

August 4, 2008

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

Re: Tronox Phase B Investigation Project #04020-023-4312
Submission # R2844538

Dear Mr. Kennedy:

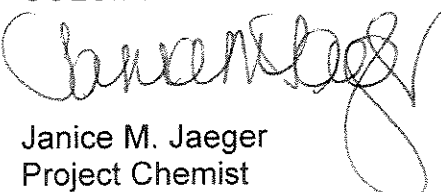
Enclosed is the analytical data report for the above referenced facility. A total of fifteen samples were received by our laboratory on June 17-24, 2008.

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.



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 # : R2844538
Project Manager : Janice Jaeger
Reported : 07/29/08

Report Contains a total of 2438 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

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

SDG NARRATIVE

CASE NARRATIVE

COMPANY: ENSR
Tronox Phase B Investigation Project #04030-023-4312
SUBMISSION #: R2844538

ENSR samples were collected on 06/16-23/08 and received at CAS on 06/17-24/08 in good condition except 1 liter amber was received broken for PB061608B and H-49AB and FB061908GWAREA1 were received at 10 C and only two of the three trip blanks were received from the samples collected 6/23/08. The client was notified and the samples were recollected for the two out of temperature samples. All Hexavalent Chromium samples were filtered in the field and then placed in sample bottles preserved with Ammonium sulfate and Sodium hydroxide.

INORGANICS

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

Site specific QC was not requested for these samples. All Blank spike recoveries were within limits.

Due to a laboratory error, Specific Conductivity for all samples and Ammonia for H-48B were analyzed outside the recommended holding time of 28 days. The samples were analyzed within 56 days.

Nitrate for H-48B was originally analyzed within 48 hours, but due to a shift in the baseline, the Nitrate analysis could not be reported. The sample was repeated outside the recommended holding time of 48 hours, but was analyzed within 56 hours.

Nitrite for H-48B, MC-66BD, MC-65B, MC-66B and PC-37B were originally analyzed within the recommended holding time of 48 hours but the Chloride peak in the samples was so large it interfered with the Nitrite peak and the samples had to be reanalyzed at dilutions. H-48B was not analyzed within 96 hours but the remainder of the samples were.

The first Laboratory Control Sample (LCS) for Total Dissolved Solids for MC-66BD, MC-65B, MC-66B and PC-37B was outside the recommended limits of 80-120%. There was limited sample for reanalysis and the reanalysis could not be performed within holding time so since all other duplicates and LCS' on the analytical run were in compliance, the data was accepted.

No other analytical or QC problems were encountered.

VOLATILE ORGANICS

Fifteen 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 not requested for these samples. All Reference spike recoveries were within Tronox limits except Acetone was outside limits low for the 06/24/08 LCS and Dichlorodifluoromethane and Tetrachloroethene were outside limits high on the 06/26/08 LCS. The outliers were within 60-140%.

The Laboratory blanks associated with these samples were free of contamination.

Various compounds for MC-62B have been flagged with an "E" as being outside the calibration range of the instrument. The samples were repeated at dilutions 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

Ten 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 except MC-66BD, MC-66B and M-94BX. The samples were repeated and again the internal standards were outside limits. All outlying internal standards have been flagged with an "**".

All surrogate standard recoveries were within limits.

Site specific QC was not requested for these samples. All Blank spike/Blank spike duplicate recoveries were within limits except Di-n-butylphthalate and Di-n-octylphthalate and Pyridine for the 06/26/08 LCS were outside limits high and 1,4-Dioxane was outside limits low on the 06/23/08 and 06/26/08 LCS/LCSD's and have been flagged with an "**". The recoveries all were within 10-150%. All RPD's were within limits.

The Laboratory Blanks associated with these analyses were free of contamination except the 06/23/08 blank contained low level hits for Butyl benzyl phthalate, Di-n-butylphthalate and Naphthalene. All affected data has been flagged with a "B".

All samples were extracted and analyzed within holding times.

No other analytical or QC problems were encountered.

PESTICIDES

Ten 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 except H-48B, the 6/19/08 and 06/25/08 Method blanks and the 6/25/08 LCS/LCSD and have been flagged with an "**". The samples were within CAS limits. All surrogates were diluted out for MC-62BDL.

All Blank spike/Blank spike duplicate recoveries were within limits except Endrin aldehyde was outside the Tronox limits low for the 06/19/08 LCS/LCSD and has been flagged with an "**". The recoveries were within CAS limits. A tert-butyl ammonium sulfate clean-up was performed on these samples which is probably the reason for the low recovery. PB061608B and PC-40B are possibly biased low for Endrin aldehyde. All RPD's were within limits.

Various compounds for PC-40B, MC-65B and MC-62B have been flagged with an "E" as being outside the calibration range of the instrument. The samples were repeated at dilutions and both sets of data have been reported out.

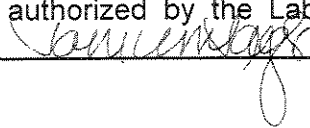
The Laboratory Blanks associated with these analyses were free of contamination.

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. 



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 $\geq 100\%$ 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



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
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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

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

Rochester, NY

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140		Project Name Tronox Phase B Investigation		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.																																																																																										
Project Manager Robert Kennedy Phone 978-589-3324 Fax 978-589-3100 Email Address for Result Reporting rkennedy@ensr.aecom.com		P.O. # / Billing Information		Analysis Method and/or Analytes		CAS Contact: Janice Jaeger																																																																																										
Sampler (Print & Sign) GALEN COOPER		Date Collected 6-16-08		Time Collected 1430		Matrix GW																																																																																										
Laboratory ID Number PB061608B		Date Collected 6-16-08		Time Collected 1430		Number of Containers 18																																																																																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Preservative Code</th> <th colspan="8">Preservative Key</th> </tr> <tr> <th>8</th> <th>0</th> <th>1</th> <th>5</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> </tr> </thead> <tbody> <tr> <td>Hexavalent Chromium (218.8)</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TPH - diesel-range organics/oil-range organics (8015B)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>VOCs (8260)</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Wet Chemistry (Except chlorate & perchlorate)</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Organochlorine Pesticides (OCPs) (8081A)</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Semi-Volatile Organics (8270C)</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Formaldehyde (8315A)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TPH - gasoline-range organics (8015B)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Preservative Code	Preservative Key								8	0	1	5	0	0	0	0	Hexavalent Chromium (218.8)	X								TPH - diesel-range organics/oil-range organics (8015B)									VOCs (8260)		X							Wet Chemistry (Except chlorate & perchlorate)		X							Organochlorine Pesticides (OCPs) (8081A)			X						Semi-Volatile Organics (8270C)				X					Formaldehyde (8315A)									TPH - gasoline-range organics (8015B)								
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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 _____
 EDD required: Yes _____
 Type: ENSR-specific _____

Relinquished by: (Signature) _____ Date: 6/16/08 Time: 1600
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____

Chain of Custody Number: 061608661-21
 Cooler / Blank / Ice / No Ice
 Temperature _____ °C

Cooler Receipt And Preservation Check Form

Project/Client ENSR Submission Number R2844538

Cooler received on 6/16/08 by: AP 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: 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: 6/16/08 10:00

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 6/17/08

Cooler Breakdown: Date: 6/17/08 by: AP

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
		YES	NO						
≥12	NaOH	<input checked="" type="checkbox"/>		WC850729	1110				
≤2	HNO ₃								
≤2	H ₂ SO ₄	<input checked="" type="checkbox"/>		WC85132D	04109				
Residual Chlorine (-)	For TCN and Phenol	<input checked="" type="checkbox"/>		If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*						

Yes = All samples OK
 No = Samples were preserved at lab as listed
 PM OK to Adjust: _____

Bottle lot numbers: 032019, 031457, 031199, BDB24846, 011708-1, 050508-1, 030682
 Other Comments:

*PB0616086 Amber broken

PC Secondary Review: JMS 6/23/08 *significant air bubbles are greater than 5-6 mm



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

Columbia Analytical Services, Inc.
 1 Mustard Street, Suite 250
 Rochester, NY 14609
 Phone (585) 289-5380

Rochester, NY

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140 Project Manager Robert Kennedy Phone 978-589-3324 Fax 978-589-3100 Email Address for Result Reporting rkennedy@ensr.aecom.com		Project Name Tronox Phase B Investigation Project Number: <u>04020-023-4312</u> P.O. # / Billing Information		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.	
Sampler (Print & Sign) <u>GAVEN COOPER</u>		Analysis Method and/or Analytes Preservative Code 8 0 1 5 0 0 0 0 TPH - diesel-range organics/oil-range organics (8015B) VOCs (8260) Vet Chemistry (Except chlorate & perchlorate) (8081A) Organochlorine Pesticides (OCPs) Semi-Volatile Organics (8270C) Formaldehyde (8315A) TPH - gasoline-range organics (8015B)		CAS Contact: Janice Jaeger		Preservative Key 0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH	
Client Sample ID <u>PC-4013</u>		Date Collected <u>6/18/08 1300 G-W</u>		Time Collected <u>1</u>		Number of Containers <u>1</u>	
Laboratory ID Number		Matrix		Remarks		Project Requirements (MRLs, QAPP) EDD required: Yes Type: ENSR-specific	
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) <u>X</u>		MRL required: Yes MDL / PQL / J required: Yes		EDD required: Yes Type: ENSR-specific		Chain of Custody Number: <u>061808621-211</u>	
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>6/16/08 1400</u>		Time: <u>9:30</u>		Cooler / Blank / Ice / No Ice	
Relinquished by (Signature) <u>[Signature]</u>		Date:		Time:		Temperature _____ °C	
Relinquished by (Signature) <u>[Signature]</u>		Date:		Time:			

Cooler Receipt And Preservation Check Form

Project/Client ENSR - Henderson Submission Number R2844538

Cooler received on 6/19/08 by: FP 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/ROO, CLIENT
7. Temperature of cooler(s) upon receipt: 4°

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: 6/19/08 @ 945

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 6/19/08

Cooler Breakdown: Date: 6/19/08 by: FP

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	✓		WC85072F	11/10		2 pellets	WC85072F	212
≤2	HNO ₃								
≤2	H ₂ SO ₄	✓		WC 85132D	04/09				
Residual Chlorine (-)	For TCN and Phenol	✓		If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*						

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 032019, 031457, 050508-1, 030682, 042808-1, BDB2684G

Other Comments: labels covering vial lots

PC Secondary Review: JMS 6/23/08

*significant air bubbles are greater than 5-6 mm



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

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

Rochester, NY

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140		Project Name Tronox Phase B Investigation Project Number: <u>04020-023-4312</u> P.O. # / Billing Information		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.
Project Manager Robert Kennedy Phone: <u>978-589-3324</u> Fax: <u>978-589-3100</u>		Sampler (Print & Sign) JALEN COOPER		Analysis Method and/or Analytes Preservative Code		CAS Contact: Janice Jaeger
Email Address for Result Reporting rkennedy@ensr.aecom.com		Date Collected 6/19/08		8 0 1 5 0 0 0 0 0 0		Preservative Key 0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH
Laboratory ID Number H-49AB3		Time Collected 1100		Hexavalent Chromium (218.9)		Remarks VOC SVOC ice - C1NO2, NO3, SO4 CN - NaOH PESTICIDES TSS - ICE Alkalinity - ICE PH - ICE TP04 / NH3 - H2S H-49AB completed TOC - H2SO4 due to temperature TRIP BLANK
Client Sample ID H-49AB3		Matrix GW		TPH - diesel-range organics/oil-range organics (8015B)		
Date Collected 6/19/08		Number of Containers 3		TPH - gasoline-range organics (6015B)		
Date Collected 6/19/08		Matrix GW		Formaldehyde (8315A)		
Date Collected 6/19/08		Matrix GW		Semi-Volatile Organics (8270C)		
Date Collected 6/19/08		Matrix GW		Organochlorine Pesticides (OCPs) (8081A)		
Date Collected 6/19/08		Matrix GW		(Except chlorate & perchlorate) Wet Chemistry (8260)		
Date Collected 6/19/08		Matrix GW		VOCs (8260)		
Date Collected 6/19/08		Matrix GW		TPH - diesel-range organics/oil-range organics (8015B)		
Date Collected 6/19/08		Matrix GW		Hexavalent Chromium (218.9)		

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 _____

Relinquished by: (Signature) _____ Date: 6/19/08 Time: 1230
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____

Chain of Custody Number: 0619086W1-1
 Cooler / Blank / Ice / No Ice
 Temperature 10 °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

Company Name & Address (Repeating Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140 Project Manager Robert Kennedy Phone 978-589-3324 Email Address for Result Reporting rkennedy@ensr.aecom.com		Project Name Tronox Phase B Investigation Project Number: <u>04020-023-4312</u> P.O. # / Billing Information		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.					
Analysis Method and/or Analytes		Preservative Code		Preservative Key							
				0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH							
Company Name & Address (Repeating Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140 Project Manager Robert Kennedy Phone 978-589-3324 Email Address for Result Reporting rkennedy@ensr.aecom.com		Project Name Tronox Phase B Investigation Project Number: <u>04020-023-4312</u> P.O. # / Billing Information		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.					
				Preservative Code							
				8 0 1 5 0 0 0 0 Hexavalent Chromium (218.5) X TPH - diesel-range organics/oil-range organics (8015B) X VOCs (8260) X Wet Chemistry (Except chlorate & perchlorate) (8081A) X Organochlorine Pesticides (OCPs) (8081A) X Semi-Volatile Organics (8270C) (8315A) X Formaldehyde (8315A) X TPH - gasoline-range organics (8015B) X							
Client Sample ID H-48B TRIP BLANK		Date Collected 6-4-08 6-6-08		Time Collected 1030 935		Matrix WATER WATER		Number of Containers 18 3		Remarks	
Relinquished by: (Signature) <i>[Signature]</i>		Date: 6/1/08 Time: 1600		Received by: (Signature) <i>[Signature]</i>		Date: 6/20/08 Time: 9:30		Chain of Custody Number: 0619086WA-1		Temperature <u>3</u> °C	
Relinquished by: (Signature) <i>[Signature]</i>		Date: Time:		Received by: (Signature) <i>[Signature]</i>		Date: Time:		Project Requirements (MRLs, QAPP) (See Contractual Specifications)		Project Requirements (MRLs, QAPP) (See Contractual Specifications)	
Relinquished by: (Signature) <i>[Signature]</i>		Date: Time:		Received by: (Signature) <i>[Signature]</i>		Date: Time:		Project Requirements (MRLs, QAPP) (See Contractual Specifications)		Project Requirements (MRLs, QAPP) (See Contractual Specifications)	



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.

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes										Preservative Key	Remarks	
ENSR 2 Technology Park Drive Westford, MA 01886-3140		Tronox Phase B Investigation Project Number: <u>04020-023-4312</u>		Project Number: <u>04020-023-4312</u>		P.O. # / Billing Information		Project Name: <u>04020-023-4312</u>		P.O. # / Billing Information		Preservative Code		Preservative Key		Remarks
Project Manager Robert Kennedy Phone <u>978-589-3324</u> Email Address for Result Reporting <u>rkennedy@ensr.aecom.com</u>		Laboratory ID Number <u>FBO6190866</u>		Date Collected <u>6/19/08 1400</u>		Matrix <u>W</u>		Time Collected <u>1400</u>		Number of Containers <u>1</u>		Hexavalent Chromium (218B) TPH - diesel-range organics/oil-range organics (8015B) VOCs (8260) Wet Chemistry (except chlorate & perchlorate) (6081A) Organochlorine Pesticides (OCPs) (8270C) Semi-Volatile Organics (8315A) Formaldehyde (8015B) TPH - gasoline-range organics (8015B)		0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH		
Sampler (Print & Sign) <u>GALEN COOPER</u>																
Project Requirements (MRLs, QAPP) (See Contractual Specifications) Chain of Custody Number: <u>FBO6190866</u>																
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) <u>X</u>																
Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>6/19/08</u>		Time: <u>1400</u>		Received by: (Signature) <u>[Signature]</u>		Date: <u>6/20/08</u>		Time: <u>9:30</u>		EDD required: Yes Type: ENSR-specific				
Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>6/19/08</u>		Time: <u>1400</u>		Received by: (Signature) <u>[Signature]</u>		Date: <u>6/20/08</u>		Time: <u>9:30</u>		Chain of Custody Number: <u>FBO6190866</u>				
Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>6/19/08</u>		Time: <u>1400</u>		Received by: (Signature) <u>[Signature]</u>		Date: <u>6/20/08</u>		Time: <u>9:30</u>		Cooler / Blank / Ice / No ice <u>10</u>				
Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>6/19/08</u>		Time: <u>1400</u>		Received by: (Signature) <u>[Signature]</u>		Date: <u>6/20/08</u>		Time: <u>9:30</u>		Temperature <u>10</u> °C				

Cooler Receipt And Preservation Check Form

Project/Client ENSR Submission Number R2844538

Cooler received on 6/20/08 by: AUT 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: * 10° 3°

all the ice melted

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: 6/20/08 9:57

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: H-49AB &

PC Secondary Review: _____

FB061908 GWarca 1 cancelled due to

Cooler Breakdown: Date: 6/20/08 by: H

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO *temperature*
2. Did all bottle labels and tags agree with custody papers? YES NO *SMJ 6/20/08*
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			Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
		YES	NO						
≥12	NaOH			WC85011C	11/09	1110981	2 pellets	WC850729	≤12
≤2	HNO ₃								
≤2	H ₂ SO ₄			WC85132D	04/09				
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*	208 label covering lot					

Yes = All samples OK
 - PH not in range
 No = Samples were preserved at lab as listed
 PM OK to Adjust:

Bottle lot numbers: 050508-1, 031199, 031457, 030682, 050508-2

Other Comments: * location H-49AB + FB061908 GWarca 1

PC Secondary Review: SMJ 6/23/08

*significant air bubbles are greater than 5-6 mm



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

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

Rochester, NY

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140 Project Manager Robert Kennedy Phone 978-589-3324 Fax 978-589-3100 Email Address for Result Reporting rkennedy@ensr.aecom.com		Project Name Tronox Phase B Investigation Project Number: 04020-023-4312 P.O. # / Billing Information		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	
Analysis Method and/or Analytes							
		Preservative Code					
8	0	1	5	0	0	0	0
Hexavalent Chromium (218.9)	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)
X	X	X	X	X	X	X	X
1	0	0	0	0	0	0	0
Preservative Key 0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH							
Client Sample ID MC-66BD MC-66BD MC-66BD MC-66BD MC-66BD MC-66BD TRIP BLANK		Date Collected 6-20-08 ↓ ↓ ↓ ↓ 6-6-08	Time Collected 1200 ↓ ↓ ↓ ↓ 0935	Matrix W W W W W W W	Number of Containers 1 1 1 1 1 1 3	Remarks TSS 3 TOT ORGANIC CARBON ↓ PH 0 CI, NO ₃ , NO ₂ , SO ₄ 0 MBA	
Project Requirements (MRLs, QAPP) (See Contractual Specifications) Chain of Custody Number: 062008662-1 Cooler / Blank / Ice / No Ice Temperature 23 °C							

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

Received by: (Signature) *[Signature]* Date: **6-20-08** Time: **1600**
 Received by: (Signature) *[Signature]* Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____



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

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

Rochester, NY

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.

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140		Project Name Tronox Phase B Investigation Project Number: <u>04020-023-4312</u>		Requested Turnaround Time 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		CAS Project No.									
Project Manager Robert Kennedy Phone: <u>978-589-3324</u> Fax: <u>978-589-3100</u>		P.O. # / Billing Information		CAS Contact: Janice Jaeger		Preservative Key 0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH									
Sampler (Print & Sign) <u>ROBERT RINKS Robert Rinks</u>		Analysis Method and/or Analytes		Preservative Code		Remarks									
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Hexavalent Chromium (218.9)	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	
MC-66B		6-20-08	1050	W	1			X						0	
MC-66B				W	1			X						1	
MC-66B				W	1			X						2	
MC-66B				W	1			X						3	
MC-66B				W	1			X						4	
MC-66B				W	1			X						5	
MC-66B				W	1			X						6	
MC-66B				W	1			X						7	
MC-66B				W	1			X						8	
MC-66B				W	1			X						Other	
MC-66B				W	1			X						buffer + NaOH	
MC-66B				W	1			X						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) <u>X</u>														Project Requirements (MRLs, GAPP)	
Relinquished by: (Signature) <u>Robert Rinks</u>														Chain of Custody Number: <u>06200802-1</u>	
Relinquished by: (Signature) <u>Robert Rinks</u>														Cooler / Blank / Ice / No Ice	
Relinquished by: (Signature)														Temperature <u>23</u> °C	

Received by: (Signature)
Robert Rinks
 Date: 6-20-08 Time: 1600

Received by: (Signature)
 Date: _____ Time: _____

Received by: (Signature)
 Date: _____ Time: _____

EDD required: Yes
 Type: ENSR-specific

MRL required: Yes
 MDL/PQL / I required: Yes



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

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

Rochester, NY

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

Company Name & Address (Reporting Information) _____ CAS Project No. _____
 Project Name _____ CAS Contact: Janice Jaeger

ENSR
 2 Technology Park Drive
 Westford, MA 01886-3140

Project Manager
Robert Kennedy

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

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

Sampler (Print & Sign)
Robert Piro Robert Link

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Preservative Code								Preservative Key	Remarks
						8	0	1	5	0	0	0	0		
MC-66B		6-20-08	1050	W	1	Hexavalent Chromium (218.9)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Vet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	0	TSS
MC-66B				W	1									0	Tot Organic Carbon
MC-66B				W	1									0	
MC-66B				W	1									0	
MC-66B				W	1									0	PH
MC-66B				W	1									0	Cl, NO ₃ , NO ₂ , SO ₄ , BF ₃ , TDS
MC-66B				W	1									0	MBA (Surfactants)
TRIP BLANK		6-6-08	0935	W	3			X					X		

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 _____

Chain of Custody Number: **06200862-1**
 Cooler / Blank / Ice / No Ice _____
 Temperature **23** °C

Relinquished by: (Signature) **Robert Link**
 Relinquished by: (Signature) _____
 Relinquished by: (Signature) _____

Received by: (Signature) _____
 Received by: (Signature) _____
 Received by: (Signature) _____

Date: **6-20-08** Time: **1600**
 Date: _____ Time: _____
 Date: _____ Time: _____

Cooler Receipt And Preservation Check Form

Project/Client ENSR Submission Number R28-44538

Cooler received on 6-21-08 by: KZ 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/ROE CLIENT
 7. Temperature of cooler(s) upon receipt: 3rd 2nd 3rd 2nd
- Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below

Date/Time Temperatures Taken: No No No No No
6-21-08 @ 9:43

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 6/23/08

Cooler Breakdown: Date: 6/23/08 by: JMC

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	<u>X</u>		<u>W6850726</u>	<u>11/10</u>				
≤2	HNO ₃								
≤2	H ₂ SO ₄	<u>X</u>		<u>W685132D</u>	<u>04/09</u>				
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*	<u>7647-01-0</u>	<u>04/09</u>				

Yes = All samples OK
 No = Samples were preserved at lab as listed
 PM OK to Adjust: _____

Bottle lot numbers: 050508-2, 042808-2, 050508-1,

Other Comments: _____

PC Secondary Review: JMS 6/25/08 *significant air bubbles are greater than 5-6 mm



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

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140 Phone: 978-589-3324 Fax: 978-589-3100 Email Address for Result Reporting: rkennedy@ensr.aecom.com		Project Name Tronox Phase B Investigation Project Number: 04020-023-4312 P.O. # / Billing Information		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.																																																																																																																						
Project Manager Robert Kennedy Phone: 978-589-3324 Fax: 978-589-3100 Email Address for Result Reporting: rkennedy@ensr.aecom.com		Sampler (Print & Sign) Robert Pinks		Analysis Method and/or Analytes		CAS Contact: Janice Jaeger																																																																																																																						
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="8">Preservative Code</th> <th rowspan="2">Preservative Key</th> <th rowspan="2">Remarks</th> </tr> <tr> <th>8</th> <th>0</th> <th>1</th> <th>5</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> </tr> <tr> <td>Hexavalent Chromium (218)</td> <td>TPH - diesel-range organics/oil-range organics (8015B)</td> <td>VOCs (8260)</td> <td>Wet Chemistry (Except chlorate & perchlorate)</td> <td>Organochlorine Pesticides (OCPs) (8081A)</td> <td>Semi-Volatile Organics (8270C)</td> <td>Formaldehyde (8315A)</td> <td>TPH - gasoline-range organics (8015B)</td> <td>0 None</td> <td></td> </tr> <tr> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>1 HCL</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>2 HNO₃</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3 H₂SO₄</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4 NaOH</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5 various</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6 Asc Acid</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7 Other</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8 buffer + NaOH</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Preservative Code								Preservative Key	Remarks	8	0	1	5	0	0	0	0	Hexavalent Chromium (218)	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)	0 None				X			X			1 HCL							X			2 HNO ₃										3 H ₂ SO ₄										4 NaOH										5 various										6 Asc Acid										7 Other										8 buffer + NaOH											
Preservative Code								Preservative Key	Remarks																																																																																																																			
8	0	1	5	0	0		0			0																																																																																																																		
Hexavalent Chromium (218)	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)	0 None																																																																																																																			
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PC-72B		6/23/08	1340	W	1																																																																																																																							
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PC-72B		6/23/08	1340	W	1																																																																																																																							
PC-72B		6/23/08	1340	W	1																																																																																																																							
PC-72B		6/23/08	1340	W	3																																																																																																																							

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)

Chain of Custody Number:

0623088GW2-1

Cooler / Blank / Ice / No Ice
 Temperature: 3 °C

Relinquished by: (Signature)

Date: 6/23/08 1600

Time: 1600

Received by: (Signature)

Date: 6/24/08

Time: 935

Received by: (Signature)

Date: _____

Time: _____

Received by: (Signature)

Date: _____

Time: _____

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**

Analysis Method and/or Analytes										Preservative Key	Remarks
Preservative Code											
8	0	1	5	0	0	0	0	0	0	0	0
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)											

Project Name
 Tronox Phase B Investigation

Project Number: 04020-023-4312

P.O. # / Billing Information

Company Name & Address (Reporting Information)

Project Manager
 Robert Kennedy
 Phone: 978-589-3324
 Fax: 978-589-3100
 Email Address for Result Reporting: rkennedy@ensr.aecom.com

Sampler (Print & Sign)
 Robert Pinkis Robert Pinkis

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	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
PC-72B		6/23/08	1340	W	1			X					0	PH
PC-72B		6/23/08	1340	W	1			X					0	Cl, NO3, NO2, SO4, Ba, IDS
PC-72B		6/23/08	1340	W	1			X					0	MBA
TRIP BLANK		6/23/08	1340	W	3		X						1	

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 _____

Chain of Custody Number: 0625089w2-1

Cooler / Blank / Ice / No Ice _____

Temperature 3 °C

Relinquished by: (Signature)
 Robert Pinkis

Relinquished by: (Signature)
 Robert Pinkis

Relinquished by: (Signature)
 Robert Pinkis

Date: 6/23/08 1600

Time: 1600

Received by: (Signature)
 Holly West

Received by: (Signature)
 CAS

Date: 6/24/08

Time: 9:35

Cooler Receipt And Preservation Check Form

Project/Client ENSR (Henderson) Submission Number R-44538

Cooler received on 6/24/08 by: IF 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/ROG~~, CLIENT
 7. Temperature of cooler(s) upon receipt: 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: 6/24/08 955

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 6/24/08

Cooler Breakdown: Date: 6/24/08 by: IF

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
		YES	NO						
≥12	NaOH	✓		WC85072G	11/10				
≤2	HNO ₃								
≤2	H ₂ SO ₄	✓		WC85132D	4/09				
Residual Chlorine (-)	For TCN and Phenol	-		If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*	7647-01-01	4/09				

Yes = All samples OK
 No = Samples were preserved at lab as listed
 PM OK to Adjust: _____

Bottle lot numbers: 032019, 050568-2, 110507-1
 Other Comments: _____

PC Secondary Review: JMS 6/25/08 *significant air bubbles are greater than 5-6 mm



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

Rochester, NY

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 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.

Company Name & Address (Reporting Information) ENSR 2 Technology Park Drive Westford, MA 01886-3140 Project Manager Robert Kennedy Phone 978-589-3324 Fax 978-589-3100 Email Address for Result Reporting rkennedy@ensr.aecom.com		Project Name Tronox Phase B Investigation Project Number: 04020-023-4312 P.O. # / Billing Information		CAS Contact: Janice Jaeger		Analysis Method and/or Analytes Preservative Code 8 0 1 5 0 0 0 0 0 0 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) Hexavalent Chromium (2186)		Preservative Key 0 None 1 HCL 2 HNO ₃ 3 H ₂ SO ₄ 4 NaOH 5 various 6 Asc Acid 7 Other 8 buffer + NaOH					
Sampler (Print & Sign) GAVEN COOPER / <i>[Signature]</i>		Number of Containers 3 1 1 1 1 1 1 1 3		Matrix W W W W W W W W W		Time Collected 1200 1200 1200 1200 1200 1200 1200 1200 1200		Date Collected 6/23/08 6/23/08 6/23/08 6/23/08 6/23/08 6/23/08 6/23/08 6/23/08 6/23/08 6/23/08		Laboratory ID Number M-94B M-94B M-94B M-94B M-94B M-94B M-94B M-94B M-94B M-94B		Remarks PRESERVATIVE KEY 1 0 0 0 0 0 8 3 4 0 3 AUKY (TOT. CO ₂ , HCCO ₃) NH ₃ , TPO ₄ CYANIDE TSS TOC	
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) <u>X</u>		MDL / PQL / J required: Yes MRL required: Yes EDD required: Yes Type: ENSR-specific Date: 6/24/08 Time: 4:35		Chain of Custody Number: 0623086W1-1 Cooler / Blank / Ice / No Ice Temperature <u>3</u> °C		Project Requirements (MRLs, QAPP) Relinquished by: (Signature) <i>[Signature]</i> Date: 6/24/08 Time: 12:00 Relinquished by: (Signature) <i>[Signature]</i> Date: 6/24/08 Time: 12:00 Relinquished by: (Signature) <i>[Signature]</i> Date: 6/24/08 Time: 12:00							

Cooler Receipt And Preservation Check Form

Project/Client ENSR (Henderson) Submission Number 244538

Cooler received on 6/24/08 by: IP 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: 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: 6/24/08 1025

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 6/24/08

Cooler Breakdown: Date: 6/24/08 by: [Signature]

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			Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
		YES	NO						
≥12	NaOH	✓							
≤2	HNO ₃								
≤2	H ₂ SO ₄	✓							
Residual Chlorine (-)	For TCN and Phenol	-		If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-						
	Zn Aceta	-	-						
	HCl	*	*	7647-01-0	4/09				

Yes = All samples OK
 No = Samples were preserved at lab as listed
 PM OK to Adjust: _____

Bottle lot numbers: 032019, 050508-2, 110507-1

Other Comments: _____

PC Secondary Review: JMS 6/27/08

*significant air bubbles are greater than 5-6 mm

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

Rochester, NY

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 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**

Analysis Method and/or Analytes										Preservative Code	Preservative Key	Remarks
8	0	1	5	0	0	0	0	0	0			
Hexavalent Chromium (218.9)												
TPH - diesel-range organics/oil-range organics (8015B)												
VOCs (8260)	X											
Wet Chemistry (Except chlorate & perchlorate)												
Organochlorine Pesticides (OCPs) (8081A)												
Semi-Volatile Organics (8270C)												
Formaldehyde (8315A)												
TPH - gasoline-range organics (8015B)												

Company Name & Address (Reporting Information)

Project Name: **Tronox Phase B Investigation**

Project Number: **04070-023-4312**

P.O. # / Billing Information: _____

Project Manager
Robert Kennedy

Phone: _____ Fax: **978-589-3100**

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

Sampler (Print & Sign): _____

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers
MC-62B		6/23/08	1030	W	3
MC-62B		6/23/08	1030	W	1
MC-62B		6/23/08	1030	W	1
MC-62B		6/23/08	1030	W	1
MC-62B		6/23/08	1030	W	1
MC-62B		6/23/08	1030	W	1
MC-62B		6/23/08	1030	W	1
MC-62B		6/23/08	1030	W	1
MC-62B		6/23/08	1030	W	1
MC-62B		6/23/08	1030	W	3

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 _____

Chain of Custody Number: **062308QW2-1**

Cooler / Blank / Ice / No Ice: **3**

Temperature: **3** °C

Cooler Receipt And Preservation Check Form

Project/Client ENSR (Henderson) Submission Number R2-44538

Cooler received on 6/24/08 by: IP 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: 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: 6/24/08 1607

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 6/24/08

Cooler Breakdown: Date: 6/24/08 by: RJ

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	Yes = All samples OK
		YES	NO							
≥12	NaOH	✓								No = Samples were preserved at lab as listed
≤2	HNO ₃									
≤2	H ₂ SO ₄	✓								
Residual Chlorine (-)	For TCN and Phenol	—		If present, contact PM to add ascorbic acid						
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet				PM OK to Adjust:
	Zn Aceta	-	-							
	HCl	*	*							

Bottle lot numbers: 032019, 050508-2, 110507-1

Other Comments: _____

PC Secondary Review: JMS 6/27/08

*significant air bubbles are greater than 5-6 mm

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Lab ID: 1109708 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/17/2008

Container: 11097081

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/23/08 8:54	kreynold	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/23/08 17:27	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 16:14	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:32	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 110970810

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/19/08 8:34	rpawl	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/19/08 16:12	rpawl	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/15/08 7:36	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 110970811

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/24/08 8:33	srobinso	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 13:40	srobinso	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 11:19	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 14:38	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/15/08 7:36	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 110970812

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/24/08 15:58	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/24/08 16:03	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 110970813

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/20/08 14:19	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/20/08 15:38	tchrist	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/28/08 13:41	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 13:52	tchrist	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 11097082

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/19/08 10:13	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/19/08 16:18	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/15/08 7:36	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11097083

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/18/08 8:34	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/18/08 13:53	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/15/08 7:36	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11097084

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/15/08 7:36	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11097085

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/19/08 11:34	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11097086

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Container: 11097087

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 10:22	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:05	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/14/08 16:56	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/22/08 19:05	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 11097088

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/23/08 7:36	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11097089

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/17/08 15:28	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/17/08 19:37	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/15/08 7:36	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Lab ID: 1110532 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/19/2008

Container: 11105321

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 10:22	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/14/08 16:56	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/21/08 7:37	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111053210

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/24/08 15:58	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/24/08 16:03	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Container: 111053211

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/28/08 13:42	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 13:52	tchrist	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111053212

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/24/08 8:34	srobinso	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 13:40	srobinso	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:06	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 14:36	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/15/08 7:36	gesmeria	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 111053213

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 8:02	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:30	rpawl	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:38	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111053214

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/19/08 13:31	hpundt	Sample Management	Cooler 2	Analysis	<input type="checkbox"/>
06/19/08 15:11	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:38	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11105322

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/20/08 14:59	cwoods	Wet Chemistry	Dumpster	Disposal	<input checked="" type="checkbox"/>

Container: 11105323

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/23/08 8:35	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/23/08 16:24	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11105324

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/23/08 17:27	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 16:14	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:38	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11105325

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Container: 11105326

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/19/08 13:50	dmurphy	Organic Extractions	Analyst	Analysis	<input type="checkbox"/>

Container: 11105327

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/23/08 7:36	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11105328

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11105329

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/19/08 13:29	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/19/08 14:26	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/19/08 15:59	tchrist	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/24/08 12:07	bbowe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 15:47	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 15:23	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:32	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Lab ID: 1110981 Matrix WATER

Received into CAS-Rochester Custody: 6/20/2008

Container: 11109811

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 8:03	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:30	rpawl	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:38	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111098110

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/23/08 17:28	kreynold	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 16:14	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:38	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111098111

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/28/08 13:42	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 13:52	tchrist	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111098112

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/24/08 15:58	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/24/08 16:03	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Container: 111098113

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 14:59	cwoods	Wet Chemistry	Dumpster	Disposal	<input checked="" type="checkbox"/>

Container: 111098114

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:41	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/20/08 13:48	hpundt	Sample Management	Cooler 2	Analysis	<input type="checkbox"/>
07/21/08 7:39	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 11109812

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 10:22	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:05	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/14/08 16:56	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/21/08 7:37	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11109813

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11109814

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/25/08 7:20	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11109815

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11109816

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/23/08 7:36	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11109817

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/24/08 8:34	srobinso	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/21/08 7:39	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>
07/24/08 7:55	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/24/08 14:19	rpawl	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Container: 11109818

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/23/08 8:35	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/23/08 16:24	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11109819

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/20/08 15:44	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/20/08 15:51	tchrist	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/23/08 16:12	tchrist	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/24/08 9:04	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 15:48	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 15:23	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:32	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/11/08 17:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/11/08 18:09	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Lab ID: 1110982 **Matrix** WATER

Received into CAS-Rochester Custody: 6/20/2008

Container: 11109821

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/20/08 13:40	hpundt	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/24/08 15:58	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/24/08 16:03	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Lab ID: 1111264 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/21/2008

Container: 11112641

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/25/08 7:20	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111126410

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:42	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111126411

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:07	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/24/08 15:58	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/24/08 16:03	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Container: 111126412

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/28/08 13:42	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 13:53	tchrist	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111126413

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 10:22	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/14/08 16:56	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/21/08 7:37	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 111126414

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 9:04	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 15:48	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 15:23	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:32	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:54	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11112642

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/26/08 7:41	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11112643

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11112644

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11112645

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 8:50	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:15	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11112646

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/23/08 13:10	kcook	Sample Management	Dumpster	Disposal	<input checked="" type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 11112647

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 11:16	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/02/08 8:05	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/02/08 13:08	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11112648

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/24/08 8:34	srobinso	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 13:40	srobinso	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:06	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 14:36	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11112649

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 17:45	hiovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hiovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Lab ID: 1111265 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/21/2008

Container: 11112651

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 9:04	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 15:48	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 15:23	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:41	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111126510

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/24/08 8:34	srobinso	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 13:40	srobinso	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:06	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 14:36	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111126511

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 17:45	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:37	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111126512

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 111126513

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/28/08 13:42	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 13:53	tchrist	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111126514

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:07	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/24/08 15:58	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/24/08 16:03	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Container: 11112652

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 10:22	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/14/08 16:56	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/21/08 7:37	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11112653

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/25/08 7:20	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11112654

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 8:43	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11112655

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/26/08 7:41	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 11112656

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11112657

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 8:50	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:15	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11112658

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/23/08 13:10	kcook	Sample Management	Dumpster	Disposal	<input checked="" type="checkbox"/>

Container: 11112659

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 11:16	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Lab ID: 1111266 Matrix WATER

Received into CAS-Rochester Custody: 6/21/2008

Container: 11112661

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 9:04	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 15:48	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 15:23	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:41	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111126610

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/23/08 13:10	kcook	Sample Management	Dumpster	Disposal	<input checked="" type="checkbox"/>

Container: 111126611

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/24/08 8:34	srobinso	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 13:40	srobinso	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:06	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 14:36	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111126612

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 17:45	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:37	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 111126613

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/28/08 13:42	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 13:53	tchrist	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 111126614

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:07	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/24/08 15:58	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/24/08 16:03	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Container: 11112662

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 10:23	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/14/08 16:56	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/21/08 7:37	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11112663

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:42	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11112664

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/26/08 7:41	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11112665

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/25/08 7:20	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Container: 11112666

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11112667

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 8:43	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11112668

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 8:50	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:15	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11112669

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 11:16	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Lab ID: 1111267 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/21/2008

Container: 11112671

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 9:04	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 15:48	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 15:23	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:41	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/15/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>

Container: 111126710

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 11:16	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111126711

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/23/08 13:10	kcook	Sample Management	Dumpster	Disposal	<input checked="" type="checkbox"/>

Container: 111126712

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 8:50	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:15	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111126713

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:07	kcook	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/24/08 15:58	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/24/08 16:03	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 111126714

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/28/08 13:42	tchrist	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/28/08 13:53	tchrist	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 11112672

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/25/08 10:23	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/14/08 16:56	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/21/08 7:37	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11112673

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11112674

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11112675

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/25/08 7:20	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11112676

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:09	kcook	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/26/08 7:41	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 11112677

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Container: 11112678

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 17:45	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11112679

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/23/08 13:08	kcook	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/24/08 8:34	srobinso	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/24/08 13:40	srobinso	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:06	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 14:36	nmead	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Lab ID: 1111268 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/21/2008

Container: 11112681

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 15:58	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/24/08 16:03	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Lab ID: 1111269 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/21/2008

Container: 11112691

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 15:58	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/24/08 16:03	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Lab ID: 1111763 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/24/2008

Container: 11117631

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>

Container: 111176310

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 10:36	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 18:13	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:08	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111176311

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/26/08 15:37	dmurphy	Organic Extractions	Cooler 3	Storage	<input type="checkbox"/>

Container: 111176312

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/26/08 7:41	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111176313

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/25/08 7:19	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111176314

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11117632

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:06	rjones	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/25/08 15:04	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/25/08 17:14	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 11117633

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 16:14	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117634

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 9:53	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 17:15	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:41	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117635

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:07	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117636

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:06	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 15:46	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 11117637

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 10:22	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/14/08 16:56	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/21/08 7:37	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117638

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 11:16	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:08	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117639

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:08	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Lab ID: 1111764 Matrix WATER

Received into CAS-Rochester Custody: 6/24/2008

Container: 11117641

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>

Container: 111176410

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/26/08 7:41	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111176411

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111176412

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111176413

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/25/08 7:19	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111176414

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:08	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117642

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:06	rjones	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/25/08 15:04	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/25/08 17:14	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 11117643

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 16:14	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117644

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 9:53	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 17:15	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:41	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117645

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:06	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 15:46	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Container: 11117646

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 10:22	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/14/08 16:56	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/21/08 7:37	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Container: 11117647

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 11:16	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:08	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117648

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:08	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117649

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 10:36	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 18:13	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:08	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Lab ID: 1111765 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/24/2008

Container: 11117651

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:06	rjones	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/25/08 15:04	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/25/08 17:15	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>
06/26/08 16:09	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/26/08 16:10	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Container: 111176510

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 10:36	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 18:13	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:08	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 111176511

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/25/08 7:19	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111176512

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/26/08 7:41	dmurphy	Organic Extractions	Analyst	Analysis	<input checked="" type="checkbox"/>

Container: 111176513

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 111176514

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:08	rjones	Sample Management	Cooler 3	Storage	<input type="checkbox"/>

Container: 11117652

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 Client: ENSR International

Container: 11117653

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:07	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117654

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/26/08 9:53	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/26/08 17:15	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/03/08 12:50	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:41	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/10/08 22:31	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/10/08 22:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117655

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 16:14	hlovejoy	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 18:55	hlovejoy	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/08/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/08/08 19:43	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/21/08 7:43	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117656

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/27/08 8:06	nmead	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/27/08 15:46	bbowe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Container: 11117657

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/25/08 10:22	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/25/08 15:53	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 17:04	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 17:27	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 14:43	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 20:34	cwoods	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/14/08 16:56	cwoods	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/21/08 7:37	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117658

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
06/30/08 7:50	gnita-jo	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
06/30/08 11:16	gnita-jo	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:08	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Container: 11117659

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:07	rjones	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/23/08 8:08	hpundt	Wet Chemistry	LTS	Storage	<input type="checkbox"/>

Lab ID: 1111767 **Matrix** WATER

Received into CAS-Rochester Custody: 6/24/2008

Container: 11117671

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:06	rjones	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/25/08 15:04	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/25/08 17:15	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844538 **Client:** ENSR International

Lab ID: 1111768 **Matrix:** WATER

Received into CAS-Rochester Custody: 6/24/2008

Container: 11117681

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/24/08 18:06	rjones	Sample Management	Cooler 1	Storage	<input type="checkbox"/>
06/25/08 15:04	rherring	GC/MS Volatiles	Cooler 1	Analysis	<input type="checkbox"/>
06/25/08 17:15	rherring	GC/MS Volatiles	Cooler 1 - S07	Storage	<input type="checkbox"/>

VOLATILE ORGANICS

QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1117312 ANALYTICAL RUN #: 163912

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/24/08		
ANALYTICAL DILUTION:	1.0		
ACETONE	20.0	66 *	75 - 125
BENZENE	20.0	111	75 - 125
BROMOBENZENE	20.0	110	75 - 125
BROMOCHLOROMETHANE	20.0	104	75 - 125
BROMODICHLOROMETHANE	20.0	96	75 - 125
BROMOFORM	20.0	104	75 - 125
BROMOMETHANE	20.0	82	75 - 125
2-BUTANONE (MEK)	20.0	78	75 - 125
TERT-BUTYL ALCOHOL	400	95	75 - 125
METHYL-TERT-BUTYL ETHER	20.0	90	75 - 125
ETHYL-TERT-BUTYL ETHER	20.0	95	75 - 125
TERT-BUTYLBENZENE	20.0	103	75 - 125
SEC-BUTYLBENZENE	20.0	110	75 - 125
N-BUTYLBENZENE	20.0	108	75 - 125
CARBON TETRACHLORIDE	20.0	85	75 - 125
CHLOROBENZENE	20.0	110	75 - 125
CHLOROETHANE	20.0	88	75 - 125
CHLOROFORM	20.0	95	75 - 125
CHLOROMETHANE	20.0	105	75 - 125
1,2-DIBROMO-3-CHLOROPROPANE	20.0	98	75 - 125
2-CHLOROTOLUENE	20.0	94	75 - 125
4-CHLOROTOLUENE	20.0	103	75 - 125
DIBROMOCHLOROMETHANE	20.0	96	75 - 125
1,2-DIBROMOETHANE	20.0	95	75 - 125
DIBROMOMETHANE	20.0	93	75 - 125
1,2-DICHLOROBENZENE	20.0	110	75 - 125
1,4-DICHLOROBENZENE	20.0	111	75 - 125
1,3-DICHLOROBENZENE	20.0	112	75 - 125
DICHLORODIFLUOROMETHANE	20.0	116	75 - 125
1,1-DICHLOROETHANE	20.0	95	75 - 125
1,2-DICHLOROETHANE	20.0	90	75 - 125
1,1-DICHLOROETHENE	20.0	97	75 - 125
TRANS-1,2-DICHLOROETHENE	20.0	95	75 - 125
CIS-1,2-DICHLOROETHENE	20.0	97	75 - 125
2,2-DICHLOROPROPANE	20.0	91	75 - 125
1,2-DICHLOROPROPANE	20.0	108	75 - 125
1,3-DICHLOROPROPANE	20.0	96	75 - 125
1,1-DICHLOROPROPENE	20.0	109	75 - 125
TRANS-1,3-DICHLOROPROPENE	20.0	92	75 - 125
CIS-1,3-DICHLOROPROPENE	20.0	108	75 - 125
ETHYLBENZENE	20.0	110	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1117312

ANALYTICAL RUN #: 163912

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/24/08		
ANALYTICAL DILUTION:	1.0		
HEXACHLOROBUTADIENE	20.0	104	75 - 125
2-HEXANONE	20.0	79	75 - 125
DI-ISOPROPYL ETHER	20.0	93	75 - 125
ISOPROPYLBENZENE	20.0	113	75 - 125
P-ISOPROPYLTOLUENE	20.0	107	75 - 125
TERT-AMYL-METHYL ETHER	20.0	100	75 - 125
METHYLENE CHLORIDE	20.0	94	75 - 125
NAPHTHALENE	20.0	105	75 - 125
4-METHYL-2-PENTANONE	20.0	81	75 - 125
N-PROPYLBENZENE	20.0	100	75 - 125
STYRENE	20.0	113	75 - 125
1,1,1,2-TETRACHLOROETHANE	20.0	103	75 - 125
1,1,2,2-TETRACHLOROETHANE	20.0	97	75 - 125
TETRACHLOROETHENE	20.0	118	75 - 125
TOLUENE	20.0	107	75 - 125
1,2,4-TRICHLOROBENZENE	20.0	113	75 - 125
1,2,3-TRICHLOROBENZENE	20.0	116	75 - 125
1,1,1-TRICHLOROETHANE	20.0	86	75 - 125
1,1,2-TRICHLOROETHANE	20.0	99	75 - 125
TRICHLOROETHENE	20.0	106	75 - 125
TRICHLOROFLUOROMETHANE	20.0	84	75 - 125
1,2,3-TRICHLOROPROPANE	20.0	81	75 - 125
1,3,5-TRIMETHYLBENZENE	20.0	98	75 - 125
1,2,4-TRIMETHYLBENZENE	20.0	104	75 - 125
VINYL CHLORIDE	20.0	96	75 - 125
M+P-XYLENE	40.0	111	75 - 125
O-XYLENE	20.0	115	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1117316 ANALYTICAL RUN #: 163914

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/25/08		
ANALYTICAL DILUTION:	1.0		
ACETONE	20.0	77	75 - 125
BENZENE	20.0	115	75 - 125
BROMOBENZENE	20.0	113	75 - 125
BROMOCHLOROMETHANE	20.0	103	75 - 125
BROMODICHLOROMETHANE	20.0	97	75 - 125
BROMOFORM	20.0	109	75 - 125
BROMOMETHANE	20.0	85	75 - 125
2-BUTANONE (MEK)	20.0	87	75 - 125
TERT-BUTYL ALCOHOL	400	94	75 - 125
METHYL-TERT-BUTYL ETHER	20.0	92	75 - 125
ETHYL-TERT-BUTYL ETHER	20.0	96	75 - 125
TERT-BUTYLBENZENE	20.0	105	75 - 125
SEC-BUTYLBENZENE	20.0	112	75 - 125
N-BUTYLBENZENE	20.0	109	75 - 125
CARBON TETRACHLORIDE	20.0	87	75 - 125
CHLOROBENZENE	20.0	112	75 - 125
CHLOROETHANE	20.0	90	75 - 125
CHLOROFORM	20.0	96	75 - 125
CHLOROMETHANE	20.0	108	75 - 125
1,2-DIBROMO-3-CHLOROPROPANE	20.0	95	75 - 125
2-CHLOROTOLUENE	20.0	97	75 - 125
4-CHLOROTOLUENE	20.0	96	75 - 125
DIBROMOCHLOROMETHANE	20.0	99	75 - 125
1,2-DIBROMOETHANE	20.0	98	75 - 125
DIBROMOMETHANE	20.0	97	75 - 125
1,2-DICHLOROBENZENE	20.0	111	75 - 125
1,4-DICHLOROBENZENE	20.0	111	75 - 125
1,3-DICHLOROBENZENE	20.0	114	75 - 125
DICHLORODIFLUOROMETHANE	20.0	121	75 - 125
1,1-DICHLOROETHANE	20.0	96	75 - 125
1,2-DICHLOROETHANE	20.0	94	75 - 125
1,1-DICHLOROETHENE	20.0	99	75 - 125
TRANS-1,2-DICHLOROETHENE	20.0	96	75 - 125
CIS-1,2-DICHLOROETHENE	20.0	100	75 - 125
2,2-DICHLOROPROPANE	20.0	93	75 - 125
1,2-DICHLOROPROPANE	20.0	109	75 - 125
1,3-DICHLOROPROPANE	20.0	96	75 - 125
1,1-DICHLOROPROPENE	20.0	113	75 - 125
TRANS-1,3-DICHLOROPROPENE	20.0	92	75 - 125
CIS-1,3-DICHLOROPROPENE	20.0	110	75 - 125
ETHYLBENZENE	20.0	113	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1117316

ANALYTICAL RUN #: 163914

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/25/08		
ANALYTICAL DILUTION:	1.0		
HEXACHLOROBUTADIENE	20.0	107	75 - 125
2-HEXANONE	20.0	89	75 - 125
DI-ISOPROPYL ETHER	20.0	94	75 - 125
ISOPROPYLBENZENE	20.0	117	75 - 125
P-ISOPROPYLTOLUENE	20.0	108	75 - 125
TERT-AMYL-METHYL ETHER	20.0	101	75 - 125
METHYLENE CHLORIDE	20.0	94	75 - 125
NAPHTHALENE	20.0	104	75 - 125
4-METHYL-2-PENTANONE	20.0	87	75 - 125
N-PROPYLBENZENE	20.0	104	75 - 125
STYRENE	20.0	115	75 - 125
1,1,1,2-TETRACHLOROETHANE	20.0	107	75 - 125
1,1,2,2-TETRACHLOROETHANE	20.0	98	75 - 125
TETRACHLOROETHENE	20.0	120	75 - 125
TOLUENE	20.0	109	75 - 125
1,2,4-TRICHLOROBENZENE	20.0	115	75 - 125
1,2,3-TRICHLOROBENZENE	20.0	111	75 - 125
1,1,1-TRICHLOROETHANE	20.0	89	75 - 125
1,1,2-TRICHLOROETHANE	20.0	97	75 - 125
TRICHLOROETHENE	20.0	107	75 - 125
TRICHLOROFLUOROMETHANE	20.0	87	75 - 125
1,2,3-TRICHLOROPROPANE	20.0	82	75 - 125
1,3,5-TRIMETHYLBENZENE	20.0	103	75 - 125
1,2,4-TRIMETHYLBENZENE	20.0	106	75 - 125
VINYL CHLORIDE	20.0	99	75 - 125
M+P-XYLENE	40.0	115	75 - 125
O-XYLENE	20.0	117	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1117318 ANALYTICAL RUN #: 163915

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/26/08		
ANALYTICAL DILUTION:	1.0		
ACETONE	20.0	87	75 - 125
BENZENE	20.0	122	75 - 125
BROMOBENZENE	20.0	116	75 - 125
BROMOCHLOROMETHANE	20.0	109	75 - 125
BROMODICHLOROMETHANE	20.0	103	75 - 125
BROMOFORM	20.0	112	75 - 125
BROMOMETHANE	20.0	91	75 - 125
2-BUTANONE (MEK)	20.0	85	75 - 125
TERT-BUTYL ALCOHOL	400	102	75 - 125
METHYL-TERT-BUTYL ETHER	20.0	96	75 - 125
ETHYL-TERT-BUTYL ETHER	20.0	97	75 - 125
TERT-BUTYLBENZENE	20.0	112	75 - 125
SEC-BUTYLBENZENE	20.0	120	75 - 125
N-BUTYLBENZENE	20.0	115	75 - 125
CARBON TETRACHLORIDE	20.0	93	75 - 125
CHLOROBENZENE	20.0	116	75 - 125
CHLOROETHANE	20.0	97	75 - 125
CHLOROFORM	20.0	102	75 - 125
CHLOROMETHANE	20.0	112	75 - 125
1,2-DIBROMO-3-CHLOROPROPANE	20.0	102	75 - 125
2-CHLOROTOLUENE	20.0	102	75 - 125
4-CHLOROTOLUENE	20.0	112	75 - 125
DIBROMOCHLOROMETHANE	20.0	104	75 - 125
1,2-DIBROMOETHANE	20.0	102	75 - 125
DIBROMOMETHANE	20.0	105	75 - 125
1,2-DICHLOROBENZENE	20.0	115	75 - 125
1,4-DICHLOROBENZENE	20.0	118	75 - 125
1,3-DICHLOROBENZENE	20.0	119	75 - 125
DICHLORODIFLUOROMETHANE	20.0	128 *	75 - 125
1,1-DICHLOROETHANE	20.0	100	75 - 125
1,2-DICHLOROETHANE	20.0	97	75 - 125
1,1-DICHLOROETHENE	20.0	104	75 - 125
TRANS-1,2-DICHLOROETHENE	20.0	100	75 - 125
CIS-1,2-DICHLOROETHENE	20.0	105	75 - 125
2,2-DICHLOROPROPANE	20.0	97	75 - 125
1,2-DICHLOROPROPANE	20.0	115	75 - 125
1,3-DICHLOROPROPANE	20.0	102	75 - 125
1,1-DICHLOROPROPENE	20.0	120	75 - 125
TRANS-1,3-DICHLOROPROPENE	20.0	96	75 - 125
CIS-1,3-DICHLOROPROPENE	20.0	116	75 - 125
ETHYLBENZENE	20.0	118	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1117318

ANALYTICAL RUN # : 163915

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/26/08		
ANALYTICAL DILUTION:	1.0		
HEXACHLOROBUTADIENE	20.0	114	75 - 125
2-HEXANONE	20.0	88	75 - 125
DI-ISOPROPYL ETHER	20.0	96	75 - 125
ISOPROPYLBENZENE	20.0	121	75 - 125
P-ISOPROPYLTOLUENE	20.0	115	75 - 125
TERT-AMYL-METHYL ETHER	20.0	103	75 - 125
METHYLENE CHLORIDE	20.0	97	75 - 125
NAPHTHALENE	20.0	115	75 - 125
4-METHYL-2-PENTANONE	20.0	84	75 - 125
N-PROPYLBENZENE	20.0	109	75 - 125
STYRENE	20.0	121	75 - 125
1,1,1,2-TETRACHLOROETHANE	20.0	109	75 - 125
1,1,2,2-TETRACHLOROETHANE	20.0	101	75 - 125
TETRACHLOROETHENE	20.0	127 *	75 - 125
TOLUENE	20.0	115	75 - 125
1,2,4-TRICHLOROBENZENE	20.0	116	75 - 125
1,2,3-TRICHLOROBENZENE	20.0	117	75 - 125
1,1,1-TRICHLOROETHANE	20.0	94	75 - 125
1,1,2-TRICHLOROETHANE	20.0	104	75 - 125
TRICHLOROETHENE	20.0	113	75 - 125
TRICHLOROFLUOROMETHANE	20.0	91	75 - 125
1,2,3-TRICHLOROPROPANE	20.0	84	75 - 125
1,3,5-TRIMETHYLBENZENE	20.0	111	75 - 125
1,2,4-TRIMETHYLBENZENE	20.0	111	75 - 125
VINYL CHLORIDE	20.0	106	75 - 125
M+P-XYLENE	40.0	121	75 - 125
O-XYLENE	20.0	123	75 - 125

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID: Z2550.D Lab Sample ID: 1117311 1.0
 Date Analyzed: 6/24/2008 Time Analyzed: 12:49
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
 Instrument ID: MS#8

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS1	1117312 1.0	Z2548.D	11:53
02	PB061608B	1109708 1.0	Z2562.D	18:22
03	PC-40B	1110532 1.0	Z2563.D	18:50
04	H-48B	1110981 1.0	Z2564.D	19:17
05	TRBLK6/19#1	1110982 1.0	Z2565.D	19:45
06	MC-66BD	1111264 1.0	Z2566.D	20:13
07	MC-65B	1111265 1.0	Z2567.D	20:41
08	MC-66B	1111266 1.0	Z2568.D	21:08
09	PC-37B	1111267 1.0	Z2569.D	21:36
10	TRBLK6/20#1	1111268 1.0	Z2570.D	22:04
11	TRBLK6/20#2	1111269 1.0	Z2571.D	22:32

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

VBLK2

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID: Z2579.D Lab Sample ID: 1117315 1.0
 Date Analyzed: 6/25/2008 Time Analyzed: 12:21
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
 Instrument ID: MS#8

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS2	1117316 1.0	Z2577.D	11:25
02	PC-72B	1111763 1.0	Z2590.D	17:26
03	M-94B	1111764 1.0	Z2591.D	17:54
04	MC-62B	1111765 10	Z2592.D	18:22
05	TRBLK6/23#1	1111767 1.0	Z2593.D	18:49
06	TRBLK6/23#2	1111768 1.0	Z2594.D	19:17

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK3

Lab Name: CAS/ROCH Contract: ENSR
Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
Lab File ID: Z2610.D Lab Sample ID: 1117317 1.0
Date Analyzed: 6/26/2008 Time Analyzed: 13:45
GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Instrument ID: MS#8

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS3	1117318 1.0	Z2608.D	12:50
02	MC-62BDL	1111765 20	Z2613.D	15:09

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID: Z2133.D BFB Injection Date: 06/02/08
 Instrument ID: MS#8 BFB Injection Time: 12:57
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	29.3
75	30.0 - 60.0% of mass 95	52.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	53.6
175	5.0 - 9.0% of mass 174	4.5 (8.3)1
176	95.0 - 101.0% of mass 174	52.1 (97.2)1
177	5.0 - 9.0% of mass 176	3.0 (5.8)2

1-Value is % mass 174

2-Value is % mass 176

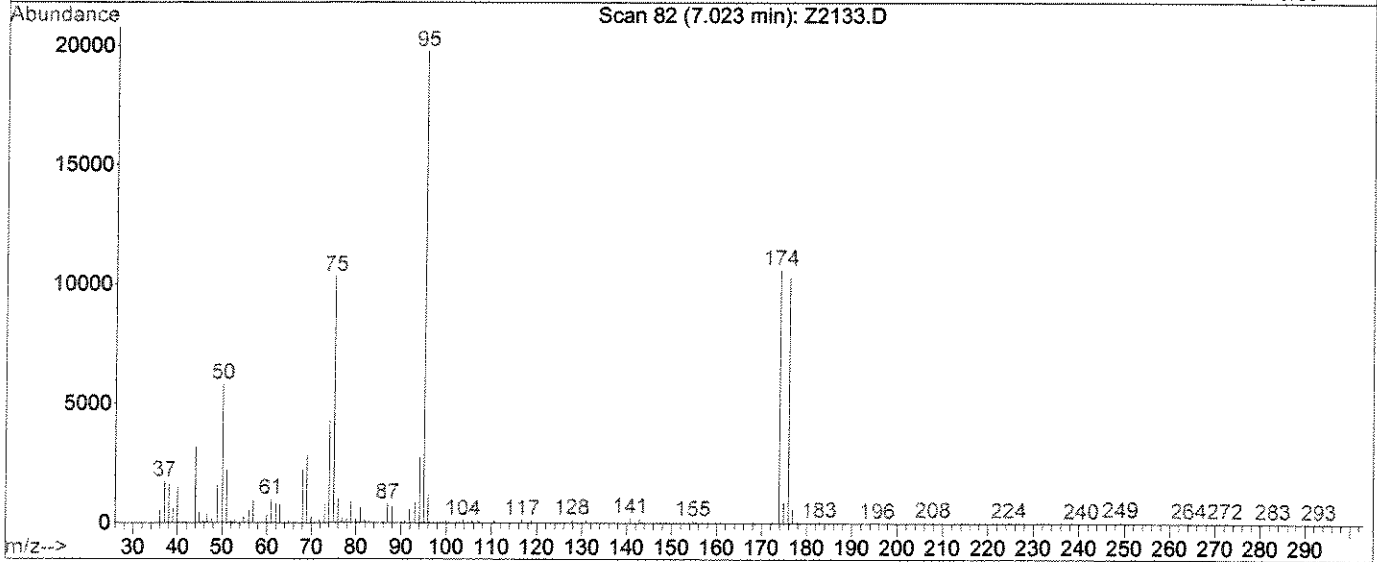
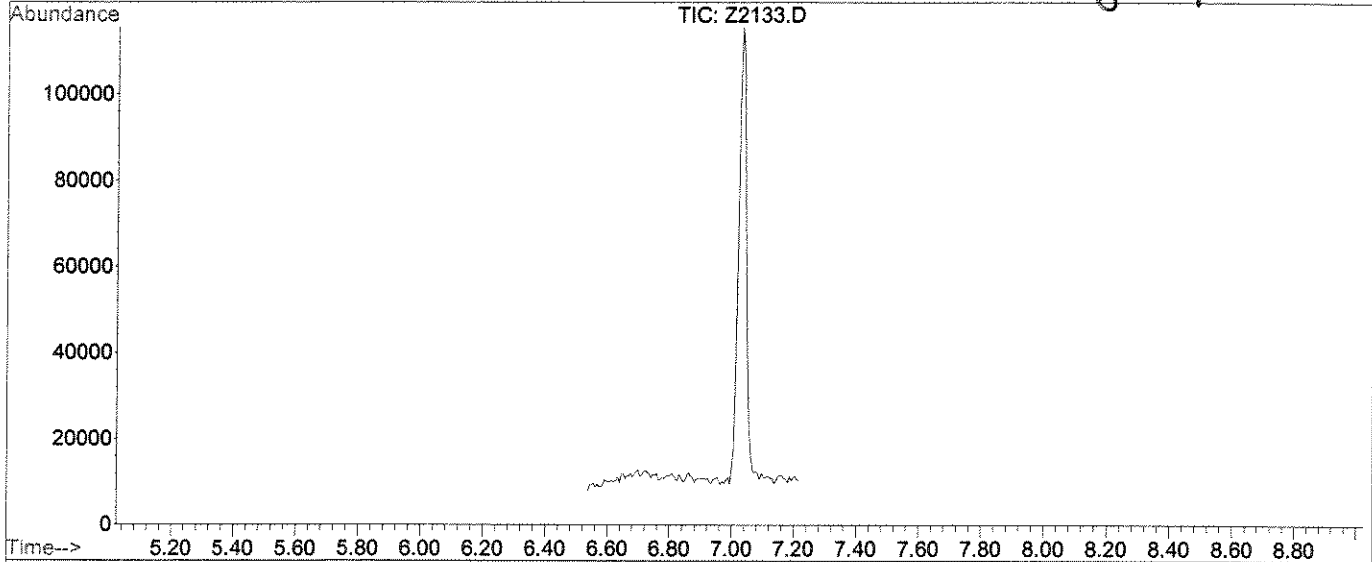
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0.5	0.5PPB	Z2136.D	06/02/08	14:22
02	1.0	1.0PPB	Z2137.D	06/02/08	14:50
03	2.0	2.0PPB	Z2138.D	06/02/08	15:18
04	5.0	5.0PPB	Z2139.D	06/02/08	15:46
05	10	10PPB	Z2140.D	06/02/08	16:14
06	50	50PPB	Z2141.D	06/02/08	16:42
07	100	100PPB	Z2142.D	06/02/08	17:10
08	200	200PPB	Z2143.D	06/02/08	17:38

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2133.D
 Acq On : 2 Jun 2008 12:57 pm
 Sample : TUNE
 Misc :
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa

Vial: 5
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

RJH 6/2



Spectrum Information: Scan 82

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.3	5807	PASS
75	95	30	60	52.1	10320	PASS
95	95	100	100	100.0	19792	PASS
96	95	5	9	6.1	1201	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	53.6	10612	PASS
175	174	5	9	8.3	886	PASS
176	174	95	101	97.2	10312	PASS
177	176	5	9	5.8	593	PASS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID: Z2546.D BFB Injection Date: 06/24/08
 Instrument ID: MS#8 BFB Injection Time: 10:50
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.1
75	30.0 - 60.0% of mass 95	45.2
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	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	71.2
175	5.0 - 9.0% of mass 174	6.4 (9.0)1
176	95.0 - 101.0% of mass 174	69.5 (97.5)1
177	5.0 - 9.0% of mass 176	4.4 (6.3)2

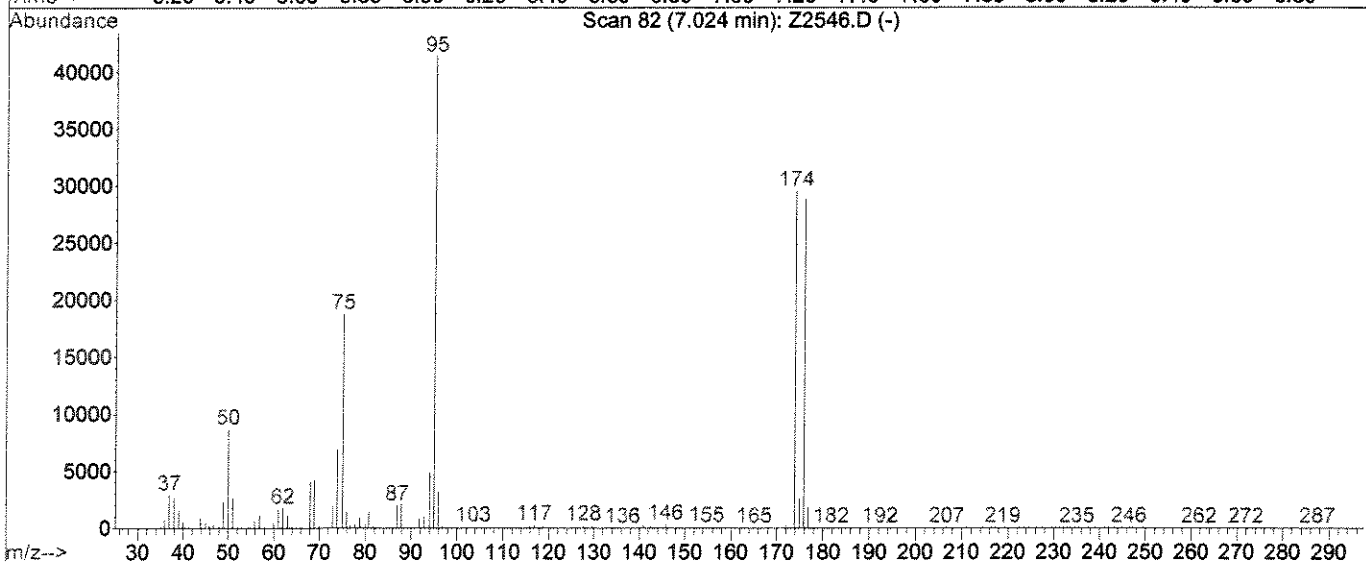
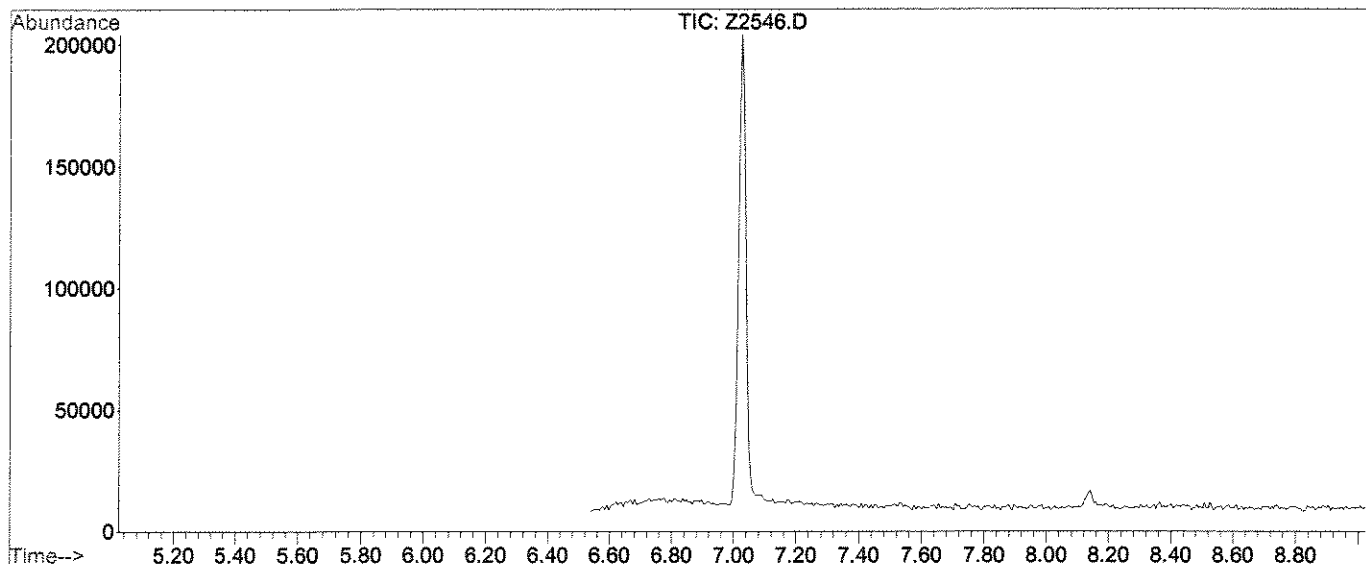
1-Value is % mass 174

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	VSTD1	CCV	Z2547.D	06/24/08	11:23
02	LCS1	1117312 1.0	Z2548.D	06/24/08	11:53
03	VBLK1	1117311 1.0	Z2550.D	06/24/08	12:49
04	PB061608B	1109708 1.0	Z2562.D	06/24/08	18:22
05	PC-40B	1110532 1.0	Z2563.D	06/24/08	18:50
06	H-48B	1110981 1.0	Z2564.D	06/24/08	19:17
07	TRBLK6/19#1	1110982 1.0	Z2565.D	06/24/08	19:45
08	MC-66BD	1111264 1.0	Z2566.D	06/24/08	20:13
09	MC-65B	1111265 1.0	Z2567.D	06/24/08	20:41
10	MC-66B	1111266 1.0	Z2568.D	06/24/08	21:08
11	PC-37B	1111267 1.0	Z2569.D	06/24/08	21:36
12	TRBLK6/20#1	1111268 1.0	Z2570.D	06/24/08	22:04
13	TRBLK6/20#2	1111269 1.0	Z2571.D	06/24/08	22:32

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2546.D Vial: 5
 Acq On : 24 Jun 2008 10:50 am Operator: Herring
 Sample : TUNE CHECK Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\MSVOA8\METHODS\W042408.M (RTE Integrator)
 Title : 8260voa



Spectrum Information: Scan 82

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	8676	PASS
75	95	30	60	45.3	18752	PASS
95	95	100	100	100.0	41409	PASS
96	95	5	9	7.7	3177	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	71.4	29560	PASS
175	174	5	9	8.8	2612	PASS
176	174	95	101	97.5	28824	PASS
177	176	5	9	6.3	1809	PASS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID: Z2575.D BFB Injection Date: 06/25/08
 Instrument ID: MS#8 BFB Injection Time: 10:24
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.1
75	30.0 - 60.0% of mass 95	47.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	66.9
175	5.0 - 9.0% of mass 174	3.9 (5.8)1
176	95.0 - 101.0% of mass 174	65.2 (97.6)1
177	5.0 - 9.0% of mass 176	4.5 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

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

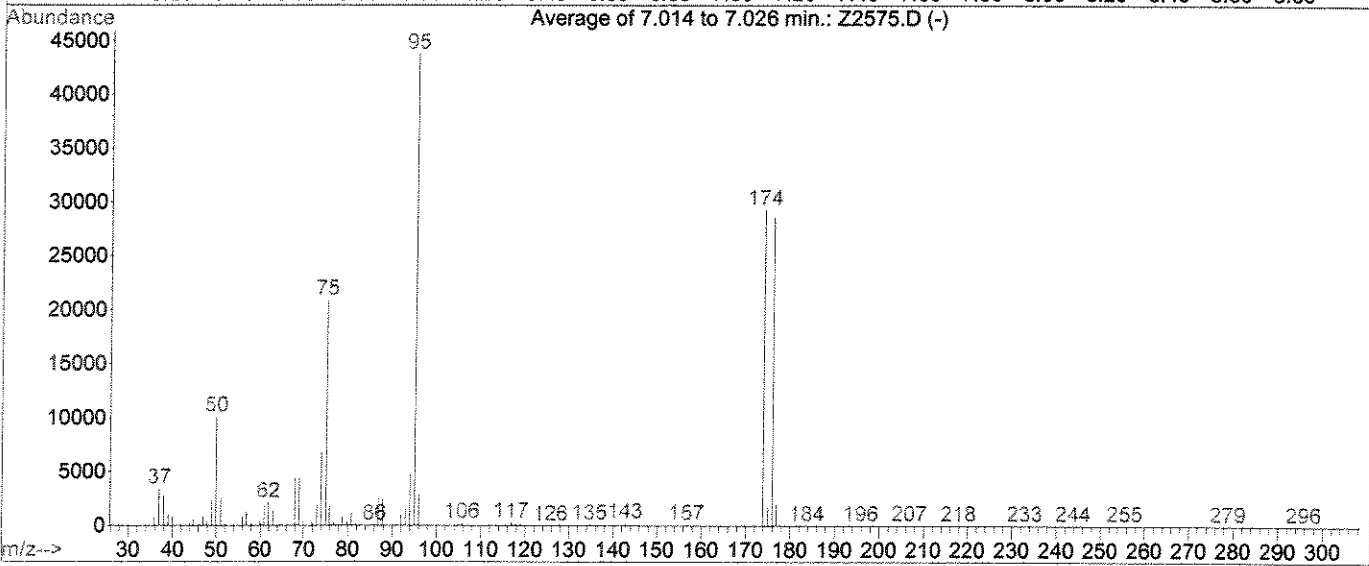
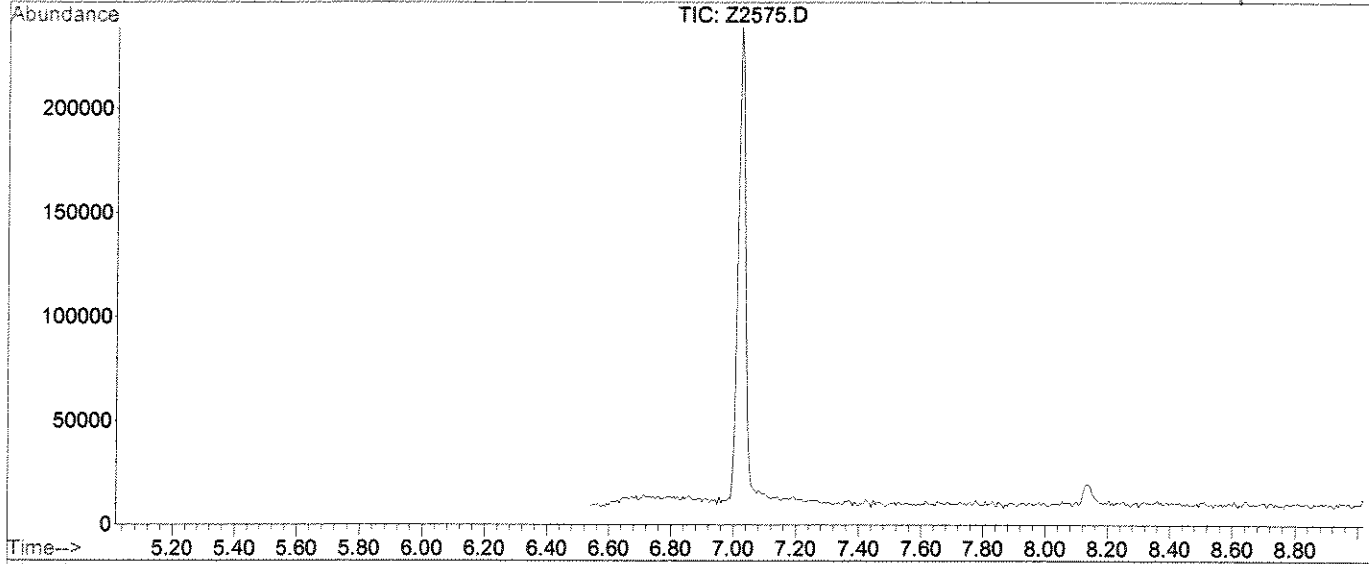
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD2	CCV	Z2576.D	06/25/08	10:52
02	LCS2	1117316 1.0	Z2577.D	06/25/08	11:25
03	VBLK2	1117315 1.0	Z2579.D	06/25/08	12:21
04	PC-72B	1111763 1.0	Z2590.D	06/25/08	17:26
05	M-94B	1111764 1.0	Z2591.D	06/25/08	17:54
06	MC-62B	1111765 1.0	Z2592.D	06/25/08	18:22
07	TRBLK6/23#1	1111767 1.0	Z2593.D	06/25/08	18:49
08	TRBLK6/23#2	1111768 1.0	Z2594.D	06/25/08	19:17

BFB

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2575.D
Acq On : 25 Jun 2008 10:24 am
Sample : TUNE CHECK
Misc :
MS Integration Params: RTEINT.P
Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa

Vial: 4
Operator: Herring
Inst : MS #8
Multiplr: 1.00

Refining 4/25



AutoFind: Scans 80, 81, 82; Background Corrected with Scan 69

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.1	10098	PASS
75	95	30	60	47.7	20871	PASS
95	95	100	100	100.0	43784	PASS
96	95	5	9	6.6	2887	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	66.9	29280	PASS
175	174	5	9	5.8	1694	PASS
176	174	95	101	97.6	28563	PASS
177	176	5	9	6.9	1964	PASS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID: Z2605.D BFB Injection Date: 06/26/08
 Instrument ID: MS#8 BFB Injection Time: 11:26
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.6
75	30.0 - 60.0% of mass 95	47.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.4 (0.6)1
174	50.0 - 120.0% of mass 95	69.1
175	5.0 - 9.0% of mass 174	3.9 (5.6)1
176	95.0 - 101.0% of mass 174	68.2 (98.7)1
177	5.0 - 9.0% of mass 176	4.0 (5.8)2

1-Value is % mass 174

2-Value is % mass 176

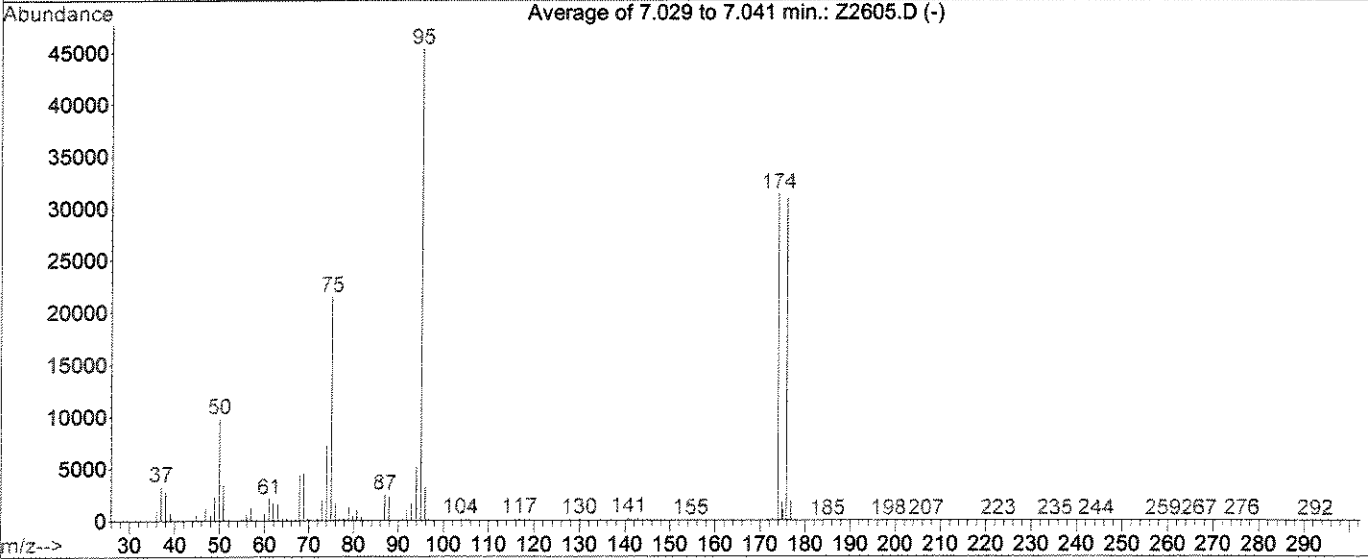
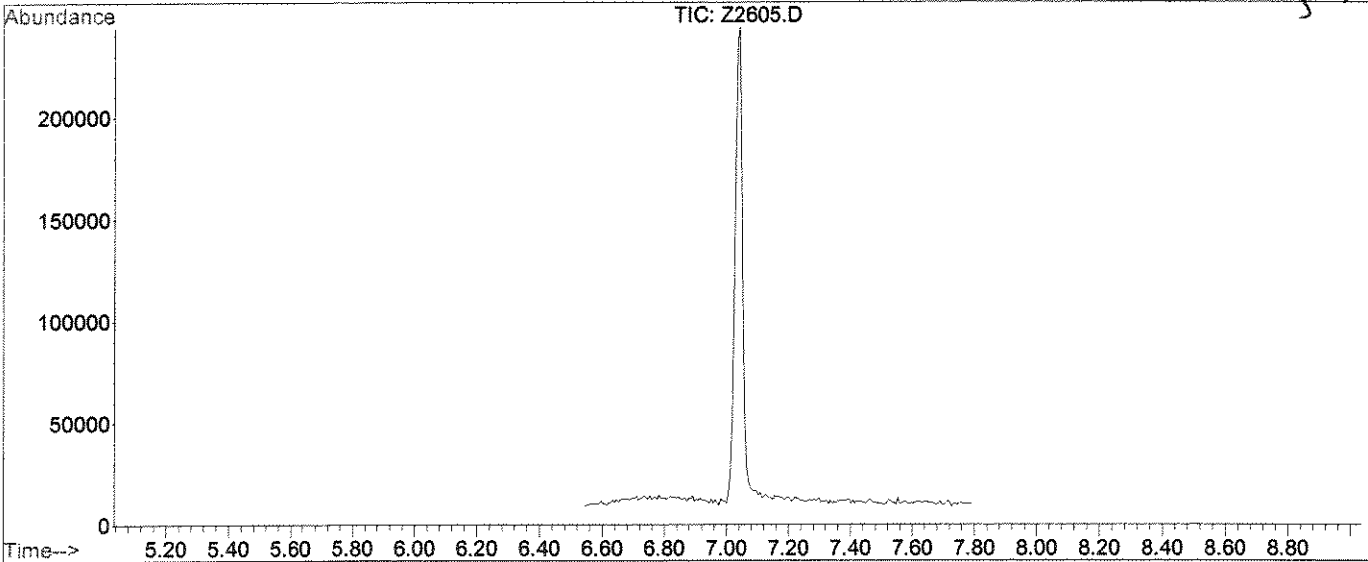
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD3	CCV	Z2607.D	06/26/08	12:22
02	LCS3	1117318 1.0	Z2608.D	06/26/08	12:50
03	VBLK3	1117317 1.0	Z2610.D	06/26/08	13:45
04	MC-62BDL	1111765 20	Z2613.D	06/26/08	15:09

Data File : J:\ACQUDATA\MSVOAS\DATA\062608\Z2605.D
 Acq On : 26 Jun 2008 11:26 am
 Sample : TUNE CHECK
 Misc :
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\MSVOAS\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa

Vial: 4
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Herring 6/25



AutoFind: Scans 82, 83, 84; Background Corrected with Scan 75

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	9816	PASS
75	95	30	60	47.3	21453	PASS
95	95	100	100	100.0	45360	PASS
96	95	5	9	7.1	3207	PASS
173	174	0.00	2	0.6	189	PASS
174	95	50	120	69.1	31333	PASS
175	174	5	9	5.6	1756	PASS
176	174	95	101	98.7	30928	PASS
177	176	5	9	5.8	1806	PASS

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID (Standard): Z2547.D Date Analyzed: 6/24/2008
 Instrument ID: MS#8 Time Analyzed: 11:23
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge (Y/N): N

	IS1		IS2		IS3		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	727702	3.13	1346405	3.63	1155350	5.95	
UPPER LIMIT	1455404	3.63	2692810	4.13	2310700	6.45	
LOWER LIMIT	363851	2.63	673203	3.13	577675	5.45	
EPA SAMPLE NO.							
01	LCS1	759005	3.13	1418924	3.63	1212944	5.96
02	VBLK1	722909	3.12	1336554	3.63	1157710	5.96
03	PB061608B	735602	3.13	1360175	3.63	1172552	5.95
04	PC-40B	728599	3.13	1330464	3.63	1164734	5.95
05	H-48B	697631	3.13	1286834	3.63	1127758	5.95
06	TRBLK6/19#1	728795	3.13	1356269	3.63	1170387	5.95
07	MC-66BD	731036	3.13	1343647	3.63	1167402	5.95
08	MC-65B	702399	3.13	1289000	3.63	1113130	5.95
09	MC-66B	703446	3.13	1303990	3.63	1116689	5.95
10	PC-37B	654899	3.13	1207929	3.62	1028016	5.95
11	TRBLK6/20#1	709549	3.12	1303483	3.63	1141970	5.95
12	TRBLK6/20#2	714414	3.13	1307060	3.63	1144647	5.95

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

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
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID (Standard): Z2547.D Date Analyzed: 06/24/08
 Instrument ID: MS#8 Time Analyzed: 11:23
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge (Y/N): N

		IS4					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		495614	8.14				
UPPER LIMIT		991228	7.64				
LOWER LIMIT		247807	8.64				
EPA SAMPLE NO.							
01	LCS1	513033	8.14				
02	VBLK1	470159	8.14				
03	PB061608B	475726	8.14				
04	PC-40B	480680	8.14				
05	H-48B	454295	8.14				
06	TRBLK6/19#1	480479	8.14				
07	MC-66BD	475700	8.14				
08	MC-65B	455811	8.14				
09	MC-66B	451416	8.14				
10	PC-37B	412845	8.14				
11	TRBLK6/20#1	458182	8.14				
12	TRBLK6/20#2	466004	8.14				

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID (Standard): Z2576.D Date Analyzed: 6/25/2008
 Instrument ID: MS#8 Time Analyzed: 10:52
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge (Y/N): N

	IS1		IS2		IS3		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	744985	3.13	1372539	3.63	1181376	5.95	
UPPER LIMIT	1489970	3.63	2745078	4.13	2362752	6.45	
LOWER LIMIT	372493	2.63	686270	3.13	590688	5.45	
EPA SAMPLE NO.							
01	LCS2	771457	3.12	1424754	3.63	1228928	5.96
02	VBLK2	740104	3.13	1354815	3.63	1175717	5.95
03	PC-72B	729342	3.13	1331199	3.63	1169556	5.96
04	M-94B	737130	3.13	1356837	3.63	1163900	5.96
05	MC-62B	729289	3.13	1355161	3.63	1188513	5.96
06	TRBLK6/23#1	721360	3.13	1319630	3.63	1145781	5.96
07	TRBLK6/23#2	736230	3.13	1355695	3.63	1161102	5.96

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

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
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID (Standard): Z2576.D Date Analyzed: 06/25/08
 Instrument ID: MS#8 Time Analyzed: 10:52
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge (Y/N): N

		IS4					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		516424	8.14				
UPPER LIMIT		1032848	7.64				
LOWER LIMIT		258212	8.64				
EPA SAMPLE NO.							
01	LCS2	517025	8.14				
02	VBLK2	468418	8.14				
03	PC-72B	477252	8.14				
04	M-94B	483371	8.14				
05	MC-62B	479728	8.14				
06	TRBLK6/23#1	469274	8.15				
07	TRBLK6/23#2	487392	8.15				

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID (Standard): Z2607.D Date Analyzed: 6/26/2008
 Instrument ID: MS#8 Time Analyzed: 12:22
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge (Y/N): N

	IS1		IS2		IS3		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	759203	3.13	1422070	3.64	1212699	5.97	
UPPER LIMIT	1518406	3.63	2844140	4.14	2425398	6.47	
LOWER LIMIT	379602	2.63	711035	3.14	606350	5.47	
EPA SAMPLE NO.							
01	LCS3	757545	3.13	1404230	3.64	1219990	5.96
02	VBLK3	748157	3.14	1375291	3.64	1190718	5.97
03	MC-62BDL	727868	3.13	1352908	3.64	1179328	5.97

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

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
 Lab Code: 10145 Case No.: R8-44538 SAS No.: _____ SDG No.: PB061608
 Lab File ID (Standard): Z2607.D Date Analyzed: 06/26/08
 Instrument ID: MS#8 Time Analyzed: 12:22
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge (Y/N): N

IS4						
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	528604	8.15				
UPPER LIMIT	1057208	7.65				
LOWER LIMIT	264302	8.65				
EPA SAMPLE NO.						
01	LCS3	508950	8.15			
02	VBLK3	481477	8.15			
03	MC-62BDL	476275	8.15			

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

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

APR 25 2008

MDL Study Report

Analytical Method: 8260B
 Extraction Method: EPA 5035
 Matrix: WATER (10mL)
 Instrument: MS #8

MDL Study ID: MDL266

Referring

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	0.500	0.453	0.0309	3.143	0.097	ug/L	7	91	Valid MDL Data
1,1,1-Trichloroethane (TCA)	0.500	0.419	0.0426	3.143	0.13	ug/L	10	84	Valid MDL Data
1,1,2,2-Tetrachloroethane	0.500	0.479	0.0441	3.143	0.14	ug/L	9	96	Valid MDL Data
1,1,2-Trichloroethane	0.500	0.459	0.0677	3.143	0.21	ug/L	15	92	Valid MDL Data
1,1-Dichloroethane	0.500	0.419	0.0241	3.143	0.076	ug/L	6	84	Valid MDL Data
1,1-Dichloroethene	0.500	0.424	0.0310	3.143	0.097	ug/L	7	85	Valid MDL Data
1,1-Dichloropropene	0.500	0.470	0.0258	3.143	0.081	ug/L	5	94	Valid MDL Data
1,2,3-Trichlorobenzene	0.500	0.474	0.0315	3.143	0.099	ug/L	7	95	Valid MDL Data
1,2,3-Trichloropropane	0.500	0.499	0.0919	3.143	0.29	ug/L	18	100	Valid MDL Data
1,2,4-Trichlorobenzene	0.500	0.467	0.0468	3.143	0.15	ug/L	10	93	Valid MDL Data
1,2,4-Trimethylbenzene	2.00	1.72	0.0878	3.143	0.28	ug/L	5	86	Valid MDL Data
1,2-Dibromo-3-chloropropane (DBCP)	2.00	1.42	0.260	3.143	0.82	ug/L	18	71	Valid MDL Data
1,2-Dibromoethane (EDB)	0.500	0.486	0.0602	3.143	0.19	ug/L	12	97	Valid MDL Data
1,2-Dichloro-1,1,2-trifluoroethane (C	0.500	0.383	0.0442	3.143	0.14	ug/L	12	77	Valid MDL Data
1,2-Dichlorobenzene	0.500	0.444	0.0207	3.143	0.065	ug/L	5	89	Valid MDL Data
1,2-Dichloroethane (EDC)	0.500	0.437	0.0350	3.143	0.11	ug/L	8	87	Valid MDL Data
1,2-Dichloropropane	0.500	0.517	0.0678	3.143	0.21	ug/L	13	103	Valid MDL Data
1,3,5-Trimethylbenzene	2.00	1.73	0.0902	3.143	0.28	ug/L	5	87	Valid MDL Data
1,3-Dichlorobenzene	0.500	0.454	0.0244	3.143	0.077	ug/L	5	91	Valid MDL Data
1,3-Dichloropropane	0.500	0.443	0.0229	3.143	0.072	ug/L	5	89	Valid MDL Data
1,4-Dichlorobenzene	0.500	0.486	0.0412	3.143	0.13	ug/L	8	97	Valid MDL Data
1,4-Dioxane	40.0	40.9	9.42	3.143	30	ug/L	23	102	Valid MDL Data
2,2-Dichloro-1,1,1-trifluoroethane (C	0.500	0.410	0.0408	3.143	0.13	ug/L	10	82	Valid MDL Data
2,2-Dichloropropane	0.500	0.439	0.0406	3.143	0.13	ug/L	9	88	Valid MDL Data
2-Butanone (MEK)	2.00	1.87	0.197	3.143	0.62	ug/L	11	94	Valid MDL Data
2-Chloro-1,3-butadiene	0.500	0.387	0.0403	3.143	0.13	ug/L	10	77	Valid MDL Data
2-Chloroethyl Vinyl Ether	0.500	0.553	0.128	3.143	0.40	ug/L	23	111	Valid MDL Data
2-Chlorotoluene	2.00	1.69	0.102	3.143	0.32	ug/L	6	85	Valid MDL Data
2-Hexanone	2.00	2.03	0.270	3.143	0.85	ug/L	13	102	Valid MDL Data
2-Nitropropane	4.00	3.36	0.291	3.143	0.91	ug/L	9	84	Valid MDL Data
2-Propanol	40.0	35.7	5.88	3.143	18	ug/L	16	89	Valid MDL Data

QA/QC Approval:

Supervisor Approval:

R. Herring

Columbia Analytical Services
MDL Study Report

APR 25 2008

MDL Study ID: MDL266

Analytical Method: 8260B
Extraction Method: EPA 5035
Matrix: WATER
Instrument: MS #8

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
4-Chlorotoluene	0.500	0.436	0.0270	3.143	0.085	ug/L	6	87	Valid MDL Data
4-Isopropyltoluene	0.500	0.430	0.0173	3.143	0.054	ug/L	4	86	Valid MDL Data
4-Methyl-2-pentanone (MIBK)	0.500	0.584	0.0541	3.143	0.17	ug/L	9	117	Valid MDL Data
Acetone	2.00	2.74	0.397	3.143	1.2	ug/L	15	137	Valid MDL Data
Acetonitrile	10.0	9.06	2.90	3.143	9.1	ug/L	32	91	Valid MDL Data
Acrolein	2.50	2.55	0.438	3.143	1.4	ug/L	17	102	Valid MDL Data
Acrylonitrile	2.50	2.11	0.107	3.143	0.34	ug/L	5	84	Valid MDL Data
Allyl Chloride	0.500	0.423	0.0716	3.143	0.22	ug/L	17	85	Valid MDL Data
Benzene	0.500	0.450	0.0245	3.143	0.077	ug/L	5	90	Valid MDL Data
Bromobenzene	0.500	0.427	0.0591	3.143	0.19	ug/L	14	85	Valid MDL Data
Bromochloromethane	0.500	0.439	0.0449	3.143	0.14	ug/L	10	88	Valid MDL Data
Bromodichloromethane	0.500	0.437	0.0206	3.143	0.065	ug/L	5	87	Valid MDL Data
Bromoform	2.00	1.64	0.106	3.143	0.33	ug/L	6	82	Valid MDL Data
Bromomethane	0.500	0.520	0.0440	3.143	0.14	ug/L	8	104	Valid MDL Data
Carbon Disulfide	0.500	0.494	0.0336	3.143	0.11	ug/L	7	99	Valid MDL Data
Carbon Tetrachloride	0.500	0.466	0.0506	3.143	0.16	ug/L	11	93	Valid MDL Data
Chlorobenzene	0.500	0.466	0.0282	3.143	0.089	ug/L	6	93	Valid MDL Data
Chloroethane	0.500	0.383	0.0345	3.143	0.11	ug/L	9	77	Valid MDL Data
Chloroform	0.500	0.426	0.0257	3.143	0.081	ug/L	6	85	Valid MDL Data
Chloromethane	0.500	0.441	0.0453	3.143	0.14	ug/L	10	88	Valid MDL Data
cis-1,2-Dichloroethene	0.500	0.430	0.0316	3.143	0.099	ug/L	7	86	Valid MDL Data
cis-1,3-Dichloropropene	0.500	0.434	0.0412	3.143	0.13	ug/L	9	87	Valid MDL Data
Cyclohexane	0.500	0.420	0.0271	3.143	0.085	ug/L	6	84	Valid MDL Data
Cyclohexanone	10.0	9.24	2.29	3.143	7.2	ug/L	25	92	Valid MDL Data
Dibromochloromethane	0.500	0.481	0.0195	3.143	0.061	ug/L	4	96	Valid MDL Data
Dibromomethane	0.500	0.549	0.0543	3.143	0.17	ug/L	10	110	Valid MDL Data
Dichlorodifluoromethane	0.500	0.373	0.0407	3.143	0.13	ug/L	11	75	Valid MDL Data
Dichlorofluoromethane (CFC 21)	0.500	0.394	0.0341	3.143	0.11	ug/L	9	79	Valid MDL Data
Diethyl Ether	0.500	0.439	0.0389	3.143	0.12	ug/L	9	88	Valid MDL Data
Diisopropyl Ether	0.500	0.416	0.0207	3.143	0.065	ug/L	5	83	Valid MDL Data
ETBE	2.00	1.62	0.0965	3.143	0.30	ug/L	6	81	Valid MDL Data

Supervisor Approval:

QA/QC Approval:

APR 25 2008

Columbia Analytical Services

MDL Study Report

Referring

MDL Study ID: MDL266

Analytical Method: 8260B
Extraction Method: EPA 5035
Matrix: WATER
Instrument: MS #8

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
Ethyl Methacrylate	0.500	0.499	0.0521	3.143	0.16	ug/L	10	100	Valid MDL Data
Ethylbenzene	0.500	0.454	0.0223	3.143	0.070	ug/L	5	91	Valid MDL Data
Hexachlorobutadiene	0.500	0.473	0.0528	3.143	0.17	ug/L	11	95	Valid MDL Data
Iodomethane (Methyl iodide)	0.500	0.457	0.0535	3.143	0.17	ug/L	12	91	Valid MDL Data
Isobutyl Alcohol	10.0	12.9	1.91	3.143	6.0	ug/L	15	129	Valid MDL Data
Isopropylbenzene	0.500	0.439	0.0186	3.143	0.059	ug/L	4	88	Valid MDL Data
m,p-Xylenes	1.00	0.904	0.0479	3.143	0.15	ug/L	5	90	Valid MDL Data
Methacrylonitrile	2.00	1.58	0.191	3.143	0.60	ug/L	12	79	Valid MDL Data
Methyl Acetate	0.500	0.653	0.0912	3.143	0.29	ug/L	14	131	Valid MDL Data
Methyl Methacrylate	0.500	0.541	0.0873	3.143	0.27	ug/L	16	108	Valid MDL Data
Methyl tert-Butyl Ether	0.500	0.419	0.0453	3.143	0.14	ug/L	11	84	Valid MDL Data
Methylcyclohexane	0.500	0.440	0.0503	3.143	0.16	ug/L	11	88	Valid MDL Data
Methylene Chloride	0.500	0.534	0.0282	3.143	0.089	ug/L	5	107	Valid MDL Data
Naphthalene	0.500	0.424	0.0526	3.143	0.17	ug/L	12	85	Valid MDL Data
n-Butylbenzene	0.500	0.399	0.0241	3.143	0.076	ug/L	6	80	Valid MDL Data
n-Heptane	0.500	0.481	0.0488	3.143	0.15	ug/L	10	96	Valid MDL Data
n-Propylbenzene	0.500	0.431	0.0234	3.143	0.074	ug/L	5	86	Valid MDL Data
o-Xylene	0.500	0.450	0.0311	3.143	0.098	ug/L	7	90	Valid MDL Data
Propionitrile	2.50	1.77	0.196	3.143	0.62	ug/L	11	71	Valid MDL Data
sec-Butylbenzene	0.500	0.426	0.0199	3.143	0.062	ug/L	5	85	Valid MDL Data
Styrene	0.500	0.420	0.0200	3.143	0.063	ug/L	5	84	Valid MDL Data
TAME	0.500	0.423	0.0298	3.143	0.094	ug/L	7	85	Valid MDL Data
tert-Butyl Alcohol	10.0	9.43	0.611	3.143	1.9	ug/L	6	94	Valid MDL Data
tert-Butylbenzene	2.00	1.74	0.0984	3.143	0.31	ug/L	6	87	Valid MDL Data
Tetrachloroethene (PCE)	0.500	0.487	0.0198	3.143	0.062	ug/L	4	97	Valid MDL Data
Tetrahydrofuran	2.00	2.58	0.234	3.143	0.74	ug/L	9	129	Valid MDL Data
Toluene	0.500	0.467	0.0160	3.143	0.050	ug/L	3	93	Valid MDL Data
trans-1,2-Dichloroethene	0.500	0.421	0.0324	3.143	0.10	ug/L	8	84	Valid MDL Data
trans-1,3-Dichloropropene	0.500	0.434	0.0251	3.143	0.079	ug/L	6	87	Valid MDL Data
trans-1,4-Dichloro-2-butene	2.00	1.62	0.288	3.143	0.90	ug/L	18	81	Valid MDL Data
Trichloroethene (TCE)	0.500	0.493	0.0359	3.143	0.11	ug/L	7	99	Valid MDL Data

Supervisor Approval:

QA/QC Approval:

APR 25 2008

R. Hervey

MDL Study Report

MDL Study ID: MDL266

Analytical Method: 8260B
 Extraction Method: EPA 5035
 Matrix: WATER
 Instrument: MS #8

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
Trichlorofluoromethane	0.500	0.439	0.0324	3.143	0.10	ug/L	7	88	Valid MDL Data
Trichlorotrifluoroethane	2.00	1.63	0.0941	3.143	0.30	ug/L	6	82	Valid MDL Data
Vinyl Acetate	2.00	1.29	0.250	3.143	0.79	ug/L	19	64	Valid MDL Data
Vinyl Chloride	0.500	0.373	0.0345	3.143	0.11	ug/L	9	75	Valid MDL Data

000056

Supervisor Approval: _____

QA/QC Approval: _____

VOLATILE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PB061608B

Date Sampled : 06/16/08 14:30 Order #: 1109708 Sample Matrix: WATER
 Date Received: 06/17/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
ANALYTICAL DILUTION:	1.00		
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	0.24 J	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	0.22 J	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PB061608B

Date Sampled : 06/16/08 14:30 Order #: 1109708 Sample Matrix: WATER
 Date Received: 06/17/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
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	0.25 J	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	5.4	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	0.49 J	UG/L
O-XYLENE	1.0	0.24 J	UG/L

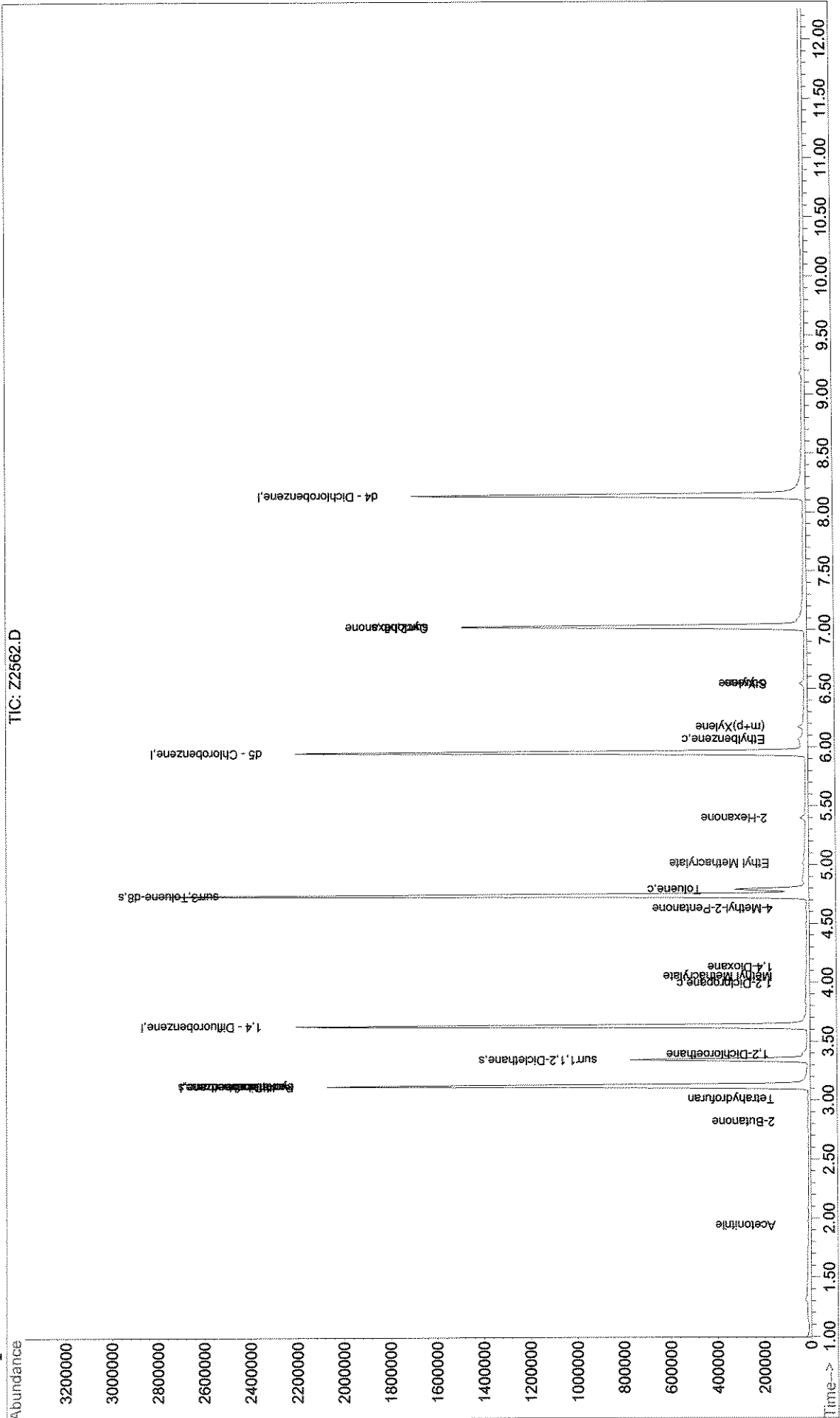
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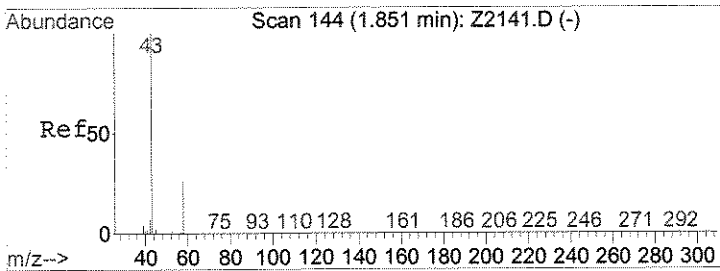
QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	102	%
TOLUENE-D8	(70 - 130 %)	100	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

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 Sample : 1109708 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 18:34 2008 Quant Results File: W060208.RES

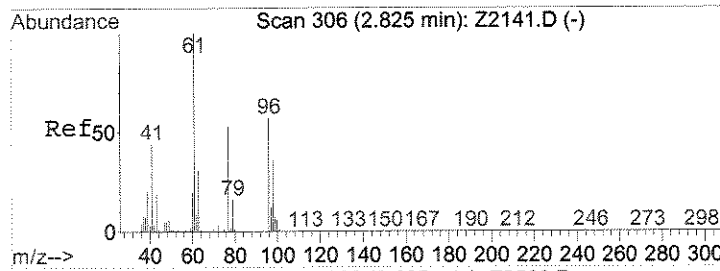
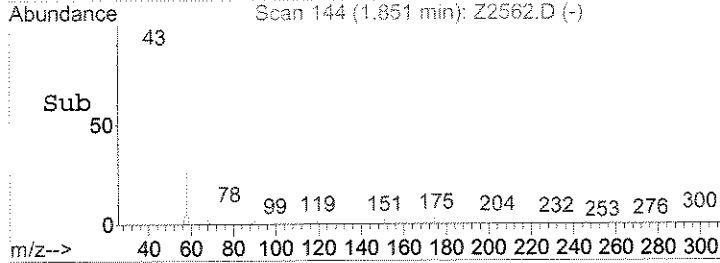
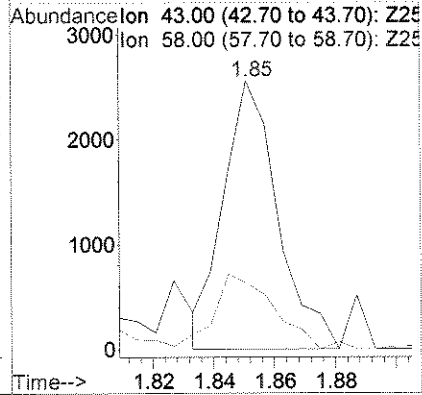
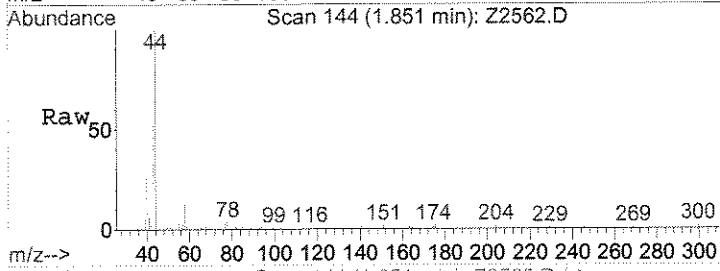
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 Title : 8260vov
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration





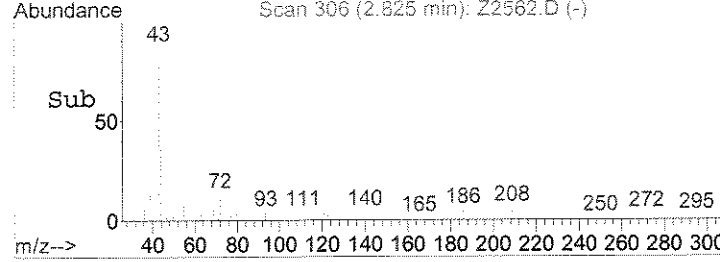
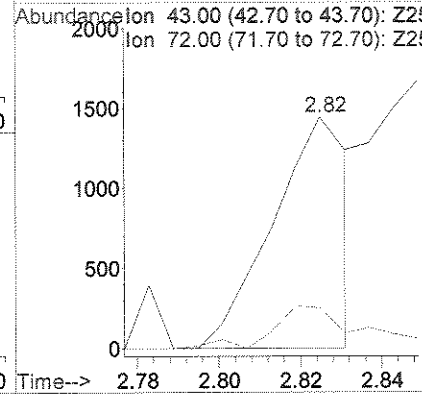
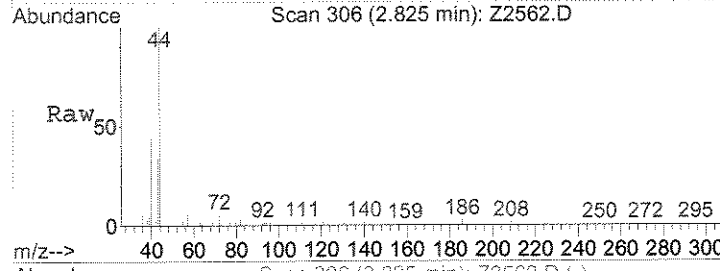
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 Acetone
 Concen: Below Cal
 RT: 1.85 min Scan# 144
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 Lab File: Z2562.D
 Acq: 24 Jun 2008 6:22 pm

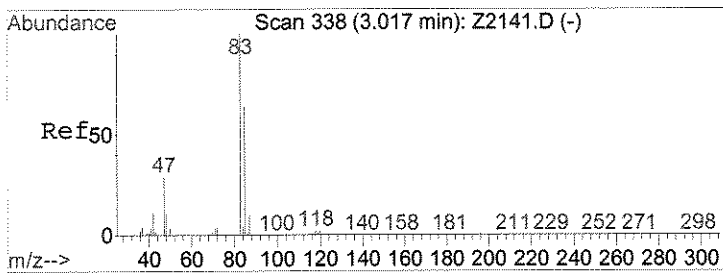
Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.6	19.0	28.6



#34
 2-Butanone
 Concen: 0.58 ppb
 RT: 2.82 min Scan# 306
 Delta R.T. -0.01 min
 Lab File: Z2562.D
 Acq: 24 Jun 2008 6:22 pm

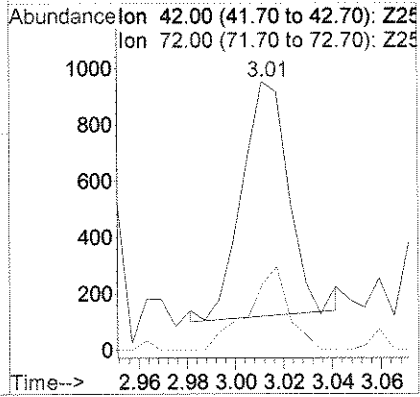
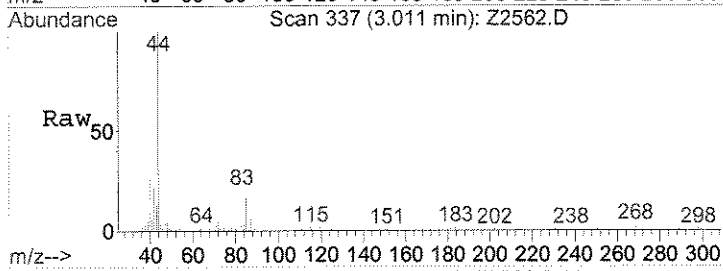
Tgt Ion	Ratio	Lower	Upper
43	100		
72	17.4	13.9	20.9



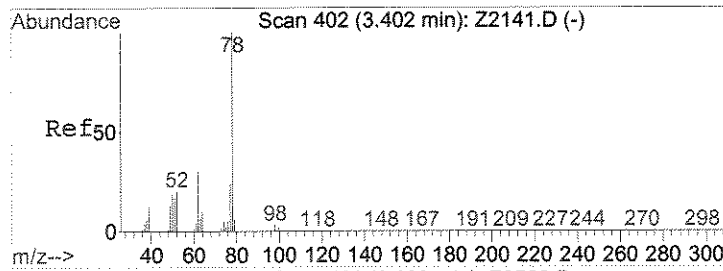
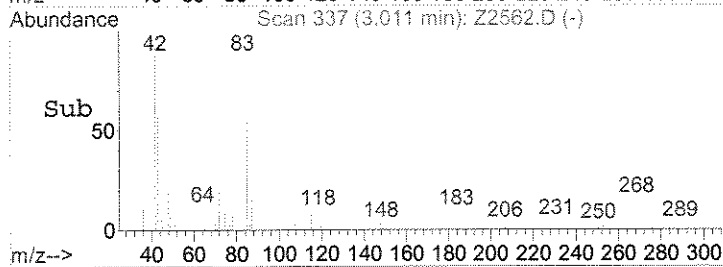


#40
 Tetrahydrofuran
 Concen: 0.62 ppb
 RT: 3.01 min Scan# 337
 Delta R.T. -0.01 min
 Lab File: Z2562.D
 Acq: 24 Jun 2008 6:22 pm

Tgt Ion: 42 Resp: 1126
 Ion Ratio Lower Upper
 42 100
 72 0.0 24.6 45.8#

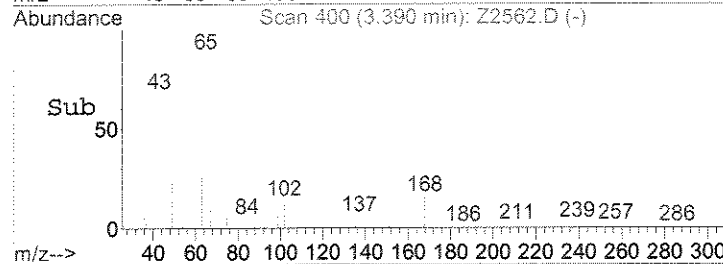
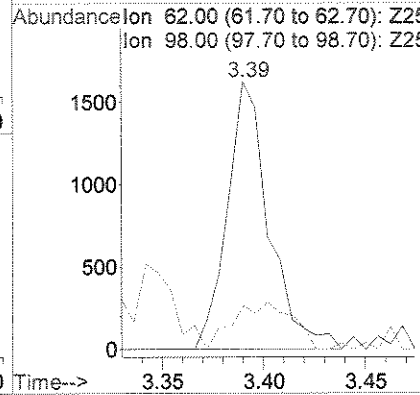
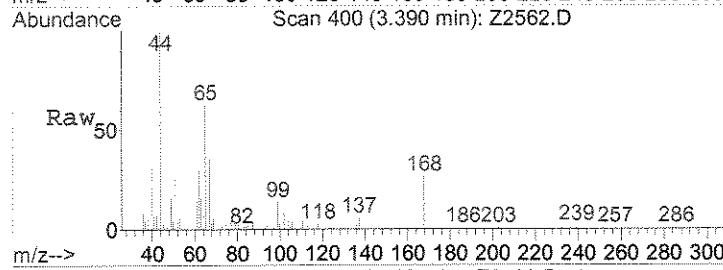


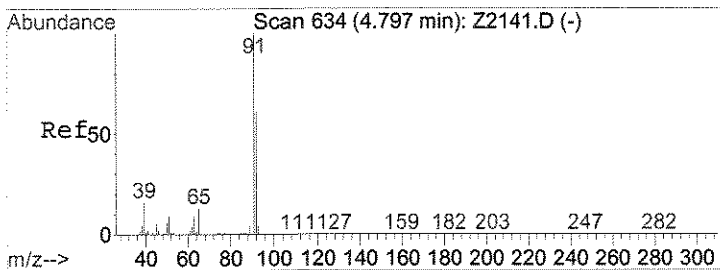
NT



#50
 1,2-Dichloroethane
 Concen: 0.24 ppb
 RT: 3.39 min Scan# 400
 Delta R.T. -0.01 min
 Lab File: Z2562.D
 Acq: 24 Jun 2008 6:22 pm

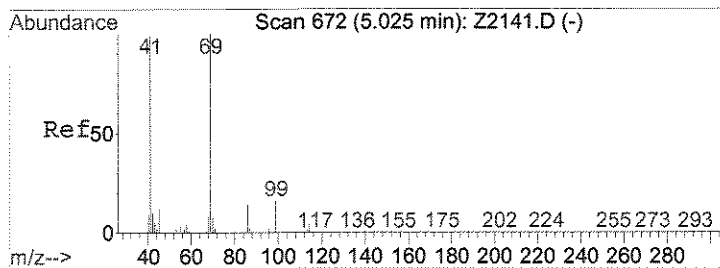
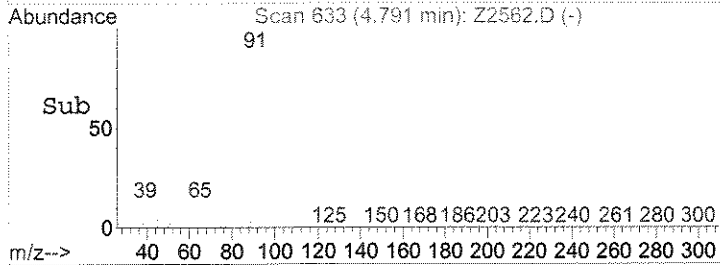
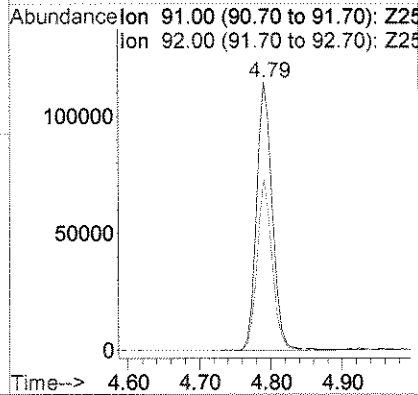
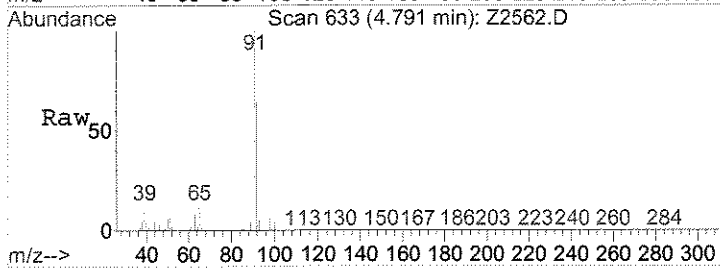
Tgt Ion: 62 Resp: 2325
 Ion Ratio Lower Upper
 62 100
 98 16.3 8.3 12.5#





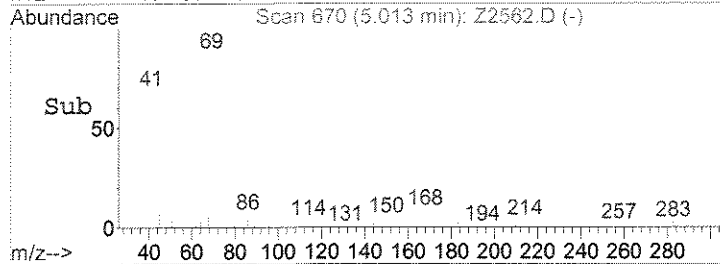
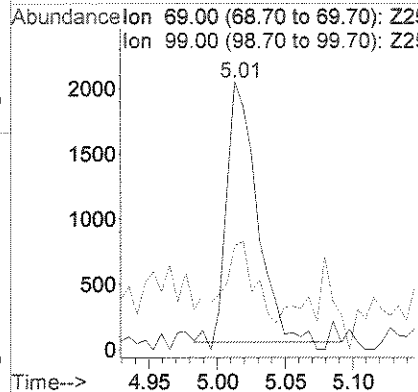
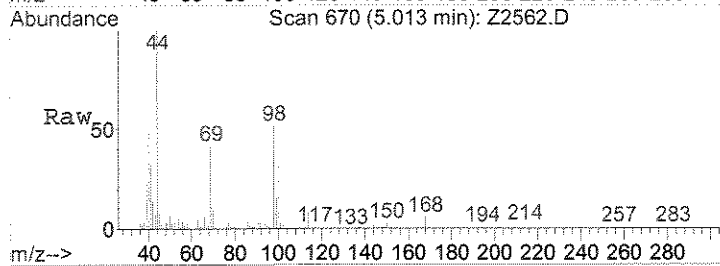
#65
 Toluene
 Concen: 5.36 ppb
 RT: 4.79 min Scan# 633
 Delta R.T. -0.01 min
 Lab File: Z2562.D
 Acq: 24 Jun 2008 6:22 pm

Tgt Ion	Resp	Lower	Upper
91	174067	100	
92	64.1	48.6	72.8

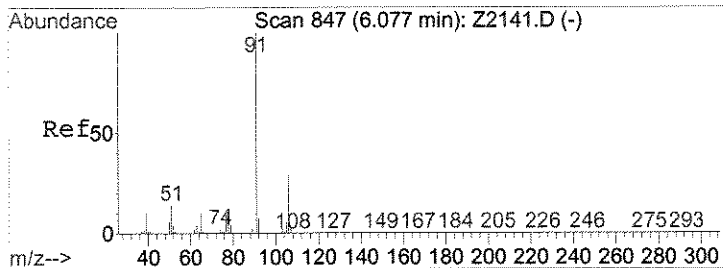


#67
 Ethyl Methacrylate
 Concen: 0.39 ppb
 RT: 5.01 min Scan# 670
 Delta R.T. -0.02 min
 Lab File: Z2562.D
 Acq: 24 Jun 2008 6:22 pm

Tgt Ion	Resp	Lower	Upper
69	3089	100	
99	39.0	12.4	20.6#

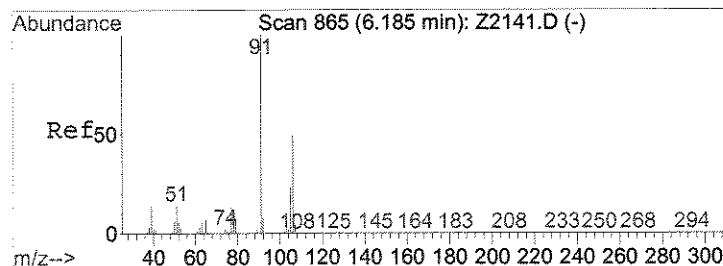
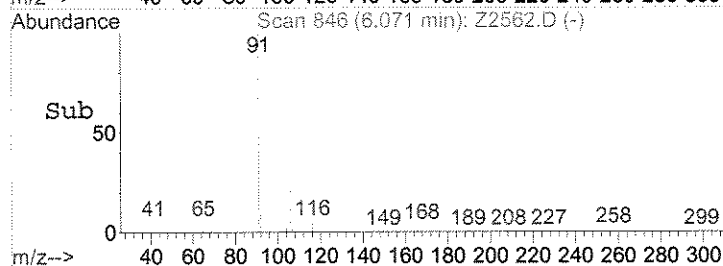
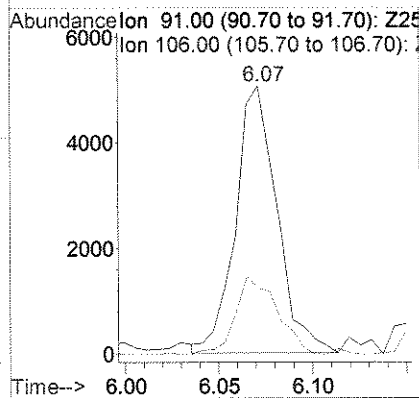
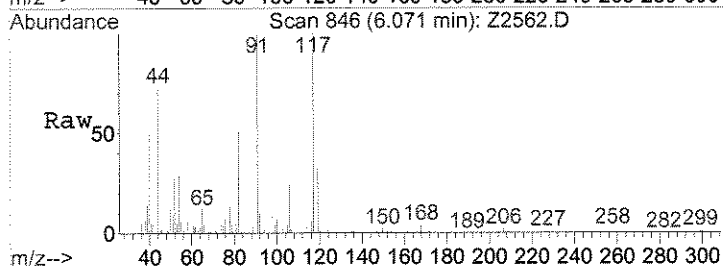


NT



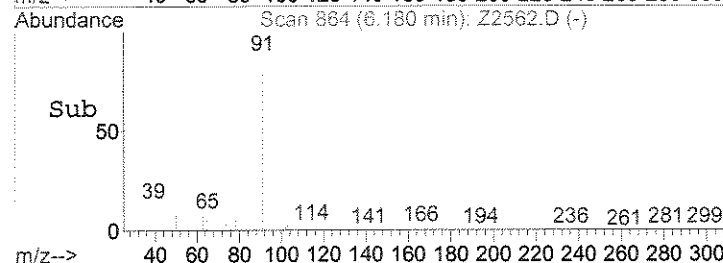
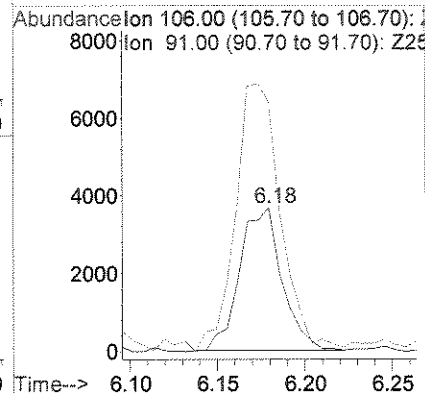
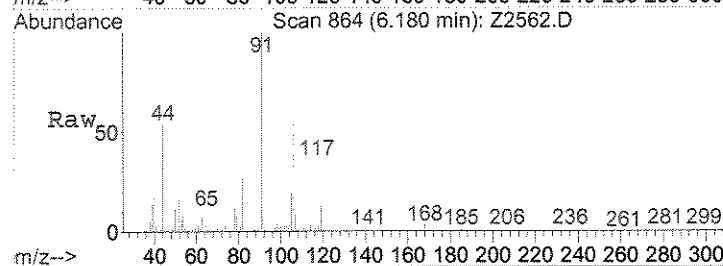
#78
 Ethylbenzene
 Concen: 0.22 ppb
 RT: 6.07 min Scan# 846
 Delta R.T. -0.01 min
 Lab File: Z2562.D
 Acq: 24 Jun 2008 6:22 pm

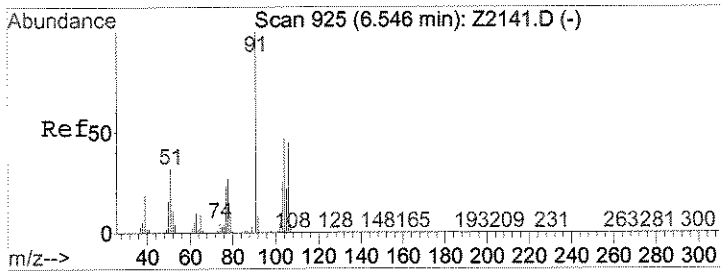
Tgt Ion	Resp	Lower	Upper
91	7721		
106	26.0	23.1	34.7



#79
 (m+p)Xylene
 Concen: 0.49 ppb
 RT: 6.18 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: Z2562.D
 Acq: 24 Jun 2008 6:22 pm

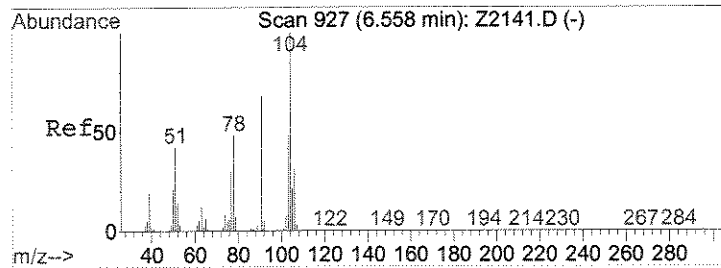
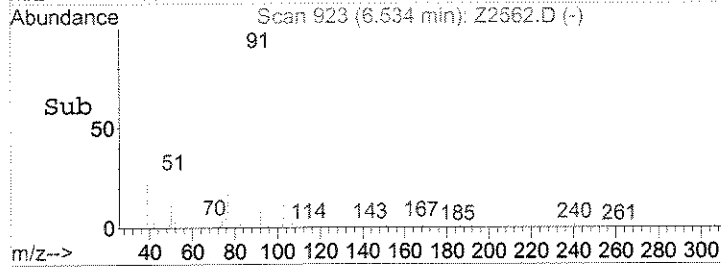
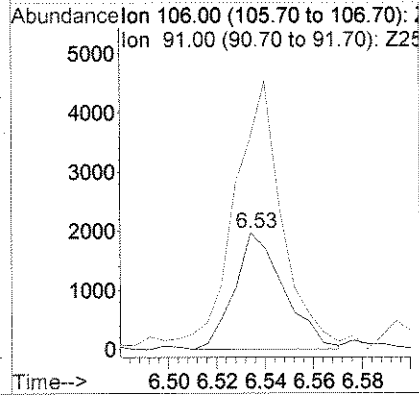
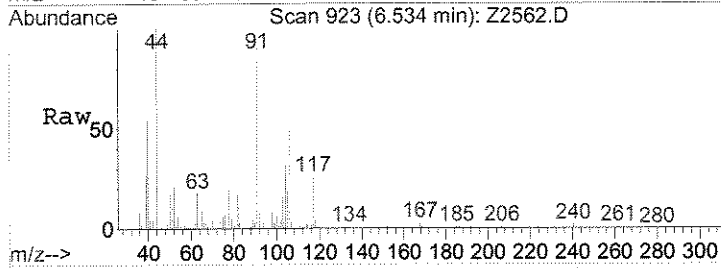
Tgt Ion	Resp	Lower	Upper
106	6149		
91	174.2	165.4	248.0





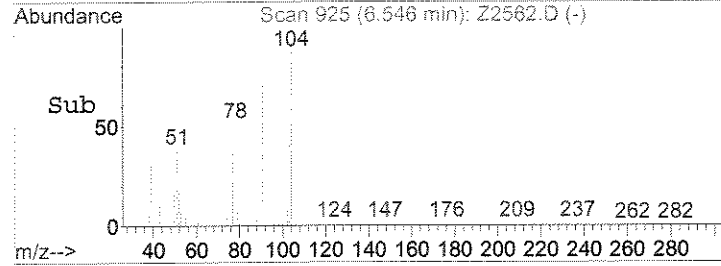
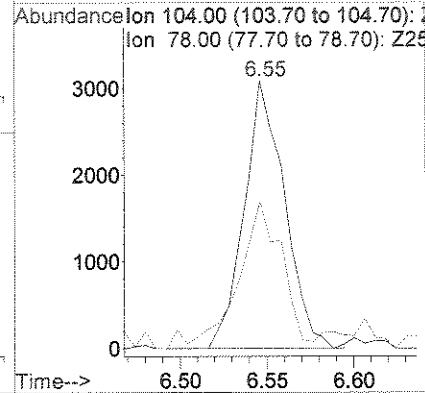
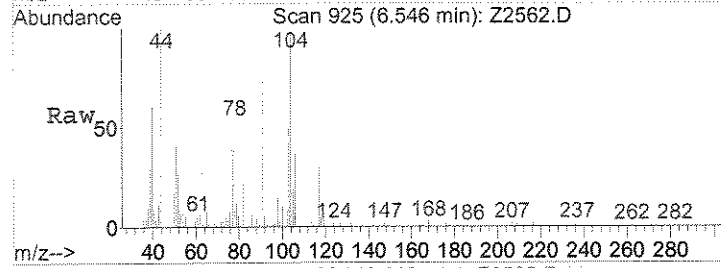
#80
 o-Xylene
 Concen: 0.24 ppb
 RT: 6.53 min Scan# 923
 Delta R.T. -0.02 min
 Lab File: Z2562.D
 Acq: 24 Jun 2008 6:22 pm

Tgt Ion	Ratio	Lower	Upper
106	100		
91	180.8	179.6	269.4



#81
 Styrene
 Concen: 0.25 ppb
 RT: 6.55 min Scan# 925
 Delta R.T. -0.02 min
 Lab File: Z2562.D
 Acq: 24 Jun 2008 6:22 pm

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.9	38.2	57.4



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-40B

Date Sampled : 06/18/08 13:00 Order #: 1110532 Sample Matrix: WATER
 Date Received: 06/19/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
ANALYTICAL DILUTION:	1.00		
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	0.46 J	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.6	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	7.5	UG/L
1,4-DICHLOROBENZENE	2.0	7.6	UG/L
1,3-DICHLOROBENZENE	2.0	1.6 J	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	15	UG/L
1,2-DICHLOROETHANE	1.0	0.48 J	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-40B

Date Sampled : 06/18/08 13:00 Order #: 1110532 Sample Matrix: WATER
Date Received: 06/19/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
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	3.9	UG/L
TOLUENE	1.0	1.1	UG/L
1,2,4-TRICHLOROBENZENE	2.0	7.6	UG/L
1,2,3-TRICHLOROBENZENE	2.0	1.7 J	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	3.5	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 %)	106	%
TOLUENE-D8	(70 - 130 %)	100	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	99	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2563.D Vial: 22
 Acq On : 24 Jun 2008 6:50 pm Operator: Herring
 Sample : 1110532 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 19:02 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	728599	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1330464	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.95	117	1164734	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	480680	50.00	ppb	-0.01

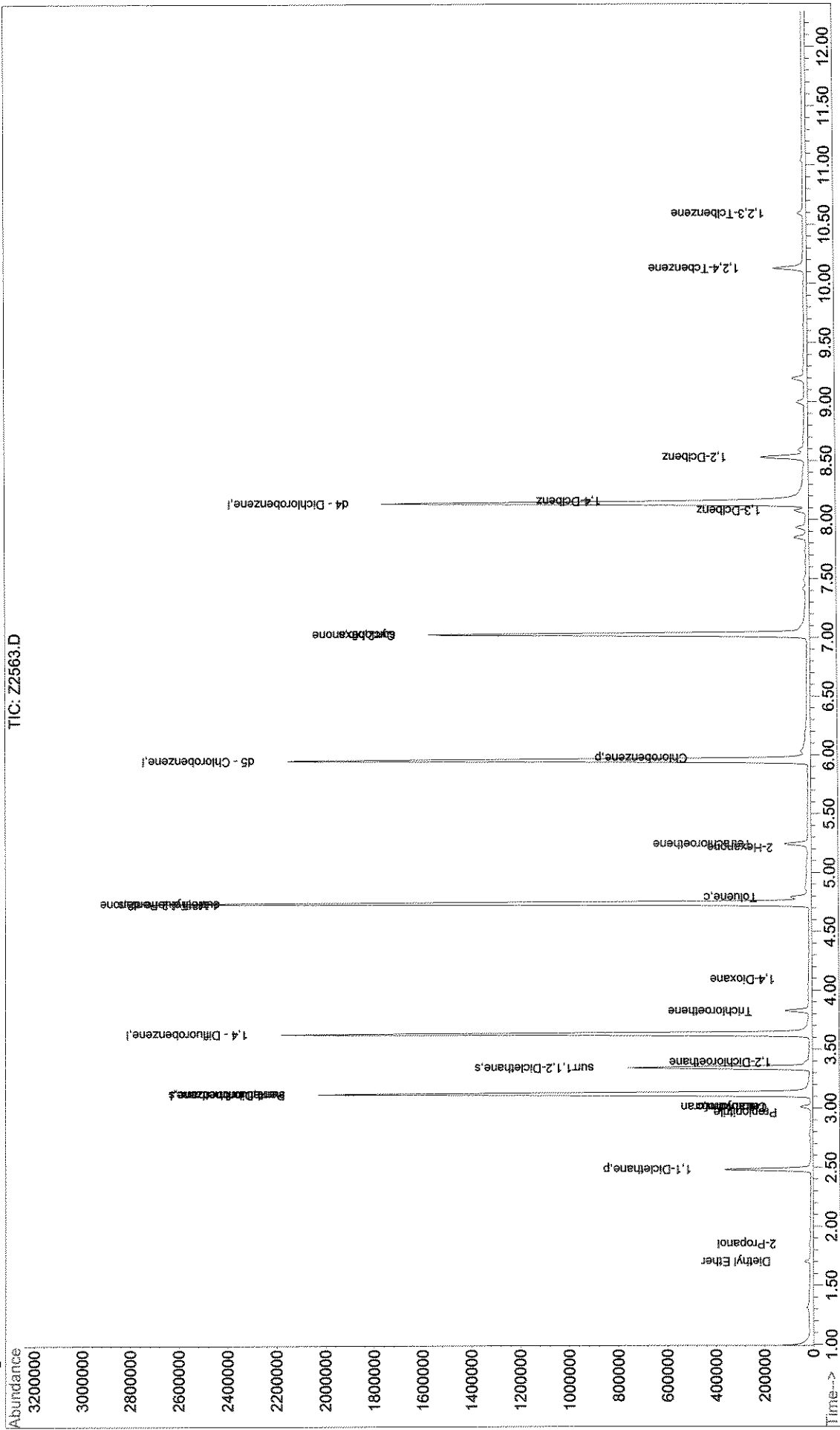
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) surr4,Dibrflmethane	3.11	113	392412	49.37	ppb	0.00
Spiked Amount 50.000			Recovery =	98.74%		
48) surr1,1,2-Diclethane	3.34	65	369001	44.33	ppb	0.00
Spiked Amount 50.000			Recovery =	88.66%		
69) surr3,Toluene-d8	4.74	98	1496048	49.76	ppb	-0.01
Spiked Amount 50.000			Recovery =	99.52%		
70) surr2,bfb	7.03	95	566392	53.14	ppb	-0.01
Spiked Amount 50.000			Recovery =	106.28%		

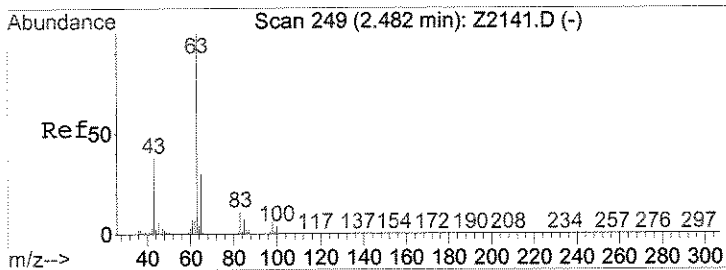
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Diethyl Ether	1.70	59	7819	1.26	ppb	# 67 NT
16) Acetone	1.85	43	1802	Below Cal		# 84
17) 2-Propanol	1.86	45	2720	9.41	ppb	# 74
28) 1,1-Diclethane	2.48	63	260595	14.65	ppb	100
36) Propionitrile	2.96	54	209	0.30	ppb	97
39) Chloroform	3.01	83	23092	1.58	ppb	94
40) Tetrahydrofuran	3.02	42	1006	0.56	ppb	# 40
50) 1,2-Dichloroethane	3.40	62	4505	0.48	ppb	# 93 J
53) Trichloroethene	3.82	95	26333	3.48	ppb	91
57) 1,4-Dioxane	4.09	88	719	23.68	ppb	# 8
64) 4-Methyl-2-Pentanone	4.74	43	8937	1.36	ppb	# 1
65) Toluene	4.79	91	36530	1.13	ppb	92
71) Tetrachloroethene	5.25	166	25595	3.92	ppb	94
72) 2-Hexanone	5.21	43	1193	0.28	ppb	94
76) Chlorobenzene	5.98	112	8880	0.46	ppb	# 94 J
84) Cyclohexanone	7.02	55	1574	3.42	ppb	99
99) 1,3-Dclbenz	8.08	146	19823	1.65	ppb	95 J
100) 1,4-Dclbenz	8.16	146	93816	7.59	ppb	93
103) 1,2-Dclbenz	8.53	146	80730	7.51	ppb	95
106) 1,2,4-Tcbenzene	10.13	180	42833	7.62	ppb	83
109) 1,2,3-Tclbenzene	10.59	180	8343	1.74	ppb	93 J

BH
7/7

Data File : J:\ACQDATA\MSVOA8\DATA\062408\Z2563.D Vial: 22
Acq On : 24 Jun 2008 6:50 pm Operator: Herring
Sample : 1110532 1.0 Inst : MS #8
Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 19:02 2008 Quant Results File: W060208.RES

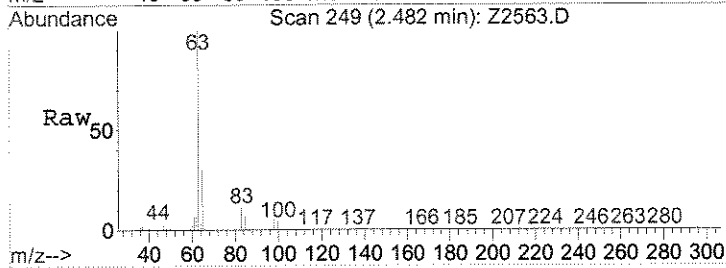
Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voca
Last Update : Tue Jun 03 13:30:30 2008
Response via : Initial Calibration



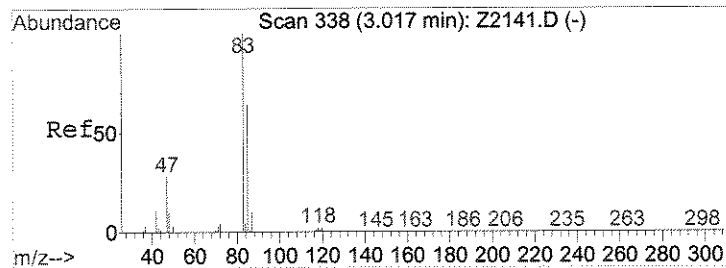
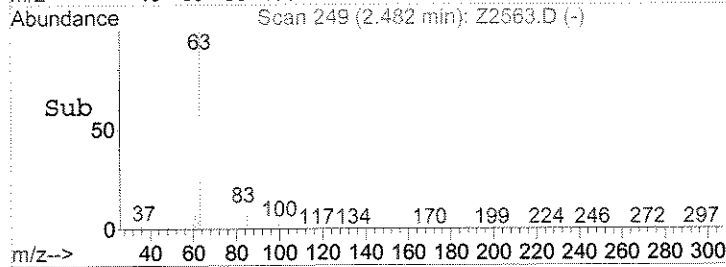
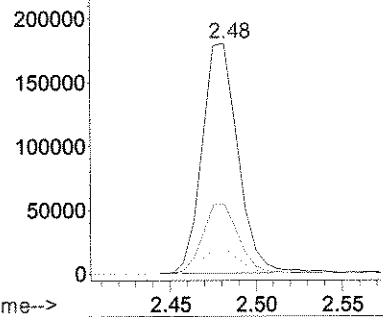


#28
 1,1-Dicylethane
 Concen: 14.65 ppb
 RT: 2.48 min Scan# 249
 Delta R.T. -0.00 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.1	36.1
83	10.9	9.1	13.7

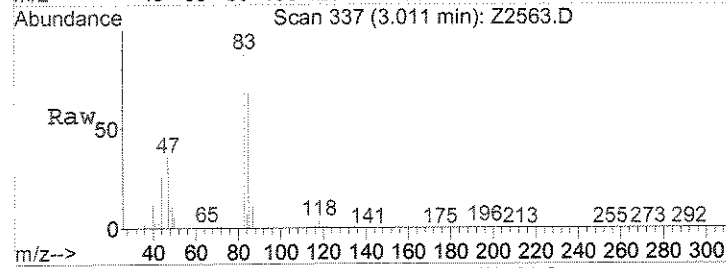


Abundance Ion 63.00 (62.70 to 63.70): Z25
 Ion 65.00 (64.70 to 65.70): Z25
 Ion 83.00 (82.70 to 83.70): Z25

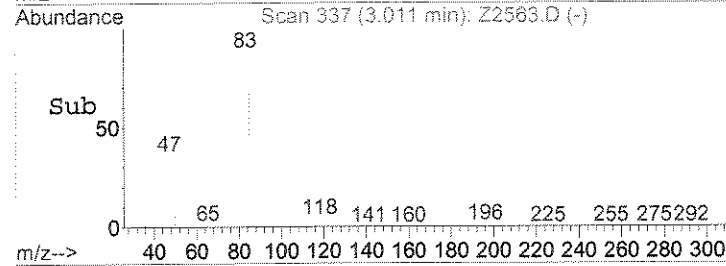
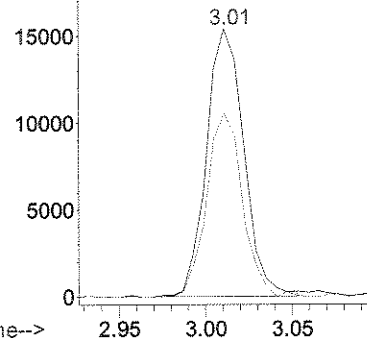


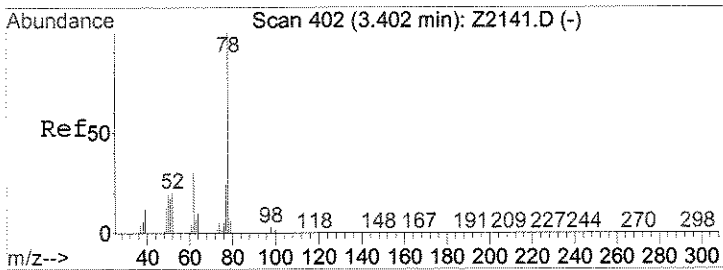
#39
 Chloroform
 Concen: 1.58 ppb
 RT: 3.01 min Scan# 337
 Delta R.T. -0.01 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.4	51.3	76.9



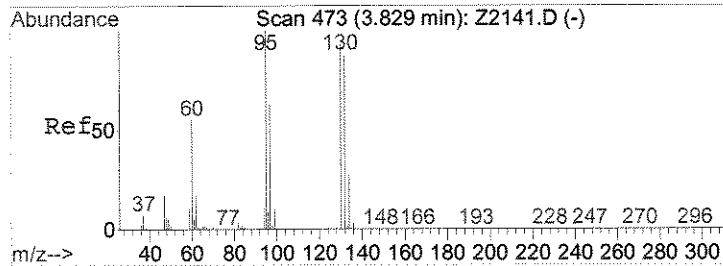
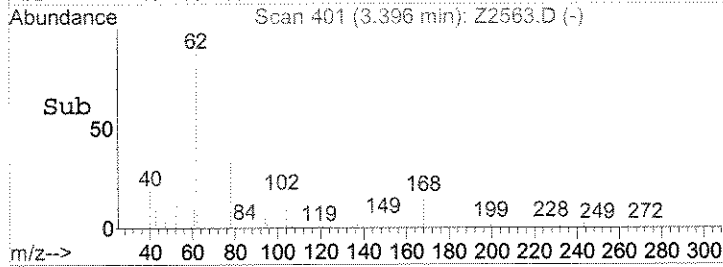
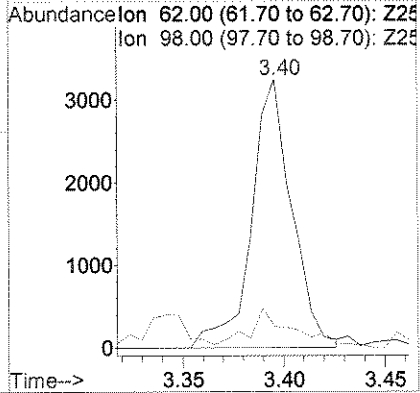
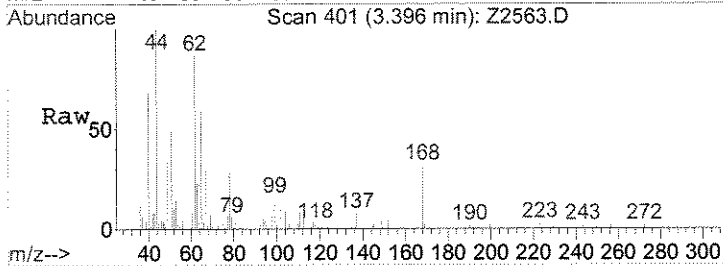
Abundance Ion 83.00 (82.70 to 83.70): Z25
 Ion 85.00 (84.70 to 85.70): Z25





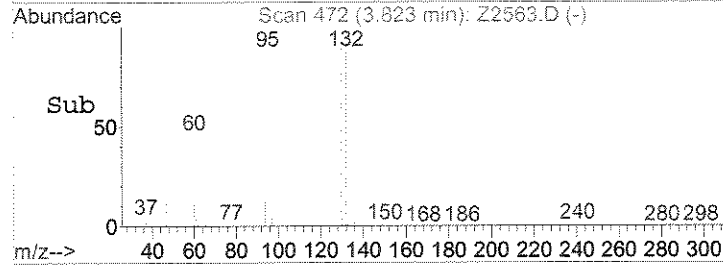
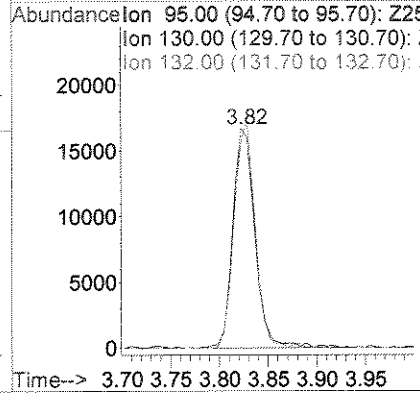
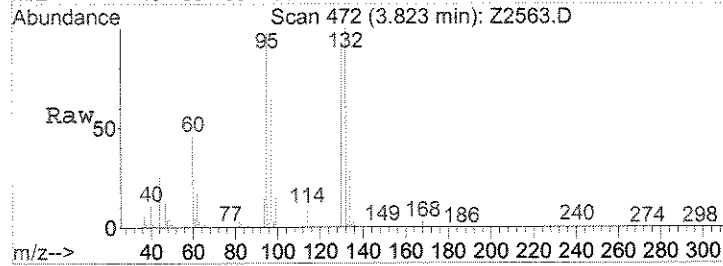
#50
 1,2-Dichloroethane
 Concen: 0.48 ppb
 RT: 3.40 min Scan# 401
 Delta R.T. -0.01 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

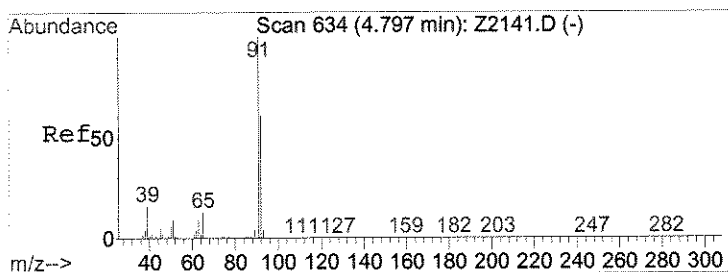
Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.8	8.3	12.5#



#53
 Trichloroethene
 Concen: 3.48 ppb
 RT: 3.82 min Scan# 472
 Delta R.T. -0.01 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

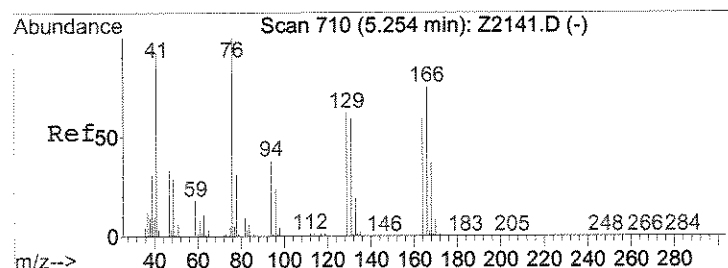
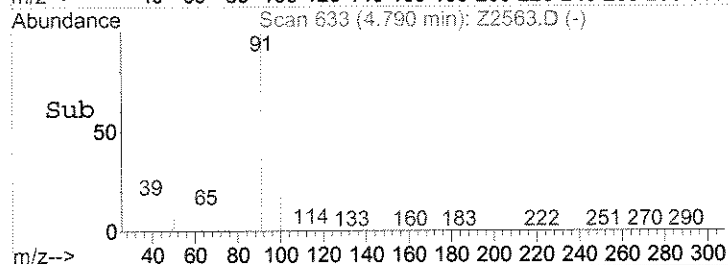
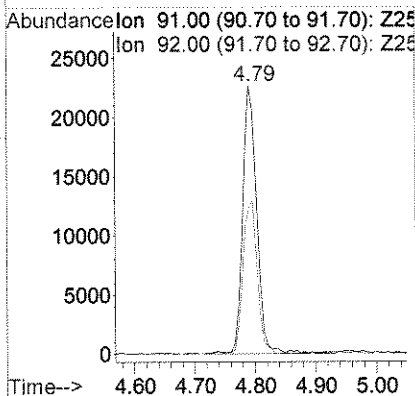
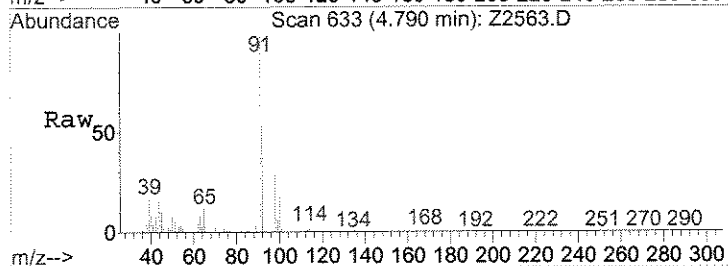
Tgt Ion	Ratio	Lower	Upper
95	100		
130	94.2	74.2	111.4
132	101.8	69.4	104.2





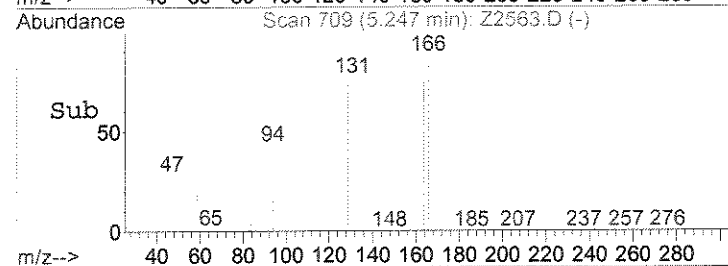
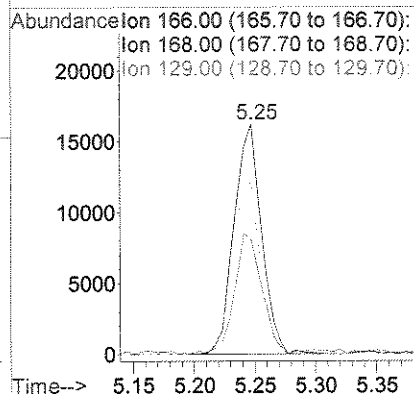
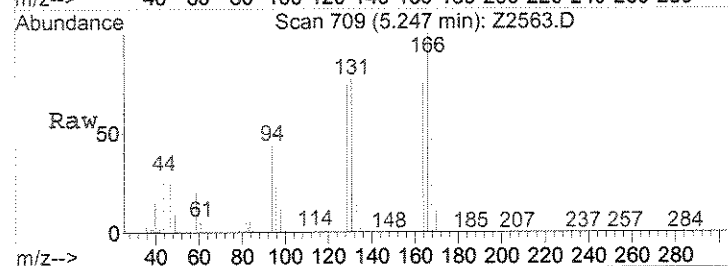
#65
 Toluene
 Concen: 1.13 ppb
 RT: 4.79 min Scan# 633
 Delta R.T. -0.01 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

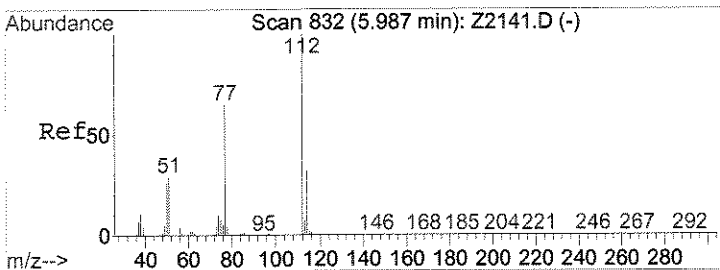
Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	48.6	72.8



#71
 Tetrachloroethene
 Concen: 3.92 ppb
 RT: 5.25 min Scan# 709
 Delta R.T. -0.01 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

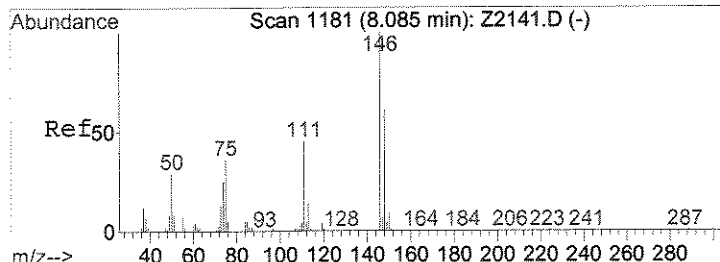
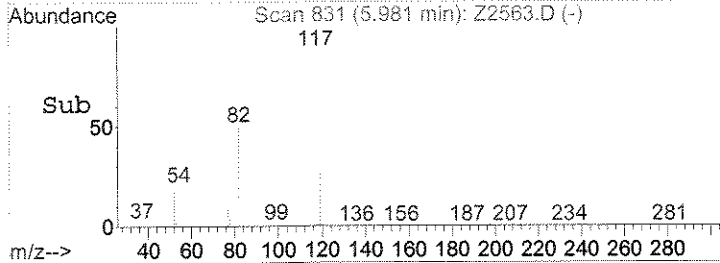
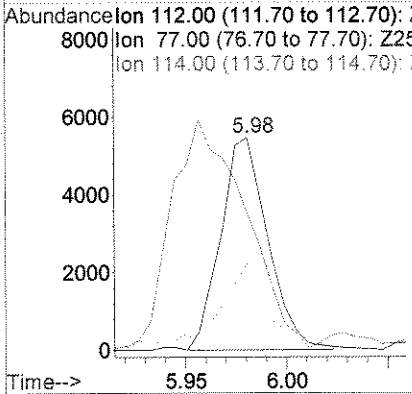
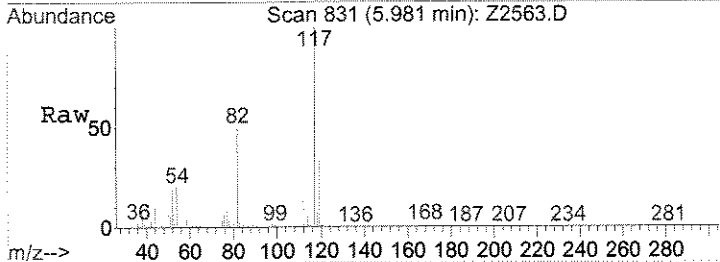
Tgt Ion	Ratio	Lower	Upper
166	100		
168	49.3	39.1	58.7
129	74.2	66.1	99.1





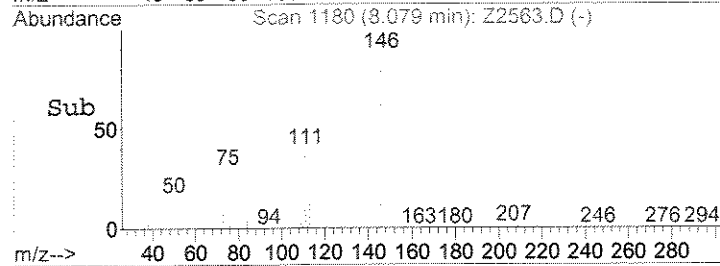
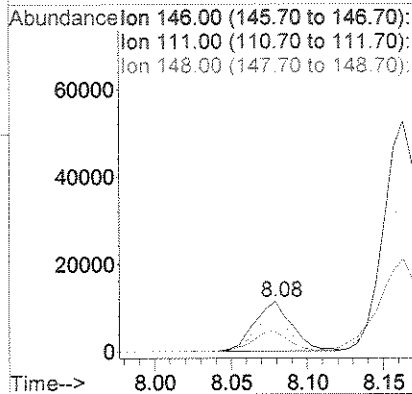
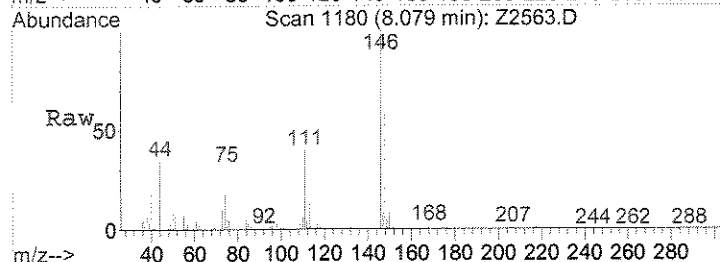
#76
 Chlorobenzene
 Concen: 0.46 ppb
 RT: 5.98 min Scan# 831
 Delta R.T. -0.01 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

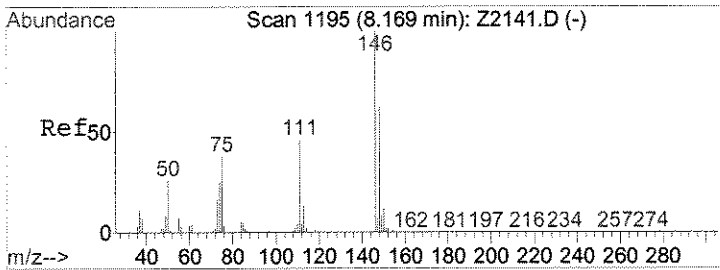
Tgt Ion	Ratio	Lower	Upper
112	100		
77	64.2	52.4	78.6
114	41.0	25.6	38.4#



#99
 1,3-Diclbz
 Concen: 1.65 ppb
 RT: 8.08 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

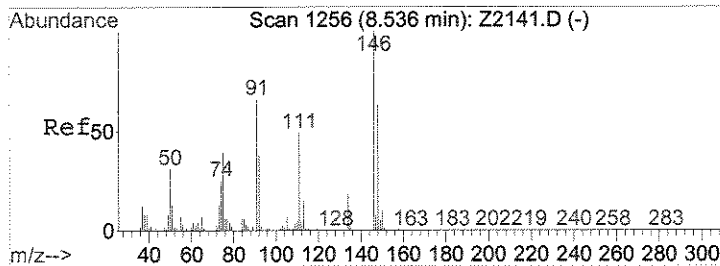
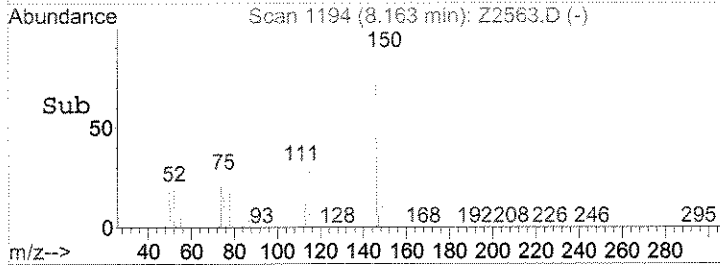
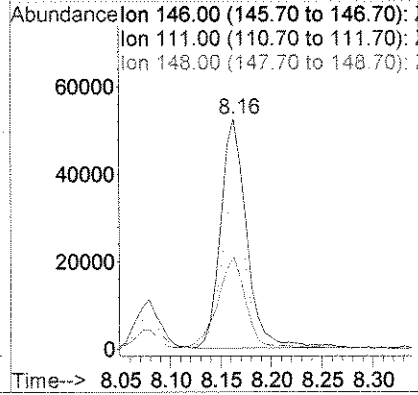
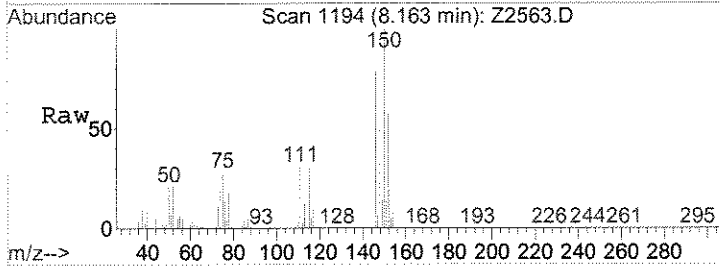
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	36.3	54.5
148	59.2	49.0	73.4





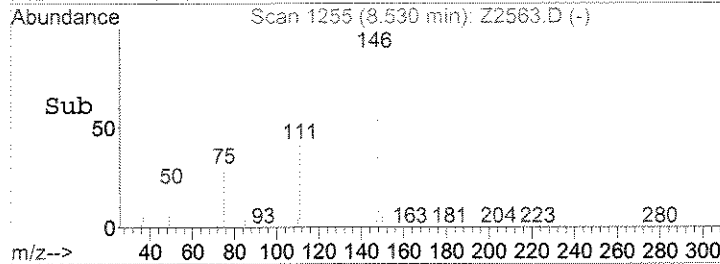
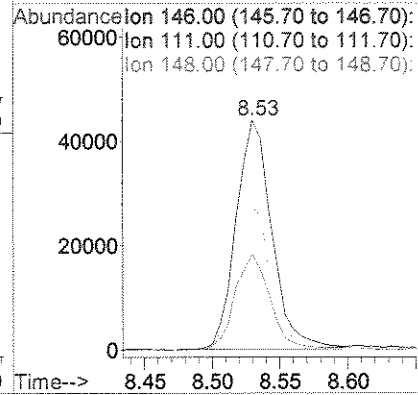
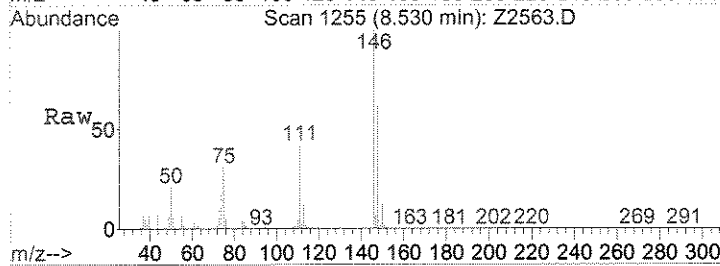
#100
 1,4-Dclbenz
 Concen: 7.59 ppb
 RT: 8.16 min Scan# 1194
 Delta R.T. -0.01 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

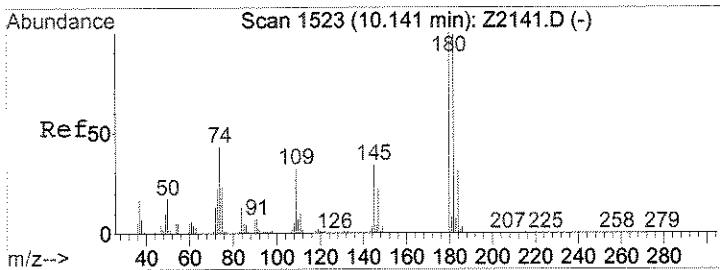
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	37.1	55.7
148	65.5	49.4	74.2



#103
 1,2-Dclbenz
 Concen: 7.51 ppb
 RT: 8.53 min Scan# 1255
 Delta R.T. -0.01 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

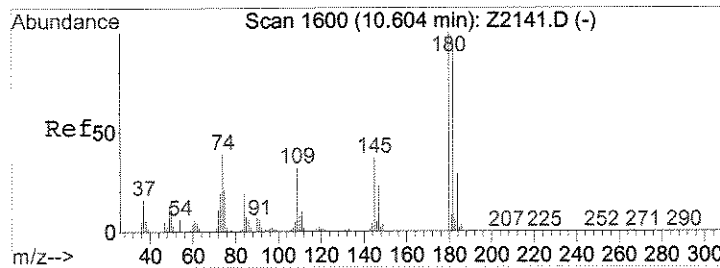
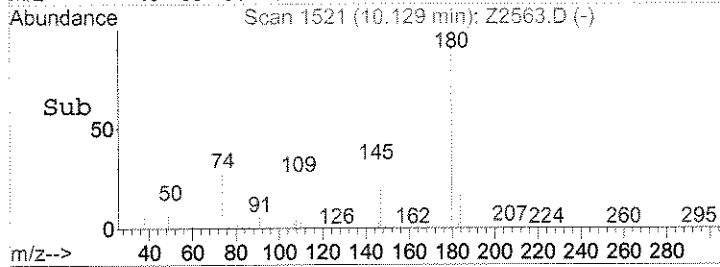
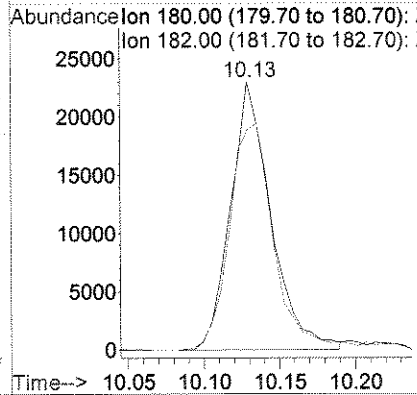
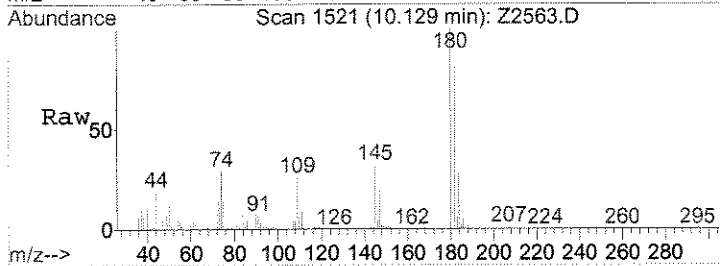
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	39.1	58.7
148	61.8	50.2	75.2





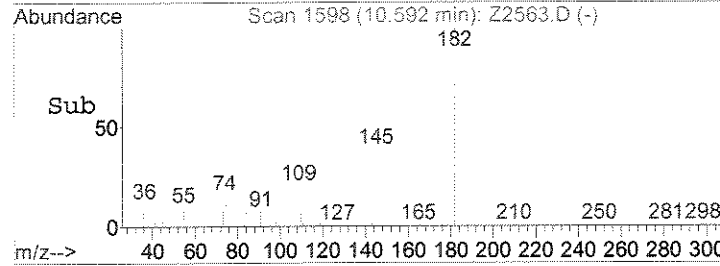
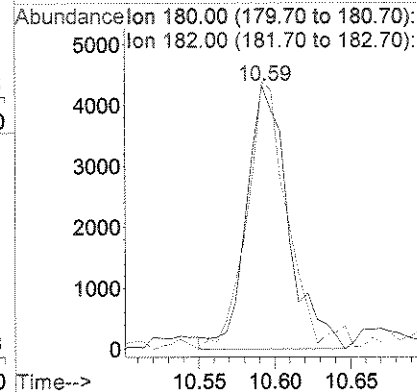
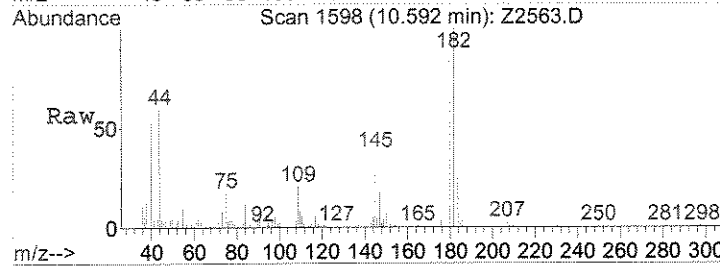
#106
 1,2,4-Tc benzene
 Concen: 7.62 ppb
 RT: 10.13 min Scan# 1521
 Delta R.T. -0.01 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

Tgt Ion: 180 Resp: 42833
 Ion Ratio Lower Upper
 180 100
 182 82.0 79.1 118.7



#109
 1,2,3-Tc benzene
 Concen: 1.74 ppb
 RT: 10.59 min Scan# 1598
 Delta R.T. -0.01 min
 Lab File: Z2563.D
 Acq: 24 Jun 2008 6:50 pm

Tgt Ion: 180 Resp: 8343
 Ion Ratio Lower Upper
 180 100
 182 101.5 75.4 113.2



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : H-48B

Date Sampled : 06/19/08 10:30 Order #: 1110981 Sample Matrix: WATER
Date Received: 06/20/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	21	UG/L
BENZENE	1.0	2.5	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	4.2 J	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	1.5	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	0.82 J	UG/L
1, 4-DICHLOROBENZENE	2.0	1.0 J	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : H-48B

Date Sampled : 06/19/08 10:30 Order #: 1110981 Sample Matrix: WATER
 Date Received: 06/20/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
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	0.29 J	UG/L
1,2,4-TRICHLOROBENZENE	2.0	0.79 J	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 %)	105	%
TOLUENE-D8	(70 - 130 %)	100	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	99	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2564.D Vial: 23
 Acq On : 24 Jun 2008 7:17 pm Operator: Herring
 Sample : 1110981 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 19:29 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	697631	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1286834	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.95	117	1127758	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	454295	50.00	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) surr4, Dibrflmethane	3.11	113	379564	49.37	ppb	0.00
Spiked Amount 50.000			Recovery =	98.74%		
48) surr1, 1,2-Dicethane	3.34	65	365239	45.36	ppb	0.00
Spiked Amount 50.000			Recovery =	90.72%		
69) surr3, Toluene-d8	4.74	98	1461502	50.20	ppb	-0.01
Spiked Amount 50.000			Recovery =	100.40%		
70) surr2, bfb	7.03	95	542162	52.54	ppb	-0.01
Spiked Amount 50.000			Recovery =	105.08%		

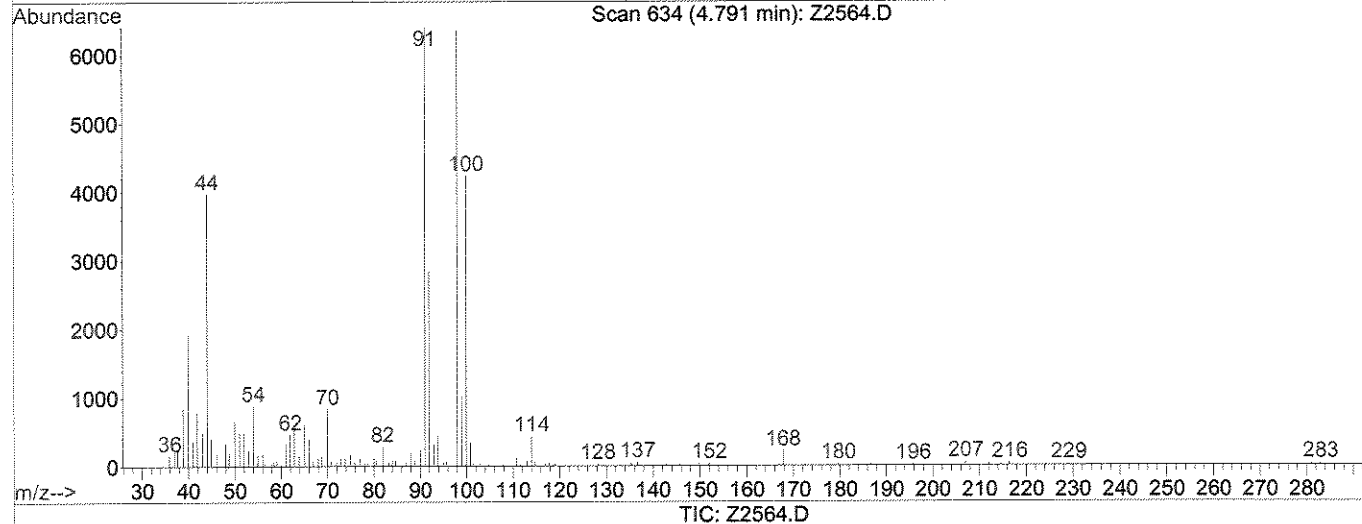
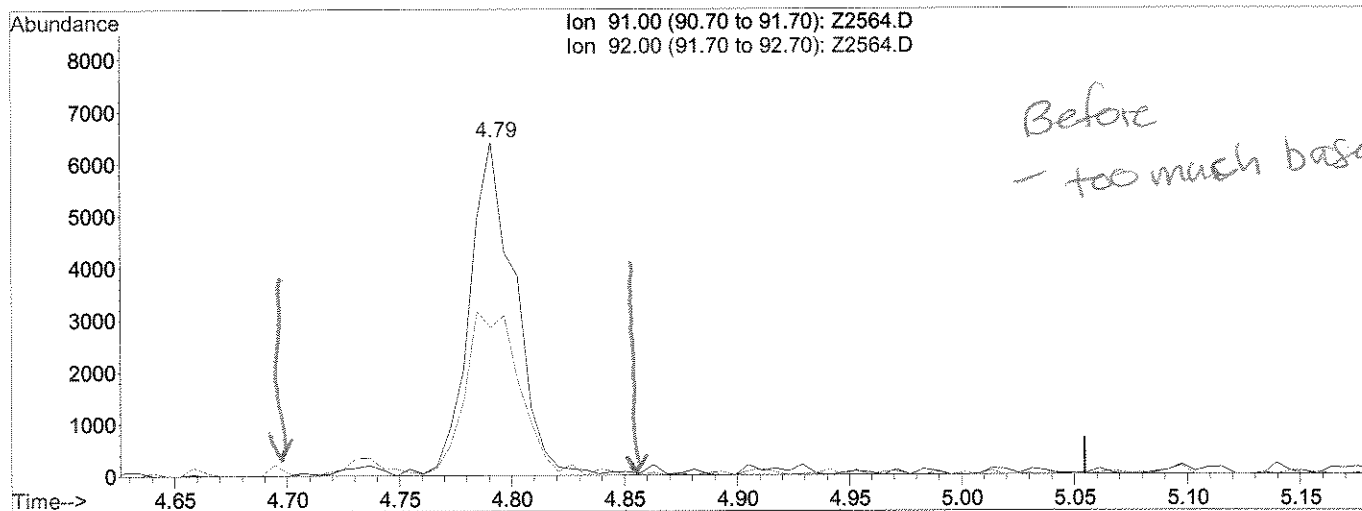
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	1.85	43	34940	21.43	ppb	# 87
20) Acetonitrile	1.94	40	1039	2.50	ppb	# 1
24) TBA	2.13	59	1238	3.12	ppb	# 3
34) 2-Butanone	2.82	43	12917	4.23	ppb	93
40) Tetrahydrofuran	3.02	42	730	0.43	ppb	# 40
47) Iso-Butyl Alcohol	3.20	43	1640	8.94	ppb	87
49) Benzene	3.39	78	74426	2.47	ppb	93
52) N-Heptane	3.55	43	5097	0.36	ppb	# 80
57) 1,4-Dioxane	4.11	88	430	14.64	ppb	# 8
60) 2-Nitropropane	4.42	43	1039	0.64	ppb	# 85
65) Toluene	4.79	91	9396	0.30	ppb	# 79
72) 2-Hexanone	5.31	43	1352	0.33	ppb	# 79
76) Chlorobenzene	5.98	112	27419	1.47	ppb	97
84) Cyclohexanone	7.02	55	2024	4.55	ppb	# 89
100) 1,4-Dclbenz	8.16	146	12285	1.05	ppb	# 83
103) 1,2-Dclbenz	8.53	146	8334	0.82	ppb	95
106) 1,2,4-Tclbenzene	10.13	180	4199	0.79	ppb	81
109) 1,2,3-Tclbenzene	10.59	180	947	0.21	ppb	81

PS #
7/7

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2564.D Vial: 23
Acq On : 24 Jun 2008 7:17 pm Operator: Herring
Sample : 1110981 1.0 Inst : MS #8
Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 7 16:01 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa
Last Update : Tue Jun 03 13:30:30 2008
Response via : Multiple Level Calibration



(65) Toluene (c)

4.79min 0.30ppb

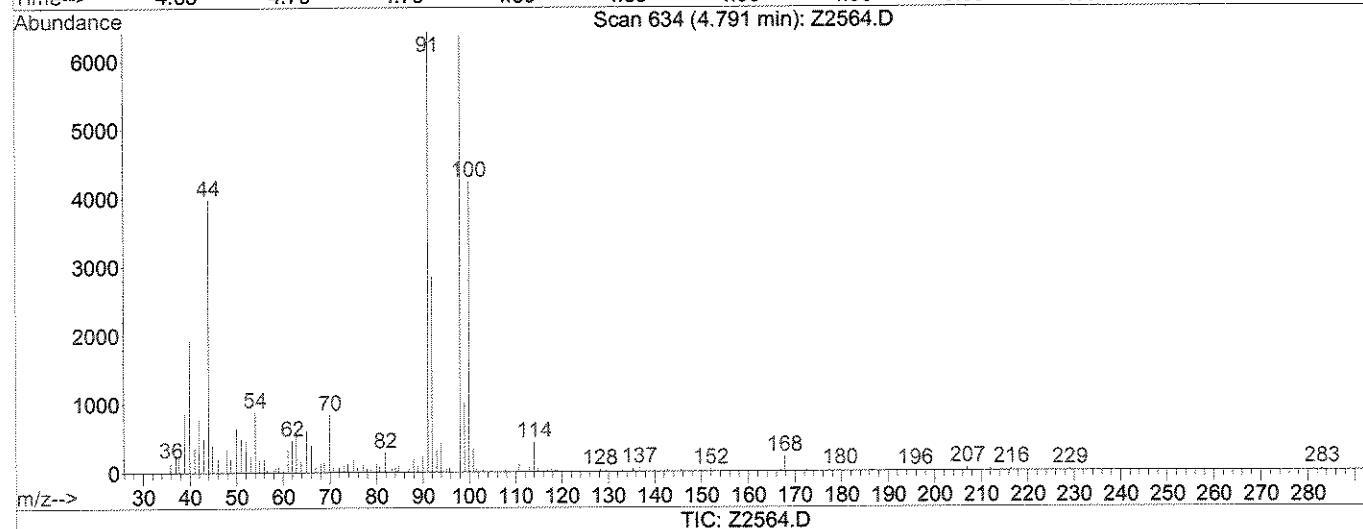
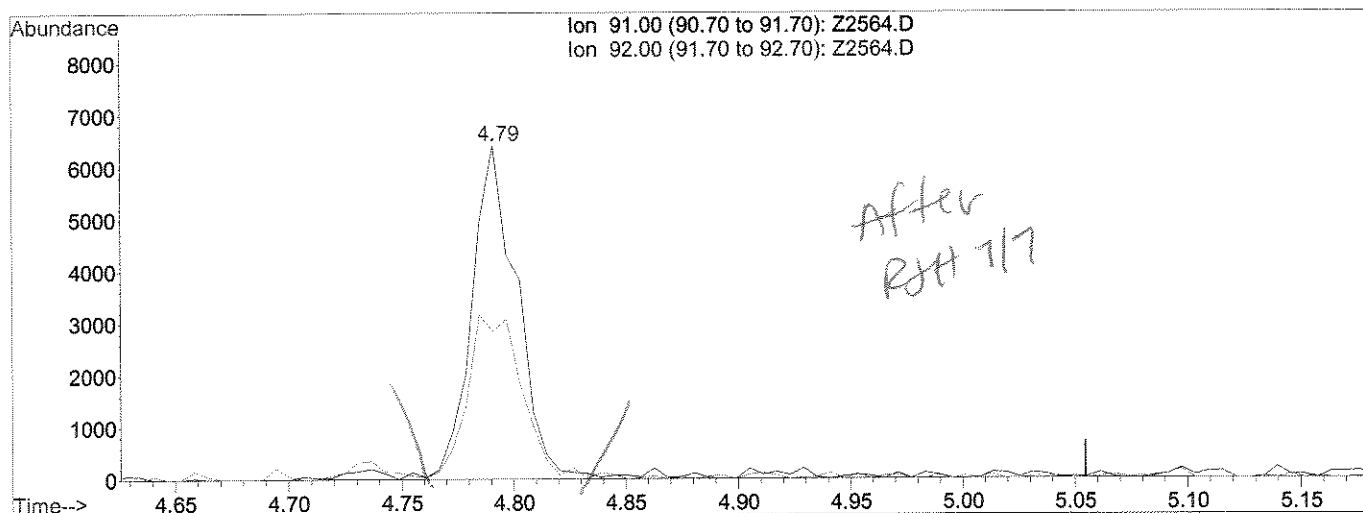
response 9396

Ion	Exp%	Act%
91.00	100	100
92.00	60.70	44.43#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2564.D Vial: 23
 Acq On : 24 Jun 2008 7:17 pm Operator: Herring
 Sample : 1110981 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 7 16:02 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(65) Toluene (c)

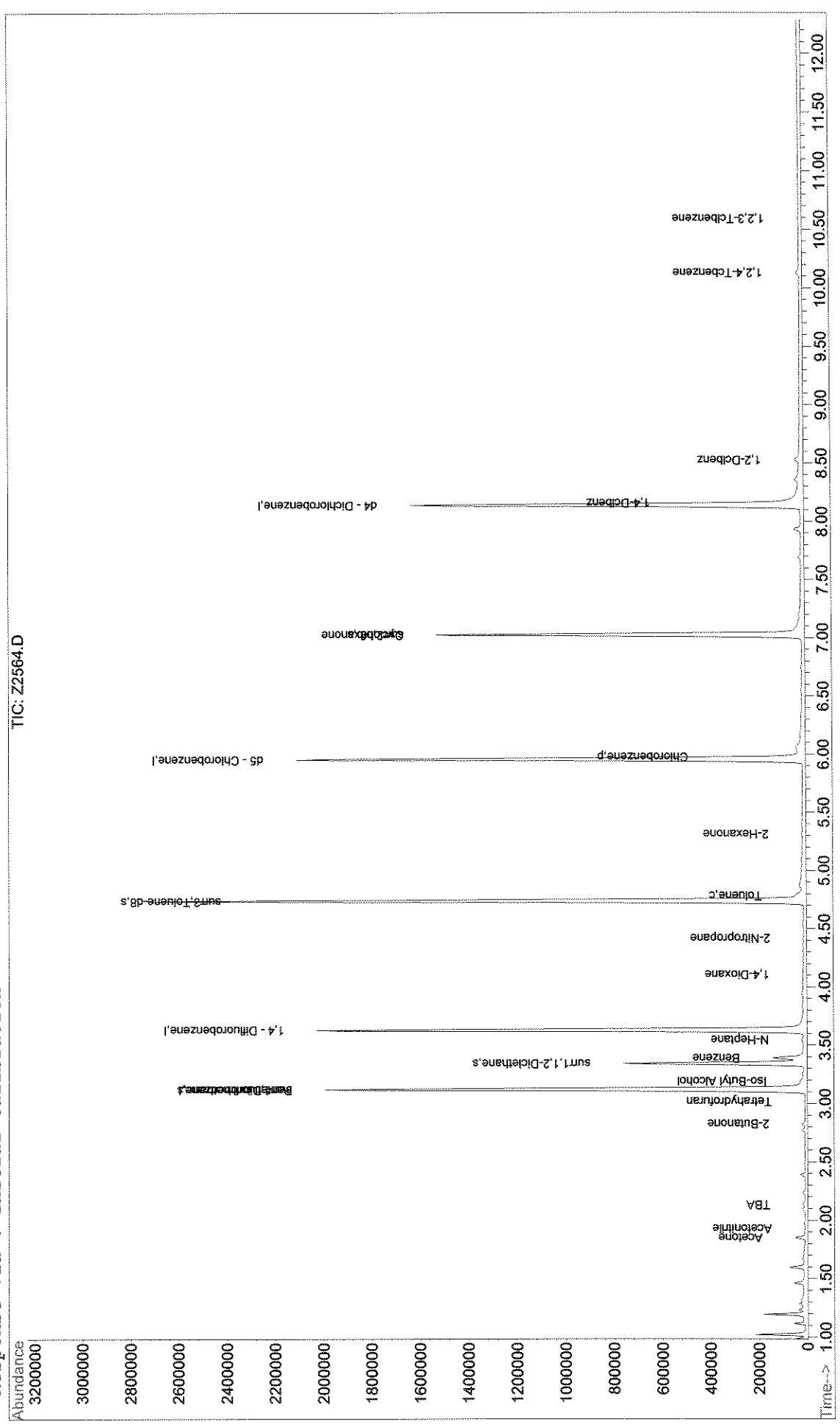
4.79min 0.29ppb m

response 8936

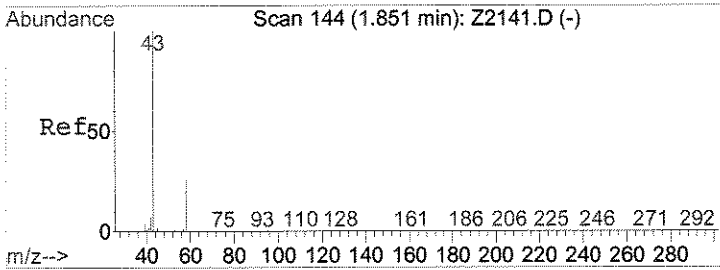
Ion	Exp%	Act%
91.00	100	100
92.00	60.70	44.43#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQDATA\MSVOA8\DATA\062408\Z2564.D Vial: 23
 Acq On : 24 Jun 2008 7:17 pm Operator: Herring
 Sample : 1110981 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 19:29 2008 Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260vca
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration

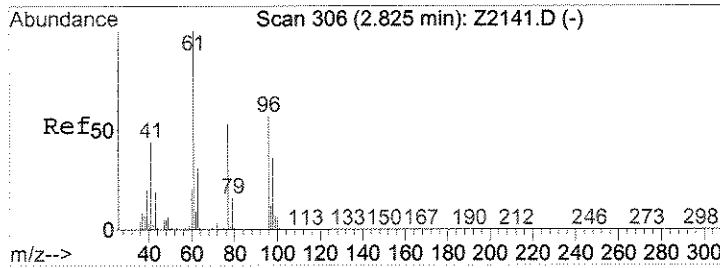
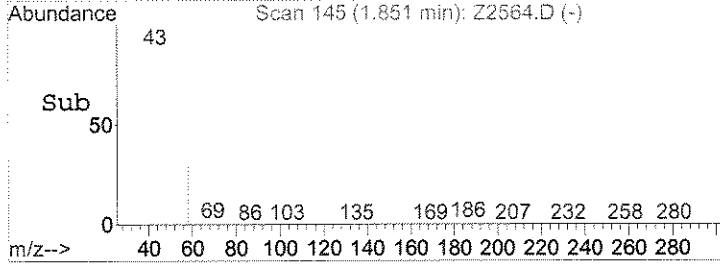
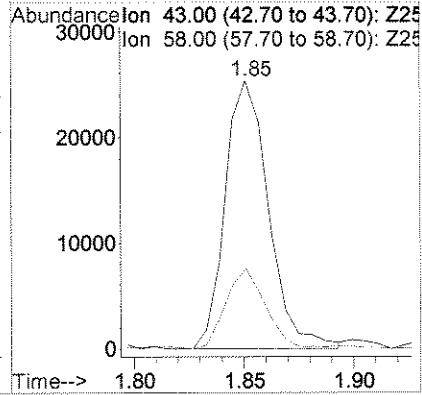
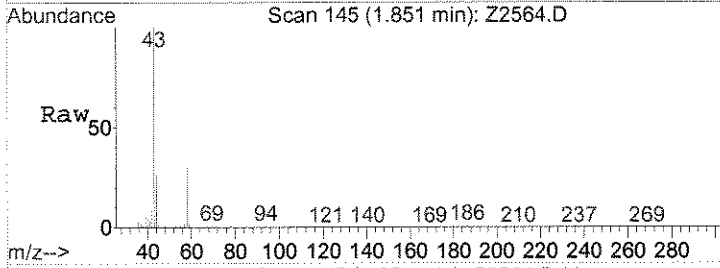


00122



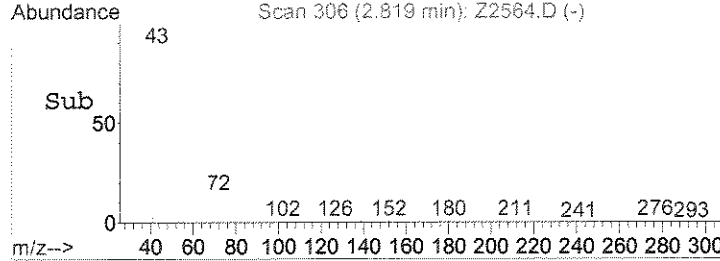
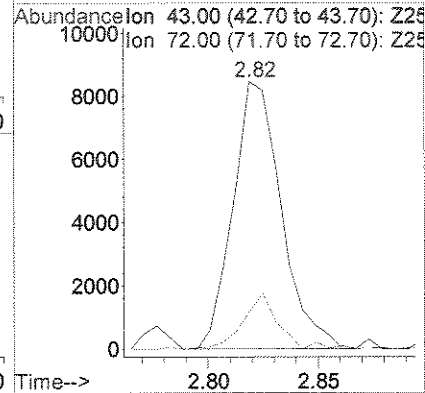
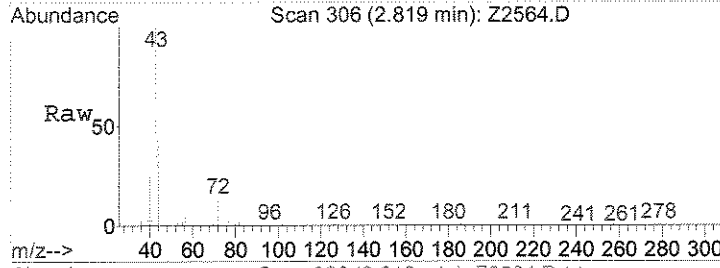
#16
 Acetone
 Concen: 21.43 ppb
 RT: 1.85 min Scan# 145
 Delta R.T. -0.00 min
 Lab File: Z2564.D
 Acq: 24 Jun 2008 7:17 pm

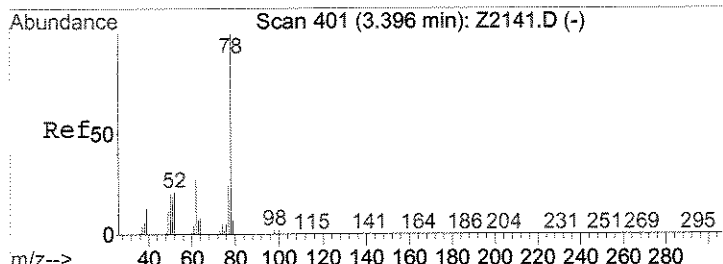
Tgt Ion: 43 Resp: 34940
 Ion Ratio Lower Upper
 43 100
 58 30.0 19.0 28.6#



#34
 2-Butanone
 Concen: 4.23 ppb
 RT: 2.82 min Scan# 306
 Delta R.T. -0.01 min
 Lab File: Z2564.D
 Acq: 24 Jun 2008 7:17 pm

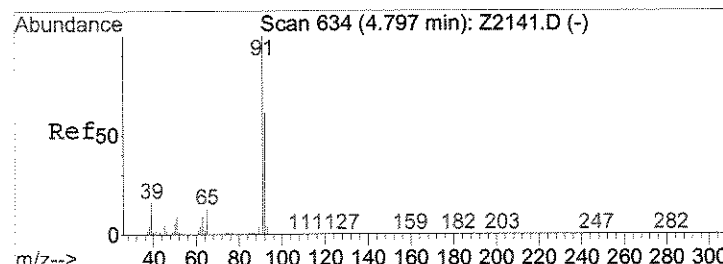
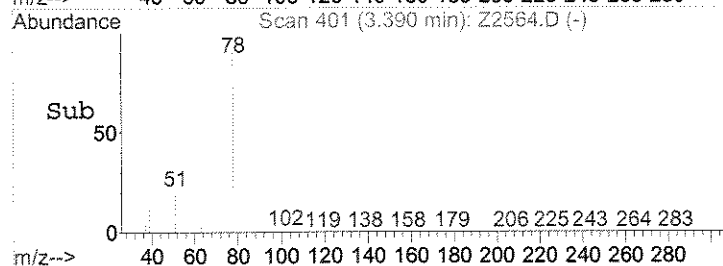
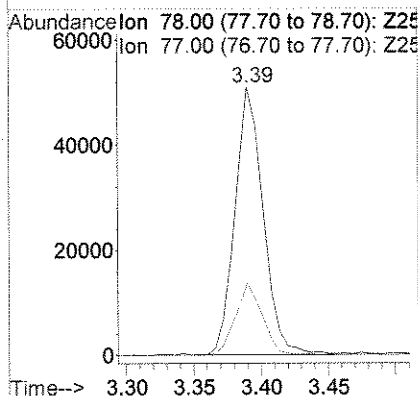
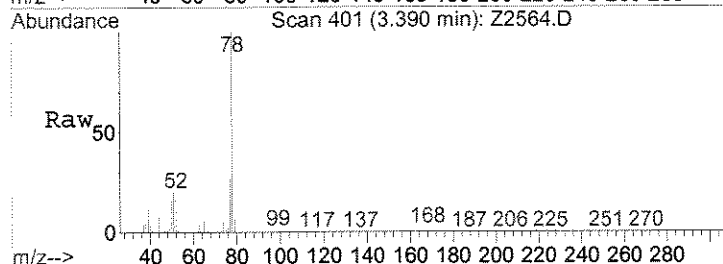
Tgt Ion: 43 Resp: 12917
 Ion Ratio Lower Upper
 43 100
 72 14.2 13.9 20.9





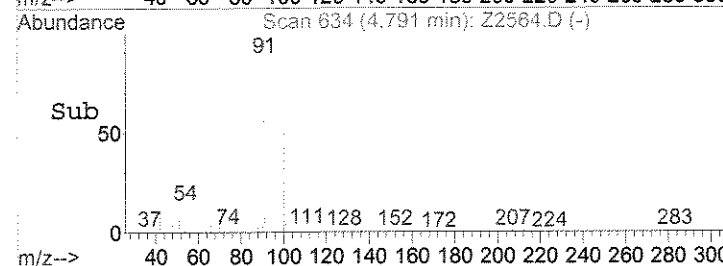
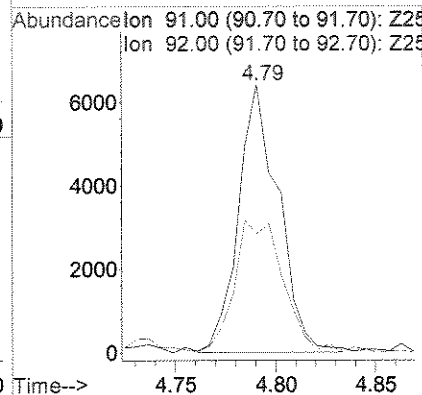
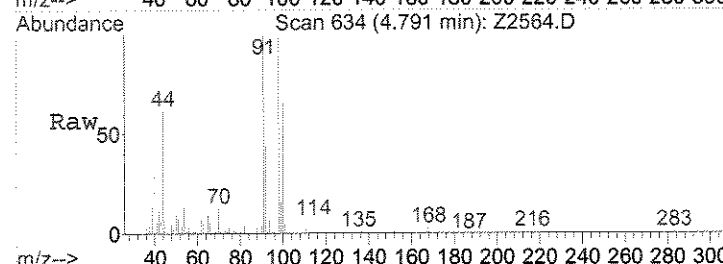
#49
Benzene
Concen: 2.47 ppb
RT: 3.39 min Scan# 401
Delta R.T. -0.01 min
Lab File: Z2564.D
Acq: 24 Jun 2008 7:17 pm

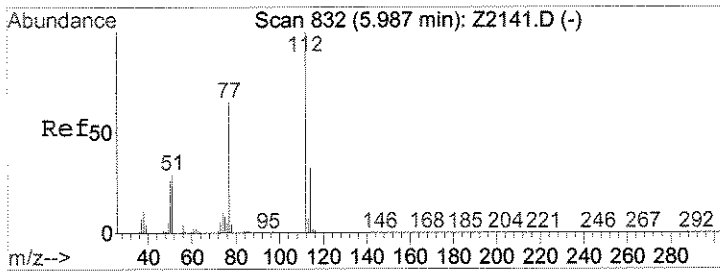
Tgt Ion: 78 Resp: 74426
Ion Ratio Lower Upper
78 100
77 27.0 16.6 30.8



#65
Toluene
Concen: 0.29 ppb m
RT: 4.79 min Scan# 634
Delta R.T. -0.01 min
Lab File: Z2564.D
Acq: 24 Jun 2008 7:17 pm

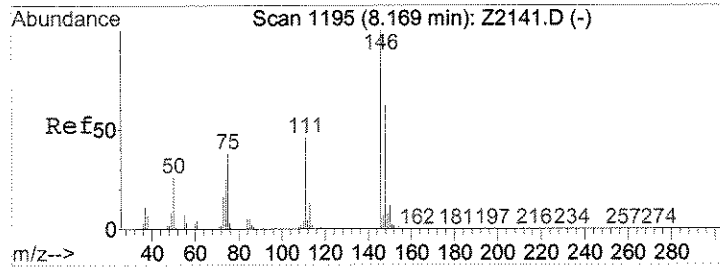
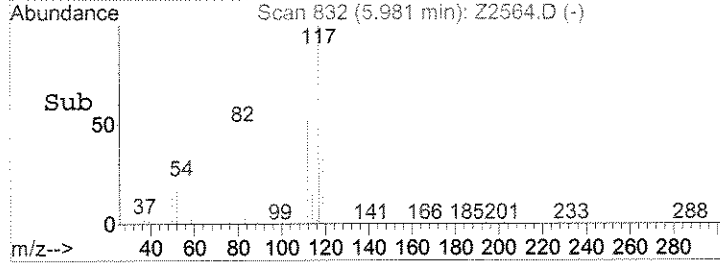
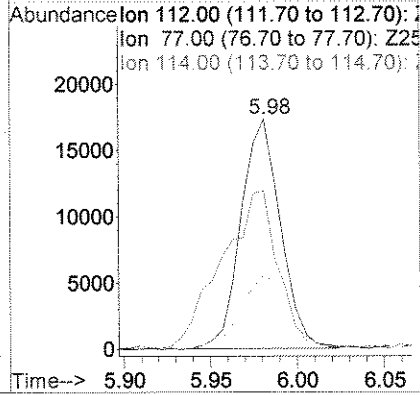
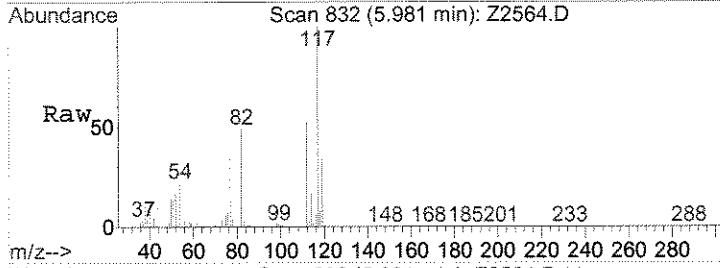
Tgt Ion: 91 Resp: 8936
Ion Ratio Lower Upper
91 100
92 44.4 48.6 72.8#





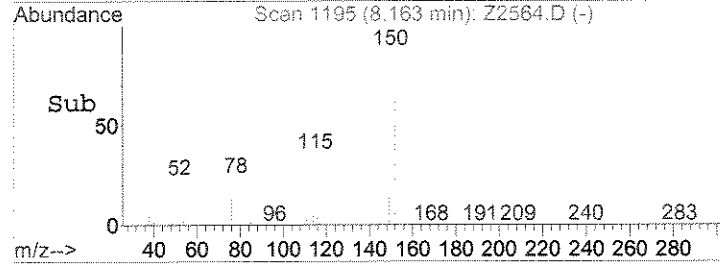
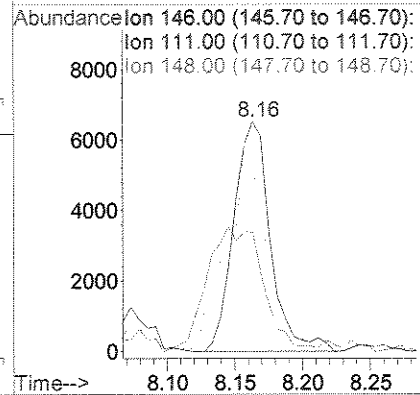
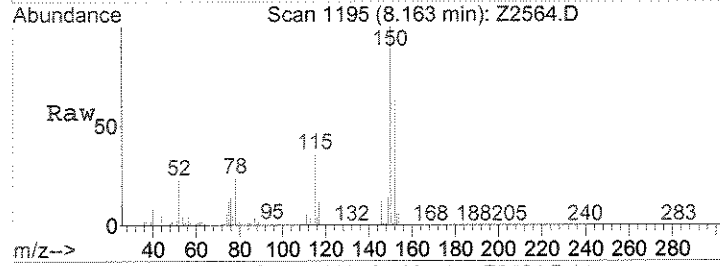
#76
 Chlorobenzene
 Concen: 1.47 ppb
 RT: 5.98 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: Z2564.D
 Acq: 24 Jun 2008 7:17 pm

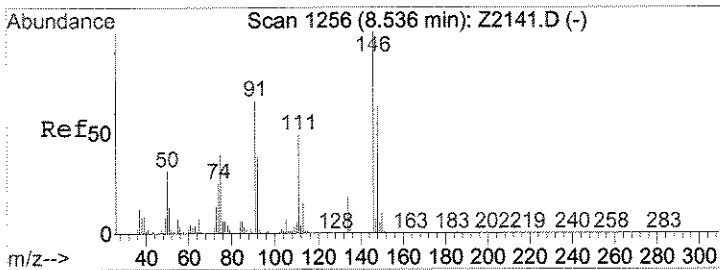
Tgt Ion	Ratio	Resp	Lower	Upper
112	100	27419		
77	68.6	52.4	78.6	
114	32.6	25.6	38.4	



#100
 1,4-Diclbz
 Concen: 1.05 ppb
 RT: 8.16 min Scan# 1195
 Delta R.T. -0.01 min
 Lab File: Z2564.D
 Acq: 24 Jun 2008 7:17 pm

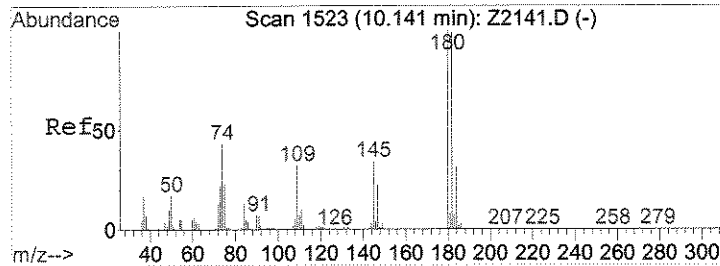
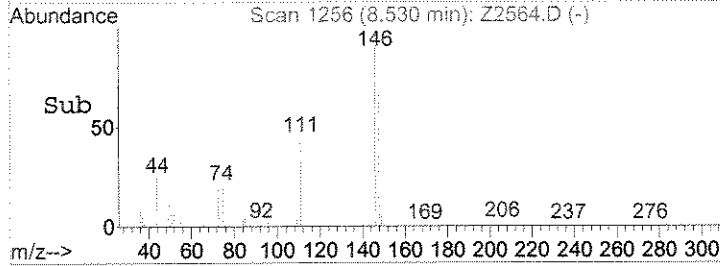
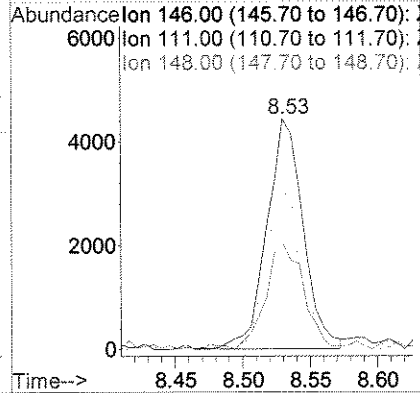
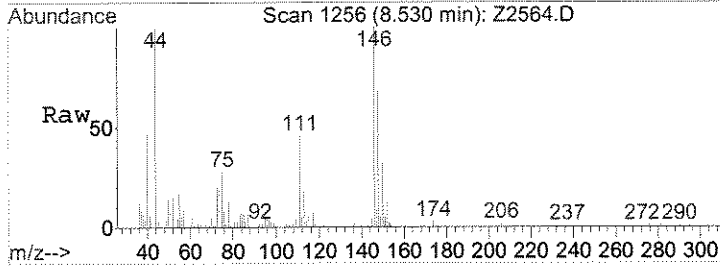
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	12285		
111	51.9	37.1	55.7	
148	79.5	49.4	74.2#	





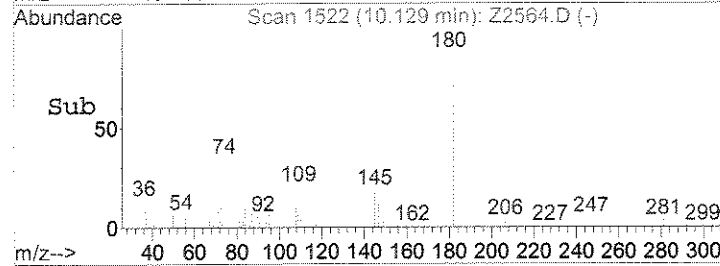
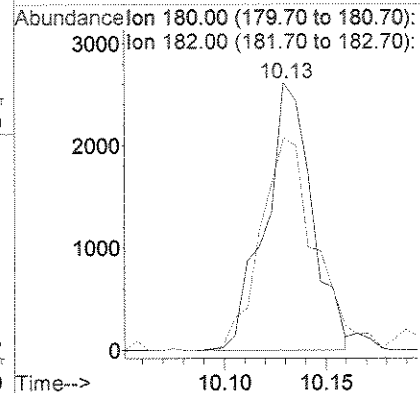
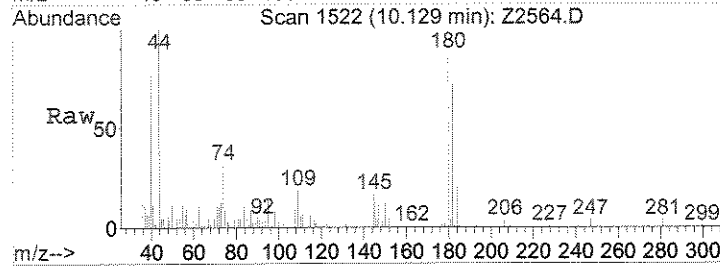
#103
 1,2-DcIbenz
 Concen: 0.82 ppb
 RT: 8.53 min Scan# 1256
 Delta R.T. -0.01 min
 Lab File: Z2564.D
 Acq: 24 Jun 2008 7:17 pm

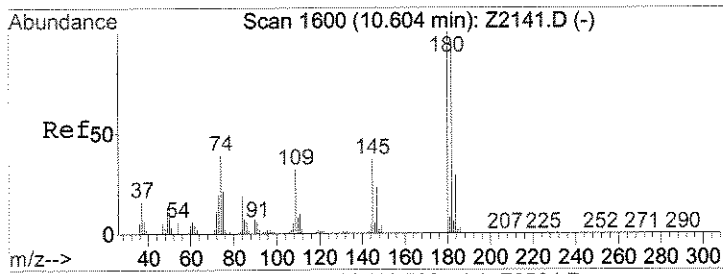
Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.8	39.1	58.7
148	67.6	50.2	75.2



#106
 1,2,4-TcIbenzene
 Concen: 0.79 ppb
 RT: 10.13 min Scan# 1522
 Delta R.T. -0.01 min
 Lab File: Z2564.D
 Acq: 24 Jun 2008 7:17 pm

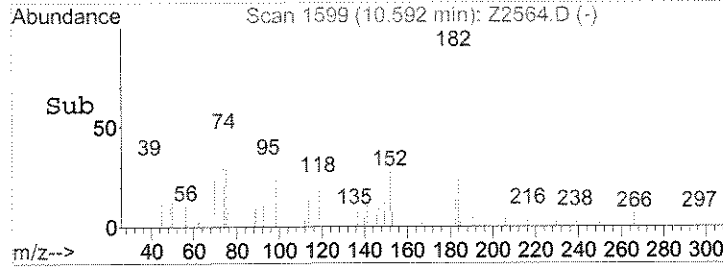
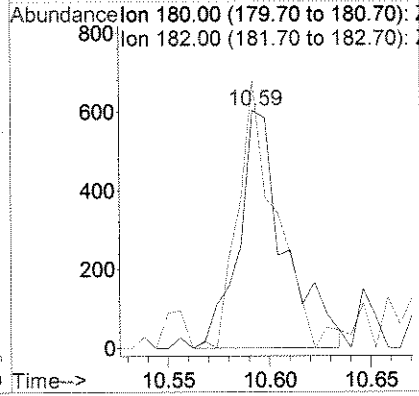
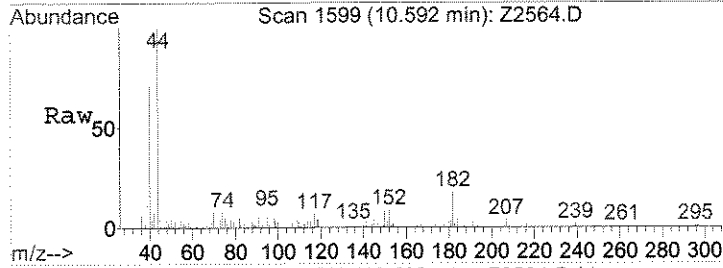
Tgt Ion	Ratio	Lower	Upper
180	100		
182	80.2	79.1	118.7





#109
 1,2,3-Tclbenzene
 Concen: 0.21 ppb
 RT: 10.59 min Scan# 1599
 Delta R.T. -0.01 min
 Lab File: Z2564.D
 Acq: 24 Jun 2008 7:17 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	112.8	75.4	113.2



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

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

Date Sampled : 06/19/08 Order #: 1110982 Sample Matrix: WATER
 Date Received: 06/20/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
ANALYTICAL DILUTION:	1.00		
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	0.33 J	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/19/08 Order #: 1110982 Sample Matrix: WATER
 Date Received: 06/20/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
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 %)	101	%
TOLUENE-D8	(70 - 130 %)	98	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUADATA\MSVOA8\DATA\062408\Z2565.D Vial: 24
 Acq On : 24 Jun 2008 7:45 pm Operator: Herring
 Sample : 1110982 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 19:57 2008 Quant Results File: W060208.RES

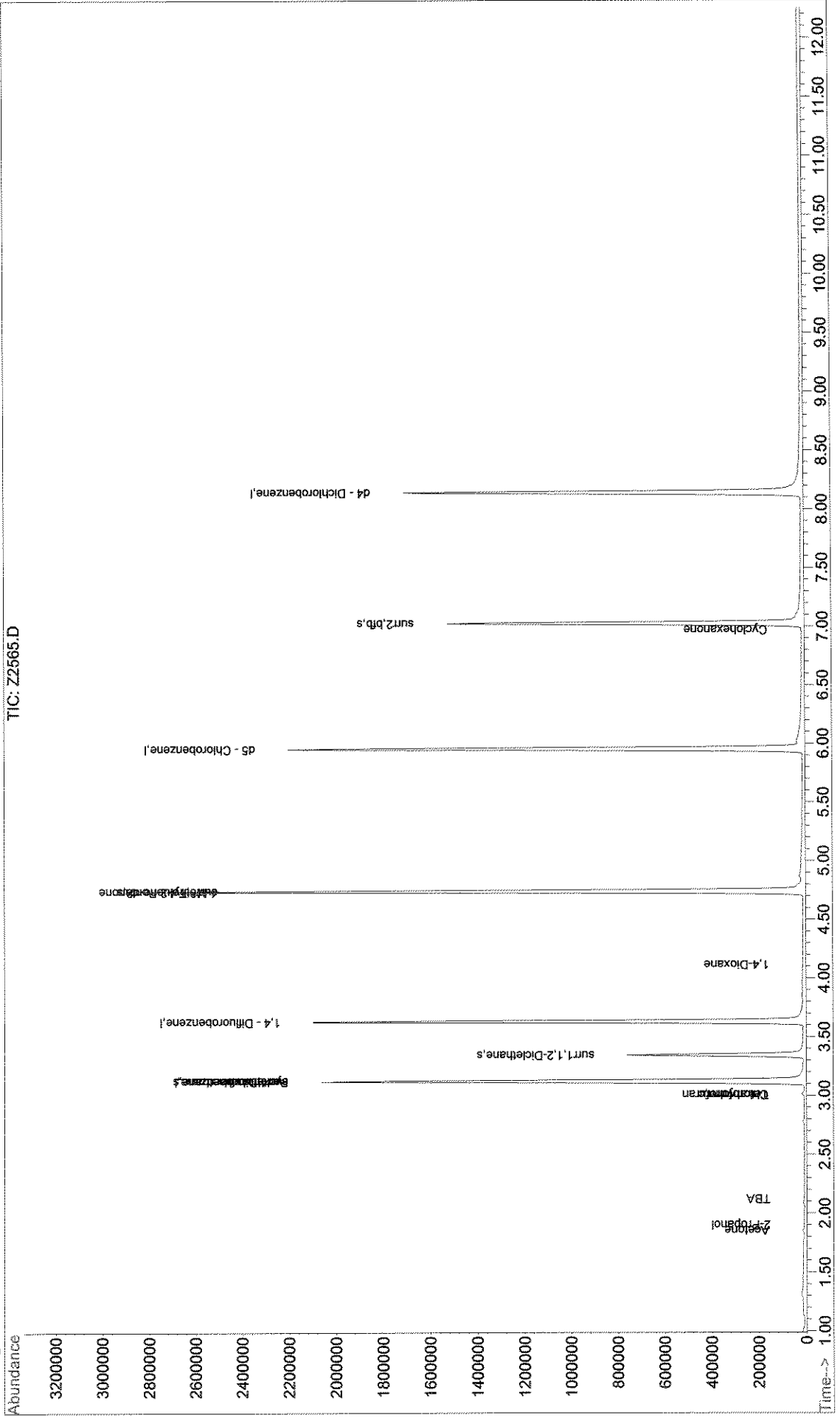
Quant Method : J:\ACQUADATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

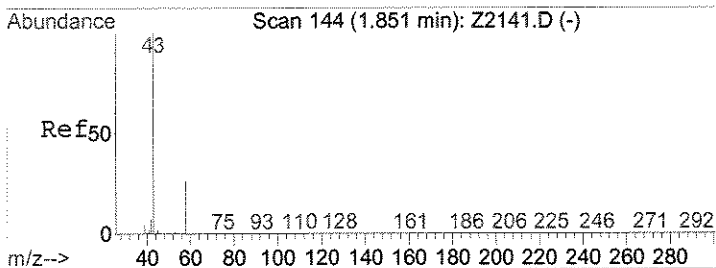
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	728795	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1356269	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.95	117	1170387	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	480479	50.00	ppb	-0.01
System Monitoring Compounds						
43) surr4, Dibrflmethane	3.11	113	383604	47.34	ppb	0.00
Spiked Amount			Recovery	=	94.68%	
48) surr1, 1,2-Dicethane	3.34	65	361296	42.58	ppb	0.00
Spiked Amount			Recovery	=	85.16%	
69) surr3, Toluene-d8	4.74	98	1487242	49.23	ppb	-0.01
Spiked Amount			Recovery	=	98.46%	
70) surr2, bfb	7.02	95	542525	50.66	ppb	-0.02
Spiked Amount			Recovery	=	101.32%	
Target Compounds						
16) Acetone	1.85	43	5341	1.12	ppb	96 <
17) 2-Propanol	1.91	45	2536	8.77	ppb	# 80
24) TBA	2.12	59	1188	2.87	ppb	# 49
39) Chloroform	3.01	83	4864	0.33	ppb	96 ↓
40) Tetrahydrofuran	3.01	42	1165	0.65	ppb	# 90
44) cyclohexane	3.12	56	16729	1.00	ppb	# 1
57) 1,4-Dioxane	4.11	88	481	15.54	ppb	# 20
64) 4-Methyl-2-Pentanone	4.74	43	9126	1.38	ppb	# 1
84) Cyclohexanone	6.96	55	1177	2.55	ppb	# 42

PSH
7/7

Data File : J:\ACQDATA\MSVOA8\DATA\062408\Z2565.D Vial: 24
 Acq On : 24 Jun 2008 7:45 pm Operator: Herring
 Sample : 1110982 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 19:57 2008 Quant Results File: W060208.RES

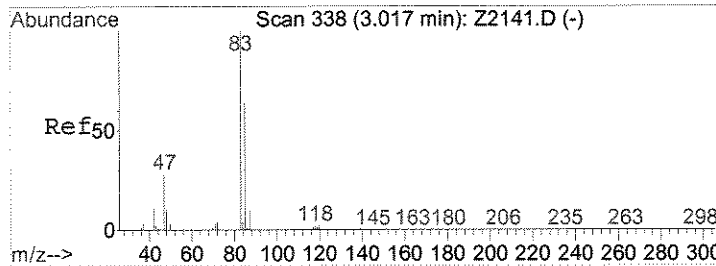
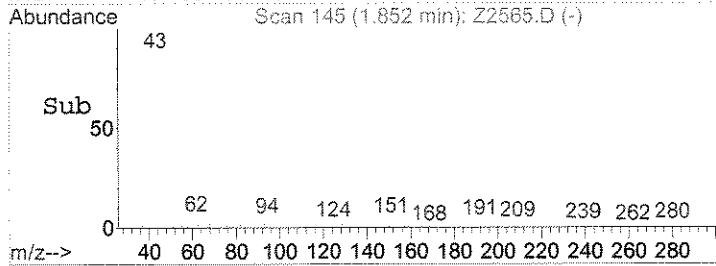
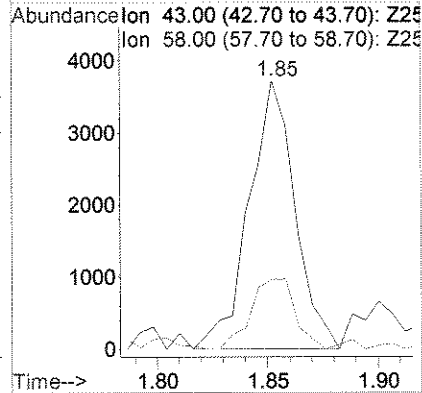
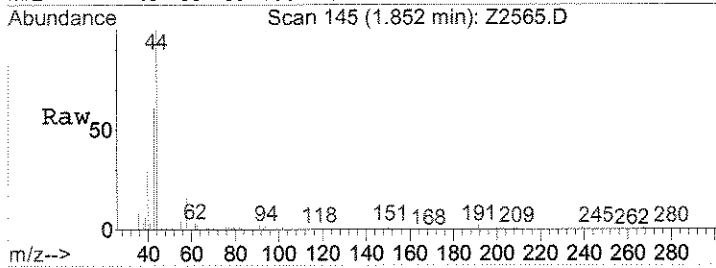
Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260vov
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration





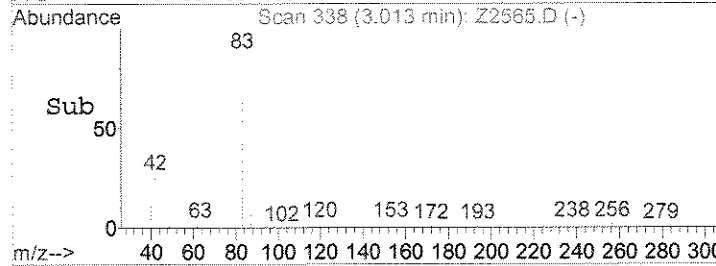
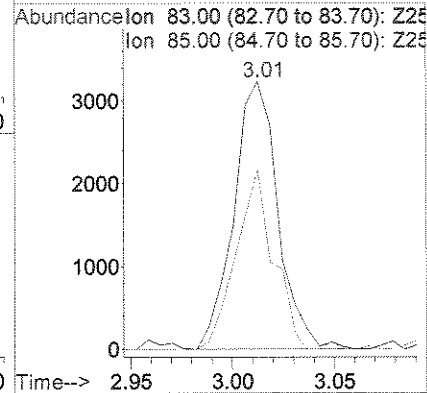
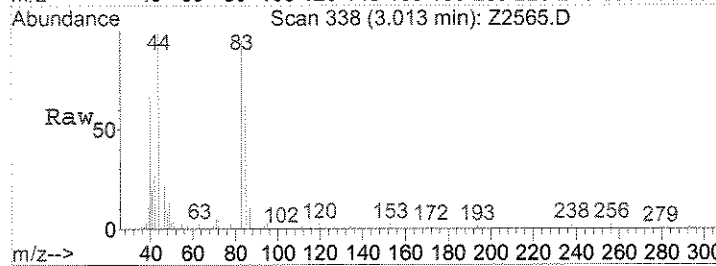
#16
 Acetone
 Concen: 1.12 ppb
 RT: 1.85 min Scan# 145
 Delta R.T. 0.00 min
 Lab File: Z2565.D
 Acq: 24 Jun 2008 7:45 pm

Tgt Ion: 43 Resp: 5341
 Ion Ratio Lower Upper
 43 100
 58 25.9 19.0 28.6



#39
 Chloroform
 Concen: 0.33 ppb
 RT: 3.01 min Scan# 338
 Delta R.T. -0.00 min
 Lab File: Z2565.D
 Acq: 24 Jun 2008 7:45 pm

Tgt Ion: 83 Resp: 4864
 Ion Ratio Lower Upper
 83 100
 85 67.1 51.3 76.9



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66BD

Date Sampled : 06/20/08 12:00 Order #: 1111264 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
ANALYTICAL DILUTION: 1.00			
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	0.70 J	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	5.3	UG/L
CHLOROMETHANE	2.0	1.0 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	0.56 J	UG/L
1,4-DICHLOROBENZENE	2.0	1.6 J	UG/L
1,3-DICHLOROBENZENE	2.0	0.61 J	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.4	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
HEXACHLOROBTADIENE	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66BD

Date Sampled : 06/20/08 12:00 Order #: 1111264 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
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	0.73 J	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	0.36 J	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	0.54 J	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 %)	105	%
TOLUENE-D8	(70 - 130 %)	99	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2566.D Vial: 25
 Acq On : 24 Jun 2008 8:13 pm Operator: Herring
 Sample : 1111264 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 20:25 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	731036	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1343647	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.95	117	1167402	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	475700	50.00	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) surr4, Dibrflmethane	3.11	113	386600	48.16	ppb	0.00
Spiked Amount						Recovery = 96.32%
48) surr1, 1,2-Dicethane	3.34	65	366882	43.64	ppb	0.00
Spiked Amount						Recovery = 87.28%
69) surr3, Toluene-d8	4.74	98	1490352	49.46	ppb	-0.01
Spiked Amount						Recovery = 98.92%
70) surr2, bfb	7.03	95	559553	52.38	ppb	-0.01
Spiked Amount						Recovery = 104.76%

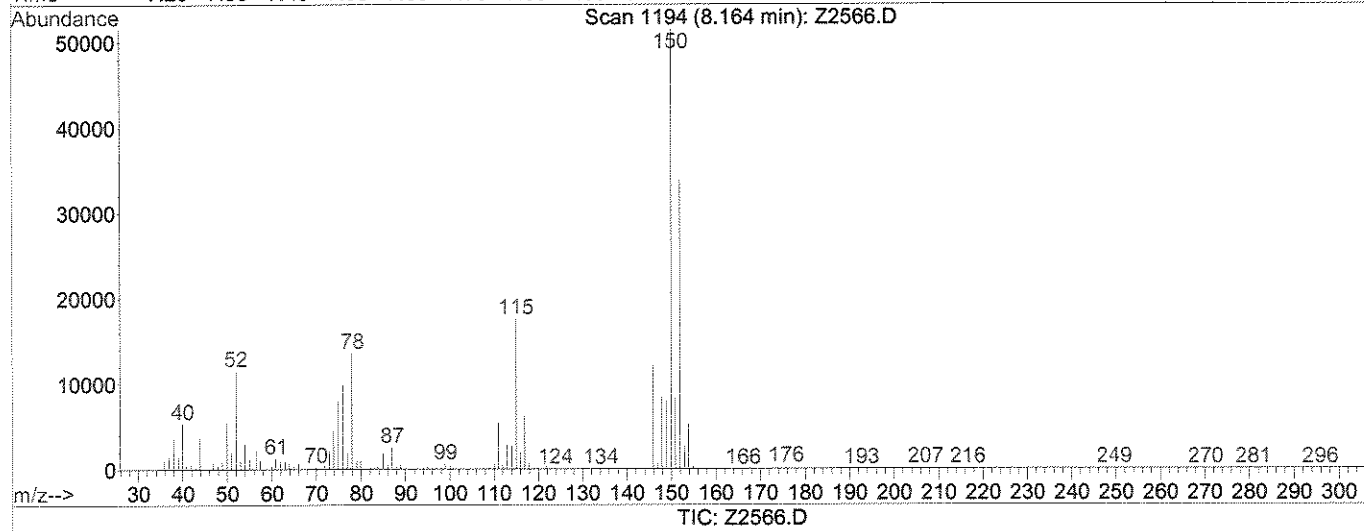
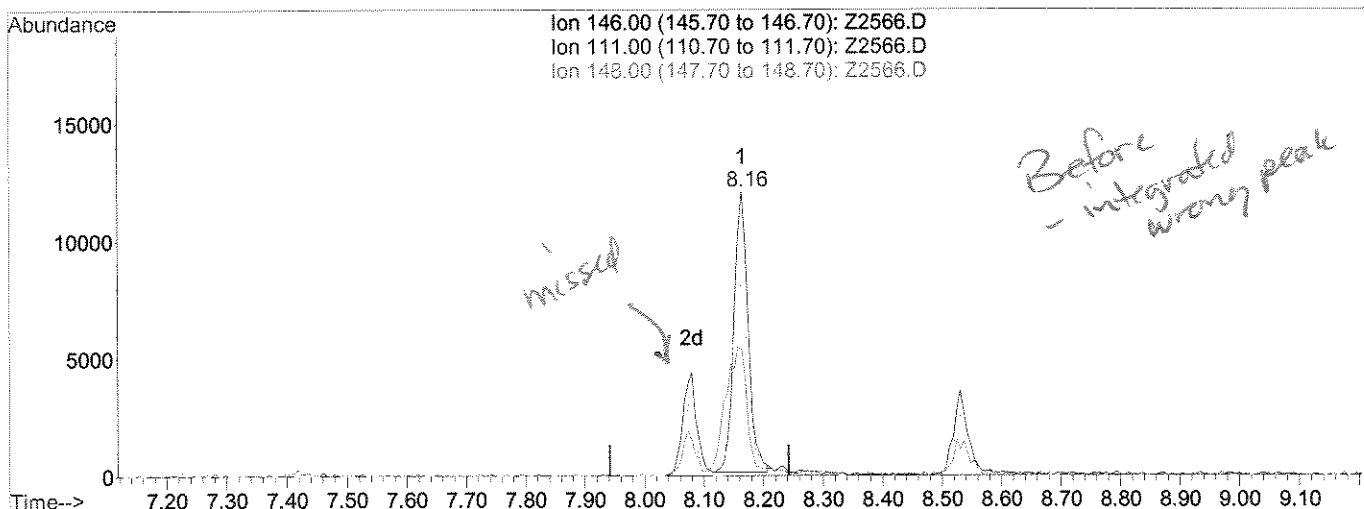
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	1.14	50	12538	1.05	ppb	98 ✓
10) Diethyl Ether	1.70	59	6592	1.06	ppb	89 NT
16) Acetone	1.85	43	2299	Below Cal		95
23) Methylene Chloride	2.09	84	6613	0.73	ppb	# 72 ✓
28) 1,1-Dicethane	2.48	63	25450	1.43	ppb	96
39) Chloroform	3.01	83	78467	5.34	ppb	99
40) Tetrahydrofuran	3.01	42	518	0.29	ppb	# 1
45) Carbontetrachloride	3.26	117	6137	0.70	ppb	95 ✓
53) Trichloroethene	3.82	95	4093	0.54	ppb	# 63 ✓
57) 1,4-Dioxane	4.09	88	470	15.32	ppb	# 16
64) 4-Methyl-2-Pentanone	4.74	43	10080	1.53	ppb	# 1
71) Tetrachloroethene	5.24	166	2329	0.36	ppb	# 82 ✓
84) Cyclohexanone	6.97	55	338	0.73	ppb	# 1
99) 1,3-Dclbenz	8.16	146	19635	1.65	ppb	93 ✓
100) 1,4-Dclbenz	8.16	146	19376	1.58	ppb	93 ✓
103) 1,2-Dclbenz	8.53	146	5935	0.56	ppb	# 81 ✓

RJH
7/7

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2566.D Vial: 25
 Acq On : 24 Jun 2008 8:13 pm Operator: Herring
 Sample : 1111264 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 7 16:36 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(99) 1,3-Dicibenz

8.16min 1.65ppb

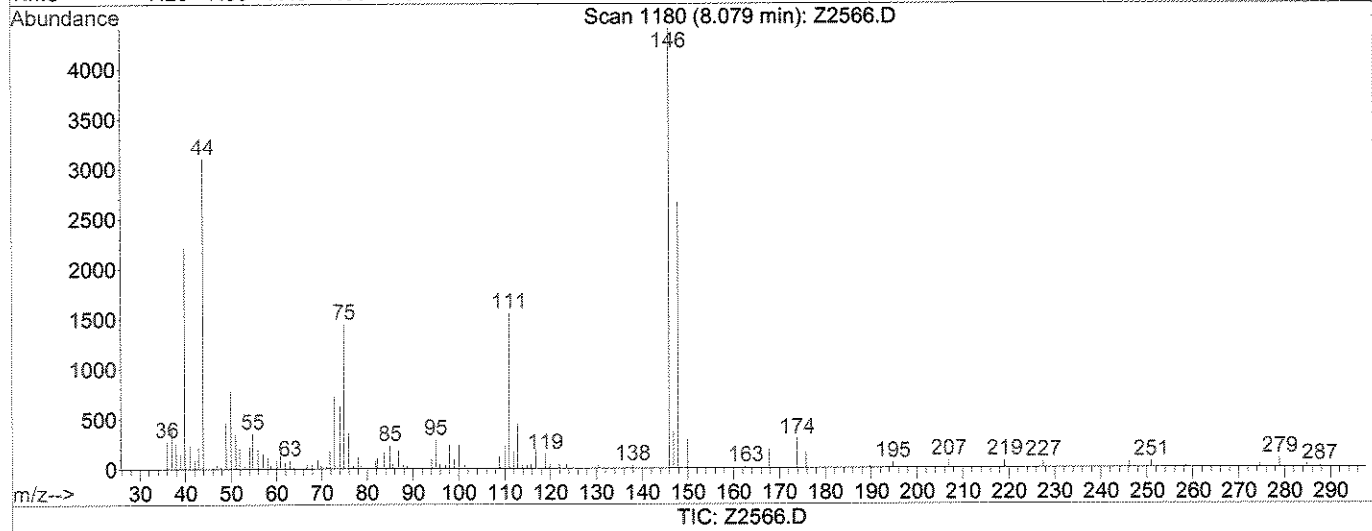
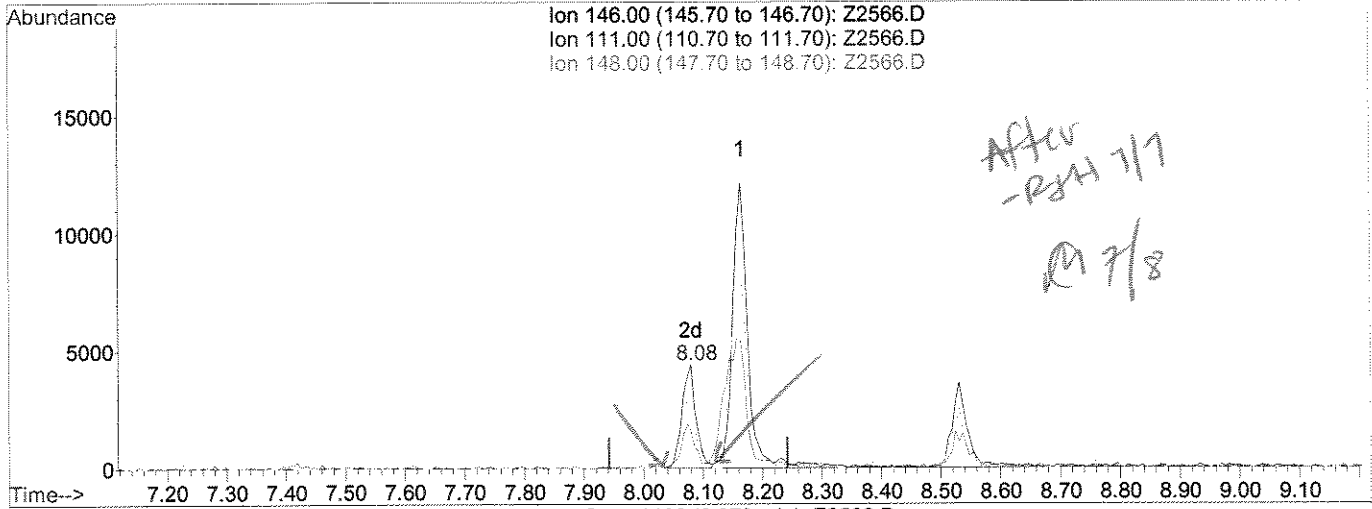
response 19635

Ion	Exp%	Act%
146.00	100	100
111.00	45.40	44.45
148.00	61.20	70.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2566.D Vial: 25
 Acq On : 24 Jun 2008 8:13 pm Operator: Herring
 Sample : 1111264 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 7 16:36 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(99) 1,3-Dclbenz

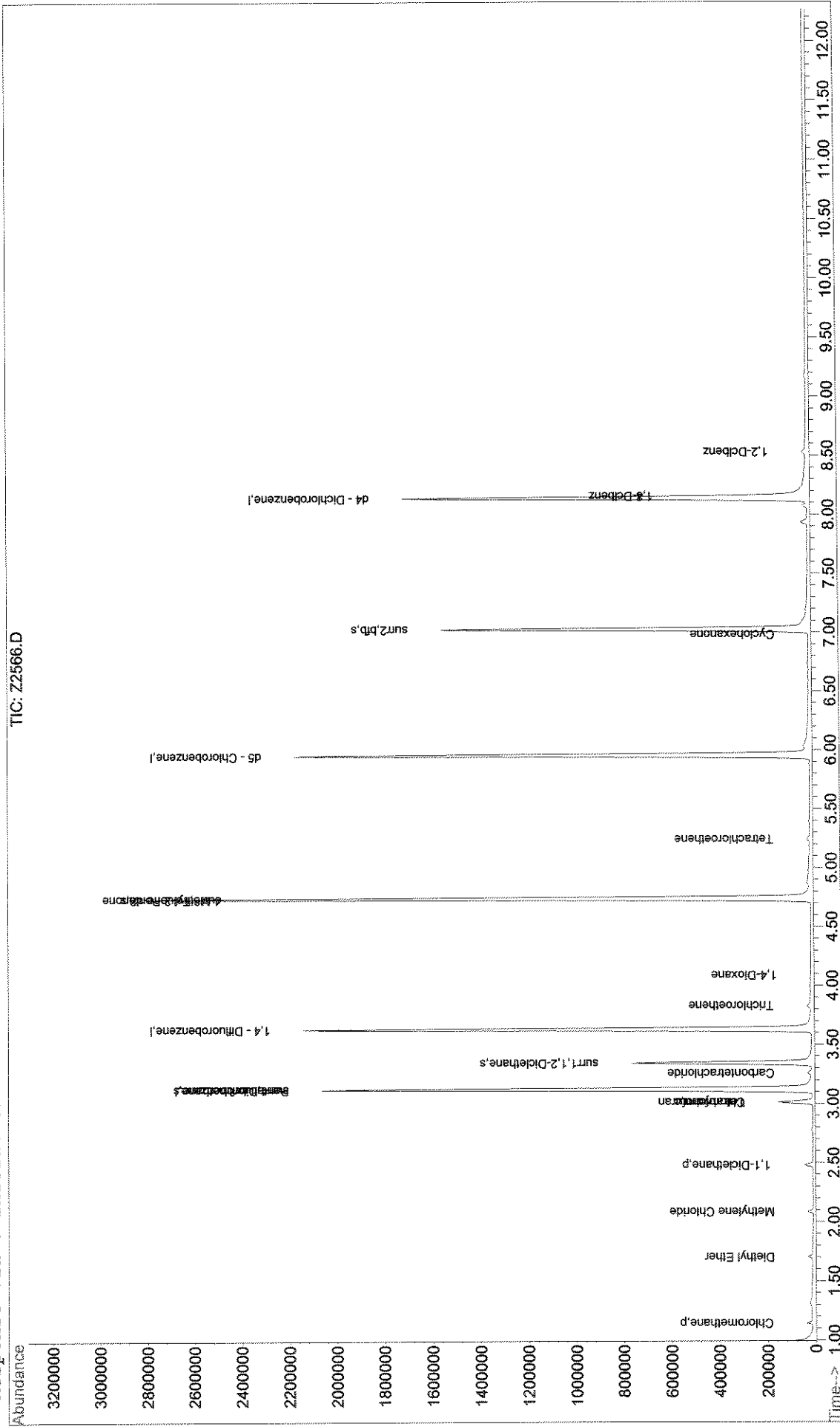
8.08min 0.61ppb m

response 7267

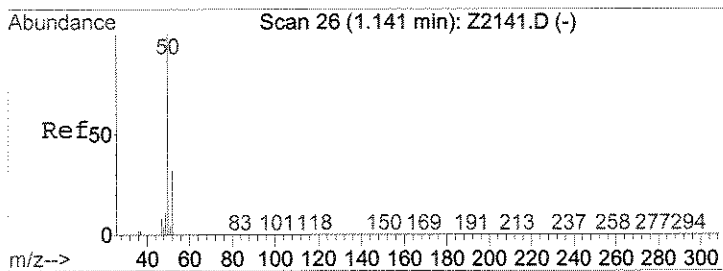
Ion	Exp%	Act%
146.00	100	100
111.00	45.40	35.31#
148.00	61.20	60.55
0.00	0.00	0.00

Data File : J:\ACQDATA\MSVOA8\DATA\062408\Z2566.D Vial: 25
 Acq On : 24 Jun 2008 8:13 pm Operator: Herring
 Sample : 1111264 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 20:25 2008 Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration

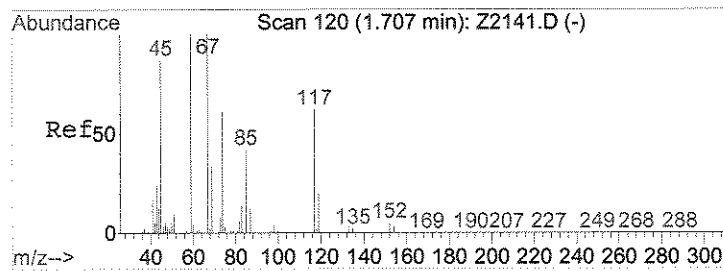
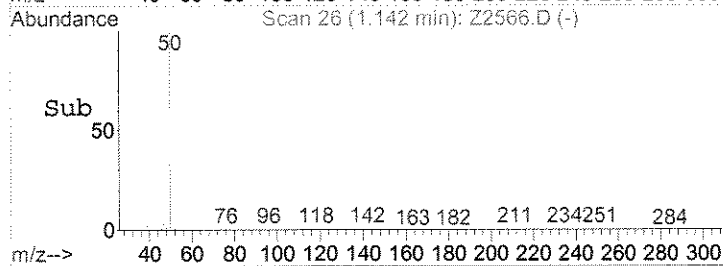
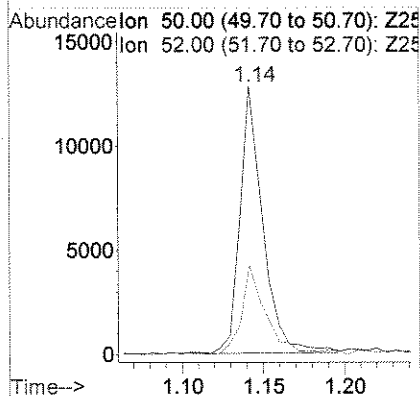
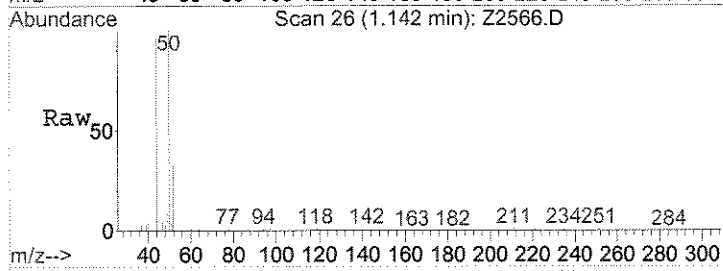


00138



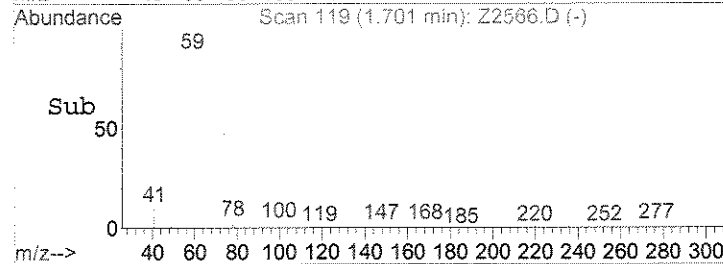
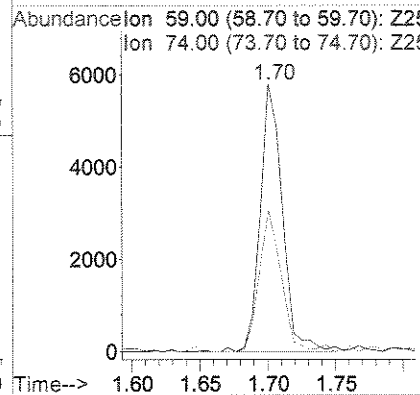
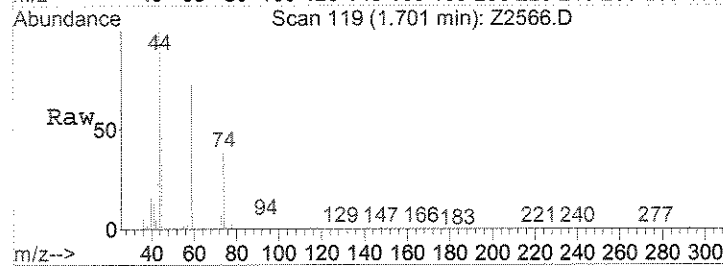
#4
 Chloromethane
 Concen: 1.05 ppb
 RT: 1.14 min Scan# 26
 Delta R.T. -0.00 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

Tgt Ion	Resp	Lower	Upper
50	100		
52	33.2	25.7	38.5

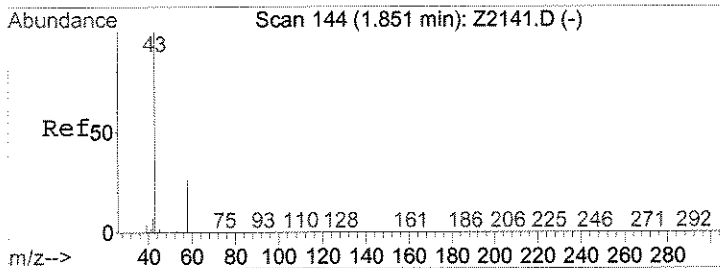


#10
 Diethyl Ether
 Concen: 1.06 ppb
 RT: 1.70 min Scan# 119
 Delta R.T. -0.00 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

Tgt Ion	Resp	Lower	Upper
59	100		
74	52.9	45.8	76.3

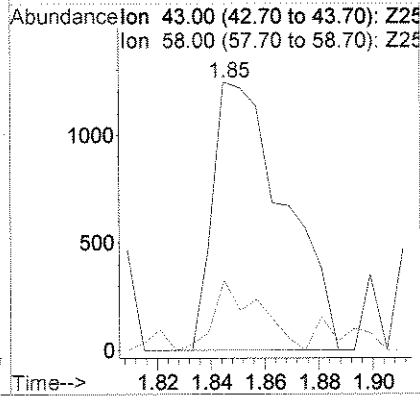
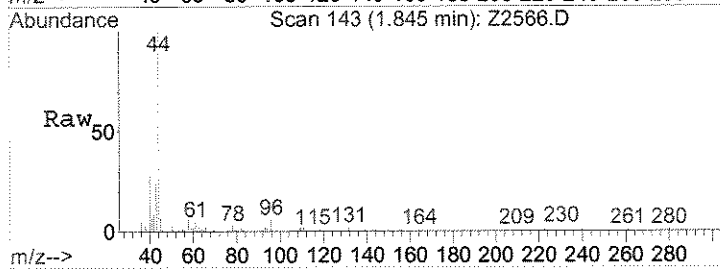


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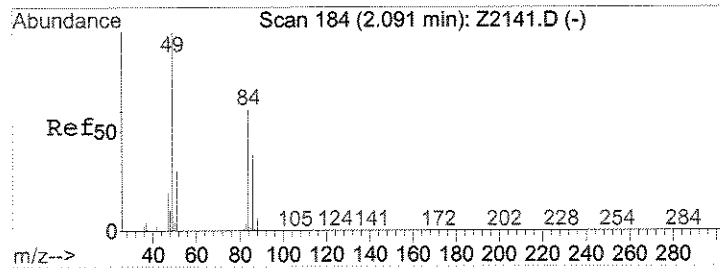
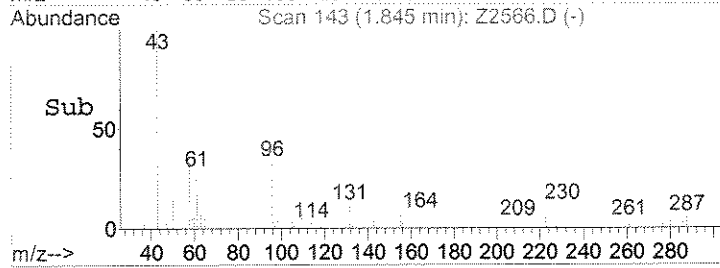


#16
 Acetone
 Concen: Below Cal
 RT: 1.85 min Scan# 143
 Delta R.T. -0.01 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

Tgt Ion	Resp	Lower	Upper
43	100		
58	26.1	19.0	28.6

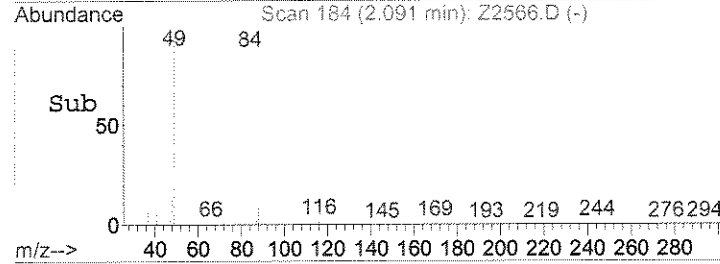
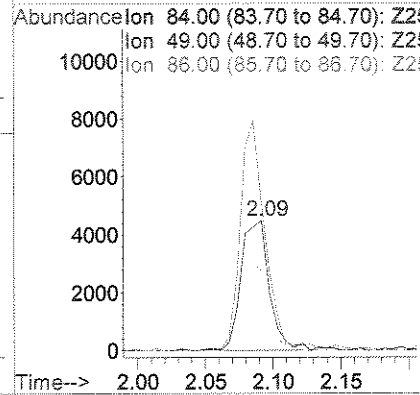
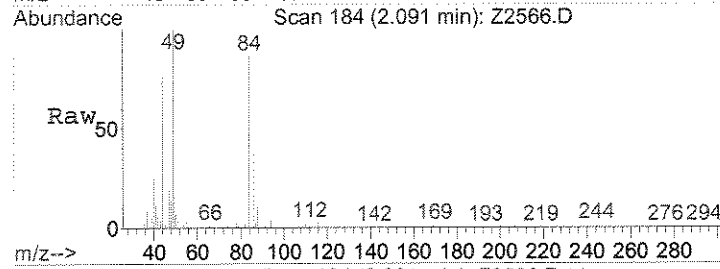


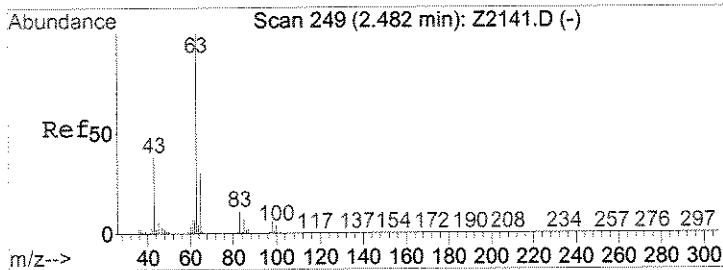
Less than



#23
 Methylene Chloride
 Concen: 0.73 ppb
 RT: 2.09 min Scan# 184
 Delta R.T. 0.01 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

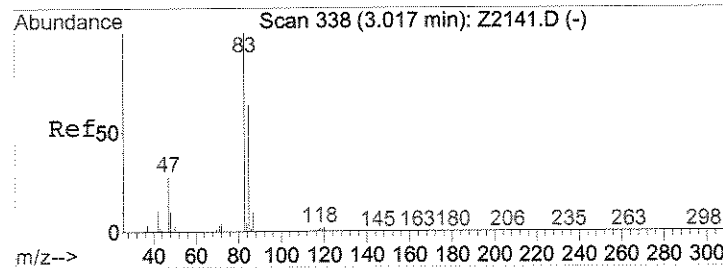
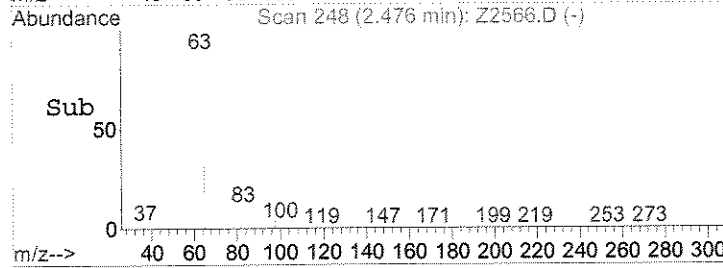
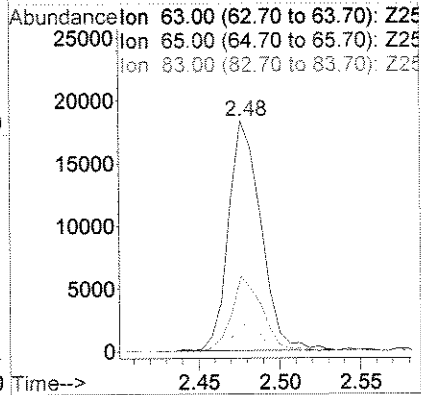
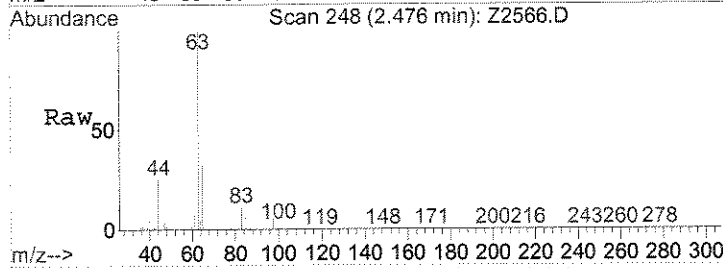
Tgt Ion	Resp	Lower	Upper
84	100		
49	114.6	132.2	198.4#
86	61.0	50.5	75.7





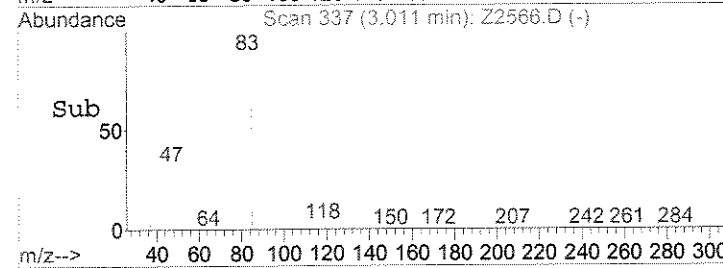
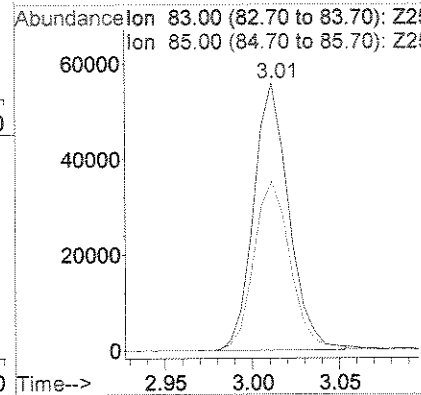
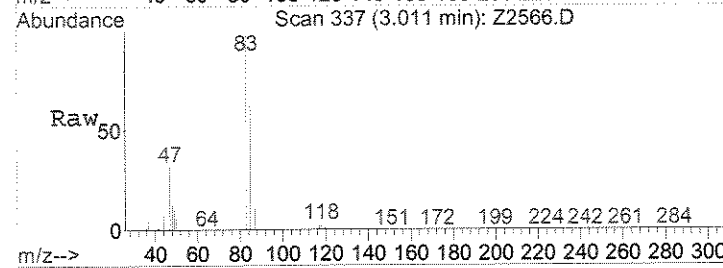
#28
 1,1-Diclcethane
 Concen: 1.43 ppb
 RT: 2.48 min Scan# 248
 Delta R.T. -0.01 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

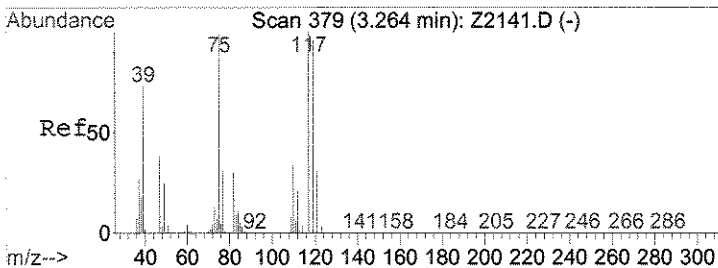
Tgt Ion:	63	Resp:	25450
Ion Ratio	Lower	Upper	
63	100		
65	32.5	24.1	36.1
83	10.6	9.1	13.7



#39
 Chloroform
 Concen: 5.34 ppb
 RT: 3.01 min Scan# 337
 Delta R.T. -0.01 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

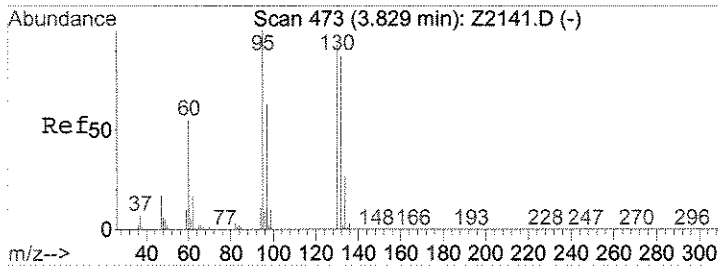
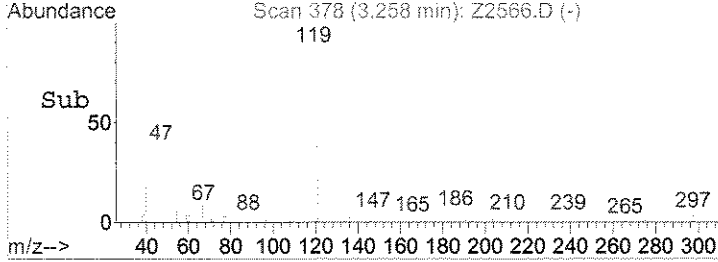
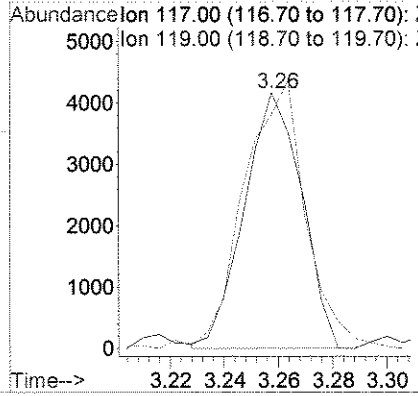
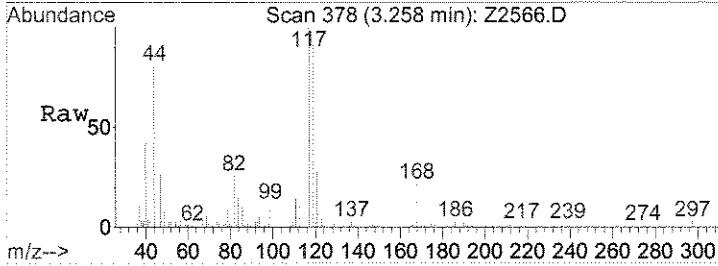
Tgt Ion:	83	Resp:	78467
Ion Ratio	Lower	Upper	
83	100		
85	63.2	51.3	76.9





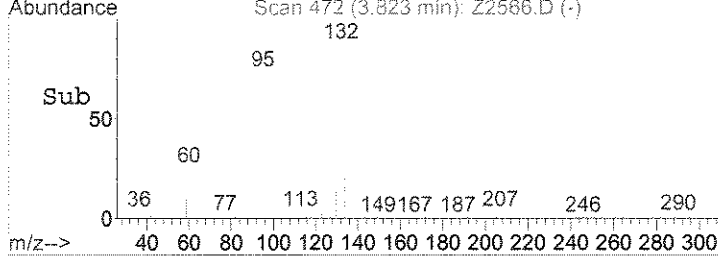
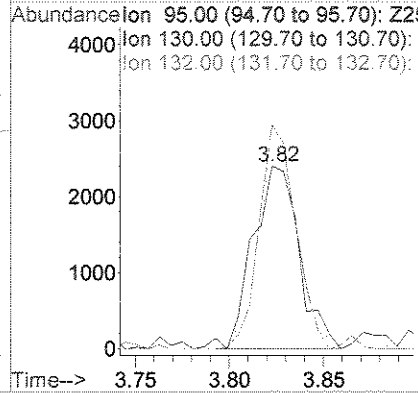
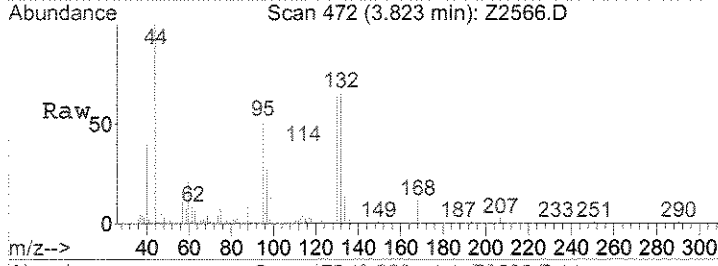
#45
 Carbontetrachloride
 Concen: 0.70 ppb
 RT: 3.26 min Scan# 378
 Delta R.T. -0.01 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

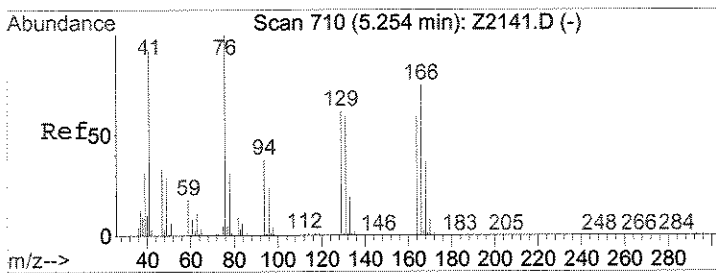
Tgt Ion: 117 Resp: 6137
 Ion Ratio Lower Upper
 117 100
 119 91.5 76.7 115.1



#53
 Trichloroethene
 Concen: 0.54 ppb
 RT: 3.82 min Scan# 472
 Delta R.T. -0.01 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

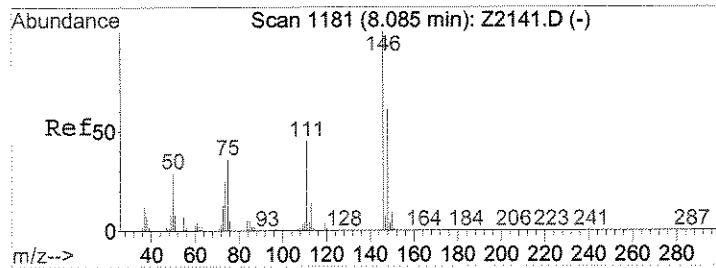
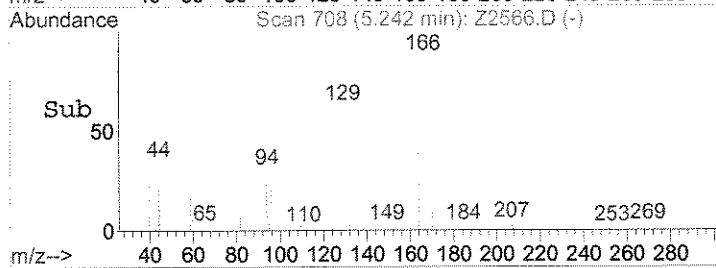
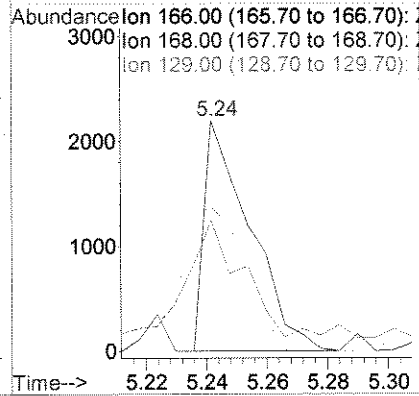
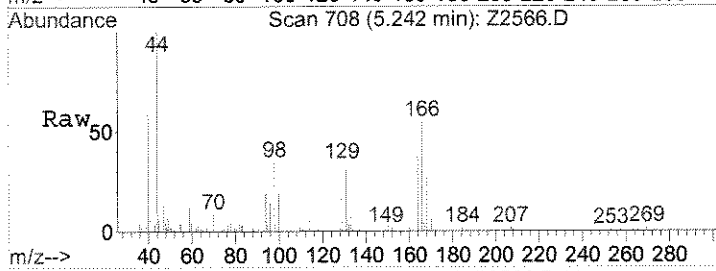
Tgt Ion: 95 Resp: 4093
 Ion Ratio Lower Upper
 95 100
 130 122.4 74.2 111.4#
 132 126.1 69.4 104.2#





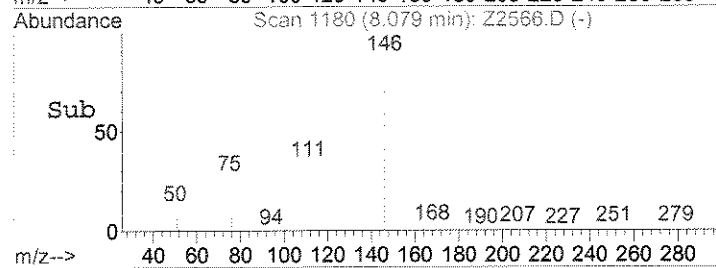
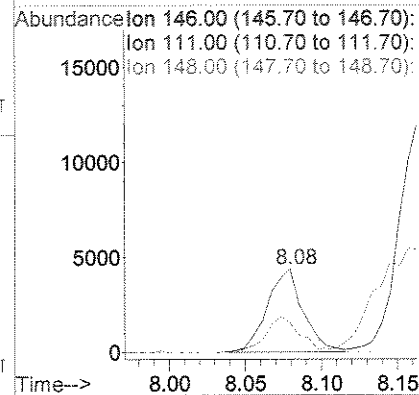
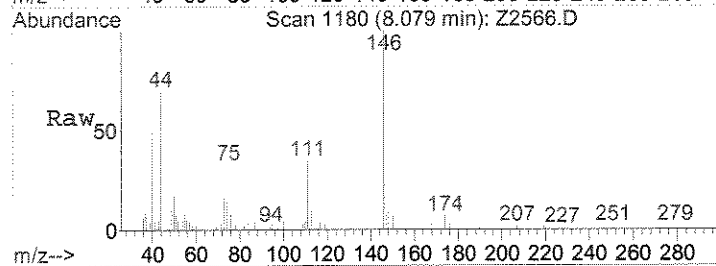
#71
 Tetrachloroethene
 Concen: 0.36 ppb
 RT: 5.24 min Scan# 708
 Delta R.T. -0.01 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

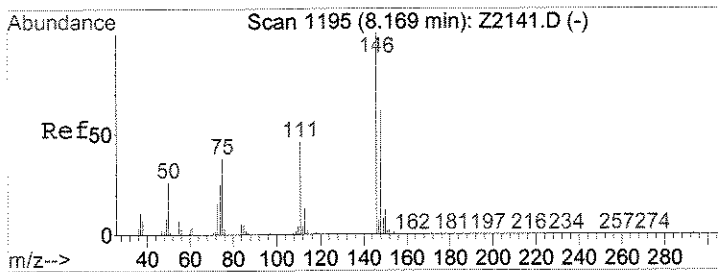
Tgt Ion	Ratio	Lower	Upper
166	100		
168	56.8	39.1	58.7
129	62.7	66.1	99.1#



#99
 1,3-Diclbz
 Concen: 0.61 ppb m
 RT: 8.08 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

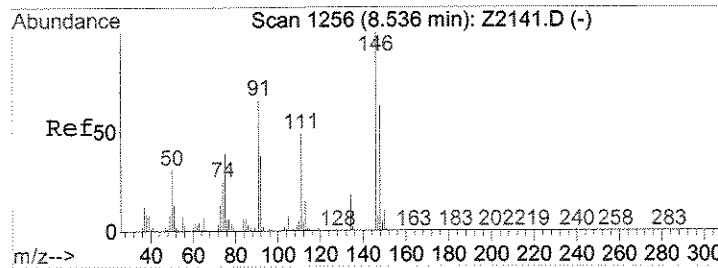
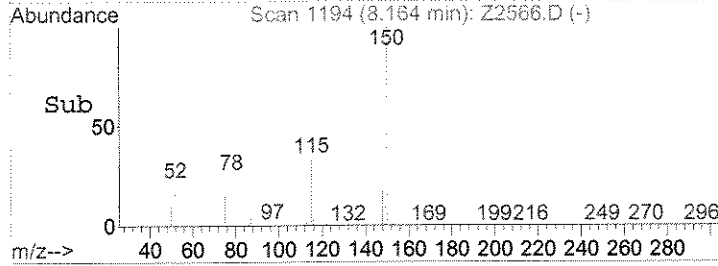
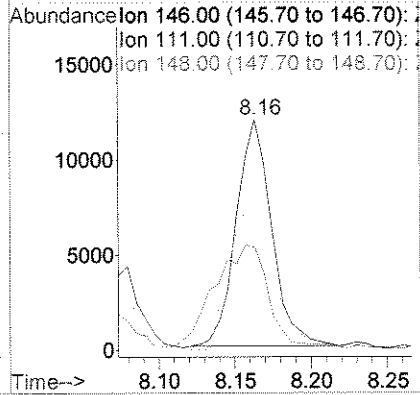
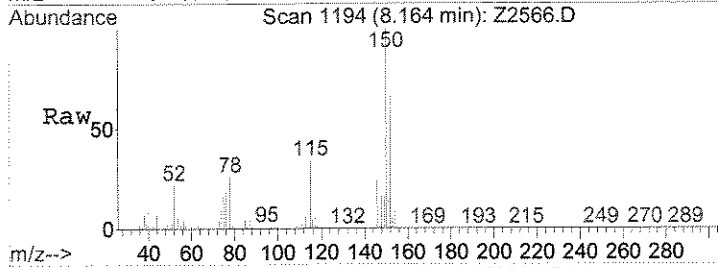
Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.3	36.3	54.5#
148	60.6	49.0	73.4





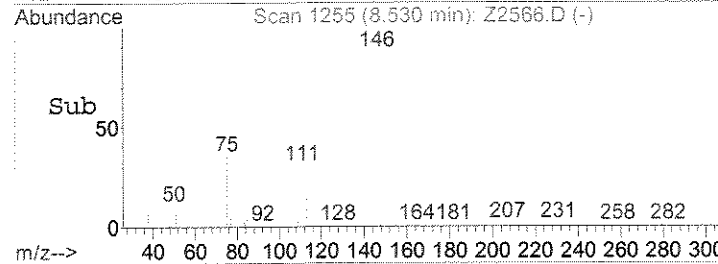
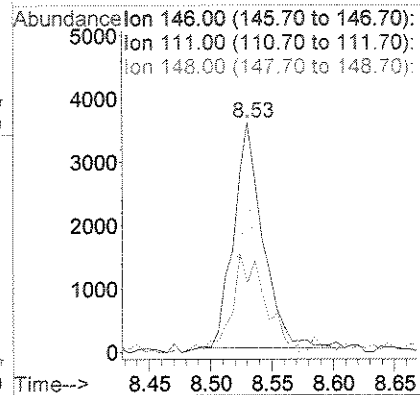
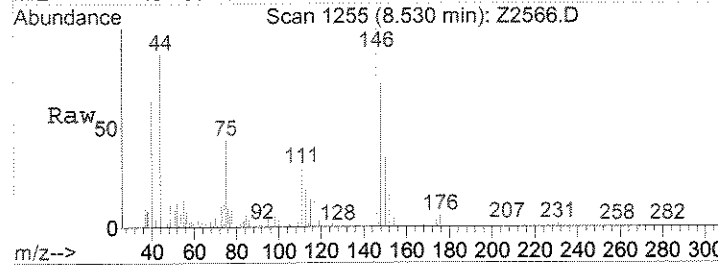
#100
 1,4-DcIbenz
 Concen: 1.58 ppb
 RT: 8.16 min Scan# 1194
 Delta R.T. -0.01 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.4	37.1	55.7
148	70.1	49.4	74.2



#103
 1,2-DcIbenz
 Concen: 0.56 ppb
 RT: 8.53 min Scan# 1255
 Delta R.T. -0.01 min
 Lab File: Z2566.D
 Acq: 24 Jun 2008 8:13 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	30.3	39.1	58.7#
148	71.8	50.2	75.2



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-65B

Date Sampled : 06/20/08 12:00 Order #: 1111265 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
ANALYTICAL DILUTION:	1.00		
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	0.54 J	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	8.3	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	0.64 J	UG/L
1,4-DICHLOROBENZENE	2.0	1.5 J	UG/L
1,3-DICHLOROBENZENE	2.0	0.27 J	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	2.6	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-65B

Date Sampled : 06/20/08 12:00 Order #: 1111265 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
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	0.32 J	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	0.83 J	UG/L
TOLUENE	1.0	0.22 J	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	0.78 J	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 %)	105	%
TOLUENE-D8	(70 - 130 %)	102	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2567.D Vial: 26
 Acq On : 24 Jun 2008 8:41 pm Operator: Herring
 Sample : 1111265 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 20:53 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	702399	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1289000	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.95	117	1113130	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	455811	50.00	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) surr4,Dibrflmethane	3.11	113	373095	48.45	ppb	0.00
Spiked Amount 50.000			Recovery =	96.90%		
48) surr1,1,2-Dicethane	3.34	65	358876	44.50	ppb	0.00
Spiked Amount 50.000			Recovery =	89.00%		
69) surr3,Toluene-d8	4.74	98	1469094	51.13	ppb	-0.01
Spiked Amount 50.000			Recovery =	102.26%		
70) surr2,bfb	7.02	95	533533	52.38	ppb	-0.02
Spiked Amount 50.000			Recovery =	104.76%		

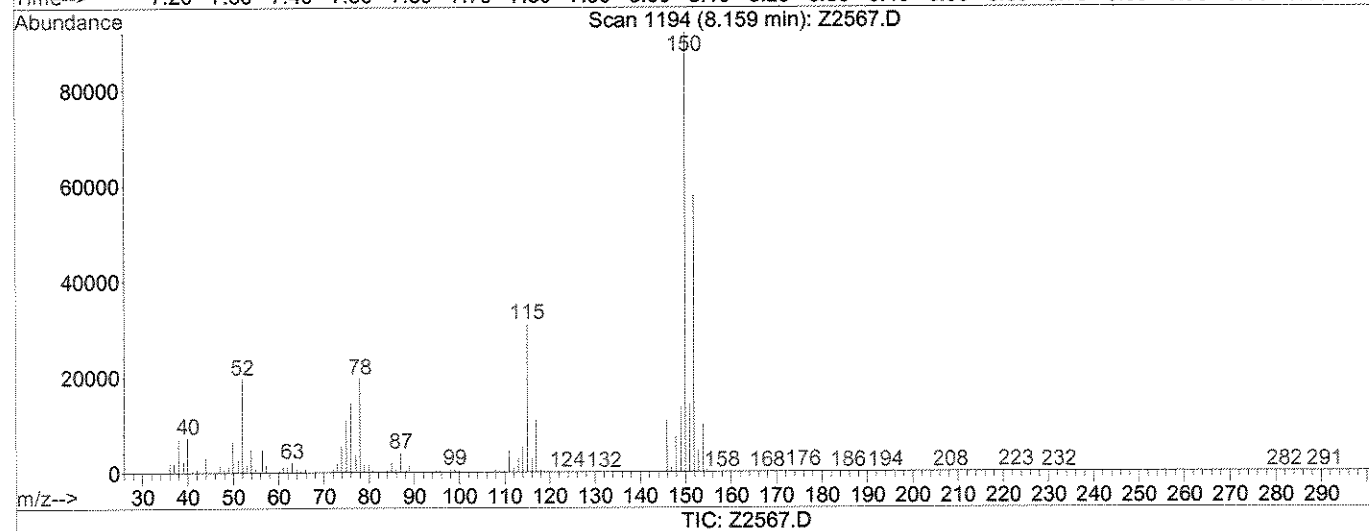
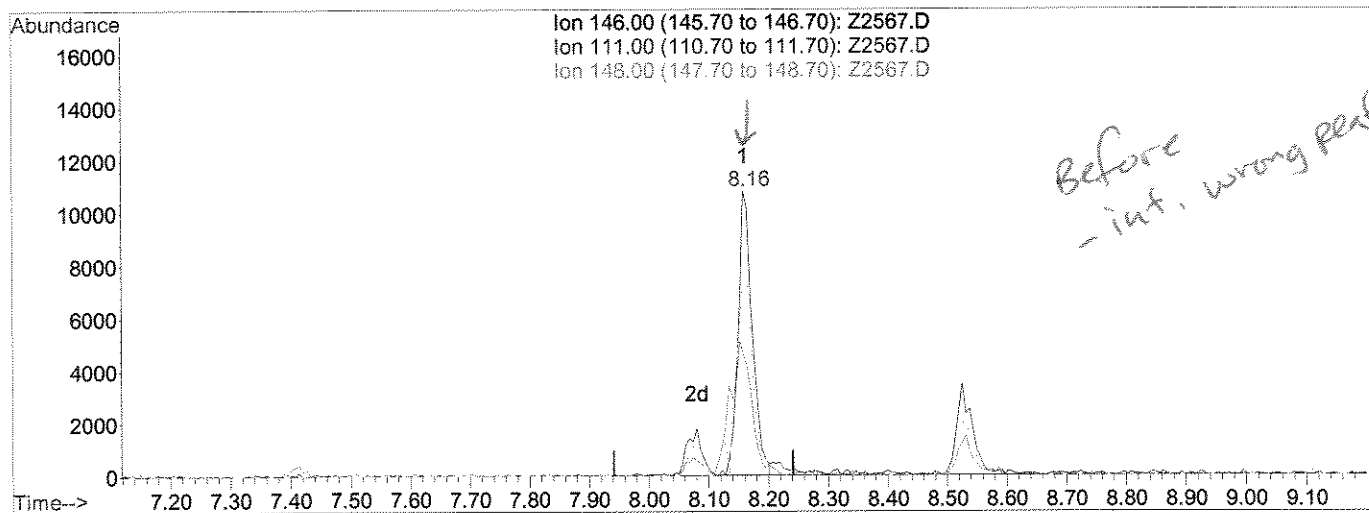
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Diethyl Ether	1.70	59	6175	1.04	ppb	94 NT
16) Acetone	1.85	43	2207	Below Cal	#	79
20) Acetonitrile	2.00	40	1213	2.90	ppb	# 1
23) Methylene Chloride	2.09	84	2813	0.32	ppb	84 J
28) 1,1-Dicethane	2.48	63	44223	2.58	ppb	96
39) Chloroform	3.01	83	117539	8.32	ppb	97
40) Tetrahydrofuran	3.01	42	1022	0.59	ppb	# 37
44) cyclohexane	3.12	56	17137	1.08	ppb	# 1
45) Carbontetrachloride	3.26	117	4506	0.54	ppb	95 J
53) Trichloroethene	3.82	95	5736	0.78	ppb	89 J
56) Methyl Methacrylate	4.05	69	726	0.22	ppb	# 72
57) 1,4-Dioxane	4.14	88	483	16.42	ppb	# 8
64) 4-Methyl-2-Pentanone	4.74	43	9329	1.49	ppb	# 1
65) Toluene	4.79	91	6818	0.22	ppb	74 J
71) Tetrachloroethene	5.25	166	5157	0.83	ppb	69 J
84) Cyclohexanone	6.97	55	980	2.23	ppb	# 1
99) 1,3-Dclbenz	8.16	146	17798	1.57	ppb	92 J
100) 1,4-Dclbenz	8.16	146	17928	1.53	ppb	91 J
103) 1,2-Dclbenz	8.53	146	6509	0.64	ppb	81 J

(#) = qualifier out of range (m) = manual integration
 Z2567.D W060208.M Tue Jun 24 20:53:28 2008

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2567.D Vial: 26
 Acq On : 24 Jun 2008 8:41 pm Operator: Herring
 Sample : 1111265 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 7 16:45 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(99) 1,3-Dcibenz

8.16min 1.57ppb

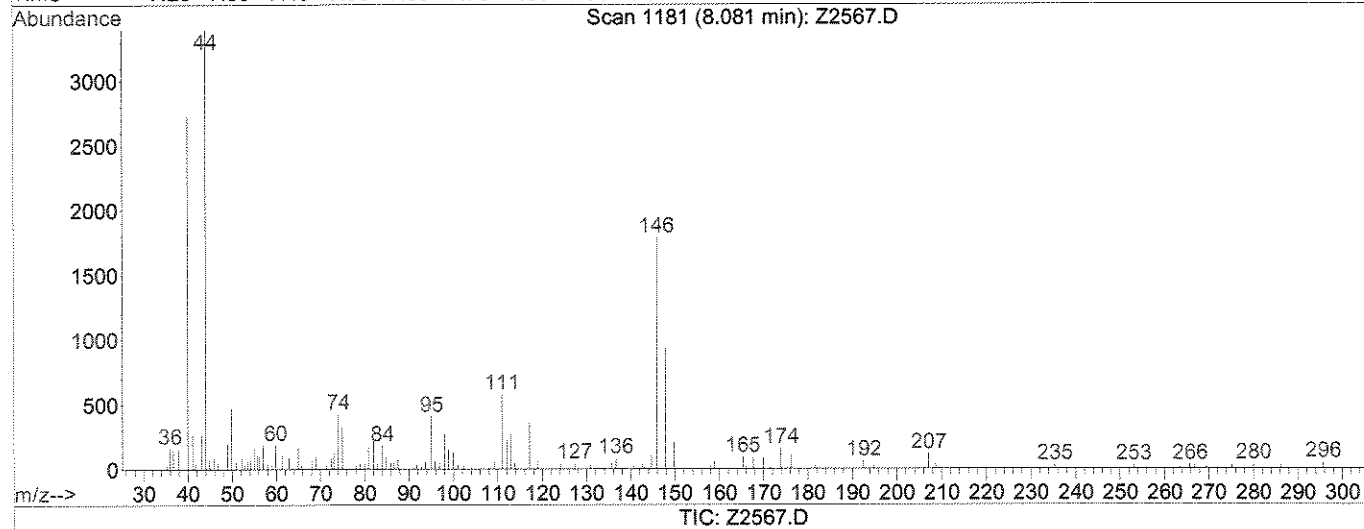
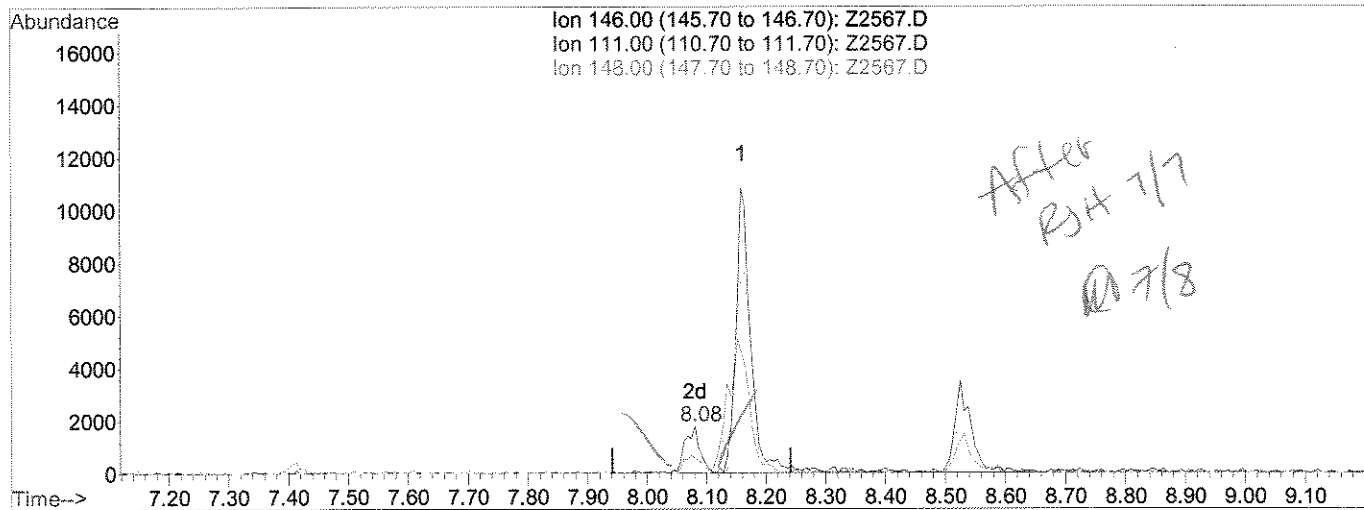
response 17798

Ion	Exp%	Act%
146.00	100	100
111.00	45.40	42.20
148.00	61.20	69.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2567.D Vial: 26
 Acq On : 24 Jun 2008 8:41 pm Operator: Herring
 Sample : 1111265 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 7 16:45 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(99) 1,3-Dcibenz

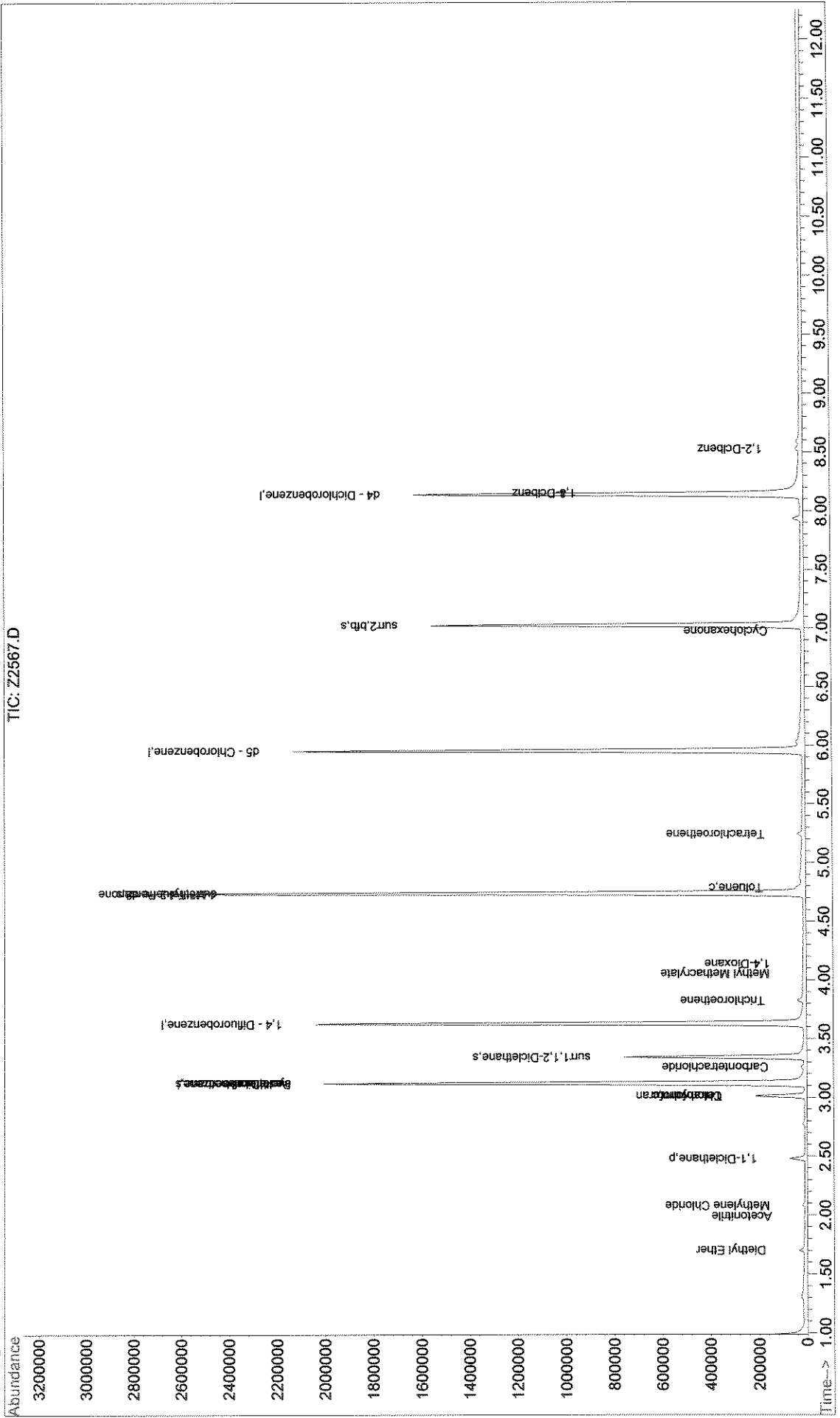
8.08min 0.27ppb m

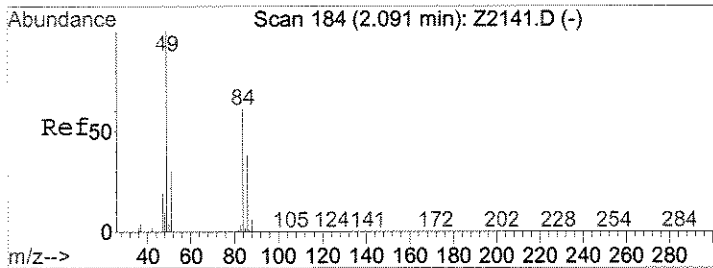
response 3038

Ion	Exp%	Act%
146.00	100	100
111.00	45.40	32.38#
148.00	61.20	52.24
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2567.D Vial: 26
Acq On : 24 Jun 2008 8:41 pm Operator: Herring
Sample : 1111265 1.0 Inst : MS #8
Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 20:53 2008 Quant Results File: W060208.RES

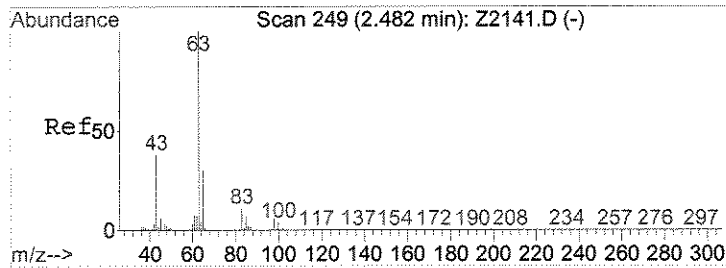
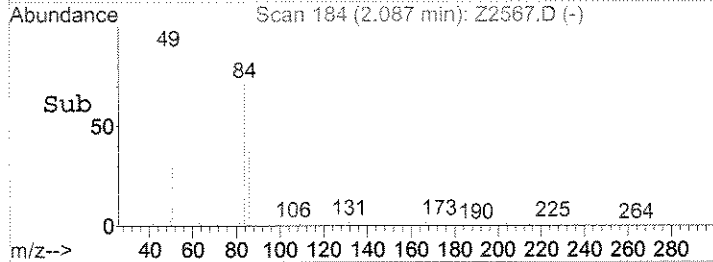
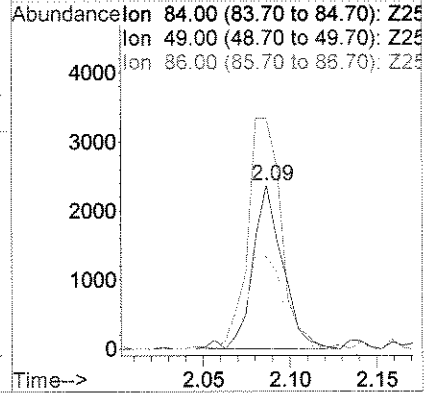
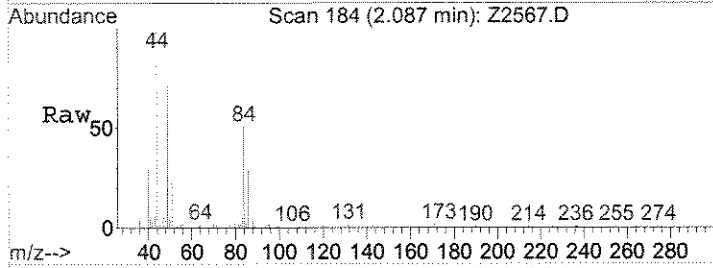
Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260v0a
Last Update : Tue Jun 03 13:30:30 2008
Response via : Initial Calibration





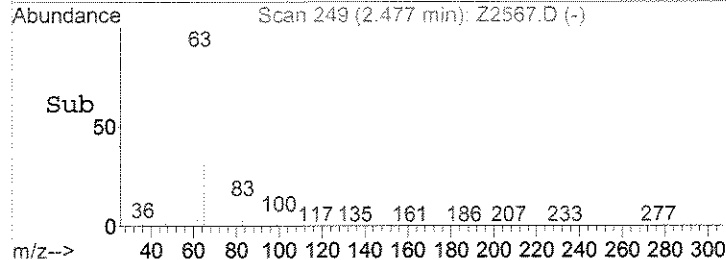
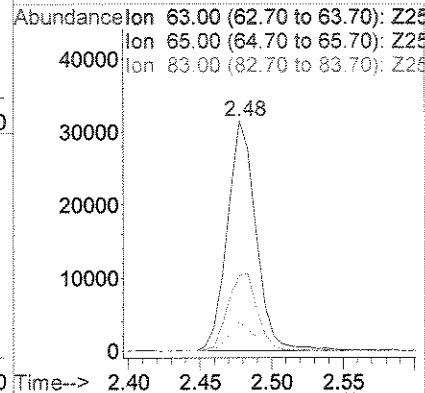
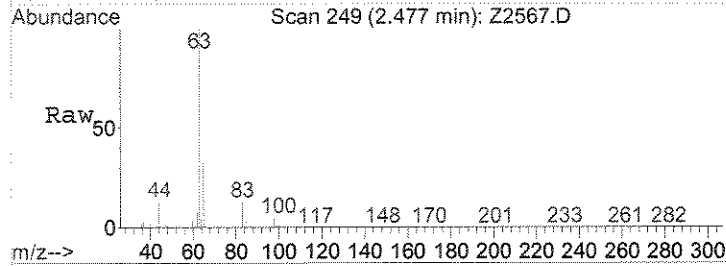
#23
 Methylene Chloride
 Concen: 0.32 ppb
 RT: 2.09 min Scan# 184
 Delta R.T. 0.00 min
 Lab File: Z2567.D
 Acq: 24 Jun 2008 8:41 pm

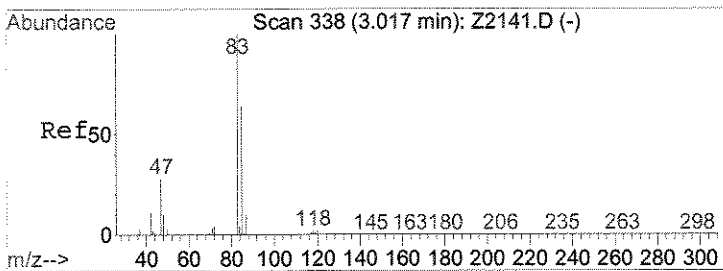
Tgt Ion	Resp	Lower	Upper
84	2813		
84	100		
49	140.7	132.2	198.4
86	56.0	50.5	75.7



#28
 1,1-Dicethane
 Concen: 2.58 ppb
 RT: 2.48 min Scan# 249
 Delta R.T. -0.00 min
 Lab File: Z2567.D
 Acq: 24 Jun 2008 8:41 pm

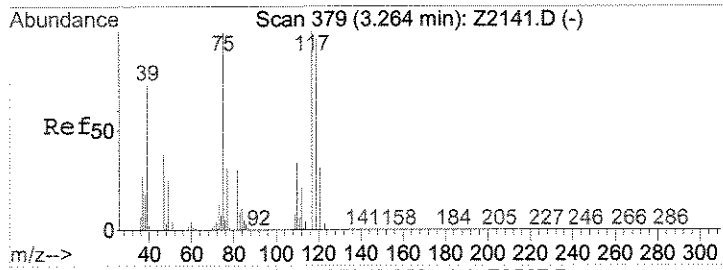
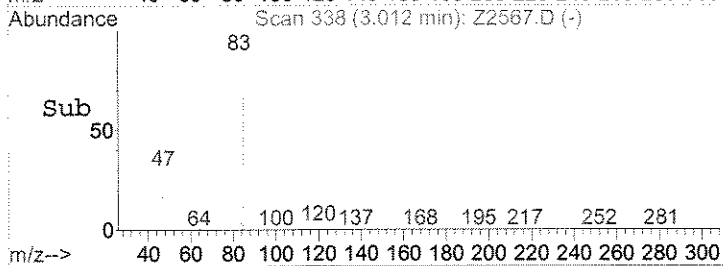
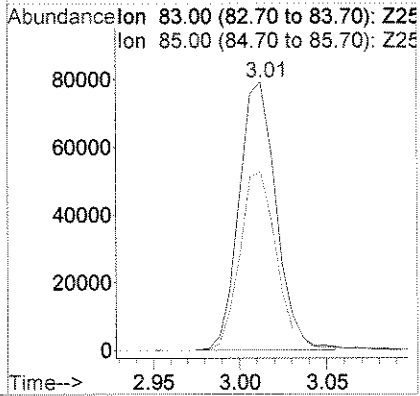
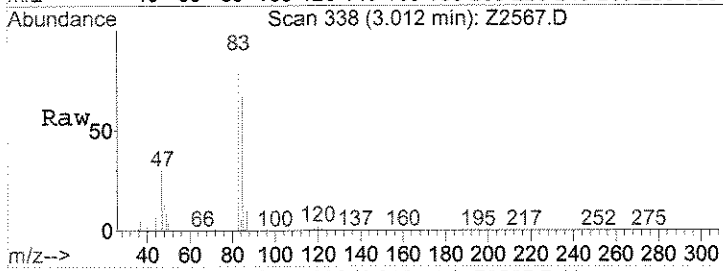
Tgt Ion	Resp	Lower	Upper
63	44223		
63	100		
65	32.7	24.1	36.1
83	12.6	9.1	13.7





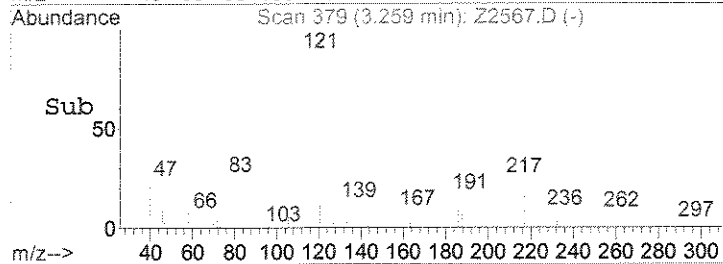
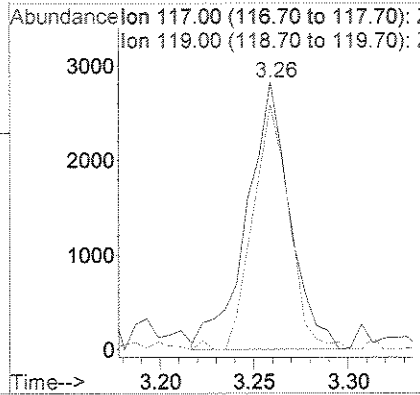
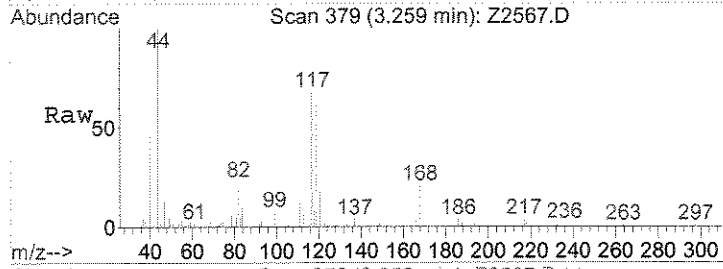
#39
 Chloroform
 Concen: 8.32 ppb
 RT: 3.01 min Scan# 338
 Delta R.T. -0.00 min
 Lab File: Z2567.D
 Acq: 24 Jun 2008 8:41 pm

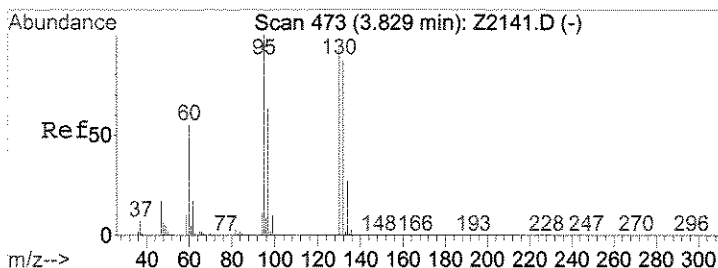
Tgt Ion: 83 Resp: 117539
 Ion Ratio Lower Upper
 83 100
 85 66.6 51.3 76.9



#45
 Carbontetrachloride
 Concen: 0.54 ppb
 RT: 3.26 min Scan# 379
 Delta R.T. -0.00 min
 Lab File: Z2567.D
 Acq: 24 Jun 2008 8:41 pm

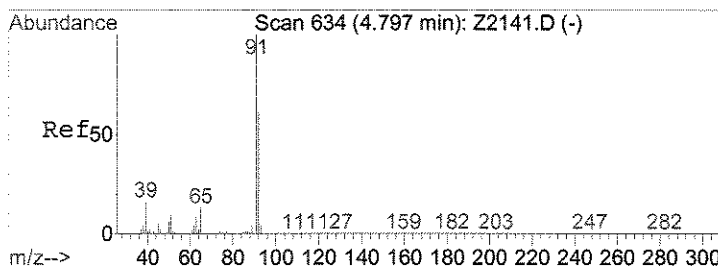
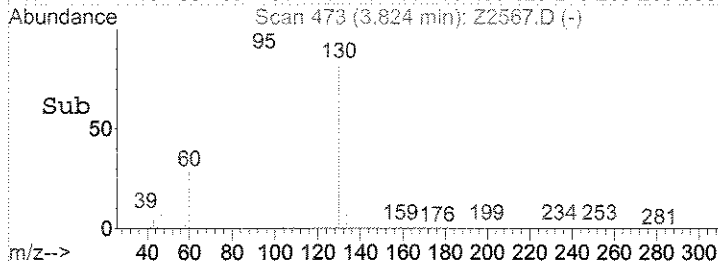
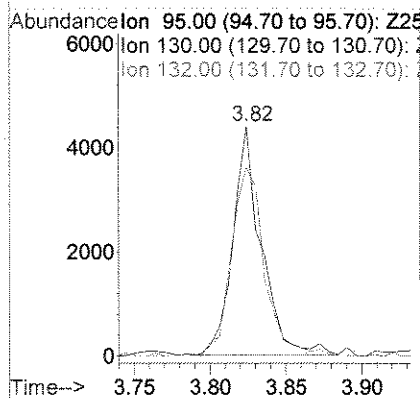
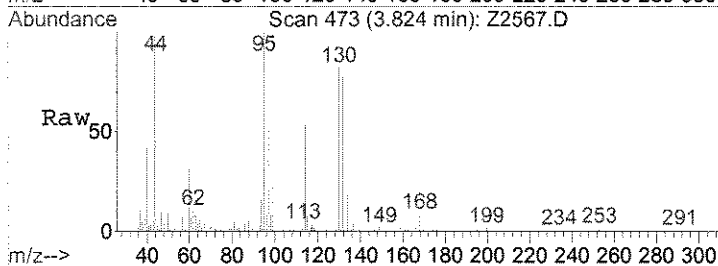
Tgt Ion: 117 Resp: 4506
 Ion Ratio Lower Upper
 117 100
 119 91.1 76.7 115.1





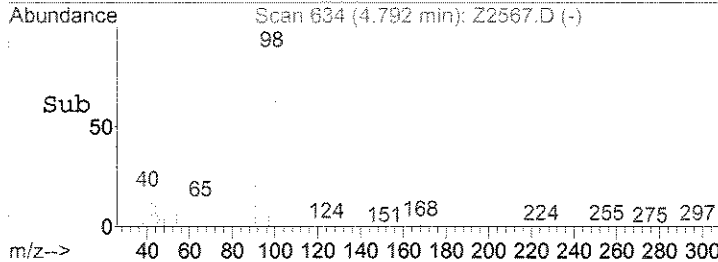
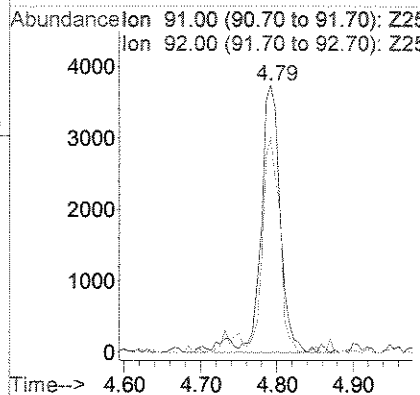
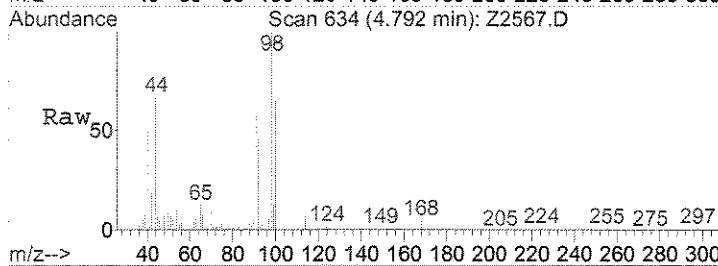
#53
 Trichloroethene
 Concen: 0.78 ppb
 RT: 3.82 min Scan# 473
 Delta R.T. -0.01 min
 Lab File: Z2567.D
 Acq: 24 Jun 2008 8:41 pm

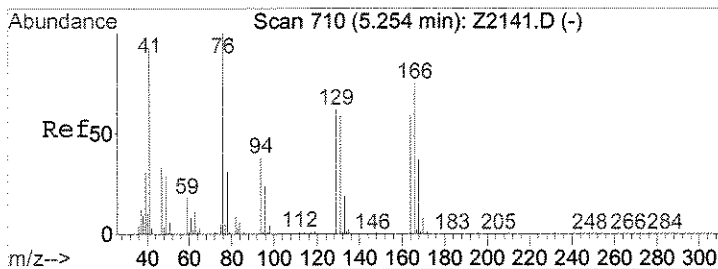
Tgt Ion	Resp	Lower	Upper
95	100		
130	82.0	74.2	111.4
132	76.8	69.4	104.2



#65
 Toluene
 Concen: 0.22 ppb
 RT: 4.79 min Scan# 634
 Delta R.T. -0.01 min
 Lab File: Z2567.D
 Acq: 24 Jun 2008 8:41 pm

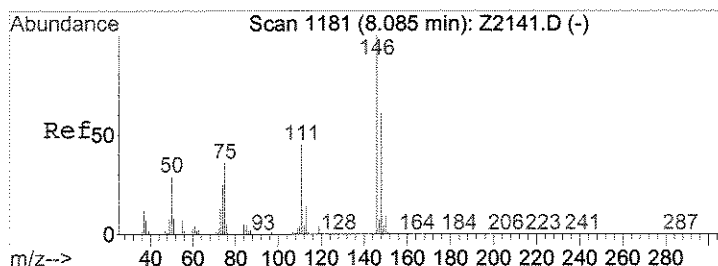
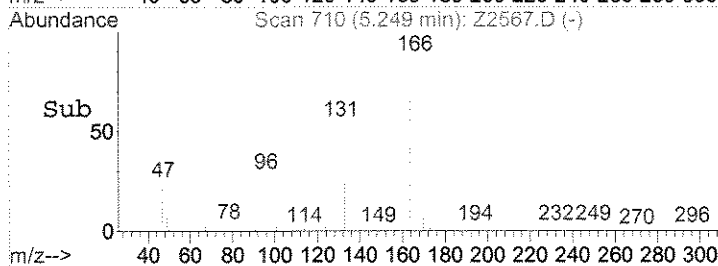
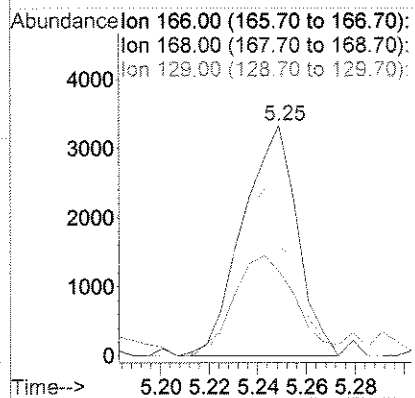
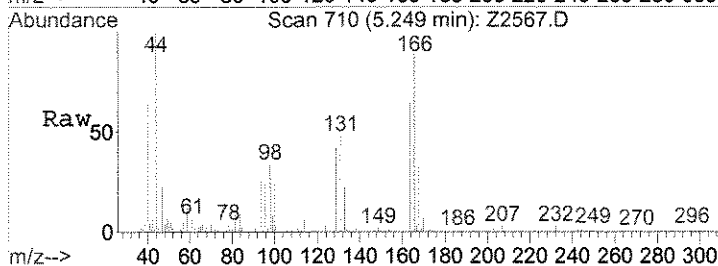
Tgt Ion	Resp	Lower	Upper
91	100		
92	80.4	48.6	72.8#





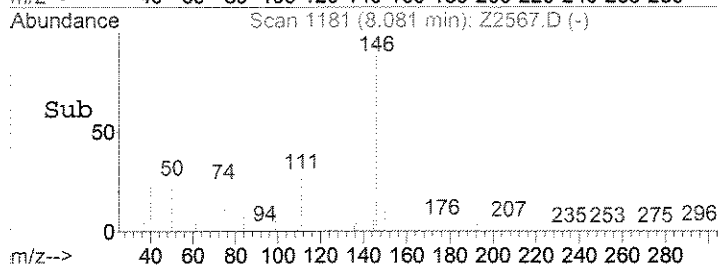
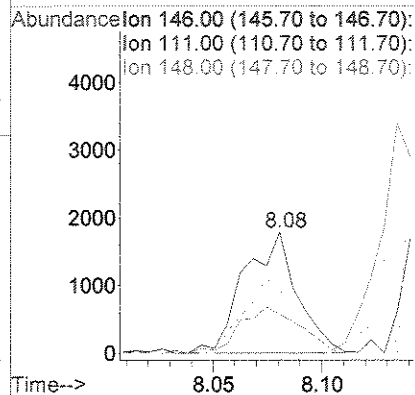
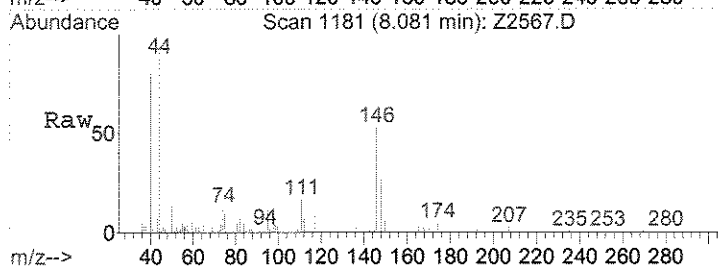
#71
 Tetrachloroethene
 Concen: 0.83 ppb
 RT: 5.25 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: Z2567.D
 Acq: 24 Jun 2008 8:41 pm

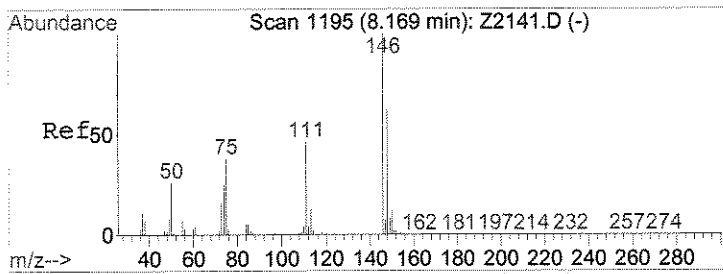
Tgt Ion	Ratio	Lower	Upper
166	100		
168	36.7	39.1	58.7#
129	47.2	66.1	99.1#



#99
 1,3-Dichlorobenzene
 Concen: 0.27 ppb m
 RT: 8.08 min Scan# 1181
 Delta R.T. -0.01 min
 Lab File: Z2567.D
 Acq: 24 Jun 2008 8:41 pm

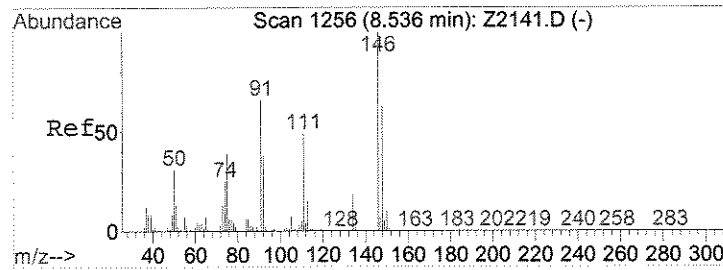
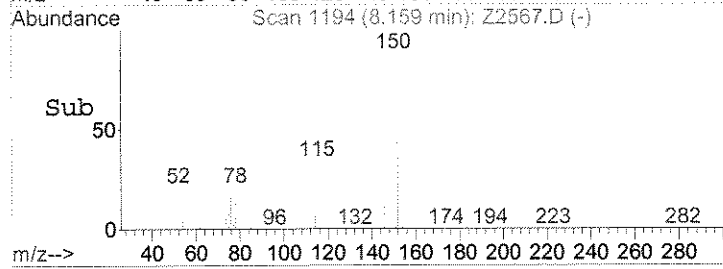
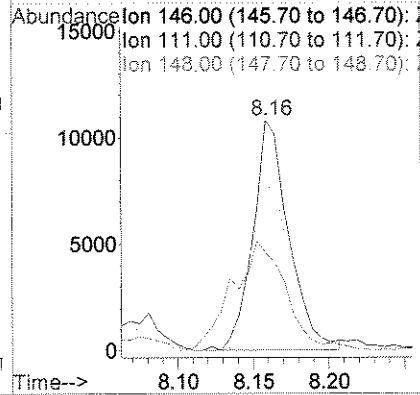
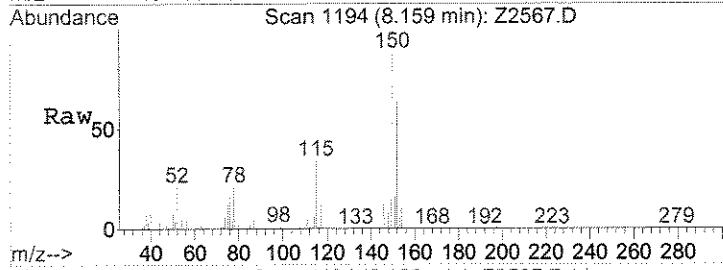
Tgt Ion	Ratio	Lower	Upper
146	100		
111	32.4	36.3	54.5#
148	52.2	49.0	73.4





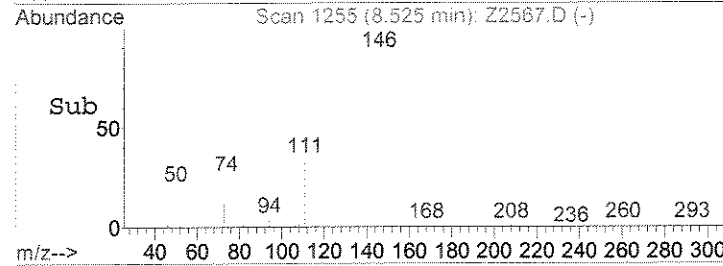
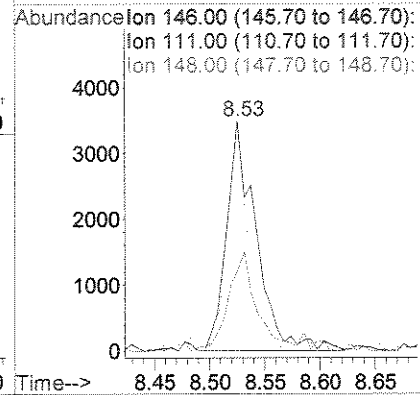
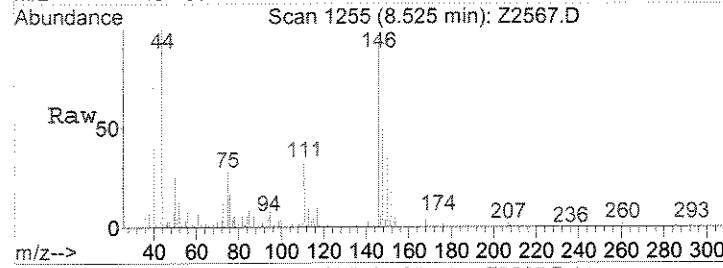
#100
 1,4-Dclbenz
 Concen: 1.53 ppb
 RT: 8.16 min Scan# 1194
 Delta R.T. -0.02 min
 Lab File: Z2567.D
 Acq: 24 Jun 2008 8:41 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.2	37.1	55.7
148	69.7	49.4	74.2



#103
 1,2-Dclbenz
 Concen: 0.64 ppb
 RT: 8.53 min Scan# 1255
 Delta R.T. -0.02 min
 Lab File: Z2567.D
 Acq: 24 Jun 2008 8:41 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.2	39.1	58.7#
148	50.4	50.2	75.2



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66B

Date Sampled : 06/20/08 10:50 Order #: 1111266 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
ANALYTICAL DILUTION: 1.00			
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	0.82 J	UG/L
CHLOROBEZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	5.2	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	0.68 J	UG/L
1,4-DICHLOROBENZENE	2.0	1.6 J	UG/L
1,3-DICHLOROBENZENE	2.0	0.64 J	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.6	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66B

Date Sampled : 06/20/08 10:50 Order #: 1111266 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
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	0.64 J	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	0.53 J	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	0.58 J	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 %)	108	%
TOLUENE-D8	(70 - 130 %)	103	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	99	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2568.D Vial: 27
 Acq On : 24 Jun 2008 9:08 pm Operator: Herring
 Sample : 1111266 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 21:20 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	703446	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1303990	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.95	117	1116689	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	451416	50.00	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) surr4,Dibrflmethane	3.11	113	384106	49.31	ppb	0.00
Spiked Amount 50.000			Recovery =	98.62%		
48) surr1,1,2-Dicethane	3.34	65	357524	43.82	ppb	0.00
Spiked Amount 50.000			Recovery =	87.64%		
69) surr3,Toluene-d8	4.74	98	1479790	51.34	ppb	-0.01
Spiked Amount 50.000			Recovery =	102.68%		
70) surr2,bfb	7.02	95	550159	53.84	ppb	-0.02
Spiked Amount 50.000			Recovery =	107.68%		

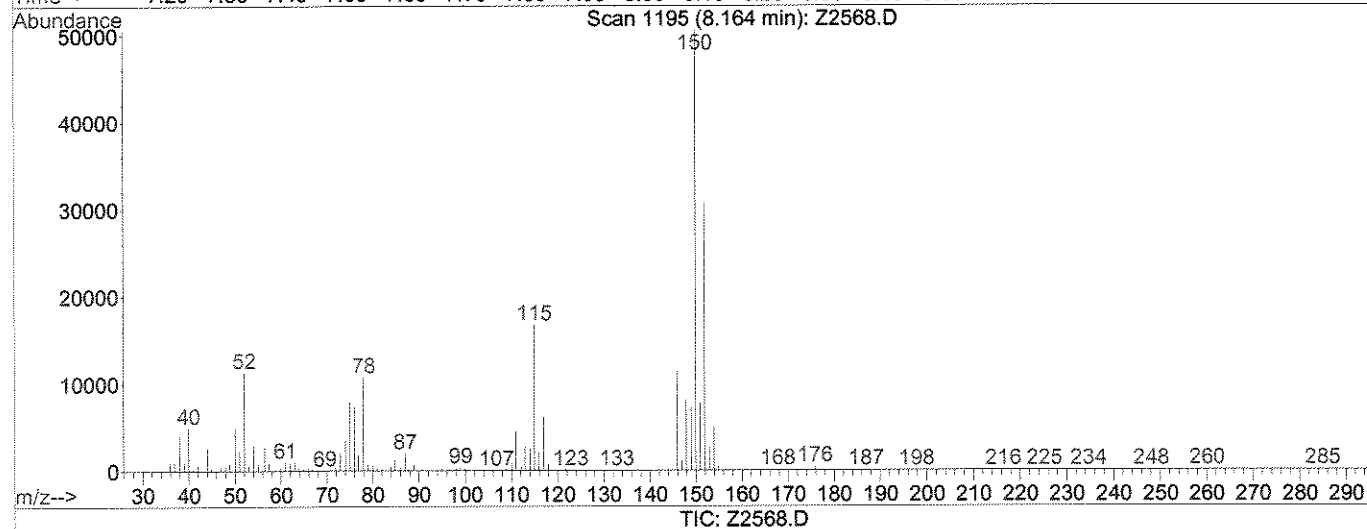
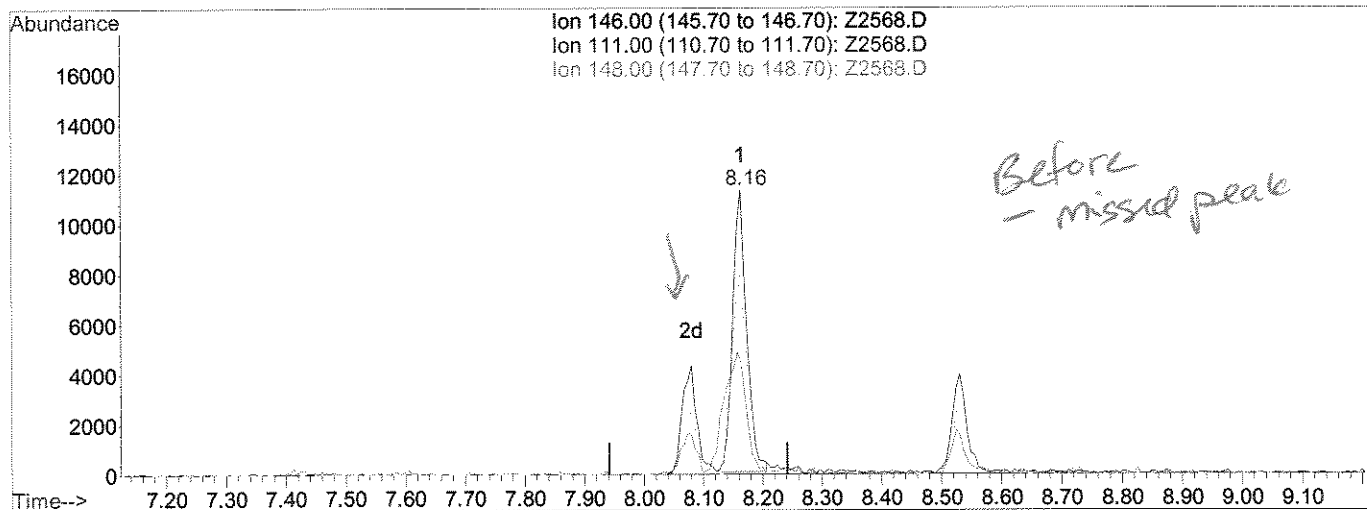
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Diethyl Ether	1.70	59	5939	0.99	ppb	90 NT
16) Acetone	1.85	43	2347	Below Cal	#	76
23) Methylene Chloride	2.09	84	5547	0.64	ppb	97 J
24) TBA	2.12	59	1107	2.77	ppb	# 1
28) 1,1-Dicethane	2.48	63	26737	1.56	ppb	# 96
39) Chloroform	3.01	83	73269	5.18	ppb	# 98
40) Tetrahydrofuran	3.01	42	811	0.47	ppb	# 40
44) cyclohexane	3.12	56	17097	1.07	ppb	# 1
45) Carbontetrachloride	3.26	117	6954	0.82	ppb	95 J
53) Trichloroethene	3.82	95	4301	0.58	ppb	# 87 J
57) 1,4-Dioxane	4.15	88	253	8.50	ppb	# 8
64) 4-Methyl-2-Pentanone	4.73	43	10341	1.64	ppb	# 1
71) Tetrachloroethene	5.24	166	3301	0.53	ppb	# 79 J
84) Cyclohexanone	6.97	55	839	1.90	ppb	# 42
99) 1,3-Dclbenz <i>R#7/7 → 808</i>	8.16	146	<i>7244</i> 18426 <i>DW</i>	1.64	ppb	89 J
100) 1,4-Dclbenz	8.16	146	18674	1.61	ppb	89 J
103) 1,2-Dclbenz	8.53	146	6882	0.68	ppb	# 88 J

R#7/7

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2568.D Vial: 27
 Acq On : 24 Jun 2008 9:08 pm Operator: Herring
 Sample : 1111266 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 7 16:51 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(99) 1,3-Dclbenz

8.16min 1.64ppb

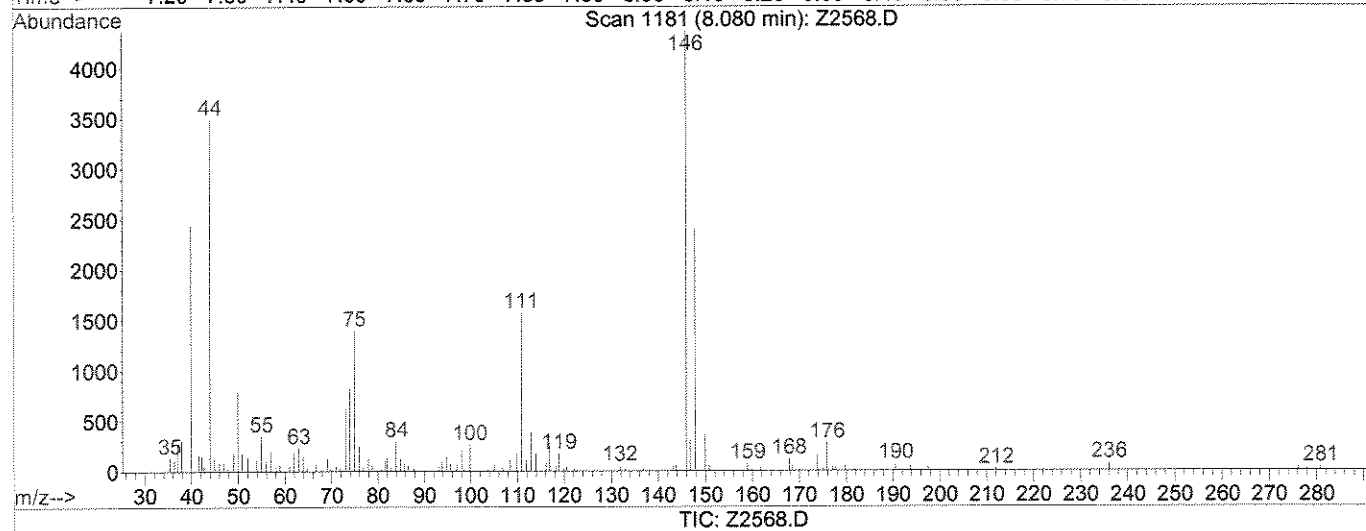
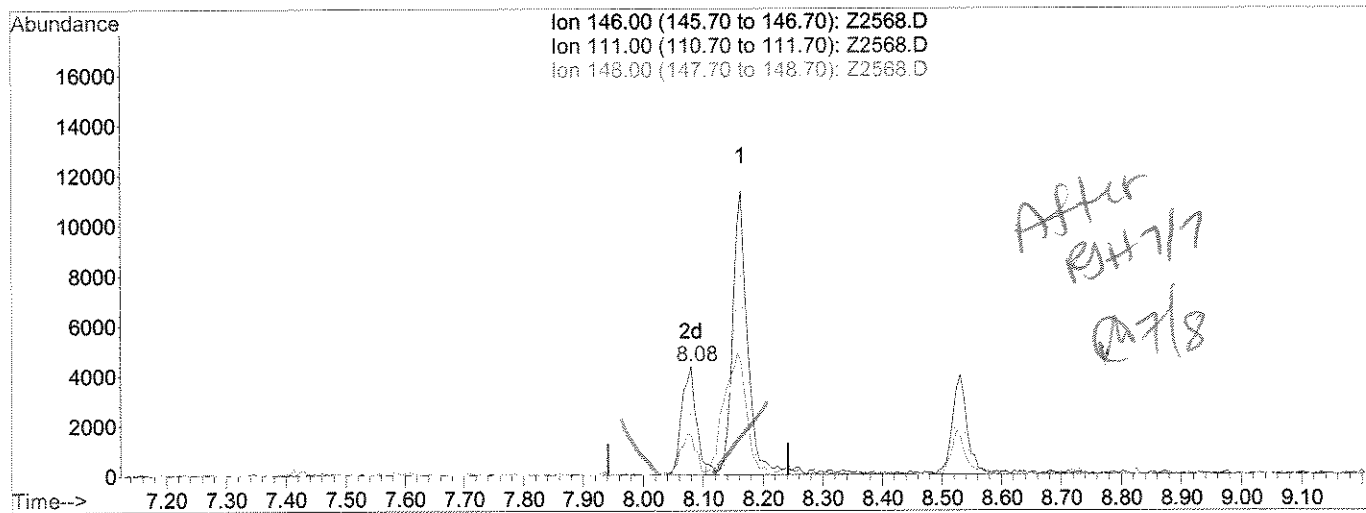
response 18426

Ion	Exp%	Act%
146.00	100	100
111.00	45.40	39.28
148.00	61.20	70.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2568.D Vial: 27
 Acq On : 24 Jun 2008 9:08 pm Operator: Herring
 Sample : 1111266 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 7 16:51 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(99) 1,3-Dcibenz

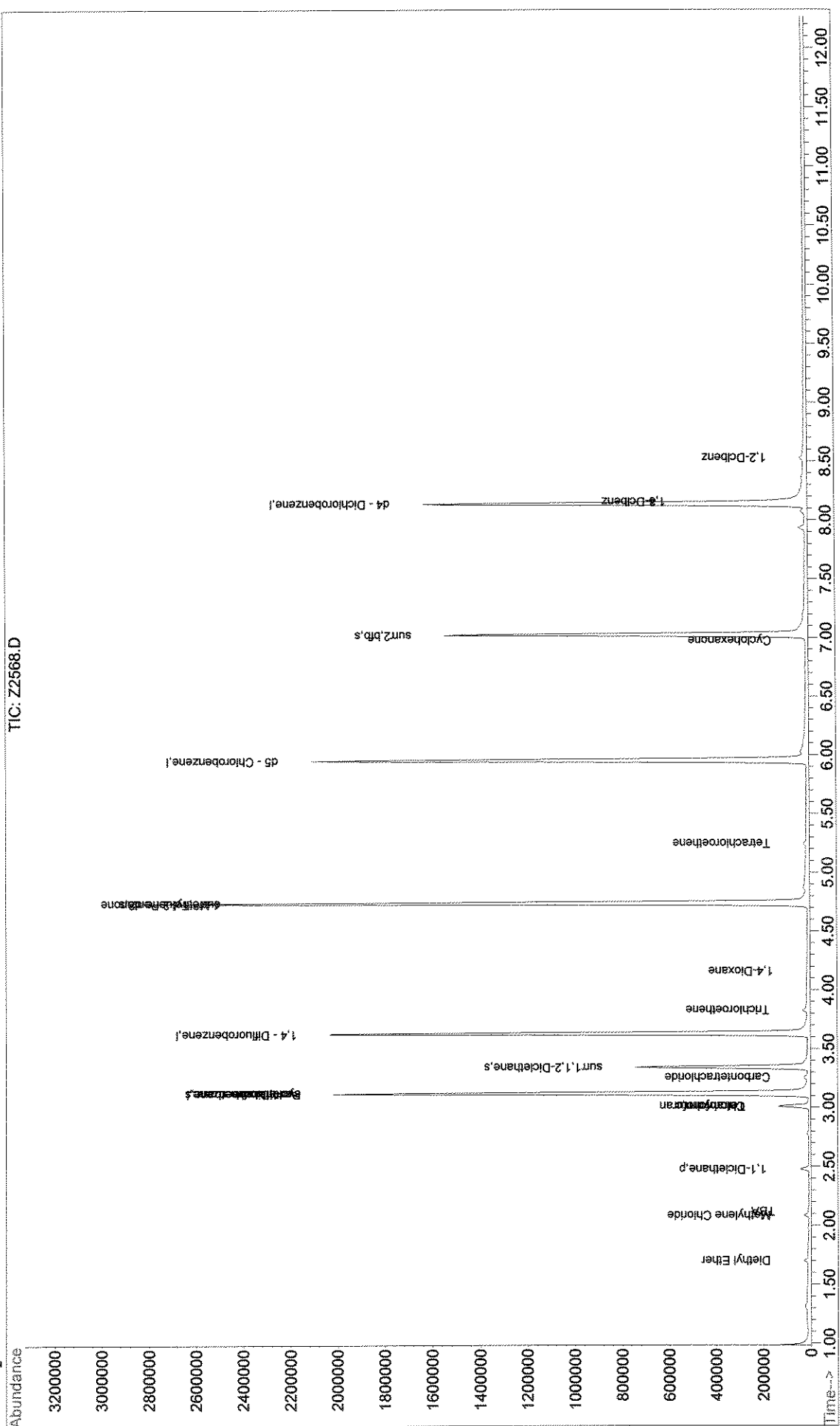
8.08min 0.64ppb m

response 7244

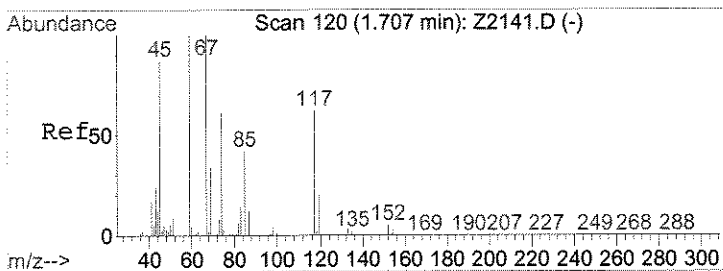
Ion	Exp%	Act%
146.00	100	100
111.00	45.40	36.04#
148.00	61.20	54.97
0.00	0.00	0.00

Data File : J:\ACQDATA\MSVOA8\DATA\062408\Z2568.D Vial: 27
 Acq On : 24 Jun 2008 9:08 pm Operator: Herring
 Sample : 1111266 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 21:20 2008 Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration

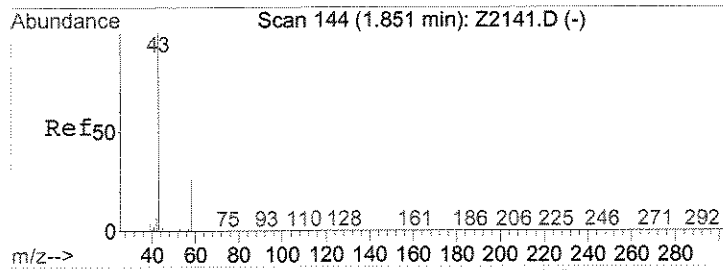
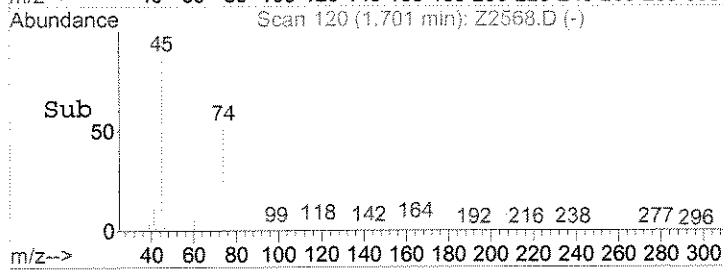
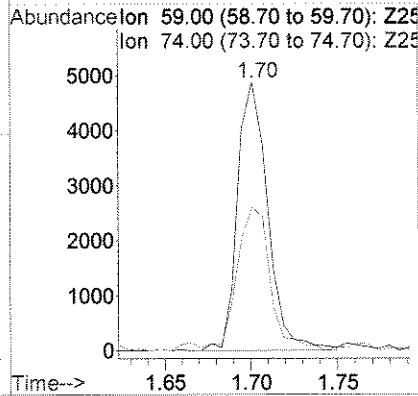
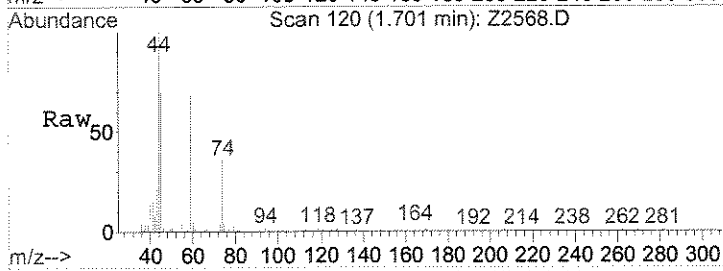


00151



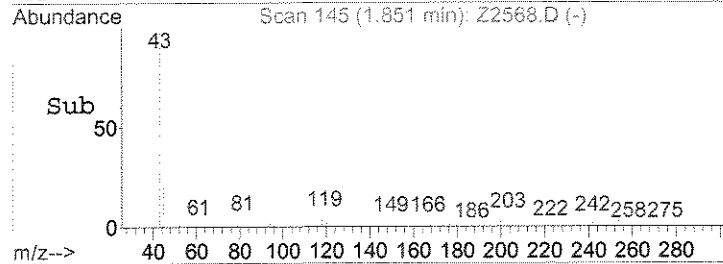
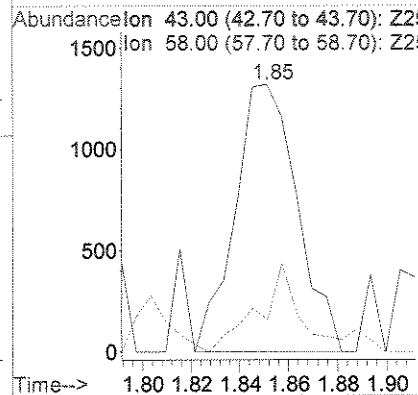
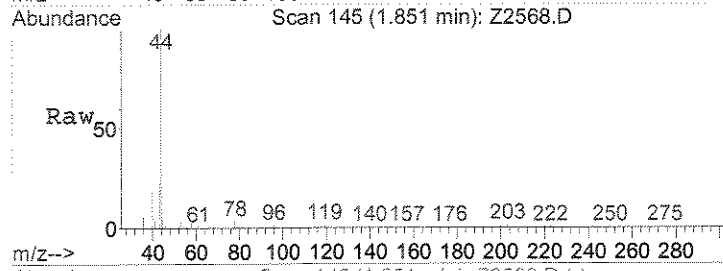
#10
 Diethyl Ether
 Concen: 0.99 ppb
 RT: 1.70 min Scan# 120
 Delta R.T. 0.00 min
 Lab File: Z2568.D
 Acq: 24 Jun 2008 9:08 pm

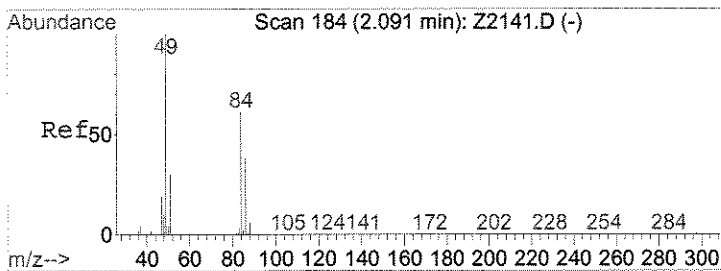
Tgt Ion	Resp	Lower	Upper
59	5939		
59	100		
74	53.4	45.8	76.3



#16
 Acetone
 Concen: Below Cal
 RT: 1.85 min Scan# 145
 Delta R.T. 0.00 min
 Lab File: Z2568.D
 Acq: 24 Jun 2008 9:08 pm

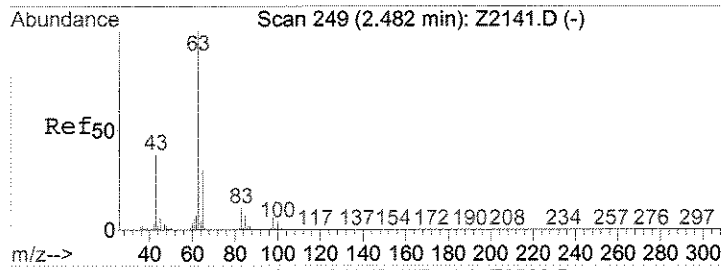
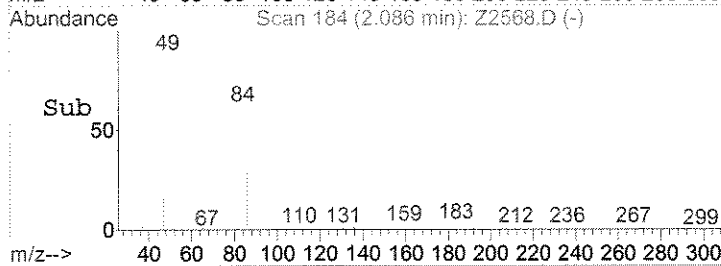
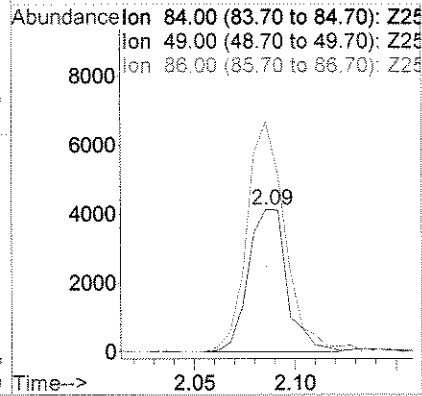
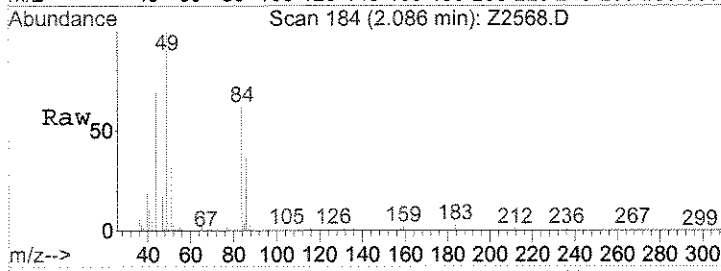
Tgt Ion	Resp	Lower	Upper
43	2347		
43	100		
58	11.9	19.0	28.6#





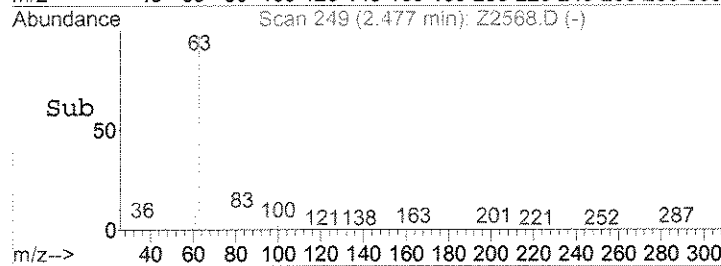
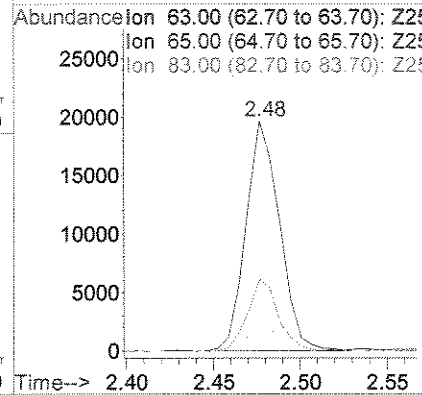
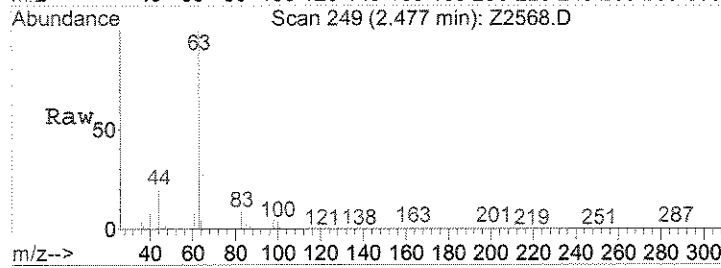
#23
 Methylene Chloride
 Concen: 0.64 ppb
 RT: 2.09 min Scan# 184
 Delta R.T. 0.00 min
 Lab File: Z2568.D
 Acq: 24 Jun 2008 9:08 pm

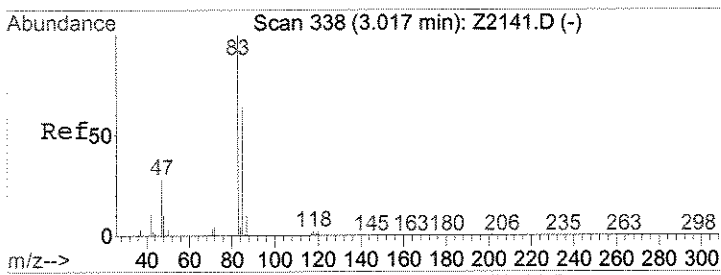
Tgt Ion	Ratio	Lower	Upper
84	100		
49	161.8	132.2	198.4
86	60.5	50.5	75.7



#28
 1,1-Dicethane
 Concen: 1.56 ppb
 RT: 2.48 min Scan# 249
 Delta R.T. -0.01 min
 Lab File: Z2568.D
 Acq: 24 Jun 2008 9:08 pm

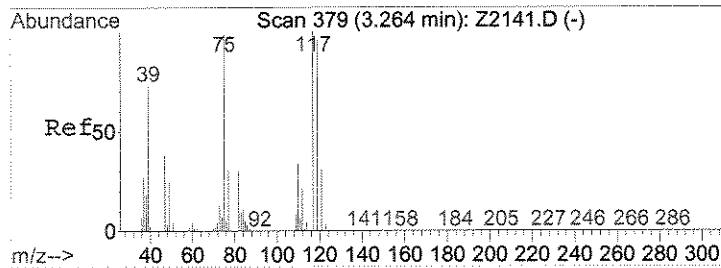
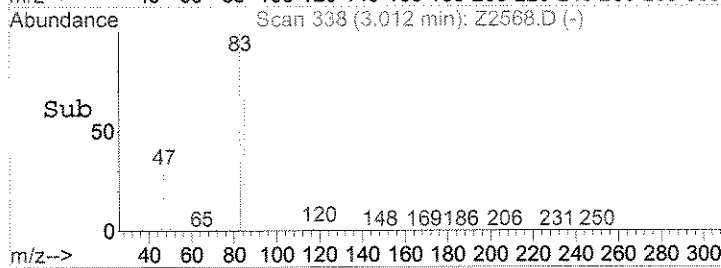
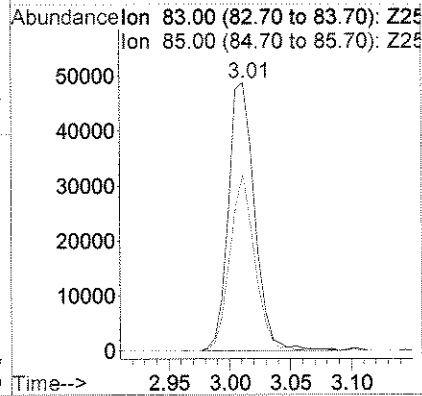
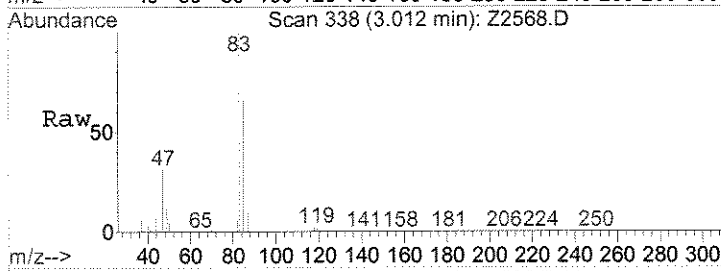
Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.1	36.1
83	9.0	9.1	13.7#





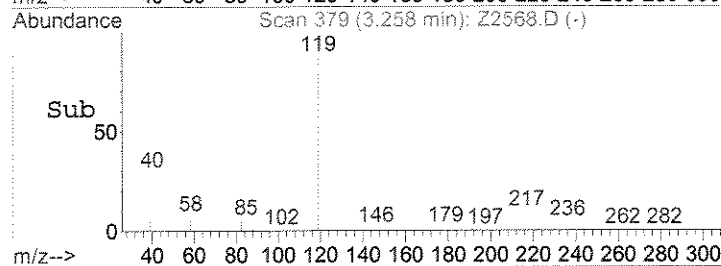
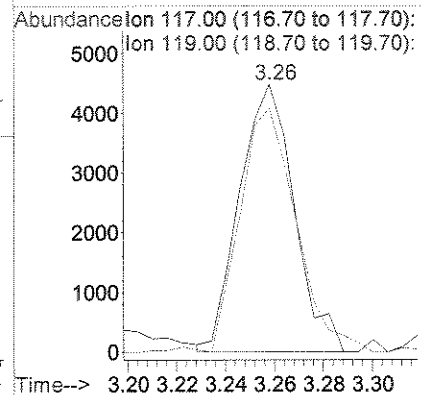
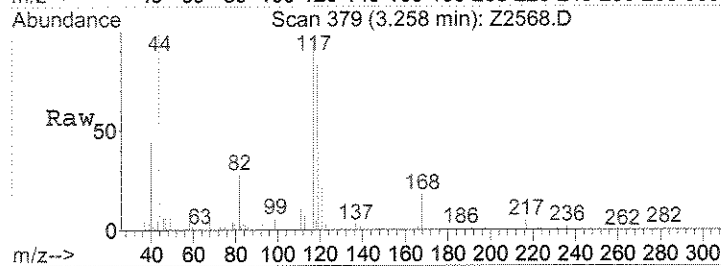
#39
 Chloroform
 Concen: 5.18 ppb
 RT: 3.01 min Scan# 338
 Delta R.T. -0.01 min
 Lab File: Z2568.D
 Acq: 24 Jun 2008 9:08 pm

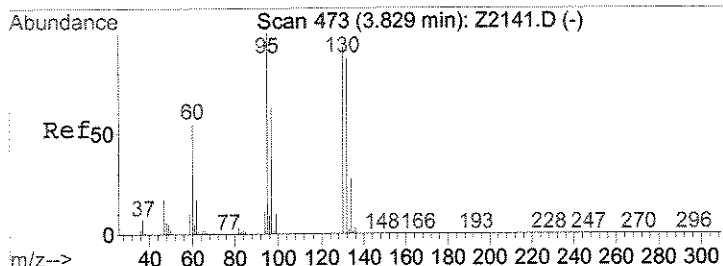
Tgt Ion	83	Resp	73269
Ion Ratio	100	Lower	Upper
83	100		
85	65.7	51.3	76.9



#45
 Carbontetrachloride
 Concen: 0.82 ppb
 RT: 3.26 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: Z2568.D
 Acq: 24 Jun 2008 9:08 pm

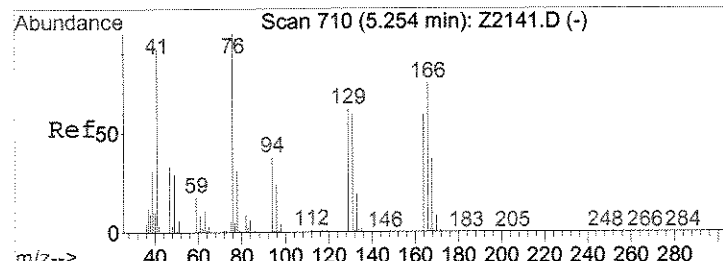
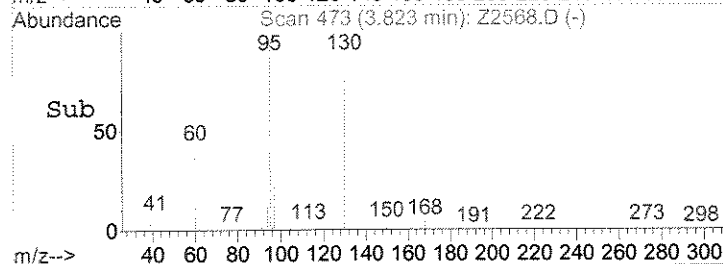
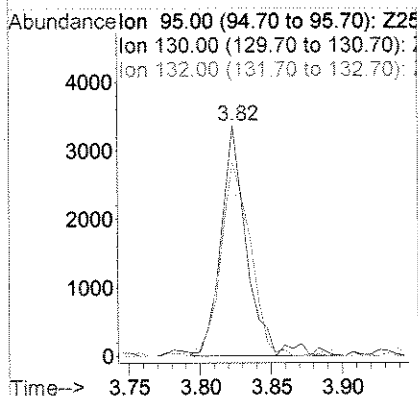
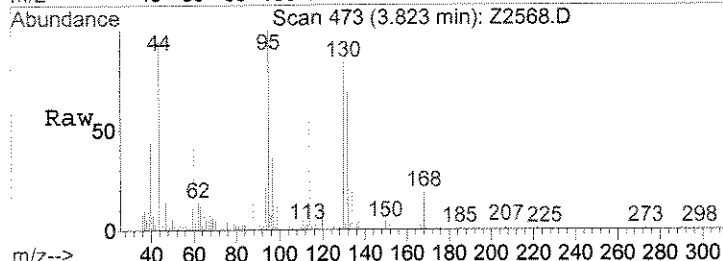
Tgt Ion	117	Resp	6954
Ion Ratio	100	Lower	Upper
117	100		
119	91.2	76.7	115.1





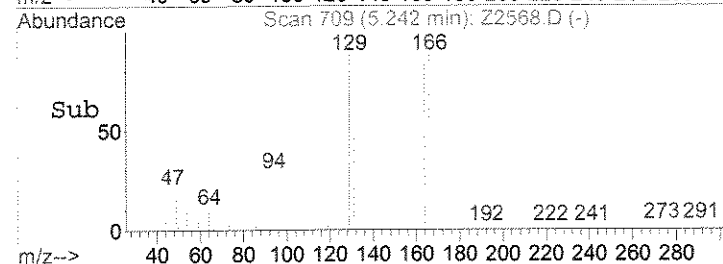
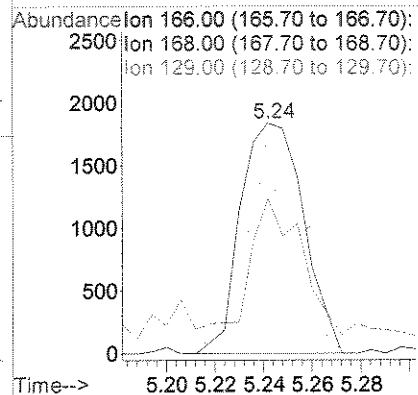
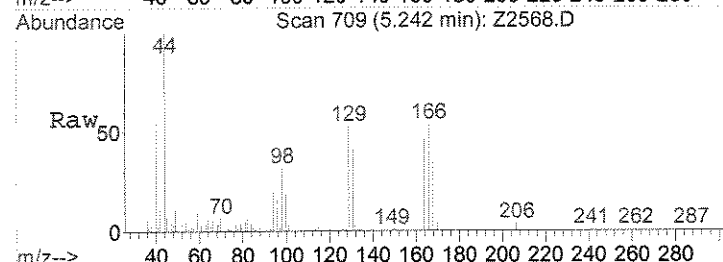
#53
 Trichloroethene
 Concen: 0.58 ppb
 RT: 3.82 min Scan# 473
 Delta R.T. -0.01 min
 Lab File: Z2568.D
 Acq: 24 Jun 2008 9:08 pm

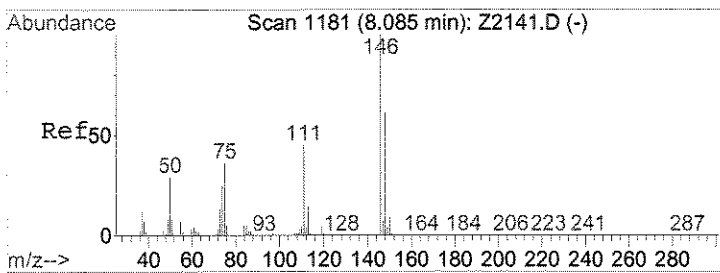
Tgt Ion	Ratio	Lower	Upper
95	100		
130	87.1	74.2	111.4
132	68.6	69.4	104.2#



#71
 Tetrachloroethene
 Concen: 0.53 ppb
 RT: 5.24 min Scan# 709
 Delta R.T. -0.01 min
 Lab File: Z2568.D
 Acq: 24 Jun 2008 9:08 pm

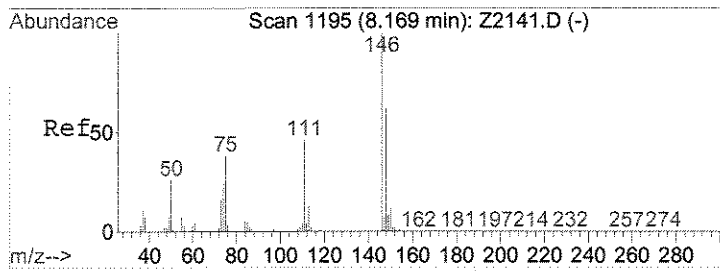
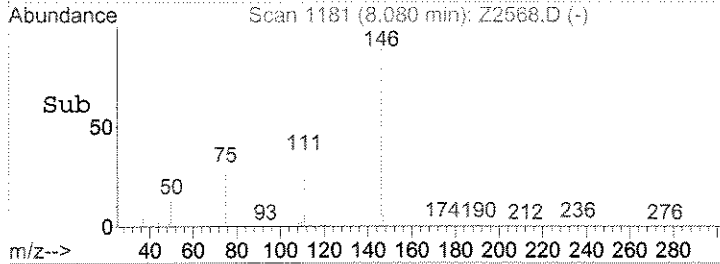
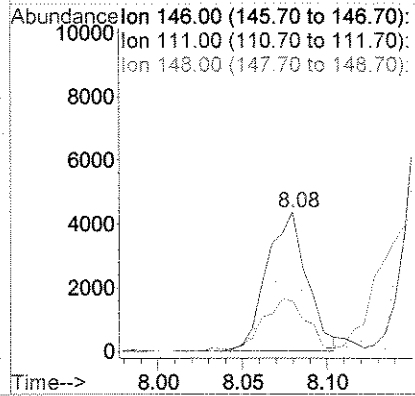
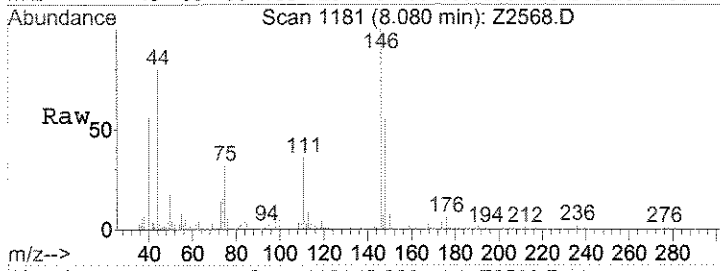
Tgt Ion	Ratio	Lower	Upper
166	100		
168	67.3	39.1	58.7#
129	97.9	66.1	99.1





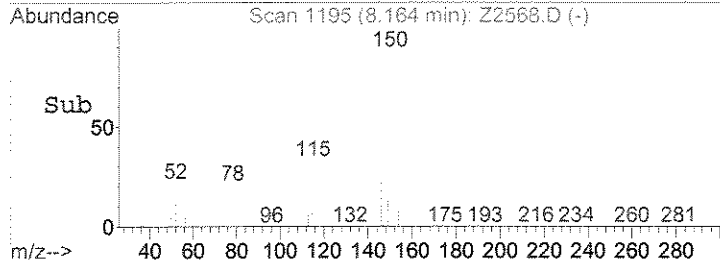
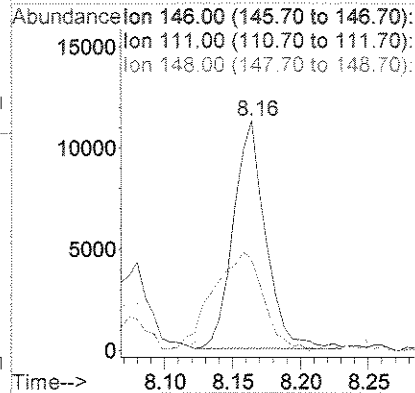
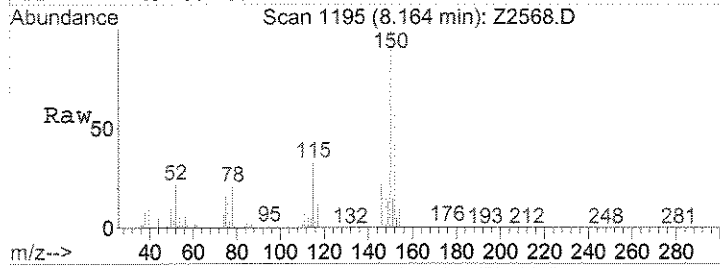
#99
 1,3-Dclbenz
 Concen: 0.64 ppb m
 RT: 8.08 min Scan# 1181
 Delta R.T. -0.01 min
 Lab File: Z2568.D
 Acq: 24 Jun 2008 9:08 pm

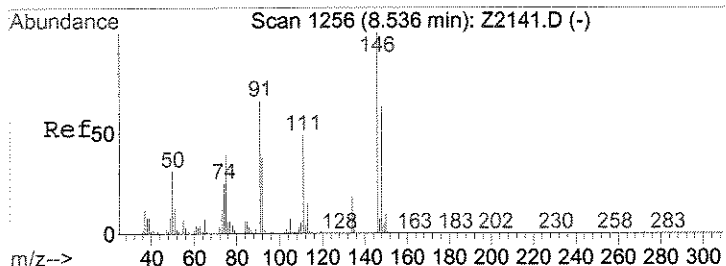
Tgt Ion	Resp	Lower	Upper
146	100		
111	36.0	36.3	54.5#
148	55.0	49.0	73.4



#100
 1,4-Dclbenz
 Concen: 1.61 ppb
 RT: 8.16 min Scan# 1195
 Delta R.T. -0.01 min
 Lab File: Z2568.D
 Acq: 24 Jun 2008 9:08 pm

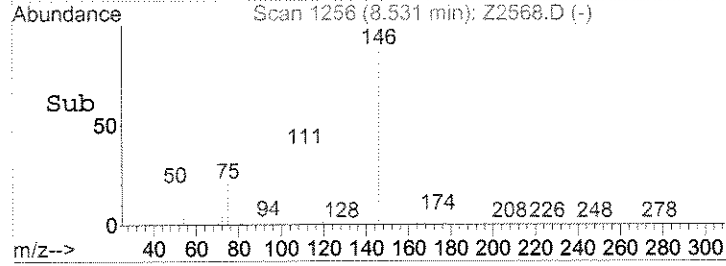
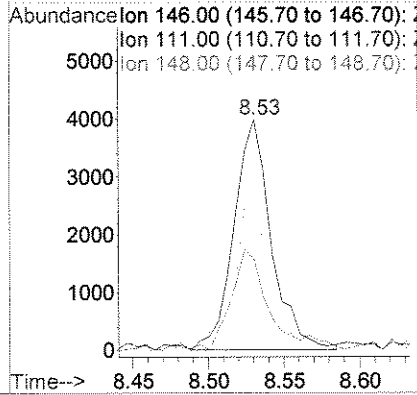
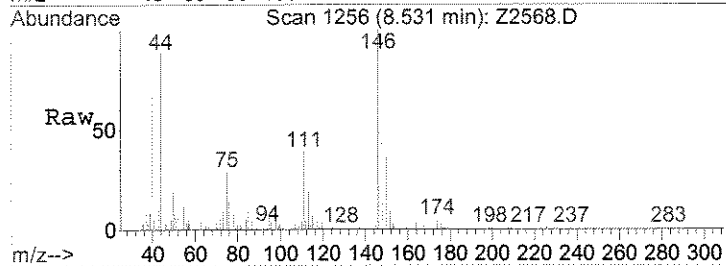
Tgt Ion	Resp	Lower	Upper
146	100		
111	39.3	37.1	55.7
148	70.5	49.4	74.2





#103
 1,2-Dclbenz
 Concen: 0.68 ppb
 RT: 8.53 min Scan# 1256
 Delta R.T. -0.01 min
 Lab File: Z2568.D
 Acq: 24 Jun 2008 9:08 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	39.1	58.7#
148	55.3	50.2	75.2



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-37B

Date Sampled : 06/20/08 10:00 Order #: 1111267 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
ANALYTICAL DILUTION:	1.00		
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	0.38 J	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	2.0	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	0.21 J	UG/L
1, 4-DICHLOROBENZENE	2.0	0.29 J	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	0.31 J	UG/L
1, 2-DICHLOROETHANE	1.0	0.22 J	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-37B

Date Sampled : 06/20/08 10:00 Order #: 1111267 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
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	0.33 J	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	0.76 J	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	0.31 J	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 %)	106	%
TOLUENE-D8	(70 - 130 %)	104	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	99	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2569.D Vial: 28
 Acq On : 24 Jun 2008 9:36 pm Operator: Herring
 Sample : 1111267 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 21:49 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	654899	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.62	114	1207929	50.00	ppb	-0.01
63) d5 - Chlorobenzene	5.95	117	1028016	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	412845	50.00	ppb	-0.01

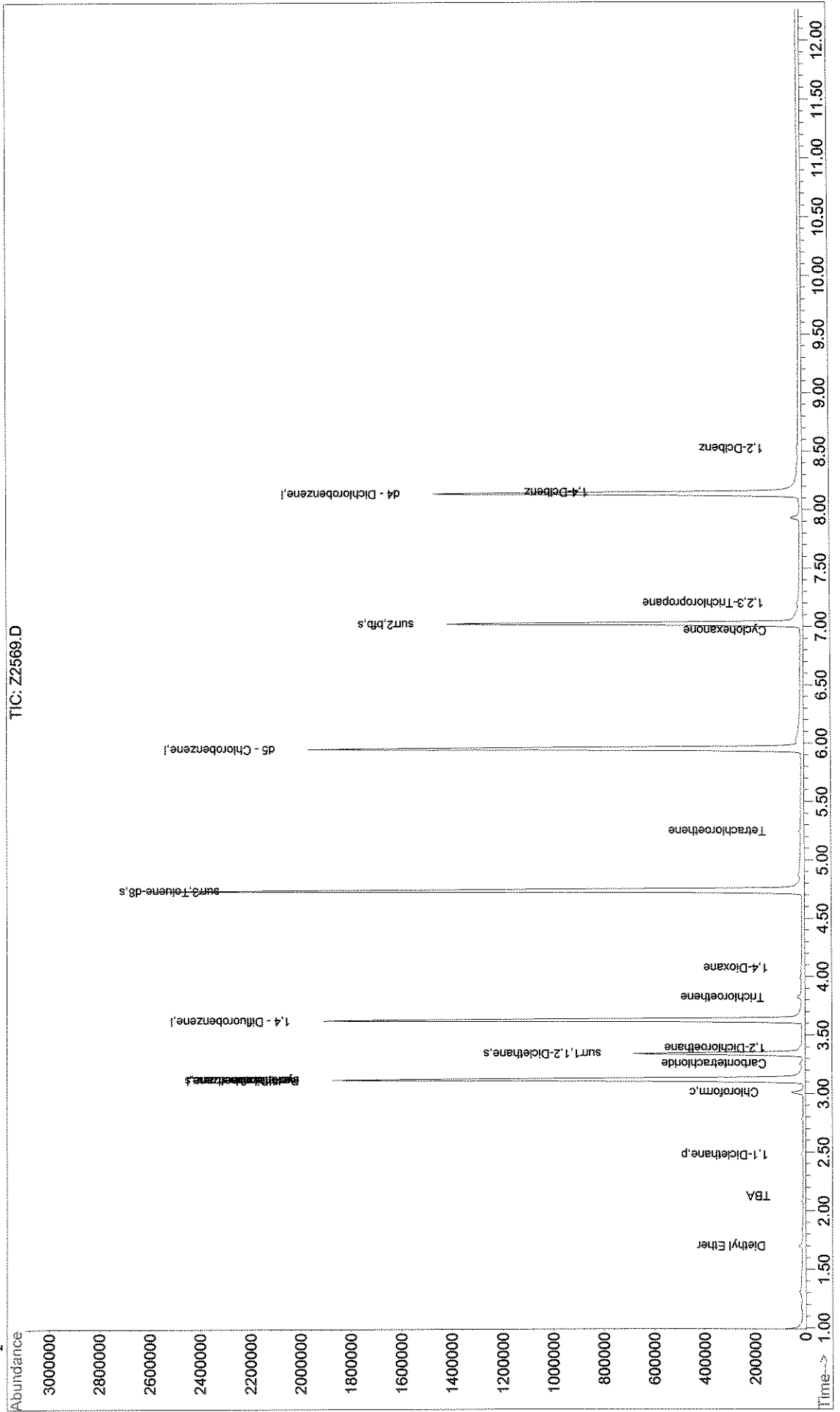
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) surr4,Dibrflmethane	3.11	113	356132	49.35	ppb	0.00
Spiked Amount 50.000			Recovery =	98.70%		
48) surr1,1,2-Diclcethane	3.34	65	328963	43.53	ppb	0.00
Spiked Amount 50.000			Recovery =	87.06%		
69) surr3,Toluene-d8	4.74	98	1380064	52.01	ppb	-0.01
Spiked Amount 50.000			Recovery =	104.02%		
70) surr2,bfb	7.02	95	496981	52.83	ppb	-0.02
Spiked Amount 50.000			Recovery =	105.66%		

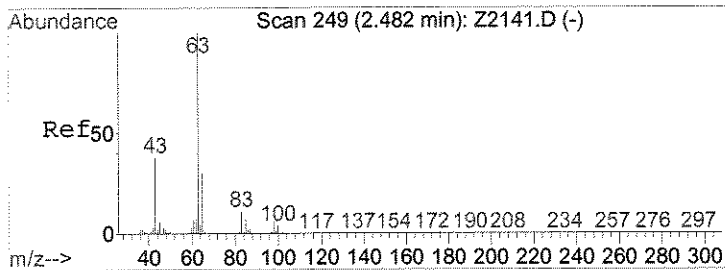
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Diethyl Ether	1.70	59	4902	0.88	ppb	95 NT
16) Acetone	1.85	43	1750	Below Cal	#	90
24) TBA	2.13	59	1036	2.78	ppb	# 30
28) 1,1-Diclcethane	2.48	63	4926	0.31	ppb	95 J
39) Chloroform	3.01	83	26042	1.98	ppb	97
44) cyclohexane	3.12	56	15655	1.05	ppb	# 1
45) Carbontetrachloride	3.25	117	2969	0.38	ppb	82 J
50) 1,2-Dichloroethane	3.40	62	1830	0.22	ppb	# 69 J
53) Trichloroethene	3.82	95	5193	0.76	ppb	95 J
57) 1,4-Dioxane	4.07	88	472	17.12	ppb	# 23
71) Tetrachloroethene	5.24	166	1896	0.33	ppb	# 69 J
84) Cyclohexanone	6.97	55	630	1.55	ppb	# 1
88) 1,2,3-Trichloropropane	7.20	110	432	0.31	ppb	# 59 J
100) 1,4-Dclbenz	8.16	146	3108	0.29	ppb	# 81 J
103) 1,2-Dclbenz	8.52	146	1959	0.21	ppb	# 85 J

RJH
7/7

Data File : J:\ACQDATA\MSVOA8\DATA\062408\Z2569.D Vial: 28
 Acq On : 24 Jun 2008 9:36 pm Operator: Herring
 Sample : 1111267 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 21:49 2008 Quant Results File: W060208.RE5

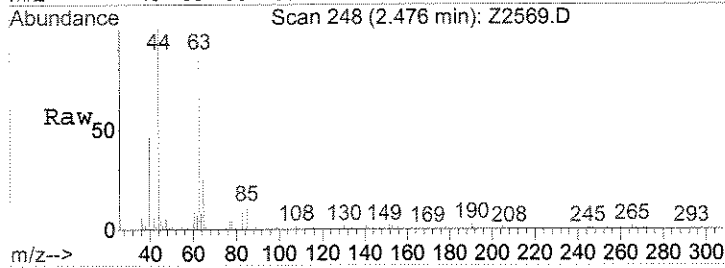
Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration



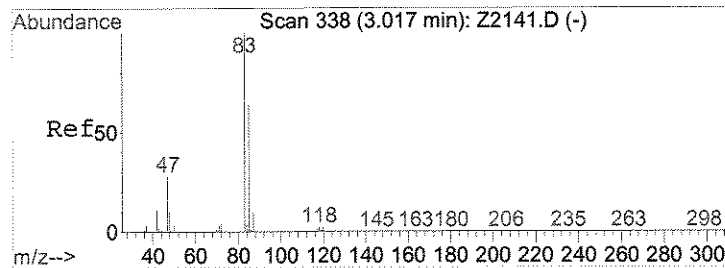
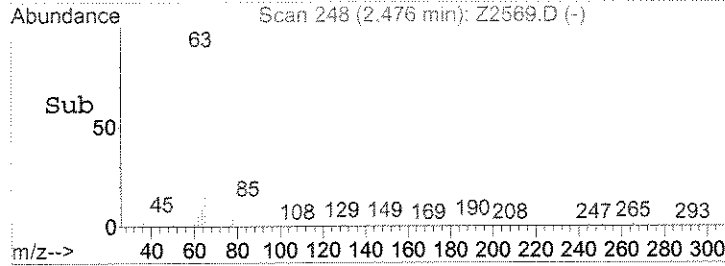
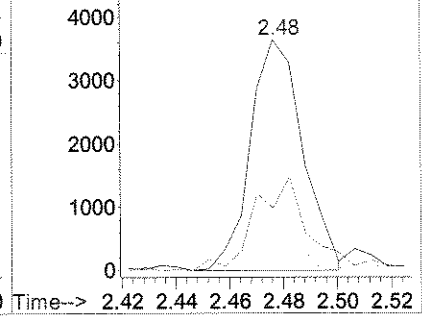


#28
 1,1-Diclcethane
 Concen: 0.31 ppb
 RT: 2.48 min Scan# 248
 Delta R.T. -0.01 min
 Lab File: Z2569.D
 Acq: 24 Jun 2008 9:36 pm

Tgt Ion	Ratio	Lower	Upper
63	100		
65	27.1	24.1	36.1
83	9.9	9.1	13.7

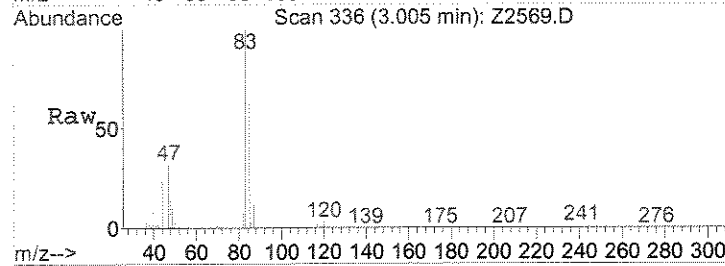


Abundance Ion 63.00 (62.70 to 63.70): Z25
 Ion 65.00 (64.70 to 65.70): Z25
 Ion 83.00 (82.70 to 83.70): Z25

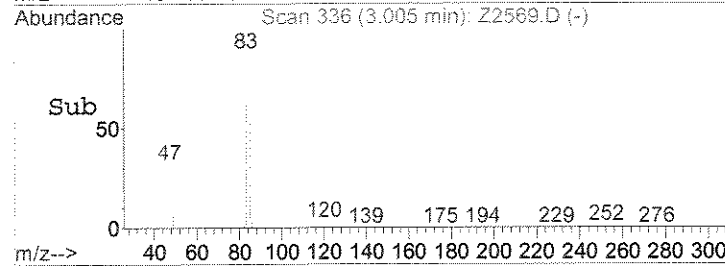
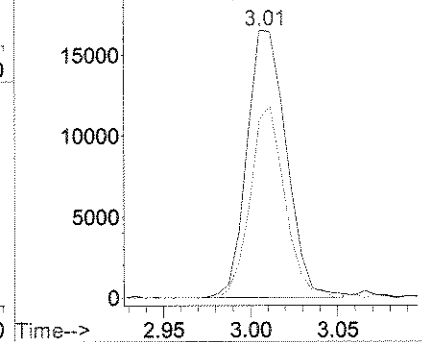


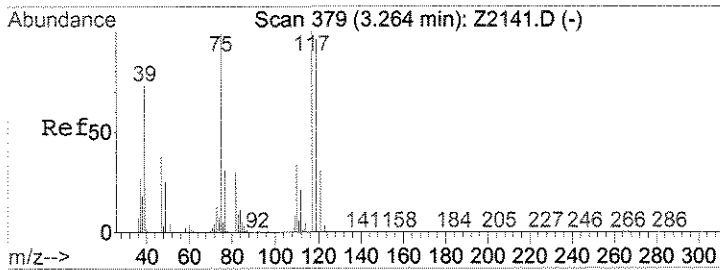
#39
 Chloroform
 Concen: 1.98 ppb
 RT: 3.01 min Scan# 336
 Delta R.T. -0.01 min
 Lab File: Z2569.D
 Acq: 24 Jun 2008 9:36 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.3	76.9



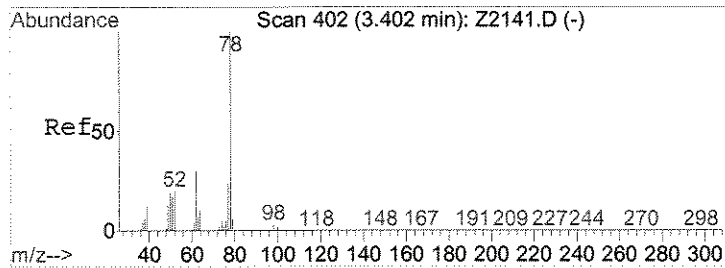
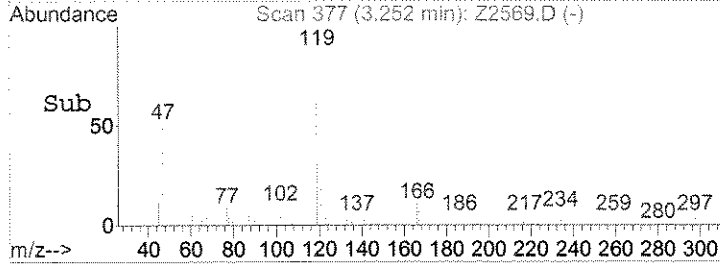
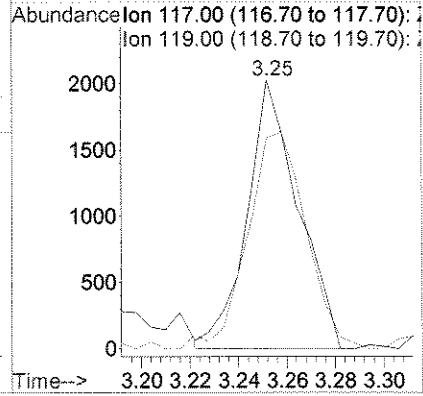
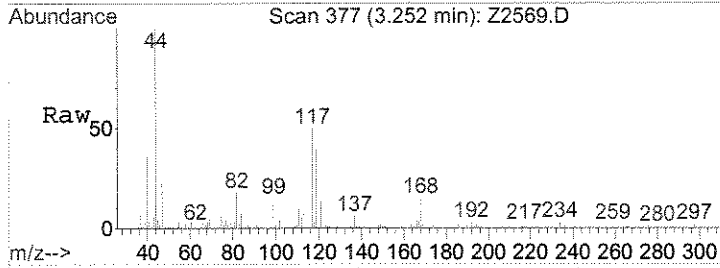
Abundance Ion 83.00 (82.70 to 83.70): Z25
 Ion 85.00 (84.70 to 85.70): Z25





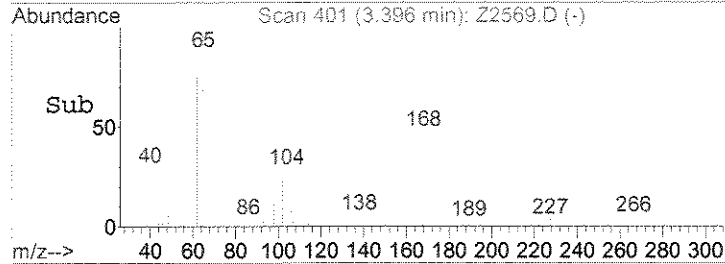
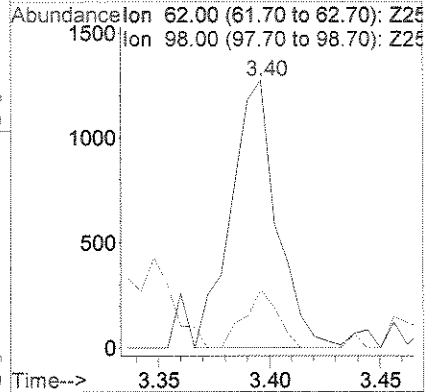
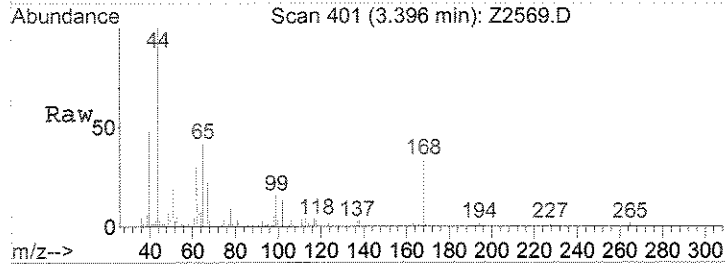
#45
 Carbontetrachloride
 Concen: 0.38 ppb
 RT: 3.25 min Scan# 377
 Delta R.T. -0.01 min
 Lab File: Z2569.D
 Acq: 24 Jun 2008 9:36 pm

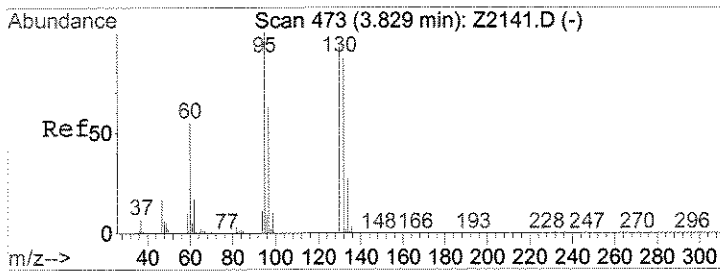
Tgt Ion	Ratio	Lower	Upper
117	100		
119	78.7	76.7	115.1



#50
 1,2-Dichloroethane
 Concen: 0.22 ppb
 RT: 3.40 min Scan# 401
 Delta R.T. -0.01 min
 Lab File: Z2569.D
 Acq: 24 Jun 2008 9:36 pm

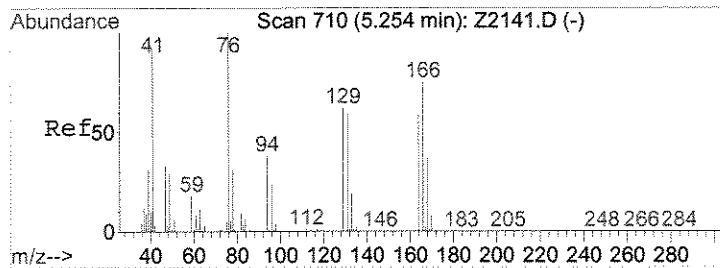
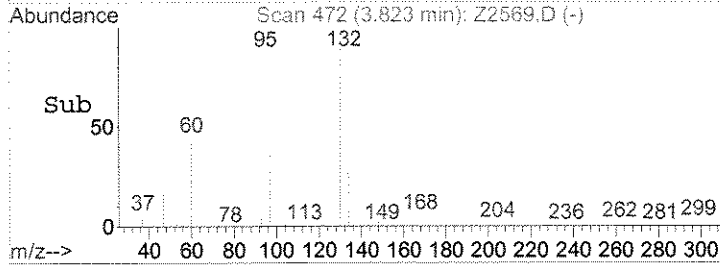
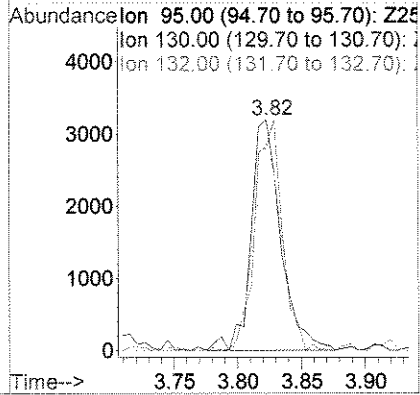
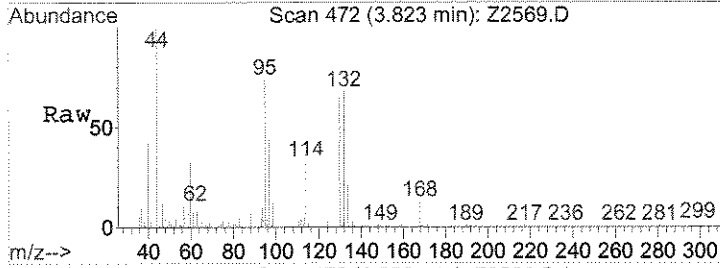
Tgt Ion	Ratio	Lower	Upper
62	100		
98	21.8	8.3	12.5#





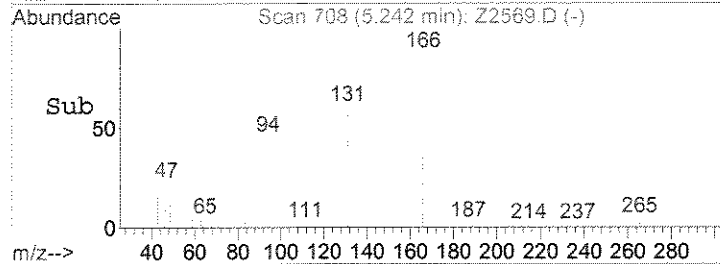
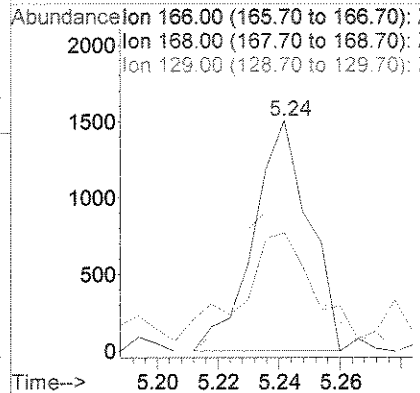
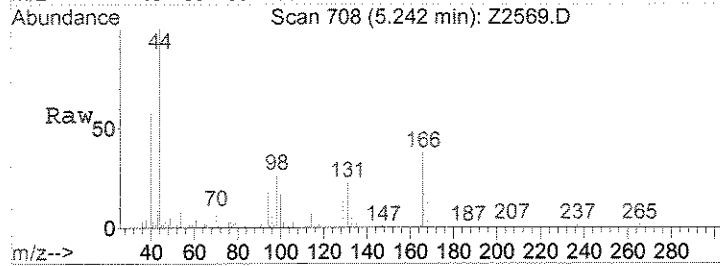
#53
 Trichloroethene
 Concen: 0.76 ppb
 RT: 3.82 min Scan# 472
 Delta R.T. -0.01 min
 Lab File: Z2569.D
 Acq: 24 Jun 2008 9:36 pm

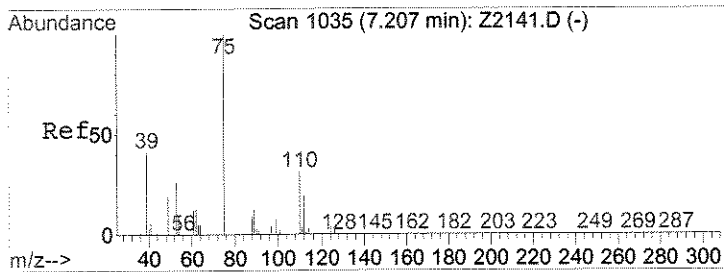
Tgt Ion	Resp	Lower	Upper
95	5193		
130	88.7	74.2	111.4
132	91.7	69.4	104.2



#71
 Tetrachloroethene
 Concen: 0.33 ppb
 RT: 5.24 min Scan# 708
 Delta R.T. -0.01 min
 Lab File: Z2569.D
 Acq: 24 Jun 2008 9:36 pm

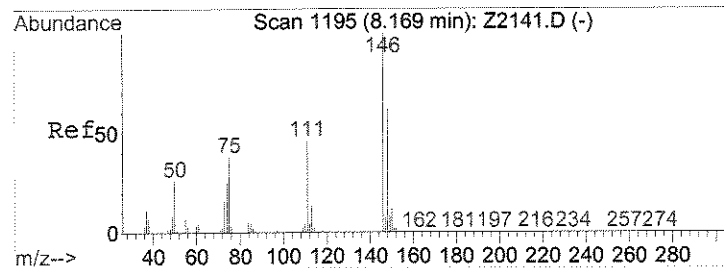
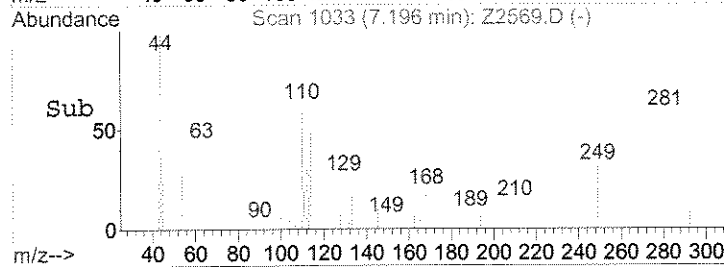
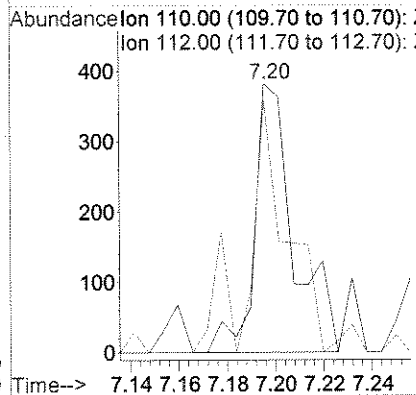
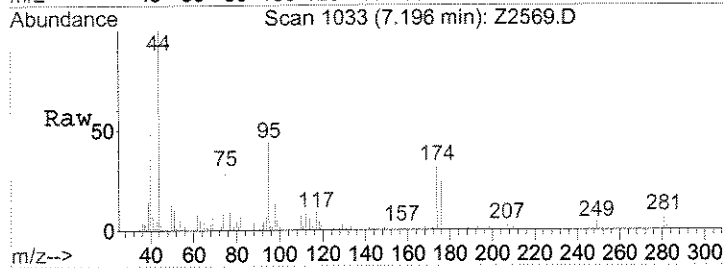
Tgt Ion	Resp	Lower	Upper
166	1896		
168	51.2	39.1	58.7
129	39.6	66.1	99.1#





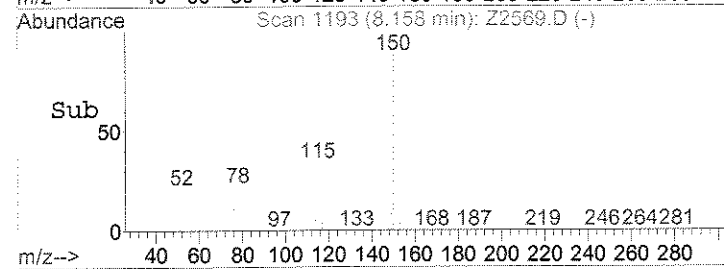
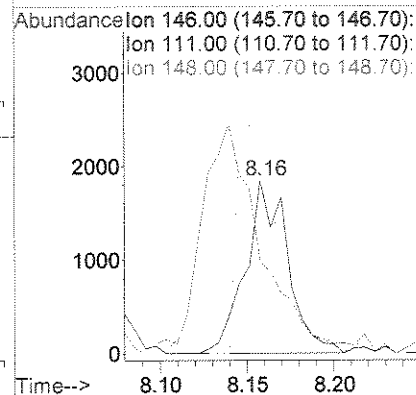
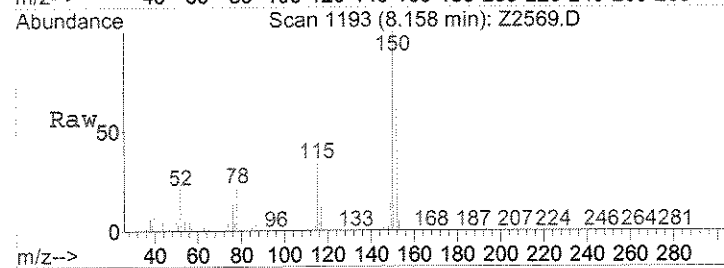
#88
 1,2,3-Trichloropropane
 Concen: 0.31 ppb
 RT: 7.20 min Scan# 1033
 Delta R.T. -0.01 min
 Lab File: Z2569.D
 Acq: 24 Jun 2008 9:36 pm

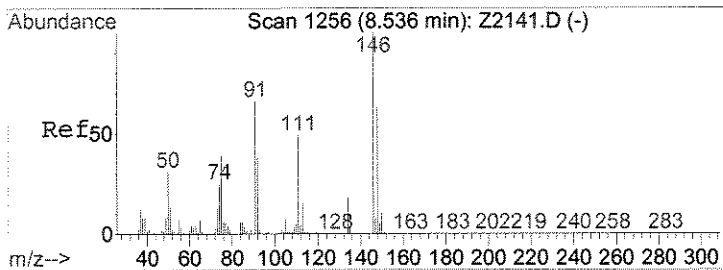
Tgt Ion:	110	Resp:	432
Ion Ratio	Lower	Upper	
110	100		
112	94.0	49.7	74.5#



#100
 1,4-Diclbz
 Concen: 0.29 ppb
 RT: 8.16 min Scan# 1193
 Delta R.T. -0.02 min
 Lab File: Z2569.D
 Acq: 24 Jun 2008 9:36 pm

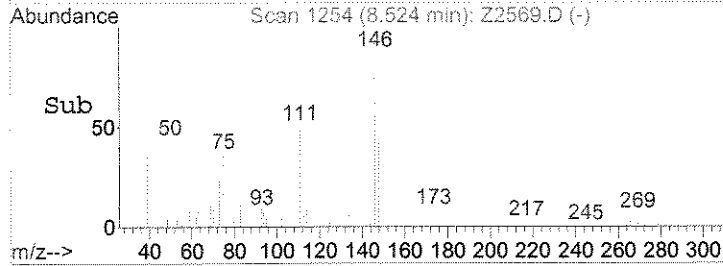
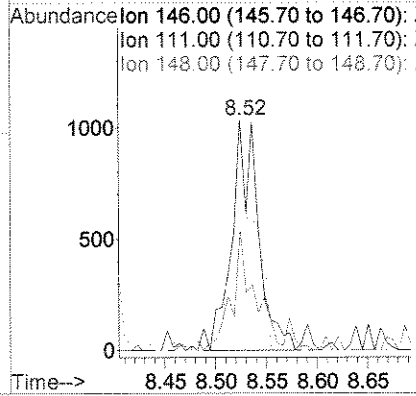
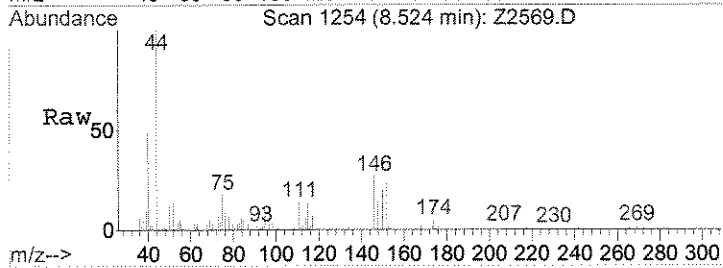
Tgt Ion:	146	Resp:	3108
Ion Ratio	Lower	Upper	
146	100		
111	46.2	37.1	55.7
148	87.0	49.4	74.2#





#103
 1,2-Dclbenz
 Concen: 0.21 ppb
 RT: 8.52 min Scan# 1254
 Delta R.T. -0.02 min
 Lab File: Z2569.D
 Acq: 24 Jun 2008 9:36 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	58.9	39.1	58.7#
148	50.5	50.2	75.2



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/20/08 09:35 Order #: 1111268 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
ANALYTICAL DILUTION: 1.00			
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	0.26 J	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/20/08 09:35 Order #: 1111268 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
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 %)	107	%
TOLUENE-D8	(70 - 130 %)	100	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	98	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2570.D Vial: 29
 Acq On : 24 Jun 2008 10:04 pm Operator: Herring
 Sample : 1111268 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 22:16 2008 Quant Results File: W060208.RES

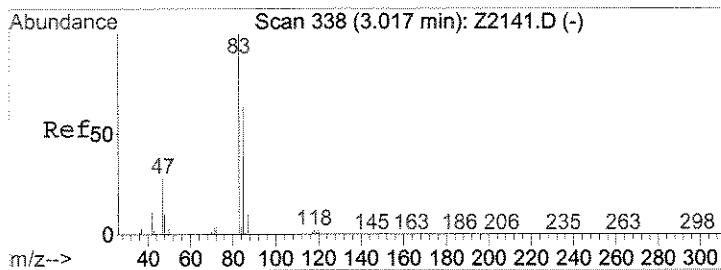
Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.12	168	709549	50.00	ppb	-0.01
42) 1,4 - Difluorobenzene	3.63	114	1303483	50.00	ppb	-0.01
63) d5 - Chlorobenzene	5.95	117	1141970	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	458182	50.00	ppb	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) surr4, Dibrflmethane	3.11	113	382060	49.06	ppb	-0.01
Spiked Amount 50.000			Recovery =	98.12%		
48) surr1,1,2-Dicethane	3.34	65	354430	43.46	ppb	0.00
Spiked Amount 50.000			Recovery =	86.92%		
69) surr3, Toluene-d8	4.74	98	1472497	49.95	ppb	-0.01
Spiked Amount 50.000			Recovery =	99.90%		
70) surr2, bfb	7.02	95	558263	53.42	ppb	-0.02
Spiked Amount 50.000			Recovery =	106.84%		

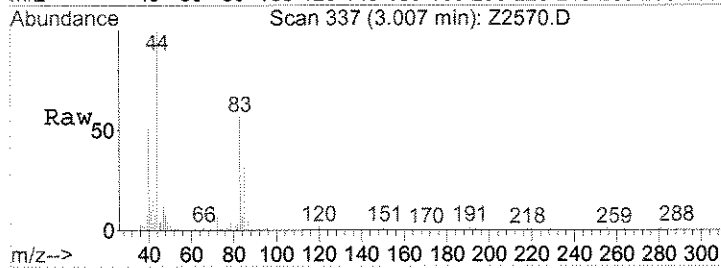
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	1.85	43	963	Below Cal		97
24) TBA	2.12	59	1067	2.65 ppb	#	59
39) Chloroform	3.01	83	3715	0.26 ppb		94
40) Tetrahydrofuran	3.01	42	1275	0.73 ppb	#	40
44) cyclohexane	3.12	56	17744	1.11 ppb	#	1
57) 1,4-Dioxane	4.07	88	352	11.83 ppb	#	8
61) 2-Chloroethylvinyl Ether	4.43	63	939	0.26 ppb	#	66
64) 4-Methyl-2-Pentanone	4.74	43	8407	1.30 ppb	#	1
84) Cyclohexanone	7.02	55	1763	3.91 ppb		99

*RJH
7/7*

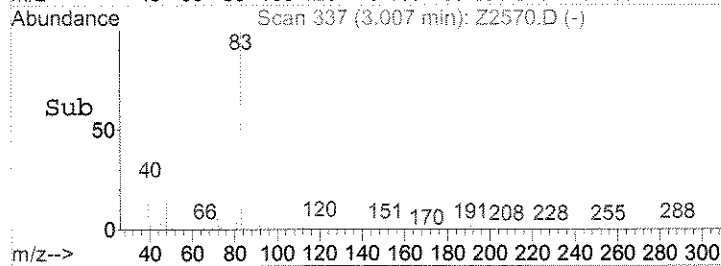
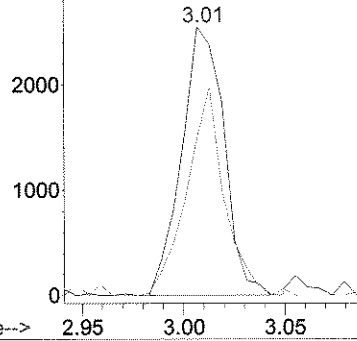


#39
 Chloroform
 Concen: 0.26 ppb
 RT: 3.01 min Scan# 337
 Delta R.T. -0.01 min
 Lab File: Z2570.D
 Acq: 24 Jun 2008 10:04 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.5	51.3	76.9



Abundance Ion 83.00 (82.70 to 83.70): Z25
 Ion 85.00 (84.70 to 85.70): Z25



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/20/08 09:35 Order #: 1111269 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
ANALYTICAL DILUTION: 1.00			
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	0.31 J	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/20/08 09:35 Order #: 1111269 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/08		
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	0.32 J	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 %)	107	%
TOLUENE-D8	(70 - 130 %)	103	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	99	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2571.D Vial: 30
 Acq On : 24 Jun 2008 10:32 pm Operator: Herring
 Sample : 1111269 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 7 17:57 2008 Quant Results File: W060208.RES

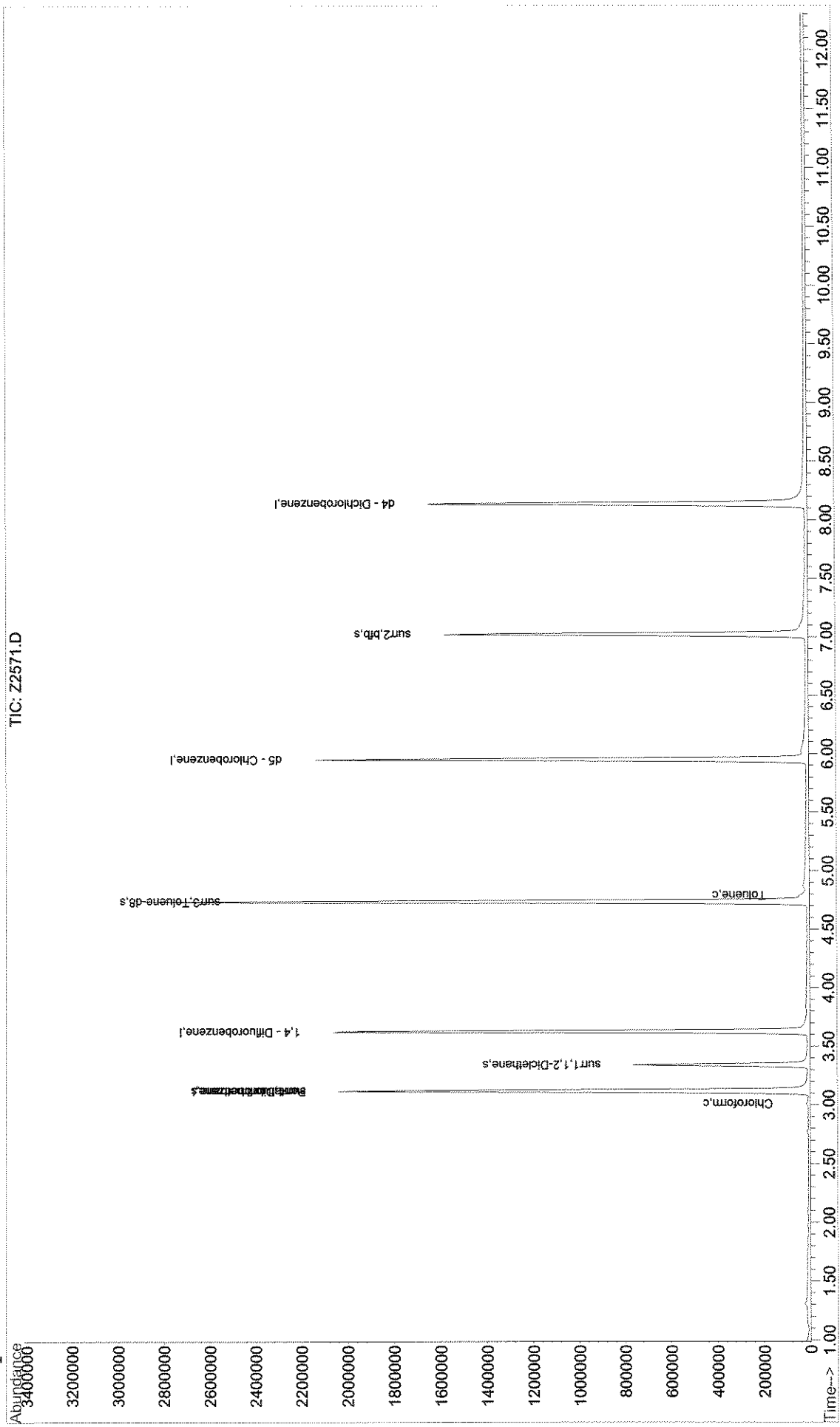
Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

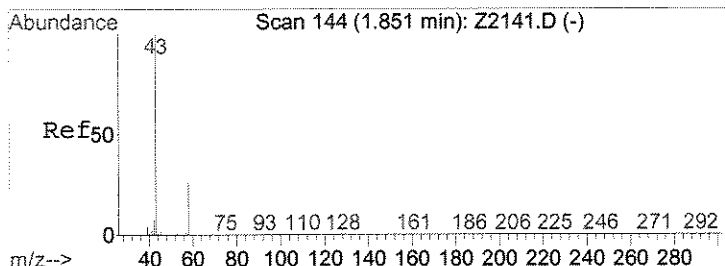
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	714414	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1307060	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.95	117	1144647	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	466004	50.00	ppb	-0.01
System Monitoring Compounds						
43) surr4, Dibrflmethane	3.11	113	387149	49.58	ppb	0.00
Spiked Amount				50.000		
				Recovery	=	99.16%
48) surr1, 1,2-Diclethane	3.34	65	375177	45.88	ppb	0.00
Spiked Amount				50.000		
				Recovery	=	91.76%
69) surr3, Toluene-d8	4.74	98	1527145	51.68	ppb	-0.01
Spiked Amount				50.000		
				Recovery	=	103.36%
70) surr2, bfb	7.02	95	562293	53.68	ppb	-0.02
Spiked Amount				50.000		
				Recovery	=	107.36%
Target Compounds						
16) Acetone	1.85	43	2354	Below Cal	Qvalue #	67
39) Chloroform	3.01	83	4509	0.31 ppb		94 J
65) Toluene	4.79	91	10104	0.32 ppb		97 J

(#) = qualifier out of range (m) = manual integration
 Z2571.D W060208.M Mon Jul 07 17:57:27 2008

Data File : J:\ACQDATA\MSVOA8\DATA\062408\Z2571.D Vial: 30
Acq On : 24 Jun 2008 10:32 pm Operator: Herring
Sample : 1111269 1.0 Inst : MS #8
Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 7 17:57 2008 Quant Results File: W060208.RES

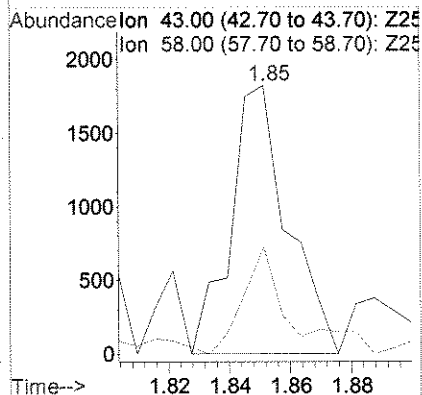
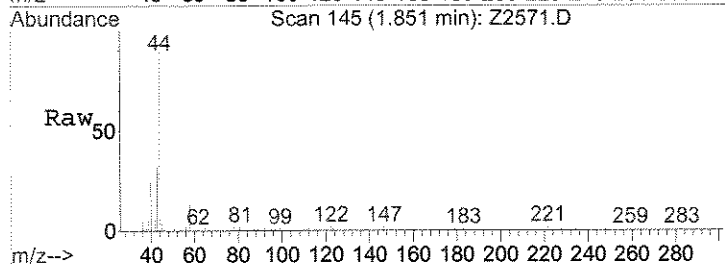
Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260vov
Last Update : Tue Jun 03 13:30:30 2008
Response via : Initial Calibration



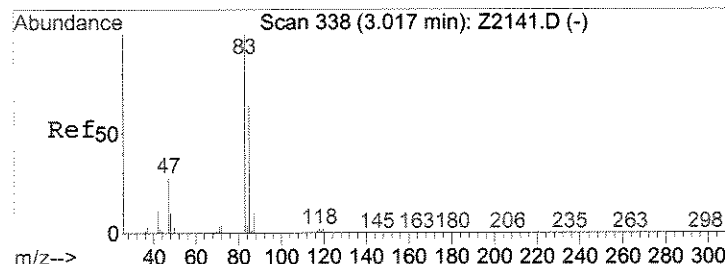
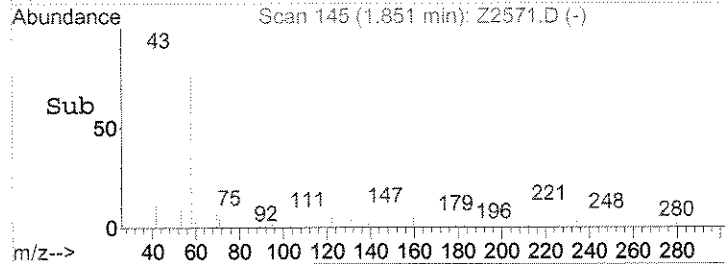


#16
 Acetone
 Concen: Below Cal
 RT: 1.85 min Scan# 145
 Delta R.T. 0.00 min
 Lab File: Z2571.D
 Acq: 24 Jun 2008 10:32 pm

Tgt Ion: 43 Resp: 2354
 Ion Ratio Lower Upper
 43 100
 58 39.8 19.0 28.6#

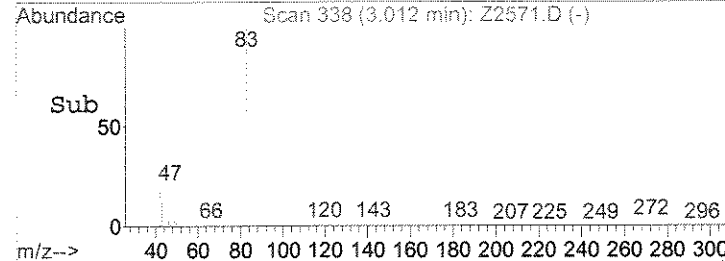
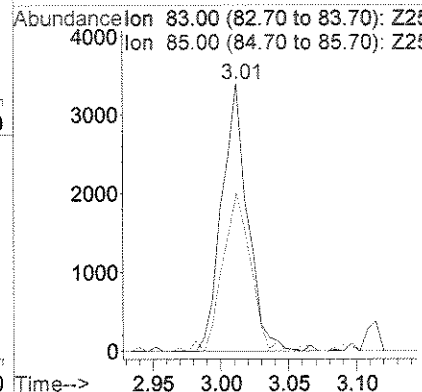
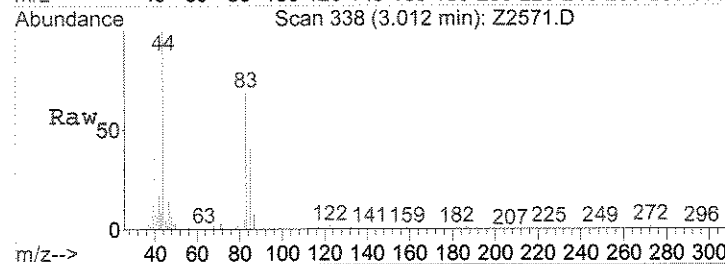


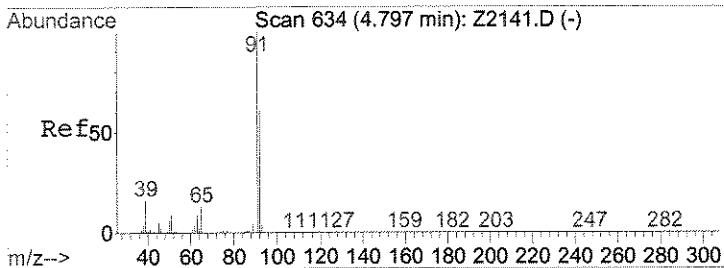
Less than



#39
 Chloroform
 Concen: 0.31 ppb
 RT: 3.01 min Scan# 338
 Delta R.T. -0.01 min
 Lab File: Z2571.D
 Acq: 24 Jun 2008 10:32 pm

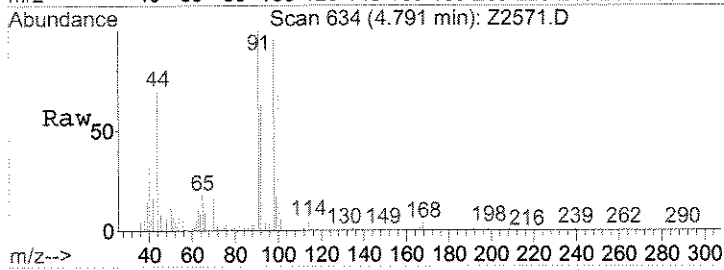
Tgt Ion: 83 Resp: 4509
 Ion Ratio Lower Upper
 83 100
 85 59.0 51.3 76.9



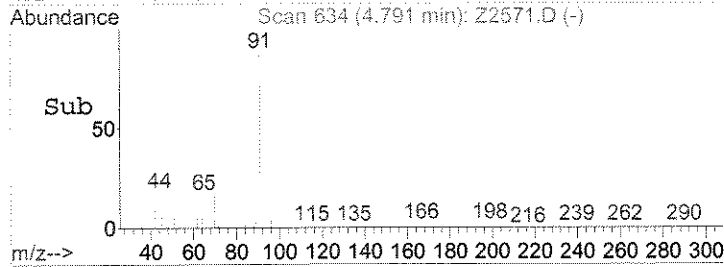
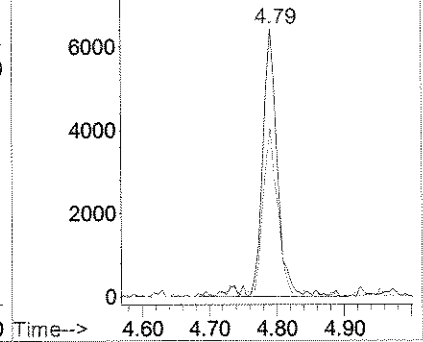


#65
 Toluene
 Concen: 0.32 ppb
 RT: 4.79 min Scan# 634
 Delta R.T. -0.01 min
 Lab File: Z2571.D
 Acq: 24 Jun 2008 10:32 pm

Tgt Ion: 91 Resp: 10104
 Ion Ratio Lower Upper
 91 100
 92 63.1 48.6 72.8



Abundance Ion 91.00 (90.70 to 91.70): Z25
 Ion 92.00 (91.70 to 92.70): Z25



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-72B

Date Sampled : 06/23/08 13:40 Order #: 1111763 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/08			
ANALYTICAL DILUTION: 1.00			
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	1.5	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	29	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
HEXACHLOROBTADIENE	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-72B

Date Sampled : 06/23/08 13:40 Order #: 1111763 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/08		
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	0.72 J	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	0.56 J	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 %)	106	%
TOLUENE-D8	(70 - 130 %)	97	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2590.D
 Acq On : 25 Jun 2008 5:26 pm
 Sample : 1111763 1.0
 Misc : ENSR R-44538 8260B.DODO
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 17:38 2008

Vial: 19
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	729342	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1331199	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.96	117	1169556	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.14	152	477252	50.00	ppb	-0.01

System Monitoring Compounds

43) surr4,Dibrflmethane	3.11	113	384991	48.41	ppb	0.00
Spiked Amount	50.000		Recovery	=	96.82%	
48) surr1,1,2-Dicethane	3.34	65	361953	43.46	ppb	0.00
Spiked Amount	50.000		Recovery	=	86.92%	
69) surr3,Toluene-d8	4.74	98	1464482	48.51	ppb	0.00
Spiked Amount	50.000		Recovery	=	97.02%	
70) surr2,bfb	7.03	95	565353	52.83	ppb	-0.01
Spiked Amount	50.000		Recovery	=	105.66%	

Target Compounds

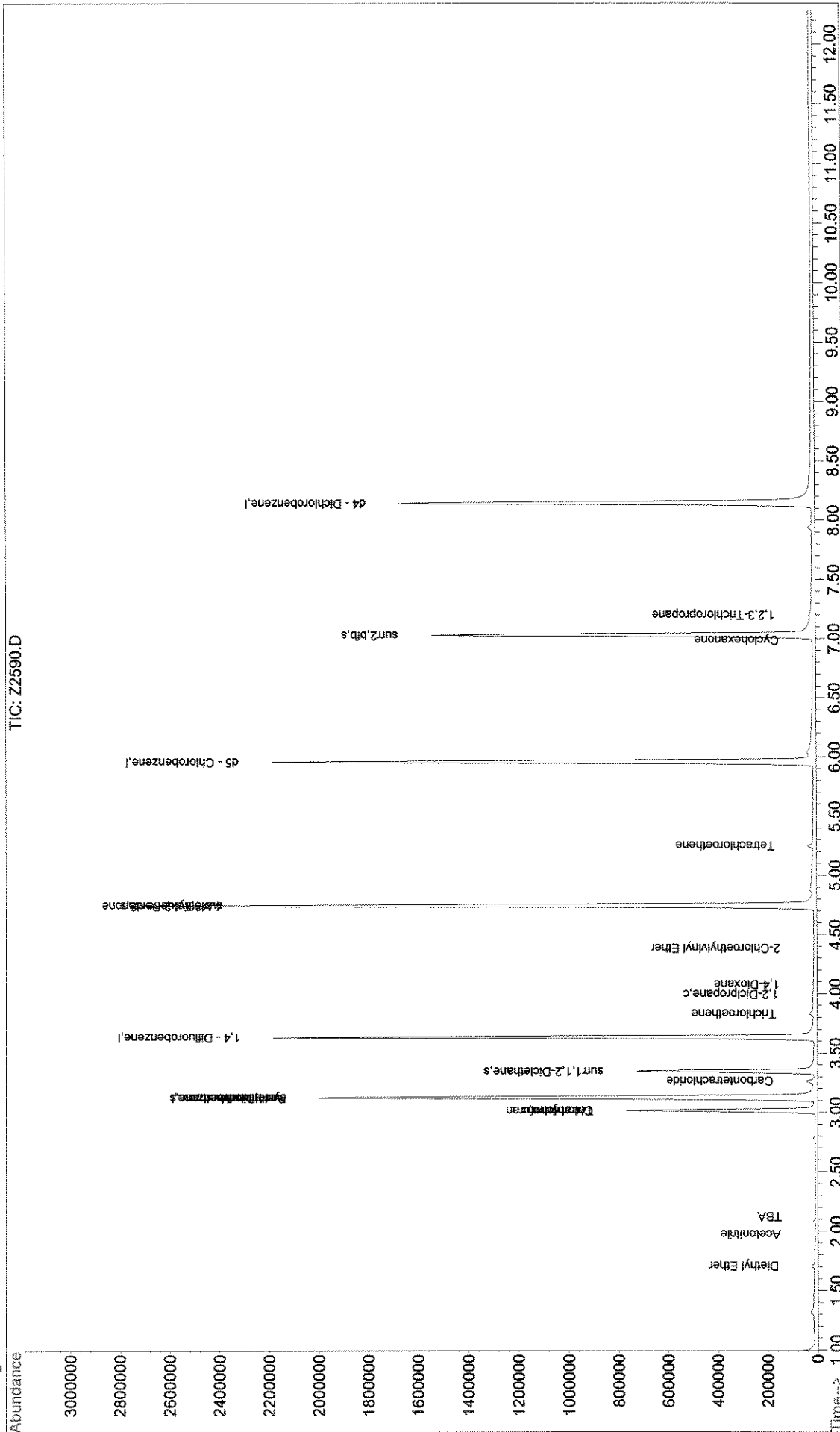
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Diethyl Ether	1.70	59	3103	0.50	ppb	87
16) Acetone	1.86	43	1391	Below Cal		96
20) Acetonitrile	1.98	40	1503	3.46	ppb #	1
24) TBA	2.13	59	1053	2.54	ppb #	59
39) Chloroform	3.01	83	428069	29.18	ppb	97
40) Tetrahydrofuran	3.01	42	4050	2.26	ppb #	59 NT
44) cyclohexane	3.13	56	17112	1.05	ppb #	1
45) Carbontetrachloride	3.26	117	12888	1.49	ppb	84
53) Trichloroethene	3.83	95	4213	0.56	ppb	91 J
55) 1,2-Dicpropane	3.99	63	2207	0.25	ppb #	41
57) 1,4-Dioxane	4.07	88	780	25.67	ppb #	26
61) 2-Chloroethylvinyl Ether	4.39	63	947	0.26	ppb #	50
64) 4 Methyl-2-Pentanone	4.74	43	10205	1.55	ppb #	1
71) Tetrachloroethene	5.24	166	4731	0.72	ppb #	73 J
84) Cyclohexanone	6.98	55	995	2.16	ppb #	8
88) 1,2,3-Trichloropropane	7.20	110	544	0.33	ppb	95

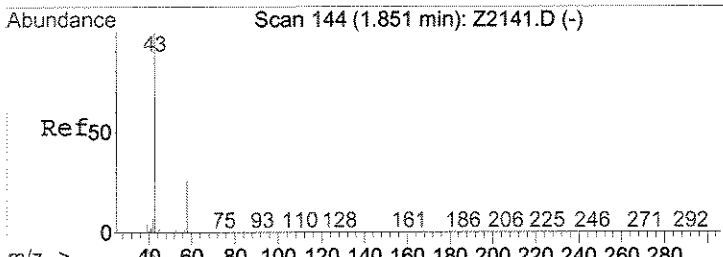
RH
7/8

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

Data File : J:\ACQDATA\MSVOA8\DATA\062508\Z2590.D Vial: 19
 Acq On : 25 Jun 2008 5:26 pm Operator: Herring
 Sample : 1111763 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 17:38 2008 Quant Results File: W060208.RES

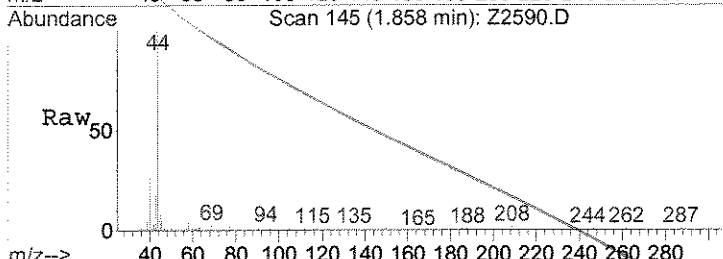
Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260v0a
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration



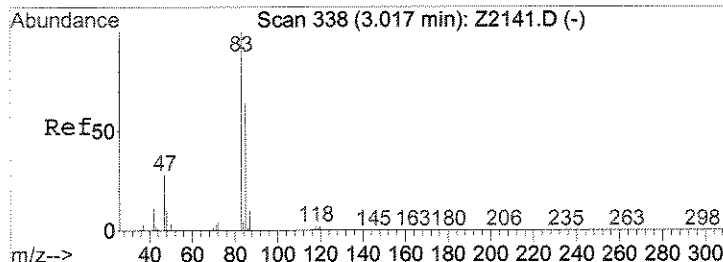
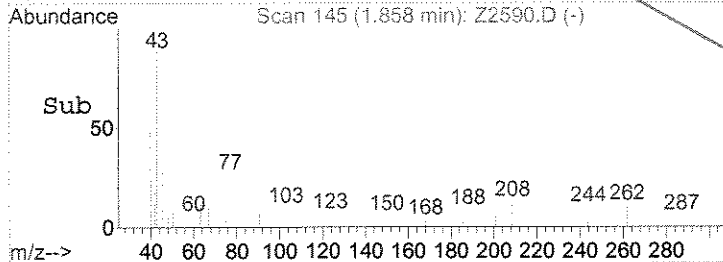
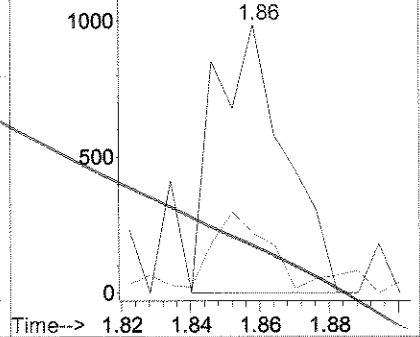


#16
 Acetone
 Concen: Below Cal
 RT: 1.86 min Scan# 145
 Delta R.T. 0.01 min
 Lab File: Z2590.D
 Acq: 25 Jun 2008 5:26 pm

Tgt Ion	Resp	Lower	Upper
43	1391		
58	22.0	19.0	28.6

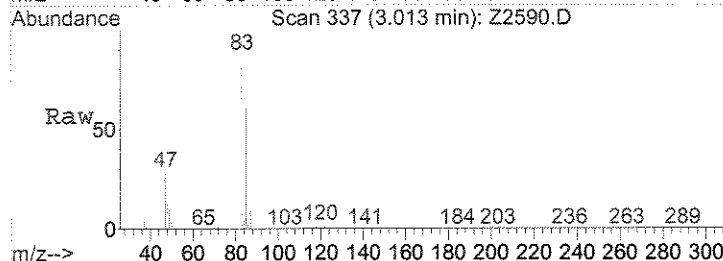


Abundance Ion 43.00 (42.70 to 43.70): Z25
 Ion 58.00 (57.70 to 58.70): Z25

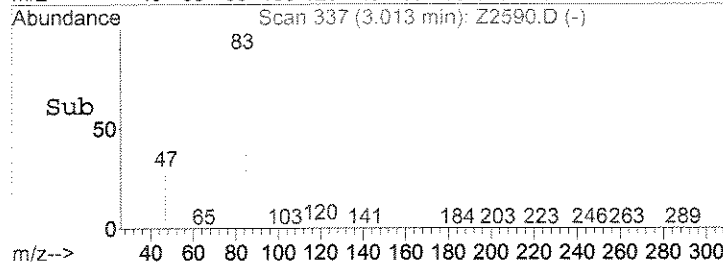
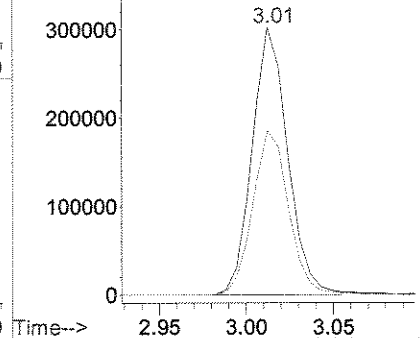


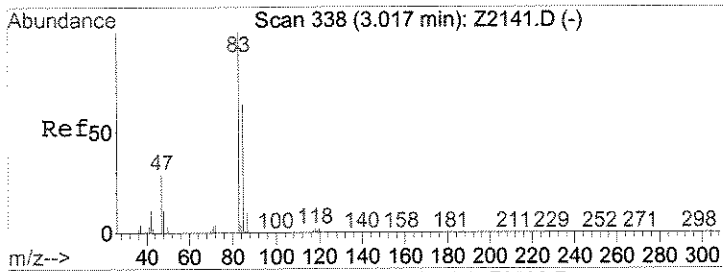
#39
 Chloroform
 Concen: 29.18 ppb
 RT: 3.01 min Scan# 337
 Delta R.T. -0.00 min
 Lab File: Z2590.D
 Acq: 25 Jun 2008 5:26 pm

Tgt Ion	Resp	Lower	Upper
83	428069		
85	61.5	51.3	76.9



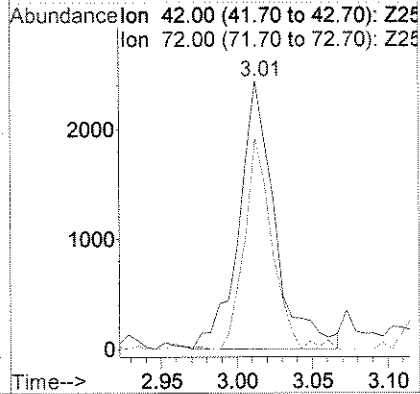
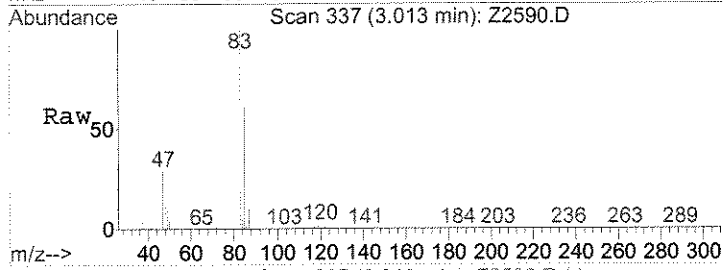
Abundance Ion 83.00 (82.70 to 83.70): Z25
 Ion 85.00 (84.70 to 85.70): Z25



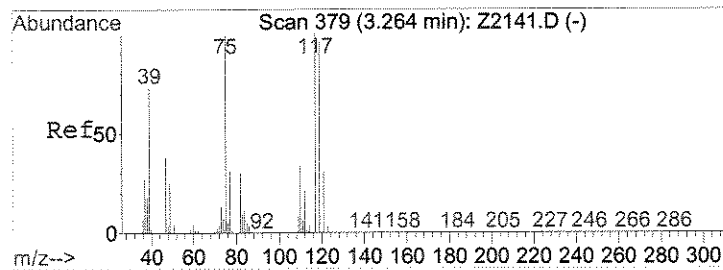
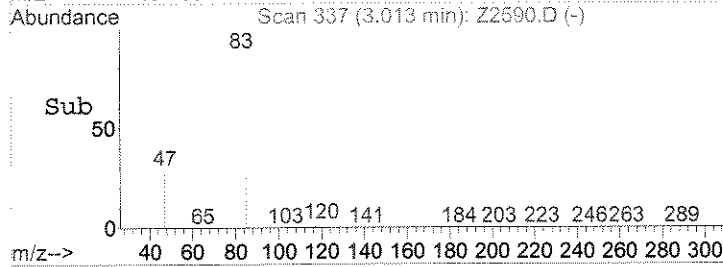


#40
 Tetrahydrofuran
 Concen: 2.26 ppb
 RT: 3.01 min Scan# 337
 Delta R.T. -0.00 min
 Lab File: Z2590.D
 Acq: 25 Jun 2008 5:26 pm

Tgt Ion	Resp	Lower	Upper
42	4050		
42	100		
72	59.2	24.6	45.8#

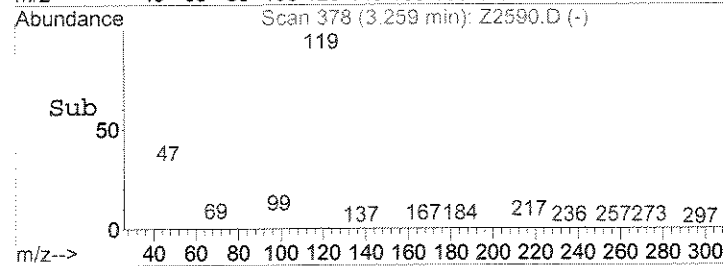
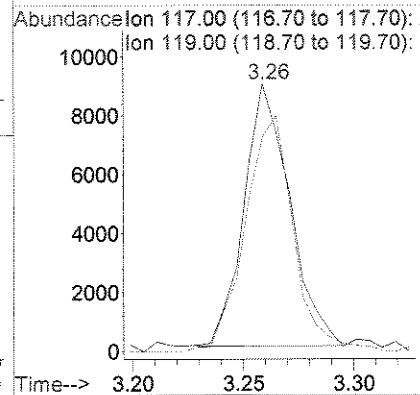
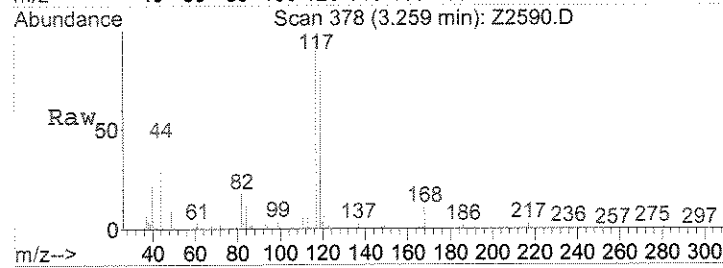


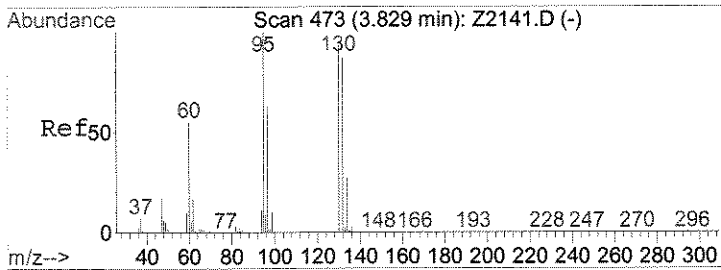
NT



#45
 Carbontetrachloride
 Concen: 1.49 ppb
 RT: 3.26 min Scan# 378
 Delta R.T. -0.00 min
 Lab File: Z2590.D
 Acq: 25 Jun 2008 5:26 pm

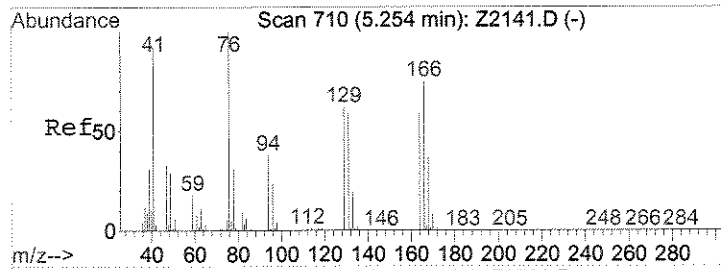
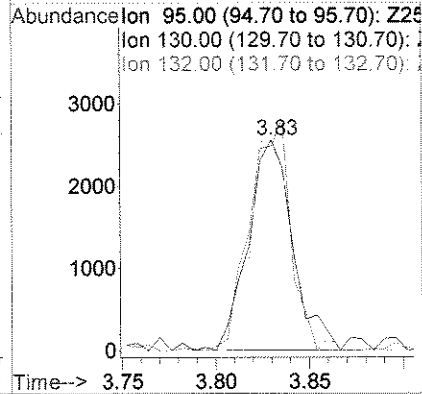
Tgt Ion	Resp	Lower	Upper
117	12888		
117	100		
119	80.0	76.7	115.1





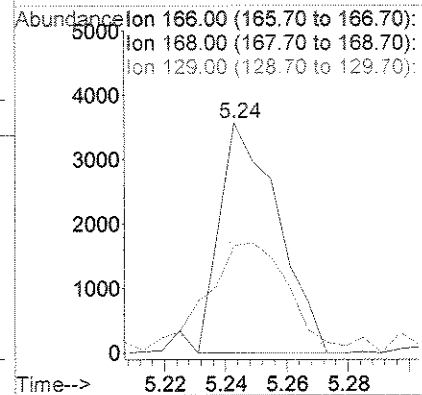
#53
 Trichloroethene
 Concen: 0.56 ppb
 RT: 3.83 min Scan# 473
 Delta R.T. -0.00 min
 Lab File: Z2590.D
 Acq: 25 Jun 2008 5:26 pm

Tgt Ion	Resp	Lower	Upper
95	4213		
130	97.0	74.2	111.4
132	99.3	69.4	104.2



#71
 Tetrachloroethene
 Concen: 0.72 ppb
 RT: 5.24 min Scan# 708
 Delta R.T. -0.01 min
 Lab File: Z2590.D
 Acq: 25 Jun 2008 5:26 pm

Tgt Ion	Resp	Lower	Upper
166	4731		
168	45.1	39.1	58.7
129	47.7	66.1	99.1#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-94BX

Date Sampled : 06/23/08 12:00 Order #: 1111764 Sample Matrix: WATER
Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/08		
ANALYTICAL DILUTION:	1.00		
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	0.39 J	UG/L
BROMOFORM	1.0	1.7	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	2.1	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	50	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	0.25 J	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	0.61 J	UG/L
1,4-DICHLOROBENZENE	2.0	0.35 J	UG/L
1,3-DICHLOROBENZENE	2.0	0.24 J	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-94BX

Date Sampled : 06/23/08 12:00 Order #: 1111764 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/08		
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	0.83 J	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	0.89 J	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	0.57 J	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 %)	105	%
TOLUENE-D8	(70 - 130 %)	99	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2591.D
 Acq On : 25 Jun 2008 5:54 pm
 Sample : 1111764 1.0
 Misc : ENSR R-44538 8260B.DODO
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 18:06 2008

Vial: 20
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	737130	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1356837	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.96	117	1163900	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.14	152	483371	50.00	ppb	-0.01

System Monitoring Compounds

43) surr4, Dibrflmethane	3.11	113	385237	47.53	ppb	0.00
Spiked Amount				50.000		
				Recovery	=	95.06%
48) surr1, 1,2-Dicethane	3.34	65	364602	42.95	ppb	0.00
Spiked Amount				50.000		
				Recovery	=	85.90%
69) surr3, Toluene-d8	4.74	98	1480018	49.26	ppb	0.00
Spiked Amount				50.000		
				Recovery	=	98.52%
70) surr2, bfb	7.03	95	560558	52.63	ppb	-0.01
Spiked Amount				50.000		
				Recovery	=	105.26%

Target Compounds

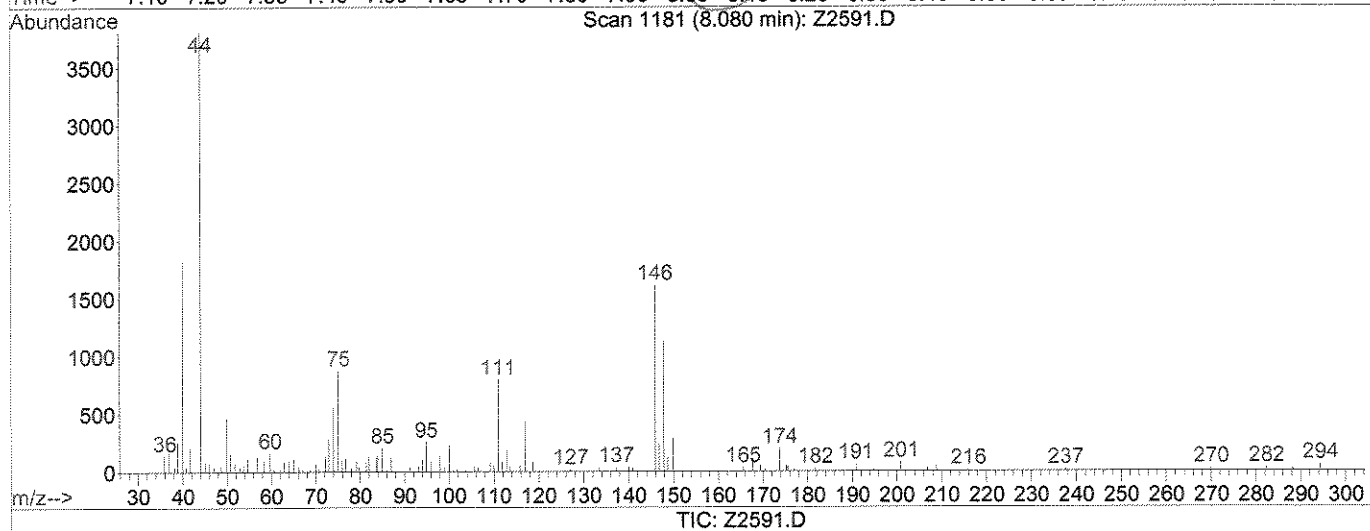
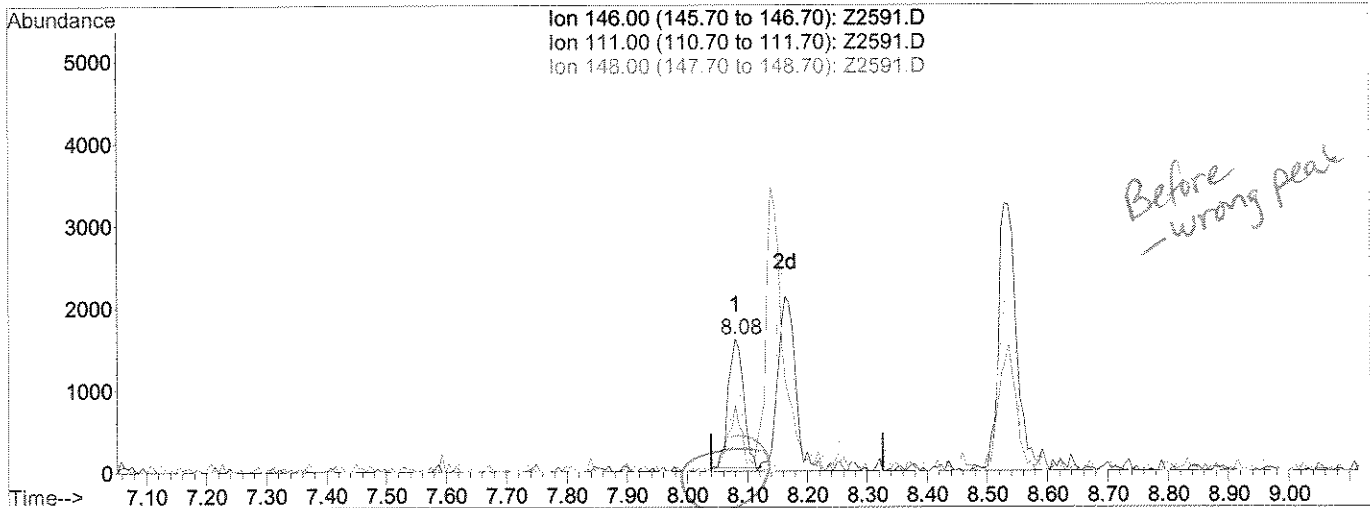
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Diethyl Ether	1.70	59	4920	0.79	ppb	87 NT
16) Acetone	1.86	43	2116	Below Cal		91
19) Carbon Disulfide	1.97	76	5617	0.21	ppb	99 J
23) Methylene Chloride	2.09	84	7531	0.83	ppb #	77 J
24) TBA	2.13	59	1172	2.80	ppb #	59
36) Propionitrile	2.86	54	220	0.31	ppb #	84
39) Chloroform	3.01	83	748777	50.51	ppb	99
40) Tetrahydrofuran	3.01	42	3823	2.11	ppb #	1
44) cyclohexane	3.13	56	17623	1.06	ppb #	1
45) Carbontetrachloride	3.26	117	18928	2.14	ppb	98
53) Trichloroethene	3.82	95	4395	0.57	ppb #	70 J
57) 1,4-Dioxane	4.12	88	563	18.18	ppb #	26
59) Bromodichloromethane	4.18	83	3739	0.39	ppb	98 J
61) 2-Chloroethylvinyl Ether	4.40	63	751	0.20	ppb #	50
71) Tetrachloroethene	5.25	166	5797	0.89	ppb #	84 J
74) Dibromochloromethane	5.45	129	1423	0.25	ppb	97 J
82) Bromoform	6.73	173	4045	1.66	ppb #	27
84) Cyclohexanone	6.96	55	1038	2.26	ppb #	1
99) 1,3-Dclbenz	8.08	146	2943	0.24	ppb	91 J
100) 1,4-Dclbenz	8.08	146	4334	0.22	ppb	92 J
103) 1,2-Dclbenz	8.53	146	6558	0.61	ppb	98 J

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

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2591.D Vial: 20
 Acq On : 25 Jun 2008 5:54 pm Operator: Herring
 Sample : 1111764 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 8 12:40 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260vov
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(100) 1,4-Dclbenz

8.08min 0.22ppb

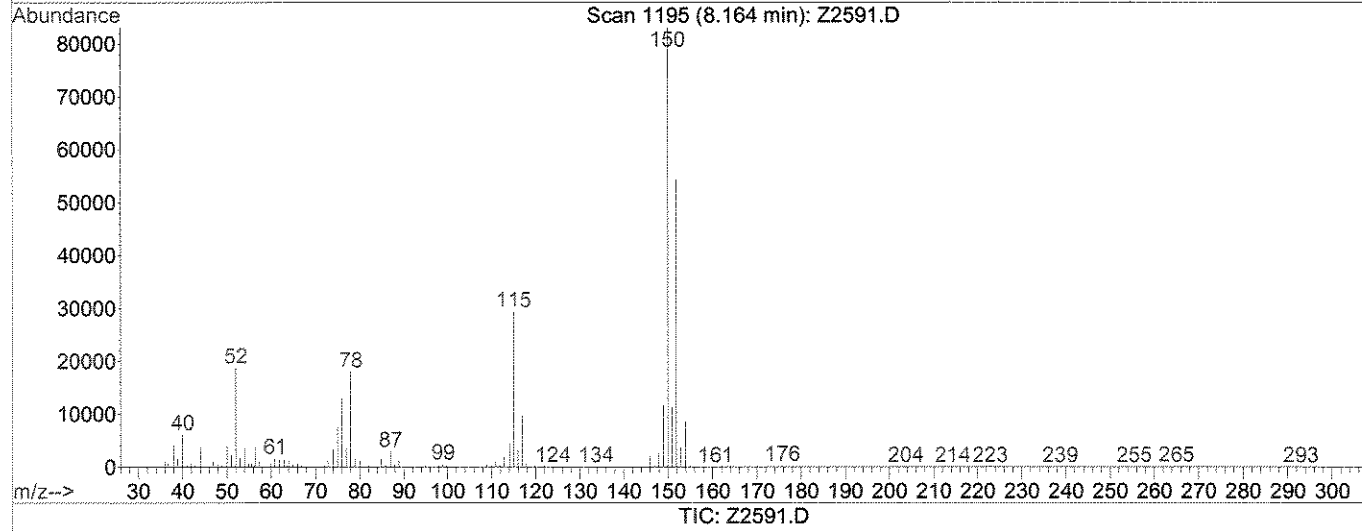
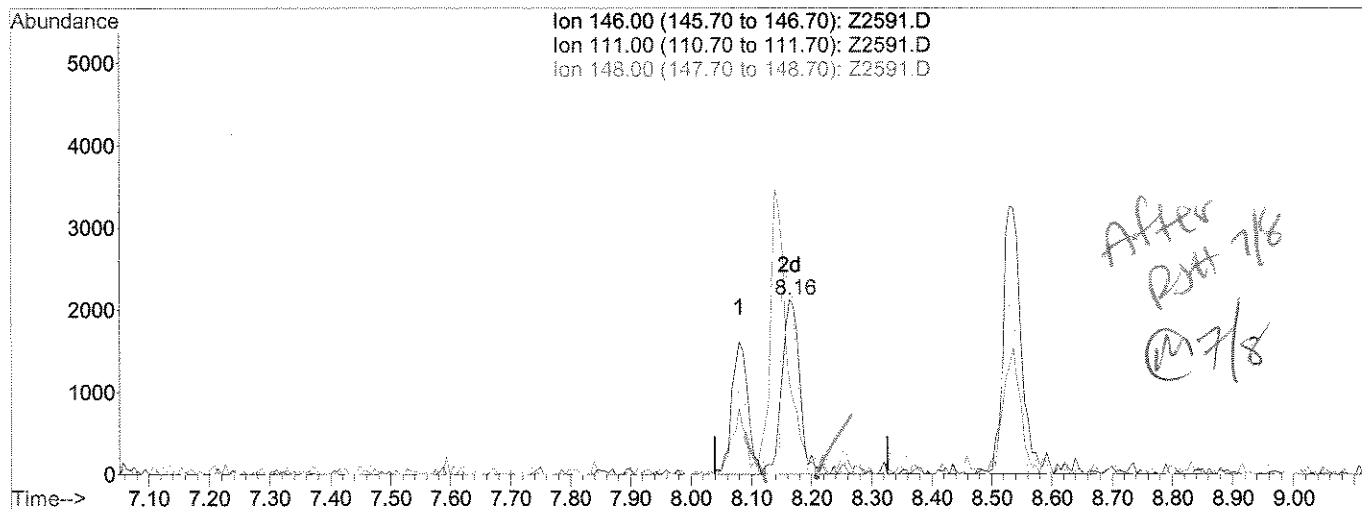
response 2769

Ion	Exp%	Act%
146.00	100	100
111.00	46.40	49.57
148.00	61.80	69.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2591.D Vial: 20
Acq On : 25 Jun 2008 5:54 pm Operator: Herring
Sample : 1111764 1.0 Inst : MS #8
Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 12:40 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa
Last Update : Tue Jun 03 13:30:30 2008
Response via : Multiple Level Calibration



(100) 1,4-DcIbenz

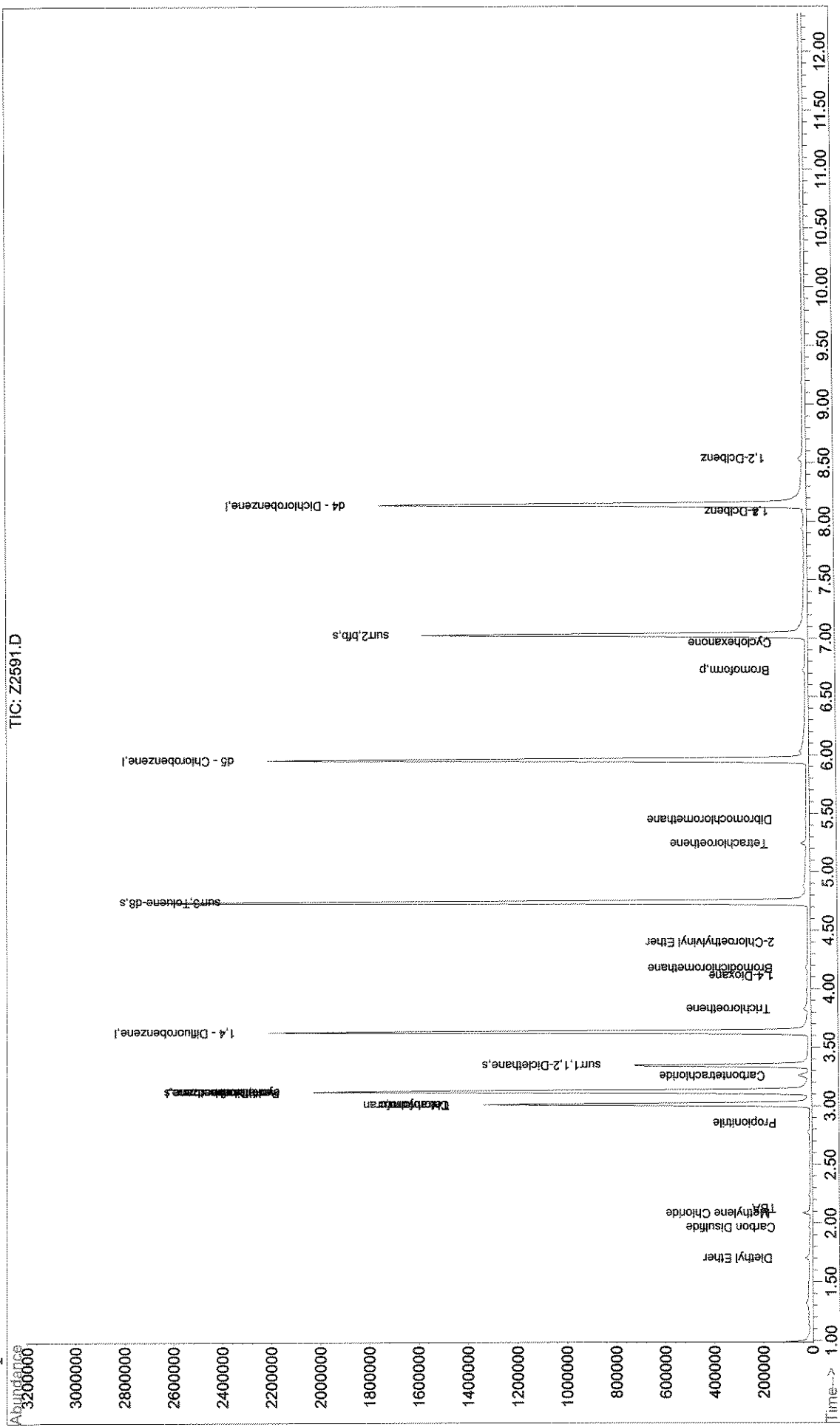
8.16min 0.35ppb m

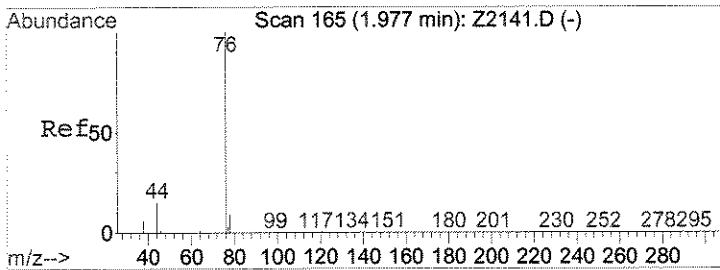
response 4334

Ion	Exp%	Act%
146.00	100	100
111.00	46.40	50.87
148.00	61.80	121.37#
0.00	0.00	0.00

Data File : J:\ACQDATA\MSVOA8\DATA\062508\Z2591.D Vial: 20
 Acq On : 25 Jun 2008 5:54 pm Operator: Herring
 Sample : 1111764 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 18:06 2008 Quant Results File: W060208.RES

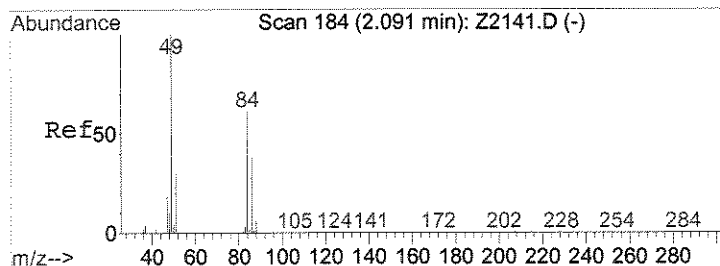
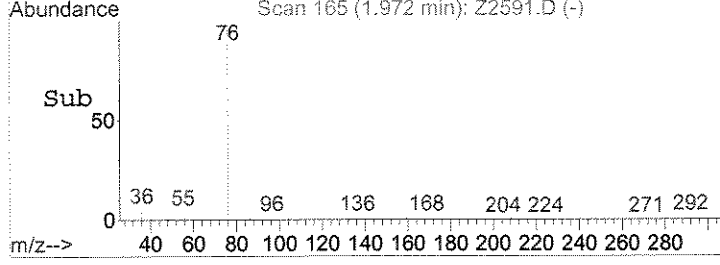
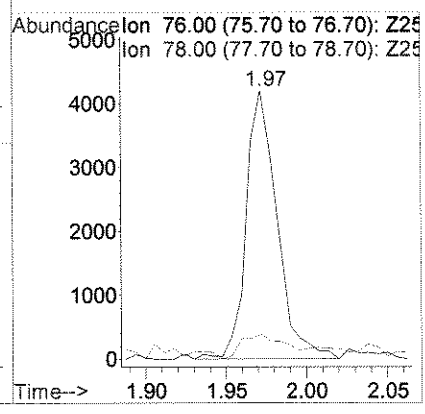
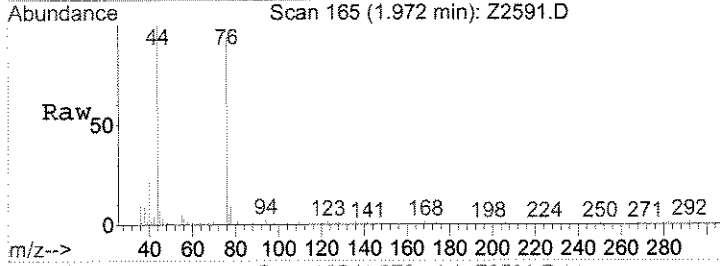
Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voca
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration





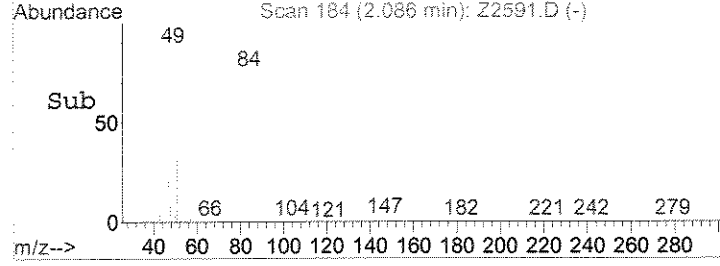
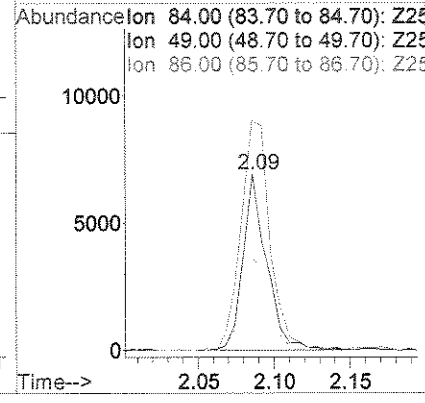
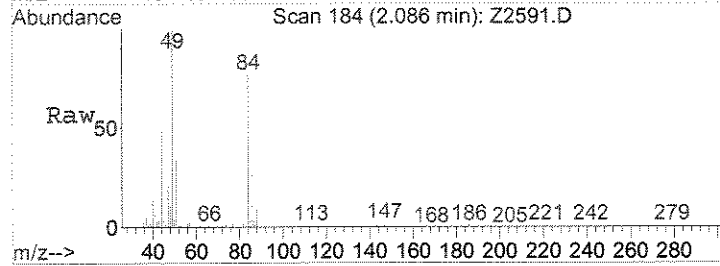
#19
 Carbon Disulfide
 Concen: 0.21 ppb
 RT: 1.97 min Scan# 165
 Delta R.T. 0.00 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

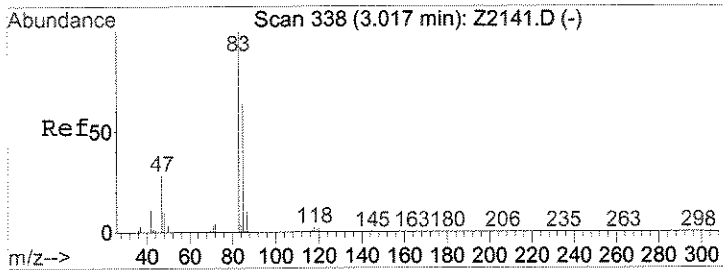
Tgt Ion	Resp	Lower	Upper
76	5617		
76	100		
78	9.3	6.2	11.6



#23
 Methylene Chloride
 Concen: 0.83 ppb
 RT: 2.09 min Scan# 184
 Delta R.T. 0.00 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

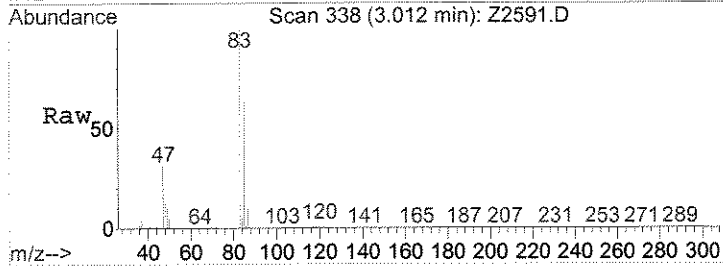
Tgt Ion	Resp	Lower	Upper
84	7531		
84	100		
49	130.5	132.2	198.4#
86	52.2	50.5	75.7



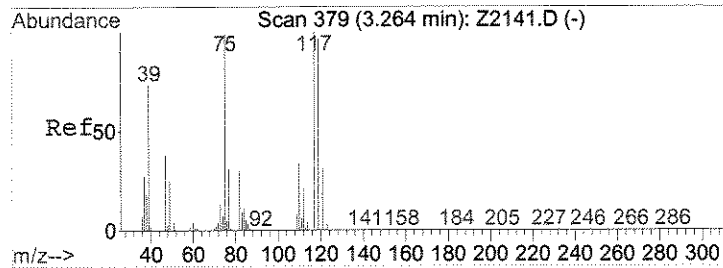
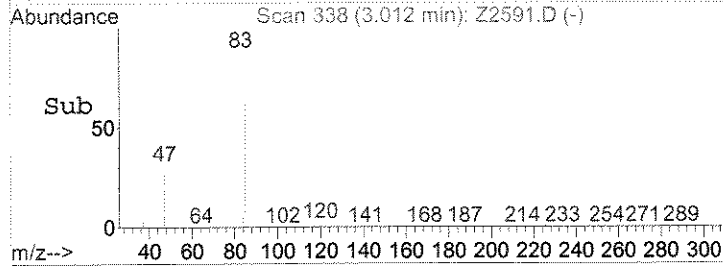
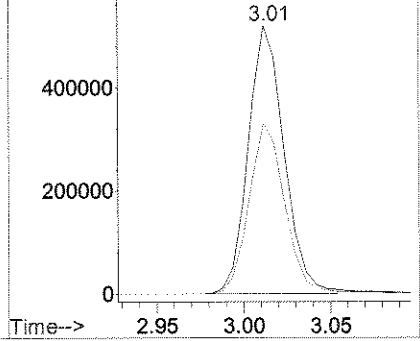


#39
 Chloroform
 Concen: 50.51 ppb
 RT: 3.01 min Scan# 338
 Delta R.T. -0.01 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

Tgt Ion	Resp	Lower	Upper
83	748777		
85	63.5	51.3	76.9

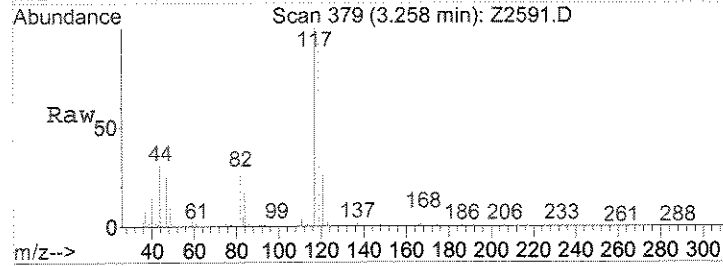


Abundance Ion 83.00 (82.70 to 83.70): Z2591.D
 Ion 85.00 (84.70 to 85.70): Z2591.D

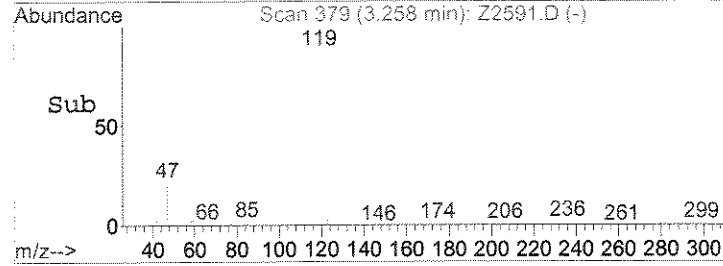
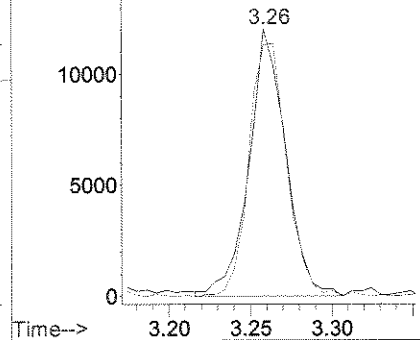


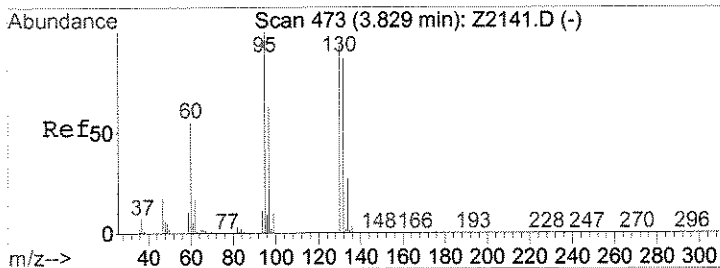
#45
 Carbontetrachloride
 Concen: 2.14 ppb
 RT: 3.26 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

Tgt Ion	Resp	Lower	Upper
117	18928		
119	93.9	76.7	115.1



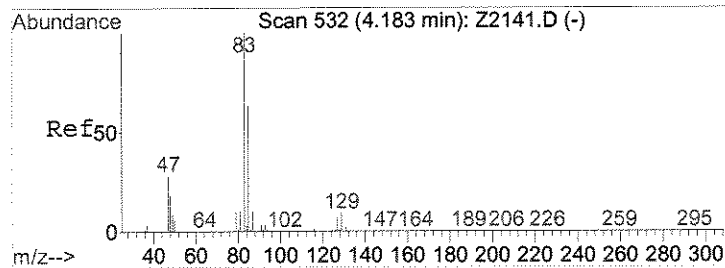
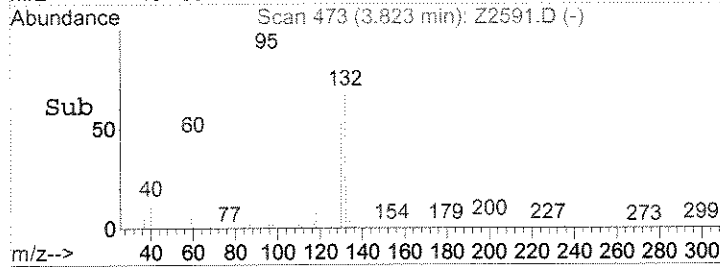
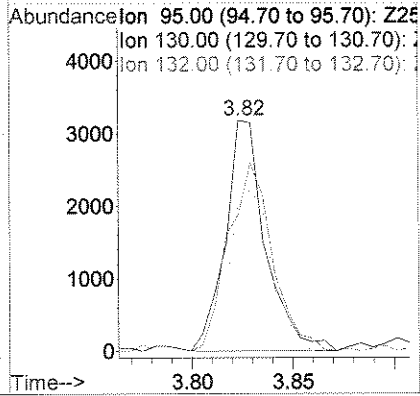
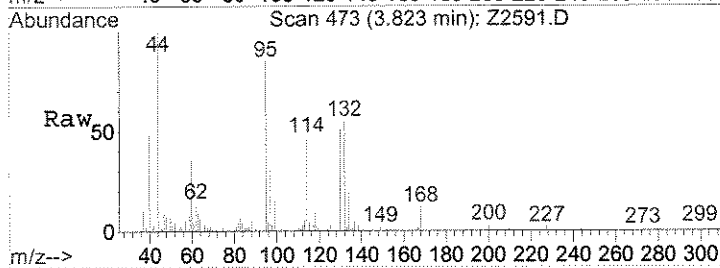
Abundance Ion 117.00 (116.70 to 117.70): Z2591.D
 Ion 119.00 (118.70 to 119.70): Z2591.D





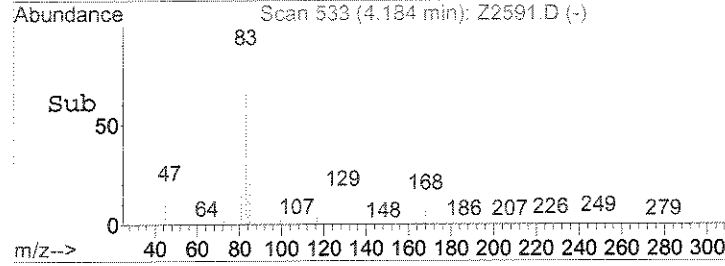
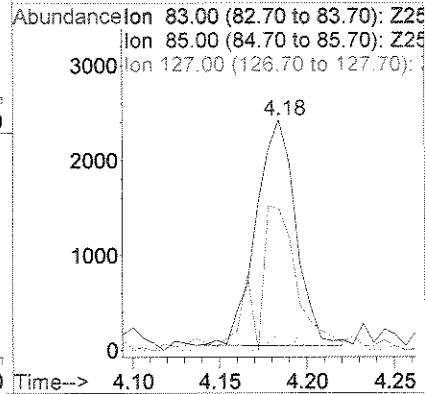
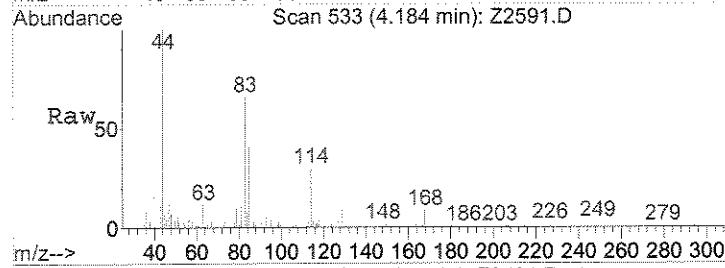
#53
 Trichloroethene
 Concen: 0.57 ppb
 RT: 3.82 min Scan# 473
 Delta R.T. -0.01 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

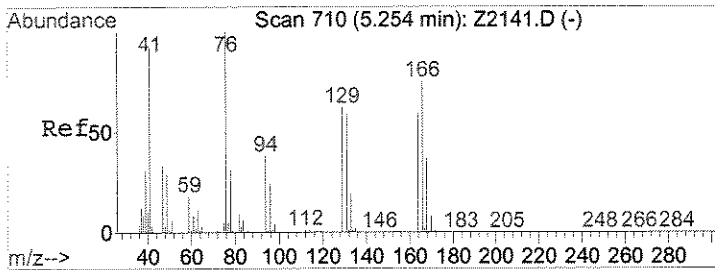
Tgt Ion	Resp	Lower	Upper
95	4395		
130	59.2	74.2	111.4#
132	64.3	69.4	104.2#



#59
 Bromodichloromethane
 Concen: 0.39 ppb
 RT: 4.18 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

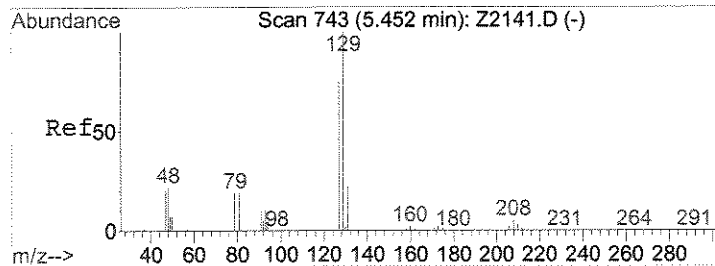
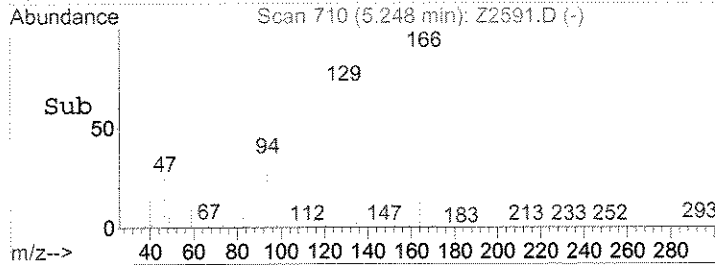
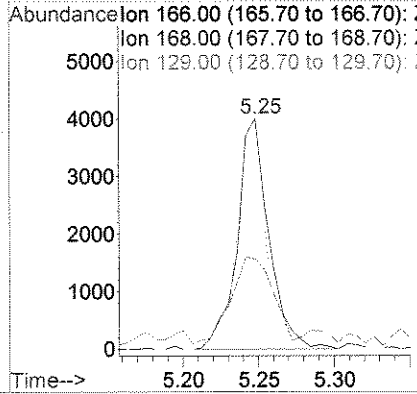
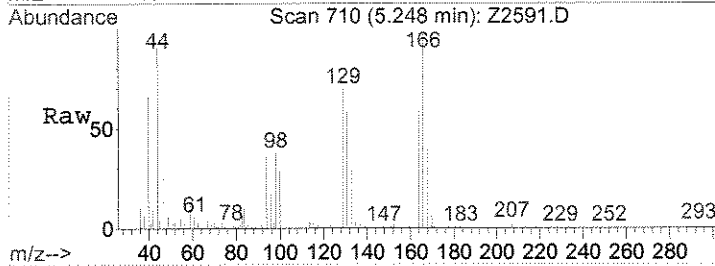
Tgt Ion	Resp	Lower	Upper
83	3739		
85	61.3	50.4	75.6
127	7.5	5.8	8.6





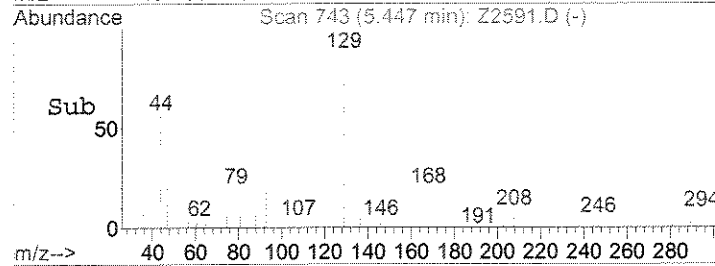
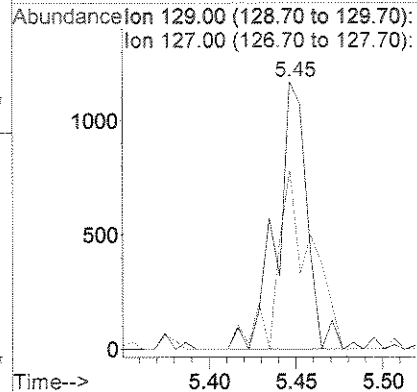
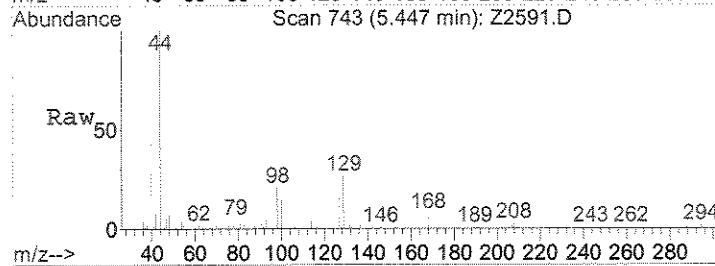
#71
 Tetrachloroethene
 Concen: 0.89 ppb
 RT: 5.25 min Scan# 710
 Delta R.T. -0.01 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

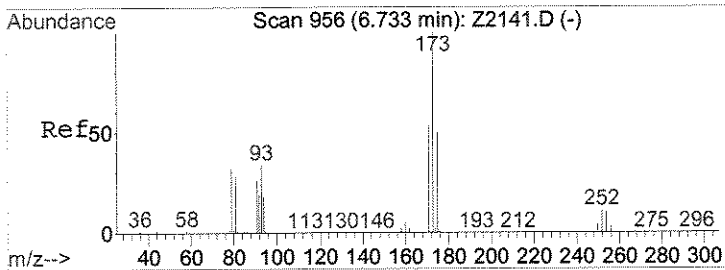
Tgt Ion	Resp	Lower	Upper
166	5797		
166	100		
168	38.9	39.1	58.7#
129	68.1	66.1	99.1



#74
 Dibromochloromethane
 Concen: 0.25 ppb
 RT: 5.45 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

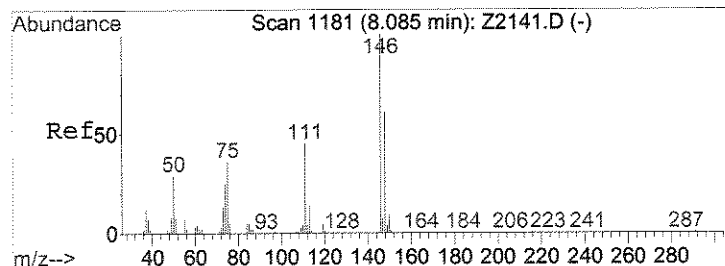
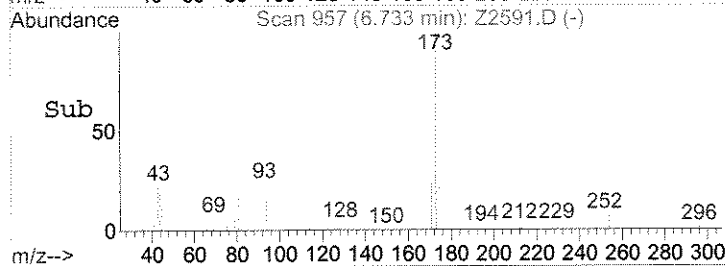
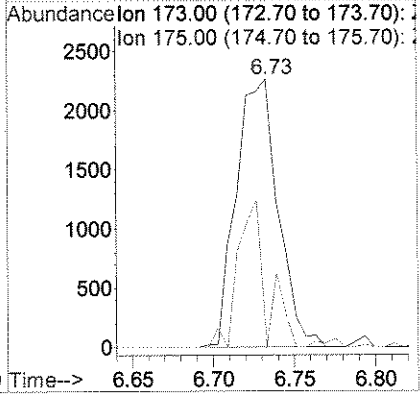
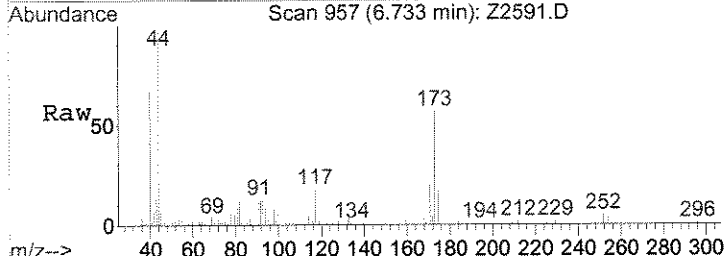
Tgt Ion	Resp	Lower	Upper
129	1423		
129	100		
127	72.3	60.0	90.0





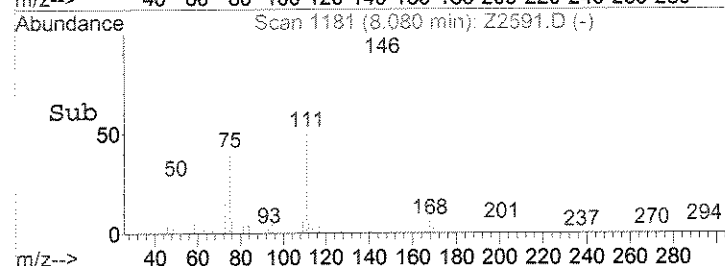
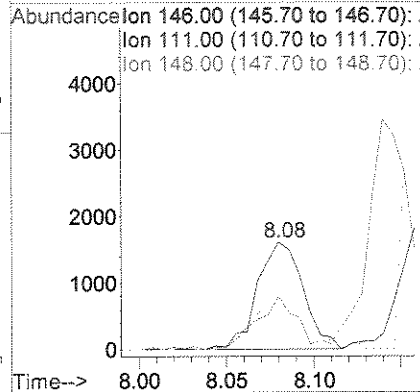
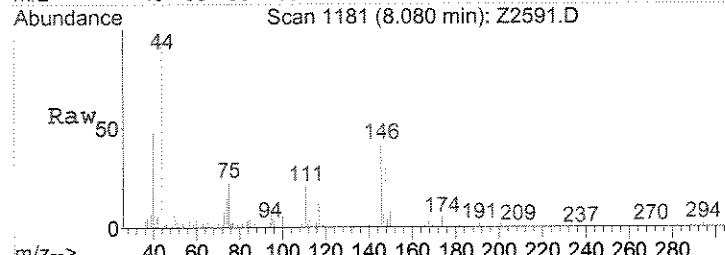
#82
 Bromoform
 Concen: 1.66 ppb
 RT: 6.73 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

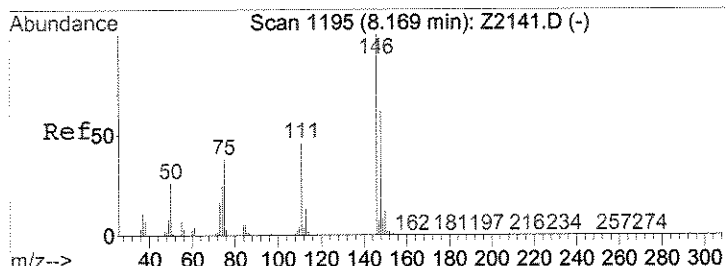
Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	38.3	63.9#



#99
 1,3-Diclbz
 Concen: 0.24 ppb
 RT: 8.08 min Scan# 1181
 Delta R.T. -0.01 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

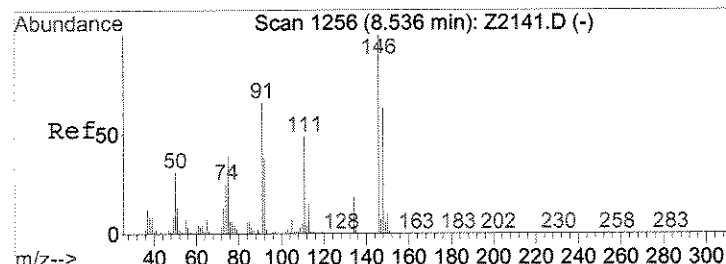
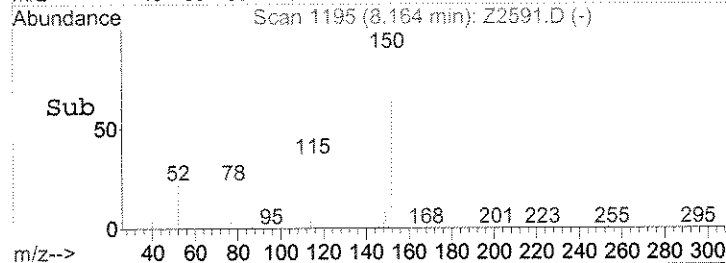
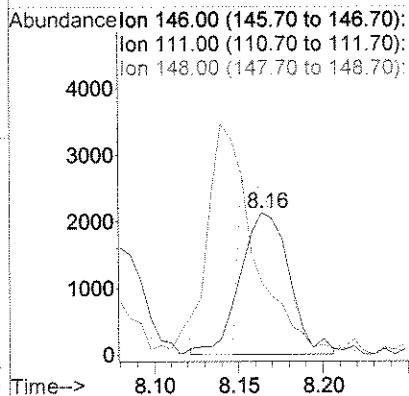
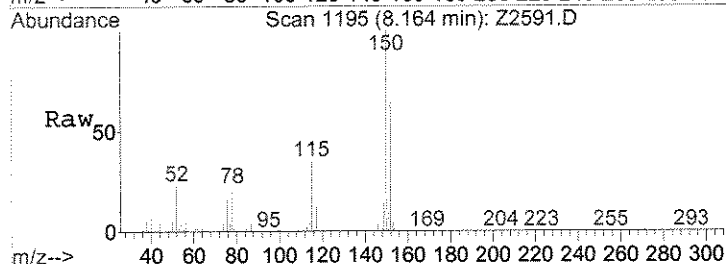
Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.6	36.3	54.5
148	69.9	49.0	73.4





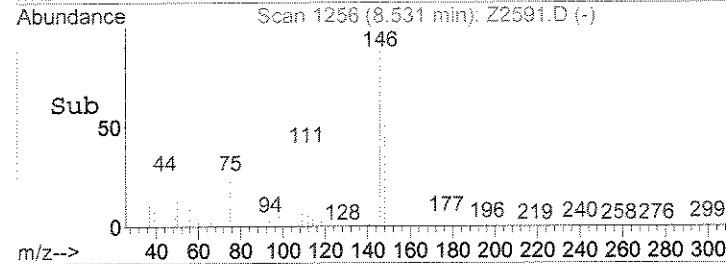
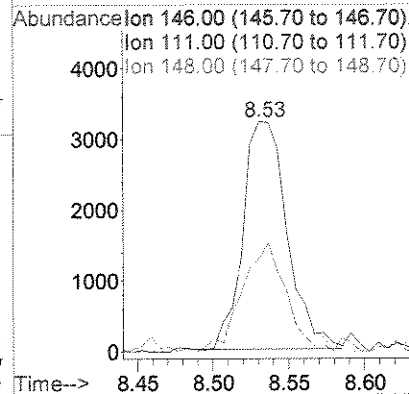
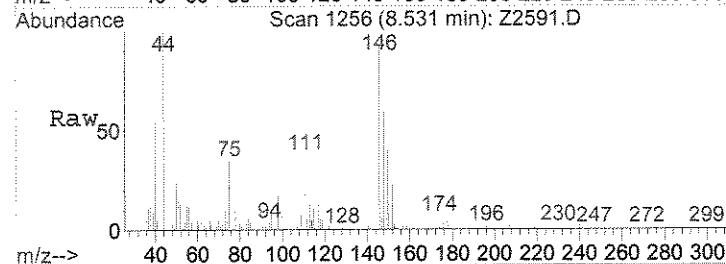
#100
 1,4-Dclbenz
 Concen: 0.35 ppb m
 RT: 8.16 min Scan# 1195
 Delta R.T. -0.01 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.9	37.1	55.7
148	121.4	49.4	74.2#



#103
 1,2-Dclbenz
 Concen: 0.61 ppb
 RT: 8.53 min Scan# 1256
 Delta R.T. -0.01 min
 Lab File: Z2591.D
 Acq: 25 Jun 2008 5:54 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.1	39.1	58.7
148	63.9	50.2	75.2



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-62B

Date Sampled : 06/23/08 10:30 Order #: 1111765 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163915

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/08		
ANALYTICAL DILUTION:	10.00		
ACETONE	20	200 U	UG/L
BENZENE	1.0	2200 E	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	10 U	UG/L
BROMOMETHANE	2.0	20 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
TERT-BUTYL ALCOHOL	100	1000 U	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
CHLOROBEZENE	1.0	1100	UG/L
CHLOROETHANE	2.0	20 U	UG/L
CHLOROFORM	1.0	2.3 J	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-DICHLOROBEZENE	2.0	26	UG/L
1,4-DICHLOROBEZENE	2.0	35	UG/L
1,3-DICHLOROBEZENE	2.0	20 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	10 U	UG/L
1,1-DICHLOROETHANE	1.0	8.1 J	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
HEXACHLOROBTADIENE	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-62B

Date Sampled : 06/23/08 10:30 Order #: 1111765 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163915

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/08			
ANALYTICAL DILUTION: 10.00			
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	6.9 J	UG/L
TOLUENE	1.0	10 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	18 J	UG/L
1,2,3-TRICHLOROBENZENE	2.0	3.9 J	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	2.2 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 %)	102	%
TOLUENE-D8	(70 - 130 %)	97	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2592.D
 Acq On : 25 Jun 2008 6:22 pm
 Sample : 1111765 10
 Misc : ENSR R-44538 8260B.DODO
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 18:34 2008

Vial: 21
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

*Report
 RPT @ 1/20*

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	729289	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1355161	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.96	117	1188513	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.14	152	479728	50.00	ppb	0.00

System Monitoring Compounds

43) surr4, Dibrflmethane	3.12	113	384359	47.48	ppb	0.00
Spiked Amount	50.000		Recovery	=	94.96%	
48) surr1, 1,2-Dicethane	3.34	65	368077	43.41	ppb	0.00
Spiked Amount	50.000		Recovery	=	86.82%	
69) surr3, Toluene-d8	4.75	98	1492797	48.66	ppb	0.00
Spiked Amount	50.000		Recovery	=	97.32%	
70) surr2, bfb	7.03	95	554934	51.03	ppb	0.00
Spiked Amount	50.000		Recovery	=	102.06%	

Target Compounds

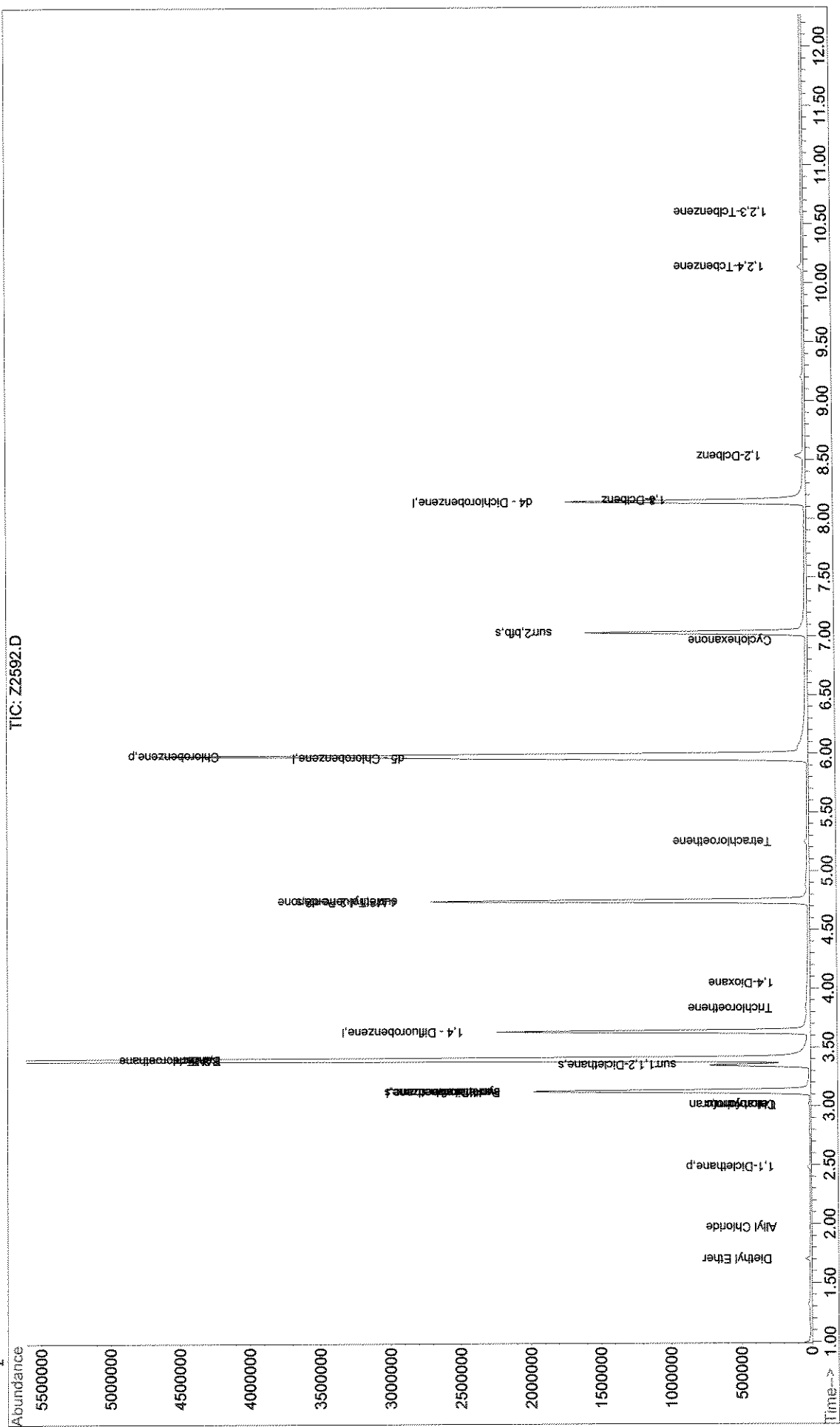
	R.T.	QIon	Response	Conc	Units	Qvalue	
10) Diethyl Ether	1.70	59	11575	1.87	ppb	96	NT
16) Acetone	1.85	43	2008	Below Cal	#	84	
21) Allyl Chloride	1.97	76	3218	0.69	ppb	#	1
28) 1,1-Dicethane	2.48	63	14479	0.81	ppb		97 J
39) Chloroform	3.01	83	3397	0.23	ppb		100 J
40) Tetrahydrofuran	3.02	42	1286	0.72	ppb		98
44) cyclohexane	3.13	56	17612	1.06	ppb	#	1
49) Benzene	3.40	78	6862139	216.08	ppb		95 E
50) 1,2-Dichloroethane	3.40	62	55353	5.80	ppb	#	72
51) TAME	3.40	73	118392	6.57	ppb	#	39
53) Trichloroethene	3.84	95	1678	0.22	ppb	#	67 J
57) 1,4-Dioxane	4.05	88	816	26.38	ppb	#	39
64) 4-Methyl-2-Pentanone	4.75	43	9611	1.43	ppb	#	1
71) Tetrachloroethene	5.25	166	4585	0.69	ppb	#	79 J
76) Chlorobenzene	5.98	112	2228477	113.25	ppb		96
84) Cyclohexanone	6.97	55	265	0.57	ppb	#	1
99) 1,3-Dclbenz	8.17	146	41997	3.51	ppb		94
100) 1,4-Dclbenz	8.17	146	42871	3.48	ppb		95
103) 1,2-Dclbenz	8.53	146	27896	2.60	ppb		96
106) 1,2,4-Tclbenzene	10.13	180	10328	1.84	ppb		96 J
109) 1,2,3-Tclbenzene	10.60	180	1840	0.39	ppb	#	71 J

*RJH
 7/8*

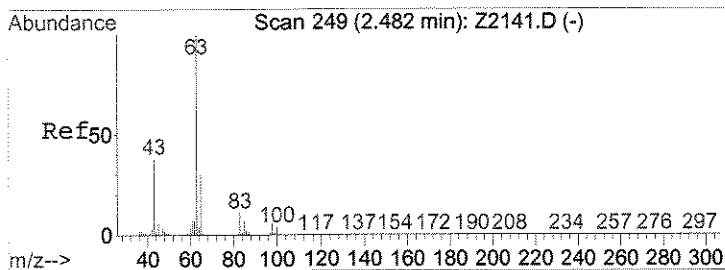
(#) = qualifier out of range (m) = manual integration

Data File : J:\ACQDATA\MSVOA8\DATA\062508\Z2592.D Vial: 21
 Acq On : 25 Jun 2008 6:22 pm Operator: Herring
 Sample : 1111765 10 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 18:34 2008 Quant Results File: W060208.RE5

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260v0a
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration

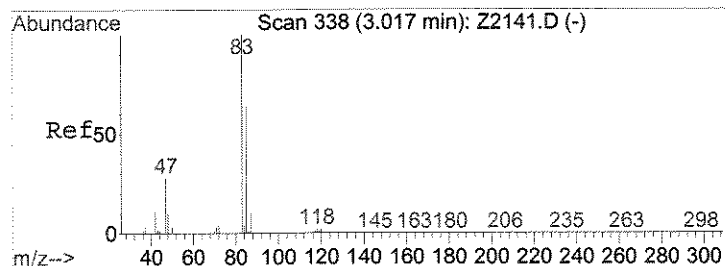
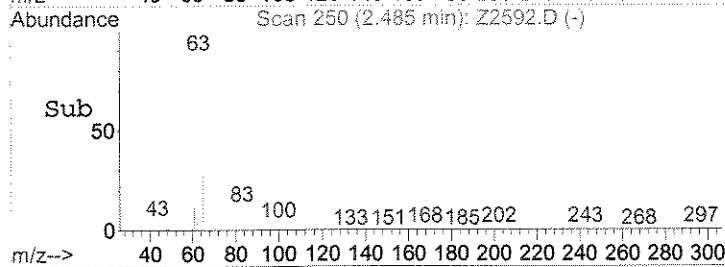
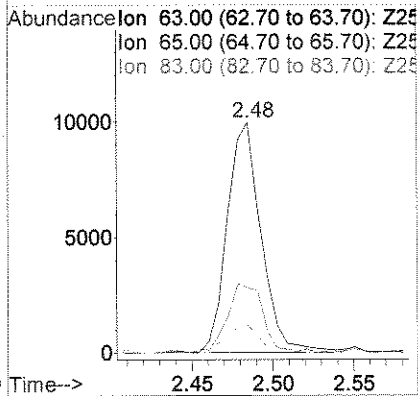
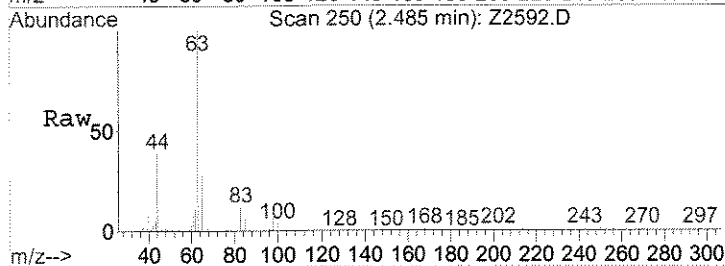


00210



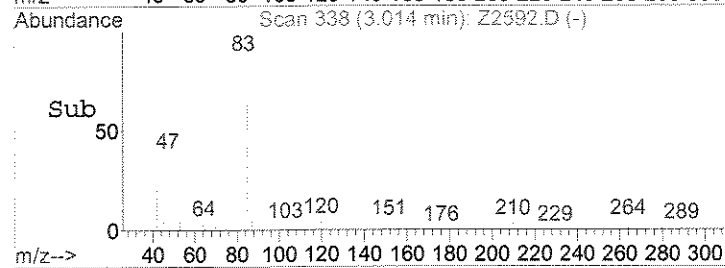
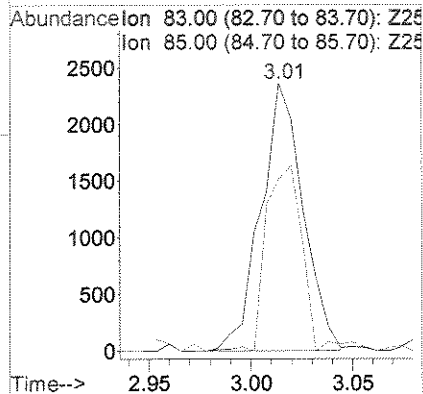
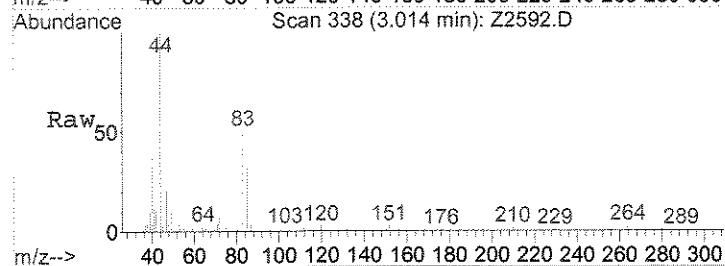
#28
 1,1-Diclcethane
 Concen: 0.81 ppb
 RT: 2.48 min Scan# 250
 Delta R.T. 0.00 min
 Lab File: Z2592.D
 Acq: 25 Jun 2008 6:22 pm

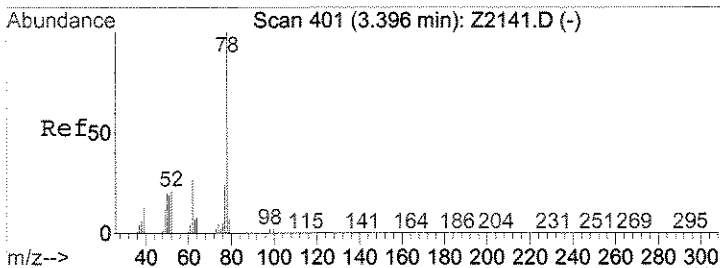
Tgt Ion	Resp	Lower	Upper
63	14479		
65	29.0	24.1	36.1
83	13.2	9.1	13.7



#39
 Chloroform
 Concen: 0.23 ppb
 RT: 3.01 min Scan# 338
 Delta R.T. -0.00 min
 Lab File: Z2592.D
 Acq: 25 Jun 2008 6:22 pm

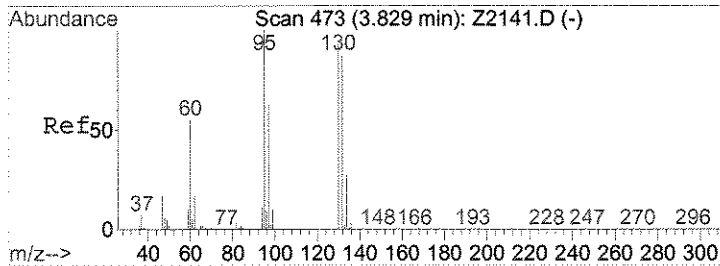
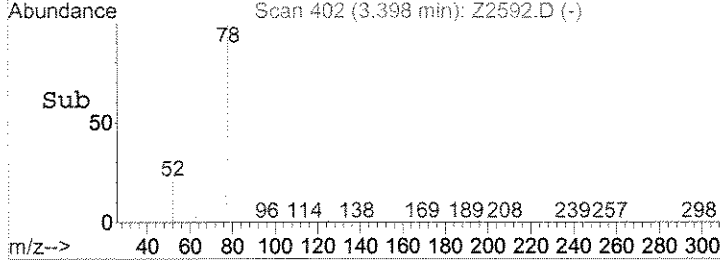
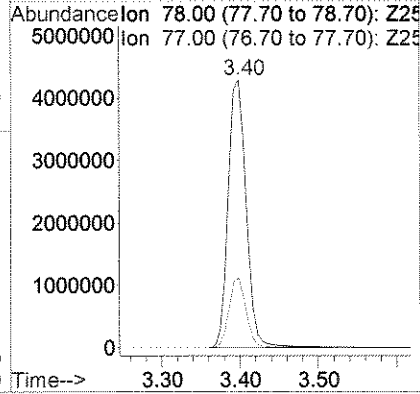
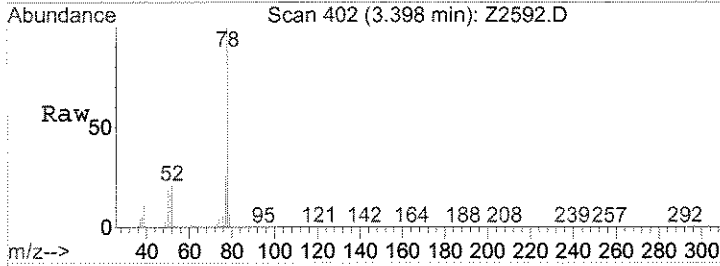
Tgt Ion	Resp	Lower	Upper
83	3397		
85	64.4	51.3	76.9





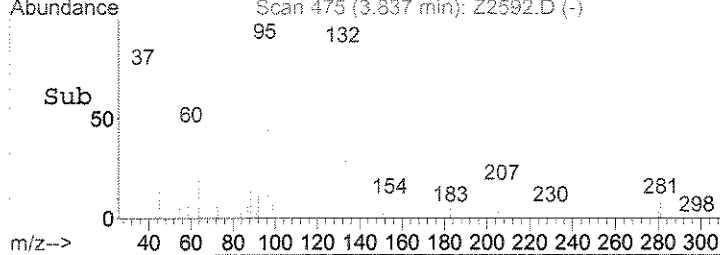
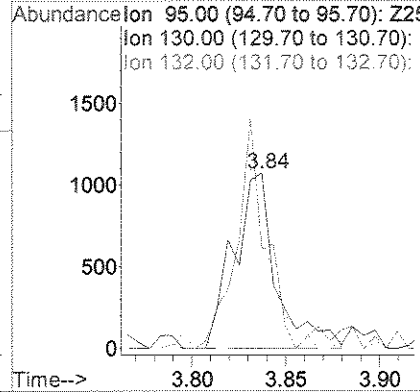
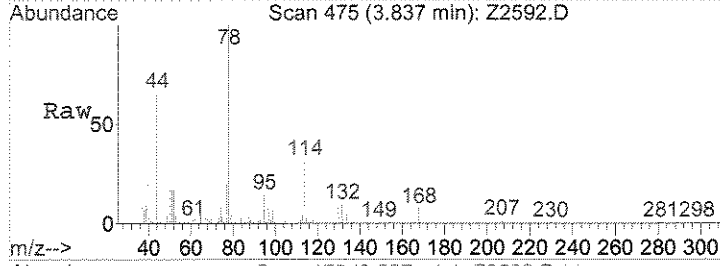
#49
Benzene
Concen: 216.08 ppb
RT: 3.40 min Scan# 402
Delta R.T. -0.00 min
Lab File: Z2592.D
Acq: 25 Jun 2008 6:22 pm

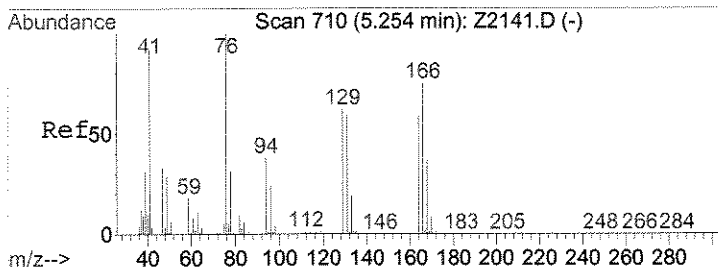
Tgt Ion: 78 Resp: 6862139
Ion Ratio Lower Upper
78 100
77 26.3 16.6 30.8



#53
Trichloroethene
Concen: 0.22 ppb
RT: 3.84 min Scan# 475
Delta R.T. 0.00 min
Lab File: Z2592.D
Acq: 25 Jun 2008 6:22 pm

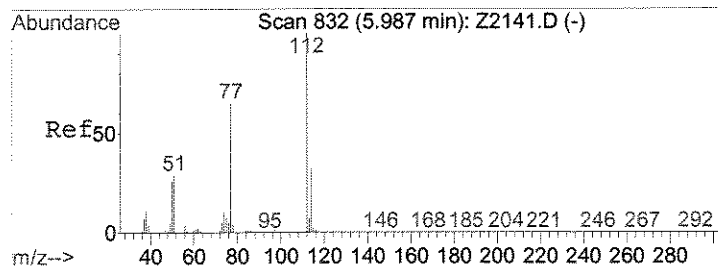
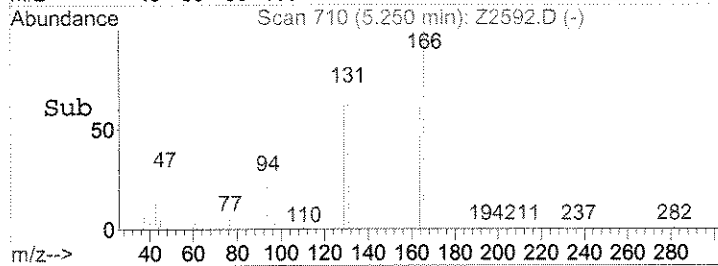
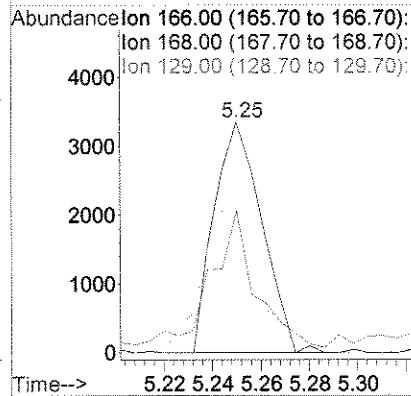
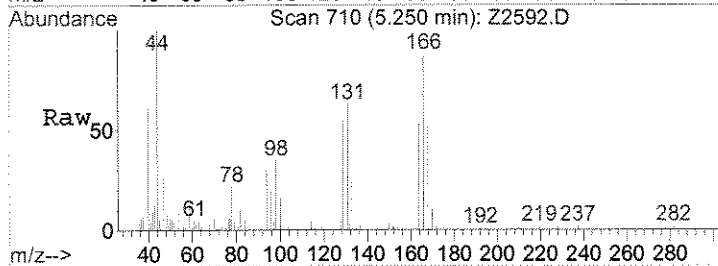
Tgt Ion: 95 Resp: 1678
Ion Ratio Lower Upper
95 100
130 56.7 74.2 111.4#
132 61.5 69.4 104.2#





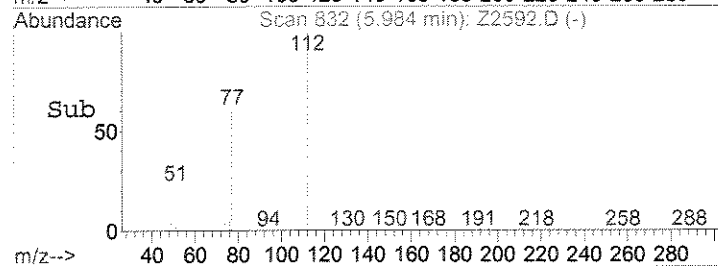
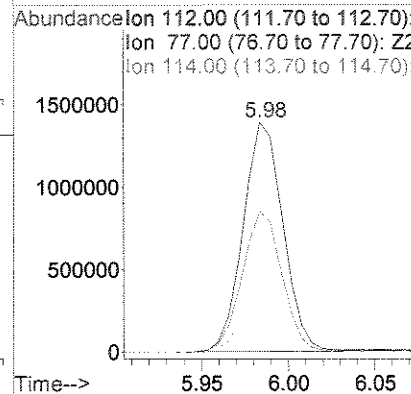
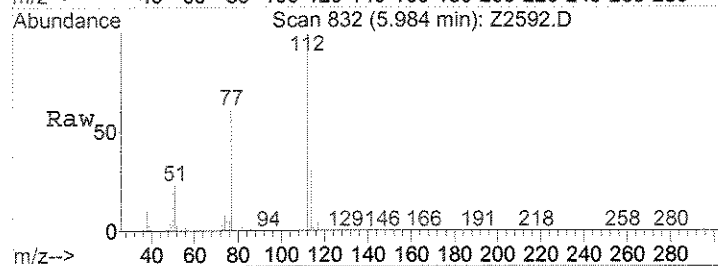
#71
 Tetrachloroethene
 Concen: 0.69 ppb
 RT: 5.25 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: Z2592.D
 Acq: 25 Jun 2008 6:22 pm

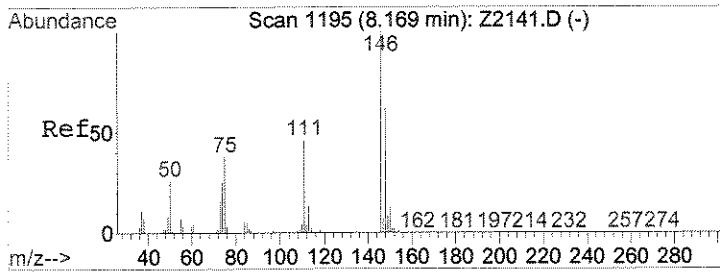
Tgt Ion	Ratio	Lower	Upper
166	100		
168	61.5	39.1	58.7#
129	62.2	66.1	99.1#



#76
 Chlorobenzene
 Concen: 113.25 ppb
 RT: 5.98 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: Z2592.D
 Acq: 25 Jun 2008 6:22 pm

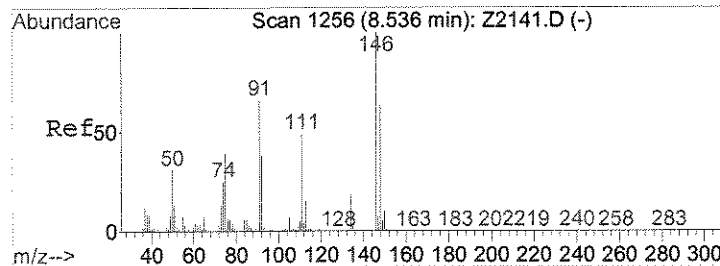
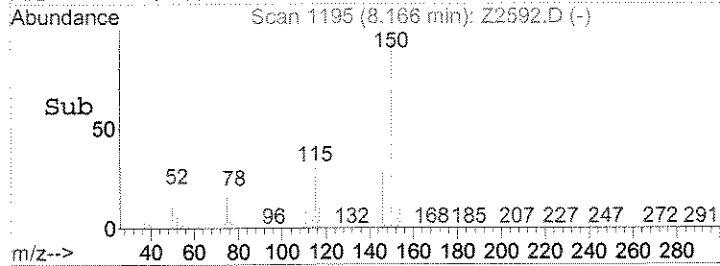
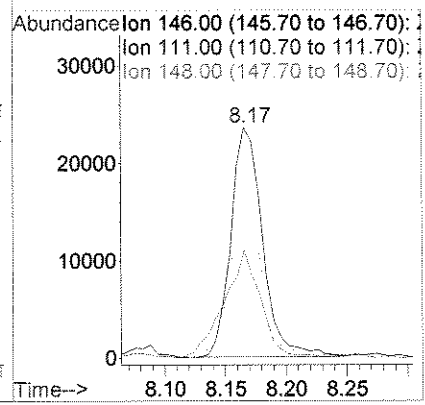
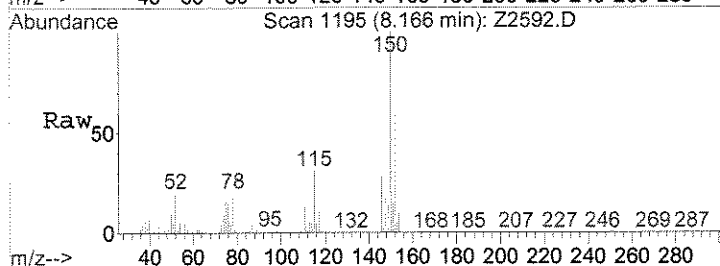
Tgt Ion	Ratio	Lower	Upper
112	100		
77	61.1	52.4	78.6
114	30.8	25.6	38.4





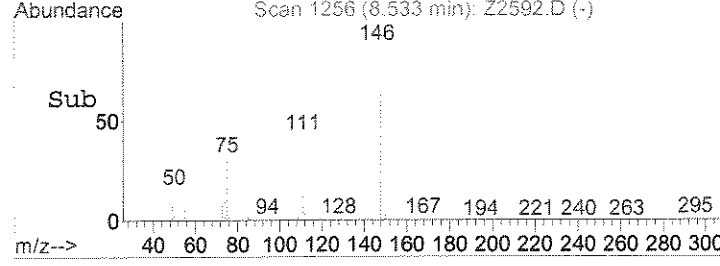
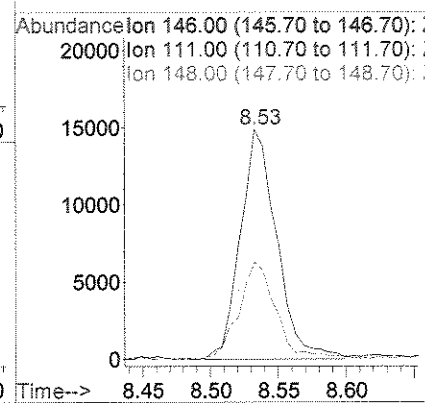
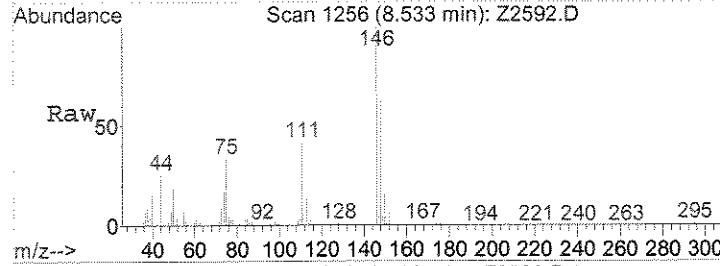
#100
 1,4-Dclbenz
 Concen: 3.48 ppb
 RT: 8.17 min Scan# 1195
 Delta R.T. -0.01 min
 Lab File: Z2592.D
 Acq: 25 Jun 2008 6:22 pm

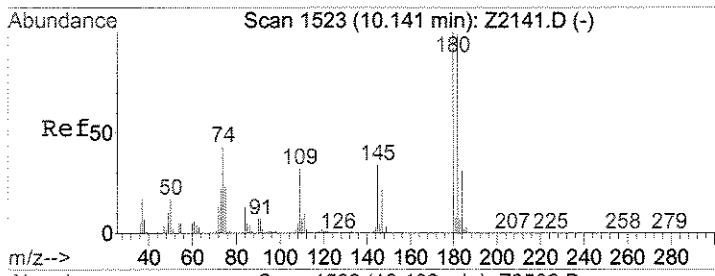
Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.7	37.1	55.7
148	68.5	49.4	74.2



#103
 1,2-Dclbenz
 Concen: 2.60 ppb
 RT: 8.53 min Scan# 1256
 Delta R.T. -0.01 min
 Lab File: Z2592.D
 Acq: 25 Jun 2008 6:22 pm

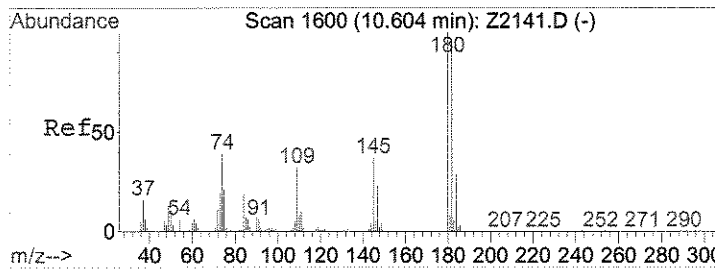
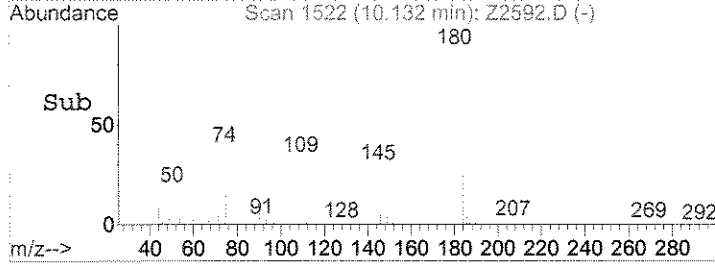
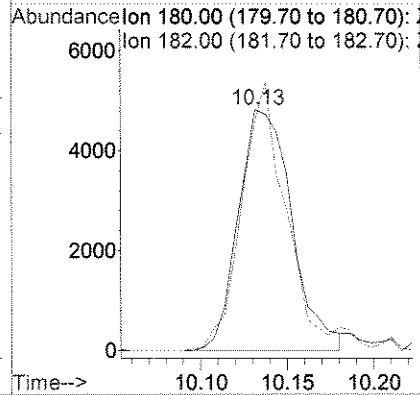
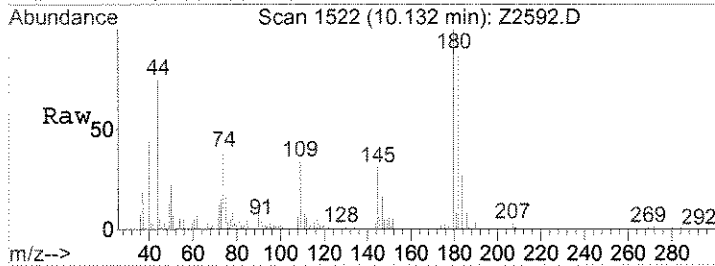
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.4	39.1	58.7
148	63.1	50.2	75.2





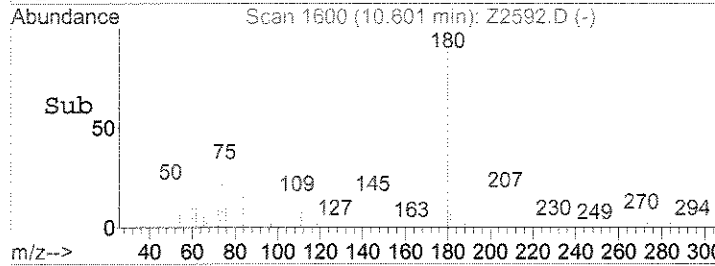
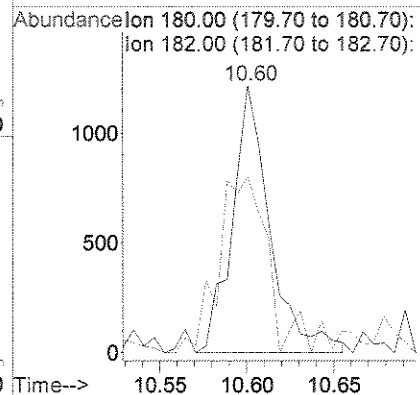
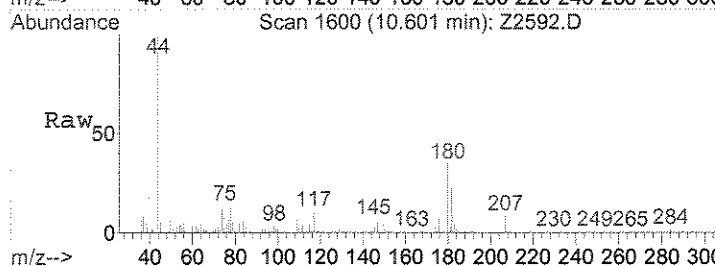
#106
 1,2,4-Tcbenzene
 Concen: 1.84 ppb
 RT: 10.13 min Scan# 1522
 Delta R.T. -0.01 min
 Lab File: Z2592.D
 Acq: 25 Jun 2008 6:22 pm

Tgt Ion:180 Resp: 10328
 Ion Ratio Lower Upper
 180 100
 182 95.4 79.1 118.7



#109
 1,2,3-Tclbenzene
 Concen: 0.39 ppb
 RT: 10.60 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: Z2592.D
 Acq: 25 Jun 2008 6:22 pm

Tgt Ion:180 Resp: 1840
 Ion Ratio Lower Upper
 180 100
 182 65.8 75.4 113.2#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-62B

Date Sampled : 06/23/08 10:30 Order #: 1111765 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163915

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/26/08		
ANALYTICAL DILUTION:	20.00		
ACETONE	20	400 U	UG/L
BENZENE	1.0	2400 D	UG/L
BROMOBENZENE	2.0	40 U	UG/L
BROMOCHLOROMETHANE	2.0	40 U	UG/L
BROMODICHLOROMETHANE	1.0	20 U	UG/L
BROMOFORM	1.0	20 U	UG/L
BROMOMETHANE	2.0	40 U	UG/L
2-BUTANONE (MEK)	10	200 U	UG/L
TERT-BUTYL ALCOHOL	100	2000 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	20 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	20 U	UG/L
TERT-BUTYLBENZENE	2.0	40 U	UG/L
SEC-BUTYLBENZENE	2.0	40 U	UG/L
N-BUTYLBENZENE	5.0	100 U	UG/L
CARBON TETRACHLORIDE	1.0	20 U	UG/L
CHLOROBENZENE	1.0	1200 D	UG/L
CHLOROETHANE	2.0	40 U	UG/L
CHLOROFORM	1.0	20 U	UG/L
CHLOROMETHANE	2.0	40 U	UG/L
1, 2-DIBROMO-3-CHLOROPROPANE	5.0	100 U	UG/L
2-CHLOROTOLUENE	5.0	100 U	UG/L
4-CHLOROTOLUENE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	1.0	20 U	UG/L
1, 2-DIBROMOETHANE	1.0	20 U	UG/L
DIBROMOMETHANE	1.0	20 U	UG/L
1, 2-DICHLOROBENZENE	2.0	25 JD	UG/L
1, 4-DICHLOROBENZENE	2.0	38 JD	UG/L
1, 3-DICHLOROBENZENE	2.0	40 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	20 U	UG/L
1, 1-DICHLOROETHANE	1.0	8.0 JD	UG/L
1, 2-DICHLOROETHANE	1.0	20 U	UG/L
1, 1-DICHLOROETHENE	1.0	20 U	UG/L
TRANS-1, 2-DICHLOROETHENE	1.0	20 U	UG/L
CIS-1, 2-DICHLOROETHENE	1.0	20 U	UG/L
2, 2-DICHLOROPROPANE	2.0	40 U	UG/L
1, 2-DICHLOROPROPANE	1.0	20 U	UG/L
1, 3-DICHLOROPROPANE	2.0	40 U	UG/L
1, 1-DICHLOROPROPENE	2.0	40 U	UG/L
TRANS-1, 3-DICHLOROPROPENE	1.0	20 U	UG/L
CIS-1, 3-DICHLOROPROPENE	1.0	20 U	UG/L
ETHYLBENZENE	1.0	20 U	UG/L
HEXACHLOROBUTADIENE	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
DI-ISOPROPYL ETHER	1.0	20 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-62B

Date Sampled : 06/23/08 10:30 Order #: 1111765 Sample Matrix: WATER
Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163915

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/26/08		
ANALYTICAL DILUTION:	20.00		
ISOPROPYLBENZENE	2.0	40 U	UG/L
P-ISOPROPYLTOLUENE	2.0	40 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	20 U	UG/L
METHYLENE CHLORIDE	2.0	40 U	UG/L
NAPHTHALENE	2.0	40 U	UG/L
4-METHYL-2-PENTANONE	10	200 U	UG/L
N-PROPYLBENZENE	2.0	40 U	UG/L
STYRENE	1.0	20 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	20 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	20 U	UG/L
TETRACHLOROETHENE	1.0	8.2 JD	UG/L
TOLUENE	1.0	20 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	20 JD	UG/L
1,2,3-TRICHLOROBENZENE	2.0	40 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	20 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	20 U	UG/L
TRICHLOROETHENE	1.0	20 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	20 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	40 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	40 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	40 U	UG/L
VINYL CHLORIDE	1.0	20 U	UG/L
M+P-XYLENE	2.0	40 U	UG/L
O-XYLENE	1.0	20 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	104	%
TOLUENE-D8	(70 - 130 %)	100	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Quantitation Report (Not Reviewed)

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2613.D Vial: 12
 Acq On : 26 Jun 2008 3:09 pm Operator: Herring
 Sample : 1111765 20 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 15:23 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

ASDL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	727868	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.64	114	1352908	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.97	117	1179328	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.15	152	476275	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) surr4,Dibrflmethane	3.13	113	391598	48.45	ppb	0.00
Spiked Amount			50.000	Recovery	=	96.90%
48) surr1,1,2-Diclcethane	3.35	65	361443	42.70	ppb	0.00
Spiked Amount			50.000	Recovery	=	85.40%
69) surr3,Toluene-d8	4.75	98	1517765	49.86	ppb	0.00
Spiked Amount			50.000	Recovery	=	99.72%
70) surr2,bfb	7.04	95	560285	51.92	ppb	0.00
Spiked Amount			50.000	Recovery	=	103.84%

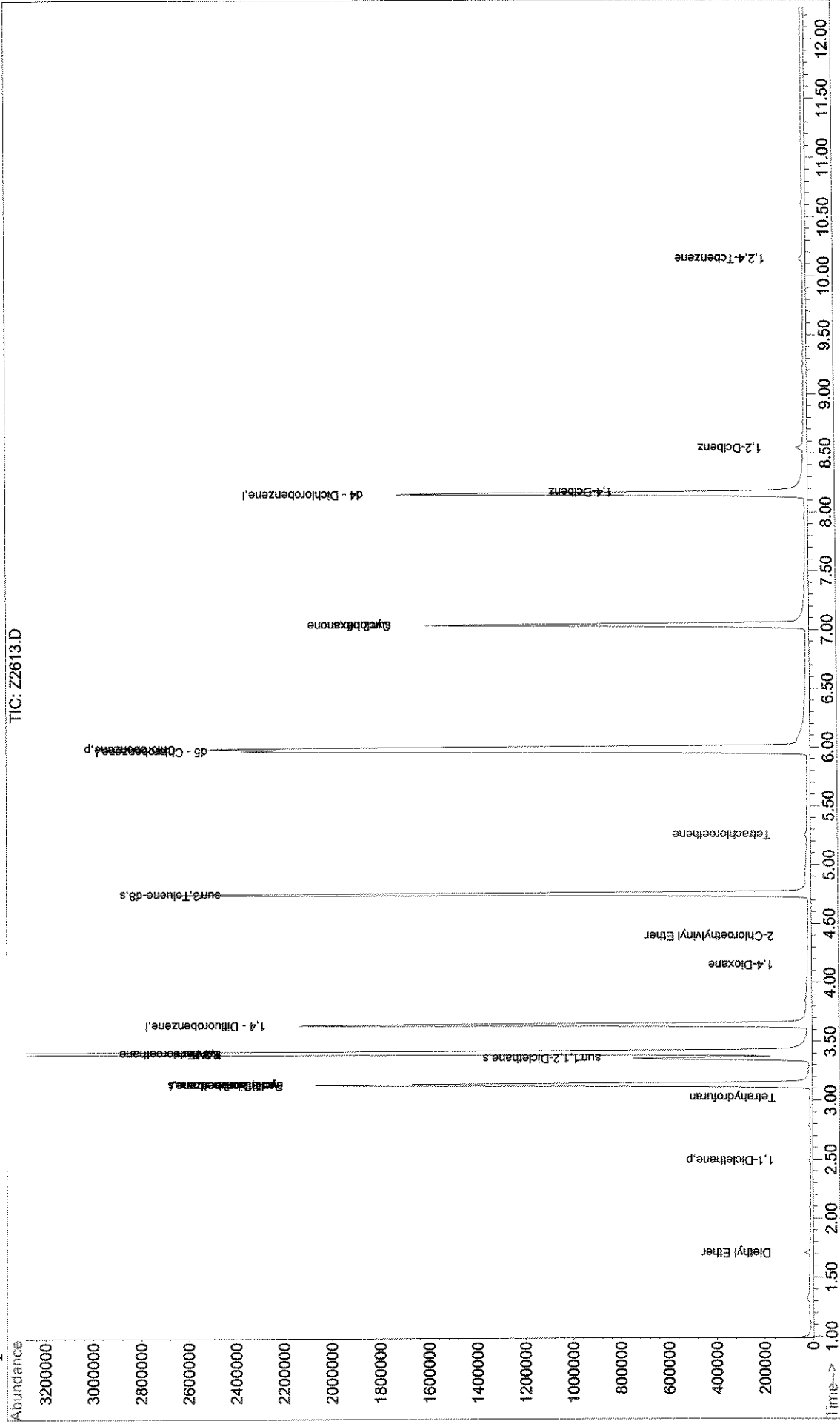
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Diethyl Ether	1.71	59	5858	0.95	ppb	95 NT
16) Acetone	1.86	43	1570	Below Cal		92
28) 1,1-Diclcethane	2.49	63	7085	0.40	ppb	# 90 JD
40) Tetrahydrofuran	3.02	42	937	0.52	ppb	# 40
44) cyclohexane	3.13	56	17204	1.03	ppb	# 1
49) Benzene	3.40	78	3854077	121.56	ppb	# 99 D
50) 1,2-Dichloroethane	3.40	62	31800	3.34	ppb	# 72
51) TAME	3.40	73	64698	3.60	ppb	# 40
57) 1,4-Dioxane	4.15	88	372	12.05	ppb	# 27
61) 2-Chloroethylvinyl Ether	4.39	63	922	0.25	ppb	# 50
71) Tetrachloroethene	5.25	166	2678	0.41	ppb	# 78 JD
76) Chlorobenzene	5.99	112	1168342	59.84	ppb	# 96 D
84) Cyclohexanone	7.04	55	2158	4.64	ppb	# 99
100) 1,4-Dclbenz	8.18	146	22958	1.88	ppb	# 90 JD
103) 1,2-Dclbenz	8.55	146	13534	1.27	ppb	# 76 JD
106) 1,2,4-Tcbenzene	10.15	180	5447	0.98	ppb	# 99 JD

RJH
7/14

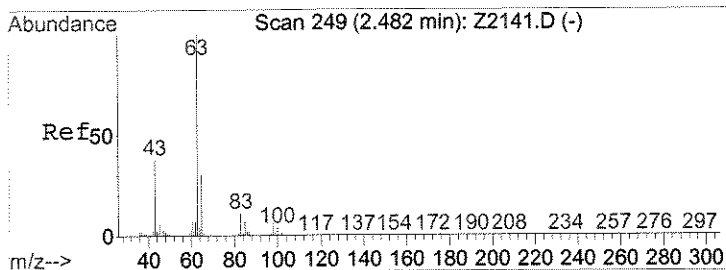
(#) = qualifier out of range (m) = manual integration
 Z2613.D W060208.M Thu Jun 26 15:59:00 2008

Data File : J:\ACQDATA\MSVOA8\DATA\062608\Z2613.D Vial: 12
Acq On : 26 Jun 2008 3:09 pm Operator: Herring
Sample : 1111765 20 Inst : MS #8
Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 26 15:23 2008 Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa
Last Update : Tue Jun 03 13:30:30 2008
Response via : Initial Calibration

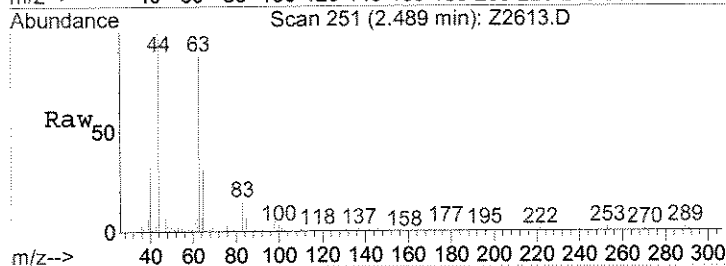


51200

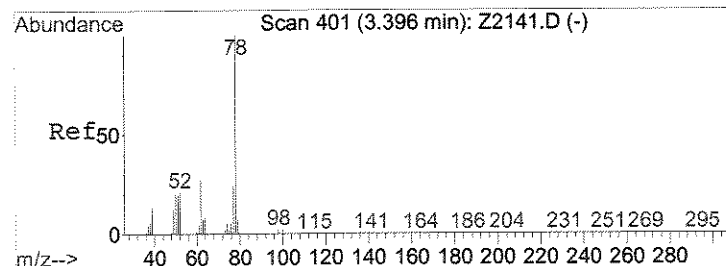
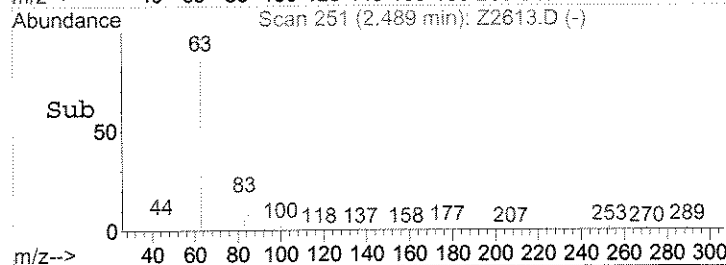
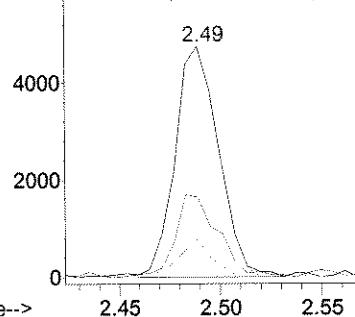


#28
 1,1-Diclcethane
 Concen: 0.40 ppb
 RT: 2.49 min Scan# 251
 Delta R.T. 0.01 min
 Lab File: Z2613.D
 Acq: 26 Jun 2008 3:09 pm

Tgt Ion: 63 Resp: 7085
 Ion Ratio Lower Upper
 63 100
 65 34.5 24.1 36.1
 83 16.4 9.1 13.7#

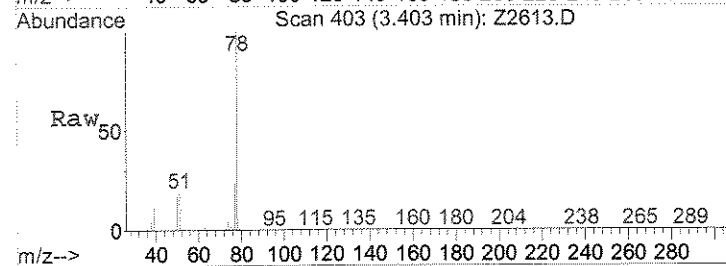


Abundance Ion 63.00 (62.70 to 63.70): Z26
 Ion 65.00 (64.70 to 65.70): Z26
 Ion 83.00 (82.70 to 83.70): Z26

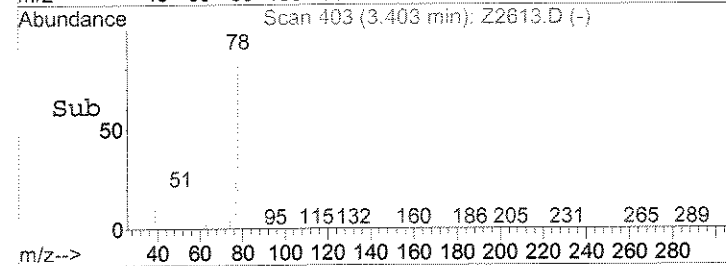
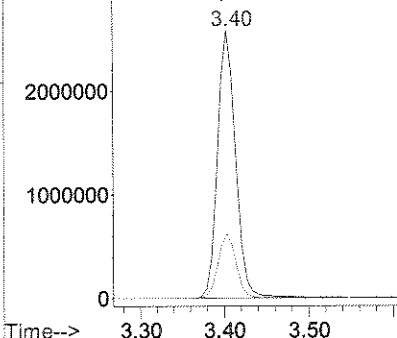


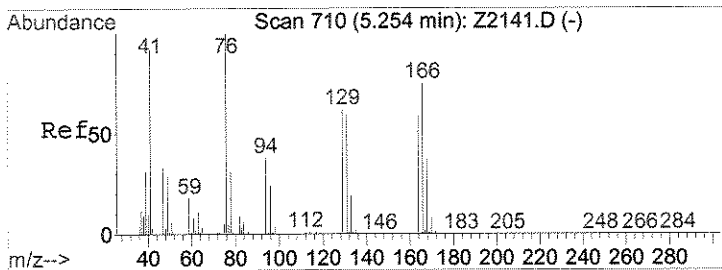
#49
 Benzene
 Concen: 121.56 ppb
 RT: 3.40 min Scan# 403
 Delta R.T. 0.00 min
 Lab File: Z2613.D
 Acq: 26 Jun 2008 3:09 pm

Tgt Ion: 78 Resp: 3854077
 Ion Ratio Lower Upper
 78 100
 77 24.1 16.6 30.8



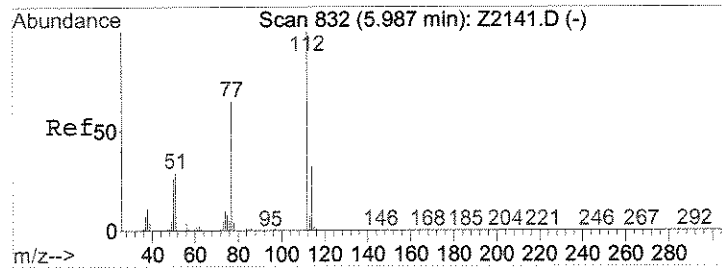
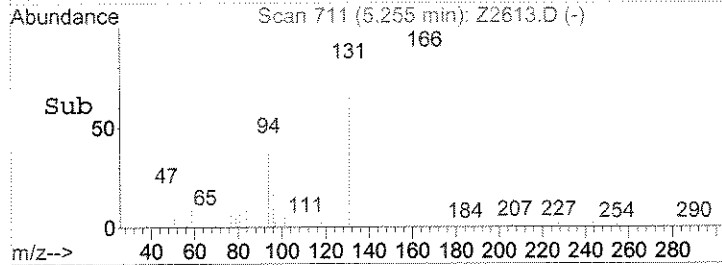
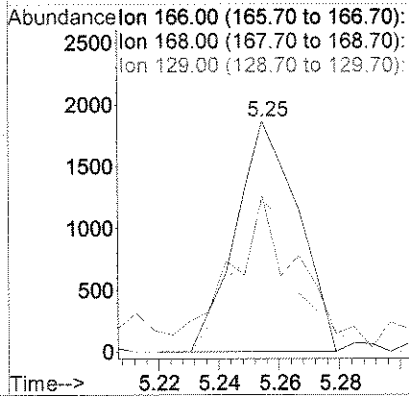
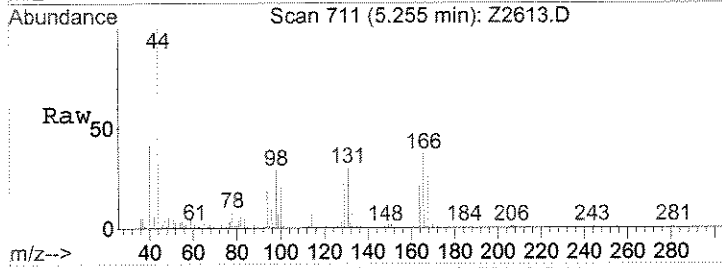
Abundance Ion 78.00 (77.70 to 78.70): Z26
 Ion 77.00 (76.70 to 77.70): Z26





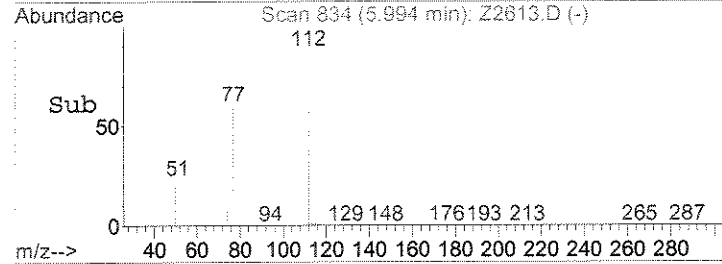
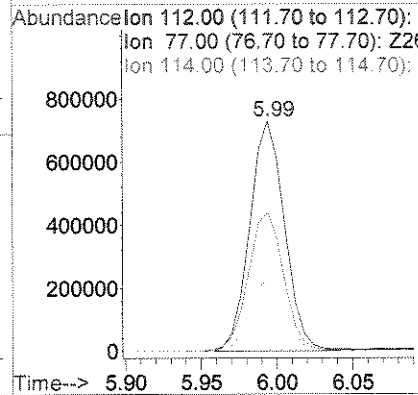
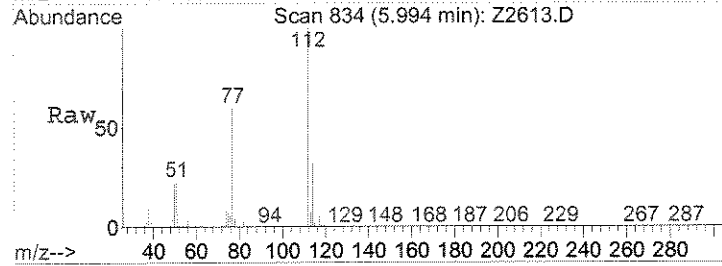
#71
 Tetrachloroethene
 Concen: 0.41 ppb
 RT: 5.25 min Scan# 711
 Delta R.T. 0.00 min
 Lab File: Z2613.D
 Acq: 26 Jun 2008 3:09 pm

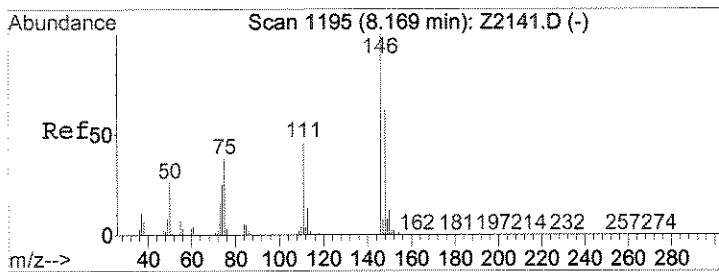
Tgt Ion	Resp	Lower	Upper
166	2678		
168	68.6	39.1	58.7#
129	66.0	66.1	99.1#



#76
 Chlorobenzene
 Concen: 59.84 ppb
 RT: 5.99 min Scan# 834
 Delta R.T. 0.00 min
 Lab File: Z2613.D
 Acq: 26 Jun 2008 3:09 pm

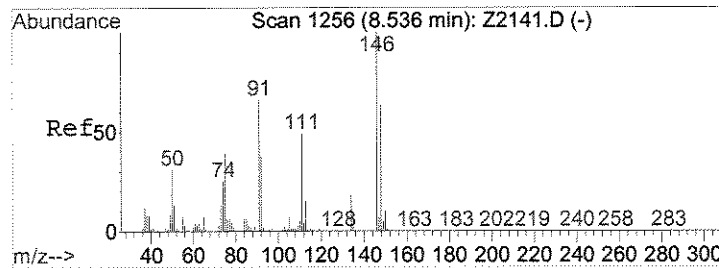
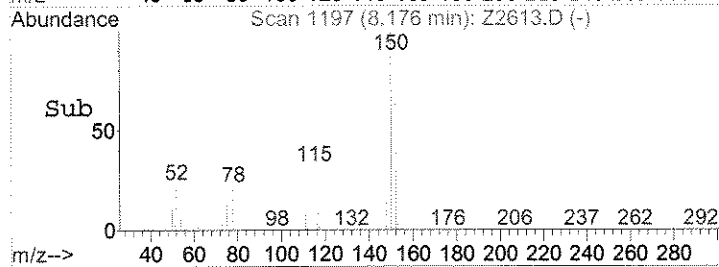
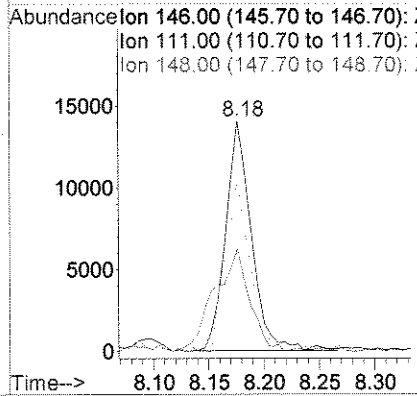
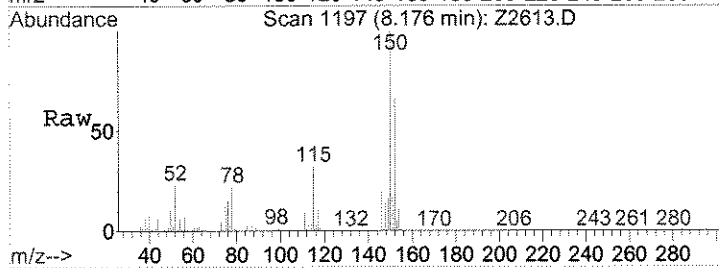
Tgt Ion	Resp	Lower	Upper
112	1168342		
77	60.4	52.4	78.6
114	31.9	25.6	38.4





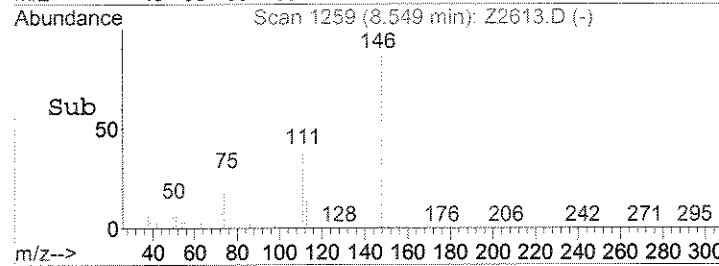
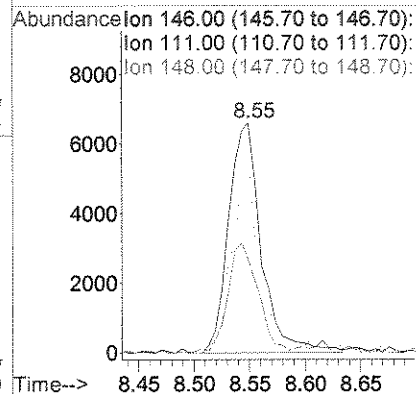
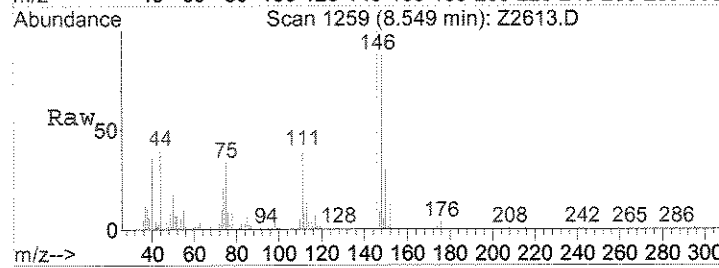
#100
 1,4-Dclbenz
 Concen: 1.88 ppb
 RT: 8.18 min Scan# 1197
 Delta R.T. 0.00 min
 Lab File: Z2613.D
 Acq: 26 Jun 2008 3:09 pm

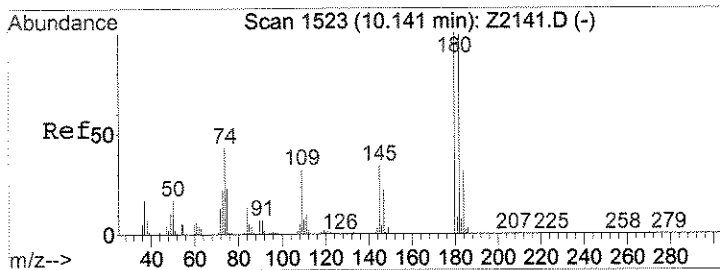
Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.5	37.1	55.7
148	73.9	49.4	74.2



#103
 1,2-Dclbenz
 Concen: 1.27 ppb
 RT: 8.55 min Scan# 1259
 Delta R.T. 0.01 min
 Lab File: Z2613.D
 Acq: 26 Jun 2008 3:09 pm

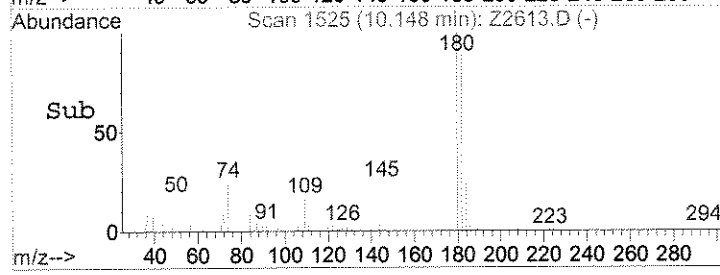
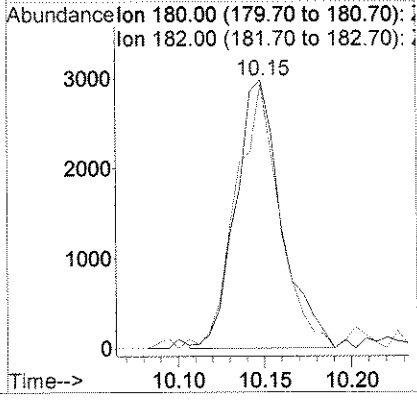
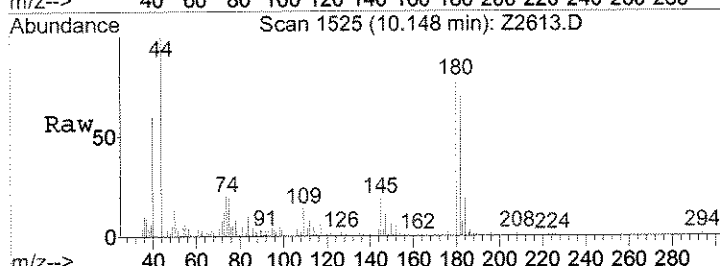
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	39.1	58.7
148	87.9	50.2	75.2#





#106
 1,2,4-Tcbenzene
 Concen: 0.98 ppb
 RT: 10.15 min Scan# 1525
 Delta R.T. 0.01 min
 Lab File: Z2613.D
 Acq: 26 Jun 2008 3:09 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.3	79.1	118.7



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/23/08 12:00 Order #: 1111767 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/08		
ANALYTICAL DILUTION:	1.00		
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	0.28 J	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/23/08 12:00 Order #: 1111767 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/08			
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 %)	105	%
TOLUENE-D8	(70 - 130 %)	100	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2593.D
 Acq On : 25 Jun 2008 6:49 pm
 Sample : 1111767 1.0
 Misc : ENSR R-44538 8260B.DODO
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 19:01 2008

Vial: 22
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	721360	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1319630	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.96	117	1145781	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.15	152	469274	50.00	ppb	0.00

System Monitoring Compounds

43) surr4, Dibrflmethane	3.11	113	384082	48.72	ppb	0.00
Spiked Amount				50.000		
				Recovery	=	97.44%
48) surr1, 1,2-Dicethane	3.34	65	358148	43.38	ppb	0.00
Spiked Amount				50.000		
				Recovery	=	86.76%
69) surr3, Toluene-d8	4.74	98	1472424	49.78	ppb	0.00
Spiked Amount				50.000		
				Recovery	=	99.56%
70) surr2, bfb	7.03	95	551478	52.60	ppb	-0.01
Spiked Amount				50.000		
				Recovery	=	105.20%

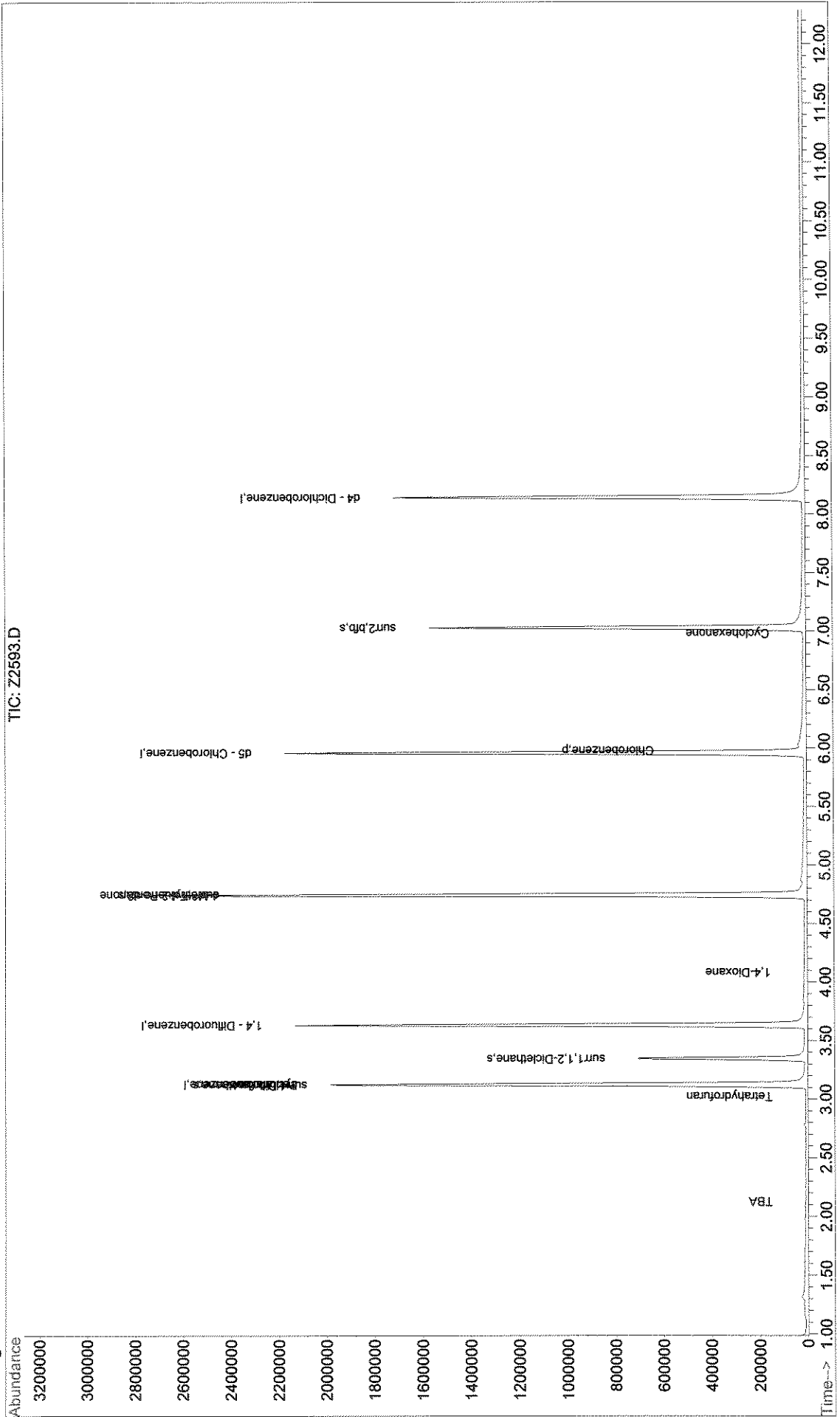
Target Compounds

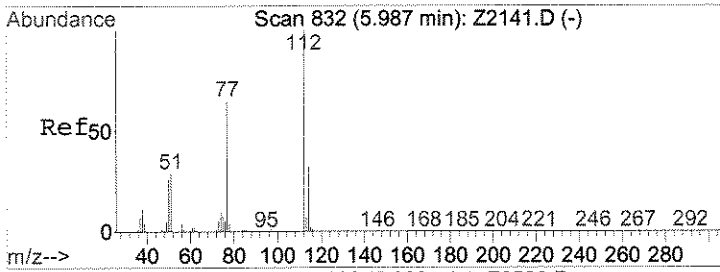
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	1.85	43	2343	Below Cal	#	79
24) TBA	2.13	59	1196	2.92	ppb	# 59
40) Tetrahydrofuran	3.02	42	829	0.47	ppb	# 40
44) cyclohexane	3.13	56	17029	1.05	ppb	# 1
57) 1,4-Dioxane	4.09	88	493	16.37	ppb	# 8
64) 4-Methyl-2-Pentanone	4.74	43	9778	1.51	ppb	# 1
76) Chlorobenzene	5.98	112	5310	0.28	ppb	# 84
84) Cyclohexanone	6.98	55	1200	2.65	ppb	# 73

*PSH
7/8*

Data File : J:\ACQDATA\MSVOA8\DATA\062508\Z2593.D Vial: 22
 Acq On : 25 Jun 2008 6:49 pm Operator: Herring
 Sample : 1111767 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 19:01 2008 Quant Results File: W060208.RES

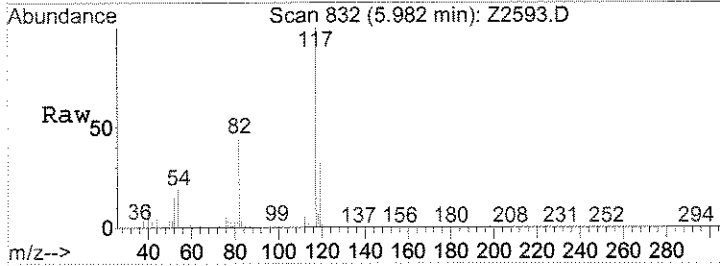
Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration



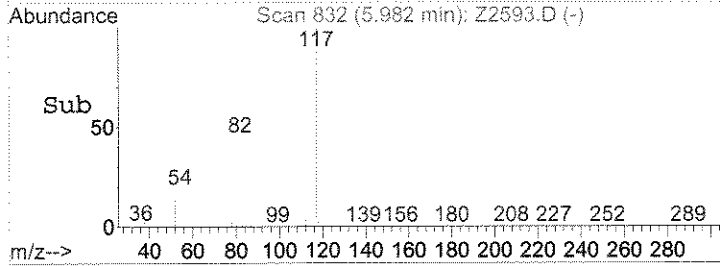
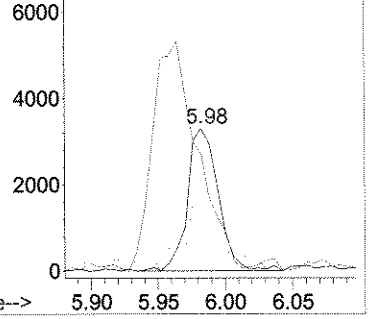


#76
 Chlorobenzene
 Concen: 0.28 ppb
 RT: 5.98 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: Z2593.D
 Acq: 25 Jun 2008 6:49 pm

Tgt Ion	Ratio	Lower	Upper
112	100		
77	82.5	52.4	78.6#
114	34.0	25.6	38.4



Abundance
 Ion 112.00 (111.70 to 112.70): 7
 Ion 77.00 (76.70 to 77.70): 225
 Ion 114.00 (113.70 to 114.70): 2



Time--> 5.90 5.95 6.00 6.05

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/23/08 13:35 **Order #:** 1111768 **Sample Matrix:** WATER
Date Received: 06/24/08 **Submission #:** R2844538 **Analytical Run** 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/08			
ANALYTICAL DILUTION: 1.00			
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

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : TRIP BLANK

Date Sampled : 06/23/08 13:35 Order #: 1111768 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/08		
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 %)	105	%
TOLUENE-D8	(70 - 130 %)	102	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	98	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2594.D Vial: 23
 Acq On : 25 Jun 2008 7:17 pm Operator: Herring
 Sample : 1111768 1.0 Inst : MS #8
 Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 19:29 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	736230	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1355695	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.96	117	1161102	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.15	152	487392	50.00	ppb	0.00

System Monitoring Compounds

43) surr4,Dibrflmethane	3.12	113	395558	48.84	ppb	0.00
Spiked Amount				50.000		
				Recovery	=	97.68%
48) surr1,1,2-Diclethane	3.35	65	372365	43.90	ppb	0.00
Spiked Amount				50.000		
				Recovery	=	87.80%
69) surr3,Toluene-d8	4.74	98	1523625	50.83	ppb	0.00
Spiked Amount				50.000		
				Recovery	=	101.66%
70) surr2,bfb	7.03	95	556719	52.40	ppb	-0.01
Spiked Amount				50.000		
				Recovery	=	104.80%

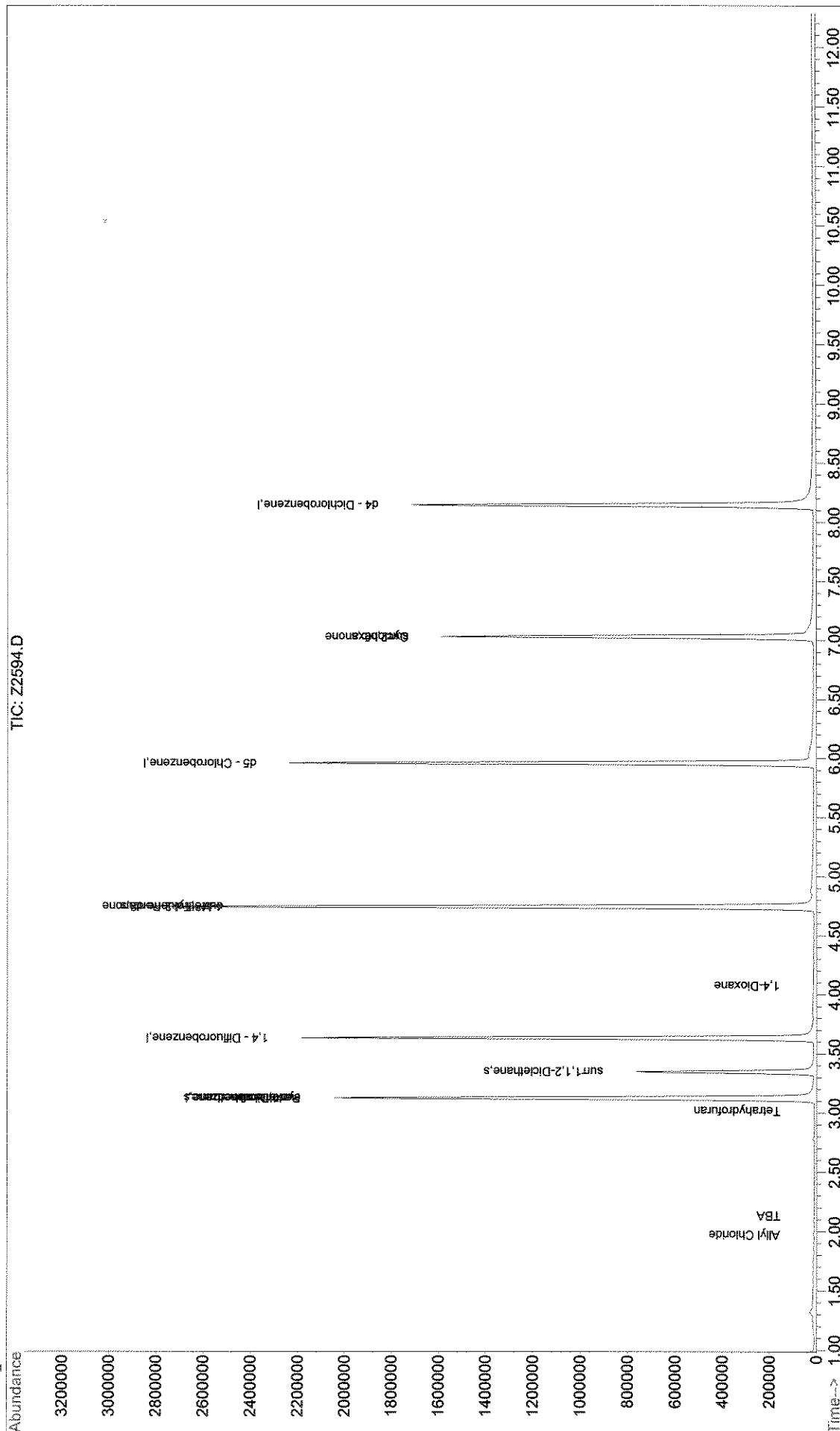
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	1.85	43	2116	Below Cal		93
21) Allyl Chloride	1.97	76	3560	0.76 ppb	#	1
24) TBA	2.13	59	1737	4.15 ppb	#	59
40) Tetrahydrofuran	3.01	42	1039	0.58 ppb	#	40
44) cyclohexane	3.13	56	16696	1.00 ppb	#	1
57) 1,4-Dioxane	4.08	88	309	9.99 ppb	#	8
64) 4-Methyl-2-Pentanone	4.74	43	9738	1.49 ppb	#	1
84) Cyclohexanone	7.03	55	2424	5.29 ppb	#	99

*RJH
7/8*

Data File : J:\ACQDATA\MSVOA8\DATA\062508\Z2594.D Vial: 23
Acq On : 25 Jun 2008 7:17 pm Operator: Herring
Sample : 1111768 1.0 Inst : MS #8
Misc : ENSR R-44538 8260B.DODO Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 25 19:29 2008 Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa
Last Update : Tue Jun 03 13:30:30 2008
Response via : Initial Calibration



VOLATILE ORGANICS
STANDARDS DATA

06-02-2008

Initial Calibration - Detailed Report

2.1/Erving

Calibration ID:	CAL777	82603 WATER	Instrument ID:	MS #8
Method ID:	MJ164	10ml purge	Column Name:	MS
			Calibration Fit:	AverageRF

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated						
6361	J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D	06/02/2008 14:22	06/03/2008 09:46	06/10/2008 10:07						
6362	J:\ACQUDATA\MSVOA8\DATA\060208\Z2137.D	06/02/2008 14:50	06/03/2008 09:54	06/10/2008 10:07						
6363	J:\ACQUDATA\MSVOA8\DATA\060208\Z2138.D	06/02/2008 15:18	06/03/2008 10:00	06/10/2008 10:07						
6364	J:\ACQUDATA\MSVOA8\DATA\060208\Z2139.D	06/02/2008 15:46	06/03/2008 09:34	06/10/2008 10:07						
6365	J:\ACQUDATA\MSVOA8\DATA\060208\Z2140.D	06/02/2008 16:14	06/03/2008 10:19	06/10/2008 10:07						
6366	J:\ACQUDATA\MSVOA8\DATA\060208\Z2141.D	06/02/2008 16:42	06/03/2008 10:22	06/10/2008 10:07						
6367	J:\ACQUDATA\MSVOA8\DATA\060208\Z2142.D	06/02/2008 17:10	06/03/2008 09:34	06/10/2008 10:07						
6368	J:\ACQUDATA\MSVOA8\DATA\060208\Z2143.D	06/02/2008 17:38	06/03/2008 10:30	06/10/2008 10:07						

Parameter Name	0.5	1.0	2.0	5.0	10	50	100	200	Mean	%RSD
	6361	6362	6363	6364	6365	6366	6367	6368	RF	
Dichlorodifluoromethane	0.494	0.438	0.448	0.503	0.582	0.538	0.543	0.514	0.508	9.5
Chloromethane	0.886	0.794	0.790	0.787	0.862	0.780	0.819	0.804	0.815	4.7
Vinyl Chloride	0.668	0.670	0.711	0.703	0.840	0.767	0.800	0.770	0.741	8.4
Bromomethane	0.626	0.543	0.468	0.454	0.439	0.420	0.451	0.468	0.484	14.0
Chloroethane	0.602	0.503	0.490	0.504	0.554	0.499	0.510	0.502	0.521	7.3
Dichlorofluoromethane (CFC 21)	1.285	1.141	1.205	1.210	1.296	1.212	1.269	1.174	1.224	4.5
Trichlorofluoromethane	0.792	0.758	0.733	0.757	0.856	0.789	0.788	0.784	0.782	4.6
Diethyl Ether	0.449	0.377	0.407	0.417	0.462	0.412	0.433	0.437	0.425	6.3
1,2-Dichloro-1,1,2-trifluoroethane (0.294	0.281	0.287	0.278	0.279	0.318	0.284	0.267	0.286	5.3
2,2-Dichloro-1,1,1-trifluoroethane (0.653	0.548	0.554	0.549	0.608	0.508	0.582	0.542	0.568	7.9
Acrolein		0.064	0.066	0.063	0.066	0.062	0.065	0.066	0.065	2.2
Trichlorotrifluoroethane	0.220	0.228	0.227	0.206	0.226	0.217	0.223	0.218	0.220	3.2
1,1-Dichloroethene	0.489	0.447	0.478	0.487	0.535	0.503	0.531	0.532	0.500	6.2
Acetone			0.175	0.154	0.150	0.104	0.111	0.106	0.133	22.6#
2-Propanol			0.020	0.019	0.021	0.019	0.021	0.019	0.020	5.1
Iodomethane (Methyl Iodide)			0.090	0.132	0.213	0.292	0.322	0.311	0.227	43.3#
Carbon Disulfide	2.032	1.818	1.814	1.782	1.826	1.764	1.810	1.769	1.827	4.7
Acetonitrile			0.034	0.027	0.033	0.029	0.031	0.024	0.030	13.4
Allyl Chloride	0.321	0.294	0.291	0.312	0.338	0.308	0.343	0.340	0.318	6.4
Methyl Acetate			0.414	0.399	0.411	0.372	0.384	0.371	0.392	4.8
Methylene Chloride	0.813	0.615	0.575	0.567	0.622	0.567	0.588	0.590	0.617	13.3
tert-Butyl Alcohol		0.028	0.029	0.028	0.031	0.026	0.029	0.028	0.028	5.4
Acrylonitrile	0.141	0.136	0.141	0.149	0.157	0.137	0.150	0.149	0.145	5.0
Methyl tert-Butyl Ether	1.197	1.101	1.159	1.181	1.302	1.165	1.249	1.240	1.199	5.2
trans-1,2-Dichloroethene	0.648	0.512	0.565	0.551	0.589	0.572	0.602	0.617	0.582	7.2
1,1-Dichloroethane	1.230	1.188	1.199	1.188	1.294	1.202	1.239	1.225	1.221	2.9
Diisopropyl Ether	2.783	2.580	2.627	2.657	2.646	2.649	2.823	2.584	2.669	3.3
Vinyl Acetate		0.093	0.075	0.079	0.073	0.069	0.073	0.074	0.077	9.9
2-Chloro-1,3-butadiene	1.062	1.019	1.045	1.071	1.100	1.081	1.136	1.169	1.085	4.5
ETBE	1.661	1.732	1.711	1.784	1.829	1.772	1.898	1.866	1.782	4.5
2,2-Dichloropropane	1.031	0.794	0.831	0.808	0.937	0.835	0.844	0.816	0.862	9.4
2-Butanone (MEK)			0.260	0.216	0.228	0.200	0.206	0.204	0.219	10.2
cis-1,2-Dichloroethene	0.616	0.593	0.580	0.585	0.651	0.598	0.641	0.648	0.614	4.7
Propionitrile	0.048	0.048	0.045	0.048	0.050	0.045	0.047	0.048	0.048	3.7
Methacrylonitrile	0.157	0.154	0.124	0.129	0.154	0.131	0.144	0.143	0.142	9.0
Bromochloromethane	0.261	0.226	0.216	0.235	0.254	0.224	0.231	0.231	0.235	6.4
Chloroform	0.998	0.972	0.981	1.000	1.088	0.985	1.017	1.004	1.006	3.6
Tetrahydrofuran				0.127	0.138	0.108	0.120	0.120	0.123	9.0

Initial Calibration - Detailed Report

Calibration ID: CAL777
Method ID: MJ164

Instrument ID: MS #8
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	6361	6362	6363	6364	6365	6366	6367	6368		
1,1,1-Trichloroethane (TCA)	0.809	0.797	0.800	0.787	0.886	0.813	0.829	0.819	0.817	3.7
Dibromofluoromethane			0.251	0.292	0.308	0.306	0.313	0.322	0.299	8.5
Cyclohexane	0.558	0.571	0.598	0.583	0.624	0.627	0.695	0.665	0.615	7.7
Carbon Tetrachloride	0.316	0.312	0.326	0.294	0.334	0.326	0.348	0.349	0.326	5.7
1,1-Dichloropropene	0.448	0.361	0.386	0.397	0.441	0.427	0.445	0.454	0.420	8.2
Isobutyl Alcohol			0.006	0.007	0.008	0.007	0.008	0.007	0.007	10.0
1,2-Dichloroethane-d4			0.266	0.310	0.335	0.320	0.319	0.327	0.313	7.8
Benzene	1.212	1.085	1.111	1.114	1.218	1.178	1.257	1.198	1.172	5.2
1,2-Dichloroethane (EDC)	0.343	0.349	0.342	0.355	0.385	0.337	0.357	0.350	0.352	4.2
TAME	0.672	0.629	0.620	0.658	0.665	0.644	0.708	0.721	0.665	5.4
n-Heptane		0.521	0.505	0.481	0.572	0.564	0.593	0.599	0.548	8.3
Trichloroethene (TCE)	0.297	0.281	0.272	0.263	0.295	0.280	0.290	0.297	0.284	4.5
Methylcyclohexane	0.482	0.459	0.476	0.452	0.501	0.489	0.536	0.512	0.488	5.6
1,2-Dichloropropane	0.369	0.319	0.293	0.317	0.350	0.322	0.341	0.348	0.332	7.2
Methyl Methacrylate	0.140	0.135	0.117	0.119	0.129	0.119	0.128	0.134	0.128	6.7
1,4-Dioxane			0.001	0.001	0.001	0.001	0.001	0.001	0.001	10.2
Dibromomethane	0.143	0.146	0.143	0.137	0.143	0.125	0.134	0.131	0.138	5.3
Bromodichloromethane	0.383	0.343	0.341	0.340	0.366	0.341	0.361	0.366	0.355	4.5
2-Nitropropane			0.064	0.062	0.064	0.059	0.065	0.067	0.063	4.3
2-Chloroethyl Vinyl Ether	0.150	0.135	0.133	0.142	0.142	0.126	0.135	0.137	0.137	5.2
cis-1,3-Dichloropropene	0.444	0.407	0.387	0.421	0.460	0.425	0.458	0.463	0.433	6.4
4-Methyl-2-pentanone (MIBK)			0.260	0.302	0.306	0.261	0.277	0.287	0.282	6.9
Toluene	1.380	1.332	1.338	1.300	1.450	1.377	1.464	1.446	1.386	4.4
trans-1,3-Dichloropropene	0.498	0.396	0.399	0.417	0.463	0.424	0.459	0.475	0.441	8.5
Ethyl Methacrylate	0.392	0.292	0.340	0.308	0.344	0.306	0.344	0.354	0.335	9.6
1,1,2-Trichloroethane	0.196	0.196	0.189	0.187	0.195	0.179	0.193	0.194	0.191	3.2
Toluene-d8			1.055	1.225	1.334	1.338	1.384	1.408	1.291	10.2
4-Bromofluorobenzene			0.387	0.430	0.476	0.480	0.479	0.492	0.458	8.9
Tetrachloroethene (PCE)	0.270	0.268	0.255	0.254	0.297	0.282	0.299	0.316	0.280	8.0
2-Hexanone				0.178	0.191	0.175	0.186	0.188	0.183	3.6
1,3-Dichloropropane	0.462	0.407	0.412	0.419	0.463	0.411	0.445	0.461	0.435	5.8
Dibromochloromethane	0.234	0.243	0.231	0.243	0.263	0.239	0.254	0.260	0.246	4.8
1,2-Dibromoethane (EDB)	0.212	0.207	0.196	0.200	0.225	0.196	0.211	0.213	0.207	4.8
Chlorobenzene	0.855	0.766	0.786	0.798	0.874	0.818	0.855	0.872	0.828	5.0
1,1,1,2-Tetrachloroethane	0.262	0.245	0.249	0.257	0.282	0.264	0.277	0.283	0.265	5.5
Ethylbenzene	1.406	1.306	1.405	1.399	1.573	1.540	1.611	1.553	1.474	7.4
m,p-Xylenes	0.513	0.453	0.512	0.508	0.565	0.557	0.588	0.596	0.537	9.0
o-Xylene	0.504	0.433	0.448	0.490	0.525	0.514	0.545	0.556	0.502	8.7
Styrene	0.769	0.758	0.785	0.806	0.940	0.911	0.972	0.982	0.865	11.0
Bromoform		0.091	0.095	0.102	0.110	0.105	0.114	0.117	0.105	9.3
Isopropylbenzene	1.237	1.191	1.285	1.242	1.420	1.401	1.436	1.468	1.335	8.0
Cyclohexanone		0.016	0.018	0.019	0.024	0.020	0.021	0.019	0.020	13.0
1,1,2,2-Tetrachloroethane	0.612	0.601	0.569	0.588	0.631	0.550	0.585	0.582	0.590	4.3
trans-1,4-Dichloro-2-butene	0.237	0.199	0.160	0.175	0.196	0.173	0.188	0.179	0.189	12.5
1,2,3-Trichloropropane	0.206	0.170	0.158	0.162	0.184	0.152	0.167	0.164	0.170	10.1
n-Propylbenzene	3.915	3.760	3.985	3.942	4.490	4.405	4.592	4.371	4.183	7.5
Bromobenzene	0.678	0.587	0.607	0.625	0.681	0.635	0.698	0.692	0.650	6.5
1,3,5-Trimethylbenzene	2.481	2.428	2.634	2.840	3.154	2.846	3.161	3.072	2.827	10.3
2-Chlorotoluene	2.551	2.279	2.307	2.357	2.507	2.338	2.572	2.483	2.424	4.8
4-Chlorotoluene	2.582	2.558	2.557	2.643	2.991	2.880	2.840	3.135	2.773	8.0

Initial Calibration - Detailed Report

Calibration ID: CAL777
Method ID: MJ164

Instrument ID: MS #8
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	6361	6362	6363	6364	6365	6366	6367	6368		
tert-Butylbenzene	2.379	2.177	2.261	2.203	2.524	2.418	2.537	2.488	2.373	6.1
1,2,4-Trimethylbenzene	2.559	2.359	2.732	2.634	2.879	2.783	2.951	2.899	2.725	7.3
sec-Butylbenzene	3.307	3.161	3.351	3.160	3.785	3.603	3.753	3.661	3.473	7.4
4-Isopropyltoluene	2.661	2.711	2.844	2.709	3.187	3.095	3.191	3.168	2.946	8.0
1,3-Dichlorobenzene	1.221	1.112	1.210	1.195	1.328	1.245	1.327	1.341	1.247	6.4
1,4-Dichlorobenzene	1.408	1.116	1.296	1.185	1.353	1.251	1.333	1.338	1.285	7.5
n-Butylbenzene	2.395	2.384	2.540	2.448	2.914	2.835	2.953	2.967	2.679	9.8
1,2-Dichlorobenzene	1.143	0.920	1.095	1.122	1.211	1.081	1.179	1.192	1.118	8.3
1,2-Dibromo-3-chloropropane (DBC)		0.067	0.075	0.069	0.080	0.070	0.078	0.077	0.073	6.6
1,2,4-Trichlorobenzene	0.589	0.511	0.530	0.544	0.582	0.582	0.647	0.694	0.585	10.4
Hexachlorobutadiene	0.277	0.281	0.310	0.280	0.330	0.316	0.325	0.344	0.308	8.4
Naphthalene	1.231	1.206	1.234	1.303	1.426	1.350	1.498	1.539	1.348	9.5
1,2,3-Trichlorobenzene	0.529	0.393	0.453	0.461	0.513	0.503	0.549	0.584	0.498	12.1

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

Initial Calibration - Detailed Report

Calibration ID: CAL777
Method ID: MJ164

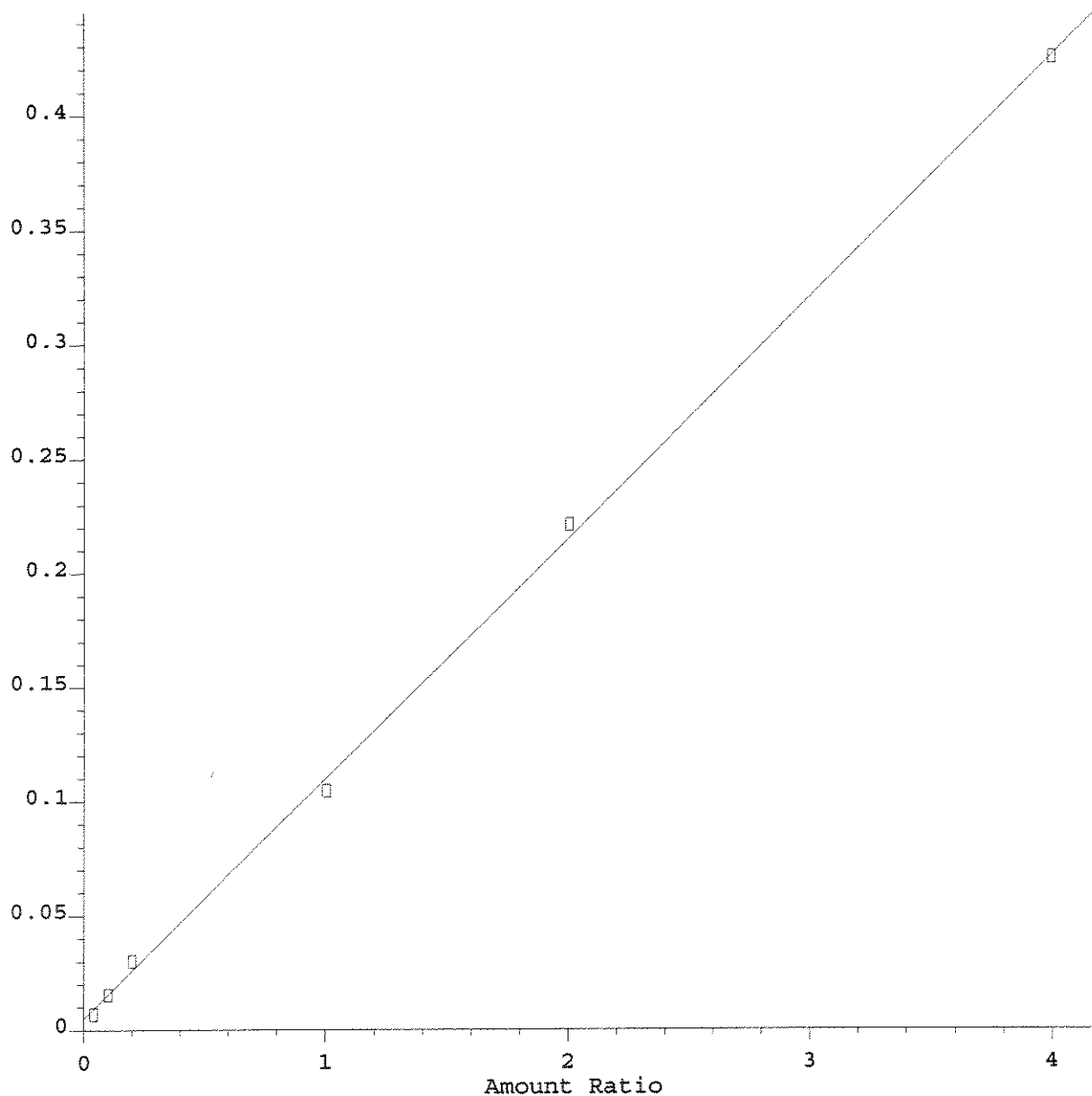
Instrument ID: MS #8
Column Name: MS
Calibration Fit: Linear

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
6361	J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D	06/02/2008 14:22	06/03/2008 09:46	06/10/2008 10:07
6362	J:\ACQUDATA\MSVOA8\DATA\060208\Z2137.D	06/02/2008 14:50	06/03/2008 09:54	06/10/2008 10:07
6363	J:\ACQUDATA\MSVOA8\DATA\060208\Z2138.D	06/02/2008 15:18	06/03/2008 10:00	06/10/2008 10:07
6364	J:\ACQUDATA\MSVOA8\DATA\060208\Z2139.D	06/02/2008 15:46	06/03/2008 09:34	06/10/2008 10:07
6365	J:\ACQUDATA\MSVOA8\DATA\060208\Z2140.D	06/02/2008 16:14	06/03/2008 10:19	06/10/2008 10:07
6366	J:\ACQUDATA\MSVOA8\DATA\060208\Z2141.D	06/02/2008 16:42	06/03/2008 10:22	06/10/2008 10:07
6367	J:\ACQUDATA\MSVOA8\DATA\060208\Z2142.D	06/02/2008 17:10	06/03/2008 09:34	06/10/2008 10:07
6368	J:\ACQUDATA\MSVOA8\DATA\060208\Z2143.D	06/02/2008 17:38	06/03/2008 10:30	06/10/2008 10:07

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
Acetone		0.105	0.005	0.9993	0.133
Iodomethane (Methyl Iodide)		0.317	-0.015	0.9993	0.227

Acetone

Response Ratio

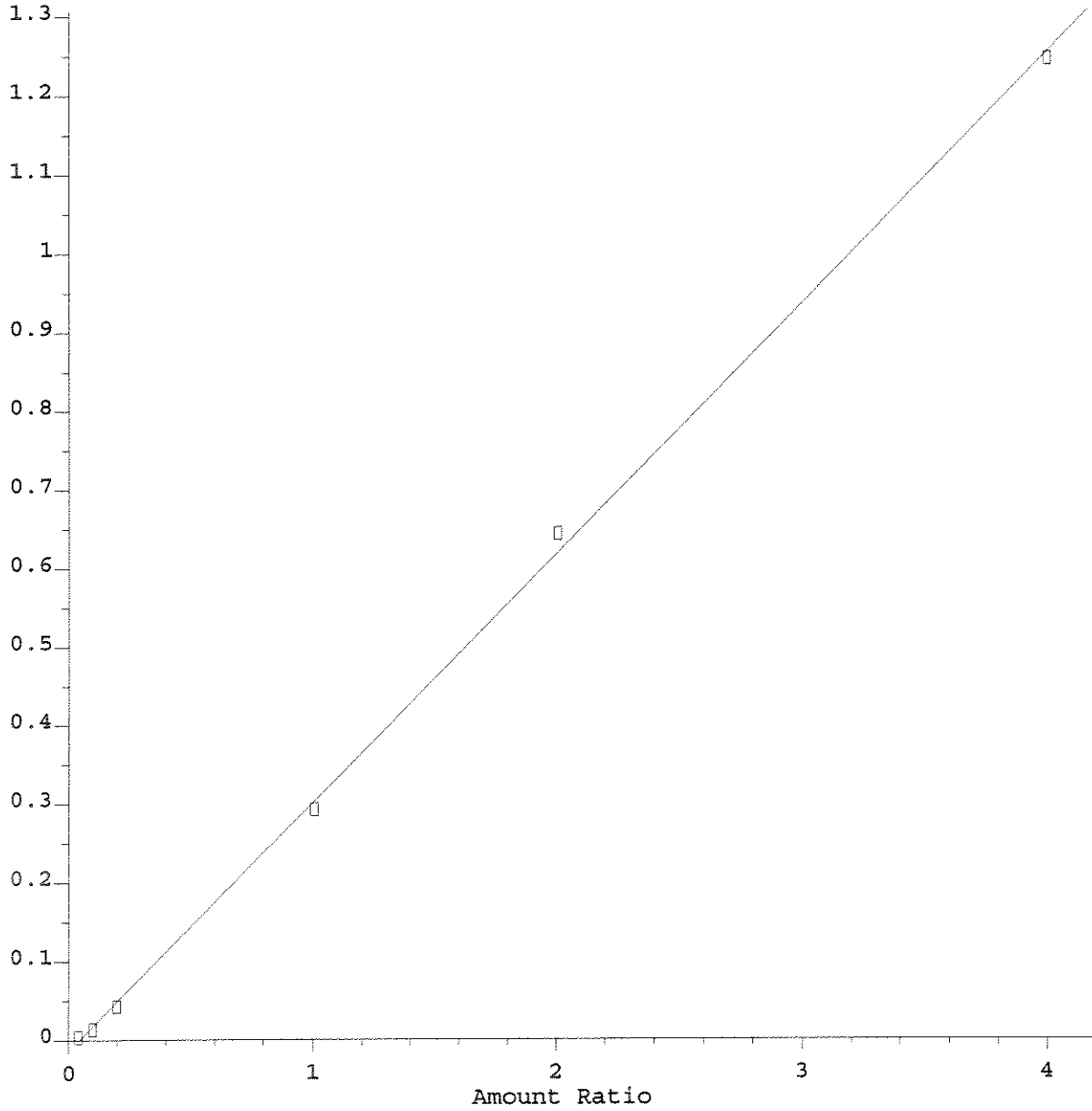


Resp Ratio = 1.05e-001 * Amt + 4.97e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: J:\ACQUDATA\MSVOA8\METHODS\W060208.M
Calibration Table Last Updated: Tue Jun 03 10:59:27 2008

Iodomethane

Response Ratio



Resp Ratio = 3.17e-001 * Amt - 1.46e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: J:\ACQUDATA\MSVOA8\METHODS\W060208.M
Calibration Table Last Updated: Tue Jun 03 10:59:27 2008

RJH 4/3/08

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D
 Acq On : 2 Jun 2008 2:22 pm
 Sample : 0.5ppb
 Misc : 8260B I-CAL 10mL - MS#8
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:46 2008

Vial: 8
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	622272	50.00	ppb	0.01
42) 1,4 - Difluorobenzene	3.64	114	1248855	50.00	ppb	0.01
63) d5 - Chlorobenzene	5.96	117	1007544	50.00	ppb	0.01
85) d4 - Dichlorobenzene	8.15	152	365539	50.00	ppb	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) surr4,Dibrflmethane	3.12	113	376350	46.25	ppb	0.00
Spiked Amount				50.000		
Recovery					=	92.50%
48) surr1,1,2-Dicethane	3.35	65	394841	43.55	ppb	0.00
Spiked Amount				50.000		
Recovery					=	87.10%
69) surr3,Toluene-d8	4.74	98	1292767	47.14	ppb	0.00
Spiked Amount				50.000		
Recovery					=	94.28%
70) surr2,bfb	7.03	95	461536	42.31	ppb	0.00
Spiked Amount				50.000		
Recovery					=	84.62%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.04	85	3073	0.37	ppb	# 90
4) Chloromethane	1.14	50	5512	0.48	ppb	94
5) Vinyl Chloride	1.20	62	4154	0.41	ppb	# 83
6) Bromomethane	1.38	94	3895	0.53	ppb	# 79
7) Chloroethane	1.43	64	3743	0.54	ppb	97
8) FREON 21	1.52	67	7996	0.41	ppb	89
9) Trichlorofluoromethane	1.56	101	4929	0.36	ppb	# 82
10) Diethyl Ether	1.71	59	2797	0.47	ppb	99
11) FREON 123A	1.69	85	1827	0.39	ppb	82
12) FREON 123	1.72	85	4061	0.48	ppb	83
13) Acrolein	1.78	56	2269	2.95	ppb	88
14) FREON 113	1.83	85	1368	0.35	ppb	92
15) 1,1-Dicethene	1.84	96	3045	0.40	ppb	# 79
16) Acetone	1.85	43	2365	1.47	ppb	# 74
17) 2-Propanol	1.91	45	2611	10.00	ppb	# 79
19) Carbon Disulfide	1.98	76	12643	0.49	ppb	98
21) Allyl Chloride	2.02	76	1996	0.43	ppb	63
22) Methyl Acetate	2.03	43	3978	0.63	ppb	97
23) Methylene Chloride	2.09	84	5061	0.56	ppb	92
24) TBA	2.13	59	3945	10.43	ppb	# 84
25) Acrylonitrile	2.22	53	4399	2.28	ppb	88
26) Methyl-t-Butyl Ether	2.24	73	7449	0.41	ppb	# 88
27) trans-1,2-Dichloroethene	2.24	96	4030	0.48	ppb	# 78
28) 1,1-Dicethane	2.48	63	7657	0.42	ppb	93
29) DIPE	2.51	45	17319	0.42	ppb	95
30) Vinyl Acetate	2.49	86	626m	0.72	ppb	
31) 2-Chloro-1,3-butadiene	2.54	53	6608	0.35	ppb	100
32) ETBE	2.72	59	10334	0.38	ppb	# 91
33) 2,2-Dichloropropane	2.83	77	6418	0.43	ppb	98
34) 2-Butanone	2.83	43	2041	0.69	ppb	93
35) cis-1,2-Dichloroethene	2.83	96	3836	0.43	ppb	93
36) Propionitrile	2.87	54	1493	2.32	ppb	# 84
37) Methacrylonitrile	2.96	67	980	0.49	ppb	71
38) Bromochloromethane	2.98	128	1624	0.49	ppb	# 46
39) Chloroform	3.02	83	6212	0.37	ppb	95

-RJH 4/3

RJH 6/3/08

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D
 Acq On : 2 Jun 2008 2:22 pm
 Sample : 0.5ppb
 Misc : 8260B I-CAL 10mL - MS#8
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:46 2008

Vial: 8
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tetrahydrofuran	3.01	42	1331	0.83	ppb	99
41) 1,1,1-Trichloroethane	3.16	97	5033	0.34	ppb #	1
44) cyclohexane	3.20	56	6963	0.36	ppb #	91
45) Carbontetrachloride	3.26	117	3941	0.33	ppb	90
46) 1,1-Dichloropropene	3.26	75	5589	0.42	ppb #	91
47) Iso-Butyl Alcohol	3.29	43	2257	11.70	ppb	76
49) Benzene	3.40	78	15139	0.44	ppb	94
50) 1,2-Dichloroethane	3.40	62	4288	0.34	ppb #	90
51) TAME	3.46	73	8391	0.42	ppb	98
52) N-Heptane	3.55	43	7209	0.45	ppb	93
53) Trichloroethene	3.83	95	3709	0.41	ppb #	86
54) methylcyclohexane	3.98	55	6022	0.39	ppb	95
55) 1,2-Diclpropane	3.99	63	4605	0.48	ppb #	74
56) Methyl Methacrylate	4.05	69	1753	0.46	ppb	78
58) Dibromomethane	4.08	93	1786	0.40	ppb #	80
59) Bromodichloromethane	4.18	83	4784	0.40	ppb #	86
60) 2-Nitropropane	4.35	43	2115	0.92	ppb #	60
61) 2-Chloroethylvinyl Ether	4.40	63	1868	0.47	ppb #	84
62) cis-1,3-Dichloropropene	4.52	75	5549	0.41	ppb #	91
64) 4-Methyl-2-Pentanone	4.64	43	3470	0.53	ppb	93
65) Toluene	4.80	91	13902	0.40	ppb	94
66) trans-1,3-Dichloropropene	4.96	75	5018m	0.46	ppb	- RJH 4/3
67) Ethyl Methacrylate	5.03	69	3949	0.51	ppb #	84
68) 1,1,2-Trichloroethane	5.11	83	1975	0.45	ppb	93
71) Tetrachloroethene	5.25	166	2724	0.40	ppb	97
72) 2-Hexanone	5.31	43	2893	0.70	ppb #	75
73) 1,3-Dichloropropane	5.26	76	4657	0.46	ppb #	77
74) Dibromochloromethane	5.45	129	2356	0.41	ppb	91
75) 1,2-Dibromoethane	5.55	107	2131	0.45	ppb #	75
76) Chlorobenzene	5.98	112	8614	0.44	ppb	94
77) 1,1,1,2-Tetrachloroethane	6.05	131	2644	0.42	ppb #	34
78) Ethylbenzene	6.07	91	14169	0.38	ppb	98
79) (m+p)Xylene	6.18	106	10347	0.82	ppb	100
80) o-Xylene	6.54	106	5076	0.43	ppb	93
81) Styrene	6.56	104	7750	0.35	ppb	91
82) Bromoform	6.73	173	982m	0.36	ppb	
83) Isopropylbenzene	6.88	105	12464	0.38	ppb	98
84) Cyclohexanone	6.99	55	3199	13.42	ppb	89
86) 1,1,2,2-Tetrachloroethane	7.16	83	2238	0.46	ppb	89
87) Trans-1,4-Dichloro-2-buten	7.22	53	868m	0.47	ppb	
88) 1,2,3-Trichloropropane	7.20	110	754	0.48	ppb	90
89) n-Propylbenzene	7.27	91	14312	0.38	ppb	97
90) Bromobenzene	7.17	156	2477	0.42	ppb #	87
92) 1,3,5-Trimethylbenzene	7.44	105	9069	0.36	ppb	93
93) 2-Chlorotoluene	7.36	91	9324	0.41	ppb	94
94) 4-Chlorotoluene	7.46	91	9439	0.34	ppb	91
95) tert-Butylbenzene	7.75	119	8696	0.42	ppb	92
96) 1,2,4-Trimethylbenzene	7.81	105	9355	0.38	ppb	97
97) sec-Butylbenzene	7.97	105	12088	0.41	ppb	97
98) p-Isopropyltoluene	8.11	119	9727	0.39	ppb #	88

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

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D Vial: 8
 Acq On : 2 Jun 2008 2:22 pm Operator: Herring
 Sample : 0.5ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:46 2008 Quant Results File: W060208.RES

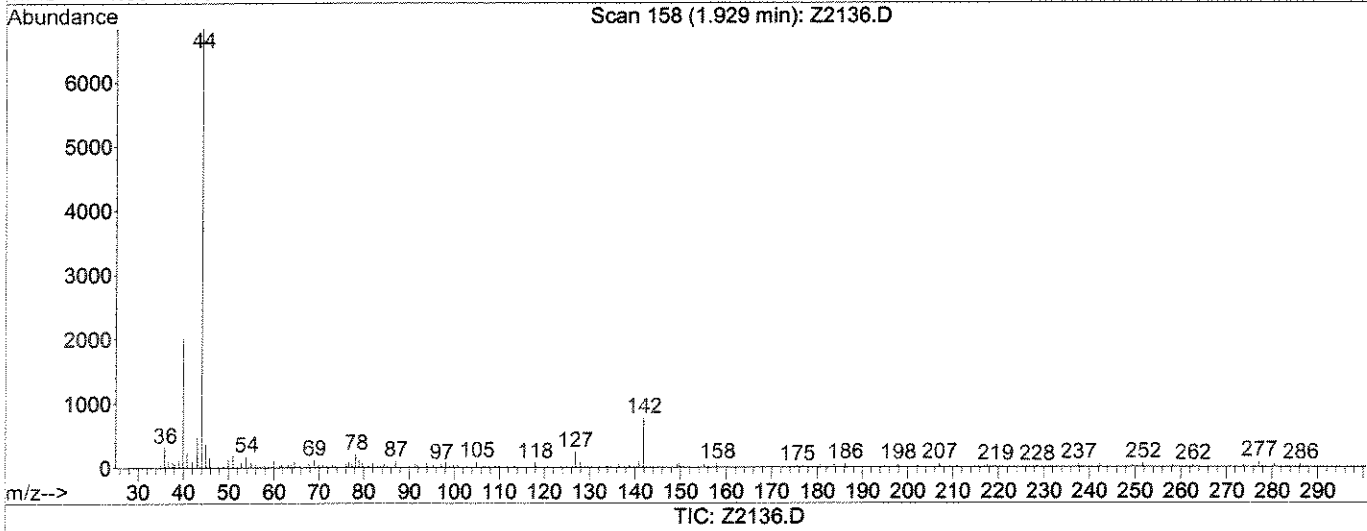
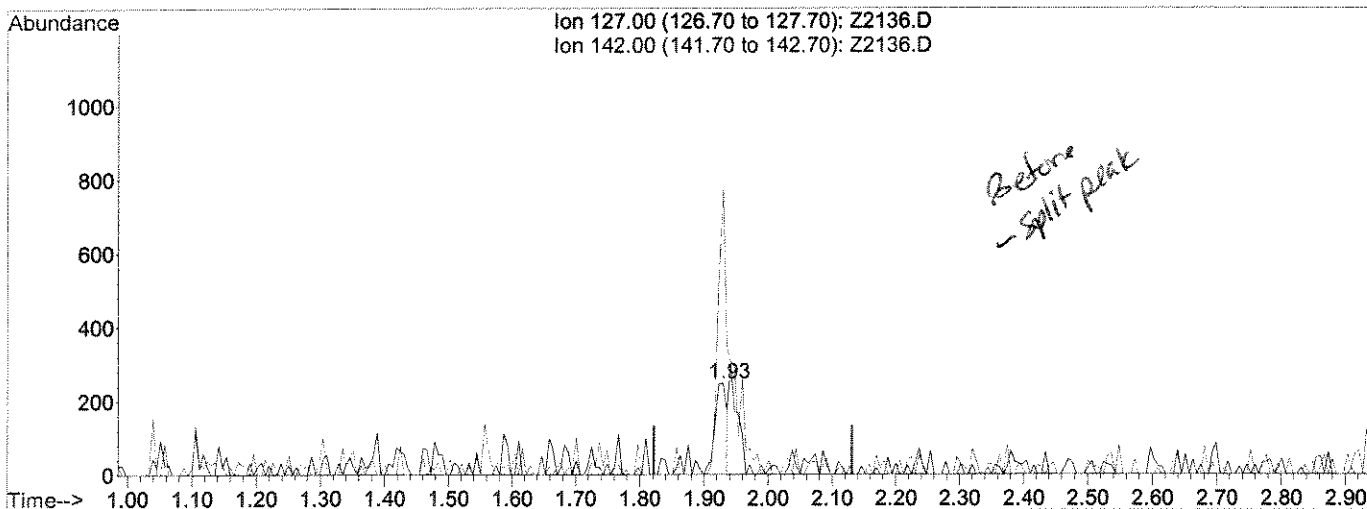
Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99) 1,3-Dclbenz	8.09	146	4463	0.40	ppb #	86
100) 1,4-Dclbenz	8.16	146	5147	0.45	ppb #	70
102) n-Butylbenzene	8.52	91	8753	0.38	ppb	98
103) 1,2-Dclbenz	8.54	146	4179	0.43	ppb	97
104) 1,2-Dibromo-3-chloropropan	9.30	157	375	0.62	ppb #	39
106) 1,2,4-Tcbenzene	10.14	180	2152	0.39	ppb	99
107) Hexachlorobu	10.30	225	1013	0.38	ppb	92
108) Naphthalen	10.38	128	4498	0.39	ppb	100
109) 1,2,3-Tclbenzene	10.60	180	1932	0.41	ppb #	78

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D Vial: 8
 Acq On : 2 Jun 2008 2:22 pm Operator: Herring
 Sample : 0.5ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:33 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(18) Iodomethane

1.93min 0.06ppb

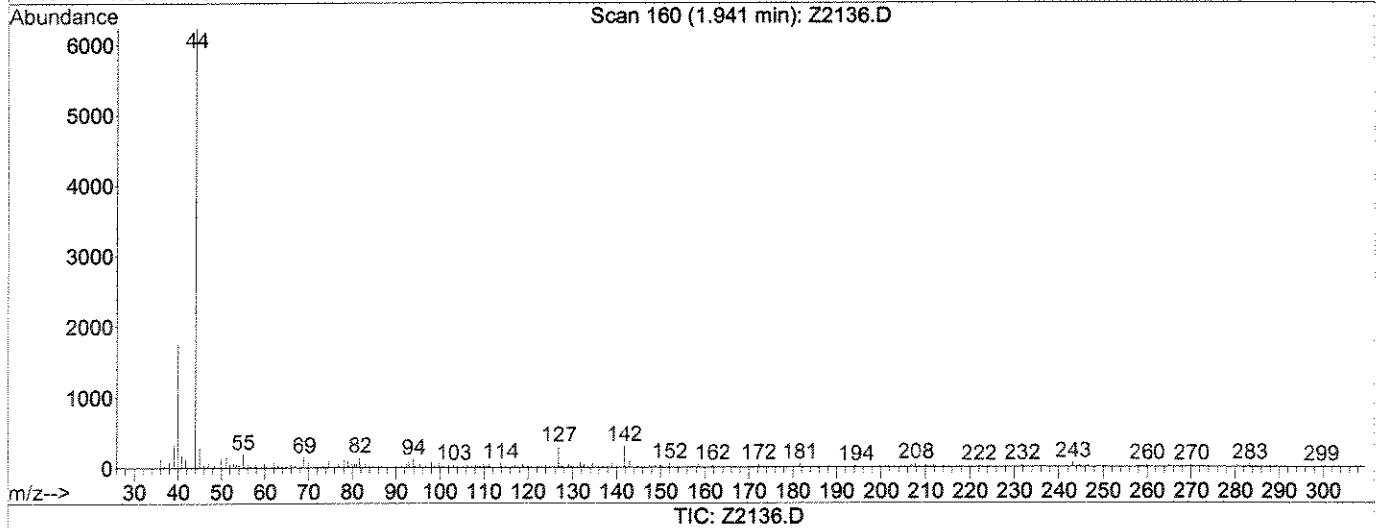
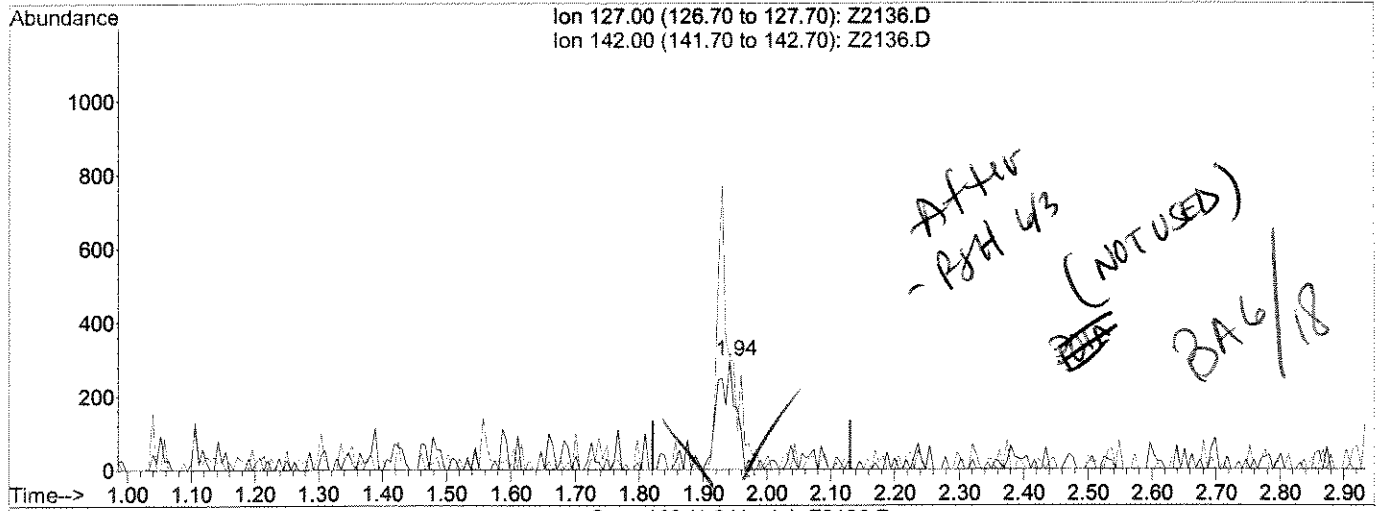
response 314

Ion	Exp%	Act%
127.00	100	100
142.00	171.50	310.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D Vial: 8
Acq On : 2 Jun 2008 2:22 pm Operator: Herring
Sample : 0.5ppb Inst : MS #8
Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 3 9:40 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa
Last Update : Tue Jun 03 09:30:40 2008
Response via : Multiple Level Calibration



(18) Iodomethane

1.94min 0.10ppb m

response 581

Ion	Exp%	Act%
127.00	100	100
142.00	171.50	103.37
0.00	0.00	0.00
0.00	0.00	0.00

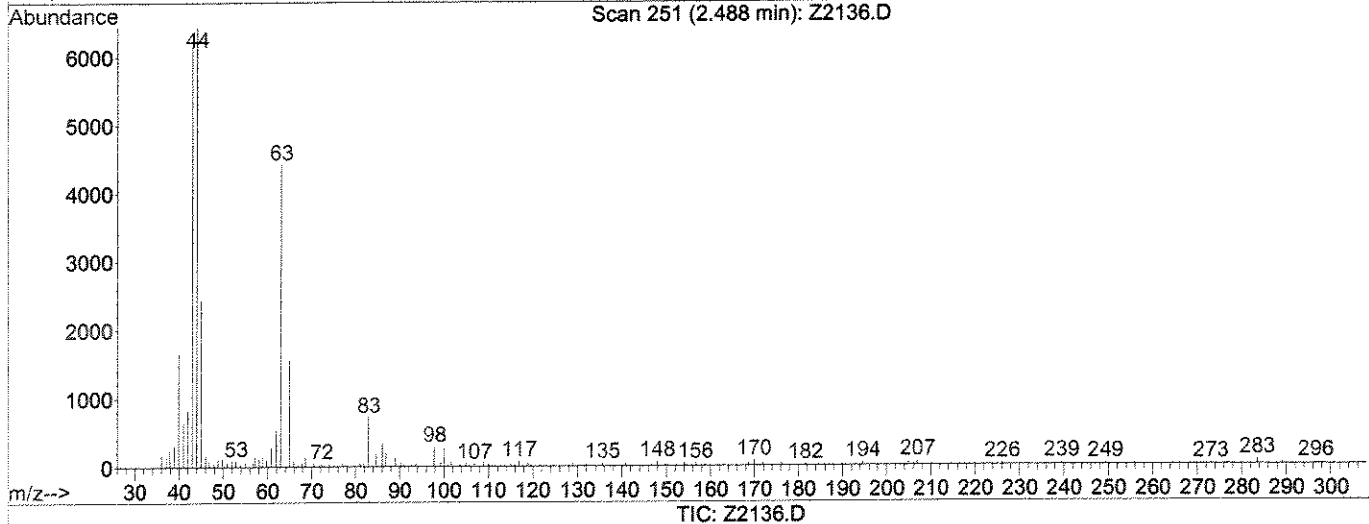
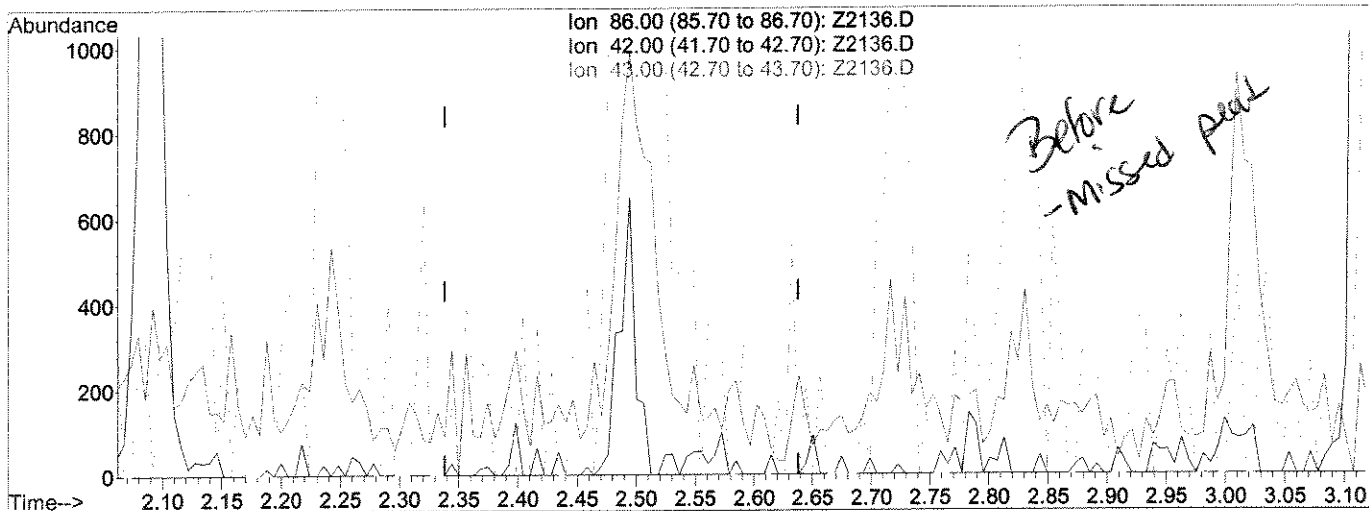
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D
Acq On : 2 Jun 2008 2:22 pm
Sample : 0.5ppb
Misc : 8260B I-CAL 10mL - MS#8
MS Integration Params: RTEINT.P
Quant Time: Jun 3 9:40 2008

Vial: 8
Operator: Herring
Inst : MS #8
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa
Last Update : Tue Jun 03 09:30:40 2008
Response via : Multiple Level Calibration



(30) Vinyl Acetate

2.49min 0.00ppb

response 0

Ion	Exp%	Act%
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86.00	100	0.00
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42.00	246.50	0.00#
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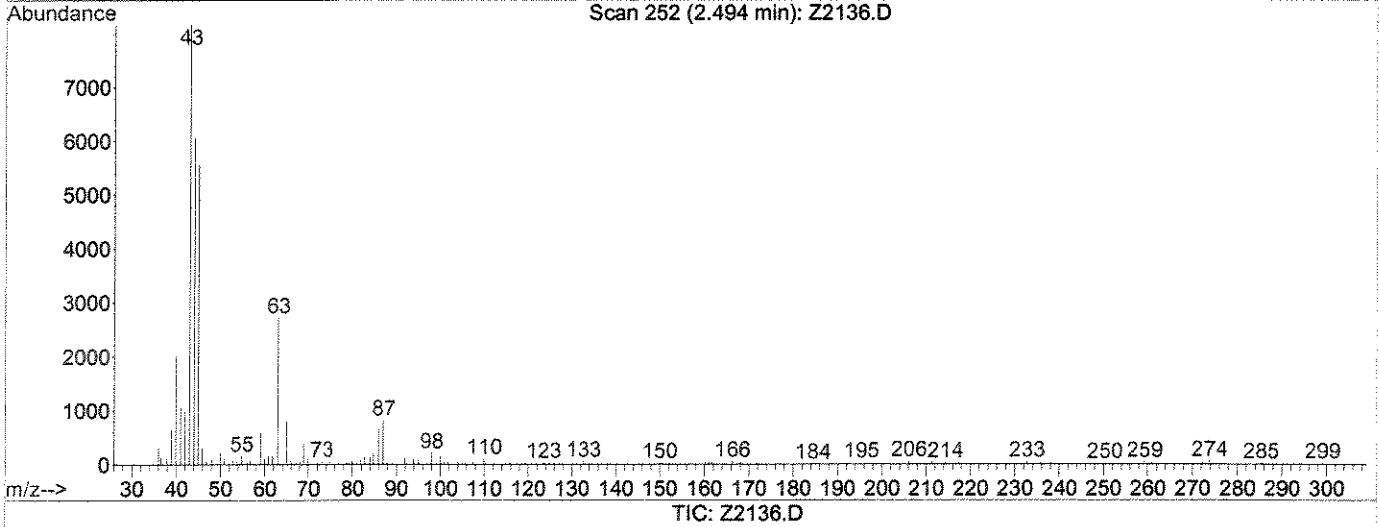
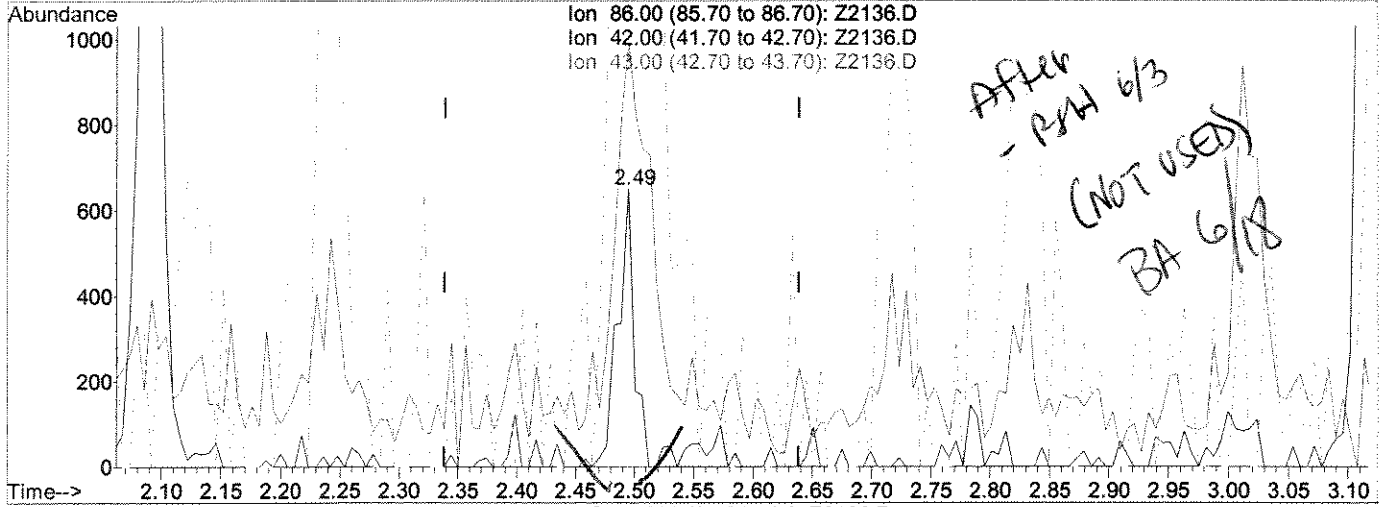
43.00	2565.80	0.00#
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D Vial: 8
 Acq On : 2 Jun 2008 2:22 pm Operator: Herring
 Sample : 0.5ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:41 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(30) Vinyl Acetate

2.49min 0.72ppb m

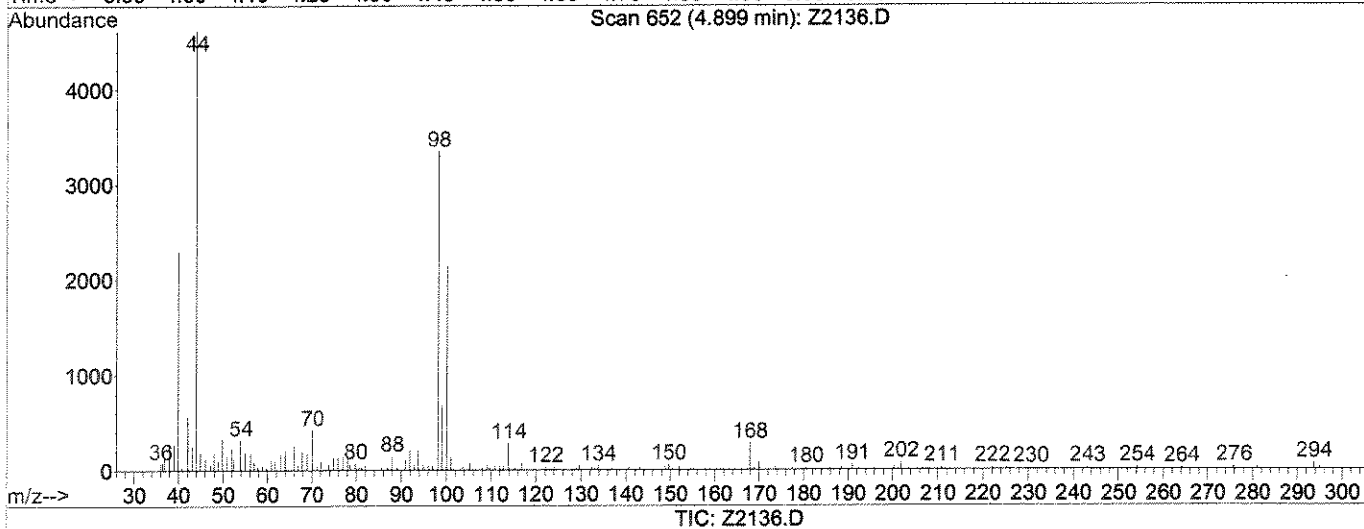
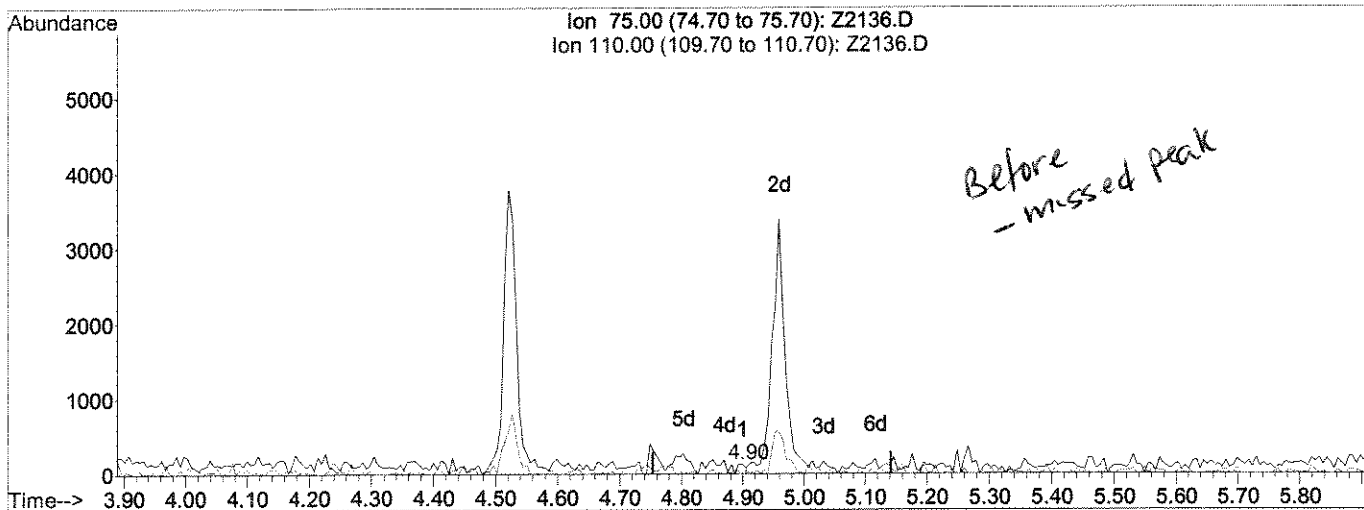
response 626

Ion	Exp%	Act%
86.00	100	100
42.00	246.50	152.15#
43.00	2565.60	1256.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOAS\DATA\060208\Z2136.D Vial: 8
 Acq On : 2 Jun 2008 2:22 pm Operator: Herring
 Sample : 0.5ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:43 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOAS\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(66) trans-1,3-Dichloropropene

4.90min 0.01ppb

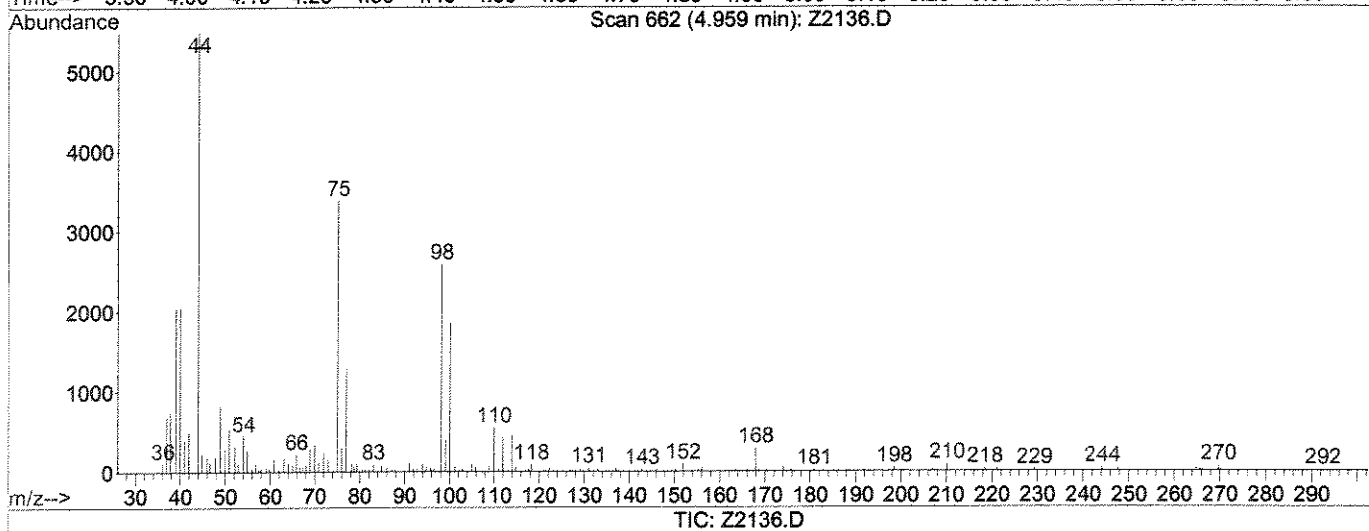
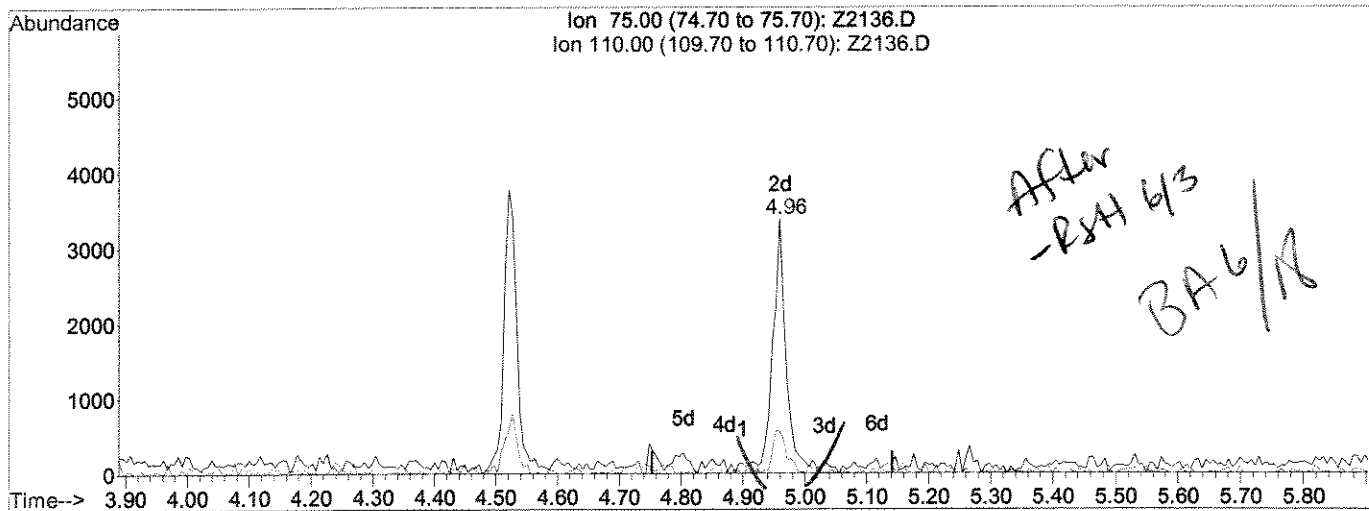
response 121

Ion	Exp%	Act%
75.00	100	100
110.00	20.90	17.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D Vial: 8
 Acq On : 2 Jun 2008 2:22 pm Operator: Herring
 Sample : 0.5ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:44 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(66) trans-1,3-Dichloropropene

4.96min 0.46ppb m

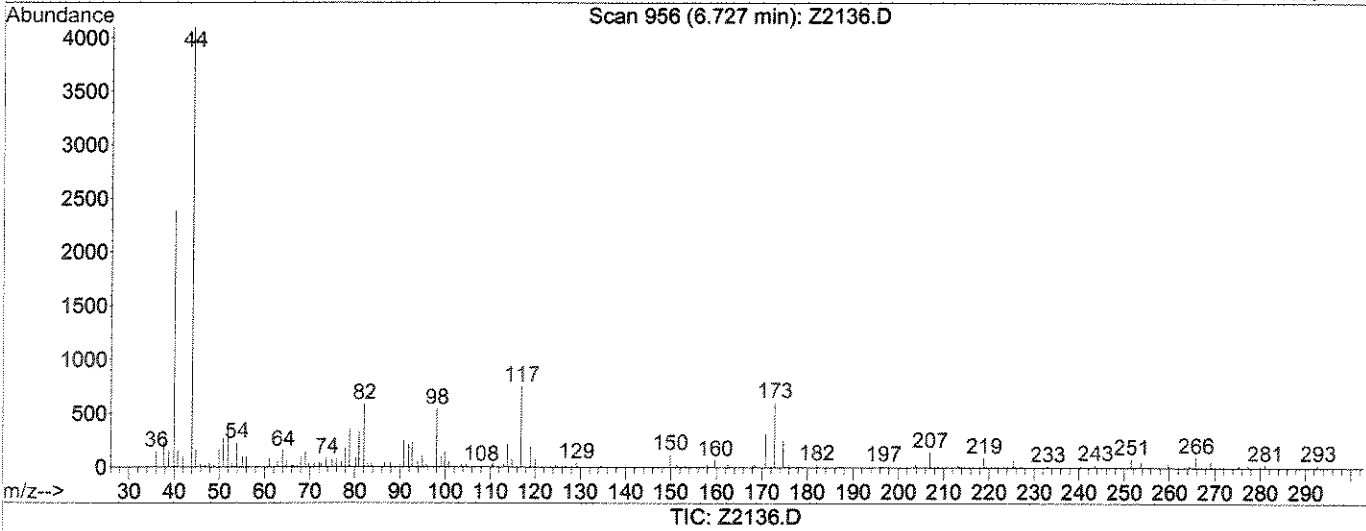
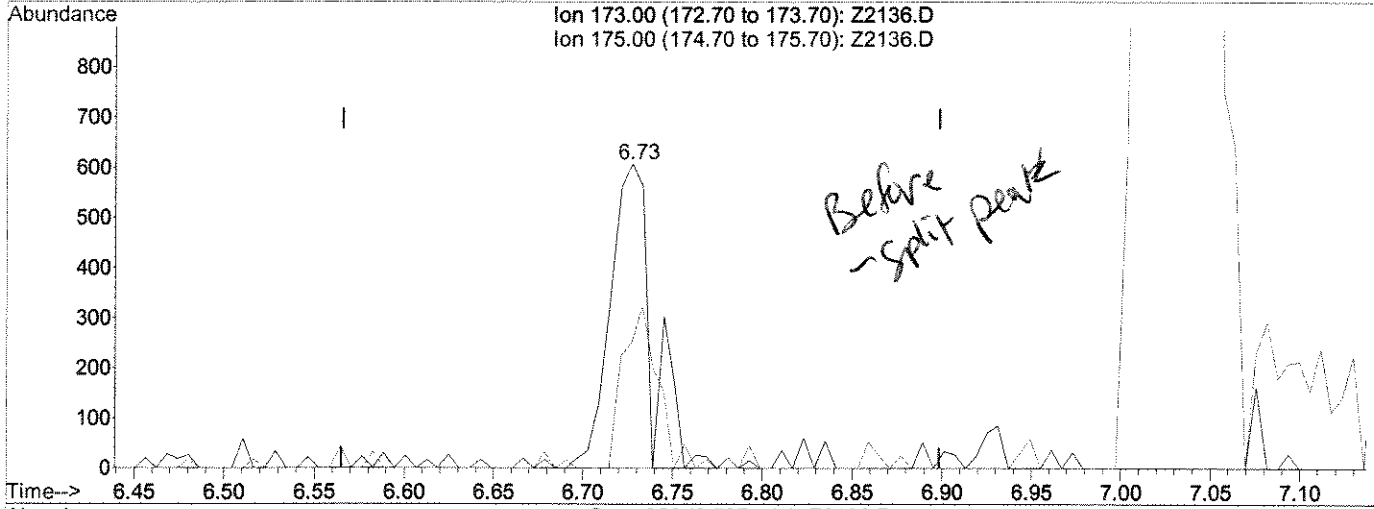
response 5018

Ion	Exp%	Act%
75.00	100	100
110.00	20.90	16.45#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D Vial: 8
 Acq On : 2 Jun 2008 2:22 pm Operator: Herring
 Sample : 0.5ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:44 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



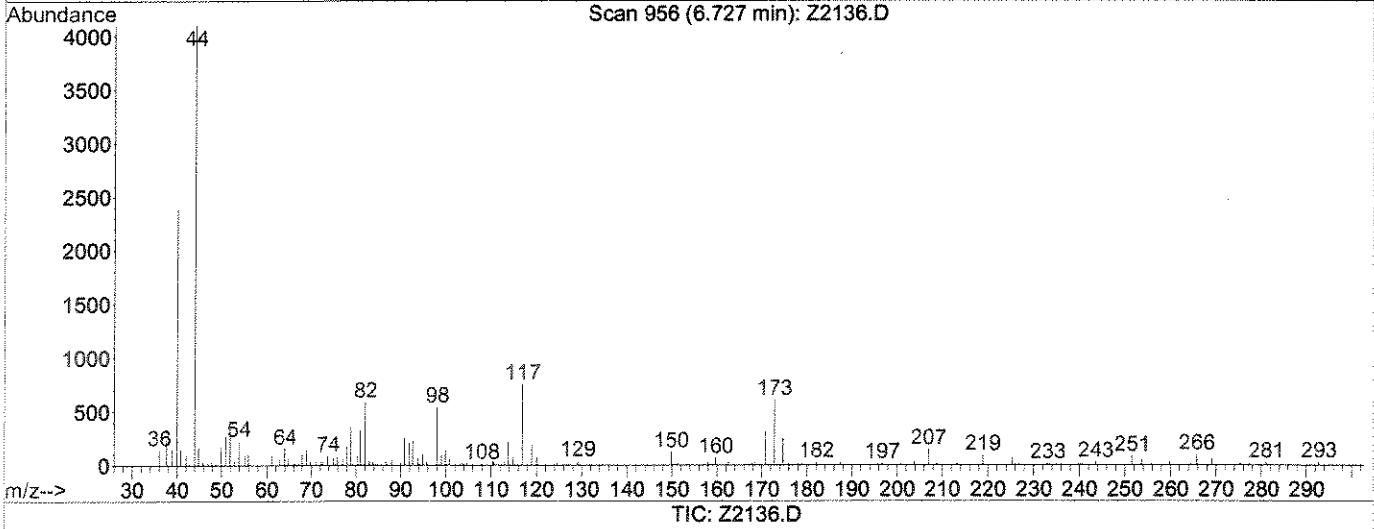
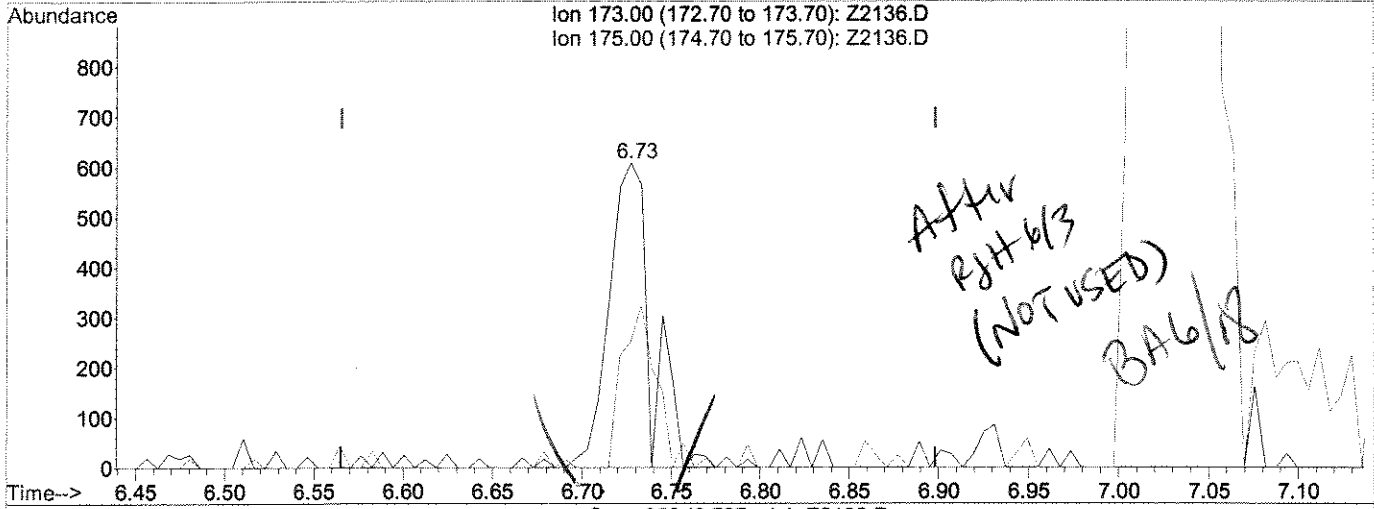
(82) Bromoform (p)
 6.73min 0.29ppb
 response 811

Ion	Exp%	Act%
173.00	100	100
175.00	52.30	41.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D Vial: 8
 Acq On : 2 Jun 2008 2:22 pm Operator: Herring
 Sample : 0.5ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:45 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(82) Bromoform (p)

6.73min 0.36ppb m

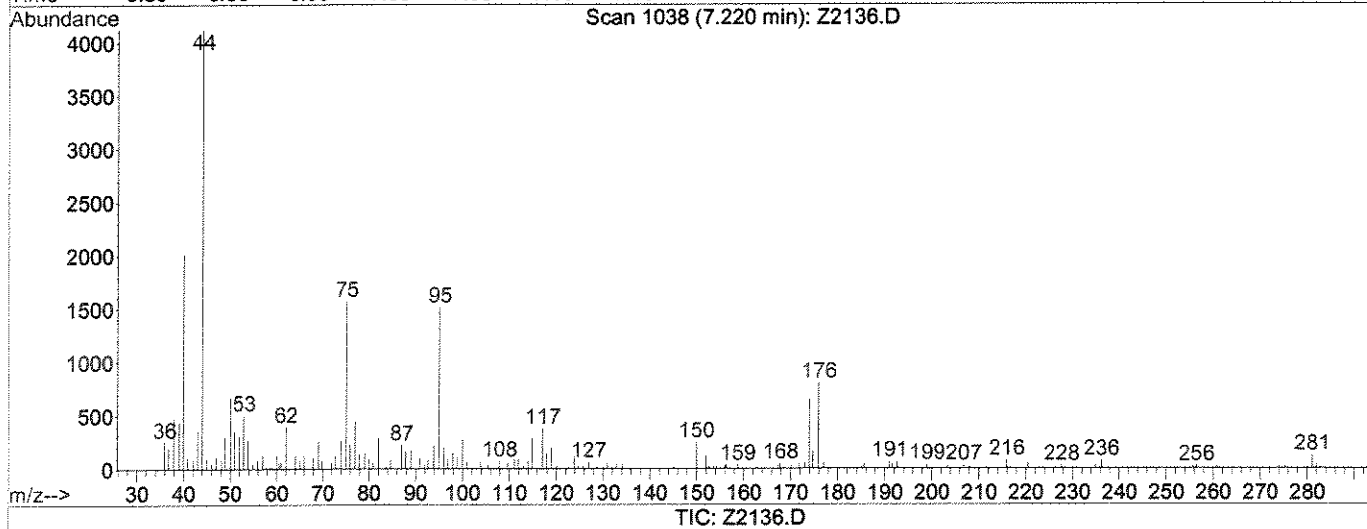
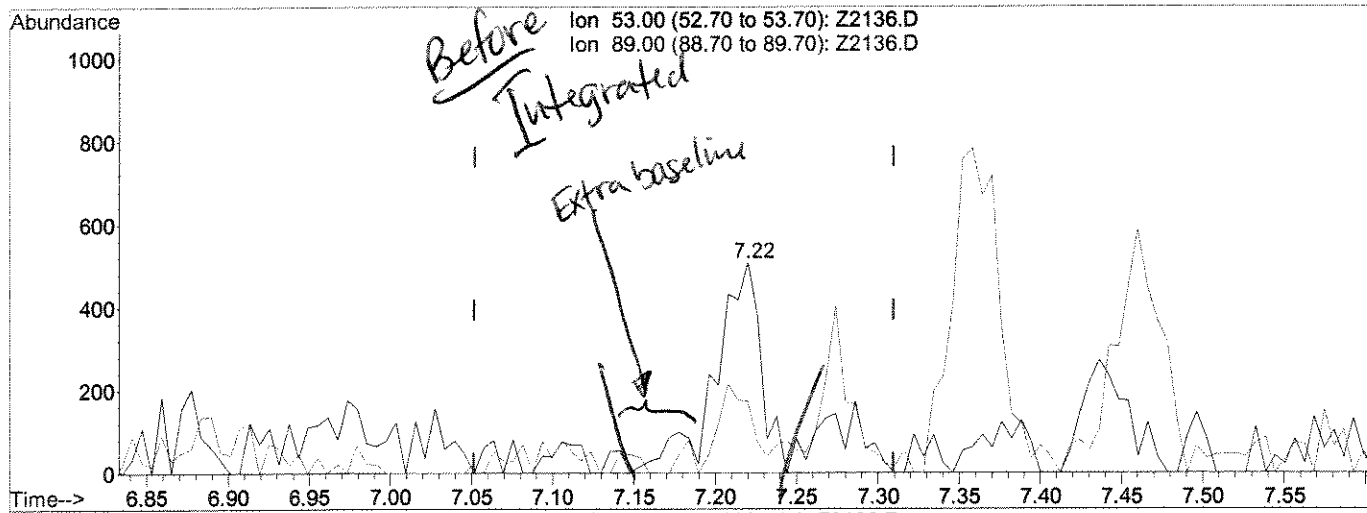
response 982

Ion	Exp%	Act%
173.00	100	100
175.00	52.30	41.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D Vial: 8
 Acq On : 2 Jun 2008 2:22 pm Operator: Herring
 Sample : 0.5ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:45 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(87) Trans-1,4-Dichloro-2-butene

7.22min 0.54ppb

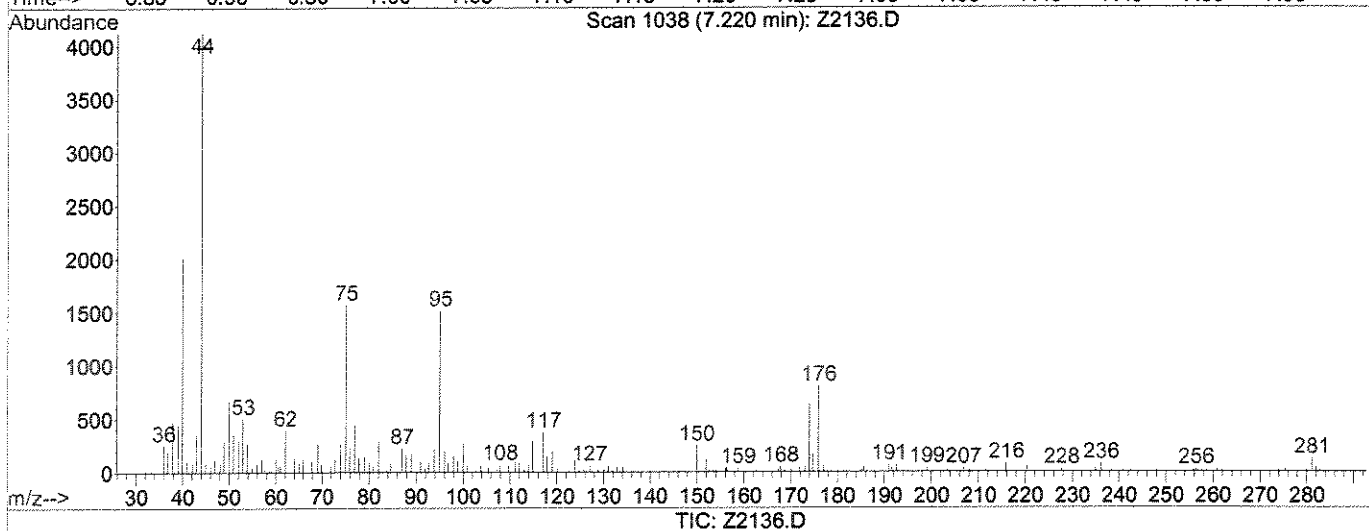
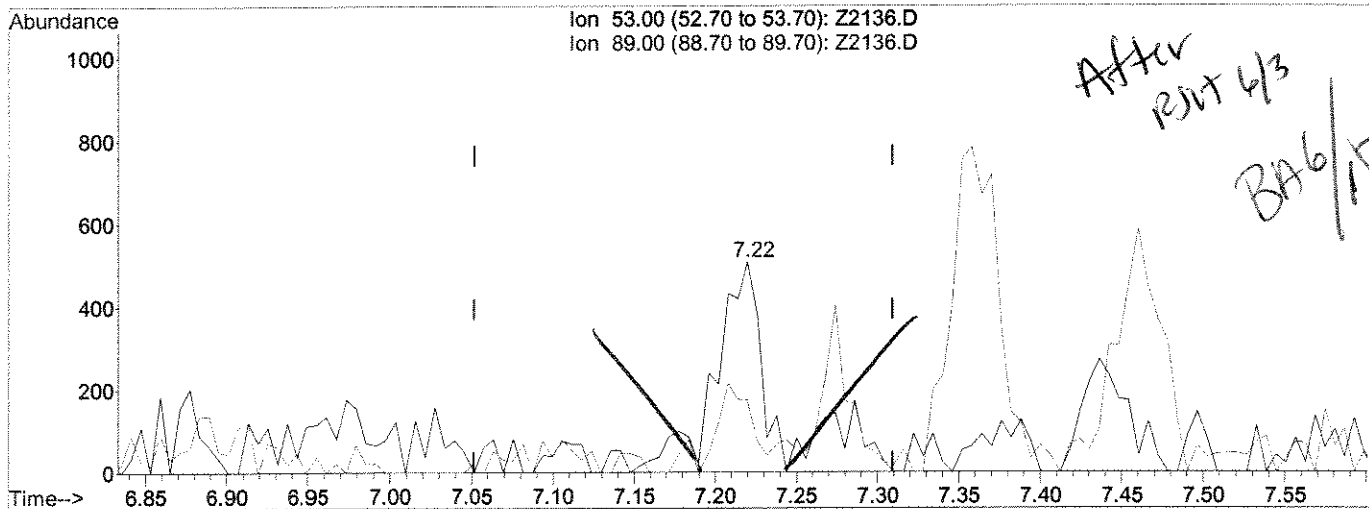
response 1003

Ion	Exp%	Act%
53.00	100	100
89.00	52.20	34.25#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2136.D Vial: 8
 Acq On : 2 Jun 2008 2:22 pm Operator: Herring
 Sample : 0.5ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:46 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(87) Trans-1,4-Dichloro-2-butene

7.22min 0.47ppb m

response 868

Ion	Exp%	Act%
53.00	100	100
89.00	52.20	34.25#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2137.D
 Acq On : 2 Jun 2008 2:50 pm
 Sample : 1.0ppb
 Misc : 8260B I-CAL 10mL - MS#8
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:54 2008

Vial: 9
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	683717	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1373950	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.96	117	1106004	50.00	ppb	0.01
85) d4 - Dichlorobenzene	8.15	152	413932	50.00	ppb	0.01

System Monitoring Compounds

43) surr4,Dibrflmethane	3.12	113	423711	47.33	ppb	0.00
Spiked Amount	50.000		Recovery	=	94.66%	
48) surr1,1,2-Dicethane	3.34	65	455286	45.65	ppb	0.00
Spiked Amount	50.000		Recovery	=	91.30%	
69) surr3,Toluene-d8	4.74	98	1476711	49.05	ppb	0.00
Spiked Amount	50.000		Recovery	=	98.10%	
70) surr2,bfb	7.03	95	530428	44.30	ppb	0.00
Spiked Amount	50.000		Recovery	=	88.60%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.04	85	5996	0.66	ppb	97
4) Chloromethane	1.14	50	10859	0.86	ppb	92
5) Vinyl Chloride	1.20	62	9160	0.82	ppb	94
6) Bromomethane	1.38	94	7423	0.92	ppb	86
7) Chloroethane	1.43	64	6879	0.91	ppb	# 88
8) FREON 21	1.52	67	15596	0.73	ppb	100
9) Trichlorofluoromethane	1.56	101	10363	0.69	ppb	92
10) Diethyl Ether	1.70	59	5159	0.79	ppb	92
11) FREON 123A	1.70	85	3849	0.75	ppb	78
12) FREON 123	1.73	85	7493	0.80	ppb	87
13) Acrolein	1.77	56	4353	5.14	ppb	# 67
14) FREON 113	1.83	85	3115	0.73	ppb	87
15) 1,1-Dicethene	1.84	96	6118	0.74	ppb	# 96
16) Acetone	1.85	43	3206	1.82	ppb	# 83
17) 2-Propanol	1.91	45	7576	26.40	ppb	89
19) Carbon Disulfide	1.97	76	24858	0.87	ppb	98
20) Acetonitrile	2.00	40	2096	5.44	ppb	# 58
21) Allyl Chloride	2.03	76	4018	0.79	ppb	49
22) Methyl Acetate	2.02	43	6082	0.87	ppb	# 90
23) Methylene Chloride	2.09	84	8409	0.85	ppb	90
24) TBA	2.13	59	7730	18.60	ppb	98
25) Acrylonitrile	2.22	53	9302	4.38	ppb	93
26) Methyl-t-Butyl Ether	2.24	73	15054	0.76	ppb	99
27) trans-1,2-Dichloroethene	2.24	96	7003	0.75	ppb	93
28) 1,1-Dicethane	2.48	63	16249	0.81	ppb	99
29) DIPE	2.50	45	35281	0.78	ppb	# 84
30) Vinyl Acetate	2.50	86	1266	1.32	ppb	# 45
31) 2-Chloro-1,3-butadiene	2.53	53	13931	0.67	ppb	100
32) ETBE	2.72	59	23686	0.79	ppb	95
33) 2,2-Dichloropropane	2.83	77	10863	0.67	ppb	96
34) 2-Butanone	2.83	43	4125	1.27	ppb	# 92
35) cis-1,2-Dichloroethene	2.83	96	8115	0.82	ppb	95
36) Propionitrile	2.86	54	3289	4.65	ppb	# 79
37) Methacrylonitrile	2.96	67	2110	0.96	ppb	68
38) Bromochloromethane	2.97	128	3087	0.84	ppb	86

(#) = qualifier out of range (m) = manual integration
 Z2137.D W060208.M Tue Jun 03 09:55:17 2008

Data File : J:\ACQUDATA\MSVOAS\DATA\060208\Z2137.D Vial: 9
 Acq On : 2 Jun 2008 2:50 pm Operator: Herring
 Sample : 1.0ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:54 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	3.01	83	13290	0.72	ppb	96
40) Tetrahydrofuran	3.01	42	2196	1.24	ppb	99
41) 1,1,1-Trichloroethane	3.15	97	10894	0.67	ppb #	1
44) cyclohexane	3.19	56	15677	0.74	ppb	100
45) Carbontetrachloride	3.26	117	8577	0.66	ppb	94
46) 1,1-Dichloropropene	3.25	75	9909	0.67	ppb #	92
47) Iso-Butyl Alcohol	3.29	43	4885	23.02	ppb	79
49) Benzene	3.39	78	29820	0.79	ppb	99
50) 1,2-Dichloroethane	3.40	62	9579	0.69	ppb	96
51) TAME	3.45	73	17276	0.79	ppb #	91
52) N-Heptane	3.55	43	14323	0.82	ppb	98
53) Trichloroethene	3.83	95	7721	0.77	ppb	92
54) methylcyclohexane	3.98	55	12623	0.73	ppb	97
55) 1,2-Diclp propane	3.99	63	8770	0.82	ppb	94
56) Methyl Methacrylate	4.05	69	3718	0.89	ppb	74
57) 1,4-Dioxane	4.09	88	707	21.57	ppb #	66
58) Dibromomethane	4.08	93	4011	0.81	ppb #	89
59) Bromodichloromethane	4.19	83	9415	0.72	ppb #	91
60) 2-Nitropropane	4.35	43	3335	1.31	ppb #	91
61) 2-Chloroethylvinyl Ether	4.40	63	3714	0.86	ppb #	75
62) cis-1,3-Dichloropropene	4.52	75	11192	0.75	ppb #	85
64) 4-Methyl-2-Pentanone	4.64	43	6386	0.89	ppb	93
65) Toluene	4.80	91	29461	0.78	ppb	100
66) trans-1,3-Dichloropropene	4.96	75	8767	0.73	ppb	94
67) Ethyl Methacrylate	5.03	69	6453	0.76	ppb #	75
68) 1,1,2-Trichloroethane	5.11	83	4342	0.91	ppb	93
71) Tetrachloroethene	5.25	166	5935	0.78	ppb	96
72) 2-Hexanone	5.32	43	4803	1.07	ppb #	76
73) 1,3-Dichloropropene	5.26	76	8997	0.81	ppb	81
74) Dibromochloromethane	5.45	129	5367	0.84	ppb	83
75) 1,2-Dibromoethane	5.56	107	4581	0.87	ppb	86
76) Chlorobenzene	5.98	112	16936	0.79	ppb	91
77) 1,1,1,2-Tetrachloroethane	6.06	131	5416	0.78	ppb #	67
78) Ethylbenzene	6.08	91	28897	0.72	ppb	95
79) (m+p)Xylene	6.18	106	20024	1.44	ppb	96
80) o-Xylene	6.54	106	9574	0.73	ppb	94
81) Styrene	6.55	104	16768	0.69	ppb	93
82) Bromoform	6.73	173	2007m	0.66	ppb	
83) Isopropylbenzene	6.89	105	26348	0.73	ppb	94
84) Cyclohexanone	6.98	55	7160	27.36	ppb	98
86) 1,1,2,2-Tetrachloroethane	7.16	83	4979	0.90	ppb	93
87) Trans-1,4-Dichloro-2-buten	7.22	53	1649	0.79	ppb #	72
88) 1,2,3-Trichloropropane	7.20	110	1406	0.79	ppb	95
89) n-Propylbenzene	7.28	91	31129	0.73	ppb	96
90) Bromobenzene	7.17	156	4857	0.73	ppb	91
92) 1,3,5-Trimethylbenzene	7.44	105	20099	0.70	ppb	86
93) 2-Chlorotoluene	7.36	91	18871	0.73	ppb	97
94) 4-Chlorotoluene	7.46	91	21178	0.68	ppb	93
95) tert-Butylbenzene	7.76	119	18026	0.77	ppb	95
96) 1,2,4-Trimethylbenzene	7.80	105	19528	0.70	ppb	96

(#) = qualifier out of range (m) = manual integration
 Z2137.D W060208.M Tue Jun 03 09:55:18 2008

Rjt 6/3/08

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2137.D
 Acq On : 2 Jun 2008 2:50 pm
 Sample : 1.0ppb
 Misc : 8260B I-CAL 10mL - MS#8
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:54 2008

Vial: 9
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

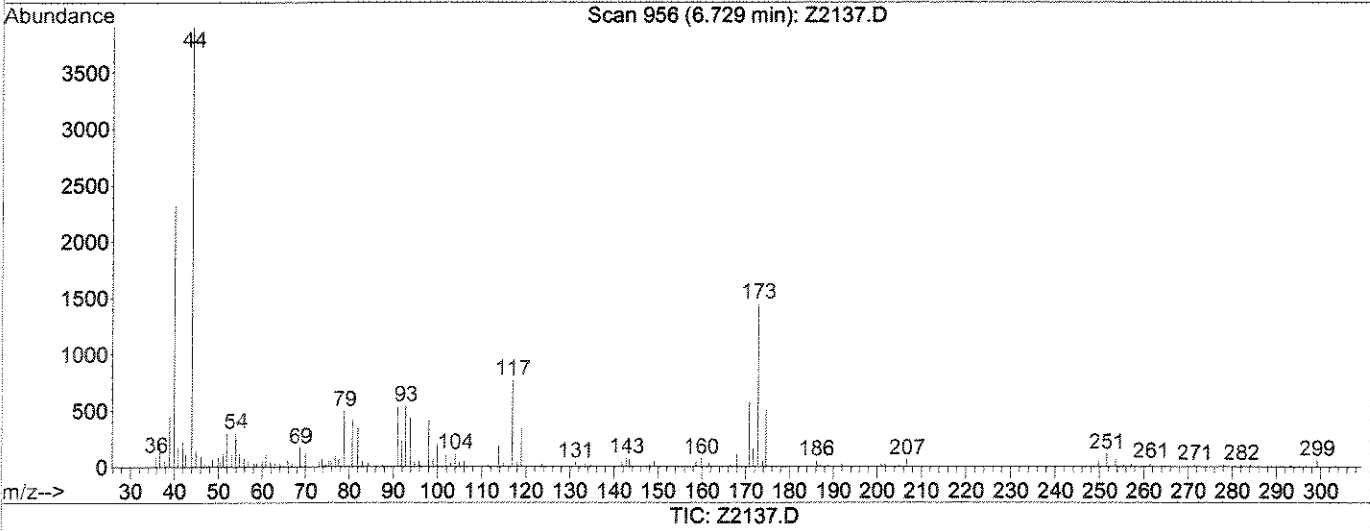
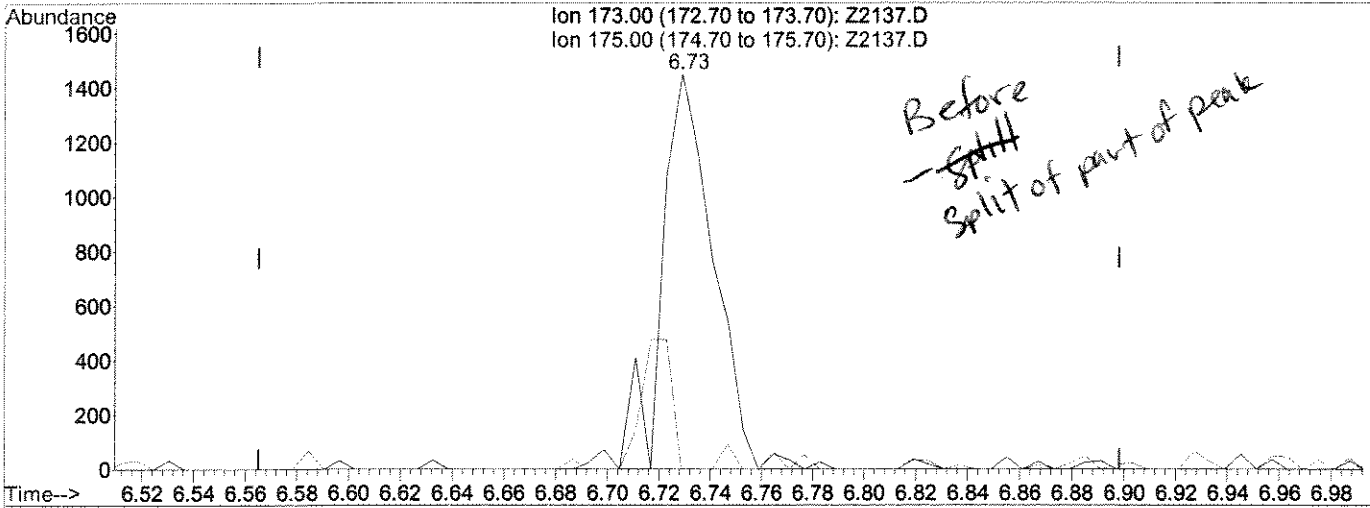
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
97) sec-Butylbenzene	7.97	105	26169	0.78	ppb	93
98) p-Isopropyltoluene	8.11	119	22446	0.80	ppb #	87
99) 1,3-Dclbenz	8.08	146	9207	0.73	ppb #	90
100) 1,4-Dclbenz	8.17	146	9236	0.72	ppb #	77
102) n-Butylbenzene	8.51	91	19739	0.75	ppb	98
103) 1,2-Dclbenz	8.54	146	7613	0.69	ppb	94
104) 1,2-Dibromo-3-chloropropan	9.31	157	557m	0.81	ppb	
106) 1,2,4-Tcbenzene	10.14	180	4227	0.68	ppb	97
107) Hexachlorobu	10.30	225	2325	0.77	ppb #	49
108) Naphthalen	10.38	128	9984	0.77	ppb	99
109) 1,2,3-Tclbenzene	10.60	180	3255	0.61	ppb	100

Rjt 6/3

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2137.D Vial: 9
 Acq On : 2 Jun 2008 2:50 pm Operator: Herring
 Sample : 1.0ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:33 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(82) Bromoform (p)

6.73min 0.61ppb

response 1858

Ion	Exp%	Act%
173.00	100	100
175.00	52.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

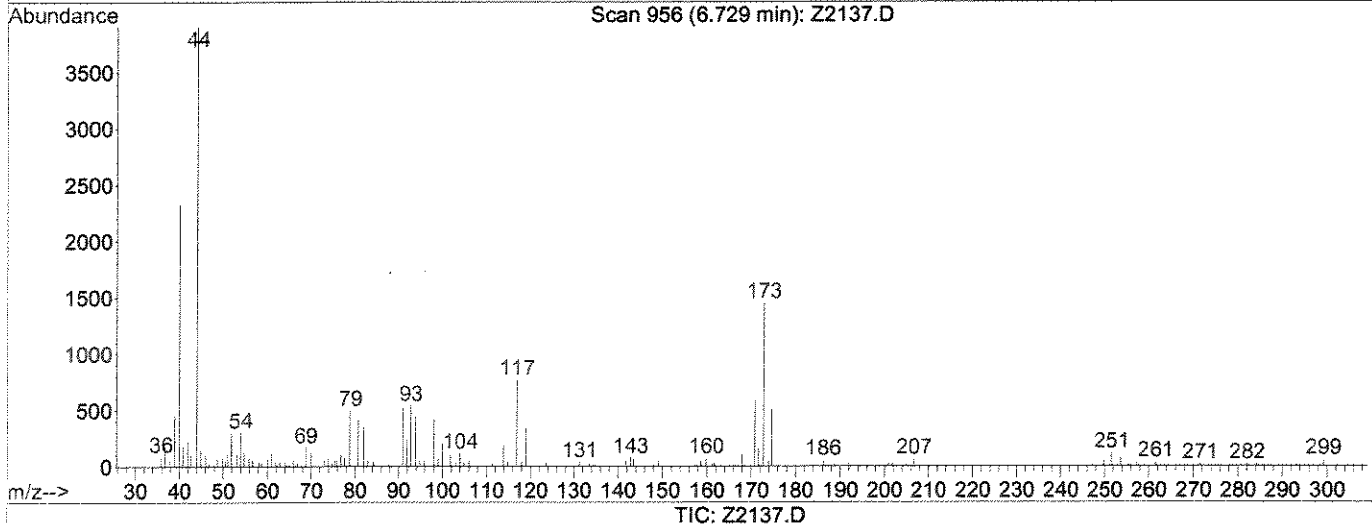
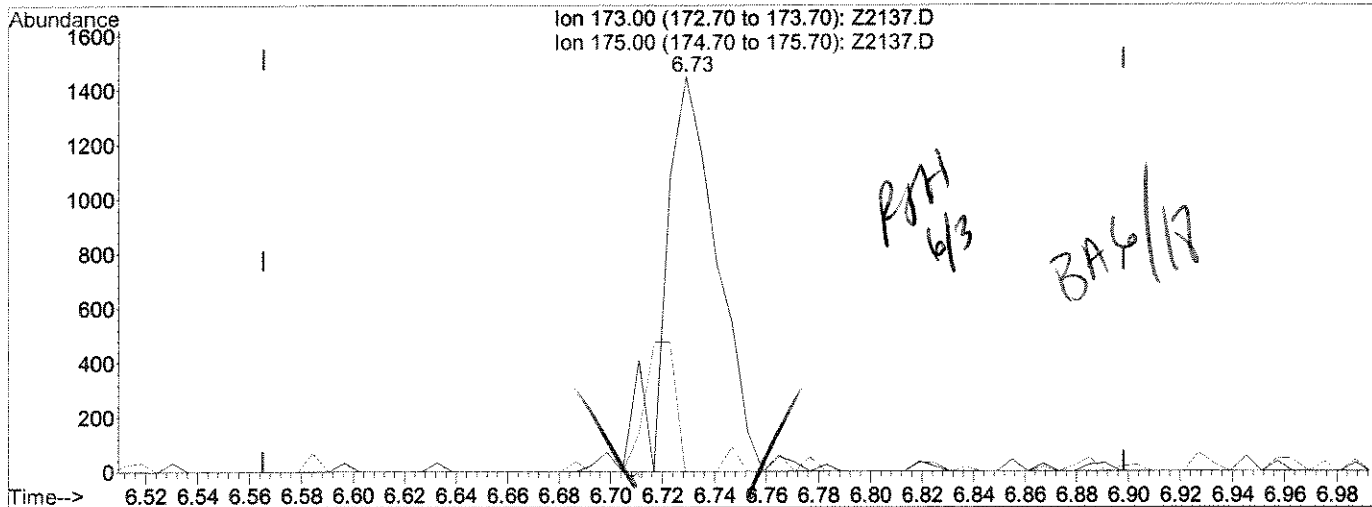
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2137.D
Acq On : 2 Jun 2008 2:50 pm
Sample : 1.0ppb
Misc : 8260B I-CAL 10mL - MS#8
MS Integration Params: RTEINT.P
Quant Time: Jun 3 9:53 2008

Vial: 9
Operator: Herring
Inst : MS #8
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa
Last Update : Tue Jun 03 09:30:40 2008
Response via : Multiple Level Calibration



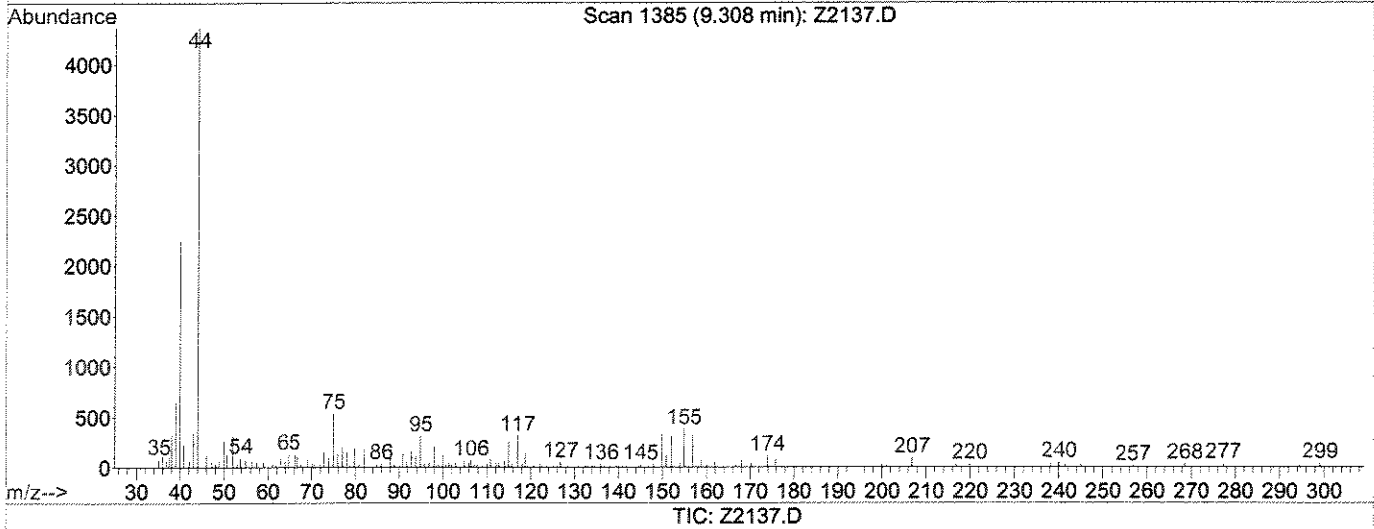
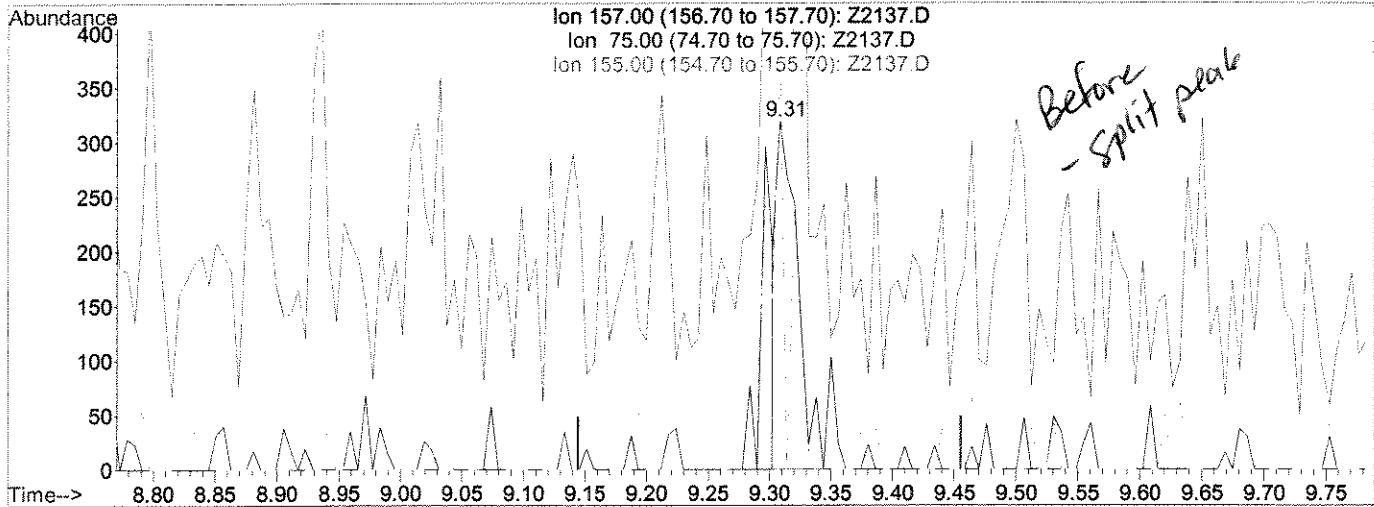
(82) Bromoform (p)
6.73min 0.66ppb m
response 2007

Ion	Exp%	Act%
173.00	100	100
175.00	52.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2137.D Vial: 9
 Acq On : 2 Jun 2008 2:50 pm Operator: Herring
 Sample : 1.0ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:53 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(104) 1,2-Dibromo-3-chloropropane

9.31min 0.55ppb

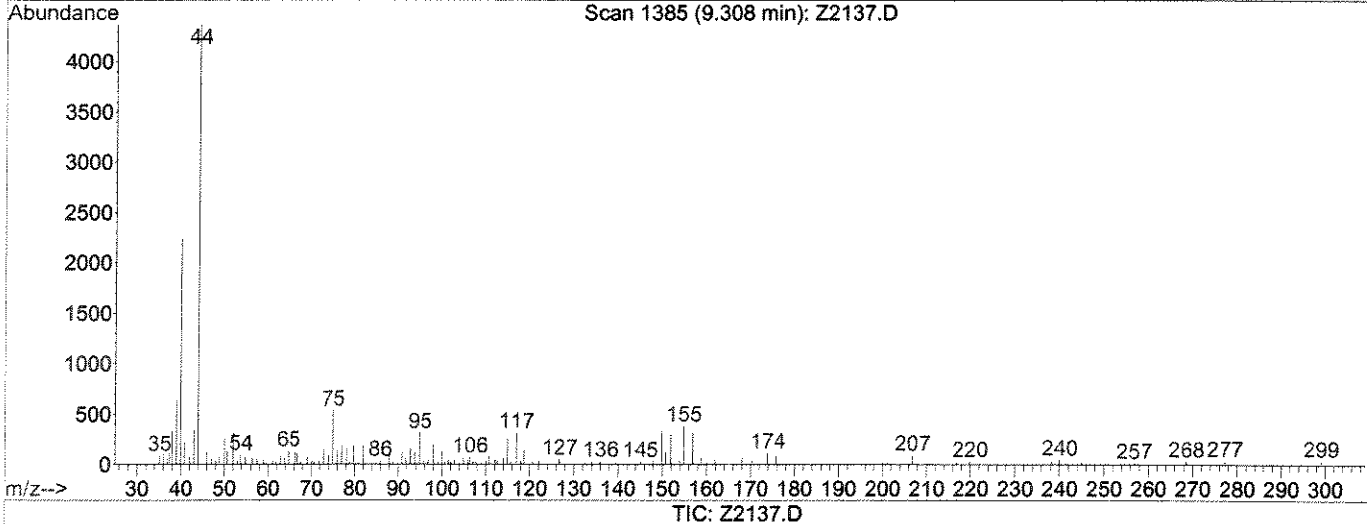
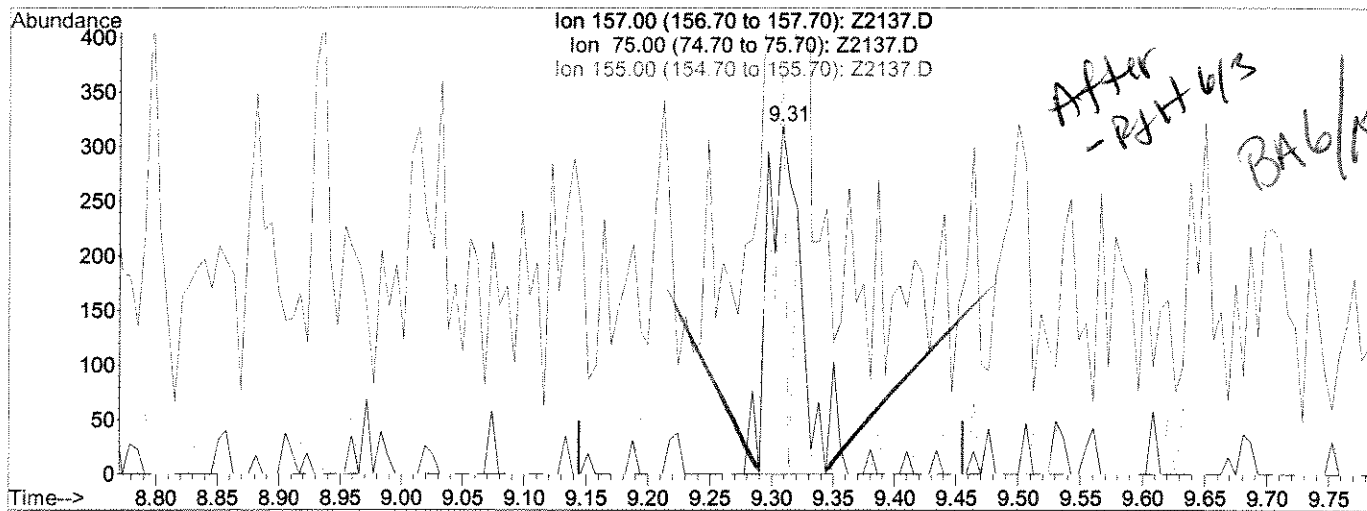
response 377

Ion	Exp%	Act%
157.00	100	100
75.00	127.70	167.71#
155.00	76.60	119.75#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2137.D Vial: 9
 Acq On : 2 Jun 2008 2:50 pm Operator: Herring
 Sample : 1.0ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:54 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(104) 1,2-Dibromo-3-chloropropane

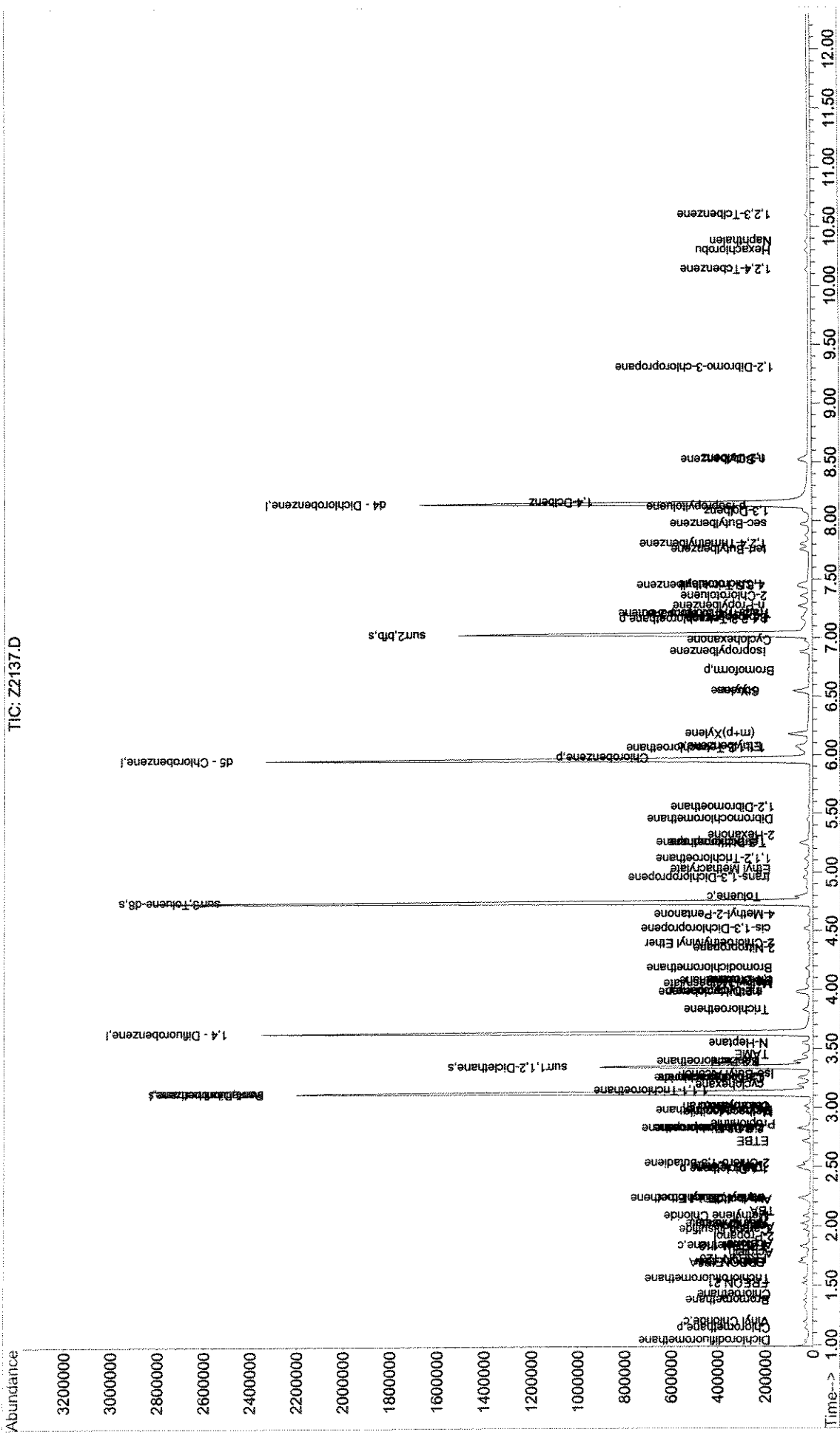
9.31min 0.81ppb m

response 557

Ion	Exp%	Act%
157.00	100	100
75.00	127.70	167.71#
155.00	76.60	119.75#
0.00	0.00	0.00

Data File : J:\ACQDATA\MSVOA8\DATA\060208\Z2137.D Vial: 9
 Acq On : 2 Jun 2008 2:50 pm Operator: Herring
 Sample : 1.0ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:54 2008 Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration



Rgt 6/3/08

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2138.D
 Acq On : 2 Jun 2008 3:18 pm
 Sample : 2.0ppb
 Misc : 8260B I-CAL 10mL - MS#8
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:00 2008

Vial: 10
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	662630	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1347514	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.96	117	1075520	50.00	ppb	0.01
85) d4 - Dichlorobenzene	8.15	152	400171	50.00	ppb	0.01

System Monitoring Compounds

43) surr4,Dibrflmethane	3.12	113	84555	9.63	ppb	0.00
Spiked Amount	50.000		Recovery	=	19.26%	
48) surr1,1,2-Dicethane	3.34	65	89618	9.16	ppb	0.00
Spiked Amount	50.000		Recovery	=	18.32%	
69) surr3,Toluene-d8	4.74	98	283613	9.69	ppb	0.00
Spiked Amount	50.000		Recovery	=	19.38%	
70) surr2,bfb	7.03	95	104110	8.94	ppb	0.00
Spiked Amount	50.000		Recovery	=	17.88%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.04	85	11875	1.36	ppb	99
4) Chloromethane	1.14	50	20939	1.72	ppb	92
5) Vinyl Chloride	1.20	62	18848	1.75	ppb	93
6) Bromomethane	1.38	94	12406	1.59	ppb	95
7) Chloroethane	1.43	64	12988	1.77	ppb	92
8) FREON 21	1.52	67	31941	1.54	ppb	96
9) Trichlorofluoromethane	1.56	101	19436	1.34	ppb	89
10) Diethyl Ether	1.70	59	10794	1.70	ppb	98
11) FREON 123A	1.70	85	7607	1.52	ppb	91
12) FREON 123	1.73	85	14693	1.62	ppb	93
13) Acrolein	1.77	56	8691	10.60	ppb	95
14) FREON 113	1.83	85	6004	1.44	ppb	89
15) 1,1-Dicethene	1.83	96	12667	1.57	ppb	98
16) Acetone	1.85	43	4640	2.71	ppb	100
17) 2-Propanol	1.91	45	10830	38.94	ppb	92
18) Iodomethane	1.93	127	2394	0.40	ppb	78
19) Carbon Disulfide	1.97	76	48077	1.74	ppb	100
20) Acetonitrile	2.00	40	4545	12.17	ppb	# 66
21) Allyl Chloride	2.03	76	7722	1.57	ppb	91
22) Methyl Acetate	2.02	43	10962	1.62	ppb	91
23) Methylene Chloride	2.09	84	15232	1.59	ppb	99
24) TBA	2.13	59	15389	38.21	ppb	99
25) Acrylonitrile	2.22	53	18640	9.07	ppb	98
26) Methyl-t-Butyl Ether	2.24	73	30725	1.61	ppb	92
27) trans-1,2-Dichloroethene	2.24	96	14973	1.66	ppb	88
28) 1,1-Dicethane	2.48	63	31774	1.63	ppb	95
29) DIPE	2.51	45	69626	1.60	ppb	99
30) Vinyl Acetate	2.50	86	1995	2.15	ppb	72
31) 2-Chloro-1,3-butadiene	2.54	53	27690	1.38	ppb	94
32) ETBE	2.72	59	45353	1.57	ppb	# 94
33) 2,2-Dichloropropane	2.83	77	22018	1.39	ppb	# 87
34) 2-Butanone	2.83	43	6883	2.19	ppb	97
35) cis-1,2-Dichloroethene	2.83	96	15378	1.60	ppb	89
36) Propionitrile	2.86	54	6004	8.76	ppb	96
37) Methacrylonitrile	2.96	67	3295	1.55	ppb	86

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

Data File : J:\ACQUDATA\MSVOAS\DATA\060208\Z2138.D Vial: 10
 Acq On : 2 Jun 2008 3:18 pm Operator: Herring
 Sample : 2.0ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:00 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	2.98	128	5738	1.62	ppb	74
39) Chloroform	3.01	83	25991	1.45	ppb	97
40) Tetrahydrofuran	3.01	42	4312	2.52	ppb	92
41) 1,1,1-Trichloroethane	3.15	97	21213	1.35	ppb #	1
44) cyclohexane	3.19	56	32253	1.54	ppb	98
45) Carbontetrachloride	3.26	117	17589	1.37	ppb	93
46) 1,1-Dichloropropene	3.25	75	20818	1.43	ppb	97
47) Iso-Butyl Alcohol	3.29	43	6350	30.51	ppb	77
49) Benzene	3.40	78	59892	1.61	ppb	97
50) 1,2-Dichloroethane	3.40	62	18430	1.36	ppb #	94
51) TAME	3.45	73	33423	1.56	ppb	93
52) N-Heptane	3.55	43	27225	1.58	ppb	89
53) Trichloroethene	3.83	95	14646	1.50	ppb	92
54) methylcyclohexane	3.97	55	25645	1.52	ppb	98
55) 1,2-Diclpropane	3.99	63	15793	1.51	ppb	98
56) Methyl Methacrylate	4.05	69	6320	1.55	ppb	80
57) 1,4-Dioxane	4.09	88	1360m	42.31	ppb	88
58) Dibromomethane	4.08	93	7725	1.59	ppb	93
59) Bromodichloromethane	4.18	83	18388	1.42	ppb #	93
60) 2-Nitropropane	4.35	43	6883	2.76	ppb	93
61) 2-Chloroethylvinyl Ether	4.40	63	7147	1.68	ppb #	90
62) cis-1,3-Dichloropropene	4.52	75	20843	1.42	ppb	96
64) 4-Methyl-2-Pentanone	4.64	43	11206	1.60	ppb	89
65) Toluene	4.80	91	57582	1.56	ppb	98
66) trans-1,3-Dichloropropene	4.95	75	17157	1.46	ppb	97
67) Ethyl Methacrylate	5.03	69	14630	1.78	ppb	100
68) 1,1,2-Trichloroethane	5.11	83	8141	1.75	ppb	93
71) Tetrachloroethene	5.25	166	10978	1.49	ppb #	90
72) 2-Hexanone	5.31	43	8289	1.89	ppb	90
73) 1,3-Dichloropropene	5.25	76	17726	1.64	ppb	93
74) Dibromochloromethane	5.45	129	9935	1.61	ppb	97
75) 1,2-Dibromoethane	5.56	107	8439	1.65	ppb	90
76) Chlorobenzene	5.98	112	33801	1.63	ppb	95
77) 1,1,1,2-Tetrachloroethane	6.05	131	10712	1.59	ppb #	85
78) Ethylbenzene	6.08	91	60443	1.54	ppb	92
79) (m+p)Xylene	6.18	106	44085	3.27	ppb	95
80) o-Xylene	6.55	106	19274	1.52	ppb	91
81) Styrene	6.55	104	33786	1.44	ppb	99
82) Bromoform	6.73	173	4066	1.38	ppb	87
83) Isopropylbenzene	6.88	105	55271	1.58	ppb	100
84) Cyclohexanone	6.98	55	15505	60.92	ppb	93
86) 1,1,2,2-Tetrachloroethane	7.15	83	9102	1.71	ppb #	96
87) Trans-1,4-Dichloro-2-buten	7.21	53	2558	1.26	ppb	93
88) 1,2,3-Trichloropropene	7.21	110	2527	1.46	ppb #	61
89) n-Propylbenzene	7.27	91	63794	1.54	ppb	97
90) Bromobenzene	7.18	156	9717	1.51	ppb	97
92) 1,3,5-Trimethylbenzene	7.44	105	42168	1.52	ppb	98
93) 2-Chlorotoluene	7.36	91	36921	1.48	ppb	95
94) 4-Chlorotoluene	7.46	91	40932	1.35	ppb	95
95) tert-Butylbenzene	7.76	119	36186	1.60	ppb	92

8/16/3

Data File : J:\ACQUADATA\MSVOAS\DATA\060208\Z2138.D Vial: 10
 Acq On : 2 Jun 2008 3:18 pm Operator: Herring
 Sample : 2.0ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:00 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUADATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

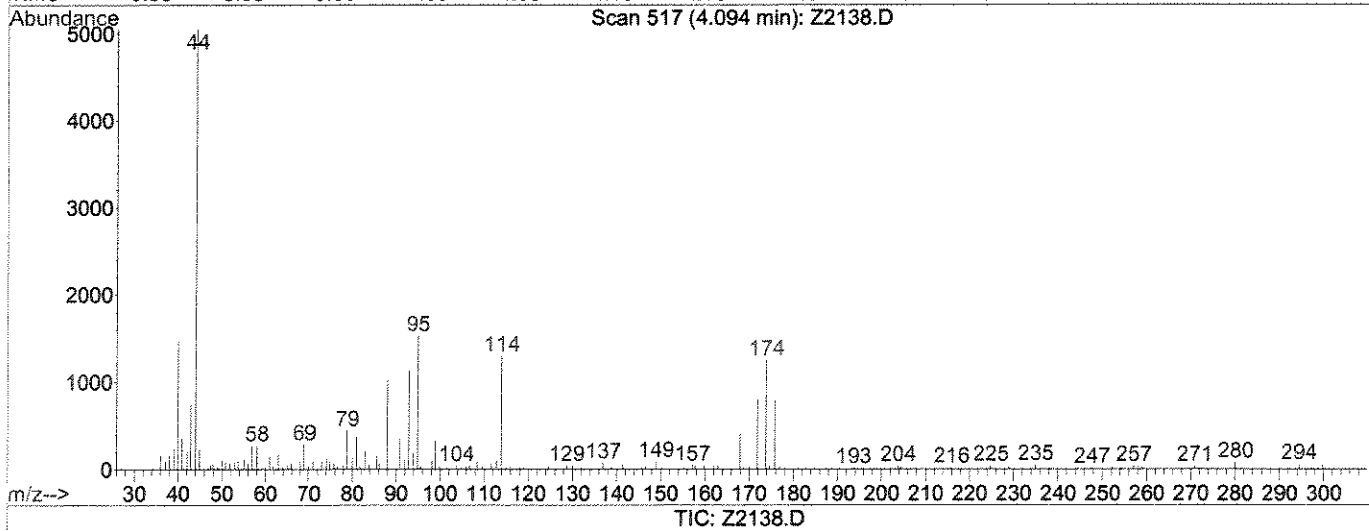
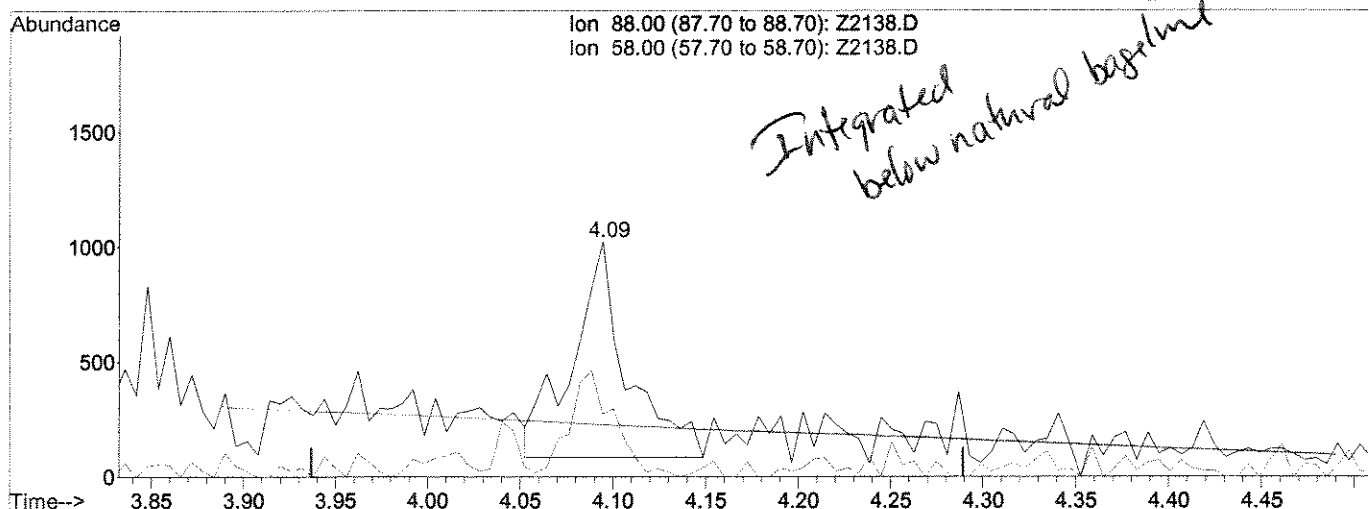
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,4-Trimethylbenzene	7.80	105	43728	1.62	ppb	99
97) sec-Butylbenzene	7.97	105	53642	1.65	ppb	99
98) p-Isopropyltoluene	8.11	119	45530	1.67	ppb	95
99) 1,3-Dclbenz	8.08	146	19375	1.60	ppb	97
100) 1,4-Dclbenz	8.17	146	20745	1.66	ppb	95
102) n-Butylbenzene	8.51	91	40653	1.60	ppb	97
103) 1,2-Dclbenz	8.54	146	17523	1.65	ppb	96
104) 1,2-Dibromo-3-chloropropan	9.31	157	1196	1.79	ppb #	74
106) 1,2,4-Tcbenzene	10.14	180	8491m	1.41	ppb	95
107) Hexachlorobu	10.30	225	4956	1.69	ppb	95
108) Naphthalen	10.38	128	19745	1.58	ppb #	91
109) 1,2,3-Tclbenzene	10.60	180	7259	1.40	ppb	82

FJH 6/3

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2138.D Vial: 10
 Acq On : 2 Jun 2008 3:18 pm Operator: Herring
 Sample : 2.0ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:33 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(57) 1,4-Dioxane

4.09min 60.11ppb

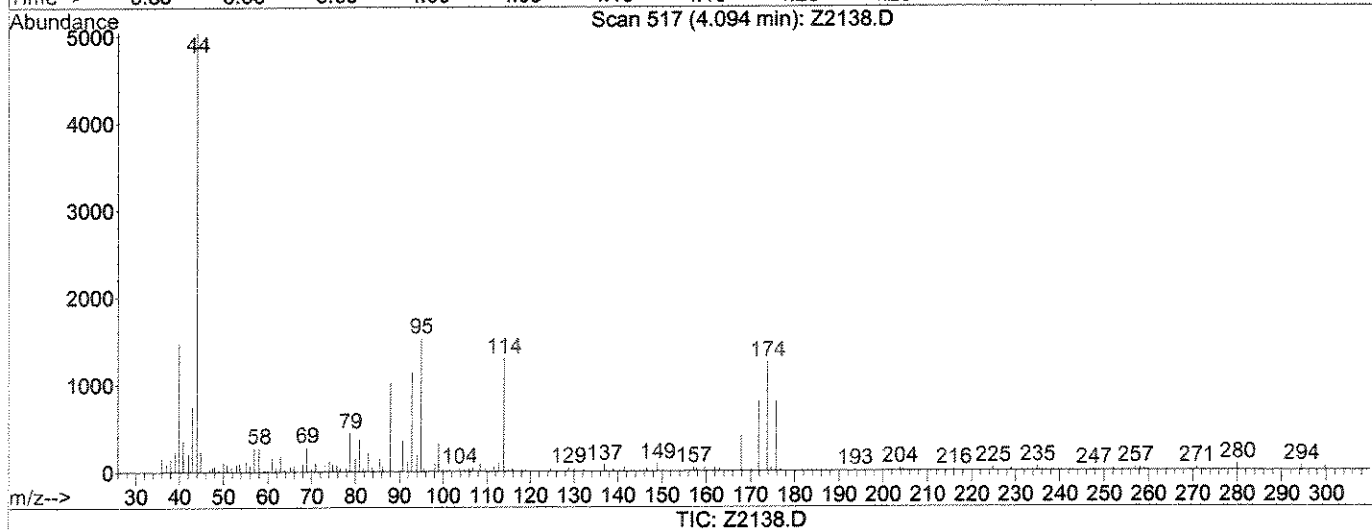
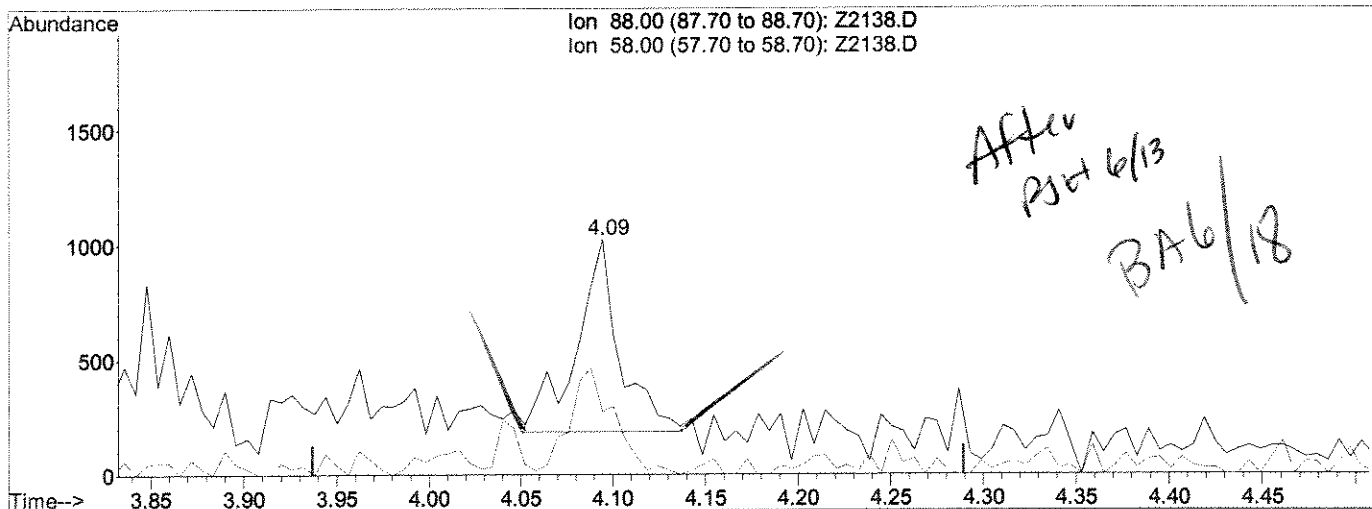
response 1932

Ion	Exp%	Act%
88.00	100	100
58.00	77.50	26.93#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOAS\DATA\060208\Z2138.D Vial: 10
 Acq On : 2 Jun 2008 3:18 pm Operator: Herring
 Sample : 2.0ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:59 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOAS\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(57) 1,4-Dioxane

4.09min 42.31ppb m

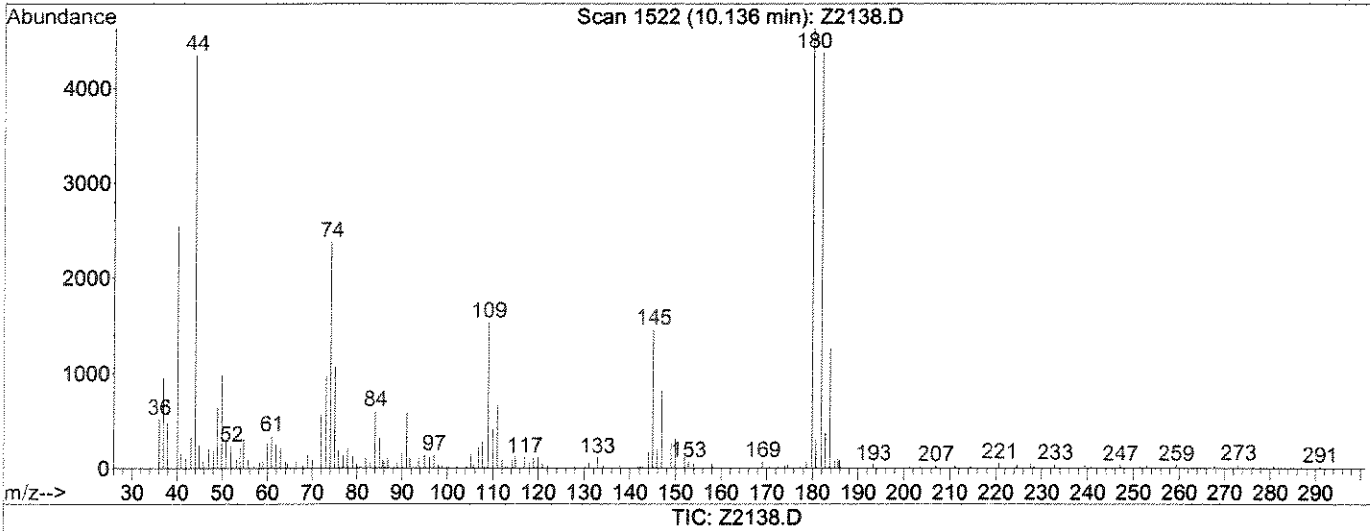
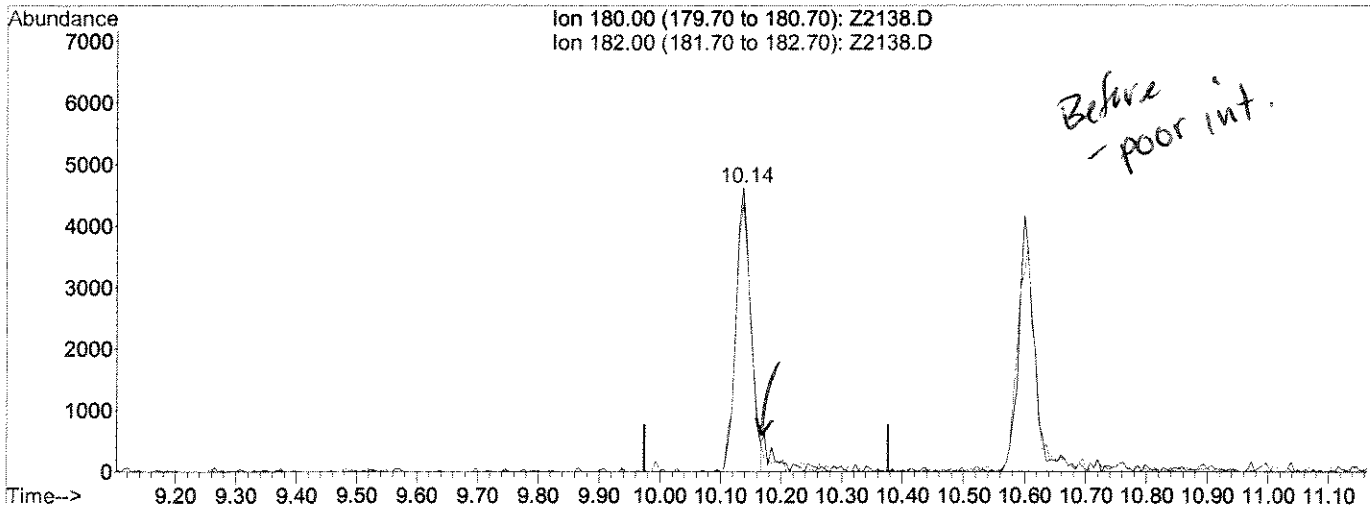
response 1360

Ion	Exp%	Act%
88.00	100	100
58.00	77.50	26.93#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2138.D Vial: 10
 Acq On : 2 Jun 2008 3:18 pm Operator: Herring
 Sample : 2.0ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:59 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(106) 1,2,4-Tcbenzene

10.14min 1.30ppb

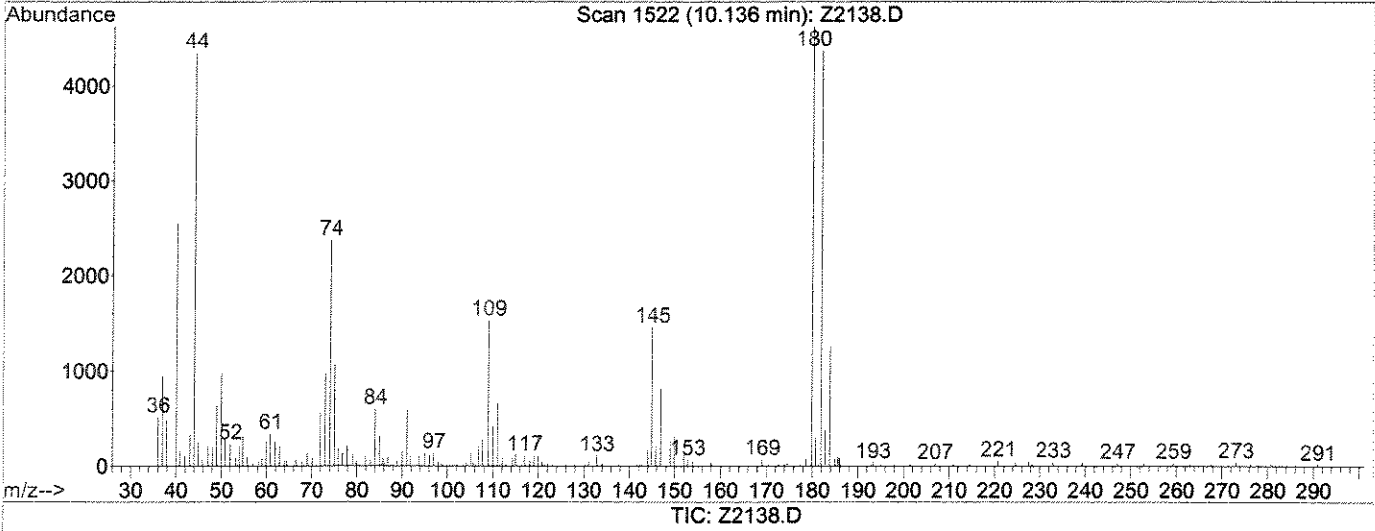
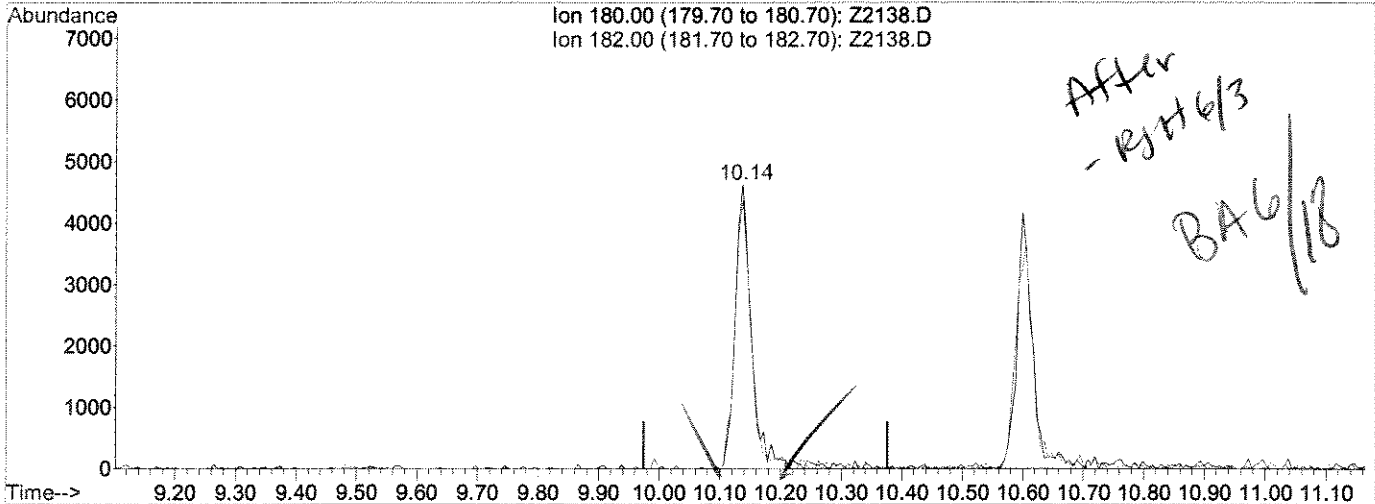
response 7867

Ion	Exp%	Act%
180.00	100	100
182.00	95.00	94.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2138.D Vial: 10
Acq On : 2 Jun 2008 3:18 pm Operator: Herring
Sample : 2.0ppb Inst : MS #8
Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 3 10:00 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa
Last Update : Tue Jun 03 09:30:40 2008
Response via : Multiple Level Calibration



(106) 1,2,4-Tcbenzene

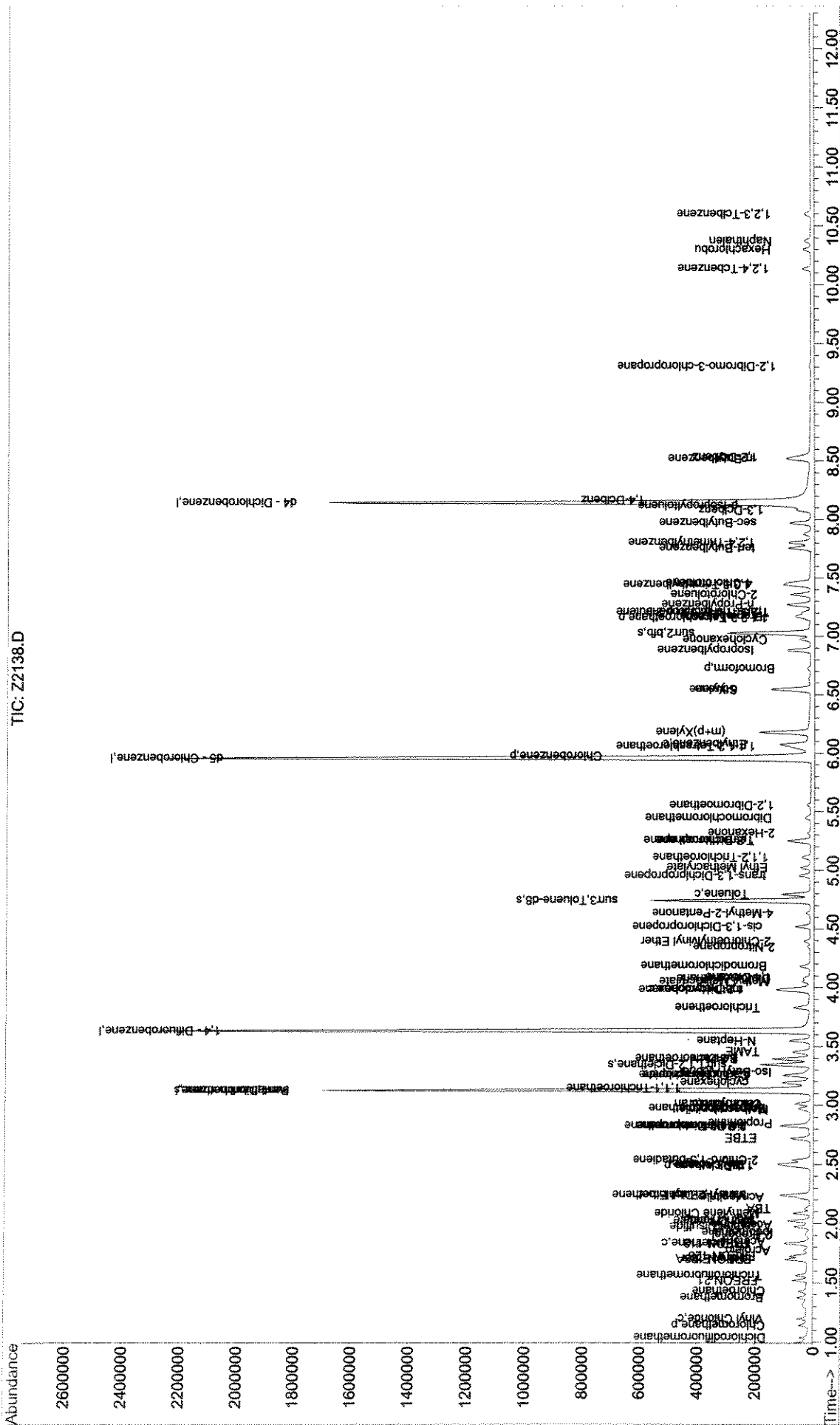
10.14min 1.41ppb m

response 8491

Ion	Exp%	Act%
180.00	100	100
182.00	95.00	94.53
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQDATA\MSVOA8\DATA\060208\Z2138.D Vial: 10
 Acq On : 2 Jun 2008 3:18 pm Operator: Herring
 Sample : 2.0ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:00 2008 Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration



RJH 6/3/08

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2140.D
 Acq On : 2 Jun 2008 4:14 pm
 Sample : 10ppb
 Misc : 8260B I-CAL 10mL - MS#8
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:19 2008

Vial: 12
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	667670	50.00	ppb	0.01
42) 1,4 - Difluorobenzene	3.64	114	1359531	50.00	ppb	0.01
63) d5 - Chlorobenzene	5.96	117	1086627	50.00	ppb	0.02
85) d4 - Dichlorobenzene	8.15	152	415044	50.00	ppb	0.01

System Monitoring Compounds

43) surr4,Dibrflmethane	3.12	113	313808	35.42	ppb	0.00
Spiked Amount	50.000		Recovery	=	70.84%	
48) surr1,1,2-Dicethane	3.35	65	341900	34.64	ppb	0.00
Spiked Amount	50.000		Recovery	=	69.28%	
69) surr3,Toluene-d8	4.74	98	1086866	36.74	ppb	0.00
Spiked Amount	50.000		Recovery	=	73.48%	
70) surr2,bfb	7.03	95	388121	32.99	ppb	0.01
Spiked Amount	50.000		Recovery	=	65.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.04	85	77673	8.80	ppb	100
4) Chloromethane	1.14	50	115110	9.37	ppb	100
5) Vinyl Chloride	1.20	62	112103	10.33	ppb	97
6) Bromomethane	1.38	94	58619	7.47	ppb	98
7) Chloroethane	1.43	64	74031	9.99	ppb	98
8) FREON 21	1.52	67	173019	8.30	ppb	100
9) Trichlorofluoromethane	1.56	101	114292	7.81	ppb	99
10) Diethyl Ether	1.71	59	61718	9.65	ppb	98
11) FREON 123A	1.70	85	37227	7.39	ppb	78
12) FREON 123	1.73	85	81163	8.87	ppb	88
13) Acrolein	1.77	56	43890	53.12	ppb	95
14) FREON 113	1.83	85	30201	7.20	ppb	77
15) 1,1-Dicethene	1.84	96	71463	8.81	ppb	94
16) Acetone	1.85	43	20073	11.65	ppb	94
17) 2-Propanol	1.91	45	56659	202.19	ppb	100
18) Iodomethane	1.93	127	28401	4.76	ppb	75
19) Carbon Disulfide	1.98	76	243889	8.74	ppb	99
20) Acetonitrile	2.00	40	22232	59.07	ppb	# 92
21) Allyl Chloride	2.03	76	45089	9.09	ppb	87
22) Methyl Acetate	2.03	43	54933	8.04	ppb	94
23) Methylene Chloride	2.09	84	83010	8.62	ppb	95
24) TBA	2.13	59	82910	204.28	ppb	98
25) Acrylonitrile	2.22	53	104797	50.59	ppb	97
26) Methyl-t-Butyl Ether	2.24	73	173834	9.02	ppb	93
27) trans-1,2-Dichloroethene	2.24	96	78686	8.64	ppb	99
28) 1,1-Dicethane	2.48	63	172812	8.79	ppb	99
29) DIPE	2.51	45	353351	8.04	ppb	97
30) Vinyl Acetate	2.49	86	9770	10.43	ppb	65
31) 2-Chloro-1,3-butadiene	2.54	53	146849	7.28	ppb	91
32) ETBE	2.72	59	244193	8.36	ppb	98
33) 2,2-Dichloropropane	2.83	77	125159	7.86	ppb	95
34) 2-Butanone	2.83	43	30421	9.61	ppb	96
35) cis-1,2-Dichloroethene	2.83	96	86888	8.98	ppb	91
36) Propionitrile	2.86	54	33683	48.77	ppb	96
37) Methacrylonitrile	2.96	67	20604	9.60	ppb	80

(#) = qualifier out of range (m) = manual integration
 Z2140.D W060208.M Tue Jun 03 10:19:43 2008

00270

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2140.D
 Acq On : 2 Jun 2008 4:14 pm
 Sample : 10ppb
 Misc : 8260B I-CAL 10mL - MS#8
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:19 2008

Vial: 12
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	2.98	128	33871	9.47	ppb	96
39) Chloroform	3.02	83	145264	8.04	ppb	97
40) Tetrahydrofuran	3.02	42	18413	10.67	ppb	91
41) 1,1,1-Trichloroethane	3.15	97	118269	7.47	ppb #	76
44) cyclohexane	3.20	56	169597	8.04	ppb	99
45) Carbontetrachloride	3.26	117	90884	7.02	ppb	95
46) 1,1-Dichloropropene	3.26	75	120039	8.19	ppb	95
47) Iso-Butyl Alcohol	3.29	43	42798	203.81	ppb	99
49) Benzene	3.40	78	331249	8.83	ppb	100
50) 1,2-Dichloroethane	3.40	62	104621	7.63	ppb #	94
51) TAME	3.46	73	180936	8.38	ppb	96
52) N-Heptane	3.55	43	155585	8.95	ppb	99
53) Trichloroethene	3.83	95	80197	8.12	ppb	99
54) methylcyclohexane	3.98	55	136349	8.02	ppb	99
55) 1,2-Diclpropane	3.99	63	95250	9.04	ppb	97
56) Methyl Methacrylate	4.05	69	35080	8.50	ppb	91
57) 1,4-Dioxane	4.09	88	6791	209.43	ppb	79
58) Dibromomethane	4.08	93	38792	7.90	ppb	97
59) Bromodichloromethane	4.18	83	99406	7.63	ppb	97
60) 2-Nitropropane	4.35	43	34650	13.77	ppb #	90
61) 2-Chloroethylvinyl Ether	4.40	63	38493	8.98	ppb	96
62) cis-1,3-Dichloropropene	4.53	75	125084	8.46	ppb	100
64) 4-Methyl-2-Pentanone	4.64	43	66421	9.38	ppb	96
65) Toluene	4.80	91	315156	8.47	ppb	100
66) trans-1,3-Dichloropropene	4.96	75	100668	8.47	ppb	95
67) Ethyl Methacrylate	5.03	69	74668	9.00	ppb	98
68) 1,1,2-Trichloroethane	5.12	83	42397	9.05	ppb	95
71) Tetrachloroethene	5.25	166	64612	8.70	ppb	96
72) 2-Hexanone	5.32	43	41404	9.35	ppb	92
73) 1,3-Dichloropropane	5.26	76	100601	9.23	ppb	89
74) Dibromochloromethane	5.45	129	57054	9.13	ppb	93
75) 1,2-Dibromoethane	5.56	107	48977	9.49	ppb	100
76) Chlorobenzene	5.99	112	189907	9.06	ppb	94
77) 1,1,1,2-Tetrachloroethane	6.05	131	61186	8.96	ppb	96
78) Ethylbenzene	6.08	91	341838	8.61	ppb	96
79) (m+p)Xylene	6.18	106	245471	18.03	ppb	92
80) o-Xylene	6.55	106	114008	8.90	ppb	90
81) Styrene	6.55	104	204233	8.61	ppb	98
82) Bromoform	6.73	173	23930	8.06	ppb	93
83) Isopropylbenzene	6.88	105	308501	8.71	ppb	100
84) Cyclohexanone	6.98	55	106093	412.58	ppb	98
86) 1,1,2,2-Tetrachloroethane	7.16	83	52340	9.48	ppb	96
87) Trans-1,4-Dichloro-2-buten	7.21	53	16293	7.74	ppb	86
88) 1,2,3-Trichloropropane	7.21	110	15284	8.53	ppb	88
89) n-Propylbenzene	7.27	91	372743	8.69	ppb	95
90) Bromobenzene	7.18	156	56502	8.44	ppb	96
92) 1,3,5-Trimethylbenzene	7.44	105	261846	9.08	ppb	99
93) 2-Chlorotoluene	7.36	91	208101	8.05	ppb	98
94) 4-Chlorotoluene	7.47	91	248268m	7.90	ppb	
95) tert-Butylbenzene	7.76	119	209495	8.95	ppb	89

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

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2140.D Vial: 12
 Acq On : 2 Jun 2008 4:14 pm Operator: Herring
 Sample : 10ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:19 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

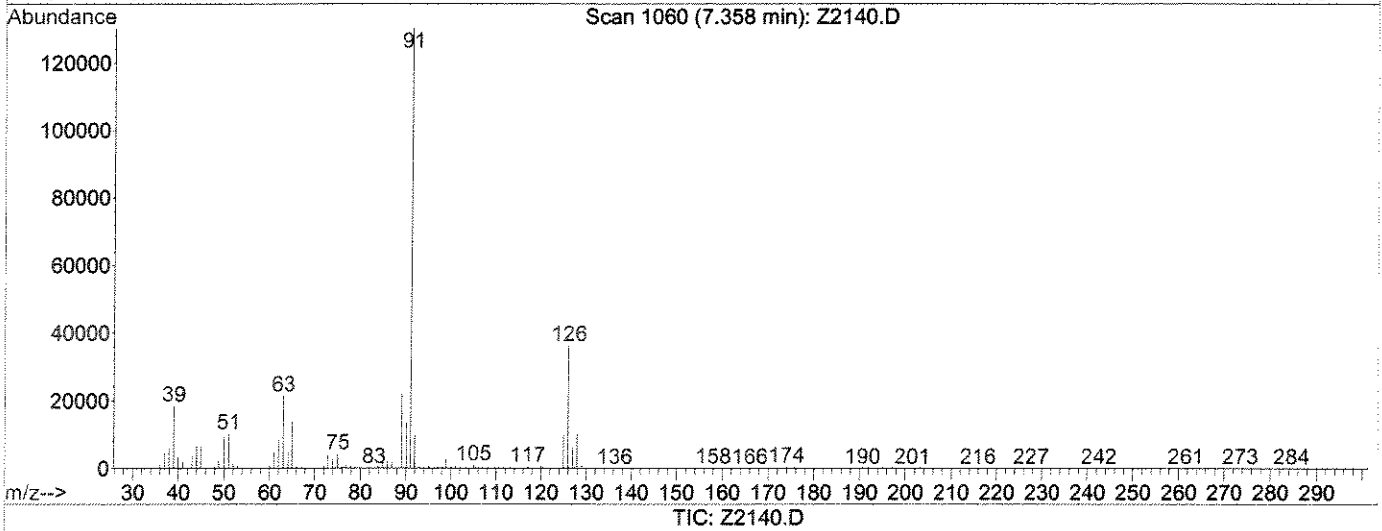
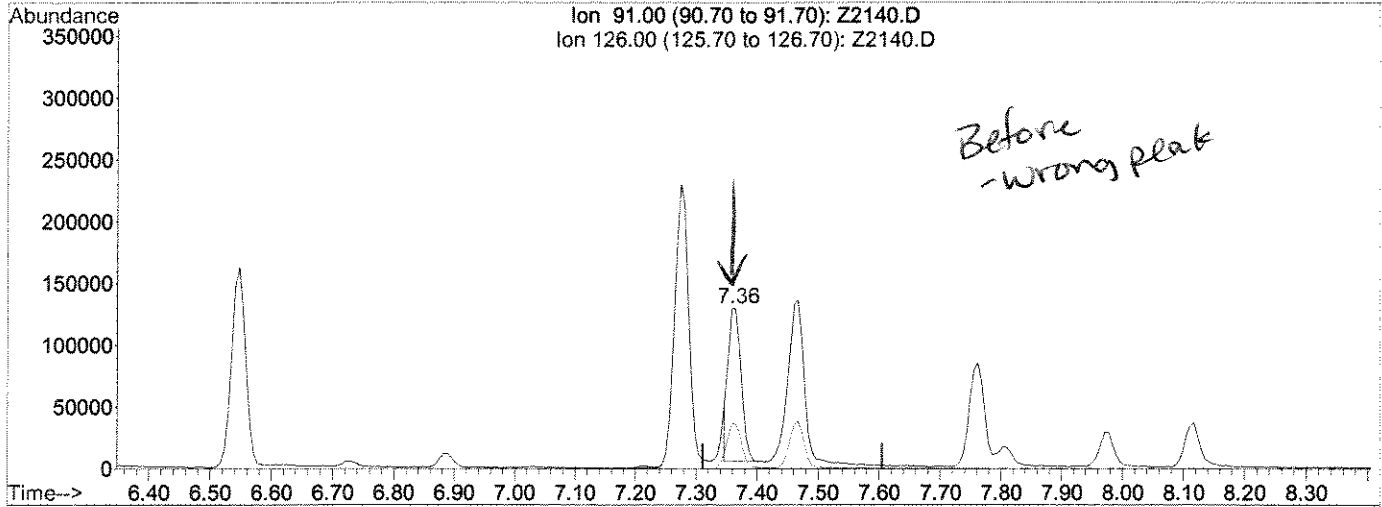
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,4-Trimethylbenzene	7.80	105	238989	8.53	ppb	93
97) sec-Butylbenzene	7.97	105	314179	9.30	ppb	98
98) p-Isopropyltoluene	8.12	119	264513	9.36	ppb	94
99) 1,3-Dclbenz	8.09	146	110277	8.77	ppb	98
100) 1,4-Dclbenz	8.17	146	112314	8.68	ppb	97
102) n-Butylbenzene	8.52	91	241890	9.15	ppb	97
103) 1,2-Dclbenz	8.54	146	100493	9.13	ppb	100
104) 1,2-Dibromo-3-chloropropan	9.31	157	6603	9.55	ppb	92
106) 1,2,4-Tcbenzene	10.14	180	48306	7.71	ppb	98
107) Hexachlorobu	10.30	225	27434	9.01	ppb	96
108) Naphthalen	10.38	128	118396	9.15	ppb	98
109) 1,2,3-Tclbenzene	10.60	180	42584	7.90	ppb	98

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

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2140.D Vial: 12
 Acq On : 2 Jun 2008 4:14 pm Operator: Herring
 Sample : 10ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:34 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(94) 4-Chlorotoluene

7.36min 5.69ppb

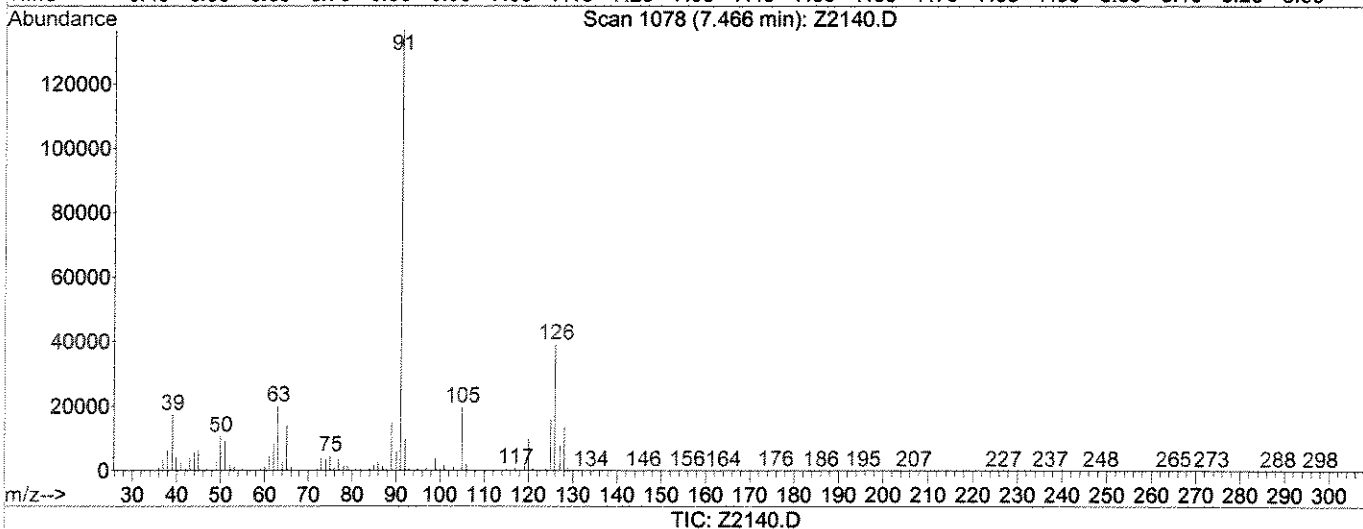
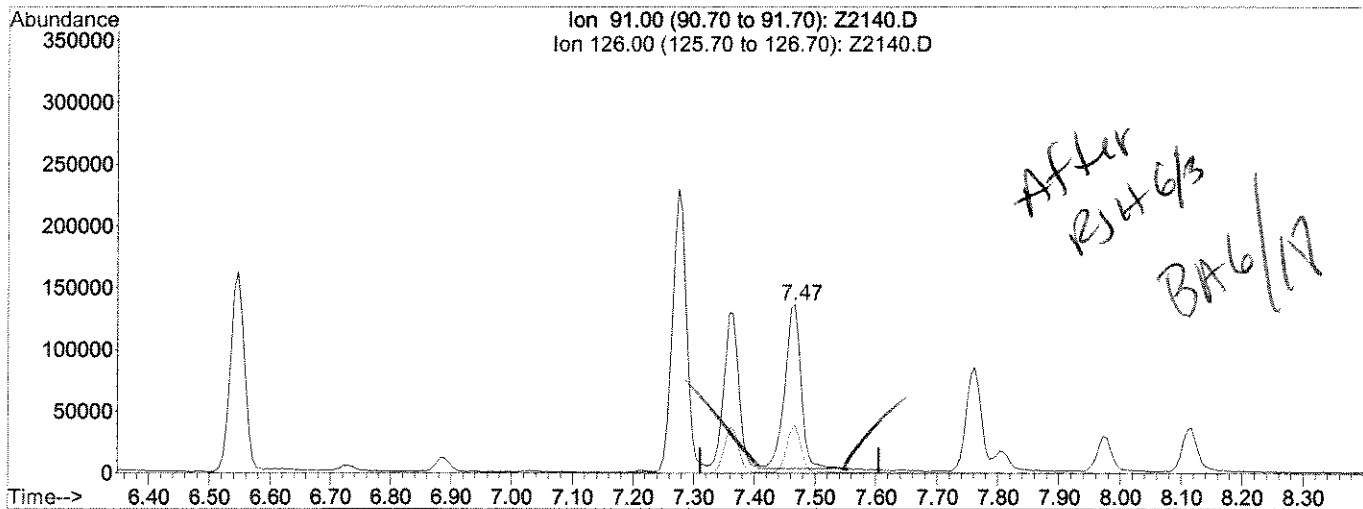
response 178851

Ion	Exp%	Act%
91.00	100	100
126.00	24.90	27.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2140.D Vial: 12
 Acq On : 2 Jun 2008 4:14 pm Operator: Herring
 Sample : 10ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:19 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(94) 4-Chlorotoluene

7.47min 7.90ppb m

response 248268

Ion	Exp%	Act%
91.00	100	100
126.00	24.90	28.75
0.00	0.00	0.00
0.00	0.00	0.00

RJH 6/3/08

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2141.D Vial: 13
 Acq On : 2 Jun 2008 4:42 pm Operator: Herring
 Sample : 50ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:22 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	673094	50.00	ppb	0.01
42) 1,4 - Difluorobenzene	3.64	114	1357436	50.00	ppb	0.01
63) d5 - Chlorobenzene	5.96	117	1089009	50.00	ppb	0.02
85) d4 - Dichlorobenzene	8.15	152	423453	50.00	ppb	0.01

System Monitoring Compounds

43) surr4,Dibrflmethane	3.12	113	415881	47.02	ppb	0.00
Spiked Amount	50.000		Recovery	=	94.04%	
48) surr1,1,2-Dicethane	3.35	65	434631	44.11	ppb	0.00
Spiked Amount	50.000		Recovery	=	88.22%	
69) surr3,Toluene-d8	4.74	98	1456911	49.15	ppb	0.00
Spiked Amount	50.000		Recovery	=	98.30%	
70) surr2,bfb	7.03	95	523078	44.36	ppb	0.01
Spiked Amount	50.000		Recovery	=	88.72%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.04	85	362392	40.71	ppb	99
4) Chloromethane	1.14	50	525208	42.40	ppb	99
5) Vinyl Chloride	1.20	62	515971	47.18	ppb	100
6) Bromomethane	1.38	94	282977	35.75	ppb	98
7) Chloroethane	1.43	64	335622	44.91	ppb	98
8) FREON 21	1.52	67	815582	38.80	ppb	100
9) Trichlorofluoromethane	1.56	101	530746	35.96	ppb	100
10) Diethyl Ether	1.71	59	277499	43.05	ppb	95
11) FREON 123A	1.70	85	213980	42.15	ppb	93
12) FREON 123	1.72	85	341645	37.04	ppb	98
13) Acrolein	1.77	56	210303	252.47	ppb	97
14) FREON 113	1.83	85	146054	34.56	ppb	85
15) 1,1-Dicethene	1.84	96	338429	41.38	ppb	92
16) Acetone	1.85	43	70275	40.45	ppb	93
17) 2-Propanol	1.91	45	254603	901.26	ppb	96
18) Iodomethane	1.93	127	196545	32.65	ppb	75
19) Carbon Disulfide	1.98	76	1187129	42.19	ppb	99
20) Acetonitrile	2.00	40	96446	254.18	ppb	95
21) Allyl Chloride	2.03	76	207403	41.47	ppb	86
22) Methyl Acetate	2.03	43	250111	36.33	ppb	98
23) Methylene Chloride	2.09	84	381356	39.30	ppb	93
24) TBA	2.13	59	349114	853.25	ppb	97
25) Acrylonitrile	2.22	53	462413	221.41	ppb	98
26) Methyl-t-Butyl Ether	2.24	73	784342	40.38	ppb	94
27) trans-1,2-Dichloroethene	2.25	96	384986	41.96	ppb	90
28) 1,1-Dicethane	2.48	63	808869	40.83	ppb	99
29) DIPE	2.51	45	1782787	40.25	ppb	98
30) Vinyl Acetate	2.49	86	46771	49.54	ppb	47
31) 2-Chloro-1,3-butadiene	2.54	53	727367	35.76	ppb	95
32) ETBE	2.72	59	1192691	40.53	ppb	98
33) 2,2-Dichloropropane	2.83	77	562121	35.02	ppb	94
34) 2-Butanone	2.82	43	134776	42.22	ppb	97
35) cis-1,2-Dichloroethene	2.82	96	402554	41.29	ppb	96
36) Propionitrile	2.86	54	151364	217.38	ppb	98
37) Methacrylonitrile	2.96	67	88212	40.75	ppb	93

(#) = qualifier out of range (m) = manual integration
 Z2141.D W060208.M Tue Jun 03 10:23:49 2008

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2141.D

Vial: 13

Acq On : 2 Jun 2008 4:42 pm

Operator: Herring

Sample : 50ppb

Inst : MS #8

Misc : 8260B I-CAL 10mL - MS#8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 3 10:22 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)

Title : 8260voa

Last Update : Tue Jun 03 09:30:40 2008

Response via : Initial Calibration

DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	2.98	128	151038	41.88	ppb	87
39) Chloroform	3.02	83	663322	36.42	ppb	100
40) Tetrahydrofuran	3.02	42	72619	41.74	ppb	97
41) 1,1,1-Trichloroethane	3.16	97	547342	34.31	ppb	99
44) cyclohexane	3.20	56	850963	40.43	ppb	98
45) Carbontetrachloride	3.26	117	443112	34.26	ppb	98
46) 1,1-Dichloropropene	3.26	75	579224	39.58	ppb	98
47) Iso-Butyl Alcohol	3.29	43	185927	886.80	ppb	97
49) Benzene	3.40	78	1598491	42.68	ppb	99
50) 1,2-Dichloroethane	3.40	62	457683	33.42	ppb	# 91
51) TAME	3.46	73	874106	40.53	ppb	95
52) N-Heptane	3.55	43	765233	44.09	ppb	95
53) Trichloroethene	3.83	95	379956	38.51	ppb	98
54) methylcyclohexane	3.98	55	663183	39.08	ppb	98
55) 1,2-Diclpropane	4.00	63	436618	41.52	ppb	100
56) Methyl Methacrylate	4.05	69	161038	39.09	ppb	95
57) 1,4-Dioxane	4.09	88	26391	815.12	ppb	95
58) Dibromomethane	4.08	93	169632	34.61	ppb	96
59) Bromodichloromethane	4.18	83	462960	35.61	ppb	96
60) 2-Nitropropane	4.35	43	159385	63.45	ppb	94
61) 2-Chloroethylvinyl Ether	4.40	63	170782	39.90	ppb	99
62) cis-1,3-Dichloropropene	4.53	75	576455	39.05	ppb	96
64) 4-Methyl-2-Pentanone	4.64	43	284702	40.14	ppb	95
65) Toluene	4.80	91	1500082	40.23	ppb	99
66) trans-1,3-Dichloropropene	4.96	75	461462	38.76	ppb	98
67) Ethyl Methacrylate	5.03	69	333711	40.15	ppb	98
68) 1,1,2-Trichloroethane	5.12	83	194409	41.39	ppb	99
71) Tetrachloroethene	5.25	166	306925	41.22	ppb	95
72) 2-Hexanone	5.32	43	190687	42.95	ppb	94
73) 1,3-Dichloropropane	5.26	76	447605	40.99	ppb	91
74) Dibromochloromethane	5.45	129	260610	41.61	ppb	95
75) 1,2-Dibromoethane	5.56	107	213232	41.22	ppb	99
76) Chlorobenzene	5.99	112	891158	42.41	ppb	95
77) 1,1,1,2-Tetrachloroethane	6.05	131	287944	42.08	ppb	98
78) Ethylbenzene	6.08	91	1677431	42.16	ppb	96
79) (m+p)Xylene	6.19	106	1212437	88.84	ppb	89
80) o-Xylene	6.55	106	559684	43.58	ppb	94
81) Styrene	6.56	104	992348	41.75	ppb	92
82) Bromoform	6.73	173	114222	38.37	ppb	98
83) Isopropylbenzene	6.89	105	1525722	42.99	ppb	97
84) Cyclohexanone	6.98	55	443732	1721.85	ppb	96
86) 1,1,2,2-Tetrachloroethane	7.16	83	232933	41.37	ppb	98
87) Trans-1,4-Dichloro-2-buten	7.21	53	73459	34.18	ppb	93
88) 1,2,3-Trichloropropane	7.21	110	64423	35.23	ppb	97
89) n-Propylbenzene	7.28	91	1865217	42.62	ppb	97
90) Bromobenzene	7.18	156	268817	39.38	ppb	99
92) 1,3,5-Trimethylbenzene	7.44	105	1205223	40.94	ppb	98
93) 2-Chlorotoluene	7.36	91	990138	37.55	ppb	95
94) 4-Chlorotoluene	7.47	91	1219460m	38.05	ppb	
95) tert-Butylbenzene	7.76	119	1024046	42.87	ppb	89

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

Z2141.D W060208.M

Tue Jun 03 10:23:49 2008

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00277

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2141.D Vial: 13
 Acq On : 2 Jun 2008 4:42 pm Operator: Herring
 Sample : 50ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:22 2008 Quant Results File: W060208.RES

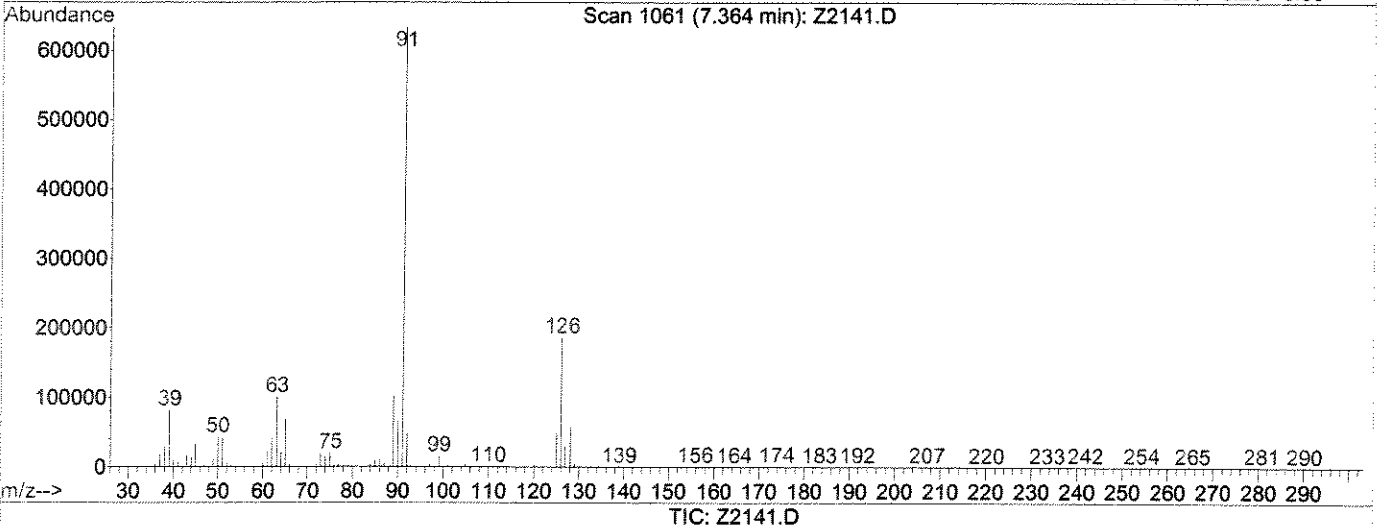
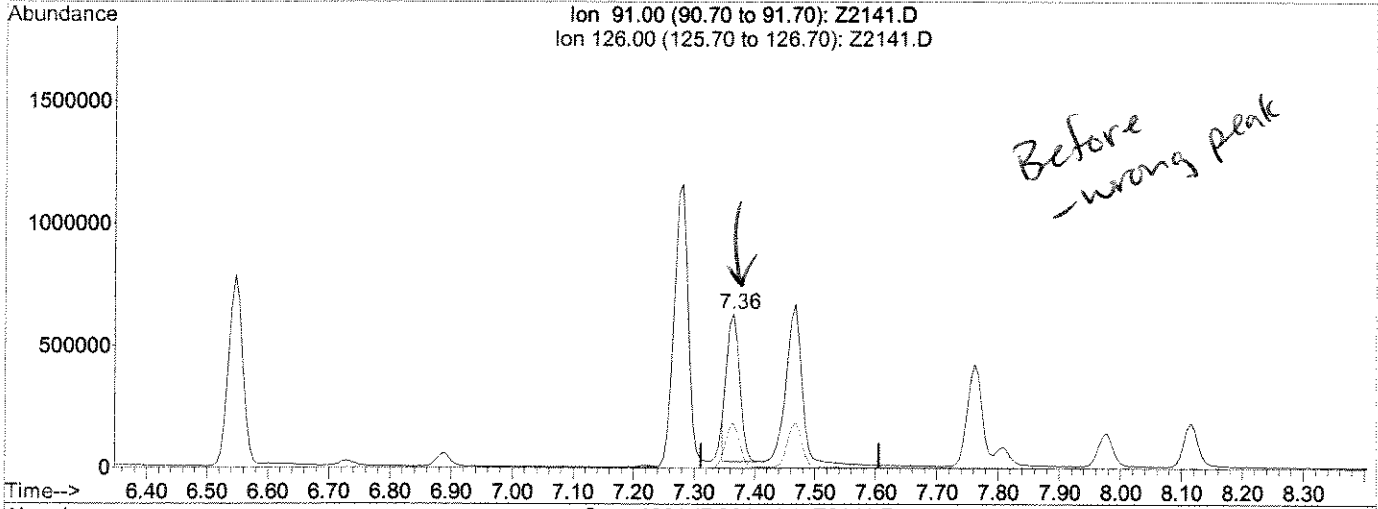
Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,4-Trimethylbenzene	7.81	105	1178599	41.25	ppb	96
97) sec-Butylbenzene	7.98	105	1525763	44.25	ppb	96
98) p-Isopropyltoluene	8.12	119	1310489	45.47	ppb	94
99) 1,3-Dclbenz	8.09	146	527111	41.07	ppb	98
100) 1,4-Dclbenz	8.17	146	529863	40.12	ppb	99
102) n-Butylbenzene	8.52	91	1200473	44.52	ppb	99
103) 1,2-Dclbenz	8.54	146	457963	40.77	ppb	98
104) 1,2-Dibromo-3-chloropropan	9.31	157	29631	42.01	ppb	94
106) 1,2,4-Tcbenzene	10.14	180	246247	38.52	ppb	96
107) Hexachlorobu	10.30	225	133795	43.06	ppb	97
108) Naphthalen	10.38	128	571772	43.30	ppb	97
109) 1,2,3-Tclbenzene	10.60	180	212825	38.68	ppb	98

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2141.D Vial: 13
Acq On : 2 Jun 2008 4:42 pm Operator: Herring
Sample : 50ppb Inst : MS #8
Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 3 9:34 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa
Last Update : Tue Jun 03 09:30:40 2008
Response via : Multiple Level Calibration



(94) 4-Chlorotoluene

7.36min 27.96ppb

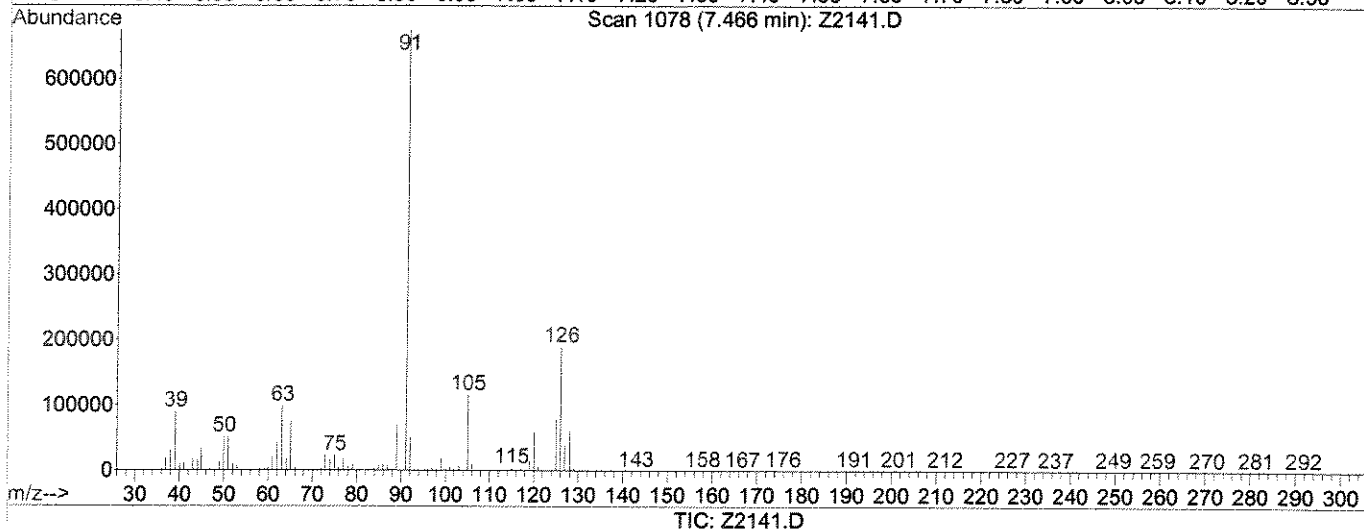
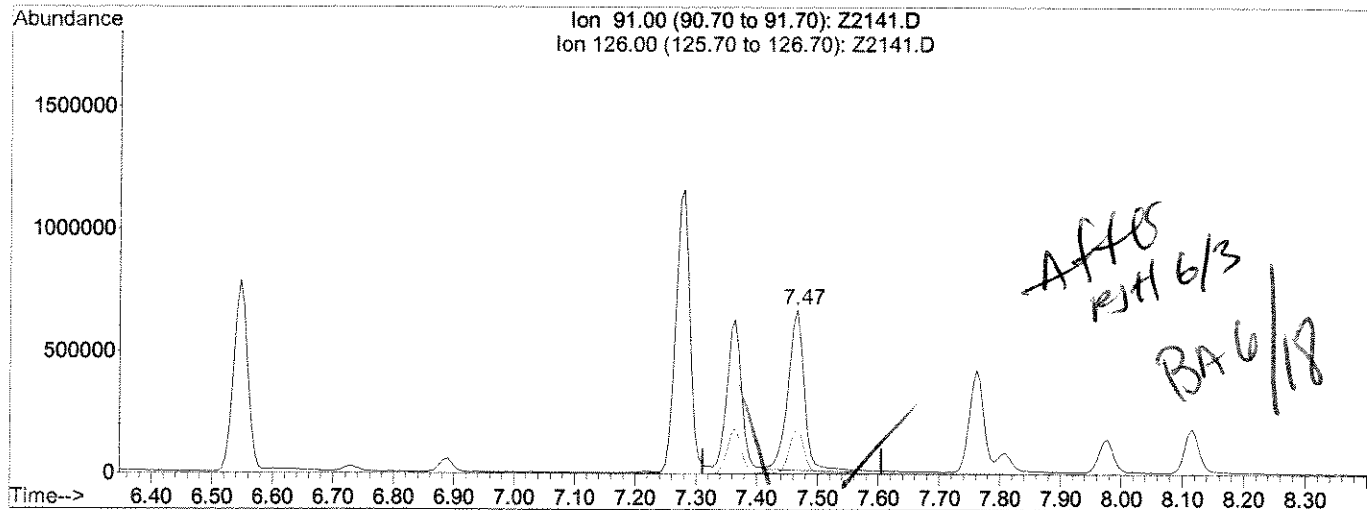
response 896094

Ion	Exp%	Act%
91.00	100	100
126.00	24.90	29.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUADATA\MSVOA8\DATA\060208\Z2141.D Vial: 13
 Acq On : 2 Jun 2008 4:42 pm Operator: Herring
 Sample : 50ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:22 2008 Quant Results File: temp.res

Method : J:\ACQUADATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(94) 4-Chlorotoluene

7.47min 38.05ppb m

response 1219460

Ion	Exp%	Act%
91.00	100	100
126.00	24.90	28.13
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOAS\DATA\060208\Z2142.D
 Acq On : 2 Jun 2008 5:10 pm
 Sample : 100ppb
 Misc : 8260B I-CAL 10mL - MS#8
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:34 2008

Vial: 14
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	703127	50.00	ppb	0.01
42) 1,4 - Difluorobenzene	3.64	114	1382851	50.00	ppb	0.01
63) d5 - Chlorobenzene	5.96	117	1099584	50.00	ppb	0.02
85) d4 - Dichlorobenzene	8.15	152	415833	50.00	ppb	0.02

System Monitoring Compounds

43) surr4,Dibrflmethane	3.12	113	865358	96.03	ppb	0.00
Spiked Amount	50.000		Recovery	=	192.06%	
48) surr1,1,2-Dicethane	3.35	65	881114	87.77	ppb	0.00
Spiked Amount	50.000		Recovery	=	175.54%	
69) surr3,Toluene-d8	4.75	98	3044438	101.71	ppb	0.01
Spiked Amount	50.000		Recovery	=	203.42%	
70) surr2,bfb	7.03	95	1054122	88.54	ppb	0.01
Spiked Amount	50.000		Recovery	=	177.08%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.04	85	764190	82.18	ppb	99
4) Chloromethane	1.14	50	1151366	88.98	ppb	98
5) Vinyl Chloride	1.20	62	1124433	98.43	ppb	97
6) Bromomethane	1.37	94	634897	76.79	ppb	99
7) Chloroethane	1.42	64	717788	91.95	ppb	98
8) FREON 21	1.52	67	1784396	81.27	ppb	100
9) Trichlorofluoromethane	1.56	101	1107606	71.84	ppb	100
10) Diethyl Ether	1.71	59	609320	90.50	ppb	94
11) FREON 123A	1.69	85	399210	75.28	ppb	81
12) FREON 123	1.72	85	817961	84.90	ppb	91
13) Acrolein	1.77	56	459946	528.58	ppb	99
14) FREON 113	1.83	85	312904	70.88	ppb	85
15) 1,1-Dicethene	1.84	96	747188	87.47	ppb	90
16) Acetone	1.86	43	155404	85.63	ppb	93
17) 2-Propanol	1.91	45	577540	1957.09	ppb	94
18) Iodomethane	1.93	127	452295	71.92	ppb	72
19) Carbon Disulfide	1.97	76	2545767	86.60	ppb	99
20) Acetonitrile	2.00	40	219939	554.88	ppb	92
21) Allyl Chloride	2.03	76	482586	92.37	ppb	77
22) Methyl Acetate	2.03	43	540666	75.19	ppb	99
23) Methylene Chloride	2.09	84	826664	81.55	ppb	99
24) TBA	2.13	59	811082	1897.66	ppb	93
25) Acrylonitrile	2.22	53	1054635	483.41	ppb	97
26) Methyl-t-Butyl Ether	2.24	73	1756043	86.55	ppb	# 91
27) trans-1,2-Dichloroethene	2.24	96	845996	88.26	ppb	95
28) 1,1-Dicethane	2.48	63	1742439	84.20	ppb	99
29) DIPE	2.51	45	3969436	85.78	ppb	97
30) Vinyl Acetate	2.49	86	103321	104.75	ppb	# 41
31) 2-Chloro-1,3-butadiene	2.54	53	1596823	75.16	ppb	95
32) ETBE	2.72	59	2669650	86.84	ppb	99
33) 2,2-Dichloropropane	2.83	77	1186794	70.78	ppb	94
34) 2-Butanone	2.83	43	290040	86.98	ppb	99
35) cis-1,2-Dichloroethene	2.83	96	901184	88.48	ppb	93
36) Propionitrile	2.86	54	332222	456.74	ppb	98
37) Methacrylonitrile	2.96	67	202216	89.42	ppb	92

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

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2142.D
 Acq On : 2 Jun 2008 5:10 pm
 Sample : 100ppb
 Misc : 8260B I-CAL 10mL - MS#8
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:34 2008

Vial: 14
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	2.98	128	324876	86.24	ppb	88
39) Chloroform	3.02	83	1430076	75.17	ppb	98
40) Tetrahydrofuran	3.02	42	168606	92.76	ppb	94
41) 1,1,1-Trichloroethane	3.16	97	1165201	69.92	ppb	98
44) cyclohexane	3.20	56	1923232	89.69	ppb	97
45) Carbontetrachloride	3.26	117	961233	72.95	ppb	97
46) 1,1-Dichloropropene	3.26	75	1230725	82.56	ppb	96
47) Iso-Butyl Alcohol	3.29	43	426368	1996.23	ppb	96
49) Benzene	3.40	78	3477869	91.15	ppb	100
50) 1,2-Dichloroethane	3.40	62	987079	70.76	ppb	# 92
51) TAME	3.46	73	1958882	89.15	ppb	94
52) N-Heptane	3.55	43	1640717	92.80	ppb	95
53) Trichloroethene	3.83	95	802146	79.81	ppb	97
54) methylcyclohexane	3.98	55	1481297	85.69	ppb	97
55) 1,2-Diclpropane	4.00	63	944239	88.13	ppb	99
56) Methyl Methacrylate	4.05	69	355308	84.66	ppb	93
57) 1,4-Dioxane	4.09	88	59497	1803.87	ppb	99
58) Dibromomethane	4.08	93	370820	74.28	ppb	99
59) Bromodichloromethane	4.18	83	997689	75.32	ppb	96
60) 2-Nitropropane	4.35	43	361296	141.19	ppb	99
61) 2-Chloroethylvinyl Ether	4.40	63	373041	85.55	ppb	97
62) cis-1,3-Dichloropropene	4.53	75	1266747	84.24	ppb	96
64) 4-Methyl-2-Pentanone	4.64	43	608220	84.92	ppb	97
65) Toluene	4.80	91	3219618	85.51	ppb	97
66) trans-1,3-Dichloropropene	4.96	75	1010494	84.07	ppb	99
67) Ethyl Methacrylate	5.03	69	755718	90.04	ppb	97
68) 1,1,2-Trichloroethane	5.12	83	423579	89.31	ppb	99
71) Tetrachloroethene	5.25	166	657914	87.51	ppb	97
72) 2-Hexanone	5.32	43	408066	91.04	ppb	94
73) 1,3-Dichloropropane	5.26	76	979669	88.86	ppb	89
74) Dibromochloromethane	5.45	129	559519	88.47	ppb	96
75) 1,2-Dibromoethane	5.56	107	463808	88.79	ppb	99
76) Chlorobenzene	5.99	112	1879258	88.58	ppb	94
77) 1,1,1,2-Tetrachloroethane	6.05	131	609191	88.17	ppb	98
78) Ethylbenzene	6.08	91	3543183	88.20	ppb	97
79) (m+p)Xylene	6.19	106	2586628	187.70	ppb	83
80) o-Xylene	6.55	106	1199177	92.47	ppb	91
81) Styrene	6.56	104	2136948	89.03	ppb	90
82) Bromoform	6.73	173	251593	83.70	ppb	93
83) Isopropylbenzene	6.89	105	3157505	88.12	ppb	95
84) Cyclohexanone	6.99	55	912361	3506.25	ppb	98
86) 1,1,2,2-Tetrachloroethane	7.16	83	486860	88.05	ppb	99
87) Trans-1,4-Dichloro-2-buten	7.22	53	156488	74.16	ppb	99
88) 1,2,3-Trichloropropane	7.21	110	139301	77.57	ppb	99
89) n-Propylbenzene	7.28	91	3819173	88.87	ppb	96
90) Bromobenzene	7.18	156	580356	86.57	ppb	98
92) 1,3,5-Trimethylbenzene	7.45	105	2629241	90.95	ppb	96
93) 2-Chlorotoluene	7.36	91	2138811	82.60	ppb	98
94) 4-Chlorotoluene	7.47	91	2361565	75.03	ppb	93
95) tert-Butylbenzene	7.76	119	2109569	89.93	ppb	89

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

Z2142.D W060208.M Tue Jun 03 10:27:13 2008

Page 2

00283

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2142.D Vial: 14
 Acq On : 2 Jun 2008 5:10 pm Operator: Herring
 Sample : 100ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:34 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,4-Trimethylbenzene	7.81	105	2454212	87.47	ppb	96
97) sec-Butylbenzene	7.98	105	3121535	92.19	ppb	96
98) p-Isopropyltoluene	8.12	119	2653829	93.76	ppb	94
99) 1,3-Dclbenz	8.09	146	1103567	87.56	ppb	97
100) 1,4-Dclbenz	8.18	146	1108516	85.48	ppb	96
102) n-Butylbenzene	8.52	91	2455774	92.74	ppb	98
103) 1,2-Dclbenz	8.54	146	980719	88.90	ppb	97
104) 1,2-Dibromo-3-chloropropan	9.31	157	64479	93.09	ppb	91
106) 1,2,4-Tcbenzene	10.14	180	537876	85.68	ppb	100
107) Hexachlorobu	10.30	225	270438	88.64	ppb	98
108) Naphthalen	10.38	128	1245715	96.06	ppb	97
109) 1,2,3-Tclbenzene	10.60	180	456858	84.56	ppb	99

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

RJH 6/3/08

Data File : J:\ACQUDATA\MSVOAS\DATA\060208\Z2143.D Vial: 15
 Acq On : 2 Jun 2008 5:38 pm Operator: Herring
 Sample : 200ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:30 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	707791	50.00	ppb	0.01
42) 1,4 - Difluorobenzene	3.64	114	1373928	50.00	ppb	0.01
63) d5 - Chlorobenzene	5.96	117	1066558	50.00	ppb	0.02
85) d4 - Dichlorobenzene	8.15	152	409530	50.00	ppb	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) surr4,Dibrflmethane	3.12	113	1768576	197.54	ppb	0.00
Spiked Amount				50.000		
Recovery						395.08%
48) surr1,1,2-Dicethane	3.35	65	1796852	180.15	ppb	0.00
Spiked Amount				50.000		
Recovery						360.30%
69) surr3,Toluene-d8	4.75	98	6007449	206.92	ppb	0.01
Spiked Amount				50.000		
Recovery						413.84%
70) surr2,bfb	7.04	95	2097767	181.66	ppb	0.02
Spiked Amount				50.000		
Recovery						363.32%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.04	85	1455481	155.50	ppb	99
4) Chloromethane	1.14	50	2275038	174.66	ppb	97
5) Vinyl Chloride	1.20	62	2181006	189.66	ppb	98
6) Bromomethane	1.36	94	1323960	159.07	ppb	100
7) Chloroethane	1.42	64	1422475	181.03	ppb	99
8) FREON 21	1.52	67	3322868	150.34	ppb	99
9) Trichlorofluoromethane	1.56	101	2220606	143.09	ppb	100
10) Diethyl Ether	1.70	59	1238239	182.70	ppb	98
11) FREON 123A	1.69	85	755181	141.47	ppb	83
12) FREON 123	1.72	85	1534200	158.19	ppb	92
13) Acrolein	1.77	56	934548	1066.93	ppb	95
14) FREON 113	1.83	85	616944	138.84	ppb	82
15) 1,1-Dicethene	1.83	96	1505096	175.03	ppb	90
16) Acetone	1.85	43	300387	164.42	ppb	92
17) 2-Propanol	1.92	45	1067571	3593.81	ppb	93
18) Iodomethane	1.93	127	880500	139.08	ppb	67
19) Carbon Disulfide	1.97	76	5007008	169.21	ppb	97
20) Acetonitrile	2.00	40	335277	840.30	ppb	87
21) Allyl Chloride	2.03	76	963500	183.20	ppb	72
22) Methyl Acetate	2.03	43	1050972	145.19	ppb	97
23) Methylene Chloride	2.09	84	1669847	163.65	ppb	95
24) TBA	2.14	59	1575844	3662.64	ppb	94
25) Acrylonitrile	2.22	53	2105401	958.69	ppb	98
26) Methyl-t-Butyl Ether	2.24	73	3511322	171.92	ppb	# 90
27) trans-1,2-Dichloroethene	2.24	96	1745767	180.93	ppb	90
28) 1,1-Dicethane	2.48	63	3468055	166.48	ppb	99
29) DIPE	2.51	45	7315565	157.06	ppb	# 85
30) Vinyl Acetate	2.49	86	209333	210.84	ppb	# 33
31) 2-Chloro-1,3-butadiene	2.54	53	3310662	154.81	ppb	91
32) ETBE	2.72	59	5284122	170.75	ppb	97
33) 2,2-Dichloropropane	2.83	77	2310161	136.86	ppb	92
34) 2-Butanone	2.83	43	577602	172.08	ppb	99
35) cis-1,2-Dichloroethene	2.83	96	1835053	178.98	ppb	90
36) Propionitrile	2.87	54	673704	920.10	ppb	100
37) Methacrylonitrile	2.96	67	404083	177.52	ppb	96

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

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2143.D
 Acq On : 2 Jun 2008 5:38 pm
 Sample : 200ppb
 Misc : 8260B I-CAL 10mL - MS#8
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:30 2008

Vial: 15
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	2.98	128	654084	172.48	ppb	85
39) Chloroform	3.02	83	2841845	148.39	ppb	100
40) Tetrahydrofuran	3.02	42	339682	185.66	ppb	94
41) 1,1,1-Trichloroethane	3.16	97	2318004	138.19	ppb	97
44) cyclohexane	3.20	56	3652807	171.45	ppb	99
45) Carbontetrachloride	3.26	117	1917265	146.45	ppb	98
46) 1,1-Dichloropropene	3.26	75	2496840	168.58	ppb	96
47) Iso-Butyl Alcohol	3.30	43	796760	3754.61	ppb	98
49) Benzene	3.40	78	6585517	173.72	ppb	95
50) 1,2-Dichloroethane	3.40	62	1921337	138.62	ppb	# 90
51) TAME	3.46	73	3963105	181.54	ppb	95
52) N-Heptane	3.55	43	3291070	187.35	ppb	93
53) Trichloroethene	3.84	95	1631519	163.38	ppb	90
54) methylcyclohexane	3.98	55	2812848	163.78	ppb	96
55) 1,2-Diclpropane	4.00	63	1910101	179.44	ppb	100
56) Methyl Methacrylate	4.06	69	735266	176.33	ppb	87
57) 1,4-Dioxane	4.09	88	118564	3618.05	ppb	92
58) Dibromomethane	4.08	93	720682	145.29	ppb	97
59) Bromodichloromethane	4.18	83	2010380	152.76	ppb	98
60) 2-Nitropropane	4.35	43	731130	287.58	ppb	98
61) 2-Chloroethylvinyl Ether	4.40	63	754228	174.10	ppb	99
62) cis-1,3-Dichloropropene	4.53	75	2543292	170.23	ppb	97
64) 4-Methyl-2-Pentanone	4.65	43	1226042	176.48	ppb	98
65) Toluene	4.80	91	6170134	168.95	ppb	92
66) trans-1,3-Dichloropropene	4.96	75	2028527	173.99	ppb	98
67) Ethyl Methacrylate	5.03	69	1510899	185.59	ppb	98
68) 1,1,2-Trichloroethane	5.12	83	828503	180.09	ppb	97
71) Tetrachloroethene	5.25	166	1350030	185.13	ppb	97
72) 2-Hexanone	5.32	43	800124	184.03	ppb	94
73) 1,3-Dichloropropane	5.26	76	1966403	183.89	ppb	86
74) Dibromochloromethane	5.45	129	1110425	181.01	ppb	99
75) 1,2-Dibromoethane	5.56	107	907665	179.14	ppb	100
76) Chlorobenzene	5.99	112	3718479	180.69	ppb	92
77) 1,1,1,2-Tetrachloroethane	6.06	131	1206315	180.00	ppb	97
78) Ethylbenzene	6.08	91	6625077	170.03	ppb	90
79) (m+p)Xylene	6.19	106	5088236	380.66	ppb	# 59
80) o-Xylene	6.55	106	2370782	188.47	ppb	86
81) Styrene	6.56	104	4188329	179.91	ppb	88
82) Bromoform	6.73	173	497350	170.59	ppb	98
83) Isopropylbenzene	6.89	105	6261392	180.15	ppb	94
84) Cyclohexanone	6.99	55	1646128	6522.05	ppb	97
86) 1,1,2,2-Tetrachloroethane	7.17	83	953452	175.10	ppb	99
87) Trans-1,4-Dichloro-2-buten	7.22	53	293586	141.27	ppb	98
88) 1,2,3-Trichloropropane	7.21	110	267928	151.48	ppb	99
89) n-Propylbenzene	7.28	91	7160242	169.17	ppb	92
90) Bromobenzene	7.18	156	1133640	171.71	ppb	99
92) 1,3,5-Trimethylbenzene	7.45	105	5031776	176.74	ppb	94
93) 2-Chlorotoluene	7.37	91	4067939	159.51	ppb	94
94) 4-Chlorotoluene	7.47	91	5136128m	165.69	ppb	
95) tert-Butylbenzene	7.77	119	4074912	176.38	ppb	89

RJH/BS

(#) = qualifier out of range (m) = manual integration
 Z2143.D W060208.M Tue Jun 03 10:30:33 2008

Data File : J:\ACQUDATA\MSVOAS\DATA\060208\Z2143.D Vial: 15
 Acq On : 2 Jun 2008 5:38 pm Operator: Herring
 Sample : 200ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:30 2008 Quant Results File: W060208.RES

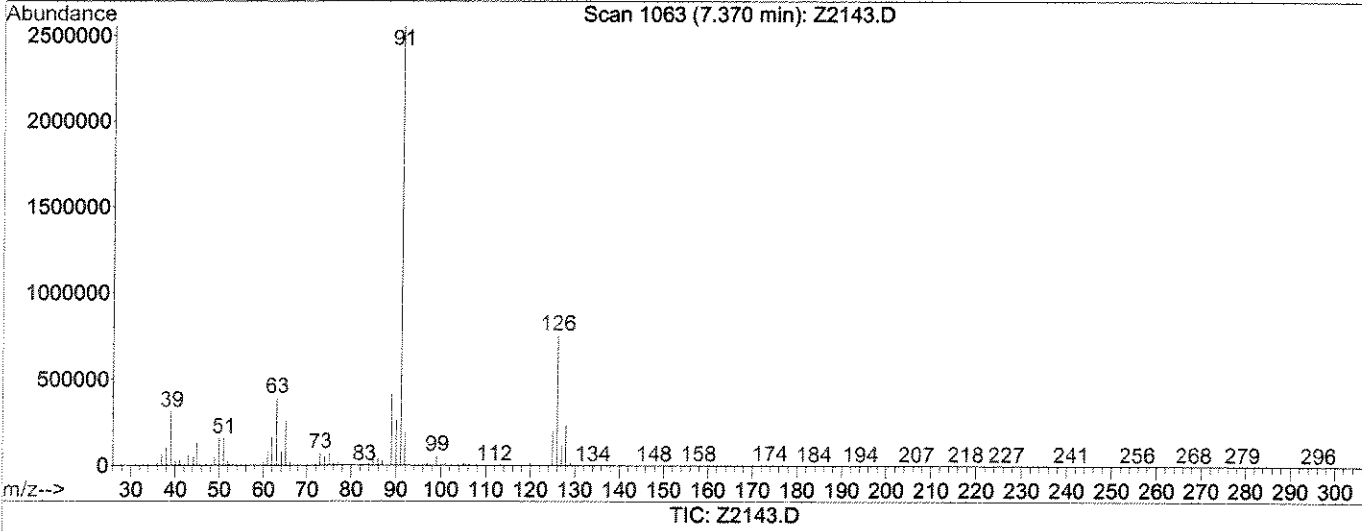
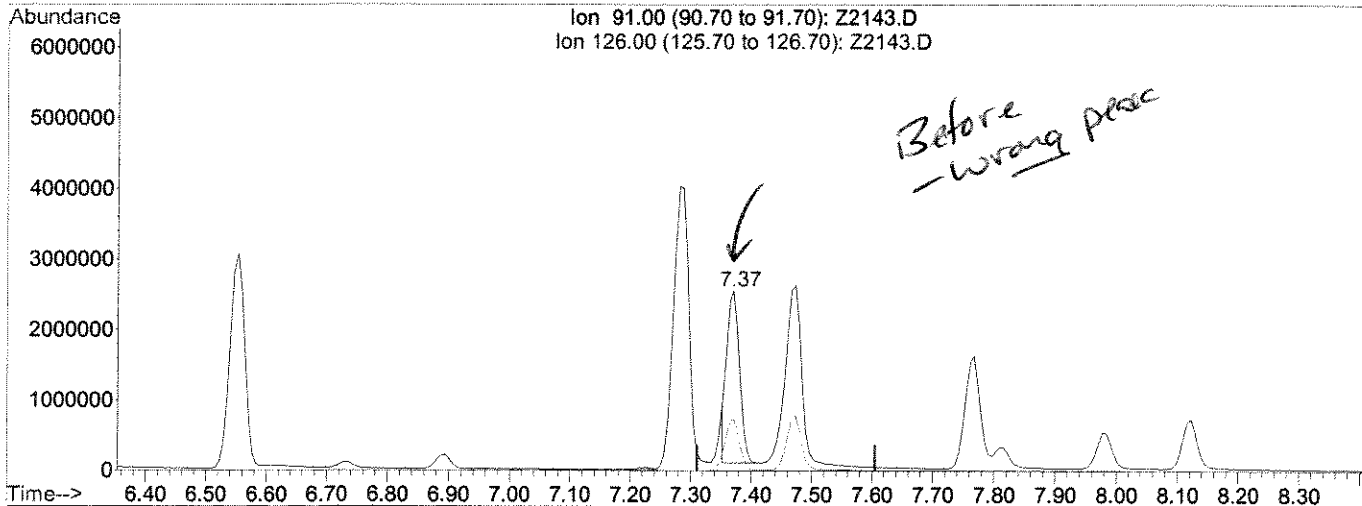
Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,4-Trimethylbenzene	7.81	105	4748653	171.86	ppb	92
97) sec-Butylbenzene	7.98	105	5996601	179.83	ppb	93
98) p-Isopropyltoluene	8.12	119	5189400	186.17	ppb	93
99) 1,3-Dclbenz	8.09	146	2197044	177.01	ppb	97
100) 1,4-Dclbenz	8.18	146	2192400	171.66	ppb	97
102) n-Butylbenzene	8.52	91	4859483	186.33	ppb	96
103) 1,2-Dclbenz	8.54	146	1952740	179.74	ppb	97
104) 1,2-Dibromo-3-chloropropan	9.31	157	125830	184.45	ppb	90
106) 1,2,4-Tcbenzene	10.14	180	1137545	183.99	ppb	97
107) Hexachlorobu	10.30	225	563532	187.55	ppb	96
108) Naphthalen	10.38	128	2520314	197.34	ppb	97
109) 1,2,3-Tclbenzene	10.60	180	955849	179.63	ppb	97

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOAS\DATA\060208\Z2143.D Vial: 15
 Acq On : 2 Jun 2008 5:38 pm Operator: Herring
 Sample : 200ppb Inst : MS #8
 Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 9:34 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOAS\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Multiple Level Calibration



(94) 4-Chlorotoluene

7.37min 116.01ppb

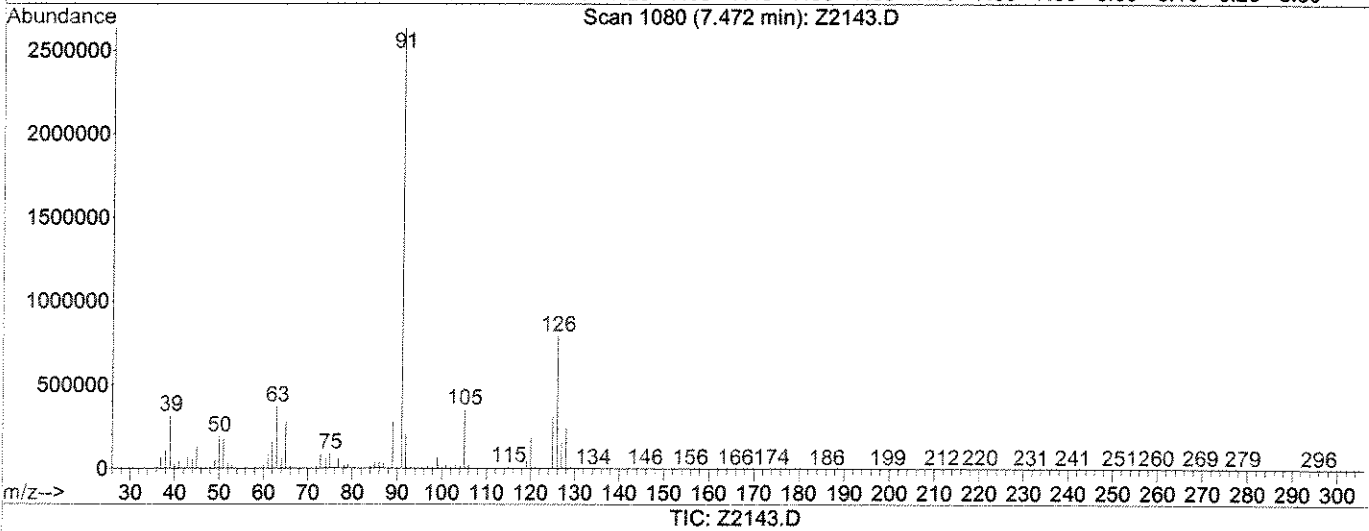
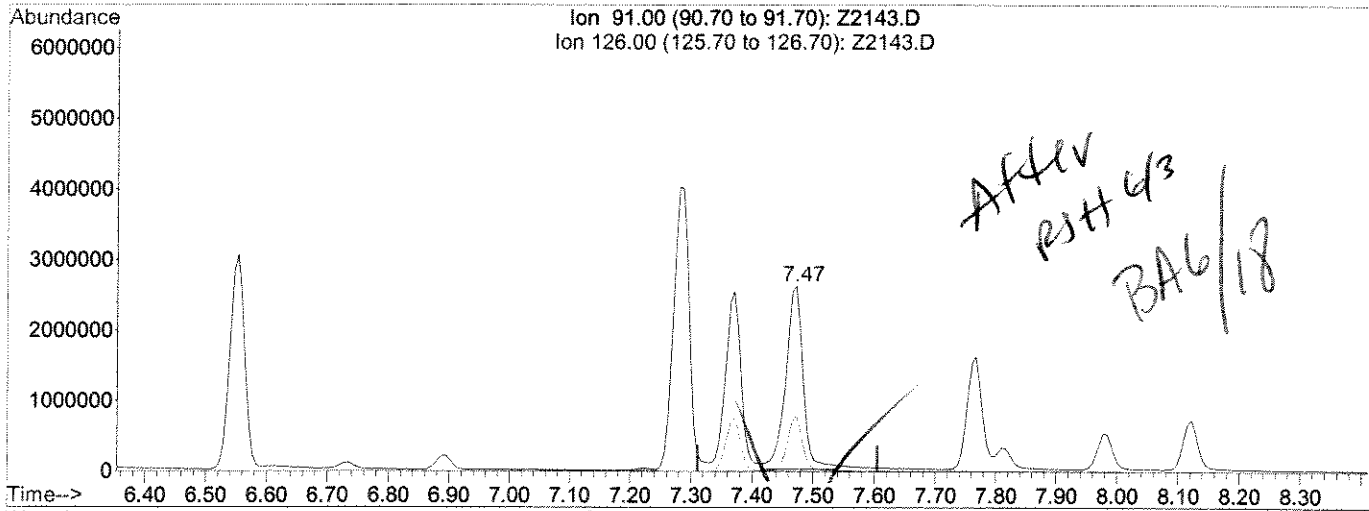
response 3596170

Ion	Exp%	Act%
91.00	100	100
126.00	24.90	29.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2143.D Vial: 15
Acq On : 2 Jun 2008 5:38 pm Operator: Herring
Sample : 200ppb Inst : MS #8
Misc : 8260B I-CAL 10mL - MS#8 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 3 10:30 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa
Last Update : Tue Jun 03 09:30:40 2008
Response via : Multiple Level Calibration



(94) 4-Chlorotoluene

7.47min 165.69ppb m

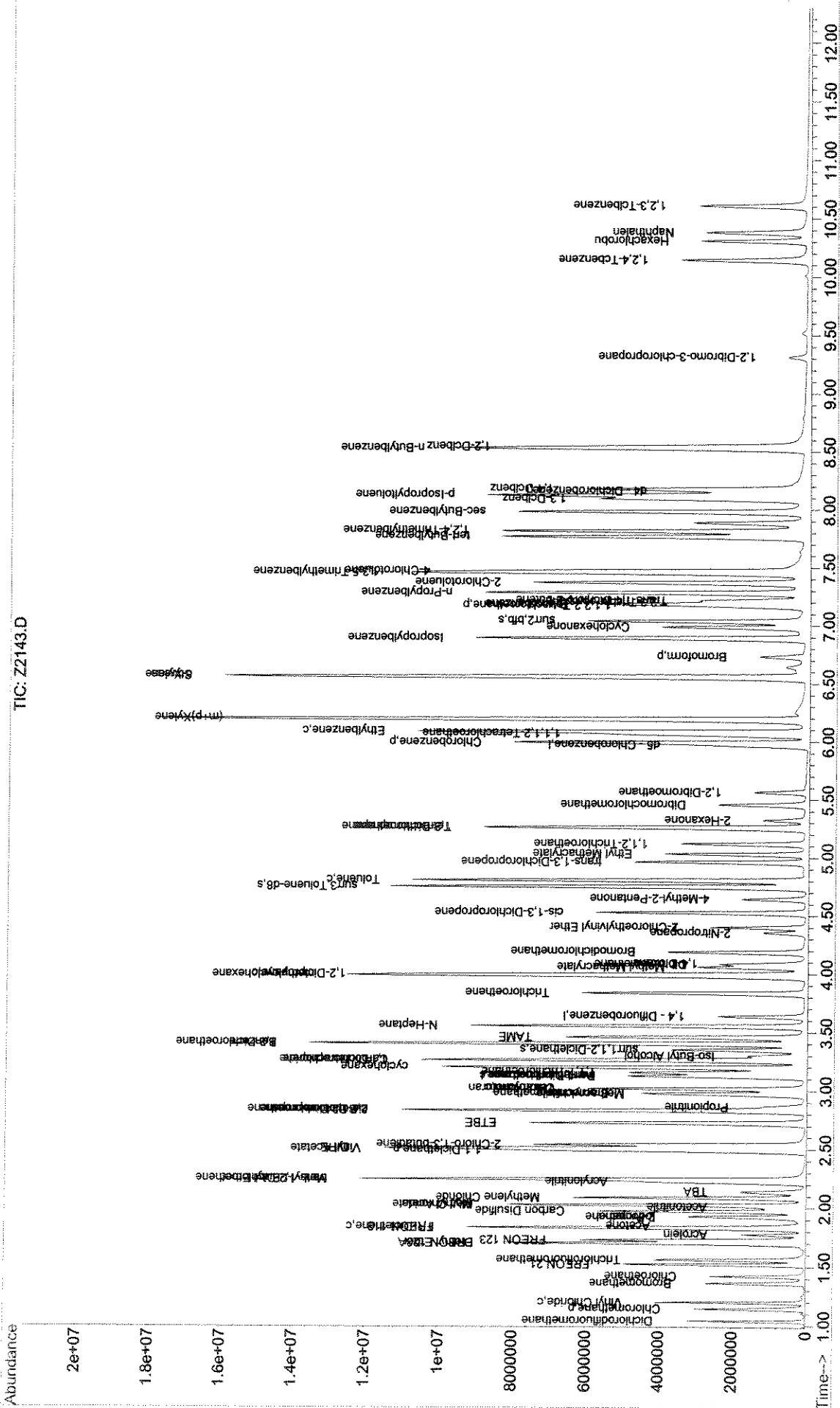
response 5136128

Ion	Exp%	Act%
91.00	100	100
126.00	24.90	30.12#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQDATA\MSVOA8\DATA\060208\Z2143.D
 Acq On : 2 Jun 2008 5:38 pm
 Sample : 200ppb
 Misc : 8260B I-CAL 10mL - MS#8
 MS Integration Params: RTEINT.P
 Quant Time: Jun 3 10:30 2008

Vial: 15
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00
 Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 09:30:40 2008
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2547.D
 Acq On : 24 Jun 2008 11:23 am
 Sample : CCV
 Misc :
 MS Integration Params: RTEINT.P

Vial: 6
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

RJT 6/24/08

	Compound	AvgRF	CCRF	<i>%diff</i>	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000		108	0.00
2	Dichlorodifluoromethane	0.508	0.492		99	0.00
3	Freon 114	0.000	0.000		101	0.00
4 p	Chloromethane	0.815	0.813		113	0.00
5 c	Vinyl Chloride	0.741	0.698		99	0.00
6	Bromomethane	0.484	0.401		103	0.02
7	Chloroethane	0.521	0.452		98	0.00
8	FREON 21	1.224	1.038		93	0.00
9	Trichlorofluoromethane	0.782	0.680		93	0.00
10	Diethyl Ether	0.425	0.366		96	0.00
11	FREON 123A	0.286	0.245		83	0.00
12	FREON 123	0.568	0.465		99	0.00
13	Acrolein	0.065	0.053		92	0.00
14	FREON 113	0.220	0.214		107	0.00
15 c	1,1-Diclcethene	0.500	0.469		101	0.00
16	Acetone	0.133	0.088	21.5	33.8#	91 0.00
17	2-Propanol	0.020	0.012		40.0#	68 -0.01
18	Iodomethane	0.227	0.277	8.0	22.0#	103 0.00
19	Carbon Disulfide	1.827	1.687		7.7	103 0.00
20	Acetonitrile	0.030	0.022		26.7#	84 0.00
21	Allyl Chloride	0.318	0.316		0.6	111 0.00
22	Methyl Acetate	0.392	0.308		21.4#	90 0.00
23	Methylene Chloride	0.617	0.570		7.6	109 0.00
24	TBA	0.028	0.018		35.7#	76 -0.02
25	Acrylonitrile	0.145	0.126		13.1	99 0.00
26	Methyl-t-Butyl Ether	1.199	1.059		11.7	98 0.00
27	trans-1,2-Dichloroethene	0.582	0.561		3.6	106 0.00
28 p	1,1-Diclcethane	1.221	1.169		4.3	105 0.00
29	DIPE	2.669	2.358		11.7	96 0.00
30	Vinyl Acetate	0.077	0.063		18.2	99 0.00
31	2-Chloro-1,3-butadiene	1.085	0.938		13.5	94 0.00
32	ETBE	1.782	1.560		12.5	95 0.00
33	2,2-Dichloropropane	0.862	0.807		6.4	104 0.00
34	2-Butanone	0.219	0.160		26.9#	86 -0.01 (exception)
35	cis-1,2-Dichloroethene	0.614	0.616		-0.3	111 0.00
36	Propionitrile	0.048	0.041		14.6	98 -0.01
37	Methacrylonitrile	0.142	0.117		17.6	96 0.00
38	Bromochloromethane	0.235	0.248		-5.5	120 0.00
39 c	Chloroform	1.006	0.942		6.4	103 0.00
40	Tetrahydrofuran	0.123	0.090		26.8#	90 0.00
41	1,1,1-Trichloroethane	0.817	0.738		9.7	98 0.00
42 I	1,4 - Difluorobenzene	1.000	1.000		0.0	99 0.00
43 s	surr4,Dibrflmethane	0.299	0.294		1.7	95 0.00
44	cyclohexane	0.615	0.649		-5.5	103 0.00
45	Carbontetrachloride	0.326	0.298		8.6	91 0.00
46	1,1-Dichloropropene	0.420	0.455		-8.3	106 0.00
47	Iso-Butyl Alcohol	0.007	0.005		28.6#	77 -0.02
48 s	surr1,1,2-Diclcethane	0.313	0.270		13.7	84 0.00
49	Benzene	1.172	1.354		-15.5	114 -0.01

RJT 6/24

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2547.D
 Acq On : 24 Jun 2008 11:23 am
 Sample : CCV
 Misc :
 MS Integration Params: RTEINT.P

Vial: 6
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level 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)
50	1,2-Dichloroethane	0.352	0.333	5.4	98	-0.01
51	TAME	0.665	0.642	3.5	99	0.00
52	N-Heptane	0.548	0.634	-15.7	111	0.00
53	Trichloroethene	0.284	0.302	-6.3	107	-0.01
54	methylcyclohexane	0.488	0.505	-3.5	102	0.00
55 c	1,2-Diclp propane	0.332	0.362	-9.0	111	-0.01
56	Methyl Methacrylate	0.128	0.108	15.6	91	-0.01
57	1,4-Dioxane	0.001	0.001	0.0	77	-0.01
58	Dibromomethane	0.138	0.132	4.3	105	0.00
59	Bromodichloromethane	0.355	0.355	0.0	103	0.00
60	2-Nitropropane	0.063	0.049	22.2#	83	0.00
61	2-Chloroethylvinyl Ether	0.137	0.139	-1.5	109	0.00
62	cis-1,3-Dichloropropene	0.433	0.460	-6.2	108	-0.01
63 I	d5 - Chlorobenzene	1.000	1.000	0.0	106	-0.01
64	4-Methyl-2-Pentanone	0.282	0.226	19.9	92	-0.02
65 c	Toluene	1.386	1.548	-11.7	119	-0.01
66	trans-1,3-Dichloropropene	0.441	0.422	4.3	106	0.00
67	Ethyl Methacrylate	0.335	0.272	18.8	94	-0.01
68	1,1,2-Trichloroethane	0.191	0.191	0.0	113	0.00
69 s	surr3,Toluene-d8	1.291	1.308	-1.3	104	-0.01
70 s	surr2,bfb	0.458	0.492	-7.4	109	-0.02
71	Tetrachloroethene	0.280	0.341	-21.8#	128	-0.01
72	2-Hexanone	0.183	0.149	18.6	90	0.00
73	1,3-Dichloropropane	0.435	0.423	2.8	109	0.00
74	Dibromochloromethane	0.246	0.242	1.6	107	0.00
75	1,2-Dibromoethane	0.207	0.204	1.4	110	0.00
76 p	Chlorobenzene	0.828	0.936	-13.0	121	-0.01
77	1,1,1,2-Tetrachloroethane	0.265	0.280	-5.7	112	-0.01
78 c	Ethylbenzene	1.474	1.669	-13.2	115	-0.01
79	(m+p)Xylene	0.537	0.634	-18.1	121	-0.02
80	o-Xylene	0.502	0.591	-17.7	122	-0.01
81	Styrene	0.865	1.025	-18.5	119	-0.02
82 p	Bromoform	0.105	0.114	-8.6	116	0.00
83	Isopropylbenzene	1.335	1.538	-15.2	116	-0.01
84	Cyclohexanone	0.020	0.017	15.0	91	-0.01
85 I	d4 - Dichlorobenzene	1.000	1.000	0.0	117	-0.01
86 p	1,1,2,2-Tetrachloroethane	0.590	0.531	10.0	113	-0.01
87	Trans-1,4-Dichloro-2-butene	0.189	0.096	49.2#	65	-0.01
88	1,2,3-Trichloropropane	0.170	0.135	20.6#	104	-0.01
89	n-Propylbenzene	4.183	4.493	-7.4	119	-0.01
90	Bromobenzene	0.650	0.731	-12.5	135	-0.01
91	4-Ethyltoluene	0.000	0.000	0.0	118	-0.01
92	1,3,5-Trimethylbenzene	2.827	2.869	-1.5	118	-0.01
93	2-Chlorotoluene	2.424	2.408	0.7	121	-0.02
94	4-Chlorotoluene	2.773	3.062	-10.4	124	-0.01
95	tert-Butylbenzene	2.373	2.518	-6.1	122	-0.01
96	1,2,4-Trimethylbenzene	2.725	2.914	-6.9	123	-0.02
97	sec-Butylbenzene	3.473	3.977	-14.5	129	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2547.D Vial: 6
 Acq On : 24 Jun 2008 11:23 am Operator: Herring
 Sample : CCV Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level 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)
98	p-Isopropyltoluene	2.946	3.232	-9.7	122	-0.01
99	1,3-Dclbenz	1.247	1.416	-13.6	133	-0.01
100	1,4-Dclbenz	1.285	1.417	-10.3	133	-0.01
101	Benzyl Chloride	0.000	0.000	0.0	123	-0.01
102	n-Butylbenzene	2.679	2.994	-11.8	124	-0.01
103	1,2-Dclbenz	1.118	1.254	-12.2	136	-0.01
104	1,2-Dibromo-3-chloropropane	0.073	0.075	-2.7	125	-0.01
105	Nitrobenzene	0.000	0.000	0.0	80	-0.02
106	1,2,4-Tcbenzene	0.585	0.681	-16.4	137	-0.01
107	Hexachlorobu	0.308	0.342	-11.0	127	-0.01
108	Naphthalen	1.348	1.490	-10.5	129	-0.01
109	1,2,3-Tclbenzene	0.498	0.573	-15.1	133	-0.01

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2547.D
 Acq On : 24 Jun 2008 11:23 am
 Sample : CCV
 Misc :

Vial: 6
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Jun 24 11:36 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)

Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

RJH 4/24

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	727702	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1346405	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.95	117	1155350	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	495614	50.00	ppb	-0.01

System Monitoring Compounds

43) surr4,Dibrflmethane	3.12	113	395211	49.13	ppb	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
48) surr1,1,2-Dicethane	3.34	65	363647	43.17	ppb	0.00
Spiked Amount	50.000		Recovery	=	86.34%	
69) surr3,Toluene-d8	4.74	98	1511140	50.67	ppb	-0.01
Spiked Amount	50.000		Recovery	=	101.34%	
70) surr2,bfb	7.02	95	568221	53.75	ppb	-0.02
Spiked Amount	50.000		Recovery	=	107.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.04	85	357903	48.45	ppb	98
4) Chloromethane	1.14	50	591763	49.88	ppb	100
5) Vinyl Chloride	1.20	62	508275	47.13	ppb	99
6) Bromomethane	1.38	94	292056	41.49	ppb	99
7) Chloroethane	1.43	64	329122	43.44	ppb	98
8) FREON 21	1.52	67	755514	42.42	ppb	99
9) Trichlorofluoromethane	1.56	101	495168	43.51	ppb	100
10) Diethyl Ether	1.70	59	266121	43.07	ppb	99
11) FREON 123A	1.70	85	178330	42.86	ppb	88
12) FREON 123	1.73	85	338449	40.95	ppb	92
13) Acrolein	1.77	56	194278	206.63	ppb	99
14) FREON 113	1.83	85	155637	48.50	ppb	94
15) 1,1-Dicethene	1.83	96	341335	46.87	ppb	100
16) Acetone	1.85	43	63746	39.26	ppb	95
17) 2-Propanol	1.91	45	172757	598.54	ppb	95
18) Iodomethane	1.92	127	201518	45.99	ppb	69
19) Carbon Disulfide	1.97	76	1227745	46.18	ppb	100
20) Acetonitrile	2.00	40	80610	186.09	ppb	98
21) Allyl Chloride	2.02	76	229970	49.62	ppb	86
22) Methyl Acetate	2.02	43	223850	39.26	ppb	96
23) Methylene Chloride	2.09	84	414868	46.20	ppb	97
24) TBA	2.12	59	264921	640.79	ppb	96
25) Acrylonitrile	2.21	53	459535	217.71	ppb	98
26) Methyl-t-Butyl Ether	2.24	73	770472	44.14	ppb	95
27) trans-1,2-Dichloroethene	2.24	96	408559	48.24	ppb	98
28) 1,1-Dicethane	2.48	63	850547	47.87	ppb	99
29) DIPE	2.50	45	1716273	44.19	ppb	99
30) Vinyl Acetate	2.49	86	46138	41.30	ppb	79
31) 2-Chloro-1,3-butadiene	2.53	53	682658	43.22	ppb	94
32) ETBE	2.72	59	1135560	43.79	ppb	99
33) 2,2-Dichloropropane	2.83	77	587299	46.81	ppb	96
34) 2-Butanone	2.82	43	116269	36.48	ppb	96
35) cis-1,2-Dichloroethene	2.82	96	448248	50.15	ppb	94
36) Propionitrile	2.86	54	148157	214.28	ppb	96
37) Methacrylonitrile	2.96	67	85111	41.15	ppb	93

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

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2547.D

Vial: 6

Acq On : 24 Jun 2008 11:23 am

Operator: Herring

Sample : CCV

Inst : MS #8

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 24 11:36 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)

Title : 8260voa

Last Update : Tue Jun 03 13:30:30 2008

Response via : Initial Calibration

DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	2.98	128	180778	52.89	ppb	90
39) Chloroform	3.01	83	685783	46.86	ppb	100
40) Tetrahydrofuran	3.01	42	65560	36.74	ppb	96
41) 1,1,1-Trichloroethane	3.15	97	537223	45.16	ppb	99
44) cyclohexane	3.19	56	873674	52.76	ppb	99
45) Carbontetrachloride	3.26	117	401757	45.82	ppb	98
46) 1,1-Dichloropropene	3.25	75	612818	54.21	ppb	98
47) Iso-Butyl Alcohol	3.28	43	142927	744.31	ppb	95
49) Benzene	3.39	78	1823672	57.80	ppb	100
50) 1,2-Dichloroethane	3.39	62	448066	47.26	ppb	99
51) TAME	3.45	73	864672	48.31	ppb	95
52) N-Heptane	3.55	43	853002	57.81	ppb	97
53) Trichloroethene	3.82	95	406815	53.15	ppb	88
54) methylcyclohexane	3.97	55	679357	51.66	ppb	94
55) 1,2-Diclpropane	3.99	63	486739	54.40	ppb	99
56) Methyl Methacrylate	4.05	69	145931	42.41	ppb	80
57) 1,4-Dioxane	4.08	88	20367	662.71	ppb	83
58) Dibromomethane	4.08	93	178099	48.01	ppb #	90
59) Bromodichloromethane	4.18	83	477541	49.96	ppb	98
60) 2-Nitropropane	4.35	43	131584	77.06	ppb	98
61) 2-Chloroethylvinyl Ether	4.40	63	186694	50.48	ppb	96
62) cis-1,3-Dichloropropene	4.52	75	619908	53.15	ppb	98
64) 4-Methyl-2-Pentanone	4.63	43	260572	39.96	ppb	100
65) Toluene	4.79	91	1788310	55.84	ppb	99
66) trans-1,3-Dichloropropene	4.95	75	487676	47.81	ppb	96
67) Ethyl Methacrylate	5.02	69	314077	40.59	ppb	98
68) 1,1,2-Trichloroethane	5.11	83	220443	49.91	ppb	97
71) Tetrachloroethene	5.24	166	393918	60.82	ppb	93
72) 2-Hexanone	5.32	43	172533	40.74	ppb	98
73) 1,3-Dichloropropene	5.26	76	489101	48.66	ppb	86
74) Dibromochloromethane	5.45	129	279370	49.17	ppb	96
75) 1,2-Dibromoethane	5.56	107	235496	49.14	ppb	97
76) Chlorobenzene	5.98	112	1081672	56.55	ppb	95
77) 1,1,1,2-Tetrachloroethane	6.05	131	323811	52.90	ppb	95
78) Ethylbenzene	6.07	91	1928643	56.62	ppb	100
79) (m+p)Xylene	6.18	106	1464091	118.08	ppb	97
80) o-Xylene	6.54	106	683230	58.92	ppb	97
81) Styrene	6.55	104	1183844	59.21	ppb	99
82) Bromoform	6.72	173	132018	54.53	ppb	95
83) Isopropylbenzene	6.88	105	1776756	57.61	ppb	100
84) Cyclohexanone	6.97	55	404327	886.93	ppb	95
86) 1,1,2,2-Tetrachloroethane	7.16	83	262951	44.98	ppb	99
87) Trans-1,4-Dichloro-2-buten	7.21	53	47519	25.41	ppb	83
88) 1,2,3-Trichloropropene	7.20	110	67116	39.72	ppb	93
89) n-Propylbenzene	7.27	91	2226973	53.71	ppb	99
90) Bromobenzene	7.17	156	362333	56.22	ppb	86
92) 1,3,5-Trimethylbenzene	7.44	105	1421747	50.74	ppb	93
93) 2-Chlorotoluene	7.35	91	1193296	49.66	ppb	99
94) 4-Chlorotoluene	7.46	91	1517443	55.20	ppb	95
95) tert-Butylbenzene	7.76	119	1247959	53.05	ppb	94

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

Z2547.D W060208.M

Tue Jun 24 11:36:27 2008

Page 2

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Data File : J:\ACQUDATA\MSVOAS\DATA\062408\Z2547.D
 Acq On : 24 Jun 2008 11:23 am
 Sample : CCV
 Misc :

Vial: 6
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Jun 24 11:36 2008

Quant Results File: W060208.RES

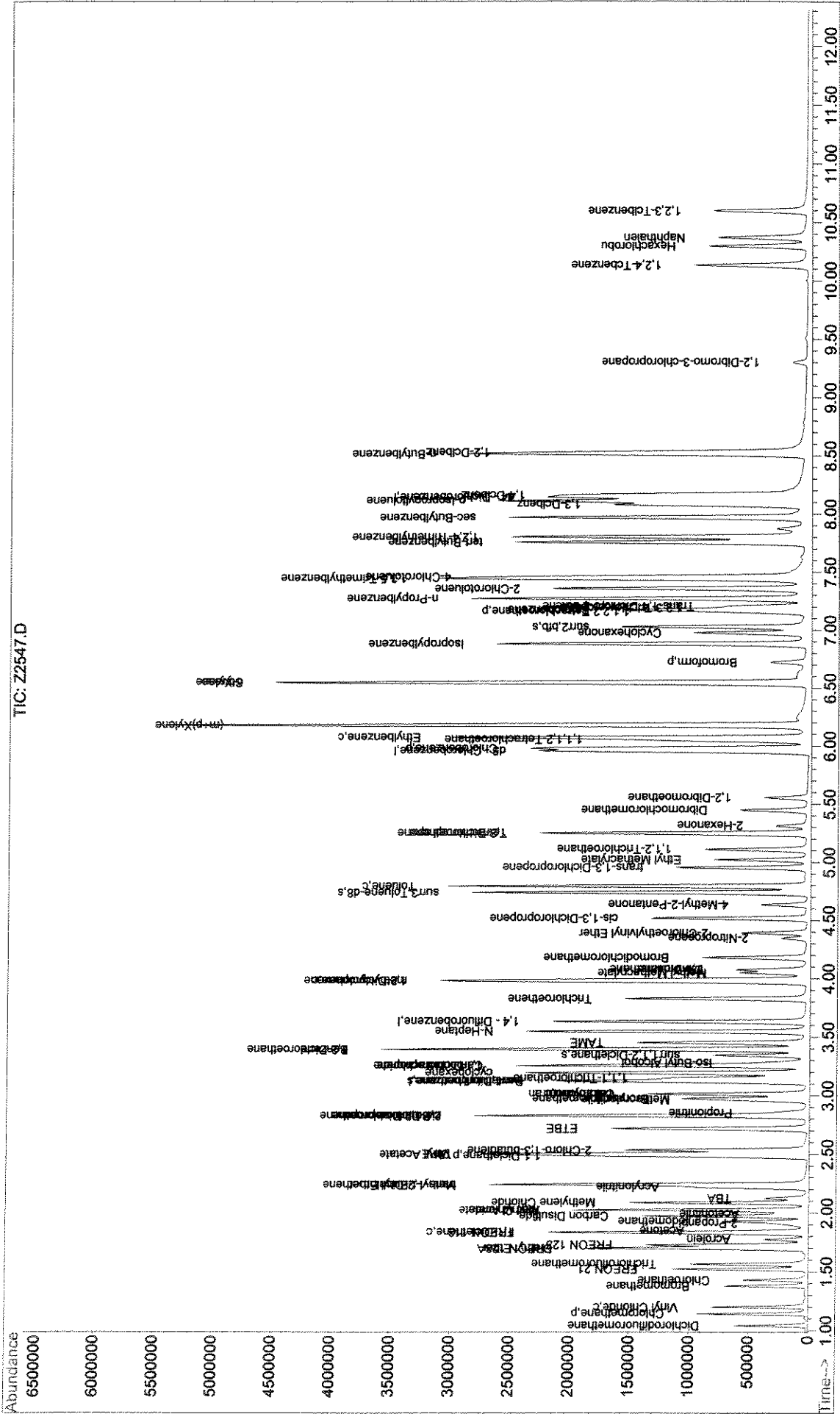
Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,4-Trimethylbenzene	7.80	105	1444099	53.47	ppb	96
97) sec-Butylbenzene	7.97	105	1970811	57.25	ppb	100
98) p-Isopropyltoluene	8.11	119	1602037	54.87	ppb	97
99) 1,3-Dclbenz	8.08	146	701838	56.76	ppb	95
100) 1,4-Dclbenz	8.16	146	702508	55.15	ppb	94
102) n-Butylbenzene	8.51	91	1483798	55.87	ppb	97
103) 1,2-Dclbenz	8.53	146	621564	56.10	ppb	96
104) 1,2-Dibromo-3-chloropropan	9.30	157	37025	50.83	ppb	86
106) 1,2,4-Tcbenzene	10.13	180	337328	58.19	ppb	97
107) Hexachlorobu	10.29	225	169481	55.53	ppb	99
108) Naphthalen	10.37	128	738498	55.26	ppb	97
109) 1,2,3-Tclbenzene	10.59	180	283887	57.51	ppb	99

Data File : J:\ACQDATA\MSVOA8\DATA\062408\Z2547.D
 Acq On : 24 Jun 2008 11:23 am
 Sample : CCV
 Misc :
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 11:36 2008

Vial: 6
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00
 Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260v0a
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2576.D
 Acq On : 25 Jun 2008 10:52 am
 Sample : CCV
 Misc :
 MS Integration Params: RTEINT.P

Vial: 5
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration

*BH
6/24/08*

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 <i>2drift</i>	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	111	0.00
2	Dichlorodifluoromethane	0.508	0.485	4.5	100	0.00
3	Freon 114	0.000	0.000	0.0	100	0.00
4 p	Chloromethane	0.815	0.786	3.6	112	0.00
5 c	Vinyl Chloride	0.741	0.690	6.9	100	0.00
6	Bromomethane	0.484	0.391	19.2	103	0.02
7	Chloroethane	0.521	0.448	14.0	99	0.00
8	FREON 21	1.224	1.464	-19.6	134	0.00
9	Trichlorofluoromethane	0.782	0.668	14.6	94	0.00
10	Diethyl Ether	0.425	0.374	12.0	100	0.00
11	FREON 123A	0.286	0.357	-24.8#	124	0.00
12	FREON 123	0.568	0.667	-17.4	145	0.00
13	Acrolein	0.065	0.055	15.4	98	0.00
14	FREON 113	0.220	0.218	0.9	111	0.00
15 c	1,1-Diclcethene	0.500	0.471	5.8	104	0.00
16	Acetone	0.133	0.098 <i>11.5</i>	26.3#	104	0.00
17	2-Propanol	0.020	0.022	-10.0	131	-0.01
18	Iodomethane	0.227	0.318 <i>4.8</i>	40.1#	120	0.00
19	Carbon Disulfide	1.827	1.839	-0.7	115	0.00
20	Acetonitrile	0.030	0.025	16.7	98	0.00
21	Allyl Chloride	0.318	0.303	4.7	109	0.00
22	Methyl Acetate	0.392	0.433	-10.5	129	0.00
23	Methylene Chloride	0.617	0.571	7.5	112	0.00
24	TBA	0.028	0.023	17.9	98	-0.01
25	Acrylonitrile	0.145	0.129	11.0	104	0.00
26	Methyl-t-Butyl Ether	1.199	1.069	10.8	102	0.00
27	trans-1,2-Dichloroethene	0.582	0.553	5.0	107	0.00
28 p	1,1-Diclcethane	1.221	1.160	5.0	107	0.00
29	DIPE	2.669	2.519	5.6	105	0.00
30	Vinyl Acetate	0.077	0.063	18.2	101	0.00
31	2-Chloro-1,3-butadiene	1.085	1.036	4.5	106	0.00
32	ETBE	1.782	1.644	7.7	103	0.00
33	2,2-Dichloropropane	0.862	0.787	8.7	104	0.00
34	2-Butanone	0.219	0.174	20.5#	96	-0.01
35	cis-1,2-Dichloroethene	0.614	0.605	1.5	112	0.00
36	Propionitrile	0.048	0.044	8.3	108	-0.01
37	Methacrylonitrile	0.142	0.118	16.9	99	0.00
38	Bromochloromethane	0.235	0.249	-6.0	123	-0.01
39 c	Chloroform	1.006	0.926	8.0	104	0.00
40	Tetrahydrofuran	0.123	0.100	18.7	102	0.00
41	1,1,1-Trichloroethane	0.817	0.708	13.3	96	-0.01
42 I	1,4 - Difluorobenzene	1.000	1.000	0.0	101	0.00
43 s	surr4,Dibrflmethane	0.299	0.288	3.7	95	0.00
44	cyclohexane	0.615	0.942	-53.2#	152	0.00
45	Carbontetrachloride	0.326	0.294	9.8	91	0.00
46	1,1-Dichloropropene	0.420	0.450	-7.1	107	0.00
47	Iso-Butyl Alcohol	0.007	0.007	0.0	101	-0.02
48 s	surr1,1,2-Diclcethane	0.313	0.266	15.0	84	0.00
49	Benzene	1.172	1.350	-15.2	116	-0.01

> RJH 4/26

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2576.D Vial: 5
 Acq On : 25 Jun 2008 10:52 am Operator: Herring
 Sample : CCV Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level 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)
50	1,2-Dichloroethane	0.352	0.335	4.8	100	-0.01
51	TAME	0.665	0.692	-4.1	109	0.00
52	N-Heptane	0.548	0.646	-17.9	116	0.00
53	Trichloroethene	0.284	0.299	-5.3	108	-0.01
54	methylcyclohexane	0.488	0.730	-49.6#	151	0.00
55 c	1,2-Diclp propane	0.332	0.364	-9.6	114	-0.01
56	Methyl Methacrylate	0.128	0.110	14.1	94	-0.01
57	1,4-Dioxane	0.001	0.001	0.0	112	-0.01
58	Dibromomethane	0.138	0.134	2.9	108	0.00
59	Bromodichloromethane	0.355	0.352	0.8	104	0.00
60	2-Nitropropane	0.063	0.053	15.9	92	0.00
61	2-Chloroethylvinyl Ether	0.137	0.143	-4.4	115	-0.01
62	cis-1,3-Dichloropropene	0.433	0.466	-7.6	111	-0.01
63 I	d5 - Chlorobenzene	1.000	1.000	0.0	108	-0.01
64	4-Methyl-2-Pentanone	0.282	0.238	15.6	99	-0.01
65 c	Toluene	1.386	1.521	-9.7	120	-0.01
66	trans-1,3-Dichloropropene	0.441	0.416	5.7	106	0.00
67	Ethyl Methacrylate	0.335	0.273	18.5	97	-0.01
68	1,1,2-Trichloroethane	0.191	0.191	0.0	116	-0.01
69 s	surr3,Toluene-d8	1.291	1.312	-1.6	106	-0.01
70 s	surr2,bfb	0.458	0.498	-8.7	113	-0.02
71	Tetrachloroethene	0.280	0.346	-23.6#	133	-0.01
72	2-Hexanone	0.183	0.154	15.8	96	0.00
73	1,3-Dichloropropene	0.435	0.421	3.2	111	-0.01
74	Dibromochloromethane	0.246	0.243	1.2	110	0.00
75	1,2-Dibromoethane	0.207	0.208	-0.5	115	0.00
76 p	Chlorobenzene	0.828	0.926	-11.8	123	-0.02
77	1,1,1,2-Tetrachloroethane	0.265	0.283	-6.8	116	-0.02
78 c	Ethylbenzene	1.474	1.684	-14.2	119	-0.01
79	(m+p)Xylene	0.537	0.629	-17.1	123	-0.02
80	o-Xylene	0.502	0.591	-17.7	125	-0.01
81	Styrene	0.865	1.016	-17.5	121	-0.02
82 p	Bromoform	0.105	0.118	-12.4	122	-0.01
83	Isopropylbenzene	1.335	1.550	-16.1	120	-0.01
84	Cyclohexanone	0.020	0.024	-20.0	125	-0.01
85 I	d4 - Dichlorobenzene	1.000	1.000	0.0	122	-0.01
86 p	1,1,2,2-Tetrachloroethane	0.590	0.532	9.8	118	-0.02
87	Trans-1,4-Dichloro-2-butene	0.189	0.099	47.6#	70	-0.01
88	1,2,3-Trichloropropene	0.170	0.139	18.2	112	-0.01
89	n-Propylbenzene	4.183	4.437	-6.1	123	-0.01
90	Bromobenzene	0.650	0.724	-11.4	139	-0.01
91	4-Ethyltoluene	0.000	0.000	0.0	123	-0.01
92	1,3,5-Trimethylbenzene	2.827	2.876	-1.7	123	-0.01
93	2-Chlorotoluene	2.424	2.385	1.6	124	-0.02
94	4-Chlorotoluene	2.773	2.627	5.3	111	-0.02
95	tert-Butylbenzene	2.373	2.503	-5.5	126	-0.02
96	1,2,4-Trimethylbenzene	2.725	2.856	-4.8	125	-0.02
97	sec-Butylbenzene	3.473	3.973	-14.4	134	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2576.D Vial: 5
 Acq On : 25 Jun 2008 10:52 am Operator: Herring
 Sample : CCV Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level 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)
98 p-Isopropyltoluene	2.946	3.224	-9.4	127	-0.02
99 1,3-Dclbenz	1.247	1.429	-14.6	140	-0.02
100 1,4-Dclbenz	1.285	1.405	-9.3	137	-0.01
101 Benzyl Chloride	0.000	0.000	0.0	128	-0.01
102 n-Butylbenzene	2.679	2.965	-10.7	128	-0.01
103 1,2-Dclbenz	1.118	1.254	-12.2	141	-0.01
104 1,2-Dibromo-3-chloropropane	0.073	0.075	-2.7	131	-0.01
105 Nitrobenzene	0.000	0.000	0.0	92	-0.01
106 1,2,4-Tcbenzene	0.585	0.666	-13.8	140	-0.01
107 Hexachlorobu	0.308	0.326	-5.8	126	-0.01
108 Naphthalen	1.348	1.421	-5.4	128	-0.01
109 1,2,3-Tclbenzene	0.498	0.590	-18.5	143	-0.01

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2576.D
 Acq On : 25 Jun 2008 10:52 am
 Sample : CCV
 Misc :
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 11:04 2008

Vial: 5
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Rmt 6/25

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	744985	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1372539	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.95	117	1181376	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	516424	50.00	ppb	-0.01
System Monitoring Compounds						
43) surr4,Dibrflmethane	3.11	113	395442	48.23	ppb	0.00
Spiked Amount	50.000		Recovery	=	96.46%	
48) surr1,1,2-Dicethane	3.34	65	364456	42.44	ppb	0.00
Spiked Amount	50.000		Recovery	=	84.88%	
69) surr3,Toluene-d8	4.74	98	1550090	50.83	ppb	-0.01
Spiked Amount	50.000		Recovery	=	101.66%	
70) surr2,bfb	7.02	95	588469	54.44	ppb	-0.02
Spiked Amount	50.000		Recovery	=	108.88%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.04	85	361233	47.76	ppb	99
4) Chloromethane	1.14	50	585766	48.23	ppb	99
5) Vinyl Chloride	1.20	62	514337	46.59	ppb	99
6) Bromomethane	1.38	94	291188	40.41	ppb	96
7) Chloroethane	1.42	64	333884	43.05	ppb	96
8) FREON 21	1.52	67	1090836	59.82	ppb	98
9) Trichlorofluoromethane	1.56	101	497330	42.68	ppb	97
10) Diethyl Ether	1.70	59	278726	44.06	ppb	98
11) FREON 123A	1.70	85	266310	62.52	ppb	88
12) FREON 123	1.73	85	496602	58.70	ppb	96
13) Acrolein	1.77	56	206456	214.48	ppb	99
14) FREON 113	1.82	85	162050	49.33	ppb	96
15) 1,1-Dicethene	1.83	96	351072	47.09	ppb	95
16) Acetone	1.85	43	73063	44.23	ppb	99
17) 2-Propanol	1.91	45	333041	1127.09	ppb	100
18) Iodomethane	1.92	127	236577	52.40	ppb	67
19) Carbon Disulfide	1.97	76	1369678	50.32	ppb	100
20) Acetonitrile	2.00	40	94524	213.15	ppb	96
21) Allyl Chloride	2.02	76	225740	47.58	ppb	84
22) Methyl Acetate	2.02	43	322644	55.27	ppb	96
23) Methylene Chloride	2.09	84	425696	46.31	ppb	92
24) TBA	2.13	59	341968	807.96	ppb	94
25) Acrylonitrile	2.21	53	480596	222.41	ppb	99
26) Methyl-t-Butyl Ether	2.24	73	796723	44.59	ppb	97
27) trans-1,2-Dichloroethene	2.24	96	411919	47.51	ppb	97
28) 1,1-Dicethane	2.48	63	864548	47.53	ppb	98
29) DIPE	2.50	45	1876702	47.20	ppb	98
30) Vinyl Acetate	2.49	86	47137	41.21	ppb	89
31) 2-Chloro-1,3-butadiene	2.53	53	771696	47.73	ppb	93
32) ETBE	2.72	59	1225121	46.15	ppb	99
33) 2,2-Dichloropropane	2.83	77	586291	45.64	ppb	97
34) 2-Butanone	2.82	43	129668	39.75	ppb	93
35) cis-1,2-Dichloroethene	2.82	96	450929	49.28	ppb	94
36) Propionitrile	2.86	54	162858	230.08	ppb	96
37) Methacrylonitrile	2.96	67	87723	41.43	ppb	89

(#) = qualifier out of range (m) = manual integration
 Z2576.D W060208.M Wed Jun 25 11:04:47 2008

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2576.D

Vial: 5

Acq On : 25 Jun 2008 10:52 am

Operator: Herring

Sample : CCV

Inst : MS #8

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 25 11:04 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)

Title : 8260voa

Last Update : Tue Jun 03 13:30:30 2008

Response via : Initial Calibration

DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	2.97	128	185611	53.04	ppb	97
39) Chloroform	3.01	83	689919	46.05	ppb	97
40) Tetrahydrofuran	3.01	42	74230	40.63	ppb	99
41) 1,1,1-Trichloroethane	3.14	97	527217	43.29	ppb	97
44) cyclohexane	3.19	56	1292647	76.57	ppb	97
45) Carbontetrachloride	3.26	117	403236	45.12	ppb	95
46) 1,1-Dichloropropene	3.25	75	617909	53.62	ppb	98
47) Iso-Butyl Alcohol	3.28	43	187944	960.10	ppb	99
49) Benzene	3.39	78	1853358	57.62	ppb	99
50) 1,2-Dichloroethane	3.39	62	459895	47.58	ppb	99
51) TAME	3.45	73	949912	52.06	ppb	96
52) N-Heptane	3.55	43	886091	58.91	ppb	98
53) Trichloroethene	3.82	95	410792	52.64	ppb	86
54) methylcyclohexane	3.97	55	1001793	74.73	ppb	95
55) 1,2-Diclpropane	3.99	63	499466	54.76	ppb	95
56) Methyl Methacrylate	4.05	69	151454	43.17	ppb	82
57) 1,4-Dioxane	4.08	88	29620	945.43	ppb	93
58) Dibromomethane	4.08	93	183344	48.48	ppb	89
59) Bromodichloromethane	4.18	83	483746	49.64	ppb	98
60) 2-Nitropropane	4.35	43	145843	83.79	ppb	97
61) 2-Chloroethylvinyl Ether	4.39	63	196509	52.12	ppb	100
62) cis-1,3-Dichloropropene	4.51	75	639042	53.74	ppb	97
64) 4-Methyl-2-Pentanone	4.63	43	281458	42.22	ppb	98
65) Toluene	4.79	91	1796920	54.87	ppb	98
66) trans-1,3-Dichloropropene	4.95	75	491054	47.08	ppb	96
67) Ethyl Methacrylate	5.02	69	322978	40.82	ppb	99
68) 1,1,2-Trichloroethane	5.10	83	226026	50.04	ppb	98
71) Tetrachloroethene	5.24	166	408994	61.75	ppb	94
72) 2-Hexanone	5.31	43	182418	42.13	ppb	92
73) 1,3-Dichloropropene	5.25	76	497687	48.42	ppb	89
74) Dibromochloromethane	5.45	129	287144	49.42	ppb	97
75) 1,2-Dibromoethane	5.55	107	245382	50.08	ppb	100
76) Chlorobenzene	5.98	112	1093477	55.91	ppb	97
77) 1,1,1,2-Tetrachloroethane	6.04	131	333808	53.33	ppb	96
78) Ethylbenzene	6.07	91	1989030	57.10	ppb	99
79) (m+p)Xylene	6.17	106	1485402	117.16	ppb	98
80) o-Xylene	6.54	106	698588	58.92	ppb	92
81) Styrene	6.55	104	1200521	58.72	ppb	98
82) Bromoform	6.72	173	138860	56.09	ppb	95
83) Isopropylbenzene	6.88	105	1831105	58.06	ppb	98
84) Cyclohexanone	6.97	55	555517	1191.73	ppb	94
86) 1,1,2,2-Tetrachloroethane	7.15	83	274931	45.14	ppb	100
87) Trans-1,4-Dichloro-2-buten	7.21	53	51089	26.22	ppb	84
88) 1,2,3-Trichloropropene	7.20	110	71906	40.84	ppb	98
89) n-Propylbenzene	7.27	91	2291368	53.04	ppb	98
90) Bromobenzene	7.17	156	373907	55.68	ppb	88
92) 1,3,5-Trimethylbenzene	7.44	105	1484999	50.86	ppb	92
93) 2-Chlorotoluene	7.35	91	1231660	49.19	ppb	99
94) 4-Chlorotoluene	7.45	91	1356532	47.36	ppb	96
95) tert-Butylbenzene	7.75	119	1292682	52.74	ppb	94

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

Z2576.D W060208.M

Wed Jun 25 11:04:48 2008

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2576.D
 Acq On : 25 Jun 2008 10:52 am
 Sample : CCV
 Misc :

Vial: 5
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Jun 25 11:04 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,4-Trimethylbenzene	7.80	105	1474813	52.41	ppb	94
97) sec-Butylbenzene	7.97	105	2051933	57.21	ppb	99
98) p-Isopropyltoluene	8.10	119	1664709	54.72	ppb	96
99) 1,3-Dclbenz	8.07	146	737906	57.27	ppb	96
100) 1,4-Dclbenz	8.16	146	725497	54.66	ppb	93
102) n-Butylbenzene	8.51	91	1531253	55.33	ppb	96
103) 1,2-Dclbenz	8.53	146	647422	56.08	ppb	95
104) 1,2-Dibromo-3-chloropropan	9.30	157	38871	51.21	ppb #	82
106) 1,2,4-Tcbenzene	10.13	180	344161	56.98	ppb	96
107) Hexachlorobu	10.29	225	168536	52.99	ppb	97
108) Naphthalen	10.36	128	733881	52.70	ppb	96
109) 1,2,3-Tclbenzene	10.59	180	304707	59.24	ppb	97

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOAS\DATA\062608\Z2607.D
 Acq On : 26 Jun 2008 12:22 pm
 Sample : CCV
 Misc :
 MS Integration Params: RTEINT.P

Vial: 6
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOAS\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration

RH 6/24/08

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	<i>Zint</i> %Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	113	0.00
2	Dichlorodifluoromethane	0.508	0.496	2.4	104	0.00
3	Freon 114	0.000	0.000	0.0	104	0.00
4 p	Chloromethane	0.815	0.810	0.6	117	0.00
5 c	Vinyl Chloride	0.741	0.733	1.1	108	0.00
6	Bromomethane	0.484	0.444	8.3	119	0.02
7	Chloroethane	0.521	0.480	7.9	109	0.01
8	FREON 21	1.224	1.115	8.9	104	0.00
9	Trichlorofluoromethane	0.782	0.694	11.3	99	0.01
10	Diethyl Ether	0.425	0.400	5.9	110	0.00
11	FREON 123A	0.286	0.252	11.9	89	0.00
12	FREON 123	0.568	0.503	11.4	112	0.00
13	Acrolein	0.065	0.054	16.9	98	0.00
14	FREON 113	0.220	0.224	-1.8	116	0.00
15 c	1,1-Dichlethene	0.500	0.492	1.6	110	0.00
16	Acetone	0.133	0.084 246	36.8#	91	0.00
17	2-Propanol	0.020	0.019	5.0	114	0.00
18	Iodomethane	0.227	0.286 5.1	-26.0#	111	0.00
19	Carbon Disulfide	1.827	1.758	3.8	112	0.00
20	Acetonitrile	0.030	0.026 ^{OK}	13.3	101	0.00
21	Allyl Chloride	0.318	0.329	-3.5	121	0.00
22	Methyl Acetate	0.392	0.343	12.5	104	0.00
23	Methylene Chloride	0.617	0.599	2.9	119	0.00
24	TBA	0.028	0.027	3.6	116	0.00
25	Acrylonitrile	0.145	0.139	4.1	114	0.00
26	Methyl-t-Butyl Ether	1.199	1.143	4.7	111	0.00
27	trans-1,2-Dichloroethene	0.582	0.577	0.9	114	0.00
28 p	1,1-Dichlethane	1.221	1.209	1.0	113	0.00
29	DIPE	2.669	2.521	5.5	107	0.00
30	Vinyl Acetate	0.077	0.070	9.1	113	0.00
31	2-Chloro-1,3-butadiene	1.085	0.993	8.5	104	0.00
32	ETBE	1.782	1.693	5.0	108	0.00
33	2,2-Dichloropropane	0.862	0.835	3.1	113	0.00
34	2-Butanone	0.219	0.175	20.1#	99	0.00
35	cis-1,2-Dichloroethene	0.614	0.641	-4.4	121	0.00
36	Propionitrile	0.048	0.046	4.2	115	0.00
37	Methacrylonitrile	0.142	0.127	10.6	110	0.00
38	Bromochloromethane	0.235	0.252	-7.2	127	0.00
39 c	Chloroform	1.006	0.950	5.6	109	0.00
40	Tetrahydrofuran	0.123	0.104	15.4	108	0.00
41	1,1,1-Trichloroethane	0.817	0.726	11.1	101	0.00
42 I	1,4 - Difluorobenzene	1.000	1.000	0.0	105	0.00
43 s	surr4,Dibrflmethane	0.299	0.279	6.7	96	0.00
44	cyclohexane	0.615	0.684	-11.2	114	0.00
45	Carbontetrachloride	0.326	0.299	8.3	96	0.00
46	1,1-Dichloropropene	0.420	0.457	-8.8	112	0.00
47	Iso-Butyl Alcohol	0.007	0.008	-14.3	116	0.00
48 s	surr1,1,2-Dichlethane	0.313	0.255	18.5	83	0.00
49	Benzene	1.172	1.371	-17.0	122	0.00

> RH 6/26

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2607.D Vial: 6
 Acq On : 26 Jun 2008 12:22 pm Operator: Herring
 Sample : CCV Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level 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)
50	1,2-Dichloroethane	0.352	0.332	5.7	103	0.00
51	TAME	0.665	0.673	-1.2	109	0.00
52	N-Heptane	0.548	0.681	-24.3#	127	0.00
53	Trichloroethene	0.284	0.305	-7.4	114	0.00
54	methylcyclohexane	0.488	0.530	-8.6	114	0.00
55 c	1,2-Diclp propane	0.332	0.363	-9.3	118	0.00
56	Methyl Methacrylate	0.128	0.118	7.8	104	0.00
57	1,4-Dioxane	0.001	0.001	0.0	144	0.00
58	Dibromomethane	0.138	0.136	1.4	114	0.00
59	Bromodichloromethane	0.355	0.357	-0.6	110	0.00
60	2-Nitropropane	0.063	0.053	15.9	95	0.00
61	2-Chloroethylvinyl Ether	0.137	0.139	-1.5	115	0.00
62	cis-1,3-Dichloropropene	0.433	0.483	-11.5	119	0.00
63 I	d5 - Chlorobenzene	1.000	1.000	0.0	111	0.00
64	4-Methyl-2-Pentanone	0.282	0.232	17.7	99	0.00
65 c	Toluene	1.386	1.556	-12.3	126	0.00
66	trans-1,3-Dichloropropene	0.441	0.434	1.6	114	0.00
67	Ethyl Methacrylate	0.335	0.284	15.2	103	0.00
68	1,1,2-Trichloroethane	0.191	0.194	-1.6	121	0.00
69 s	surr3,Toluene-d8	1.291	1.281	0.8	107	0.00
70 s	surr2, bfb	0.458	0.502	-9.6	116	0.00
71	Tetrachloroethene	0.280	0.343	-22.5#	135	0.00
72	2-Hexanone	0.183	0.157	14.2	100	0.00
73	1,3-Dichloropropene	0.435	0.433	0.5	117	0.00
74	Dibromochloromethane	0.246	0.249	-1.2	116	0.00
75	1,2-Dibromoethane	0.207	0.212	-2.4	121	0.00
76 p	Chlorobenzene	0.828	0.938	-13.3	128	0.00
77	1,1,1,2-Tetrachloroethane	0.265	0.287	-8.3	121	0.00
78 c	Ethylbenzene	1.474	1.717	-16.5	124	0.00
79	(m+p)Xylene	0.537	0.637	-18.6	127	0.00
80	o-Xylene	0.502	0.608	-21.1#	132	0.00
81	Styrene	0.865	1.034	-19.5	126	0.00
82 p	Bromoform	0.105	0.122	-16.2	129	0.00
83	Isopropylbenzene	1.335	1.598	-19.7	127	0.00
84	Cyclohexanone	0.020	0.026	-30.0#	143	0.00
85 I	d4 - Dichlorobenzene	1.000	1.000	0.0	125	0.00
86 p	1,1,2,2-Tetrachloroethane	0.590	0.550	6.8	125	0.00
87	Trans-1,4-Dichloro-2-butene	0.189	0.100	47.1#	72	0.00
88	1,2,3-Trichloropropane	0.170	0.144	15.3	118	0.00
89	n-Propylbenzene	4.183	4.541	-8.6	129	0.00
90	Bromobenzene	0.650	0.729	-12.2	143	0.00
91	4-Ethyltoluene	0.000	0.000	0.0	126	0.00
92	1,3,5-Trimethylbenzene	2.827	2.882	-1.9	126	0.00
93	2-Chlorotoluene	2.424	2.405	0.8	128	0.00
94	4-Chlorotoluene	2.773	2.750	0.8	119	0.00
95	tert-Butylbenzene	2.373	2.468	-4.0	127	0.00
96	1,2,4-Trimethylbenzene	2.725	2.884	-5.8	129	0.00
97	sec-Butylbenzene	3.473	3.985	-14.7	138	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2607.D Vial: 6
 Acq On : 26 Jun 2008 12:22 pm Operator: Herring
 Sample : CCV Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level 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)
98 p-Isopropyltoluene	2.946	3.235	-9.8	131	0.00
99 1,3-Dclbenz	1.247	1.435	-15.1	144	0.00
100 1,4-Dclbenz	1.285	1.423	-10.7	142	0.00
101 Benzyl Chloride	0.000	0.000	0.0	133	0.00
102 n-Butylbenzene	2.679	3.000	-12.0	132	0.00
103 1,2-Dclbenz	1.118	1.242	-11.1	143	0.00
104 1,2-Dibromo-3-chloropropane	0.073	0.074	-1.4	132	0.00
105 Nitrobenzene	0.000	0.000	0.0	98	0.00
106 1,2,4-Tcbenzene	0.585	0.709	-21.2#	152	0.00
107 Hexachlorobu	0.308	0.345	-12.0	136	0.00
108 Naphthalen	1.348	1.453	-7.8	134	0.00
109 1,2,3-Tclbenzene	0.498	0.582	-16.9	145	0.00

Data File : J:\ACQUDATA\MSVOAS\DATA\062608\Z2607.D

Vial: 6

Acq On : 26 Jun 2008 12:22 pm

Operator: Herring

Sample : CCV

Inst : MS #8

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 26 14:39 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)

Title : 8260voa

Last Update : Tue Jun 03 13:30:30 2008

Response via : Initial Calibration

DataAcq Meth : W060208

RH 6/26

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	759203	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.64	114	1422070	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.97	117	1212699	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.15	152	528604	50.00	ppb	0.00

System Monitoring Compounds

43) surr4,Dibrflmethane	3.13	113	397217	46.76	ppb	0.00
Spiked Amount	50.000		Recovery	=	93.52%	
48) surr1,1,2-Dicethane	3.35	65	362271	40.72	ppb	0.00
Spiked Amount	50.000		Recovery	=	81.44%	
69) surr3,Toluene-d8	4.75	98	1553412	49.62	ppb	0.00
Spiked Amount	50.000		Recovery	=	99.24%	
70) surr2,bfb	7.04	95	609272	54.91	ppb	0.00
Spiked Amount	50.000		Recovery	=	109.82%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.04	85	376899	48.90	ppb	99
4) Chloromethane	1.15	50	614601	49.66	ppb	99
5) Vinyl Chloride	1.20	62	556806	49.49	ppb	98
6) Bromomethane	1.38	94	337447	45.95	ppb	95
7) Chloroethane	1.43	64	364725	46.15	ppb	98
8) FREON 21	1.53	67	846433	45.55	ppb	98
9) Trichlorofluoromethane	1.57	101	526572	44.35	ppb	99
10) Diethyl Ether	1.71	59	303896	47.14	ppb	96
11) FREON 123A	1.70	85	191386	44.09	ppb	# 74
12) FREON 123	1.73	85	381916	44.30	ppb	92
13) Acrolein	1.78	56	206880	210.90	ppb	99
14) FREON 113	1.83	85	169940	50.76	ppb	98
15) 1,1-Dicethene	1.84	96	373759	49.20	ppb	97
16) Acetone	1.86	43	64053	37.72	ppb	92
17) 2-Propanol	1.92	45	291149	966.87	ppb	99
18) Iodomethane	1.94	127	217231	47.44	ppb	64
19) Carbon Disulfide	1.98	76	1334577	48.11	ppb	100
20) Acetonitrile	2.00	40	97174m	215.03	ppb	
21) Allyl Chloride	2.03	76	249935	51.69	ppb	78
22) Methyl Acetate	2.03	43	260273	43.75	ppb	99
23) Methylene Chloride	2.09	84	454941	48.56	ppb	99
24) TBA	2.13	59	405503	940.13	ppb	92
25) Acrylonitrile	2.22	53	526490	239.08	ppb	98
26) Methyl-t-Butyl Ether	2.24	73	867899	47.66	ppb	97
27) trans-1,2-Dichloroethene	2.25	96	438224	49.60	ppb	98
28) 1,1-Dicethane	2.49	63	917897	49.52	ppb	99
29) DIPE	2.51	45	1913593	47.23	ppb	92
30) Vinyl Acetate	2.50	86	53007	45.48	ppb	97
31) 2-Chloro-1,3-butadiene	2.54	53	754027	45.76	ppb	92
32) ETBE	2.73	59	1285238	47.51	ppb	99
33) 2,2-Dichloropropane	2.84	77	633670	48.41	ppb	99
34) 2-Butanone	2.83	43	132804	39.94	ppb	96
35) cis-1,2-Dichloroethene	2.83	96	486345	52.15	ppb	93
36) Propionitrile	2.87	54	173631	240.71	ppb	98
37) Methacrylonitrile	2.96	67	96657	44.80	ppb	92

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

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2607.D

Vial: 6

Acq On : 26 Jun 2008 12:22 pm

Operator: Herring

Sample : CCV

Inst : MS #8

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 26 14:39 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)

Title : 8260voa

Last Update : Tue Jun 03 13:30:30 2008

Response via : Initial Calibration

DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	2.98	128	191262	53.64	ppb	99
39) Chloroform	3.02	83	721105	47.23	ppb	100
40) Tetrahydrofuran	3.02	42	78736	42.29	ppb	97
41) 1,1,1-Trichloroethane	3.16	97	551138	44.41	ppb	96
44) cyclohexane	3.20	56	972280	55.59	ppb	99
45) Carbontetrachloride	3.27	117	425542	45.95	ppb	99
46) 1,1-Dichloropropene	3.26	75	649850	54.42	ppb	99
47) Iso-Butyl Alcohol	3.29	43	215966	1064.83	ppb	99
49) Benzene	3.40	78	1949298	58.49	ppb	100
50) 1,2-Dichloroethane	3.40	62	472016	47.13	ppb	99
51) TAME	3.46	73	956405	50.59	ppb	93
52) N-Heptane	3.55	43	968620	62.15	ppb	99
53) Trichloroethene	3.84	95	433966	53.68	ppb	90
54) methylcyclohexane	3.99	55	754047	54.29	ppb	94
55) 1,2-Diclpropane	4.00	63	516368	54.64	ppb	97
56) Methyl Methacrylate	4.06	69	167541	46.10	ppb	84
57) 1,4-Dioxane	4.09	88	37887	1167.19	ppb	97
58) Dibromomethane	4.09	93	193303	49.33	ppb	92
59) Bromodichloromethane	4.19	83	507571	50.27	ppb	100
60) 2-Nitropropane	4.36	43	151867	84.21	ppb	99
61) 2-Chloroethylvinyl Ether	4.41	63	197032	50.44	ppb	100
62) cis-1,3-Dichloropropene	4.53	75	687062	55.77	ppb	99
64) 4-Methyl-2-Pentanone	4.65	43	281774	41.17	ppb	96
65) Toluene	4.80	91	1886473	56.12	ppb	100
66) trans-1,3-Dichloropropene	4.97	75	526314	49.15	ppb	98
67) Ethyl Methacrylate	5.03	69	344224	42.38	ppb	99
68) 1,1,2-Trichloroethane	5.12	83	235583	50.81	ppb	95
71) Tetrachloroethene	5.26	166	415508	61.12	ppb	89
72) 2-Hexanone	5.33	43	190984	42.96	ppb	94
73) 1,3-Dichloropropane	5.27	76	524570	49.72	ppb	91
74) Dibromochloromethane	5.46	129	302351	50.70	ppb	100
75) 1,2-Dibromoethane	5.57	107	257287	51.15	ppb	99
76) Chlorobenzene	5.99	112	1137963	56.68	ppb	98
77) 1,1,1,2-Tetrachloroethane	6.06	131	347741	54.12	ppb	97
78) Ethylbenzene	6.08	91	2082566	58.24	ppb	99
79) (m+p)Xylene	6.19	106	1545606	118.76	ppb	97
80) o-Xylene	6.55	106	737512	60.60	ppb	91
81) Styrene	6.56	104	1254165	59.76	ppb	99
82) Bromoform	6.73	173	147648	58.10	ppb	96
83) Isopropylbenzene	6.90	105	1937289	59.84	ppb	99
84) Cyclohexanone	6.99	55	634224	1325.44	ppb	98
86) 1,1,2,2-Tetrachloroethane	7.17	83	290749	46.63	ppb	99
87) Trans-1,4-Dichloro-2-buten	7.23	53	52639	26.40	ppb	87
88) 1,2,3-Trichloropropane	7.21	110	76084	42.22	ppb	93
89) n-Propylbenzene	7.28	91	2400626	54.29	ppb	99
90) Bromobenzene	7.18	156	385173	56.03	ppb	89
92) 1,3,5-Trimethylbenzene	7.45	105	1523260	50.97	ppb	92
93) 2-Chlorotoluene	7.37	91	1271125	49.60	ppb	98
94) 4-Chlorotoluene	7.47	91	1453887	49.59	ppb	98
95) tert-Butylbenzene	7.77	119	1304364	51.99	ppb	96

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

Z2607.D W060208.M

Thu Jun 26 14:40:03 2008

Page 2

00310

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2607.D Vial: 6
 Acq On : 26 Jun 2008 12:22 pm Operator: Herring
 Sample : CCV Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 14:39 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

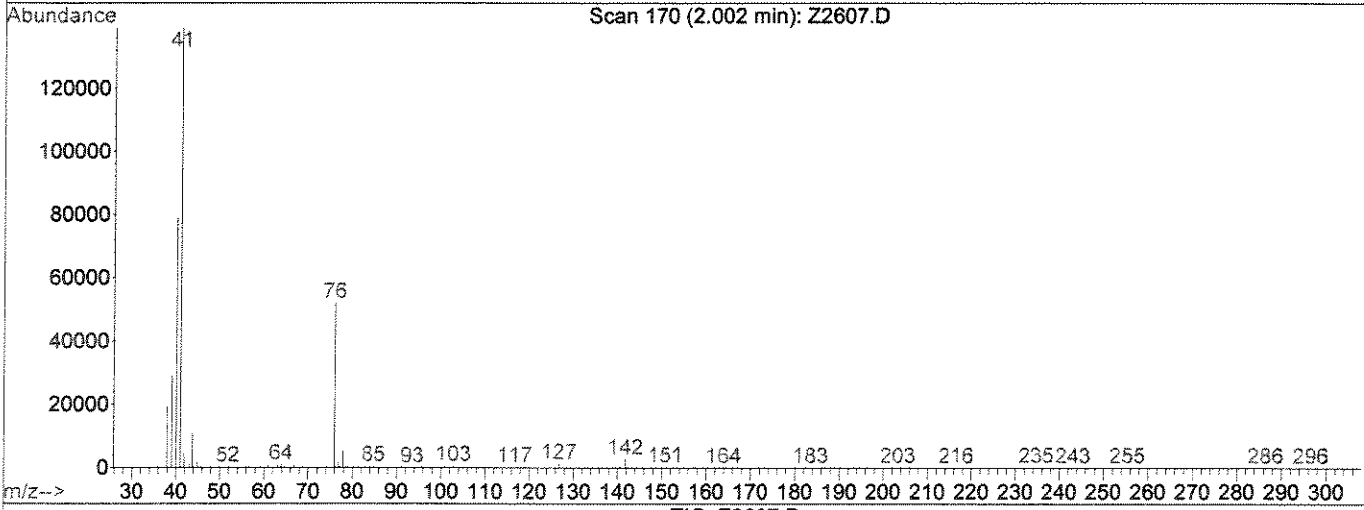
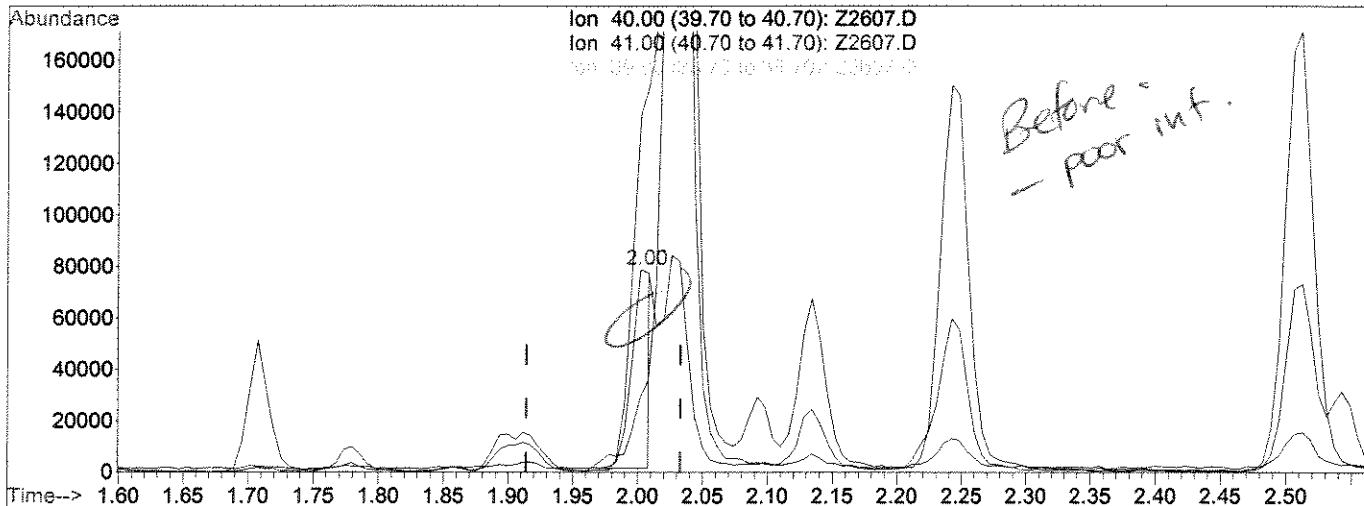
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,4-Trimethylbenzene	7.82	105	1524504	52.93	ppb	95
97) sec-Butylbenzene	7.98	105	2106352	57.37	ppb	99
98) p-Isopropyltoluene	8.12	119	1710223	54.92	ppb	96
99) 1,3-Dclbenz	8.09	146	758675	57.53	ppb	96
100) 1,4-Dclbenz	8.18	146	752015	55.35	ppb	95
102) n-Butylbenzene	8.52	91	1585586	55.98	ppb	97
103) 1,2-Dclbenz	8.54	146	656533	55.55	ppb	94
104) 1,2-Dibromo-3-chloropropan	9.32	157	38994	50.19	ppb #	79
106) 1,2,4-Tcbenzene	10.15	180	374806	60.62	ppb	95
107) Hexachlorobu	10.31	225	182203	55.97	ppb	95
108) Naphthalen	10.38	128	768010	53.88	ppb	96
109) 1,2,3-Tclbenzene	10.61	180	307630	58.43	ppb	99

 (#) = qualifier out of range (m) = manual integration
 Z2607.D W060208.M Thu Jun 26 14:40:04 2008

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2607.D Vial: 6
 Acq On : 26 Jun 2008 12:22 pm Operator: Herring
 Sample : CCV Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 12:34 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(20) Acetonitrile

2.00min 171.25ppb

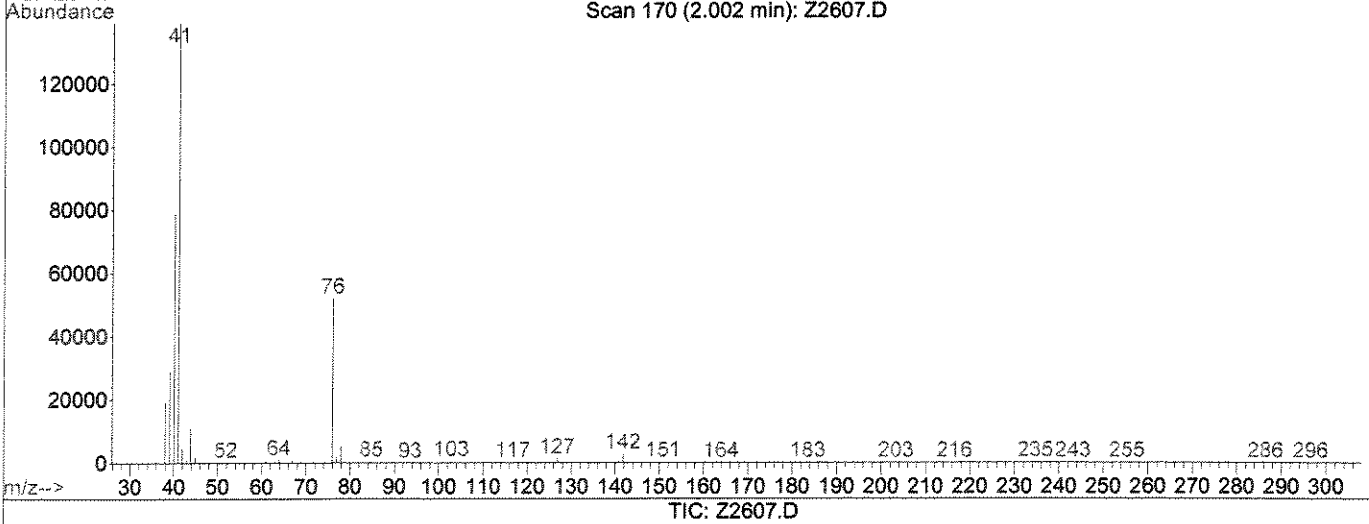
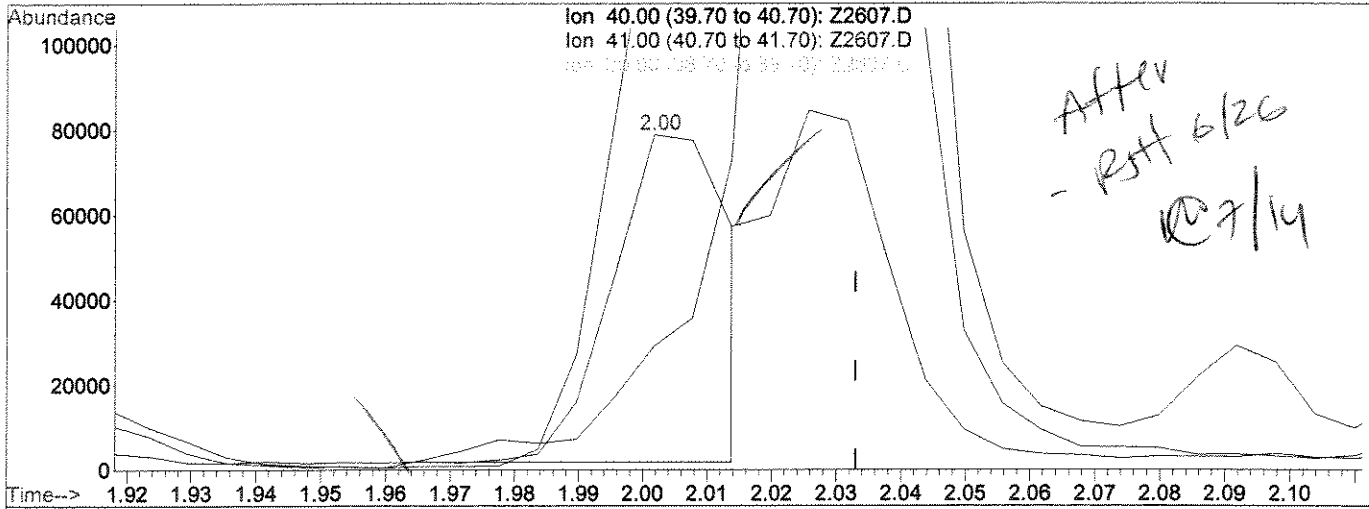
response 77391

Ion	Exp%	Act%
40.00	100	100
41.00	184.00	176.51
39.00	41.90	36.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOAS\DATA\062608\Z2607.D Vial: 6
 Acq On : 26 Jun 2008 12:22 pm Operator: Herring
 Sample : CCV Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 14:31 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOAS\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(20) Acetonitrile

2.00min 215.03ppb m

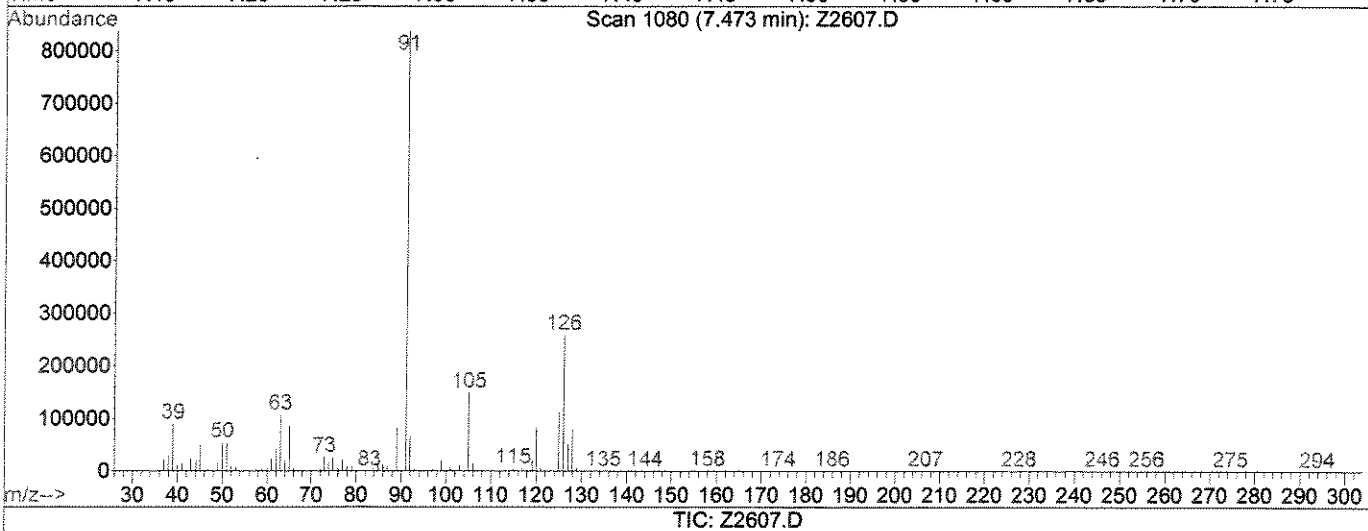
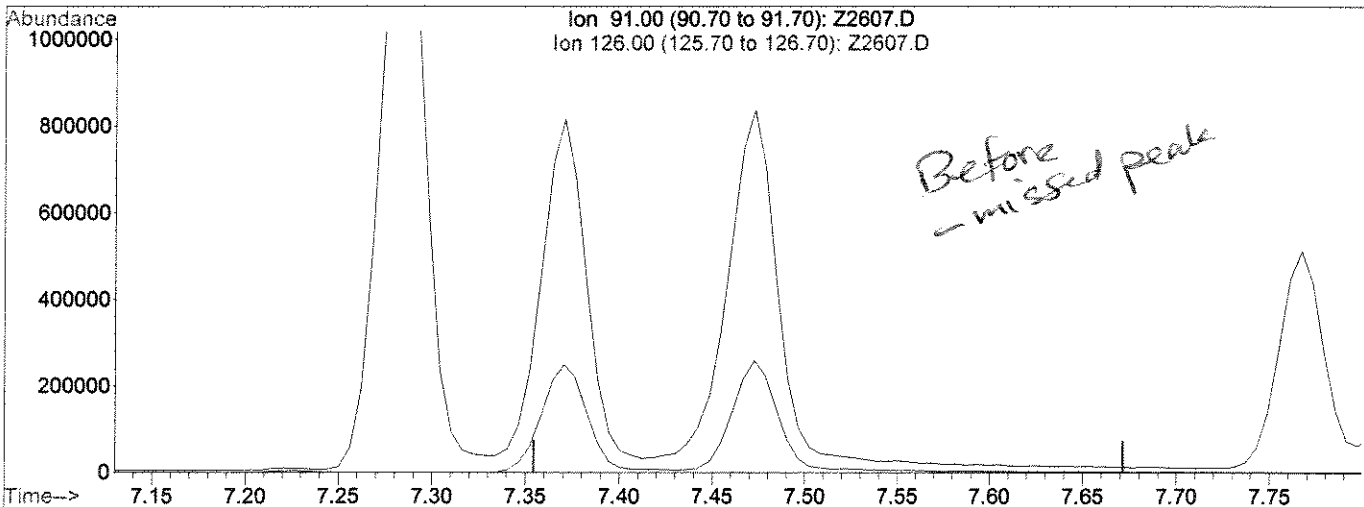
response 97174

Ion	Exp%	Act%
40.00	100	100
41.00	184.00	176.51
39.00	41.90	36.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2607.D Vial: 6
 Acq On : 26 Jun 2008 12:22 pm Operator: Herring
 Sample : CCV Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 14:31 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(94) 4-Chlorotoluene

7.47min 0.00ppb

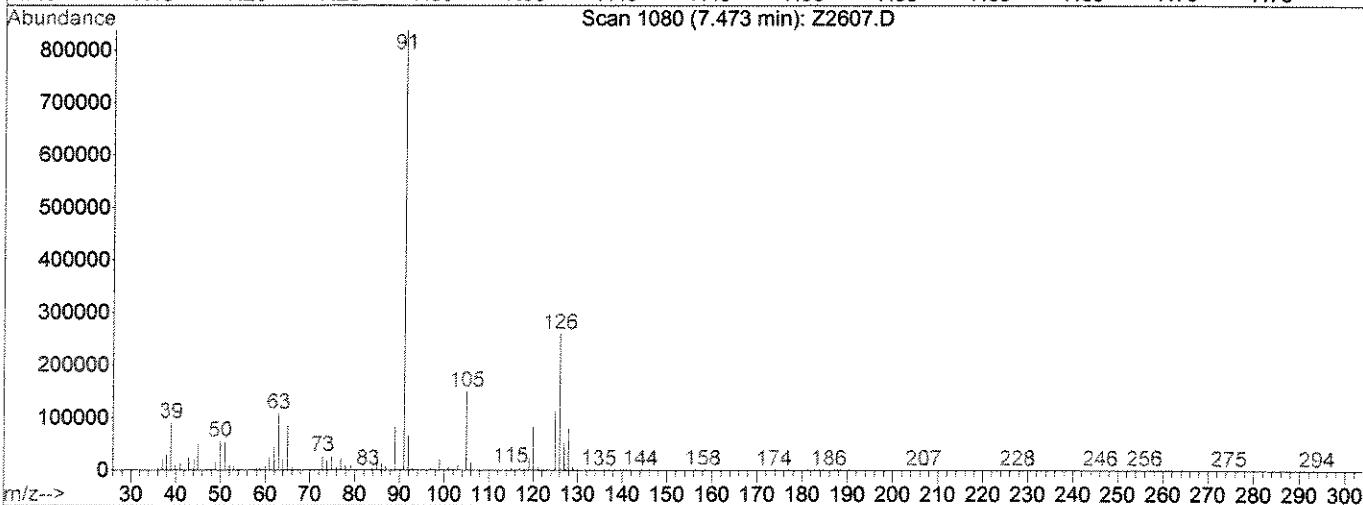
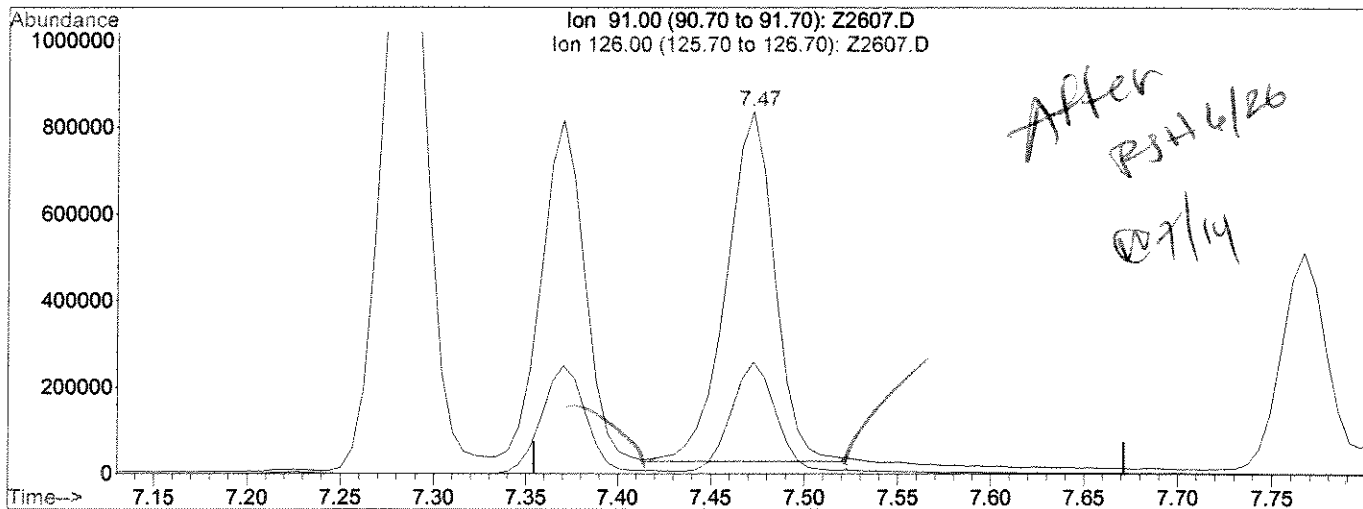
response 0

Ion	Exp%	Act%
91.00	100	0.00
126.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2607.D Vial: 6
 Acq On : 26 Jun 2008 12:22 pm Operator: Herring
 Sample : CCV Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 14:39 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Multiple Level Calibration



(94) 4-Chlorotoluene

7.47min 49.59ppb m

response 1453887

Ion	Exp%	Act%
91.00	100	100
126.00	28.10	30.95
0.00	0.00	0.00
0.00	0.00	0.00

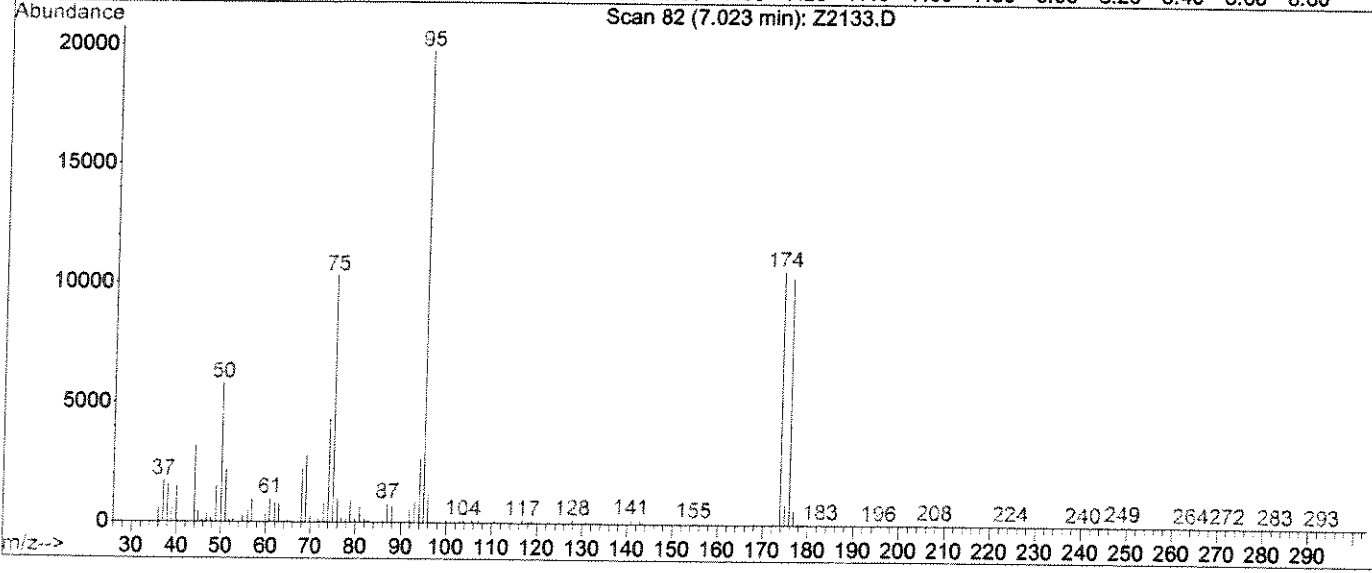
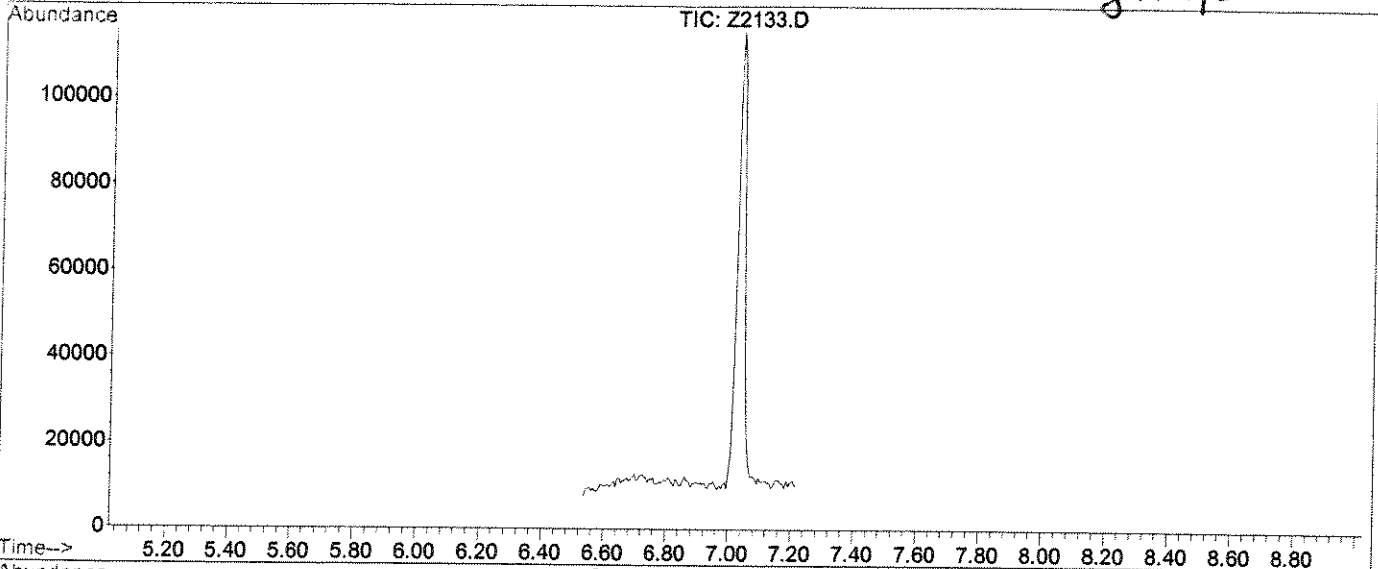
VOLATILE ORGANICS

RAW QC DATA

Data File : J:\ACQUDATA\MSVOA8\DATA\060208\Z2133.D
 Acq On : 2 Jun 2008 12:57 pm
 Sample : TUNE
 Misc :
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa

Vial: 5
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

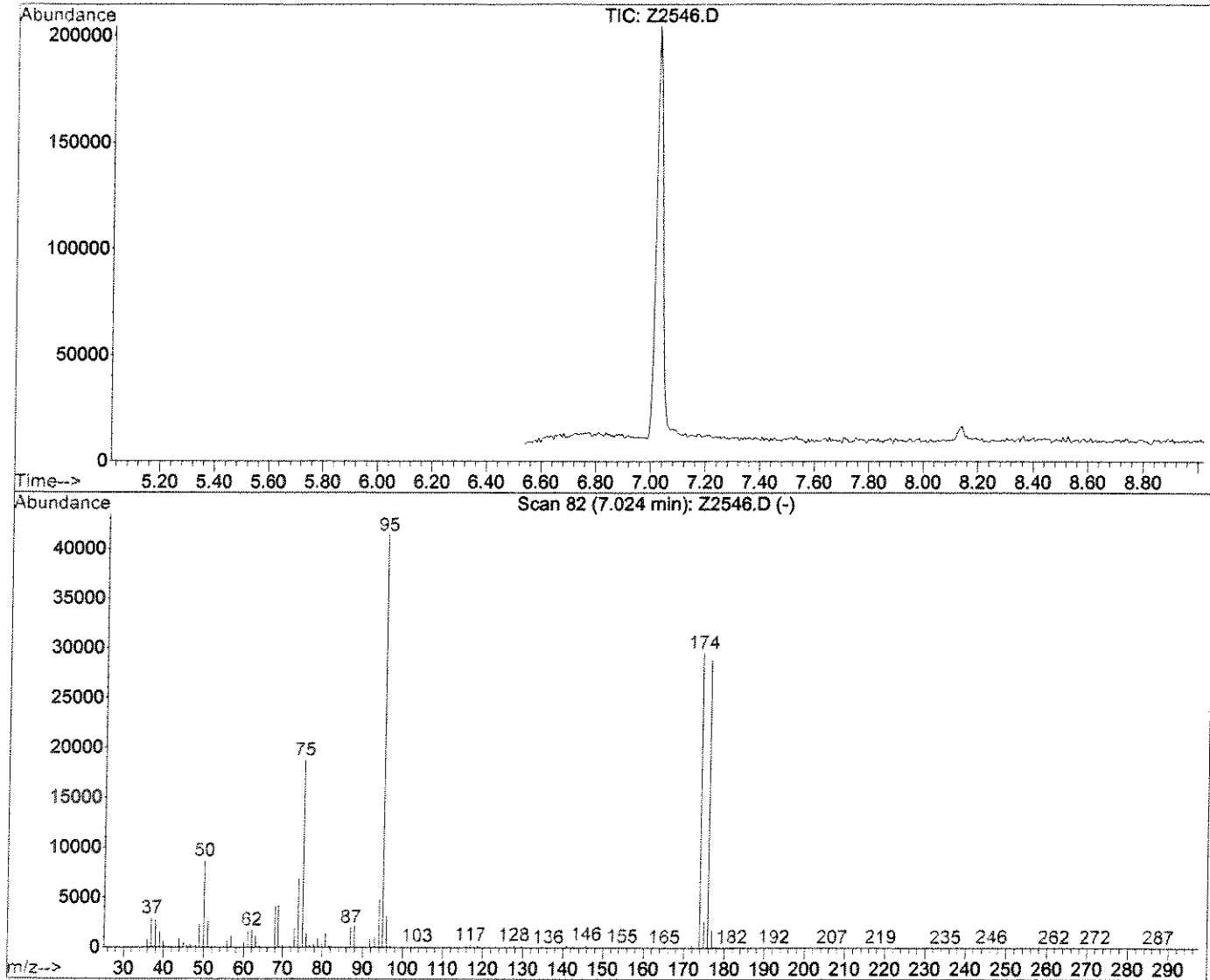
RJT 6/2



Spectrum Information: Scan 82

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.3	5807	PASS
75	95	30	60	52.1	10320	PASS
95	95	100	100	100.0	19792	PASS
96	95	5	9	6.1	1201	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	53.6	10612	PASS
175	174	5	9	8.3	886	PASS
176	174	95	101	97.2	10312	PASS
177	176	5	9	5.8	593	PASS

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2546.D Vial: 5
 Acq On : 24 Jun 2008 10:50 am Operator: Herring
 Sample : TUNE CHECK Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\MSVOA8\METHODS\W042408.M (RTE Integrator)
 Title : 8260voa



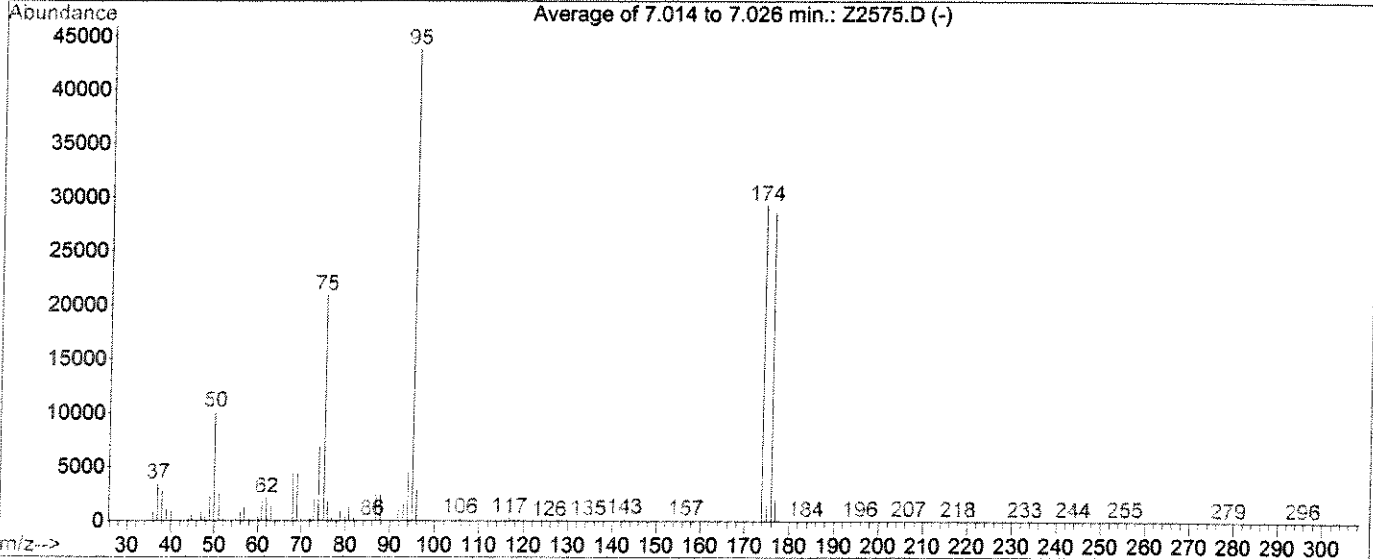
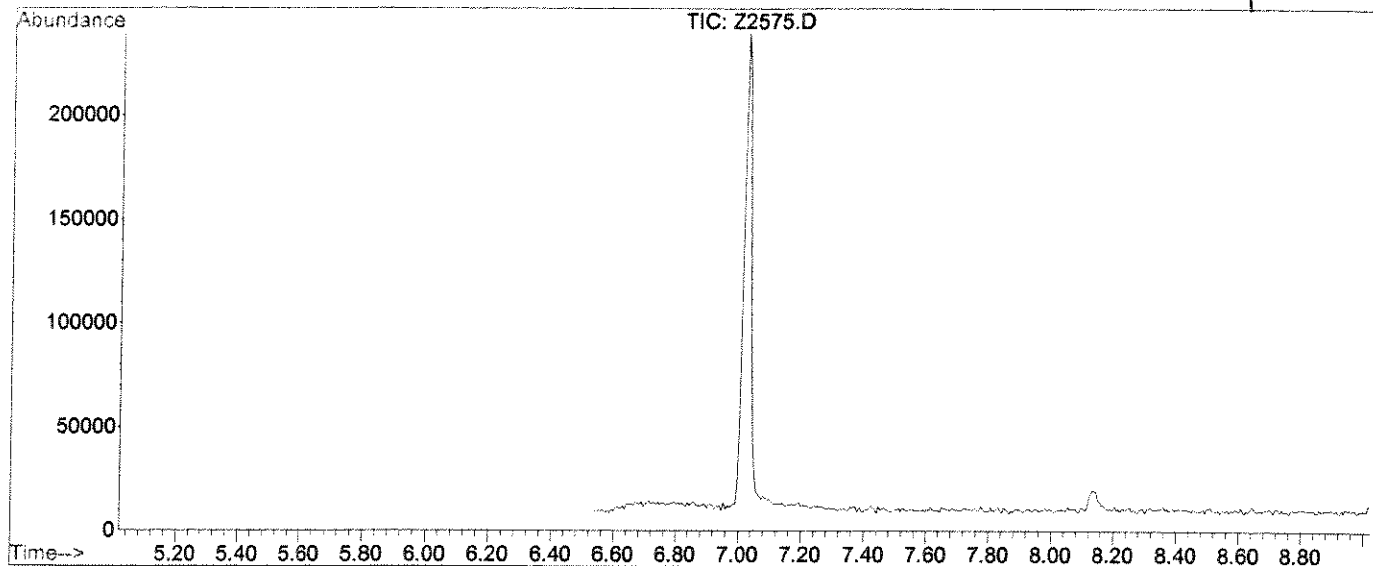
Spectrum Information: Scan 82

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	8676	PASS
75	95	30	60	45.3	18752	PASS
95	95	100	100	100.0	41409	PASS
96	95	5	9	7.7	3177	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	71.4	29560	PASS
175	174	5	9	8.8	2612	PASS
176	174	95	101	97.5	28824	PASS
177	176	5	9	6.3	1809	PASS

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2575.D
Acq On : 25 Jun 2008 10:24 am
Sample : TUNE CHECK
Misc :
MS Integration Params: RTEINT.P
Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa

Vial: 4
Operator: Herring
Inst : MS #8
Multiplr: 1.00

Herring 4/25



AutoFind: Scans 80, 81, 82; Background Corrected with Scan 69

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.1	10098	PASS
75	95	30	60	47.7	20871	PASS
95	95	100	100	100.0	43784	PASS
96	95	5	9	6.6	2887	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	66.9	29280	PASS
175	174	5	9	5.8	1694	PASS
176	174	95	101	97.6	28563	PASS
177	176	5	9	6.9	1964	PASS

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1117311 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
ANALYTICAL DILUTION: 1.00			
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: 07/30/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1117311 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
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 %)	106	%
TOLUENE-D8	(70 - 130 %)	102	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Data File : J:\ACQUDATA\MSVOAS\DATA\062408\Z2550.D Vial: 9
 Acq On : 24 Jun 2008 12:49 pm Operator: Herring
 Sample : MET BLK 117311 1.0 Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 13:01 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.12	168	722909	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1336554	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.96	117	1157710	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.14	152	470159	50.00	ppb	-0.01

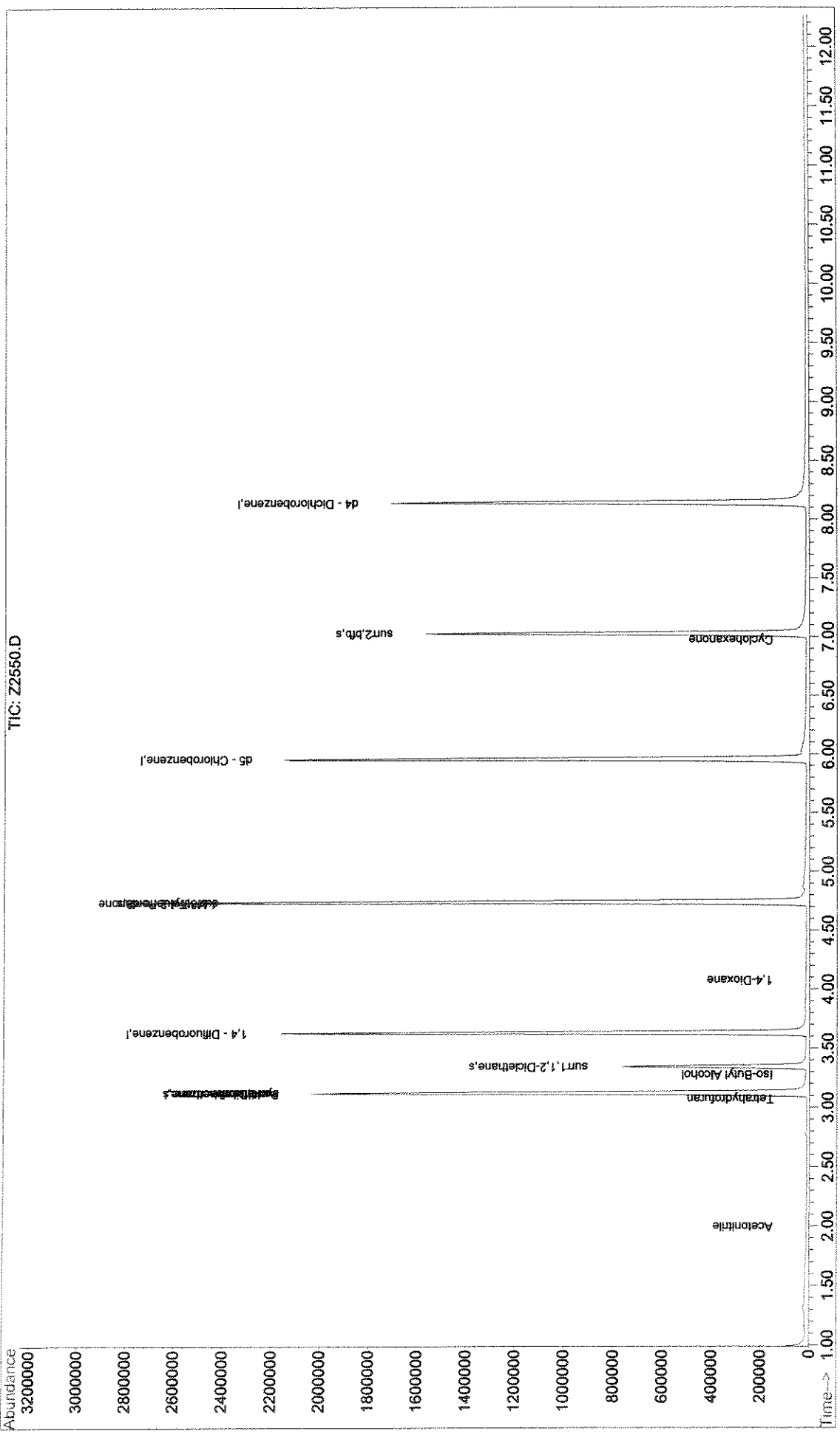
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) surr4,Dibrflmethane	3.11	113	387871	48.58	ppb	0.00
Spiked Amount			Recovery	=	97.16%	
48) surr1,1,2-Diclcethane	3.34	65	371817	44.46	ppb	0.00
Spiked Amount			Recovery	=	88.92%	
69) surr3,Toluene-d8	4.74	98	1520340	50.87	ppb	-0.01
Spiked Amount			Recovery	=	101.74%	
70) surr2,bfb	7.03	95	560876	52.95	ppb	-0.01
Spiked Amount			Recovery	=	105.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	1.85	43	1270	Below Cal		97
20) Acetonitrile	1.99	40	1685	3.92 ppb	#	1
40) Tetrahydrofuran	3.06	42	674	0.38 ppb	#	40
44) cyclohexane	3.12	56	17165	1.04 ppb	#	1
47) Iso Butyl Alcohol	3.28	43	954	5.00 ppb	#	90
57) 1,4-Dioxane	4.07	88	541	17.73 ppb	#	21
64) 4-Methyl-2-Pentanone	4.74	43	10253	1.57 ppb	#	1
84) Cyclohexanone	6.97	55	738	1.62 ppb	#	1

*PSH
7/7*

Data File : J:\ACQDATA\MSVOA8\DATA\062408\Z2550.D Vial: 9
 Acq On : 24 Jun 2008 12:49 pm Operator: Herring
 Sample : MET BLK Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 13:01 2008 Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260vov
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration



00324

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1117315 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/08			
ANALYTICAL DILUTION: 1.00			
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: 07/30/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1117315 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/08			
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 %)	107	%
TOLUENE-D8	(70 - 130 %)	103	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	99	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2579.D
 Acq On : 25 Jun 2008 12:21 pm
 Sample : MET BLK 117315
 Misc :

Vial: 8
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Jun 25 12:33 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	740104	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1354815	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.95	117	1175717	50.00	ppb	-0.01
85) d4 - Dichlorobenzene	8.14	152	468418	50.00	ppb	-0.01

System Monitoring Compounds

43) surr4,Dibrflmethane	3.11	113	398933	49.29	ppb	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
48) surr1,1,2-Diclcethane	3.34	65	376076	44.37	ppb	0.00
Spiked Amount	50.000		Recovery	=	88.74%	
69) surr3,Toluene-d8	4.74	98	1560809	51.43	ppb	-0.01
Spiked Amount	50.000		Recovery	=	102.86%	
70) surr2,bfb	7.02	95	575463	53.49	ppb	-0.02
Spiked Amount	50.000		Recovery	=	106.98%	

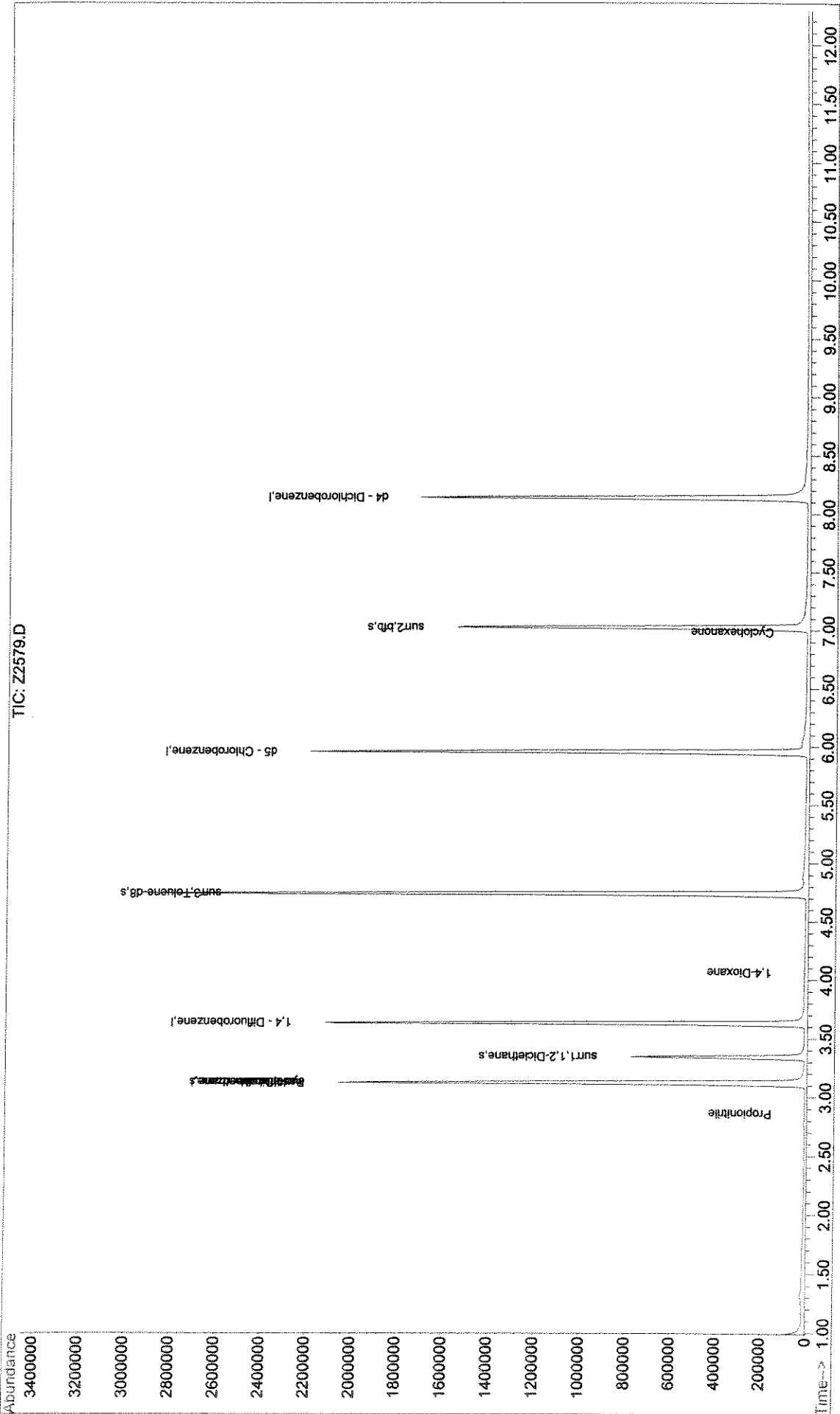
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	1.85	43	916	Below Cal		99
36) Propionitrile	2.86	54	148	0.21	ppb #	57
44) cyclohexane	3.12	56	16657	1.00	ppb #	1
57) 1,4 Dioxane	4.06	88	778	25.16	ppb #	8
84) Cyclohexanone	6.98	55	743	1.60	ppb #	1

RJT 7/8

Data File : J:\ACQDATA\MSVOA8\DATA\062508\Z2579.D Vial: 8
 Acq On : 25 Jun 2008 12:21 pm Operator: Herring
 Sample : MET BLK Inst : MS #8
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 12:33 2008 Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration



00328

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 07/30/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1117317 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 163915

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/26/08			
ANALYTICAL DILUTION: 1.00			
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: 07/30/08

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1117317 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163915

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/26/08			
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 %)	106	%
TOLUENE-D8	(70 - 130 %)	101	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2610.D
 Acq On : 26 Jun 2008 1:45 pm
 Sample : MET BLK 117307
 Misc :

Vial: 9
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Jun 26 13:58 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.14	168	748157	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.64	114	1375291	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.97	117	1190718	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.15	152	481477	50.00	ppb	0.00

System Monitoring Compounds

43) surr4,Dibrflmethane	3.13	113	389159	47.37	ppb	0.00
Spiked Amount			Recovery	=	94.74%	
48) surr1,1,2-Dicethane	3.35	65	370072	43.01	ppb	0.00
Spiked Amount			Recovery	=	86.02%	
69) surr3,Toluene-d8	4.75	98	1544700	50.26	ppb	0.00
Spiked Amount			Recovery	=	100.52%	
70) surr2,bfb	7.04	95	578629	53.11	ppb	0.00
Spiked Amount			Recovery	=	106.22%	

Target Compounds

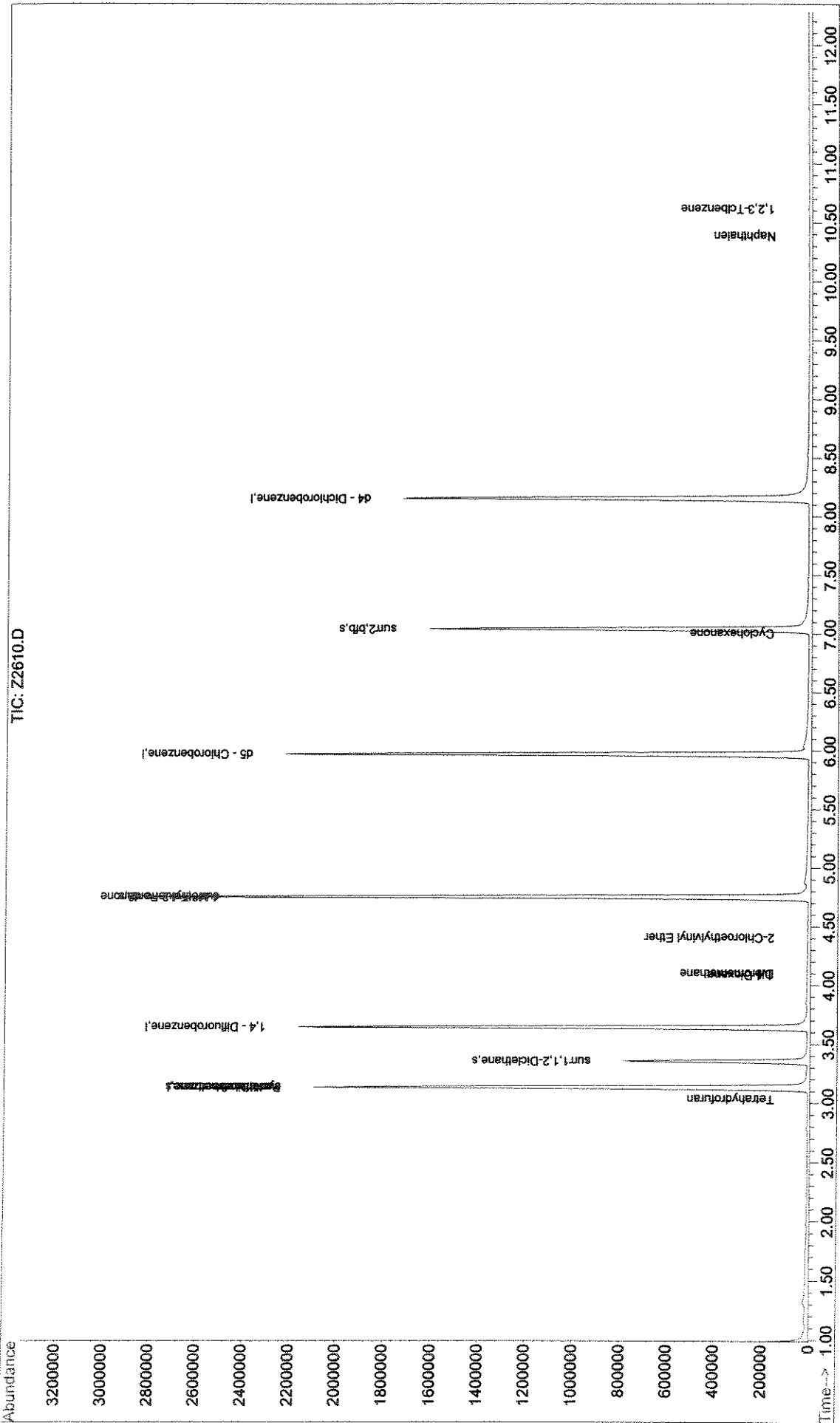
	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	1.86	43	1529	Below Cal	#	52
40) Tetrahydrofuran	3.03	42	769	0.42	ppb	# 40
44) cyclohexane	3.13	56	16992	1.00	ppb	# 1
57) 1,4-Dioxane	4.08	88	363	11.56	ppb	# 29
58) Dibromomethane	4.10	92	884	0.23	ppb	# 31
61) 2-Chloroethylvinyl Ether	4.40	63	1130	0.30	ppb	# 61
64) 4-Methyl-2-Pentanone	4.75	43	9480	1.41	ppb	# 1
84) Cyclohexanone	7.00	55	1013	2.16	ppb	# 1
108) Naphthalen	10.39	128	2616	0.20	ppb	# 87
109) 1,2,3-Telbenzene	10.62	180	1222	0.25	ppb	# 85

*RSK
6/30*

QDEZ-NT

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2610.D Vial: 9
Acq On : 26 Jun 2008 1:45 pm Operator: Herring
Sample : MET BLK Inst : MS #8
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 26 13:58 2008 Quant Results File: W060208.RES

Method : J:\ACQUDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
Title : 8260voa
Last Update : Tue Jun 03 13:30:30 2008
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1117312 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	1.0	22	UG/L
BROMOBENZENE	2.0	22	UG/L
BROMOCHLOROMETHANE	2.0	21	UG/L
BROMODICHLOROMETHANE	1.0	19	UG/L
BROMOFORM	1.0	21	UG/L
BROMOMETHANE	2.0	16	UG/L
2-BUTANONE (MEK)	10	16	UG/L
TERT-BUTYL ALCOHOL	100	380	UG/L
METHYL-TERT-BUTYL ETHER	1.0	18	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	19	UG/L
TERT-BUTYLBENZENE	2.0	20	UG/L
SEC-BUTYLBENZENE	2.0	22	UG/L
N-BUTYLBENZENE	5.0	22	UG/L
CARBON TETRACHLORIDE	1.0	17	UG/L
CHLOROBENZENE	1.0	22	UG/L
CHLOROETHANE	2.0	18	UG/L
CHLOROFORM	1.0	19	UG/L
CHLOROMETHANE	2.0	21	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	20	UG/L
2-CHLOROTOLUENE	5.0	19	UG/L
4-CHLOROTOLUENE	5.0	20	UG/L
DIBROMOCHLOROMETHANE	1.0	19	UG/L
1,2-DIBROMOETHANE	1.0	19	UG/L
DIBROMOMETHANE	1.0	19	UG/L
1,2-DICHLOROBENZENE	2.0	22	UG/L
1,4-DICHLOROBENZENE	2.0	22	UG/L
1,3-DICHLOROBENZENE	2.0	22	UG/L
DICHLORODIFLUOROMETHANE	1.0	23	UG/L
1,1-DICHLOROETHANE	1.0	19	UG/L
1,2-DICHLOROETHANE	1.0	18	UG/L
1,1-DICHLOROETHENE	1.0	19	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	19	UG/L
CIS-1,2-DICHLOROETHENE	1.0	19	UG/L
2,2-DICHLOROPROPANE	2.0	18	UG/L
1,2-DICHLOROPROPANE	1.0	22	UG/L
1,3-DICHLOROPROPANE	2.0	19	UG/L
1,1-DICHLOROPROPENE	2.0	22	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	18	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	22	UG/L
ETHYLBENZENE	1.0	22	UG/L
HEXACHLOROBUTADIENE	5.0	21	UG/L
2-HEXANONE	10	16	UG/L
DI-ISOPROPYL ETHER	1.0	19	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1117312 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163912

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/08			
ANALYTICAL DILUTION: 1.00			
ISOPROPYLBENZENE	2.0	23	UG/L
P-ISOPROPYLTOLUENE	2.0	21	UG/L
TERT-AMYL-METHYL ETHER	1.0	20	UG/L
METHYLENE CHLORIDE	2.0	19	UG/L
NAPHTHALENE	2.0	21	UG/L
4-METHYL-2-PENTANONE	10	16	UG/L
N-PROPYLBENZENE	2.0	20	UG/L
STYRENE	1.0	23	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	21	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	19	UG/L
TETRACHLOROETHENE	1.0	24	UG/L
TOLUENE	1.0	21	UG/L
1,2,4-TRICHLOROBENZENE	2.0	22	UG/L
1,2,3-TRICHLOROBENZENE	2.0	23	UG/L
1,1,1-TRICHLOROETHANE	1.0	17	UG/L
1,1,2-TRICHLOROETHANE	1.0	20	UG/L
TRICHLOROETHENE	1.0	21	UG/L
TRICHLOROFLUOROMETHANE	1.0	17	UG/L
1,2,3-TRICHLOROPROPANE	2.0	16	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	20	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	21	UG/L
VINYL CHLORIDE	1.0	19	UG/L
M+P-XYLENE	2.0	44	UG/L
O-XYLENE	1.0	23	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	108	%
TOLUENE-D8	(70 - 130 %)	103	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	97	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2548.D
 Acq On : 24 Jun 2008 11:53 am
 Sample : LCS
 Misc : 117312 1.0

Vial: 7
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Jun 24 12:05 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

PJT 6/24

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	759005	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1418924	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.96	117	1212944	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.14	152	513033	50.00	ppb	-0.01

System Monitoring Compounds

43) surr4,Dibrflmethane	3.11	113	411803	48.58	ppb	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
48) surr1,1,2-Dicethane	3.34	65	383857	43.24	ppb	0.00
Spiked Amount	50.000		Recovery	=	86.48%	
69) surr3,Toluene-d8	4.74	98	1608118	51.36	ppb	-0.01
Spiked Amount	50.000		Recovery	=	102.72%	
70) surr2,bfb	7.03	95	597913	53.87	ppb	-0.01
Spiked Amount	50.000		Recovery	=	107.74%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.04	85	178749	23.20	ppb	98
4) Chloromethane	1.14	50	259107	20.94	ppb	99
5) Vinyl Chloride	1.20	62	216046	19.21	ppb	100
6) Bromomethane	1.38	94	120520	16.42	ppb	98
7) Chloroethane	1.43	64	138611	17.54	ppb	99
8) FREON 21	1.52	67	365810	19.69	ppb	98
9) Trichlorofluoromethane	1.56	101	198602	16.73	ppb	96
10) Diethyl Ether	1.70	59	122645	19.03	ppb	97
11) FREON 123A	1.69	85	69322	15.97	ppb	85
12) FREON 123	1.72	85	138424	16.06	ppb	94
13) Acrolein	1.77	56	89151	90.91	ppb	96
14) FREON 113	1.83	85	69665	20.81	ppb	98
15) 1,1-Dicethene	1.83	96	146948	19.35	ppb	99
16) Acetone	1.85	43	24880	13.21	ppb	99 - (50-150) OK
17) 2-Propanol	1.90	45	125543	417.02	ppb	97
18) Iodomethane	1.92	127	78669	18.65	ppb	71
19) Carbon Disulfide	1.97	76	513126	18.50	ppb	99
20) Acetonitrile	2.00	40	36580	80.97	ppb	92
21) Allyl Chloride	2.02	76	97189	20.10	ppb	90
22) Methyl Acetate	2.02	43	108130	18.18	ppb	98
23) Methylene Chloride	2.09	84	176747	18.87	ppb	96
24) TBA	2.13	59	164341	381.11	ppb	92
25) Acrylonitrile	2.21	53	201151	91.37	ppb	99
26) Methyl-t-Butyl Ether	2.24	73	328489	18.04	ppb	95
27) trans-1,2-Dichloroethene	2.24	96	167034	18.91	ppb	97
28) 1,1-Dicethane	2.48	63	352598	19.03	ppb	98
29) DIPE	2.50	45	755836	18.66	ppb	98
30) Vinyl Acetate	2.49	86	17193	14.75	ppb #	34
31) 2-Chloro-1,3-butadiene	2.54	53	302783	18.38	ppb	89
32) ETBE	2.72	59	512577	18.95	ppb	98
33) 2,2-Dichloropropane	2.83	77	238470	18.22	ppb	100
34) 2-Butanone	2.82	43	51697	15.55	ppb	94
35) cis-1,2-Dichloroethene	2.82	96	181324	19.45	ppb	90
36) Propionitrile	2.85	54	64266	89.12	ppb	98
37) Methacrylonitrile	2.96	67	38618	17.90	ppb	83

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

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2548.D Vial: 7
 Acq On : 24 Jun 2008 11:53 am Operator: Herring
 Sample : LCS Inst : MS #8
 Misc : Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Jun 24 12:05 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)

Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	2.97	128	74011	20.76	ppb	94
39) Chloroform	3.01	83	289550	18.97	ppb	97
40) Tetrahydrofuran	3.01	42	32199	17.30	ppb	100
41) 1,1,1-Trichloroethane	3.15	97	212987	17.17	ppb	93
44) cyclohexane	3.19	56	373532	21.40	ppb	99
45) Carbontetrachloride	3.26	117	157294	17.02	ppb	98
46) 1,1-Dichloropropene	3.25	75	260750	21.89	ppb	97
47) Iso-Butyl Alcohol	3.28	43	84886	419.46	ppb	98
49) Benzene	3.39	78	736726	22.16	ppb	97
50) 1,2-Dichloroethane	3.40	62	180333	18.05	ppb	97
51) TAME	3.45	73	375449	19.91	ppb	94
52) N-Heptane	3.55	43	366610	23.58	ppb	97
53) Trichloroethene	3.82	95	171373	21.24	ppb	89
54) methylcyclohexane	3.97	55	289064	20.86	ppb	96
55) 1,2-Diclpropane	3.99	63	204452	21.68	ppb	99
56) Methyl Methacrylate	4.05	69	71395	19.69	ppb	81
57) 1,4-Dioxane	4.09	88	17397	537.14	ppb	94
58) Dibromomethane	4.08	93	72824	18.63	ppb	93
59) Bromodichloromethane	4.18	83	193892	19.25	ppb	100
60) 2-Nitropropane	4.35	43	54409	30.24	ppb	95
61) 2-Chloroethylvinyl Ether	4.39	63	80741	20.72	ppb	95
62) cis-1,3-Dichloropropene	4.52	75	264678	21.53	ppb	100
64) 4-Methyl-2-Pentanone	4.63	43	110241	16.10	ppb	98
65) Toluene	4.79	91	717382	21.34	ppb	99
66) trans-1,3-Dichloropropene	4.95	75	197437	18.44	ppb	97
67) Ethyl Methacrylate	5.02	69	154052	18.96	ppb	98
68) 1,1,2-Trichloroethane	5.11	83	91601	19.75	ppb	99
71) Tetrachloroethene	5.24	166	159867	23.51	ppb	96
72) 2-Hexanone	5.31	43	70634	15.89	ppb	92
73) 1,3-Dichloropropane	5.25	76	202772	19.21	ppb	87
74) Dibromochloromethane	5.45	129	114720	19.23	ppb	98
75) 1,2-Dibromoethane	5.55	107	95734	19.03	ppb	99
76) Chlorobenzene	5.98	112	440810	21.95	ppb	97
77) 1,1,1,2-Tetrachloroethane	6.05	131	132993	20.69	ppb	94
78) Ethylbenzene	6.07	91	785246	21.96	ppb	99
79) (m+p)Xylene	6.18	106	580121	44.57	ppb	93
80) o-Xylene	6.54	106	280010	23.00	ppb	91
81) Styrene	6.55	104	475275	22.64	ppb	97
82) Bromoform	6.72	173	52909	20.82	ppb	95
83) Isopropylbenzene	6.88	105	733248	22.64	ppb	98
84) Cyclohexanone	6.97	55	190346	397.71	ppb	97
86) 1,1,2,2-Tetrachloroethane	7.15	83	116891	19.32	ppb	98
87) Trans-1,4-Dichloro-2-buten	7.21	53	27652	14.29	ppb	83
88) 1,2,3-Trichloropropane	7.20	110	28325	16.20	ppb	97
89) n-Propylbenzene	7.27	91	860658	20.05	ppb	99
90) Bromobenzene	7.17	156	146586	21.97	ppb	85
92) 1,3,5-Trimethylbenzene	7.44	105	568656	19.60	ppb	91
93) 2-Chlorotoluene	7.36	91	465271	18.70	ppb	95
94) 4-Chlorotoluene	7.46	91	584394	20.54	ppb	95
95) tert-Butylbenzene	7.75	119	499446	20.51	ppb	95

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

Data File : J:\ACQUDATA\MSVOA8\DATA\062408\Z2548.D
 Acq On : 24 Jun 2008 11:53 am
 Sample : LCS
 Misc :
 MS Integration Params: RTEINT.P
 Quant Time: Jun 24 12:05 2008

Vial: 7
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,4-Trimethylbenzene	7.80	105	580558	20.77	ppb	95
97) sec-Butylbenzene	7.96	105	782771	21.97	ppb	99
98) p-Isopropyltoluene	8.11	119	649099	21.48	ppb	96
99) 1,3-Dclbenz	8.08	146	287641	22.47	ppb	93
100) 1,4-Dclbenz	8.16	146	292665	22.20	ppb	95
102) n-Butylbenzene	8.51	91	591274	21.51	ppb	97
103) 1,2-Dclbenz	8.53	146	252184	21.99	ppb	95
104) 1,2-Dibromo-3-chloropropan	9.30	157	14726	19.53	ppb	84
106) 1,2,4-Tcbenzene	10.13	180	135548	22.59	ppb	97
107) Hexachlorobu	10.29	225	65700	20.80	ppb	93
108) Naphthalen	10.37	128	290969	21.03	ppb	96
109) 1,2,3-Tclbenzene	10.59	180	118936	23.27	ppb	98

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1117316 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	1.0	23	UG/L
BROMOBENZENE	2.0	23	UG/L
BROMOCHLOROMETHANE	2.0	21	UG/L
BROMODICHLOROMETHANE	1.0	19	UG/L
BROMOFORM	1.0	22	UG/L
BROMOMETHANE	2.0	17	UG/L
2-BUTANONE (MEK)	10	17	UG/L
TERT-BUTYL ALCOHOL	100	370	UG/L
METHYL-TERT-BUTYL ETHER	1.0	18	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	19	UG/L
TERT-BUTYLBENZENE	2.0	21	UG/L
SEC-BUTYLBENZENE	2.0	22	UG/L
N-BUTYLBENZENE	5.0	22	UG/L
CARBON TETRACHLORIDE	1.0	17	UG/L
CHLOROBENZENE	1.0	22	UG/L
CHLOROETHANE	2.0	18	UG/L
CHLOROFORM	1.0	19	UG/L
CHLOROMETHANE	2.0	22	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	19	UG/L
2-CHLOROTOLUENE	5.0	19	UG/L
4-CHLOROTOLUENE	5.0	19	UG/L
DIBROMOCHLOROMETHANE	1.0	20	UG/L
1,2-DIBROMOETHANE	1.0	20	UG/L
DIBROMOMETHANE	1.0	19	UG/L
1,2-DICHLOROBENZENE	2.0	22	UG/L
1,4-DICHLOROBENZENE	2.0	22	UG/L
1,3-DICHLOROBENZENE	2.0	23	UG/L
DICHLORODIFLUOROMETHANE	1.0	24	UG/L
1,1-DICHLOROETHANE	1.0	19	UG/L
1,2-DICHLOROETHANE	1.0	19	UG/L
1,1-DICHLOROETHENE	1.0	20	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	19	UG/L
CIS-1,2-DICHLOROETHENE	1.0	20	UG/L
2,2-DICHLOROPROPANE	2.0	19	UG/L
1,2-DICHLOROPROPANE	1.0	22	UG/L
1,3-DICHLOROPROPANE	2.0	19	UG/L
1,1-DICHLOROPROPENE	2.0	23	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	18	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	22	UG/L
ETHYLBENZENE	1.0	22	UG/L
HEXACHLOROBUTADIENE	5.0	21	UG/L
2-HEXANONE	10	18	UG/L
DI-ISOPROPYL ETHER	1.0	19	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1117316 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163914

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	23	UG/L
P-ISOPROPYLTOLUENE	2.0	22	UG/L
TERT-AMYL-METHYL ETHER	1.0	20	UG/L
METHYLENE CHLORIDE	2.0	19	UG/L
NAPHTHALENE	2.0	21	UG/L
4-METHYL-2-PENTANONE	10	17	UG/L
N-PROPYLBENZENE	2.0	21	UG/L
STYRENE	1.0	23	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	21	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	20	UG/L
TETRACHLOROETHENE	1.0	24	UG/L
TOLUENE	1.0	22	UG/L
1,2,4-TRICHLOROBENZENE	2.0	23	UG/L
1,2,3-TRICHLOROBENZENE	2.0	22	UG/L
1,1,1-TRICHLOROETHANE	1.0	18	UG/L
1,1,2-TRICHLOROETHANE	1.0	19	UG/L
TRICHLOROETHENE	1.0	21	UG/L
TRICHLOROFLUOROMETHANE	1.0	17	UG/L
1,2,3-TRICHLOROPROPANE	2.0	16	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	20	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	21	UG/L
VINYL CHLORIDE	1.0	20	UG/L
M+P-XYLENE	2.0	46	UG/L
O-XYLENE	1.0	23	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	100	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	94	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2577.D
 Acq On : 25 Jun 2008 11:25 am
 Sample : LCS
 Misc :
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 11:37 2008

Vial: 6
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

PJH
6/26

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.12	168	771457	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.63	114	1424754	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.96	117	1228928	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.14	152	517025	50.00	ppb	-0.01

System Monitoring Compounds

43) surr4,Dibrflmethane	3.11	113	401512	47.17	ppb	0.00
Spiked Amount	50.000		Recovery	=	94.34%	
48) surr1,1,2-Dicethane	3.34	65	371969	41.73	ppb	0.00
Spiked Amount	50.000		Recovery	=	83.46%	
69) surr3,Toluene-d8	4.74	98	1578077	49.75	ppb	-0.01
Spiked Amount	50.000		Recovery	=	99.50%	
70) surr2,bfb	7.03	95	596595	53.05	ppb	-0.01
Spiked Amount	50.000		Recovery	=	106.10%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.04	85	189378	24.18	ppb	99
4) Chloromethane	1.14	50	271523	21.59	ppb	100
5) Vinyl Chloride	1.20	62	226935	19.85	ppb	100
6) Bromomethane	1.38	94	127352	17.07	ppb	96
7) Chloroethane	1.42	64	144237	17.96	ppb	96
8) FREON 21	1.52	67	402916	21.34	ppb	99
9) Trichlorofluoromethane	1.56	101	210041	17.41	ppb	100
10) Diethyl Ether	1.70	59	128919	19.68	ppb	99
11) FREON 123A	1.69	85	81386	18.45	ppb	80
12) FREON 123	1.72	85	161921	18.48	ppb	90
13) Acrolein	1.77	56	97007	97.32	ppb	99
14) FREON 113	1.82	85	73032	21.47	ppb	96
15) 1,1-Dicethene	1.83	96	153259	19.85	ppb	98
16) Acetone	1.85	43	28875	15.42	ppb	# 82
17) 2-Propanol	1.90	45	152447	498.22	ppb	98
18) Iodomethane	1.93	127	92090	21.13	ppb	74
19) Carbon Disulfide	1.97	76	575041	20.40	ppb	100
20) Acetonitrile	1.99	40	41494	90.36	ppb	92
21) Allyl Chloride	2.02	76	98915	20.13	ppb	72
22) Methyl Acetate	2.02	43	119411	19.75	ppb	99
23) Methylene Chloride	2.08	84	178739	18.78	ppb	98
24) TBA	2.13	59	164280	374.82	ppb	# 90
25) Acrylonitrile	2.21	53	205215	91.71	ppb	99
26) Methyl-t-Butyl Ether	2.24	73	340586	18.41	ppb	97
27) trans-1,2-Dichloroethene	2.24	96	171718	19.13	ppb	98
28) 1,1-Dicethane	2.48	63	362849	19.26	ppb	99
29) DIPE	2.50	45	772401	18.76	ppb	99
30) Vinyl Acetate	2.49	86	18808	15.88	ppb	81
31) 2-Chloro-1,3-butadiene	2.54	53	346875	20.72	ppb	89
32) ETBE	2.72	59	525069	19.10	ppb	98
33) 2,2-Dichloropropane	2.83	77	248564	18.69	ppb	97
34) 2-Butanone	2.82	43	58793	17.40	ppb	97
35) cis-1,2-Dichloroethene	2.82	96	189657	20.02	ppb	91
36) Propionitrile	2.86	54	71531	97.59	ppb	99
37) Methacrylonitrile	2.96	67	40553	18.50	ppb	95

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

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2577.D
 Acq On : 25 Jun 2008 11:25 am
 Sample : LCS
 Misc :

Vial: 6
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Jun 25 11:37 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	2.97	128	74822	20.65	ppb	92
39) Chloroform	3.01	83	296438	19.11	ppb	99
40) Tetrahydrofuran	3.01	42	32192	17.02	ppb	97
41) 1,1,1-Trichloroethane	3.15	97	223356	17.71	ppb	97
44) cyclohexane	3.19	56	420724	24.01	ppb	99
45) Carbontetrachloride	3.26	117	160642	17.31	ppb	93
46) 1,1-Dichloropropene	3.25	75	270493	22.61	ppb	98
47) Iso-Butyl Alcohol	3.28	43	91117	448.41	ppb	100
49) Benzene	3.39	78	766205	22.95	ppb	98
50) 1,2-Dichloroethane	3.40	62	189227	18.86	ppb	100
51) TAME	3.45	73	382351	20.19	ppb	96
52) N-Heptane	3.55	43	381956	24.46	ppb	98
53) Trichloroethene	3.82	95	173934	21.47	ppb	88
54) methylcyclohexane	3.97	55	326977	23.50	ppb	95
55) 1,2-Diclpropane	3.98	63	207216	21.88	ppb	100
56) Methyl Methacrylate	4.05	69	73766	20.26	ppb	76
57) 1,4-Dioxane	4.09	88	18798	578.02	ppb	93
58) Dibromomethane	4.07	93	75984	19.36	ppb	88
59) Bromodichloromethane	4.18	83	197068	19.48	ppb	97
60) 2-Nitropropane	4.35	43	51992	28.77	ppb	95
61) 2-Chloroethylvinyl Ether	4.39	63	86882	22.20	ppb	100
62) cis-1,3-Dichloropropene	4.52	75	270696	21.93	ppb	97
64) 4-Methyl-2-Pentanone	4.63	43	120024	17.31	ppb	95
65) Toluene	4.79	91	743193	21.82	ppb	99
66) trans-1,3-Dichloropropene	4.95	75	200040	18.44	ppb	98
67) Ethyl Methacrylate	5.02	69	156141	18.97	ppb	100
68) 1,1,2-Trichloroethane	5.11	83	91346	19.44	ppb	95
71) Tetrachloroethene	5.25	166	165132	23.97	ppb	94
72) 2-Hexanone	5.31	43	80524	17.88	ppb	96
73) 1,3-Dichloropropane	5.25	76	205162	19.19	ppb	85
74) Dibromochloromethane	5.45	129	119432	19.76	ppb	99
75) 1,2-Dibromoethane	5.55	107	99963	19.61	ppb	98
76) Chlorobenzene	5.98	112	457220	22.47	ppb	95
77) 1,1,1,2-Tetrachloroethane	6.05	131	138691	21.30	ppb	98
78) Ethylbenzene	6.07	91	817433	22.56	ppb	99
79) (m+p)Xylene	6.18	106	604779	45.86	ppb	95
80) o-Xylene	6.54	106	289317	23.46	ppb	91
81) Styrene	6.55	104	487992	22.94	ppb	99
82) Bromoform	6.73	173	56347	21.88	ppb	96
83) Isopropylbenzene	6.88	105	765738	23.34	ppb	97
84) Cyclohexanone	6.97	55	231470	477.35	ppb	98
86) 1,1,2,2-Tetrachloroethane	7.15	83	120030	19.68	ppb	99
87) Trans-1,4-Dichloro-2-buten	7.21	53	28901	14.82	ppb #	80
88) 1,2,3-Trichloropropane	7.20	110	28821	16.35	ppb	89
89) n-Propylbenzene	7.27	91	901833	20.85	ppb	99
90) Bromobenzene	7.17	156	152073	22.62	ppb	89
92) 1,3,5-Trimethylbenzene	7.44	105	601070	20.56	ppb	94
93) 2-Chlorotoluene	7.36	91	485304	19.36	ppb	96
94) 4-Chlorotoluene	7.46	91	552694	19.27	ppb	93
95) tert-Butylbenzene	7.75	119	512822	20.90	ppb	94

(#) = qualifier out of range (m) = manual integration
 Z2577.D W060208.M Wed Jun 25 11:38:15 2008

Data File : J:\ACQUDATA\MSVOA8\DATA\062508\Z2577.D Vial: 6
 Acq On : 25 Jun 2008 11:25 am Operator: Herring
 Sample : LCS Inst : MS #8
 Misc : Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Jun 25 11:37 2008 Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,4-Trimethylbenzene	7.80	105	595571	21.14	ppb	94
97) sec-Butylbenzene	7.97	105	805600	22.43	ppb	97
98) p-Isopropyltoluene	8.11	119	655117	21.51	ppb	96
99) 1,3-Dclbenz	8.08	146	293420	22.75	ppb	95
100) 1,4-Dclbenz	8.16	146	293759	22.11	ppb	96
102) n-Butylbenzene	8.51	91	605408	21.85	ppb	96
103) 1,2-Dclbenz	8.53	146	256242	22.17	ppb	95
104) 1,2-Dibromo-3-chloropropan	9.30	157	14501	19.08	ppb #	82
106) 1,2,4-Tcbenzene	10.13	180	138940	22.98	ppb	93
107) Hexachlorobu	10.30	225	68120	21.39	ppb	97
108) Naphthalen	10.37	128	290740	20.85	ppb	97
109) 1,2,3-Tclbenzene	10.60	180	113999	22.14	ppb	95

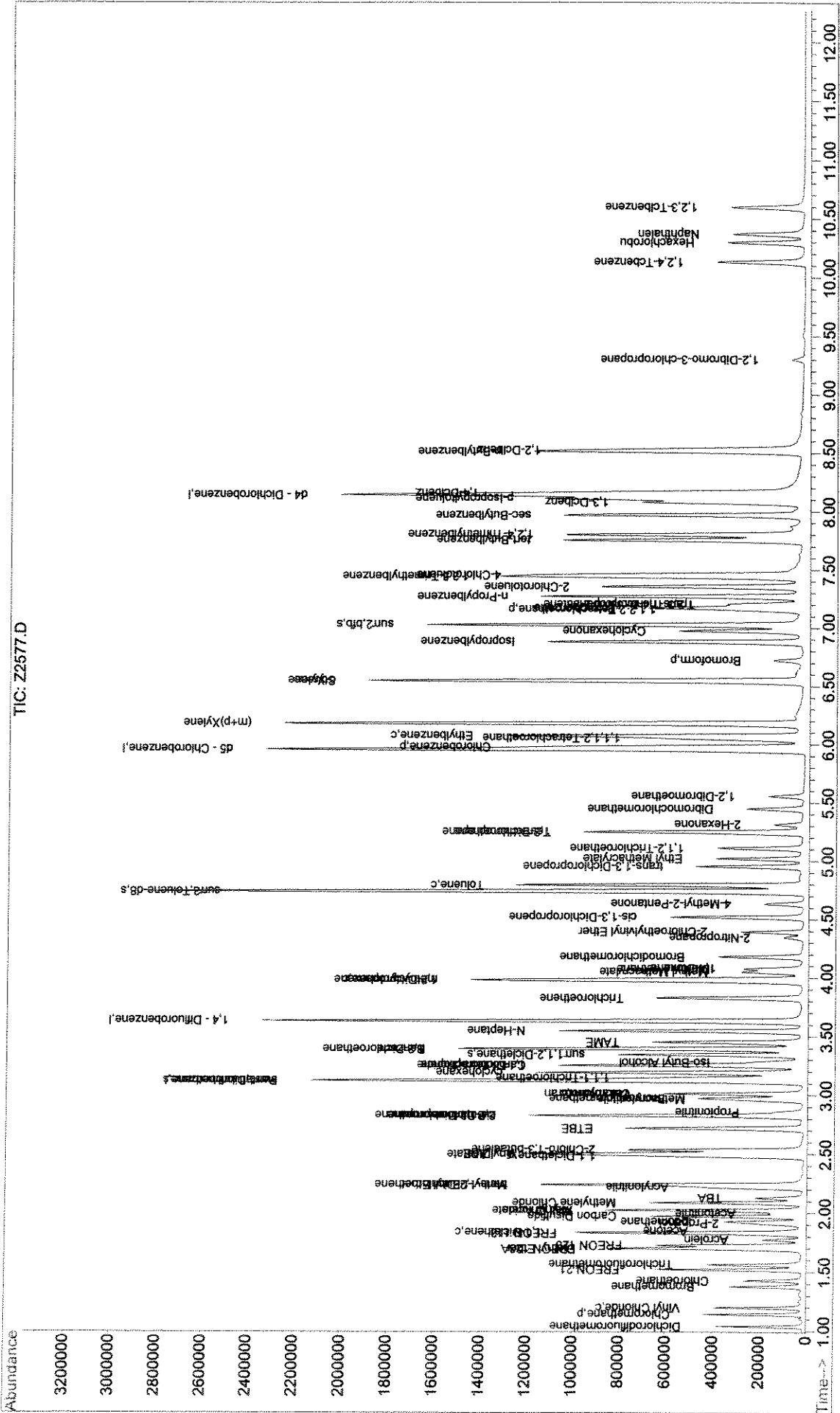
(#) = qualifier out of range (m) = manual integration
 Z2577.D W060208.M Wed Jun 25 11:38:15 2008

Data File : J:\ACQDATA\MSVOA8\DATA\062508\Z2577.D
 Acq On : 25 Jun 2008 11:25 am
 Sample : LCS
 Misc :
 MS Integration Params: RTEINT.P
 Quant Time: Jun 25 11:37 2008

Vial: 6
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

Quant Results File: W060208.RES

Method : J:\ACQDATA\MSVOA8\METHODS\W060208.M (RTE Integrator)
 Title : 8260vova
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1117318 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163915

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/26/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	1.0	24	UG/L
BROMOBENZENE	2.0	23	UG/L
BROMOCHLOROMETHANE	2.0	22	UG/L
BROMODICHLOROMETHANE	1.0	21	UG/L
BROMOFORM	1.0	22	UG/L
BROMOMETHANE	2.0	18	UG/L
2-BUTANONE (MEK)	10	17	UG/L
TERT-BUTYL ALCOHOL	100	410	UG/L
METHYL-TERT-BUTYL ETHER	1.0	19	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	19	UG/L
TERT-BUTYLBENZENE	2.0	22	UG/L
SEC-BUTYLBENZENE	2.0	24	UG/L
N-BUTYLBENZENE	5.0	23	UG/L
CARBON TETRACHLORIDE	1.0	19	UG/L
CHLOROBENZENE	1.0	23	UG/L
CHLOROETHANE	2.0	19	UG/L
CHLOROFORM	1.0	20	UG/L
CHLOROMETHANE	2.0	22	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	20	UG/L
2-CHLOROTOLUENE	5.0	20	UG/L
4-CHLOROTOLUENE	5.0	22	UG/L
DIBROMOCHLOROMETHANE	1.0	21	UG/L
1,2-DIBROMOETHANE	1.0	20	UG/L
DIBROMOMETHANE	1.0	21	UG/L
1,2-DICHLOROBENZENE	2.0	23	UG/L
1,4-DICHLOROBENZENE	2.0	24	UG/L
1,3-DICHLOROBENZENE	2.0	24	UG/L
DICHLORODIFLUOROMETHANE	1.0	26	UG/L
1,1-DICHLOROETHANE	1.0	20	UG/L
1,2-DICHLOROETHANE	1.0	19	UG/L
1,1-DICHLOROETHENE	1.0	21	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	20	UG/L
CIS-1,2-DICHLOROETHENE	1.0	21	UG/L
2,2-DICHLOROPROPANE	2.0	19	UG/L
1,2-DICHLOROPROPANE	1.0	23	UG/L
1,3-DICHLOROPROPANE	2.0	20	UG/L
1,1-DICHLOROPROPENE	2.0	24	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	19	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	23	UG/L
ETHYLBENZENE	1.0	24	UG/L
HEXACHLOROBUTADIENE	5.0	23	UG/L
2-HEXANONE	10	18	UG/L
DI-ISOPROPYL ETHER	1.0	19	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B.DOD
 Reported: 07/30/08

Project Reference:
 Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1117318 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163915

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/26/08		
ANALYTICAL DILUTION:	1.00		
ISOPROPYLBENZENE	2.0	24	UG/L
P-ISOPROPYLTOLUENE	2.0	23	UG/L
TERT-AMYL-METHYL ETHER	1.0	21	UG/L
METHYLENE CHLORIDE	2.0	19	UG/L
NAPHTHALENE	2.0	23	UG/L
4-METHYL-2-PENTANONE	10	17	UG/L
N-PROPYLBENZENE	2.0	22	UG/L
STYRENE	1.0	24	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	22	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	20	UG/L
TETRACHLOROETHENE	1.0	25	UG/L
TOLUENE	1.0	23	UG/L
1,2,4-TRICHLOROBENZENE	2.0	23	UG/L
1,2,3-TRICHLOROBENZENE	2.0	23	UG/L
1,1,1-TRICHLOROETHANE	1.0	19	UG/L
1,1,2-TRICHLOROETHANE	1.0	21	UG/L
TRICHLOROETHENE	1.0	22	UG/L
TRICHLOROFLUOROMETHANE	1.0	18	UG/L
1,2,3-TRICHLOROPROPANE	2.0	17	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	22	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	22	UG/L
VINYL CHLORIDE	1.0	21	UG/L
M+P-XYLENE	2.0	48	UG/L
O-XYLENE	1.0	24	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	106	%
TOLUENE-D8	(70 - 130 %)	100	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2608.D
 Acq On : 26 Jun 2008 12:50 pm
 Sample : LCS
 Misc :

Vial: 7
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Jun 26 13:02 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

RJH 6/26

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.13	168	757545	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	3.64	114	1404230	50.00	ppb	0.00
63) d5 - Chlorobenzene	5.96	117	1219990	50.00	ppb	0.00
85) d4 - Dichlorobenzene	8.15	152	508950	50.00	ppb	0.00

System Monitoring Compounds

43) surr4,Dibrflmethane	3.12	113	403943	48.15	ppb	0.00
Spiked Amount	50.000		Recovery	=	96.30%	
48) surr1,1,2-Diclcethane	3.36	65	372693	42.42	ppb	0.00
Spiked Amount	50.000		Recovery	=	84.84%	
69) surr3,Toluene-d8	4.75	98	1575703	50.03	ppb	0.00
Spiked Amount	50.000		Recovery	=	100.06%	
70) surr2,bfb	7.04	95	588958	52.76	ppb	0.00
Spiked Amount	50.000		Recovery	=	105.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.04	85	197126	25.63	ppb	99
4) Chloromethane	1.14	50	277081	22.44	ppb	100
5) Vinyl Chloride	1.20	62	237604	21.16	ppb	98
6) Bromomethane	1.38	94	133302	18.19	ppb	93
7) Chloroethane	1.43	64	152514	19.34	ppb	95
8) FREON 21	1.53	67	385685	20.80	ppb	100
9) Trichlorofluoromethane	1.57	101	216514	18.27	ppb	99
10) Diethyl Ether	1.71	59	127138	19.77	ppb	95
11) FREON 123A	1.70	85	75738	17.49	ppb	84
12) FREON 123	1.73	85	145345	16.89	ppb	93
13) Acrolein	1.78	56	86437	88.31	ppb	99
14) FREON 113	1.83	85	74940	22.43	ppb	94
15) 1,1-Diclcethene	1.84	96	157927	20.83	ppb	97
16) Acetone	1.86	43	31406	17.34	ppb	# 84
17) 2-Propanol	1.91	45	133802	445.31	ppb	97
18) Iodomethane	1.93	127	82863	19.56	ppb	72
19) Carbon Disulfide	1.98	76	509341	18.40	ppb	99
20) Acetonitrile	2.00	40	34177	75.79	ppb	90
21) Allyl Chloride	2.03	76	100124	20.75	ppb	75
22) Methyl Acetate	2.03	43	115649	19.48	ppb	99
23) Methylene Chloride	2.09	84	181621	19.43	ppb	98
24) TBA	2.13	59	175281	407.27	ppb	95
25) Acrylonitrile	2.22	53	218393	99.39	ppb	100
26) Methyl-t-Butyl Ether	2.24	73	350342	19.28	ppb	97
27) trans-1,2-Dichloroethene	2.25	96	175581	19.92	ppb	98
28) 1,1-Diclcethane	2.49	63	371230	20.07	ppb	99
29) DIPE	2.51	45	775233	19.17	ppb	99
30) Vinyl Acetate	2.50	86	16892	14.52	ppb	75
31) 2-Chloro-1,3-butadiene	2.54	53	312580	19.01	ppb	89
32) ETBE	2.72	59	525016	19.45	ppb	98
33) 2,2-Dichloropropane	2.84	77	254086	19.45	ppb	97
34) 2-Butanone	2.83	43	56599	17.06	ppb	95
35) cis-1,2-Dichloroethene	2.83	96	195113	20.97	ppb	93
36) Propionitrile	2.87	54	72994	101.41	ppb	95
37) Methacrylonitrile	2.96	67	42188	19.60	ppb	92

(#) = qualifier out of range (m) = manual integration
 Z2608.D W060208.M Thu Jun 26 13:02:57 2008

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2608.D

Vial: 7

Acq On : 26 Jun 2008 12:50 pm

Operator: Herring

Sample : LCS

Inst : MS #8

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 26 13:02 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)

Title : 8260voa

Last Update : Tue Jun 03 13:30:30 2008

Response via : Initial Calibration

DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	2.98	128	77214	21.70	ppb	95
39) Chloroform	3.02	83	309380	20.31	ppb	98
40) Tetrahydrofuran	3.02	42	35151	18.92	ppb	99
41) 1,1,1-Trichloroethane	3.16	97	232069	18.74	ppb	93
44) cyclohexane	3.20	56	410389	23.76	ppb	99
45) Carbontetrachloride	3.27	117	170723	18.67	ppb	99
46) 1,1-Dichloropropene	3.26	75	281870	23.91	ppb	99
47) Iso-Butyl Alcohol	3.30	43	98292	490.79	ppb	99
49) Benzene	3.40	78	799836	24.31	ppb	99
50) 1,2-Dichloroethane	3.40	62	192078	19.42	ppb	99
51) TAME	3.46	73	385071	20.63	ppb	96
52) N-Heptane	3.55	43	388771	25.26	ppb	98
53) Trichloroethene	3.84	95	180097	22.56	ppb	88
54) methylcyclohexane	3.99	55	316570	23.08	ppb	96
55) 1,2-Diclpropane	4.00	63	214854	23.02	ppb	100
56) Methyl Methacrylate	4.06	69	76480	21.31	ppb	82
57) 1,4-Dioxane	4.09	88	18865	588.56	ppb	95
58) Dibromomethane	4.08	93	81202	20.99	ppb	93
59) Bromodichloromethane	4.19	83	205712	20.63	ppb	100
60) 2-Nitropropane	4.35	43	60808	34.15	ppb	95
61) 2-Chloroethylvinyl Ether	4.40	63	81151	21.04	ppb	98
62) cis-1,3-Dichloropropene	4.53	75	283082	23.27	ppb	99
64) 4-Methyl-2-Pentanone	4.64	43	115665	16.80	ppb	97
65) Toluene	4.80	91	775674	22.94	ppb	98
66) trans-1,3-Dichloropropene	4.97	75	207768	19.29	ppb	95
67) Ethyl Methacrylate	5.03	69	163538	20.01	ppb	97
68) 1,1,2-Trichloroethane	5.12	83	97202	20.84	ppb	95
71) Tetrachloroethene	5.26	166	174273	25.48	ppb	91
72) 2-Hexanone	5.33	43	78636	17.58	ppb	98
73) 1,3-Dichloropropane	5.27	76	215434	20.30	ppb	87
74) Dibromochloromethane	5.46	129	125219	20.87	ppb	92
75) 1,2-Dibromoethane	5.57	107	103627	20.48	ppb	97
76) Chlorobenzene	5.99	112	469195	23.23	ppb	94
77) 1,1,1,2-Tetrachloroethane	6.06	131	141001	21.81	ppb	99
78) Ethylbenzene	6.08	91	850779	23.65	ppb	98
79) (m+p)Xylene	6.19	106	635285	48.52	ppb	98
80) o-Xylene	6.55	106	301081	24.59	ppb	91
81) Styrene	6.57	104	511194	24.21	ppb	94
82) Bromoform	6.73	173	57173	22.36	ppb	96
83) Isopropylbenzene	6.89	105	789149	24.23	ppb	98
84) Cyclohexanone	6.99	55	257309	534.52	ppb	95
86) 1,1,2,2-Tetrachloroethane	7.17	83	121435	20.23	ppb	97
87) Trans-1,4-Dichloro-2-buten	7.22	53	31216	16.26	ppb	93
88) 1,2,3-Trichloropropane	7.22	110	29190	16.82	ppb	97
89) n-Propylbenzene	7.28	91	928944	21.82	ppb	99
90) Bromobenzene	7.18	156	153108	23.13	ppb	88
92) 1,3,5-Trimethylbenzene	7.45	105	640620	22.26	ppb	92
93) 2-Chlorotoluene	7.37	91	502147	20.35	ppb	98
94) 4-Chlorotoluene	7.47	91	632568	22.41	ppb	97
95) tert-Butylbenzene	7.77	119	541530	22.42	ppb	90

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

Z2608.D W060208.M

Thu Jun 26 13:02:58 2008

Page 2

00348

Data File : J:\ACQUDATA\MSVOA8\DATA\062608\Z2608.D
 Acq On : 26 Jun 2008 12:50 pm
 Sample : LCS
 Misc :

Vial: 7
 Operator: Herring
 Inst : MS #8
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Jun 26 13:02 2008

Quant Results File: W060208.RES

Quant Method : J:\ACQUDATA\M...\W060208.M (RTE Integrator)
 Title : 8260voa
 Last Update : Tue Jun 03 13:30:30 2008
 Response via : Initial Calibration
 DataAcq Meth : W060208

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,4-Trimethylbenzene	7.81	105	615670	22.20	ppb	96
97) sec-Butylbenzene	7.98	105	846182	23.94	ppb	97
98) p-Isopropyltoluene	8.12	119	692481	23.09	ppb	96
99) 1,3-Dclbenz	8.09	146	303403	23.89	ppb	95
100) 1,4-Dclbenz	8.18	146	309313	23.65	ppb	94
102) n-Butylbenzene	8.53	91	629094	23.07	ppb	96
103) 1,2-Dclbenz	8.54	146	262189	23.04	ppb	95
104) 1,2-Dibromo-3-chloropropan	9.31	157	15329	20.49	ppb #	84
106) 1,2,4-Tcbenzene	10.14	180	138012	23.19	ppb	100
107) Hexachlorobu	10.31	225	71264	22.74	ppb	98
108) Naphthalen	10.38	128	316153	23.04	ppb #	94
109) 1,2,3-Tclbenzene	10.61	180	118550	23.39	ppb	96

(#) = qualifier out of range (m) = manual integration
 Z2608.D W060208.M Thu Jun 26 13:02:58 2008

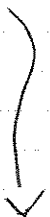
06/02/08 MS#8

060208/Z...

4/3/08 MS#

- 1 BLK
- 2 BLK
- 3 Tune (Test)
- 4 Tune (Test)
- 5 Tune Check
- 6 Inst. BLK
- 7 Inst. BLK
- 8 0.5 ppb
- 9 1.0 ppb
- 10 2.0 ppb
- 11 5.0 ppb
- 12 10 ppb
- 13 50 ppb
- 14 100 ppb
- 15 200 ppb
- 16 BLK
- 17 BLK
- 18 1CV 50
- 19 BLK

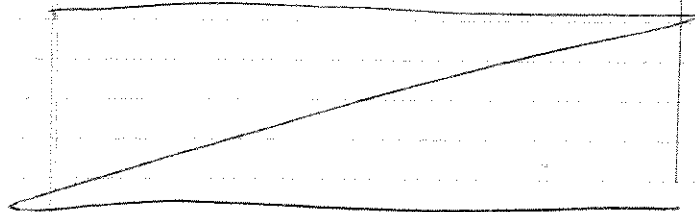
[8260B Initial Calibration
Waters - 10mL purge]



- Z2129 -
- Z2130 -
- Z2131 NT
- Z2132 NT - Adjust
- Z2133 Y
- Z2134 -N wrong meter
- Z2135 YB
- Z2136 Y
- Z2137 Y
- Z2138 Y
- Z2139 Y
- Z2140 Y
- Z2141 Y
- Z2142 Y
- Z2143 Y
- Z2144 -
- Z2145 -
- Z2146 YQ
- Z2147 -

- 1 BLK
- 2 BLK
- 3 BLK
- 4 BLK
- 5 Tune C
- 6 CCV
- 7 LCS
- 8 BLK
- 9 Met BLK
- 10 1104774
- 11 775
- 12 777
- 13 778
- 14 780
- 15 1104797
- 16 798
- 17 799
- 18 1104950
- 19 951
- 20 952
- 21 954
- 22 955
- 23 956
- 24 957
- 25 958

10mL/50
5mL/50
↓



2+/-firing

I-CAL LEVEL (PPB)	1° T/G 500ppm	1° HSL 500ppm	1° OXYGENAES 500ppm	FreonS 200ppm	CENTURION METHOD	SURROGATE CONC (PPB)
	MSVD135G	MSVD137B	MSVD132B	MSVD137A	-	-
0.5	10mL/1mL MeOH 5µL/50mL DI			25µL/1mL MeOH " " "	MSV MET 1	N/A
1.0	10µL/1mL MeOH 10µL/50mL DI			25µL/1mL MeOH " " "	MSV MET 1	N/A
2.0	10µL/1mL MeOH 20µL/50mL DI			25µL/1mL MeOH " " "	MSV10MS	12.5
5.0	1µL/100mL DI			2.5µL/100mL DI	MSV20MS	25
10	1µL/50mL DI			2.5µL/50mL DI	MSV30MS	37.5
50	5µL/50mL DI			12.5µL/50mL DI	MSV MET 1	50
100	10µL/50mL DI			25µL/50mL DI	MSV2x40	100
200	20µL/50mL DI			50µL/50mL DI	MSV4x40	200

- 26 1096303
- 27 1104214
- 28 214

- 1° T/G 500
- 1° HSL 500
- 1° OXY 500
- FreonS 200
- 2° T/G 500
- 2° HSL 500
- 2° OXY 500
- FreonS 500

6/24/08 MS#8

1062408/Z...

6/25/08 MS#8

102

1 BLK

2 BLK

3 BLK

4 Tune Check

5 Tune Check, 1µl of MSVD1320 / 100 mL DI → 10 mL purge

6 CCV

7 LCS

8 BLK

9 METBLK

10 1110562 1.0MS [REDACTED] R-44585 82608.WSTF

11 562 1.0MSD

12 BLK

(10ml) 13 563 1.0

14 564 1.0

15 565 1.0

16 566 1.0

17 567 1.0

18 568 1.0

19 569 1.0

20 570 1.0

21 1109708 1.0 [REDACTED] R-44538 82608.DODD

22 1110532 1.0

23 1110981 1.0

24 982 1.0

25 1111264 1.0

26 765 1.0

27 266 1.0

28 267 1.0

29 268 1.0

30 269 1.0

163912

1117312

1117311

Vial# ptt

2 <2

3 <2

- -

1 <2

1 <2

1 <2

1 <2

1 <2

1 <2

1 <2

1 <2

2 <2

2 <2

2 <2

1 <2

2 <2

2 <2

2 <2

2 <2

1 <2

1 <2

Z2542 -

Z2543 -

Z2544 -

Z2545 NT ^{MS} 172

Z2546 YT

Z2547 YL

Z2548 YQ

Z2549 -

Z2550 YM

Z2551 YR

Z2552 YS

Z2553 -

Z2554 Y

Z2555 Y

Z2556 Y

Z2557 Y

Z2558 Y

Z2559 Y

Z2560 Y

Z2561 Y

Z2562 Y

Z2563 Y

Z2564 Y

Z2565 Y

Z2566 Y

Z2567 Y

Z2568 Y

Z2569 Y

Z2570 Y

Z2571 Y

1 BLK

2 BLK

3 BLK

4 Tune Check, 1µl ^(Surf 500) MSVD1320

5 CCV

6 LCS

7 BLK

8 METBLK

(10ml) 9 1110571 1.0 [REDACTED] R-4458

10 572 1.0

11 571 1.0MS

12 571 1.0MSD

13 BLK

14 573 1.0

15 1110954 1.0 [REDACTED] R-44

16 955 1.0

17 956 1.0

18 957 1.0

19 ^{TT} 1111763 1.0 [REDACTED] R-44

20 764 1.0

(5ml/50) 21 765 1.0

22 767 1.0

23 768 1.0

24 1111807 1.0 [REDACTED] R-

25 808 1.0

26 809 1.0

27 811 1.0

28 817 1.0

29 821 1.0

30 BLK

1° T/G 500 MSVD139J, 5µl

1° HSL 500 MSVD143A, 5µl

1° OXY 500 MSVD132B, 5µl

Freons 200 MSVD137A, 12.5µl

2° T/G 500 MSVD145C, 2µl

2° HSL 500 MSVD146G, 2µl

2° OXY 500 MSVD133A, 2µl

Freons 500 MSVD138A, 2µl

CENTURION: IS 100 MSVD144C } 5µl in all but Tune Check

Surf 100 MSVD136K

R. Herring

50ml DI → 10ml purged CCV

50ml DI → 10ml purged LCS
4.25µl / 42.5µl
- / MS + MSD
4.25µl

1° T/G 500 MSVD139J, 5µl

1° HSL 500 MSVD143A, 5µl

1° OXY 500 MSVD132B, 5µl

Freons 200 MSVD137A, 12.5µl

2° T/G 500 MSVD145C, 2µl

2° HSL 500 MSVD146G, 2µl

2° OXY 500 MSVD133A, 2µl

Freons 500 MSVD138A, 2µl

CENTURION: IS 100 MSVD144C } 5µl in all but Tune Check

Surf 100 MSVD136K

Surf 100 MSVD136K

6/25/08 MS#8

062508/Z....

163914

(Surf 500)

Turn Check, 1ml MSVD132D/100ml DI → 10ml purge (0:24AM)

117316

117315

(10:50 AM)
10ml purge

Vial#	pt
2	<2
3	<2
-	-
1	<2
1	<2
1	<2
1	<2
1	<2
1	<2
1	<2
1	<2
2	<2
2	<2
2	<2
2	<2
2	<2
2	<2
2	<2
1	<2
1	<2

22542	-	1	BLK
22543	-	2	BLK
22544	-	3	BLK
22545	NT	4	Turn Check, 1ml MSVD132D/100ml DI → 10ml purge (0:24AM)
22546	YT	5	CCV
22547	YC	6	LCS
22548	YQ	7	BLK
22549	-	8	METBLK
22550	YM	9	(10ml) 1110571 1.0 [REDACTED] R-44585 82608.WSTF]
22551	YR	10	572 1.0
22552	YR	11	571 1.0MS
22553	-	12	571 1.0MSD
22554	Y	13	BLK
22555	Y	14	573 1.0
22556	Y	15	1110954 1.0 [REDACTED] R-44604 82608.WSTF]
22557	Y	16	955 1.0
22558	Y	17	956 1.0
22559	Y	18	957 1.0
22560	Y	19	1111763 1.0 [REDACTED] R-44538 82608.D000]
22561	Y	20	764 1.0
22562	Y	21	(5ml/50) 765 1.0
22563	Y	22	767 1.0
22564	Y	23	768 1.0
22565	Y	24	1111807 1.0 [REDACTED] R-44637 82608.WSTF]
22566	Y	25	808 1.0
22567	Y	26	809 1.0
22568	Y	27	811 1.0
22569	Y	28	817 1.0
22570	Y	29	821 1.0
22571	Y	30	BLK

VIAL# pH

22572	-
22573	-
22574	-
22575	YT
22576	YC
22577	YR
22578	-
22579	YM
22580	Y
22581	Y
22582	YR
22583	YR
22584	-
22585	Y
22586	Y
22587	Y
22588	Y
22589	Y
22590	Y
22591	Y
22592	Y
22593	Y
22594	Y
22595	Y
22596	Y
22597	Y
22598	Y
22599	Y
22600	Y
22601	-

REPT
PURITY OF ANALYTES NOT AS SPECIFIED

R. Herring

cc purged CCV

L purged LCS

4.25µl	4.25µl	42.5µl
-	-	ms + msd
4.25µl		

wt Time Check

R. Herring

1° T/G 500 MSVD1395, 5µl
 1° HSL 500 MSVD143A, 5µl
 1° OXY 500 MSVD132B, 5µl
 Freons 200 MSVD137A, 12.5µl
 2° T/G 500 MSVD145L, 2µl
 2° H/L 500 MSVD146G, 2µl
 2° OXY 500 MSVD135A, 2µl
 Freons 500 CENTURION MSVD138A, 2µl
 CENTURION IS 100 MSVD141C } 5µl in All but Time Check
 SURT 100 MSVD136K }

50ml → 10ml purged CCV DI

50ml → 10ml purged LCS

4.25µl	4.25µl	42.5µl
-	-	ms + msd
4.25µl		

6/26/08 MS#8

162608/Z...

163915

1117318

1117317

			VIAL#	pH
1	BLK			
2	BLK			
3	BLK			
4	Turn Check, 1µl MSVD1320/100µl DI	→ 10µl purge (11:26 AM)		
5	CCV			
6	CCV			
7	LCS			
8	BLK			
9	MET BLK			
(10ml) 10	1111786 1.0	[R-44636 8260B.WSL]	1	<2
11	787 1.0		1	<2
(2.5ml/50) 12	1111765 20	[R-44538 8260B.DODO]	3	<2
13	1111786 1.0MS	[R-44636 8260B.WSL]	2	<2
14	786 1.0MSD		3	<2
15	BLK		-	-
16	1112476 1.0	[R-44683 8260B.TCLH]	2	<2
17	1111822 1.0	[R-44637 8260B.WSTF]	1	<2
18	823 1.0		1	<2
19	824 1.0		1	<2
20	825 1.0		1	<2
21	826 1.0		1	<2
22	827 1.0		1	<2
23	828 1.0		1	<2
24	831 1.0		1	<2
25	832 1.0		1	<2
26	833 1.0		1	<2
27	834 1.0		1	<2
(5ml/50) 28	1110524 10	[Monsieur R-44562 8260B.GAL]	1	<2
↓ 29	525 10		1	<2

Z2602	-
Z2603	-
Z2604	-
Z2605	YT
Z2606	N- wrong run method
Z2607	YL
Z2608	Y
Z2609	-
Z2610	YM
Z2611	Y
Z2612	Y
Z2613	Y
Z2614	Y
Z2615	Y
Z2616	-
Z2617	Y
Z2618	Y
Z2619	Y
Z2620	Y
Z2621	Y
Z2622	Y
Z2623	Y pH 1/2
Z2624	Y
Z2625	Y
Z2626	Y
Z2627	Y
Z2628	Y
Z2629	Y
Z2630	Y (11:02pm)

6/27/08 MS#8

1	BLK			
2	BLK			
3	BLK			
4	Turn Check, 1µl MSVD			
5	CCV			
6	LCS			
7	BLK			
8	MET BLK			
(20ml/50) 9	1111827 2.0	[R-44636 8260B.WSL]	1	<2
(10ml) 10	1110003 1.0	[R-44636 8260B.WSL]	1	<2
11	004 1.0		1	<2
12	005 1.0		1	<2
13	006 1.0		1	<2
14	007 1.0		1	<2
15	008 1.0MS		1	<2
16	008 1.0MSD		1	<2
17	1110534 1.0	[R-44636 8260B.WSL]	1	<2
18	536 1.0		1	<2
19	537 1.0		1	<2
20	538 1.0		1	<2
21	539 1.0		1	<2
22	540 1.0		1	<2
23	541 1.0		1	<2
24	542 1.0		1	<2
25	543 1.0		1	<2
26	545 1.0		1	<2
27	1110010 1.0	[R-44636 8260B.WSL]	1	<2
28	013 1.0		1	<2
29	465 1.0		1	<2

2 Herring

1" T/G 500 MSVD139J, 5µl
 1" H/L 500 MSVD143A, 5µl
 1" OXY 500 MSVD132B, 5µl
 Frons 200 MSVD137A, 12.5µl
 2" T/G 500 MSVD145L, 2µl
 2" H/L 500 MSVD146G, 2µl
 2" OXY 500 MSVD135A, 2µl
 Frons P 500 MSVD138A, 2µl

50µl DI → 10µl purged CCV
 50µl DI → 10µl purged LCS

4.25µl
 4.25µl
 -
 4.25µl

42.5ml
 ms + msd

CENTURION: IS 100 MSVD141C
 SWT 100 MSVD136K } 5µl in all but Turn Check

1" T/G 500 MSVD139J,
 1" H/L 500 MSVD143A,
 1" OXY 500 MSVD132B,
 Frons 200 MSVD137A,
 2" T/G 500 MSVD145L,
 2" H/L 500 MSVD146G,
 2" OXY 500 MSVD135A,
 Frons 500 MSVD138A

CENTURION: IS 100 M
 SWT 100 M

SEMIVOLATILE ORGANICS

QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
WATER

Spiked Order No. : 1113574

Dup Spiked Order No. : 1113575

Client ID:

Test: 8270C.NEVA

Analytical Units: UG/L

Run Number : 163181

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		BLANK SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
ACENAPHTHENE	0.50	0	0.440	88	0.460	92	4	30	50 - 120
ACENAPHTHYLENE	0.50	0	0.440	88	0.450	90	2	30	50 - 120
ANTHRACENE	0.50	0	0.390	78	0.400	80	3	30	50 - 120
BENZO (A) ANTHRACENE	0.50	0	0.420	84	0.430	86	2	30	50 - 120
BENZO (A) PYRENE	0.50	0	0.360	72	0.350	70	3	30	50 - 120
BENZO (B) FLUORANTHENE	0.50	0	0.400	80	0.430	86	7	30	50 - 120
BENZO (G, H, I) PERYLENE	0.50	0	0.460	92	0.460	92	0	30	50 - 120
BENZO (K) FLUORANTHENE	0.50	0	0.420	84	0.430	86	2	30	50 - 120
BUTYL BENZYL PHTHALATE	0.50	0	0.590	118	0.520	104	13	30	50 - 120
DI-N-BUTYLPHthalate	0.50	0	1.00	200 *	0.840	168 *	17	30	50 - 120
INDENO (1, 2, 3-CD) PYRENE	0.50	0	0.520	104	0.530	106	2	30	50 - 120
CHRYSENE	0.50	0	0.410	82	0.420	84	2	30	50 - 120
DIBENZO (A, H) ANTHRACENE	0.50	0	0.560	112	0.560	112	0	30	50 - 120
DIETHYLPHthalate	0.50	0	0.480	96	0.470	94	2	30	50 - 120
DIMETHYL PHTHALATE	0.50	0	0.420	84	0.430	86	2	30	50 - 120
1, 4-DIOXANE	5.0	0	2.10	42 *	2.20	44 *	5	30	50 - 120
BIS (2-ETHYLHEXYL) PHTHA	5.0	0	4.80	96	4.80	96	0	30	50 - 120
FLUORANTHENE	0.50	0	0.440	88	0.460	92	4	30	50 - 120
FLUORENE	0.50	0	0.470	94	0.510	102	8	30	50 - 120
HEXACHLOROBENZENE	0.50	0	0.340	68	0.350	70	3	30	50 - 120
2-METHYLNAPHTHALENE	0.50	0	0.310	62	0.310	62	0	30	50 - 120
NAPHTHALENE	0.50	0	0.400	80	0.410	82	2	30	50 - 120
NITROBENZENE	0.50	0	0.380	76	0.400	80	5	30	50 - 120
OCTACHLOROSTYRENE	0.50	0	0.320	64	0.420	84	27	30	50 - 120
DI-N-OCTYL PHTHALATE	0.50	0	0.690	138 *	0.720	144 *	4	30	50 - 120
PHENANTHRENE	0.50	0	0.440	88	0.440	88	0	30	50 - 120
PYRENE	0.50	0	0.440	88	0.430	86	2	30	50 - 120
PYRIDINE	3.0	0	0.950	32 *	1.00	33 *	5	30	50 - 120

Data File Name AR990.D
 Data File Path J:\ACQU\DATA\5973C\DATA\063008\
 Sample Name 1113574 1.0

#	Name	Amount	Units	PPM	% REC.	F or P	LcsLimits	MsLimits
2)	1,4-Dioxane	2.08	ppm	5	42%	F ↓	50-120	31-80
3)	Pyridine	0.95	ppm	3	32%	F ↓	50-120	50-150
5)	SURR4,NITROBENZENE-D5	1.45	ppm	2	73%	P	45-135	22-124
6)	Nitrobenzene	0.38	ppm	0.5	76%	P	50-120	50-150
7)	Naphthalene	0.40	ppm	0.5	80%	P	50-120	33-121
8)	2-Methylnaphthalene	0.31	ppm	0.5	62%	P	50-120	42-130
9)	1-Methylnaphthalene	0.30	ppm	0.5	60%	F N.T.	62-102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.32	ppm	2	66%	P	45-135	27-114
12)	Acenaphthylene	0.44	ppm	0.5	89%	P	50-120	51-115
13)	Dimethyl phthalate	0.42	ppm	0.5	84%	P	50-120	50-150
14)	Acenaphthene	0.44	ppm	0.5	89%	P	50-120	44-112
15)	Dibenzofuran	0.44	ppm	0.5	88%	P	50-150	50-150
16)	Fluorene	0.47	ppm	0.5	95%	P	50-120	38-121
17)	Diethylphthalate	0.48	ppm	0.5	97%	P	50-120	50-150
19)	Hexachlorobenzene	0.34	ppm	0.5	69%	P	50-120	47-108
20)	Phenanthrene	0.44	ppm	0.5	87%	P	50-120	54-114
21)	Anthracene	0.39	ppm	0.5	79%	P	50-120	51-119
22)	Carbazole	0.50	ppm	0.5	99%	P	40-150	40-150
23)	Octachlorostyrene	0.32	ppm	0.5	64%	P	50-120	50-150
24)	Di-n-butylphthalate	1.02	ppm	0.5	204%	F ↑	50-120	50-150
25)	Fluoranthene	0.44	ppm	0.5	88%	P	50-120	59-117
27)	Pyrene	0.44	ppm	0.5	87%	P	50-120	55-115
28)	SURR6,TERPHENYL-D14	1.79	ppm	2	89%	P	45-135	23-139
29)	Butylbenzylphthalate	0.59	ppm	0.5	118%	P	50-120	50-150
30)	bis(2-Ethylhexyl)phthalate	4.78	ppm	5	96%	P	50-120	55-130
31)	Benzo(a)anthracene	0.42	ppm	0.5	85%	P	50-120	58-115
32)	Chrysene	0.41	ppm	0.5	82%	P	50-120	55-113
34)	Di-n-octylphthalate	0.69	ppm	0.5	138%	F ↑	50-120	50-150
35)	Benzo(b)Fluoranthene	0.40	ppm	0.5	80%	P	50-120	45-121
36)	Benzo(k)fluoranthene	0.42	ppm	0.5	83%	P	50-120	47-119
37)	Benzo(a)pyrene	0.36	ppm	0.5	72%	P	50-120	36-119
38)	Indeno(1,2,3-cd)Pyrene	0.52	ppm	0.5	104%	P	50-120	47-119
39)	Dibenz(a,h)anthracene	0.56	ppm	0.5	113%	P	50-120	47-116
40)	Benzo(g,h,i)perylene	0.46	ppm	0.5	91%	P	50-120	39-122

Data File Name AR991.D

Data File Path J:\ACQUDATA\5973C\DATA\063008\

Sample Name 1113575 1.0

#	Name	Amount	Units	PPM	% REC.	F or P	LcsLimits	MsLimits
2)	1,4-Dioxane	2.19	ppm	5	44%	F ↓	50-120	31-80
3)	Pyridine	1.00	ppm	3	33%	F ↓	50-120	50-150
5)	SURR4,NITROBENZENE-D5	1.50	ppm	2	75%	P	45-135	22-124
6)	Nitrobenzene	0.40	ppm	0.5	80%	P	50-120	50-150
7)	Naphthalene	0.41	ppm	0.5	81%	P	50-120	33-121
8)	2-Methylnaphthalene	0.31	ppm	0.5	63%	P	50-120	42-130
9)	1-Methylnaphthalene	0.31	ppm	0.5	63%	P	62-102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.39	ppm	2	69%	P	45-135	27-114
12)	Acenaphthylene	0.45	ppm	0.5	91%	P	50-120	51-115
13)	Dimethyl phthalate	0.43	ppm	0.5	86%	P	50-120	50-150
14)	Acenaphthene	0.46	ppm	0.5	91%	P	50-120	44-112
15)	Dibenzofuran	0.43	ppm	0.5	87%	P	50-150	50-150
16)	Fluorene	0.51	ppm	0.5	101%	P	50-120	38-121
17)	Diethylphthalate	0.47	ppm	0.5	95%	P	50-120	50-150
19)	Hexachlorobenzene	0.35	ppm	0.5	71%	P	50-120	47-108
20)	Phenanthrene	0.44	ppm	0.5	89%	P	50-120	54-114
21)	Anthracene	0.40	ppm	0.5	79%	P	50-120	51-119
22)	Carbazole	0.53	ppm	0.5	105%	P	40-150	40-150
23)	Octachlorostyrene	0.42	ppm	0.5	84%	P	50-120	50-150
24)	Di-n-butylphthalate	0.84	ppm	0.5	169%	F ↑	50-120	50-150
25)	Fluoranthene	0.46	ppm	0.5	92%	P	50-120	59-117
27)	Pyrene	0.43	ppm	0.5	87%	P	50-120	55-115
28)	SURR6,TERPHENYL-D14	1.81	ppm	2	90%	P	45-135	23-139
29)	Butylbenzylphthalate	0.52	ppm	0.5	104%	P	50-120	50-150
30)	bis(2-Ethylhexyl)phthalate	4.81	ppm	5	96%	P	50-120	55-130
31)	Benzo(a)anthracene	0.43	ppm	0.5	86%	P	50-120	58-115
32)	Chrysene	0.42	ppm	0.5	84%	P	50-120	55-113
34)	Di-n-octylphthalate	0.72	ppm	0.5	145%	F ↑	50-120	50-150
35)	Benzo(b)Fluoranthene	0.43	ppm	0.5	85%	P	50-120	45-121
36)	Benzo(k)fluoranthene	0.43	ppm	0.5	86%	P	50-120	47-119
37)	Benzo(a)pyrene	0.35	ppm	0.5	71%	P	50-120	36-119
38)	Indeno(1,2,3-cd)Pyrene	0.53	ppm	0.5	106%	P	50-120	47-119
39)	Dibenz(a,h)anthracene	0.56	ppm	0.5	112%	P	50-120	47-116
40)	Benzo(g,h,i)perylene	0.46	ppm	0.5	92%	P	50-120	39-122

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
WATER

Spiked Order No. : 1113599

Dup Spiked Order No. : 1113600

Client ID:

Test: 8270C.NEVA

Analytical Units: UG/L

Run Number : 163187

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		BLANK SPIKE DUP.			QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
ACENAPHTHENE	0.50	0	0.470	94	0.440	88	7	30	50 - 120
ACENAPHTHYLENE	0.50	0	0.470	94	0.460	92	2	30	50 - 120
ANTHRACENE	0.50	0	0.400	80	0.370	74	8	30	50 - 120
BENZO(A)ANTHRACENE	0.50	0	0.430	86	0.410	82	5	30	50 - 120
BENZO(A)PYRENE	0.50	0	0.360	72	0.340	68	6	30	50 - 120
BENZO(B)FLUORANTHENE	0.50	0	0.410	82	0.380	76	8	30	50 - 120
BENZO(G,H,I)PERYLENE	0.50	0	0.440	88	0.430	86	2	30	50 - 120
BENZO(K)FLUORANTHENE	0.50	0	0.410	82	0.380	76	8	30	50 - 120
BUTYL BENZYL PHTHALATE	0.50	0	0.510	102	0.480	96	6	30	50 - 120
DI-N-BUTYLPHTHALATE	0.50	0	0.670	134 *	0.640	128 *	5	30	50 - 120
INDENO(1,2,3-CD)PYRENE	0.50	0	0.510	102	0.490	98	4	30	50 - 120
CHRYSENE	0.50	0	0.400	80	0.390	78	3	30	50 - 120
DIBENZO(A,H)ANTHRACENE	0.50	0	0.540	108	0.520	104	4	30	50 - 120
DIETHYLPHTHALATE	0.50	0	0.450	90	0.420	84	7	30	50 - 120
DIMETHYL PHTHALATE	0.50	0	0.460	92	0.440	88	4	30	50 - 120
1,4-DIOXANE	5.0	0	2.00	40 *	2.00	40 *	0	30	50 - 120
BIS(2-ETHYLHEXYL)PHTHA	5.0	0	5.00	100	4.70	94	6	30	50 - 120
FLUORANTHENE	0.50	0	0.450	90	0.410	82	9	30	50 - 120
FLUORENE	0.50	0	0.530	106	0.520	104	2	30	50 - 120
HEXACHLORO BENZENE	0.50	0	0.380	76	0.330	66	14	30	50 - 120
2-METHYLNAPHTHALENE	0.50	0	0.330	66	0.300	60	10	30	50 - 120
NAPHTHALENE	0.50	0	0.400	80	0.380	76	5	30	50 - 120
NITROBENZENE	0.50	0	0.380	76	0.350	70	8	30	50 - 120
OCTACHLOROSTYRENE	0.50	0	0.430	86	0.370	74	15	30	50 - 120
DI-N-OCTYL PHTHALATE	0.50	0	0.700	140 *	0.670	134 *	4	30	50 - 120
PHENANTHRENE	0.50	0	0.430	86	0.400	80	7	30	50 - 120
PYRENE	0.50	0	0.470	94	0.430	86	9	30	50 - 120
PYRIDINE	0.050	0	0.090	180 *	0.040	80	77	30	50 - 120

Data File Name AR996.D
 Data File Path J:\ACQUDATA\5973C\DATA\063008\
 Sample Name 1113599 1.0

#	Name	Amount	Units	PPM	% REC.	F or P	LcsLimits	MsLimits
2)	1,4-Dioxane	1.98	ppm	5	32.71% 40%	F ↓	50-120	31-80
3)	Pyridine	0.09	ppm	30.4	18.3%	F ↓	50-120	50-150
5)	SURR4,NITROBENZENE-D5	1.56	ppm	2	78%	P	45-135	22-124
6)	Nitrobenzene	0.38	ppm	0.5	76%	P	50-120	50-150
7)	Naphthalene	0.40	ppm	0.5	81%	P	50-120	33-121
8)	2-Methylnaphthalene	0.33	ppm	0.5	67%	P	50-120	42-130
9)	1-Methylnaphthalene	0.34	ppm	0.5	68%	P	62-102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.41	ppm	2	71%	P	45-135	27-114
12)	Acenaphthylene	0.47	ppm	0.5	93%	P	50-120	51-115
13)	Dimethyl phthalate	0.46	ppm	0.5	92%	P	50-120	50-150
14)	Acenaphthene	0.47	ppm	0.5	94%	P	50-120	44-112
15)	Dibenzofuran	0.46	ppm	0.5	92%	P	50-150	50-150
16)	Fluorene	0.53	ppm	0.5	105%	P	50-120	38-121
17)	Diethylphthalate	0.45	ppm	0.5	91%	P	50-120	50-150
19)	Hexachlorobenzene	0.38	ppm	0.5	77%	P	50-120	47-108
20)	Phenanthrene	0.43	ppm	0.5	87%	P	50-120	54-114
21)	Anthracene	0.40	ppm	0.5	79%	P	50-120	51-119
22)	Carbazole	0.52	ppm	0.5	104%	P	40-150	40-150
23)	Octachlorostyrene	0.43	ppm	0.5	87%	P	50-120	50-150
24)	Di-n-butylphthalate	0.67	ppm	0.5	134%	F ↓	50-120	50-150
25)	Fluoranthene	0.45	ppm	0.5	89%	P	50-120	59-117
27)	Pyrene	0.47	ppm	0.5	93%	P	50-120	55-115
28)	SURR6,TERPHENYL-D14	1.93	ppm	2	96%	P	45-135	23-139
29)	Butylbenzylphthalate	0.51	ppm	0.5	101%	P	50-120	50-150
30)	bis(2-Ethylhexyl)phthalate	4.99	ppm	5	100%	P	50-120	55-130
31)	Benzo(a)anthracene	0.43	ppm	0.5	87%	P	50-120	58-115
32)	Chrysene	0.40	ppm	0.5	80%	P	50-120	55-113
34)	Di-n-octylphthalate	0.70	ppm	0.5	139%	F ↓	50-120	50-150
35)	Benzo(b)fluoranthene	0.41	ppm	0.5	83%	P	50-120	45-121
36)	Benzo(k)fluoranthene	0.41	ppm	0.5	82%	P	50-120	47-119
37)	Benzo(a)pyrene	0.36	ppm	0.5	72%	P	50-120	36-119
38)	Indeno(1,2,3-cd)Pyrene	0.51	ppm	0.5	101%	P	50-120	47-119
39)	Dibenz(a,h)anthracene	0.54	ppm	0.5	108%	P	50-120	47-116
40)	Benzo(g,h,i)perylene	0.44	ppm	0.5	89%	P	50-120	39-122

Data File Name AR997.D
 Data File Path J:\ACQU\DATA\5973C\DATA\063008\
 Sample Name 1113600 1.0

#	Name	Amount	Units	PPM	% REC.	F or P	LcsLimits	MsLimits
2)	1,4-Dioxane	2.00	ppm	5	40%	F ↓	50-120	31-80
3)	Pyridine	0.04	ppm	0.5	8%	F ↓	50-120	50-150
5)	SURR4,NITROBENZENE-D5	1.44	ppm	2	72%	P	45-135	22-124
6)	Nitrobenzene	0.35	ppm	0.5	70%	P	50-120	50-150
7)	Naphthalene	0.38	ppm	0.5	75%	P	50-120	33-121
8)	2-Methylnaphthalene	0.30	ppm	0.5	60%	P	50-120	42-130
9)	1-Methylnaphthalene	0.31	ppm	0.5	62%	F ↓	62-102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.34	ppm	2	67%	P	45-135	27-114
12)	Acenaphthylene	0.46	ppm	0.5	92%	P	50-120	51-115
13)	Dimethyl phthalate	0.44	ppm	0.5	87%	P	50-120	50-150
14)	Acenaphthene	0.44	ppm	0.5	88%	P	50-120	44-112
15)	Dibenzofuran	0.43	ppm	0.5	86%	P	50-150	50-150
16)	Fluorene	0.52	ppm	0.5	104%	P	50-120	38-121
17)	Diethylphthalate	0.42	ppm	0.5	85%	P	50-120	50-150
19)	Hexachlorobenzene	0.33	ppm	0.5	67%	P	50-120	47-108
20)	Phenanthrene	0.40	ppm	0.5	80%	P	50-120	54-114
21)	Anthracene	0.37	ppm	0.5	75%	P	50-120	51-119
22)	Carbazole	0.47	ppm	0.5	95%	P	40-150	40-150
23)	Octachlorostyrene	0.37	ppm	0.5	74%	P	50-120	50-150
24)	Di-n-butylphthalate	0.64	ppm	0.5	127%	F ↑	50-120	50-150
25)	Fluoranthene	0.41	ppm	0.5	81%	P	50-120	59-117
27)	Pyrene	0.43	ppm	0.5	85%	P	50-120	55-115
28)	SURR6,TERPHENYL-D14	1.87	ppm	2	93%	P	45-135	23-139
29)	Butylbenzylphthalate	0.48	ppm	0.5	95%	P	50-120	50-150
30)	bis(2-Ethylhexyl)phthalate	4.74	ppm	5	95%	P	50-120	55-130
31)	Benzo(a)anthracene	0.41	ppm	0.5	82%	P	50-120	58-115
32)	Chrysene	0.39	ppm	0.5	77%	P	50-120	55-113
34)	Di-n-octylphthalate	0.67	ppm	0.5	133%	F ↑	50-120	50-150
35)	Benzo(b)Fluoranthene	0.38	ppm	0.5	76%	P	50-120	45-121
36)	Benzo(k)fluoranthene	0.38	ppm	0.5	76%	P	50-120	47-119
37)	Benzo(a)pyrene	0.34	ppm	0.5	68%	P	50-120	36-119
38)	Indeno(1,2,3-cd)Pyrene	0.49	ppm	0.5	98%	P	50-120	47-119
39)	Dibenz(a,h)anthracene	0.52	ppm	0.5	105%	P	50-120	47-116
40)	Benzo(g,h,i)perylene	0.43	ppm	0.5	85%	P	50-120	39-122

SEMIVOLATILE METHOD BLANK SUMMARY

SBLK1

Lab Name: CAS-ROCH Contract: ENSR

Lab Code: 10145 Case No.: R844538 SAS No.: _____ SDG No.: PB061608B

Lab File ID: AR942.D Lab Sample ID: 1113573 1.0

Instrument ID: 5973-C Date Extracted: 6/23/08

Matrix: (soil/water) WATER Date Analyzed: 6/27/08

Level: (low/med) LOW Time Analyzed: 1:32

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK1MS	1113574 1.0	AR990.D	6/30/08
02	SBLK1MSD	1113575 1.0	AR991.D	6/30/08
03	PC-40B	1110532 0.96	AR993.D	6/30/08
04	PB061608B	1109708 0.94	AR992.D	6/30/08
05	H-48B	1110981 0.94	AR994.D	6/30/08

COMMENTS:

SEMIVOLATILE METHOD BLANK SUMMARY

SBLK2

Lab Name: CAS-ROCH Contract: ENSR

Lab Code: 10145 Case No.: R844538 SAS No.: _____ SDG No.: PB0616088

Lab File ID: AR995.D Lab Sample ID: 1113598 1.0

Instrument ID: 5973-C Date Extracted: 6/26/08

Matrix: (soil/water) WATER Date Analyzed: 6/30/08

Level: (low/med) LOW Time Analyzed: 16:57

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK2MS	1113599 1.0	AR996.D	6/30/08
02	SBLK2MSD	1113600 1.0	AR997.D	6/30/08
03	MC-66BD	1111264 0.95	AR998.D	6/30/08
04	MC-65B	1111265 0.96	AR999.D	6/30/08
05	MC-66B	1111266 0.94	AS001.D	6/30/08
06	PC-37B	1111267 0.95	AS002.D	6/30/08
07	MC-66BD RE	1111264 0.95	AS012.D	7/1/08
08	MC-66B RE	1111266 0.94	AS013.D	7/1/08
09	PC-72B	1111763 0.94	AS014.D	7/1/08
10	M-94BX	1111764 0.94	AS015.D	7/1/08
11	MC-62B	1111765 0.94	AS016.D	7/1/08
12	M-94BX RE	1111764 0.94	AS027.D	7/1/08

COMMENTS:

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844538 SAS No.: _____ SDG No.: PB061608B
 Lab File ID: AR926.D DFTPP Injection Date: 6/26/08
 Instrument ID: 5973-C DFTPP Injection Time: 16:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.1
68	Less than 2.0% of mass 69	0.6 (0.9)1
69	Mass 69 Relative abundance	71.7
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	52.3
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	7.2
275	10.0 - 30.0% of mass 198	26.4
365	Greater than 1.0% of mass 198	4.1
441	Present, but less than mass 443	13.4
442	40.0 - 100.0% of mass 198	88.4
443	17.0 - 23.0% of mass 442	17.2 (19.5)2

1-Value is % mass 69

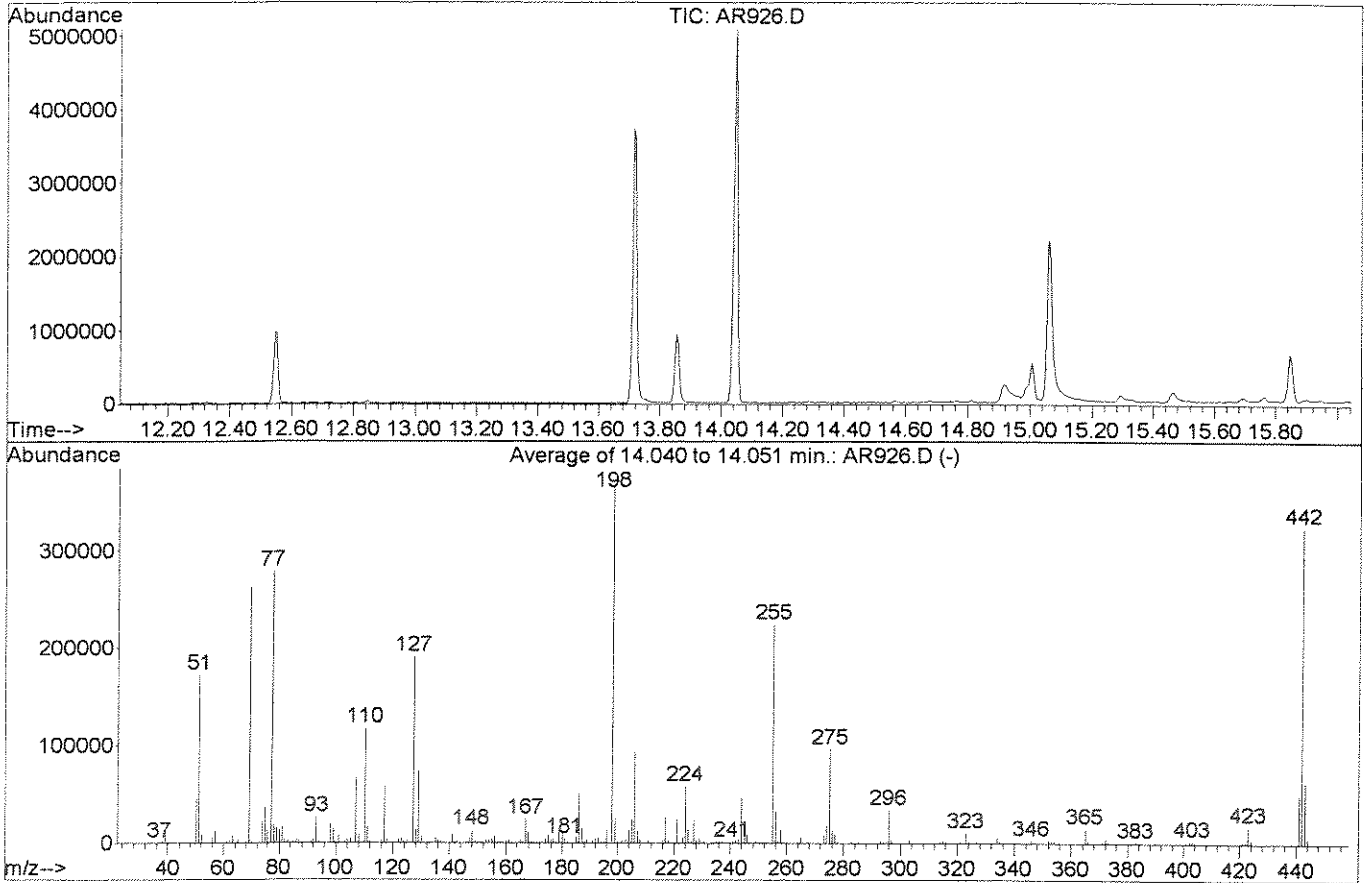
2-Value is % mass 442

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	SSTD001	INITIAL CALIBRATION	AR928.D	6/26/08	17:31
02	SSTD002	INITIAL CALIBRATION	AR929.D	6/26/08	18:06
03	SSTD005	INITIAL CALIBRATION	AR930.D	6/26/08	18:40
04	SSTD010	INITIAL CALIBRATION	AR931.D	6/26/08	19:15
05	SSTD020	INITIAL CALIBRATION	AR932.D	6/26/08	19:50
06	SSTD030	INITIAL CALIBRATION	AR933.D	6/26/08	20:25
07	SSTD040	INITIAL CALIBRATION	AR934.D	6/26/08	21:00
08	SSTD050	INITIAL CALIBRATION	AR935.D	6/26/08	21:35
09	SSTD100	INITIAL CALIBRATION	AR936.D	6/26/08	22:10

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\062608\AR926.D Vial: 1
 Acq On : 26 Jun 2008 4:24 pm Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK



AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1296

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.1	172809	PASS
68	69	0.00	2	0.9	2305	PASS
69	198	0.00	100	71.7	263018	PASS
70	69	0.00	2	0.3	769	PASS
127	198	40	60	52.3	191842	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	366784	PASS
199	198	5	9	7.2	26242	PASS
275	198	10	30	26.4	96925	PASS
365	198	1	100	4.1	15178	PASS
441	443	0.01	100	77.8	49080	PASS
442	198	40	100	88.4	324160	PASS
443	442	17	23	19.5	63072	PASS

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844538 SAS No.: _____ SDG No.: PB061608
 Lab File ID: AR939.D DFTPP Injection Date: 6/26/08
 Instrument ID: 5973-C DFTPP Injection Time: 23:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.3
68	Less than 2.0% of mass 69	1.0 (1.5)1
69	Mass 69 Relative abundance	68.1
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	51.8
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	7.1
275	10.0 - 30.0% of mass 198	26.6
365	Greater than 1.0% of mass 198	5.1
441	Present, but less than mass 443	14.9
442	40.0 - 100.0% of mass 198	95.1
443	17.0 - 23.0% of mass 442	18.6 (19.6)2

1-Value is % mass 69

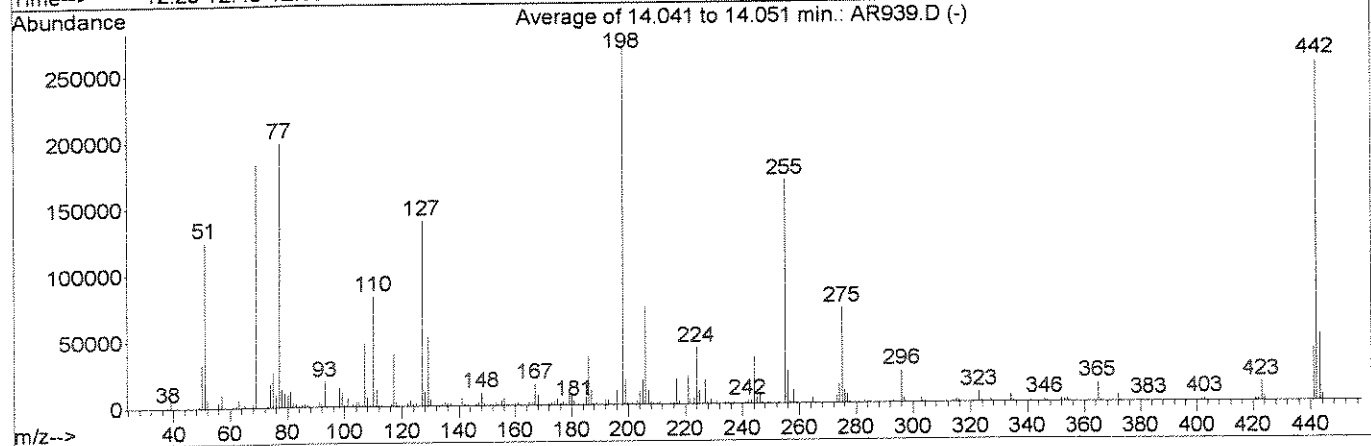
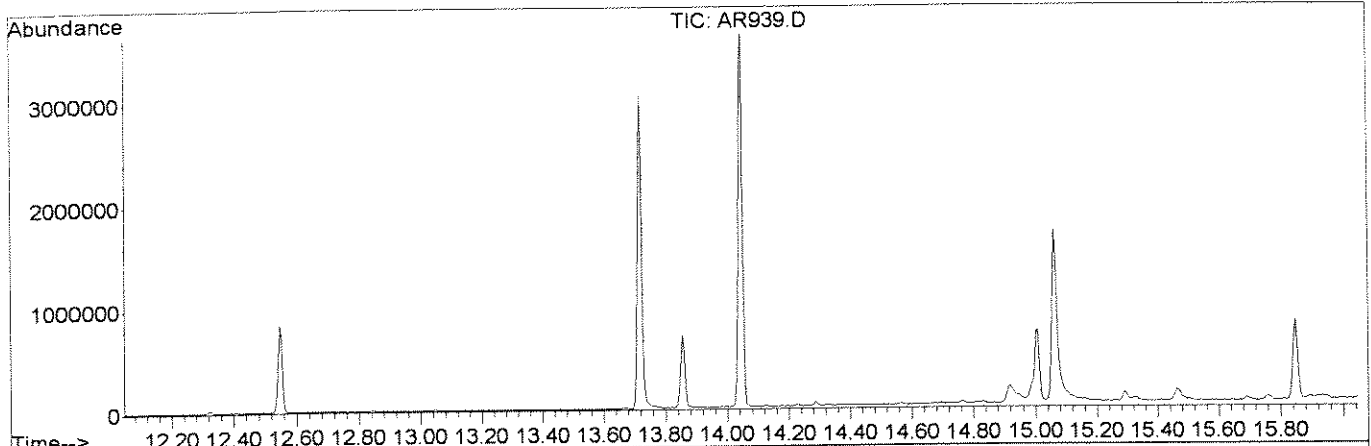
2-Value is % mass 442

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	SSTD120	CALIBRATION CHECK	AR940.D	6/27/08	0:23
02	SBLK1	1113573 1.0	AR942.D	6/27/08	1:32

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\062608\AR939.D Vial: 13
 Acq On : 26 Jun 2008 11:53 pm Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK



AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1296

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.3	124675	PASS
68	69	0.00	2	1.5	2730	PASS
69	198	0.00	100	68.1	183589	PASS
70	69	0.00	2	0.4	819	PASS
127	198	40	60	51.8	139498	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	269525	PASS
199	198	5	9	7.1	19025	PASS
275	198	10	30	26.6	71586	PASS
365	198	1	100	5.1	13765	PASS
441	443	0.01	100	79.9	40157	PASS
442	198	40	100	95.1	256213	PASS
443	442	17	23	19.6	50264	PASS

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844538 SAS No.: _____ SDG No.: PB061608B
 Lab File ID: AR981.D DFTPP Injection Date: 6/30/08
 Instrument ID: 5973-C DFTPP Injection Time: 8:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.5
68	Less than 2.0% of mass 69	0.3 (0.4)1
69	Mass 69 Relative abundance	69.3
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	53.5
197	Less than 1.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	26.6
365	Greater than 1.0% of mass 198	4.3
441	Present, but less than mass 443	13.0
442	40.0 - 100.0% of mass 198	86.3
443	17.0 - 23.0% of mass 442	16.7 (19.4)2

1-Value is % mass 69

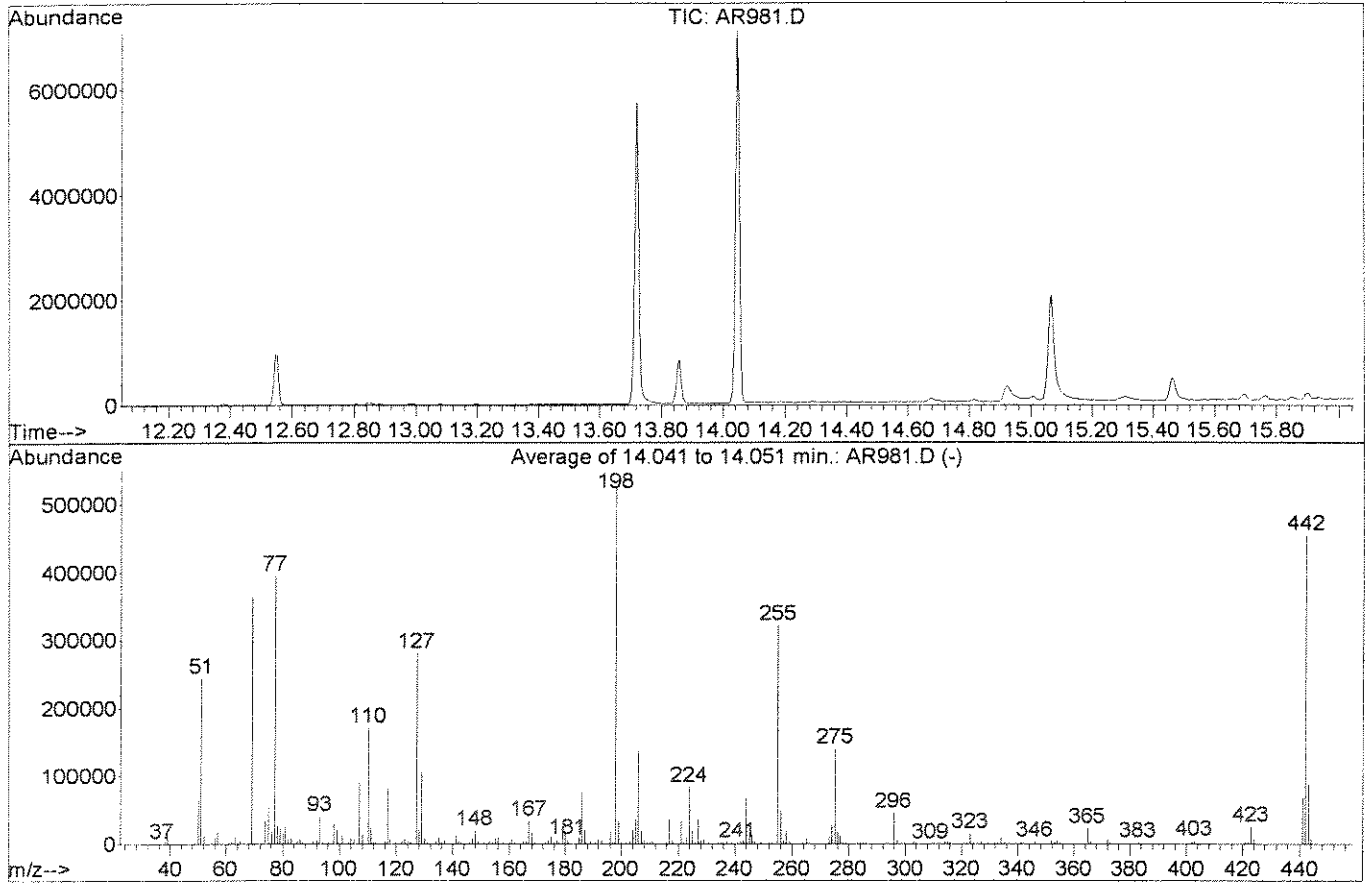
2-Value is % mass 442

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	SSTD220	CALIBRATION CHECK	AR982.D	6/30/08	9:20
02	SBLK1MS	1113574 1.0	AR990.D	6/30/08	14:02
03	SBLK1MSD	1113575 1.0	AR991.D	6/30/08	14:37
04	PC-40B	1110532 0.96	AR993.D	6/30/08	15:12
05	PB061608B	1109708 0.94	AR992.D	6/30/08	15:47
06	H-48B	1110981 0.94	AR994.D	6/30/08	16:22
07	SBLK2	1113598 1.0	AR995.D	6/30/08	16:57
08	SBLK2MS	1113599 1.0	AR996.D	6/30/08	17:32
09	SBLK2MSD	1113600 1.0	AR997.D	6/30/08	18:07
10	MC-66BD	1111264 0.95	AR998.D	6/30/08	18:42
11	MC-65B	1111265 0.96	AR999.D	6/30/08	19:16
12	MC-66B	1111266 0.94	AS001.D	6/30/08	19:51
13	PC-37B	1111267 0.95	AS002.D	6/30/08	20:25

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\063008\AR981.D Vial: 1
 Acq On : 30 Jun 2008 8:51 am Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK



AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
51	198	30	60	46.5	245022	PASS
68	69	0.00	2	0.4	1595	PASS
69	198	0.00	100	69.3	364979	PASS
70	69	0.00	2	0.5	1966	PASS
127	198	40	60	53.5	281642	PASS
197	198	0.00	1	0.7	3798	PASS
198	198	100	100	100.0	526634	PASS
199	198	5	9	6.5	34122	PASS
275	198	10	30	26.6	140125	PASS
365	198	1	100	4.3	22736	PASS
441	443	0.01	100	77.7	68509	PASS
442	198	40	100	86.3	454506	PASS
443	442	17	23	19.4	88208	PASS

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844538 SAS No.: _____ SDG No.: PB061608B
 Lab File ID: AS010.D DFTPP Injection Date: 7/1/08
 Instrument ID: 5973-C DFTPP Injection Time: 12:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	65.6
70	Less than 2.0% of mass 69	0.4 (0.6)1
127	40.0 - 60.0% of mass 198	51.7
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	6.7
275	10.0 - 30.0% of mass 198	26.8
365	Greater than 1.0% of mass 198	4.6
441	Present, but less than mass 443	14.3
442	40.0 - 100.0% of mass 198	97.0
443	17.0 - 23.0% of mass 442	19.4 (20.0)2

1-Value is % mass 69

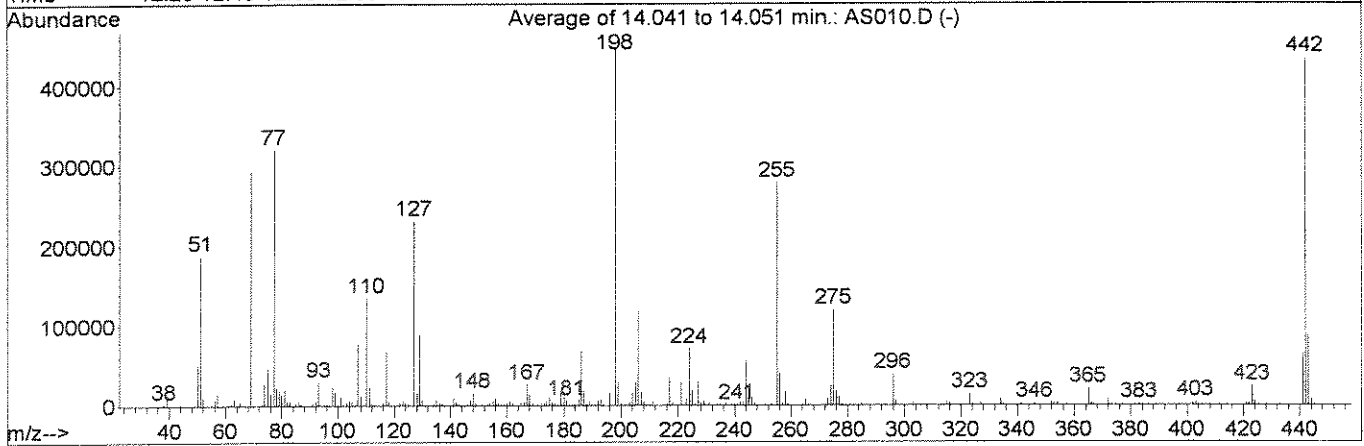
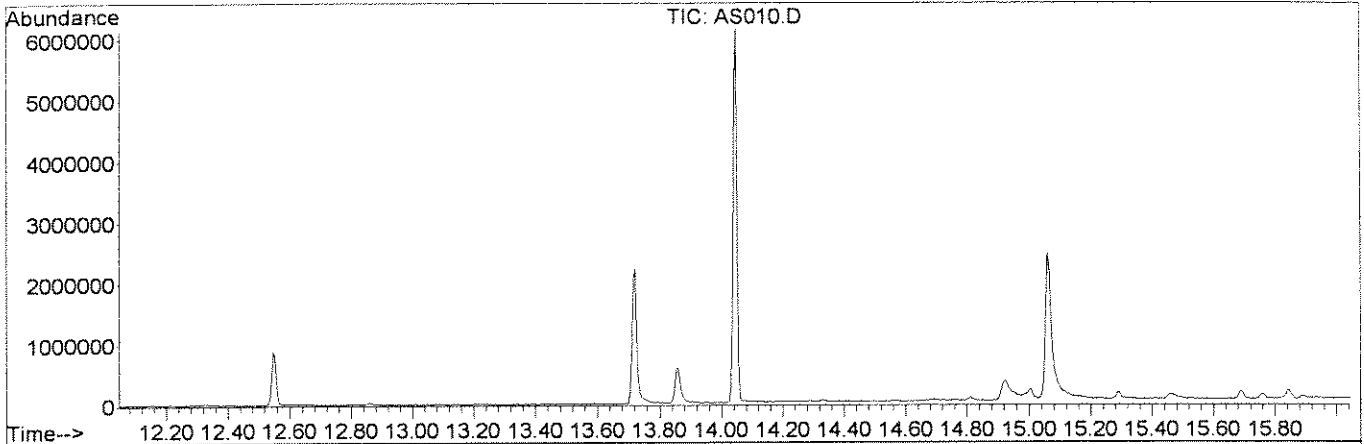
2-Value is % mass 442

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	SSTD320	CALIBRATION CHECK	AS011.D	7/1/08	12:57
02	MC-66BD RE	1111264 0.95	AS012.D	7/1/08	13:32
03	MC-66B RE	1111266 0.94	AS013.D	7/1/08	14:07
04	PC-72B	1111763 0.94	AS014.D	7/1/08	14:42
05	M-94BX	1111764 0.94	AS015.D	7/1/08	15:17
06	MC-62B	1111765 0.94	AS016.D	7/1/08	15:52
07	M-94BX RE	1111764 0.94	AS027.D	7/1/08	22:15

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\070108\AS010.D Vial: 1
 Acq On : 1 Jul 2008 12:22 pm Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK



AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.1	188713	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	65.6	294035	PASS
70	69	0.00	2	0.6	1668	PASS
127	198	40	60	51.7	231658	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	447914	PASS
199	198	5	9	6.7	30137	PASS
275	198	10	30	26.8	119984	PASS
365	198	1	100	4.6	20613	PASS
441	443	0.01	100	73.8	64168	PASS
442	198	40	100	97.0	434410	PASS
443	442	17	23	20.0	86928	PASS

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844538 SAS No.: _____ SDG No.: PB0616086
 Lab File ID (Standard): AR940.D Date Analyzed: 6/27/08
 Instrument ID: 5973-C Time Analyzed: 0:23

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	85042	10.68	330411	11.95	131431	13.55
UPPER LIMIT	170084	11.18	660822	12.45	262862	14.05
LOWER LIMIT	42521	10.18	165206	11.45	65716	13.05
EPA SAMPLE NO.						
01 SBLK1	86449	10.68	331802	11.95	135013	13.55

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

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844538 SAS No.: _____ SDG No.: PB061608
 Lab File ID (Standard): AR940.D Date Analyzed: 06/27/08
 Instrument ID: 5973-C Time Analyzed: 00:23

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	332218	14.74	314728	17.82	238408	21.31
UPPER LIMIT	664436	14.24	629456	17.32	476816	20.81
LOWER LIMIT	166109	15.24	157364	18.32	119204	21.81
EPA SAMPLE NO.						
01 SBLK1	338892	14.74	305305	17.81	210974	21.31

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

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844538 SAS No.: SDG No.: PB061608B
 Lab File ID (Standard): AR982.D Date Analyzed: 6/30/08
 Instrument ID: 5973-C Time Analyzed: 9:20

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	102949	10.68	397895	11.95	196935	13.55
UPPER LIMIT	205898	11.18	795790	12.45	393870	14.05
LOWER LIMIT	51475	10.18	198948	11.45	98468	13.05
EPA SAMPLE NO.						
01 SBLK1MS	102809	10.67	401380	11.95	195786	13.55
02 SBLK1MSD	97237	10.68	375304	11.95	180656	13.55
03 PC-40B	145728	10.68	368052	11.95	177524	13.55
04 PB061608B	90010	10.68	339257	11.95	157005	13.55
05 H-48B	92483	10.67	332596	11.95	170017	13.55
06 SBLK2	83863	10.68	325505	11.95	155906	13.55
07 SBLK2MS	96125	10.68	339892	11.95	161695	13.55
08 SBLK2MSD	97193	10.67	352531	11.95	165186	13.55
09 MC-66BD	102323	10.68	347154	11.95	164383	13.55
10 MC-65B	88387	10.68	339131	11.95	157868	13.55
11 MC-66B	92346	10.68	335010	11.95	150781	13.55
12 PC-37B	90583	10.68	326067	11.95	152517	13.55

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.: R844538 SAS No.: _____ SDG No.: PB0616080
 Lab File ID (Standard): AR982.D Date Analyzed: 06/30/08
 Instrument ID: 5973-C Time Analyzed: 09:20

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	405436	14.74	387612	17.82	307668	21.31
UPPER LIMIT	810872	14.24	775224	17.32	615336	20.81
LOWER LIMIT	202718	15.24	193806	18.32	153834	21.81
EPA SAMPLE NO.						
01 SBLK1MS	408740	14.74	372783	17.81	303466	21.31
02 SBLK1MSD	378401	14.74	352657	17.81	277471	21.30
03 PC-40B	419403	14.74	378967	17.82	247931	21.30
04 PB061608B	381067	14.74	329511	17.81	264649	21.31
05 H-48B	384743	14.74	334046	17.82	292167	21.32
06 SBLK2	369590	14.74	328462	17.82	257317	21.30
07 SBLK2MS	378235	14.74	334131	17.81	268817	21.31
08 SBLK2MSD	403785	14.74	347066	17.81	280967	21.31
09 MC-66BD	420552	14.74	345595	17.81	0*	.00
10 MC-65B	410478	14.74	329560	17.81	183311	21.30
11 MC-66B	375217	14.74	302925	17.81	15000 *	21.31
12 PC-37B	378319	14.74	315100	17.81	230639	21.31

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

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R844538 SAS No.: _____ SDG No.: PB061608B
 Lab File ID (Standard): AS011.D Date Analyzed: 7/1/08
 Instrument ID: 5973-C Time Analyzed: 12:57

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	102393	10.68	382043	11.95	187316	13.55
UPPER LIMIT	204786	11.18	764086	12.45	374632	14.05
LOWER LIMIT	51197	10.18	191022	11.45	93658	13.05
EPA SAMPLE NO.						
01 MC-66BD RE	108864	10.68	364126	11.95	170122	13.55
02 MC-66B RE	100108	10.68	347869	11.95	165879	13.55
03 PC-72B	94606	10.68	345162	11.95	172016	13.55
04 M-94BX	88220	10.68	321700	11.95	151586	13.55
05 MC-62B	118386	10.68	312474	11.95	162192	13.55
06 M-94BX RE	95339	10.68	344073	11.95	108102	13.55

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.: R844538 SAS No.: _____ SDG No.: PB061608 B
 Lab File ID (Standard): AS011.D Date Analyzed: 07/01/08
 Instrument ID: 5973-C Time Analyzed: 12:57

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	399750	14.74	377093	17.81	283525	21.31
UPPER LIMIT	799500	14.24	754186	17.31	567050	20.81
LOWER LIMIT	199875	15.24	188547	18.31	141763	21.81
EPA SAMPLE NO.						
01 MC-66BD RE	430737	14.74	358814	17.81	0*	0.00
02 MC-66B RE	387749	14.74	332625	17.81	0*	0.00
03 PC-72B	398264	14.74	364550	17.81	271619	21.31
04 M-94BX	378869	14.74	317507	17.81	0*	0.00
05 MC-62B	365547	14.74	323372	17.81	251198	21.30
06 M-94BX RE	382685	14.74	313672	17.81	0*	0.00

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

Columbia Analytical Services
8270.LL MDL STUDY 5973-C
Analyst: Jingmin Wu

Method: 8270.LL WATER

Extracted : 06/10/2008, 06/23/2008

#	Name	Conc. ug/l	Trial #1	Trial #2	Trial #3	Trial #4	Trial #5	Trial #6	Trial #7	Mean ug/l	S	N# f Ref	MDL ug/L	MRL ug/L
2)	1,4-Dioxane	0.8	0.36	0.31	0.40	0.34	0.45	0.39	0.39	0.37714	0.04536	7	0.1425531	0.2
3)	Pyridine	2	0.16	0.44	0.65	0.46	0.24	0.68	0.20	0.40429	0.21181	7	0.6657072	2
6)	Nitrobenzene	0.20	0.17	0.16	0.18	0.16	0.17	0.16	0.18	0.16857	0.009	7	0.0282787	0.2
7)	Naphthalene	0.20	0.17	0.17	0.19	0.17	0.20	0.18	0.20	0.18286	0.0138	7	0.0433775	0.2
8)	2-Methylnaphthalene	0.20	0.15	0.14	0.16	0.14	0.16	0.16	0.17	0.15429	0.01134	7	0.0356383	0.1
9)	1-Methylnaphthalene	0.20	0.14	0.14	0.15	0.14	0.15	0.14	0.15	0.14429	0.00535	7	0.0168	0.2
12)	Acenaphthylene	0.20	0.14	0.15	0.16	0.15	0.15	0.15	0.16	0.15143	0.0069	7	0.0216888	0.2
13)	Dimethyl phthalate	0.20	0.18	0.17	0.20	0.18	0.17	0.20	0.19	0.18429	0.01272	7	0.0399921	5
14)	Acenaphthene	0.20	0.16	0.14	0.17	0.16	0.17	0.17	0.16	0.16143	0.01069	7	0.0336001	0.2
15)	Dibenzofuran	0.20	0.16	0.15	0.16	0.16	0.15	0.20	0.16	0.16286	0.01704	7	0.0535673	0.2
16)	Fluorene	0.20	0.17	0.15	0.17	0.15	0.16	0.17	0.17	0.16286	0.00951	7	0.0298959	0.2
17)	Diethylphthalate	0.20	0.36	0.38	0.32	0.34	0.33	0.39	0.44	0.36571	0.04158	7	0.1306737	5
19)	Hexachlorobenzene	0.20	0.13	0.13	0.13	0.13	0.14	0.13	0.14	0.13286	0.00488	7	0.0153363	0.2
20)	Phenanthrene	0.20	0.18	0.18	0.18	0.17	0.19	0.19	0.19	0.18286	0.00756	7	0.0237588	0.2
21)	Anthracene	0.20	0.14	0.13	0.14	0.12	0.14	0.14	0.13	0.13429	0.00787	7	0.024729	0.2
22)	Carbazole	0.20	0.20	0.18	0.21	0.18	0.21	0.21	0.22	0.20143	0.01574	7	0.049458	1
23)	Octachlorostyrene	0.20	0.10	0.13	0.13	0.10	0.10	0.12	0.16	0.12	0.02236	7	0.0702796	0.2
24)	Di-n-butylphthalate	0.20	1.54	2.33	1.12	1.33	1.35	1.85	1.90	1.63143	0.41791	7	1.3134868	5
25)	Fluoranthene	0.20	0.18	0.17	0.19	0.17	0.19	0.19	0.20	0.18429	0.01134	7	0.0356383	0.2
27)	Pyrene	0.20	0.17	0.17	0.18	0.16	0.18	0.19	0.19	0.17714	0.01113	7	0.0349721	0.2
29)	Butylbenzylphthalate	0.20	0.31	0.48	0.30	0.31	0.30	0.41	0.38	0.35571	0.06997	7	0.2199031	5
30)	bis(2-Ethylhexyl)phthalate	0.80	0.79	0.90	0.84	0.76	0.76	0.94	0.87	0.83714	0.07041	7	0.2212891	2
31)	Benzo(a)anthracene	0.20	0.16	0.16	0.18	0.16	0.17	0.18	0.18	0.17	0.01	7	0.03143	0.1
32)	Chrysene	0.20	0.17	0.16	0.18	0.16	0.17	0.18	0.18	0.17143	0.009	7	0.0282787	0.2
34)	Di-n-octylphthalate	0.20	0.31	0.31	0.32	0.31	0.31	0.34	0.34	0.32	0.01414	7	0.0444487	5
35)	Benzo(b)fluoranthene	0.20	0.18	0.17	0.19	0.18	0.20	0.19	0.22	0.19	0.01633	7	0.051325	0.2
36)	Benzo(k)fluoranthene	0.20	0.17	0.16	0.19	0.17	0.18	0.19	0.21	0.18143	0.01676	7	0.0526818	0.2
37)	Benzo(a)pyrene	0.20	0.13	0.12	0.13	0.12	0.12	0.14	0.13	0.12714	0.00756	7	0.0237588	0.2
38)	Indeno(1,2,3-cd)Pyrene	0.20	0.17	0.16	0.20	0.18	0.18	0.19	0.22	0.18571	0.01988	7	0.0624847	0.2
39)	Dibenz(a,h)anthracene	0.20	0.17	0.16	0.19	0.18	0.19	0.19	0.21	0.18429	0.01618	7	0.0508647	0.2
40)	Benzo(g,h,i)perylene	0.20	0.17	0.17	0.19	0.18	0.20	0.19	0.22	0.18857	0.01773	7	0.0557194	0.2

SEMIVOLATILE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 08/05/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : PB061608B

Date Sampled : 06/16/08 14:30 **Order #:** 1109708 **Sample Matrix:** WATER
Date Received: 06/17/08 **Submission #:** R2844538 **Analytical Run** 163181

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/23/08		
DATE ANALYZED	: 06/30/08		
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	4.7 U	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	1.9 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	0.21 J	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	0.085 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	10	9.4 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	102	%
NITROBENZENE-d5	(45 - 135 %)	78	%
2-FLUOROBIPHENYL	(45 - 135 %)	72	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\063008\AR992.D
 Acq On : 30 Jun 2008 3:47 pm
 Sample : 1109708 0.94
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 16:14:09 2008

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	90010	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	339257	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	157005	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	381067	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	329511	1.00	ppm	0.00
33) d12-Perylene	21.31	264	264649	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	303878	1.56	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	78.00%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	400232	1.43	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	71.50%
28) SURR6,TERPHENYL-D14	16.25	244	566725	2.03	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	101.50%

Target Compounds

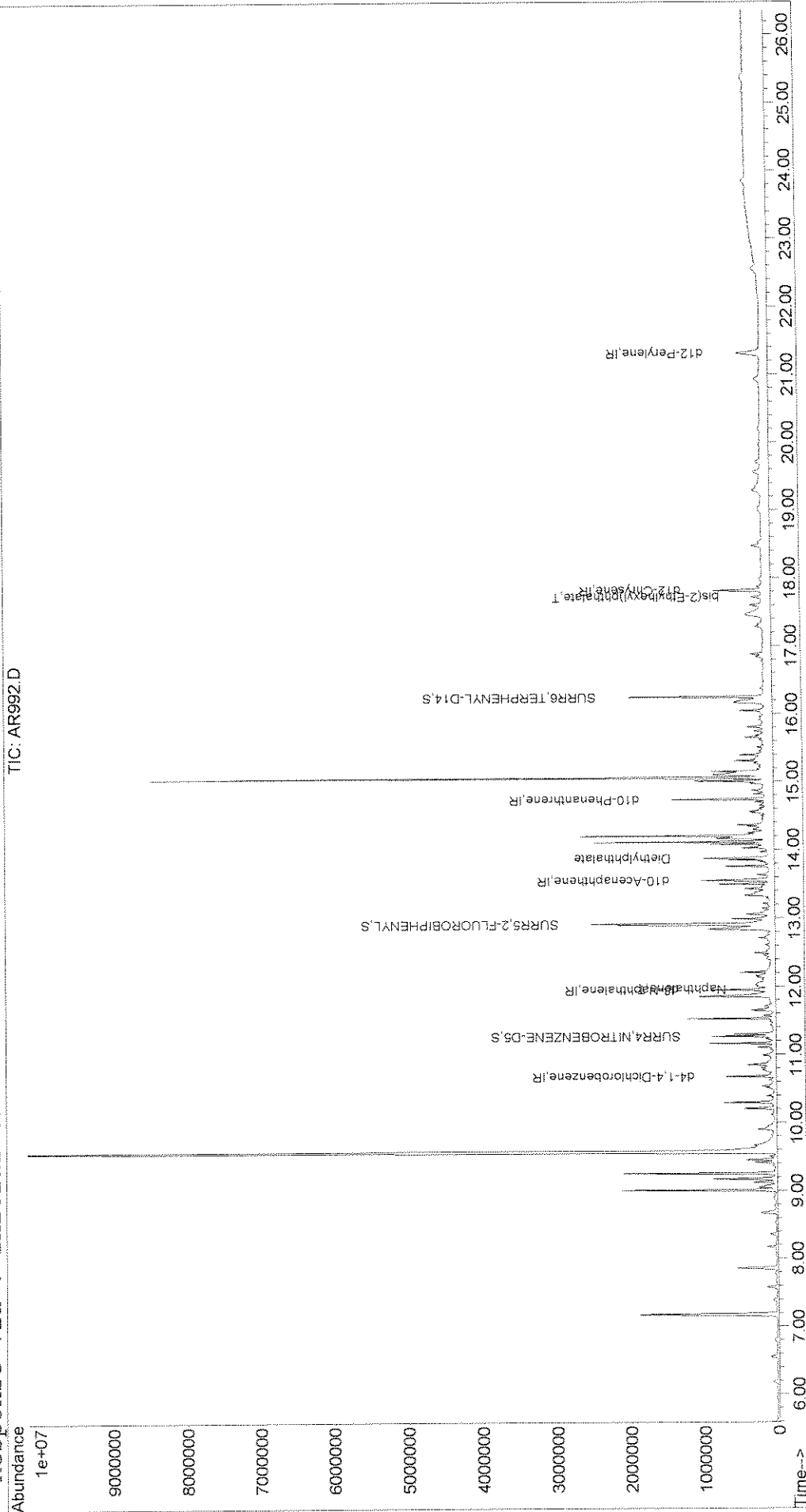
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Naphthalene	11.97	128	29862	0.09	ppm	97
17) Diethylphthalate	13.88	149	57913	0.22	ppm	95
30) bis(2-Ethylhexyl)phthalate	17.72	149	53259m	0.22	ppm	

00381

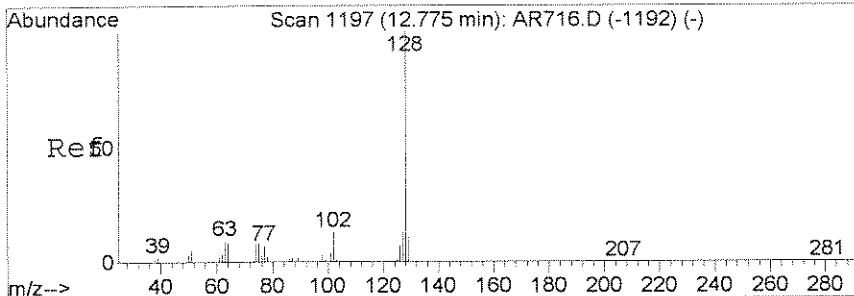
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR992.D
Acq On : 30 Jun 2008 3:47 pm Vial: 11
Sample : 1109708 0.94 Operator: J.Wu
Misc : 06/23/2008 1.0 ENSR 8270.NEVA Inst : 5973C
Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 30 16:51 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 09:31:03 2008
Response via : Initial Calibration

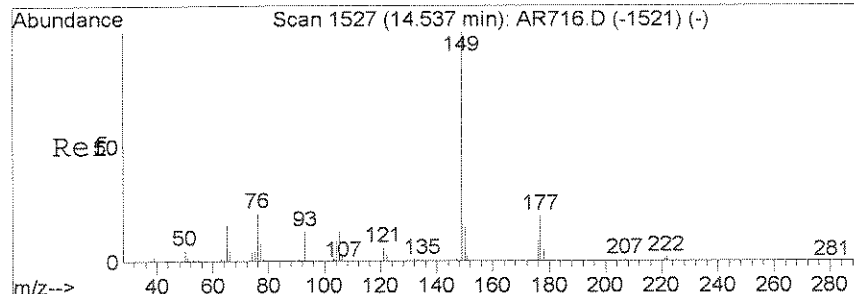
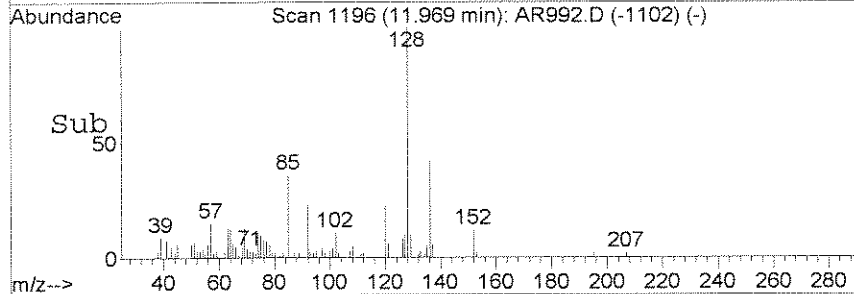
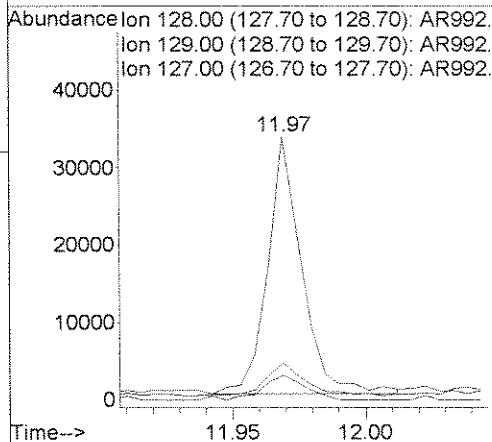
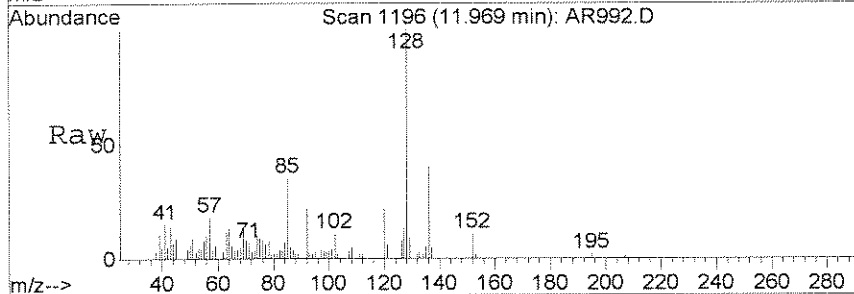


00382



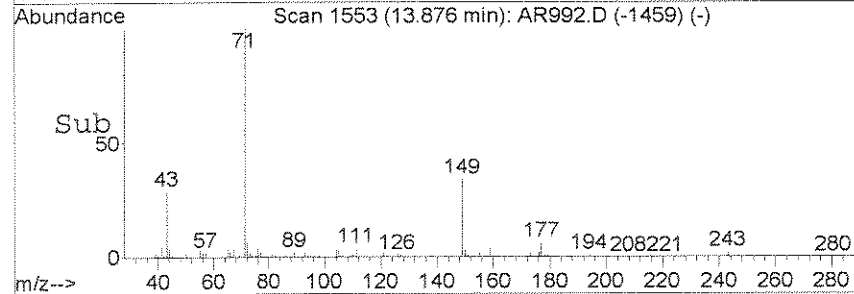
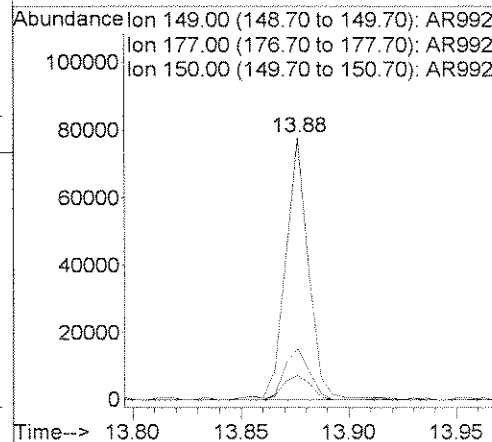
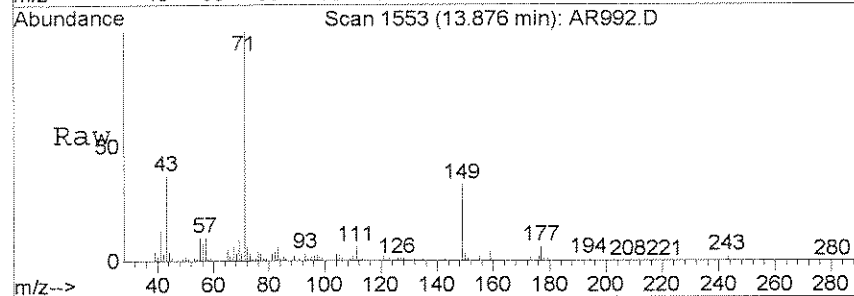
#7
 Naphthalene
 Concen: 0.09 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: AR992.D
 Acq: 30 Jun 2008 3:47 pm

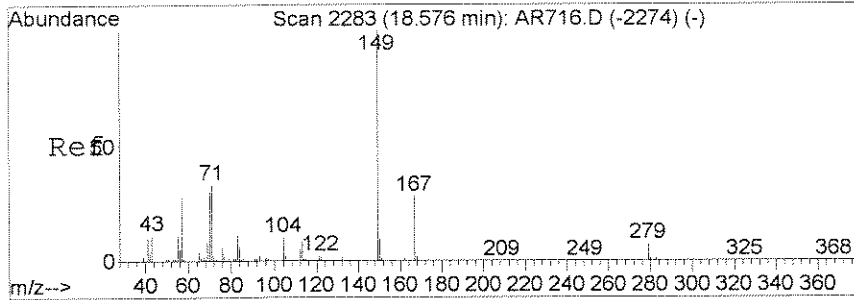
Tgt Ion	Ratio	Lower	Upper
128	100		
129	8.8	0.0	31.0
127	12.4	0.0	32.4



#17
 Diethylphthalate
 Concen: 0.22 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AR992.D
 Acq: 30 Jun 2008 3:47 pm

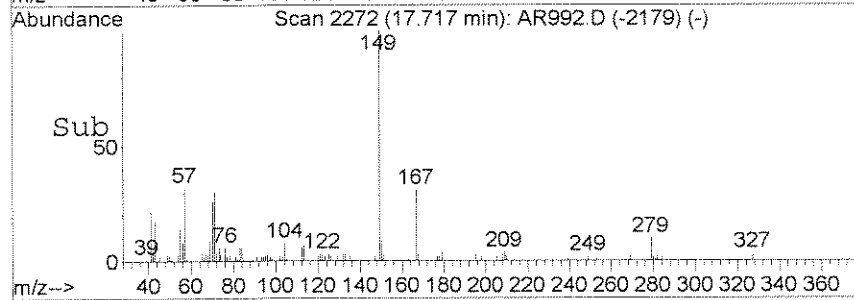
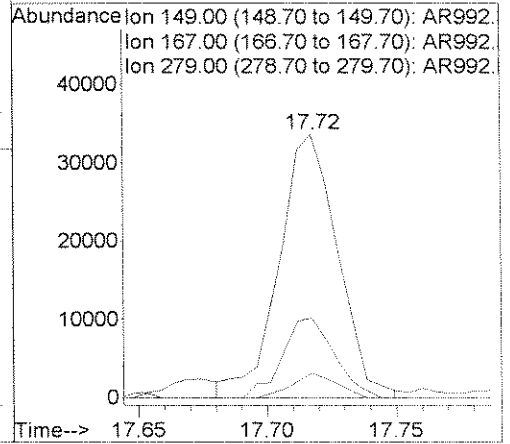
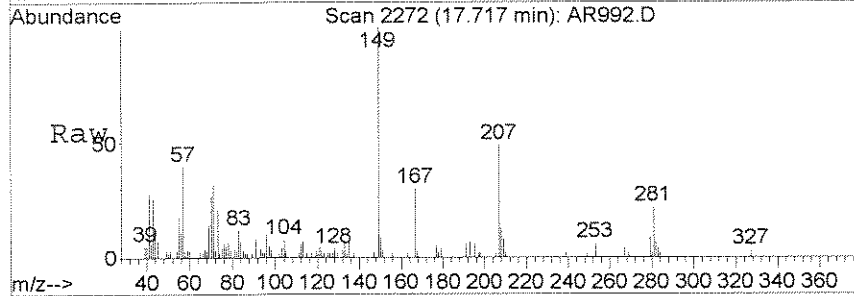
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.6	15.3	28.3
150	9.2	8.3	15.3





#30
 bis(2-Ethylhexyl)phthalate
 Concen: 0.22 ppm
 RT: 17.72 min Scan# 2272
 Delta R.T. -0.01 min
 Lab File: AR992.D
 Acq: 30 Jun 2008 3:47 pm

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	53259		
167	30.3		22.5	33.7
279	9.3		5.5	8.3#



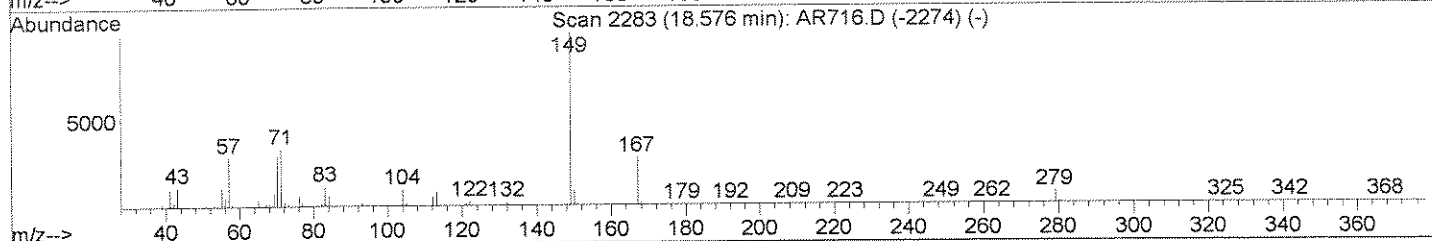
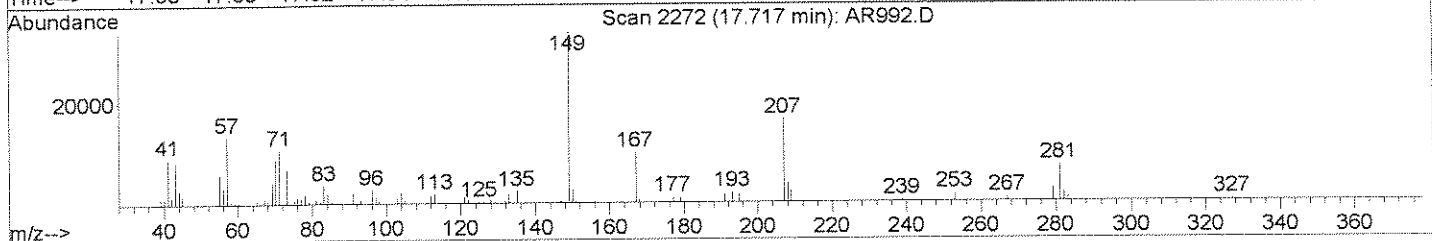
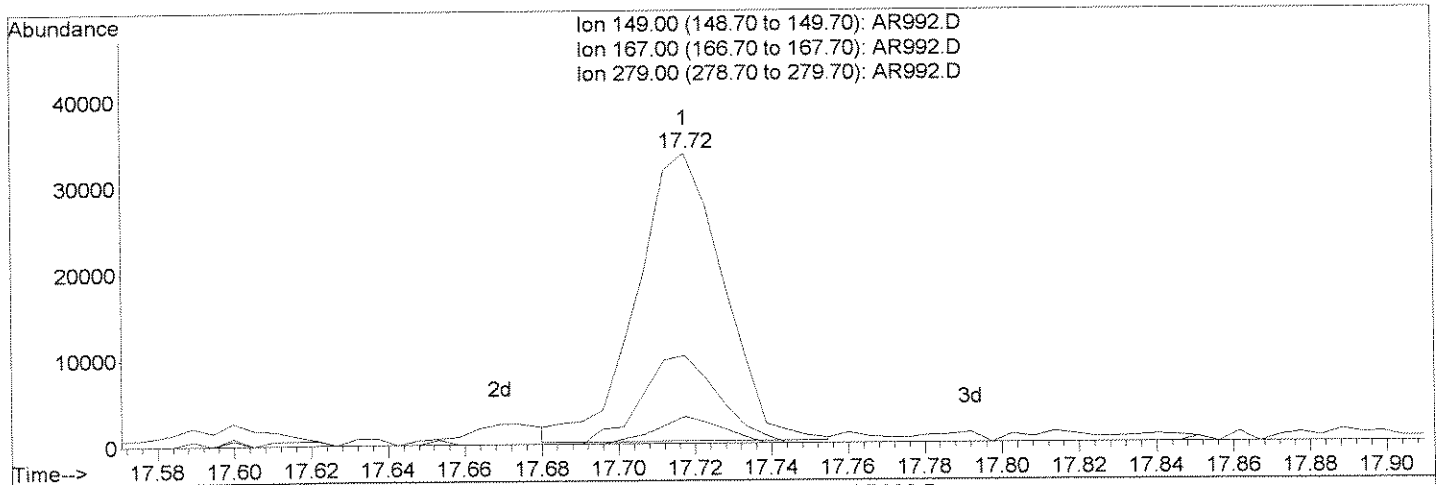
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR992.D
 Acq On : 30 Jun 2008 3:47 pm
 Sample : 1109708 0.94
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 16:50 2008

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Single Level Calibration



(30) bis(2-Ethylhexyl)phthalate (T)

17.72min 0.22ppm

response 52199

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	31.54
279.00	6.90	9.67#
0.00	0.00	0.00

B

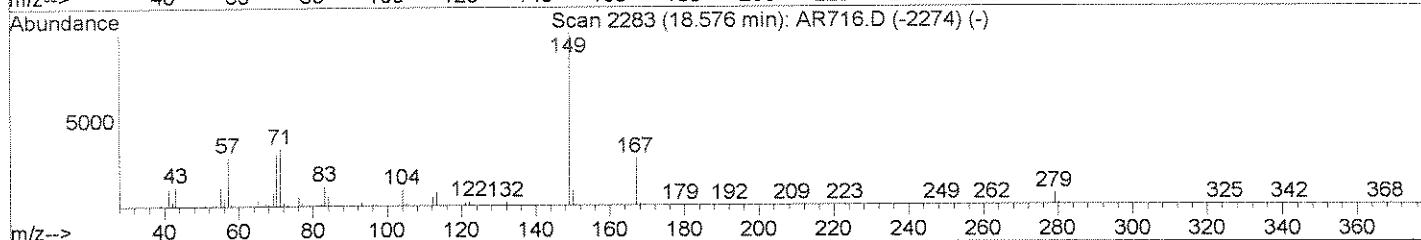
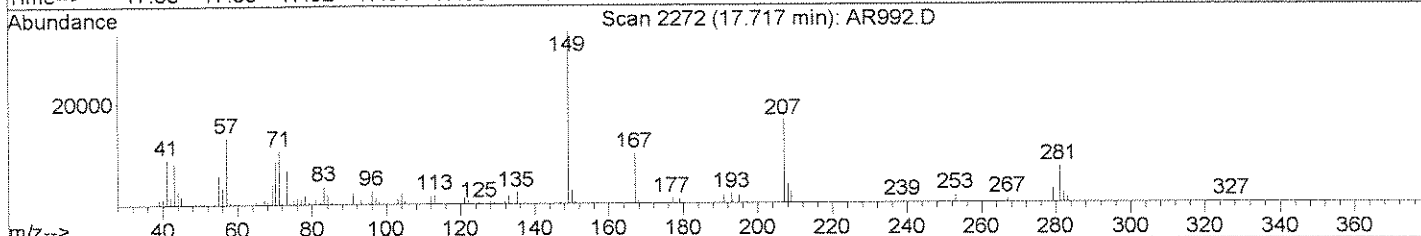
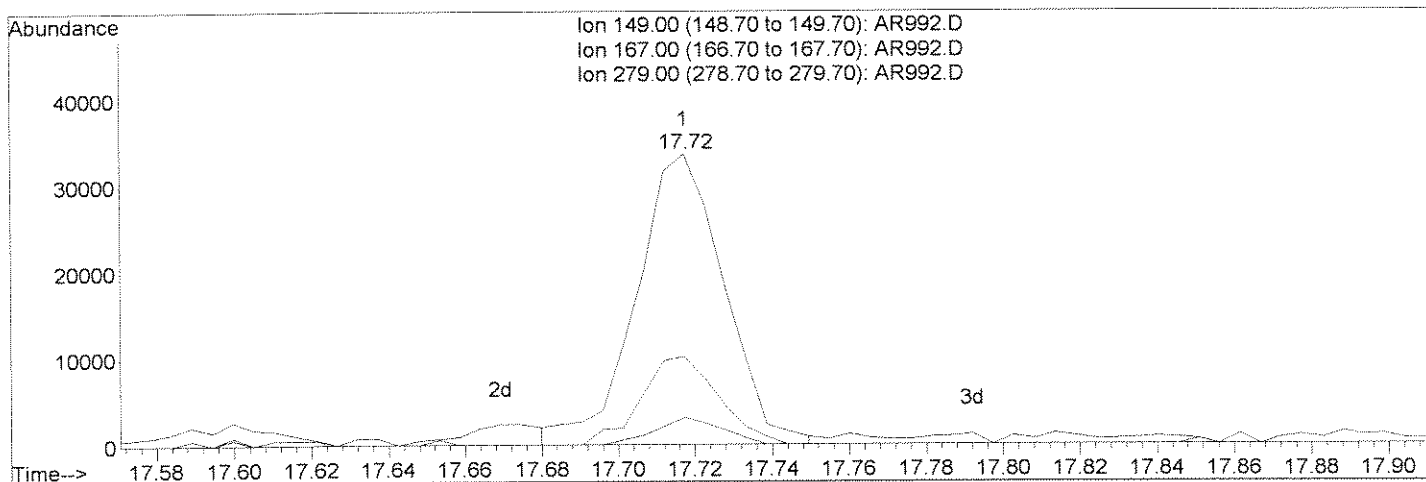
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR992.D
 Acq On : 30 Jun 2008 3:47 pm
 Sample : 1109708 0.94
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 16:51 2008

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Single Level Calibration



TIC: AR992.D

(30) bis(2-Ethylhexyl)phthalate (T)

17.72min 0.22ppm m

response 53259

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	30.30
279.00	6.90	9.29#
0.00	0.00	0.00

A 6/30

MV 1/1

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 08/05/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-40B

Date Sampled : 06/18/08 13:00 Order #: 1110532 Sample Matrix: WATER
 Date Received: 06/19/08 Submission #: R2844538 Analytical Run 163181

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/23/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	0.96		
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	4.8 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.8 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	4.8 U	UG/L
DIMETHYL PHTHALATE	5.0	4.8 U	UG/L
1, 4 - DIOXANE	2.0	0.87 J	UG/L
BIS (2 - ETHYLHEXYL) PHTHALATE	5.0	4.8 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	0.048 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	4.8 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 %)	91	%
NITROBENZENE-d5	(45 - 135 %)	84	%
2-FLUOROBIPHENYL	(45 - 135 %)	67	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\063008\AR993.D Vial: 12
 Acq On : 30 Jun 2008 3:12 pm Operator: J.Wu
 Sample : 1110532 0.96 Inst : 5973C
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 15:39:04 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	145728	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	368052	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	177524	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	419403	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	378967	1.00	ppm	0.00
33) d12-Perylene	21.30	264	247931	1.00	ppm	-0.02

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	351334	1.67	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	83.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	416084	1.33	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	66.50%
28) SURR6,TERPHENYL-D14	16.25	244	582355	1.82	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	91.00%

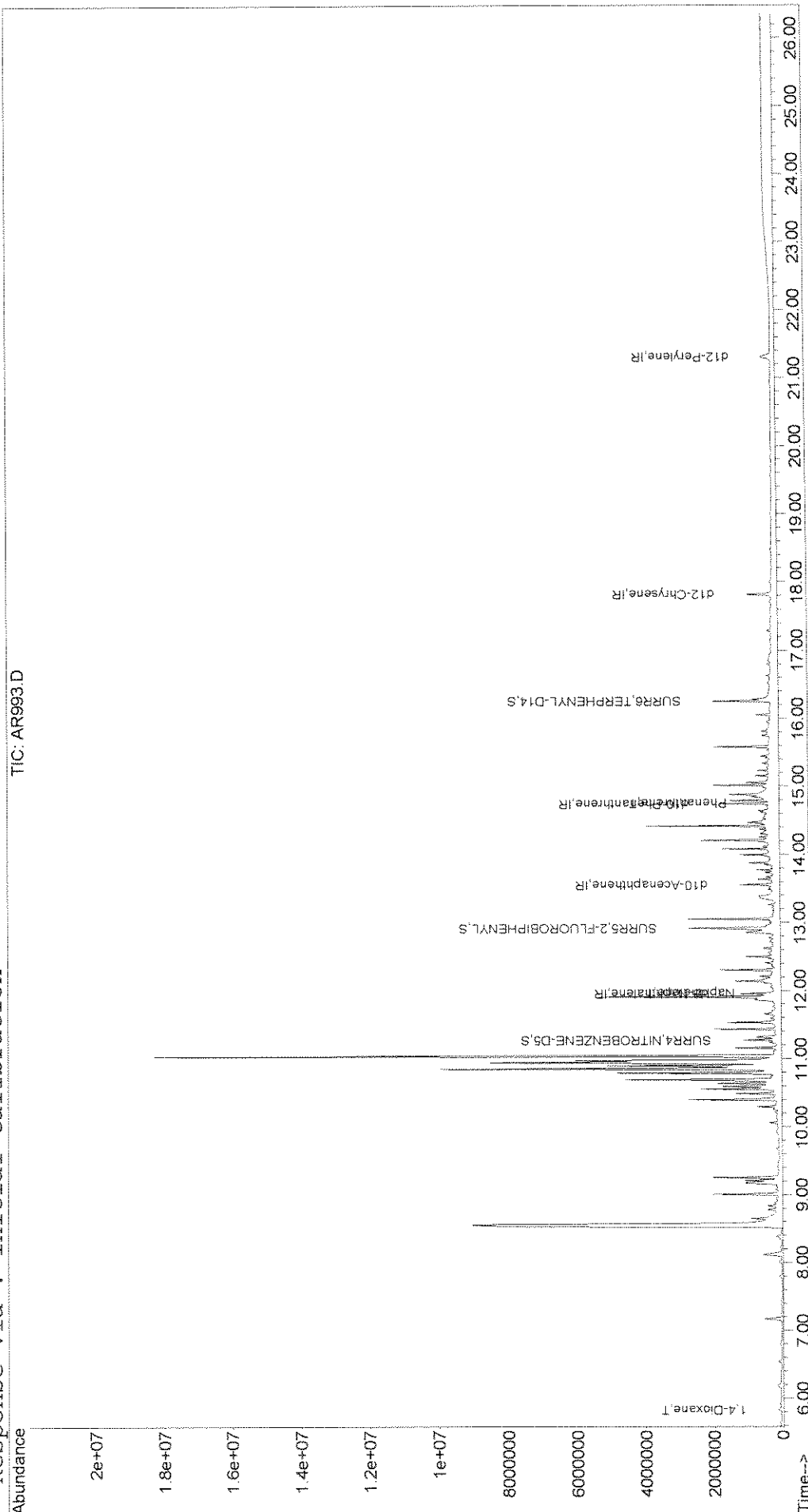
Target Compounds

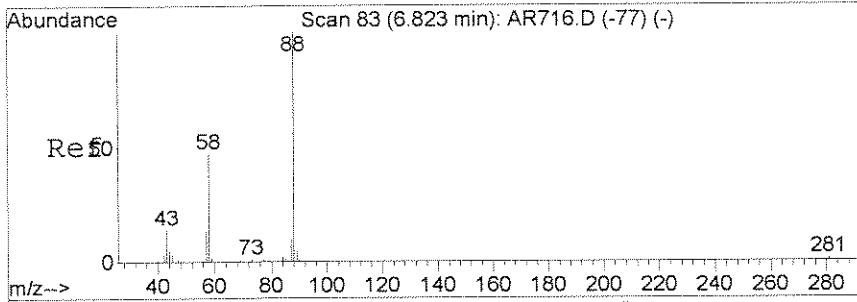
	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.83	88	76261	0.91	ppm	92
7) Naphthalene	11.97	128	18946	0.05	ppm	78
20) Phenanthrene	14.76	178	9050	0.02	ppm	98

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR993.D Vial: 12
 Acq On : 30 Jun 2008 3:12 pm Operator: J.Wu
 Sample : 1110532 0.96 Inst : 5973C
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 17:00 2008 Quant Results File: LVI0626.RES

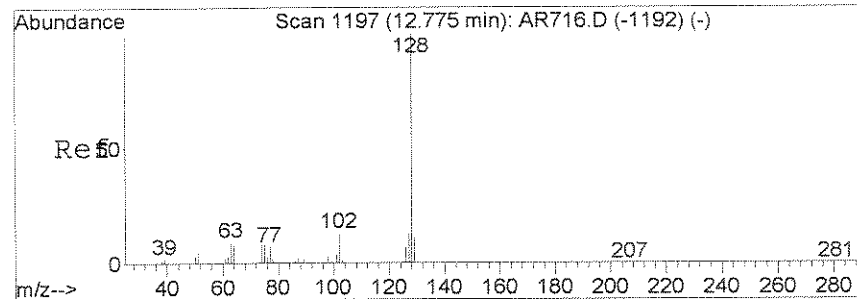
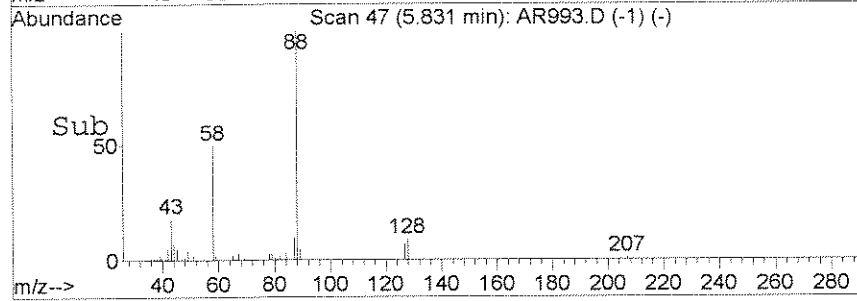
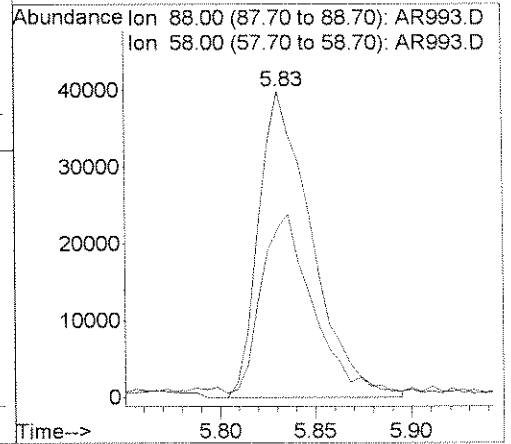
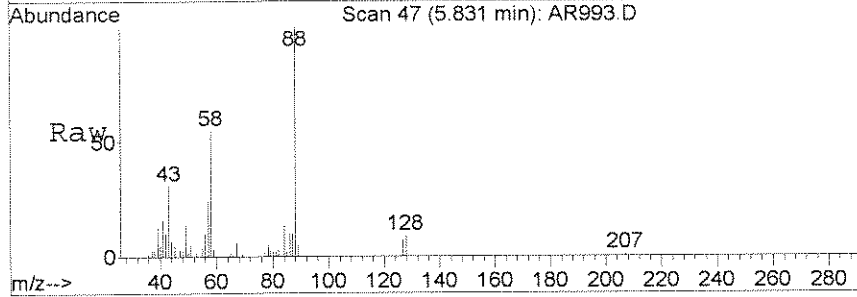
Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration





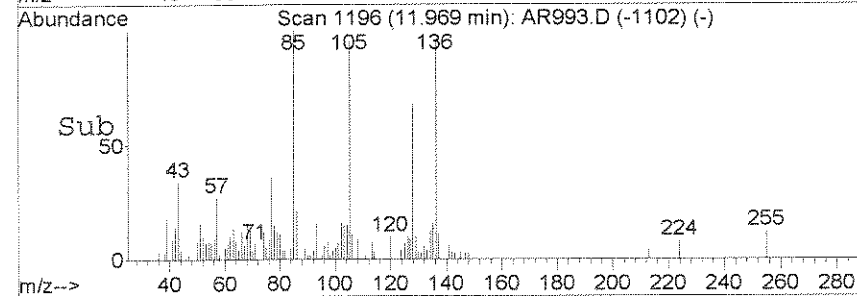
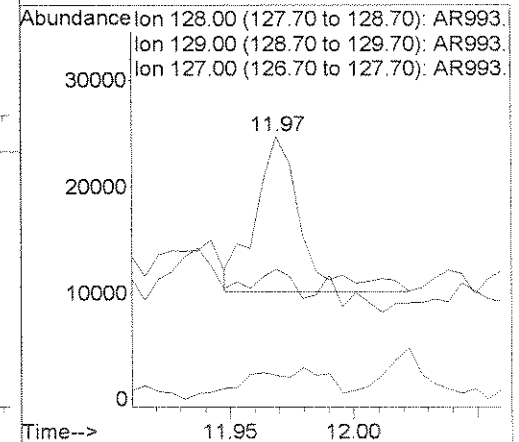
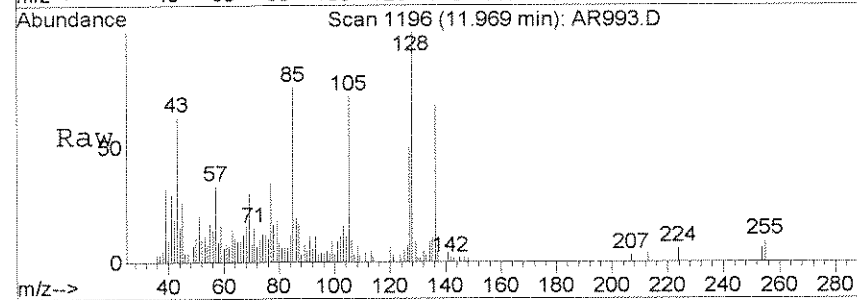
#2
 1,4-Dioxane
 Concen: 0.91 ppm
 RT: 5.83 min Scan# 47
 Delta R.T. 0.03 min
 Lab File: AR993.D
 Acq: 30 Jun 2008 3:12 pm

Tgt Ion	Resp	Lower	Upper
88	76261		
58	52.9	38.6	78.6



#7
 Naphthalene
 Concen: 0.05 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AR993.D
 Acq: 30 Jun 2008 3:12 pm

Tgt Ion	Resp	Lower	Upper
128	18946		
129	0.0	0.0	31.0
127	18.8	0.0	32.4



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C.NEVA
 Reported: 08/05/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : H-48B

Date Sampled : 06/19/08 10:30 **Order #:** 1110981 **Sample Matrix:** WATER
Date Received: 06/20/08 **Submission #:** R2844538 **Analytical Run** 163181

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/23/08		
DATE ANALYZED	: 06/30/08		
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	0.20 JB	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	0.29 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	0.22 J	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 %)	99	%
NITROBENZENE-d5	(45 - 135 %)	71	%
2-FLUOROBIPHENYL	(45 - 135 %)	63	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR994.D
 Acq On : 30 Jun 2008 4:22 pm
 Sample : 1110981 0.94
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 16:49:09 2008

Vial: 13
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	92483	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	332596	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	170017	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	384743	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	334046	1.00	ppm	0.00
33) d12-Perylene	21.32	264	292167	1.00	ppm	0.00

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	267934	1.41	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	70.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	372109	1.26	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	63.00%
28) SURR6,TERPHENYL-D14	16.25	244	559038	1.98	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	99.00%

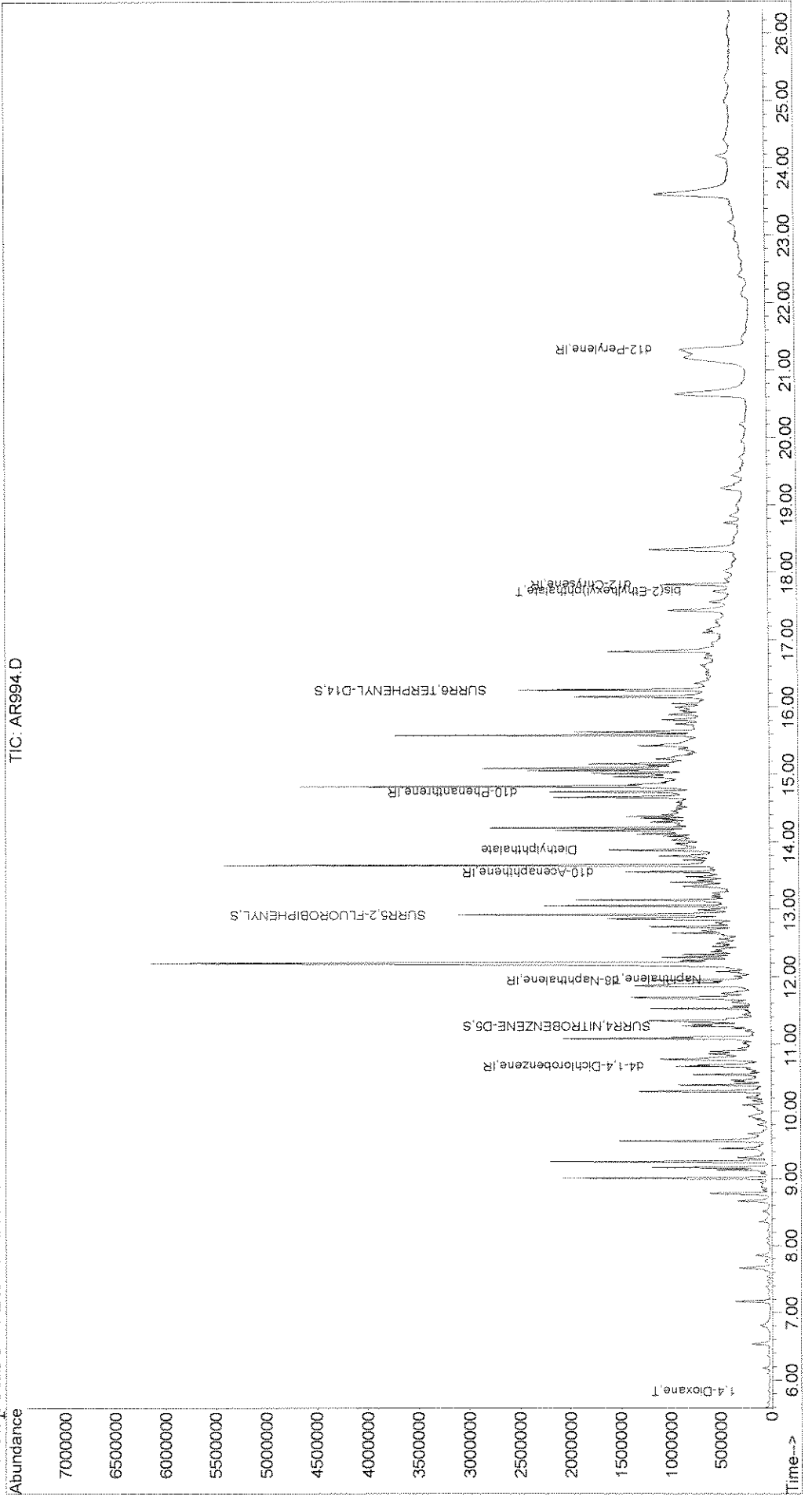
Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.85	88	16300	0.31	ppm	98
7) Naphthalene	11.97	128	22499	0.07	ppm	90
17) Diethylphthalate	13.88	149	59011	0.21	ppm	96
30) bis(2-Ethylhexyl)phthalate	17.72	149	55857	0.23	ppm	97

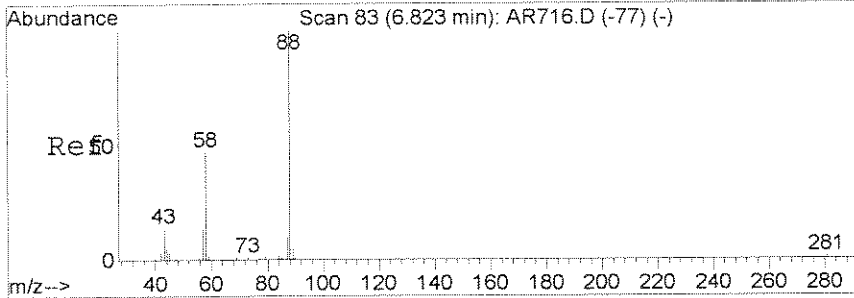
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR994.D
 Acq On : 30 Jun 2008 4:22 pm Vial: 13
 Sample : 1110981 0.94 Operator: J.Wu
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA Inst : 5973C
 MS Integration Params: RTEINT.P Multiplr: 1.00
 Quant Time: Jul 1 8:40 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration

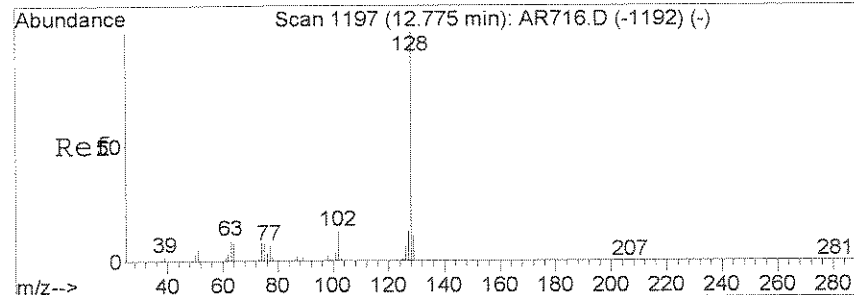
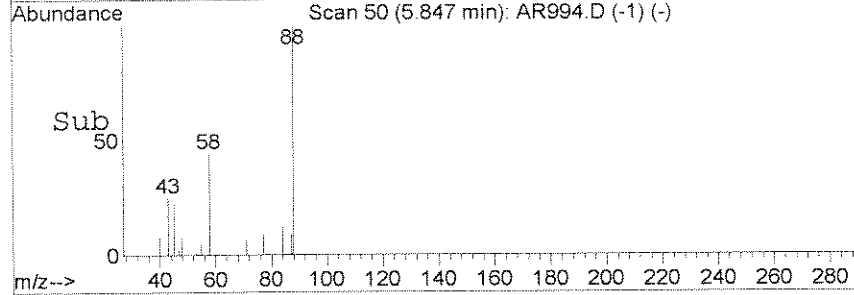
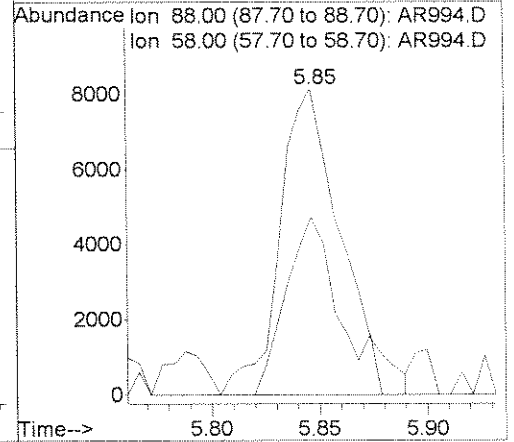
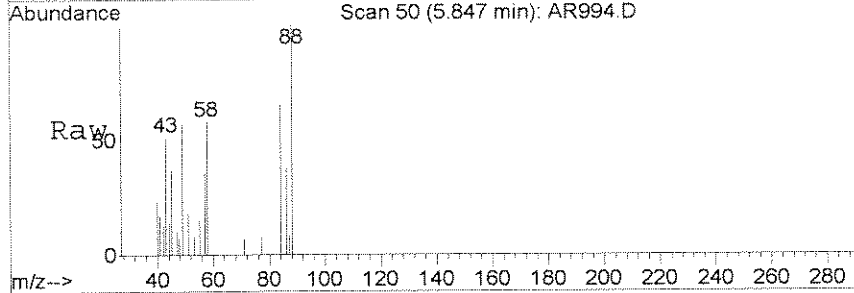


00399



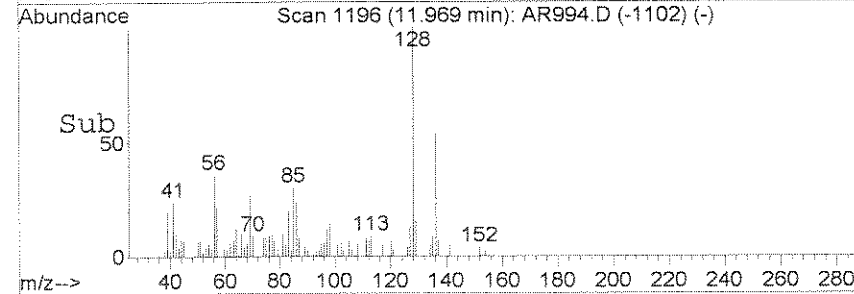
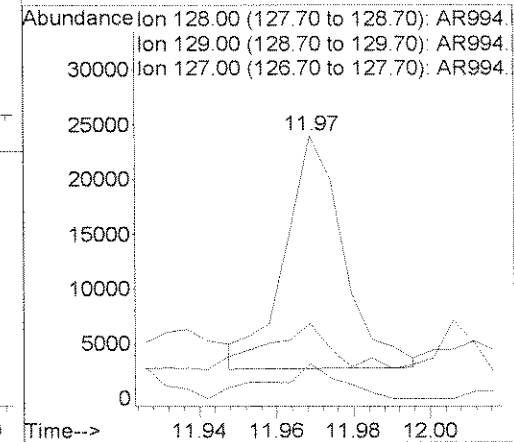
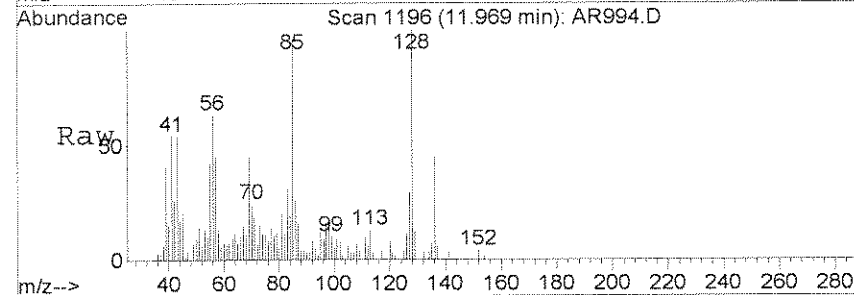
#2
 1,4-Dioxane
 Concen: 0.31 ppm
 RT: 5.85 min Scan# 50
 Delta R.T. 0.04 min
 Lab File: AR994.D
 Acq: 30 Jun 2008 4:22 pm

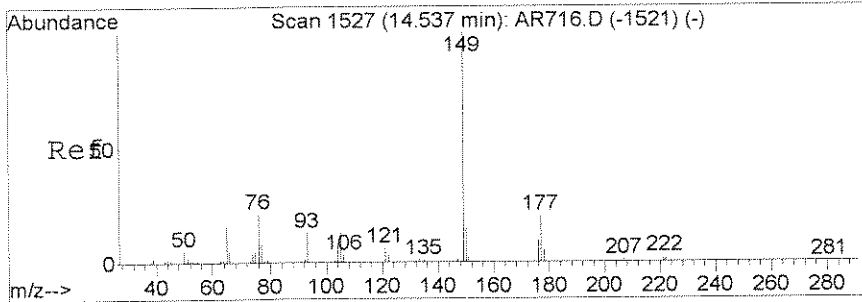
Tgt Ion	Resp	Lower	Upper
88	16300		
58	59.9	38.6	78.6



#7
 Naphthalene
 Concen: 0.07 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AR994.D
 Acq: 30 Jun 2008 4:22 pm

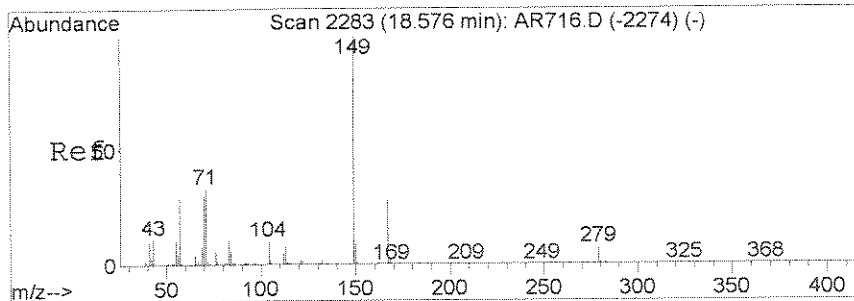
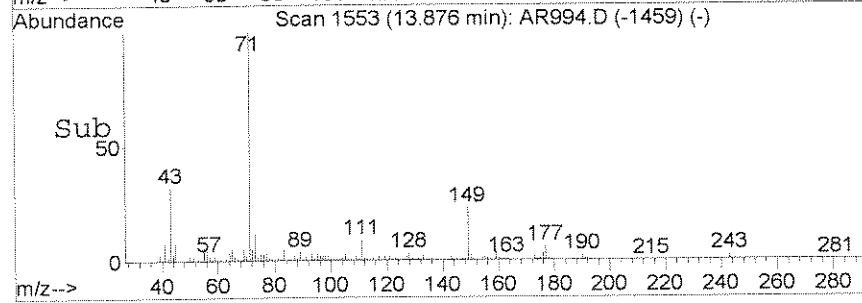
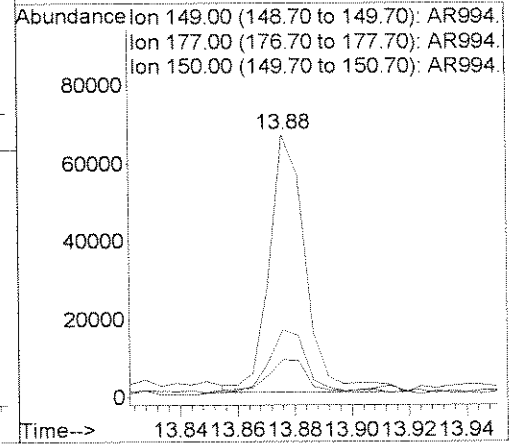
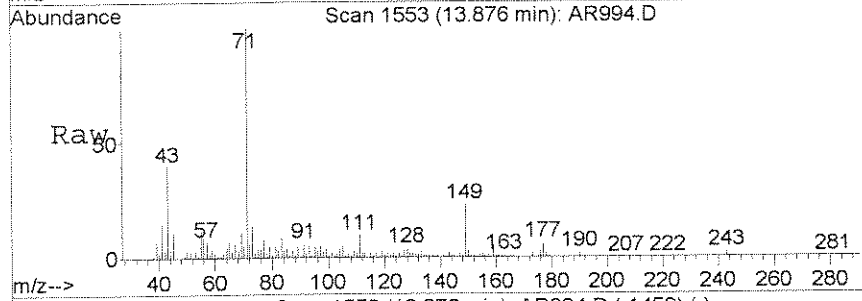
Tgt Ion	Resp	Lower	Upper
128	22499		
129	13.6	0.0	31.0
127	17.2	0.0	32.4





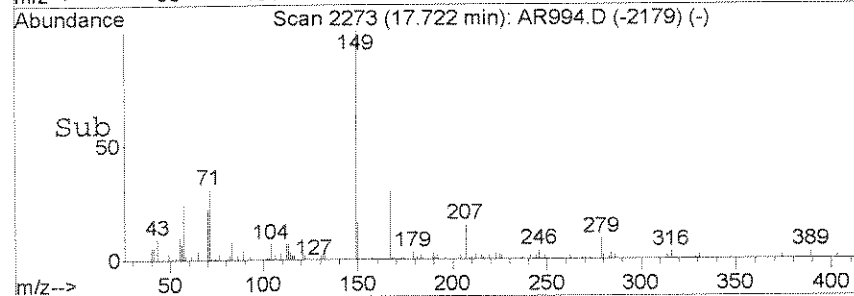
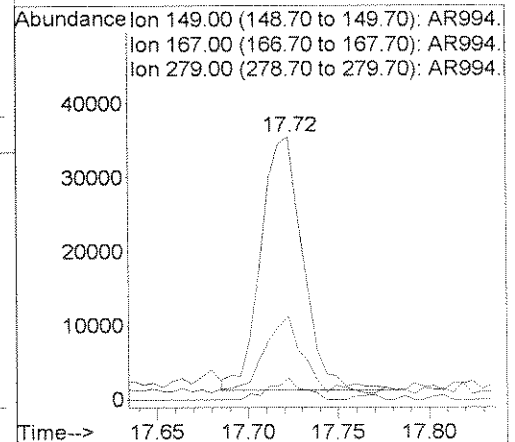
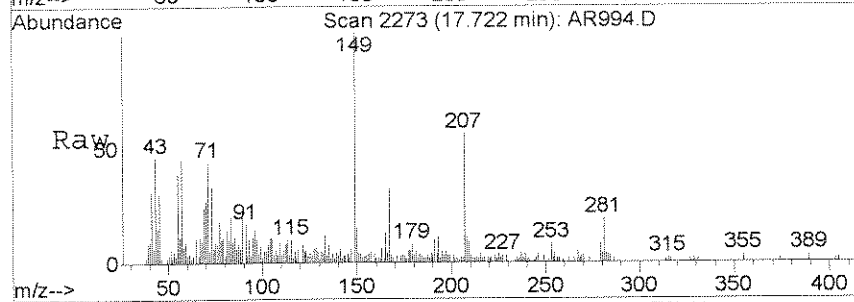
#17
 Diethylphthalate
 Concen: 0.21 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. -0.00 min
 Lab File: AR994.D
 Acq: 30 Jun 2008 4:22 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
177	24.3	15.3	28.3
150	12.0	8.3	15.3



#30
 bis(2-Ethylhexyl)phthalate
 Concen: 0.23 ppm
 RT: 17.72 min Scan# 2273
 Delta R.T. -0.00 min
 Lab File: AR994.D
 Acq: 30 Jun 2008 4:22 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
167	29.5	22.5	33.7
279	7.9	5.5	8.3



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66BD

Date Sampled : 06/20/08 12:00 Order #: 1111264 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/26/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	0.95		
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	4.8 U	UG/L
DI-N-BUTYL PHTHALATE	5.0	4.8 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
DIETHYL PHTHALATE	5.0	4.8 U	UG/L
DIMETHYL PHTHALATE	5.0	4.8 U	UG/L
1, 4-DIOXANE	2.0	0.36 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.8 U	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.038 J	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.8 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 %)	70	%
NITROBENZENE-d5	(45 - 135 %)	76	%
2-FLUOROBIPHENYL	(45 - 135 %)	66	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\063008\AR998.D Vial: 17
 Acq On : 30 Jun 2008 6:42 pm Operator: J.Wu
 Sample : ~~111264~~ 0.95 *111264 To 7/2/08* Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 12:37:08 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

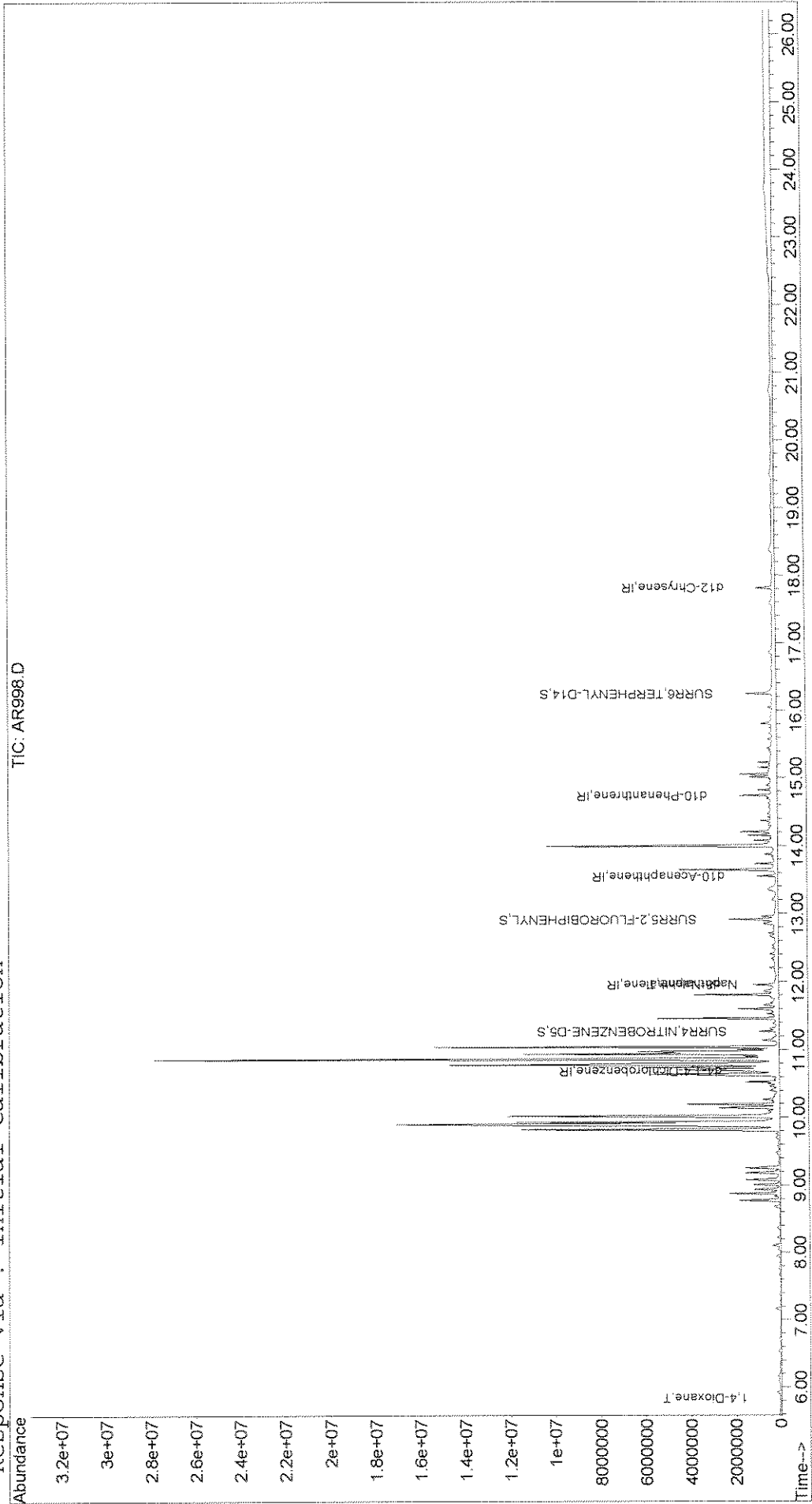
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	102323	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	347154	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	164383	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	420552	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	345595	1.00	ppm	0.00
33) d12-Perylene	0.00	264	0 ↓	0.00	ppm	-21.32
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	302570	1.52	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	76.00%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	377741	1.31	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	65.50%
28) SURR6,TERPHENYL-D14	16.25	244	409060	1.40	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	70.00%
Target Compounds						
2) 1,4-Dioxane	5.84	88	22594	0.38	ppm	82
7) Naphthalene	11.97	128	13272	0.04	ppm	80

JW
 00357

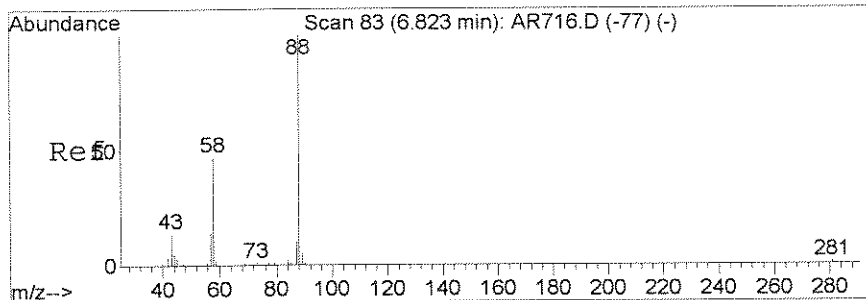
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR998.D Vial: 17
 Acq On : 30 Jun 2008 6:42 pm Operator: J.Wu
 Sample : 111264 0.95 *111264* *50 7/1/08* Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 12:37 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

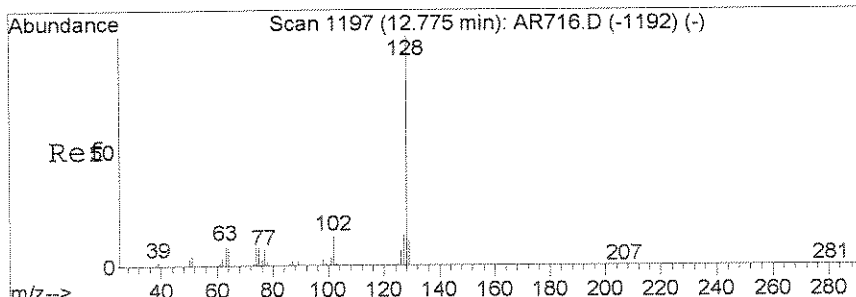
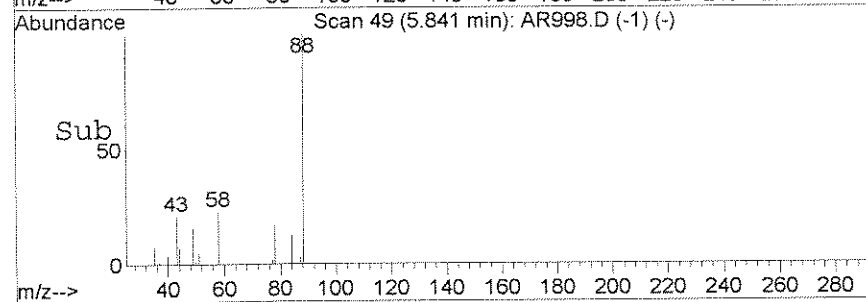
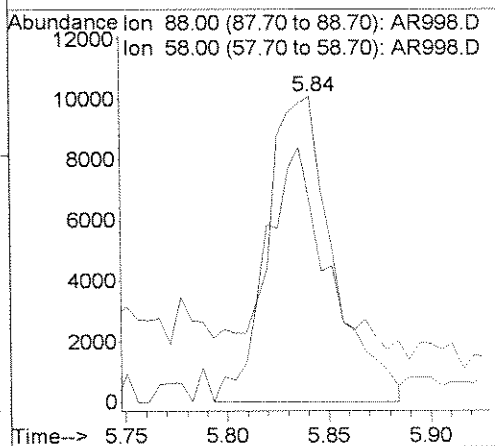
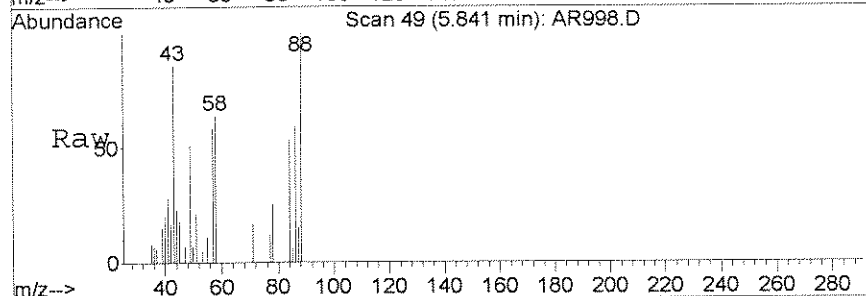


063008



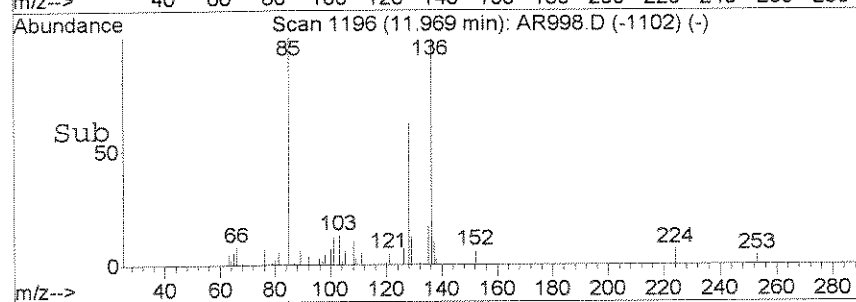
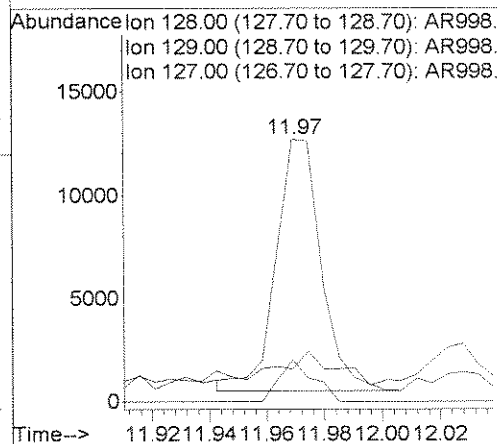
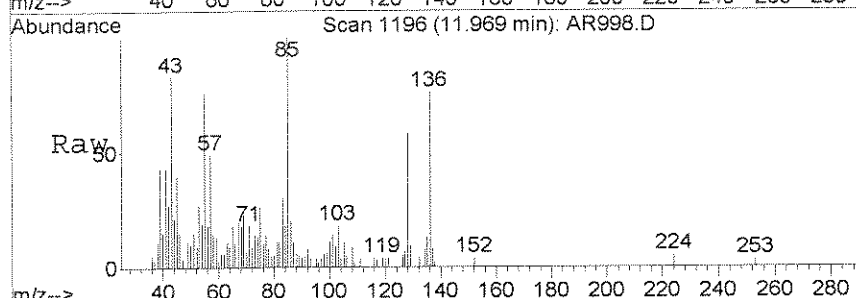
#2
 1,4-Dioxane
 Concen: 0.38 ppm
 RT: 5.84 min Scan# 49
 Delta R.T. 0.04 min
 Lab File: AR998.D
 Acq: 30 Jun 2008 6:42 pm

Tgt Ion	Resp	Lower	Upper
88	22594		
58	44.9	38.6	78.6



#7
 Naphthalene
 Concen: 0.04 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AR998.D
 Acq: 30 Jun 2008 6:42 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
129	16.8	0.0	31.0
127	2.7	0.0	32.4



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66BD

Date Sampled : 06/20/08 12:00 Order #: 1111264 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/26/08		
DATE ANALYZED	: 07/01/08		
ANALYTICAL DILUTION:	0.95		
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	4.8 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.8 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	4.8 U	UG/L
DIMETHYL PHTHALATE	5.0	4.8 U	UG/L
1, 4-DIOXANE	2.0	0.36 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.8 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	0.048 J	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.8 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 %)	70	%
NITROBENZENE-d5	(45 - 135 %)	77	%
2-FLUOROBIPHENYL	(45 - 135 %)	69	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070108\AS012.D
 Acq On : 1 Jul 2008 1:32 pm
 Sample : 1111264 0.95
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA/Re
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 12:40:00 2008

Vial: 2
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	108864	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	364126	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	170122	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	430737	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	358814	1.00	ppm	0.00
33) d12-Perylene	0.00	264	0	0.00	ppm	-21.32

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	322191	1.54	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	77.00%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	414262	1.37	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	68.50%
28) SURR6,TERPHENYL-D14	16.25	244	421855	1.39	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	69.50%

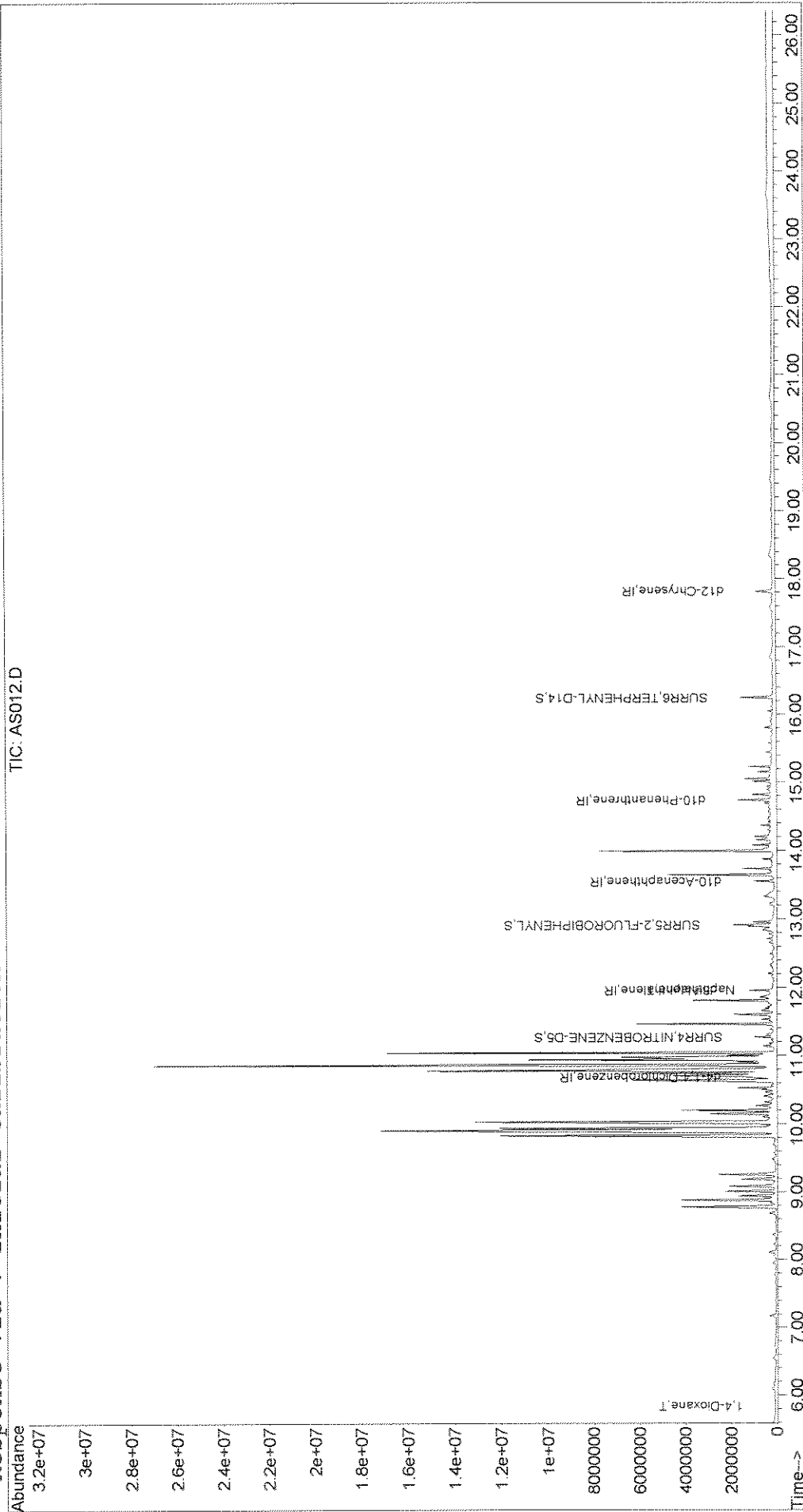
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	23531	0.38	ppm	86
7) Naphthalene	11.97	128	17506	0.05	ppm	93

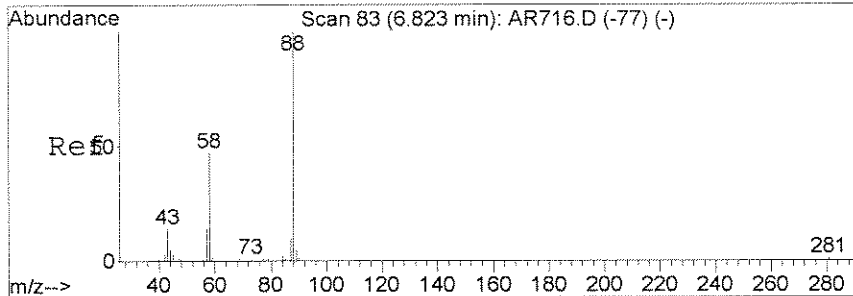
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS012.D Vial: 2
 Acq On : 1 Jul 2008 1:32 pm Operator: J.Wu
 Sample : 1111264 0.95 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Re Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 12:40 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

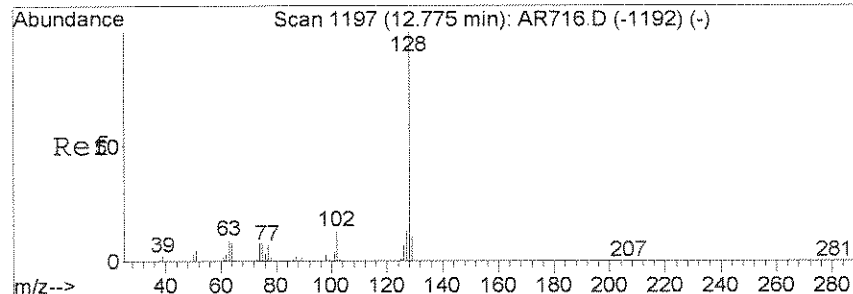
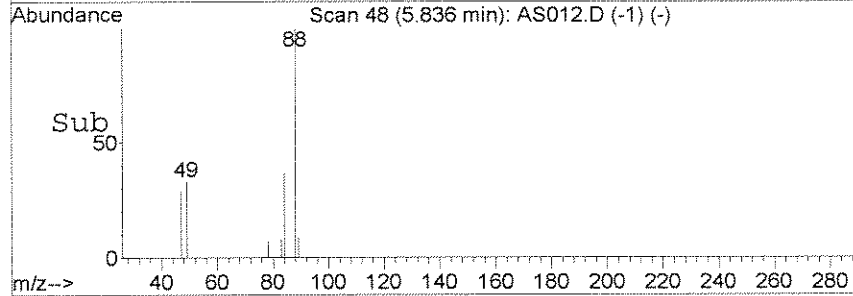
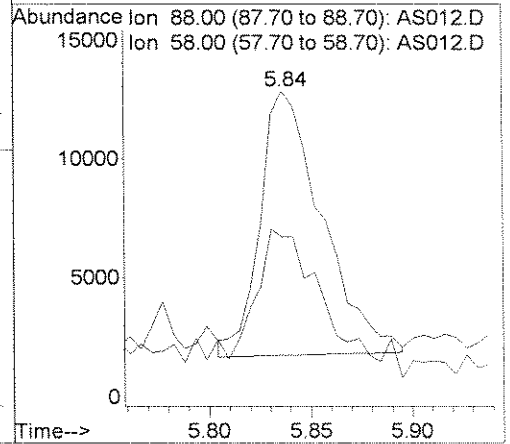
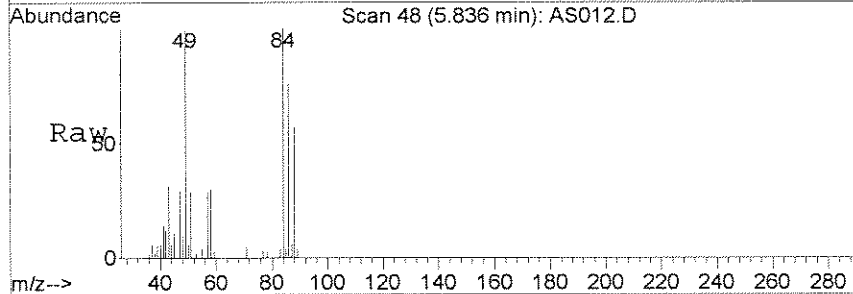


00402



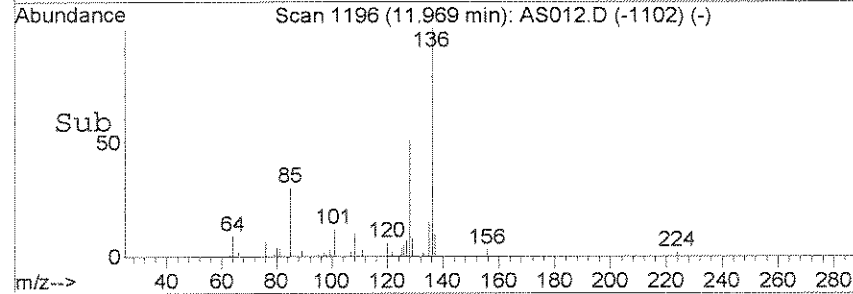
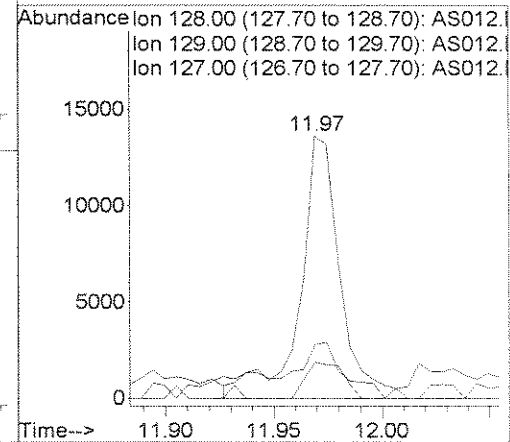
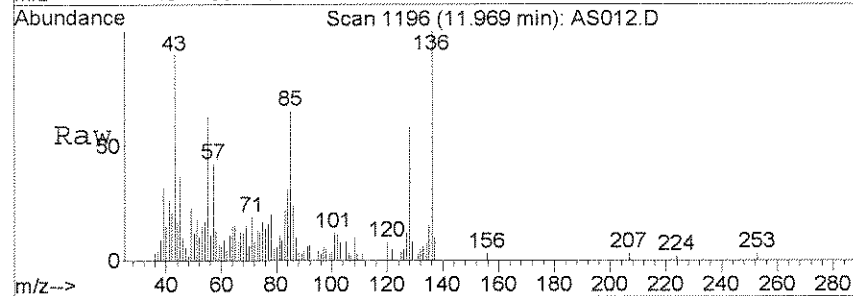
#2
 1,4-Dioxane
 Concen: 0.38 ppm
 RT: 5.84 min Scan# 48
 Delta R.T. 0.03 min
 Lab File: AS012.D
 Acq: 1 Jul 2008 1:32 pm

Tgt Ion	Resp	Lower	Upper
88	23531		
58	48.0	38.6	78.6



#7
 Naphthalene
 Concen: 0.05 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: AS012.D
 Acq: 1 Jul 2008 1:32 pm

Tgt Ion	Resp	Lower	Upper
128	17506		
128	100		
129	14.1	0.0	31.0
127	14.6	0.0	32.4



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-65B

Date Sampled : 06/20/08 12:00 Order #: 1111265 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 0.96			
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	4.8 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.8 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	4.8 U	UG/L
DIMETHYL PHTHALATE	5.0	4.8 U	UG/L
1, 4-DIOXANE	2.0	0.58 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.8 U	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.19 U	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.8 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 %)	97	%
NITROBENZENE-d5	(45 - 135 %)	75	%
2-FLUOROBIPHENYL	(45 - 135 %)	66	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR999.D Vial: 18
 Acq On : 30 Jun 2008 7:16 pm Operator: J.Wu
 Sample : 111265 0.96 111265 J.Wu Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 19:43:12 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

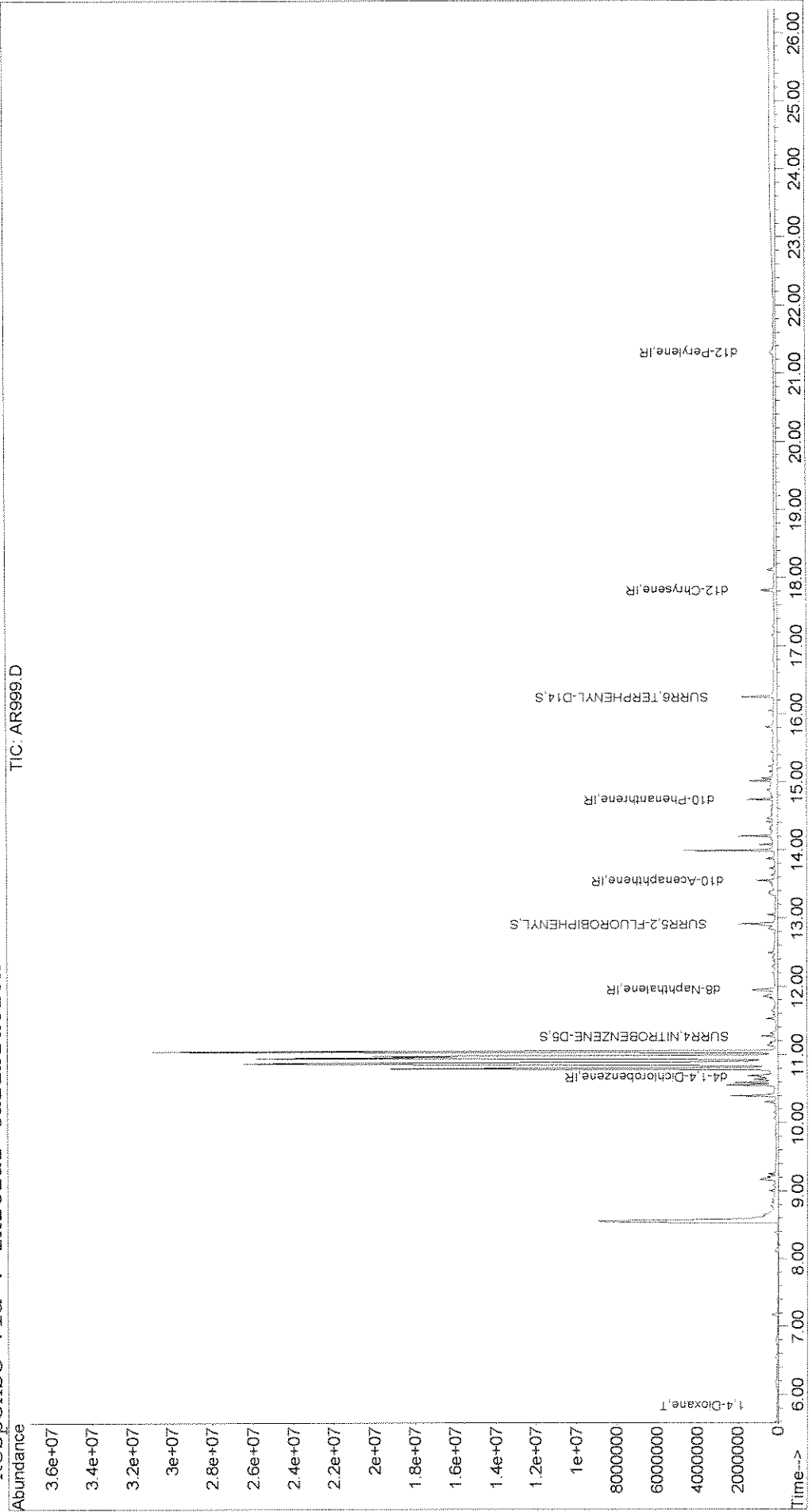
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	88387	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	339131	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	157868	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	410478	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	329560	1.00	ppm	0.00
33) d12-Perylene	21.30	264	183311	1.00	ppm	-0.02
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	288662	1.49	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	74.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	366793	1.32	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	66.00%
28) SURR6,TERPHENYL-D14	16.25	244	541964	1.94	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	97.00%
Target Compounds						Qvalue
2) 1,4-Dioxane	5.84	88	30216	0.60	ppm	92

J.Wu
 00405

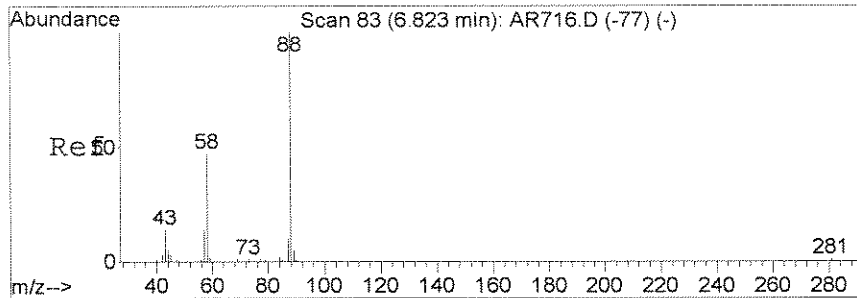
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR999.D Vial: 18
 Acq On : 30 Jun 2008 7:16 pm Operator: J.Wu
 Sample : H1265 0.96 *100% det 50%* Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 1 9:13 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration

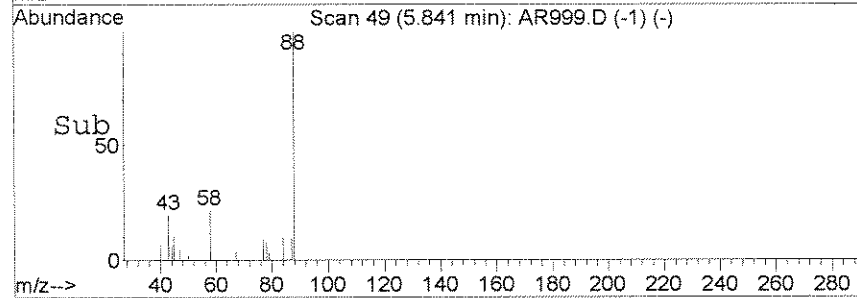
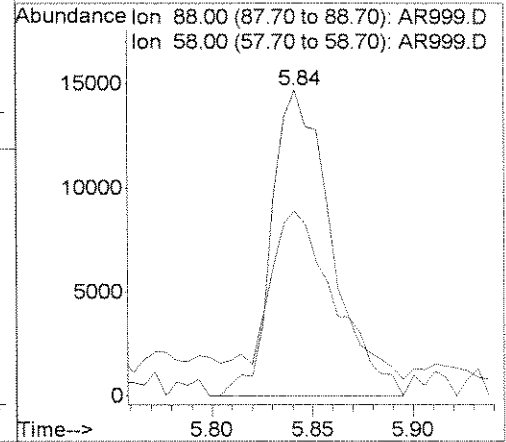
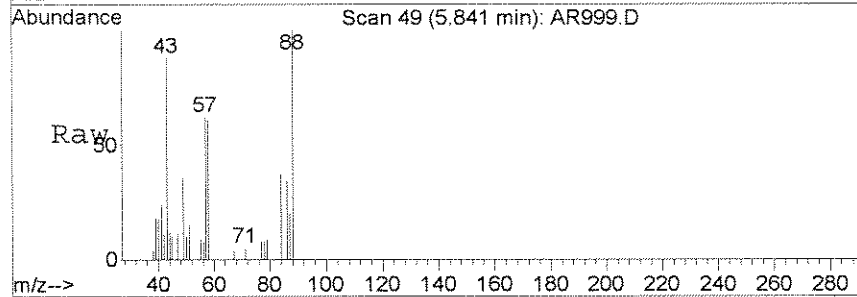


99406



#2
 1,4-Dioxane
 Concen: 0.60 ppm
 RT: 5.84 min Scan# 49
 Delta R.T. 0.04 min
 Lab File: AR999.D
 Acq: 30 Jun 2008 7:16 pm

Tgt Ion	Resp	Lower	Upper
88	30216		
88	100		
58	52.5	38.6	78.6



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66B

Date Sampled : 06/20/08 10:50 Order #: 1111266 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 06/30/08			
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	4.7 U	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	0.38 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	0.056 J	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 %)	98	%
NITROBENZENE-d5	(45 - 135 %)	71	%
2-FLUOROBIPHENYL	(45 - 135 %)	68	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\063008\AS001.D Vial: 19
 Acq On : 30 Jun 2008 7:51 pm Operator: J.Wu
 Sample : ~~111266~~ 0.94 *(111266 JW)* Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 20:17:37 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	92346	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	335010	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	150781	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	375217	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	302925	1.00	ppm	0.00
33) d12-Perylene	21.31	264	<u>15000</u> ↓	1.00	ppm	-0.01

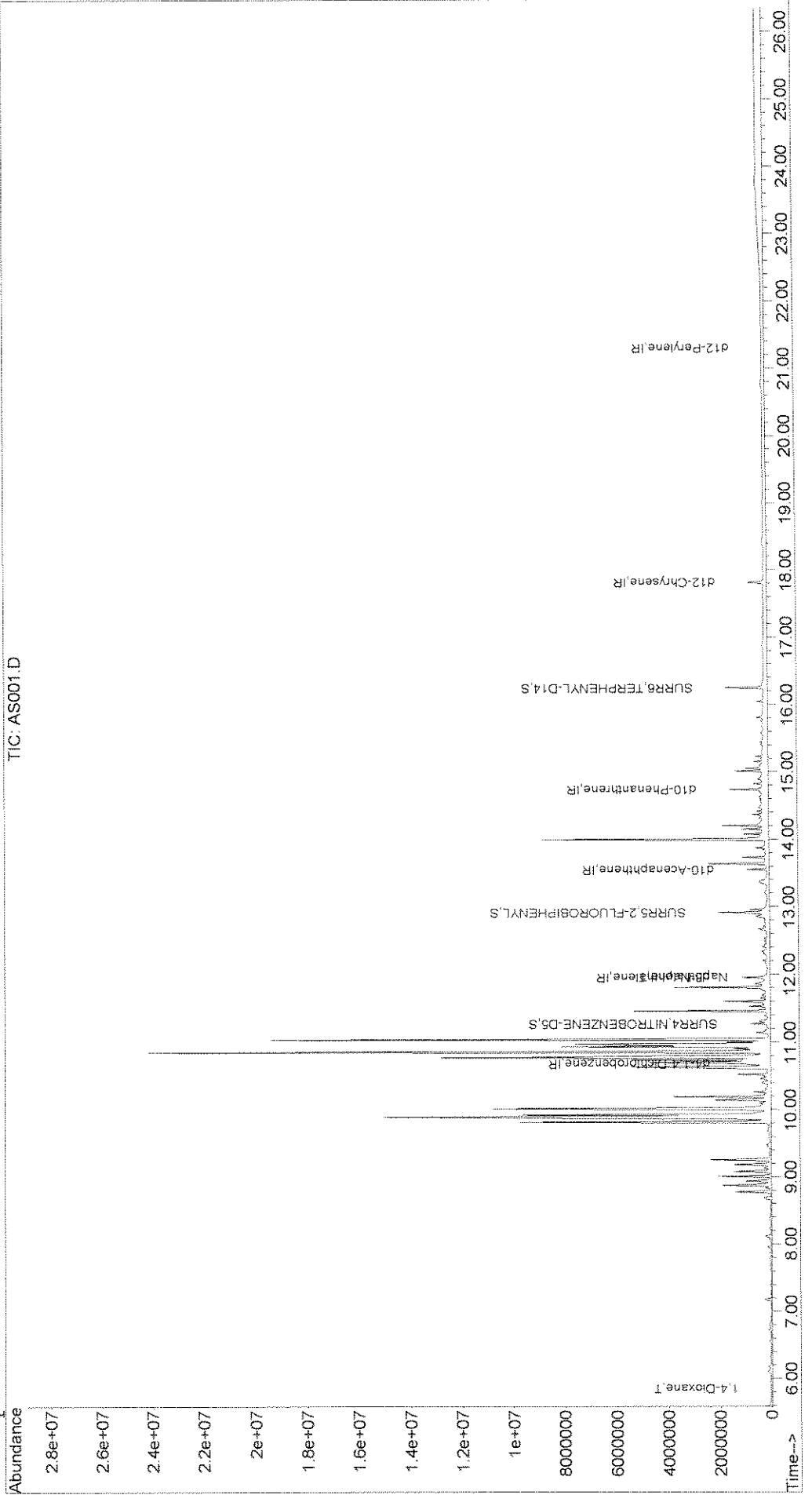
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	272132	1.42	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	71.00%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	359208	1.35	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	67.50%
28) SURR6,TERPHENYL-D14	16.25	244	503600	1.96	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	98.00%

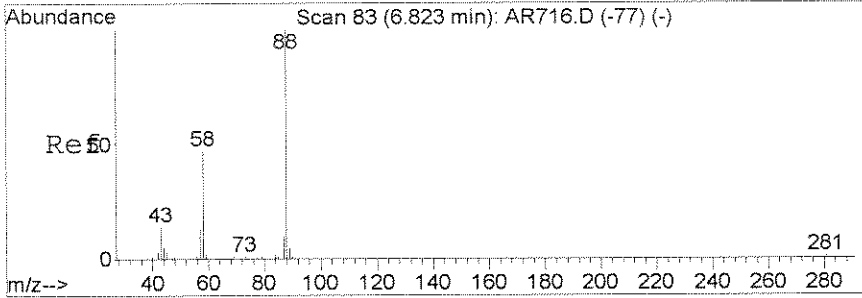
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.85	88	21199	0.40	ppm	92
7) Naphthalene	11.97	128	21586	0.06	ppm	97

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AS001.D Vial: 19
 Acq On : 30 Jun 2008 7:51 pm Operator: J.Wu
 Sample : 111266 0.94 (111266) 1/6 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 1 9:17 2008 Quant Results File: LVI0626.RES

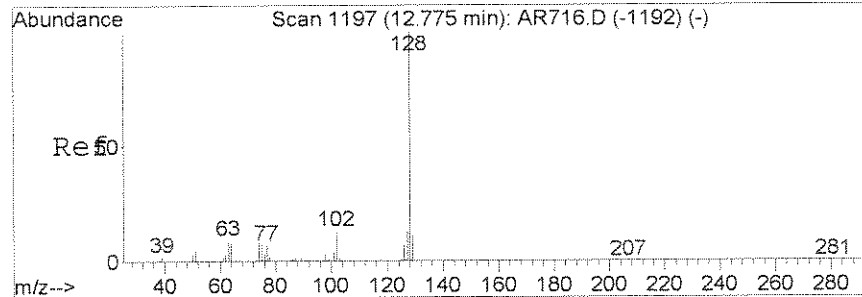
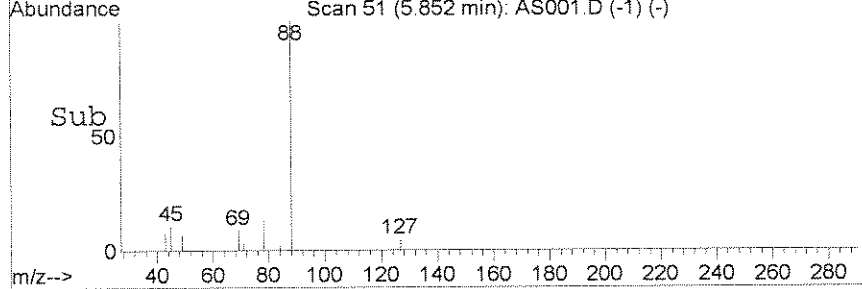
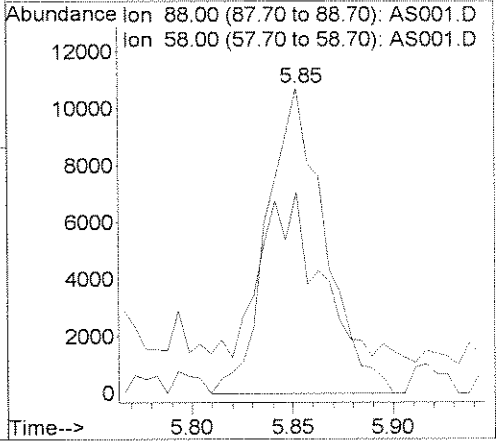
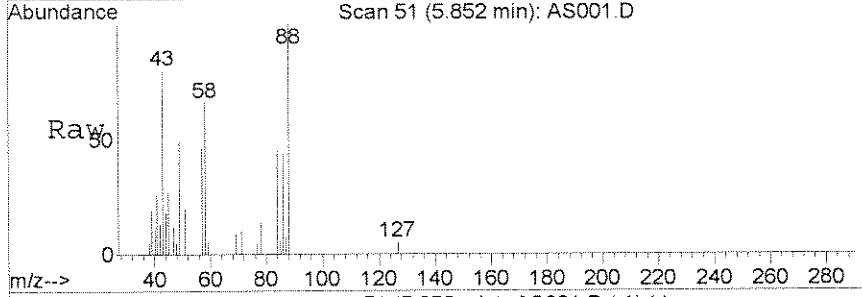
Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration





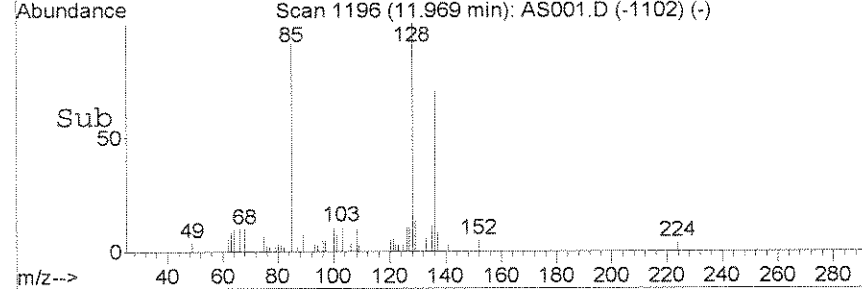
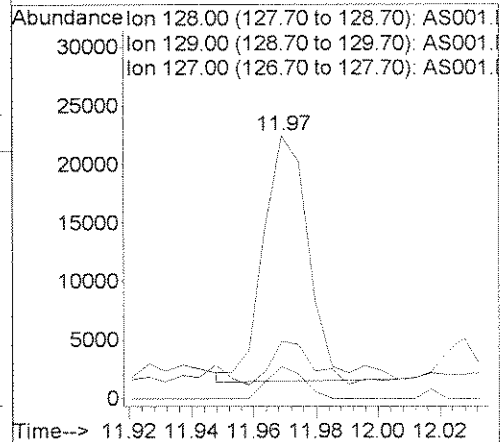
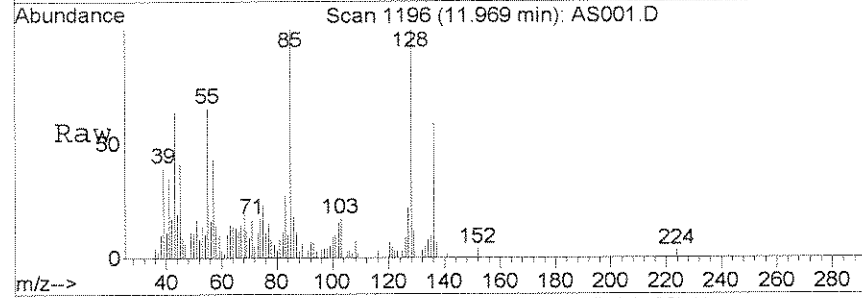
#2
 1,4-Dioxane
 Concen: 0.40 ppm
 RT: 5.85 min Scan# 51
 Delta R.T. 0.05 min
 Lab File: AS001.D
 Acq: 30 Jun 2008 7:51 pm

Tgt Ion	Resp	Lower	Upper
88	21199		
58	52.6	38.6	78.6



#7
 Naphthalene
 Concen: 0.06 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: AS001.D
 Acq: 30 Jun 2008 7:51 pm

Tgt Ion	Resp	Lower	Upper
128	21586		
129	13.3	0.0	31.0
127	12.8	0.0	32.4



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66B

Date Sampled : 06/20/08 10:50 Order #: 1111266 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 07/01/08			
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	4.7 U	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	0.32 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
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.056 J	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 %)	94	%
NITROBENZENE-d5	(45 - 135 %)	80	%
2-FLUOROBIPHENYL	(45 - 135 %)	66	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS013.D Vial: 3
 Acq On : 1 Jul 2008 2:07 pm Operator: J.Wu
 Sample : 1111266 0.94 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Re Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 02 12:41:25 2008 Quant Results File: LVI0626.RES

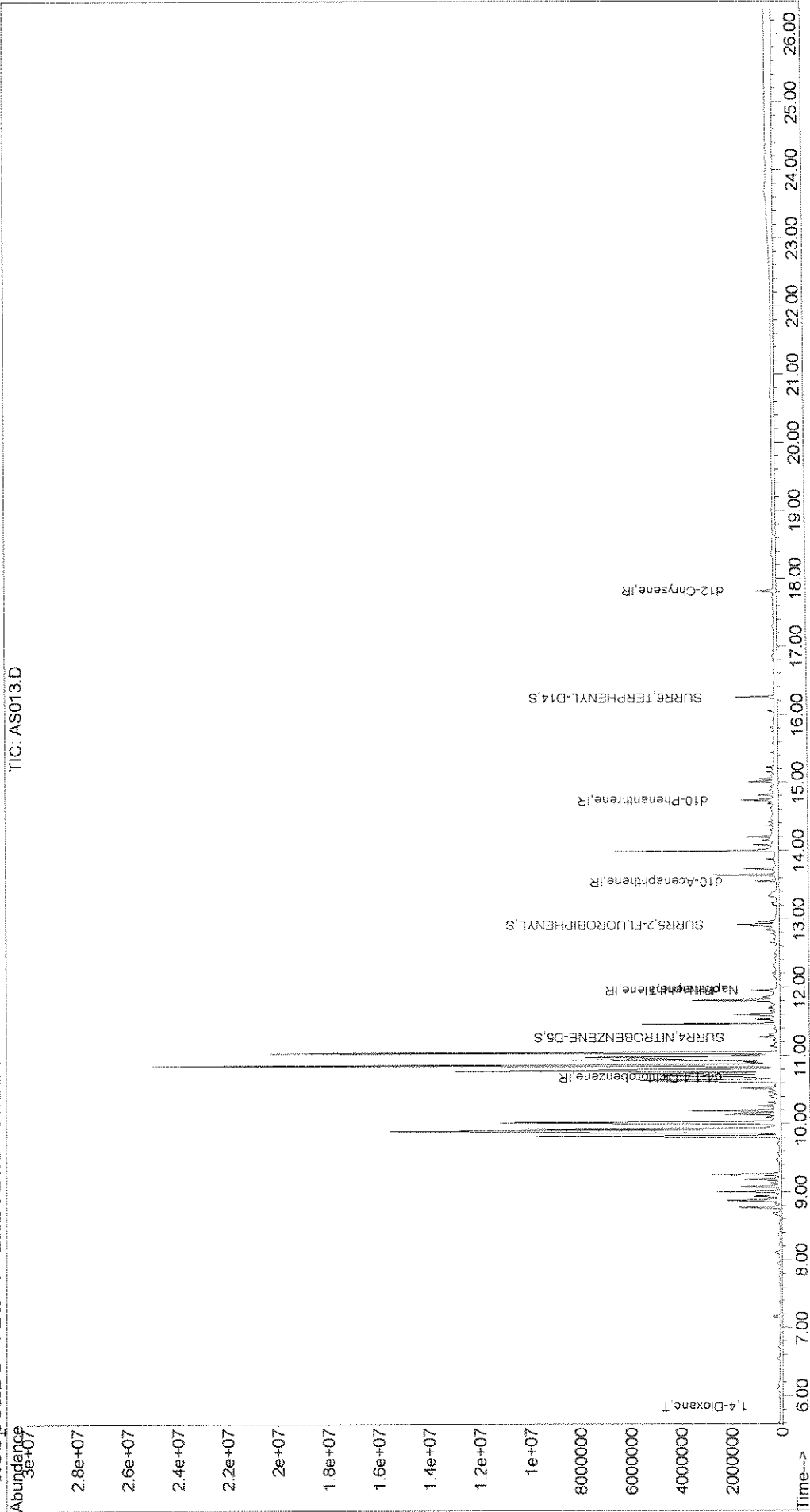
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	100108	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	347869	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	165879	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	387749	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	332625	1.00	ppm	0.00
33) d12-Perylene	0.00	264	0	0.00	ppm	-21.32
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	316333	1.59	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	79.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	384501	1.32	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	66.00%
28) SURR6,TERPHENYL-D14	16.25	244	525901	1.87	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	93.50%
Target Compounds						Qvalue
2) 1,4-Dioxane	5.84	88	19327	0.34	ppm	91
7) Naphthalene	11.97	128	22870	0.06	ppm	90

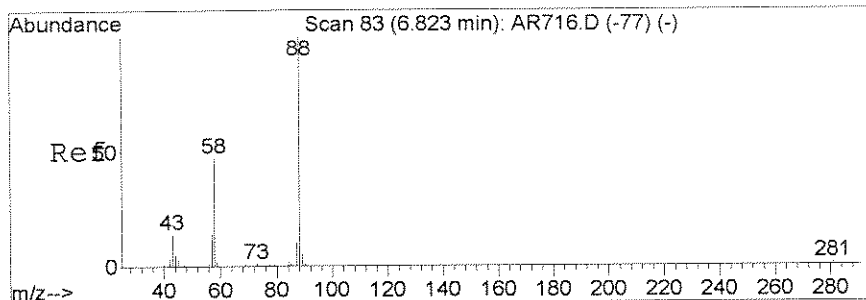
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS013.D Vial: 3
 Acq On : 1 Jul 2008 2:07 pm Operator: J.Wu
 Sample : 1111266 0.94 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Re Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 12:42 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

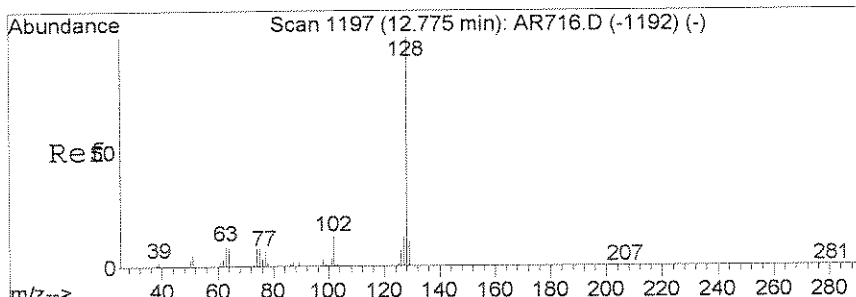
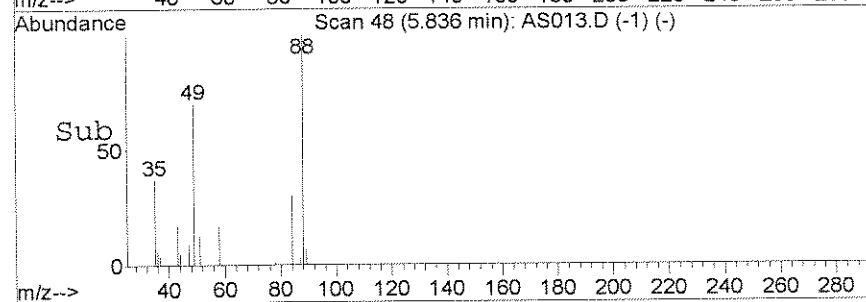
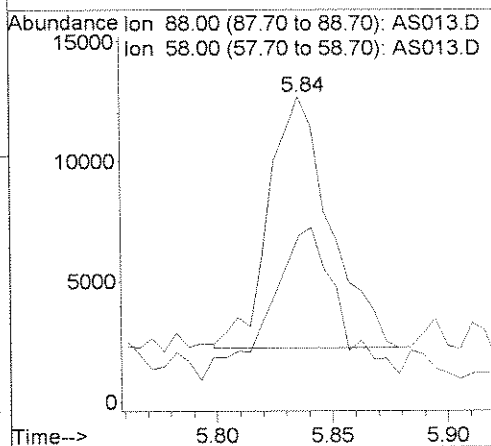
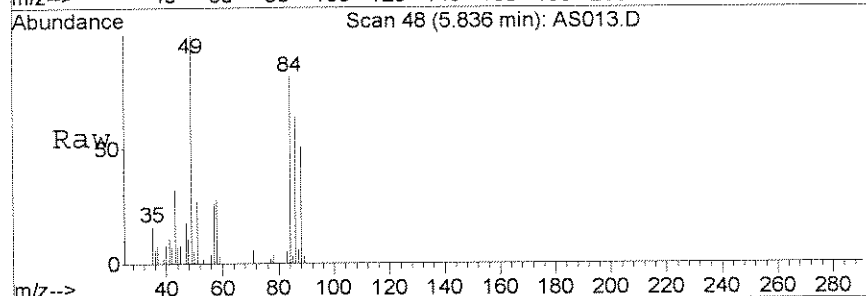


00414



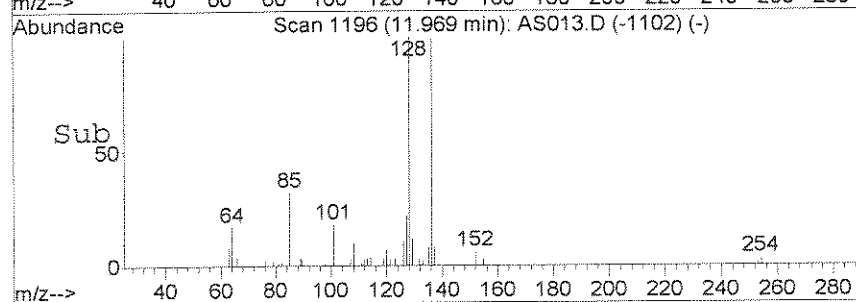
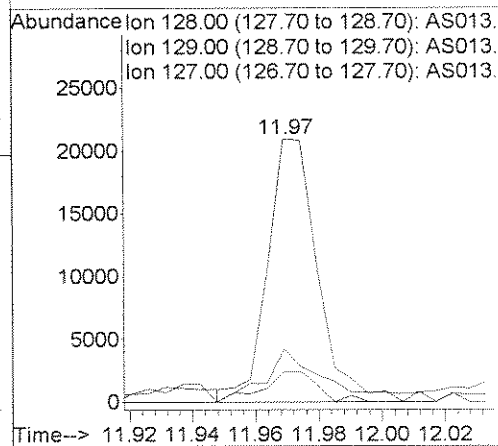
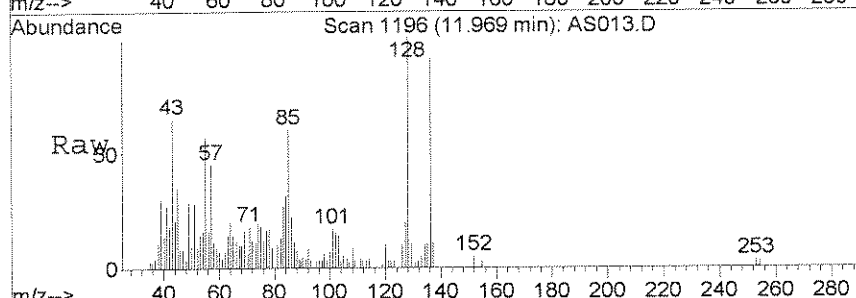
#2
 1,4-Dioxane
 Concen: 0.34 ppm
 RT: 5.84 min Scan# 48
 Delta R.T. 0.03 min
 Lab File: AS013.D
 Acq: 1 Jul 2008 2:07 pm

Tgt Ion	Resp	Lower	Upper
88	19327		
58	52.1	38.6	78.6



#7
 Naphthalene
 Concen: 0.06 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS013.D
 Acq: 1 Jul 2008 2:07 pm

Tgt Ion	Resp	Lower	Upper
128	22870		
129	11.7	0.0	31.0
127	19.1	0.0	32.4



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-37B

Date Sampled : 06/20/08 10:00 Order #: 1111267 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 0.95			
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	4.8 U	UG/L
DI-N-BUTYLPHthalate	5.0	4.8 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	0.13 J	UG/L
DIMETHYL PHTHALATE	5.0	4.8 U	UG/L
1, 4-DIOXANE	2.0	0.83 J	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	4.8 U	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.19 U	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.8 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 %)	98	%
NITROBENZENE-d5	(45 - 135 %)	79	%
2-FLUOROBIPHENYL	(45 - 135 %)	71	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AS002.D Vial: 20
 Acq On : 30 Jun 2008 8:25 pm Operator: J.Wu
 Sample : ~~111267~~ 0.95 *111267 7.5%?* Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 20:52:13 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	90583	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	326067	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	152517	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	378319	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	315100	1.00	ppm	0.00
33) d12-Perylene	21.31	264	230639	1.00	ppm	-0.01

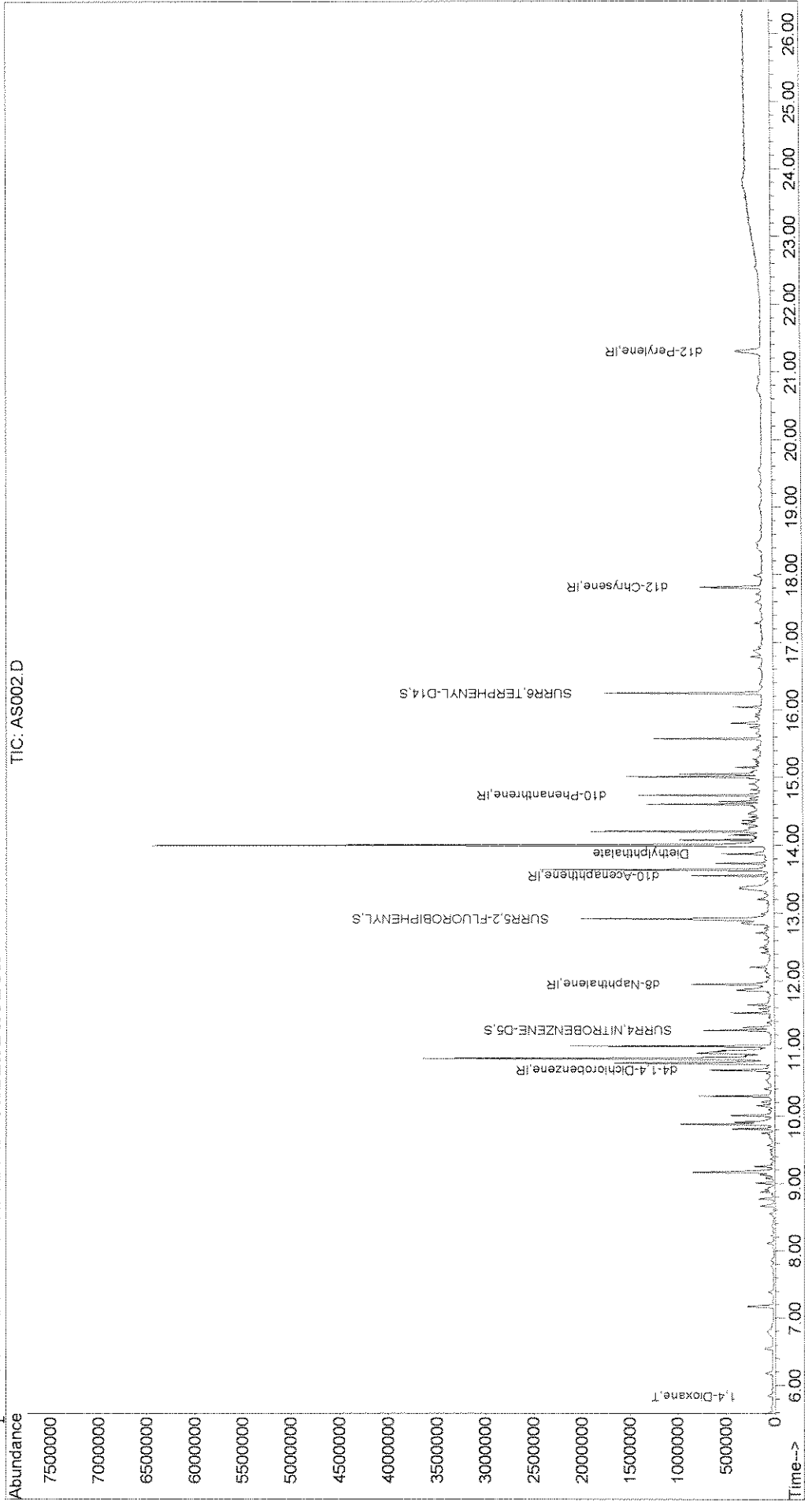
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	292863	1.57	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	78.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	385302	1.42	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	71.00%
28) SURR6,TERPHENYL-D14	16.25	244	520237	1.95	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	97.50%

Target Compounds						Qvalue
2) 1,4-Dioxane	5.84	88	45273	0.87	ppm	82
17) Diethylphthalate	13.88	149	36206	0.14	ppm	93

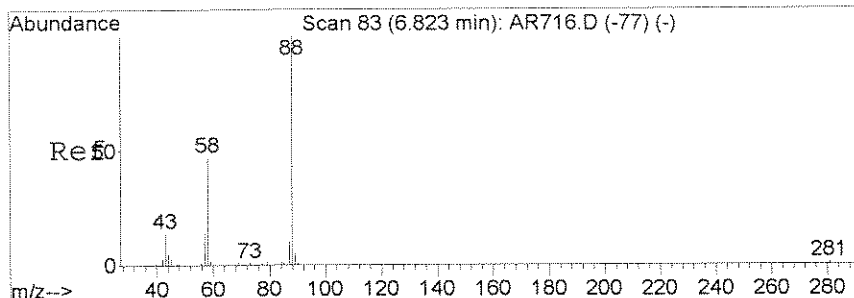
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AS002.D
 Acq On : 30 Jun 2008 8:25 pm Vial: 20
 Sample : ~~111267~~ 0.95 *101167* Operator: J.Wu
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Inst : 5973C
 MS Integration Params: RTEINT.P Multiplr: 1.00
 Quant Time: Jul 1 9:19 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration

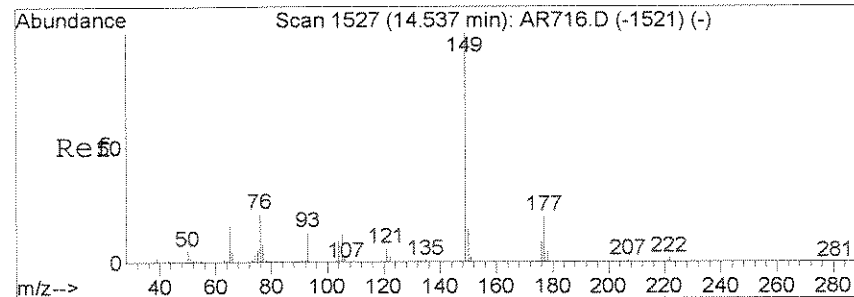
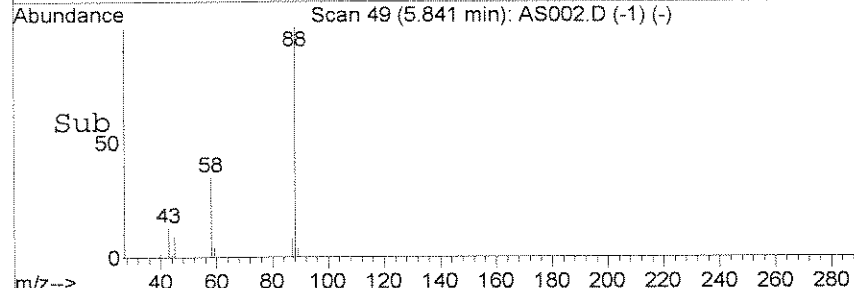
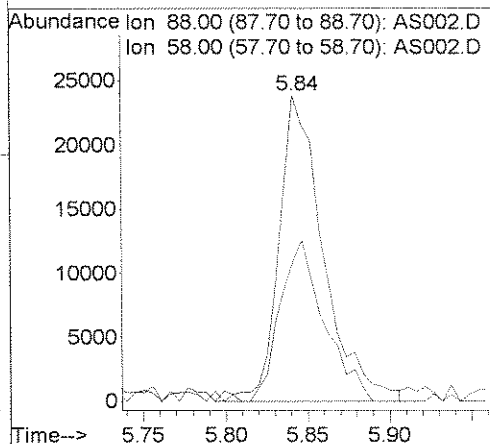
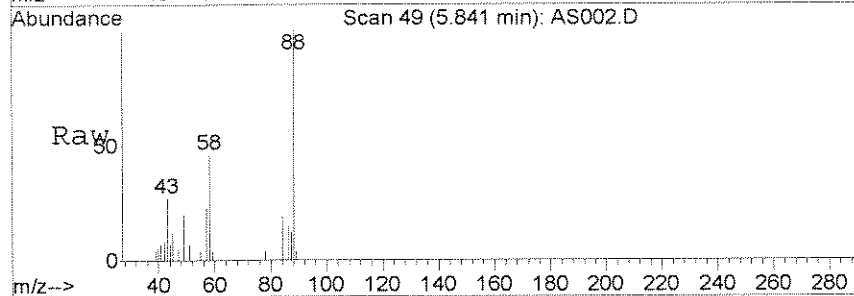


00418



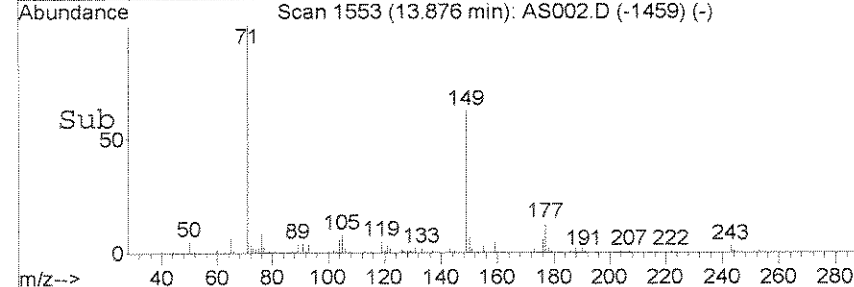
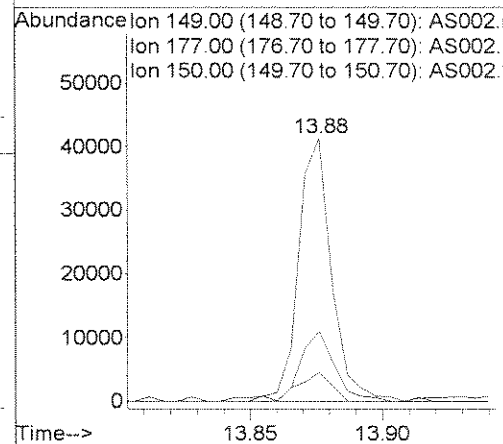
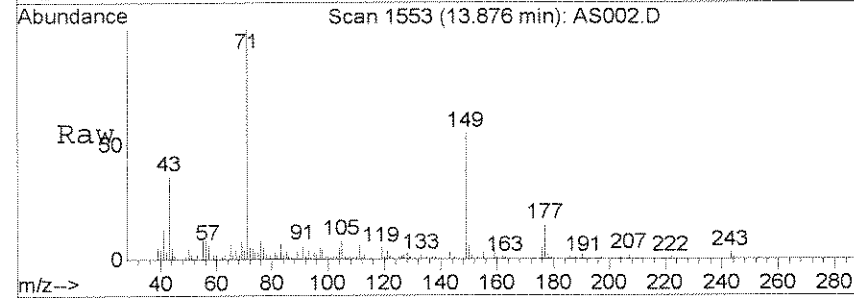
#2
 1,4-Dioxane
 Concen: 0.87 ppm
 RT: 5.84 min Scan# 49
 Delta R.T. 0.04 min
 Lab File: AS002.D
 Acq: 30 Jun 2008 8:25 pm

Tgt Ion	Resp	Lower	Upper
88	45273		
58	44.9	38.6	78.6



#17
 Diethylphthalate
 Concen: 0.14 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AS002.D
 Acq: 30 Jun 2008 8:25 pm

Tgt Ion	Resp	Lower	Upper
149	36206		
177	26.6	15.3	28.3
150	10.8	8.3	15.3



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-72B

Date Sampled : 06/23/08 13:40 Order #: 1111763 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 07/01/08			
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	4.7 U	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	0.70 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
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.066 J	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 %)	89	%
NITROBENZENE-d5	(45 - 135 %)	73	%
2-FLUOROBIPHENYL	(45 - 135 %)	61	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070108\AS014.D Vial: 4
 Acq On : 1 Jul 2008 2:42 pm Operator: J.Wu
 Sample : 1111763 0.94 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 16:05:59 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	94606	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	345162	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	172016	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	398264	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	364550	1.00	ppm	0.00
33) d12-Perylene	21.31	264	271619	1.00	ppm	0.00

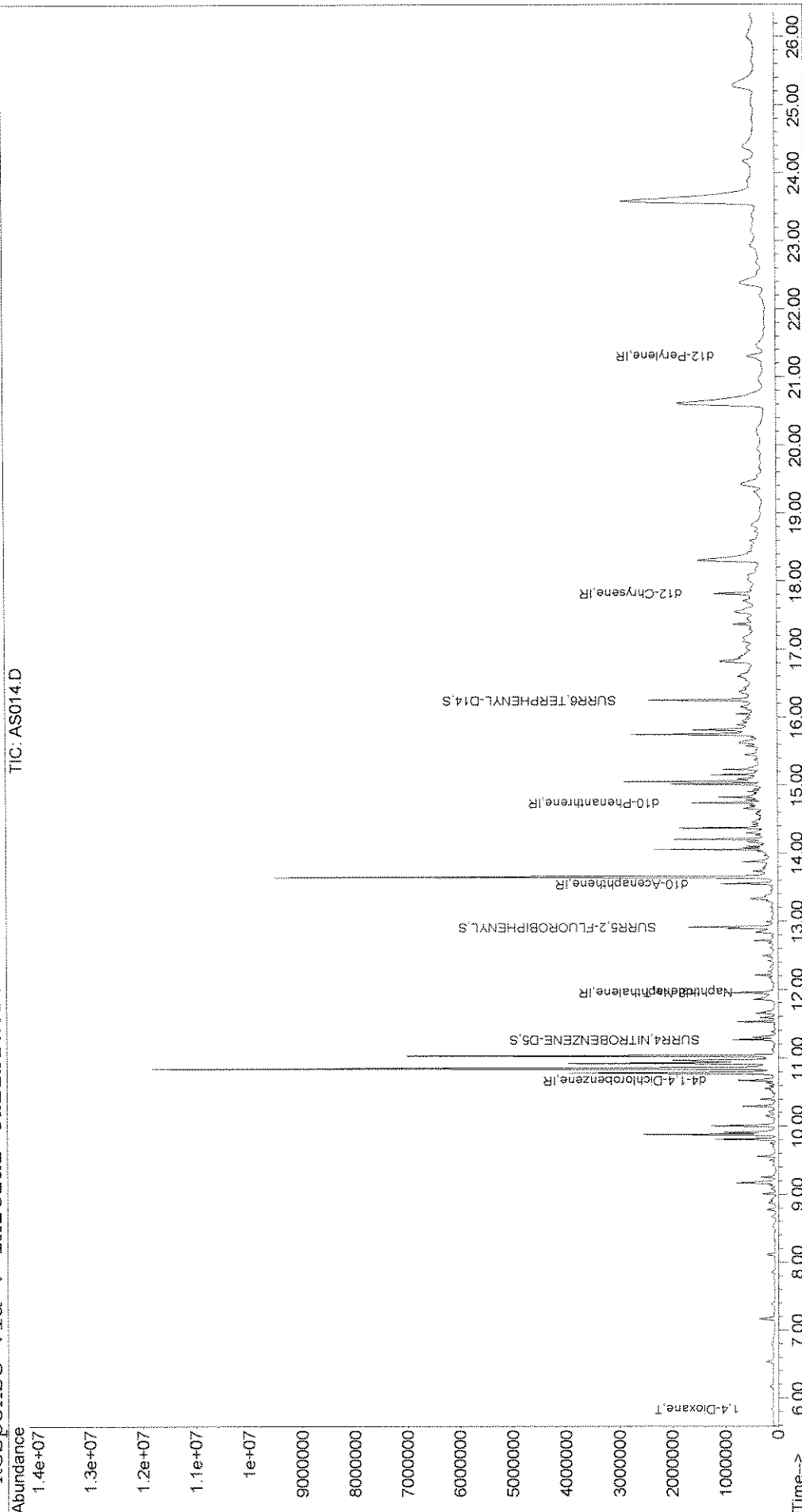
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	285989	1.45	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	72.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	364285	1.22	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	61.00%
28) SURR6,TERPHENYL-D14	16.25	244	548954	1.78	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	89.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	40356	0.74	ppm	99
7) Naphthalene	11.97	128	23785	0.07	ppm	97

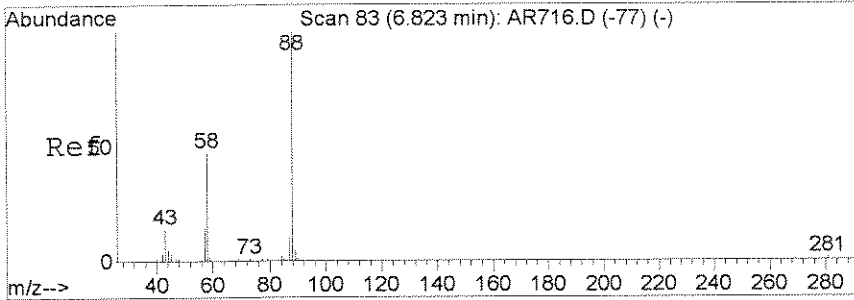
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS014.D Vial: 4
Acq On : 1 Jul 2008 2:42 pm Operator: J.Wu
Sample : 1111763 0.94 Inst : 5973C
Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 1 16:15 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration

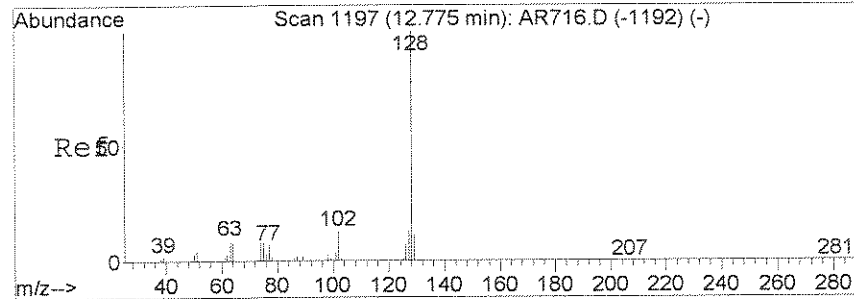
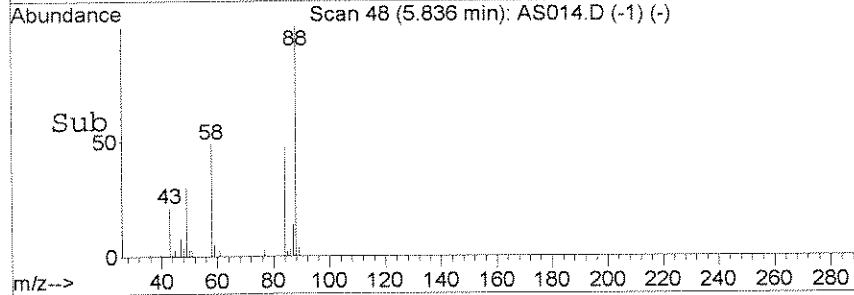
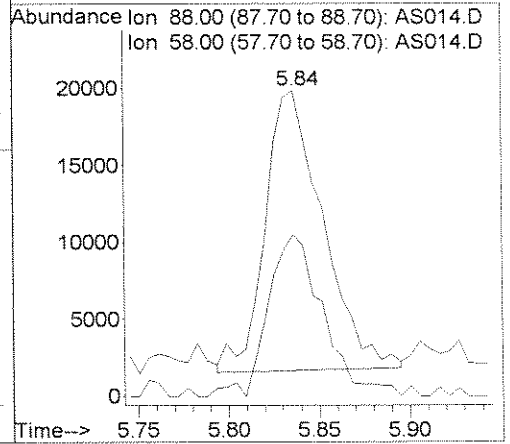
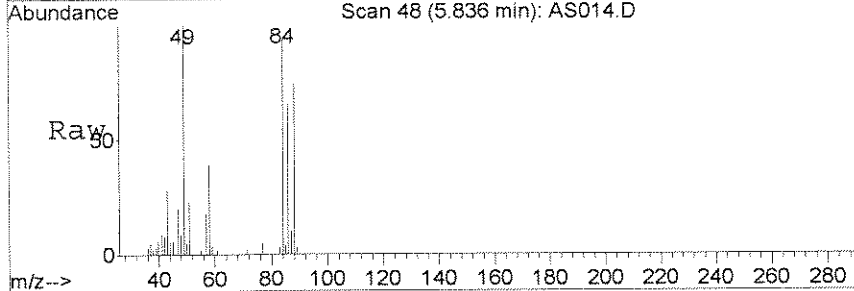


00422



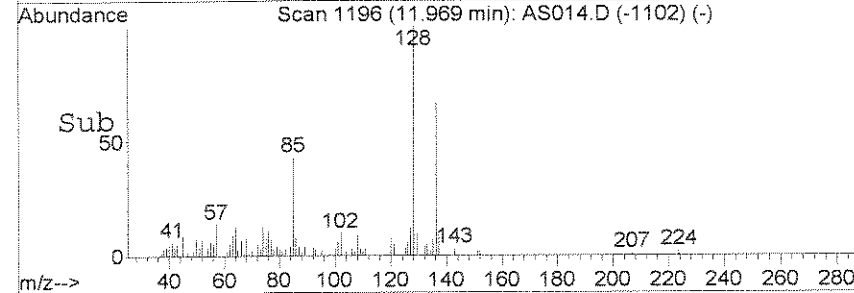
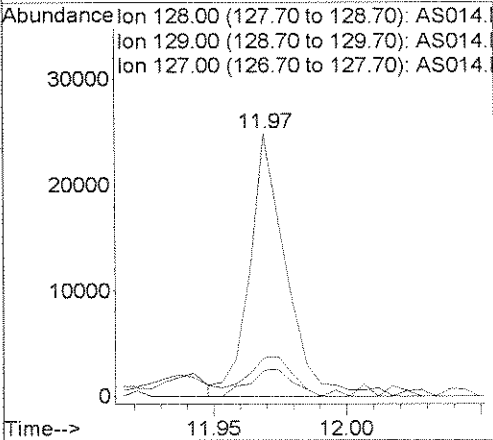
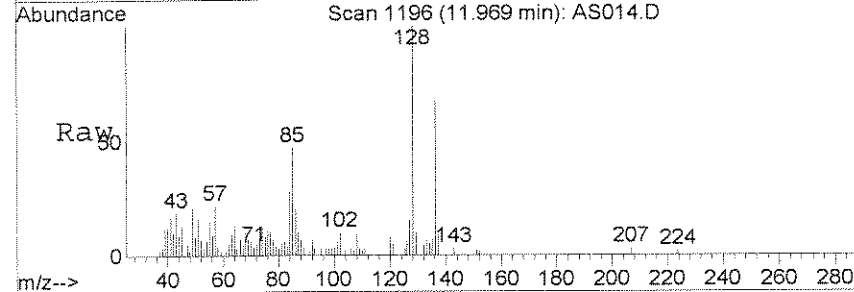
#2
 1,4-Dioxane
 Concen: 0.74 ppm
 RT: 5.84 min Scan# 48
 Delta R.T. 0.03 min
 Lab File: AS014.D
 Acq: 1 Jul 2008 2:42 pm

Tgt Ion	Resp	Lower	Upper
88	40356		
58	57.9	38.6	78.6



#7
 Naphthalene
 Concen: 0.07 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: AS014.D
 Acq: 1 Jul 2008 2:42 pm

Tgt Ion	Resp	Lower	Upper
128	23785		
129	10.1	0.0	31.0
127	11.1	0.0	32.4



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-94BX

Date Sampled : 06/23/08 12:00 Order #: 1111764 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/26/08		
DATE ANALYZED	: 07/01/08		
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	0.14 J	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	0.51 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
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.047 J	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 %)	75	%
2-FLUOROBIPHENYL	(45 - 135 %)	67	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS015.D Vial: 5
 Acq On : 1 Jul 2008 3:17 pm Operator: J.Wu
 Sample : 1111764 0.94 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 16:06:18 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	88220	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	321700	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	151586	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	378869	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	317507	1.00	ppm	0.00
33) d12-Perylene	0.00	264	0 ↓	0.00	ppm	-21.32

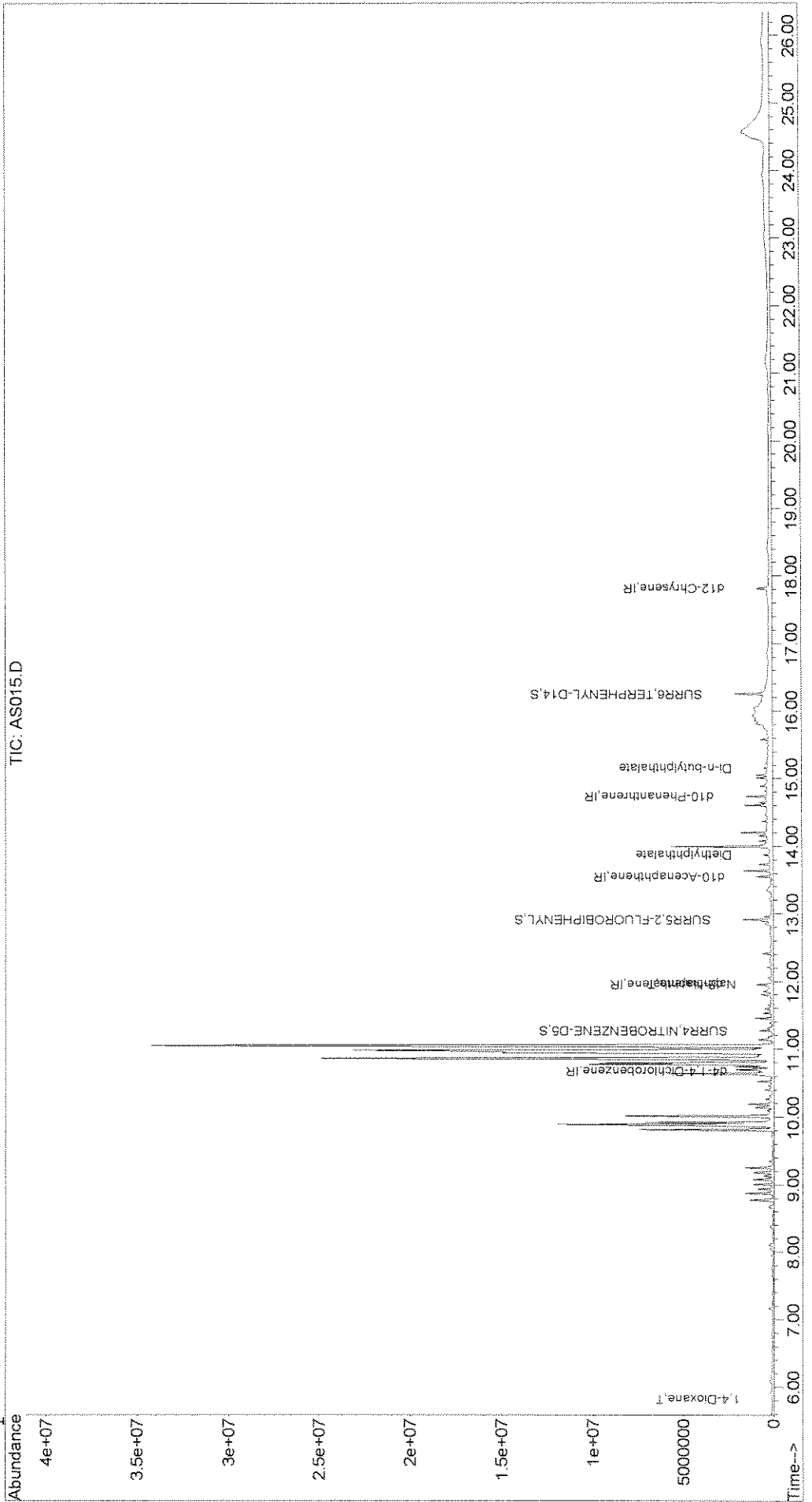
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	274253	1.49	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery	=	74.50%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	358292	1.34	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery	=	67.00%	
28) SURR6,TERPHENYL-D14	16.25	244	545852	2.03	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery	=	101.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.83	88	27198	0.54	ppm	78
7) Naphthalene	11.97	128	16916	0.05	ppm	95
17) Diethylphthalate	13.88	149	37318	0.15	ppm	96
24) Di-n-butylphthalate	15.15	149	110224	0.27	ppm	98

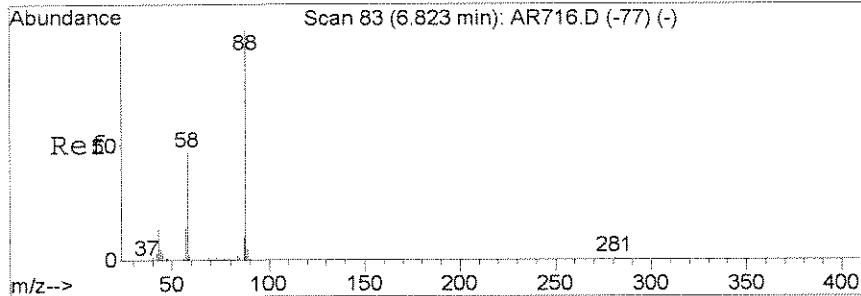
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS015.D Vial: 5
 Acq On : 1 Jul 2008 3:17 pm Operator: J.Wu
 Sample : 1111764 0.94 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 1 16:16 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration

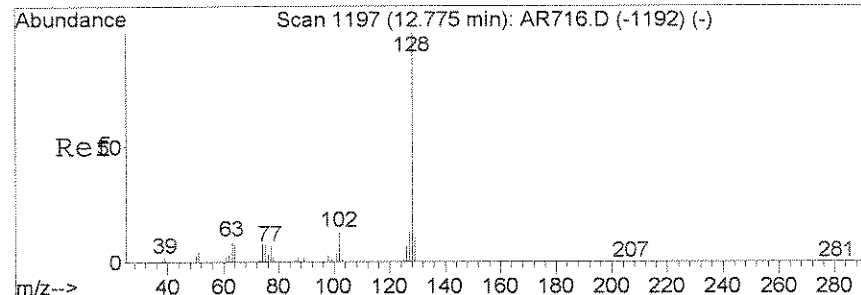
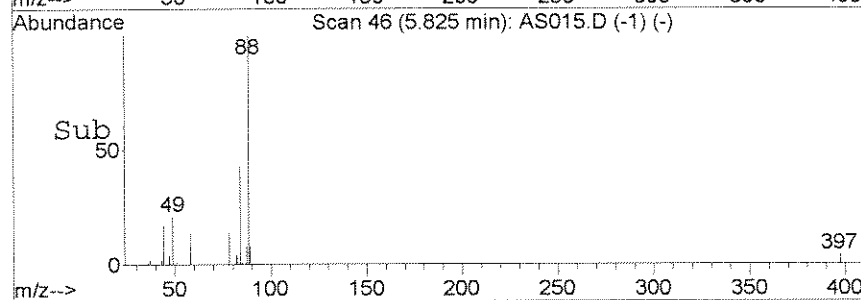
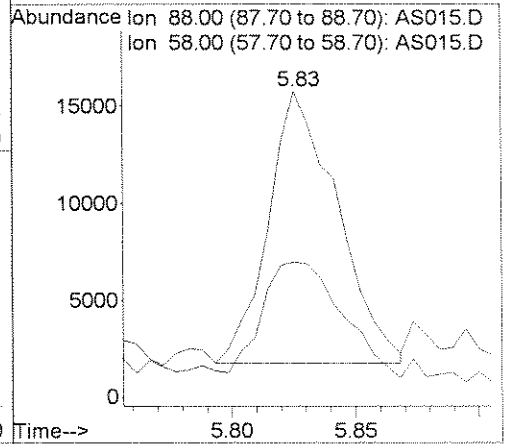
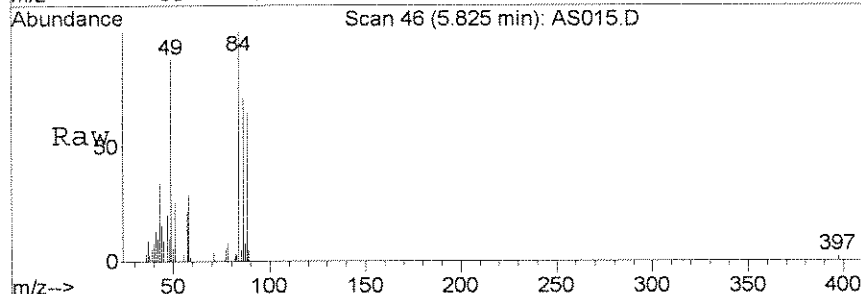


00426



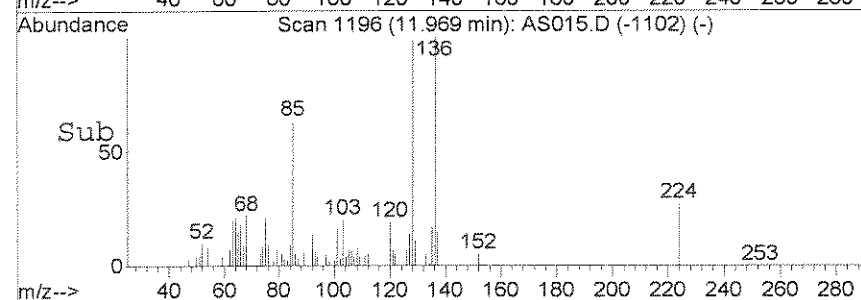
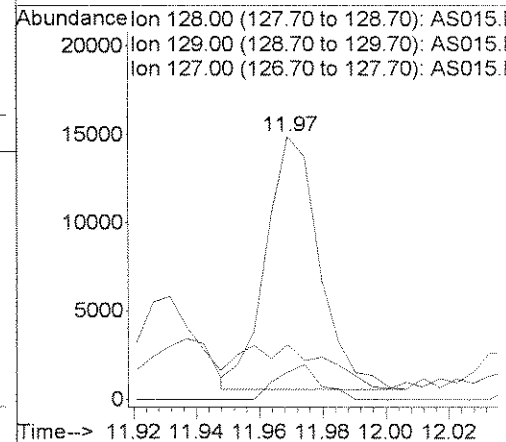
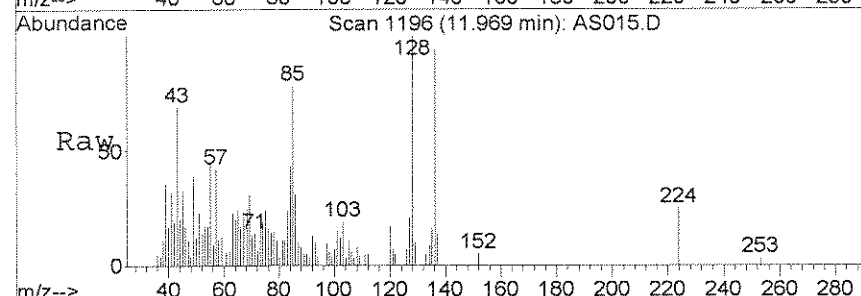
#2
 1,4-Dioxane
 Concen: 0.54 ppm
 RT: 5.83 min Scan# 46
 Delta R.T. 0.02 min
 Lab File: AS015.D
 Acq: 1 Jul 2008 3:17 pm

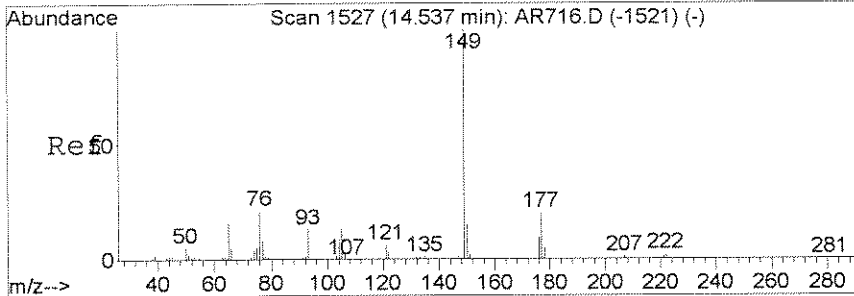
Tgt Ion	Resp	Lower	Upper
88	27198		
88	100		
58	42.1	38.6	78.6



#7
 Naphthalene
 Concen: 0.05 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS015.D
 Acq: 1 Jul 2008 3:17 pm

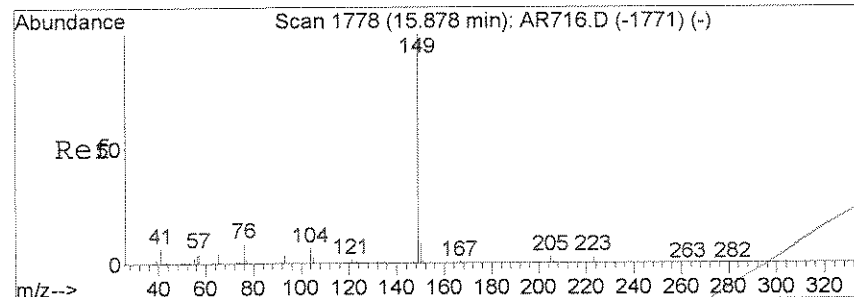
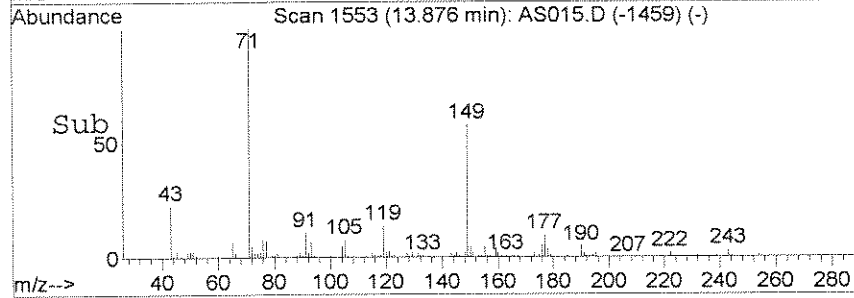
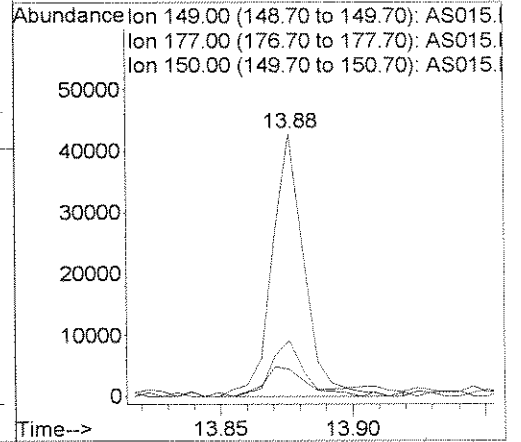
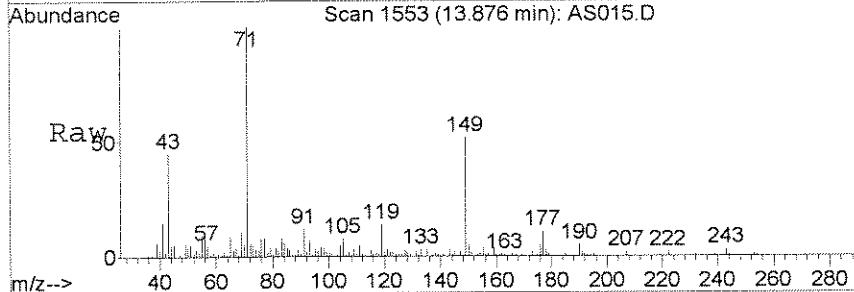
Tgt Ion	Resp	Lower	Upper
128	16916		
128	100		
129	11.1	0.0	31.0
127	8.6	0.0	32.4





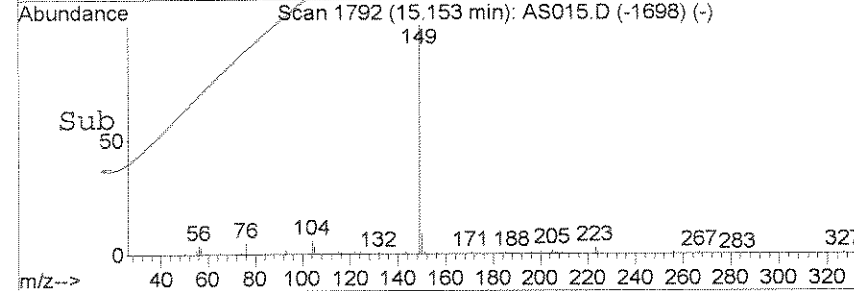
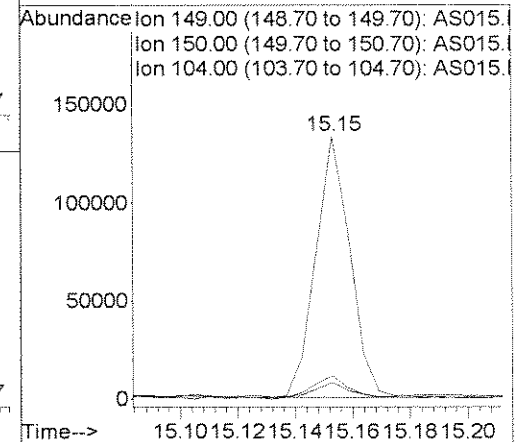
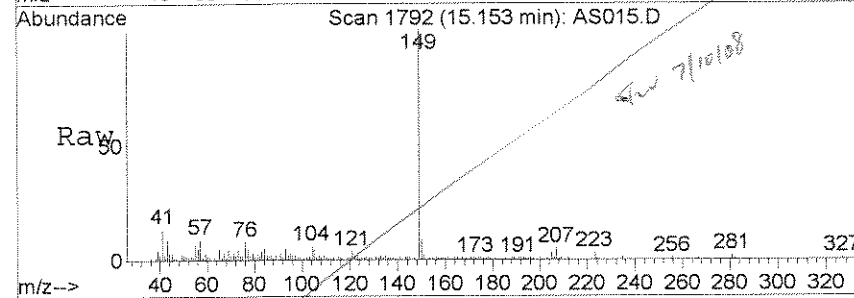
#17
 Diethylphthalate
 Concen: 0.15 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AS015.D
 Acq: 1 Jul 2008 3:17 pm

Tgt Ion	Resp	Lower	Upper
149	37318		
177	20.8	15.3	28.3
150	8.9	8.3	15.3



#24
 Di-n-butylphthalate
 Concen: 0.27 ppm
 RT: 15.15 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: AS015.D
 Acq: 1 Jul 2008 3:17 pm

Tgt Ion	Resp	Lower	Upper
149	110224		
150	8.2	6.4	12.0
104	5.8	4.4	8.2



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-94BX

Date Sampled : 06/23/08 12:00 Order #: 1111764 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 07/01/08			
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	0.19 J	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4-DIOXANE	2.0	0.41 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
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.047 J	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 %)	103	%
NITROBENZENE-d5	(45 - 135 %)	79	%
2-FLUOROBIPHENYL	(45 - 135 %)	93	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS027.D
 Acq On : 1 Jul 2008 10:15 pm
 Sample : 1111764 0.94
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA (Re)
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 22:41:48 2008

Vial: 17
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	95339	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	344073	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	108102	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	382685	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	313672	1.00	ppm	-0.01
33) d12-Perylene	0.00	264	0 ↓	0.00	ppm	-21.32

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	310296	1.57	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	78.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	372802	1.86	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	93.00%
28) SURR6,TERPHENYL-D14	16.25	244	547482	2.06	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	103.00%

Target Compounds

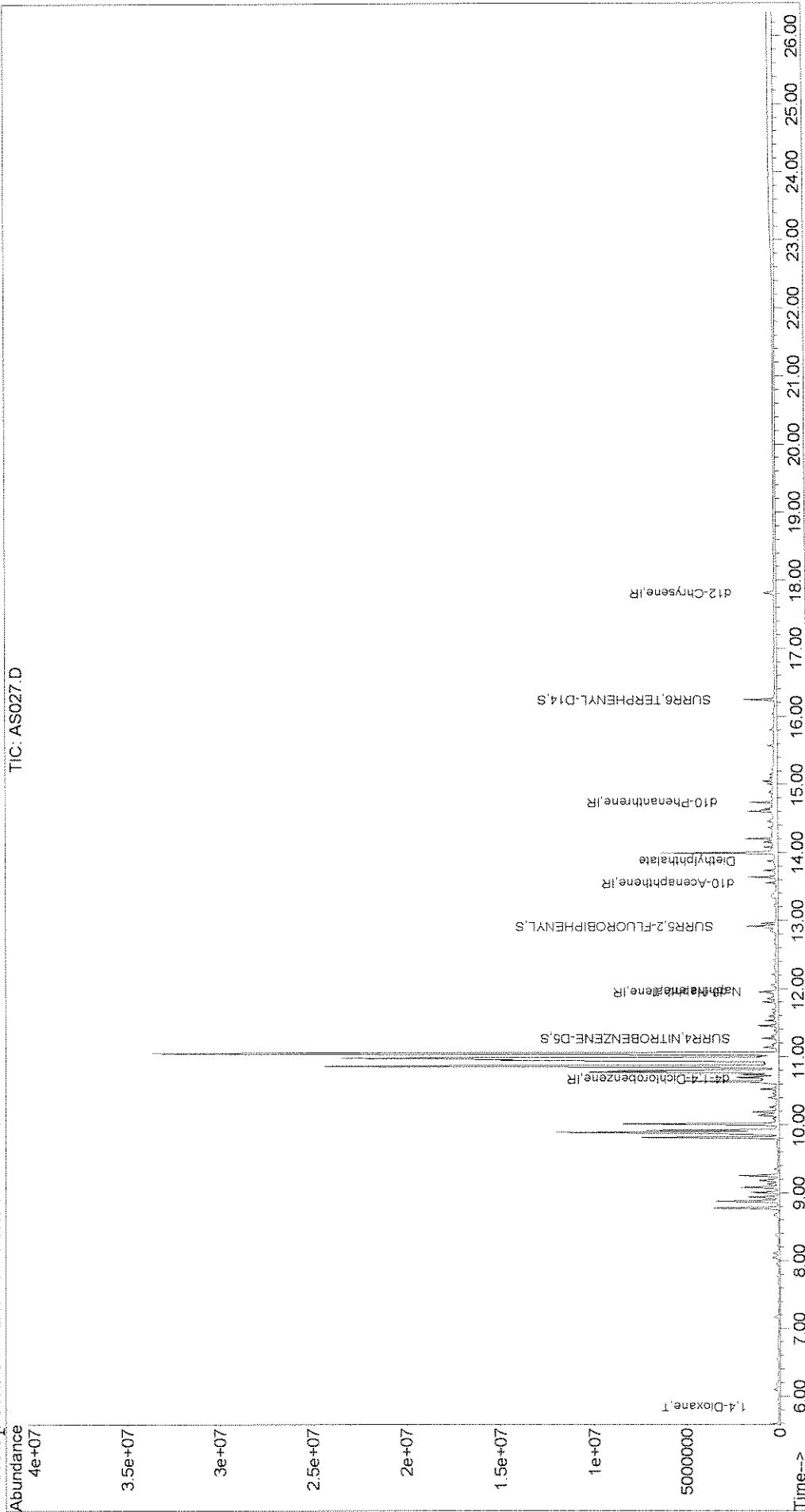
	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.85	88	24185	0.44	ppm	88
7) Naphthalene	11.97	128	17721	0.05	ppm	98
17) Diethylphthalate	13.88	149	35216	0.20	ppm	96

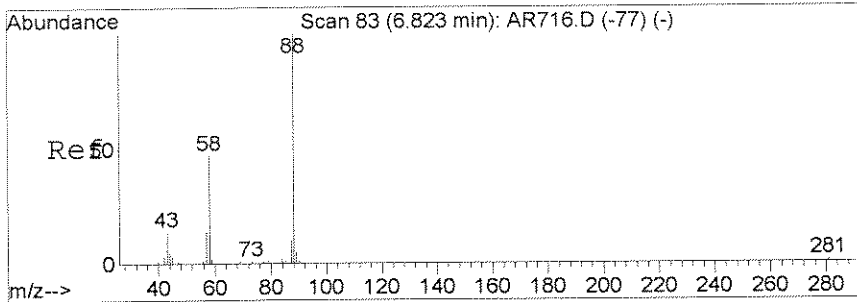
JW ✓
 00430

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS027.D Vial: 17
 Acq On : 1 Jul 2008 10:15 pm Operator: J.Wu
 Sample : 1111764 0.94 Inst : 5973C
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA Re Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 2 7:31 2008 Quant Results File: LVI0626.RES

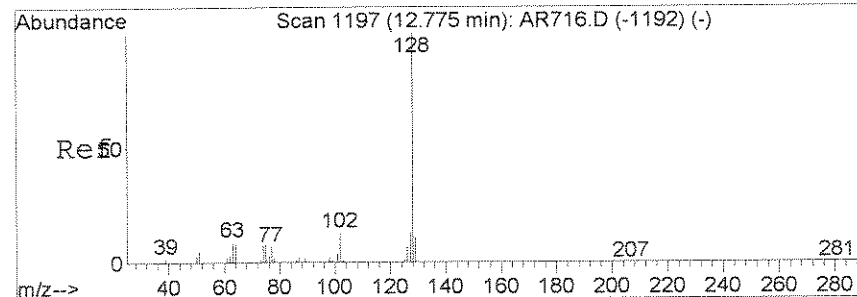
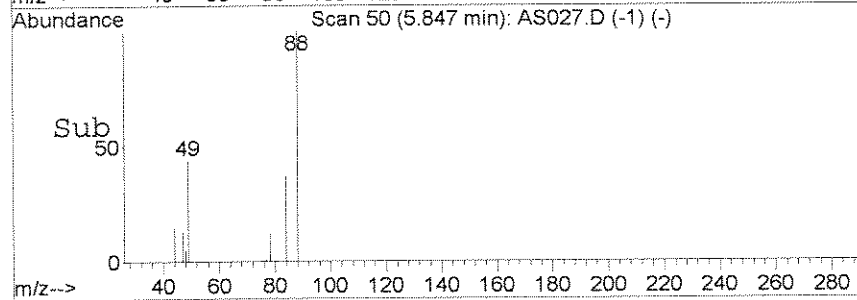
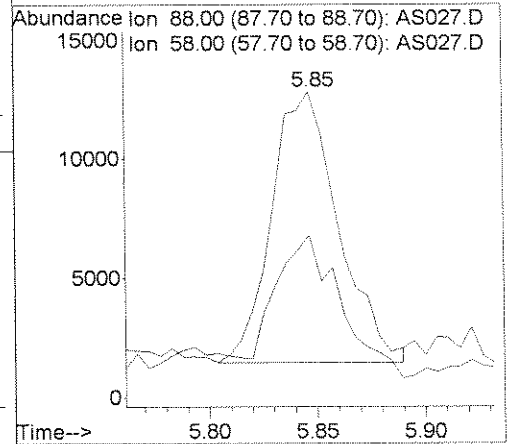
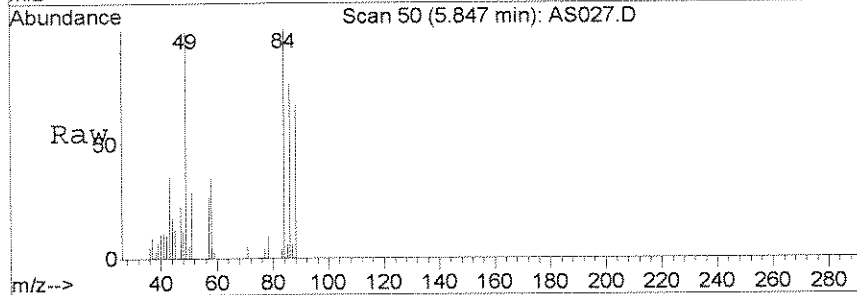
Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration





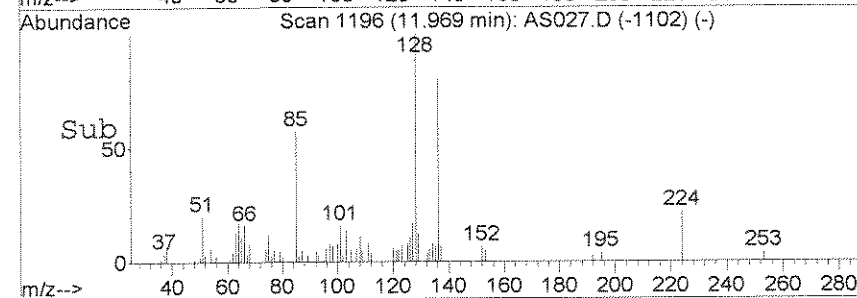
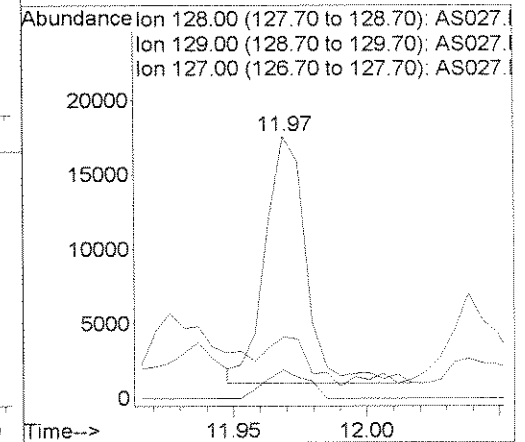
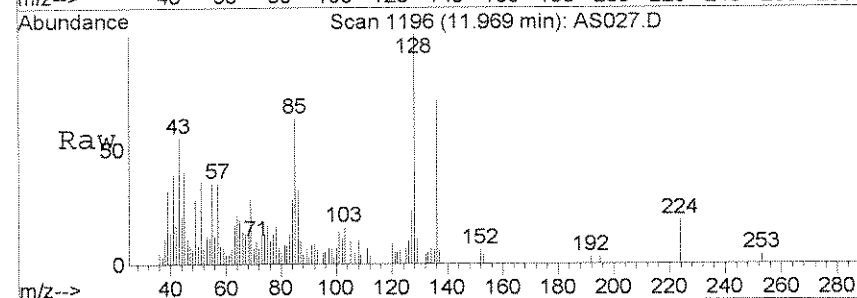
#2
 1,4-Dioxane
 Concen: 0.44 ppm
 RT: 5.85 min Scan# 50
 Delta R.T. 0.04 min
 Lab File: AS027.D
 Acq: 1 Jul 2008 10:15 pm

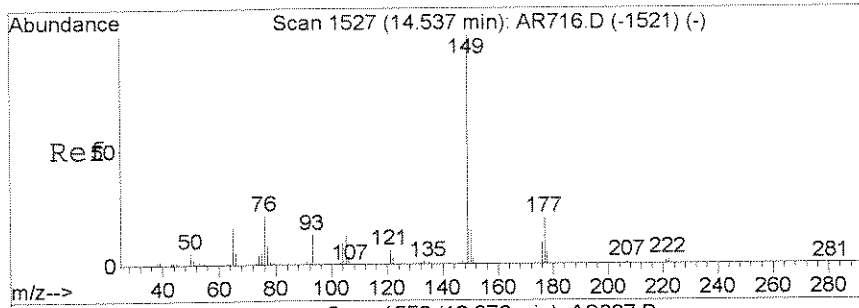
Tgt Ion	Resp	Lower	Upper
88	24185		
58	49.6	38.6	78.6



#7
 Naphthalene
 Concen: 0.05 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS027.D
 Acq: 1 Jul 2008 10:15 pm

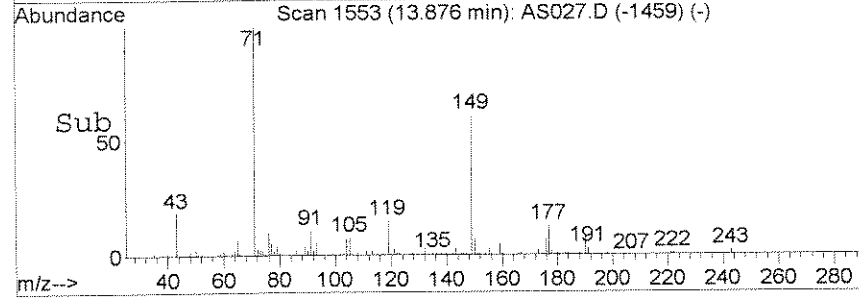
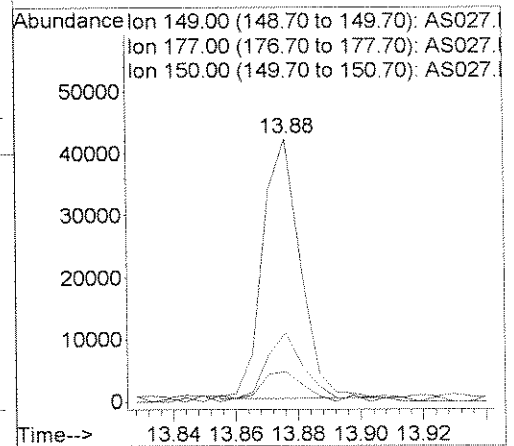
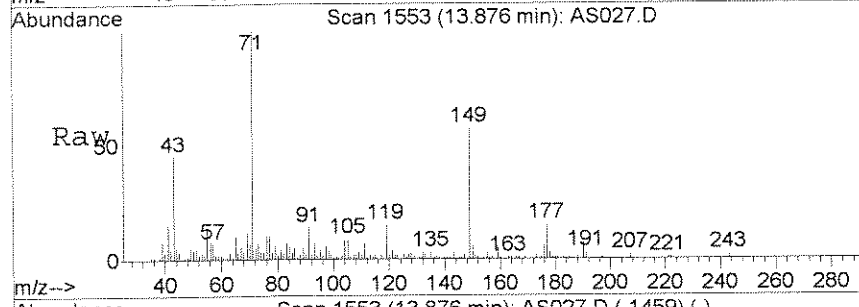
Tgt Ion	Resp	Lower	Upper
128	17721		
129	11.8	0.0	31.0
127	12.0	0.0	32.4





#17
 Diethylphthalate
 Concen: 0.20 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AS027.D
 Acq: 1 Jul 2008 10:15 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
177	24.7	15.3	28.3
150	11.5	8.3	15.3



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-62B

Date Sampled : 06/23/08 10:30 Order #: 1111765 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/26/08		
DATE ANALYZED	: 07/01/08		
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	4.7 U	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1, 4 -DIOXANE	2.0	0.95 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
HEXACHLORO BENZENE	0.20	0.19 U	UG/L
2 -METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.075 J	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 %)	80	%
NITROBENZENE-d5	(45 - 135 %)	63	%
2-FLUOROBIPHENYL	(45 - 135 %)	55	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\070108\AS016.D
 Acq On : 1 Jul 2008 3:52 pm
 Sample : 1111765 0.94
 Misc : 06/26/2008 1.0 ENSR 8270.NEVA
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 16:19:15 2008

Vial: 6
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Jul 01 15:36:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	118386	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	312474	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	162192	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	365547	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	323372	1.00	ppm	0.00
33) d12-Perylene	21.30	264	251198	1.00	ppm	-0.02

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	225262	1.26	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	63.00%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	298535	1.09	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	54.50%
28) SURR6,TERPHENYL-D14	16.25	244	437130	1.60	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	80.00%

Target Compounds

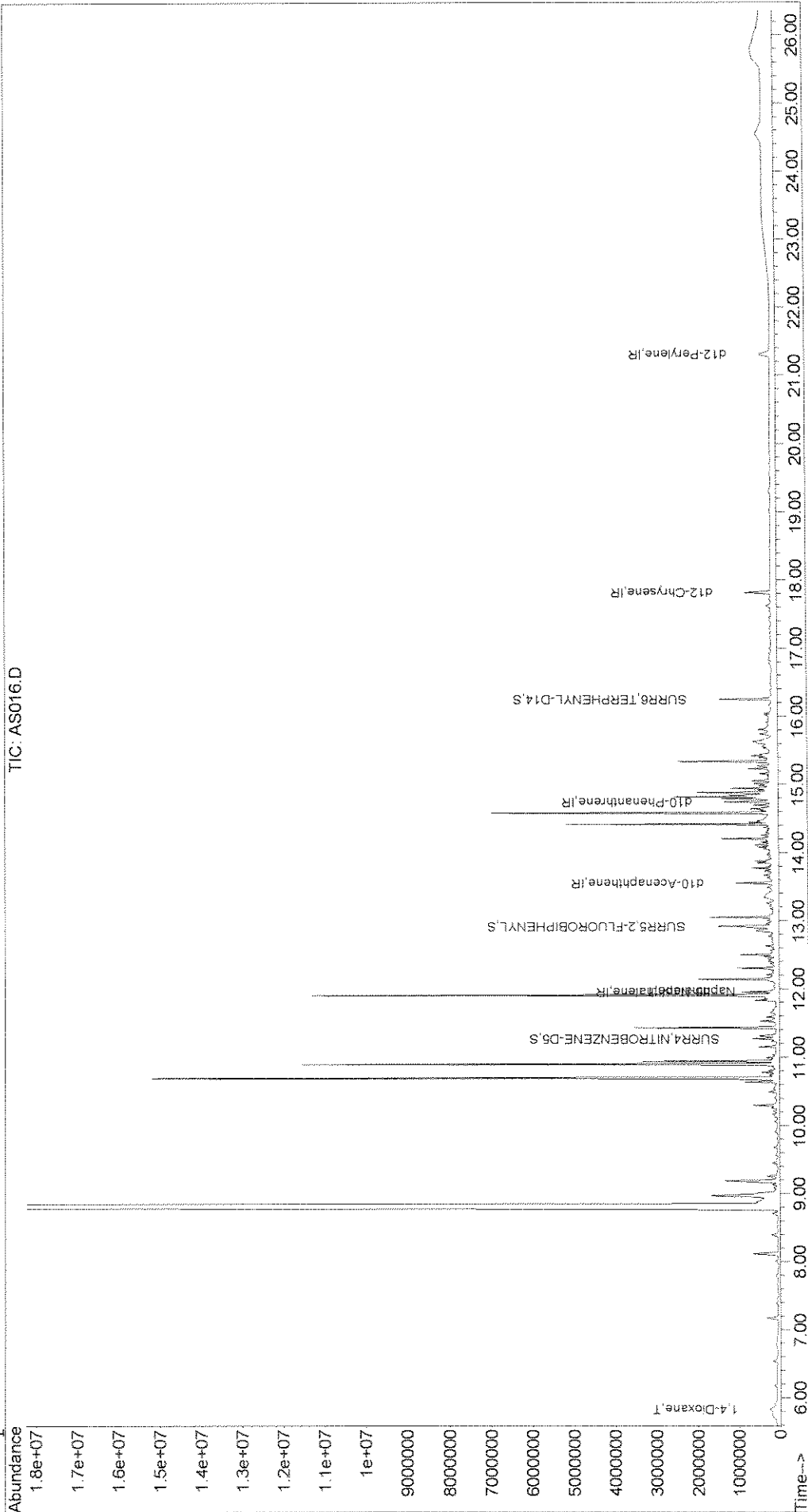
	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.83	88	68431	1.01	ppm	84
7) Naphthalene	11.97	128	24932	0.08	ppm	98

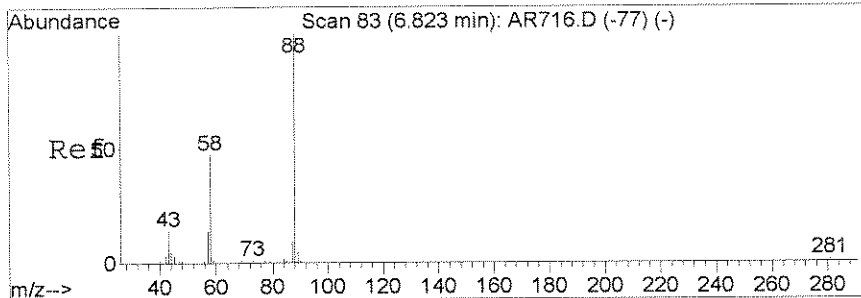
JW
 00435

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS016.D
Acq On : 1 Jul 2008 3:52 pm Vial: 6
Sample : 1111765 0.94 Operator: J.Wu
Misc : 06/26/2008 1.0 ENSR 8270.NEVA Inst : 5973C
Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 1 16:21 2008 Quant Results File: LVI0626.RES

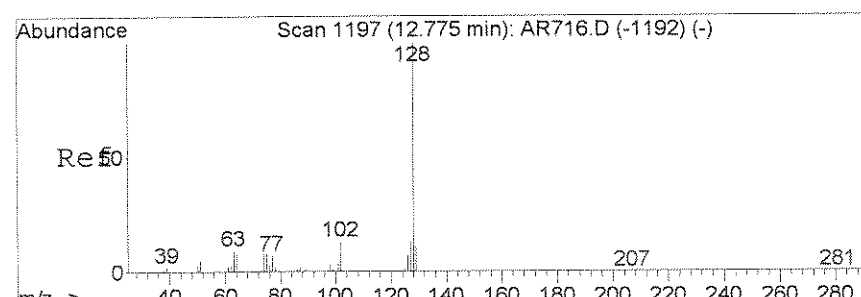
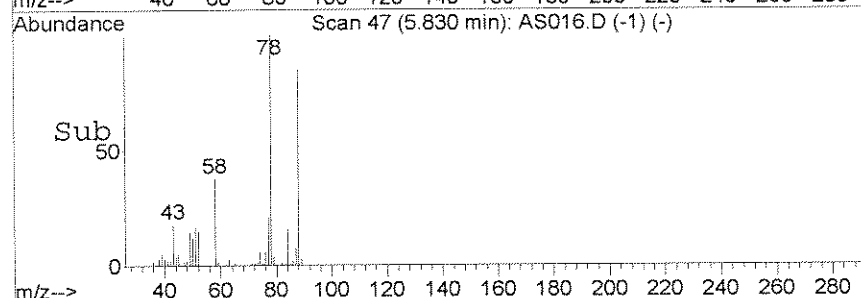
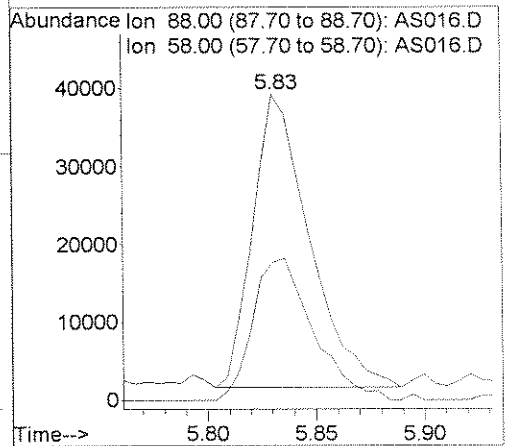
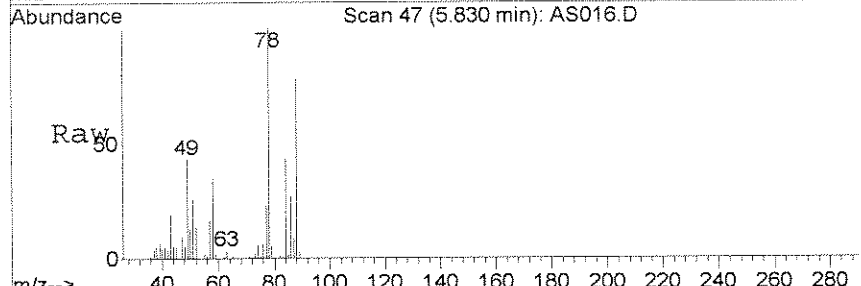
Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Tue Jul 01 15:36:13 2008
Response via : Initial Calibration





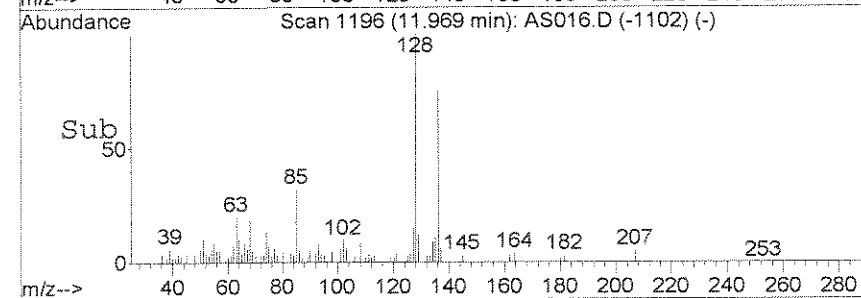
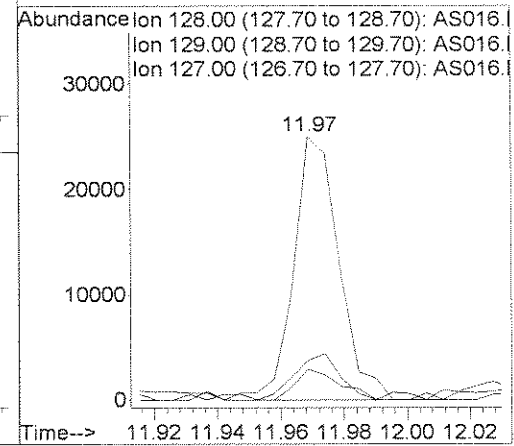
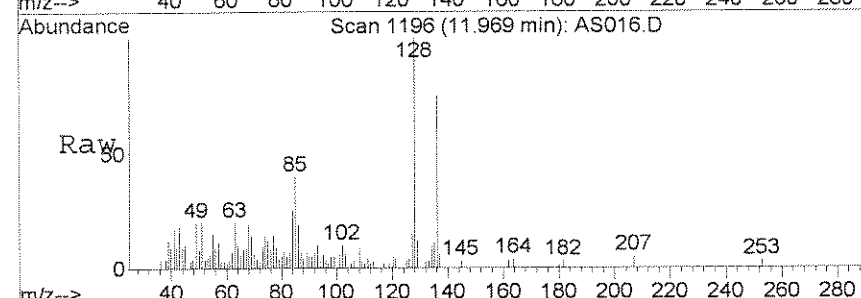
#2
 1,4-Dioxane
 Concen: 1.01 ppm
 RT: 5.83 min Scan# 47
 Delta R.T. 0.03 min
 Lab File: AS016.D
 Acq: 1 Jul 2008 3:52 pm

Tgt Ion	Resp	Lower	Upper
88	68431		
58	46.9	38.6	78.6



#7
 Naphthalene
 Concen: 0.08 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AS016.D
 Acq: 1 Jul 2008 3:52 pm

Tgt Ion	Resp	Lower	Upper
128	24932		
129	10.6	0.0	31.0
127	13.8	0.0	32.4



SEMIVOLATILE ORGANICS

STANDARDS DATA

Response Factor Report 5973C

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration

Calibration Files

0.1 =AR928.D 0.2 =AR929.D 0.5 =AR930.D
 1.0 =AR931.D 2.0 =AR932.D 3.0 =AR933.D
 4.0=AR934 10.0=AR936
 5.0=AR935

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	0.611	0.656	0.584	0.534	0.563	0.531	0.574	7.14
3) Pyridine		1.745	1.930	1.882	1.989	1.842	1.903	5.04
4) IR d8-Naphthalene	-----ISTD-----							
5) S SURR4,NITROBENZ	0.504	0.543	0.559	0.549	0.611	0.574	0.573	6.72
6) T Nitrobenzene	0.577	0.595	0.591	0.571	0.614	0.585	0.595	2.75
7) T Naphthalene	0.996	1.062	1.035	1.001	1.065	1.036	1.028	3.95
8) T 2-Methylnaphtha	0.672	0.680	0.646	0.644	0.703	0.685	0.687	4.44
9) T 1-Methylnaphtha	0.652	0.633	0.651	0.618	0.693	0.668	0.668	4.63
10) IR d10-Acenaphthene	-----ISTD-----							
11) S SURR5,2-FLUOROB		1.325	1.359	1.396	1.727	1.945	1.685	19.03 LR
12) T Acenaphthylene		1.597	1.753	1.825	2.263	2.554	2.191	21.12 LR
13) Dimethyl phthal			1.223	1.154	1.487	1.570	1.503	15.46 LR
14) T Acenaphthene		1.154	1.153	1.179	1.447	1.591	1.410	17.36 LR
15) T Dibenzofuran		1.680	1.725	1.715	2.190	2.449	2.125	19.35 LR
16) T Fluorene	1.019	1.106	1.195	1.266	1.554	1.755	1.451	23.85 LR
17) Diethylphthalat				1.231	1.576	1.768	1.640	14.14
18) IR d10-Phenanthrene	-----ISTD-----							
19) T Hexachlorobenze	0.239	0.257	0.266	0.242	0.260	0.256	0.259	5.01
20) T Phenanthrene	1.030	1.003	1.033	1.008	1.083	1.048	1.019	5.57
21) T Anthracene	0.883	0.929	0.986	0.958	1.050	1.040	0.985	7.18
22) T Carbazole	0.596	0.737	0.784	0.785	0.807	0.764	0.724	11.03
23) Octachlorostyre	0.042	0.056	0.062	0.060	0.066	0.063	0.061	14.10
24) Di-n-butylphtha		1.016	1.020	1.018	1.165	1.138	1.074	8.33
25) T Fluoranthene	0.944	0.970	1.036	0.987	1.131	1.104	1.045	6.91
26) IR d12-Chrysene	-----ISTD-----							
27) T Pyrene	1.094	1.184	1.174	1.120	1.260	1.176	1.171	5.87
28) S SURR6,TERPHENYL	0.865	0.800	0.809	0.818	0.902	0.845	0.846	4.23
29) Butylbenzylphth	0.481	0.401	0.433	0.459	0.555	0.528	0.506	12.67
30) T bis(2-Ethylhexy			0.607	0.659	0.783	0.737	0.724	9.91
31) T Benzo(a)anthrac	0.953	1.013	1.050	1.071	1.188	1.100	1.091	7.07
32) T Chrysene	1.120	1.141	1.118	1.072	1.186	1.081	1.119	3.26
33) IR d12-Perylene	-----ISTD-----							
34) Di-n-octylphtha		0.771	0.927	1.071	1.343	1.359	1.274	24.93 LR
35) T Benzo(b)Fluoran	1.234	1.313	1.370	1.372	1.475	1.459	1.420	7.31
36) T Benzo(k)fluoran	1.147	1.235	1.258	1.345	1.466	1.356	1.372	10.05
37) T Benzo(a)pyrene		0.917	1.022	1.114	1.265	1.229	1.203	14.05
38) T Indeno(1,2,3-cd		0.956	1.152	1.330	1.521	1.448	1.361	16.99 LR

Response Factor Report 5973C

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration

Calibration Files

0.1 =AR928.D 0.2 =AR929.D 0.5 =AR930.D
 1.0 =AR931.D 2.0 =AR932.D 3.0 =AR933.D

Compound		0.1	0.2	0.5	1.0	2.0	3.0	Avg	%RSD
39)	T Dibenz(a,h)anth		0.641	0.932	1.076	1.287	1.239	1.132	23.84
40)	T Benzo(g,h,i)per	0.882	1.074	1.184	1.248	1.323	1.251	1.190	12.23

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR932.D
 Acq On : 26 Jun 2008 7:50 pm
 Sample : INITIAL CALIBRATION
 Misc : 2.0/4.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P

Vial: 6
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	0.574	0.563	1.9	100	0.00
3	Pyridine	1.903	1.989	-4.5	100	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	100	0.00
5	S SURR4,NITROBENZENE-D5	0.573	0.611	-6.6	100	0.00
6	T Nitrobenzene	0.595	0.614	-3.2	100	0.00
7	T Naphthalene	1.028	1.065	-3.6	100	0.00
8	T 2-Methylnaphthalene	0.687	0.703	-2.3	100	0.00
9	T 1-Methylnaphthalene	0.668	0.693	-3.7	100	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	100	0.00
11	S SURR5,2-FLUOROBIPHENYL	1.685	1.727	-2.5	100	0.00
12	T Acenaphthylene	2.191	2.263	-3.3	100	0.00
13	Dimethyl phthalate	1.503	1.487	1.1	100	0.00
14	T Acenaphthene	1.410	1.447	-2.6	100	0.00
15	T Dibenzofuran	2.125	2.190	-3.1	100	0.00
16	T Fluorene	1.451	1.554	-7.1	100	0.00
17	Diethylphthalate	1.640	1.576	3.9	100	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	100	0.00
19	T Hexachlorobenzene	0.259	0.260	-0.4	100	0.00
20	T Phenanthrene	1.019	1.083	-6.3	100	0.00
21	T Anthracene	0.985	1.050	-6.6	100	0.00
22	T Carbazole	0.724	0.807	-11.5	100	0.00
23	Octachlorostyrene	0.061	0.066	-8.2	100	0.00
24	Di-n-butylphthalate	1.074	1.165	-8.5	100	0.00
25	T Fluoranthene	1.045	1.131	-8.2	100	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	100	0.00
27	T Pyrene	1.171	1.260	-7.6	100	0.00
28	S SURR6,TERPHENYL-D14	0.846	0.902	-6.6	100	0.00
29	Butylbenzylphthalate	0.506	0.555	-9.7	100	0.00
30	T bis(2-Ethylhexyl)phthalate	0.724	0.783	-8.1	100	0.00
31	T Benzo(a)anthracene	1.091	1.188	-8.9	100	0.00
32	T Chrysene	1.119	1.186	-6.0	100	0.00
33	IR d12-Perylene	1.000	1.000	0.0	100	0.00
34	T Di-n-octylphthalate	1.274	1.343	-5.4	100	0.00
35	T Benzo(b)Fluoranthene	1.420	1.475	-3.9	100	0.00
36	T Benzo(k)fluoranthene	1.372	1.466	-6.9	100	0.00

(#) = Out of Range

AR932.D LVI0626.M

Fri Jun 27 09:35:18 2008

JW

Page 1

00441

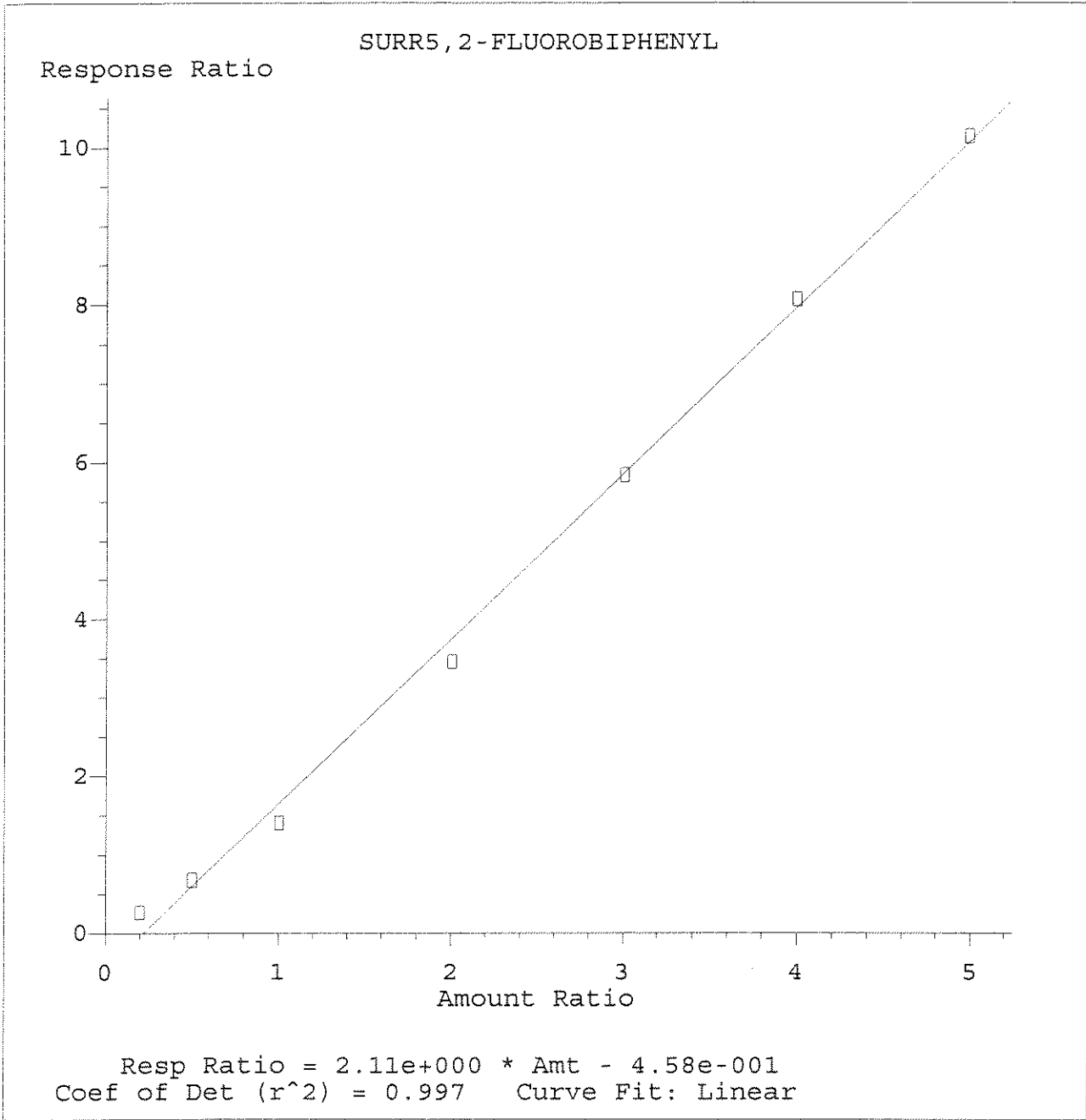
Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR932.D Vial: 6
 Acq On : 26 Jun 2008 7:50 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

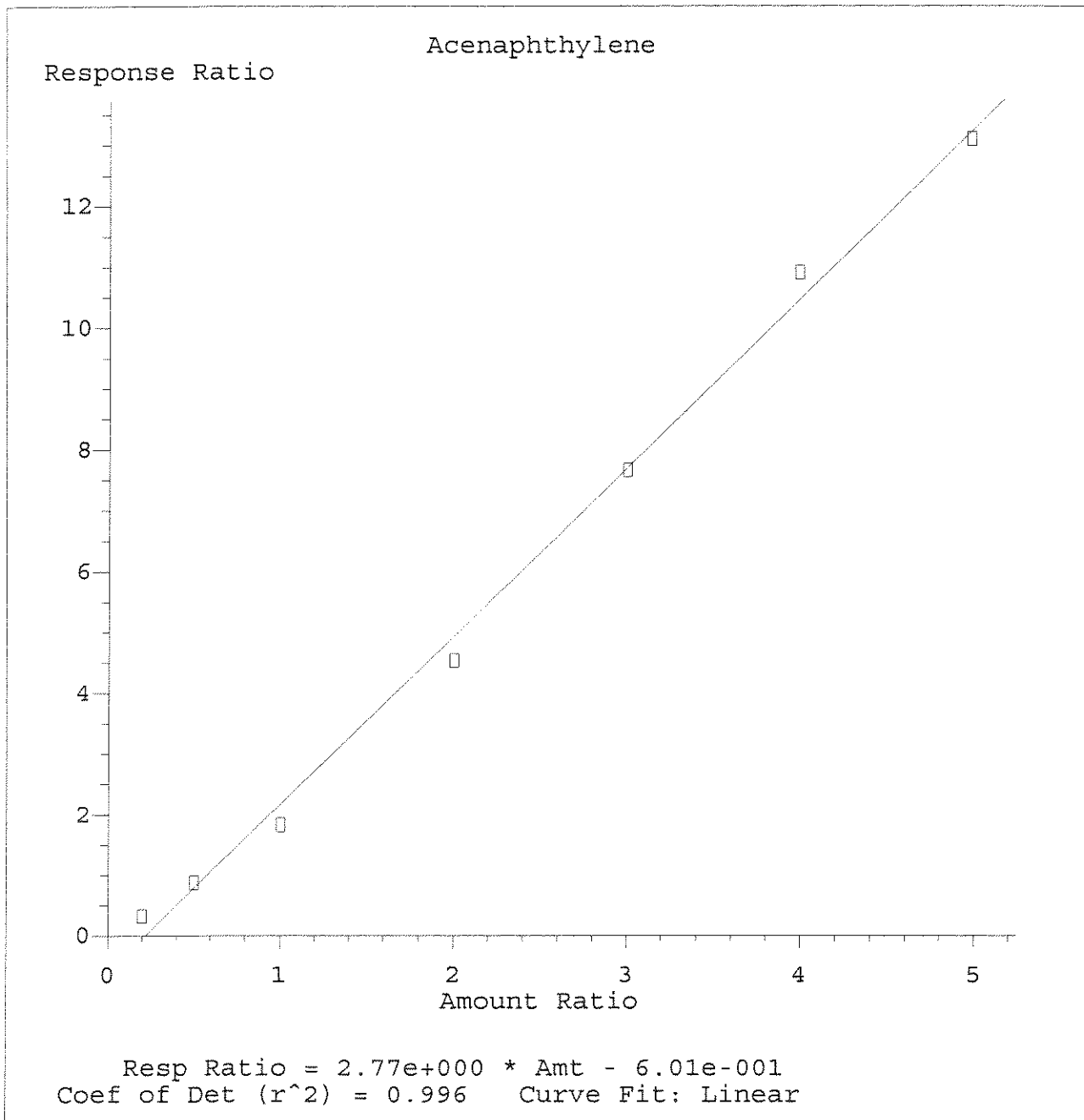
Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

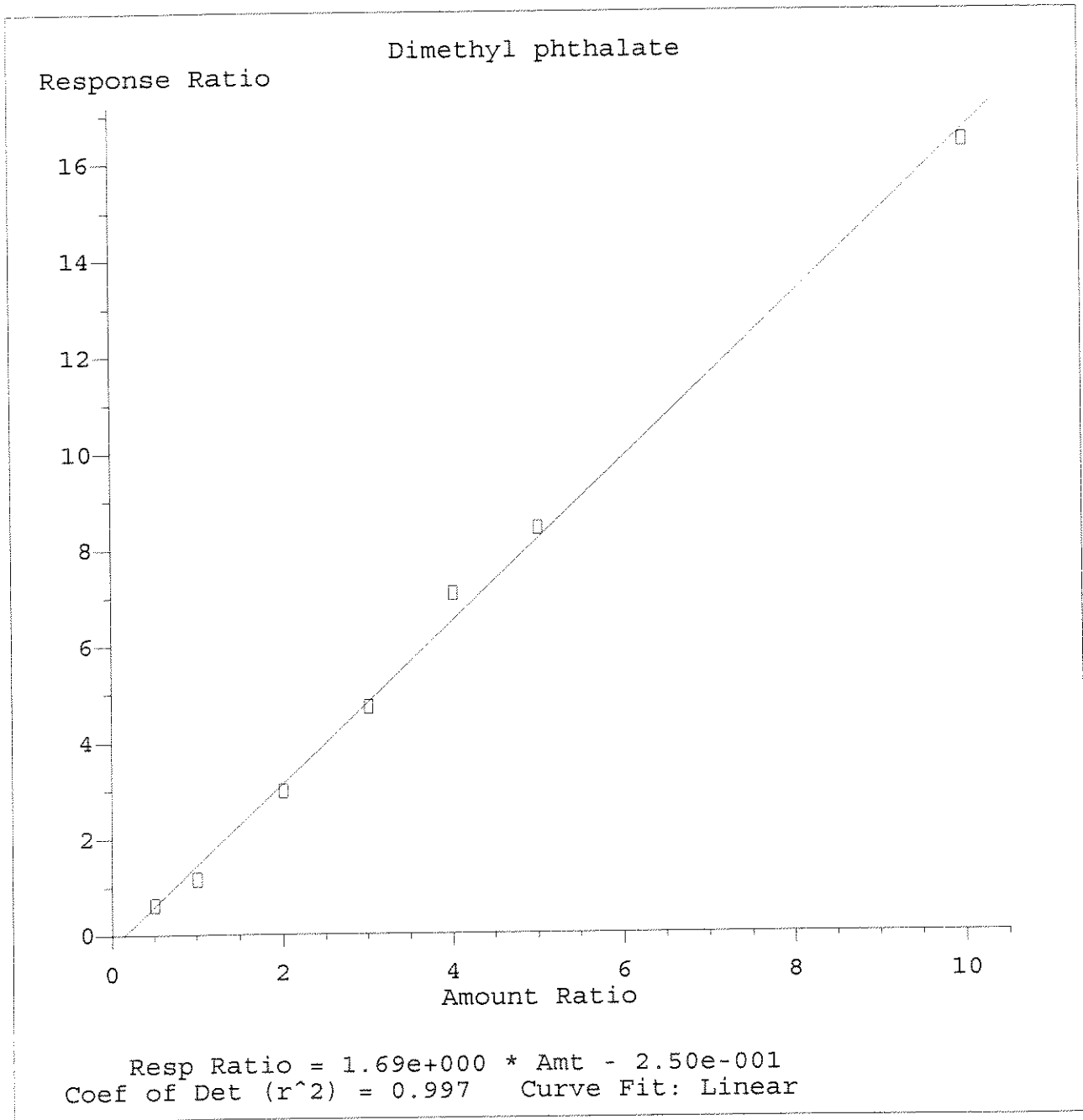
	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37 T	Benzo(a)pyrene	1.203	1.265	-5.2	100	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.361	1.521	-11.8	100	0.00
39 T	Dibenz(a,h)anthracene	1.132	1.287	-13.7	100	0.00
40 T	Benzo(g,h,i)perylene	1.190	1.323	-11.2	100	0.00



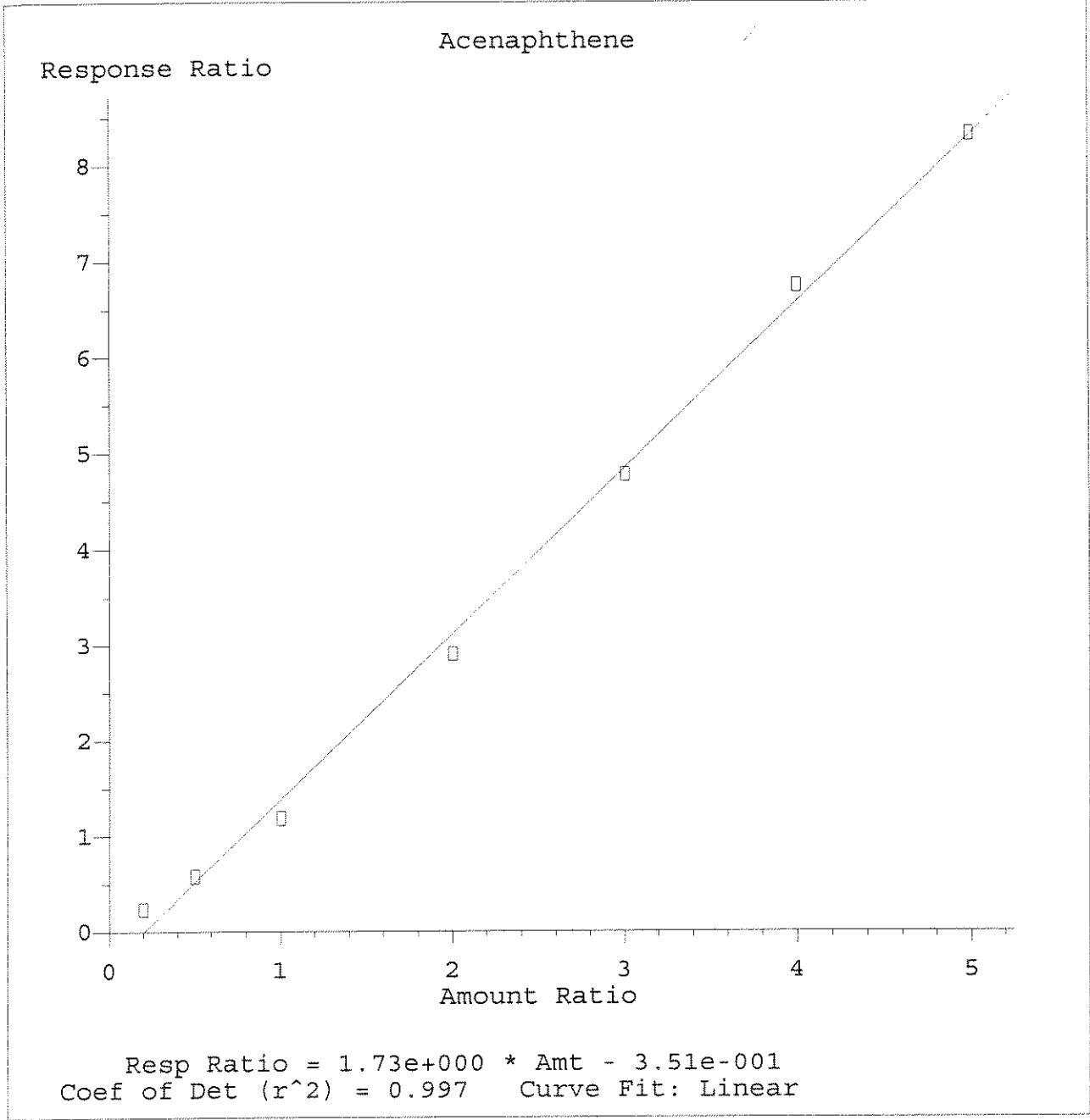
Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:02:35 2008



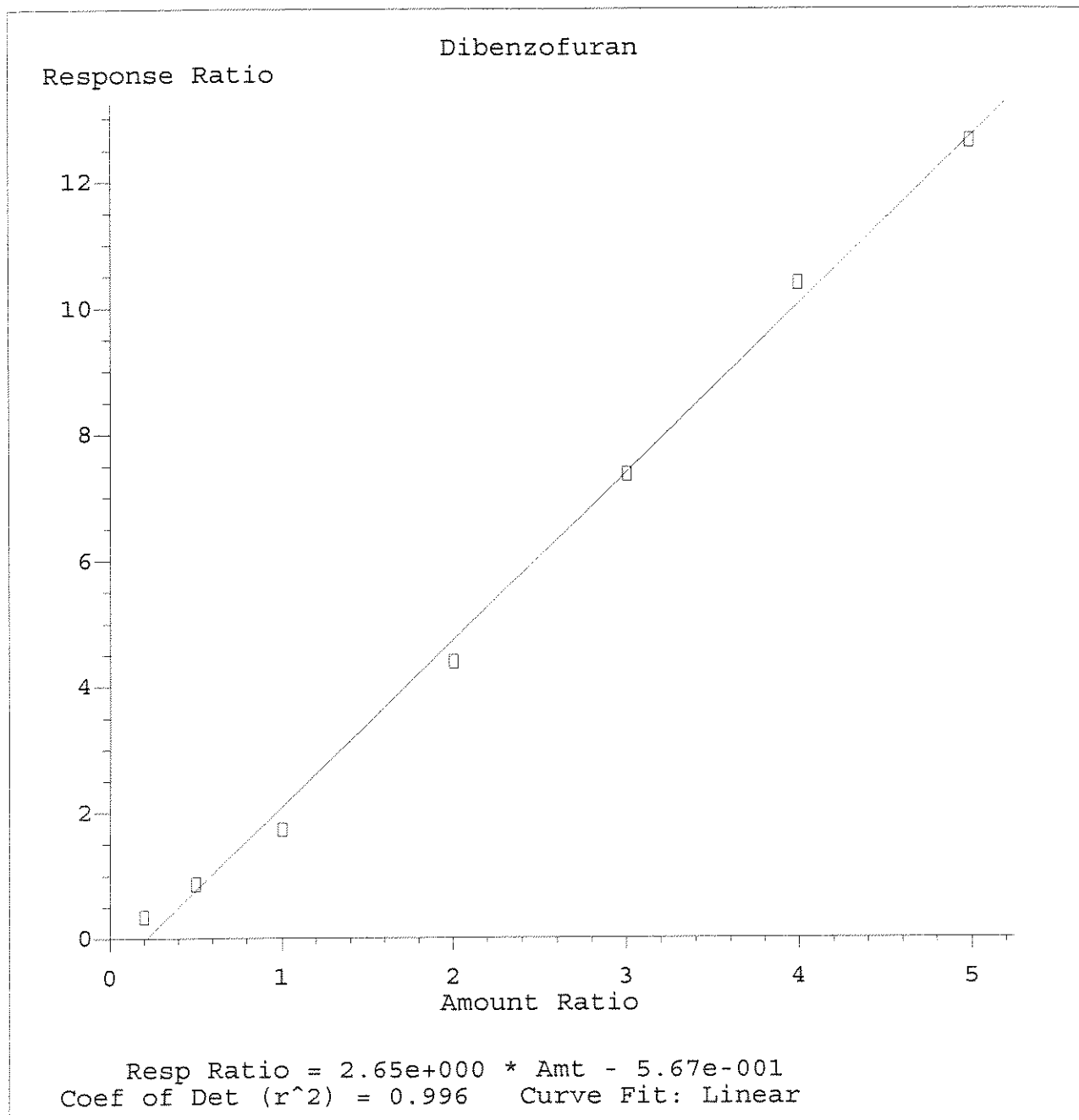
Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:02:35 2008



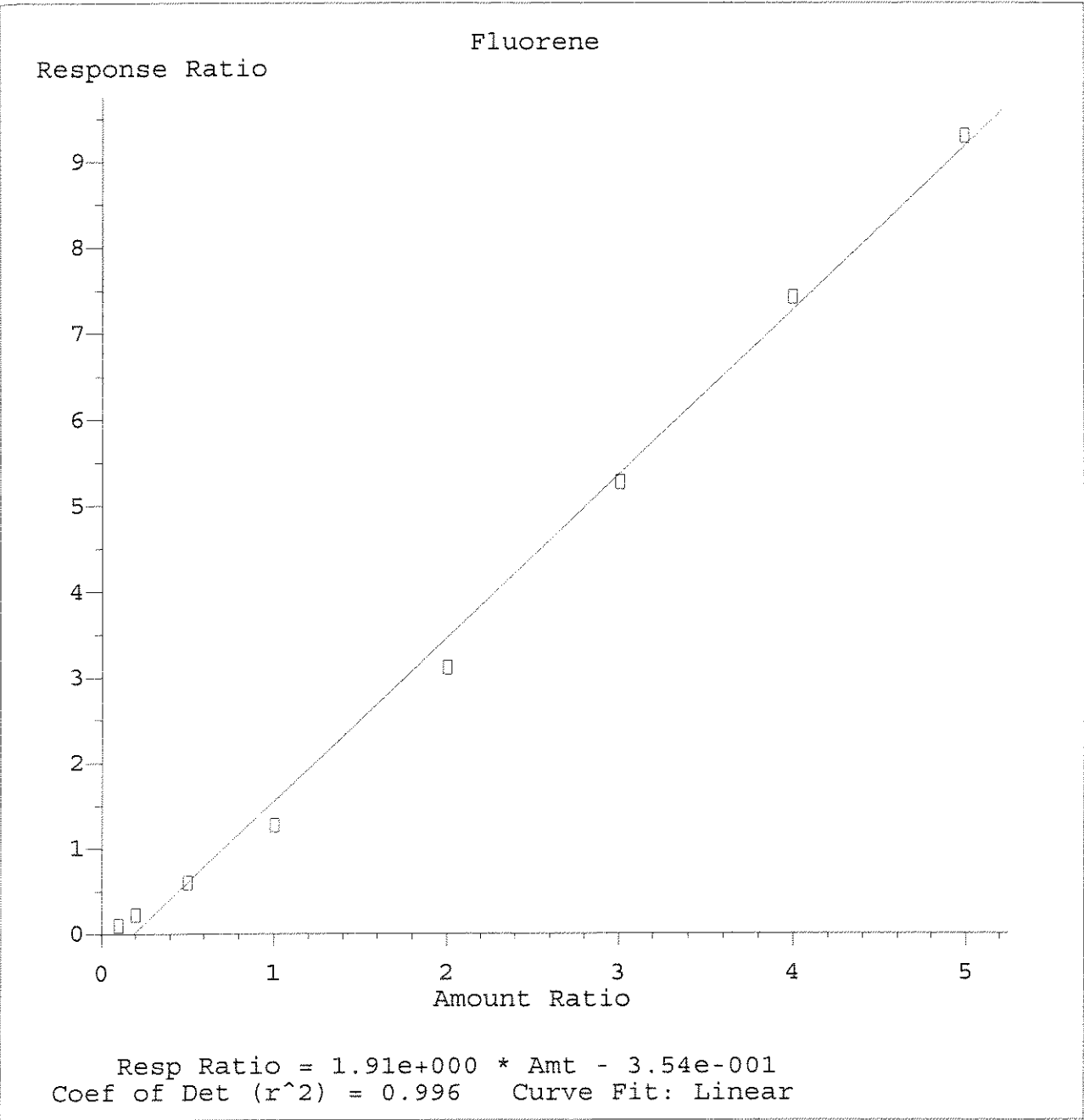
Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:08:29 2008



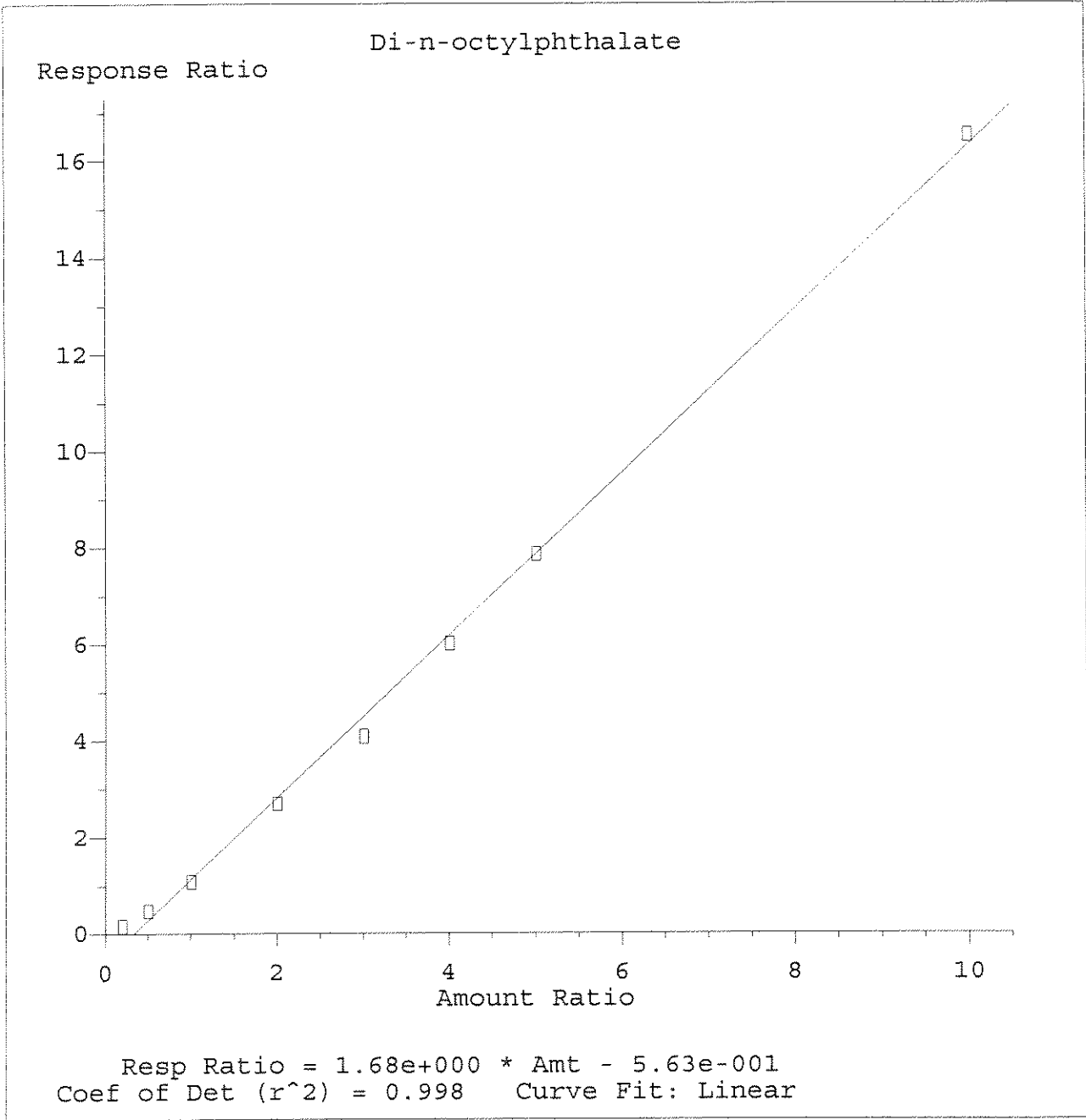
Method Name: J:\ACQDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:11:31 2008



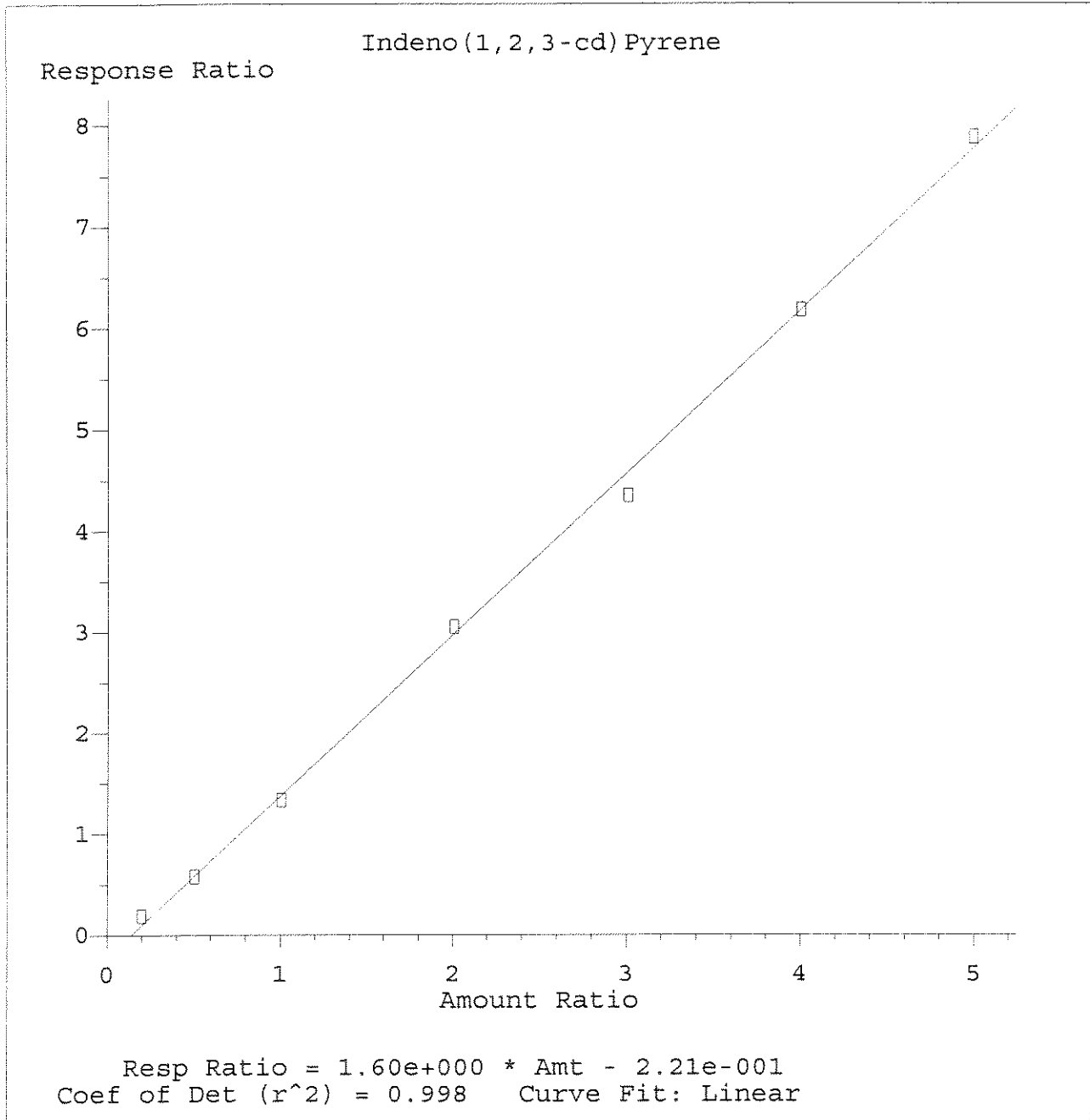
Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:15:06 2008



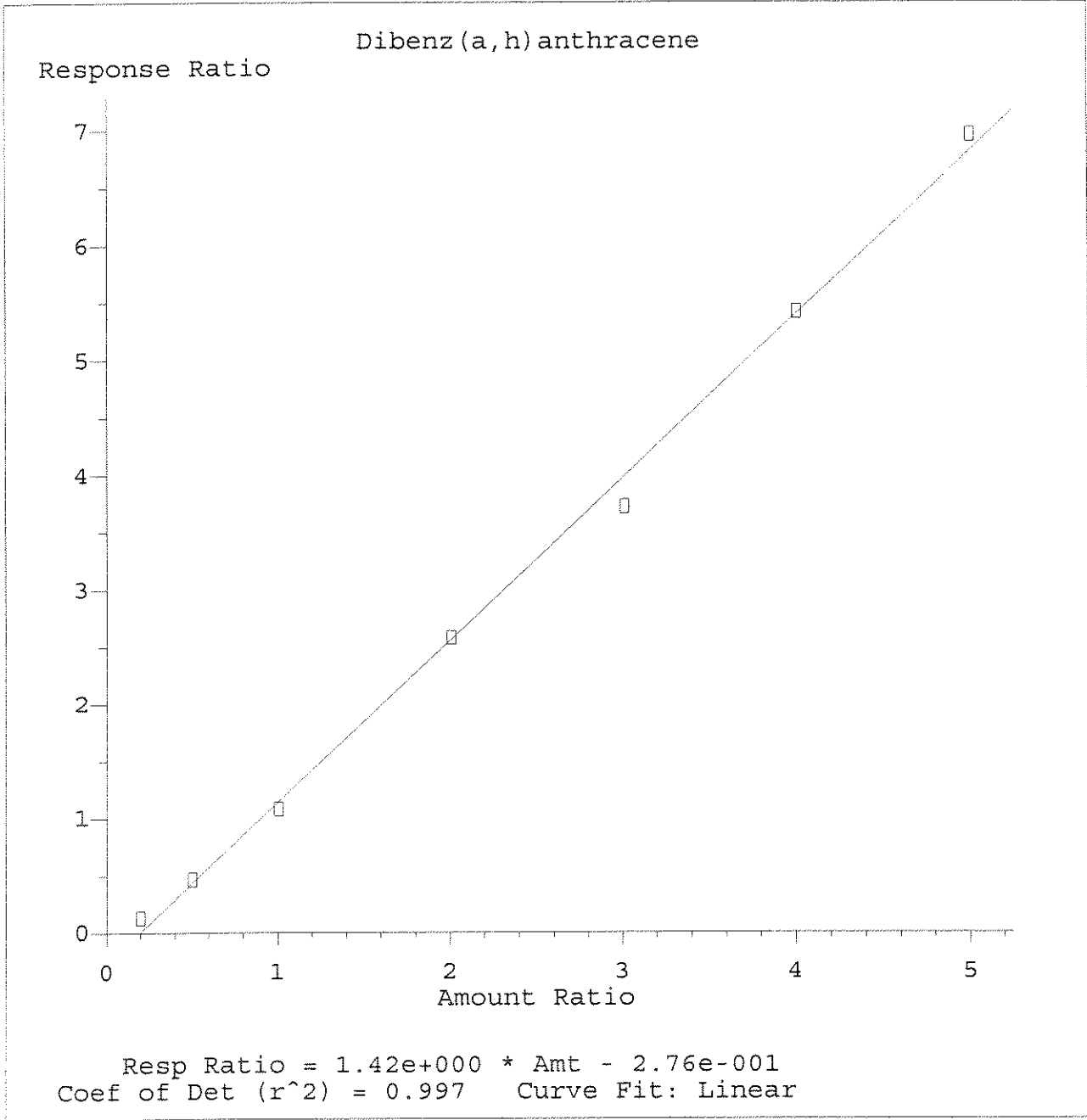
Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:16:40 2008



Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:25:39 2008



Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:29:00 2008



Method Name: J:\ACQUDATA\5973C\METHODS\LVI0626.M
Calibration Table Last Updated: Fri Jun 27 09:30:45 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR927.D Vial: 1
 Acq On : 26 Jun 2008 4:56 pm Operator: J.Wu
 Sample : BLK Inst : 5973C
 Misc : 06/26/2008 1:0 CAS 8270,LL BLK Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 09:49:59 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	106665	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	413931	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	225133	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	374210	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	334246	1.00	ppm	0.00
33) d12-Perylene	21.31	264	241046	1.00	ppm	0.00

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.48	82	186	0.00	ppm	0.21
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

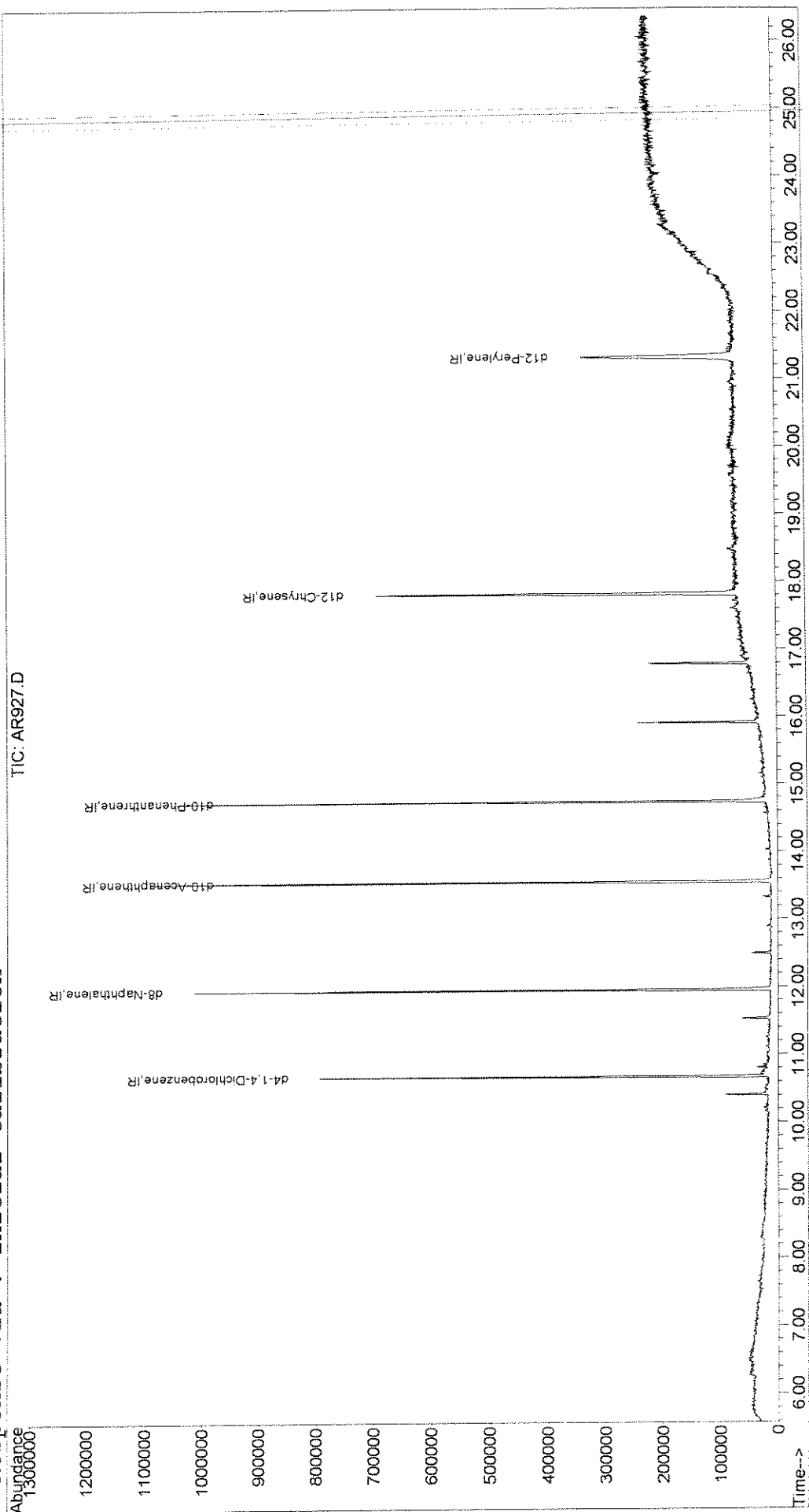
Qvalue

JW
00452

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR927.D Vial: 1
Acq On : 26 Jun 2008 4:56 pm Operator: J.Wu
Sample : BLK Inst : 5973C
Misc : 06/26/2008 1.0 CAS 8270,LL BLK Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 9:50 2008 Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 09:31:03 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR928.D Vial: 2
 Acq On : 26 Jun 2008 5:31 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.1/0.2 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:43:25 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:43:11 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	81030	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	303431	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	167003	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	277628	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	247257	1.00	ppm	0.00
33) d12-Perylene	21.31	264	176264	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	15302	0.10	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	5.00%#
11) SURR5,2-FLUOROBIPHENYL	12.92	172	20256	0.10	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	5.00%#
28) SURR6,TERPHENYL-D14	16.25	244	21391	0.11	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	5.50%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	9894m	0.19	ppm	
6) Nitrobenzene	11.29	77	17493	0.11	ppm	95
7) Naphthalene	11.97	128	30217	0.11	ppm	99
8) 2-Methylnaphthalene	12.60	142	20405	0.11	ppm	85
9) 1-Methylnaphthalene	12.70	142	19796	0.11	ppm	90
12) Acenaphthylene	13.42	152	26939	0.10	ppm	92
13) Dimethyl phthalate	13.28	163	18673	0.10	ppm	98
14) Acenaphthene	13.58	153	17655	0.10	ppm	97
15) Dibenzofuran	13.72	168	25763	0.10	ppm	97
16) Fluorene	14.00	166	17024	0.09	ppm	98
17) Diethylphthalate	13.88	149	16980	0.09	ppm	96
19) Hexachlorobenzene	14.49	284	6647	0.10	ppm	93
20) Phenanthrene	14.76	178	28595	0.11	ppm	97
21) Anthracene	14.80	178	24528	0.10	ppm	90
22) Carbazole	14.91	167	16540	0.08	ppm	94
23) Octachlorostyrene	15.70	380	1165	0.07	ppm	94
24) Di-n-butylphthalate	15.15	149	39950	0.15	ppm	98
25) Fluoranthene	15.88	202	26198	0.10	ppm	96
27) Pyrene	16.15	202	27057	0.10	ppm	98
29) Butylbenzylphthalate	16.85	149	11896	0.11	ppm	82
30) bis(2-Ethylhexyl)phthalate	17.72	149	26532	0.17	ppm	99
31) Benzo(a)anthracene	17.78	228	23555	0.09	ppm	87
32) Chrysene	17.86	228	27700	0.11	ppm	93
34) Di-n-octylphthalate	18.96	149	13991	0.07	ppm	92
35) Benzo(b)Fluoranthene	20.17	252	21748	0.10	ppm	89
36) Benzo(k)fluoranthene	20.24	252	20221	0.09	ppm	80

(#) = qualifier out of range (m) = manual integration
 AR928.D LVI0626.M Fri Jun 27 09:57:15 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR928.D Vial: 2
 Acq On : 26 Jun 2008 5:31 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.1/0.2 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:43:25 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:43:11 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

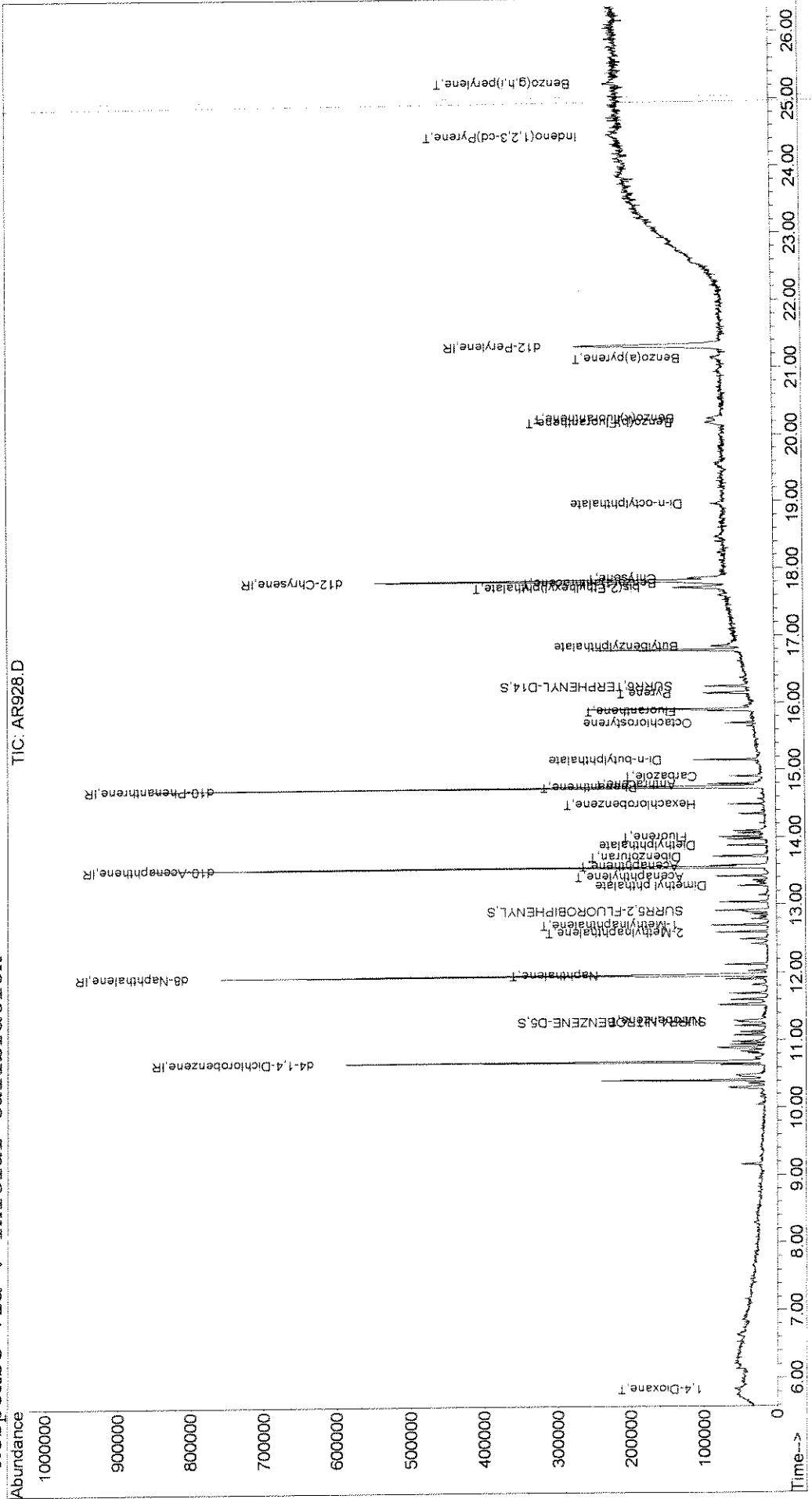
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Benzo(a)pyrene	21.13	252	14414	0.08	ppm	82
38) Indeno(1,2,3-cd)Pyrene	24.43	276	12905	0.06	ppm	87
40) Benzo(g,h,i)perylene	25.23	276	15555	0.08	ppm	82

00455

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR928.D Vial: 2
 Acq On : 26 Jun 2008 5:31 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.1/0.2 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 9:56 2008 Quant Results File: LVI0626.RE5

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



00455

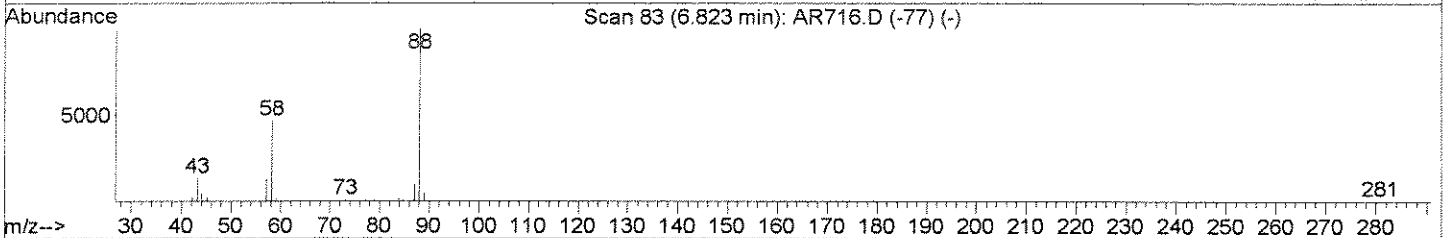
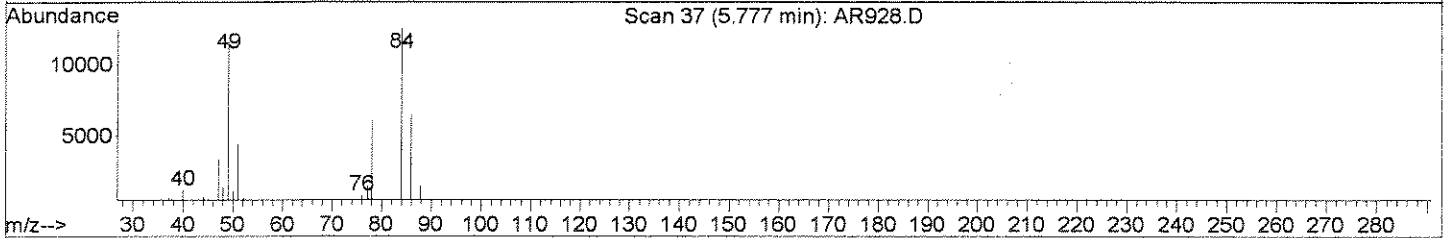
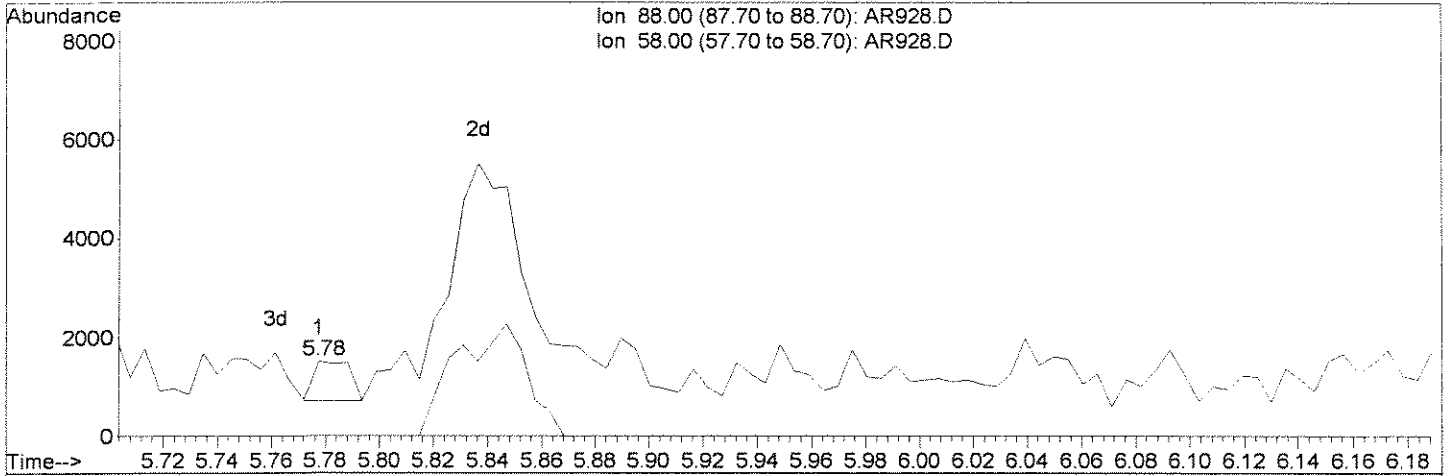
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR928.D
 Acq On : 26 Jun 2008 5:31 pm
 Sample : INITIAL CALIBRATION
 Misc : 0.1/0.2 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:40 2008

Vial: 2
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:40:19 2008
 Response via : Multiple Level Calibration



TIC: AR928.D

(2) 1,4-Dioxane (T)

5.78min 0.01ppm

response 742

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

B

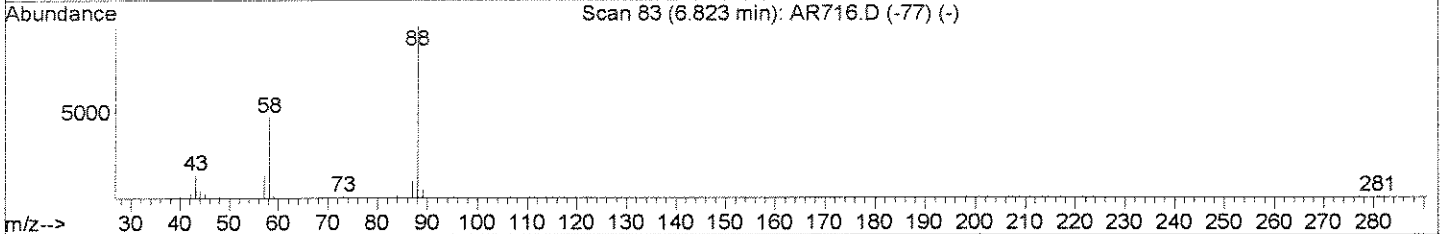
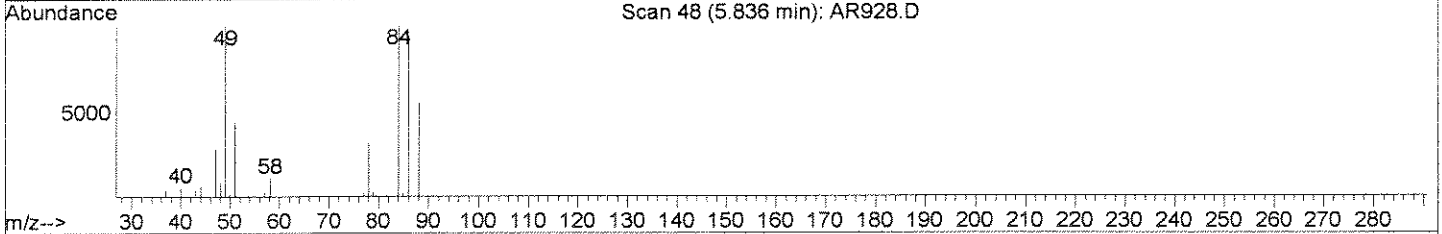
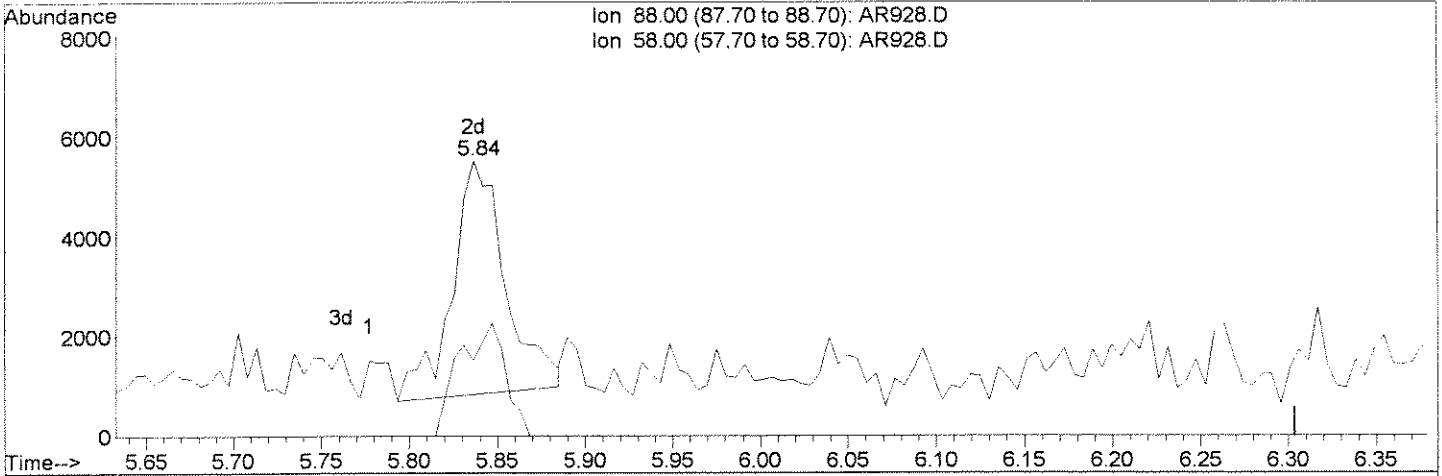
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR928.D
Acq On : 26 Jun 2008 5:31 pm
Sample : INITIAL CALIBRATION
Misc : 0.1/0.2 PPM STD 8270.LL
MS Integration Params: RTEINT.P
Quant Time: Jun 27 8:44 2008

Vial: 2
Operator: J.Wu
Inst : 5973C
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 08:43:11 2008
Response via : Multiple Level Calibration



(2) 1,4-Dioxane (T)
5.84min 0.19ppm m
response 9894

Ion	Exp%	Act%
88.00	100	100
58.00	58.60	27.34#
0.00	0.00	0.00
0.00	0.00	0.00

A.S.J. 6/27 MW 1/17

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR929.D
 Acq On : 26 Jun 2008 6:06 pm
 Sample : INITIAL CALIBRATION
 Misc : 0.2/0.4 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:47:06 2008

Vial: 3
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:47:00 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	73658	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	283360	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	157813	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	270913	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	238878	1.00	ppm	0.00
33) d12-Perylene	21.31	264	170599	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	30751	0.21	ppm	0.00
Spiked Amount 2.000	Range	22 - 124	Recovery	=	10.50%#	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	41822	0.21	ppm	0.00
Spiked Amount 2.000	Range	27 - 114	Recovery	=	10.50%#	
28) SURR6,TERPHENYL-D14	16.25	244	38219	0.20	ppm	0.00
Spiked Amount 2.000	Range	23 - 139	Recovery	=	10.00%#	

Target Compounds

	R.T.	QI on	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.82	88	19318	0.42	ppm	99
3) Pyridine	6.81	79	25702m	0.20	ppm	
6) Nitrobenzene	11.29	77	33718	0.22	ppm	86
7) Naphthalene	11.97	128	60211	0.23	ppm	92
8) 2-Methylnaphthalene	12.60	142	38509	0.22	ppm	92
9) 1-Methylnaphthalene	12.70	142	35879	0.21	ppm	94
12) Acenaphthylene	13.42	152	50418	0.19	ppm	96
14) Acenaphthene	13.58	153	36409	0.21	ppm	97
15) Dibenzofuran	13.72	168	53021	0.21	ppm	96
16) Fluorene	14.00	166	34897	0.20	ppm	98
19) Hexachlorobenzene	14.49	284	13919	0.22	ppm	87
20) Phenanthrene	14.76	178	54347	0.21	ppm	98
21) Anthracene	14.80	178	50330	0.20	ppm	94
22) Carbazole	14.91	167	39945	0.21	ppm	97
23) Octachlorostyrene	15.70	380	3008	0.19	ppm	92
24) Di-n-butylphthalate	15.15	149	55040	0.20	ppm	97
25) Fluoranthene	15.89	202	52531	0.20	ppm	94
27) Pyrene	16.15	202	56558	0.22	ppm	97
29) Butylbenzylphthalate	16.85	149	19152	0.18	ppm	97
31) Benzo(a)anthracene	17.78	228	48380	0.20	ppm	98
32) Chrysene	17.86	228	54507	0.22	ppm	99
34) Di-n-octylphthalate	18.97	149	26314	0.14	ppm	96
35) Benzo(b)fluoranthene	20.17	252	44807	0.21	ppm	84
36) Benzo(k)fluoranthene	20.24	252	42140	0.20	ppm	90
37) Benzo(a)pyrene	21.14	252	31296	0.17	ppm	86
38) Indeno(1,2,3-cd)Pyrene	24.42	276	32623	0.15	ppm	89

(#) = qualifier out of range (m) = manual integration
 AR929.D LVI0626.M Fri Jun 27 09:58:22 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR929.D Vial: 3
 Acq On : 26 Jun 2008 6:06 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.2/0.4 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:47:06 2008 Quant Results File: LVI0626.RES

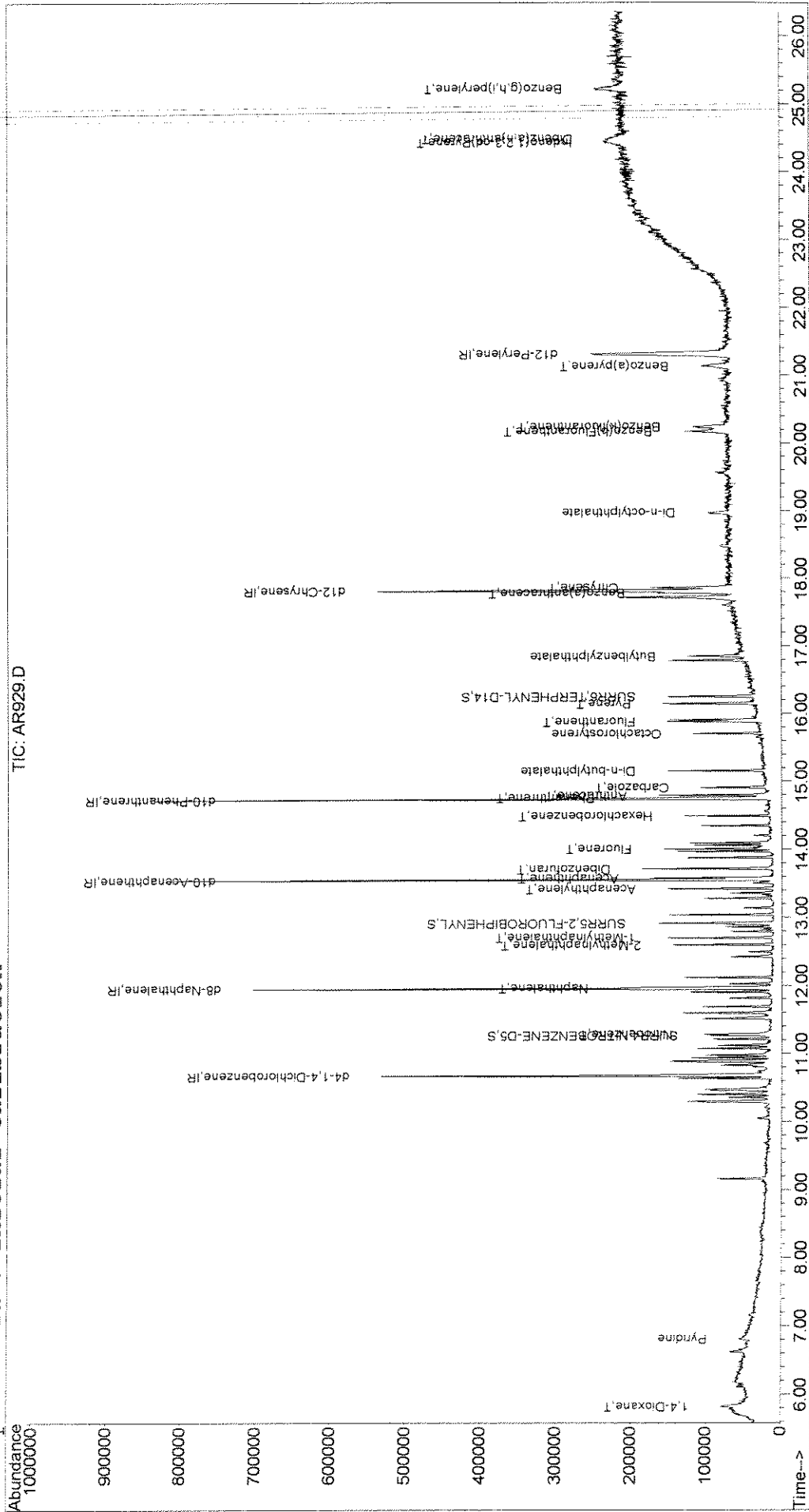
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:47:00 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Dibenz(a,h)anthracene	24.47	278	21862	0.12	ppm	97
40) Benzo(g,h,i)perylene	25.22	276	36631	0.19	ppm	90

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR929.D Vial: 3
 Acq On : 26 Jun 2008 6:06 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.2/0.4 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 9:58 2008 Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



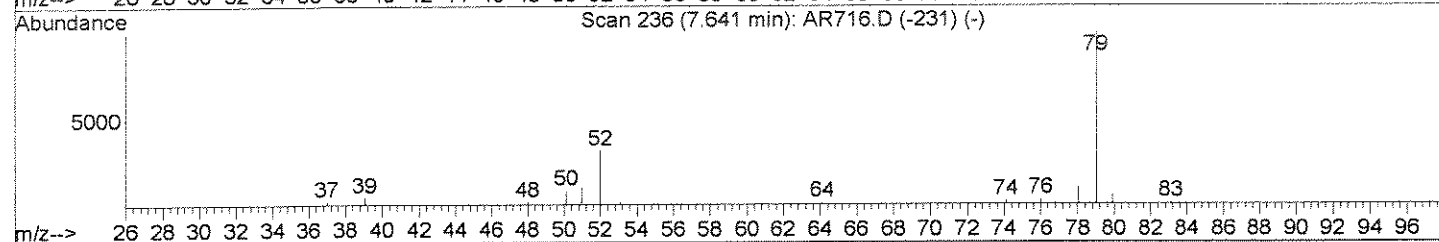
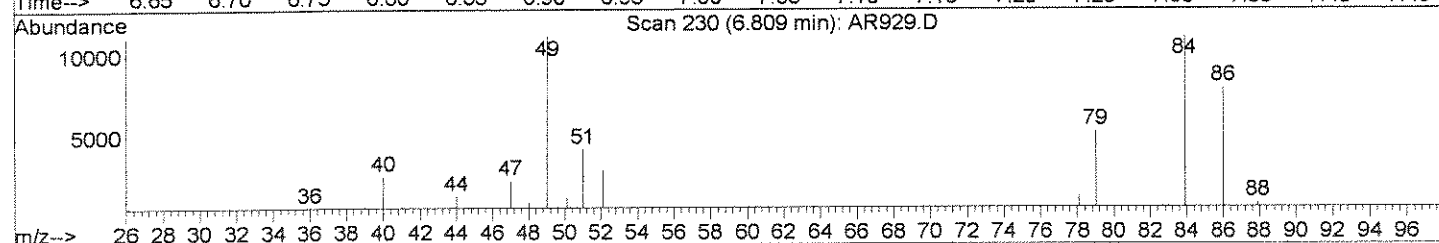
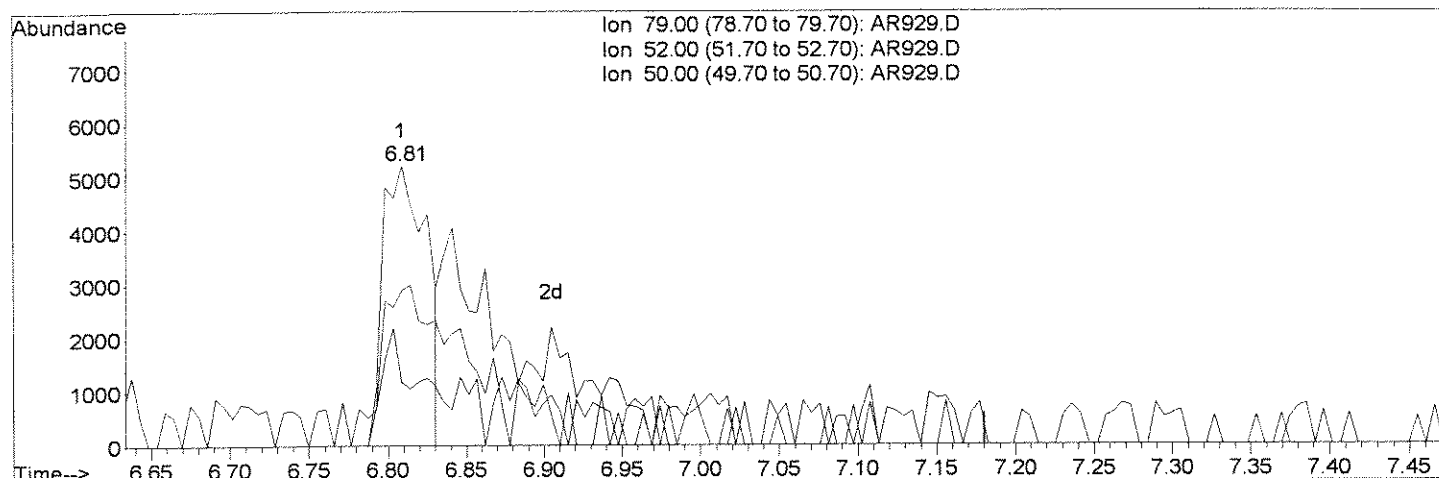
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR929.D
 Acq On : 26 Jun 2008 6:06 pm
 Sample : INITIAL CALIBRATION
 Misc : 0.2/0.4 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:47 2008

Vial: 3
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:47:00 2008
 Response via : Multiple Level Calibration



TIC: AR929.D

(3) Pyridine

6.81min 0.08ppm

response 10092

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	45.81
50.00	17.50	7.53
0.00	0.00	0.00

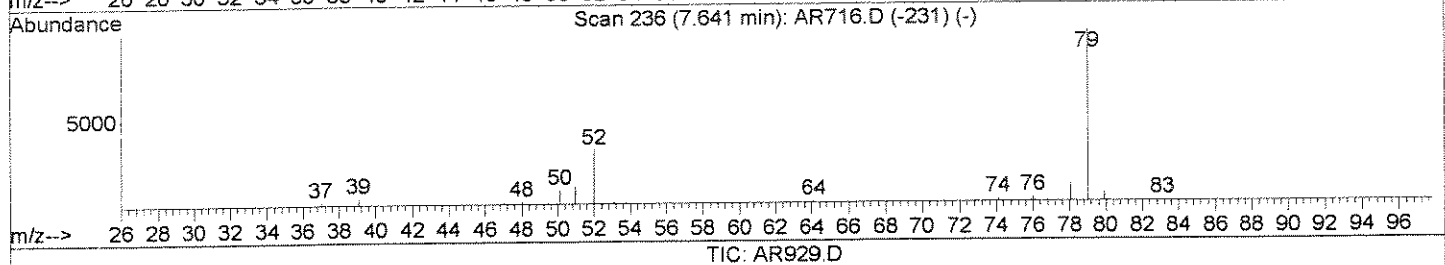
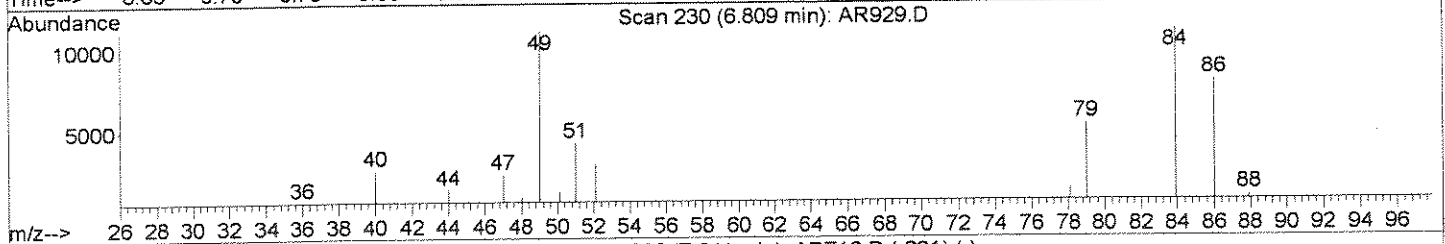
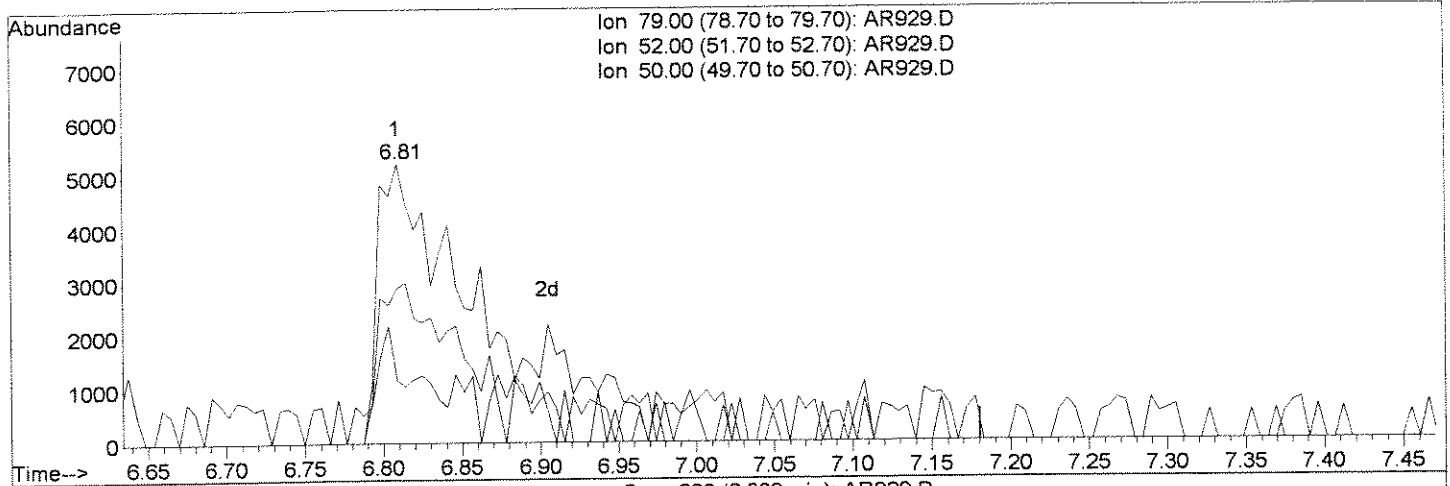
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR929.D
 Acq On : 26 Jun 2008 6:06 pm
 Sample : INITIAL CALIBRATION
 Misc : 0.2/0.4 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:47 2008

Vial: 3
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:47:00 2008
 Response via : Multiple Level Calibration



(3) Pyridine

6.81min 0.20ppm m
 response 25702

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	55.35
50.00	17.50	22.67
0.00	0.00	0.00

A ← 6/27
MW 79

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR930.D Vial: 4
 Acq On : 26 Jun 2008 6:40 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.5/1.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:49:20 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:49:15 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	73219	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	290183	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	157430	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	275602	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	258932	1.00	ppm	0.00
33) d12-Perylene	21.31	264	191246	1.00	ppm	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
5) SURR4,NITROBENZENE-D5	11.27	82	81109	0.55	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery	=	27.50%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	106952	0.54	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery	=	27.00%	
28) SURR6,TERPHENYL-D14	16.25	244	104745	0.52	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery	=	26.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.81	88	42768	0.96	ppm	93
3) Pyridine	6.75	79	70640m	0.56	ppm	
6) Nitrobenzene	11.29	77	85700	0.55	ppm	94
7) Naphthalene	11.97	128	150195	0.55	ppm	99
8) 2-Methylnaphthalene	12.60	142	93767	0.52	ppm	89
9) 1-Methylnaphthalene	12.70	142	94400	0.54	ppm	98
12) Acenaphthylene	13.42	152	137970	0.53	ppm	98
13) Dimethyl phthalate	13.28	163	96267	0.54	ppm	99
14) Acenaphthene	13.58	153	90727	0.53	ppm	98
15) Dibenzofuran	13.72	168	135804	0.55	ppm	99
16) Fluorene	14.00	166	94045	0.53	ppm	98
17) Diethylphthalate	13.88	149	92879	0.53	ppm	100
19) Hexachlorobenzene	14.49	284	36723	0.57	ppm	98
20) Phenanthrene	14.76	178	142416	0.55	ppm	100
21) Anthracene	14.80	178	135843	0.54	ppm	96
22) Carbazole	14.91	167	107998	0.57	ppm	100
23) Octachlorostyrene	15.70	380	8597	0.55	ppm	78
24) Di-n-butylphthalate	15.15	149	140596	0.49	ppm	99
25) Fluoranthene	15.88	202	142707	0.54	ppm	99
27) Pyrene	16.15	202	152038	0.54	ppm	97
29) Butylbenzylphthalate	16.85	149	56006	0.48	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.72	149	157050	0.94	ppm	95
31) Benzo(a)anthracene	17.78	228	136003	0.52	ppm	96
32) Chrysene	17.86	228	144737	0.54	ppm	96
34) Di-n-octylphthalate	18.96	149	88652	0.43	ppm	97
35) Benzo(b)Fluoranthene	20.17	252	131024	0.54	ppm	96

(#) = qualifier out of range (m) = manual integration
 AR930.D LVI0626.M Fri Jun 27 09:58:42 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR930.D Vial: 4
 Acq On : 26 Jun 2008 6:40 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.5/1.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:49:20 2008 Quant Results File: LVI0626.RES

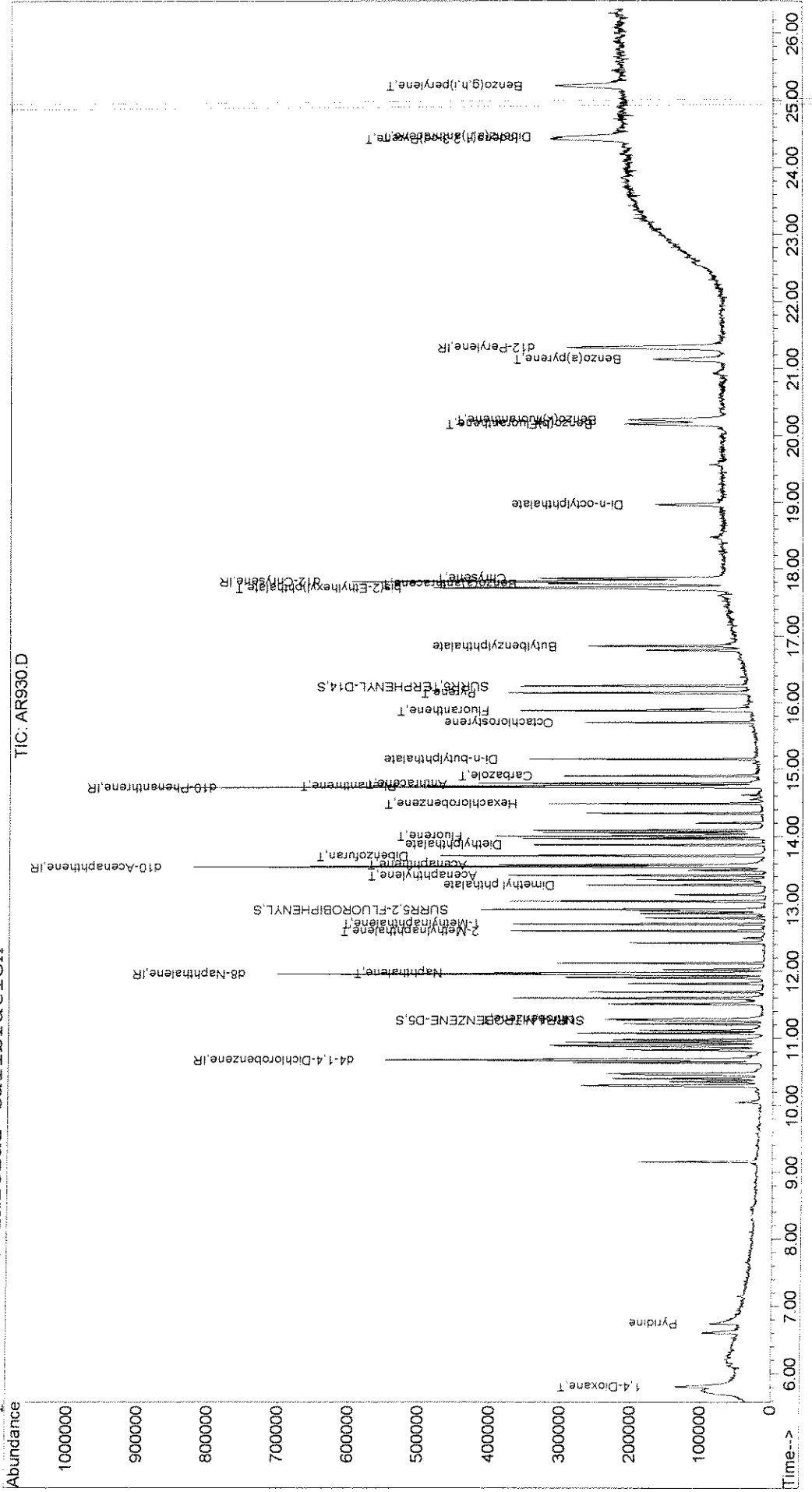
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:49:15 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	120310	0.51	ppm	98
37) Benzo(a)pyrene	21.14	252	97760	0.48	ppm	94
38) Indeno(1,2,3-cd)Pyrene	24.42	276	110173	0.47	ppm	99
39) Dibenz(a,h)anthracene	24.46	278	89154	0.45	ppm	90
40) Benzo(g,h,i)perylene	25.22	276	113265	0.53	ppm	97

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR930.D Vial: 4
 Acq On : 26 Jun 2008 6:40 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 0.5/1.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:49 2008 Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



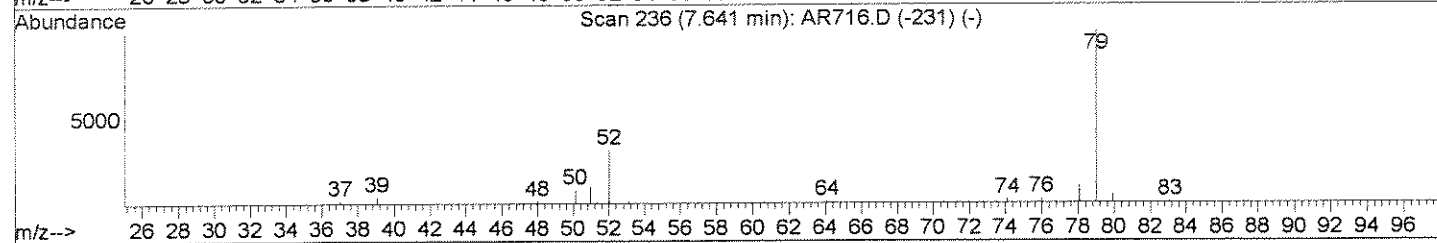
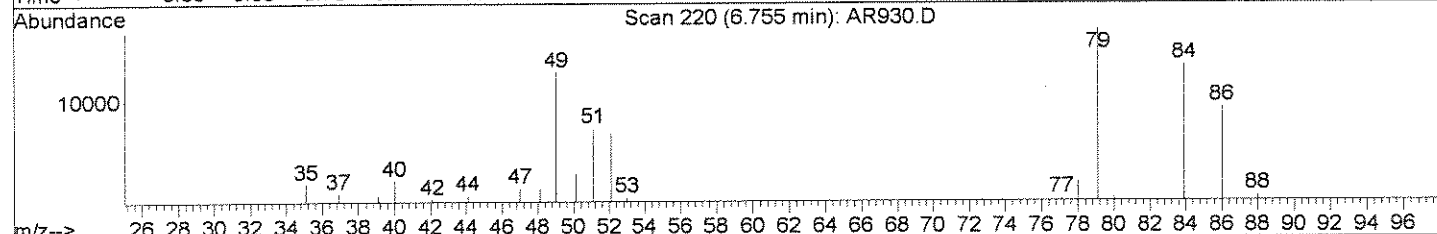
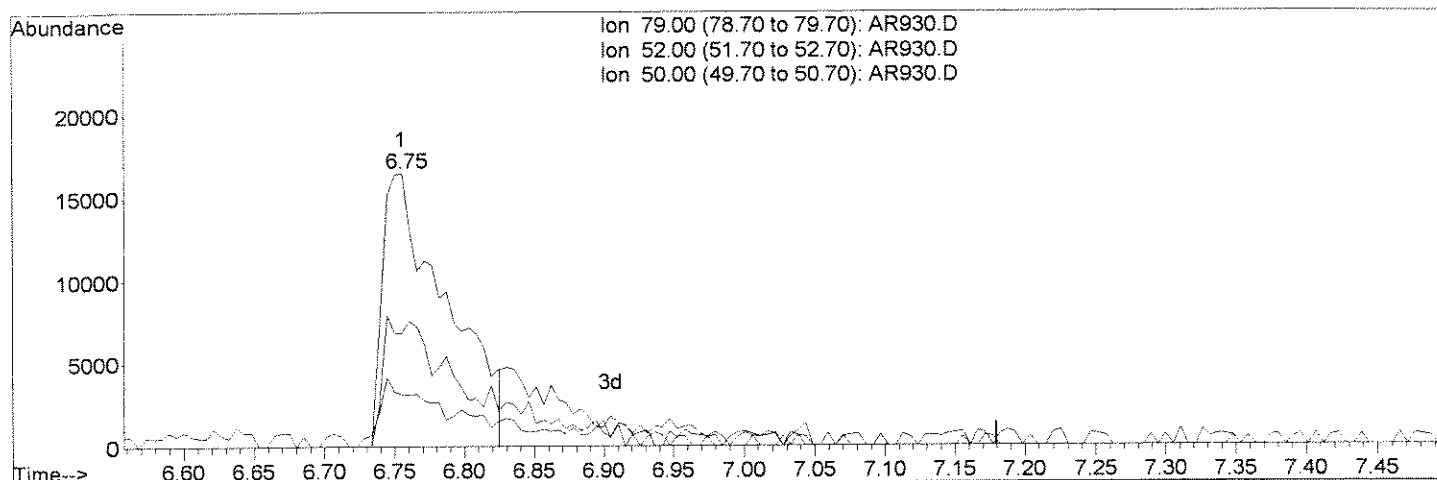
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR930.D
 Acq On : 26 Jun 2008 6:40 pm
 Sample : INITIAL CALIBRATION
 Misc : 0.5/1.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:49 2008

Vial: 4
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:49:15 2008
 Response via : Multiple Level Calibration



(3) Pyridine

6.75min 0.41ppm

response 52136

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	40.90
50.00	17.50	14.88
0.00	0.00	0.00

B

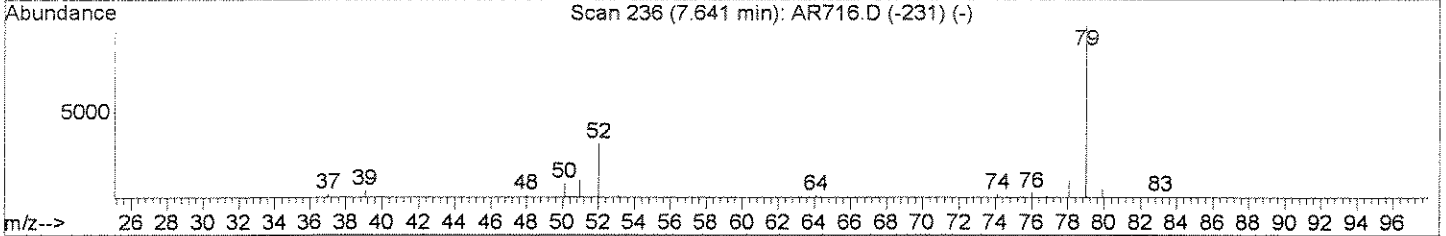
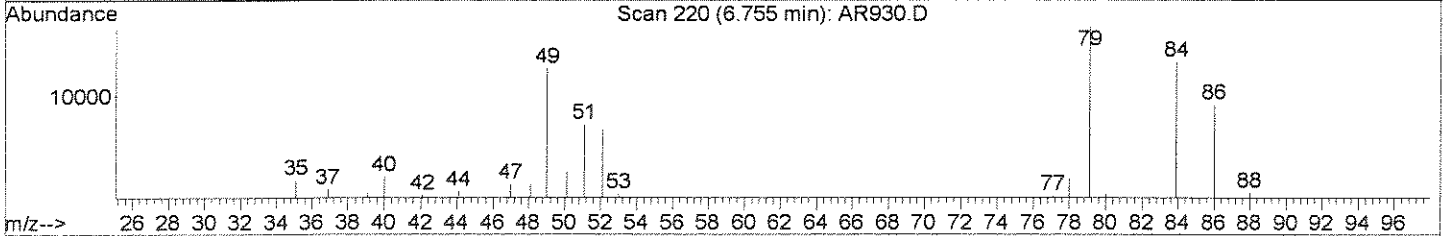
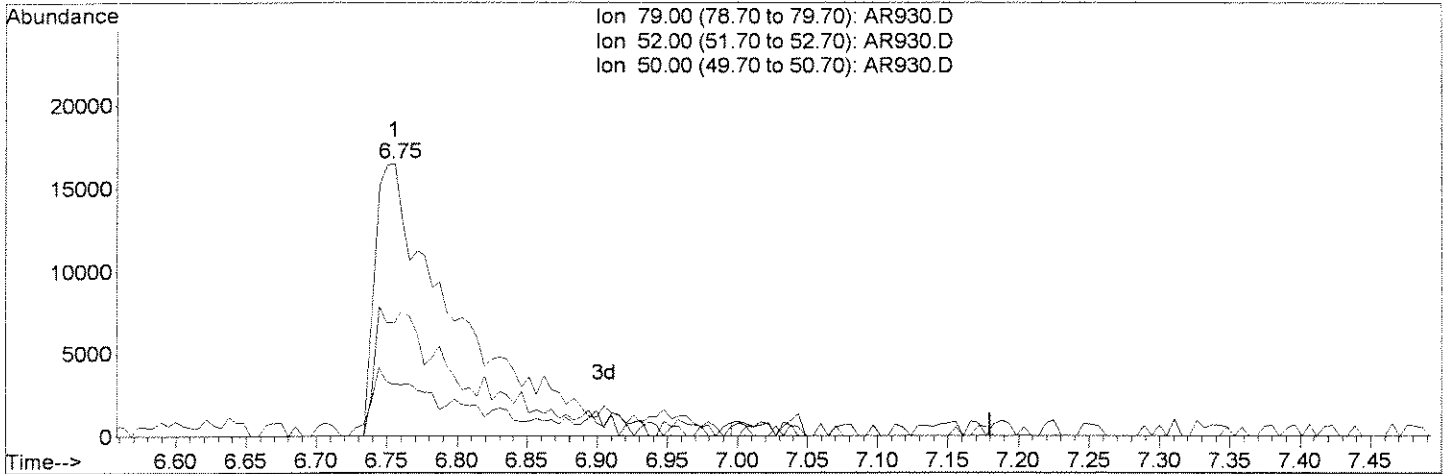
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR930.D
 Acq On : 26 Jun 2008 6:40 pm
 Sample : INITIAL CALIBRATION
 Misc : 0.5/1.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:49 2008

Vial: 4
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:49:15 2008
 Response via : Multiple Level Calibration



TIC: AR930.D

(3) Pyridine

6.75min 0.56ppm m

response 70640

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	41.63
50.00	17.50	18.97
0.00	0.00	0.00

A JW 6/27
MW 5/17

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR931.D Vial: 5
 Acq On : 26 Jun 2008 7:15 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 1.0/2.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:50:20 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:50:15 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	76711	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	307986	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	161035	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	297814	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	281593	1.00	ppm	0.00
33) d12-Perylene	21.31	264	208023	1.00	ppm	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	168947	1.07	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	53.50%		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	224858	1.11	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	55.50%		
28) SURR6,TERPHENYL-D14	16.25	244	230305	1.05	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	52.50%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.80	88	81937	1.82	ppm	97
3) Pyridine	6.71	79	144368m	1.09	ppm	
6) Nitrobenzene	11.29	77	175730	1.06	ppm	98
7) Naphthalene	11.97	128	308228	1.07	ppm	99
8) 2-Methylnaphthalene	12.59	142	198250	1.04	ppm	99
9) 1-Methylnaphthalene	12.70	142	190307	1.03	ppm	98
12) Acenaphthylene	13.42	152	293899	1.10	ppm	98
13) Dimethyl phthalate	13.28	163	185757	1.01	ppm	99
14) Acenaphthene	13.58	153	189882	1.10	ppm	96
15) Dibenzofuran	13.72	168	276142	1.09	ppm	99
16) Fluorene	14.00	166	203917	1.12	ppm	95
17) Diethylphthalate	13.88	149	198265	1.11	ppm	98
19) Hexachlorobenzene	14.49	284	72109	1.03	ppm	97
20) Phenanthrene	14.76	178	300285	1.07	ppm	98
21) Anthracene	14.79	178	285416	1.05	ppm	96
22) Carbazole	14.90	167	233744	1.16	ppm	99
23) Octachlorostyrene	15.70	380	17949	1.08	ppm	94
24) Di-n-butylphthalate	15.15	149	303287	0.98	ppm	98
25) Fluoranthene	15.88	202	293931	1.02	ppm	99
27) Pyrene	16.15	202	315379	1.03	ppm	98
29) Butylbenzylphthalate	16.85	149	129187	1.01	ppm	90
30) bis(2-Ethylhexyl)phthalate	17.72	149	370991	2.03	ppm	98
31) Benzo(a)anthracene	17.78	228	301492	1.07	ppm	98
32) Chrysene	17.86	228	301837	1.04	ppm	98
34) Di-n-octylphthalate	18.96	149	222700	1.01	ppm	99
35) Benzo(b)Fluoranthene	20.17	252	285358	1.08	ppm	100

(#) = qualifier out of range (m) = manual integration
 AR931.D LVI0626.M Fri Jun 27 09:58:52 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR931.D Vial: 5
 Acq On : 26 Jun 2008 7:15 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 1.0/2.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:50:20 2008 Quant Results File: LVI0626.RES

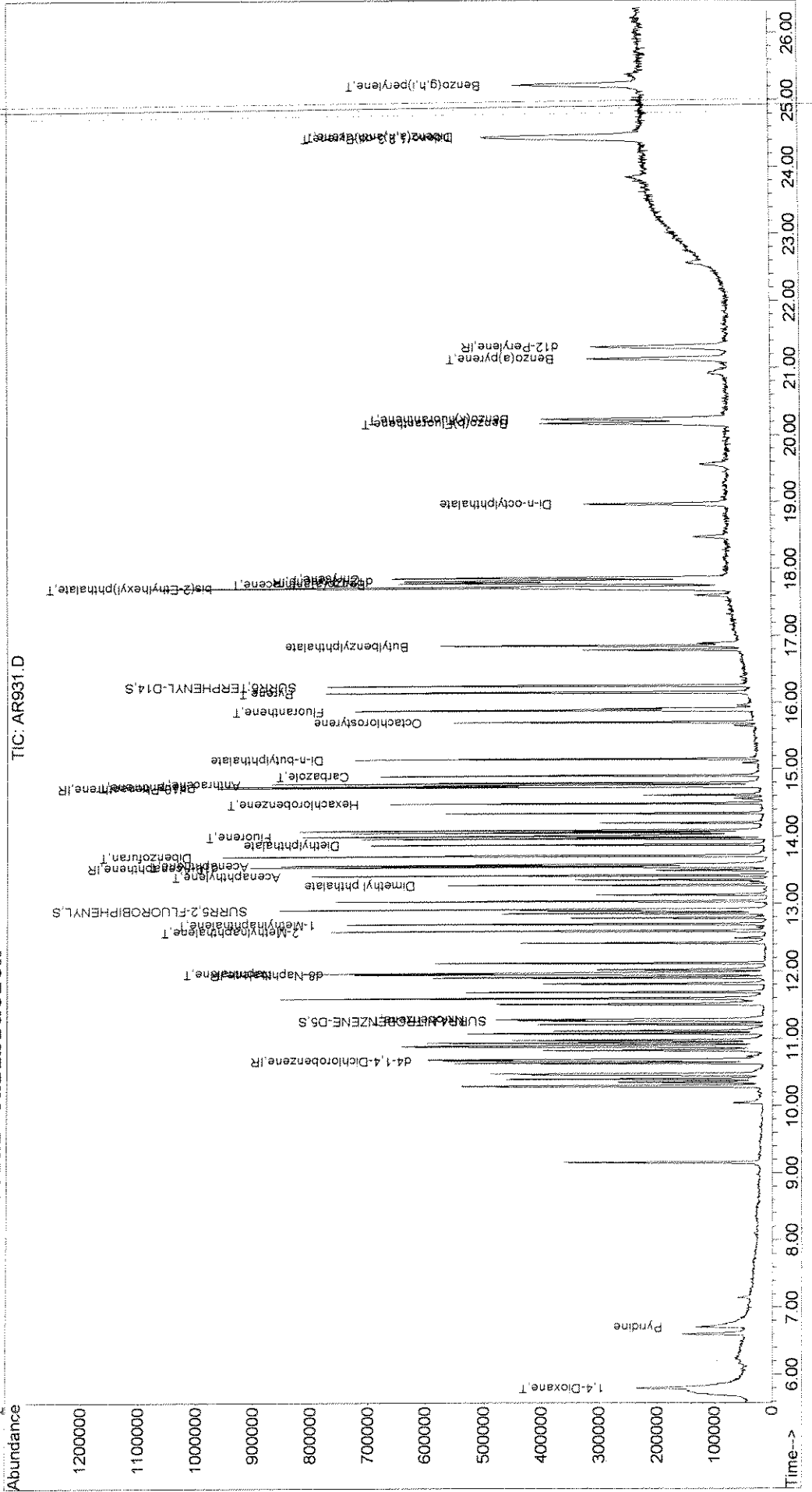
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:50:15 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	279751	1.09	ppm	92
37) Benzo(a)pyrene	21.13	252	231715	1.05	ppm	99
38) Indeno(1,2,3-cd)Pyrene	24.42	276	276695	1.12	ppm	93
39) Dibenz(a,h)anthracene	24.45	278	223920	1.07	ppm	95
40) Benzo(g,h,i)perylene	25.21	276	259596	1.14	ppm	96

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR931.D Vial: 5
 Acq On : 26 Jun 2008 7:15 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 1.0/2.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:50 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



00471

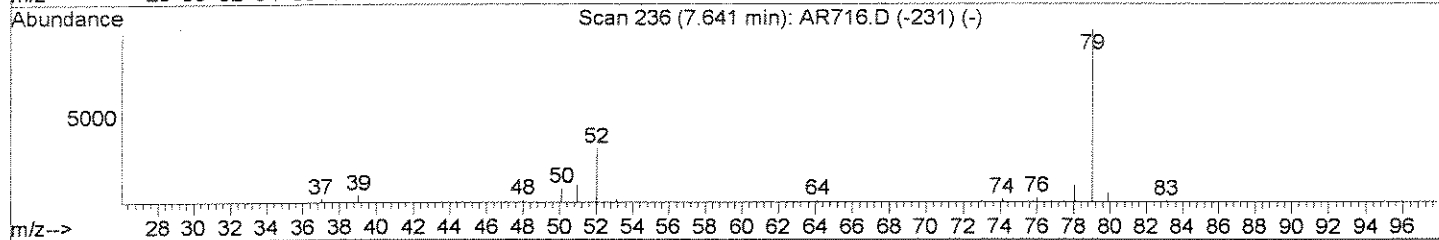
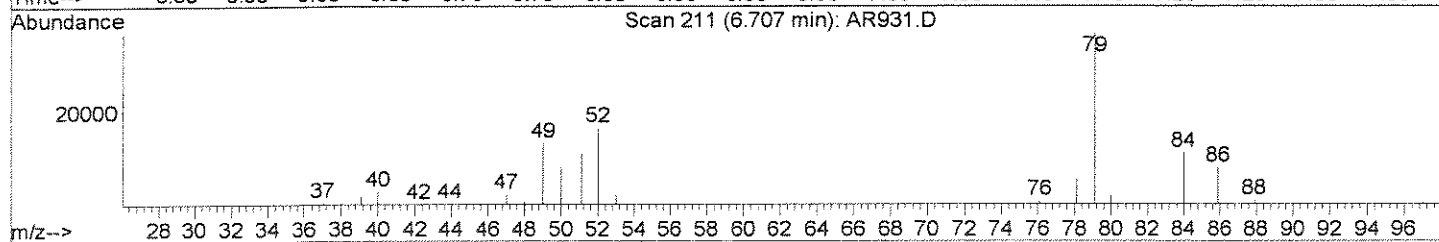
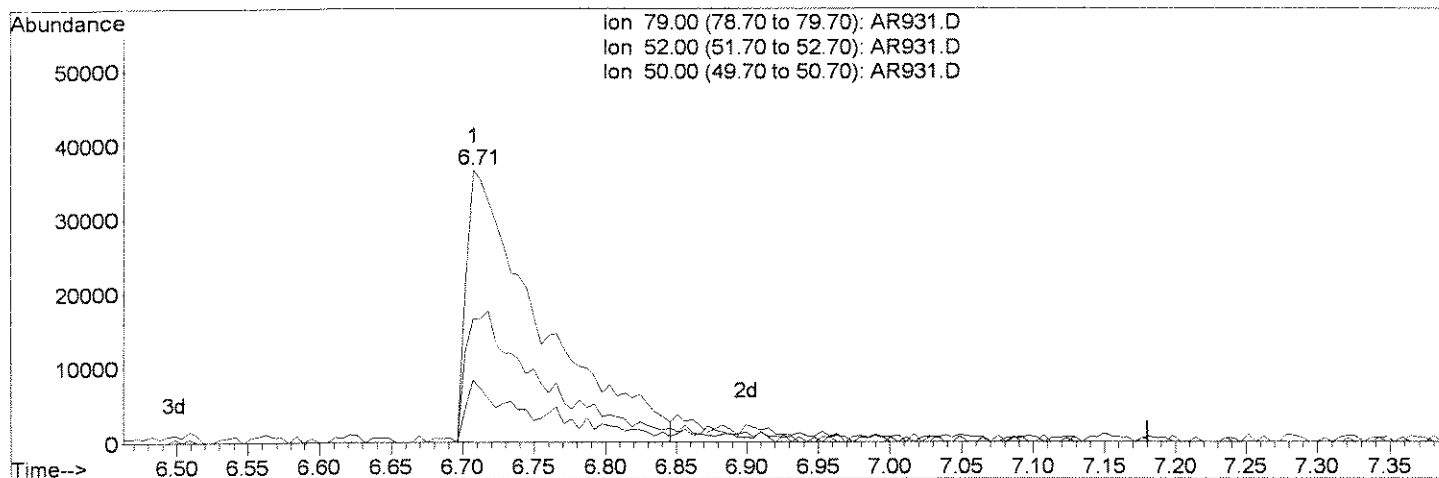
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR931.D
 Acq On : 26 Jun 2008 7:15 pm
 Sample : INITIAL CALIBRATION
 Misc : 1.0/2.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:50 2008

Vial: 5
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:50:15 2008
 Response via : Multiple Level Calibration



TIC: AR931.D

(3) Pyridine

6.71min 1.00ppm

response 132554

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	44.24
50.00	17.50	21.68
0.00	0.00	0.00

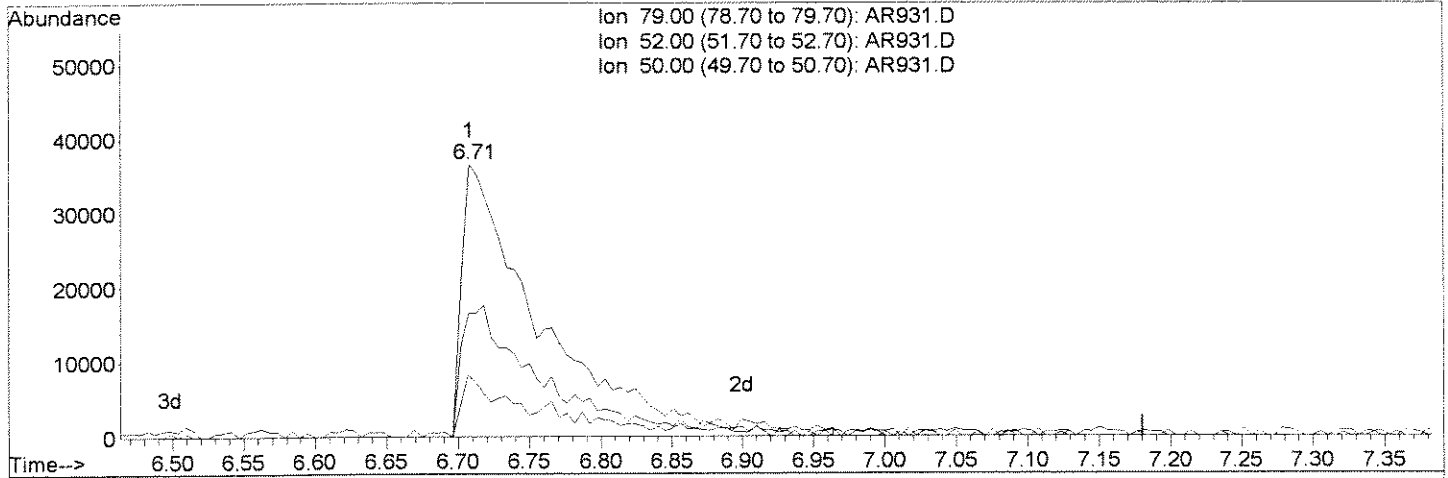
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR931.D
 Acq On : 26 Jun 2008 7:15 pm
 Sample : INITIAL CALIBRATION
 Misc : 1.0/2.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:50 2008

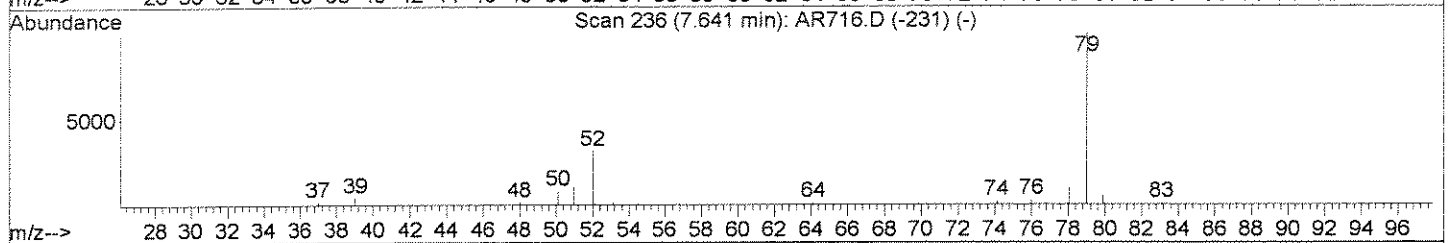
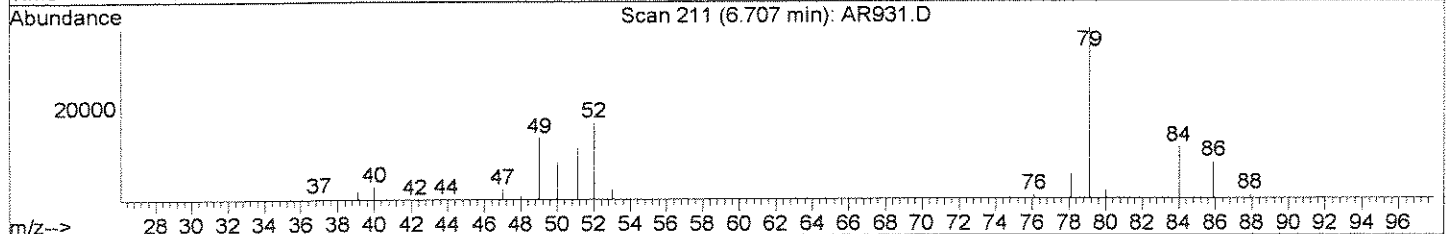
Vial: 5
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:50:15 2008
 Response via : Multiple Level Calibration



Ion 79.00 (78.70 to 79.70): AR931.D
 Ion 52.00 (51.70 to 52.70): AR931.D
 Ion 50.00 (49.70 to 50.70): AR931.D



(3) Pyridine

6.71min 1.09ppm m

response 144368

Ion	Exp%	Act%
79.00	100	100
52.00	45.40	45.22
50.00	17.50	22.75
0.00	0.00	0.00

A Jw 6/27

MW 417

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR932.D Vial: 6
 Acq On : 26 Jun 2008 7:50 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:39:18 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:39:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	83643	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	327832	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	150391	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	318860	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	299259	1.00	ppm	0.00
33) d12-Perylene	21.32	264	229592	1.00	ppm	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	400602	2.37	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	118.50%		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	519403	2.73	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	136.50%#		
28) SURR6,TERPHENYL-D14	16.25	244	539944	2.34	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	117.00%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.80	88	188388	3.51	ppm	100
3) Pyridine	6.68	79	332767	2.26	ppm	100
6) Nitrobenzene	11.29	77	402505	2.29	ppm	100
7) Naphthalene	11.97	128	698403	2.26	ppm	100
8) 2-Methylnaphthalene	12.60	142	460947	2.27	ppm	100
9) 1-Methylnaphthalene	12.70	142	454549	2.31	ppm	100
12) Acenaphthylene	13.42	152	680592	2.73	ppm	100
13) Dimethyl phthalate	13.28	163	447166	2.59	ppm	100
14) Acenaphthene	13.58	153	435274	2.70	ppm	100
15) Dibenzofuran	13.72	168	658705	2.79	ppm	100
16) Fluorene	14.00	166	467280	2.73	ppm	100
17) Diethylphthalate	13.88	149	474144	2.81	ppm	100
19) Hexachlorobenzene	14.49	284	166018	2.23	ppm	100
20) Phenanthrene	14.76	178	690625	2.28	ppm	100
21) Anthracene	14.80	178	669504	2.31	ppm	100
22) Carbazole	14.91	167	514640	2.30	ppm	100
23) Octachlorostyrene	15.71	380	41855	2.18	ppm	100
24) Di-n-butylphthalate	15.15	149	743107	2.35	ppm	100
25) Fluoranthene	15.88	202	721159	2.33	ppm	100
27) Pyrene	16.15	202	754022	2.34	ppm	100
29) Butylbenzylphthalate	16.85	149	331969	2.46	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.72	149	937044	4.84	ppm	100
31) Benzo(a)anthracene	17.79	228	711165	2.37	ppm	100
32) Chrysene	17.86	228	709607	2.32	ppm	100
34) Di-n-octylphthalate	18.97	149	616857	2.69	ppm	100
35) Benzo(b)Fluoranthene	20.17	252	677347	2.34	ppm	100

(#) = qualifier out of range (m) = manual integration
 AR932.D LVI0626.M Fri Jun 27 09:59:01 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR932.D Vial: 6
 Acq On : 26 Jun 2008 7:50 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:39:18 2008 Quant Results File: LVI0626.RES

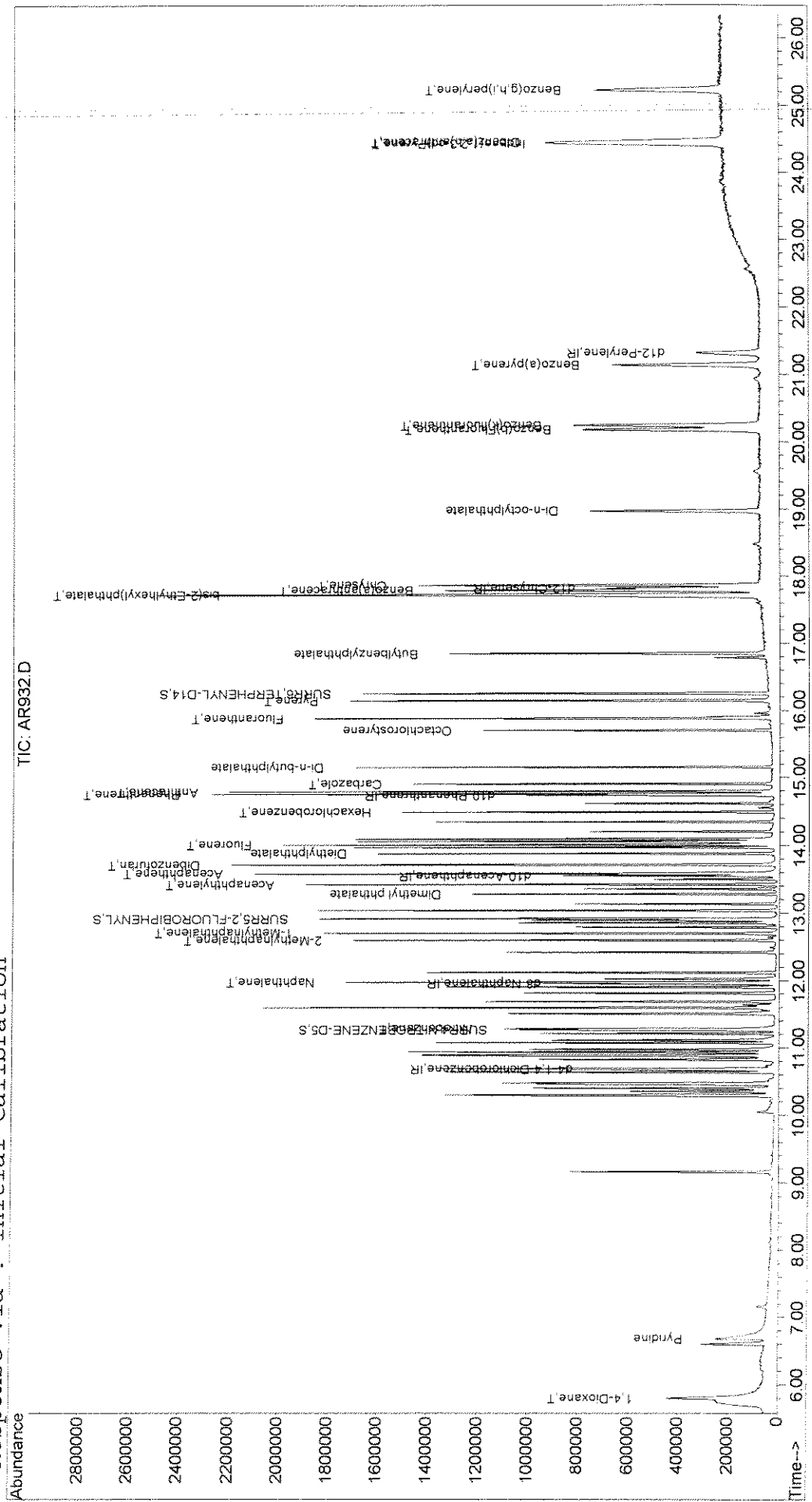
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:39:13 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.24	252	672963	2.37	ppm	100
37) Benzo(a)pyrene	21.14	252	581019	2.38	ppm	100
38) Indeno(1,2,3-cd)Pyrene	24.42	276	698474	2.33	ppm	100
39) Dibenz(a,h)anthracene	24.45	278	591083	2.24	ppm	100
40) Benzo(g,h,i)perylene	25.22	276	607446	2.28	ppm	100

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR932.D Vial: 6
 Acq On : 26 Jun 2008 7:50 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:39 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



00476

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR933.D Vial: 7
 Acq On : 26 Jun 2008 8:25 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 3.0/6.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:51:44 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:51:36 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	87577	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	334383	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	129857	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	323458	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	317124	1.00	ppm	0.00
33) d12-Perylene	21.31	264	235878	1.00	ppm	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	575466	3.36	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	168.00%#
11) SURR5,2-FLUOROBIPHENYL	12.91	172	757721	4.61	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	230.50%#
28) SURR6,TERPHENYL-D14	16.25	244	804202	3.27	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	163.50%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.81	88	279224	5.55	ppm	89
3) Pyridine	6.68	79	483878	3.19	ppm	94
6) Nitrobenzene	11.29	77	586563	3.25	ppm	99
7) Naphthalene	11.97	128	1038913	3.30	ppm	99
8) 2-Methylnaphthalene	12.60	142	686766	3.32	ppm	95
9) 1-Methylnaphthalene	12.70	142	670451	3.35	ppm	98
12) Acenaphthylene	13.42	152	995132	4.58	ppm	99
13) Dimethyl phthalate	13.28	163	611787	4.16	ppm	98
14) Acenaphthene	13.58	153	619927	4.40	ppm	96
15) Dibenzofuran	13.72	168	954204	4.62	ppm	99
16) Fluorene	14.00	166	683705	4.62	ppm	100
17) Diethylphthalate	13.88	149	688884	4.76	ppm	99
19) Hexachlorobenzene	14.49	284	248002	3.27	ppm	98
20) Phenanthrene	14.76	178	1017385	3.33	ppm	99
21) Anthracene	14.79	178	1009610	3.43	ppm	99
22) Carbazole	14.91	167	741389	3.39	ppm	100
23) Octachlorostyrene	15.71	380	61376	3.43	ppm	84
24) Di-n-butylphthalate	15.15	149	1104444	3.29	ppm	99
25) Fluoranthene	15.88	202	1071291	3.45	ppm	100
27) Pyrene	16.15	202	1119101	3.25	ppm	99
29) Butylbenzylphthalate	16.85	149	502193	3.49	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.72	149	1402038m	6.81	ppm	
31) Benzo(a)anthracene	17.79	228	1046093	3.30	ppm	97
32) Chrysene	17.86	228	1028240	3.15	ppm	98
34) Di-n-octylphthalate	18.97	149	961544	3.84	ppm	99
35) Benzo(b)Fluoranthene	20.18	252	1032569	3.44	ppm	98

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

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR933.D Vial: 7
 Acq On : 26 Jun 2008 8:25 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 3.0/6.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:51:44 2008 Quant Results File: LVI0626.RES

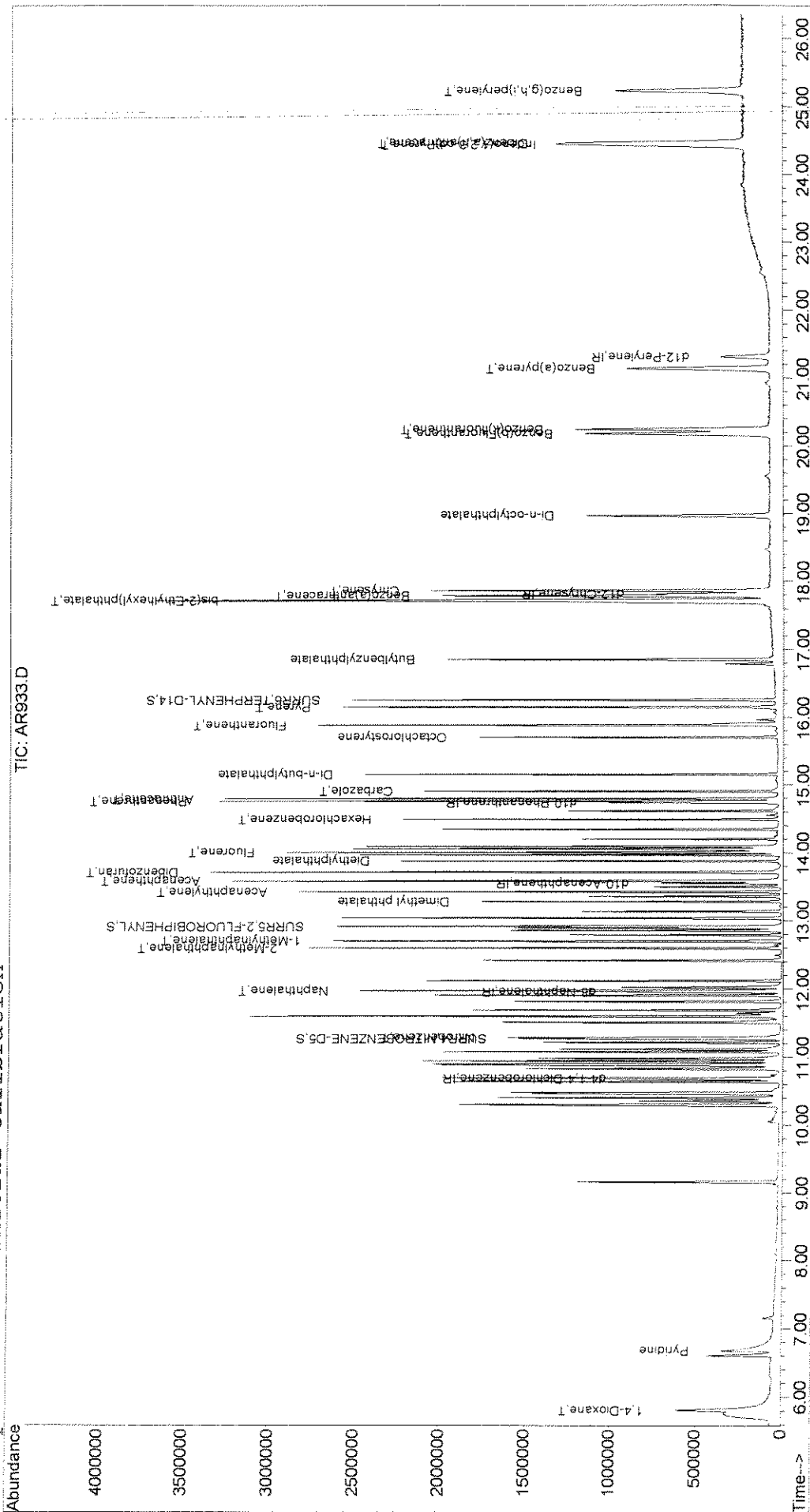
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:51:36 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.24	252	959763	3.28	ppm	98
37) Benzo(a)pyrene	21.14	252	869335	3.48	ppm	97
38) Indeno(1,2,3-cd)Pyrene	24.43	276	1024315	3.66	ppm	99
39) Dibenz(a,h)anthracene	24.46	278	876790	3.78	ppm	99
40) Benzo(g,h,i)perylene	25.22	276	884938	3.42	ppm	100

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR933.D Vial: 7
 Acq On : 26 Jun 2008 8:25 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 3.0/6.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:52 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



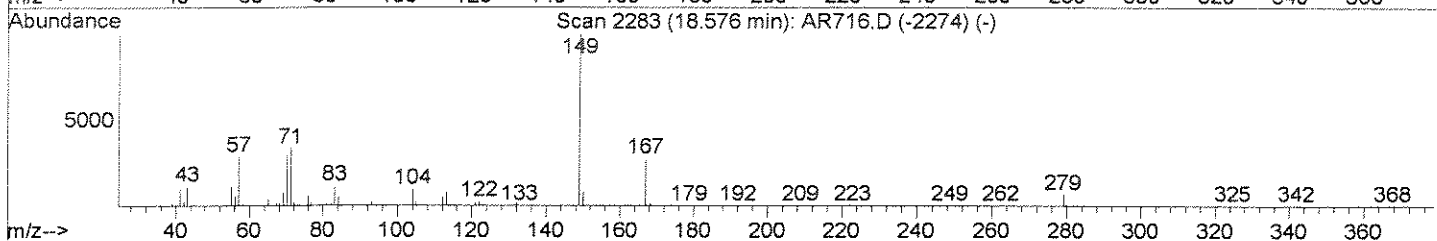
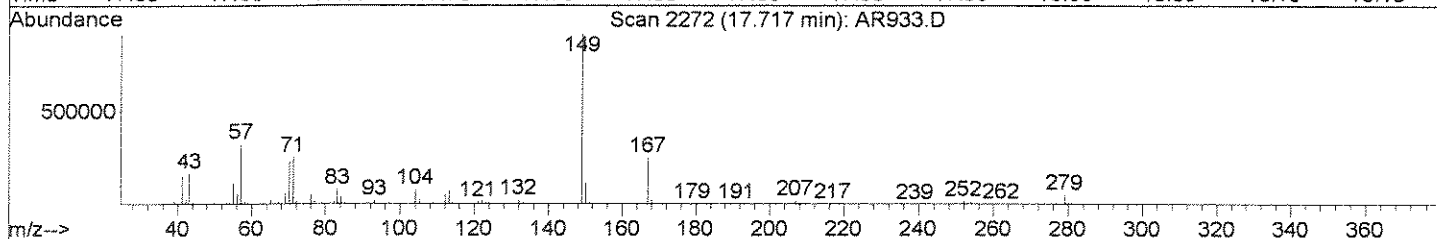
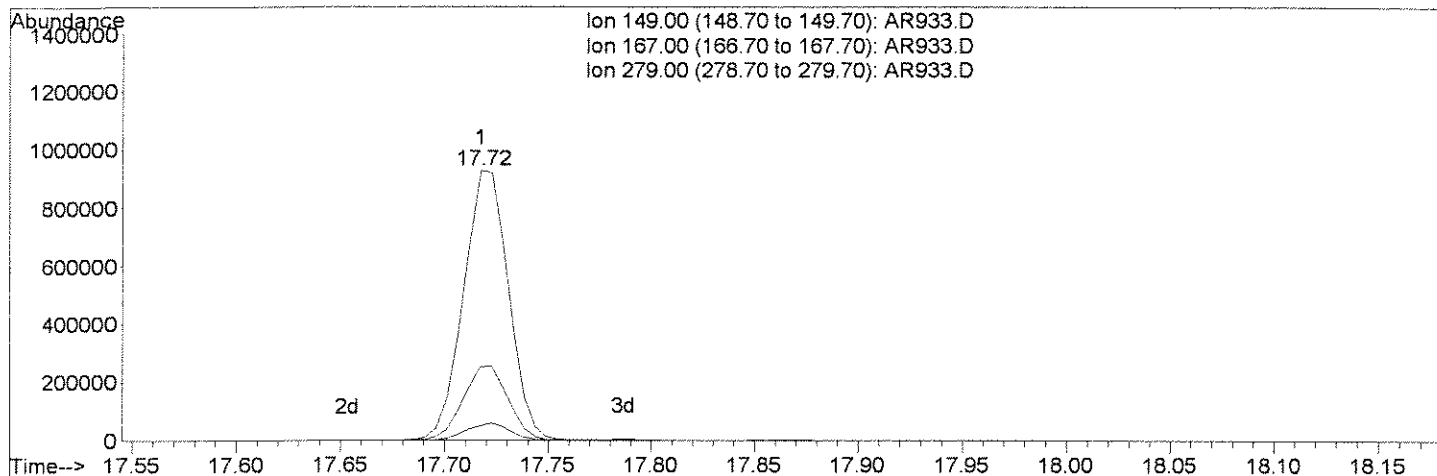
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR933.D
 Acq On : 26 Jun 2008 8:25 pm
 Sample : INITIAL CALIBRATION
 Misc : 3.0/6.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:51 2008

Vial: 7
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:51:36 2008
 Response via : Single Level Calibration



TIC: AR933.D

(30) bis(2-Ethylhexyl)phthalate (T)

17.72min 6.81ppm

response 1402753

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	27.26
279.00	6.90	5.37#
0.00	0.00	0.00

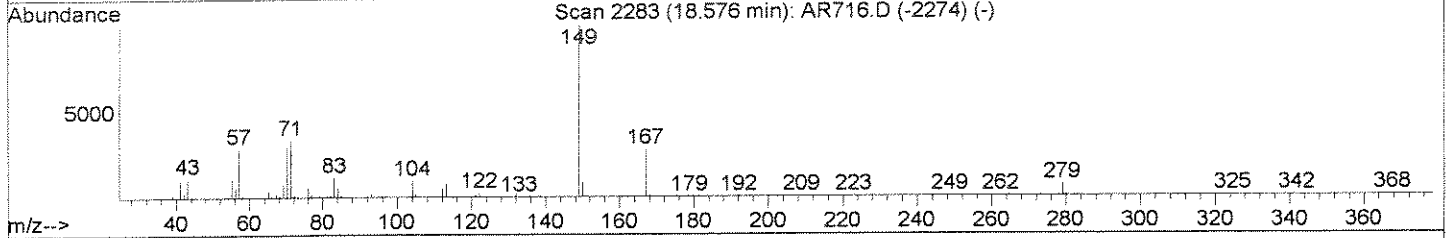
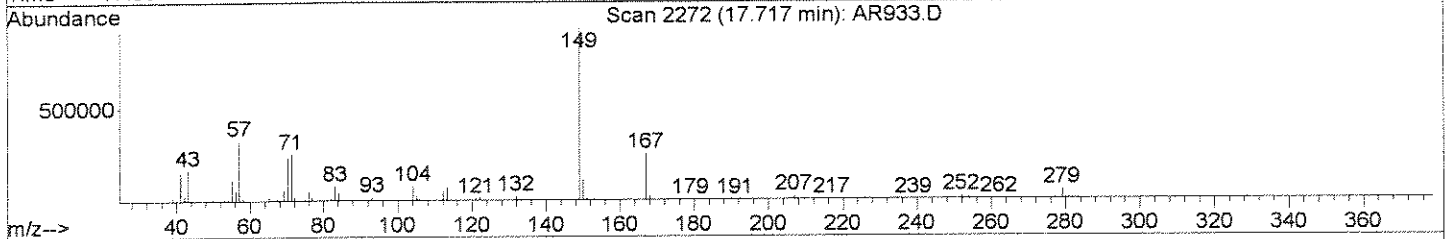
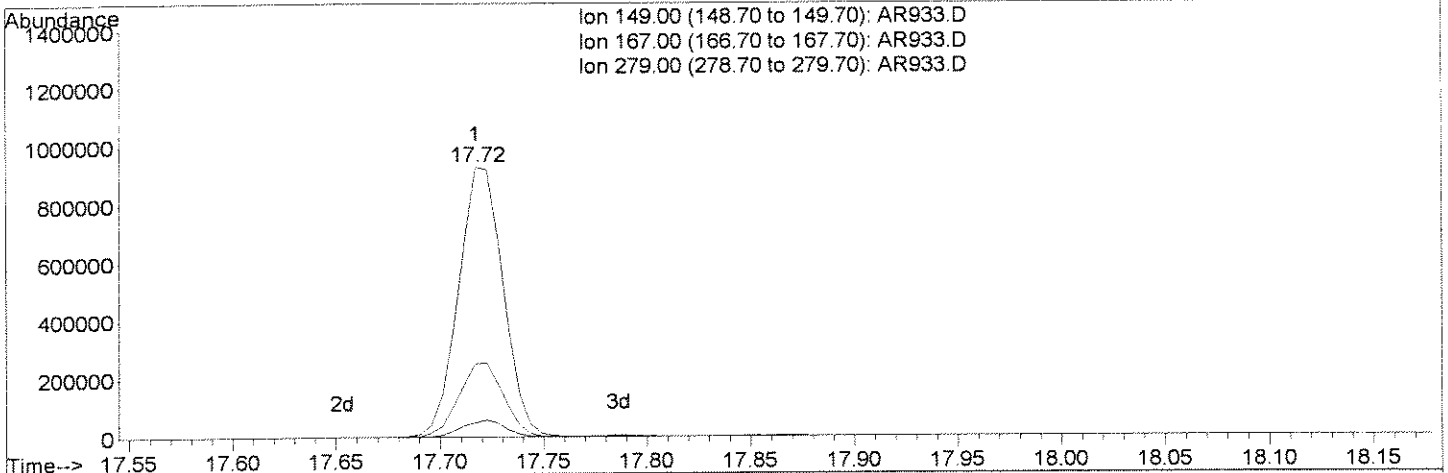
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR933.D
 Acq On : 26 Jun 2008 8:25 pm
 Sample : INITIAL CALIBRATION
 Misc : 3.0/6.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:52 2008

Vial: 7
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:51:36 2008
 Response via : Single Level Calibration



(30) bis(2-Ethylhexyl)phthalate (T)

17.72min 6.81ppm m

response 1402038

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	27.27
279.00	6.90	5.36#
0.00	0.00	0.00

A Jw 6/27

mw 417

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR934.D Vial: 8
 Acq On : 26 Jun 2008 9:00 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 4.0/8.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:53:07 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:53:01 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	84205	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	324268	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	127078	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	323546	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	307349	1.00	ppm	0.00
33) d12-Perylene	21.31	264	228576	1.00	ppm	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	772412	4.65	ppm	0.00
Spiked Amount 2.000	Range	22 - 124	Recovery	=	232.50%#	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	1025302	6.04	ppm	0.00
Spiked Amount 2.000	Range	27 - 114	Recovery	=	302.00%#	
28) SURR6,TERPHENYL-D14	16.25	244	1089617	4.56	ppm	0.00
Spiked Amount 2.000	Range	23 - 139	Recovery	=	228.00%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.80	88	373769	8.06	ppm	98
3) Pyridine	6.66	79	654281	4.53	ppm	98
6) Nitrobenzene	11.29	77	790917	4.52	ppm	95
7) Naphthalene	11.97	128	1388619	4.54	ppm	98
8) 2-Methylnaphthalene	12.59	142	927178	4.62	ppm	96
9) 1-Methylnaphthalene	12.70	142	910905	4.69	ppm	98
12) Acenaphthylene	13.42	152	1385236	6.21	ppm	100
13) Dimethyl phthalate	13.28	163	896104	6.03	ppm	100
14) Acenaphthene	13.58	153	856575	5.94	ppm	97
15) Dibenzofuran	13.72	168	1317991	6.18	ppm	98
16) Fluorene	14.00	166	943296	6.18	ppm	98
17) Diethylphthalate	13.88	149	937697	6.26	ppm	99
19) Hexachlorobenzene	14.49	284	347655	4.57	ppm	98
20) Phenanthrene	14.76	178	1371212	4.47	ppm	99
21) Anthracene	14.79	178	1391606	4.70	ppm	100
22) Carbazole	14.91	167	965400	4.39	ppm	99
23) Octachlorostyrene	15.71	380	86808	4.81	ppm	79
24) Di-n-butylphthalate	15.15	149	1506189	4.46	ppm	100
25) Fluoranthene	15.88	202	1457875	4.67	ppm	98
27) Pyrene	16.15	202	1538577	4.62	ppm	99
29) Butylbenzylphthalate	16.85	149	692324	4.96	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.72	149	1947318	9.78	ppm	100
31) Benzo(a)anthracene	17.79	228	1431446	4.68	ppm	99
32) Chrysene	17.87	228	1410323	4.47	ppm	98
34) Di-n-octylphthalate	18.97	149	1371529	5.66	ppm	99
35) Benzo(b)Fluoranthene	20.17	252	1356278	4.65	ppm	98

(#) = qualifier out of range (m) = manual integration
 AR934.D LVI0626.M Fri Jun 27 09:59:19 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR934.D Vial: 8
 Acq On : 26 Jun 2008 9:00 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : ~~4.0/8.0 PPM STD 8270.LL~~ Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:53:07 2008 Quant Results File: LVI0626.RES

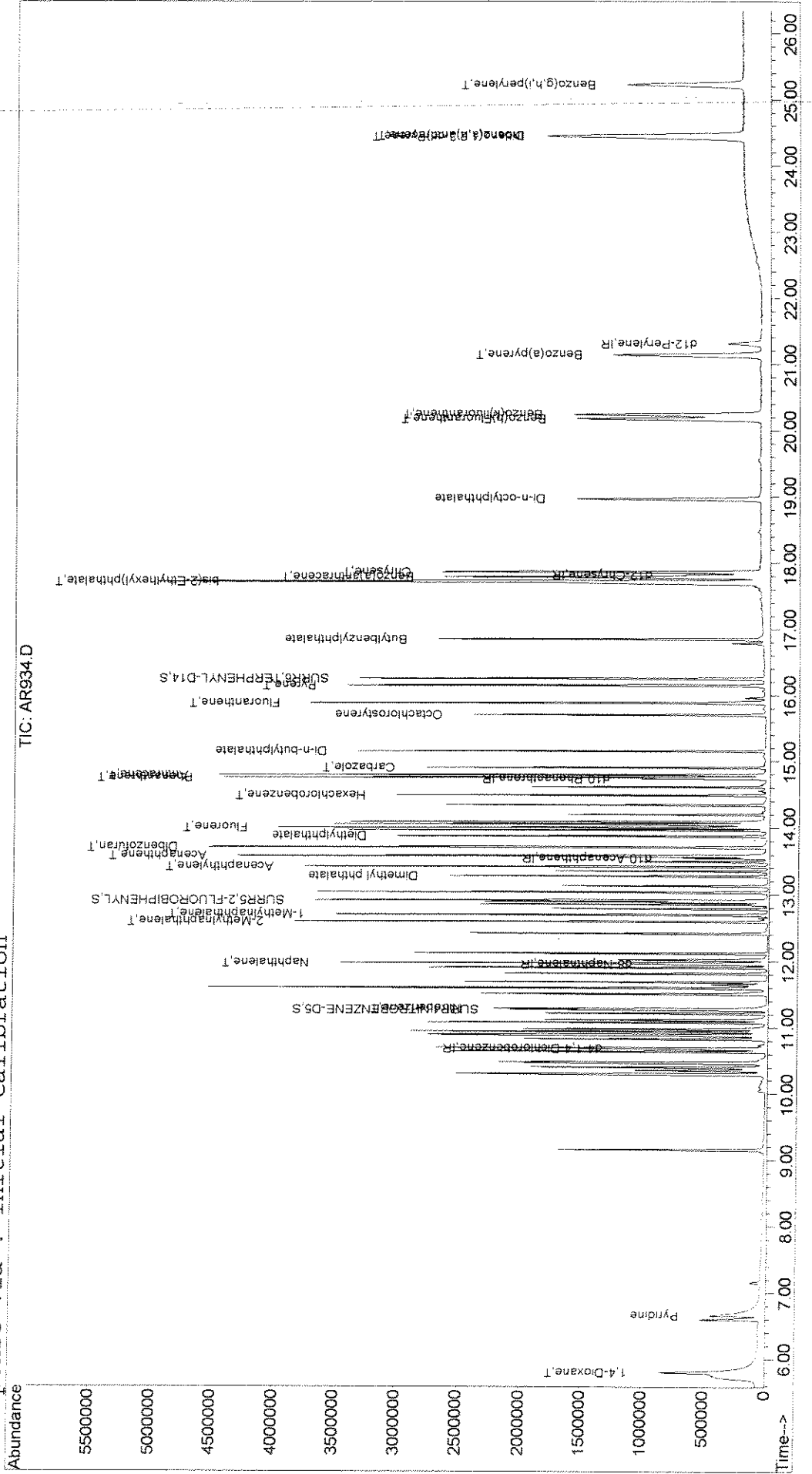
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:53:01 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.24	252	1377095	4.90	ppm	99
37) Benzo(a)pyrene	21.14	252	1222974	5.06	ppm	99
38) Indeno(1,2,3-cd)Pyrene	24.43	276	1410237	5.23	ppm	90
39) Dibenz(a,h)anthracene	24.46	278	1238045	5.56	ppm	97
40) Benzo(g,h,i)perylene	25.23	276	1169586	4.67	ppm	98

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR934.D
 Acq On : 26 Jun 2008 9:00 pm
 Sample : INITIAL CALIBRATION
 Misc : 4.0/8.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:53 2008
 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR935.D Vial: 9
 Acq On : 26 Jun 2008 9:35 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 5.0/10 PPM STD-8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:54:05 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:53:59 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	84766	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	320936	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	123740	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	318728	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	304724	1.00	ppm	0.00
33) d12-Perylene	21.31	264	220616	1.00	ppm	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	949009	5.75	ppm	0.00
Spiked Amount 2.000	Range	22 - 124	Recovery	=	287.50%#	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	1255183	7.22	ppm	0.00
Spiked Amount 2.000	Range	27 - 114	Recovery	=	361.00%#	
28) SURR6,TERPHENYL-D14	16.25	244	1319502	5.58	ppm	0.00
Spiked Amount 2.000	Range	23 - 139	Recovery	=	279.00%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.80	88	457331	10.06	ppm	94
3) Pyridine	6.66	79	781818	5.41	ppm	93
6) Nitrobenzene	11.29	77	959600	5.52	ppm	97
7) Naphthalene	11.97	128	1666811	5.47	ppm	100
8) 2-Methylnaphthalene	12.60	142	1137771	5.71	ppm	96
9) 1-Methylnaphthalene	12.70	142	1109389	5.74	ppm	99
12) Acenaphthylene	13.42	152	1620826	7.10	ppm	98
13) Dimethyl phthalate	13.28	163	1041012	6.89	ppm	100
14) Acenaphthene	13.58	153	1029241	6.99	ppm	94
15) Dibenzofuran	13.72	168	1562163	7.11	ppm	97
16) Fluorene	14.00	166	1150020	7.35	ppm	96
17) Diethylphthalate	13.88	149	1133249	7.34	ppm	98
19) Hexachlorobenzene	14.50	284	422429	5.63	ppm	91
20) Phenanthrene	14.76	178	1626750	5.38	ppm	99
21) Anthracene	14.80	178	1661891	5.71	ppm	100
22) Carbazole	14.91	167	1129090	5.22	ppm	99
23) Octachlorostyrene	15.71	380	108847	6.15	ppm	97
24) Di-n-butylphthalate	15.15	149	1821371	5.49	ppm	99
25) Fluoranthene	15.88	202	1755695	5.72	ppm	97
27) Pyrene	16.15	202	1858993	5.63	ppm	98
29) Butylbenzylphthalate	16.85	149	849550	6.14	ppm	98
30) bis(2-Ethylhexyl)phthalate	17.72	149	2401972	12.20	ppm	99
31) Benzo(a)anthracene	17.79	228	1758696	5.81	ppm	98
32) Chrysene	17.87	228	1710808	5.48	ppm	98
34) Di-n-octylphthalate	18.97	149	1730303	7.39	ppm	99
35) Benzo(b)Fluoranthene	20.18	252	1688099	5.99	ppm	98

(#) = qualifier out of range (m) = manual integration
 AR935.D LVI0626.M Fri Jun 27 09:59:26 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR935.D Vial: 9
Acq On : 26 Jun 2008 9:35 pm Operator: J.Wu
Sample : INITIAL CALIBRATION Inst : 5973C
~~Misc : 5.0/10 PPM STD 8270.LL Multipir: 1.00~~
MS Integration Params: RTEINT.P
Quant Time: Jun 27 08:54:05 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 08:53:59 2008
Response via : Initial Calibration
DataAcq Meth : LVI0626

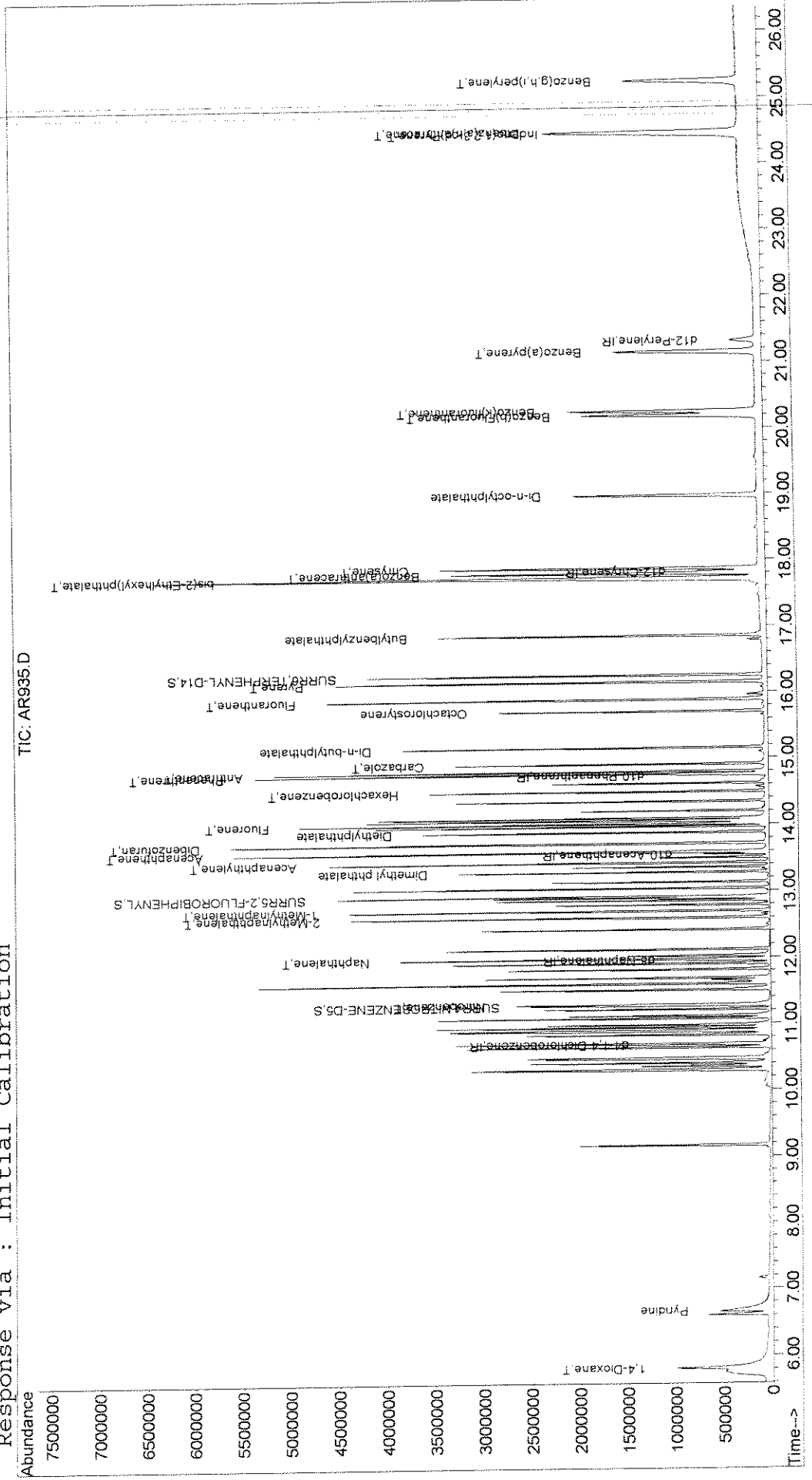
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.24	252	1691087	6.22	ppm	96
37) Benzo(a)pyrene	21.14	252	1496482	6.40	ppm	98
38) Indeno(1,2,3-cd)Pyrene	24.43	276	1738847	6.70	ppm	100
39) Dibenz(a,h)anthracene	24.46	278	1535063	7.17	ppm	98
40) Benzo(g,h,i)perylene	25.23	276	1407650	5.85	ppm	100

00486

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR935.D
Acq On : 26 Jun 2008 9:35 pm
Sample : INITIAL CALIBRATION
Misc : 5.0/10 PPM STD 8270.LL
MS Integration Params: RTEINT.P
Quant Time: Jun 27 8:54 2008
Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 09:31:03 2008
Response via : Initial Calibration



00487

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D
 Acq On : 26 Jun 2008 10:10 pm
 Sample : INITIAL CALIBRATION
 Misc : 10/20 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:55:15 2008

Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	111373	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	391253	1.00	ppm	0.00
10) d10-Acenaphthene	13.56	164	168806	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	405770	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	405112	1.00	ppm	0.00
33) d12-Perylene	21.32	264	299743	1.00	ppm	0.00

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	2461132	12.18	ppm	0.00
Spiked Amount 2.000	Range	22 - 124	Recovery	=	609.00%#	
11) SURR5,2-FLUOROBIPHENYL	12.92	172	2970352	11.90	ppm	0.00
Spiked Amount 2.000	Range	27 - 114	Recovery	=	595.00%#	
28) SURR6,TERPHENYL-D14	16.26	244	3344476	10.66	ppm	0.00
Spiked Amount 2.000	Range	23 - 139	Recovery	=	533.00%#	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.80	88	1313651	22.60	ppm	96
3) Pyridine	6.64	79	2284720	12.17	ppm	95
6) Nitrobenzene	11.29	77	2415559	11.39	ppm	89
7) Naphthalene	11.97	128	3698836	9.94	ppm	83
8) 2-Methylnaphthalene	12.60	142	2868533	11.80	ppm	90
9) 1-Methylnaphthalene	12.70	142	2738834	11.58	ppm	93
12) Acenaphthylene	13.42	152	3747088	11.51	ppm	80
13) Dimethyl phthalate	13.29	163	2768001	12.97	ppm	95
14) Acenaphthene	13.58	153	2744932	13.09	ppm	90
15) Dibenzofuran	13.72	168	3542698	11.25	ppm	75
16) Fluorene	14.00	166	2828974	12.58	ppm	97
17) Diethylphthalate	13.89	149	2682257m	12.08	ppm	
19) Hexachlorobenzene	14.50	284	1139869	11.99	ppm	97
20) Phenanthrene	14.76	178	3583198	9.34	ppm	80
21) Anthracene	14.80	178	3655492	9.91	ppm	78
22) Carbazole	14.91	167	2394474	8.72	ppm	97
24) Di-n-butylphthalate	15.16	149	3764118m	8.94	ppm	
25) Fluoranthene	15.89	202	4080097	10.49	ppm	84
27) Pyrene	16.16	202	4293309	9.80	ppm	84
29) Butylbenzylphthalate	16.85	149	2330839	12.68	ppm	95
30) bis(2-Ethylhexyl)phthalate	17.73	149	5694908m	21.76	ppm	
31) Benzo(a)anthracene	17.79	228	4565937	11.36	ppm	90
32) Chrysene	17.87	228	4388707	10.58	ppm	92
34) Di-n-octylphthalate	18.97	149	4945866	15.46	ppm	98
35) Benzo(b)Fluoranthene	20.20	252	4617434	12.00	ppm	97
36) Benzo(k)fluoranthene	20.27	252	4491164	12.09	ppm	93

(#) = qualifier out of range (m) = manual integration
 AR936.D LVI0626.M Fri Jun 27 10:06:06 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D Vial: 10
 Acq On : 26 Jun 2008 10:10 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 10/20 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 08:55:15 2008 Quant Results File: LVI0626.RES

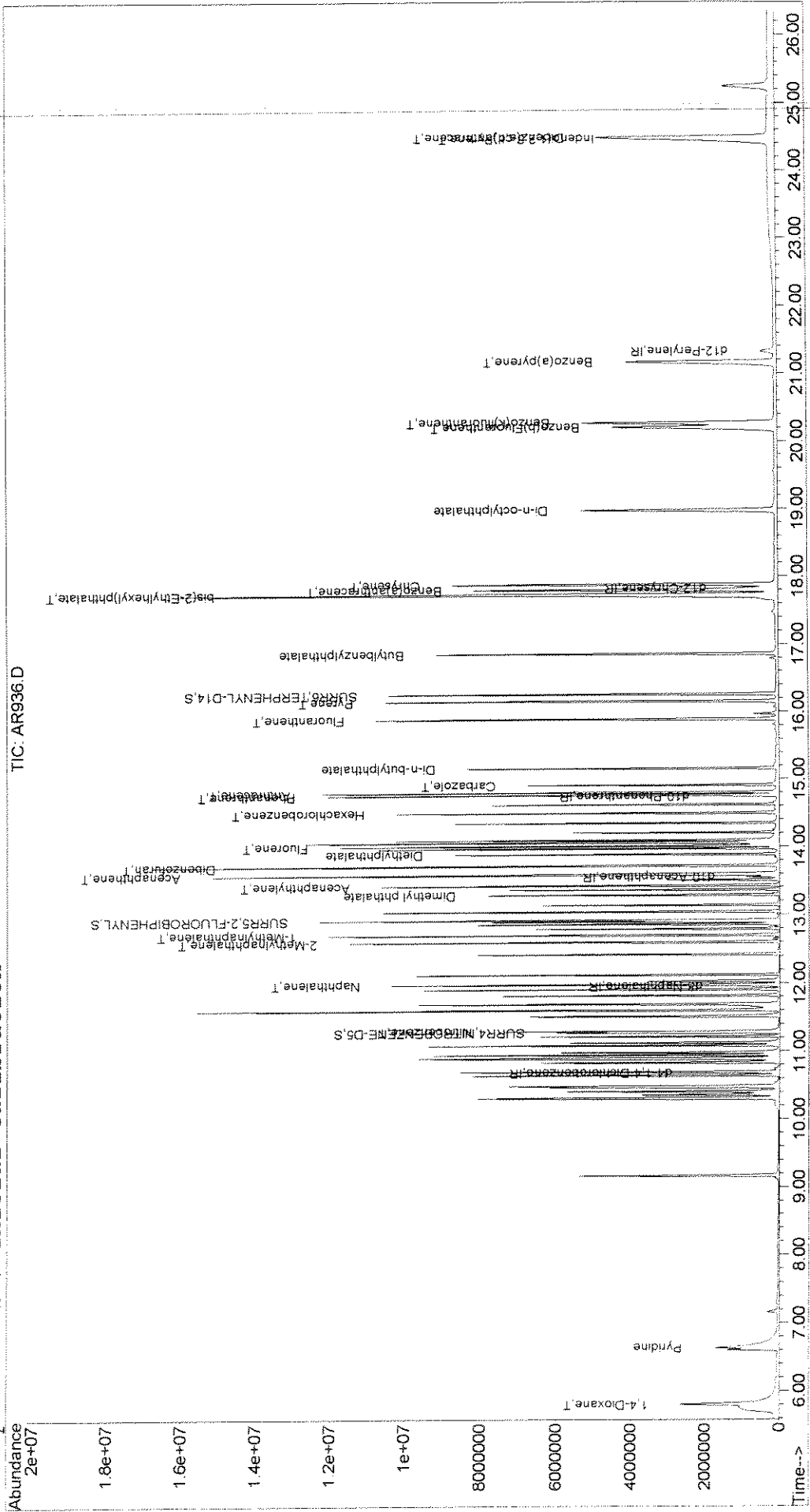
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Benzo(a)pyrene	21.16	252	4136336	12.97	ppm	99
38) Indeno(1,2,3-cd)Pyrene	24.45	276	3644595	10.34	ppm	95
39) Dibenz(a,h)anthracene	24.49	278	3619423	12.42	ppm	99

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR936.D Vial: 10
 Acq On : 26 Jun 2008 10:10 pm Operator: J.Wu
 Sample : INITIAL CALIBRATION Inst : 5973C
 Misc : 10/20 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:05 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



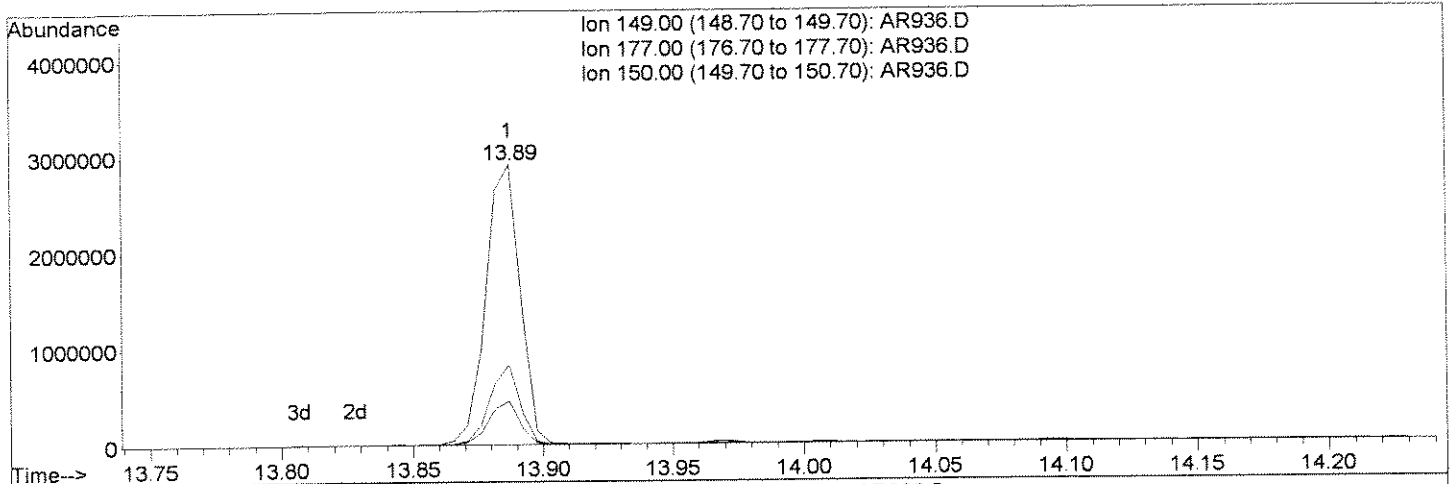
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D
 Acq On : 26 Jun 2008 10:10 pm
 Sample : INITIAL CALIBRATION
 Misc : 10/20 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:55 2008

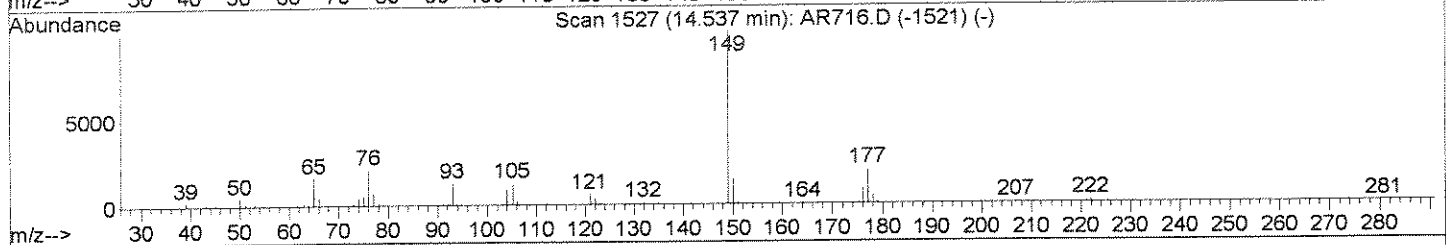
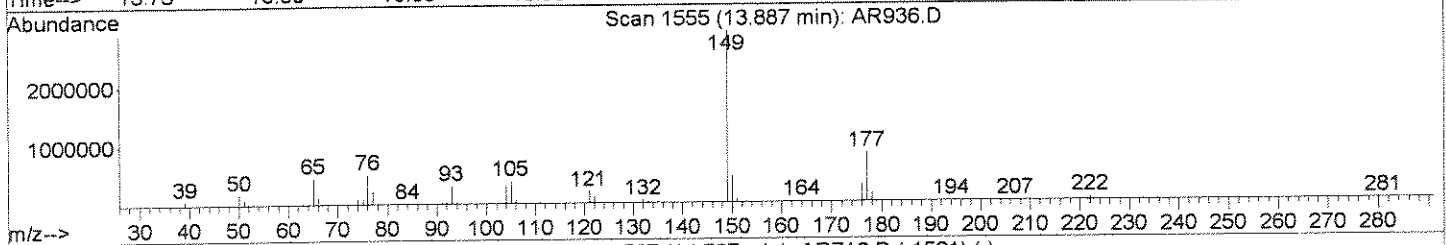
Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Multiple Level Calibration



Ion 149.00 (148.70 to 149.70): AR936.D
 Ion 177.00 (176.70 to 177.70): AR936.D
 Ion 150.00 (149.70 to 150.70): AR936.D



TIC: AR936.D

(17) Diethylphthalate

13.89min 12.10ppm

response 2686768

Ion	Exp%	Act%
149.00	100	100
177.00	21.80	28.47#
150.00	11.80	15.41#
0.00	0.00	0.00

B

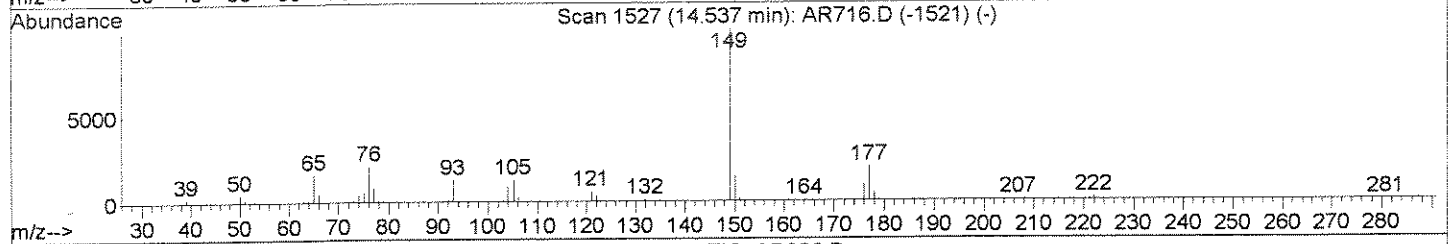
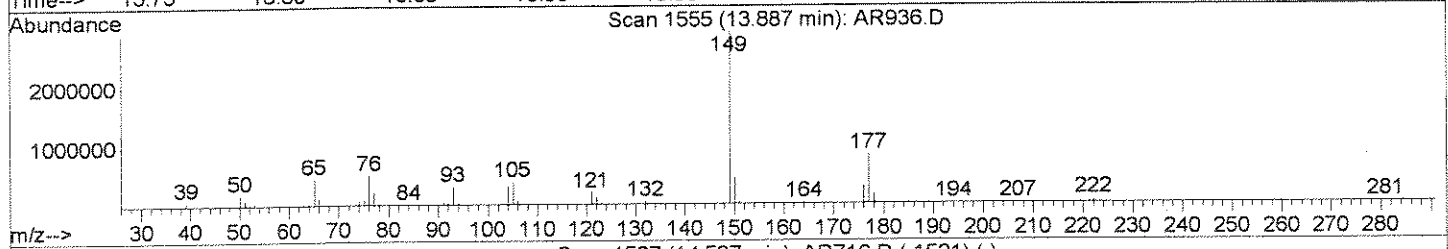
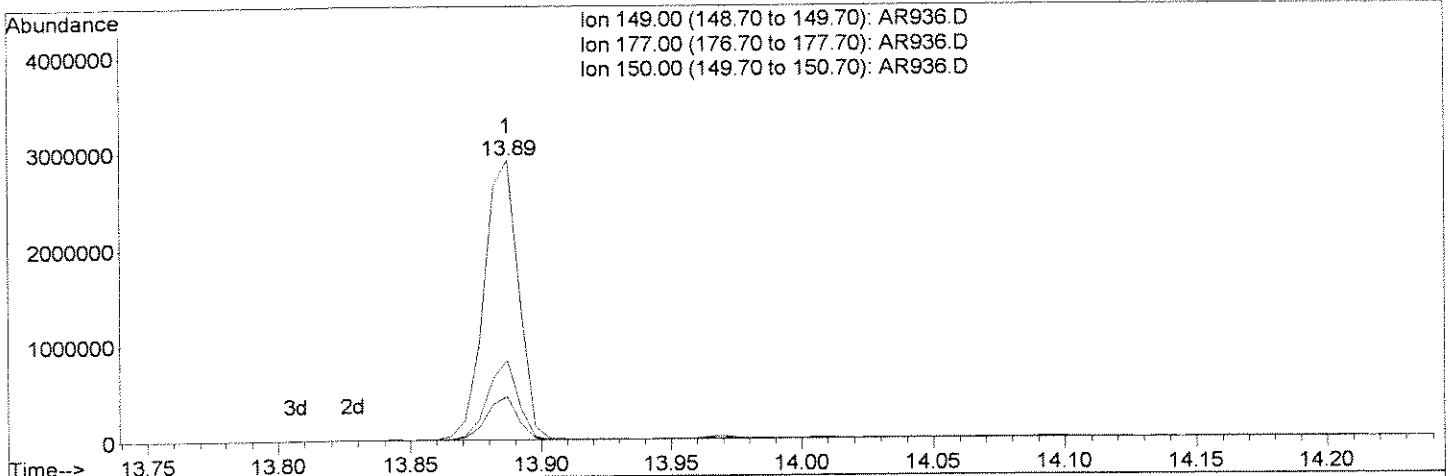
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D
 Acq On : 26 Jun 2008 10:10 pm
 Sample : INITIAL CALIBRATION
 Misc : 10/20 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:55 2008

Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Multiple Level Calibration



(17) Diethylphthalate

13.89min 12.08ppm m

response 2682257

Ion	Exp%	Act%
149.00	100	100
177.00	21.80	28.47#
150.00	11.80	15.57#
0.00	0.00	0.00

A = 4/27
Wu 4/10

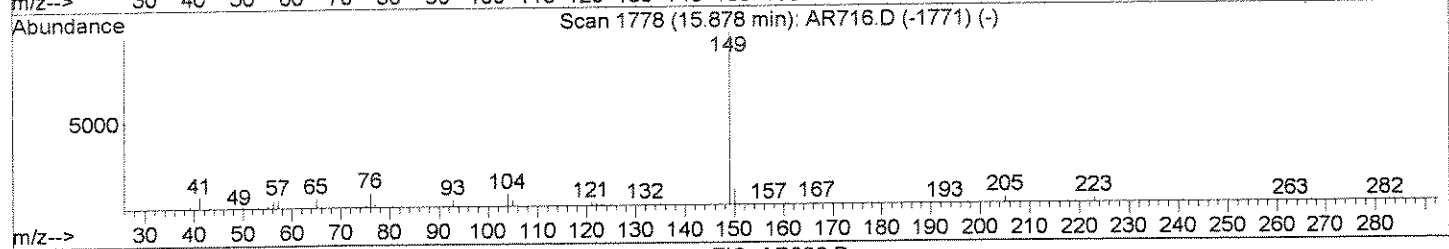
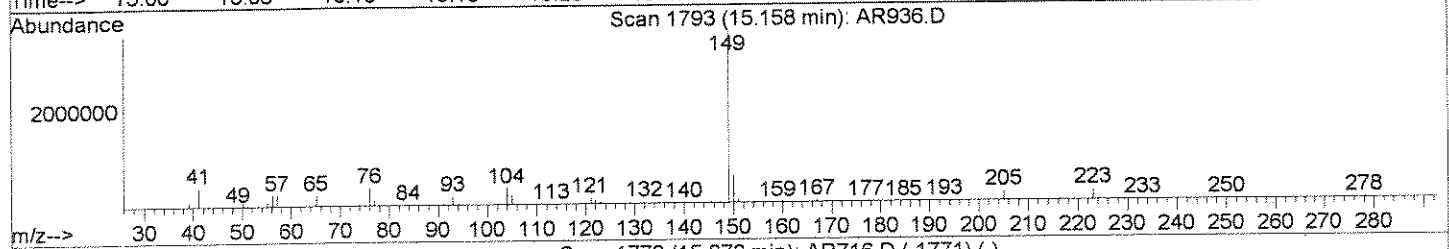
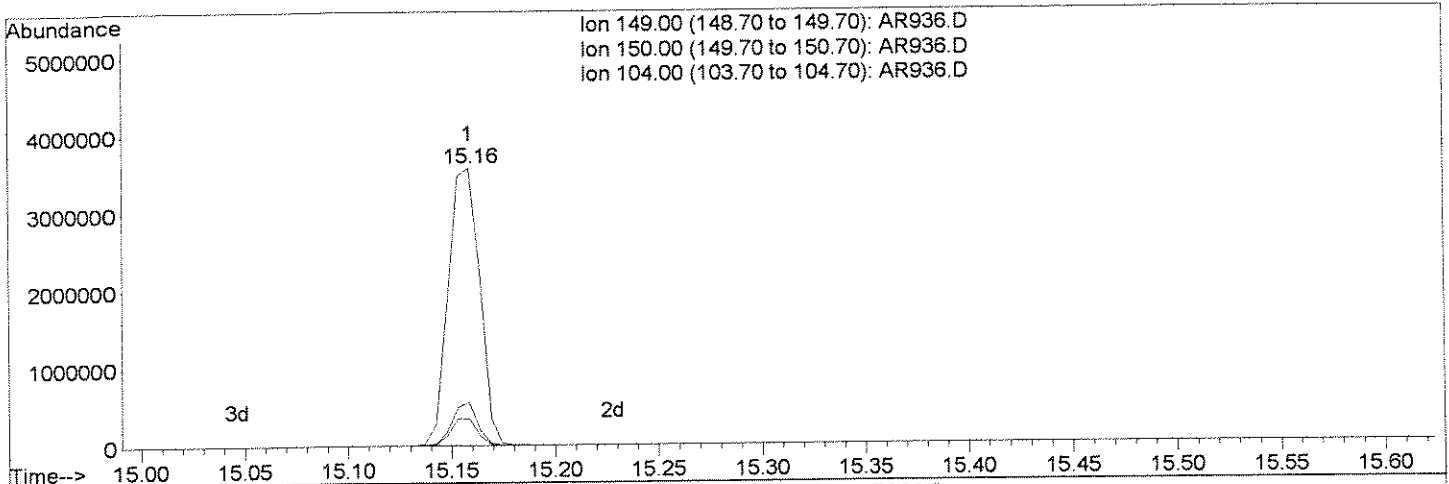
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D
 Acq On : 26 Jun 2008 10:10 pm
 Sample : INITIAL CALIBRATION
 Misc : 10/20 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:55 2008

Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Multiple Level Calibration



TIC: AR936.D

(24) Di-n-butylphthalate

15.16min 8.95ppm

response 3767124

Ion	Exp%	Act%
149.00	100	100
150.00	9.20	15.60#
104.00	6.30	9.76#
0.00	0.00	0.00

13

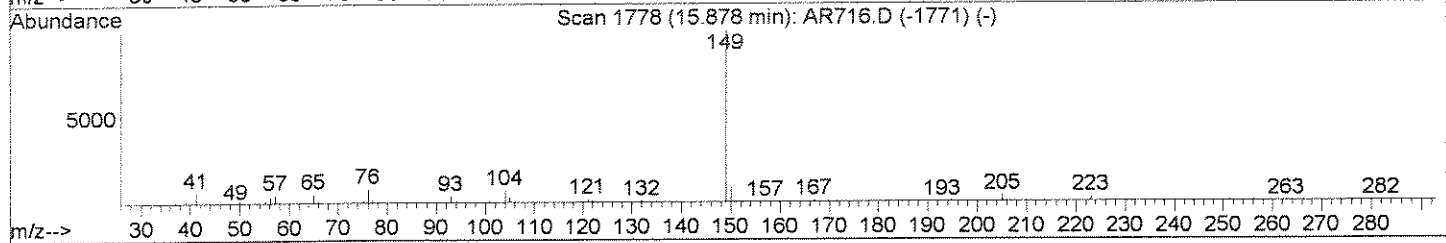
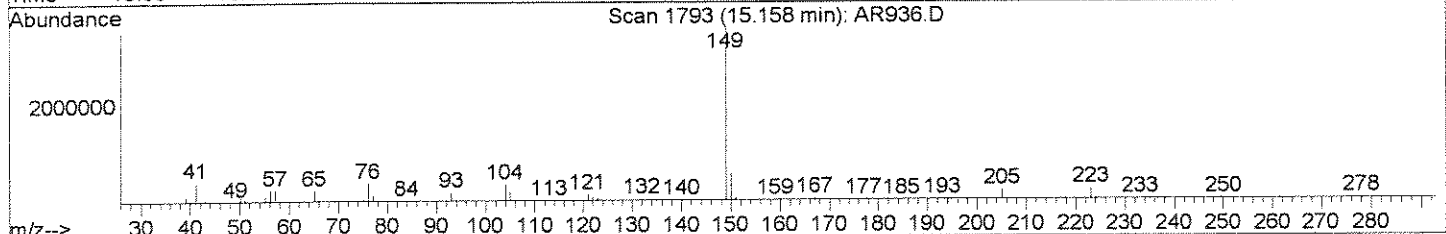
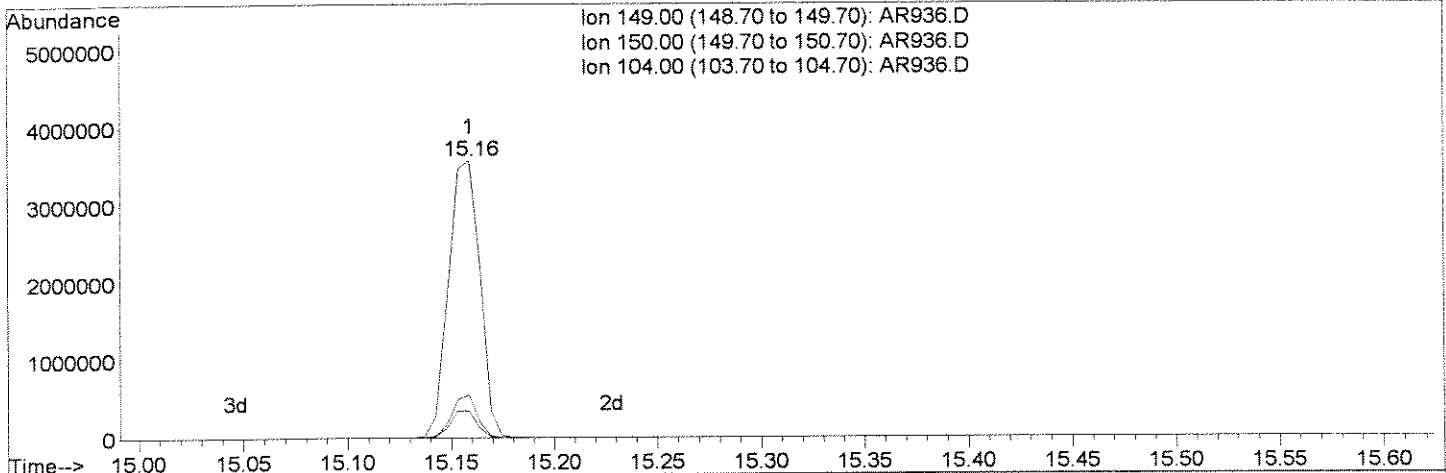
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D
 Acq On : 26 Jun 2008 10:10 pm
 Sample : INITIAL CALIBRATION
 Misc : 10/20 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:56 2008

Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Multiple Level Calibration



(24) Di-n-butyphthalate

15.16min 8.94ppm m

response 3764118

Ion	Exp%	Act%
149.00	100	100
150.00	9.20	15.62#
104.00	6.30	9.78#
0.00	0.00	0.00

mw 6/17
A 6/27

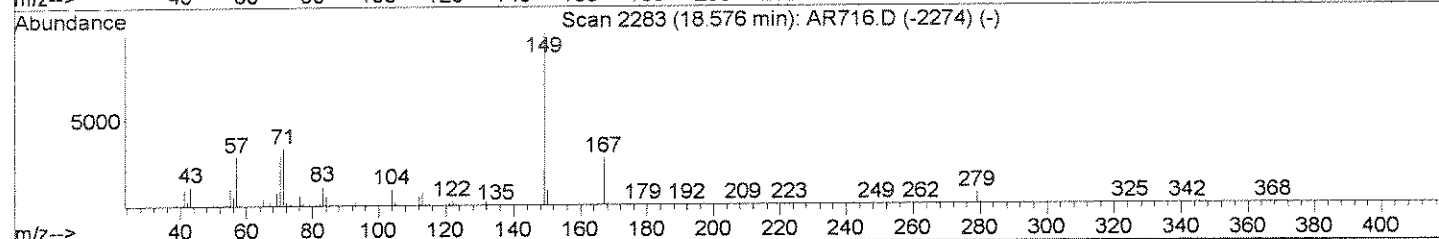
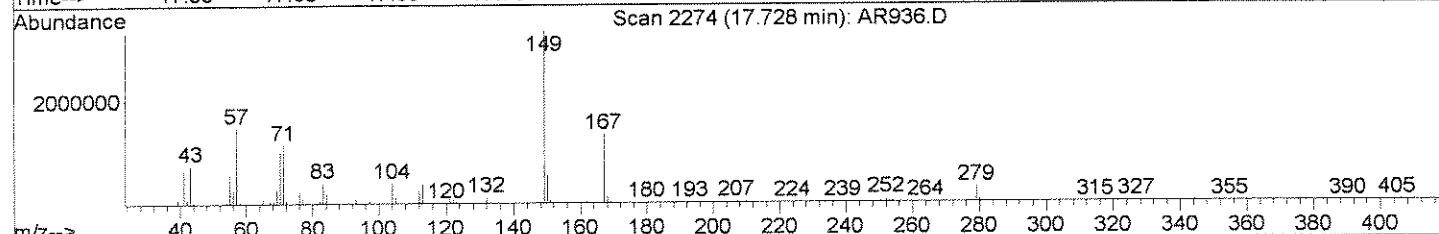
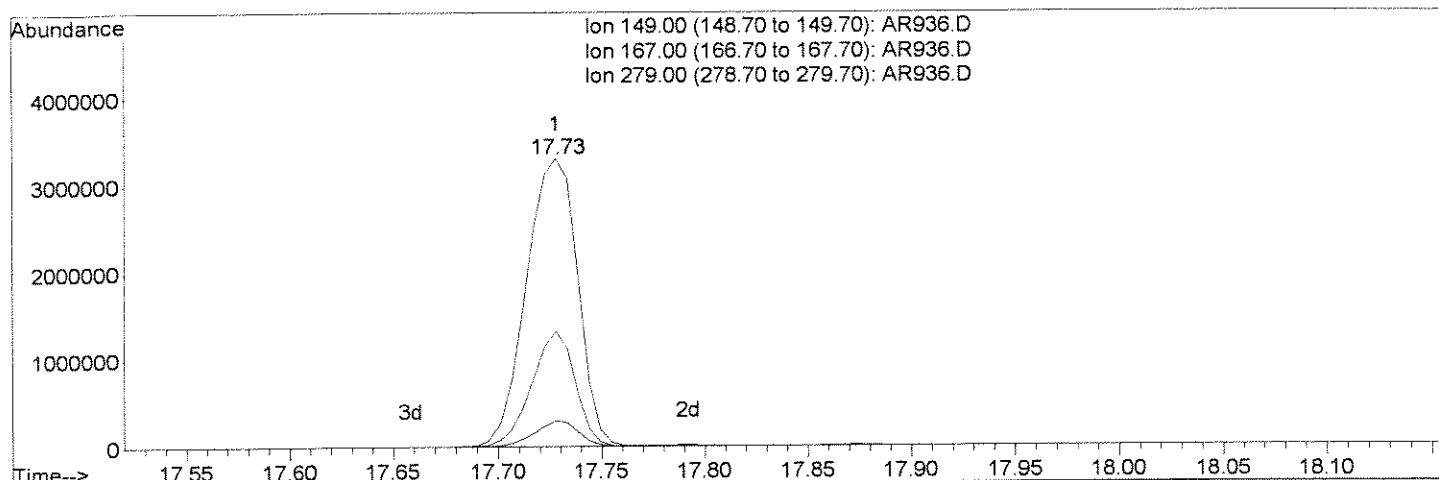
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D
 Acq On : 26 Jun 2008 10:10 pm
 Sample : INITIAL CALIBRATION
 Misc : 10/20 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:56 2008

Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Single Level Calibration



(30) bis(2-Ethylhexyl)phthalate (T)

17.73min 21.76ppm

response 5692915

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	39.99#
279.00	6.90	9.02#
0.00	0.00	0.00

B

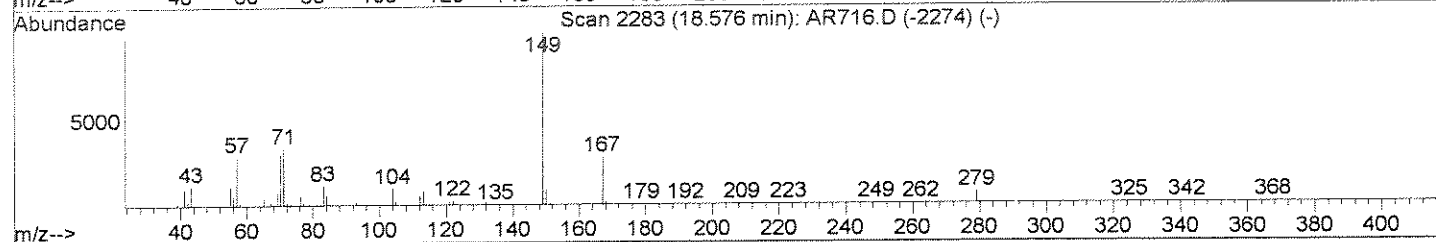
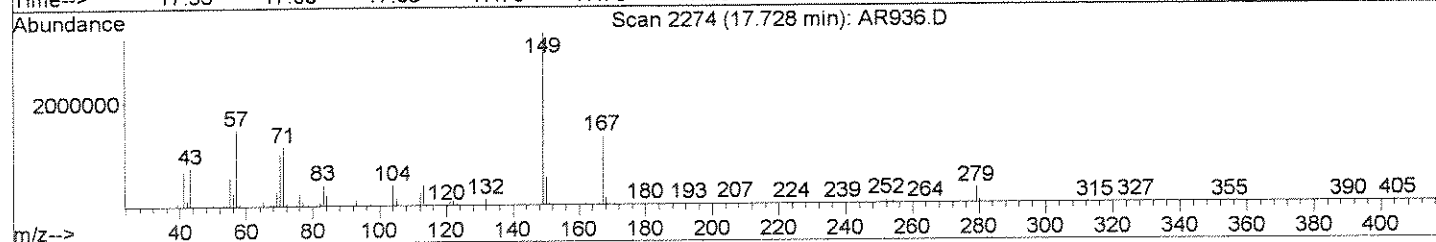
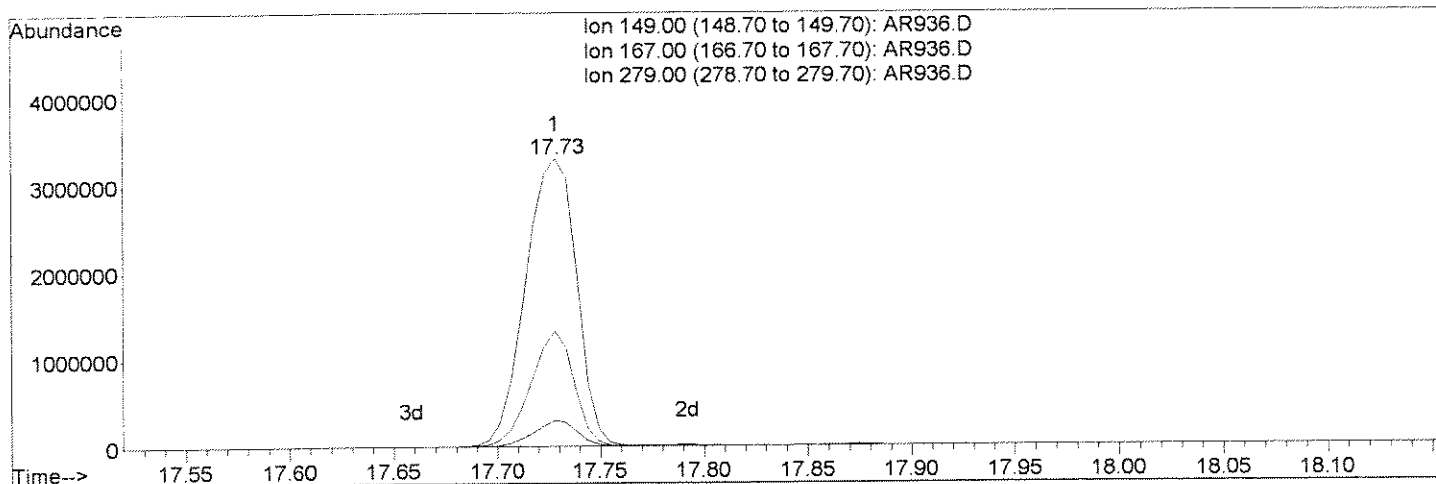
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR936.D
 Acq On : 26 Jun 2008 10:10 pm
 Sample : INITIAL CALIBRATION
 Misc : 10/20 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 8:56 2008

Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 08:55:07 2008
 Response via : Single Level Calibration



TIC: AR936.D

(30) bis(2-Ethylhexyl)phthalate (T)

17.73min 21.76ppm

response 5694908

Ion	Exp%	Act%
149.00	100	100
167.00	28.10	40.01#
279.00	6.90	9.02#
0.00	0.00	0.00

A - 6/27

mv 6/27

Evaluate Continuing Calibration Report

Data File : J:\ACQUATA\5973C\DATA\062608\AR937.D
 Acq On : 26 Jun 2008 10:45 pm
 Sample : ICV 1
 Misc : 1.0 PPM STD 8270.LL ICV 1
 MS Integration Params: RTEINT.P

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration * not used

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	74	0.00
2 T	1,4-Dioxane	0.574	0.789	* -37.5#	109	0.02
3	Pyridine	1.903	5.765	* -202.9#	227#	-0.01
4 IR	d8-Naphthalene	1.000	1.000	0.0	73	0.00
5 S	SURR4,NITROBENZENE-D5	0.573	1.034	* -80.5#	138	0.00
6 T	Nitrobenzene	0.595	0.990	-66.4#	127	0.00
7 T	Naphthalene	1.028	1.044	-1.6	76	0.00
8 T	2-Methylnaphthalene	0.687	0.639	7.0	73	0.00
9 T	1-Methylnaphthalene	0.668	0.614	8.1	73	0.00
10 IR	d10-Acenaphthene	1.000	1.000	0.0	72	0.00
11 S	SURR5,2-FLUOROBIPHENYL	1.685	2.752	* -63.3#	143	0.00
12 T	Acenaphthylene	2.191	1.871	14.6	74	0.00
13	Dimethyl phthalate	1.503	1.302	13.4	82	0.00
14 T	Acenaphthene	1.410	1.139	19.2	70	0.00
15 T	Dibenzofuran	2.125	1.748	17.7	74	0.00
16 T	Fluorene	1.451	1.755	-21.0#	100	0.00
17	Diethylphthalate	1.640	1.392	15.1	82	0.00
18 IR	d10-Phenanthrene	1.000	1.000	0.0	104	0.00
19 T	Hexachlorobenzene	0.259	0.265	-2.3	114	0.00
20 T	Phenanthrene	1.019	1.018	0.1	105	0.00
21 T	Anthracene	0.985	0.987	-0.2	107	0.00
22 T	Carbazole	0.724	0.814	-12.4	108	0.00
23	Octachlorostyrene	0.061	0.057	6.6	99	0.00
24	Di-n-butylphthalate	1.074	3.394	* -216.0#	348#	0.00
25 T	Fluoranthene	1.045	1.003	4.0	106	0.00
26 IR	d12-Chrysene	1.000	1.000	0.0	82	0.00
27 T	Pyrene	1.171	1.368	-16.8	100	0.00
28 S	SURR6,TERPHENYL-D14	0.846	2.183	* -158.0#	219#	0.00
29	Butylbenzylphthalate	0.506	0.497	1.8	89	0.00
30 T	bis(2-Ethylhexyl)phthalate	0.724	1.192	* -64.6#	148	0.00
31 T	Benzo(a)anthracene	1.091	1.075	1.5	82	0.00
32 T	Chrysene	1.119	1.075	3.9	82	0.00
33 IR	d12-Perylene	1.000	1.000	0.0	81	-0.01
34	Di-n-octylphthalate	1.274	1.213	4.8	92	0.00
35 T	Benzo(b)Fluoranthene	1.420	1.379	2.9	81	0.00
36 T	Benzo(k)fluoranthene	1.372	1.406	-2.5	85	0.00

(#) = Out of Range
 AR937.D LVI0626.M

Fri Jun 27 10:09:45 2008

JW

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D Vial: 11
 Acq On : 26 Jun 2008 10:45 pm Operator: J.Wu
 Sample : ICV 1 Inst : 5973C
 Misc : 1.0 PPM STD 8270.LL ICV 1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	1.203	1.144	4.9	83	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.361	1.443	-6.0	88	0.00
39 T	Dibenz(a,h)anthracene	1.132	1.220	-7.8	92	0.00
40 T	Benzo(g,h,i)perylene	1.190	1.317	-10.7	86	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\062608\AR937.D
 Acq On : 26 Jun 2008 10:45 pm
 Sample : ICV 1
 Misc : 1.0 PPM STD 8270.LL ICV 1
 MS Integration Params: RTEINT.P

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

*only for *12,13,14,15,16,30,38,39 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	74	0.00
2	T 1,4-Dioxane	2.000	2.751	-37.5#	109	0.02
3	Pyridine	1.000	3.029	-202.9#	227	-0.01
4	IR d8-Naphthalene	1.000	1.000	0.0	73	0.00
5	S SURR4,NITROBENZENE-D5	1.000	1.806	-80.6#	138	0.00
6	T Nitrobenzene	1.000	1.663	-66.3#	127	0.00
7	T Naphthalene	1.000	1.016	-1.6	76	0.00
8	T 2-Methylnaphthalene	1.000	0.929	7.1	73	0.00
9	T 1-Methylnaphthalene	1.000	0.920	8.0	73	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	72	0.00
11	S SURR5,2-FLUOROBIPHENYL	1.000	1.525	-52.5#	143	0.00
12	T Acenaphthylene	1.000	0.894	10.6	74	0.00
13	Dimethyl phthalate	1.000	0.919	8.1	82	0.00
14	T Acenaphthene	1.000	0.861	13.9	70	0.00
15	T Dibenzofuran	1.000	0.874	12.6	74	0.00
16	T Fluorene	1.000	1.107	-10.7	100	0.00
17	Diethylphthalate	1.000	0.849	15.1	82	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	104	0.00
19	T Hexachlorobenzene	1.000	1.022	-2.2	114	0.00
20	T Phenanthrene	1.000	0.999	0.1	105	0.00
21	T Anthracene	1.000	1.002	-0.2	107	0.00
22	T Carbazole	1.000	1.124	-12.4	108	0.00
23	Octachlorostyrene	1.000	0.946	5.4	99	0.00
24	Di-n-butylphthalate	1.000	3.160	-216.0#	348	0.00
25	T Fluoranthene	1.000	0.960	4.0	106	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	82	0.00
27	T Pyrene	1.000	1.168	-16.8	100	0.00
28	S SURR6, TERPHENYL-D14	1.000	2.579	-157.9#	219	0.00
29	Butylbenzylphthalate	1.000	0.982	1.8	89	0.00
30	T bis(2-Ethylhexyl)phthalate	2.000	3.294	-64.7#	148	0.00
31	T Benzo(a)anthracene	1.000	0.985	1.5	82	0.00
32	T Chrysene	1.000	0.961	3.9	82	0.00
33	IR d12-Perylene	1.000	1.000	0.0	81	-0.01
34	Di-n-octylphthalate	1.000	1.054	-5.4	92	0.00
35	T Benzo(b)Fluoranthene	1.000	0.972	2.8	81	0.00
36	T Benzo(k)fluoranthene	1.000	1.025	-2.5	85	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D
 Acq On : 26 Jun 2008 10:45 pm
 Sample : ICV 1
 Misc : 1.0 PPM STD 8270.LL ICV 1
 MS Integration Params: RTEINT.P

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	0.951	4.9	83	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.000	1.042	-4.2	88	0.00
39 T	Dibenz(a,h)anthracene	1.000	1.055	-5.5	92	0.00
40 T	Benzo(g,h,i)perylene	1.000	1.107	-10.7	86	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D
 Acq On : 26 Jun 2008 10:45 pm
 Sample : ICV 1
 Misc : 1.0 PPM STD 8270.LL ICV 1
 MS Integration Params: RTEINT.P

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

for Surrogate 4 (-), 18 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	68	0.00
2 T	1,4-Dioxane	0.574	0.395	31.2#	48#	0.02
3	Pyridine	1.903	2.882	-51.4#	98	-0.01
4 IR	d8-Naphthalene	1.000	1.000	0.0	69	0.00
5 S	SURR4, NITROBENZENE-D5	0.573	0.517	9.8	58	0.00
6 T	Nitrobenzene	0.595	0.495	16.8	55	0.00
7 T	Naphthalene	1.028	0.522	49.2#	34#	0.00
8 T	2-Methylnaphthalene	0.687	0.319	53.6#	31#	0.00
9 T	1-Methylnaphthalene	0.668	0.307	54.0#	30#	0.00
10 IR	d10-Acenaphthene	1.000	1.000	0.0	78	0.00
11 S	SURR5, 2-FLUOROBIPHENYL	1.685	1.376	18.3	62	0.00
12 T	Acenaphthylene	2.191	0.936	57.3#	32#	0.00
13	Dimethyl phthalate	1.503	0.651	56.7#	34#	0.00
14 T	Acenaphthene	1.410	0.570	59.6#	31#	0.00
15 T	Dibenzofuran	2.125	0.874	58.9#	31#	0.00
16 T	Fluorene	1.451	0.878	39.5#	44#	0.00
17	Diethylphthalate	1.640	0.696	57.6#	34#	0.00
18 IR	d10-Phenanthrene	1.000	1.000	0.0	97	0.00
19 T	Hexachlorobenzene	0.259	0.133	48.6#	50#	0.00
20 T	Phenanthrene	1.019	0.509	50.0#	46#	0.00
21 T	Anthracene	0.985	0.494	49.8#	46#	0.00
22 T	Carbazole	0.724	0.407	43.8#	49#	0.00
23	Octachlorostyrene	0.061	0.029#	52.5#	42#	0.00
24	Di-n-butylphthalate	1.074	1.697	-58.0#	142	0.00
25 T	Fluoranthene	1.045	0.502	52.0#	43#	0.00
26 IR	d12-Chrysene	1.000	1.000	0.0	77	0.00
27 T	Pyrene	1.171	0.684	41.6#	42#	0.00
28 S	SURR6, TERPHENYL-D14	0.846	1.091	-29.0#	93	0.00
29	Butylbenzylphthalate	0.506	0.248	51.0#	35#	0.00
30 T	bis(2-Ethylhexyl)phthalate	0.724	0.596	17.7	59	0.00
31 T	Benzo(a)anthracene	1.091	0.537	50.8#	35#	0.00
32 T	Chrysene	1.119	0.538	51.9#	35#	0.00
33 IR	d12-Perylene	1.000	1.000	0.0	73	-0.01
34	Di-n-octylphthalate	1.274	0.607	52.4#	33#	0.00
35 T	Benzo(b)Fluoranthene	1.420	0.690	51.4#	34#	0.00
36 T	Benzo(k)fluoranthene	1.372	0.703	48.8#	35#	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D Vial: 11
 Acq On : 26 Jun 2008 10:45 pm Operator: J.Wu
 Sample : ICV 1 Inst : 5973C
 Misc : 1.0 PPM STD 8270.LL ICV I Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	1.203	0.572	52.5#	33#	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.361	0.721	47.0#	35#	0.00
39 T	Dibenz(a,h)anthracene	1.132	0.610	46.1#	35#	0.00
40 T	Benzo(g,h,i)perylene	1.190	0.659	44.6#	37#	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D
 Acq On : 26 Jun 2008 10:45 pm
 Sample : ICV 1
 Misc : 1.0 PPM STD 8270.LL ICV 1
 MS Integration Params: RTEINT.P

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

*only for * " 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	68	0.00
2 T	1,4-Dioxane	4.000	2.751	31.2#	48	0.02
3	Pyridine	2.000	3.029	-51.4#	98	-0.01
4 IR	d8-Naphthalene	1.000	1.000	0.0	69	0.00
5 S	SURR4,NITROBENZENE-D5	2.000	1.806	9.7	58	0.00
6 T	Nitrobenzene	2.000	1.663	16.8	55	0.00
7 T	Naphthalene	2.000	1.016	49.2#	34	0.00
8 T	2-Methylnaphthalene	2.000	0.929	53.5#	31	0.00
9 T	1-Methylnaphthalene	2.000	0.920	54.0#	30	0.00
10 IR	d10-Acenaphthene	1.000	1.000	0.0	78	0.00
11 S	SURR5,2-FLUOROBIPHENYL	2.000	1.525	23.8#	62	0.00
12 T	Acenaphthylene	2.000	0.894	55.3#	32	0.00
13	Dimethyl phthalate	2.000	0.919	54.0#	34	0.00
14 T	Acenaphthene	2.000	0.861	57.0#	31	0.00
15 T	Dibenzofuran	2.000	0.874	56.3#	31	0.00
16 T	Fluorene	2.000	1.107	44.6#	44	0.00
17	Diethylphthalate	2.000	0.849	57.6#	34	0.00
18 IR	d10-Phenanthrene	1.000	1.000	0.0	97	0.00
19 T	Hexachlorobenzene	2.000	1.022	48.9#	50	0.00
20 T	Phenanthrene	2.000	0.999	50.0#	46	0.00
21 T	Anthracene	2.000	1.002	49.9#	46	0.00
22 T	Carbazole	2.000	1.124	43.8#	49	0.00
23	Octachlorostyrene	2.000	0.946	52.7#	42	0.00
24	Di-n-butylphthalate	2.000	3.160	-58.0#	142	0.00
25 T	Fluoranthene	2.000	0.960	52.0#	43	0.00
26 IR	d12-Chrysene	1.000	1.000	0.0	77	0.00
27 T	Pyrene	2.000	1.168	41.6#	42	0.00
28 S	SURR6, TERPHENYL-D14	2.000	2.579	-29.0#	93	0.00
29	Butylbenzylphthalate	2.000	0.982	50.9#	35	0.00
30 T	bis(2-Ethylhexyl)phthalate	4.000	3.294	17.6	59	0.00
31 T	Benzo(a)anthracene	2.000	0.985	50.8#	35	0.00
32 T	Chrysene	2.000	0.961	52.0#	35	0.00
33 IR	d12-Perylene	1.000	1.000	0.0	73	-0.01
34	Di-n-octylphthalate	2.000	1.054	47.3#	33	0.00
35 T	Benzo(b)Fluoranthene	2.000	0.972	51.4#	34	0.00
36 T	Benzo(k)fluoranthene	2.000	1.025	48.8#	35	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D Vial: 11
 Acq On : 26 Jun 2008 10:45 pm Operator: J.Wu
 Sample : ICV 1 Inst : 5973C
 Misc : 1.0 PPM STD 8270.LL ICV 1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	0.951	52.4#	33	0.00
38 T	Indeno(1,2,3-cd)Pyrene	2.000	1.042	47.9#	35	0.00
39 T	Dibenz(a,h)anthracene	2.000	1.055	47.3#	35	0.00
40 T	Benzo(g,h,i)perylene	2.000	1.107	44.6#	37	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\062608\AR937.D
 Acq On : 26 Jun 2008 10:45 pm
 Sample : ICV 1
 Misc : 1.0 PPM STD 8270.LL ICV 1
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:07:51 2008

Vial: 11
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	56766	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	225349	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	116734	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	310631	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	230546	1.00	ppm	0.00
33) d12-Perylene	21.31	264	168522	1.00	ppm	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	233068	1.81	ppm	0.00
Spiked Amount 2.000	Range	22 - 124	Recovery	=	90.50%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	321213	1.52	ppm	0.00
Spiked Amount 2.000	Range	27 - 114	Recovery	=	76.00%	
28) SURR6,TERPHENYL-D14	16.25	244	503281	2.58	ppm	0.00
Spiked Amount 2.000	Range	23 - 139	Recovery	=	129.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.82	88	89582	2.75	ppm	87
3) Pyridine	6.67	79	327229	3.03	ppm	97
6) Nitrobenzene	11.29	77	223075	1.66	ppm	76
7) Naphthalene	11.97	128	235323	1.02	ppm	99
8) 2-Methylnaphthalene	12.59	142	143966	0.93	ppm	98
9) 1-Methylnaphthalene	12.70	142	138383	0.92	ppm	97
12) Acenaphthylene	13.42	152	218462	0.89	ppm	99
13) Dimethyl phthalate	13.28	163	152006	0.92	ppm	100
14) Acenaphthene	13.58	153	133009	0.86	ppm	97
15) Dibenzofuran	13.72	168	204094	0.87	ppm	99
16) Fluorene	14.00	166	204870	1.11	ppm	96
17) Diethylphthalate	13.88	149	162532	0.85	ppm	98
19) Hexachlorobenzene	14.49	284	82354	1.02	ppm	92
20) Phenanthrene	14.76	178	316322	1.00	ppm	99
21) Anthracene	14.80	178	306615	1.00	ppm	99
22) Carbazole	14.90	167	252887	1.12	ppm	97
23) Octachlorostyrene	15.70	380	17788	0.95	ppm	77
24) Di-n-butylphthalate	15.15	149	1054367	3.16	ppm	99
25) Fluoranthene	15.89	202	311669	0.96	ppm	100
27) Pyrene	16.15	202	315414	1.17	ppm	100
29) Butylbenzylphthalate	16.85	149	114556	0.98	ppm	95
31) Benzo(a)anthracene	17.78	228	247730	0.98	ppm	96
32) Chrysene	17.86	228	247952	0.96	ppm	96
34) Di-n-octylphthalate	18.96	149	204419	1.05	ppm	98
35) Benzo(b)Fluoranthene	20.17	252	232454	0.97	ppm	98
36) Benzo(k)fluoranthene	20.24	252	236947	1.03	ppm	96

(#) = qualifier out of range (m) = manual integration
 AR937.D LVI0626.M Fri Jun 27 10:12:55 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR937.D Vial: 11
 Acq On : 26 Jun 2008 10:45 pm Operator: J.Wu
 Sample : ICV 1 Inst : 5973C
 Misc : ~~1.0 PPM STD 8270.LL ICV 1~~ Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:07:51 2008 Quant Results File: LVI0626.RES

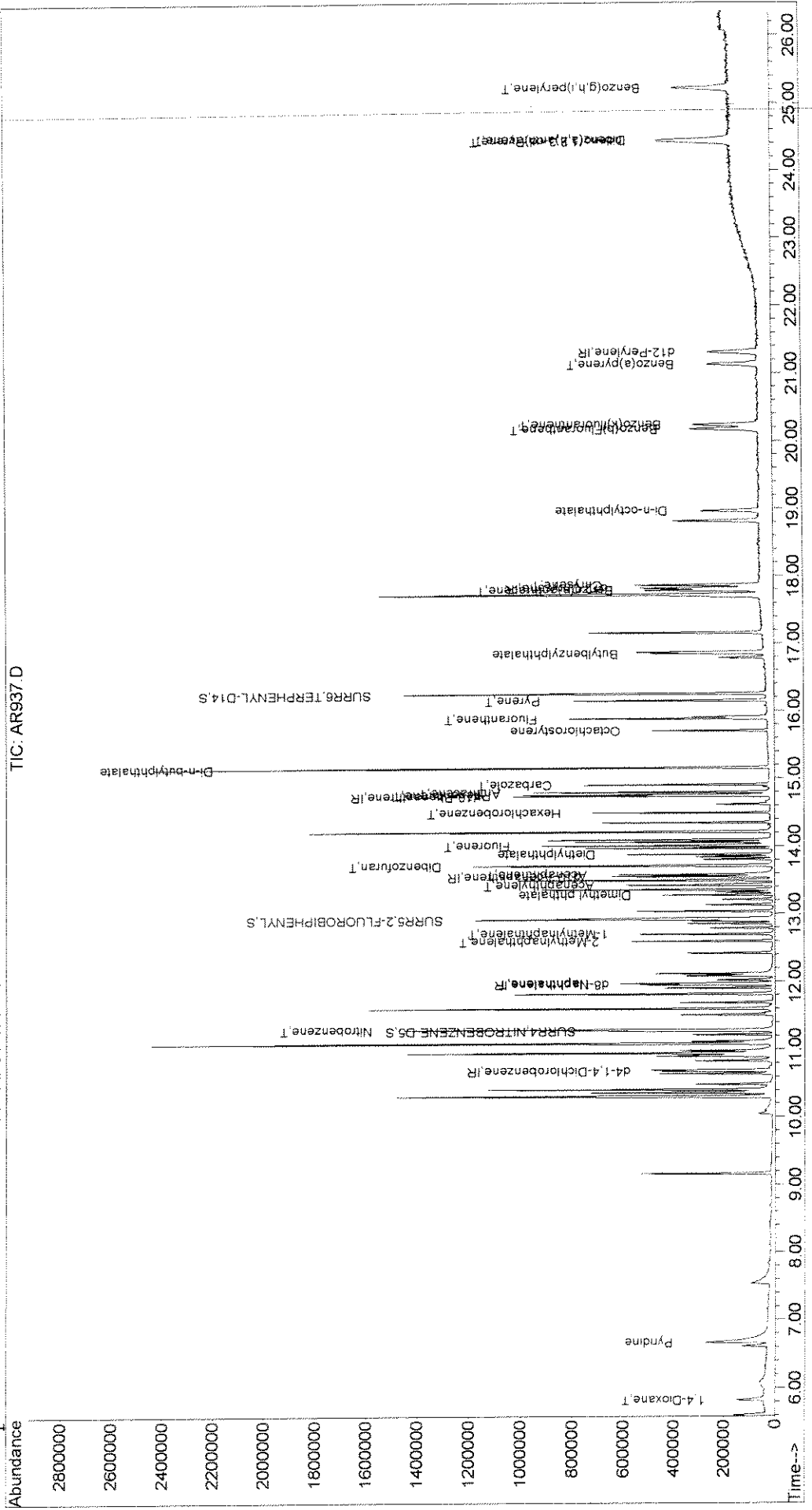
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Benzo(a)pyrene	21.13	252	192783	0.95	ppm	97
38) Indeno(1,2,3-cd)Pyrene	24.43	276	243167	1.04	ppm	100
39) Dibenz(a,h)anthracene	24.45	278	205612	1.05	ppm	94
40) Benzo(g,h,i)perylene	25.22	276	221976	1.11	ppm	98

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR937.D Vial: 11
 Acq On : 26 Jun 2008 10:45 pm Operator: J.Wu
 Sample : ICV 1 Inst : 5973C
 Misc : 1.0 PPM STD 8270.LL ICV 1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:07 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



00507

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR938.D
 Acq On : 26 Jun 2008 11:20 pm
 Sample : ICV 2
 Misc : 2.0 PPM STD 8270.LL ICV 2
 MS Integration Params: RTEINT.P

Vial: 12
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	101	0.00
2 T	1,4-Dioxane	0.574	0.282	50.9#	51	0.01
③	Pyridine	1.903	1.374	27.8#	70	0.00
4 IR	d8-Naphthalene	1.000	1.000	0.0	86	0.00
5 S	SURR4, NITROBENZENE-D5	0.573	0.000#	100.0#	0#	-11.27#
6 T	Nitrobenzene	0.595	0.000#	100.0#	0#	-11.29#
7 T	Naphthalene	1.028	0.000#	100.0#	0#	-11.97#
8 T	2-Methylnaphthalene	0.687	0.000#	100.0#	0#	-12.60#
9 T	1-Methylnaphthalene	0.668	0.000#	100.0#	0#	-12.70#
10 IR	d10-Acenaphthene	1.000	1.000	0.0	86	0.00
11 S	SURR5, 2-FLUOROBIPHENYL	1.685	0.000#	100.0#	0#	-12.91#
12 T	Acenaphthylene	2.191	0.000#	100.0#	0#	-13.42#
13	Dimethyl phthalate	1.503	0.000#	100.0#	0#	-13.28#
14 T	Acenaphthene	1.410	0.000#	100.0#	0#	-13.58#
15 T	Dibenzofuran	2.125	0.000#	100.0#	0#	-13.72#
16 T	Fluorene	1.451	0.000#	100.0#	0#	-14.00#
17	Diethylphthalate	1.640	0.000#	100.0#	0#	-13.88#
18 IR	d10-Phenanthrene	1.000	1.000	0.0	100	0.00
19 T	Hexachlorobenzene	0.259	0.000#	100.0#	0#	-14.49#
20 T	Phenanthrene	1.019	0.000#	100.0#	0#	-14.76#
21 T	Anthracene	0.985	0.000#	100.0#	0#	-14.80#
22 T	Carbazole	0.724	0.000#	100.0#	0#	-14.91#
23	Octachlorostyrene	0.061	0.000#	100.0#	0#	-15.71#
②④	Di-n-butylphthalate	1.074	1.174	-9.3	101	0.00
25 T	Fluoranthene	1.045	0.000#	100.0#	0#	-15.88#
26 IR	d12-Chrysene	1.000	1.000	0.0	94	0.00
27 T	Pyrene	1.171	0.000#	100.0#	0#	-16.15#
28 S	SURR6, TERPHENYL-D14	0.846	0.000#	100.0#	0#	-16.25#
29	Butylbenzylphthalate	0.506	0.000#	100.0#	0#	-16.85#
30 T	bis(2-Ethylhexyl)phthalate	0.724	0.364	49.7#	44#	0.00
31 T	Benzo(a)anthracene	1.091	0.000#	100.0#	0#	-17.79#
32 T	Chrysene	1.119	0.000#	100.0#	0#	-17.86#
33 IR	d12-Perylene	1.000	1.000	0.0	86	-0.01
34	Di-n-octylphthalate	1.274	0.000#	100.0#	0#	-18.97#
35 T	Benzo(b)Fluoranthene	1.420	0.000#	100.0#	0#	-20.17#
36 T	Benzo(k)fluoranthene	1.372	0.000#	100.0#	0#	-20.24#

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR938.D Vial: 12
 Acq On : 26 Jun 2008 11:20 pm Operator: J.Wu
 Sample : ICV 2 Inst : 5973C
 Misc : 2.0 PPM STD 8270.LL ICV 2 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	1.203	0.000#	100.0#	0# -21.14#
38 T	Indeno(1,2,3-cd)Pyrene	1.361	0.000#	100.0#	0# -24.42#
39 T	Dibenz(a,h)anthracene	1.132	0.000#	100.0#	0# -24.45#
40 T	Benzo(g,h,i)perylene	1.190	0.000#	100.0#	0# -25.22#

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR938.D
 Acq On : 26 Jun 2008 11:20 pm
 Sample : ICV 2
 Misc : 2.0 PPM STD 8270.LL ICV 2
 MS Integration Params: RTEINT.P

Vial: 12
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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%

Set # 2, 30 only

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	110	0.00
2 T	1,4-Dioxane	0.574	0.563	1.9	116	0.01
3	Pyridine	1.903	2.748	-44.4#	161	0.00
4 IR	d8-Naphthalene	1.000	1.000	0.0	92	0.00
5 S	SURR4,NITROBENZENE-D5	0.573	0.000#	100.0#	0#	-11.27#
6 T	Nitrobenzene	0.595	0.000#	100.0#	0#	-11.29#
7 T	Naphthalene	1.028	0.000#	100.0#	0#	-11.97#
8 T	2-Methylnaphthalene	0.687	0.000#	100.0#	0#	-12.60#
9 T	1-Methylnaphthalene	0.668	0.000#	100.0#	0#	-12.70#
10 IR	d10-Acenaphthene	1.000	1.000	0.0	81	0.00
11 S	SURR5,2-FLUOROBIPHENYL	1.685	0.000#	100.0#	0#	-12.91#
12 T	Acenaphthylene	2.191	0.000#	100.0#	0#	-13.42#
13	Dimethyl phthalate	1.503	0.000#	100.0#	0#	-13.28#
14 T	Acenaphthene	1.410	0.000#	100.0#	0#	-13.58#
15 T	Dibenzofuran	2.125	0.000#	100.0#	0#	-13.72#
16 T	Fluorene	1.451	0.000#	100.0#	0#	-14.00#
17	Diethylphthalate	1.640	0.000#	100.0#	0#	-13.88#
18 IR	d10-Phenanthrene	1.000	1.000	0.0	107	0.00
19 T	Hexachlorobenzene	0.259	0.000#	100.0#	0#	-14.49#
20 T	Phenanthrene	1.019	0.000#	100.0#	0#	-14.76#
21 T	Anthracene	0.985	0.000#	100.0#	0#	-14.80#
22 T	Carbazole	0.724	0.000#	100.0#	0#	-14.91#
23	Octachlorostyrene	0.061	0.000#	100.0#	0#	-15.71#
24	Di-n-butylphthalate	1.074	2.348	-118.6#	246#	0.00
25 T	Fluoranthene	1.045	0.000#	100.0#	0#	-15.88#
26 IR	d12-Chrysene	1.000	1.000	0.0	100	0.00
27 T	Pyrene	1.171	0.000#	100.0#	0#	-16.15#
28 S	SURR6, TERPHENYL-D14	0.846	0.000#	100.0#	0#	-16.25#
29	Butylbenzylphthalate	0.506	0.000#	100.0#	0#	-16.85#
30 T	bis(2-Ethylhexyl)phthalate	0.724	0.729	-0.7	110	0.00
31 T	Benzo(a)anthracene	1.091	0.000#	100.0#	0#	-17.79#
32 T	Chrysene	1.119	0.000#	100.0#	0#	-17.86#
33 IR	d12-Perylene	1.000	1.000	0.0	95	-0.01
34	Di-n-octylphthalate	1.274	0.000#	100.0#	0#	-18.97#
35 T	Benzo(b)Fluoranthene	1.420	0.000#	100.0#	0#	-20.17#
36 T	Benzo(k)fluoranthene	1.372	0.000#	100.0#	0#	-20.24#

(#) = Out of Range
 AR938.D LVI0626.M

Fri Jun 27 10:12:43 2008

~W

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR938.D Vial: 12
 Acq On : 26 Jun 2008 11:20 pm Operator: J.Wu
 Sample : ICV 2 Inst : 5973C
 Misc : 2.0 PPM STD 8270.LL ICV 2 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	1.203	0.000#	100.0#	0#	-21.14#
38 T	Indeno(1,2,3-cd)Pyrene	1.361	0.000#	100.0#	0#	-24.42#
39 T	Dibenz(a,h)anthracene	1.132	0.000#	100.0#	0#	-24.45#
40 T	Benzo(g,h,i)perylene	1.190	0.000#	100.0#	0#	-25.22#

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR938.D
 Acq On : 26 Jun 2008 11:20 pm
 Sample : ICV 2
 Misc : 2.0 PPM STD 8270.LL ICV 2
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:10:30 2008

Vial: 12
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	84757	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	281818	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	129781	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	318161	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	281111	1.00	ppm	0.00
33) d12-Perylene	21.31	264	196972	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	0.00	82	0d	0.00	ppm	
Spiked Amount	2.000	Range	22 - 124	Recovery	=	0.00%#
11) SURR5,2-FLUOROBIPHENYL	0.00	172	0d	0.00	ppm	
Spiked Amount	2.000	Range	27 - 114	Recovery	=	0.00%#
28) SURR6,TERPHENYL-D14	0.00	244	0d	0.00	ppm	
Spiked Amount	2.000	Range	23 - 139	Recovery	=	0.00%#

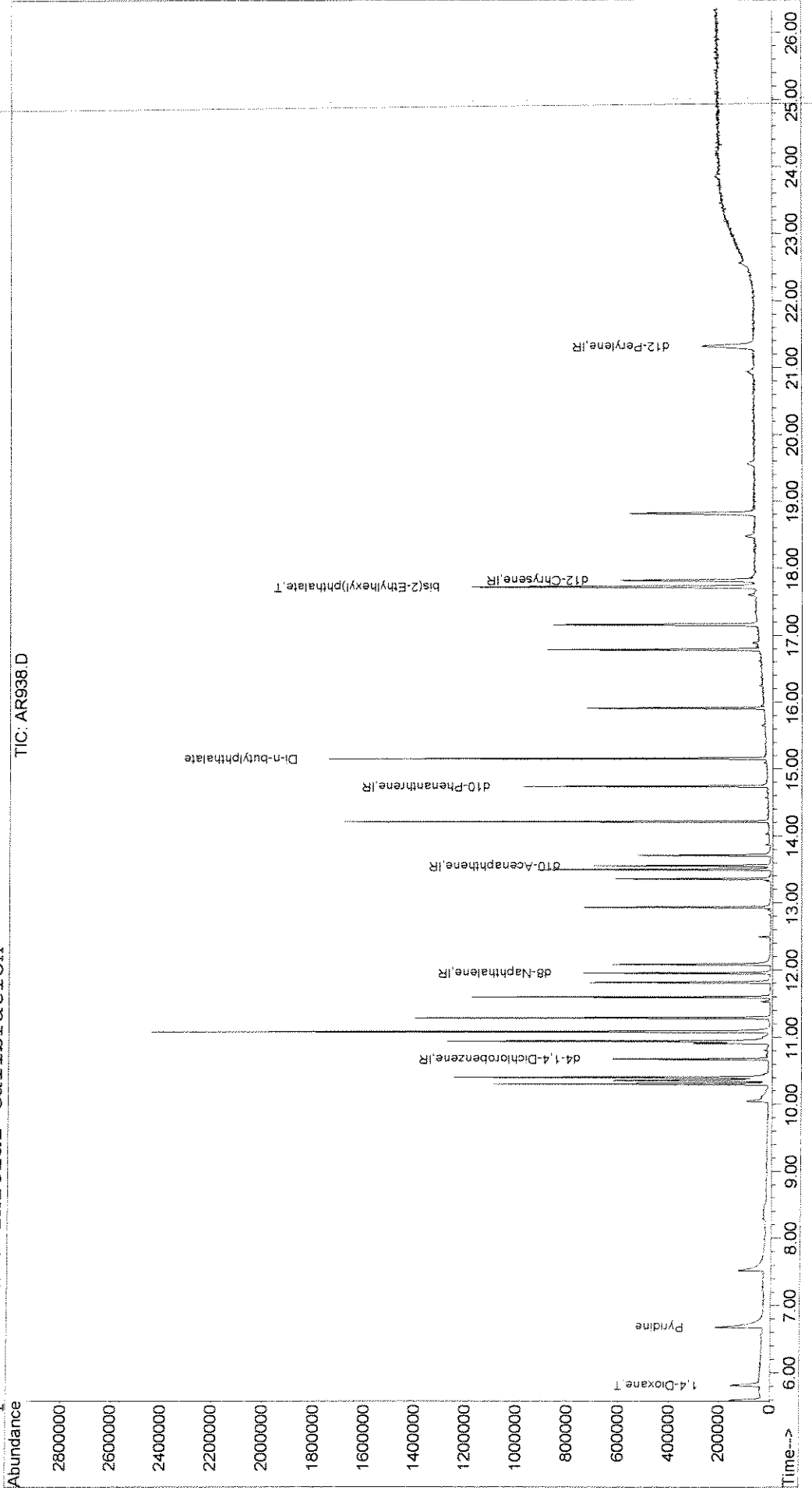
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.81	88	95453	1.96	ppm	84
3) Pyridine	6.68	79	232892	1.44	ppm	97
24) Di-n-butylphthalate	15.15	149	747135	2.19	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.72	149	409653	2.01	ppm	98

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR938.D Vial: 12
Acq On : 26 Jun 2008 11:20 pm Operator: J.Wu
Sample : ICV 2 Inst : 5973C
Misc : 2.0 PPM STD 8270.LL ICV 2 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 10:11 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 09:31:03 2008
Response via : Initial Calibration



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Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR940.D Vial: 14
 Acq On : 27 Jun 2008 12:23 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration # 11, 12, 13, 14, 15, 16, 34, 38, 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	102	0.00
2	T 1,4-Dioxane	0.574	0.527	8.2	95	0.00
3	Pyridine	1.903	1.809	4.9	92	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	101	0.00
5	S SURR4,NITROBENZENE-D5	0.573	0.566	1.2	93	0.00
6	T Nitrobenzene	0.595	0.598	-0.5	98	0.00
7	T Naphthalene	1.028	1.027	0.1	97	0.00
8	T 2-Methylnaphthalene	0.687	0.680	1.0	97	0.00
9	T 1-Methylnaphthalene	0.668	0.642	3.9	93	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	87	0.00
11	S SURR5,2-FLUOROBIPHENYL	1.685	1.863	-10.6	94	0.00
12	T Acenaphthylene	2.191	2.130	2.8	82	0.00
13	Dimethyl phthalate	1.503	1.242	17.4	73	0.00
14	T Acenaphthene	1.410	1.277	9.4	77	0.00
15	T Dibenzofuran	2.125	2.103	1.0	84	0.00
16	T Fluorene	1.451	1.720	-18.5	97	0.00
17	Diethylphthalate	1.640	1.724	-5.1	96	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	104	0.00
19	T Hexachlorobenzene	0.259	0.251	3.1	101	0.00
20	T Phenanthrene	1.019	1.024	-0.5	99	0.00
21	T Anthracene	0.985	1.025	-4.1	102	0.00
22	T Carbazole	0.724	0.794	-9.7	102	0.00
23	Octachlorostyrene	0.061	0.070	-14.8	112	0.00
24	Di-n-butylphthalate	1.074	1.113	-3.6	100	0.00
25	T Fluoranthene	1.045	1.081	-3.4	100	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	105	0.00
27	T Pyrene	1.171	1.204	-2.8	101	0.00
28	S SURR6, TERPHENYL-D14	0.846	0.859	-1.5	100	0.00
29	Butylbenzylphthalate	0.506	0.534	-5.5	101	0.00
30	T bis(2-Ethylhexyl)phthalate	0.724	0.745	-2.9	100	0.00
31	T Benzo(a)anthracene	1.091	1.109	-1.6	98	0.00
32	T Chrysene	1.119	1.111	0.7	99	0.00
33	IR d12-Perylene	1.000	1.000	0.0	104	0.00
34	T Di-n-octylphthalate	1.274	1.267	0.5	98	0.00
35	T Benzo(b)Fluoranthene	1.420	1.404	1.1	99	0.00
36	T Benzo(k)fluoranthene	1.372	1.389	-1.2	98	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR940.D Vial: 14
 Acq On : 27 Jun 2008 12:23 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	1.203	1.201	0.2	99	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.361	1.443	-6.0	99	0.00
39 T	Dibenz(a,h)anthracene	1.132	1.237	-9.3	100	0.00
40 T	Benzo(g,h,i)perylene	1.190	1.268	-6.6	100	-0.01

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR940.D
 Acq On : 27 Jun 2008 12:23 am
 Sample : CALIBRATION CHECK
 Misc : 2.0/4.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P

Vial: 14
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration

* 11, 12, 13, 14, 15, 16, 34, 38, 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	102	0.00
2	T 1,4-Dioxane	4.000	3.677	8.1	95	0.00
3	Pyridine	2.000	1.901	4.9	92	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	101	0.00
5	S SURR4,NITROBENZENE-D5	2.000	1.976	1.2	93	0.00
6	T Nitrobenzene	2.000	2.008	-0.4	98	0.00
7	T Naphthalene	2.000	1.998	0.1	97	0.00
8	T 2-Methylnaphthalene	2.000	1.977	1.1	97	0.00
9	T 1-Methylnaphthalene	2.000	1.924	3.8	93	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	87	0.00
11	S SURR5,2-FLUOROBIPHENYL	2.000	1.988	0.6	94	0.00
12	T Acenaphthylene	2.000	1.758	12.1	82	0.00
13	Dimethyl phthalate	2.000	1.619	19.1	73	0.00
14	T Acenaphthene	2.000	1.679	16.0	77	0.00
15	T Dibenzofuran	2.000	1.801	10.0	84	0.00
16	T Fluorene	2.000	1.991	0.4	97	0.00
17	Diethylphthalate	2.000	2.102	-5.1	96	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	104	0.00
19	T Hexachlorobenzene	2.000	1.936	3.2	101	0.00
20	T Phenanthrene	2.000	2.010	-0.5	99	0.00
21	T Anthracene	2.000	2.080	-4.0	102	0.00
22	T Carbazole	2.000	2.192	-9.6	102	0.00
23	Octachlorostyrene	2.000	2.328	-16.4	112	0.00
24	Di-n-butylphthalate	2.000	2.072	-3.6	100	0.00
25	T Fluoranthene	2.000	2.069	-3.4	100	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	105	0.00
27	T Pyrene	2.000	2.056	-2.8	101	0.00
28	S SURR6,TERPHENYL-D14	2.000	2.030	-1.5	100	0.00
29	Butylbenzylphthalate	2.000	2.110	-5.5	101	0.00
30	T bis(2-Ethylhexyl)phthalate	4.000	4.115	-2.9	100	0.00
31	T Benzo(a)anthracene	2.000	2.033	-1.6	98	0.00
32	T Chrysene	2.000	1.986	0.7	99	0.00
33	IR d12-Perylene	1.000	1.000	0.0	104	0.00
34	Di-n-octylphthalate	2.000	1.838	8.1	98	0.00
35	T Benzo(b)Fluoranthene	2.000	1.978	1.1	99	0.00
36	T Benzo(k)fluoranthene	2.000	2.025	-1.2	98	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\062608\AR940.D Vial: 14
 Acq On : 27 Jun 2008 12:23 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	1.998	0.1	99	0.00
38 T	Indeno(1,2,3-cd)Pyrene	2.000	1.945	2.7	99	0.00
39 T	Dibenz(a,h)anthracene	2.000	1.939	3.0	100	0.00
40 T	Benzo(g,h,i)perylene	2.000	2.131	-6.5	100	-0.01

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR940.D Vial: 14
 Acq On : 27 Jun 2008 12:23 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 09:35:31 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	85042	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	330411	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	131431	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	332218	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	314728	1.00	ppm	0.00
33) d12-Perylene	21.31	264	238408	1.00	ppm	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	374021	1.98	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery =	99.00%		
11) SURR5,2-FLUOROBIPHENYL	12.91	172	489767	1.99	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery =	99.50%		
28) SURR6,TERPHENYL-D14	16.25	244	540654	2.03	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery =	101.50%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.80	88	179386	3.68	ppm	91
3) Pyridine	6.68	79	307749	1.90	ppm	93
6) Nitrobenzene	11.29	77	394918	2.01	ppm	98
7) Naphthalene	11.97	128	678339	2.00	ppm	99
8) 2-Methylnaphthalene	12.59	142	449117	1.98	ppm	96
9) 1-Methylnaphthalene	12.70	142	424450	1.92	ppm	99
12) Acenaphthylene	13.42	152	559794	1.76	ppm	99
13) Dimethyl phthalate	13.28	163	326593	1.62	ppm	99
14) Acenaphthene	13.58	153	335648	1.68	ppm	99
15) Dibenzofuran	13.72	168	552720	1.80	ppm	98
16) Fluorene	14.00	166	452224	1.99	ppm	98
17) Diethylphthalate	13.88	149	453189	2.10	ppm	100
19) Hexachlorobenzene	14.49	284	166873	1.94	ppm	95
20) Phenanthrene	14.76	178	680504	2.01	ppm	99
21) Anthracene	14.80	178	680765	2.08	ppm	98
22) Carbazole	14.91	167	527275	2.19	ppm	99
23) Octachlorostyrene	15.70	380	46835	2.33	ppm	91
24) Di-n-butylphthalate	15.15	149	739408	2.07	ppm	100
25) Fluoranthene	15.88	202	718274	2.07	ppm	100
27) Pyrene	16.15	202	757981	2.06	ppm	99
29) Butylbenzylphthalate	16.85	149	335906	2.11	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.72	149	937749	4.12	ppm	99
31) Benzo(a)anthracene	17.79	228	698242	2.03	ppm	99
32) Chrysene	17.86	228	699312	1.99	ppm	99
34) Di-n-octylphthalate	18.97	149	604144	1.84	ppm	100
35) Benzo(b)Fluoranthene	20.17	252	669652	1.98	ppm	99

(#) = qualifier out of range (m) = manual integration
 AR940.D LVI0626.M Fri Jun 27 10:37:10 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR940.D Vial: 14
 Acq On : 27 Jun 2008 12:23 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 09:35:31 2008 Quant Results File: LVI0626.RES

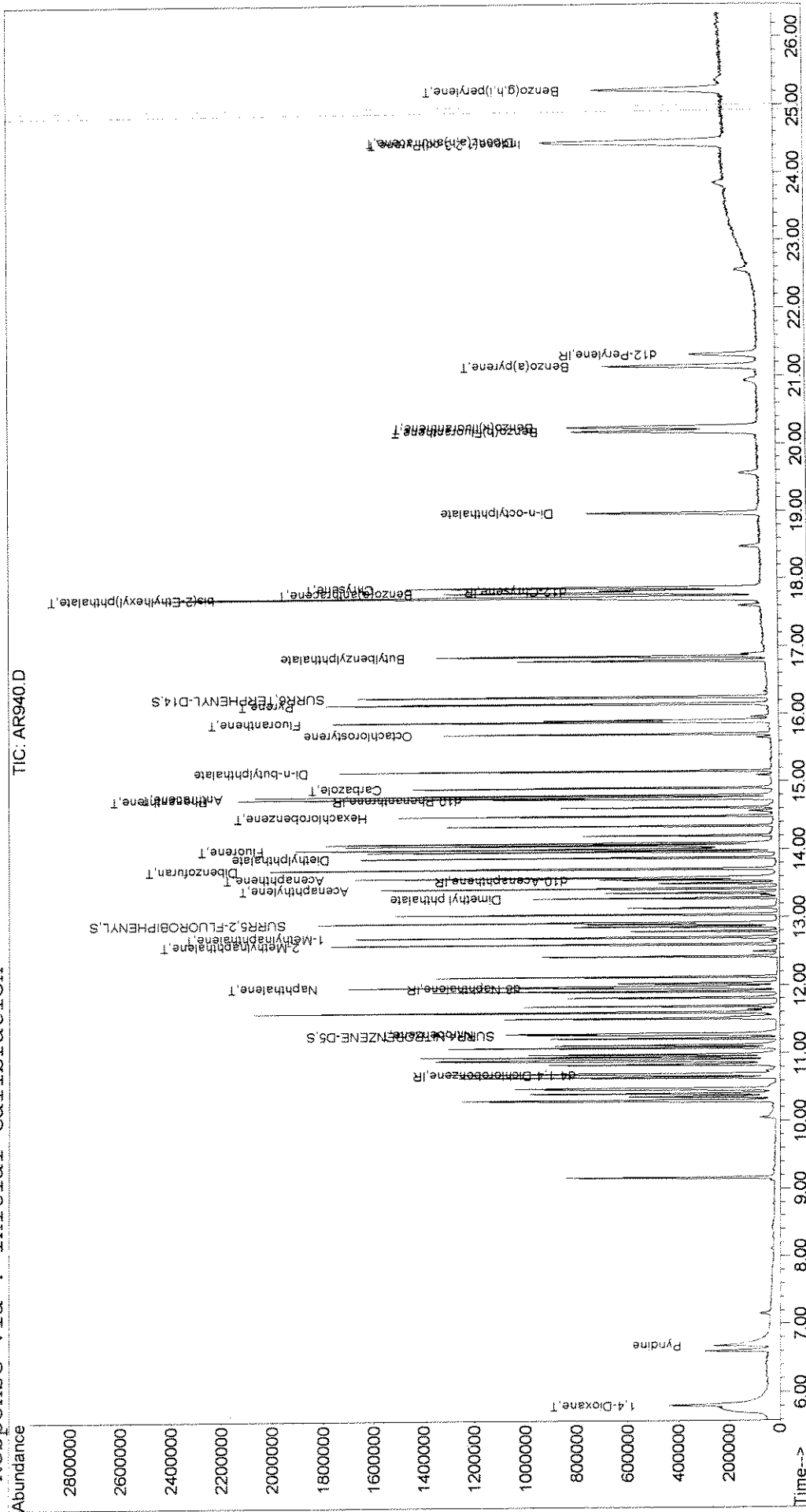
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.24	252	662312	2.03	ppm	96
37) Benzo(a)pyrene	21.14	252	572876	2.00	ppm	99
38) Indeno(1,2,3-cd)Pyrene	24.42	276	688142	1.95	ppm	98
39) Dibenz(a,h)anthracene	24.46	278	589716	1.94	ppm	98
40) Benzo(g,h,i)perylene	25.21	276	604532	2.13	ppm	96

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR940.D
 Acq On : 27 Jun 2008 12:23 am
 Sample : CALIBRATION CHECK
 Misc : 2.0/4.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 9:35 2008
 Vial: 14
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00
 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



00520

Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplic: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration # 11,12,13,14,15,16, 34,35,37 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	123	0.00
2	T 1,4-Dioxane	0.574	0.592	-3.1	129	0.02
3	Pyridine	1.903	2.057	-8.1	127	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	121	0.00
5	S SURR4,NITROBENZENE-D5	0.573	0.610	-6.5	121	0.00
6	T Nitrobenzene	0.595	0.641	-7.7	127	0.00
7	T Naphthalene	1.028	1.098	-6.8	125	0.00
8	T 2-Methylnaphthalene	0.687	0.729	-6.1	126	0.00
9	T 1-Methylnaphthalene	0.668	0.690	-3.3	121	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	131	0.00
11	S SURR5,2-FLUOROBIPHENYL	1.685	1.599	5.1	121	0.00
12	T Acenaphthylene	2.191	2.051	6.4	119	0.00
13	Dimethyl phthalate	1.503	1.322	12.0	116	0.00
14	T Acenaphthene	1.410	1.265	10.3	115	0.00
15	T Dibenzofuran	2.125	1.999	5.9	120	0.00
16	T Fluorene	1.451	1.534	-5.7	129	0.00
17	Diethylphthalate	1.640	1.514	7.7	126	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	127	0.00
19	T Hexachlorobenzene	0.259	0.270	-4.2	132	0.00
20	T Phenanthrene	1.019	1.102	-8.1	129	0.00
21	T Anthracene	0.985	1.099	-11.6	133	0.00
22	T Carbazole	0.724	0.812	-12.2	128	0.00
23	Octachlorostyrene	0.061	0.070	-14.8	136	0.00
24	Di-n-butylphthalate	1.074	1.224	-14.0	134	0.00
25	T Fluoranthene	1.045	1.139	-9.0	128	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	130	0.00
27	T Pyrene	1.171	1.266	-8.1	130	0.00
28	S SURR6,TERPHENYL-D14	0.846	0.883	-4.4	127	0.00
29	Butylbenzylphthalate	0.506	0.583	-15.2	136	0.00
30	T bis(2-Ethylhexyl)phthalate	0.724	0.819	-13.1	136	0.00
31	T Benzo(a)anthracene	1.091	1.188	-8.9	130	0.00
32	T Chrysene	1.119	1.143	-2.1	125	0.00
33	IR d12-Perylene	1.000	1.000	0.0	134	-0.01
34	Di-n-octylphthalate	1.274	1.554	-22.0#	155	0.00
35	T Benzo(b)Fluoranthene	1.420	1.412	0.6	128	0.00
36	T Benzo(k)fluoranthene	1.372	1.407	-2.6	129	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	1.203	1.283	-6.7	136	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.361	1.563	-14.8	138	0.00
39 T	Dibenz(a,h)anthracene	1.132	1.342	-18.6	140	0.00
40 T	Benzo(g,h,i)perylene	1.190	1.322	-11.1	134	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\063008\AR982.D
 Acq On : 30 Jun 2008 9:20 am
 Sample : CALIBRATION CHECK
 Misc : 2.0/4.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Multiple Level Calibration #11,12,13,14,15,16,17,18,19 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	123	0.00
2	T 1,4-Dioxane	4.000	4.129	-3.2	129	0.02
3	Pyridine	2.000	2.161	-8.1	127	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	121	0.00
5	S SURR4,NITROBENZENE-D5	2.000	2.131	-6.5	121	0.00
6	T Nitrobenzene	2.000	2.154	-7.7	127	0.00
7	T Naphthalene	2.000	2.137	-6.9	125	0.00
8	T 2-Methylnaphthalene	2.000	2.122	-6.1	126	0.00
9	T 1-Methylnaphthalene	2.000	2.066	-3.3	121	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	131	0.00
11	S SURR5,2-FLUOROBIPHENYL	2.000	1.737	13.1	121	0.00
12	T Acenaphthylene	2.000	1.700	15.0	119	0.00
13	Dimethyl phthalate	2.000	1.714	14.3	116	0.00
14	T Acenaphthene	2.000	1.665	16.8	115	0.00
15	T Dibenzofuran	2.000	1.722	13.9	120	0.00
16	T Fluorene	2.000	1.796	10.2	129	0.00
17	Diethylphthalate	2.000	1.846	7.7	126	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	127	0.00
19	T Hexachlorobenzene	2.000	2.079	-4.0	132	0.00
20	T Phenanthrene	2.000	2.164	-8.2	129	0.00
21	T Anthracene	2.000	2.232	-11.6	133	0.00
22	T Carbazole	2.000	2.244	-12.2	128	0.00
23	Octachlorostyrene	2.000	2.317	-15.9	136	0.00
24	Di-n-butylphthalate	2.000	2.280	-14.0	134	0.00
25	T Fluoranthene	2.000	2.181	-9.1	128	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	130	0.00
27	T Pyrene	2.000	2.161	-8.1	130	0.00
28	S SURR6,TERPHENYL-D14	2.000	2.086	-4.3	127	0.00
29	Butylbenzylphthalate	2.000	2.307	-15.3	136	0.00
30	T bis(2-Ethylhexyl)phthalate	4.000	4.527	-13.2	136	0.00
31	T Benzo(a)anthracene	2.000	2.178	-8.9	130	0.00
32	T Chrysene	2.000	2.043	-2.2	125	0.00
33	IR d12-Perylene	1.000	1.000	0.0	134	-0.01
34	Di-n-octylphthalate	2.000	2.179	-8.9	155	0.00
35	T Benzo(b)Fluoranthene	2.000	1.989	0.5	128	0.00
36	T Benzo(k)fluoranthene	2.000	2.051	-2.6	129	0.00

(#) = Out of Range
 AR982.D LVI0626.M

Mon Jun 30 10:10:43 2008

Page 1

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Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	2.133	-6.7	136	0.00
38 T	Indeno(1,2,3-cd)Pyrene	2.000	2.095	-4.8	138	0.00
39 T	Dibenz(a,h)anthracene	2.000	2.086	-4.3	140	0.00
40 T	Benzo(g,h,i)perylene	2.000	2.223	-11.1	134	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 09:47:29 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	102949	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	397895	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	196935	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	405436	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	387612	1.00	ppm	0.00
33) d12-Perylene	21.31	264	307668	1.00	ppm	-0.01

System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	485778	2.13	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	106.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	629636	1.74	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	87.00%
28) SURR6,TERPHENYL-D14	16.25	244	684429	2.09	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	104.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.82	88	243834	4.13	ppm	90
3) Pyridine	6.67	79	423490	2.16	ppm	95
6) Nitrobenzene	11.29	77	510198	2.15	ppm	99
7) Naphthalene	11.97	128	873957	2.14	ppm	99
8) 2-Methylnaphthalene	12.60	142	580411	2.12	ppm	95
9) 1-Methylnaphthalene	12.70	142	548781	2.07	ppm	97
12) Acenaphthylene	13.42	152	807661	1.70	ppm	99
13) Dimethyl phthalate	13.28	163	520783	1.71	ppm	99
14) Acenaphthene	13.58	153	498411	1.67	ppm	94
15) Dibenzofuran	13.72	168	787236	1.72	ppm	99
16) Fluorene	14.00	166	604109	1.80	ppm	95
17) Diethylphthalate	13.88	149	596136	1.85	ppm	98
19) Hexachlorobenzene	14.49	284	218724	2.08	ppm	96
20) Phenanthrene	14.76	178	893859	2.16	ppm	99
21) Anthracene	14.80	178	891286	2.23	ppm	98
22) Carbazole	14.91	167	658801	2.24	ppm	97
23) Octachlorostyrene	15.70	380	56877	2.32	ppm	88
24) Di-n-butylphthalate	15.15	149	992807	2.28	ppm	99
25) Fluoranthene	15.88	202	923857	2.18	ppm	99
27) Pyrene	16.15	202	981143	2.16	ppm	99
29) Butylbenzylphthalate	16.85	149	452176	2.31	ppm	96
30) bis(2-Ethylhexyl)phthalate	17.72	149	1270286	4.53	ppm	99
31) Benzo(a)anthracene	17.79	228	921295	2.18	ppm	99
32) Chrysene	17.86	228	886033	2.04	ppm	98
34) Di-n-octylphthalate	18.96	149	956364	2.18	ppm	100
35) Benzo(b)Fluoranthene	20.17	252	868858	1.99	ppm	97

(#) = qualifier out of range (m) = manual integration
 AR982.D LVI0626.M Mon Jun 30 10:10:20 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 09:47:29 2008 Quant Results File: LVI0626.RES

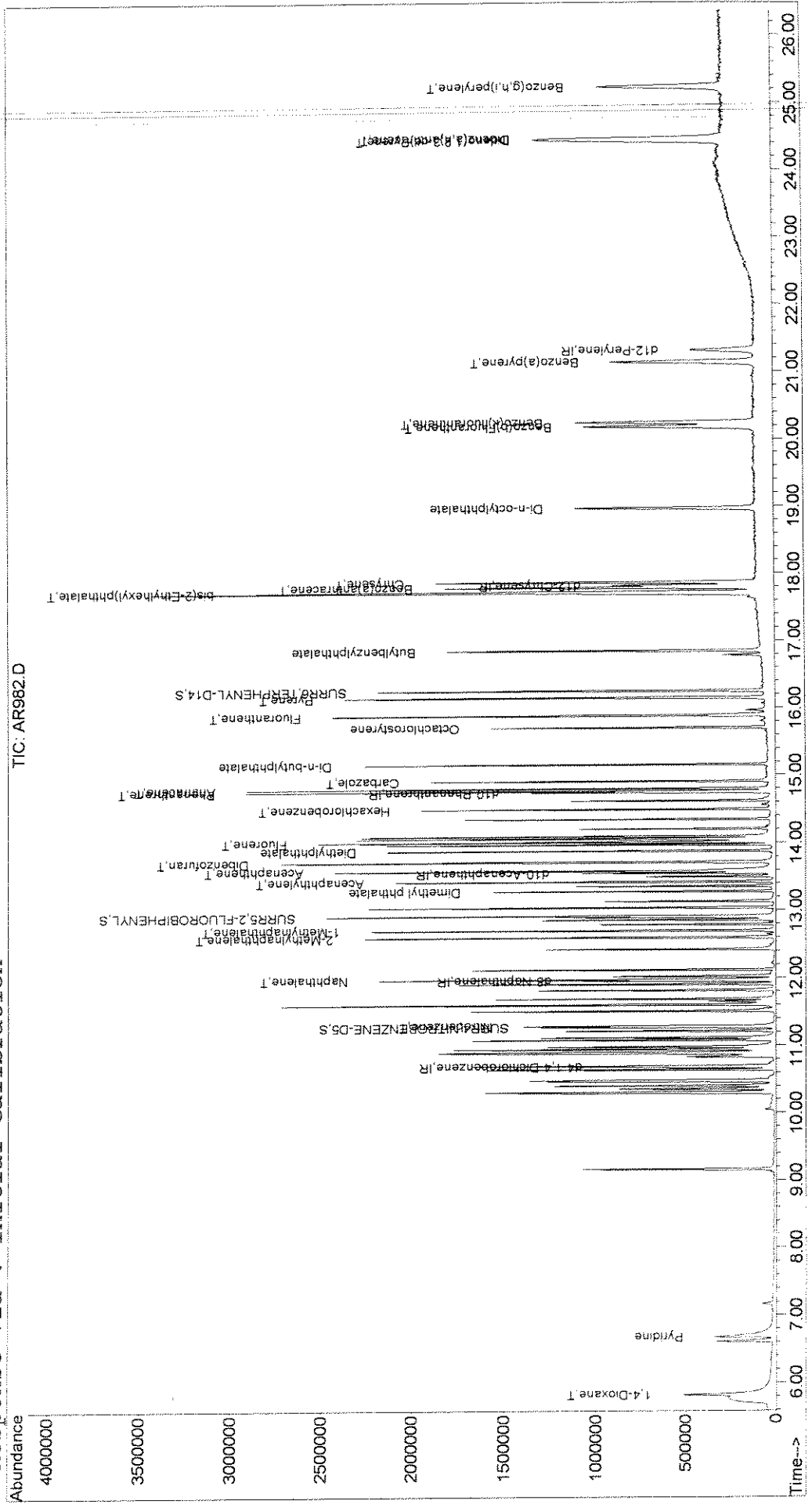
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k) fluoranthene	20.24	252	865740	2.05	ppm	99
37) Benzo(a) pyrene	21.14	252	789409	2.13	ppm	99
38) Indeno(1,2,3-cd) Pyrene	24.43	276	961929	2.10	ppm	94
39) Dibenz(a,h) anthracene	24.46	278	825569	2.09	ppm	98
40) Benzo(g,h,i) perylene	25.22	276	813713	2.22	ppm	97

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR982.D Vial: 1
 Acq On : 30 Jun 2008 9:20 am Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 9:47 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



00527

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\070108\AS011.D Vial: 1
 Acq On : 1 Jul 2008 12:57 pm Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008 # 11, 12, 13, 14, 15, 16, 34, 38, 39 L-R
 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	122	0.00
2 T	1,4-Dioxane	0.574	0.599	-4.4	130	0.02
3	Pyridine	1.903	2.055	-8.0	126	0.00
4 IR	d8-Naphthalene	1.000	1.000	0.0	117	0.00
5 S	SURR4,NITROBENZENE-D5	0.573	0.615	-7.3	117	0.00
6 T	Nitrobenzene	0.595	0.635	-6.7	120	0.00
7 T	Naphthalene	1.028	1.128	-9.7	123	0.00
8 T	2-Methylnaphthalene	0.687	0.710	-3.3	118	0.00
9 T	1-Methylnaphthalene	0.668	0.681	-1.9	114	0.00
10 IR	d10-Acenaphthene	1.000	1.000	0.0	125	0.00
11 S	SURR5,2-FLUOROBIPHENYL	1.685	1.558	7.5	112	0.00
12 T	Acenaphthylene	2.191	1.998	8.8	110	0.00
13	Dimethyl phthalate	1.503	1.295	13.8	109	0.00
14 T	Acenaphthene	1.410	1.237	12.3	107	0.00
15 T	Dibenzofuran	2.125	1.888	11.2	107	0.00
16 T	Fluorene	1.451	1.566	-7.9	126	0.00
17	Diethylphthalate	1.640	1.522	7.2	120	0.00
18 IR	d10-Phenanthrene	1.000	1.000	0.0	125	0.00
19 T	Hexachlorobenzene	0.259	0.272	-5.0	131	0.00
20 T	Phenanthrene	1.019	1.097	-7.7	127	0.00
21 T	Anthracene	0.985	1.091	-10.8	130	0.00
22 T	Carbazole	0.724	0.844	-16.6	131	0.00
23	Octachlorostyrene	0.061	0.069	-13.1	131	0.00
24	Di-n-butylphthalate	1.074	1.194	-11.2	128	0.00
25 T	Fluoranthene	1.045	1.137	-8.8	126	0.00
26 IR	d12-Chrysene	1.000	1.000	0.0	126	0.00
27 T	Pyrene	1.171	1.268	-8.3	127	0.00
28 S	SURR6, TERPHENYL-D14	0.846	0.888	-5.0	124	0.00
29	Butylbenzylphthalate	0.506	0.548	-8.3	124	0.00
30 T	bis(2-Ethylhexyl)phthalate	0.724	0.806	-11.3	130	0.00
31 T	Benzo(a)anthracene	1.091	1.174	-7.6	124	0.00
32 T	Chrysene	1.119	1.158	-3.5	123	0.00
33 IR	d12-Perylene	1.000	1.000	0.0	123	-0.01
34	Di-n-octylphthalate	1.274	1.483	-16.4	136	0.00
35 T	Benzo(b)fluoranthene	1.420	1.518	-6.9	127	0.00
36 T	Benzo(k)fluoranthene	1.372	1.493	-8.8	126	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\070108\AS011.D Vial: 1
 Acq On : 1 Jul 2008 12:57 pm Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	1.203	1.327	-10.3	129	0.00
38 T	Indeno(1,2,3-cd)Pyrene	1.361	1.671	-22.8#	136	0.00
39 T	Dibenz(a,h)anthracene	1.132	1.438	-27.0#	138	0.00
40 T	Benzo(g,h,i)perylene	1.190	1.424	-19.7	133	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973C\DATA\070108\AS011.D
 Acq On : 1 Jul 2008 12:57 pm
 Sample : CALIBRATION CHECK
 Misc : 2.0/4.0 PPM STD 8270.LL
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008 # 11,12,13,14,15,16, 34, 38, 39 L.R.
 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	122	0.00
2	T 1,4-Dioxane	4.000	4.174	-4.4	130	0.02
3	Pyridine	2.000	2.159	-7.9	126	0.00
4	IR d8-Naphthalene	1.000	1.000	0.0	117	0.00
5	S SURR4, NITROBENZENE-D5	2.000	2.148	-7.4	117	0.00
6	T Nitrobenzene	2.000	2.133	-6.7	120	0.00
7	T Naphthalene	2.000	2.195	-9.7	123	0.00
8	T 2-Methylnaphthalene	2.000	2.066	-3.3	118	0.00
9	T 1-Methylnaphthalene	2.000	2.039	-2.0	114	0.00
10	IR d10-Acenaphthene	1.000	1.000	0.0	125	0.00
11	S SURR5, 2-FLUOROBIPHENYL	2.000	1.698	15.1	112	0.00
12	T Acenaphthylene	2.000	1.662	16.9	110	0.00
13	Dimethyl phthalate	2.000	1.682	15.9	109	0.00
14	T Acenaphthene	2.000	1.633	18.4	107	0.00
15	T Dibenzofuran	2.000	1.639	18.1	107	0.00
16	T Fluorene	2.000	1.829	8.6	126	0.00
17	Diethylphthalate	2.000	1.856	7.2	120	0.00
18	IR d10-Phenanthrene	1.000	1.000	0.0	125	0.00
19	T Hexachlorobenzene	2.000	2.095	-4.8	131	0.00
20	T Phenanthrene	2.000	2.153	-7.7	127	0.00
21	T Anthracene	2.000	2.216	-10.8	130	0.00
22	T Carbazole	2.000	2.332	-16.6	131	0.00
23	Octachlorostyrene	2.000	2.265	-13.3	131	0.00
24	Di-n-butylphthalate	2.000	2.223	-11.1	128	0.00
25	T Fluoranthene	2.000	2.176	-8.8	126	0.00
26	IR d12-Chrysene	1.000	1.000	0.0	126	0.00
27	T Pyrene	2.000	2.166	-8.3	127	0.00
28	S SURR6, TERPHENYL-D14	2.000	2.098	-4.9	124	0.00
29	Butylbenzylphthalate	2.000	2.167	-8.3	124	0.00
30	T bis(2-Ethylhexyl)phthalate	4.000	4.454	-11.3	130	0.00
31	T Benzo(a)anthracene	2.000	2.151	-7.5	124	0.00
32	T Chrysene	2.000	2.070	-3.5	123	0.00
33	IR d12-Perylene	1.000	1.000	0.0	123	-0.01
34	Di-n-octylphthalate	2.000	2.095	-4.8	136	0.00
35	T Benzo(b)Fluoranthene	2.000	2.138	-6.9	127	0.00
36	T Benzo(k)fluoranthene	2.000	2.178	-8.9	126	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUADATA\5973C\DATA\070108\AS011.D Vial: 1
 Acq On : 1 Jul 2008 12:57 pm Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUADATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 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	2.206	-10.3	129	0.00
38 T	Indeno(1,2,3-cd)Pyrene	2.000	2.231	-11.5	136	0.00
39 T	Dibenz(a,h)anthracene	2.000	2.222	-11.1	138	0.00
40 T	Benzo(g,h,i)perylene	2.000	2.393	-19.6	133	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS011.D Vial: 1
 Acq On : 1 Jul 2008 12:57 pm Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 13:24:00 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	102393	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	382043	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	187316	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	399750	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	377093	1.00	ppm	0.00
33) d12-Perylene	21.31	264	283525	1.00	ppm	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	470031	2.15	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery	=	107.50%	
11) SURR5,2-FLUOROBIPHENYL	12.92	172	583745	1.70	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery	=	85.00%	
28) SURR6,TERPHENYL-D14	16.25	244	669705	2.10	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery	=	105.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.82	88	245175	4.17	ppm	94
3) Pyridine	6.68	79	420737	2.16	ppm	95
6) Nitrobenzene	11.29	77	484886	2.13	ppm	99
7) Naphthalene	11.97	128	861829	2.19	ppm	99
8) 2-Methylnaphthalene	12.60	142	542672	2.07	ppm	97
9) 1-Methylnaphthalene	12.70	142	520214	2.04	ppm	98
12) Acenaphthylene	13.42	152	748497	1.66	ppm	98
13) Dimethyl phthalate	13.28	163	485324	1.68	ppm	98
14) Acenaphthene	13.58	153	463584	1.63	ppm	97
15) Dibenzofuran	13.72	168	707140	1.64	ppm	99
16) Fluorene	14.00	166	586653	1.83	ppm	100
17) Diethylphthalate	13.88	149	570187	1.86	ppm	97
19) Hexachlorobenzene	14.49	284	217345	2.10	ppm	98
20) Phenanthrene	14.76	178	876702	2.15	ppm	98
21) Anthracene	14.80	178	872519	2.22	ppm	100
22) Carbazole	14.91	167	675098	2.33	ppm	98
23) Octachlorostyrene	15.71	380	54827	2.27	ppm	89
24) Di-n-butylphthalate	15.15	149	954385	2.22	ppm	99
25) Fluoranthene	15.88	202	908825	2.18	ppm	99
27) Pyrene	16.15	202	956664	2.17	ppm	98
29) Butylbenzylphthalate	16.85	149	413253	2.17	ppm	91
30) bis(2-Ethylhexyl)phthalate	17.72	149	1216102	4.45	ppm	97
31) Benzo(a)anthracene	17.79	228	885166	2.15	ppm	97
32) Chrysene	17.86	228	873257	2.07	ppm	99
34) Di-n-octylphthalate	18.96	149	841058	2.09	ppm	100
35) Benzo(b)Fluoranthene	20.17	252	860582	2.14	ppm	97

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

00532

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS011.D Vial: 1
 Acq On : 1 Jul 2008 12:57 pm Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : ~~2.0/4.0 PPM STD 8270.LL~~ Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 01 13:24:00 2008 Quant Results File: LVI0626.RES

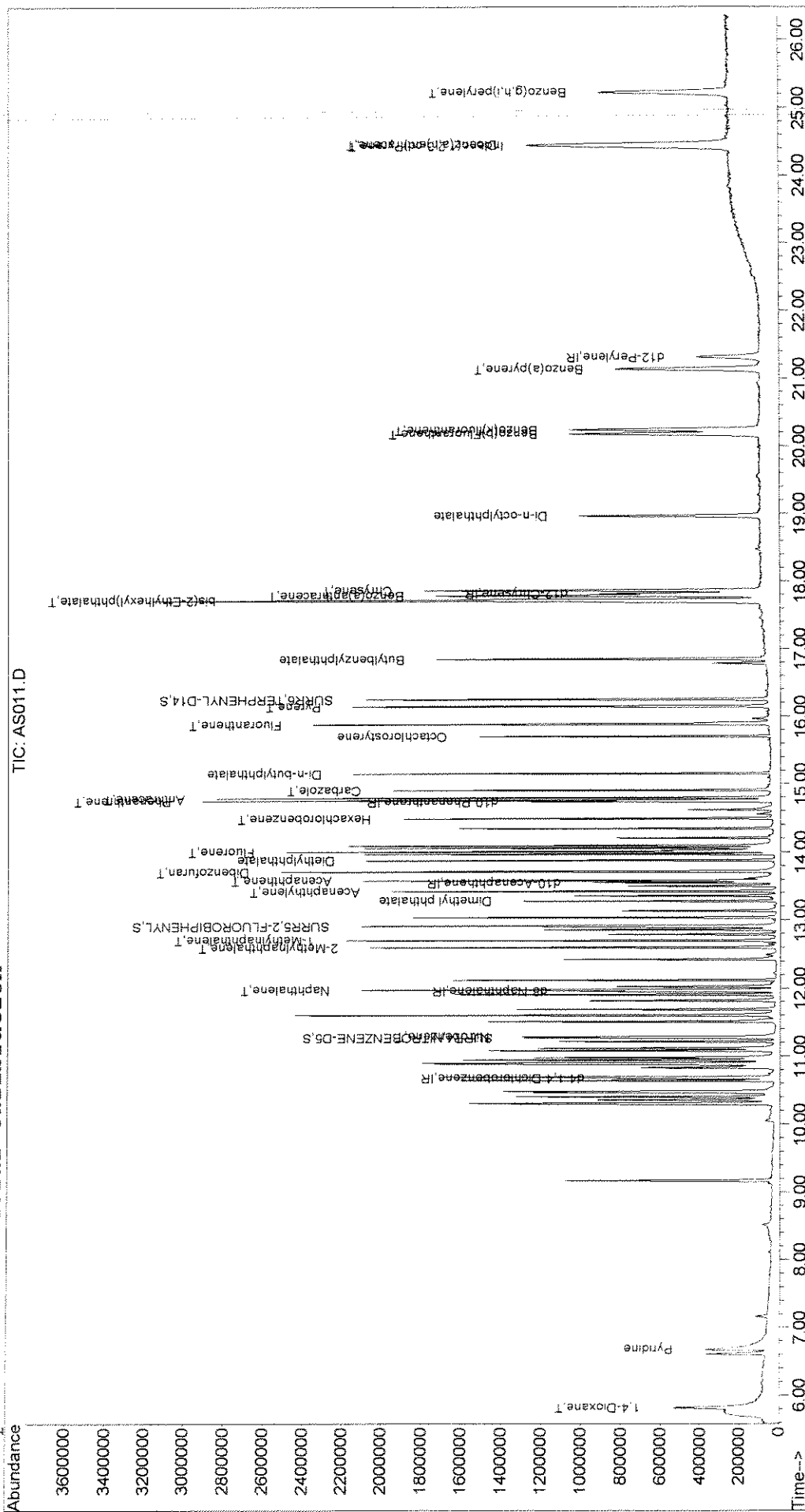
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	846847	2.18	ppm	94
37) Benzo(a)pyrene	21.14	252	752236	2.21	ppm	98
38) Indeno(1,2,3-cd)Pyrene	24.43	276	947681	2.23	ppm	98
39) Dibenz(a,h)anthracene	24.45	278	815331	2.22	ppm	98
40) Benzo(g,h,i)perylene	25.22	276	807226	2.39	ppm	100

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\070108\AS011.D Vial: 1
 Acq On : 1 Jul 2008 12:57 pm Operator: J.Wu
 Sample : CALIBRATION CHECK Inst : 5973C
 Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 1 13:24 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



00534

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\062608\AR926.D Vial: 1
 Acq On : 26 Jun 2008 4:24 pm Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 09:48:43 2008 Quant Results File: TUNEC.RES

Quant Method : J:\ACQUADATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:48:38 2008
 Response via : Initial Calibration
 DataAcq Meth : TUNEC

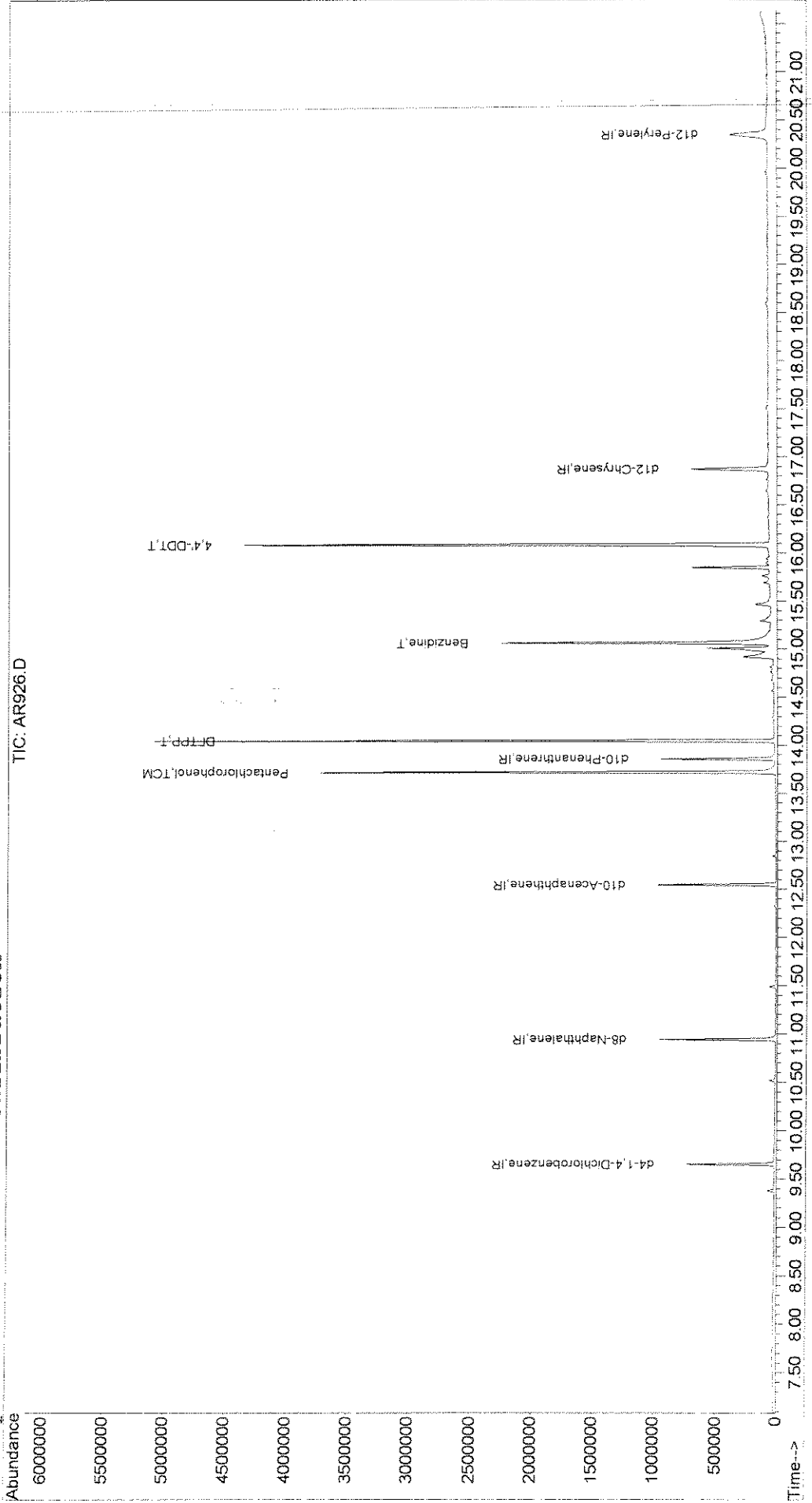
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	9.65	152	101217	1.00	ppm	0.00
2) d8-Naphthalene	10.94	136	378939	1.00	ppm	0.00
3) d10-Acenaphthene	12.55	164	199875	1.00	ppm	0.00
4) d10-Phenanthrene	13.85	188	363223	1.00	ppm	0.00
7) d12-Chrysene	16.87	240	321789	1.00	ppm	0.00
12) d12-Perylene	20.34	264	252004	1.00	ppm	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Pentachlorophenol	13.72	266	454969	10.00	ppm	100
6) DFTPP	14.05	198	413946	10.00	ppm	100
8) Benzidine	15.06	184	1130989	10.00	ppm	100
9) 4,4'-DDE	0.00	246	0	N.D.		
10) 4,4'-DDD	0.00	235	0	N.D.	d	
11) 4,4'-DDT	16.08	235	905664	10.00	ppm	100

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR926.D Vial: 1
Acq On : 26 Jun 2008 4:24 pm Operator: J.Wu
Sample : TUNE CHECK Inst : 5973C
Misc : 20 ng DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 9:49 2008 Quant Results File: TUNEC.RES

Method : J:\ACQDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
Title : TUNE CHECK
Last Update : Fri Jun 27 09:49:26 2008
Response via : Initial Calibration



00536

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR926.D
Acq On : 26 Jun 2008 4:24 pm
Sample : TUNE CHECK
Misc : 20 ng DFTPP

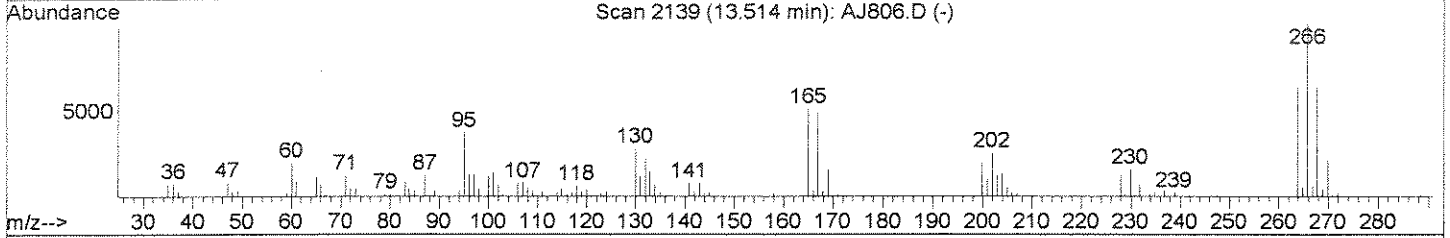
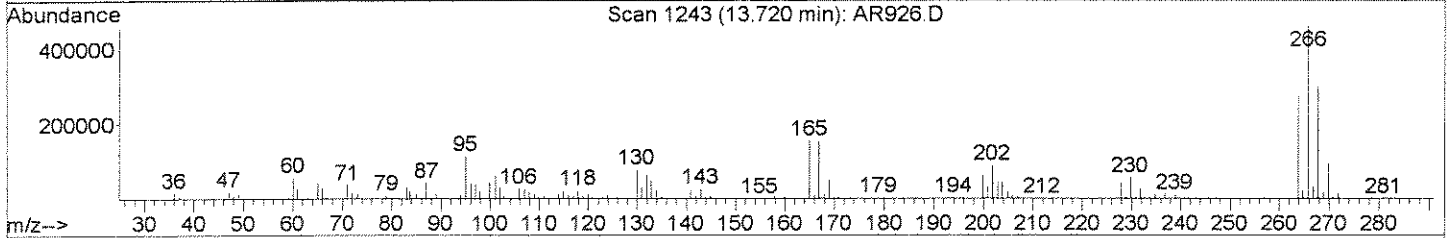
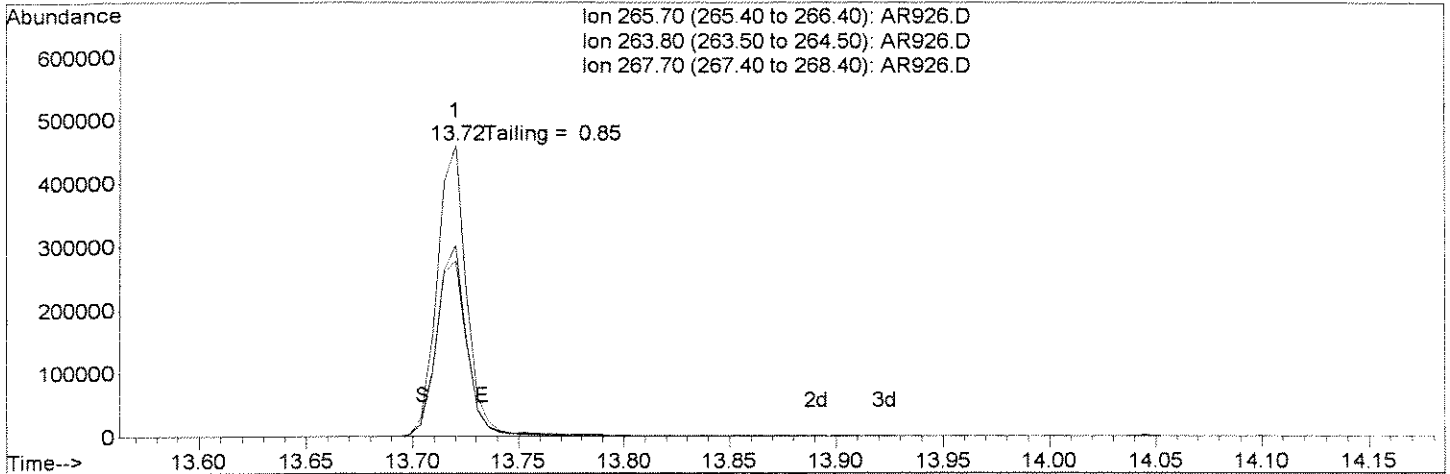
Vial: 1
Operator: J.Wu
Inst : 5973C
Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 27 9:48 2008

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
Title : TUNE CHECK
Last Update : Fri Jun 27 09:48:38 2008
Response via : Single Level Calibration



TIC: AR926.D

(5) Pentachlorophenol (TCM)

13.72min 10.00ppm

response 454969

Ion	Exp%	Act%
265.70	100	100
263.80	60.30	60.35
267.70	65.70	65.67
0.00	0.00	0.00

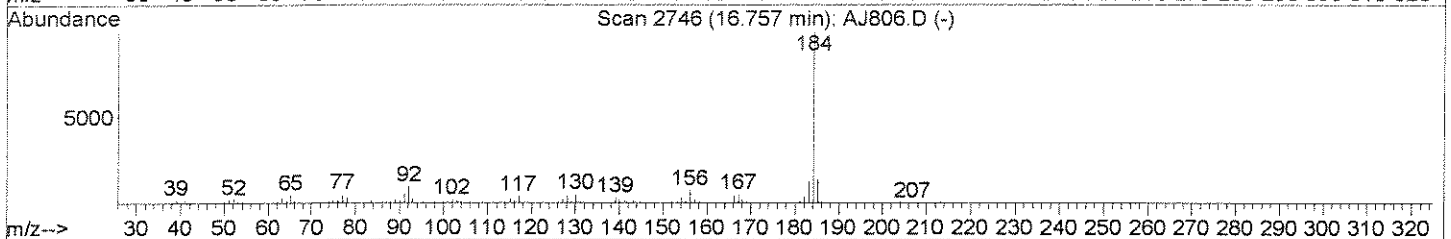
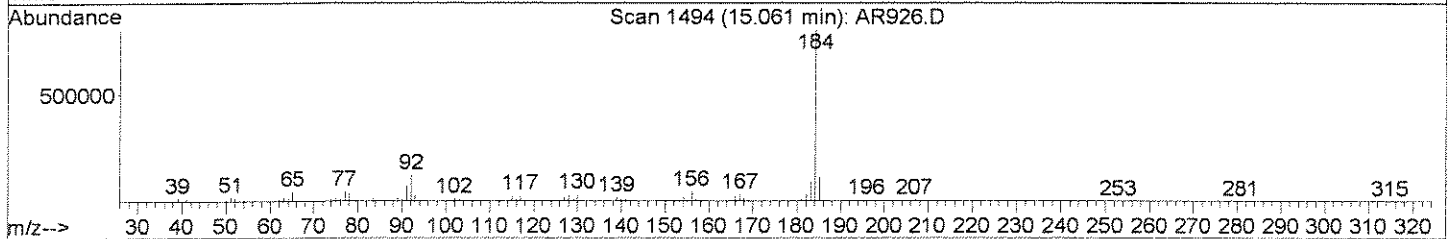
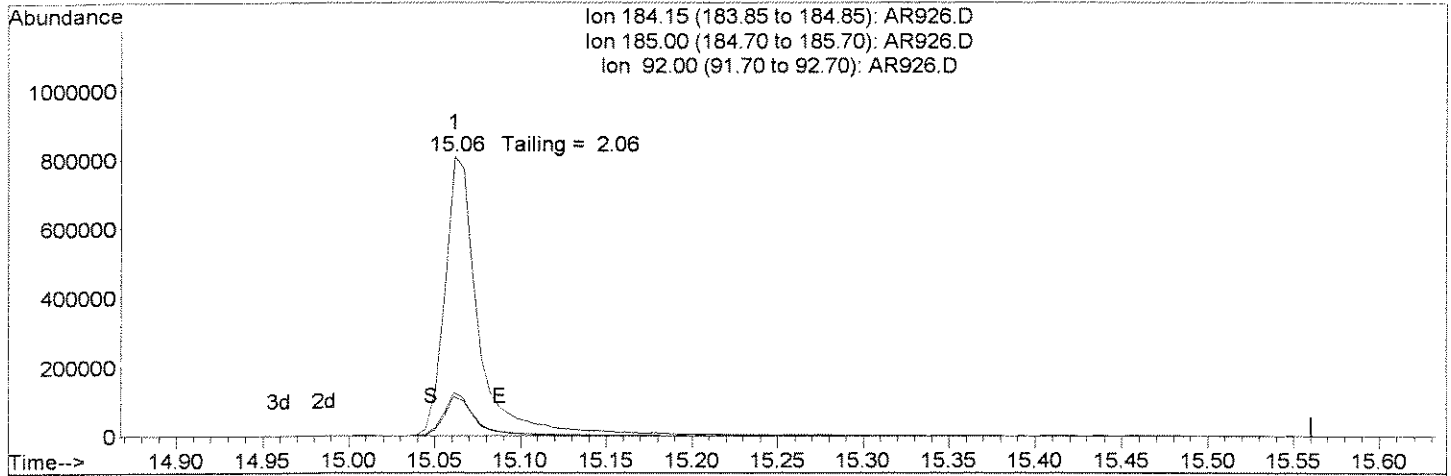
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR926.D
 Acq On : 26 Jun 2008 4:24 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 9:48 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:48:38 2008
 Response via : Single Level Calibration



TIC: AR926.D

(8) Benzidine (T)

15.06min 10.00ppm

response 1130989

Ion	Exp%	Act%
184.15	100	100
185.00	14.00	14.00
92.00	15.40	15.45
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR939.D Vial: 13
 Acq On : 26 Jun 2008 11:53 pm Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:27:49 2008 Quant Results File: TUNEC.RES

Quant Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Initial Calibration
 DataAcq Meth : TUNEC

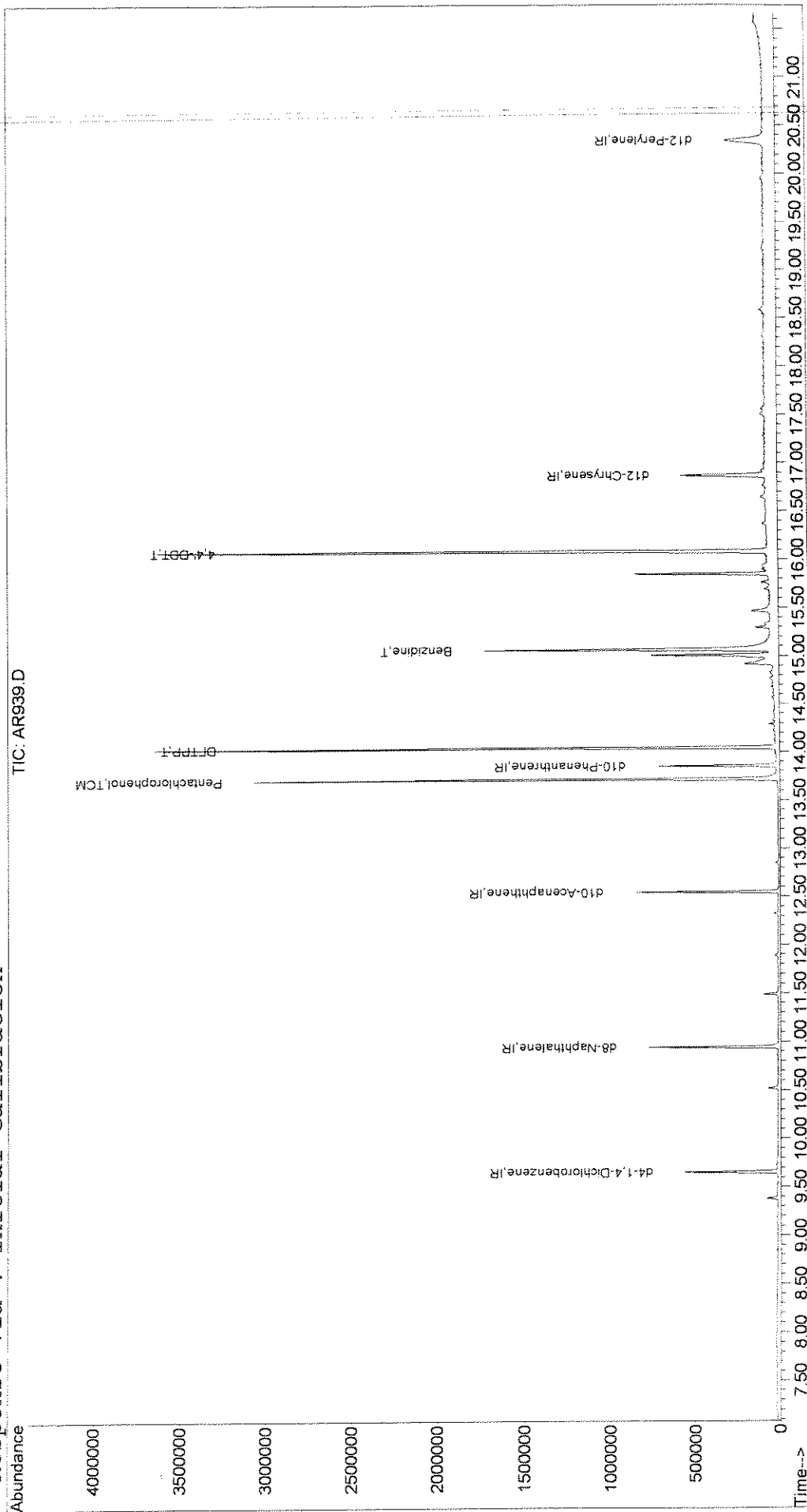
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	9.65	152	82580	1.00	ppm	0.00
2) d8-Naphthalene	10.94	136	316726	1.00	ppm	0.00
3) d10-Acenaphthene	12.54	164	158148	1.00	ppm	0.00
4) d10-Phenanthrene	13.85	188	253776	1.00	ppm	0.00
7) d12-Chrysene	16.87	240	252702	1.00	ppm	0.00
12) d12-Perylene	20.34	264	197993	1.00	ppm	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Pentachlorophenol	13.71	266	330170	10.39	ppm	94
6) DFTPP	14.05	198	315124	10.90	ppm	88
8) Benzidine	15.06	184	837955	9.43	ppm	99
9) 4,4'-DDE	0.00	246	0	N.D.		
10) 4,4'-DDD	0.00	235	0	N.D.		
11) 4,4'-DDT	16.08	235	740982	10.42	ppm	98

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR939.D
Acq On : 26 Jun 2008 11:53 pm
Sample : TUNE CHECK
Misc : 20 ng DFTPP
MS Integration Params: RTEINT.P
Quant Time: Jun 27 10:27 2008
Quant Results File: TUNEC.RES

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
Title : TUNE CHECK
Last Update : Fri Jun 27 09:49:26 2008
Response via : Initial Calibration



00540

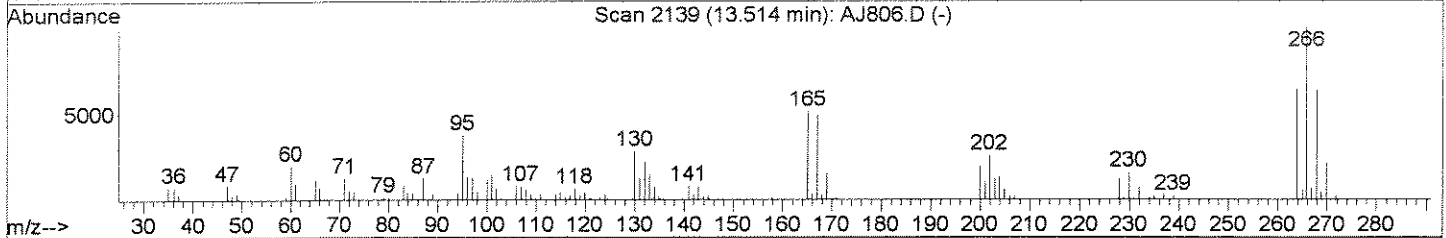
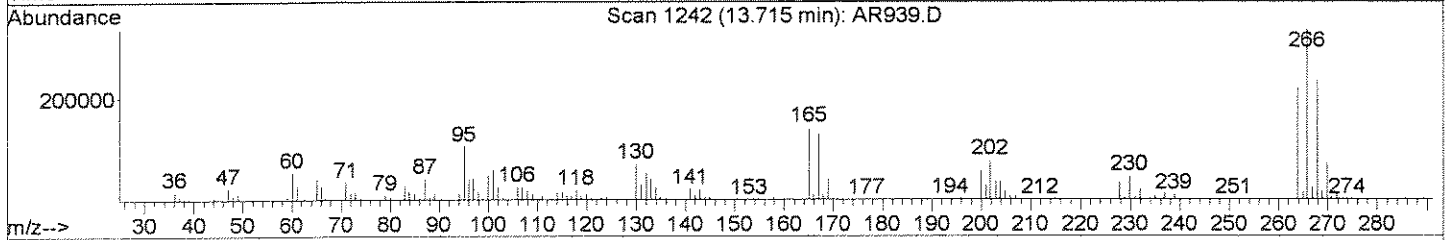
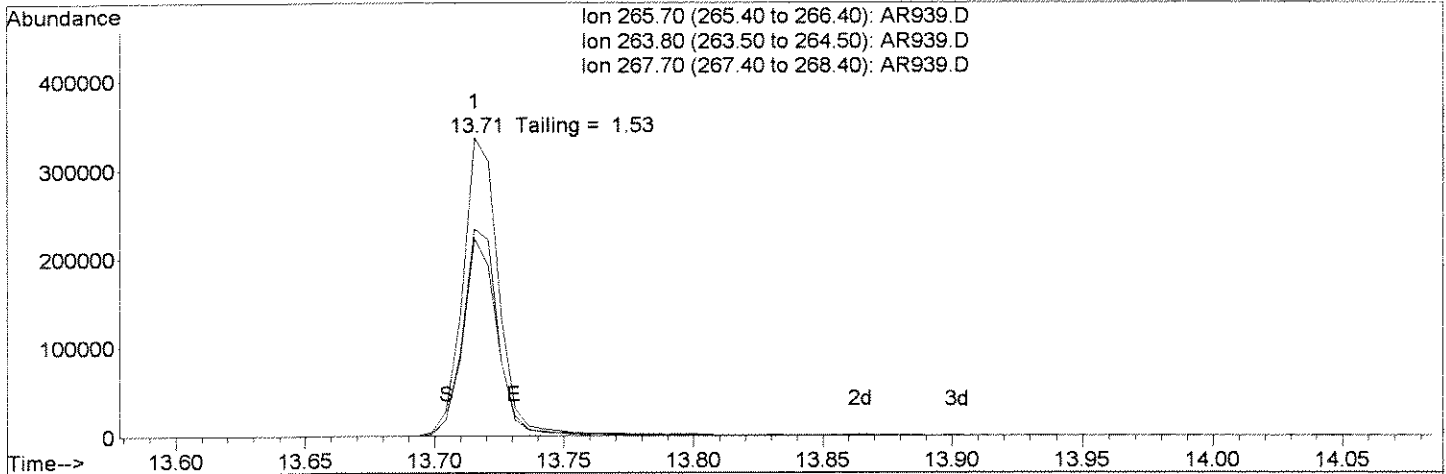
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR939.D
 Acq On : 26 Jun 2008 11:53 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:27 2008

Vial: 13
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



TIC: AR939.D

(5) Pentachlorophenol (TCM)

13.71min 10.39ppm

response 330170

Ion	Exp%	Act%
265.70	100	100
263.80	60.30	66.26
267.70	65.70	69.56
0.00	0.00	0.00

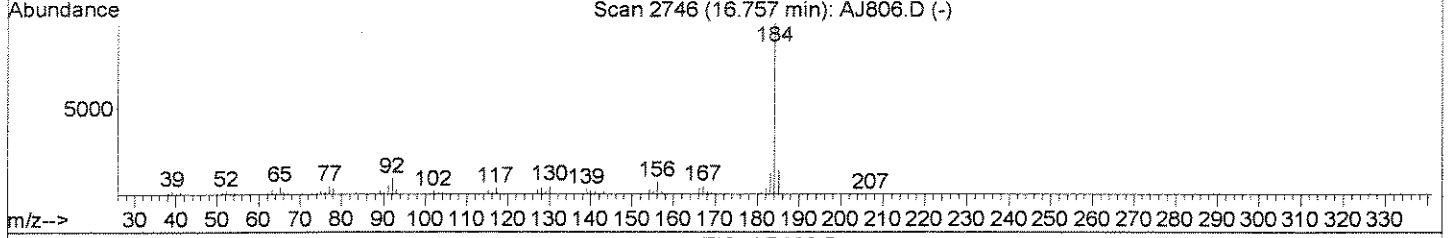
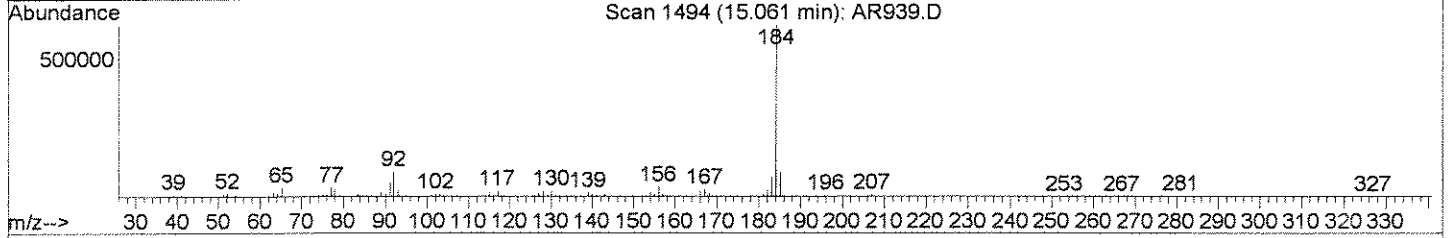
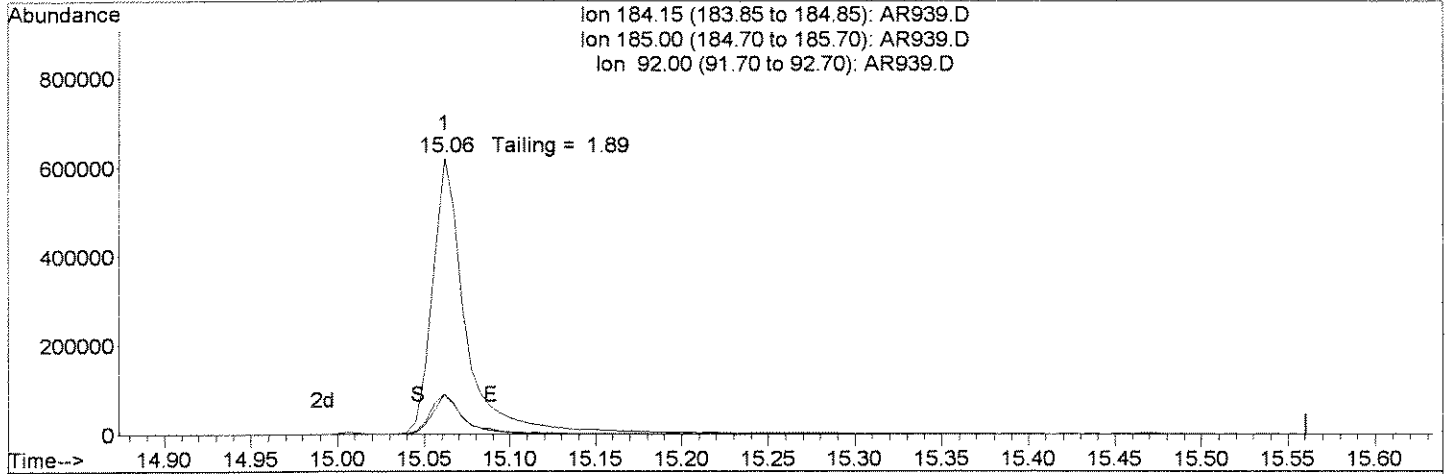
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\062608\AR939.D
 Acq On : 26 Jun 2008 11:53 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:27 2008

Vial: 13
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



TIC: AR939.D

(8) Benzidine (T)

15.06min 9.43ppm

response 837955

Ion	Exp%	Act%
184.15	100	100
185.00	14.00	14.30
92.00	15.40	14.64
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\063008\AR981.D Vial: 1
 Acq On : 30 Jun 2008 8:51 am Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 09:12:53 2008 Quant Results File: TUNEC.RES

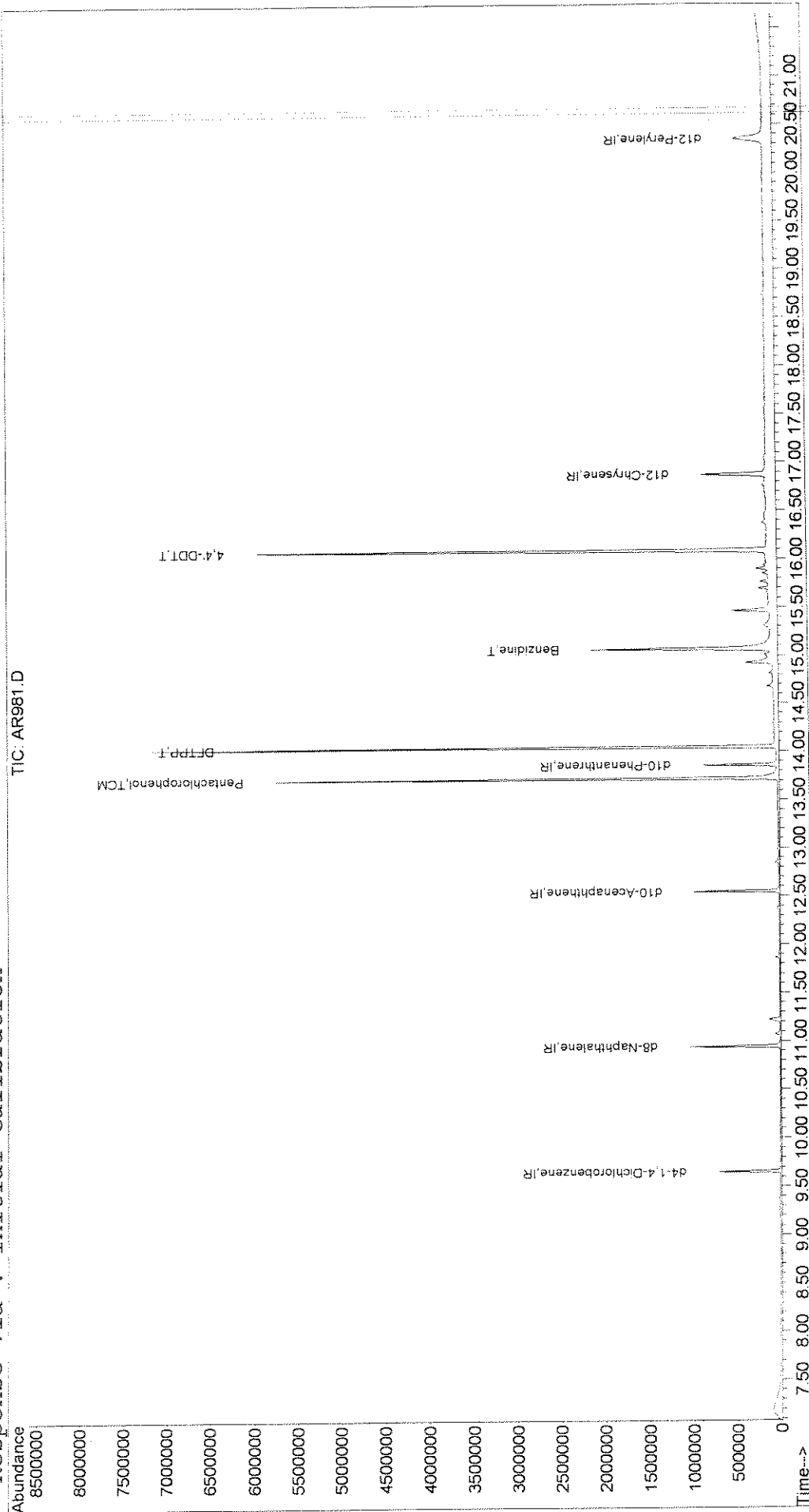
Quant Method : J:\ACQUADATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Initial Calibration
 DataAcq Meth : TUNEC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) d4-1,4-Dichlorobenzene	9.65	152	99073	1.00	ppm	0.00	
2) d8-Naphthalene	10.94	136	404610	1.00	ppm	0.00	
3) d10-Acenaphthene	12.55	164	200622	1.00	ppm	0.00	
4) d10-Phenanthrene	13.86	188	331386	1.00	ppm	0.00	
7) d12-Chrysene	16.87	240	354918	1.00	ppm	0.00	
12) d12-Perylene	20.35	264	299175	1.00	ppm	0.00	
							Qvalue
Target Compounds							
5) Pentachlorophenol	13.72	266	635544	15.31	ppm		97
6) DFTPP	14.05	198	586597	15.53	ppm		95
8) Benzidine	15.07	184	1098736	8.81	ppm		99
9) 4,4'-DDE	0.00	246	0	N.D.			
10) 4,4'-DDD	0.00	235	0	N.D.	d		
11) 4,4'-DDT	16.09	235	1287258	12.89	ppm		98

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR981.D
Acq On : 30 Jun 2008 8:51 am Vial: 1
Sample : TUNE CHECK Operator: J.Wu
Misc : 20 ng DFPPP Inst : 5973C
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: Jun 30 9:17 2008 Quant Results File: TUNEC.RES

Method : J:\ACQDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
Title : TUNE CHECK
Last Update : Fri Jun 27 09:49:26 2008
Response via : Initial Calibration



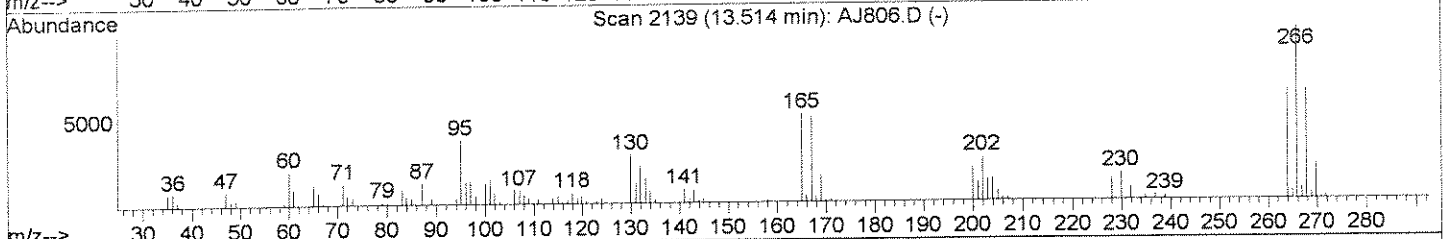
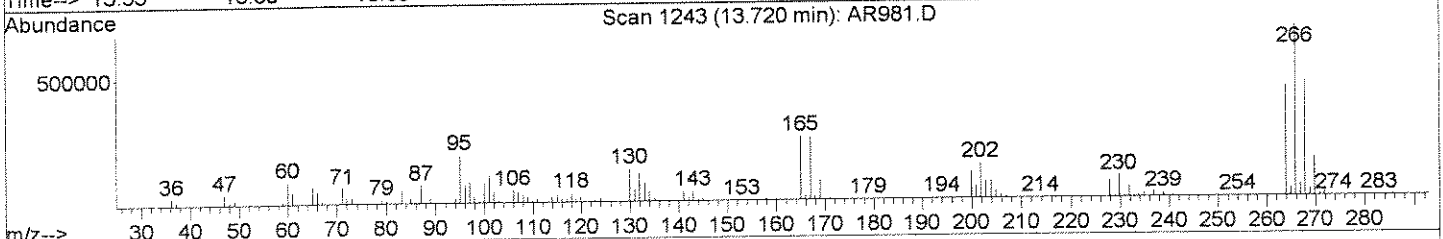
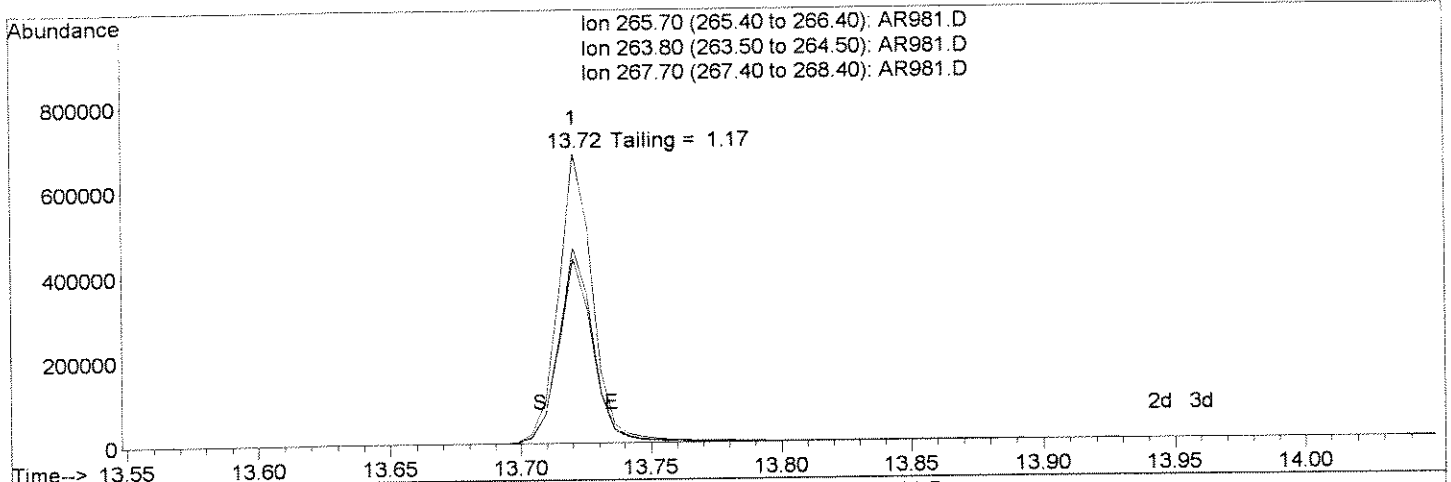
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR981.D
 Acq On : 30 Jun 2008 8:51 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 9:12 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



(5) Pentachlorophenol (TCM)

13.72min 15.31ppm

response 635544

Ion	Exp%	Act%
265.70	100	100
263.80	60.30	63.64
267.70	65.70	67.43
0.00	0.00	0.00

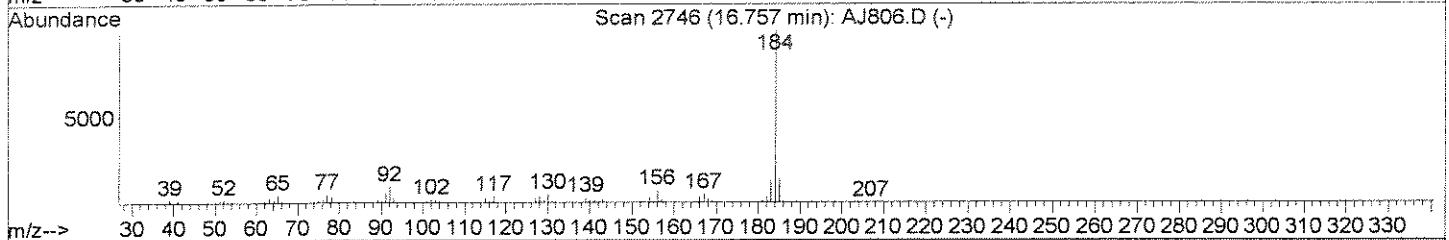
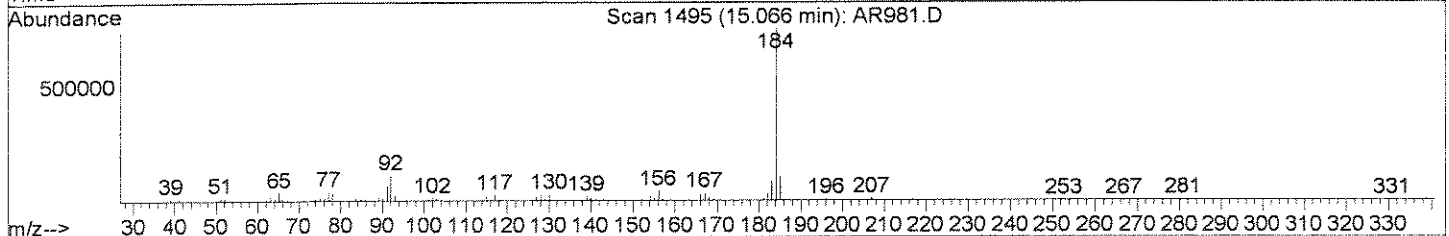
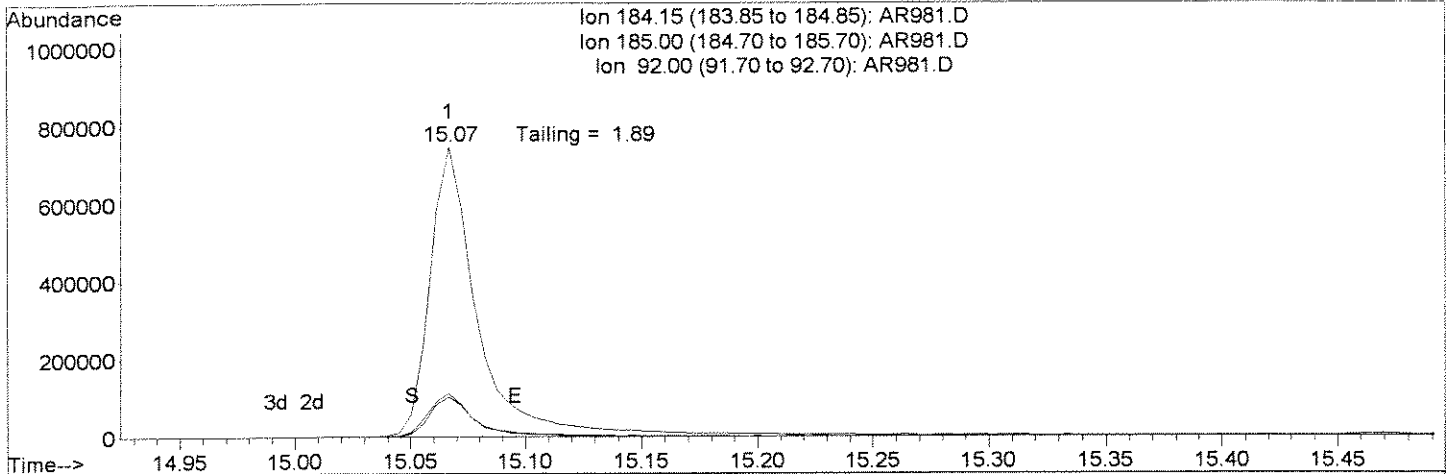
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR981.D
 Acq On : 30 Jun 2008 8:51 am
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 9:12 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



TIC: AR981.D

(8) Benzidine (T)

15.07min 8.81ppm

response 1098736

Ion	Exp%	Act%
184.15	100	100
185.00	14.00	13.76
92.00	15.40	14.99
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

ta File : J:\ACQUDATA\5973C\DATA\070108\AS010.D Vial: 1
 q On : 1 Jul 2008 12:22 pm Operator: J.Wu
 mple : TUNE CHECK Inst : 5973C
 sc : 20 ng DFTPP Multiplr: 1.00
 Integration Params: RTEINT.P
 ant Time: Jul 01 12:44:25 2008 Quant Results File: TUNEC.RES

ant Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 tle : TUNE CHECK
 st Update : Fri Jun 27 09:49:26 2008
 sponse via : Initial Calibration
 taAcq Meth : TUNEC

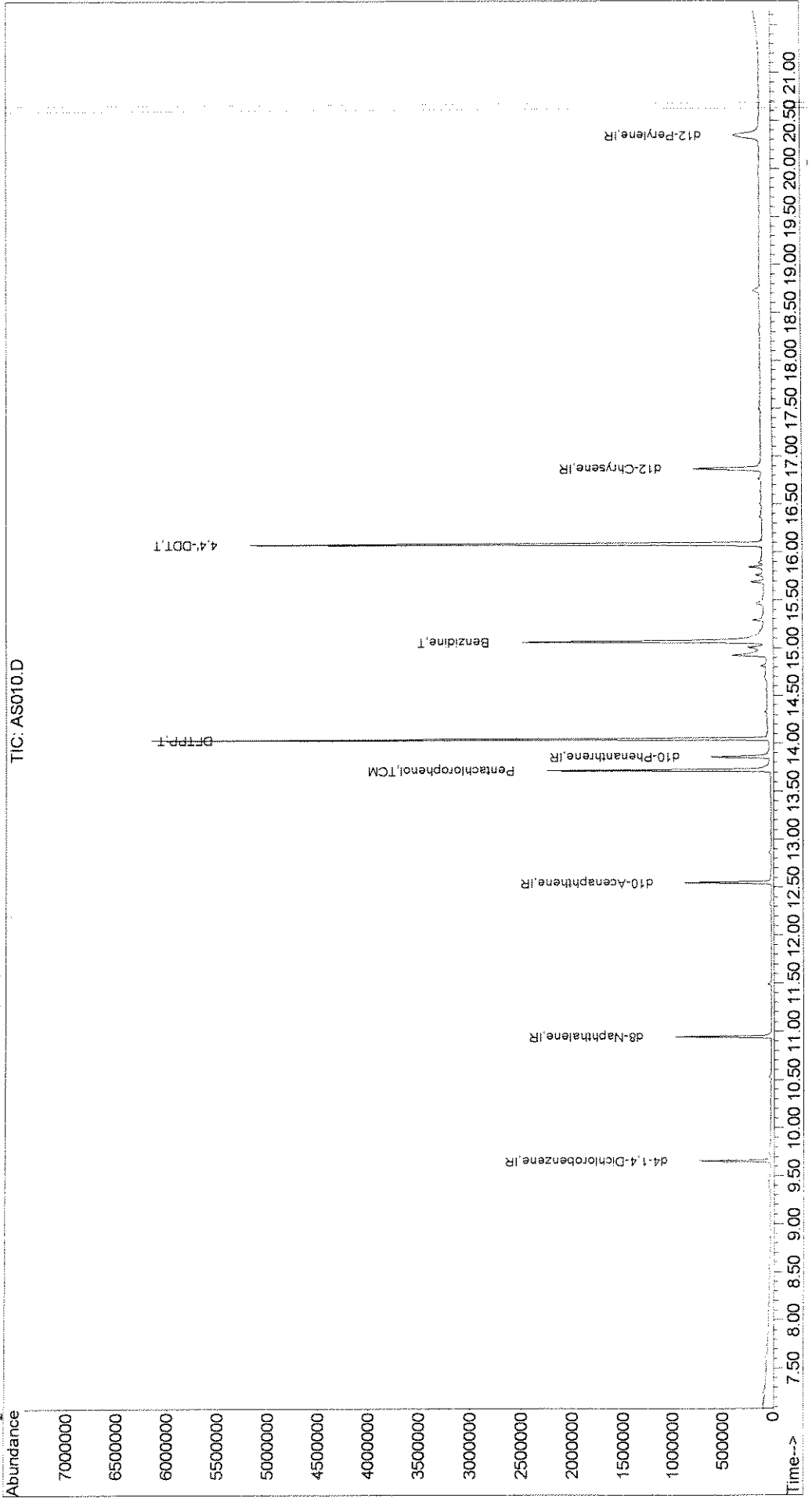
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	9.65	152	94562	1.00	ppm	0.00
2) d8-Naphthalene	10.94	136	378057	1.00	ppm	0.00
3) d10-Acenaphthene	12.54	164	177985	1.00	ppm	0.00
4) d10-Phenanthrene	13.86	188	292086	1.00	ppm	0.00
7) d12-Chrysene	16.87	240	345118	1.00	ppm	0.00
12) d12-Perylene	20.34	264	262323	1.00	ppm	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Pentachlorophenol	13.72	266	294712	8.06	ppm	98
6) DFTPP	14.05	198	500378	15.03	ppm	91
8) Benzidine	15.06	184	1393986	11.49	ppm	100
9) 4,4'-DDE	0.00	246	0	N.D.	d	
10) 4,4'-DDD	0.00	235	0	N.D.	d	
11) 4,4'-DDT	16.08	235	1100037	11.33	ppm	97

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS010.D Vial: 1
Acq On : 1 Jul 2008 12:22 pm Operator: J.Wu
Sample : TUNE CHECK Inst : 5973C
Misc : 20 ng DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 1 13:39 2008 Quant Results File: TUNEC.RES

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
Title : TUNE CHECK
Last Update : Fri Jun 27 09:49:26 2008
Response via : Initial Calibration



00548

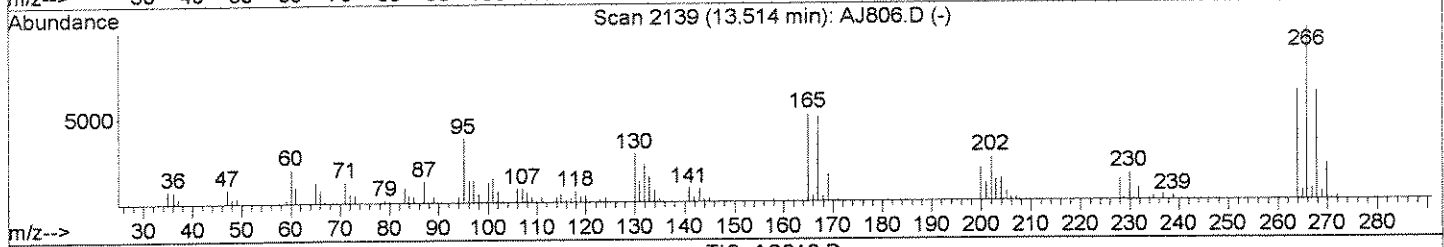
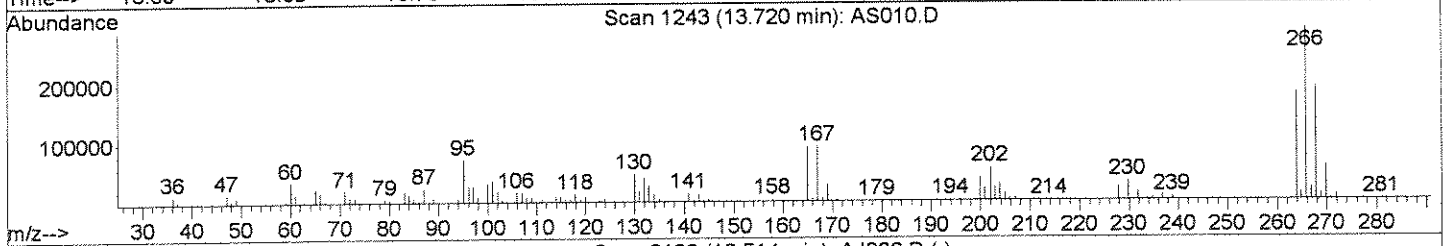
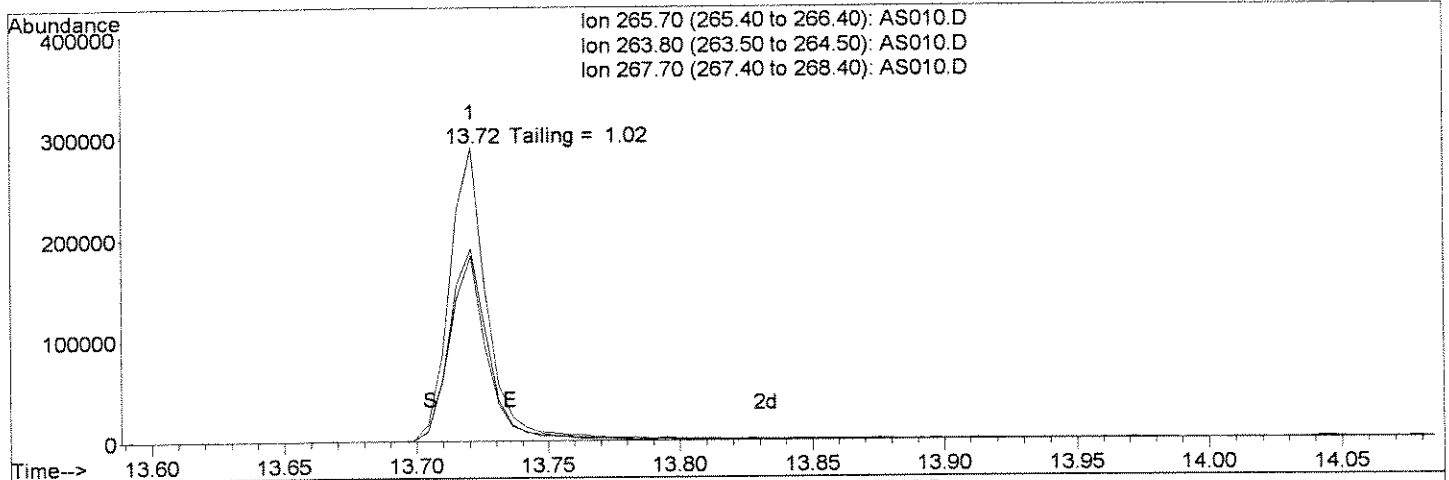
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS010.D
 Acq On : 1 Jul 2008 12:22 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jul 1 12:44 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



TIC: AS010.D

(5) Pentachlorophenol (TCM)

13.72min 8.06ppm

response 294712

Ion	Exp%	Act%
265.70	100	100
263.80	60.30	62.96
267.70	65.70	65.74
0.00	0.00	0.00

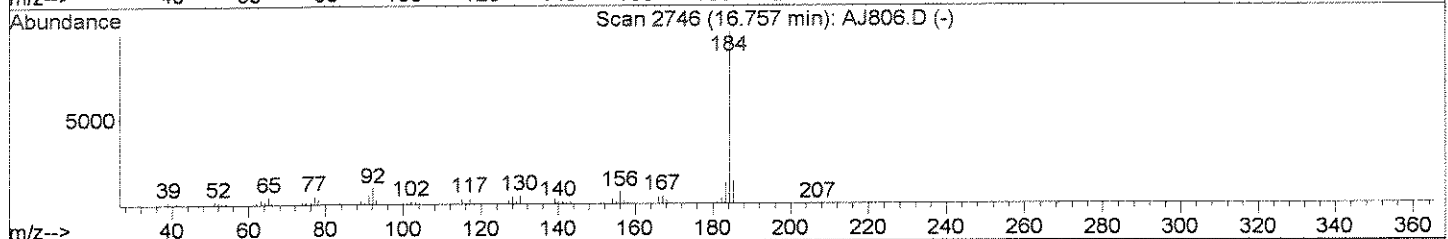
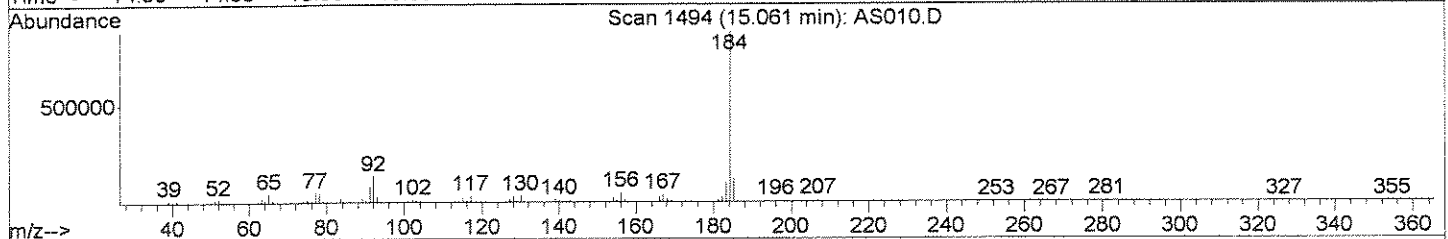
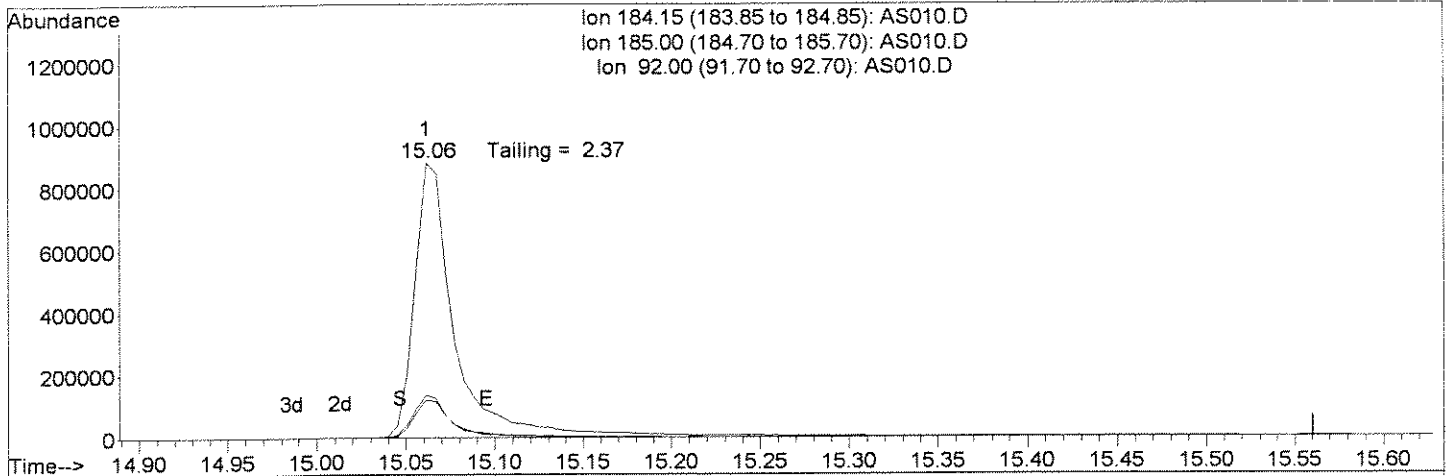
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973C\DATA\070108\AS010.D
 Acq On : 1 Jul 2008 12:22 pm
 Sample : TUNE CHECK
 Misc : 20 ng DFTPP
 MS Integration Params: RTEINT.P
 Quant Time: Jul 1 12:44 2008

Vial: 1
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK
 Last Update : Fri Jun 27 09:49:26 2008
 Response via : Single Level Calibration



TIC: AS010.D

(8) Benzidine (T)

15.06min 11.49ppm

response 1393986

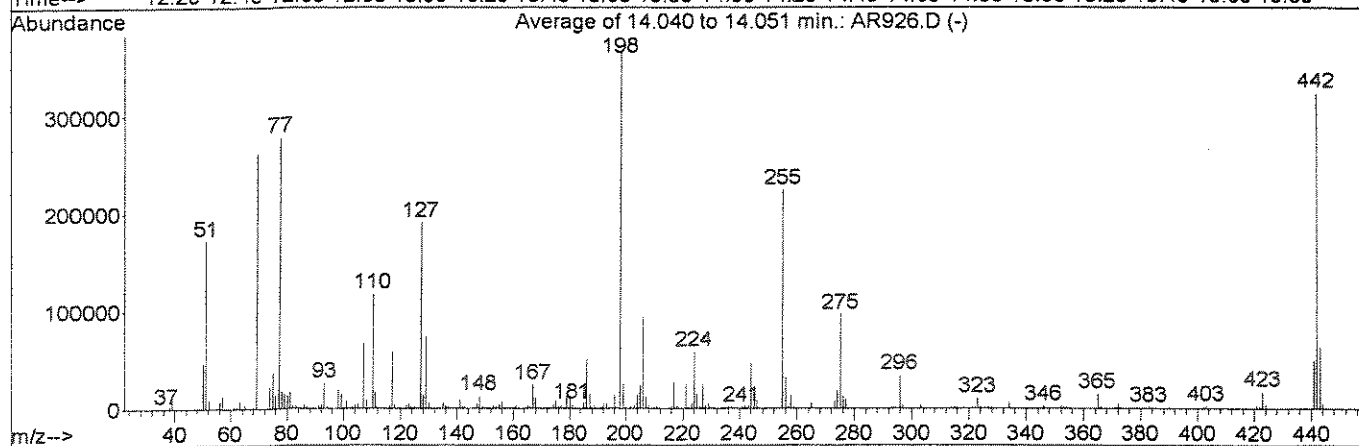
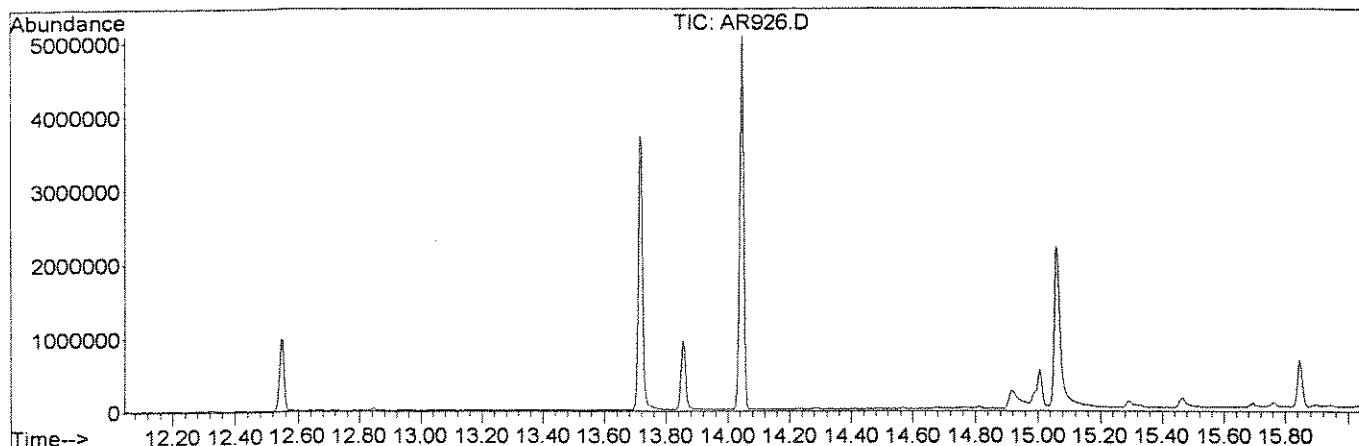
Ion	Exp%	Act%
184.15	100	100
185.00	14.00	13.76
92.00	15.40	15.57
0.00	0.00	0.00

SEMIVOLATILE ORGANICS

RAW QC DATA

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\062608\AR926.D Vial: 1
 Acq On : 26 Jun 2008 4:24 pm Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK

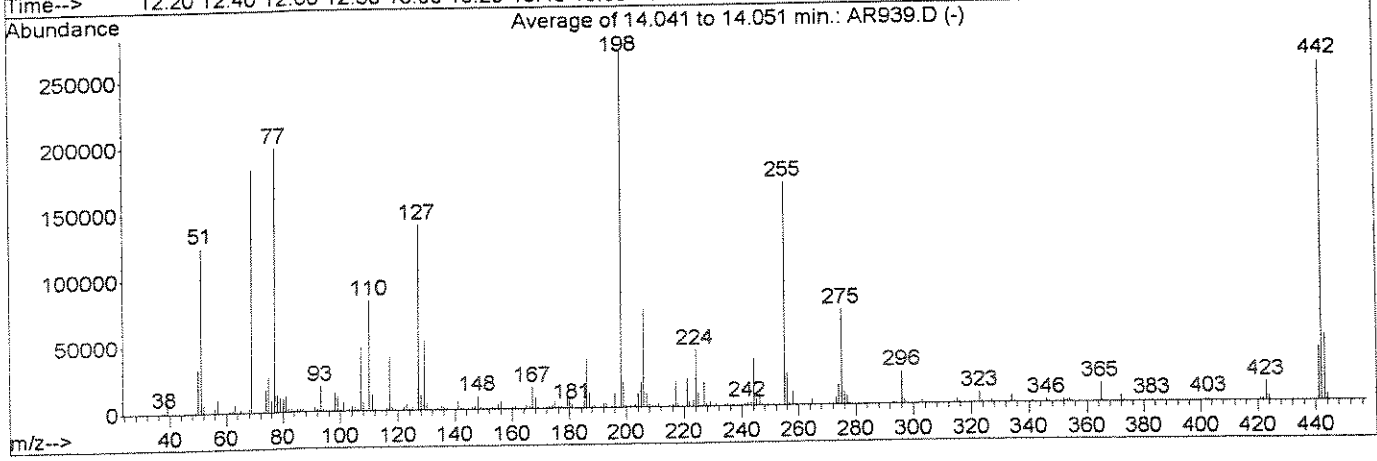
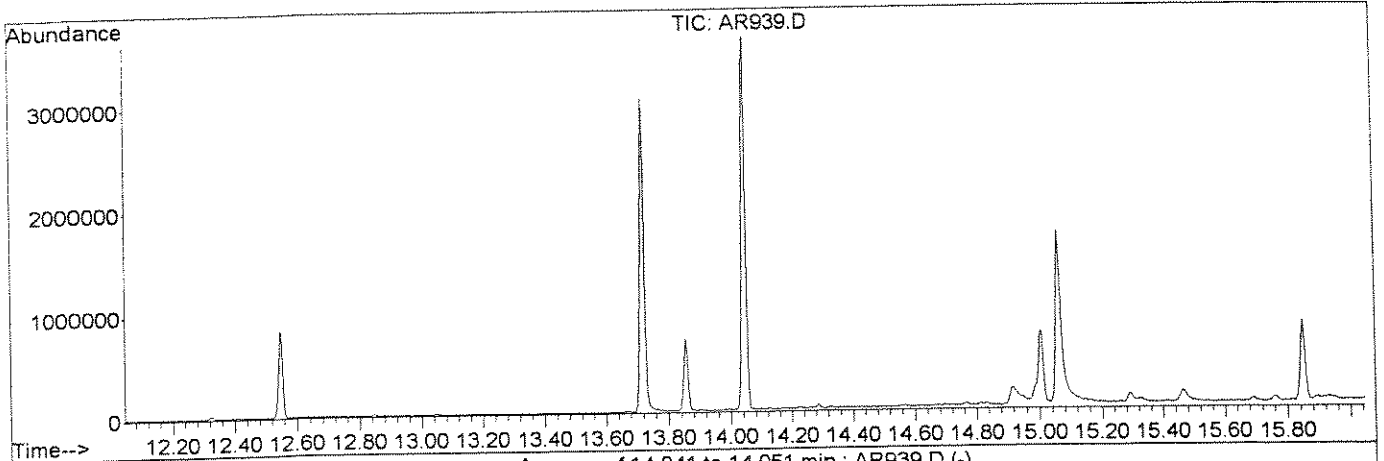


AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1296

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.1	172809	PASS
68	69	0.00	2	0.9	2305	PASS
69	198	0.00	100	71.7	263018	PASS
70	69	0.00	2	0.3	769	PASS
127	198	40	60	52.3	191842	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	366784	PASS
199	198	5	9	7.2	26242	PASS
275	198	10	30	26.4	96925	PASS
365	198	1	100	4.1	15178	PASS
441	443	0.01	100	77.8	49080	PASS
442	198	40	100	88.4	324160	PASS
443	442	17	23	19.5	63072	PASS

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\062608\AR939.D Vial: 13
 Acq On : 26 Jun 2008 11:53 pm Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK

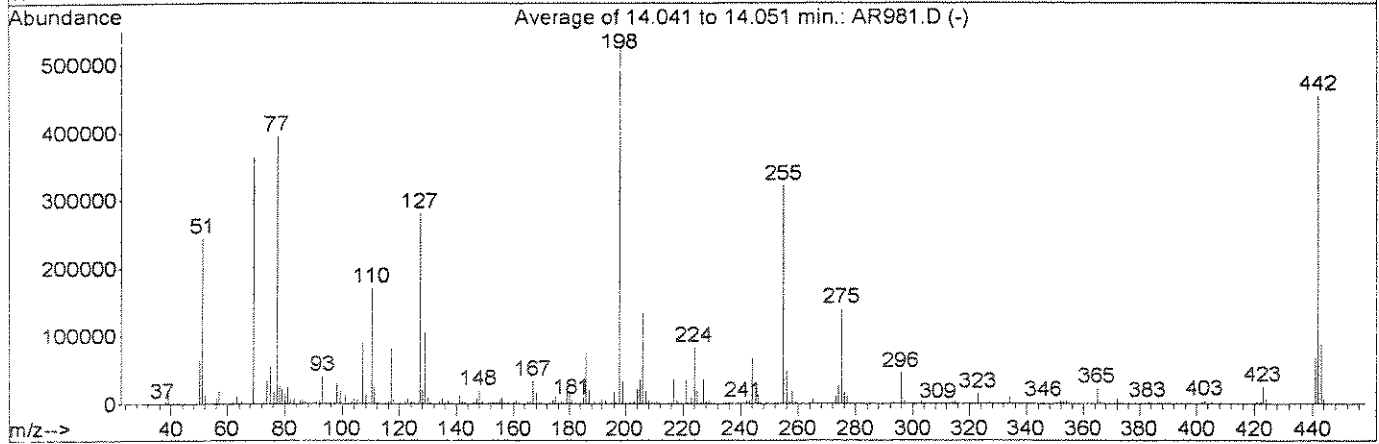
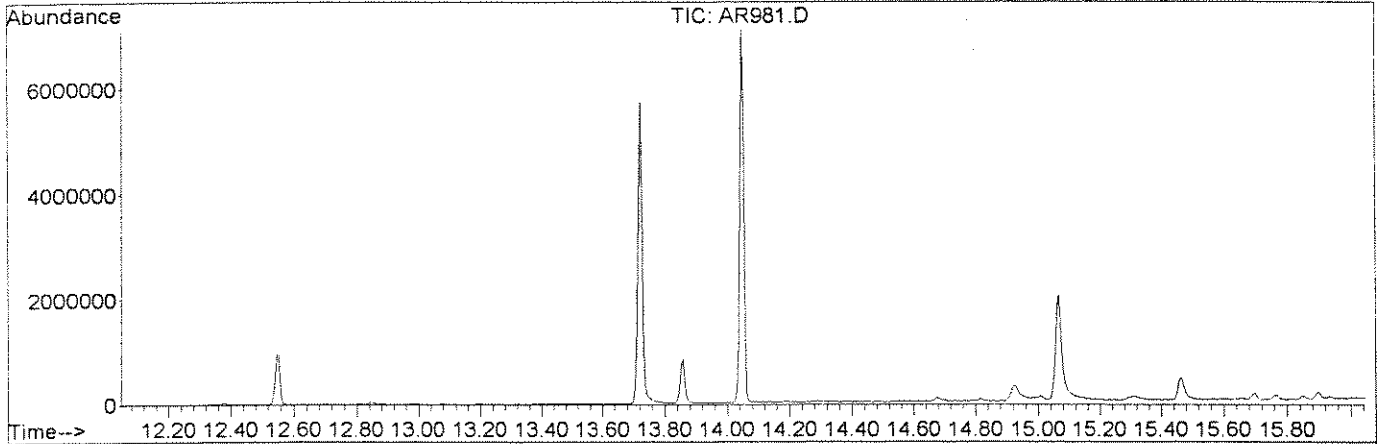


AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1296

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.3	124675	PASS
68	69	0.00	2	1.5	2730	PASS
69	198	0.00	100	68.1	183589	PASS
70	69	0.00	2	0.4	819	PASS
127	198	40	60	51.8	139498	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	269525	PASS
199	198	5	9	7.1	19025	PASS
275	198	10	30	26.6	71586	PASS
365	198	1	100	5.1	13765	PASS
441	443	0.01	100	79.9	40157	PASS
442	198	40	100	95.1	256213	PASS
443	442	17	23	19.6	50264	PASS

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\063008\AR981.D Vial: 1
 Acq On : 30 Jun 2008 8:51 am Operator: J.Wu
 Sample : TUNE CHECK Inst : 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK

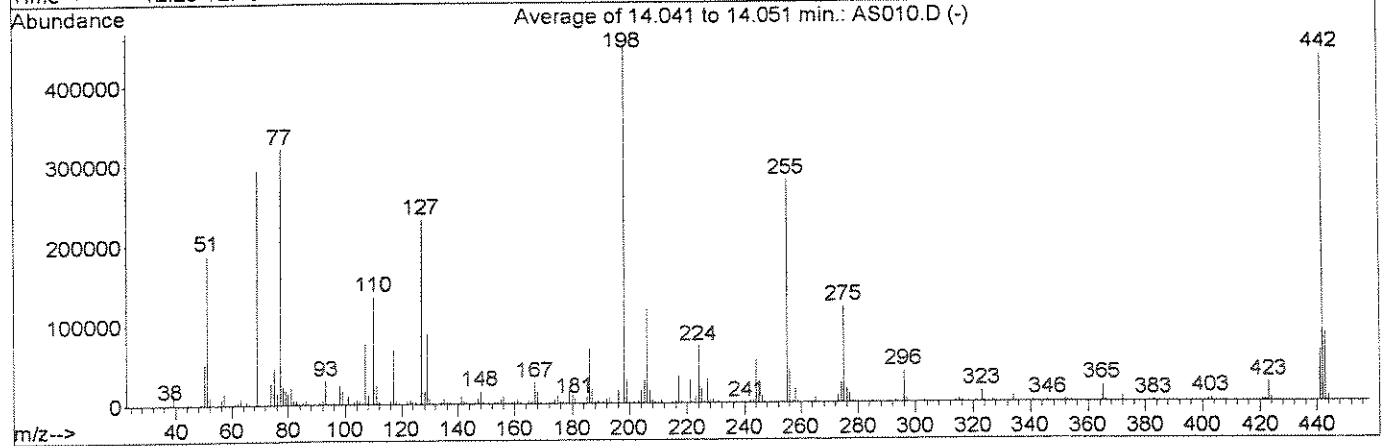
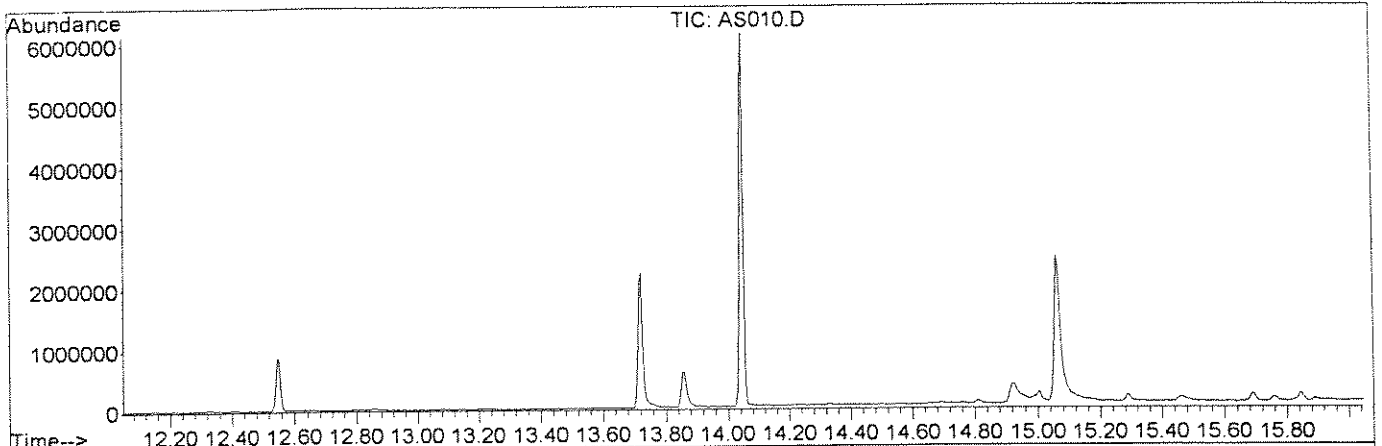


AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.5	245022	PASS
68	69	0.00	2	0.4	1595	PASS
69	198	0.00	100	69.3	364979	PASS
70	69	0.00	2	0.5	1966	PASS
127	198	40	60	53.5	281642	PASS
197	198	0.00	1	0.7	3798	PASS
198	198	100	100	100.0	526634	PASS
199	198	5	9	6.5	34122	PASS
275	198	10	30	26.6	140125	PASS
365	198	1	100	4.3	22736	PASS
441	443	0.01	100	77.7	68509	PASS
442	198	40	100	86.3	454506	PASS
443	442	17	23	19.4	88208	PASS

DFTPP

Data File : J:\ACQUDATA\5973C\DATA\070108\AS010.D Vial: 1
 Acq On : 1 Jul 2008 12:22 pm Operator: J.Wu
 Sample : TUNE CHECK Inst: 5973C
 Misc : 20 ng DFTPP Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : J:\ACQUDATA\5973C\METHODS\TUNEC.M (RTE Integrator)
 Title : TUNE CHECK



AutoFind: Scans 1303, 1304, 1305; Background Corrected with Scan 1297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.1	188713	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	65.6	294035	PASS
70	69	0.00	2	0.6	1668	PASS
127	198	40	60	51.7	231658	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	447914	PASS
199	198	5	9	6.7	30137	PASS
275	198	10	30	26.8	119984	PASS
365	198	1	100	4.6	20613	PASS
441	443	0.01	100	73.8	64168	PASS
442	198	40	100	97.0	434410	PASS
443	442	17	23	20.0	86928	PASS

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/30/08

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1113573 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163181

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/23/08			
DATE ANALYZED : 06/27/08			
ANALYTICAL DILUTION: 1.00			
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	0.31 J	UG/L
DI-N-BUTYLPHTHALATE	5.0	1.8 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	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
HEXACHLORO BENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.060 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	0.20 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 %)	101	%
NITROBENZENE-d5	(45 - 135 %)	90	%
2-FLUOROBIPHENYL	(45 - 135 %)	88	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\062608\AR942.D Vial: 16
 Acq On : 27 Jun 2008 1:32 am Operator: J.Wu
 Sample : 1113573 1.0 Inst : 5973C
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA BLK Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:48:45 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	86449	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	331802	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	135013	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	338892	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	305305	1.00	ppm	0.00
33) d12-Perylene	21.31	264	210974	1.00	ppm	0.00

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	340241	1.79	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	89.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	435230	1.75	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	87.50%
28) SURR6,TERPHENYL-D14	16.25	244	519992	2.01	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	100.50%

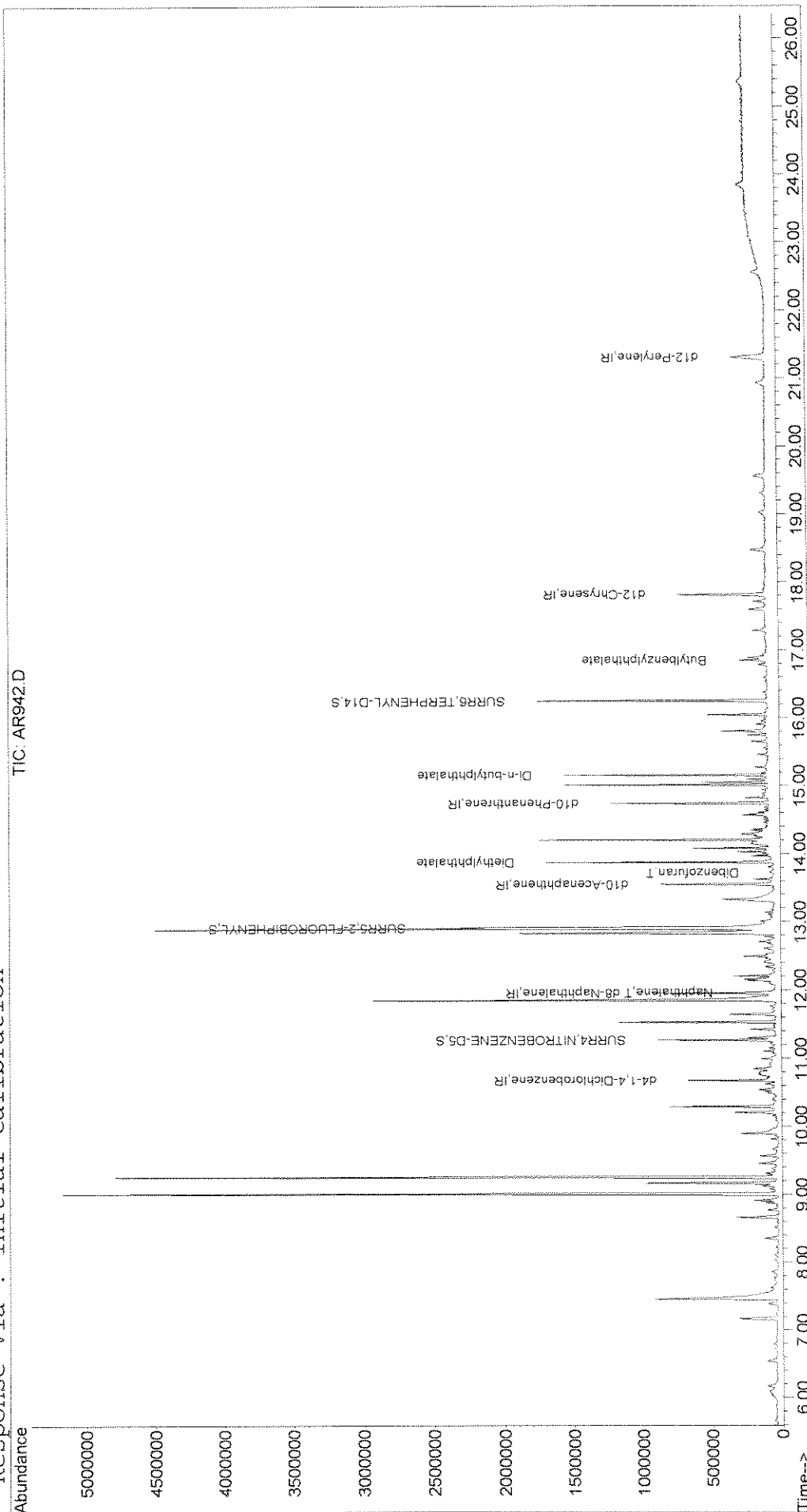
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
7) Naphthalene	11.97	128	19008	0.06	ppm	95
15) Dibenzofuran	13.72	168	3503	0.22	ppm	79
17) Diethylphthalate	13.88	149	48353	0.22	ppm	97
24) Di-n-butylphthalate	15.15	149	646838	1.78	ppm	99
29) Butylbenzylphthalate	16.85	149	48201	0.31	ppm	88

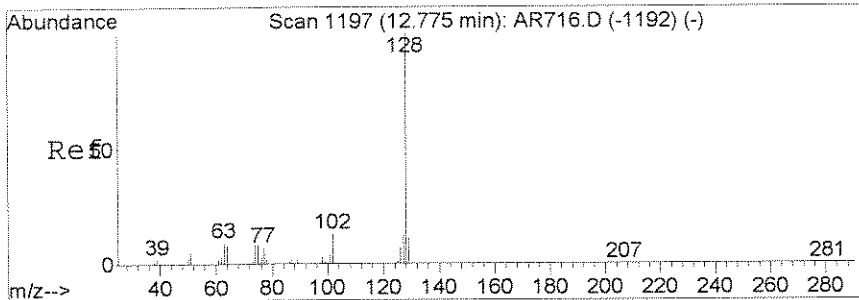
Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\062608\AR942.D Vial: 16
 Acq On : 27 Jun 2008 1:32 am Operator: J.Wu
 Sample : 1113573 1.0 Inst : 5973C
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA BLK Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 27 10:50 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration

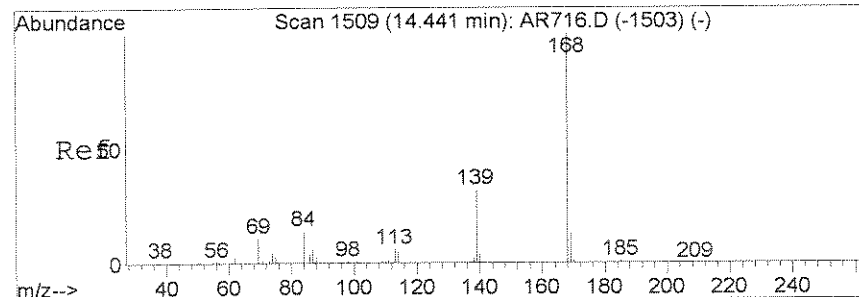
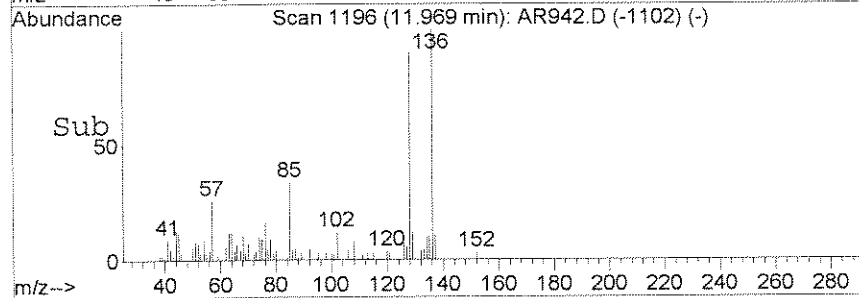
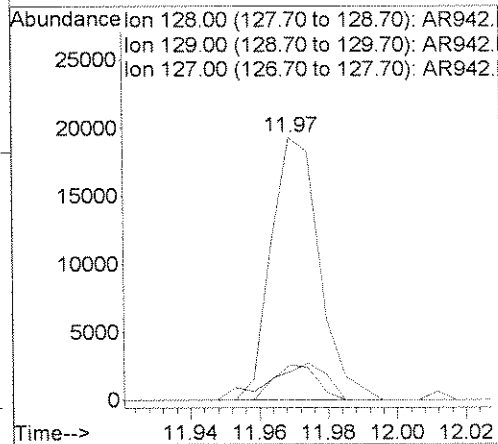
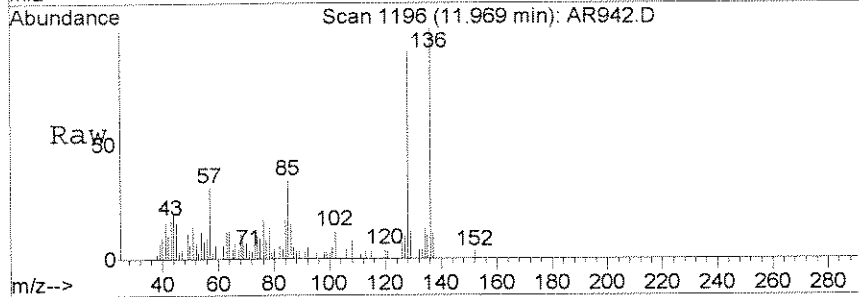


5973C



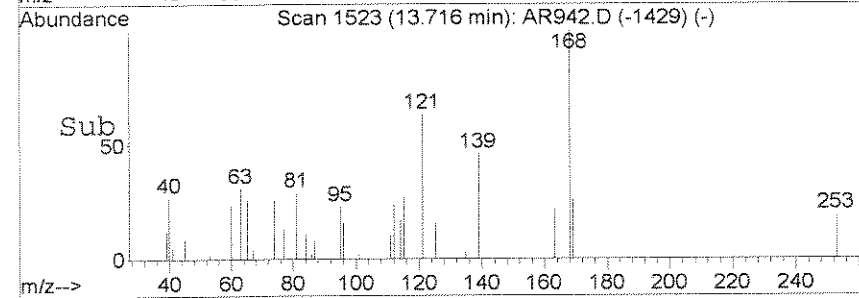
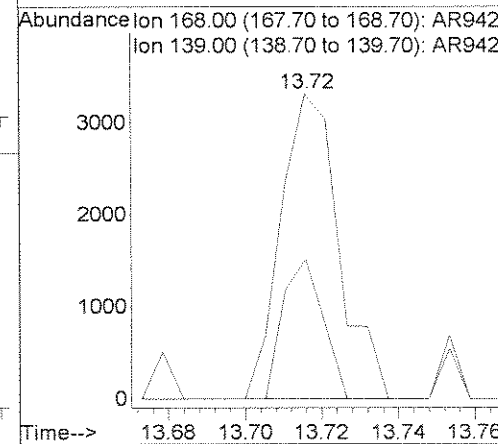
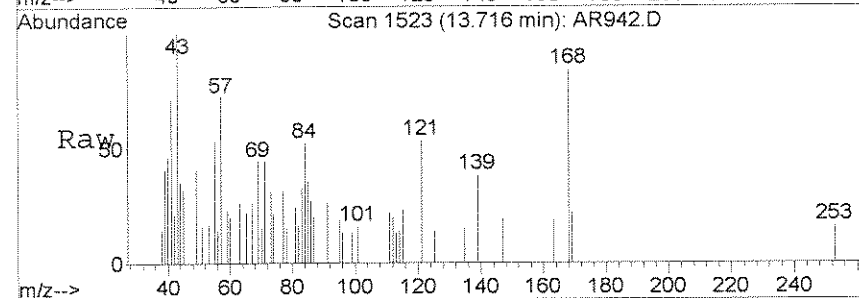
#7
 Naphthalene
 Concen: 0.06 ppm
 RT: 11.97 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: AR942.D
 Acq: 27 Jun 2008 1:32 am

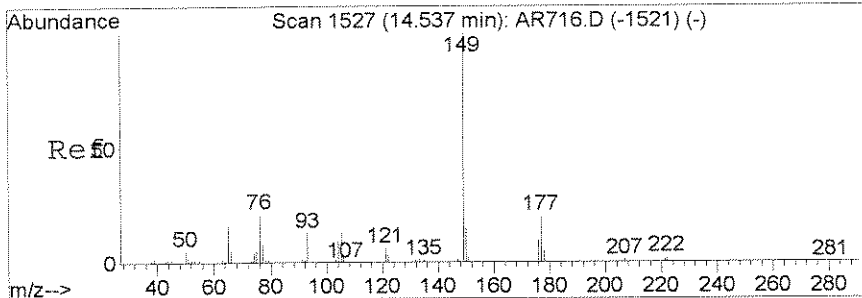
Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.4	0.0	31.0
127	10.8	0.0	32.4



#15
 Dibenzofuran
 Concen: 0.22 ppm
 RT: 13.72 min Scan# 1523
 Delta R.T. 0.00 min
 Lab File: AR942.D
 Acq: 27 Jun 2008 1:32 am

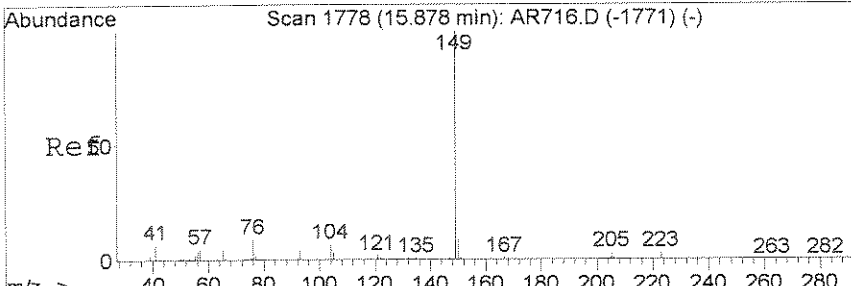
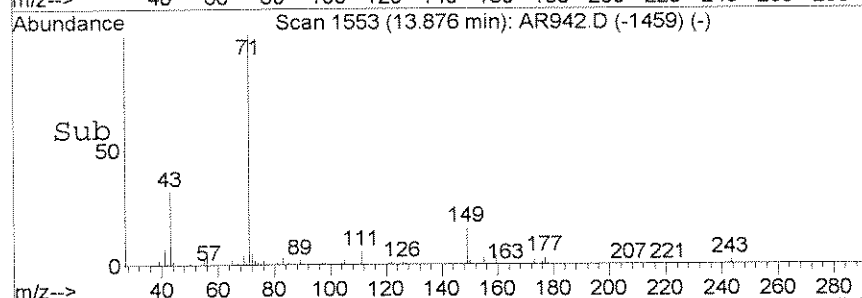
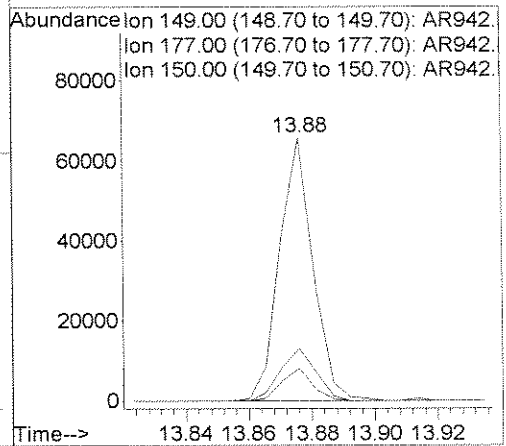
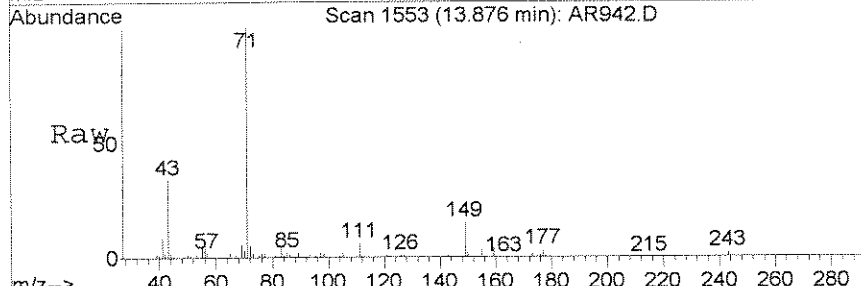
Tgt Ion	Ratio	Lower	Upper
168	100		
139	45.8	13.7	53.7





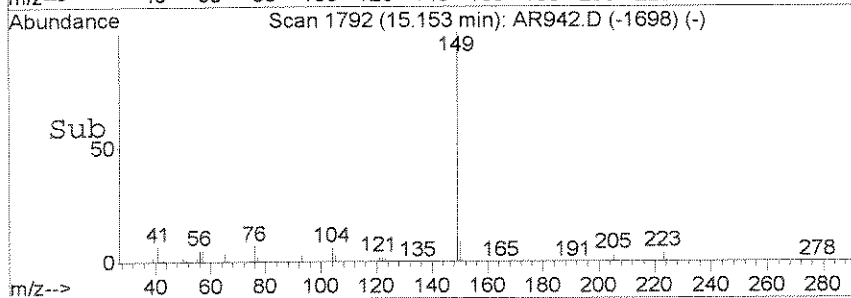
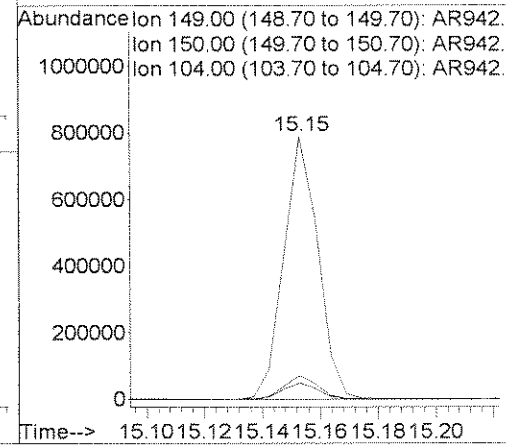
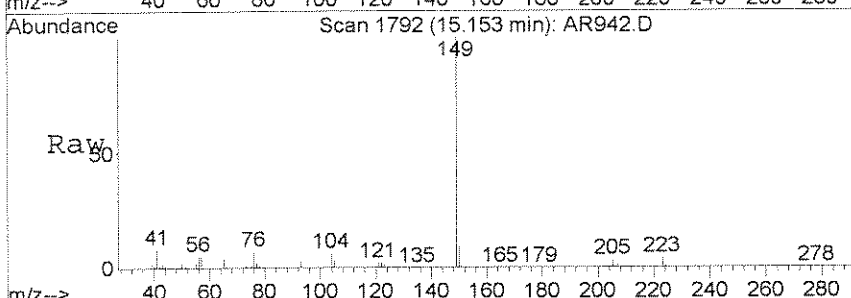
#17
 Diethylphthalate
 Concen: 0.22 ppm
 RT: 13.88 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: AR942.D
 Acq: 27 Jun 2008 1:32 am

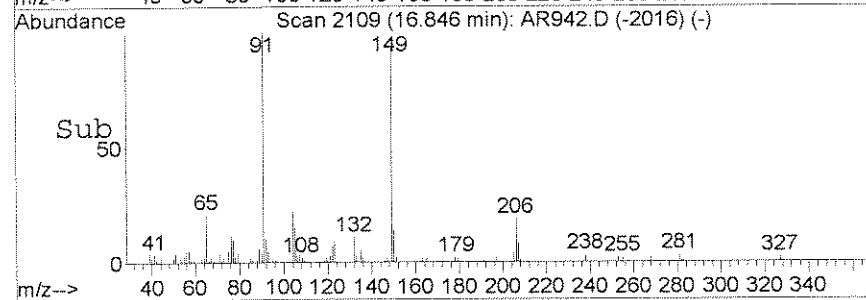
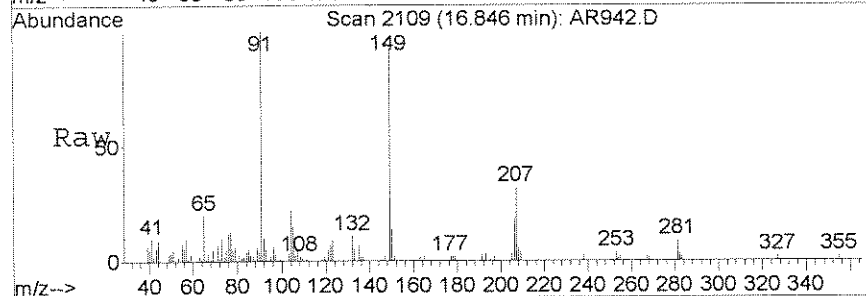
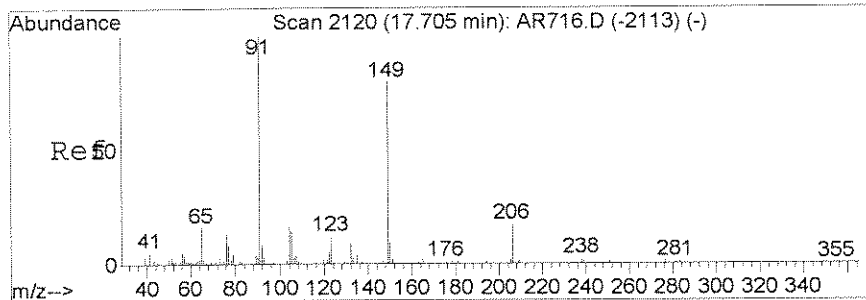
Tgt Ion	Resp	Lower	Upper
149	48353		
177	19.8	15.3	28.3
150	12.3	8.3	15.3



#24
 Di-n-butylphthalate
 Concen: 1.78 ppm
 RT: 15.15 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: AR942.D
 Acq: 27 Jun 2008 1:32 am

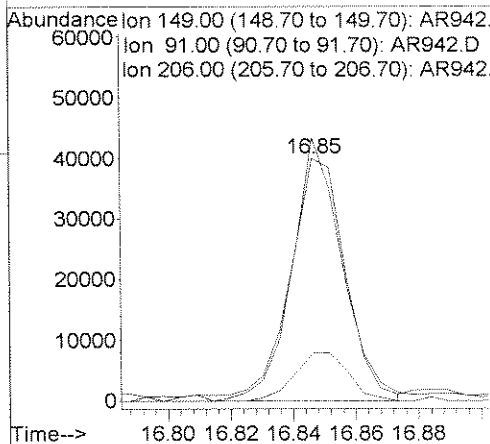
Tgt Ion	Resp	Lower	Upper
149	646838		
150	8.9	6.4	12.0
104	6.1	4.4	8.2





#29
 Butylbenzylphthalate
 Concen: 0.31 ppm
 RT: 16.85 min Scan# 2109
 Delta R.T. -0.01 min
 Lab File: AR942.D
 Acq: 27 Jun 2008 1:32 am

Tgt Ion	Resp	Lower	Upper
149	48201		
91	107.0	65.7	122.1
206	19.9	12.7	23.5



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C.NEVA

Reported: 07/30/08

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1113598 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
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	5.0 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	5.0 U	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
HEXACHLORO BENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.20 U	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	0.20 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 %)	97	%
NITROBENZENE-d5	(45 - 135 %)	80	%
2-FLUOROBIPHENYL	(45 - 135 %)	72	%

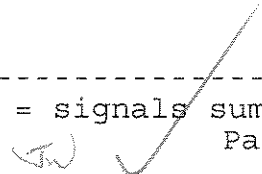
Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR995.D Vial: 14
 Acq On : 30 Jun 2008 4:57 pm Operator: J.Wu
 Sample : 1113598 1.0 Inst : 5973C
 Misc : 06/26/2008 1.0 8270.LL BLK Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 17:24:16 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	83863	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	325505	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	155906	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	369590	1.00	ppm	0.00
26) d12-Chrysene	17.82	240	328462	1.00	ppm	0.00
33) d12-Perylene	21.30	264	257317	1.00	ppm	-0.02
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	11.27	82	296933	1.59	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery	=	79.50%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	402585	1.44	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery	=	72.00%	
28) SURR6,TERPHENYL-D14	16.25	244	539111	1.94	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery	=	97.00%	

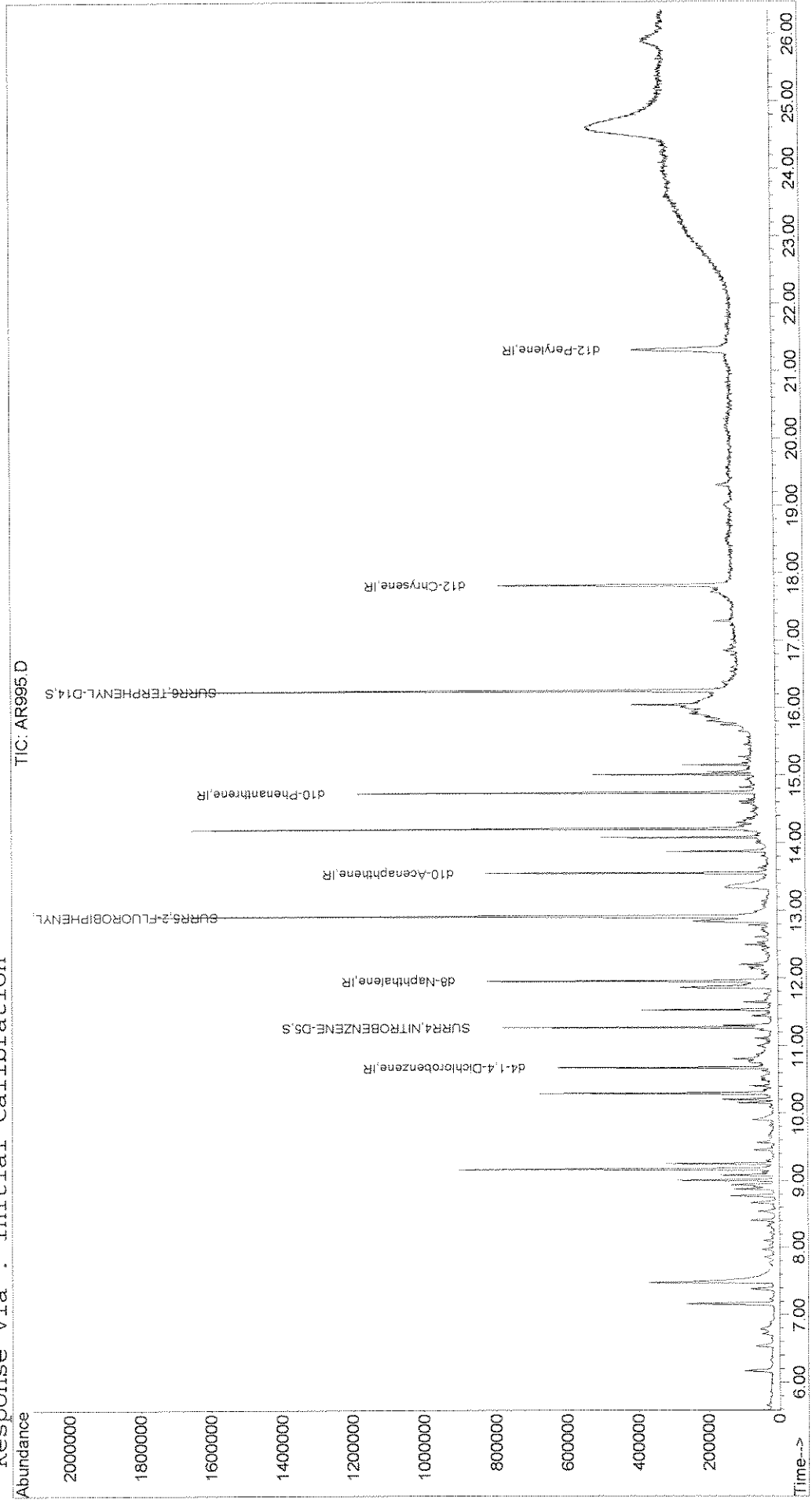
Target Compounds Qvalue


 00563

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR995.D Vial: 14
Acq On : 30 Jun 2008 4:57 pm Operator: J.Wu
Sample : 1113598 1.0 Inst : 5973C
Misc : 06/26/2008 1.0 8270.LL BLK Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 1 8:38 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Fri Jun 27 09:31:03 2008
Response via : Initial Calibration



00564

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 07/30/08

Project Reference:
 Client Sample ID : BLANK SPIKE

Date Sampled : Order #: 1113574 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163181

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/23/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	0.44	UG/L
ACENAPHTHYLENE	0.20	0.44	UG/L
ANTHRACENE	0.20	0.39	UG/L
BENZO (A) ANTHRACENE	0.20	0.42	UG/L
BENZO (A) PYRENE	0.20	0.36	UG/L
BENZO (B) FLUORANTHENE	0.20	0.40	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.46	UG/L
BENZO (K) FLUORANTHENE	0.20	0.42	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	0.52	UG/L
CHRYSENE	0.20	0.41	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.56	UG/L
DIETHYLPHTHALATE	5.0	5.0 U	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4-DIOXANE	2.0	2.1	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.0 U	UG/L
FLUORANTHENE	0.20	0.44	UG/L
FLUORENE	0.20	0.47	UG/L
HEXACHLOROBENZENE	0.20	0.34	UG/L
2-METHYLNAPHTHALENE	0.20	0.31	UG/L
NAPHTHALENE	0.20	0.40	UG/L
NITROBENZENE	0.20	0.38	UG/L
OCTACHLOROSTYRENE	0.20	0.32	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.44	UG/L
PYRENE	0.20	0.44	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	90	%
NITROBENZENE-d5	(45 - 135 %)	73	%
2-FLUOROBIPHENYL	(45 - 135 %)	66	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR990.D Vial: 9
 Acq On : 30 Jun 2008 2:02 pm Operator: J.Wu
 Sample : 1113574 1.0 Inst : 5973C
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA LCS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 14:28:50 2008 Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	102809	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	401380	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	195786	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	408740	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	372783	1.00	ppm	0.00
33) d12-Perylene	21.31	264	303466	1.00	ppm	0.00

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	333559	1.45	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	72.50%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	453022	1.32	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	66.00%
28) SURR6,TERPHENYL-D14	16.25	244	564240	1.79	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	89.50%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.83	88	122683	2.08	ppm	91
3) Pyridine	6.70	79	186038	0.95	ppm	92
6) Nitrobenzene	11.29	77	90890	0.38	ppm	99
7) Naphthalene	11.97	128	164295	0.40	ppm	98
8) 2-Methylnaphthalene	12.59	142	85001	0.31	ppm	98
9) 1-Methylnaphthalene	12.70	142	80090	0.30	ppm	97
12) Acenaphthylene	13.42	152	122495	0.44	ppm	99
13) Dimethyl phthalate	13.28	163	90338	0.42	ppm	99
14) Acenaphthene	13.58	153	81889	0.44	ppm	97
15) Dibenzofuran	13.72	168	117612	0.44	ppm	100
16) Fluorene	14.00	166	107254	0.47	ppm	96
17) Diethylphthalate	13.88	149	155598	0.48	ppm	99
19) Hexachlorobenzene	14.49	284	36391	0.34	ppm	94
20) Phenanthrene	14.76	178	181909	0.44	ppm	98
21) Anthracene	14.80	178	158571	0.39	ppm	97
22) Carbazole	14.91	167	146548	0.50	ppm	98
23) Octachlorostyrene	15.70	380	7863	0.32	ppm	85
24) Di-n-butylphthalate	15.15	149	447604	1.02	ppm	96
25) Fluoranthene	15.89	202	187508	0.44	ppm	98
27) Pyrene	16.15	202	190368	0.44	ppm	98
29) Butylbenzylphthalate	16.85	149	111658	0.59	ppm	89
30) bis(2-Ethylhexyl)phthalate	17.72	149	1291337	4.78	ppm	98
31) Benzo(a)anthracene	17.78	228	172276	0.42	ppm	95
32) Chrysene	17.86	228	170109	0.41	ppm	97
34) Di-n-octylphthalate	18.96	149	180979	0.69	ppm	97
35) Benzo(b)Fluoranthene	20.17	252	172664	0.40	ppm	91

(#) = qualifier out of range (m) = manual integration
 AR990.D LVI0626.M Mon Jun 30 15:12:18 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR990.D Vial: 9
 Acq On : 30 Jun 2008 2:02 pm Operator: J.Wu
 Sample : 1113574 1.0 Inst : 5973C
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA LCS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 14:28:50 2008 Quant Results File: LVI0626.RES

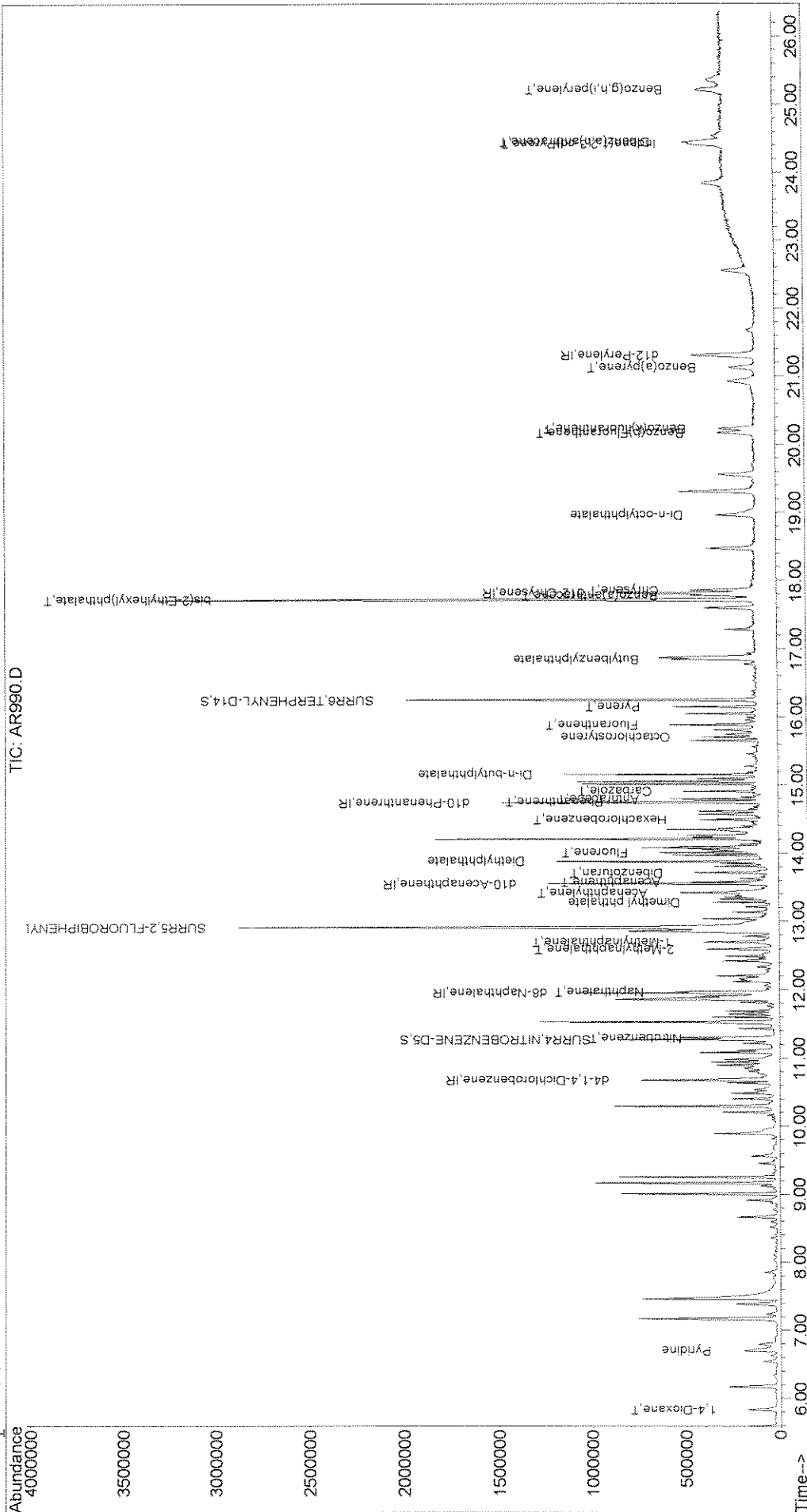
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	172777	0.42	ppm	94
37) Benzo(a)pyrene	21.13	252	131375	0.36	ppm	96
38) Indeno(1,2,3-cd)Pyrene	24.42	276	186183	0.52	ppm	98
39) Dibenz(a,h)anthracene	24.45	278	158832	0.56	ppm	96
40) Benzo(g,h,i)perylene	25.22	276	164987	0.46	ppm	97

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR990.D Vial: 9
 Acq On : 30 Jun 2008 2:02 pm Operator: J.Wu
 Sample : 1113574 1.0 Inst : 5973C
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA LCS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 14:28 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



00568

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 07/30/08

Project Reference:
 Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : Order #: 1113575 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163181

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/23/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	0.46	UG/L
ACENAPHTHYLENE	0.20	0.45	UG/L
ANTHRACENE	0.20	0.40	UG/L
BENZO (A) ANTHRACENE	0.20	0.43	UG/L
BENZO (A) PYRENE	0.20	0.35	UG/L
BENZO (B) FLUORANTHENE	0.20	0.43	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.46	UG/L
BENZO (K) FLUORANTHENE	0.20	0.43	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	0.53	UG/L
CHRYSENE	0.20	0.42	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.56	UG/L
DIETHYLPHTHALATE	5.0	5.0 U	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4-DIOXANE	2.0	2.2	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.0 U	UG/L
FLUORANTHENE	0.20	0.46	UG/L
FLUORENE	0.20	0.51	UG/L
HEXACHLORO BENZENE	0.20	0.35	UG/L
2-METHYLNAPHTHALENE	0.20	0.31	UG/L
NAPHTHALENE	0.20	0.41	UG/L
NITROBENZENE	0.20	0.40	UG/L
OCTACHLOROSTYRENE	0.20	0.42	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.44	UG/L
PYRENE	0.20	0.43	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	91	%
NITROBENZENE-d5	(45 - 135 %)	75	%
2-FLUOROBIPHENYL	(45 - 135 %)	70	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUADATA\5973C\DATA\063008\AR991.D
 Acq On : 30 Jun 2008 2:37 pm
 Sample : 1113575 1.0
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA LCSD
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 15:04:08 2008

Vial: 10
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUADATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) d4-1,4-Dichlorobenzene	10.68	152	97237	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	375304	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	180656	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	378401	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	352657	1.00	ppm	0.00
33) d12-Perylene	21.30	264	277471	1.00	ppm	-0.02

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.26	82	323467	1.50	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	75.00%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	445243	1.39	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	69.50%
28) SURR6,TERPHENYL-D14	16.25	244	539875	1.81	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	90.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.82	88	122079	2.19	ppm	94
3) Pyridine	6.69	79	184150	1.00	ppm	94
6) Nitrobenzene	11.29	77	88888	0.40	ppm	96
7) Naphthalene	11.97	128	156402	0.41	ppm	98
8) 2-Methylnaphthalene	12.59	142	81035	0.31	ppm	89
9) 1-Methylnaphthalene	12.70	142	78386	0.31	ppm	95
12) Acenaphthylene	13.42	152	118009	0.45	ppm	97
13) Dimethyl phthalate	13.28	163	86088	0.43	ppm	99
14) Acenaphthene	13.58	153	79190	0.46	ppm	93
15) Dibenzofuran	13.72	168	105279	0.43	ppm	99
16) Fluorene	14.00	166	109869	0.51	ppm	100
17) Diethylphthalate	13.88	149	140542	0.47	ppm	99
19) Hexachlorobenzene	14.49	284	34681	0.35	ppm	93
20) Phenanthrene	14.76	178	170863	0.44	ppm	97
21) Anthracene	14.79	178	147684	0.40	ppm	99
22) Carbazole	14.91	167	144278	0.53	ppm	98
23) Octachlorostyrene	15.70	380	9576	0.42	ppm	89
24) Di-n-butylphthalate	15.15	149	342718	0.84	ppm	99
25) Fluoranthene	15.88	202	181154	0.46	ppm	99
27) Pyrene	16.15	202	179487	0.43	ppm	100
29) Butylbenzylphthalate	16.85	149	92990	0.52	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.72	149	1229048	4.81	ppm	96
31) Benzo(a)anthracene	17.78	228	165613	0.43	ppm	99
32) Chrysene	17.86	228	165155	0.42	ppm	99
34) Di-n-octylphthalate	18.96	149	181692	0.72	ppm	96
35) Benzo(b)Fluoranthene	20.17	252	167955	0.43	ppm	94

(#) = qualifier out of range (m) = manual integration
 AR991.D LVI0626.M Mon Jun 30 15:13:27 2008

JW ✓
00570

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR991.D Vial: 10
 Acq On : 30 Jun 2008 2:37 pm Operator: J.Wu
 Sample : 1113575 1.0 Inst : 5973C
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA LCSD Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 15:04:08 2008 Quant Results File: LVI0626.RES

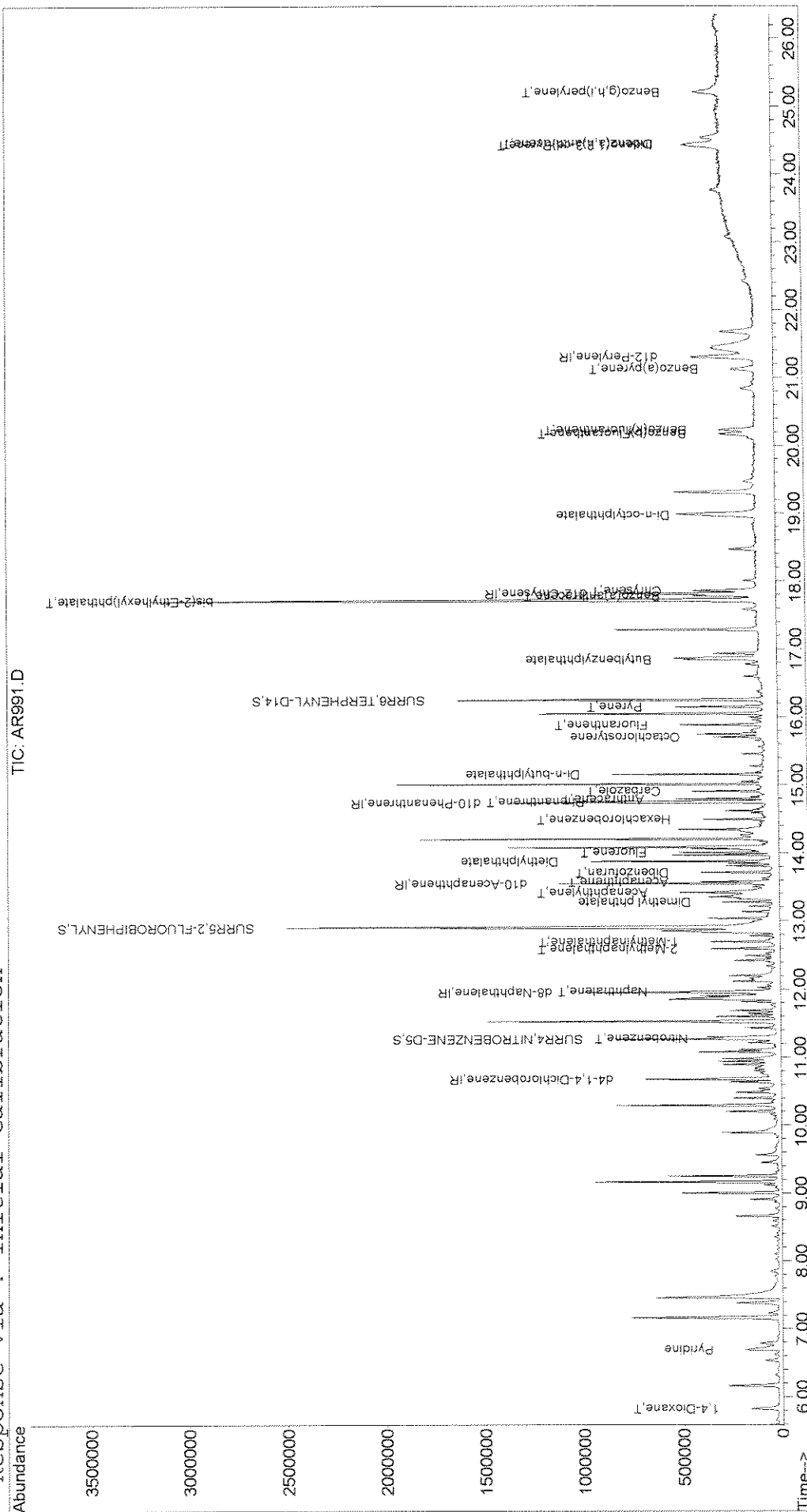
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	164224	0.43	ppm	96
37) Benzo(a)pyrene	21.13	252	118268	0.35	ppm	97
38) Indeno(1,2,3-cd)Pyrene	24.42	276	174310	0.53	ppm	71
39) Dibenz(a,h)anthracene	24.45	278	144183	0.56	ppm	94
40) Benzo(g,h,i)perylene	25.21	276	151509	0.46	ppm	95

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR991.D Vial: 10
 Acq On : 30 Jun 2008 2:37 pm Operator: J.Wu
 Sample : 1113575 1.0 Inst : 5973C
 Misc : 06/23/2008 1.0 ENSR 8270.NEVA LCSD Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 15:04 2008 Quant Results File: LVI0626.RES

Method : J:\ACQUDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



00572

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 07/30/08

Project Reference:
 Client Sample ID : BLANK SPIKE

Date Sampled : Order #: 1113599 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	0.47	UG/L
ACENAPHTHYLENE	0.20	0.47	UG/L
ANTHRACENE	0.20	0.40	UG/L
BENZO (A) ANTHRACENE	0.20	0.43	UG/L
BENZO (A) PYRENE	0.20	0.36	UG/L
BENZO (B) FLUORANTHENE	0.20	0.41	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.44	UG/L
BENZO (K) FLUORANTHENE	0.20	0.41	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	0.51	UG/L
CHRYSENE	0.20	0.40	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.54	UG/L
DIETHYLPHTHALATE	5.0	5.0 U	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4-DIOXANE	2.0	2.0	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.0	UG/L
FLUORANTHENE	0.20	0.45	UG/L
FLUORENE	0.20	0.53	UG/L
HEXACHLORO BENZENE	0.20	0.38	UG/L
2-METHYLNAPHTHALENE	0.20	0.33	UG/L
NAPHTHALENE	0.20	0.40	UG/L
NITROBENZENE	0.20	0.38	UG/L
OCTACHLOROSTYRENE	0.20	0.43	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.43	UG/L
PYRENE	0.20	0.47	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	97	%
NITROBENZENE-d5	(45 - 135 %)	78	%
2-FLUOROBIPHENYL	(45 - 135 %)	71	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR996.D
 Acq On : 30 Jun 2008 5:32 pm
 Sample : 1113599 1.0
 Misc : 06/26/2008 1.0 8270.LL LCS
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 17:59:05 2008

Vial: 15
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.68	152	96125	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	339892	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	161695	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	378235	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	334131	1.00	ppm	0.00
33) d12-Perylene	21.31	264	268817	1.00	ppm	-0.01

System Monitoring Compounds

5) SURR4,NITROBENZENE-D5	11.27	82	304186	1.56	ppm	0.00
Spiked Amount	2.000	Range	22 - 124	Recovery	=	78.00%
11) SURR5,2-FLUOROBIPHENYL	12.91	172	407291	1.41	ppm	0.00
Spiked Amount	2.000	Range	27 - 114	Recovery	=	70.50%
28) SURR6,TERPHENYL-D14	16.25	244	545503	1.93	ppm	0.00
Spiked Amount	2.000	Range	23 - 139	Recovery	=	96.50%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.83	88	108961	1.98	ppm	92
3) Pyridine	6.79	79	16852	0.09	ppm	79
6) Nitrobenzene	11.29	77	76442	0.38	ppm	99
7) Naphthalene	11.97	128	141469	0.40	ppm	99
8) 2-Methylnaphthalene	12.59	142	77996	0.33	ppm	96
9) 1-Methylnaphthalene	12.70	142	76659	0.34	ppm	99
12) Acenaphthylene	13.42	152	111564	0.47	ppm	95
13) Dimethyl phthalate	13.28	163	85487	0.46	ppm	97
14) Acenaphthene	13.58	153	74481	0.47	ppm	98
15) Dibenzofuran	13.72	168	104942	0.46	ppm	99
16) Fluorene	14.00	166	104931	0.53	ppm	93
17) Diethylphthalate	13.88	149	120053	0.45	ppm	95
19) Hexachlorobenzene	14.49	284	37707	0.38	ppm	95
20) Phenanthrene	14.76	178	166747	0.43	ppm	98
21) Anthracene	14.80	178	147653	0.40	ppm	98
22) Carbazole	14.91	167	141925	0.52	ppm	98
23) Octachlorostyrene	15.70	380	9927	0.43	ppm	83
24) Di-n-butylphthalate	15.15	149	272994	0.67	ppm	99
25) Fluoranthene	15.88	202	176098	0.45	ppm	99
27) Pyrene	16.15	202	182162	0.47	ppm	100
29) Butylbenzylphthalate	16.85	149	85375	0.51	ppm	87
30) bis(2-Ethylhexyl)phthalate	17.72	149	1207220	4.99	ppm	96
31) Benzo(a)anthracene	17.78	228	157678	0.43	ppm	98
32) Chrysene	17.86	228	149336	0.40	ppm	99
34) Di-n-octylphthalate	18.96	149	164167	0.70	ppm	99
35) Benzo(b)Fluoranthene	20.17	252	157630	0.41	ppm	94

(#) = qualifier out of range (m) = manual integration
 AR996.D LVI0626.M Tue Jul 01 08:44:38 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR996.D Vial: 15
 Acq On : 30 Jun 2008 5:32 pm Operator: J.Wu
 Sample : 1113599 1.0 Inst : 5973C
 Misc : 06/26/2008 1.0 8270.LL LCS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 17:59:05 2008 Quant Results File: LVI0626.RES

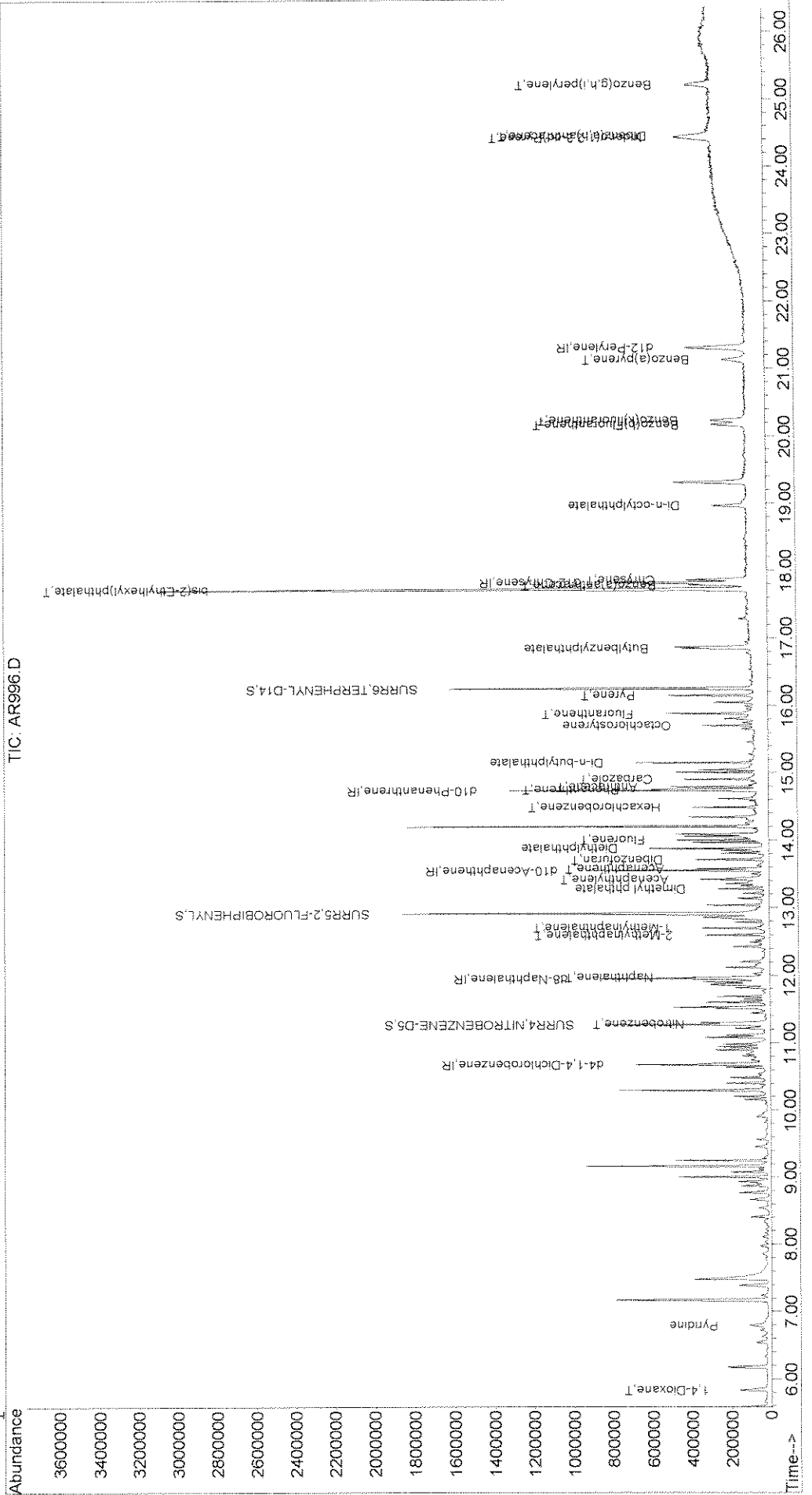
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	151445	0.41	ppm	98
37) Benzo(a)pyrene	21.13	252	115735	0.36	ppm	91
38) Indeno(1,2,3-cd)Pyrene	24.42	276	158123	0.51	ppm	97
39) Dibenz(a,h)anthracene	24.45	278	131397	0.54	ppm	97
40) Benzo(g,h,i)perylene	25.21	276	142181	0.44	ppm	98

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR996.D Vial: 15
 Acq On : 30 Jun 2008 5:32 pm Operator: J.Wu
 Sample : 1113599 1.0 Inst : 5973C
 Misc : 06/26/2008 1.0 8270.LL LCS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 17:59 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



00576

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C.NEVA
 Reported: 07/30/08

Project Reference:
 Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : Order #: 1113600 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163187

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/26/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	0.44	UG/L
ACENAPHTHYLENE	0.20	0.46	UG/L
ANTHRACENE	0.20	0.37	UG/L
BENZO (A) ANTHRACENE	0.20	0.41	UG/L
BENZO (A) PYRENE	0.20	0.34	UG/L
BENZO (B) FLUORANTHENE	0.20	0.38	UG/L
BENZO (G, H, I) PERYLENE	0.20	0.43	UG/L
BENZO (K) FLUORANTHENE	0.20	0.38	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	0.49	UG/L
CHRYSENE	0.20	0.39	UG/L
DIBENZO (A, H) ANTHRACENE	0.20	0.52	UG/L
DIETHYLPHthalate	5.0	5.0 U	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1, 4-DIOXANE	2.0	2.0	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	5.0 U	UG/L
FLUORANTHENE	0.20	0.41	UG/L
FLUORENE	0.20	0.52	UG/L
HEXACHLORO BENZENE	0.20	0.33	UG/L
2-METHYLNAPHTHALENE	0.20	0.30	UG/L
NAPHTHALENE	0.20	0.38	UG/L
NITROBENZENE	0.20	0.35	UG/L
OCTACHLOROSTYRENE	0.20	0.37	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.40	UG/L
PYRENE	0.20	0.43	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(45 - 135 %)	94	%
NITROBENZENE-d5	(45 - 135 %)	72	%
2-FLUOROBIPHENYL	(45 - 135 %)	67	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR997.D
 Acq On : 30 Jun 2008 6:07 pm
 Sample : 1113600 1.0
 Misc : 06/26/2008 1.0 8270.LL LCSD
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 18:33:53 2008

Vial: 16
 Operator: J.Wu
 Inst : 5973C
 Multiplr: 1.00

Quant Results File: LVI0626.RES

Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.67	152	97193	1.00	ppm	0.00
4) d8-Naphthalene	11.95	136	352531	1.00	ppm	0.00
10) d10-Acenaphthene	13.55	164	165186	1.00	ppm	0.00
18) d10-Phenanthrene	14.74	188	403785	1.00	ppm	0.00
26) d12-Chrysene	17.81	240	347066	1.00	ppm	0.00
33) d12-Perylene	21.31	264	280967	1.00	ppm	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) SURR4,NITROBENZENE-D5	11.27	82	290784	1.44	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery	=	72.00%	
11) SURR5,2-FLUOROBIPHENYL	12.91	172	389530	1.34	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery	=	67.00%	
28) SURR6,TERPHENYL-D14	16.25	244	548149	1.87	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery	=	93.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	5.84	88	111746	2.00	ppm	95
3) Pyridine	6.83	79	7597	0.04	ppm	64
6) Nitrobenzene	11.29	77	73225	0.35	ppm	93
7) Naphthalene	11.97	128	136468	0.38	ppm	99
8) 2-Methylnaphthalene	12.59	142	73164	0.30	ppm	90
9) 1-Methylnaphthalene	12.70	142	72664	0.31	ppm	96
12) Acenaphthylene	13.42	152	109941	0.46	ppm	96
13) Dimethyl phthalate	13.28	163	80157	0.44	ppm	97
14) Acenaphthene	13.58	153	67899	0.44	ppm	96
15) Dibenzofuran	13.72	168	94717	0.43	ppm	98
16) Fluorene	14.00	166	105390	0.52	ppm	95
17) Diethylphthalate	13.88	149	114738	0.42	ppm	99
19) Hexachlorobenzene	14.49	284	34978	0.33	ppm	93
20) Phenanthrene	14.76	178	164363	0.40	ppm	98
21) Anthracene	14.80	178	148178	0.37	ppm	95
22) Carbazole	14.90	167	138684	0.47	ppm	97
23) Octachlorostyrene	15.70	380	9024	0.37	ppm	88
24) Di-n-butylphthalate	15.15	149	275757	0.64	ppm	99
25) Fluoranthene	15.88	202	171690	0.41	ppm	98
27) Pyrene	16.15	202	173464	0.43	ppm	97
29) Butylbenzylphthalate	16.85	149	83403	0.48	ppm	97
30) bis(2-Ethylhexyl)phthalate	17.72	149	1191101	4.74	ppm	98
31) Benzo(a)anthracene	17.78	228	154770	0.41	ppm	99
32) Chrysene	17.86	228	149763	0.39	ppm	97
34) Di-n-octylphthalate	18.96	149	156689	0.67	ppm	97
35) Benzo(b)Fluoranthene	20.17	252	151110	0.38	ppm	98

(#) = qualifier out of range (m) = manual integration
 AR997.D LVI0626.M Tue Jul 01 08:54:45 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973C\DATA\063008\AR997.D Vial: 16
 Acq On : 30 Jun 2008 6:07 pm Operator: J.Wu
 Sample : 1113600 1.0 Inst : 5973C
 Misc : 06/26/2008 1.0 8270.LL LCSD Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 18:33:53 2008 Quant Results File: LVI0626.RES

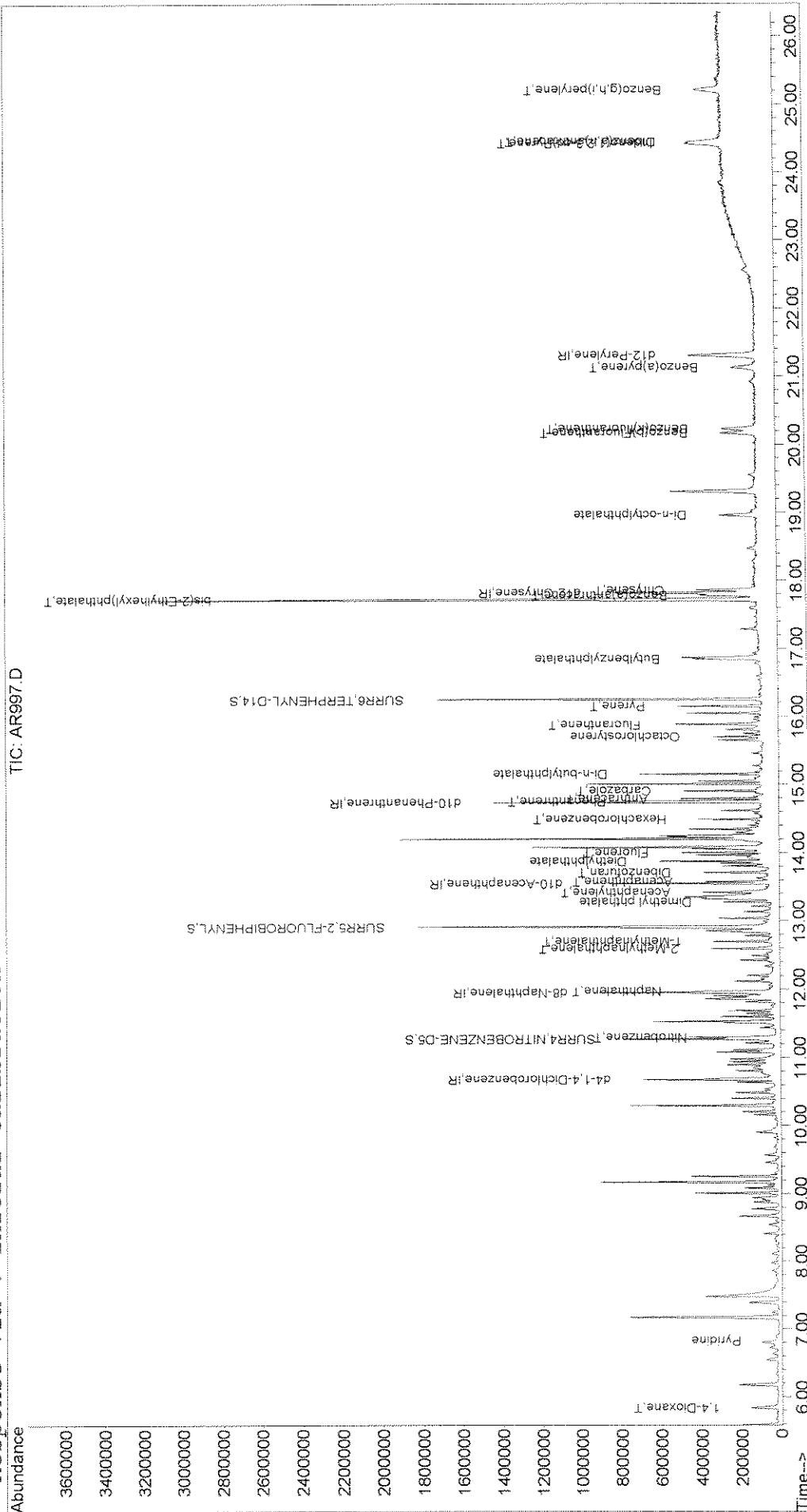
Quant Method : J:\ACQUDATA\5...\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration
 DataAcq Meth : LVI0626

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Benzo(k)fluoranthene	20.23	252	146596	0.38	ppm	99
37) Benzo(a)pyrene	21.13	252	114089	0.34	ppm	97
38) Indeno(1,2,3-cd)Pyrene	24.42	276	158497	0.49	ppm	97
39) Dibenz(a,h)anthracene	24.45	278	131206	0.52	ppm	94
40) Benzo(g,h,i)perylene	25.21	276	142419	0.43	ppm	94

Quantitation Report (QT Reviewed)

Data File : J:\ACQDATA\5973C\DATA\063008\AR997.D Vial: 16
 Acq On : 30 Jun 2008 6:07 pm Operator: J.Wu
 Sample : 1113600 1.0 Inst : 5973C
 Misc : 06/26/2008 1.0 8270.LL LCSD Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 30 18:33 2008 Quant Results File: LVI0626.RES

Method : J:\ACQDATA\5973C\METHODS\LVI0626.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Fri Jun 27 09:31:03 2008
 Response via : Initial Calibration



00580

10/20/08

Extraction Tech: 6/23/2008
Concentration Tech: LED
40 Day HT: 8/2/2008

Spiked By: [Signature]
Spk Witness: LED

Prep Method:
 3540C
 3510C
 3580A

Analysis (Test) Requested:
 8270/925 NG
 8270/925
 8270/925

Appearance (see key):
 C-cc
 C-cc
 B-cc
 C-cc

Initial Wt. (g) or Volume (ml):
 1000
 1000
 1000
 1000
 1000
 1000
 1000

Sample ID:
 BLK 1
 LCS 1
 LCS 1
 1109708
 1110532
 1110981
 MDL 1
 MDL 2
 MDL 3
 MDL 4
 MDL 5
 MDL 6
 MDL 7
 MDL V

Client / Sub. #:
 1113573
 1113574
 1113575
R44538

pH	Check		Conc.		Final Volume (ml)	Date Complete	Comments / Emissions
	REC'D	BN > 11	(water only)	Date			
1	2	1	2	1	2		
4	-	-	-	6/24	1ml	6/24	PCR APP > 1/108
6	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-

Batch ID: E062308A
Prep ID:

COLUMBIA ANALYTICAL SERVICES - ROCHESTER, NY
 Color: C = Colorless; Y = Yellow; B = Brown; BL = Black; G = Grey
 Clarity: CLR = Clear; CDY = Cloudy; OP = Opaque
 Soils: F = Fine/Sand; M = Medium/Soil; C = Coarse/Rocks

Spikes:
 AE/BN Surrogate
 BN Surrogate
 LL PAH Spike
 8270 LCS MIX 1
 Custom List Spike
 Benzidine Spike
 1702 spike
 4-benzidine
 pyridine
 Other:

Conc.: ppm
 2 ppm
 2 ppm
 2 ppm
 2 ppm
 2 ppm
 2 ppm
 2 ppm
 2 ppm
 2 ppm
 2 ppm
 2 ppm

Lot#:
 0-119-205-C
 0-559-146-G
 0-119-205-E
 0-559-201-K
 0-559-200-L

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
 MeCl2
 Acetone

Hexane
 Ether
 Sodium Sulfate

Sulfuric Acid
 Sodium Hydroxide
 Other:

Lot#: 0765-38-0
 Lot#: 0-559-146-G
 Lot#: 0-119-205-E
 Lot#: 0-559-201-K
 Lot#: 0-559-200-L

Extraction Te
Extraction Date: 6/26/2008
Concentration Tech: LED
40 Day HT: 8/5/2008

Spiked By: [Signature]
Spk Witness: LED
Prep Method:
 3540C
 3510C
 3580A

Sample ID
 1113598
 1113599
 1113600
 R44538
 R44650
 R44630

Initial Wt. (g) or Volume (ml)
 10.00
 10.10
 10.10
 10.50
 10.40
 10.60
 10.50
 10.60
 10.60
 10.60
 10.60

Appearance (see key)
 C-cc
 7-cc
 C-cc
 Y-cc
 C-cc
 C-cc
 C-cc
 C-cc
 C-cc
 C-cc

Analysis (Test) Requested
 8270LL
 8270LL
 8270LL
 8270C.NEVA
 8270C.NEVA
 8270C.NEVA
 8270C.NEVA
 8270C.NEVA
 8270C.NEVA
 8270C.NEVA
 8270C.NEVA
 8270C.LLDI
 8270C.LLDI

Conc. Date
 6/27
 6/27
 6/27
 6/27
 6/27
 6/27
 6/27
 6/27
 6/27
 6/27
 6/27
 6/27
 6/27
 6/27

Final Volume (ml)
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Date Complete
 6/27
 6/27
 6/27
 6/27
 6/27
 6/27
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 6/27
 6/27
 6/27
 6/27

Comments / Emulsions
 pag. 4-10 7/1/08
 STP
 STP
 STP

Batch ID: E062608B
Prep ID:

Color: C = Colorless; Y = Yellow; B = Brown; BL = Black; G = Grey
Clarity: CLR = Clear; CDY = Cloudy; OP = Opaque
Soils: F = Fine/Sand; M = Medium/Soil; C = Coarse/Rocks

Spikes:
 AE/BN Surrogate Amt. ___ ml Conc. ___ ppm Lot# ___
 BN Surrogate Amt. ___ ml Conc. ___ ppm Lot# 0-139-205-C
 LL PAH Spike Amt. ___ ml Conc. 5.5 ppm Lot# 0-539-116-G
 8270 LCS MIX 1 Amt. ___ ml Conc. ___ ppm Lot# ___
 Custom List Spike Amt. ___ ml Conc. ___ ppm Lot# ___
 Benzidine Spike Amt. ___ ml Conc. ___ ppm Lot# ___
 0.5 mg/L K₂Cr₂O₇ Amt. ___ ml Conc. 5 ppm Lot# 0-539-20-K
 Other: Amt. ___ ml Conc. ___ ppm Lot# ___

Solvents:
 50:50 Ace:MeCl2 Lot # ___
 MeCl2 Lot # 0-2-4-77-7
 Acetone Lot # ___
 Hexane Lot # ___
 Ether Lot # ___
 Sodium Sulfate Lot# 0-5-86-7
 Sulfuric Acid Lot# 0-3-38-1
 Sodium Hydroxide Lot# 0-3-4-36-1
 Other: Lot# ___

Method Summary:
 1000mls sample extracted with 60mls MeCl2 3x at a Ph<2 for 2 min. repeat at pH >11.

Clean-Ups: None

(All samples spiked with Surrogate; LCS/LCSD, MS/MSD had spike added.)

10 ml of 100ppm STD (0-559-2046) to 1.0ml.

5/26/08	Tune check	20 ng OFTPP	Tune cm	AR 914	YT	
	Calibration check	2.0/4.0 ppm	LV10624.m	AR 915	Final	
	Tune cm	20 ng OFTPP	Tune cm (0-559-2046)	AR 926	YT 4:24	
1	BK			927	Ym	
2	Initial calibrat	0.1/0.2 ppm	LV10626.m	AR 928	YS	
3		0.2/0.4		929	YS	
4		0.5/1.0		930	YS	
5		1.0/2.0		931	YS	AR 922
6		2.0/4.0		932	YS	83643
7		3.0/6.0		933	YS	327832
8		4.0/8.0		934	YS	150391
9		5.0/10.0		935	YS	318860
10		10.0/20.0		AR 936	YS	299259
11	ICV 1	1.0 ppm		937	YC 8:5	227592
12	ICV 2	2.0 ppm		AR 938	YC 11:20	
13	Tune check	20 ng OFTPP	Tune cm	AR 939	YT 11:53	
14	Calibration check	2.0/4.0 ppm	LV10626.m	AR 940	YC	AR 940
15	CAS (3550B)	MDL 2	8270.LL 6/11/08 soil	AR 941	Y	85042
16	(R-4407) (2/20/08)	MDL BK	8270.LL 6/23/08 water	AR 942	Ym	330411
17		MDL 1	(2 ppm pyridine)	943	Y	131431
18		2		944	Y	332218
19		3		945	Y	314728
20		4		946	Y	238408
21		5		947	Y	
22		6		948	Y	
23		7		949	Y	
24		✓		AR 950	Y	
25	CAS (3550B)	MDL 1	8270.LL 6/23/08 soil	AR 951	Y	
26		2	(2 ppm pyridine)	952		
27		3		953		
28		4		954	Y	
29		5		955	Y	
30		6		956	Y	
31		7		957	Y	
32		✓		958	Y	
33		MDL BK 2		AR 959	Y 11:23	

TW.

10 µl of 100 ppm 15TD (0.159-2085) to 1.0 ml 5973-C

Date	Time check	20 ng DFTPP	Time	AR	YT
6/30/08				AR 981	YT 837
1	Calibration check	2.0/4.0 ppm	LV10626.m	AR 982	YC
2	CAS (3500, 0.2/0.8 ppm)	MDL 3	8270.LL 6/11/08 Soil	AR 983	Y
3		4		984	Y
4		5		985	Y
5		6		986	Y
6		7		987	Y
7		✓		AR 988	Y
8		MDL BIK		AR 989	YM
R-44538 9	JW 6/18/08 Hwy 10	1113574	LES 8270.NEVA 6/23/08 W	AR 990	YQ *2.36, *24.34↑
10		1113575	LES	991	YQ *2.36, *24.34↑
11		1109708	0.94	992	Y
12		1110532	0.96	993	Y
13		1110981	0.94	AR 994	Y
R-44538 14		1113598	BIK 8270.NEVA 6/26/08 Water	AR 995	YM
15		1113599	LES (R-44650 8270.NEVA) (R-44630 8270.LL DL) → OK	996	YQ *2.36, *24.34↑
16		1113600	LES	997	YQ *2.36, *24.34↑
17		1111264	0.95	998	Y IS ↓, Ppt sta.
18		1111265	0.96	AR 999	Y
19		1111266	0.94	AS 001	Y IS ↓, Ppt sta.
20		1111267	0.95	AS 002	Y 8:25
21	CAS test (SOX)	MDL BIK 2	8270.LL 6/20/08 Soil	AS 003	OK
	AR 982	22	3	004	OK
10.68	102949	23	4	AS 005	OK
11.95	397895				
12.55	196935				
14.74	405436				
17.82	387612				
21.51	307668				

JW

5973-C

1 out of 100 ppm STD (0.119-2085) to 1.0 ml

7/1/08	Tune check	2.0 ng DFPP	Tune m	(0.119-2085)	AS006	Failed Today
	Tune check	2.0 ng DFPP	Tune m		AS007	YT 9:57
	Calibrati check	2.0/4.0 ppm	LV10626.m		AS008	Failed
	Calibrati check				AS009	↓
	Tune check	2.0 ng DFPP	Tune m	(0.119-2085)	AS010	YT 12:22
	1 Calibrati check	2.0/4.0 ppm	LV10626.m		AS011	YC
R-4468	2	1111264	0.95 (re)	8270.NEVA 6/16/8 water	AS012	Y ISV
	3	1111266	0.94 (re)		AS013	Y ISV
	4	1111763	0.94		014	Y
	5	1111764	0.94		015	Y ISV Rpt str.
	6	1111765	0.94		AS016	Y
R-4465	7	1112065	0.94	8270.NEVA 6/16/8 water	AS017	Y
	8	1112066	1.0		018	Y
	9	1112067	0.94		AS019	Y
R-4463	10	1111673	0.95	8270.LDZ 6/16/8 w.	AS020	Y
	11	1111674	0.94		AS021	Y
R-4476	12	1113922	BLK	8270.LDZ 6/30/08 water	AS022	Y m
	13	1113923	LS (OK)	(R-4465 8270.NEVA)	023	YR #2,36 #24,29,34↑
	14	1113924	LSD (OK)		024	YR #2,36 #24,29,34↑
	15	1113406	0.98		025	Y
	16	1113407	0.94		AS026	Y
R-4458	17	1111764	0.94	8270.NEVA 6/16/08 w. (re)	AS027	Y ISV
R-4465	18	1112486	0.94x10	8270.NEVA 6/30/08 water	AS028	No. Rpt YS
	19	1112488	0.94		029	Y ISV Rpt str.
	20	1112810	0.94		AS030	Y 11:59
	21	OT-REV			AS032	-

AS011

- 10.68 102393
- 11.95 382043
- 13.85 187316
- 14.74 377750

JW

PESTICIDES
QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
WATER

Spiked Order No. : 1113456

Dup Spiked Order No. : 1113457

Client ID:

Test: 8081A.NEVA

Analytical Units: UG/L

Run Number : 163158

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		BLANK SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
ALDRIN	0.10	0	0.063	63	0.081	81	25	30	50 - 130
ALPHA-BHC	0.10	0	0.075	75	0.097	97	26	30	50 - 130
BETA-BHC	0.10	0	0.081	81	0.091	91	12	30	50 - 130
GAMMA-BHC	0.10	0	0.079	79	0.098	98	21	30	50 - 130
DELTA-BHC	0.10	0	0.073	73	0.094	94	25	30	50 - 130
ALPHA-CHLORDANE	0.10	0	0.079	79	0.095	95	18	30	50 - 130
GAMMA-CHLORDANE	0.10	0	0.077	77	0.100	100	26	30	50 - 130
4,4'-DDE	0.10	0	0.080	80	0.093	93	15	30	50 - 130
4,4'-DDT	0.10	0	0.085	85	0.110	110	26	30	50 - 130
DIELDRIN	0.10	0	0.094	94	0.110	110	16	30	50 - 130
ALPHA-ENDOSULFAN	0.10	0	0.088	88	0.100	100	13	30	50 - 130
BETA-ENDOSULFAN	0.10	0	0.086	86	0.110	110	24	30	50 - 130
ENDOSULFAN SULFATE	0.10	0	0.081	81	0.100	100	21	30	50 - 130
ENDRIN	0.10	0	0.090	90	0.110	110	20	30	50 - 130
ENDRIN ALDEHYDE	0.10	0	0.074	74	0.100	100	30	30	50 - 130
ENDRIN KETONE	0.10	0	0.081	81	0.100	100	21	30	50 - 130
HEPTACHLOR	0.10	0	0.078	78	0.095	95	20	30	50 - 130
HEPTACHLOR EPOXIDE	0.10	0	0.081	81	0.100	100	21	30	50 - 130
HEXACHLOROBENZENE	0.25	0	0.180	72	0.210	84	15	30	50 - 130
METHOXYCHLOR	1.0	0	0.470	47	0.600	60	24	30	50 - 130
4,4'-TDE (DDD)	0.10	0	0.082	82	0.100	100	20	30	50 - 130

00589

Method Blank Summary

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844538 **SAS No.:** _____ **SDG No.:** PB061608B
Lab Sample ID 1111769 1.0 **Lab File ID:** EX868.D
Matrix: WATER **Level:** (low/med)
Date extracted: 06/19/08 **Extraction:** (Sepf/Cont/Sonc) Sepf
Date analyzed: (1) 6/25/2008 **Date analyzed:** (2) 6/25/2008
Time analyzed: (1) 4:17 **Time analyzed:** (2) 4:17
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:

<i>EPA Sample No.</i>	<i>Lab Sample No.</i>	<i>Date Analyzed 1</i>	<i>Date Analyzed 2</i>
PBLK1MS	1111770 1.0	6/24/2008	6/24/2008
PBLK1MSD	1111771 1.0	6/24/2008	6/24/2008
PB061608B	1109708 1.0	6/25/2008	6/25/2008
PC-40B	1110532 1.0	6/25/2008	6/25/2008
PC-40B	1110532 20.0	6/26/2008	6/26/2008

Method Blank Summary

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844538 **SAS No.:** _____ **SDG No.:** PB061608B
Lab Sample ID 1112528 1. **Lab File ID:** EX884.D
Matrix: WATER **Level:** *(low/med)*
Date extracted: 06/25/08 **Extraction:** *(Sepf/Cont/Sonc)* Sepf
Date analyzed: (1) 6/26/2008 **Date analyzed:** (2) 6/26/2008
Time analyzed: (1) 18:40 **Time analyzed:** (2) 18:40
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:

<i>EPA Sample No.</i>	<i>Lab Sample No.</i>	<i>Date Analyzed 1</i>	<i>Date Analyzed 2</i>
MC-65B	1111265 1.0	6/26/2008	6/26/2008
MC-66B	1111266 1.0	6/26/2008	6/26/2008
PC-37B	1111267 1.	6/26/2008	6/26/2008
PC-72B	1111763 1.	6/26/2008	6/26/2008
M-94BX	1111764 1.	6/26/2008	6/26/2008
MC-62B	1111765 1.	6/26/2008	6/26/2008
PBLK2MS	1112529 1.	6/26/2008	6/26/2008
PBLK2MSD	1112530 1.	6/26/2008	6/26/2008
H-48B	1110981 1.	6/27/2008	6/27/2008
MC-66BD	1111264 1.	6/27/2008	6/27/2008
MC-62B DL	1111765 50.0	6/30/2008	6/30/2008

Method Blank Summary

Lab Name: Columbia Analytical *Contract:* ENSR
Lab Code: 10145 *Case.No.:* R2844538 *SAS No.:* _____ *SDG* PB061608B
Lab Sample 1113455 1.0 *Lab File ID:* EX912.D
Matrix: WATER *Level: (low/med)*
Date extracted: 06/27/08 *Extraction: (Sepf/Cont/Sonc)* Sepf
Date analyzed: (1) 6/30/2008 *Date analyzed:* (2) 6/30/2008
Time analyzed: (1) 12:29 *Time analyzed:* (2) 12:29
Instrument ID: (1) 6890D *Instrument ID:* (2) 6890D
GC Column(1) (1) STx-CLP *GC* (2) STx-CLPII

This Method Blank Applies to the Following Sample, MS, and MSD:

<i>EPA Sample No.</i>	<i>Lab Sample No.</i>	<i>Date Analyzed 1</i>	<i>Date Analyzed 2</i>
PBLK3MS	1113456 1.0	6/30/2008	6/30/2008
PBLK3MSD	1113457 1.0	6/30/2008	6/30/2008
MC-65B	1111265 1.0	6/30/2008	6/30/2008
MC-66B	1111266 1.0	6/30/2008	6/30/2008
MC-65B DL	1111265 2.0	6/30/2008	6/30/2008

DETECTION LIMIT STUDY

METHOD	8081
MATRIX	WATER
SAMPLE PREP METHOD	3510
INSTRUMENT ID	6890-D
DETECTOR	ECD
COLUMN	STX-GLP

MDL IDL

DATE 9/25/2007

ANALYST Meghan Pedro

Compound/Analyte	Spike Conc. (ug/L)		Trial #		Trial #		Trial #		Trial #		Trial #		Mean (ug/L)	Std. Dev.	CALC. MDL (ug/L)	MRL** (ug/L)
	1	2	3	4	5	6	7	8	9	10	11	12				
1 4,4'-DDD	0.02	0.0198	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	0.0193	0.0214	0.0195	0.0186	0.0195	0.0206	0.0010	0.0030	0.10				
3 4,4'-DDT	0.02	0.0201	0.0169	0.0171	0.0204	0.0212	0.0177	0.0179	0.0189	0.0010	0.0052	0.10				
4 Aldrin	0.02	0.0146	0.0145	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	0.0160	0.0160	0.0151	0.0159	0.0159	0.0005	0.0014	0.05				
6 Alpha-Endosulfan	0.02	0.0188	0.0186	0.0185	0.0193	0.0194	0.0181	0.0196	0.0188	0.0005	0.0014	0.05				
7 Alpha-Chlordane	0.02	0.0201	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	0.0229	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	0.0207	0.0204	0.0191	0.0208	0.0203	0.0007	0.0022	0.10				
10 Chlordane	0.25	0.2467	0.2275	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	0.0163	0.0175	0.0170	0.0157	0.0173	0.0166	0.0006	0.0018	0.05				
12 Dieldrin	0.02	0.0201	0.0189	0.0201	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	0.0192	0.0202	0.0200	0.0184	0.0200	0.0196	0.0007	0.0022	0.10				
14 Endrin	0.02	0.0191	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	0.0066	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	0.0197	0.0227	0.0241	0.0193	0.0208	0.0205	0.0020	0.0061	0.10				
17 Famphur	1.0	0.7150	0.7546	0.7683	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	0.0169	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	0.0187	0.0192	0.0193	0.0178	0.0191	0.0188	0.0005	0.0014	0.05				
20 Heptachlor	0.02	0.0177	0.0173	0.0175	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	0.0193	0.0195	0.0184	0.0197	0.0193	0.0004	0.0012	0.05				
22 Hexachlorobenzene	0.050	0.0539	0.0532	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	4.0549	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	0.1009	0.1010	0.0954	0.1034	0.0980	0.0024	0.0071	0.50				
1 Toxaphene	1.0	1.0272	1.0421	1.0031	0.8421	0.8611	0.8387	0.7823	0.9457	0.1338	0.4014	1.0				

DETECTION LIMIT STUDY

METHOD	3081
MATRIX	WATER
SAMPLE PREP. METHOD	3510
INSTRUMENT ID.	6890-D
DETECTOR	ECD
COLUMN	STX-CLPII

MDL IDL

DATE 9/25/2007

ANALYST Meghann Pectro

Compound/Analyte	Trial #								Mean (ug/L)	Std. Dev.	CALC. MDL (ug/L)	MRL** (ug/L)
	1	2	3	4	5	6	7	8				
1 4,4'-DDD	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	0.0213	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	0.0230	0.0197	0.0207	0.0223	0.0331	0.0244	0.0228	0.0256	0.0237	0.0044	0.0133	0.10
4 Aldrin	0.0172	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	0.0178	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	0.0213	0.0210	0.0211	0.0203	0.0221	0.0210	0.0206	0.0221	0.0211	0.0006	0.0017	0.05
7 Alpha-Chlordane	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	0.0211	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	0.0237	0.0264	0.0260	0.0228	0.0296	0.0298	0.0238	0.0247	0.0260	0.0028	0.0084	0.10
10 Chlordane	0.2491	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	0.0138	0.0133	0.0139	0.0133	0.0155	0.0149	0.0134	0.0145	0.0140	0.0009	0.0026	0.05
12 Dieldrin	0.0242	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	0.0204	0.0205	0.0203	0.0207	0.0209	0.0205	0.0201	0.0216	0.0205	0.0003	0.0008	0.10
14 Endrin	0.0206	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	0.0251	0.0130	0.0130	0.0269	0.0695	0.0393	0.0241	0.0279	0.0300	0.0195	0.0584	0.10
16 Endrin Ketone	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 Fenphur	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	0.0180	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	0.0222	0.0218	0.0238	0.0231	0.0239	0.0223	0.0222	0.0222	0.0227	0.0008	0.0025	0.05
20 Heptachlor	0.0211	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	0.0242	0.0235	0.0233	0.0240	0.0252	0.0243	0.0238	0.0249	0.0240	0.0006	0.0018	0.05
22 Hexachlorobenzene	0.0493	0.0483	0.0503	0.0492	0.0482	0.0504	0.0434	0.0434	0.0464	0.0024	0.0072	0.05
23 Kepone	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	0.1058	0.0999	0.1037	0.1022	0.1070	0.1060	0.1030	0.1109	0.1040	0.0025	0.0075	0.50
1 Toxaphene	1.1593	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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PB061608B

Date Sampled : 06/16/08 14:30 Order #: 1109708 Sample Matrix: WATER
Date Received: 06/17/08 Submission #: R2844538 Analytical Run 162866

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/19/08			
DATE ANALYZED : 06/25/08			
ANALYTICAL DILUTION: 1.00			
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	0.047 U	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 %)	36 *	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	75	%

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : EX866.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 3:06 am
 Operator : M.PEDRO
 Sample : 1109708 1.0
 Misc : 06/19/08 212 ensr r44538 8081
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:08:50 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	9.27	9.04	1412.6E6	4288.9E6	75.007	70.292
Spiked Amount	100.000	Range 30 - 150	Recovery =		75.01%	70.29%
25) S SURR2,Decachloro	17.40	17.47	610.0E6	1492.6E6	35.716	34.194
Spiked Amount	100.000	Range 30 - 150	Recovery =		35.72%	34.19%
Target Compounds						
2) TC HEXACHLOROENZEN	9.97	9.85	5284263	29487098	0.195	0.335 #
3) tc alpha-BHC	10.26	0.00	60383176	0	2.011	N.D. #
4) tcm gamma-BHC (L	10.78	10.66	9575652	11110972	0.348	0.135 #
5) tcm Heptachlor	11.52	11.32	29714074	31310119	1.104	0.392 #
6) tcm Aldrin	0.00	11.79	0	12468972	N.D.	0.166 #
7) tc beta-BHC	0.00	10.83	0	15438951	N.D.	0.433 #
8) tc delta-BHC	11.24	11.28	7241143	25658912	0.262	0.309 #
9) tc Heptachlor E	12.90	12.62	3399752	88947935	0.148	1.324 #
11) tc gamma-Chlord	13.06	12.88	1610.2E6	76645688	70.652	1.099 #
12) tc alpha-Chlord	0.00	13.07	0	21566074	N.D.	0.325 #
13) tc 4,4'-DDE	13.37	0.00	92758194	0	4.126	N.D. #
14) tcm Dieldrin	13.85	13.52	12376015	115.5E6	0.532	1.769 #
15) tcm Endrin	0.00	13.98	0	20664706	N.D.	0.364 #
16) tc KEPONE	14.27	0.00	9659574	0	1.543	N.D. #
17) tc beta-Endosul	0.00	14.28	0	54926866	N.D.	1.001 #
18) tc 4,4'-DDD	14.27	0.00	9659574	0	0.514	N.D. #
19) tcm 4,4'-DDT	0.00	14.58	0	116.1E6	N.D.	2.118 #
20) tc Endrin Aldeh	15.14	14.77	8315502	207.0E6	0.563	5.144 #
21) tc Endosulfan S	0.00	15.14	0	20573780	N.D.	0.415 #
23) tc FAMPHUR	0.00	15.28	0	925622	N.D.	0.029 #
24) tc Endrin Keton	0.00	15.92	0	4621933	N.D.	0.085 #
26) L8C Toxaphene	14.62	14.43	54092115	11451269	129.529	6.989 #
27) L8C Toxaphene{2}	0.00	14.71	0	27591956	N.D.	35.867 #
29) L8C Toxaphene{4}	0.00	16.10	0	13423336	N.D.	8.252 #
30) L8C Toxaphene{5}	16.34	16.31	9461117	7759214	14.013	4.455 #
Sum Toxaphene			63553231	60225776	143.542	55.563

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : EX866.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 3:06 am
 Operator : M.PEDRO
 Sample : 1109708 1.0
 Misc : 06/19/08 212 ensr r44538 8081
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:08:50 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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					71.771	13.891
31) L9C Chlordane	0.00	11.12	0	5746430	N.D.	2.282 #
32) L9C Chlordane {2}	0.00	11.32	0	31310119	N.D.	9.154 #
33) L9C Chlordane {3}	0.00	12.04	0	34231356	N.D.	12.330 #
34) L9C Chlordane {4}	0.00	12.88	0	76645688	N.D.	9.686 #
35) L9C Chlordane {5}	0.00	14.36	0	46842880	N.D.	15.384 #
Sum Chlordane			0	194.8E6	N.D.	48.835
Average Chlordane					0.000	9.767

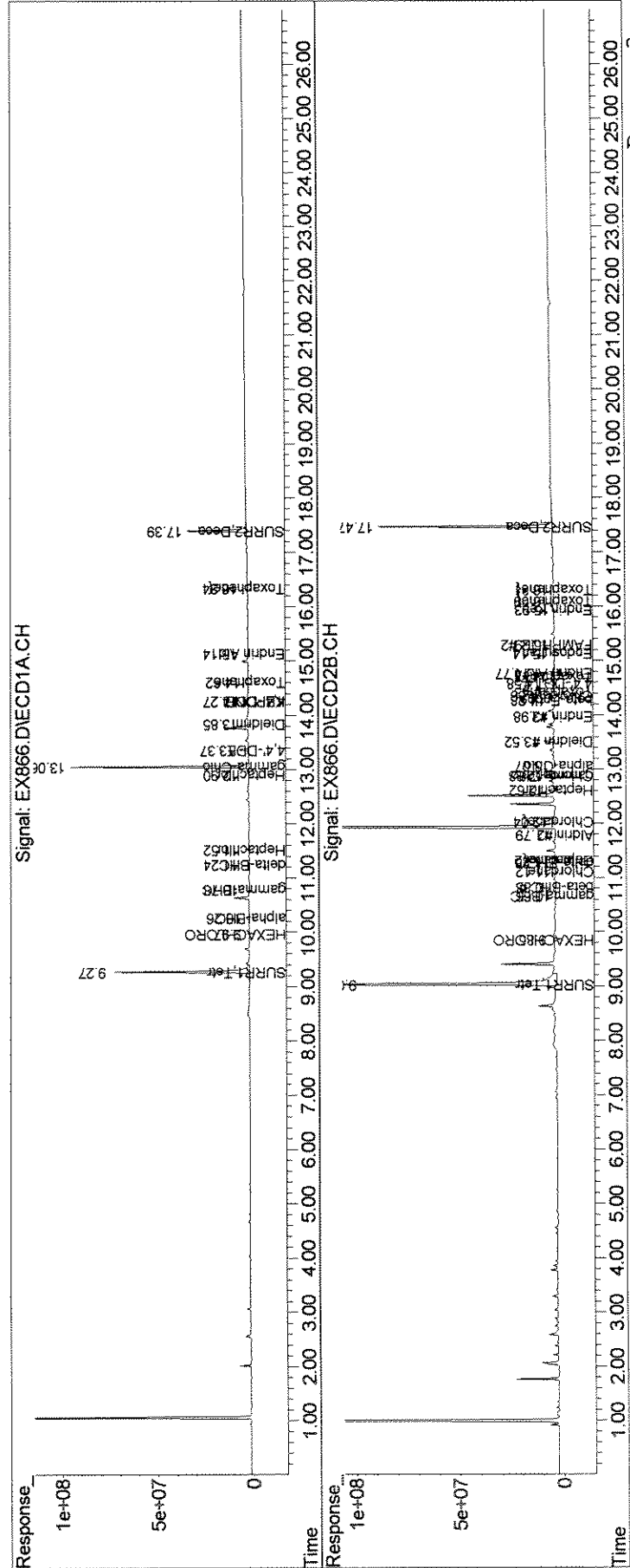
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062408\
Data File : EX866.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Jun 2008 3:06 am
Operator : M.PEDRO
Sample : 1109708 1.0
Misc : 06/19/08 212 ensr r44538 8081
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 25 07:08:50 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Wed Jun 25 07:06:05 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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-40B

Date Sampled : 06/18/08 13:00 Order #: 1110532 Sample Matrix: WATER
 Date Received: 06/19/08 Submission #: R2844538 Analytical Run 162866

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/19/08		
DATE ANALYZED	: 06/25/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.049	0.049 U	UG/L
ALPHA-BHC	0.049	3.1 E	UG/L
BETA-BHC	0.049	0.049 U	UG/L
GAMMA-BHC	0.049	0.23	UG/L
DELTA-BHC	0.049	1.2 E	UG/L
ALPHA-CHLORDANE	0.049	0.049 U	UG/L
GAMMA-CHLORDANE	0.049	0.049 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.049	0.049 U	UG/L
4,4'-DDT	0.049	0.049 U	UG/L
DIELDRIN	0.097	0.097 U	UG/L
ALPHA-ENDOSULFAN	0.049	0.049 U	UG/L
BETA-ENDOSULFAN	0.097	0.097 U	UG/L
ENDOSULFAN SULFATE	0.097	0.097 U	UG/L
ENDRIN	0.049	0.049 U	UG/L
ENDRIN ALDEHYDE	0.097	0.097 U	UG/L
ENDRIN KETONE	0.097	0.097 U	UG/L
HEPTACHLOR	0.049	0.049 U	UG/L
HEPTACHLOR EPOXIDE	0.049	0.049 U	UG/L
HEXACHLORO BENZENE	0.049	0.049 U	UG/L
METHOXYCHLOR	0.49	0.49 U	UG/L
4,4'-TDE (DDD)	0.049	0.049 U	UG/L
TOXAPHENE	0.97	0.97 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	99	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	80	%

Data Path : J:\ACQUADATA\6890D\DATA\062408\
 Data File : ex867.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 3:41 am
 Operator : M.PEDRO
 Sample : 1110532 1.0
 Misc : 06/19/08 206 ensr r44538 8081
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:34:45 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	9.27	9.04	1512.4E6	4500.1E6	80.304	73.753
Spiked Amount	100.000	Range 30 - 150	Recovery =		80.30%	73.75%
25) S SURR2,Decachloro	17.40	17.47	1684.9E6	3955.9E6	98.644m	90.626m
Spiked Amount	100.000	Range 30 - 150	Recovery =		98.64%	90.63%
Target Compounds						
3) tc alpha-BHC	10.27	10.10	18942.0E6	45001.2E6	630.752	486.675 E
4) tcm gamma-BHC (L	10.79	10.66	1310.1E6	3471.1E6	47.658m	42.249m
8) tc delta-BHC	11.24	11.26	6856.5E6	19082.6E6	247.914	229.653 E
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

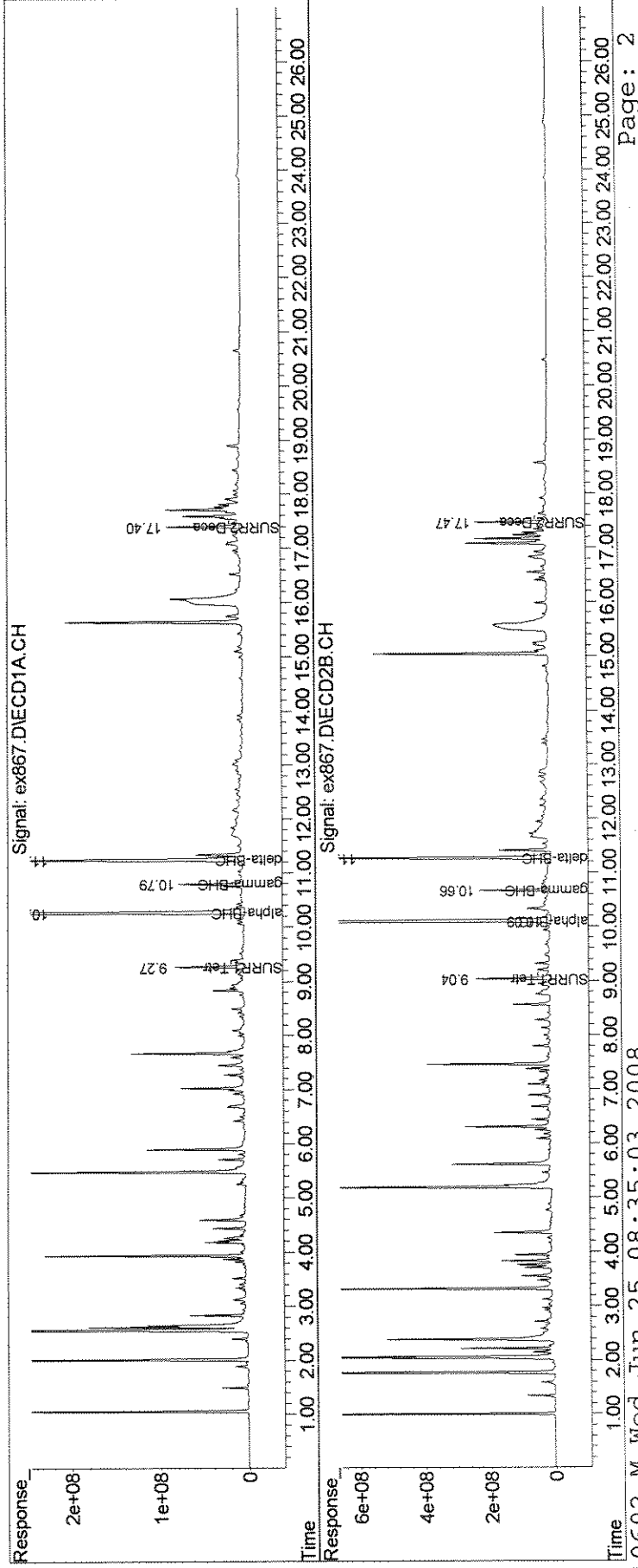
*Ret
1/20
m/s*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex867.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 3:41 am
 Operator : M.PEDRO
 Sample : 1110532 1.0
 Misc : 06/19/08 206 ensr r44538 8081
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:34:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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



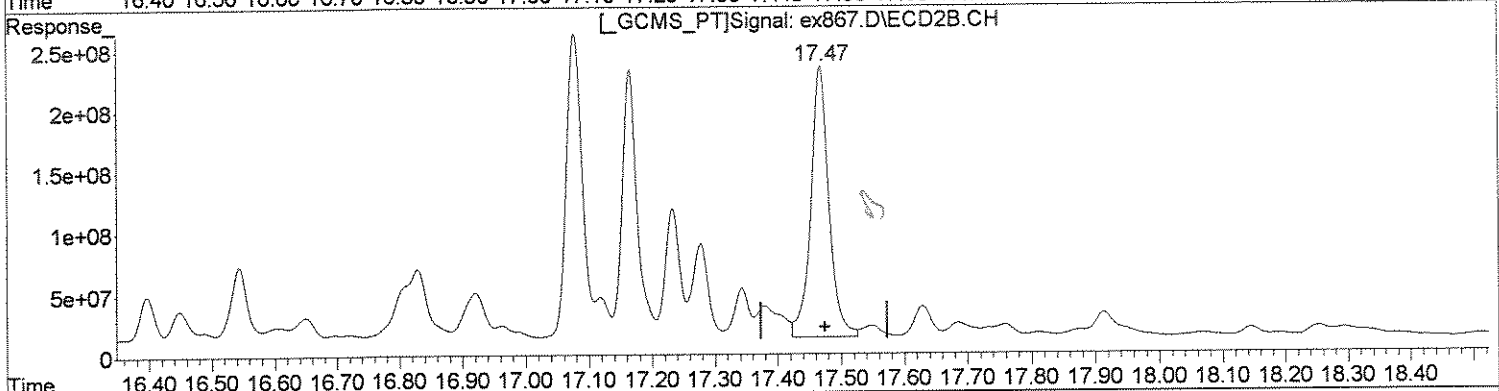
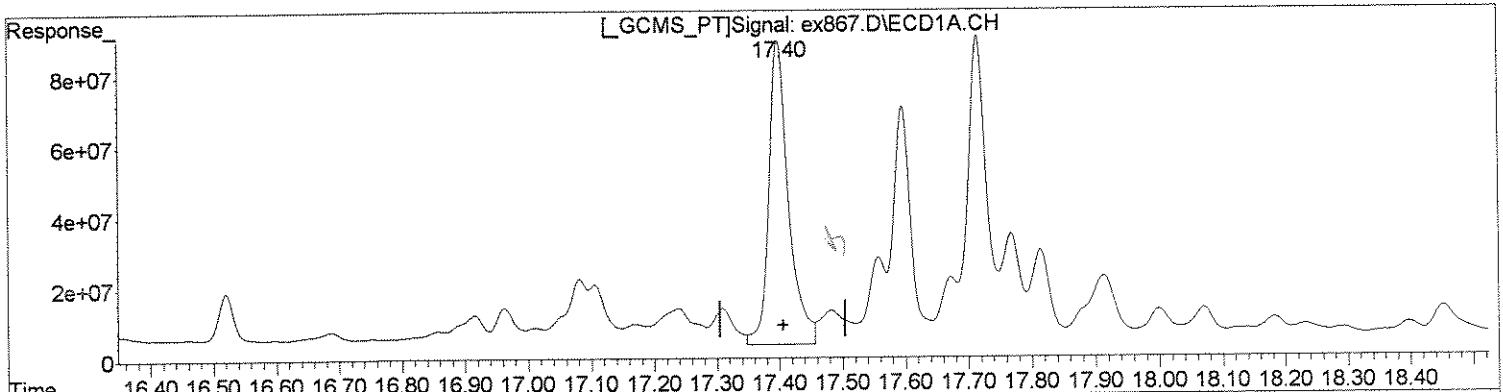
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Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062408\
Data File : ex867.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Jun 2008 3:41 am
Operator : M.PEDRO
Sample : 1110532 1.0
Misc : 06/19/08 206 ensr r44538 8081
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 25 07:08:55 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Wed Jun 25 07:06:05 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)
17.40min 109.601ug/l
response 1872009625

Handwritten mark

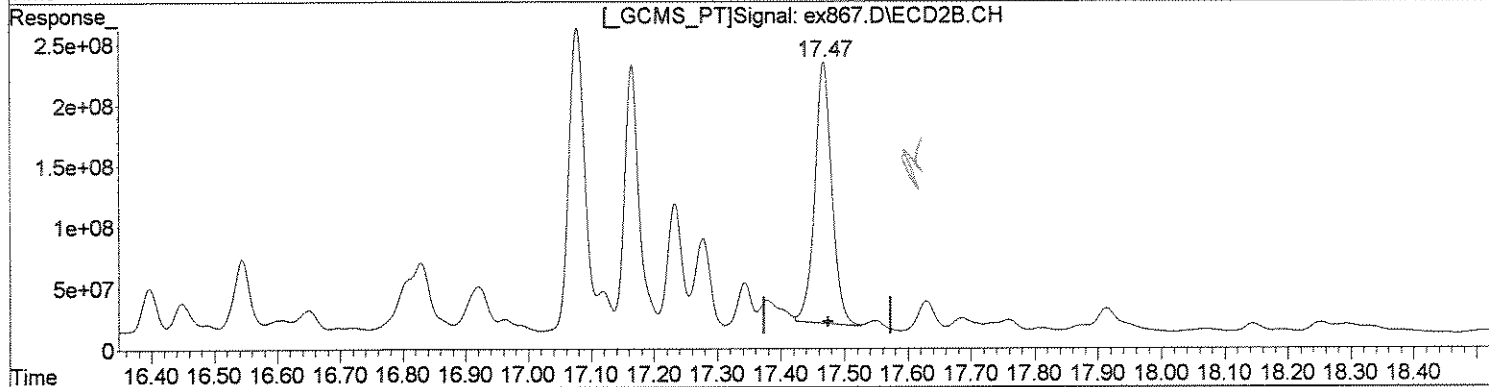
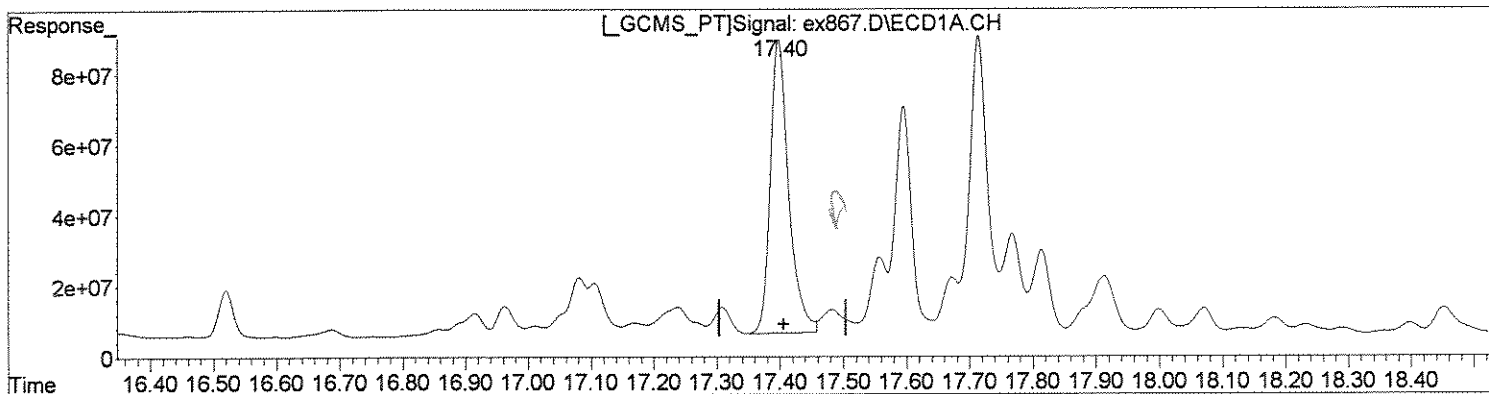
(25) SURR2,Decachlorobiphenyl #2 (S)
17.47min 100.256ug/l
response 4376254258

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex867.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 3:41 am
 Operator : M.PEDRO
 Sample : 1110532 1.0
 Misc : 06/19/08 206 ensr r44538 8081
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:08:55 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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)
 17.40min 98.644ug/l m
 response 1684869311

MVP
6/25

(25) SURR2,Decachlorobiphenyl #2 (S)
 17.47min 90.626ug/l m
 response 3955893878

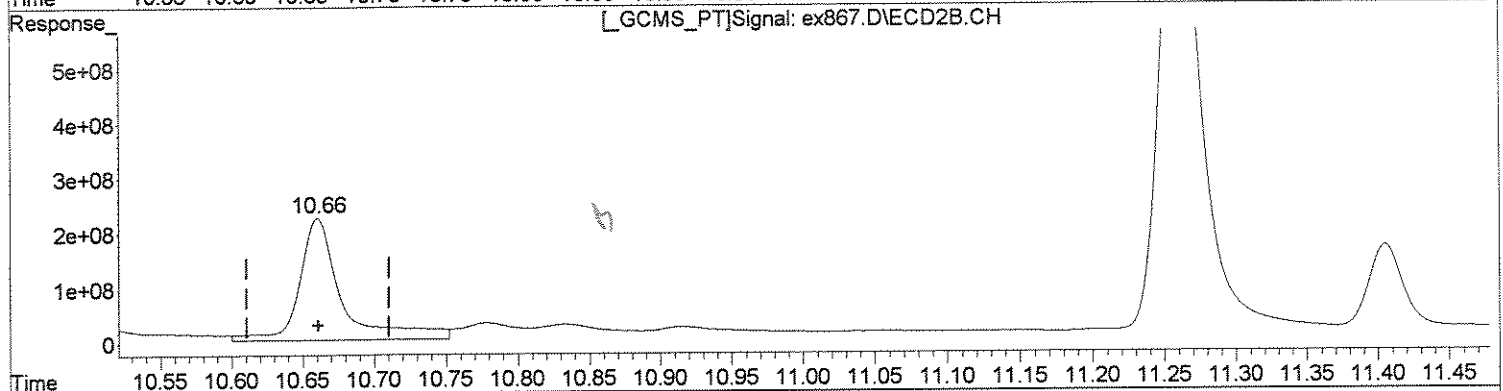
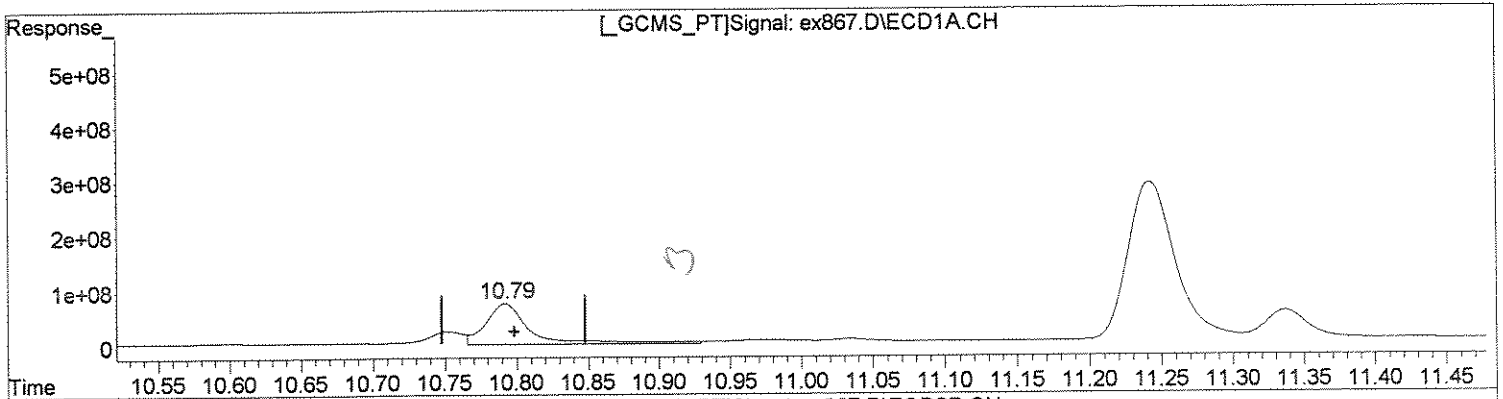
MVP
6/25

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062408\
Data File : ex867.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Jun 2008 3:41 am
Operator : M.PEDRO
Sample : 1110532 1.0
Misc : 06/19/08 206 ensr r44538 8081
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 25 07:08:55 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Wed Jun 25 07:06:05 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))
10.79min 61.417ug/l
response 1688291842

(4) gamma-BHC (L #2 (tcm))
10.66min 55.781ug/l
response 4582799795

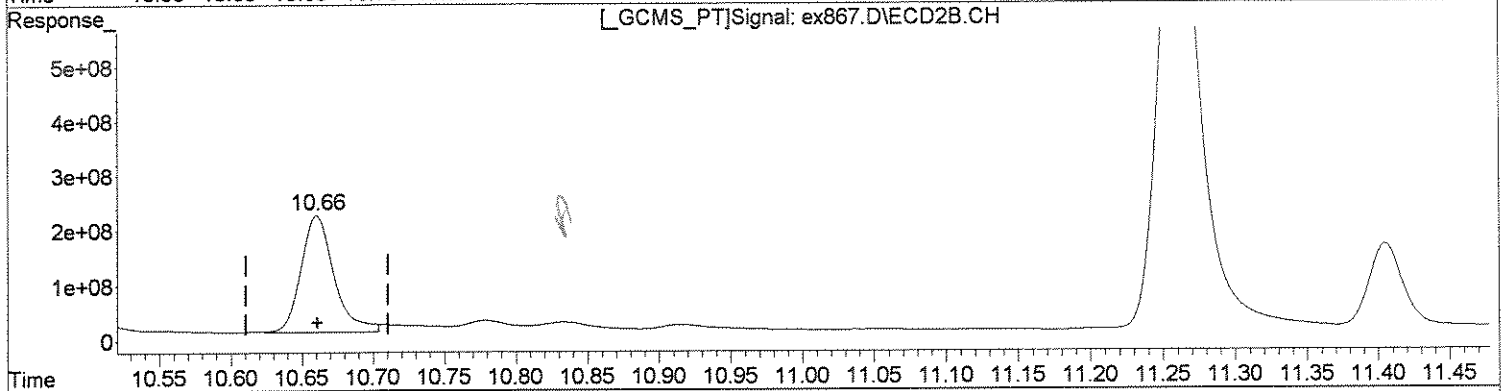
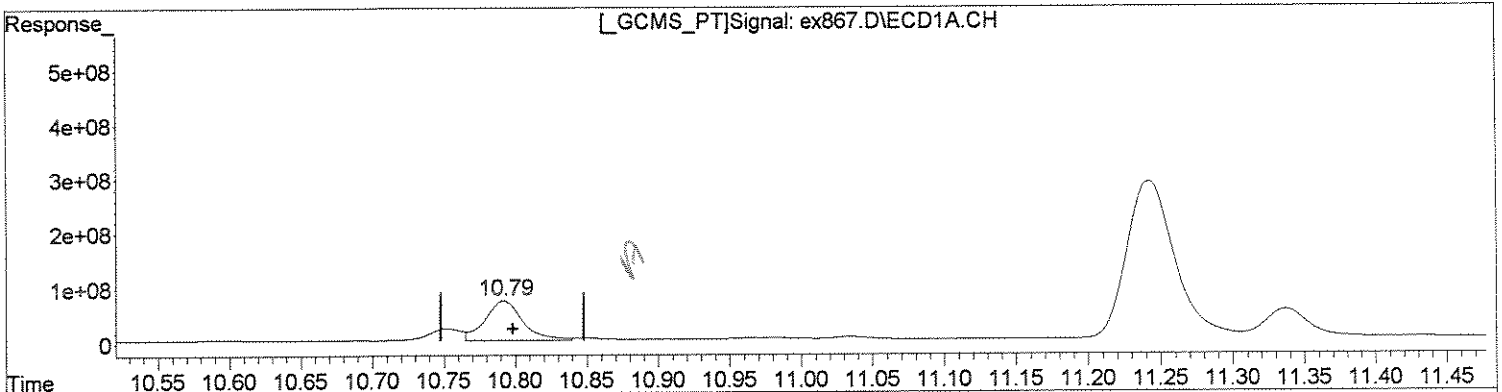
h

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062408\
Data File : ex867.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Jun 2008 3:41 am
Operator : M.PEDRO
Sample : 1110532 1.0
Misc : 06/19/08 206 ensr r44538 8081
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 25 07:08:55 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Wed Jun 25 07:06:05 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))
10.79min 47.658ug/l m
response 1310068581

(4) gamma-BHC (L #2 (tcm))
10.66min 42.249ug/l m
response 3471055208

*mg
4/25*

*mg
4/11*

Data Path : J:\ACQUADATA\6890D\DATA\062408\
 Data File : EX867.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 3:41 am
 Operator : M.PEDRO
 Sample : 1110532 1.0
 Misc : 06/19/08 206 ensr r44538 8081
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:08:55 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	9.27	9.04	1512.4E6	4500.1E6	80.304	73.753
Spiked Amount	100.000	Range 30 - 150	Recovery =	80.30%	73.75%	
25) S SURR2,Decachloro	17.40	17.47	1872.0E6	4376.3E6	109.601	100.256
Spiked Amount	100.000	Range 30 - 150	Recovery =	109.60%	100.26%	
Target Compounds						
2) TC HEXACHLORO BENZEN	9.98	9.85	67828890	202.4E6	2.497	2.300
3) tc alpha-BHC	10.27	10.10	18942.0E6	45001.2E6	630.752	486.675
4) tcm gamma-BHC (L	10.79	10.66	1688.3E6	4582.8E6	61.417	55.781
6) tcm Aldrin	12.00	11.76	752.8E6	1409.2E6	30.587	18.802 #
7) tc beta-BHC	10.97	10.83	255.2E6	875.9E6	22.108	24.553
8) tc delta-BHC	11.24	11.26	6856.5E6	19082.6E6	247.914	229.653
9) tc Heptachlor E	12.91	12.60	277.1E6	406.6E6	12.026	6.052 #
10) tc alpha-Endosu	13.50	13.17	48179869	145.6E6	2.338	2.443
11) tc gamma-Chlord	13.10	12.88	333.5E6	988.9E6	14.631	14.182
12) tc alpha-Chlord	13.28	13.09	184.1E6	369.9E6	8.240	5.569 #
13) tc 4,4'-DDE	13.37	13.35	116.0E6	415.1E6	5.160	6.368
14) tcm Dieldrin	13.80	13.52	101.5E6	505.2E6	4.361	7.742 #
15) tcm Endrin	0.00	13.99	0	177.4E6	N.D.	3.127 #
16) tc KEPONE	0.00	14.18	0	27891729	N.D.	1.630 #
17) tc beta-Endosul	0.00	14.29	0	101.1E6	N.D.	1.844 #
19) tcm 4,4'-DDT	14.68	14.59	58501717	205.1E6	2.920	3.743 #
20) tc Endrin Aldeh	15.10	14.77	229.5E6	169.3E6	15.527	4.209 #
21) tc Endosulfan S	15.75	0.00	595.9E6	0	32.854	N.D. #
22) tc Methoxychlor	0.00	15.57	0	12852.6E6	N.D.	532.956 #
23) tc FAMPHUR	16.06	15.32	6650.0E6	3006654	511.694	0.095 #
24) tc Endrin Keton	0.00	15.93	0	25694704	N.D.	0.475 #
26) L8C Toxaphene	14.61	14.41	111.3E6	45072842	266.452	27.509 #
27) L8C Toxaphene {2}	14.68	0.00	58501717	0	156.030	N.D. #
28) L8C Toxaphene {3}	15.28	14.82	52288752	375.9E6	73.117	227.529 #
29) L8C Toxaphene {4}	0.00	16.09	0	133.1E6	N.D.	81.838 #
30) L8C Toxaphene {5}	16.35	0.00	174.5E6	0	258.427	N.D. #

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : EX867.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 3:41 am
 Operator : M.PEDRO
 Sample : 1110532 1.0
 Misc : 06/19/08 206 ensr r44538 8081
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:08:55 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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

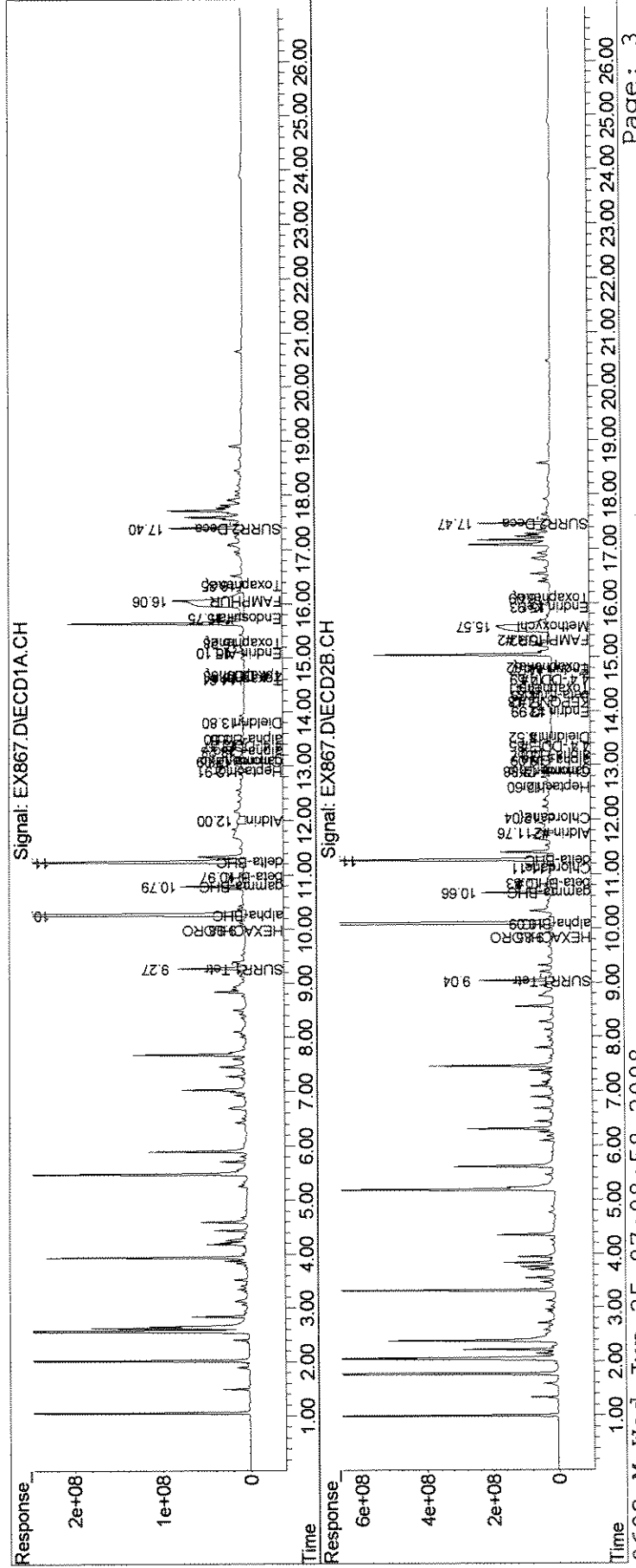
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum Toxaphene			396.5E6	554.1E6	754.026	336.877
Average Toxaphene					188.506	112.292
31) L9C Chlordane	0.00	11.12	0	210.0E6	N.D.	83.362 #
33) L9C Chlordane{3}	0.00	12.04	0	984.7E6	N.D.	354.691 #
34) L9C Chlordane{4}	13.10	12.88	333.5E6	988.9E6	121.839	124.962
Sum Chlordane			333.5E6	2183.5E6	121.839	563.016
Average Chlordane					121.839	187.672

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\062408\
 Data File : EX867.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 3:41 am
 Operator : M.PEDRO
 Sample : 1110532 1.0
 Misc : 06/19/08 206 ensr r44538 8081
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:08:55 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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: 08/05/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : PC-40B

Date Sampled : 06/18/08 13:00 **Order #:** 1110532 **Sample Matrix:** WATER
Date Received: 06/19/08 **Submission #:** R2844538 **Analytical Run** 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/19/08		
DATE ANALYZED	: 06/26/08		
ANALYTICAL DILUTION:	20.00		
ALDRIN	0.049	0.98 U	UG/L
ALPHA-BHC	0.049	3.7 D	UG/L
BETA-BHC	0.049	0.98 U	UG/L
GAMMA-BHC	0.049	0.98 U	UG/L
DELTA-BHC	0.049	1.3 D	UG/L
ALPHA-CHLORDANE	0.049	0.98 U	UG/L
GAMMA-CHLORDANE	0.049	0.98 U	UG/L
CHLORDANE	0.24	4.8 U	UG/L
4,4'-DDE	0.049	0.98 U	UG/L
4,4'-DDT	0.049	0.98 U	UG/L
DIELDRIN	0.097	1.9 U	UG/L
ALPHA-ENDOSULFAN	0.049	0.98 U	UG/L
BETA-ENDOSULFAN	0.097	1.9 U	UG/L
ENDOSULFAN SULFATE	0.097	1.9 U	UG/L
ENDRIN	0.049	0.98 U	UG/L
ENDRIN ALDEHYDE	0.097	1.9 U	UG/L
ENDRIN KETONE	0.097	1.9 U	UG/L
HEPTACHLOR	0.049	0.98 U	UG/L
HEPTACHLOR EPOXIDE	0.049	0.98 U	UG/L
HEXACHLOROBENZENE	0.049	0.98 U	UG/L
METHOXYCHLOR	0.49	9.8 U	UG/L
4,4'-TDE (DDD)	0.049	0.98 U	UG/L
TOXAPHENE	0.97	19 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	100	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	82	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex874.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 12:34 pm
 Operator : M.PEDRO
 Sample : 1110532 20.0
 Misc : 06/19/08 206 ensr r44538 8081
 ALS Vial : 4 Sample Multiplier: 1

RE

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:11:47 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

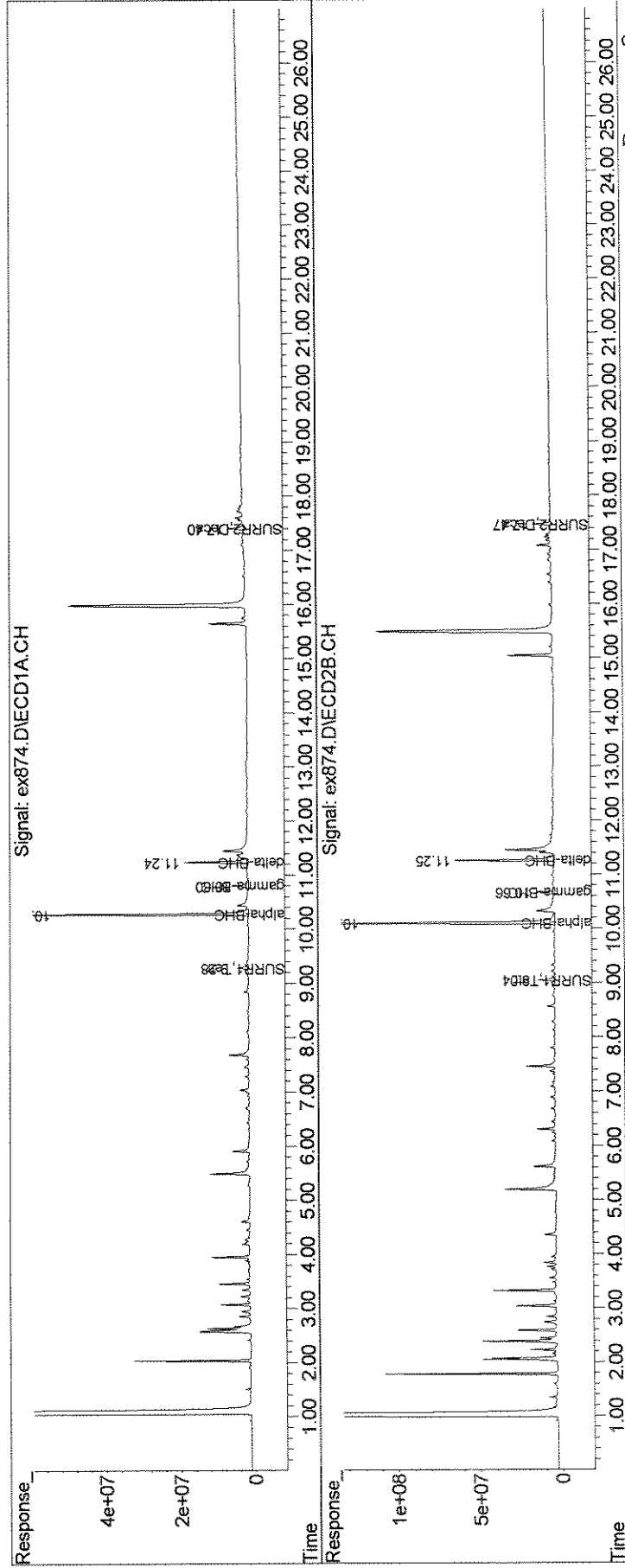
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	66032893	250.3E6	3.506	4.103
Spiked Amount	100.000	Range 30 - 150	Recovery =		3.51%#	4.10%#
25) S SURR2,Decachloro	17.40	17.47	85263158	203.1E6	4.992	4.653
Spiked Amount	100.000	Range 30 - 150	Recovery =		4.99%#	4.65%#
Target Compounds						
3) tc alpha-BHC	10.27	10.09	1147.1E6	3562.6E6	38.196	38.528
4) tcm gamma-BHC (L	10.80	10.66	100.7E6	225.0E6	3.663	2.739 #
8) tc delta-BHC	11.24	11.26	338.7E6	1115.0E6	12.246	13.418
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.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex874.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 12:34 pm
Operator : M.PEDRO
Sample : 1110532 20.0
Misc : 06/19/08 206 ensr r44538 8081
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 09:11:47 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



00512

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX874.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 12:34 pm
 Operator : M.PEDRO
 Sample : 1110532 20.0
 Misc : 06/19/08 206 ensr r44538 8081
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:30:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.28	9.04	66032893	250.3E6	3.506	4.103
Spiked Amount	100.000	Range	30 - 150	Recovery	= 3.51%#	4.10%#
25) S SURR2,Decachloro	17.40	17.47	85263158	203.1E6	4.992	4.653
Spiked Amount	100.000	Range	30 - 150	Recovery	= 4.99%#	4.65%#
Target Compounds						
2) TC HEXACHLOROBENZEN	0.00	9.85	0	12768213	N.D.	0.145 #
3) tc alpha-BHC	10.27	10.09	1147.1E6	3562.6E6	38.196	38.528
4) tcm gamma-BHC (L	10.80	10.66	100.7E6	225.0E6	3.663	2.739 #
6) tcm Aldrin	12.01	11.76	22667789	56145204	0.921	0.749
7) tc beta-BHC	10.97	10.82	10117480	55123970	0.876	1.545 #
8) tc delta-BHC	11.24	11.26	338.7E6	1115.0E6	12.246	13.418
9) tc Heptachlor E	12.92	12.60	12003494	14853423	0.521	0.221 #
11) tc gamma-Chlord	13.10	12.89	15963528	73954748	0.700	1.061 #
13) tc 4,4'-DDE	13.39	13.34	5292938	18419605	0.235	0.283
14) tcm Dieldrin	13.82	13.52	3816083	22985935	0.164	0.352 #
15) tcm Endrin	0.00	13.99	0	3357694	N.D.	0.059 #
17) tc beta-Endosul	0.00	14.28	0	4513452	N.D.	0.082 #
19) tcm 4,4'-DDT	0.00	14.58	0	11828122	N.D.	0.216 #
20) tc Endrin Aldeh	15.13	14.77	3178819	18792194	0.215	0.467 #
21) tc Endosulfan S	15.75	15.16	28276809	7655870	1.559	0.154 #
24) tc Endrin Keton	0.00	15.93	0	4670112	N.D.	0.086 #
26) L8C Toxaphene	14.62	0.00	3662444	0	8.770	N.D. #
27) L8C Toxaphene {2}	0.00	14.70	0	3538343	N.D.	4.599 #
28) L8C Toxaphene {3}	0.00	14.81	0	22168104	N.D.	13.418 #
29) L8C Toxaphene {4}	0.00	16.08	0	4395783	N.D.	2.702 #
30) L8C Toxaphene {5}	16.35	0.00	2232492	0	3.307	N.D. #
Sum Toxaphene			5894936	30102231	12.077	20.720
Average Toxaphene					6.038	6.907
31) L9C Chlordane	11.45	0.00	289.3E6	0	378.068	N.D. #
33) L9C Chlordane {3}	0.00	12.04	0	33138108	N.D.	11.936 #

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX874.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 12:34 pm
 Operator : M.PEDRO
 Sample : 1110532 20.0
 Misc : 06/19/08 206 ensr r44538 8081
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:30:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

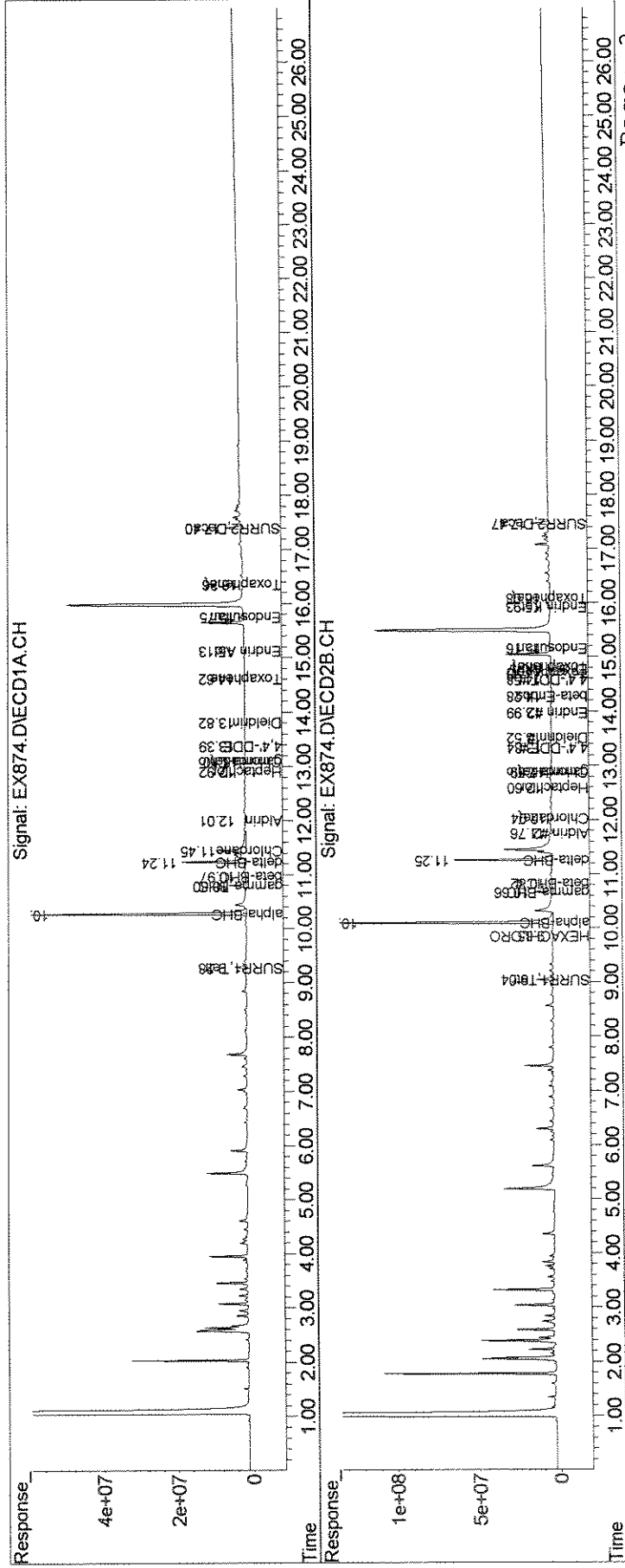
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34) L9C Chlordane{4}	13.10	12.89	15963528	73954748	5.833	9.346 #
Sum Chlordane			305.3E6	107.1E6	383.900	21.282
Average Chlordane					191.950	10.641

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX874.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 12:34 pm
 Operator : M.PEDRO
 Sample : 1110532 20.0
 Misc : 06/19/08 206 ensr r44538 8081
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:30:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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



00615

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : H-48B

Date Sampled : 06/19/08 10:30 Order #: 1110981 Sample Matrix: WATER
 Date Received: 06/20/08 Submission #: R2844538 Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/25/08		
DATE ANALYZED	: 06/27/08		
ANALYTICAL DILUTION:	1.00		
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	0.27	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 %)	35 *	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	84	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex895.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 1:11 am
 Operator : M.PEDRO
 Sample : 1110981 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 12:47:09 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.03	1574.0E6	4759.1E6	83.575	77.997
Spiked Amount	100.000	Range	30 - 150	Recovery =	83.58%	78.00%
25) S SURR2,Decachloro	17.39	17.46	605.2E6	1442.5E6	35.431m	33.046m
Spiked Amount	100.000	Range	30 - 150	Recovery =	35.43%	33.05%

Target Compounds

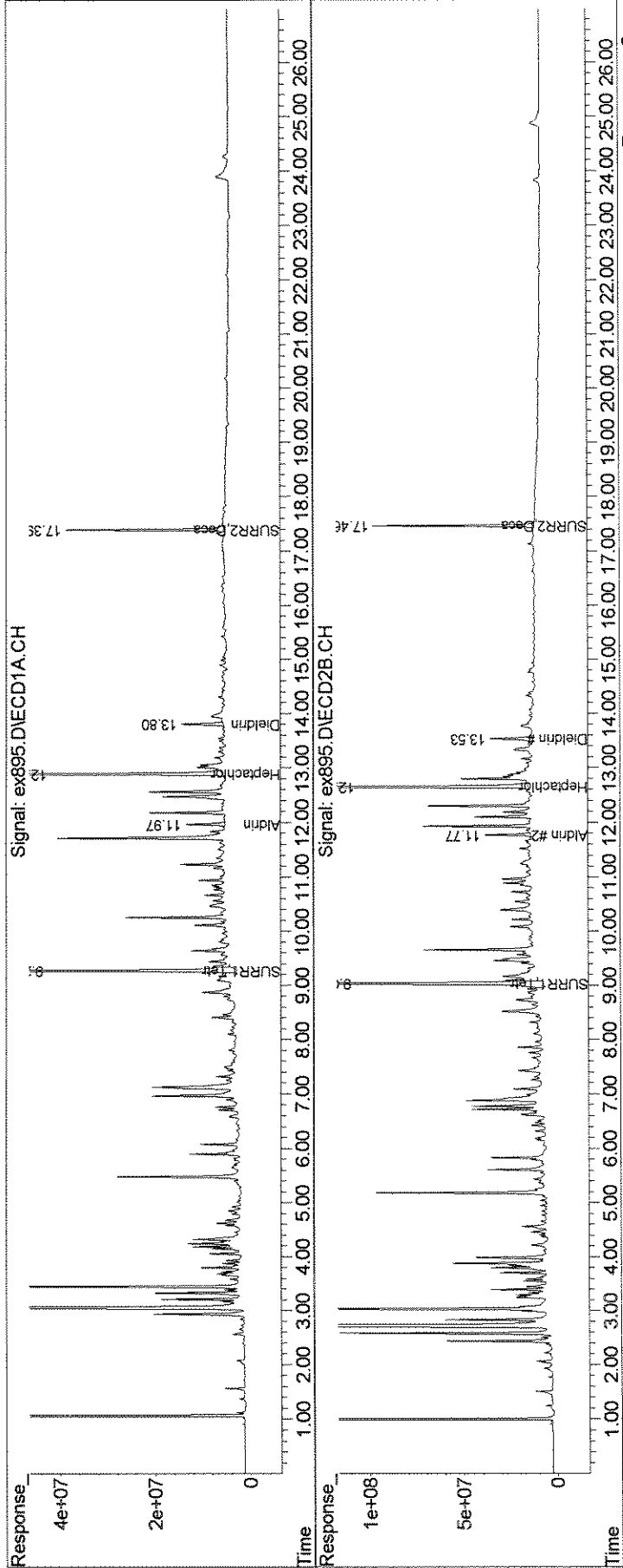
6) tcm Aldrin	11.97	11.77	156.3E6	421.9E6	6.349m	5.629m
9) tc Heptachlor E	12.89	12.65f	1328.9E6	3819.8E6	57.675m	56.848m
14) tcm Dieldrin	13.80	13.53	185.1E6	464.3E6	7.948m	7.116m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:11 am
Operator : M.PEDRO
Sample : 1110981 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 12:47:09 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



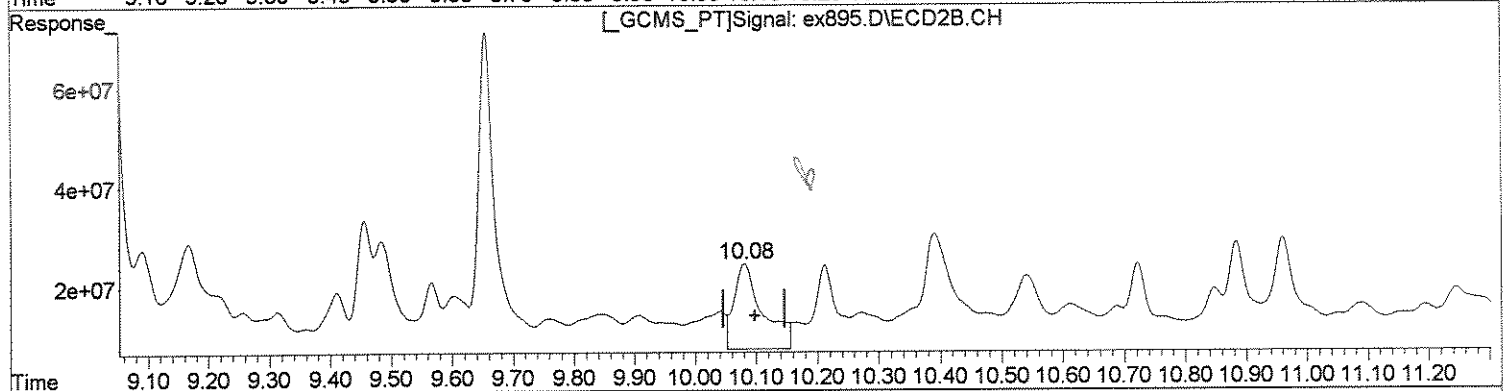
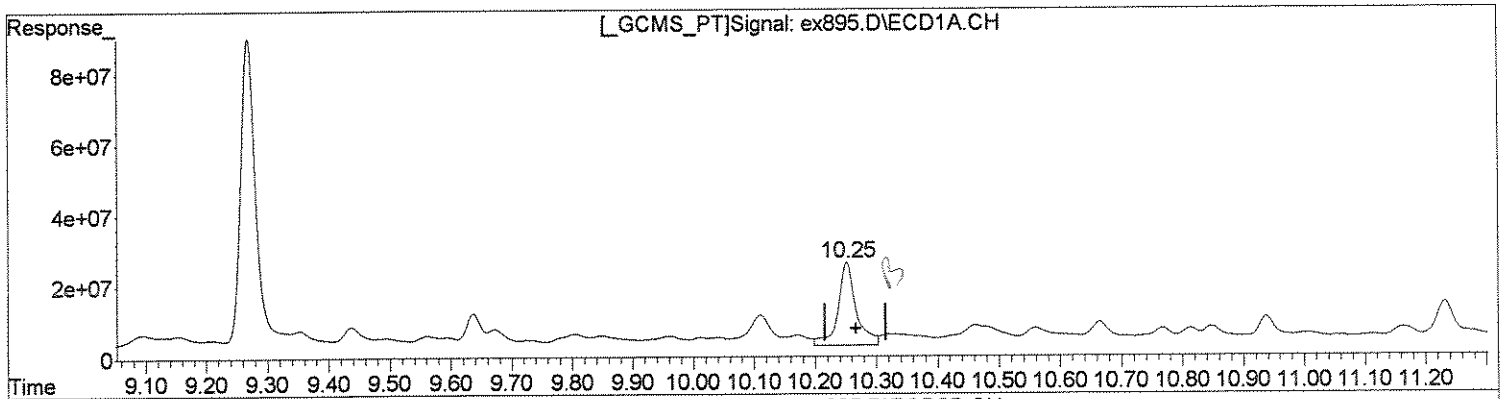
062608

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:11 am
Operator : M.PEDRO
Sample : 1110981 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
10.25min 15.934ug/l
response 478504509

(3) alpha-BHC #2 (tc)
10.08min 6.032ug/l
response 557728580

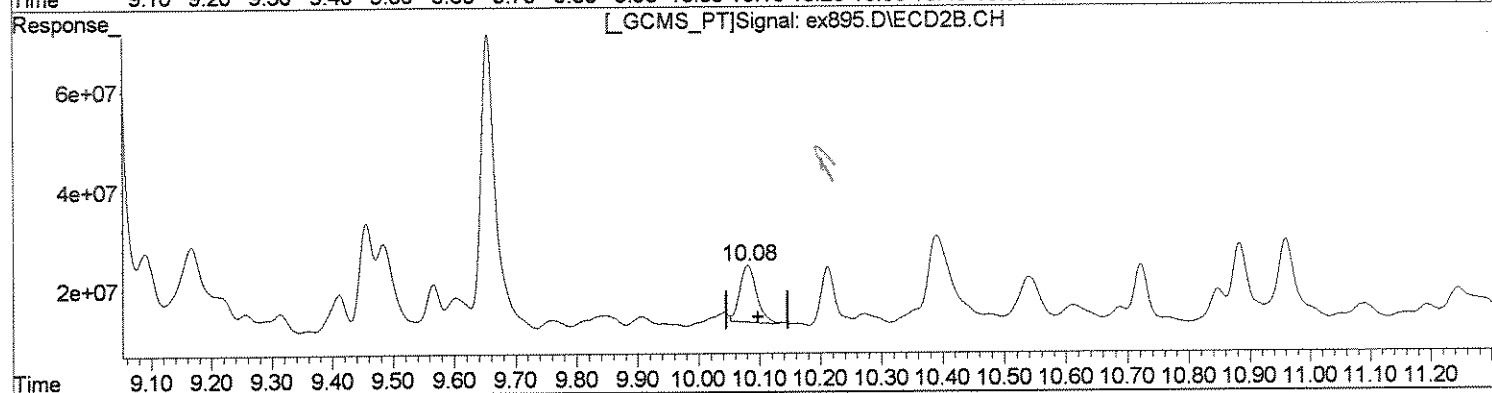
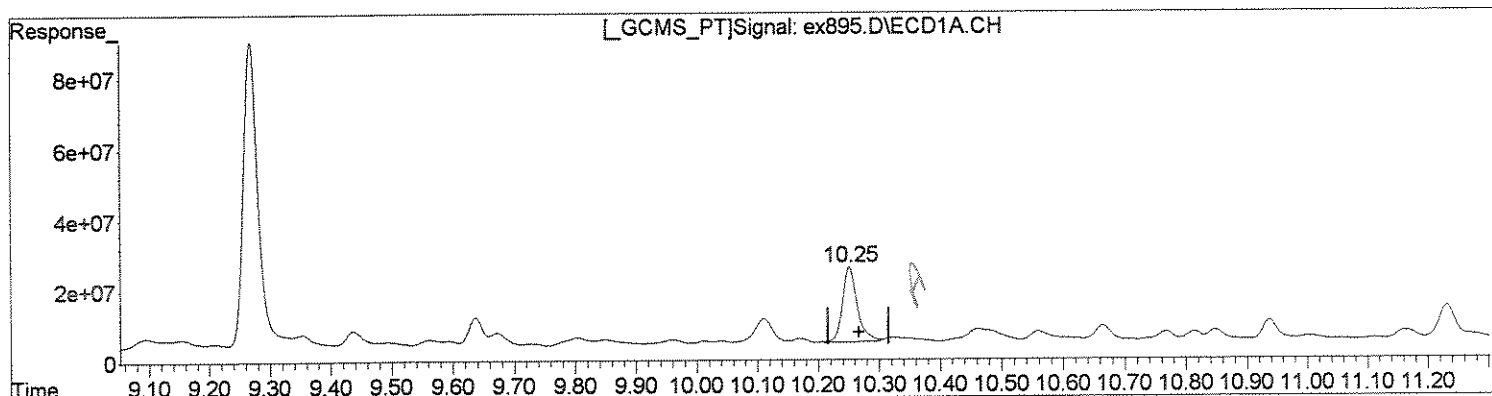
Blank

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:11 am
Operator : M.PEDRO
Sample : 1110981 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
10.25min 11.929ug/l m
response 358241463

(3) alpha-BHC #2 (tc)
10.08min 2.343ug/l m
response 216611549

MW 6/27

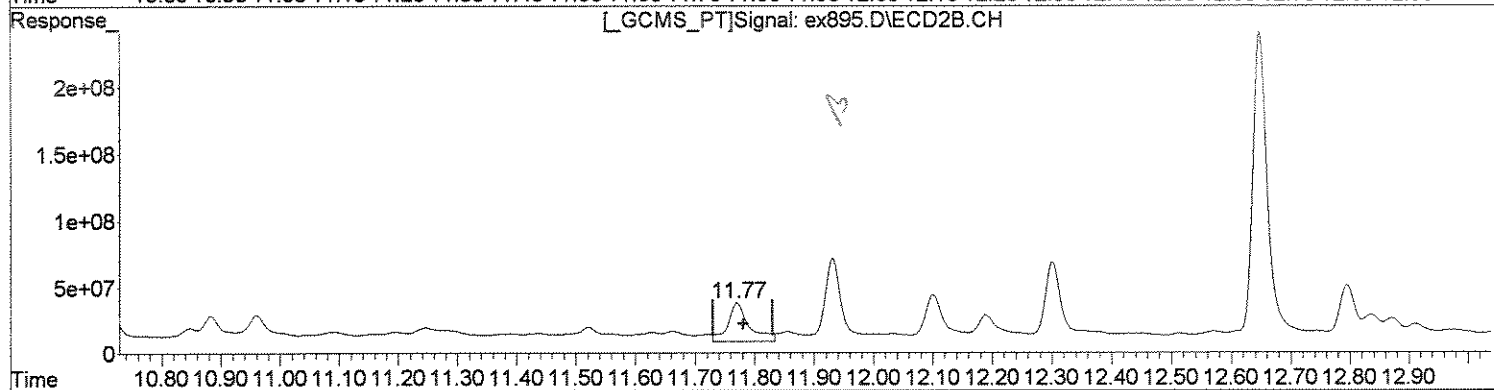
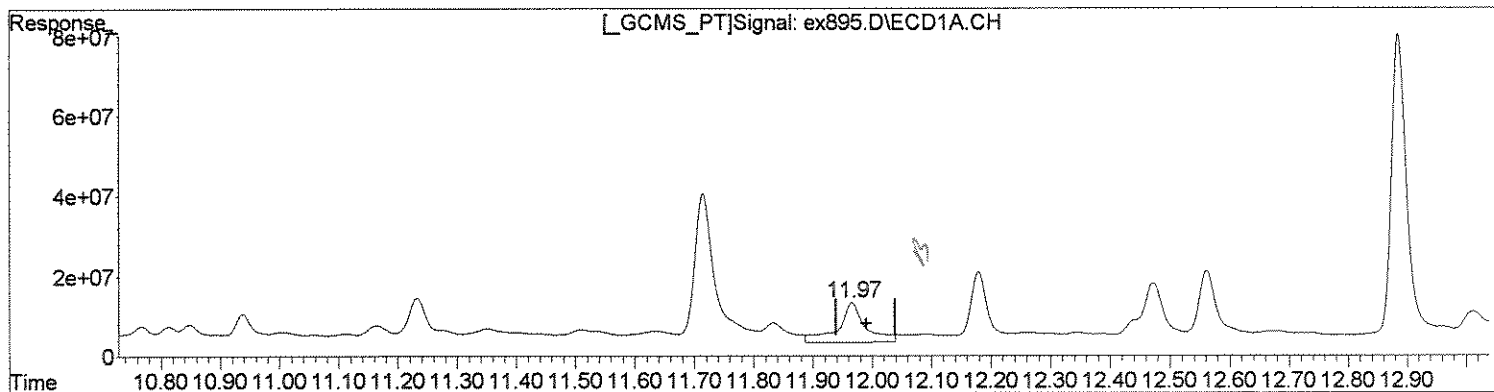
MW 6/27

Quantitation Report (Qedit)

Data Path : J:\ACQUATA\6890D\DATA\062608\
Data File : ex895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:11 am
Operator : M.PEDRO
Sample : 1110981 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:39 2008
Quant Method : J:\ACQUATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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

(6) Aldrin (tcm)
11.97min 13.053ug/l
response 321270978

(6) Aldrin #2 (tcm)
11.77min 9.910ug/l
response 742698556

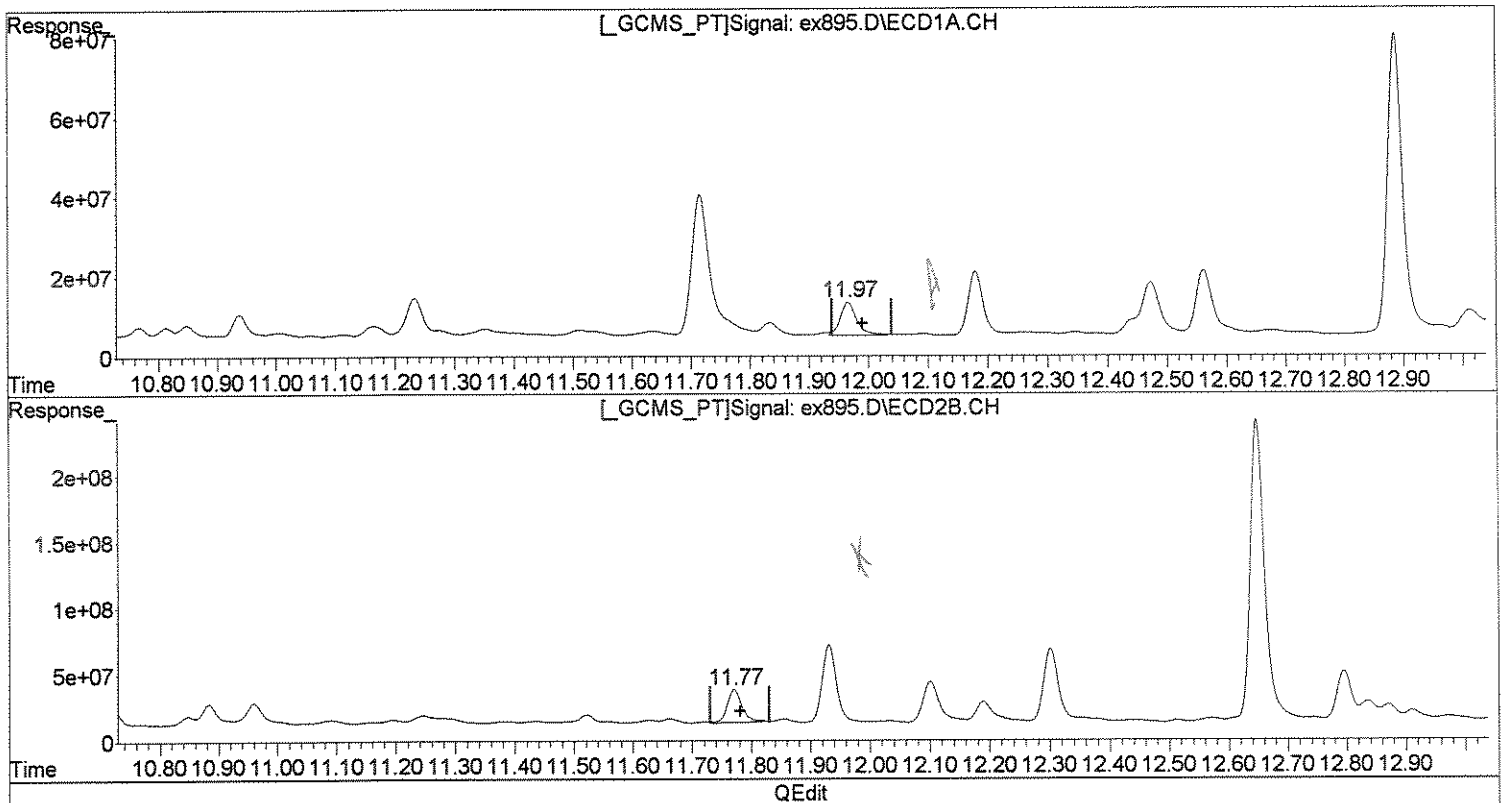
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:11 am
Operator : M.PEDRO
Sample : 1110981 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(6) Aldrin (tcm)
11.97min 6.349ug/l m
response 156274403

MW 1/1/07

MW 1/1/07

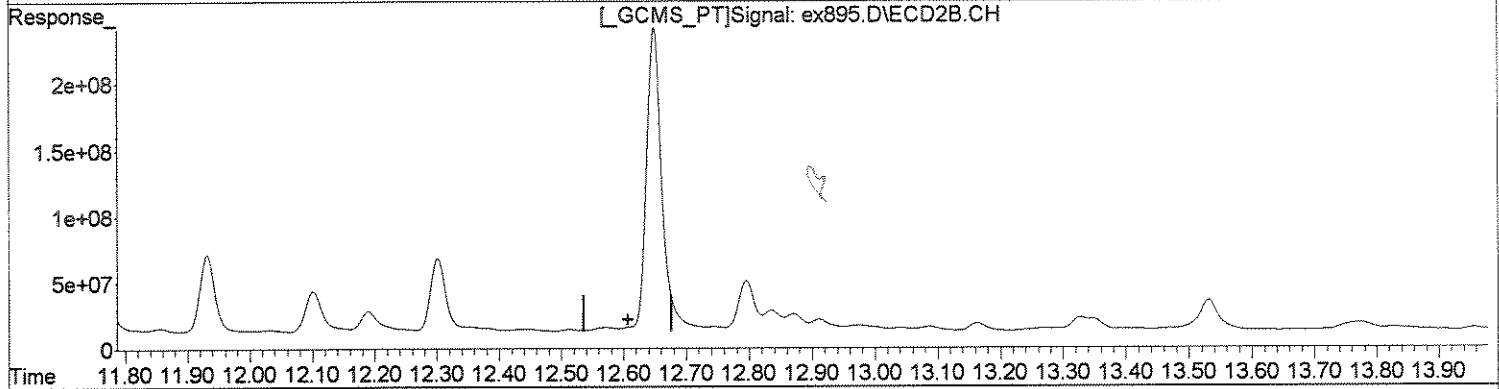
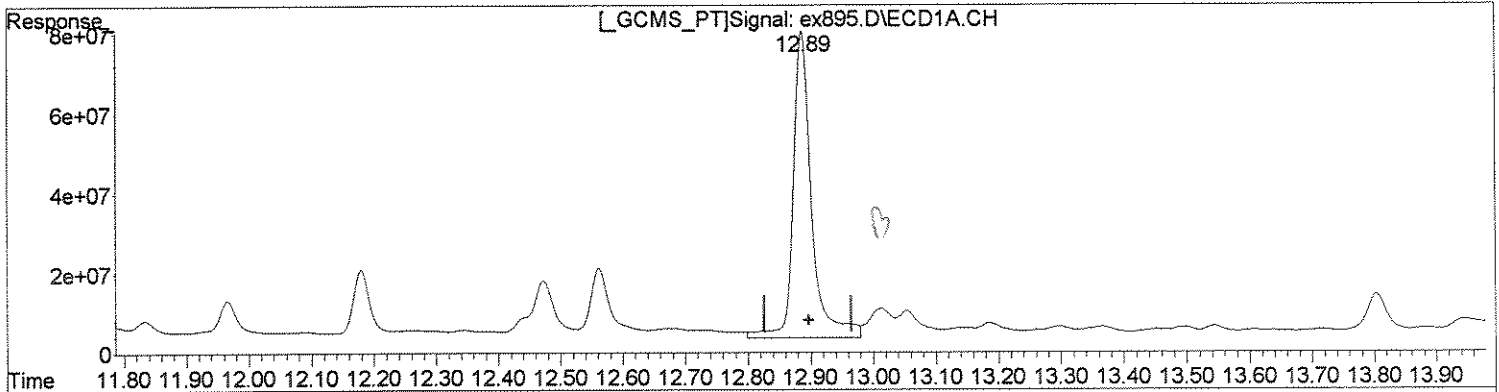
(6) Aldrin #2 (tcm)
11.77min 5.629ug/l m
response 421904186

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:11 am
Operator : M.PEDRO
Sample : 1110981 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
12.89min 67.903ug/l
response 1564593669

Handwritten signature

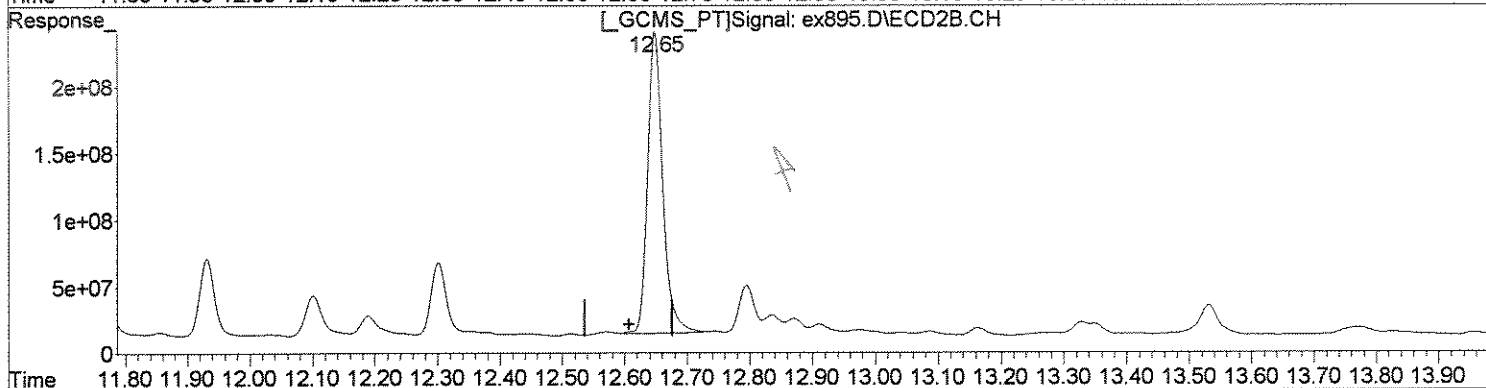
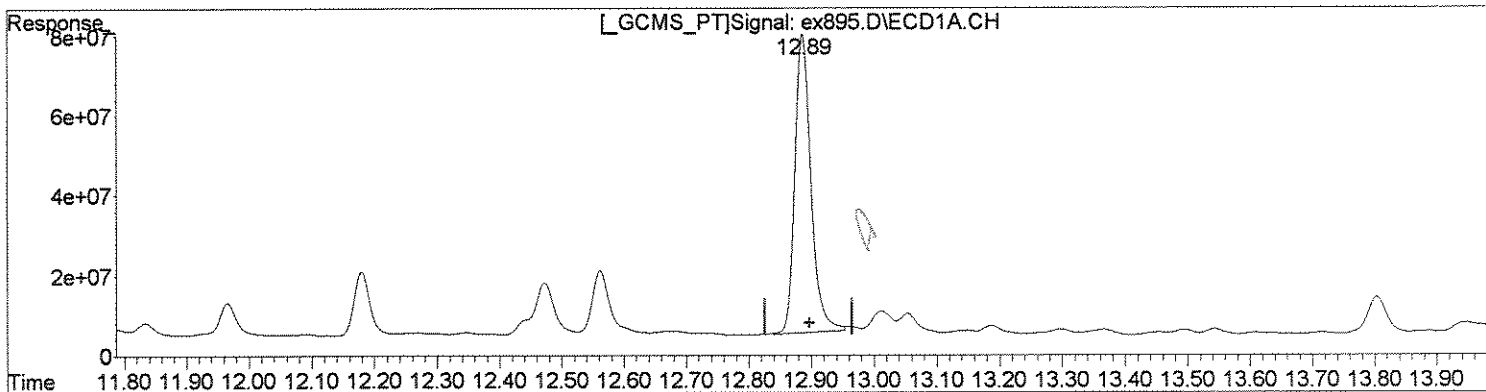
(9) Heptachlor E #2 (tc)
0.00min 0.000ug/l
response 0

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:11 am
Operator : M.PEDRO
Sample : 1110981 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
12.89min 57.675ug/l m
response 1328910376

mf 6/27

mf 6/27

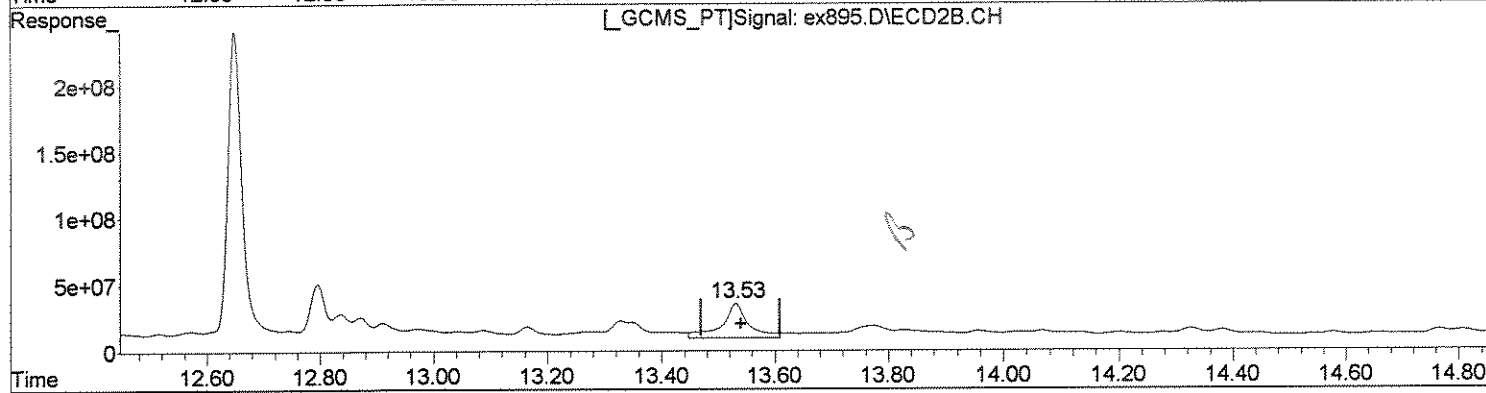
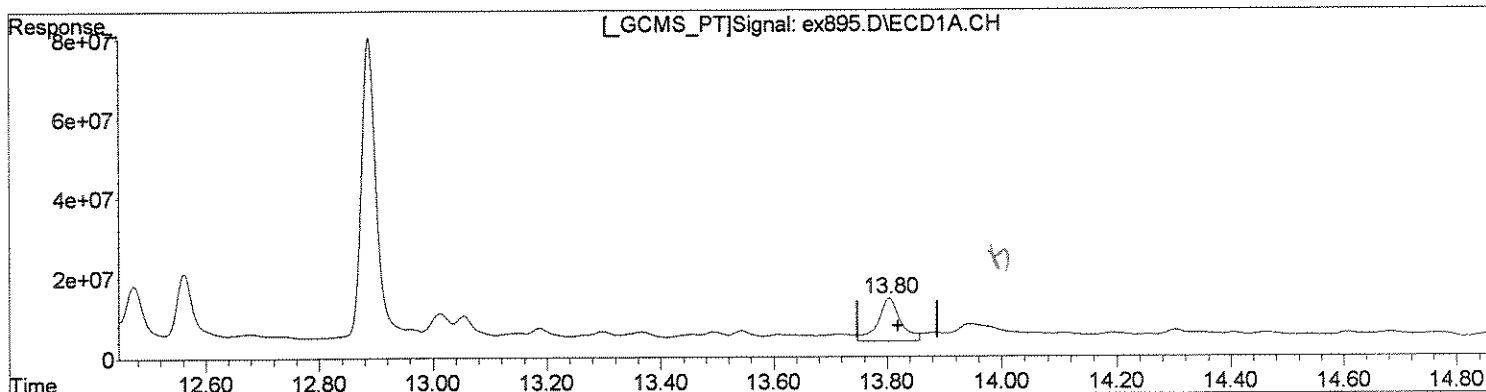
(9) Heptachlor E #2 (tc)
12.65min 56.848ug/l m
response 3819775004

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:11 am
Operator : M.PEDRO
Sample : 1110981 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(14) Dieldrin (tcm)
13.80min 12.553ug/l
response 292263613

(14) Dieldrin #2 (tcm)
13.53min 12.966ug/l
response 846088506

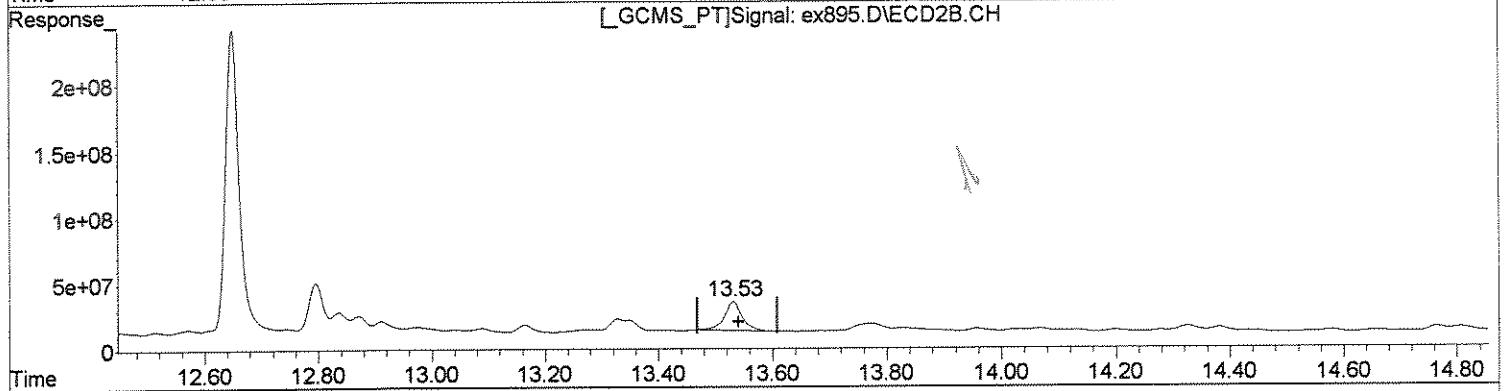
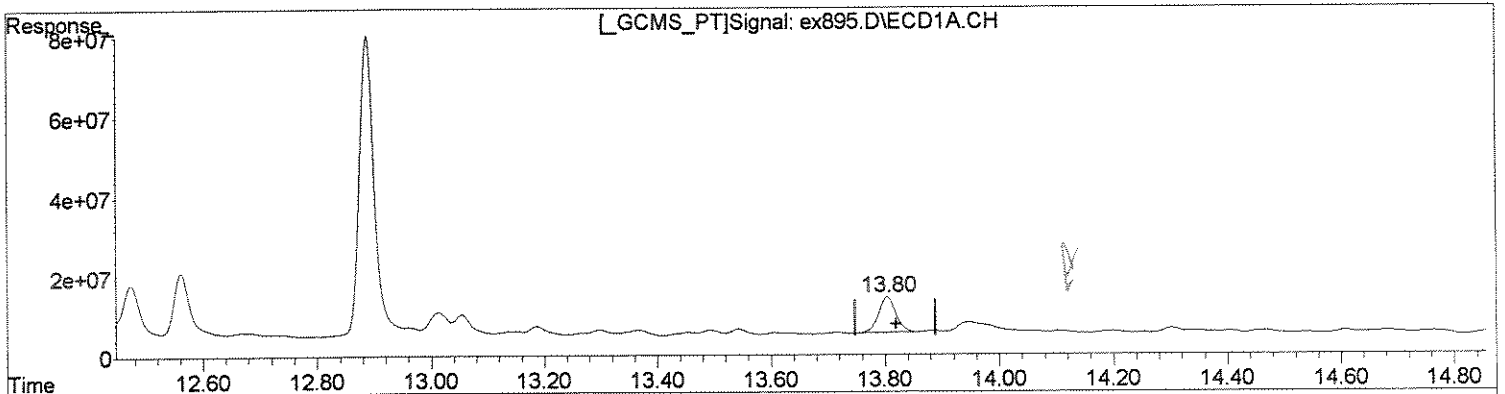
Blank

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:11 am
Operator : M.PEDRO
Sample : 1110981 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(14) Dieldrin (tcm)
13.80min 7.948ug/l m
response 185064557

(14) Dieldrin #2 (tcm)
13.53min 7.116ug/l m
response 464337811

MW 6/27

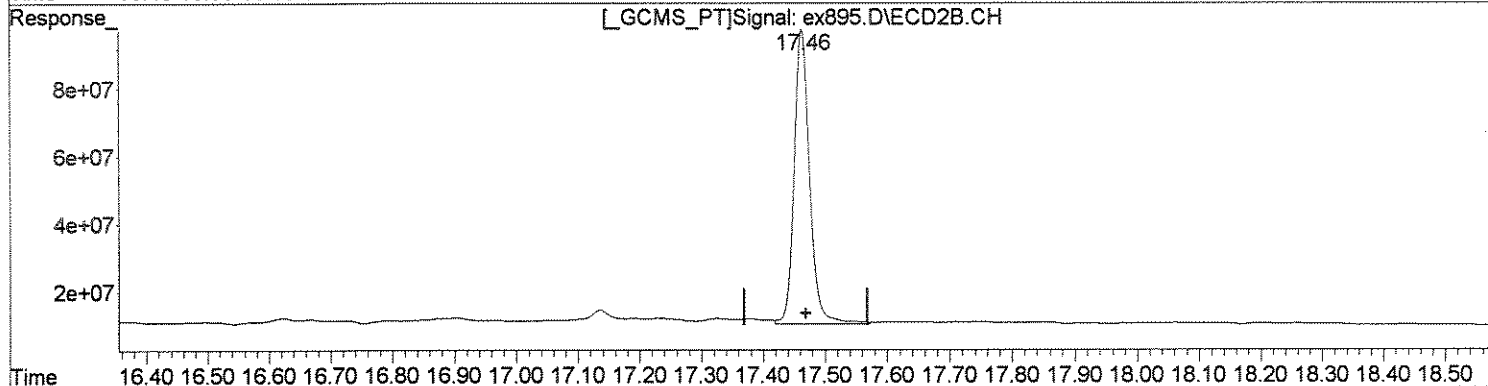
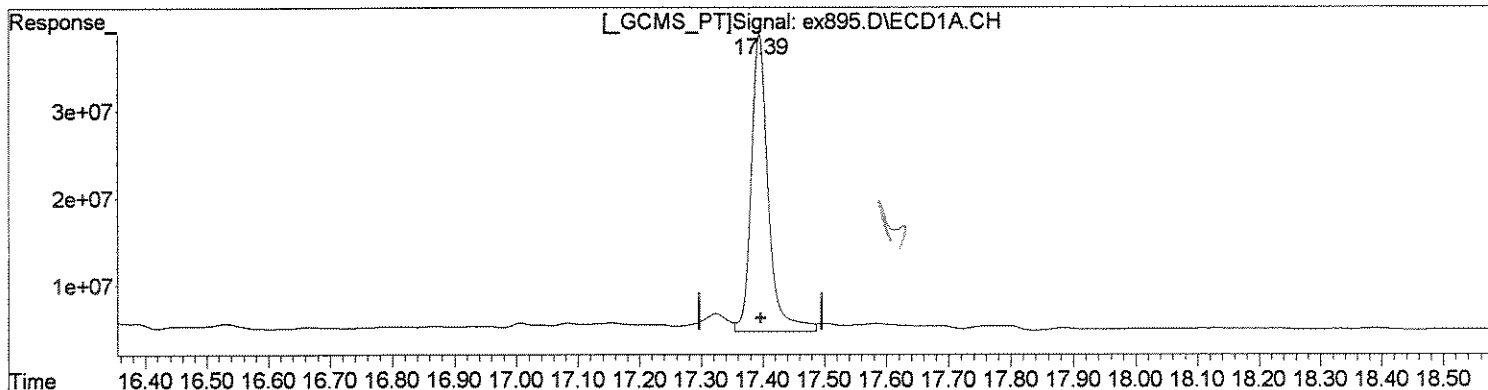
MW 6/27

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:11 am
Operator : M.PEDRO
Sample : 1110981 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
17.39min 38.231ug/l
response 652994687

(25) SURR2,Decachlorobiphenyl #2 (S)
17.46min 34.513ug/l
response 1506532874

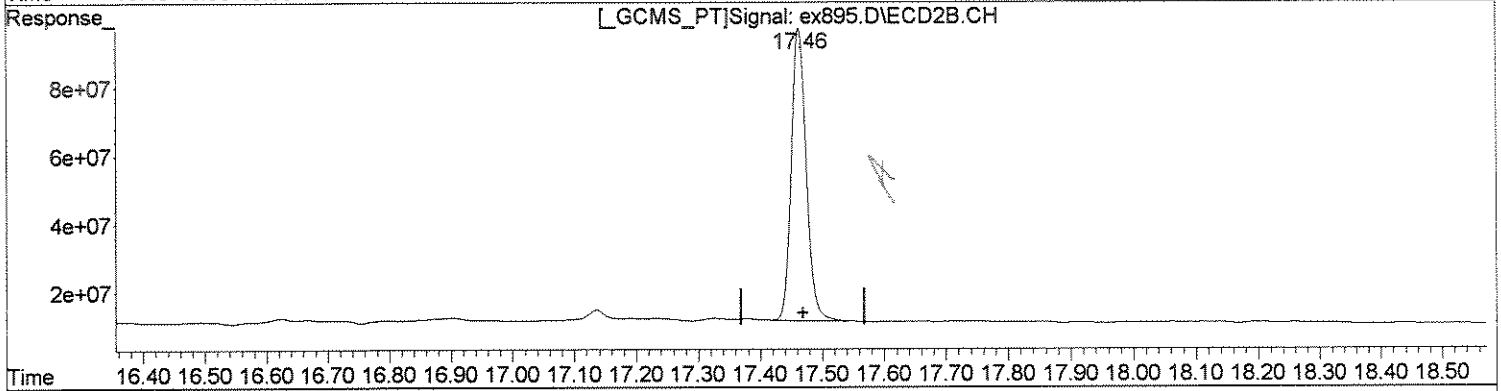
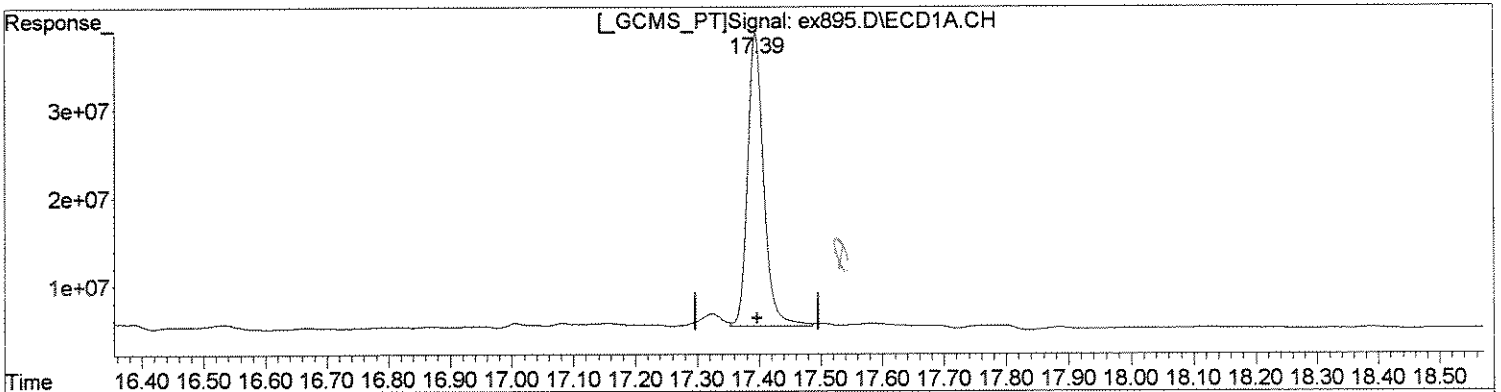
Mark

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:11 am
Operator : M.PEDRO
Sample : 1110981 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
17.39min 35.431ug/l m
response 605171933

(25) SURR2,Decachlorobiphenyl #2 (S)
17.46min 33.046ug/l m
response 1442464574

MP
6/27

ML
6/27

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX895.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 1:11 am
 Operator : M.PEDRO
 Sample : 1110981 1. *212*
 Misc : 06/25/08 106 ensr r44538 8081
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:39 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.03	1574.0E6	4759.1E6	83.575	77.997
Spiked Amount	100.000	Range	30 - 150	Recovery	=	83.58% 78.00%
25) S SURR2,Decachloro	17.39	17.46	653.0E6	1506.5E6	38.231	34.513
Spiked Amount	100.000	Range	30 - 150	Recovery	=	38.23% 34.51%
Target Compounds						
2) TC HEXACHLORO BENZEN	9.96	9.84	106.6E6	344.1E6	3.925	3.911
3) tc alpha-BHC	10.25	10.08	478.5E6	557.7E6	15.934	6.032 #
4) tcm gamma-BHC (L	10.81	0.00	84570608	0	3.077	N.D. #
6) tcm Aldrin	11.97	11.77	321.3E6	742.7E6	13.053	9.910
7) tc beta-BHC	0.00	10.85	0	277.1E6	N.D.	7.768 #
8) tc delta-BHC	11.23	11.24	336.7E6	635.3E6	12.175	7.646 #
9) tc Heptachlor E	12.89	0.00	1564.6E6	0	67.903	N.D. #
10) tc alpha-Endosu	13.45	13.16	58966493	261.3E6	2.862	4.385 #
11) tc gamma-Chlord	0.00	12.87	0	321.0E6	N.D.	4.605 #
12) tc alpha-Chlord	0.00	13.09	0	216.2E6	N.D.	3.255 #
13) tc 4,4'-DDE	13.37	13.33	98239788	684.7E6	4.370	10.505 #
14) tcm Dieldrin	13.80	13.53	292.3E6	846.1E6	12.553	12.966
15) tcm Endrin	0.00	13.96	0	143.9E6	N.D.	2.537 #
16) tc KEPONE	14.26	0.00	26365040	0	4.213	N.D. #
17) tc beta-Endosul	0.00	14.28	0	62758170	N.D.	1.144 #
18) tc 4,4'-DDD	14.26	14.13	26365040	79454199	1.402	1.539
19) tcm 4,4'-DDT	0.00	14.58	0	57646053	N.D.	1.052 #
20) tc Endrin Aldeh	15.13	14.77	24898385	100.3E6	1.685	2.493 #
22) tc Methoxychlor	15.35	15.55	24002081	3692562	2.432	0.153 #
23) tc FAMPHUR	16.07	15.31	33288308	59504972	2.561	1.872 #
24) tc Endrin Keton	0.00	15.93	0	31332627	N.D.	0.579 #
26) L8C Toxaphene	14.61	14.44	48411715	44636967	115.926	27.243 #
27) L8C Toxaphene {2}	14.68	14.72	82532643	24628633	220.123	32.015 #
28) L8C Toxaphene {3}	15.29	14.81	21471410	112.6E6	30.024	68.153 #
29) L8C Toxaphene {4}	16.13	16.08	34623058	33430051	38.952	20.552 #
30) L8C Toxaphene {5}	16.35	16.31	63571464	44379455	94.158	25.480 #

Data Path : J:\ACQUADATA\6890D\DATA\062608\
 Data File : EX895.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 1:11 am
 Operator : M.PEDRO
 Sample : 1110981 1.
 Misc : 06/25/08 106 ensr r44538 8081
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:39 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

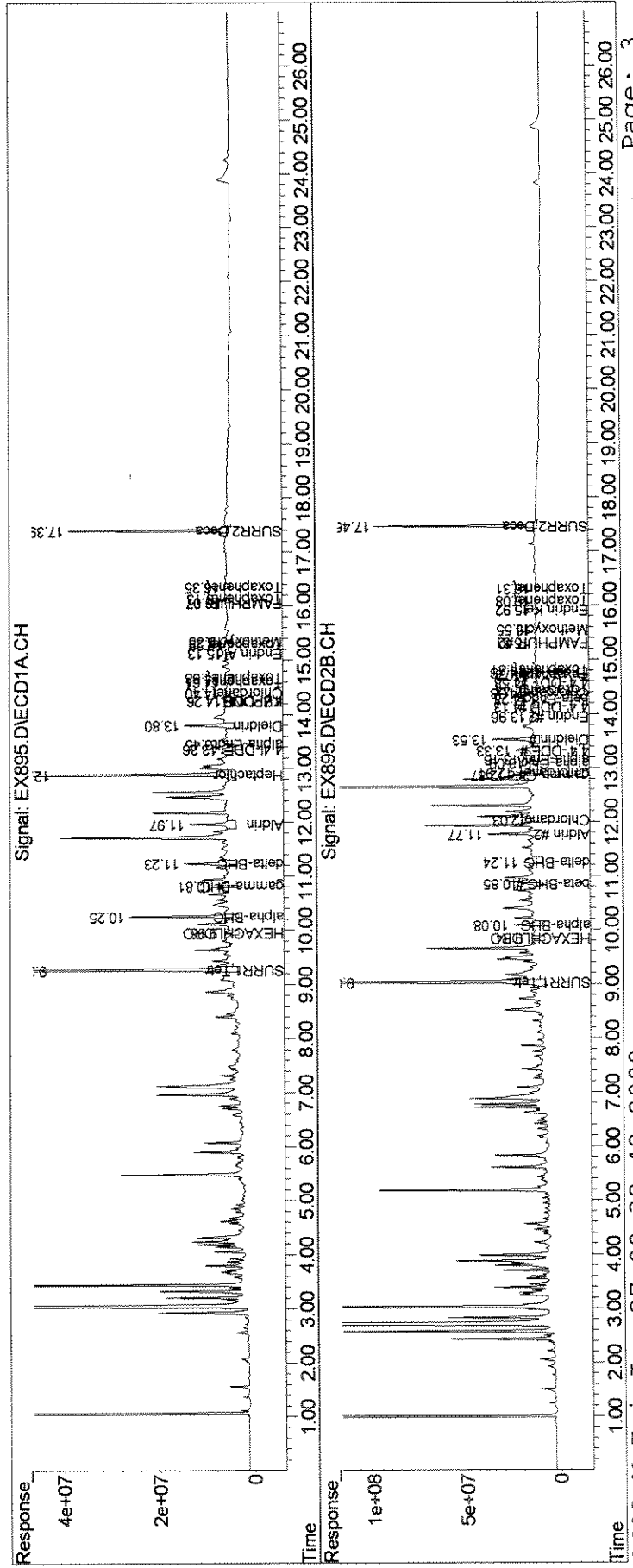
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum Toxaphene			250.6E6	259.7E6	499.183	173.443
Average Toxaphene					99.837	34.689
33) L9C Chlordane {3}	0.00	12.03	0	216.0E6	N.D.	77.789 #
34) L9C Chlordane {4}	0.00	12.91	0	314.6E6	N.D.	39.754 #
35) L9C Chlordane {5}	14.40	14.38	42497366	131.5E6	44.268	43.179
Sum Chlordane			42497366	662.0E6	44.268	160.722
Average Chlordane					44.268	53.574

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX895.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 1:11 am
 Operator : M.PEDRO
 Sample : 1110981 1.
 Misc : 06/25/08 106 ensr r44538 8081
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:39 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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



00631

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66BD

Date Sampled : 06/20/08 12:00 Order #: 1111264 Sample Matrix: WATER
Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/25/08			
DATE ANALYZED : 06/27/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.086	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	0.047 U	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 %)	60	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	83	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex896.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 1:47 am
 Operator : M.PEDRO
 Sample : 1111264 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 10:12:57 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.03	1565.7E6	4651.8E6	83.136	76.240m
Spiked Amount	100.000	Range	30 - 150	Recovery	=	83.14% 76.24%
25) S SURR2,Decachloro	17.40	17.46	1017.0E6	2385.7E6	59.543	54.653
Spiked Amount	100.000	Range	30 - 150	Recovery	=	59.54% 54.65%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	495.9E6	1683.2E6	16.512	18.203
4) tcm gamma-BHC (L	10.79	10.65	172.1E6	551.1E6	6.261m	6.708m
8) tc delta-BHC	11.23	11.25	94258932	172.7E6	3.408	2.079 #
9) tc Heptachlor E	12.89	12.65f	117.9E6	333.4E6	5.119	4.962m
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

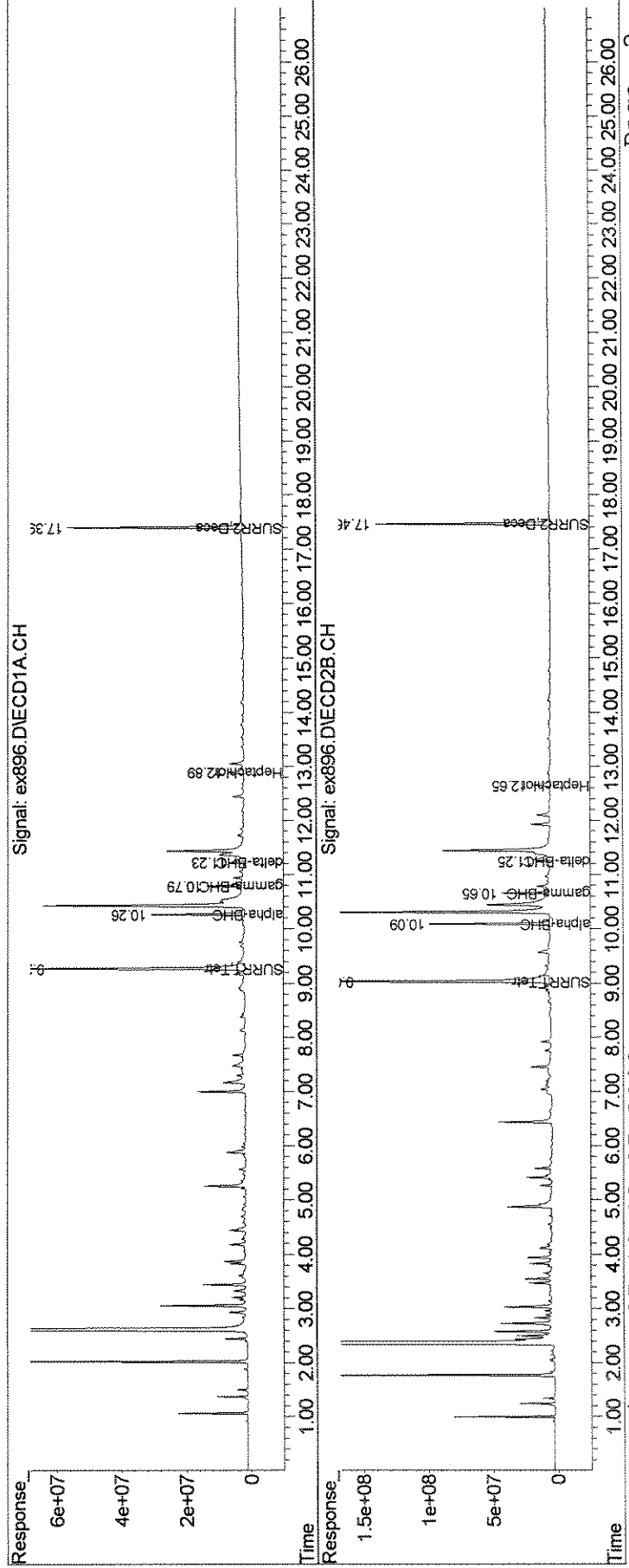
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex896.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 1:47 am
 Operator : M.PEDRO
 Sample : 1111264 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 10:12:57 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

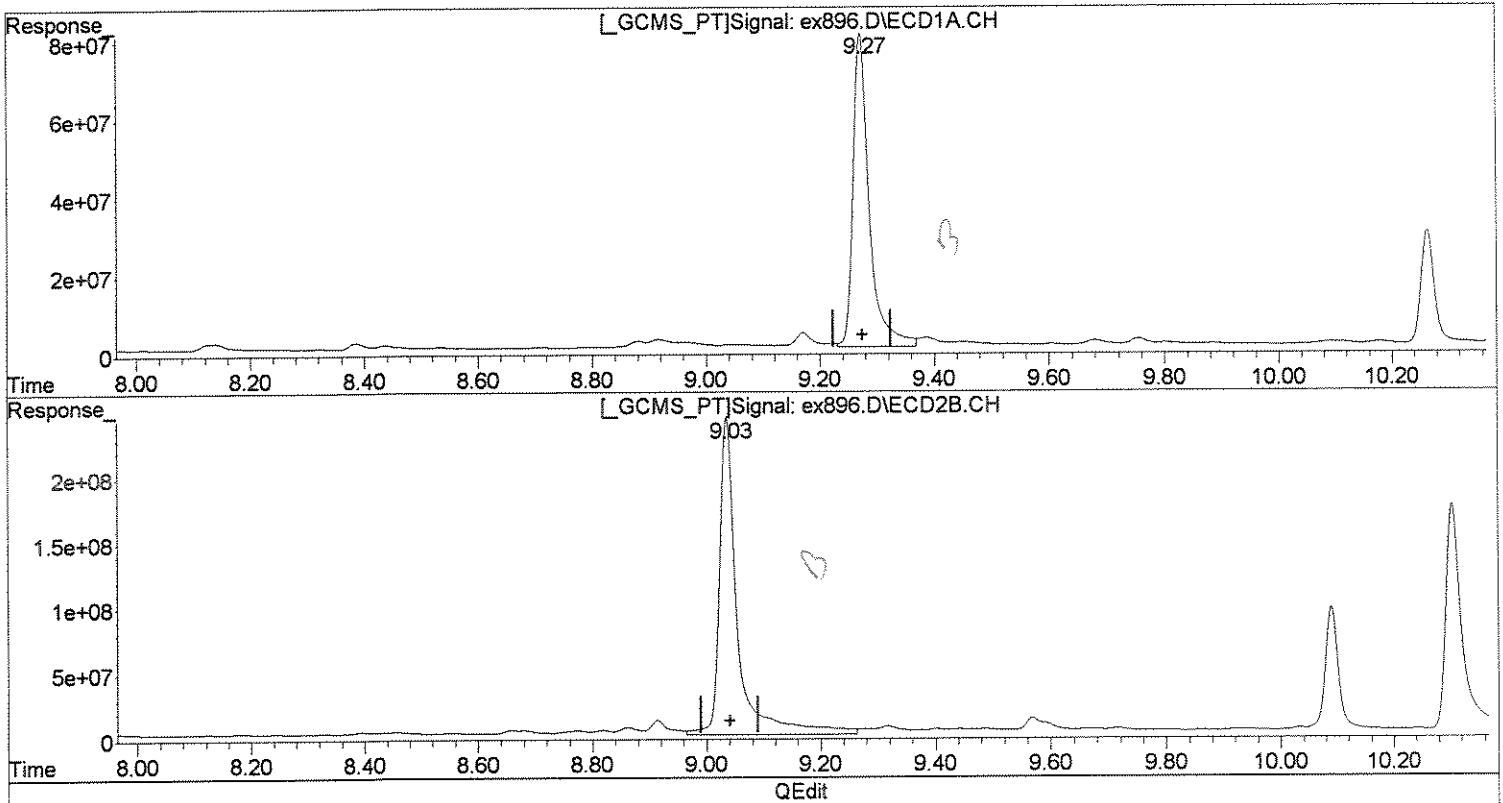


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex896.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:47 am
Operator : M.PEDRO
Sample : 1111264 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(1) SURR1,Tetrac (S)
9.27min 83.136ug/l
response 1565730788

(1) SURR1,Tetrac #2 (S)
9.03min 87.632ug/l
response 5346974184

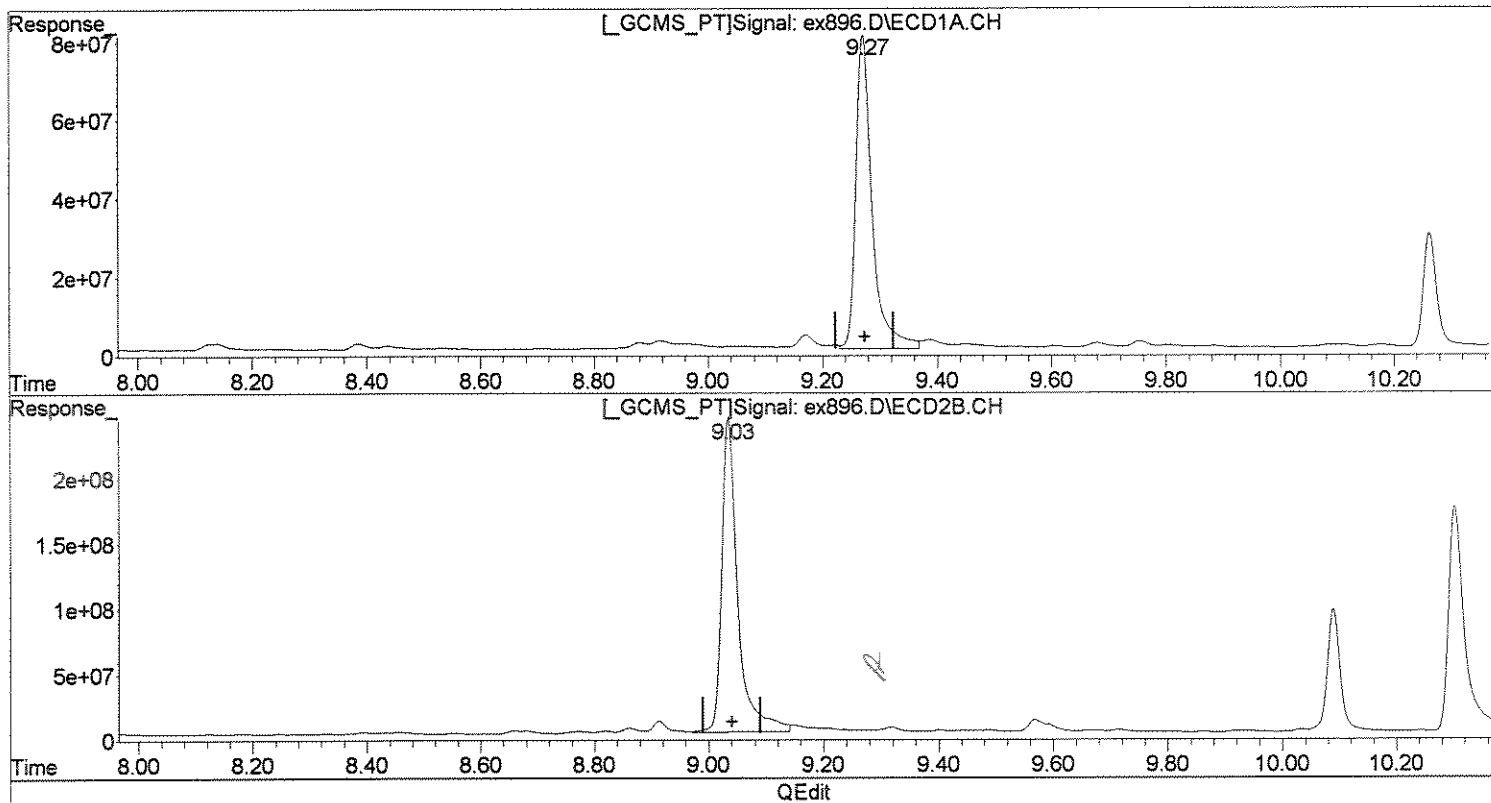
Bipha

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex896.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:47 am
Operator : M.PEDRO
Sample : 1111264 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(1) SURR1,Tetrac (S)
9.27min 83.136ug/l
response 1565730788

(1) SURR1,Tetrac #2 (S)
9.03min 76.240ug/l m
response 4651833440

MW 417
MW 417

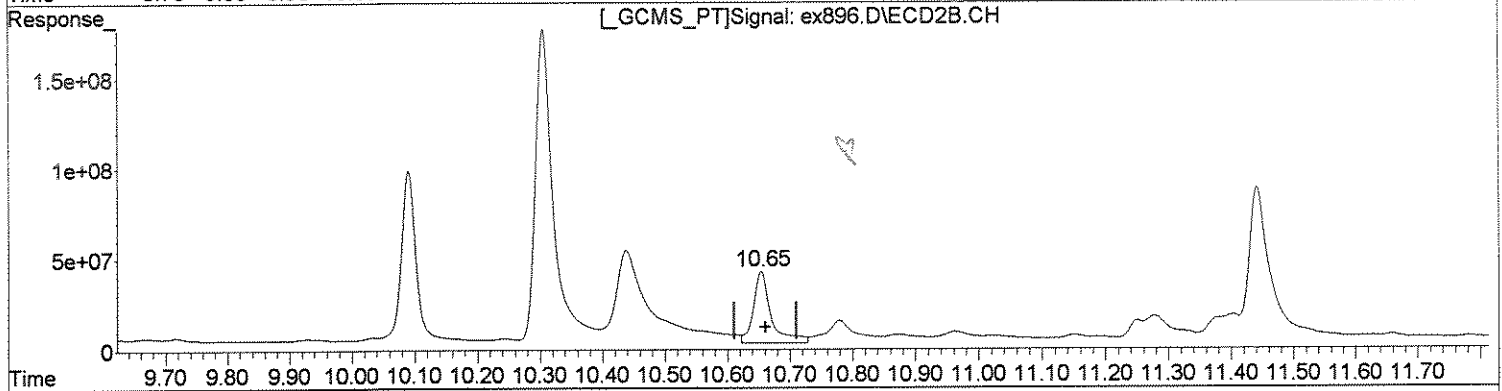
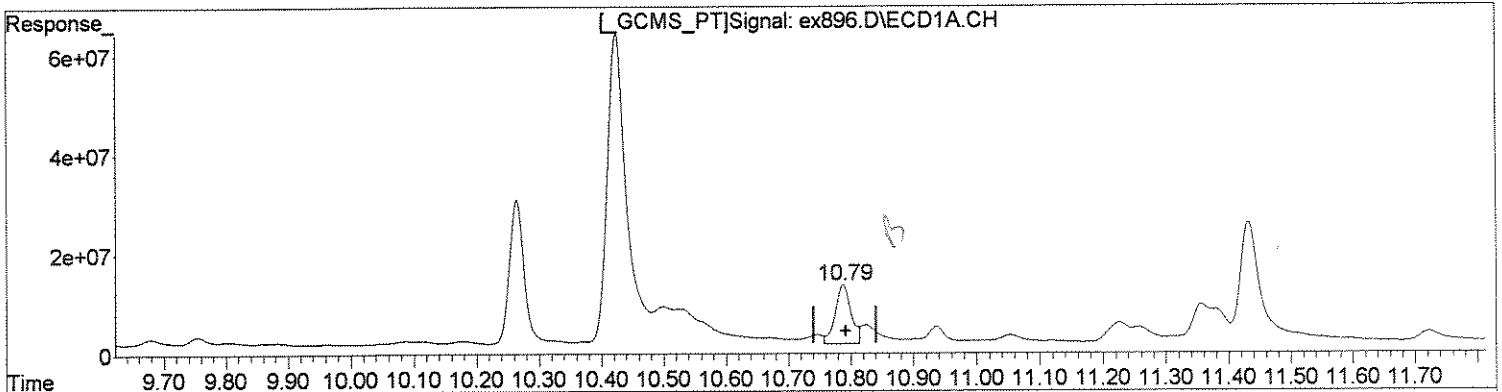
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUADATA\6890D\DATA\062608\
Data File : ex896.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:47 am
Operator : M.PEDRO
Sample : 1111264 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:44 2008
Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(4) gamma-BHC (L (tcm)
10.79min 7.472ug/l
response 205392589

(4) gamma-BHC (L #2 (tcm)
10.65min 9.316ug/l
response 765389398

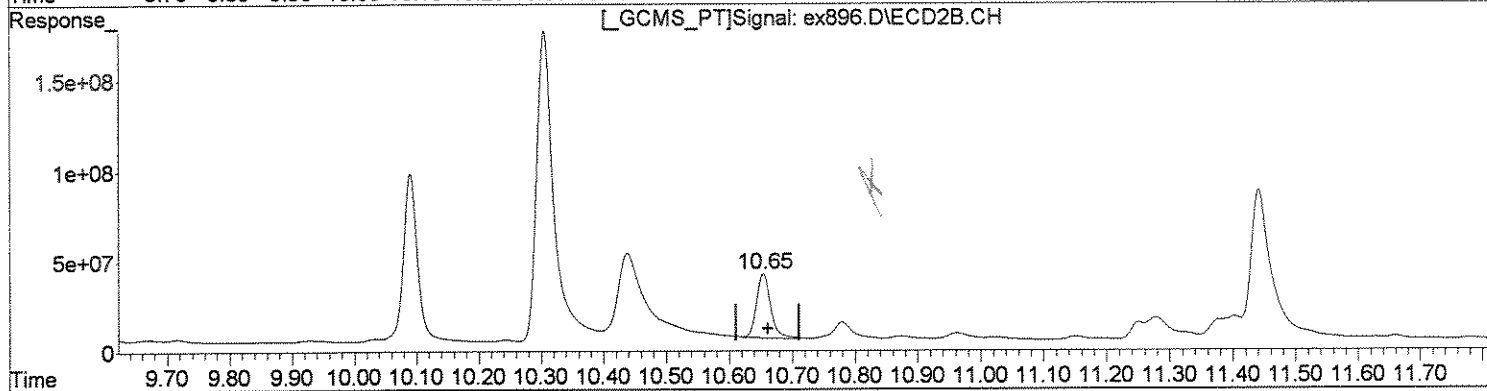
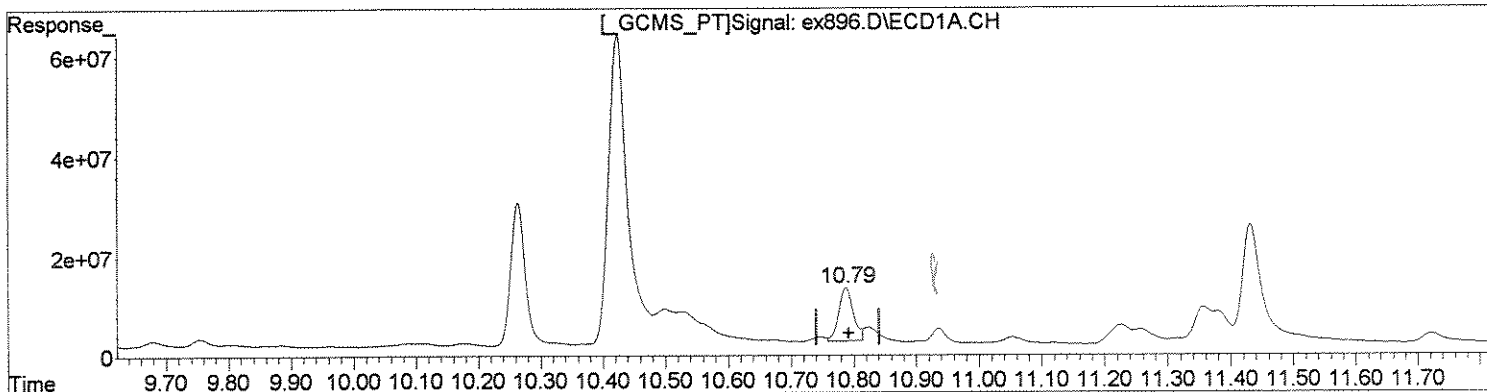
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex896.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:47 am
Operator : M.PEDRO
Sample : 1111264 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(4) gamma-BHC (L (tcm)
10.79min 6.261ug/l m
response 172102184

(4) gamma-BHC (L #2 (tcm)
10.65min 6.708ug/l m
response 551107299

MP
6/27

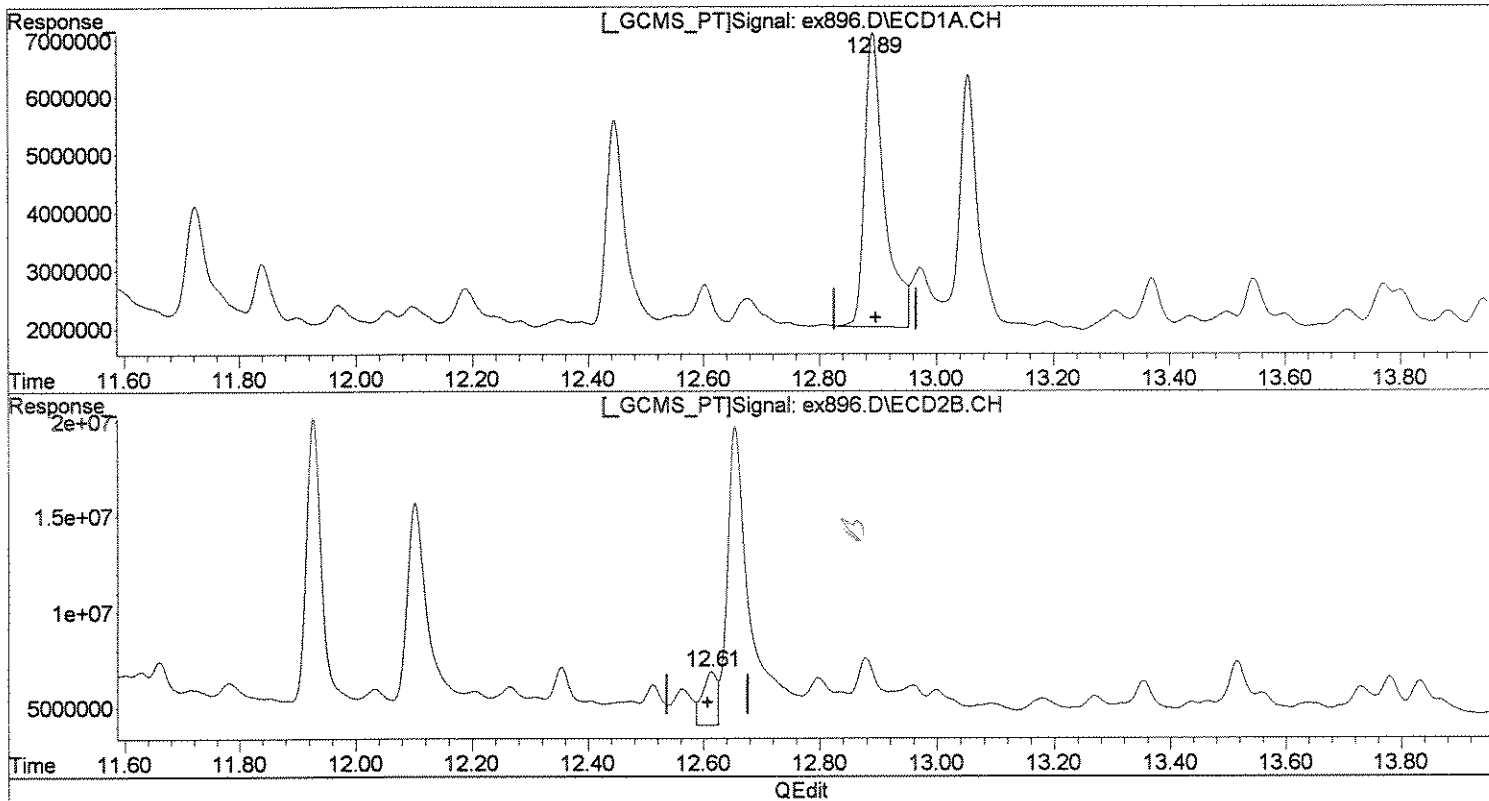
WU
6/27

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex896.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:47 am
Operator : M.PEDRO
Sample : 1111264 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
12.89min 5.119ug/l
response 117944673

(9) Heptachlor E #2 (tc)
12.61min 0.724ug/l
response 48664586

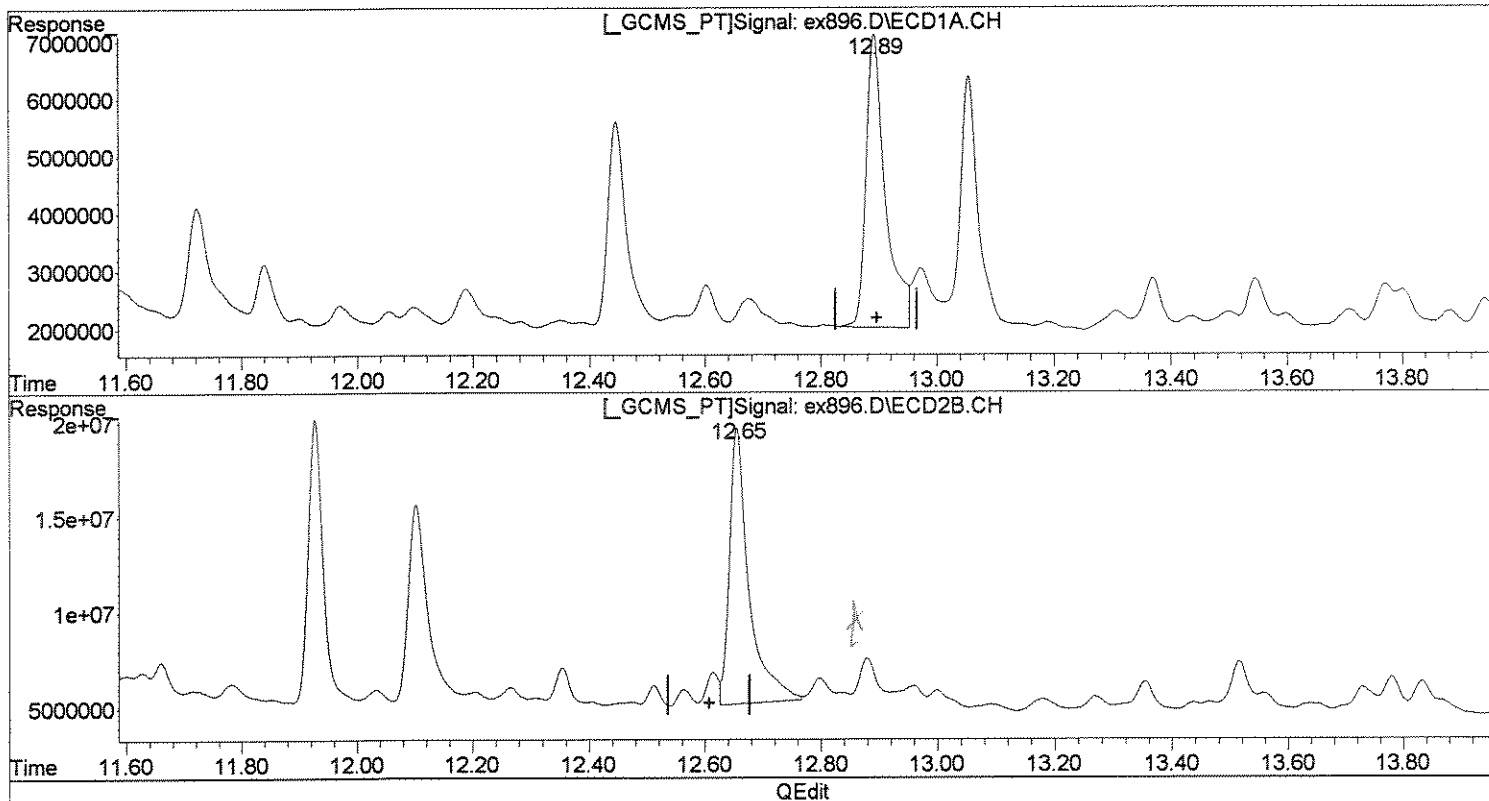
PWL

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex896.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 1:47 am
Operator : M.PEDRO
Sample : 1111264 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
12.89min 5.119ug/l
response 117944673

6/27

11/27

(9) Heptachlor E #2 (tc)
12.65min 4.962ug/l m
response 333420611

(+) = Expected Retention Time

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX896.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 1:47 am
 Operator : M.PEDRO
 Sample : 1111264 1. *212*
 Misc : 06/25/08 106 ensr r44538 8081
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.03	1565.7E6	5347.0E6	83.136	87.632
Spiked Amount	100.000	Range 30 - 150	Recovery =		83.14%	87.63%
25) S SURR2,Decachloro	17.40	17.46	1017.0E6	2385.7E6	59.543	54.653
Spiked Amount	100.000	Range 30 - 150	Recovery =		59.54%	54.65%
Target Compounds						
2) TC HEXACHLOROBENZEN	0.00	9.86	0	66106209	N.D.	0.751 #
3) tc alpha-BHC	10.26	10.09	495.9E6	1683.2E6	16.512	18.203
4) tcm gamma-BHC (L	10.79	10.65	205.4E6	765.4E6	7.472	9.316
6) tcm Aldrin	11.97	11.78	11837665	103.3E6	0.481	1.379 #
8) tc delta-BHC	11.23	11.25	94258932	172.7E6	3.408	2.079 #
9) tc Heptachlor E	12.89	12.61	117.9E6	48664586	5.119	0.724 #
10) tc alpha-Endosu	0.00	13.18	0	54920947	N.D.	0.922 #
11) tc gamma-Chlord	0.00	12.88	0	94821768	N.D.	1.360 #
12) tc alpha-Chlord	0.00	13.09	0	43780386	N.D.	0.659 #
13) tc 4,4'-DDE	13.37	13.35	20191182	77413267	0.898	1.188 #
14) tcm Dieldrin	13.80	13.56	15050440	39690842	0.646	0.608
15) tcm Endrin	14.18	13.98	38713829	19226755	1.856	0.339 #
16) tc KEPONE	0.00	14.17	0	8547096	N.D.	0.500 #
17) tc beta-Endosul	0.00	14.28	0	31202601	N.D.	0.569 #
19) tcm 4,4'-DDT	0.00	14.58	0	46510892	N.D.	0.849 #
20) tc Endrin Aldeh	0.00	14.77	0	44212057	N.D.	1.099 #
22) tc Methoxychlor	0.00	15.56	0	7328710	N.D.	0.304 #
23) tc FAMPHUR	16.09	15.33	2898950	11341992	0.223	0.357 #
24) tc Endrin Keton	16.16	0.00	3630956	0	0.174	N.D. #
26) L8C Toxaphene	14.61	14.42	14198171	34957012	33.999	21.335 #
27) L8C Toxaphene {2}	0.00	14.70	0	15313026	N.D.	19.905 #
28) L8C Toxaphene {3}	0.00	14.80	0	30670163	N.D.	18.565 #
29) L8C Toxaphene {4}	16.16	16.09	3630956	13055239	4.085	8.026 #
30) L8C Toxaphene {5}	16.34	16.32	12061974	7427452	17.865	4.264 #
Sum Toxaphene			29891101	101.4E6	55.949	72.096
Average Toxaphene					18.650	14.419

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX896.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 1:47 am
 Operator : M.PEDRO
 Sample : 1111264 1.
 Misc : 06/25/08 106 ensr r44538 8081
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

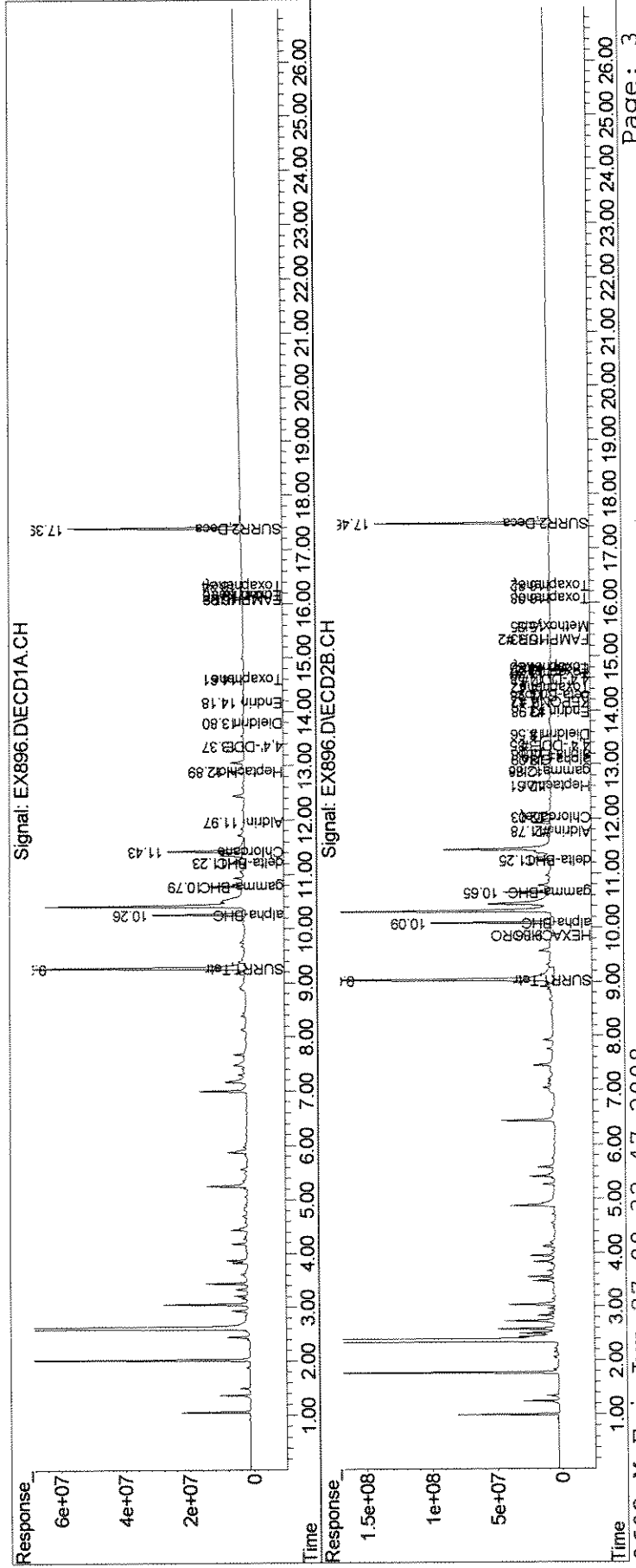
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) L9C Chlordane	11.43	0.00	638.6E6	0	834.469	N.D. #
33) L9C Chlordane{3}	0.00	12.03	0	64185209	N.D.	23.119 #
Sum Chlordane			638.6E6	64185209	834.469	23.119
Average Chlordane					834.469	23.119

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX896.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 1:47 am
 Operator : M.PEDRO
 Sample : 1111264 1.
 Misc : 06/25/08 106 ensr r44538 8081
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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



00543

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-65B

Date Sampled : 06/20/08 12:00 Order #: 1111265 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	1.00		
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.41 E	UG/L
BETA-BHC	0.047	0.047 U	UG/L
GAMMA-BHC	0.047	0.060	UG/L
DELTA-BHC	0.047	0.23	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	0.047 U	UG/L
HEXACHLORO BENZENE	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 %)	104	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	76	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex915.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 2:16 pm
 Operator : M.PEDRO
 Sample : 1111265 1.0
 Misc : 06/27/08 212 ensr 8081 r44538
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:46:41 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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	9.27	9.04	1439.3E6	4262.4E6	76.424	69.858
Spiked Amount	100.000	Range	30 - 150	Recovery	= 76.42%	69.86%
25) S SURR2,Decachloro	17.39	17.46	1769.8E6	4295.4E6	103.615	98.405
Spiked Amount	100.000	Range	30 - 150	Recovery	= 103.61%	98.41%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	2594.3E6	7575.0E6	86.389m	81.921m
4) tcm gamma-BHC (L	10.79	10.65	352.1E6	1012.1E6	12.809m	12.319m
8) tc delta-BHC	11.23	11.25	1365.9E6	3967.0E6	49.389	47.741
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

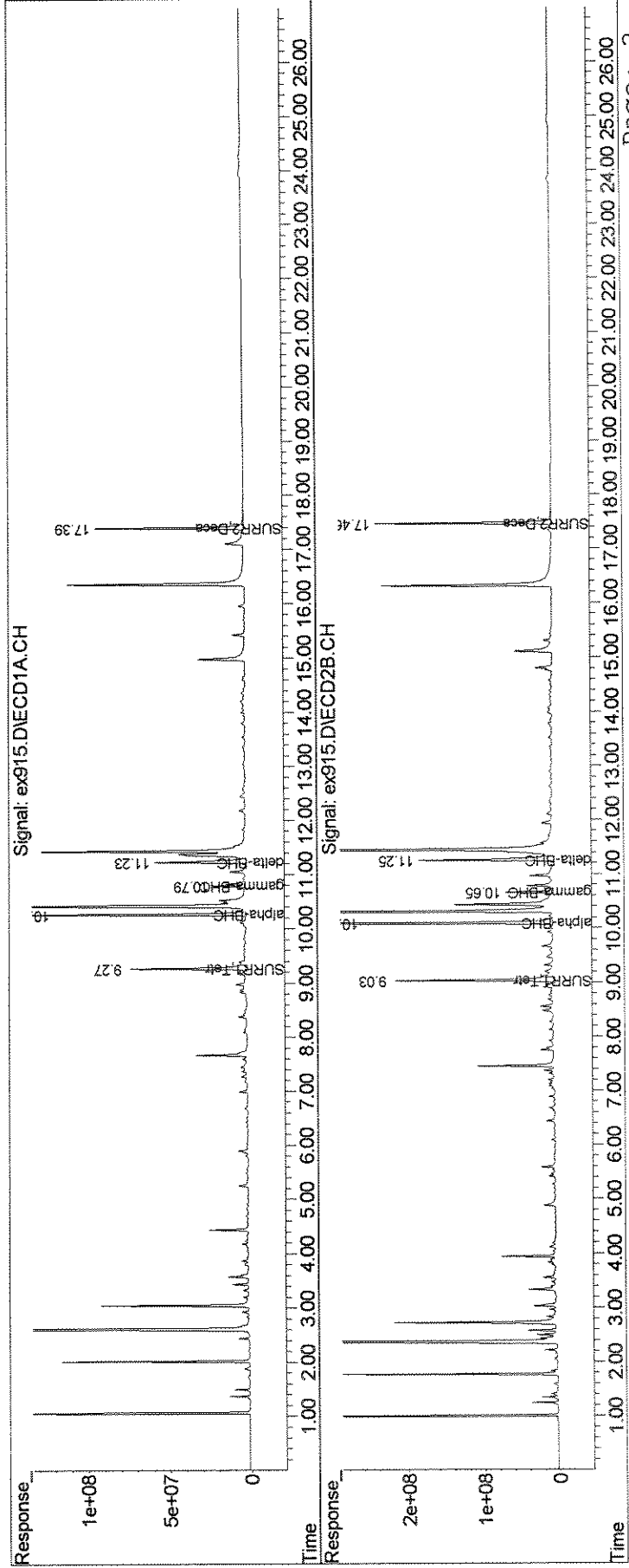
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQDATA\6890D\DATA\063008\
 Data File : ex915.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 2:16 pm
 Operator : M.PEDRO
 Sample : 1111265 1.0
 Misc : 06/27/08 212 ensr 8081 r44538
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:46:41 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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



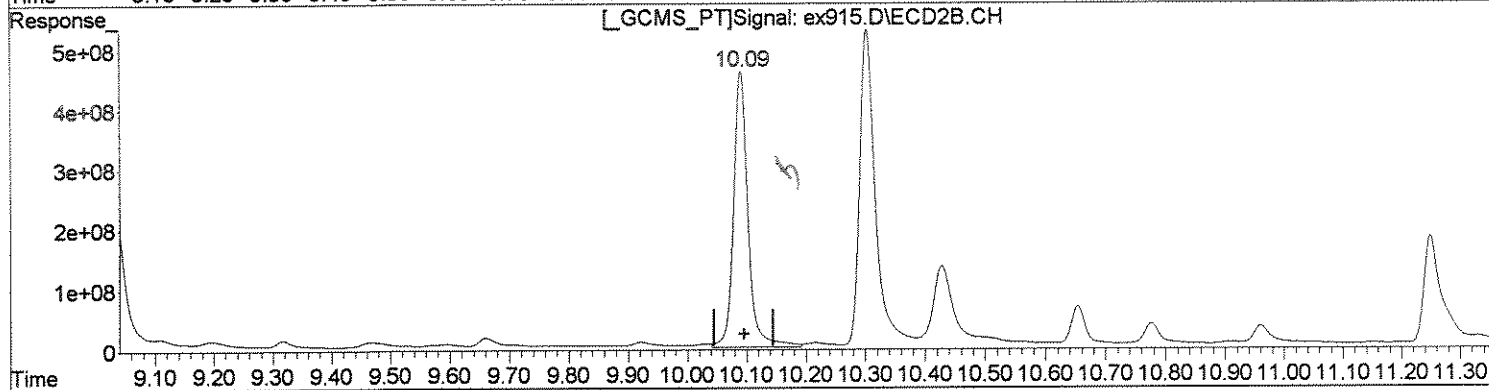
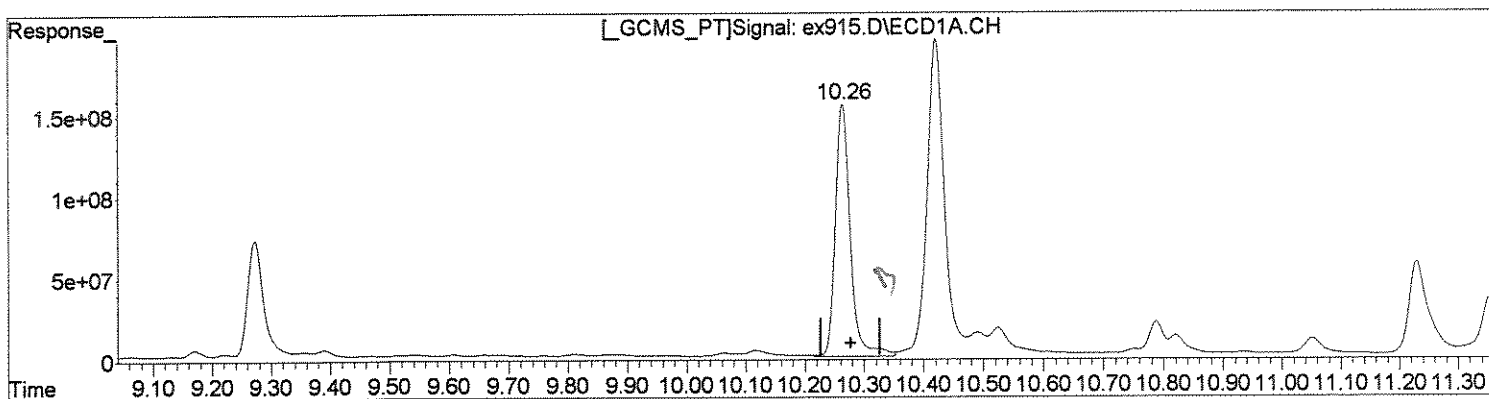
80810602.M

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 2:16 pm
Operator : M.PEDRO
Sample : 1111265 1.0
Misc : 06/27/08 212 ensr 8081 r44538
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(3) alpha-BHC (tc)
10.26min 90.664ug/l
response 2722705858

(3) alpha-BHC #2 (tc)
10.09min 84.253ug/l
response 7790636327

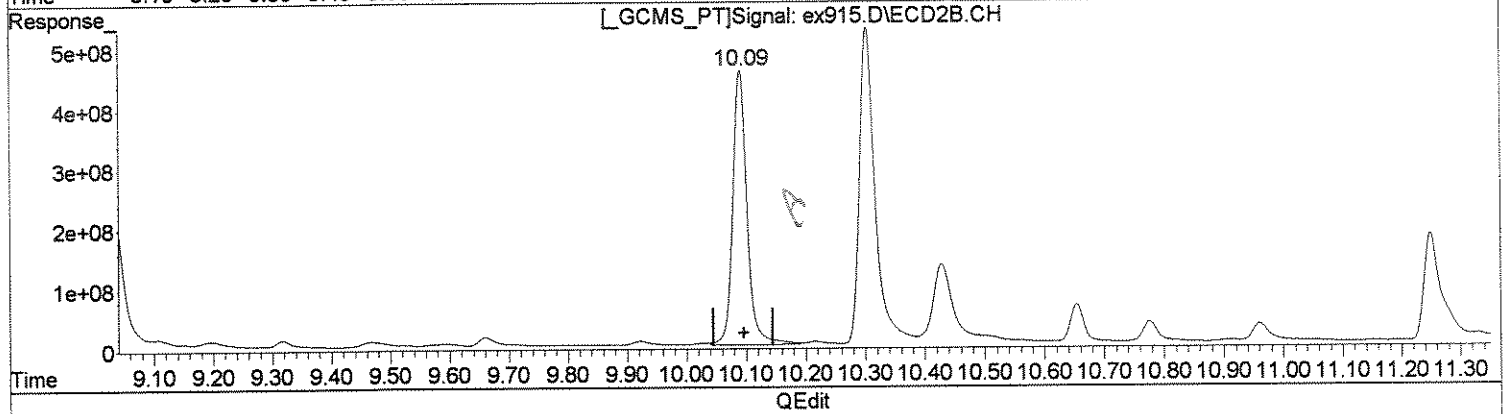
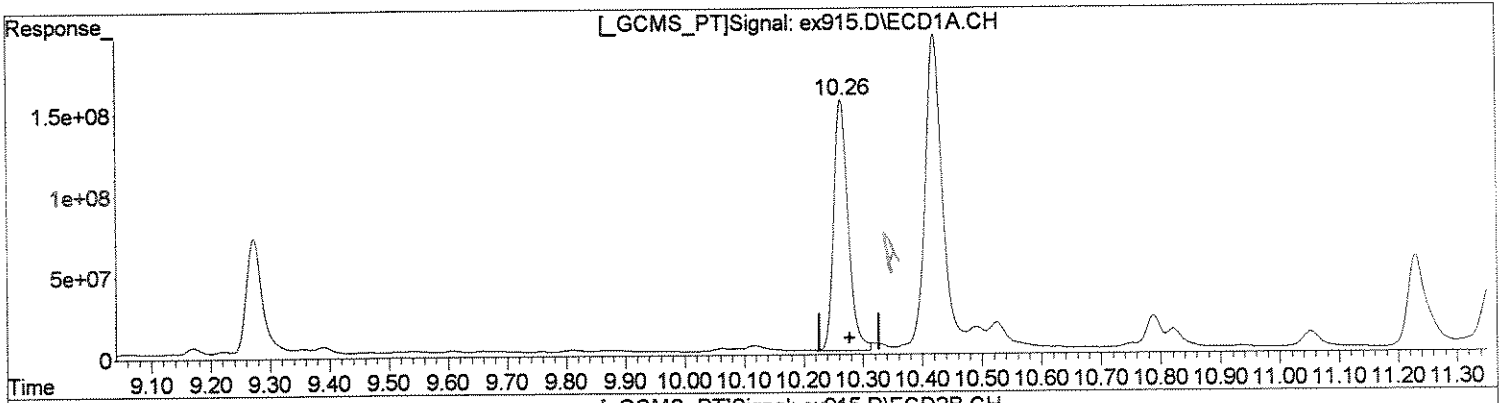
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 2:16 pm
Operator : M.PEDRO
Sample : 1111265 1.0
Misc : 06/27/08 212 ensr 8081 r44538
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(3) alpha-BHC (tc)
10.26min 86.389ug/l m
response 2594341544

(3) alpha-BHC #2 (tc)
10.09min 81.921ug/l m
response 7575008369

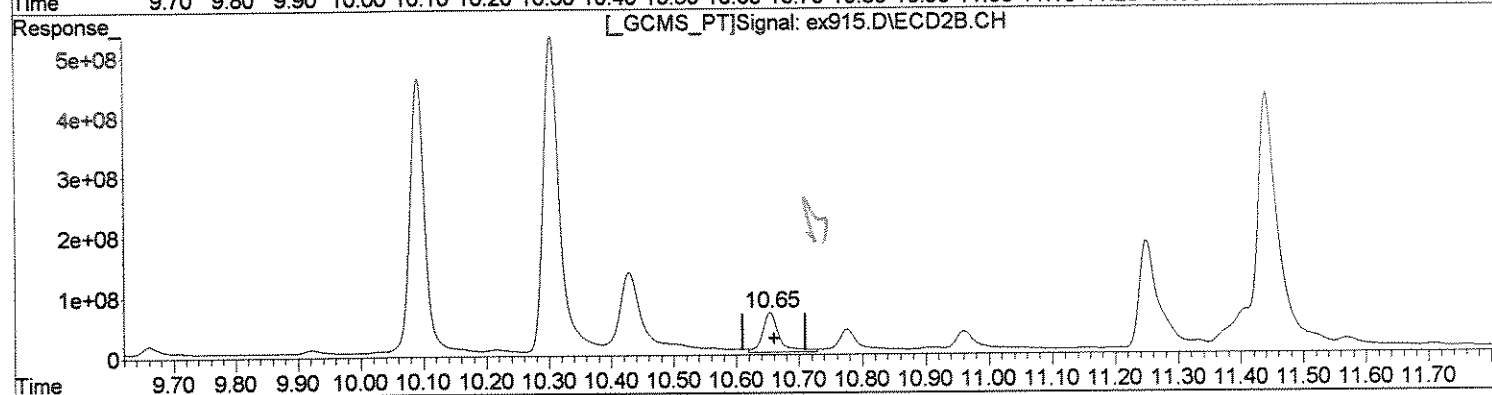
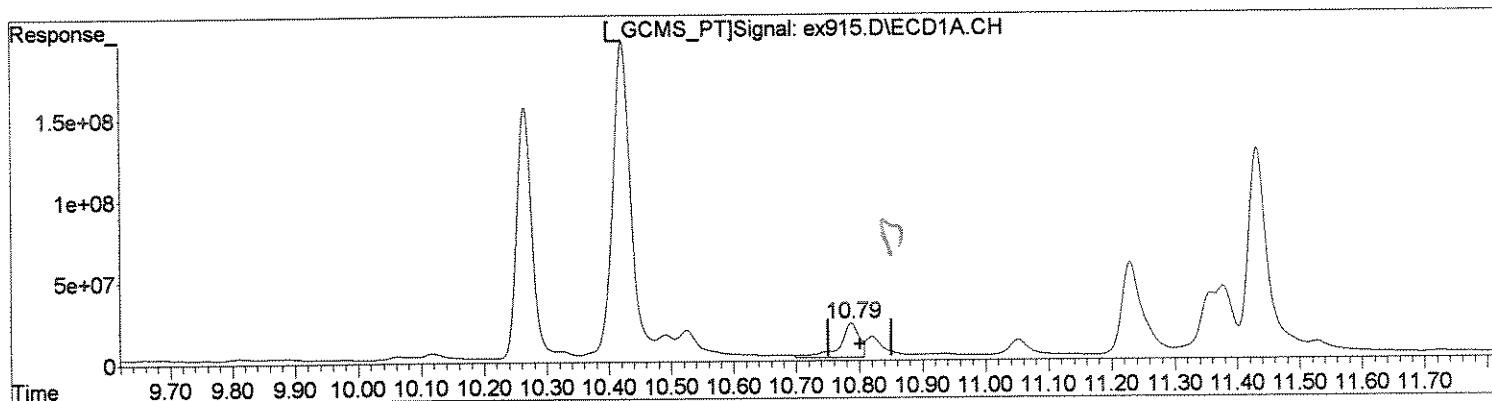
WMP
7/1
STAN
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 2:16 pm
Operator : M.PEDRO
Sample : 1111265 1.0
Misc : 06/27/08 212 ensr 8081 r44538
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(4) gamma-BHC (L (tcm))
10.79min 16.532ug/l
response 454447862

(4) gamma-BHC (L #2 (tcm))
10.65min 14.975ug/l
response 1230333001

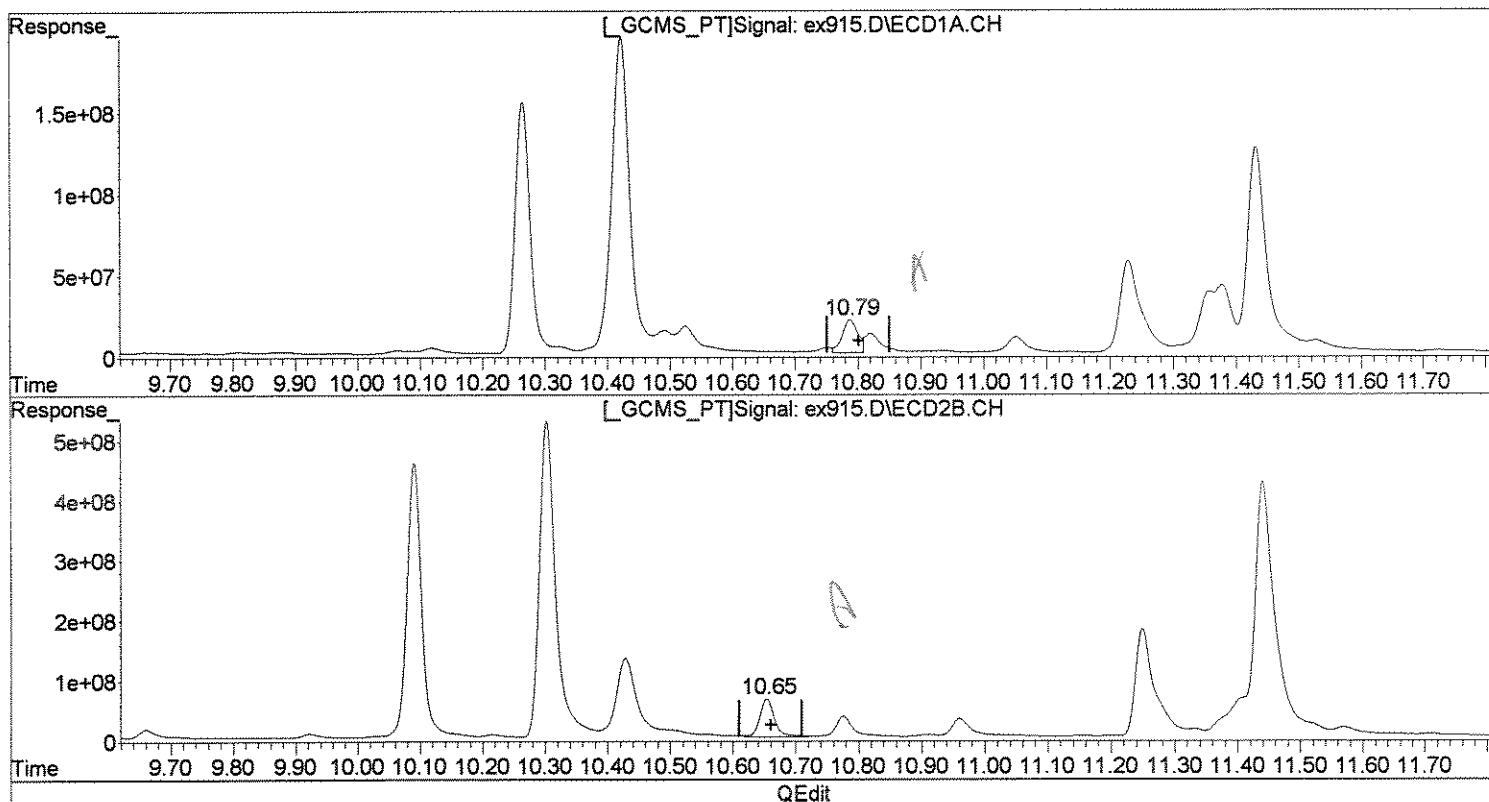
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 2:16 pm
Operator : M.PEDRO
Sample : 1111265 1.0
Misc : 06/27/08 212 ensr 8081 r44538
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(4) gamma-BHC (L (tcm)
10.79min 12.809ug/l m
response 352107915

(4) gamma-BHC (L #2 (tcm)
10.65min 12.319ug/l m
response 1012136282

MW 7/1 *ML 7/1*

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX915.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 2:16 pm
 Operator : M.PEDRO
 Sample : 1111265 1.0
 Misc : 06/27/08 212 ensr 8081 r44538
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:46 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1439.3E6	4262.4E6	76.424	69.858
Spiked Amount	100.000	Range	30 - 150	Recovery	= 76.42%	69.86%
25) S SURR2,Decachloro	17.39	17.46	1769.8E6	4295.4E6	103.615	98.405
Spiked Amount	100.000	Range	30 - 150	Recovery	= 103.61%	98.41%
Target Compounds						
2) TC HEXACHLOROBENZEN	0.00	9.85	0	99056887	N.D.	1.126 #
3) tc alpha-BHC	10.26	10.09	2722.7E6	7790.6E6	90.664	84.253
4) tcm gamma-BHC (L	10.79	10.65	454.4E6	1230.3E6	16.532	14.975
5) tcm Heptachlor	11.53	11.33	360.4E6	241.3E6	13.395	3.021 #
6) tcm Aldrin	0.00	11.76	0	145.9E6	N.D.	1.947 #
8) tc delta-BHC	11.23	11.25	1365.9E6	3967.0E6	49.389	47.741
9) tc Heptachlor E	12.90	12.62	14966840	272.0E6	0.650	4.047 #
10) tc alpha-Endosu	0.00	13.16	0	144.6E6	N.D.	2.427 #
11) tc gamma-Chlord	13.08	12.88	34304746	213.6E6	1.505	3.063 #
12) tc alpha-Chlord	0.00	13.10	0	89375684	N.D.	1.346 #
13) tc 4,4'-DDE	13.37	13.35	50844906	125.1E6	2.262	1.920
14) tcm Dieldrin	13.81	13.52	75419815	207.2E6	3.239	3.175
15) tcm Endrin	0.00	13.98	0	207.0E6	N.D.	3.650 #
16) tc KEPONE	0.00	14.17	0	99244724	N.D.	5.801 #
17) tc beta-Endosul	0.00	14.28	0	68942212	N.D.	1.257 #
19) tcm 4,4'-DDT	14.65	14.58	31292278	140.3E6	1.562	2.559 #
20) tc Endrin Aldeh	0.00	14.76	0	150.7E6	N.D.	3.746 #
21) tc Endosulfan S	15.78	0.00	11879127	0	0.655	N.D. #
23) tc FAMPHUR	16.07	15.30	7243155	306.4E6	0.557	9.639 #
24) tc Endrin Keton	0.00	15.92	0	12321171	N.D.	0.228 #
26) L8C Toxaphene	14.61	0.00	35038651	0	83.903	N.D. #
27) L8C Toxaphene {2}	0.00	14.70	0	27342820	N.D.	35.543 #
28) L8C Toxaphene {3}	0.00	14.80	0	459.9E6	N.D.	278.385 #
30) L8C Toxaphene {5}	16.35	16.31	2783.4E6	6164.0E6	4122.545	3539.005
Sum Toxaphene			2818.4E6	6651.3E6	4206.448	3852.933
Average Toxaphene					2103.224	1284.311

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX915.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 2:16 pm
 Operator : M.PEDRO
 Sample : 1111265 1.0
 Misc : 06/27/08 212 ensr 8081 r44538
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:46 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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	11.43	0.00	2828.5E6	0	3696.217	N.D. #
32) L9C Chlordane{2}	0.00	11.33	0	241.3E6	N.D.	70.537 #
33) L9C Chlordane{3}	0.00	12.03	0	107.1E6	N.D.	38.594 #
34) L9C Chlordane{4}	13.08	12.88	34304746	213.6E6	12.534	26.991 #
35) L9C Chlordane{5}	0.00	14.38	0	145.4E6	N.D.	47.739 #
Sum Chlordane			2862.8E6	707.4E6	3708.752	183.861
Average Chlordane					1854.376	45.965

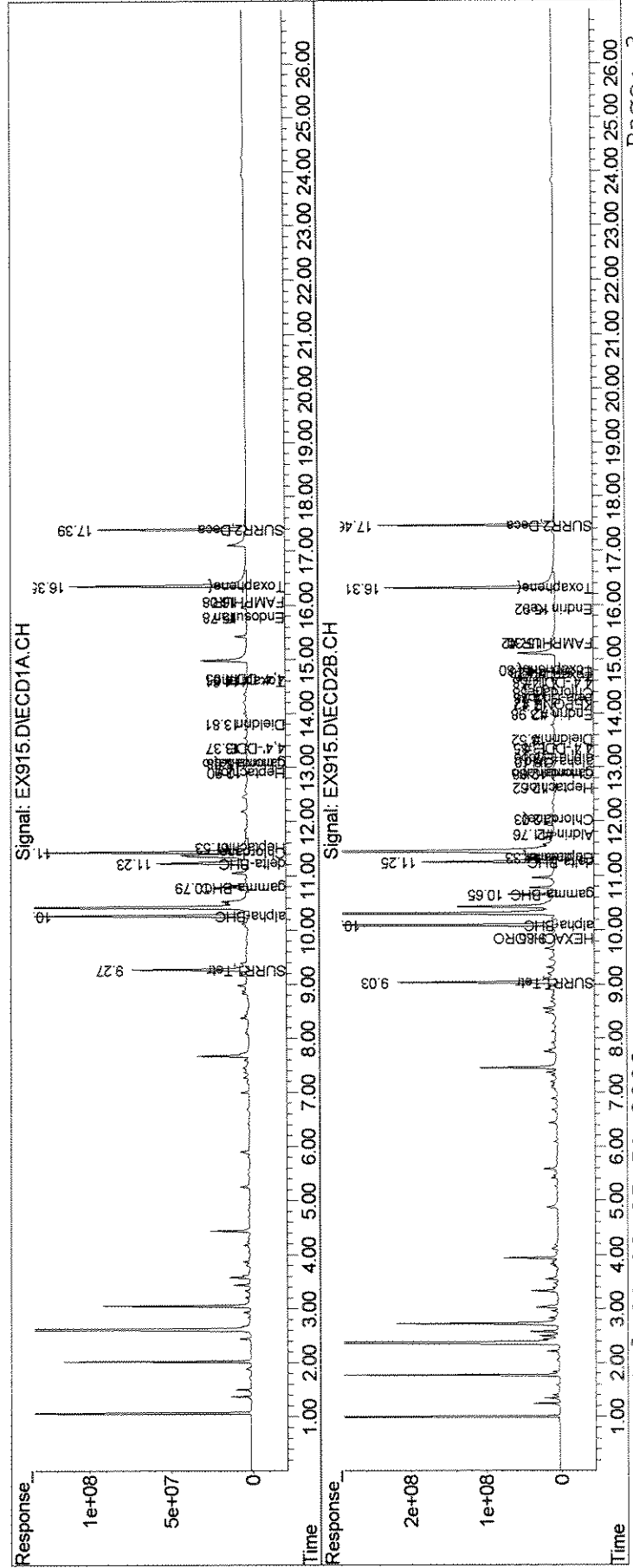
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 2:16 pm
Operator : M.PEDRO
Sample : 1111265 1.0
Misc : 06/27/08 212 ensr 8081 r44538
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



00653

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 08/05/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-65B

Date Sampled : 06/20/08 12:00 Order #: 1111265 Sample Matrix: WATER
Date Received: 06/21/08 Submission #: R2844538 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 07/11/08			
ANALYTICAL DILUTION: 2.00			
ALDRIN	0.047	0.094 U	UG/L
ALPHA-BHC	0.047	0.52 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	0.32 D	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	0.094 U	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 %)	130	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	94	%

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey068.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 11:20 am
 Operator : M.PEDRO
 Sample : 1111265 2.0
 Misc : 06/27/08 212 ensr r44538 8081
 ALS Vial : 35 Sample Multiplier: 1

RB

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:12:23 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	950.8E6	3599.1E6	47.114	44.477
Spiked Amount	100.000	Range 30 - 150	Recovery =		47.11%	44.48%
25) S SURR2,Decachloro	17.61	17.86	1046.7E6	3574.6E6	59.932	64.904
Spiked Amount	100.000	Range 30 - 150	Recovery =		59.93%	64.90%

*40
7/14*

Target Compounds

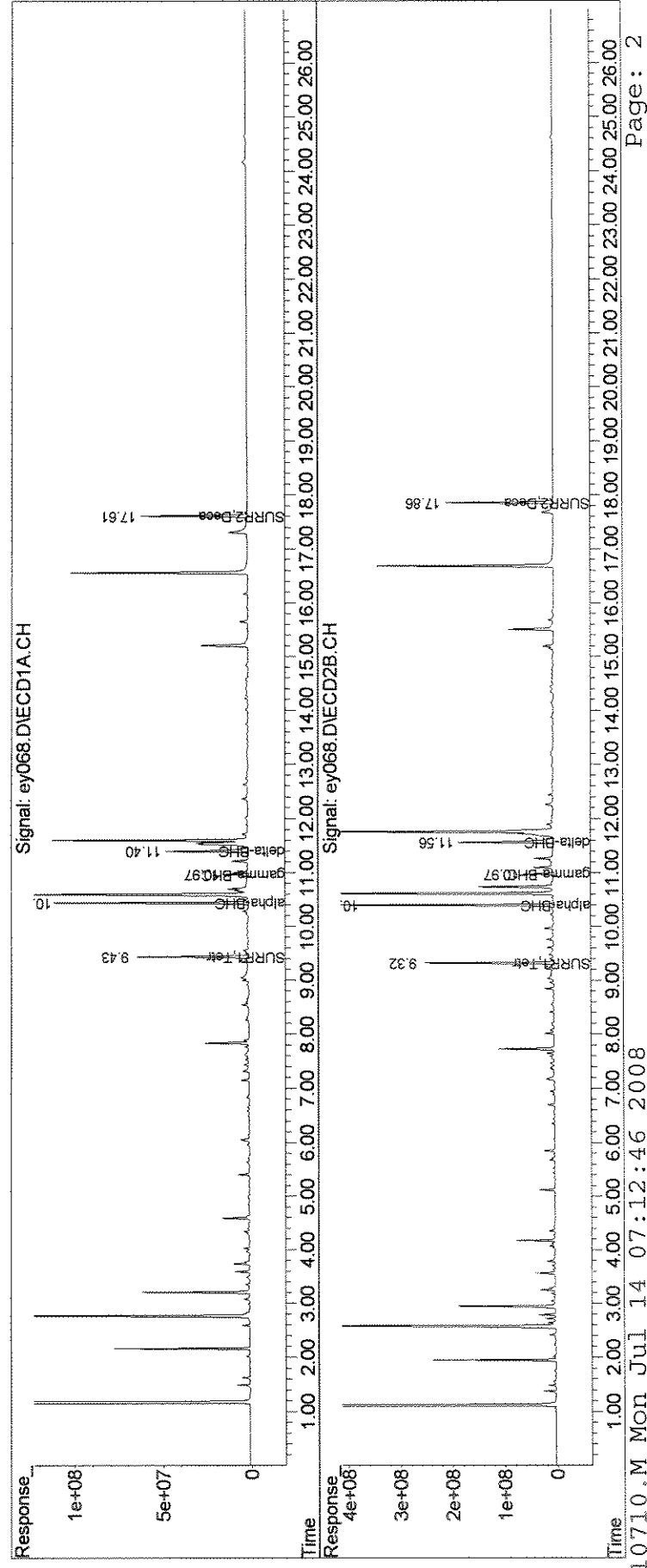
3) tc alpha-BHC	10.44	10.40	1690.0E6	6301.0E6	54.665	53.095
4) tcm gamma-BHC (L	10.97	10.97	227.3E6	866.7E6	8.059	8.248
8) tc delta-BHC	11.40	11.56	905.9E6	3449.0E6	33.309	33.408
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey068.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 11:20 am
Operator : M.PEDRO
Sample : 1111265 2.0
Misc : 06/27/08 212 ensr r44538 8081
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 07:12:23 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



80810710

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY068.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 11:20 am
 Operator : M.PEDRO
 Sample : 1111265 2.0
 Misc : 06/27/08 212 ensr r44538 8081
 ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:50:37 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	950.8E6	3599.1E6	47.114	44.477
Spiked Amount	100.000	Range 30 - 150	Recovery =		47.11%	44.48%
25) S SURR2,Decachloro	17.61	17.86	1046.7E6	3574.6E6	59.932	64.904
Spiked Amount	100.000	Range 30 - 150	Recovery =		59.93%	64.90%
Target Compounds						
2) TC HEXACHLOROBENZEN	0.00	10.12	0	159.4E6	N.D.	1.312 #
3) tc alpha-BHC	10.44	10.40	1690.0E6	6301.0E6	54.665	53.095
4) tcm gamma-BHC (L	10.97	10.97	227.3E6	866.7E6	8.059	8.248
5) tcm Heptachlor	11.71	0.00	97948477	0	3.505	N.D. #
6) tcm Aldrin	0.00	12.10	0	84806305	N.D.	0.931 #
7) tc beta-BHC	11.11	0.00	25388679	0	2.211	N.D. #
8) tc delta-BHC	11.40	11.56	905.9E6	3449.0E6	33.309	33.408
9) tc Heptachlor E	13.09	12.96	21299139	97974458	0.936	1.219 #
10) tc alpha-Endosu	13.69	13.51	6415705	64592562	0.314	0.910 #
11) tc gamma-Chlord	13.28	13.22	20926792	194.8E6	0.955	2.375 #
12) tc alpha-Chlord	13.47	13.45	26768759	48639856	1.252	0.626 #
13) tc 4,4'-DDE	13.57	13.67	30146967	65337622	1.384	0.852 #
14) tcm Dieldrin	14.01	13.92	48642540	49022691	2.129	0.627 #
15) tcm Endrin	0.00	14.35	0	188.1E6	N.D.	2.792 #
17) tc beta-Endosul	0.00	14.67	0	122.0E6	N.D.	1.900 #
19) tcm 4,4'-DDT	14.86	14.97	19319990	121.4E6	1.010	1.854 #
20) tc Endrin Aldeh	15.36	15.15	14232851	154.2E6	0.970	3.143 #
21) tc Endosulfan S	16.00	15.56	8616923	124.1E6	0.511	2.172 #
22) tc Methoxychlor	15.55	0.00	12161827	0	1.306	N.D. #
23) tc FAMPHUR	0.00	15.68	0	107.2E6	N.D.	2.565 #
26) L8C Toxaphene	14.83	14.80	27489657	29224649	68.920	15.104 #
27) L8C Toxaphene {2}	14.86	0.00	19319990	0	54.305	N.D. #
28) L8C Toxaphene {3}	15.51	15.15	8207731	154.2E6	12.195	82.469 #
29) L8C Toxaphene {4}	16.33	0.00	4691698	0	5.732	N.D. #
30) L8C Toxaphene {5}	16.56	16.68	1824.1E6	5873.8E6	2740.423	2603.200
Sum Toxaphene			1883.8E6	6057.2E6	2881.574	2700.773

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : EY068.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 11:20 am
 Operator : M.PEDRO
 Sample : 1111265 2.0
 Misc : 06/27/08 212 ensr r44538 8081
 ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 11 13:50:37 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					576.315	900.258
31) L9C Chlordane	11.60	0.00	1748.0E6	0	2192.474	N.D. #
32) L9C Chlordane {2}	11.71	0.00	97948477	0	86.946	N.D. #
33) L9C Chlordane {3}	12.42	12.37	39672833	61507302	38.457	17.182 #
34) L9C Chlordane {4}	13.28	13.22	20926792	194.8E6	7.564	19.437 #
35) L9C Chlordane {5}	0.00	14.76	0	109.7E6	N.D.	31.113 #
Sum Chlordane			1906.6E6	366.0E6	2325.441	67.732
Average Chlordane					581.360	22.577

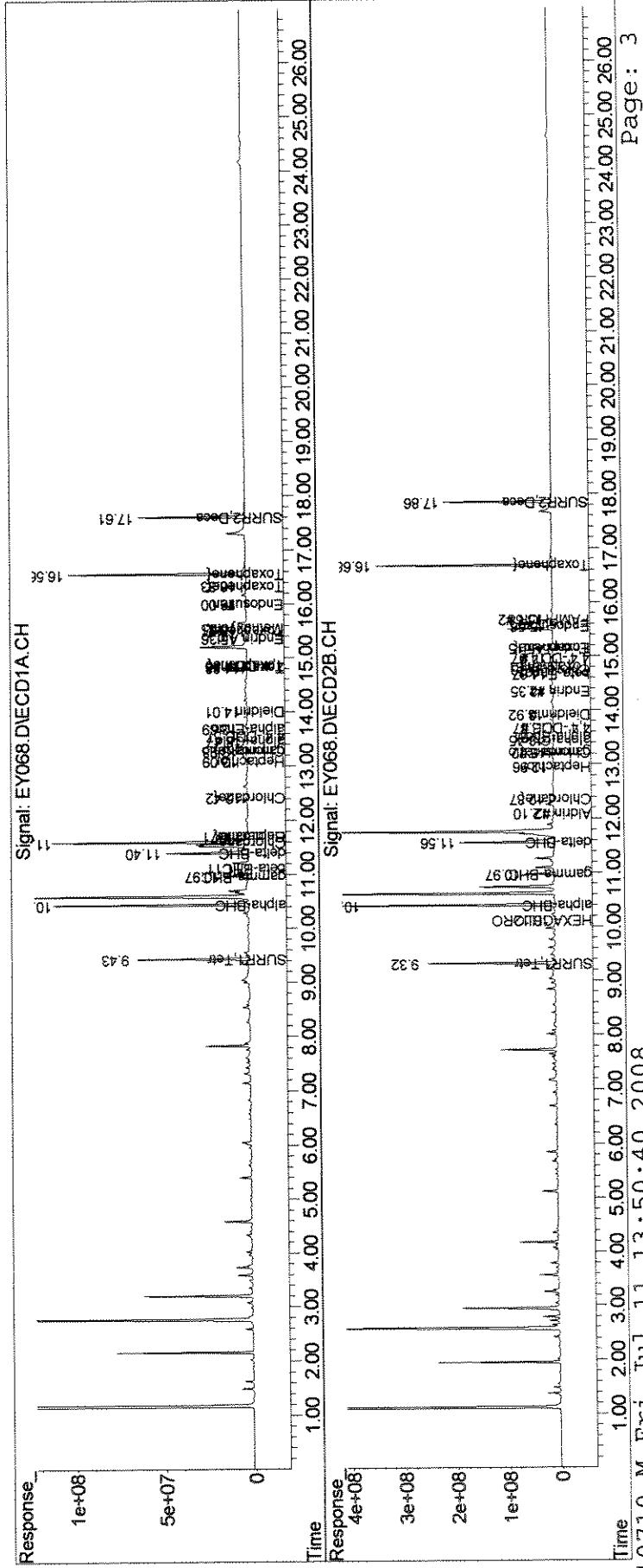
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY068.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 11:20 am
Operator : M.PEDRO
Sample : 1111265 2.0
Misc : 06/27/08 212 ensr r44538 8081
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:50:37 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



00659

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66B

Date Sampled : 06/20/08 10:50 Order #: 1111266 Sample Matrix: WATER
Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.086	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	0.047 U	UG/L
HEXACHLORO BENZENE	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 %)	85	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	83	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex916.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 2:51 pm
 Operator : M.PEDRO
 Sample : 1111266 1.0
 Misc : 06/27/08 212 ensr 8081 r44538
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:48:14 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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	9.27	9.04	1518.0E6	5070.9E6	80.603	83.108
Spiked Amount	100.000	Range	30 - 150	Recovery	= 80.60%	83.11%
25) S SURR2,Decachloro	17.39	17.46	1451.1E6	3462.0E6	84.955	79.311
Spiked Amount	100.000	Range	30 - 150	Recovery	= 84.95%	79.31%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	505.6E6	1694.8E6	16.835	18.329
4) tcm gamma-BHC (L	10.79	10.65	185.8E6	571.0E6	6.758m	6.950m
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

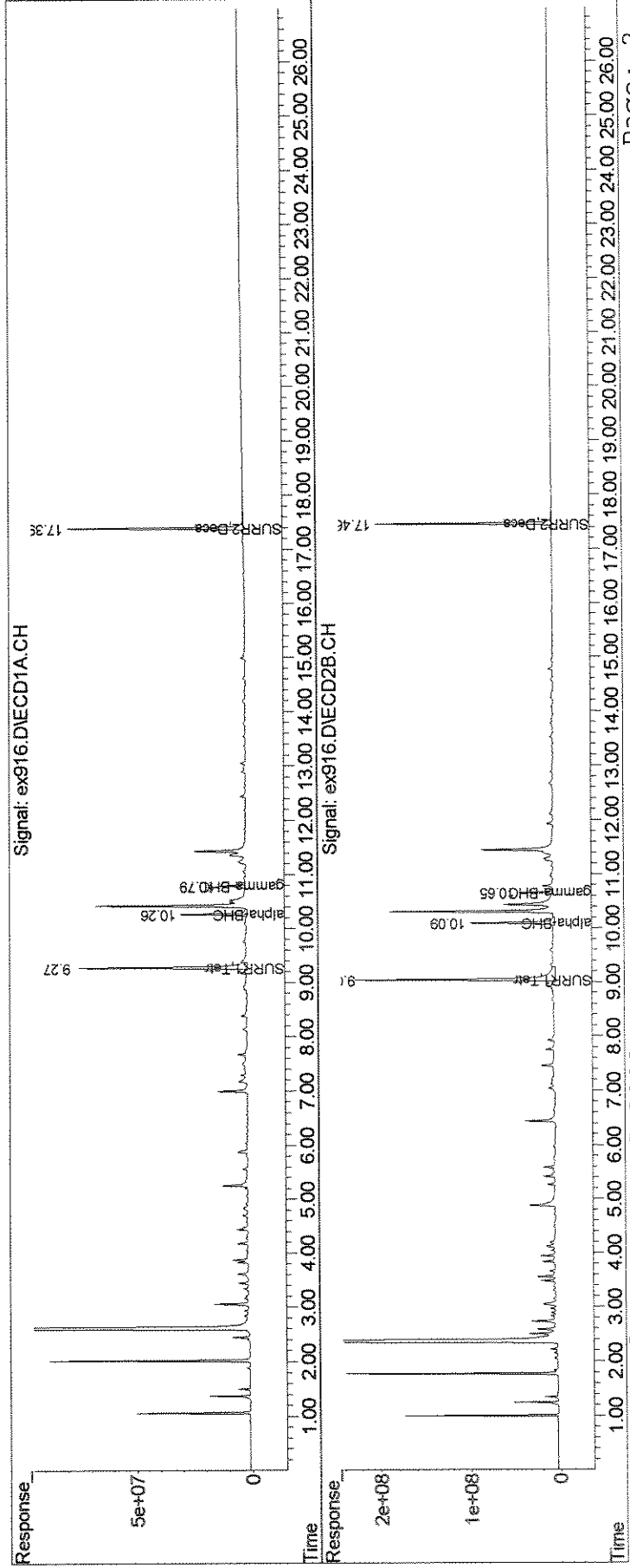
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 2:51 pm
Operator : M.PEDRO
Sample : 1111266 1.0
Misc : 06/27/08 212 ensr 8081 r44538
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 09:48:14 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



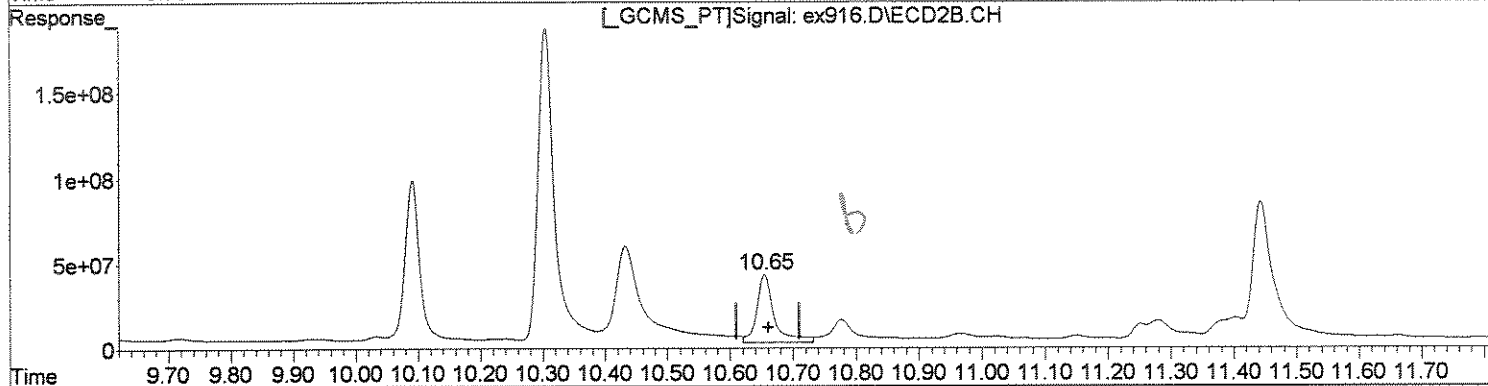
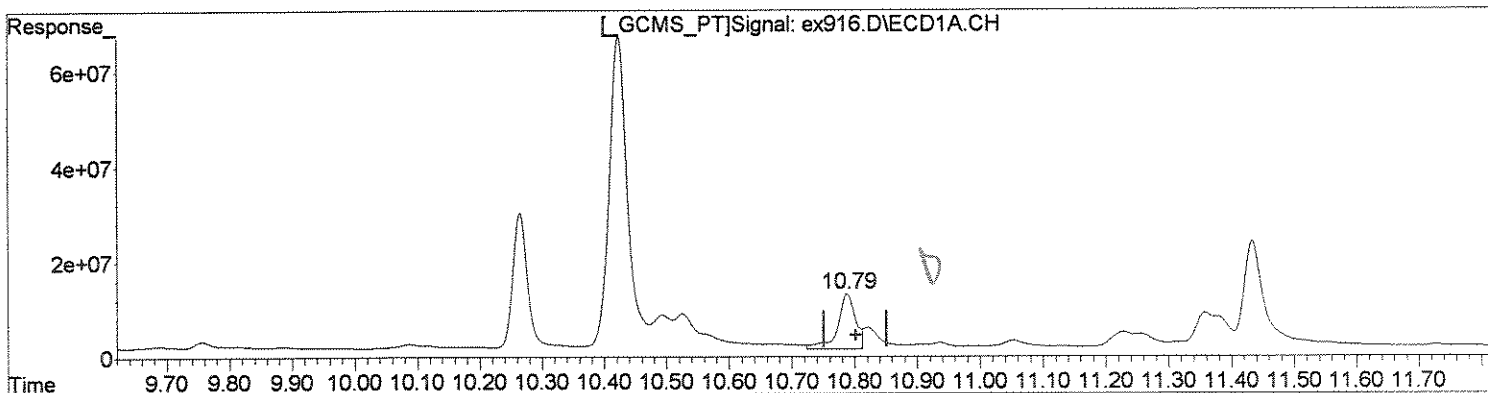
00662

Quantitation Report (Qedit)

Data Path : J:\ACQUADATA\6890D\DATA\063008\
Data File : ex916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 2:51 pm
Operator : M.PEDRO
Sample : 1111266 1.0
Misc : 06/27/08 212 ensr 8081 r44538
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:54 2008
Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(4) gamma-BHC (L (tcm))
10.79min 8.284ug/l
response 227712654

(4) gamma-BHC (L #2 (tcm))
10.65min 9.371ug/l
response 769931075

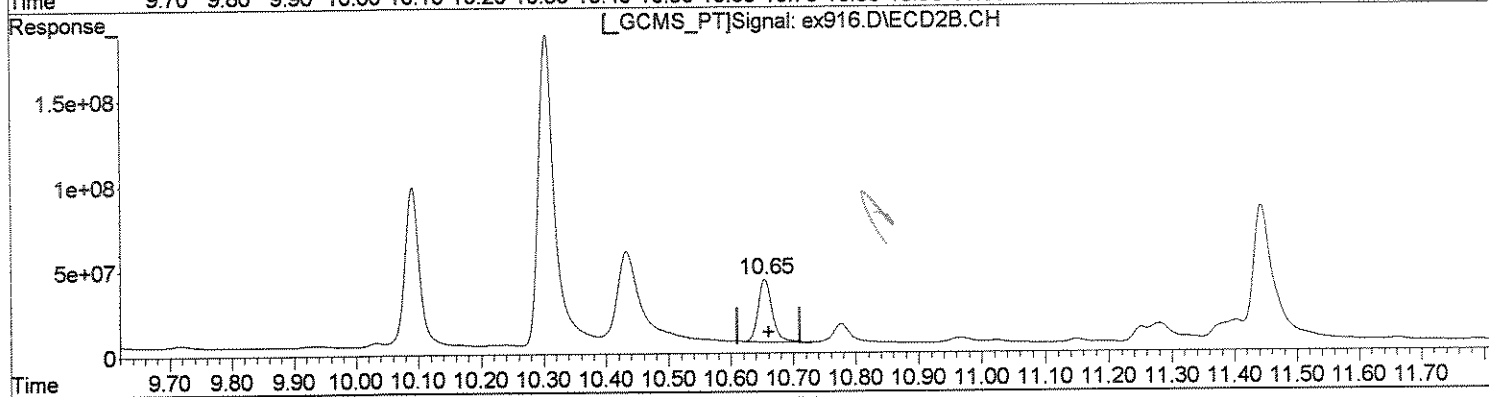
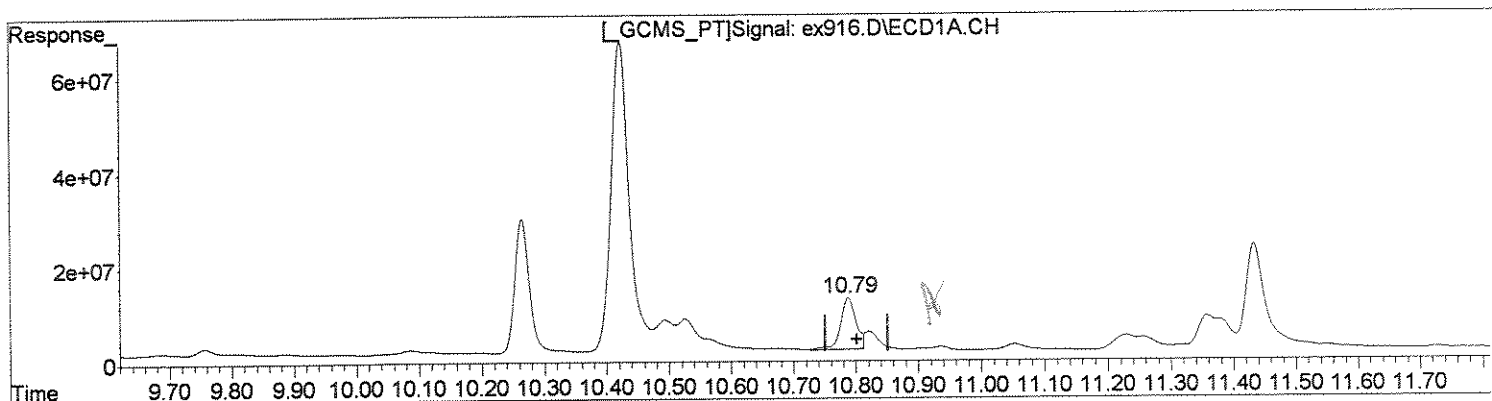
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Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 2:51 pm
Operator : M.PEDRO
Sample : 1111266 1.0
Misc : 06/27/08 212 ensr 8081 r44538
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:54 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(4) gamma-BHC (L (tcm)
10.79min 6.758ug/l m
response 185768795

WSP 7/1 *MW 7/1*

(4) gamma-BHC (L #2 (tcm)
10.65min 6.950ug/l m
response 571023305

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX916.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 2:51 pm
 Operator : M.PEDRO
 Sample : 1111266 1.0
 Misc : 06/27/08 212 ensr 8081 r44538
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1518.0E6	5070.9E6	80.603	83.108
Spiked Amount	100.000	Range 30 - 150	Recovery =		80.60%	83.11%
25) S SURR2,Decachloro	17.39	17.46	1451.1E6	3462.0E6	84.955	79.311
Spiked Amount	100.000	Range 30 - 150	Recovery =		84.95%	79.31%
Target Compounds						
2) TC HEXACHLOROBENZEN	0.00	9.87	0	57853061	N.D.	0.657 #
3) tc alpha-BHC	10.26	10.09	505.6E6	1694.8E6	16.835	18.329
4) tcm gamma-BHC (L	10.79	10.65	227.7E6	769.9E6	8.284	9.371
6) tcm Aldrin	11.98	11.79	20181784	127.1E6	0.820	1.696 #
8) tc delta-BHC	11.23	11.25	84349676	157.8E6	3.050	1.899 #
9) tc Heptachlor E	12.90	12.61	60301623	61773284	2.617	0.919 #
11) tc gamma-Chlord	0.00	12.88	0	100.5E6	N.D.	1.441 #
13) tc 4,4'-DDE	13.37	13.35	22200055	82018256	0.987	1.258 #
14) tcm Dieldrin	0.00	13.56	0	42234093	N.D.	0.647 #
15) tcm Endrin	14.19	13.98	53412347	26138722	2.561	0.461 #
17) tc beta-Endosul	0.00	14.28	0	54218515	N.D.	0.989 #
19) tcm 4,4'-DDT	0.00	14.58	0	93901546	N.D.	1.714 #
20) tc Endrin Aldeh	15.14	14.77	9126354	145.8E6	0.618	3.623 #
21) tc Endosulfan S	0.00	15.13	0	22883639	N.D.	0.461 #
22) tc Methoxychlor	0.00	15.54	0	4001802	N.D.	0.166 #
24) tc Endrin Keton	0.00	15.91	0	1818983	N.D.	0.034 #
26) L8C Toxaphene	14.61	14.42	31416967	27662393	75.231	16.883 #
27) L8C Toxaphene{2}	0.00	14.70	0	22847575	N.D.	29.699 #
29) L8C Toxaphene{4}	0.00	16.08	0	14088794	N.D.	8.662 #
30) L8C Toxaphene{5}	16.34	0.00	10946543	0	16.213	N.D. #
Sum Toxaphene			42363510	64598762	91.444	55.244
Average Toxaphene					45.722	18.415
31) L9C Chlordane	11.43	0.00	621.9E6	0	812.665	N.D. #
33) L9C Chlordane{3}	0.00	12.03	0	48008959	N.D.	17.292 #
Sum Chlordane			621.9E6	48008959	812.665	17.292

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX916.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 2:51 pm
 Operator : M.PEDRO
 Sample : 1111266 1.0
 Misc : 06/27/08 212 ensr 8081 r44538
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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 Chlordane					812.665	17.292

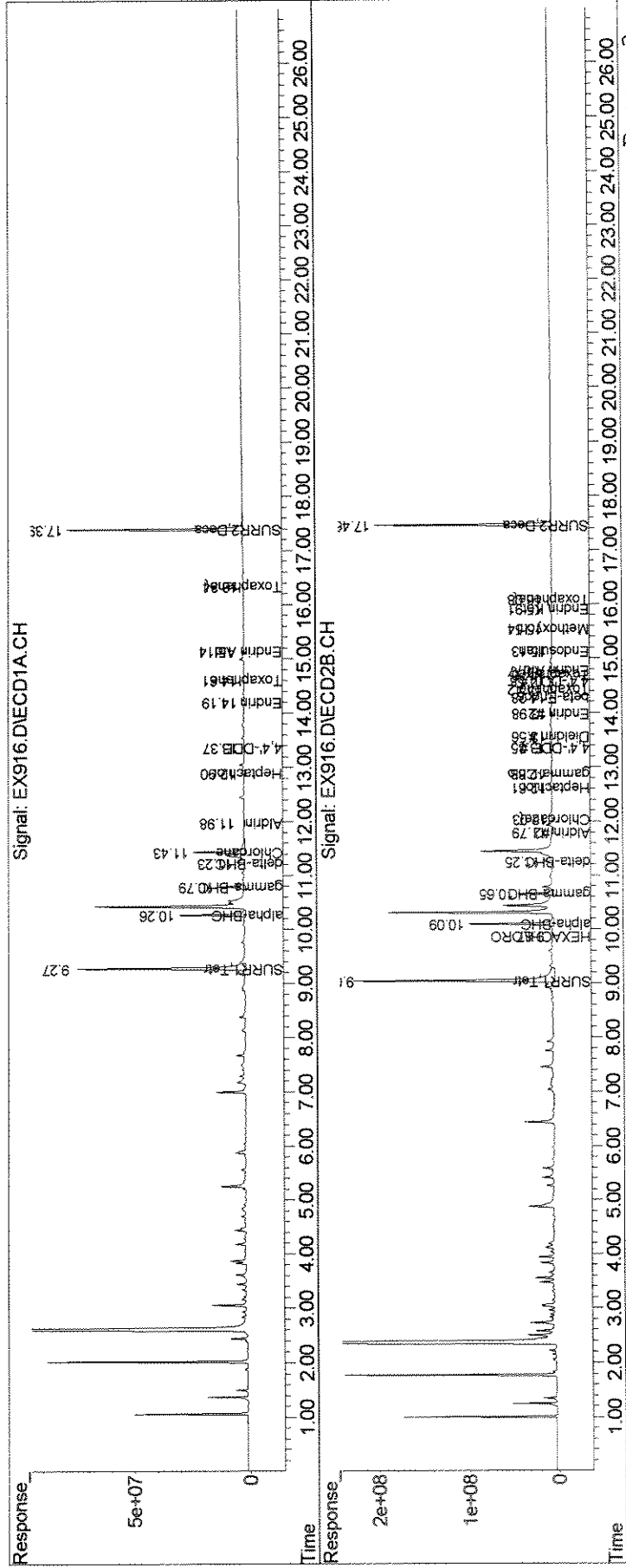
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 2:51 pm
Operator : M.PEDRO
Sample : 1111266 1.0
Misc : 06/27/08 212 ensr 8081 r44538
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:54 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



00667

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-37B

Date Sampled : 06/20/08 10:00 Order #: 1111267 Sample Matrix: WATER
Date Received: 06/21/08 Submission #: R2844538 Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/25/08			
DATE ANALYZED : 06/26/08			
ANALYTICAL DILUTION: 1.00			
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	0.047 U	UG/L
HEXACHLORO BENZENE	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 %)	83	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	76	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex877.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 2:31 pm
 Operator : M.PEDRO
 Sample : 1111267 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:13:41 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.04	1439.8E6	4583.6E6	76.449	75.121
Spiked Amount	100.000	Range	30 - 150	Recovery	= 76.45%	75.12%
25) S SURR2,Decachloro	17.40	17.47	1420.3E6	3471.0E6	83.155	79.519
Spiked Amount	100.000	Range	30 - 150	Recovery	= 83.16%	79.52%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	35885357	191.5E6	1.195	2.071 #
8) tc delta-BHC	11.23	11.25	47411517	189.7E6	1.714	2.282 #
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.

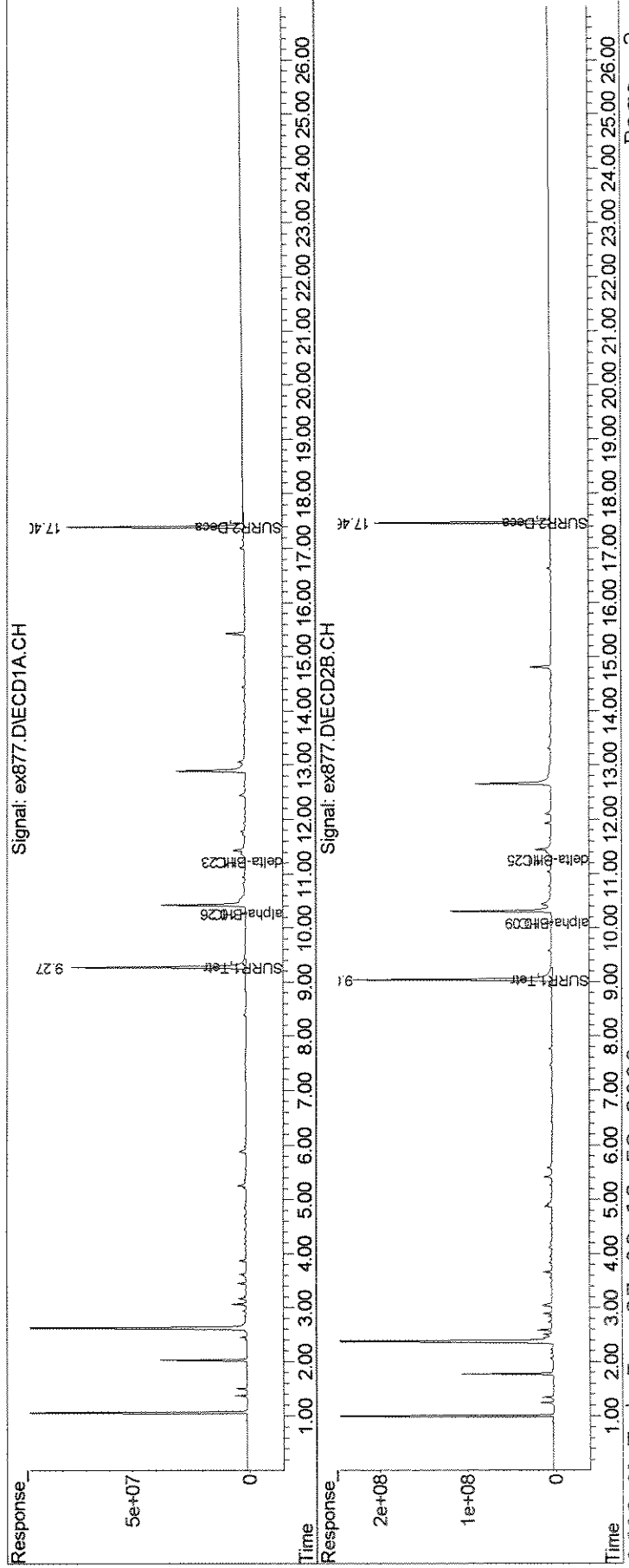


Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex877.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 2:31 pm
Operator : M.PEDRO
Sample : 1111267 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 09:13:41 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



00570

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX877.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 2:31 pm
 Operator : M.PEDRO
 Sample : 1111267 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.04	1439.8E6	4583.6E6	76.449	75.121
Spiked Amount	100.000	Range	30 - 150	Recovery	=	76.45% 75.12%
25) S SURR2,Decachloro	17.40	17.47	1420.3E6	3471.0E6	83.155	79.519
Spiked Amount	100.000	Range	30 - 150	Recovery	=	83.16% 79.52%

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.88	5226724	40232945	0.192	0.457 #
3) tc alpha-BHC	10.26	10.09	35885357	191.5E6	1.195	2.071 #
4) tcm gamma-BHC (L	10.79	10.66	17264253	131.9E6	0.628	1.605 #
5) tcm Heptachlor	0.00	11.34	0	73572097	N.D.	0.921 #
6) tcm Aldrin	0.00	11.78	0	50404038	N.D.	0.673 #
7) tc beta-BHC	10.94	10.82	30788284	69793419	2.667	1.956 #
8) tc delta-BHC	11.23	11.25	47411517	189.7E6	1.714	2.282 #
9) tc Heptachlor E	12.89	0.00	703.6E6	0	30.536	N.D. #
11) tc gamma-Chlord	13.06	12.88	101.9E6	128.9E6	4.469	1.849 #
13) tc 4,4'-DDE	13.37	13.31	23031329	90615481	1.024	1.390 #
14) tcm Dieldrin	0.00	13.56	0	34389973	N.D.	0.527 #
15) tcm Endrin	0.00	13.98	0	18512870	N.D.	0.326 #
16) tc KEPONE	14.27	14.18	6107496	8793209	0.976	0.514 #
17) tc beta-Endosul	0.00	14.28	0	29735304	N.D.	0.542 #
18) tc 4,4'-DDD	14.27	0.00	6107496	0	0.325	N.D. #
19) tcm 4,4'-DDT	0.00	14.58	0	45949011	N.D.	0.838 #
20) tc Endrin Aldeh	15.14	0.00	4357702	0	0.295	N.D. #
21) tc Endosulfan S	15.78	15.18	7670420	28974195	0.423	0.584 #
24) tc Endrin Keton	0.00	15.93	0	6095370	N.D.	0.113 #
26) L8C Toxaphene	14.61	0.00	14526728	0	34.786	N.D. #
27) L8C Toxaphene {2}	0.00	14.70	0	9999494	N.D.	12.998 #
28) L8C Toxaphene {3}	0.00	14.81	0	492.4E6	N.D.	298.025 #
29) L8C Toxaphene {4}	0.00	16.08	0	8445379	N.D.	5.192 #
30) L8C Toxaphene {5}	16.34	16.32	12315670	5511749	18.241	3.165 #
Sum Toxaphene			26842398	516.3E6	53.027	319.380
Average Toxaphene					26.513	79.845

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX877.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 2:31 pm
 Operator : M.PEDRO
 Sample : 1111267 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	11.43	11.11	185.8E6	21204349	242.783	8.419 #
32) L9C Chlordane {2}	0.00	11.34	0	73572097	N.D.	21.510 #
33) L9C Chlordane {3}	0.00	12.04	0	30529849	N.D.	10.997 #
34) L9C Chlordane {4}	0.00	12.88	0	128.9E6	N.D.	16.293 #
35) L9C Chlordane {5}	0.00	14.39	0	20240023	N.D.	6.647 #
Sum Chlordane			185.8E6	274.5E6	242.783	63.866
Average Chlordane					242.783	12.773

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-72B

Date Sampled : 06/23/08 13:40 Order #: 1111763 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/25/08		
DATE ANALYZED	: 06/26/08		
ANALYTICAL DILUTION:	1.00		
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	0.047 U	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 %)	71	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	75	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex878.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 3:07 pm
 Operator : M.PEDRO
 Sample : 1111763 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:15:57 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

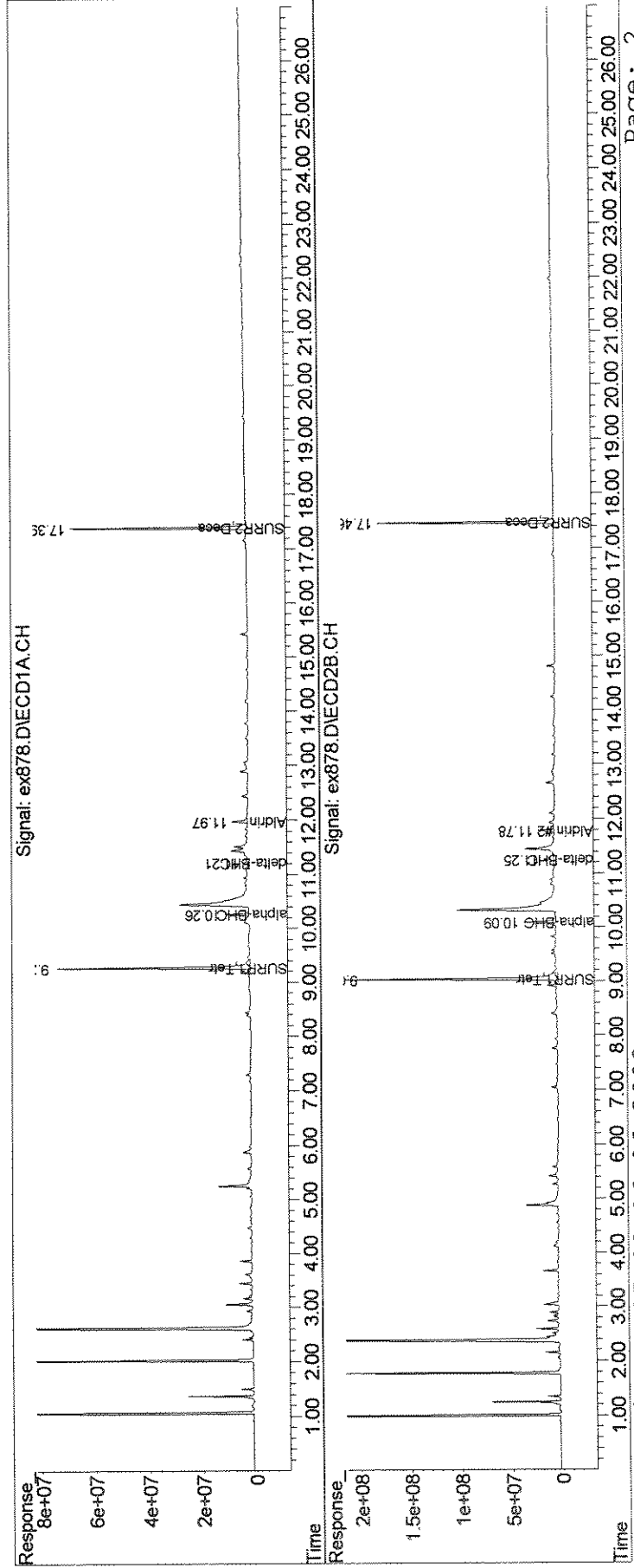
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1406.4E6	4225.1E6	74.678	69.245
Spiked Amount	100.000	Range	30 - 150	Recovery	= 74.68%	69.25%
25) S SURR2,Decachloro	17.40	17.46	1216.6E6	2973.5E6	71.231	68.120
Spiked Amount	100.000	Range	30 - 150	Recovery	= 71.23%	68.12%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	149.1E6	615.5E6	4.963m	6.656m#
6) tcm Aldrin	11.97	11.78	130.6E6	377.4E6	5.306m	5.035m
8) tc delta-BHC	11.21	11.25	30628465	309.1E6	1.107m	3.720m#
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.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex878.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 3:07 pm
Operator : M.PEDRO
Sample : 1111763 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 09:15:57 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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

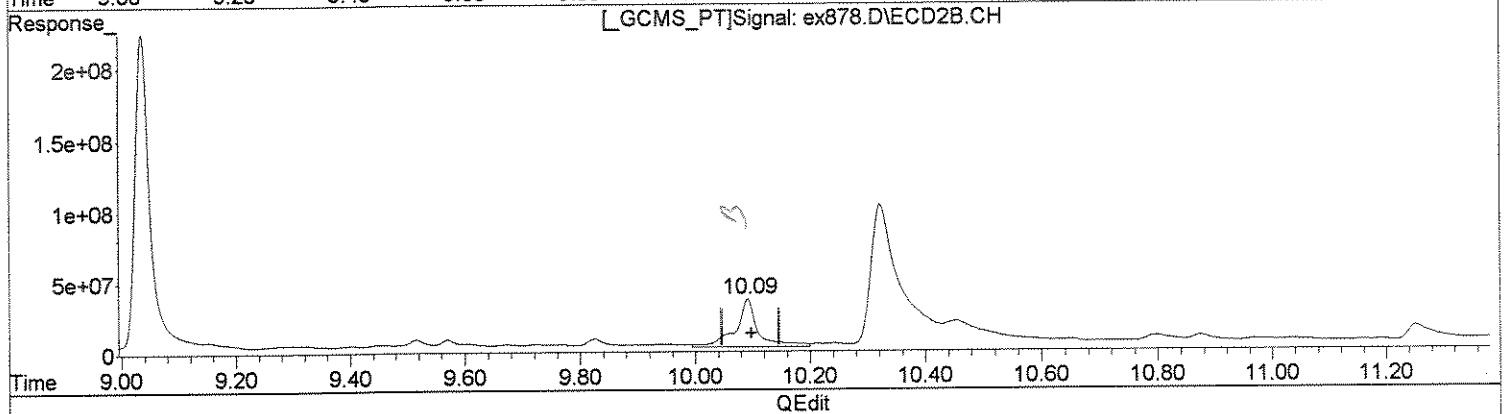
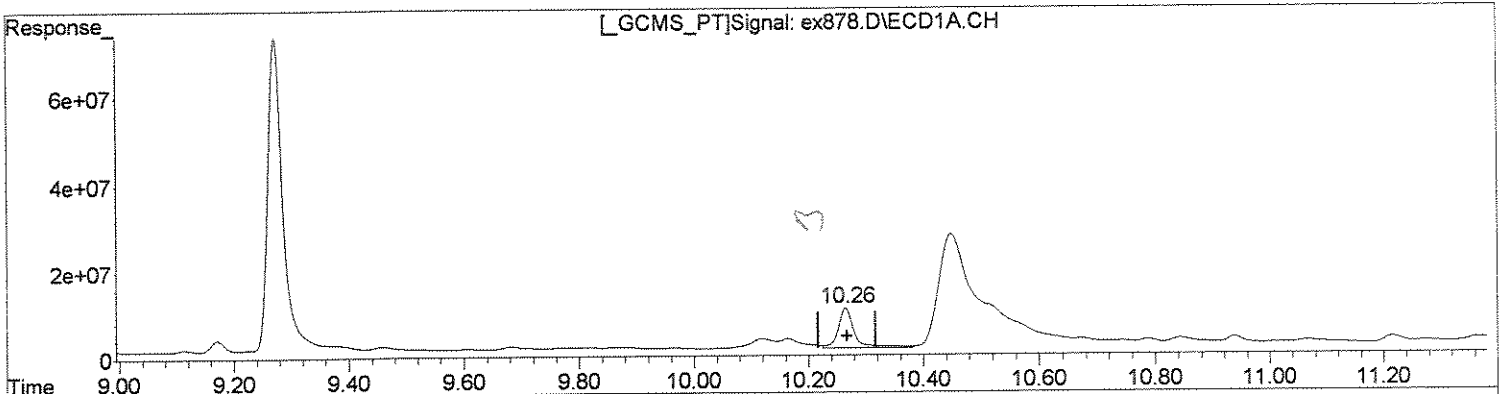


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex878.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 3:07 pm
Operator : M.PEDRO
Sample : 1111763 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:09 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(3) alpha-BHC (tc)
10.26min 6.136ug/l
response 184275839

(3) alpha-BHC #2 (tc)
10.09min 9.894ug/l
response 914863977

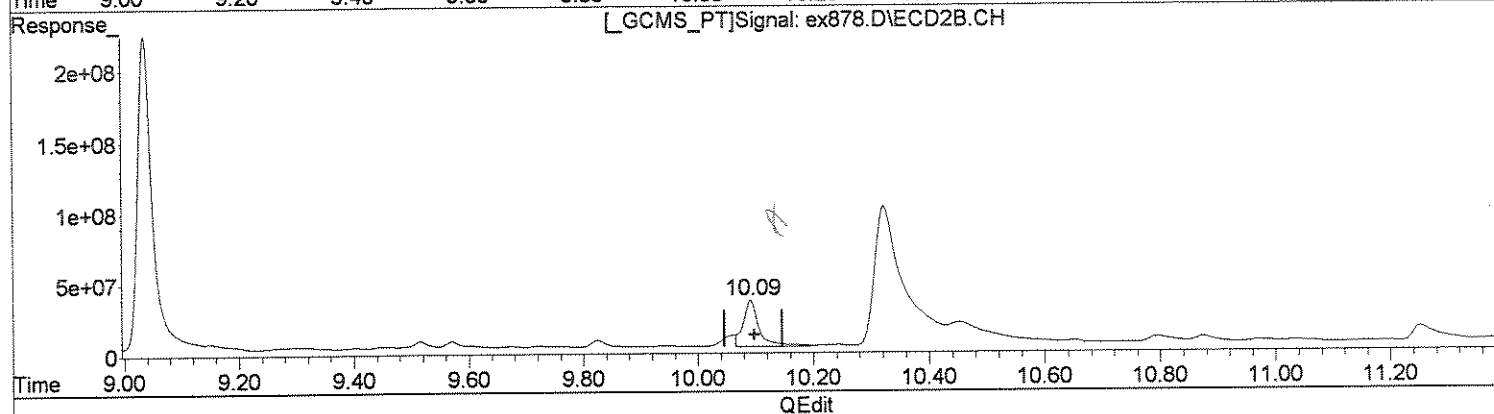
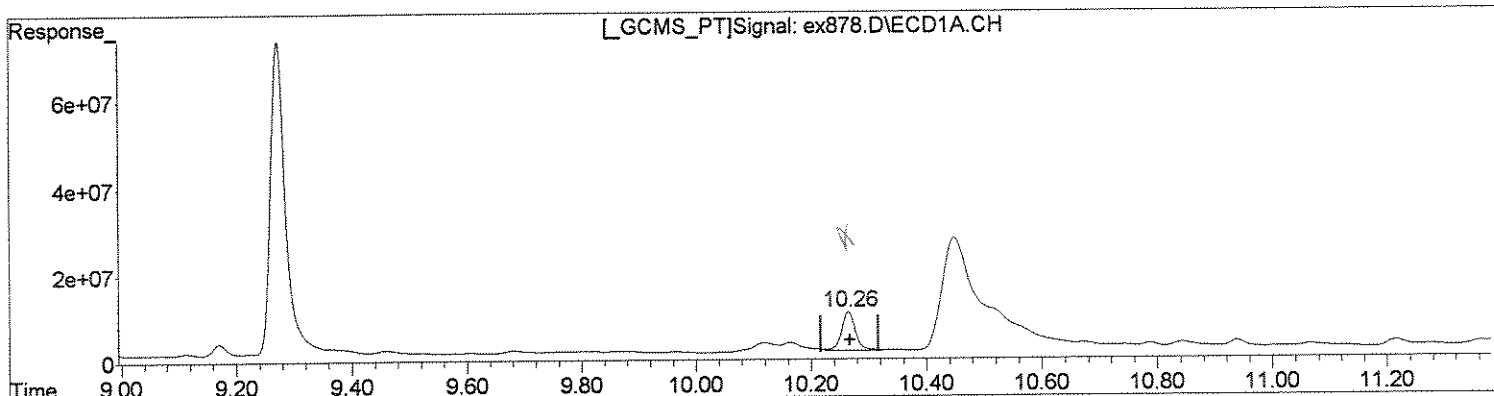
Answer

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex878.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 3:07 pm
Operator : M.PEDRO
Sample : 1111763 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:09 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(3) alpha-BHC (tc)
10.26min 4.963ug/l m
response 149051168

(3) alpha-BHC #2 (tc)
10.09min 6.656ug/l m
response 615474405

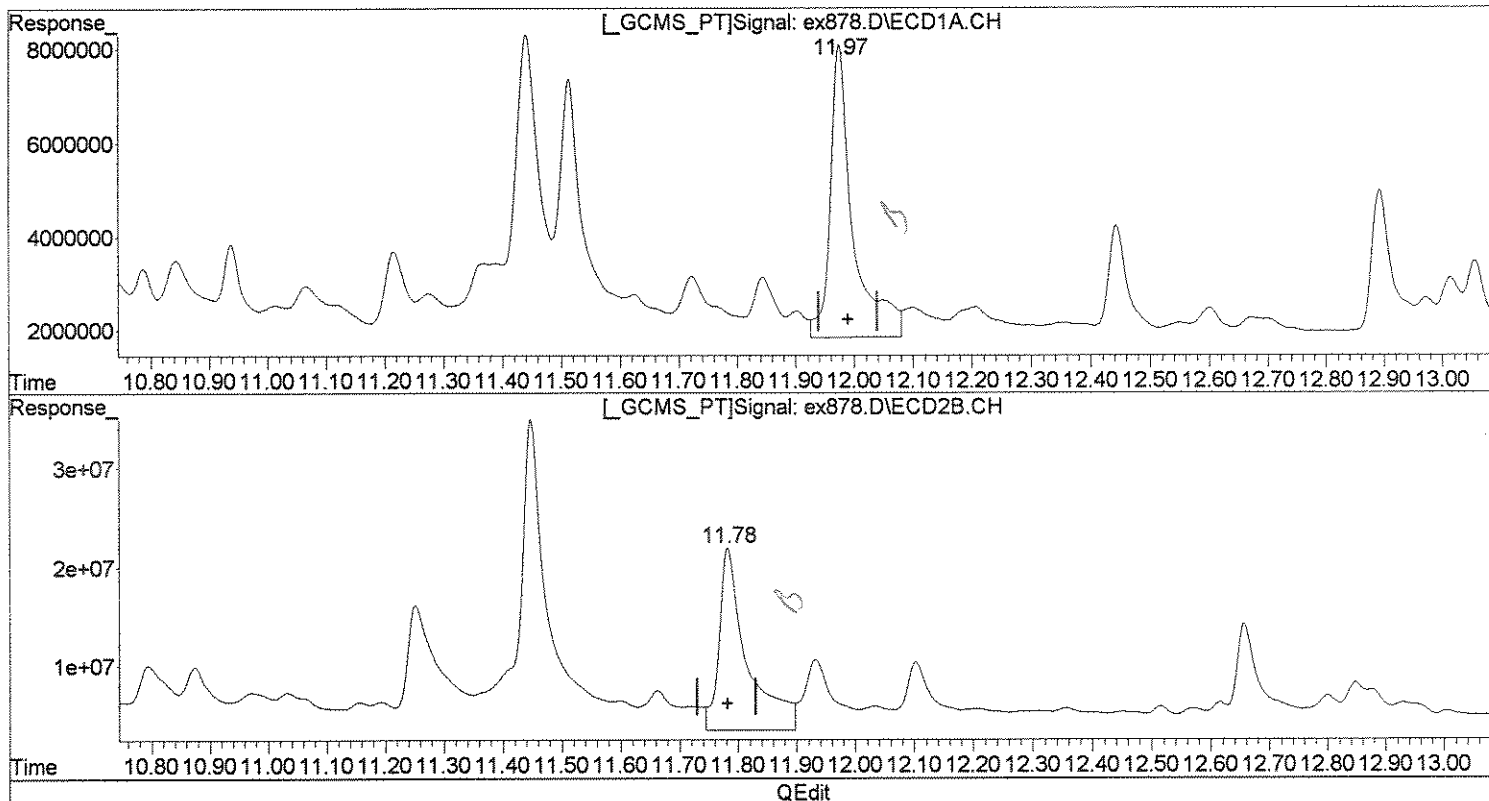
Handwritten notes:
m.w. 4/17
m.w. 4/17

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex878.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 3:07 pm
Operator : M.PEDRO
Sample : 1111763 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:09 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(6) Aldrin (tcm)
11.97min 6.880ug/l
response 169333334

(6) Aldrin #2 (tcm)
11.78min 8.138ug/l
response 609924536

QEdit

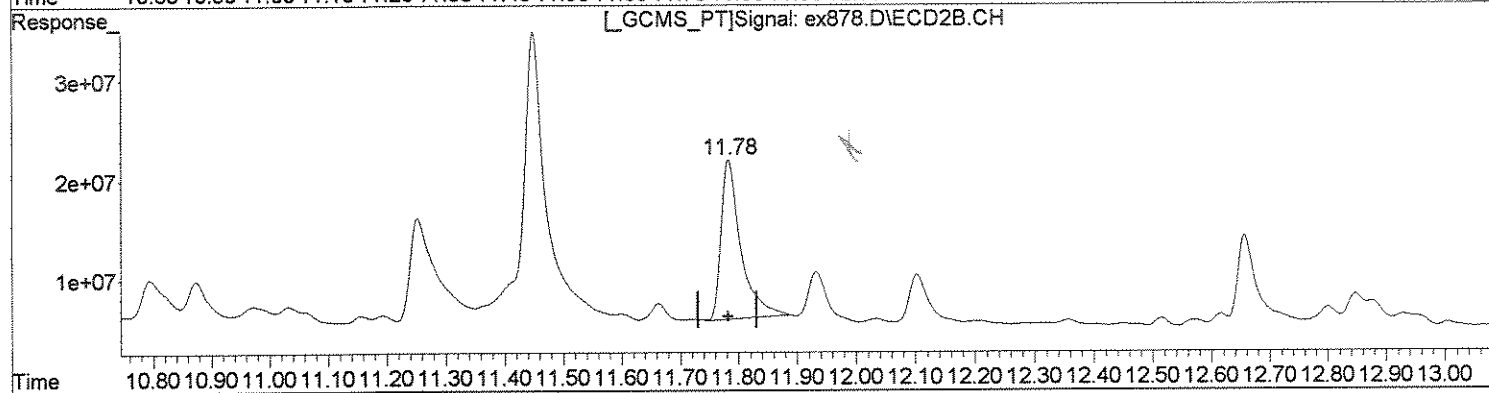
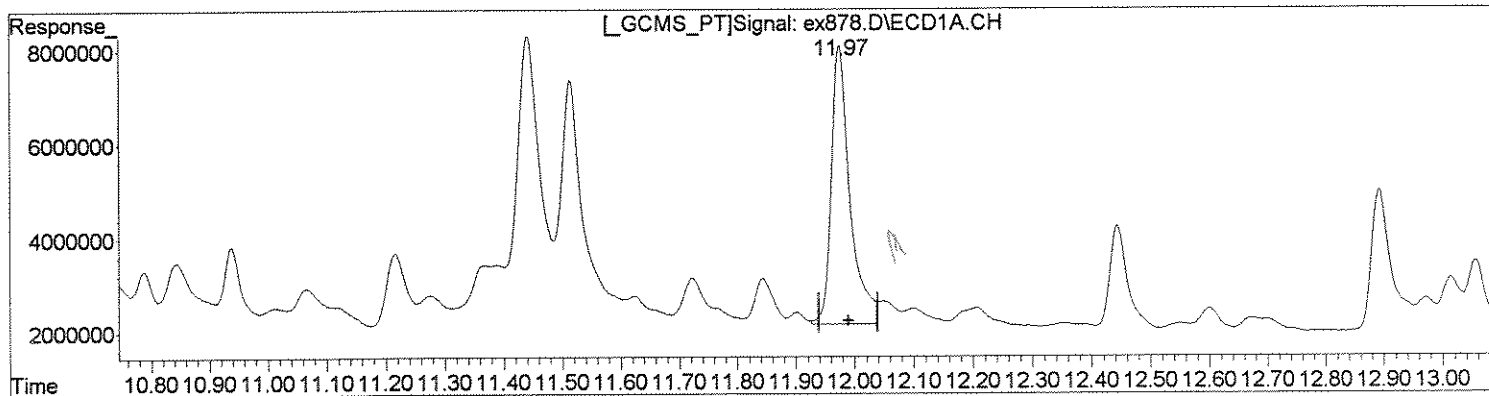
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex878.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 3:07 pm
Operator : M.PEDRO
Sample : 1111763 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:09 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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

(6) Aldrin (tcm)
11.97min 5.306ug/l m
response 130592474

MVJ
6/27 *hsp*
6/27

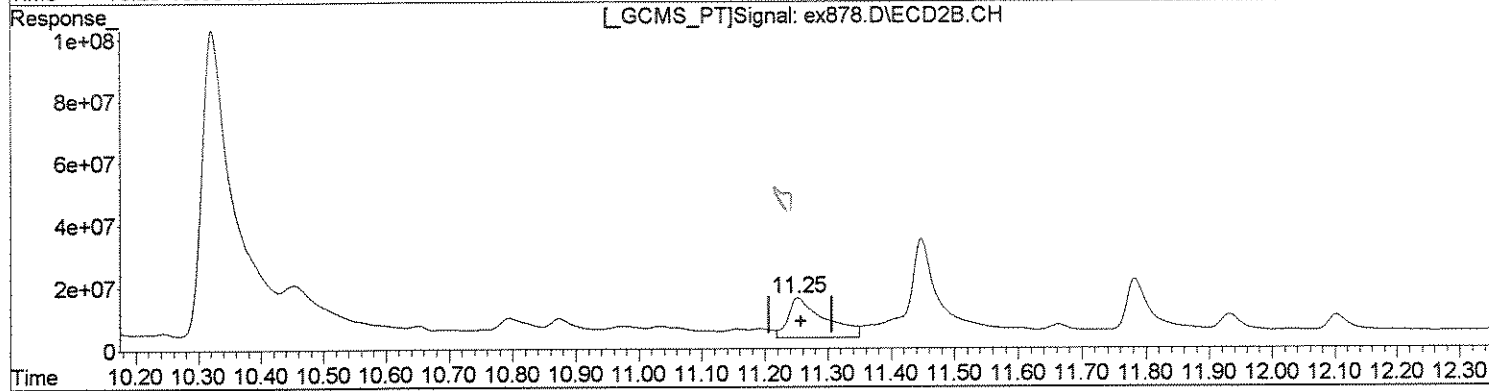
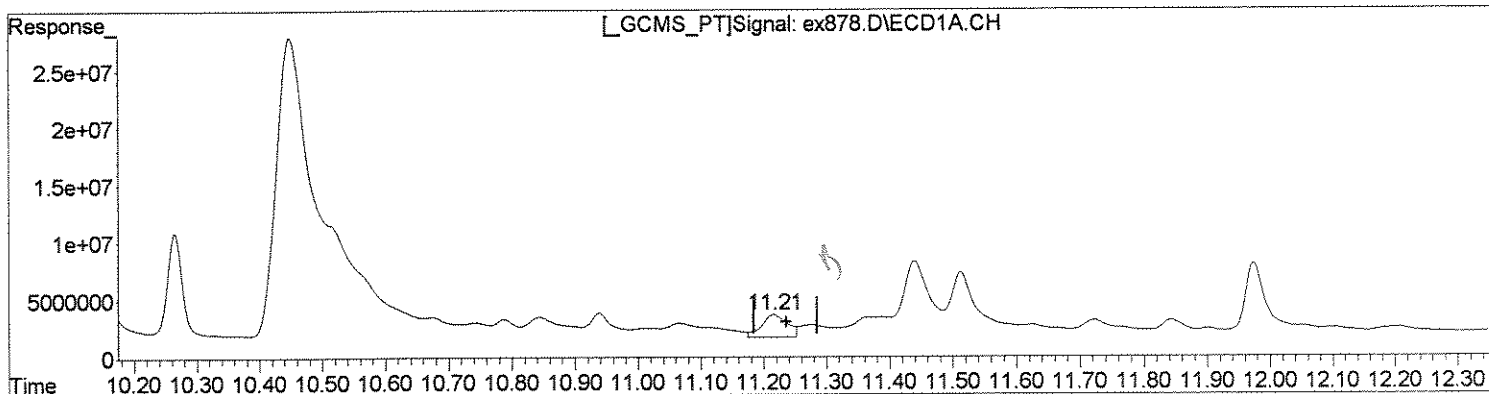
(6) Aldrin #2 (tcm)
11.78min 5.035ug/l m
response 377392151

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex878.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 3:07 pm
Operator : M.PEDRO
Sample : 1111763 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:09 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(8) delta-BHC (tc)
11.22min 1.988ug/l
response 54985357

(8) delta-BHC #2 (tc)
11.25min 6.266ug/l
response 520653366

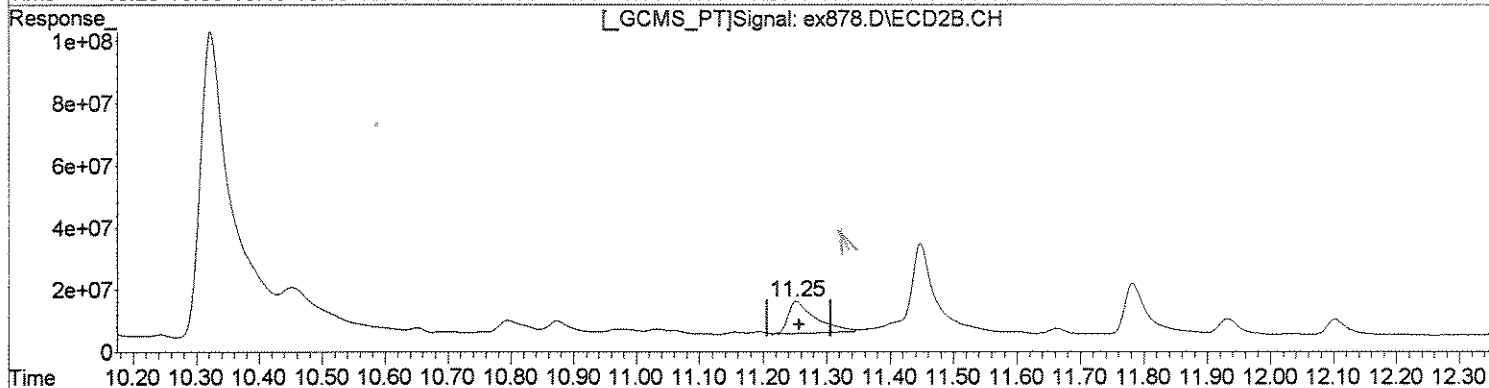
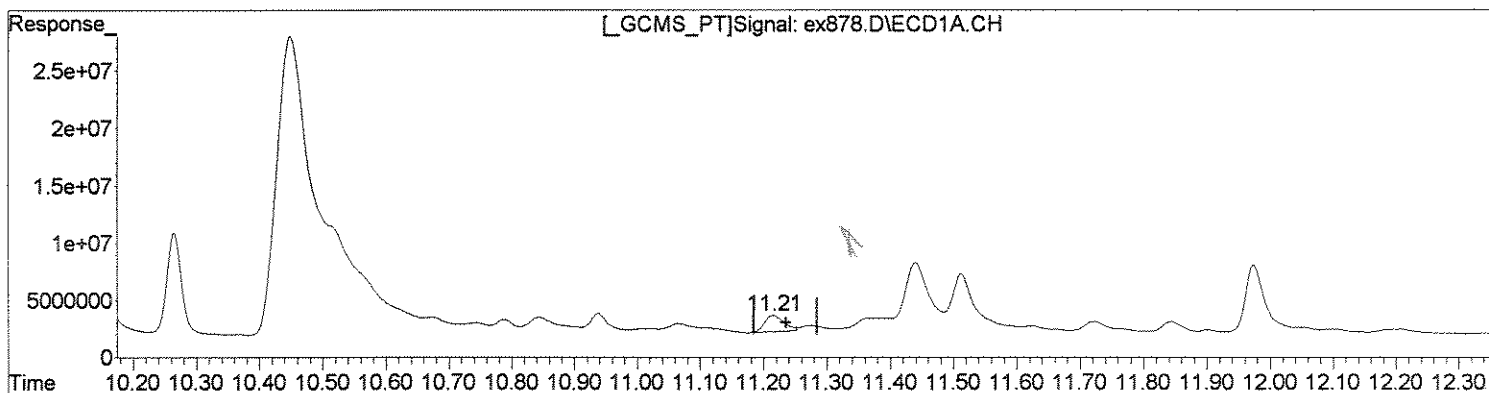
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex878.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 3:07 pm
Operator : M.PEDRO
Sample : 1111763 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:09 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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

(8) delta-BHC (tc)
11.21min 1.107ug/l m
response 30628465

(8) delta-BHC #2 (tc)
11.25min 3.720ug/l m
response 309111594

Handwritten notes:
11/27/08
11/27/08

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX878.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 3:07 pm
 Operator : M.PEDRO
 Sample : 1111763 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:09 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1406.4E6	4225.1E6	74.678	69.245
Spiked Amount	100.000	Range	30 - 150	Recovery	= 74.68%	69.25%
25) S SURR2,Decachloro	17.40	17.46	1216.6E6	2973.5E6	71.231	68.120
Spiked Amount	100.000	Range	30 - 150	Recovery	= 71.23%	68.12%
Target Compounds						
2) TC HEXACHLORO BENZEN	9.96	0.00	12526470	0	0.461	N.D. #
3) tc alpha-BHC	10.26	10.09	184.3E6	914.9E6	6.136	9.894 #
4) tcm gamma-BHC (L	10.79	10.65	38027776	99392707	1.383	1.210
5) tcm Heptachlor	11.51	0.00	175.1E6	0	6.507	N.D. #
6) tcm Aldrin	11.97	11.78	169.3E6	609.9E6	6.880	8.138
7) tc beta-BHC	10.94	0.00	57069489	0	4.943	N.D. #
8) tc delta-BHC	11.22	11.25	54985357	520.7E6	1.988	6.266 #
9) tc Heptachlor E	12.89	12.62	73101943	47419800	3.173	0.706 #
10) tc alpha-Endosu	0.00	13.18	0	122.4E6	N.D.	2.054 #
11) tc gamma-Chlord	13.06	0.00	35543440	0	1.560	N.D. #
12) tc alpha-Chlord	0.00	13.07	0	30011670	N.D.	0.452 #
13) tc 4,4'-DDE	13.37	13.35	9937151	74801186	0.442	1.148 #
14) tcm Dieldrin	0.00	13.56	0	25430709	N.D.	0.390 #
15) tcm Endrin	14.18	13.99	35541714	26236069	1.704	0.463 #
16) tc KEPONE	0.00	14.15	0	19071934	N.D.	1.115 #
18) tc 4,4'-DDD	0.00	14.15	0	19071934	N.D.	0.369 #
19) tcm 4,4'-DDT	0.00	14.58	0	42886592	N.D.	0.783 #
20) tc Endrin Aldeh	0.00	14.77	0	32062639	N.D.	0.797 #
21) tc Endosulfan S	15.78	15.18	4264606	6467493	0.235	0.130 #
26) L8C Toxaphene	14.61	0.00	10818525	0	25.906	N.D. #
27) L8C Toxaphene {2}	0.00	14.70	0	44778849	N.D.	58.208 #
28) L8C Toxaphene {3}	0.00	14.81	0	168.9E6	N.D.	102.249 #
29) L8C Toxaphene {4}	0.00	16.08	0	20701074	N.D.	12.727 #
30) L8C Toxaphene {5}	16.34	16.32	13095802	7654251	19.397	4.395 #
Sum Toxaphene			23914327	242.1E6	45.303	177.578
Average Toxaphene					22.651	44.394

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX878.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 3:07 pm
 Operator : M.PEDRO
 Sample : 1111763 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:09 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

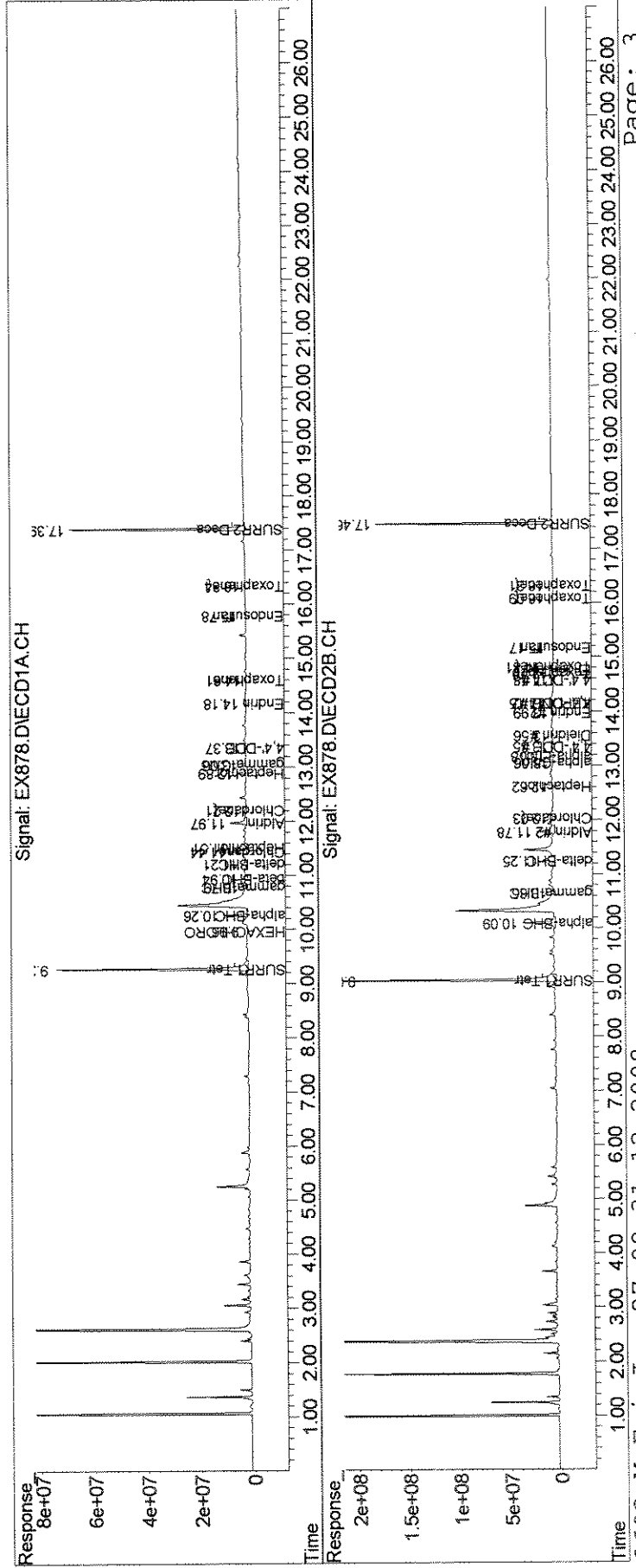
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
31) L9C Chlordane	11.44	0.00	190.2E6	0	248.505	N.D.	#
33) L9C Chlordane{3}	12.21	12.03	35376175	75659667	35.385	27.252	
Sum Chlordane			225.5E6	75659667	283.891	27.252	
Average Chlordane					141.945	27.252	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX878.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 3:07 pm
 Operator : M.PEDRO
 Sample : 1111763 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:09 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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



00585

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-94BX

Date Sampled : 06/23/08 12:00 Order #: 1111764 Sample Matrix: WATER
Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/25/08			
DATE ANALYZED : 06/26/08			
ANALYTICAL DILUTION: 1.00			
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	0.047 U	UG/L
HEXACHLORO BENZENE	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 %)	64	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	82	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex879.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 3:42 pm
 Operator : M.PEDRO
 Sample : 1111764 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:21:39 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

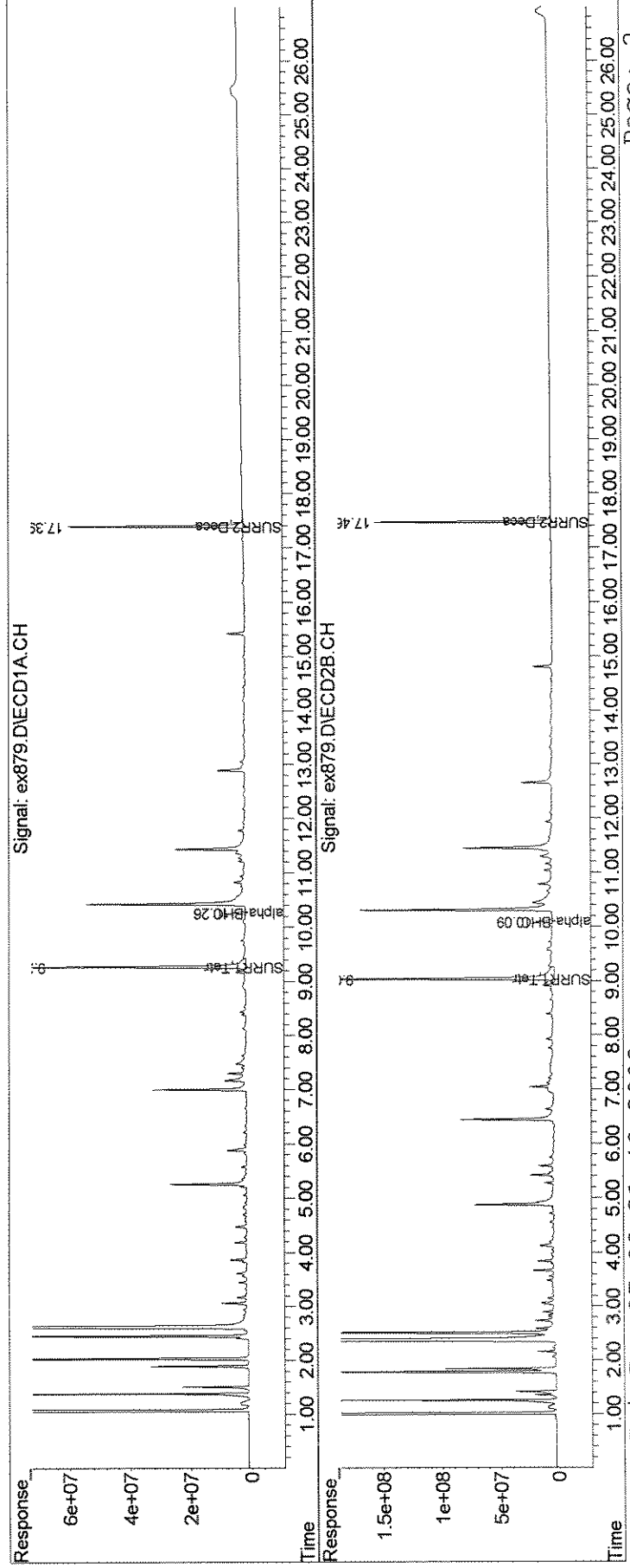
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1548.6E6	4873.2E6	82.227	79.867
Spiked Amount	100.000	Range	30 - 150	Recovery	=	82.23% 79.87%
25) S SURR2,Decachloro	17.39	17.46	1089.4E6	2604.7E6	63.782	59.672
Spiked Amount	100.000	Range	30 - 150	Recovery	=	63.78% 59.67%
Target Compounds						
3) tc alpha-BHC	10.26	10.09	75053514	294.7E6	2.499	3.187m#
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.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex879.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 3:42 pm
Operator : M.PEDRO
Sample : 1111764 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 9 Sample Multiplier: 1
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 09:21:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



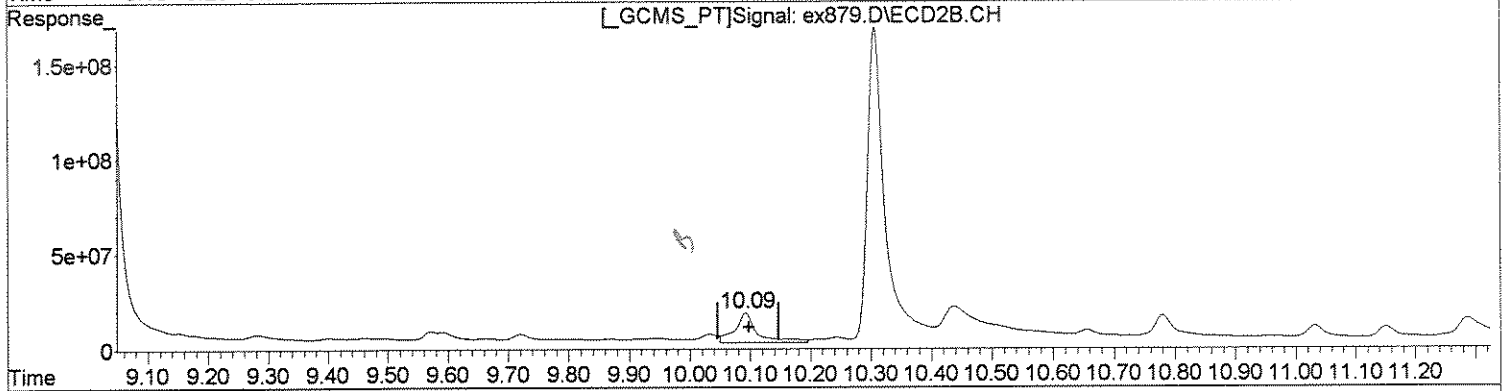
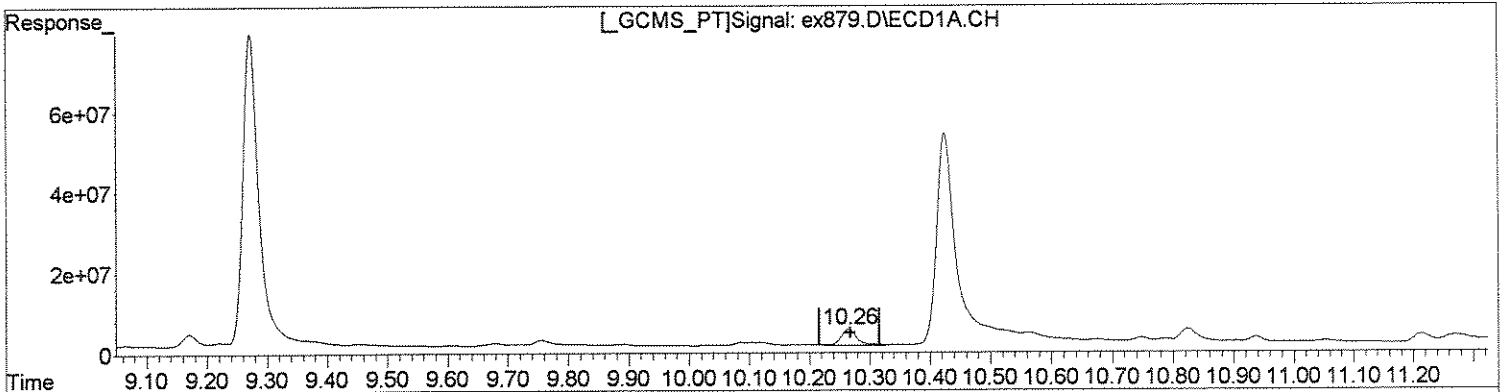
00508

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex879.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 3:42 pm
Operator : M.PEDRO
Sample : 1111764 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:14 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(3) alpha-BHC (tc)
10.26min 2.499ug/l
response 75053514

(3) alpha-BHC #2 (tc)
10.09min 4.381ug/l
response 405137045

Blind

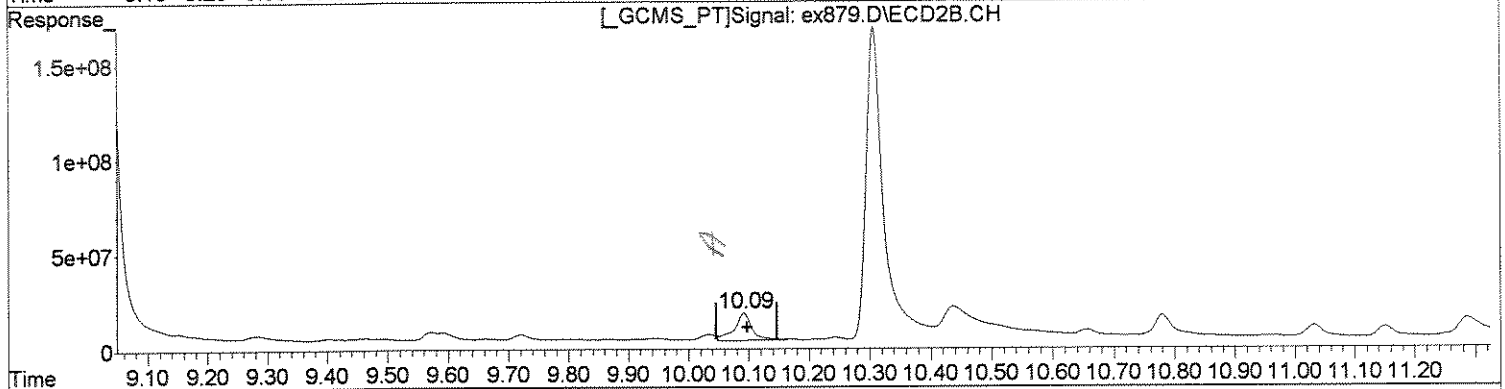
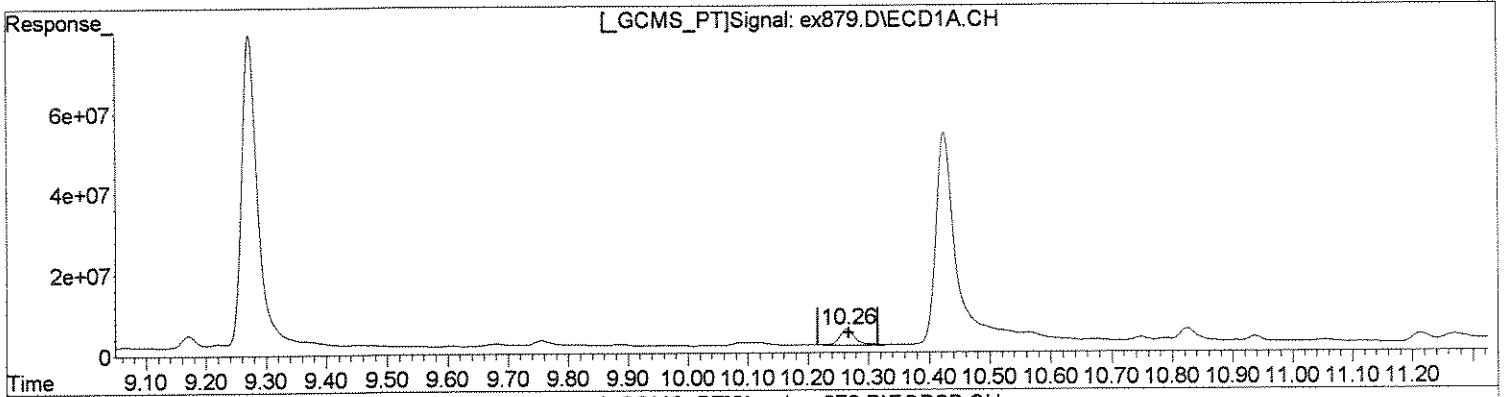
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex879.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 3:42 pm
Operator : M.PEDRO
Sample : 1111764 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:14 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(3) alpha-BHC (tc)
10.26min 2.499ug/l
response 75053514

(3) alpha-BHC #2 (tc)
10.09min 3.187ug/l m
response 294673724

MP 6/27 *MV 4/27*

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX879.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 3:42 pm
 Operator : M.PEDRO
 Sample : 1111764 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:14 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.04	1548.6E6	4873.2E6	82.227	79.867
Spiked Amount	100.000	Range 30 - 150	Recovery =		82.23%	79.87%
25) S SURR2,Decachloro	17.39	17.46	1089.4E6	2604.7E6	63.782	59.672
Spiked Amount	100.000	Range 30 - 150	Recovery =		63.78%	59.67%
Target Compounds						
2) TC HEXACHLORO BENZEN	9.96	9.87	9847685	60946951	0.363	0.693 #
3) tc alpha-BHC	10.26	10.09	75053514	405.1E6	2.499	4.381 #
4) tcm gamma-BHC (L	10.79	10.66	22782671	246.8E6	0.829	3.003 #
6) tcm Aldrin	11.97	11.78	10412960	106.3E6	0.423	1.418 #
8) tc delta-BHC	11.21	0.00	51576785	0	1.865	N.D. #
9) tc Heptachlor E	12.89	0.00	213.0E6	0	9.244	N.D. #
11) tc gamma-Chlord	0.00	12.88	0	105.3E6	N.D.	1.510 #
13) tc 4,4'-DDE	13.37	13.35	13518563	47660761	0.601	0.731
14) tcm Dieldrin	13.80	13.56	26272671	36540413	1.128	0.560 #
15) tcm Endrin	0.00	13.98	0	31690327	N.D.	0.559 #
16) tc KEPONE	0.00	14.17	0	23099349	N.D.	1.350 #
17) tc beta-Endosul	0.00	14.28	0	36893953	N.D.	0.673 #
19) tcm 4,4'-DDT	0.00	14.58	0	63931492	N.D.	1.167 #
21) tc Endosulfan S	15.78	15.18	4719984	22704308	0.260	0.457 #
24) tc Endrin Keton	0.00	15.93	0	1007335	N.D.	0.019 #
26) L8C Toxaphene	14.61	0.00	12275535	0	29.395	N.D. #
28) L8C Toxaphene{3}	0.00	14.81	0	374.2E6	N.D.	226.506 #
29) L8C Toxaphene{4}	0.00	16.08	0	3715307	N.D.	2.284 #
30) L8C Toxaphene{5}	16.35	0.00	19310641	0	28.602	N.D. #
Sum Toxaphene			31586176	377.9E6	57.996	228.790
Average Toxaphene					28.998	114.395
31) L9C Chlordane	11.43	0.00	652.1E6	0	852.144	N.D. #
33) L9C Chlordane{3}	0.00	12.03	0	50498974	N.D.	18.189 #
35) L9C Chlordane{5}	0.00	14.39	0	40603783	N.D.	13.335 #
Sum Chlordane			652.1E6	91102757	852.144	31.524

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX879.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 3:42 pm
 Operator : M.PEDRO
 Sample : 1111764 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:14 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

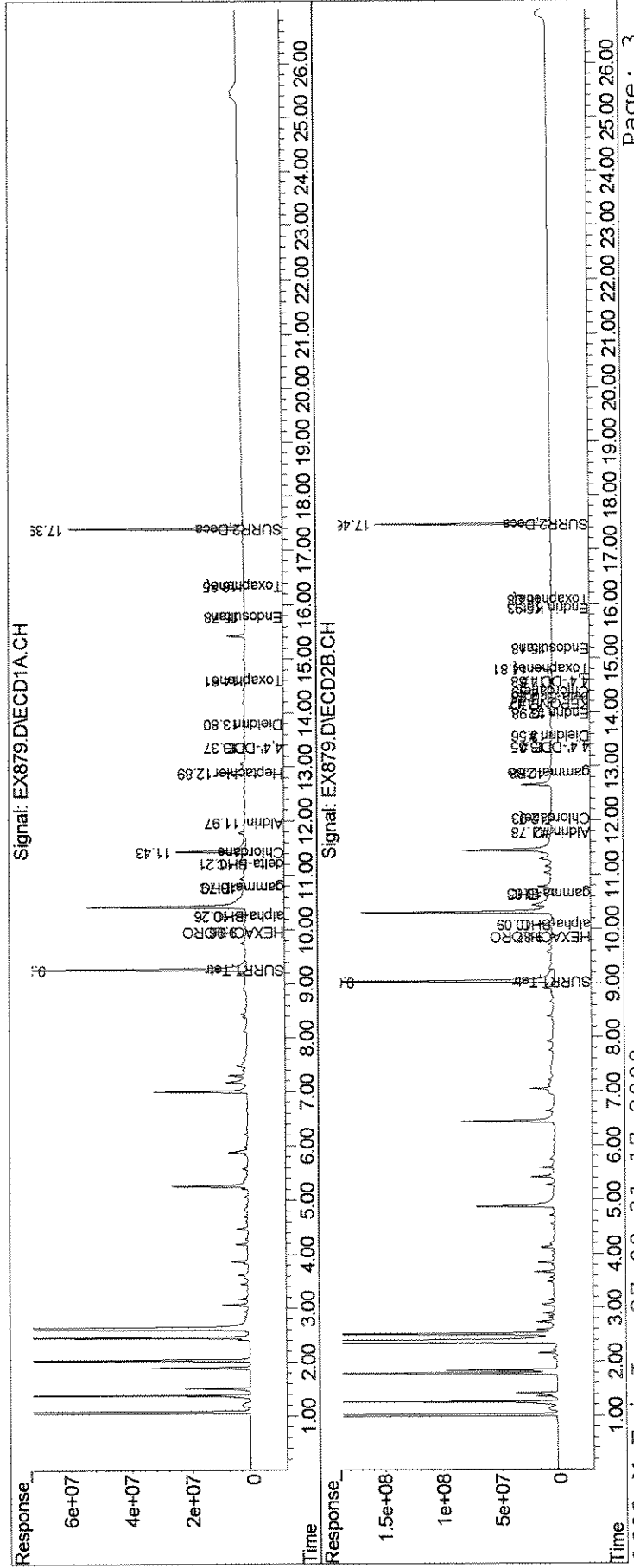
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average Chlordane					852.144	15.762

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX879.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 3:42 pm
 Operator : M.PEDRO
 Sample : 1111764 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:14 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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: 07/30/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-62B

Date Sampled : 06/23/08 10:30 Order #: 1111765 Sample Matrix: WATER
Date Received: 06/24/08 Submission #: R2844538 Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/25/08			
DATE ANALYZED : 06/26/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.047	0.083	UG/L
ALPHA-BHC	0.047	6.3 E	UG/L
BETA-BHC	0.047	11 E	UG/L
GAMMA-BHC	0.047	0.95 E	UG/L
DELTA-BHC	0.047	2.5 E	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.32	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	0.047 U	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 %)	107	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	96	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex880.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 4:18 pm
 Operator : M.PEDRO
 Sample : 1111765 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:24:52 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.04	1810.5E6	4754.7E6	96.134m	77.925m
Spiked Amount	100.000	Range	30 - 150	Recovery	= 96.13%	77.92%
25) S SURR2,Decachloro	17.39	17.46	1831.7E6	4315.4E6	107.238	98.862
Spiked Amount	100.000	Range	30 - 150	Recovery	= 107.24%	98.86%
Target Compounds						
3) tc alpha-BHC	10.27	10.10	40042.5E6	62572.7E6	1333.377	676.705 #
4) tcm gamma-BHC (L	10.79	10.66	5535.1E6	13513.1E6	201.357	164.478
6) tcm Aldrin	12.00	11.76	432.9E6	1026.9E6	17.589m	13.701m
7) tc beta-BHC	10.95	10.82	26575.9E6	59160.9E6	2301.840	1658.424 #
8) tc delta-BHC	11.23	11.25	14619.9E6	39745.6E6	528.620	478.326
11) tc gamma-Chlord	13.09	12.89	1339.3E6	4798.8E6	58.762m	68.826m
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

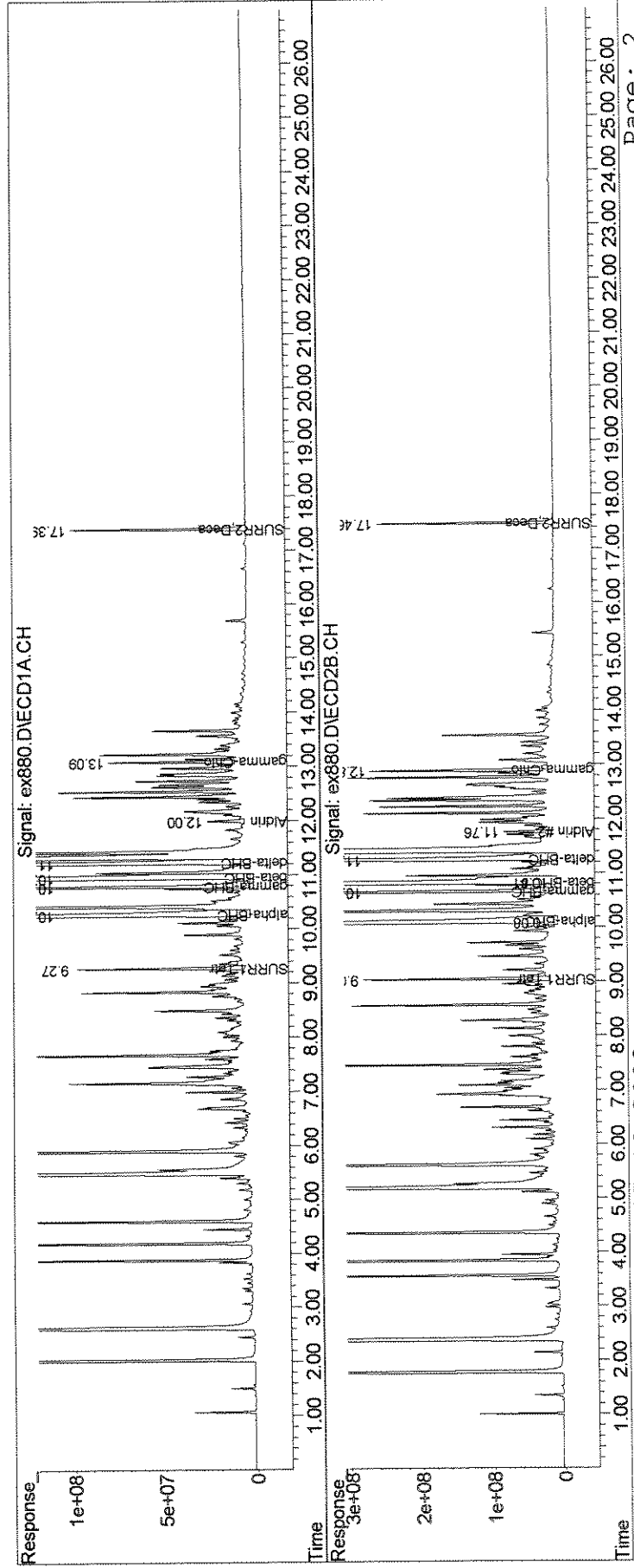
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex880.D
Signal(s) : Signal #1: ECDIA.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:18 pm
Operator : M.PEDRO
Sample : 1111765 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 09:24:52 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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

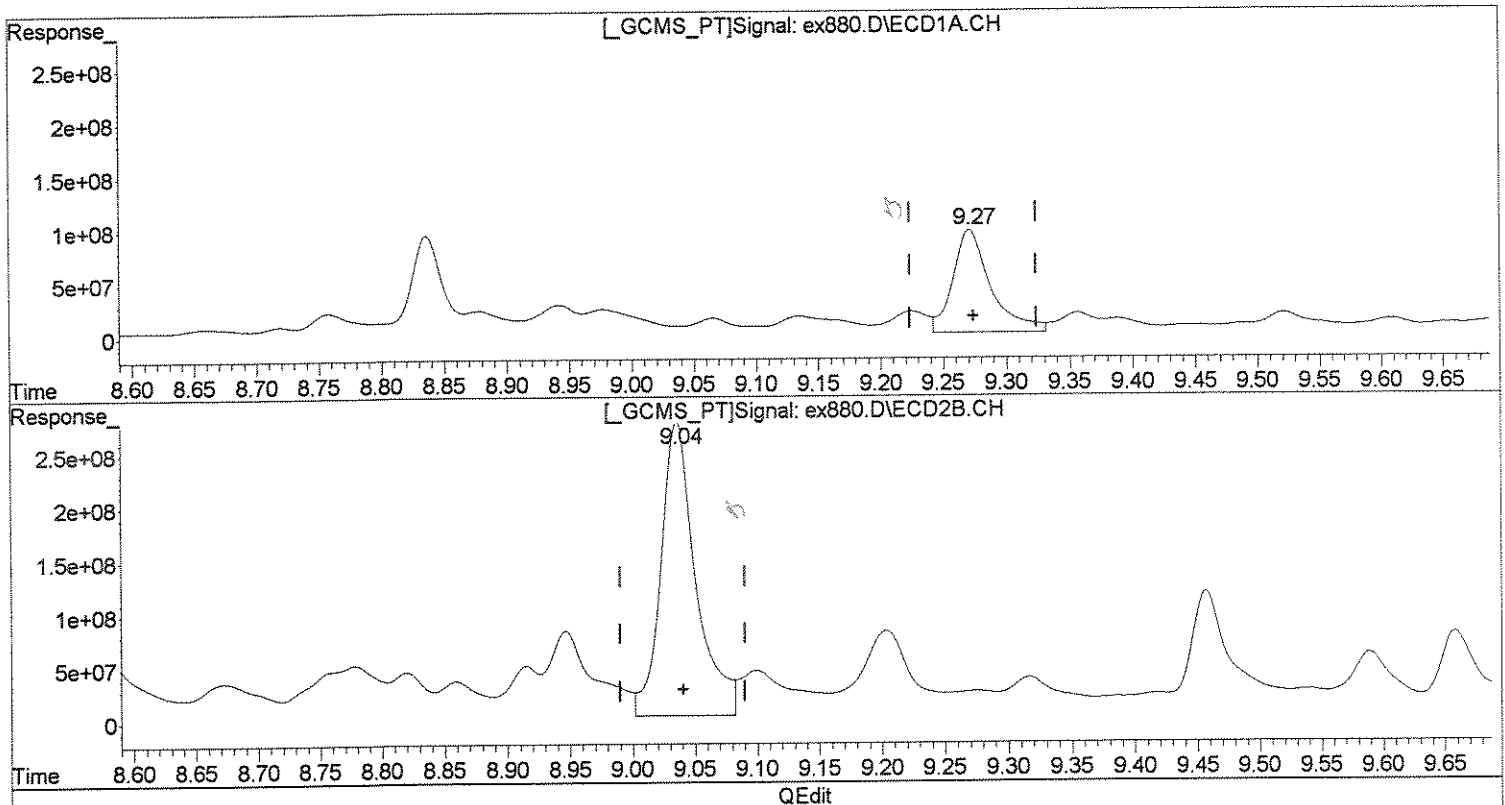


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex880.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 4:18 pm
 Operator : M.PEDRO
 Sample : 1111765 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:19 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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



(1) SURR1,Tetrac (S)
 9.27min 105.775ug/l
 response 1992111268

(1) SURR1,Tetrac #2 (S)
 9.04min 87.520ug/l
 response 5340120066

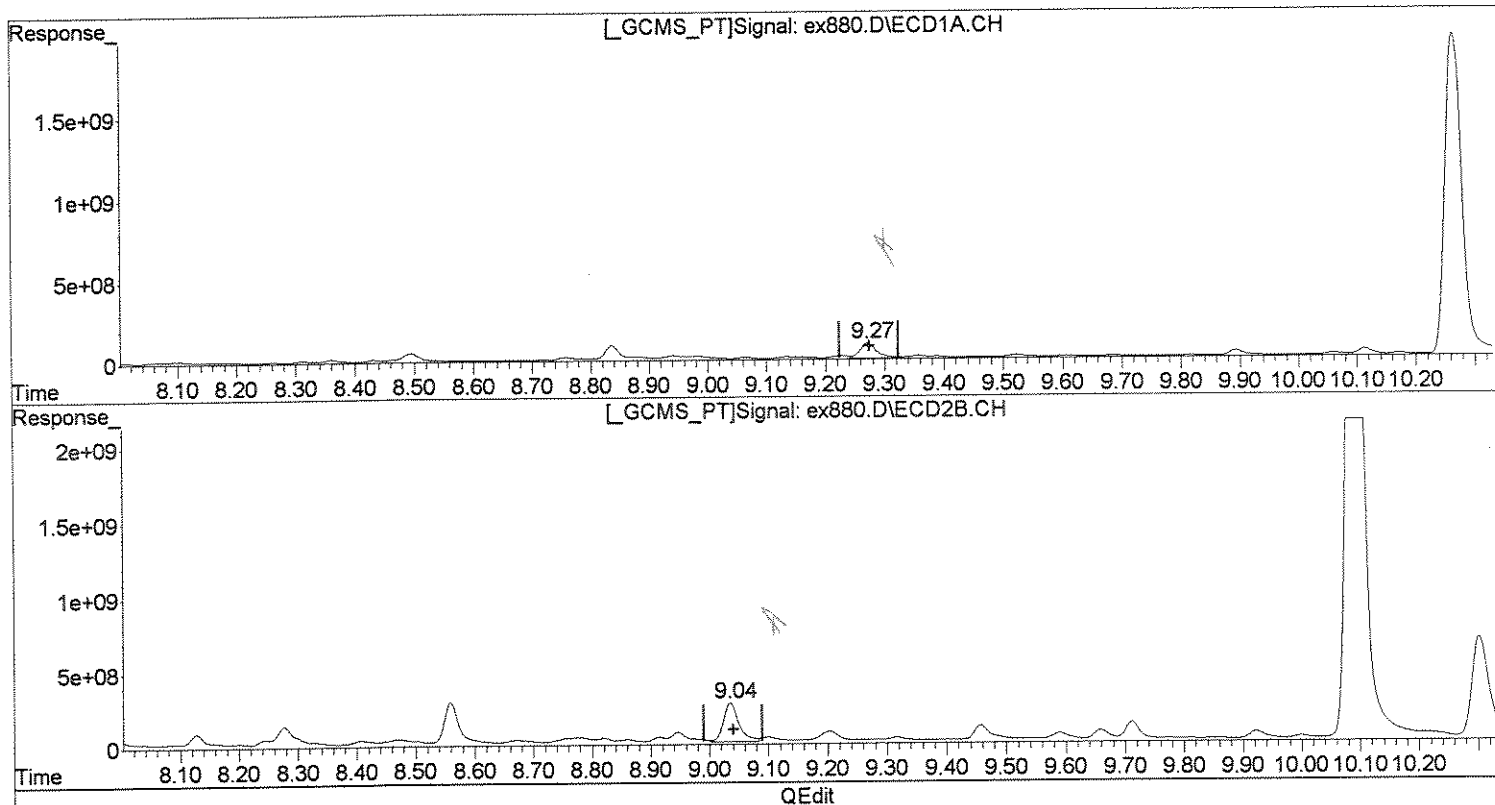
Check

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex880.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:18 pm
Operator : M.PEDRO
Sample : 1111765 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(1) SURR1,Tetrac (S)
9.27min 96.134ug/l m
response 1810535213

(1) SURR1,Tetrac #2 (S)
9.04min 77.925ug/l m
response 4754684128

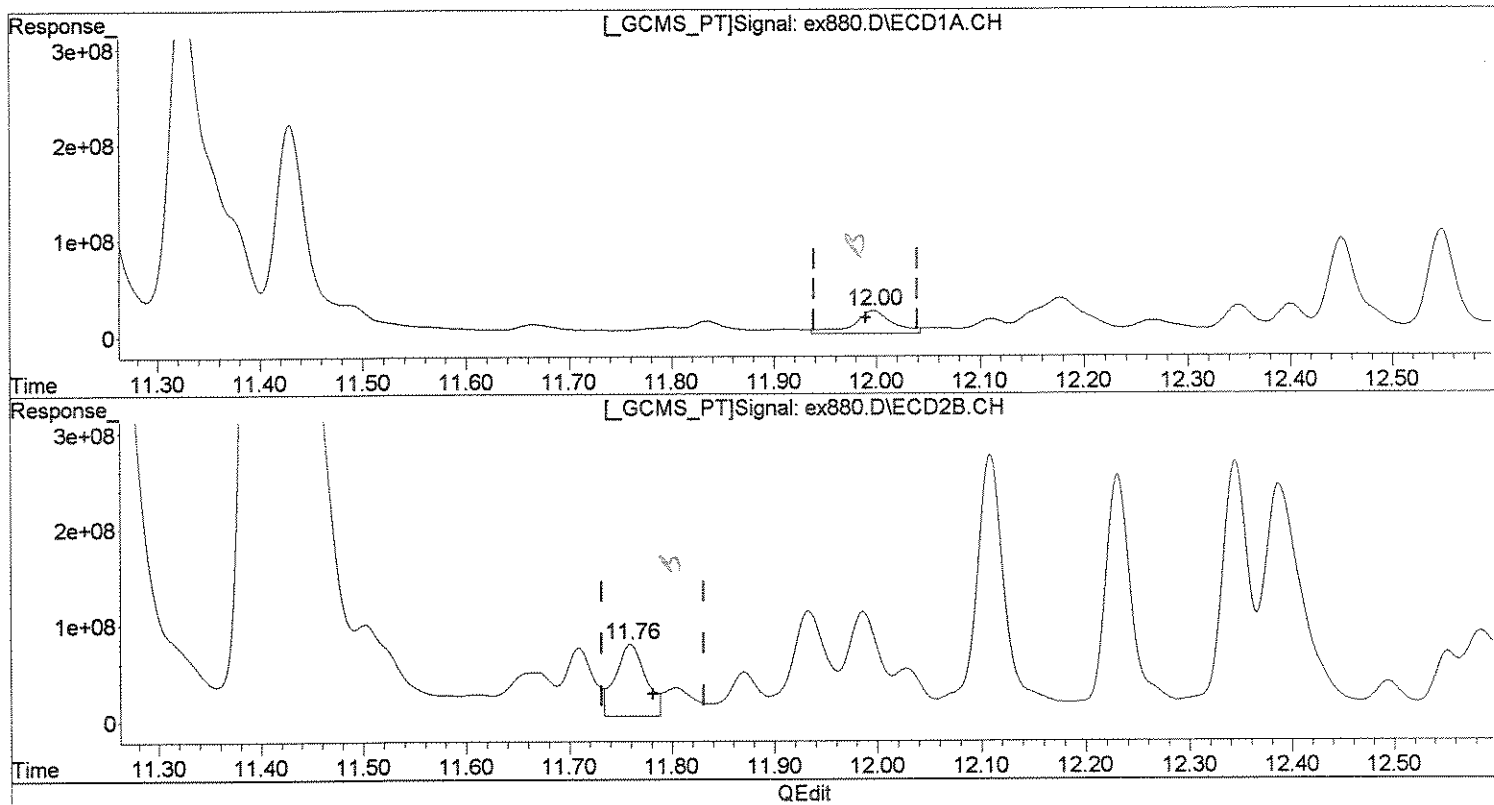
MW
9/27
MW
1/7

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex880.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:18 pm
Operator : M.PEDRO
Sample : 1111765 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(6) Aldrin (tcm)
12.00min 25.291ug/l
response 622477504

(6) Aldrin #2 (tcm)
11.76min 20.335ug/l
response 1524015977

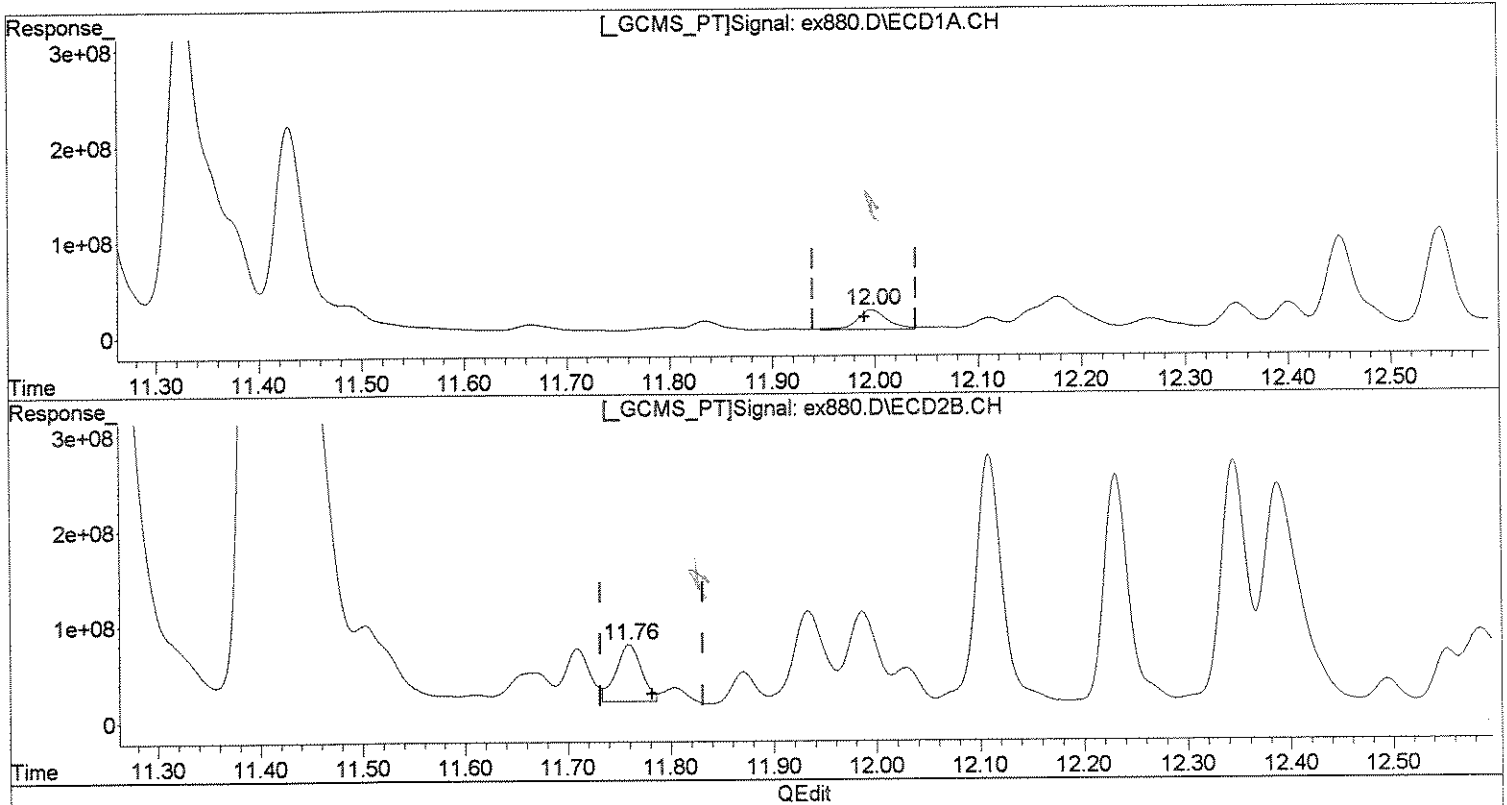
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex880.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:18 pm
Operator : M.PEDRO
Sample : 1111765 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(6) Aldrin (tcm)
12.00min 17.589ug/l m
response 432911149

(6) Aldrin #2 (tcm)
11.76min 13.701ug/l m
response 1026869469

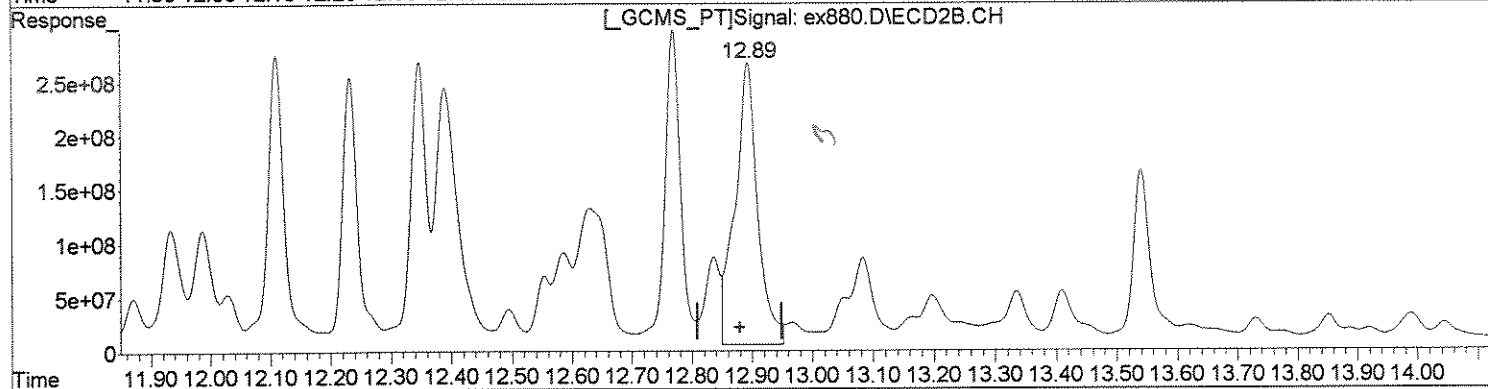
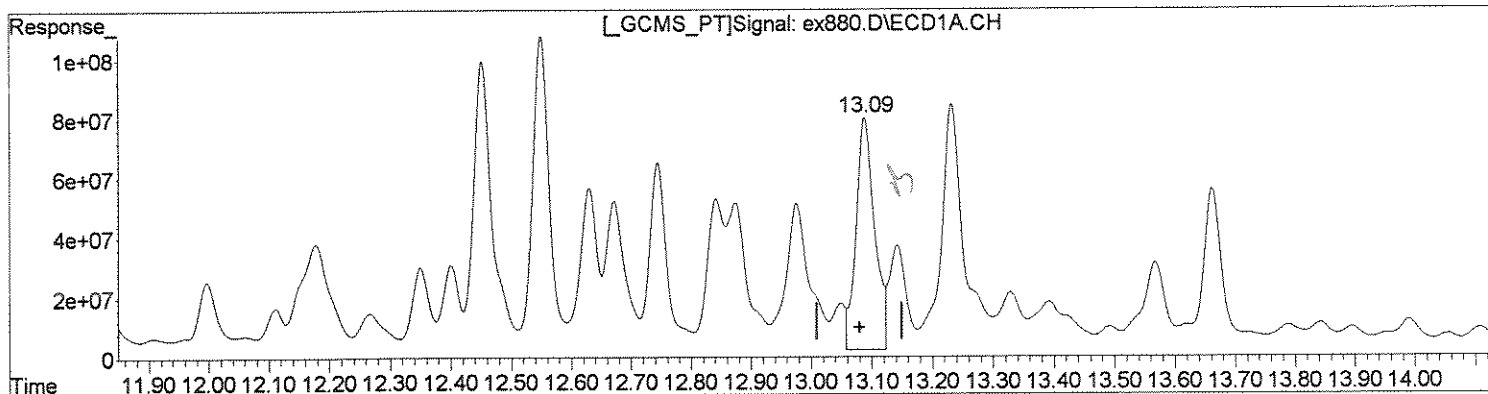
Handwritten notes:
12/27
11/27

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex880.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:18 pm
Operator : M.PEDRO
Sample : 1111765 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



(11) gamma-Chlord (tc)
13.09min 71.993ug/l
response 1640795325

(11) gamma-Chlord #2 (tc)
12.89min 97.852ug/l
response 6822619666

Handwritten signature

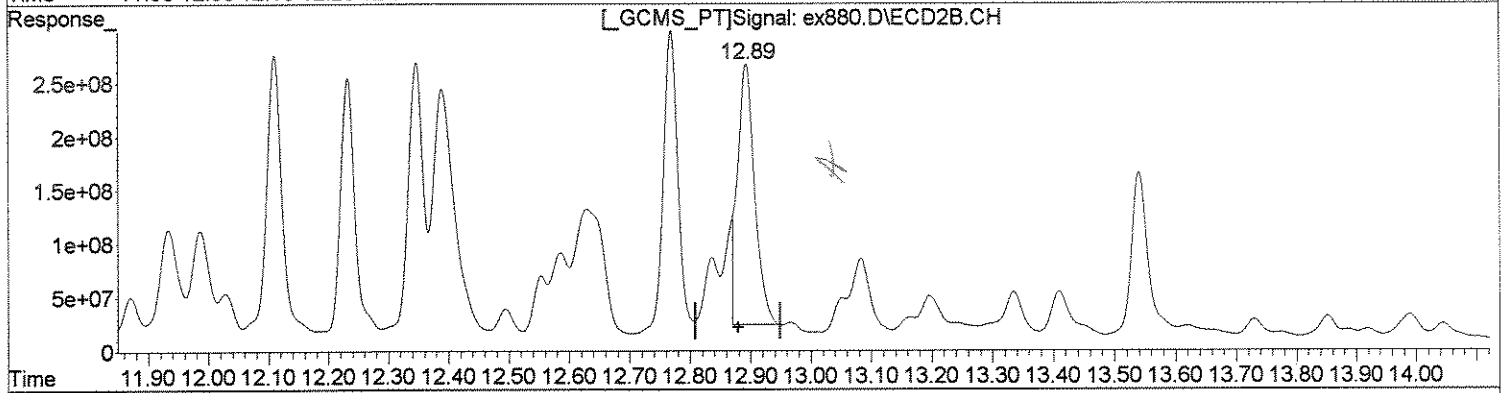
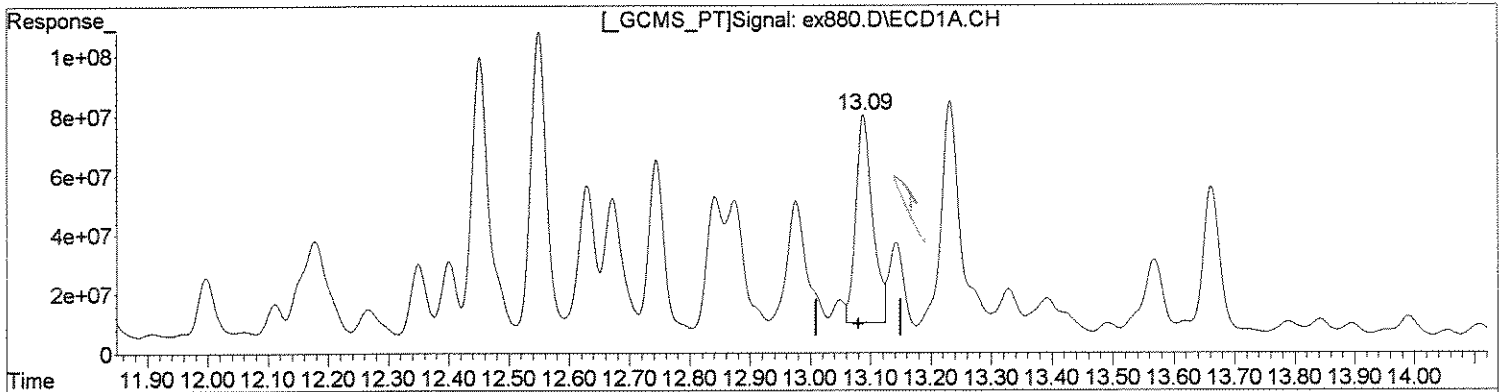
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex880.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:18 pm
Operator : M.PEDRO
Sample : 1111765 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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

(11) gamma-Chlord (tc)
13.09min 58.762ug/l m
response 1339257269

(11) gamma-Chlord #2 (tc)
12.89min 68.826ug/l m
response 4798819004

Handwritten notes:
MPL
6/27

Data Path : J:\ACQUADATA\6890D\DATA\062608\
 Data File : EX880.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 4:18 pm
 Operator : M.PEDRO
 Sample : 1111765 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:19 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.04	1992.1E6	5340.1E6	105.775	87.520
Spiked Amount	100.000	Range 30 - 150	Recovery =	105.77%	87.52%	
25) S SURR2,Decachloro	17.39	17.46	1831.7E6	4315.4E6	107.238	98.862
Spiked Amount	100.000	Range 30 - 150	Recovery =	107.24%	98.86%	
Target Compounds						
2) TC HEXACHLOROBENZEN	9.99	9.86	236.8E6	273.7E6	8.716	3.110 #
3) tc alpha-BHC	10.27	10.10	40042.5E6	62572.7E6	1333.377	676.705 #
4) tcm gamma-BHC (L	10.79	10.66	5535.1E6	13513.1E6	201.357	164.478
6) tcm Aldrin	12.00	11.76	622.5E6	1524.0E6	25.291	20.335
7) tc beta-BHC	10.95	10.82	26575.9E6	59160.9E6	2301.840	1658.424 #
8) tc delta-BHC	11.23	11.25	14619.9E6	39745.6E6	528.620	478.326
9) tc Heptachlor E	12.87	12.59	1167.5E6	1616.8E6	50.669	24.062 #
10) tc alpha-Endosu	13.49	0.00	171.4E6	0	8.318	N.D. #
11) tc gamma-Chlord	13.09	12.89	1640.8E6	6822.6E6	71.993	97.852 #
12) tc alpha-Chlord	0.00	13.08	0	2645.7E6	N.D.	39.835 #
13) tc 4,4'-DDE	13.39	13.33	697.3E6	1526.3E6	31.018	23.417
14) tcm Dieldrin	13.84	13.54	228.6E6	3475.4E6	9.818	53.259 #
15) tcm Endrin	14.15	13.99	204.7E6	756.2E6	9.815	13.331 #
19) tcm 4,4'-DDT	0.00	14.58	0	109.7E6	N.D.	2.002 #
20) tc Endrin Aldeh	0.00	14.77	0	184.1E6	N.D.	4.577 #
21) tc Endosulfan S	0.00	15.17	0	102.6E6	N.D.	2.066 #
22) tc Methoxychlor	15.37	0.00	40178933	0	4.071	N.D. #
23) tc FAMPHUR	0.00	15.33	0	22092038	N.D.	0.695 #
24) tc Endrin Keton	16.16	15.94	14885038	20624180	0.713	0.381 #
26) L8C Toxaphene	14.61	14.41	136.4E6	315.4E6	326.705	192.469 #
27) L8C Toxaphene {2}	0.00	14.69	0	129.4E6	N.D.	168.162 #
28) L8C Toxaphene {3}	15.29	0.00	107.5E6	0	150.306	N.D. #
29) L8C Toxaphene {4}	16.16	16.11	14885038	13576657	16.746	8.347 #
30) L8C Toxaphene {5}	16.34	0.00	15696951	0	23.249	N.D. #
Sum Toxaphene			274.5E6	458.3E6	517.006	368.978
Average Toxaphene					129.251	122.993

Ext
1/50

Data Path : J:\ACQUADATA\6890D\DATA\062608\
 Data File : EX880.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 4:18 pm
 Operator : M.PEDRO
 Sample : 1111765 1.
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:19 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

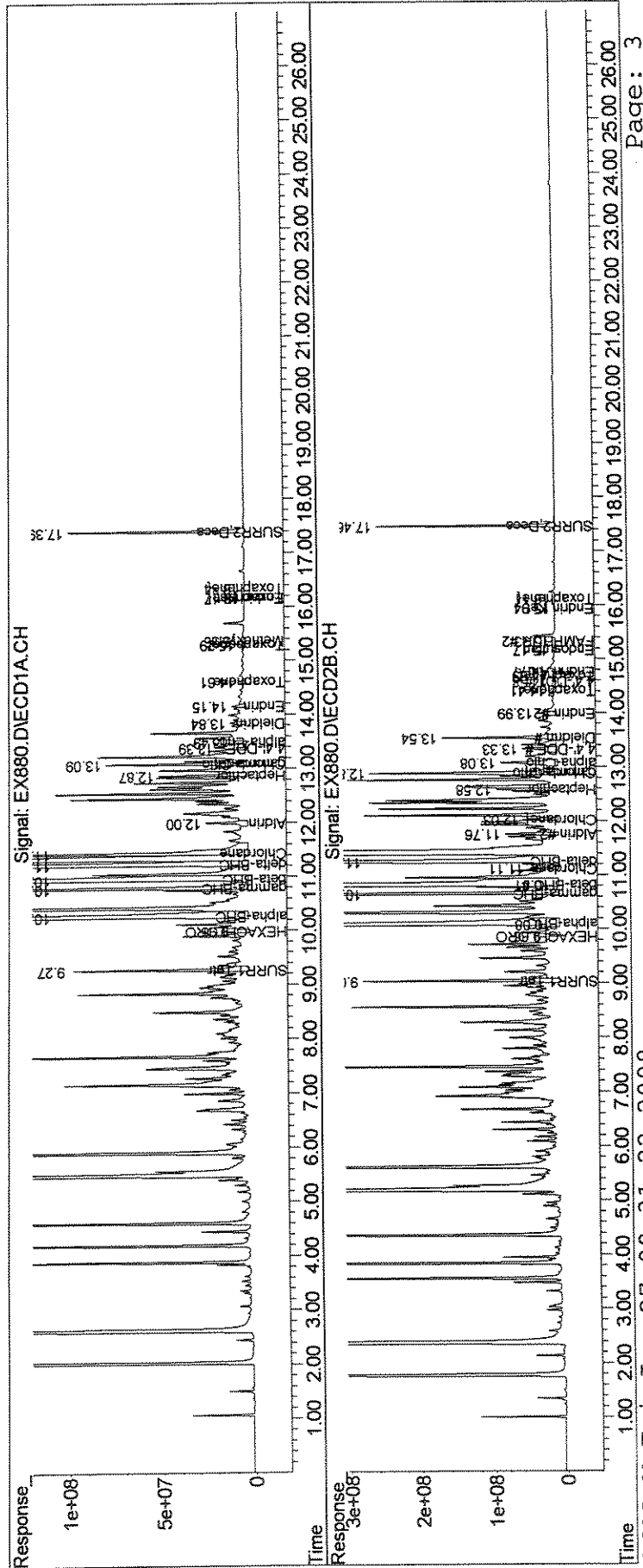
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
1) L9C Chlordane	11.43	11.11	5972.9E6	1031.5E6	7805.331	409.544 #
3) L9C Chlordane{3}	0.00	12.03	0	905.0E6	N.D.	325.990 #
4) L9C Chlordane{4}	13.09	12.89	1640.8E6	6822.6E6	599.516	862.178 #
Sum Chlordane			7613.7E6	8759.1E6	8404.847	1597.713
Average Chlordane					4202.424	532.571

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : EX880.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 4:18 pm
Operator : M.PEDRO
Sample : 1111765 1.
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



00705

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 08/05/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-62B

Date Sampled : 06/23/08 10:30 Order #: 1111765 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/25/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	50.00		
ALDRIN	0.047	2.4 U	UG/L
ALPHA-BHC	0.047	11 D	UG/L
BETA-BHC	0.047	18 D	UG/L
GAMMA-BHC	0.047	2.4 U	UG/L
DELTA-BHC	0.047	3.2 D	UG/L
ALPHA-CHLORDANE	0.047	2.4 U	UG/L
GAMMA-CHLORDANE	0.047	2.4 U	UG/L
CHLORDANE	0.24	12 U	UG/L
4,4'-DDE	0.047	2.4 U	UG/L
4,4'-DDT	0.047	2.4 U	UG/L
DIELDRIN	0.094	4.7 U	UG/L
ALPHA-ENDOSULFAN	0.047	2.4 U	UG/L
BETA-ENDOSULFAN	0.094	4.7 U	UG/L
ENDOSULFAN SULFATE	0.094	4.7 U	UG/L
ENDRIN	0.047	2.4 U	UG/L
ENDRIN ALDEHYDE	0.094	4.7 U	UG/L
ENDRIN KETONE	0.094	4.7 U	UG/L
HEPTACHLOR	0.047	2.4 U	UG/L
HEPTACHLOR EPOXIDE	0.047	2.4 U	UG/L
HEXACHLORO BENZENE	0.047	2.4 U	UG/L
METHOXYCHLOR	0.47	24 U	UG/L
4,4'-TDE (DDD)	0.047	2.4 U	UG/L
TOXAPHENE	0.94	47 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	D	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	D	%

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : ex908.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:50 am
 Operator : M.PEDRO
 Sample : 1111765 50.0 *RB*
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:29:31 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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
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System Monitoring Compounds

Target Compounds

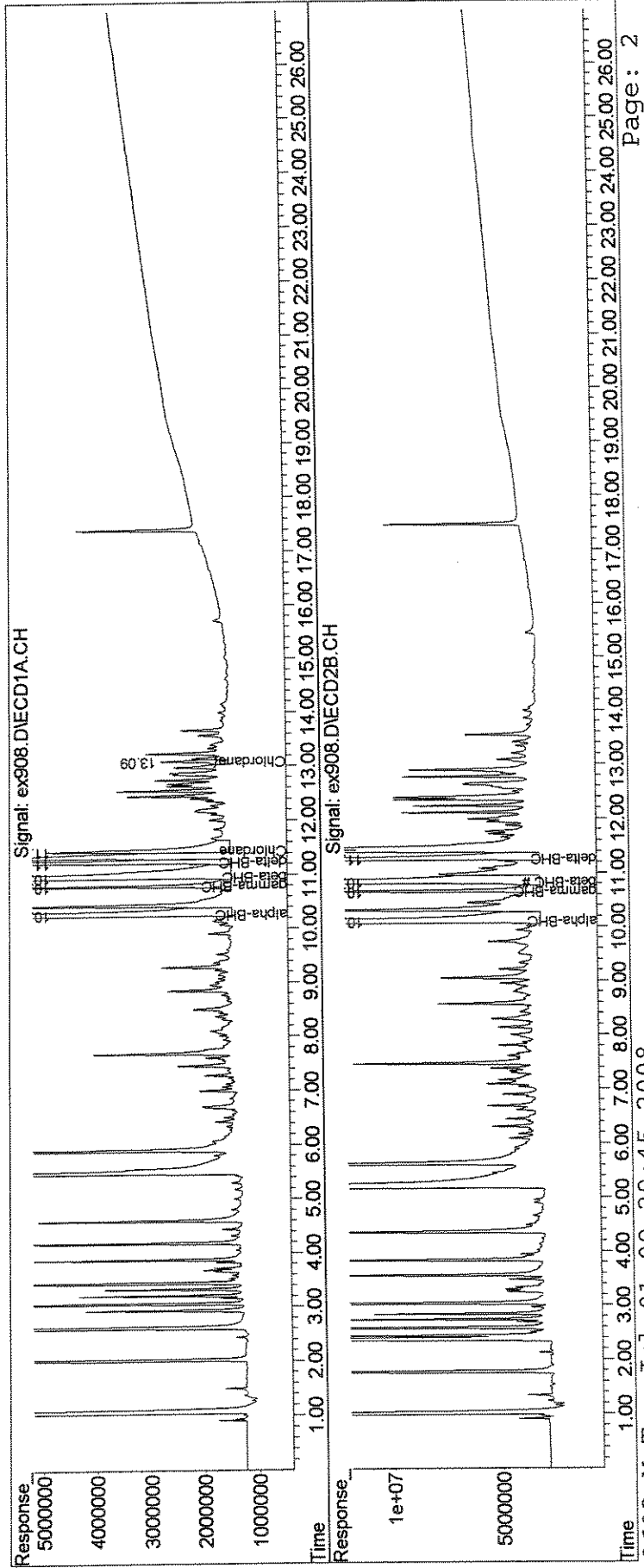
3) tc alpha-BHC	10.27	10.09	1422.0E6	4377.9E6	47.353	47.345
4) tcm gamma-BHC (L)	10.79	10.66	136.8E6	385.8E6	4.975	4.696
7) tc beta-BHC	10.97	10.83	877.2E6	2573.5E6	75.975	72.140
8) tc delta-BHC	11.24	11.26	329.8E6	1123.4E6	11.927	13.519
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
31) L9C Chlordane	11.44	0.00	155.3E6	0	202.942	N.D. d#
34) L9C Chlordane{4}	13.09	0.00	36775631	0	13.437	N.D. d#
Sum Chlordane			192.1E6	0	216.379	N.D.
Average Chlordane					108.189	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:50 am
Operator : M.PEDRO
Sample : 1111765 50.0
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 09:29:31 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : EX908.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:50 am
 Operator : M.PEDRO
 Sample : 1111765 50.0
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:04:55 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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	9.28	9.05	36641449	174.8E6	1.946	2.865 #
Spiked Amount	100.000	Range	30 - 150	Recovery	= 1.95%#	2.87%#
5) S SURR2,Decachloro	17.40	17.46	88024646	125.9E6	5.154	2.884 #
Spiked Amount	100.000	Range	30 - 150	Recovery	= 5.15%#	2.88%#
Target Compounds						
3) tc alpha-BHC	10.27	10.09	1422.0E6	4377.9E6	47.353	47.345
4) tcm gamma-BHC (L	10.79	10.66	136.8E6	385.8E6	4.975	4.696
6) tcm Aldrin	12.01	11.76	12095188	84445200	0.491	1.127 #
7) tc beta-BHC	10.97	10.83	877.2E6	2573.5E6	75.975	72.140
8) tc delta-BHC	11.24	11.26	329.8E6	1123.4E6	11.927	13.519
9) tc Heptachlor E	12.88	12.59	29053145	39512064	1.261	0.588 #
1) tc gamma-Chlord	13.09	12.90	36775631	205.2E6	1.614	2.943 #
2) tc alpha-Chlord	0.00	13.08	0	73053963	N.D.	1.100 #
3) tc 4,4'-DDE	13.40	13.34	13166863	27409101	0.586	0.421 #
4) tcm Dieldrin	0.00	13.54	0	105.9E6	N.D.	1.623 #
5) tcm Endrin	0.00	13.99	0	16012422	N.D.	0.282 #
2) tc Methoxychlor	0.00	15.57	0	1363747	N.D.	0.057 #
6) L8C Toxaphene	0.00	14.42	0	1909117	N.D.	1.165 #
8) L8C Toxaphene{3}	0.00	14.78	0	2761289	N.D.	1.671 #
10) L8C Toxaphene{5}	0.00	16.34	0	252770	N.D.	0.145 #
Sum Toxaphene			0	4923176	N.D.	2.982
Average Toxaphene					0.000	0.994
1) L9C Chlordane	11.44	11.11	155.3E6	64977388	202.942	25.799 #
3) L9C Chlordane{3}	0.00	12.03	0	41808664	N.D.	15.059 #
4) L9C Chlordane{4}	13.09	12.90	36775631	205.2E6	13.437	25.928 #
Sum Chlordane			192.1E6	312.0E6	216.379	66.786
Average Chlordane					108.189	22.262

Handwritten signature

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : EX908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 9:50 am
Operator : M.PEDRO
Sample : 1111765 50.0
Misc : 06/25/08 212 ensr r44538 8081
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:04:55 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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

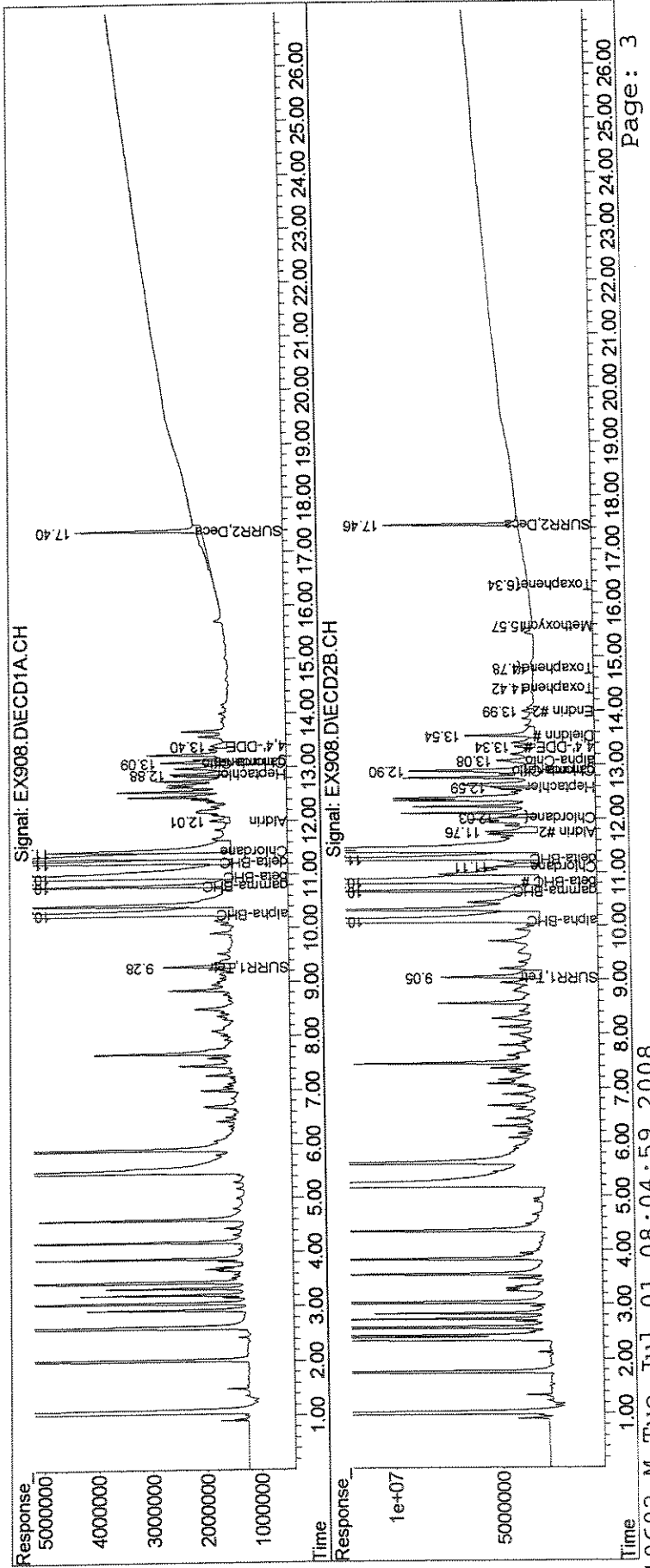
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.						

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX908.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:50 am
 Operator : M.PEDRO
 Sample : 1111765 50.0
 Misc : 06/25/08 212 ensr r44538 8081
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:04:55 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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



00711

PESTICIDES
STANDARDS DATA

**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
Kepon	K/F/HCB	2500	2000	1500	1000	500
Famphur	K/F/HCB	500	400	300	200	100

Pesticide Initial Calibration of Multicomponent Analytes

Lab Name: Columbia Analytical Services Client: ENSR
 Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B
 Instrument ID: 6890D Date Analyzed: 6/2/2008

GC Column(1) <u>STx-CLP</u> (ID): <u>0.32mm 30</u>				GC Column(2) <u>STx-CLPII</u> (ID): <u>0.32mm 30</u>		
Compound	RT	RT Window		RT	RT Window	
		From	To		From	To
SURR1,Tetrac	9.28	9.23	9.33	9.06	9.01	9.11
HEXACHLOROBEN	9.98	9.91	10.05	9.87	9.80	9.94
alpha-BHC	10.28	10.23	10.33	10.12	10.07	10.17
gamma-BHC (L	10.81	10.76	10.86	10.68	10.63	10.73
Heptachlor	11.55	11.50	11.60	11.34	11.29	11.39
Aldrin	12.01	11.96	12.06	11.81	11.76	11.86
beta-BHC	10.96	10.91	11.01	10.84	10.79	10.89
delta-BHC	11.24	11.19	11.29	11.27	11.22	11.32
Heptachlor E	12.92	12.85	12.99	12.64	12.57	12.71
alpha-Endosu	13.49	13.42	13.56	13.18	13.11	13.25
gamma-Chlord	13.10	13.03	13.17	12.91	12.84	12.98
alpha-Chlord	13.29	13.22	13.36	13.11	13.04	13.18
4,4'-DDE	13.40	13.33	13.47	13.36	13.29	13.43
Dieldrin	13.84	13.77	13.91	13.57	13.50	13.64
Endrin	14.18	14.11	14.25	14.00	13.93	14.07
KEPONE	14.24	14.17	14.31	14.16	14.09	14.23
beta-Endosul	14.52	14.45	14.59	14.30	14.23	14.37
4,4'-DDD	14.27	14.20	14.34	14.17	14.10	14.24
4,4'-DDT	14.67	14.60	14.74	14.61	14.54	14.68
Endrin Aldeh	15.15	15.08	15.22	14.79	14.72	14.86
Endosulfan S	15.79	15.72	15.86	15.19	15.12	15.26
Methoxychlor	15.37	15.30	15.44	15.59	15.52	15.66
FAMPHUR	16.08	16.01	16.15	15.31	15.24	15.38
Endrin Keton	16.19	16.12	16.26	15.96	15.89	16.03
SURR2,Decachlorobip	17.42	17.32	17.52	17.50	17.40	17.60
Toxaphene	14.60	14.53	14.67	14.42	14.35	14.49
Toxaphene	14.68	14.61	14.75	14.70	14.63	14.77
Toxaphene	15.29	15.22	15.36	14.80	14.73	14.87

Pesticide Initial Calibration of Multicomponent Analytes

Lab Name: Columbia Analytical Services Client: ENSR
 Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B
 Instrument ID: 6890D Date Analyzed: 6/2/2008

GC Column(1) STx-CLP (ID): 0.32mm 30 GC Column(2) STx-CLPII (ID): 0.32mm 30

Compound	RT	RT Window		RT	RT Window	
		From	To		From	To
Toxaphene	16.15	16.08	16.22	16.09	16.02	16.16
Toxaphene	16.35	16.28	16.42	16.33	16.26	16.40
Chlordane	11.43	11.36	11.50	11.12	11.05	11.19
Chlordane	11.55	11.48	11.62	11.34	11.27	11.41
Chlordane	12.22	12.15	12.29	12.05	11.98	12.12
Chlordane	13.10	13.03	13.17	12.90	12.83	12.97
Chlordane	14.41	14.34	14.48	14.37	14.30	14.44

Response Factor Report 6890D

Method Path : J:\ACQUDATA\6890D\METHODS\
 Method File : 80810602.M
 Title : 608/8081A PESTICIDES
 Last Update : Tue Jun 03 09:00:21 2008
 Response Via : Initial Calibration

Calibration Files

1 =ex660.D 2 =ex659.D 3 =ex658.D
 4 =ex657.D 5 =ex656.D

Compound	1	2	3	4	5	Avg	%RSD
1) S SURR1,Tetrac	1.925	2.130	1.853	1.779	1.729	1.883 E7	8.31
2) TC HEXACHLORO BENZENE	2.652	2.592	2.667	2.754	2.916	2.716 E7	4.64
3) tc alpha-BHC	3.165	3.502	3.000	2.771	2.578	3.003 E7	11.89
4) tcm gamma-BHC (L	2.852	3.162	2.745	2.566	2.420	2.749 E7	10.34
5) tcm Heptachlor	2.730	3.050	2.681	2.541	2.453	2.691 E7	8.51
6) tcm Aldrin	2.583	2.605	2.471	2.338	2.310	2.461 E7	5.52
7) tc beta-BHC	1.157	1.170	1.155	1.116	1.175	1.155 E7	2.02
8) TC delta-BHC	2.951	2.956	2.812	2.569	2.539	2.766 E7	7.30
9) tc Heptachlor E	2.345	2.392	2.302	2.212	2.269	2.304 E7	3.02
10) tc alpha-Endosu	2.091	2.328	2.040	1.940	1.904	2.060 E7	8.12
11) tc gamma-Chlord	2.389	2.400	2.275	2.145	2.187	2.279 E7	5.06
12) tc alpha-Chlord	2.325	2.337	2.227	2.115	2.170	2.235 E7	4.30
13) tc 4,4'-DDE	2.323	2.391	2.274	2.122	2.131	2.248 E7	5.27
14) tcm Dieldrin	2.328	2.646	2.344	2.212	2.111	2.328 E7	8.65
15) tcm Endrin	2.098	2.377	2.095	1.965	1.895	2.086 E7	8.83
16) tc KEPONE	6.931	6.892	6.829	5.787	4.853	6.258 E6	14.69
17) tc beta-Endosul	1.999	2.042	1.988	1.872	1.928	1.966 E7	3.39
18) tc 4,4'-DDD	1.935	2.170	1.875	1.723	1.701	1.881 E7	10.08
19) tcm 4,4'-DDT	2.071	2.268	2.017	1.879	1.780	2.003 E7	9.34
20) tc Endrin Aldeh	1.539	1.564	1.482	1.393	1.413	1.478 E7	5.09
21) tc Endosulfan S	1.859	1.899	1.824	1.720	1.767	1.814 E7	3.92
22) tc Methoxychlor	0.930	1.078	0.991	0.970	0.966	0.987 E7	5.64
23) tc FAMPHUR	1.310	1.286	1.324	1.268	1.311	1.300 E7	1.72
24) tc Endrin Keton	2.131	2.180	2.099	1.982	2.050	2.088 E7	3.65
25) S SURR2,Decachlorobiphe	1.699	1.885	1.681	1.626	1.649	1.708 E7	6.02
26) L8C Toxaphene	4.703	4.605	4.136	4.256	3.181	4.176 E5	14.46
27) L8C Toxaphene {2}	3.919	4.111	3.444	4.126	3.146	3.749 E5	11.62
28) L8C Toxaphene {3}	7.901	7.721	6.844	6.925	6.366	7.151 E5	8.98
29) L8C Toxaphene {4}	0.949	1.070	0.823	0.838	0.764	0.889 E6	13.68
30) L8C Toxaphene {5}	7.640	7.430	6.483	6.462	5.743	6.752 E5	11.52
31) L9C Chlordane	8.010	7.729	7.578	7.519	7.426	7.652 E5	2.98
32) L9C Chlordane {2}	1.150	1.112	1.082	1.057	1.038	1.088 E6	4.08
33) L9C Chlordane {3}	0.979	0.974	0.991	1.011	1.043	1.000 E6	2.80
34) L9C Chlordane {4}	2.935	2.854	2.742	2.657	2.497	2.737 E6	6.25
35) L9C Chlordane {5}	0.981	0.952	0.977	0.887	1.004	0.960 E6	4.68

Signal #2 Calibration Files

1 =ex660.D 2 =ex659.D 3 =ex658.D
 4 =ex657.D 5 =ex656.D

Compound	1	2	3	4	5	Avg	%RSD
1) S SURR1,Tetrac	5.873	6.681	6.063	5.964	5.927	6.102 E7	5.43
2) TC HEXACHLORO BENZENE	8.231	8.165	8.560	9.084	9.957	8.800 E7	8.43
3) tc alpha-BHC	0.916	1.039	0.928	0.888	0.853	0.925 E8	7.59
4) tcm gamma-BHC (L	8.206	9.266	8.201	7.849	7.558	8.216 E7	7.87

Method Path : J:\ACQUDATA\6890D\METHODS\
 Method File : 80810602.M
 Title : 608/8081A PESTICIDES
 Last Update : Tue Jun 03 09:00:21 2008
 Response Via : Initial Calibration

Calibration Files

1 =ex660.D 2 =ex659.D 3 =ex658.D
 4 =ex657.D 5 =ex656.D

Compound	1	2	3	4	5	Avg		%RSD
5) tcm Heptachlor	7.485	8.719	8.031	7.896	7.800	7.986	E7	5.71
6) tcm Aldrin	7.282	7.644	7.573	7.427	7.546	7.495	E7	1.90
7) tc beta-BHC	3.525	3.615	3.538	3.462	3.696	3.567	E7	2.52
8) tc delta-BHC	8.469	8.703	8.429	7.926	8.020	8.309	E7	3.92
9) tc Heptachlor E	6.361	6.741	6.790	6.728	6.977	6.719	E7	3.33
10) tc alpha-Endosu	5.664	6.526	5.993	5.824	5.787	5.959	E7	5.68
11) tc gamma-Chlord	6.880	7.129	7.015	6.792	7.046	6.972	E7	1.94
12) tc alpha-Chlord	6.545	6.788	6.665	6.460	6.749	6.642	E7	2.07
13) tc 4,4'-DDE	6.270	6.676	6.594	6.387	6.662	6.518	E7	2.77
14) tcm Dieldrin	6.061	7.117	6.606	6.464	6.379	6.525	E7	5.92
15) tcm Endrin	5.315	6.211	5.729	5.608	5.498	5.672	E7	5.95
16) tc KEPONE	1.928	1.783	1.838	1.656	1.349	1.711	E7	13.17
17) tc beta-Endosul	5.160	5.510	5.551	5.449	5.754	5.485	E7	3.92
18) tc 4,4'-DDD	5.097	5.821	5.220	4.961	4.717	5.163	E7	7.99
19) tcm 4,4'-DDT	5.425	6.182	5.522	5.232	5.039	5.480	E7	7.92
20) tc Endrin Aldeh	3.929	4.109	4.068	3.957	4.054	4.023	E7	1.91
21) tc Endosulfan S	4.806	5.055	5.011	4.872	5.073	4.963	E7	2.37
22) tc Methoxychlor	2.220	2.578	2.423	2.407	2.431	2.412	E7	5.29
23) tc FAMPHUR	3.166	3.056	3.265	3.147	3.260	3.179	E7	2.74
24) tc Endrin Keton	5.214	5.483	5.467	5.314	5.590	5.414	E7	2.75
25) S SURR2,Decachlorobiphe	4.261	4.836	4.330	4.192	4.206	4.365	E7	6.16
26) L8C Toxaphene	1.687	1.658	1.528	1.586	1.734	1.638	E6	5.01
27) L8C Toxaphene {2}	8.062	7.825	7.291	7.360	7.927	7.693	E5	4.51
28) L8C Toxaphene {3}	1.732	1.710	1.571	1.609	1.639	1.652	E6	4.10
29) L8C Toxaphene {4}	1.740	1.710	1.539	1.602	1.541	1.627	E6	5.77
30) L8C Toxaphene {5}	1.971	1.905	1.665	1.667	1.501	1.742	E6	11.06
31) L9C Chlordane	2.498	2.516	2.525	2.513	2.541	2.519	E6	0.62
32) L9C Chlordane {2}	3.444	3.458	3.442	3.385	3.372	3.420	E6	1.13
33) L9C Chlordane {3}	2.648	2.700	2.787	2.841	2.906	2.776	E6	3.76
34) L9C Chlordane {4}	8.009	8.075	8.004	7.850	7.629	7.913	E6	2.27
35) L9C Chlordane {5}	2.970	2.943	2.964	3.078	3.269	3.045	E6	4.46

(#) = Out of Range

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX656.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 9:37 am
 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: Jun 03 08:24:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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	9.28	9.06	86472816	296.4E6	4.585	5.039
Spiked Amount	100.000	Range 30 - 150	Recovery =		4.59%#	5.04%#
25) S SURR2,Decachloro	17.42	17.50	164.9E6	420.6E6	9.501	9.286
Spiked Amount	100.000	Range 30 - 150	Recovery =		9.50%#	9.29%#
Target Compounds						
3) tc alpha-BHC	10.28	10.12	128.9E6	426.3E6	4.444	4.589
4) tcm gamma-BHC (L)	10.81	10.68	121.0E6	377.9E6	4.546	4.587
5) tcm Heptachlor	11.55	11.34	122.6E6	390.0E6	4.624	4.840
10) tc alpha-Endosu	13.49	13.18	95185448	289.3E6	4.680	4.824
14) tcm Dieldrin	13.84	13.57	211.1E6	637.9E6	9.259	9.764
15) tcm Endrin	14.18	14.00	189.5E6	549.8E6	9.685	9.774
18) tc 4,4'-DDD	14.27	14.17	170.1E6	471.7E6	9.585	9.173
19) tcm 4,4'-DDT	14.67	14.61	178.0E6	503.9E6	9.283	9.185
22) tc Methoxychlor	15.37	15.59	483.0E6	1215.3E6	51.387	51.014
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

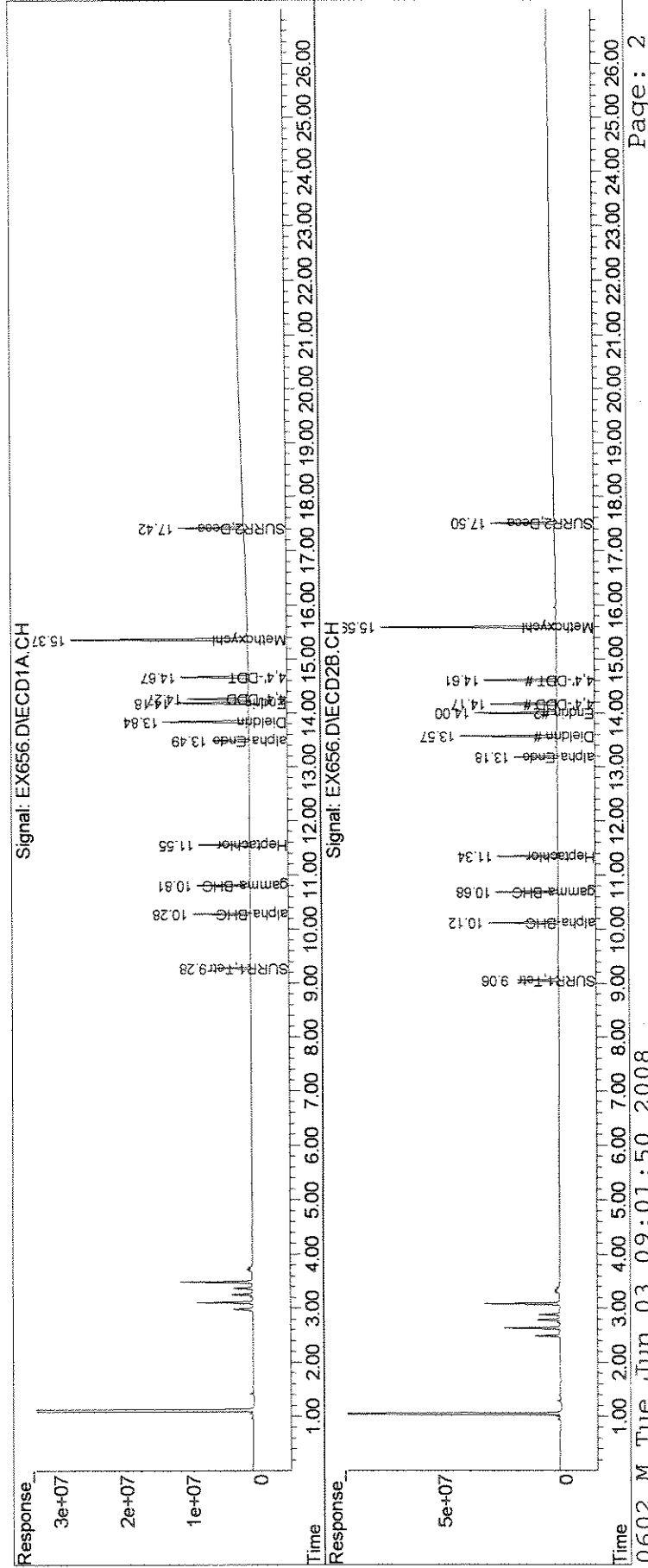
up 6/3

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX656.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 9:37 am
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: Jun 03 08:24:45 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX657.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:12 am
 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: Jun 03 08:26:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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

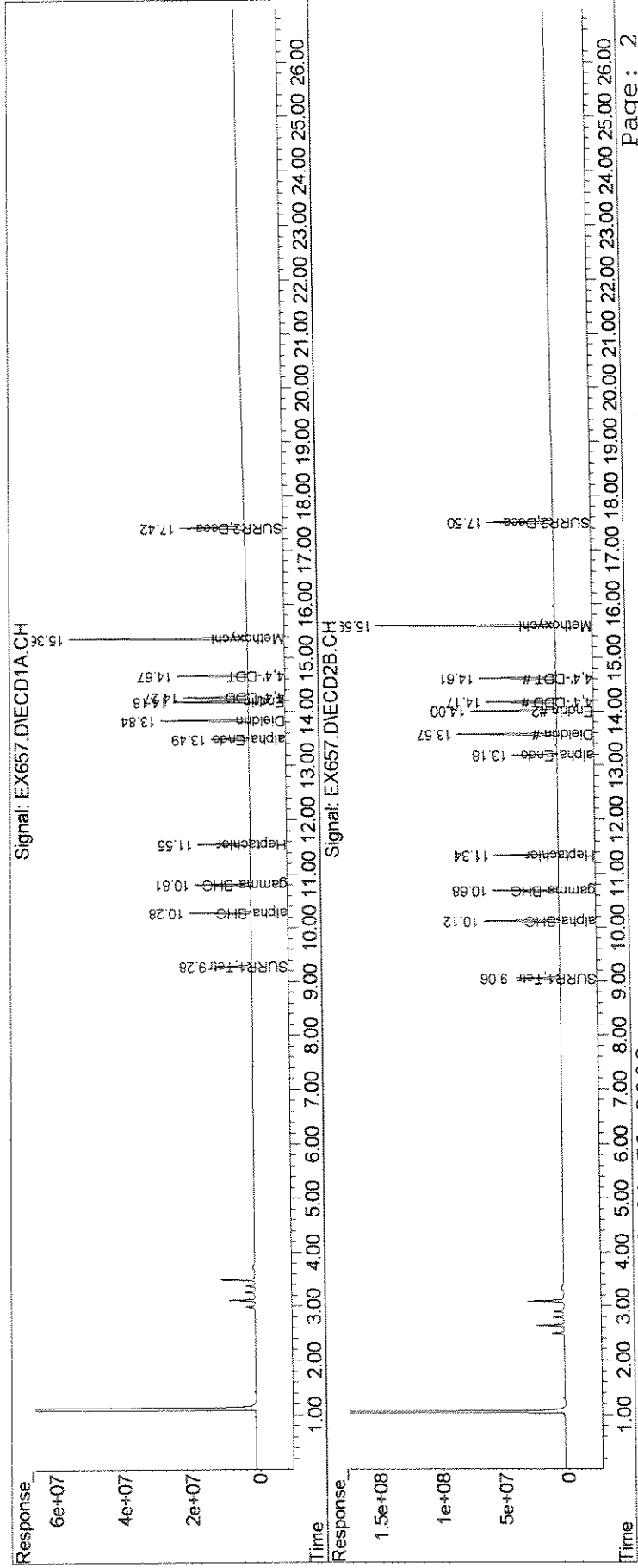
System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.06	177.9E6	596.4E6	9.432	10.139
Spiked Amount	100.000	Range 30 - 150	Recovery =		9.43%#	10.14%#
25) S SURR2,Decachloro	17.42	17.50	325.1E6	838.4E6	18.735m	18.512m
Spiked Amount	100.000	Range 30 - 150	Recovery =		18.73%#	18.51%#
Target Compounds						
3) tc alpha-BHC	10.28	10.12	277.1E6	887.7E6	9.555	9.556
4) tcm gamma-BHC (L	10.81	10.68	256.6E6	784.9E6	9.639	9.527
5) tcm Heptachlor	11.55	11.34	254.1E6	789.6E6	9.580	9.798
10) tc alpha-Endosu	13.49	13.18	194.0E6	582.4E6	9.536	9.711
14) tcm Dieldrin	13.84	13.57	442.3E6	1292.9E6	19.400	19.790
15) tcm Endrin	14.18	14.00	392.9E6	1121.5E6	20.080	19.937
18) tc 4,4'-DDD	14.27	14.17	344.6E6	992.2E6	19.419	19.298
19) tcm 4,4'-DDT	14.67	14.61	375.8E6	1046.3E6	19.593	19.074
22) tc Methoxychlor	15.37	15.59	969.8E6	2406.6E6	103.167	101.019
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.

Data Path : J:\ACQDATA\6890D\DATA\060208\
 Data File : EX657.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:12 am
 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: Jun 03 08:26:11 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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



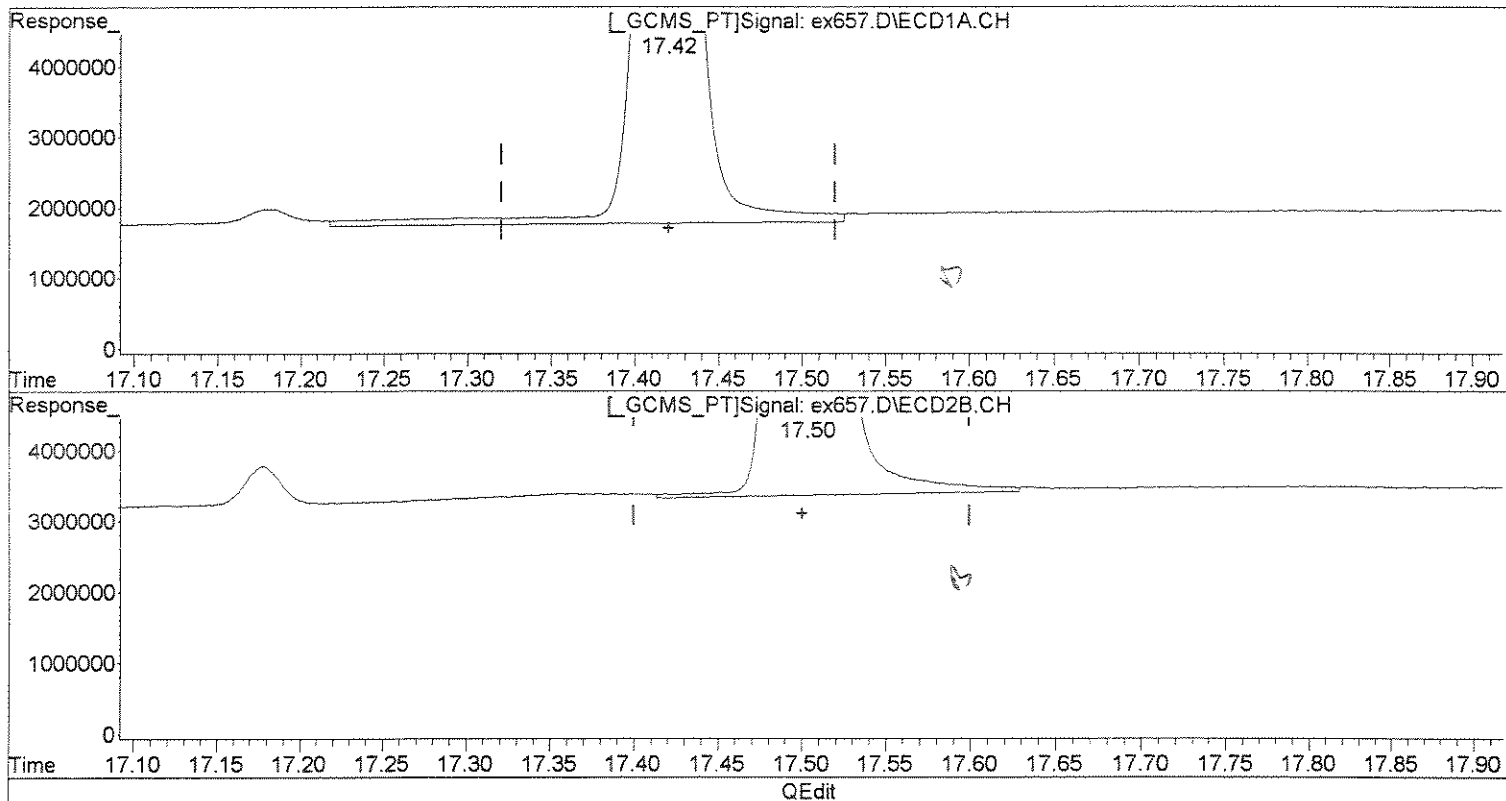
00721

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : ex657.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 10:12 am
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: Jun 03 08:05:36 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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)
17.42min 19.731ug/l
response 342426591

(25) SURR2,Decachlorobiphenyl #2 (S)
17.50min 18.605ug/l
response 842638297

Handwritten mark

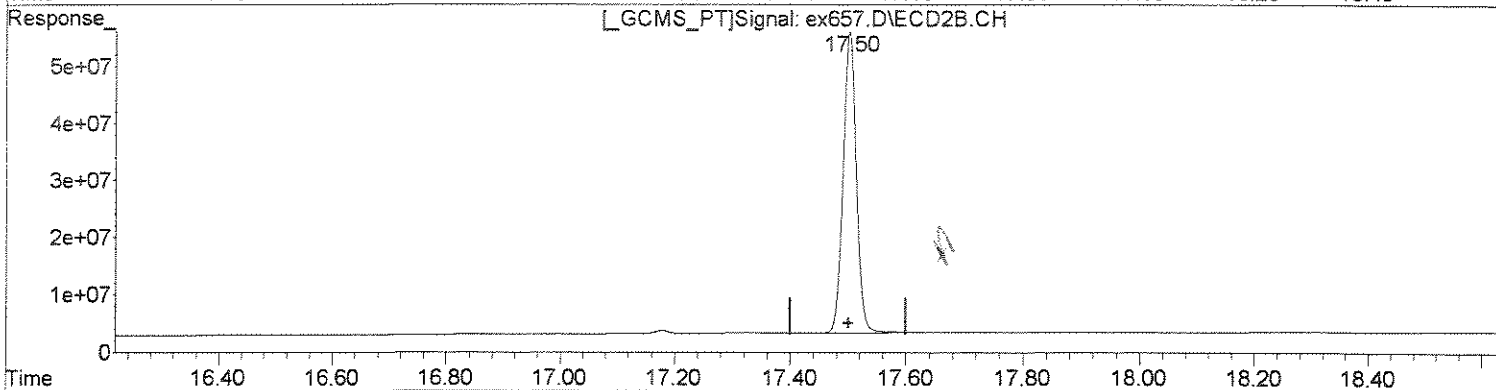
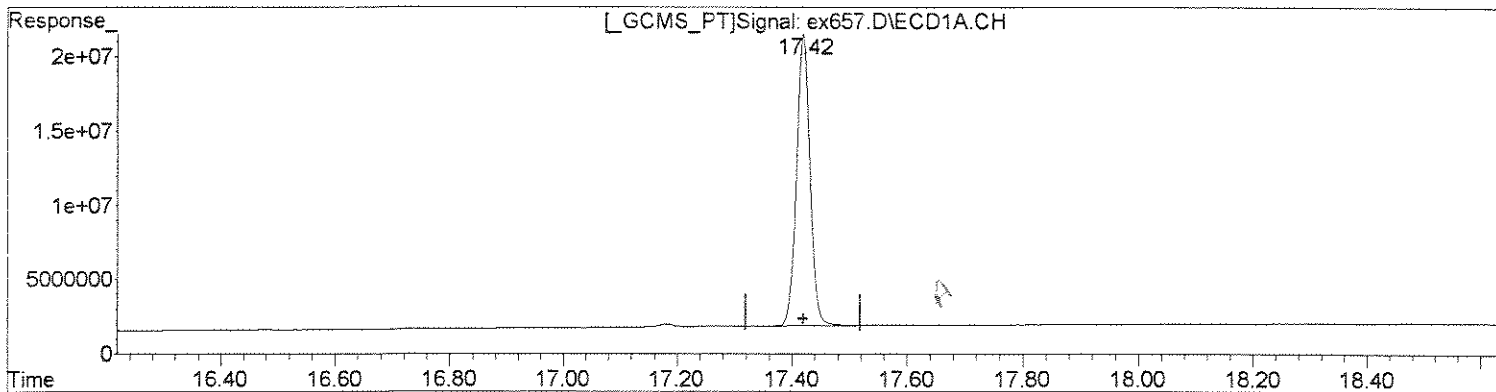
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUADATA\6890D\DATA\060208\
Data File : ex657.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 10:12 am
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: Jun 03 08:05:36 2008
Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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) SURRE2,Decachlorobiphenyl (S)
17.42min 18.735ug/l m
response 325140171

(25) SURRE2,Decachlorobiphenyl #2 (S)
17.50min 18.512ug/l m
response 838410306

Handwritten notes:
17.42
17.50

(+) = Expected Retention Time

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX658.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:48 am
 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: Jun 03 08:27:22 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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/1	ug/1

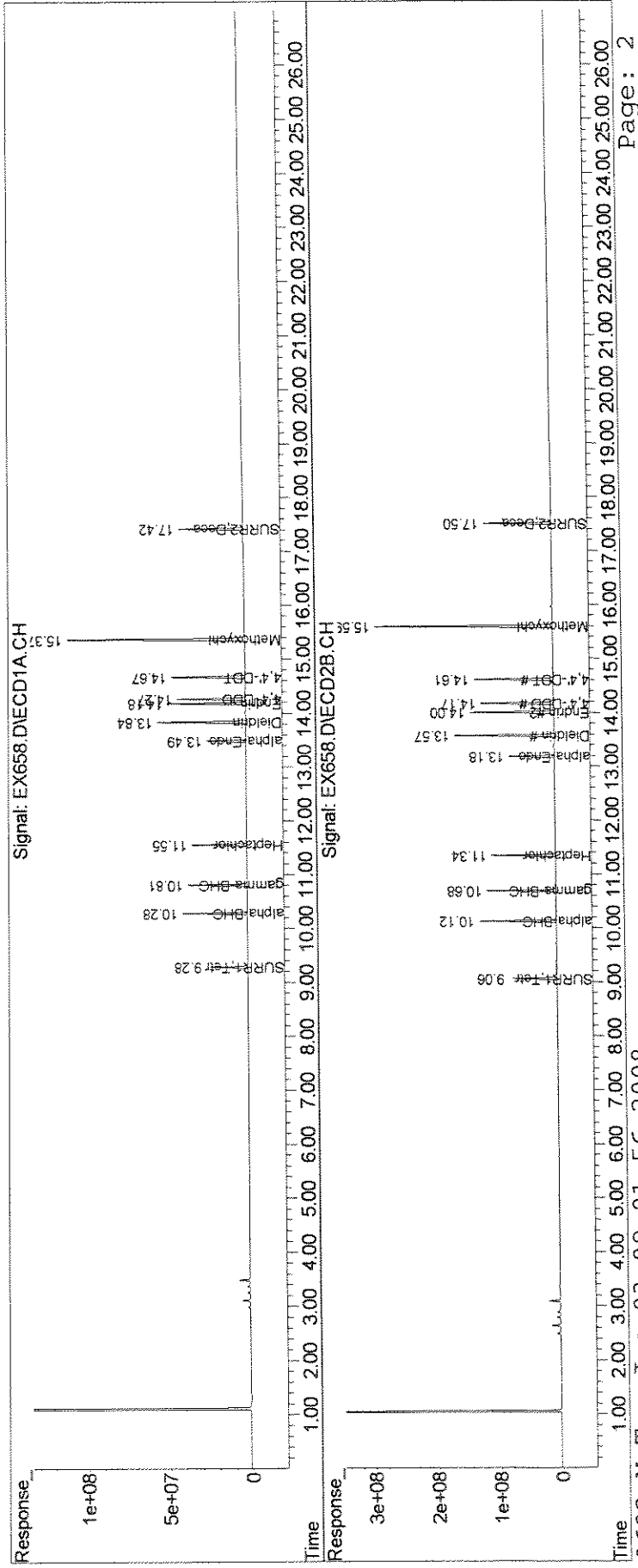
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	370.7E6	1212.5E6	19.656	20.616
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.66%#	20.62%#
25) S SURR2,Decachloro	17.42	17.50	672.5E6	1732.2E6	38.751	38.245
Spiked Amount	100.000	Range 30 - 150	Recovery =		38.75%	38.24%
Target Compounds						
3) tc alpha-BHC	10.28	10.12	600.0E6	1856.1E6	20.692	19.980
4) tcm gamma-BHC (L	10.81	10.68	548.9E6	1640.1E6	20.622	19.908
5) tcm Heptachlor	11.55	11.34	536.2E6	1606.3E6	20.218	19.932
10) tc alpha-Endosu	13.49	13.18	407.9E6	1198.5E6	20.056	19.983
14) tcm Dieldrin	13.84	13.57	937.6E6	2642.6E6	41.122	40.450
15) tcm Endrin	14.18	14.00	838.1E6	2291.6E6	42.828	40.737
18) tc 4,4'-DDD	14.27	14.17	750.2E6	2087.8E6	42.269	40.606
19) tcm 4,4'-DDT	14.67	14.61	807.0E6	2209.0E6	42.078	40.267
22) tc Methoxychlor	15.37	15.59	1981.2E6	4846.0E6	210.767	203.411
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.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX658.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:48 am
 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: Jun 03 08:27:22 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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



Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX659.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 11:23 am
 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: Jun 03 08:28:16 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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/1	ug/1
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 System Monitoring Compounds

1) S SURR1,Tetrac	9.28	9.06	851.8E6	2672.6E6	45.169	45.439
Spiked Amount	100.000	Range	30 - 150	Recovery =	45.17%	45.44%
25) S SURR2,Decachloro	17.42	17.50	1507.9E6	3868.8E6	86.882	85.420
Spiked Amount	100.000	Range	30 - 150	Recovery =	86.88%	85.42%

Target Compounds

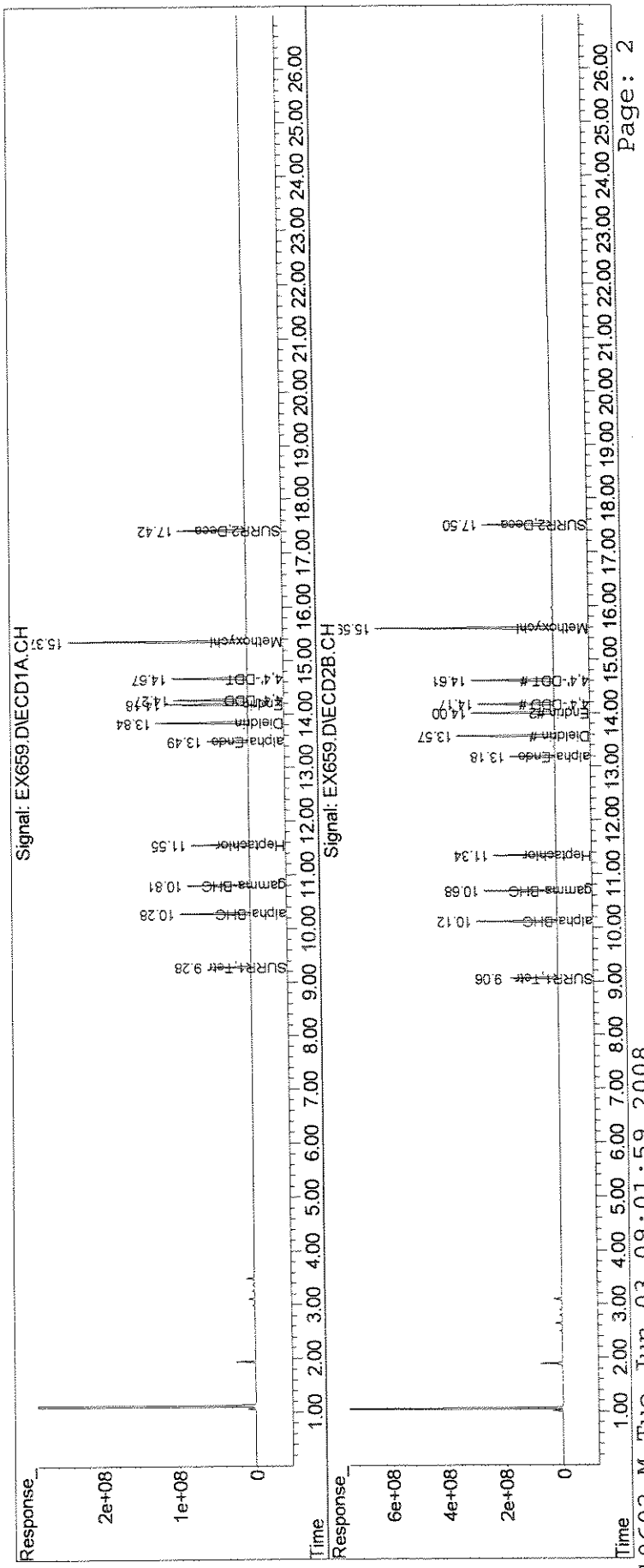
3) tc alpha-BHC	10.28	10.12	1400.6E6	4155.9E6	48.298	44.737
4) tcm gamma-BHC (L)	10.81	10.68	1264.8E6	3706.3E6	47.516	44.988
5) tcm Heptachlor	11.56	11.34	1220.0E6	3487.7E6	46.004	43.279
10) tc alpha-Endosu	13.49	13.19	931.1E6	2610.3E6	45.776	43.523
14) tcm Dieldrin	13.84	13.57	2117.0E6	5693.6E6	92.846	87.153
15) tcm Endrin	14.19	14.00	1901.3E6	4968.9E6	97.160	88.331
18) tc 4,4'-DDD	14.27	14.17	1735.9E6	4656.5E6	97.812	90.563
19) tcm 4,4'-DDT	14.67	14.61	1814.2E6	4945.7E6	94.595	90.155
22) tc Methoxychlor	15.37	15.59	4314.0E6	10311.9E6	458.933	432.844
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.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX659.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 11:23 am
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: Jun 03 08:28:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



80727

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX660.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 11:59 am
 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: Jun 03 08:29:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	1540.4E6	4698.4E6	81.680	79.882
Spiked Amount	100.000	Range 30 - 150	Recovery =		81.68%	79.88%
25) S SURR2,Decachloro	17.42	17.50	2719.0E6	6818.1E6	156.667	150.539
Spiked Amount	100.000	Range 30 - 150	Recovery =		156.67%#	150.54%#
Target Compounds						
3) tc alpha-BHC	10.28	10.12	2532.2E6	7328.1E6	87.318	78.884
4) tcm gamma-BHC (L)	10.81	10.68	2281.7E6	6564.9E6	85.719	79.687
5) tcm Heptachlor	11.55	11.34	2183.8E6	5988.2E6	82.347	74.307
10) tc alpha-Endosu	13.49	13.19	1672.8E6	4531.0E6	82.242	75.549
14) tcm Dieldrin	13.84	13.57	3725.4E6	9697.2E6	163.385	148.437
15) tcm Endrin	14.18	14.00	3356.7E6	8503.3E6	171.530	151.162
18) tc 4,4'-DDD	14.27	14.17	3096.3E6	8154.5E6	174.466	158.596
19) tcm 4,4'-DDT	14.67	14.61	3314.3E6	8679.8E6	172.811	158.223
22) tc Methoxychlor	15.37	15.59	7439.4E6	17756.3E6	791.420	745.322
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

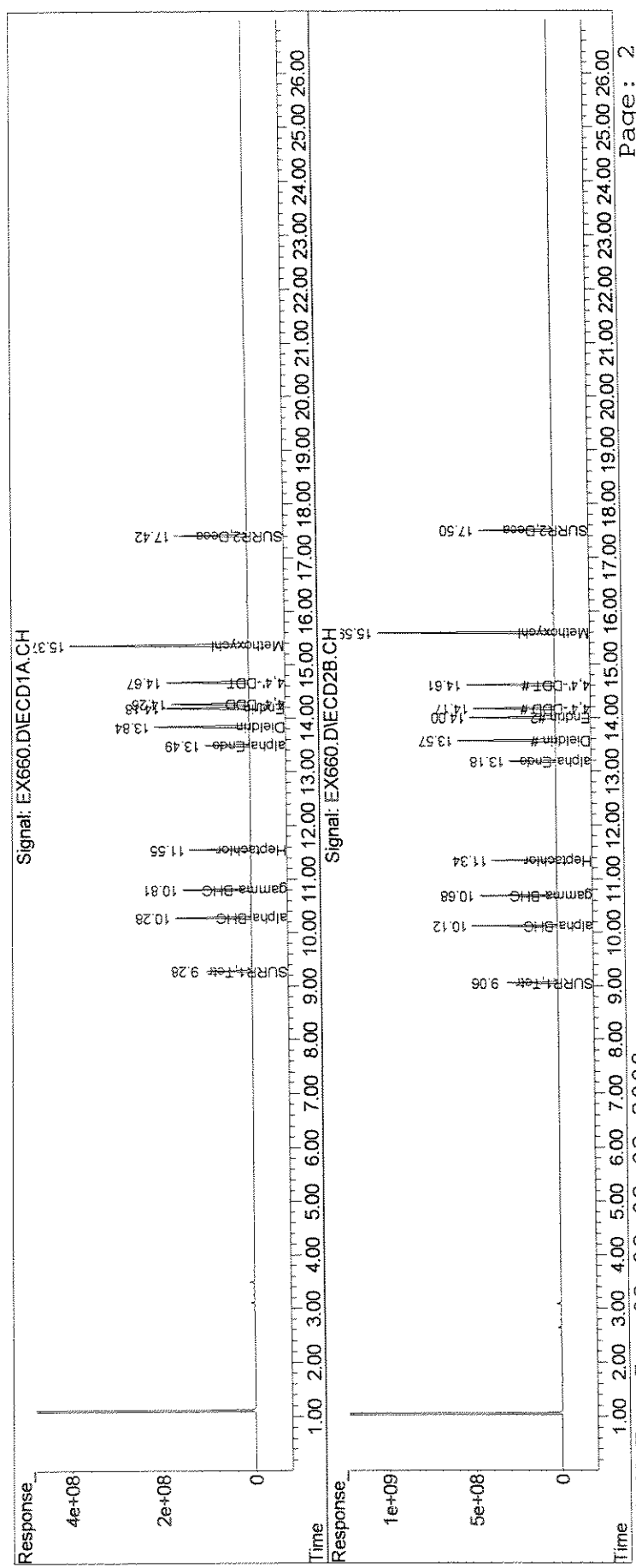
Handwritten initials

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX660.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 11:59 am
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: Jun 03 08:29:51 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00729

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX661.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 12:34 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: Jun 03 08:30:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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
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System Monitoring Compounds

1) S	SURR1,Tetrac	9.28	9.06	94151359	330.6E6	4.992	5.621
	Spiked Amount	100.000	Range 30 - 150	Recovery =		4.99%#	5.62%#
25) S	SURR2,Decachloro	17.42	17.50	182.7E6	491.3E6	10.524	10.848
	Spiked Amount	100.000	Range 30 - 150	Recovery =		10.52%#	10.85%#

Target Compounds

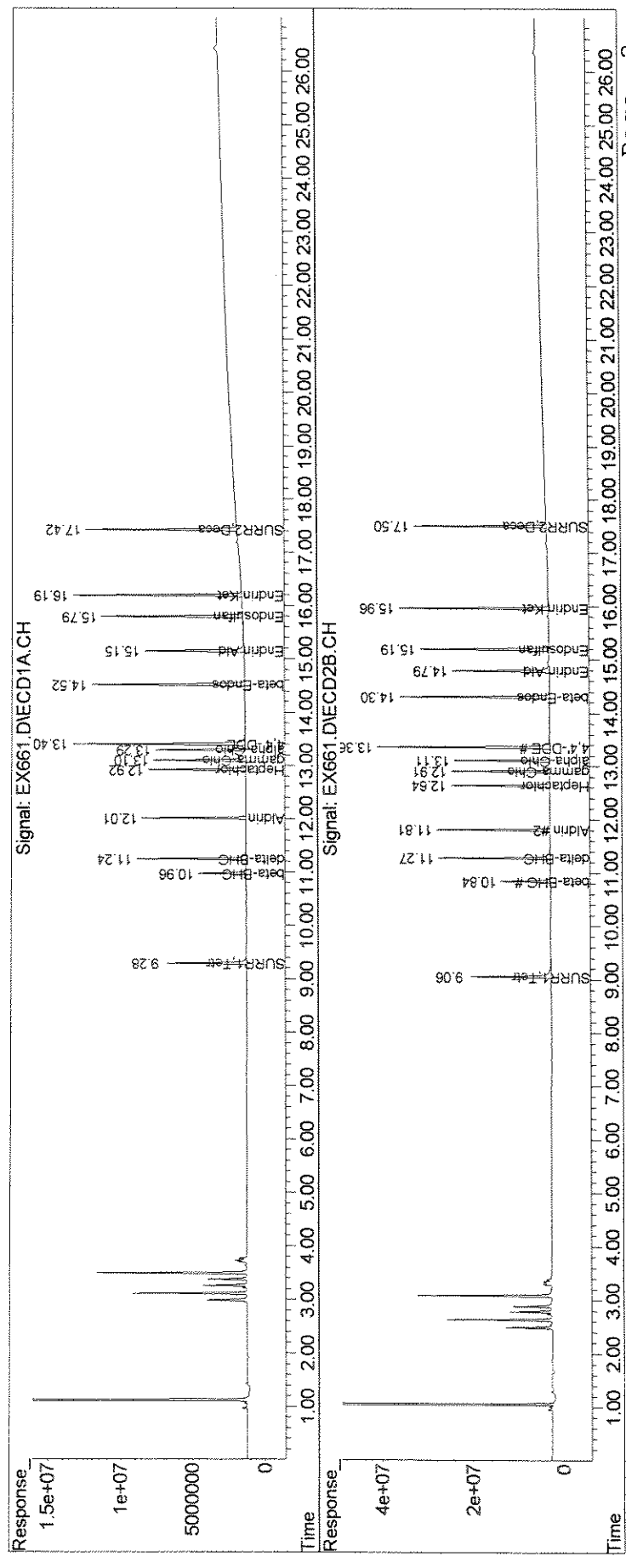
6) tcm	Aldrin	12.01	11.81	115.5E6	377.3E6	4.758	5.083
7) tc	beta-BHC	10.97	10.84	58745428	184.8E6	5.277	5.245
8) tc	delta-BHC	11.24	11.27	127.0E6	401.0E6	5.012	5.113
9) tc	Heptachlor E	12.92	12.64	113.5E6	348.8E6	5.028	5.227
11) tc	gamma-Chlord	13.10	12.91	109.4E6	352.3E6	4.918	5.181
12) tc	alpha-Chlord	13.29	13.11	108.5E6	337.5E6	4.990	5.101
13) tc	4,4'-DDE	13.40	13.36	213.1E6	666.2E6	10.285	10.766
17) tc	beta-Endosul	14.52	14.30	192.8E6	575.4E6	10.082	10.635
20) tc	Endrin Aldeh	15.15	14.79	141.3E6	405.4E6	9.874	10.233
21) tc	Endosulfan S	15.79	15.19	176.7E6	507.3E6	10.527	10.774
24) tc	Endrin Keton	16.19	15.96	205.0E6	559.0E6	10.246	10.426
	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.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX661.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 12:34 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: Jun 03 08:30:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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



00731

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX662.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 1:10 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: Jun 03 08:31:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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

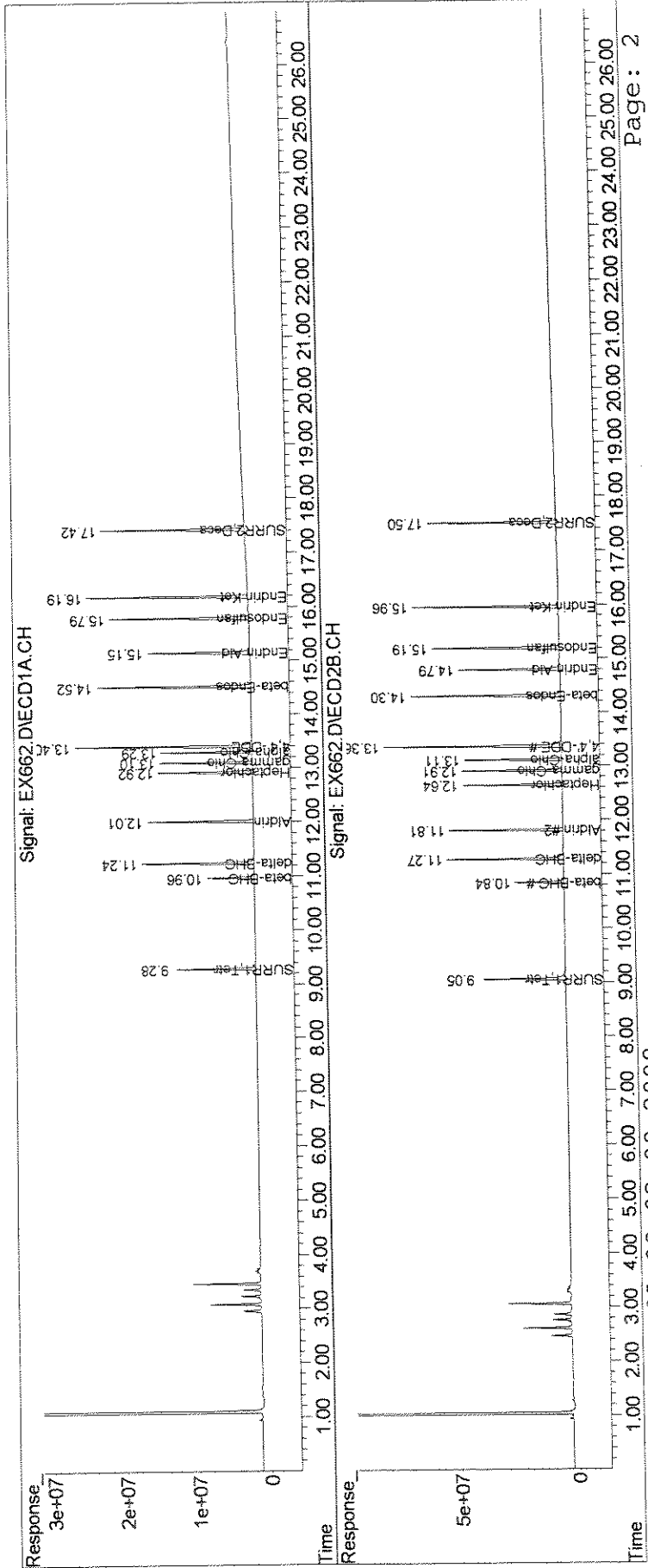
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	185.2E6	624.0E6	9.819	10.609
Spiked Amount	100.000	Range 30 - 150	Recovery =		9.82%#	10.61%#
25) S SURR2,Decachloro	17.42	17.50	343.8E6	906.6E6	19.809	20.017
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.81%#	20.02%#
Target Compounds						
6) tcm Aldrin	12.01	11.81	233.8E6	742.7E6	9.631	10.005
7) tc beta-BHC	10.96	10.84	111.6E6	346.2E6	10.021	9.827
8) tc delta-BHC	11.24	11.27	256.9E6	792.6E6	10.140	10.105
9) tc Heptachlor E	12.92	12.64	221.2E6	672.8E6	9.802	10.082
11) tc gamma-Chlord	13.10	12.91	214.5E6	679.2E6	9.647	9.989
12) tc alpha-Chlord	13.29	13.11	211.5E6	646.0E6	9.731	9.766
13) tc 4,4'-DDE	13.40	13.36	424.4E6	1277.5E6	20.479	20.645
17) tc beta-Endosul	14.52	14.30	374.3E6	1089.8E6	19.576	20.142
20) tc Endrin Aldeh	15.15	14.79	278.5E6	791.4E6	19.467	19.979
21) tc Endosulfan S	15.79	15.19	344.0E6	974.4E6	20.495	20.695
24) tc Endrin Keton	16.19	15.96	396.3E6	1062.9E6	19.807	19.823
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.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX662.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 1:10 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: Jun 03 08:31:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00799

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX663.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 1:46 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: Jun 03 08:32:43 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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/1	ug/1
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 System Monitoring Compounds

1) S SURR1,Tetrac	9.28	9.06	382.5E6	1266.3E6	20.281	21.529
Spiked Amount	100.000	Range	30 - 150	Recovery	= 20.28%#	21.53%#
25) S SURR2,Decachloro	17.42	17.50	703.5E6	1831.9E6	40.537	40.448
Spiked Amount	100.000	Range	30 - 150	Recovery	= 40.54%	40.45%

Target Compounds

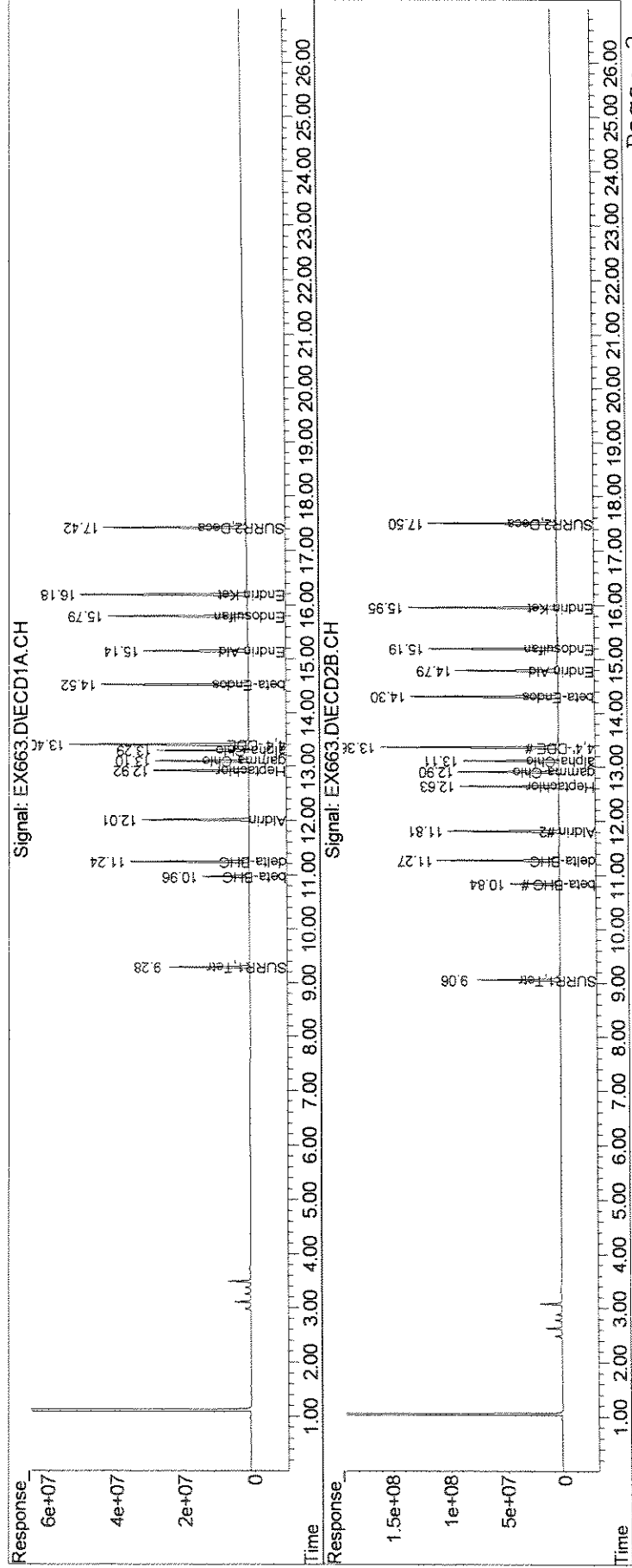
6) tcm Aldrin	12.01	11.81	494.2E6	1514.7E6	20.362	20.404
7) tc beta-BHC	10.96	10.84	231.0E6	707.7E6	20.751	20.088
8) tc delta-BHC	11.24	11.27	562.5E6	1685.8E6	22.201	21.493
9) tc Heptachlor E	12.92	12.64	460.4E6	1358.1E6	20.406	20.351
11) tc gamma-Chlord	13.10	12.90	455.0E6	1403.1E6	20.465	20.634
12) tc alpha-Chlord	13.29	13.11	445.4E6	1333.1E6	20.490	20.153
13) tc 4,4'-DDE	13.40	13.36	909.7E6	2637.4E6	43.900	42.622
17) tc beta-Endosul	14.51	14.30	795.4E6	2220.3E6	41.598	41.036
20) tc Endrin Aldeh	15.15	14.79	592.6E6	1627.3E6	41.423	41.080
21) tc Endosulfan S	15.79	15.19	729.6E6	2004.4E6	43.465	42.572
24) tc Endrin Keton	16.18	15.95	839.4E6	2186.8E6	41.954	40.784
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.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX663.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 1:46 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: Jun 03 08:32:43 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00735

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX664.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 2:22 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: Jun 03 08:36:57 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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

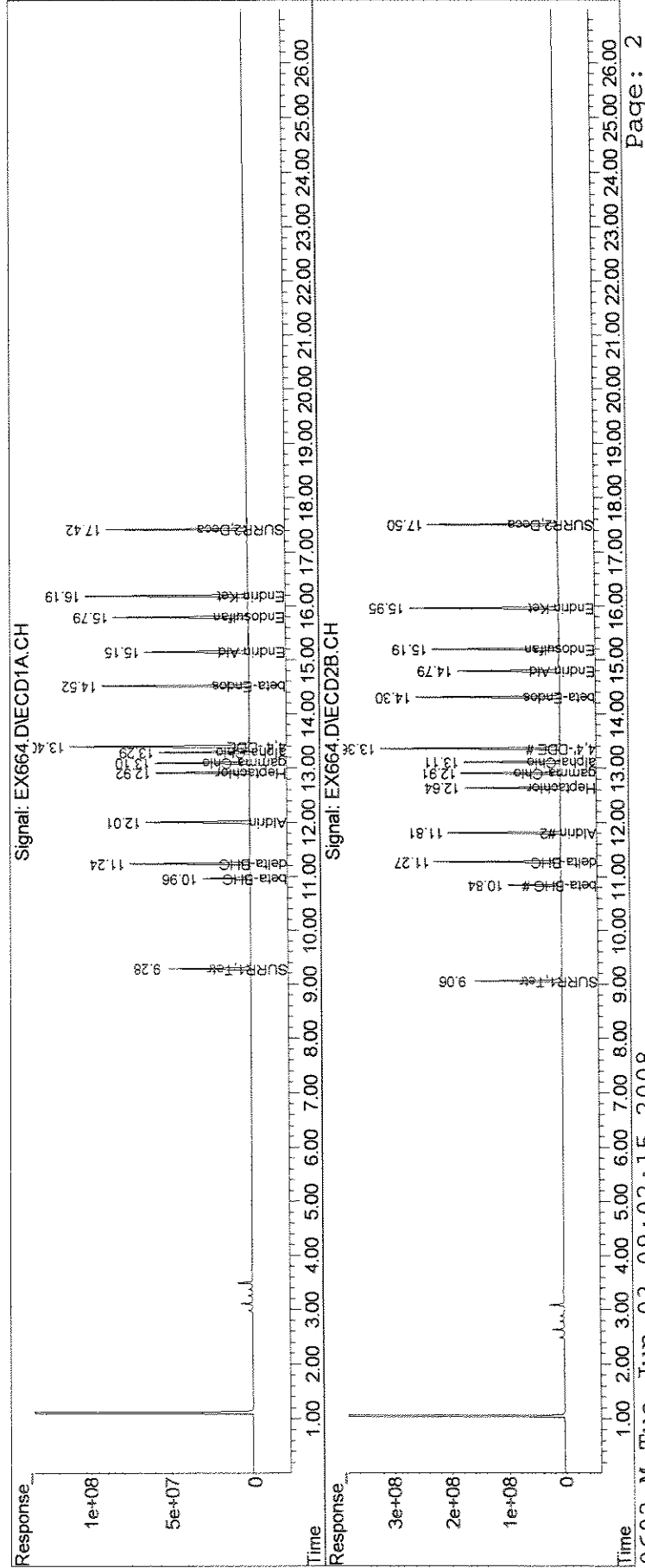
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	791.6E6	2530.2E6	41.978	43.019
Spiked Amount	100.000	Range 30 - 150	Recovery =		41.98%	43.02%
25) S SURR2,Decachloro	17.42	17.50	1473.3E6	3710.3E6	84.893	81.920
Spiked Amount	100.000	Range 30 - 150	Recovery =		84.89%	81.92%
Target Compounds						
6) tcm Aldrin	12.01	11.81	1042.0E6	3057.7E6	42.930	41.191
7) tc beta-BHC	10.96	10.84	467.9E6	1446.1E6	42.029	41.049
8) tc delta-BHC	11.24	11.27	1182.6E6	3481.0E6	46.678	44.381
9) tc Heptachlor E	12.92	12.64	957.0E6	2696.4E6	42.414	40.407
11) tc gamma-Chlord	13.10	12.91	959.9E6	2851.5E6	43.172	41.936
12) tc alpha-Chlord	13.29	13.11	934.6E6	2715.1E6	42.995	41.045
13) tc 4,4'-DDE	13.40	13.36	1912.6E6	5340.8E6	92.293	86.308
17) tc beta-Endosul	14.52	14.30	1633.7E6	4407.7E6	85.445	81.466
20) tc Endrin Aldeh	15.15	14.79	1250.9E6	3287.3E6	87.439	82.985
21) tc Endosulfan S	15.79	15.19	1518.9E6	4043.9E6	90.482	85.888
24) tc Endrin Keton	16.19	15.96	1744.2E6	4386.3E6	87.173	81.805
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.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX664.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 2:22 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: Jun 03 08:36:57 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX665.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 2:57 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: Jun 03 08:37:44 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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
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 System Monitoring Compounds

1) S	SURR1,Tetrac	9.28	9.06	1590.1E6	4863.3E6	84.315	82.687
	Spiked Amount	100.000	Range 30 - 150	Recovery =		84.31%	82.69%
25) S	SURR2,Decachloro	17.42	17.50	2823.3E6	7187.1E6	162.676	158.688
	Spiked Amount	100.000	Range 30 - 150	Recovery =		162.68%#	158.69%#

Target Compounds

6) tcm	Aldrin	12.01	11.81	2066.3E6	5825.7E6	85.131	78.478
7) tc	beta-BHC	10.96	10.84	925.9E6	2820.4E6	83.165	80.059
8) tc	delta-BHC	11.24	11.27	2360.9E6	6775.3E6	93.190	86.382
9) tc	Heptachlor E	12.92	12.64	1876.4E6	5088.6E6	83.160	76.255
11) tc	gamma-Chlord	13.10	12.91	1911.2E6	5503.7E6	85.959	80.940
12) tc	alpha-Chlord	13.29	13.11	1859.7E6	5236.0E6	85.549	79.155
13) tc	4,4'-DDE	13.40	13.36	3716.2E6	10031.8E6	179.333	162.116
17) tc	beta-Endosul	14.52	14.30	3198.5E6	8255.4E6	167.285	152.581
20) tc	Endrin Aldeh	15.15	14.79	2462.3E6	6285.7E6	172.114	158.677
21) tc	Endosulfan S	15.79	15.19	2974.1E6	7690.4E6	177.165	163.336
24) tc	Endrin Keton	16.19	15.95	3409.2E6	8342.0E6	170.390	155.581
	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.

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX666.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 3:33 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: Jun 03 08:38:35 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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
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System Monitoring Compounds

Target Compounds

2) TC	HEXACHLOROBENZEN	9.98	9.87	145.8E6	497.8E6	5.271	5.454
16) tc	KEPONE	14.25	14.16	2426.4E6	6743.3E6	389.584	381.221
23) tc	FAMPHUR	16.08	15.31	1310.8E6	3260.0E6	114.383	117.394
	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

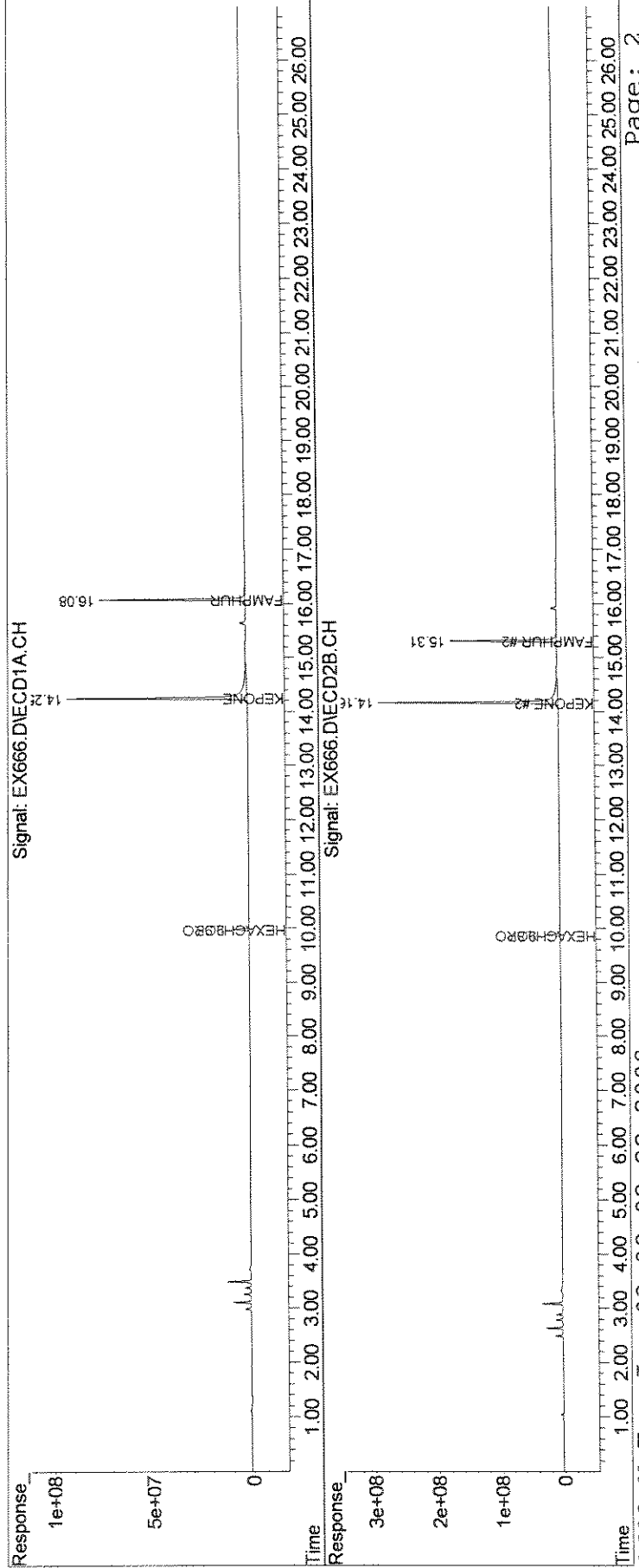
WJ
4/3

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX666.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 3:33 pm
Operator : M.PEDRO
Sample : kep/fam l
Misc : initial cal
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:38:35 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00741

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX667.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 4:08 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: Jun 03 08:39:14 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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
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System Monitoring Compounds

Target Compounds

2) TC	HEXACHLOROBENZEN	9.98	9.87	550.9E6	1816.9E6	19.914	19.903
16) tc	KEPONE	14.24	14.16	5786.6E6	16556.3E6	929.115	935.983
23) tc	FAMPHUR	16.08	15.30	2536.2E6	6293.9E6	221.313	226.644
	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

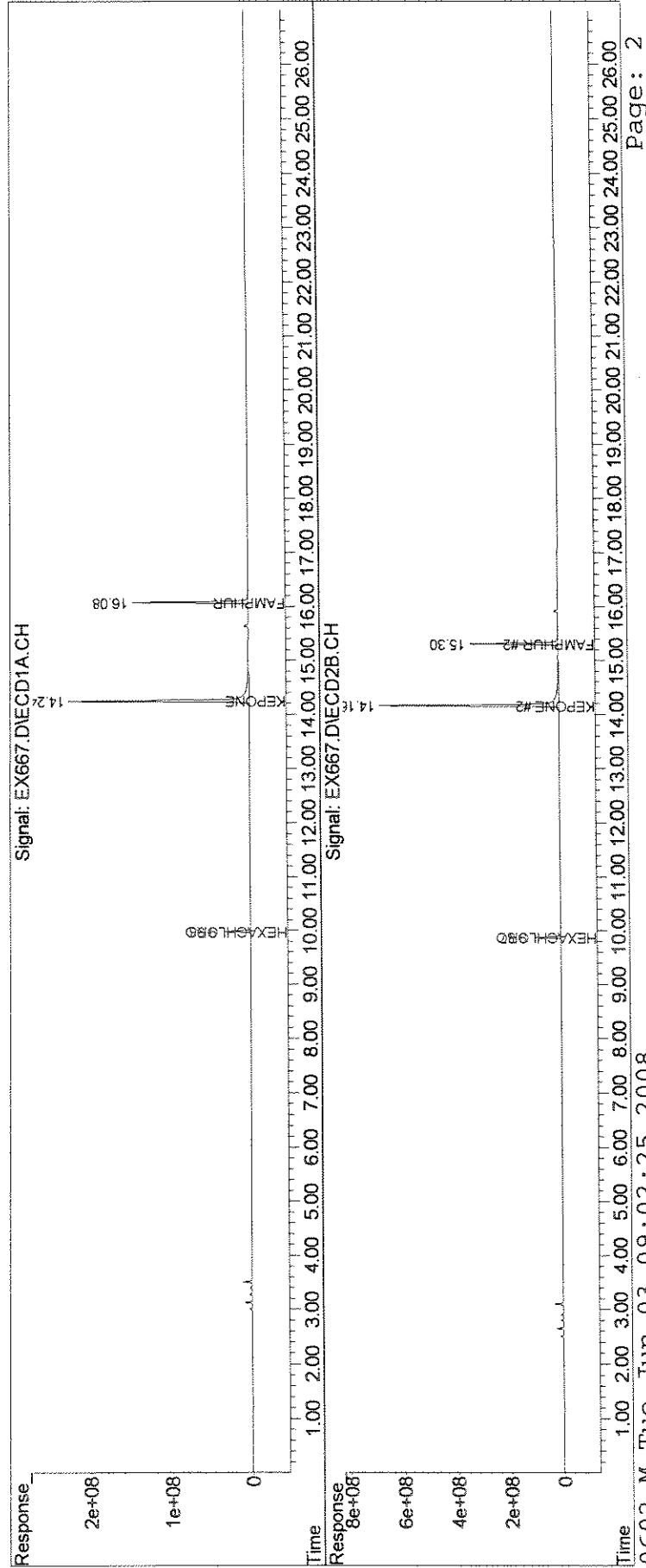
MW/13

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX667.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 4:08 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: Jun 03 08:39:14 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00743

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX668.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 4:44 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: Jun 03 08:39:57 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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
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System Monitoring Compounds

Target Compounds

2) TC	HEXACHLOROBENZEN	9.98	9.87	1333.6E6	4280.0E6	48.208	46.885
16) tc	KEPONE	14.24	14.16	10242.9E6	27567.0E6	1644.636	1558.458
23) tc	FAMPHUR	16.08	15.30	3971.3E6	9795.0E6	346.547	352.720
	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

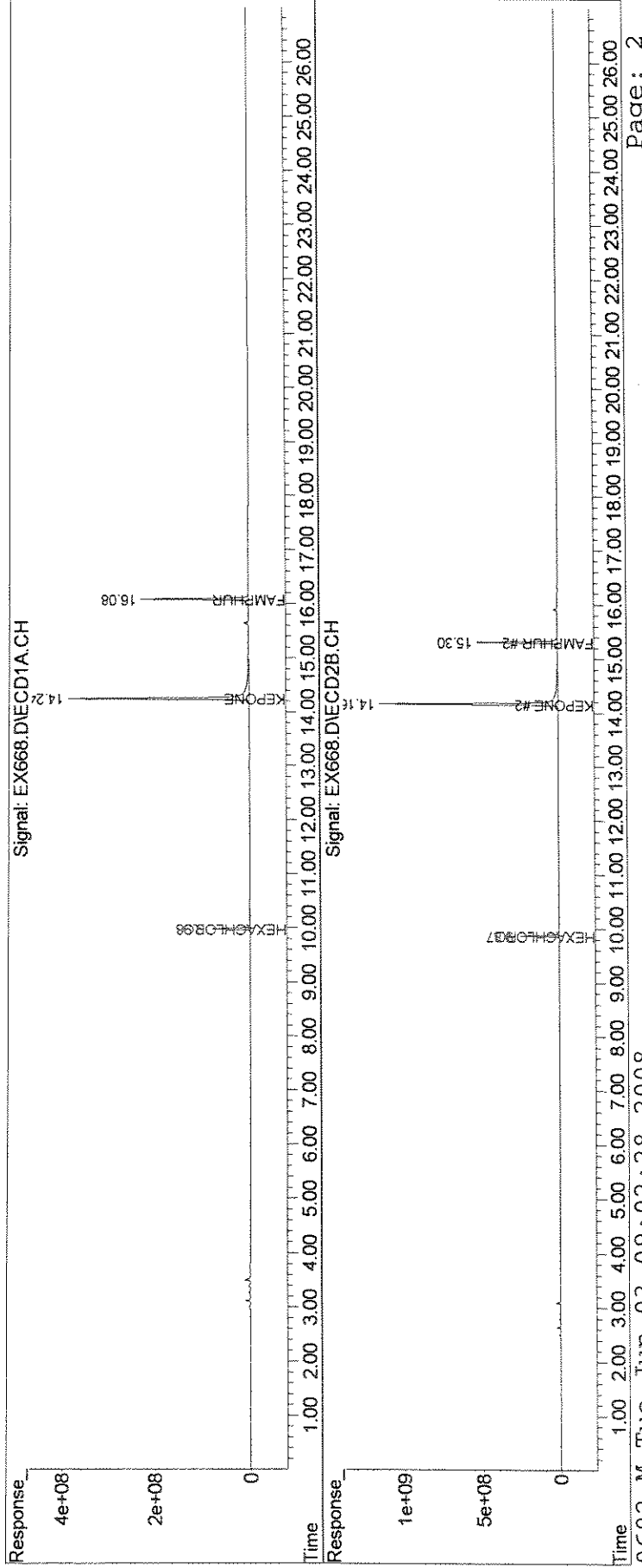
*ms
0/3*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX668.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 4:44 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: Jun 03 08:39:57 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00745

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX669.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 5:20 pm
 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: Jun 03 08:43:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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/1	ug/1
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System Monitoring Compounds

Target Compounds

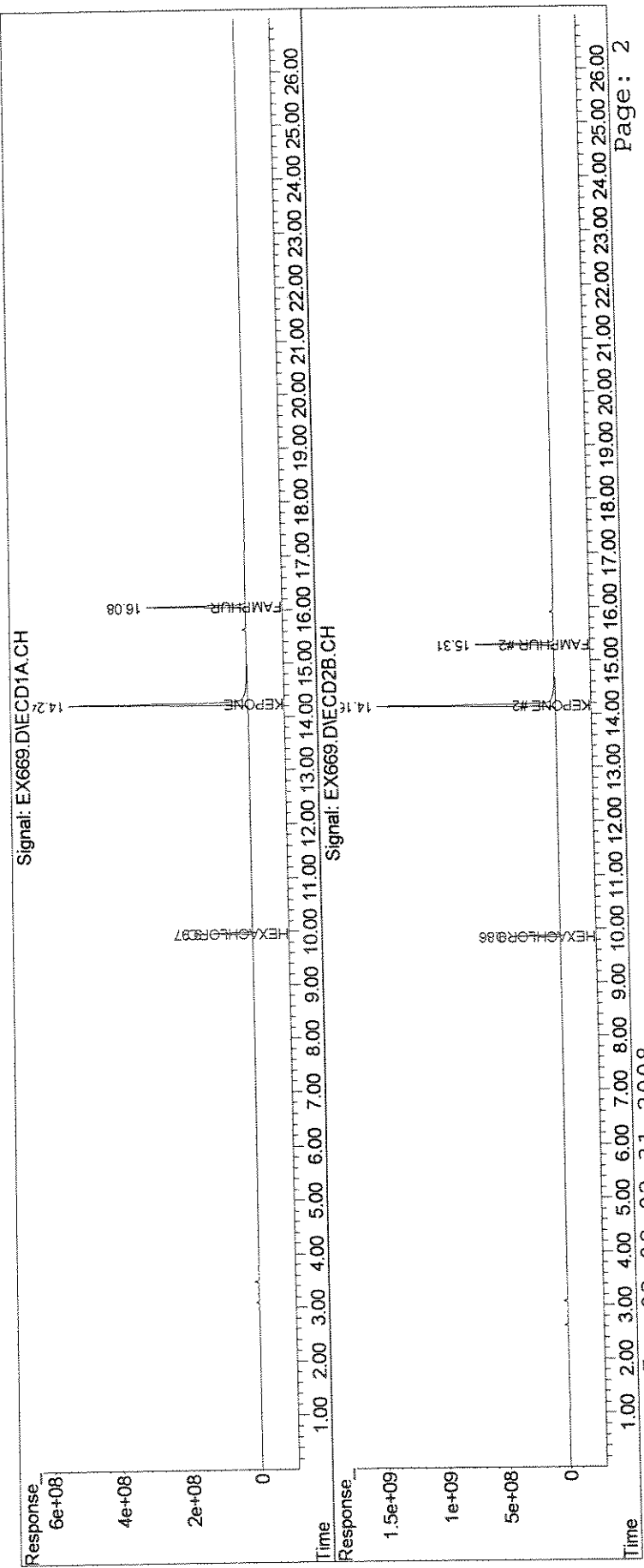
2) TC	HEXACHLOROBENZEN	9.97	9.86	2073.5E6	6532.4E6	74.958	71.559
16) tc	KEPONE	14.25	14.16	13784.8E6	35665.5E6	2213.337	2016.292
23) tc	FAMPHUR	16.08	15.31	5142.8E6	12223.4E6	448.768	440.168
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX669.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 5:20 pm
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: Jun 03 08:43:45 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00747

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX670.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 5:55 pm
 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: Jun 03 08:53:37 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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/1	ug/1
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System Monitoring Compounds

Target Compounds

2) TC	HEXACHLOROENZEN	9.97	9.87	2652.5E6	8231.0E6	95.887	90.167
.6) tc	KEPONE	14.24	14.16	17328.6E6	48209.8E6	2782.335	2725.460
23) tc	FAMPHUR	16.08	15.30	6548.3E6	15830.2E6	571.420	570.049
	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

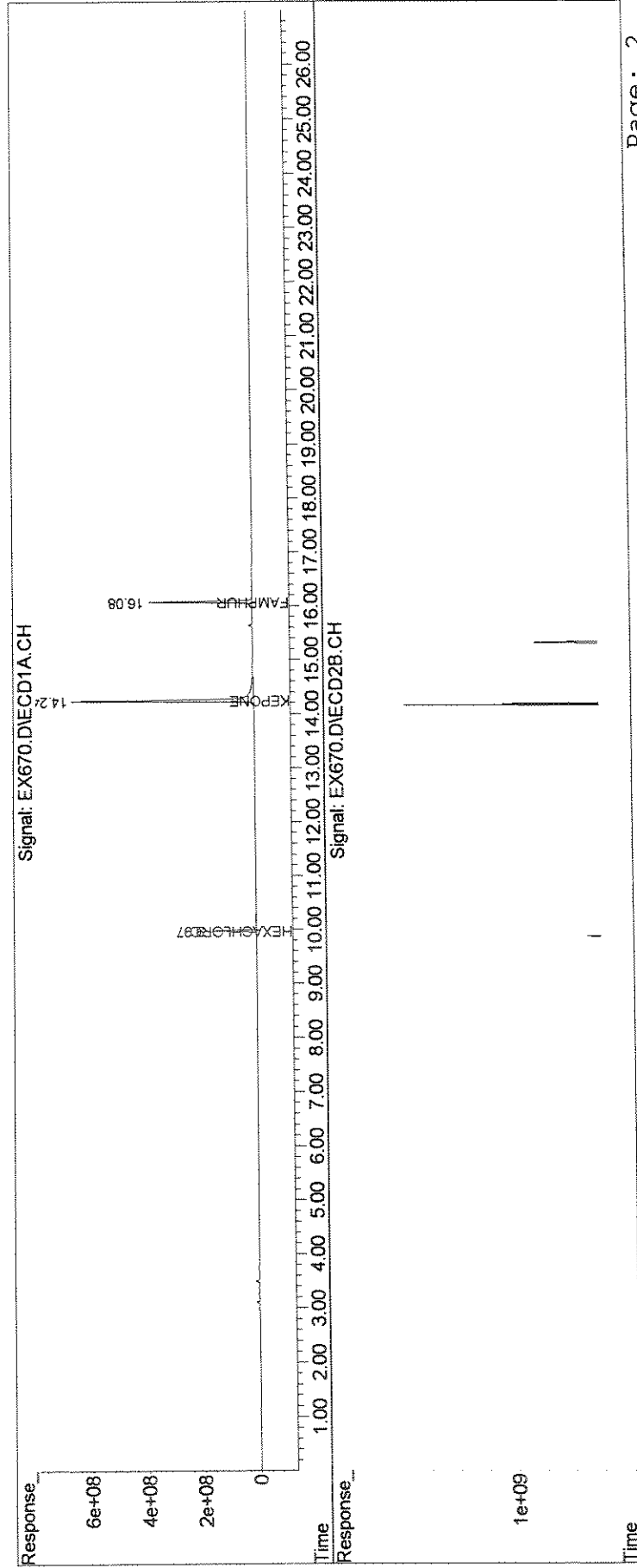
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

*W
4/3*

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX670.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 5:55 pm
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: Jun 03 08:53:37 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00749

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX672.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 7:06 pm
 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: Jun 03 08:45:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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
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System Monitoring Compounds

1) S SURR1,Tetrac	9.28	9.06	380.2E6	1255.4E6	20.163	21.344
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.16%#	21.34%#
25) S SURR2,Decachloro	17.42	17.50	359.8E6	931.8E6	20.729	20.574
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.73%#	20.57%#

Target Compounds

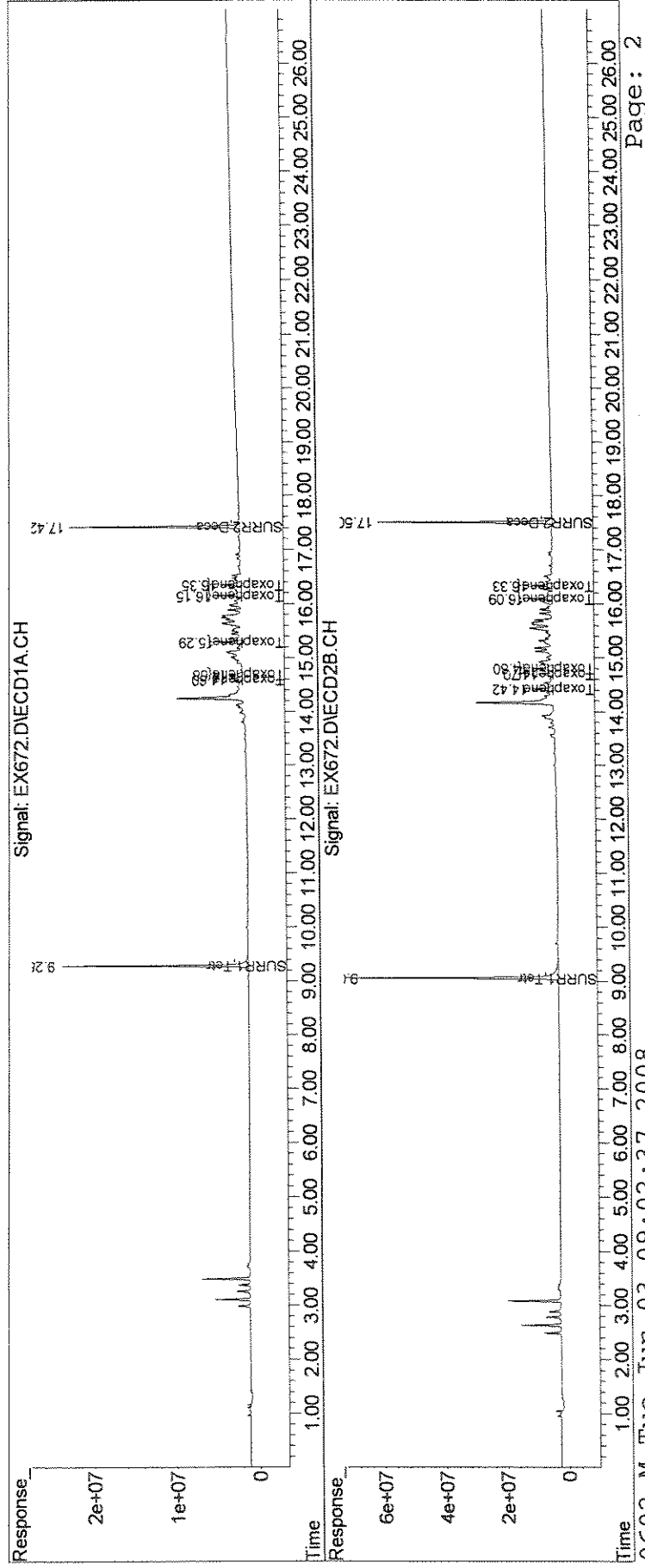
26) L8C Toxaphene	14.60	14.42	31810812	173.4E6	90.319m	235.557 #
27) L8C Toxaphene {2}	14.68	14.70	31461072	79269104	111.782m	50.660 #
28) L8C Toxaphene {3}	15.29	14.80	63655281	163.9E6	111.344	161.859 #
29) L8C Toxaphene {4}	16.15	16.09	76388295	154.1E6	98.409	93.687
30) L8C Toxaphene {5}	16.35	16.33	57432512	150.1E6	102.187	92.355
Sum Toxaphene			260.7E6	720.8E6	514.040	634.118
Average Toxaphene					102.808	126.824
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.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX672.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 7:06 pm
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: Jun 03 08:45:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
Quant Update : Tue Jun 03 08:04:29 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



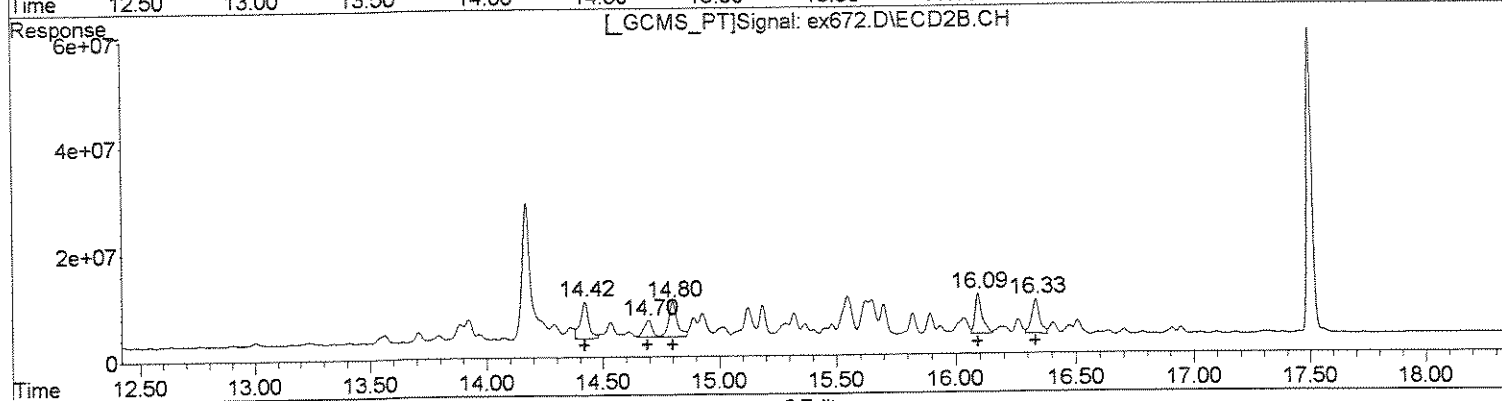
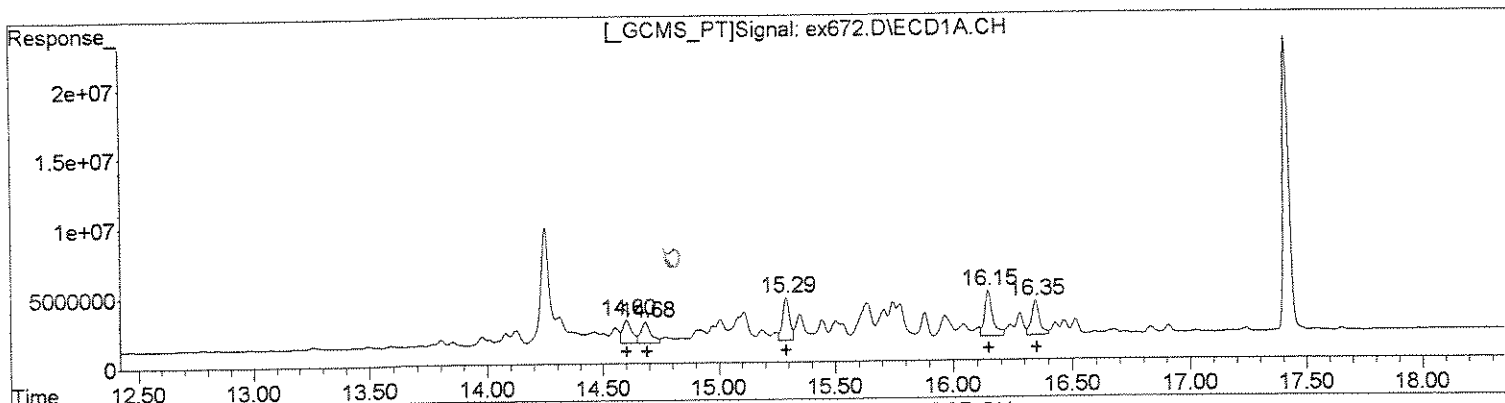
60751

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex672.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 7:06 pm
 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: Jun 03 08:07:07 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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

(26) Toxaphene (L8C)		
R.T.	Response	Conc
14.60	44377492	126.00
14.68	44556162	158.31
15.29	63655281	111.34
16.15	76388295	98.41
16.35	57432512	102.19
(26) Toxaphene #2 (L8C)		
R.T.	Response	Conc
14.42	173408573	235.56
14.70	79269104	50.66
14.80	163866447	161.86
16.09	154149565	93.69
16.33	150135113	92.35

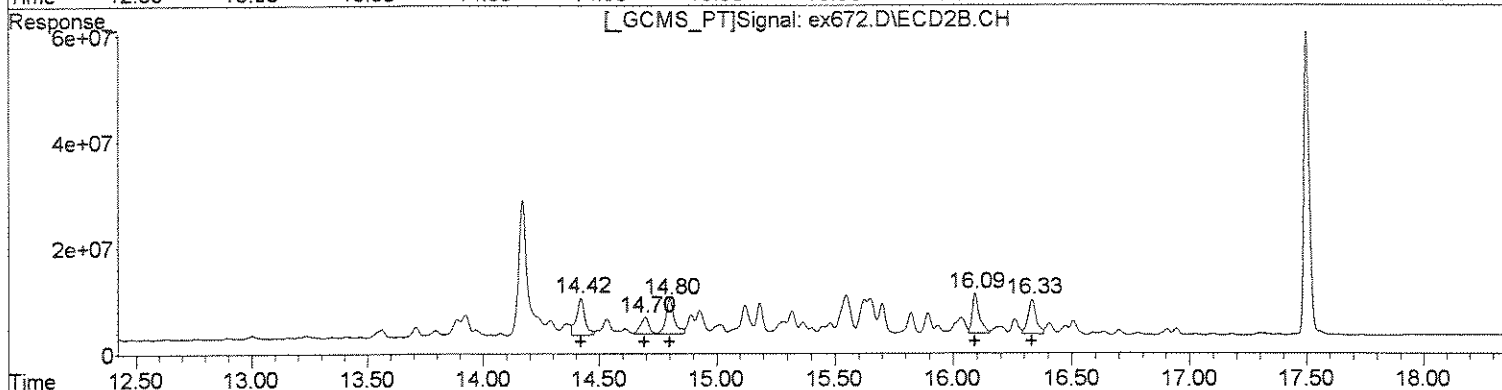
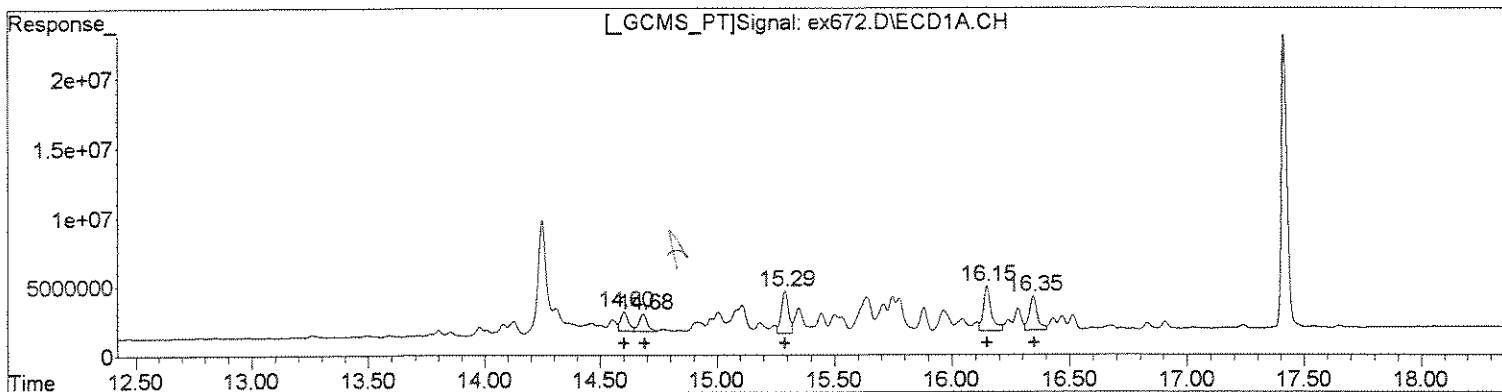
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex672.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 7:06 pm
 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: Jun 03 08:07:07 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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

(26) Toxaphene #2 (L8C)
 R.T. Response Conc
 14.60 31810812 90.32
 14.68 31461072 111.78
 15.29 63655281 111.34
 16.15 76388295 98.41
 16.35 57432512 102.19

(26) Toxaphene #2 (L8C)
 R.T. Response Conc
 14.42 173408573 235.56
 14.70 79269104 50.66
 14.80 163866447 161.86
 16.09 154149565 93.69
 16.33 150135113 92.35

Handwritten notes:
 6/3
 6/3

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX673.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 7:43 pm
 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: Jun 03 08:46:02 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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/1	ug/1

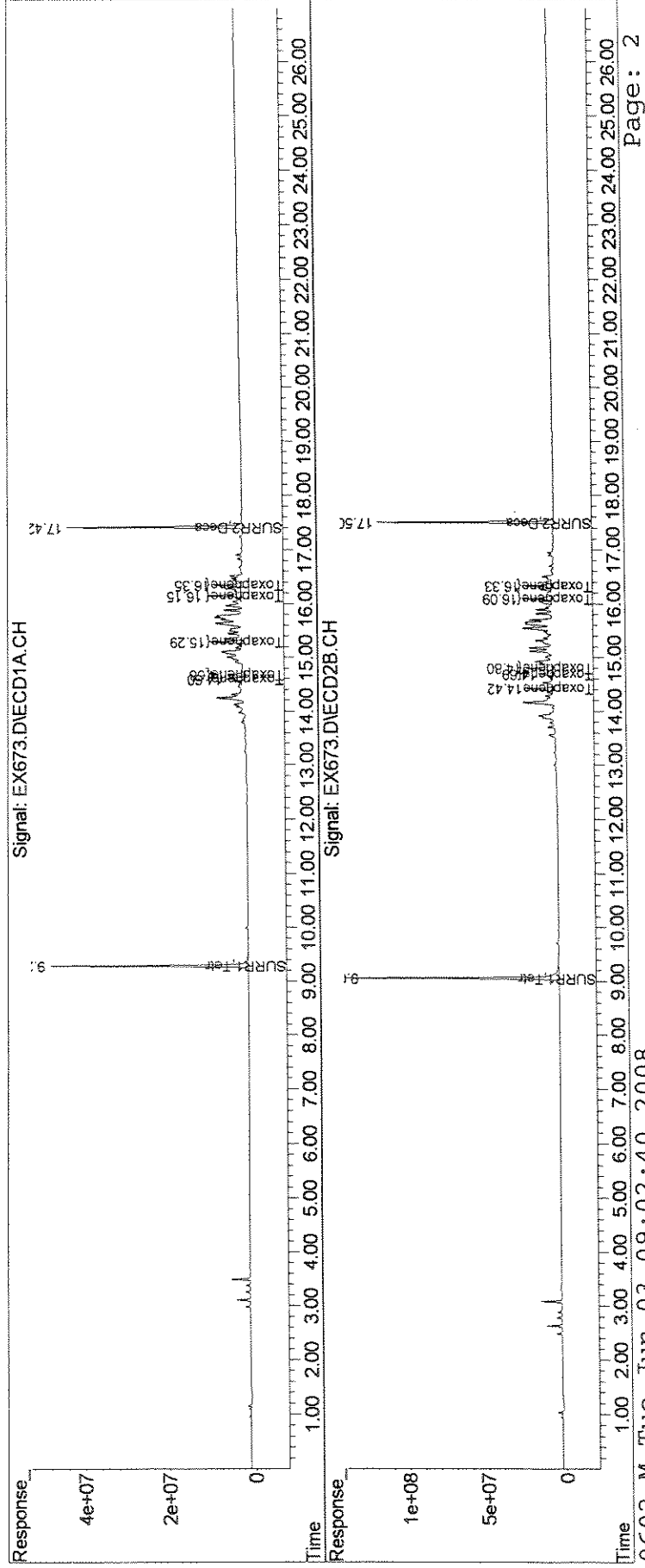
System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.06	777.6E6	2453.6E6	41.231	41.717 ^{WJ}
Spiked Amount	100.000	Range	30 - 150	Recovery =	41.23%	41.72%
5) S SURR2,Decachloro	17.42	17.50	721.2E6	1858.3E6	41.556	41.031
Spiked Amount	100.000	Range	30 - 150	Recovery =	41.56%	41.03%
Target Compounds						
6) L8C Toxaphene	14.60	14.42	106.4E6	396.5E6	302.081	538.619 #
7) L8C Toxaphene {2}	14.68	14.70	103.2E6	184.0E6	366.530	117.594 #
8) L8C Toxaphene {3}	15.29	14.80	173.1E6	402.2E6	302.846	397.284 #
9) L8C Toxaphene {4}	16.15	16.09	209.4E6	400.6E6	269.740	243.445
10) L8C Toxaphene {5}	16.35	16.33	161.5E6	416.7E6	287.426	256.311
Sum Toxaphene			753.6E6	1799.9E6	1528.623	1553.252
Average Toxaphene					305.725	310.650
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.

Data Path : J:\ACQDATA\6890D\DATA\060208\
Data File : EX673.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 7:43 pm
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: Jun 03 08:46:02 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00755

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX674.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 8:19 pm
 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: Jun 03 08:46:39 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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
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System Monitoring Compounds

1) S SURR1,Tetrac	9.29	9.06	1169.1E6	3631.9E6	61.994	61.750
Spiked Amount	100.000	Range 30 - 150	Recovery =		61.99%	61.75%
25) S SURR2,Decachloro	17.42	17.50	1095.6E6	2750.5E6	63.127	60.731
Spiked Amount	100.000	Range 30 - 150	Recovery =		63.13%	60.73%

Target Compounds

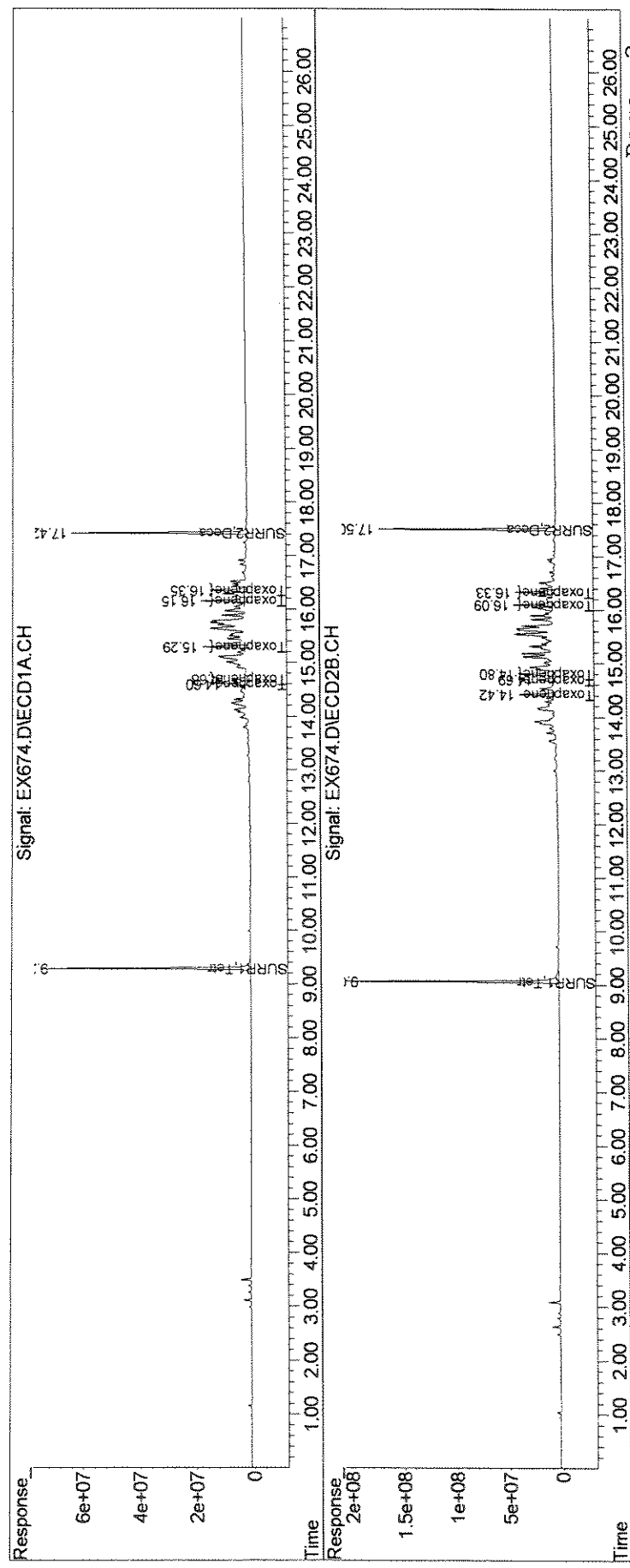
26) L8C Toxaphene	14.60	14.42	206.8E6	763.8E6	587.177	1037.500 #
27) L8C Toxaphene {2}	14.69	14.69	172.2E6	364.6E6	611.885	232.981 #
28) L8C Toxaphene {3}	15.29	14.80	342.2E6	785.5E6	598.579	775.865 #
29) L8C Toxaphene {4}	16.15	16.09	411.6E6	769.7E6	530.264	467.819
30) L8C Toxaphene {5}	16.35	16.33	324.2E6	832.6E6	576.780	512.153
Sum Toxaphene			1457.0E6	3516.1E6	2904.685	3026.320
Average Toxaphene					580.937	605.264
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.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX674.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 8:19 pm
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: Jun 03 08:46:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00757

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX675.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 8:54 pm
 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: Jun 03 08:47:15 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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

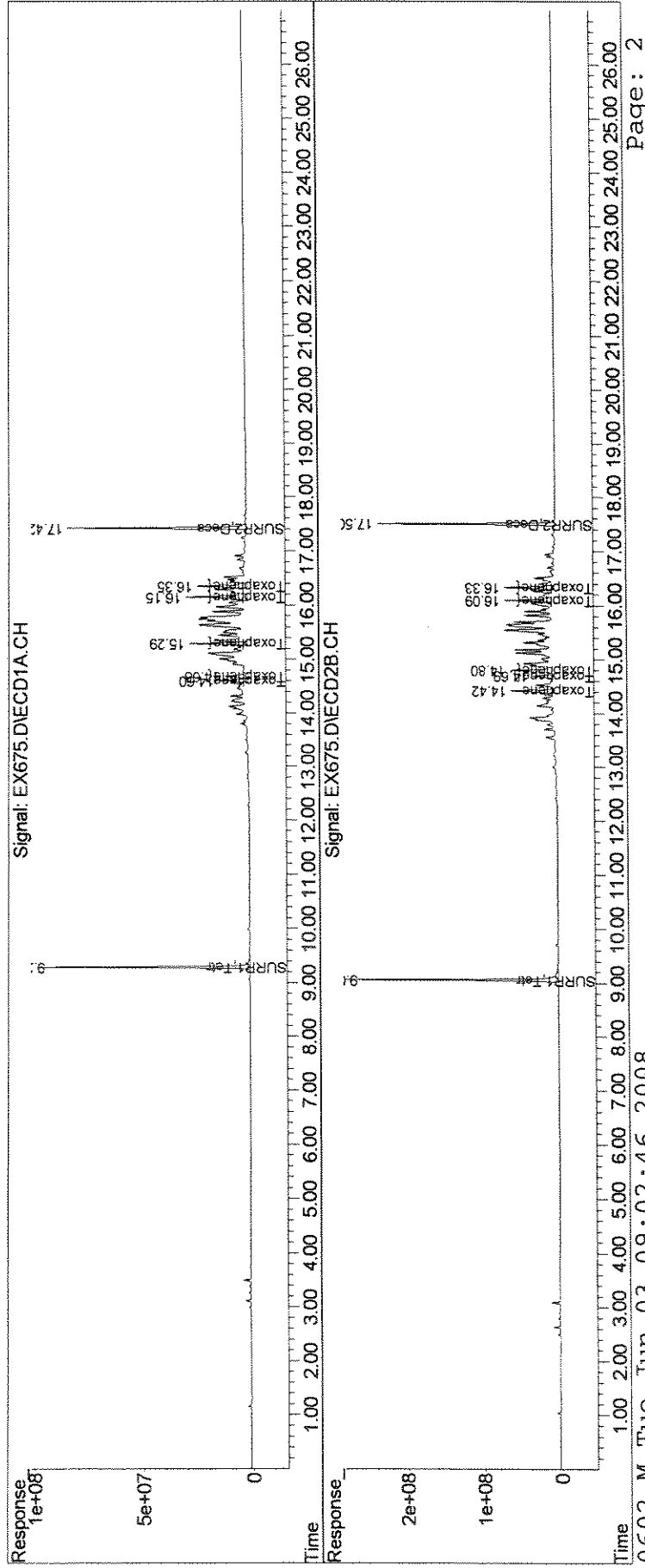
System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.06	1580.3E6	4818.3E6	83.800	81.922
Spiked Amount	100.000	Range 30 - 150	Recovery =		83.80%	81.92%
25) S SURR2,Decachloro	17.42	17.50	1491.5E6	3702.3E6	85.940	81.745
Spiked Amount	100.000	Range 30 - 150	Recovery =		85.94%	81.75%
Target Compounds						
26) L8C Toxaphene	14.60	14.42	345.3E6	1243.3E6	980.526	1688.884 #
27) L8C Toxaphene {2}	14.68	14.69	308.3E6	586.9E6	1095.496	375.059 #
28) L8C Toxaphene {3}	15.29	14.80	579.1E6	1282.5E6	1012.946	1266.738 #
29) L8C Toxaphene {4}	16.15	16.09	802.8E6	1282.6E6	1034.227	779.512
30) L8C Toxaphene {5}	16.35	16.33	557.2E6	1428.6E6	991.428	878.780
Sum Toxaphene			2592.8E6	5823.8E6	5114.624	4988.972
Average Toxaphene					1022.925	997.794
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.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX675.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 8:54 pm
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: Jun 03 08:47:15 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00759

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX676.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 9:30 pm
 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: Jun 03 08:47:39 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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
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 System Monitoring Compounds

1) S SURR1,Tetrac	9.29	9.06	1991.4E6	5981.6E6	105.596	101.700
Spiked Amount	100.000	Range 30 - 150	Recovery =	105.60%	101.70%	
25) S SURR2,Decachloro	17.42	17.50	1879.0E6	4630.7E6	108.267	102.243
Spiked Amount	100.000	Range 30 - 150	Recovery =	108.27%	102.24%	

Target Compounds

26) L8C Toxaphene	14.60	14.42	470.3E6	1686.9E6	1335.211	2291.420 #
27) L8C Toxaphene {2}	14.69	14.69	391.9E6	806.2E6	1392.439	515.219 #
28) L8C Toxaphene {3}	15.29	14.80	790.1E6	1732.0E6	1381.953	1710.781
29) L8C Toxaphene {4}	16.15	16.09	949.3E6	1739.6E6	1222.999	1057.277
30) L8C Toxaphene {5}	16.35	16.33	764.0E6	1970.8E6	1359.375	1212.309
Sum Toxaphene			3365.6E6	7935.4E6	6691.977	6787.006
Average Toxaphene					1338.395	1357.401
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.

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX677.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:05 pm
 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: Jun 03 08:48:21 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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

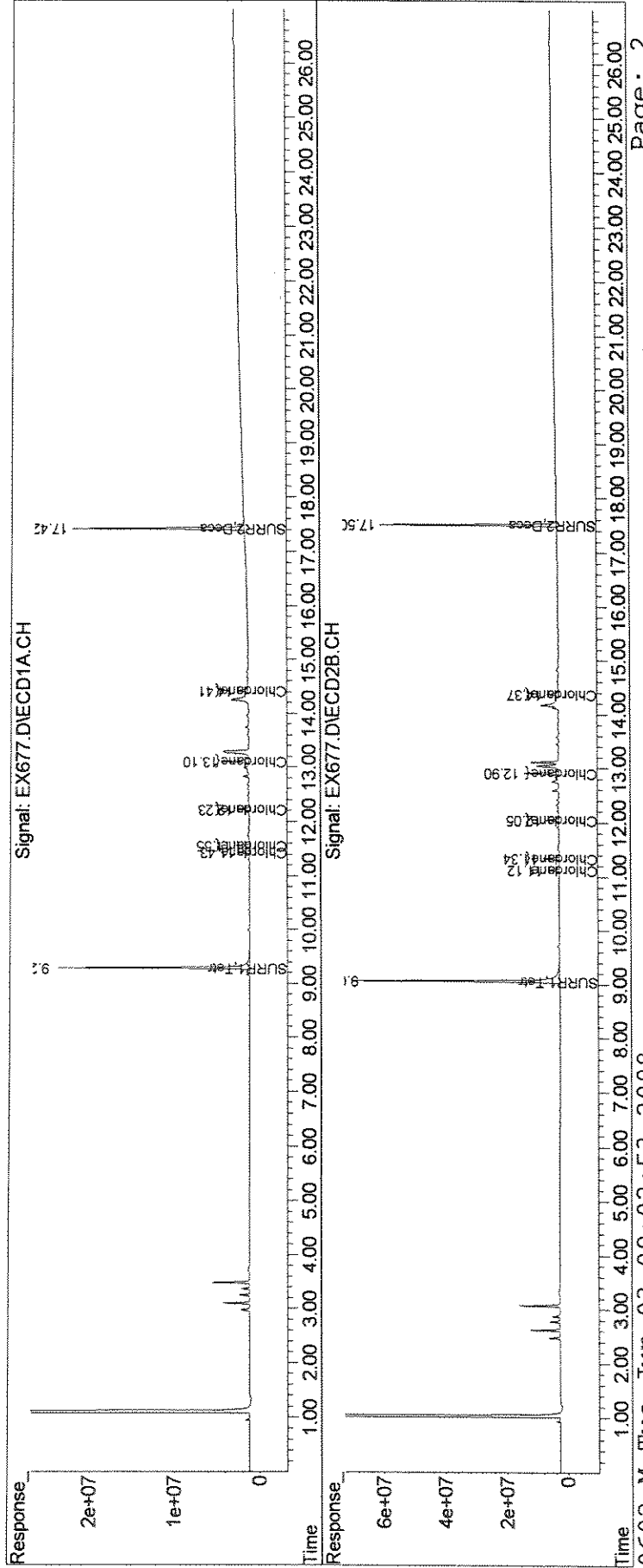
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.06	390.0E6	1294.1E6	20.681	22.003
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.68%#	22.00%#
25) S SURR2,Decachloro	17.42	17.50	359.6E6	957.6E6	20.718	21.144
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.72%#	21.14%#
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
31) L9C Chlordane	11.43	11.12	18565788	63519013	25.168	25.821
32) L9C Chlordane {2}	11.55	11.34	25947064	84310320	24.716	25.829
33) L9C Chlordane {3}	12.23	12.05	26069453	72646506	27.340	27.419
34) L9C Chlordane {4}	13.10	12.90	62418715	190.7E6	23.589	29.041
35) L9C Chlordane {5}	14.41	14.37	25099953	81723084	27.872	29.379
Sum Chlordane			158.1E6	492.9E6	128.685	137.489
Average Chlordane					25.737	27.498

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX677.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 10:05 pm
Operator : M.PEDRO
Sample : chlor l
Misc : initial cal
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 03 08:48:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00753

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX678.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 10:41 pm
 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: Jun 03 08:48:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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/1	ug/1
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System Monitoring Compounds

1) S SURR1,Tetrac	9.28	9.06	768.9E6	2516.1E6	40.770	42.779
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.77%	42.78%
25) S SURR2,Decachloro	17.42	17.50	698.7E6	1832.7E6	40.258	40.466
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.26%	40.47%

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

31) L9C Chlordane	11.43	11.12	37595021	125.7E6	50.964	51.081
32) L9C Chlordane {2}	11.56	11.34	52841542	169.3E6	50.334	51.857
33) L9C Chlordane {3}	12.23	12.05	50569698	142.1E6	53.034	53.621
34) L9C Chlordane {4}	13.10	12.91	132.8E6	392.5E6	50.201	59.762
35) L9C Chlordane {5}	14.41	14.37	44336596	153.9E6	49.233	55.331
Sum Chlordane			318.2E6	983.4E6	253.767	271.652
Average Chlordane					50.753	54.330

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : EX679.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 11:16 pm
 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: Jun 03 08:49:21 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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/1	ug/1
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System Monitoring Compounds

1) S SURR1,Tetrac	9.28	9.06	1183.7E6	3787.5E6	62.769	64.396 ^{ref}
Spiked Amount	100.000	Range 30 - 150	Recovery =		62.77%	64.40% ^{6/3}
25) S SURR2,Decachloro	17.42	17.50	1071.5E6	2781.5E6	61.740	61.414
Spiked Amount	100.000	Range 30 - 150	Recovery =		61.74%	61.41%

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

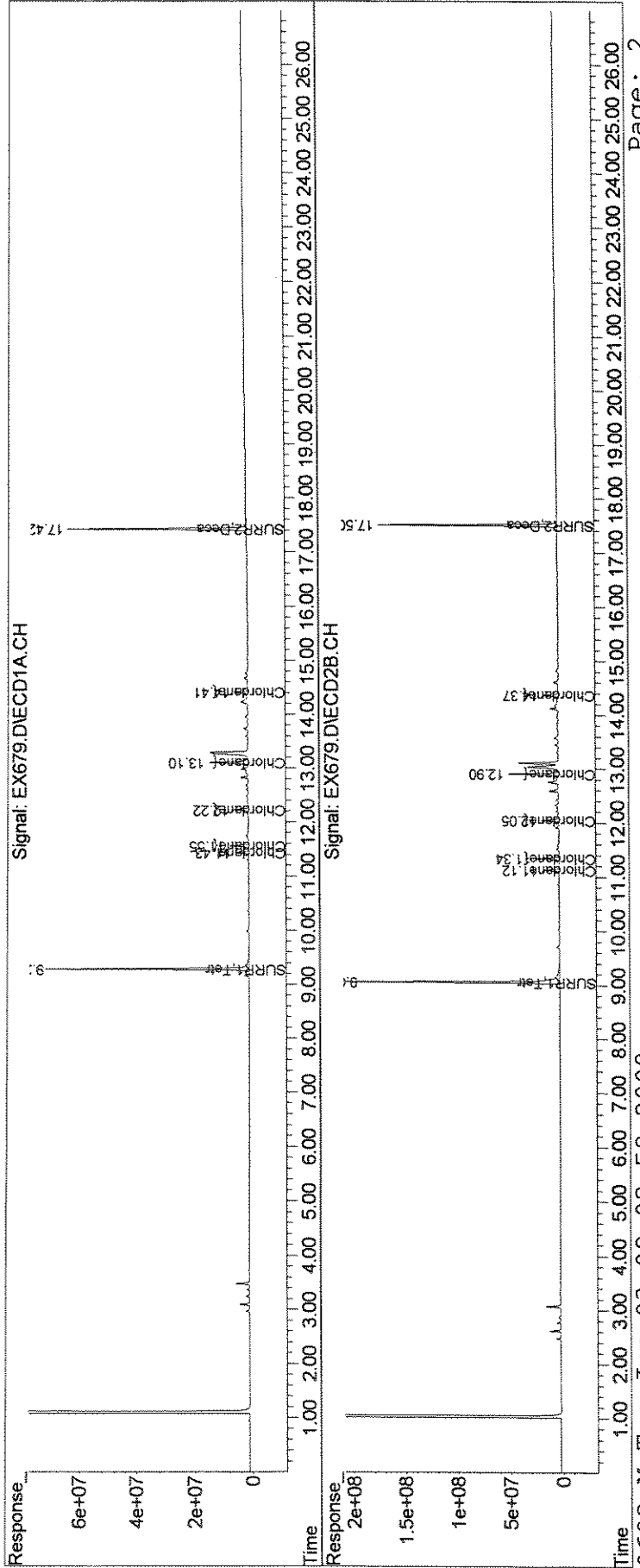
1) L9C Chlordane	11.43	11.12	75779007	252.5E6	102.727	102.636
2) L9C Chlordane {2}	11.56	11.34	108.2E6	344.2E6	103.050	105.457
3) L9C Chlordane {3}	12.22	12.05	99112978	278.7E6	103.943	105.184
4) L9C Chlordane {4}	13.10	12.90	274.2E6	800.4E6	103.610	121.875
5) L9C Chlordane {5}	14.41	14.37	97663410	296.4E6	108.449	106.557
Sum Chlordane			654.9E6	1972.2E6	521.779	541.707
Average Chlordane					104.356	108.341

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX679.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 11:16 pm
 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: Jun 03 08:49:21 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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



00757

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX680.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 11:53 pm
 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: Jun 03 08:49:59 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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
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 System Monitoring Compounds

1) S	SURR1,Tetrac	9.28	9.05	1582.9E6	4399.7E6	83.934	74.805
	Spiked Amount	100.000	Range 30 - 150	Recovery =		83.93%	74.81%
25) S	SURR2,Decachloro	17.42	17.50	1422.1E6	3684.9E6	81.942	81.362
	Spiked Amount	100.000	Range 30 - 150	Recovery =		81.94%	81.36%

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

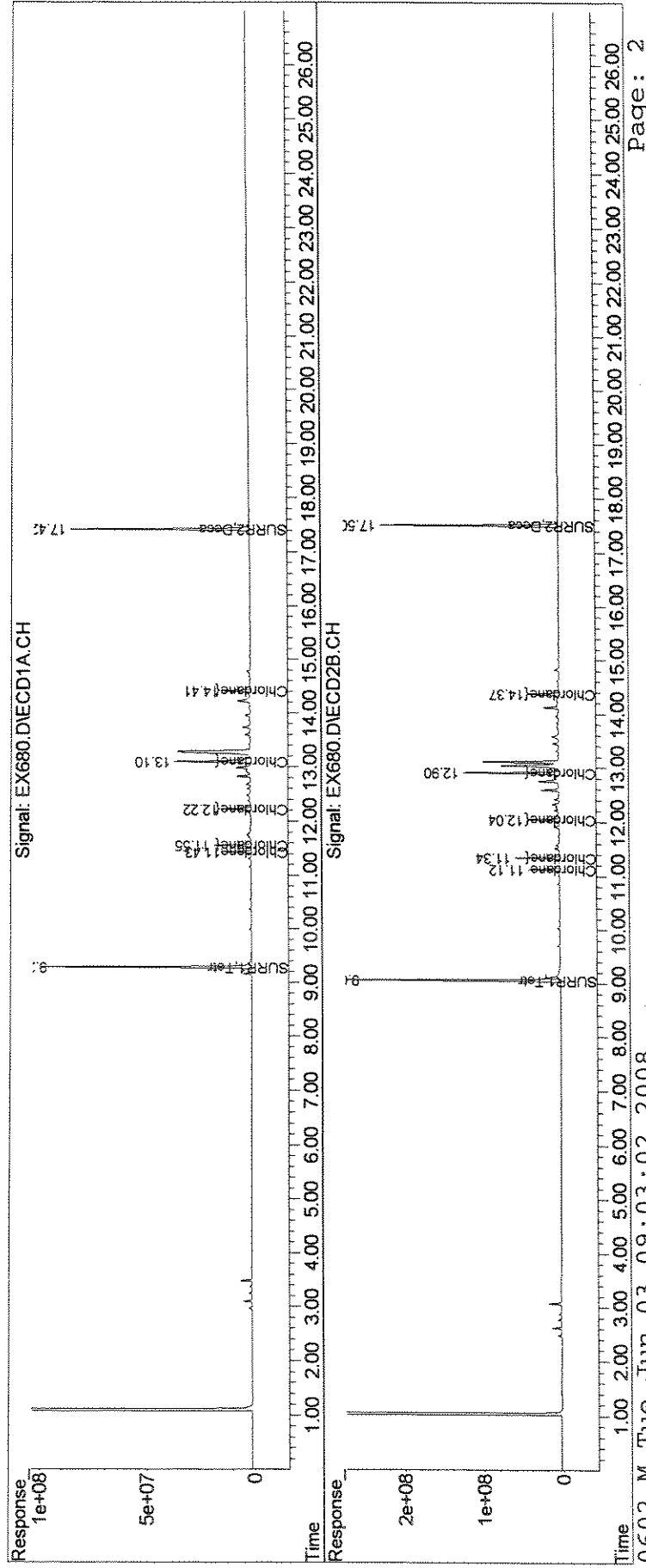
31) L9C	Chlordane	11.43	11.12	193.2E6	629.0E6	261.927	255.675
32) L9C	Chlordane {2}	11.55	11.34	278.0E6	864.6E6	264.795	264.867
33) L9C	Chlordane {3}	12.22	12.04	243.6E6	674.9E6	255.482	254.721
34) L9C	Chlordane {4}	13.10	12.90	713.5E6	2018.7E6	269.632	307.394
35) L9C	Chlordane {5}	14.41	14.37	238.0E6	735.8E6	264.305	264.528
	Sum Chlordane			1666.3E6	4923.0E6	1316.140	1347.184
	Average Chlordane					263.228	269.437

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX680.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 11:53 pm
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: Jun 03 08:49:59 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



00759

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : EX681.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 12:29 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: Jun 03 08:50:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 08:04:29 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	9.28	9.05	2003.1E6	5505.7E6	106.217	93.608
Spiked Amount	100.000	Range 30 - 150	Recovery	=	106.22%	93.61%
15) S SURR2,Decachloro	17.42	17.50	1803.5E6	4662.7E6	103.917	102.950
Spiked Amount	100.000	Range 30 - 150	Recovery	=	103.92%	102.95%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
average Toxaphene					0.000	0.000
1) L9C Chlordane	11.43	11.12	400.5E6	1249.2E6	542.902	507.798
2) L9C Chlordane {2}	11.55	11.34	574.8E6	1721.8E6	547.523	527.473
3) L9C Chlordane {3}	12.22	12.04	489.5E6	1323.9E6	513.322	499.682
4) L9C Chlordane {4}	13.10	12.90	1467.7E6	4004.5E6	554.666	609.764
5) L9C Chlordane {5}	14.41	14.37	490.3E6	1485.1E6	544.419	533.897
Sum Chlordane			3422.7E6	9784.5E6	2702.832	2678.615
average Chlordane					540.566	535.723

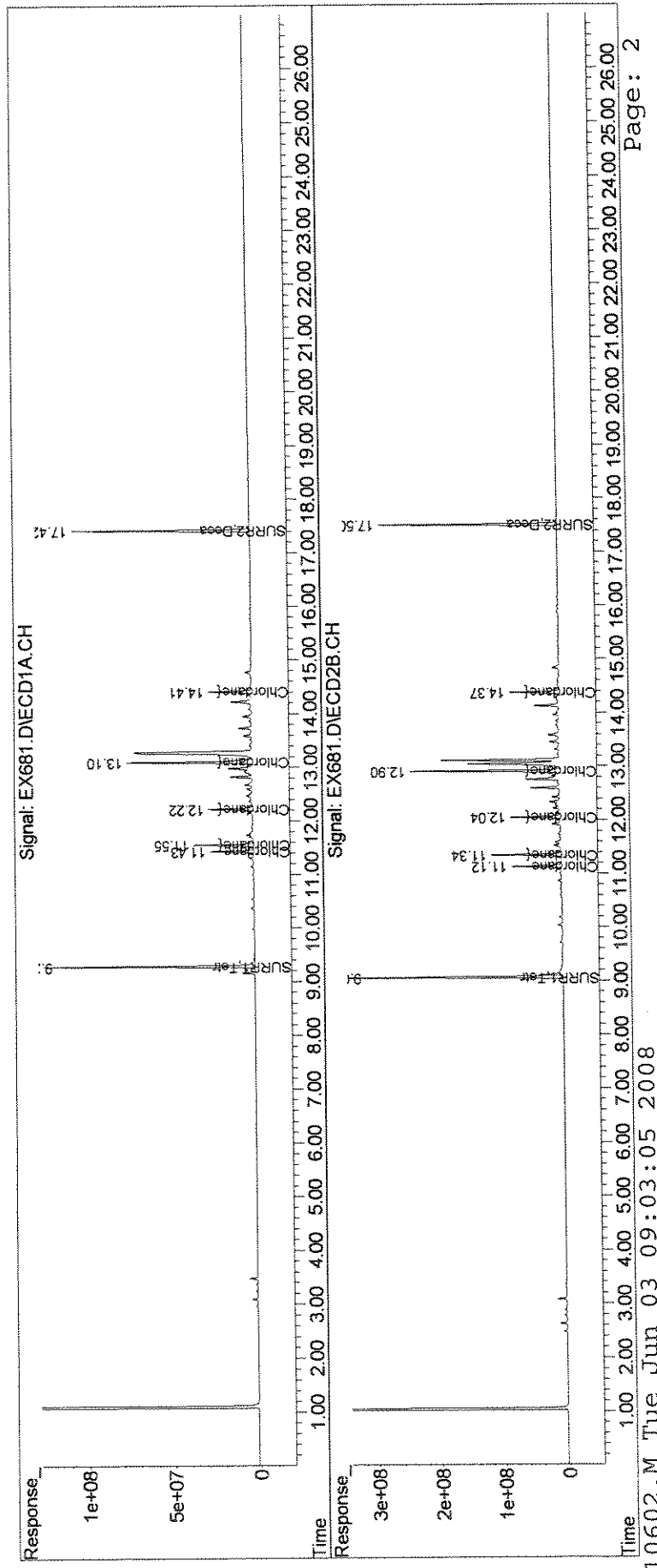
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MP
4/3

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : EX681.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2008 12:29 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: Jun 03 08:50:54 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 08:04:29 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



80771

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex671.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 6:31 pm
 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: Jun 03 09:14:20 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 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	6.258	7.817 E6	-24.9#	114	0.00
23 tc FAMPHUR	12.996	10.748 E6	17.3#	81	0.00

Signal #2

16 tc KEPONE	17.108	20.685 E6	-20.9#	113	0.00
23 tc FAMPHUR	31.788	27.293 E6	14.1	84	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1, Tetrac	18.833	0.000 E6	100.0#	0#	-9.28#
2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
3 tc alpha-BHC	30.031	0.000 E6	100.0#	0#	-10.28#
4 tcm gamma-BHC (L)	27.489	0.000 E6	100.0#	0#	-10.81#
5 tcm Heptachlor	26.908	0.000 E6	100.0#	0#	-11.55#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#
7 tc beta-BHC	11.546	0.000 E6	100.0#	0#	-10.96#
8 TC delta-BHC	27.657	0.000 E6	100.0#	0#	-11.24#
9 tc Heptachlor E	23.041	0.000 E6	100.0#	0#	-12.92#
10 tc alpha-Endosu	20.604	0.000 E6	100.0#	0#	-13.49#
11 tc gamma-Chlord	22.791	0.000 E6	100.0#	0#	-13.10#
12 tc alpha-Chlord	22.346	0.000 E6	100.0#	0#	-13.29#
13 tc 4,4'-DDE	22.482	0.000 E6	100.0#	0#	-13.40#
14 tcm Dieldrin	23.283	0.000 E6	100.0#	0#	-13.84#
15 tcm Endrin	20.860	0.000 E6	100.0#	0#	-14.18#
17 tc beta-Endosul	19.657	0.000 E6	100.0#	0#	-14.52#
18 tc 4,4'-DDD	18.810	0.000 E6	100.0#	0#	-14.27#
19 tcm 4,4'-DDT	20.032	0.000 E6	100.0#	0#	-14.67#
20 tc Endrin Aldeh	14.779	0.000 E6	100.0#	0#	-15.15#
21 tc Endosulfan S	18.138	0.000 E6	100.0#	0#	-15.79#

Data Path : J:\ACQUADATA\6890D\DATA\060208\
 Data File : ex671.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 02 Jun 2008 6:31 pm
 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: Jun 03 09:14:20 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 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
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System Monitoring Compounds

Target Compounds

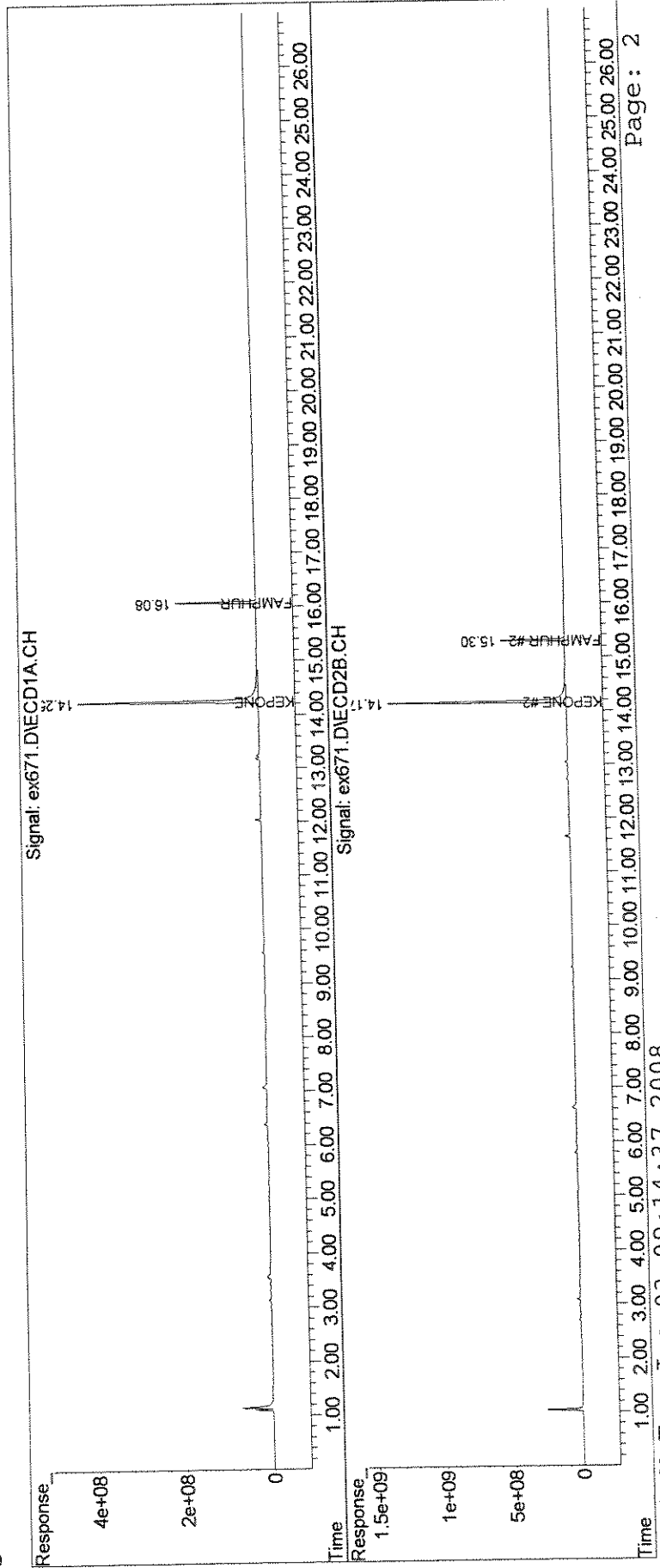
16) tc	KEPONE	14.25	14.17	11724.9E6	31026.8E6	1873.477	1813.637
23) tc	FAMPHUR	16.08	15.31	3224.5E6	8187.9E6	248.111	257.582
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : ex671.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2008 6:31 pm
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: Jun 03 09:14:20 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 09:00:21 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



00774

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex682.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 1:05 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: Jun 03 09:15:07 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 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)
3 tc alpha-BHC	30.031	28.948 E6	3.6	96	0.00
4 tcm gamma-BHC (L)	27.489	27.400 E6	0.3	100	0.00
5 tcm Heptachlor	26.908	26.882 E6	0.1	100	0.00
6 tcm Aldrin	24.613	24.163 E6	1.8	98	0.00
7 tc beta-BHC	11.546	11.011 E6	4.6	95	0.00
8 TC delta-BHC	27.657	26.010 E6	6.0	92	0.00
9 tc Heptachlor E	23.041	22.227 E6	3.5	97	0.00
10 tc alpha-Endosu	20.604	21.179 E6	-2.8	104	0.00
11 tc gamma-Chlord	22.791	22.200 E6	2.6	98	0.00
12 tc alpha-Chlord	22.346	20.663 E6	7.5	93	0.00
13 tc 4,4'-DDE	22.482	21.003 E6	6.6	92	0.00
14 tcm Dieldrin	23.283	22.652 E6	2.7	97	0.00
15 tcm Endrin	20.860	20.187 E6	3.2	96	0.00
17 tc beta-Endosul	19.657	18.107 E6	7.9	91	0.00
18 tc 4,4'-DDD	18.810	18.573 E6	1.3	99	0.00
19 tcm 4,4'-DDT	20.032	20.987 E6	-4.8	104	0.00
20 tc Endrin Aldeh	14.779	14.729 E6	0.3	99	0.00
21 tc Endosulfan S	18.138	17.528 E6	3.4	96	0.00
22 tc Methoxychlor	9.870	9.410 E6	4.7	95	0.00
24 tc Endrin Keton	20.882	20.600 E6	1.4	98	0.00

Signal #2

3 tc alpha-BHC	92.467	91.349 E6	1.2	98	0.00
4 tcm gamma-BHC (L)	82.157	82.351 E6	-0.2	100	0.00
5 tcm Heptachlor	79.864	85.912 E6	-7.6	107	0.00
6 tcm Aldrin	74.947	74.059 E6	1.2	98	0.00
7 tc beta-BHC	35.673	34.943 E6	2.0	99	0.00
8 tc delta-BHC	83.093	75.070 E6	9.7	89	0.00
9 tc Heptachlor E	67.193	65.569 E6	2.4	97	0.00

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex682.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 1:05 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: Jun 03 09:15:07 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 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	59.586	61.379 E6	-3.0	102	0.00
11 tc gamma-Chlord	69.724	68.491 E6	1.8	98	0.00
12 tc alpha-Chlord	66.415	63.054 E6	5.1	95	0.00
13 tc 4,4'-DDE	65.177	63.899 E6	2.0	97	0.00
14 tcm Dieldrin	65.254	66.118 E6	-1.3	100	0.00
15 tcm Endrin	56.721	56.324 E6	0.7	98	0.00
17 tc beta-Endosul	54.846	54.462 E6	0.7	98	0.00
18 tc 4,4'-DDD	51.629	52.103 E6	-0.9	100	0.00
19 tcm 4,4'-DDT	54.800	59.221 E6	-8.1	107	0.00
20 tc Endrin Aldehy	40.233	41.530 E6	-3.2	102	0.00
21 tc Endosulfan S	49.634	48.669 E6	1.9	97	0.00
22 tc Methoxychlor	24.116	23.323 E6	3.3	96	0.00
24 tc Endrin Keton	54.137	55.164 E6	-1.9	101	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	18.833	0.000 E6	100.0#	0#	-9.28#
2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
16 tc KEPONE	6.258	0.000 E6	100.0#	0#	-14.24#
23 tc FAMPHUR	12.996	0.000 E6	100.0#	0#	-16.08#
25 S SURR2,Decachlorobiphenyl	17.080	0.000 E6	100.0#	0#	-17.42#
26 L8C Toxaphene	417.607	0.000 E3	100.0#	0#	-14.60#
27 L8C Toxaphene {2}	374.938	0.000 E3	100.0#	0#	-14.68#
28 L8C Toxaphene {3}	715.141	0.000 E3	100.0#	0#	-15.29#
29 L8C Toxaphene {4}	888.874	0.000 E3	100.0#	0#	-16.15#
30 L8C Toxaphene {5}	675.161	0.000 E3	100.0#	0#	-16.35#
31 L9C Chlordane	765.232	0.000 E3	100.0#	0#	-11.43#
32 L9C Chlordane {2}	1.088	0.000 E6	100.0#	0#	-11.55#
33 L9C Chlordane {3}	999.737	0.000 E3	100.0#	0#	-12.22#
34 L9C Chlordane {4}	2.737	0.000 E6	100.0#	0#	-13.10#

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex682.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 1:05 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: Jun 03 09:15:07 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 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
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System Monitoring Compounds

*mw
4/3*

Target Compounds

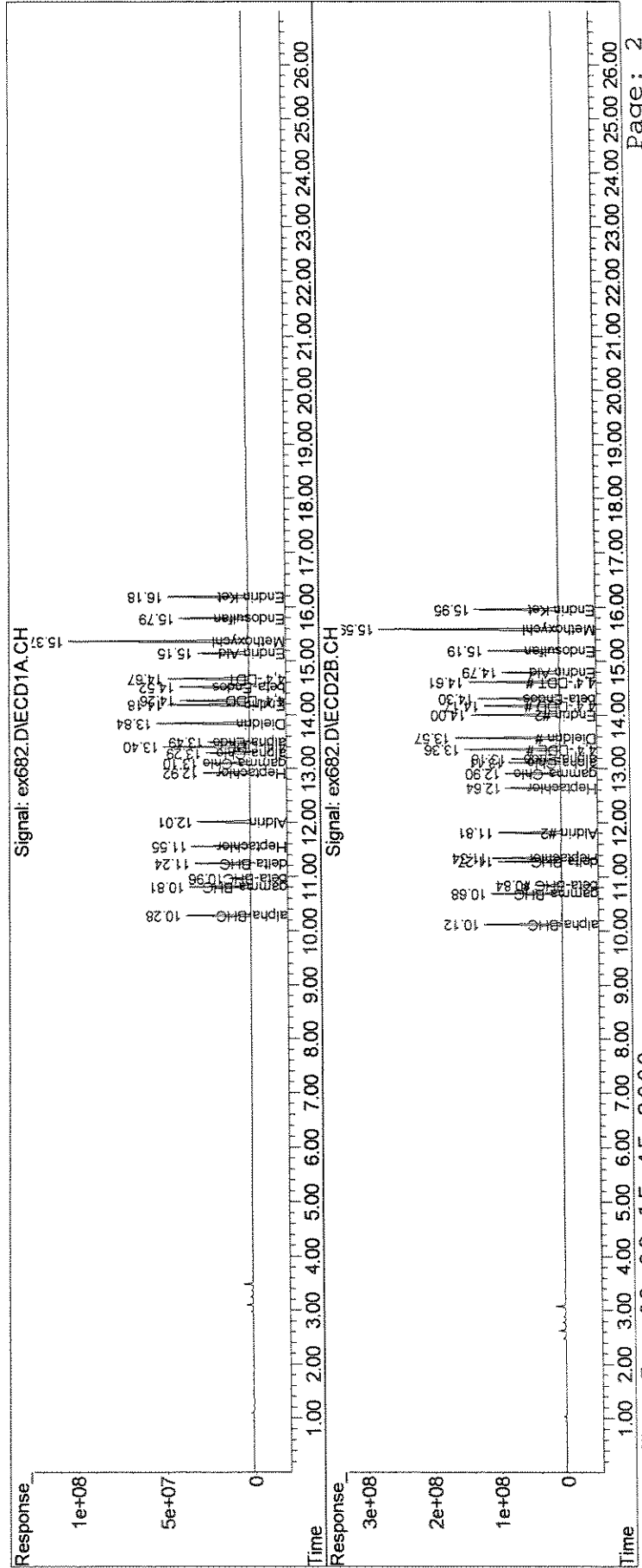
3)	tc	alpha-BHC	10.28	10.12	579.0E6	1827.0E6	19.279	19.758
4)	tcm	gamma-BHC (L	10.81	10.68	548.0E6	1647.0E6	19.935	20.047
5)	tcm	Heptachlor	11.55	11.34	537.6E6	1718.2E6	19.980	21.515
6)	tcm	Aldrin	12.01	11.81	483.3E6	1481.2E6	19.635	19.763
7)	tc	beta-BHC	10.96	10.84	220.2E6	698.9E6	19.075	19.591
8)	tc	delta-BHC	11.24	11.27	520.2E6	1501.4E6	18.809	18.069
9)	tc	Heptachlor E	12.92	12.64	444.5E6	1311.4E6	19.293	19.517
10)	tc	alpha-Endosu	13.49	13.18	423.6E6	1227.6E6	20.559	20.602
11)	tc	gamma-Chlord	13.10	12.91	444.0E6	1369.8E6	19.481	19.646
12)	tc	alpha-Chlord	13.29	13.11	413.3E6	1261.1E6	18.493	18.988
13)	tc	4,4'-DDE	13.40	13.36	840.1E6	2556.0E6	37.369	39.216
14)	tcm	Dieldrin	13.84	13.57	906.1E6	2644.7E6	38.916	40.530
15)	tcm	Endrin	14.18	14.00	807.5E6	2253.0E6	38.710	39.720
17)	tc	beta-Endosul	14.52	14.30	724.3E6	2178.5E6	36.845	39.720
18)	tc	4,4'-DDD	14.27	14.17	742.9E6	2084.1E6	39.496	40.367
19)	tcm	4,4'-DDT	14.67	14.61	839.5E6	2368.8E6	41.908	43.227
20)	tc	Endrin Aldeh	15.15	14.79	589.1E6	1661.2E6	39.865	41.289
21)	tc	Endosulfan S	15.79	15.19	701.1E6	1946.8E6	38.655	39.222
22)	tc	Methoxychlor	15.37	15.59	1882.1E6	4664.6E6	190.692	193.424
24)	tc	Endrin Keton	16.19	15.95	824.0E6	2206.5E6	39.460	40.759
		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.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : ex682.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2008 1:05 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: Jun 03 09:15:07 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 09:00:21 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



00778

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex683.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 1:40 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: Jun 03 09:16:08 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 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	417.607	440.007 E3	-5.4	106	0.00
27 L8C Toxaphene {2}	374.938	366.661 E3	2.2	106	0.00
28 L8C Toxaphene {3}	715.141	736.848 E3	-3.0	108	0.00
29 L8C Toxaphene {4}	888.874	894.086 E3	-0.6	109	0.00
30 L8C Toxaphene {5}	675.161	702.423 E3	-4.0	108	0.00

Signal #2

26 L8C Toxaphene	1.638	1.642 E6	-0.2	107	0.00
27 L8C Toxaphene {2}	769.293	791.716 E3	-2.9	109	0.00
28 L8C Toxaphene {3}	1.652	1.713 E6	-3.7	109	0.00
29 L8C Toxaphene {4}	1.627	1.694 E6	-4.1	110	0.00
30 L8C Toxaphene {5}	1.742	1.849 E6	-6.1	111	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1, Tetrac	18.833	0.000 E6	100.0#	0#	-9.28#
2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
3 tc alpha-BHC	30.031	0.000 E6	100.0#	0#	-10.28#
4 tcm gamma-BHC (L	27.489	0.000 E6	100.0#	0#	-10.81#
5 tcm Heptachlor	26.908	0.000 E6	100.0#	0#	-11.55#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#
7 tc beta-BHC	11.546	0.000 E6	100.0#	0#	-10.96#
8 TC delta-BHC	27.657	0.000 E6	100.0#	0#	-11.24#
9 tc Heptachlor E	23.041	0.000 E6	100.0#	0#	-12.92#
10 tc alpha-Endosu	20.604	0.000 E6	100.0#	0#	-13.49#
11 tc gamma-Chlord	22.791	0.000 E6	100.0#	0#	-13.10#
12 tc alpha-Chlord	22.346	0.000 E6	100.0#	0#	-13.29#
13 tc 4,4'-DDE	22.482	0.000 E6	100.0#	0#	-13.40#
14 tcm Dieldrin	23.283	0.000 E6	100.0#	0#	-13.84#

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex683.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 1:40 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: Jun 03 09:16:08 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 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/1	ug/1

System Monitoring Compounds						
Target Compounds						
26) L8C Toxaphene	14.60	14.42	220.0E6	820.9E6	526.819	501.036
27) L8C Toxaphene {2}	14.68	14.69	183.3E6	395.9E6	488.962	514.574
28) L8C Toxaphene {3}	15.29	14.80	368.4E6	856.4E6	515.177	518.362
29) L8C Toxaphene {4}	16.15	16.09	447.0E6	846.8E6	502.932	520.626
30) L8C Toxaphene {5}	16.35	16.33	351.2E6	924.4E6	520.190	530.741
Sum Toxaphene			1570.0E6	3844.4E6	2554.080	2585.339
Average Toxaphene					510.816	517.068
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

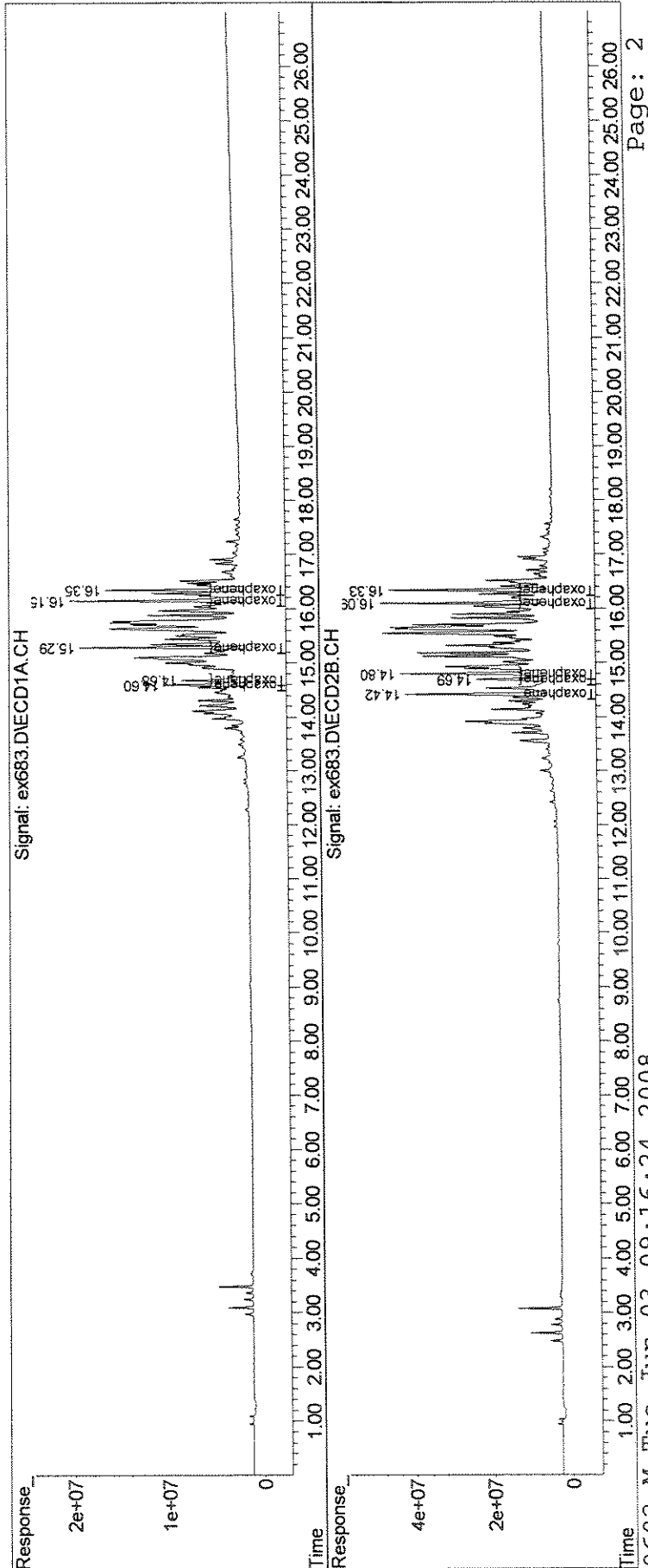
WJ
4/3

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : ex683.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2008 1:40 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: Jun 03 09:16:08 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 09:00:21 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



00781

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex684.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 2:16 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: Jun 03 09:16:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 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)
31 L9C Chlordane	765.232	795.559 E3	-4.0	105	0.00
32 L9C Chlordane {2}	1.088	1.137 E6	-4.5	105	0.00
33 L9C Chlordane {3}	999.737	1044.839 E3	-4.5	105	0.00
34 L9C Chlordane {4}	2.737	2.909 E6	-6.3	106	0.00
35 L9C Chlordane {5}	959.997	988.920 E3	-3.0	101	0.00

Signal #2

31 L9C Chlordane	2.519	2.664 E6	-5.8	105	0.00
32 L9C Chlordane {2}	3.420	3.639 E6	-6.4	106	0.00
33 L9C Chlordane {3}	2.776	2.952 E6	-6.3	106	0.00
34 L9C Chlordane {4}	7.913	8.484 E6	-7.2	106	0.00
35 L9C Chlordane {5}	3.045	3.068 E6	-0.8	104	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1, Tetrac	18.833	0.000 E6	100.0#	0#	-9.28#
2 TC HEXACHLORO BENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
3 tc alpha-BHC	30.031	0.000 E6	100.0#	0#	-10.28#
4 tcm gamma-BHC (L	27.489	0.000 E6	100.0#	0#	-10.81#
5 tcm Heptachlor	26.908	0.000 E6	100.0#	0#	-11.55#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#
7 tc beta-BHC	11.546	0.000 E6	100.0#	0#	-10.96#
8 TC delta-BHC	27.657	0.000 E6	100.0#	0#	-11.24#
9 tc Heptachlor E	23.041	0.000 E6	100.0#	0#	-12.92#
10 tc alpha-Endosu	20.604	0.000 E6	100.0#	0#	-13.49#
11 tc gamma-Chlord	22.791	0.000 E6	100.0#	0#	-13.10#
12 tc alpha-Chlord	22.346	0.000 E6	100.0#	0#	-13.29#
13 tc 4,4'-DDE	22.482	0.000 E6	100.0#	0#	-13.40#
14 tcm Dieldrin	23.283	0.000 E6	100.0#	0#	-13.84#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\060208\
 Data File : ex684.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Jun 2008 2:16 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: Jun 03 09:16:49 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jun 03 09:00:21 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
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System Monitoring Compounds

Target Compounds

Sum Toxaphene	0	0	N.D.	N.D.		
Average Toxaphene			0.000	0.000		

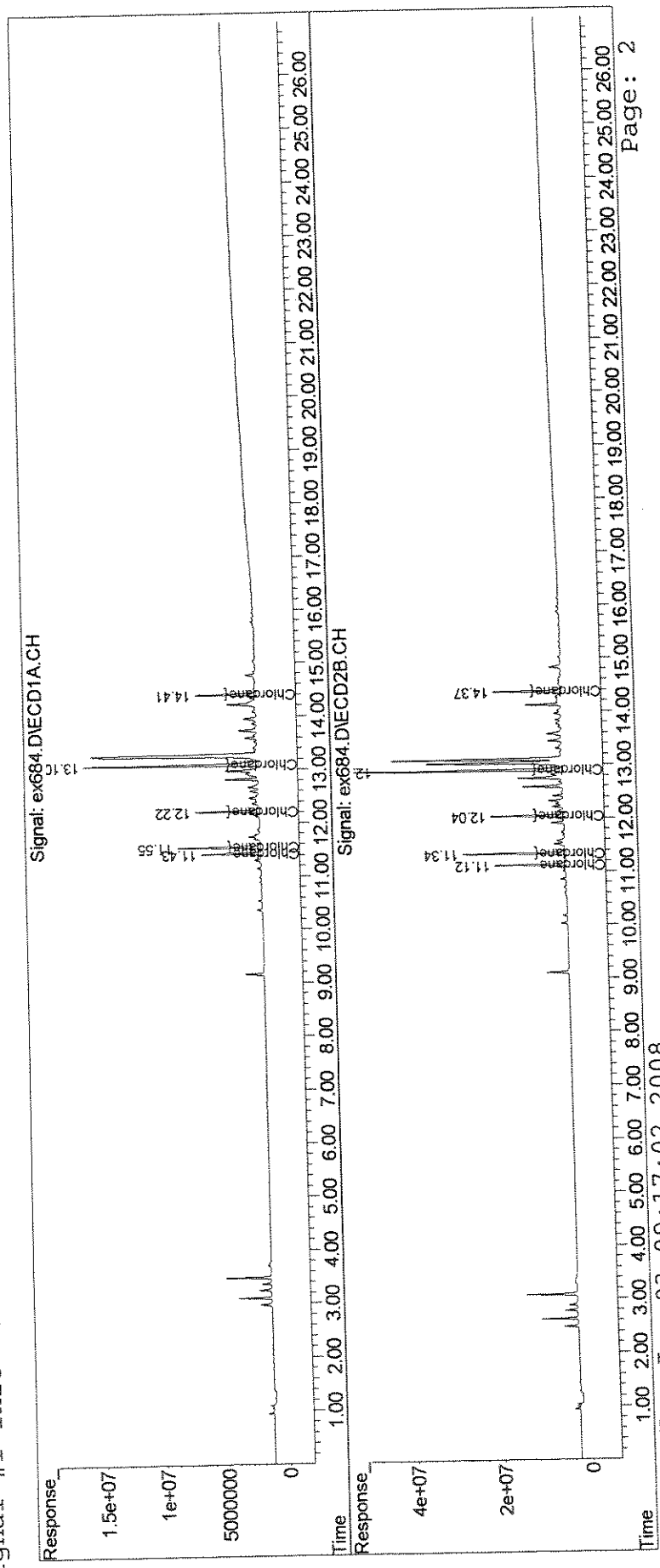
31) L9C Chlordane	11.43	11.12	79555900	266.4E6	103.963	105.760
32) L9C Chlordane {2}	11.55	11.34	113.7E6	363.9E6	104.532	106.395
33) L9C Chlordane {3}	12.22	12.04	104.5E6	295.2E6	104.511	106.321
34) L9C Chlordane {4}	13.10	12.90	290.9E6	848.4E6	106.279	107.209
35) L9C Chlordane {5}	14.41	14.37	98892038	306.8E6	103.013	100.750
Sum Chlordane			687.5E6	2080.6E6	522.298	526.435
Average Chlordane					104.460	105.287

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\060208\
Data File : ex684.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2008 2:16 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: Jun 03 09:16:49 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jun 03 09:00:21 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



00784

Pesticide Initial Calibration of Multicomponent Analytes

Lab Name: Columbia Analytical Services Client: ENSR
 Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B
 Instrument ID: 6890D Date Analyzed: 7/10/2008

GC Column(1) <u>STx-CLP</u> (ID): <u>0.32mm 30</u>				GC Column(2) <u>STx-CLPII</u> (ID): <u>0.32mm 30</u>		
Compound	RT	RT Window		RT	RT Window	
		From	To		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

Pesticide Initial Calibration of Multicomponent Analytes

Lab Name: Columbia Analytical Services Client: ENSR
 Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B
 Instrument ID: 6890D Date Analyzed: 7/10/2008

Compound	GC Column(1) <u>STx-CLP</u> (ID): <u>0.32mm 30</u>			GC Column(2) <u>STx-CLPII</u> (ID): <u>0.32mm 30</u>		
	RT	RT Window From To		RT	RT Window 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

Response Factor Report 6890D

Method Path : J:\ACQUADATA\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
0) tc alpha-Endosu	2.119	2.103	2.050	2.009	1.950	2.046	E7 3.38
1) tc gamma-Chlord	2.316	2.242	2.182	2.143	2.080	2.192	E7 4.14
2) tc alpha-Chlord	2.241	2.177	2.125	2.116	2.036	2.139	E7 3.57
3) tc 4,4'-DDE	2.269	2.251	2.198	2.153	2.020	2.178	E7 4.58
4) tcm Dieldrin	2.352	2.377	2.323	2.249	2.121	2.284	E7 4.51
5) tcm Endrin	2.149	2.161	2.099	2.033	1.916	2.072	E7 4.86
6) tc KEPONE	7.245	7.448	7.866	7.073	6.947	7.316	E6 4.93
7) tc beta-Endosul	1.931	1.900	1.869	1.853	1.742	1.859	E7 3.88
8) tc 4,4'-DDD	1.881	1.866	1.760	1.771	1.719	1.799	E7 3.92
9) 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

Data Path : J:\ACQUADATA\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:\ACQUADATA\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

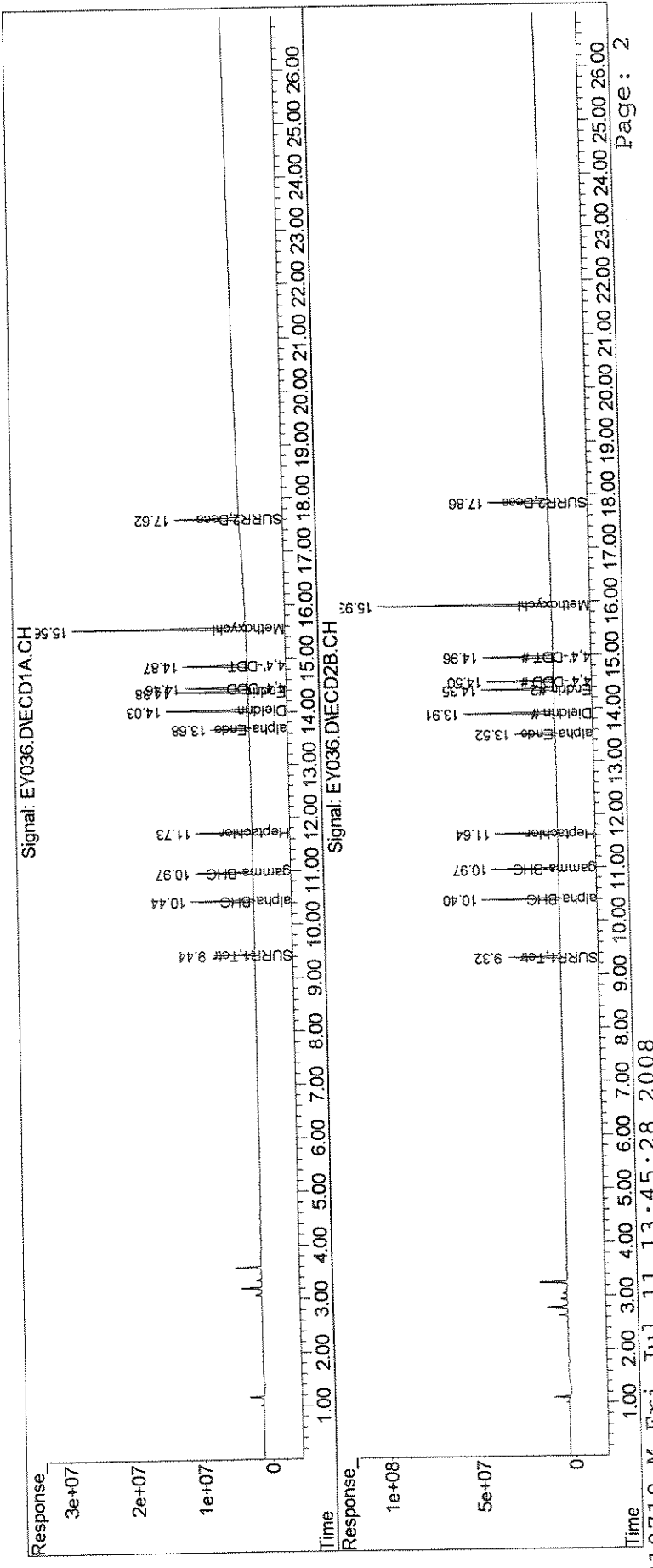
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	97082202	409.7E6	5.262	6.970 #
Spiked Amount	100.000	Range	30 - 150	Recovery =	5.26%#	6.97%#
5) S SURR2,Decachloro	17.62	17.86	174.2E6	559.5E6	10.180m	12.981m#
Spiked Amount	100.000	Range	30 - 150	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 #
0) tc alpha-Endosu	13.68	13.52	97505664	357.3E6	4.903	6.274 #
4) tcm Dieldrin	14.03	13.91	212.1E6	784.4E6	9.521	12.848 #
5) tcm Endrin	14.38	14.36	191.6E6	662.4E6	9.496	11.954 #
8) tc 4,4'-DDD	14.46	14.50	171.9E6	615.9E6	10.160	13.495 #
9) tcm 4,4'-DDT	14.87	14.96	173.3E6	628.4E6	9.367	12.977 #
2) 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.

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



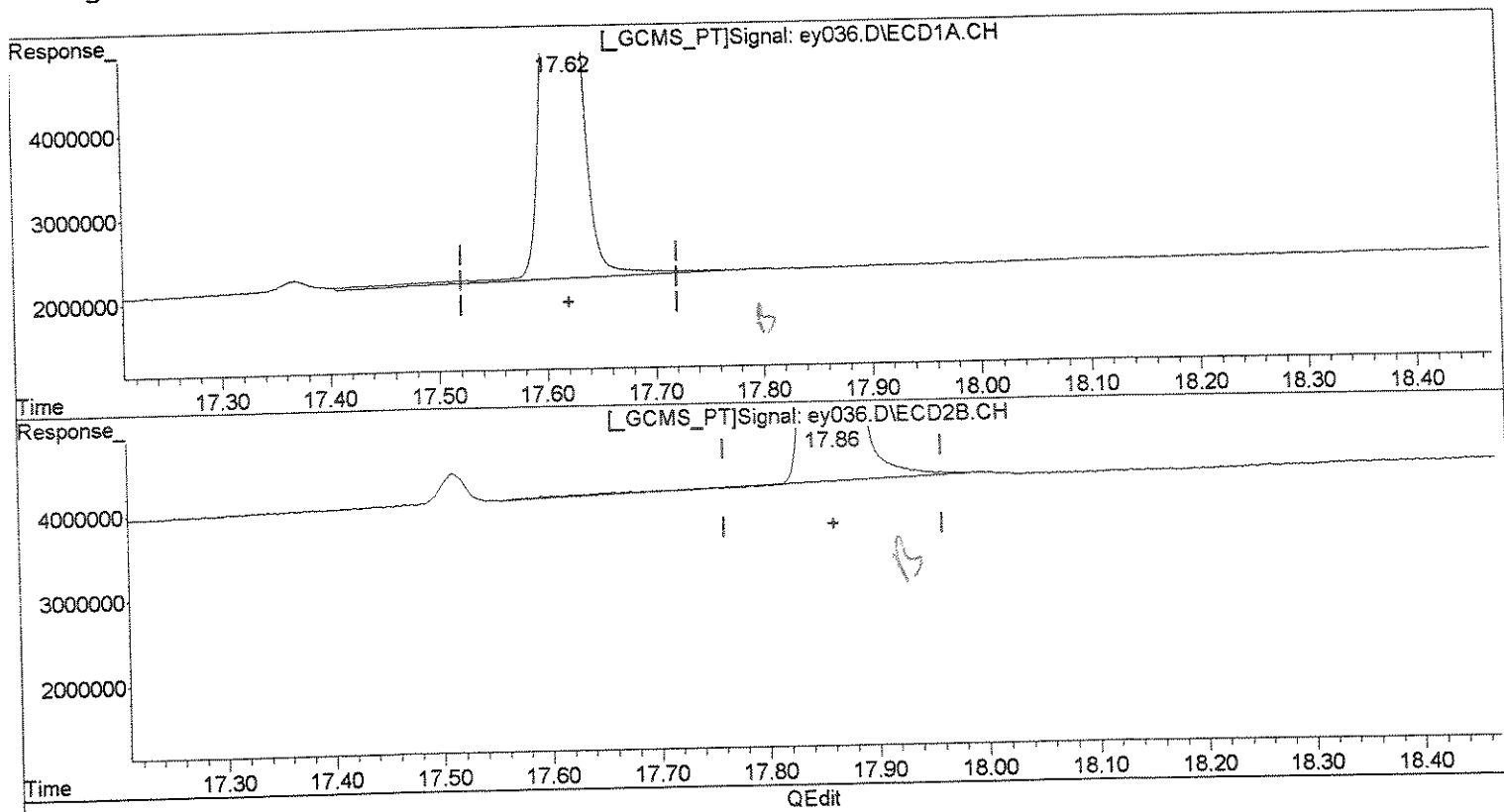
00790

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

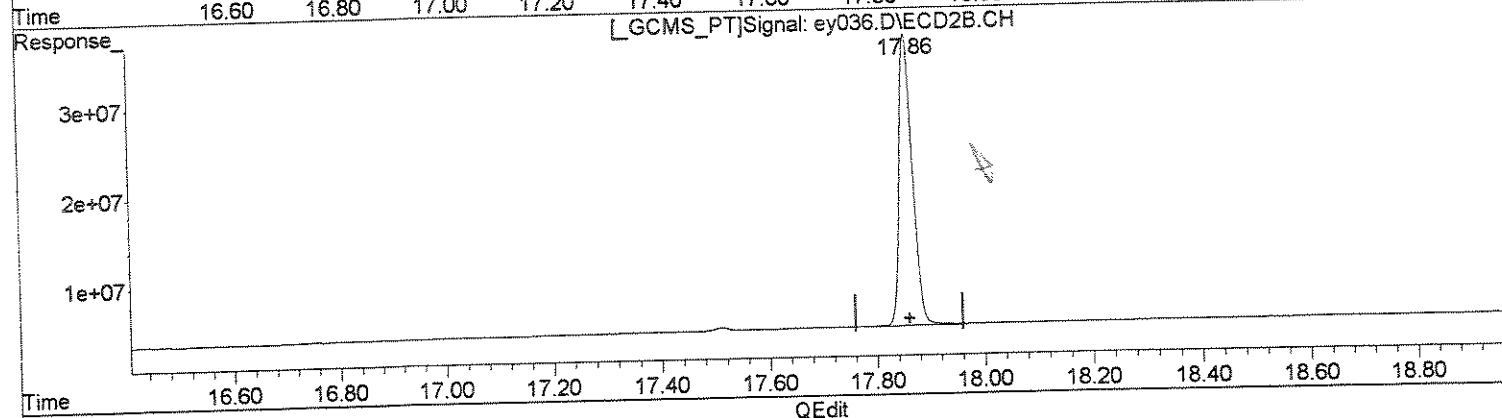
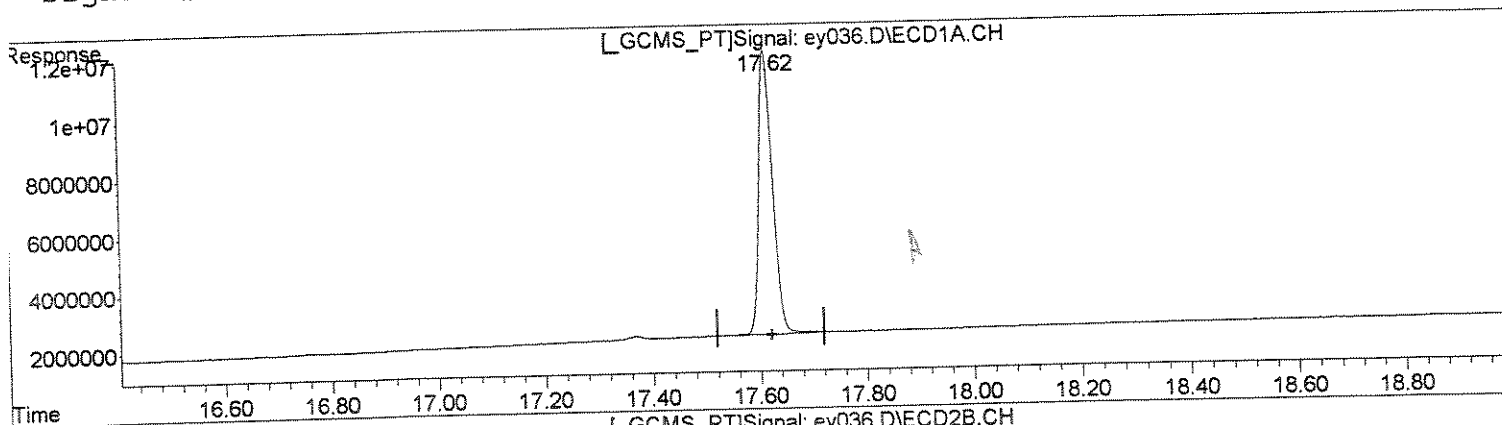
500K

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 10.180ug/l m
response 174185870

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 12.981ug/l m
response 559510438

Handwritten notes:
MW 7/11
17/11

Data Path : J:\ACQUADATA\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:\ACQUADATA\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/1	ug/1

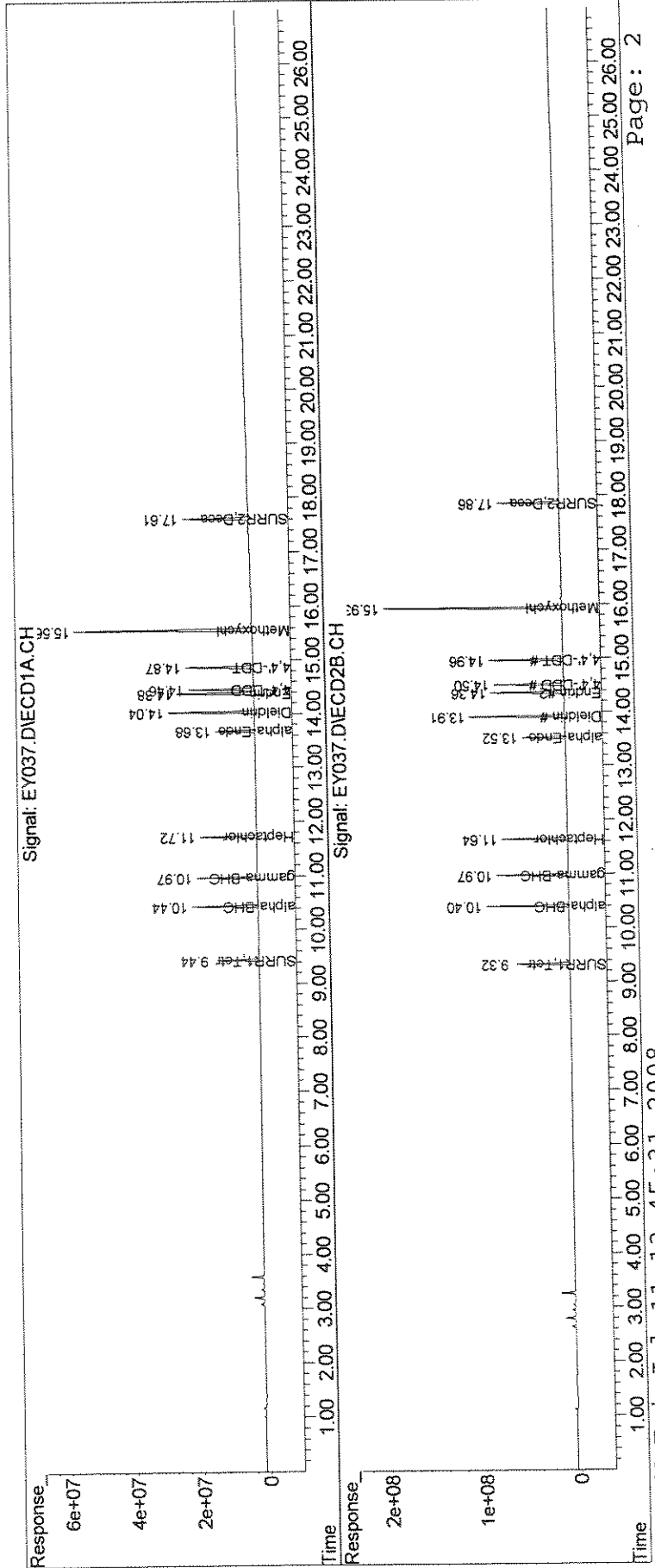
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	198.7E6	834.4E6	10.772	14.196 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		10.77%#	14.20%#
25) S SURR2,Decachloro	17.62	17.86	353.1E6	1107.5E6	20.637	25.694
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.64%#	25.69%#
Target Compounds						
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.

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



00794

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

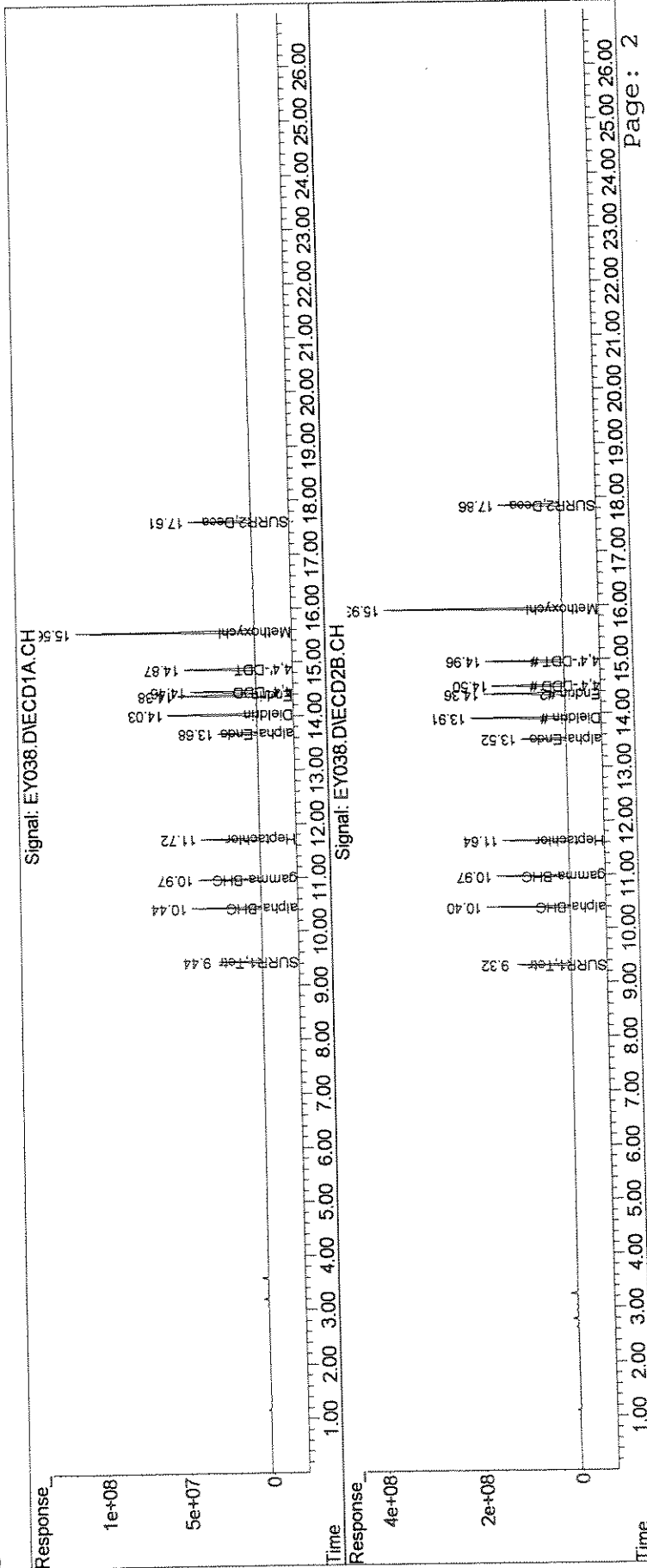
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	404.7E6	1635.7E6	21.936	27.829 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		21.94%#	27.83%#
5) S SURR2,Decachloro	17.62	17.86	702.0E6	2225.3E6	41.028	51.629 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		41.03%	51.63%
Target Compounds						
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.

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



00796

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

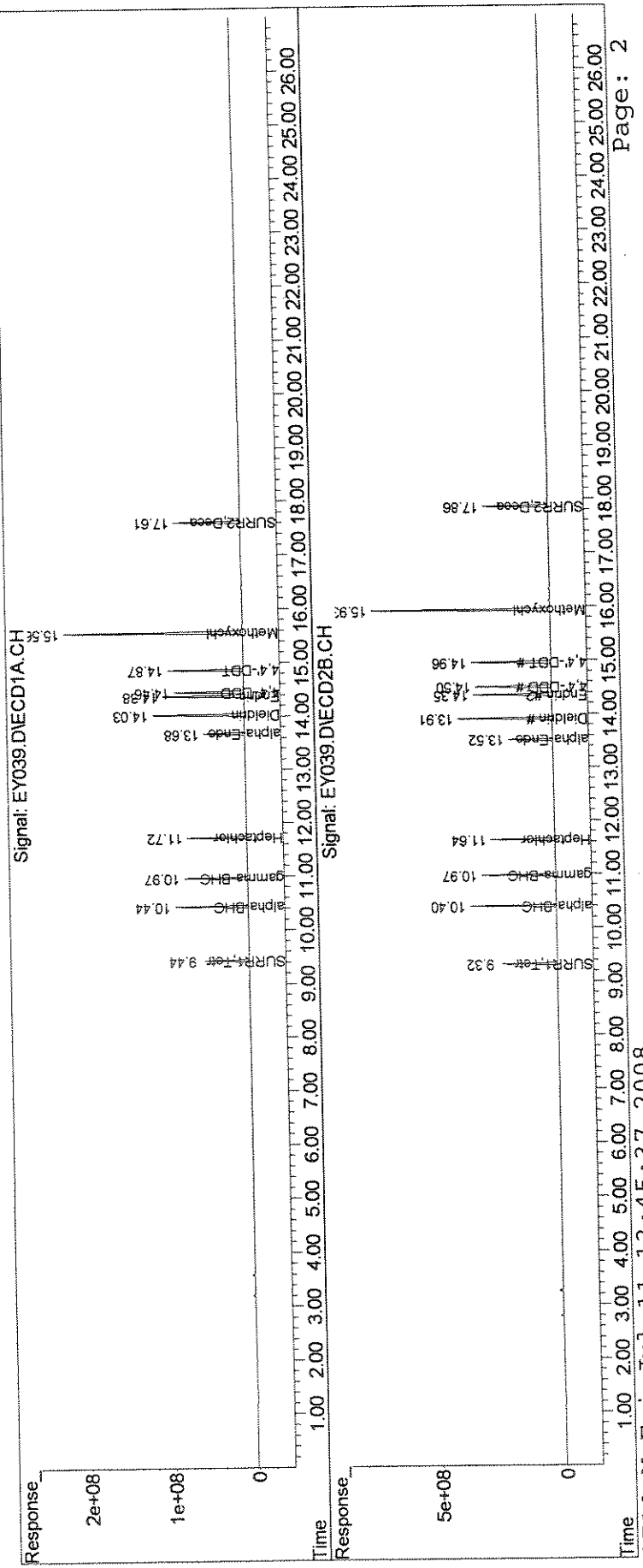
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	826.3E6	3208.5E6	44.783	54.588
Spiked Amount	100.000	Range	30 - 150	Recovery =	44.78%	54.59%
5) S SURR2,Decachloro	17.61	17.86	1388.6E6	4357.3E6	81.150	101.092
Spiked Amount	100.000	Range	30 - 150	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
0) tc alpha-Endosu	13.68	13.52	841.0E6	2839.6E6	42.290	49.859
4) tcm Dieldrin	14.03	13.91	1901.4E6	6247.8E6	85.342	102.342
5) tcm Endrin	14.38	14.36	1729.0E6	5434.2E6	85.692	98.063
8) tc 4,4'-DDD	14.46	14.50	1492.8E6	5022.6E6	88.234	110.050
9) tcm 4,4'-DDT	14.87	14.96	1605.0E6	5336.8E6	86.732	110.206 #
2) 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.

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 #1 Info : 0.32mm 30m
 Signal #2 Phase : STX-CLPII
 Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUADATA\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:\ACQUADATA\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	1657.4E6	6178.0E6	89.823	105.109
Spiked Amount	100.000	Range	30 - 150	Recovery =	89.82%	105.11%
5) 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
0) tc alpha-Endosu	13.68	13.52	1694.9E6	5442.9E6	85.223	95.567
4) tcm Dieldrin	14.03	13.91	3762.5E6	11766.0E6	168.877	192.732
5) tcm Endrin	14.38	14.35	3439.1E6	10501.3E6	170.446	189.499
8) tc 4,4'-DDD	14.46	14.50	3009.2E6	9698.6E6	177.865	212.505
9) tcm 4,4'-DDT	14.87	14.96	3258.9E6	10455.7E6	176.111	215.911
2) 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

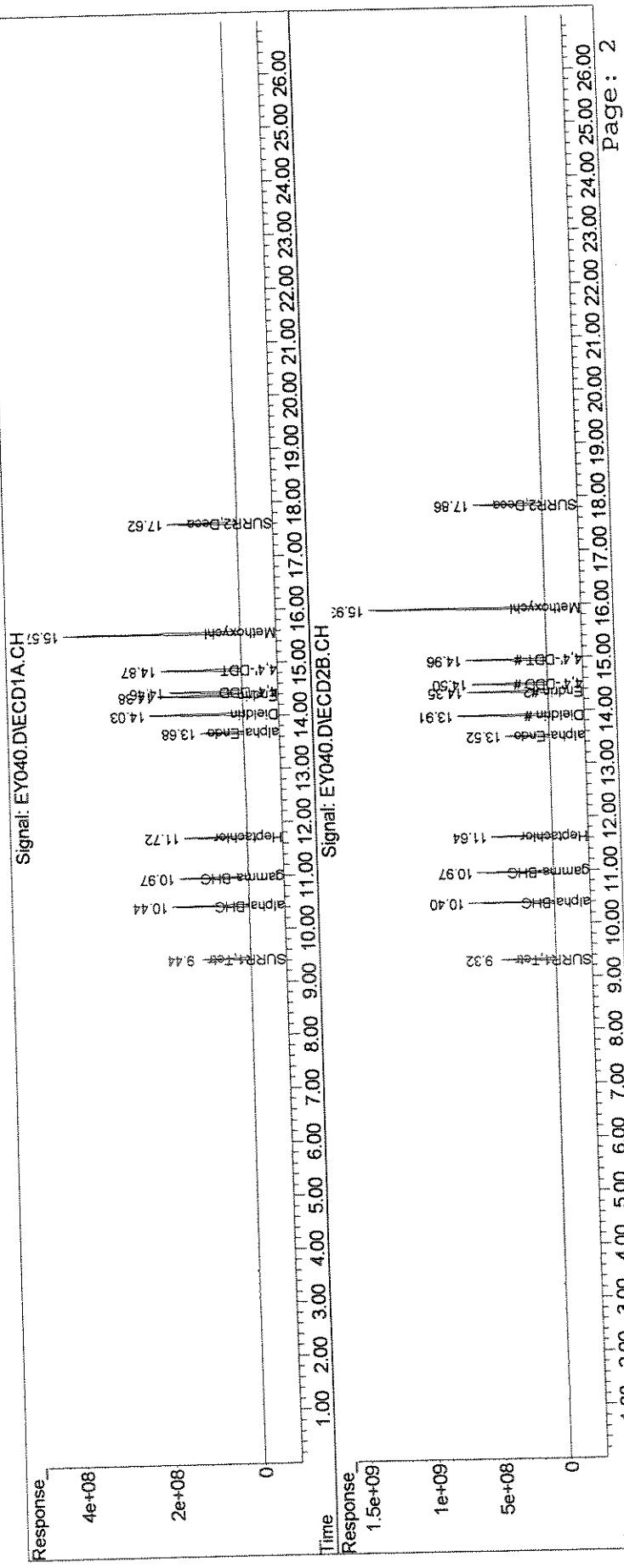
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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



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%#
15) 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

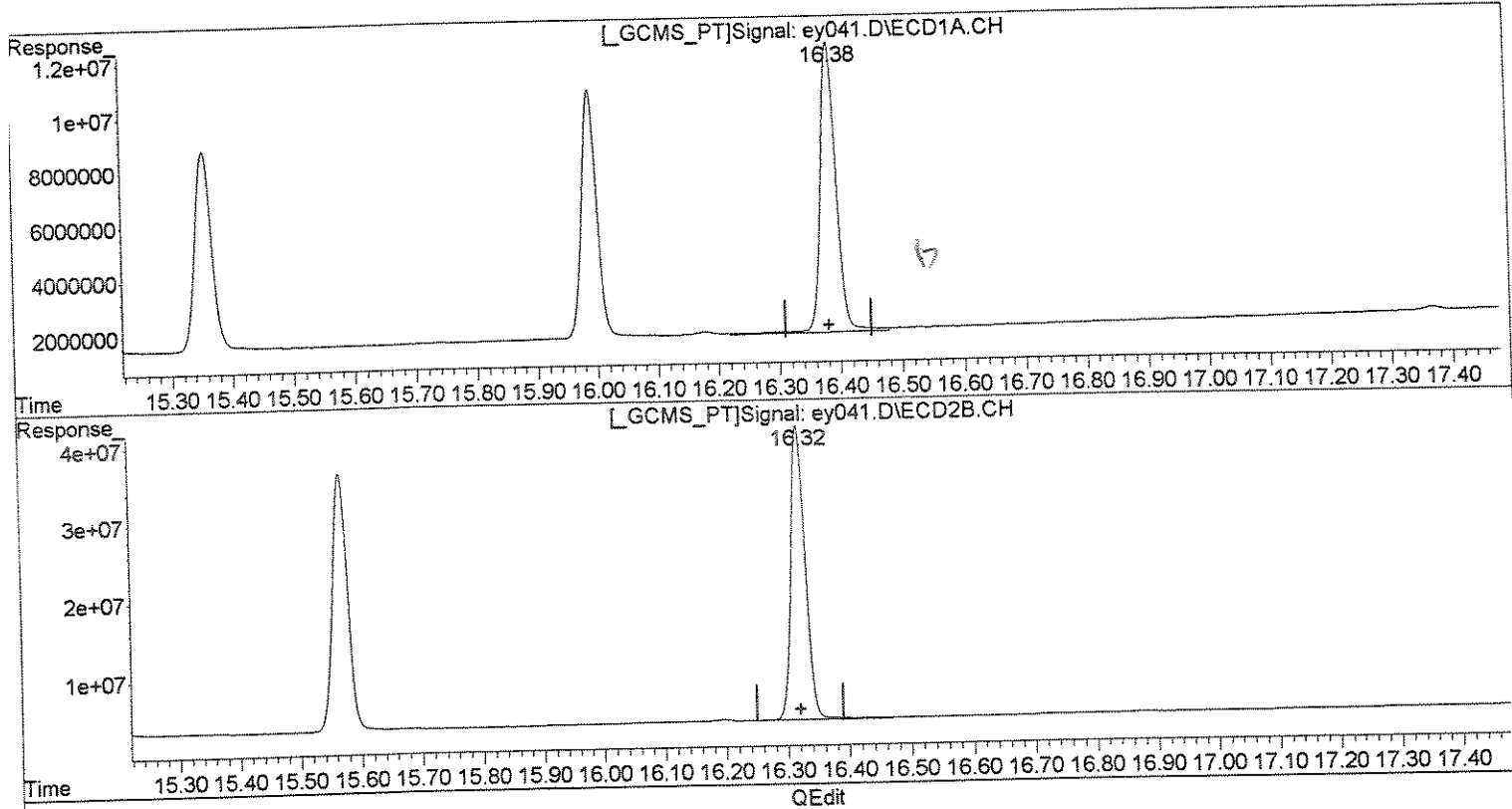
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (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



(24) Endrin Keton (tc)
16.38min 9.960ug/l
response 191325325

(24) Endrin Keton #2 (tc)
16.32min 12.523ug/l
response 613785726

Handwritten mark

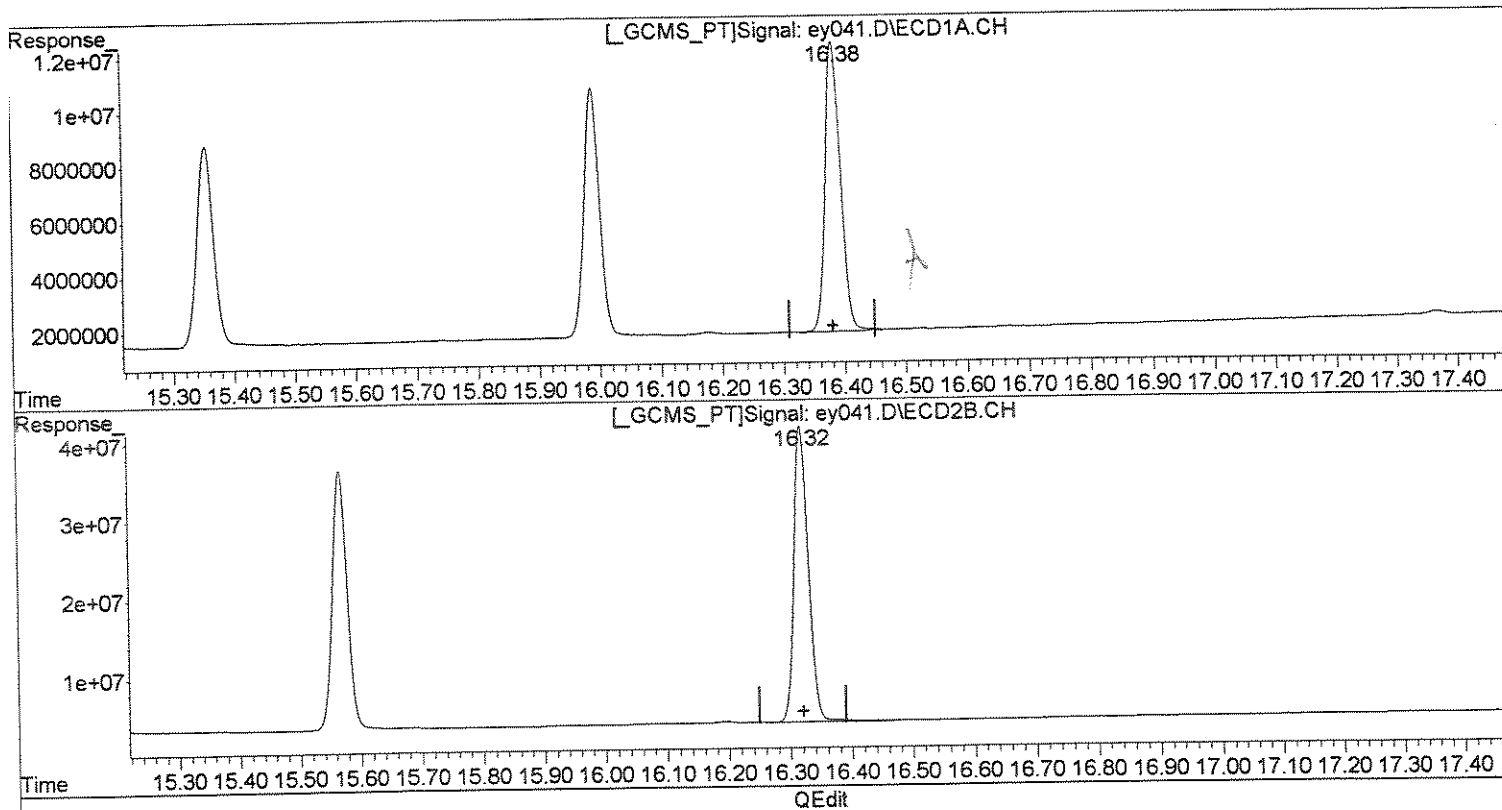
QEdit

Quantitation Report (Qedit)

Data Path : J:\ACQUADATA\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:\ACQUADATA\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



(24) Endrin Keton (tc)
16.38min 9.561ug/l m
response 183675443

(24) Endrin Keton #2 (tc)
16.32min 12.523ug/l
response 613785726

MLA
7/11

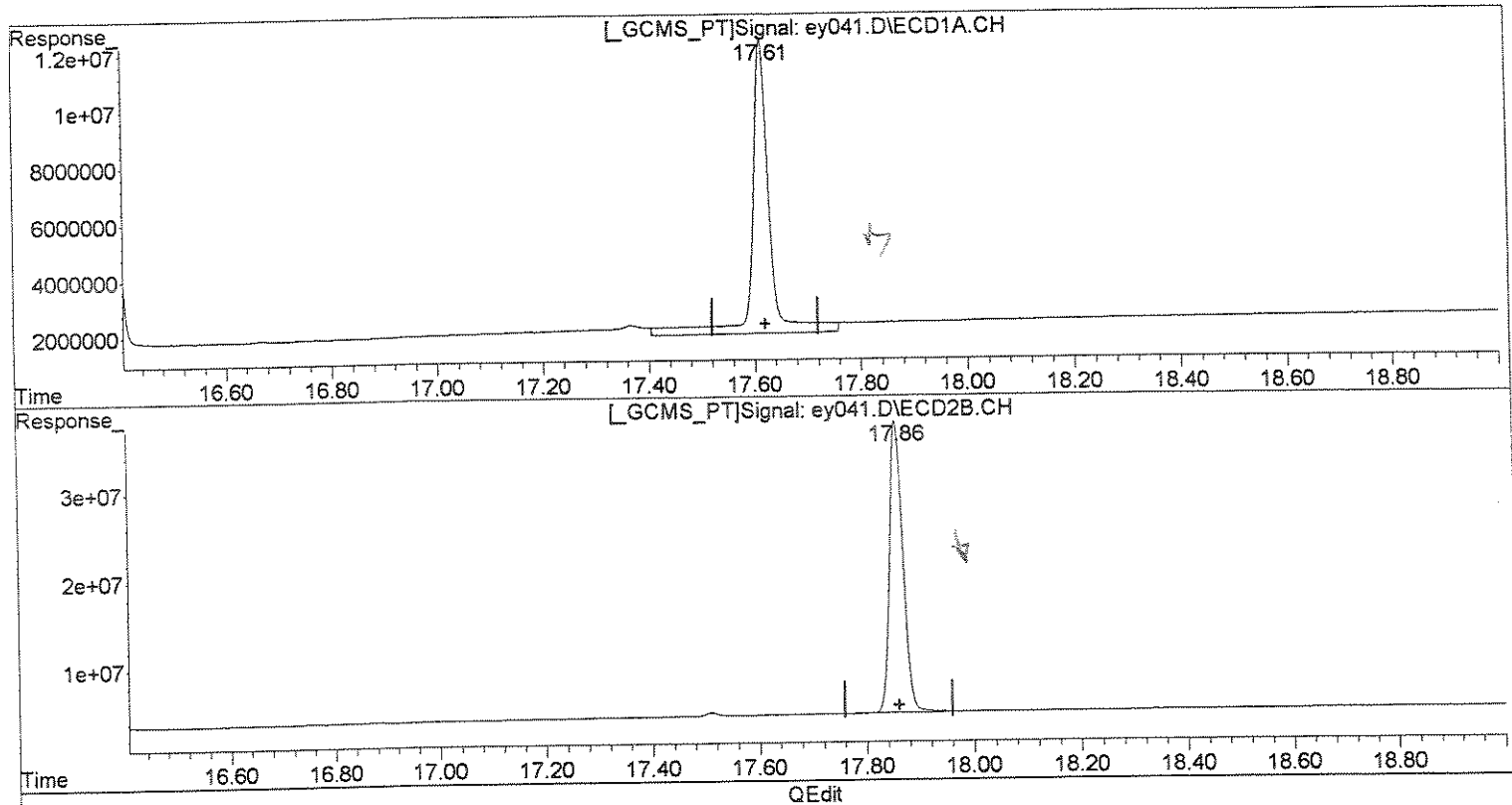
MLA
7/14

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 13.991ug/l
response 239397924

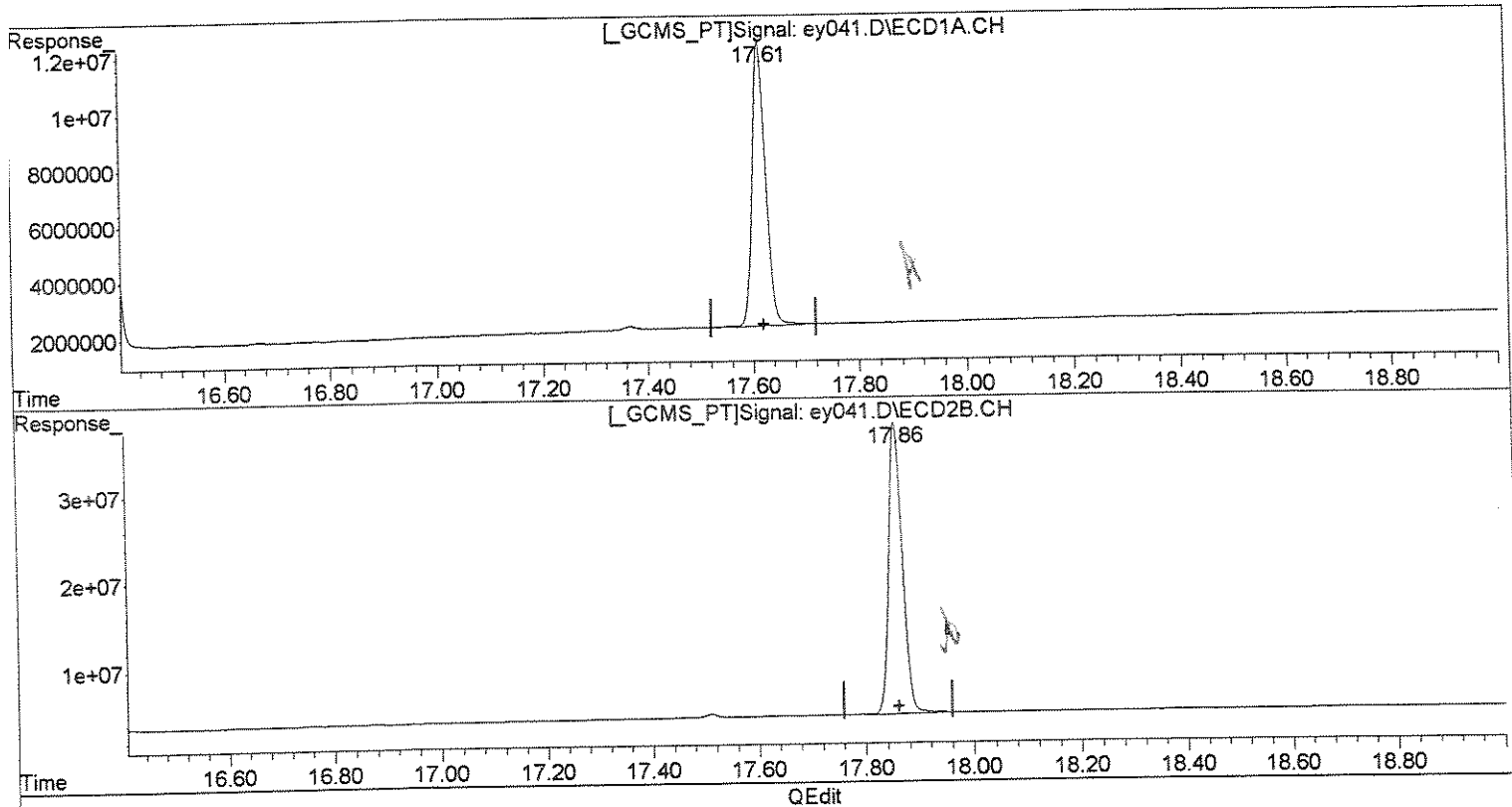
(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 13.256ug/l
response 571352336

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) SURRE2,Decachlorobiphenyl (S)
17.61min 10.382ug/l m
response 177648594

(25) SURRE2,Decachlorobiphenyl #2 (S)
17.86min 13.294ug/l m
response 573007738

M.P.
7/11

M.P.
7/11

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/1	ug/1

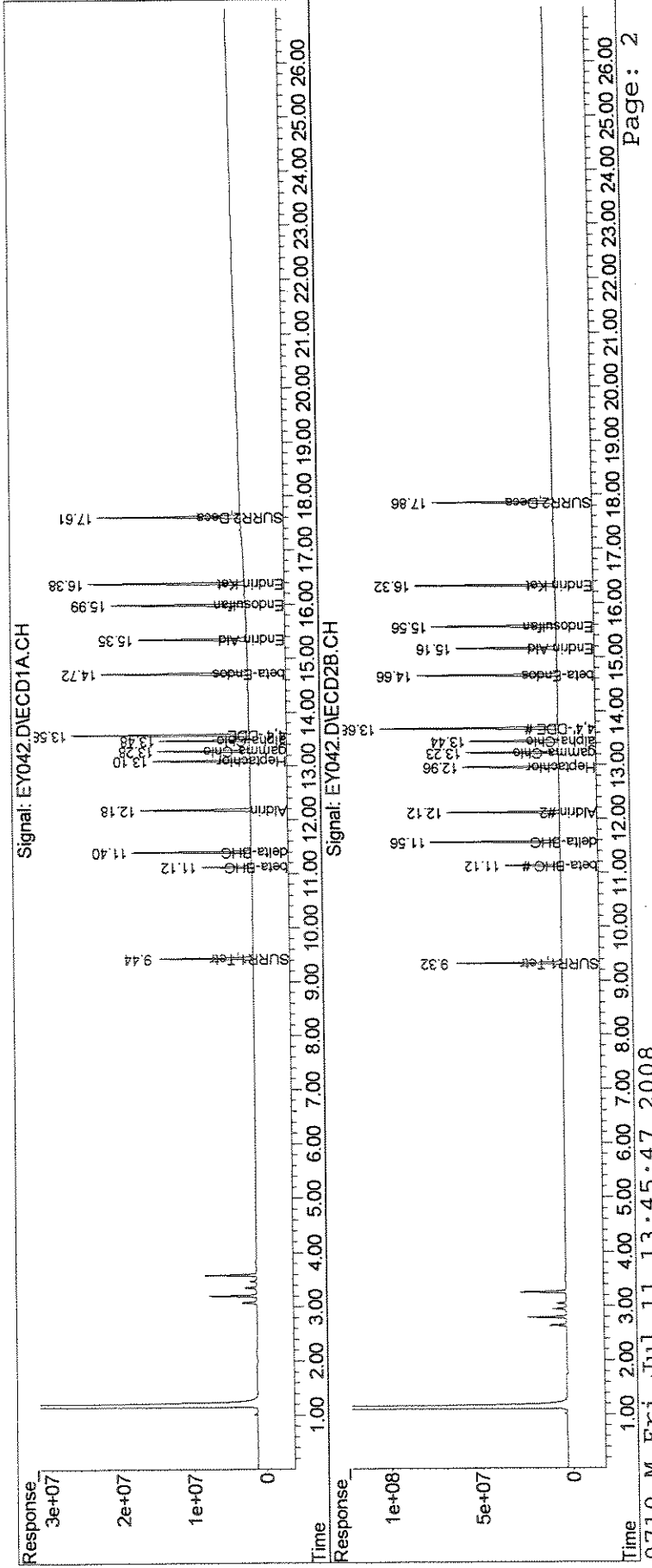
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	204.9E6	860.1E6	11.107	14.634 #
Spiked Amount	100.000	Range	30 - 150	Recovery =	11.11%#	14.63%#
5) S SURR2,Decachloro	17.61	17.86	354.6E6	1152.4E6	20.724m	26.736m#
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.72%#	26.74%#
Target Compounds						
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 #
1) tc gamma-Chlord	13.28	13.23	214.3E6	826.6E6	10.130	13.066 #
2) tc alpha-Chlord	13.48	13.44	211.6E6	785.7E6	10.285	12.781 #
3) tc 4,4'-DDE	13.58	13.68	430.5E6	1575.5E6	21.259	26.788 #
7) tc beta-Endosul	14.72	14.66	370.5E6	1320.4E6	20.345	26.258 #
0) tc Endrin Aldeh	15.35	15.16	288.5E6	999.6E6	20.307	26.505 #
1) tc Endosulfan S	15.99	15.57	329.5E6	1161.9E6	19.643	26.384 #
4) 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.

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



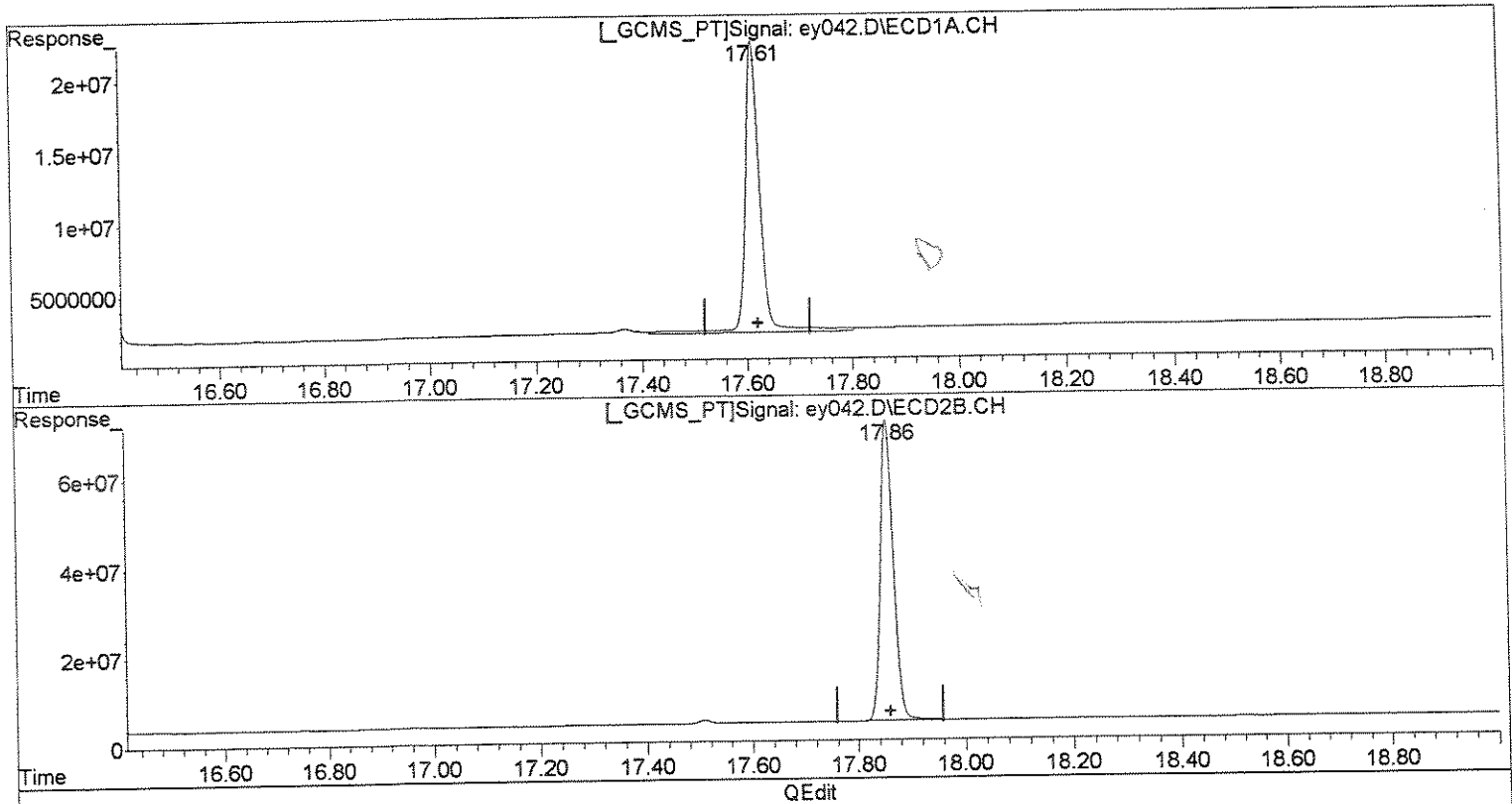
6890D

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



(25) SURR2,Decachlorobiphenyl (S)
17.61min 23.226ug/l
response 397418479

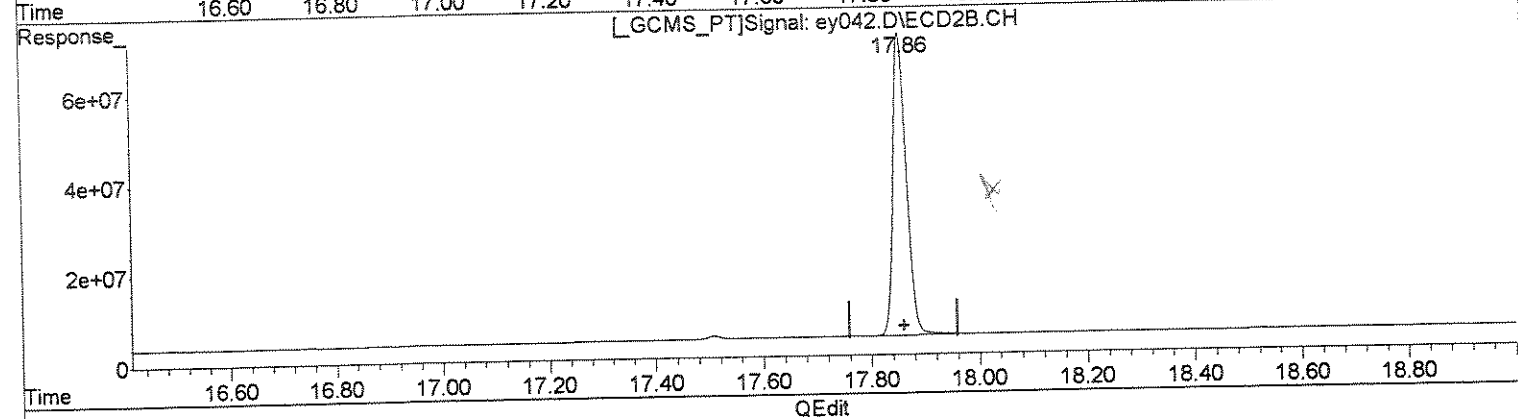
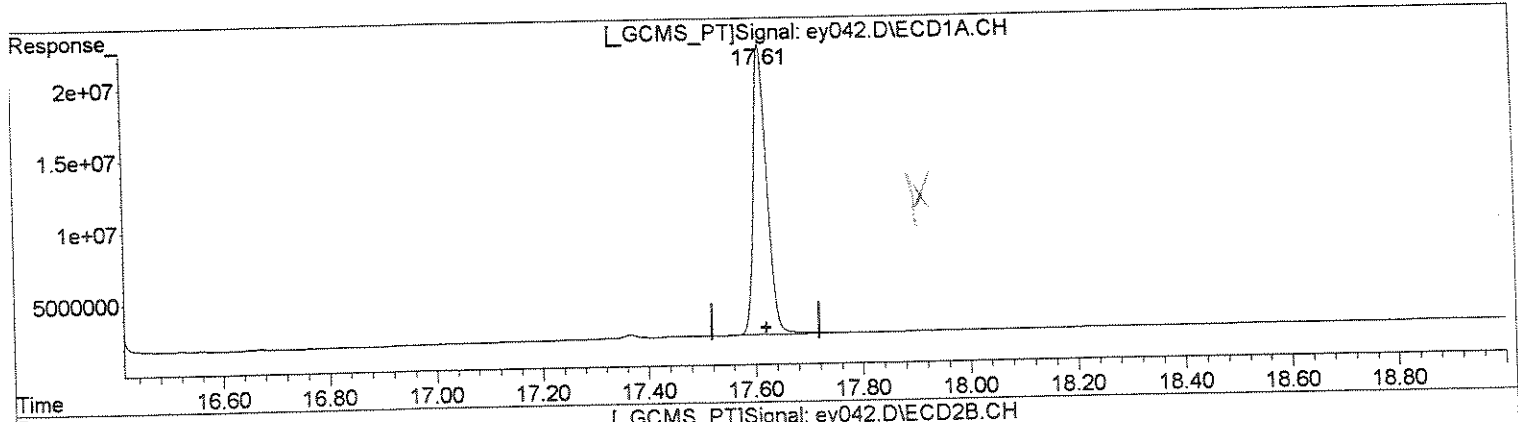
(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 26.580ug/l
response 1145666598

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



(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

MSW 7/11

MSW 7/11

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/1	ug/1
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%#
5) 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% <i>MS</i>
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.

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

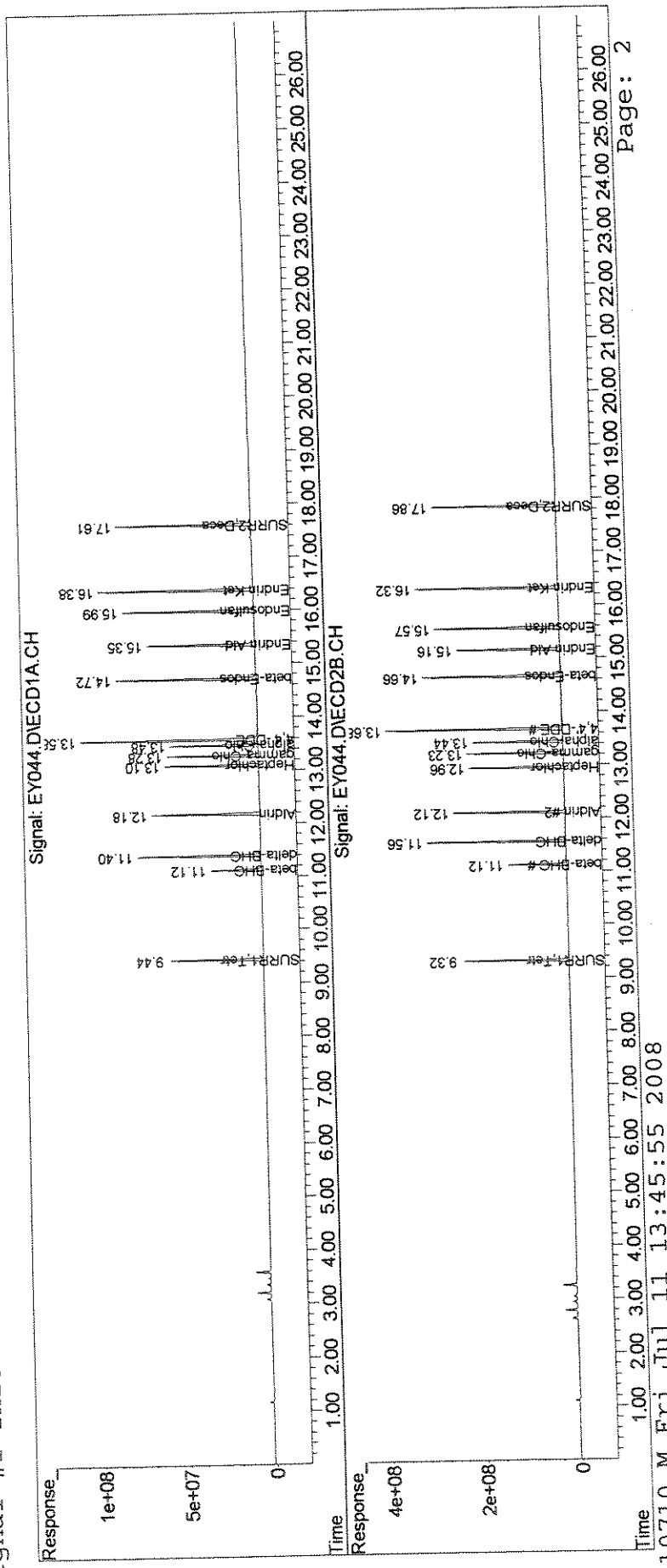
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	833.9E6	3284.1E6	45.193	55.874
Spiked Amount	100.000	Range	30 - 150	Recovery =	45.19%	55.87%
5) S SURR2,Decachloro	17.61	17.86	1393.3E6	4433.6E6	81.430	102.861 #
Spiked Amount	100.000	Range	30 - 150	Recovery =	81.43%	102.86%
Target Compounds						
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
1) tc gamma-Chlord	13.28	13.23	896.8E6	3288.5E6	42.403	51.979
2) tc alpha-Chlord	13.48	13.44	870.6E6	3113.2E6	42.324	50.639
3) tc 4,4'-DDE	13.58	13.68	1800.8E6	6137.1E6	88.920	104.350
7) tc beta-Endosul	14.72	14.66	1520.3E6	5065.0E6	83.475	100.727
10) tc Endrin Aldeh	15.35	15.16	1192.6E6	3889.3E6	83.950	103.129
11) tc Endosulfan S	15.99	15.57	1370.5E6	4558.8E6	81.704	103.521 #
14) 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.

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



80814

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/1	ug/1
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:\ACQUADATA\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:\ACQUADATA\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
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System Monitoring Compounds

Target Compounds

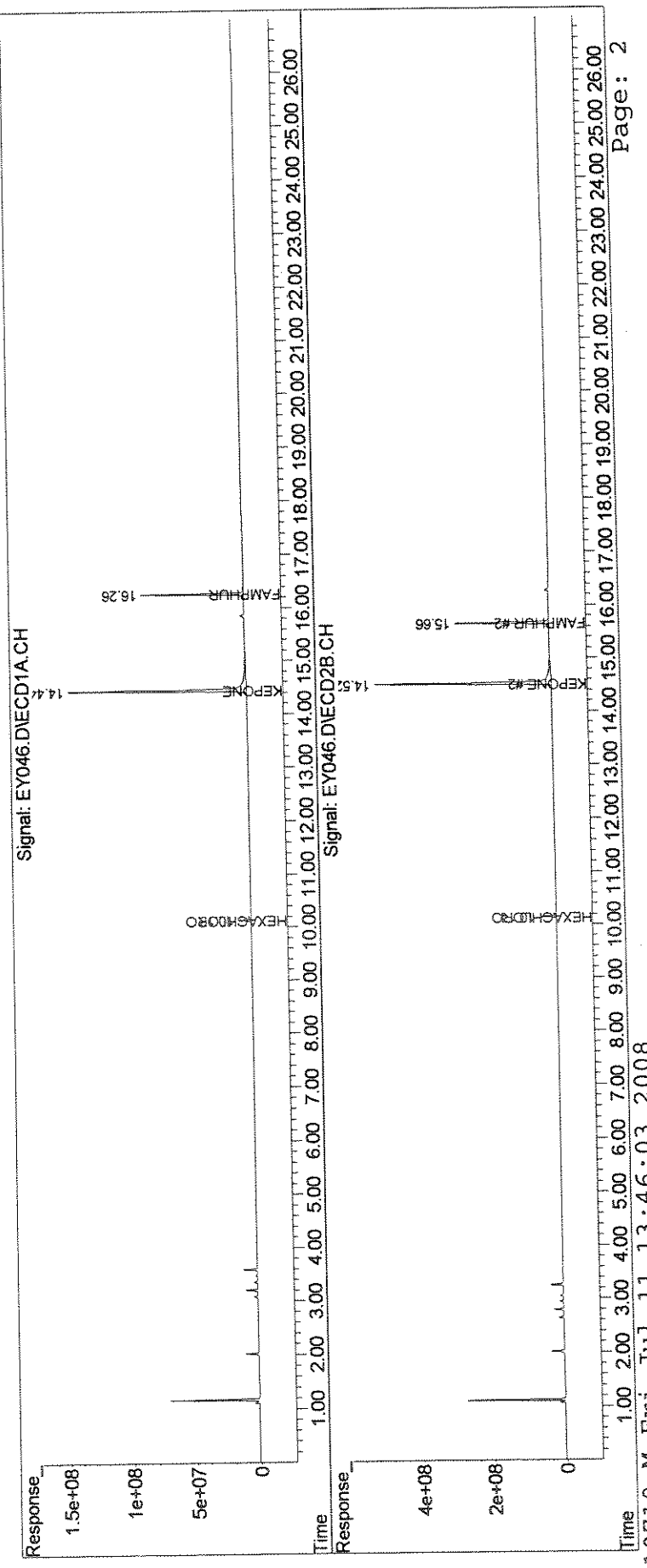
2) TC	HEXACHLOROBENZEN	10.13	10.14	162.9E6	736.6E6	5.742	7.892 #
6) tc	KEPONE	14.44	14.52	3473.6E6	11045.7E6	519.980	675.983 #
3) tc	FAMPHUR	16.26	15.66	1381.9E6	4443.2E6	108.103	151.268m#
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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



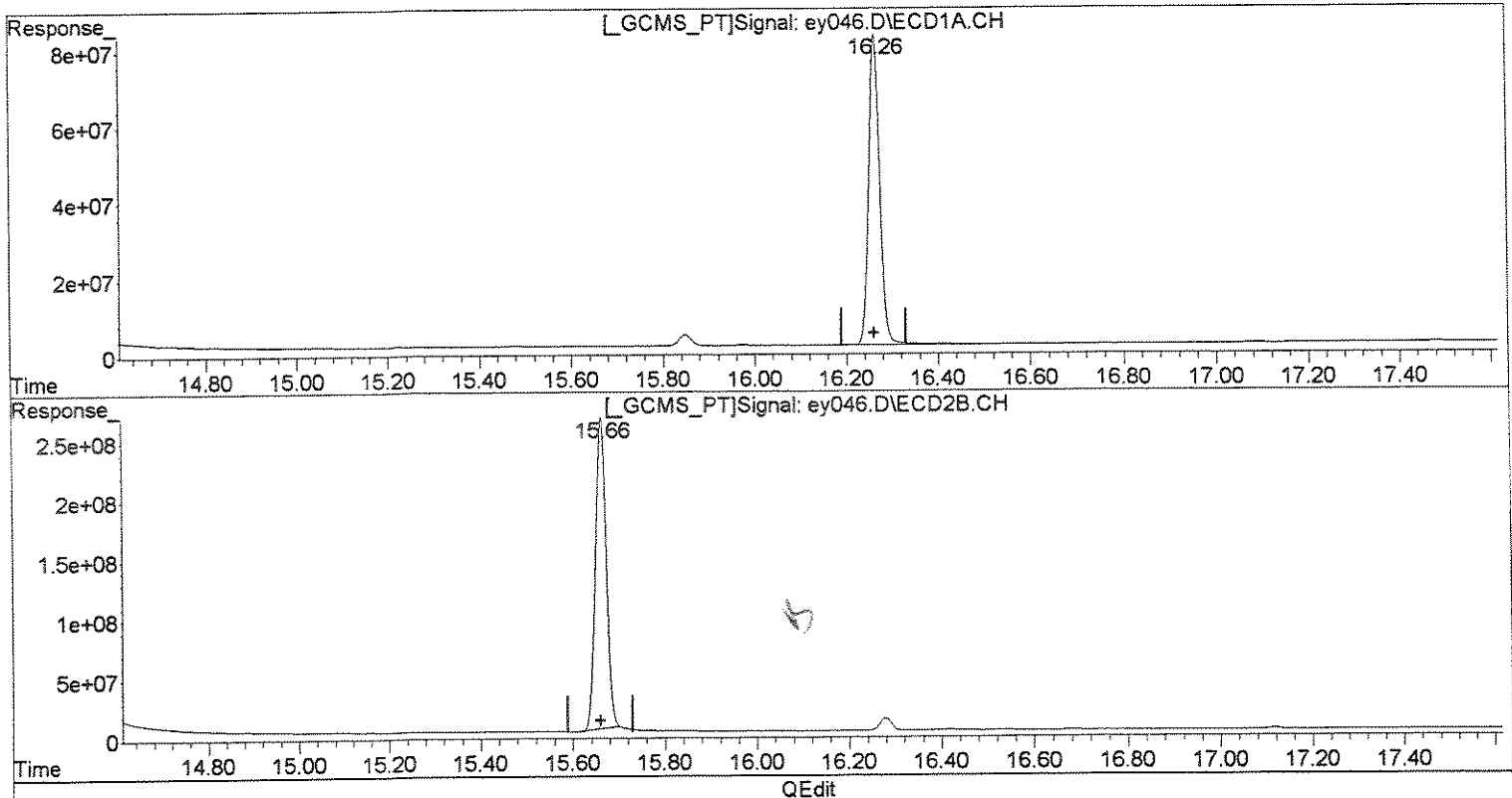
8081A

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

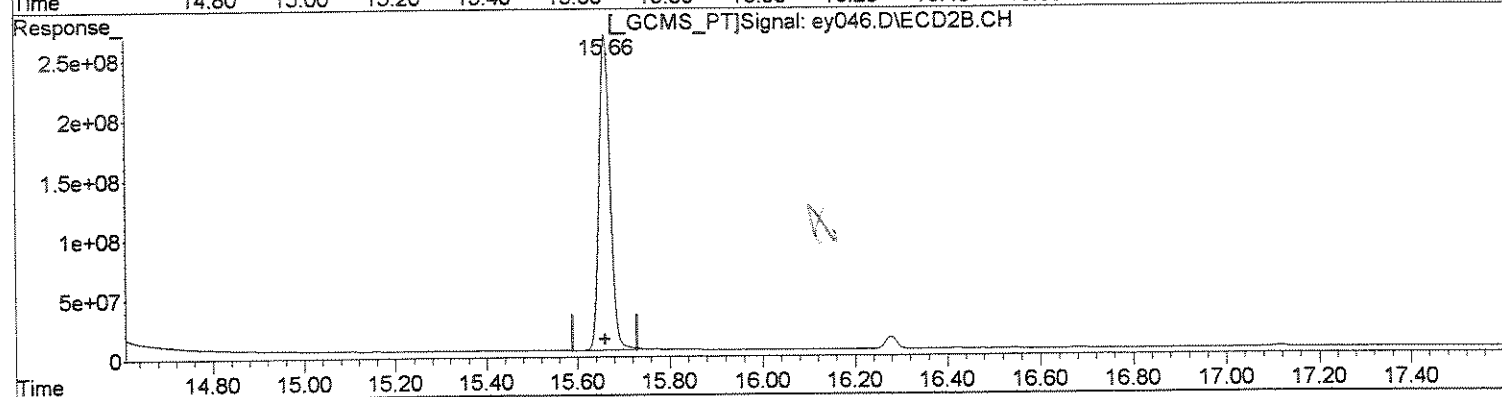
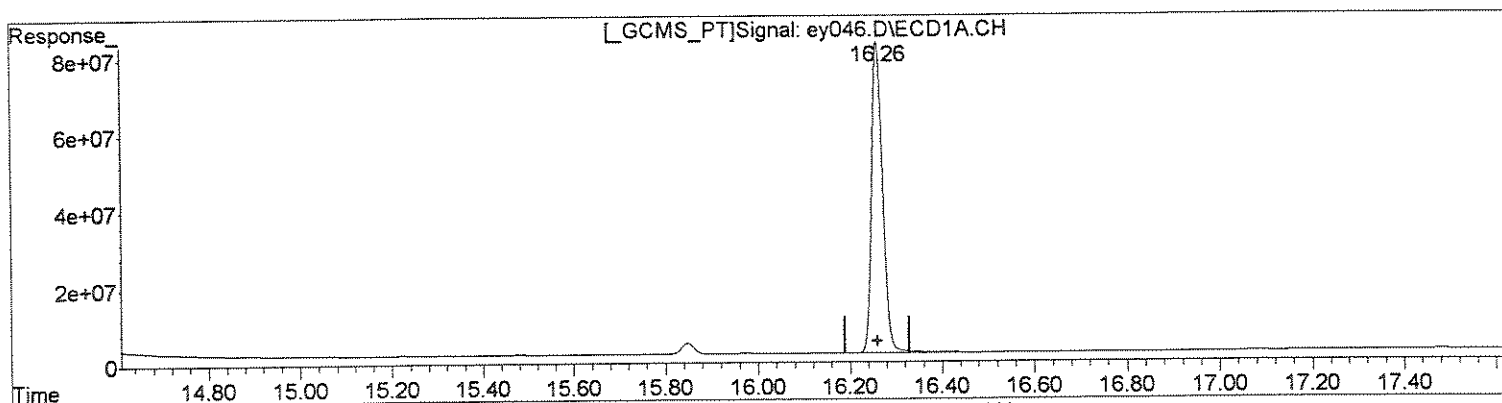
Blank

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

MW
7/11

MW
7/11

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/1	ug/1
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System Monitoring Compounds

Target Compounds

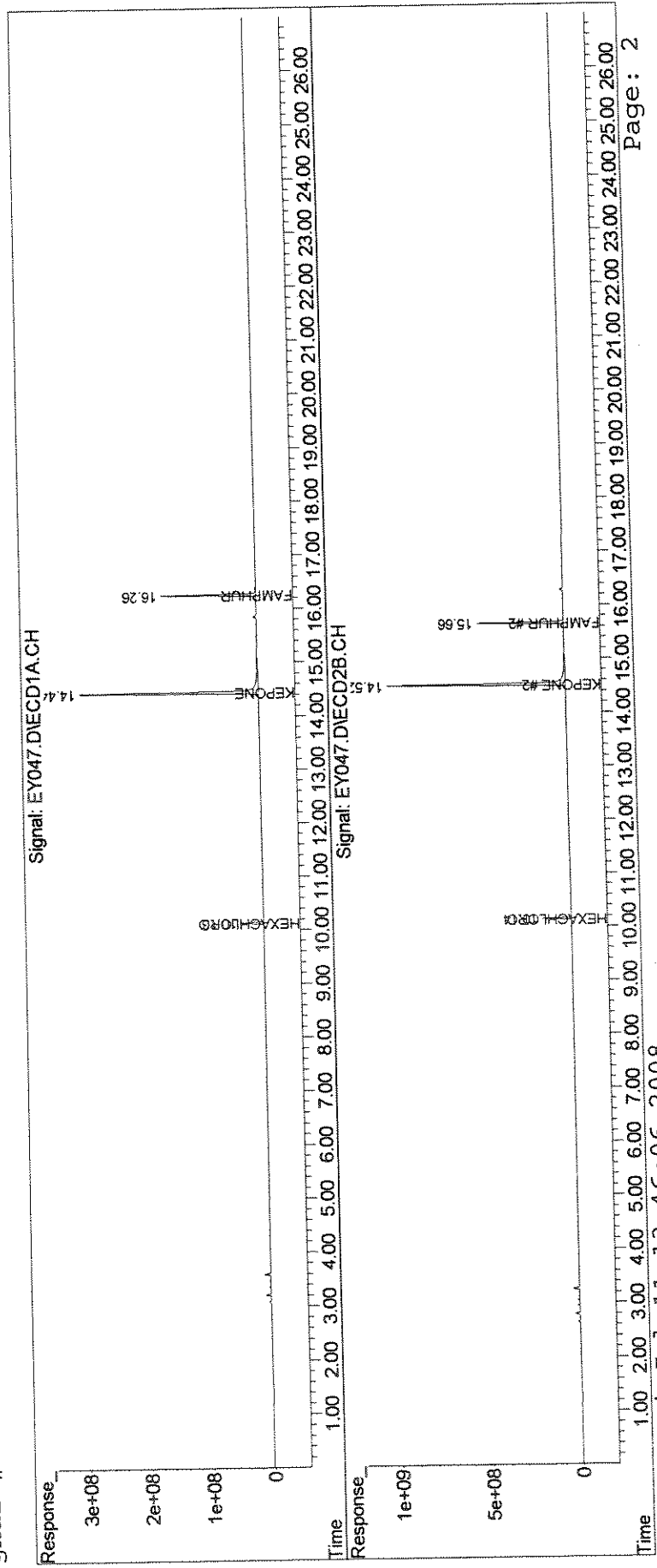
2) TC	HEXACHLOROBENZEN	10.13	10.14	593.6E6	2493.3E6	20.921	26.715 #
16) tc	KEPONE	14.44	14.52	7073.0E6	22302.5E6	1058.804	1364.882 #
23) tc	FAMPHUR	16.26	15.66	2607.6E6	8060.3E6	203.978	274.408m#
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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



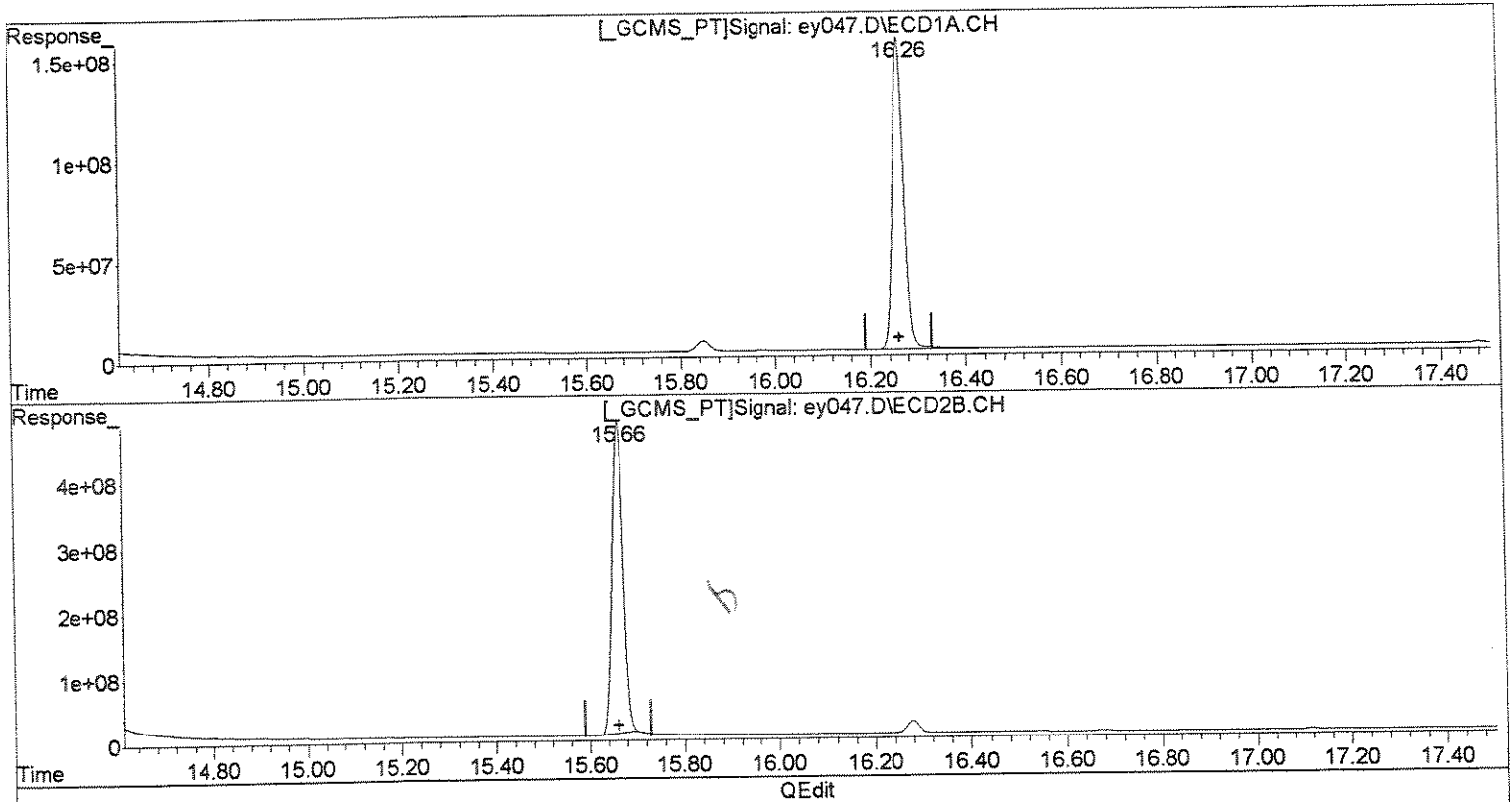
80822

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

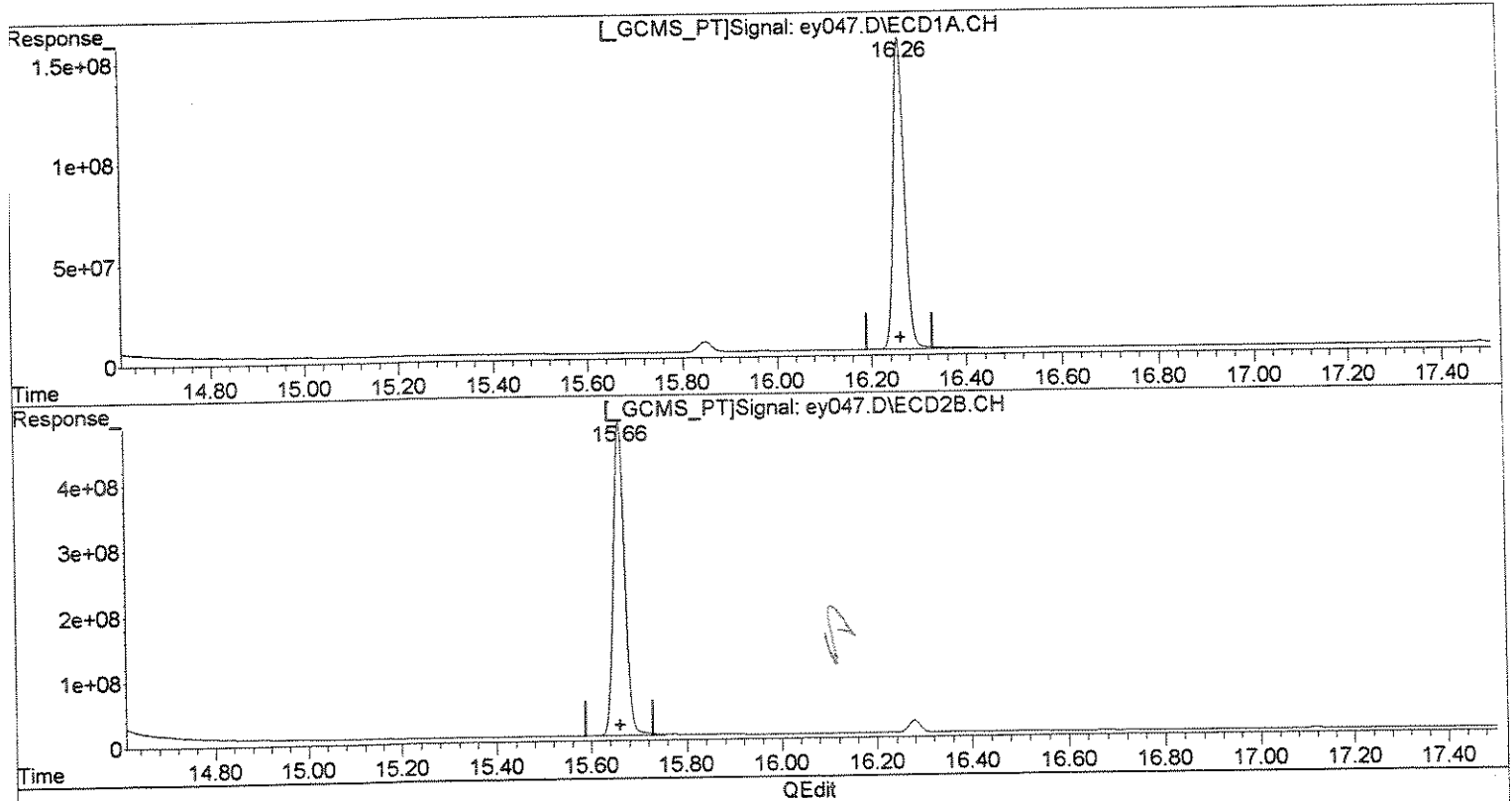
bish

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 274.408ug/l m
response 8060279415

Handwritten signatures and initials:
M.P. 7/11
M.P. 7/11

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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System Monitoring Compounds

Target Compounds

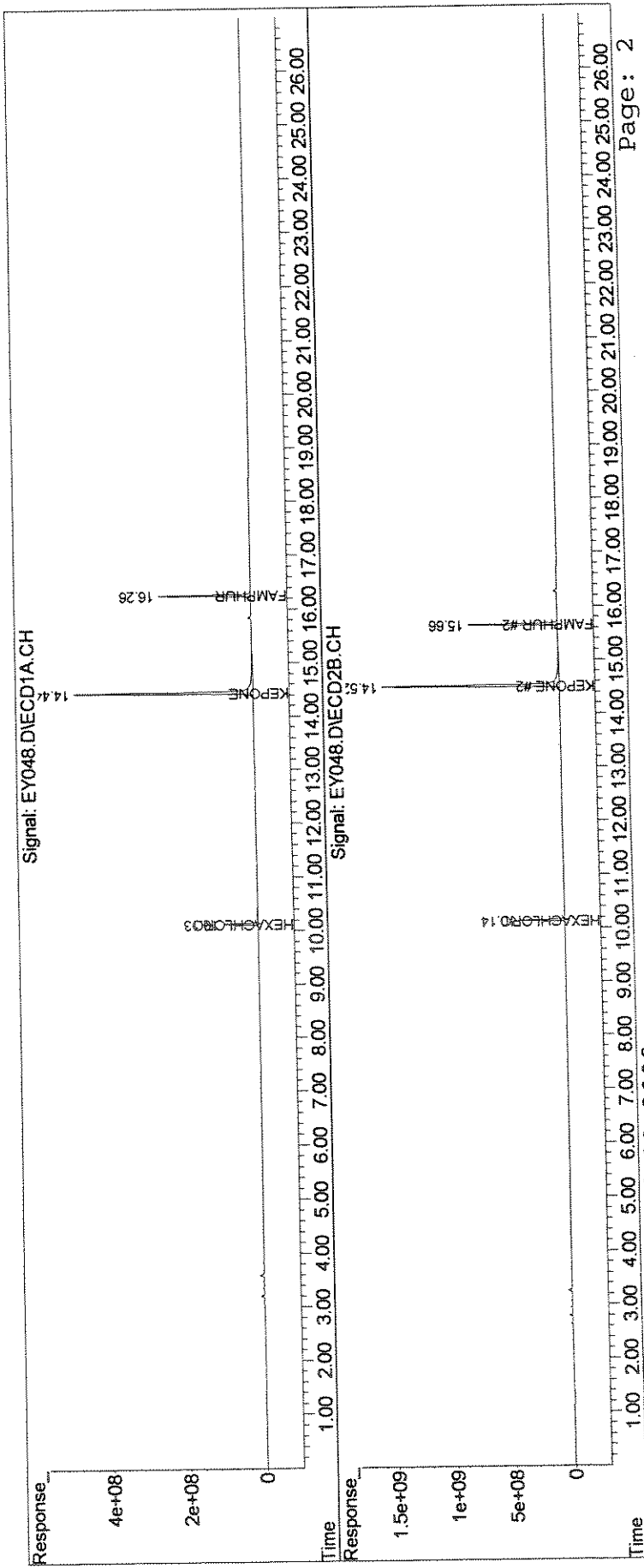
2) TC	HEXACHLOROBENZEN	10.13	10.14	1431.2E6	5821.2E6	50.439	62.371
6) tc	KEPONE	14.44	14.52	11799.2E6	35925.9E6	1766.294	2198.620
3) tc	FAMPHUR	16.26	15.66	4144.4E6	12629.1E6	324.195	429.952m#
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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



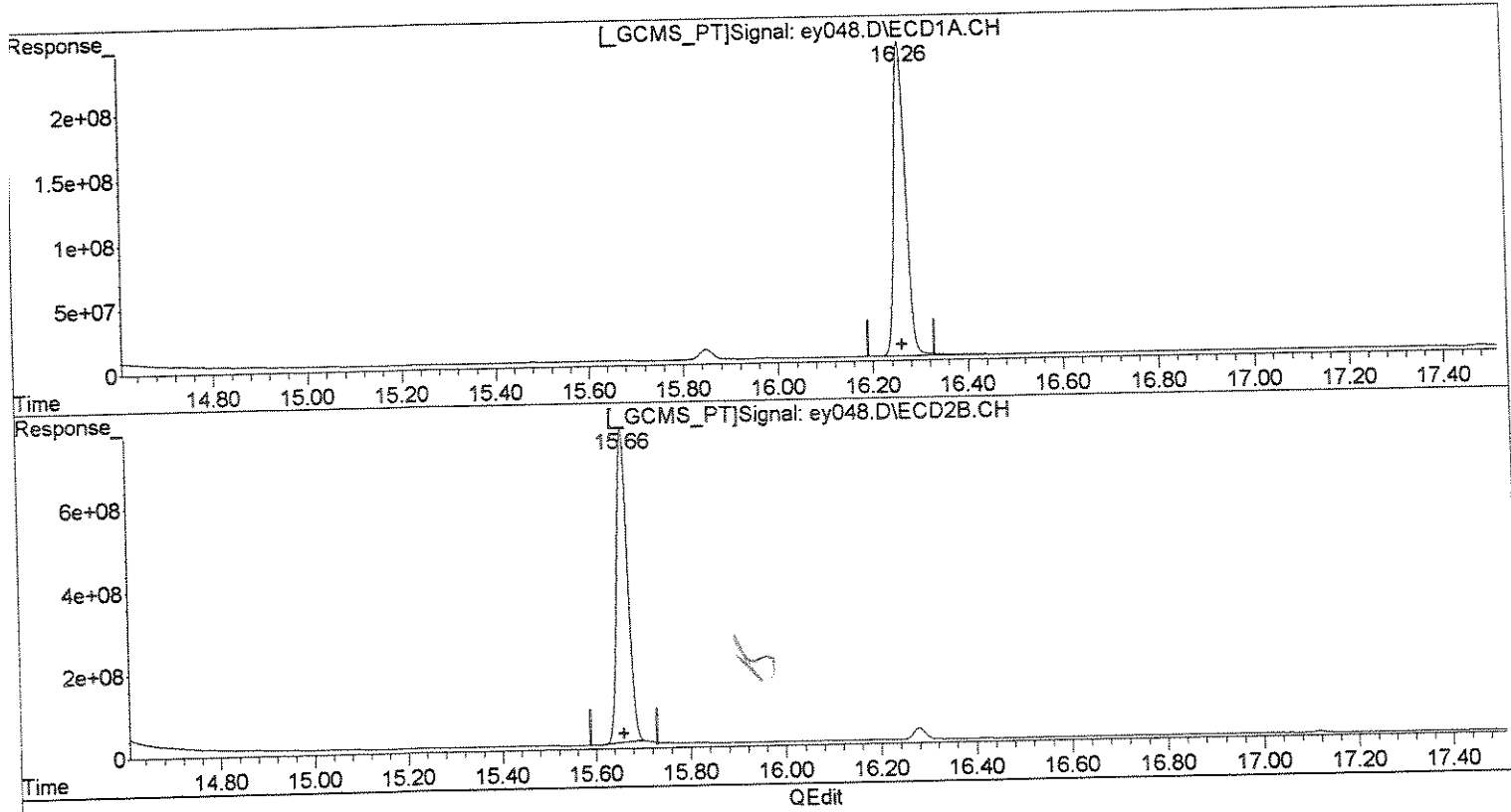
00826

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

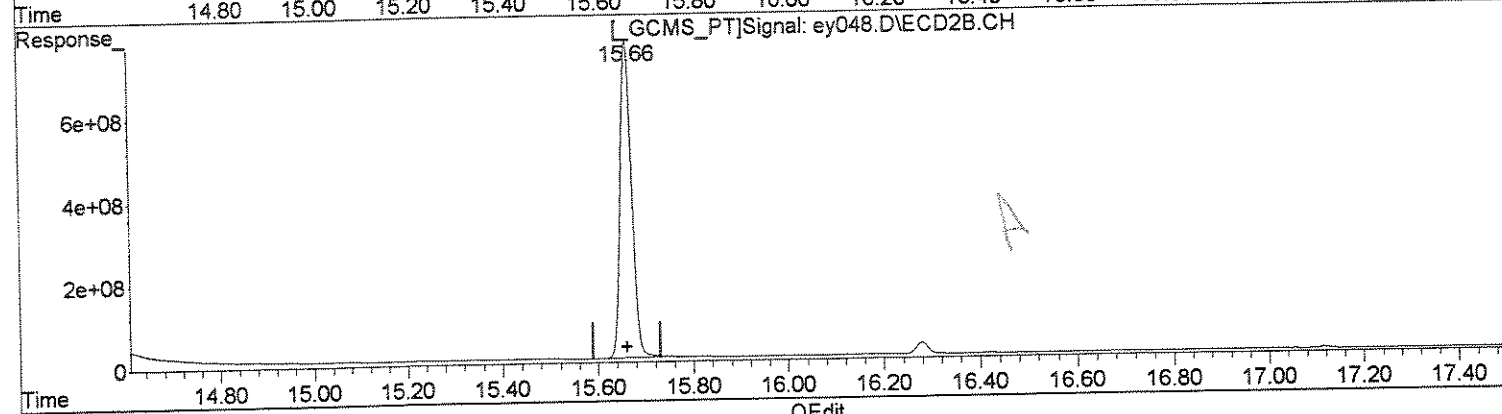
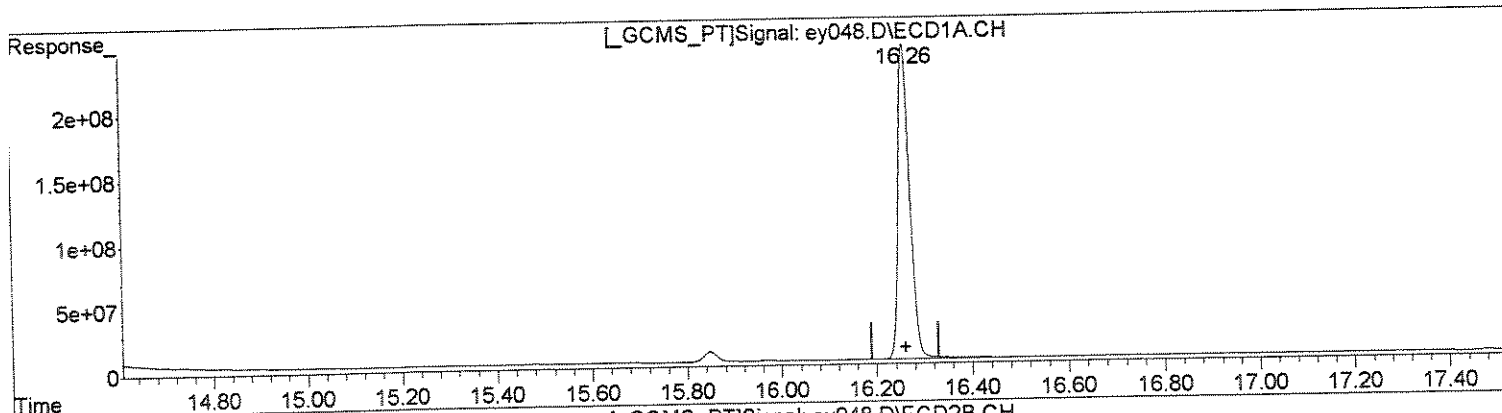
(23) FAMPHUR #2 (tc)
15.66min 419.250ug/l
response 12314769808

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 #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
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

MLP
7/11

MLP
7/11

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

MW 7/11

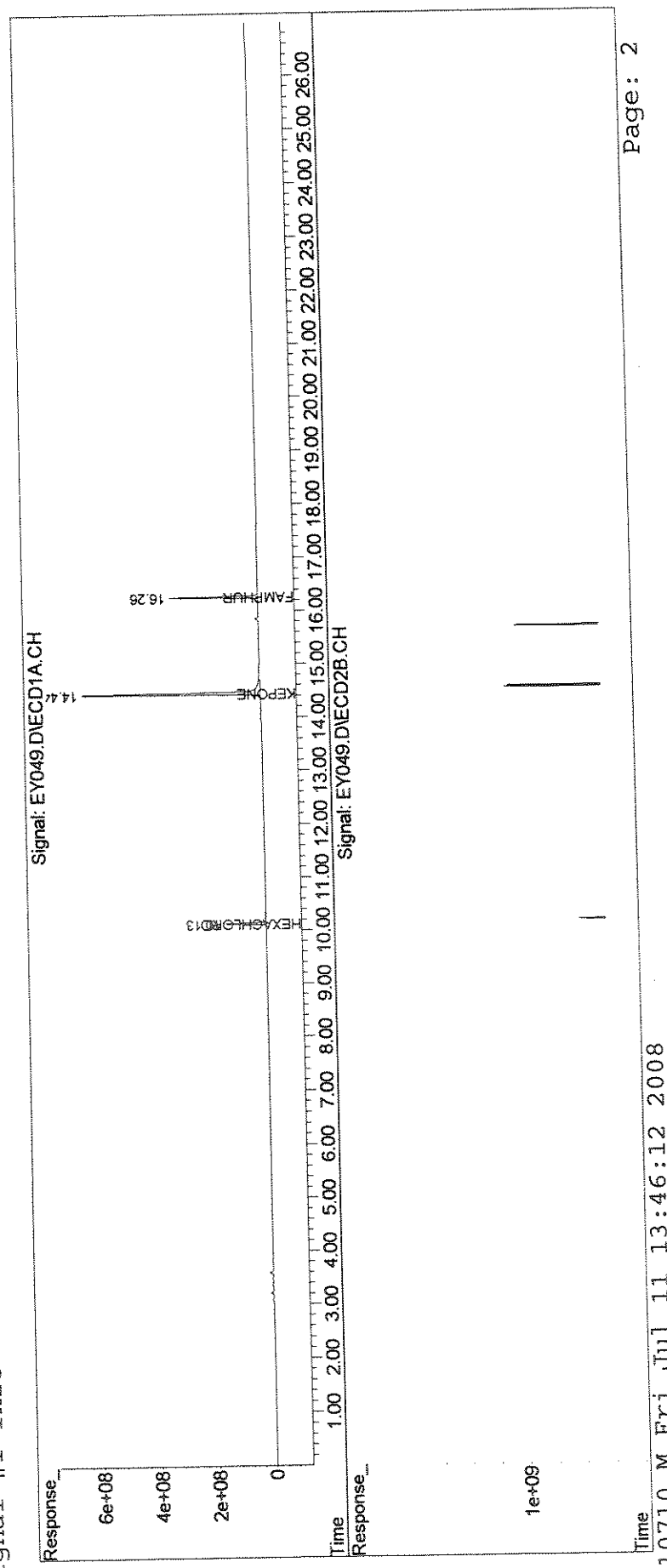
Target Compounds		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
2) TC	HEXACHLOROBENZEN	10.13	10.14	2229.2E6	8817.5E6	78.559	94.475
.6) tc	KEPONE	14.45	14.52	14895.0E6	48142.9E6	2229.728	2946.282 #
23) tc	FAMPHUR	16.26	15.66	5397.9E6	16350.4E6	422.254	556.643m#
Sum Toxaphene				0	0	N.D.	N.D.
Average Toxaphene						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.

Data Path : J:\ACQDATA\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:\ACQDATA\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



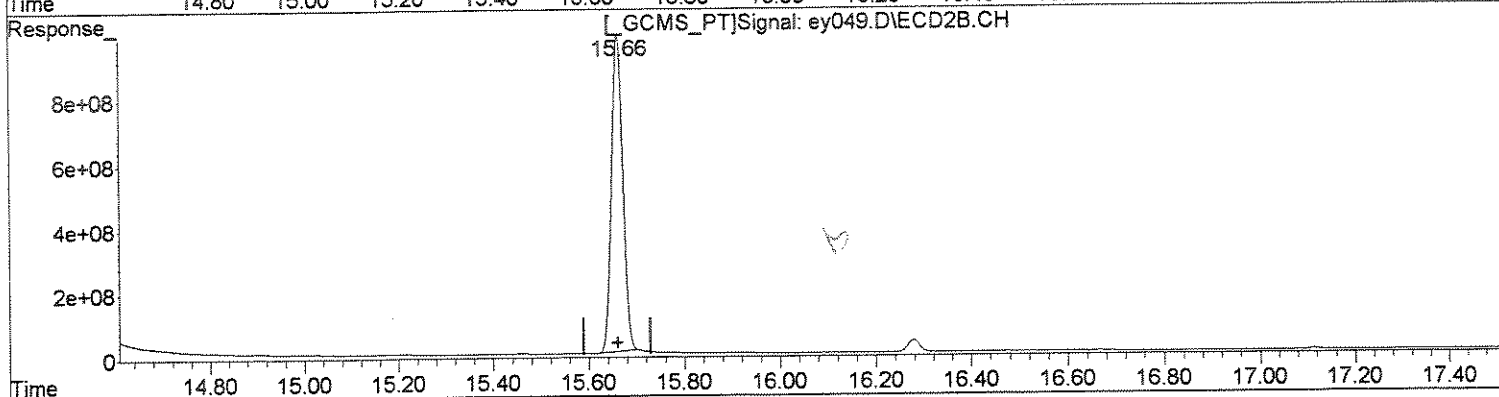
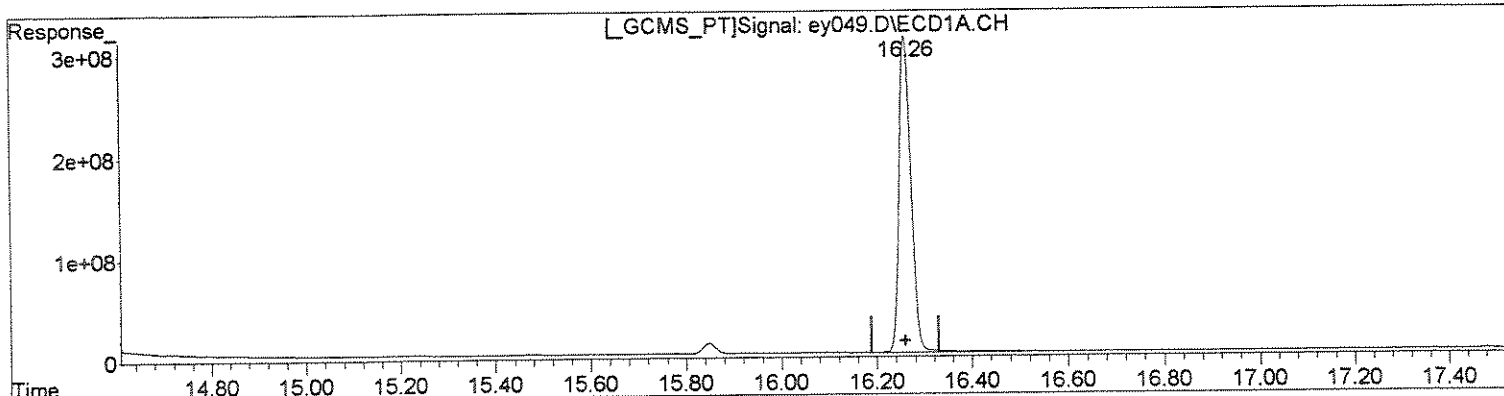
000000

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

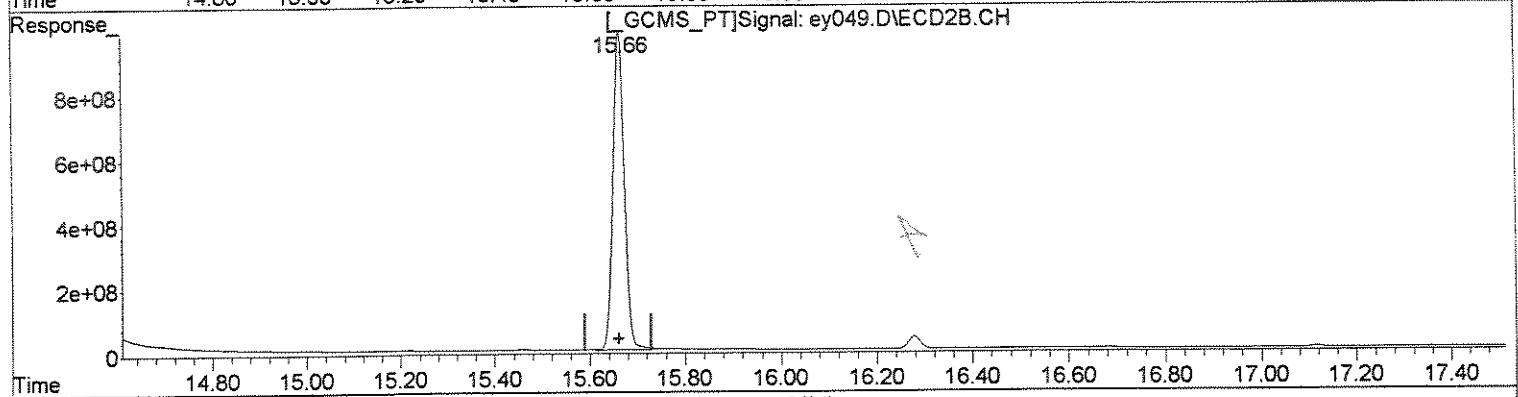
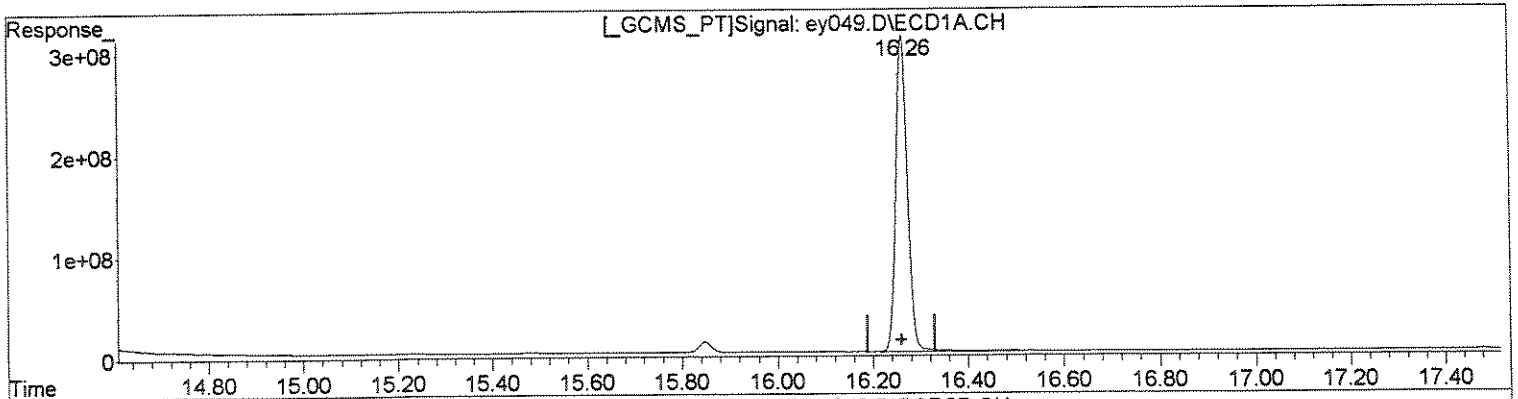
Handwritten signature

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 556.643ug/l m
response 16350447651

M.P.
7/11
M.P.
7/11

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
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System Monitoring Compounds

Target Compounds

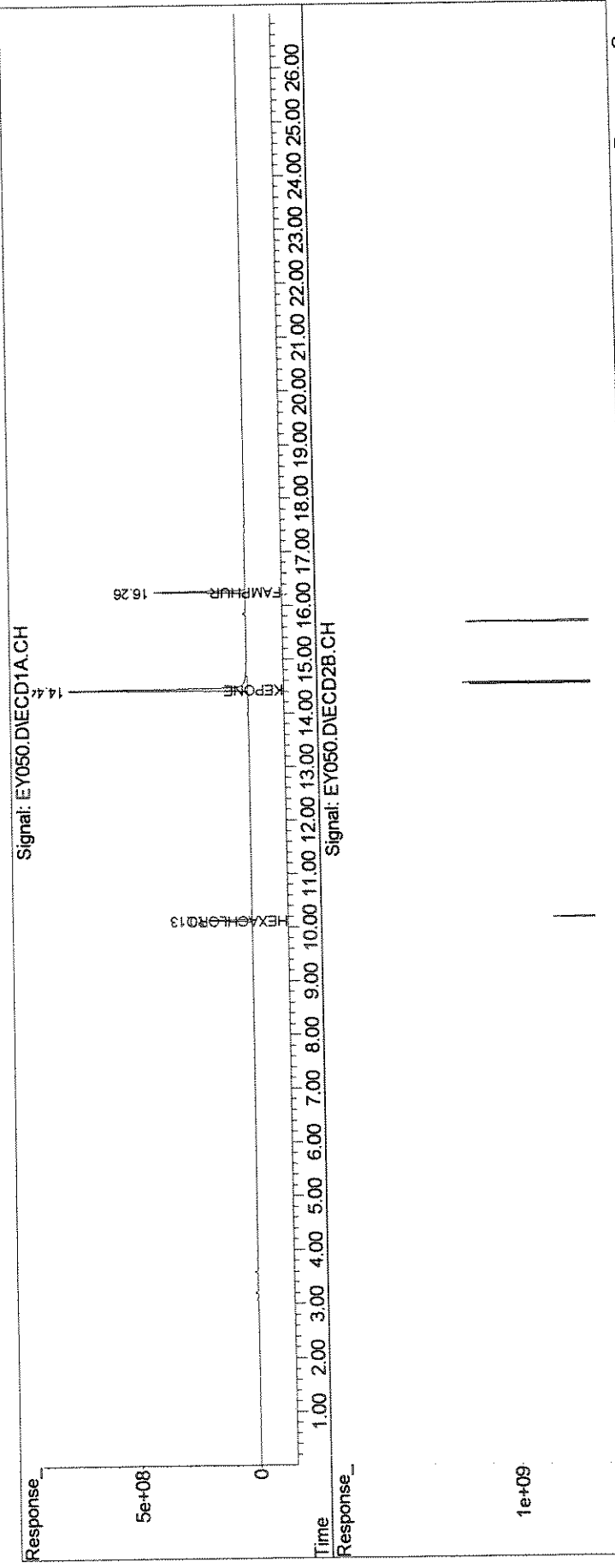
2) TC	HEXACHLOROBENZEN	10.13	10.14	2817.4E6	10905.2E6	99.289	116.843
.6) tc	KEPONE	14.45	14.52	18112.3E6	56388.9E6	2711.335	3450.931 #
3) tc	FAMPHUR	16.26	15.66	6837.9E6	20604.6E6	534.897	701.472m#
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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



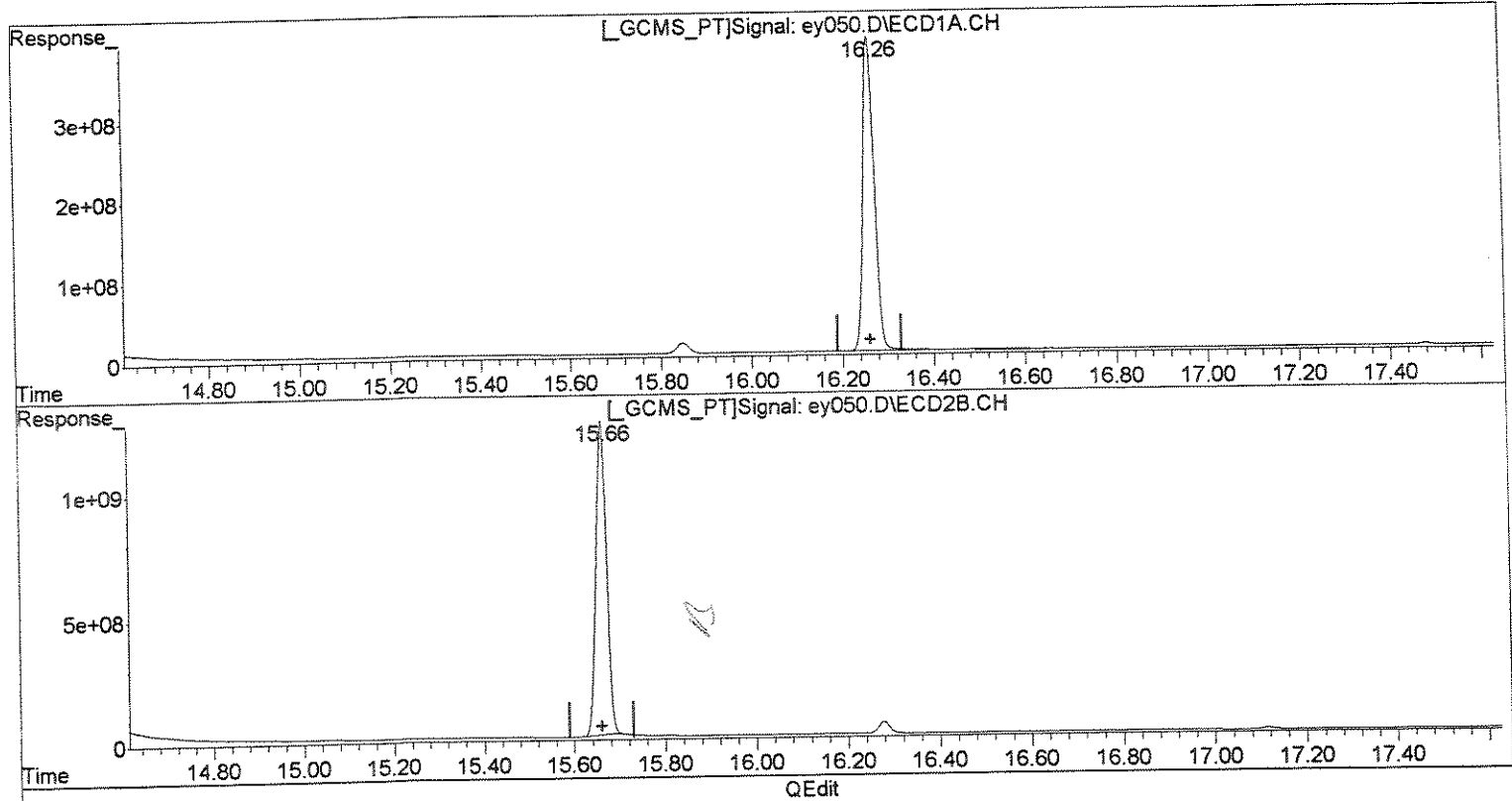
00834

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

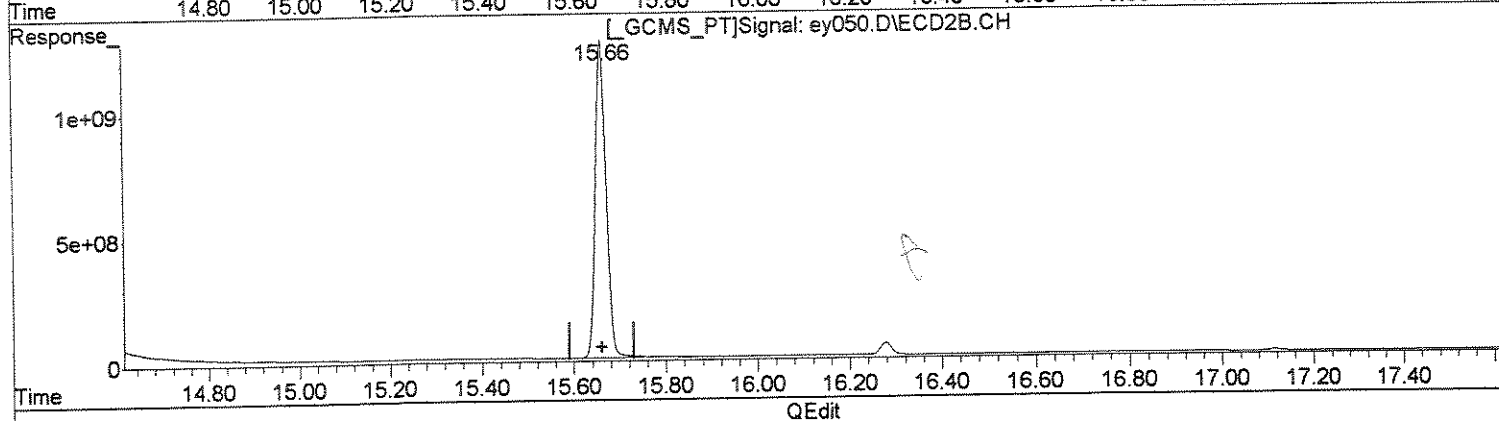
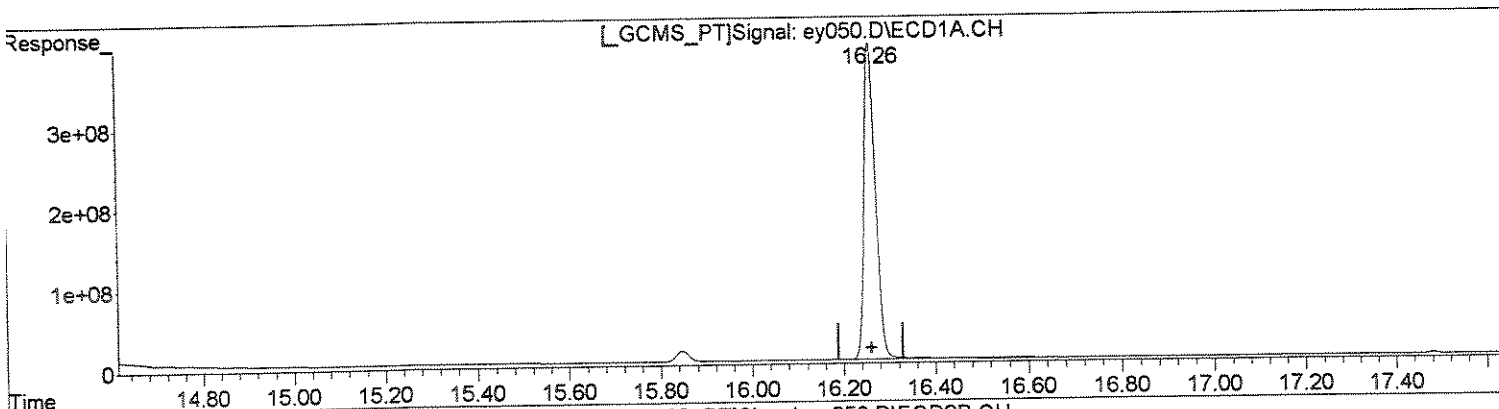
Handwritten signature

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 701.472ug/l m
response 20604553043

MP
7/11

MP
7/11

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

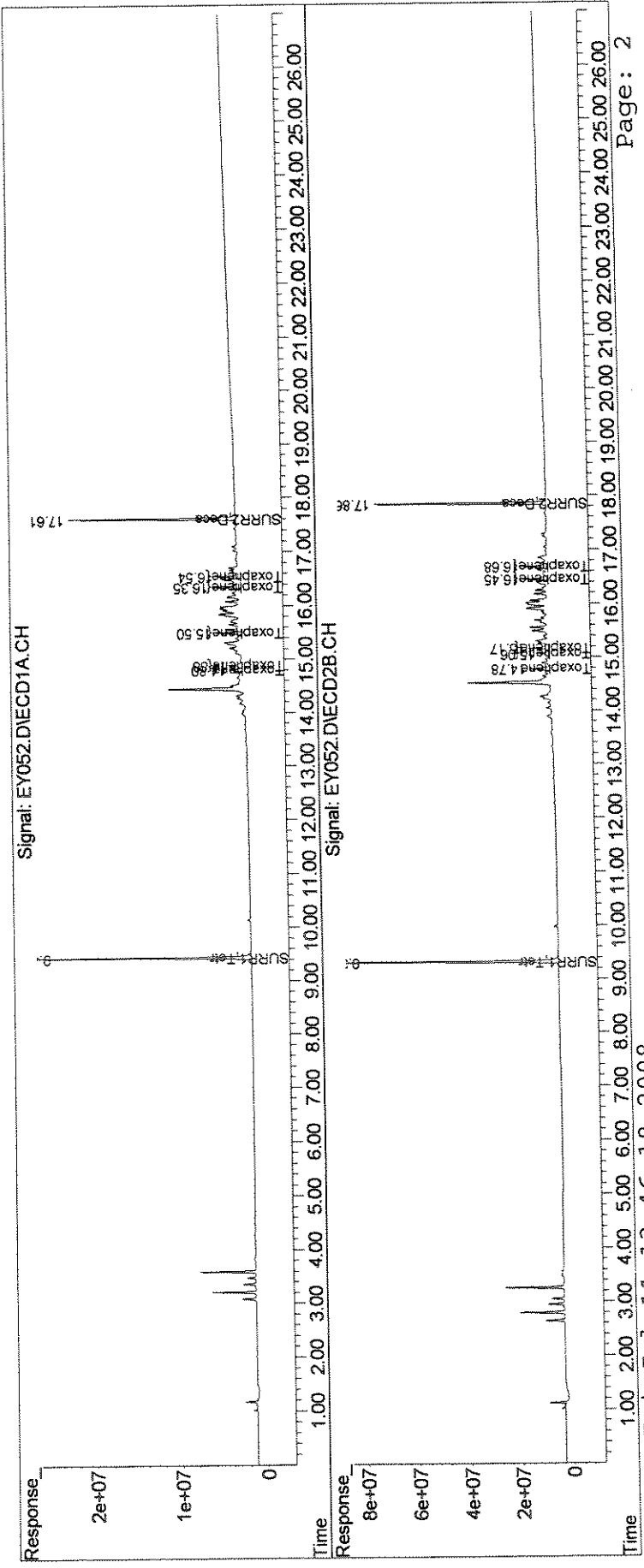
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
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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 l
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



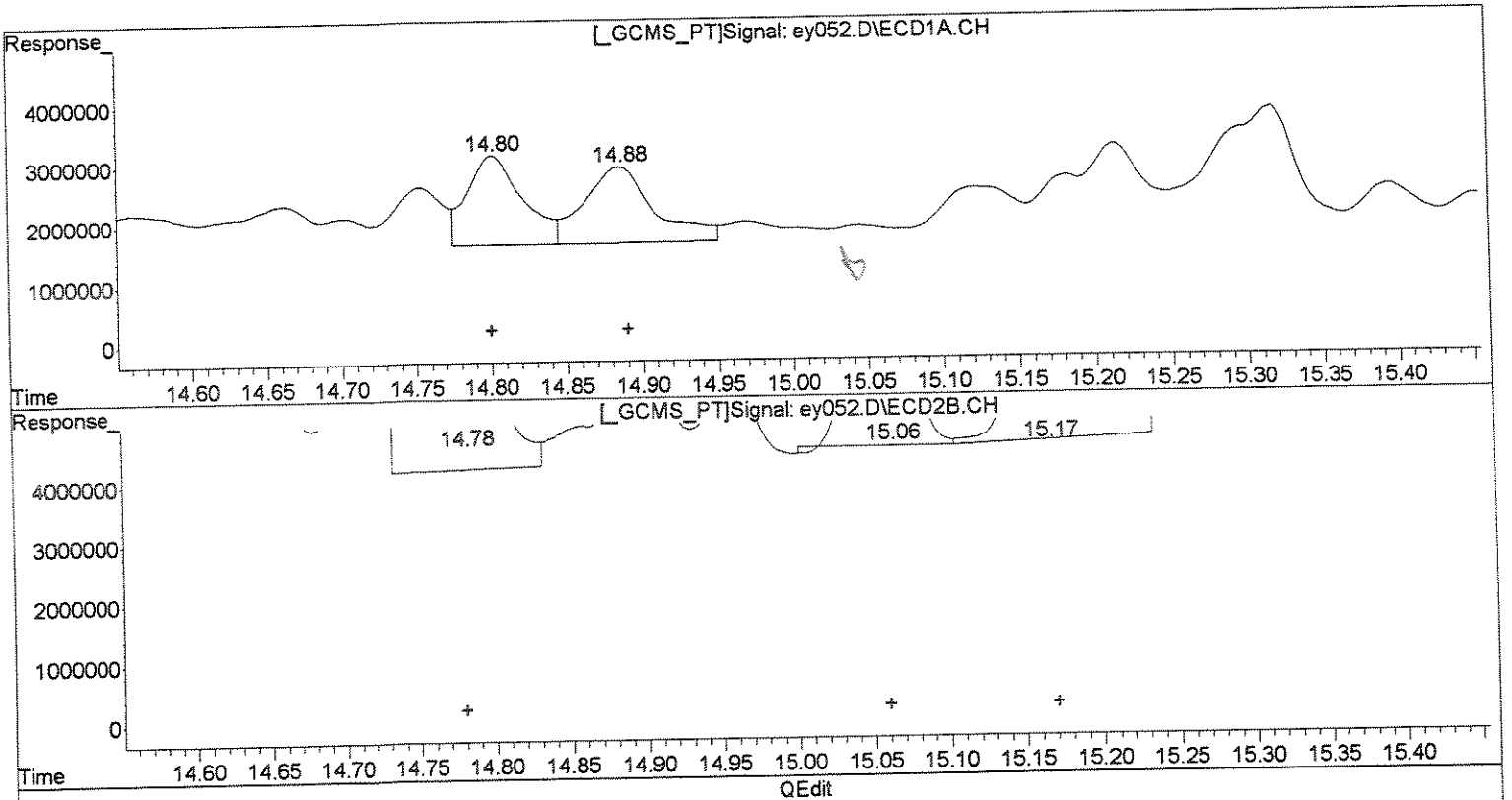
00838

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

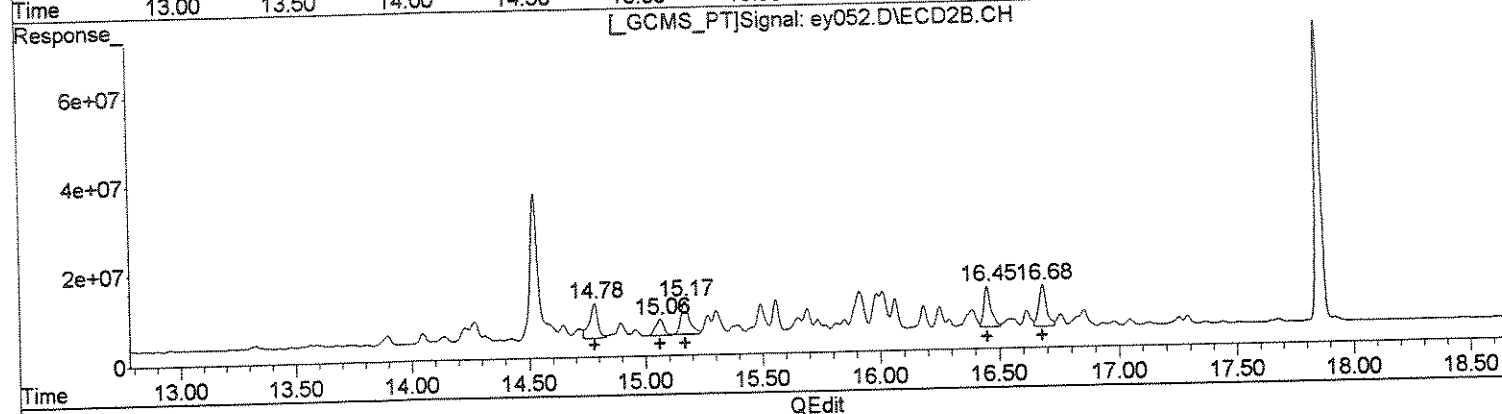
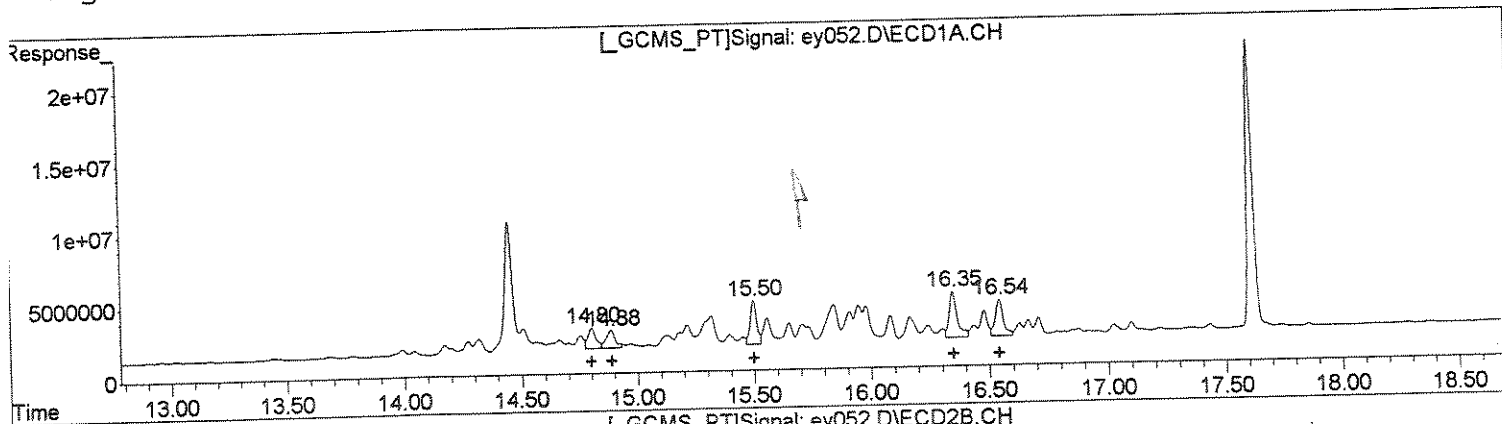
(+) = Expected Retention Time
 80810710.M Fri Jul 11 13:29:26 2008

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 #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

MSP
7/11

MSP
7/11

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 #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

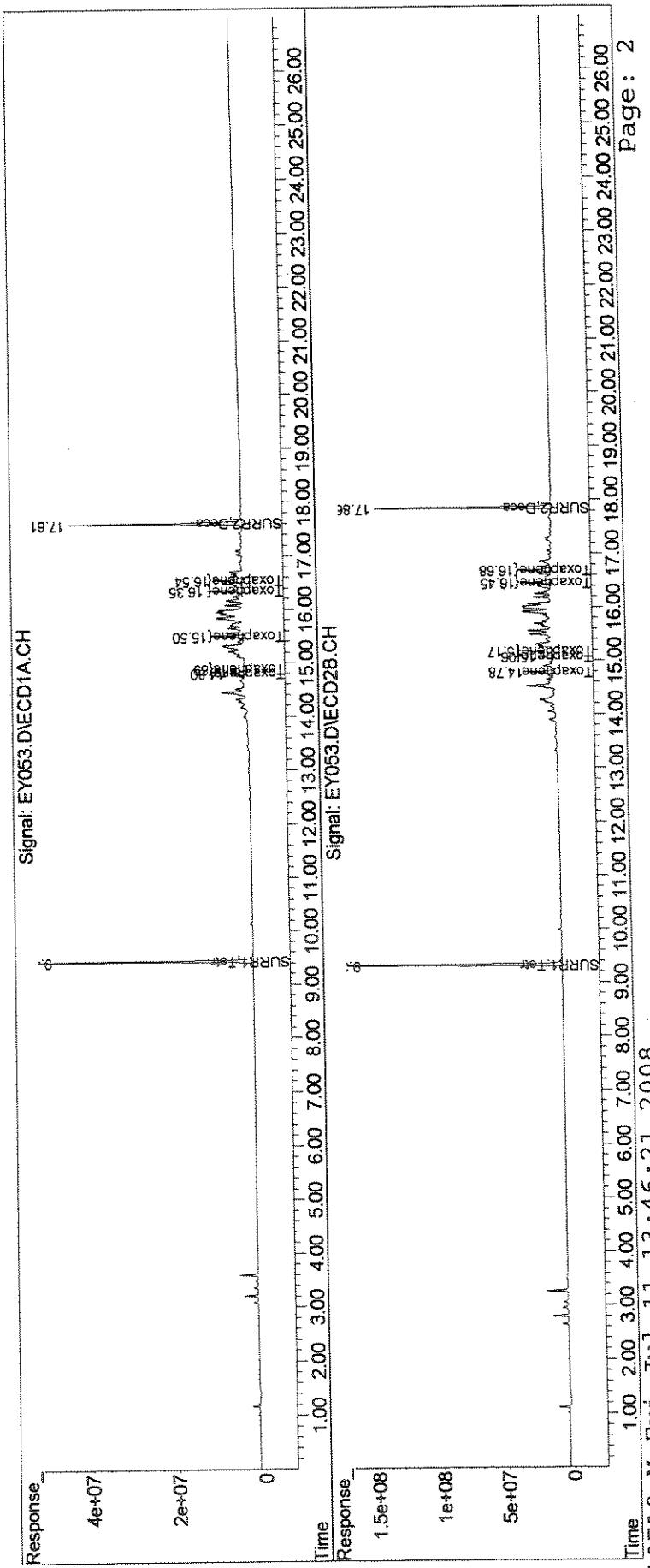
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
System Monitoring Compounds							
1) S SURR1,Tetrac	9.44	9.32	842.3E6	3371.8E6	45.651	57.366	#
Spiked Amount	100.000	Range 30 - 150	Recovery =		45.65%	57.37%	
5) S SURR2,Decachloro	17.61	17.86	721.8E6	2303.7E6	42.185	53.447	#
Spiked Amount	100.000	Range 30 - 150	Recovery =		42.19%	53.45%	
Target Compounds							
6) L8C Toxaphene	14.80	14.78	97648280	476.5E6	226.641	340.867	#
7) L8C Toxaphene {2}	14.89	15.06	94346720	223.9E6	237.592	288.764	
8) L8C Toxaphene {3}	15.50	15.17	163.5E6	462.3E6	240.186	301.235	#
9) L8C Toxaphene {4}	16.35	16.45	200.1E6	474.6E6	216.503	320.238	#
10) 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.

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



00842

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/1	ug/1

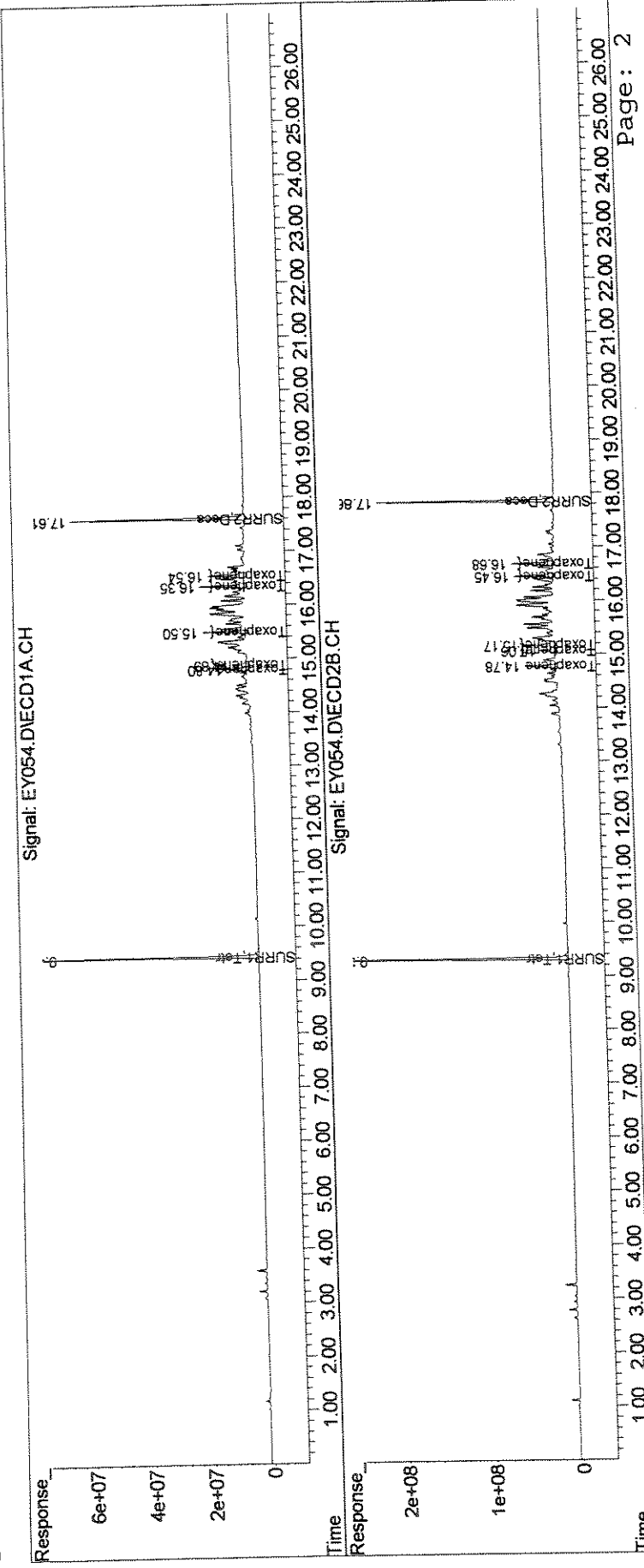
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1264.2E6	4919.8E6	68.517	83.703
Spiked Amount	100.000	Range	30 - 150	Recovery	= 68.52%	83.70%
5) S SURR2,Decachloro	17.61	17.86	1083.2E6	3430.6E6	63.305	79.592 #
Spiked Amount	100.000	Range	30 - 150	Recovery	= 63.31%	79.59%
Target Compounds						
6) L8C Toxaphene	14.80	14.78	193.4E6	903.7E6	448.900	646.487 #
7) L8C Toxaphene {2}	14.89	15.06	156.8E6	427.5E6	394.754	551.305 #
8) L8C Toxaphene {3}	15.50	15.17	319.8E6	881.3E6	469.812	574.244
9) L8C Toxaphene {4}	16.35	16.45	388.7E6	904.9E6	420.536	610.608 #
10) 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.

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



80844

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUADATA\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:\ACQUADATA\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

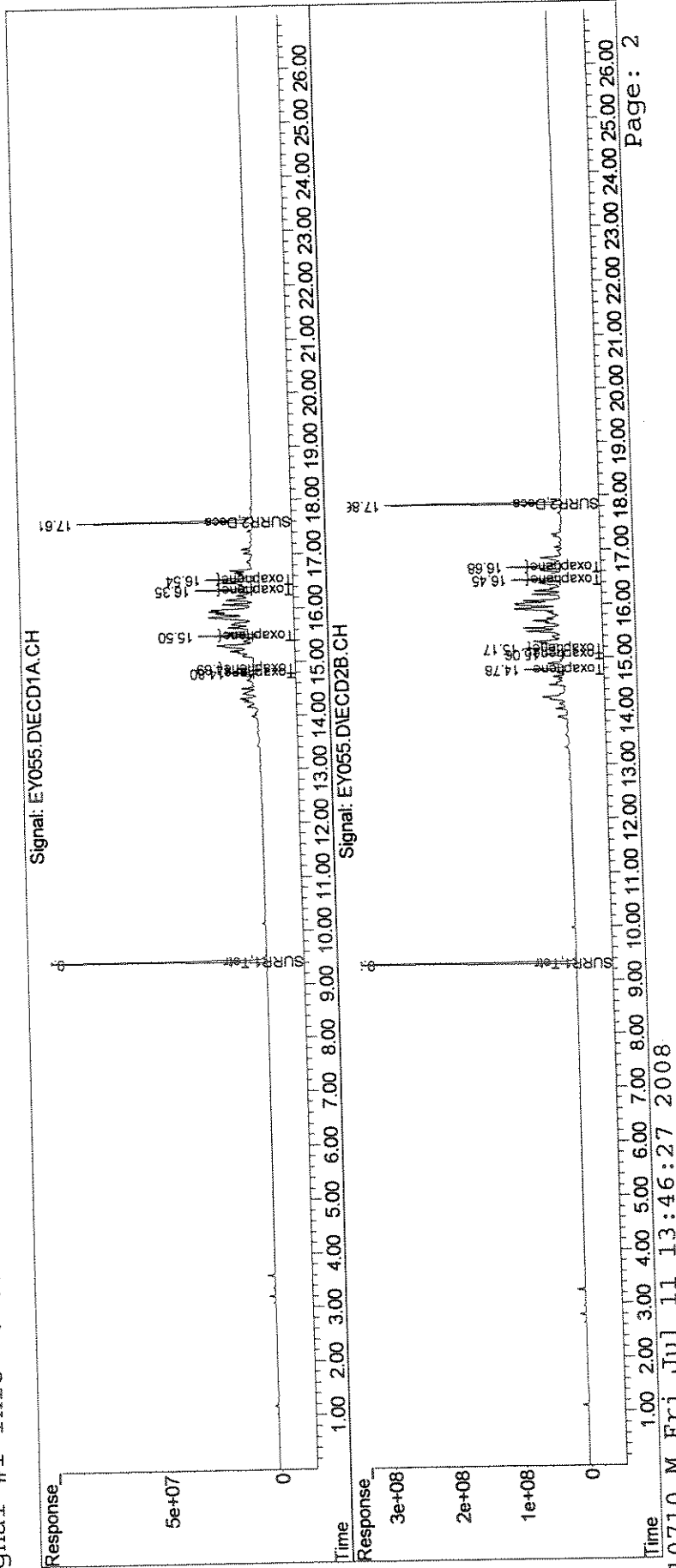
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1706.9E6	6498.9E6	92.507	110.569
Spiked Amount	100.000	Range	30 - 150	Recovery =	92.51%	110.57%
5) S SURR2,Decachloro	17.61	17.86	1475.0E6	4619.1E6	86.204	107.165
Spiked Amount	100.000	Range	30 - 150	Recovery =	86.20%	107.16%
Target Compounds						
6) L8C Toxaphene	14.80	14.78	320.4E6	1493.0E6	743.593	1068.053 #
7) L8C Toxaphene {2}	14.89	15.06	289.8E6	705.3E6	729.833	909.615
8) L8C Toxaphene {3}	15.50	15.17	544.1E6	1469.1E6	799.415	957.199
9) L8C Toxaphene {4}	16.35	16.45	656.8E6	1520.8E6	710.669	1026.265 #
10) 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.

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



00846

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%
5) 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						
6) L8C Toxaphene	14.80	14.78	443.4E6	2032.5E6	1029.229	1454.037 #
7) L8C Toxaphene {2}	14.89	15.06	369.7E6	966.8E6	930.998	1246.835 #
8) L8C Toxaphene {3}	15.50	15.17	746.0E6	1998.6E6	1095.947	1302.217
9) L8C Toxaphene {4}	16.35	16.45	902.2E6	2069.2E6	976.111	1396.316 #
10) 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

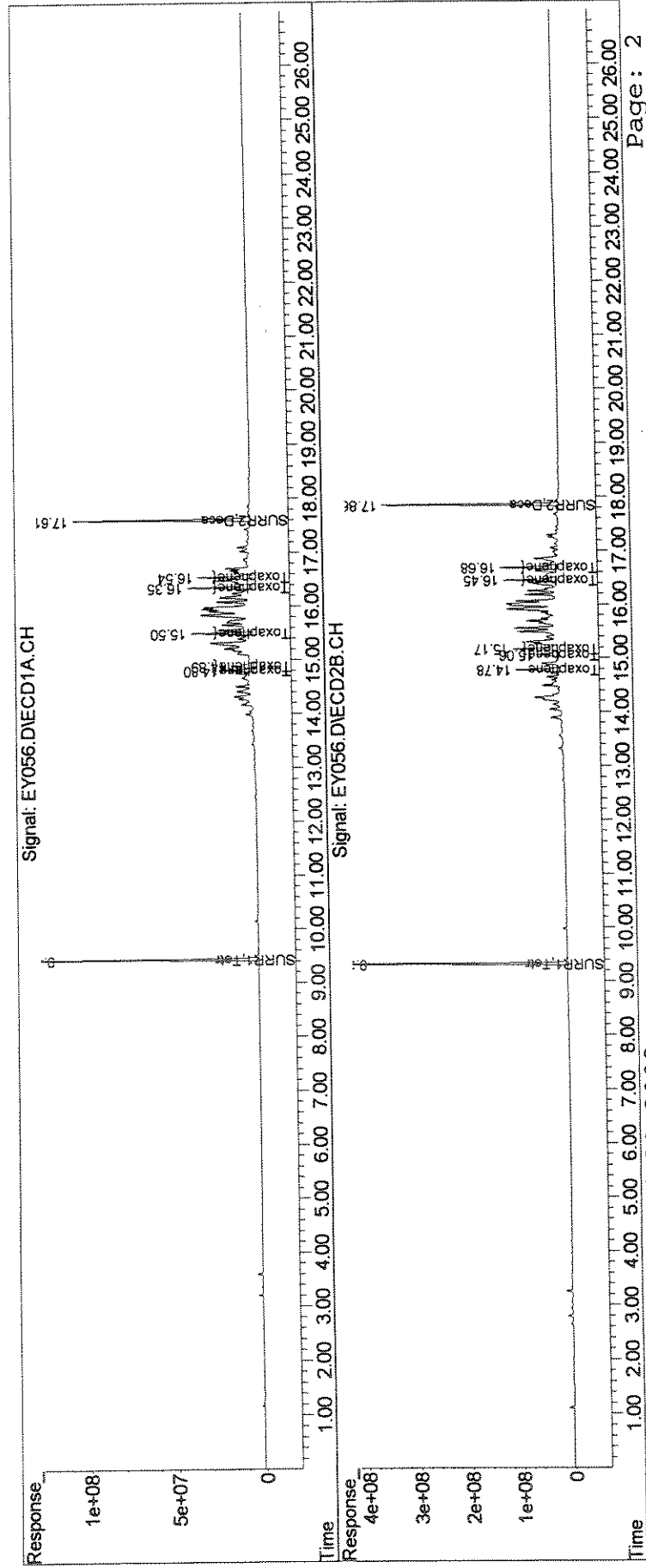
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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



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

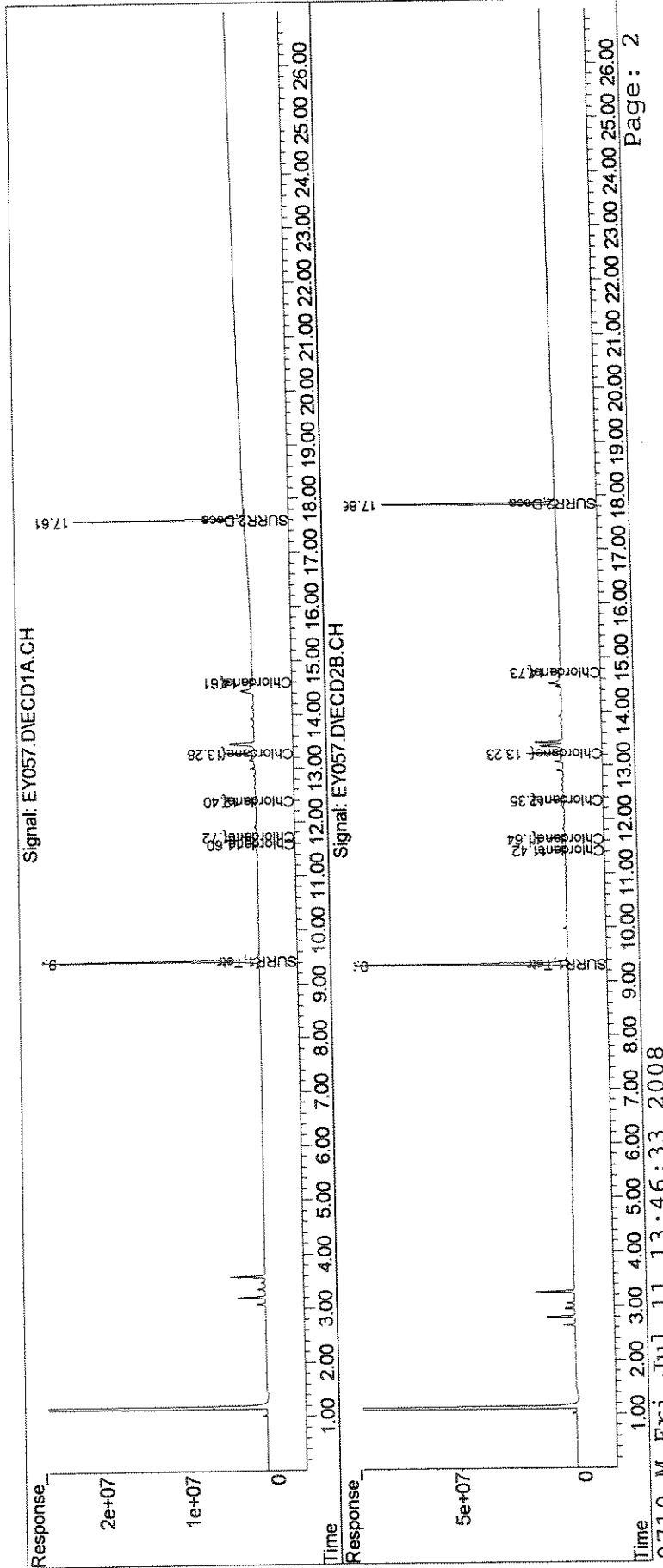
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	416.4E6	1689.2E6	22.567	28.740 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		22.57%#	28.74%#
5) S SURR2,Decachloro	17.61	17.86	379.3E6	1214.2E6	22.167	28.170 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		22.17%#	28.17%#
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
1) L9C Chlordane	11.60	11.42	19799636	79985155	26.545	31.488
2) L9C Chlordane {2}	11.72	11.64	27122912	109.8E6	25.314	33.209 #
3) L9C Chlordane {3}	12.40	12.35	27280528	94374008	28.224	35.662 #
4) L9C Chlordane {4}	13.28	13.23	64201779	241.9E6	23.986	36.655 #
5) 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.

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 l
 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



00850

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

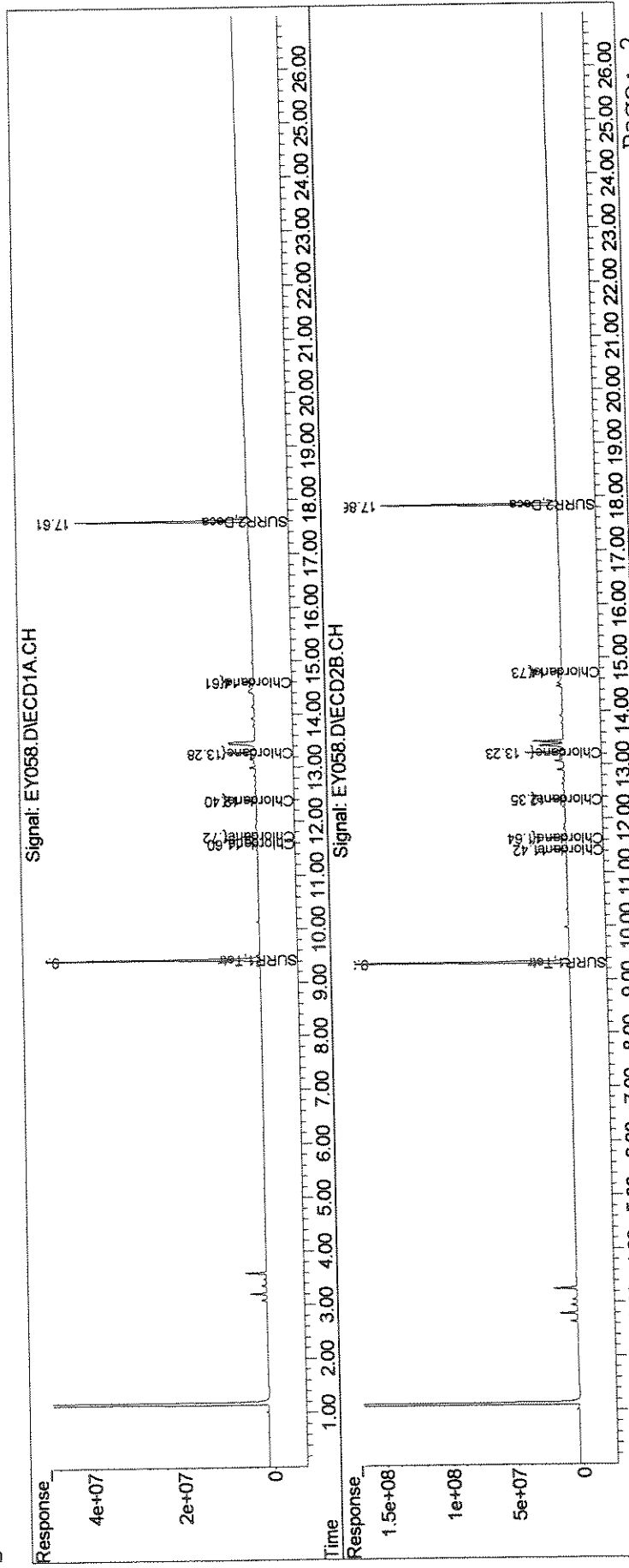
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	808.6E6	3239.3E6	43.825	55.111 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		43.83%	55.11%
5) S SURR2,Decachloro	17.61	17.86	687.5E6	2311.4E6	40.181	53.625 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.18%	53.63%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
1) L9C Chlordane	11.60	11.42	39061951	161.7E6	52.370	63.666
2) L9C Chlordane {2}	11.72	11.64	54692888	225.6E6	51.045	68.235 #
3) L9C Chlordane {3}	12.40	12.35	52450841	183.0E6	54.264	69.166 #
4) L9C Chlordane {4}	13.28	13.23	134.4E6	495.4E6	50.227	75.076 #
5) 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.

Data Path : J:\ACQDATA\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:\ACQDATA\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



80852

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

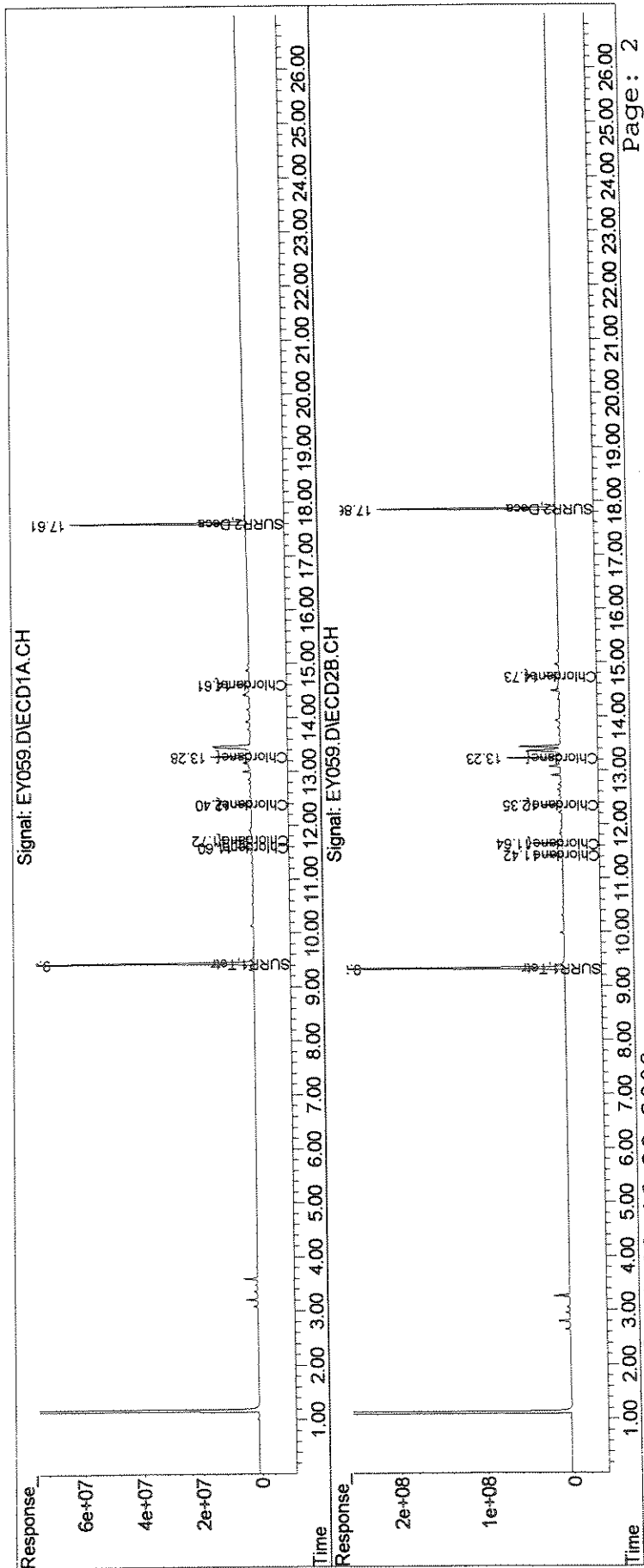
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1255.5E6	4842.2E6	68.045	82.383
Spiked Amount	100.000	Range	30 - 150	Recovery	= 68.05%	82.38%
25) S SURR2,Decachloro	17.61	17.86	1060.9E6	3542.7E6	62.004	82.192 #
Spiked Amount	100.000	Range	30 - 150	Recovery	= 62.00%	82.19%
Target Compounds						
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.

Data Path : J:\ACQDATA\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:\ACQDATA\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



00854

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
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 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

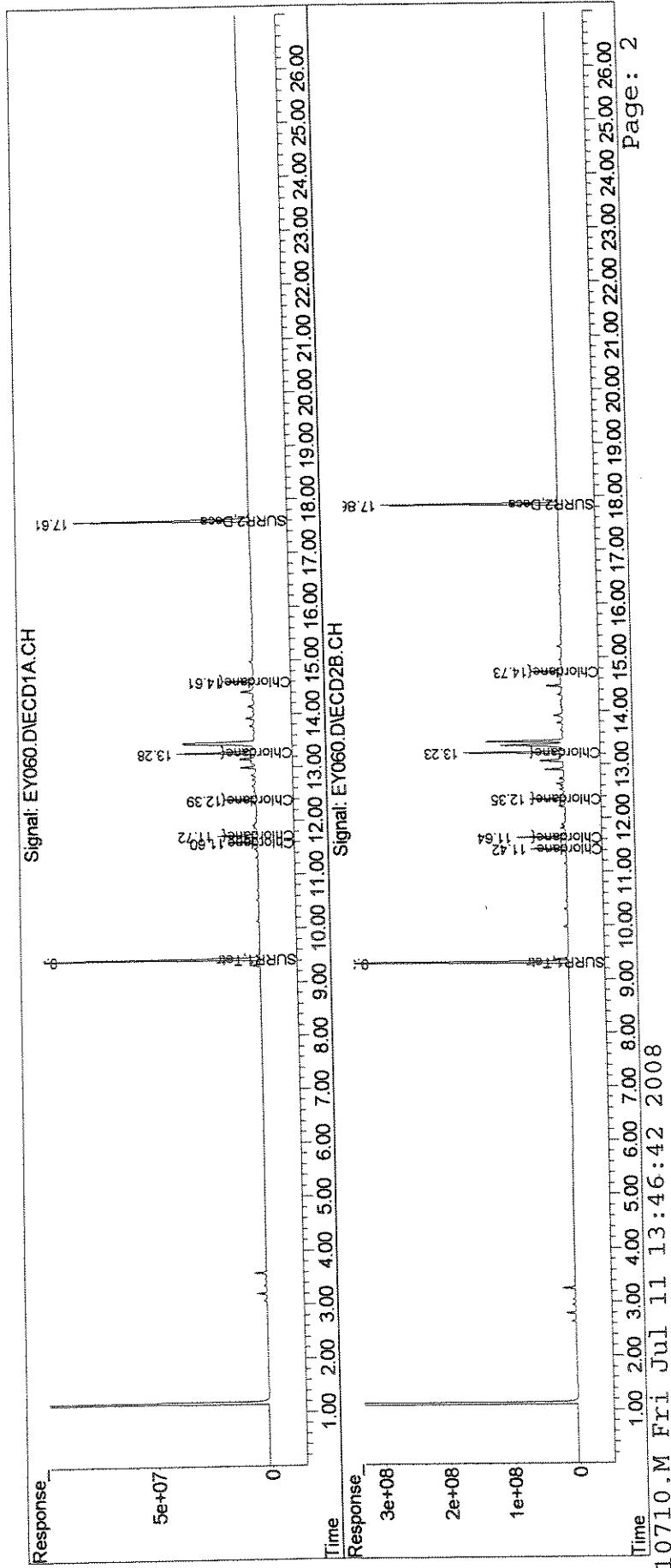
31) L9C	Chlordane	11.60	11.42	200.2E6	810.3E6	268.371	319.010
32) L9C	Chlordane {2}	11.72	11.64	287.4E6	1138.0E6	268.185	344.249 #
33) L9C	Chlordane {3}	12.40	12.35	248.8E6	868.6E6	257.436	328.241 #
34) L9C	Chlordane {4}	13.28	13.23	715.7E6	2550.7E6	267.376	386.561 #
35) L9C	Chlordane {5}	14.61	14.73	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.

Data Path : J:\ACQDATA\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:\ACQDATA\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



00856

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUADATA\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:\ACQUADATA\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

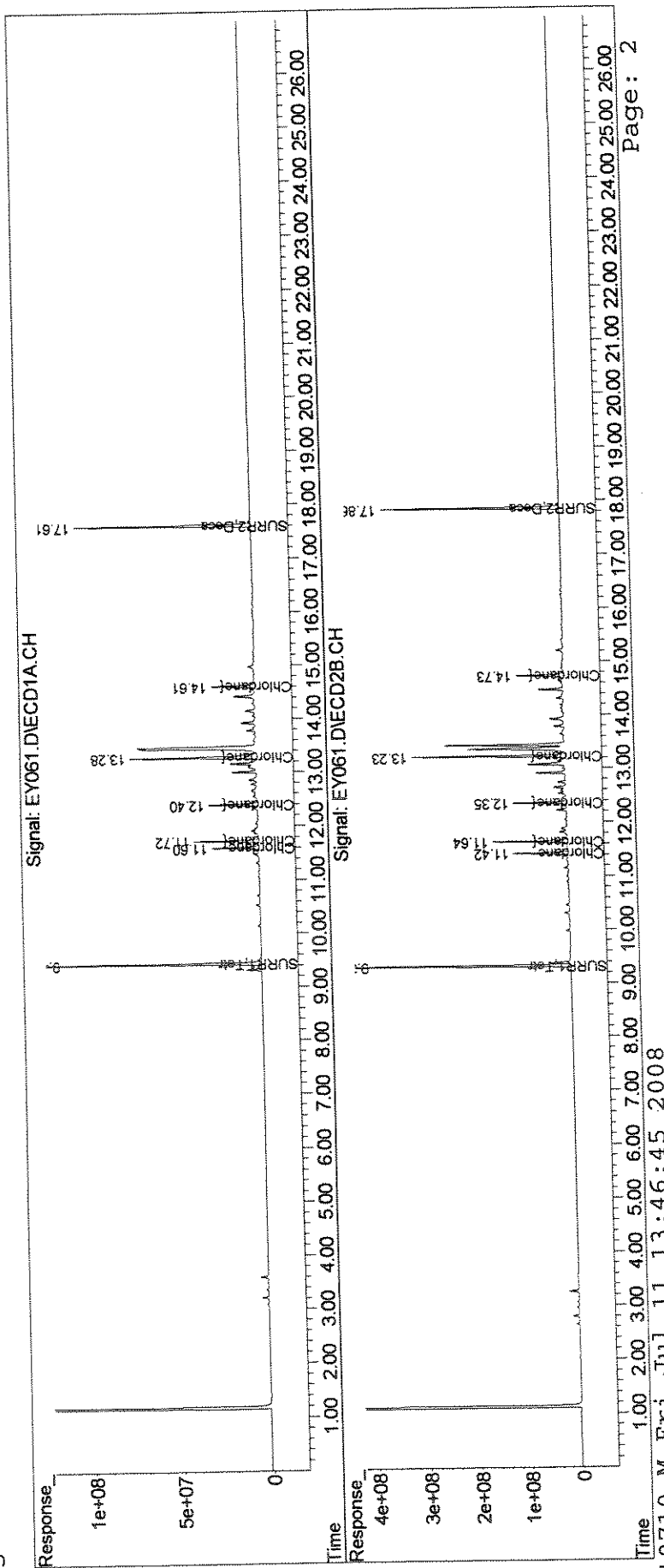
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	2102.5E6	7853.3E6	113.948	133.611
Spiked Amount	100.000	Range 30 - 150	Recovery =		113.95%	133.61%
5) S SURR2,Decachloro	17.61	17.86	1768.4E6	5883.7E6	103.349	136.504 #
Spiked Amount	100.000	Range 30 - 150	Recovery =		103.35%	136.50%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
1) L9C Chlordane	11.60	11.42	411.1E6	1615.6E6	551.164	636.032
2) L9C Chlordane {2}	11.72	11.64	589.3E6	2224.2E6	549.986	672.790
3) L9C Chlordane {3}	12.40	12.35	497.6E6	1689.7E6	514.766	638.509
4) L9C Chlordane {4}	13.28	13.23	1466.3E6	5042.9E6	547.807	764.260 #
5) 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.

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 #1 Info : 0.32mm 30m
 Signal #2 Phase : STx-CLPII
 Signal #2 Info : 0.32mm 30m



00858

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 Found

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#

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
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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.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

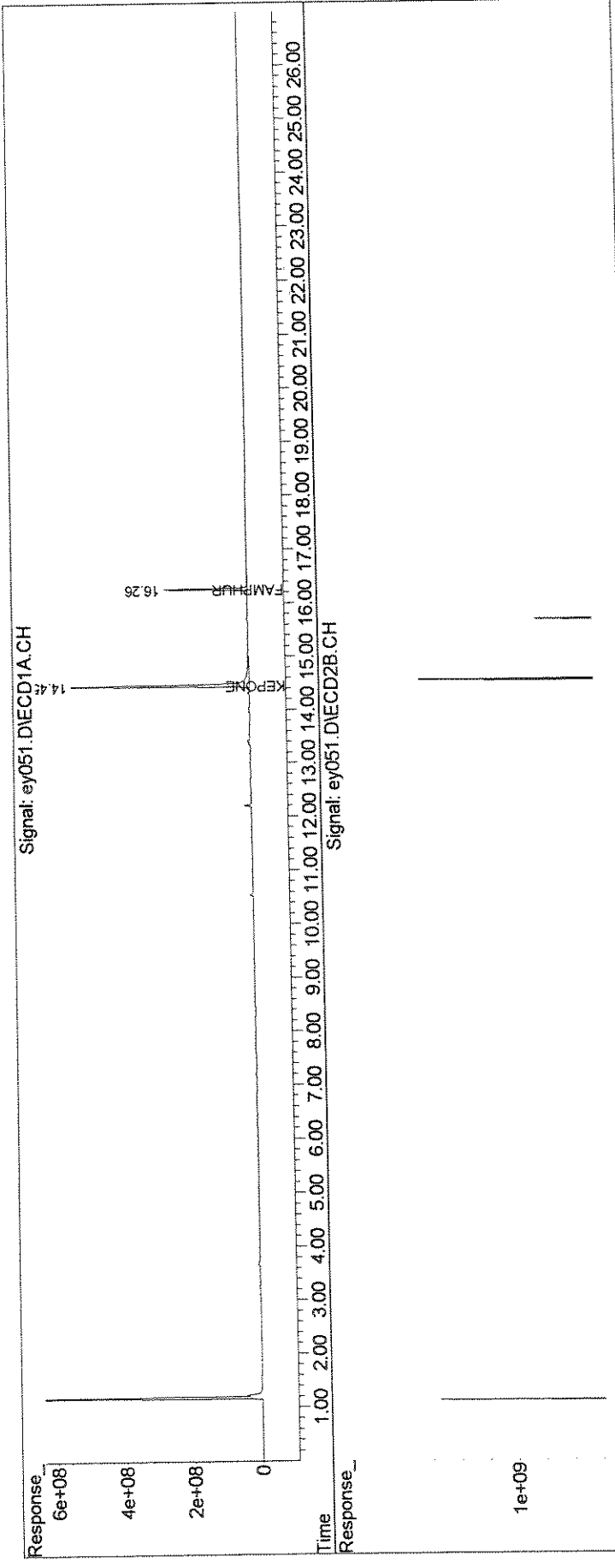
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

6/11

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



80810710

Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\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:\ACQUADATA\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)
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 Aldehy	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 Found

1 S SURR1,Tetrac	20.181	0.000 E6	100.0#	0#	-9.44#
2 TC HEXACHLORO BENZENE	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#

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

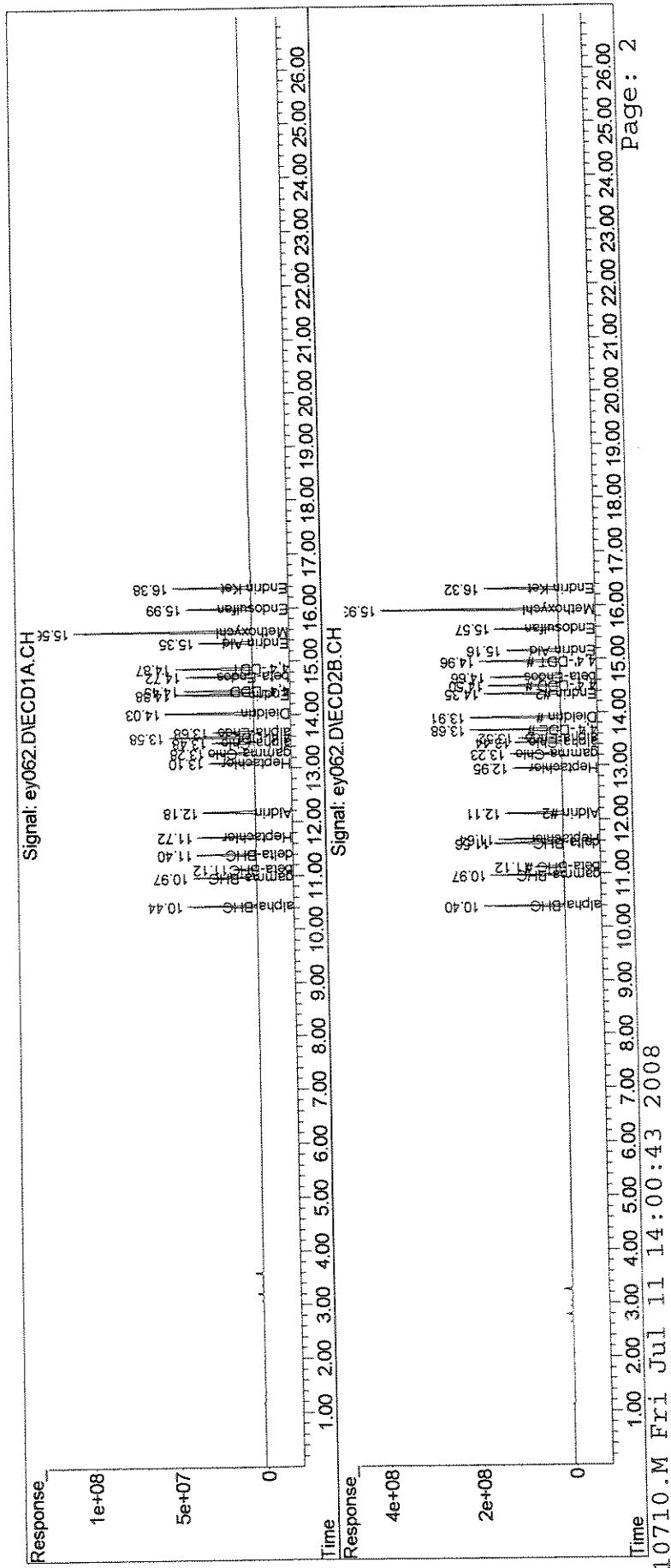
3) tc alpha-BHC	10.44	10.40	607.1E6	2494.8E6	19.637	21.023
4) tcm gamma-BHC (L	10.97	10.97	566.1E6	2248.1E6	20.072	21.395
5) tcm Heptachlor	11.72	11.64	551.1E6	2153.8E6	19.723	21.460
6) tcm Aldrin	12.18	12.12	493.1E6	1919.9E6	19.916	21.076
7) tc beta-BHC	11.12	11.12	223.1E6	936.0E6	19.427	20.741
8) tc 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.

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



00865

Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\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:\ACQUADATA\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 Found

1 S SURR1, Tetrac	20.181	0.000 E6	100.0#	0#	-9.44#
2 TC HEXACHLORO BENZENE	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:\ACQUADATA\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:\ACQUADATA\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
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System Monitoring Compounds

Target Compounds

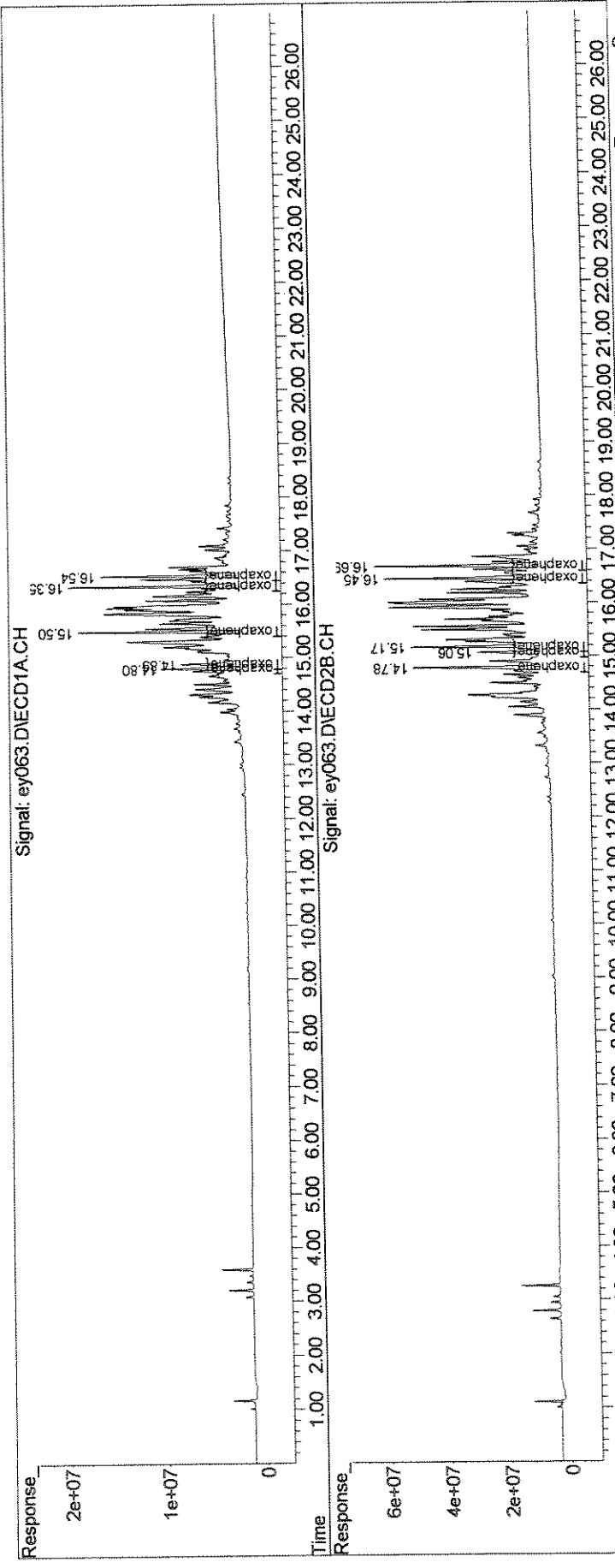
6) L8C Toxaphene	14.80	14.78	206.4E6	1018.2E6	517.530	526.264
7) L8C Toxaphene {2}	14.89	15.06	167.8E6	484.6E6	471.560	537.126
8) L8C Toxaphene {3}	15.50	15.17	343.5E6	997.8E6	510.355	533.783
9) L8C Toxaphene {4}	16.35	16.45	388.9E6	1029.5E6	475.198	534.495
0) L8C Toxaphene {5}	16.54	16.69	341.0E6	1218.9E6	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.

Data Path : J:\ACQDATA\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:\ACQDATA\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



00858

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 #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)
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 Found

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#

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

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
31) L9C Chlordane	11.60	11.42	82030317	342.7E6	102.888	105.999
32) L9C Chlordane {2}	11.72	11.64	117.2E6	482.9E6	104.032	107.322
33) L9C Chlordane {3}	12.40	12.35	106.8E6	379.9E6	103.478	106.122
34) L9C Chlordane {4}	13.28	13.23	290.4E6	1079.2E6	104.970	107.694
35) 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

*MJ
7/11*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

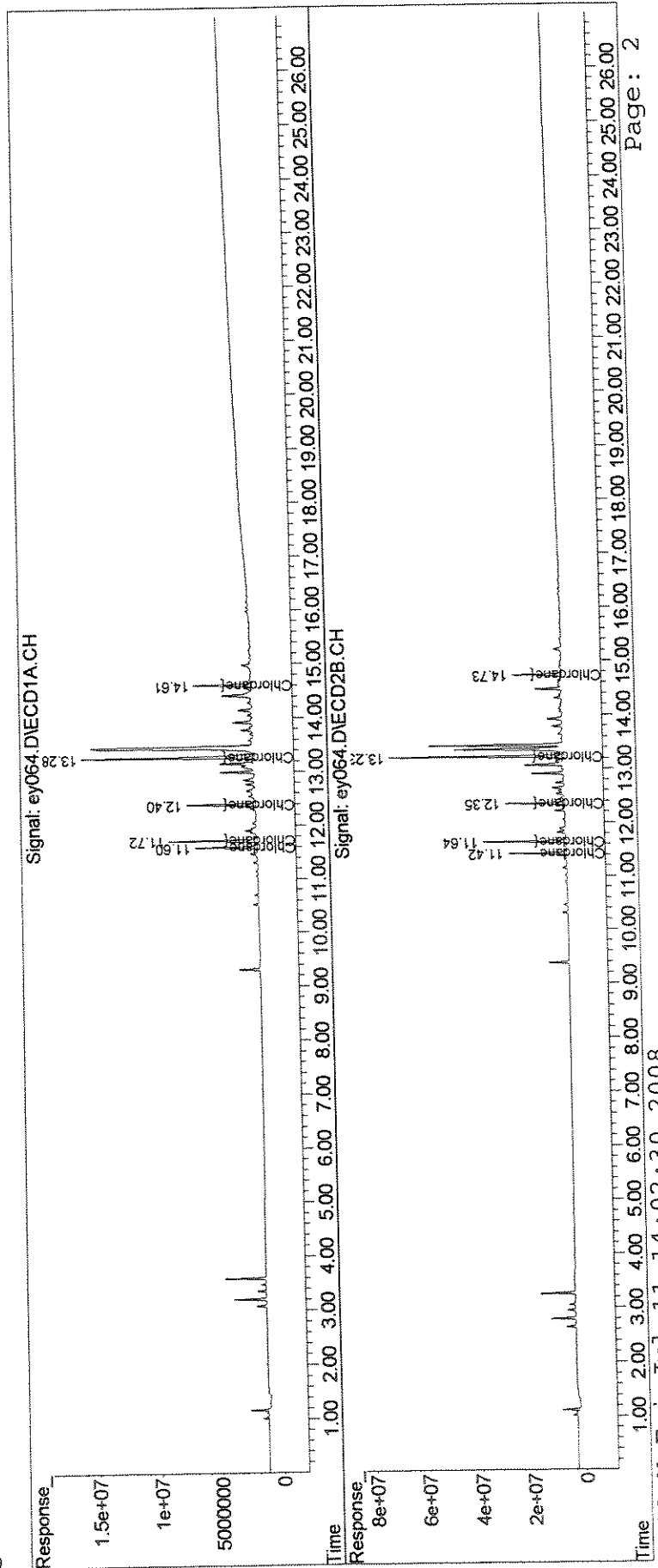
Volume Inj. : 1uL

Signal #1 Phase : STx-CLP

Signal #1 Info : 0.32mm 30m

Signal #2 Phase : STx-CLPII

Signal #2 Info : 0.32mm 30m



00871

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):	06/2/2008
EPA Sample No. (PEM):	PEM		Date Analyzed:	06/24/2008
LAB Sample ID. (PEM):	PEM		Time Analyzed:	17:37
4,4'-DDT % Breakdown (1):	1.5%		Endrin % Breakdown (1):	3.0%
Combined % Breakdown (1):	4.6%			

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

00872

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):	06/2/2008
EPA Sample No. (PEM):	PEM		Date Analyzed:	06/24/2008
LAB Sample ID. (PEM):	PEM		Time Analyzed:	17:37
4,4'-DDT % Breakdown (1):	2.2%		Endrin % Breakdown (1):	4.0%
Combined % Breakdown (1):	6.2%			

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

00873

Data Path : J:\ACQUADATA\6890D\DATA\062408\
 Data File : ex850.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 5:37 pm
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:09:51 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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

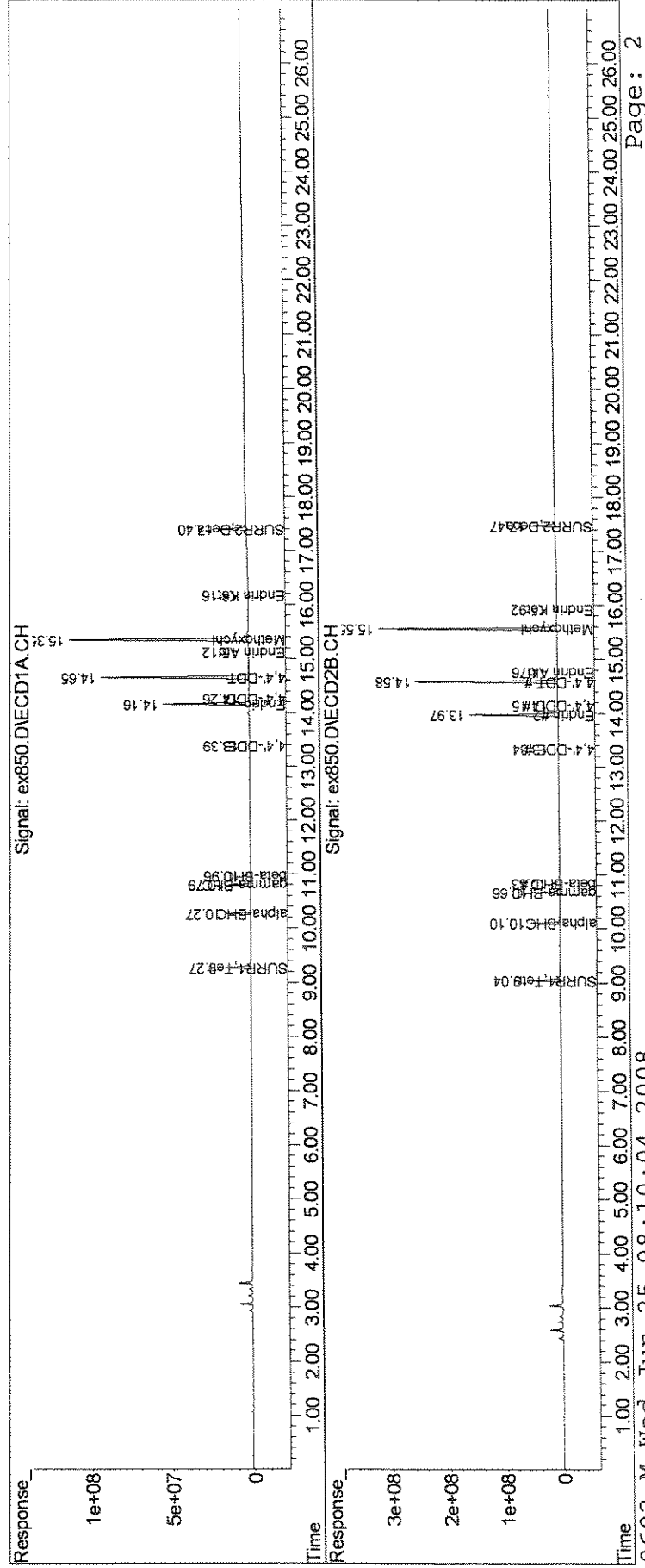
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	361.1E6	1172.7E6	19.174	19.220
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.17%#	19.22%#
25) S SURR2,Decachloro	17.40	17.47	325.8E6	808.7E6	19.077m	18.526m
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.08%#	18.53%#
Target Compounds						
3) tc alpha-BHC	10.27	10.10	267.2E6	885.2E6	8.898	9.573
4) tcm gamma-BHC (L	10.79	10.66	244.0E6	787.7E6	8.876	9.588
7) tc beta-BHC	10.96	10.83	109.2E6	342.4E6	9.454	9.600
13) tc 4,4'-DDE	13.39	13.34	4501173	25244884	0.200	0.387 #
15) tcm Endrin	14.16	13.97	1000.9E6	2678.1E6	47.981	47.215
18) tc 4,4'-DDD	14.26	14.15	24395201	84095292	1.297	1.629 #
19) tcm 4,4'-DDT	14.65	14.58	1867.8E6	4799.6E6	93.243	87.585
20) tc Endrin Aldeh	15.13	14.76	8493780	48449032	0.575	1.204 #
22) tc Methoxychlor	15.35	15.55	2264.1E6	5579.1E6	229.394	231.349
24) tc Endrin Keton	16.16	15.92	22933001	62889808	1.098	1.162
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.

Data Path : J:\ACQUDATA\6890D\DATA\062408\
Data File : ex850.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2008 5:37 pm
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 25 08:09:51 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Wed Jun 25 07:06:05 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



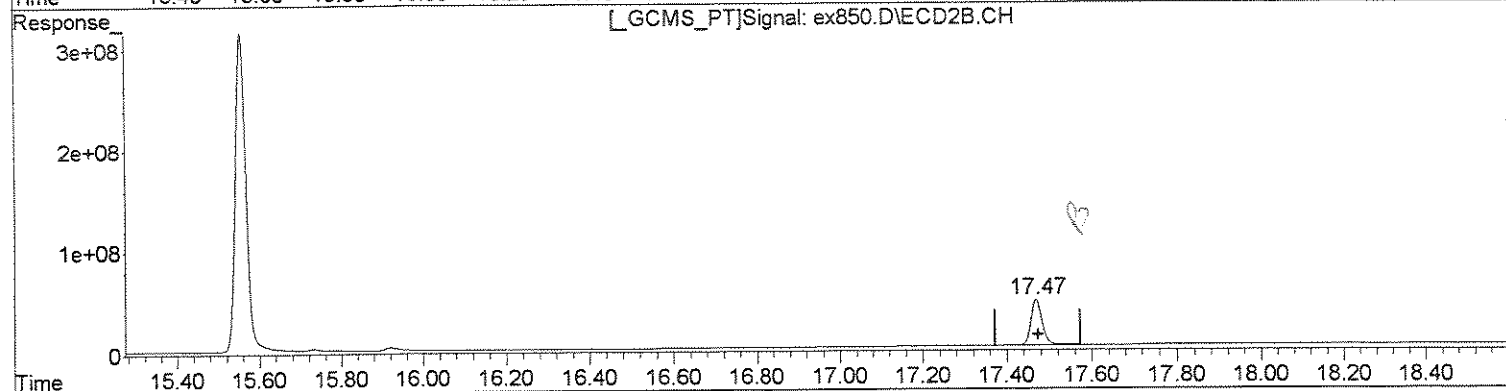
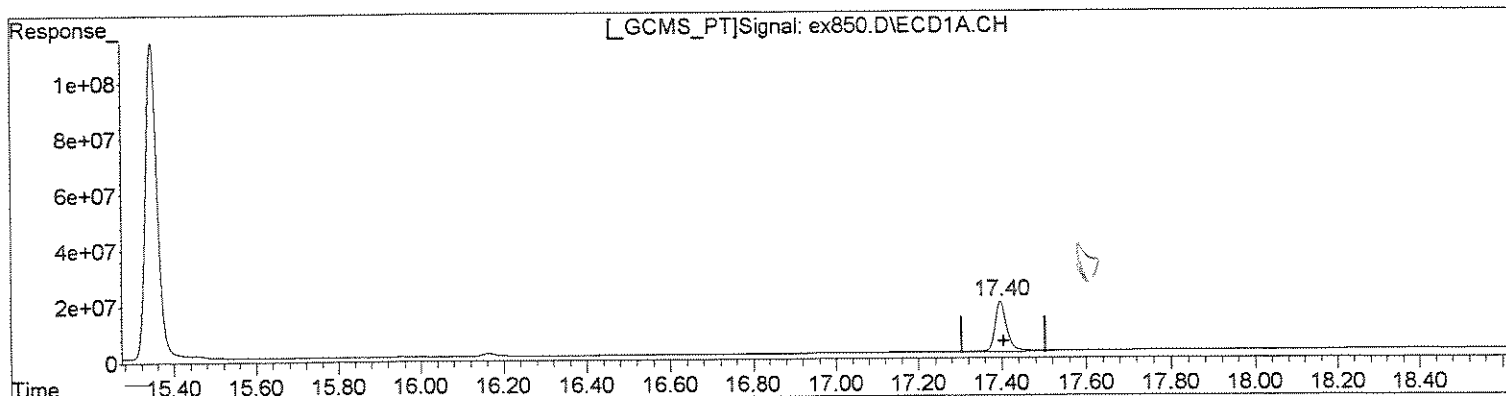
00875

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062408\
Data File : ex850.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2008 5:37 pm
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 25 07:07:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Wed Jun 25 07:06:05 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)
17.40min 23.709ug/l
response 404965030

(25) SURR2,Decachlorobiphenyl #2 (S)
17.47min 18.729ug/l
response 817528351

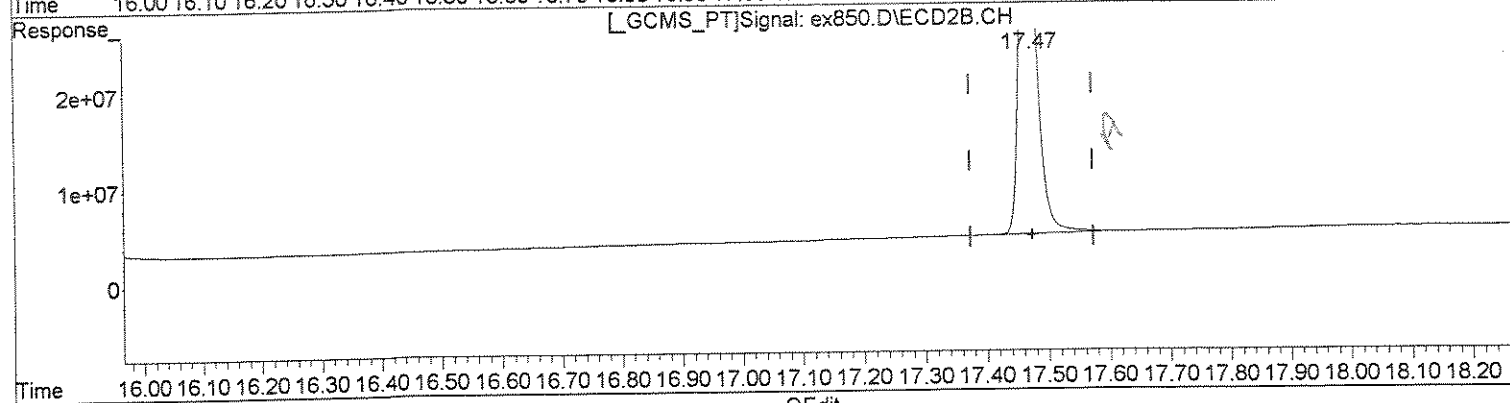
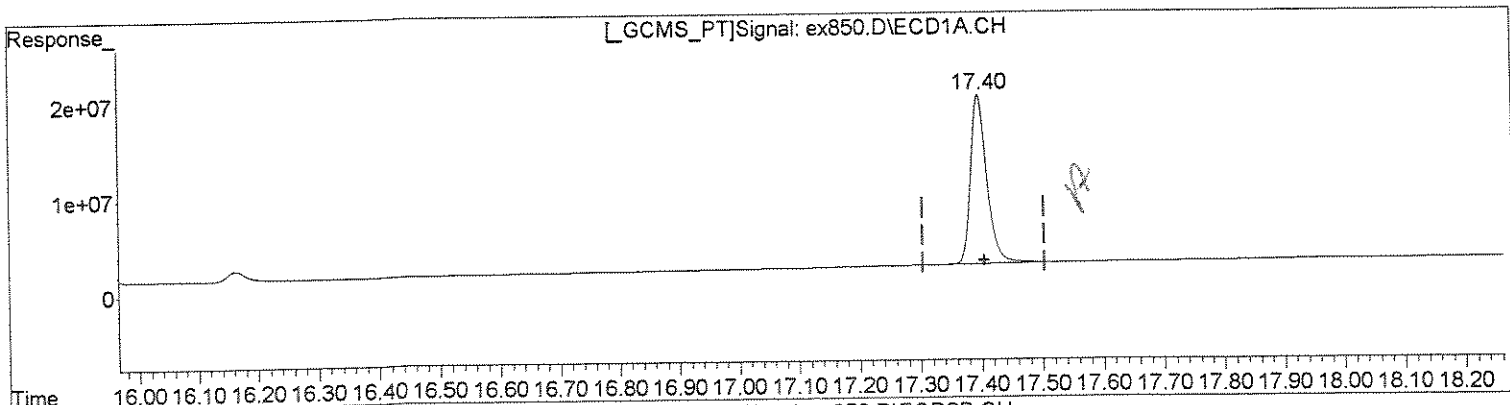
BANK

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062408\
Data File : ex850.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2008 5:37 pm
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 25 07:07:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Wed Jun 25 07:06:05 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)
17.40min 19.077ug/l m
response 325848804

(25) SURR2,Decachlorobiphenyl #2 (S)
17.47min 18.526ug/l m
response 808680116

Handwritten notes:
Mug 6/25
Mug 6/25

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):	06/2/2008
EPA Sample No. (PEM):	PEM		Date Analyzed:	06/26/2008
LAB Sample ID. (PEM):	PEM		Time Analyzed:	8:27
4,4'-DDT % Breakdown (1):	1.3%		Endrin % Breakdown (1):	4.1%
Combined % Breakdown (1):	5.5%			

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):	06/2/2008
EPA Sample No. (PEM):	PEM		Date Analyzed:	06/26/2008
LAB Sample ID. (PEM):	PEM		Time Analyzed:	8:27
4,4'-DDT % Breakdown (1):	2.4%		Endrin % Breakdown (1):	4.1%
Combined % Breakdown (1):	6.5%			

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

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex871.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 8:27 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: Jun 27 09:06:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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/1	ug/1
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System Monitoring Compounds

1) S SURR1,Tetrac	9.28	9.04	370.6E6	1219.0E6	19.678	19.978
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.68%#	19.98%#
25) S SURR2,Decachloro	17.41	17.47	343.6E6	854.1E6	20.114	19.568
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.11%#	19.57%#

Target Compounds

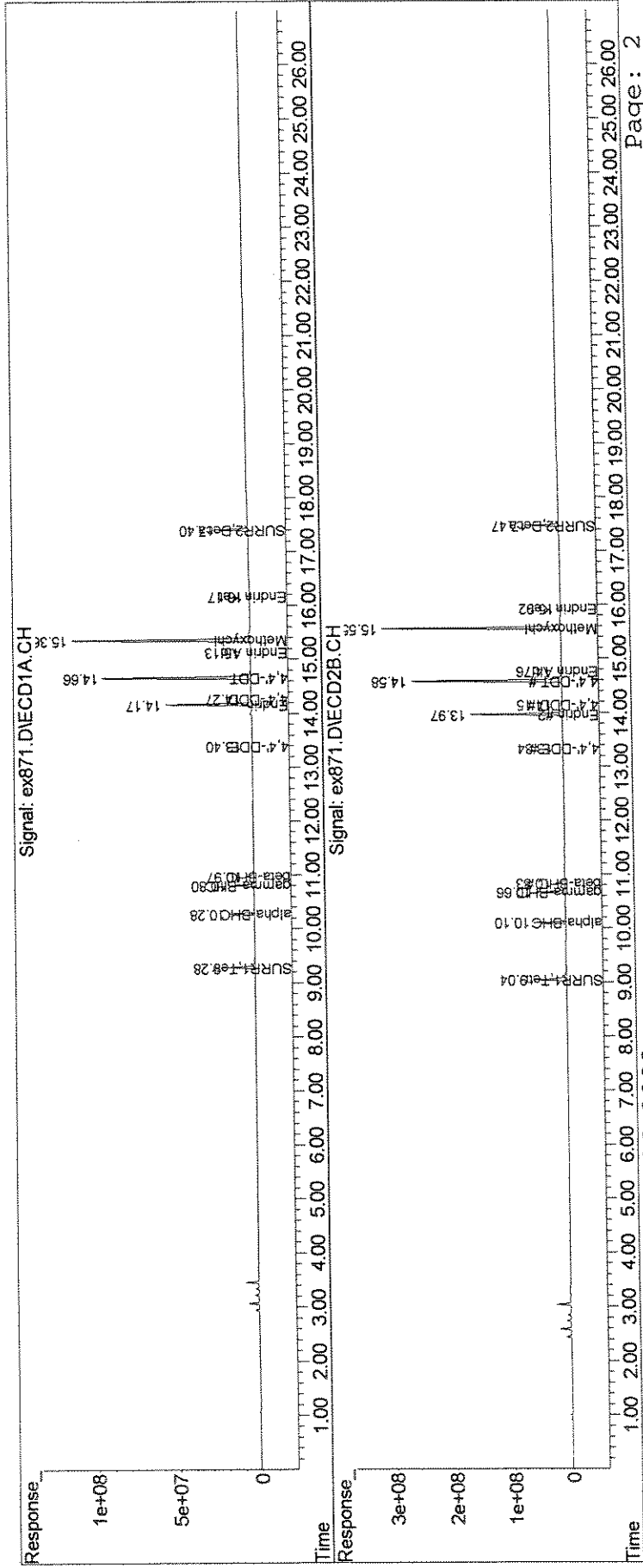
3) tc alpha-BHC	10.28	10.10	272.2E6	911.9E6	9.065	9.862
4) tcm gamma-BHC (L	10.80	10.66	246.4E6	806.4E6	8.965	9.816
7) tc beta-BHC	10.97	10.83	112.1E6	353.0E6	9.714	9.895
13) tc 4,4'-DDE	13.40	13.34	6694696	34619224	0.298	0.531 #
15) tcm Endrin	14.17	13.97	981.1E6	2685.8E6	47.035	47.351
18) tc 4,4'-DDD	14.27	14.15	17763043	84231938	0.944m	1.631m#
19) tcm 4,4'-DDT	14.66	14.58	1840.7E6	4833.4E6	91.891	88.202
20) tc Endrin Aldeh	15.13	14.76	15540290	41434907	1.052	1.030m
22) tc Methoxychlor	15.36	15.56	2213.9E6	5514.3E6	224.307	228.662
24) tc Endrin Keton	16.17	15.92	26888920	72942960	1.288	1.347
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.

Data Path : J:\ACQDATA\6890D\DATA\062608\
Data File : ex871.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 8:27 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: Jun 27 09:06:38 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



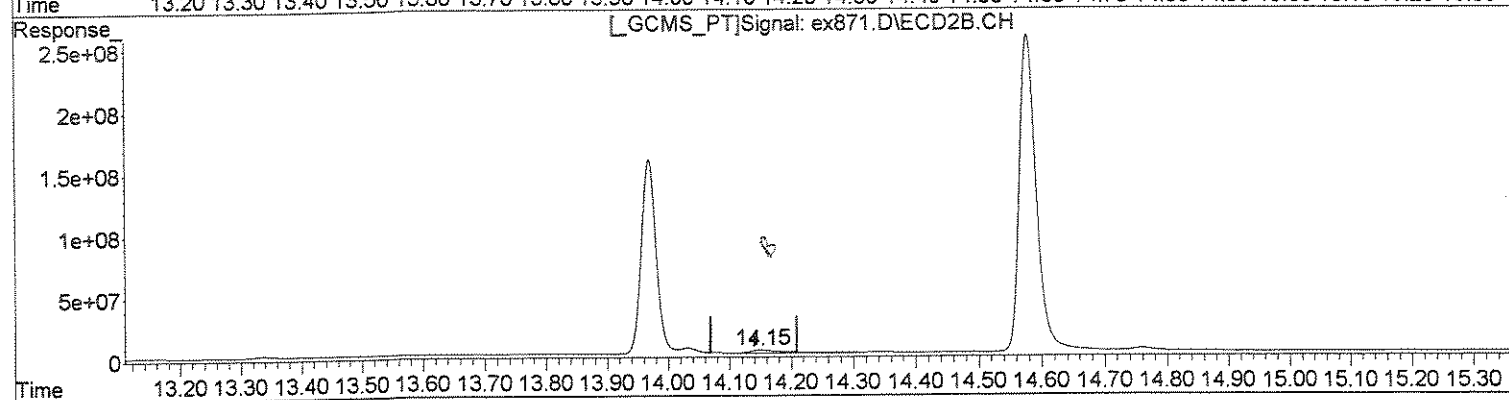
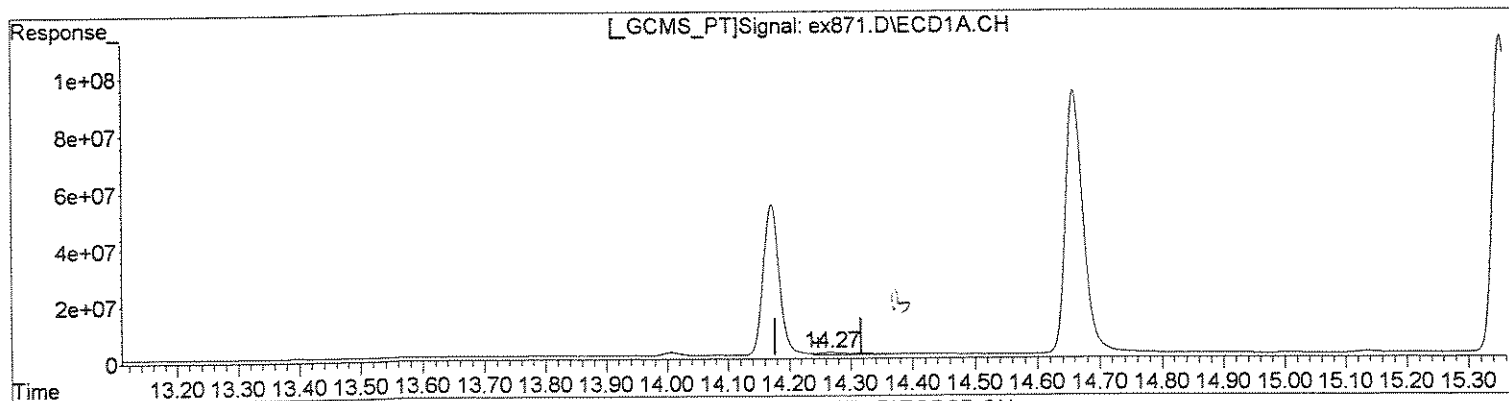
80881

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex871.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 8:27 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: Jun 27 08:30:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
14.27min 1.862ug/l
response 35021186

(18) 4,4'-DDD #2 (tc)
14.15min 2.495ug/l
response 128807531

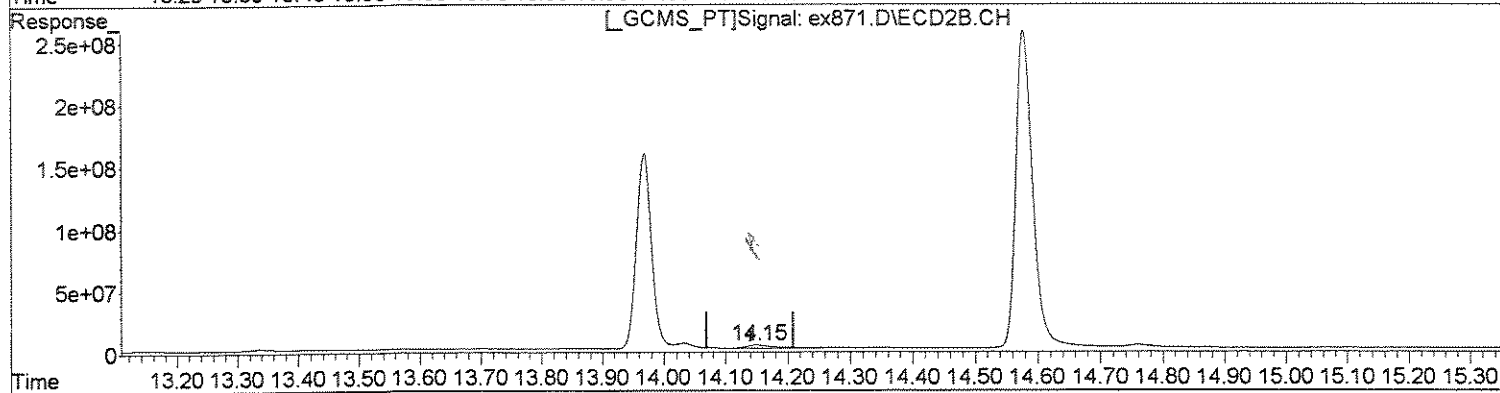
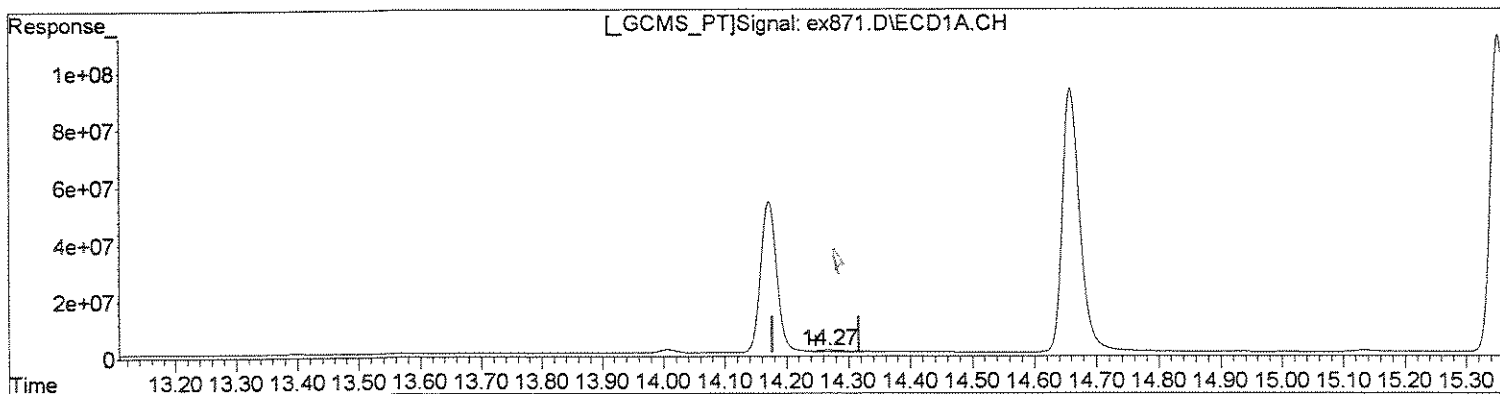
Baseline

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex871.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 8:27 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: Jun 27 08:30:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
14.27min 0.944ug/l m
response 17763043

(18) 4,4'-DDD #2 (tc)
14.15min 1.631ug/l m
response 84231938

*mwj
6/27*

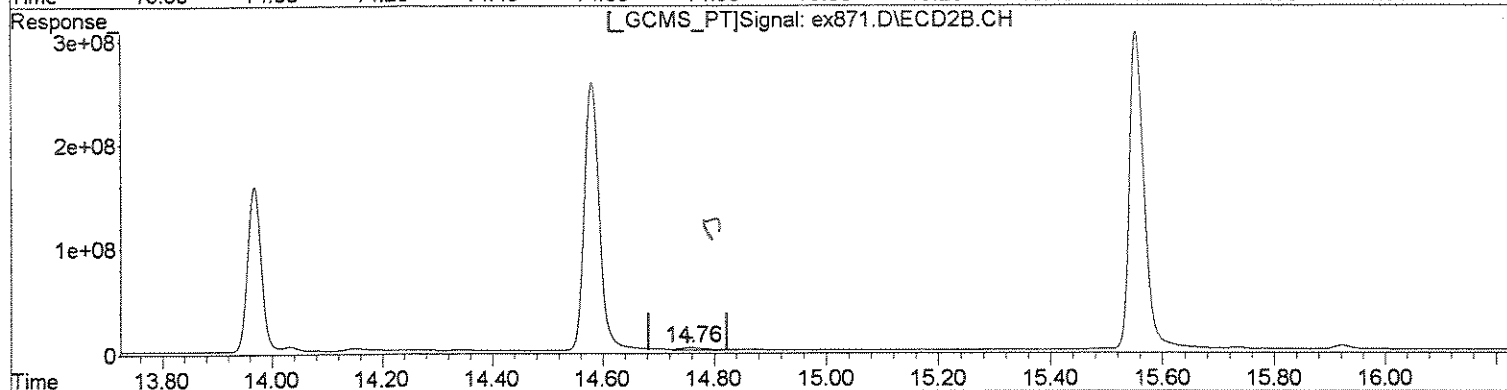
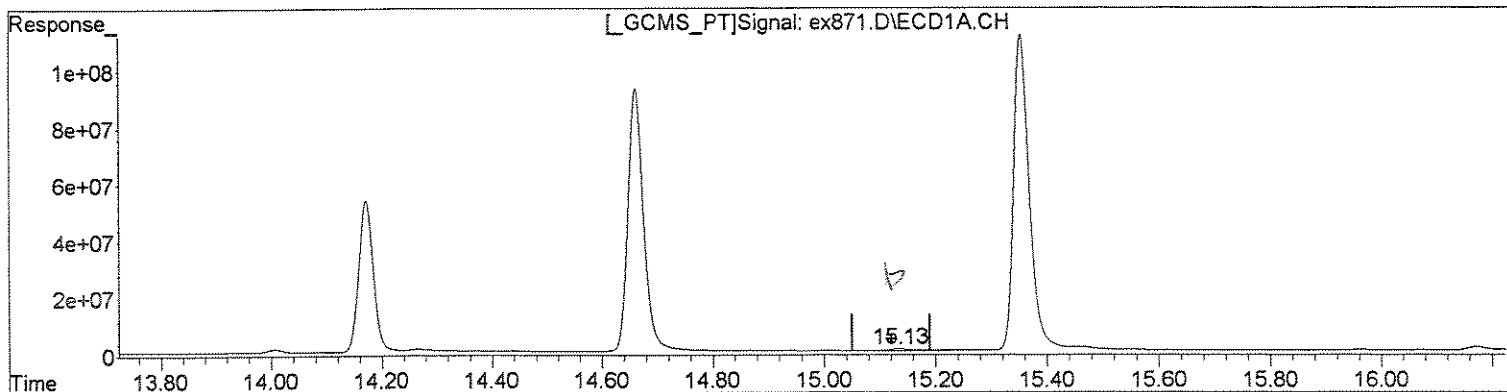
*mwj
6/27*

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex871.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 8:27 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: Jun 27 08:30:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
15.13min 1.052ug/l
response 15540290

Blue

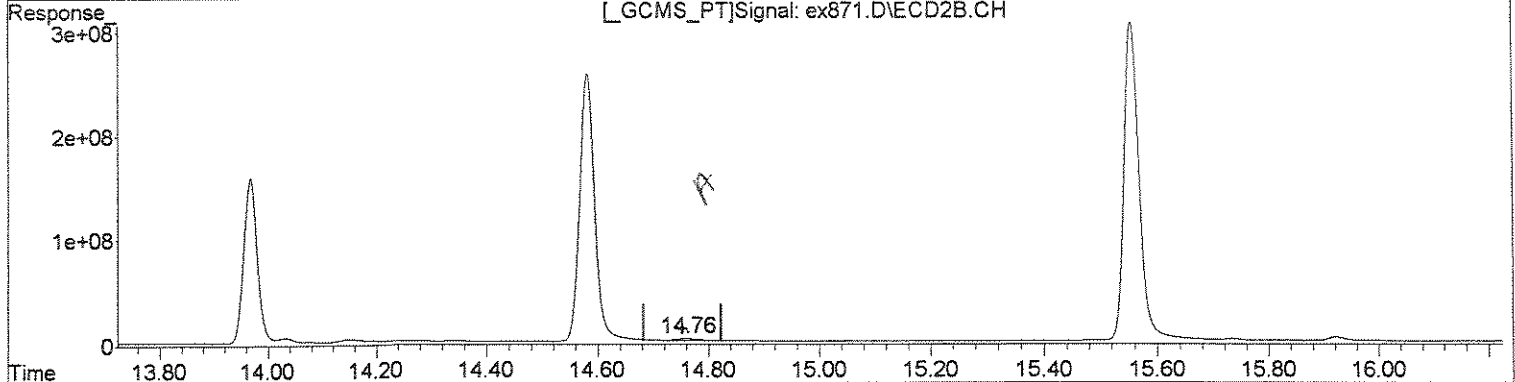
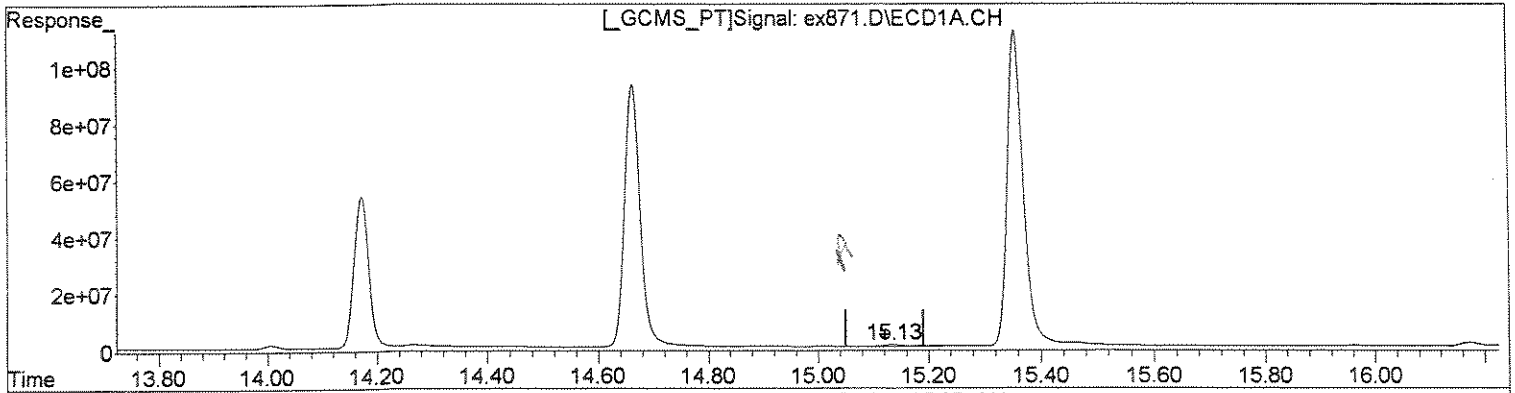
(20) Endrin Aldeh #2 (tc)
14.76min 2.075ug/l
response 83478641

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex871.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 8:27 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: Jun 27 08:30:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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)
15.13min 1.052ug/l
response 15540290

MJ
4/27

(20) Endrin Aldeh #2 (tc)
14.76min 1.030ug/l m
response 41434907

MW
4/27



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):	06/2/2008
EPA Sample No. (PEM):	PEM	Date Analyzed:	06/30/2008	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	8:04	
4,4'-DDT % Breakdown (1):	0.7%	Endrin % Breakdown (1):	2.7%	
Combined % Breakdown (1):	3.4%			

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

00886

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):	06/2/2008
EPA Sample No. (PEM):	PEM		Date Analyzed:	06/30/2008
LAB Sample ID. (PEM):	PEM		Time Analyzed:	8:04
4,4'-DDT % Breakdown (1):	1.6%		Endrin % Breakdown (1):	2.5%
Combined % Breakdown (1):	4.1%			

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

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex905.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:04 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 01 09:24:33 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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

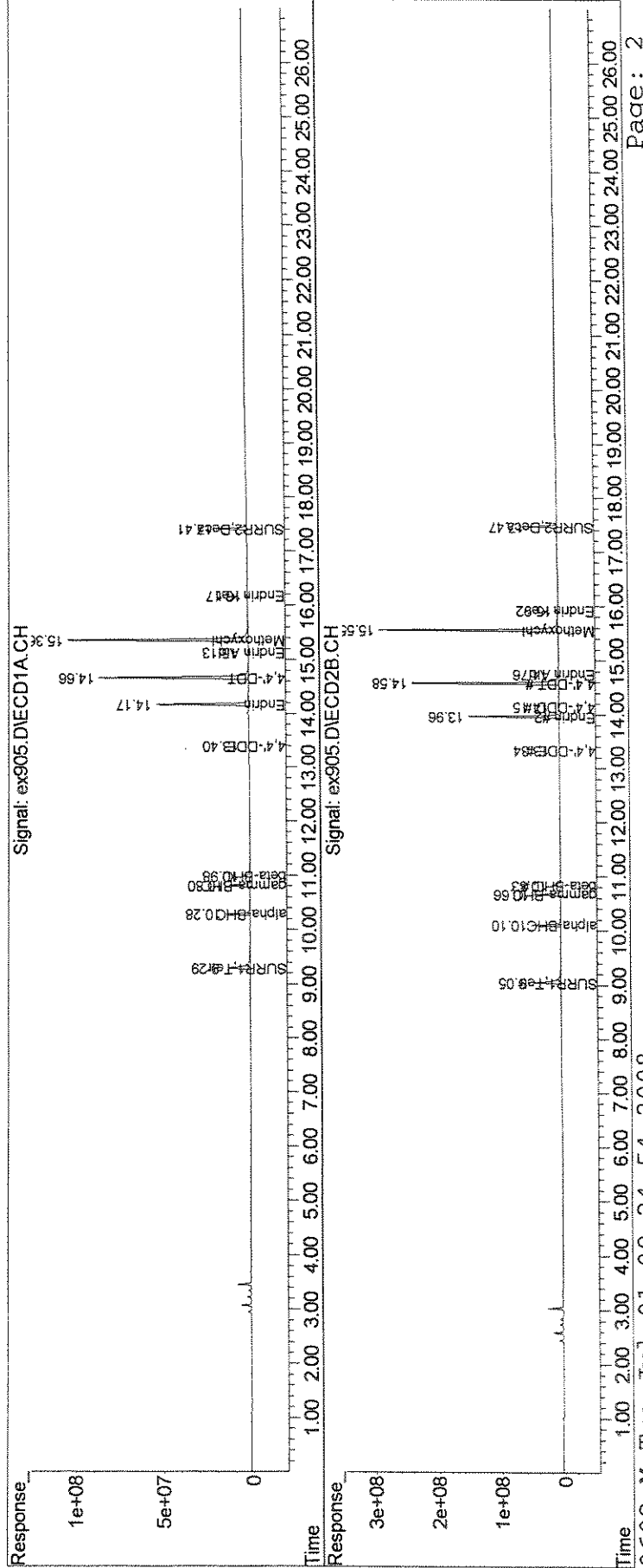
System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.05	367.0E6	1193.7E6	19.488	19.564
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.49%#	19.56%#
25) S SURR2,Decachloro	17.41	17.47	343.3E6	824.3E6	20.101	18.885
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.10%#	18.89%#
Target Compounds						
3) tc alpha-BHC	10.28	10.10	266.4E6	894.7E6	8.869	9.676
4) tcm gamma-BHC (L)	10.80	10.66	241.6E6	782.9E6	8.790	9.530
7) tc beta-BHC	10.98	10.83	113.8E6	382.0E6	9.857	10.708
13) tc 4,4'-DDE	13.40	13.34	12728612	49099024	0.566	0.753 #
15) tcm Endrin	14.17	13.96	1003.9E6	2581.3E6	48.128	45.508
18) tc 4,4'-DDD	0.00	14.15	0	27820541	N.D.	0.539m#
19) tcm 4,4'-DDT	14.66	14.58	1844.7E6	4611.9E6	92.086	84.160
20) tc Endrin Aldeh	15.13	14.76	7804969	21357844	0.528	0.531m
22) tc Methoxychlor	15.36	15.55	2275.4E6	5437.0E6	230.544	225.455m
24) tc Endrin Keton	16.17	15.92	19822002	43804536	0.949	0.809
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.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 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 01 09:24:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

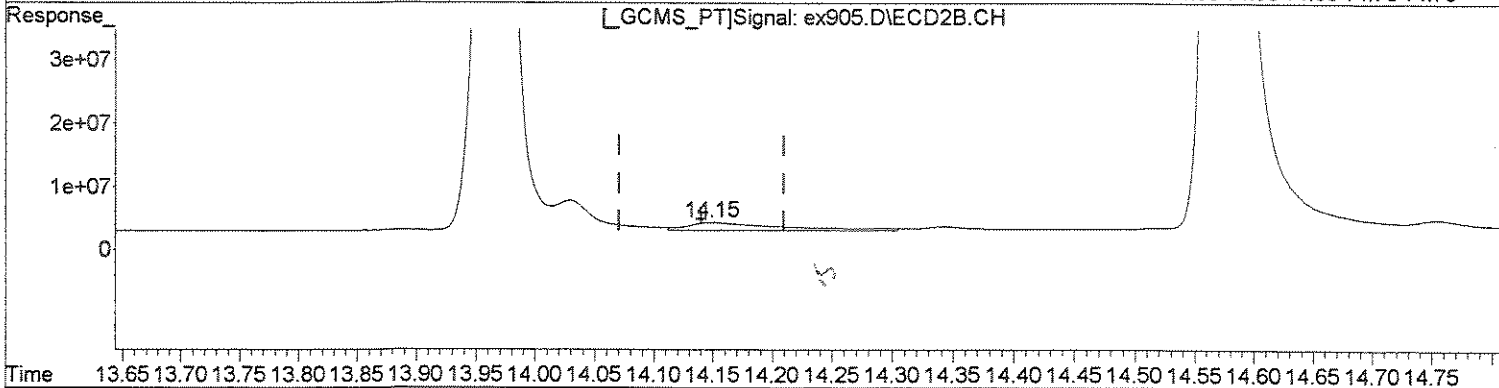
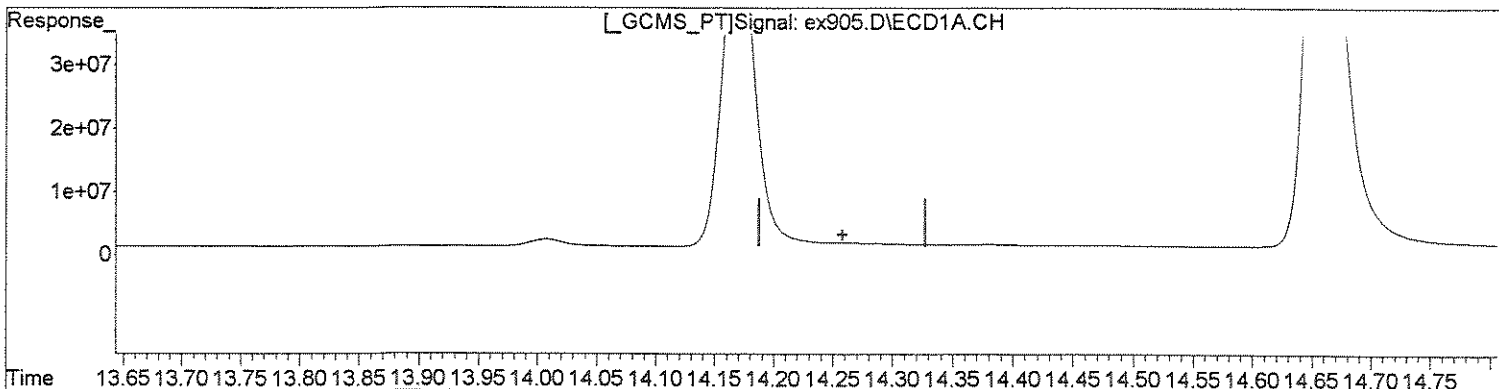
Volume Inj. : 1uL
Signal #1 Phase : STX-CLP Signal #2 Phase: STX-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 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 01 08:04:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)	
14.15min 1.405ug/l	
response 72564163	

Handwritten note: 0.000

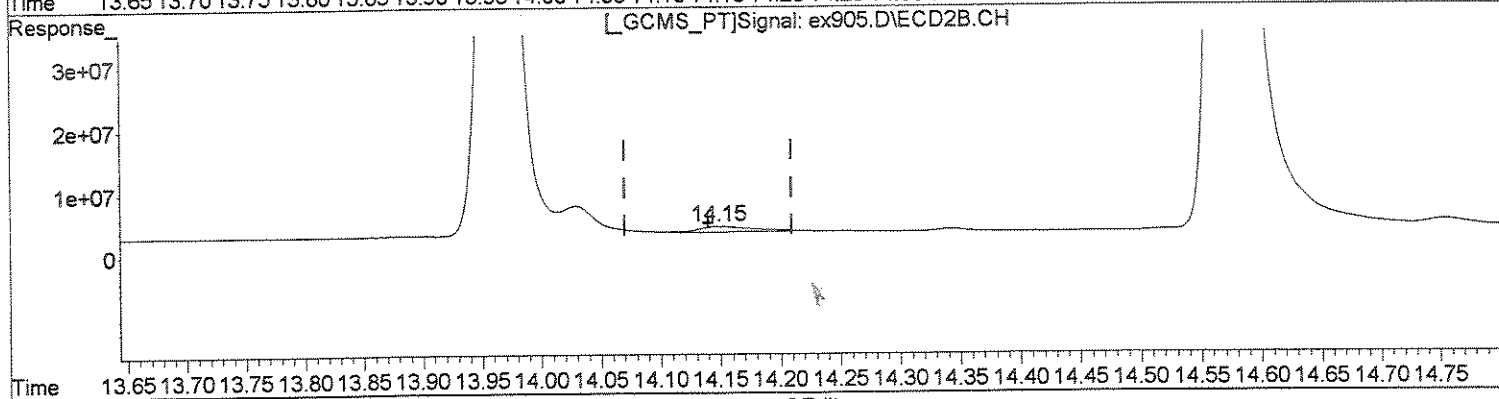
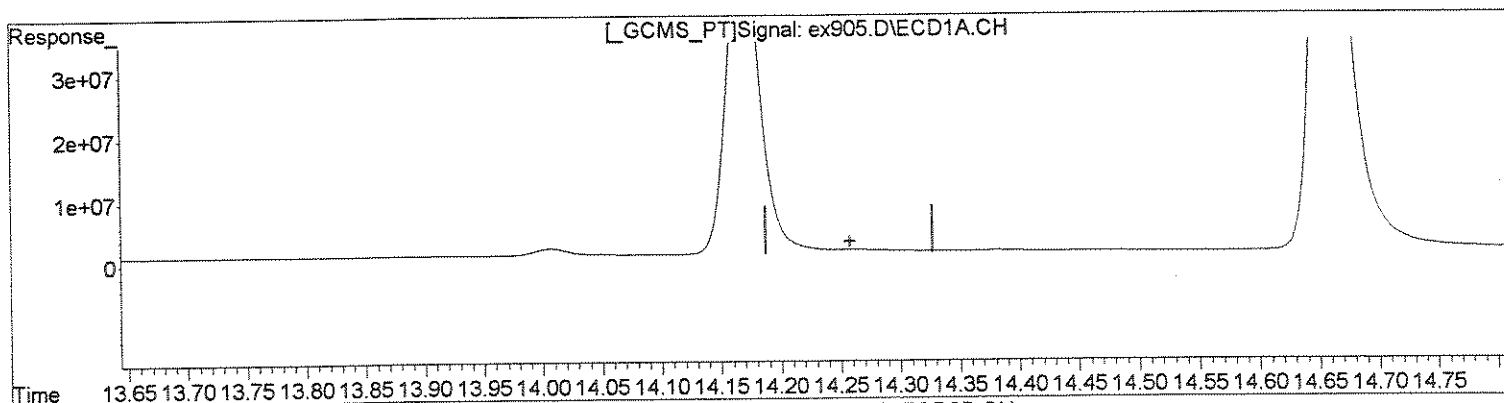
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 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 01 08:04:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
14.15min 0.539ug/l
response 27820541

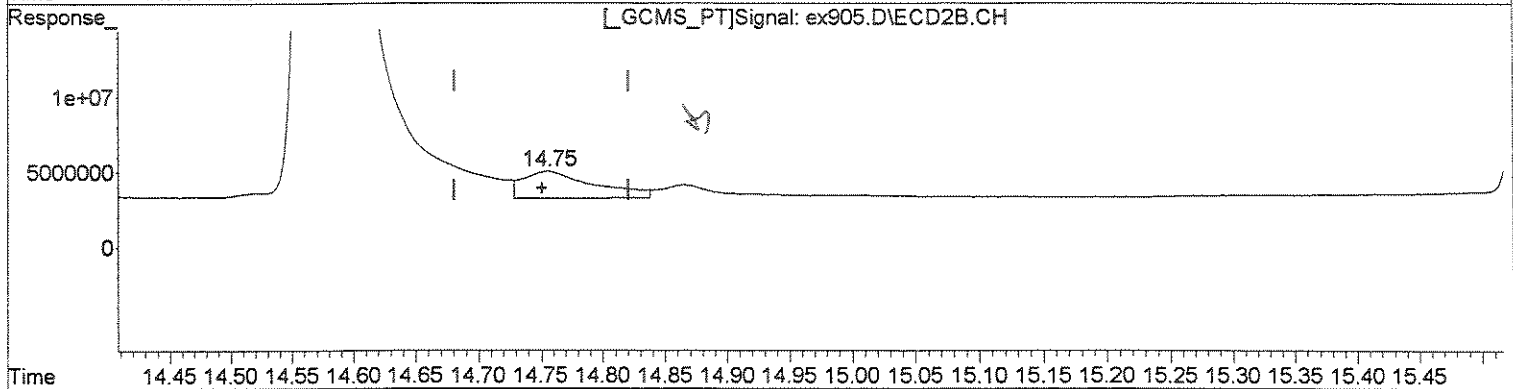
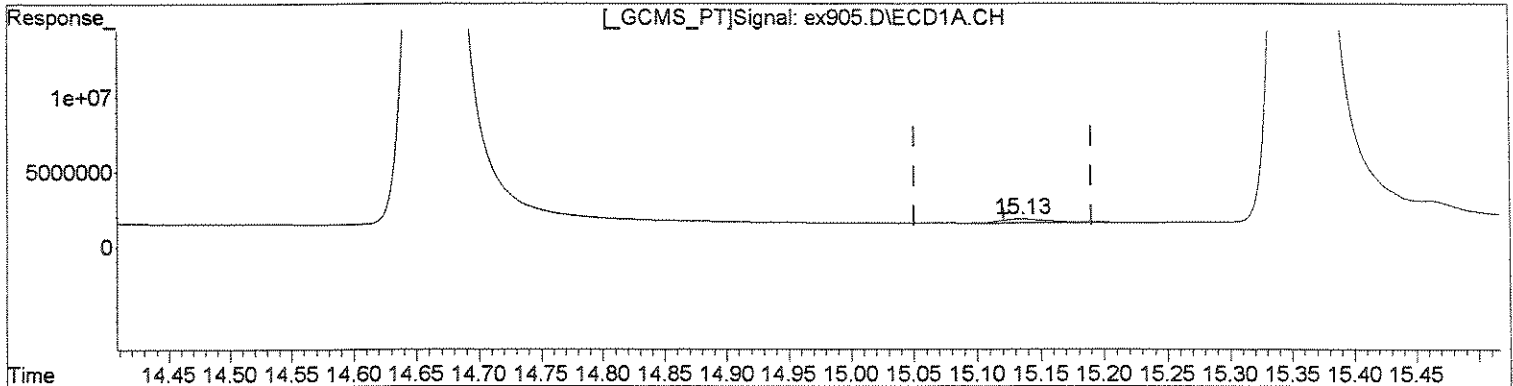
MP
7/1
MS
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 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 01 08:04:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
15.13min 0.528ug/l
response 7804969

(20) Endrin Aldeh #2 (tc)
14.75min 1.773ug/l
response 71335180

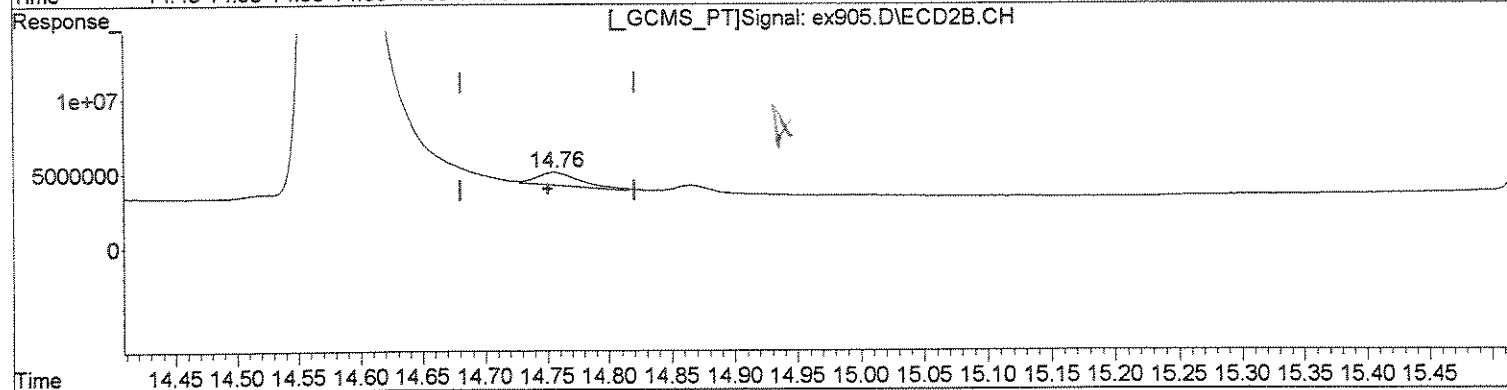
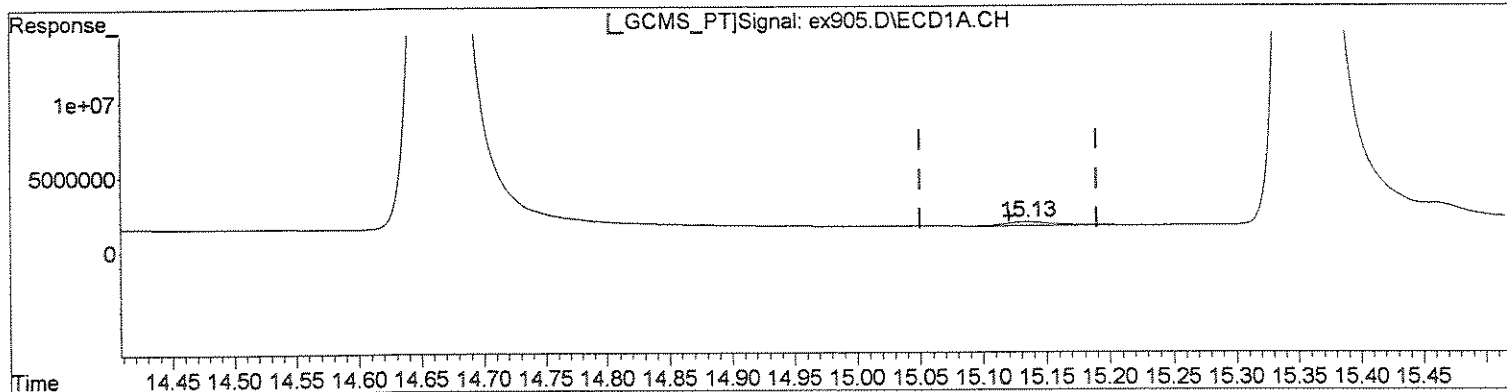
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 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 01 08:04:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
15.13min 0.528ug/l
response 7804969

(20) Endrin Aldeh #2 (tc)
14.76min 0.531ug/l m
response 21357844

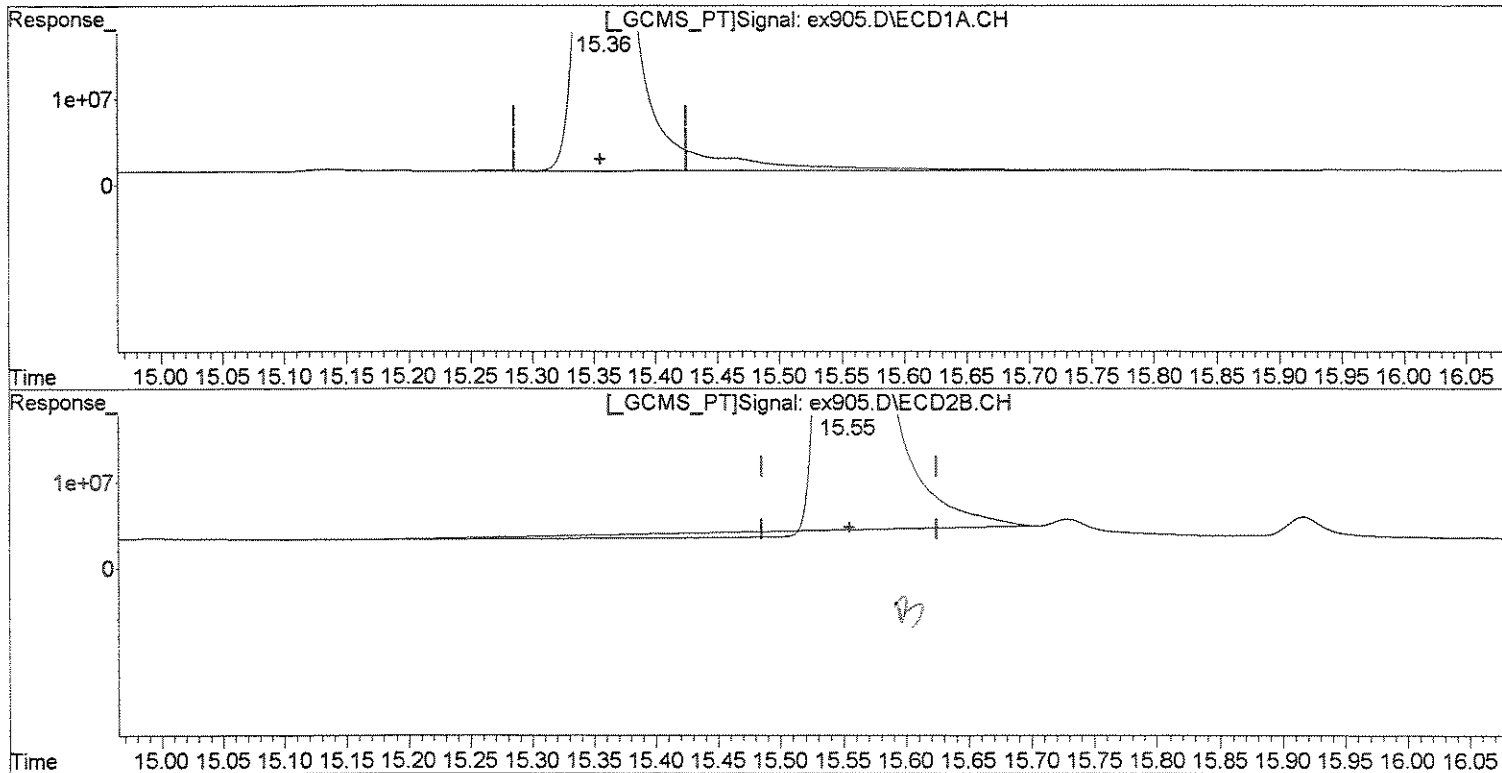
Handwritten notes:
Mw 7/1
6/7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 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 01 08:04:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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

(22) Methoxychlor (tc)
15.36min 230.544ug/l
response 2275426483

(22) Methoxychlor #2 (tc)
15.55min 218.850ug/l
response 5277720213

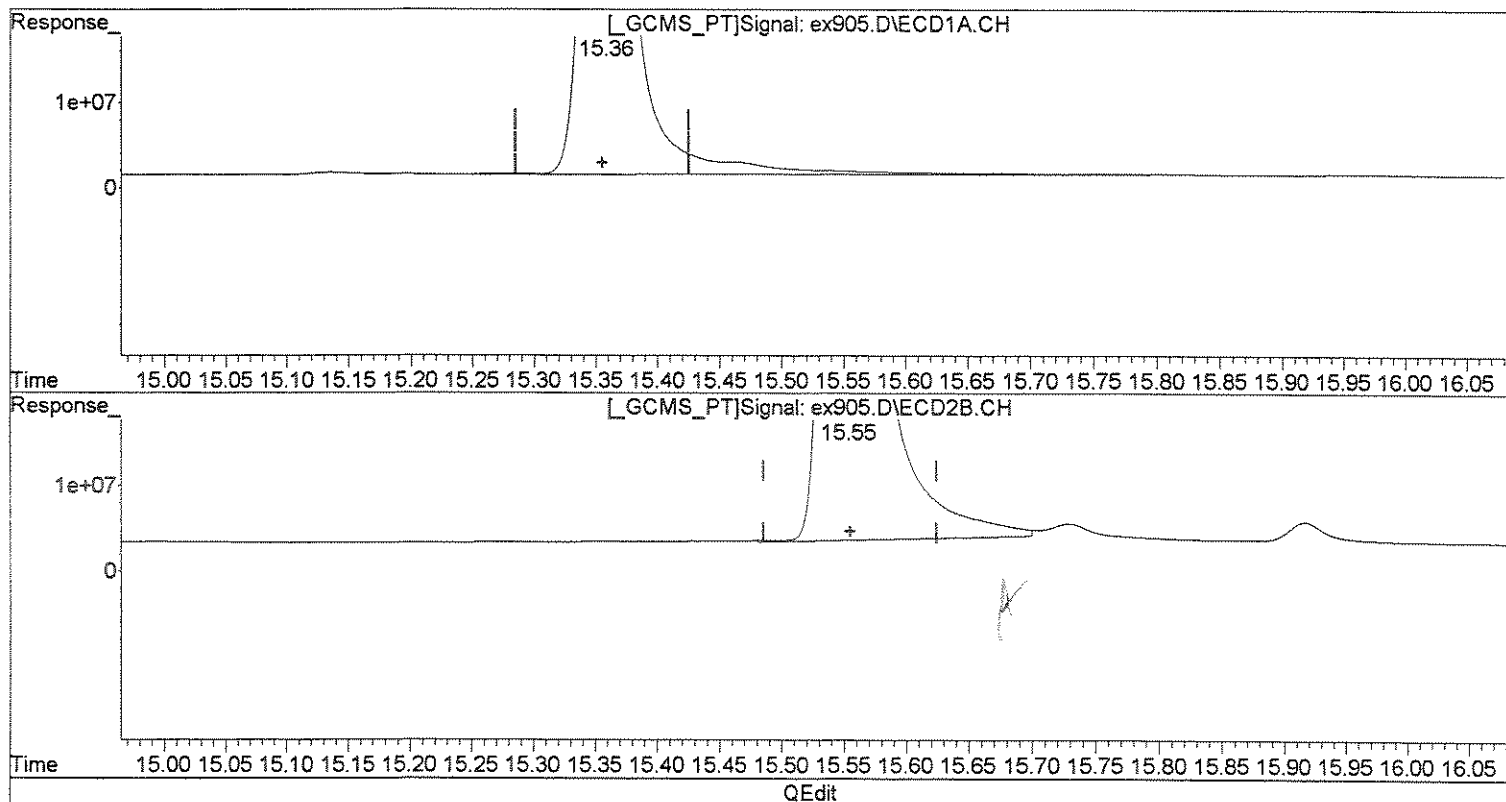
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:04 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 01 08:04:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(22) Methoxychlor (tc)
15.36min 230.544ug/l
response 2275426483

(22) Methoxychlor #2 (tc)
15.55min 225.455ug/l m
response 5437011775

WP
7/1

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:	07/11/2008
LAB Sample ID. (PEM):	PEM		Time Analyzed:	9:33
4,4'-DDT % Breakdown (1):	0.6%		Endrin % Breakdown (1):	1.9%
Combined % Breakdown (1):	2.5%			

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:	07/11/2008
LAB Sample ID. (PEM):	PEM		Time Analyzed:	9:33
4,4'-DDT % Breakdown (1):	1.2%		Endrin % Breakdown (1):	2.2%
Combined % Breakdown (1):	3.4%			

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\071008\
 Data File : ey065.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 9:33 am
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:07:14 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

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

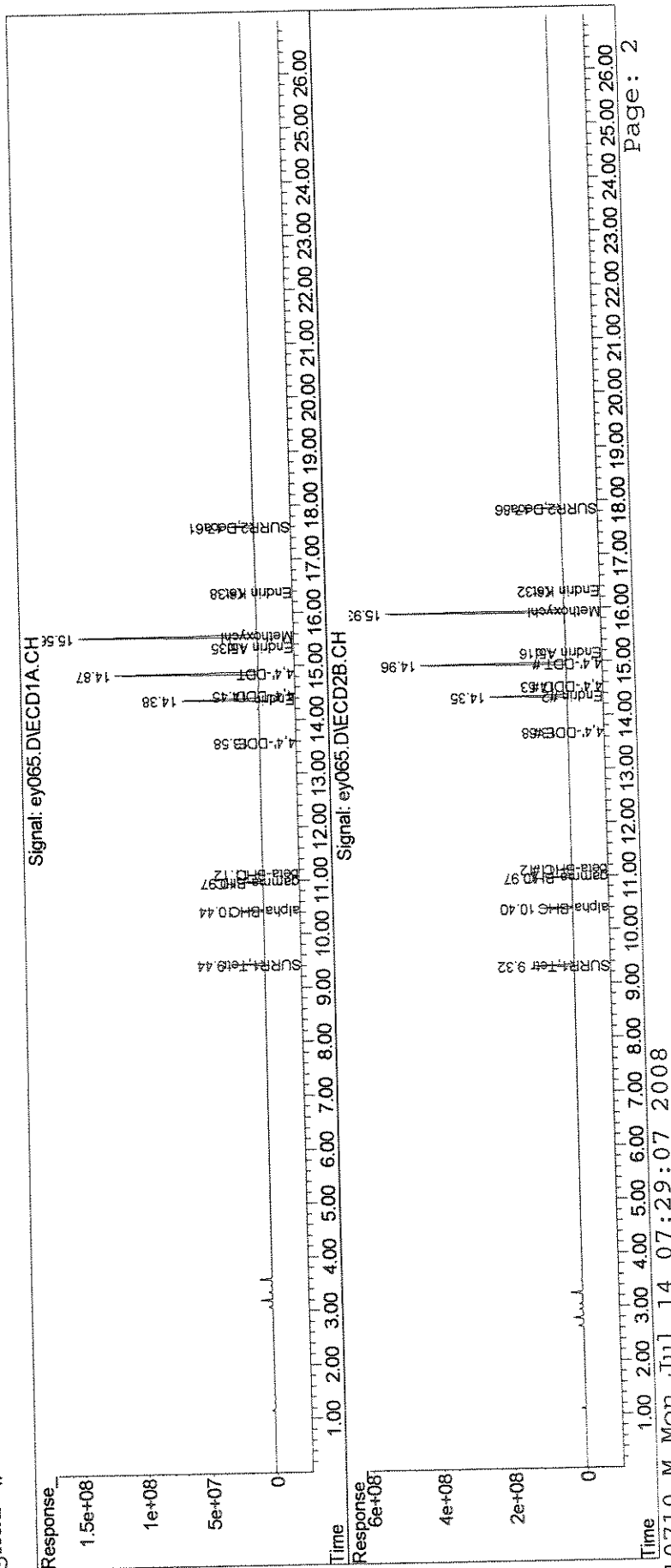
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	402.9E6	1719.0E6	19.964	21.244
Spiked Amount	100.000	Range	30 - 150	Recovery =	19.96%#	21.24%#
5) S SURR2,Decachloro	17.61	17.86	380.0E6	1234.6E6	21.760	22.416
Spiked Amount	100.000	Range	30 - 150	Recovery =	21.76%#	22.42%#
Target Compounds						
3) tc alpha-BHC	10.44	10.40	298.7E6	1279.9E6	9.661	10.785
4) tcm gamma-BHC (L	10.97	10.97	273.3E6	1123.8E6	9.688	10.695
7) tc beta-BHC	11.12	11.12	111.6E6	487.0E6	9.718	10.792
3) tc 4,4'-DDE	13.58	13.68	4110398	26197074	0.189	0.342 #
5) tcm Endrin	14.38	14.35	1055.9E6	3671.6E6	50.965	54.510
8) tc 4,4'-DDD	14.45	14.53	7932465	56792564	0.441m	0.912m#
9) tcm 4,4'-DDT	14.87	14.96	2029.5E6	7016.4E6	106.047	107.109
20) tc Endrin Aldehy	15.35	15.16	5608457	31222759	0.382	0.637 #
22) tc Methoxychlor	15.56	15.93	2476.3E6	8204.1E6	265.903	282.381
24) tc Endrin Keton	16.38	16.32	14935650	51672258	0.771	0.824
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.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey065.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 9:33 am
 Operator : M.PEDRO
 Sample : pem
 Misc : pest perform check
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:07:14 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

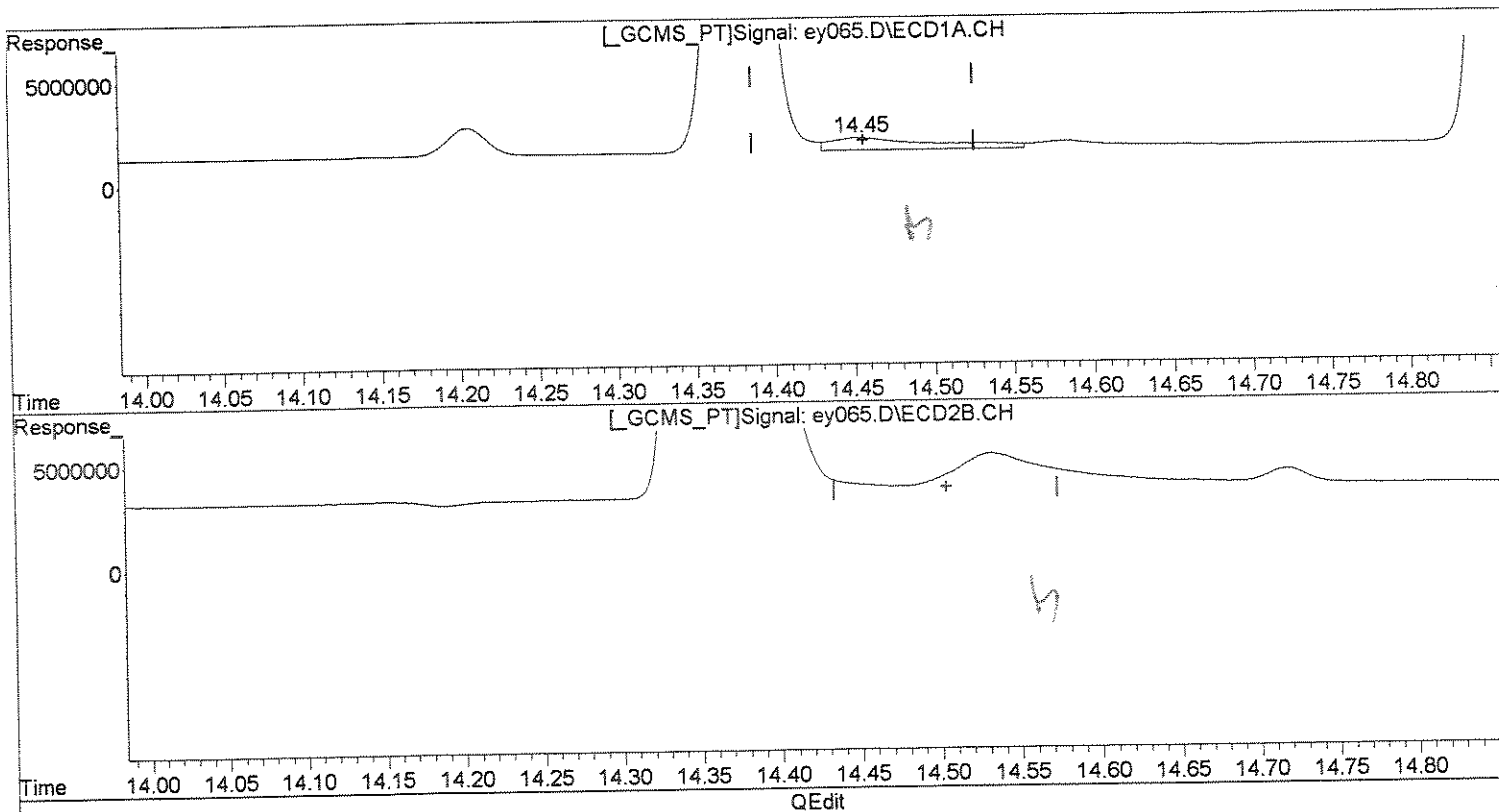


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey065.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 9:33 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:50:22 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



(18) 4,4'-DDD (tc)
14.45min 1.575ug/l
response 28346468

(18) 4,4'-DDD #2 (tc)
0.00min 0.000ug/l
response 0

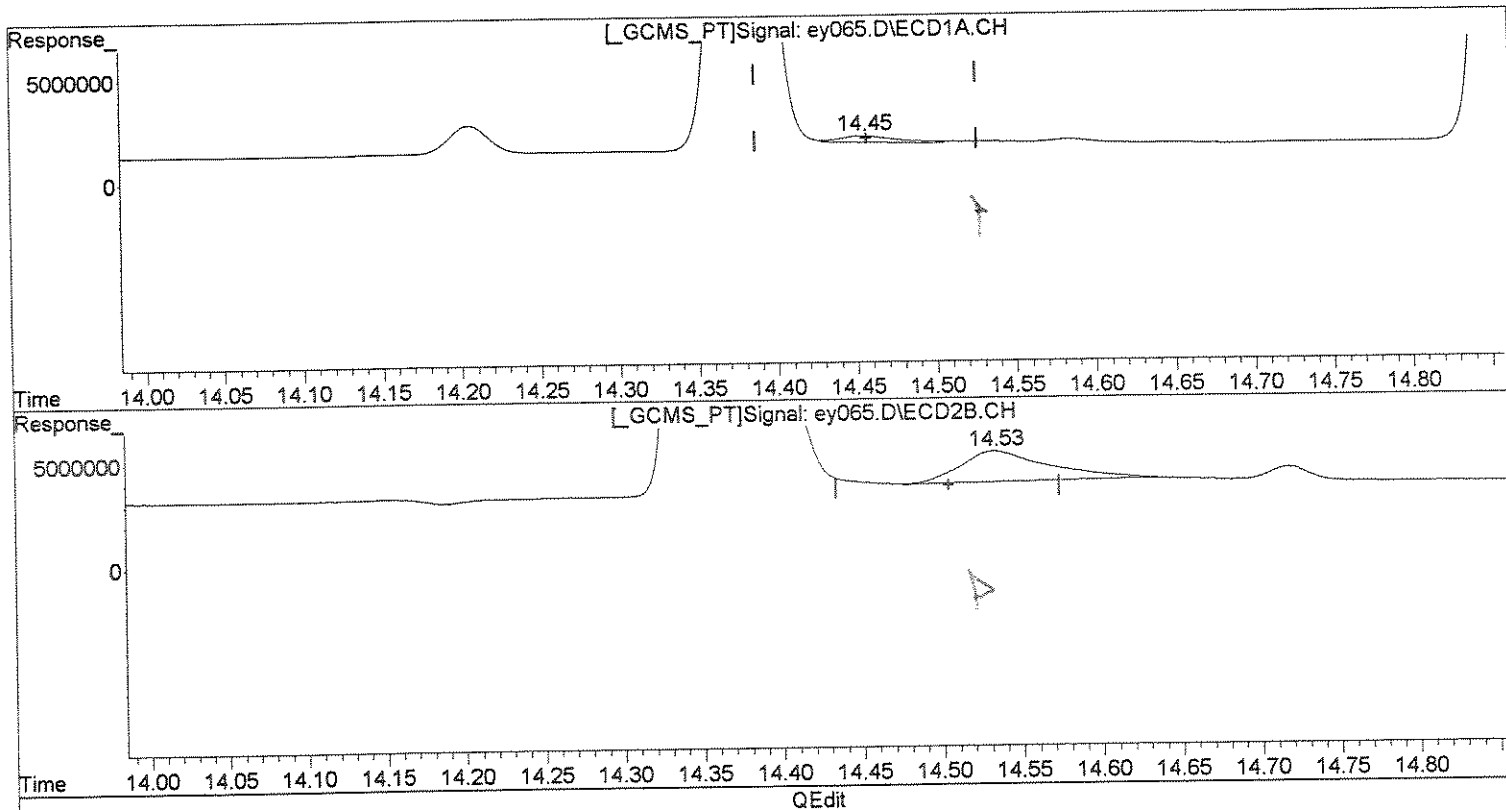
huff

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey065.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 9:33 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:50:22 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



(18) 4,4'-DDD (tc)
14.45min 0.441ug/l m
response 7932465

(18) 4,4'-DDD #2 (tc)
14.53min 0.912ug/l m
response 56792564

Handwritten: 14.45
7/14

Handwritten: 14.53
7/14

(+) = Expected Retention Time

8D
Pesticide Analytical Sequence

Lab Name: Columbia Analytical Client: ENSR
 Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG PB061608B
 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 9.28 DCB 17.42

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
indal	indal	6/2/2008	9:37	9.28	17.42
indaml	indaml	6/2/2008	10:12	9.29	17.42
indam	indam	6/2/2008	10:48	9.28	17.42
indamh	indamh	6/2/2008	11:23	9.28	17.42
indah	indah	6/2/2008	11:59	9.28	17.42
indbl	indbl	6/2/2008	12:34	9.28	17.42
indbml	indbml	6/2/2008	13:10	9.28	17.42
indbm	indbm	6/2/2008	13:46	9.28	17.42
indbmh	indbmh	6/2/2008	14:22	9.28	17.42
indbh	indbh	6/2/2008	14:57	9.28	17.42
kep/fam l	kep/fam l	6/2/2008	15:33	NA	NA
kep/fam ml	kep/fam ml	6/2/2008	16:08	NA	NA
kep/fam m	kep/fam m	6/2/2008	16:44	NA	NA
kep/fam mh	kep/fam mh	6/2/2008	17:20	NA	NA
kep/fam h	kep/fam h	6/2/2008	17:55	NA	NA
kep/fam icv	kep/fam icv	6/2/2008	18:31	NA	NA
tox l	tox l	6/2/2008	19:06	9.28	17.42
tox ml	tox ml	6/2/2008	19:43	9.29	17.42
tox m	tox m	6/2/2008	20:19	9.29	17.42
tox mh	tox mh	6/2/2008	20:54	9.29	17.42
tox h	tox h	6/2/2008	21:30	9.29	17.42

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.: R2844538 SAS No.: _____ SDG PB061608B
 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 9.28 DCB 17.42

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
chlor l	chlor l	6/2/2008	22:05	9.28	17.42
chlor ml	chlor ml	6/2/2008	22:41	9.28	17.42
chlor m	chlor m	6/2/2008	23:16	9.28	17.42
chlor mh	chlor mh	6/2/2008	23:53	9.28	17.42
chlor h	chlor h	6/3/2008	0:29	9.28	17.42
pest icv	pest icv	6/3/2008	1:05	NA	NA
tox icv	tox icv	6/3/2008	1:40	NA	NA
chlor icv	chlor icv	6/3/2008	2:16	NA	NA
pem	pem	6/24/2008	17:37	9.27	17.40
ccv24a	ccv24a	6/24/2008	18:12	9.27	17.40
ccv24b	ccv24b	6/24/2008	18:48	9.27	17.40
ZZZZZ	ZZZZZ	6/24/2008	19:23	9.27	17.40
PBLK1MS	1111770 1.0	6/24/2008	19:59	9.27	17.40
PBLK1MSD	1111771 1.0	6/24/2008	20:34	9.27	17.40
ZZZZZ	ZZZZZ	6/24/2008	21:10	9.27	17.40
ZZZZZ	ZZZZZ	6/24/2008	21:45	9.27	17.40
ZZZZZ	ZZZZZ	6/24/2008	22:21	9.27	17.40
ZZZZZ	ZZZZZ	6/24/2008	22:56	9.27	17.40
ZZZZZ	ZZZZZ	6/24/2008	23:32	9.27	17.40
ZZZZZ	ZZZZZ	6/25/2008	0:07	9.27	17.40
ZZZZZ	ZZZZZ	6/25/2008	0:43	9.27	17.40

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

Pesticide Analytical Sequence

Lab Name: Columbia Analytical Client: ENSR
 Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG PB061608B
 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 9.28 DCB 17.42

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
ccv25a	ccv25a	6/25/2008	1:19	9.27	17.40
ccv25b	ccv25b	6/25/2008	1:54	9.28	17.40
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/25/2008	2:30	9.27	17.40
PB061608B	1109708 1.0	6/25/2008	3:06	9.27	17.40
PC-40B	1110532 1.0	6/25/2008	3:41	9.27	17.40
PBLK1	1111769 1.0	6/25/2008	4:17	9.27	17.40
ccv26a	ccv26a	6/25/2008	4:53	9.28	17.40
ccv26b	ccv26b	6/25/2008	5:28	9.28	17.40
pem	pem	6/26/2008	8:27	9.28	17.41
ccv27a	ccv27a	6/26/2008	10:44	9.28	17.41
ccv27b	ccv27b	6/26/2008	11:19	9.28	17.40
PC-40B	1110532 20.0	6/26/2008	12:34	9.28	17.40
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/26/2008	13:20	9.28	17.40
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/26/2008	13:56	9.27	17.40
PC-37B	1111267 1.	6/26/2008	14:31	9.27	17.40
PC-72B	1111763 1.	6/26/2008	15:07	9.27	17.40
M-94BX	1111764 1.	6/26/2008	15:42	9.27	17.39
MC-62B	1111765 1.	6/26/2008	16:18	9.27	17.39
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/26/2008	16:53	9.27	17.40
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/26/2008	17:29	9.27	17.40
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/26/2008	18:04	9.27	17.40

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.: R2844538 SAS No.: _____ SDG PB061608B
 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 9.28 DCB 17.42

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
PBLK2	1112528 1.	6/26/2008	18:40	9.27	17.39
ccv28a	ccv28a	6/26/2008	19:15	9.28	17.40
ccv28b	ccv28b	6/26/2008	19:51	9.28	17.40
ZZZZZ	ZZZZZ	6/26/2008	20:26	9.27	17.40
PBLK2MS	1112529 1.	6/26/2008	21:02	9.27	17.40
PBLK2MSD	1112530 1.	6/26/2008	21:38	9.27	17.40
ZZZZZ	ZZZZZ	6/26/2008	22:13	9.27	17.40
ZZZZZ	ZZZZZ	6/26/2008	22:49	9.27	17.39
ZZZZZ	ZZZZZ	6/26/2008	23:24	9.27	17.39
ZZZZZ	ZZZZZ	6/27/2008	0:00	9.27	17.39
ZZZZZ	ZZZZZ	6/27/2008	0:36	9.27	17.39
H-48B	1110981 1.	6/27/2008	1:11	9.27	17.39
MC-66BD	1111264 1.	6/27/2008	1:47	9.27	17.40
ccv29a	ccv29a	6/27/2008	2:22	9.28	17.40
ccv29b	ccv29b	6/27/2008	2:58	9.28	17.40
pem	pem	6/30/2008	8:04	9.29	17.41
ccv30a	ccv30a	6/30/2008	8:39	9.28	17.40
ccv30b	ccv30b	6/30/2008	9:15	9.29	17.40
MC-62B	1111765 50.0	6/30/2008	9:50	D	D
ZZZZZ	ZZZZZ	6/30/2008	10:26	9.27	17.39
ZZZZZ	ZZZZZ	6/30/2008	11:01	9.27	17.39

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

Pesticide Analytical Sequence

Lab Name: Columbia Analytical **Client:** ENSR
Lab Code: 10145 **Case.No.:** R2844538 **SAS No.:** _____ **SDG** PB061608B
GC Column(I) 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	DCB		
TCX	9.28		17.42	TCX	DCB
<i>EPA Sample No.</i>	<i>Lab Sample ID</i>	<i>Date Analyzed</i>	<i>Time Analyzed</i>	<i>rt_time</i>	<i>rt_time</i>
ZZZZZ	ZZZZZ	6/30/2008	11:37	9.27	17.39
PBLK3	1113455 1.0	6/30/2008	12:29	9.28	17.40
PBLK3MS	1113456 1.0	6/30/2008	13:05	9.27	17.39
PBLK3MSD	1113457 1.0	6/30/2008	13:40	9.27	17.39
MC-65B	1111265 1.0	6/30/2008	14:16	9.27	17.39
MC-66B	1111266 1.0	6/30/2008	14:51	9.27	17.39
ccv31a	ccv31a	6/30/2008	15:27	9.28	17.39
ccv31b	ccv31b	6/30/2008	16:02	9.29	17.40

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

Pesticide Analytical Sequence

Lab Name: Columbia Analytical Services Client: ENSR
 Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B
 GC Column(1) STX-CLP (ID): 0.32mm 30
 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 Analyzed	Time Analyzed	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	0.00	0.00
kep/fam ml	kep/fam ml	7/10/2008	22:54	0.00	0.00
kep/fam m	kep/fam m	7/10/2008	23:30	0.00	0.00
kep/fam mh	kep/fam mh	7/11/2008	0:05	0.00	0.00
kep/fam h	kep/fam h	7/11/2008	0:41	0.00	0.00
kep/fam icv	kep/fam icv	7/11/2008	1:16	0.00	0.00
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 Limit

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an asterisk

* Values outside of QC limits

Pesticide Analytical Sequence

Lab Name: Columbia Analytical Services Client: ENSR
 Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

GC Column(1) STx-CLP (ID): 0.32mm 30

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

TCX DCB

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	rt_time	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	0.00	0.00
tox icv	tox icv	7/11/2008	8:22	0.00	0.00
chlor icv	chlor icv	7/11/2008	8:58	0.00	0.00
pem	pem	7/11/2008	9:33	9.44	17.61
ccv1a	ccv1a	7/11/2008	10:09	9.44	17.61
ccv1b	ccv1b	7/11/2008	10:44	9.44	17.61
MC-65B	1111265 2.0	7/11/2008	11:20	9.43	17.61
<i>ZZZZZ</i>	<i>ZZZZZ</i>	7/11/2008	11:56	9.44	17.61
<i>ZZZZZ</i>	<i>ZZZZZ</i>	7/11/2008	12:31	9.43	17.61
<i>ZZZZZ</i>	<i>ZZZZZ</i>	7/11/2008	13:07	9.43	17.61
<i>ZZZZZ</i>	<i>ZZZZZ</i>	7/11/2008	13:42	9.43	17.61
<i>ZZZZZ</i>	<i>ZZZZZ</i>	7/11/2008	14:18	9.43	17.61
<i>ZZZZZ</i>	<i>ZZZZZ</i>	7/11/2008	14:54	9.43	17.61
<i>ZZZZZ</i>	<i>ZZZZZ</i>	7/11/2008	15:29	0.00	0.00
<i>ZZZZZ</i>	<i>ZZZZZ</i>	7/11/2008	16:05	0.00	0.00
ccv2a	ccv2a	7/11/2008	16:41	9.43	17.61

QC Limit

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an asterisk

* Values outside of QC limits

Pesticide Analytical Sequence

Lab Name: Columbia Analytical Services Client: ENSR
 Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B
 GC Column(1) STx-CLP (ID): 0.32mm 30
 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

TCX DCB

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	rt_time	rt_time
ccv2b	ccv2b	7/11/2008	17:16	9.43	17.61

QC Limit

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an asterisk

* Values outside of QC limits

Pesticide Analytical Sequence

Lab Name: Columbia Analytical Contract: ENSR
 Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG PB061608B
 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 9.06 DCB 17.50

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
indal	indal	6/2/2008	9:37	9.06	17.50
indaml	indaml	6/2/2008	10:12	9.06	17.50
indam	indam	6/2/2008	10:48	9.06	17.50
indamh	indamh	6/2/2008	11:23	9.06	17.50
indah	indah	6/2/2008	11:59	9.06	17.50
indbl	indbl	6/2/2008	12:34	9.06	17.50
indbml	indbml	6/2/2008	13:10	9.06	17.50
indbm	indbm	6/2/2008	13:46	9.06	17.50
indbmh	indbmh	6/2/2008	14:22	9.06	17.50
indbh	indbh	6/2/2008	14:57	9.06	17.50
kep/fam l	kep/fam l	6/2/2008	15:33	NA	NA
kep/fam ml	kep/fam ml	6/2/2008	16:08	NA	NA
kep/fam m	kep/fam m	6/2/2008	16:44	NA	NA
kep/fam mh	kep/fam mh	6/2/2008	17:20	NA	NA
kep/fam h	kep/fam h	6/2/2008	17:55	NA	NA
kep/fam icv	kep/fam icv	6/2/2008	18:31	NA	NA
tox l	tox l	6/2/2008	19:06	9.06	17.50
tox ml	tox ml	6/2/2008	19:43	9.06	17.50
tox m	tox m	6/2/2008	20:19	9.06	17.50
tox mh	tox mh	6/2/2008	20:54	9.06	17.50
tox h	tox h	6/2/2008	21:30	9.06	17.50

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.: R2844538 SAS No.: _____ SDG PB061608B
 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 9.06 DCB 17.50

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
chlor l	chlor l	6/2/2008	22:05	9.06	17.50
chlor ml	chlor ml	6/2/2008	22:41	9.06	17.50
chlor m	chlor m	6/2/2008	23:16	9.06	17.50
chlor mh	chlor mh	6/2/2008	23:53	9.05	17.50
chlor h	chlor h	6/3/2008	0:29	9.05	17.50
pest icv	pest icv	6/3/2008	1:05	NA	NA
tox icv	tox icv	6/3/2008	1:40	NA	NA
chlor icv	chlor icv	6/3/2008	2:16	NA	NA
pem	pem	6/24/2008	17:37	9.04	17.47
ccv24a	ccv24a	6/24/2008	18:12	9.04	17.47
ccv24b	ccv24b	6/24/2008	18:48	9.04	17.47
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/24/2008	19:23	9.04	17.47
PBLK1MS	1111770 1.0	6/24/2008	19:59	9.04	17.47
PBLK1MSD	1111771 1.0	6/24/2008	20:34	9.04	17.47
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/24/2008	21:10	9.04	17.47
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/24/2008	21:45	9.04	17.47
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/24/2008	22:21	9.04	17.47
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/24/2008	22:56	9.04	17.47
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/24/2008	23:32	9.04	17.47
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/25/2008	0:07	9.04	17.47
<u>ZZZZZ</u>	<u>ZZZZZ</u>	6/25/2008	0:43	9.04	17.47

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.: R2844538 SAS No.: _____ SDG PB061608B
 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

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
				TCX 9.06	DCB 17.50
ccv25a	ccv25a	6/25/2008	1:19	9.04	17.47
ccv25b	ccv25b	6/25/2008	1:54	9.04	17.47
ZZZZZ	ZZZZZ	6/25/2008	2:30	9.04	17.47
PB061608B	1109708 1.0	6/25/2008	3:06	9.04	17.47
PC-40B	1110532 1.0	6/25/2008	3:41	9.04	17.47
PBLK1	1111769 1.0	6/25/2008	4:17	9.04	17.47
ccv26a	ccv26a	6/25/2008	4:53	9.04	17.47
ccv26b	ccv26b	6/25/2008	5:28	9.04	17.47
pem	pem	6/26/2008	8:27	9.04	17.47
ccv27a	ccv27a	6/26/2008	10:44	9.04	17.47
ccv27b	ccv27b	6/26/2008	11:19	9.04	17.47
PC-40B	1110532 20.0	6/26/2008	12:34	9.04	17.47
ZZZZZ	ZZZZZ	6/26/2008	13:20	9.04	17.47
ZZZZZ	ZZZZZ	6/26/2008	13:56	9.04	17.46
PC-37B	1111267 1.	6/26/2008	14:31	9.04	17.47
PC-72B	1111763 1.	6/26/2008	15:07	9.04	17.46
M-94BX	1111764 1.	6/26/2008	15:42	9.04	17.46
MC-62B	1111765 1.	6/26/2008	16:18	9.04	17.46
ZZZZZ	ZZZZZ	6/26/2008	16:53	9.03	17.46
ZZZZZ	ZZZZZ	6/26/2008	17:29	9.03	17.46
ZZZZZ	ZZZZZ	6/26/2008	18:04	9.03	17.46

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.: R2844538 SAS No.: _____ SDG PB061608B
 GC Column(1) STx-CLPH (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 9.06 DCB 17.50

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	TCX rt_time	DCB rt_time
PBLK2	1112528 1.	6/26/2008	18:40	9.04	17.46
ccv28a	ccv28a	6/26/2008	19:15	9.04	17.46
ccv28b	ccv28b	6/26/2008	19:51	9.04	17.47
ZZZZZ	ZZZZZ	6/26/2008	20:26	9.04	17.46
PBLK2MS	1112529 1.	6/26/2008	21:02	9.04	17.46
PBLK2MSD	1112530 1.	6/26/2008	21:38	9.04	17.46
ZZZZZ	ZZZZZ	6/26/2008	22:13	9.04	17.46
ZZZZZ	ZZZZZ	6/26/2008	22:49	9.04	17.46
ZZZZZ	ZZZZZ	6/26/2008	23:24	9.03	17.46
ZZZZZ	ZZZZZ	6/27/2008	0:00	9.03	17.46
ZZZZZ	ZZZZZ	6/27/2008	0:36	9.03	17.46
H-48B	1110981 1.	6/27/2008	1:11	9.03	17.46
MC-66BD	1111264 1.	6/27/2008	1:47	9.03	17.46
ccv29a	ccv29a	6/27/2008	2:22	9.04	17.46
ccv29b	ccv29b	6/27/2008	2:58	9.04	17.46
pem	pem	6/30/2008	8:04	9.05	17.47
ccv30a	ccv30a	6/30/2008	8:39	9.05	17.46
ccv30b	ccv30b	6/30/2008	9:15	9.05	17.46
MC-62B	1111765 50.0	6/30/2008	9:50	NA	NA
ZZZZZ	ZZZZZ	6/30/2008	10:26	9.03	17.46
ZZZZZ	ZZZZZ	6/30/2008	11:01	9.03	17.46

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.: R2844538 SAS No.: _____ SDG PB061608B
 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	DCB		
		9.06	17.50	TCX	DCB
EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	rt_time	rt_time
<i>ZZZZZ</i>	<i>ZZZZZ</i>	6/30/2008	11:37	9.03	17.46
PBLK3	1113455 1.0	6/30/2008	12:29	9.04	17.46
PBLK3MS	1113456 1.0	6/30/2008	13:05	9.03	17.46
PBLK3MSD	1113457 1.0	6/30/2008	13:40	9.03	17.46
MC-65B	1111265 1.0	6/30/2008	14:16	9.04	17.46
MC-66B	1111266 1.0	6/30/2008	14:51	9.04	17.46
ccv31a	ccv31a	6/30/2008	15:27	9.05	17.46
ccv31b	ccv31b	6/30/2008	16:02	9.05	17.46

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

Pesticide Analytical Sequence

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case No.:** R2844538 **SAS No.:** _____ **SDG No.:** PB061608B
GC Column(1) STx-CLPII **(ID):** 0.32mm 30
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

TCX DCB

<i>EPA Sample No.</i>	<i>Lab Sample ID</i>	<i>Date Analyzed</i>	<i>Time Analyzed</i>	<i>rt_time</i>	<i>rt_time</i>
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	0.00	0.00
kep/fam ml	kep/fam ml	7/10/2008	22:54	0.00	0.00
kep/fam m	kep/fam m	7/10/2008	23:30	0.00	0.00
kep/fam mh	kep/fam mh	7/11/2008	0:05	0.00	0.00
kep/fam h	kep/fam h	7/11/2008	0:41	0.00	0.00
kep/fam icv	kep/fam icv	7/11/2008	1:16	0.00	0.00
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 Limit

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an asterisk

* Values outside of QC limits

Pesticide Analytical Sequence

Lab Name: Columbia Analytical Services Contract: ENSR
 Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B
 GC Column(1) STx-CLPII (ID): 0.32mm 30
 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

TCX DCB

EPA Sample No.	Lab Sample ID	Date Analyzed	Time Analyzed	rt_time	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	0.00	0.00
tox icv	tox icv	7/11/2008	8:22	0.00	0.00
chlor icv	chlor icv	7/11/2008	8:58	0.00	0.00
pem	pem	7/11/2008	9:33	9.32	17.86
ccv1a	ccv1a	7/11/2008	10:09	9.32	17.86
ccv1b	ccv1b	7/11/2008	10:44	9.32	17.86
MC-65B	1111265 2.0	7/11/2008	11:20	9.32	17.86
ZZZZZ	ZZZZZ	7/11/2008	11:56	9.32	17.86
ZZZZZ	ZZZZZ	7/11/2008	12:31	9.32	17.86
ZZZZZ	ZZZZZ	7/11/2008	13:07	9.32	17.86
ZZZZZ	ZZZZZ	7/11/2008	13:42	9.32	17.86
ZZZZZ	ZZZZZ	7/11/2008	14:18	9.32	17.86
ZZZZZ	ZZZZZ	7/11/2008	14:54	9.32	17.86
ZZZZZ	ZZZZZ	7/11/2008	15:29	0.00	0.00
ZZZZZ	ZZZZZ	7/11/2008	16:05	0.00	17.86
ccv2a	ccv2a	7/11/2008	16:41	9.32	17.86

QC Limit

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an asterisk

* Values outside of QC limits

*Pesticide Analytical Sequence**Lab Name:* Columbia Analytical Services *Contract:* ENSR*Lab Code:* 10145 *Case.No.:* R2844538 *SAS No.:* _____ *SDG No.:* PB061608B*GC Column(1)* STx-CLPII *(ID):* 0.32mm 30*Instrument ID:* 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

<i>EPA Sample No.</i>	<i>Lab Sample ID</i>	<i>Date Analyzed</i>	<i>Time Analyzed</i>	<i>TCX</i>	<i>DCB</i>
ccv2b	ccv2b	7/11/2008	17:16	9.32	17.86

 QC Limit

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an asterisk

* Values outside of QC limits

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PC-40B

Lab Name: **Columbia Analytical Services** Contract: **ENSR**

Lab Code: **10145** Case.No.: **R2844538** SAS No.: _____ SDG No.: **PB061608B**

Lab Sample ID **1110532 1.0** Date analyzed: **6/25/2008**

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	10.27	10.23	10.33	3.06	
	2	10.10	10.07	10.17	2.36	25.79
delta-BHC	1	11.24	11.19	11.29	1.20	
	2	11.26	11.22	11.32	1.11	7.65
gamma-BHC (L	1	10.79	10.76	10.86	0.23	
	2	10.66	10.63	10.73	0.21	12.03

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PC-40B^{pl}

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1110532 20.0 Date analyzed: 6/26/2008

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	10.27	10.23	10.33	3.71	
	2	10.09	10.07	10.17	3.74	0.86
delta-BHC	1	11.24	11.19	11.29	1.19	
	2	11.26	11.22	11.32	1.30	9.12
gamma-BHC (L	1	10.80	10.76	10.86	0.36	
	2	10.66	10.63	10.73	0.27	28.75

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

H-48B

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1110981 1. Date analyzed: 6/27/2008

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

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>Aldrin</i>	<i>1</i>	11.97	11.96	12.06	0.03	
	<i>2</i>	11.77	11.76	11.86	0.03	12.02
<i>Dieldrin</i>	<i>1</i>	13.80	13.77	13.91	0.04	
	<i>2</i>	13.53	13.50	13.64	0.03	11.02
<i>Heptachlor E</i>	<i>1</i>	12.89	12.85	12.99	0.27	
	<i>2</i>	12.65	12.57	12.71	0.27	1.43

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

MC-66BD

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1111264 1. Date analyzed: 6/27/2008

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	10.26	10.23	10.33	0.08	
	2	10.09	10.07	10.17	0.09	9.74
delta-BHC	1	11.23	11.19	11.29	0.02	
	2	11.25	11.22	11.32	0.01	48.45
gamma-BHC (L)	1	10.79	10.76	10.86	0.03	
	2	10.65	10.63	10.73	0.03	6.94
Heptachlor E	1	12.89	12.85	12.99	0.02	
	2	12.65	12.57	12.71	0.02	3.17

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

MC-65B

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1111265 1.0 Date analyzed: 6/30/2008

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
<i>alpha-BHC</i>	1	10.26	10.23	10.33	0.41	
	2	10.09	10.07	10.17	0.39	5.31
<i>delta-BHC</i>	1	11.23	11.19	11.29	0.23	
	2	11.25	11.22	11.32	0.23	3.40
<i>gamma-BHC (L)</i>	1	10.79	10.76	10.86	0.06	
	2	10.65	10.63	10.73	0.06	3.90

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

MC-65B *bl*

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1111265 2.0 Date analyzed: 7/11/2008

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
<i>alpha-BHC</i>	1	10.44	10.39	10.49	0.52	
	2	10.40	10.35	10.45	0.50	2.90
<i>delta-BHC</i>	1	11.40	11.35	11.45	0.31	
	2	11.56	11.51	11.61	0.32	0.30
<i>gamma-BHC (L)</i>	1	10.97	10.92	11.02	0.08	
	2	10.97	10.92	11.02	0.08	2.33

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

MC-66B

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1111266 1.0 Date analyzed: 6/30/2008

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	10.26	10.23	10.33	0.08	
	2	10.09	10.07	10.17	0.09	8.47
gamma-BHC (L	1	10.79	10.76	10.86	0.03	
	2	10.65	10.63	10.73	0.03	2.77

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

PC-37B

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1111267 1. Date analyzed: 6/26/2008

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	10.26	10.23	10.33	0.01	
	2	10.09	10.07	10.17	0.01	53.99
delta-BHC	1	11.23	11.19	11.29	0.01	
	2	11.25	11.22	11.32	0.01	28.57

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PC-72B

Lab Name: **Columbia Analytical Services** Contract: **ENSR**

Lab Code: **10145** Case.No.: **R2844538** SAS No.: _____ SDG No.: **PB061608B**

Lab Sample ID **1111763 1.** Date analyzed: **6/26/2008**

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
Aldrin	1	11.97	11.96	12.06	0.03	
	2	11.78	11.76	11.86	0.02	5.22
alpha-BHC	1	10.26	10.23	10.33	0.02	
	2	10.09	10.07	10.17	0.03	29.26
delta-BHC	1	11.21	11.19	11.29	0.01	
	2	11.25	11.22	11.32	0.02	108.07

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

M-94BX

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1111764 1. Date analyzed: 6/26/2008

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
<i>alpha-BHC</i>	<i>1</i>	10.26	10.23	10.33	0.01	
	<i>2</i>	10.09	10.07	10.17	0.02	24.25

10A

*Pesticide Identification Summary
For Single Component Analytes*

NYSDEC Sample No.

MC-62B

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1111765 1. Date analyzed: 6/26/2008

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
Aldrin	1	12.00	11.96	12.06	0.08	
	2	11.76	11.76	11.86	0.06	24.86
alpha-BHC	1	10.27	10.23	10.33	6.29	
	2	10.10	10.07	10.17	3.19	65.34
beta-BHC	1	10.95	10.91	11.01	10.86	
	2	10.82	10.79	10.89	7.82	32.49
delta-BHC	1	11.23	11.19	11.29	2.49	
	2	11.25	11.22	11.32	2.26	9.99
gamma-BHC (L)	1	10.79	10.76	10.86	0.95	
	2	10.66	10.63	10.73	0.78	20.16
gamma-Chlord	1	13.09	13.03	13.17	0.28	
	2	12.89	12.84	12.98	0.32	15.78

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

MC-62B DL

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1111765 50.0 Date analyzed: 6/30/2008

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	10.27	10.23	10.33	11.17	
	2	10.09	10.07	10.17	11.17	0.00
beta-BHC	1	10.97	10.91	11.01	17.92	
	2	10.83	10.79	10.89	17.01	5.17
delta-BHC	1	11.24	11.19	11.29	2.81	
	2	11.26	11.22	11.32	3.19	12.50
gamma-BHC (L)	1	10.79	10.76	10.86	1.17	
	2	10.66	10.63	10.73	1.11	5.58

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLKIMS

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844538 **SAS No.:** _____ **SDG No.:** PB061608B
Lab Sample ID 1111770 1.0 **Date analyzed:** 6/24/2008
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

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
4,4'-DDD	1	14.25	14.20	14.34	0.18	
	2	14.14	14.10	14.24	0.17	2.77
4,4'-DDE	1	13.38	13.33	13.47	0.16	
	2	13.33	13.29	13.43	0.17	6.22
4,4'-DDT	1	14.65	14.60	14.74	0.15	
	2	14.58	14.54	14.68	0.15	2.68
Aldrin	1	11.99	11.96	12.06	0.14	
	2	11.78	11.76	11.86	0.15	1.38
alpha-BHC	1	10.27	10.23	10.33	0.18	
	2	10.10	10.07	10.17	0.19	9.64
alpha-Chlord	1	13.27	13.22	13.36	0.17	
	2	13.08	13.04	13.18	0.16	2.36
alpha-Endosu	1	13.47	13.42	13.56	0.18	
	2	13.15	13.11	13.25	0.18	0.27
beta-BHC	1	10.96	10.91	11.01	0.18	
	2	10.83	10.79	10.89	0.18	2.38
beta-Endosul	1	14.50	14.45	14.59	0.17	
	2	14.27	14.23	14.37	0.19	7.60
delta-BHC	1	11.23	11.19	11.29	0.16	
	2	11.26	11.22	11.32	0.15	6.31
Dieldrin	1	13.82	13.77	13.91	0.18	
	2	13.54	13.50	13.64	0.19	4.81

FORM X-CLP-PEST

00930

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK1MS

Lab Name: **Columbia Analytical Services** Contract: **ENSR**

Lab Code: **10145** Case.No.: **R2844538** SAS No.: _____ SDG No.: **PB061608B**

Lab Sample ID **1111770 1.0** Date analyzed: **6/24/2008**

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	15.76	15.72	15.86	0.17	
	2	15.16	15.12	15.26	0.17	1.00
Endrin	1	14.16	14.11	14.25	0.17	
	2	13.97	13.93	14.07	0.18	2.93
Endrin Aldehy	1	15.12	15.08	15.22	0.03	
	2	14.75	14.72	14.86	0.04	29.39
Endrin Keton	1	16.16	16.12	16.26	0.18	
	2	15.92	15.89	16.03	0.18	0.33
gamma-BHC (L	1	10.79	10.76	10.86	0.17	
	2	10.66	10.63	10.73	0.18	5.23
gamma-Chlord	1	13.08	13.03	13.17	0.17	
	2	12.88	12.84	12.98	0.17	4.05
Heptachlor	1	11.54	11.50	11.60	0.16	
	2	11.31	11.29	11.39	0.18	9.26
Heptachlor E	1	12.90	12.85	12.99	0.18	
	2	12.61	12.57	12.71	0.18	1.24
HEXACHLOROBE	1	9.97	9.91	10.05	0.39	
	2	9.85	9.80	9.94	0.38	3.51
Methoxychlor	1	15.34	15.30	15.44	0.94	
	2	15.55	15.52	15.66	0.96	2.06

FORM X-CLP-PEST

00931

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK1MSD

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844538 **SAS No.:** _____ **SDG No.:** PB061608B
Lab Sample ID 1111771 1.0 **Date analyzed:** 6/24/2008
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

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
4,4'-DDD	1	14.25	14.20	14.34	0.17	
	2	14.14	14.10	14.24	0.17	1.00
4,4'-DDE	1	13.38	13.33	13.47	0.16	
	2	13.33	13.29	13.43	0.17	6.08
4,4'-DDT	1	14.65	14.60	14.74	0.15	
	2	14.58	14.54	14.68	0.16	1.03
Aldrin	1	11.99	11.96	12.06	0.14	
	2	11.78	11.76	11.86	0.14	1.32
alpha-BHC	1	10.27	10.23	10.33	0.18	
	2	10.09	10.07	10.17	0.19	9.79
alpha-Chlord	1	13.27	13.22	13.36	0.17	
	2	13.08	13.04	13.18	0.16	1.93
alpha-Endosu	1	13.47	13.42	13.56	0.18	
	2	13.15	13.11	13.25	0.18	0.60
beta-BHC	1	10.96	10.91	11.01	0.18	
	2	10.82	10.79	10.89	0.19	6.51
beta-Endosul	1	14.49	14.45	14.59	0.17	
	2	14.27	14.23	14.37	0.18	8.83
delta-BHC	1	11.23	11.19	11.29	0.15	
	2	11.25	11.22	11.32	0.14	5.66
Dieldrin	1	13.82	13.77	13.91	0.18	
	2	13.54	13.50	13.64	0.19	4.29

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK1MSD

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1111771 1.0 Date analyzed: 6/24/2008

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	15.76	15.72	15.86	0.17	
	2	15.16	15.12	15.26	0.17	0.47
Endrin	1	14.16	14.11	14.25	0.18	
	2	13.97	13.93	14.07	0.18	3.07
Endrin Aldehy	1	15.12	15.08	15.22	0.03	
	2	14.75	14.72	14.86	0.04	32.58
Endrin Keton	1	16.16	16.12	16.26	0.18	
	2	15.92	15.89	16.03	0.18	0.33
gamma-BHC (L	1	10.79	10.76	10.86	0.17	
	2	10.66	10.63	10.73	0.18	5.17
gamma-Chlord	1	13.08	13.03	13.17	0.17	
	2	12.88	12.84	12.98	0.17	3.51
Heptachlor	1	11.54	11.50	11.60	0.16	
	2	11.31	11.29	11.39	0.18	9.26
Heptachlor E	1	12.90	12.85	12.99	0.18	
	2	12.61	12.57	12.71	0.18	0.73
HEXACHLOROBE	1	9.97	9.91	10.05	0.39	
	2	9.85	9.80	9.94	0.37	3.35
Methoxychlor	1	15.34	15.30	15.44	0.96	
	2	15.55	15.52	15.66	0.98	2.07

FORM X-CLP-PEST

009333

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK2MS

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844538 **SAS No.:** _____ **SDG No.:** PB061608B
Lab Sample ID 1112529 1. **Date analyzed:** 6/26/2008
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

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
4,4'-DDD	1	14.25	14.20	14.34	0.18	
	2	14.14	14.10	14.24	0.17	5.50
4,4'-DDE	1	13.38	13.33	13.47	0.16	
	2	13.33	13.29	13.43	0.16	0.37
4,4'-DDT	1	14.65	14.60	14.74	0.18	
	2	14.57	14.54	14.68	0.16	8.01
Aldrin	1	11.99	11.96	12.06	0.14	
	2	11.78	11.76	11.86	0.14	0.49
alpha-BHC	1	10.27	10.23	10.33	0.19	
	2	10.09	10.07	10.17	0.20	8.27
alpha-Chlord	1	13.27	13.22	13.36	0.17	
	2	13.08	13.04	13.18	0.16	6.97
alpha-Endosu	1	13.47	13.42	13.56	0.20	
	2	13.15	13.11	13.25	0.19	2.60
beta-BHC	1	10.96	10.91	11.01	0.20	
	2	10.82	10.79	10.89	0.21	3.13
beta-Endosul	1	14.49	14.45	14.59	0.18	
	2	14.27	14.23	14.37	0.19	5.63
delta-BHC	1	11.23	11.19	11.29	0.17	
	2	11.25	11.22	11.32	0.15	8.84
Dieldrin	1	13.82	13.77	13.91	0.19	
	2	13.53	13.50	13.64	0.19	2.59

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK2MS

Lab Name: Columbia Analytical Services **Contract:** ENSR

Lab Code: 10145 **Case.No.:** R2844538 **SAS No.:** _____ **SDG No.:** PB061608B

Lab Sample ID 1112529 1. **Date analyzed:** 6/26/2008

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

<i>Analyte</i>	<i>Column</i>	<i>RT</i>	<i>From</i>	<i>To</i>	<i>Concentration</i>	<i>%RPD</i>
<i>Endosulfan S</i>	<i>1</i>	15.76	15.72	15.86	0.18	
	<i>2</i>	15.15	15.12	15.26	0.17	3.33
<i>Endrin</i>	<i>1</i>	14.16	14.11	14.25	0.19	
	<i>2</i>	13.96	13.93	14.07	0.19	0.37
<i>Endrin Aldeh</i>	<i>1</i>	15.12	15.08	15.22	0.16	
	<i>2</i>	14.75	14.72	14.86	0.16	2.59
<i>Endrin Keton</i>	<i>1</i>	16.16	16.12	16.26	0.19	
	<i>2</i>	15.92	15.89	16.03	0.18	4.02
<i>gamma-BHC (L</i>	<i>1</i>	10.79	10.76	10.86	0.19	
	<i>2</i>	10.66	10.63	10.73	0.19	4.47
<i>gamma-Chlord</i>	<i>1</i>	13.08	13.03	13.17	0.18	
	<i>2</i>	12.87	12.84	12.98	0.17	7.31
<i>Heptachlor</i>	<i>1</i>	11.54	11.50	11.60	0.17	
	<i>2</i>	11.31	11.29	11.39	0.18	7.85
<i>Heptachlor E</i>	<i>1</i>	12.89	12.85	12.99	0.19	
	<i>2</i>	12.60	12.57	12.71	0.19	0.21
<i>HEXACHLOROBE</i>	<i>1</i>	9.97	9.91	10.05	0.41	
	<i>2</i>	9.85	9.80	9.94	0.39	3.80
<i>Methoxychlor</i>	<i>1</i>	15.34	15.30	15.44	1.02	
	<i>2</i>	15.55	15.52	15.66	1.02	0.13

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK2MSD

Lab Name: **Columbia Analytical Services** Contract: **ENSR**

Lab Code: **10145** Case.No.: **R2844538** SAS No.: _____ SDG No.: **PB061608B**

Lab Sample ID **1112530 1.** Date analyzed: **6/26/2008**

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	14.25	14.20	14.34	0.18	
	2	14.14	14.10	14.24	0.17	4.24
4,4'-DDE	1	13.38	13.33	13.47	0.16	
	2	13.33	13.29	13.43	0.17	2.55
4,4'-DDT	1	14.65	14.60	14.74	0.16	
	2	14.57	14.54	14.68	0.16	0.56
Aldrin	1	11.99	11.96	12.06	0.15	
	2	11.78	11.76	11.86	0.15	1.23
alpha-BHC	1	10.27	10.23	10.33	0.19	
	2	10.09	10.07	10.17	0.20	8.61
alpha-Chlord	1	13.27	13.22	13.36	0.18	
	2	13.08	13.04	13.18	0.16	7.04
alpha-Endosu	1	13.47	13.42	13.56	0.20	
	2	13.15	13.11	13.25	0.19	2.93
beta-BHC	1	10.96	10.91	11.01	0.20	
	2	10.82	10.79	10.89	0.21	2.56
beta-Endosul	1	14.49	14.45	14.59	0.18	
	2	14.27	14.23	14.37	0.19	4.28
delta-BHC	1	11.23	11.19	11.29	0.17	
	2	11.25	11.22	11.32	0.15	9.94
Dieldrin	1	13.82	13.77	13.91	0.19	
	2	13.53	13.50	13.64	0.19	2.16

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK2MSD

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1112530 1. Date analyzed: 6/26/2008

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	15.76	15.72	15.86	0.18	
	2	15.15	15.12	15.26	0.17	2.39
Endrin	1	14.16	14.11	14.25	0.19	
	2	13.96	13.93	14.07	0.19	0.21
Endrin Aldehy	1	15.12	15.08	15.22	0.15	
	2	14.75	14.72	14.86	0.15	1.90
Endrin Keton	1	16.16	16.12	16.26	0.18	
	2	15.91	15.89	16.03	0.18	2.58
gamma-BHC (L	1	10.79	10.76	10.86	0.18	
	2	10.66	10.63	10.73	0.19	4.87
gamma-Chlord	1	13.08	13.03	13.17	0.18	
	2	12.87	12.84	12.98	0.17	6.88
Heptachlor	1	11.53	11.50	11.60	0.17	
	2	11.31	11.29	11.39	0.19	8.59
Heptachlor E	1	12.89	12.85	12.99	0.19	
	2	12.60	12.57	12.71	0.19	0.05
HEXACHLOROBE	1	9.97	9.91	10.05	0.41	
	2	9.85	9.80	9.94	0.40	3.40
Methoxychlor	1	15.35	15.30	15.44	1.01	
	2	15.55	15.52	15.66	1.01	0.17

FORM X-CLP-PEST

00937

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK3MS

Lab Name: Columbia Analytical Services **Contract:** ENSR
Lab Code: 10145 **Case.No.:** R2844538 **SAS No.:** _____ **SDG No.:** PB061608B
Lab Sample ID 1113456 1.0 **Date analyzed:** 6/30/2008
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	14.25	14.20	14.34	0.08	
	2	14.13	14.10	14.24	0.08	2.47
4,4'-DDE	1	13.38	13.33	13.47	0.07	
	2	13.33	13.29	13.43	0.08	7.81
4,4'-DDT	1	14.65	14.60	14.74	0.08	
	2	14.57	14.54	14.68	0.08	6.15
Aldrin	1	11.99	11.96	12.06	0.06	
	2	11.77	11.76	11.86	0.06	2.23
alpha-BHC	1	10.26	10.23	10.33	0.07	
	2	10.09	10.07	10.17	0.07	3.82
alpha-Chlord	1	13.27	13.22	13.36	0.08	
	2	13.07	13.04	13.18	0.08	4.37
alpha-Endosu	1	13.47	13.42	13.56	0.09	
	2	13.15	13.11	13.25	0.09	1.08
beta-BHC	1	10.96	10.91	11.01	0.08	
	2	10.82	10.79	10.89	0.07	15.21
beta-Endosul	1	14.49	14.45	14.59	0.08	
	2	14.26	14.23	14.37	0.09	10.32
delta-BHC	1	11.23	11.19	11.29	0.07	
	2	11.25	11.22	11.32	0.07	8.54
Dieldrin	1	13.82	13.77	13.91	0.09	
	2	13.53	13.50	13.64	0.09	8.17

10A

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK3MS

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1113456 1.0 Date analyzed: 6/30/2008

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
<i>Endosulfan S</i>	1	15.76	15.72	15.86	0.08	
	2	15.15	15.12	15.26	0.08	2.89
<i>Endrin</i>	1	14.16	14.11	14.25	0.09	
	2	13.96	13.93	14.07	0.09	2.76
<i>Endrin Aldehy</i>	1	15.12	15.08	15.22	0.06	
	2	14.74	14.72	14.86	0.07	18.07
<i>Endrin Keton</i>	1	16.16	16.12	16.26	0.08	
	2	15.91	15.89	16.03	0.08	0.43
<i>gamma-BHC (L</i>	1	10.79	10.76	10.86	0.08	
	2	10.65	10.63	10.73	0.08	2.94
<i>gamma-Chlord</i>	1	13.08	13.03	13.17	0.08	
	2	12.87	12.84	12.98	0.07	4.20
<i>Heptachlor</i>	1	11.53	11.50	11.60	0.07	
	2	11.31	11.29	11.39	0.08	9.97
<i>Heptachlor E</i>	1	12.89	12.85	12.99	0.08	
	2	12.60	12.57	12.71	0.08	3.07
<i>HEXACHLOROBE</i>	1	9.97	9.91	10.05	0.19	
	2	9.85	9.80	9.94	0.18	4.70
<i>Methoxychlor</i>	1	15.34	15.30	15.44	0.46	
	2	15.55	15.52	15.66	0.47	2.94

FORM X-CLP-PEST

00939

**Pesticide Identification Summary
For Single Component Analytes**

NYSDEC Sample No.

PBLK3MSD

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1113457 1.0 Date analyzed: 6/30/2008

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	14.24	14.20	14.34	0.10	
	2	14.13	14.10	14.24	0.10	1.42
4,4'-DDE	1	13.38	13.33	13.47	0.09	
	2	13.33	13.29	13.43	0.09	1.84
4,4'-DDT	1	14.65	14.60	14.74	0.11	
	2	14.57	14.54	14.68	0.11	2.61
Aldrin	1	11.99	11.96	12.06	0.08	
	2	11.77	11.76	11.86	0.08	1.56
alpha-BHC	1	10.26	10.23	10.33	0.10	
	2	10.09	10.07	10.17	0.09	5.24
alpha-Chlord	1	13.27	13.22	13.36	0.10	
	2	13.07	13.04	13.18	0.09	7.02
alpha-Endosu	1	13.47	13.42	13.56	0.10	
	2	13.15	13.11	13.25	0.10	4.25
beta-BHC	1	10.96	10.91	11.01	0.09	
	2	10.82	10.79	10.89	0.09	2.68
beta-Endosul	1	14.49	14.45	14.59	0.10	
	2	14.26	14.23	14.37	0.11	5.82
delta-BHC	1	11.23	11.19	11.29	0.09	
	2	11.25	11.22	11.32	0.08	10.52
Dieldrin	1	13.81	13.77	13.91	0.11	
	2	13.53	13.50	13.64	0.11	3.49

10A

Pesticide Identification Summary
For Single Component Analytes

NYSDEC Sample No.

PBLK3MSD

Lab Name: Columbia Analytical Services Contract: ENSR

Lab Code: 10145 Case.No.: R2844538 SAS No.: _____ SDG No.: PB061608B

Lab Sample ID 1113457 1.0 Date analyzed: 6/30/2008

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	15.76	15.72	15.86	0.10	
	2	15.15	15.12	15.26	0.10	1.49
Endrin	1	14.16	14.11	14.25	0.11	
	2	13.96	13.93	14.07	0.11	0.60
Endrin Aldehy	1	15.12	15.08	15.22	0.07	
	2	14.75	14.72	14.86	0.10	31.12
Endrin Keton	1	16.16	16.12	16.26	0.10	
	2	15.91	15.89	16.03	0.10	0.29
gamma-BHC (L	1	10.79	10.76	10.86	0.10	
	2	10.65	10.63	10.73	0.10	1.02
gamma-Chlord	1	13.08	13.03	13.17	0.10	
	2	12.87	12.84	12.98	0.09	11.21
Heptachlor	1	11.53	11.50	11.60	0.09	
	2	11.31	11.29	11.39	0.09	5.41
Heptachlor E	1	12.89	12.85	12.99	0.10	
	2	12.60	12.57	12.71	0.10	2.83
HEXACHLOROBE	1	9.97	9.91	10.05	0.21	
	2	9.85	9.80	9.94	0.20	3.20
Methoxychlor	1	15.34	15.30	15.44	0.58	
	2	15.55	15.52	15.66	0.60	2.79

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex851.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 6:12 pm
 Operator : M.PEDRO
 Sample : ccv24a
 Misc : indam
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:11:10 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	18.833	18.443 E6	2.1	100	-0.01
3 tc alpha-BHC	30.031	29.694 E6	1.1	99	-0.02
4 tcm gamma-BHC (L	27.489	26.872 E6	2.2	98	-0.02
5 tcm Heptachlor	26.908	26.825 E6	0.3	100	-0.02
10 tc alpha-Endosu	20.604	20.161 E6	2.2	99	-0.02
14 tcm Dieldrin	23.283	23.081 E6	0.9	98	-0.02
15 tcm Endrin	20.860	20.300 E6	2.7	97	-0.02
18 tc 4,4'-DDD	18.810	18.159 E6	3.5	97	-0.02
19 tcm 4,4'-DDT	20.032	18.473 E6	7.8	92	-0.02
22 tc Methoxychlor	9.870	9.328 E6	5.5	94	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	17.175 E6	-0.6	102	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	60.152 E6	1.4	99	-0.02
3 tc alpha-BHC	92.467	94.189 E6	-1.9	101	-0.02
4 tcm gamma-BHC (L	82.157	84.329 E6	-2.6	103	-0.02
5 tcm Heptachlor	79.864	80.684 E6	-1.0	100	-0.03
10 tc alpha-Endosu	59.586	58.088 E6	2.5	97	-0.03
14 tcm Dieldrin	65.254	62.839 E6	3.7	95	-0.03
15 tcm Endrin	56.721	55.407 E6	2.3	97	-0.03
18 tc 4,4'-DDD	51.629	49.224 E6	4.7	94	-0.03
19 tcm 4,4'-DDT	54.800	49.597 E6	9.5	90	-0.03
22 tc Methoxychlor	24.116	22.977 E6	4.7	95	-0.03
25 S SURR2,Decachlorobiphenyl	43.651	39.203 E6	10.2	91	-0.03

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex851.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 6:12 pm
 Operator : M.PEDRO
 Sample : ccv24a
 Misc : indam
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:11:10 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	9.27	9.04	368.9E6	1203.0E6	19.586	19.717
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.59%#	19.72%#
25) S SURR2,Decachloro	17.40	17.47	687.0E6	1568.1E6	40.221	35.924
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.22%	35.92%
Target Compounds						
3) tc alpha-BHC	10.27	10.10	593.9E6	1883.8E6	19.776	20.373
4) tcm gamma-BHC (L	10.79	10.66	537.4E6	1686.6E6	19.551	20.529
5) tcm Heptachlor	11.54	11.31	536.5E6	1613.7E6	19.938	20.205
10) tc alpha-Endosu	13.47	13.15	403.2E6	1161.8E6	19.571	19.497
14) tcm Dieldrin	13.82	13.54	923.2E6	2513.6E6	39.652	38.520
15) tcm Endrin	14.16	13.97	812.0E6	2216.3E6	38.927	39.073
18) tc 4,4'-DDD	14.25	14.14	726.3E6	1968.9E6	38.616	38.136
19) tcm 4,4'-DDT	14.65	14.58	738.9E6	1983.9E6	36.887	36.203
22) tc Methoxychlor	15.35	15.55	1865.6E6	4595.3E6	189.017	190.553
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

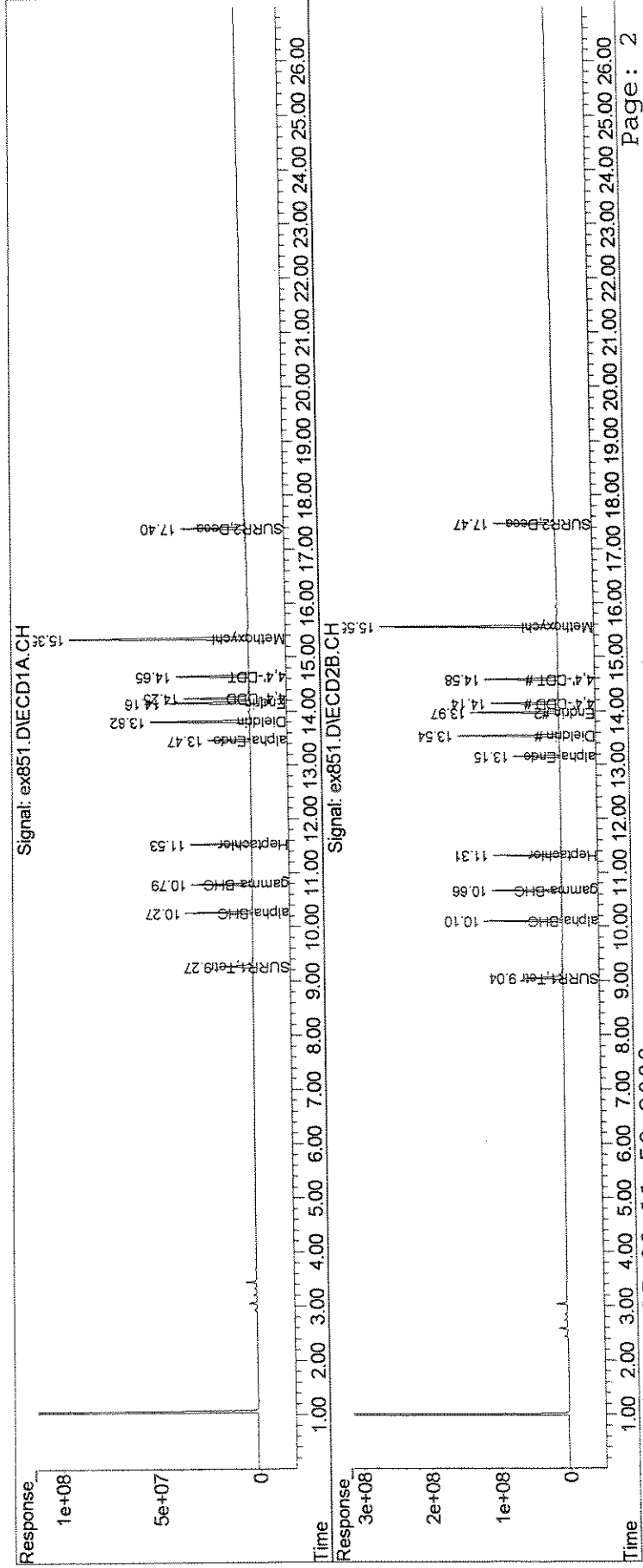
my 6/25

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex851.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 6:12 pm
 Operator : M.PEDRO
 Sample : ccv24a
 Misc : indam
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:11:10 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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\062408\
 Data File : ex852.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 6:48 pm
 Operator : M.PEDRO
 Sample : ccv24b
 Misc : indbm
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:12:46 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	18.833	18.363 E6	2.5	99	-0.01
6 tcm Aldrin	24.613	23.156 E6	5.9	94	-0.02
7 tc beta-BHC	11.546	10.487 E6	9.2	91	0.00
8 TC delta-BHC	27.657	24.226 E6	12.4	86	0.00
9 tc Heptachlor E	23.041	21.384 E6	7.2	93	-0.02
11 tc gamma-Chlord	22.791	20.394 E6	10.5	90	-0.02
12 tc alpha-Chlord	22.346	19.986 E6	10.6	90	-0.02
13 tc 4,4'-DDE	22.482	19.929 E6	11.4	88	-0.02
17 tc beta-Endosul	19.657	18.059 E6	8.1	91	-0.02
20 tc Endrin Aldeh	14.779	13.964 E6	5.5	94	-0.03
21 tc Endosulfan S	18.138	16.280 E6	10.2	89	-0.03
24 tc Endrin Keton	20.882	18.698 E6	10.5	89	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	16.850 E6	1.3	100	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	61.871 E6	-1.4	102	-0.02
6 tcm Aldrin	74.947	70.167 E6	6.4	93	-0.03
7 tc beta-BHC	35.673	33.745 E6	5.4	95	-0.01
8 tc delta-BHC	83.093	74.286 E6	10.6	88	-0.02
9 tc Heptachlor E	67.193	61.722 E6	8.1	91	-0.03
11 tc gamma-Chlord	69.724	61.240 E6	12.2	87	-0.03
12 tc alpha-Chlord	66.415	58.897 E6	11.3	88	-0.03
13 tc 4,4'-DDE	65.177	57.665 E6	11.5	87	-0.03
17 tc beta-Endosul	54.846	49.301 E6	10.1	89	-0.03
20 tc Endrin Aldeh	40.233	37.052 E6	7.9	91	-0.03
21 tc Endosulfan S	49.634	43.824 E6	11.7	87	-0.04
24 tc Endrin Keton	54.137	47.775 E6	11.8	87	-0.03
25 S SURR2,Decachlorobiphenyl	43.651	39.612 E6	9.3	91	-0.03

mf
4/25

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex852.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 6:48 pm
 Operator : M.PEDRO
 Sample : ccv24b
 Misc : indbm
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:12:46 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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/1	ug/1

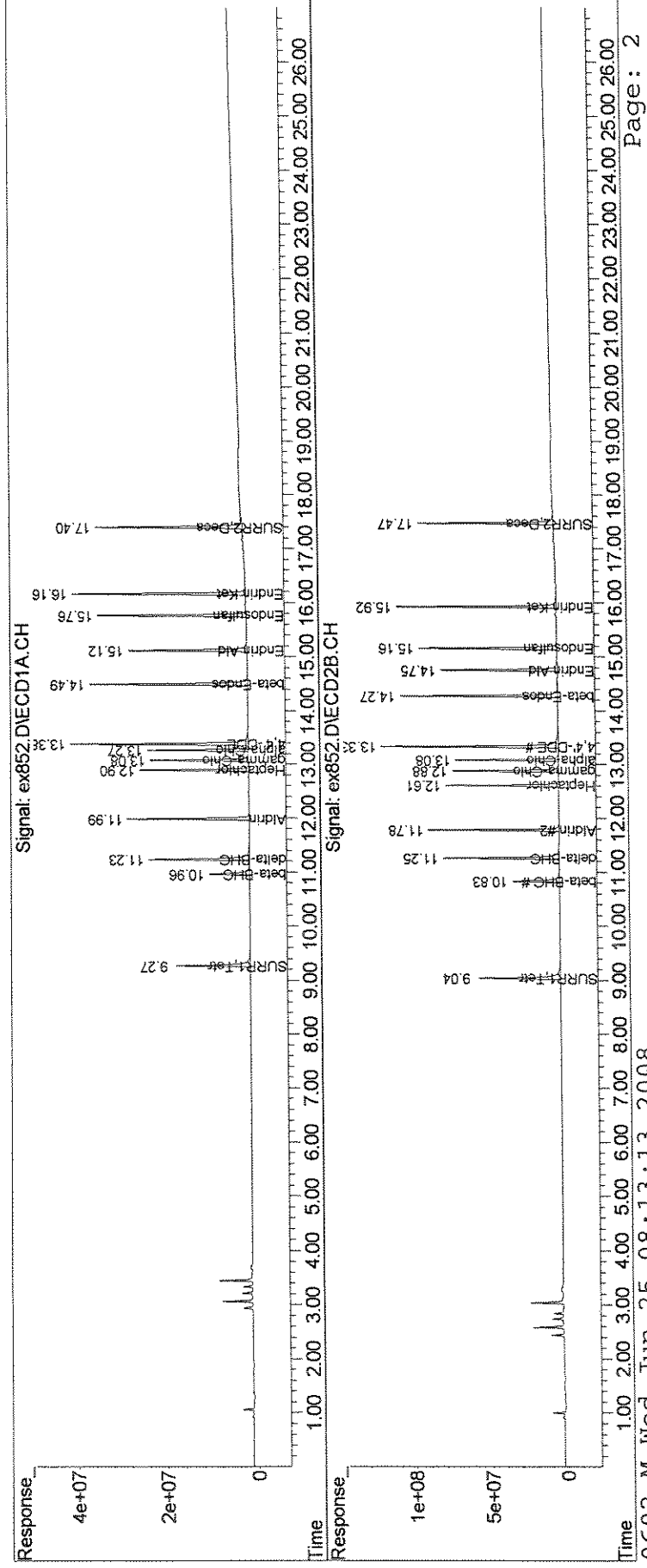
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	367.3E6	1237.4E6	19.501	20.280
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.50%#	20.28%#
25) S SURR2,Decachloro	17.40	17.47	674.0E6	1584.5E6	39.460	36.299
Spiked Amount	100.000	Range 30 - 150	Recovery =		39.46%	36.30%
Target Compounds						
6) tcm Aldrin	11.99	11.78	463.1E6	1403.3E6	18.816	18.725
7) tc beta-BHC	10.96	10.83	209.7E6	674.9E6	18.166	18.919
8) tc delta-BHC	11.23	11.26	484.5E6	1485.7E6	17.519	17.880
9) tc Heptachlor E	12.90	12.61	427.7E6	1234.4E6	18.561	18.372
11) tc gamma-Chlord	13.08	12.88	407.9E6	1224.8E6	17.897	17.566
12) tc alpha-Chlord	13.27	13.08	399.7E6	1177.9E6	17.888	17.736
13) tc 4,4'-DDE	13.39	13.33	797.2E6	2306.6E6	35.459	35.390
17) tc beta-Endosul	14.50	14.27	722.4E6	1972.0E6	36.748	35.956
20) tc Endrin Aldeh	15.12	14.75	558.5E6	1482.1E6	37.794	36.837
21) tc Endosulfan S	15.77	15.16	651.2E6	1753.0E6	35.903	35.318
24) tc Endrin Keton	16.16	15.92	747.9E6	1911.0E6	35.816	35.299
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.

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex852.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 6:48 pm
 Operator : M.PEDRO
 Sample : ccv24b
 Misc : indbm
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:12:46 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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



45880

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex863.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 1:19 am
 Operator : M.PEDRO
 Sample : ccv25a
 Misc : indam
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:29:36 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	18.833	18.577 E6	1.4	100	0.00
3 tc alpha-BHC	30.031	29.783 E6	0.8	99	-0.01
4 tcm gamma-BHC (L	27.489	27.001 E6	1.8	98	-0.02
5 tcm Heptachlor	26.908	26.910 E6	-0.0	100	-0.02
10 tc alpha-Endosu	20.604	20.418 E6	0.9	100	-0.02
14 tcm Dieldrin	23.283	23.384 E6	-0.4	100	-0.02
15 tcm Endrin	20.860	20.093 E6	3.7	96	-0.02
18 tc 4,4'-DDD	18.810	19.065 E6	-1.4	102	-0.02
19 tcm 4,4'-DDT	20.032	17.189 E6	14.2	85	-0.02
22 tc Methoxychlor	9.870	8.953 E6	9.3	90	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	16.885 E6	1.1	100	-0.02

Handwritten note: 4/25

Signal #2

1 S SURR1,Tetrac	61.016	60.276 E6	1.2	99	-0.02
3 tc alpha-BHC	92.467	94.905 E6	-2.6	102	-0.02
4 tcm gamma-BHC (L	82.157	85.119 E6	-3.6	104	-0.02
5 tcm Heptachlor	79.864	81.347 E6	-1.9	101	-0.03
10 tc alpha-Endosu	59.586	59.193 E6	0.7	99	-0.03
14 tcm Dieldrin	65.254	64.034 E6	1.9	97	-0.03
15 tcm Endrin	56.721	55.382 E6	2.4	97	-0.04
18 tc 4,4'-DDD	51.629	52.175 E6	-1.1	100	-0.03
19 tcm 4,4'-DDT	54.800	46.193 E6	15.7#	84	-0.03
22 tc Methoxychlor	24.116	22.091 E6	8.4	91	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	41.695 E6	4.5	96	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex863.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 1:19 am
 Operator : M.PEDRO
 Sample : ccv25a
 Misc : indam
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:29:36 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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

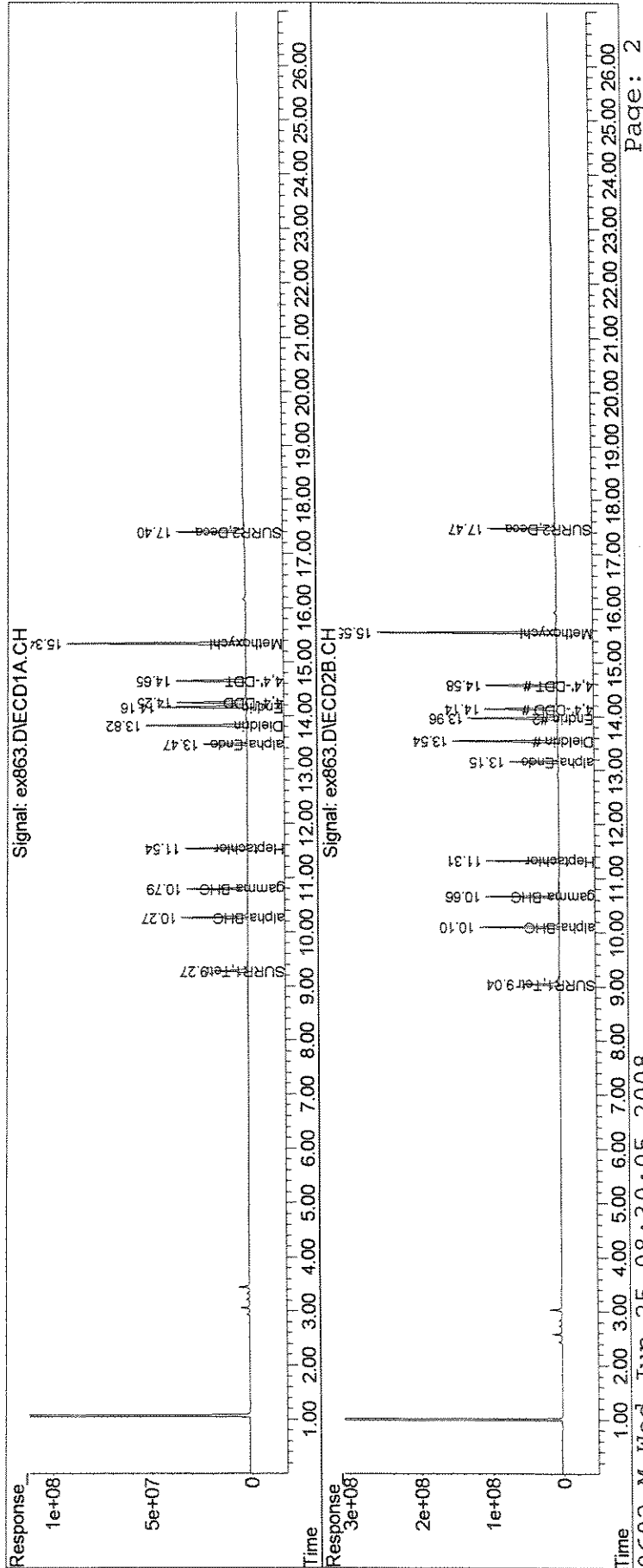
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	371.5E6	1205.5E6	19.728	19.758
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.73%#	19.76%#
25) S SURR2,Decachloro	17.40	17.47	675.4E6	1667.8E6	39.542	38.208
Spiked Amount	100.000	Range 30 - 150	Recovery =		39.54%	38.21%
Target Compounds						
3) tc alpha-BHC	10.27	10.10	595.7E6	1898.1E6	19.835	20.527
4) tcm gamma-BHC (L	10.79	10.66	540.0E6	1702.4E6	19.645	20.721
5) tcm Heptachlor	11.54	11.31	538.2E6	1626.9E6	20.001	20.371
10) tc alpha-Endosu	13.47	13.15	408.4E6	1183.9E6	19.819	19.868
14) tcm Dieldrin	13.82	13.54	935.4E6	2561.4E6	40.173	39.252
15) tcm Endrin	14.16	13.97	803.7E6	2215.3E6	38.529	39.056
18) tc 4,4'-DDD	14.25	14.14	762.6E6	2087.0E6	40.543	40.423
19) tcm 4,4'-DDT	14.65	14.58	687.6E6	1847.7E6	34.324	33.718
22) tc Methoxychlor	15.34	15.55	1790.6E6	4418.2E6	181.422	183.207
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.

Data Path : J:\ACQDATA\6890D\DATA\062408\
Data File : ex863.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Jun 2008 1:19 am
Operator : M.PEDRO
Sample : ccv25a
Misc : indam
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 25 08:29:36 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Wed Jun 25 07:06:05 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



00950

Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\062408\
 Data File : ex864.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 1:54 am
 Operator : M.PEDRO
 Sample : ccv25b
 Misc : indbm
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:30:36 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	18.833	18.581 E6	1.3	100	0.00
6 tcm Aldrin	24.613	23.303 E6	5.3	94	-0.02
7 tc beta-BHC	11.546	10.523 E6	8.9	91	0.00
8 TC delta-BHC	27.657	24.266 E6	12.3	86	0.00
9 tc Heptachlor E	23.041	21.499 E6	6.7	93	-0.02
11 tc gamma-Chlord	22.791	20.549 E6	9.8	90	-0.02
12 tc alpha-Chlord	22.346	20.135 E6	9.9	90	-0.02
13 tc 4,4'-DDE	22.482	20.008 E6	11.0	88	-0.02
17 tc beta-Endosul	19.657	18.026 E6	8.3	91	-0.02
20 tc Endrin Aldeh	14.779	13.801 E6	6.6	93	-0.03
21 tc Endosulfan S	18.138	16.525 E6	8.9	91	-0.03
24 tc Endrin Keton	20.882	18.687 E6	10.5	89	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.348 E6	-1.6	103	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	61.296 E6	-0.5	101	-0.02
6 tcm Aldrin	74.947	71.117 E6	5.1	94	-0.03
7 tc beta-BHC	35.673	33.928 E6	4.9	96	-0.01
8 tc delta-BHC	83.093	74.639 E6	10.2	89	-0.02
9 tc Heptachlor E	67.193	62.654 E6	6.8	92	-0.03
11 tc gamma-Chlord	69.724	62.273 E6	10.7	89	-0.03
12 tc alpha-Chlord	66.415	60.060 E6	9.6	90	-0.03
13 tc 4,4'-DDE	65.177	58.748 E6	9.9	89	-0.03
17 tc beta-Endosul	54.846	50.539 E6	7.9	91	-0.03
20 tc Endrin Aldeh	40.233	36.867 E6	8.4	91	-0.04
21 tc Endosulfan S	49.634	44.788 E6	9.8	89	-0.04
24 tc Endrin Keton	54.137	48.216 E6	10.9	88	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	41.531 E6	4.9	96	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex864.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 1:54 am
 Operator : M.PEDRO
 Sample : ccv25b
 Misc : indbm
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:30:36 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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

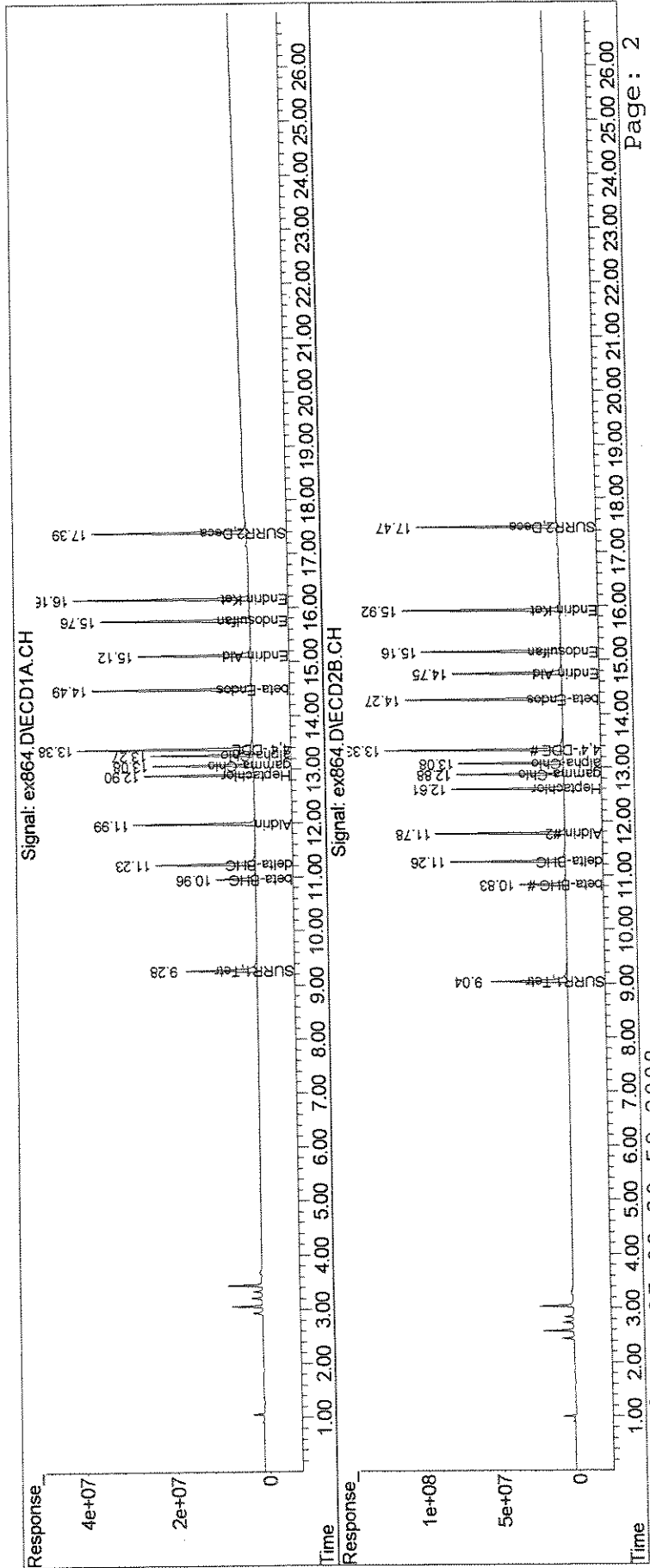
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	371.6E6	1225.9E6	19.732	20.092 <i>mg</i>
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.73%#	20.09%#
2) S SURR2,Decachloro	17.40	17.47	693.9E6	1661.3E6	40.627	38.058
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.63%	38.06%
Target Compounds						
6) tcm Aldrin	11.99	11.78	466.1E6	1422.3E6	18.936	18.978
7) tc beta-BHC	10.96	10.83	210.5E6	678.6E6	18.228	19.021
8) tc delta-BHC	11.23	11.26	485.3E6	1492.8E6	17.548	17.965
9) tc Heptachlor E	12.90	12.61	430.0E6	1253.1E6	18.661	18.649
1) tc gamma-Chlord	13.08	12.88	411.0E6	1245.5E6	18.033	17.863
2) tc alpha-Chlord	13.27	13.08	402.7E6	1201.2E6	18.021	18.086
3) tc 4,4'-DDE	13.39	13.33	800.3E6	2349.9E6	35.599	36.054
7) tc beta-Endosul	14.49	14.27	721.0E6	2021.6E6	36.680	36.859
0) tc Endrin Aldeh	15.12	14.75	552.0E6	1474.7E6	37.353	36.653
1) tc Endosulfan S	15.76	15.16	661.0E6	1791.5E6	36.444	36.094
4) tc Endrin Keton	16.16	15.92	747.5E6	1928.6E6	35.795	35.625
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.

Data Path : J:\ACQUDATA\6890D\DATA\062408\
Data File : ex864.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Jun 2008 1:54 am
Operator : M.PEDRO
Sample : ccv25b
Misc : indbm
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 25 08:30:36 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Wed Jun 25 07:06:05 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\062408\
 Data File : ex869.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 4:53 am
 Operator : M.PEDRO
 Sample : ccv26a
 Misc : indam
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:38:07 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	18.833	18.632 E6	1.1	101	0.00
3 tc alpha-BHC	30.031	29.814 E6	0.7	99	-0.01
4 tcm gamma-BHC (L	27.489	26.890 E6	2.2	98	-0.02
5 tcm Heptachlor	26.908	26.859 E6	0.2	100	-0.02
10 tc alpha-Endosu	20.604	20.322 E6	1.4	100	-0.02
14 tcm Dieldrin	23.283	23.215 E6	0.3	99	-0.02
15 tcm Endrin	20.860	19.777 E6	5.2	94	-0.02
18 tc 4,4'-DDD	18.810	18.520 E6	1.5	99	-0.02
19 tcm 4,4'-DDT	20.032	17.823 E6	11.0	88	-0.02
22 tc Methoxychlor	9.870	9.179 E6	7.0	93	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	16.509 E6	3.3	98	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	59.899 E6	1.8	99	-0.02
3 tc alpha-BHC	92.467	94.700 E6	-2.4	102	-0.02
4 tcm gamma-BHC (L	82.157	85.096 E6	-3.6	104	-0.02
5 tcm Heptachlor	79.864	81.612 E6	-2.2	102	-0.03
10 tc alpha-Endosu	59.586	59.468 E6	0.2	99	-0.03
14 tcm Dieldrin	65.254	64.396 E6	1.3	97	-0.03
15 tcm Endrin	56.721	55.394 E6	2.3	97	-0.04
18 tc 4,4'-DDD	51.629	51.479 E6	0.3	99	-0.03
19 tcm 4,4'-DDT	54.800	49.115 E6	10.4	89	-0.03
22 tc Methoxychlor	24.116	22.995 E6	4.6	95	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	40.858 E6	6.4	94	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUADATA\6890D\DATA\062408\
 Data File : ex869.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 4:53 am
 Operator : M.PEDRO
 Sample : ccv26a
 Misc : indam
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:38:07 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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

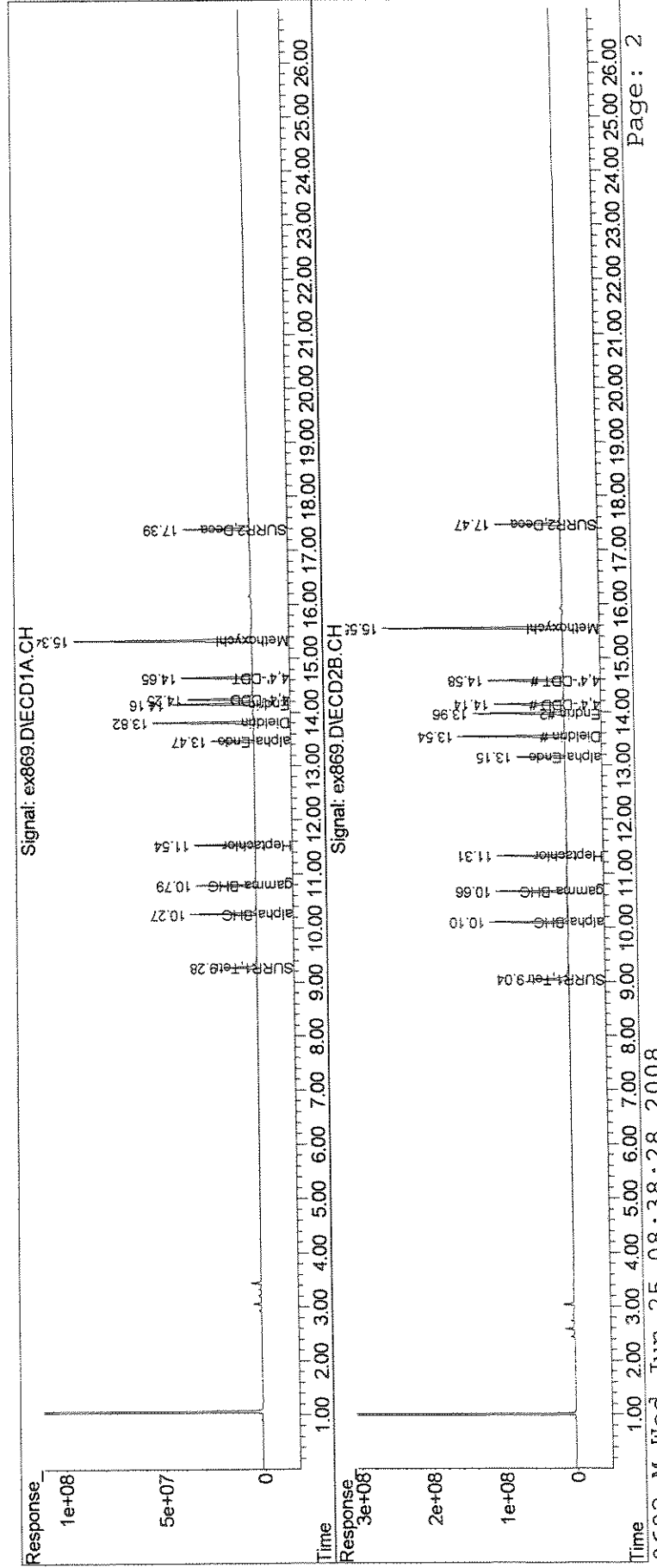
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	372.6E6	1198.0E6	19.786	19.634
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.79%#	19.63%#
25) S SURR2,Decachloro	17.40	17.47	660.3E6	1634.3E6	38.662	37.441
Spiked Amount	100.000	Range 30 - 150	Recovery =		38.66%	37.44% <i>MB</i>
Target Compounds						
3) tc alpha-BHC	10.27	10.10	596.3E6	1894.0E6	19.856	20.483
4) tcm gamma-BHC (L	10.79	10.66	537.8E6	1701.9E6	19.564	20.715
5) tcm Heptachlor	11.54	11.31	537.2E6	1632.2E6	19.963	20.438
10) tc alpha-Endosu	13.47	13.15	406.4E6	1189.4E6	19.727	19.961
14) tcm Dieldrin	13.82	13.54	928.6E6	2575.8E6	39.882	39.474
15) tcm Endrin	14.16	13.97	791.1E6	2215.8E6	37.924	39.064
18) tc 4,4'-DDD	14.25	14.14	740.8E6	2059.2E6	39.385	39.884
19) tcm 4,4'-DDT	14.65	14.58	712.9E6	1964.6E6	35.590	35.851
22) tc Methoxychlor	15.34	15.55	1835.8E6	4599.0E6	186.005	190.706
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.

Data Path : J:\ACQDATA\6890D\DATA\062408\
Data File : ex869.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Jun 2008 4:53 am
Operator : M.PEDRO
Sample : ccv26a
Misc : indam
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 25 08:38:07 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Wed Jun 25 07:06:05 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



00056

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex870.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 5:28 am
 Operator : M.PEDRO
 Sample : ccv26b
 Misc : indbm
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:39:03 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	18.833	18.019 E6	4.3	97	0.00
6 tcm Aldrin	24.613	23.168 E6	5.9	94	-0.02
7 tc beta-BHC	11.546	10.431 E6	9.7	90	0.00
8 TC delta-BHC	27.657	23.900 E6	13.6	85	0.00
9 tc Heptachlor E	23.041	21.422 E6	7.0	93	-0.02
11 tc gamma-Chlord	22.791	20.493 E6	10.1	90	-0.02
12 tc alpha-Chlord	22.346	19.810 E6	11.3	89	-0.02
13 tc 4,4'-DDE	22.482	20.214 E6	10.1	89	-0.02
17 tc beta-Endosul	19.657	18.150 E6	7.7	91	-0.02
20 tc Endrin Aldeh	14.779	13.540 E6	8.4	91	-0.03
21 tc Endosulfan S	18.138	15.957 E6	12.0	87	-0.03
24 tc Endrin Keton	20.882	18.471 E6	11.5	88	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.066 E6	0.1	102	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	62.294 E6	-2.1	103	-0.01
6 tcm Aldrin	74.947	71.016 E6	5.2	94	-0.03
7 tc beta-BHC	35.673	34.393 E6	3.6	97	-0.01
8 tc delta-BHC	83.093	77.463 E6	6.8	92	-0.02
9 tc Heptachlor E	67.193	62.560 E6	6.9	92	-0.03
11 tc gamma-Chlord	69.724	62.138 E6	10.9	89	-0.03
12 tc alpha-Chlord	66.415	60.147 E6	9.4	90	-0.03
13 tc 4,4'-DDE	65.177	58.915 E6	9.6	89	-0.03
17 tc beta-Endosul	54.846	50.174 E6	8.5	90	-0.03
20 tc Endrin Aldeh	40.233	35.955 E6	10.6	88	-0.04
21 tc Endosulfan S	49.634	43.384 E6	12.6	87	-0.04
24 tc Endrin Keton	54.137	47.600 E6	12.1	87	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	41.202 E6	5.6	95	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex870.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 5:28 am
 Operator : M.PEDRO
 Sample : ccv26b
 Misc : indbm
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:39:03 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	360.4E6	1245.9E6	19.135	20.419
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.14%#	20.42%#
25) S SURR2,Decachloro	17.40	17.47	682.6E6	1648.1E6	39.966	37.756
Spiked Amount	100.000	Range 30 - 150	Recovery =		39.97%	37.76%
Target Compounds						
6) tcm Aldrin	11.99	11.78	463.4E6	1420.3E6	18.826	18.951
7) tc beta-BHC	10.96	10.83	208.6E6	687.9E6	18.069	19.282
8) tc delta-BHC	11.23	11.26	478.0E6	1549.3E6	17.283	18.645
9) tc Heptachlor E	12.90	12.61	428.4E6	1251.2E6	18.594	18.621
11) tc gamma-Chlord	13.08	12.88	409.9E6	1242.8E6	17.983	17.824
12) tc alpha-Chlord	13.27	13.08	396.2E6	1202.9E6	17.730	18.113
13) tc 4,4'-DDE	13.39	13.33	808.6E6	2356.6E6	35.965	36.157
17) tc beta-Endosul	14.49	14.27	726.0E6	2007.0E6	36.933	36.593
20) tc Endrin Aldeh	15.12	14.75	541.6E6	1438.2E6	36.649	35.746
21) tc Endosulfan S	15.76	15.16	638.3E6	1735.4E6	35.191	34.963
24) tc Endrin Keton	16.16	15.92	738.8E6	1904.0E6	35.381	35.170
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

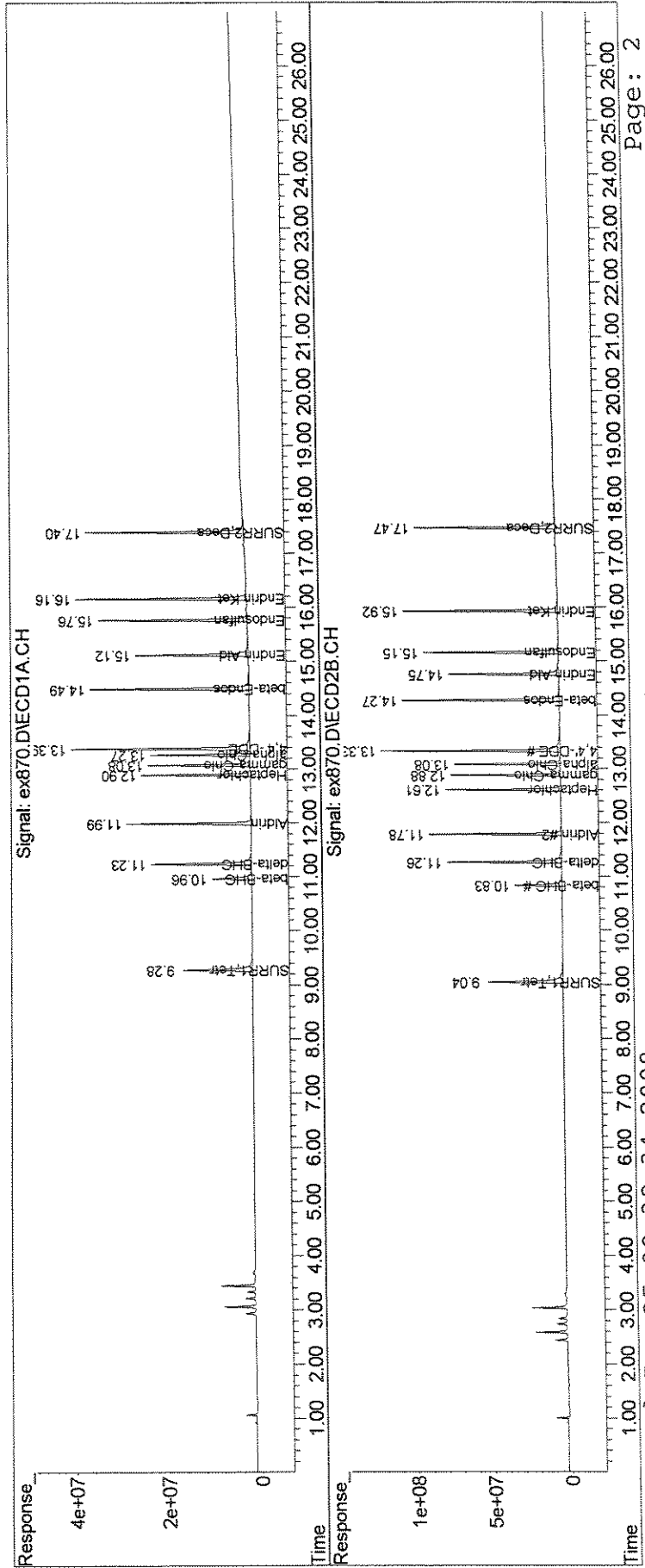
Handwritten: 4/25

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex870.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 5:28 am
 Operator : M.PEDRO
 Sample : ccv26b
 Misc : indbm
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:39:03 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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\062608\
 Data File : ex872.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 10:44 am
 Operator : M.PEDRO
 Sample : ccv27a
 Misc : indam
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:08:17 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	18.833	18.925 E6	-0.5	102	0.00
3 tc alpha-BHC	30.031	30.267 E6	-0.8	101	0.00
4 tcm gamma-BHC (L	27.489	27.392 E6	0.4	100	0.00
5 tcm Heptachlor	26.908	27.306 E6	-1.5	102	0.00
10 tc alpha-Endosu	20.604	20.534 E6	0.3	101	-0.01
14 tcm Dieldrin	23.283	23.444 E6	-0.7	100	-0.01
15 tcm Endrin	20.860	20.032 E6	4.0	96	-0.01
18 tc 4,4'-DDD	18.810	18.590 E6	1.2	99	0.00
19 tcm 4,4'-DDT	20.032	18.340 E6	8.4	91	-0.01
22 tc Methoxychlor	9.870	9.190 E6	6.9	93	-0.01
25 S SURR2,Decachlorobiphenyl	17.080	16.886 E6	1.1	100	-0.01

Signal #2

1 S SURR1,Tetrac	61.016	61.910 E6	-1.5	102	-0.02
3 tc alpha-BHC	92.467	97.796 E6	-5.8	105	-0.02
4 tcm gamma-BHC (L	82.157	87.698 E6	-6.7	107	-0.02
5 tcm Heptachlor	79.864	83.470 E6	-4.5	104	-0.03
10 tc alpha-Endosu	59.586	60.560 E6	-1.6	101	-0.03
14 tcm Dieldrin	65.254	66.469 E6	-1.9	101	-0.03
15 tcm Endrin	56.721	56.094 E6	1.1	98	-0.03
18 tc 4,4'-DDD	51.629	51.473 E6	0.3	99	-0.03
19 tcm 4,4'-DDT	54.800	50.771 E6	7.4	92	-0.03
22 tc Methoxychlor	24.116	23.051 E6	4.4	95	-0.03
25 S SURR2,Decachlorobiphenyl	43.651	42.157 E6	3.4	97	-0.03

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLORO BENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex872.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 10:44 am
 Operator : M.PEDRO
 Sample : ccv27a
 Misc : indam
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:08:17 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.28	9.04	378.5E6	1238.2E6	20.097	20.293
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.10%#	20.29%#
25) S SURR2,Decachloro	17.41	17.47	675.4E6	1686.3E6	39.545	38.631
Spiked Amount	100.000	Range 30 - 150	Recovery =		39.55%	38.63%
Target Compounds						
3) tc alpha-BHC	10.28	10.10	605.3E6	1955.9E6	20.157	21.153
4) tcm gamma-BHC (L)	10.80	10.66	547.8E6	1754.0E6	19.929	21.349
5) tcm Heptachlor	11.55	11.31	546.1E6	1669.4E6	20.295	20.903
10) tc alpha-Endosu	13.48	13.15	410.7E6	1211.2E6	19.933	20.327
14) tcm Dieldrin	13.83	13.54	937.7E6	2658.8E6	40.275	40.745
15) tcm Endrin	14.17	13.97	801.3E6	2243.8E6	38.413	39.558
18) tc 4,4'-DDD	14.26	14.14	743.6E6	2058.9E6	39.534	39.879
19) tcm 4,4'-DDT	14.66	14.58	733.6E6	2030.8E6	36.621	37.059
22) tc Methoxychlor	15.36	15.56	1838.0E6	4610.3E6	186.225	191.173
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

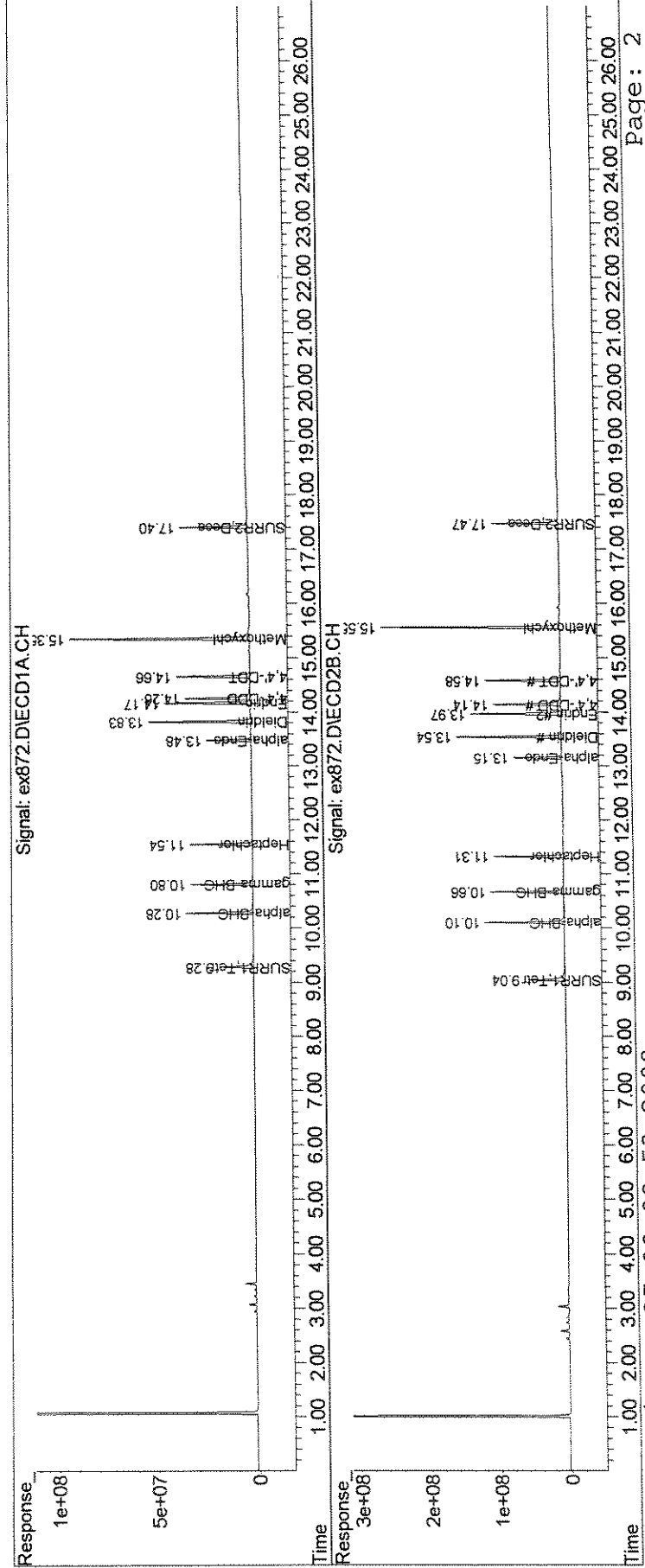
M/4/07

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex872.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 10:44 am
 Operator : M.PEDRO
 Sample : ccv27a
 Misc : indam
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:08:17 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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



00962

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex873.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 11:19 am
 Operator : M.PEDRO
 Sample : ccv27b
 Misc : indbm
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:09:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	18.833	18.732 E6	0.5	101	0.00
6 tcm Aldrin	24.613	23.778 E6	3.4	96	-0.02
7 tc beta-BHC	11.546	10.639 E6	7.9	92	0.00
8 TC delta-BHC	27.657	24.345 E6	12.0	87	0.00
9 tc Heptachlor E	23.041	21.878 E6	5.0	95	-0.02
11 tc gamma-Chlord	22.791	21.008 E6	7.8	92	-0.02
12 tc alpha-Chlord	22.346	20.594 E6	7.8	92	-0.02
13 tc 4,4'-DDE	22.482	20.627 E6	8.3	91	-0.02
17 tc beta-Endosul	19.657	18.347 E6	6.7	92	-0.02
20 tc Endrin Aldeh	14.779	13.710 E6	7.2	93	-0.03
21 tc Endosulfan S	18.138	16.183 E6	10.8	89	-0.03
24 tc Endrin Keton	20.882	18.739 E6	10.3	89	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	16.985 E6	0.6	101	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	63.592 E6	-4.2	105	-0.02
6 tcm Aldrin	74.947	72.559 E6	3.2	96	-0.03
7 tc beta-BHC	35.673	34.611 E6	3.0	98	-0.01
8 tc delta-BHC	83.093	75.028 E6	9.7	89	-0.02
9 tc Heptachlor E	67.193	63.910 E6	4.9	94	-0.03
11 tc gamma-Chlord	69.724	63.574 E6	8.8	91	-0.03
12 tc alpha-Chlord	66.415	61.359 E6	7.6	92	-0.03
13 tc 4,4'-DDE	65.177	59.435 E6	8.8	90	-0.03
17 tc beta-Endosul	54.846	51.175 E6	6.7	92	-0.03
20 tc Endrin Aldeh	40.233	36.864 E6	8.4	91	-0.04
21 tc Endosulfan S	49.634	44.250 E6	10.8	88	-0.04
24 tc Endrin Keton	54.137	48.675 E6	10.1	89	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	42.420 E6	2.8	98	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex873.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 11:19 am
 Operator : M.PEDRO
 Sample : ccv27b
 Misc : indbm
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:09:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

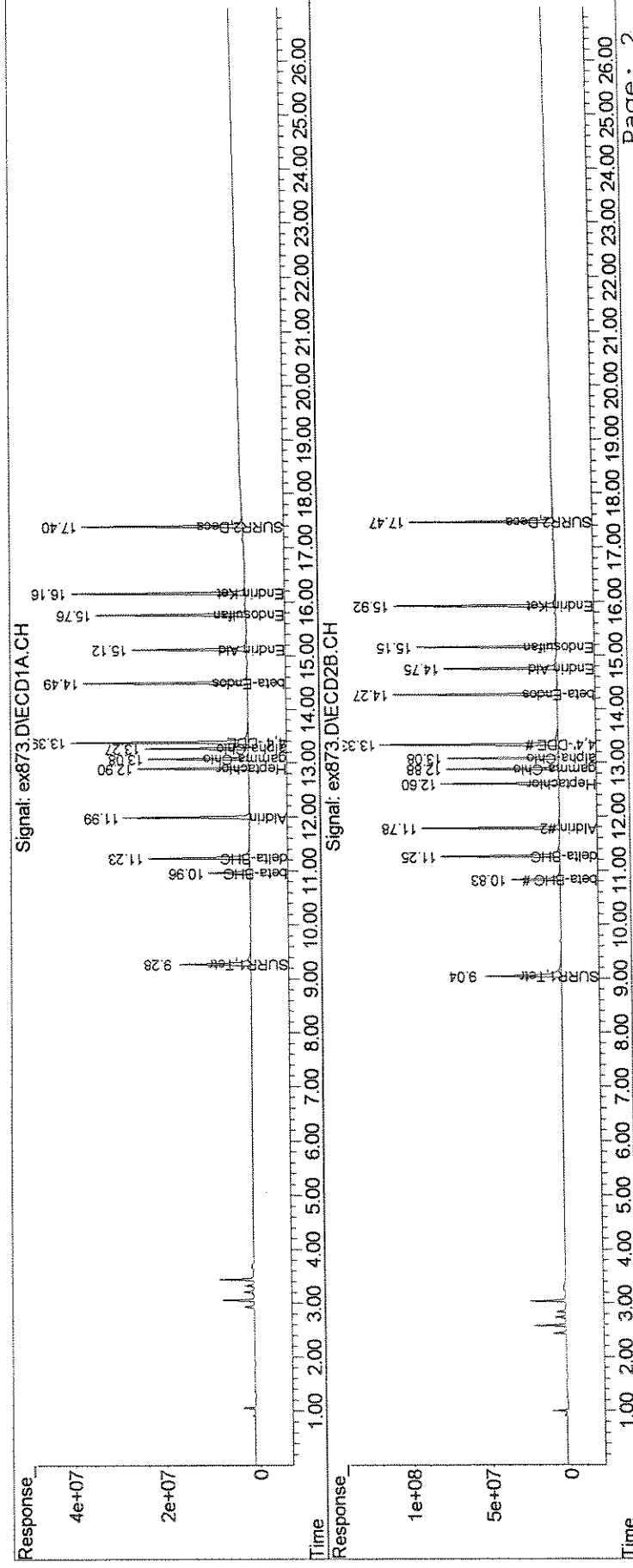
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	374.6E6	1271.8E6	19.892	20.844
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.89%#	20.84%#
25) S SURR2,Decachloro	17.40	17.47	679.4E6	1696.8E6	39.777	38.872
Spiked Amount	100.000	Range 30 - 150	Recovery =		39.78%	38.87%
Target Compounds						
6) tcm Aldrin	11.99	11.78	475.6E6	1451.2E6	19.321	19.363
7) tc beta-BHC	10.96	10.83	212.8E6	692.2E6	18.430	19.405
8) tc delta-BHC	11.23	11.25	486.9E6	1500.6E6	17.605	18.059
9) tc Heptachlor E	12.90	12.60	437.6E6	1278.2E6	18.990	19.023
11) tc gamma-Chlord	13.08	12.88	420.2E6	1271.5E6	18.435	18.236
12) tc alpha-Chlord	13.27	13.08	411.9E6	1227.2E6	18.432	18.477
13) tc 4,4'-DDE	13.39	13.33	825.1E6	2377.4E6	36.701	36.476
17) tc beta-Endosul	14.50	14.27	733.9E6	2047.0E6	37.333	37.323
20) tc Endrin Aldeh	15.12	14.75	548.4E6	1474.6E6	37.109	36.650
21) tc Endosulfan S	15.76	15.15	647.3E6	1770.0E6	35.689	35.661
24) tc Endrin Keton	16.16	15.92	749.6E6	1947.0E6	35.894	35.964
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.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex873.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 11:19 am
 Operator : M.PEDRO
 Sample : ccv27b
 Misc : indbm
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:09:45 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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:\ACQUADATA\6890D\DATA\062608\
 Data File : ex885.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 7:15 pm
 Operator : M.PEDRO
 Sample : ccv28a
 Misc : indam
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:44:42 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	18.833	19.084 E6	-1.3	103	0.00
3 tc alpha-BHC	30.031	30.461 E6	-1.4	102	-0.01
4 tcm gamma-BHC (L	27.489	27.515 E6	-0.1	100	-0.02
5 tcm Heptachlor	26.908	27.594 E6	-2.5	103	-0.02
10 tc alpha-Endosu	20.604	20.684 E6	-0.4	101	-0.02
14 tcm Dieldrin	23.283	23.623 E6	-1.5	101	-0.02
15 tcm Endrin	20.860	20.571 E6	1.4	98	-0.03
18 tc 4,4'-DDD	18.810	18.662 E6	0.8	100	-0.02
19 tcm 4,4'-DDT	20.032	18.855 E6	5.9	93	-0.02
22 tc Methoxychlor	9.870	9.428 E6	4.5	95	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	17.380 E6	-1.8	103	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	60.990 E6	0.0	101	-0.02
3 tc alpha-BHC	92.467	94.834 E6	-2.6	102	-0.03
4 tcm gamma-BHC (L	82.157	84.749 E6	-3.2	103	-0.03
5 tcm Heptachlor	79.864	80.806 E6	-1.2	101	-0.03
10 tc alpha-Endosu	59.586	57.049 E6	4.3	95	-0.03
14 tcm Dieldrin	65.254	61.222 E6	6.2	93	-0.04
15 tcm Endrin	56.721	53.848 E6	5.1	94	-0.04
18 tc 4,4'-DDD	51.629	47.279 E6	8.4	91	-0.03
19 tcm 4,4'-DDT	54.800	46.942 E6	14.3	85	-0.03
22 tc Methoxychlor	24.116	22.706 E6	5.8	94	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	40.728 E6	6.7	94	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUADATA\6890D\DATA\062608\
 Data File : ex885.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 7:15 pm
 Operator : M.PEDRO
 Sample : ccv28a
 Misc : indam
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:44:42 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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/1	ug/1

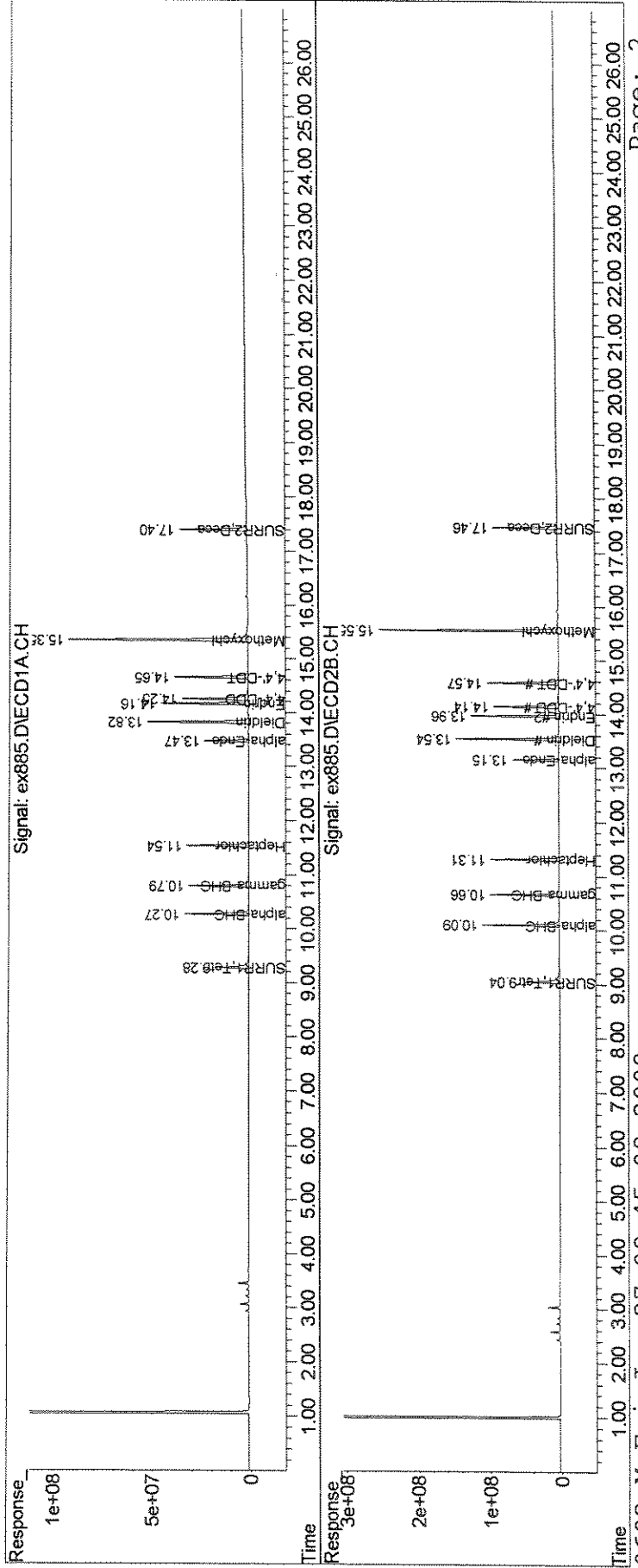
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	381.7E6	1219.8E6	20.266	19.991
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.27%#	19.99%#
25) S SURR2,Decachloro	17.40	17.46	695.2E6	1629.1E6	40.702	37.321
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.70%	37.32%
Target Compounds						
3) tc alpha-BHC	10.27	10.09	609.2E6	1896.7E6	20.286	20.512
4) tcm gamma-BHC (L	10.79	10.66	550.3E6	1695.0E6	20.019	20.631
5) tcm Heptachlor	11.54	11.31	551.9E6	1616.1E6	20.509	20.236
10) tc alpha-Endosu	13.47	13.15	413.7E6	1141.0E6	20.078	19.149
14) tcm Dieldrin	13.82	13.54	944.9E6	2448.9E6	40.584	37.529
15) tcm Endrin	14.16	13.96	822.8E6	2153.9E6	39.446	37.974
18) tc 4,4'-DDD	14.25	14.14	746.5E6	1891.2E6	39.687	36.630
19) tcm 4,4'-DDT	14.65	14.57	754.2E6	1877.7E6	37.650	34.265
22) tc Methoxychlor	15.35	15.55	1885.6E6	4541.2E6	191.051	188.311
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.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex885.D
 Signal(s) : Signal #1: ECDIA.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 7:15 pm
 Operator : M.PEDRO
 Sample : ccv28a
 Misc : indam
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:44:42 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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



00958

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex886.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 7:51 pm
 Operator : M.PEDRO
 Sample : ccv28b
 Misc : indbm
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:46:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	18.833	18.953 E6	-0.6	102	0.00
6 tcm Aldrin	24.613	23.970 E6	2.6	97	-0.02
7 tc beta-BHC	11.546	10.760 E6	6.8	93	0.00
8 TC delta-BHC	27.657	24.279 E6	12.2	86	0.00
9 tc Heptachlor E	23.041	21.999 E6	4.5	96	-0.02
11 tc gamma-Chlord	22.791	20.936 E6	8.1	92	-0.02
12 tc alpha-Chlord	22.346	20.305 E6	9.1	91	-0.02
13 tc 4,4'-DDE	22.482	20.363 E6	9.4	90	-0.02
17 tc beta-Endosul	19.657	18.277 E6	7.0	92	-0.02
20 tc Endrin Aldeh	14.779	14.080 E6	4.7	95	-0.03
21 tc Endosulfan S	18.138	16.016 E6	11.7	88	-0.03
24 tc Endrin Keton	20.882	18.866 E6	9.7	90	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.192 E6	-0.7	102	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	64.233 E6	-5.3	106	-0.01
6 tcm Aldrin	74.947	70.716 E6	5.6	93	-0.03
7 tc beta-BHC	35.673	34.588 E6	3.0	98	-0.01
8 tc delta-BHC	83.093	76.390 E6	8.1	91	-0.02
9 tc Heptachlor E	67.193	61.397 E6	8.6	90	-0.03
11 tc gamma-Chlord	69.724	60.795 E6	12.8	87	-0.03
12 tc alpha-Chlord	66.415	58.530 E6	11.9	88	-0.03
13 tc 4,4'-DDE	65.177	57.364 E6	12.0	87	-0.03
17 tc beta-Endosul	54.846	48.603 E6	11.4	88	-0.03
20 tc Endrin Aldeh	40.233	35.636 E6	11.4	88	-0.04
21 tc Endosulfan S	49.634	41.532 E6	16.3#	83	-0.04
24 tc Endrin Keton	54.137	46.529 E6	14.1	85	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	40.987 E6	6.1	95	-0.04

Handwritten mark

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex886.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 7:51 pm
 Operator : M.PEDRO
 Sample : ccv28b
 Misc : indbm
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:46:04 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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

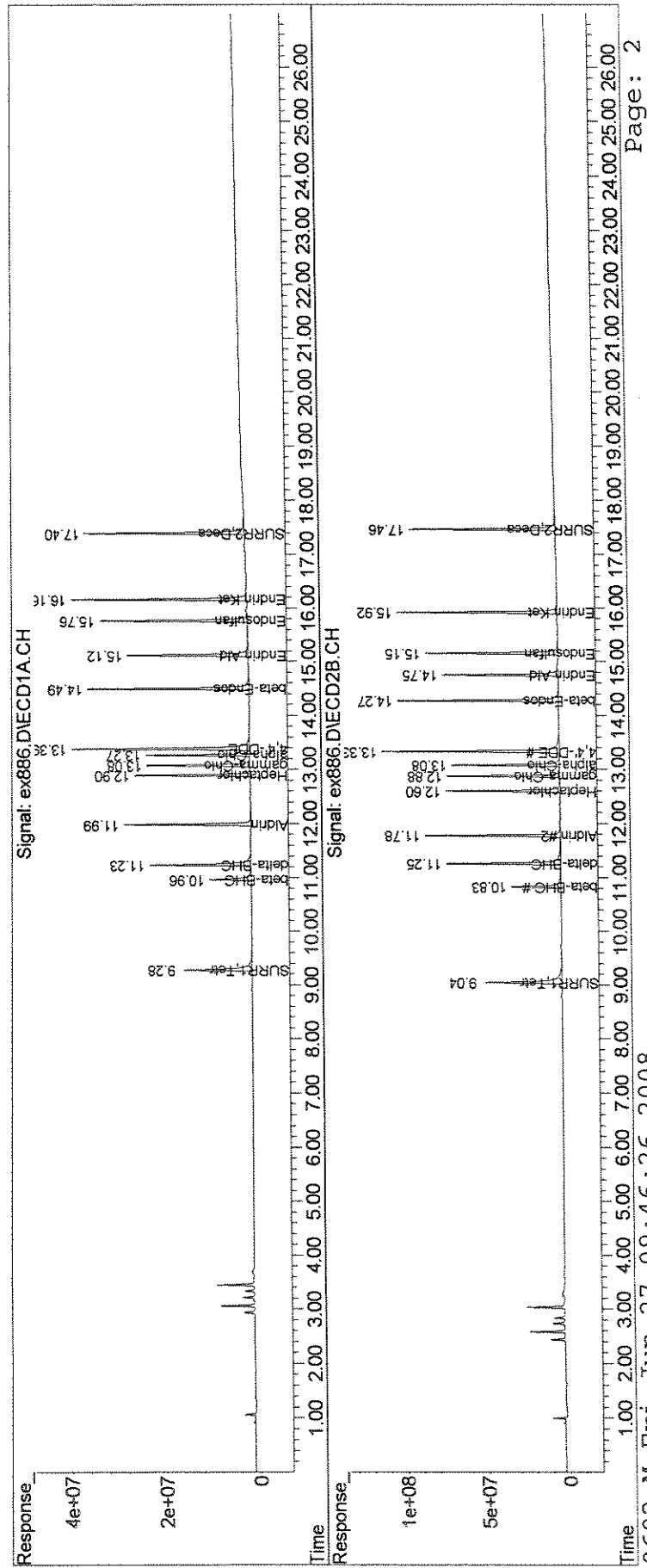
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	379.1E6	1284.7E6	20.127	21.055
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.13%#	21.06%#
25) S SURR2,Decachloro	17.40	17.47	687.7E6	1639.5E6	40.263	37.559
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.26%	37.56%
Target Compounds						
6) tcm Aldrin	11.99	11.78	479.4E6	1414.3E6	19.477	18.871
7) tc beta-BHC	10.96	10.83	215.2E6	691.8E6	18.638	19.392
8) tc delta-BHC	11.23	11.26	485.6E6	1527.8E6	17.558	18.387
9) tc Heptachlor E	12.90	12.60	440.0E6	1227.9E6	19.095	18.275
11) tc gamma-Chlord	13.08	12.88	418.7E6	1215.9E6	18.372	17.439
12) tc alpha-Chlord	13.27	13.08	406.1E6	1170.6E6	18.173	17.626
13) tc 4,4'-DDE	13.39	13.33	814.5E6	2294.6E6	36.230	35.205
17) tc beta-Endosul	14.49	14.27	731.1E6	1944.1E6	37.192	35.447
20) tc Endrin Aldeh	15.12	14.75	563.2E6	1425.4E6	38.108	35.429
21) tc Endosulfan S	15.76	15.15	640.6E6	1661.3E6	35.321	33.470
24) tc Endrin Keton	16.16	15.92	754.6E6	1861.2E6	36.137	34.379
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.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex886.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 7:51 pm
Operator : M.PEDRO
Sample : ccv28b
Misc : indbm
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 09:46:04 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



00971

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex897.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 2:22 am
 Operator : M.PEDRO
 Sample : ccv29a
 Misc : indam
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 10:13:42 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	18.833	18.893 E6	-0.3	102	0.00
3 tc alpha-BHC	30.031	30.103 E6	-0.2	100	-0.01
4 tcm gamma-BHC (L	27.489	27.160 E6	1.2	99	-0.02
5 tcm Heptachlor	26.908	27.438 E6	-2.0	102	-0.02
10 tc alpha-Endosu	20.604	20.499 E6	0.5	100	-0.02
14 tcm Dieldrin	23.283	23.392 E6	-0.5	100	-0.03
15 tcm Endrin	20.860	20.378 E6	2.3	97	-0.03
18 tc 4,4'-DDD	18.810	18.431 E6	2.0	98	-0.02
19 tcm 4,4'-DDT	20.032	18.922 E6	5.5	94	-0.02
22 tc Methoxychlor	9.870	9.417 E6	4.6	95	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	18.035 E6	-5.6	107	-0.03

Signal #2

1 S SURR1,Tetrac	61.016	60.685 E6	0.5	100	-0.01
3 tc alpha-BHC	92.467	94.971 E6	-2.7	102	-0.03
4 tcm gamma-BHC (L	82.157	84.734 E6	-3.1	103	-0.03
5 tcm Heptachlor	79.864	81.395 E6	-1.9	101	-0.03
10 tc alpha-Endosu	59.586	57.951 E6	2.7	97	-0.04
14 tcm Dieldrin	65.254	63.629 E6	2.5	96	-0.04
15 tcm Endrin	56.721	56.012 E6	1.2	98	-0.04
18 tc 4,4'-DDD	51.629	49.168 E6	4.8	94	-0.03
19 tcm 4,4'-DDT	54.800	48.734 E6	11.1	88	-0.04
22 tc Methoxychlor	24.116	22.675 E6	6.0	94	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	40.586 E6	7.0	94	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex897.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 2:22 am
 Operator : M.PEDRO
 Sample : ccv29a
 Misc : indam
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 10:13:42 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.28	9.04	377.9E6	1213.7E6	20.064	19.892
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.06%#	19.89%#
25) S SURR2,Decachloro	17.40	17.46	721.4E6	1623.4E6	42.236	37.191
Spiked Amount	100.000	Range 30 - 150	Recovery =		42.24%	37.19%
Target Compounds						
3) tc alpha-BHC	10.27	10.09	602.1E6	1899.4E6	20.048	20.542
4) tcm gamma-BHC (L	10.79	10.66	543.2E6	1694.7E6	19.761	20.627
5) tcm Heptachlor	11.53	11.31	548.8E6	1627.9E6	20.393	20.383
10) tc alpha-Endosu	13.47	13.15	410.0E6	1159.0E6	19.898	19.451
14) tcm Dieldrin	13.82	13.53	935.7E6	2545.2E6	40.187	39.004
15) tcm Endrin	14.16	13.96	815.1E6	2240.5E6	39.076	39.500
18) tc 4,4'-DDD	14.25	14.14	737.2E6	1966.7E6	39.195	38.094
19) tcm 4,4'-DDT	14.65	14.57	756.9E6	1949.4E6	37.785	35.573
22) tc Methoxychlor	15.34	15.55	1883.4E6	4534.9E6	190.825	188.048
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

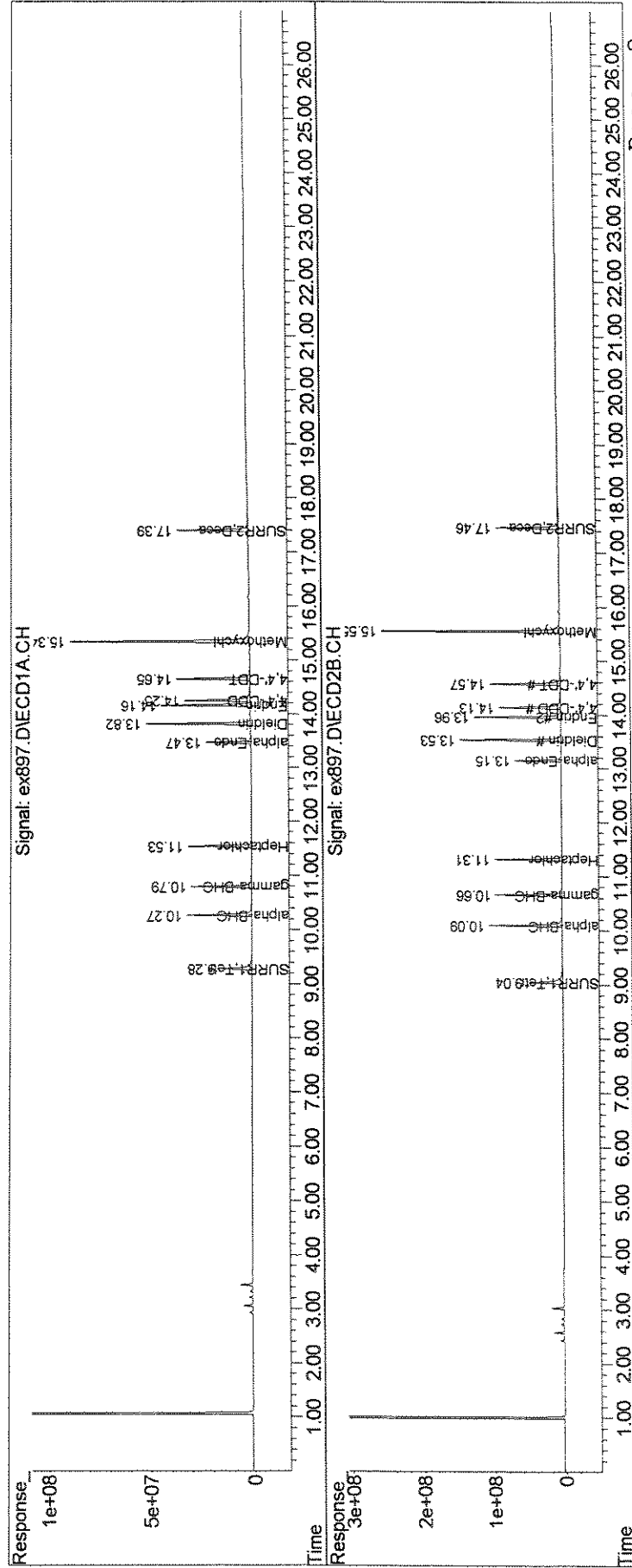
MSP 4/27

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex897.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 2:22 am
Operator : M.PEDRO
Sample : ccv29a
Misc : indam
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 10:13:42 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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\062608\
 Data File : ex898.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 2:58 am
 Operator : M.PEDRO
 Sample : ccv29b
 Misc : indbm
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 10:14:40 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	18.833	18.719 E6	0.6	101	0.00
6 tcm Aldrin	24.613	23.748 E6	3.5	96	-0.02
7 tc beta-BHC	11.546	10.600 E6	8.2	92	0.00
8 TC delta-BHC	27.657	23.825 E6	13.9	85	0.00
9 tc Heptachlor E	23.041	21.869 E6	5.1	95	-0.02
11 tc gamma-Chlord	22.791	20.928 E6	8.2	92	-0.02
12 tc alpha-Chlord	22.346	20.142 E6	9.9	90	-0.02
13 tc 4,4'-DDE	22.482	20.489 E6	8.9	90	-0.02
17 tc beta-Endosul	19.657	18.051 E6	8.2	91	-0.02
20 tc Endrin Aldeh	14.779	14.059 E6	4.9	95	-0.03
21 tc Endosulfan S	18.138	16.054 E6	11.5	88	-0.03
24 tc Endrin Keton	20.882	19.014 E6	8.9	91	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.012 E6	0.4	101	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	64.046 E6	-5.0	106	-0.01
6 tcm Aldrin	74.947	71.134 E6	5.1	94	-0.03
7 tc beta-BHC	35.673	34.577 E6	3.1	98	-0.01
8 tc delta-BHC	83.093	76.445 E6	8.0	91	-0.02
9 tc Heptachlor E	67.193	61.958 E6	7.8	91	-0.03
11 tc gamma-Chlord	69.724	61.372 E6	12.0	87	-0.03
12 tc alpha-Chlord	66.415	59.446 E6	10.5	89	-0.03
13 tc 4,4'-DDE	65.177	57.819 E6	11.3	88	-0.03
17 tc beta-Endosul	54.846	49.172 E6	10.3	89	-0.04
20 tc Endrin Aldeh	40.233	36.291 E6	9.8	89	-0.04
21 tc Endosulfan S	49.634	42.378 E6	14.6	85	-0.04
24 tc Endrin Keton	54.137	47.396 E6	12.5	87	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	41.463 E6	5.0	96	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex898.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Jun 2008 2:58 am
 Operator : M.PEDRO
 Sample : ccv29b
 Misc : indbm
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 10:14:40 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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/1	ug/1

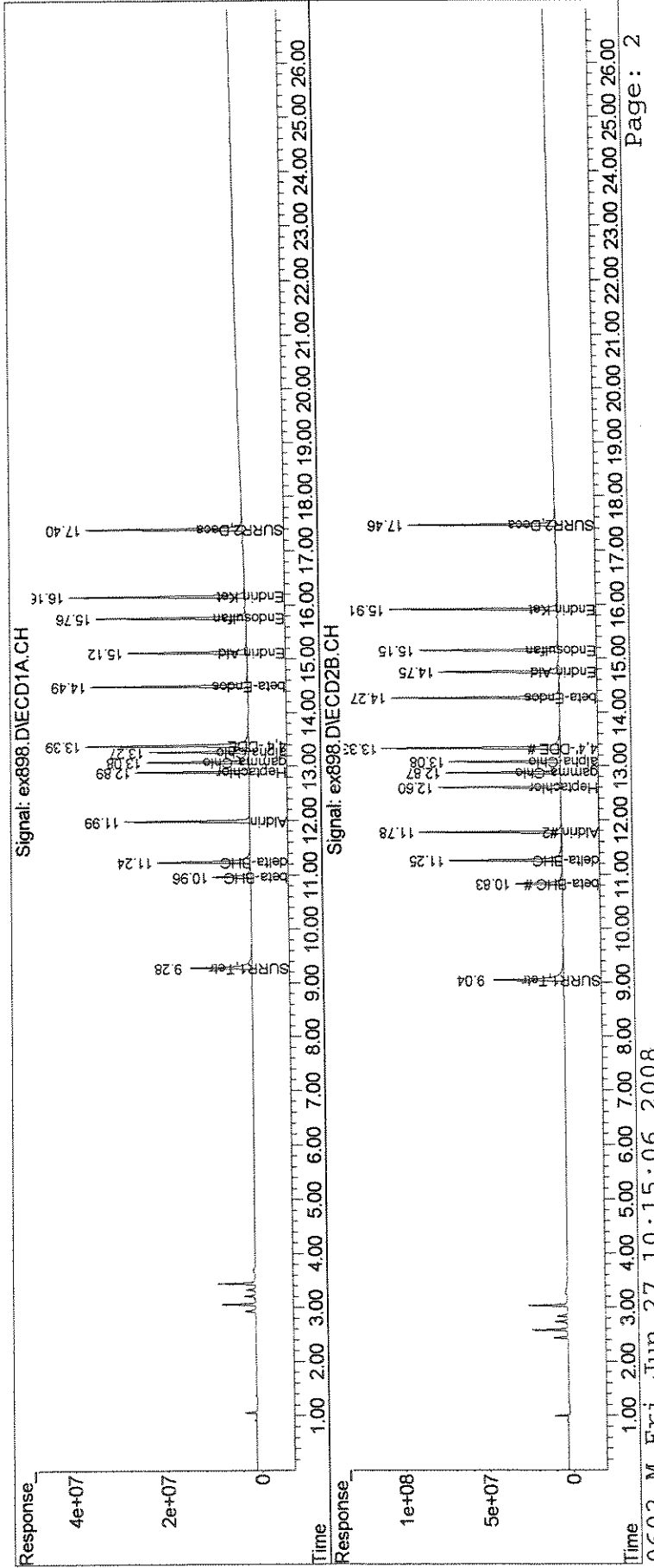
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.04	374.4E6	1280.9E6	19.878	20.993
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.88%#	20.99%#
25) S SURR2,Decachloro	17.40	17.46	680.5E6	1658.5E6	39.841	37.995
Spiked Amount	100.000	Range 30 - 150	Recovery =		39.84%	37.99%
Target Compounds						
6) tcm Aldrin	11.99	11.78	475.0E6	1422.7E6	19.297	18.983
7) tc beta-BHC	10.96	10.83	212.0E6	691.5E6	18.362	19.385
8) tc delta-BHC	11.24	11.26	476.5E6	1528.9E6	17.229	18.400
9) tc Heptachlor E	12.89	12.60	437.4E6	1239.2E6	18.982	18.442
11) tc gamma-Chlord	13.08	12.87	418.6E6	1227.4E6	18.365	17.604
12) tc alpha-Chlord	13.27	13.08	402.8E6	1188.9E6	18.028	17.901
13) tc 4,4'-DDE	13.39	13.33	819.6E6	2312.8E6	36.454	35.484
17) tc beta-Endosul	14.49	14.27	722.0E6	1966.9E6	36.731	35.862
20) tc Endrin Aldeh	15.12	14.75	562.4E6	1451.6E6	38.053	36.080
21) tc Endosulfan S	15.76	15.15	642.2E6	1695.1E6	35.406	34.152
24) tc Endrin Keton	16.16	15.91	760.5E6	1895.8E6	36.421	35.020
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.

Data Path : J:\ACQDATA\6890D\DATA\062608\
Data File : ex898.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2008 2:58 am
Operator : M.PEDRO
Sample : ccv29b
Misc : indbm
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 10:14:40 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



00977

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex906.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:39 am
 Operator : M.PEDRO
 Sample : ccv30a
 Misc : indam
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:26:48 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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	18.833	19.042 E6	-1.1	103	0.00
3 tc alpha-BHC	30.031	30.161 E6	-0.4	101	-0.01
4 tcm gamma-BHC (L	27.489	27.374 E6	0.4	100	-0.01
5 tcm Heptachlor	26.908	27.736 E6	-3.1	103	-0.02
10 tc alpha-Endosu	20.604	20.961 E6	-1.7	103	-0.02
14 tcm Dieldrin	23.283	23.920 E6	-2.7	102	-0.02
15 tcm Endrin	20.860	20.557 E6	1.5	98	-0.02
18 tc 4,4'-DDD	18.810	18.532 E6	1.5	99	-0.01
19 tcm 4,4'-DDT	20.032	19.350 E6	3.4	96	-0.02
22 tc Methoxychlor	9.870	9.820 E6	0.5	99	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	17.227 E6	-0.9	102	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	61.562 E6	-0.9	102	0.00
3 tc alpha-BHC	92.467	97.530 E6	-5.5	105	-0.02
4 tcm gamma-BHC (L	82.157	86.948 E6	-5.8	106	-0.02
5 tcm Heptachlor	79.864	83.426 E6	-4.5	104	-0.03
10 tc alpha-Endosu	59.586	60.283 E6	-1.2	101	-0.03
14 tcm Dieldrin	65.254	66.351 E6	-1.7	100	-0.04
15 tcm Endrin	56.721	57.831 E6	-2.0	101	-0.04
18 tc 4,4'-DDD	51.629	50.711 E6	1.8	97	-0.03
19 tcm 4,4'-DDT	54.800	51.319 E6	6.4	93	-0.03
22 tc Methoxychlor	24.116	23.414 E6	2.9	97	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	42.433 E6	2.8	98	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : ex906.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 8:39 am
 Operator : M.PEDRO
 Sample : ccv30a
 Misc : indam
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:26:48 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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
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 System Monitoring Compounds

1) S SURR1,Tetrac	9.28	9.05	380.8E6	1231.2E6	20.221	20.179
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.22%#	20.18%#
25) S SURR2,Decachloro	17.40	17.46	689.1E6	1697.3E6	40.342	38.884
Spiked Amount	100.000	Range 30 - 150	Recovery =		40.34%	38.88%

Target Compounds

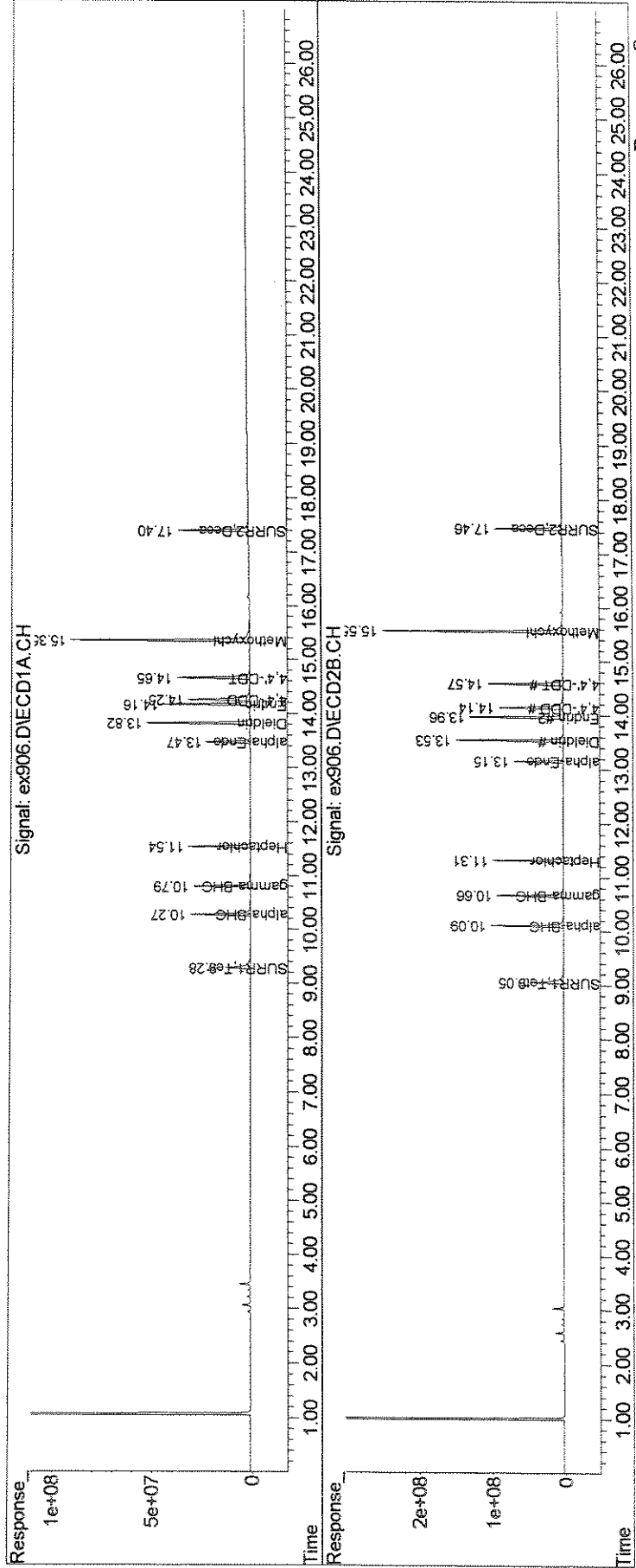
3) tc alpha-BHC	10.27	10.10	603.2E6	1950.6E6	20.087	21.095
4) tcm gamma-BHC (L	10.79	10.66	547.5E6	1739.0E6	19.916	21.166
5) tcm Heptachlor	11.54	11.31	554.7E6	1668.5E6	20.615	20.892
10) tc alpha-Endosu	13.47	13.15	419.2E6	1205.7E6	20.347	20.234
14) tcm Dieldrin	13.82	13.53	956.8E6	2654.0E6	41.095	40.672
15) tcm Endrin	14.16	13.96	822.3E6	2313.3E6	39.419	40.783
18) tc 4,4'-DDD	14.25	14.14	741.3E6	2028.4E6	39.410	39.289
19) tcm 4,4'-DDT	14.65	14.58	774.0E6	2052.7E6	38.639	37.459
22) tc Methoxychlor	15.35	15.55	1964.1E6	4682.8E6	199.001	194.182m
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.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:39 am
Operator : M.PEDRO
Sample : ccv30a
Misc : indam
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 09:26:48 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



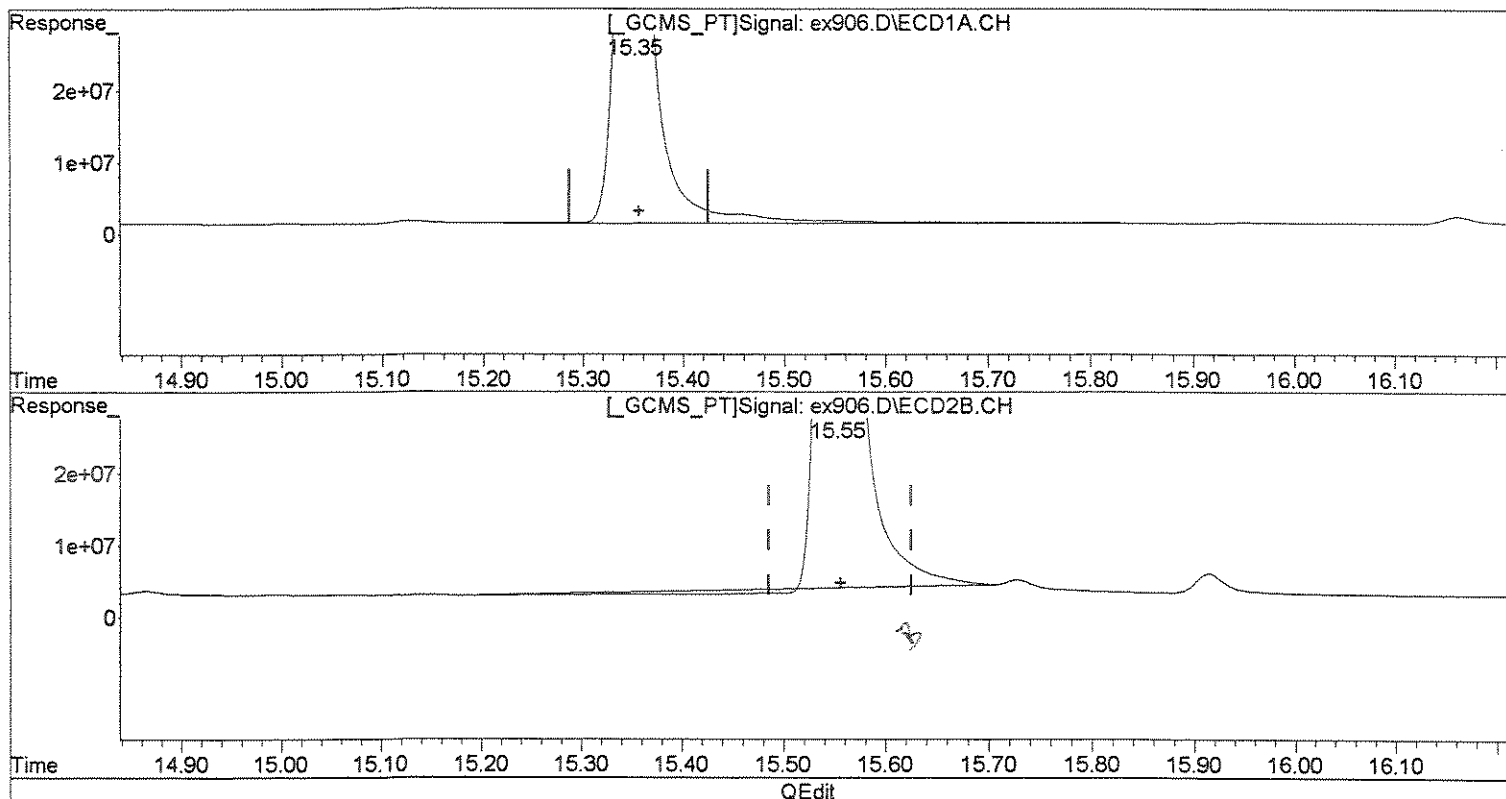
00990

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:39 am
Operator : M.PEDRO
Sample : ccv30a
Misc : indam
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:04:42 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(22) Methoxychlor (tc)
15.35min 199.001ug/l
response 1964097855

(22) Methoxychlor #2 (tc)
15.55min 189.167ug/l
response 4561902858

Bush

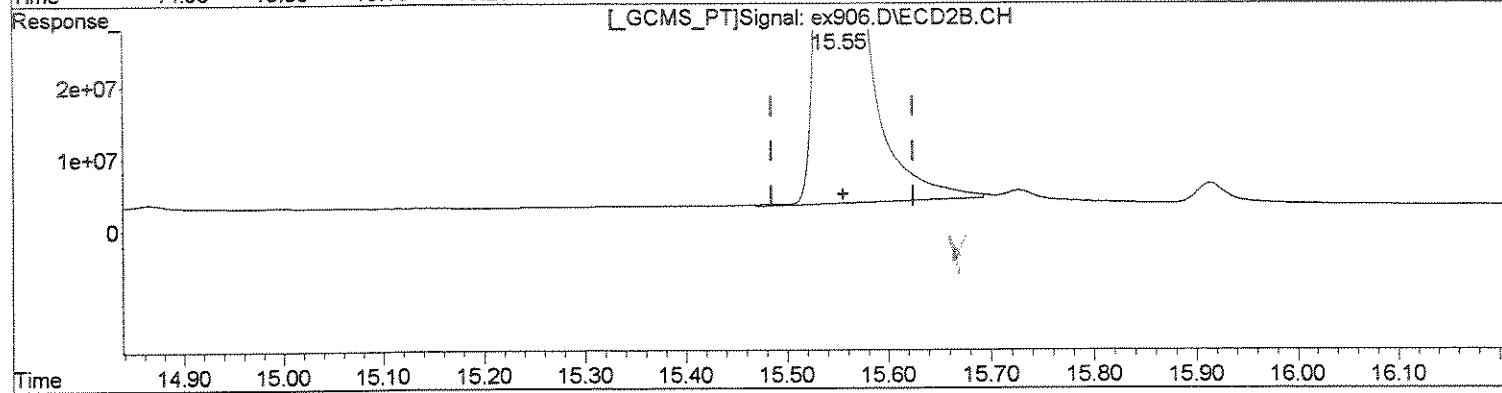
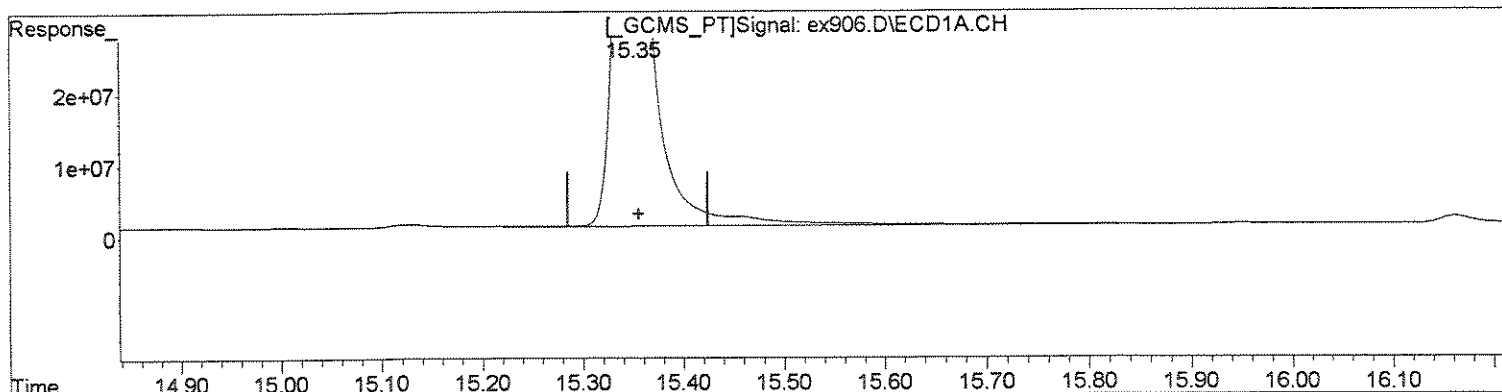
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 8:39 am
Operator : M.PEDRO
Sample : ccv30a
Misc : indam
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:04:42 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(22) Methoxychlor (tc)
15.35min 199.001ug/l
response 1964097855

(22) Methoxychlor #2 (tc)
15.55min 194.182ug/l m
response 4682821715

MLX 7/1
WY 7/1

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex907.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:15 am
 Operator : M.PEDRO
 Sample : ccv30b
 Misc : indbm
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:27:43 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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	18.833	18.578 E6	1.4	100	0.00
6 tcm Aldrin	24.613	23.582 E6	4.2	95	-0.02
7 tc beta-BHC	11.546	10.622 E6	8.0	92	0.00
8 TC delta-BHC	27.657	23.920 E6	13.5	85	0.00
9 tc Heptachlor E	23.041	21.774 E6	5.5	95	-0.02
11 tc gamma-Chlord	22.791	20.922 E6	8.2	92	-0.02
12 tc alpha-Chlord	22.346	20.510 E6	8.2	92	-0.02
13 tc 4,4'-DDE	22.482	20.164 E6	10.3	89	-0.01
17 tc beta-Endosul	19.657	18.441 E6	6.2	93	-0.02
20 tc Endrin Aldeh	14.779	13.900 E6	5.9	94	-0.03
21 tc Endosulfan S	18.138	15.858 E6	12.6	87	-0.03
24 tc Endrin Keton	20.882	18.894 E6	9.5	90	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.049 E6	0.2	101	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	64.323 E6	-5.4	106	0.00
6 tcm Aldrin	74.947	72.904 E6	2.7	96	-0.03
7 tc beta-BHC	35.673	34.858 E6	2.3	99	0.00
8 tc delta-BHC	83.093	75.993 E6	8.5	90	-0.01
9 tc Heptachlor E	67.193	63.331 E6	5.7	93	-0.04
11 tc gamma-Chlord	69.724	62.815 E6	9.9	90	-0.03
12 tc alpha-Chlord	66.415	61.058 E6	8.1	92	-0.03
13 tc 4,4'-DDE	65.177	58.534 E6	10.2	89	-0.03
17 tc beta-Endosul	54.846	50.255 E6	8.4	91	-0.04
20 tc Endrin Aldeh	40.233	36.523 E6	9.2	90	-0.04
21 tc Endosulfan S	49.634	43.121 E6	13.1	86	-0.04
24 tc Endrin Keton	54.137	48.271 E6	10.8	88	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	42.324 E6	3.0	98	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex907.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 9:15 am
 Operator : M.PEDRO
 Sample : ccv30b
 Misc : indbm
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:27:43 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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	9.29	9.05	371.6E6	1286.5E6	19.729	21.084
Spiked Amount	100.000	Range 30 - 150	Recovery =		19.73%#	21.08%#
2) S SURR2,Decachloro	17.40	17.46	682.0E6	1693.0E6	39.928	38.784
Spiked Amount	100.000	Range 30 - 150	Recovery =		39.93%	38.78%
Target Compounds						
6) tcm Aldrin	11.99	11.78	471.6E6	1458.1E6	19.162	19.455
7) tc beta-BHC	10.97	10.83	212.4E6	697.2E6	18.399	19.543
8) tc delta-BHC	11.24	11.26	478.4E6	1519.9E6	17.298	18.291
9) tc Heptachlor E	12.90	12.60	435.5E6	1266.6E6	18.900	18.851
11) tc gamma-Chlord	13.08	12.87	418.4E6	1256.3E6	18.360	18.018
12) tc alpha-Chlord	13.27	13.08	410.2E6	1221.2E6	18.356	18.387
13) tc 4,4'-DDE	13.39	13.33	806.5E6	2341.3E6	35.876	35.923
17) tc beta-Endosul	14.50	14.27	737.6E6	2010.2E6	37.525	36.652
20) tc Endrin Aldeh	15.12	14.75	556.0E6	1460.9E6	37.621	36.312
21) tc Endosulfan S	15.76	15.15	634.3E6	1724.8E6	34.973	34.751
24) tc Endrin Keton	16.16	15.91	755.8E6	1930.8E6	36.192	35.666
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.

Evaluate Continuing Calibration Report

Data Path : J:\ACQUATA\6890D\DATA\063008\
 Data File : ex917.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 3:27 pm
 Operator : M.PEDRO
 Sample : ccv31a
 Misc : indam
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:50:43 2008
 Quant Method : J:\ACQUATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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	18.833	19.814 E6	-5.2	107	0.00
3 tc alpha-BHC	30.031	31.240 E6	-4.0	104	-0.01
4 tcm gamma-BHC (L	27.489	28.168 E6	-2.5	103	-0.01
5 tcm Heptachlor	26.908	28.727 E6	-6.8	107	-0.02
10 tc alpha-Endosu	20.604	21.610 E6	-4.9	106	-0.02
14 tcm Dieldrin	23.283	24.604 E6	-5.7	105	-0.03
15 tcm Endrin	20.860	21.225 E6	-1.7	101	-0.03
18 tc 4,4'-DDD	18.810	19.104 E6	-1.6	102	-0.02
19 tcm 4,4'-DDT	20.032	19.969 E6	0.3	99	-0.02
22 tc Methoxychlor	9.870	10.229 E6	-3.6	103	-0.02
25 S SURR2,Decachlorobiphenyl	17.080	17.959 E6	-5.1	107	-0.03

Signal #2

1 S SURR1,Tetrac	61.016	64.067 E6	-5.0	106	0.00
3 tc alpha-BHC	92.467	100.683 E6	-8.9	108	-0.02
4 tcm gamma-BHC (L	82.157	90.735 E6	-10.4	111	-0.03
5 tcm Heptachlor	79.864	87.574 E6	-9.7	109	-0.03
10 tc alpha-Endosu	59.586	62.519 E6	-4.9	104	-0.04
14 tcm Dieldrin	65.254	68.638 E6	-5.2	104	-0.04
15 tcm Endrin	56.721	60.150 E6	-6.0	105	-0.04
18 tc 4,4'-DDD	51.629	52.731 E6	-2.1	101	-0.03
19 tcm 4,4'-DDT	54.800	53.728 E6	2.0	97	-0.04
22 tc Methoxychlor	24.116	24.418 E6	-1.3	101	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	44.127 E6	-1.1	102	-0.04

Evaluate Continuing Calibration Report - Not Found

2 TC HEXACHLOROBENZENE	27.165	0.000 E6	100.0#	0#	-9.98#
6 tcm Aldrin	24.613	0.000 E6	100.0#	0#	-12.01#

Data Path : J:\ACQUADATA\6890D\DATA\063008\
 Data File : ex917.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 3:27 pm
 Operator : M.PEDRO
 Sample : ccv31a
 Misc : indam
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:50:43 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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/1	ug/1

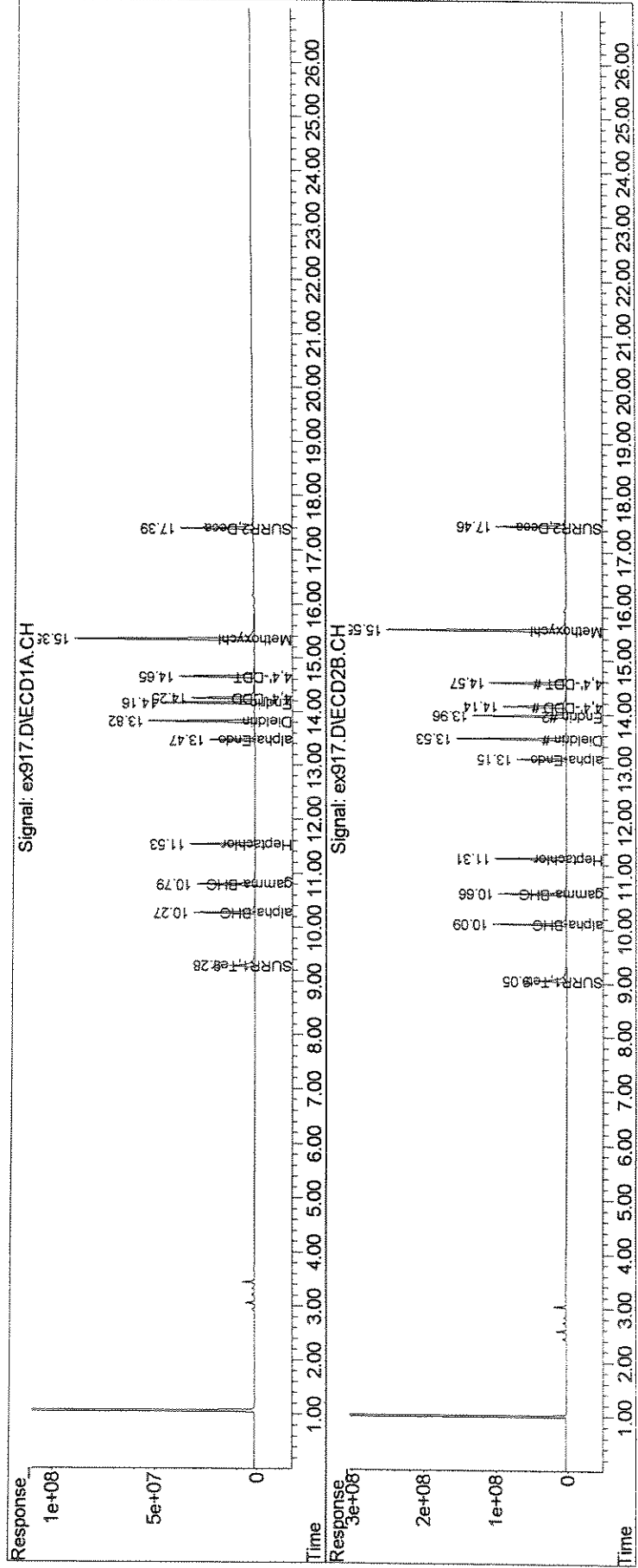
System Monitoring Compounds						
1) S SURR1,Tetrac	9.28	9.05	396.3E6	1281.3E6	21.041	21.000
Spiked Amount	100.000	Range	30 - 150	Recovery	=	21.04%# 21.00%#
25) S SURR2,Decachloro	17.39	17.46	718.4E6	1765.1E6	42.058	40.437
Spiked Amount	100.000	Range	30 - 150	Recovery	=	42.06% 40.44% <i>my</i>
Target Compounds						
3) tc alpha-BHC	10.27	10.09	624.8E6	2013.7E6	20.805	21.777
4) tcm gamma-BHC (L	10.79	10.66	563.4E6	1814.7E6	20.494	22.088
5) tcm Heptachlor	11.54	11.31	574.5E6	1751.5E6	21.352	21.931
10) tc alpha-Endosu	13.47	13.15	432.2E6	1250.4E6	20.977	20.984
14) tcm Dieldrin	13.82	13.53	984.2E6	2745.5E6	42.269	42.074
15) tcm Endrin	14.16	13.96	849.0E6	2406.0E6	40.701	42.418
18) tc 4,4'-DDD	14.25	14.14	764.1E6	2109.2E6	40.625	40.854
19) tcm 4,4'-DDT	14.65	14.57	798.7E6	2149.1E6	39.874	39.217
22) tc Methoxychlor	15.35	15.55	2045.7E6	4883.7E6	207.273	202.511m
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.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex917.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 3:27 pm
 Operator : M.PEDRO
 Sample : ccv31a
 Misc : indam
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:50:43 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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

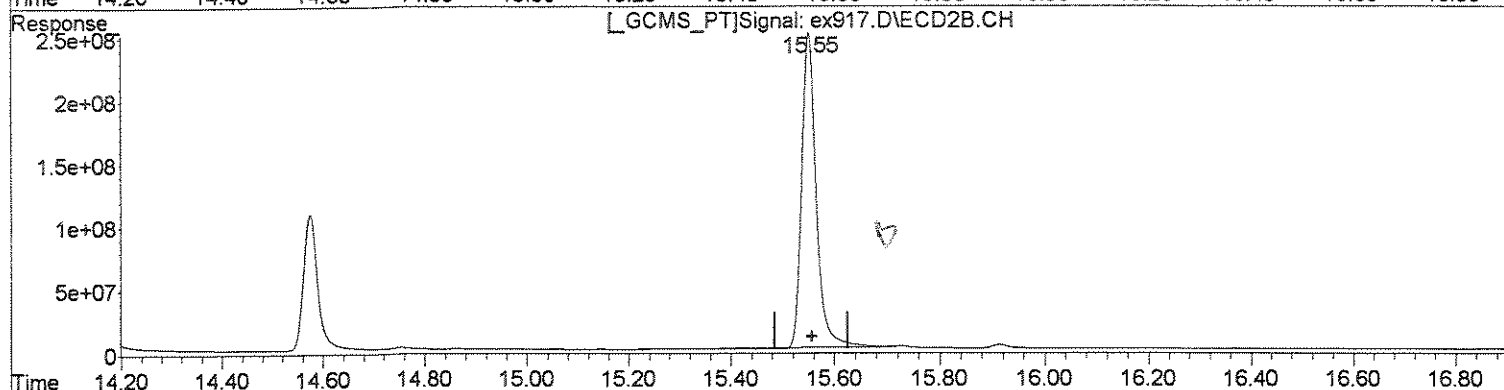
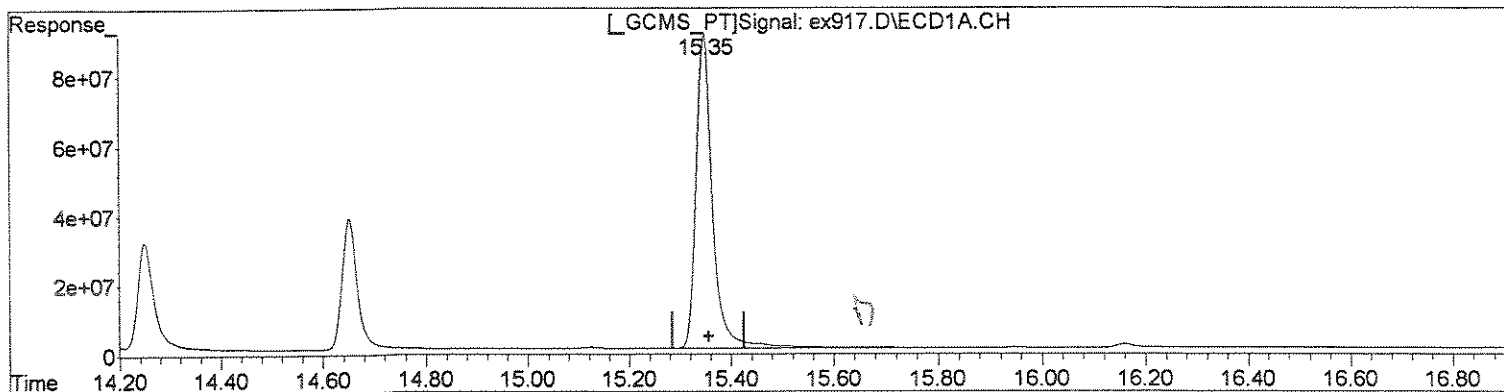


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 3:27 pm
Operator : M.PEDRO
Sample : ccv31a
Misc : indam
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:01 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(22) Methoxychlor (tc)
15.35min 207.273ug/l
response 2045744908

(22) Methoxychlor #2 (tc)
15.55min 196.935ug/l
response 4749218168

Handwritten signature

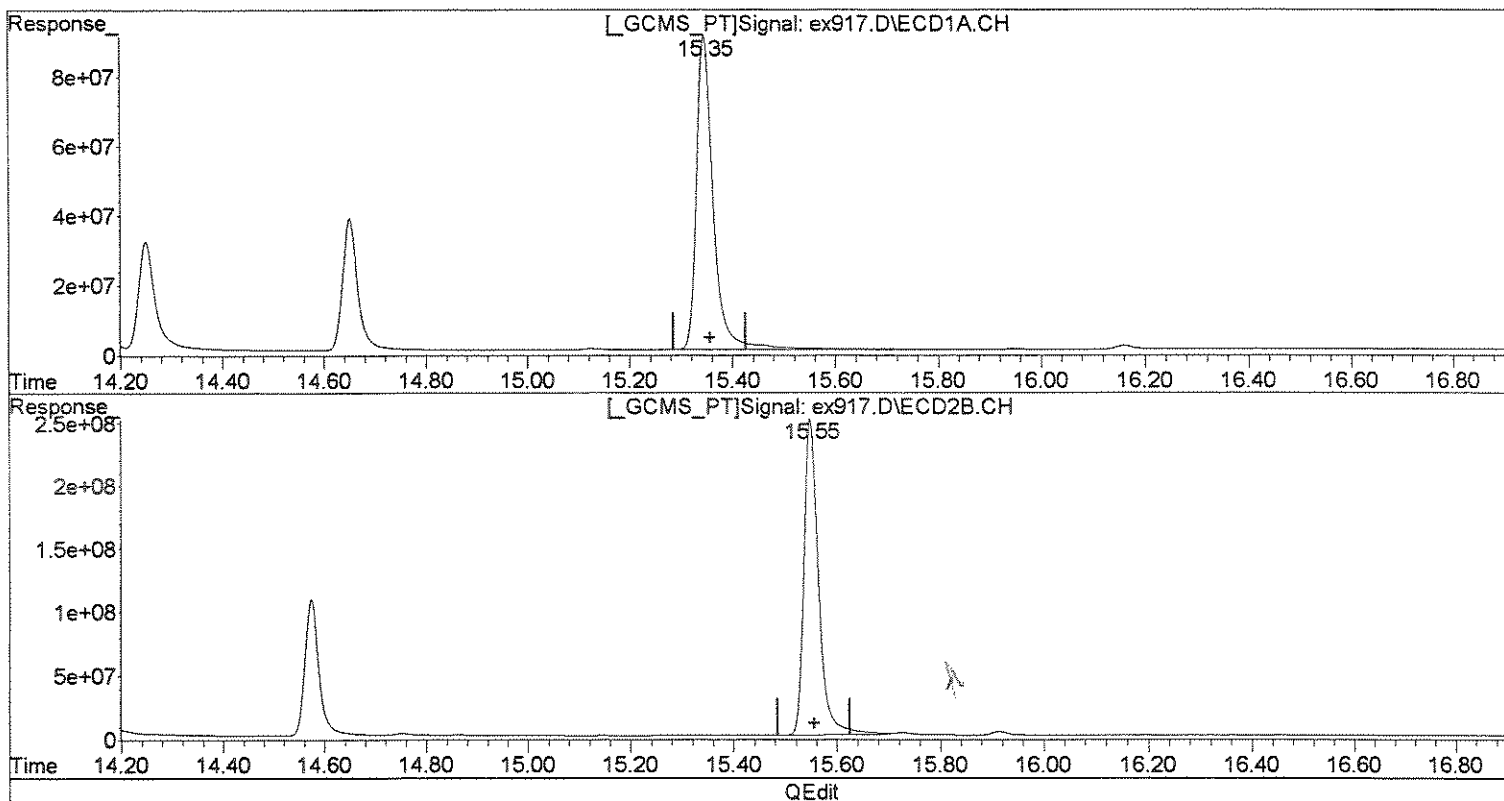
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 3:27 pm
Operator : M.PEDRO
Sample : ccv31a
Misc : indam
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:06:01 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(22) Methoxychlor (tc)
15.35min 207.273ug/l
response 2045744908

(22) Methoxychlor #2 (tc)
15.55min 202.511ug/l m
response 4883698308

(+) = Expected Retention Time

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex918.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 4:02 pm
 Operator : M.PEDRO
 Sample : ccv31b
 Misc : indbm
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:51:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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	18.833	19.476 E6	-3.4	105	0.00
6 tcm Aldrin	24.613	24.634 E6	-0.1	100	-0.02
7 tc beta-BHC	11.546	11.097 E6	3.9	96	0.00
8 TC delta-BHC	27.657	25.187 E6	8.9	90	0.00
9 tc Heptachlor E	23.041	22.692 E6	1.5	99	-0.02
11 tc gamma-Chlord	22.791	21.763 E6	4.5	96	-0.02
12 tc alpha-Chlord	22.346	21.307 E6	4.6	96	-0.02
13 tc 4,4'-DDE	22.482	21.064 E6	6.3	93	-0.01
17 tc beta-Endosul	19.657	19.118 E6	2.7	96	-0.02
20 tc Endrin Aldeh	14.779	14.550 E6	1.5	98	-0.03
21 tc Endosulfan S	18.138	16.663 E6	8.1	91	-0.03
24 tc Endrin Keton	20.882	19.756 E6	5.4	94	-0.03
25 S SURR2,Decachlorobiphenyl	17.080	17.807 E6	-4.3	106	-0.02

Signal #2

1 S SURR1,Tetrac	61.016	67.645 E6	-10.9	112	0.00
6 tcm Aldrin	74.947	76.459 E6	-2.0	101	-0.03
7 tc beta-BHC	35.673	36.540 E6	-2.4	103	0.00
8 tc delta-BHC	83.093	80.182 E6	3.5	95	-0.01
9 tc Heptachlor E	67.193	66.207 E6	1.5	98	-0.04
11 tc gamma-Chlord	69.724	65.650 E6	5.8	94	-0.03
12 tc alpha-Chlord	66.415	63.950 E6	3.7	96	-0.04
13 tc 4,4'-DDE	65.177	61.514 E6	5.6	93	-0.03
17 tc beta-Endosul	54.846	52.389 E6	4.5	94	-0.04
20 tc Endrin Aldeh	40.233	38.427 E6	4.5	94	-0.04
21 tc Endosulfan S	49.634	45.294 E6	8.7	90	-0.04
24 tc Endrin Keton	54.137	50.607 E6	6.5	93	-0.04
25 S SURR2,Decachlorobiphenyl	43.651	43.791 E6	-0.3	101	-0.04

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex918.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 4:02 pm
 Operator : M.PEDRO
 Sample : ccv31b
 Misc : indbm
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:51:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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

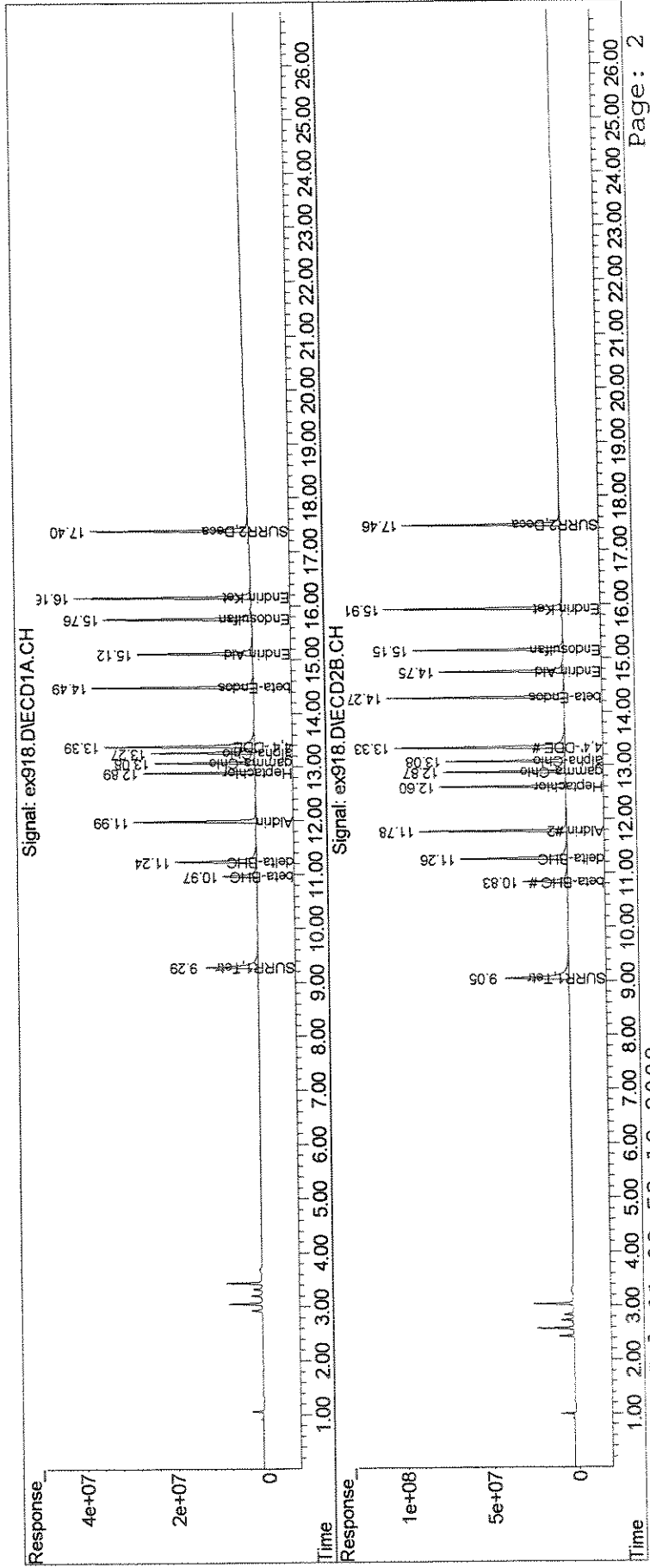
System Monitoring Compounds						
1) S SURR1,Tetrac	9.29	9.05	389.5E6	1352.9E6	20.682	22.173
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.68%#	22.17%#
25) S SURR2,Decachloro	17.40	17.46	712.3E6	1751.7E6	41.703	40.129
Spiked Amount	100.000	Range 30 - 150	Recovery =		41.70%	40.13%
Target Compounds						
6) tcm Aldrin	11.99	11.78	492.7E6	1529.2E6	20.017	20.403
7) tc beta-BHC	10.97	10.83	221.9E6	730.8E6	19.223	20.486
8) tc delta-BHC	11.24	11.26	503.7E6	1603.6E6	18.214	19.299
9) tc Heptachlor E	12.89	12.60	453.8E6	1324.1E6	19.697	19.706
11) tc gamma-Chlord	13.08	12.87	435.3E6	1313.0E6	19.098	18.832
12) tc alpha-Chlord	13.27	13.08	426.1E6	1279.0E6	19.070	19.258
13) tc 4,4'-DDE	13.39	13.33	842.6E6	2460.6E6	37.478	37.752
17) tc beta-Endosul	14.49	14.27	764.7E6	2095.6E6	38.903	38.208
20) tc Endrin Aldeh	15.12	14.75	582.0E6	1537.1E6	39.380	38.204
21) tc Endosulfan S	15.76	15.15	666.5E6	1811.7E6	36.747	36.502
24) tc Endrin Keton	16.16	15.91	790.3E6	2024.3E6	37.844	37.392
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.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex918.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 4:02 pm
 Operator : M.PEDRO
 Sample : ccv31b
 Misc : indbm
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:51:51 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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 : ey066.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 10:09 am
 Operator : M.PEDRO
 Sample : ccv1a
 Misc : indamh
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:09:43 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	20.279 E6	-0.5	100	0.00
3 tc alpha-BHC	30.916	31.340 E6	-1.4	100	0.00
4 tcm gamma-BHC (L	28.206	28.530 E6	-1.1	100	0.00
5 tcm Heptachlor	27.944	28.162 E6	-0.8	100	0.00
10 tc alpha-Endosu	20.460	20.586 E6	-0.6	100	0.00
14 tcm Dieldrin	22.843	23.381 E6	-2.4	101	0.00
15 tcm Endrin	20.719	21.060 E6	-1.6	100	0.00
18 tc 4,4'-DDD	17.994	18.322 E6	-1.8	104	0.00
19 tcm 4,4'-DDT	19.138	19.802 E6	-3.5	101	0.00
22 tc Methoxychlor	9.313	9.428 E6	-1.2	99	0.00
25 S SURR2,Decachlorobiphenyl	17.465	16.863 E6	3.4	96	0.00

Signal #2

1 S SURR1,Tetrac	80.920	86.290 E6	-6.6	106	0.00
3 tc alpha-BHC	118.675	128.838 E6	-8.6	107	0.00
4 tcm gamma-BHC (L	105.076	113.531 E6	-8.0	106	0.00
5 tcm Heptachlor	100.362	108.629 E6	-8.2	106	0.00
10 tc alpha-Endosu	70.973	78.972 E6	-11.3	108	0.00
14 tcm Dieldrin	78.244	85.303 E6	-9.0	107	0.00
15 tcm Endrin	67.355	75.465 E6	-12.0	107	0.00
18 tc 4,4'-DDD	62.240	68.168 E6	-9.5	108	0.00
19 tcm 4,4'-DDT	65.507	71.876 E6	-9.7	108	0.00
22 tc Methoxychlor	29.053	31.659 E6	-9.0	107	0.00
25 S SURR2,Decachlorobiphenyl	55.075	59.697 E6	-8.4	107	0.00

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:\ACQUADATA\6890D\DATA\071008\
 Data File : ey066.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 10:09 am
 Operator : M.PEDRO
 Sample : ccv1a
 Misc : indamh
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:09:43 2008
 Quant Method : J:\ACQUADATA\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

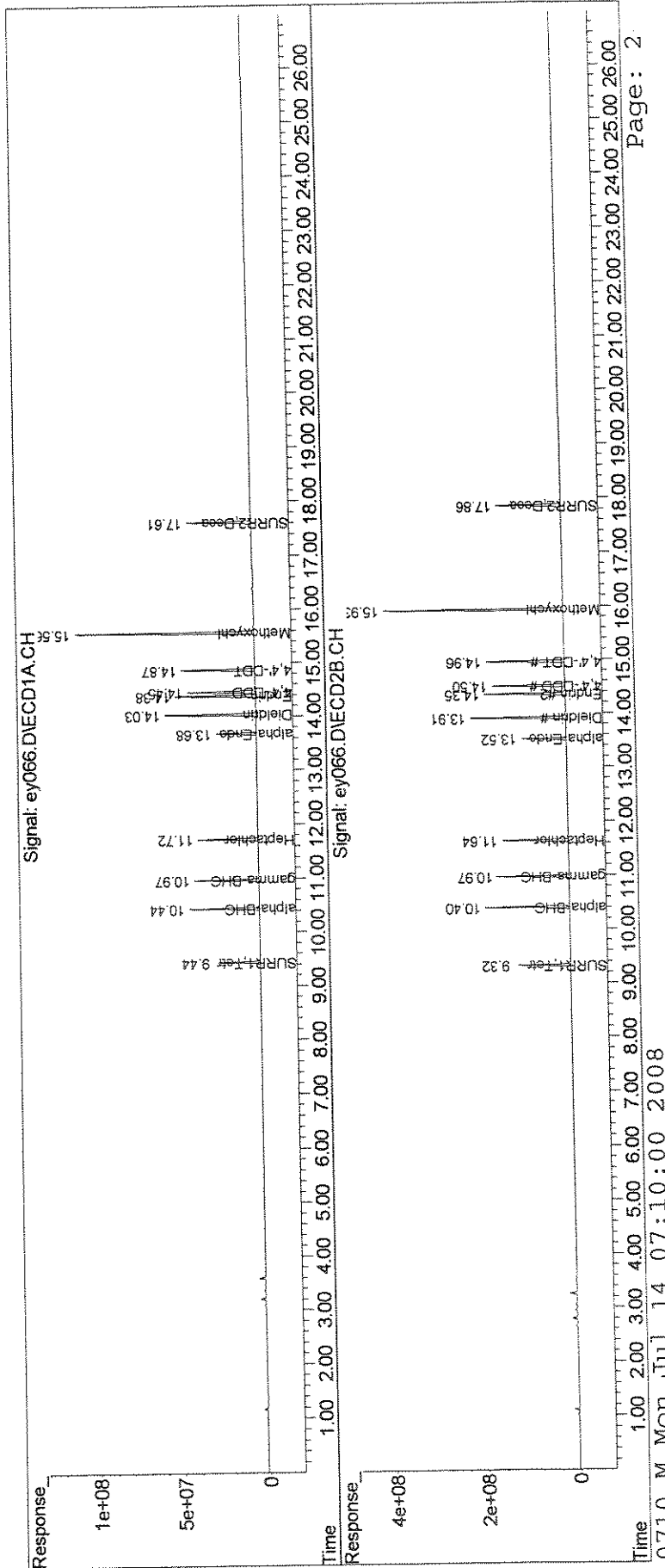
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	405.6E6	1725.8E6	20.097	21.327
Spiked Amount	100.000	Range 30 - 150	Recovery =		20.10%#	21.33%#
5) S SURR2,Decachloro	17.61	17.86	674.5E6	2387.9E6	38.621m	43.357m
Spiked Amount	100.000	Range 30 - 150	Recovery =		38.62%	43.36%
Target Compounds						
3) tc alpha-BHC	10.44	10.40	626.8E6	2576.8E6	20.274	21.713
4) tcm gamma-BHC (L)	10.97	10.97	570.6E6	2270.6E6	20.230	21.609
5) tcm Heptachlor	11.72	11.64	563.2E6	2172.6E6	20.156	21.647
0) tc alpha-Endosu	13.68	13.52	411.7E6	1579.4E6	20.123	22.254
4) tcm Dieldrin	14.03	13.91	935.2E6	3412.1E6	40.942	43.609
5) tcm Endrin	14.38	14.35	842.4E6	3018.6E6	40.658	44.816
8) tc 4,4'-DDD	14.45	14.50	732.9E6	2726.7E6	40.730	43.810
9) tcm 4,4'-DDT	14.87	14.96	792.1E6	2875.0E6	41.389	43.889
2) tc Methoxychlor	15.56	15.93	1885.6E6	6331.8E6	202.470	217.937
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.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey066.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 10:09 am
 Operator : M.PEDRO
 Sample : ccv1a
 Misc : indamh
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:09:43 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

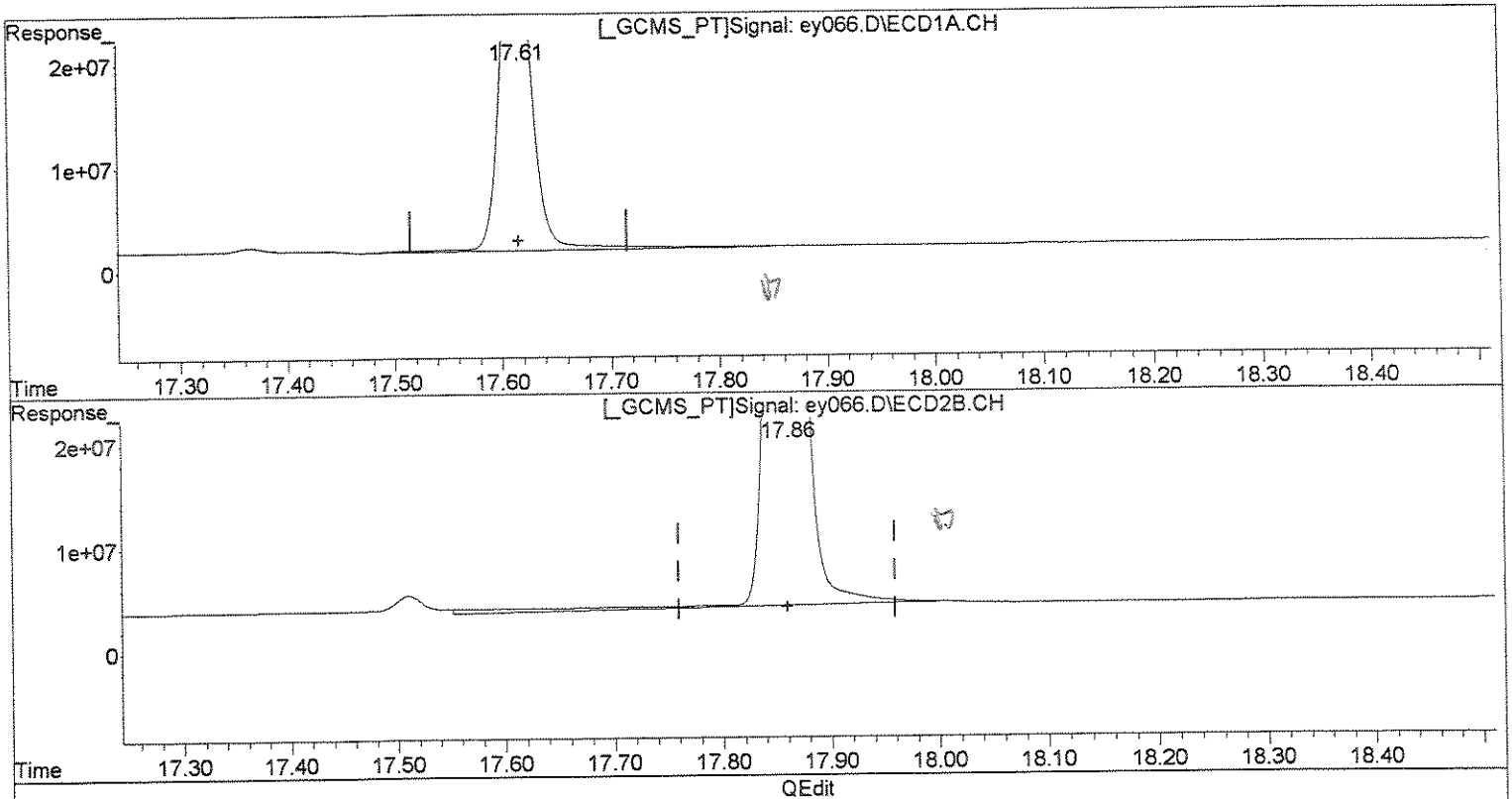


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey066.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 10:09 am
Operator : M.PEDRO
Sample : ccv1a
Misc : indamh
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:50:27 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



(25) SURR2,Decachlorobiphenyl (S)
17.61min 40.329ug/l
response 704361263

handwritten mark

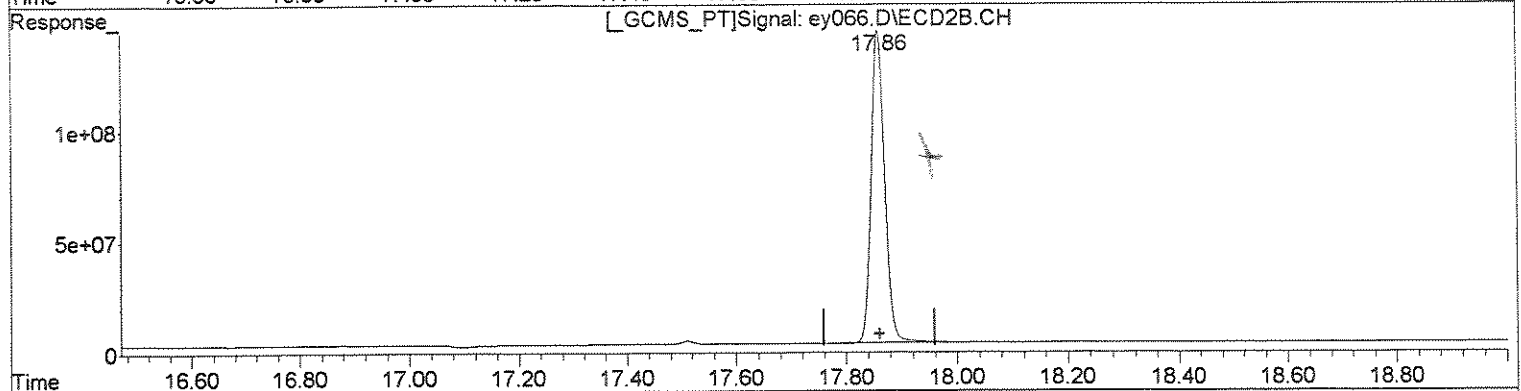
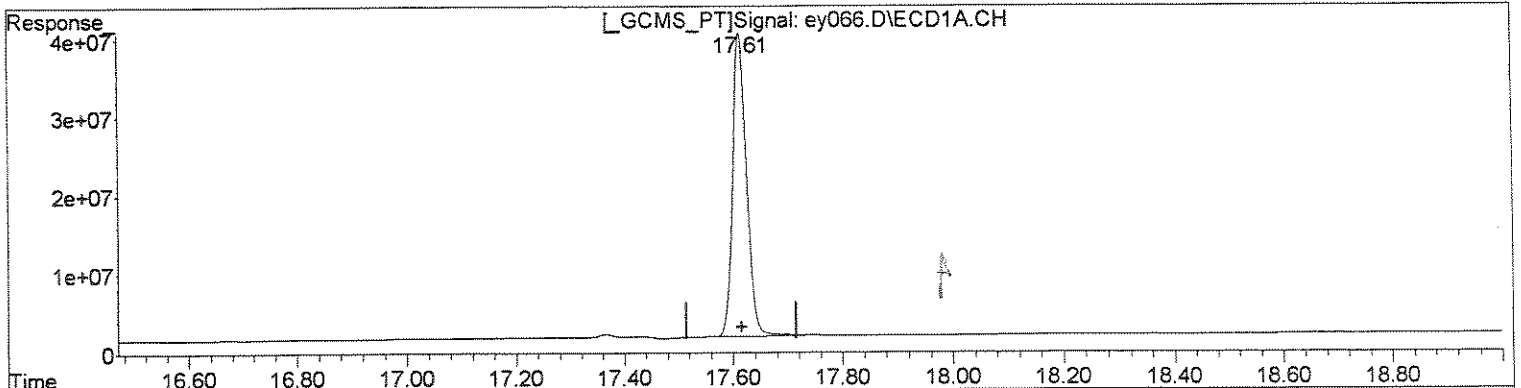
(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 44.079ug/l
response 2427654490

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey066.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 10:09 am
Operator : M.PEDRO
Sample : ccvla
Misc : indamh
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:50:27 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



(25) SURR2,Decachlorobiphenyl (S)
17.61min 38.621ug/l m
response 674530923

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 43.357ug/l m
response 2387876573

Handwritten signature
7/14

Handwritten signature
7/14

Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : ey067.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 10:44 am
 Operator : M.PEDRO
 Sample : ccvlb
 Misc : indbmh
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:10:36 2008
 Quant Method : J:\ACQUADATA\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	20.491 E6	-1.5	101	0.00
6 tcm Aldrin	24.759	24.936 E6	-0.7	100	0.00
7 tc beta-BHC	11.483	11.089 E6	3.4	99	0.00
8 TC delta-BHC	27.198	27.153 E6	0.2	99	0.00
9 tc Heptachlor E	22.762	22.862 E6	-0.4	100	0.00
11 tc gamma-Chlord	21.924	21.941 E6	-0.1	101	0.00
12 tc alpha-Chlord	21.387	21.336 E6	0.2	100	0.00
13 tc 4,4'-DDE	21.781	22.112 E6	-1.5	101	0.00
17 tc beta-Endosul	18.589	18.838 E6	-1.3	101	0.00
20 tc Endrin Aldeh	14.678	14.784 E6	-0.7	100	0.00
21 tc Endosulfan S	16.846	16.920 E6	-0.4	101	0.00
24 tc Endrin Keton	19.363	19.483 E6	-0.6	100	0.00
25 S SURR2,Decachlorobiphenyl	17.465	17.698 E6	-1.3	101	0.00

20
7/14

Signal #2

1 S SURR1,Tetrac	80.920	88.099 E6	-8.9	108	0.00
6 tcm Aldrin	91.095	97.576 E6	-7.1	105	0.00
7 tc beta-BHC	45.130	47.569 E6	-5.4	105	0.00
8 tc delta-BHC	103.241	109.901 E6	-6.5	105	0.00
9 tc Heptachlor E	80.396	85.006 E6	-5.7	104	0.00
11 tc gamma-Chlord	82.026	87.053 E6	-6.1	105	0.00
12 tc alpha-Chlord	77.670	82.618 E6	-6.4	106	0.00
13 tc 4,4'-DDE	76.653	82.215 E6	-7.3	105	0.00
17 tc beta-Endosul	64.198	68.720 E6	-7.0	106	0.00
20 tc Endrin Aldeh	49.048	52.323 E6	-6.7	105	0.00
21 tc Endosulfan S	57.148	60.878 E6	-6.5	105	0.00
24 tc Endrin Keton	62.732	67.278 E6	-7.2	106	0.00
25 S SURR2,Decachlorobiphenyl	55.075	59.991 E6	-8.9	108	0.00

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey067.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 10:44 am
 Operator : M.PEDRO
 Sample : ccv1b
 Misc : indbmh
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:10:36 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	409.8E6	1762.0E6	20.308	21.774
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.31%#	21.77%#
25) S SURR2,Decachloro	17.61	17.86	707.9E6	2399.6E6	40.533	43.570
Spiked Amount	100.000	Range	30 - 150	Recovery =	40.53%	43.57%
Target Compounds						
6) tcm Aldrin	12.18	12.12	498.7E6	1951.5E6	20.143	21.423
7) tc beta-BHC	11.12	11.12	221.8E6	951.4E6	19.314	21.081
8) tc delta-BHC	11.40	11.56	543.1E6	2198.0E6	19.967	21.290
9) tc Heptachlor E	13.10	12.96	457.2E6	1700.1E6	20.088	21.147
11) tc gamma-Chlord	13.28	13.23	438.8E6	1741.1E6	20.015	21.226
12) tc alpha-Chlord	13.47	13.44	426.7E6	1652.4E6	19.952	21.274
13) tc 4,4'-DDE	13.58	13.68	884.5E6	3288.6E6	40.608	42.903
17) tc beta-Endosul	14.72	14.66	753.5E6	2748.8E6	40.537	42.818
20) tc Endrin Aldeh	15.35	15.16	591.4E6	2092.9E6	40.290	42.671
21) tc Endosulfan S	15.99	15.57	676.8E6	2435.1E6	40.174	42.611
24) tc Endrin Keton	16.38	16.32	779.3E6	2691.1E6	40.247	42.899
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

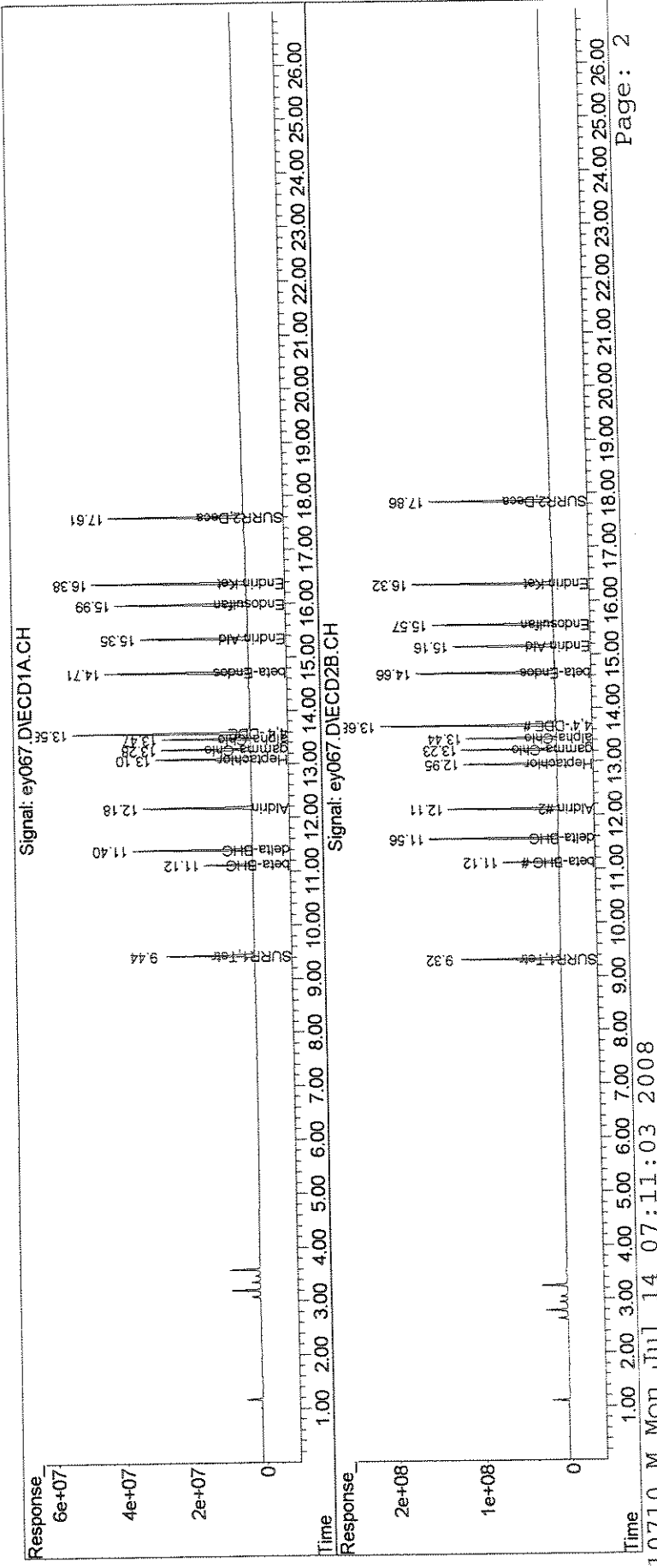
7/14

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey067.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 10:44 am
Operator : M.PEDRO
Sample : ccv1b
Misc : indbmh
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 07:10:36 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



01001

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey077.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 4:41 pm
 Operator : M.PEDRO
 Sample : ccv2a
 Misc : indam
 ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:23:19 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	20.319 E6	-0.7	100	0.00
3 tc alpha-BHC	30.916	31.636 E6	-2.3	101	0.00
4 tcm gamma-BHC (L	28.206	28.844 E6	-2.3	101	0.00
5 tcm Heptachlor	27.944	28.576 E6	-2.3	101	0.00
10 tc alpha-Endosu	20.460	20.952 E6	-2.4	102	0.00
14 tcm Dieldrin	22.843	23.784 E6	-4.1	102	0.00
15 tcm Endrin	20.719	21.470 E6	-3.6	102	0.00
18 tc 4,4'-DDD	17.994	18.660 E6	-3.7	106	0.00
19 tcm 4,4'-DDT	19.138	20.222 E6	-5.7	103	0.00
22 tc Methoxychlor	9.313	9.609 E6	-3.2	101	0.00
25 S SURR2,Decachlorobiphenyl	17.465	18.209 E6	-4.3	104	0.00

Signal #2

1 S SURR1,Tetrac	80.920	83.800 E6	-3.6	102	0.00
3 tc alpha-BHC	118.675	124.488 E6	-4.9	103	0.00
4 tcm gamma-BHC (L	105.076	109.991 E6	-4.7	103	0.00
5 tcm Heptachlor	100.362	105.944 E6	-5.6	104	0.00
10 tc alpha-Endosu	70.973	76.460 E6	-7.7	105	0.00
14 tcm Dieldrin	78.244	83.158 E6	-6.3	104	0.00
15 tcm Endrin	67.355	73.766 E6	-9.5	105	0.00
18 tc 4,4'-DDD	62.240	66.288 E6	-6.5	105	0.00
19 tcm 4,4'-DDT	65.507	70.537 E6	-7.7	106	0.00
22 tc Methoxychlor	29.053	30.337 E6	-4.4	103	0.00
25 S SURR2,Decachlorobiphenyl	55.075	57.185 E6	-3.8	103	0.00

Evaluate Continuing Calibration Report - Not Found

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:\ACQUADATA\6890D\DATA\071008\
 Data File : ey077.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 4:41 pm
 Operator : M.PEDRO
 Sample : ccv2a
 Misc : indam
 ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:23:19 2008
 Quant Method : J:\ACQUADATA\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

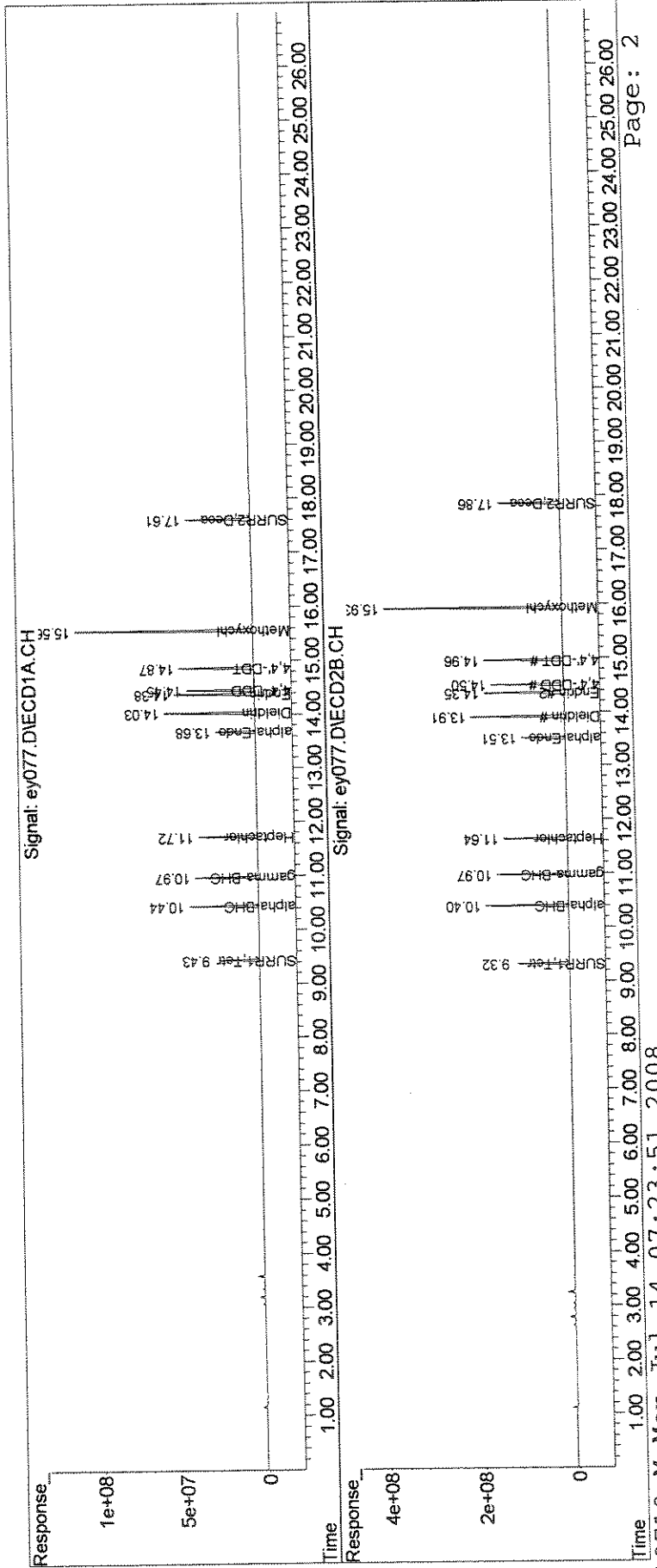
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	406.4E6	1676.0E6	20.137	20.712
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.14%#	20.71%#
5) S SURR2,Decachloro	17.61	17.86	728.4E6	2287.4E6	41.704	41.532
Spiked Amount	100.000	Range	30 - 150	Recovery =	41.70%	41.53%
Target Compounds						
3) tc alpha-BHC	10.44	10.40	632.7E6	2489.8E6	20.466	20.980
4) tcm gamma-BHC (L	10.97	10.97	576.9E6	2199.8E6	20.453	20.936
5) tcm Heptachlor	11.72	11.64	571.5E6	2118.9E6	20.452	21.112
10) tc alpha-Endosu	13.68	13.52	419.0E6	1529.2E6	20.481	21.546
14) tcm Dieldrin	14.03	13.91	951.4E6	3326.3E6	41.648	42.512
15) tcm Endrin	14.38	14.35	858.8E6	2950.6E6	41.450	43.807
18) tc 4,4'-DDD	14.45	14.50	746.4E6	2651.5E6	41.482	42.602
19) tcm 4,4'-DDT	14.87	14.96	808.9E6	2821.5E6	42.268	43.071
22) tc Methoxychlor	15.56	15.93	1921.7E6	6067.4E6	206.354	208.837
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.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey077.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 4:41 pm
 Operator : M.PEDRO
 Sample : ccv2a
 Misc : indam
 ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:23:19 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



010001

Evaluate Continuing Calibration Report

Data Path : J:\ACQUADATA\6890D\DATA\071008\
 Data File : ey078.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 5:16 pm
 Operator : M.PEDRO
 Sample : ccv2b
 Misc : indbm
 ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:24:17 2008
 Quant Method : J:\ACQUADATA\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	20.770 E6	-2.9	103	0.00
6 tcm Aldrin	24.759	25.521 E6	-3.1	102	0.00
7 tc beta-BHC	11.483	11.357 E6	1.1	101	0.00
8 TC delta-BHC	27.198	27.816 E6	-2.3	101	0.00
9 tc Heptachlor E	22.762	23.412 E6	-2.9	103	0.00
11 tc gamma-Chlord	21.924	22.519 E6	-2.7	103	0.00
12 tc alpha-Chlord	21.387	21.829 E6	-2.1	103	0.00
13 tc 4,4'-DDE	21.781	22.751 E6	-4.5	104	0.00
17 tc beta-Endosul	18.589	19.352 E6	-4.1	104	0.00
20 tc Endrin Aldeh	14.678	15.225 E6	-3.7	103	0.00
21 tc Endosulfan S	16.846	17.392 E6	-3.2	103	0.00
24 tc Endrin Keton	19.363	20.010 E6	-3.3	103	0.00
25 S SURR2,Decachlorobiphenyl	17.465	18.132 E6	-3.8	103	0.00

Signal #2

1 S SURR1,Tetrac	80.920	85.698 E6	-5.9	105	0.00
6 tcm Aldrin	91.095	95.654 E6	-5.0	103	0.00
7 tc beta-BHC	45.130	46.422 E6	-2.9	103	0.00
8 tc delta-BHC	103.241	107.904 E6	-4.5	103	0.00
9 tc Heptachlor E	80.396	83.786 E6	-4.2	103	0.00
11 tc gamma-Chlord	82.026	86.370 E6	-5.3	105	0.00
12 tc alpha-Chlord	77.670	82.561 E6	-6.3	105	0.00
13 tc 4,4'-DDE	76.653	81.751 E6	-6.7	105	0.00
17 tc beta-Endosul	64.198	67.493 E6	-5.1	104	0.00
20 tc Endrin Aldeh	49.048	51.517 E6	-5.0	103	0.00
21 tc Endosulfan S	57.148	59.898 E6	-4.8	103	0.00
24 tc Endrin Keton	62.732	65.947 E6	-5.1	104	0.00
25 S SURR2,Decachlorobiphenyl	55.075	57.889 E6	-5.1	104	0.00

Data Path : J:\ACQUDATA\6890D\DATA\071008\
 Data File : ey078.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 11 Jul 2008 5:16 pm
 Operator : M.PEDRO
 Sample : ccv2b
 Misc : indbm
 ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 14 07:24:17 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

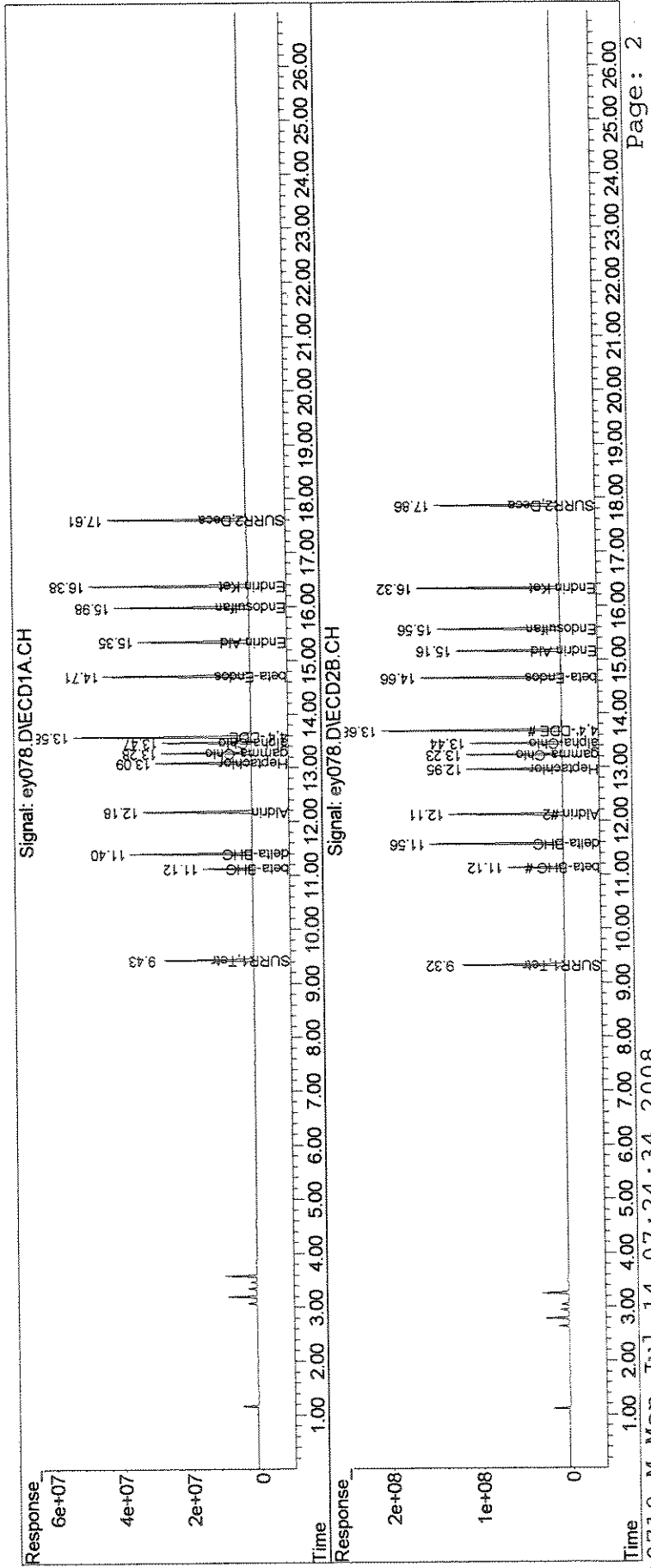
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	415.4E6	1714.0E6	20.584	21.181
Spiked Amount	100.000	Range	30 - 150	Recovery =	20.58%#	21.18%#
5) S SURR2,Decachloro	17.61	17.86	725.3E6	2315.6E6	41.527	42.044
Spiked Amount	100.000	Range	30 - 150	Recovery =	41.53%	42.04%
Target Compounds						
6) tcm Aldrin	12.18	12.11	510.4E6	1913.1E6	20.616	21.001
7) tc beta-BHC	11.12	11.12	227.1E6	928.4E6	19.781	20.573
8) tc delta-BHC	11.40	11.56	556.3E6	2158.1E6	20.454	20.903
9) tc Heptachlor E	13.09	12.95	468.2E6	1675.7E6	20.571	20.843
1) tc gamma-Chlord	13.28	13.23	450.4E6	1727.4E6	20.543	21.059
2) tc alpha-Chlord	13.47	13.44	436.6E6	1651.2E6	20.413	21.259
3) tc 4,4'-DDE	13.58	13.68	910.0E6	3270.1E6	41.781	42.661
7) tc beta-Endosul	14.71	14.66	774.1E6	2699.7E6	41.642	42.053
20) tc Endrin Aldeh	15.35	15.16	609.0E6	2060.7E6	41.492	42.014
21) tc Endosulfan S	15.99	15.56	695.7E6	2395.9E6	41.296	41.925
24) tc Endrin Keton	16.38	16.32	800.4E6	2637.9E6	41.336	42.050
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.

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey078.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 5:16 pm
Operator : M.PEDRO
Sample : ccv2b
Misc : indbm
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 14 07:24:17 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



01007

PESTICIDES
RAW QC DATA

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 07/30/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1111769 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 162866

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/19/08			
DATE ANALYZED : 06/25/08			
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	0.10	0.10 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 %)	18 *	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	54	%

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : EX868.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 4:17 am
 Operator : M.PEDRO
 Sample : 1111769 1.0
 Misc : 06/19/08 200 ensr r44538 8081 blk
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:09:01 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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
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System Monitoring Compounds

1) S SURR1,Tetrac	9.27	9.04	1022.9E6	2712.2E6	54.315	44.451	<i>44.451</i>
Spiked Amount	100.000	Range 30 - 150	Recovery =	54.32%	44.45%		
25) S SURR2,Decachloro	17.40	17.47	299.4E6	758.3E6	17.529	17.373	<i>17.373</i>
Spiked Amount	100.000	Range 30 - 150	Recovery =	17.53%#	17.37%#		

Target Compounds

2) TC HEXACHLORO BENZEN	9.97	9.85	8483668	23810148	0.312	0.271	
4) tcm gamma-BHC (L	0.00	10.64	0	30934554	N.D.	0.377	#
5) tcm Heptachlor	11.54	0.00	137.0E6	0	5.093	N.D.	#
6) tcm Aldrin	0.00	11.76	0	141.4E6	N.D.	1.886	#
7) tc beta-BHC	0.00	10.83	0	21237339	N.D.	0.595	#
8) tc delta-BHC	0.00	11.28	0	25770857	N.D.	0.310	#
9) tc Heptachlor E	12.90	12.62	6566126	88380084	0.285	1.315	#
11) tc gamma-Chlord	0.00	12.88	0	67638133	N.D.	0.970	#
12) tc alpha-Chlord	0.00	13.09	0	52518750	N.D.	0.791	#
13) tc 4,4'-DDE	13.38	0.00	21172869	0	0.942	N.D.	#
14) tcm Dieldrin	13.80	13.56	13914275	20887400	0.598	0.320	#
15) tcm Endrin	0.00	13.95	0	61128386	N.D.	1.078	#
16) tc KEPONE	14.27	0.00	11325833	0	1.810	N.D.	#
17) tc beta-Endosul	0.00	14.28	0	15625886	N.D.	0.285	#
18) tc 4,4'-DDD	14.27	0.00	11325833	0	0.602	N.D.	#
19) tcm 4,4'-DDT	0.00	14.58	0	44895065	N.D.	0.819	#
20) tc Endrin Aldeh	15.13	14.77	48014489	100.5E6	3.249	2.497	
21) tc Endosulfan S	0.00	15.14	0	115.7E6	N.D.	2.331	#
22) tc Methoxychlor	15.36	0.00	53117357	0	5.382	N.D.	#
26) L8C Toxaphene	14.61	0.00	17935898	0	42.949	N.D.	#
27) L8C Toxaphene {2}	0.00	14.71	0	14526472	N.D.	18.883	#
29) L8C Toxaphene {4}	0.00	16.07	0	87387454	N.D.	53.725	#
30) L8C Toxaphene {5}	16.34	16.31	275.1E6	37887757	407.495	21.753	#
Sum Toxaphene			293.1E6	139.8E6	450.445	94.360	
Average Toxaphene					225.222	31.453	

OSI 7/19/08

Data Path : J:\ACQUADATA\6890D\DATA\062408\
 Data File : EX868.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Jun 2008 4:17 am
 Operator : M.PEDRO
 Sample : 1111769 1.0
 Misc : 06/19/08 200 ensr r44538 8081 blk
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:09:01 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	0.00	11.10	0	50369364	N.D.	19.999 #
32) L9C Chlordane {2}	11.54	0.00	137.0E6	0	126.004	N.D. #
33) L9C Chlordane {3}	0.00	12.04	0	86248394	N.D.	31.066 #
34) L9C Chlordane {4}	0.00	12.88	0	67638133	N.D.	8.547 #
Sum Chlordane			137.0E6	204.3E6	126.004	59.613
Average Chlordane					126.004	19.871

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 07/30/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1112528 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/25/08			
DATE ANALYZED : 06/26/08			
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 %)	36 *	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	65	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX884.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 6:40 pm
 Operator : M.PEDRO
 Sample : 1112528 1.
 Misc : 06/25/08 200 ensr 8081 blk
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:40 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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
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System Monitoring Compounds

1) S	SURR1,Tetrac	9.27	9.04	1232.0E6	3745.2E6	65.414	61.380
	Spiked Amount	100.000	Range	30 - 150	Recovery =	65.41%	61.38%
25) S	SURR2,Decachloro	17.39	17.46	617.4E6	1470.8E6	36.145	33.695
	Spiked Amount	100.000	Range	30 - 150	Recovery =	36.15%	33.70%

Target Compounds

2) TC	HEXACHLOROENZEN	9.97	9.85	6281967	25665646	0.231	0.292 #
3) tc	alpha-BHC	0.00	10.11	0	28539898	N.D.	0.309 #
4) tcm	gamma-BHC (L	0.00	10.65	0	13195612	N.D.	0.161 #
5) tcm	Heptachlor	11.54	11.31	52116559	127.3E6	1.937	1.594
6) tcm	Aldrin	0.00	11.78	0	15633234	N.D.	0.209 #
7) tc	beta-BHC	0.00	10.82	0	19078475	N.D.	0.535 #
8) tc	delta-BHC	11.23	0.00	3657279	0	0.132	N.D. #
9) tc	Heptachlor E	12.90	12.62	6073076	85596623	0.264	1.274 #
11) tc	gamma-Chlord	0.00	12.88	0	73979517	N.D.	1.061 #
12) tc	alpha-Chlord	0.00	13.08	0	6771645	N.D.	0.102 #
13) tc	4,4'-DDE	13.37	13.35	22432459	58910247	0.998	0.904
14) tcm	Dieldrin	13.80	13.56	27380435	26513959	1.176	0.406 #
15) tcm	Endrin	0.00	13.98	0	14275459	N.D.	0.252 #
16) tc	KEPONE	14.26	0.00	4705188	0	0.752	N.D. #
17) tc	beta-Endosul	0.00	14.28	0	29890043	N.D.	0.545 #
18) tc	4,4'-DDD	14.26	0.00	4705188	0	0.250	N.D. #
19) tcm	4,4'-DDT	0.00	14.58	0	66861619	N.D.	1.220 #
20) tc	Endrin Aldeh	15.14	14.77	7435687	84229603	0.503	2.094 #
26) L8C	Toxaphene	14.61	14.43	30014936	10604370	71.874	6.472 #
27) L8C	Toxaphene {2}	0.00	14.70	0	12447784	N.D.	16.181 #
29) L8C	Toxaphene {4}	0.00	16.08	0	9824638	N.D.	6.040 #
30) L8C	Toxaphene {5}	16.34	16.31	10711626	1144122	15.865	0.657 #
	Sum Toxaphene			40726562	34020914	87.739	29.350
	Average Toxaphene					43.869	7.337

31) L9C	Chlordane	11.45	11.10	3516440	31733990	4.595	12.600 #
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Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX884.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 6:40 pm
 Operator : M.PEDRO
 Sample : 1112528 1.
 Misc : 06/25/08 200 ensr 8081 blk
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:31:40 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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
32) L9C Chlordane{2}	11.54	0.00	52116559	0	47.918	N.D. #
33) L9C Chlordane{3}	0.00	12.04	0	26915038	N.D.	9.695 #
Sum Chlordane			55633000	58649027	52.514	22.295
Average Chlordane					26.257	11.147

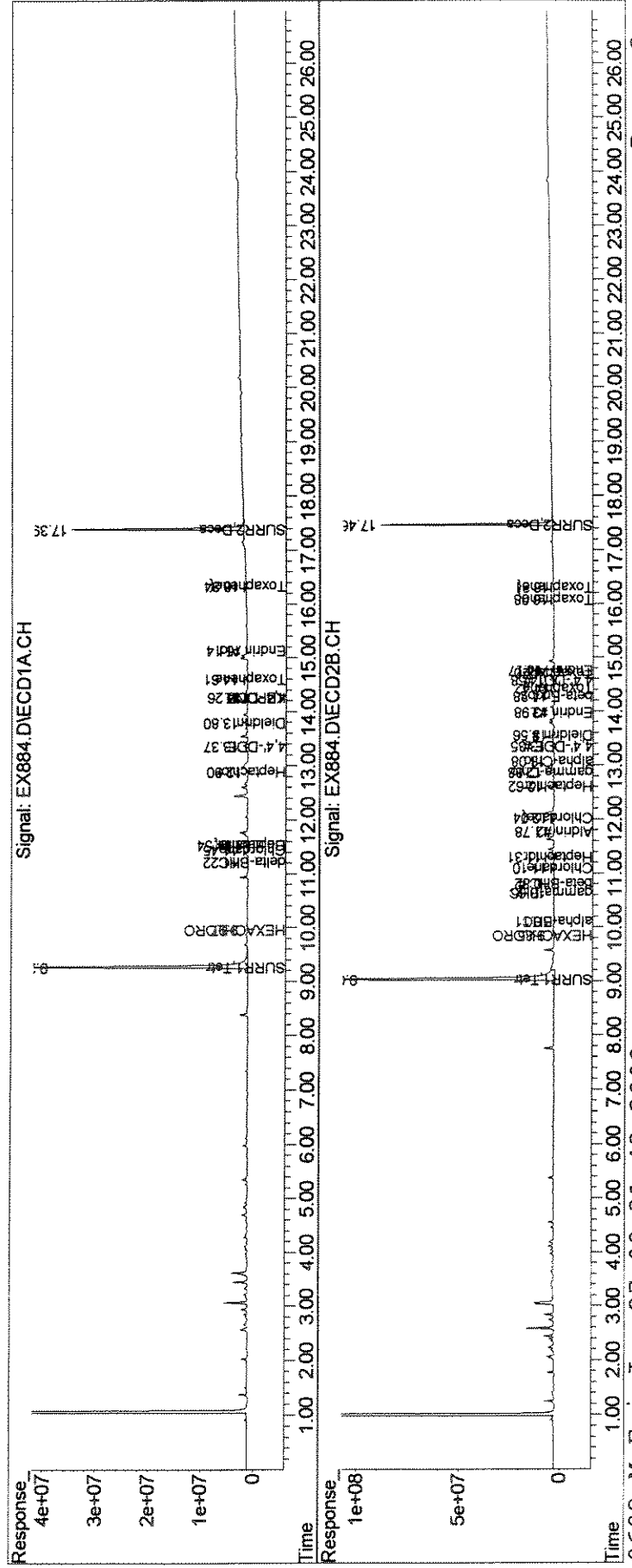
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : EX884.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 6:40 pm
Operator : M.PEDRO
Sample : 1112528 1.
Misc : 06/25/08 200 ensr 8081 blk
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:31:40 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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: 07/30/08

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1113455 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 06/30/08			
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 %)	71	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	78	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX912.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 12:29 pm
 Operator : M.PEDRO
 Sample : 1113455 1.0
 Misc : 06/27/08 200 ensr 8081 blk
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:23 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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
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System Monitoring Compounds

1) S SURR1,Tetrac	9.28	9.04	1464.8E6	4361.1E6	77.777	71.475
Spiked Amount	100.000	Range 30 - 150	Recovery =		77.78%	71.47%
25) S SURR2,Decachloro	17.40	17.46	1217.9E6	2993.7E6	71.303	68.584
Spiked Amount	100.000	Range 30 - 150	Recovery =		71.30%	68.58%

Target Compounds

2) TC HEXACHLOROBENZEN	9.97	9.85	40750307	117.7E6	1.500	1.338
3) tc alpha-BHC	10.28	10.10	50791278	110.5E6	1.691	1.195 #
5) tcm Heptachlor	11.54	11.33	33650971	64237512	1.251	0.804 #
7) tc beta-BHC	0.00	10.80	0	140.7E6	N.D.	3.944 #
8) tc delta-BHC	0.00	11.25	0	166.7E6	N.D.	2.006 #
9) tc Heptachlor E	0.00	12.61	0	108.9E6	N.D.	1.620 #
10) tc alpha-Endosu	0.00	13.17	0	51698452	N.D.	0.868 #
11) tc gamma-Chlord	13.06	12.88	32984994	105.6E6	1.447	1.515
12) tc alpha-Chlord	0.00	13.09	0	107.0E6	N.D.	1.611 #
13) tc 4,4'-DDE	13.38	13.36	24477101	121.9E6	1.089	1.870 #
14) tcm Dieldrin	13.81	13.56	35705356	65196060	1.534	0.999 #
15) tcm Endrin	0.00	13.98	0	58154018	N.D.	1.025 #
16) tc KEPONE	0.00	14.17	0	45172852	N.D.	2.641 #
17) tc beta-Endosul	0.00	14.28	0	64382427	N.D.	1.174 #
19) tcm 4,4'-DDT	0.00	14.58	0	130.8E6	N.D.	2.386 #
20) tc Endrin Aldeh	15.14	14.77	6093541	158.0E6	0.412	3.928 #
21) tc Endosulfan S	0.00	15.13	0	29896995	N.D.	0.602 #
23) tc FAMPHUR	0.00	15.32	0	16141027	N.D.	0.508 #
24) tc Endrin Keton	0.00	15.92	0	1912596	N.D.	0.035 #
26) L8C Toxaphene	14.62	14.43	35921596	51162430	86.018	31.226 #
27) L8C Toxaphene { 2 }	0.00	14.71	0	31777019	N.D.	41.307 #
29) L8C Toxaphene { 4 }	0.00	16.08	0	5785831	N.D.	3.557 #
30) L8C Toxaphene { 5 }	16.35	0.00	14287575	0	21.162	N.D. #
Sum Toxaphene			50209171	88725281	107.179	76.090
Average Toxaphene					53.590	25.363

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX912.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 12:29 pm
 Operator : M.PEDRO
 Sample : 1113455 1.0
 Misc : 06/27/08 200 ensr 8081 blk
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:23 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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	0.00	11.14	0	183.9E6	N.D.	73.011 #
32) L9C Chlordane{2}	11.54	11.33	33650971	64237512	30.940	18.781 #
33) L9C Chlordane{3}	0.00	12.04	0	104.5E6	N.D.	37.648 #
34) L9C Chlordane{4}	0.00	12.88	0	105.6E6	N.D.	13.348 #
Sum Chlordane			33650971	458.3E6	30.940	142.787
Average Chlordane					30.940	35.697

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 07/30/08

Project Reference:
 Client Sample ID : BLANK SPIKE

Date Sampled : Order #: 1111770 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 162866

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/19/08			
DATE ANALYZED : 06/24/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.10	0.15	UG/L
ALPHA-BHC	0.10	0.19	UG/L
BETA-BHC	0.10	0.18	UG/L
GAMMA-BHC	0.10	0.18	UG/L
DELTA-BHC	0.10	0.16	UG/L
ALPHA-CHLORDANE	0.10	0.17	UG/L
GAMMA-CHLORDANE	0.10	0.17	UG/L
CHLORDANE	0.50	0.50 U	UG/L
4,4'-DDE	0.10	0.16	UG/L
4,4'-DDT	0.10	0.15	UG/L
DIELDRIN	0.20	0.20 U	UG/L
ALPHA-ENDOSULFAN	0.10	0.18	UG/L
BETA-ENDOSULFAN	0.20	0.20 U	UG/L
ENDOSULFAN SULFATE	0.20	0.20 U	UG/L
ENDRIN	0.10	0.18	UG/L
ENDRIN ALDEHYDE	0.20	0.20 U	UG/L
ENDRIN KETONE	0.20	0.20 U	UG/L
HEPTACHLOR	0.10	0.18	UG/L
HEPTACHLOR EPOXIDE	0.10	0.18	UG/L
HEXACHLOROBENZENE	0.10	0.39	UG/L
METHOXYCHLOR	1.0	1.0 U	UG/L
4,4'-TDE (DDD)	0.10	0.18	UG/L
TOXAPHENE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	55	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	75	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex854.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 7:59 pm
 Operator : M.PEDRO
 Sample : ~~1111737~~ 1.0 *11117D*
 Misc : 06/19/08 100 bristol r44504 8081 lcs
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:15:16 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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/1	ug/1
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System Monitoring Compounds

1) S SURR1,Tetrac	9.27	9.04	1421.0E6	4385.0E6	75.451	71.867
Spiked Amount	100.000	Range 30 - 150	Recovery =		75.45%	71.87%
2) S SURR2,Decachloro	17.40	17.47	933.7E6	2262.5E6	54.668	51.833
Spiked Amount	100.000	Range 30 - 150	Recovery =		54.67%	51.83%

Target Compounds

2) TC HEXACHLORO BENZEN	9.97	9.85	1064.3E6	3329.2E6	39.179	37.834
3) tc alpha-BHC	10.27	10.10	527.5E6	1789.3E6	17.566	19.351
4) tcm gamma-BHC (L	10.79	10.66	476.4E6	1500.2E6	17.331	18.261
5) tcm Heptachlor	11.54	11.31	438.2E6	1426.2E6	16.283	17.857
6) tcm Aldrin	11.99	11.78	355.3E6	1097.3E6	14.437	14.641
7) tc beta-BHC	10.96	10.83	206.0E6	652.2E6	17.846	18.282
8) tc delta-BHC	11.23	11.26	442.9E6	1249.5E6	16.016	15.037
9) tc Heptachlor E	12.90	12.61	406.8E6	1200.6E6	17.653	17.869
10) tc alpha-Endosu	13.47	13.15	379.3E6	1100.2E6	18.410	18.464
11) tc gamma-Chlord	13.08	12.88	396.6E6	1165.1E6	17.403	16.711
12) tc alpha-Chlord	13.27	13.08	374.0E6	1086.2E6	16.735	16.354
13) tc 4,4'-DDE	13.38	13.33	350.1E6	1079.9E6	15.571	16.568
14) tcm Dieldrin	13.82	13.54	411.4E6	1209.7E6	17.668	18.539
15) tcm Endrin	14.16	13.97	364.6E6	1021.1E6	17.479	18.002
17) tc beta-Endosul	14.50	14.27	340.7E6	1025.6E6	17.334	18.700
18) tc 4,4'-DDD	14.25	14.14	330.0E6	880.7E6	17.544	17.059
19) tcm 4,4'-DDT	14.65	14.58	310.3E6	826.4E6	15.489	15.081
20) tc Endrin Aldeh	15.12	14.75	44164843	161.8E6	2.988	4.023 #
21) tc Endosulfan S	15.76	15.16	311.1E6	843.0E6	17.153	16.984
22) tc Methoxychlor	15.34	15.55	930.0E6	2319.4E6	94.222	96.177
24) tc Endrin Keton	16.16	15.92	379.2E6	980.0E6	18.160	18.103
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

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex854.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 7:59 pm
 Operator : M.PEDRO
 Sample : 1111737 1.0
 Misc : 06/19/08 100 bristol r44504 8081 lcs
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:15:16 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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

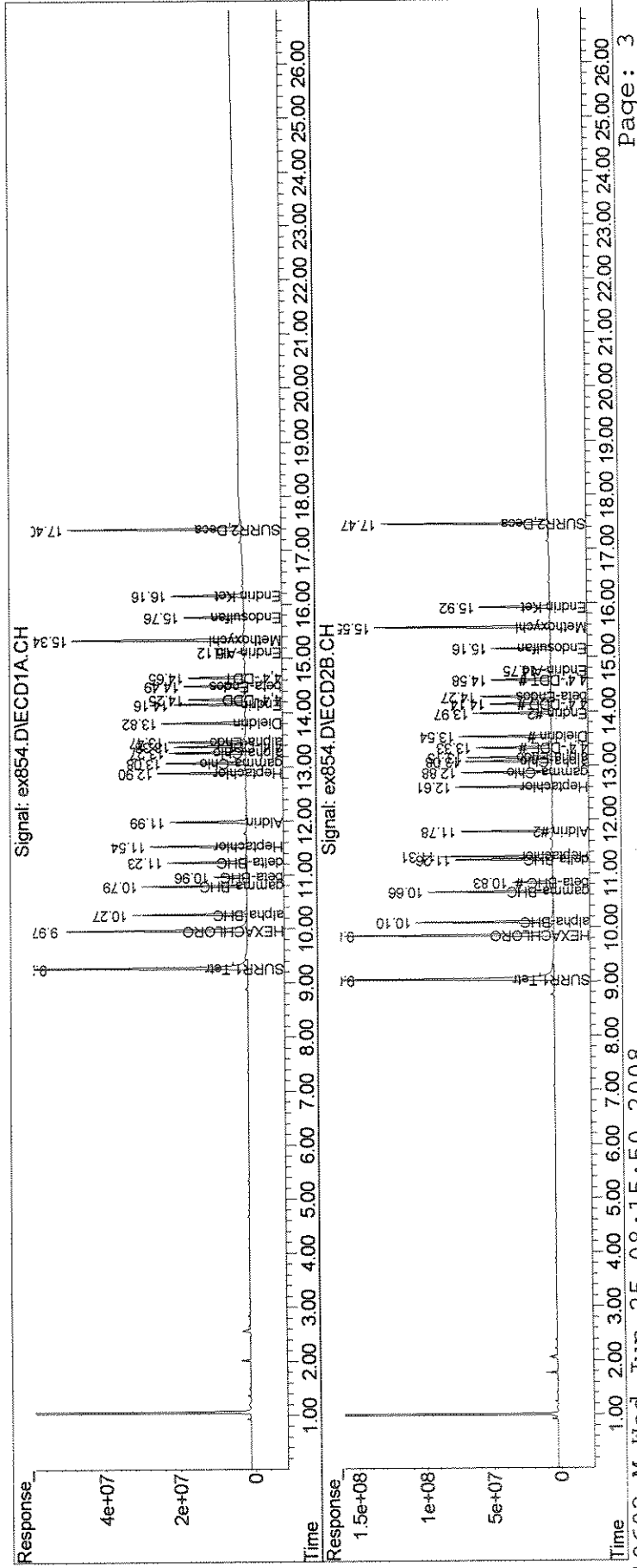
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex854.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 7:59 pm
 Operator : M.PEDRO
 Sample : 1111737 1.0
 Misc : 06/19/08 100 bristol r44504 8081 lcs
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:15:16 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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



01022

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : EX854.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 7:59 pm
 Operator : M.PEDRO
 Sample : 1111737 1.0
 Misc : 06/19/08 100 bristol r44504 8081 lcs
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:07:50 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1421.0E6	4385.0E6	75.451	71.867
Spiked Amount	100.000	Range 30 - 150	Recovery =		75.45%	71.87%
25) S SURR2,Decachloro	17.40	17.47	933.7E6	2262.5E6	54.668	51.833
Spiked Amount	100.000	Range 30 - 150	Recovery =		54.67%	51.83%
Target Compounds						
2) TC HEXACHLORO BENZEN	9.97	9.85	1064.3E6	3329.2E6	39.179	37.834
3) tc alpha-BHC	10.27	10.10	527.5E6	1789.3E6	17.566	19.351
4) tcm gamma-BHC (L	10.79	10.66	476.4E6	1500.2E6	17.331	18.261
5) tcm Heptachlor	11.54	11.31	438.2E6	1426.2E6	16.283	17.857
6) tcm Aldrin	11.99	11.78	355.3E6	1097.3E6	14.437	14.641
7) tc beta-BHC	10.96	10.83	206.0E6	652.2E6	17.846	18.282
8) tc delta-BHC	11.23	11.26	442.9E6	1249.5E6	16.016	15.037
9) tc Heptachlor E	12.90	12.61	406.8E6	1200.6E6	17.653	17.869
10) tc alpha-Endosu	13.47	13.15	379.3E6	1100.2E6	18.410	18.464
11) tc gamma-Chlord	13.08	12.88	396.6E6	1165.1E6	17.403	16.711
12) tc alpha-Chlord	13.27	13.08	374.0E6	1086.2E6	16.735	16.354
13) tc 4,4'-DDE	13.38	13.33	350.1E6	1079.9E6	15.571	16.568
14) tcm Dieldrin	13.82	13.54	411.4E6	1209.7E6	17.668	18.539
15) tcm Endrin	14.16	13.97	364.6E6	1021.1E6	17.479	18.002
16) tc KEPONE	14.25	14.14	330.0E6	880.7E6	52.728	51.482
17) tc beta-Endosul	14.50	14.27	340.7E6	1025.6E6	17.334	18.700
18) tc 4,4'-DDD	14.25	14.14	330.0E6	880.7E6	17.544	17.059
19) tcm 4,4'-DDT	14.65	14.58	310.3E6	826.4E6	15.489	15.081
20) tc Endrin Aldeh	15.12	14.75	44164843	161.8E6	2.988	4.023 #
21) tc Endosulfan S	15.76	15.16	311.1E6	843.0E6	17.153	16.984
22) tc Methoxychlor	15.34	15.55	930.0E6	2319.4E6	94.222	96.177
23) tc FAMPHUR	0.00	15.28	0	6805598	N.D.	0.214 #
24) tc Endrin Keton	16.16	15.92	379.2E6	980.0E6	18.160	18.103
29) L8C Toxaphene{4}	16.16	0.00	379.2E6	0	426.619	N.D. #
30) L8C Toxaphene{5}	16.34	0.00	12874952	0	19.069	N.D. #
Sum Toxaphene			392.1E6	0	445.688	N.D.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : EX854.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 7:59 pm
 Operator : M.PEDRO
 Sample : 1111737 1.0
 Misc : 06/19/08 100 bristol r44504 8081 lcs
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:07:50 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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

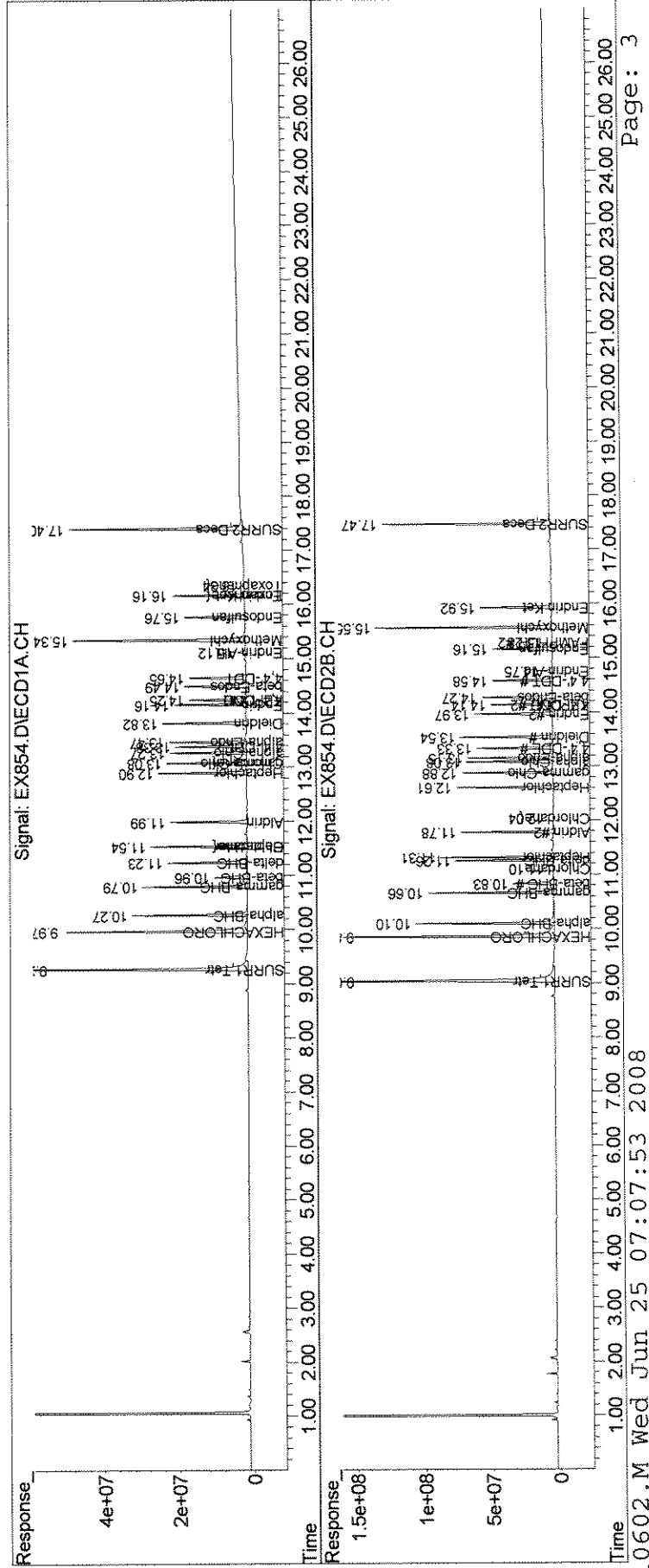
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average Toxaphene					222.844	0.000
31) L9C Chlordane	0.00	11.10	0	20672524	N.D.	8.208 #
32) L9C Chlordane{2}	11.54	0.00	438.2E6	0	402.867	N.D. #
33) L9C Chlordane{3}	0.00	12.04	0	4995711	N.D.	1.799 #
34) L9C Chlordane{4}	13.08	0.00	396.6E6	0	144.921	N.D. #
Sum Chlordane			834.8E6	25668236	547.788	10.007
Average Chlordane					273.894	5.004

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : EX854.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 7:59 pm
 Operator : M.PEDRO
 Sample : 1111737 1.0
 Misc : 06/19/08 100 bristol r44504 8081 lcs
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:07:50 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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



01026

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/30/08

Project Reference:

Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : Order #: 1111771 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 162866

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/19/08			
DATE ANALYZED : 06/24/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.10	0.14	UG/L
ALPHA-BHC	0.10	0.19	UG/L
BETA-BHC	0.10	0.19	UG/L
GAMMA-BHC	0.10	0.18	UG/L
DELTA-BHC	0.10	0.15	UG/L
ALPHA-CHLORDANE	0.10	0.17	UG/L
GAMMA-CHLORDANE	0.10	0.17	UG/L
CHLORDANE	0.50	0.50 U	UG/L
4,4'-DDE	0.10	0.17	UG/L
4,4'-DDT	0.10	0.16	UG/L
DIELDRIN	0.20	0.20 U	UG/L
ALPHA-ENDOSULFAN	0.10	0.18	UG/L
BETA-ENDOSULFAN	0.20	0.20 U	UG/L
ENDOSULFAN SULFATE	0.20	0.20 U	UG/L
ENDRIN	0.10	0.18	UG/L
ENDRIN ALDEHYDE	0.20	0.20 U	UG/L
ENDRIN KETONE	0.20	0.20 U	UG/L
HEPTACHLOR	0.10	0.18	UG/L
HEPTACHLOR EPOXIDE	0.10	0.18	UG/L
HEXACHLOROBENZENE	0.10	0.38	UG/L
METHOXYCHLOR	1.0	1.0 U	UG/L
4,4'-TDE (DDD)	0.10	0.17	UG/L
TOXAPHENE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	45	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	72	%

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex855.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 8:34 pm
 Operator : M.PEDRO
 Sample : ~~1111738~~ 1.0 *111771*
 Misc : ~~06/19/08~~ 100 bristol r44504 8081 lcsd
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:17:20 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	9.27	9.04	1364.7E6	4128.4E6	72.459	67.661
Spiked Amount	100.000	Range	30 - 150	Recovery	=	72.46%
25) S SURR2,Decachloro	17.40	17.47	761.4E6	1867.3E6	44.578	42.779
Spiked Amount	100.000	Range	30 - 150	Recovery	=	44.58%
Target Compounds						
2) TC HEXACHLORO BENZEN	9.97	9.85	1046.1E6	3277.4E6	38.509	37.245
3) tc alpha-BHC	10.27	10.09	528.2E6	1793.6E6	17.588	19.397
4) tcm gamma-BHC (L	10.79	10.66	476.1E6	1498.3E6	17.318	18.237
5) tcm Heptachlor	11.54	11.31	432.1E6	1407.1E6	16.058	17.619
6) tcm Aldrin	11.99	11.78	351.7E6	1085.0E6	14.287	14.478
7) tc beta-BHC	10.96	10.82	204.2E6	673.5E6	17.690	18.880
8) tc delta-BHC	11.23	11.25	412.1E6	1169.7E6	14.902	14.077
9) tc Heptachlor E	12.90	12.61	408.7E6	1200.9E6	17.739	17.873
10) tc alpha-Endosu	13.47	13.15	378.3E6	1100.4E6	18.363	18.467
11) tc gamma-Chlord	13.08	12.88	396.6E6	1171.3E6	17.403	16.800
12) tc alpha-Chlord	13.27	13.08	374.4E6	1091.2E6	16.755	16.429
13) tc 4,4'-DDE	13.38	13.33	355.0E6	1093.5E6	15.792	16.777
14) tcm Dieldrin	13.82	13.54	414.2E6	1211.9E6	17.789	18.572
15) tcm Endrin	14.16	13.97	368.3E6	1032.1E6	17.654	18.196
17) tc beta-Endosul	14.49	14.27	331.9E6	1011.4E6	16.883	18.441
18) tc 4,4'-DDD	14.25	14.14	319.3E6	885.0E6	16.974	17.141
19) tcm 4,4'-DDT	14.65	14.58	309.4E6	855.6E6	15.445	15.614
20) tc Endrin Aldeh	15.12	14.75	44059204	166.5E6	2.981	4.139 #
21) tc Endosulfan S	15.76	15.16	309.9E6	844.3E6	17.088	17.011
22) tc Methoxychlor	15.34	15.55	949.7E6	2368.8E6	96.221	98.229
24) tc Endrin Keton	16.16	15.92	379.7E6	980.8E6	18.181	18.117
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

Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : ex855.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 8:34 pm
 Operator : M.PEDRO
 Sample : 1111738 1.0
 Misc : 06/19/08 100 bristol r44504 8081 lcsd
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:17:20 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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

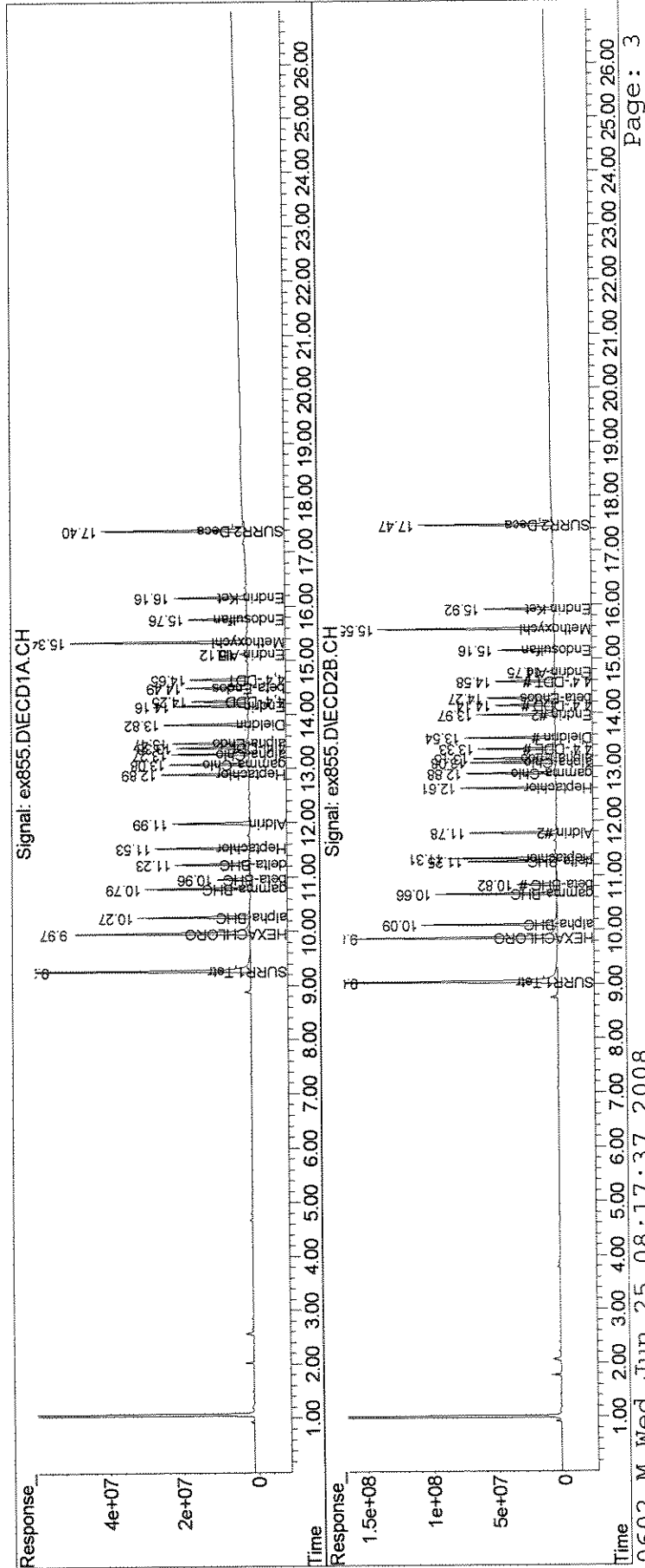
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQDATA\6890D\DATA\062408\
 Data File : ex855.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 8:34 pm
 Operator : M.PEDRO
 Sample : 1111738 1.0
 Misc : 06/19/08 100 bristol r44504 8081 lcsd
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 08:17:20 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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



Data Path : J:\ACQUDATA\6890D\DATA\062408\
 Data File : EX855.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 8:34 pm
 Operator : M.PEDRO
 Sample : 1111738 1.0
 Misc : 06/19/08 100 bristol r44504 8081 lcsd
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:07:55 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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	9.27	9.04	1364.7E6	4128.4E6	72.459	67.661
Spiked Amount	100.000	Range 30 - 150	Recovery =		72.46%	67.66%
25) S SURR2,Decachloro	17.40	17.47	761.4E6	1867.3E6	44.578	42.779
Spiked Amount	100.000	Range 30 - 150	Recovery =		44.58%	42.78%

Target Compounds

2) TC HEXACHLOROBENZEN	9.97	9.85	1046.1E6	3277.4E6	38.509	37.245
3) tc alpha-BHC	10.27	10.09	528.2E6	1793.6E6	17.588	19.397
4) tcm gamma-BHC (L	10.79	10.66	476.1E6	1498.3E6	17.318	18.237
5) tcm Heptachlor	11.54	11.31	432.1E6	1407.1E6	16.058	17.619
6) tcm Aldrin	11.99	11.78	351.7E6	1085.0E6	14.287	14.478
7) tc beta-BHC	10.96	10.82	204.2E6	673.5E6	17.690	18.880
8) tc delta-BHC	11.23	11.25	412.1E6	1169.7E6	14.902	14.077
9) tc Heptachlor E	12.90	12.61	408.7E6	1200.9E6	17.739	17.873
10) tc alpha-Endosu	13.47	13.15	378.3E6	1100.4E6	18.363	18.467
11) tc gamma-Chlord	13.08	12.88	396.6E6	1171.3E6	17.403	16.800
12) tc alpha-Chlord	13.27	13.08	374.4E6	1091.2E6	16.755	16.429
13) tc 4,4'-DDE	13.38	13.33	355.0E6	1093.5E6	15.792	16.777
14) tcm Dieldrin	13.82	13.54	414.2E6	1211.9E6	17.789	18.572
15) tcm Endrin	14.16	13.97	368.3E6	1032.1E6	17.654	18.196
16) tc KEPONE	14.25	14.14	319.3E6	885.0E6	51.016	51.729
17) tc beta-Endosul	14.49	14.27	331.9E6	1011.4E6	16.883	18.441
18) tc 4,4'-DDD	14.25	14.14	319.3E6	885.0E6	16.974	17.141
19) tcm 4,4'-DDT	14.65	14.58	309.4E6	855.6E6	15.445	15.614
20) tc Endrin Aldeh	15.12	14.75	44059204	166.5E6	2.981	4.139 #
21) tc Endosulfan S	15.76	15.16	309.9E6	844.3E6	17.088	17.011
22) tc Methoxychlor	15.34	15.55	949.7E6	2368.8E6	96.221	98.229
23) tc FAMPHUR	0.00	15.28	0	6233844	N.D.	0.196 #
24) tc Endrin Keton	16.16	15.92	379.7E6	980.8E6	18.181	18.117
27) L8C Toxaphene{2}	0.00	14.71	0	9753922	N.D.	12.679 #
29) L8C Toxaphene{4}	16.16	0.00	379.7E6	0	427.130	N.D. #
30) L8C Toxaphene{5}	16.34	0.00	11615165	0	17.204	N.D. #

Data Path : J:\ACQUADATA\6890D\DATA\062408\
 Data File : EX855.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Jun 2008 8:34 pm
 Operator : M.PEDRO
 Sample : 1111738 1.0
 Misc : 06/19/08 100 bristol r44504 8081 lcsd
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 25 07:07:55 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Wed Jun 25 07:06:05 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
Sum Toxaphene			391.3E6	9753922	444.334	12.679
Average Toxaphene					222.167	12.679
31) L9C Chlordane	0.00	11.10	0	20715091	N.D.	8.225 #
32) L9C Chlordane {2}	11.54	0.00	432.1E6	0	397.281	N.D. #
33) L9C Chlordane {3}	0.00	12.04	0	4909138	N.D.	1.768 #
34) L9C Chlordane {4}	13.08	0.00	396.6E6	0	144.918	N.D. #
Sum Chlordane			828.7E6	25624229	542.199	9.993
Average Chlordane					271.099	4.997

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/30/08

Project Reference:

Client Sample ID : BLANK SPIKE

Date Sampled : Order #: 1112529 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/25/08			
DATE ANALYZED : 06/26/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.10	0.14	UG/L
ALPHA-BHC	0.10	0.20	UG/L
BETA-BHC	0.10	0.21	UG/L
GAMMA-BHC	0.10	0.19	UG/L
DELTA-BHC	0.10	0.17	UG/L
ALPHA-CHLORDANE	0.10	0.17	UG/L
GAMMA-CHLORDANE	0.10	0.18	UG/L
CHLORDANE	0.50	0.50 U	UG/L
4,4'-DDE	0.10	0.16	UG/L
4,4'-DDT	0.10	0.18	UG/L
DIELDRIN	0.20	0.20 U	UG/L
ALPHA-ENDOSULFAN	0.10	0.20	UG/L
BETA-ENDOSULFAN	0.20	0.20 U	UG/L
ENDOSULFAN SULFATE	0.20	0.20 U	UG/L
ENDRIN	0.10	0.19	UG/L
ENDRIN ALDEHYDE	0.20	0.20 U	UG/L
ENDRIN KETONE	0.20	0.20 U	UG/L
HEPTACHLOR	0.10	0.18	UG/L
HEPTACHLOR EPOXIDE	0.10	0.19	UG/L
HEXACHLOROBENZENE	0.10	0.40	UG/L
METHOXYCHLOR	1.0	1.0	UG/L
4,4'-TDE (DDD)	0.10	0.18	UG/L
TOXAPHENE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	33 *	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	76	%

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex888.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:02 pm
 Operator : M.PEDRO
 Sample : 1112524 1.
 Misc : 06/25/08 100 8081/608 lcs 1112529
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:47:53 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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/1	ug/1
System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.04	1428.3E6	4494.7E6	75.836	73.665
Spiked Amount	100.000	Range 30 - 150	Recovery =		75.84%	73.67%
25) S SURR2,Decachloro	17.40	17.46	560.1E6	1388.8E6	32.793	31.817
Spiked Amount	100.000	Range 30 - 150	Recovery =		32.79%	31.82%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1113.1E6	3471.1E6	40.977	39.447
3) tc alpha-BHC	10.27	10.09	564.4E6	1886.9E6	18.793	20.406
4) tcm gamma-BHC (L	10.79	10.66	510.8E6	1596.5E6	18.581	19.433
5) tcm Heptachlor	11.54	11.31	457.8E6	1469.8E6	17.012	18.404
6) tcm Aldrin	11.99	11.78	352.3E6	1078.1E6	14.314	14.385
7) tc beta-BHC	10.96	10.82	232.1E6	739.9E6	20.100	20.742
8) tc delta-BHC	11.23	11.25	467.3E6	1285.2E6	16.895	15.467
9) tc Heptachlor E	12.89	12.60	428.6E6	1252.2E6	18.602	18.636
10) tc alpha-Endosu	13.47	13.15	402.0E6	1132.7E6	19.510	19.010
11) tc gamma-Chlord	13.08	12.87	407.2E6	1157.9E6	17.865	16.607
12) tc alpha-Chlord	13.27	13.08	388.1E6	1076.1E6	17.367	16.203
13) tc 4,4'-DDE	13.38	13.33	365.0E6	1053.7E6	16.235	16.167
14) tcm Dieldrin	13.82	13.53	433.9E6	1248.4E6	18.638	19.131
15) tcm Endrin	14.16	13.96	393.6E6	1066.5E6	18.867	18.802
17) tc beta-Endosul	14.49	14.27	346.3E6	1022.3E6	17.618	18.639
18) tc 4,4'-DDD	14.25	14.14	337.5E6	876.9E6	17.943	16.985
19) tcm 4,4'-DDT	14.65	14.57	350.9E6	886.2E6	17.519	16.171
20) tc Endrin Aldeh	15.12	14.75	231.1E6	645.7E6	15.638	16.050
21) tc Endosulfan S	15.76	15.15	321.4E6	850.7E6	17.720	17.139
22) tc Methoxychlor	15.34	15.55	1005.4E6	2459.5E6	101.864	101.988
24) tc Endrin Keton	16.16	15.92	386.8E6	963.2E6	18.522	17.792
29) L8C Toxaphene {4}	16.16	16.08	386.8E6	2530597	435.130	1.556 #
30) L8C Toxaphene {5}	16.34	0.00	10630350	0	15.745	N.D. #
Sum Toxaphene			397.4E6	2530597	450.875	1.556
Average Toxaphene					225.437	1.556

M.P. 6/27

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex888.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 9:02 pm
Operator : M.PEDRO
Sample : 1112524 1.
Misc : 06/25/08 100 8081/608 lcs
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 09:47:53 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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	0.00	11.10	0	25096392	N.D.	9.964 #
32) L9C Chlordane {2}	11.54	0.00	457.8E6	0	420.887	N.D. #
33) L9C Chlordane {3}	0.00	12.04	0	12487142	N.D.	4.498 #
34) L9C Chlordane {4}	13.08	0.00	407.2E6	0	148.773	N.D. #
Sum Chlordane			864.9E6	37583534	569.659	14.462
Average Chlordane					284.830	7.231

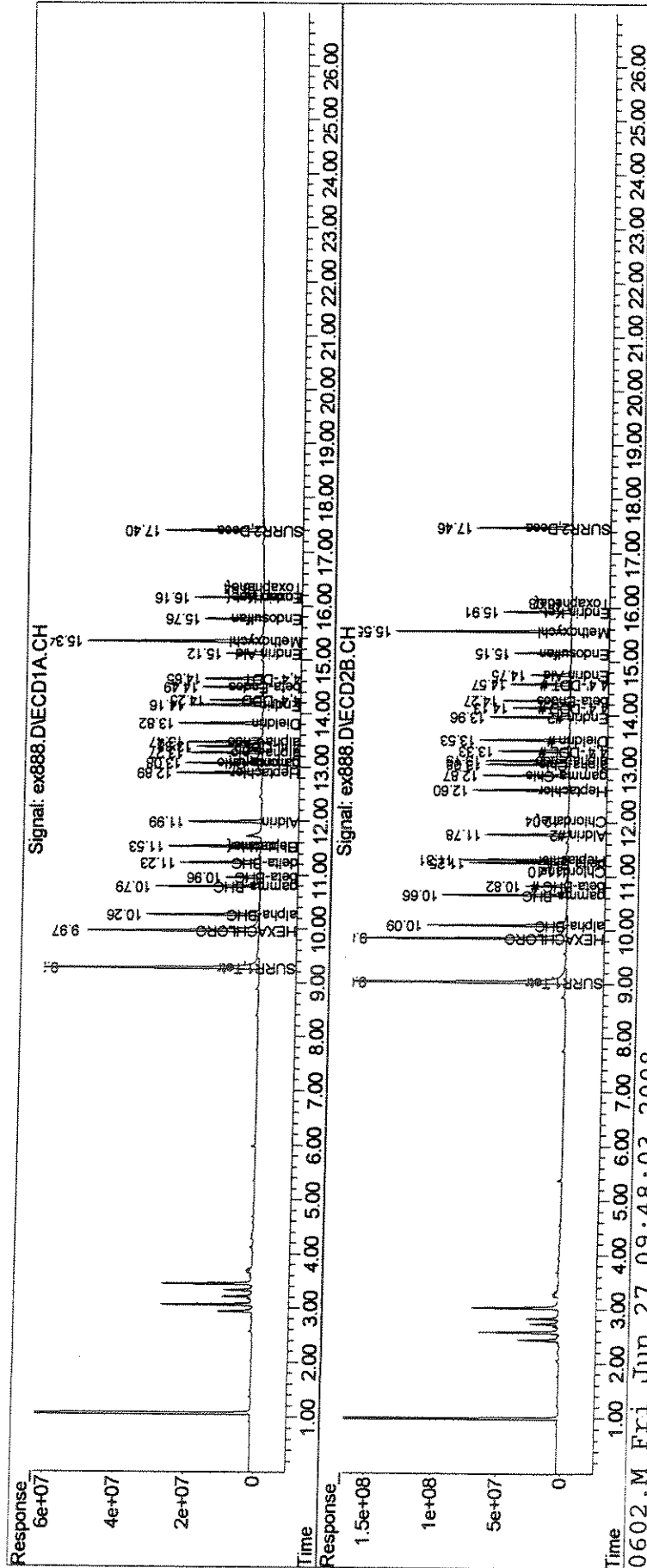
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQDATA\6890D\DATA\062608\
 Data File : ex888.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:02 pm
 Operator : M.PEDRO
 Sample : 1112524 1.
 Misc : 06/25/08 100 8081/608 lcs
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:47:53 2008
 Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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



01037

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX888.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:02 pm
 Operator : M.PEDRO
 Sample : 1112524 1.
 Misc : 06/25/08 100 8081/608 lcs
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:00 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.04	1428.3E6	4494.7E6	75.836	73.665
Spiked Amount	100.000	Range 30 - 150	Recovery =		75.84%	73.67%
25) S SURR2,Decachloro	17.40	17.46	560.1E6	1388.8E6	32.793	31.817
Spiked Amount	100.000	Range 30 - 150	Recovery =		32.79%	31.82%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1113.1E6	3471.1E6	40.977	39.447
3) tc alpha-BHC	10.27	10.09	564.4E6	1886.9E6	18.793	20.406
4) tcm gamma-BHC (L	10.79	10.66	510.8E6	1596.5E6	18.581	19.433
5) tcm Heptachlor	11.54	11.31	457.8E6	1469.8E6	17.012	18.404
6) tcm Aldrin	11.99	11.78	352.3E6	1078.1E6	14.314	14.385
7) tc beta-BHC	10.96	10.82	232.1E6	739.9E6	20.100	20.742
8) tc delta-BHC	11.23	11.25	467.3E6	1285.2E6	16.895	15.467
9) tc Heptachlor E	12.89	12.60	428.6E6	1252.2E6	18.602	18.636
10) tc alpha-Endosu	13.47	13.15	402.0E6	1132.7E6	19.510	19.010
11) tc gamma-Chlord	13.08	12.87	407.2E6	1157.9E6	17.865	16.607
12) tc alpha-Chlord	13.27	13.08	388.1E6	1076.1E6	17.367	16.203
13) tc 4,4'-DDE	13.38	13.33	365.0E6	1053.7E6	16.235	16.167
14) tcm Dieldrin	13.82	13.53	433.9E6	1248.4E6	18.638	19.131
15) tcm Endrin	14.16	13.96	393.6E6	1066.5E6	18.867	18.802
16) tc KEPONE	14.25	0.00	337.5E6	0	53.928	N.D. #
17) tc beta-Endosul	14.49	14.27	346.3E6	1022.3E6	17.618	18.639
18) tc 4,4'-DDD	14.25	14.14	337.5E6	876.9E6	17.943	16.985
19) tcm 4,4'-DDT	14.65	14.57	350.9E6	886.2E6	17.519	16.171
20) tc Endrin Aldeh	15.12	14.75	231.1E6	645.7E6	15.638	16.050
21) tc Endosulfan S	15.76	15.15	321.4E6	850.7E6	17.720	17.139
22) tc Methoxychlor	15.34	15.55	1005.4E6	2459.5E6	101.864	101.988
23) tc FAMPHUR	0.00	15.32	0	1268781	N.D.	0.040 #
24) tc Endrin Keton	16.16	15.92	386.8E6	963.2E6	18.522	17.792
29) L8C Toxaphene{4}	16.16	16.08	386.8E6	2530597	435.130	1.556 #
30) L8C Toxaphene{5}	16.34	0.00	10630350	0	15.745	N.D. #
Sum Toxaphene			397.4E6	2530597	450.875	1.556

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX888.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:02 pm
 Operator : M.PEDRO
 Sample : 1112524 1.
 Misc : 06/25/08 100 8081/608 lcs
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:00 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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					225.437	1.556
31) L9C Chlordane	0.00	11.10	0	25096392	N.D.	9.964 #
32) L9C Chlordane {2}	11.54	0.00	457.8E6	0	420.887	N.D. #
33) L9C Chlordane {3}	0.00	12.04	0	12487142	N.D.	4.498 #
34) L9C Chlordane {4}	13.08	0.00	407.2E6	0	148.773	N.D. #
Sum Chlordane			864.9E6	37583534	569.659	14.462
Average Chlordane					284.830	7.231

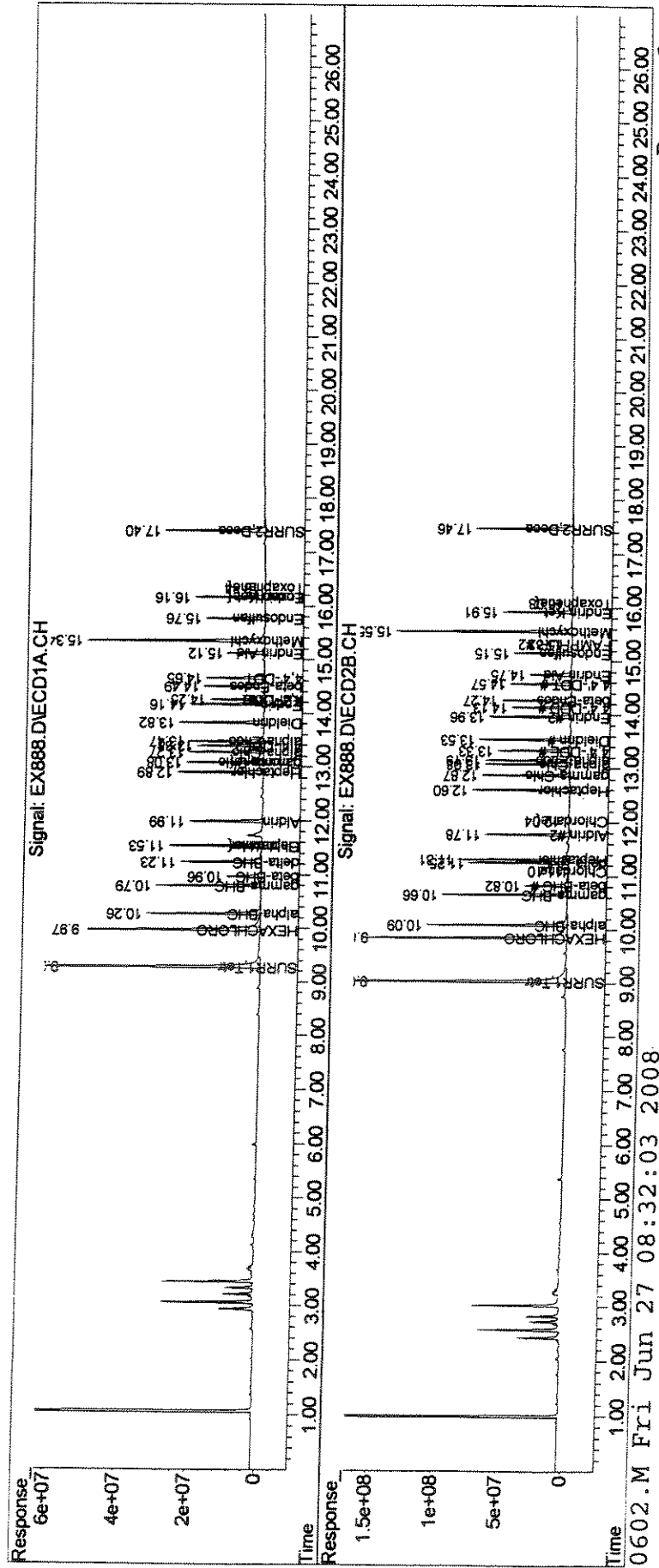
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQDATA\6890D\DATA\062608\
Data File : EX888.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 9:02 pm
Operator : M.PEDRO
Sample : 1112524 1.
Misc : 06/25/08 100 8081/608 lcs
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:00 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 07/30/08

Project Reference:
 Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : Order #: 1112530 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163012

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/25/08			
DATE ANALYZED : 06/26/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.10	0.15	UG/L
ALPHA-BHC	0.10	0.20	UG/L
BETA-BHC	0.10	0.20	UG/L
GAMMA-BHC	0.10	0.19	UG/L
DELTA-BHC	0.10	0.17	UG/L
ALPHA-CHLORDANE	0.10	0.18	UG/L
GAMMA-CHLORDANE	0.10	0.18	UG/L
CHLORDANE	0.50	0.50 U	UG/L
4,4'-DDE	0.10	0.17	UG/L
4,4'-DDT	0.10	0.16	UG/L
DIELDRIN	0.20	0.20 U	UG/L
ALPHA-ENDOSULFAN	0.10	0.20	UG/L
BETA-ENDOSULFAN	0.20	0.20 U	UG/L
ENDOSULFAN SULFATE	0.20	0.20 U	UG/L
ENDRIN	0.10	0.19	UG/L
ENDRIN ALDEHYDE	0.20	0.20 U	UG/L
ENDRIN KETONE	0.20	0.20 U	UG/L
HEPTACHLOR	0.10	0.19	UG/L
HEPTACHLOR EPOXIDE	0.10	0.19	UG/L
HEXACHLORO BENZENE	0.10	0.41	UG/L
METHOXYCHLOR	1.0	1.0	UG/L
4,4'-TDE (DDD)	0.10	0.18	UG/L
TOXAPHENE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	33 *	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	77	%

Data Path : J:\ACQUADATA\6890D\DATA\062608\
 Data File : ex889.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:38 pm
 Operator : M.PEDRO
 Sample : 1112525 1. *1112530*
 Misc : ~~06/25/08~~ 100 8081/608 lcsd
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:49:27 2008
 Quant Method : J:\ACQUADATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.04	1446.8E6	4548.1E6	76.822	74.540
Spiked Amount	100.000	Range 30 - 150	Recovery =		76.82%	74.54%
25) S SURR2,Decachloro	17.40	17.46	557.0E6	1351.3E6	32.613	30.956
Spiked Amount	100.000	Range 30 - 150	Recovery =		32.61%	30.96%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1112.5E6	3484.2E6	40.955	39.595
3) tc alpha-BHC	10.27	10.09	557.5E6	1870.5E6	18.563	20.228
4) tcm gamma-BHC (L	10.79	10.66	506.5E6	1589.3E6	18.425	19.345
5) tcm Heptachlor	11.53	11.31	461.5E6	1492.7E6	17.150	18.691
6) tcm Aldrin	11.99	11.78	362.5E6	1090.2E6	14.728	14.546
7) tc beta-BHC	10.96	10.82	231.4E6	733.6E6	20.041	20.564
8) tc delta-BHC	11.23	11.25	467.5E6	1271.3E6	16.904	15.300
9) tc Heptachlor E	12.89	12.60	430.7E6	1255.3E6	18.691	18.682
10) tc alpha-Endosu	13.47	13.15	406.9E6	1142.7E6	19.747	19.177
11) tc gamma-Chlord	13.08	12.87	414.2E6	1182.9E6	18.175	16.965
12) tc alpha-Chlord	13.27	13.08	394.4E6	1092.2E6	17.647	16.446
13) tc 4,4'-DDE	13.38	13.33	366.2E6	1089.0E6	16.290	16.709
14) tcm Dieldrin	13.82	13.53	437.3E6	1252.5E6	18.782	19.194
15) tcm Endrin	14.16	13.96	393.9E6	1068.9E6	18.883	18.844
17) tc beta-Endosul	14.49	14.27	355.3E6	1034.7E6	18.075	18.866
18) tc 4,4'-DDD	14.25	14.14	335.6E6	883.0E6	17.844	17.103
19) tcm 4,4'-DDT	14.65	14.57	323.7E6	890.6E6	16.160	16.252
20) tc Endrin Aldeh	15.12	14.75	223.8E6	620.8E6	15.144	15.431
21) tc Endosulfan S	15.76	15.15	322.1E6	860.5E6	17.758	17.337
22) tc Methoxychlor	15.35	15.55	999.4E6	2437.9E6	101.257	101.091
24) tc Endrin Keton	16.16	15.91	385.8E6	974.9E6	18.477	18.008
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

MP 4/27

Data Path : J:\ACQUDATA\6890D\DATA\062608\
Data File : ex889.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 9:38 pm
Operator : M.PEDRO
Sample : 1112525 1.
Misc : 06/25/08 100 8081/608 lcsd
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 09:49:27 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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

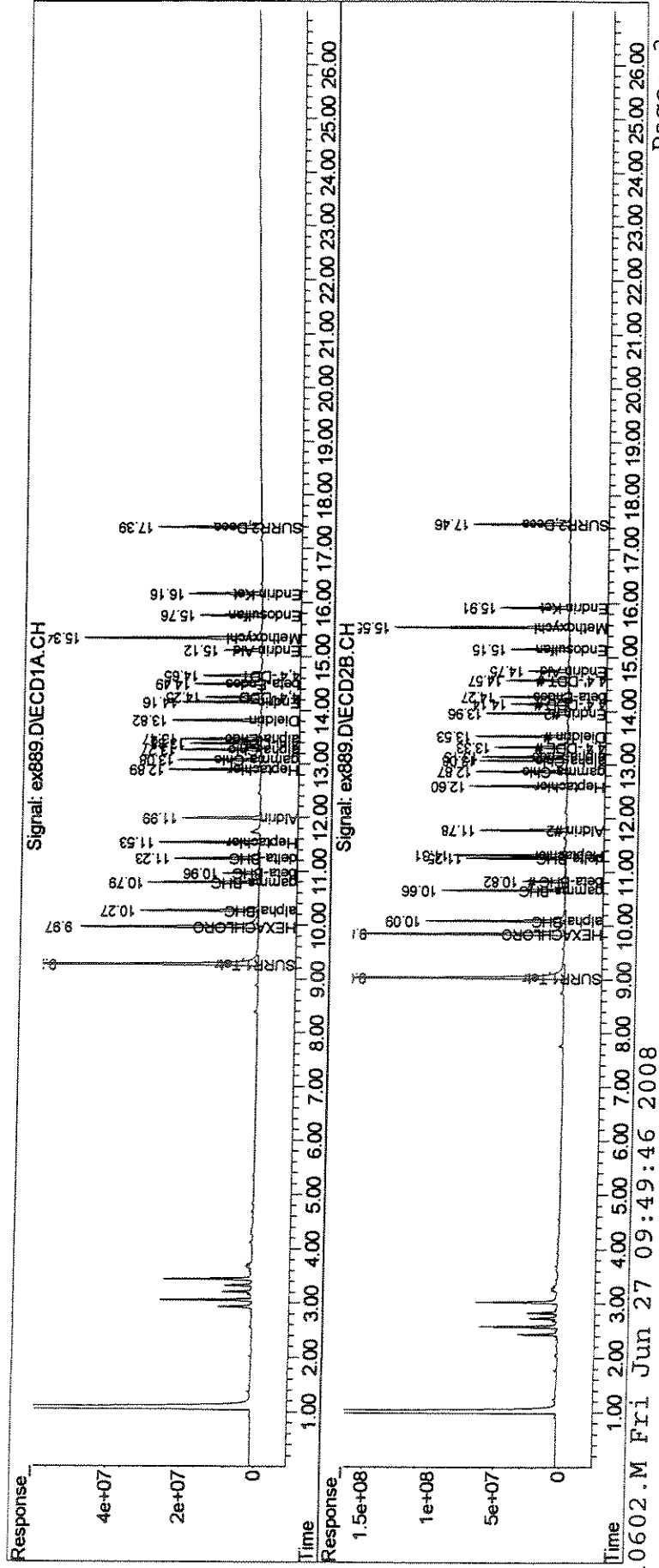
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/1	ug/1
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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : ex889.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:38 pm
 Operator : M.PEDRO
 Sample : 1112525 1.
 Misc : 06/25/08 100 8081/608 lcsd
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 09:49:27 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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



Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX889.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:38 pm
 Operator : M.PEDRO
 Sample : 1112525 1.
 Misc : 06/25/08 100 8081/608 lcsd
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:06 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	9.27	9.04	1446.8E6	4548.1E6	76.822	74.540
Spiked Amount	100.000	Range 30 - 150	Recovery =		76.82%	74.54%
25) S SURR2,Decachloro	17.40	17.46	557.0E6	1351.3E6	32.613	30.956
Spiked Amount	100.000	Range 30 - 150	Recovery =		32.61%	30.96%
Target Compounds						
2) TC HEXACHLOROENZEN	9.97	9.85	1112.5E6	3484.2E6	40.955	39.595
3) tc alpha-BHC	10.27	10.09	557.5E6	1870.5E6	18.563	20.228
4) tcm gamma-BHC (L	10.79	10.66	506.5E6	1589.3E6	18.425	19.345
5) tcm Heptachlor	11.53	11.31	461.5E6	1492.7E6	17.150	18.691
6) tcm Aldrin	11.99	11.78	362.5E6	1090.2E6	14.728	14.546
7) tc beta-BHC	10.96	10.82	231.4E6	733.6E6	20.041	20.564
8) tc delta-BHC	11.23	11.25	467.5E6	1271.3E6	16.904	15.300
9) tc Heptachlor E	12.89	12.60	430.7E6	1255.3E6	18.691	18.682
10) tc alpha-Endosu	13.47	13.15	406.9E6	1142.7E6	19.747	19.177
11) tc gamma-Chlord	13.08	12.87	414.2E6	1182.9E6	18.175	16.965
12) tc alpha-Chlord	13.27	13.08	394.4E6	1092.2E6	17.647	16.446
13) tc 4,4'-DDE	13.38	13.33	366.2E6	1089.0E6	16.290	16.709
14) tcm Dieldrin	13.82	13.53	437.3E6	1252.5E6	18.782	19.194
15) tcm Endrin	14.16	13.96	393.9E6	1068.9E6	18.883	18.844
16) tc KEPONE	14.25	0.00	335.6E6	0	53.630	N.D. #
17) tc beta-Endosul	14.49	14.27	355.3E6	1034.7E6	18.075	18.866
18) tc 4,4'-DDD	14.25	14.14	335.6E6	883.0E6	17.844	17.103
19) tcm 4,4'-DDT	14.65	14.57	323.7E6	890.6E6	16.160	16.252
20) tc Endrin Aldeh	15.12	14.75	223.8E6	620.8E6	15.144	15.431
21) tc Endosulfan S	15.76	15.15	322.1E6	860.5E6	17.758	17.337
22) tc Methoxychlor	15.35	15.55	999.4E6	2437.9E6	101.257	101.091
24) tc Endrin Keton	16.16	15.91	385.8E6	974.9E6	18.477	18.008
29) L8C Toxaphene{4}	16.16	0.00	385.8E6	0	434.082	N.D. #
30) L8C Toxaphene{5}	16.34	0.00	8551622	0	12.666	N.D. #
Sum Toxaphene			394.4E6	0	446.748	N.D.
Average Toxaphene					223.374	0.000

Data Path : J:\ACQUDATA\6890D\DATA\062608\
 Data File : EX889.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 26 Jun 2008 9:38 pm
 Operator : M.PEDRO
 Sample : 1112525 1.
 Misc : 06/25/08 100 8081/608 lcsd
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jun 27 08:32:06 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Fri Jun 27 08:30:03 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	0.00	11.10	0	23491089	N.D.	9.327 #
32) L9C Chlordane {2}	11.53	0.00	461.5E6	0	424.303	N.D. #
33) L9C Chlordane {3}	0.00	12.04	0	10442570	N.D.	3.761 #
34) L9C Chlordane {4}	13.08	0.00	414.2E6	0	151.353	N.D. #
Sum Chlordane			875.7E6	33933658	575.656	13.088
Average Chlordane					287.828	6.544

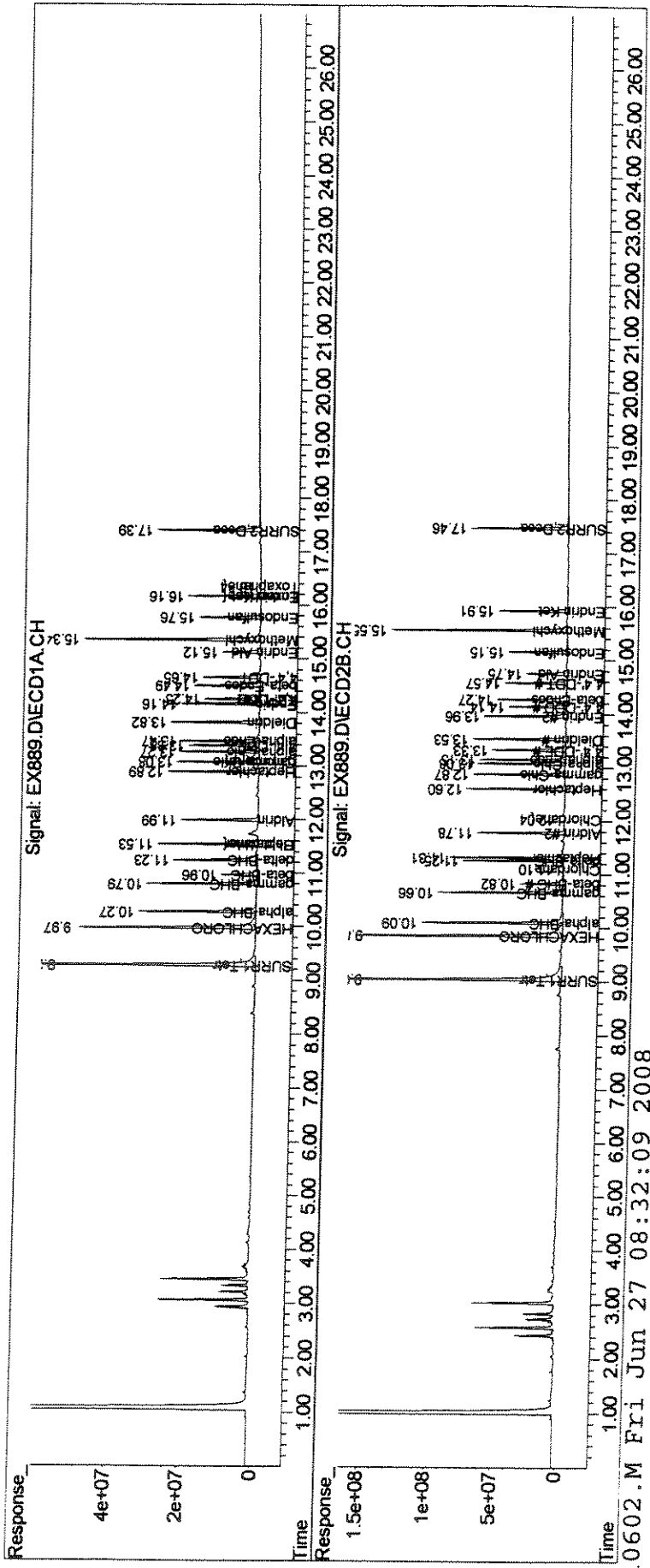
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQDATA\6890D\DATA\062608\
Data File : EX889.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2008 9:38 pm
Operator : M.PEDRO
Sample : 1112525 1.
Misc : 06/25/08 100 8081/608 lcsd
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 27 08:32:06 2008
Quant Method : J:\ACQDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jun 27 08:30:03 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



01047

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A.NEVA

Reported: 07/30/08

Project Reference:

Client Sample ID : BLANK SPIKE

Date Sampled : Order #: 1113456 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.063	UG/L
ALPHA-BHC	0.050	0.075	UG/L
BETA-BHC	0.050	0.081	UG/L
GAMMA-BHC	0.050	0.079	UG/L
DELTA-BHC	0.050	0.073	UG/L
ALPHA-CHLORDANE	0.050	0.079	UG/L
GAMMA-CHLORDANE	0.050	0.077	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.080	UG/L
4,4'-DDT	0.050	0.085	UG/L
DIELDRIN	0.10	0.10 U	UG/L
ALPHA-ENDOSULFAN	0.050	0.088	UG/L
BETA-ENDOSULFAN	0.10	0.10 U	UG/L
ENDOSULFAN SULFATE	0.10	0.10 U	UG/L
ENDRIN	0.050	0.090	UG/L
ENDRIN ALDEHYDE	0.10	0.10 U	UG/L
ENDRIN KETONE	0.10	0.10 U	UG/L
HEPTACHLOR	0.050	0.078	UG/L
HEPTACHLOR EPOXIDE	0.050	0.081	UG/L
HEXACHLOROBENZENE	0.050	0.18	UG/L
METHOXYCHLOR	0.50	0.50 U	UG/L
4,4'-TDE (DDD)	0.050	0.082	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	80	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	80	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:05 pm
 Operator : M.PEDRO
 Sample : 1113456 1.0
 Misc : 06/27/08 200 ensr 8081 lcs
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:37:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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	9.27	9.03	1515.2E6	4576.4E6	80.454	75.004
Spiked Amount	100.000	Range	30 - 150	Recovery	=	80.45% 75.00%
25) S SURR2,Decachloro	17.39	17.46	1361.1E6	3310.3E6	79.688	75.835
Spiked Amount	100.000	Range	30 - 150	Recovery	=	79.69% 75.83%
Target Compounds						
2) TC HEXACHLORO BENZEN	9.97	9.85	1005.4E6	3107.2E6	37.009	35.311
3) tc alpha-BHC	10.26	10.09	448.4E6	1329.2E6	14.930m	14.375m
4) tcm gamma-BHC (L	10.79	10.65	423.3E6	1303.3E6	15.399m	15.863m
5) tcm Heptachlor	11.53	11.31	379.5E6	1244.5E6	14.102m	15.583m
6) tcm Aldrin	11.99	11.77	312.1E6	929.4E6	12.681m	12.401m
7) tc beta-BHC	10.96	10.82	187.9E6	498.5E6	16.271m	13.975m
8) tc delta-BHC	11.23	11.25	401.9E6	1108.6E6	14.530m	13.342m
9) tc Heptachlor E	12.89	12.60	362.7E6	1090.4E6	15.743m	16.228m
10) tc alpha-Endosu	13.47	13.15	358.9E6	1049.6E6	17.420	17.615
11) tc gamma-Chlord	13.08	12.87	349.5E6	1025.0E6	15.333m	14.701m
12) tc alpha-Chlord	13.27	13.07	355.1E6	1010.3E6	15.889	15.213
13) tc 4,4'-DDE	13.38	13.33	332.1E6	1040.6E6	14.772	15.965
14) tcm Dieldrin	13.82	13.53	401.9E6	1222.2E6	17.259	18.730
15) tcm Endrin	14.16	13.96	365.5E6	1021.7E6	17.521	18.013
17) tc beta-Endosul	14.49	14.26	303.4E6	939.0E6	15.436	17.121m
18) tc 4,4'-DDD	14.25	14.13	300.8E6	846.4E6	15.993	16.395
19) tcm 4,4'-DDT	14.65	14.57	318.8E6	927.2E6	15.915	16.920
20) tc Endrin Aldeh	15.12	14.74	182.9E6	597.2E6	12.378	14.844
21) tc Endosulfan S	15.76	15.15	284.4E6	800.9E6	15.678	16.136
22) tc Methoxychlor	15.34	15.55	908.8E6	2286.8E6	92.082	94.828
24) tc Endrin Keton	16.16	15.91	340.1E6	878.3E6	16.287	16.223
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

up 7/1

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:05 pm
 Operator : M.PEDRO
 Sample : 1113456 1.0
 Misc : 06/27/08 200 ensr 8081 lcs
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:37:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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

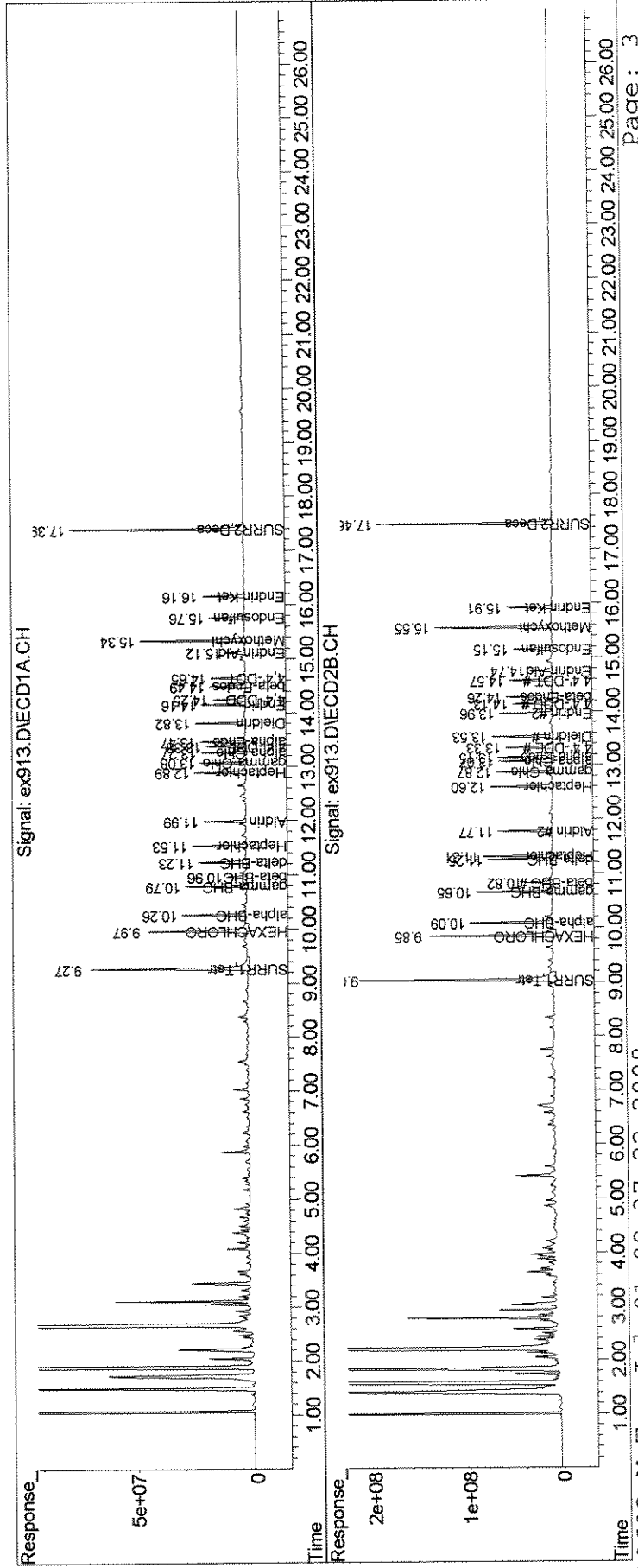
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:05 pm
 Operator : M.PEDRO
 Sample : 1113456 1.0
 Misc : 06/27/08 200 ensr 8081 lcs
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:37:11 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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



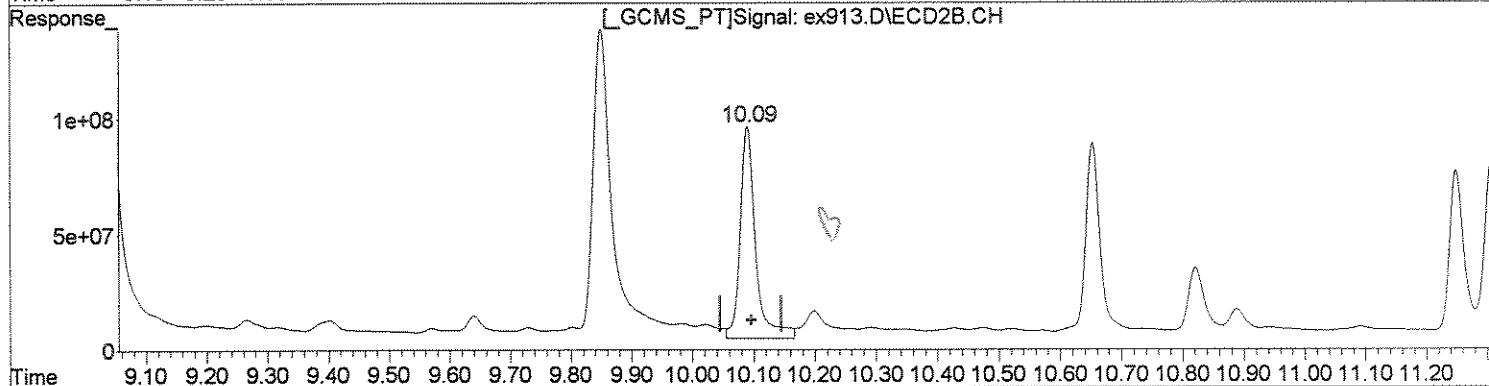
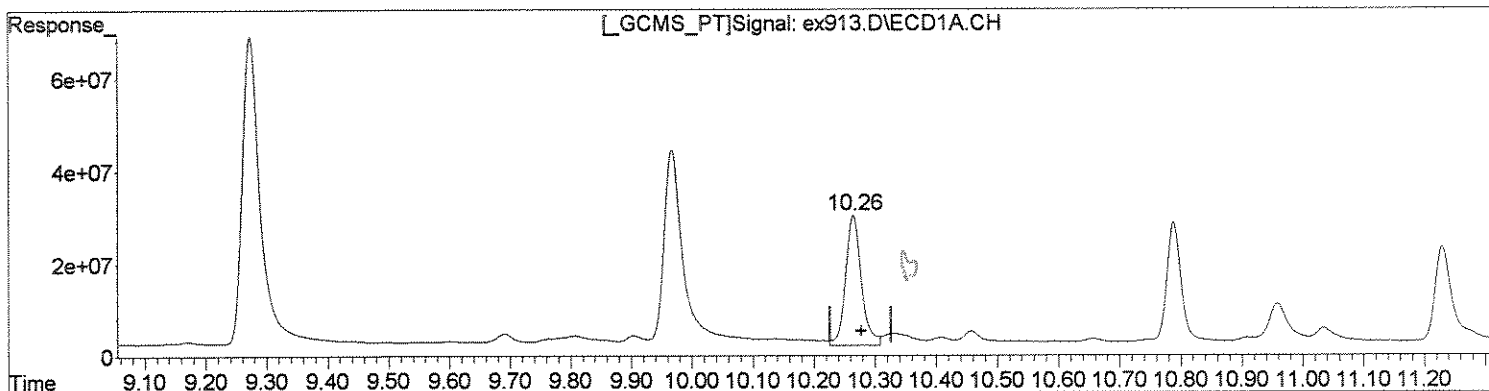
81051

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
10.26min 16.800ug/l
response 504531905

(3) alpha-BHC #2 (tc)
10.09min 17.351ug/l
response 1604365426

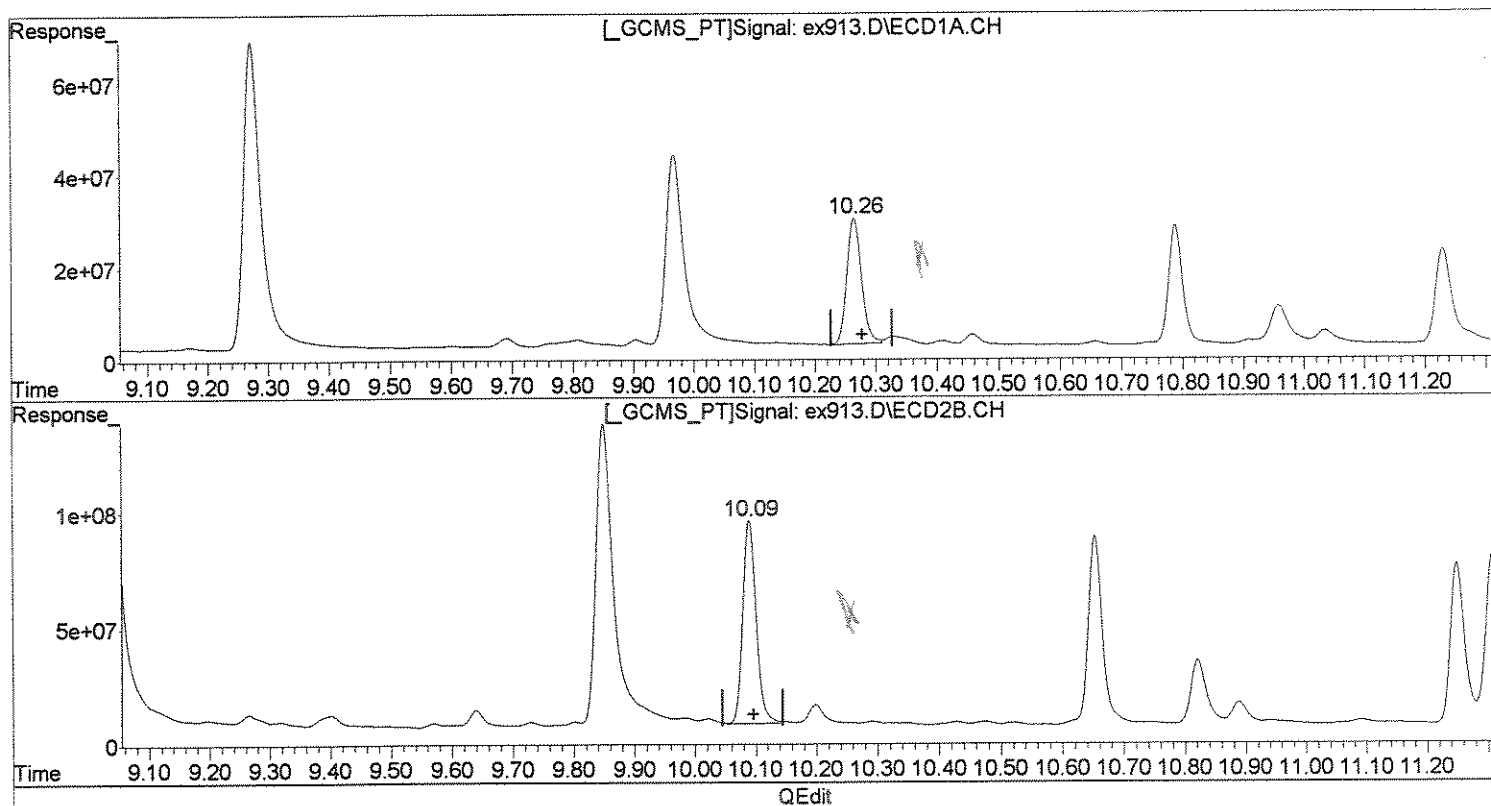
Dark

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(3) alpha-BHC (tc)
10.26min 14.930ug/l m
response 448363828

(3) alpha-BHC #2 (tc)
10.09min 14.375ug/l m
response 1329167261

MW 7/1

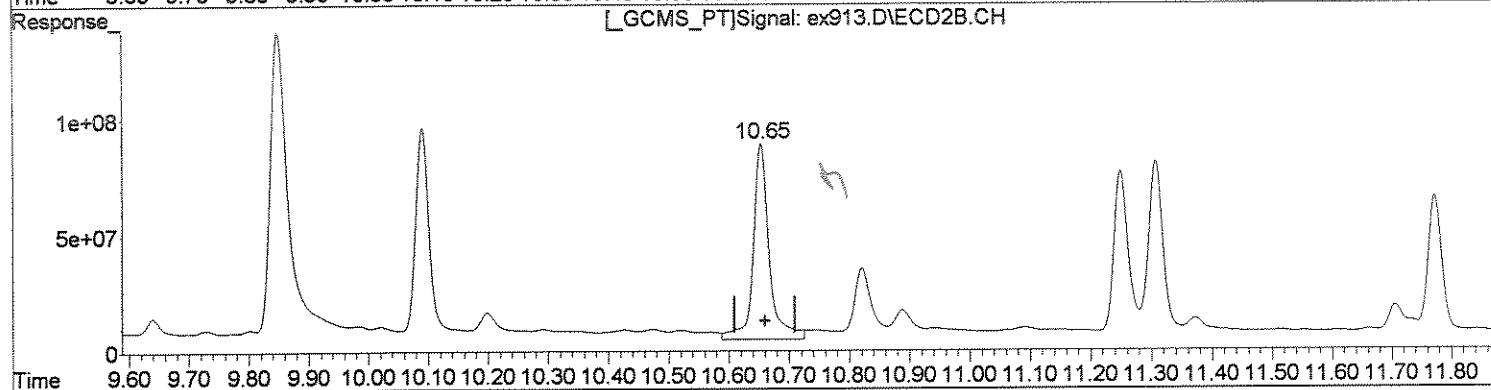
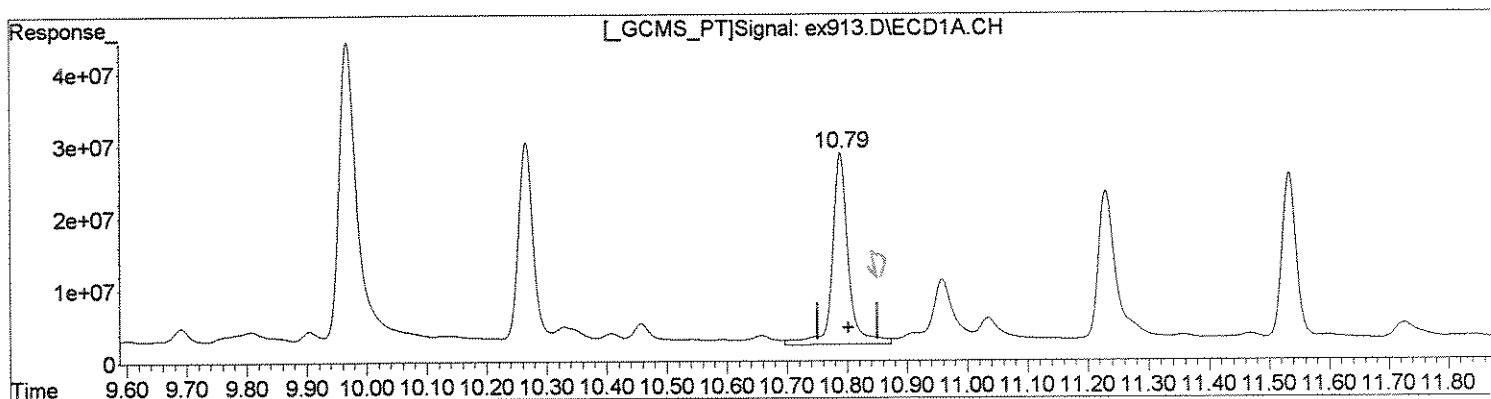
MW 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(4) gamma-BHC (L (tcm)
10.79min 17.972ug/l
response 494027982

(4) gamma-BHC (L #2 (tcm)
10.65min 18.866ug/l
response 1549954147

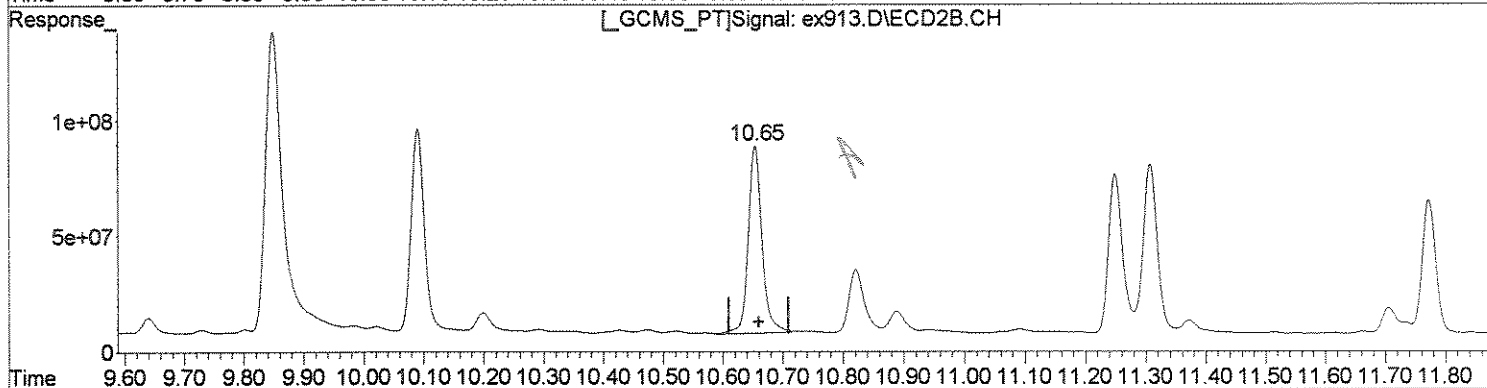
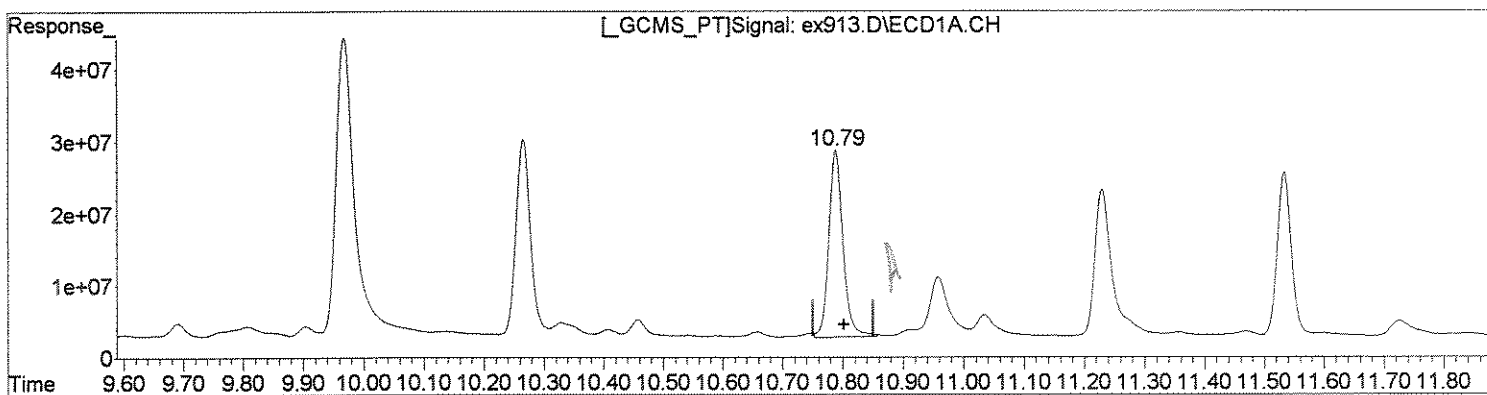
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
10.79min 15.399ug/l m
response 423291098

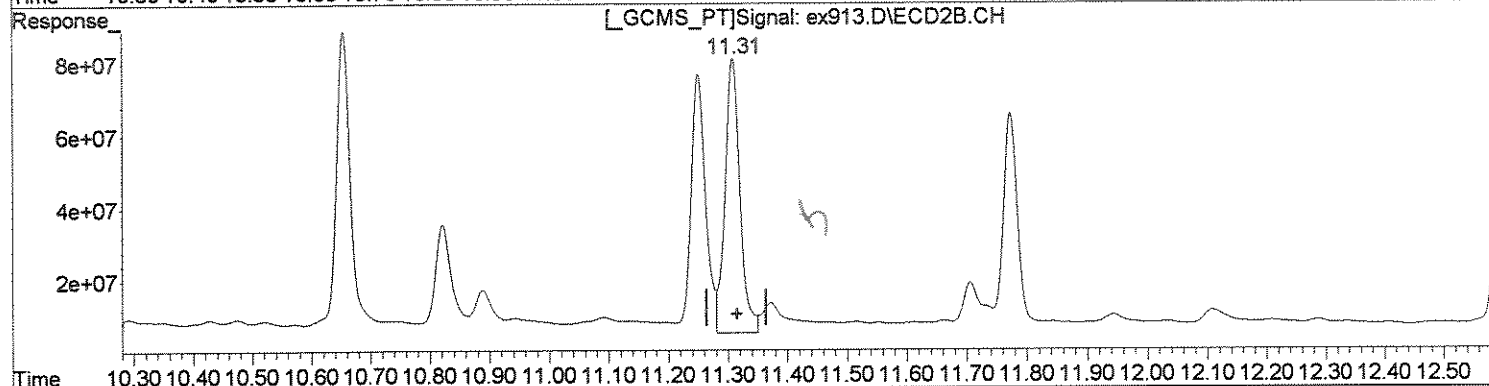
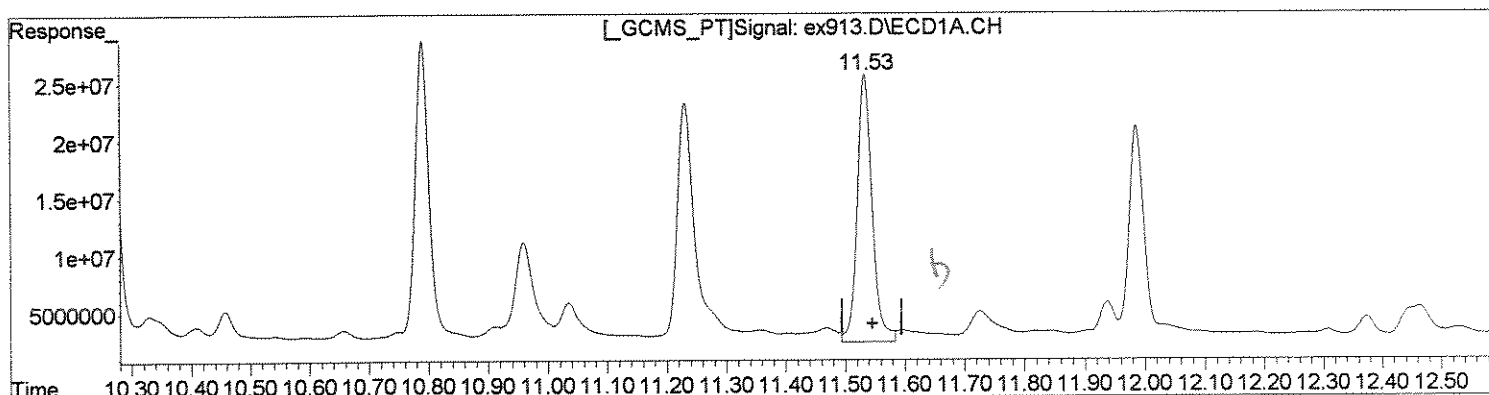
(4) gamma-BHC (L #2 (tcm)
10.65min 15.863ug/l m
response 1303295388

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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

(5) Heptachlor (tcm)
11.53min 15.140ug/l
response 407402033

(5) Heptachlor #2 (tcm)
11.31min 16.553ug/l
response 1321992783

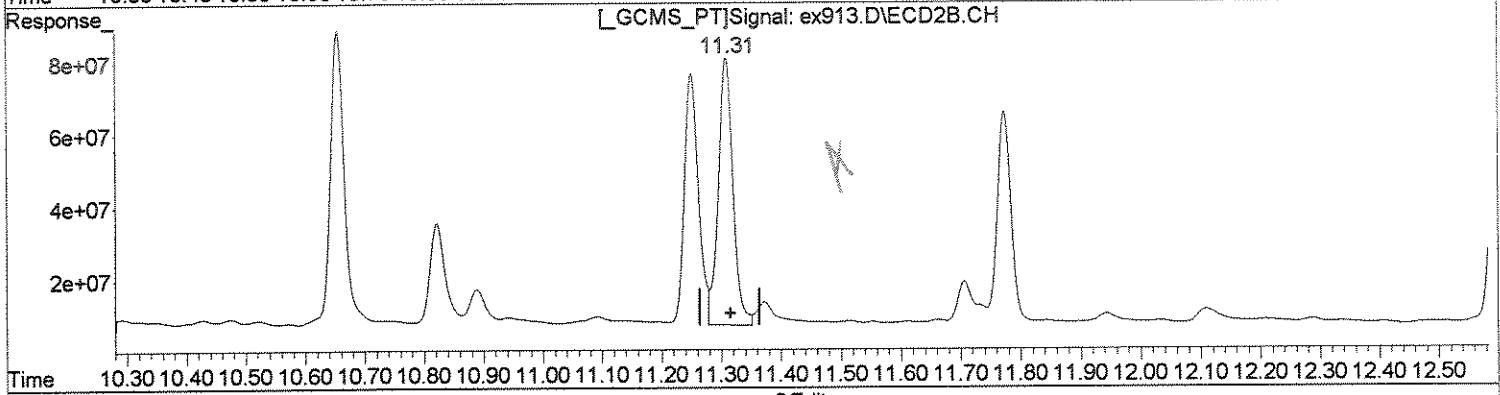
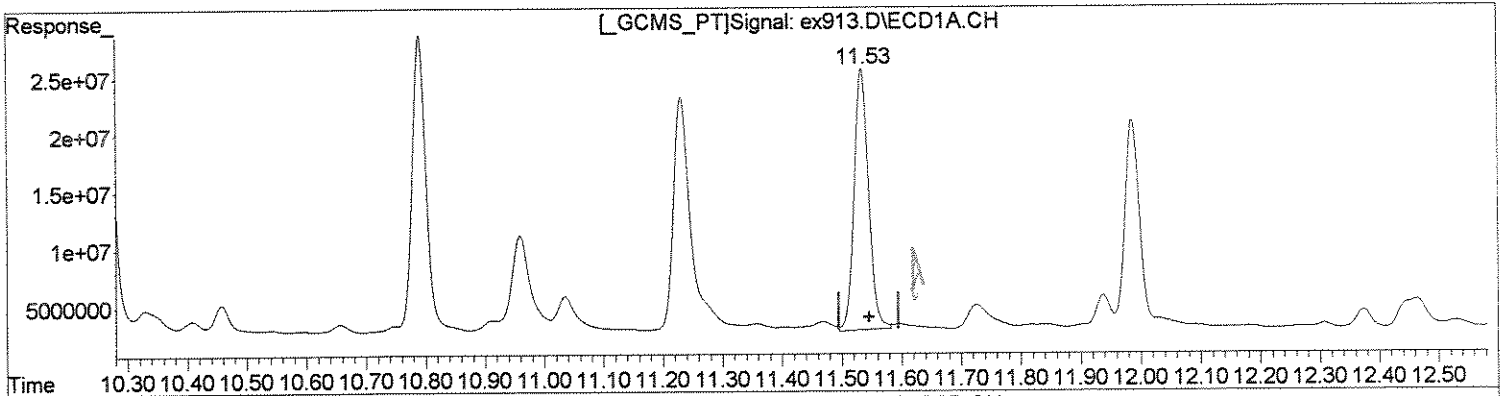
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(5) Heptachlor (tcm)
11.53min 14.102ug/l m
response 379472897

(5) Heptachlor #2 (tcm)
11.31min 15.583ug/l m
response 1244499552

mul 7/1
MW 7/1

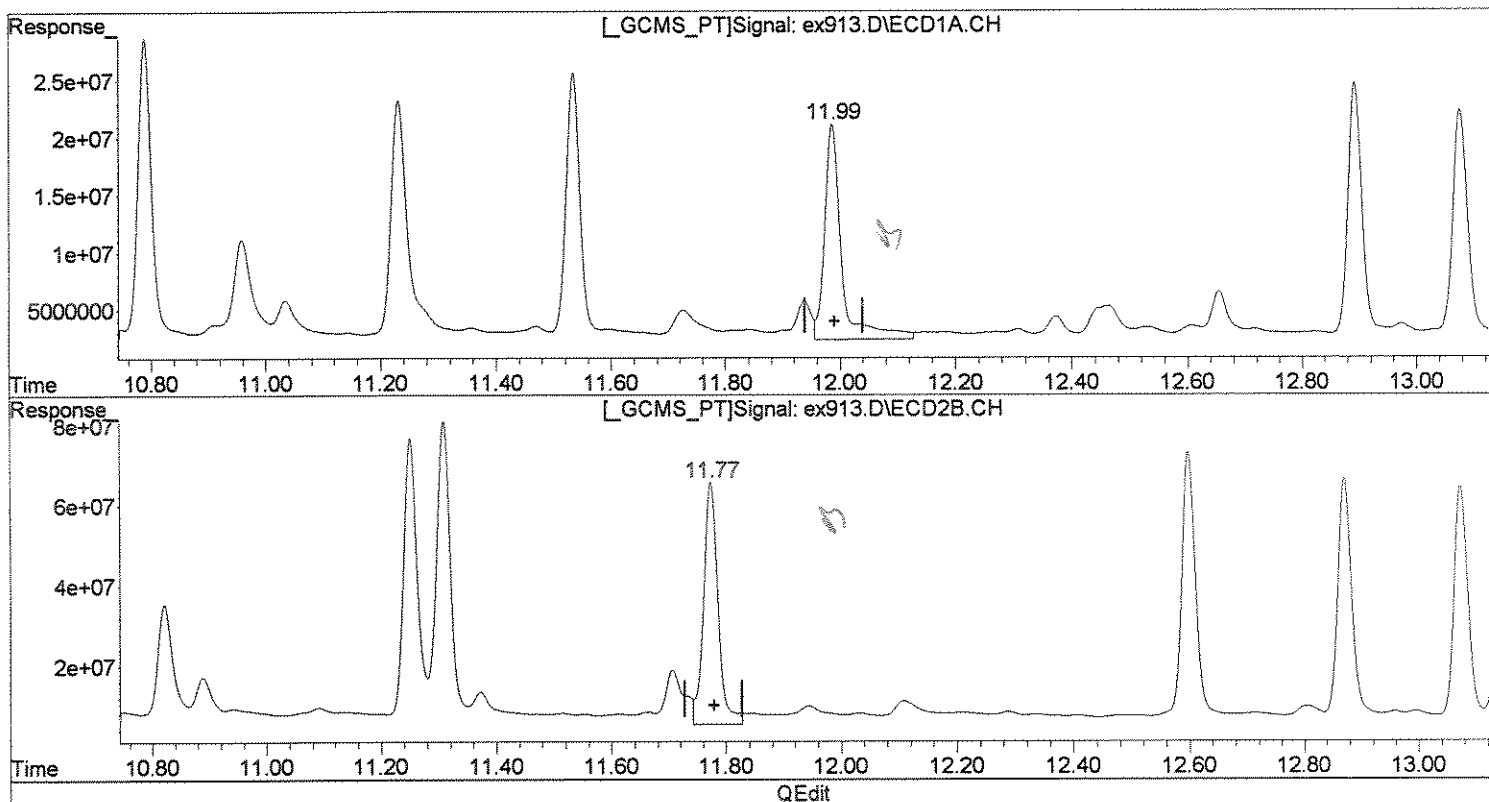
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(6) Aldrin (tcm)
11.99min 15.657ug/l
response 385371585

(6) Aldrin #2 (tcm)
11.77min 13.997ug/l
response 1049012443

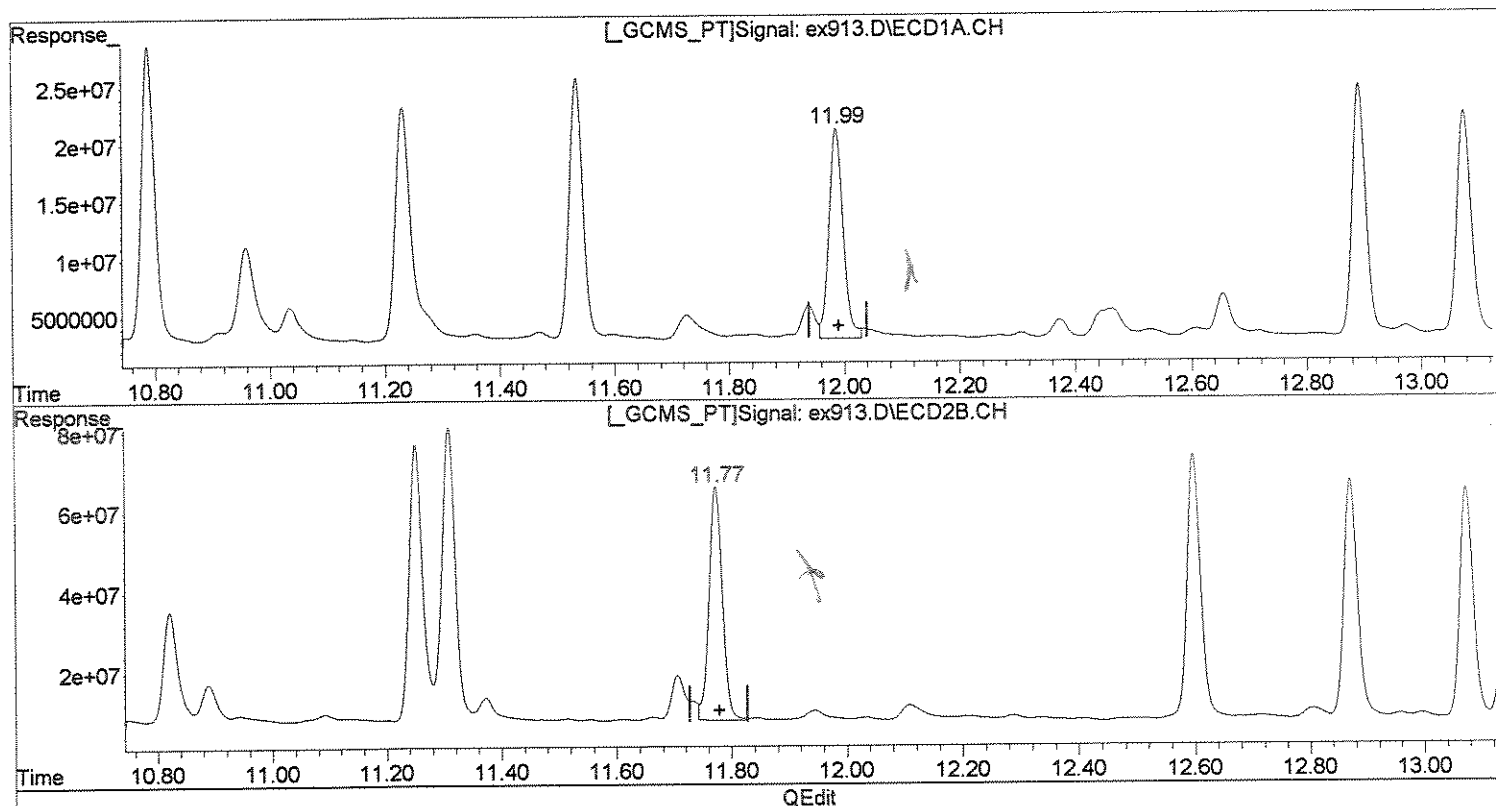
BAL

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(6) Aldrin (tcm)
11.99min 12.681ug/l m
response 312115779

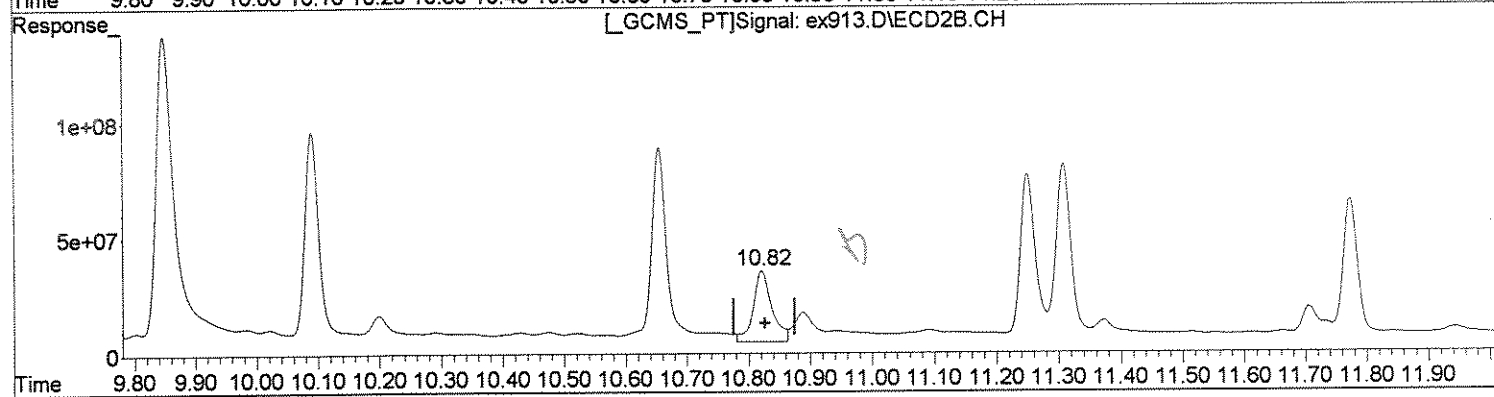
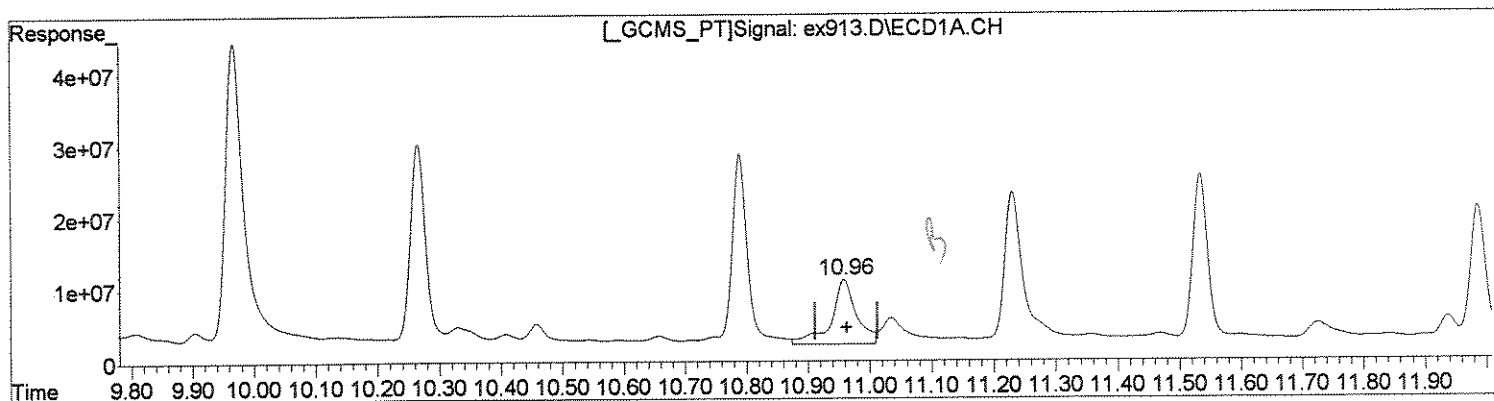
(6) Aldrin #2 (tcm)
11.77min 12.401ug/l m
response 929406859

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(7) beta-BHC (tc)
10.96min 21.682ug/l
response 250330909

(7) beta-BHC #2 (tc)
10.82min 17.770ug/l
response 633919409

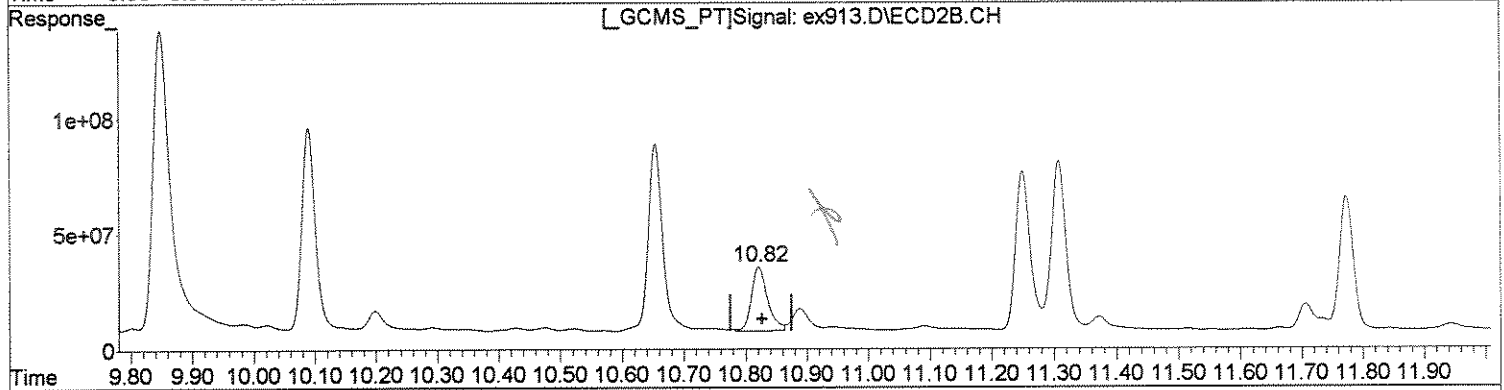
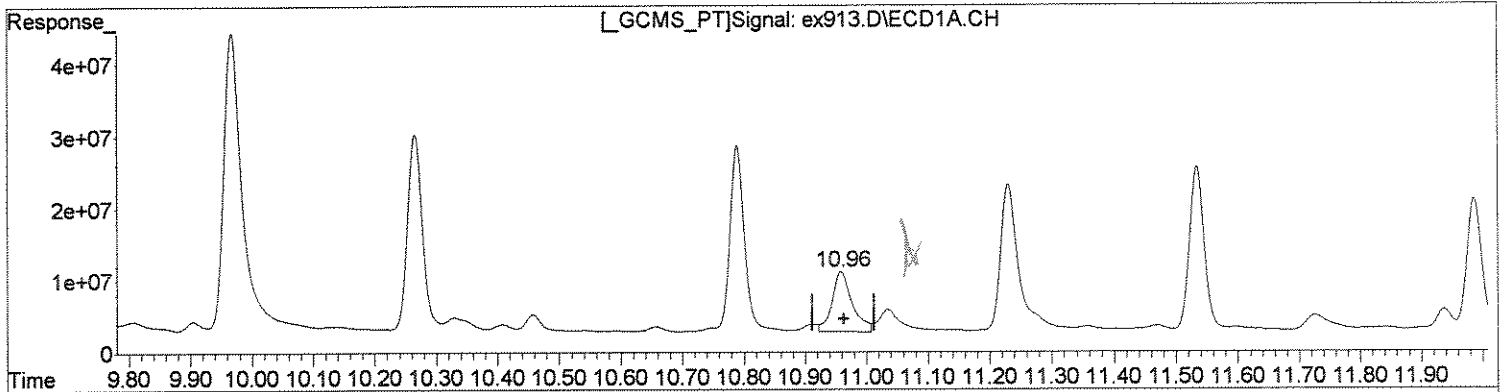
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
10.96min 16.271ug/l m
response 187858770

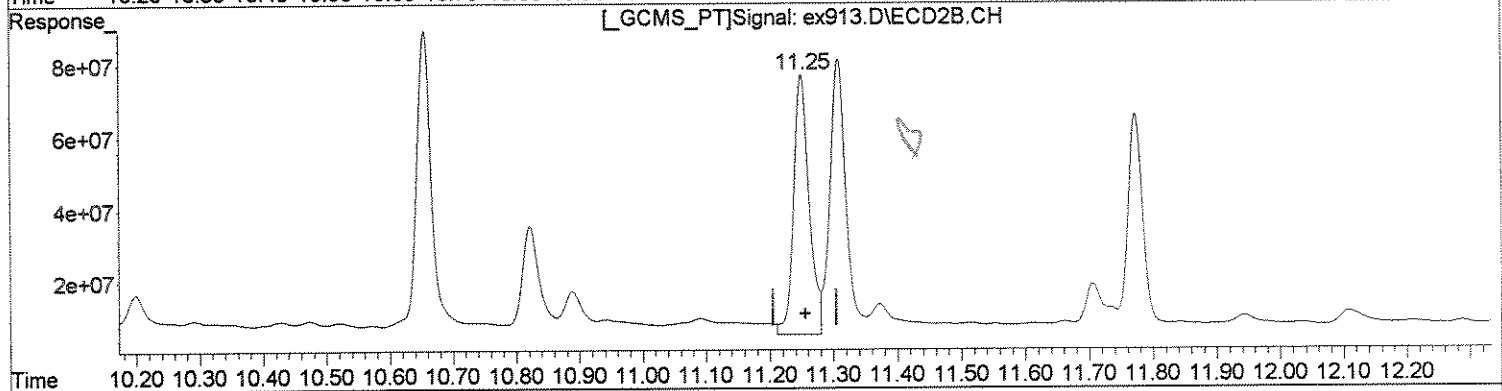
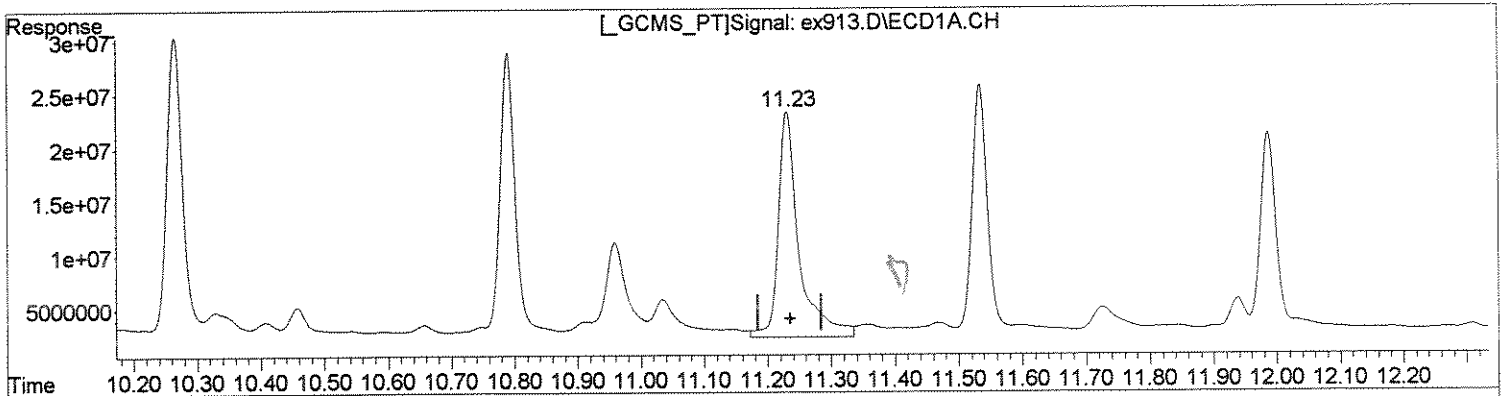
(7) beta-BHC #2 (tc)
10.82min 13.975ug/l m
response 498528677

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(8) delta-BHC (tc)
11.23min 17.235ug/l
response 476659605

(8) delta-BHC #2 (tc)
11.25min 14.686ug/l
response 1220311329

Handwritten signature

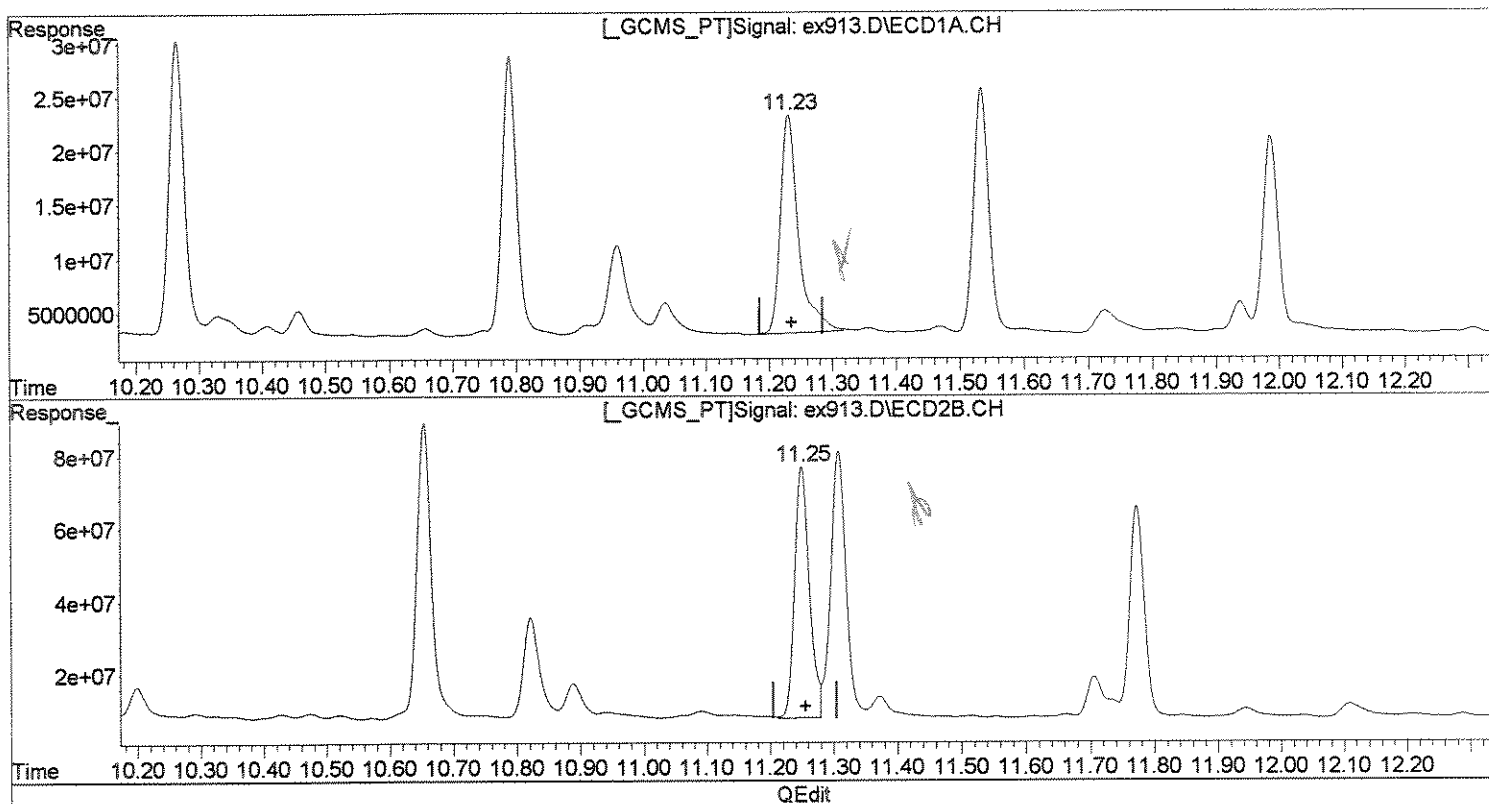
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(8) delta-BHC (tc)
11.23min 14.530ug/l m
response 401850913

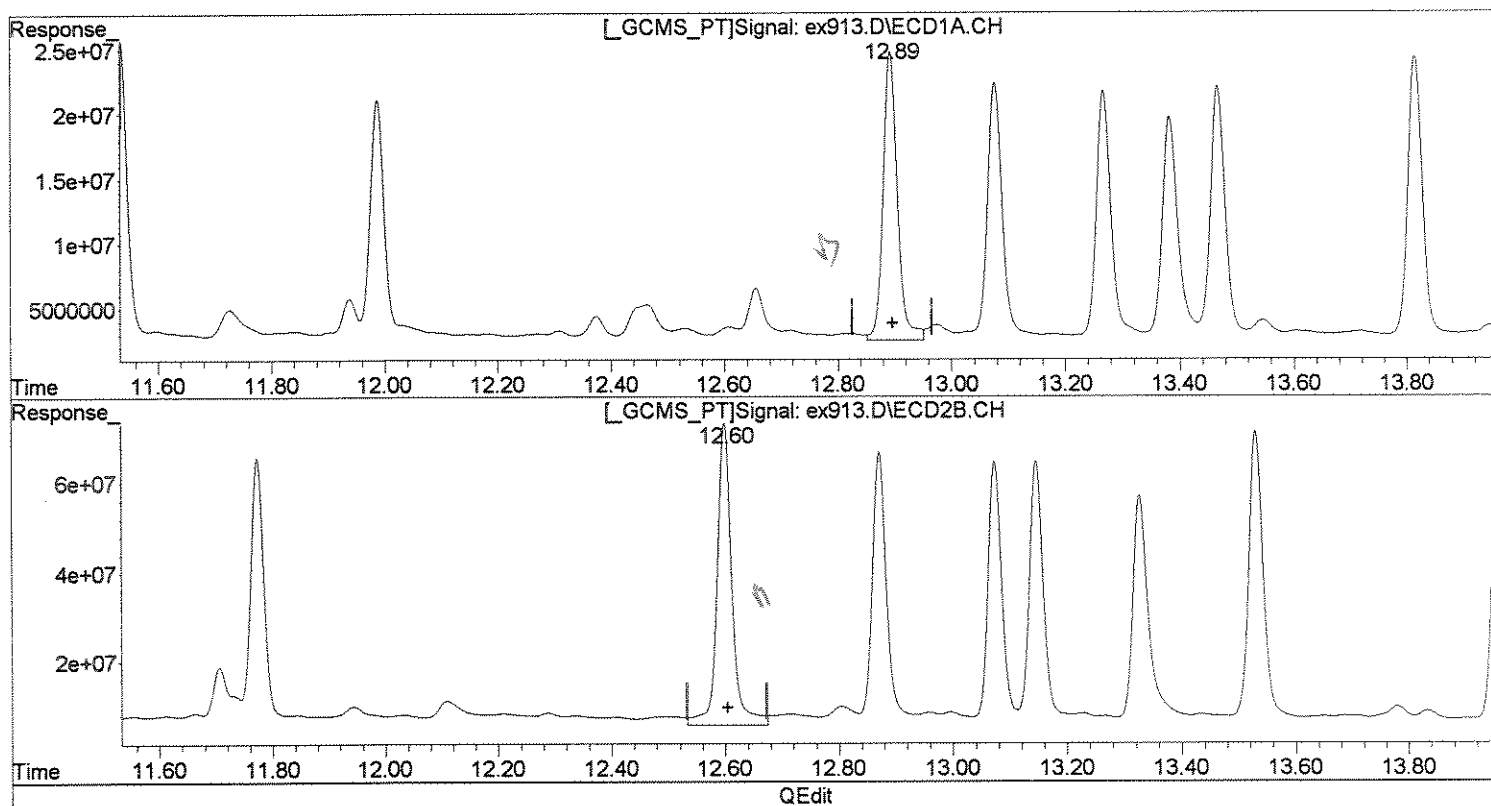
(8) delta-BHC #2 (tc)
11.25min 13.342ug/l m
response 1108628400

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
12.89min 16.760ug/l
response 386179287

(9) Heptachlor E #2 (tc)
12.60min 18.322ug/l
response 1231080563

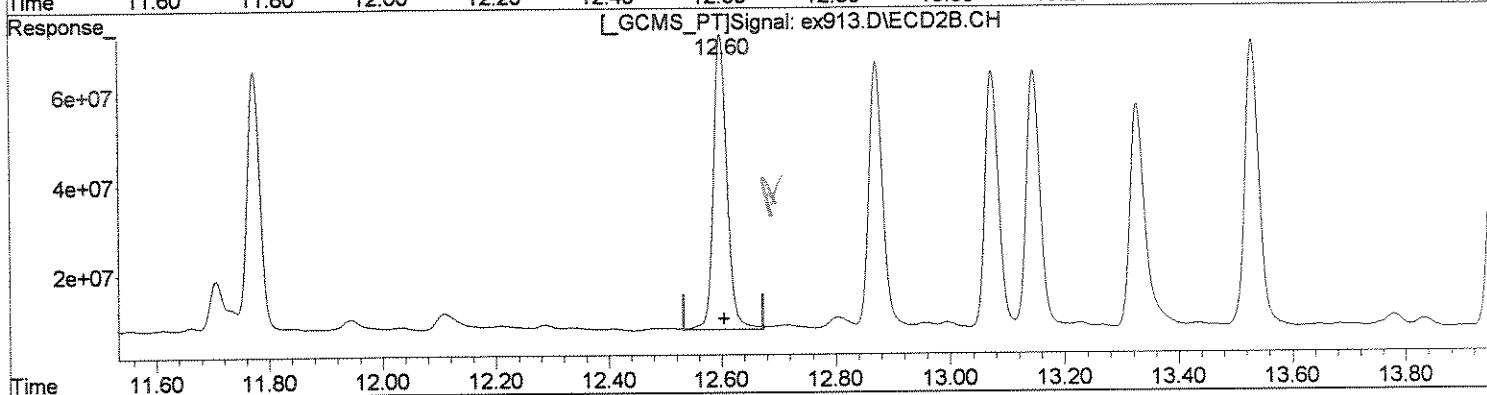
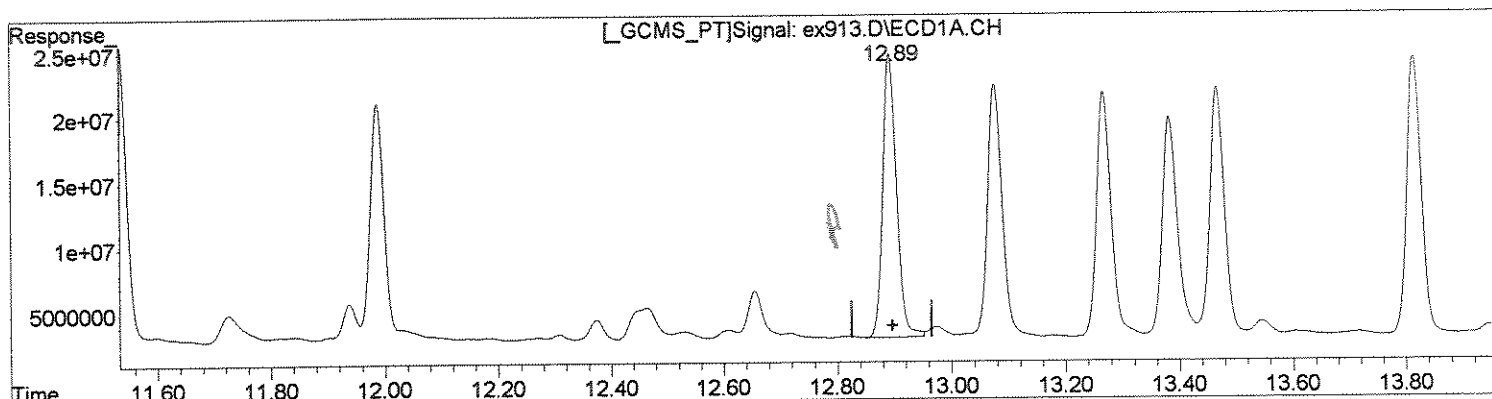
HUP

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
12.89min 15.743ug/l m
response 362741166

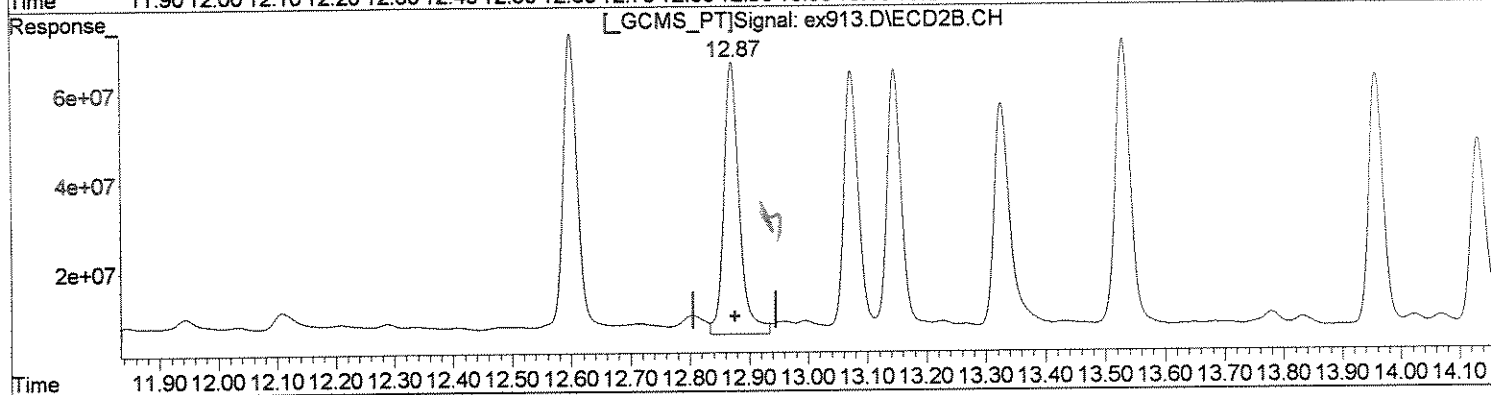
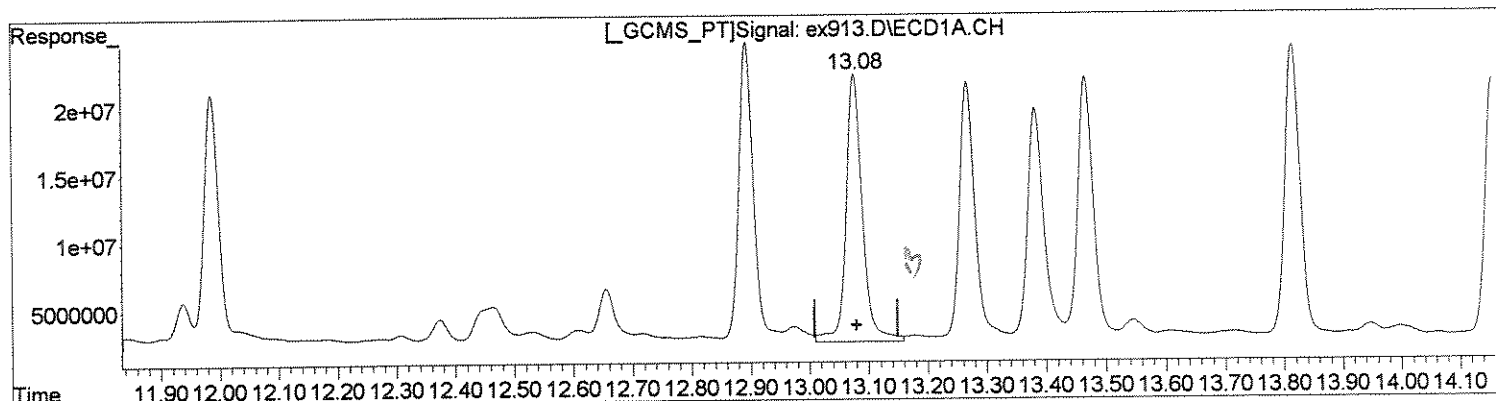
(9) Heptachlor E #2 (tc)
12.60min 16.228ug/l m
response 1090396601

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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

(11) gamma-Chlord (tc)
13.08min 16.642ug/l
response 379288327

(11) gamma-Chlord #2 (tc)
12.87min 15.735ug/l
response 1097096654

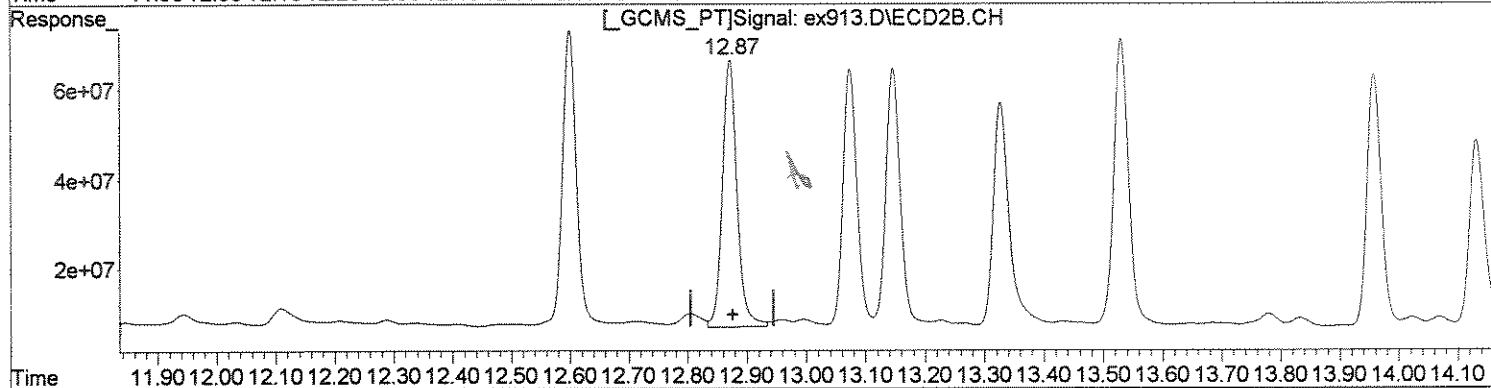
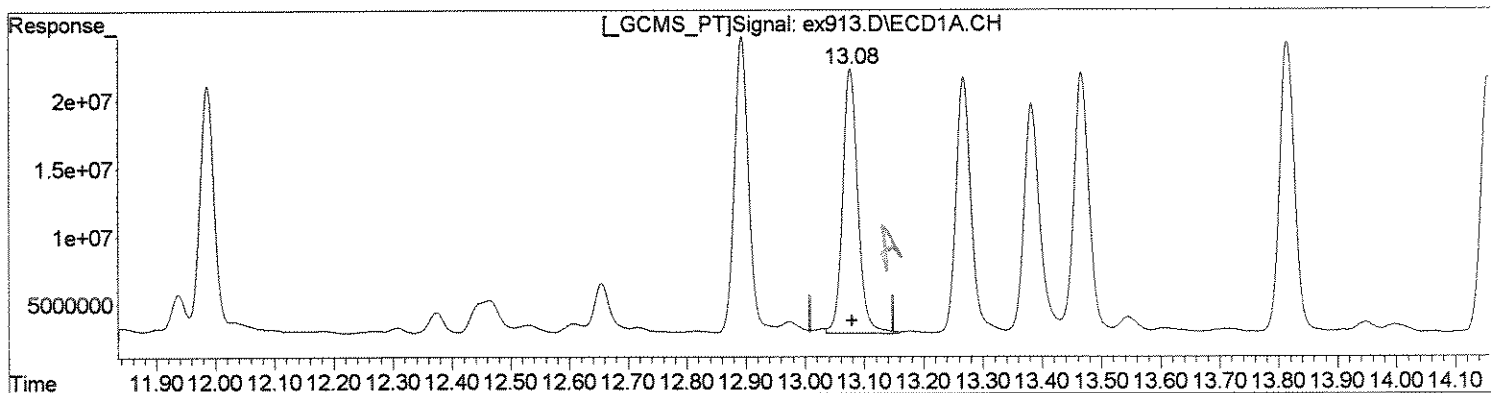
h

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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

(11) gamma-Chlord (tc)
13.08min 15.333ug/l m
response 349450806

(11) gamma-Chlord #2 (tc)
12.87min 14.701ug/l m
response 1024982669

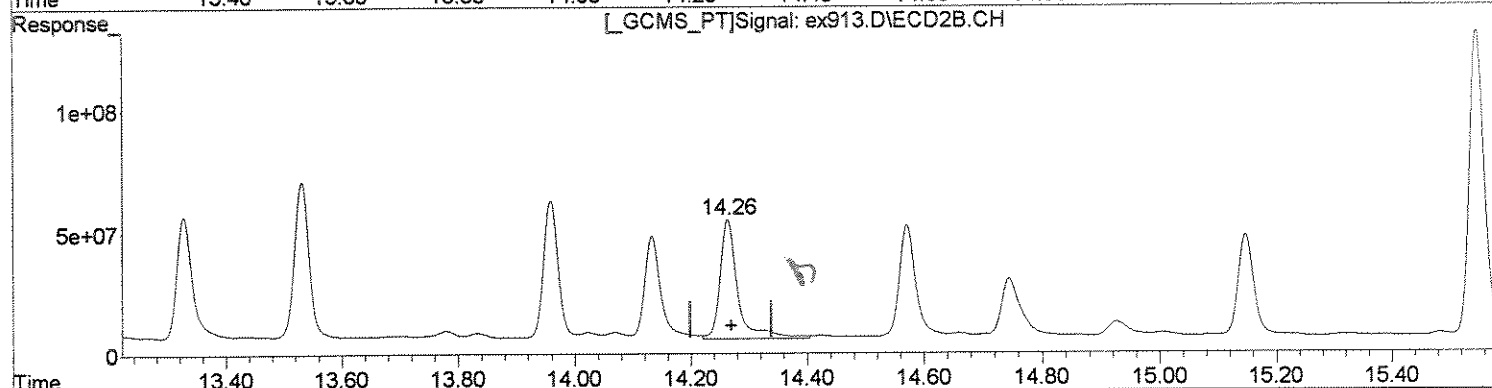
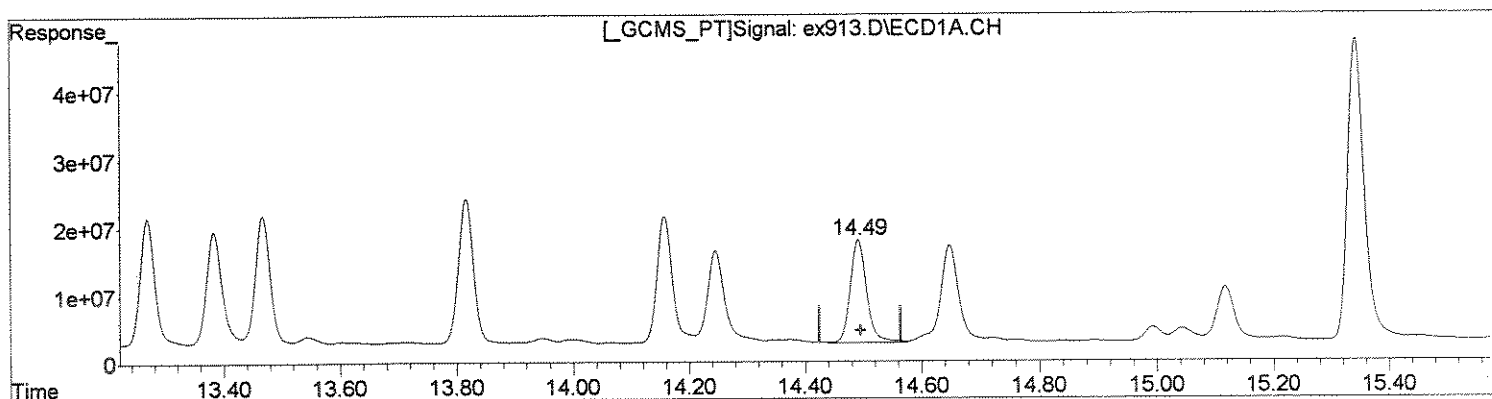
MW 7/1
MW 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(17) beta-Endosul (tc)
14.49min 15.436ug/l
response 303422971

(17) beta-Endosul #2 (tc)
14.26min 18.837ug/l
response 1033150106

Handwritten signature

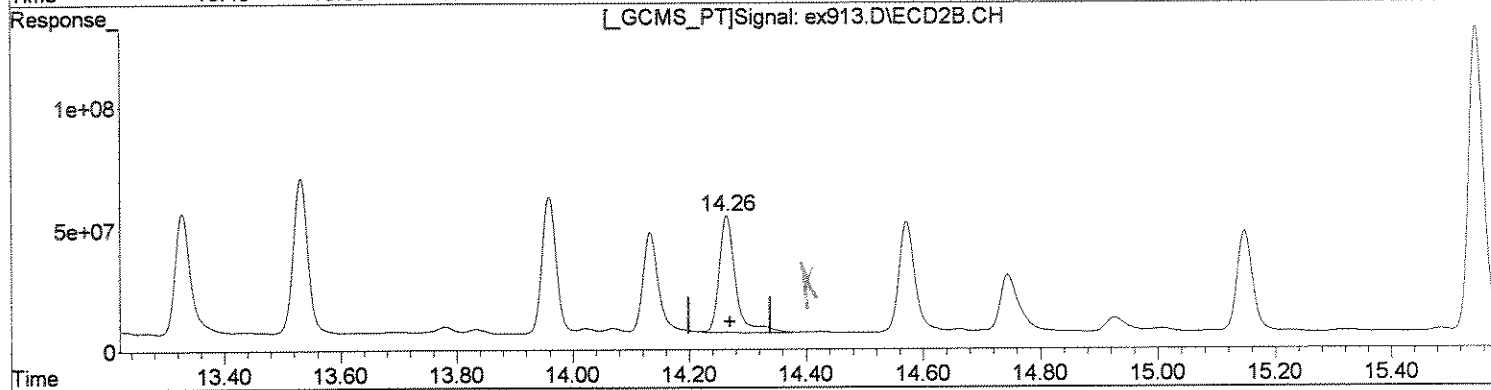
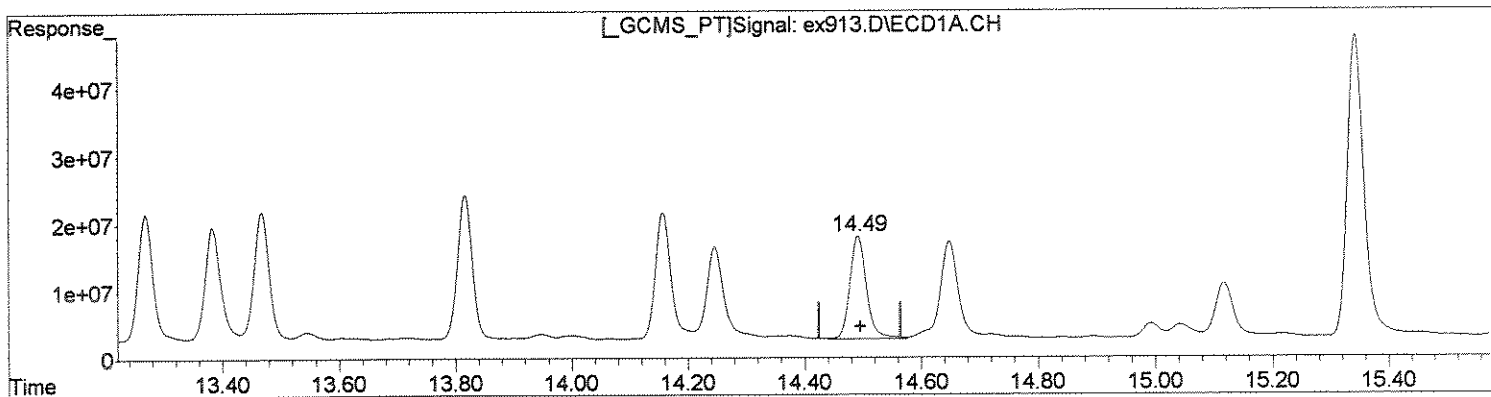
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:05 pm
Operator : M.PEDRO
Sample : 1113456 1.0
Misc : 06/27/08 200 ensr 8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(17) beta-Endosul (tc)
14.49min 15.436ug/l
response 303422971

(17) beta-Endosul #2 (tc)
14.26min 17.121ug/l m
response 939007874

mw 7/1
mw 7/1

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:05 pm
 Operator : M.PEDRO
 Sample : 1113456 1.0
 Misc : 06/27/08 200 ensr 8081 lcs
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:30 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1515.2E6	4576.4E6	80.454	75.004
Spiked Amount	100.000	Range 30 - 150	Recovery =		80.45%	75.00%
25) S SURR2,Decachloro	17.39	17.46	1361.1E6	3310.3E6	79.688	75.835
Spiked Amount	100.000	Range 30 - 150	Recovery =		79.69%	75.83%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1005.4E6	3107.2E6	37.009	35.311
3) tc alpha-BHC	10.26	10.09	504.5E6	1604.4E6	16.800	17.351
4) tcm gamma-BHC (L	10.79	10.65	494.0E6	1550.0E6	17.972	18.866
5) tcm Heptachlor	11.53	11.31	407.4E6	1322.0E6	15.140	16.553
6) tcm Aldrin	11.99	11.77	385.4E6	1049.0E6	15.657	13.997
7) tc beta-BHC	10.96	10.82	250.3E6	633.9E6	21.682	17.770
8) tc delta-BHC	11.23	11.25	476.7E6	1220.3E6	17.235	14.686
9) tc Heptachlor E	12.89	12.60	386.2E6	1231.1E6	16.760	18.322
10) tc alpha-Endosu	13.47	13.15	358.9E6	1049.6E6	17.420	17.615
11) tc gamma-Chlord	13.08	12.87	379.3E6	1097.1E6	16.642	15.735
12) tc alpha-Chlord	13.27	13.07	355.1E6	1010.3E6	15.889	15.213
13) tc 4,4'-DDE	13.38	13.33	332.1E6	1040.6E6	14.772	15.965
14) tcm Dieldrin	13.82	13.53	401.9E6	1222.2E6	17.259	18.730
15) tcm Endrin	14.16	13.96	365.5E6	1021.7E6	17.521	18.013
16) tc KEPONE	14.25	0.00	300.8E6	0	48.067	N.D. #
17) tc beta-Endosul	14.49	14.26	303.4E6	1033.2E6	15.436	18.837
18) tc 4,4'-DDD	14.25	14.13	300.8E6	846.4E6	15.993	16.395
19) tcm 4,4'-DDT	14.65	14.57	318.8E6	927.2E6	15.915	16.920
20) tc Endrin Aldeh	15.12	14.74	182.9E6	597.2E6	12.378	14.844
21) tc Endosulfan S	15.76	15.15	284.4E6	800.9E6	15.678	16.136
22) tc Methoxychlor	15.34	15.55	908.8E6	2286.8E6	92.082	94.828
23) tc FAMPHUR	0.00	15.32	0	24869459	N.D.	0.782 #
24) tc Endrin Keton	16.16	15.91	340.1E6	878.3E6	16.287	16.223
26) L8C Toxaphene	0.00	14.42	0	30888909	N.D.	18.853 #
29) L8C Toxaphene{4}	16.16	16.08	340.1E6	18183221	382.623	11.179 #
30) L8C Toxaphene{5}	16.34	0.00	17625170	0	26.105	N.D. #

over

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:05 pm
 Operator : M.PEDRO
 Sample : 1113456 1.0
 Misc : 06/27/08 200 ensr 8081 lcs
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:30 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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

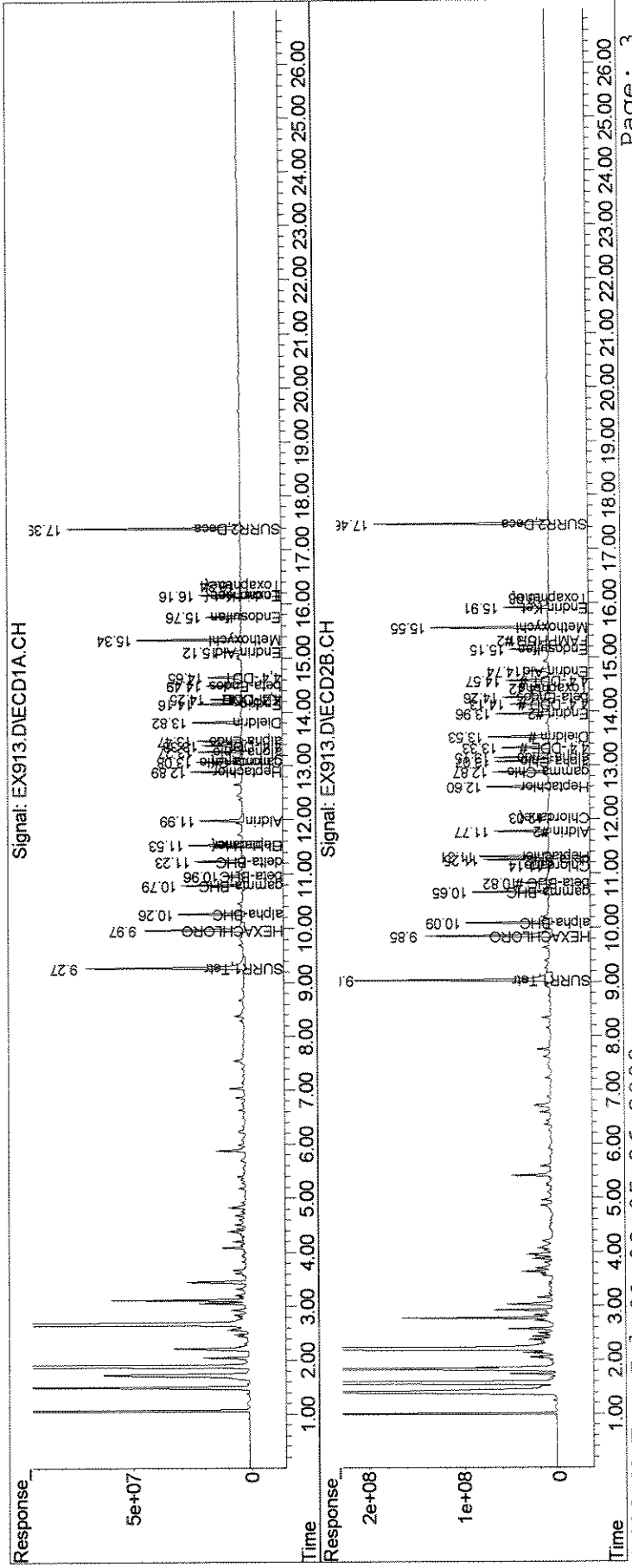
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum Toxaphene			357.7E6	49072130	408.728	30.031
Average Toxaphene					204.364	15.016
31) L9C Chlordane	0.00	11.14	0	123.1E6	N.D.	48.889 #
32) L9C Chlordane {2}	11.53	0.00	407.4E6	0	374.584	N.D. #
33) L9C Chlordane {3}	0.00	12.03	0	98056320	N.D.	35.319 #
34) L9C Chlordane {4}	13.08	0.00	379.3E6	0	138.585	N.D. #
Sum Chlordane			786.7E6	221.2E6	513.169	84.208
Average Chlordane					256.584	42.104

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:05 pm
 Operator : M.PEDRO
 Sample : 1113456 1.0
 Misc : 06/27/08 200 ensr 8081 lcs
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:30 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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



01072

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8081A.NEVA
 Reported: 07/30/08

Project Reference:
 Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : Order #: 1113457 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 163158

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.081	UG/L
ALPHA-BHC	0.050	0.097	UG/L
BETA-BHC	0.050	0.091	UG/L
GAMMA-BHC	0.050	0.098	UG/L
DELTA-BHC	0.050	0.094	UG/L
ALPHA-CHLORDANE	0.050	0.095	UG/L
GAMMA-CHLORDANE	0.050	0.10	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.093	UG/L
4,4'-DDT	0.050	0.11	UG/L
DIELDRIN	0.10	0.11	UG/L
ALPHA-ENDOSULFAN	0.050	0.10	UG/L
BETA-ENDOSULFAN	0.10	0.11	UG/L
ENDOSULFAN SULFATE	0.10	0.10	UG/L
ENDRIN	0.050	0.11	UG/L
ENDRIN ALDEHYDE	0.10	0.10	UG/L
ENDRIN KETONE	0.10	0.10	UG/L
HEPTACHLOR	0.050	0.095	UG/L
HEPTACHLOR EPOXIDE	0.050	0.10	UG/L
HEXACHLOROBENZENE	0.050	0.21	UG/L
METHOXYCHLOR	0.50	0.60	UG/L
4,4'-TDE (DDD)	0.050	0.10	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	93	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	97	%

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex914.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:40 pm
 Operator : M.PEDRO
 Sample : 1113457 1.0
 Misc : 06/27/08 200 ensr 8081 lcsd
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:43:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1826.1E6	5538.2E6	96.961	90.767
Spiked Amount	100.000	Range 30 - 150	Recovery =		96.96%	90.77%
25) S SURR2,Decachloro	17.39	17.46	1583.1E6	3863.2E6	92.688	88.503
Spiked Amount	100.000	Range 30 - 150	Recovery =		92.69%	88.50%
Target Compounds						
2) TC HEXACHLORO BENZEN	9.97	9.85	1138.0E6	3570.1E6	41.892m	40.572m
3) tc alpha-BHC	10.26	10.09	582.1E6	1700.5E6	19.382m	18.390m
4) tcm gamma-BHC (L	10.79	10.65	535.6E6	1616.9E6	19.483m	19.681m
5) tcm Heptachlor	11.53	11.31	483.7E6	1515.6E6	17.977m	18.977m
6) tcm Aldrin	11.99	11.77	397.3E6	1191.1E6	16.143m	15.893m
7) tc beta-BHC	10.96	10.82	209.8E6	630.9E6	18.172m	17.687m
8) tc delta-BHC	11.23	11.25	520.3E6	1407.1E6	18.814m	16.934m
9) tc Heptachlor E	12.89	12.60	449.3E6	1348.1E6	19.501m	20.063m
10) tc alpha-Endosu	13.47	13.15	430.8E6	1194.2E6	20.908m	20.042m
11) tc gamma-Chlord	13.08	12.87	455.0E6	1244.3E6	19.966m	17.846m
12) tc alpha-Chlord	13.27	13.07	424.8E6	1177.0E6	19.008m	17.722m
13) tc 4,4'-DDE	13.38	13.33	410.9E6	1213.4E6	18.276m	18.617m
14) tcm Dieldrin	13.81	13.53	492.3E6	1428.5E6	21.143m	21.892m
15) tcm Endrin	14.16	13.96	451.8E6	1221.4E6	21.661m	21.533m
17) tc beta-Endosul	14.49	14.26	403.7E6	1193.4E6	20.534	21.759
18) tc 4,4'-DDD	14.24	14.13	374.5E6	1013.4E6	19.912m	19.628m
19) tcm 4,4'-DDT	14.65	14.57	438.6E6	1231.5E6	21.894	22.472
20) tc Endrin Aldeh	15.12	14.75	216.5E6	806.6E6	14.652	20.049 #
21) tc Endosulfan S	15.76	15.15	361.3E6	1003.6E6	19.918	20.220
22) tc Methoxychlor	15.34	15.55	1145.4E6	2877.9E6	116.055	119.338
24) tc Endrin Keton	16.16	15.91	433.1E6	1126.1E6	20.742	20.801
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

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex914.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:40 pm
 Operator : M.PEDRO
 Sample : 1113457 1.0
 Misc : 06/27/08 200 ensr 8081 lcsd
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:43:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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

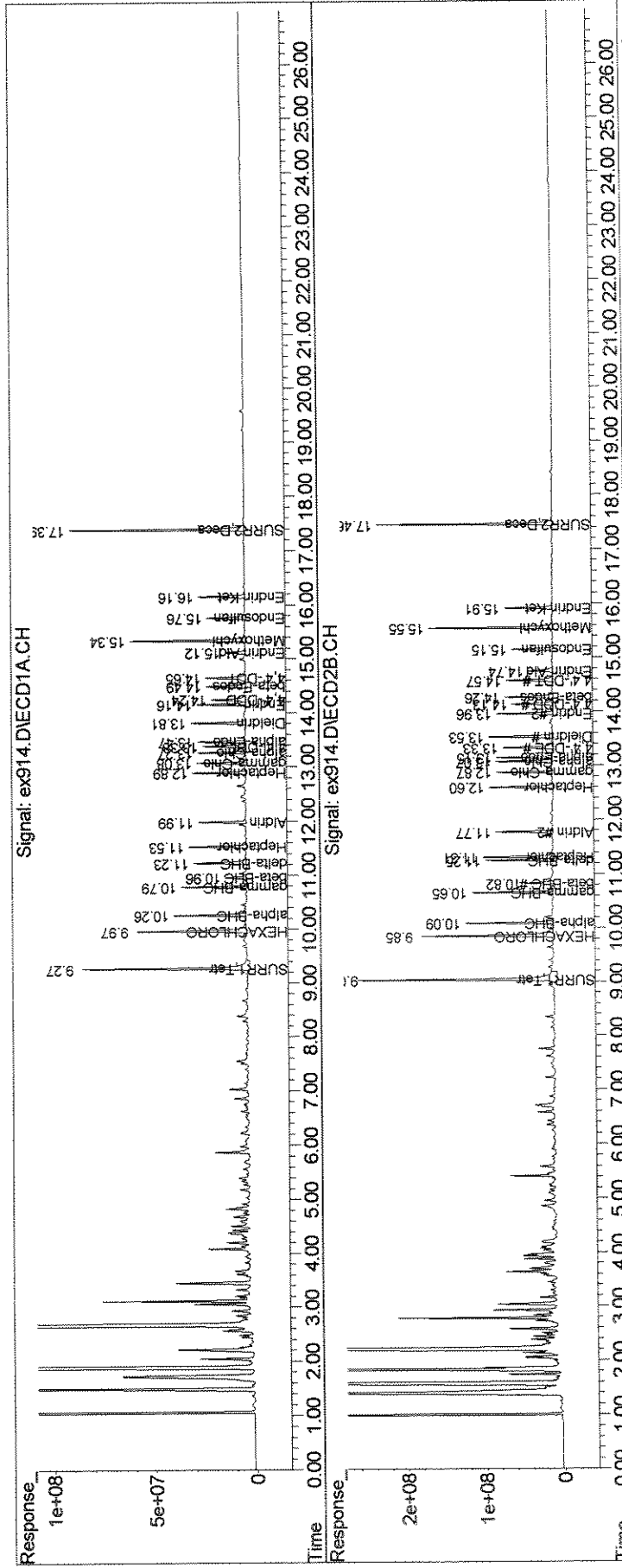
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : ex914.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:40 pm
 Operator : M.PEDRO
 Sample : 1113457 1.0
 Misc : 06/27/08 200 ensr 8081 lcsd
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 09:43:54 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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



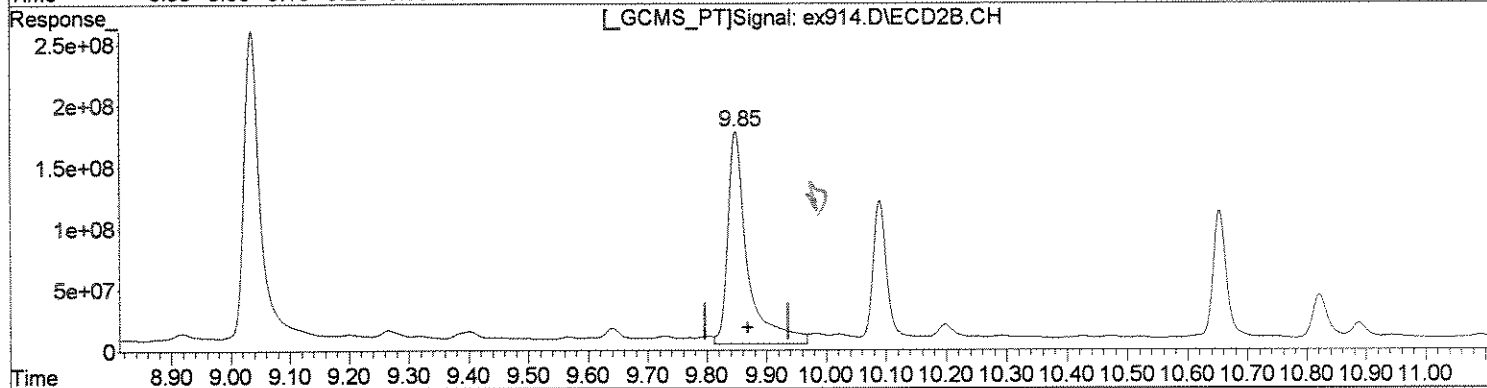
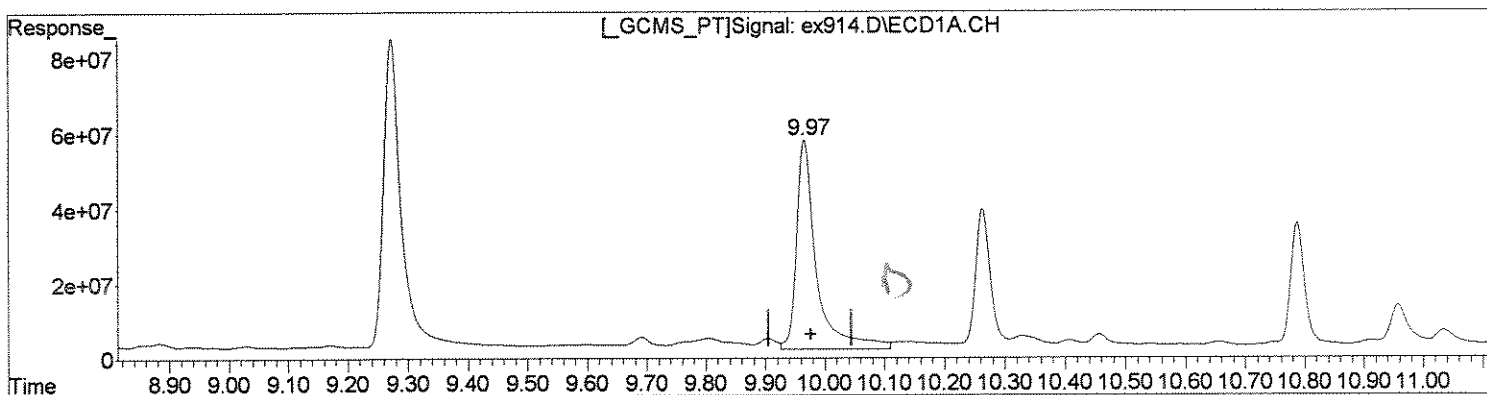
01076

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(2) HEXACHLOROBENZENE (TC)

9.97min 47.819ug/l
response 1299009491

(2) HEXACHLOROBENZENE #2 (TC)

9.85min 45.172ug/l
response 3974909709

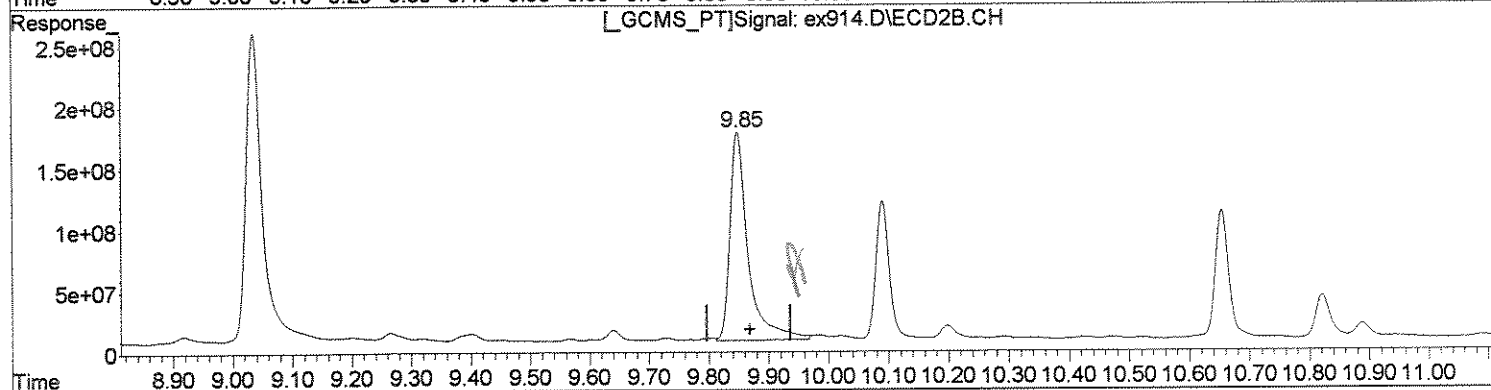
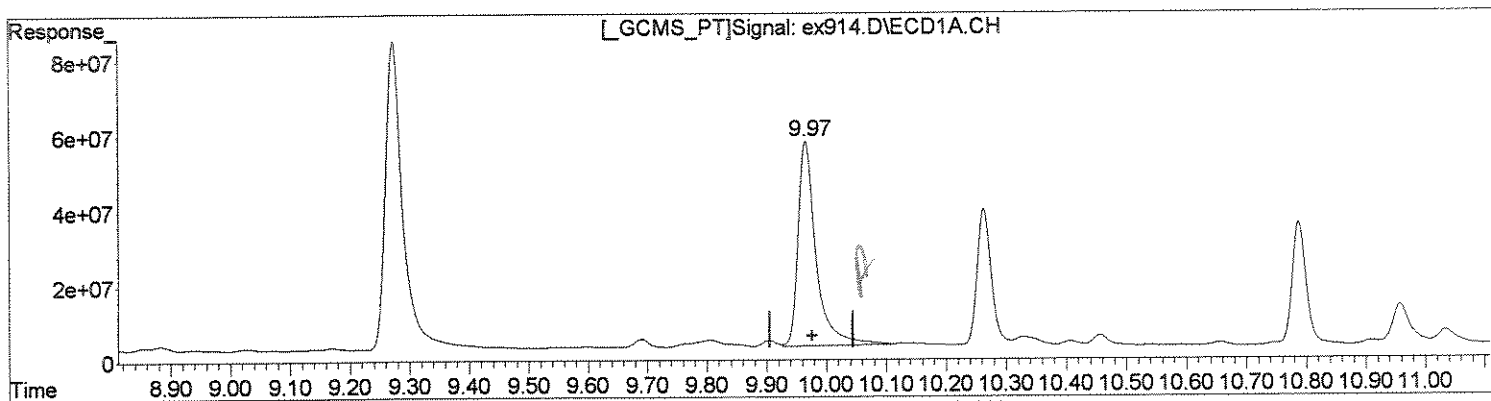
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(2) HEXACHLOROBENZENE (TC)
9.97min 41.892ug/l m
response 1138000414

(2) HEXACHLOROBENZENE #2 (TC)
9.85min 40.572ug/l m
response 3570132447

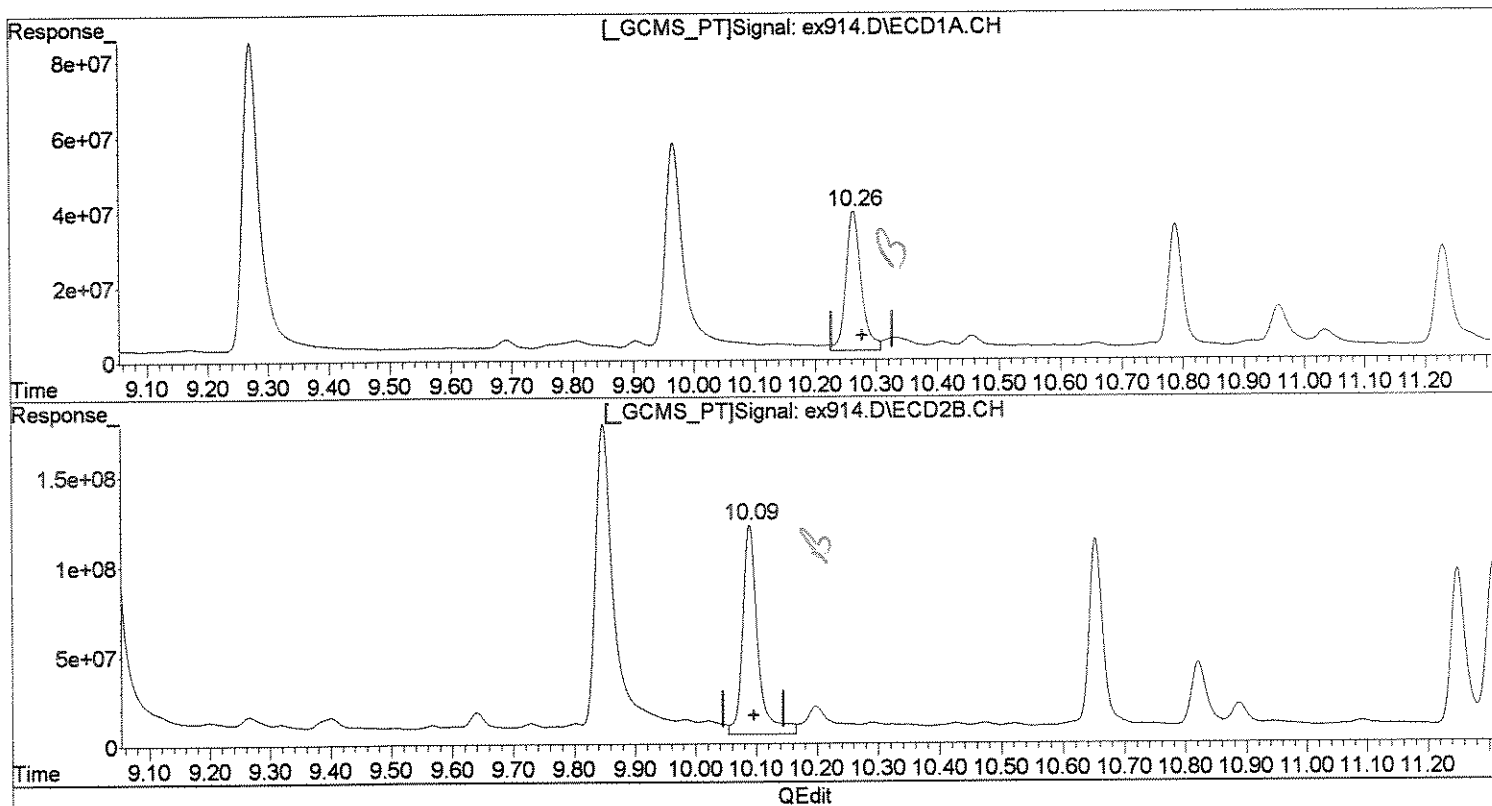
Handwritten notes:
1000
7/1
MW: 714

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(3) alpha-BHC (tc)
10.26min 21.943ug/l
response 658980146

(3) alpha-BHC #2 (tc)
10.09min 22.127ug/l
response 2046030901

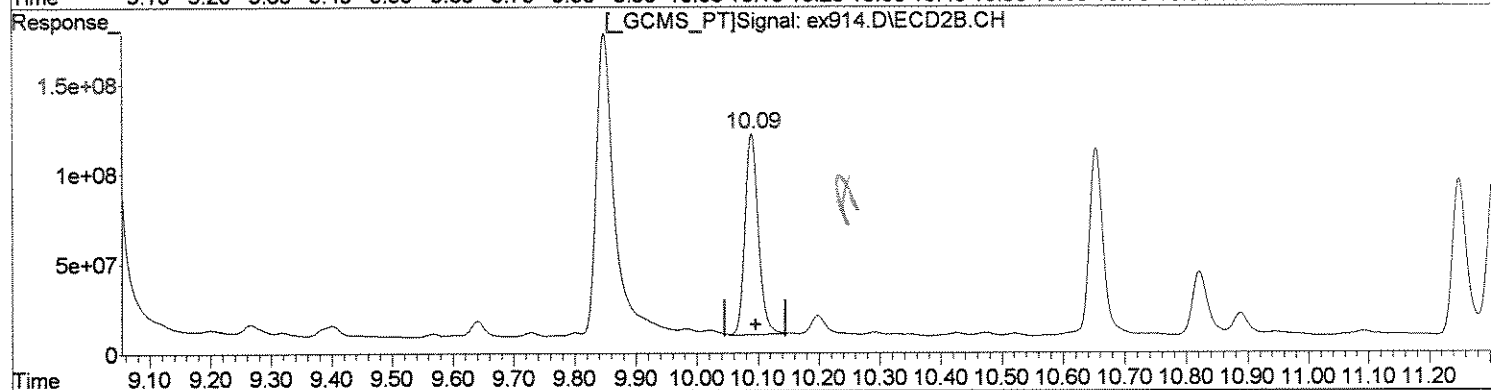
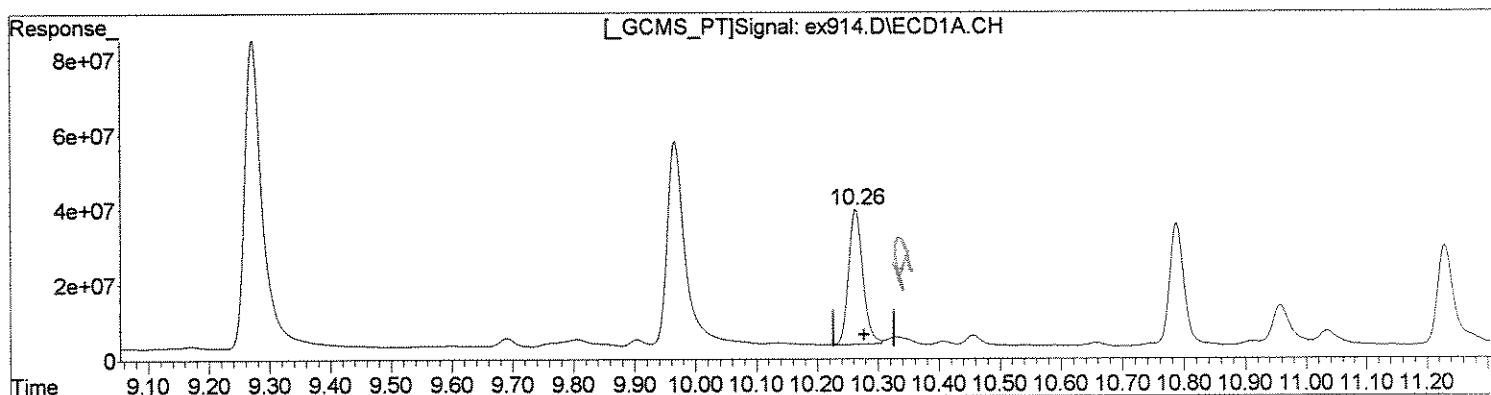
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Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(3) alpha-BHC (tc)
10.26min 19.382ug/l m
response 582058337

(3) alpha-BHC #2 (tc)
10.09min 18.390ug/l m
response 1700495194

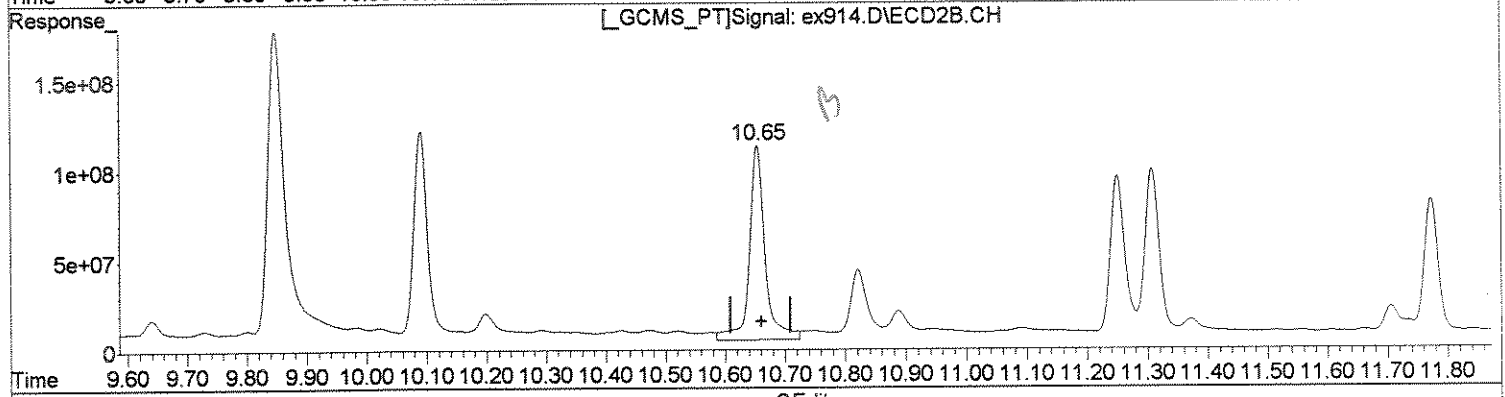
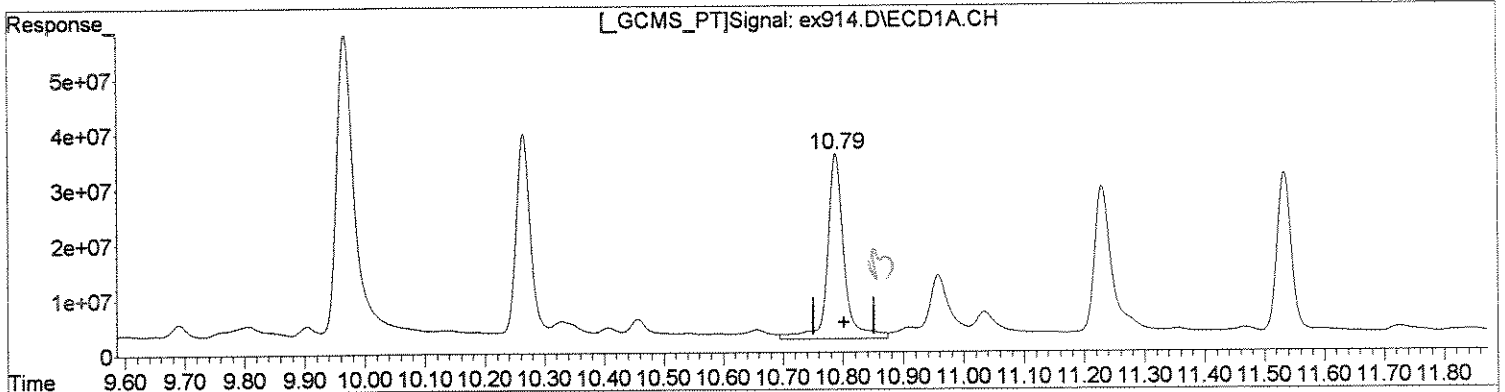
MW
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(4) gamma-BHC (L (tcm))
10.79min 23.390ug/l
response 642964952

(4) gamma-BHC (L #2 (tcm))
10.65min 24.096ug/l
response 1979692880

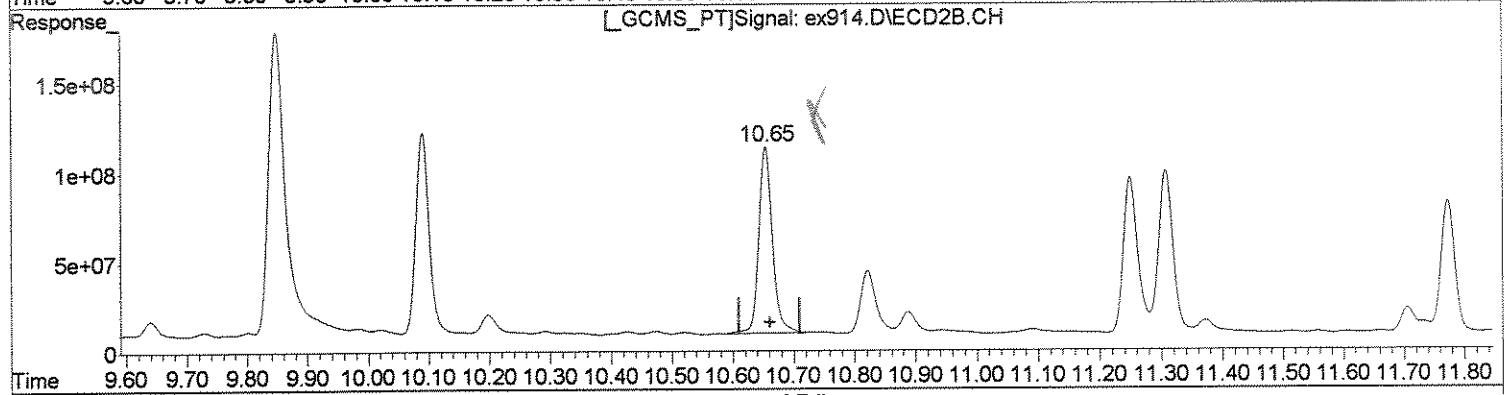
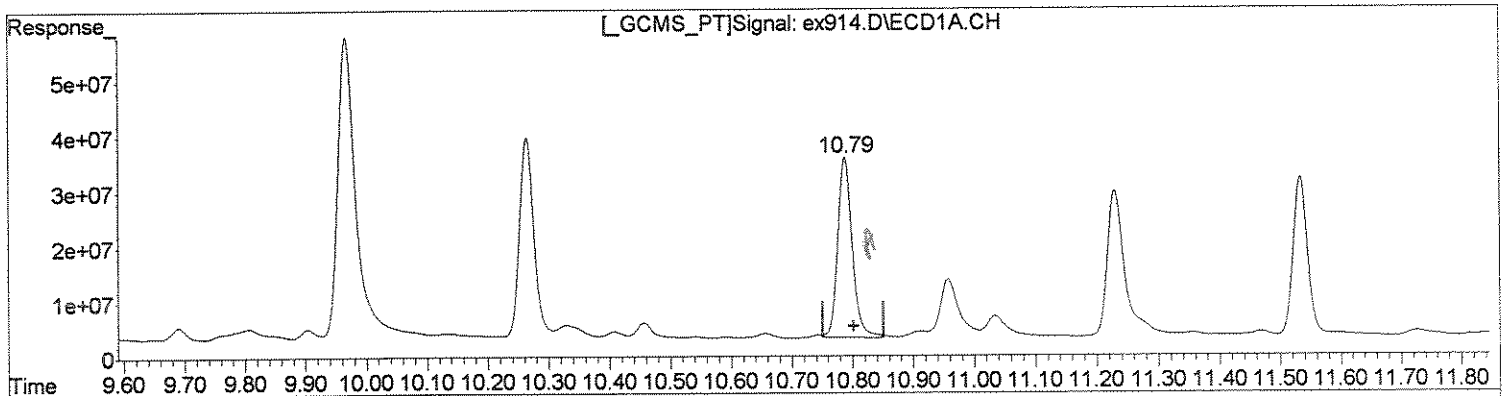
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 09:43:54 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
10.79min 19.483ug/l m
response 535561543

(4) gamma-BHC (L #2 (tcm)
10.65min 19.681ug/l m
response 1616922939

MW/ 7/1

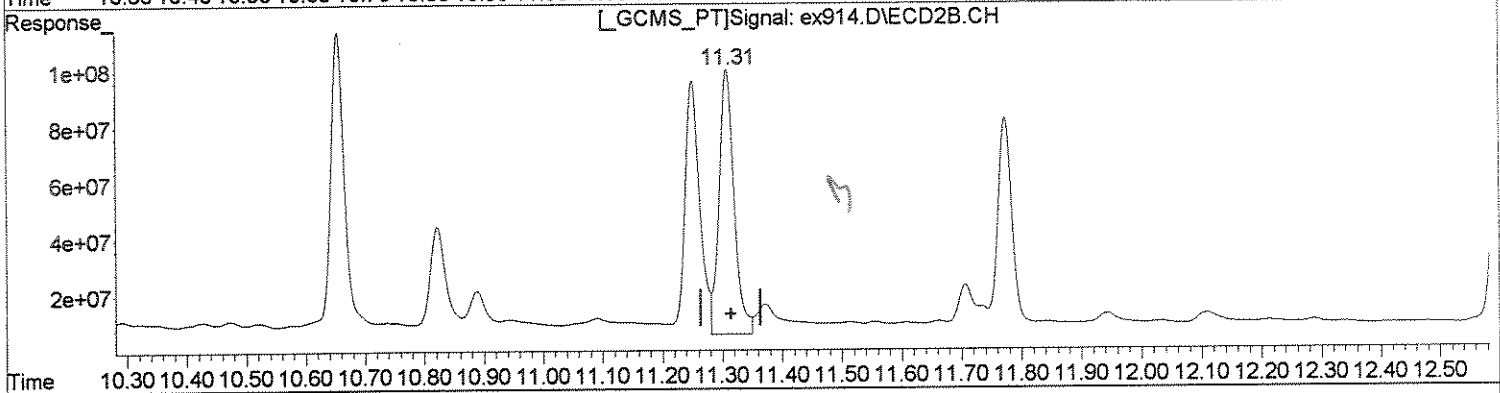
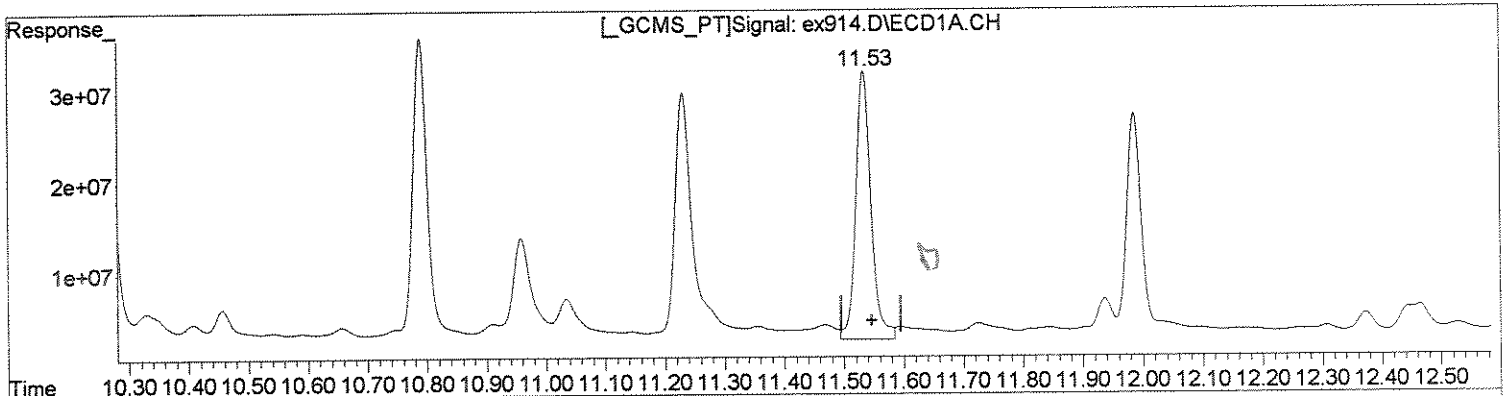
MW/ 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(5) Heptachlor (tcm)
11.53min 19.441ug/l
response 523124285

(5) Heptachlor #2 (tcm)
11.31min 20.706ug/l
response 1653695284

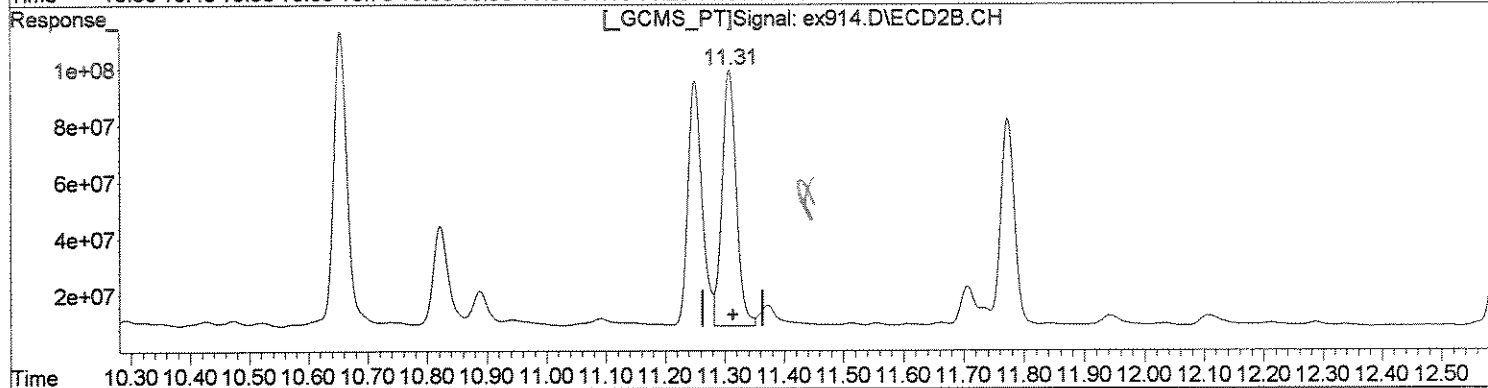
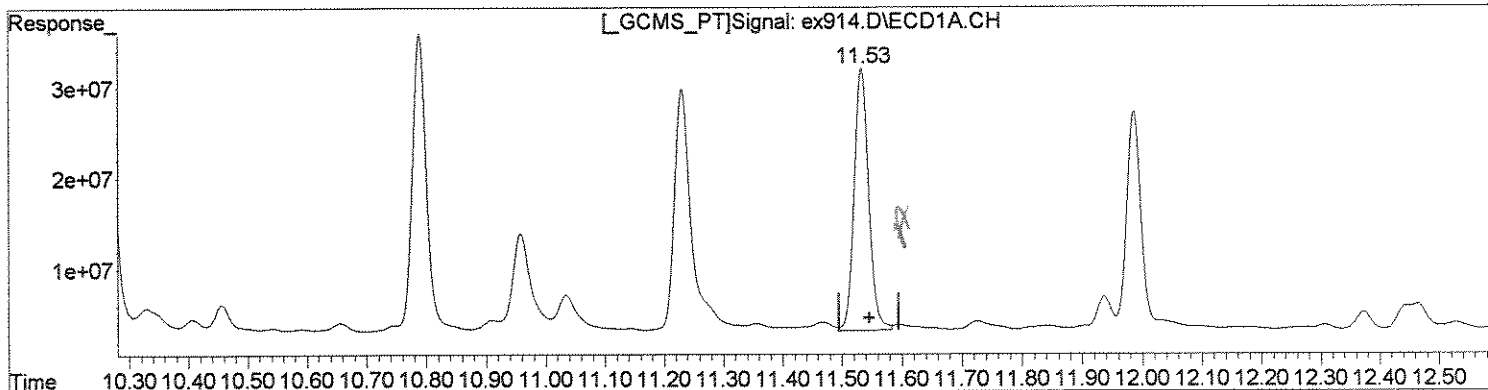
MW

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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

(5) Heptachlor (tcm)
11.53min 17.977ug/l m
response 483724847

(5) Heptachlor #2 (tcm)
11.31min 18.977ug/l m
response 1515615484

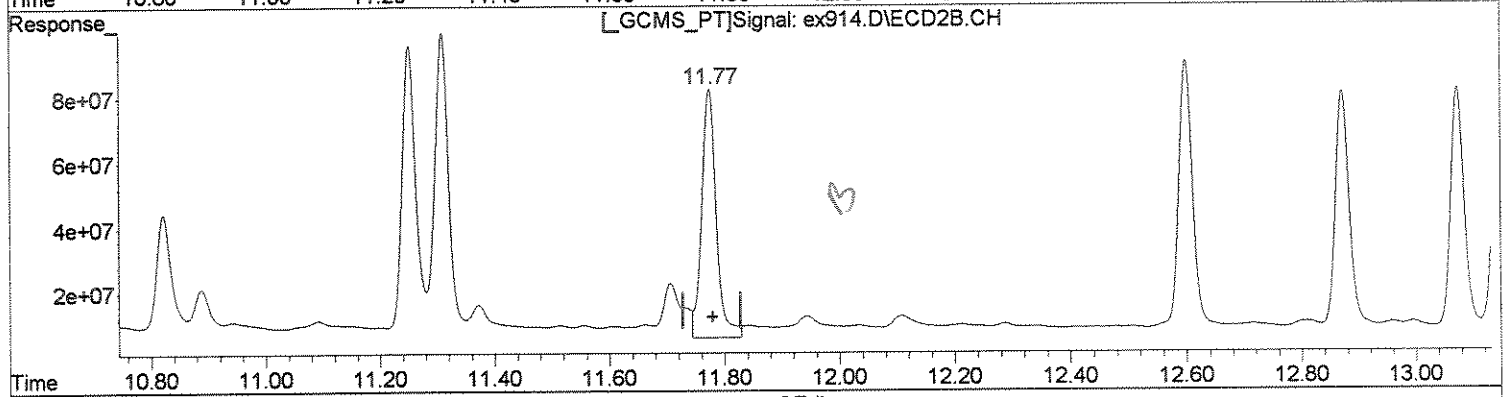
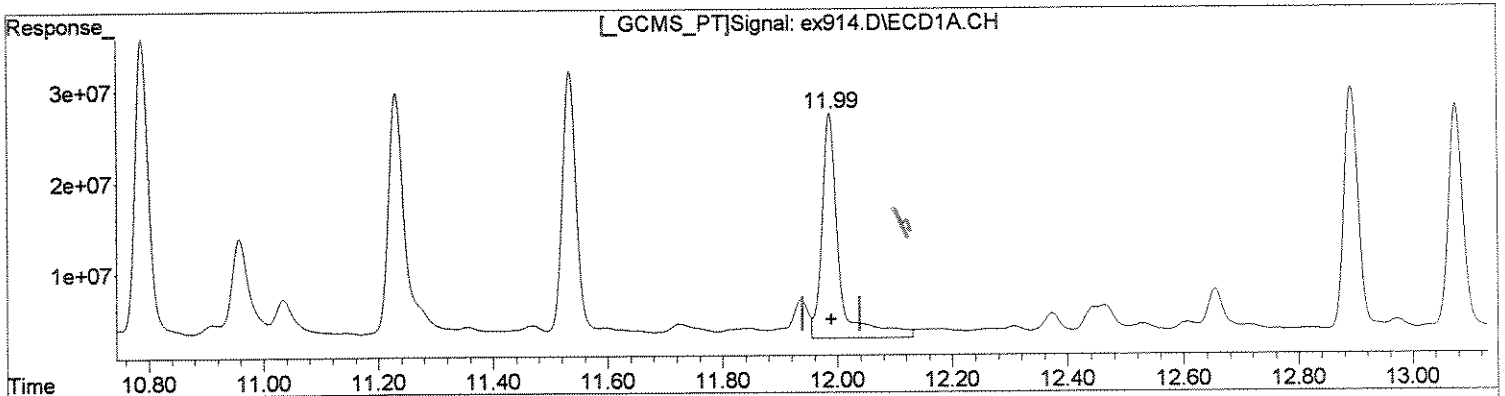
Handwritten notes:
11.53
11.31

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(6) Aldrin (tcm)
11.99min 20.572ug/l
response 506341283

Handwritten signature

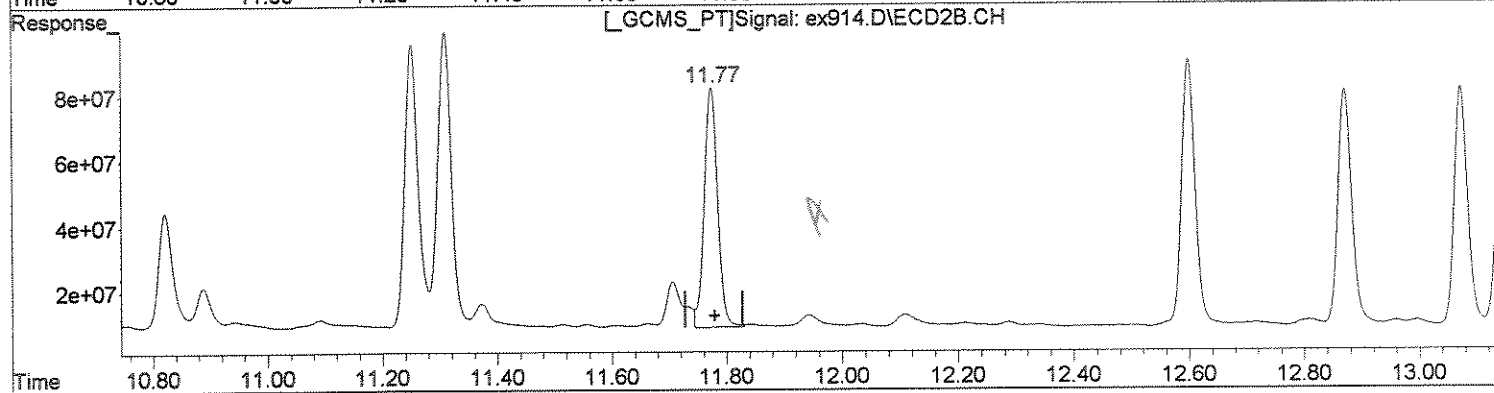
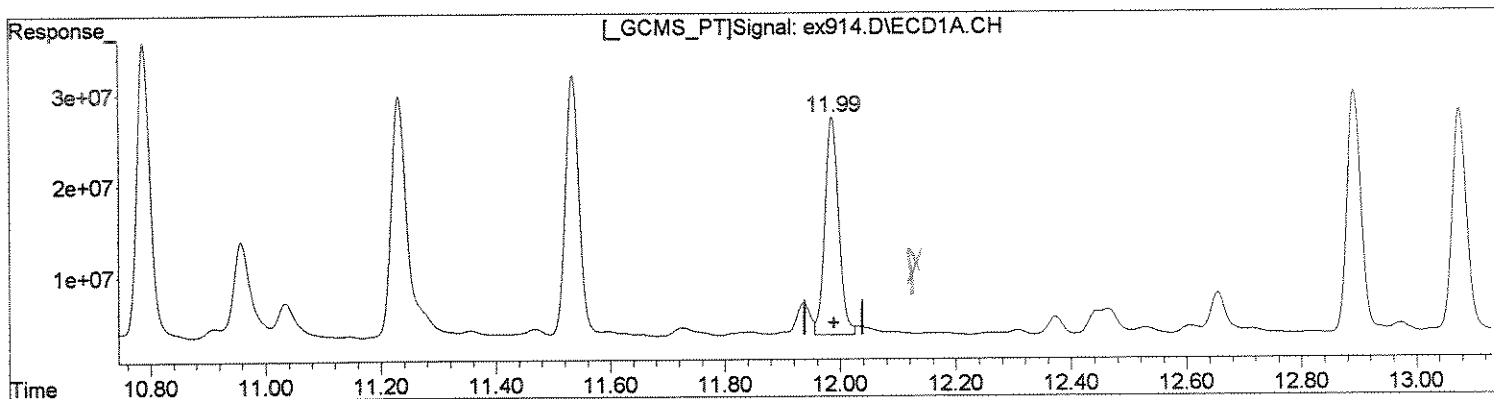
(6) Aldrin #2 (tcm)
11.77min 17.859ug/l
response 1338477806

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(6) Aldrin (tcm)
11.99min 16.143ug/l m
response 397329235

(6) Aldrin #2 (tcm)
11.77min 15.893ug/l m
response 1191097666

MMA
7/1

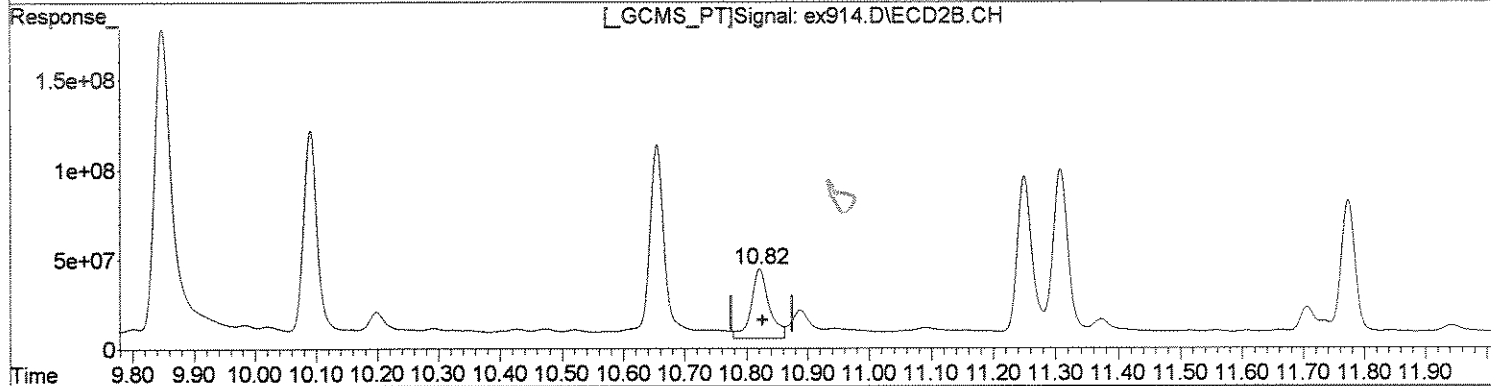
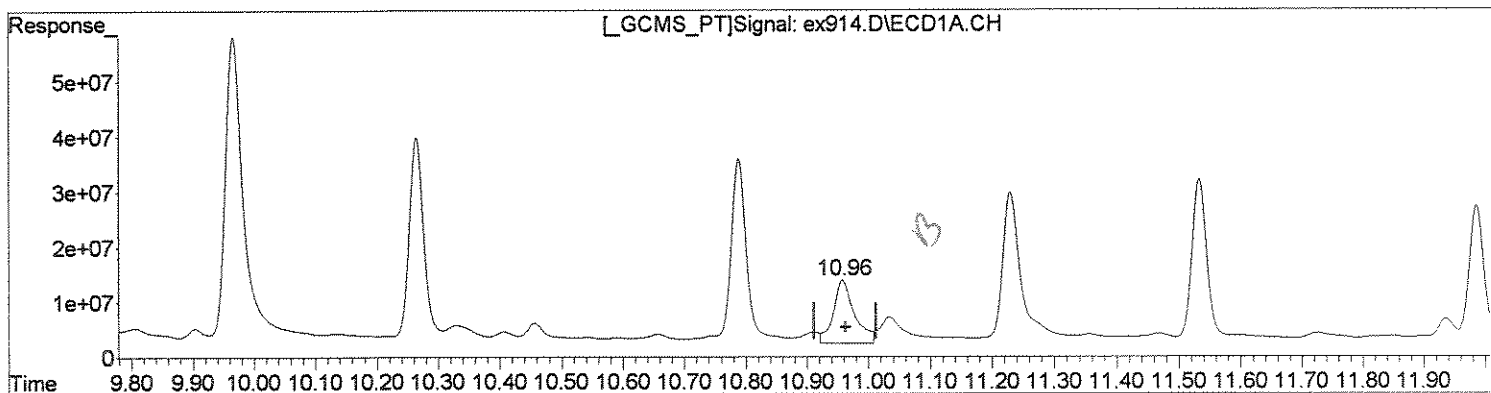
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(7) beta-BHC (tc)
10.96min 23.879ug/l
response 275700069

(7) beta-BHC #2 (tc)
10.82min 22.590ug/l
response 805863634

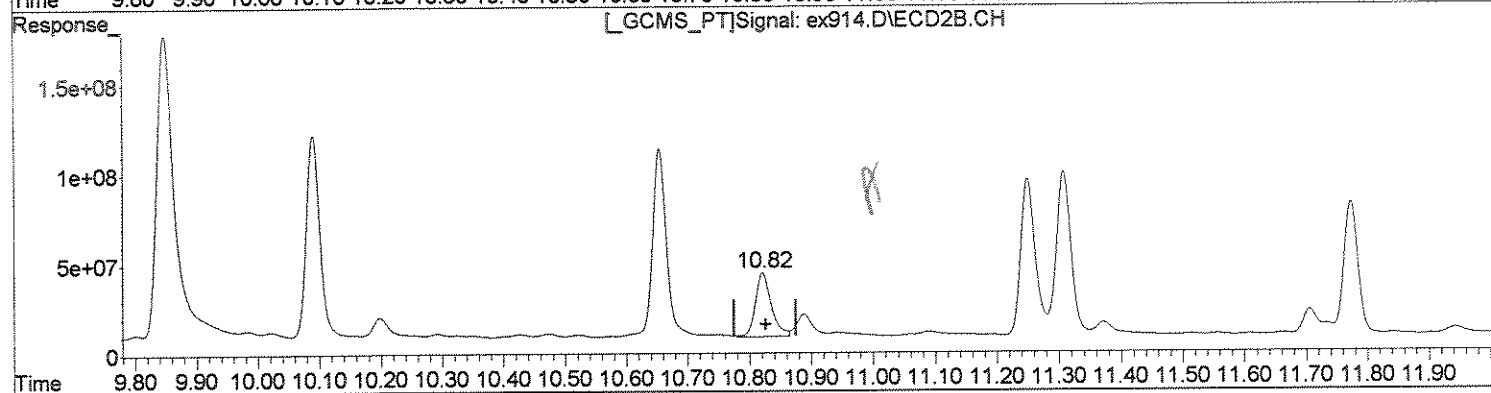
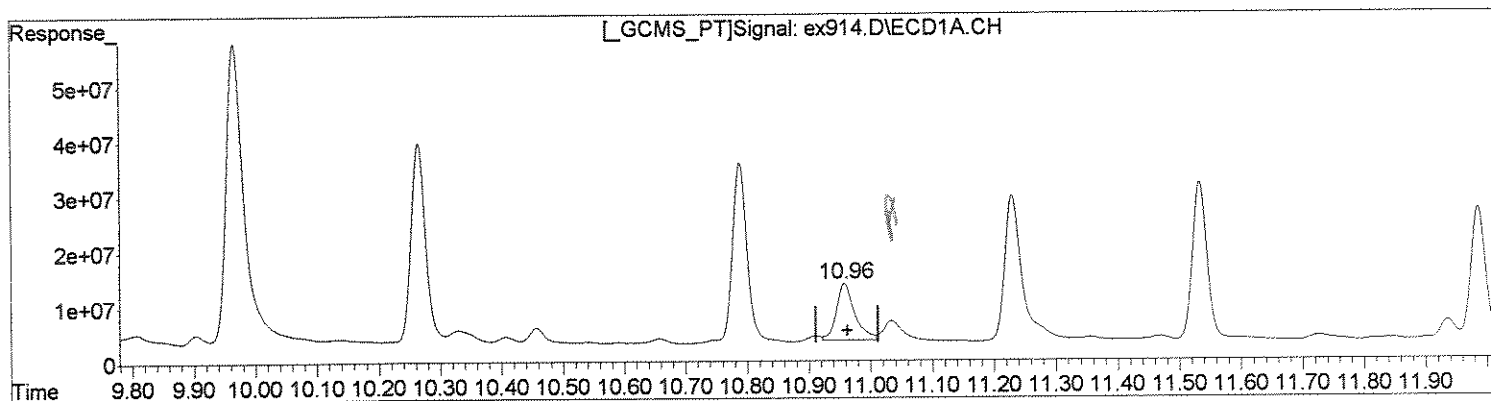
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(7) beta-BHC (tc)
10.96min 18.172ug/l m
response 209810025

(7) beta-BHC #2 (tc)
10.82min 17.687ug/l m
response 630945734

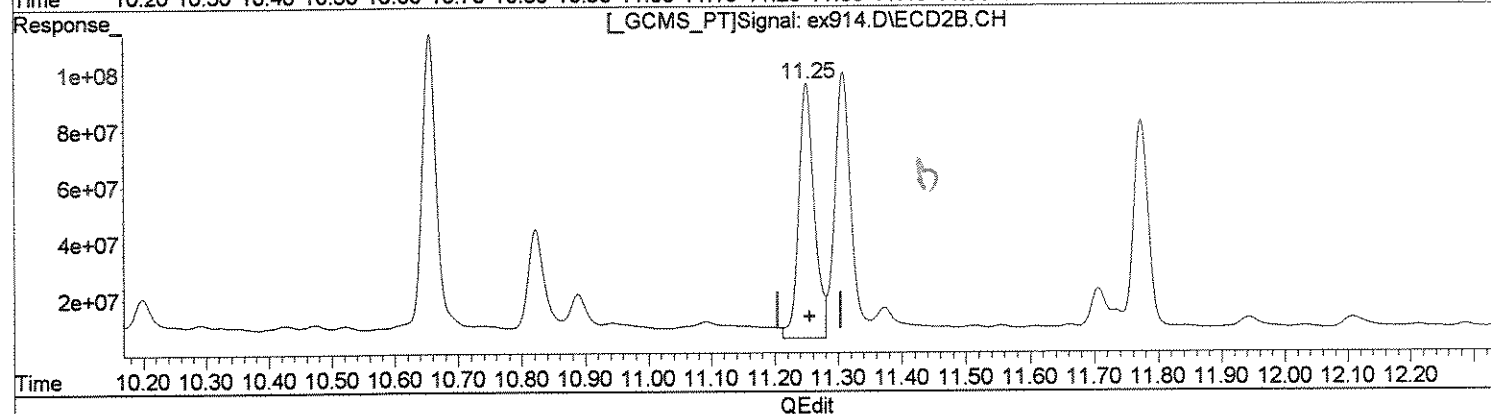
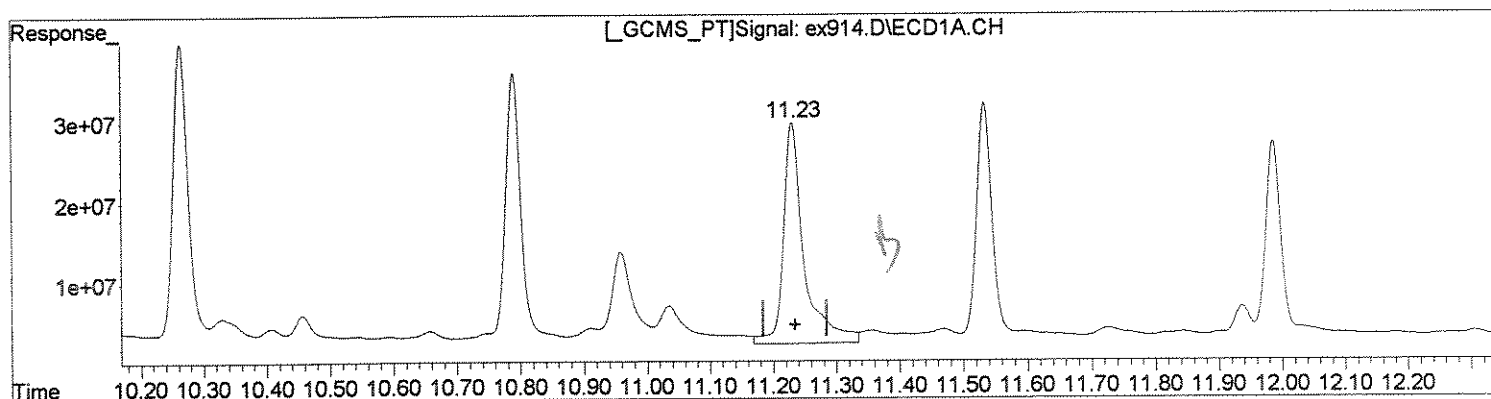
MW 7/1 *MW 7/1*

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(8) delta-BHC (tc)
11.23min 22.448ug/l
response 620832459

(8) delta-BHC #2 (tc)
11.25min 18.608ug/l
response 1546189794

Handwritten signature

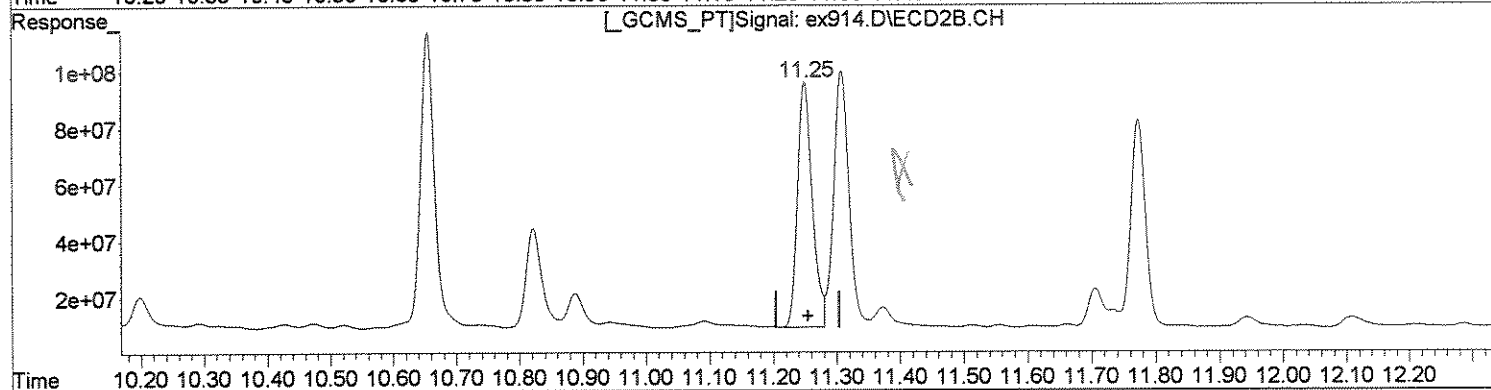
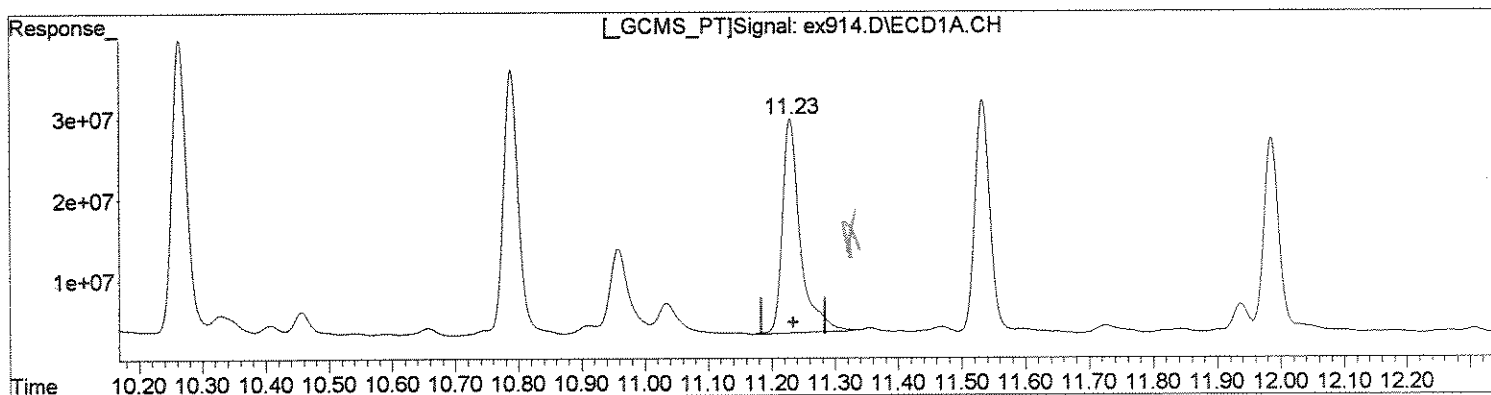
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(8) delta-BHC (tc)
11.23min 18.814ug/l m
response 520319976

(8) delta-BHC #2 (tc)
11.25min 16.934ug/l m
response 1407138814

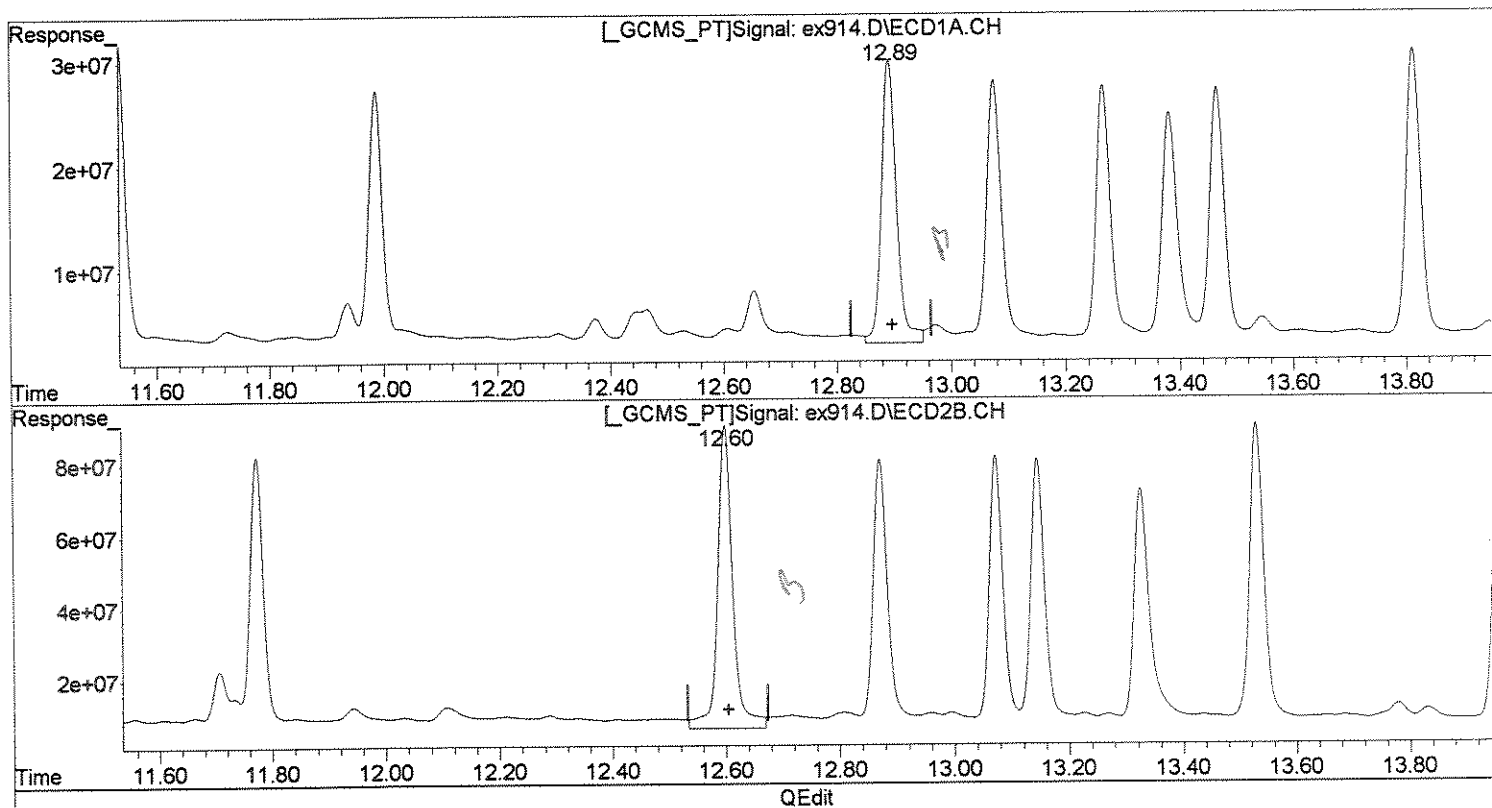
MSP
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
12.89min 21.584ug/l
response 497322785

(9) Heptachlor E #2 (tc)
12.60min 23.072ug/l
response 1550251143

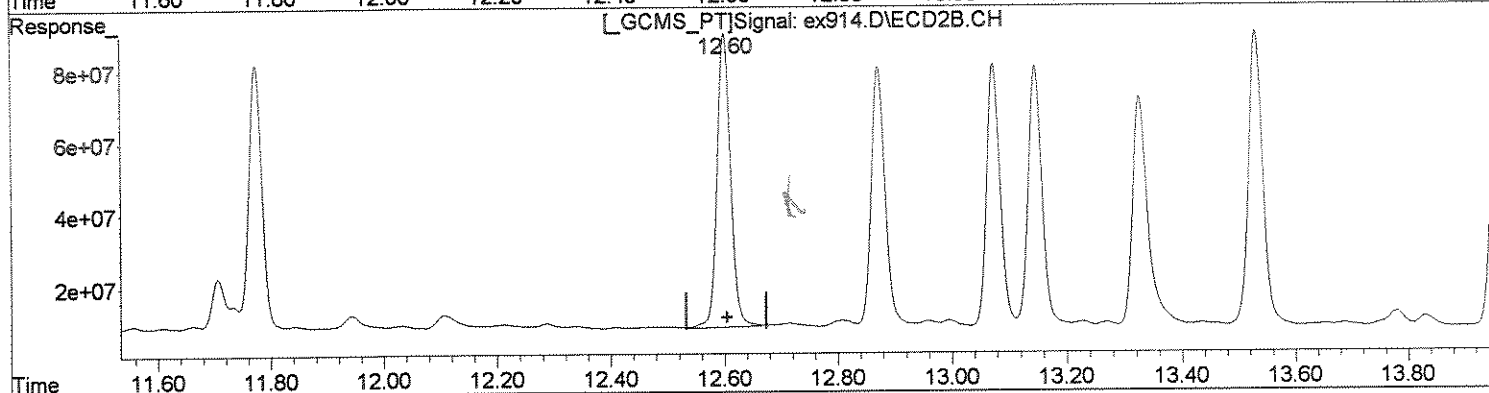
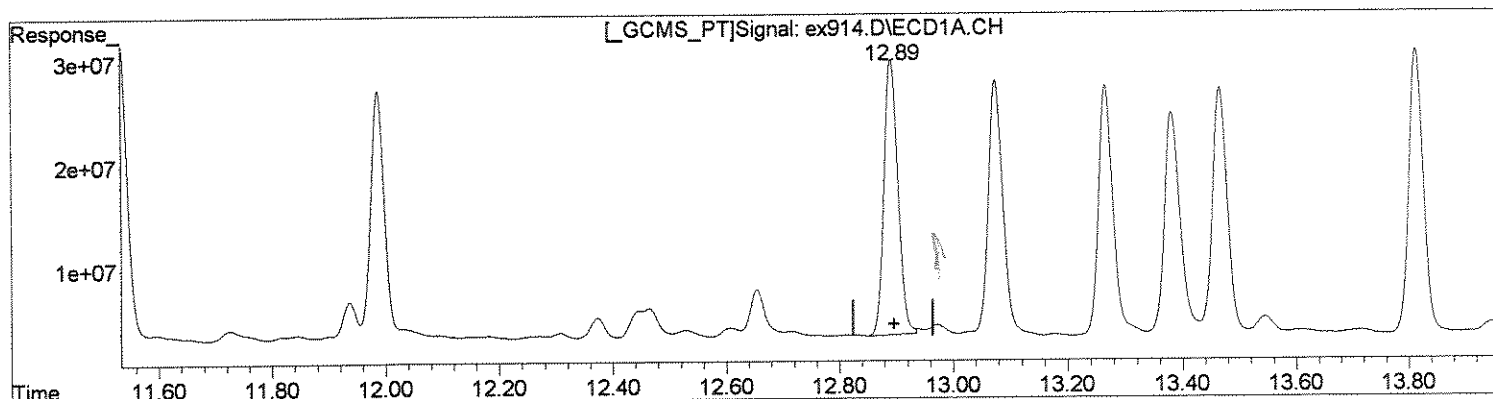
Bone

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
12.89min 19.501ug/l m
response 449325708

(9) Heptachlor E #2 (tc)
12.60min 20.063ug/l m
response 1348122038

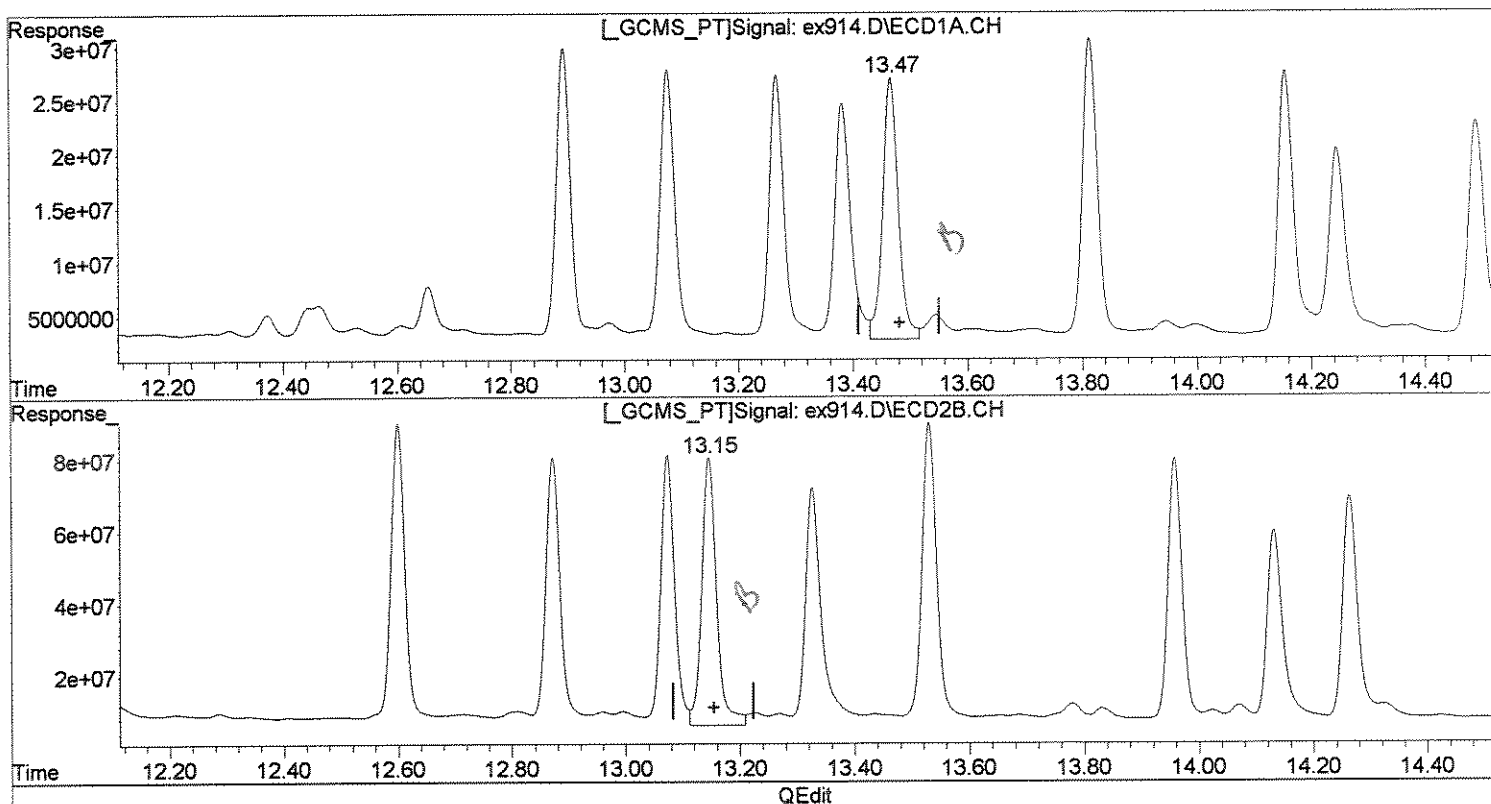
Handwritten notes:
7/1
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(10) alpha-Endosu (tc)
13.47min 22.318ug/l
response 459820349

(10) alpha-Endosu #2 (tc)
13.15min 22.292ug/l
response 1328304150

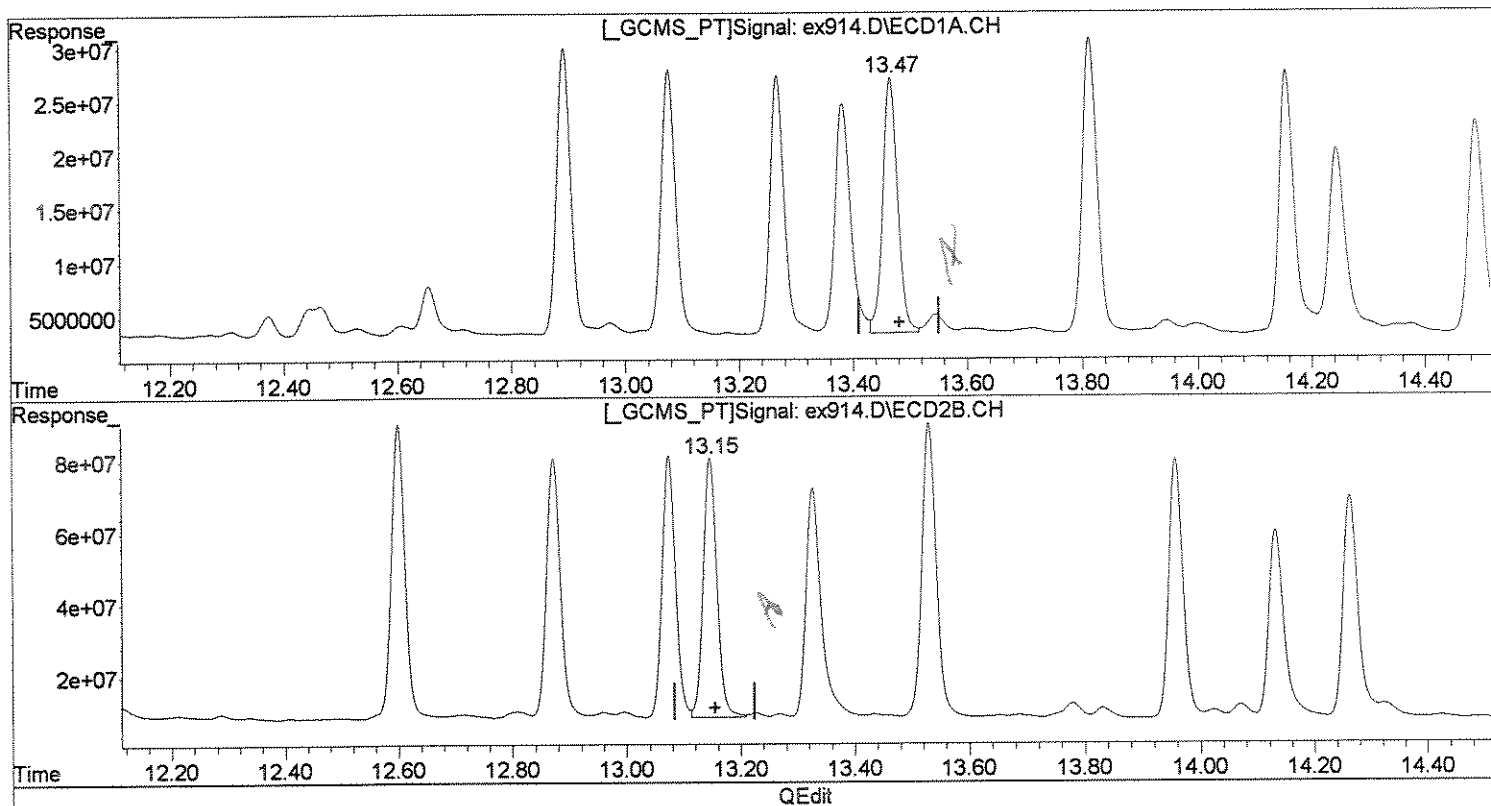
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(10) alpha-Endosu (tc)
13.47min 20.908ug/l m
response 430786362

(10) alpha-Endosu #2 (tc)
13.15min 20.042ug/l m
response 1194194258

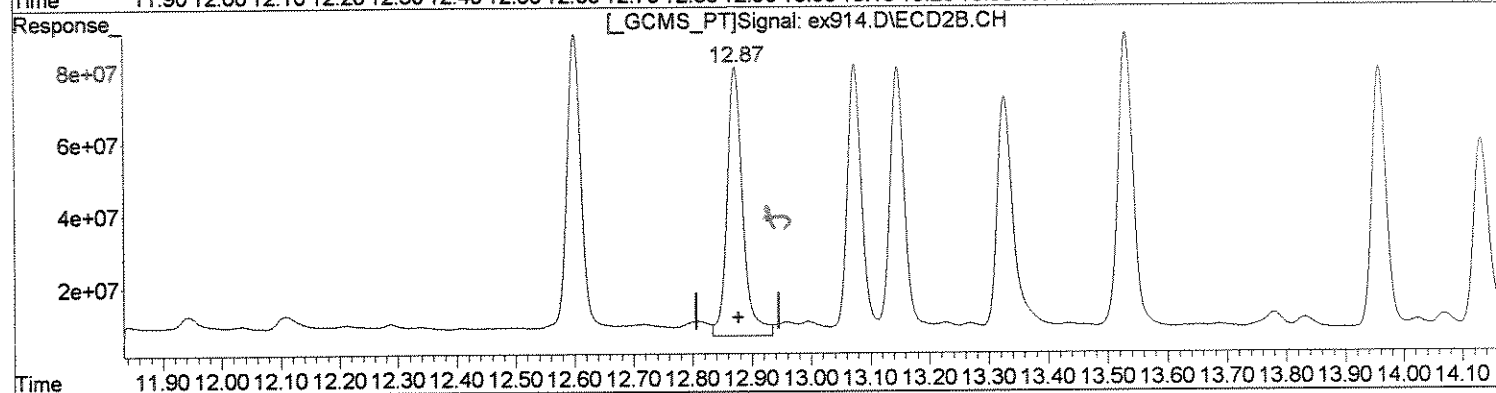
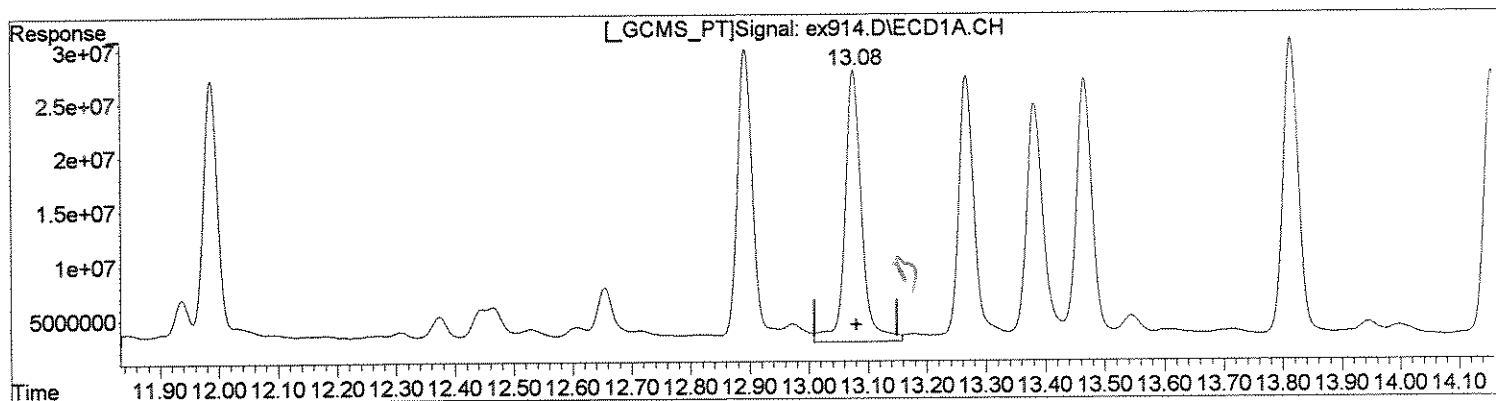
MJP
7/1
MJP
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(11) gamma-Chlord (tc)
13.08min 21.638ug/l
response 493157897

(11) gamma-Chlord #2 (tc)
12.87min 19.533ug/l
response 1361946222

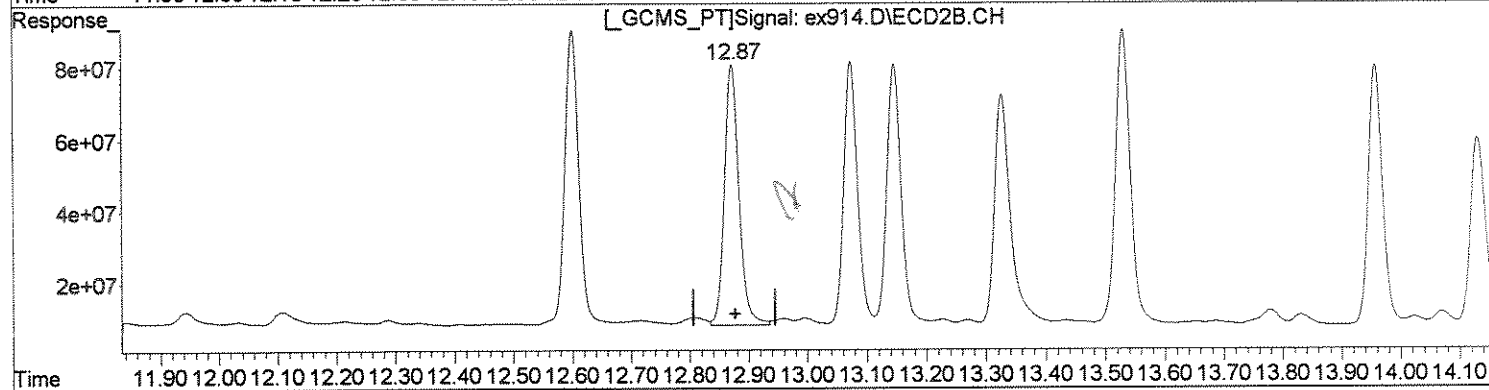
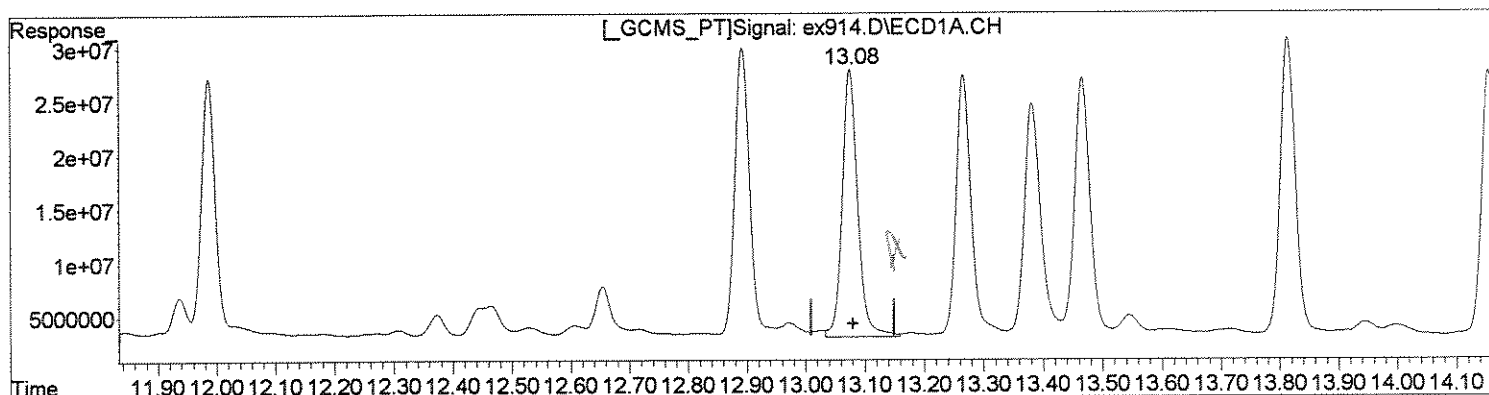
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(11) gamma-Chlord (tc)
13.08min 19.966ug/l m
response 455048551

(11) gamma-Chlord #2 (tc)
12.87min 17.846ug/l m
response 1244299579

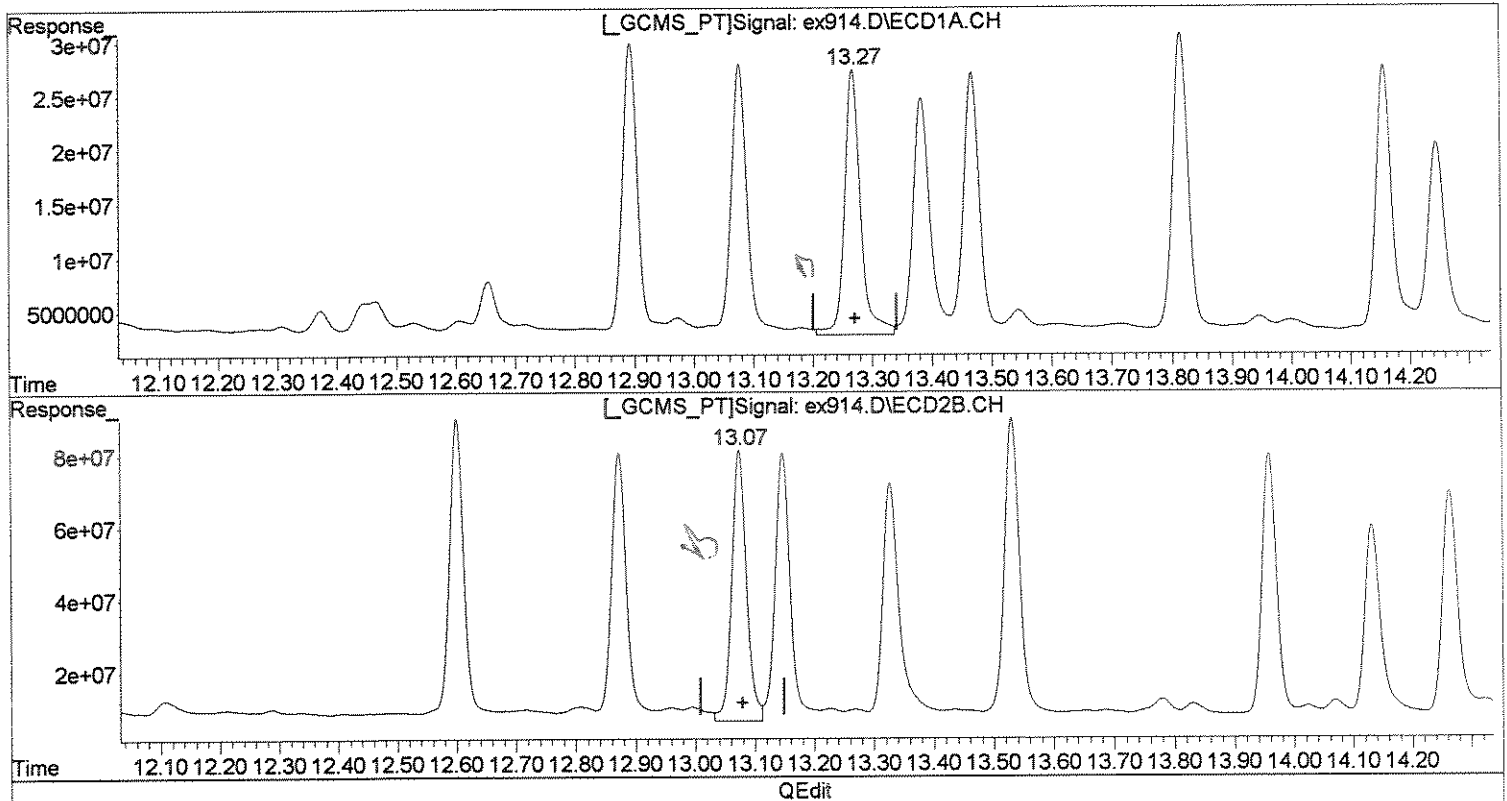
Handwritten notes:
mw 7/1
WAP 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(12) alpha-Chlord (tc)
13.27min 20.718ug/l
response 462972989

(12) alpha-Chlord #2 (tc)
13.07min 19.354ug/l
response 1285396186

Handwritten signature

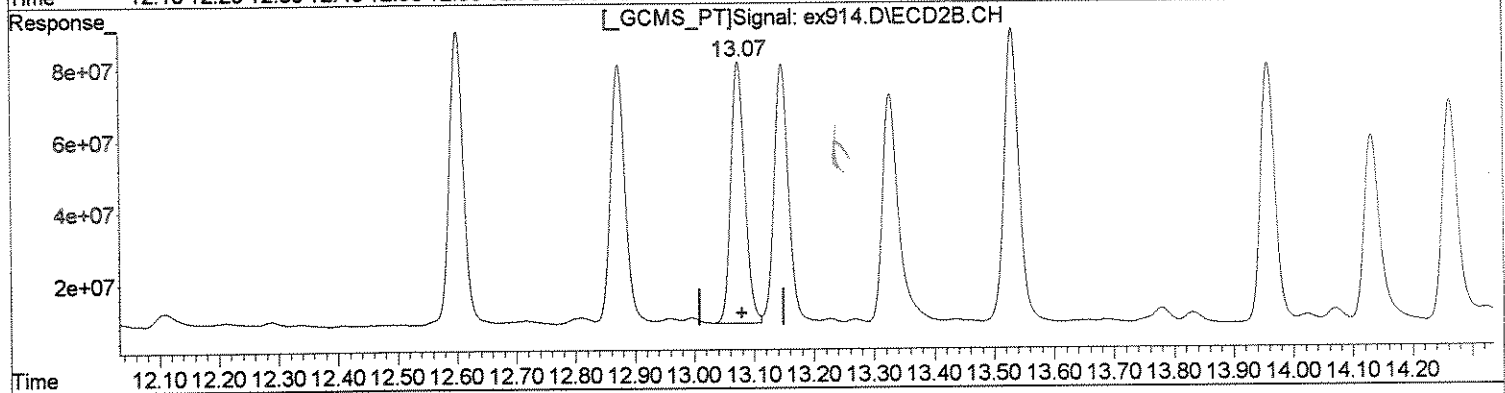
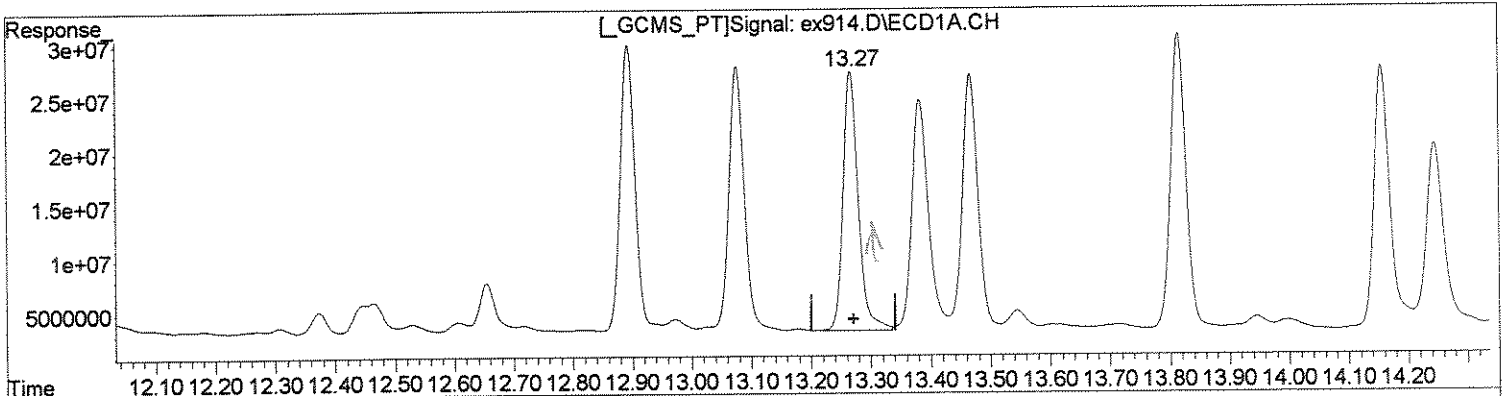
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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

(12) alpha-Chlord (tc)
13.27min 19.008ug/l m
response 424769585

(12) alpha-Chlord #2 (tc)
13.07min 17.722ug/l m
response 1177020738

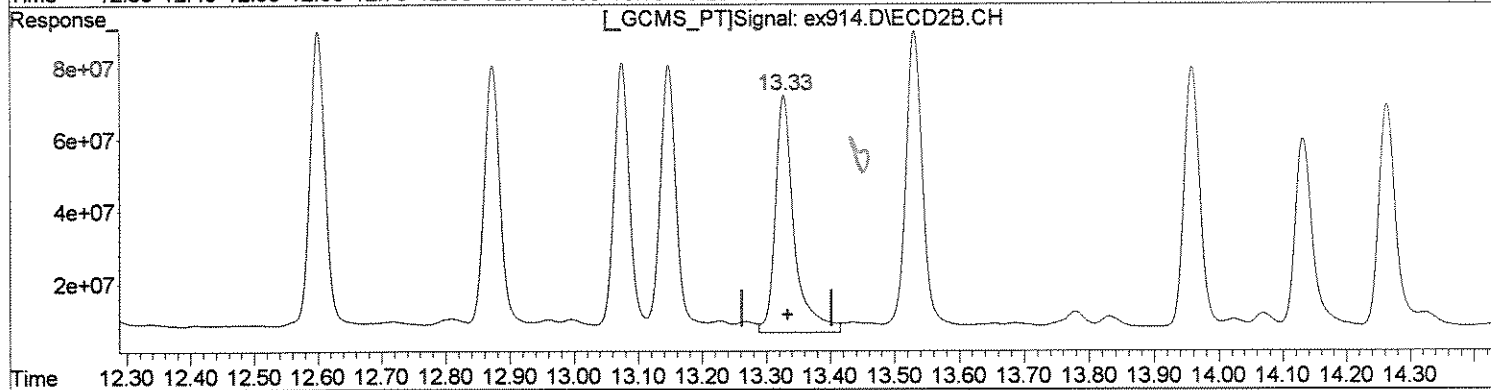
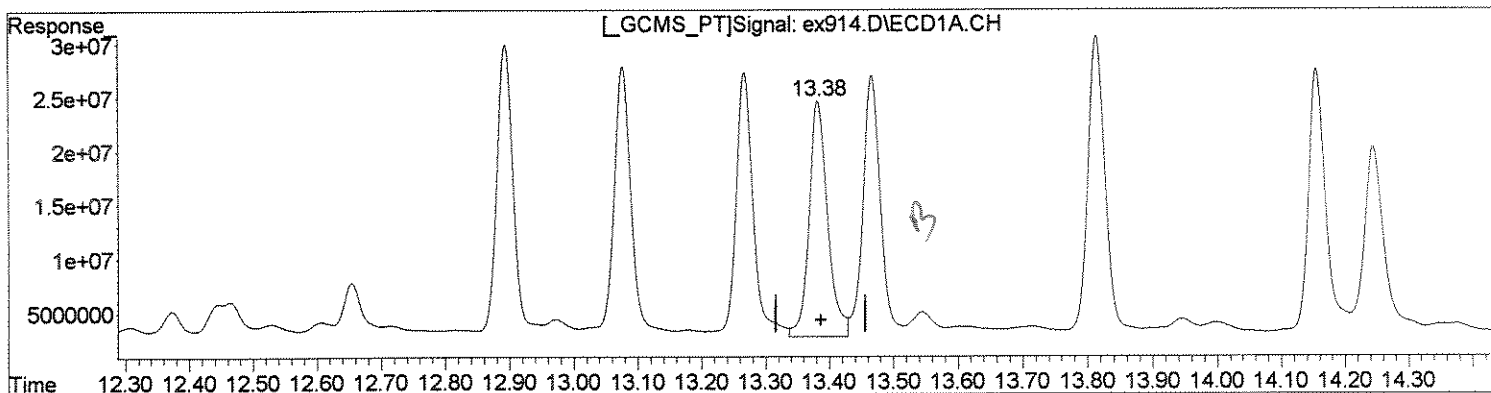
MW 11 *MW 11*

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
13.38min 19.509ug/l
response 438602736

(13) 4,4'-DDE #2 (tc)
13.33min 20.678ug/l
response 1347733639

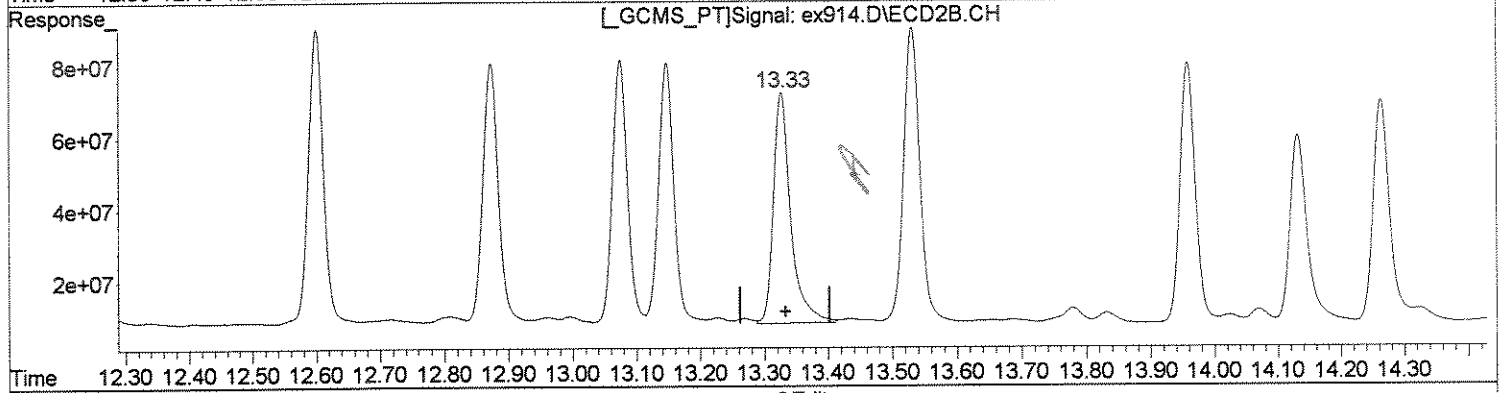
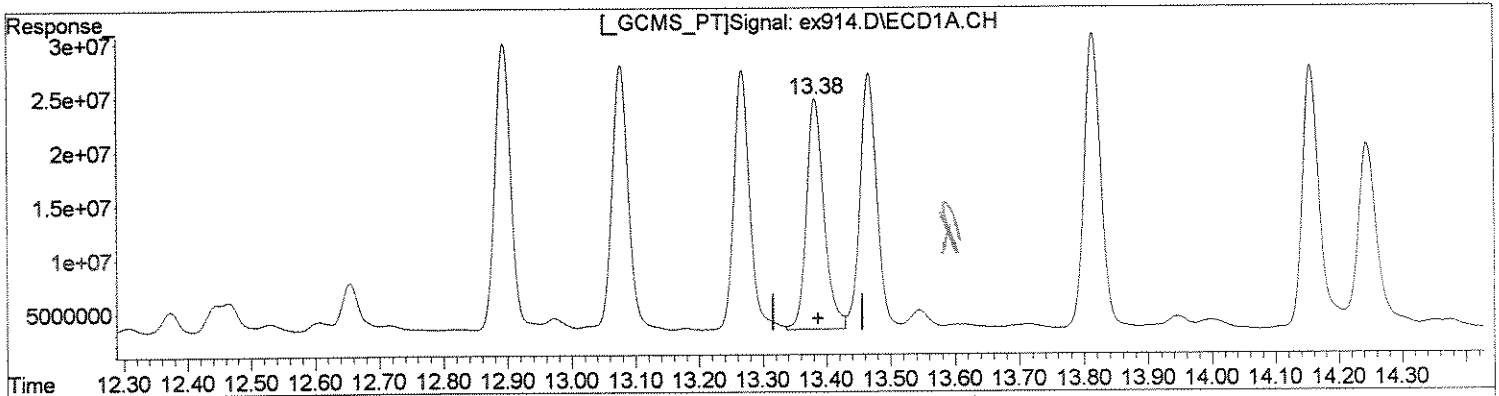
MAN

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
13.38min 18.276ug/l m
response 410886366

(13) 4,4'-DDE #2 (tc)
13.33min 18.617ug/l m
response 121338328

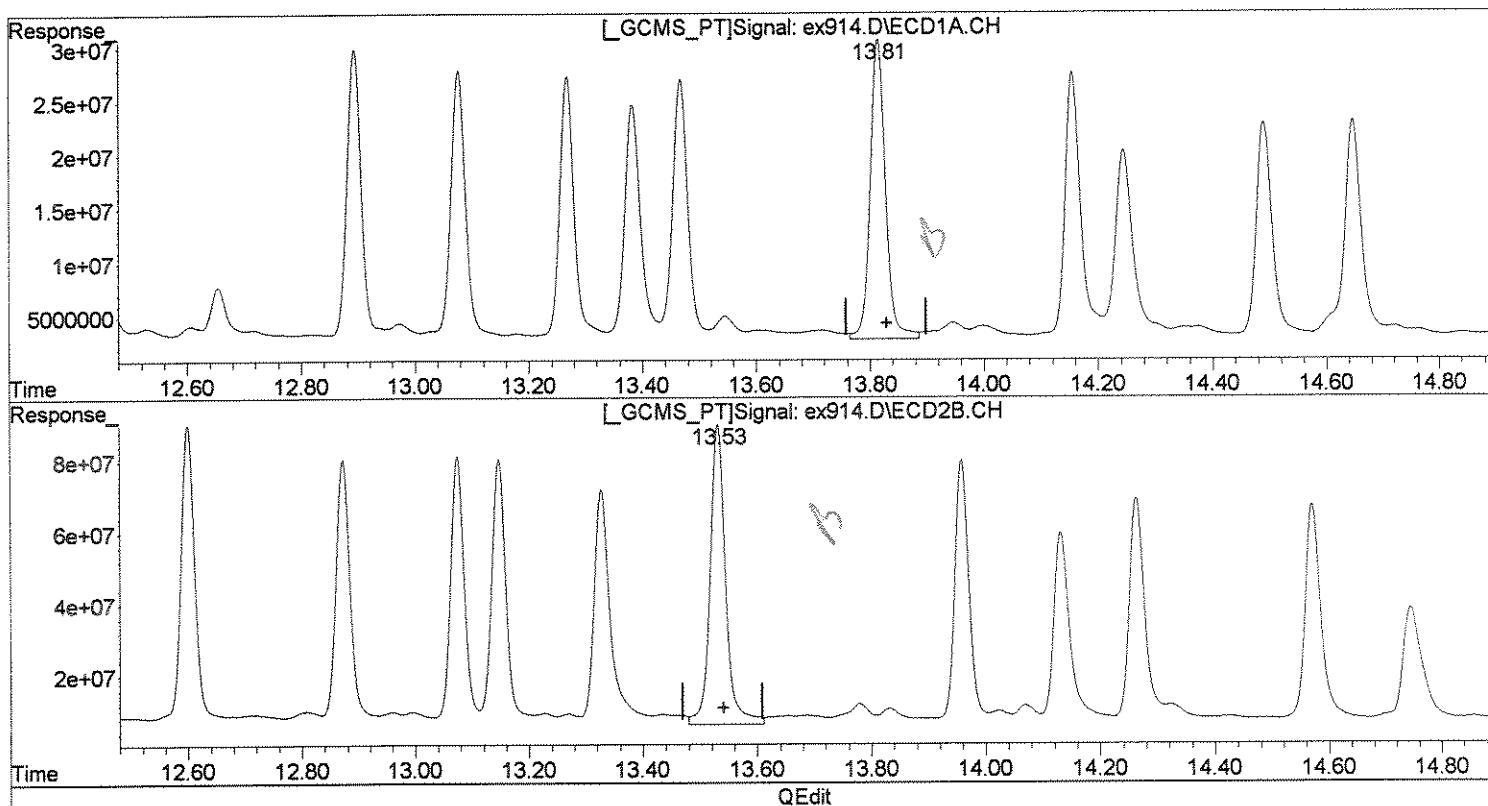
MVP
7/1
7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(14) Dieldrin (tcm)
13.81min 22.533ug/l
response 524649689

(14) Dieldrin #2 (tcm)
13.53min 24.091ug/l
response 1572040713

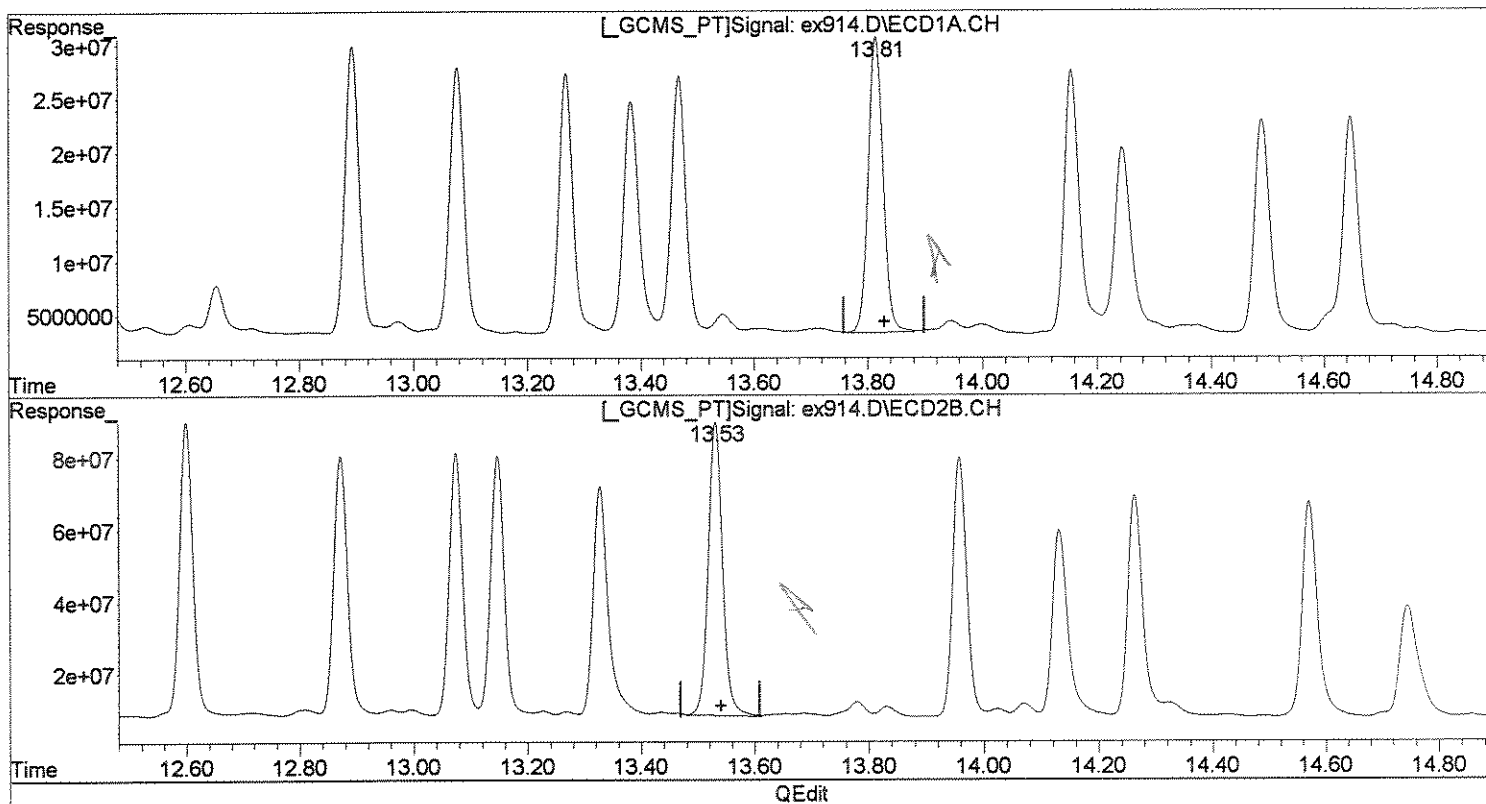
BWML

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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



(14) Dieldrin (tcm)
13.81min 21.143ug/l m
response 492288270

(14) Dieldrin #2 (tcm)
13.53min 21.892ug/l m
response 1428534591

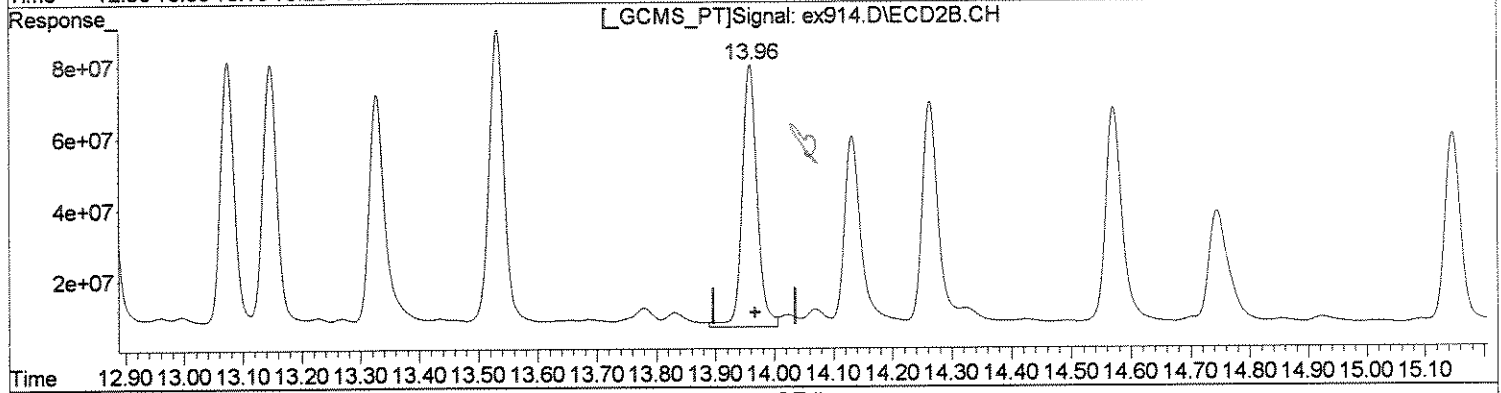
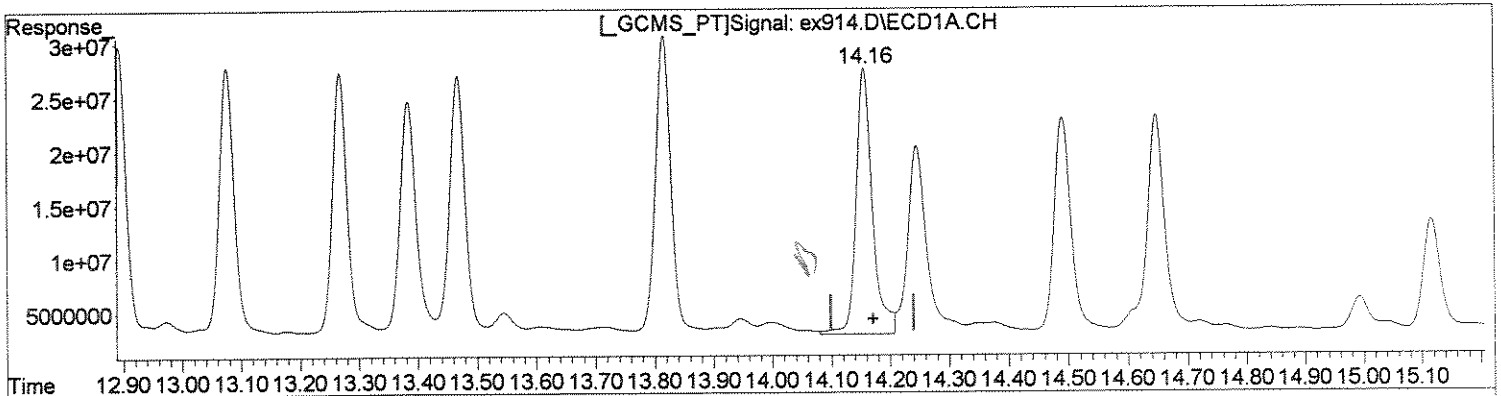
MW 7/1
MW 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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 (tom)
14.16min 22.966ug/l
response 479062070

(15) Endrin #2 (tom)
13.96min 23.072ug/l
response 1308661244

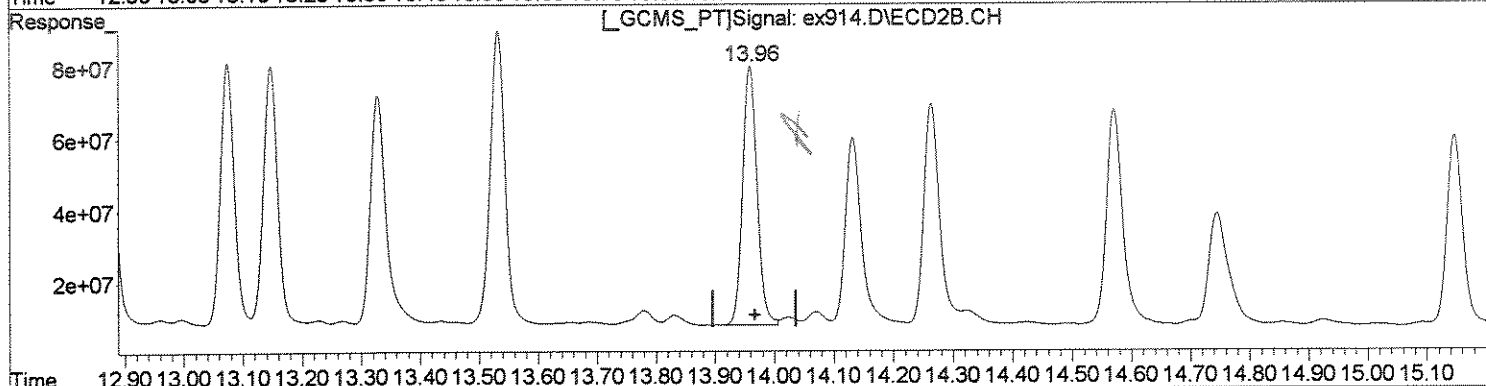
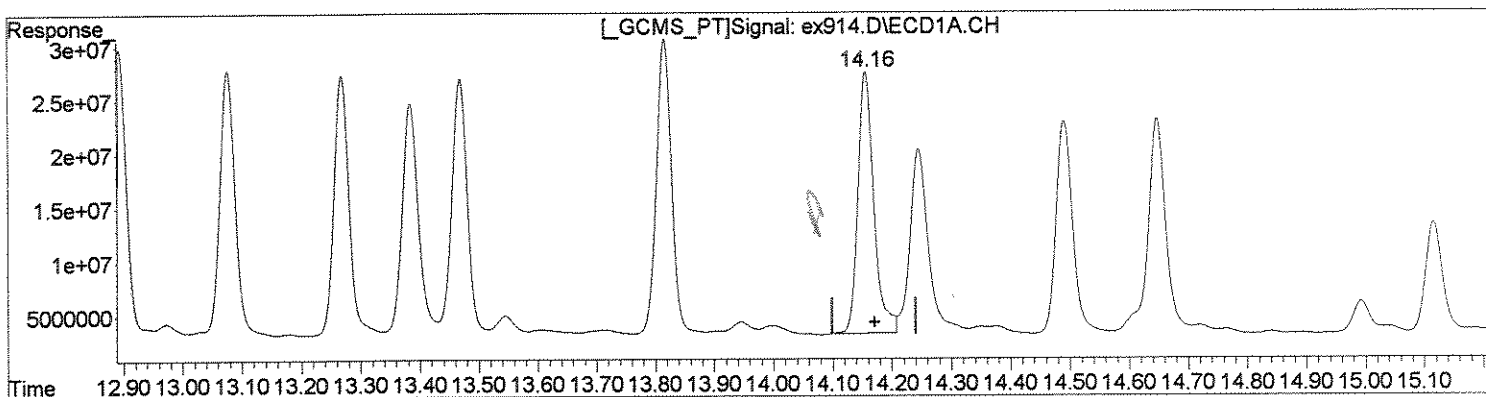
Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
14.16min 21.661ug/l m
response 451834087

(15) Endrin #2 (tcm)
13.96min 21.533ug/l m
response 1221382732

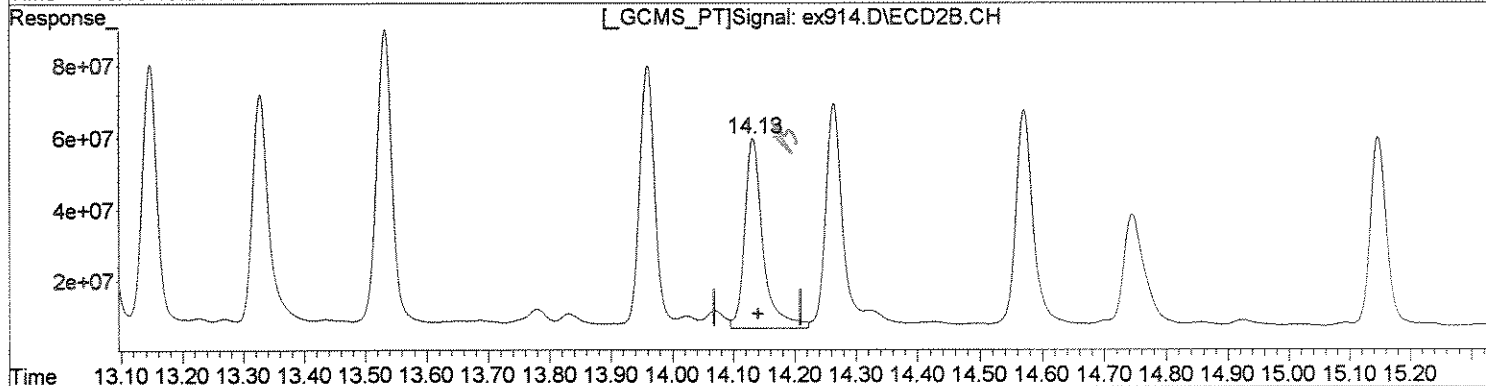
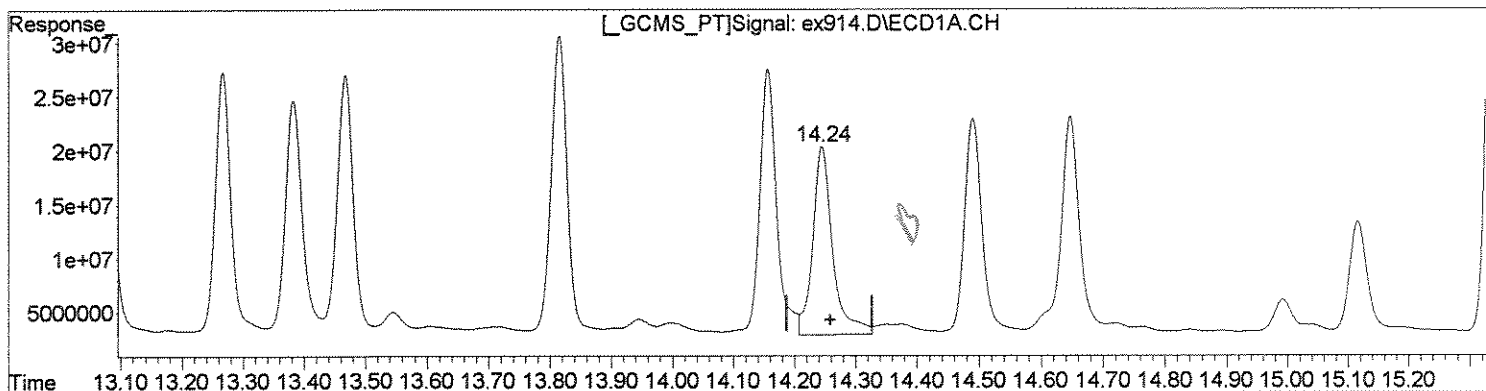
MW 7/1
MW 7/1

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
14.24min 21.050ug/l
response 395949909

Handwritten signature

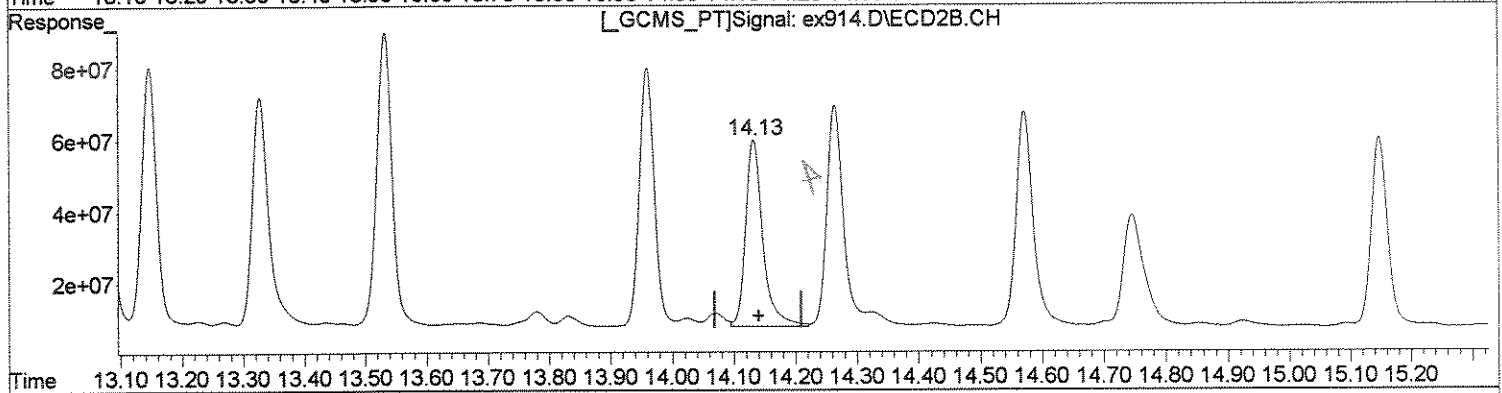
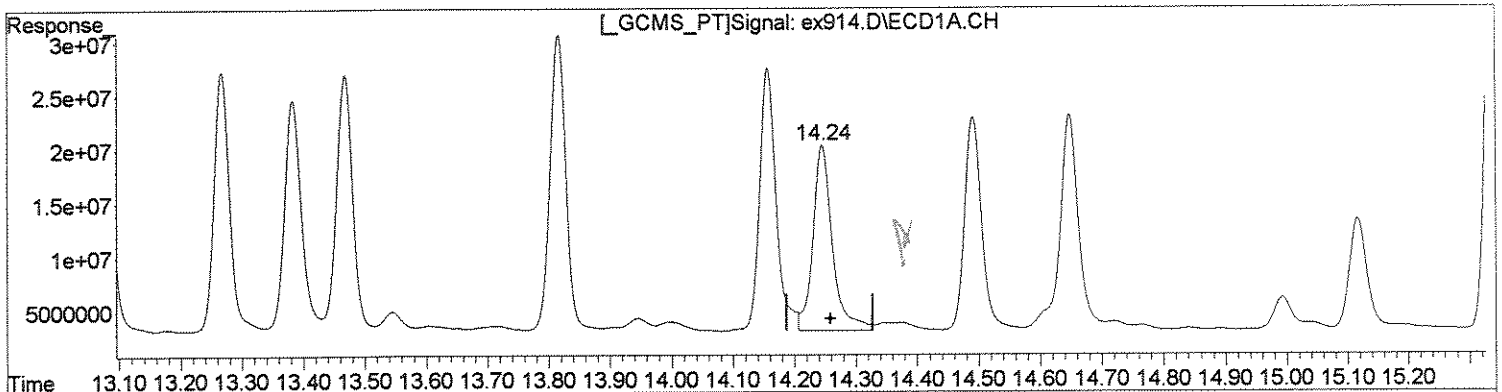
(18) 4,4'-DDD #2 (tc)
14.13min 21.064ug/l
response 1087509530

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\063008\
Data File : ex914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Jun 2008 1:40 pm
Operator : M.PEDRO
Sample : 1113457 1.0
Misc : 06/27/08 200 ensr 8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 01 08:05:38 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Tue Jul 01 08:04:07 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)
14.24min 19.912ug/l m
response 374545624

(18) 4,4'-DDD #2 (tc)
14.13min 19.628ug/l m
response 1013351890

Handwritten notes:
MJP 7/1
MJP 7/1

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX914.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:40 pm
 Operator : M.PEDRO
 Sample : 1113457 1.0
 Misc : 06/27/08 200 ensr 8081 lcsd
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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/1	ug/1

System Monitoring Compounds						
1) S SURR1,Tetrac	9.27	9.03	1826.1E6	5538.2E6	96.961	90.767
Spiked Amount	100.000	Range 30 - 150	Recovery =		96.96%	90.77%
25) S SURR2,Decachloro	17.39	17.46	1583.1E6	3863.2E6	92.688	88.503
Spiked Amount	100.000	Range 30 - 150	Recovery =		92.69%	88.50%
Target Compounds						
2) TC HEXACHLOROBENZEN	9.97	9.85	1299.0E6	3974.9E6	47.819	45.172
3) tc alpha-BHC	10.26	10.09	659.0E6	2046.0E6	21.943	22.127
4) tcm gamma-BHC (L	10.79	10.65	643.0E6	1979.7E6	23.390	24.096
5) tcm Heptachlor	11.53	11.31	523.1E6	1653.7E6	19.441	20.706
6) tcm Aldrin	11.99	11.77	506.3E6	1338.5E6	20.572	17.859
7) tc beta-BHC	10.96	10.82	275.7E6	805.9E6	23.879	22.590
8) tc delta-BHC	11.23	11.25	620.8E6	1546.2E6	22.448	18.608
9) tc Heptachlor E	12.89	12.60	497.3E6	1550.3E6	21.584	23.072
10) tc alpha-Endosu	13.47	13.15	459.8E6	1328.3E6	22.318	22.292
11) tc gamma-Chlord	13.08	12.87	493.2E6	1361.9E6	21.638	19.533
12) tc alpha-Chlord	13.27	13.07	463.0E6	1285.4E6	20.718	19.354
13) tc 4,4'-DDE	13.38	13.33	438.6E6	1347.7E6	19.509	20.678
14) tcm Dieldrin	13.81	13.53	524.6E6	1572.0E6	22.533	24.091
15) tcm Endrin	14.16	13.96	479.1E6	1308.7E6	22.966	23.072
16) tc KEPONE	14.24	0.00	395.9E6	0	63.267	N.D. #
17) tc beta-Endosul	14.49	14.26	403.7E6	1193.4E6	20.534	21.759
18) tc 4,4'-DDD	14.24	14.13	395.9E6	1087.5E6	21.050	21.064
19) tcm 4,4'-DDT	14.65	14.57	438.6E6	1231.5E6	21.894	22.472
20) tc Endrin Aldeh	15.12	14.75	216.5E6	806.6E6	14.652	20.049 #
21) tc Endosulfan S	15.76	15.15	361.3E6	1003.6E6	19.918	20.220
22) tc Methoxychlor	15.34	15.55	1145.4E6	2877.9E6	116.055	119.338
23) tc FAMPHUR	0.00	15.32	0	17622859	N.D.	0.554 #
24) tc Endrin Keton	16.16	15.91	433.1E6	1126.1E6	20.742	20.801
26) L8C Toxaphene	0.00	14.42	0	60918050	N.D.	37.180 #
29) L8C Toxaphene{4}	16.16	16.08	433.1E6	8278816	487.298	5.090 #
30) L8C Toxaphene{5}	16.34	0.00	22101472	0	32.735	N.D. #

msd

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX914.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:40 pm
 Operator : M.PEDRO
 Sample : 1113457 1.0
 Misc : 06/27/08 200 ensr 8081 lcsd
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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

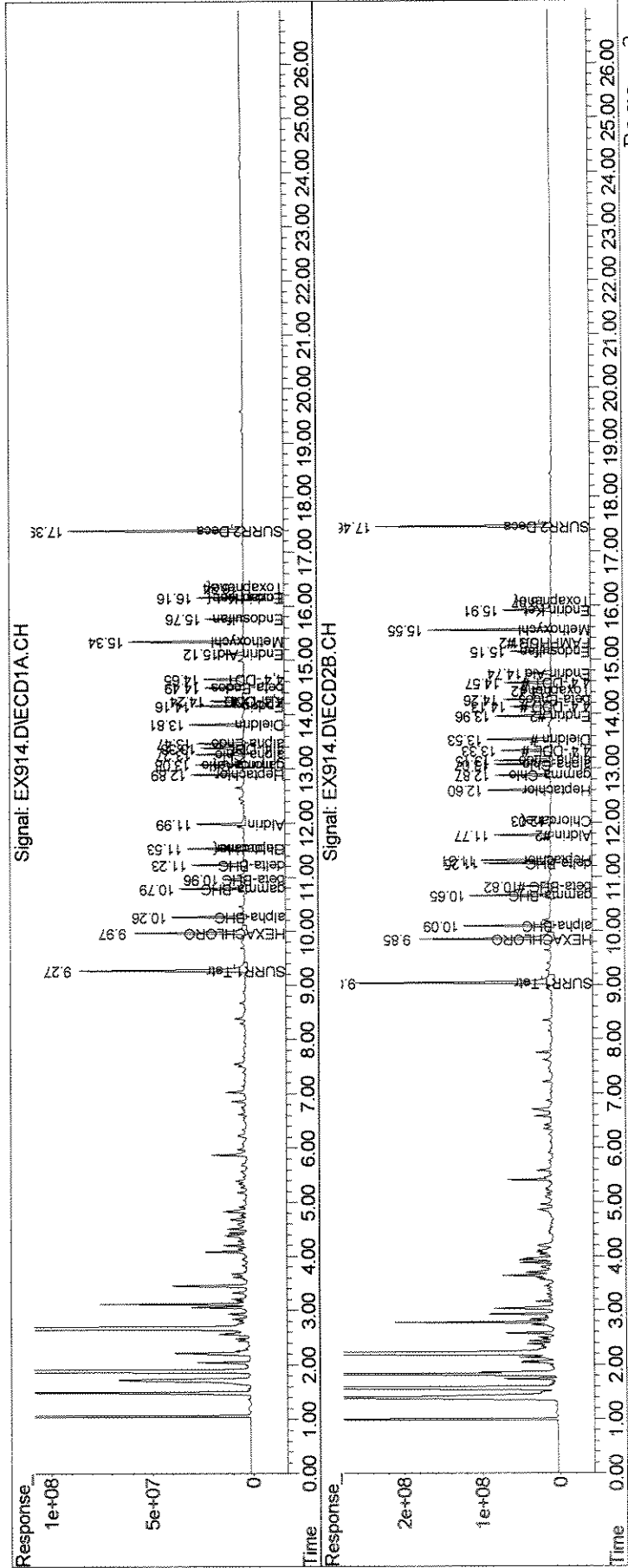
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum Toxaphene			455.2E6	69196866	520.033	42.270
Average Toxaphene					260.017	21.135
32) L9C Chlordane{2}	11.53	0.00	523.1E6	0	480.984	N.D. #
33) L9C Chlordane{3}	0.00	12.03	0	125.0E6	N.D.	45.037 #
34) L9C Chlordane{4}	13.08	0.00	493.2E6	0	180.191	N.D. #
Sum Chlordane			1016.3E6	125.0E6	661.175	45.037
Average Chlordane					330.587	45.037

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : J:\ACQUDATA\6890D\DATA\063008\
 Data File : EX914.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 30 Jun 2008 1:40 pm
 Operator : M.PEDRO
 Sample : 1113457 1.0
 Misc : 06/27/08 200 ensr 8081 lcsd
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Jul 01 08:05:38 2008
 Quant Method : J:\ACQUDATA\6890D\METHODS\80810602.M
 Quant Title : 608/8081A PESTICIDES
 QLast Update : Tue Jul 01 08:04:07 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 163012

Extraction Tech: LED 6/25/2008
 Concentration Tech: LED 8/4/2008
 40 Day HT: LED

Spiked By: LED
 Spk Witness: LED

Prep Method: 3540C 3510C 3580A
 3550B 3520C

Color: C = Colorless, Y = Yellow, B = Brown, BL = Black, G = Grey
 Clarity: CLR = Clear, CDY = Cloudy, OP = Opaque
 Solis: F = Fine/Sand, M = Medium/Soil, C = Coarse/Rocks

Batch ID: E062508B
 Prep ID: _____

Client / Sub. #	Order #	Initial Wt. (g) / Initial Vol. (ml)	Appearance (see key)	Analysis (Test) Requested	pH (Water) rec'd / adjusted	Conc. Date	Final Vol (ml)	Date Complete	Comments/ Emulsions
• 5 •• BLK	•	1000	C-LCA	8081/808	6	6/26	10ML	6/26	
• LCS	•	1000	I	608PCB	6		10ML		
• LCSD	•	1000	I	608PCB	6		10ML		
• 1109355	•	1000	I	608PPL/PCB	7		10ML		
• 1109356	•	1000	C-LCA	608PPL/PCB	7		10ML		
• 1110337	•	800	T-CPI	8081A	7		10ML		
• 1110337 MSD	•	500	I	8081A	7		5ML		1/2ML SURR SPIKE
• 1110981	•	500	I	8081A	7		5ML		1/2ML SURR SPIKE
• 1111264	•	1000	F-CPI	8081A.NEVA	6		5ML		1/2ML SURR
• 1111265	•	1000	I	8081A.NEVA	7		5ML		1/2ML SURR
• 1111266	•	1000	I	8081A.NEVA	7		5ML		1/2ML SURR
• 1111267	•	1000	I	8081A.NEVA	7		5ML		1/2ML SURR
• 1111763	•	1000	I	8081A.NEVA	7		5ML		1/2ML SURR
• 1111764	•	1000	I	8081A.NEVA	7		5ML		1/2ML SURR
• 1111765	•	1000	I	8081A.NEVA	7		5ML		1/2ML SURR
• LCS	•	1000	C-LCA	8081/608PPL	7		5ML		1/2ML SURR
• LCSD	•	1000	I	8081/608PPL	7		10ML		1/2ML SURR
• BEK2	•	1000	I	8081A.NEVA	7		10ML		1/2ML SURR
• 112066	•	112066	I	8081A.NEVA	7		5ml		1/2ML SURR
• 112067	•	112067	I	8081A.NEVA	7		5ml		1/2ML SURR
• 112067	•	112067	I	8081A.NEVA	7		5ml		1/2ML SURR

Spikes: 8081/8082 PCB oil Surrogate 8151 water/soil Surr 95-3 Surrogate PCB Spike 608 Spike 8081/CLP Spike 8151 water/soil Spike 95-3 Spike Other:

(All samples had Surrogate added; LCS/LCSD, MS/MSD had Spike added)

Solvents: 50:50 Ace:MeCl2 Lot # _____
 MeCl2 Lot # _____
 Acetone Lot # _____

Hexane Lot# 0-344-37-0
 Ether Lot# _____
 Sodium Sulfate Lot# 0-344-37-0
 Sulfuric Acid
 Sodium Hydroxide
 Other:

Clean-Ups: 8081 F01(S)3620B ByDate _____ Lot# _____
 8081/8082 Hg(3660B) ByDate 6/26/08 Lot# 0-344-37-0
 8081/8082 CuTBA(3660B) ByDate _____ Lot# _____
 8082 Ach(3665A) ByDate 6/26/08 Lot# 0-344-37-0
 8081/8082 GPC(3640A) ByDate _____ Lot# _____

Method Summary:
 1000 ml sample extracted with 60mls MeCl2 3x at neutral pH for 2 min.

Run 140358

Extraction Tech: JK **Spiked By:** JK
Extraction Date: 6/27/2008 **Spk Witness:** LED
Concentration Tech: LED **40 Day HT:** 8/6/2008
Batch ID: E062708A **Prep ID:** _____
Key: C = Colorless, Y = Yellow, B = Brown, BL = Black, G = Grey
 Color: _____ **Prep Method:** 3550B 3540C
 Clarity: CLR = Clear, CDY = Cloudy, OP = Opaque 3510C 3520C
 Soils: F = Fine/Sand, M = Medium/Soil, C = Coarse/Rocks 3580A

Client / Sub. #	Order #	Initial Wt. (g) / Initial Vol. (ml)	Appearance (see Key)	Analysis (Test) Requested	pH (Water) rec'd adjusted	Conc. Date	Final Vol (ml)	Date Complete	Comments/ Emulsions
113455	•• BLK	1000g	C-c-c	8081A.NEVA	7	6/30	5ML	6/30	12ML SURR/SPIKE
113456	•• LCS	1000g	f	8081A.NEVA	7		5ML		
113457	•• LCSD	1000g	f	8081A.NEVA	7		5ML		
R44538	•• 1111265	1000g	f	8081A.NEVA	7		5ML		REEXTRACT
R44650	•• 1111266	1000g	f	8081A.NEVA	7		5ML		
	•• 1112486	1000g	C-c-c	8081A.NEVA	7		5ML		
	•• 1112487	1000g	f	8081A.NEVA	7		5ML		
	•• 1112488	1000g	f	8081A.NEVA	7		5ML		
	•• 1112489	1000g	f	8081A.NEVA	7		5ML		
	•• 1112509	1000g	f	8081A.NEVA	7		5ML		
	•• 1112510	1000g	f		7				
	•• 1112511	1000g	f		7				
	•• 1112512	1000g	f		7				
	•• 1112571	1000g	f		7				
	•• 1112572	1000g	f		7				
113458	•• 1112574 MS	1000g	f		7				
113459	•• 1112574 MS	1000g	f		7				

Spikes: 8081/8082 PCB oil Surrogate Amt. 1/2 ml Conc. _____ ppm Lot# _____
 8151 water/soil Surr Amt. _____ ml Conc. _____ ppm Lot# _____
 95-3 Surrogate Amt. _____ ml Conc. _____ ppm Lot# _____
 PCB Spike Amt. _____ ml Conc. _____ ppm Lot# _____
 608 Spike Amt. 1/2 ml Conc. 200 ppm Lot# _____
 8081TCLP Spike Amt. _____ ml Conc. _____ ppm Lot# _____
 8151 water/soil Spike Amt. _____ ml Conc. _____ ppm Lot# _____
 95-3 Spike Amt. _____ ml Conc. _____ ppm Lot# _____
 Other: _____

Clean-Ups: Q-379-198-B 8081 Florisil(3620B) By/Date _____ Lot# _____
 Q-379-198-B 8082 Hg(3660B) By/Date 6/30 Lot# 0-344-37-f
 Q-379-198-B 8081/8082 Cu/TBA(3660B) By/Date _____ Lot# _____
 Q-379-198-B 8082 Acid(3665A) By/Date _____ Lot# _____
 Q-379-198-B 8081/8082 GPC(3640A) By/Date _____ Lot# _____

Method Summary:
 1000 ml sample extracted with 60mls MeCl2 3x at neutral pH for 2 min.

Solvents: 50:50 Ace:MeCl2 Lot # _____
 MeCl2 Lot # _____
 Acetone Lot # _____
 Hexane Lot# 0-344-37-0
 Ether Lot# _____
 Sodium Sulfate Lot# 0-375-86-7
 Sulfuric Acid Lot# _____
 Sodium Hydroxide Lot# _____
 Other: _____

01112

6/24

8081

6895D

Meghan Pea

Pem 0-559-196 F

CW239 ↓ 152H

CW23b ↓ 203C

~~██████~~ R-44099 1111722 BIK

1111723 LCS

1111724 LCSD

1109140

1109141

1109142

1109143

1109144

1111725 EQBLL

Pem 0-559-196 F

CW24a ↓ 152H

CW24b ↓ 203C

1111736 BK

1111737 LCS

1111738 LCSD

~~██████~~ R-44024 1109376

1111739 US

1111740 MSD

1109377

1109379

1109380

1109381

CW25a 0-559-152H

CW25b ↓ 203C

~~██████~~ R-44024 1109382

~~██████~~ R-44352 1109708

↓ 1110532

1111769 BIK

CW26a 0-559-152H

CW26b ↓ 203C

8081 0602 m EX 833 YPE

839 YL

B.C. end. Kat 75% 840 YL

841 YMB

842 YA

843 YR

844 Y

845 Y

846 Y

847 Y

848 Y

849 Y

850 YPE

851 YCC

852 YCC

853 YMB

854 YR

855 YR

856 Y

Not spiked

857 Y

858 Y

859 Y

860 Y

861 Y

862 Y

DOT 15% B.C. 863 YCC

864 YCC

865 Y

866 Y

Temp 2 5% B.C. 867 R 1/20
OCB 5%

868

869 YCC

870 YCC

2a

1/26/08

3081

6590D

Magnolia

38 yPE
 19 yC
 10 yC
 11 yMB
 12 yC
 3 yR
 4 y
 5 y
 6 y
 7 y
 8 y
 9 y
 21 yE
 51 yCC
 72 yCC
 13 yMB
 14 yR
 5 yC
 6 y
 7 y
 8 y
 9 y
 10 y
 11 y
 12 y
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 96 y
 97 y
 98 y
 99 y
 100 y

Pem
 0-559-152H
 CCV27a 152H
 CCV27b 203C
 UNSR-44538 1110532 20.
 1111245 1.0
 1111246 1.0
 1111267 1.0
 1111763 1.0
 1111764 1.0
 1111765 1.0
 1112065 1.0
 1112066 1.0
 1112067 1.0
 1112628 81A
 CCV28a 0-559-152H
 CCV28b 203C
 1112523 81A
 1112524 81A
 1112527 45D
 R-4453 1109355
 1109356
 R-4457 1110337
 1112526 MS
 1112527 45D
 R-44538 1110981
 1111264
 CCV29a 0-559-152H
 CCV29b 203C
 Bkl Neutral
 2 ↓
 3 Acid
 4 ↓
 5 Base
 6 ↓

851002 .m

EX 871 yPE
 872 yCC
 873 yCC
 874 y
 875 Recextract
 876 b
 877 y
 878 y
 879 y
 880 R-4453
 881 y
 882 y
 883 y
 884 y
 885 yCC
 886 yCC
 887 yMB
 888 yC
 889 yC
 890 y
 891 y
 892 y
 893 some low
 894 yC
 895 CCB ↓
 896 y
 897 yCC
 898 yCC
 899 yC
 900
 901
 902
 903
 904

Endo 715%

10/30/06

508 WS9100

MSP/lea

86010002M EX 905 YPE

Perm
CCW30a
CCW30b

0-559-196F
152H
203C

1111765 50.0
1110404 Blm soil
1110405 LCS
1110406 LCSD

1113455 Blm ^{uniform}₃₀₁ 1/30
1113430 LCS
1113457 LCSD

█ R-44538
↓

1111265 1.0
1111266 1.0

CCW31a
CCW31b

0-559-102H
↓ 203C

█ K-44662
↓

1112484 1.0
1112487 1.0
1112488 1.0
1112489 1.0
1112809 1.0
1112810 1.0
1112811 1.0
1112812 1.0
1112871 1.0
1112872 1.0

CCW32a
CCW32b
Perm
CCW33a
CCW33b
anal R44650

0-559-152H
↓ 203C
196F
152H
↓ 203C
wp 1/30
1112874 1.0
1113456 MS 1.0
1113459 MSO 1.0

CCW34a
CCW34b

0-559-152H
↓ 203C
1109385 1.0
1109386 1.0
1109387 1.0
1109388 1.0
1109389 1.0
1104107 1.0 MS

█ K-44904
↓

some low

906 ycc
907 ycc
908 y
909 yms
910 y R
911 y
912 yms
913 y R
914 y R
915 y rpt 'b
916 y
917 ycc
918 ycc
919 rpt '10
920 rpt '10
921 y
922 rpt '10
923 rpt '10
924 rpt '10
925 1/10

Endos + B.C.

Endos + B.C.

Endos + B.C.

926 y
927 y
928 y
929 ycc
930 ycc
931 yms
932 ycc
933 ycc
934 y
935 y R
936 y R
937 ycc
938 ycc
939 y
940 y
941 y
942 y
943 y
944 y smth

7/10/08

6081/5051

685100

MSB Pea

Rem 0-559-196F
 PIBW 165J
 INDAL 209E
 ML H
 M G
 MH F
 H E
 INOBL 205E
 ML D
 M C
 MH B
 H A
 Kep/fam L 169A
 ML B
 M C
 MH D
 H E
 Kep/fam IGV 176D ^{no 11}
 TX L 176E
 ML 176E ^{no 11}
 M 176EF
 MH 176H
 H 176H
 Chln L 176I
 ML 176J
 M 176K
 MH 176L
 H 176M
 8081 IGV 170A ^{no 11}
 TX IGV 177A
 Chln IGV 177B
 Pem 0-559-196F
 Ceula ↓ 209G
 Ceulb ↓ 205B
 R-44558 111265 2.0
 R-44650 111486 20.
 111487 10
 111488 10.
 111489 10.
 111489 111809 10.

30810710.14 8p 034 y
 035 y
 036 y
 037 y
 038 y
 039 y
 040 y
 041 y
 042 y
 043 y
 044 y
 045 y
 046 y
 047 y
 048 y
 049 y
 050 y
 051 y
 052 y
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 054 y
 055 y
 056 y
 057 y
 058 y
 059 y
 060 y
 061 y
 062 y
 063 y
 064 y
 065 y
 066 y
 067 y
 068 y
 069 y
 070 y
 071 y
 072 y
 073 y

operation on BAC section

7/14/08

608/80231
1114810 10.
111488 20

68900

~~10240~~

074 y

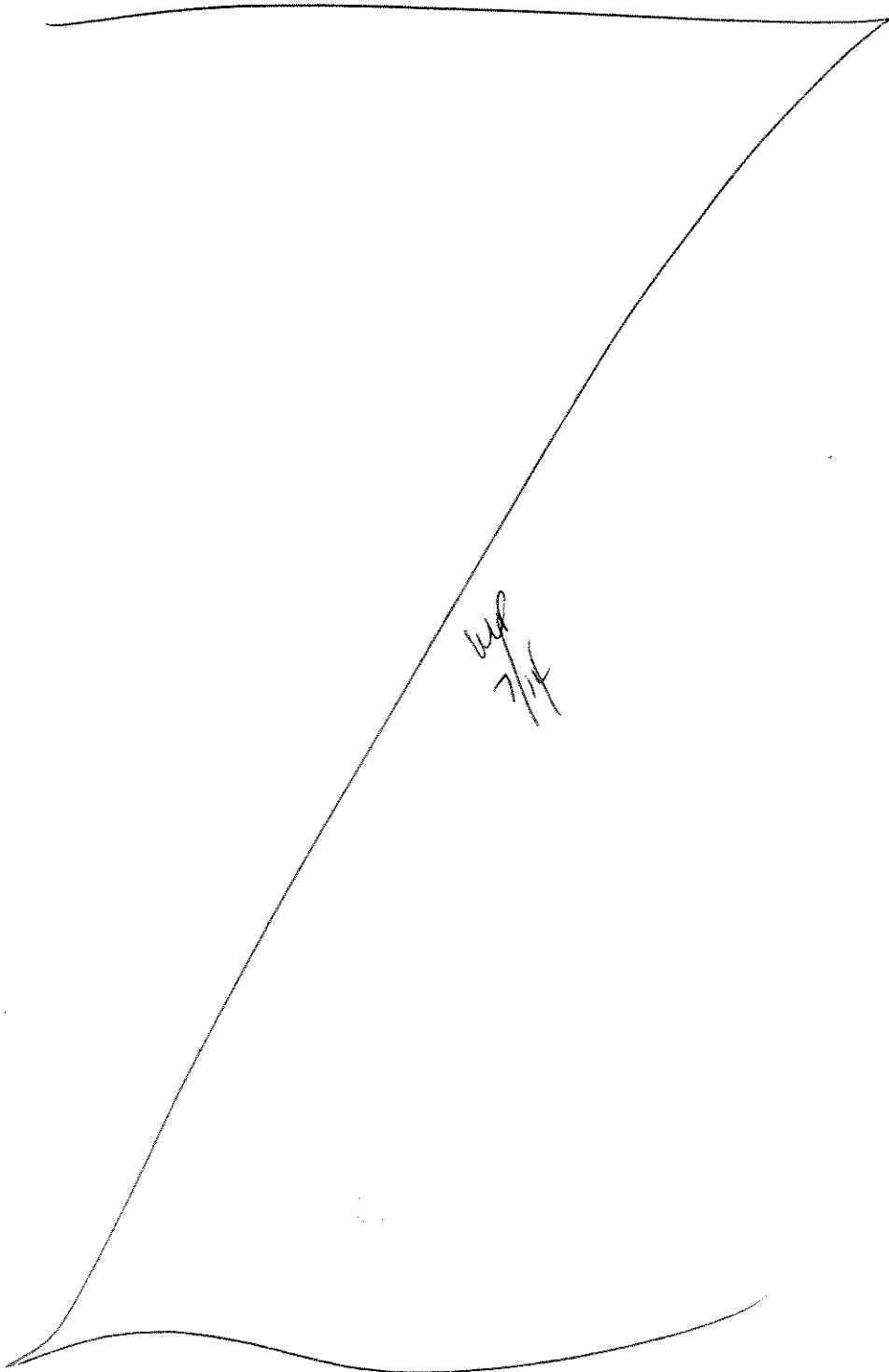
075 y

076 y

077 y

078 y

Arxams
CW2a
CW2b



GENERAL CHEMISTRY DATA

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PB061608B

Date Sampled : 06/16/08 14:30 Order #: 1109708 Sample Matrix: WATER
 Date Received: 06/17/08 Submission #: R2844538

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	2.90	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/10/08	22:51	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	2.00 U	MG/L	06/17/08	16:36	10.0
CONDUCTIVITY	120.1		1.65	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/14/08	16:08	10.0
NITRATE NITROGEN	9056	0.0500	0.500 U	MG/L	06/17/08	16:36	10.0
NITRITE NITROGEN	9056	0.05	0.500 U	MG/L	06/17/08	16:36	10.0
PH	9040	1.00	6.07	S.U.	06/17/08	18:45	1.0
SULFATE	9056	0.200	2.00 U	MG/L	06/17/08	16:36	10.0
SURFACTANTS	SM5540C	0.0200	0.0200 U	MG/L	06/17/08	09:30	1.0
TOTAL ALKALINITY	SM2320B	2.00	2.90	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	06/20/08	10:42	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	10.0 U	MG/L	06/18/08	09:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	06/28/08	16:28	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	06/28/08	16:38	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	06/28/08	16:47	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	06/28/08	16:56	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.00 U	MG/L	06/28/08	16:28	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	06/25/08	09:49	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	06/19/08	13:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-40B

Date Sampled : 06/18/08 13:00 Order #: 1110532 Sample Matrix: WATER
 Date Received: 06/19/08 Submission #: R2844538

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.119	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	250	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/10/08	23:06	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	5250	MG/L	06/26/08	16:22	1000.0
CONDUCTIVITY	120.1		18600	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/14/08	16:39	10.0
NITRATE NITROGEN	9056	0.0500	1.43	MG/L	06/20/08	00:27	10.0
NITRITE NITROGEN	9056	0.05	0.500 U	MG/L	06/20/08	00:27	10.0
PH	9040	1.00	7.20	S.U.	06/19/08	14:40	1.0
SULFATE	9056	0.200	1980	MG/L	06/26/08	16:22	1000.0
SURFACTANTS	SM5540C	0.0200	1.18	MG/L	06/20/08	12:00	4.0
TOTAL ALKALINITY	SM2320B	2.00	250	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	06/27/08	11:13	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	13600	MG/L	06/24/08	10:20	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.91	MG/L	06/29/08	12:40	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.04	MG/L	06/29/08	12:49	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.07	MG/L	06/29/08	12:58	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.97	MG/L	06/29/08	13:08	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	2.00	MG/L	06/29/08	12:40	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	06/25/08	09:49	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.40	MG/L	06/23/08	13:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : H-48B

Date Sampled : 06/19/08 10:30 Order #: 1110981 Sample Matrix: WATER
 Date Received: 06/20/08 Submission #: R2844538

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	1.68	MG/L	07/24/08	09:24	20.0
BICARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	2.00 U	MG/L	07/12/08	02:48	20.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	6610	MG/L	06/26/08	17:02	4000.0
CONDUCTIVITY	120.1		25300	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/14/08	16:50	10.0
NITRATE NITROGEN	9056	0.0500	0.602	MG/L	06/21/08	15:25	10.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	06/23/08	13:38	100.0
PH	9040	1.00	3.49	S.U.	06/20/08	17:40	1.0
SULFATE	9056	0.200	2810	MG/L	06/26/08	16:36	400.0
SURFACTANTS	SM5540C	0.0200	0.527	MG/L	06/20/08	12:00	3.0
TOTAL ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	06/27/08	11:13	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	18700	MG/L	06/24/08	10:20	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.82	MG/L	06/29/08	15:49	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.71	MG/L	06/29/08	15:59	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.78	MG/L	06/29/08	16:08	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.80	MG/L	06/29/08	16:17	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.78	MG/L	06/29/08	15:49	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.244	MG/L	06/25/08	09:49	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	55.9	MG/L	06/23/08	13:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66BD

Date Sampled : 06/20/08 12:00
Date Received: 06/21/08

Order #: 1111264
Submission #: R2844538

Sample Matrix: WATER

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.646	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	94.7	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	1.41	MG/L	07/10/08	23:34	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	2210	MG/L	06/26/08	17:04	400.0
CONDUCTIVITY	120.1		10700	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.634	MG/L	07/14/08	17:00	10.0
NITRATE NITROGEN	9056	0.0500	33.3	MG/L	06/21/08	15:39	10.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	06/23/08	13:52	100.0
PH	9040	1.00	7.46	S.U.	06/21/08	10:55	1.0
SULFATE	9056	0.200	2220	MG/L	06/26/08	17:04	400.0
SURFACTANTS	SM5540C	0.0200	0.292	MG/L	06/21/08	12:00	1.0
TOTAL ALKALINITY	SM2320B	2.00	94.7	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0200 U	MG/L	07/03/08	11:16	2.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	8530	MG/L	06/24/08	10:20	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.18	MG/L	06/29/08	16:27	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.27	MG/L	06/29/08	16:37	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.32	MG/L	06/29/08	16:46	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.33	MG/L	06/29/08	16:55	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	2.27	MG/L	06/29/08	16:27	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0832	MG/L	06/25/08	09:49	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	77.7	MG/L	06/25/08	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-65B

Date Sampled : 06/20/08 12:00 Order #: 1111265 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	79.3	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/10/08	23:49	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	3090	MG/L	07/10/08	12:31	1000.0
CONDUCTIVITY	120.1		12800	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.574	MG/L	07/14/08	17:11	10.0
NITRATE NITROGEN	9056	0.0500	5.73	MG/L	06/21/08	15:53	10.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	06/23/08	14:07	100.0
PH	9040	1.00	7.30	S.U.	06/21/08	10:55	1.0
SULFATE	9056	0.200	2040	MG/L	06/26/08	17:18	400.0
SURFACTANTS	SM5540C	0.0200	0.635	MG/L	06/21/08	12:00	2.0
TOTAL ALKALINITY	SM2320B	2.00	79.3	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0365	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	8830	MG/L	06/24/08	10:20	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.56	MG/L	06/29/08	17:05	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.59	MG/L	06/29/08	17:15	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.64	MG/L	06/29/08	17:24	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.69	MG/L	06/29/08	17:33	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.62	MG/L	06/29/08	17:05	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	06/25/08	09:49	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	2.10	MG/L	06/25/08	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-66B

Date Sampled : 06/20/08 10:50 Order #: 1111266 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	93.3	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	1.88	MG/L	07/11/08	00:03	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	2220	MG/L	07/08/08	20:40	400.0
CONDUCTIVITY	120.1		10600	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.106	MG/L	07/14/08	17:21	10.0
NITRATE NITROGEN	9056	0.0500	32.1	MG/L	06/21/08	16:08	10.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	06/23/08	14:21	100.0
PH	9040	1.00	7.44	S.U.	06/21/08	10:55	1.0
SULFATE	9056	0.200	2220	MG/L	07/08/08	20:40	400.0
SURFACTANTS	SM5540C	0.0200	0.751	MG/L	06/21/08	12:00	2.0
TOTAL ALKALINITY	SM2320B	2.00	93.3	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0379	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	8040	MG/L	06/24/08	10:20	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.01	MG/L	06/29/08	18:59	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.83	MG/L	06/29/08	19:08	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.66	MG/L	06/29/08	19:18	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.71	MG/L	06/29/08	19:27	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.80	MG/L	06/29/08	18:59	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	06/25/08	09:49	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	42.3	MG/L	06/25/08	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-37B

Date Sampled : 06/20/08 10:00 Order #: 1111267 Sample Matrix: WATER
 Date Received: 06/21/08 Submission #: R2844538

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0737	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	90.3	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	00:17	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	1700	MG/L	07/10/08	12:45	1000.0
CONDUCTIVITY	120.1		9150	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/14/08	17:31	10.0
NITRATE NITROGEN	9056	0.0500	12.1	MG/L	06/21/08	16:22	10.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	06/23/08	14:35	100.0
PH	9040	1.00	7.58	S.U.	06/21/08	10:55	1.0
SULFATE	9056	0.200	21300	MG/L	07/16/08	02:22	1000.0
SURFACTANTS	SM5540C	0.0200	0.655	MG/L	06/21/08	12:00	2.0
TOTAL ALKALINITY	SM2320B	2.00	90.3	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0255	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	7160	MG/L	06/24/08	10:20	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.08	MG/L	06/29/08	19:37	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.12	MG/L	06/29/08	19:46	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.39	MG/L	06/29/08	19:56	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.10	MG/L	06/29/08	20:05	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.17	MG/L	06/29/08	19:37	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	06/25/08	09:49	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	2.60	MG/L	06/25/08	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : PC-72B

Date Sampled : 06/23/08 13:40 Order #: 1111763 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.154	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	80.7	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	1.12	MG/L	07/11/08	00:32	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	1300	MG/L	07/08/08	21:08	400.0
CONDUCTIVITY	120.1		8530	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.250	MG/L	07/14/08	17:42	10.0
NITRATE NITROGEN	9056	0.0500	31.3	MG/L	06/24/08	11:54	10.0
NITRITE NITROGEN	9056	0.05	2.00 U	MG/L	06/24/08	13:05	40.0
PH	9040	1.00	7.61	S.U.	06/24/08	11:45	1.0
SULFATE	9056	0.200	2410	MG/L	07/08/08	21:08	400.0
SURFACTANTS	SM5540C	0.0200	1.05	MG/L	06/23/08	10:45	4.0
TOTAL ALKALINITY	SM2320B	2.00	80.7	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0224	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	7280	MG/L	06/26/08	13:00	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.97	MG/L	07/11/08	23:22	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.13	MG/L	07/11/08	23:32	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.18	MG/L	07/11/08	23:41	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.20	MG/L	07/11/08	23:50	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	2.12	MG/L	07/11/08	23:22	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/02/08	08:44	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	3.40	MG/L	06/27/08	14:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : M-94BX

Date Sampled : 06/23/08 12:00 Order #: 1111764 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.476	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	82.0	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	1.96	MG/L	07/11/08	00:46	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	1620	MG/L	07/08/08	21:22	400.0
CONDUCTIVITY	120.1		9960	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.974	MG/L	07/14/08	17:52	10.0
NITRATE NITROGEN	9056	0.0500	60.8	MG/L	06/24/08	12:51	40.0
NITRITE NITROGEN	9056	0.05	2.00 U	MG/L	06/24/08	12:51	40.0
PH	9040	1.00	7.58	S.U.	06/24/08	11:45	1.0
SULFATE	9056	0.200	2360	MG/L	07/08/08	21:22	400.0
SURFACTANTS	SM5540C	0.0200	0.931	MG/L	06/23/08	10:45	4.0
TOTAL ALKALINITY	SM2320B	2.00	82.0	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0394	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	8650	MG/L	06/26/08	13:00	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.83	MG/L	07/12/08	00:00	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.00	MG/L	07/12/08	00:10	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.04	MG/L	07/12/08	00:19	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.02	MG/L	07/12/08	00:28	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.97	MG/L	07/12/08	00:00	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/02/08	08:44	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	18.3	MG/L	06/27/08	14:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/29/08

ENSR International

Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

Client Sample ID : MC-62B

Date Sampled : 06/23/08 10:30 Order #: 1111765 Sample Matrix: WATER
 Date Received: 06/24/08 Submission #: R2844538

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	06/27/08	10:35	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	164	MG/L	06/25/08	16:00	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/11/08	01:00	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	06/25/08	16:00	1.0
CHLORIDE	9056	0.200	5260	MG/L	07/10/08	12:59	1000.0
CONDUCTIVITY	120.1		18900	umhos/cm	07/25/08	10:30	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/14/08	18:03	10.0
NITRATE NITROGEN	9056	0.0500	0.500 U	MG/L	06/24/08	11:25	10.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	06/24/08	13:48	100.0
PH	9040	1.00	7.38	S.U.	06/24/08	11:45	1.0
SULFATE	9056	0.200	1800	MG/L	07/08/08	21:36	400.0
SURFACTANTS	SM5540C	0.0200	0.811	MG/L	06/23/08	10:45	4.0
TOTAL ALKALINITY	SM2320B	2.00	164	MG/L	06/25/08	16:00	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0100 U	MG/L	07/01/08	08:58	1.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	13700	MG/L	06/26/08	13:00	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.38	MG/L	07/12/08	00:38	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.55	MG/L	07/12/08	00:47	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.65	MG/L	07/12/08	00:57	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.59	MG/L	07/12/08	01:06	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	2.54	MG/L	07/12/08	00:38	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.110	MG/L	07/02/08	08:44	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	06/27/08	14:45	1.0

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844538
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
TOTAL DISSOLVED SOLIDS						
10.0 U	912	914	100	80 - 120	162594	MG/L
CHLORIDE						
0.200 U	1.95	2.00	98	90 - 110	162625	MG/L
SULFATE						
0.200 U	1.83	2.00	92	90 - 110	162626	MG/L
NITRATE NITROGEN						
0.0500 U	0.951	1.00	95	90 - 110	162630	MG/L
NITRITE NITROGEN						
0.0500 U	1.00	1.00	100	90 - 110	162631	MG/L
TOTAL CYANIDE						
0.0100 U	0.392	0.400	98	85 - 115	162663	MG/L
TOTAL SUSPENDED SOLIDS						
1.00 U	215	216	100	80 - 120	162667	MG/L
NITRATE NITROGEN						
0.0500 U	0.952	1.00	95	90 - 110	162717	MG/L
NITRITE NITROGEN						
0.0500 U	0.996	1.00	100	90 - 110	162718	MG/L
SULFATE						
0.200 U	1.93	2.00	96	90 - 110	162719	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844538
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
TOTAL SUSPENDED SOLIDS						
1.00 U	211	216	98	80 - 120	162784	MG/L
NITRITE NITROGEN						
0.0500 U	1.01	1.00	101	90 - 110	162807	MG/L
NITRATE NITROGEN						
0.0500 U	0.994	1.00	99	90 - 110	162828	MG/L
TOTAL DISSOLVED SOLIDS						
10.0 U	917	914	100	80 - 120	162839	MG/L
TOTAL PHOSPHORUS						
0.0500 U	0.728	0.800	91	90 - 110	162842	MG/L
TOTAL CYANIDE						
0.0100 U	0.392	0.400	98	85 - 115	162873	MG/L
TOTAL SUSPENDED SOLIDS						
1.00 U	186	212	88	80 - 120	162885	MG/L
NITRATE NITROGEN						
0.0500 U	0.911	1.00	91	90 - 110	162913	MG/L
NITRITE NITROGEN						
0.0500 U	0.937	1.00	94	90 - 110	162914	MG/L
BICARBONATE ALKALINITY						
2.00 U	20.2	20.0	101	93 - 111	162941	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844538
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
CARBONATE ALKALINITY						
2.00 U	20.2	20.0	101	93 - 111	162942	MG/L
TOTAL ALKALINITY						
2.00 U	20.2	20.0	101	93 - 111	162943	MG/L
TOTAL DISSOLVED SOLIDS						
10.0 U	918	914	100	80 - 120	162973	MG/L
CHLORIDE						
0.200 U	1.92	2.00	96	90 - 110	162999	MG/L
SULFATE						
0.200 U	1.93	2.00	96	90 - 110	163000	MG/L
AMMONIA						
0.0500 U	0.490	0.500	98	90 - 110	163013	MG/L
TOTAL SUSPENDED SOLIDS						
1.00 U	215	212	101	80 - 120	163035	MG/L
TOTAL CYANIDE						
0.0100 U	0.410	0.400	103	85 - 115	163108	MG/L
TOTAL ORGANIC CARBON						
1.00 U	10.0	10.0	101	85 - 115	163123	MG/L
SURFACTANTS						
0.0200 U	0.377	0.400	94	58 - 139	163162	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844538
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
SURFACTANTS						
0.0200 U	0.442	0.400	111	58 - 139	163164	MG/L
SURFACTANTS						
0.0200 U	0.387	0.400	97	58 - 139	163177	MG/L
SURFACTANTS						
0.0200 U	0.399	0.400	100	58 - 139	163179	MG/L
TOTAL PHOSPHORUS						
0.0500 U	0.806	0.800	101	90 - 110	163292	MG/L
TOTAL CYANIDE						
0.0100 U	0.402	0.400	100	85 - 115	163296	MG/L
HEXAVALENT CHROMIUM						
0.0100 U	0.188	0.200	94	90 - 110	163453	MG/L
CHLORIDE						
0.200 U	1.93	2.00	96	90 - 110	163656	MG/L
SULFATE						
0.200 U	1.85	2.00	92	90 - 110	163658	MG/L
CHLORIDE						
0.200 U	1.91	2.00	96	90 - 110	163746	MG/L
BROMIDE						
0.100 U	0.976	1.00	98	90 - 110	163797	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844538
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
TOTAL ORGANIC CARBON						
1.00 U	9.40	10.0	94	85 - 115	163813	MG/L
BROMIDE						
0.100 U	0.950	1.00	95	90 - 110	163865	MG/L
SULFATE						
0.200 U	1.89	2.00	94	90 - 110	163971	MG/L
AMMONIA						
0.0500 U	0.502	0.500	100	90 - 110	164422	MG/L

Run #: 163013

Analyte: NH3 350.1M AMMONIA

Printed: 06/30/08 15:57

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1112987	WATER	1.70	1.0	0.0500	94.5		06/27/2008		
BLK1		1112988	WATER	0.0500	U	1.0	0.0500		06/27/2008		
SPKB		1112989	WATER	0.485		1.0	0.0500	96.9	06/27/2008		
SPKB		1112990	WATER	0.492		1.0	0.0500	98.4	06/27/2008		
ESMP	R2843442	1093541	WATER	12.2	10.0	0.0500			06/27/2008	RUN	2
LDUP		1112991	WATER	12.1	10.0	0.0500		0.50	06/27/2008		
SPK1		1112992	WATER	16.2	10.0	0.0500	79.7		06/27/2008		
ESMP	R2843442	1093542	WATER	1.14	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2843442	1093543	WATER	22.7	20.0	0.0500			06/27/2008	RUN	2
ESMP	R2844175	1105206	WATER	0.118	1.0	0.0500			06/27/2008	RUN	2
LDUP		1112993	WATER	0.116	1.0	0.0500		1.54	06/27/2008		
SPK1		1112994	WATER	0.480	1.0	0.0500	72.4		06/27/2008		
SPKE		1112995	WATER	0.484	1.0	0.0500	96.9		06/27/2008		
ESMP	R2844175	1105207	WATER	0.699	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844175	1105208	WATER	0.188	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844175	1105209	WATER	1.43	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844175	1105210	WATER	0.198	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844175	1105211	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844175	1105212	WATER	0.250	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844175	1105213	WATER	0.745	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844175	1105214	WATER	5.29	5.0	0.0500			06/27/2008	RUN	2
ESMP	R2844175	1105215	WATER	3.59	4.0	0.0500			06/27/2008	RUN	2
ESMP	R2844538	1110532	WATER	0.119	1.0	0.0500			06/27/2008		ASPB
ESMP	R2844175	1110710	WATER	0.181	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844321	1106830	WATER	1.08	1.0	0.0500			06/27/2008		ASPB
LDUP		1112996	WATER	1.07	1.0	0.0500		1.02	06/27/2008		
SPK1		1112997	WATER	1.53	1.0	0.0500	90.6		06/27/2008		
ESMP	R2844503	1109355	WATER	0.0572	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844503	1109356	WATER	0.484	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844538	1111264	WATER	0.646	1.0	0.0500			06/27/2008	RUN	ASPB
ESMP	R2844538	1111265	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER	0.0737	1.0	0.0500			06/27/2008	RUN	ASPB
SPKB		1112998	WATER	0.490	1.0	0.0500	98.0		06/27/2008		
ESMP	R2843634	1096170	WATER	8.41	5.0	0.0500			06/27/2008		1
ESMP	R2843634	1096171	WATER	0.137	1.0	0.0500			06/27/2008		1
ESMP	R2843634	1096173	WATER	1.60	1.0	0.0500			06/27/2008		1
ESMP	R2843634	1096174	WATER	0.580	1.0	0.0500			06/27/2008		1
LDUP		1112999	WATER	0.577	1.0	0.0500		0.55	06/27/2008		
SPK1		1113000	WATER	1.01	1.0	0.0500	86.8		06/27/2008		
ESMP	R2843634	1096175	WATER	0.0500	U	1.0	0.0500		06/27/2008		1
ESMP	R2844538	1111763	WATER	0.154	1.0	0.0500			06/27/2008	RUN	ASPB
ESMP	R2844538	1111764	WATER	0.476	1.0	0.0500			06/27/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	ASPB
ESMP	R2844305	1106639	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844305	1106640	WATER	0.528	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844305	1106641	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	2
LDUP		1113001	WATER	0.0500	U	1.0	0.0500		06/27/2008		
SPK1		1113002	WATER	0.302	1.0	0.0500	60.5		06/27/2008		
ESMP	R2844305	1106642	WATER	0.0500	U	1.0	0.0500		06/27/2008	RUN	2
ESMP	R2844305	1106643	WATER	0.524	1.0	0.0500			06/27/2008	RUN	2

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT		DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844305	1106644	WATER	0.844		1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844305	1106645	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844305	1106646	WATER	0.173		1.0	0.0500			06/27/2008	RUN	2
SPKB		1113003	WATER	0.485		1.0	0.0500	97.0		06/27/2008		
ESMP	R2844305	1106647	WATER	1.22		1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844305	1106648	WATER	0.0505		1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844305	1106649	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844305	1106650	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	2
ESMP	R2844647	1112014	WATER	1030		1000.0	0.0500			06/27/2008	RUN	2
ESMP	R2844647	1112018	WATER	1530		1000.0	0.0500			06/27/2008	RUN	2
ESMP	R2844647	1112019	WATER	1770		1000.0	0.0500			06/27/2008	RUN	2
BLK2		1113006	WATER	5.00	U	1.0	5.00 0.0500			06/27/2008		
SPKB		1113007	WATER	0.492		1.0	0.0500	98.4		06/27/2008		
ESMP	R2844647	1112111	SOLID	1660		20.0	5.00			06/27/2008	RUN	2
LDUP		1113008	SOLID	1660		20.0	5.00		0.10	06/27/2008		
SPK1		1113009	SOLID	2640		20.0	5.00	97.7		06/27/2008		
BLK2		1113004	SOLID	5.00	U	1.0	5.00			06/27/2008		
SPKS		1113005	SOLID	48.4		1.0	5.00	96.8		06/27/2008		
ESMP	R2844647	1112112	SOLID	2130		20.0	5.00			06/27/2008	RUN	2
BLK5		1113010	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		
ESMP	R2844666	1112361	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		ASPB
ESMP	R2844666	1112362	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008	QC	ASPB
LDUP		1113011	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		
SPK1		1113012	SOIL/SEDIME	4.97		1.0	5.00	99.4		06/27/2008		
ESMP	R2844666	1112363	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		ASPB
ESMP	R2844666	1112364	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		ASPB
ESMP	R2844666	1112365	SOIL/SEDIME	5.00	U	1.0	5.00			06/27/2008		ASPB
ESMP	R2844650	1112486	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	ASPB
SPKB		1113013	WATER	0.487		1.0	0.0500	97.5		06/27/2008		
ESMP	R2844650	1112487	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	ASPB
ESMP	R2844650	1112488	WATER	10.2		10.0	0.0500			06/27/2008	RUN	ASPB
ESMP	R2844650	1112489	WATER	0.0500	U	1.0	0.0500			06/27/2008	RUN	ASPB
ESMP	R2844538	1109708	WATER	0.0500	U	1.0	0.0500			06/27/2008		ASPB
SPKB		1113229	WATER	0.490		1.0	0.0500	97.9		06/27/2008		

Records printed: 85

Creator: NMEAD
 Creation Date: Jun 27, 2008 9:54:35
 Last Modified: Jun 27, 2008 11:40:32
 Description: QC 8000 350.1 Ammonia - RUN LOG - 0806270A

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	- high - loaded 0.020 STD?
6	CCV	1.0000	Unknown	rpt @ # 54
7	CCB	1.0000	Unknown	
8	1110578-44252	1.0000	Unknown	- air spike - rpt @ # 158
9	578 DUP	1.0000	Unknown	
10	578 SPK TV = 0.500	1.0000	Unknown	
11	1110579	1.0000	Unknown	
12	1110580	1.0000	Unknown	
13	1111026-44609	1.0000	Unknown	
14	1111031	1.0000	Unknown	
15	1111034	1.0000	Unknown	
16	1111035	1.0000	Unknown	
17	1111036	1.0000	Unknown	
18	CCV	1.0000	Unknown	
19	CCB	1.0000	Unknown	
20	LCS	1.0000	Unknown	
21	1111037	1.0000	Unknown	
22	1111038	1.0000	Unknown	
23	1111039	1.0000	Unknown	
24	1111040	1.0000	Unknown	
25	040 DUP	1.0000	Unknown	
26	040 SPK TV = 0.500	1.0000	Unknown	
27	1111041	1.0000	Unknown	
28	1111042	1.0000	Unknown	- air spike - rpt @ # 159
29	1111043	1.0000	Unknown	
30	1111044	1.0000	Unknown	
31	CCV	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
32	CCB	1.0000	Unknown	
33	1111045	1.0000	Unknown	
34	1111046	1.0000	Unknown	
35	1111047	1.0000	Unknown	- air spike - rpt @ #160
36	1111048	1.0000	Unknown	
37	1111407-44621	1.0000	Unknown	
38	1111638	1.0000	Unknown	
39	1111639	1.0000	Unknown	
40	1111640	1.0000	Unknown	
41	1111726	1.0000	Unknown	
42	726 DUP	1.0000	Unknown	
43	CCV	1.0000	Unknown	
44	CCB	1.0000	Unknown	tray ends here -
45	LCS	1.0000	Unknown	next CCB fails high
46	726 SPK TV = 0.500	1.0000	Unknown	
47	1111897	1.0000	Unknown	
48	1111898	1.0000	Unknown	
49	1111899	1.0000	Unknown	
50	1111900	1.0000	Unknown	
51	1111983	1.0000	Unknown	
52	983 DUP	1.0000	Unknown	
53	983 SPK TV = 0.500	1.0000	Unknown	
54	CRDL - 0.0100 RPT	1.0000	Unknown	
55	1111985	1.0000	Unknown	
56	CCV	1.0000	Unknown	
57	CCB	1.0000	Unknown	- high - repair + rerun
58	1111986	1.0000	Unknown	all samples from #43
59	1111987	1.0000	Unknown	
60	1108907-44491	1.0000	Unknown	
61	1093541-43442	1.0000	Unknown	
62	541 DUP	1.0000	Unknown	
63	541 SPK TV = 0.500	1.0000	Unknown	
64	1093542	1.0000	Unknown	
65	1093543	10.0000	Unknown	
66	1105206-44175	1.0000	Unknown	
67	206 DUP	1.0000	Unknown	
68	CCV	1.0000	Unknown	
69	CCB	1.0000	Unknown	
70	LCS	1.0000	Unknown	
71	206 SPK TV = 0.500	1.0000	Unknown	
72	1105208	1.0000	Unknown	
73	1105209	4.0000	Unknown	
74	1105210	1.0000	Unknown	
75	1105211	1.0000	Unknown	
76	1105212	1.0000	Unknown	

nm 6/27/08

Creator: NMEAD
 Creation Date: Jun 27, 2008 11:50:45
 Last Modified: Jun 27, 2008 11:50:45
 Description: QC 8000 350.1 Ammonia - RUN LOG - 080627A2

Cup #	Sample ID	Manual Dilution	Sample Type	
43	CCV	1.0000	Unknown	
44	CCB	1.0000	Unknown	
45	LCS	1.0000	Unknown	
46	726 SPK TV = 0.500	1.0000	Unknown	
47	1111897	1.0000	Unknown	
48	1111898	1.0000	Unknown	
49	1111899	1.0000	Unknown	
50	1111900	1.0000	Unknown	
51	1111983	1.0000	Unknown	
52	983 DUP	1.0000	Unknown	- air spike - rpt @ # 162
53	983 SPK TV = 0.500	1.0000	Unknown	
54	CRDL - 0.0100 RPT	1.0000	Unknown	- air spike - rpt @ # 163
55	1111985	1.0000	Unknown	- air spike - rpt @ # 164
56	CCV	1.0000	Unknown	
57	CCB	1.0000	Unknown	
58	1111986	1.0000	Unknown	
59	1111987	1.0000	Unknown	
60	1108907-44491	1.0000	Unknown	
61	1093541-43442	1.0000	Unknown	} rpt @ # 165 → 167-11,
62	541 DUP	1.0000	Unknown	
63	541 SPK TV = 0.500	1.0000	Unknown	
64	1093542	1.0000	Unknown	
65	1093543	10.0000	Unknown	- rpt @ # 171 - 1/20
66	1105206-44175	1.0000	Unknown	} air rpt @ # 172, 173
67	206 DUP	1.0000	Unknown	
68	CCV	1.0000	Unknown	
69	CCB	1.0000	Unknown	
70	LCS	1.0000	Unknown	
71	206 SPK TV = 0.500	1.0000	Unknown	
72	1105208	1.0000	Unknown	
73	1105209	4.0000	Unknown	- rpt @ # 174 - str.
74	1105210	1.0000	Unknown	
75	1105211	1.0000	Unknown	
76	1105212	1.0000	Unknown	
77	1105213	1.0000	Unknown	
78	1105214	5.0000	Unknown	
79	1105215	20.0000	Unknown	- rpt @ # 175 - 1/4
80	1110532-44538	1.0000	Unknown	- air spike - rpt @ # 176
81	CCV	1.0000	Unknown	
82	CCB	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
83	1110710-44175	1.0000	Unknown	
84	1106830-44321	1.0000	Unknown	
85	830 DUP	1.0000	Unknown	
86	830 SPK TV = 0.500	1.0000	Unknown	
87	1109355-44503	1.0000	Unknown	-dir spike - rpt @ # 177
88	1109356	1.0000	Unknown	
89	1111264-44538	1.0000	Unknown	
90	1111265	1.0000	Unknown	
91	1111266	1.0000	Unknown	-dir spike - CPQL
92	1111267	1.0000	Unknown	
93	CCV	1.0000	Unknown	
94	CCB	1.0000	Unknown	
95	LCS	1.0000	Unknown	
96	1096170-43634	1.0000	Unknown	- rpt @ # 178 - 1/5
97	1096171	5.0000	Unknown	- rpt @ # 179 - str.
98	1096173	1.0000	Unknown	
99	1096174	1.0000	Unknown	
100	174 DUP	1.0000	Unknown	
101	174 SPK TV = 0.500	1.0000	Unknown	
102	1096175	1.0000	Unknown	
103	1111763-44538	1.0000	Unknown	
104	1111764	1.0000	Unknown	
105	1111765	1.0000	Unknown	
106	CCV	1.0000	Unknown	
107	CCB	1.0000	Unknown	
108	1106639-44305	1.0000	Unknown	
109	1106640	1.0000	Unknown	
110	1106641	1.0000	Unknown	} sm. neg. peaks - CPQ
111	641 DUP	1.0000	Unknown	
112	641 SPK TV = 0.500	1.0000	Unknown	
113	1106642	1.0000	Unknown	
114	1106643	1.0000	Unknown	
115	1106644	1.0000	Unknown	
116	1106645	1.0000	Unknown	- sm. neg. peak - CPQ
117	1106646	1.0000	Unknown	
118	CCV	1.0000	Unknown	
119	CCB	1.0000	Unknown	
120	LCS	1.0000	Unknown	
121	1106647	1.0000	Unknown	
122	1106648	1.0000	Unknown	
123	1106649	1.0000	Unknown	
124	1106650	1.0000	Unknown	- sm. neg. peak - CPQ 2
125	1112014-44647	1,000.0000	Unknown	
126	1112018	1,000.0000	Unknown	
127	1112019	1,000.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
128	PB SOIL	1.0000	Unknown	1.0g → 100mL
129	LCS-SOIL TV = 50.0	1.0000	Unknown	↓ ↓
130	FILTER BLANK	1.0000	Unknown	
131	CCV	1.0000	Unknown	
132	CCB	1.0000	Unknown	- < PBL for 0.050
133	FILTERED LCS TV = 0.50	1.0000	Unknown	
134	1112111S-44647	20.0000	Unknown	1.0g → 100mL
135	111S DUP	20.0000	Unknown	↓ ↓
136	111S SPK TV = 50.0	20.0000	Unknown	↓ ↓
137	1112112S	20.0000	Unknown	- air spike - rpt @ #180
138	MB R-44666	1.0000	Unknown	25.0g → 250mL
139	1112361-44666	1.0000	Unknown	- air spike - rpt @ #183
140	1112362	1.0000	Unknown	25.0g → 250mL
141	362 DUP	1.0000	Unknown	↓ ↓
142	362 SPK TV = 0.500	1.0000	Unknown	↓ ↓
143	CCV	1.0000	Unknown	
144	CCB	1.0000	Unknown	tray ends here
145	LCS	1.0000	Unknown	- no recovery - repour
146	1112363	1.0000	Unknown	+ repeat tray from
147	1112364	1.0000	Unknown	# 143
148	1112365	1.0000	Unknown	
149	1112486-44650	1.0000	Unknown	
150	1112487	1.0000	Unknown	
151	1112488	1.0000	Unknown	
152	1112489	1.0000	Unknown	
153	1109708-44538	1.0000	Unknown	
154	1111727-44621	1.0000	Unknown	
155	1105207-44175	1.0000	Unknown	
156	CCV	1.0000	Unknown	
157	CCB	1.0000	Unknown	
158	1110578 RPT	1.0000	Unknown	
159	1111042 RPT	1.0000	Unknown	
160	1111047 RPT	1.0000	Unknown	
161	1111984-44621	1.0000	Unknown	
162	1111983 DUP RPT	1.0000	Unknown	
163	CRDL - 0.010 RPT	1.0000	Unknown	
164	1111985 RPT	1.0000	Unknown	
165	1093541 RPT 1/10	10.0000	Unknown	
166	541 DUP RPT 1/10	10.0000	Unknown	
167	541 SPK RPT 1/10	10.0000	Unknown	
168	CCV	1.0000	Unknown	
169	CCB	1.0000	Unknown	
170	LCS	1.0000	Unknown	
171	1093543 RPT 1/20	20.0000	Unknown	
172	1105206 RPT	1.0000	Unknown	

Creator: NMEAD
 Creation Date: Jun 27, 2008 13:39:28
 Last Modified: Jun 27, 2008 13:39:28
 Description: QC 8000 350.1 Ammonia - RUN LOG - 080627A3

Cup #	Sample ID	Manual Dilution	Sample Type	
143	CCV	1.0000	Unknown	
144	CCB	1.0000	Unknown	
145	LCS	1.0000	Unknown	
146	1112363 - sm, neg, peak - <PQL	1.0000	Unknown	25.0g → 250mL
147	1112364 - sm, neg, peak - <PQL	1.0000	Unknown	↓ ↓
148	1112365 - sm, neg, peak - <PQL	1.0000	Unknown	
149	1112486-44650	1.0000	Unknown	
150	1112487	1.0000	Unknown	
151	1112488	1.0000	Unknown	- rpt @ # 184-1/10
152	1112489	1.0000	Unknown	
153	1109708-44538	1.0000	Unknown	
154	1111727-44621	1.0000	Unknown	
155	1105207-44175	1.0000	Unknown	
156	CCV	1.0000	Unknown	
157	CCB	1.0000	Unknown	
158	1110578 RPT	1.0000	Unknown	
159	1111042 RPT	1.0000	Unknown	
160	1111047 RPT	1.0000	Unknown	
161	1111984-44621	1.0000	Unknown	
162	1111983 DUP RPT	1.0000	Unknown	
163	CRDL - 0.010 RPT	1.0000	Unknown	
164	1111985 RPT	1.0000	Unknown	
165	1093541 RPT 1/10	10.0000	Unknown	
166	541 DUP RPT 1/10	10.0000	Unknown	
167	541 SPK RPT 1/10	10.0000	Unknown	
168	CCV	1.0000	Unknown	
169	CCB	1.0000	Unknown	
170	LCS	1.0000	Unknown	
171	1093543 RPT 1/20	20.0000	Unknown	
172	1105206 RPT	1.0000	Unknown	
173	206 DUP RPT	1.0000	Unknown	
174	1105209 RPT STR	1.0000	Unknown	
175	1105215 RPT 1/4	4.0000	Unknown	
176	1110532 RPT	1.0000	Unknown	
177	1109355 RPT	1.0000	Unknown	
178	1096170 RPT 1/5	5.0000	Unknown	
179	1096171 RPT STR	1.0000	Unknown	
180	1112112S RPT 1/20	20.0000	Unknown	- 1.0g → 100mL
181	CCV	1.0000	Unknown	
182	CCB	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
183	1112361 RPT	1.0000	Unknown	25.0g → 250mL
184	1112488 RPT 1/10	10.0000	Unknown	
185	CCV	1.0000	Unknown	
186	CCB	1.0000	Unknown	

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 10:50:13
 DATA FILENAME: C:\OMNION\DATA\080627A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0806270A.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	27 Jun 2008	10:50:16	1	1.7018	1.0	1.00
2	ICB	27 Jun 2008	10:51:15	1	-0.0000	1.0	1.00
3	LCS TV= 0.500	27 Jun 2008	10:52:13	1	0.4846	1.0	1.00
4	CRDL 0.050	27 Jun 2008	10:53:11	1	0.0569	1.0	1.00
5	CRDL 0.010	27 Jun 2008	10:54:09	1	0.0225	1.0	1.00
6	CCV	27 Jun 2008	10:55:07	1	1.6938	1.0	1.00
7	CCB	27 Jun 2008	10:56:06	1	-0.0000	1.0	1.00
8	1110578-44252	27 Jun 2008	10:57:04	1	0.0251	1.0	1.00
9	578 DUP	27 Jun 2008	10:58:01	1	0.0281	1.0	1.00
10	578 SPK TV= 0.500	27 Jun 2008	10:58:58	1	0.4938	1.0	1.00
11	1110579	27 Jun 2008	10:59:55	1	0.0682	1.0	1.00
12	1110580	27 Jun 2008	11:00:52	1	0.0486	1.0	1.00
13	1111026-44609	27 Jun 2008	11:01:49	1	0.0574	1.0	1.00
14	1111031	27 Jun 2008	11:02:46	1	0.1179	1.0	1.00
15	1111034	27 Jun 2008	11:03:43	1	0.1043	1.0	1.00
16	1111035	27 Jun 2008	11:04:42	1	0.0572	1.0	1.00
17	1111036	27 Jun 2008	11:05:41	1	0.0672	1.0	1.00
18	CCV	27 Jun 2008	11:06:39	1	1.6760	1.0	1.00
19	CCB	27 Jun 2008	11:07:37	1	0.0140	1.0	1.00
20	LCS	27 Jun 2008	11:08:35	1	0.4773	1.0	1.00
21	1111037	27 Jun 2008	11:09:33	1	0.0875	1.0	1.00
22	1111038	27 Jun 2008	11:10:31	1	0.0069	1.0	1.00
23	1111039	27 Jun 2008	11:11:29	1	0.0130	1.0	1.00
24	1111040	27 Jun 2008	11:12:27	1	0.0229	1.0	1.00
25	040 DUP	27 Jun 2008	11:13:25	1	0.0199	1.0	1.00

high-loaded 0.020 STD?
 rpt @ #54

air spike - rpt @ #158

need repeat
 all associated
 data
 CK 4/30/08

failed ←

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 10:50:13
 DATA FILENAME: C:\OMNION\DATA\080627A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0806270A.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	040 SPK TV= 0.500	27 Jun 2008	11:14:22	1	0.4812	1.0	1.00
27	1111041	27 Jun 2008	11:15:19	1	0.0266	1.0	1.00
28	1111042	27 Jun 2008	11:16:16	1	0.0192	1.0	1.00
29	1111043	27 Jun 2008	11:17:13	1	0.0190	1.0	1.00
30	1111044	27 Jun 2008	11:18:10	1	0.0033	1.0	1.00
31	CCV	27 Jun 2008	11:19:09	1	1.6961	1.0	1.00
32	CCB	27 Jun 2008	11:20:09	1	0.0039	1.0	1.00
33	1111045	27 Jun 2008	11:21:07	1	0.0176	1.0	1.00
34	1111046	27 Jun 2008	11:22:06	1	0.0270	1.0	1.00
35	1111047	27 Jun 2008	11:23:03	1	0.0229	1.0	1.00
36	1111048	27 Jun 2008	11:24:01	1	-0.0000	1.0	1.00
37	1111407-44621	27 Jun 2008	11:24:59	1	0.0521	1.0	1.00
38	1111638	27 Jun 2008	11:25:58	1	0.0156	1.0	1.00
39	1111639	27 Jun 2008	11:26:56	1	0.0529	1.0	1.00
40	1111640	27 Jun 2008	11:27:54	1	0.1354	1.0	1.00
41	1111726	27 Jun 2008	11:28:51	1	0.1032	1.0	1.00
42	726 DUP	27 Jun 2008	11:29:48	1	0.1079	1.0	1.00
43	CCV	27 Jun 2008	11:30:45	1	1.7150	1.0	1.00
44	CCB	27 Jun 2008	11:31:43	1	0.0032	1.0	1.00
45	LCS	27 Jun 2008	11:32:40	1	0.4906	1.0	1.00
46	726 SPK TV= 0.500	27 Jun 2008	11:33:39	1	0.5673	1.0	1.00
47	1111897	27 Jun 2008	11:34:38	1	0.0283	1.0	1.00
48	1111898	27 Jun 2008	11:36:37	1	0.0406	1.0	1.00
49	1111899	27 Jun 2008	11:36:37	1	0.1298	1.0	1.00
50	1111900	27 Jun 2008	11:37:35	1	0.0016	1.0	1.00

Repeat due to failed CCB

air spike - rpt @ # 159

air spike - rpt @ # 160

tray ends here - next CCB fails high

nmbl 2/08

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 10:50:13
 DATA FILENAME: C:\OMNION\DATA\080627A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0806270A.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	1111983	27 Jun 2008	11:38:33	1	0.0090	1.0	1.00
52	983 DUP	27 Jun 2008	11:39:31	1	0.0086	1.0	1.00
53	983 SPK TV= 0.500	27 Jun 2008	11:40:29	1	0.4868	1.0	1.00
54	CRDL - 0.0100 RPT	27 Jun 2008	11:41:27	1	0.0178	1.0	1.00
55	1111985	27 Jun 2008	11:42:26	1	0.0802	1.0	1.00
56	CCV	27 Jun 2008	11:43:24	1	1.7141	1.0	1.00
57	CCB	27 Jun 2008	11:44:22	1	0.0479	1.0	1.00
58	1111986	27 Jun 2008	11:45:19	1	0.0055	1.0	1.00
59	1111987	27 Jun 2008	11:46:16	1	0.0172	1.0	1.00

nm blank
 -high-repour rerun
 all samples from
 #43

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 11:51:06
 DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A2.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
43	CCV	27 Jun 2008	11:51:08	1	1.7173	1.0	1.00
44	CCB	27 Jun 2008	11:52:05	1	0.0012	1.0	1.00
45	LCS	27 Jun 2008	11:53:02	1	0.4922	1.0	1.00
46	726 SPK TV= 0.500	27 Jun 2008	11:54:01	1	0.5699	1.0	1.00
47	1111897	27 Jun 2008	11:55:01	1	0.0287	1.0	1.00
48	1111898	27 Jun 2008	11:56:00	1	0.0103	1.0	1.00
49	1111899	27 Jun 2008	11:56:59	1	0.1321	1.0	1.00
50	1111900	27 Jun 2008	11:57:57	1	0.0023	1.0	1.00

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 11:51:06
 DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A2.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	1111983	27 Jun 2008	11:58:55	1	0.0101	1.0	1.00
52	983 DUP	27 Jun 2008	11:59:53	1	0.0084	1.0	1.00
53	983 SPK TV= 0.500	27 Jun 2008	12:00:51	1	0.4897	1.0	1.00
54	CRDL - 0.0100 RPT	27 Jun 2008	12:01:50	1	0.0180	1.0	1.00
55	1111985	27 Jun 2008	12:02:48	1	0.0791	1.0	1.00
56	CCV	27 Jun 2008	12:03:46	1	1.7027	1.0	1.00
57	CCB	27 Jun 2008	12:04:43	1	-0.0000	1.0	1.00
58	1111986	27 Jun 2008	12:05:40	1	0.0064	1.0	1.00
59	1111987	27 Jun 2008	12:06:37	1	0.0156	1.0	1.00
60	1108907-44491	27 Jun 2008	12:07:34	1	0.0416	1.0	1.00
61	1093541-43442	27 Jun 2008	12:08:33	1	9.5414	1.0	1.00
62	541 DUP	27 Jun 2008	12:09:33	1	9.4367	1.0	1.00
63	541 SPK TV= 0.500	27 Jun 2008	12:10:32	1	9.8209	1.0	1.00
64	1093542	27 Jun 2008	12:11:30	1	1.1410	1.0	1.00
65	1093543	27 Jun 2008	12:12:29	1	20.7351	10.0	1.00
66	1105206-44175	27 Jun 2008	12:13:28	1	0.1120	1.0	1.00
67	206 DUP	27 Jun 2008	12:14:26	1	0.1100	1.0	1.00
68	CCV	27 Jun 2008	12:15:24	1	1.6925	1.0	1.00
69	CCB	27 Jun 2008	12:16:22	1	-0.0000	1.0	1.00
70	LCS	27 Jun 2008	12:17:20	1	0.4844	1.0	1.00
71	206 SPK TV= 0.500	27 Jun 2008	12:18:18	1	0.4799	1.0	1.00
72	1105208	27 Jun 2008	12:19:17	1	0.1880	1.0	1.00
73	1105209	27 Jun 2008	12:20:15	1	1.8976	4.0	1.00
74	1105210	27 Jun 2008	12:21:12	1	0.1979	1.0	1.00
75	1105211	27 Jun 2008	12:22:09	1	0.0219	1.0	1.00

- air spike - rpt @ # 162

- air spike - rpt @ # 163

- air spike - rpt @ # 164

} rpt @ # 165 → 167 - 1/10

- rpt @ # 171 - 1/20

} air - rpt @ # 172, 173

- rpt @ # 174 - str

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 11:51:06
 DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A2.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	1105212	27 Jun 2008	12:23:08	1	0.2496	1.0	1.00
77	1105213	27 Jun 2008	12:24:07	1	0.7451	1.0	1.00
78	1105214	27 Jun 2008	12:25:06	1	5.2922	5.0	1.00
79	1105215	27 Jun 2008	12:26:06	1	4.0736	20.0	1.00
80	1110532-44538	27 Jun 2008	12:27:05	1	0.1319	1.0	1.00
81	CCV	27 Jun 2008	12:28:04	1	1.6786	1.0	1.00
82	CCB	27 Jun 2008	12:29:02	1	0.0025	1.0	1.00
83	1110710-44175	27 Jun 2008	12:30:00	1	0.1813	1.0	1.00
84	1106830-44321	27 Jun 2008	12:30:58	1	1.0774	1.0	1.00
85	830 DUP	27 Jun 2008	12:31:57	1	1.0690	1.0	1.00
86	830 SPK TV= 0.500	27 Jun 2008	12:32:55	1	1.5331	1.0	1.00
87	1109355-44503	27 Jun 2008	12:33:53	1	0.0605	1.0	1.00
88	1109356	27 Jun 2008	12:34:51	1	0.4841	1.0	1.00
89	1111264-44538	27 Jun 2008	12:35:48	1	0.6463	1.0	1.00
90	1111265	27 Jun 2008	12:36:45	1	0.0229	1.0	1.00
91	1111266	27 Jun 2008	12:37:45	1	0.0338	1.0	1.00
92	1111267	27 Jun 2008	12:38:44	1	0.0737	1.0	1.00
93	CCV	27 Jun 2008	12:39:43	1	1.6929	1.0	1.00
94	CCB	27 Jun 2008	12:40:42	1	0.0021	1.0	1.00
95	LCS	27 Jun 2008	12:41:41	1	0.4899	1.0	1.00
96	1096170-43634	27 Jun 2008	12:42:41	1	7.5863	1.0	1.00
97	1096171	27 Jun 2008	12:43:40	1	0.2431	5.0	1.00
98	1096173	27 Jun 2008	12:44:39	1	1.6043	1.0	1.00
99	1096174	27 Jun 2008	12:45:37	1	0.5798	1.0	1.00
100	174 DUP	27 Jun 2008	12:46:35	1	0.5768	1.0	1.00

- pt@ #175 - 1/4
 - air spike - pt@ #176

- air spike - pt@ #177

- sm. air spike < PQL

- pt@ #178 - 1/5
 - pt@ #179 - str.

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 11:51:06
 DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A2.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	174 SPK TV= 0.500	27 Jun 2008	12:47:33	1	1.0139	1.0	1.00
102	1096175	27 Jun 2008	12:48:31	1	0.0166	1.0	1.00
103	1111763-44538	27 Jun 2008	12:49:30	1	0.1541	1.0	1.00
104	1111764	27 Jun 2008	12:50:28	1	0.4761	1.0	1.00
105	1111765	27 Jun 2008	12:51:26	1	0.0295	1.0	1.00
106	CCV	27 Jun 2008	12:52:25	1	1.6822	1.0	1.00
107	CCB	27 Jun 2008	12:53:24	1	0.0105	1.0	1.00 DK 0.0500 PQL
108	1106639-44305	27 Jun 2008	12:54:23	1	0.0168	1.0	1.00
109	1106640	27 Jun 2008	12:55:23	1	0.5284	1.0	1.00
110	1106641	27 Jun 2008	12:56:22	1	0.0085	1.0	1.00 } sm. neg. peaks - < PQL
111	641 DUP	27 Jun 2008	12:57:21	1	0.0094	1.0	1.00
112	641 SPK TV= 0.500	27 Jun 2008	12:58:20	1	0.3024	1.0	1.00
113	1106642	27 Jun 2008	12:59:19	1	0.0102	1.0	1.00
114	1106643	27 Jun 2008	13:00:18	1	0.5237	1.0	1.00
115	1106644	27 Jun 2008	13:01:17	1	0.8444	1.0	1.00
116	1106645	27 Jun 2008	13:02:15	1	0.0079	1.0	1.00 - sm. neg. peak - < PQL
117	1106646	27 Jun 2008	13:03:13	1	0.1730	1.0	1.00
118	CCV	27 Jun 2008	13:04:11	1	1.6973	1.0	1.00
119	CCB	27 Jun 2008	13:05:09	1	0.0024	1.0	1.00
120	LCS	27 Jun 2008	13:06:07	1	0.4849	1.0	1.00
121	1106647	27 Jun 2008	13:07:08	1	1.2239	1.0	1.00
122	1106648	27 Jun 2008	13:08:08	1	0.0505	1.0	1.00
123	1106649	27 Jun 2008	13:09:07	1	0.0084	1.0	1.00
124	1106650	27 Jun 2008	13:10:06	1	0.0061	1.0	1.00 - sm. neg. peak - < PQL
125	1112014-44647	27 Jun 2008	13:11:05	1	1029.8962	1000.0	1.00

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 11:51:06
 DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A2.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	1112018	27 Jun 2008	13:12:05	1	1529.5848	1000.0	1.00
127	1112019	27 Jun 2008	13:13:04	1	1771.7091	1000.0	1.00
128	PB SOIL	27 Jun 2008	13:14:03	1	0.0249	1.0	1.00 = < 5.00
129	LCS-SOIL TV= 50.0	27 Jun 2008	13:15:02	1	0.4840	1.0	1.00 = 48.40
130	FILTER BLANK	27 Jun 2008	13:16:01	1	0.0041	1.0	1.00
131	CCV	27 Jun 2008	13:16:59	1	1.7042	1.0	1.00
132	CCB	27 Jun 2008	13:17:58	1	0.0142	1.0	1.00 - < PQL for 0.050
133	FILTERED LCS TV= 0.50	27 Jun 2008	13:18:56	1	0.4920	1.0	1.00
134	1112111S-44647	27 Jun 2008	13:19:54	1	16.5839	20.0	1.00 = 1658.39
135	111S DUP	27 Jun 2008	13:20:52	1	16.5830	20.0	1.00 = 1658.30
136	111S SPK TV= 50.0	27 Jun 2008	13:21:52	1	26.3748	20.0	1.00 = 2637.48
137	1112112S	27 Jun 2008	13:22:53	1	21.4132	20.0	1.00 - air spike - rpt @ # 183
138	MB R-44666	27 Jun 2008	13:23:53	1	0.0071	1.0	1.00 = 5.00 0.500u
139	1112361-44666	27 Jun 2008	13:24:52	1	0.0026	1.0	1.00 = 5.00 - air spike - rpt
140	1112362	27 Jun 2008	13:25:52	1	0.0051	1.0	1.00 = 5.00 0.500u #183
141	362 DUP	27 Jun 2008	13:26:51	1	0.0443	1.0	1.00 = 5.00 0.500u
142	362 SPK TV= 0.500	27 Jun 2008	13:27:50	1	0.4972	1.0	1.00 = 50.72 4.972
143	CCV	27 Jun 2008	13:28:49	1	1.6976	1.0	1.00
144	CCB	27 Jun 2008	13:29:48	1	0.0059	1.0	1.00 tray ends here
145	LCS	27 Jun 2008	13:30:47	1	0.0003	1.0	1.00 - no recovery -
146	1112363	27 Jun 2008	13:31:47	1	0.0052	1.0	1.00 repour + repair
147	1112364	27 Jun 2008	13:32:45	1	-0.0000	1.0	1.00 tray from #143
148	1112365	27 Jun 2008	13:33:43	1	0.0099	1.0	1.00
149	1112486-44650	27 Jun 2008	13:34:41	1	0.0031	1.0	1.00
150	1112487	27 Jun 2008	13:35:39	1	0.0060	1.0	1.00

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 13:39:43
 DATA FILENAME: C:\OMNION\DATA\080627A3.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A3.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
143	CCV	27 Jun 2008	13:39:47	1	1.6862	1.0	1.00
144	CCB	27 Jun 2008	13:40:45	1	0.0054	1.0	1.00
145	LCS	27 Jun 2008	13:41:45	1	0.4873	1.0	1.00
146	1112363	27 Jun 2008	13:42:44	1	-0.0000	1.0	1.00
147	1112364	27 Jun 2008	13:43:42	1	0.0003	1.0	1.00
148	1112365	27 Jun 2008	13:44:40	1	0.0099	1.0	1.00
149	1112486-44650	27 Jun 2008	13:45:38	1	0.0035	1.0	1.00
150	1112487	27 Jun 2008	13:46:36	1	0.0068	1.0	1.00

< 0.500 CL 6/30/08
 $= < 5.00$
 $= < 5.00$
 $= < 5.00$
 } sm, neg. peaks
 } < PQL

10 → 250ml
 ✓

500 25g → 250ml

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 13:39:43
 DATA FILENAME: C:\OMNION\DATA\080627A3.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A3.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	1112488	27 Jun 2008	13:47:37	1	9.0690	1.0	1.00
152	1112489	27 Jun 2008	13:48:37	1	0.0097	1.0	1.00
153	1109708-44538	27 Jun 2008	13:49:37	1	0.0208	1.0	1.00
154	1111727-44621	27 Jun 2008	13:50:38	1	0.0447	1.0	1.00
155	1105207-44175	27 Jun 2008	13:51:37	1	0.6987	1.0	1.00
156	CCV	27 Jun 2008	13:52:36	1	1.6810	1.0	1.00
157	CCB	27 Jun 2008	13:53:35	1	0.0067	1.0	1.00
158	1110578 RPT	27 Jun 2008	13:54:35	1	0.0256	1.0	1.00
159	1111042 RPT	27 Jun 2008	13:55:34	1	0.0218	1.0	1.00
160	1111047 RPT	27 Jun 2008	13:56:33	1	0.0232	1.0	1.00
161	1111984-44621	27 Jun 2008	13:57:32	1	0.0175	1.0	1.00
162	1111983 DUP RPT	27 Jun 2008	13:58:31	1	0.0078	1.0	1.00
163	CRDL - 0.010 RPT	27 Jun 2008	13:59:30	1	0.0137	1.0	1.00
164	1111985 RPT	27 Jun 2008	14:00:28	1	0.0820	1.0	1.00
165	1093541 RPT 1/10	27 Jun 2008	14:01:26	1	12.2079	10.0	1.00
166	541 DUP RPT 1/10	27 Jun 2008	14:02:26	1	12.1388	10.0	1.00
167	541 SPK RPT 1/10	27 Jun 2008	14:03:27	1	16.1856	10.0	1.00
168	CCV	27 Jun 2008	14:04:27	1	1.7171	1.0	1.00
169	CCB	27 Jun 2008	14:05:27	1	-0.0000	1.0	1.00
170	LCS	27 Jun 2008	14:06:26	1	0.4895	1.0	1.00
171	1093543 RPT 1/20	27 Jun 2008	14:07:26	1	22.6764	20.0	1.00
172	1105206 RPT	27 Jun 2008	14:08:25	1	0.1184	1.0	1.00
173	206 DUP RPT	27 Jun 2008	14:09:24	1	0.1162	1.0	1.00
174	1105209 RPT STR	27 Jun 2008	14:10:23	1	1.4275	1.0	1.00
175	1105215 RPT 1/4	27 Jun 2008	14:11:22	1	3.5909	4.0	1.00

- p + @ # 184-1/10

- okay

OPERATOR: NMEAD
 ACQ. TIME: Jun 27, 2008 13:39:43
 DATA FILENAME: C:\OMNION\DATA\080627A3.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080627A3.TRA

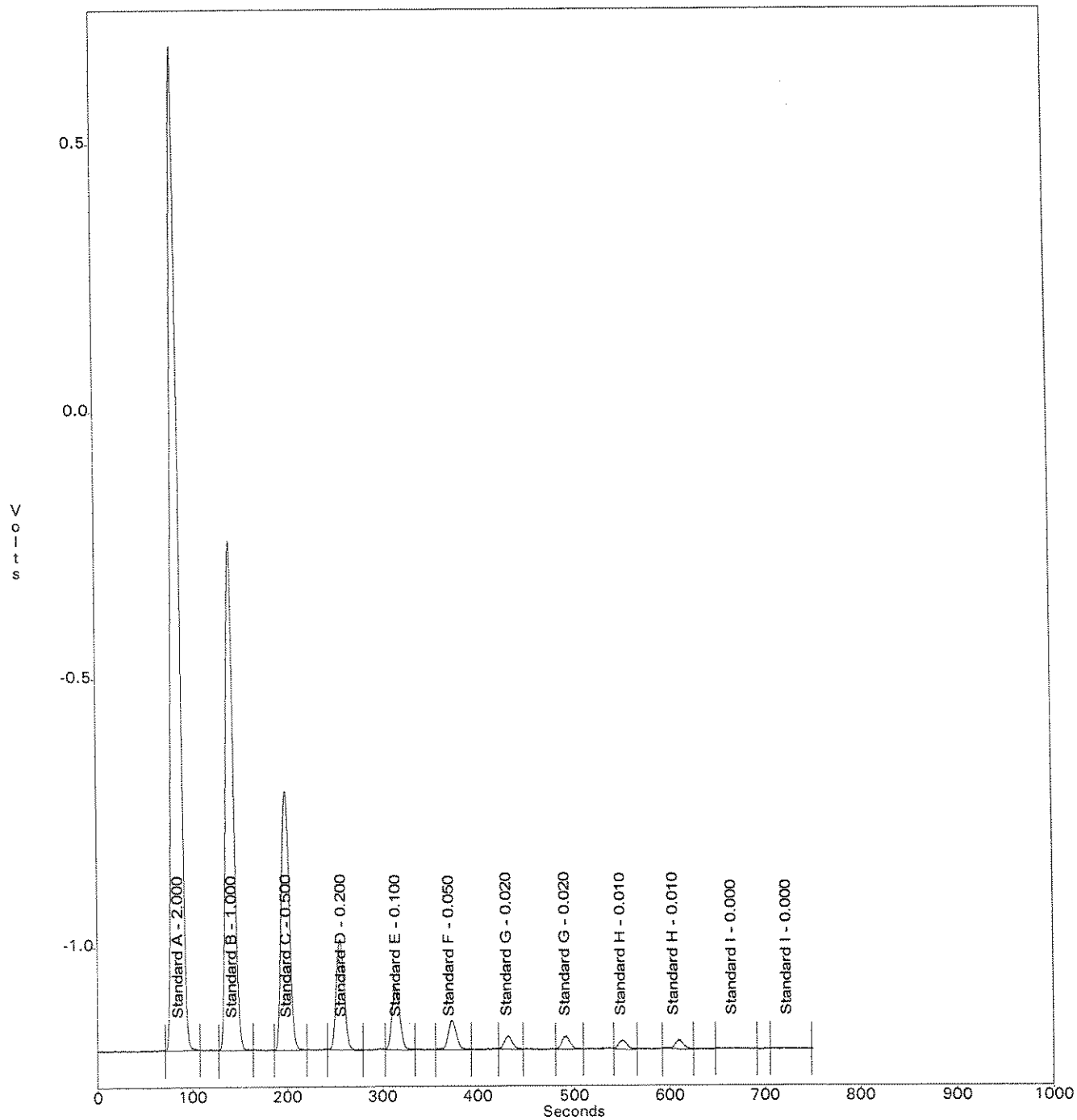
Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 176 to 200

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
176	1110532 RPT	27 Jun 2008	14:12:22	1	0.1190	1.0	1.00
177	1109355 RPT	27 Jun 2008	14:13:21	1	0.0572	1.0	1.00
178	1096170 RPT 1/5	27 Jun 2008	14:14:20	1	8.4101	5.0	1.00
179	1096171 RPT STR	27 Jun 2008	14:15:18	1	0.1367	1.0	1.00
g → 100 mL 180	1112112S RPT 1/20	27 Jun 2008	14:16:16	1	21.2707	20.0	1.00 = 2127.07
181	CCV	27 Jun 2008	14:17:17	1	1.7212	1.0	1.00
182	CCB	27 Jun 2008	14:18:17	1	0.0015	1.0	1.00
5.0 → 25 mL 183	1112361 RPT	27 Jun 2008	14:19:17	1	0.0017	1.0	1.00 = $\frac{0.0017 \times 5}{1} < 0.500$
184	1112488 RPT 1/10	27 Jun 2008	14:20:17	1	10.1848	10.0	1.00
185	CCV	27 Jun 2008	14:21:18	1	1.7022	1.0	1.00
186	CCB	27 Jun 2008	14:22:18	1	-0.0000	1.0	1.00

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 10:35:16
C:\OMNION\DATA\0806270A.FDT
C:\OMNION\TRAYS\0806270A.TRA

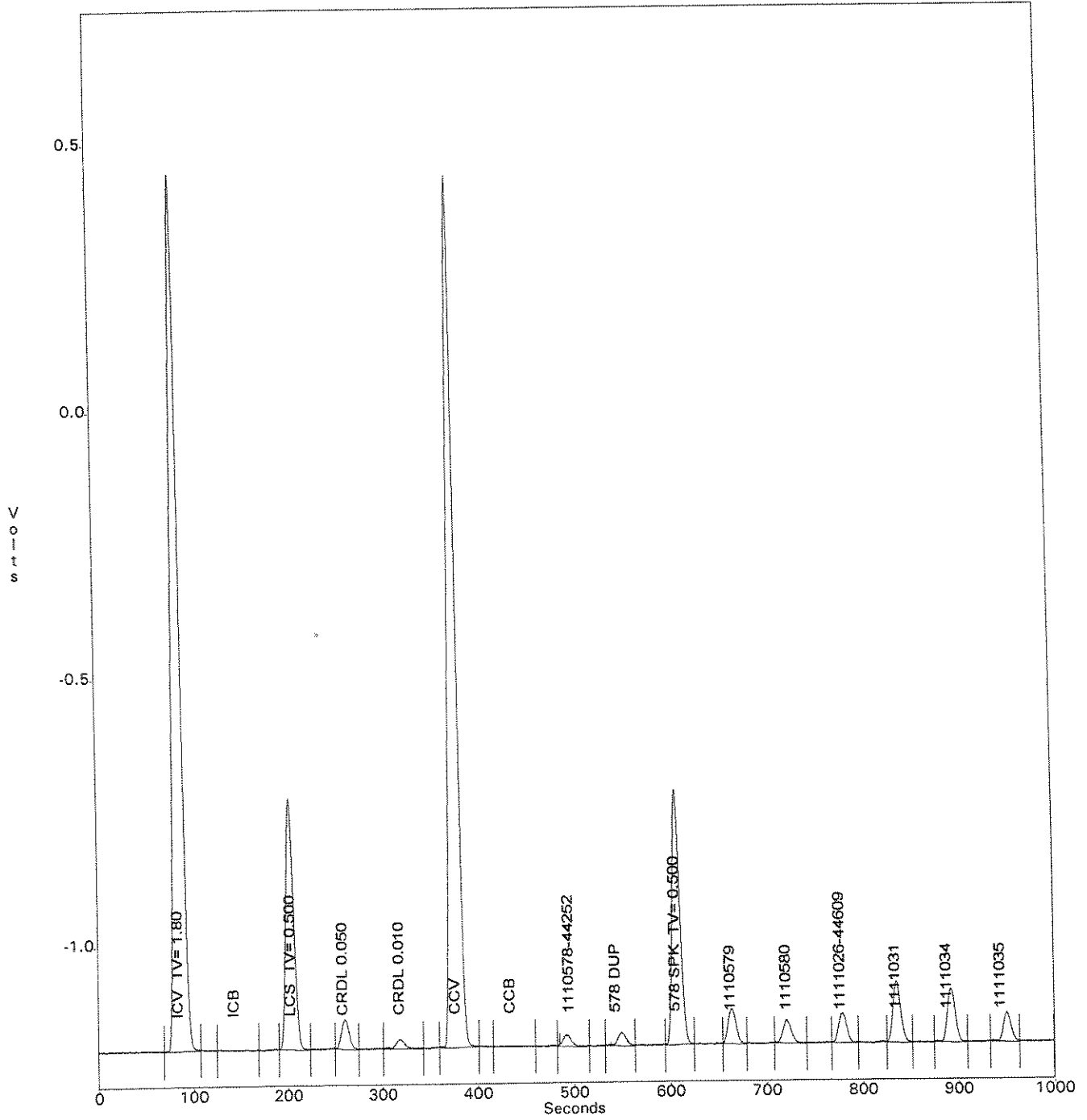
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 27, 2008 10:50:13
C:\OMNION\DATA\080627A1.FDT
C:\OMNION\TRAYS\0806270A.TRA

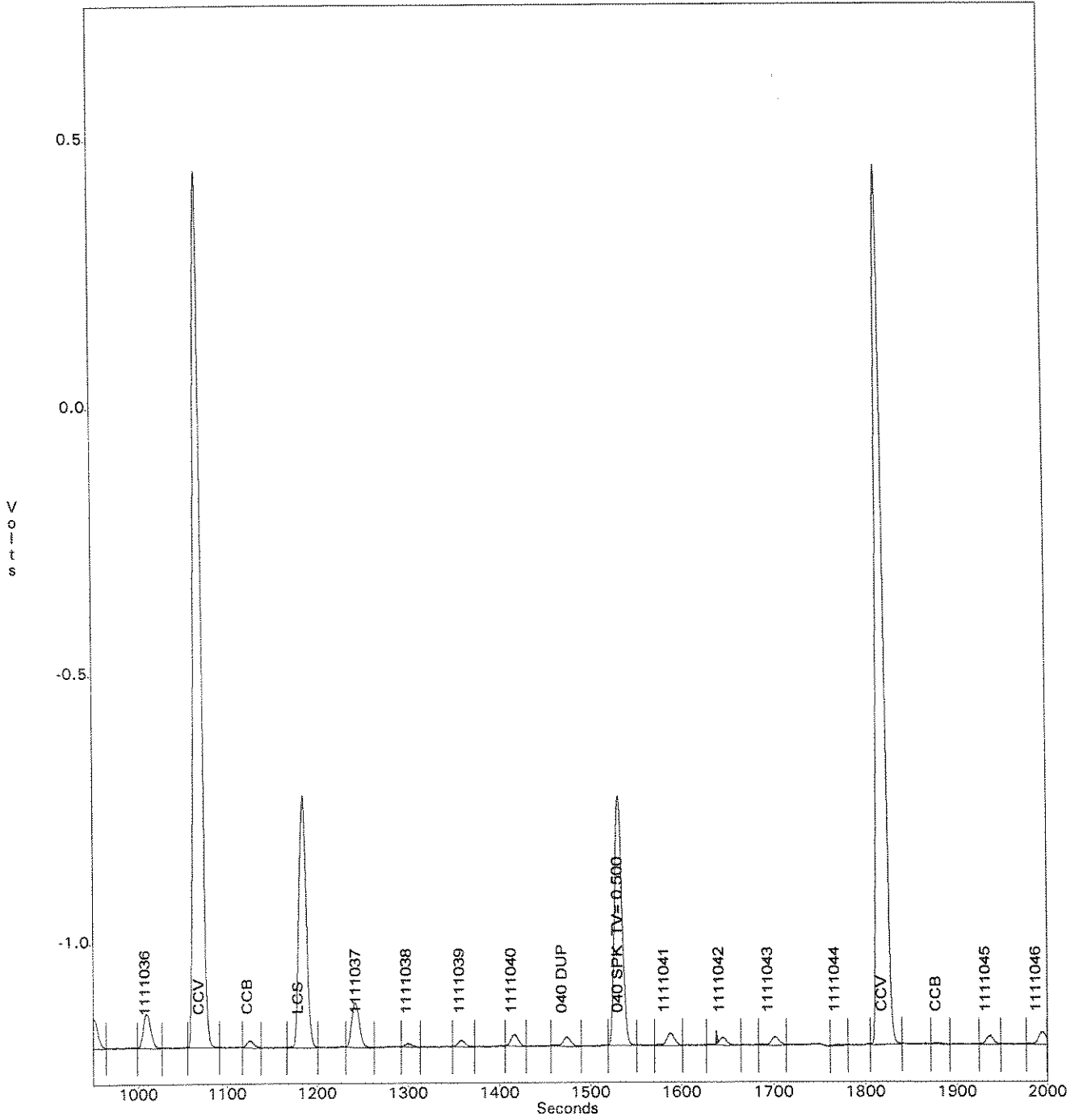
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

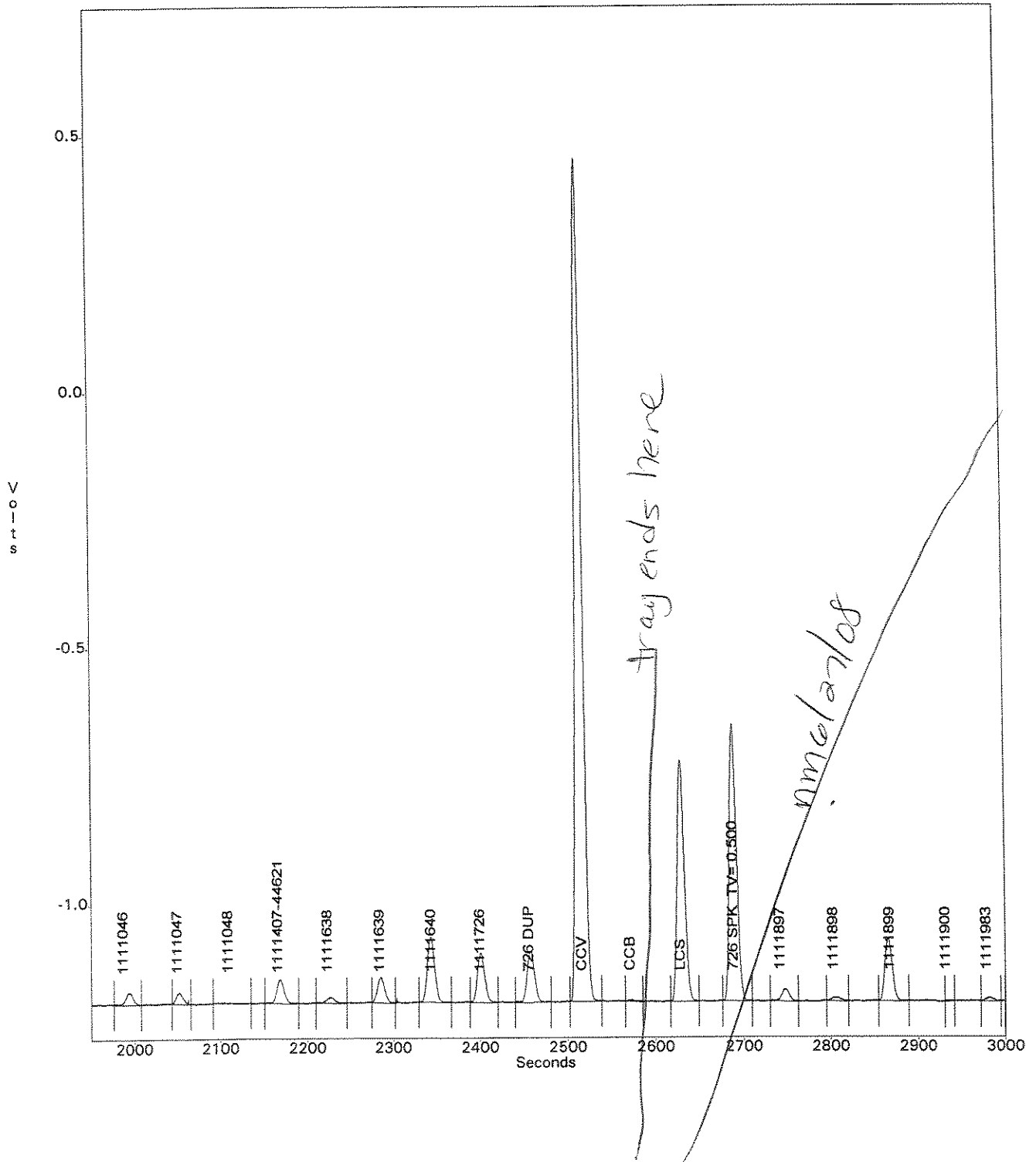
NMEAD
Jun 27, 2008 10:50:13
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C:\OMNION\TRAYS\0806270A.TRA

Channel 1 - QC 8000 350.1 Ammonia



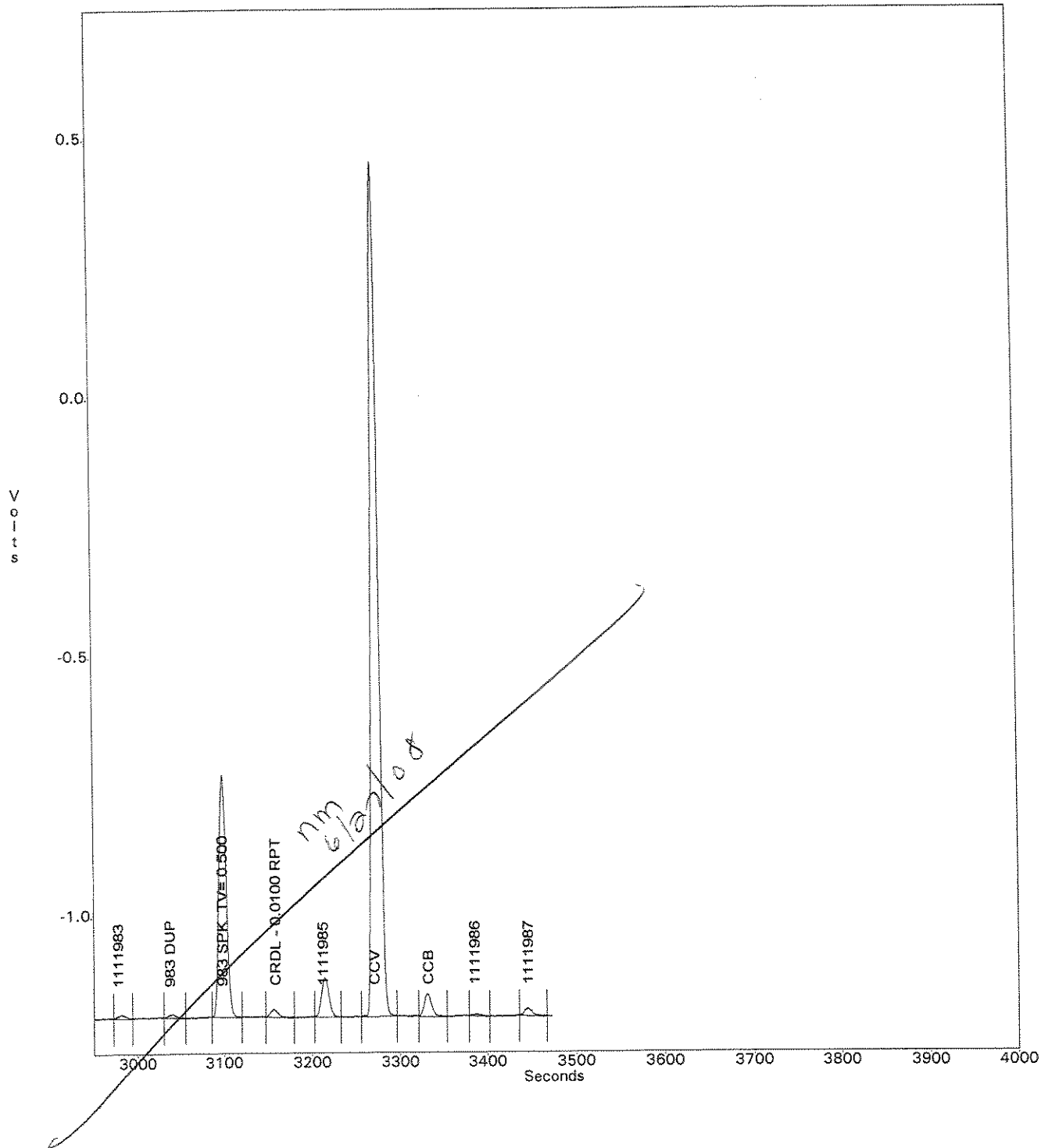
OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 10:50:13
DATA FILENAME: C:\OMNION\DATA\080627A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0806270A.TRA

Channel 1 - QC 8000 350.1 Ammonia



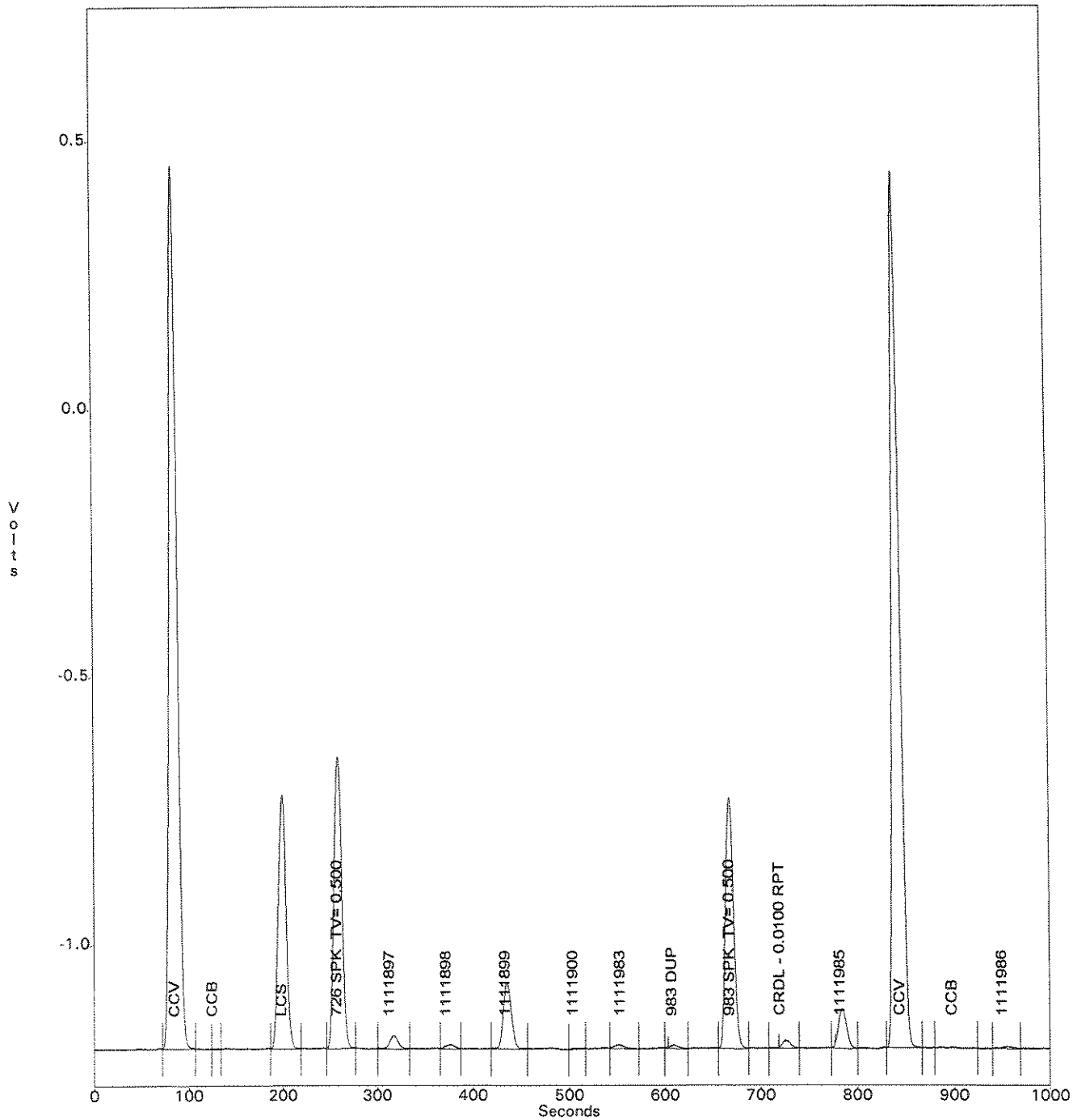
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Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 11:51:06
DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080627A2.TRA

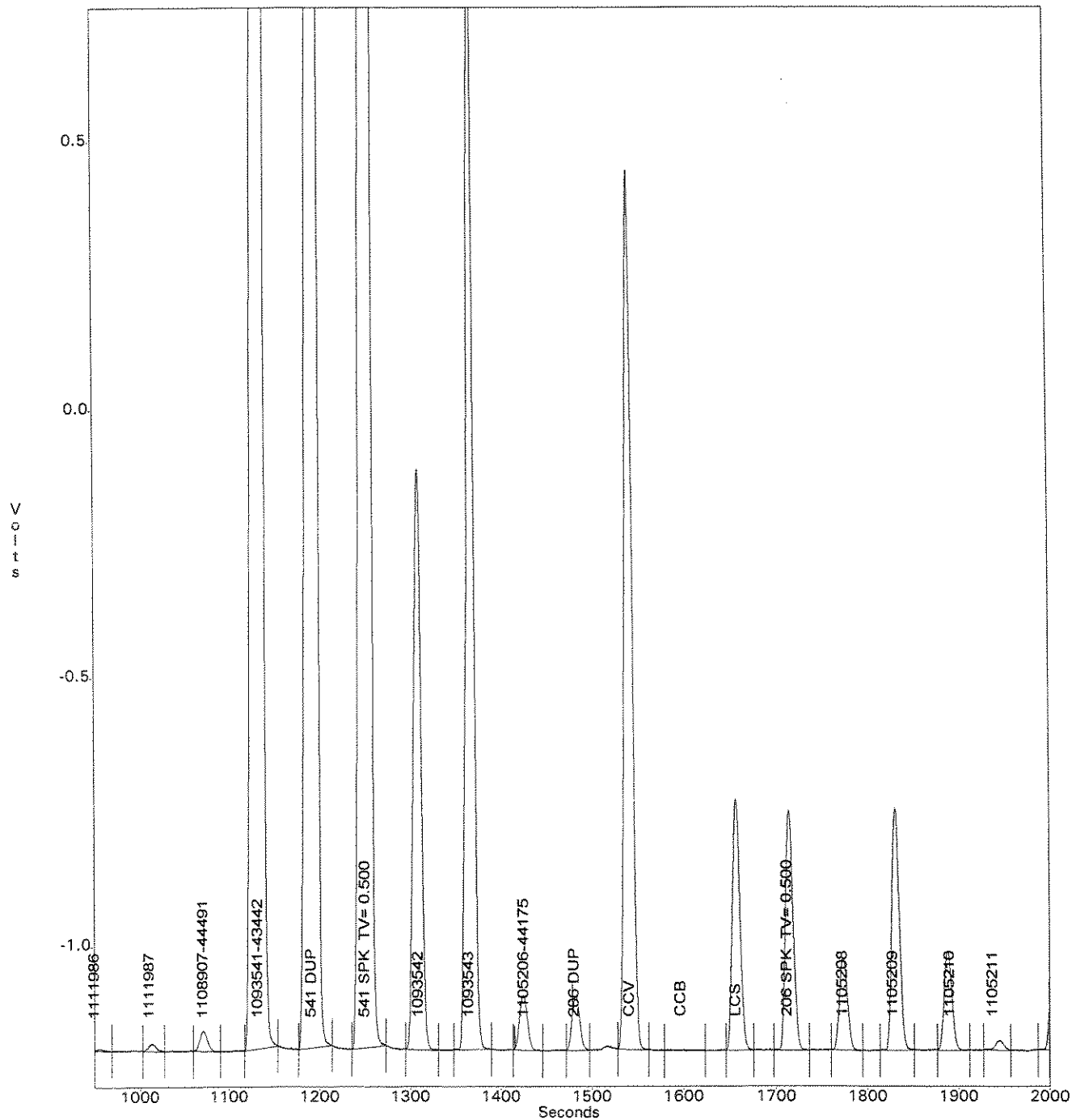
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

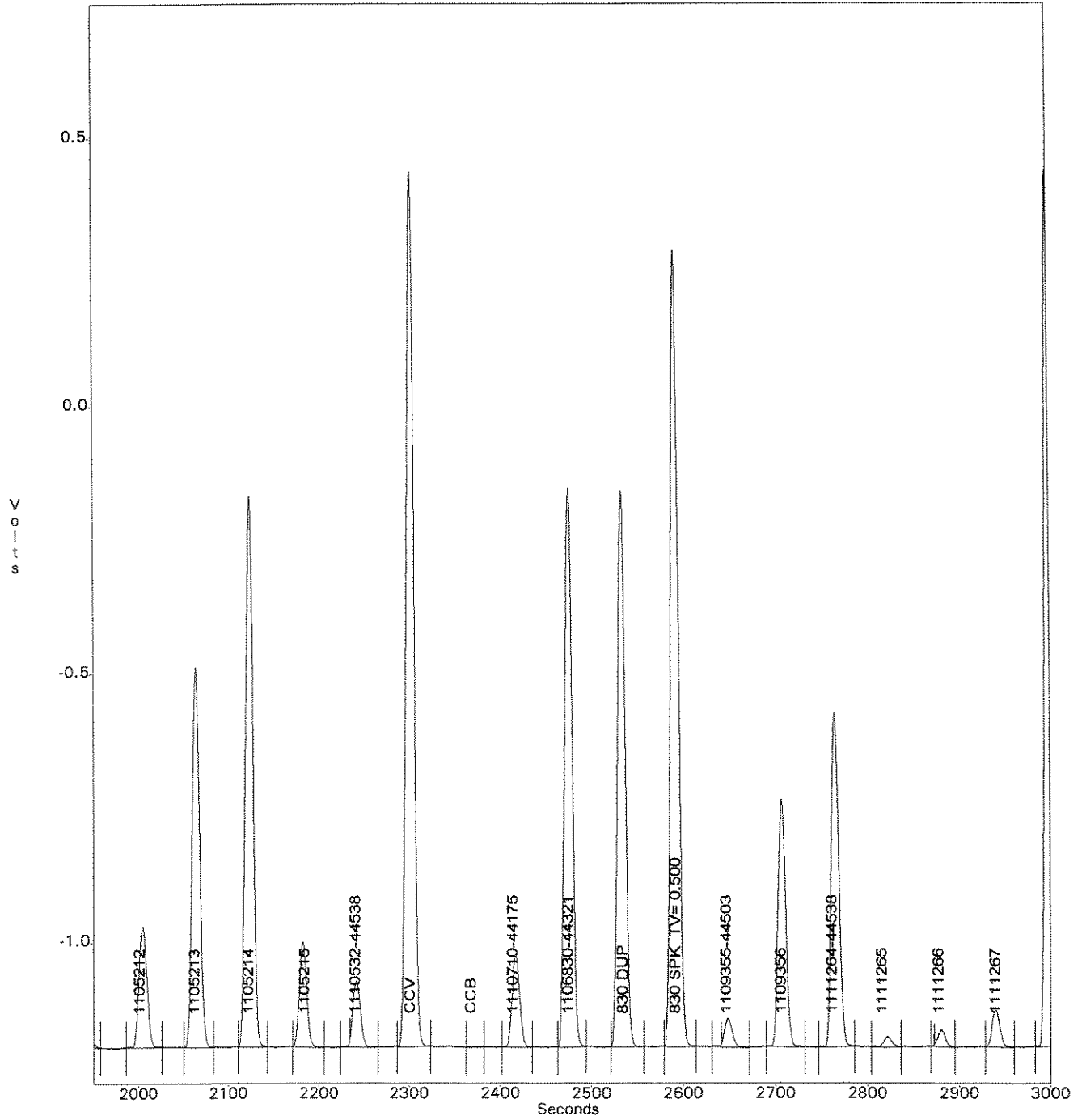
NMEAD
Jun 27, 2008 11:51:06
C:\OMNION\DATA\080627A2.FDT
C:\OMNION\TRAYS\080627A2.TRA

Channel 1 - QC 8000 350.1 Ammonia



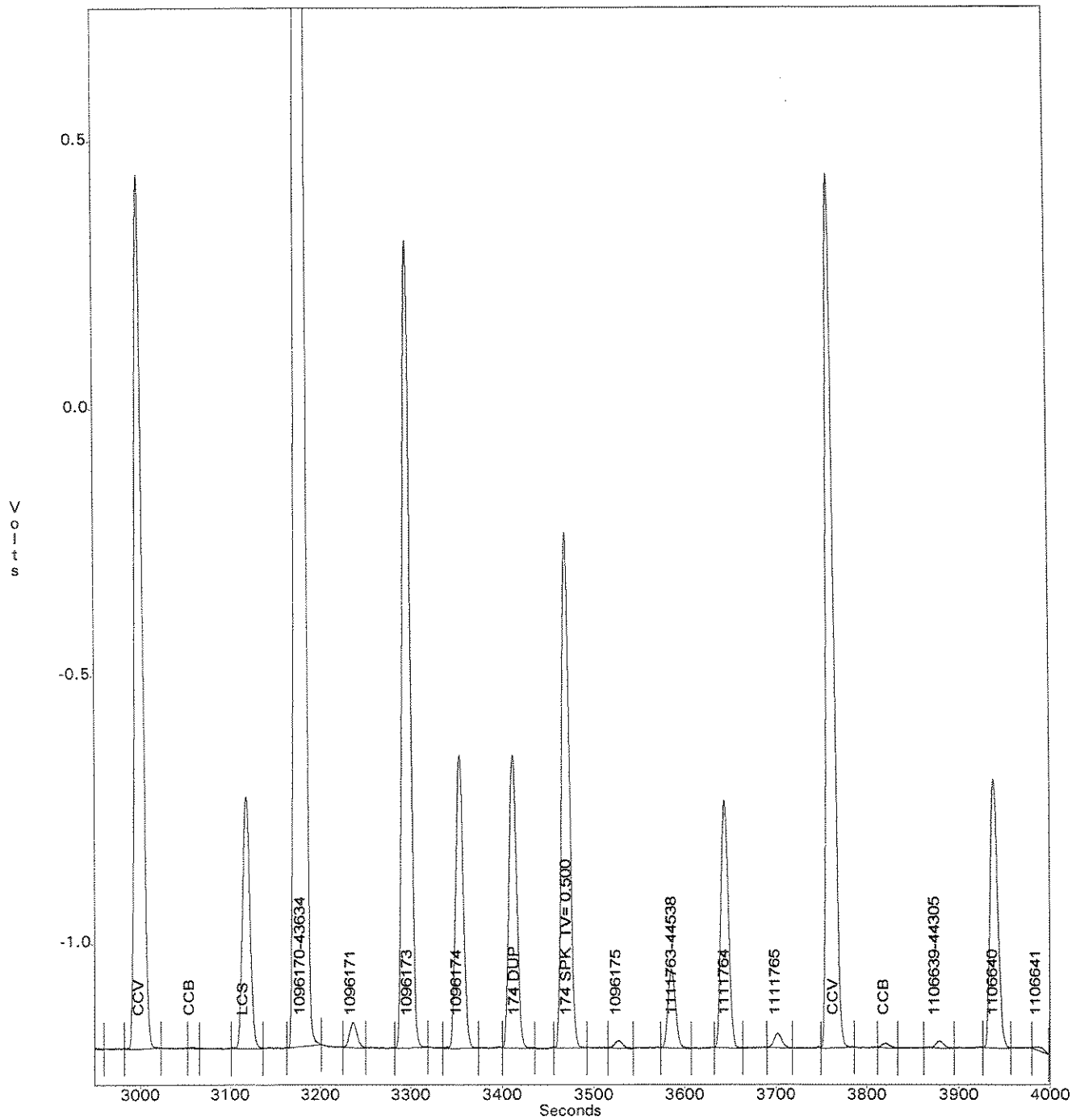
OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 11:51:06
DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
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Channel 1 - QC 8000 350.1 Ammonia



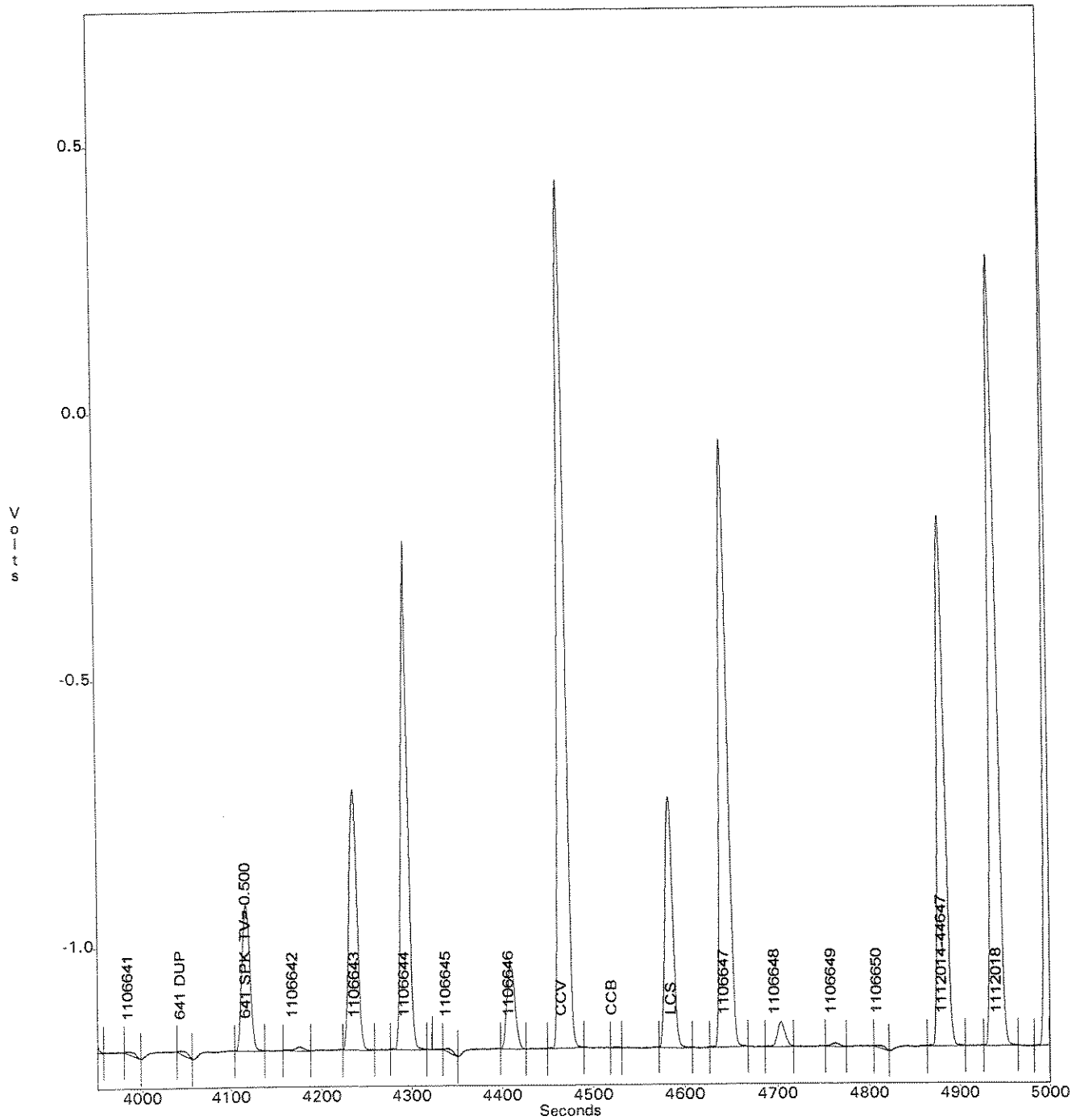
OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 11:51:06
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TRAY FILENAME: C:\OMNION\TRAYS\080627A2.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 11:51:06
DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080627A2.TRA

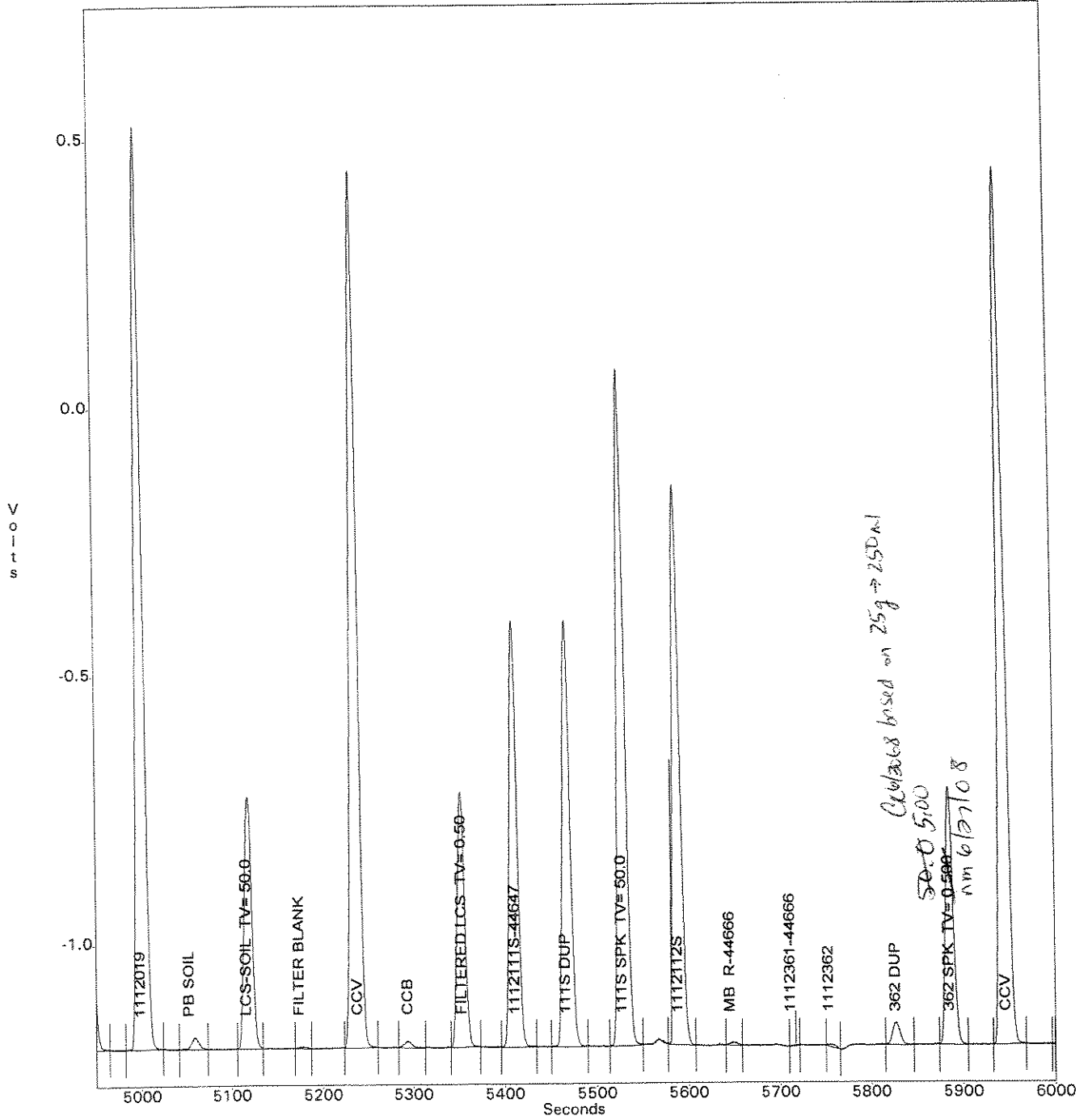
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

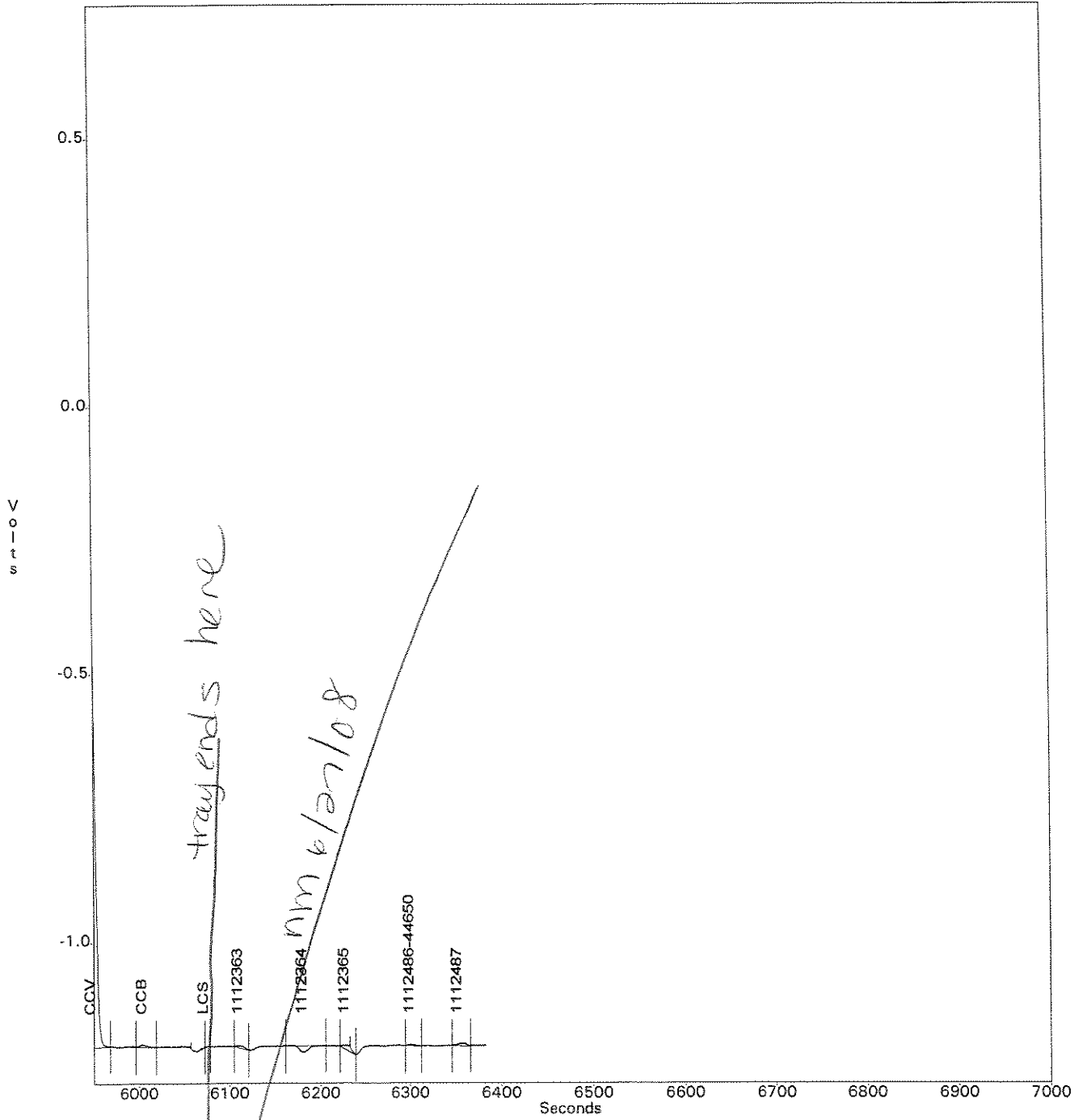
NMEAD
Jun 27, 2008 11:51:06
C:\OMNION\DATA\080627A2.FDT
C:\OMNION\TRAYS\080627A2.TRA

Channel 1 - QC 8000 350.1 Ammonia



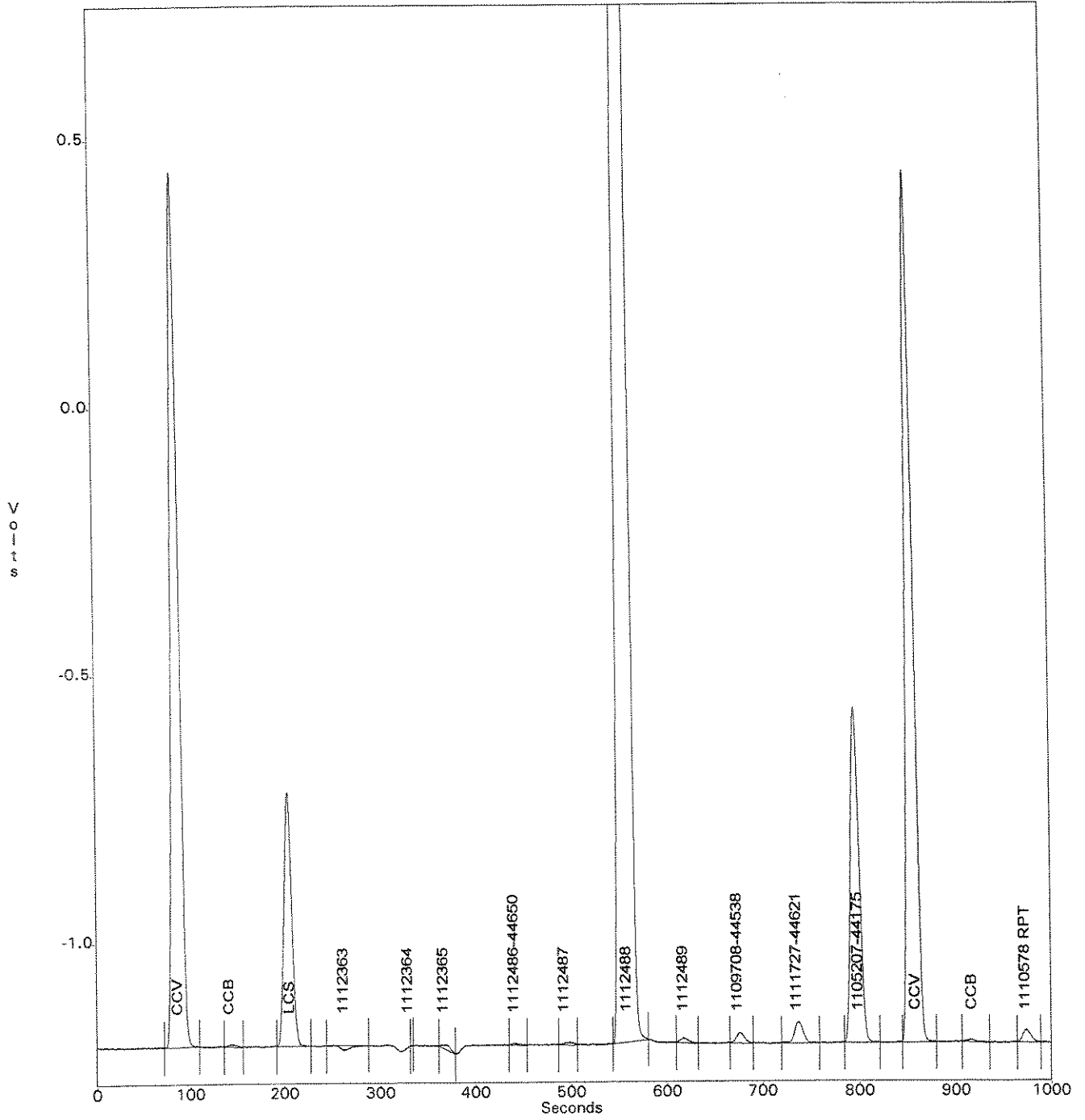
OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 11:51:06
DATA FILENAME: C:\OMNION\DATA\080627A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080627A2.TRA

Channel 1 - QC 8000 350.1 Ammonia



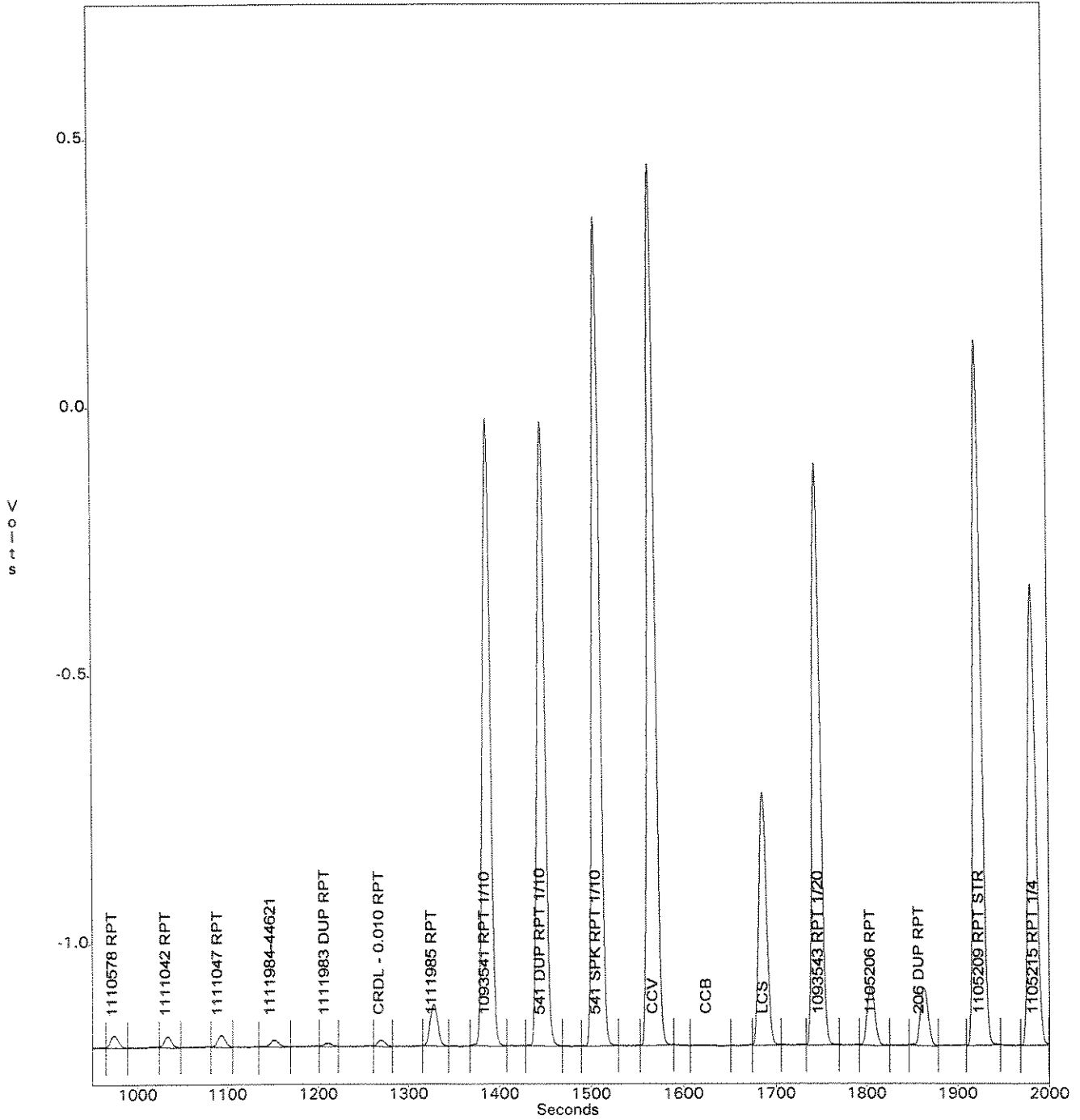
OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 13:39:43
DATA FILENAME: C:\OMNION\DATA\080627A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080627A3.TRA

Channel 1 - QC 8000 350.1 Ammonia



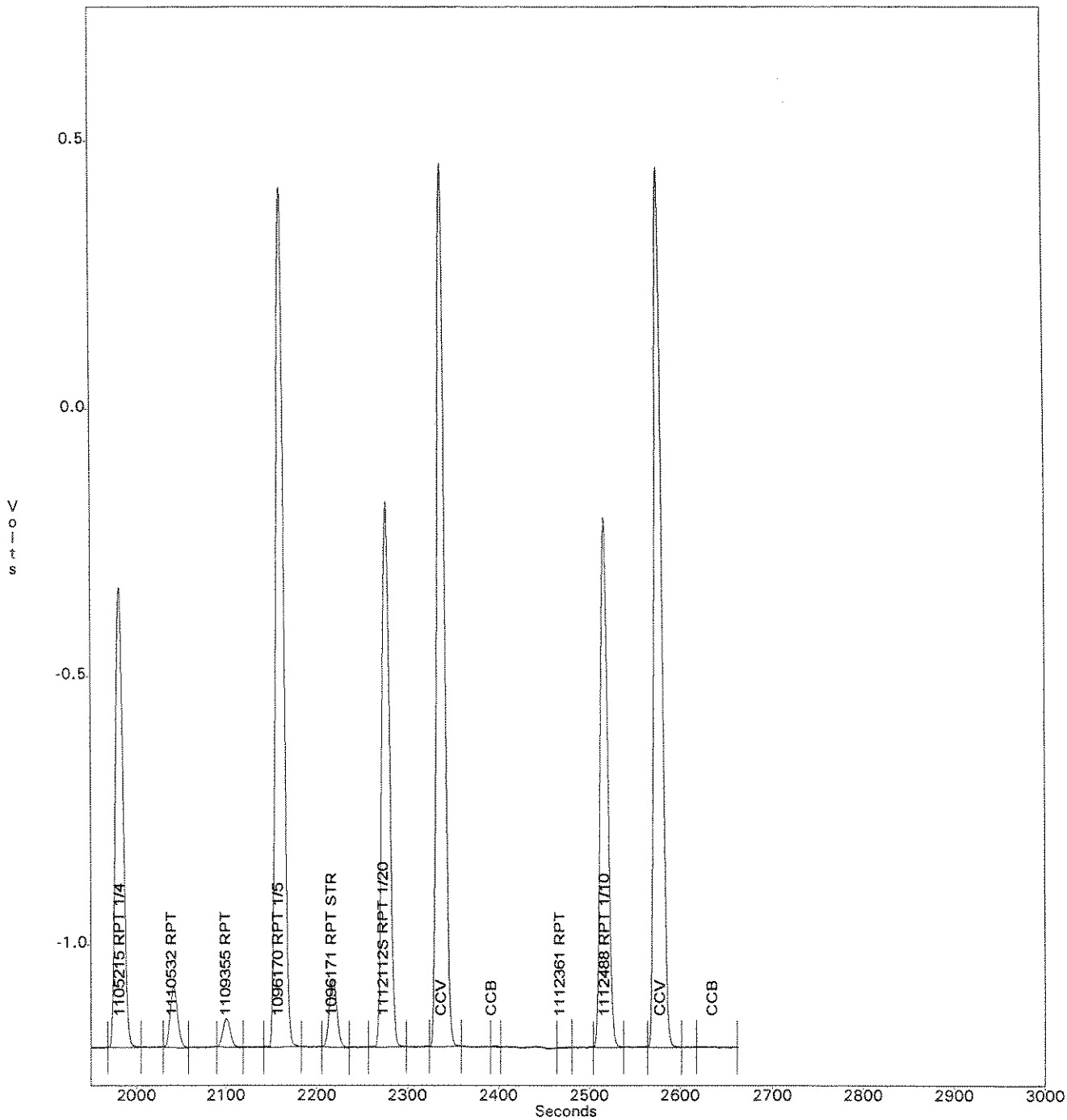
OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 13:39:43
DATA FILENAME: C:\OMNION\DATA\080627A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080627A3.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 13:39:43
DATA FILENAME: C:\OMNION\DATA\080627A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080627A3.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
ACQ. TIME: Jun 27, 2008 10:35:16
DATA FILENAME: C:\OMNION\DATA\0806270A.FDT
METHOD FILENAME:
TRAY FILENAME: C:\OMNION\TRAYS\0806270A.TRA

TRAY DESCRIPTION:
Created: Jun 27, 2008 9:54:35
Modified: Jun 27, 2008 10:27:12
QC 8000 350.1 Ammonia - RUN LOG - 0806270A

DATA DESCRIPTION:
Created: Jun 27, 2008 10:35:16
Modified: Jun 27, 2008 10:35:16

Method - Ch. 1 (QC 8000 350.1 Ammonia)

METHOD DESCRIPTION:
Created: Jun 8, 2007 13:44:01
Modified: Jun 27, 2008 10:35:03
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

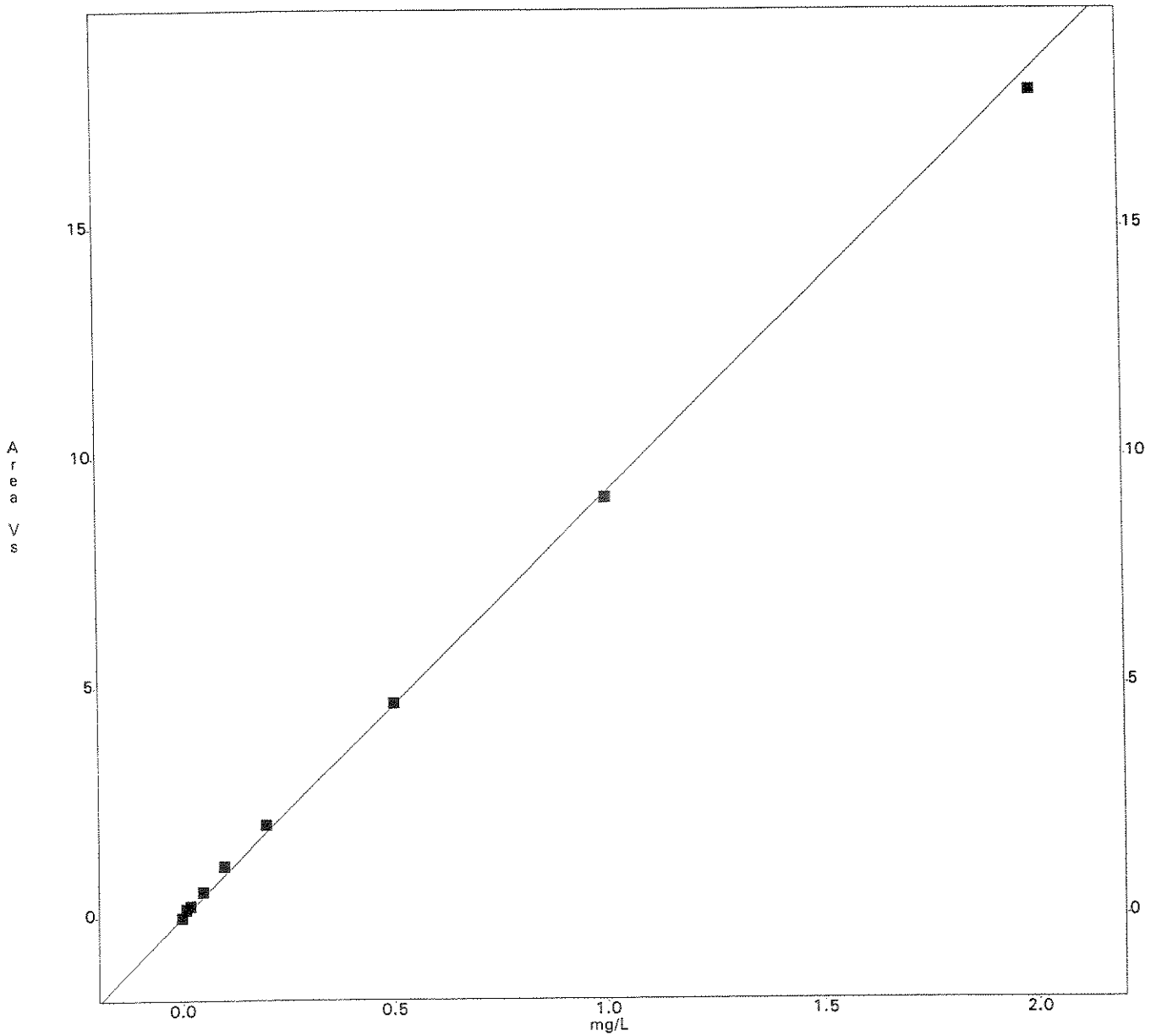
QC 8000 350.1 Ammonia

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	17981330	2.00	17981330					0.0	0.0	2.6
2	9108295	1.00	9108295					0.0	0.0	1.4
3	4647735	0.50	4647735					0.0	0.0	-0.7
4	2001638	0.20	2001638					0.0	0.0	-8.4
5	1109472	0.10	1109472					0.0	0.0	-20.1
6	559443	0.05	559443					0.0	0.0	-21.2
7	246349	0.02	250758	241939				6236.0	2.5	-33.4
8	176902	0.01	186662	167142				13802.7	7.8	-91.6
9	0	0.00	0	0				0.0	0.0	

1st Order Poly
 Conc = 1.083e-007 Area - 1.205e-007
 r = 0.9995

*pipette ID'S: E-1
ALI*

Scaling: None - Weighting: 1/X



Printed: Friday, June 27, 2008 - 10:48 AM

4/7/03
DMG

Ammonia (NH₃) [Laekat: pp1 = 0.050 Reg Level, 0.010 - Low Level]

(A) STANDARDS

STD.	CONC (mg/L)	mls 10 ppm (wcb5166C)	mls Carrier-Diluent (wcb5165F)
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) Iev/CCV: (TV = 1.80 mg/L)

Do two (2) 1/10 serial dilutions of the 180 ppm Reference Stock (wcb5156B). Prepare using Carrier-Diluent (wcb5165F)

(C) 10.0 ppm Working Stock

Do two (2) 1/10 serial dilutions of the 1000 ppm Standard Stock (wcb5156A). Prepare using Carrier-Diluent (wcb5165F)

(D) Les/Matrix Spike: (TV = 0.500 mg/L)

Add 0.050 mls 100 ppm working Stock (wcb5166C, 1st 1/10 serial dilution) to 10 mls Carrier-Diluent (wcb5165F) or sample.

23/08
Nm

① NH₃/TKN 1000 ppm Standard Stock

3.819 granular NH₄Cl (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.

② NH₃ 180 ppm Reference Stock

0.687g granular NH₄Cl (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.

③ TKN 400 ppm Reference Stock

1.5276g granular NH₄Cl (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.

10 copies

44538
 44902
 44866
 44922
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L. Nunez

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1120376	WATER	1.74	1.0	0.0500	96.9		07/24/2008		
BLK6		1120377	WATER	0.0500	1.0	0.0500			07/24/2008		
SPKB		1120378	WATER	0.499	1.0	0.0500	99.9		07/24/2008		
SPKB		1120380	WATER	0.503	1.0	0.0500	100.6		07/24/2008		
ESMP	R2844538	1110981	WATER	1.68	20.0	0.0500			07/24/2008	RUN	ASPB
SPKB		1120385	WATER	0.500	1.0	0.0500	100.1		07/24/2008		
BLK5		1120382	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008		
ESMP	R2844902	1116802	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
LDUP		1120383	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008		
SPK1		1120384	SOIL/SEDIME	5.18	1.0	5.00	103.6		07/24/2008		
ESMP	R2844902	1116803	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116804	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116805	SOIL/SEDIME	10.0	2.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116806	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116807	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116808	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116809	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116810	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116811	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116812	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
LDUP		1120386	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008		
SPK1		1120387	SOIL/SEDIME	4.90	1.0	5.00	98.1		07/24/2008		
ESMP	R2844902	1116813	SOIL/SEDIME	10.0	2.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116814	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116815	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116816	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116817	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116818	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844902	1116819	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008	RUN	ASPB
ESMP	R2844866	1116921	WATER	0.176	1.0	0.0500			07/24/2008		ASPB
ESMP	R2844866	1116922	WATER	1.40	1.0	0.0500			07/24/2008		ASPB
ESMP	R2844866	1117196	WATER	0.0628	1.0	0.0500			07/24/2008		ASPB
ESMP	R2844866	1117197	WATER	0.0500	1.0	0.0500			07/24/2008		ASPB
SPKB		1120391	WATER	0.503	1.0	0.0500	100.6		07/24/2008		
BLK5		1120388	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008		
ESMP	R2844922	1117272	SOIL/SEDIME	0.149	1.0	5.00			07/24/2008		ASPB
LDUP		1120389	SOIL/SEDIME	0.149	1.0	5.00			07/24/2008		
SPK1		1120390	SOIL/SEDIME	5.20	1.0	5.00	104.0		07/24/2008		
ESMP	R2844922	1117273	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117274	SOIL/SEDIME	0.284	1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117275	SOIL/SEDIME	0.185	1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117276	SOIL/SEDIME	0.619	1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117277	SOIL/SEDIME	0.200	1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117278	SOIL/SEDIME	0.583	1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117279	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117280	SOIL/SEDIME	5.00	1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117281	SOIL/SEDIME	0.967	1.0	5.00			07/24/2008	QC	ASPB
LDUP		1120392	SOIL/SEDIME	1.22	1.0	5.00			07/24/2008		
SPK1		1120393	SOIL/SEDIME	6.24	1.0	5.00	124.7		07/24/2008		
ESMP	R2844922	1117282	SOIL/SEDIME	0.456	1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117283	SOIL/SEDIME	0.195	1.0	5.00			07/24/2008		ASPB

OK H-POL
 23.54
 mm/24/08

Reviewed & Approved

By: B. Bank

Date: 7/28/08

ANALYTE: G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT		DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844922	1117284	SOIL/SEDIME	5.00	U	1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117285	SOIL/SEDIME	0.160		1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117286	SOIL/SEDIME	0.578		1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117287	SOIL/SEDIME	0.128		1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117288	SOIL/SEDIME	0.259		1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117289	SOIL/SEDIME	0.201		1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117290	SOIL/SEDIME	0.0730		1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117291	SOIL/SEDIME	0.160		1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117292	SOIL/SEDIME	0.224		1.0	5.00			07/24/2008		ASPB
ESMP	R2844922	1117293	SOIL/SEDIME	0.0860 5.000		1.0	5.00			07/24/2008		ASPB
ESMP	R2844202	1105439	WATER	0.0500	U	1.0	0.0500			07/24/2008	RUN	2
LDUP		1120395	WATER	0.0500	U	1.0	0.0500			07/24/2008		
SPK1		1120396	WATER	0.484		1.0	0.0500	96.9		07/24/2008		
SPKB		1120394	WATER	0.505		1.0	0.0500	101.0		07/24/2008		
ESMP	R2844202	1105440	WATER	0.0500	U	1.0	0.0500			07/24/2008	RUN	2
ESMP	R2844202	1105441	WATER	0.536		1.0	0.0500			07/24/2008	RUN	2
ESMP	R2844202	1105442	WATER	0.0500	U	1.0	0.0500			07/24/2008	RUN	2
ESMP	R2844236	1105738	WATER	0.645		1.0	0.0500			07/24/2008		1
ESMP	R2844236	1105739	WATER	0.276		1.0	0.0500			07/24/2008		1
ESMP	R2844236	1105740	WATER	0.0517		1.0	0.0500			07/24/2008		1
ESMP	R2844835	1115027	WATER	1850		1000.0	0.0500			07/24/2008		1
ESMP	R2844941	1117862	WATER	0.172		1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1117863	WATER	0.0500	U	1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1117864	WATER	0.415		1.0	0.0500			07/24/2008	QC	ASP-B
LDUP		1120397	WATER	0.419		1.0	0.0500		1.01	07/24/2008		
SPK1		1120398	WATER	0.908		1.0	0.0500	98.6		07/24/2008		
ESMP	R2844941	1117865	WATER	0.180		1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1117866	WATER	0.604		1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1117867	WATER	0.0500	U	1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1117868	WATER	0.248		1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844956	1118065	WATER	0.0500	U	1.0	0.0500			07/24/2008		2
SPKB		1120399	WATER	0.500		1.0	0.0500	100.0		07/24/2008		
ESMP	R2844956	1118074	WATER	0.0500	U	1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118075	WATER	0.212		1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118076	WATER	0.0500	U	1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118077	WATER	0.0500	U	1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118078	WATER	0.0500	U	1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118079	WATER	0.0500	U	1.0	0.0500			07/24/2008	QC	2
LDUP		1120400	WATER	0.0500	U	1.0	0.0500			07/24/2008		
SPK1		1120401	WATER	0.519		1.0	0.0500	103.8		07/24/2008		
ESMP	R2844956	1118081	WATER	0.0500	U	1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118082	WATER	0.0500	U	1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118083	WATER	0.0500	U	1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118084	WATER	1.83		1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118085	WATER	0.183		1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118086	WATER	0.0500	U	1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118087	WATER	0.674		1.0	0.0500			07/24/2008		2
ESMP	R2844956	1118088	WATER	2.26		2.0	0.0500			07/24/2008		2
ESMP	R2844941	1118177	WATER	0.120		1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1118178	WATER	0.0500	U	1.0	0.0500			07/24/2008		ASP-B
LDUP		1120403	WATER	0.0500	U	1.0	0.0500			07/24/2008		
SPK1		1120404	WATER	0.528		1.0	0.0500	105.7		07/24/2008		
SPKB		1120405	WATER	0.507		1.0	0.0500	101.3		07/24/2008		
ESMP	R2844941	1118179	WATER	0.0927		1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1118180	WATER	0.365		1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1118181	WATER	0.227		1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1118182	WATER	0.0500	U	1.0	0.0500			07/24/2008		ASP-B

ANALYTE:G:\STARLIMS\ASBAR.RP1

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>RESULT</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
ESMP	R2844941	1118183	WATER	0.124		1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1118184	WATER	0.0500	U	1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1118185	WATER	0.942		1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844198	1105431	WATER	0.0516		1.0	0.0500			07/24/2008	RUN	2
ESMP	R2844198	1105432	WATER	0.0749		1.0	0.0500			07/24/2008	RUN	2
ESMP	R2844198	1105433	WATER	21.6		20.0	0.0500			07/24/2008	RUN	2
ESMP	R2844941	1118502	WATER	1.05		1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844941	1118503	WATER	0.0500	U	1.0	0.0500			07/24/2008		ASP-B
LDUP		1120407	WATER	0.0500	U	1.0	0.0500			07/24/2008		
SPK1		1120408	WATER	0.328		1.0	0.0500	65.7		07/24/2008		
SPKB		1120409	WATER	0.502		1.0	0.0500	100.3		07/24/2008		
ESMP	R2844941	1118504	WATER	0.0500	U	1.0	0.0500			07/24/2008		ASP-B
ESMP	R2844237	1105745	WATER	14.4		10.0	0.0500			07/24/2008		1
ESMP	R2844237	1105748	WATER	0.134		1.0	0.0500			07/24/2008		1
ESMP	R2845063	1119991	WATER	1590		1000.0	0.0500			07/24/2008		1
SPKB		1120556	WATER	0.508		1.0	0.0500	101.7		07/24/2008		

Records printed: 124

Creator: NMEAD

Creation Date: Jul 23, 2008 15:57:45

Last Modified: Jul 23, 2008 15:57:45

Description: QC 8000 350.1 Ammonia - RUN LOG -0807240A

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	1116752-44898	1.0000	Unknown	
9	752 DUP	1.0000	Unknown	
10	752 SPK TV = 0.500	1.0000	Unknown	
11	1116756	1.0000	Unknown	
12	1116757	1.0000	Unknown	
13	1116758	1.0000	Unknown	
14	1116761	1.0000	Unknown	
15	1116763	1.0000	Unknown	
16	1116764	1.0000	Unknown	
17	1116765	1.0000	Unknown	
18	CCV	1.0000	Unknown	
19	CCB	1.0000	Unknown	
20	LCS	1.0000	Unknown	
21	1116766	1.0000	Unknown	
22	1116767	1.0000	Unknown	
23	1116768	1.0000	Unknown	
24	1116769	1.0000	Unknown	
25	1116770	1.0000	Unknown	- cp + @ # 19 - tray 2 - 1/2
26	1116786-44870	1.0000	Unknown	
27	1116787	1.0000	Unknown	
28	787 DUP	1.0000	Unknown	
29	787 SPK TV = 0.500	1.0000	Unknown	
30	1116893-44898	1.0000	Unknown	
31	CCV	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
32	CCB	1.0000	Unknown	
33	1117609-44936	1.0000	Unknown	
34	609 DUP	1.0000	Unknown	
35	609 SPK TV = 0.500	1.0000	Unknown	
36	1117610	1.0000	Unknown	
37	1117611	1.0000	Unknown	
38	1117612	1.0000	Unknown	
39	1117613 ✓	1.0000	Unknown	
40	1117614	1.0000	Unknown	
41	1117615 ✓	1.0000	Unknown	
42	1117618	1.0000	Unknown	
43	CCV	1.0000	Unknown	
44	CCB	1.0000	Unknown	
45	LCS	1.0000	Unknown	
46	1117641-44939	1.0000	Unknown	
47	1117642	1.0000	Unknown	
48	1117643	1.0000	Unknown	
49	1117644	1.0000	Unknown	
50	1117645	1.0000	Unknown	
51	1117646	1.0000	Unknown	
52	1117837-44936	1.0000	Unknown	
53	1117838	1.0000	Unknown	
54	1117839	1.0000	Unknown	
55	1117934	1.0000	Unknown	
56	CCV	1.0000	Unknown	
57	CCB	1.0000	Unknown	
58	934 DUP	1.0000	Unknown	
59	934 SPK TV = 0.500	1.0000	Unknown	
60	1117935	1.0000	Unknown	
61	1117936	1.0000	Unknown	
62	1117954-44947	1.0000	Unknown	
63	1117955	1.0000	Unknown	
64	1117956	1.0000	Unknown	
65	1117957	1.0000	Unknown	
66	1117958	1.0000	Unknown	
67	1117959	1.0000	Unknown	
68	CCV	1.0000	Unknown	
69	CCB	1.0000	Unknown	
70	LCS	1.0000	Unknown	
71	1118092-44936	1.0000	Unknown	
72	1118511	1.0000	Unknown	
73	511 DUP	1.0000	Unknown	
74	511 SPK TV = 0.500	1.0000	Unknown	
75	1118512	1.0000	Unknown	
76	1110981-44538	1.0000	Unknown	-np + @ # 20 -tray 2 - 1/20

Cup #	Sample ID	Manual Dilution	Sample Type	
77	MB 44902	25.0g → 250mL 1.0000	Unknown	- sm. neg. peak - <PQL
78	1116802S-44902	↓	1.0000	Unknown
79	802S DUP	↓	1.0000	Unknown
80	802S SPK TV = 5.00	↓	1.0000	Unknown
81	CCV		1.0000	Unknown
82	CCB		1.0000	Unknown
83	1116803S	25.0g → 250mL 1.0000	Unknown	- neg. peak - <PQL
84	1116804S	↓	1.0000	Unknown
85	1116805S	↓	1.0000	Unknown
86	1116806S	↓	1.0000	Unknown
87	1116807S	↓	1.0000	Unknown
88	1116808S	↓	1.0000	Unknown
89	1116809S	↓	1.0000	Unknown
90	1116810S	↓	1.0000	Unknown
91	1116811S	↓	1.0000	Unknown
92	1116812S	↓	1.0000	Unknown
93	CCV		1.0000	Unknown
94	CCB		1.0000	Unknown
95	LCS		1.0000	Unknown
96	812S DUP	25.0g → 250mL 1.0000	Unknown	- neg. peak - <PQL
97	812S SPK TV = 5.00	↓	1.0000	Unknown
98	1116813S	↓	1.0000	Unknown
99	1116814S	↓	1.0000	Unknown
100	1116815S	↓	1.0000	Unknown
101	1116816S	↓	1.0000	Unknown
102	1116817S	↓	1.0000	Unknown
103	1116818S	↓	1.0000	Unknown
104	1116819S	↓	1.0000	Unknown
105	1116921-44866		1.0000	Unknown
106	CCV		1.0000	Unknown
107	CCB		1.0000	Unknown
108	1116922		1.0000	Unknown
109	1117196		1.0000	Unknown
110	1117197		1.0000	Unknown
111	1117272S-44922	25.0g → 250mL 1.0000	Unknown	- air spikes - rpt @ # 23 - tray 2 - 1/2
112	272S DUP	↓	1.0000	Unknown
113	272S SPK TV = 0.500	↓	1.0000	Unknown
114	1117273S	↓	1.0000	Unknown
115	1117274S	↓	1.0000	Unknown
116	1117275S	↓	1.0000	Unknown
117	1117276S	↓	1.0000	Unknown
118	CCV		1.0000	Unknown
119	CCB		1.0000	Unknown
120	LCS		1.0000	Unknown
121	1117277S	25.0g → 250mL 1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
122	1117278S	25.0g → 250 mL 1.0000	Unknown	
123	1117279S	1.0000	Unknown	- sm. neg. peak - < PQL
124	1117280S	1.0000	Unknown	
125	1117281S	1.0000	Unknown	} okay - +/- PQL
126	281S DUP	1.0000	Unknown	
127	281S SPK TV = 0.500	1.0000	Unknown	
128	1117282S	1.0000	Unknown	
129	1117283S	1.0000	Unknown	- air spikes - rpt @ #26 - tray 2
130	1117284S	1.0000	Unknown	- air spike - rpt @ #27 - tray 2
131	CCV	1.0000	Unknown	
132	CCB	1.0000	Unknown	
133	1117285S	25.0g → 250 mL 1.0000	Unknown	
134	1117286S	1.0000	Unknown	
135	1117287S	1.0000	Unknown	
136	1117288S	1.0000	Unknown	
137	1117289S	1.0000	Unknown	
138	1117290S	1.0000	Unknown	
139	1117291S	1.0000	Unknown	
140	1117292S	1.0000	Unknown	
141	1117293S	1.0000	Unknown	- sm. neg. peak - < PQL
142	MB 44922	1.0000	Unknown	
143	CCV	1.0000	Unknown	
144	CCB	1.0000	Unknown	
145	LCS	1.0000	Unknown	
146	1105439-44202	1.0000	Unknown	
147	439 DUP	1.0000	Unknown	
148	439 SPK TV = 0.500	1.0000	Unknown	
149	1105440	1.0000	Unknown	
150	1105441	1.0000	Unknown	
151	1105442	1.0000	Unknown	
152	1105738-44236	1.0000	Unknown	
153	1105739	1.0000	Unknown	
154	1105740	1.0000	Unknown	
155	1115027-44835	1,000.0000	Unknown	
156	CCV	1.0000	Unknown	
157	CCB	1.0000	Unknown	
158	1117862-44941	1.0000	Unknown	
159	1117863	1.0000	Unknown	
160	1117864	1.0000	Unknown	
161	864 DUP	1.0000	Unknown	
162	864 SPK TV = 0.500	1.0000	Unknown	
163	1117865	1.0000	Unknown	
164	1117866	1.0000	Unknown	
165	1117867	1.0000	Unknown	
166	1117868	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
167	1118065-44956	1.0000	Unknown	
168	CCV	1.0000	Unknown	
169	CCB	1.0000	Unknown	
170	LCS	1.0000	Unknown	
171	1118074	1.0000	Unknown	
172	1118075	1.0000	Unknown	
173	1118076	1.0000	Unknown	
174	1118077	1.0000	Unknown	
175	1118078	1.0000	Unknown	
176	1118079	1.0000	Unknown	
177	079 DUP	1.0000	Unknown	
178	079 SPK TV = 0.500	1.0000	Unknown	
179	1118081	1.0000	Unknown	
180	1118082	1.0000	Unknown	
181	CCV	1.0000	Unknown	
182	CCB	1.0000	Unknown	
183	1118083	1.0000	Unknown	
184	1118084	1.0000	Unknown	
185	1118085	2.0000	Unknown	- rpt @ #28 - tray 2 - str.
186	1118086	1.0000	Unknown	
187	1118087	50.0000	Unknown	- rpt @ #29 - tray 2 - str.
188	1118088	100.0000	Unknown	- rpt @ #30 - tray 2 - str. 1/2
189	1118177-44941	1.0000	Unknown	
190	1118178	1.0000	Unknown	
191	178 DUP	1.0000	Unknown	
192	178 SPK TV = 0.500	1.0000	Unknown	
193	CCV	1.0000	Unknown	
194	CCB	1.0000	Unknown	
195	LCS	1.0000	Unknown	
196	1118179	1.0000	Unknown	
197	1118180	1.0000	Unknown	
198	1118181	1.0000	Unknown	
199	CCV	1.0000	Unknown	
200	CCB	1.0000	Unknown	

OPERATOR: NMEAD
 ACQ. TIME: Jul 24, 2008 9:38:39
 DATA FILENAME: C:\OMNION\DATA\080724A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807240A.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	24 Jul 2008	09:38:42	1	1.7447	1.0	1.00
2	ICB	24 Jul 2008	09:39:40	1	-0.0032	1.0	1.00
3	LCS TV= 0.500	24 Jul 2008	09:40:38	1	0.4994	1.0	1.00
4	CRDL 0.050	24 Jul 2008	09:41:36	1	0.0484	1.0	1.00
5	CRDL 0.010	24 Jul 2008	09:42:34	1	0.0101	1.0	1.00
6	CCV	24 Jul 2008	09:43:33	1	1.7560	1.0	1.00
7	CCB	24 Jul 2008	09:44:31	1	-0.0032	1.0	1.00
8	1116752-44898	24 Jul 2008	09:45:29	1	0.0095	1.0	1.00
9	752 DUP	24 Jul 2008	09:46:26	1	0.0123	1.0	1.00
10	752 SPK TV= 0.500	24 Jul 2008	09:47:23	1	0.5122	1.0	1.00
11	1116756	24 Jul 2008	09:48:20	1	0.0462	1.0	1.00
12	1116757	24 Jul 2008	09:49:17	1	0.0220	1.0	1.00
13	1116758	24 Jul 2008	09:50:15	1	0.0159	1.0	1.00
14	1116761	24 Jul 2008	09:51:12	1	0.0161	1.0	1.00
15	1116763	24 Jul 2008	09:52:09	1	0.0238	1.0	1.00
16	1116764	24 Jul 2008	09:53:07	1	0.0135	1.0	1.00
17	1116765	24 Jul 2008	09:54:06	1	0.0128	1.0	1.00
18	CCV	24 Jul 2008	09:55:04	1	1.7352	1.0	1.00
19	CCB	24 Jul 2008	09:56:02	1	-0.0032	1.0	1.00
20	LCS	24 Jul 2008	09:57:00	1	0.5036	1.0	1.00
21	1116766	24 Jul 2008	09:57:58	1	0.1387	1.0	1.00
22	1116767	24 Jul 2008	09:58:56	1	0.3148	1.0	1.00
23	1116768	24 Jul 2008	09:59:54	1	0.0135	1.0	1.00
24	1116769	24 Jul 2008	10:00:53	1	1.7562	1.0	1.00
25	1116770	24 Jul 2008	10:01:50	1	2.1978	1.0	1.00 - pt @ # 19 - trays - 1/2

OPERATOR: NMEAD
 ACQ. TIME: Jul 24, 2008 9:38:39
 DATA FILENAME: C:\OMNION\DATA\080724A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807240A.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	1116786-44870	24 Jul 2008	10:02:47	1	0.0288	1.0	1.00
27	1116787	24 Jul 2008	10:03:44	1	0.0581	1.0	1.00
28	787 DUP	24 Jul 2008	10:04:41	1	0.0560	1.0	1.00
29	787 SPK TV= 0.500	24 Jul 2008	10:05:38	1	0.5584	1.0	1.00
30	1116893-44898	24 Jul 2008	10:06:35	1	0.0078	1.0	1.00
31	CCV	24 Jul 2008	10:07:35	1	1.7495	1.0	1.00
32	CCB	24 Jul 2008	10:08:34	1	-0.0002	1.0	1.00
33	1117609-44936	24 Jul 2008	10:09:32	1	0.0106	1.0	1.00
34	609 DUP	24 Jul 2008	10:10:30	1	0.0104	1.0	1.00
35	609 SPK TV= 0.500	24 Jul 2008	10:11:28	1	0.5282	1.0	1.00
36	1117610	24 Jul 2008	10:12:27	1	0.0157	1.0	1.00
37	1117611	24 Jul 2008	10:13:25	1	0.0723	1.0	1.00
38	1117612	24 Jul 2008	10:14:23	1	0.0332	1.0	1.00
39	1117613	24 Jul 2008	10:15:21	1	0.0058	1.0	1.00
40	1117614	24 Jul 2008	10:16:19	1	0.0965	1.0	1.00
41	1117615	24 Jul 2008	10:17:16	1	-0.0007	1.0	1.00
42	1117618	24 Jul 2008	10:18:13	1	0.0790	1.0	1.00
43	CCV	24 Jul 2008	10:19:11	1	1.7713	1.0	1.00
44	CCB	24 Jul 2008	10:20:08	1	0.0014	1.0	1.00
45	LCS	24 Jul 2008	10:21:06	1	0.5055	1.0	1.00
46	1117641-44939	24 Jul 2008	10:22:04	1	0.0361	1.0	1.00
47	1117642	24 Jul 2008	10:23:03	1	0.0482	1.0	1.00
48	1117643	24 Jul 2008	10:24:02	1	0.0421	1.0	1.00
49	1117644	24 Jul 2008	10:25:02	1	0.0378	1.0	1.00
50	1117645	24 Jul 2008	10:26:00	1	0.0439	1.0	1.00

OPERATOR: NMEAD
 ACQ. TIME: Jul 24, 2008 9:38:39
 DATA FILENAME: C:\OMNION\DATA\080724A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807240A.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	1117646	24 Jul 2008	10:26:58	1	0.0485	1.0	1.00
52	1117837-44936	24 Jul 2008	10:27:56	1	0.0411	1.0	1.00
53	1117838	24 Jul 2008	10:28:54	1	0.0422	1.0	1.00
54	1117839	24 Jul 2008	10:29:53	1	0.2927	1.0	1.00
55	1117934	24 Jul 2008	10:30:51	1	0.0074	1.0	1.00
56	CCV	24 Jul 2008	10:31:49	1	1.7538	1.0	1.00
57	CCB	24 Jul 2008	10:32:47	1	-0.0032	1.0	1.00
58	934 DUP	24 Jul 2008	10:33:44	1	0.0026	1.0	1.00
59	934 SPK TV= 0.500	24 Jul 2008	10:34:41	1	0.5012	1.0	1.00
60	1117935	24 Jul 2008	10:35:38	1	0.0149	1.0	1.00
61	1117936	24 Jul 2008	10:36:37	1	0.0175	1.0	1.00
62	1117954-44947	24 Jul 2008	10:37:37	1	0.0538	1.0	1.00
63	1117955	24 Jul 2008	10:38:36	1	0.0369	1.0	1.00
64	1117956	24 Jul 2008	10:39:35	1	0.0304	1.0	1.00
65	1117957	24 Jul 2008	10:40:34	1	0.0470	1.0	1.00
66	1117958	24 Jul 2008	10:41:33	1	0.0610	1.0	1.00
67	1117959	24 Jul 2008	10:42:31	1	0.0171	1.0	1.00
68	CCV	24 Jul 2008	10:43:29	1	1.7703	1.0	1.00
69	CCB	24 Jul 2008	10:44:27	1	-0.0007	1.0	1.00
70	LCS	24 Jul 2008	10:45:25	1	0.5028	1.0	1.00
71	1118092-44936	24 Jul 2008	10:46:23	1	0.0167	1.0	1.00
72	1118511	24 Jul 2008	10:47:21	1	0.0810	1.0	1.00
73	511 DUP	24 Jul 2008	10:48:19	1	0.0846	1.0	1.00
74	511 SPK TV= 0.500	24 Jul 2008	10:49:16	1	0.5684	1.0	1.00
75	1118512	24 Jul 2008	10:50:13	1	0.0115	1.0	1.00

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.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	1110981-44538	24 Jul 2008	10:51:12	1	9.0615	1.0	1.00	-rpt@# 20-tray 2-1/20
77	MB 44902	24 Jul 2008	10:52:11	1	-0.0032	1.0	1.00	sm, neg peak - < PQL
78	1116802S-44902	24 Jul 2008	10:53:11	1	-0.0001	1.0	1.00	= < 5.00
79	802S DUP	24 Jul 2008	10:54:10	1	-0.0032	1.0	1.00	= < 5.00
80	802S SPK TV= 5.00	24 Jul 2008	10:55:09	1	0.5178	1.0	1.00	= 5.178
81	CCV	24 Jul 2008	10:56:07	1	1.7622	1.0	1.00	
82	CCB	24 Jul 2008	10:57:05	1	-0.0032	1.0	1.00	
83	1116803S	24 Jul 2008	10:58:03	1	0.0133	1.0	1.00	neg peak 0.133 - neg peak
84	1116804S	24 Jul 2008	10:59:02	1	0.0150	1.0	1.00	0.150 - neg peak
85	1116805S	24 Jul 2008	11:00:00	1	0.0219	1.0	1.00	- neg peak - rpt@# 21-tray 2-1/2
86	1116806S	24 Jul 2008	11:00:58	1	-0.0032	1.0	1.00	= < 5.00
87	1116807S	24 Jul 2008	11:01:56	1	0.0032	1.0	1.00	= < 5.00
88	1116808S	24 Jul 2008	11:02:54	1	-0.0028	1.0	1.00	= < 5.00
89	1116809S	24 Jul 2008	11:03:51	1	-0.0032	1.0	1.00	= < 5.00
90	1116810S	24 Jul 2008	11:04:48	1	0.0062	1.0	1.00	= 0.0062 < 5.00
91	1116811S	24 Jul 2008	11:05:48	1	-0.0032	1.0	1.00	= < 5.00
92	1116812S	24 Jul 2008	11:06:47	1	-0.0032	1.0	1.00	= < 5.00
93	CCV	24 Jul 2008	11:07:46	1	1.7681	1.0	1.00	
94	CCB	24 Jul 2008	11:08:45	1	-0.0009	1.0	1.00	
95	LCS	24 Jul 2008	11:09:45	1	0.5005	1.0	1.00	
96	812S DUP	24 Jul 2008	11:10:44	1	-0.0032	1.0	1.00	= < 5.00
97	812S SPK TV= 5.00	24 Jul 2008	11:11:43	1	0.4904	1.0	1.00	= 4.904
98	1116813S	24 Jul 2008	11:12:42	1	0.0326	1.0	1.00	-double peak - rpt@# 20-tray 2-1/2
99	1116814S	24 Jul 2008	11:13:40	1	0.0072	1.0	1.00	= 0.072 < 5.00
100	1116815S	24 Jul 2008	11:14:39	1	0.0143	1.0	1.00	= 0.143 < 5.00

⊛ All samples had negative peaks

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.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	
eg → 250 mL 101	1116816S	24 Jul 2008	11:15:37	1	0.0062	1.0	1.00	= 0.062 45.00
↓	102	24 Jul 2008	11:16:35	1	0.0065	1.0	1.00	= 0.065 45.00
↓	103	24 Jul 2008	11:17:33	1	0.0092	1.0	1.00	= 0.092 45.00
↓	104	24 Jul 2008	11:18:31	1	-0.0001	1.0	1.00	= 45.00
	105	24 Jul 2008	11:19:29	1	0.1759	1.0	1.00	
	106	24 Jul 2008	11:20:28	1	1.7730	1.0	1.00	
	107	24 Jul 2008	11:21:28	1	-0.0032	1.0	1.00	
	108	24 Jul 2008	11:22:27	1	1.3987	1.0	1.00	
	109	24 Jul 2008	11:23:26	1	0.0388	1.0	1.00	⇒ air spikes - rpt @ #23 - trays
	110	24 Jul 2008	11:24:25	1	0.0472	1.0	1.00	
eg → 250 mL	111	24 Jul 2008	11:25:25	1	0.0149	1.0	1.00	= 0.149
↓	112	272S DUP	24 Jul 2008	1	0.0149	1.0	1.00	= 0.149
↓	113	272S SPK TV=5.00 0.500 nm/24hrs	24 Jul 2008	1	0.5200	1.0	1.00	= 5.200
↓	114	1117273S	24 Jul 2008	1	0.0049	1.0	1.00	= 45.00
↓	115	1117274S	24 Jul 2008	1	0.0284	1.0	1.00	= 0.284
↓	116	1117275S	24 Jul 2008	1	0.0185	1.0	1.00	= 0.185
↓	117	1117276S	24 Jul 2008	1	0.0619	1.0	1.00	= 0.619
	118	CCV	24 Jul 2008	1	1.7606	1.0	1.00	
	119	CCB	24 Jul 2008	1	-0.0018	1.0	1.00	
	120	LCS	24 Jul 2008	1	0.5029	1.0	1.00	
eg → 250 mL	121	1117277S	24 Jul 2008	1	0.0200	1.0	1.00	= 0.200
↓	122	1117278S	24 Jul 2008	1	0.0583	1.0	1.00	= 0.583
↓	123	1117279S	24 Jul 2008	1	0.0028	1.0	1.00	= 45.00
↓	124	1117280S	24 Jul 2008	1	-0.0007	1.0	1.00	= 45.00
↓	125	1117281S	24 Jul 2008	1	0.0967	1.0	1.00	= 0.967

(*) All samples had negative peaks

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.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	281S DUP	24 Jul 2008	11:40:08	1	0.1225	1.0	1.00	= 1.225
127	281S SPK TV= 0.500	24 Jul 2008	11:41:08	1	0.6235	1.0	1.00	= 6.235
128	1117282S	24 Jul 2008	11:42:07	1	0.0456	1.0	1.00	= 0.456
129	1117283S	24 Jul 2008	11:43:06	1	0.0260	1.0	1.00	= 0.260
130	1117284S	24 Jul 2008	11:44:04	1	0.0051	1.0	1.00	= 0.051
131	CCV	24 Jul 2008	11:45:02	1	1.7674	1.0	1.00	
132	CCB	24 Jul 2008	11:46:01	1	-0.0032	1.0	1.00	
133	1117285S	24 Jul 2008	11:46:59	1	0.0160	1.0	1.00	= 0.160
134	1117286S	24 Jul 2008	11:47:57	1	0.0578	1.0	1.00	= 0.578
135	1117287S	24 Jul 2008	11:48:55	1	0.0128	1.0	1.00	= 0.128
136	1117288S	24 Jul 2008	11:49:56	1	0.0259	1.0	1.00	= 0.259
137	1117289S	24 Jul 2008	11:50:56	1	0.0201	1.0	1.00	= 0.201
138	1117290S	24 Jul 2008	11:51:56	1	0.0073	1.0	1.00	= 0.073
139	1117291S	24 Jul 2008	11:52:55	1	0.0160	1.0	1.00	= 0.160
140	1117292S	24 Jul 2008	11:53:54	1	0.0224	1.0	1.00	= 0.224
141	1117293S	24 Jul 2008	11:54:53	1	0.0086	1.0	1.00	= 0.086 Neg. peak
142	MB 44922	24 Jul 2008	11:55:53	1	0.0097	1.0	1.00	= 0.097 < 5.00
143	CCV	24 Jul 2008	11:56:52	1	1.7732	1.0	1.00	
144	CCB	24 Jul 2008	11:57:51	1	-0.0032	1.0	1.00	
145	LCS	24 Jul 2008	11:58:50	1	0.5049	1.0	1.00	
146	1105439-44202	24 Jul 2008	11:59:48	1	0.0122	1.0	1.00	
147	439 DUP	24 Jul 2008	12:00:47	1	0.0128	1.0	1.00	
148	439 SPK TV= 0.500	24 Jul 2008	12:01:45	1	0.4843	1.0	1.00	
149	1105440	24 Jul 2008	12:02:43	1	0.0253	1.0	1.00	
150	1105441	24 Jul 2008	12:03:41	1	0.5362	1.0	1.00	

OPERATOR: NMEAD
 ACQ. TIME: Jul 24, 2008 9:38:39
 DATA FILENAME: C:\OMNION\DATA\080724A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807240A.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	1105442	24 Jul 2008	12:04:41	1	0.0137	1.0	1.00
152	1105738-44236	24 Jul 2008	12:05:42	1	0.6448	1.0	1.00
153	1105739	24 Jul 2008	12:06:42	1	0.2765	1.0	1.00
154	1105740	24 Jul 2008	12:07:42	1	0.0517	1.0	1.00
155	1115027-44835	24 Jul 2008	12:08:41	1	1848.2826	1000.0	1.00
156	CCV	24 Jul 2008	12:09:40	1	1.7570	1.0	1.00
157	CCB	24 Jul 2008	12:10:40	1	-0.0032	1.0	1.00
158	1117862-44941	24 Jul 2008	12:11:39	1	0.1721	1.0	1.00
159	1117863	24 Jul 2008	12:12:38	1	0.0006	1.0	1.00
160	1117864	24 Jul 2008	12:13:37	1	0.4149	1.0	1.00
161	864 DUP	24 Jul 2008	12:14:36	1	0.4192	1.0	1.00
162	864 SPK TV= 0.500	24 Jul 2008	12:15:36	1	0.9081	1.0	1.00
163	1117865	24 Jul 2008	12:16:34	1	0.1800	1.0	1.00
164	1117866	24 Jul 2008	12:17:32	1	0.6041	1.0	1.00
165	1117867	24 Jul 2008	12:18:30	1	0.0117	1.0	1.00
166	1117868	24 Jul 2008	12:19:30	1	0.2480	1.0	1.00
167	1118065-44956	24 Jul 2008	12:20:31	1	0.0089	1.0	1.00
168	CCV	24 Jul 2008	12:21:31	1	1.7292	1.0	1.00
169	CCB	24 Jul 2008	12:22:31	1	-0.0032	1.0	1.00
170	LCS	24 Jul 2008	12:23:31	1	0.5001	1.0	1.00
171	1118074	24 Jul 2008	12:24:30	1	-0.0011	1.0	1.00
172	1118075	24 Jul 2008	12:25:30	1	0.2117	1.0	1.00
173	1118076	24 Jul 2008	12:26:29	1	0.0007	1.0	1.00
174	1118077	24 Jul 2008	12:27:28	1	0.0012	1.0	1.00
175	1118078	24 Jul 2008	12:28:27	1	0.0013	1.0	1.00

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

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Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.TRA

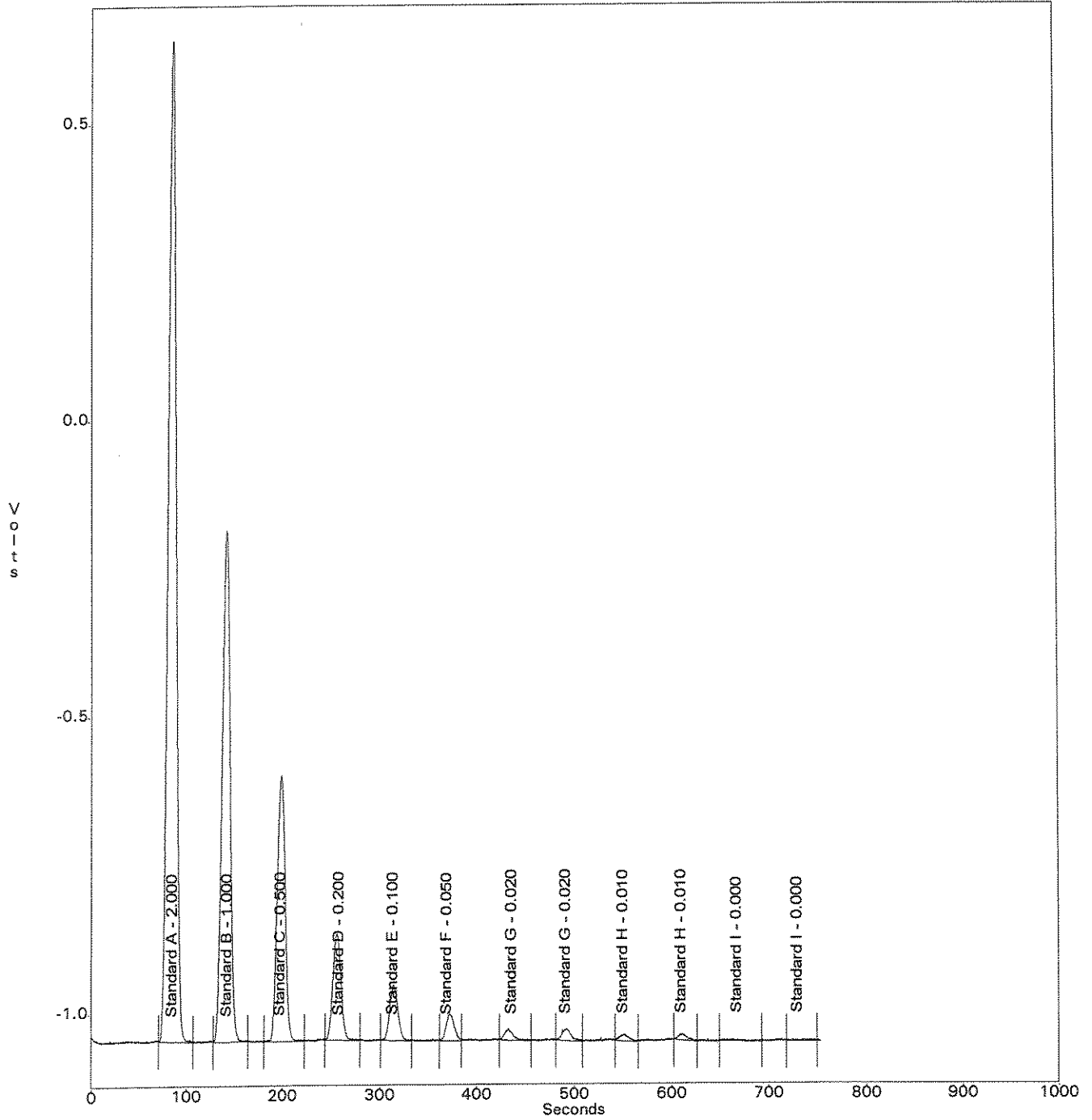
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 176 to 200

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
176	1118079	24 Jul 2008	12:29:26	1	0.0249	1.0	1.00
177	079 DUP	24 Jul 2008	12:30:26	1	0.0181	1.0	1.00
178	079 SPK TV= 0.500	24 Jul 2008	12:31:25	1	0.5188	1.0	1.00
179	1118081	24 Jul 2008	12:32:23	1	0.0150	1.0	1.00
180	1118082	24 Jul 2008	12:33:21	1	-0.0028	1.0	1.00
181	CCV	24 Jul 2008	12:34:21	1	1.7755	1.0	1.00
182	CCB	24 Jul 2008	12:35:22	1	-0.0020	1.0	1.00
183	1118083	24 Jul 2008	12:36:22	1	0.0091	1.0	1.00
184	1118084	24 Jul 2008	12:37:22	1	1.8296	1.0	1.00
185	1118085	24 Jul 2008	12:38:23	1	0.2198	2.0	1.00 - rpt @ # 28 - tray 2 - str.
186	1118086	24 Jul 2008	12:39:23	1	-0.0032	1.0	1.00
187	1118087	24 Jul 2008	12:40:23	1	0.8382	50.0	1.00 - rpt @ # 29 - tray 2 - str.
188	1118088	24 Jul 2008	12:41:22	1	3.0314	100.0	1.00 - rpt @ # 30 - tray 2 - 1/2
189	1118177-44941	24 Jul 2008	12:42:21	1	0.1198	1.0	1.00
190	1118178	24 Jul 2008	12:43:21	1	0.0198	1.0	1.00
191	178 DUP	24 Jul 2008	12:44:20	1	0.0218	1.0	1.00
192	178 SPK TV= 0.500	24 Jul 2008	12:45:19	1	0.5283	1.0	1.00
193	CCV	24 Jul 2008	12:46:18	1	1.7795	1.0	1.00
194	CCB	24 Jul 2008	12:47:17	1	-0.0020	1.0	1.00
195	LCS	24 Jul 2008	12:48:17	1	0.5066	1.0	1.00
196	1118179	24 Jul 2008	12:49:17	1	0.0927	1.0	1.00
197	1118180	24 Jul 2008	12:50:17	1	0.3650	1.0	1.00
198	1118181	24 Jul 2008	12:51:17	1	0.2272	1.0	1.00
199	CCV	24 Jul 2008	12:52:18	1	1.7677	1.0	1.00
200	CCB	24 Jul 2008	12:53:18	1	-0.0032	1.0	1.00

OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

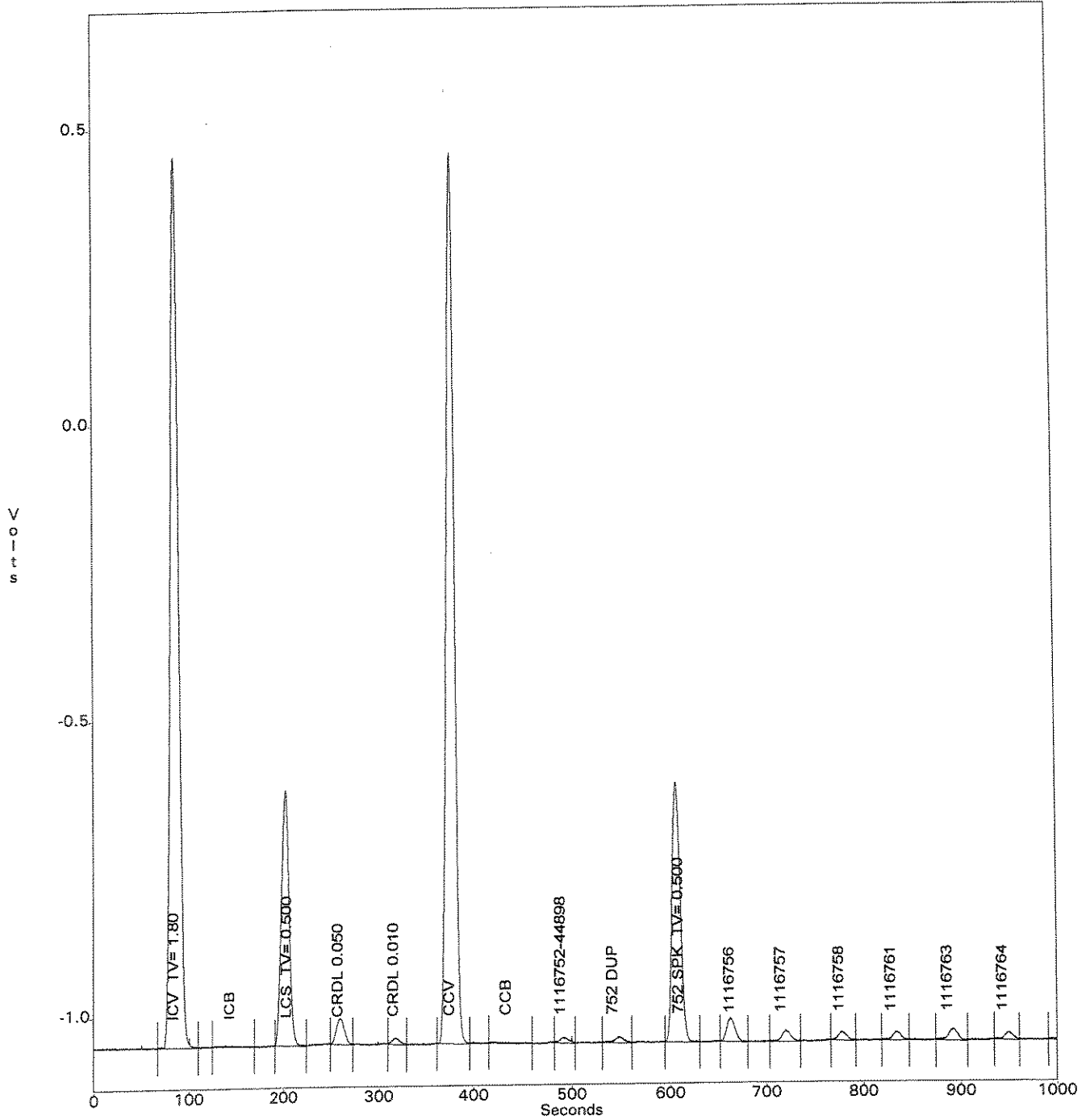
NMEAD
Jul 24, 2008 9:24:38
C:\OMNION\DATA\0807240A.FDT
C:\OMNION\TRAYS\0807240A.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
ACQ. TIME: Jul 24, 2008 9:38:39
DATA FILENAME: C:\OMNION\DATA\080724A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807240A.TRA

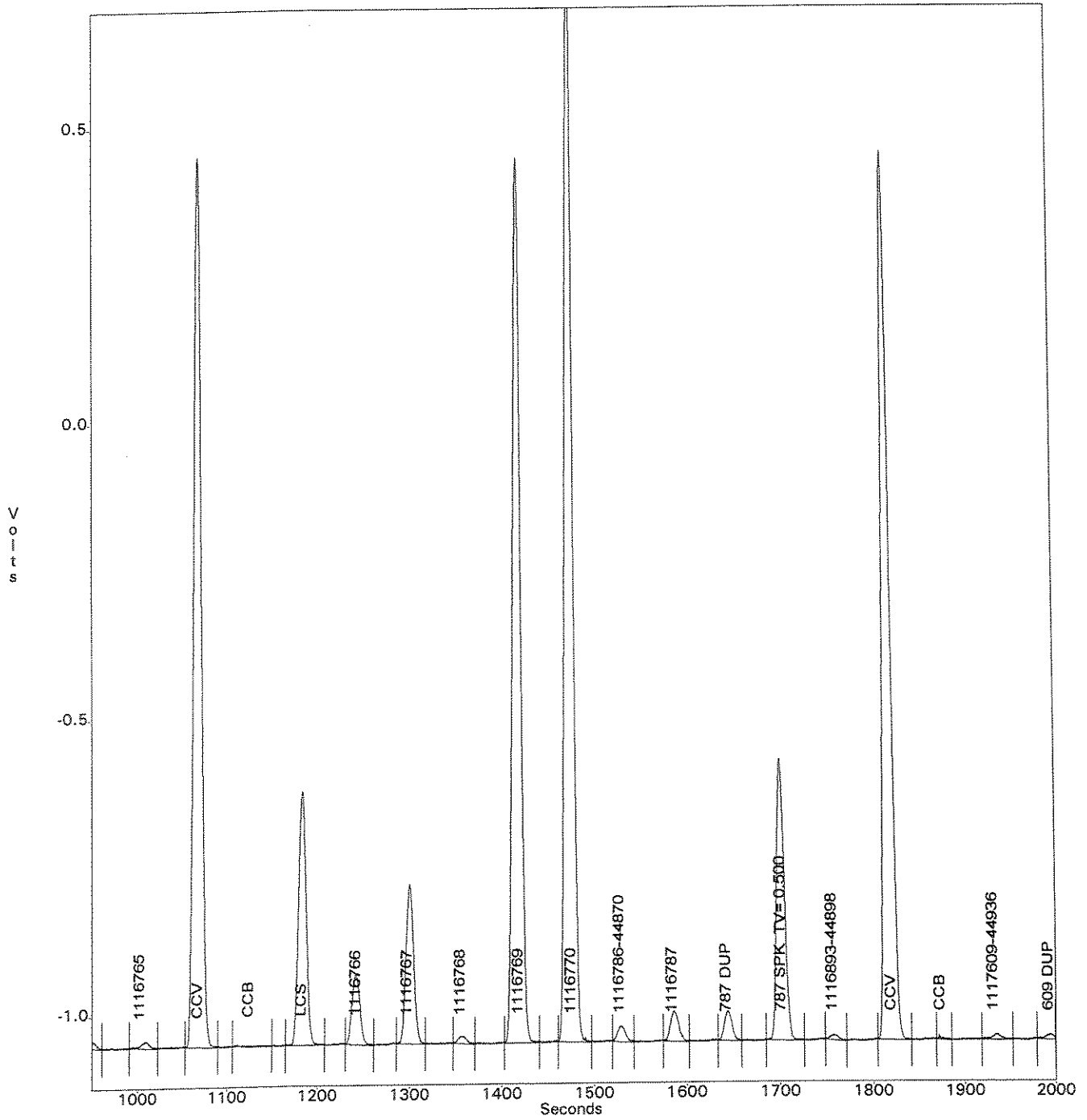
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

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Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.TRA

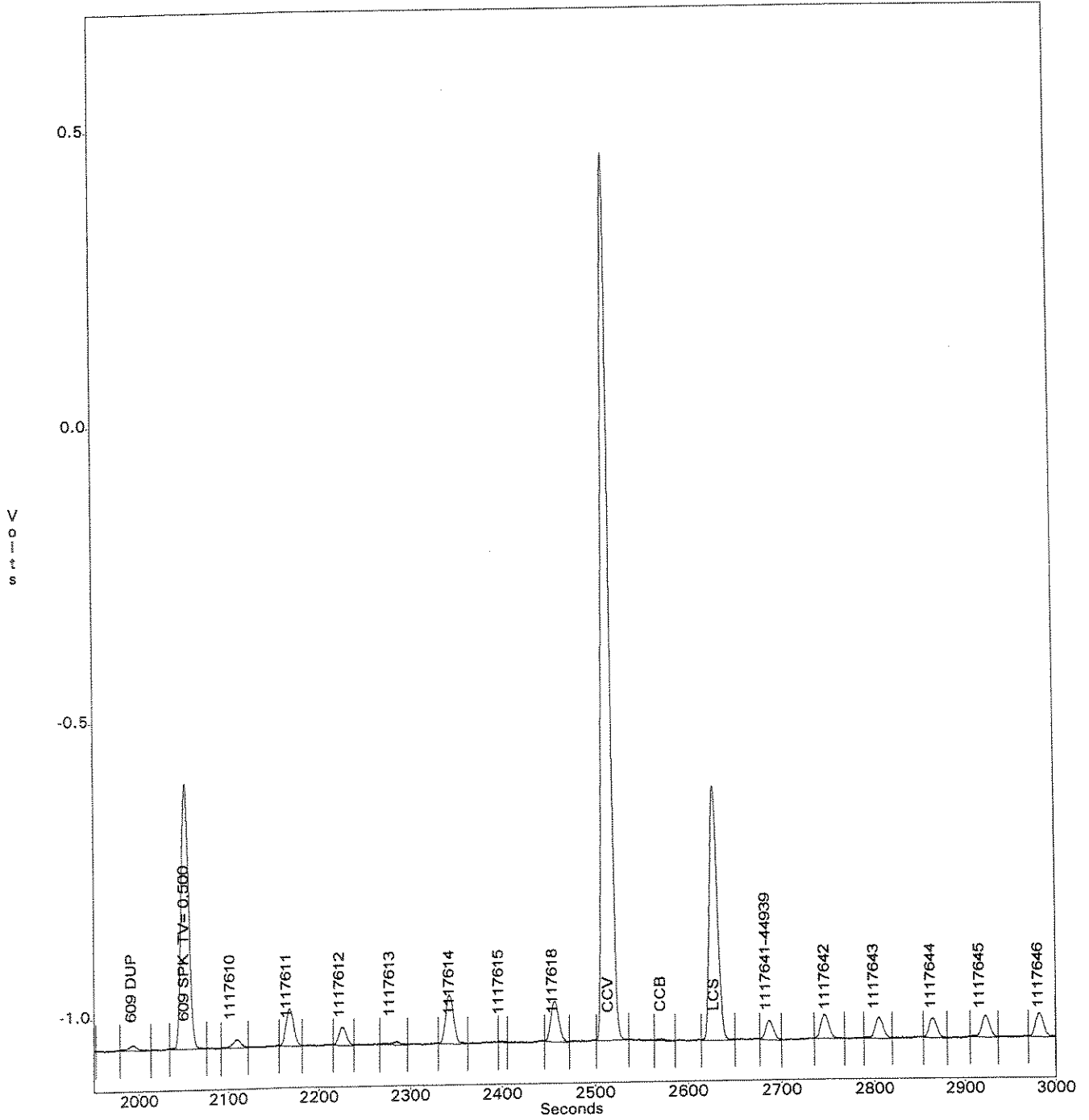
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.TRA

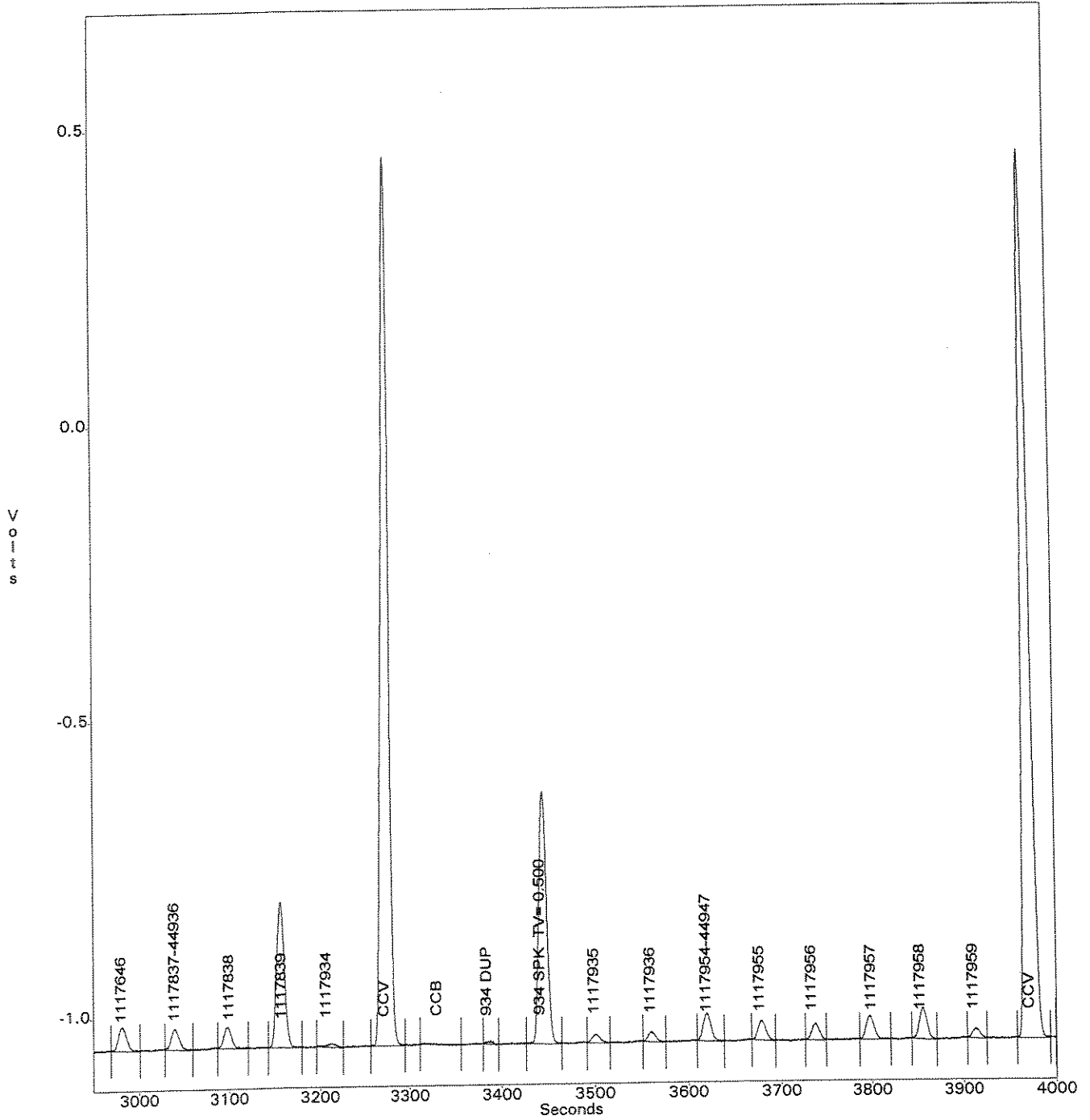
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.TRA

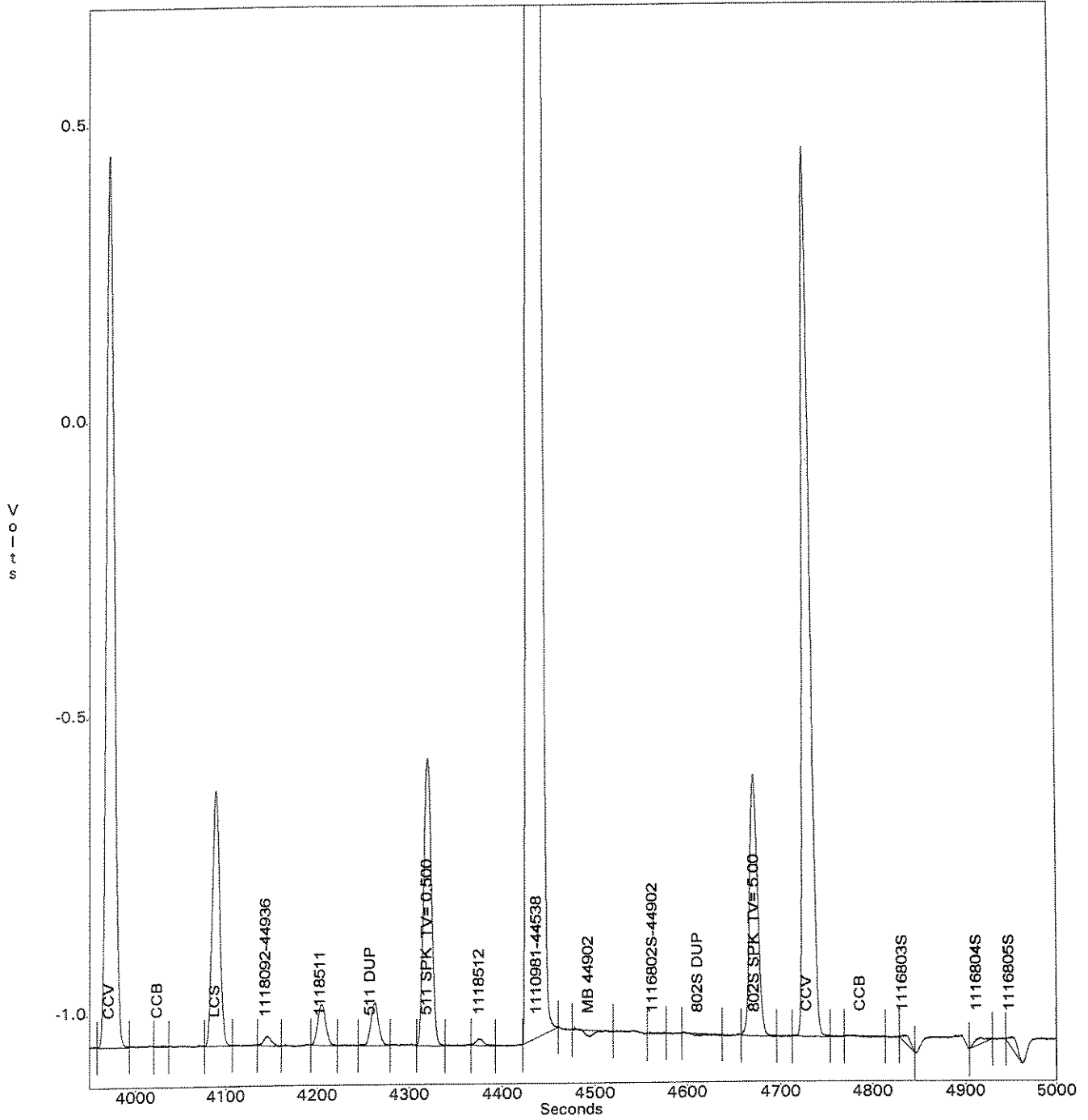
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.TRA

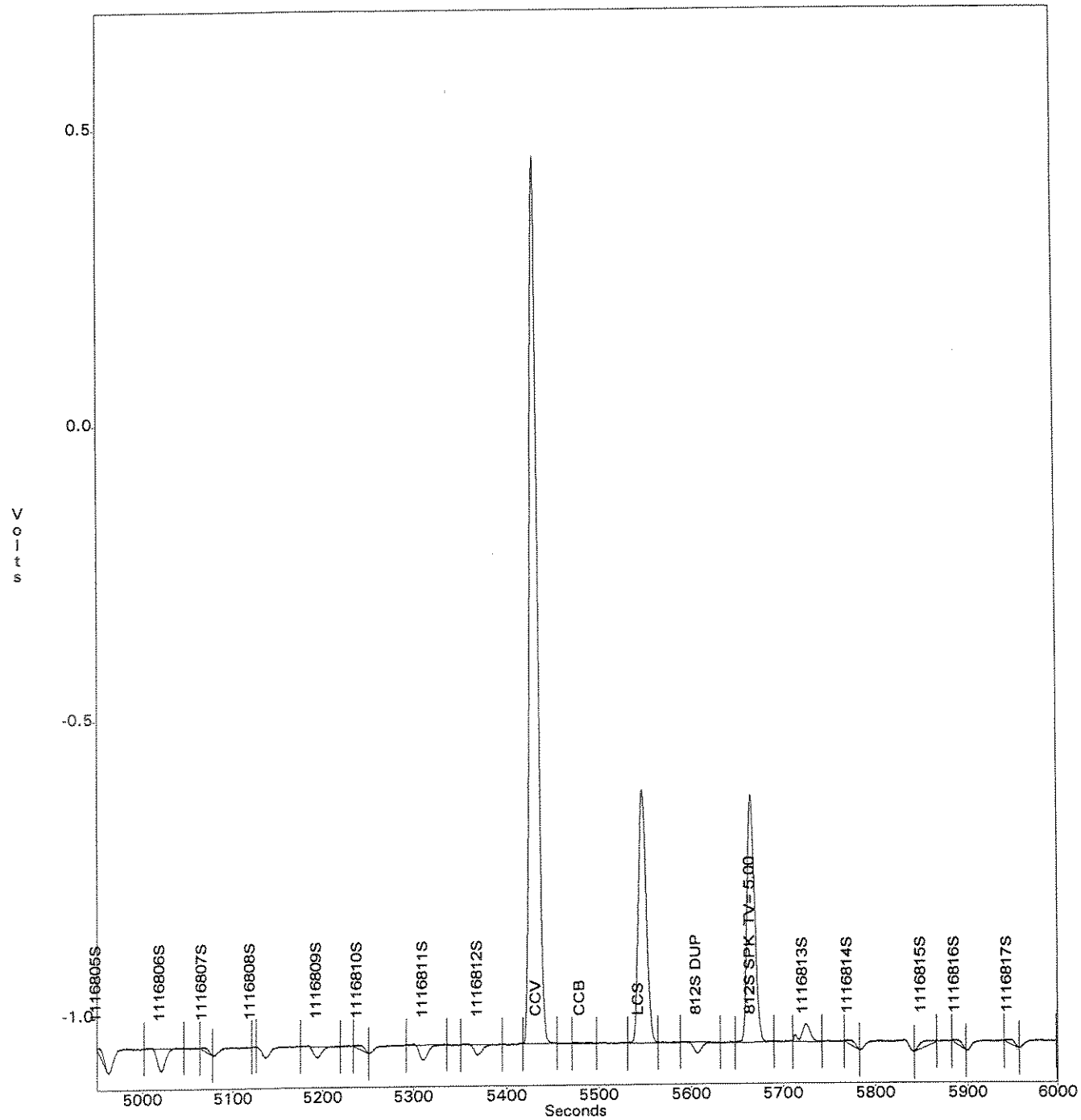
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

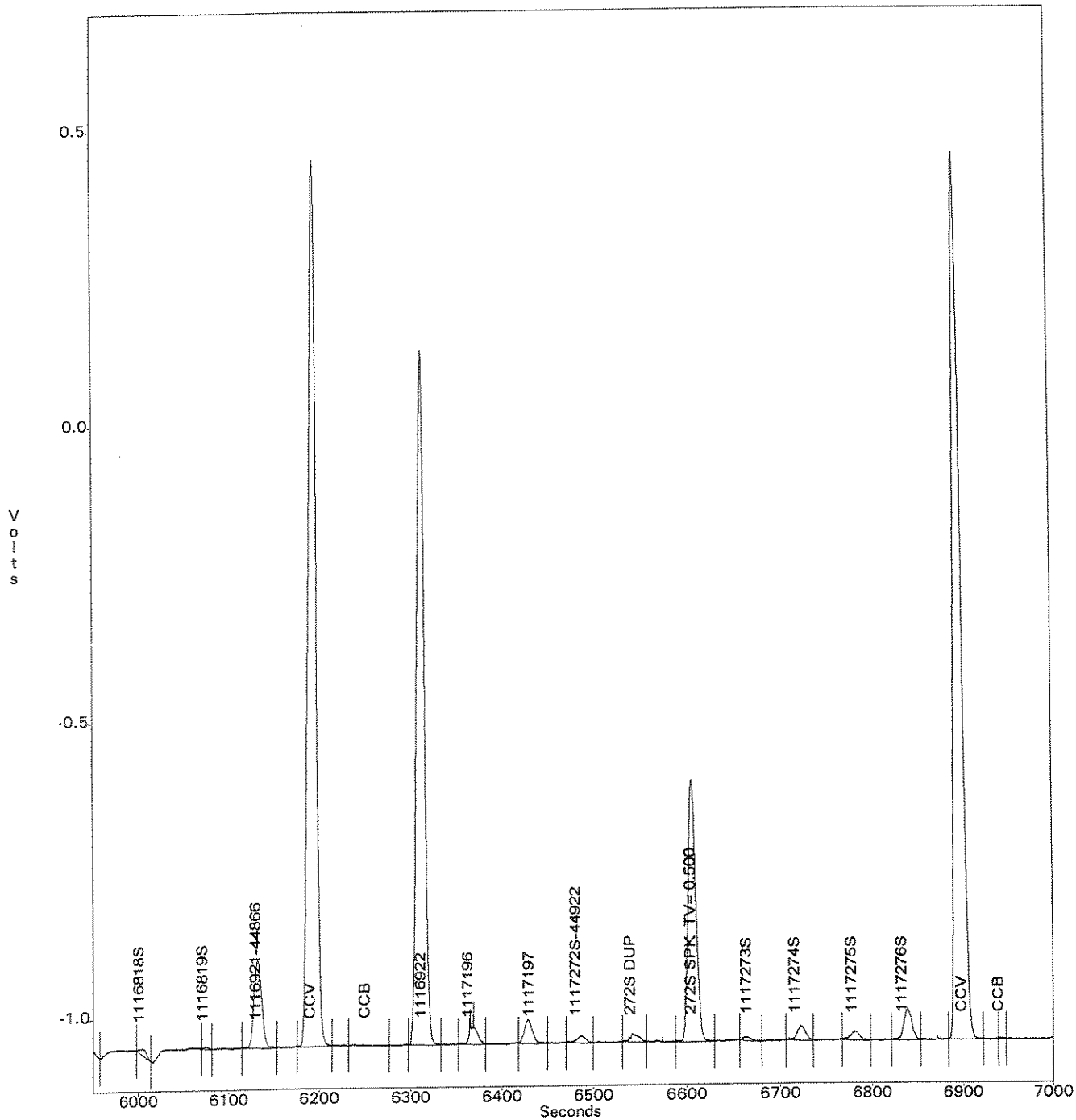
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Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.TRA

Channel 1 - QC 8000 350.1 Ammonia



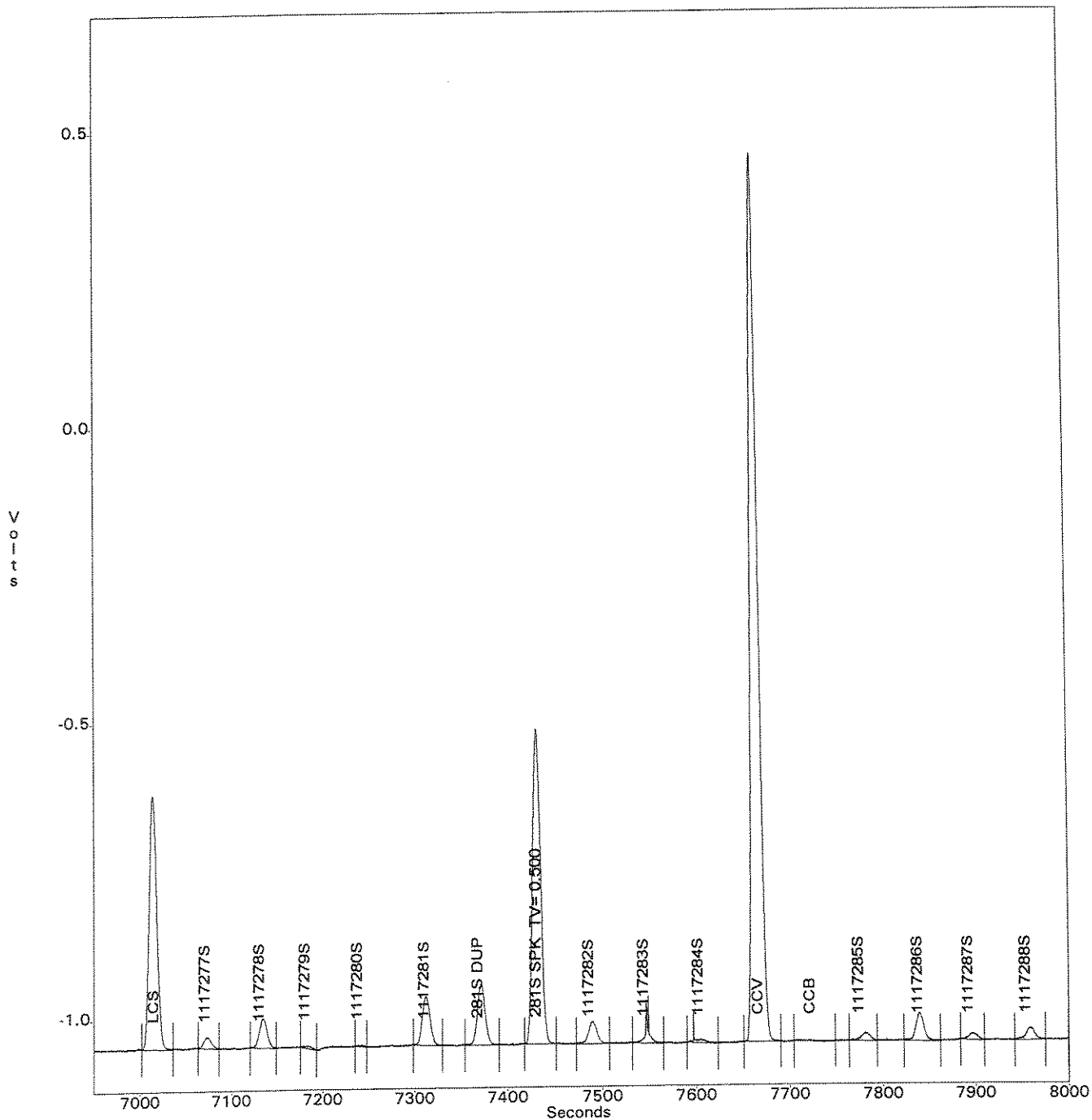
OPERATOR: NMEAD
ACQ. TIME: Jul 24, 2008 9:38:39
DATA FILENAME: C:\OMNION\DATA\080724A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807240A.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
ACQ. TIME: Jul 24, 2008 9:38:39
DATA FILENAME: C:\OMNION\DATA\080724A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807240A.TRA

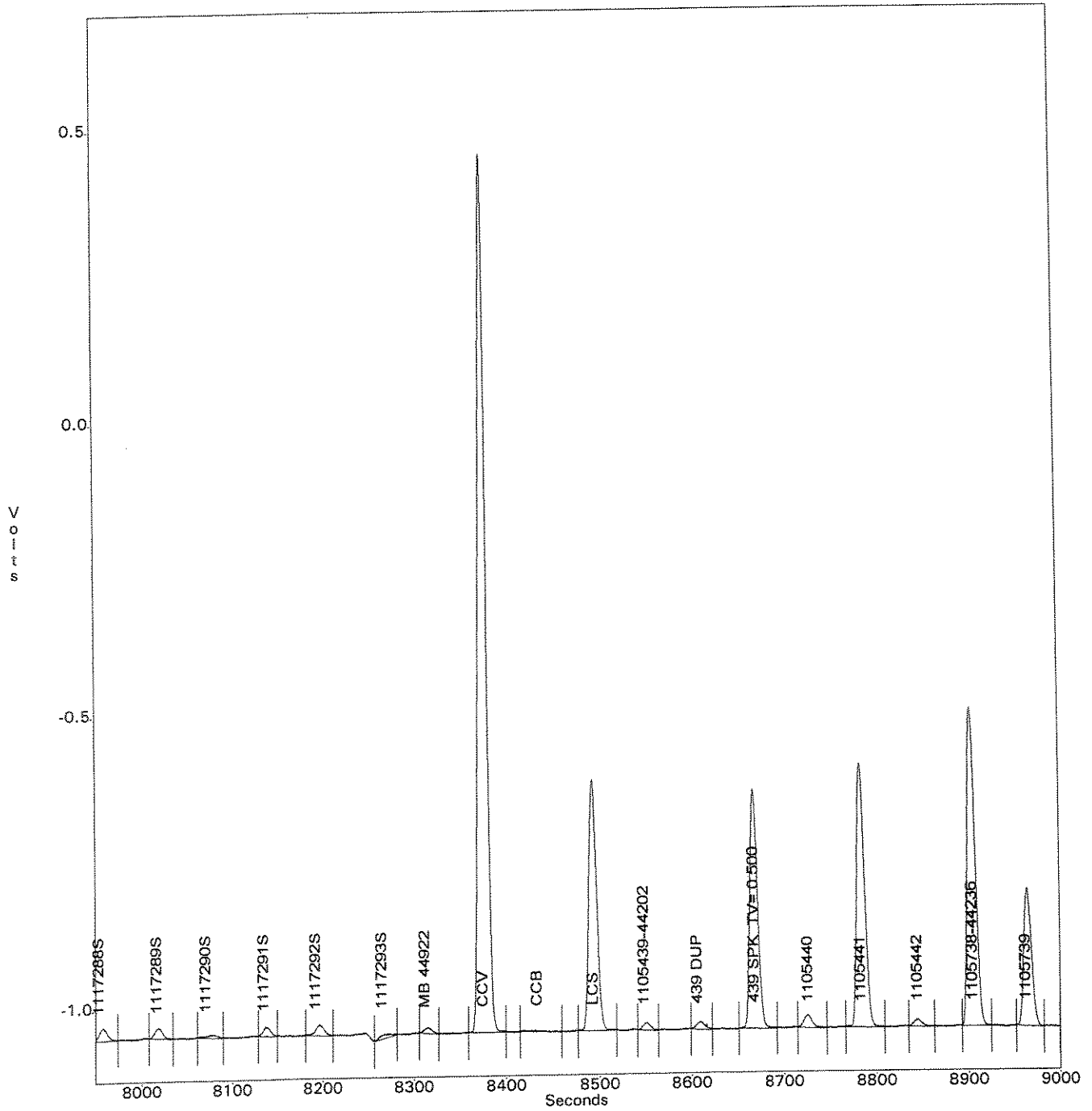
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

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Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.TRA

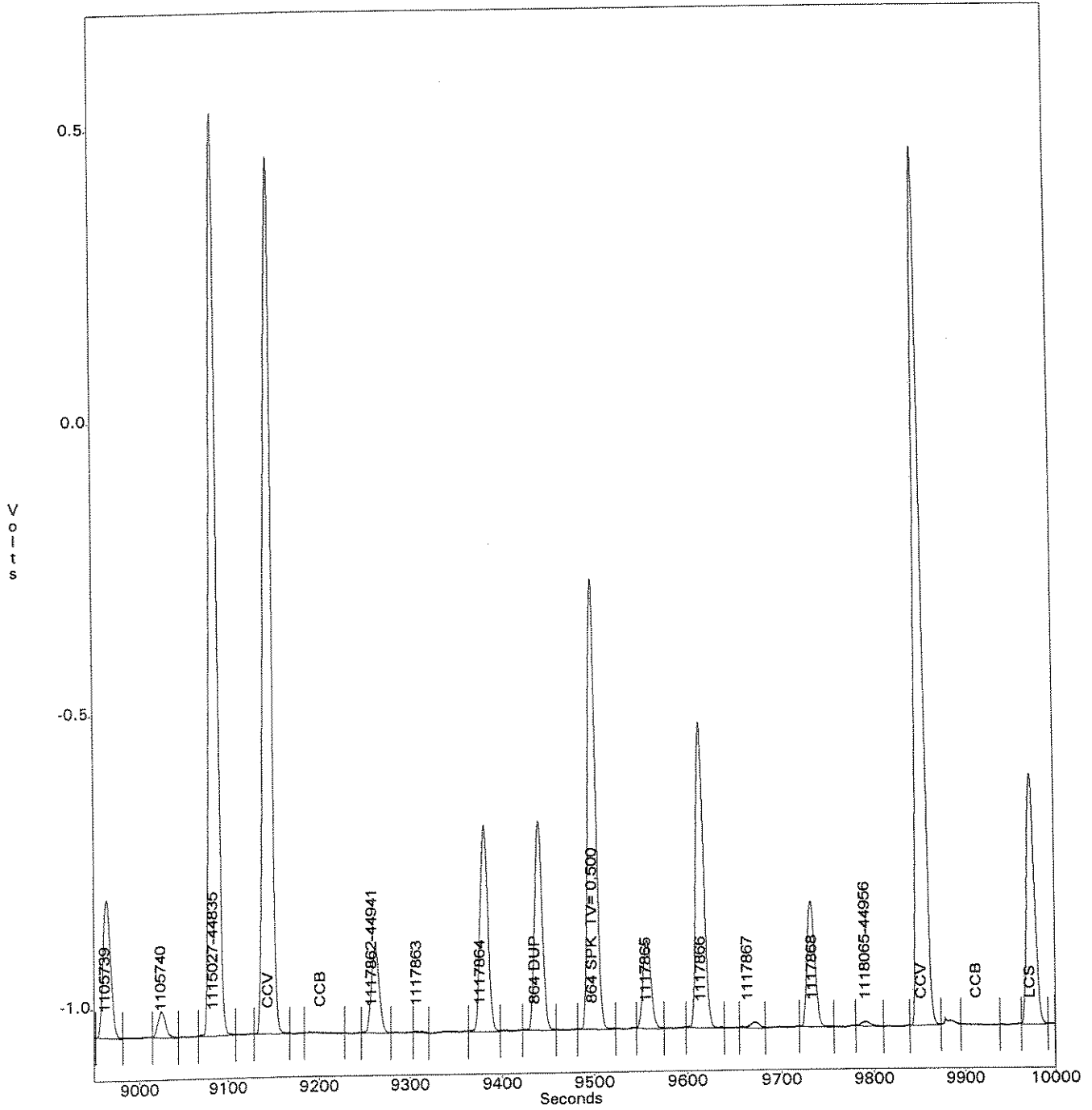
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.TRA

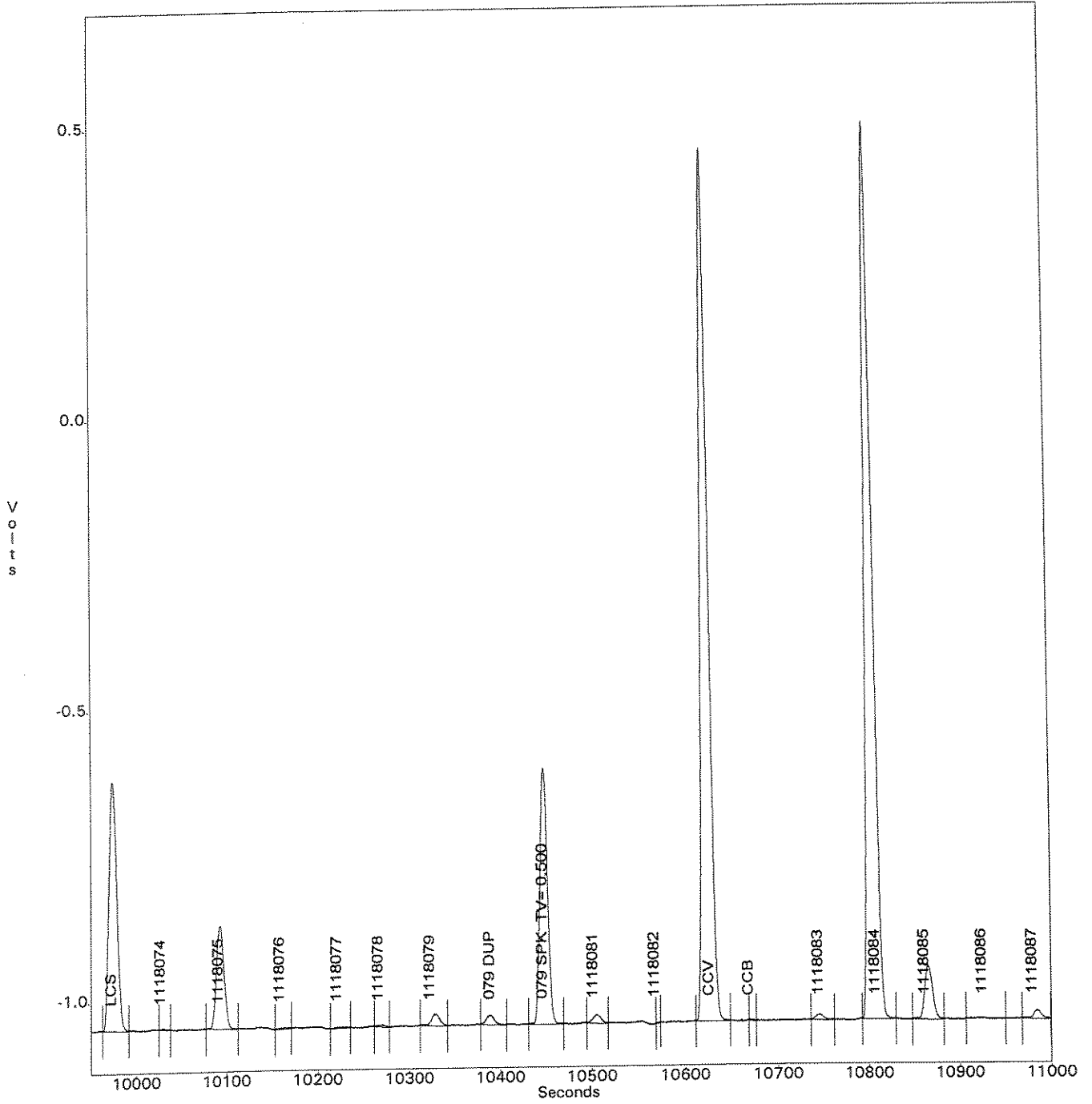
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.TRA

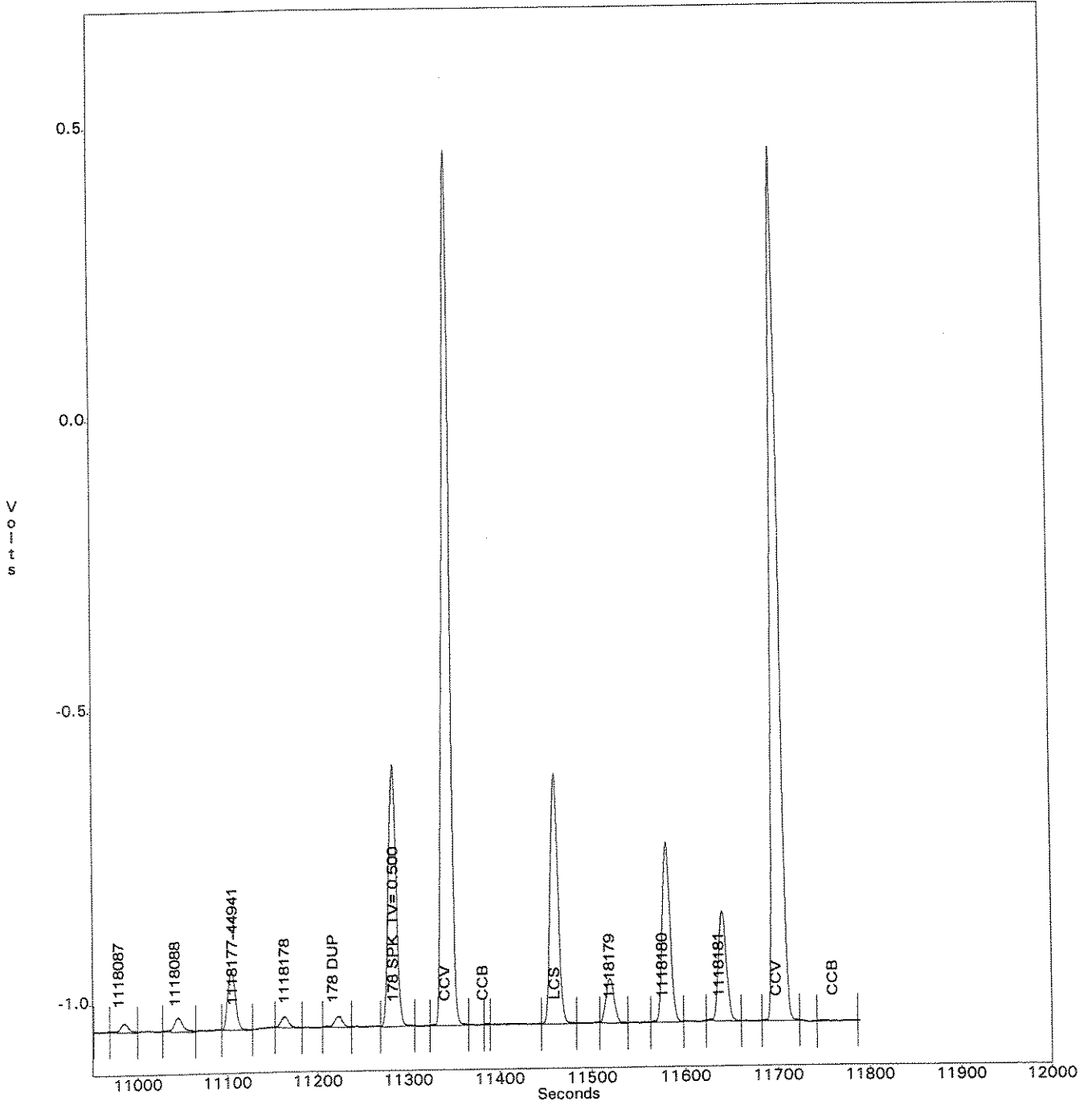
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 24, 2008 9:38:39
C:\OMNION\DATA\080724A1.FDT
C:\OMNION\TRAYS\0807240A.TRA

Channel 1 - QC 8000 350.1 Ammonia



Creator: NMEAD

Creation Date: Jul 23, 2008 15:59:47

Last Modified: Jul 24, 2008 13:38:42

Description: QC 8000 350.1 Ammonia - RUN LOG - 080724A2

Cup #	Sample ID	Manual Dilution	Sample Type	
1	1118182	1.0000	Unknown	
2	1118183	1.0000	Unknown	
3	1118184	1.0000	Unknown	
4	1118185	1.0000	Unknown	
5	1105431-44198	1.0000	Unknown	
6	1105432	1.0000	Unknown	
7	1115433	10.0000	Unknown	- rpt @ # 31-1/20
8	1118502-44941	1.0000	Unknown	
9	1118503	1.0000	Unknown	} neg. peaks - < PQL
10	503 DUP	1.0000	Unknown	
11	CCV	1.0000	Unknown	
12	CCB	1.0000	Unknown	
13	LCS	1.0000	Unknown	
14	503 SPK TV = 0.500	1.0000	Unknown	
15	1118504	1.0000	Unknown	
16	1105745-44237	10.0000	Unknown	
17	1105748-44237	1.0000	Unknown	
18	1119991-45063	1,000.0000	Unknown	
19	1116770 RPT 1/2	2.0000	Unknown	
20	1110981 RPT 1/20	20.0000	Unknown	- rpt @ # 32-str.
21	1116805S RPT 1/2	2.0000	Unknown	- neg. peak - < PQL
22	1116813S RPT 1/2	2.0000	Unknown	- neg. peak - < PQL
23	1117196 RPT	1.0000	Unknown	
24	CCV	1.0000	Unknown	
25	CCB	1.0000	Unknown	
26	1117283S RPT	1.0000	Unknown	
27	1117284S RPT	1.0000	Unknown	
28	1118085 RPT STR	1.0000	Unknown	
29	1118087 RPT STR	1.0000	Unknown	
30	1118088 RPT 1/2	2.0000	Unknown	
31	1115433 RPT 1/20	20.0000	Unknown	
32	1110981 RPT STR	1.0000	Unknown	- rpt @ # 34-1/2
33	BLANK	1.0000	Unknown	
34	1110981 RPT 1/2	2.0000	Unknown	- rpt @ # 35-1/5
35	1110981 RPT 1/5	5.0000	Unknown	- rpt @ # 39-1/10
36	CCV	1.0000	Unknown	
37	CCB	1.0000	Unknown	
38	LCS	1.0000	Unknown	
39	1110981 RPT 1/10	10.0000	Unknown	- rpt @ # 40-1/20
40	1110981 RPT 1/20	20.0000	Unknown	- rpt @ # 1-tray 3-1/40

Cup #	Sample ID	Manual Dilution	Sample Type	
41	CCV	1.0000	Unknown	
42	CCB	1.0000	Unknown	

OPERATOR: NMEAD
 ACQ. TIME: Jul 24, 2008 12:57:51
 DATA FILENAME: C:\OMNION\DATA\080724A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080724A2.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	1118182	24 Jul 2008	12:57:54	1	0.0274	1.0	1.00
2	1118183	24 Jul 2008	12:58:53	1	0.1241	1.0	1.00
3	1118184	24 Jul 2008	12:59:51	1	-0.0032	1.0	1.00
4	1118185	24 Jul 2008	13:00:49	1	0.9423	1.0	1.00
5	1105431-44198	24 Jul 2008	13:01:47	1	0.0516	1.0	1.00
6	1105432	24 Jul 2008	13:02:45	1	0.0749	1.0	1.00
7	1115433	24 Jul 2008	13:03:44	1	20.5043	10.0	1.00
8	1118502-44941	24 Jul 2008	13:04:41	1	1.0513	1.0	1.00
9	1118503	24 Jul 2008	13:05:38	1	-0.0032	1.0	1.00
10	503 DUP	24 Jul 2008	13:06:35	1	0.0067	1.0	1.00
11	CCV	24 Jul 2008	13:07:32	1	1.7810	1.0	1.00
12	CCB	24 Jul 2008	13:08:29	1	-0.0032	1.0	1.00
13	LCS	24 Jul 2008	13:09:26	1	0.5015	1.0	1.00
14	503 SPK TV= 0.500	24 Jul 2008	13:10:23	1	0.3285	1.0	1.00
15	1118504	24 Jul 2008	13:11:21	1	0.0028	1.0	1.00
16	1105745-44237	24 Jul 2008	13:12:19	1	14.4294	10.0	1.00
17	1105748-44237	24 Jul 2008	13:13:18	1	0.1336	1.0	1.00
18	1119991-45063	24 Jul 2008	13:14:16	1	1593.4902	1000.0	1.00
19	1116770 RPT 1/2	24 Jul 2008	13:15:14	1	2.3435	2.0	1.00
20	1110981 RPT 1/20	24 Jul 2008	13:16:13	1	1.6854	20.0	1.00
21	1116805S RPT 1/2	24 Jul 2008	13:17:11	1	-0.0062	2.0	1.00
22	1116813S RPT 1/2	24 Jul 2008	13:18:09	1	0.0318	2.0	1.00
23	1117196 RPT	24 Jul 2008	13:19:07	1	0.0628	1.0	1.00
24	CCV	24 Jul 2008	13:20:05	1	1.7703	1.0	1.00
25	CCB	24 Jul 2008	13:21:02	1	-0.0032	1.0	1.00

-rpt @ # 31-1/20

} neg. peaks - <PQL

-rpt @ # 32-str + report this result
 = 25.00 } neg. peaks -
 non 24/08 }
 = 0.318 } 25.00 <PQL

20 → 25.00
 ↓

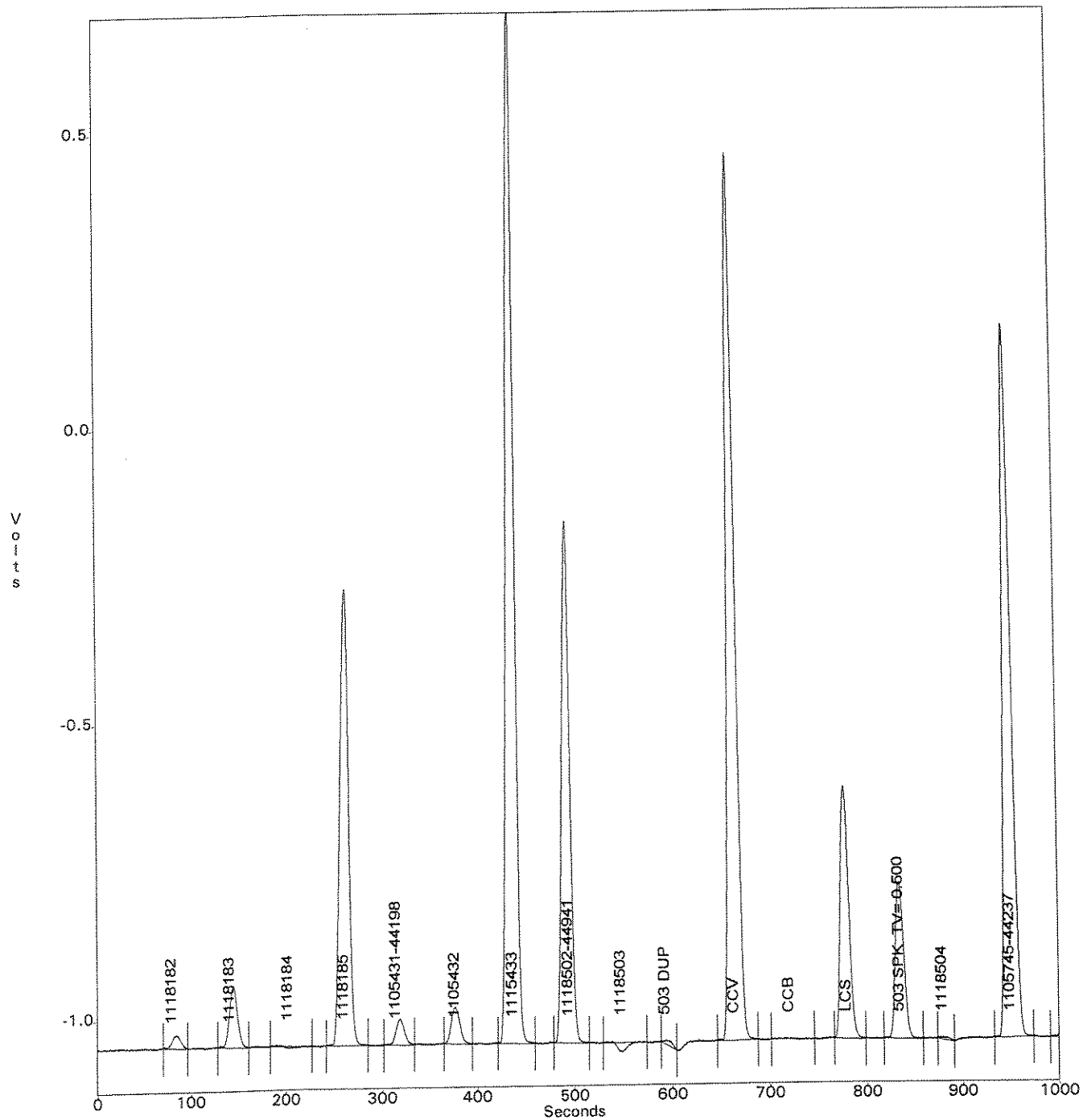
OPERATOR: NMEAD
 ACQ. TIME: Jul 24, 2008 12:57:51
 DATA FILENAME: C:\OMNION\DATA\080724A2.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\080724A2.TRA

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	1117283S RPT	24 Jul 2008	13:22:00	1	0.0195	1.0	1.00 = 0.195
27	1117284S RPT	24 Jul 2008	13:22:57	1	0.0049	1.0	1.00 = 5.00
28	1118085 RPT STR	24 Jul 2008	13:23:54	1	0.1826	1.0	1.00
29	1118087 RPT STR	24 Jul 2008	13:24:51	1	0.6736	1.0	1.00
30	1118088 RPT 1/2	24 Jul 2008	13:25:48	1	2.2590	2.0	1.00
31	1115433 RPT 1/20	24 Jul 2008	13:26:47	1	21.6011	20.0	1.00 - pt @ # 32-5tr.
32	1110981 RPT STR	24 Jul 2008	13:27:47	1	15.3217	1.0	1.00 - pt @ # 34-1/2
33	BLANK	24 Jul 2008	13:28:46	1	-0.0032	1.0	1.00
34	1110981 RPT 1/2	24 Jul 2008	13:32:09	1	22.9515	2.0	1.00 - pt @ # 35-1/5
35	1110981 RPT 1/5	24 Jul 2008	13:33:07	1	16.6478	5.0	1.00 - pt @ # 39-1/10
36	CCV	24 Jul 2008	13:34:51	1	1.7701	1.0	1.00
37	CCB	24 Jul 2008	13:38:46	1	-0.0032	1.0	1.00
38	LCS	24 Jul 2008	13:39:44	1	0.5085	1.0	1.00
39	1110981 RPT 1/10	24 Jul 2008	13:40:42	1	4.7017	10.0	1.00 - pt @ # 40-1/20
40	1110981 RPT 1/20	24 Jul 2008	13:41:40	1	1.5322	20.0	1.00 - pt @ # 1-tray3-1/40
41	CCV	24 Jul 2008	13:42:37	1	1.7685	1.0	1.00
42	CCB	24 Jul 2008	13:43:35	1	0.0008	1.0	1.00

OPERATOR: NMEAD
ACQ. TIME: Jul 24, 2008 12:57:51
DATA FILENAME: C:\OMNION\DATA\080724A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080724A2.TRA

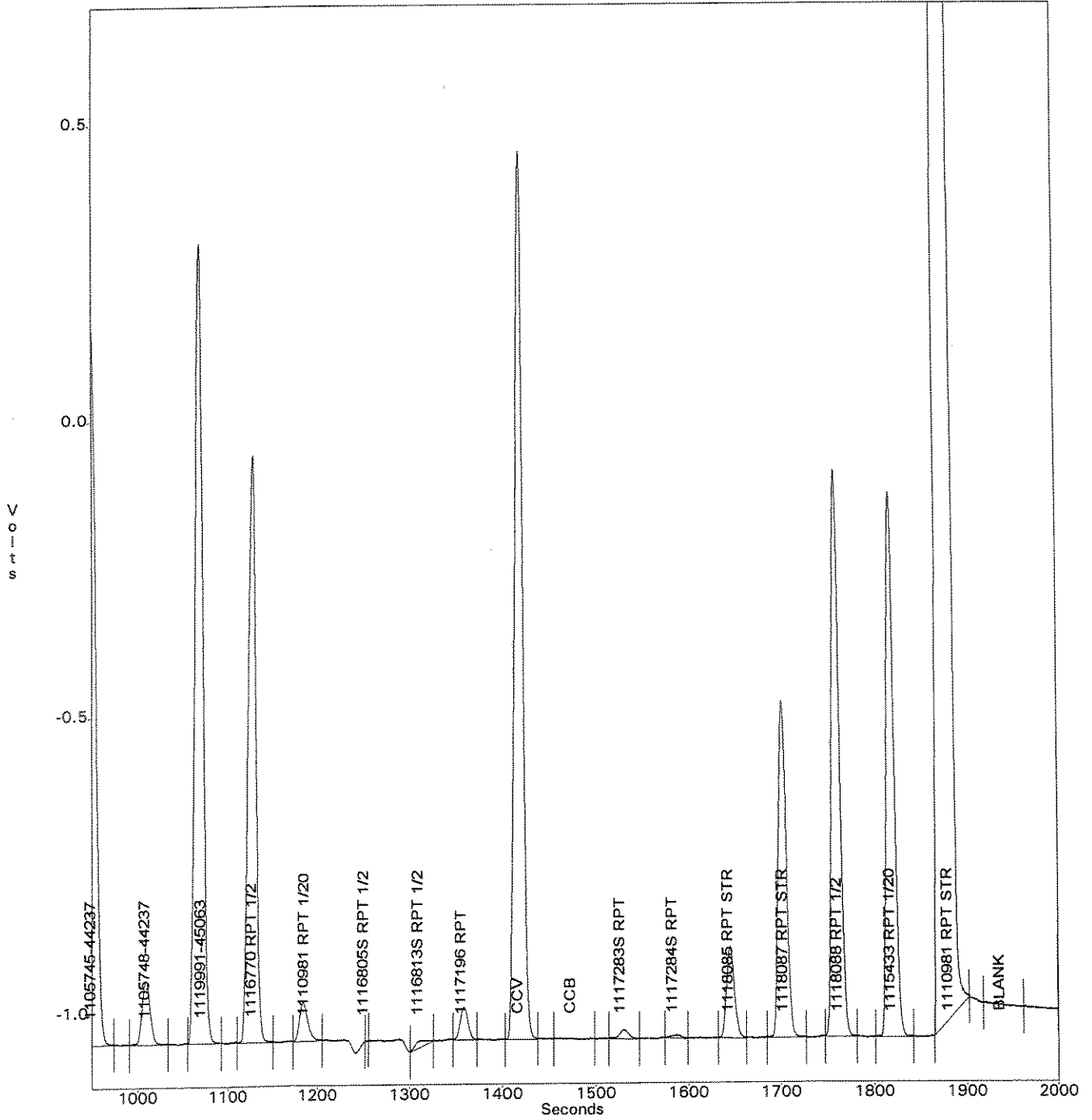
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 24, 2008 12:57:51
C:\OMNION\DATA\080724A2.FDT
C:\OMNION\TRAYS\080724A2.TRA

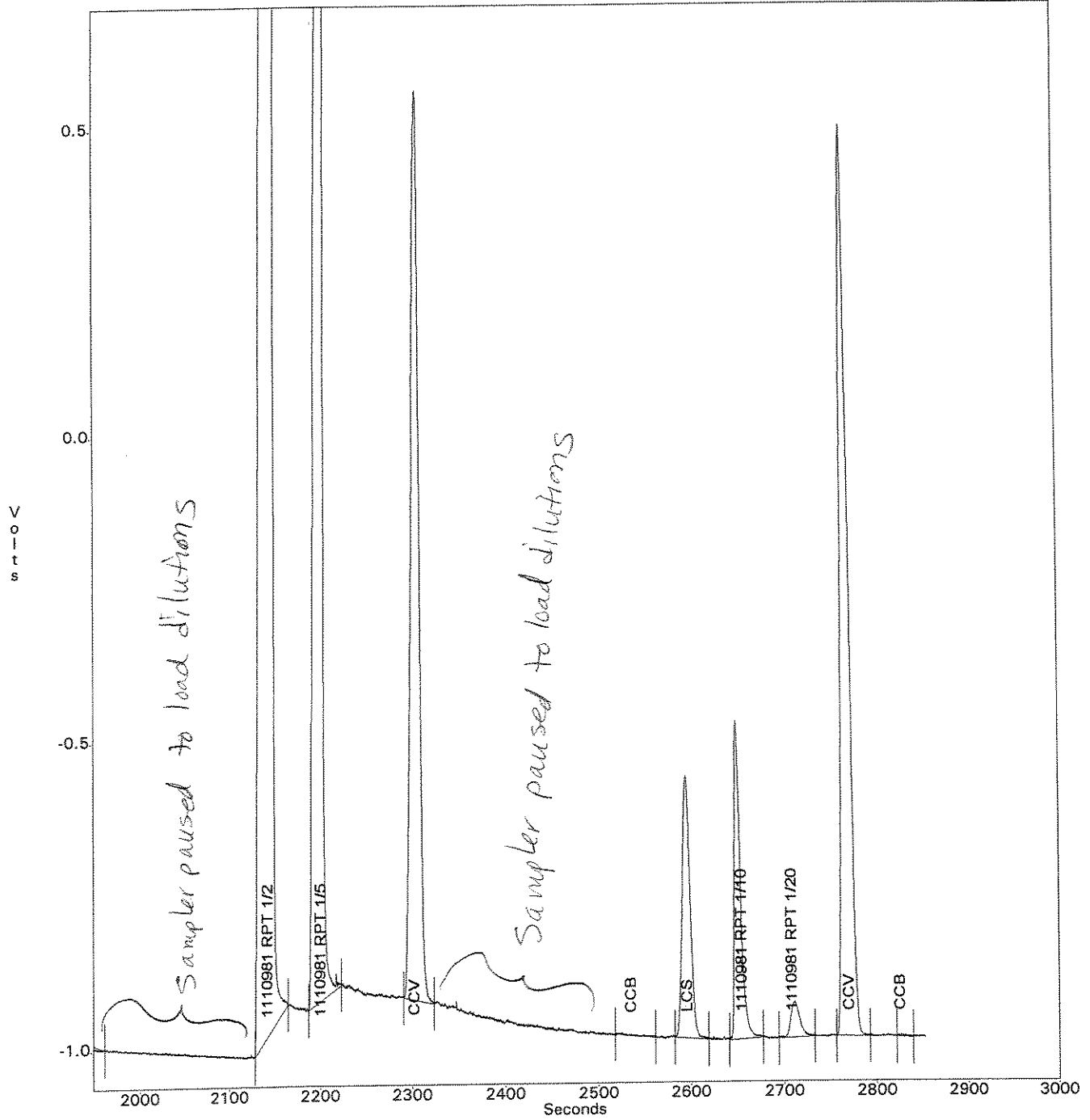
Channel 1 - QC 8000 350.1 Ammonia



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 24, 2008 12:57:51
C:\OMNION\DATA\080724A2.FDT
C:\OMNION\TRAYS\080724A2.TRA

Channel 1 - QC 8000 350.1 Ammonia



Creator: NMEAD

Creation Date: Jul 24, 2008 13:46:08

Last Modified: Jul 24, 2008 13:46:08

Description: QC 8000 350.1 Ammonia - RUN LOG - 080724A3

Cup #	Sample ID	Manual Dilution	Sample Type	
1	1110981 RPT 1/40	40.0000	Unknown	- report 1/20 result
2	CCV	1.0000	Unknown	
3	CCB	1.0000	Unknown	

OPERATOR: NMEAD
ACQ. TIME: Jul 24, 2008 13:48:14
DATA FILENAME: C:\OMNION\DATA\080724A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080724A3.TRA

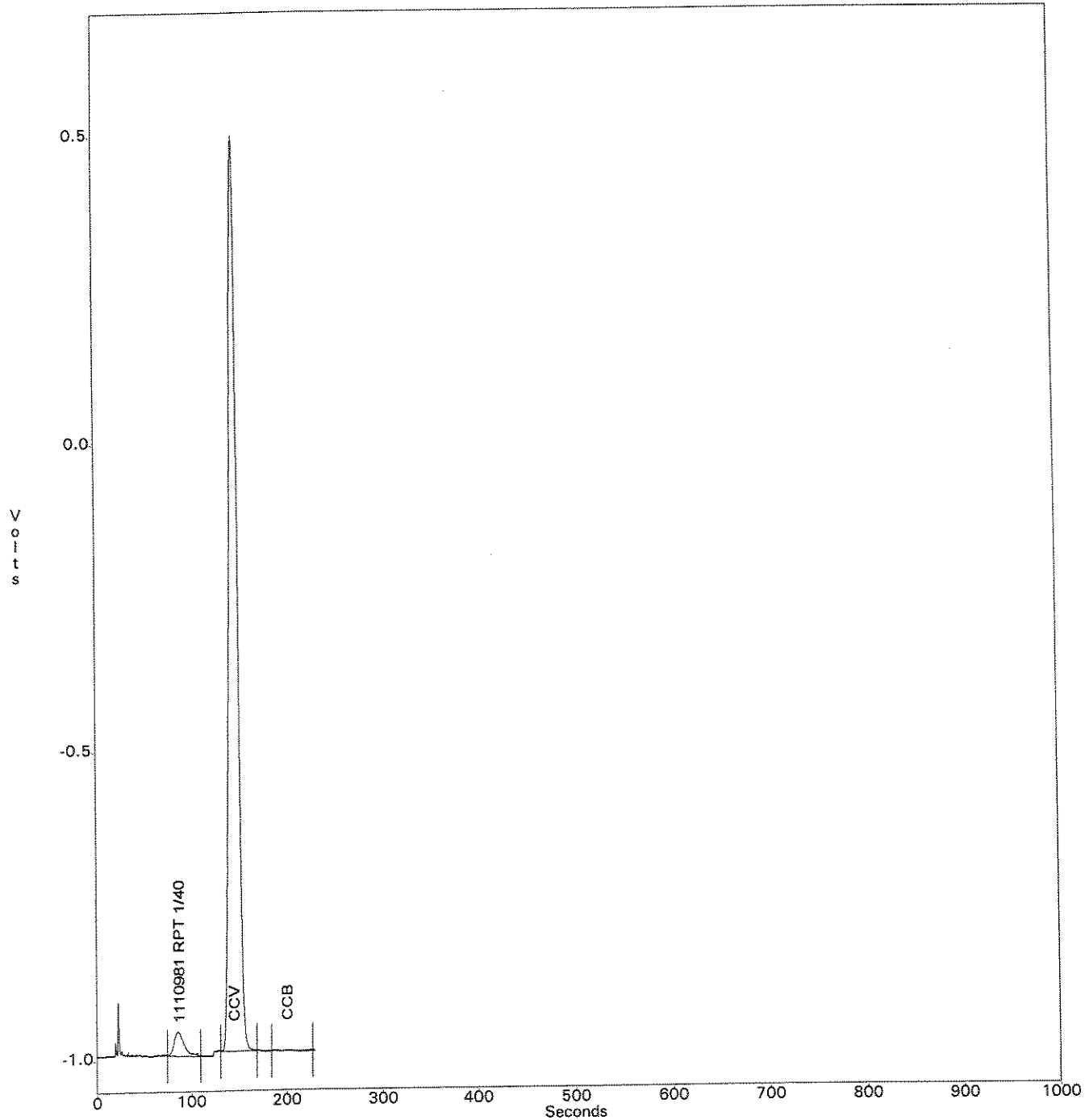
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
1	1110981 RPT 1/40	24 Jul 2008	13:48:17	1	2.2231	40.0	1.00
2	CCV	24 Jul 2008	13:49:16	1	1.7710	1.0	1.00
3	CCB	24 Jul 2008	13:50:14	1	-0.0032	1.0	1.00

first
- report 1/20 result

OPERATOR: NMEAD
ACQ. TIME: Jul 24, 2008 13:48:14
DATA FILENAME: C:\OMNION\DATA\080724A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080724A3.TRA

Channel 1 - QC 8000 350.1 Ammonia



OPERATOR: NMEAD
 ACQ. TIME: Jul 24, 2008 9:24:38
 DATA FILENAME: C:\OMNION\DATA\0807240A.FDT
 METHOD FILENAME:
 TRAY FILENAME: C:\OMNION\TRAYS\0807240A.TRA

TRAY DESCRIPTION:
 Created: Jul 23, 2008 15:57:45
 Modified: Jul 23, 2008 15:57:45
 QC 8000 350.1 Ammonia - RUN LOG -0807240A
 DATA DESCRIPTION:
 Created: Jul 24, 2008 9:24:38
 Modified: Jul 24, 2008 9:24:38

Method - Ch. 1 (QC 8000 350.1 Ammonia)

METHOD DESCRIPTION:
 Created: Jun 8, 2007 13:44:01
 Modified: Jul 17, 2008 14:51:33
 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

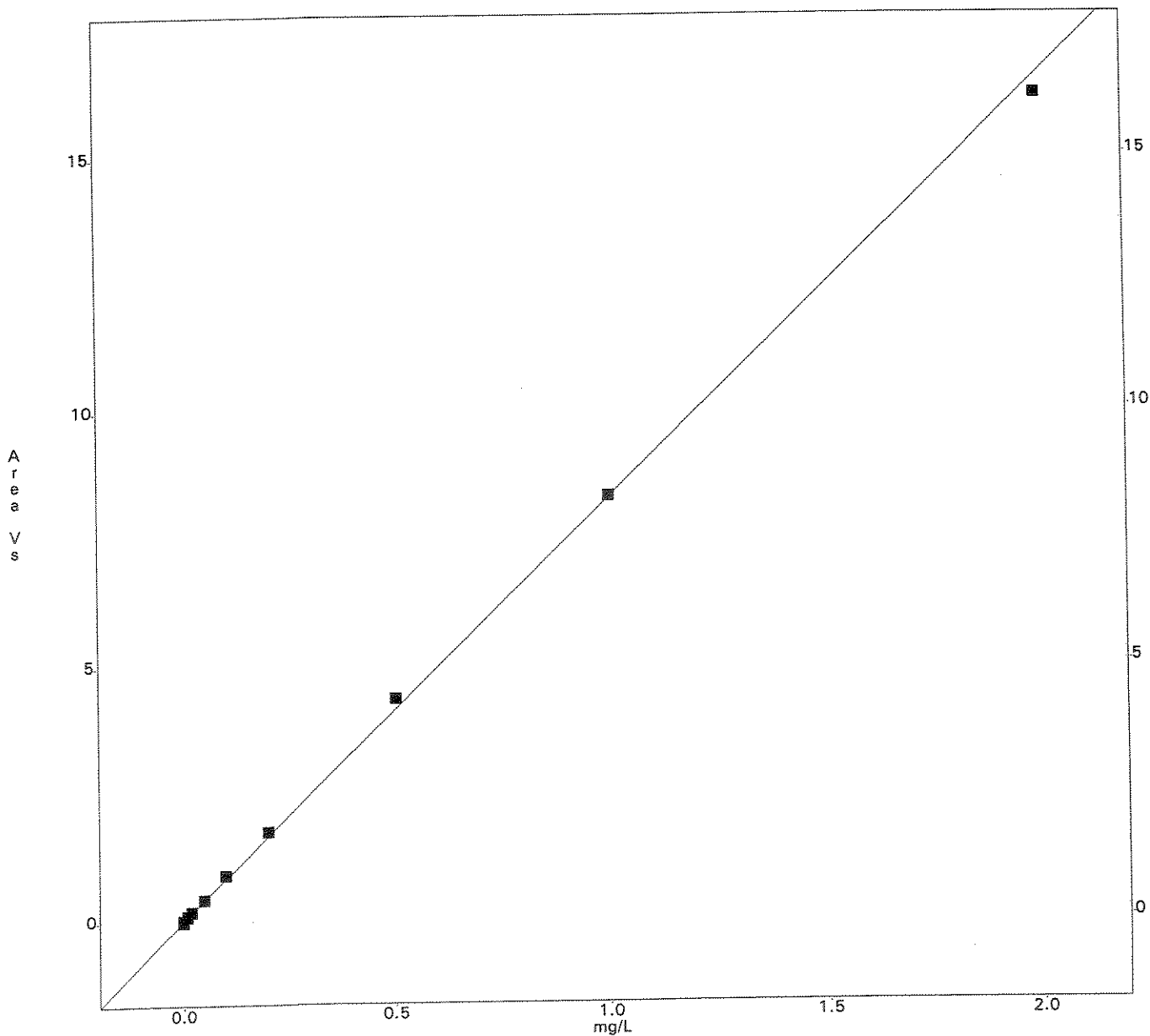
QC 8000 350.1 Ammonia

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	16155059	2.00	16155059					0.0	0.0	2.3
2	8297735	1.00	8297735					0.0	0.0	-0.2
3	4355060	0.50	4355060					0.0	0.0	-4.9
4	1762352	0.20	1762352					0.0	0.0	-5.1
5	916563	0.10	916563					0.0	0.0	-7.8
6	438998	0.05	438998					0.0	0.0	0.0
7	203894	0.02	213190	194598				13146.5	6.4	-7.5
8	116278	0.01	108555	124000				10921.3	9.4	-8.8
9	20904	0.00	41808	0				29562.7	141.4	

pipette FD - E-1

1st Order Poly
 Conc = 1.211e-007 Area - 3.206e-003
 r = 0.9996

Scaling: None - Weighting: 1/X



Printed: Thursday, July 24, 2008 - 09:37 AM

Columbia Analytical Services
 1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: N. Mead

Date: 7/24/08

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: _____

4/7/03
DMGAmmonia (NH_3) [LaChat: pp1 = 0.050 - Reg Level, 0.010 - Low Level]

(A) STANDARDS

STD.	CONC (mg/L)	mls 100ppm (wcb5166C)	mls Carrier-Diluent (wcb5165F)
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	$\frac{1}{10}$ Dil'n of STD B.) 1.000	
F	0.050	$\frac{1}{10}$ Dil'n of STD C.) 0.500	
G	0.020	$\frac{1}{10}$ Dil'n of STD D.) 0.200	
H	0.010	$\frac{1}{10}$ Dil'n of STD E.) 0.100	
I	0.000	10 mls of Carrier-Diluent	

(B) TeV/CCV: (TV = 1.80 mg/L)

Do two (2) $\frac{1}{10}$ serial dilutions of the 180 ppm Reference Stock (wcb5156B). Prepare using Carrier-Diluent (wcb5165F)

(C) 10.0 ppm Working Stock

Do two (2) $\frac{1}{10}$ serial dilutions of the 1000 ppm Standard Stock (wcb5156A). Prepare using Carrier-Diluent (wcb5165F)

(D) LES/Matrix Spike: (TV = 0.500 mg/L)

Add 0.050 mls 100 ppm Working Stock (wcb5166C, 1st $\frac{1}{10}$ serial dilution) to 10 mls Carrier-Diluent (wcb5165F) or sample.

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 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.

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)
 Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Date: 6/17/08 ✓

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY 120.1			TEMP °C	Analyst	Time	HT** (y/n)	Meter* J/VWR
				raw data	units	mhos/cm					
MB	CCB	7.147		0.438	uS	0.438	20°	RC	1125		J
CCV	4.0/146.9	3.998		148.2	uS	148.2	↓	↓	1845		↓
R2-44495 1109140 out of range RC 6/17/08											
	↓ 141		8.258				20°	RC	1845	Y	J
	↓ 142		6.798				↓	↓	↓	↓	↓
	↓ 143		7.889				21°	↓	↓	↓	↓
R2-44499 1109143 dup out of range RC 6/17/08											
R2-44499	1109143 dup		9.925				20°	RC	1845	Y	J
R2-44538	1109108	6.068					↓	↓	↓	↓	↓
R2-44557	1109953	8.192		0.688	mS	688	17°	↓	↓	↓	↓
	↓ 955	7.848		0.821	mS	821	↓	↓	↓	↓	↓
	↓ 952	8.526		0.446	mS	446	↓	↓	↓	↓	↓
	↓ 954	8.240		161.2	uS	161.2	↓	↓	↓	↓	↓
R2-43978	1101850	8.134					15°	RC	↓	↓	↓
CCV	4.0/2767	8.199 4.047		2.70	mS	2700	20°	RC	↓	↓	↓
R2-44557	1109954 dup	8.269		161.0	uS	161.0	17°	↓	↓	Y	↓
R2-44499	1109140		11.062				20°	↓	1955	↓	↓
	↓ 144		10.275				↓	↓	↓	↓	↓
	↓ 144 dup		10.265				↓	↓	↓	↓	↓
CCV	12.45	12.425					↓	↓	↓	↓	↓
RC 6/17/08											

*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 6.973 TEMP. 19.4°C

LOT #: BDB2674H BDB2680E BDB2680E

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes / NO)

LOT #: BDB2684E

★ Recall to high range by RC @ 1955 on 6/17/08

Cell Constant: 1.109 7.0 ✓ BDB2680E

N KCL: 2767 LOT #: BDB2684D

Reading 2660 12.45 ✓ BDB2683F

10% Limits: 2490.3 to 3043.7

N KCL: 146.9 LOT #: BDB2684E

Reading 148.6

10% Limits: 132.2 TO 161.6

ICV ✓ 10.0 10.32 BDB2680E

Temp 20°C

uS = 1 umhos/cm

mS = 1,000 umhos/cm

S = 1,000,000 umhos/cm

70

Analyst: RC

DATE: 6/17/08 TIME: 11:26

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)
 Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Date: 6/19/08 ✓

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY 120.1			TEMP °C	Analyst	Time	HT** (y/n)	Meter* J/VWR
				raw data	units	mhos/cm					
CCB	MB	6.292		0.350	uS	0.350	22°	RG	1010		J
CCV	10.0/146.9	10.029		146.8	uS	146.8	19°		1440		J
R2-44557	1110504	5.658		1.156	uS	1.156				Y	
	504	6.974		31.5	uS	31.5					
	505	6.990		34.0	uS	34.0					
	505dup	7.317		61.0	uS	61.0					
	506	7.097		46.2	uS	46.2					
R2-44538	1110532	7.203					20°				
R2-44586	576	1110578 7.438									
	577	7.331									
R2-44252	1110578	7.628					19°				
	579	7.470									
	580	6.915									
CCV	10/2707	7.047		2.64	mS	2640					
CCB				0.120	uS	0.120					

*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 6.977 TEMP. 19.4°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: 1.112

N KCL: 2767 LOT #: BDB2684D Reading 2650
 10% Limits: 2490.3 to 3043.7

N KCL: 146.9 LOT #: BDB2684E Reading 149.1
 10% Limits: 132.2 TO 161.6

uS = 1 umhos/cm mS = 1,000 umhos/cm S = 1,000,000 umhos/cm

Analyst: [Signature] DATE: 6/19/08 TIME: 1005

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)
 Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Date: 6/20/08 ✓

FD
19AB
dup
etc

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY 120.1			TEMP °C	Analyst	Time	HT** (y/n)	Meter* J/VWR
				raw data	units	mhos/cm					
		6.141		0.429	uS	0.429	22°	RD	1150		J
MB	CCB	6.141					21°			Y	
R2-44538		6.390									
		7.261									
		7.274									
CCV	10.0	10.042		148.3	uS	148.3	22.9	HP/2	1732		J
CCV	146.9			1446	mS	1446					
IDC	1			1453	mS	1453					
	2			1452	mS	1452					
	3			1447	mS	1447					
	4			2.66	mS	2660	23°	HP/2/1740			J
CCV	2767			.701	uS	.701					
CCB	DI H2O										
*R2844538	1110981	3.488									
	1110981 dup	3.490									
CCV	7.0	7.049									

AP 6/20/08

*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 6977 TEMP. 20.5°C
 LOT #: BDB2674H BDB2680E BDB2680E

Conductivity Meter Calibration

N KCL: 1412 Calibrated (Yes/NO) LOT #: BDB2684E
 Cell Constant: 1.121
 N KCL: 2767 LOT #: BDB2684D Reading 2650
 10% Limits: 2490.3 to 3043.7
 N KCL: 146.9 LOT #: BDB2684E Reading 148.5
 10% Limits: 132.2 TO 161.6
 S = 1,000,000 umhos/cm

*Recal to 1000 by HP @ 1755 6/1
 2.0 ✓ BDB267
 7.0 ✓ BDB268
 10V ✓ 40 H10 BDI
 Temp 23°

uS = 1 umhos/cm

mS = 1,000 umhos/cm

DATE: 6/20/08 TIME: 1145

Analyst: _____

Limits for DI Water if pH < 5.5. or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)
 Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Date: 6-21-08

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY		TEMP °C	Analyst	Time	HT** (y/n)	Meter* J/VWR
				raw data	120.1 units mhos/cm					
R2-44538	Cntb	9.117								
		9.530								
		9.385								
		9.441								
	111265	7.298								
	2105 dip	7.331								
	2106	7.437								
	2104	7.457								
	2107	7.585								
	CCV 4.00	4.049								

Handwritten signature/initials

*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 6.965 TEMP. 21.7
 LOT #: BDB26744 BDB2680F BDB2680E

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
 S = 1,000,000 umhos/cm

uS = 1 umhos/cm mS = 1,000 umhos/cm
 Analyst: ME DATE: 6-21-08 TIME: 10:30

Columbia Analytical Services, Rochester, NY

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)
 Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Date: 6/24/08

0103
0103FB
0101
0201

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY			TEMP °C	Analyst	Time	HT** (y/n)	Meter*
				raw data	120.1 units	mhos/cm					
MB	CCB	6.305		0.154	µS	0.154	16°	RC	1145		J
R2-44538	1111765	7.384					13°			Y	
	764	7.575									
	764 dup	7.596									
	1111763	7.610									
CCV	10.0 / 2767	10.029		2.62	mS	2620	19°		1830		Y
R2-43979	1101852	7.369		62.2	µS	62.2	19°				
R2-441621	1111638	7.136		190.2	µS	190.2					
	639	7.495		194.5	µS	194.5					
	639 dup	7.487		0.339	mS	339					
	640	7.844		0.356	mS	356					
	726	7.869		0.798	mS	798					
	727	8.238		0.444	mS	444					
R2-44621	1111899	7.784		1.430	µS	1.430					
	900	6.034		0.238	mS	238					
	897	8.263		167.4	µS	167.4					
	898	7.777		147.7	µS	147.7					
CCV	7.0 / 146.9	7.049		0.323	µS	0.323					
MB	CCB										

*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 6.982 TEMP. 16.7°C
 LOT #: BDB2674H BDB2680E BDB2680E

Conductivity Meter Calibration

N KCL: 1412 Calibrated (Yes) NO) LOT #: BDB2684E
 Cell Constant: 1.107
 N KCL: 2767 LOT #: BDB2684D Reading 2630
 10% Limits: 2490.3 to 3043.7
 N KCL: 146.9 LOT #: BDB2684E Reading 147.1
 10% Limits: 132.2 TO 161.6
 S = 1,000,000 umhos/cm
 µS = 1 umhos/cm mS = 1,000 umhos/cm

Analyst: RC

DATE: 6/24/08 TIME: 1140

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)
 Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Date: 7/25/08 ✓

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY 120			TEMP °C	Analyst	Time	HT** (y/n)	Meter J/VWR
				raw data	units	mhos/cm					
CCB/MB		6.628		0.561	uS	0.561		KMC	030		J
44538	1109708			1.649	uS	1.649				W	
	1109708			1.647	uS	1.647					
	1110532			18.58	mS	18580					
	1110981			25.3	mS	25300					
	111264100			10.67	mS	10670					
	265			12.84	mS	12840					
	266			10.60	mS	10600					
	267			9.15	mS	9150					
	763			8.53	mS	8530					
	764			9.96	mS	9960					
	765			18.91	mS	18910					
44650	1112065			9.20	mS	9200					
	65			13.24	mS	13240					
	66			13.28	mS	13280					
	67			1.964	uS	1.964					
CCV	2767			2.68	mS	2680					
CCV	146.9			142.5	uS	142.5		KMC	1145		
44050	1112486			16.28	mS	16280				W	
	87			15.07	mS	15070					
	88			6.19	mS	6190					
	89			15.39	mS	15390					
	1112809			15.59	mS	1559					

*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 6.990 TEMP. 18°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: 1.102
 N KCL: 2767 LOT #: BDB2686A Reading 2710
 10% Limits: 2490.3 to 3043.7
 N KCL: 146.9 LOT #: BDB2684E Reading 144.1
 10% Limits: 132.2 TO 161.6
 S = 1,000,000 umhos/cm

uS = 1 umhos/cm mS = 1,000 umhos/cm

Analyst: KMC DATE: 7/25/08 TIME: 1030

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!
 Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umhos/cm)
 Conductivity holding time is 48 hrs from sample date
 pH holding time is 15 minutes from collection

Date: 7/25/08 Page

Sub. #	Order #	pH 150.1/4500H*B 9040B	Corrsivity 9045C	CONDUCTIVITY			TEMP °C	Analyst	Time	HT** (y/n)	Meter J/VWR
				raw data	units	120 mhos/cm					
44650	1112810			13.05	ms	13050		KMC	1145	N	J
	11			16.41	ms	16410					
	12			4.95	ms	4950					
	1112871			6.58	ms	6580					
	72			8.32	ms	8320					
	74			11.60	ms	11600					
	74			11.61	ms	11610					
CCV	2767			2.69	ms	2690					
CCV	4.0	4.009		4.69				KMC	1400		J
45102	1120928	7.988									
	928	8.018									
44639	1111818	7.939									
45110	1121057	9.660									
CCV	7.0	7.028									
CCV	4.0	4.033						KMC	1550		J
45110	1121057	9.505									
	1057	9.479									
CCV	7.0	7.038									

do not test
- out of temp
- Resample

✓

*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 6.990 TEMP. 18°C

LOT #: BDB2674H BDB2680F BDB2680E

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes / NO) LOT #: *on page 1*
 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
 S = 1,000,000 umhos/cm
 uS = 1 umhos/cm mS = 1,000 umhos/cm

Analyst: _____ DATE: _____ TIME: _____

Run #: 163453

Analyte: CR+6 218.6 CR+6 HEX-CHROM BY IC

Printed: 07/14/08 19:55

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK5		1117382	WATER	0.519	1.0	0.0100	103.7		07/14/08		
BLK4		1117383	WATER	0.0100	U	1.0	0.0100		07/14/08		
SPKB		1117384	WATER	0.188		1.0	0.0100	93.8	07/14/08		
ESMP	R2844538	1109708	WATER	0.100	U	10.0	0.0100		07/14/08		ASPB
LDUP		1117385	WATER	0.100	U	10.0	0.0100		07/14/08		
SPK1		1117386	WATER	2.07		10.0	0.0100	103.4	07/14/08		
ESMP	R2844538	1110532	WATER	0.100	U	10.0	0.0100		07/14/08		ASPB
ESMP	R2844538	1110981	WATER	0.100	U	10.0	0.0100		07/14/08	RUN	ASPB
ESMP	R2844538	1111264	WATER	0.634		10.0	0.0100		07/14/08	RUN	ASPB
ESMP	R2844538	1111265	WATER	0.574		10.0	0.0100		07/14/08	RUN	ASPB
ESMP	R2844538	1111266	WATER	0.106		10.0	0.0100		07/14/08	RUN	ASPB
ESMP	R2844538	1111267	WATER	0.0809		10.0	0.0100		07/14/08	RUN	ASPB
ESMP	R2844538	1111763	WATER	0.250		10.0	0.0100		07/14/08	RUN	ASPB
ESMP	R2844538	1111764	WATER	0.974		10.0	0.0100		07/14/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	0.100	U	10.0	0.0100		07/14/08	RUN	ASPB

Records printed: 15

Analyst: CWoods
 Pipepts: Mine
 Way
 Harry

1 copy: 44538

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
1	CCV	Sample		cr6-711.met	714_a001.dxd	1	
2	CCB	Sample		cr6-711.met	714_a002.dxd	1	
3	LCS	Sample		cr6-711.met	714_003.dxd	1	
4	MDL 1	Sample		cr6-711.met	714_004.dxd	1	
5	MDL 2	Sample		cr6-711.met	714_005.dxd	1	
6	MDL 3	Sample		cr6-711.met	714_006.dxd	1	
7	MDL 4	Sample		cr6-711.met	714_007.dxd	1	
8	MDL 5	Sample		cr6-711.met	714_008.dxd	1	
9	MDL 6	Sample		cr6-711.met	714_009.dxd	1	
10	MDL 7	Sample		cr6-711.met	714_010.dxd	1	
11	MDL V	Sample		cr6-711.met	714_011.dxd	1	
12	CCV	Sample		cr6-711.met	714_012.dxd	1	
13	CCB	Sample		cr6-711.met	714_013.dxd	1	
14	1109708	Sample		cr6-711.met	714_014.dxd	10	
15	1109708 DUP	Sample		cr6-711.met	714_015.dxd	10	
16	1109708 SPK	Sample		cr6-711.met	714_016.dxd	10	
17	1110532	Sample		cr6-711.met	714_017.dxd	10	
18	1110981	Sample		cr6-711.met	714_018.dxd	10	
19	1111264	Sample		cr6-711.met	714_019.dxd	10	
20	1111265	Sample		cr6-711.met	714_020.dxd	10	
21	1111266	Sample		cr6-711.met	714_021.dxd	10	
22	1111267	Sample		cr6-711.met	714_022.dxd	10	
23	1111763	Sample		cr6-711.met	714_023.dxd	10	
24	1111764	Sample		cr6-711.met	714_024.dxd	10	
25	1111765	Sample		cr6-711.met	714_025.dxd	10	
26	CCV	Sample		cr6-711.met	714_026.dxd	1	
27	CCB	Sample		cr6-711.met	714_027.dxd	1	
28		Sample		cr6-711.met	714_028.dxd	1	

Default Method Path: J:\ACQU\DATA\IC\METHOD.AC\IC#1\CR6
 Default Data Path: J:\ACQU\DATA\IC\DATA\IC#1\CR6\071408
 Comment:

Reviewed & Approved

By: B. Beule
 Date: 7/23/08

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\714_001.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 12:47:43

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

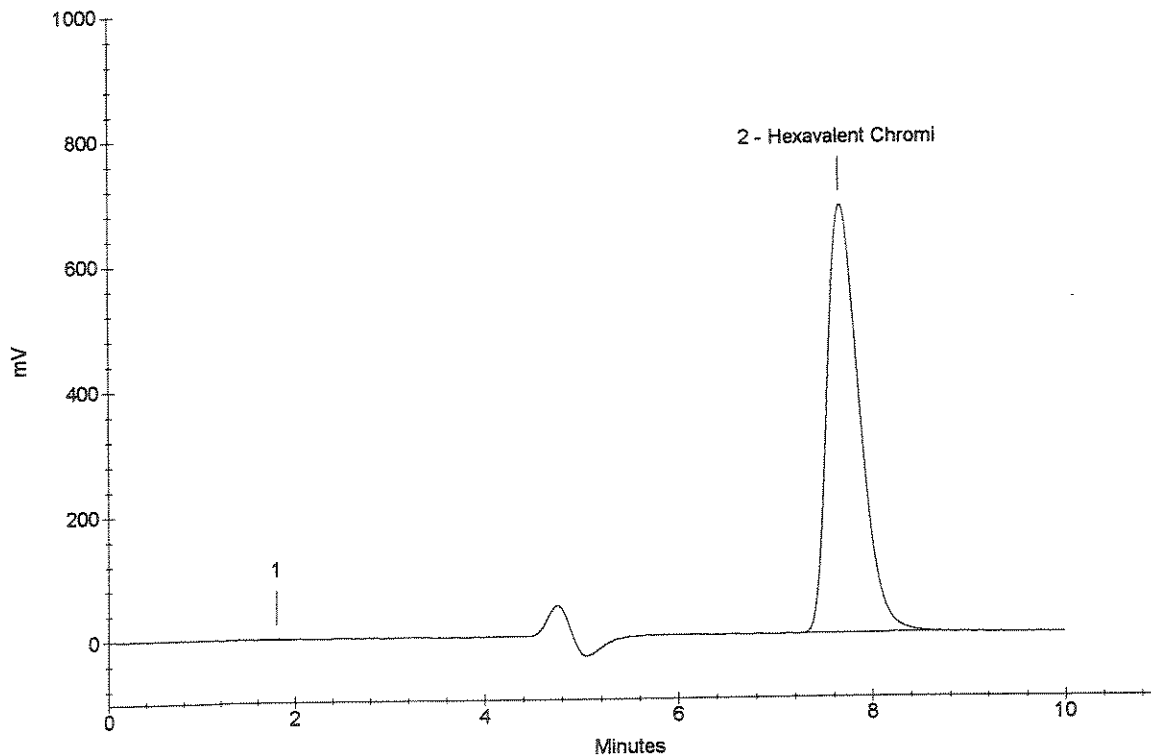
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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	0.5186	15905011

OK
CCV
7/14/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...714_002.DXD
Method File Name : ...Cr6-711.met
Date Time Collected : 7/14/08 13:00:42

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

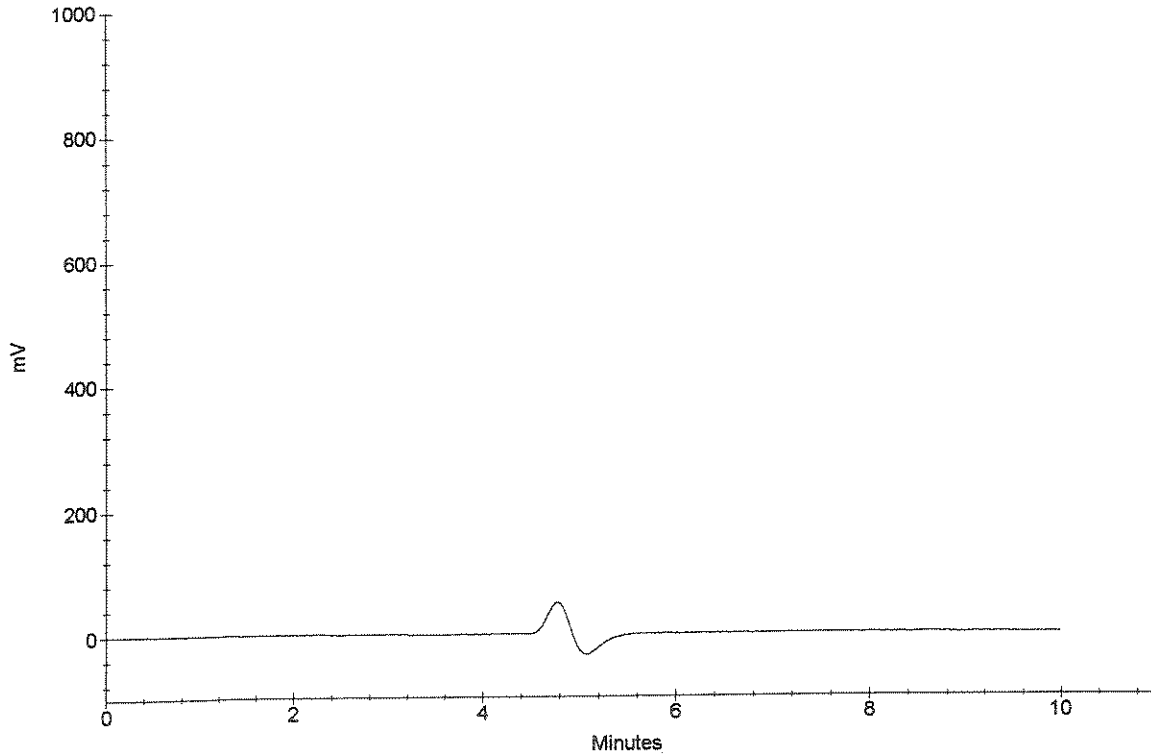
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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
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OK
CCB
7/14/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\\714_003.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 13:11:07

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

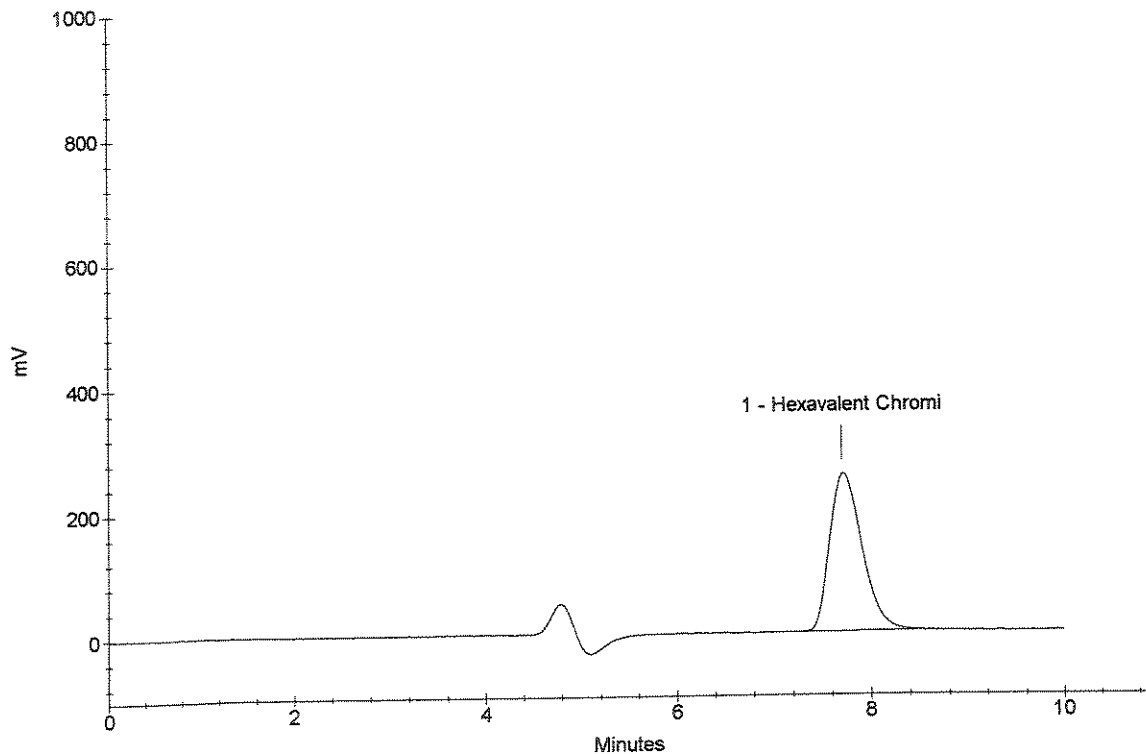
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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	7.72	Hexavalent Chromi	0.1877	5837944

OK
7/14/08
LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MDL 1
Data File Name : ...\\714_004.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 13:45:05

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

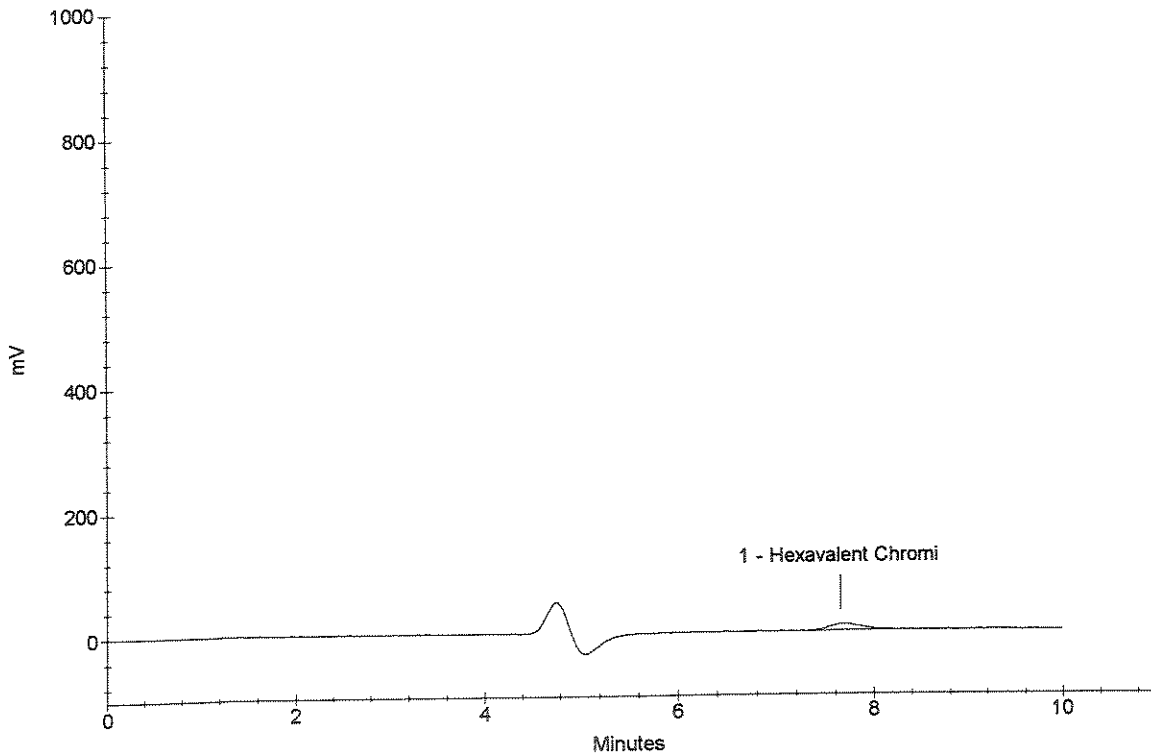
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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	7.66	Hexavalent Chromi <i>OK</i>	0.0037	240134

MDL 1
7/14/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MDL 2
Data File Name : ...\\714_005.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 13:55:29

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

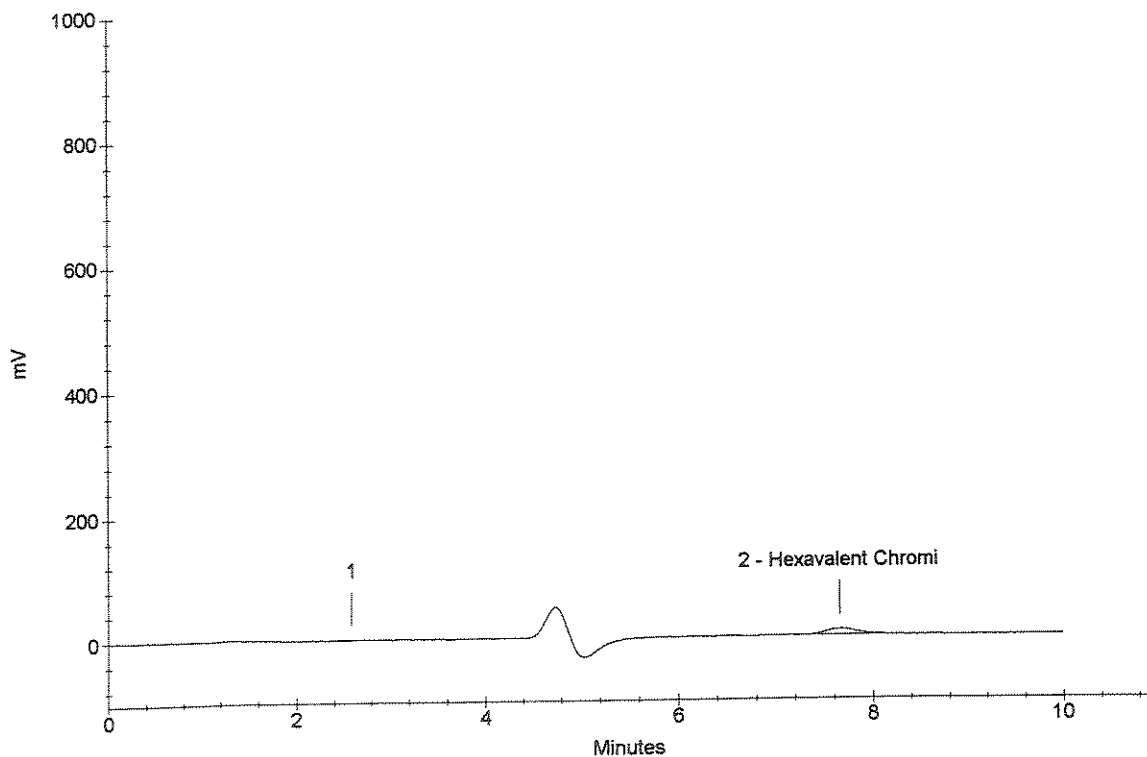
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.66	Hexavalent Chromi	0.0022	192565

MDL 2

OK
7/14/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MDL 3
Data File Name : ...\\714_006.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 14:05:54

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

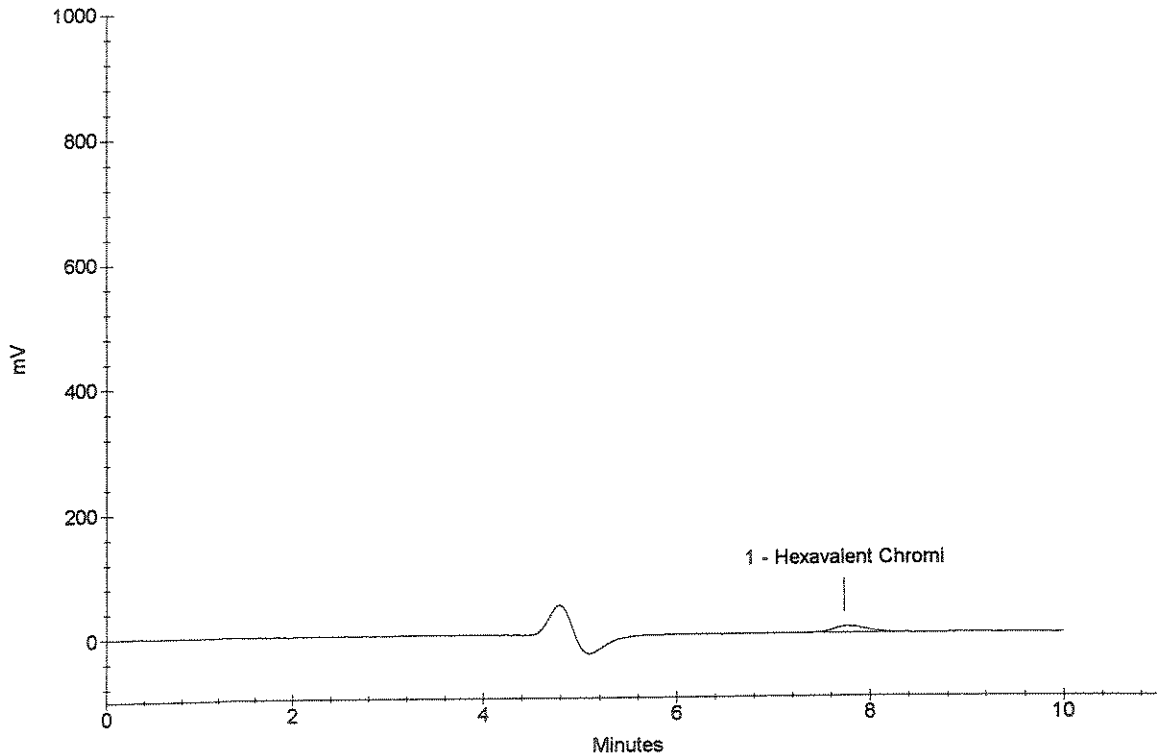
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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	7.74	Hexavalent Chromi	0.0031	221456

MDL 3



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MDL 4
Data File Name : ...\\714_007.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 14:16:19

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

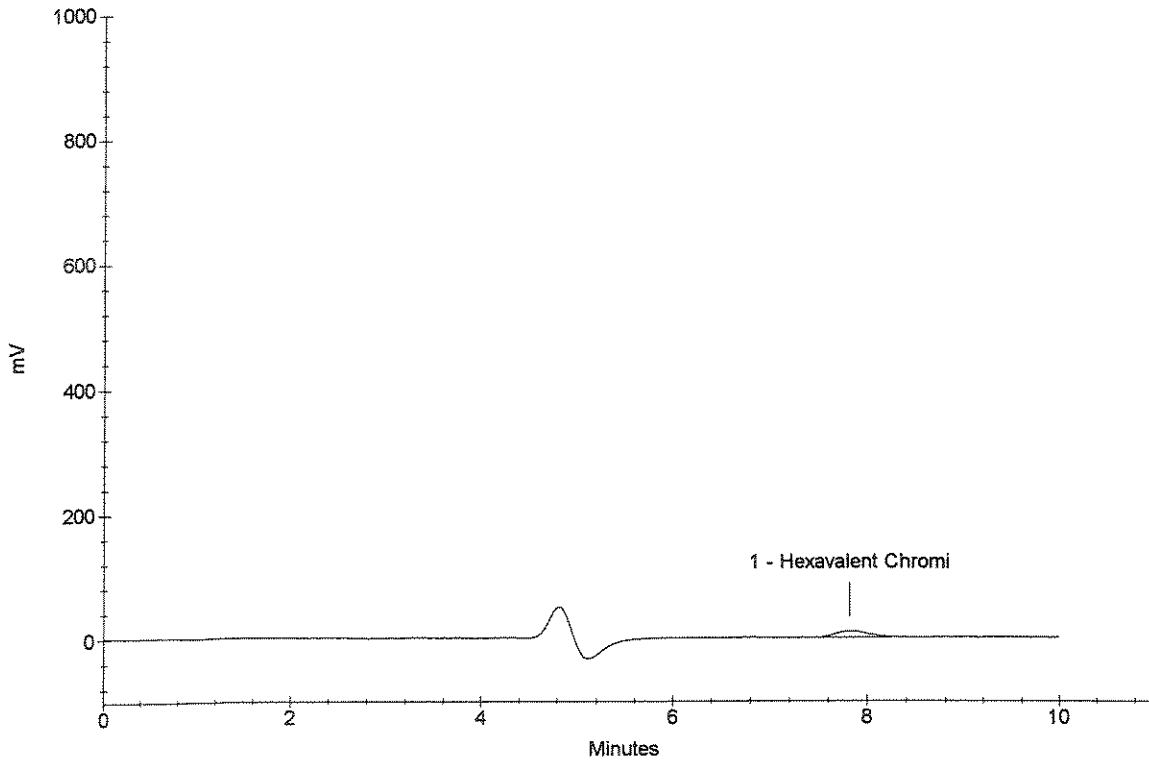
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.82	Hexavalent Chromi	0.0032	224076

OK
am
7/14/08

MDL 4



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MDL 5
Data File Name : ...\\714_008.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 14:26:42

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

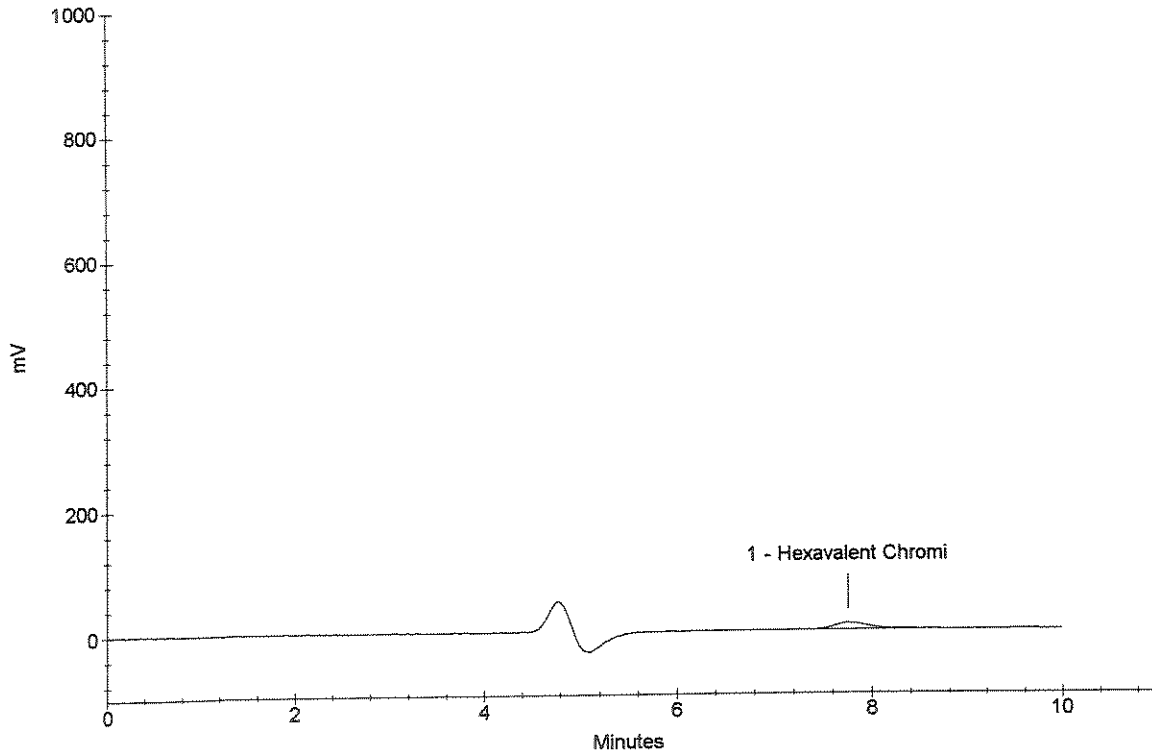
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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	7.76	Hexavalent Chromi	0.0039	244855

OK
an
7/14/08
MDL 5



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MDL 6
Data File Name : ...\\714_009.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 14:37:07

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

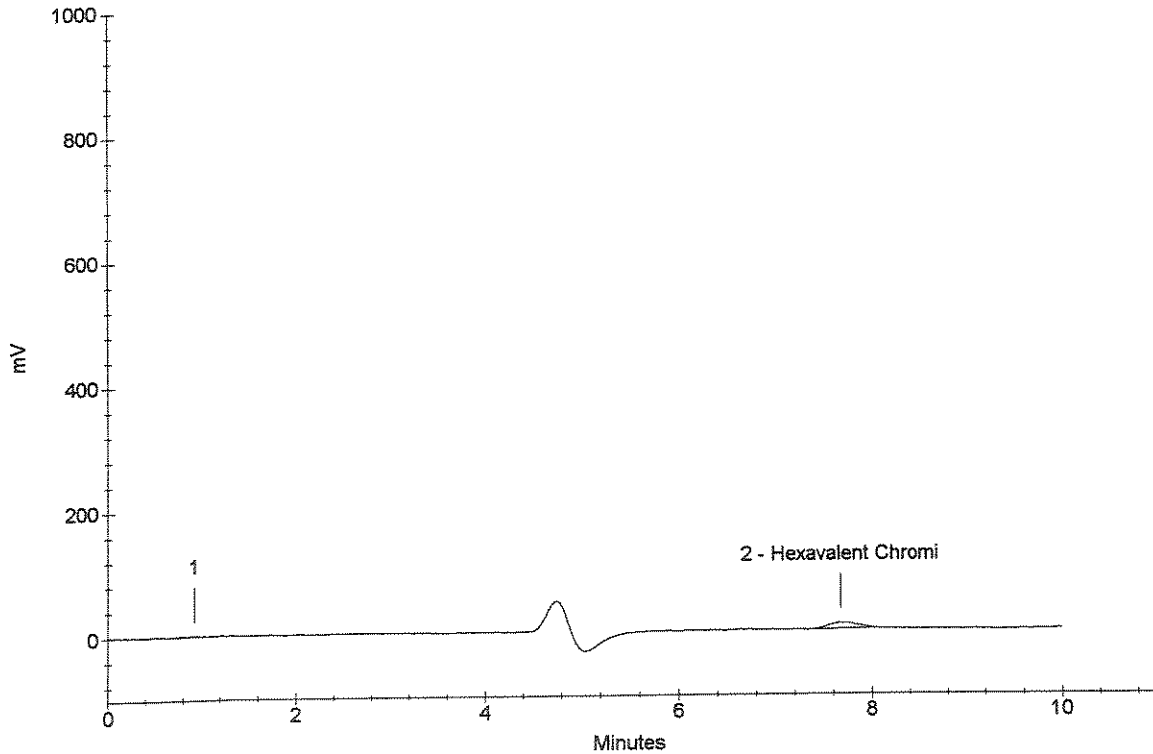
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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 <i>OK</i>	0.0020	188248

MDL 6
7/14/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MDL 7
Data File Name : ...\\714_010.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 14:47:32

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

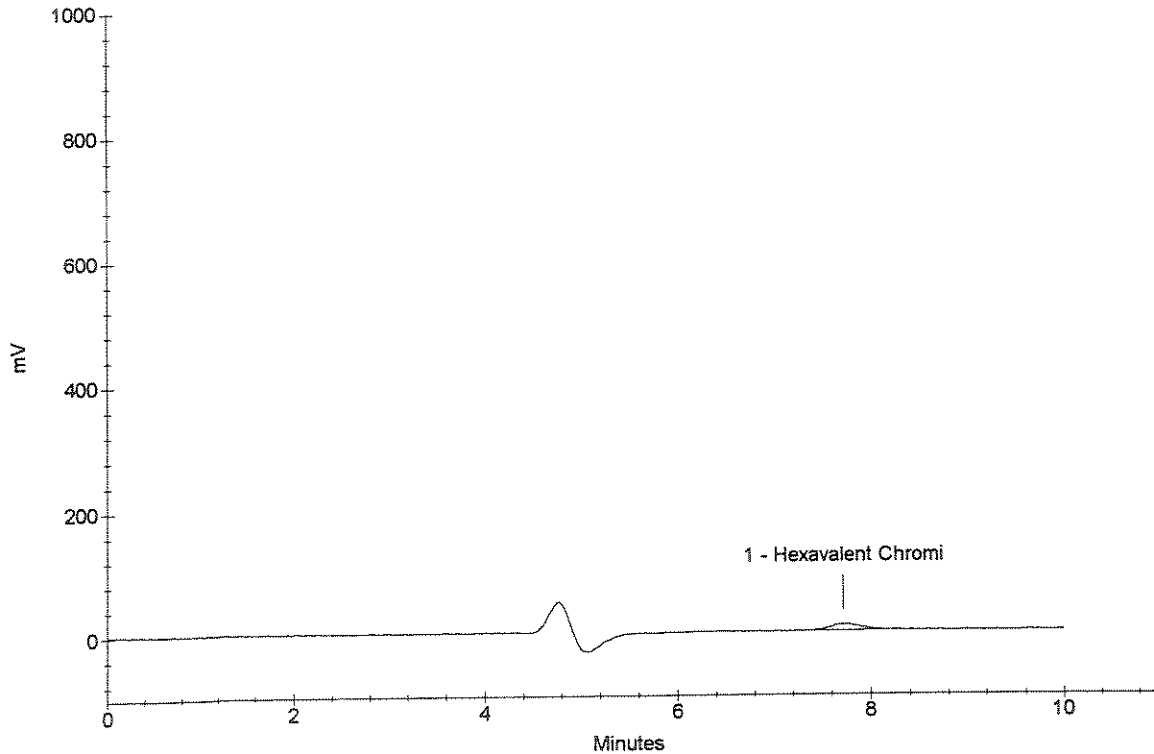
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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	7.72	Hexavalent Chromi	0.0029	214454

MDL 7
7/14/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MDL V
Data File Name : ...714_011.DXD
Method File Name : ...Cr6-711.met
Date Time Collected : 7/14/08 14:57:56

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

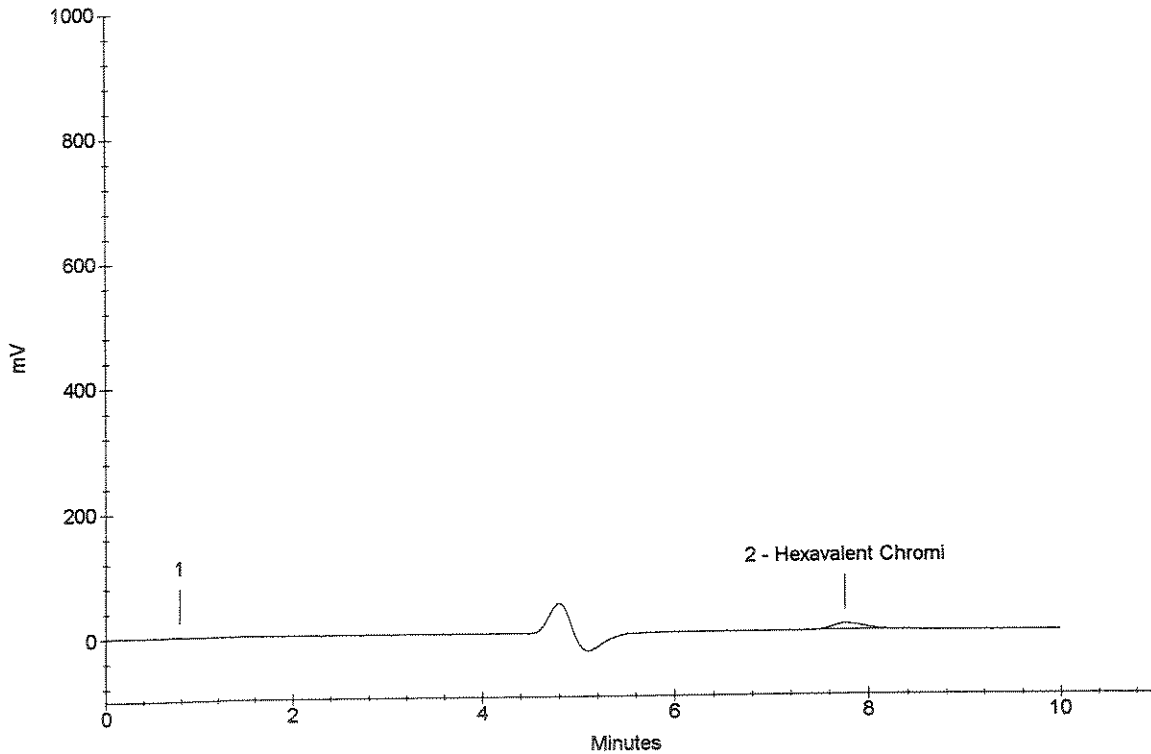
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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	7.76	Hexavalent Chromi	0.0029	213438

MDL V
am
7/14/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\714_012.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 15:29:06

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

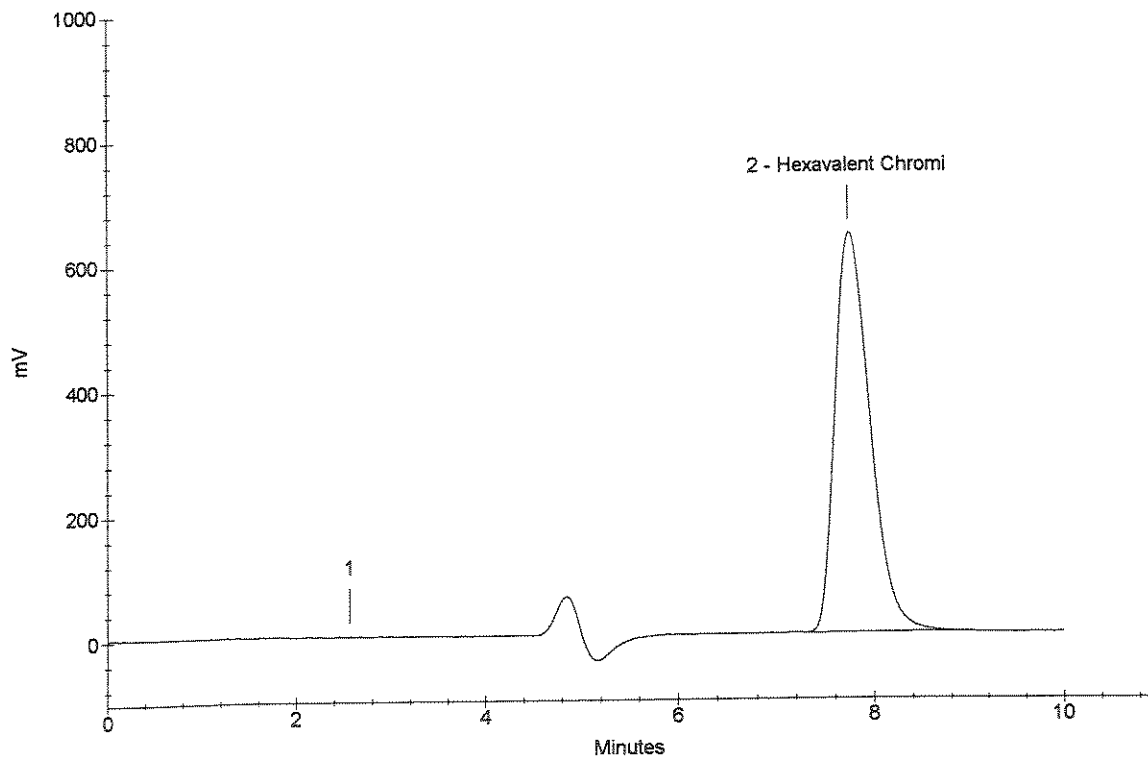
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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	7.76	Hexavalent Chromi <i>OK</i>	0.5197	15938113

ccv
7/14/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...714_013.DXD
Method File Name : ...Cr6-711.met
Date Time Collected : 7/14/08 15:54:47

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

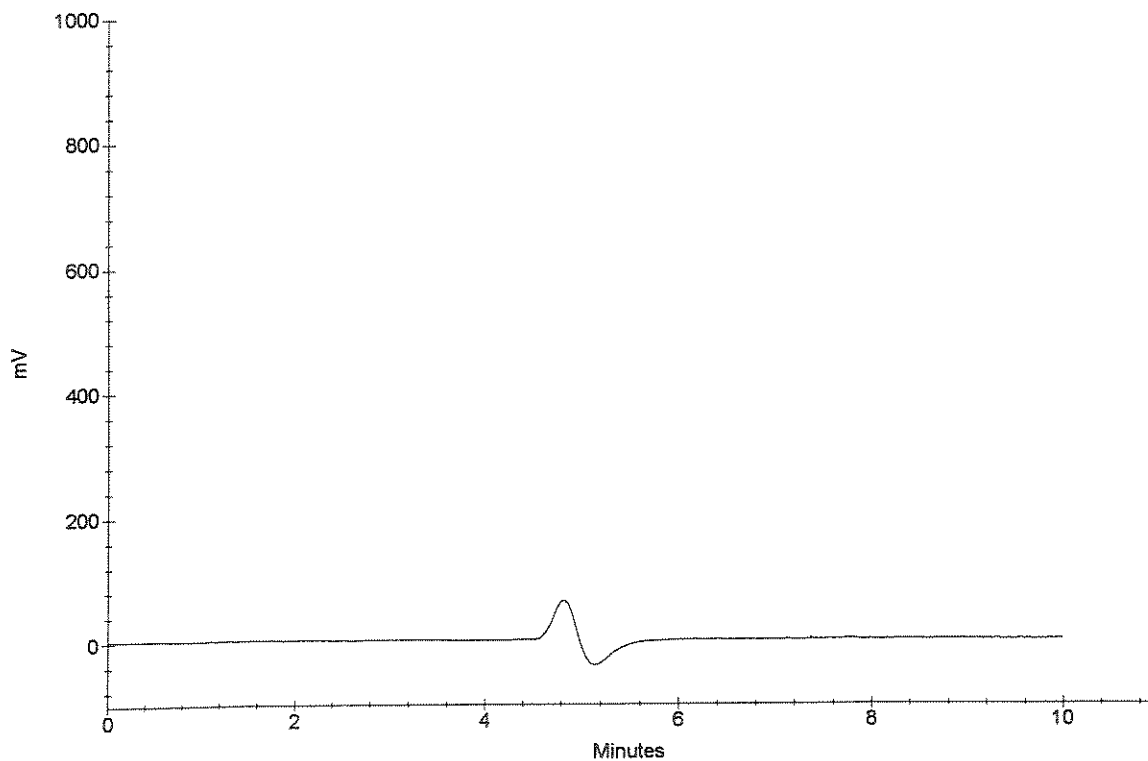
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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
CCB
7/14/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1109708
Data File Name : ...\\714_014.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 16:08:46

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

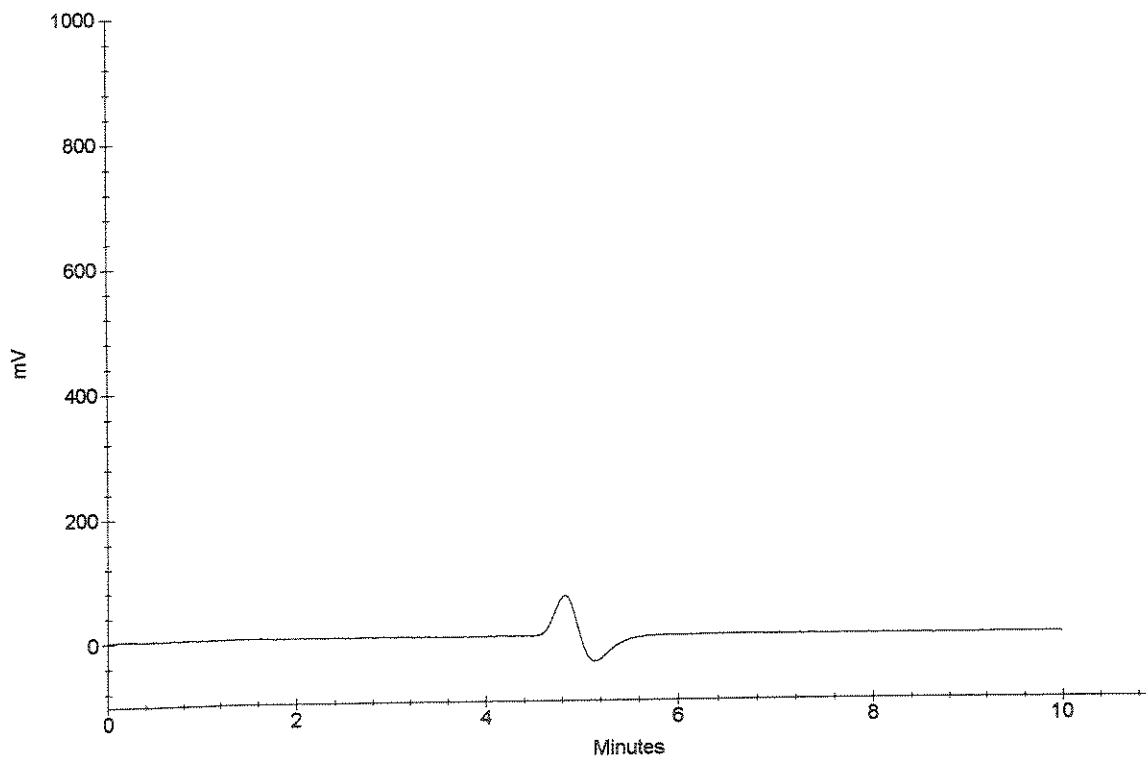
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

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
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OK
7/14/08
1109708



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1109708 DUP
Data File Name : ...714_015.DXD
Method File Name : ...Cr6-711.met
Date Time Collected : 7/14/08 16:19:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

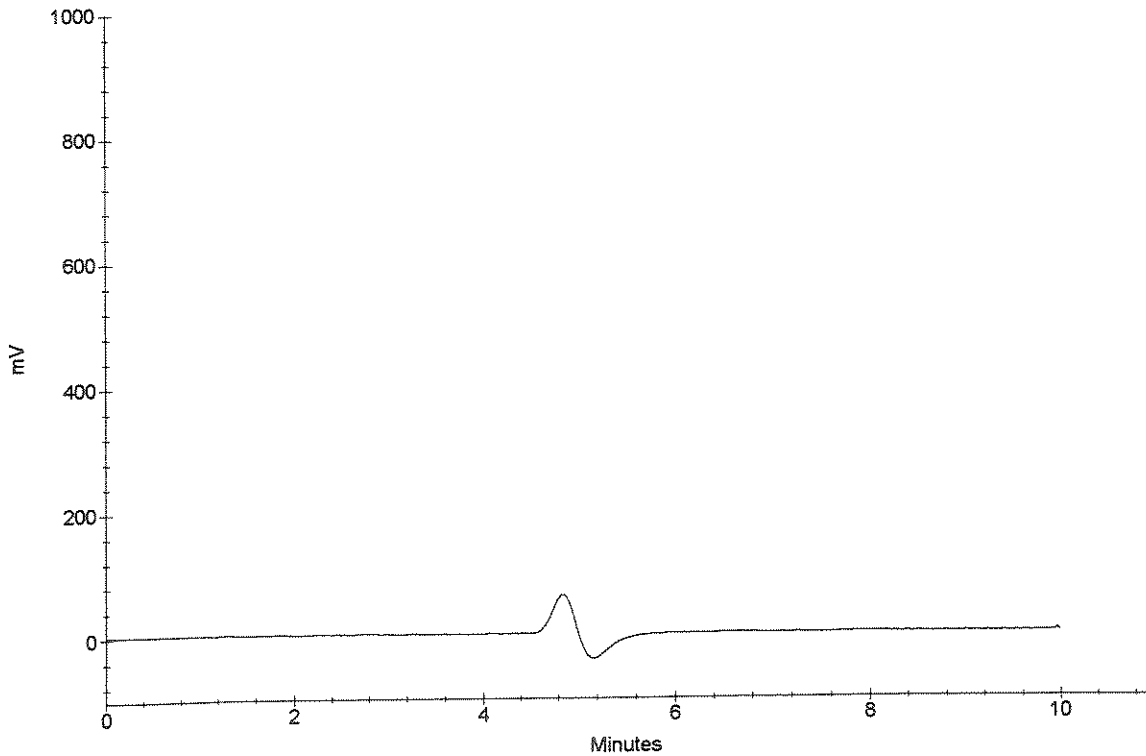
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

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
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OK
7/14/08
1109708 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1109708 SPK
Data File Name : ...\\714_016.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 16:29:35

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

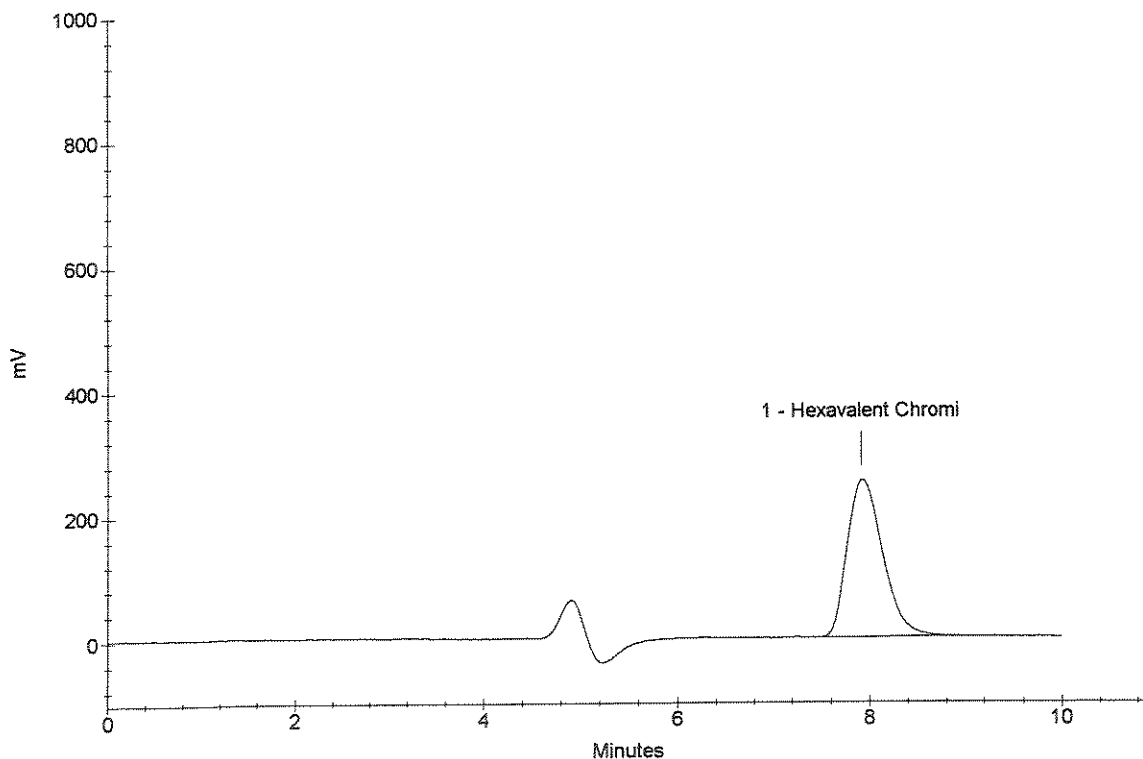
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

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	7.92	Hexavalent Chromi <i>OK</i>	2.0681	6418515

OK
7/14/08
1109708 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1110532
Data File Name : ...\\714_017.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 16:39:58

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

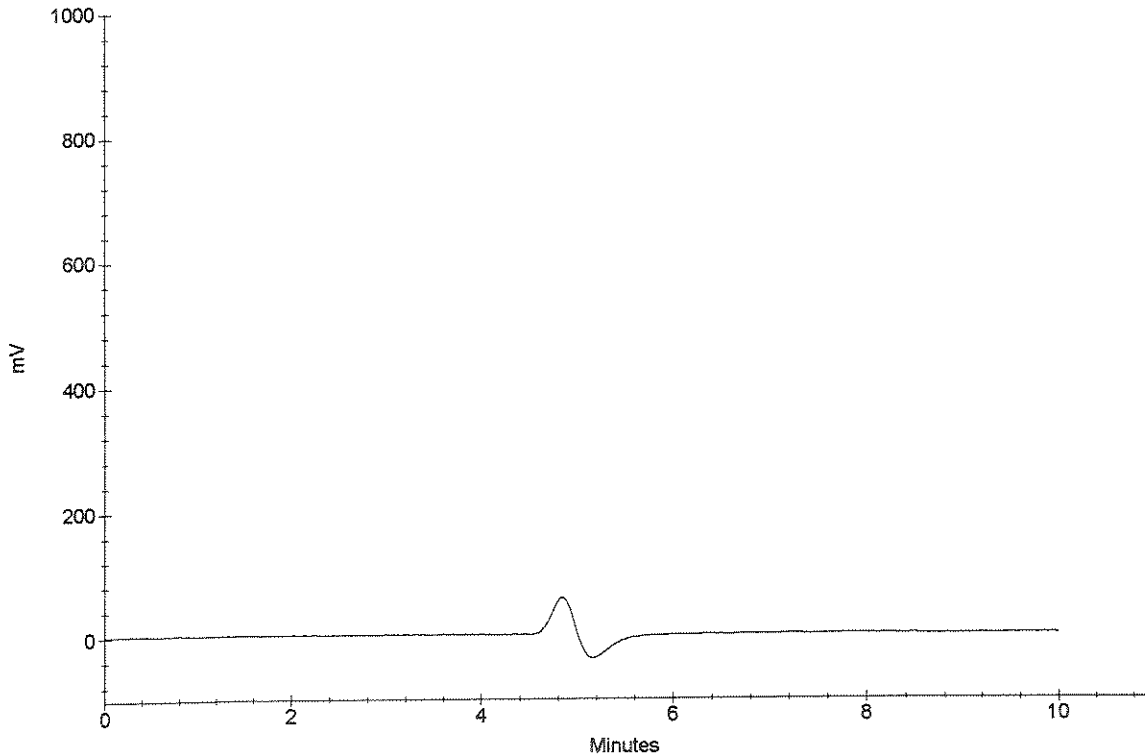
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

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
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OK
CV
7/14/08
1110532



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1110981
Data File Name : ...714_018.DXD
Method File Name : ...Cr6-711.met
Date Time Collected : 7/14/08 16:50:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

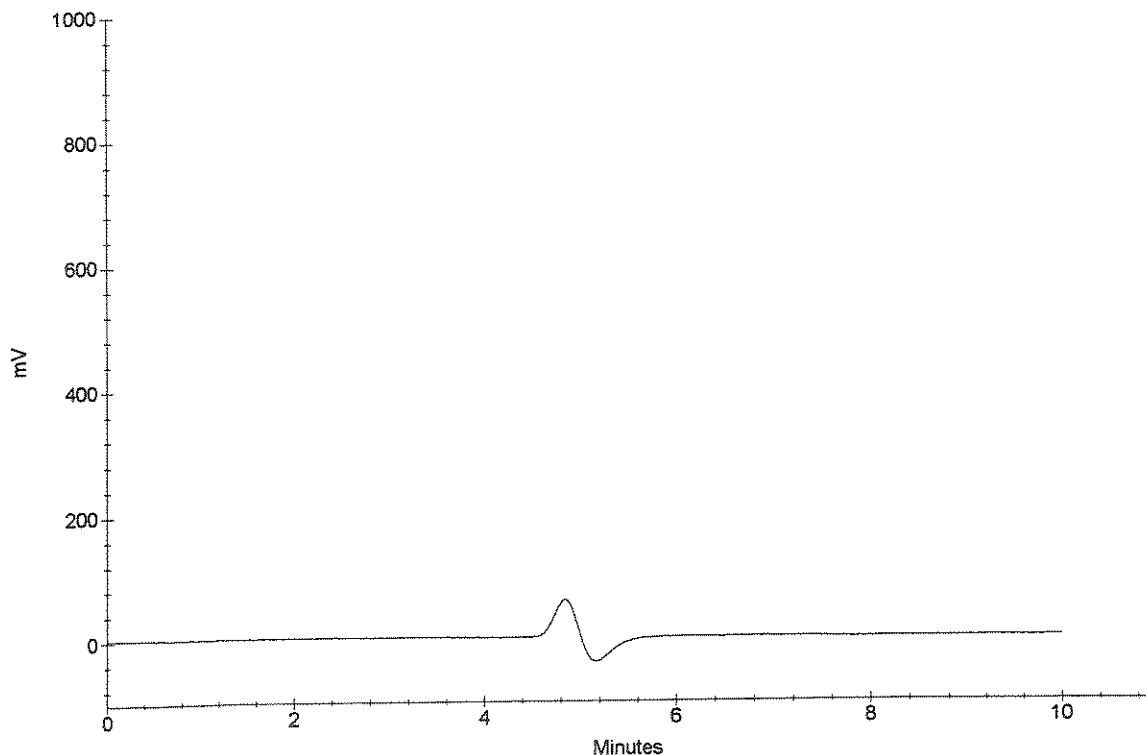
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

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
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OK
an
7/14/08
1110981



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111264
Data File Name : ...\\714_019.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 17:00:46

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

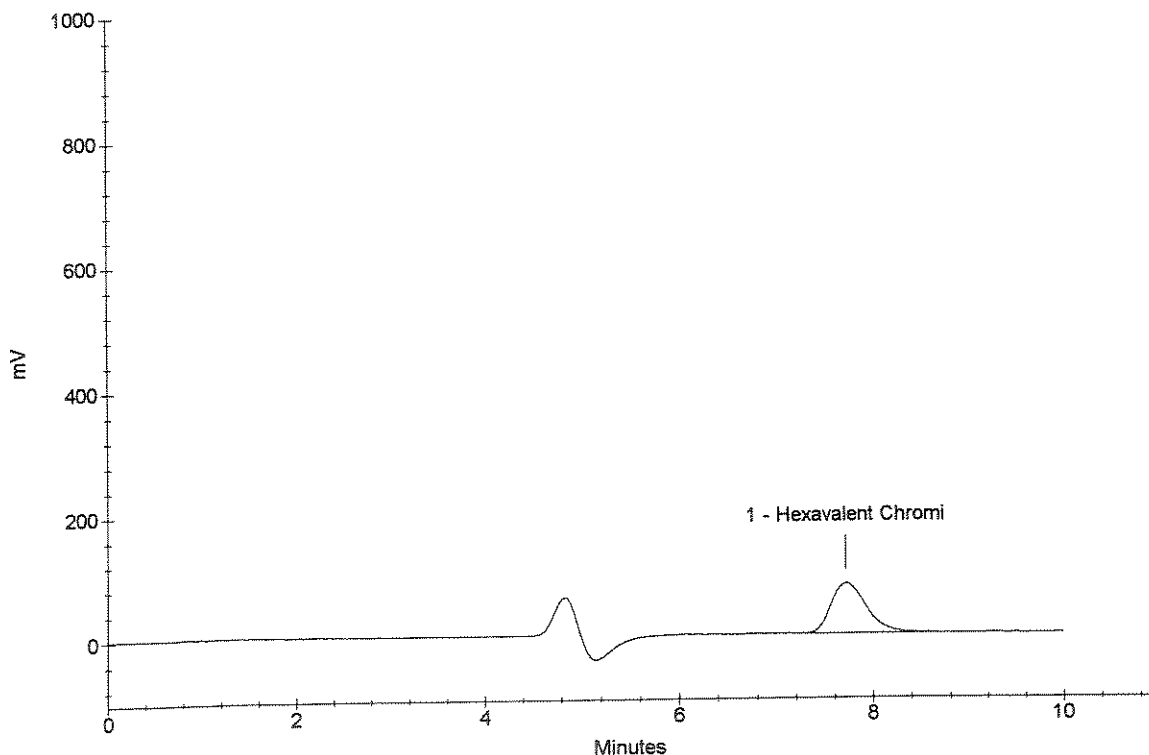
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

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	7.72	Hexavalent Chromi	0.6338	2054563

1111264



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111265
Data File Name : ...\\714_020.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 17:11:11

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

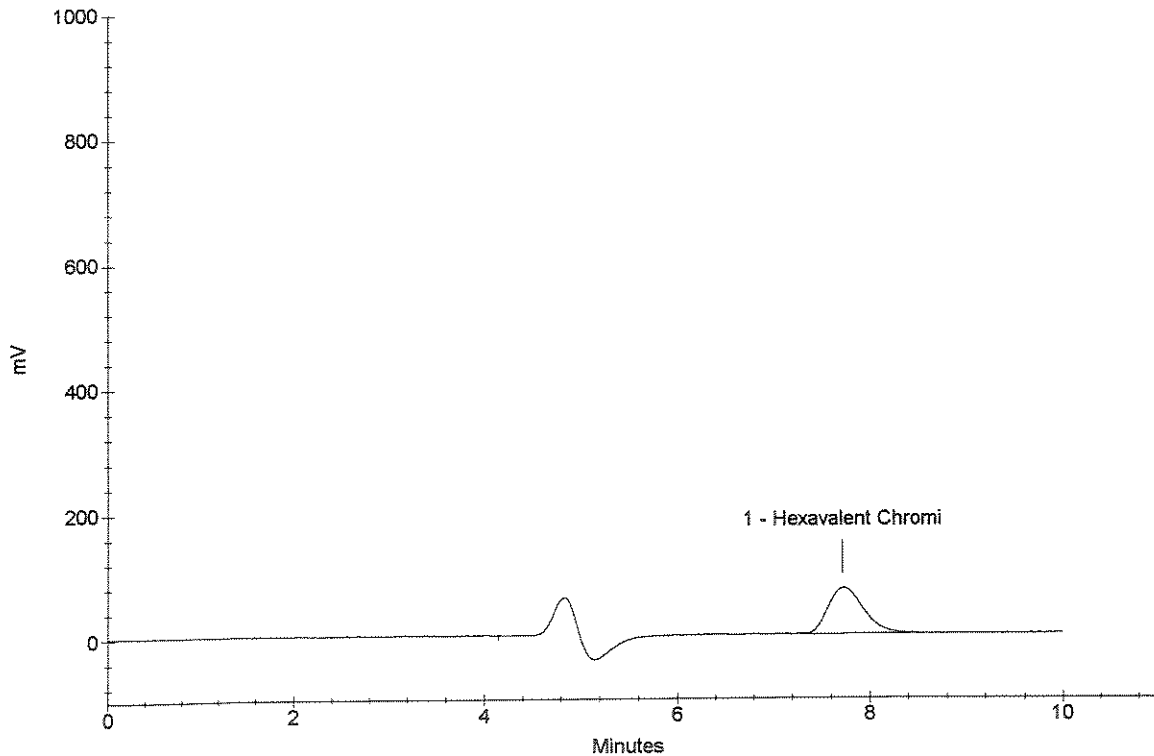
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.72	Hexavalent Chromi	0.5743	1873471

1111265

OK
7/14/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111266
Data File Name : ...714_021.DXD
Method File Name : ...Cr6-711.met
Date Time Collected : 7/14/08 17:21:34

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

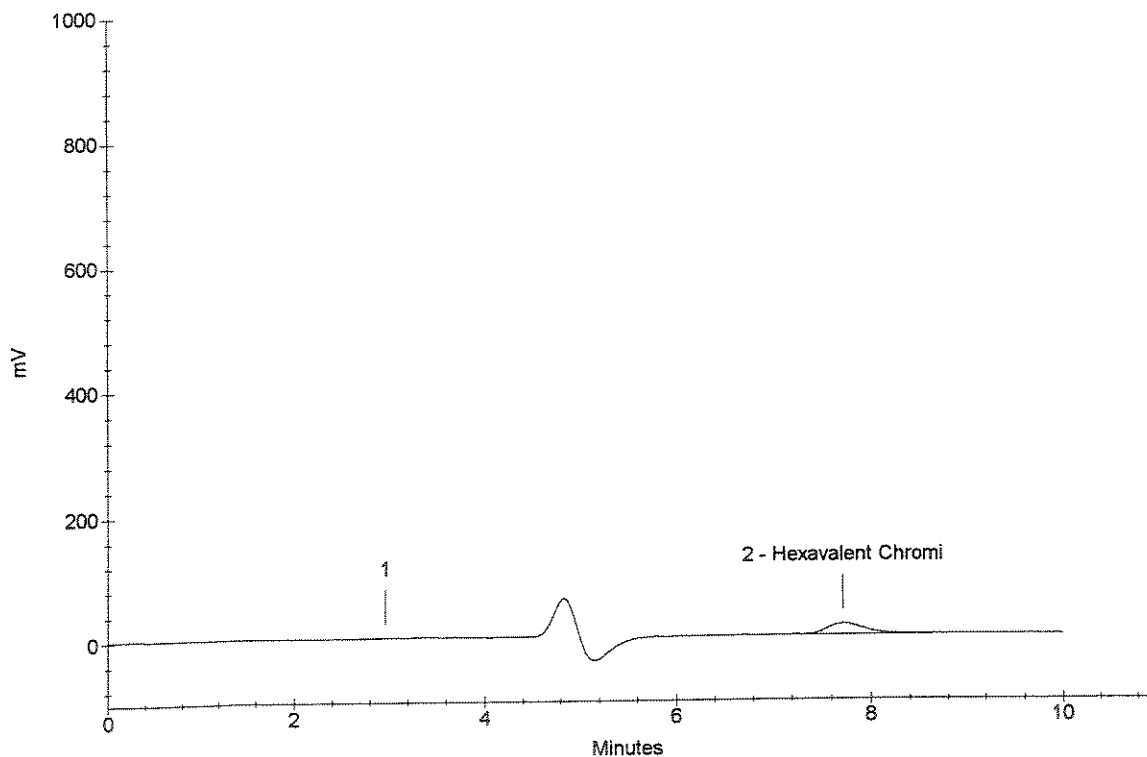
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.72	Hexavalent Chromi <i>OK</i>	0.1065	450466

1111266

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7/14/08



Ion Chromatography Analytical Report
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Sample Name : 1111267
Data File Name : ...\\714_022.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 17:31:58

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

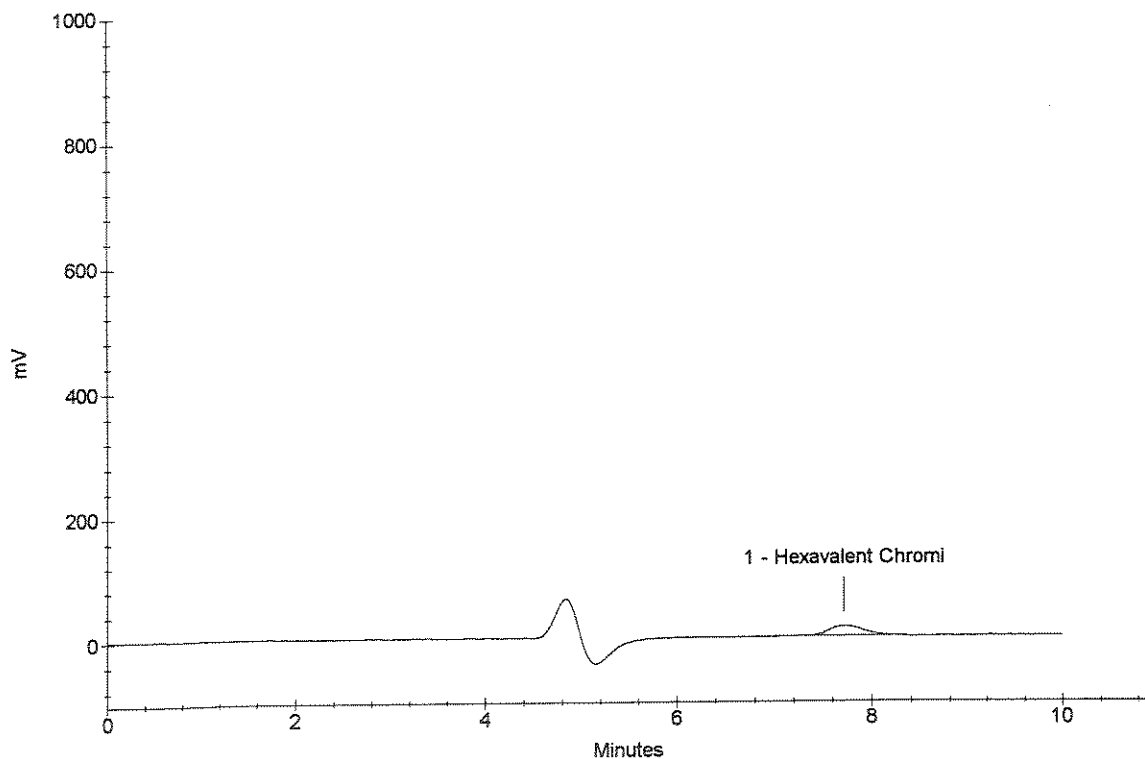
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

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	7.72	Hexavalent Chromi <i>OK</i>	0.0809	372427

OK
7/14/08
1111267



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111763
Data File Name : ...\\714_023.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 17:42:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

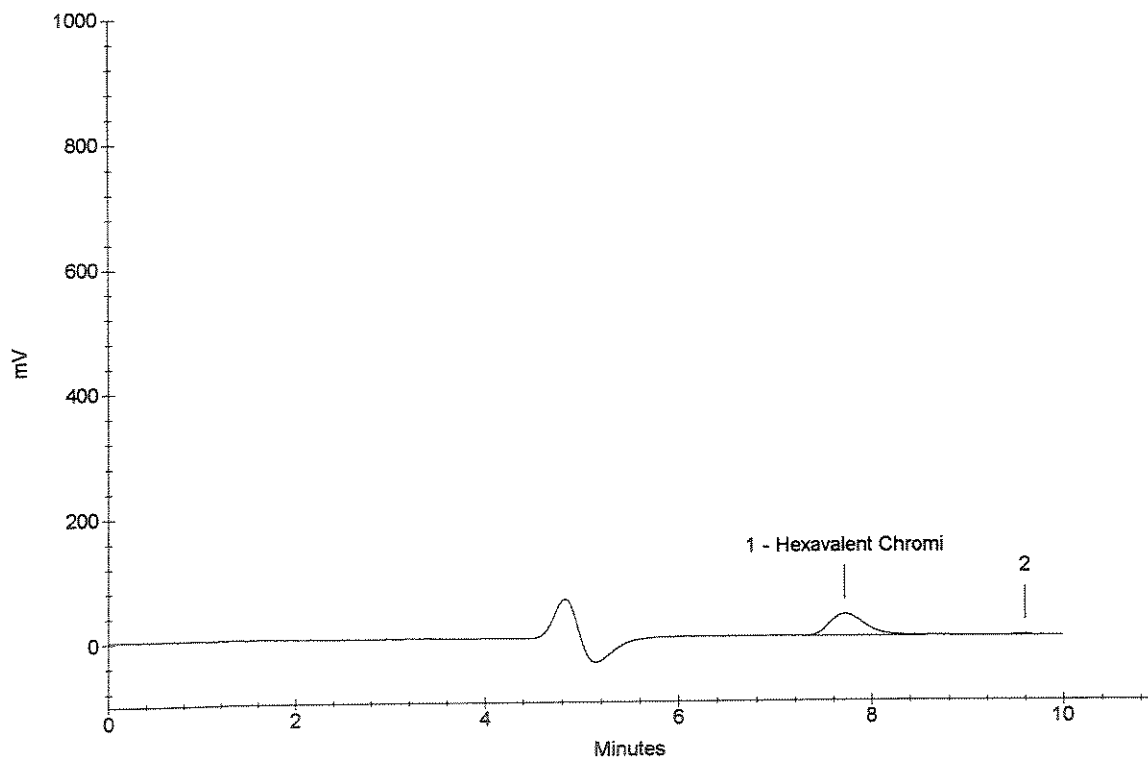
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.72	Hexavalent Chromi <i>OK</i>	0.2502	887622

WY
7/14/08

1111763



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111764
Data File Name : ...\\714_024.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 17:52:45

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

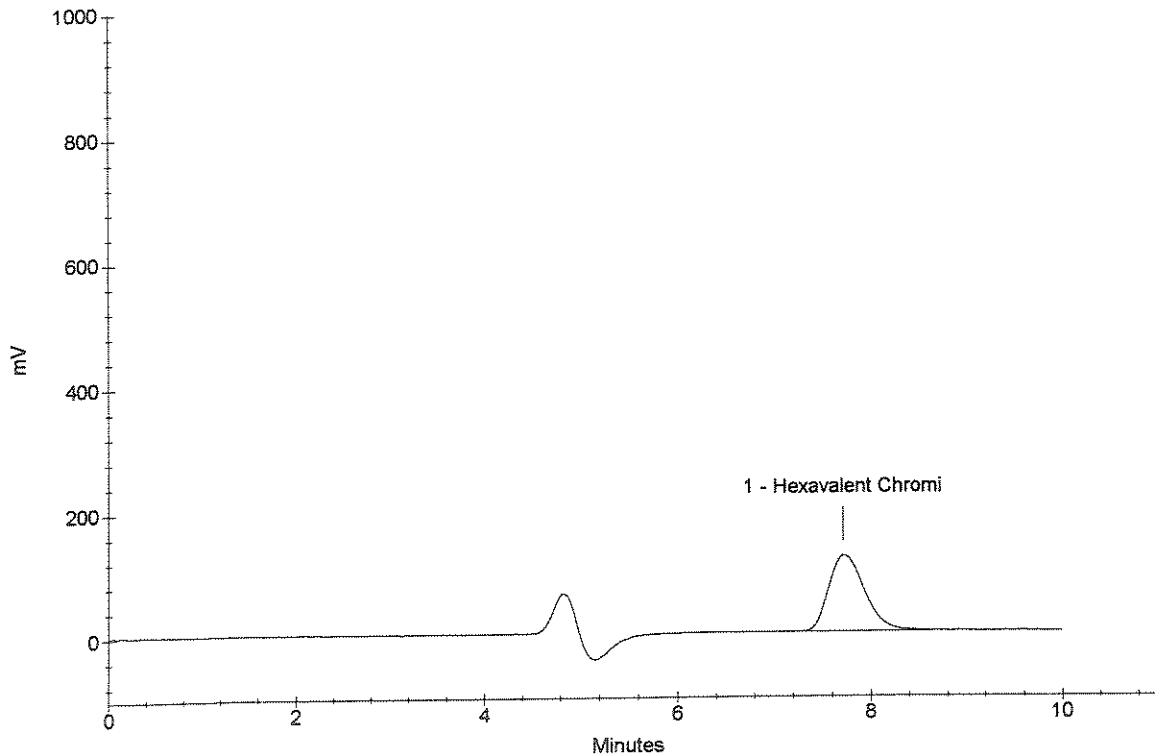
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

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	7.72	Hexavalent Chromi	0.9739	3089429

OK
aw
7/14/08
1111764



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111765
Data File Name : ...714_025.DXD
Method File Name : ...Cr6-711.met
Date Time Collected : 7/14/08 18:03:09

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

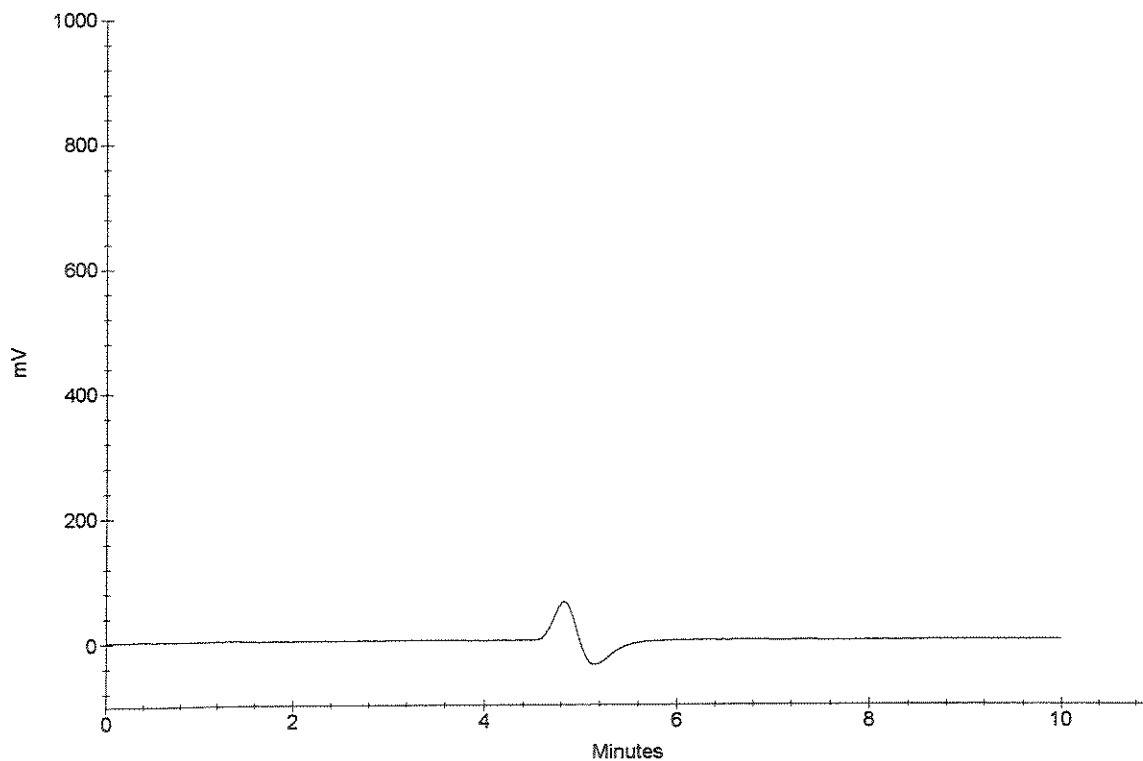
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
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OK
7/14/08

1111765



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\714_026.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 18:38:54

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

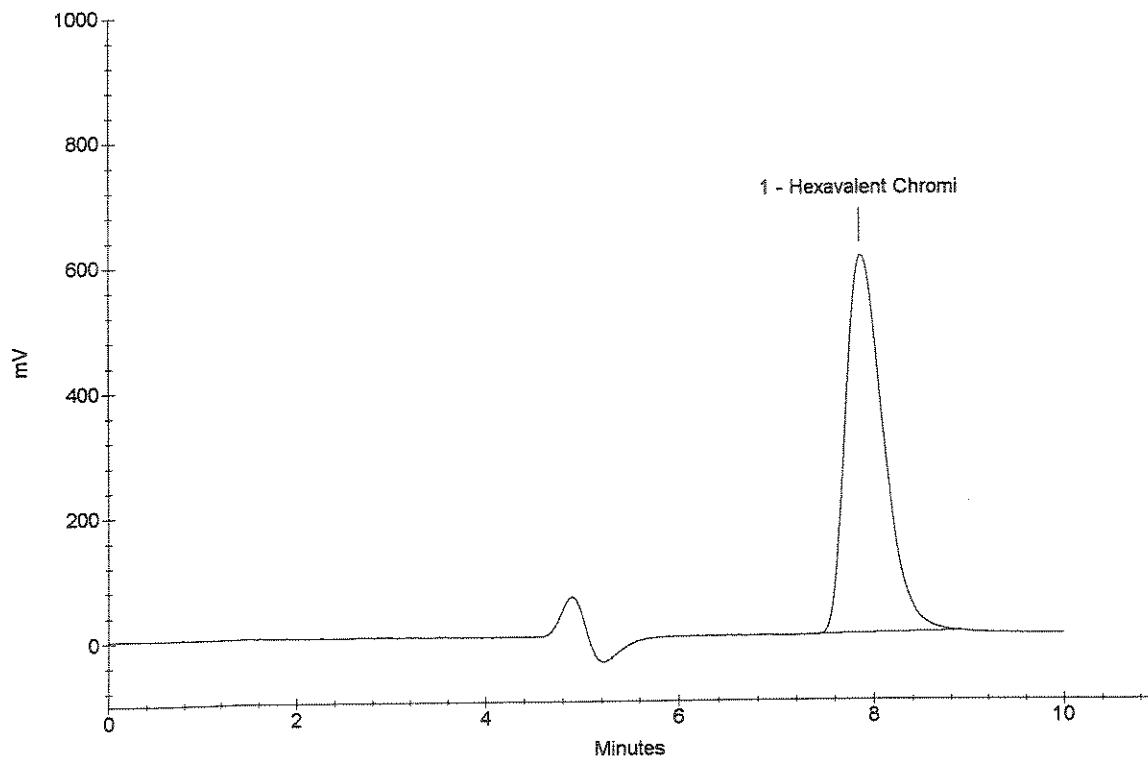
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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	7.88	Hexavalent Chromi	0.5245	16083848

OK
CCV
7/14/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\714_027.DXD
Method File Name : ...\\Cr6-711.met
Date Time Collected : 7/14/08 18:51:52

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/11/08 50uL Loop

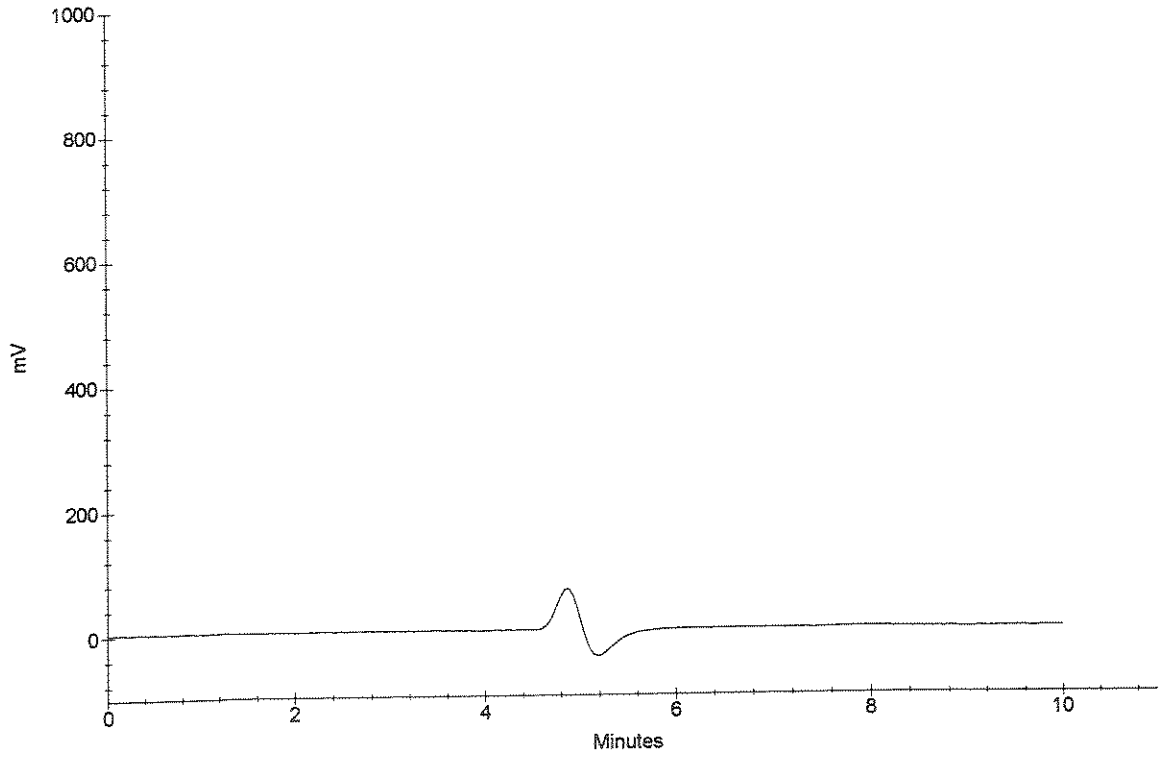
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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
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OK
CCB
7/14/08



Ion Chromatography Cover Sheet

Instrument: Dionex 4000 Series, IC #1
 Column: AS7 Analytical Column, NG-1 Guard Column, 4mm, 07/07/08
 Curve Date: 07/11/08 Loop size: 100 uL Loop
 Analyst: C. Woods Analysis Date: 7-14-08

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Date Rec'd</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
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	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 quantitation file will include a (0,0) point in the calibration curve when no area has been assigned to the zero standard.

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Sample Name : STANDARD 1
Sample Type : Calibration Update
Data File Name : ...\\716_001.DXD
Method File Name : ...\\Cr6-716.met

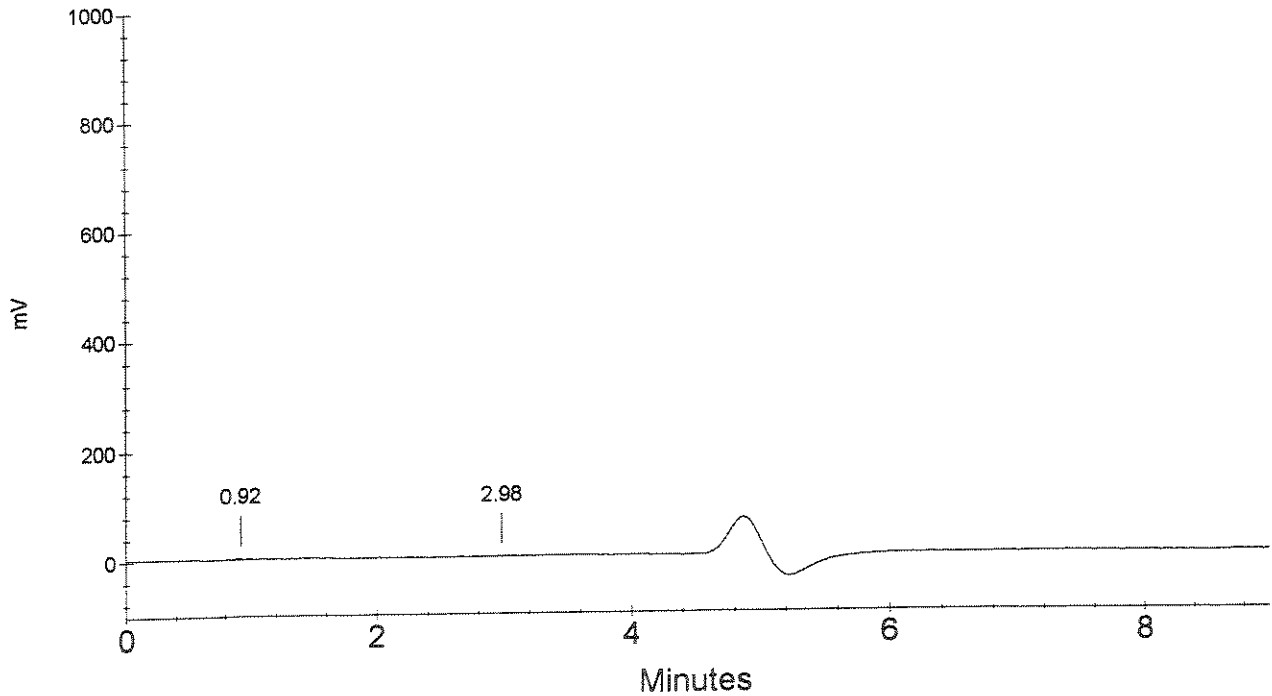
Date Time Collected : 7/16/08 10:43:27
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

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	<i>AK</i> <i>CMW</i> <i>7/17/08</i> STANDARD 1	0.000	8870



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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

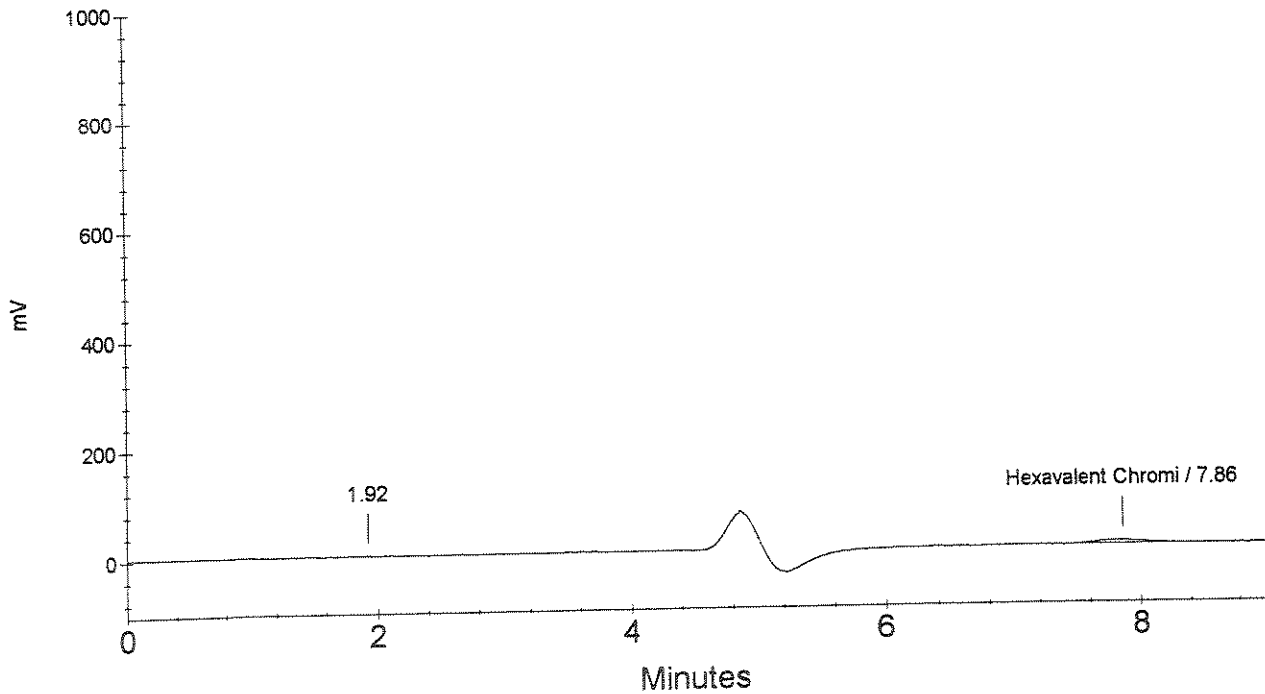
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

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 <i>OK</i>	0.005	156910

7/17/08
STANDARD 2



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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

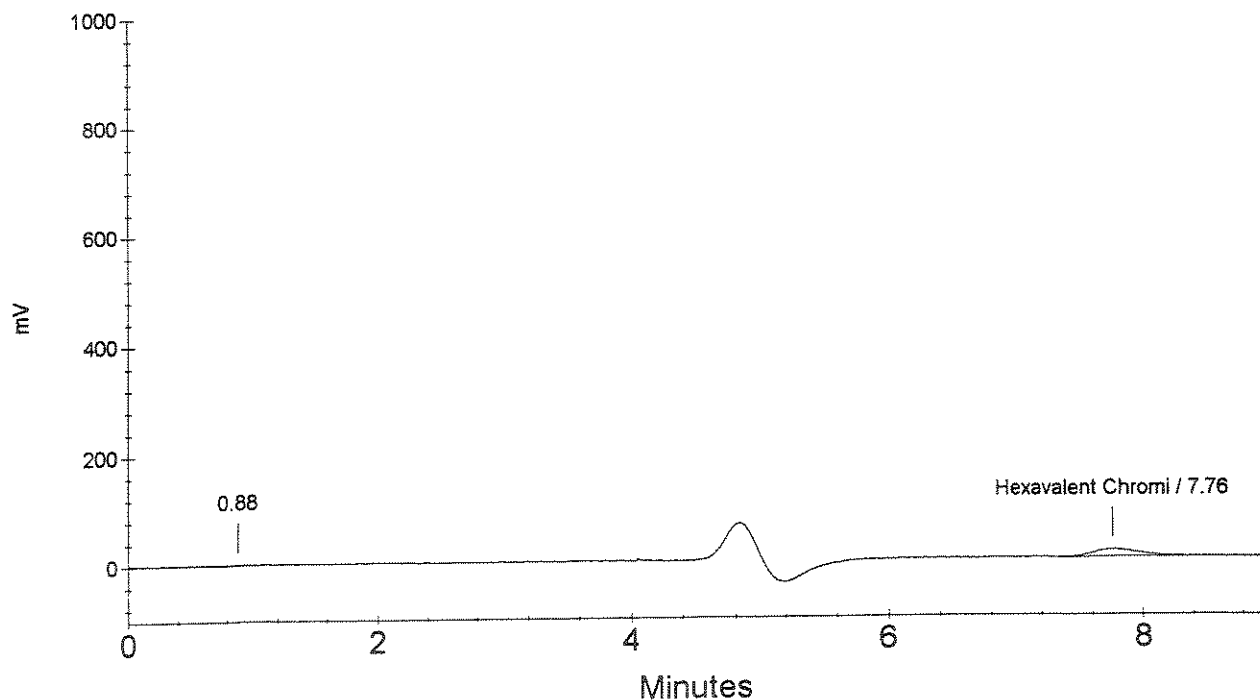
Calibration Type : EXTERNAL
Calibration Level : 3

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.76	Hexavalent Chromi	0.010	347287

Handwritten signature
7/16/08

STANDARD 3



Ion Chromatography Calibration Report
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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

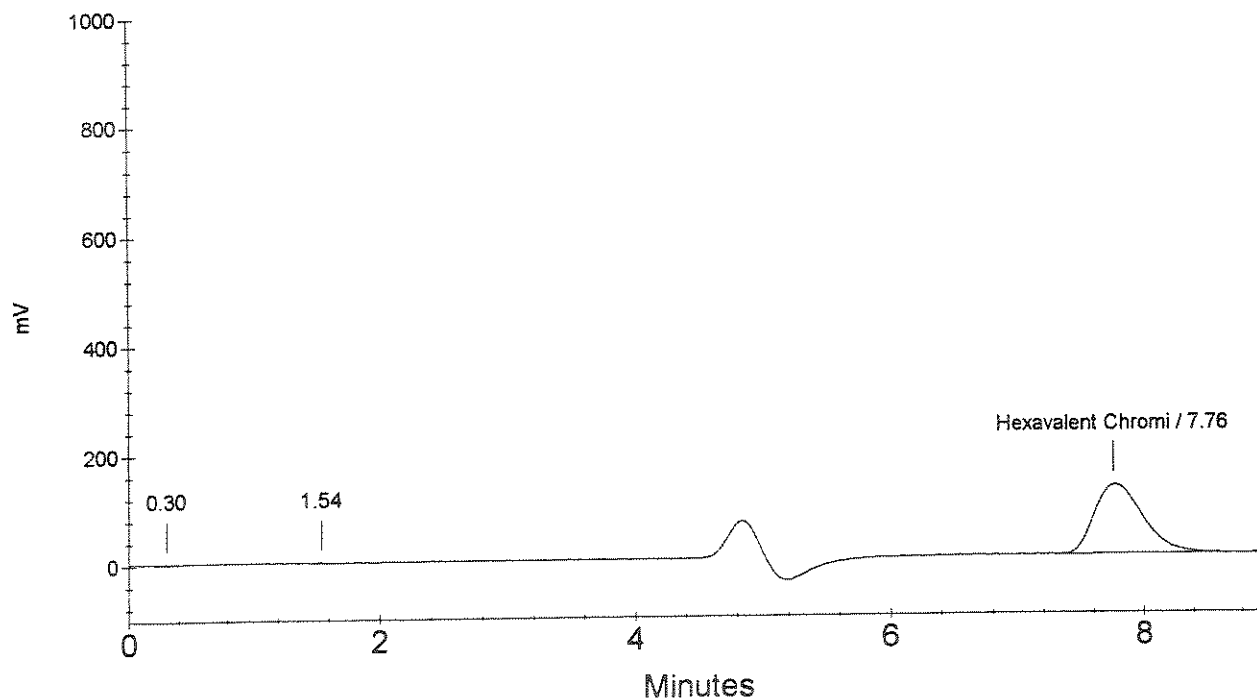
Calibration Type : EXTERNAL
Calibration Level : 4

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
CMW
7/17/08

STANDARD 4



Ion Chromatography Calibration Report
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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

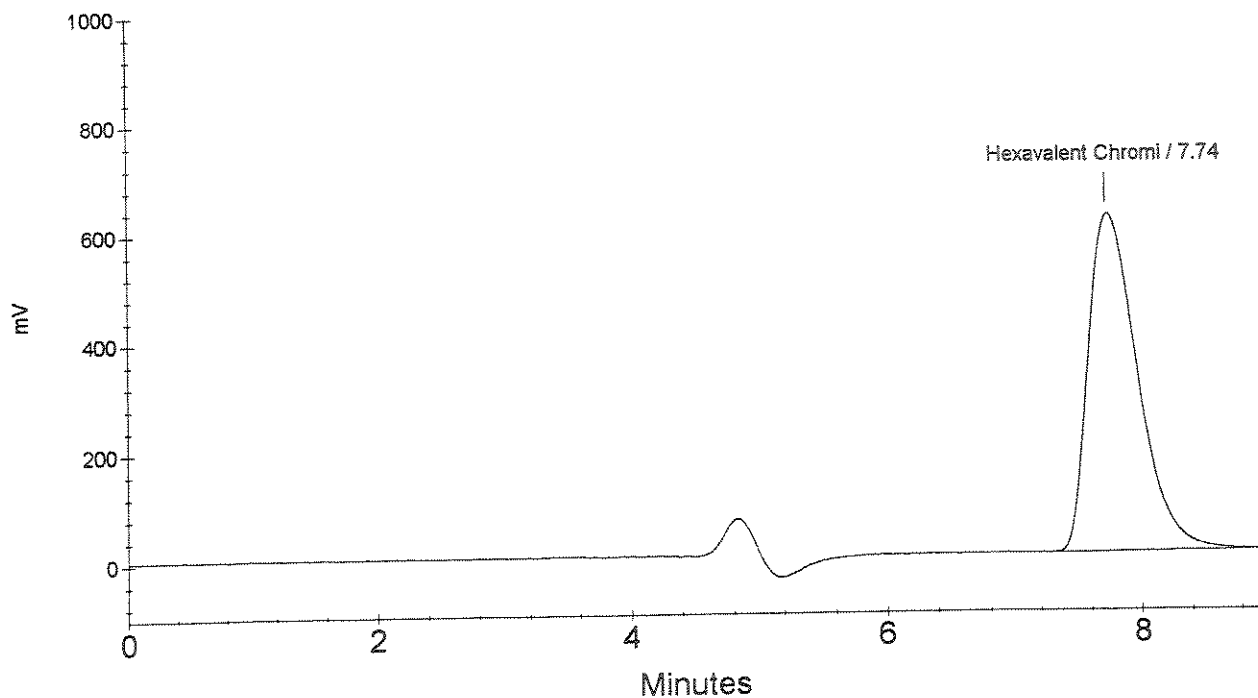
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

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	0.500	16638083

cmw
7/17/08
STANDARD 5



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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

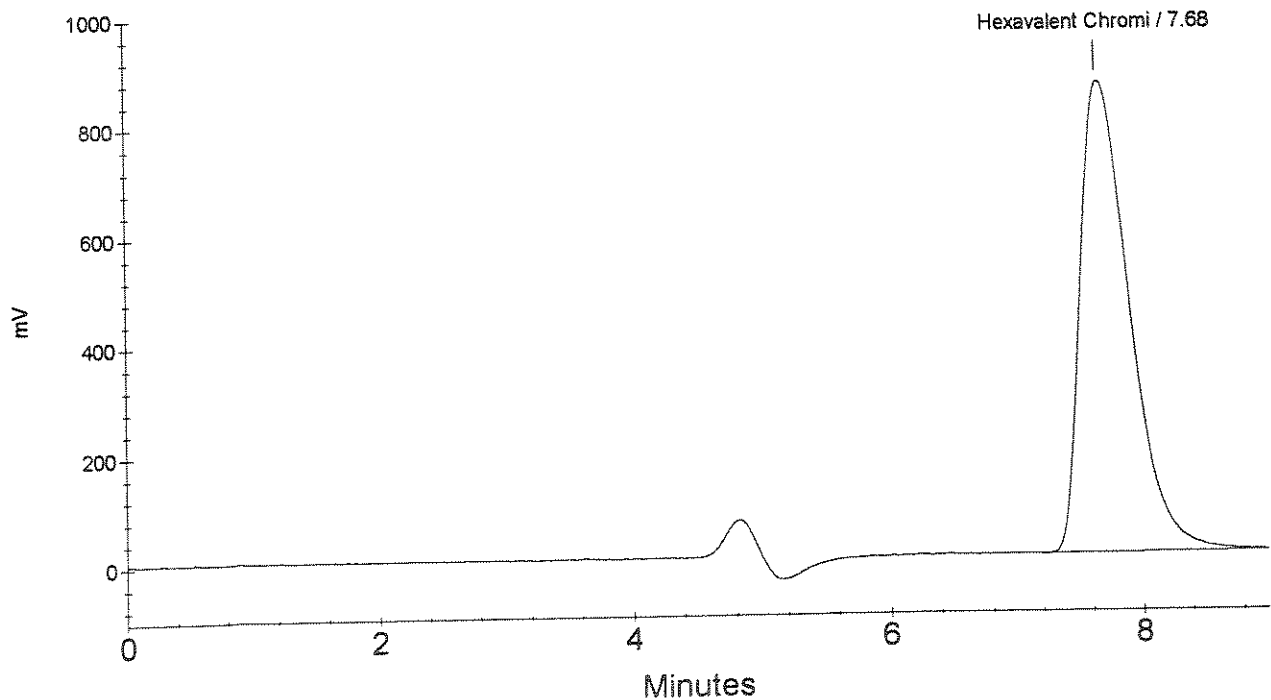
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 6

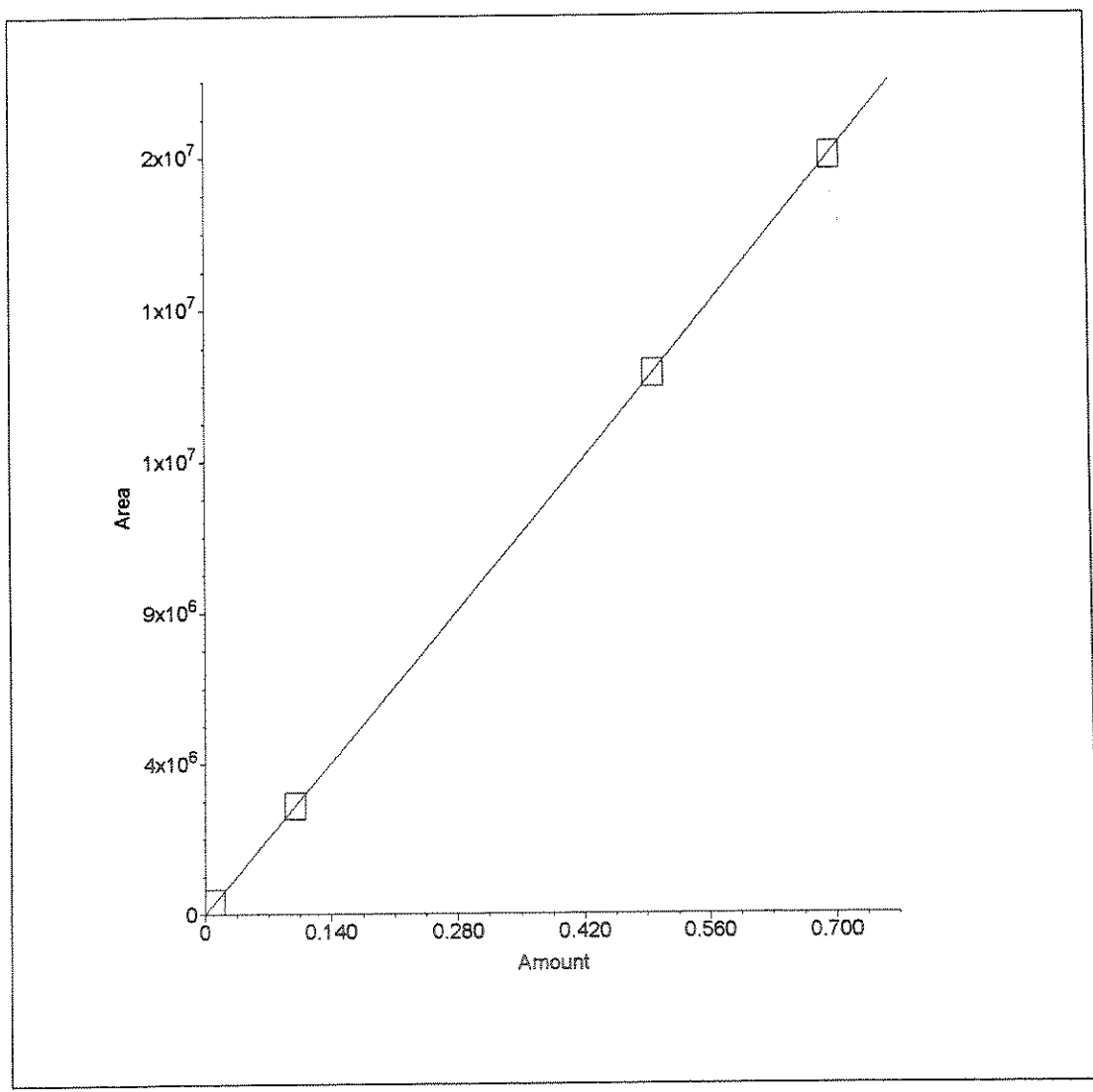
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.68	Hexavalent Chromi	0.700	23248396

CMW
7/17/08
STANDARD 6



1. Component: Hexavalent Chromi
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2 = 0.999998$
Amt = $3.01e-008 * Resp \pm 0.0002258$



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	NO PEAK DETECTED on 7/16/08
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	

AI450 XY Data Parameters

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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

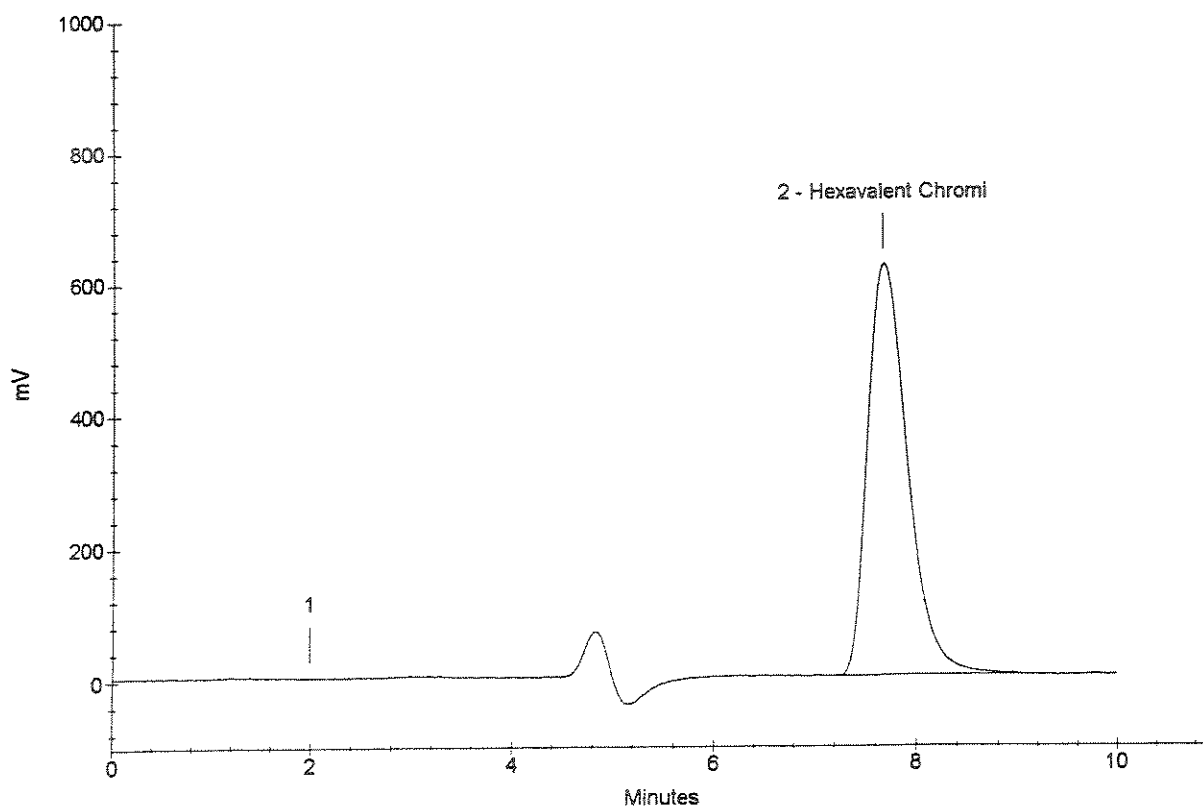
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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 <i>OK</i>	0.5027	16708230

ICV
7/17/08



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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

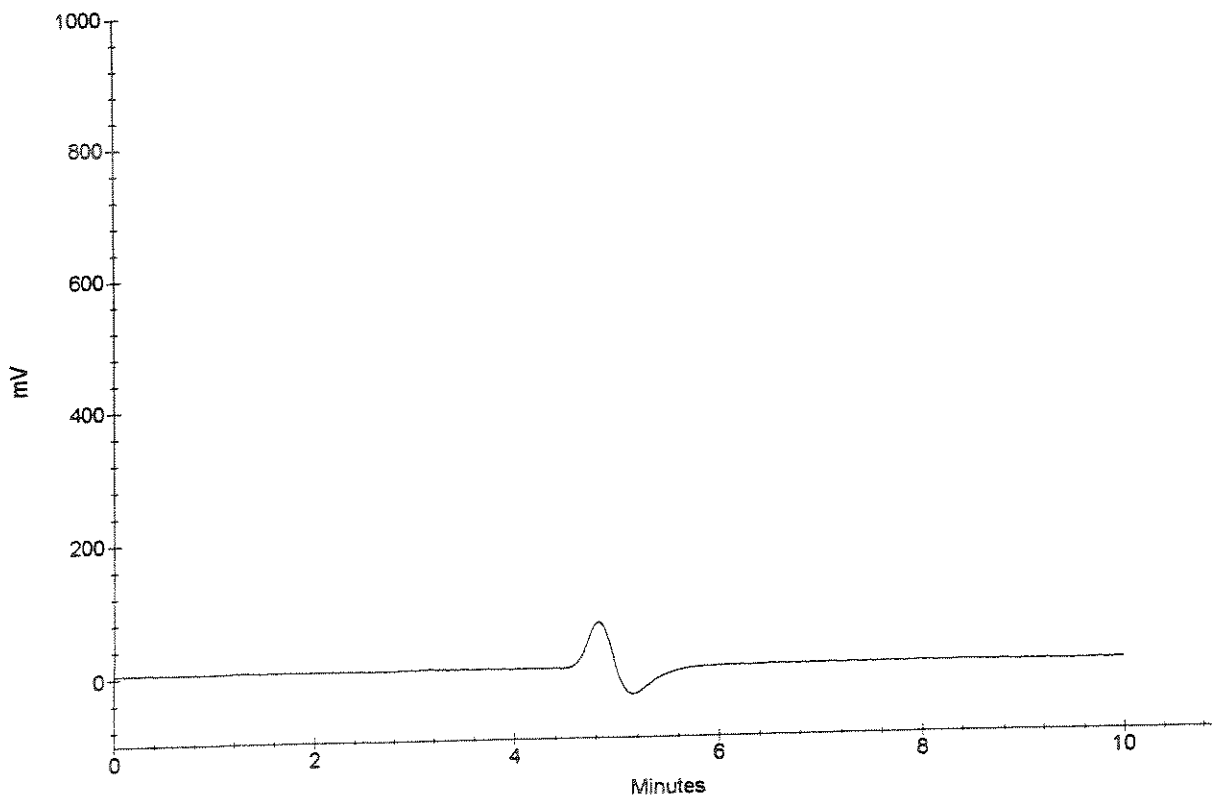
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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
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DK
CWT
7/17/08
ICB



Ion Chromatography Analytical Report
Columbia Analytical Services
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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

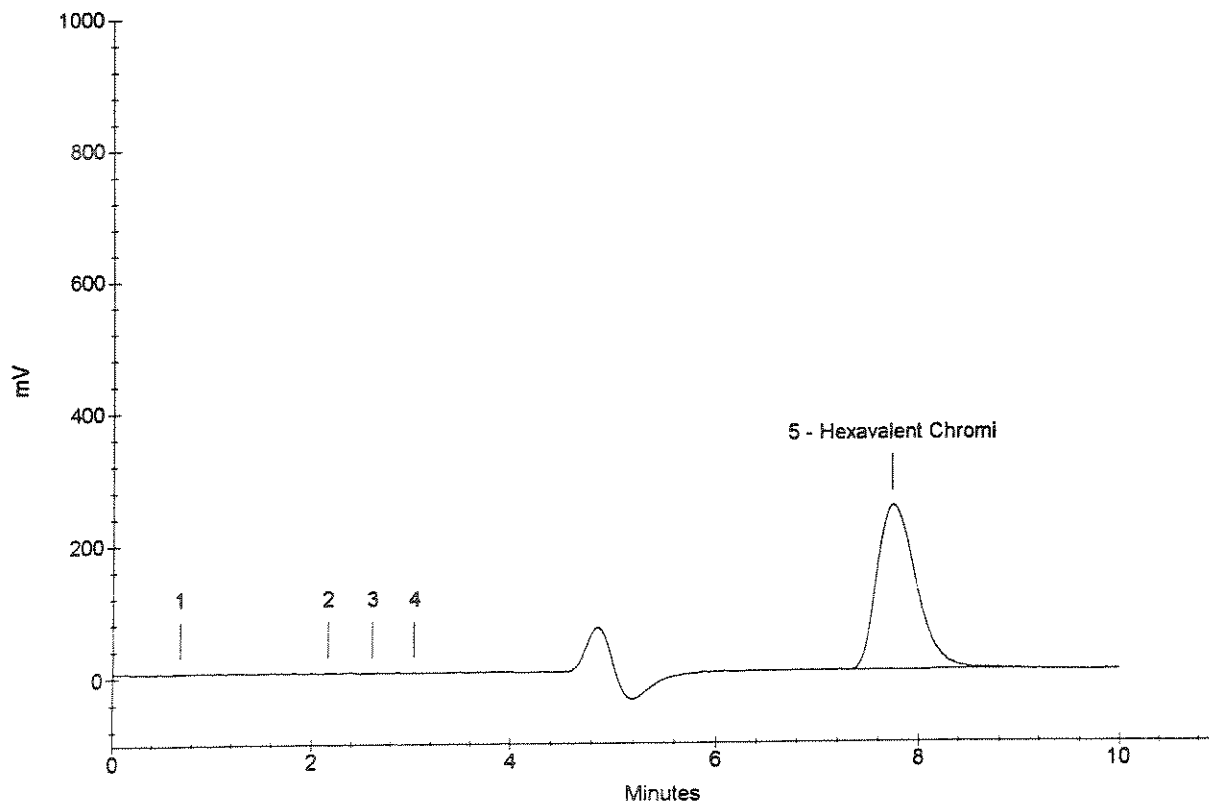
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

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
CMT
7/17/08
LCS



Ion Chromatography Cover Sheet

Instrument: Dionex 4000 Series, IC #1

Column: AS7 Analytical Column, NG-1 Guard Column, 4mm, 07/07/08

Curve Date: 07/16/08Loop size: 100 uL LoopAnalyst: C. WoodsAnalysis Date: 7-16-08Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Date Rec'd</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Standard Stock	03/14/07 19	WC76254G	Calibration Stds	Daily	SAME AS WC85001A
LCS / MS Soluble Stock	03/14/07 19	WC76254G	Soluble MS	Daily	SAME AS WC85001B
I/CCV Standard Stock	11/28/05 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 quantitation file will include a (0,0) point in the calibration curve when no area has been assigned to the zero standard.

CMW
7/16/07

(A) Cr⁶⁺ 7199 Calibration Standards

10ppm Cr⁶⁺ working stock: Do two (2) 1:10 serial dilutions of 1000ppm standard stock (WC 762436) 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) Cr⁶⁺ 7199 Soils Soluble Matrix Spike

Add 1ml of 100ppm working standard stock (1/10 dilution of 1000ppm standard (WC 762436) to sample during digestion. TV = 100/sample mass(g).

(C) Cr⁶⁺ 7199 Soils Insoluble Matrix Spike

Add approximately 10mg of Lead Chromate (WC 69237E) to sample or digest reagent during digestion.

TV = $\frac{\text{mg PbCrO}_4}{\text{sample mass (kg)}} \times 0.161 =$

(D) Cr⁶⁺ 7199 ICV/CCV

Add 0.5mls of 100ppm working reference stock (do two (2) 1:10 serial dilutions of 1000ppm reference stock (WC 760608) to 9.5mls of buffered DI. TV = 0.50

(E) Cr⁶⁺ 7199 Waters LCS

Add 0.2mls of 10ppm working standard stock to 10mls of buffered DI. TV = 0.20.

TC
7/16/07

(F) TOTN + NO₂ Buffer

To a tared 1-liter amber glass jar add:

- 778.5g DI
- 113.4g HCl (WC 762810 F)
- 76.5g NH₄OH (WC 762591 F)
- 0.90g EDTA (WC 76279 H)

Stir until dissolved + cool. Adjust pH to 8.5 w/ conc. HCl or NaOH. Exp 1 yr, 7/16/08.

Reviewed & Approved

By: CK

Date: 9/16/07

1/16/07 (A) Ascorbic Acid - OPO4 Kanelab
 UB In a 100 mL vol flask add ~80 ml DI.
 Dissolve 0.0g 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 - tuffdes
 GN In a 1 liter vol. flask add 20.65g KI (WC76230C) to
 ~500ml DI. Dissolve, then add 3.2g 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 $N_2S_2O_8$ - tuffdes
 GN 50.0 ml $N_2S_2O_8$ (WC76237G) → 200ml 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 Standard, 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 Ferric Ammonium Sulfate $\cdot 6H_2O$.
 Cat # F20245-1, EMD Lot # 45164625,
 CAS # 7783-85-9. Store @ R.T. Expires 3/19/10

Received from Fisher

(F) (1) x 100 mL Chromium Reference Std Soln, 1000ppm.
 Lot # SC192-100, Fisher Lot # 067819, CAS # 7732-18-5,
 7778-50-9. Store @ R.T. Expires 1/2009

(G) (1) x 500 mL Chromium Reference Std Soln, 1000ppm.
 Lot # 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) Post
 NM - same

(B) Hypoc
 - same

3/20/07 (C) TSS
 DF 0.2
 w/DI.

3/21/07 (D) 10% T
 NB Same.

3/22/07 (E) NH_3 B
 TC To a To a
 - 50.0g
 - 9.0g
 - 965g
 Stir until

(F) NH_3 C
 To a jar
 - 3.50g Soc
 - 1000g UPD.
 Stir until

(G) Sodium
 To a tar
 - 888g U
 - 94.2g L
 - 32.0g S
 Stir until
 Store @ R

(H) Color Reac
 To a jar
 75.0g Sodium
 0.50g Sodium
 45.1

12/12/07 (A) TPO4 Color Reagent

TR To a dated 500 mL plastic bottle add:

- 347.0g UPOI
- 19.2g conc. instrumentalyzed H_2SO_4
- 36.0g Stock APT
- 106.5g NH_3 Molybdate Solution

Mix well. Degas prior to use. Store @ $4^\circ C$.
Exp. 1 yr., 12/12/08, or when discolored.

(B) Ascorbic Acid

To a dated 500 mL plastic bottle add:

- 30.0g Ascorbic Acid
- 487.5g UPOI

Degas w/ Helium for 5 minutes then add,
- 0.50g Dextery Sodium Sulfate
Store @ $4^\circ C$. 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 WC85073F. Prepared solution X3.

(F) Hypochlorite - NH_3

- same as WC85051B. Prepare fresh each run.

~~Article~~
Received from Environmental Express

(G) (1) x 250 mL 1000 ppm 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.

TC 11/10/08
11/10/08 ~~A~~ DPD Indicator

TC in a 500 ml vol flask, dissolve 0.50g DPD (WC16015F) and 0.100g EDTAC and 4ml 1 + 3 H₂SO₄ (WC85027B) in w/DI, Bring to vol. Store @ RT in amber glass Exp 1 yr, or when discolored, 1/10/09

11/10/08 NM B Sodium Phenolate-NH₃
- same as WC85088F. Exp. 1 year, 1/10/09.

11/10/08 NM C Erwochrome Black-T Indicator (Hardness)
- same as WC85075H. Exp. 5/31/08.

11/11/08 KP D TSS Reference
0.2152g K₂Cr₂O₇ (WC69285G) brought to 1000g w/DI. Store at 4°C in a plastic bottle.
TV = 215mg/L exp: 01/11/09

11/11/08 ~~11/10/08~~ E Citrat Soils Buffer
In a 500 ml vol. flask dissolve
- 43.545g K₂HPO₄ (WC76227G)
- 34.02g KH₂PO₄ (WC85054G)
in ~400 ml DI. Bring to vol. w/ DI. Store @ 4°C. Exp. 1 yr. 1/11/09.

F Citrat Soils Digest Solution
20.0g NaOH pellets (WC85072G) and 30.0g Na₂CO₃ (WC76232D) dissolved in DI. Bring to 1 liter volumetrically w/ DI. Exp. 1 month, 2/11/08.

11/11/08 G 0.02500 Na₂S₂O₃ - Sulfides
TC Dilute 50 mls 1.0N Na₂S₂O₃ (WC85067D) → 500 mls volumetrically w/ DI. Store for 2 weeks @ 4°C. Exp. 1/25/08.

11/11/08 AB H Received from Alpha Reser
(H) (1) x 100g Gen II Chromate. Lot # 14125, 44 Lot# J03Q003, CAS# 7758-97-6. Store @ R.T. Expires 1/1/11

Run #: 162625

Analyte: CHLORIDE 9056 CHLORIDE BY ION CHROMATOGRAPHY

Printed: 06/19/08 10:45

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
				<u>RESULT</u>								
ESMP	R2844538	1109708	WATER	2.00	U	10.0	0.200			06/17/08		ASPB
CHK5		1110080	WATER	6.49		1.0	0.200	99.9		06/17/08		
BLK4		1110081	WATER	0.200	U	1.0	0.200			06/17/08		
SPKB		1110082	WATER	1.95		1.0	0.200	97.6		06/17/08		

Records printed: 4

ANALYTE:G:\STARLIMS\ASBAR.RF1

Page 1

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Run #: 162626

Analyte: SULFATE 9056 SULFATE BY ION CHROMATOGRAPHY

Printed: 06/19/08 10:50

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK5		1110062	WATER	6.26	1.0	0.200	97.8		06/17/08		
BLK4		1110063	WATER	0.200	1.0	0.200			06/17/08		
SPKB		1110064	WATER	1.83	1.0	0.200	91.5		06/17/08		
ESMP	R2844084	1103758	WATER	0.630	10.0	0.200			06/17/08		2
ESMP	R2844084	1103760	WATER	1.17	10.0	0.200			06/17/08		2
ESMP	R2844084	1103761	WATER	68.6	10.0	0.200			06/17/08	QC	2
LDUP		1110065	WATER	60.2	10.0	0.200		13.02	06/17/08		
SPK1		1110066	WATER	74.8	10.0	0.200	31.2		06/17/08		
ESMP	R2844084	1103764	WATER	0.249	10.0	0.200			06/17/08		2
ESMP	R2844084	1103757	WATER	0.180	10.0	0.200			06/17/08		2
ESMP	R2844084	1103762	WATER	0.712	10.0	0.200			06/17/08		2
ESMP	R2844084	1103763	WATER	0.306	10.0	0.200			06/17/08		2
ESMP	R2844538	1109708	WATER	2.00	10.0	0.200			06/17/08		ASPB

Records printed: 13

ANALYTE:G:\STARLIMS\ASBAR.RP1

Page 1

01275

Run #: 162630

Analyte: NITRATE 9056 NITRATE NITROGEN (NO3) AS N BY ION CHROM

Printed: 06/19/08 11:25

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
				<u>RESULT</u>								
ESMP	R2844538	1109708	WATER	0.500	U	10.0	0.0500			06/17/08		ASPB
CHK5		1110083	WATER	3.64		1.0	0.0500	101.0		06/17/08		
BLK4		1110084	WATER	0.0500	U	1.0	0.0500			06/17/08		
SPKB		1110085	WATER	0.951		1.0	0.0500	95.1		06/17/08		

Records printed: 4

Run #: 162631

Analyte: NITRITE 9056 NITRITE NITROGEN (NO2) AS N BY ION CHROM

Printed: 06/19/08 11:25

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE</u>	<u>QC</u>	<u>PKG #</u>
				<u>RESULT</u>						<u>ANALYZED</u>		
ESMP	R2844538	1109708	WATER	0.500	U	10.0	0.05			06/17/08		ASPB
CHK5		1110086	WATER	3.56		1.0	0.05	98.8		06/17/08		
BLK4		1110087	WATER	0.0500	U	1.0	0.05			06/17/08		
SPKB		1110088	WATER	1.00		1.0	0.05	100.4		06/17/08		

Records printed: 4

06-17-08

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	ANALYST: TC	
Columbia-no dilution	CCB	2	1.0	1.0	1.0	100.0	0	1	1	PIPETTES: LUCY.MINE	
Columbia-no dilution	LCS	3	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	PB SOIL	4	1.0	1.0	1.0	100.0	0	1	1	IG TO 100: S	
Columbia-no dilution	LCS SOIL	5	1.0	1.0	1.0	100.0	0	1	1	IG TO 100: S	
Columbia-no dilution	1085931 R-42945	6	1.0	1.0	1.0	100.0	0	1	1	IG TO 100: S	
Columbia-no dilution	1085931 DUP	7	1.0	1.0	1.0	100.0	0	1	1	IG TO 100: S	
Columbia-no dilution	1085931 SPK - 10/15/08	8	1.0	1.0	1.0	100.0	0	1	1	IG TO 100: S	
Columbia-no dilution	1108177 R-44417	9	1.0	40.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1108180	10	1.0	40.0	1.0	100.0	0	1	1	C	
Columbia-no dilution	1108660	11	1.0	40.0	1.0	100.0	0	1	1	S	
Columbia-no dilution	1108660	12	1.0	40.0	1.0	100.0	0	1	1	C	
Columbia-no dilution	1739 LCR	13	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	1739 LCR DUP	14	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	1739 LCR SPK - 10/15/08	15	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	1701 LCR	16	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	186 LPR	17	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	CCV	18	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	19	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	186 LPR DUP	20	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	206 LPR	21	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	230 LPR	22	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	SH-35	23	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	SH-29LT	24	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	SH-27LT	25	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	SH-DUPLICATE	26	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	PR061608B	27	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	MW-14D	28	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	SW-2	29	1.0	10.0	1.0	100.0	0	1	1	CMS	
Columbia-no dilution	CCV	30	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	31	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	LCS	32	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1108905 R-44491	33	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1108906	34	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1108907	35	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1108909	36	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1108910	37	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1108913	38	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1108915	39	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1108917	40	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1108917 DUP	41	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1108917 SPK	42	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1103758 R-44084	43	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1103760	44	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	CCV	45	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	46	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1103761	47	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1103761 DUP	48	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1103761 SPK	49	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1103764	50	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1103757	51	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1103759	52	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1103762	53	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1103763	54	1.0	10.0	1.0	100.0	0	1	1	CS	

WORK LIST
UPDATED

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution	1093572 R-43448	55	1.0	100.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1093572 DUP	56	1.0	100.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1093572 SPK	57	1.0	100.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1093573	58	1.0	100.0	1.0	100.0	0	1	1	S	
Columbia-no dilution	CCY	59	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	60	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	LNAQ0613	61	1.0	40.0	1.0	100.0	0	1	1	BTU	
Columbia-no dilution	1106280A	62	1.0	40.0	1.0	100.0	0	1	1	BTU	
Columbia-no dilution	1106280B 3u3	63	1.0	40.0	1.0	100.0	0	1	1	BTU	
Columbia-no dilution	1106280A SPK	64	1.0	40.0	1.0	100.0	0	1	1	BTU	
Columbia-no dilution	1106281A	65	1.0	40.0	1.0	100.0	0	1	1	BTU	
Columbia-no dilution	1107619A	66	1.0	40.0	1.0	100.0	0	1	1	BTU	
Columbia-no dilution	1107620A	67	1.0	40.0	1.0	100.0	0	1	1	BTU	
Columbia-no dilution	CCY	68	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	69	1.0	1.0	1.0	100.0	0	1	1		

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

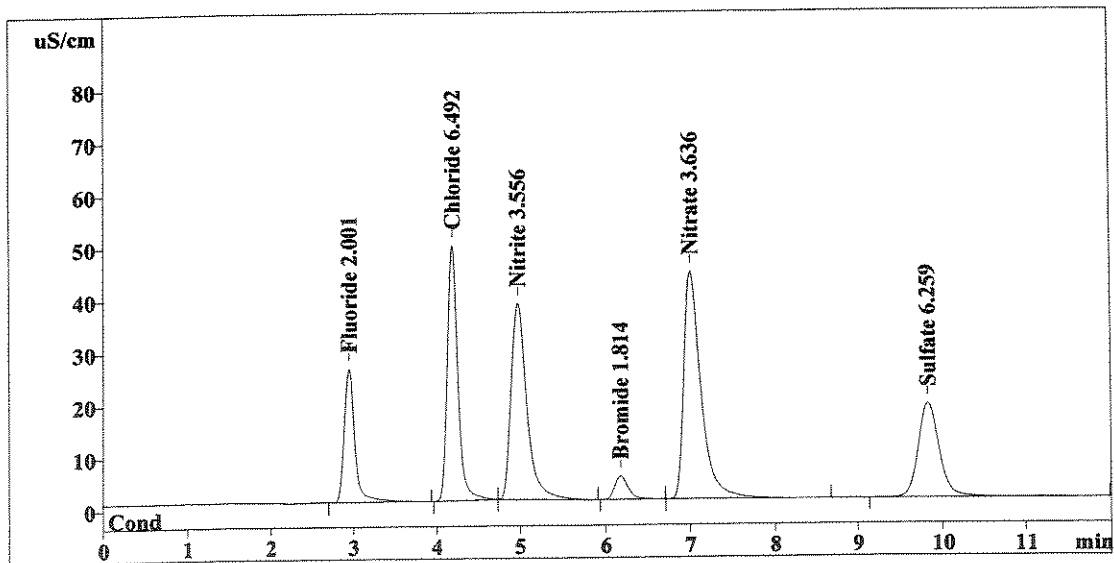
Method 300.0/9056

Report date: 6/17/2008 10:36:33
 Printed by: User
 Ident: CCV
 Analysis from: 6/17/2008 10:24:35
 File: S6171024.CHW

Last save: 6/17/2008 10:36:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37068
 SAMPLE: ANALYST: TC
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	223.328	2.001	Fluoride
2	4.18	423.142	6.492	Chloride
3	4.97	483.874	3.556	Nitrite
4	6.18	50.598	1.814	Bromide
5	7.01	602.077	3.636	Nitrate
6	9.83	311.494	6.259	Sulfate
6	12.00	2094.512	23.758	

This report has been created by IC Net
 METROHM LTD

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

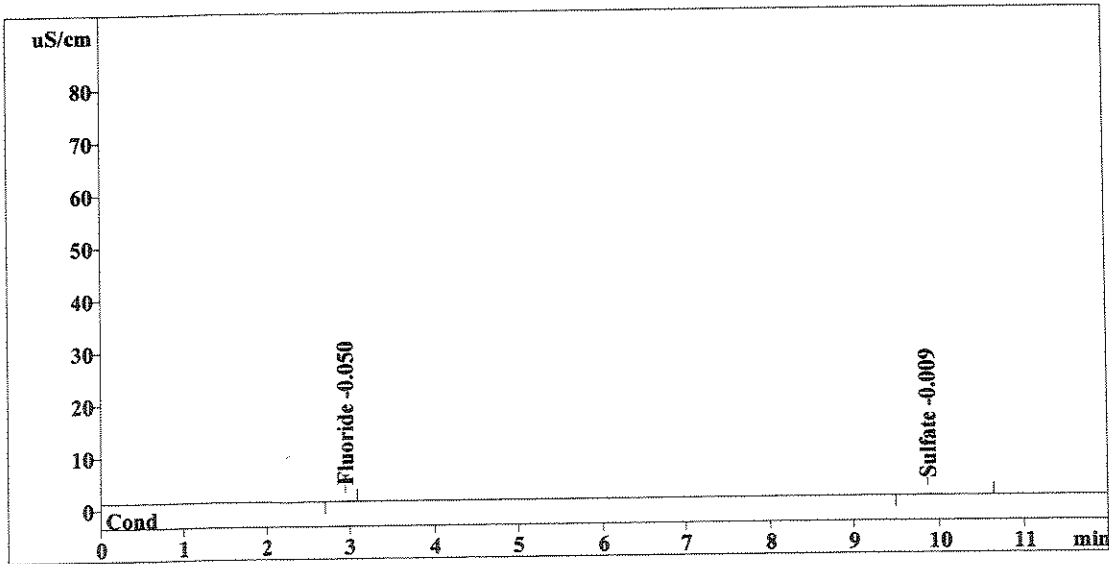
Method 300.0/9056

Report date: 6/17/2008 10:50:39
 Printed by: User
 Ident: CCB
 Analysis from: 6/17/2008 10:38:41
 File: S6171038.CHW

Last save: 6/17/2008 10:50:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37069
 SAMPLE: PIPETTES: LUCY, MINE
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	0.057	-0.050	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	9.88	0.623	-0.009	Sulfate
<hr/>				
6	12.00	0.680	0.059	

OK
↓

6/18/08

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 Columbia Analytical Services
 Rochester, NY 14609

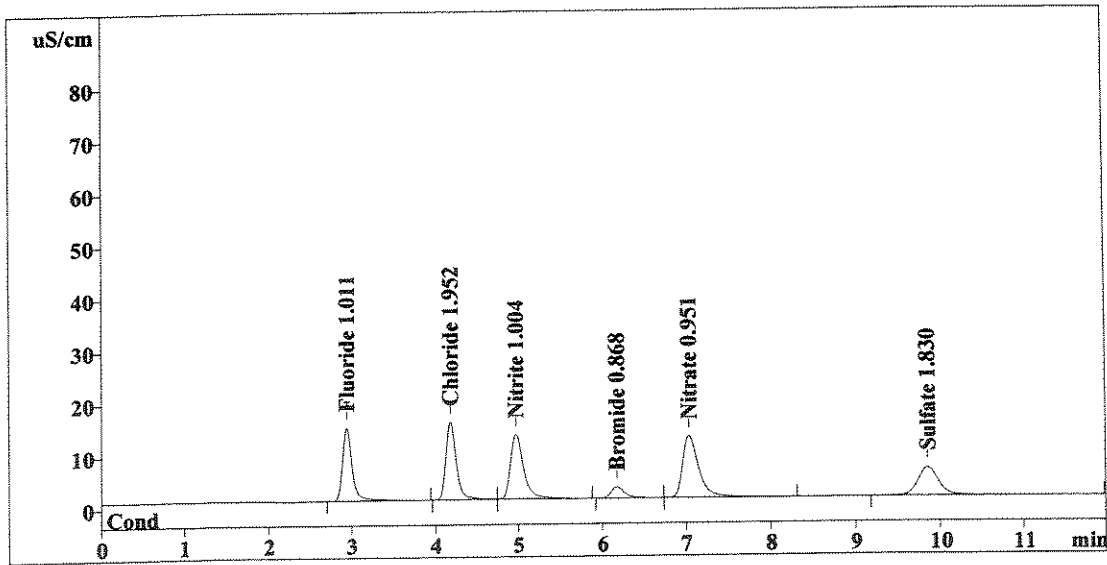
Method 300.0/9056

Report date: 6/17/2008 11:04:45
 Printed by: User
 Ident: LCS
 Analysis from: 6/17/2008 10:52:47
 File: S6171052.CHW

Last save: 6/17/2008 11:04:45

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37070
 SAMPLE:
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	115.530	1.011	Fluoride
2	4.18	126.127	1.952	Chloride
3	4.97	137.092	1.004	Nitrite
4	6.17	23.853	0.868	Bromide
5	7.04	155.503	0.951	Nitrate
6	9.85	91.840	1.830	Sulfate
<hr/>				
6	12.00	649.944	7.615	

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6/18/08
 Use no Bromides.
6/18/08

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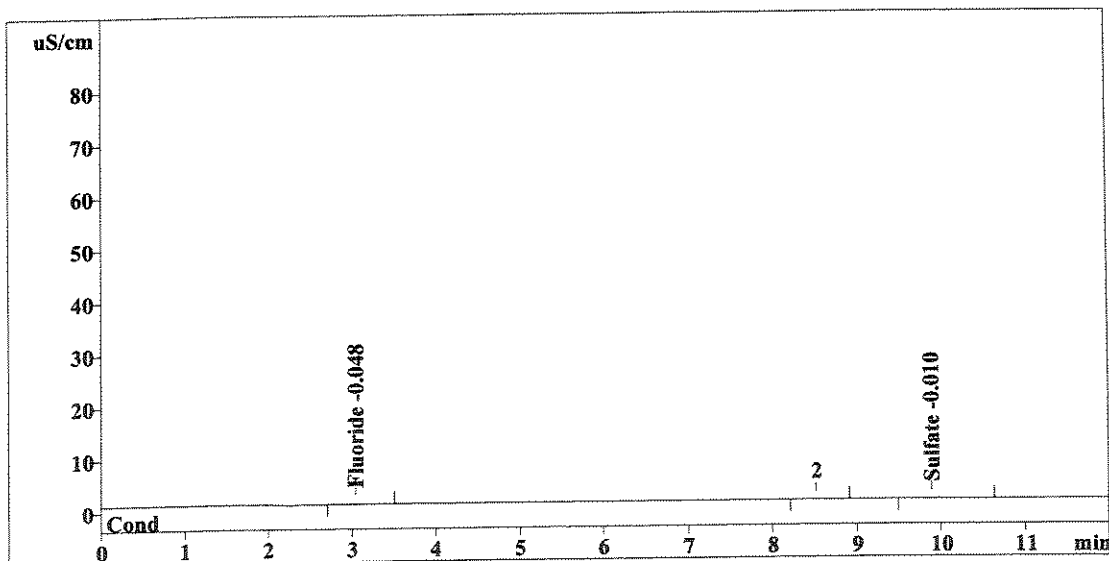
Method 300.0/9056

Report date: 6/17/2008 11:24:38
 Printed by: User
 Ident: PB SOIL
 Analysis from: 6/17/2008 11:12:39
 File: S6171112.CHW

Last save: 6/17/2008 11:24:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37071
 SAMPLE: 1G TO 100: S
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.04	0.248	-0.048	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	9.90	0.593	-0.010	Sulfate
<hr/>				
6	12.00	0.840	0.058	

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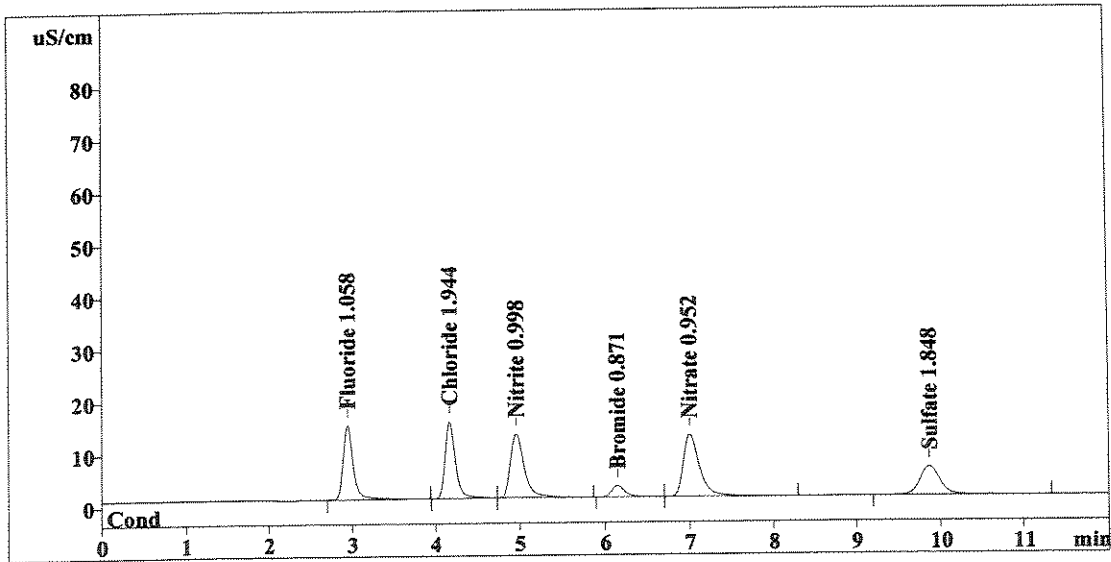
Method 300.0/9056

Report date: 6/17/2008 11:38:44
 Printed by: User
 Ident: LCS SOIL
 Analysis from: 6/17/2008 11:26:45
 File: S6171126.CHW

Last save: 6/17/2008 11:38:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37072
 SAMPLE: 1G TO 100: S
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	120.623	1.058	Fluoride
2	4.17	125.640	1.944	Chloride
3	4.96	136.330	0.998	Nitrite
4	6.15	23.940	0.871	Bromide
5	7.00	155.625	0.952	Nitrate
6	9.87	92.739	1.848	Sulfate → 1.848
6	12.00	654.898	7.671	

Handwritten notes:
 Next to peak 4: CUT LOW
 Next to peak 5: ok
 Next to peak 6: ok
 At the bottom: 6/18/08

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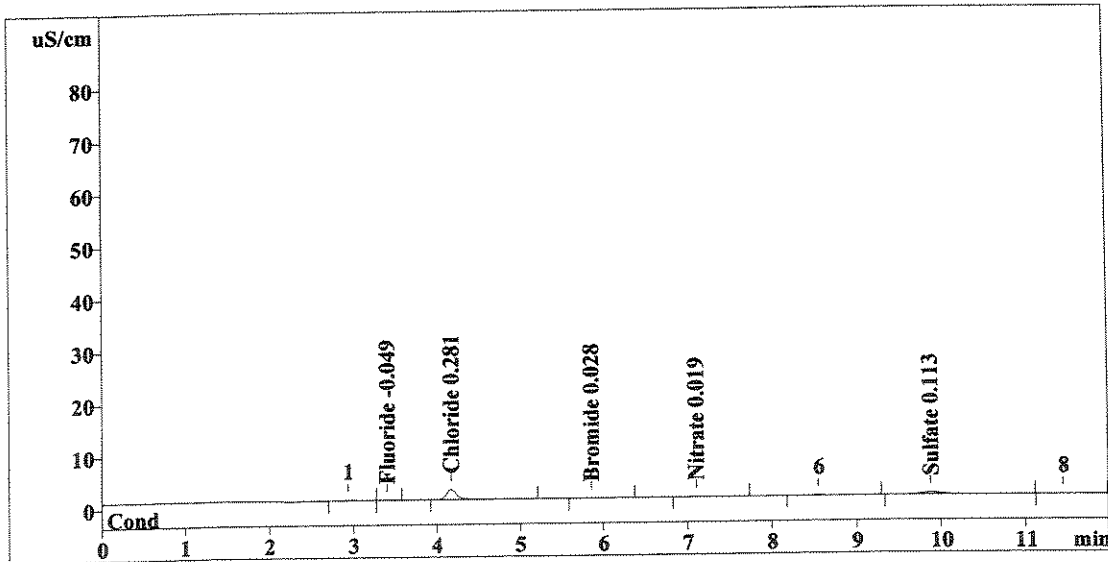
Method 300.0/9056

Report date: 6/17/2008 11:52:49
 Printed by: User
 Ident: 1085931 R-42945
 Analysis from: 6/17/2008 11:40:51
 File: S6171140.CHW

Last save: 6/17/2008 11:52:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37073
 SAMPLE: 1G TO 100: S
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.40	0.099	-0.049	Fluoride
2	4.17	16.864	0.281	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	0.113	0.028	Bromide
5	7.10	0.392	0.019	Nitrate
6	9.88	6.684	0.113	Sulfate → 11.3
6	12.00	24.152	0.490	

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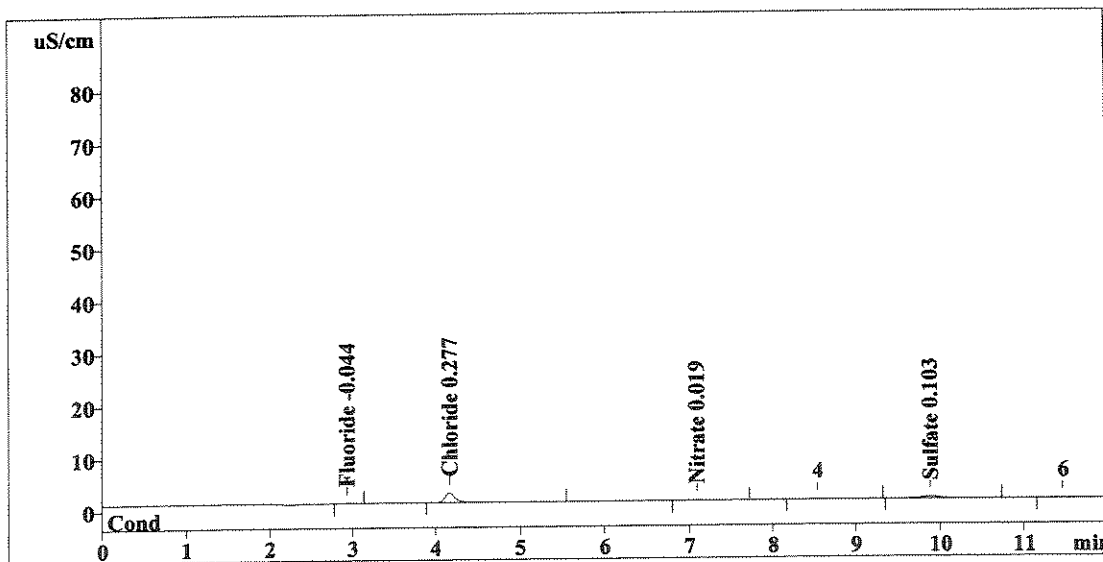
Method 300.0/9056

Report date: 6/17/2008 12:06:55
 Printed by: User
 Ident: 1085931 DUP
 Analysis from: 6/17/2008 11:54:57
 File: S6171154.CHW

Last save: 6/17/2008 12:06:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37074
 SAMPLE: 1G TO 100: S
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.659	-0.044	Fluoride
2	4.17	16.585	0.277	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.09	0.412	0.019	Nitrate
6	9.88	6.174	0.103	Sulfate → 10.3
<hr/>				
6	12.00	23.829	0.443	

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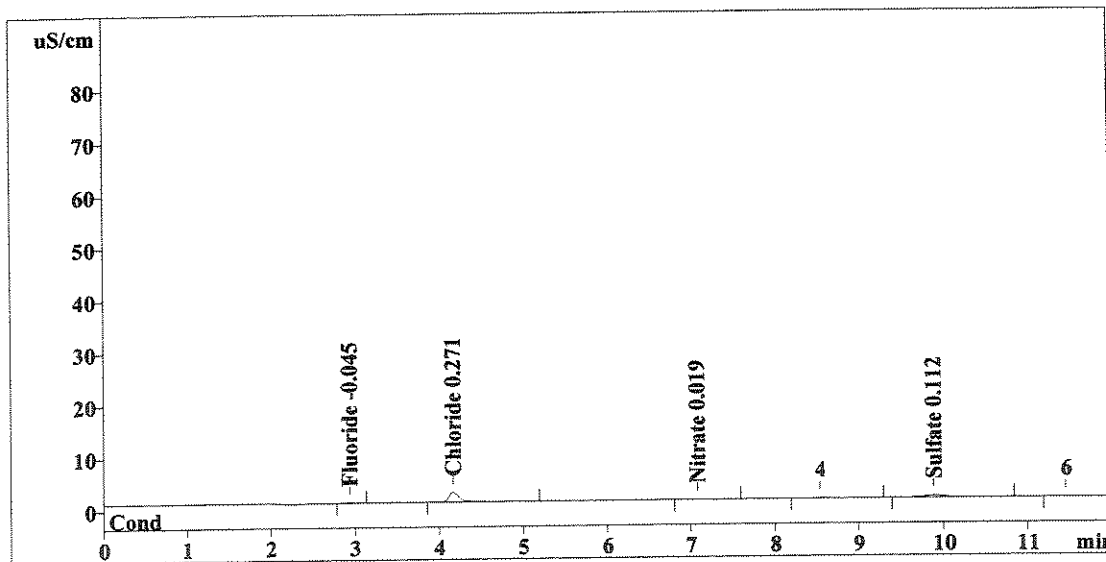
Method 300.0/9056

Report date: 6/17/2008 12:21:01
 Printed by: User
 Ident: 1085931 SPK
 Analysis from: 6/17/2008 12:09:03
 File: S6171209.CHW

Last save: 6/17/2008 12:21:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37075
 SAMPLE: 1G TO 100: S
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.587	-0.045	Fluoride
2	4.17	16.181	0.271	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.08	0.377	0.019	Nitrate
6	9.89	6.649	0.112	Sulfate
<hr/>				
6	12.00	23.794	0.447	

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Sample not spiked.
6/18/08
Not reported

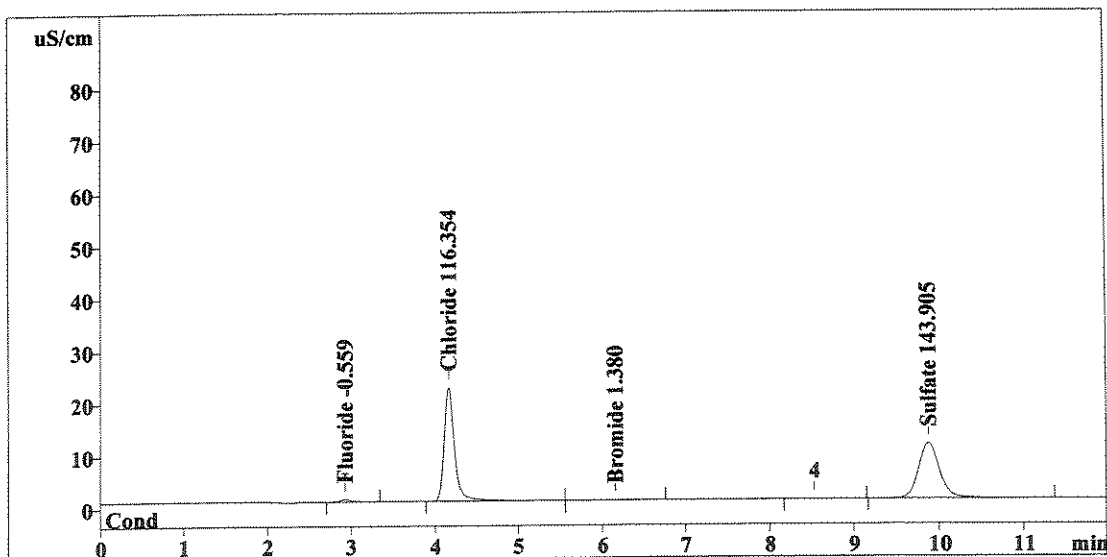
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/17/2008 12:35:07
 Printed by: User
 Ident: 1108177 R-44417
 Analysis from: 6/17/2008 12:23:09
 File: S6171223.CHW

Method 300.0/9056

Last save: 6/17/2008 12:35:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37076
 SAMPLE: CS
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	3.945	-0.559	Fluoride
2	4.16	188.745	116.354	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.16	0.297	1.380	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.88	179.510	143.905	Sulfate
<hr/>				
6	12.00	372.497	262.197	

Handwritten signature and date: 6/18/08

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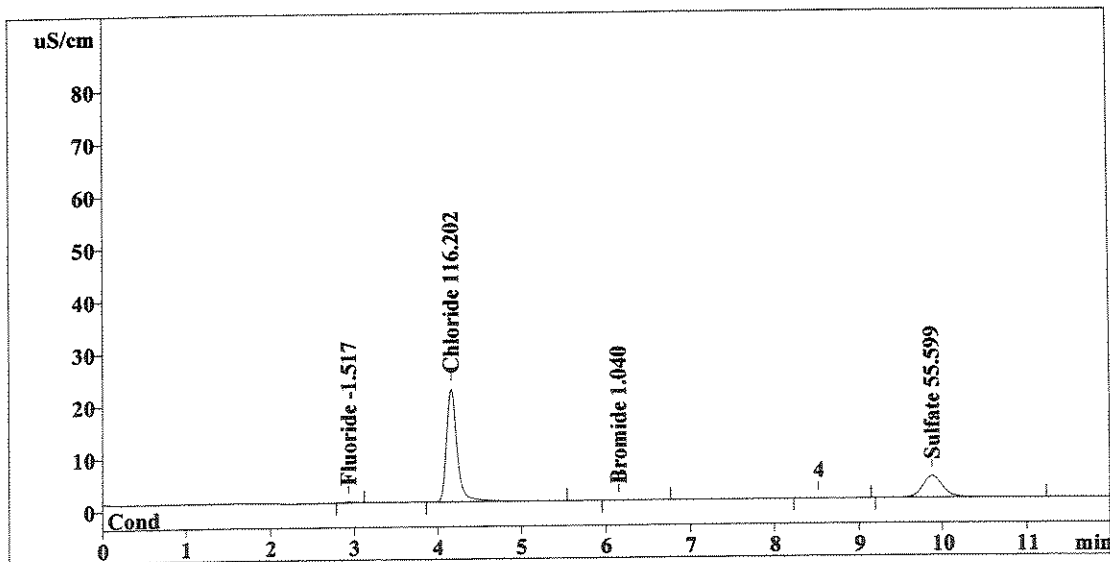
Method 300.0/9056

Report date: 6/17/2008 12:49:13
 Printed by: User
 Ident: 1108180
 Analysis from: 6/17/2008 12:37:15
 File: S6171237.CHW

Last save: 6/17/2008 12:49:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37077
 SAMPLE: C
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	1.335	-1.517	Fluoride
2	4.16	188.496	116.202	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.16	0.057	1.040	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.88	70.012	55.599	Sulfate
<hr/>				
6	12.00	259.900	174.358	

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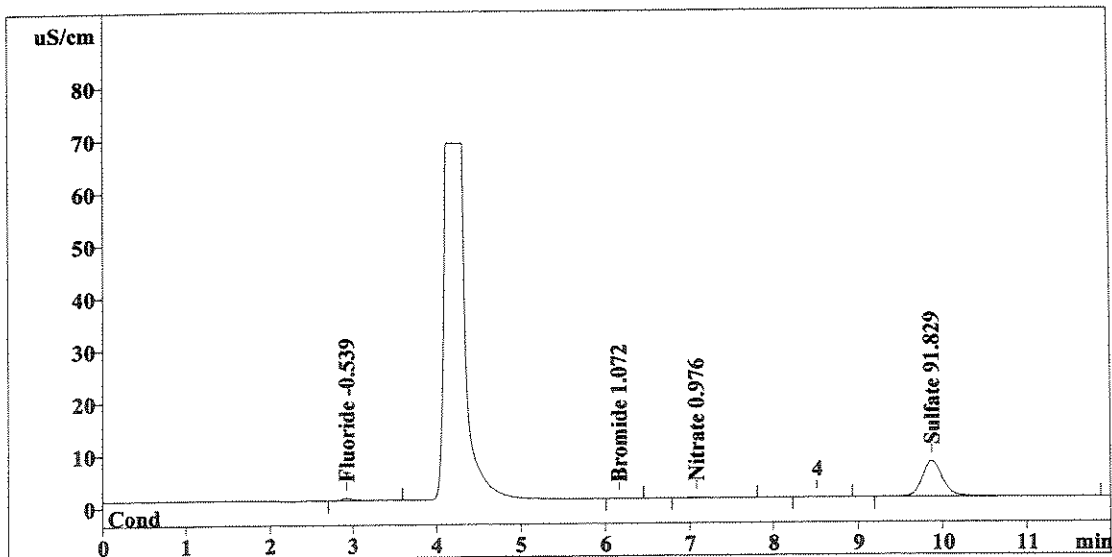
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/17/2008 13:03:19
 Printed by: User
 Ident: 1108660
 Analysis from: 6/17/2008 12:51:21
 File: S6171251.CHW

Method 300.0/9056

Last save: 6/17/2008 13:03:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37078
 SAMPLE: S
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	3.999	-0.539	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.17	0.079	1.072	Bromide
5	7.08	1.329	0.976	Nitrate
6	9.88	114.937	91.829	Sulfate
6	12.00	120.344	94.416	

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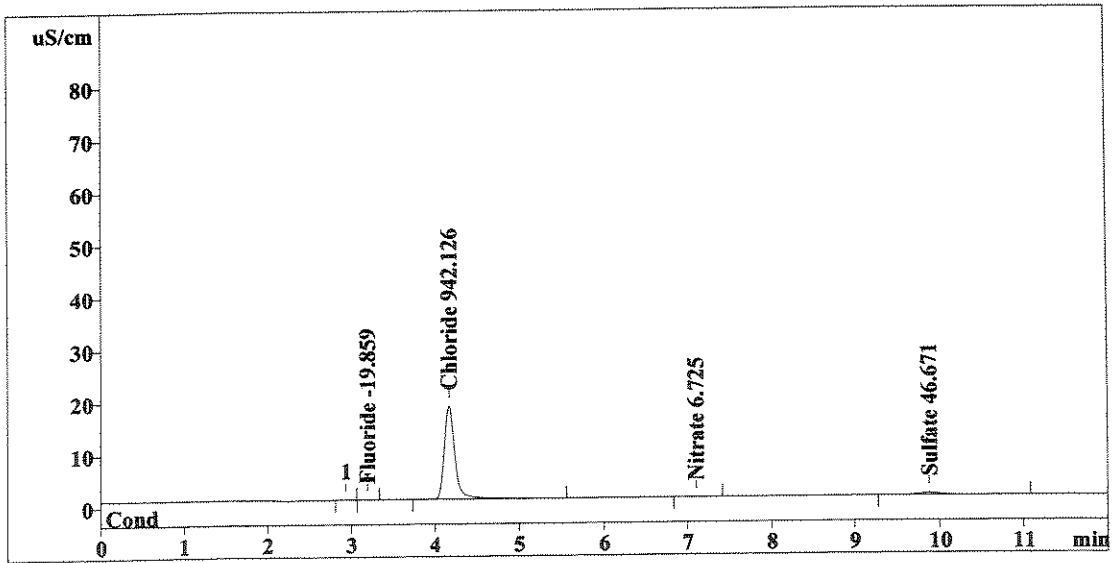
Method 300.0/9056

Report date: 6/17/2008 13:17:25
 Printed by: User
 Ident: 1108660
 Analysis from: 6/17/2008 13:05:27
 File: S6171305.CHW

Last save: 6/17/2008 13:17:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37079
 SAMPLE: C
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.19	0.060	-19.859	Fluoride
2	4.17	152.539	942.126	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.09	0.067	6.725	Nitrate
6	9.88	6.857	46.671	Sulfate
<hr/>				
6	12.00	159.523	1015.382	

Handwritten signature and date: 6/18/08

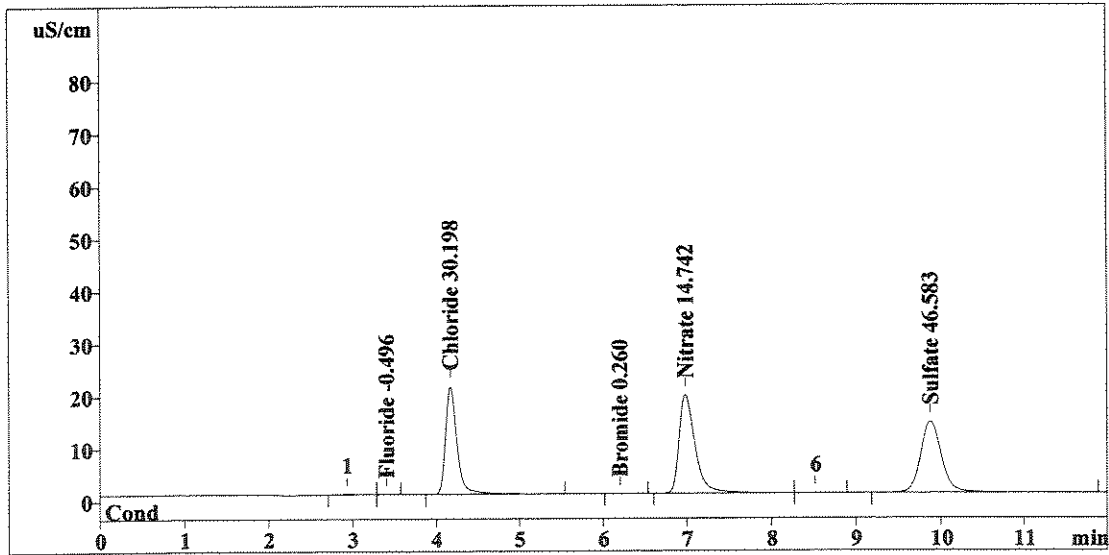
This report has been created by IC Net
 METROHM LTD

Report date: 6/17/2008 13:31:31
 Printed by: User
 Ident: 1739 LCR 1105187
 Analysis from: 6/17/2008 13:19:32
 File: S6171319.CHW

Last save: 6/17/2008 13:31:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37080
 SAMPLE: CNS
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.40	0.063	-0.496	Fluoride
2	4.17	196.001	30.198	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.21	0.058	0.260	Bromide
5	6.98	242.460	14.742	Nitrate
6	9.88	232.119	46.583	Sulfate
6	12.00	670.702	92.279	

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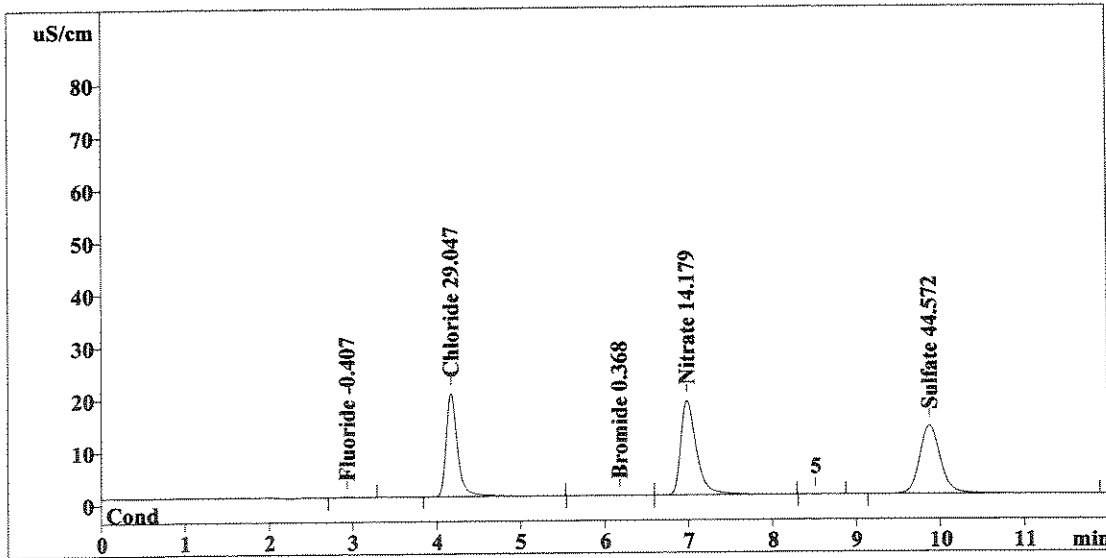
Report only NO3 due to holdup time issues.
 CWT
 6/18/08

Report date: 6/17/2008 13:45:36
 Printed by: User
 Ident: 1739 LCR DUP 1105187 DVP
 Analysis from: 6/17/2008 13:33:38
 File: S6171333.CHW

Last save: 6/17/2008 13:45:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37081
 SAMPLE: CNS
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	1.032	-0.407	Fluoride
2	4.17	188.471	29.047	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.19	0.362	0.368	Bromide
5	6.99	233.101	14.179	Nitrate
6	9.88	222.145	44.572	Sulfate
6	12.00	645.111	88.573	

Handwritten marks: 'x' next to rows 2, 5, and 6; '6/18/08' written below row 6.

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Method 300.0/9056

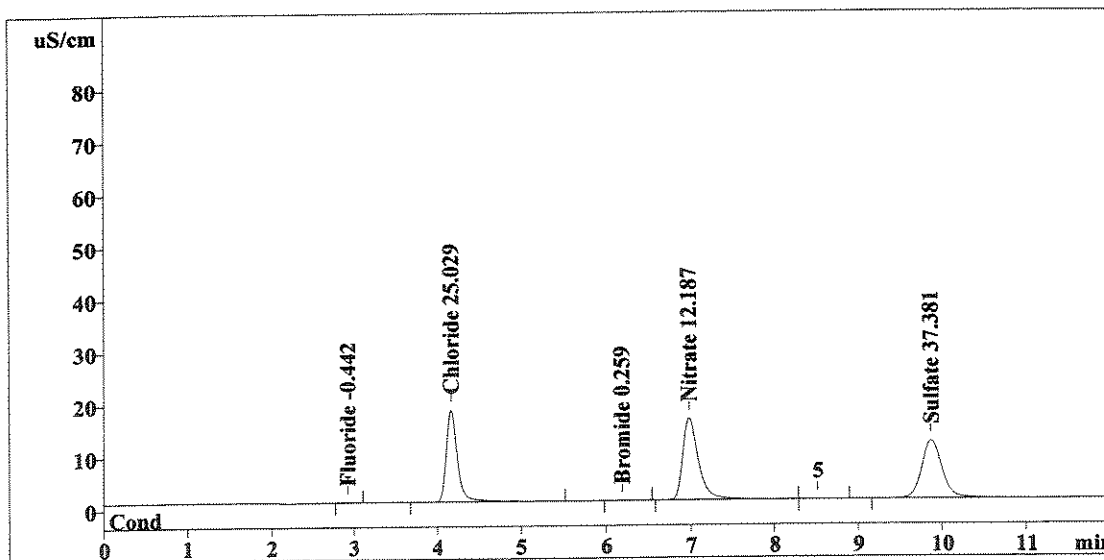
Report date: 6/17/2008 13:59:42
 Printed by: User
 Ident: 1739 LCR SPK
 Analysis from: 6/17/2008 13:47:44
 File: S6171347.CHW

1105187 SPK

Last save: 6/17/2008 13:59:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37082
 SAMPLE: CNS
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.652	-0.442	Fluoride
2	4.16	162.195	25.029	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.19	0.053	0.259	Bromide
5	6.98	199.970	12.187	Nitrate
6	9.88	186.477	37.381	Sulfate
<hr/>				
6	12.00	549.347	75.298	

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*Not spiked.
 Required Q.C. Repeat spike.
 6/18/08*

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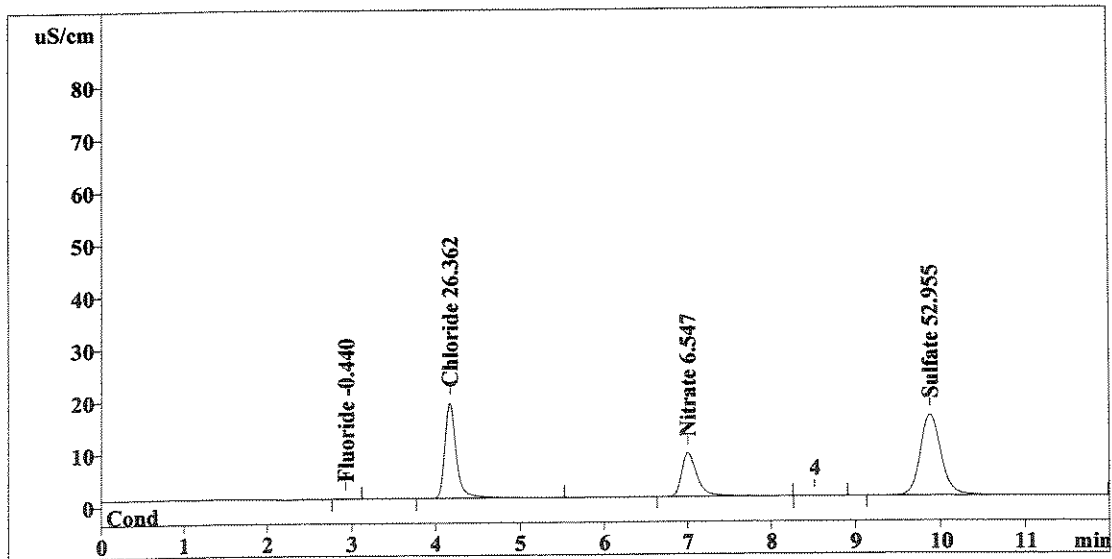
Method 300.0/9056

Report date: 6/17/2008 14:13:48
 Printed by: User
 Ident: 1701 LCR 1105188
 Analysis from: 6/17/2008 14:01:50
 File: S6171401.CHW

Last save: 6/17/2008 14:13:48

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37083
 SAMPLE: CNS
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.671	-0.440	Fluoride
2	4.17	170.913	26.362	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.00	106.169	6.547	Nitrate
6	9.88	263.722	52.955	Sulfate
<hr/>				
6	12.00	541.476	86.305	

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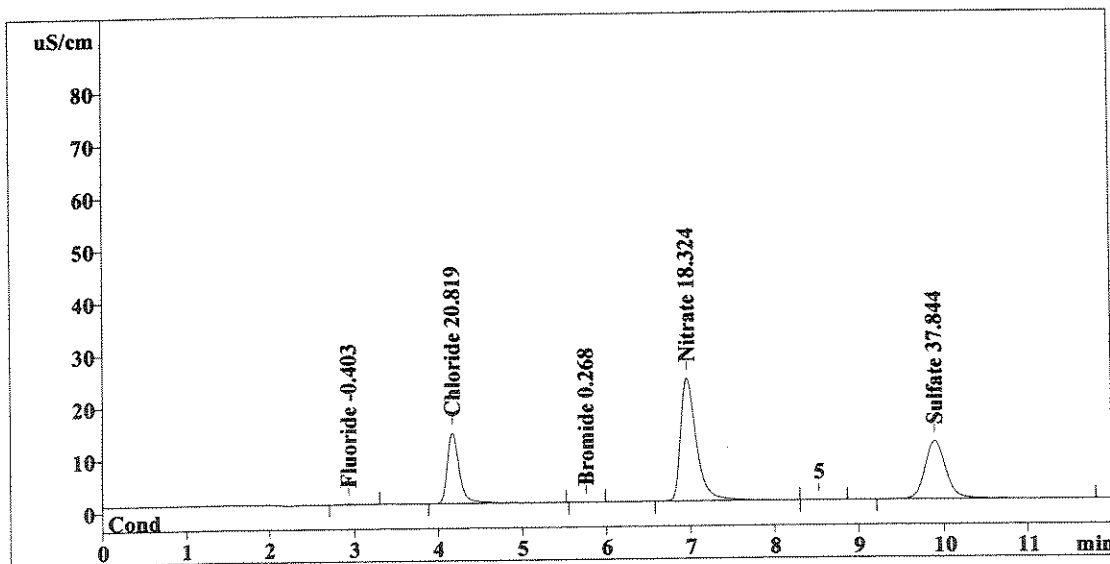
Method 300.0/9056

Report date: 6/17/2008 14:27:54
 Printed by: User
 Ident: 186 LPR 1105189
 Analysis from: 6/17/2008 14:15:56
 File: S6171415.CHW

Last save: 6/17/2008 14:27:54

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37084
 SAMPLE: CNS
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	1.081	-0.403	Fluoride
2	4.17	134.652	20.819	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.75	0.078	0.268	Bromide
5	6.96	302.035	18.324	Nitrate
6	9.89	188.772	37.844	Sulfate
<hr/>				
6	12.00	626.618	77.656	

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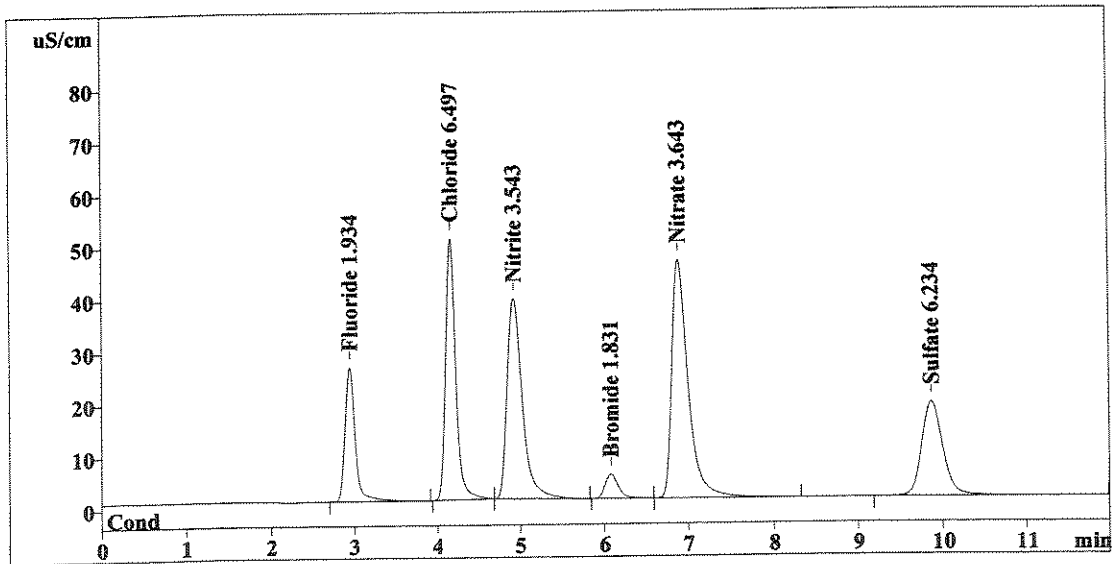
Method 300.0/9056

Report date: 6/17/2008 14:42:00
 Printed by: User
 Ident: CCV
 Analysis from: 6/17/2008 14:30:01
 File: S6171430.CHW

Last save: 6/17/2008 14:42:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37085
 SAMPLE:
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	216.076	1.934	Fluoride
2	4.16	423.466	6.497	Chloride
3	4.92	482.051	3.543	Nitrite
4	6.08	51.078	1.831	Bromide
5	6.89	603.259	3.643	Nitrate
6	9.87	310.270	6.234	Sulfate
<hr/>				
6	12.00	2086.201	23.682	

OK
↓
CV 6/18/08

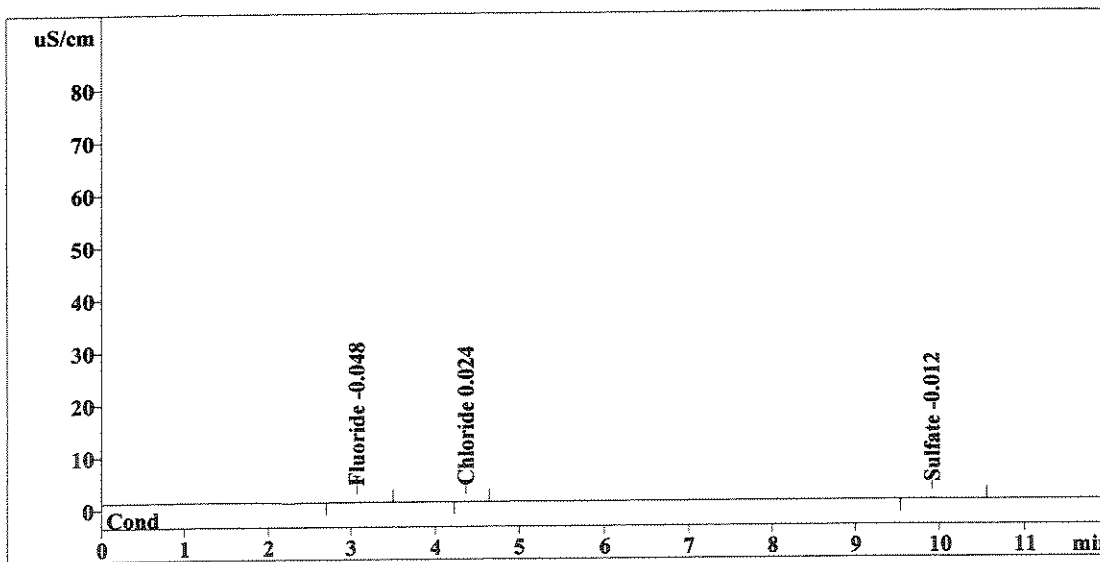
This report has been created by IC Net
 METROHM LTD

Report date: 6/17/2008 14:56:05
 Printed by: User
 Ident: CCB
 Analysis from: 6/17/2008 14:44:07
 File: S6171444.CHW

Last save: 6/17/2008 14:56:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37086
 SAMPLE:
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.06	0.217	-0.048	Fluoride
2	4.36	0.067	0.024	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	9.92	0.492	-0.012	Sulfate
6	12.00	0.777	0.084	

OK
 ↓
6/18/08

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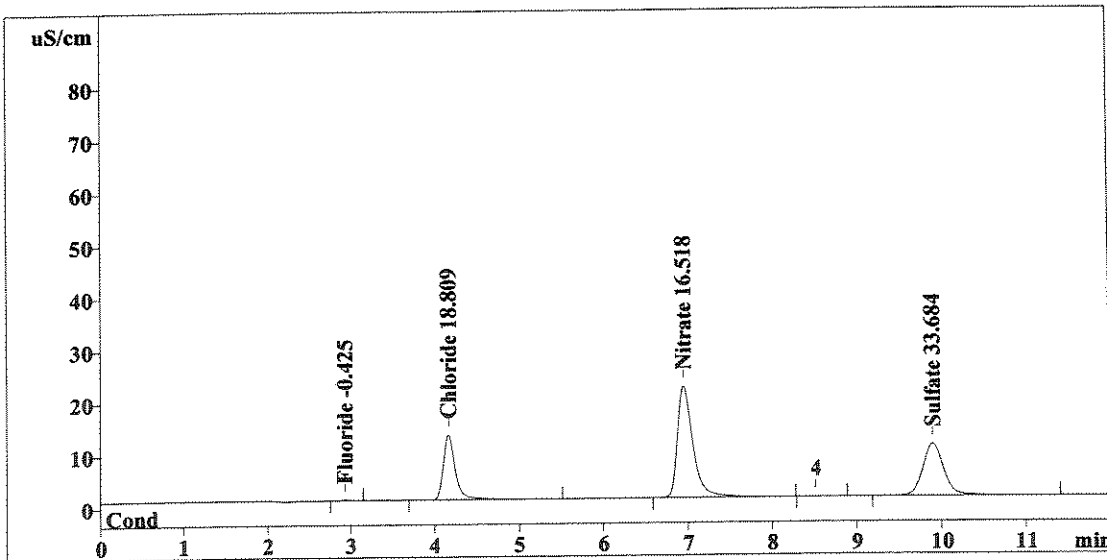
Method 300.0/9056

Report date: 6/17/2008 15:10:11
 Printed by: User
 Ident: 186 LPR DUP 1105990
 Analysis from: 6/17/2008 14:58:13
 File: S6171458.CHW

Last save: 6/17/2008 15:10:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37087
 SAMPLE: CNS
 Vial number: 20
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.834	-0.425	Fluoride
2	4.16	121.507	18.809	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.95	272.008	16.518	Nitrate
6	9.90	168.140	33.684	Sulfate
<hr/>				
6	12.00	562.488	69.436	

Handwritten signature and date: 6/18/08

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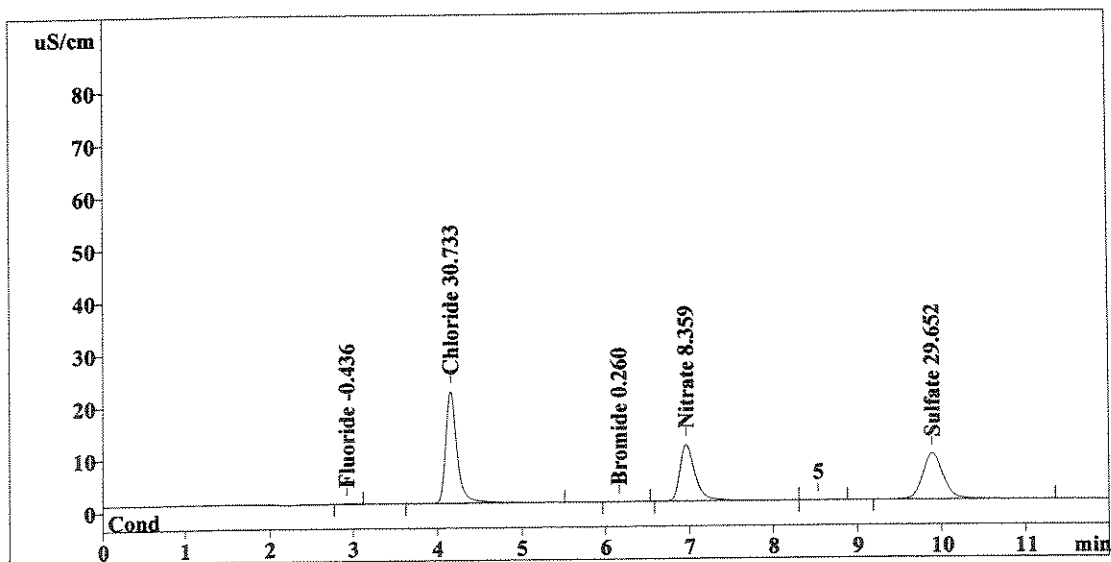
Method 300.0/9056

Report date: 6/17/2008 15:24:17
 Printed by: User
 Ident: 206 LPR 1105191
 Analysis from: 6/17/2008 15:12:18
 File: S6171512.CHW

Last save: 6/17/2008 15:24:17

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37088
 SAMPLE: CNS
 Vial number: 21
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.713	-0.436	Fluoride
2	4.15	199.502	30.733	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.17	0.056	0.260	Bromide
5	6.96	136.306	8.359	Nitrate
6	9.89	148.143	29.652	Sulfate
<hr/>				
6	12.00	484.721	69.441	

OK
OK
OK
W 6/17/08

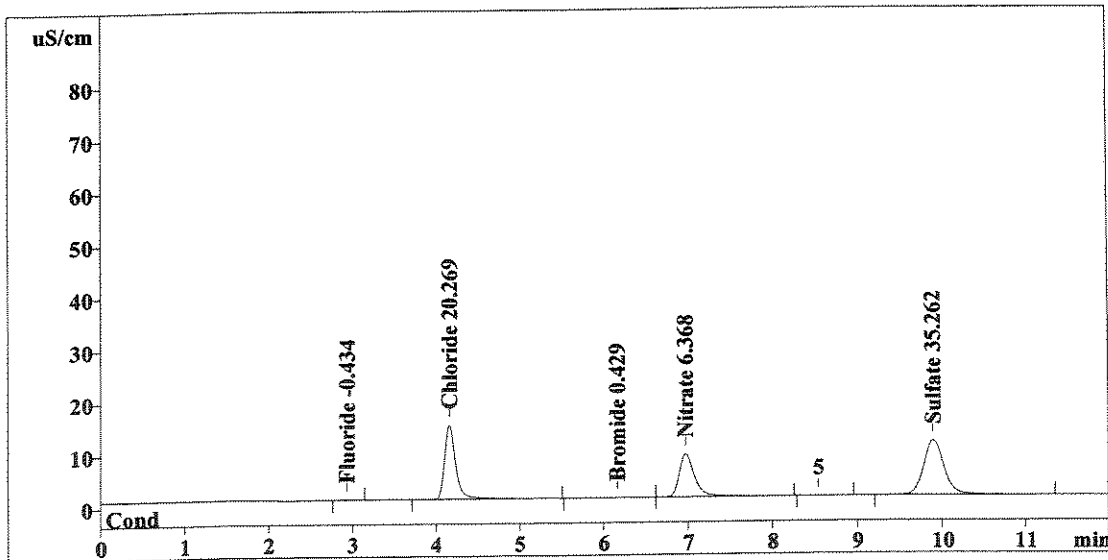
This report has been created by IC Net
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Report date: 6/17/2008 15:38:22
 Printed by: User
 Ident: 230 LPR 1105192
 Analysis from: 6/17/2008 15:26:24
 File: S6171526.CHW

Last save: 6/17/2008 15:38:23

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37089
 SAMPLE: CNS
 Vial number: 22
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.739	-0.434	Fluoride
2	4.16	131.055	20.269	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.17	0.533	0.429	Bromide
5	6.97	103.186	6.368	Nitrate
6	9.90	175.965	35.262	Sulfate
6	12.00	411.479	62.761	

Handwritten signature and date: 6/18/08

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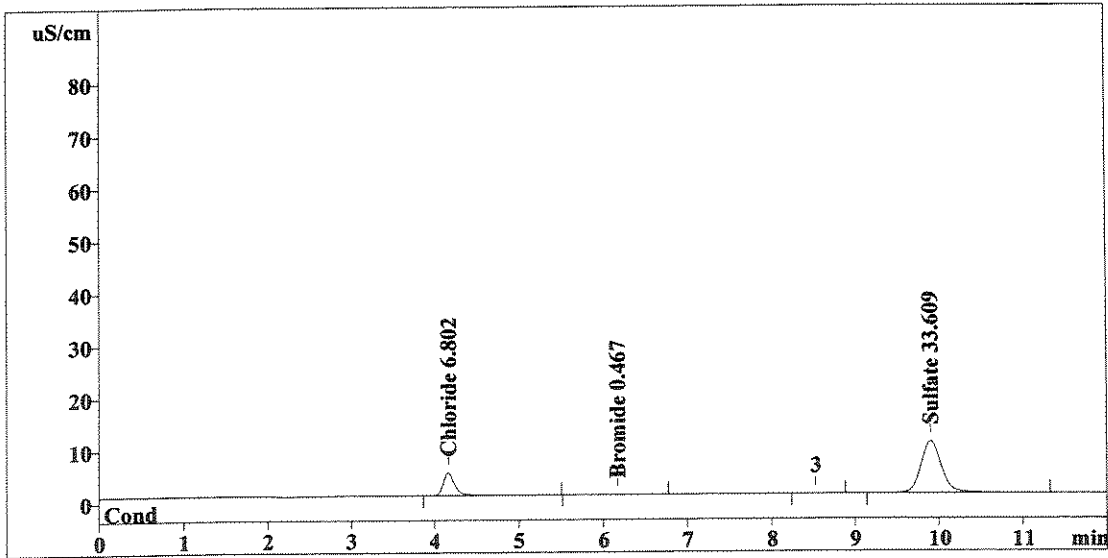
Method 300.0/9056

Report date: 6/17/2008 15:52:28
 Printed by: User
 Ident: SH-35
 Analysis from: 6/17/2008 15:40:30
 File: S6171540.CHW

Last save: 6/17/2008 15:52:29

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37090
 SAMPLE: CNS
 Vial number: 23
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.16	42.973	6.802	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.17	0.643	0.467	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.90	167.767	33.609	Sulfate
6	12.00	211.383	40.879	

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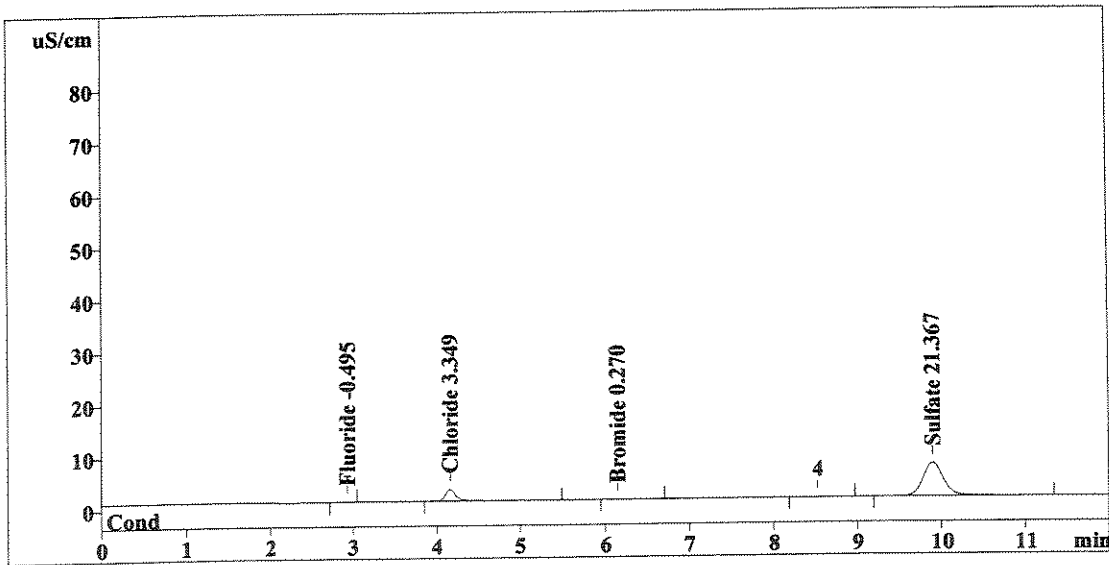
Method 300.0/9056

Report date: 6/17/2008 16:06:34
 Printed by: User
 Ident: SH-29LT 1106789
 Analysis from: 6/17/2008 15:54:36
 File: S6171554.CHW

Last save: 6/17/2008 16:06:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37091
 SAMPLE: CNS
 Vial number: 24
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.072	-0.495	Fluoride
2	4.16	20.384	3.349	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.15	0.085	0.270	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.90	107.051	21.367	Sulfate
<hr/>				
6	12.00	127.592	25.482	

Handwritten notes: 'OK' next to Chloride, Bromide, and Sulfate rows. A signature and date '6/17/08' are written below the Sulfate row.

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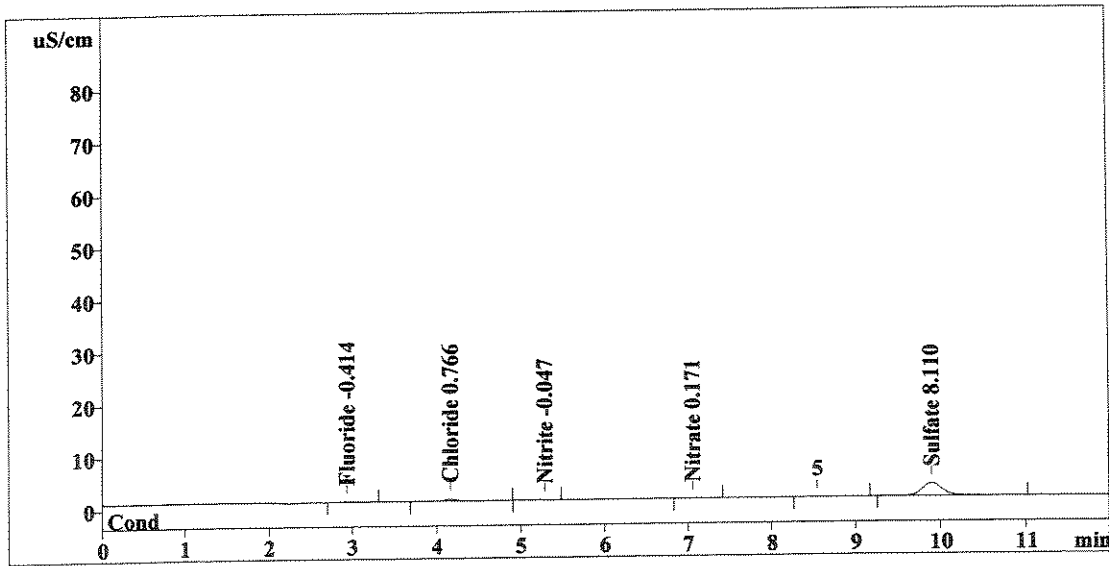
Method 300.0/9056

Report date: 6/17/2008 16:20:40
 Printed by: User
 Ident: SH-27LT 1106785
 Analysis from: 6/17/2008 16:08:42
 File: S6171608.CHW

Last save: 6/17/2008 16:20:41

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37092
 SAMPLE: CNS
 Vial number: 25
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.962	-0.414	Fluoride
2	4.16	3.488	0.766	Chloride
3	5.29	0.090	-0.047	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.05	0.108	0.171	Nitrate
6	9.90	41.296	8.110	Sulfate
6	12.00	45.944	9.507	

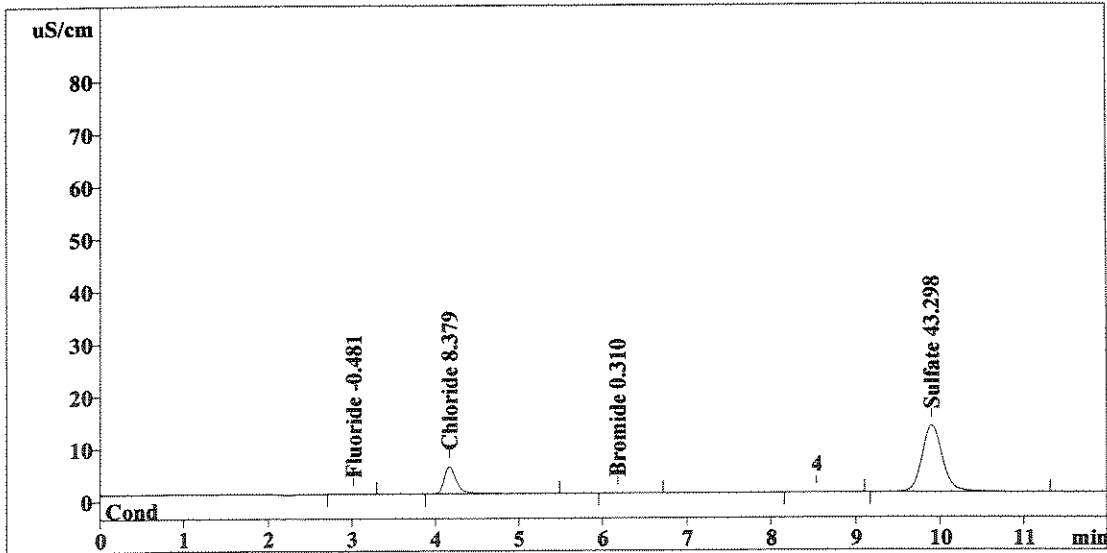
This report has been created by IC Net
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Report date: 6/17/2008 16:34:46
 Printed by: User
 Ident: SH-DUPLICATE 1106829
 Analysis from: 6/17/2008 16:22:48
 File: S6171622.CHW

Last save: 6/17/2008 16:34:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37093
 SAMPLE: CNS
 Vial number: 26
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.02	0.232	-0.481	Fluoride
2	4.17	53.286	8.379	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.18	0.198	0.310	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.90	215.827	43.298	Sulfate
<hr/>				
6	12.00	269.542	52.468	

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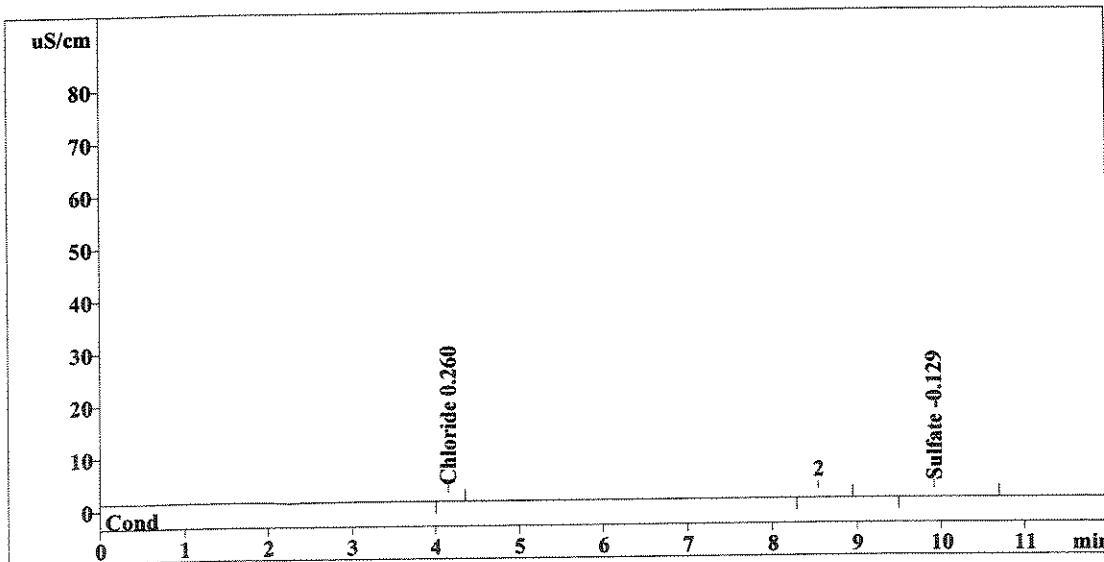
Method 300.0/9056

Report date: 6/17/2008 16:48:52
 Printed by: User
 Ident: PB061608B 1109708
 Analysis from: 6/17/2008 16:36:53
 File: S6171636.CHW

Last save: 6/17/2008 16:48:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37094
 SAMPLE: CNNS
 Vial number: 27
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.15	0.176	0.260	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	9.92	0.432	-0.129	Sulfate
<hr/>				
6	12.00	0.608	0.388	

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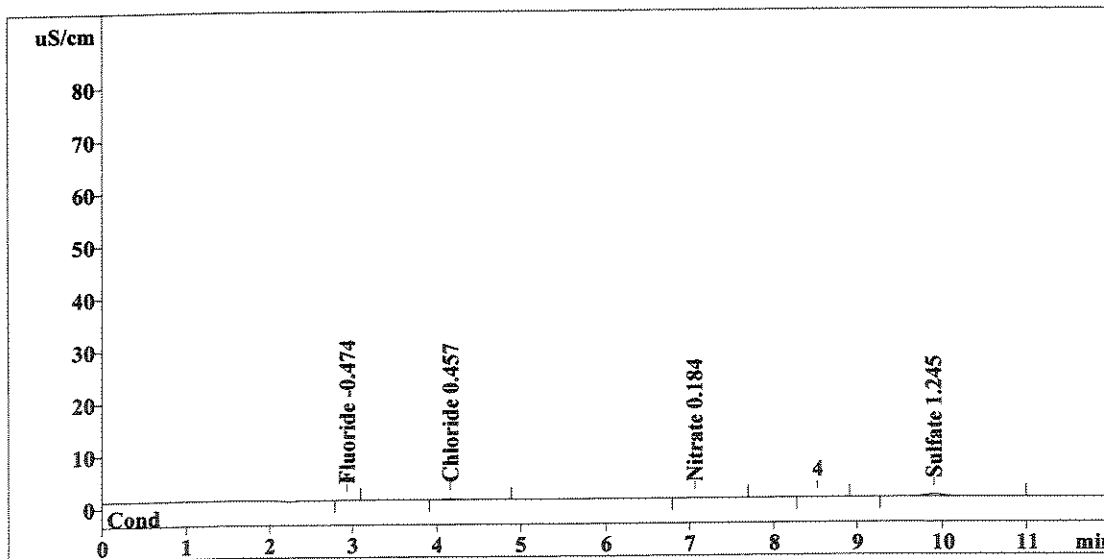
Method 300.0/9056

Report date: 6/17/2008 17:02:57
 Printed by: User
 Ident: MW-14D 1076280
 Analysis from: 6/17/2008 16:50:59
 File: S6171650.CHW

Last save: 6/17/2008 17:02:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37095
 SAMPLE: CNS
 Vial number: 28
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.305	-0.474	Fluoride
2	4.16	1.468	0.457	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.06	0.323	0.184	Nitrate
6	9.91	7.244	1.245	Sulfate
6	12.00	9.341	2.359	

OK
OK
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 6/17/08

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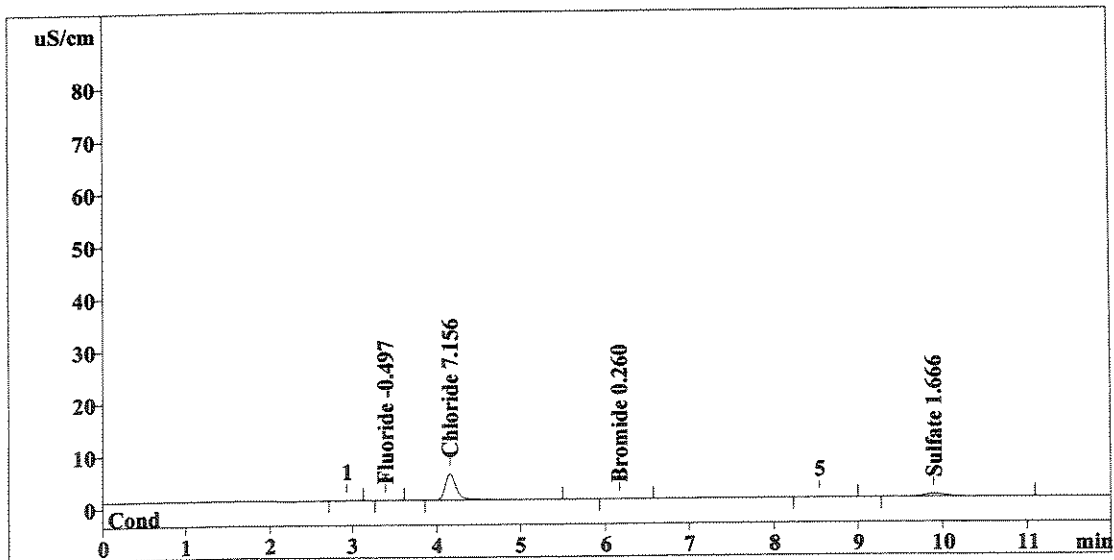
Method 300.0/9056

Report date: 6/17/2008 17:17:03
 Printed by: User
 Ident: SW-2 1076282
 Analysis from: 6/17/2008 17:05:05
 File: S6171705.CHW

Last save: 6/17/2008 17:17:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37096
 SAMPLE: CNS
 Vial number: 29
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.40	0.051	-0.497	Fluoride
2	4.16	45.286	7.156	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.16	0.056	0.260	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.90	9.333	1.666	Sulfate
6	12.00	54.726	9.579	

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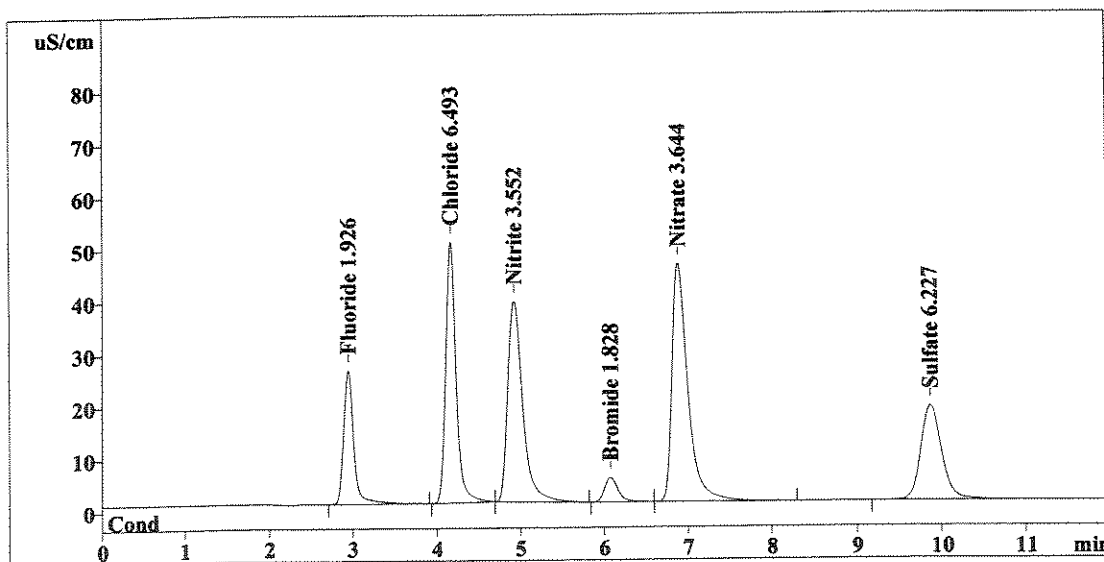
Method 300.0/9056

Report date: 6/17/2008 17:31:09
 Printed by: User
 Ident: CCV
 Analysis from: 6/17/2008 17:19:11
 File: S6171719.CHW

Last save: 6/17/2008 17:31:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37097
 SAMPLE:
 Vial number: 30
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	215.155	1.926	Fluoride
2	4.16	423.196	6.493	Chloride
3	4.92	483.307	3.552	Nitrite
4	6.08	50.991	1.828	Bromide
5	6.88	603.325	3.644	Nitrate
6	9.87	309.928	6.227	Sulfate
6		12.00	2085.903	23.669

Handwritten signature and date:
 [Signature]
 6/18/08

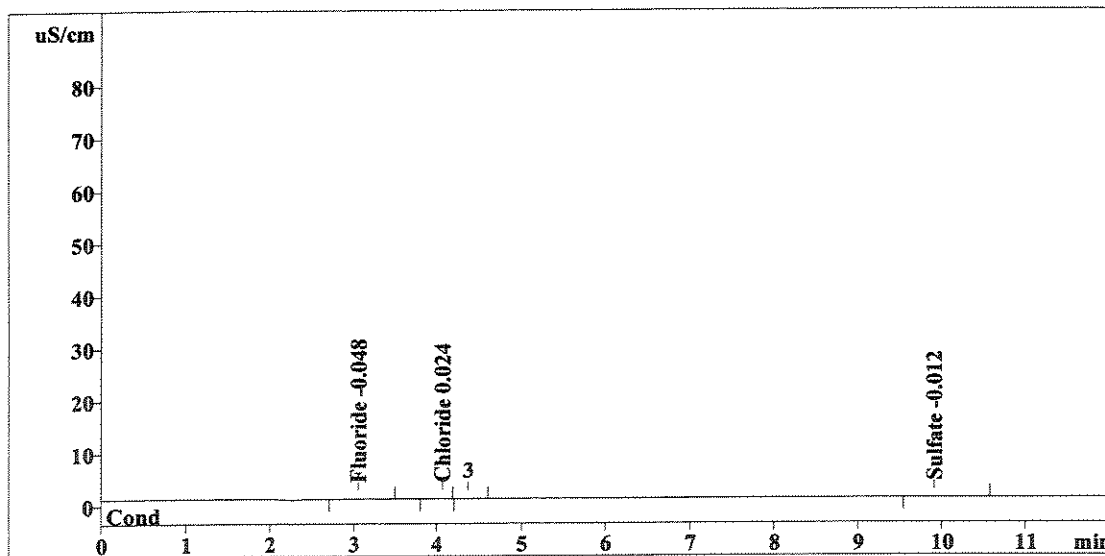
This report has been created by IC Net
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Report date: 6/17/2008 17:45:14
 Printed by: User
 Ident: CCB
 Analysis from: 6/17/2008 17:33:16
 File: S6171733.CHW

Last save: 6/17/2008 17:45:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37098
 SAMPLE:
 Vial number: 31
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.05	0.239	-0.048	Fluoride
2	4.08	0.060	0.024	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	9.92	0.477	-0.012	Sulfate
6	12.00	0.777	0.084	

OK
 ↓
[Signature]
 6/18/08

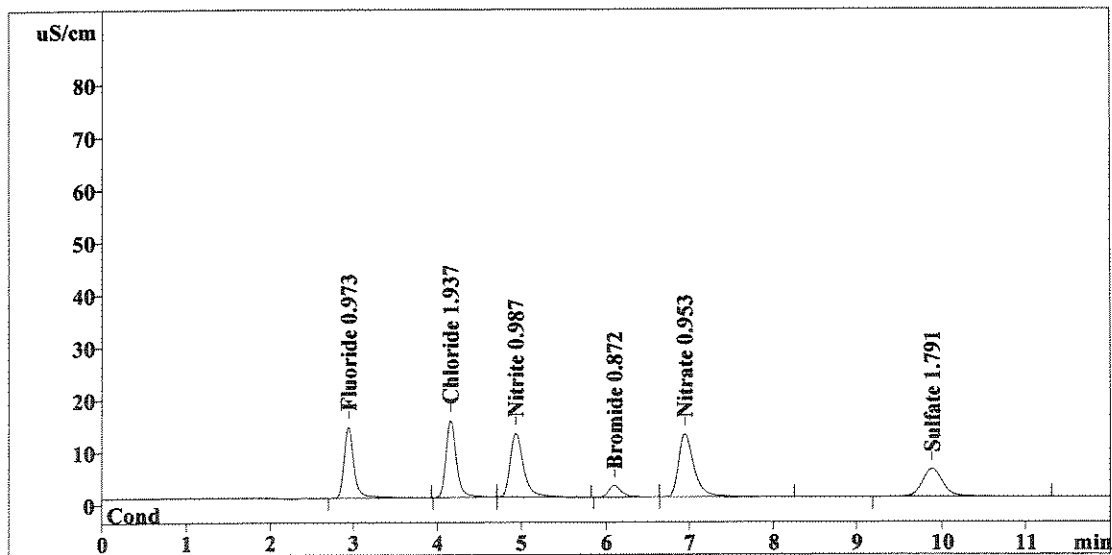
This report has been created by IC Net
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Report date: 6/17/2008 17:59:21
 Printed by: User
 Ident: LCS
 Analysis from: 6/17/2008 17:47:22
 File: S6171747.CHW

Last save: 6/17/2008 17:59:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37099
 SAMPLE:
 Vial number: 32
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	111.445	0.973	Fluoride
2	4.16	125.208	1.937	Chloride
3	4.93	134.852	0.987	Nitrite
4	6.10	23.987	0.872	Bromide
5	6.95	155.780	0.953	Nitrate
6	9.89	89.906	1.791	Sulfate
6	12.00	641.179	7.514	

Handwritten notes:
 - Next to peak 1: OK
 - Next to peak 2: ↓
 - Next to peak 3: OK
 - Next to peak 4: OUT LOW
 - Next to peak 5: OK
 - Next to peak 6: ↓
 - At the bottom: [Signature] 6/17/08

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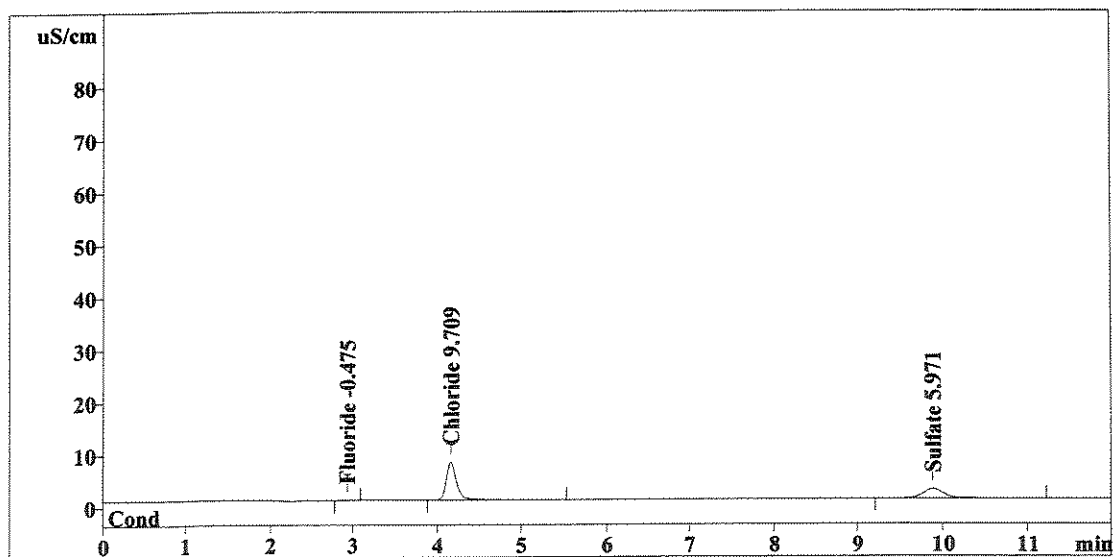
Method 300.0/9056

Report date: 6/17/2008 18:13:32
 Printed by: User
 Ident: 1108905 R-44491
 Analysis from: 6/17/2008 18:01:34
 File: S6171801.CHW

Last save: 6/17/2008 18:13:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37100
 SAMPLE: CS
 Vial number: 33
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.289	-0.475	Fluoride
2	4.16	61.985	9.709	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	9.89	30.685	5.971	Sulfate
6	12.00	92.959	16.155	

Handwritten notes: 'α' next to Chloride and Sulfate rows, and a signature 'CWT 6/18/08' over the final row.

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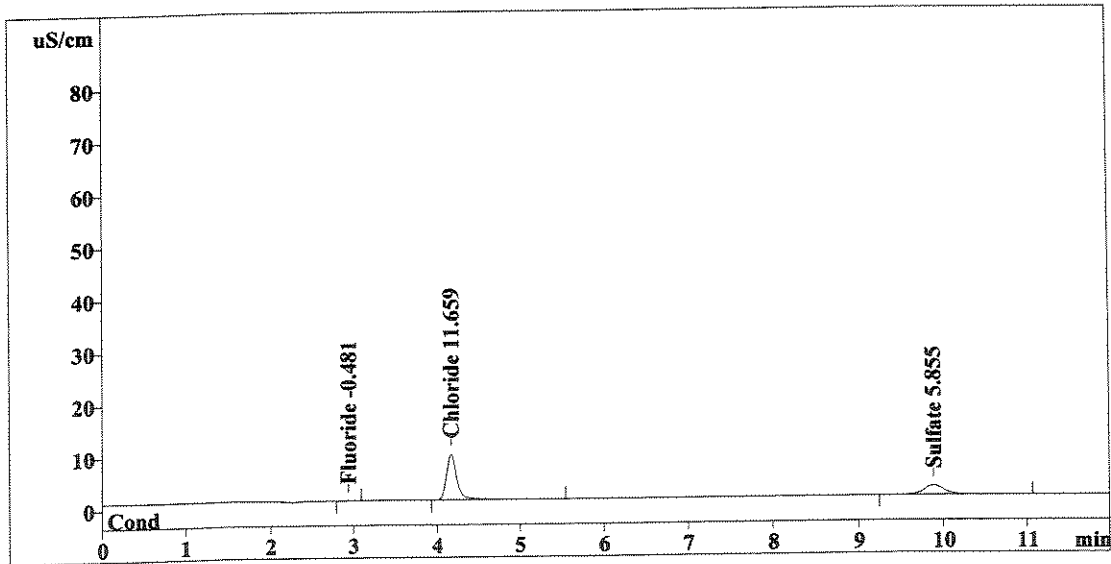
Method 300.0/9056

Report date: 6/17/2008 18:27:38
 Printed by: User
 Ident: 1108906
 Analysis from: 6/17/2008 18:15:40
 File: S6171815.CHW

Last save: 6/17/2008 18:27:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37101
 SAMPLE: CS
 Vial number: 34
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.228	-0.481	Fluoride
2	4.16	74.742	11.659	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	9.89	30.111	5.855	Sulfate
<hr/>				
6	12.00	105.081	17.996	

Handwritten signature/initials

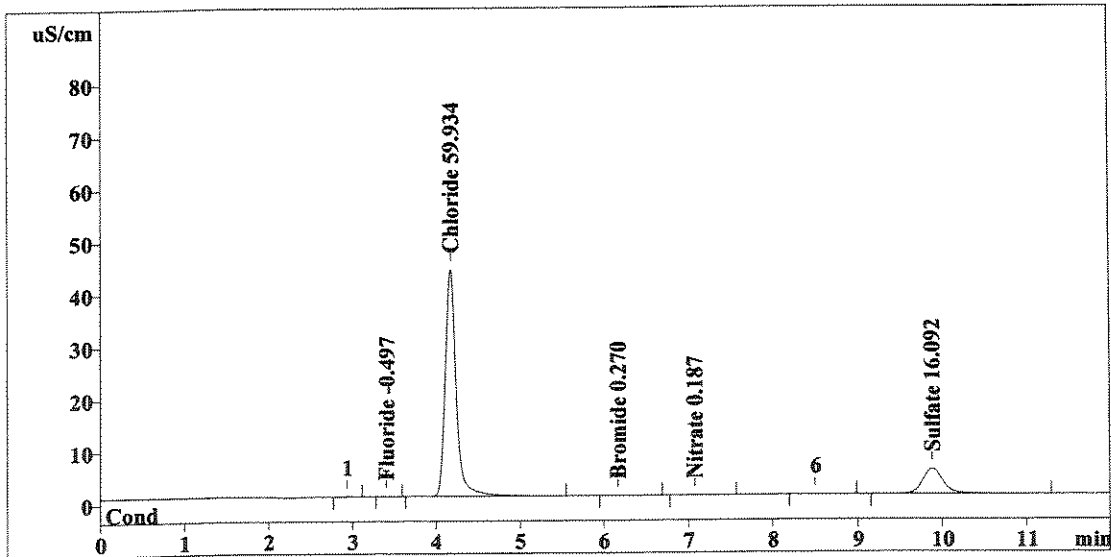
This report has been created by IC Net
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Report date: 6/17/2008 18:41:44
 Printed by: User
 Ident: 1108907
 Analysis from: 6/17/2008 18:29:46
 File: S6171829.CHW

Last save: 6/17/2008 18:41:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37102
 SAMPLE: CS
 Vial number: 35
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.40	0.056	-0.497	Fluoride
2	4.16	390.503	59.934	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.17	0.086	0.270	Bromide
5	7.08	0.373	0.187	Nitrate
6	9.89	80.886	16.092	Sulfate
6	12.00	471.905	76.980	

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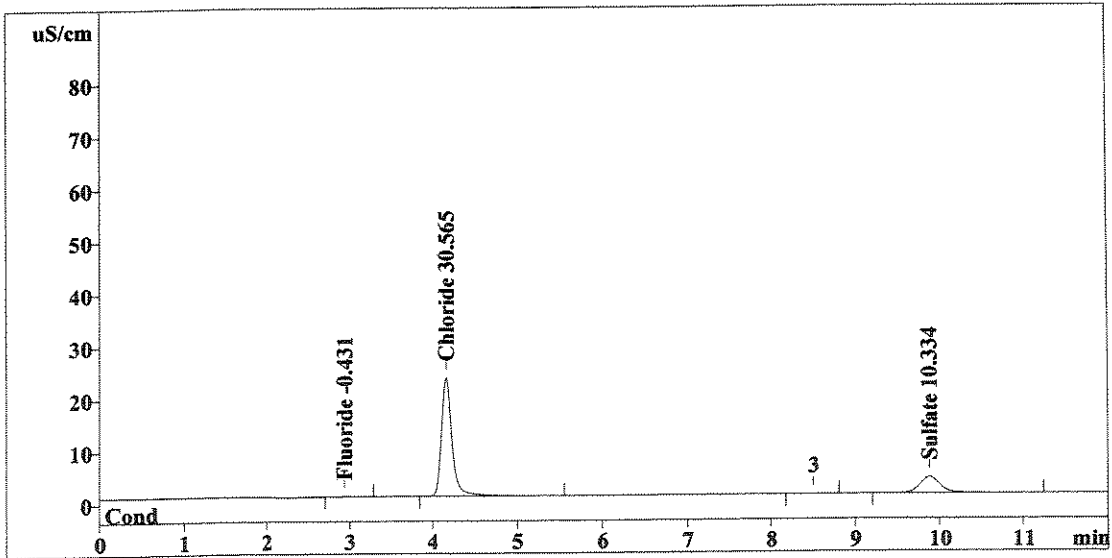
Method 300.0/9056

Report date: 6/17/2008 18:55:50
 Printed by: User
 Ident: 1108909
 Analysis from: 6/17/2008 18:43:52
 File: S6171843.CHW

Last save: 6/17/2008 18:55:51

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37103
 SAMPLE: CS
 Vial number: 36
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.770	-0.431	Fluoride
2	4.16	198.401	30.565	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	9.88	52.327	10.334	Sulfate
6	12.00	251.497	41.330	

OK (handwritten next to 198.401)
OK (handwritten next to 52.327)
OK (handwritten next to 251.497)
 6/18/08 (handwritten signature and date)

This report has been created by IC Net
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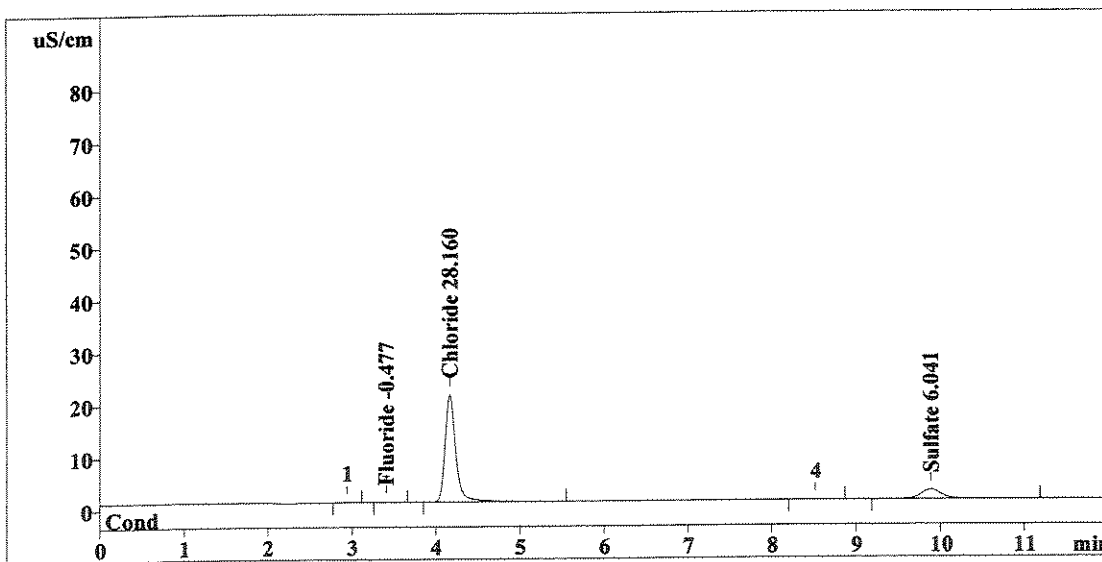
Method 300.0/9056

Report date: 6/17/2008 19:09:56
 Printed by: User
 Ident: 1108910
 Analysis from: 6/17/2008 18:57:58
 File: S6171857.CHW

Last save: 6/17/2008 19:09:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37104
 SAMPLE: CS
 Vial number: 37
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.40	0.276	-0.477	Fluoride
2	4.16	182.674	28.160	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	9.88	31.031	6.041	Sulfate
6	12.00	213.981	34.678	

OK
OK
 6/18/08

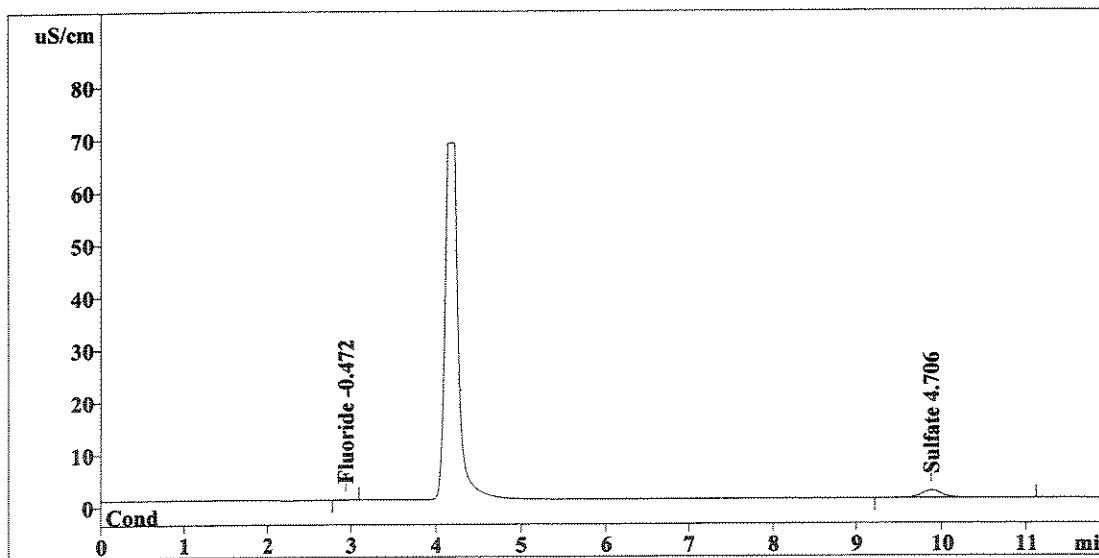
This report has been created by IC Net
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Report date: 6/17/2008 19:24:02
 Printed by: User
 Ident: 1108913
 Analysis from: 6/17/2008 19:12:04
 File: S6171912.CHW

Last save: 6/17/2008 19:24:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37105
 SAMPLE: CS
 Vial number: 38
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.322	-0.472	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	9.88	24.410	4.706	Sulfate
6	12.00	24.731	5.178	

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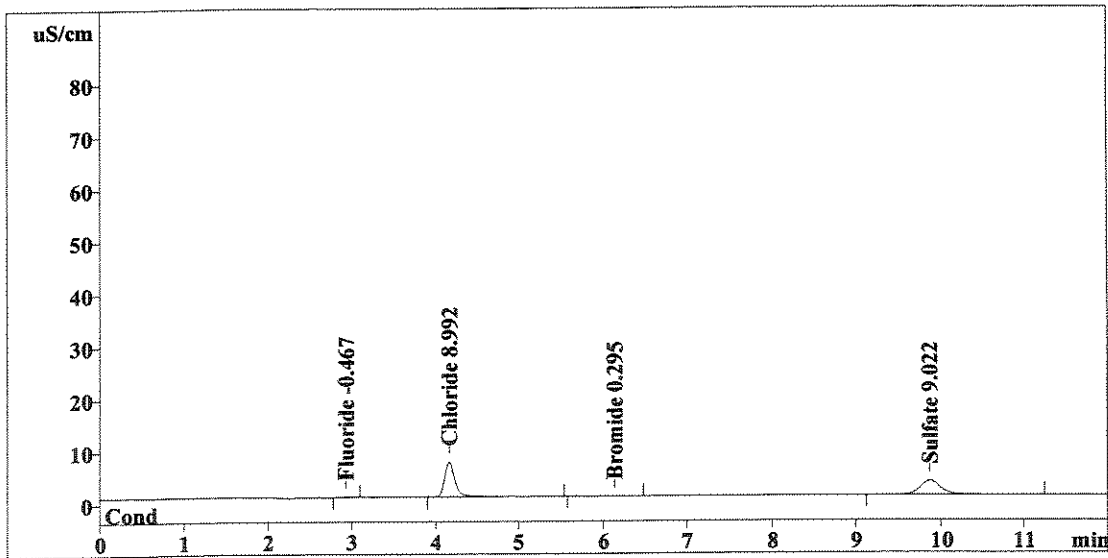
Method 300.0/9056

Report date: 6/17/2008 19:38:08
 Printed by: User
 Ident: 1108915
 Analysis from: 6/17/2008 19:26:09
 File: S6171926.CHW

Last save: 6/17/2008 19:38:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37106
 SAMPLE: CS
 Vial number: 39
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.375	-0.467	Fluoride
2	4.16	57.296	8.992	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.14	0.155	0.295	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.87	45.820	9.022	Sulfate
6	12.00	103.646	18.777	

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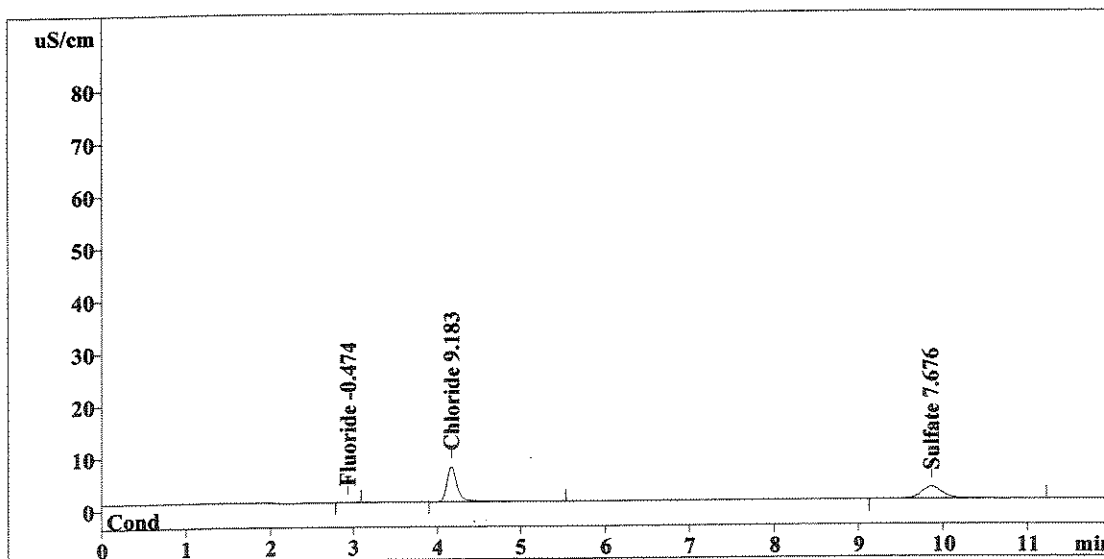
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/17/2008 19:52:14
 Printed by: User
 Ident: 1108917
 Analysis from: 6/17/2008 19:40:15
 File: S6171940.CHW

Method 300.0/9056

Last save: 6/17/2008 19:52:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37107
 SAMPLE: CS
 Vial number: 40
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.308	-0.474	Fluoride
2	4.17	58.546	9.183	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	9.87	39.140	7.676	Sulfate
<hr/>				
6	12.00	97.995	17.333	

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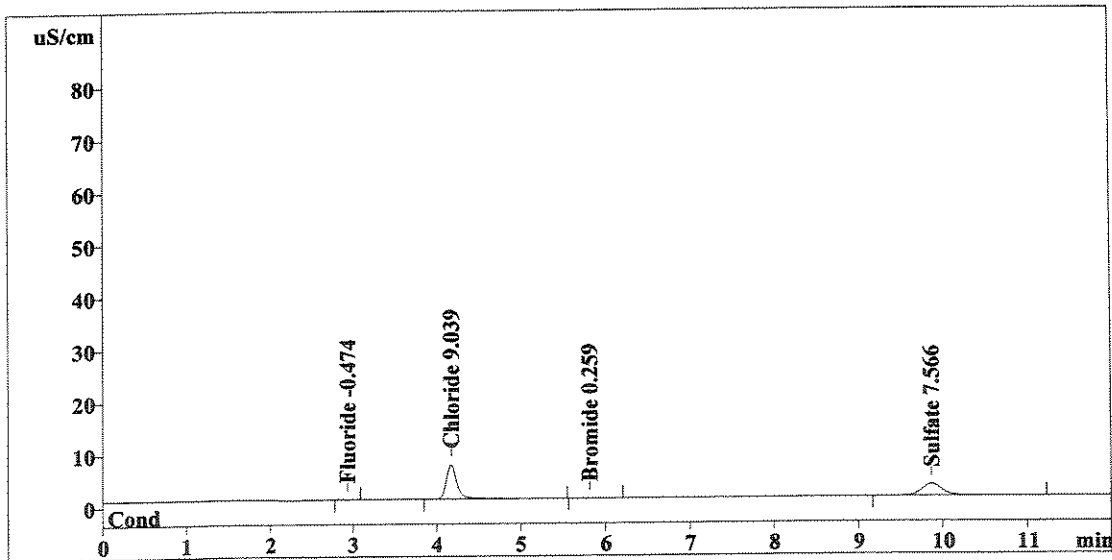
Method 300.0/9056

Report date: 6/17/2008 20:06:19
 Printed by: User
 Ident: 1108917 DUP
 Analysis from: 6/17/2008 19:54:21
 File: S6171954.CHW

Last save: 6/17/2008 20:06:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37108
 SAMPLE: CS
 Vial number: 41
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.307	-0.474	Fluoride
2	4.17	57.602	9.039	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.82	0.053	0.259	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.87	38.597	7.566	Sulfate
<hr/>				
6	12.00	96.559	17.337	

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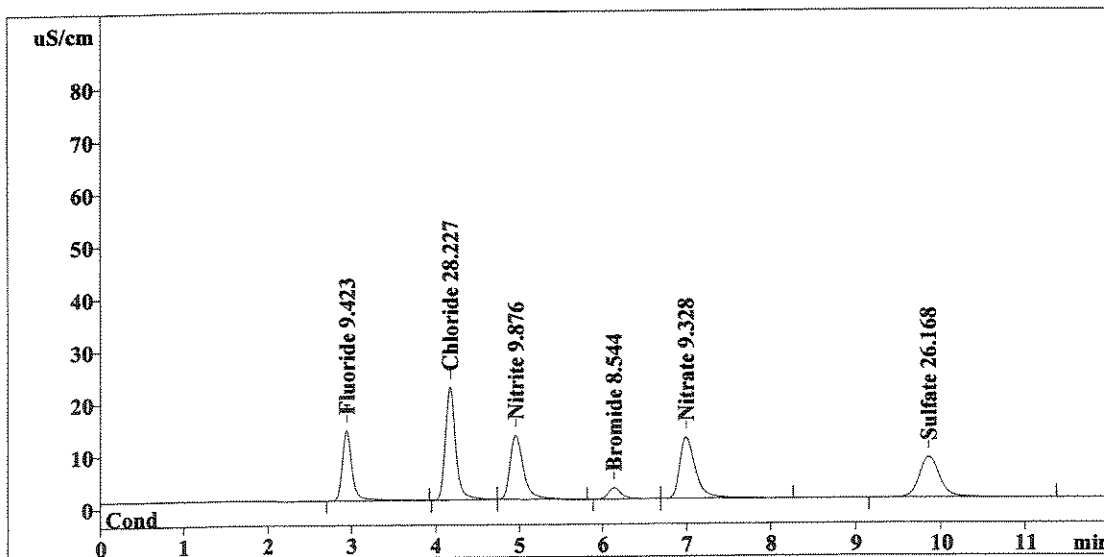
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/17/2008 20:20:25
 Printed by: User
 Ident: 1108917 SPK
 Analysis from: 6/17/2008 20:08:27
 File: S6172008.CHW

Method 300.0/9056

Last save: 6/17/2008 20:20:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37109
 SAMPLE: CS
 Vial number: 42
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	108.065	9.423	Fluoride
2	4.17	183.110	28.227	Chloride
3	4.95	134.906	9.876	Nitrite
4	6.14	23.476	8.544	Bromide
5	6.99	152.412	9.328	Nitrate
6	9.86	130.863	26.168	Sulfate
6	12.00	732.832	91.565	

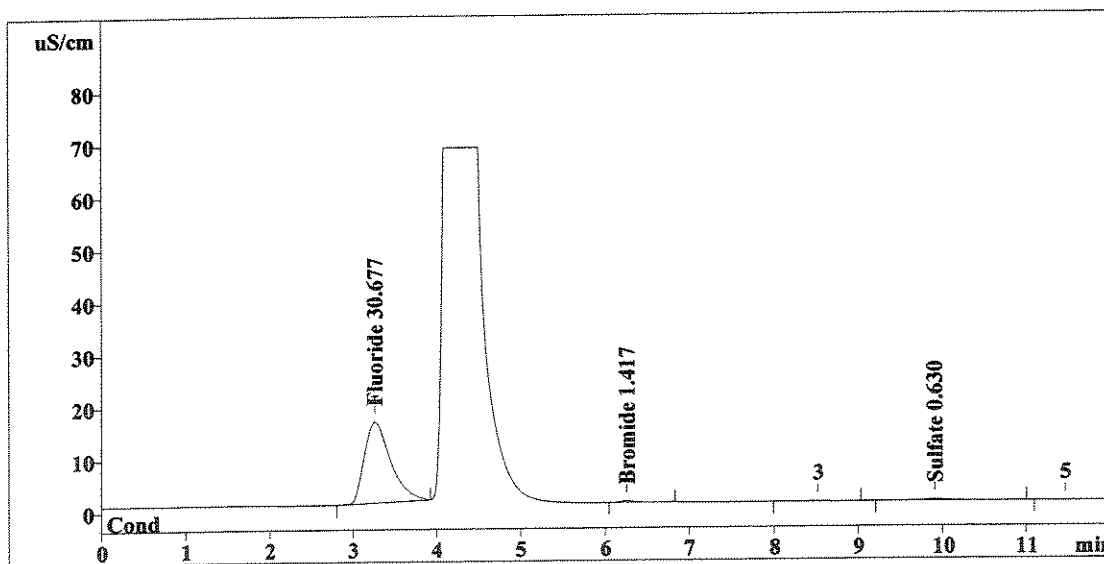
This report has been created by IC Net
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Report date: 6/17/2008 20:34:31
 Printed by: User
 Ident: 1103758 R-44084
 Analysis from: 6/17/2008 20:22:33
 File: S6172022.CHW

Last save: 6/17/2008 20:34:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37110
 SAMPLE: CS
 Vial number: 43
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.26	339.485	30.677	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.26	3.327	1.417	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.91	4.194	0.630	Sulfate
<hr/>				
6	12.00	347.007	32.723	

Handwritten signature and date: 6/10/08

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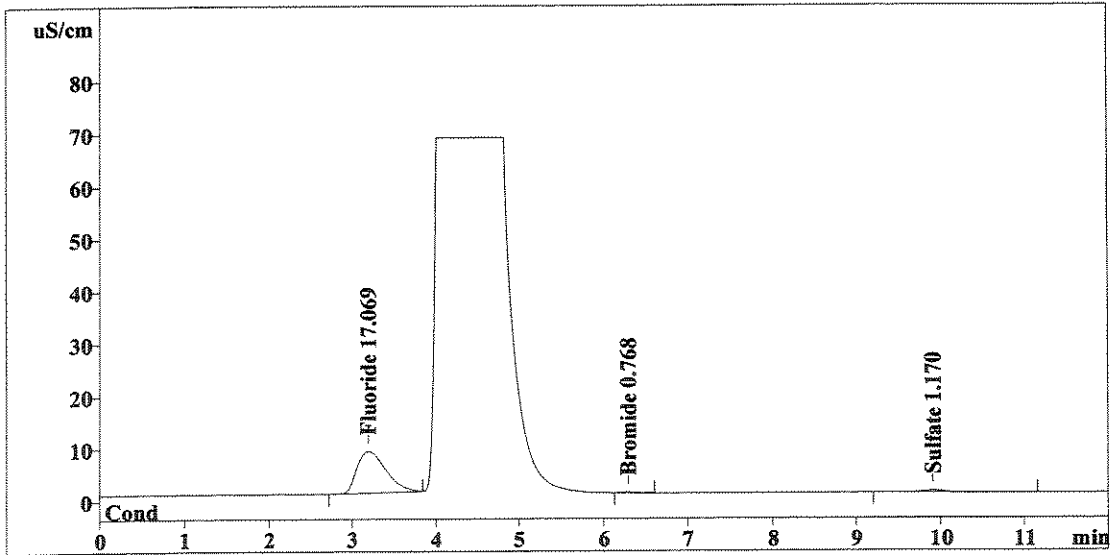
Method 300.0/9056

Report date: 6/17/2008 20:48:37
 Printed by: User
 Ident: 1103760
 Analysis from: 6/17/2008 20:36:39
 File: S6172036.CHW

Last save: 6/17/2008 20:48:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37111
 SAMPLE: CS
 Vial number: 44
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.19	191.324	17.069	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.29	1.493	0.768	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.91	6.873	1.170	Sulfate
<hr/>				
6	12.00	199.690	19.007	

Handwritten notes:
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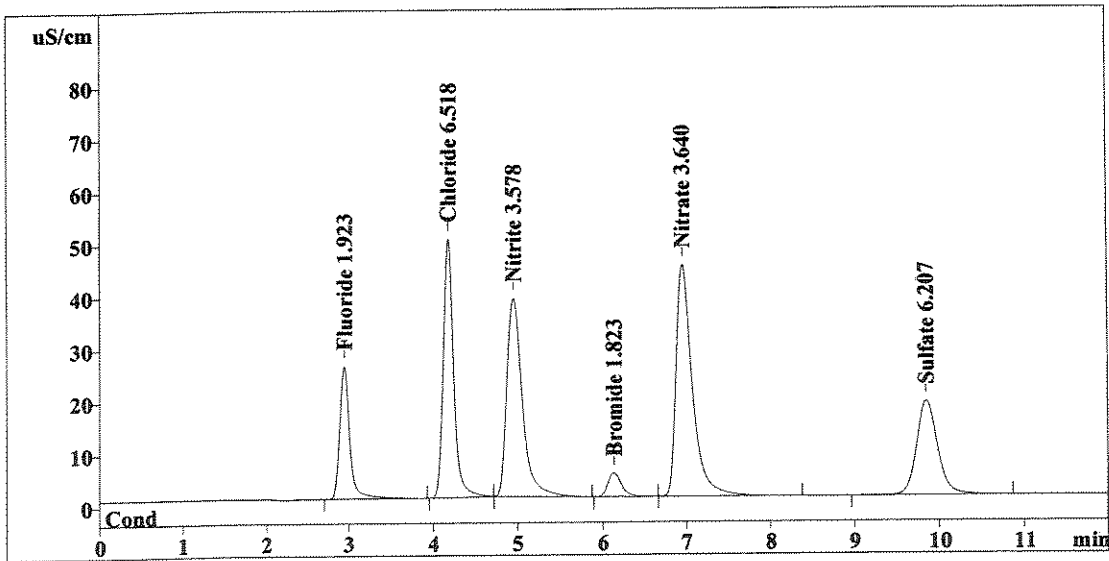
Method 300.0/9056

Report date: 6/17/2008 21:02:43
 Printed by: User
 Ident: CCV
 Analysis from: 6/17/2008 20:50:45
 File: S6172050.CHW

Last save: 6/17/2008 21:02:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37112
 SAMPLE:
 Vial number: 45
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	214.905	1.923	Fluoride
2	4.17	424.838	6.518	Chloride
3	4.94	486.830	3.578	Nitrite
4	6.13	50.853	1.823	Bromide
5	6.95	602.715	3.640	Nitrate
6	9.85	308.940	6.207	Sulfate
<hr/>				
6	12.00	2089.081	23.690	

Handwritten notes:
 A checkmark is next to the first row.
 A vertical arrow points from the second row down to the sixth row.
 A signature and date '6/18/08' are written below the table.

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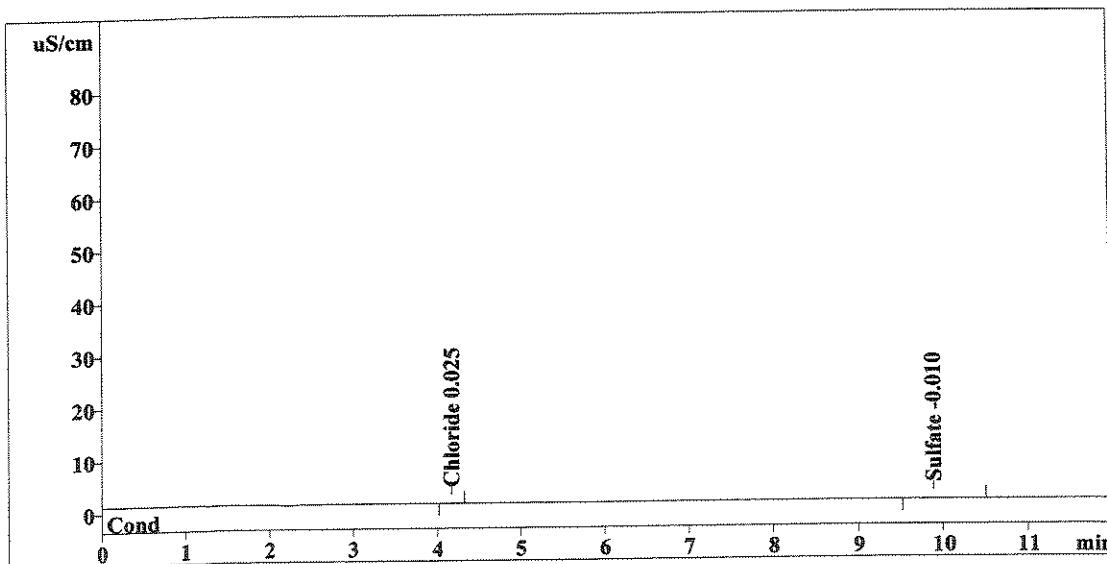
Method 300.0/9056

Report date: 6/17/2008 21:16:49
 Printed by: User
 Ident: CCB
 Analysis from: 6/17/2008 21:04:50
 File: S6172104.CHW

Last save: 6/17/2008 21:16:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37113
 SAMPLE:
 Vial number: 46
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.17	0.091	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	9.89	0.587	-0.010	Sulfate
<hr/>				
6	12.00	0.679	0.034	

OK
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6/17/08

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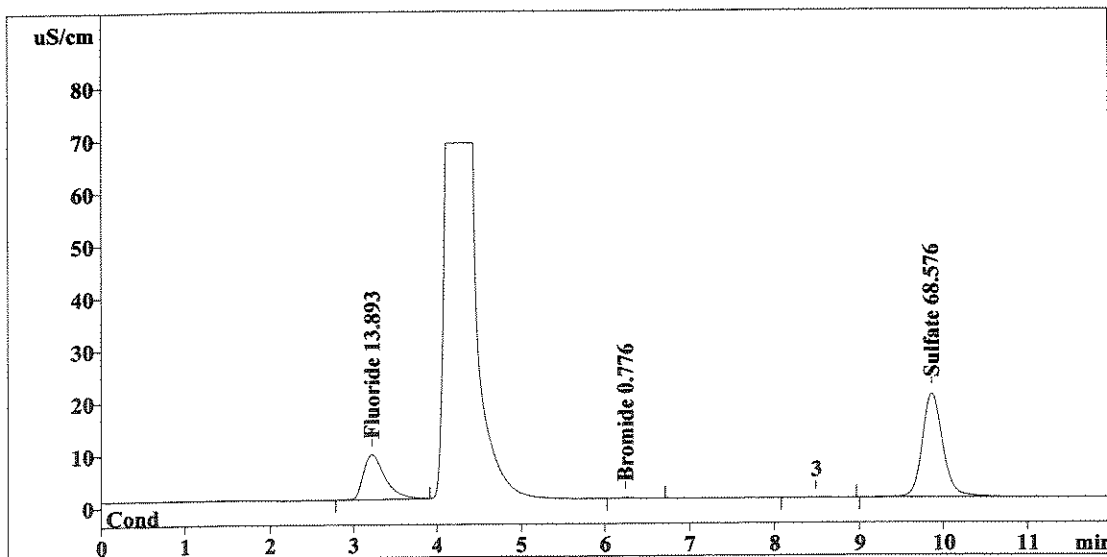
Method 300.0/9056

Report date: 6/17/2008 21:30:55
 Printed by: User
 Ident: 1103761
 Analysis from: 6/17/2008 21:18:56
 File: S6172118.CHW

Last save: 6/17/2008 21:30:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37114
 SAMPLE: CS
 Vial number: 47
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.22	156.742	13.893	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.25	1.515	0.776	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.87	341.202	68.576	Sulfate
<hr/>				
6	12.00	499.459	83.245	

Handwritten notes: 1/1006 next to row 2; OK next to row 6; signature and date 6/18/08 below the table.

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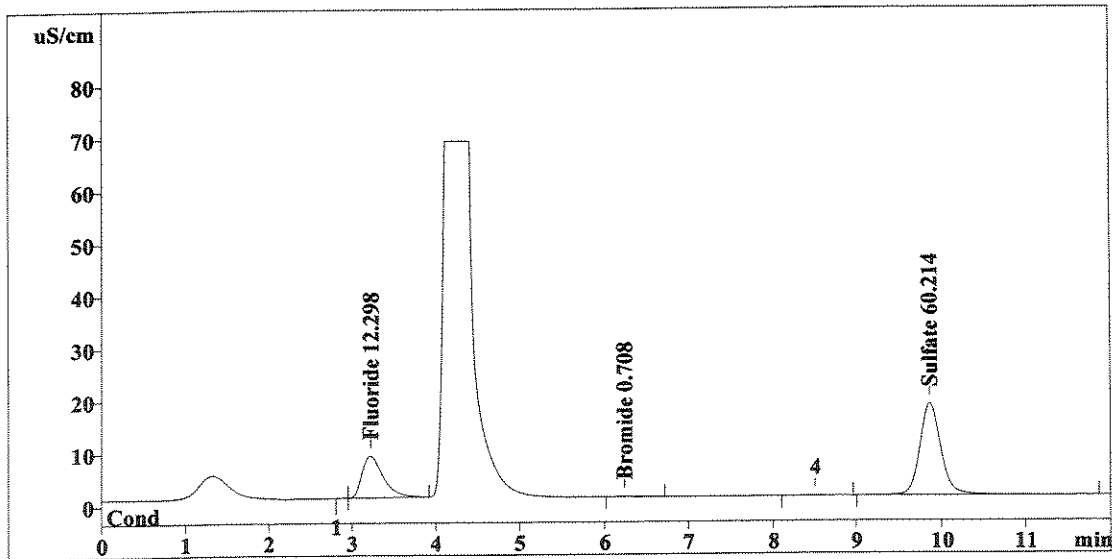
Method 300.0/9056

Report date: 6/17/2008 21:45:00
 Printed by: User
 Ident: 1103761 DUP
 Analysis from: 6/17/2008 21:33:02
 File: S6172133.CHW

Last save: 6/17/2008 21:45:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37115
 SAMPLE: CS
 Vial number: 48
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.21	139.376	12.298	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.24	1.322	0.708	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.86	299.728	60.214	Sulfate
6	12.00	440.426	73.220	

Handwritten signature and date: 6/18/08

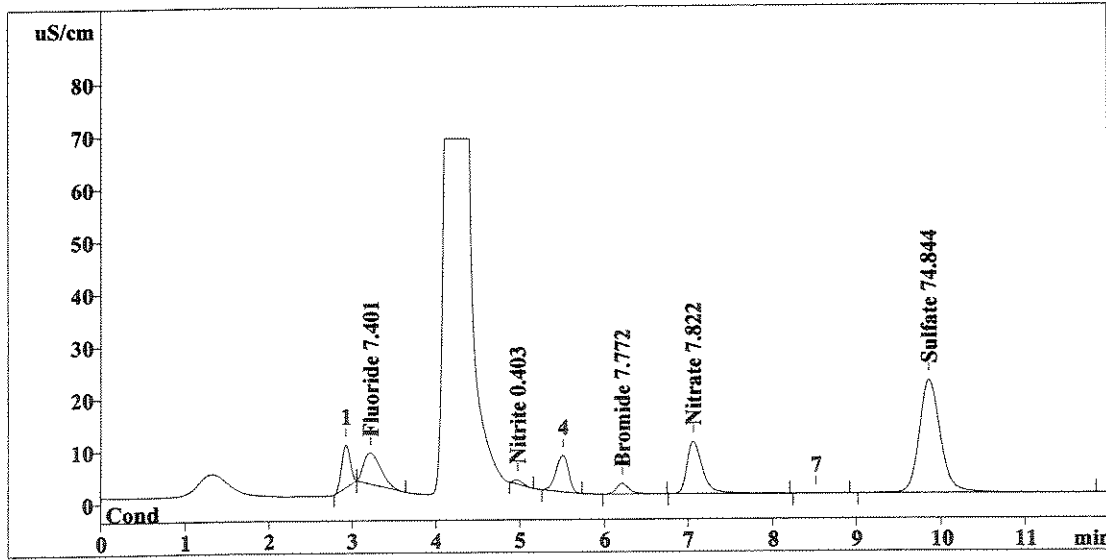
This report has been created by IC Net
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Report date: 6/17/2008 21:59:06
 Printed by: User
 Ident: 1103761 SPK
 Analysis from: 6/17/2008 21:47:08
 File: S6172147.CHW

Last save: 6/17/2008 21:59:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37116
 SAMPLE: CS
 Vial number: 49
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.22	86.052	7.401	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.98	6.204	0.403	Nitrite
4	6.21	21.294	7.772	Bromide
5	7.06	127.375	7.822	Nitrate
6	9.86	372.292	74.844	Sulfate
6	12.00	613.217	98.243	

Handwritten signature and date: 6/18/08

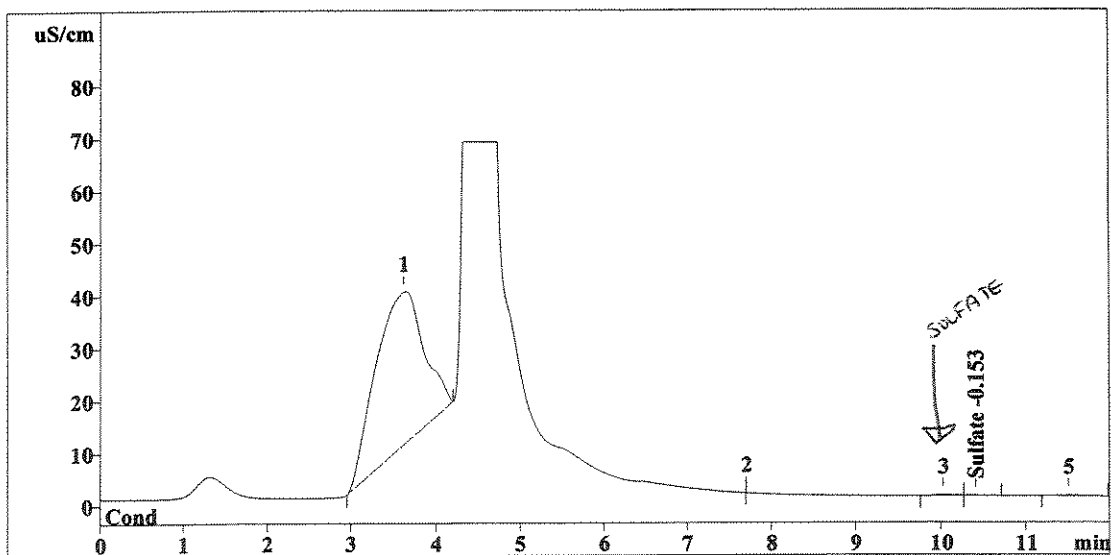
This report has been created by IC Net
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Report date: 6/17/2008 22:13:12
 Printed by: User
 Ident: 1103764
 Analysis from: 6/17/2008 22:01:14
 File: S6172201.CHW

Last save: 6/17/2008 22:13:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37117
 SAMPLE: CS
 Vial number: 50
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



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	10.41	0.309	-0.153	Sulfate
6	12.00	0.309	0.153	

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*Reprocess Sulfate
 Peak.
 6/18/08*

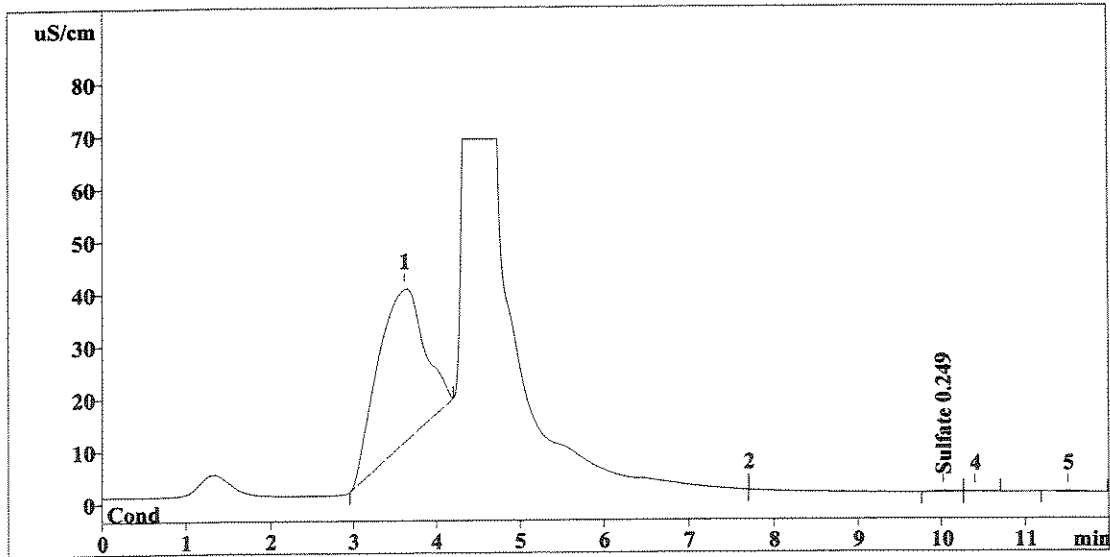
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Method 300.0/9056

Report date: 6/18/2008 10:56:06
 Printed by: User
 Ident: 1103764
 Analysis from: 6/17/2008 22:01:14
 File: s6172201.chw
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37117
 SAMPLE: CS
 Vial number: 50
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 22:13:14

Last save: 6/17/2008 08:08:31



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	10.03	2.306	0.249	Sulfate
6	12.00	2.306	0.249	

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Reprocessed
6/18/08

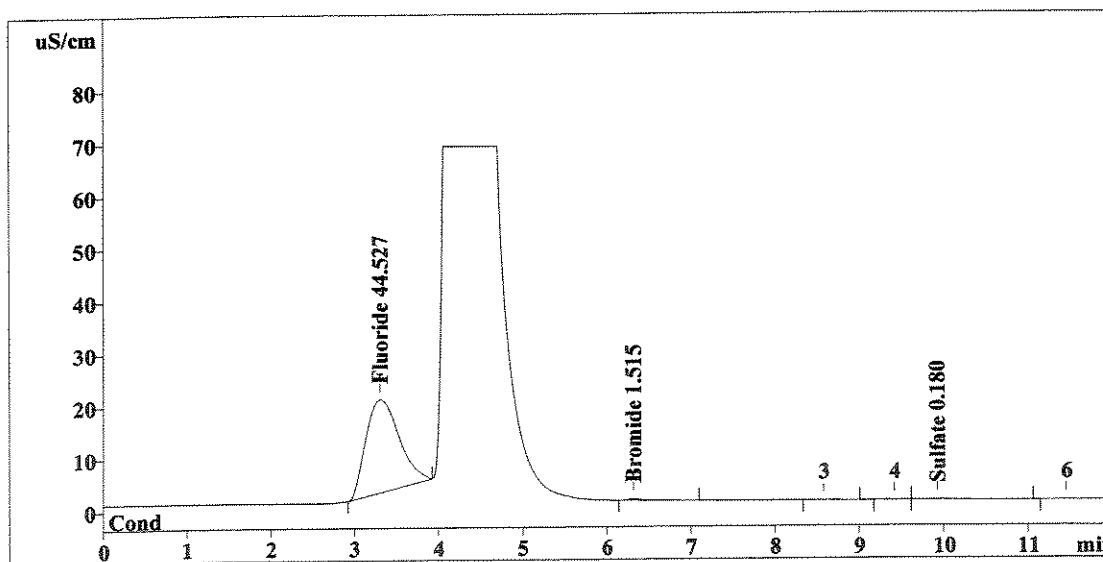
CHW/2008

Report date: 6/17/2008 22:27:18
 Printed by: User
 Ident: 1103757
 Analysis from: 6/17/2008 22:15:20
 File: S6172215.CHW

Last save: 6/17/2008 22:27:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37118
 SAMPLE: CS
 Vial number: 51
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.30	490.291	44.527	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.32	3.604	1.515	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.93	1.964	0.180	Sulfate
6	12.00	495.859	46.222	

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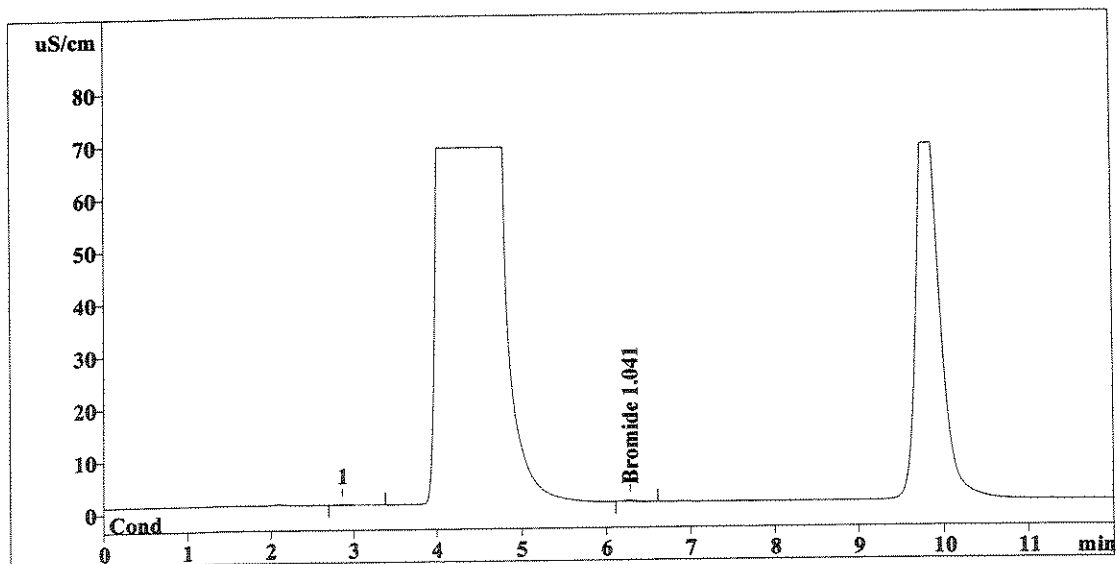
Method 300.0/9056

Report date: 6/17/2008 22:41:24
 Printed by: User
 Ident: 1103759
 Analysis from: 6/17/2008 22:29:26
 File: S6172229.CHW

Last save: 6/17/2008 22:41:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37119
 SAMPLE: CS
 Vial number: 52
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



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	6.28	2.265	1.041	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	2.265	1.041	

Handwritten signature and date: 6/18/08

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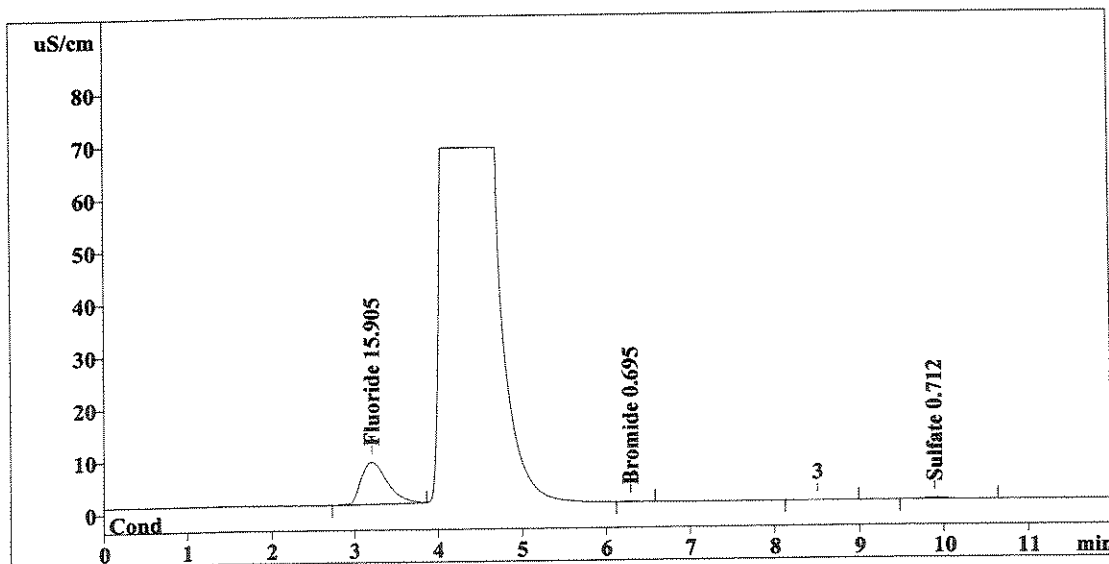
Method 300.0/9056

Report date: 6/17/2008 22:55:30
 Printed by: User
 Ident: 1103762
 Analysis from: 6/17/2008 22:43:32
 File: S6172243.CHW

Last save: 6/17/2008 22:55:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37120
 SAMPLE: CS
 Vial number: 53
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.21	178.641	15.905	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.29	1.286	0.695	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.89	4.602	0.712	Sulfate
6	12.00	184.530	17.312	

Handwritten notes: 1/4000 next to row 2; a signature and date 6/18/08 next to row 6.

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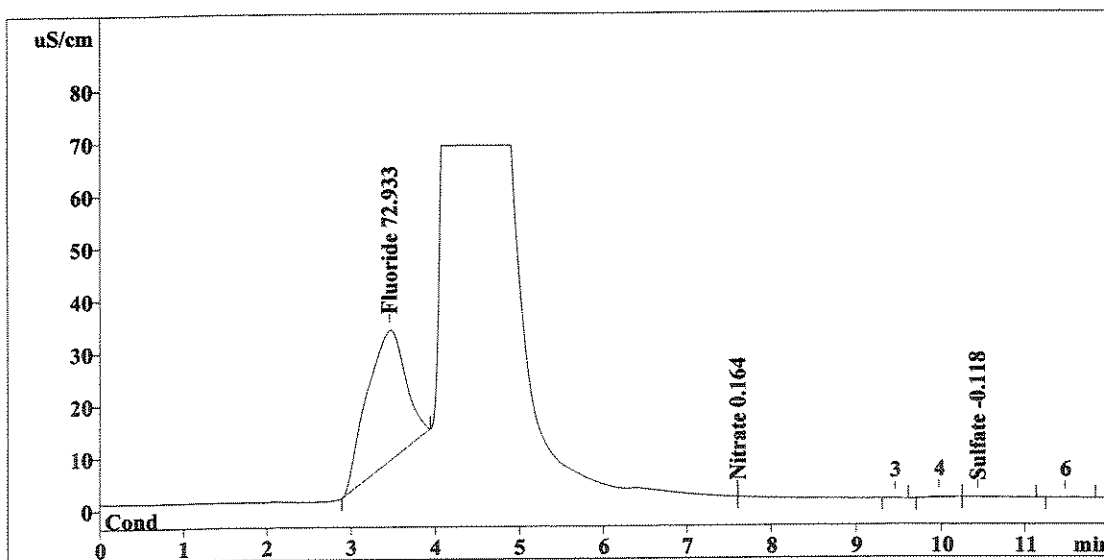
Method 300.0/9056

Report date: 6/17/2008 23:09:36
 Printed by: User
 Ident: 1103763
 Analysis from: 6/17/2008 22:57:38
 File: S6172257.CHW

Last save: 6/17/2008 23:09:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37121
 SAMPLE: CS
 Vial number: 54
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.44	799.590	72.933	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	7.60	-0.000	0.164	Nitrate
6	10.46	0.484	-0.118	Sulfate
<hr/>				
6	12.00	800.074	73.215	

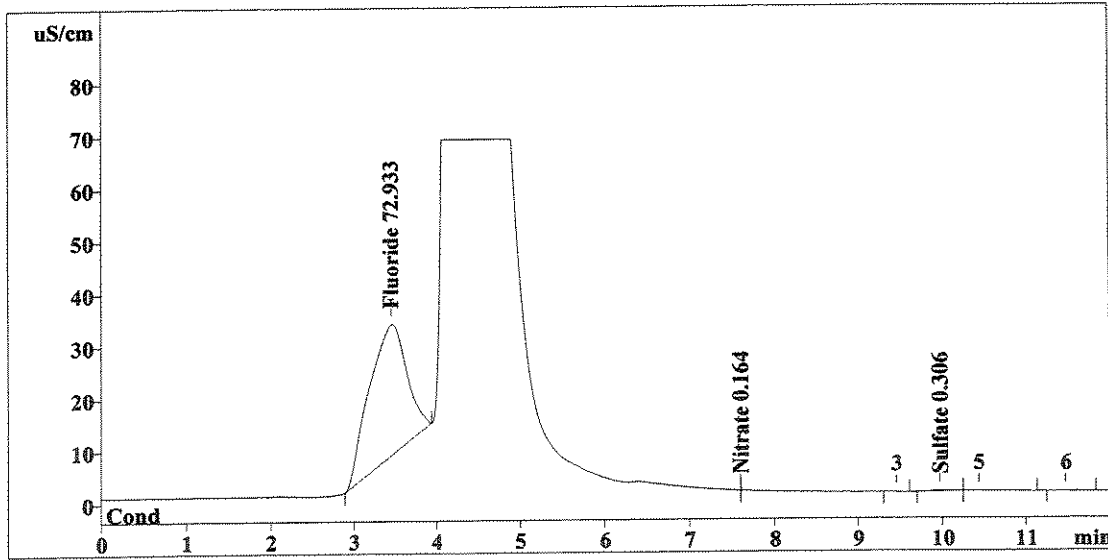
This report has been created by IC Net
 METROHM LTD

*Reprocess Sulfate
 peak.
 6/17/08*

Report date: 6/18/2008 10:59:14
 Printed by: User
 Ident: 1103763
 Analysis from: 6/17/2008 22:57:38
 File: s6172257.chw
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37121
 SAMPLE: CS
 Vial number: 54
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/17/2008 23:09:38

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.44	799.590	72.933	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	7.60	-0.000	0.164	Nitrate
6	9.97	2.590	0.306	Sulfate
6	12.00	802.180	73.403	

Handwritten notes: 1/10000 (next to row 2), OK (next to row 6), and a signature with date 6/18/08 (next to row 6).

This report has been created by IC Net
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Reprocessed.

OK 6/18/08

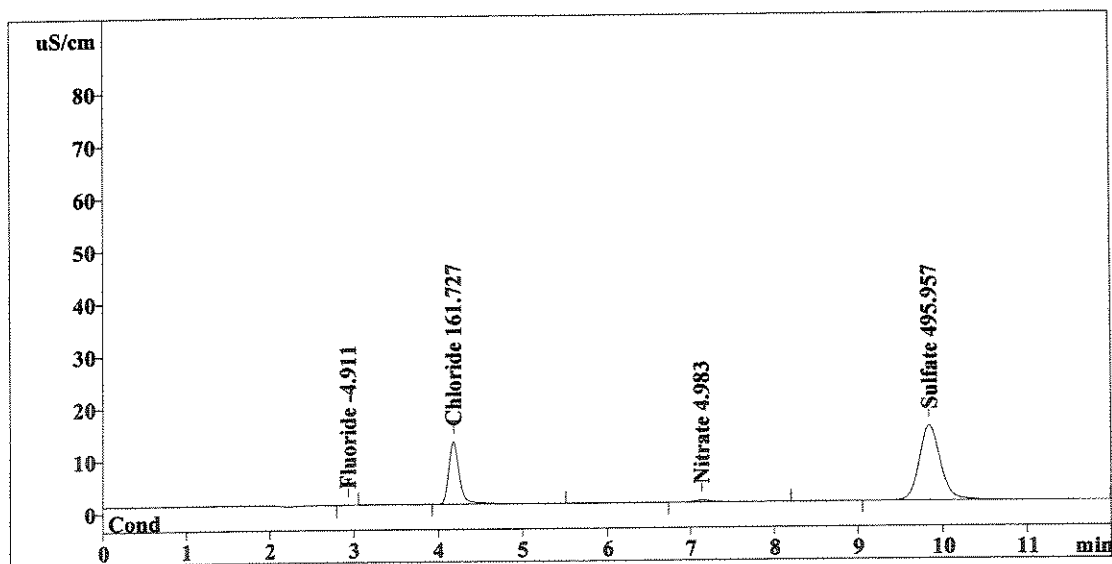
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/17/2008 23:23:42
 Printed by: User
 Ident: 1093572 R-43448
 Analysis from: 6/17/2008 23:11:43
 File: S6172311.CHW

Method 300.0/9056

Last save: 6/17/2008 23:23:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37122
 SAMPLE: CS
 Vial number: 55
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.118	-4.911	Fluoride
2	4.18	104.263	161.727	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.14	5.558	4.983	Nitrate
6	9.84	247.061	495.957	Sulfate
6	12.00	357.001	667.577	

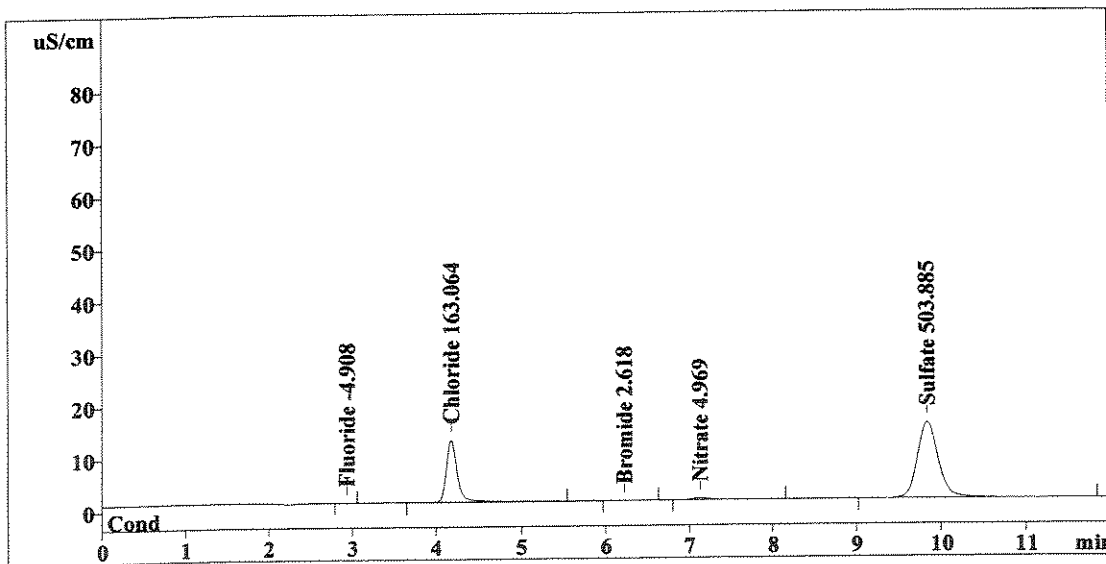
This report has been created by IC Net
METROHM LTD

Report date: 6/17/2008 23:37:47
 Printed by: User
 Ident: 1093572 DUP
 Analysis from: 6/17/2008 23:25:49
 File: S6172325.CHW

Last save: 6/17/2008 23:37:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37123
 SAMPLE: CS
 Vial number: 56
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.122	-4.908	Fluoride
2	4.18	105.138	163.064	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.22	0.062	2.618	Bromide
5	7.13	5.535	4.969	Nitrate
6	9.84	250.993	503.885	Sulfate
6	12.00	361.850	679.443	

Handwritten signature and date: 6/18/08

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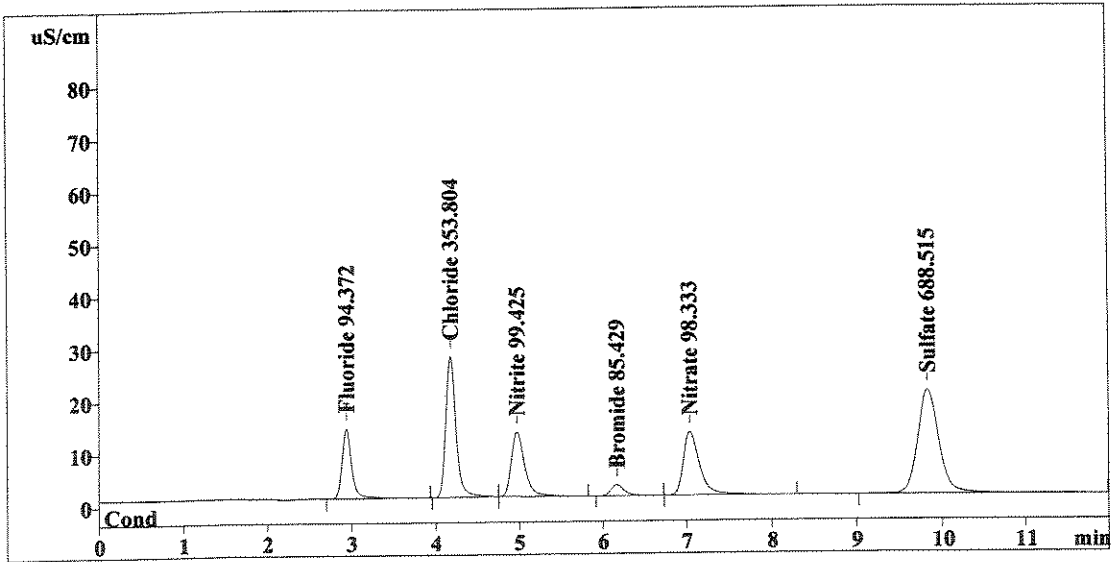
Method 300.0/9056

Report date: 6/17/2008 23:51:53
 Printed by: User
 Ident: 1093572 SPK
 Analysis from: 6/17/2008 23:39:55
 File: S6172339.CHW

Last save: 6/17/2008 23:51:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37124
 SAMPLE: CS
 Vial number: 57
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	108.222	94.372	Fluoride
2	4.17	229.900	353.804	Chloride
3	4.97	135.815	99.425	Nitrite
4	6.17	23.474	85.429	Bromide
5	7.04	160.823	98.333	Nitrate
6	9.83	342.568	688.515	Sulfate
<hr/>				
6	12.00	1000.802	1419.878	

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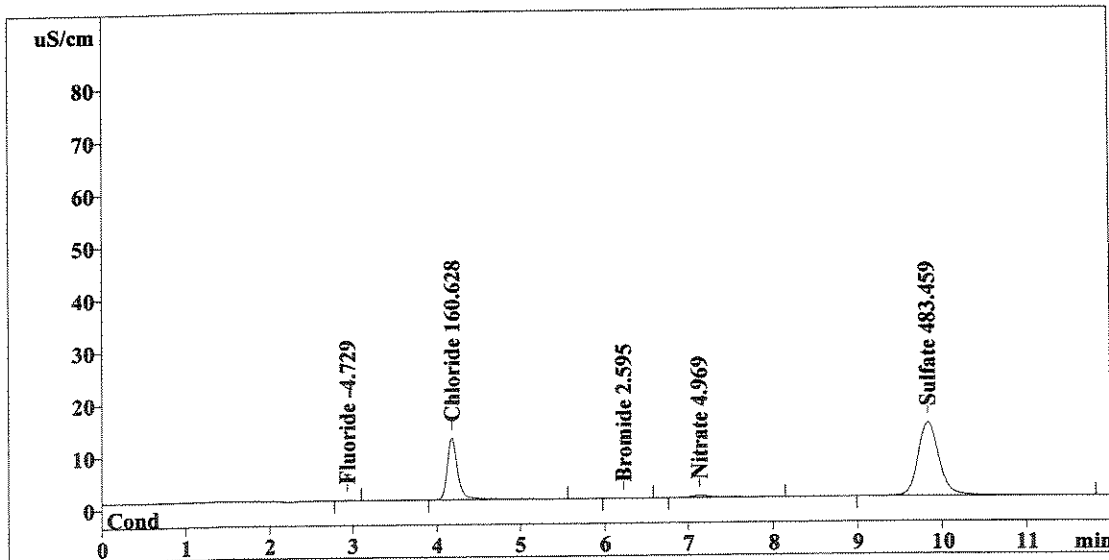
Method 300.0/9056

Report date: 6/18/2008 00:05:59
 Printed by: User
 Ident: 1093573
 Analysis from: 6/17/2008 23:54:01
 File: S6172354.CHW

Last save: 6/18/2008 00:06:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37125
 SAMPLE: S
 Vial number: 58
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.316	-4.729	Fluoride
2	4.18	103.544	160.628	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.22	0.055	2.595	Bromide
5	7.13	5.536	4.969	Nitrate
6	9.83	240.862	483.459	Sulfate
<hr/>				
6	12.00	350.314	656.380	

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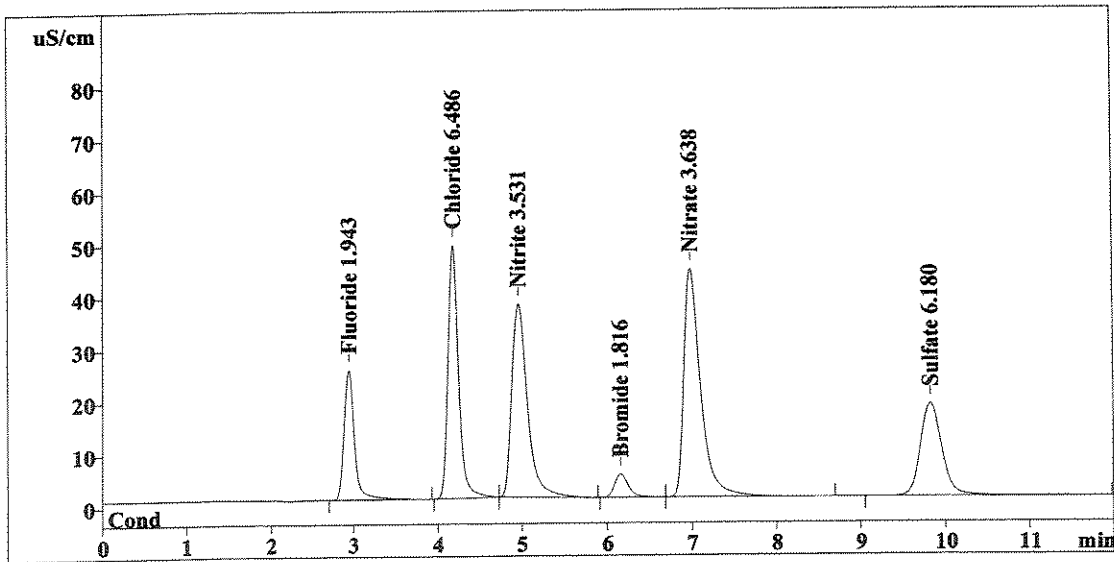
Method 300.0/9056

Report date: 6/18/2008 00:20:05
 Printed by: User
 Ident: CCV
 Analysis from: 6/18/2008 00:08:07
 File: S6180008.CHW

Last save: 6/18/2008 00:20:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37126
 SAMPLE:
 Vial number: 59
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	217.016	1.943	Fluoride
2	4.18	422.744	6.486	Chloride
3	4.96	480.437	3.531	Nitrite
4	6.16	50.675	1.816	Bromide
5	6.98	602.440	3.638	Nitrate
6	9.83	307.574	6.180	Sulfate
<hr/>				
6	12.00	2080.887	23.594	

Handwritten signature and date:
 6/18/08

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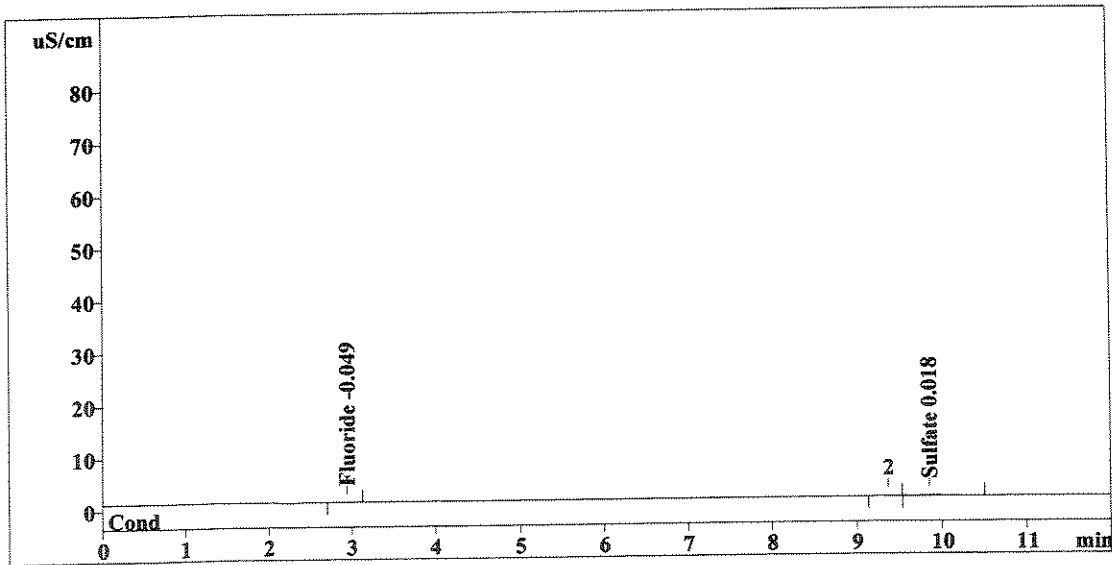
Method 300.0/9056

Report date: 6/18/2008 00:34:11
 Printed by: User
 Ident: CCB
 Analysis from: 6/18/2008 00:22:13
 File: S6180022.CHW

Last save: 6/18/2008 00:34:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37127
 SAMPLE:
 Vial number: 60
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	0.098	-0.049	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	9.85	1.984	0.018	Sulfate
<hr/>				
6	12.00	2.082	0.068	

Handwritten notes: A checkmark is next to the Fluoride row. A downward arrow points from the Fluoride row to the Sulfate row. A signature 'WTF/08' is written below the Sulfate row.

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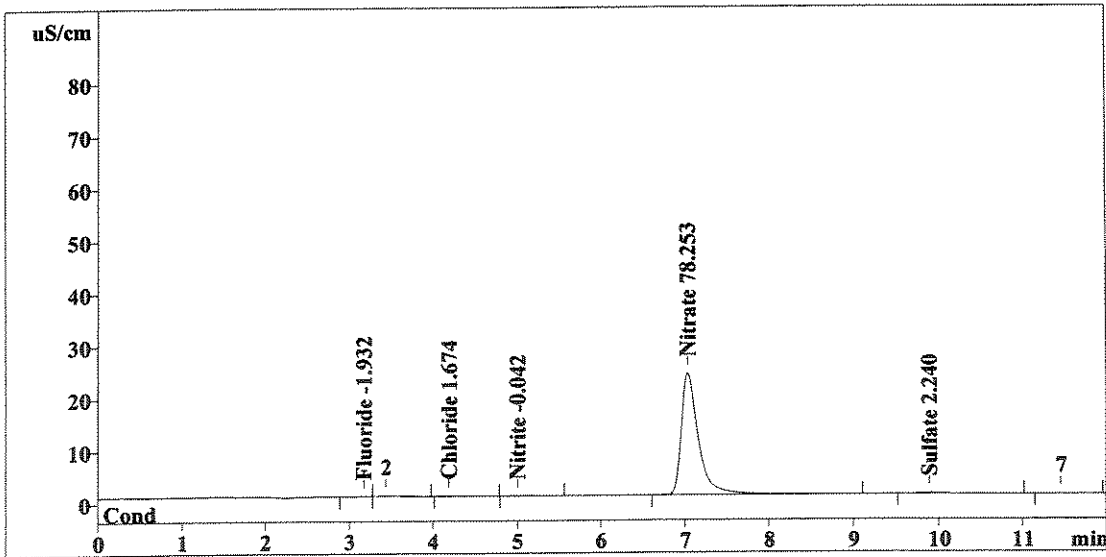
Method 300.0/9056

Report date: 6/18/2008 00:48:17
 Printed by: User
 Ident: LNAQ0613
 Analysis from: 6/18/2008 00:36:19
 File: S6180036.CHW

Last save: 6/18/2008 00:48:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37128
 SAMPLE: BTU
 Vial number: 61
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.17	0.206	-1.932	Fluoride
2	4.19	1.215	1.674	Chloride
3	5.00	0.583	-0.042	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.03	322.653	78.253	Nitrate
6	9.89	3.847	2.240	Sulfate
6	12.00	328.504	84.140	

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*CCV68 out for SO4.
 6/18/08*

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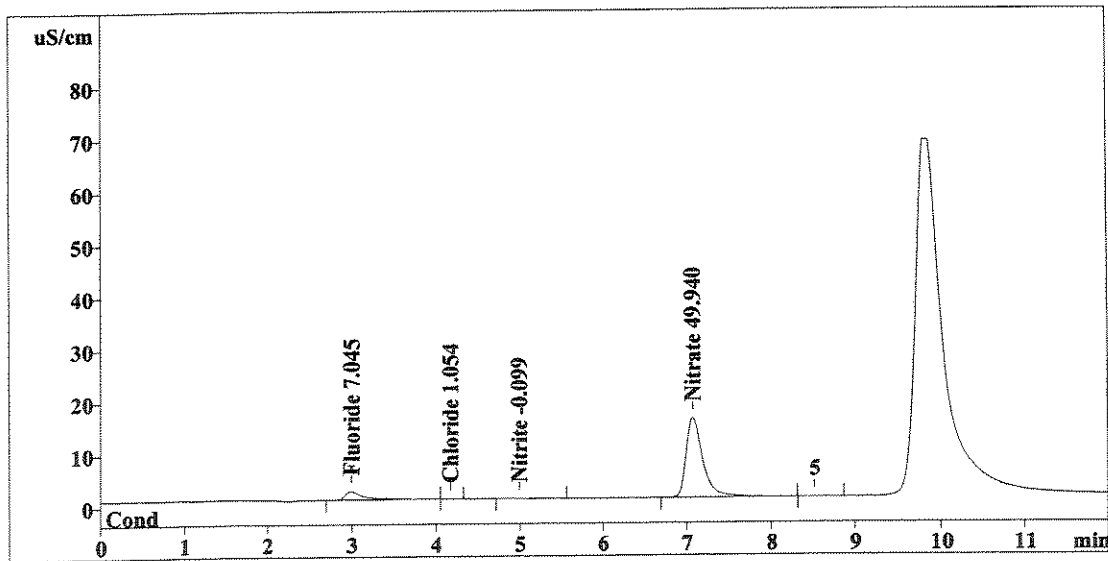
Method 300.0/9056

Report date: 6/18/2008 01:02:23
 Printed by: User
 Ident: 1106280A
 Analysis from: 6/18/2008 00:50:25
 File: S6180050.CHW

Last save: 6/18/2008 01:02:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37129
 SAMPLE: BTU
 Vial number: 62
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.99	24.643	7.045	Fluoride
2	4.17	0.202	1.054	Chloride
3	4.99	0.389	-0.099	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.07	204.926	49.940	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	230.160	58.138	

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*Closing CCV out.
 6/17/08*

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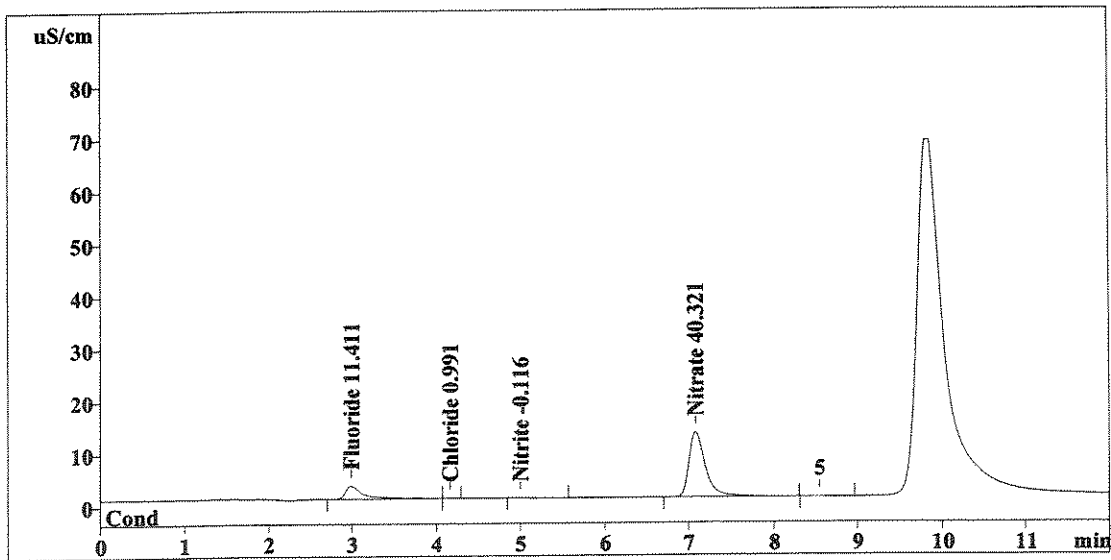
Method 300.0/9056

Report date: 6/18/2008 01:16:29
 Printed by: User
 Ident: 1106280B
 Analysis from: 6/18/2008 01:04:31
 File: S6180104.CHW

Last save: 6/18/2008 01:16:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37130
 SAMPLE: BTU
 Vial number: 63
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.99	36.528	11.411	Fluoride
2	4.17	0.099	0.991	Chloride
3	5.00	0.332	-0.116	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.08	164.928	40.321	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	201.887	52.839	

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Handwritten signature and date: 6/18/08

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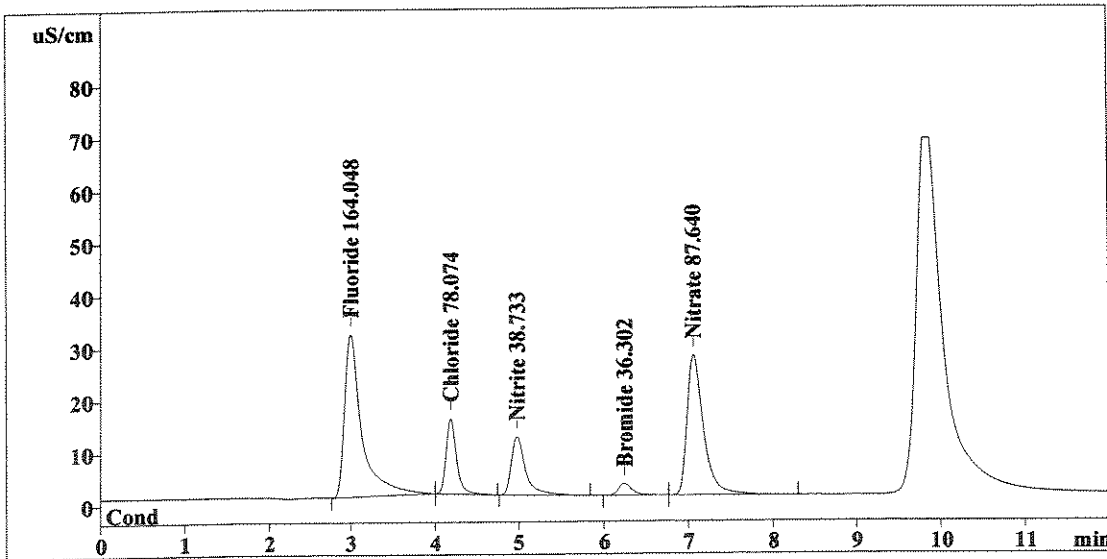
Method 300.0/9056

Report date: 6/18/2008 01:30:35
 Printed by: User
 Ident: 1106280A SPK
 Analysis from: 6/18/2008 01:18:37
 File: S6180118.CHW

Last save: 6/18/2008 01:30:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37131
 SAMPLE: BTU
 Vial number: 64
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.99	452.022	164.048	Fluoride
2	4.18	126.148	78.074	Chloride
3	4.98	132.293	38.733	Nitrite
4	6.24	24.980	36.302	Bromide
5	7.06	361.687	87.640	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	1097.131	404.797	

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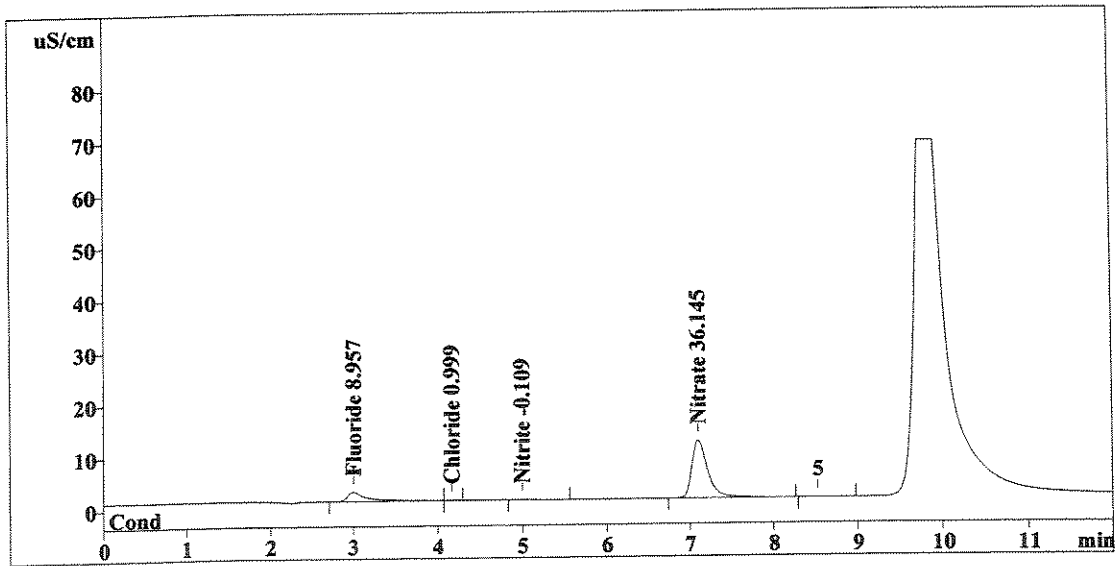
Method 300.0/9056

Report date: 6/18/2008 01:44:40
 Printed by: User
 Ident: 1106281A
 Analysis from: 6/18/2008 01:32:42
 File: S6180132.CHW

Last save: 6/18/2008 01:44:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37132
 SAMPLE: BTU
 Vial number: 65
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.00	29.849	8.957	Fluoride
2	4.17	0.112	0.999	Chloride
3	5.00	0.354	-0.109	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.10	147.565	36.145	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	177.880	46.210	

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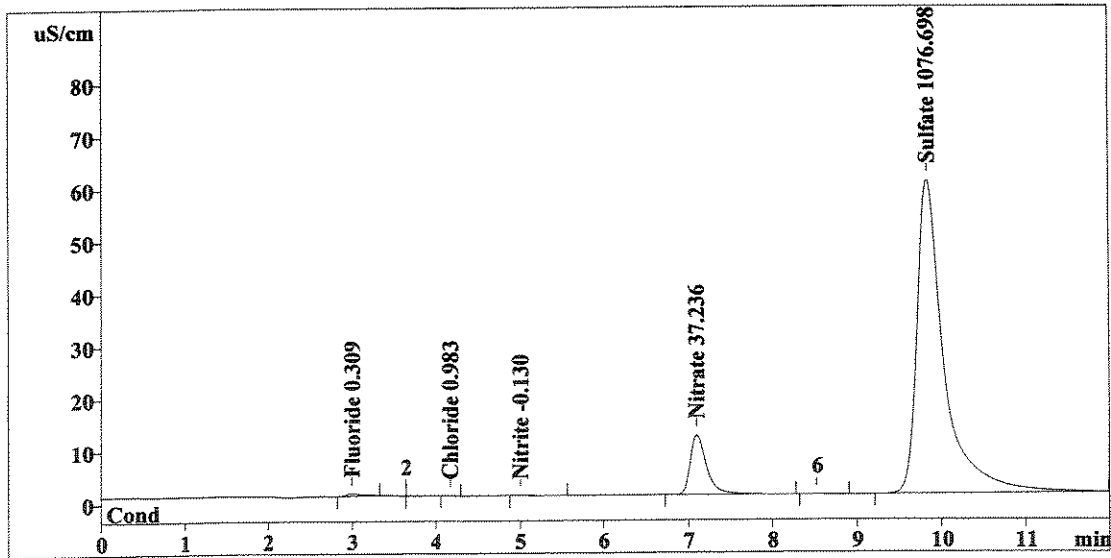
Method 300.0/9056

Report date: 6/18/2008 01:58:46
 Printed by: User
 Ident: 1107619A
 Analysis from: 6/18/2008 01:46:48
 File: S6180146.CHW

Last save: 6/18/2008 01:58:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37133
 SAMPLE: BTU
 Vial number: 66
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.99	6.307	0.309	Fluoride
2	4.17	0.085	0.983	Chloride
3	5.00	0.282	-0.130	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.10	152.101	37.236	Nitrate
6	9.84	1336.157	1076.698	Sulfate
6	12.00	1494.932	1115.355	

Handwritten signature and date: 6/18/08

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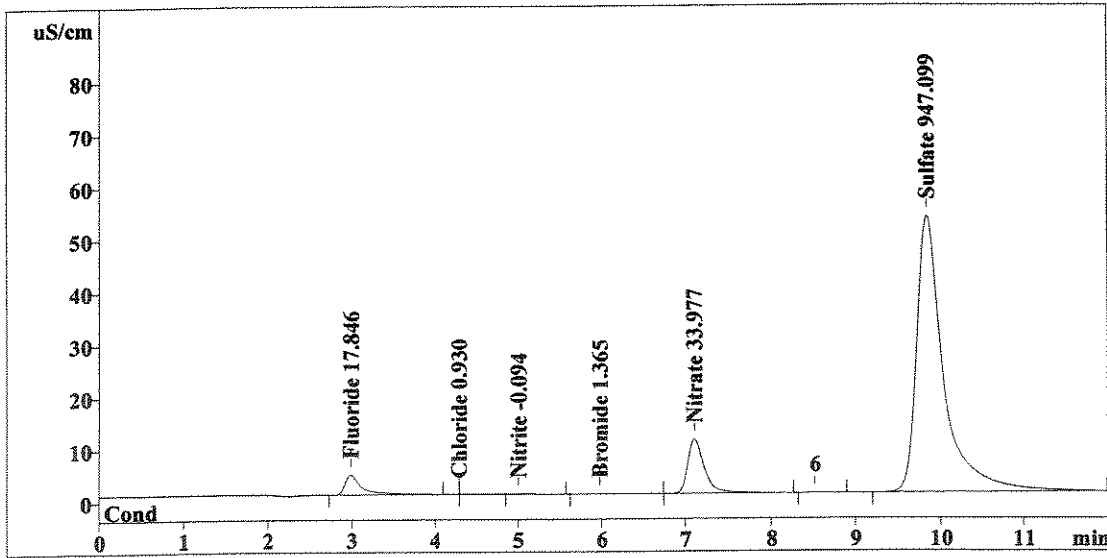
Method 300.0/9056

Report date: 6/18/2008 02:12:52
 Printed by: User
 Ident: 1107620A
 Analysis from: 6/18/2008 02:00:54
 File: S6180200.CHW

Last save: 6/18/2008 02:12:54

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37134
 SAMPLE: BTU
 Vial number: 67
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.98	54.045	17.846	Fluoride
2	4.29	-0.000	0.930	Chloride
3	5.00	0.407	-0.094	Nitrite
4	5.97	0.286	1.365	Bromide
5	7.10	138.549	33.977	Nitrate
6	9.84	1175.457	947.099	Sulfate
			1/400	
6	12.00	1368.744	1001.311	

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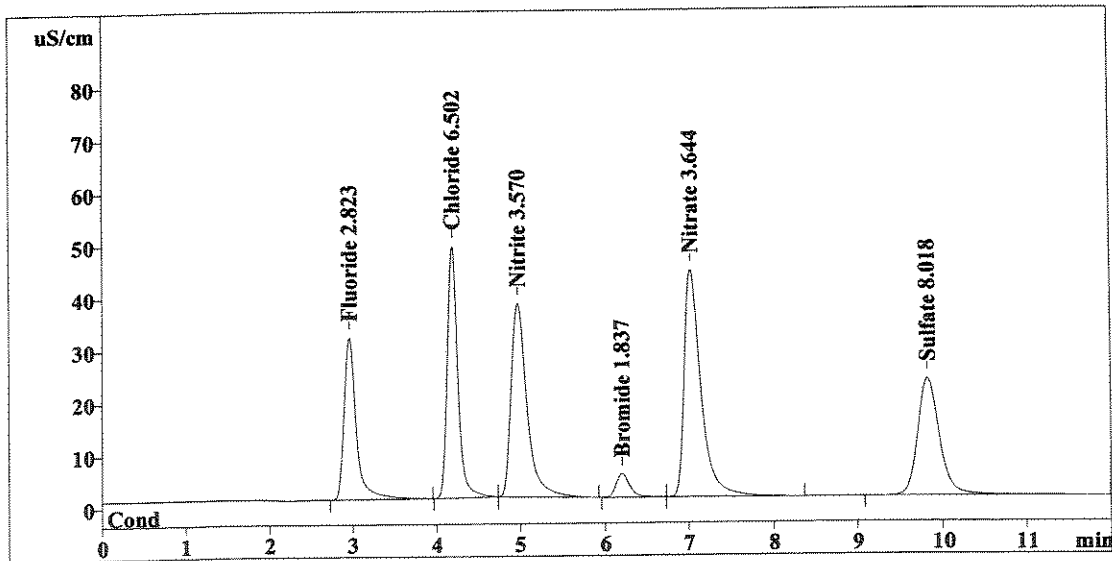
Method 300.0/9056

Report date: 6/18/2008 02:26:58
 Printed by: User
 Ident: CCV
 Analysis from: 6/18/2008 02:15:00
 File: S6180215.CHW

Last save: 6/18/2008 02:27:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37135
 SAMPLE:
 Vial number: 68
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	312.826	2.823	Fluoride
2	4.18	423.798	6.502	Chloride
3	4.97	485.719	3.570	Nitrite
4	6.20	51.266	1.837	Bromide
5	7.03	603.340	3.644	Nitrate
6	9.83	398.735	8.018	Sulfate
<hr/>				
6	12.00	2275.684	26.394	

OUT HIGH
 OK
 ↓
 OUT HIGH

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 6/18/08

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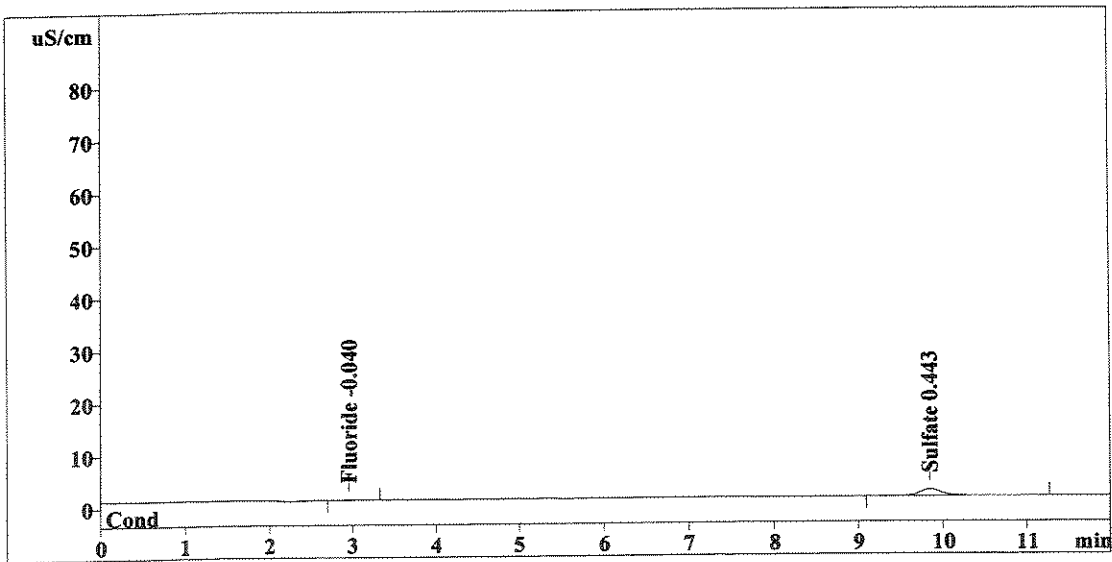
Method 300.0/9056

Report date: 6/18/2008 02:41:04
 Printed by: User
 Ident: CCB
 Analysis from: 6/18/2008 02:29:06
 File: S6180229.CHW

Last save: 6/18/2008 02:41:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37136
 SAMPLE:
 Vial number: 69
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/17/2008 08:08:31



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	1.062	-0.040	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	9.85	23.031	0.443	Sulfate
6	12.00	24.093	0.483	

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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: T. Christ Analysis Date: 6-17-08

Is copy of LCS attached to run? YES NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A		Working Calibration Stds	06/10/08	WC72050H
LCS / MS Intermediate	06/10/08	WC72050A		Working LCS/MS Standard	06/16/08	WC72093B
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	WC720050A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720093B
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 #: 162717

Analyte: NITRATE 9056 NITRATE NITROGEN (NO3) AS N BY ION CHROM

Printed: 06/20/08 16:48

44370
44538
44417
44557
44321
44491

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK5	-	1111170	WATER	3.57	1.0	0.0500	99.3		06/19/08		
BLK4	-	1111171	WATER	0.0500 U	1.0	0.0500			06/19/08		
SPKB	-	1111172	WATER	0.952	1.0	0.0500	95.2		06/19/08		
ESMP	R2844538	-	1110532	1.4/3 ^{SD} 6/28/08	10.0	0.0500			06/20/08		ASPB

Records printed: 4

Reviewed & Approved
By: Siletto
Date: 6/28/08

Run #: 162718

Analyte: NITRITE 9056 NITRITE NITROGEN (NO2) AS N BY ION CHROM

Printed: 06/20/08 16:49

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE</u>		<u>QC</u>	<u>PKG #</u>
				<u>RESULT</u>						<u>ANALYZED</u>			
CHK5		1111174	WATER	3.52		1.0	0.05	97.7		06/19/08			
BLK4		1111175	WATER	0.0500	U	1.0	0.05			06/19/08			
SPKB		1111176	WATER	0.996		1.0	0.05	99.6		06/19/08			
ESMP	R2844538	1110532	WATER	0.500	U	10.0	0.05			06/20/08			ASPB

Records printed: 4

Results entered manually

6/19/08

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample info 1	Sample info 2
Columbia-no dilution	CCV	146	1.0	1.0	1.0	100.0	0	1	1	Analyst: CW	
Columbia-no dilution	CCB	147	1.0	1.0	1.0	100.0	0	1	1	Pipettes: Lucy, Aude	
Columbia-no dilution	LCS	148	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1105195	1	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1105196	2	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1105202	3	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1105203	4	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1105204	5	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1105205	6	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1108709	7	1.0	20.0	1.0	100.0	0	1	1	1S	
Columbia-no dilution	1108856	8	1.0	40.0	1.0	100.0	0	1	1	1C	
Columbia-no dilution	1108856	9	1.0	10.0	1.0	100.0	0	1	1	1S	
Columbia-no dilution	1108857	10	1.0	10.0	1.0	100.0	0	1	1	1S	
Columbia-no dilution	1108857 DUP	11	1.0	10.0	1.0	100.0	0	1	1	1S	
Columbia-no dilution	1108857 SPK	12	1.0	10.0	1.0	100.0	0	1	1	1S	
Columbia-no dilution	CCV	13	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	14	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1108913	15	1.0	40.0	1.0	100.0	0	1	1	1C	
Columbia-no dilution	1103199	16	1.0	40.0	1.0	100.0	0	1	1	1C	
Columbia-no dilution	1105201	17	1.0	40.0	1.0	100.0	0	1	1	1C	
Columbia-no dilution	1103761	18	1.0	400.0	1.0	100.0	0	1	1	1C	
Columbia-no dilution	1103761 DUP	19	1.0	400.0	1.0	100.0	0	1	1	1C	
Columbia-no dilution	1103761 SPK	20	1.0	400.0	1.0	100.0	0	1	1	1C	
Columbia-no dilution	1103757	21	1.0	1000.0	1.0	100.0	0	1	1	1C	
Columbia-no dilution	1103762	22	1.0	1000.0	1.0	100.0	0	1	1	1C	
Columbia-no dilution	1103763	23	1.0	1000.0	1.0	100.0	0	1	1	1C	
Columbia-no dilution	1109953	24	1.0	20.0	1.0	100.0	0	1	1	1C	
Columbia-no dilution	1109953	25	1.0	10.0	1.0	100.0	0	1	1	1S	
Columbia-no dilution	1109954	26	1.0	10.0	1.0	100.0	0	1	1	1S	
Columbia-no dilution	1109954 DUP	27	1.0	10.0	1.0	100.0	0	1	1	1S	
Columbia-no dilution	1109954 SPK	28	1.0	10.0	1.0	100.0	0	1	1	1S	
Columbia-no dilution	CCV	29	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	30	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	LCS	31	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1106779	32	1.0	10.0	1.0	100.0	0	1	1	1CNS	
Columbia-no dilution	1106783	33	1.0	10.0	1.0	100.0	0	1	1	1CNS	
Columbia-no dilution	1106786	34	1.0	10.0	1.0	100.0	0	1	1	1CNS	
Columbia-no dilution	1106790	35	1.0	10.0	1.0	100.0	0	1	1	1CNS	
Columbia-no dilution	1106791	36	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	1110020	37	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	1110021	38	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	1110022	39	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	1110022 DUP	40	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	1110022 SPK	41	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	1110322	42	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	1110323	43	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	CCV	44	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	45	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1110532	145	1.0	10.0	1.0	100.0	0	1	1	1CNS	
Columbia-no dilution	1110324	47	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	1110325	48	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	1110325 DUP	49	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	1110325 SPK	50	1.0	10.0	1.0	100.0	0	1	1	1CS	
Columbia-no dilution	1110078	51	1.0	1.0	1.0	100.0	0	1	1	F	

worklists updated

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution	1110019	52	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110020	53	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110021	54	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110022	55	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110322	56	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110323	57	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	CCV	58	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	59	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	LCS	60	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1110324	61	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110325	62	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110325 DUP	63	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110325 SPK	64	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110504	65	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1110505	66	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1110506	67	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1110507	68	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1110507 DUP	69	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1110507 SPK	70	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1110504	71	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110505	72	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110506	73	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110507	74	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110507 DUP	75	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	1110507 SPK	76	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution	CCV	77	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	78	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1110955	79	1.0	20.0	1.0	100.0	0	1	1	C	
Columbia-no dilution	1110955	80	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution	1076273	81	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution	1110018	82	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1110019	83	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	CCV	102	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	103	1.0	1.0	1.0	100.0	0	1	1		

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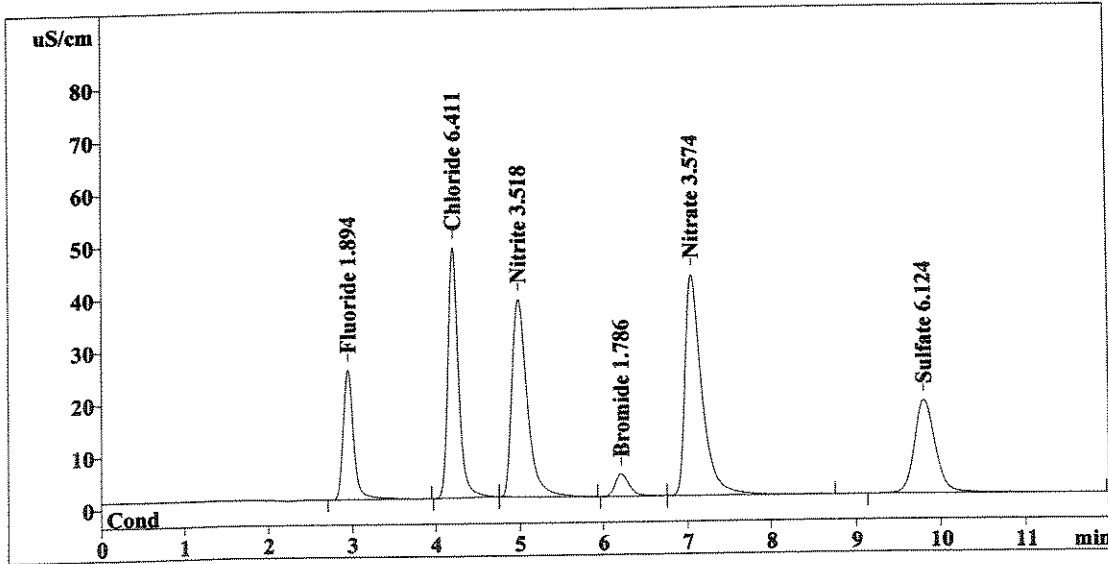
Method 300.0/9056

Report date: 6/19/2008 10:09:00
 Printed by: User
 Ident: CCV
 Analysis from: 6/19/2008 09:57:02
 File: S6190957.CHW

Last save: 6/19/2008 10:09:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37204
 SAMPLE:
 Vial number: 146
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	211.747	1.894	Fluoride
2	4.20	417.848	6.411	Chloride
3	4.98	478.769	3.518	Nitrite
4	6.21	49.806	1.786	Bromide
5	7.05	591.729	3.574	Nitrate
6	9.81	304.793	6.124	Sulfate
<hr/>			23.308	
6	12.00	2054.693		

OK
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 OK
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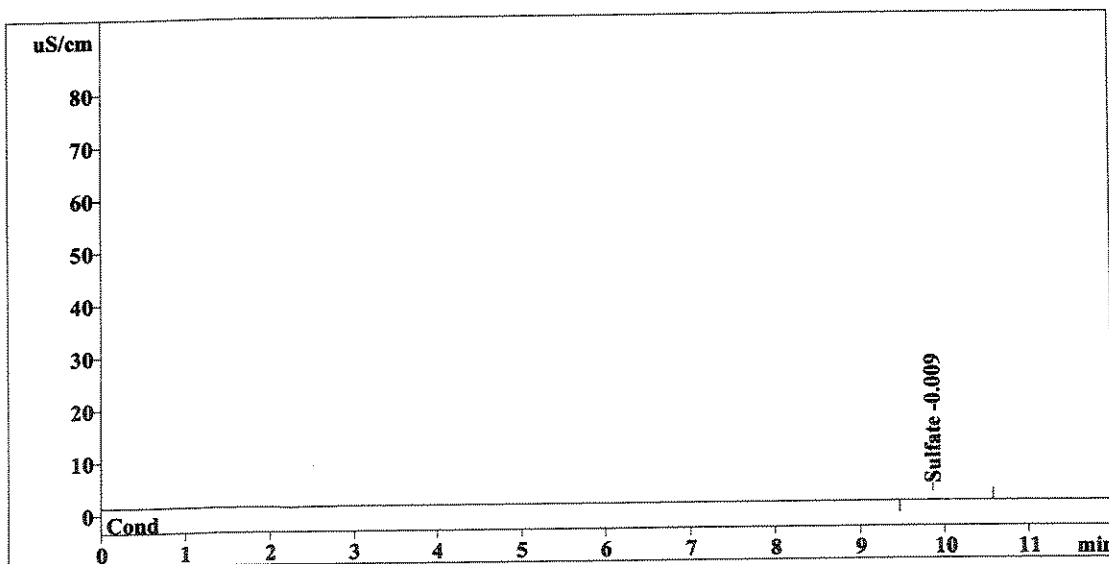
Method 300.0/9056

Report date: 6/19/2008 10:23:06
 Printed by: User
 Ident: CCB
 Analysis from: 6/19/2008 10:11:08
 File: S6191011.CHW

Last save: 6/19/2008 10:23:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37205
 SAMPLE:
 Vial number: 147
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



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	9.86	0.631	-0.009	Sulfate
<hr/>				
6	12.00	0.631	0.009	

OK
↓

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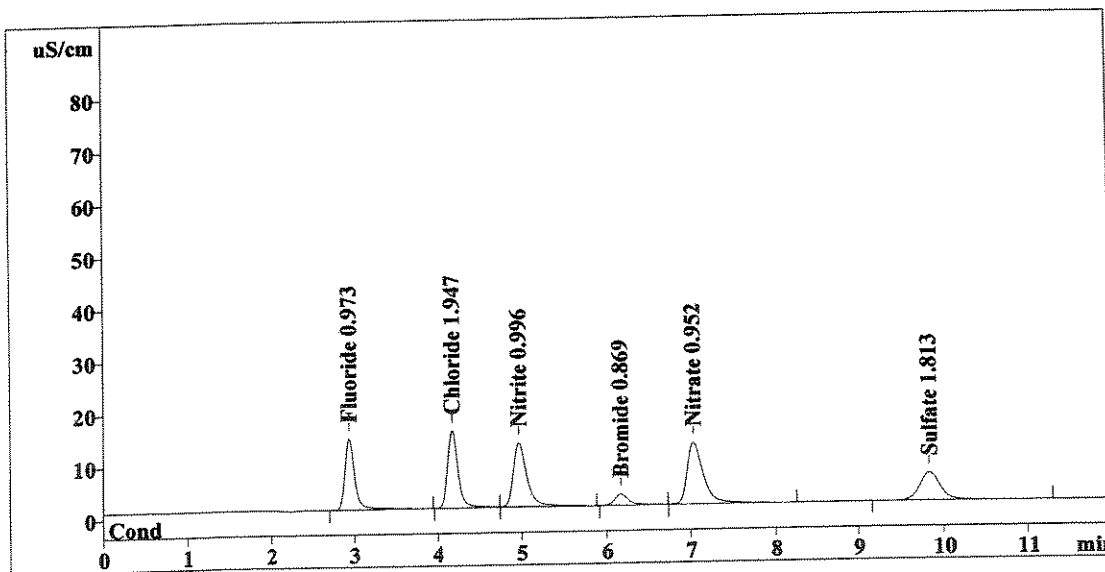
Method 300.0/9056

Report date: 6/19/2008 10:37:12
 Printed by: User
 Ident: LCS
 Analysis from: 6/19/2008 10:25:14
 File: S6191025.CHW

Last save: 6/19/2008 10:37:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37206
 SAMPLE:
 Vial number: 148
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	111.425	0.973	Fluoride
2	4.17	125.843	1.947	Chloride
3	4.97	136.068	0.996	Nitrite
4	6.17	23.877	0.869	Bromide
5	7.04	155.556	0.952	Nitrate
6	9.84	90.976	1.813	Sulfate
6	12.00	643.747	7.549	

OK
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 out low
 OK
 ↓

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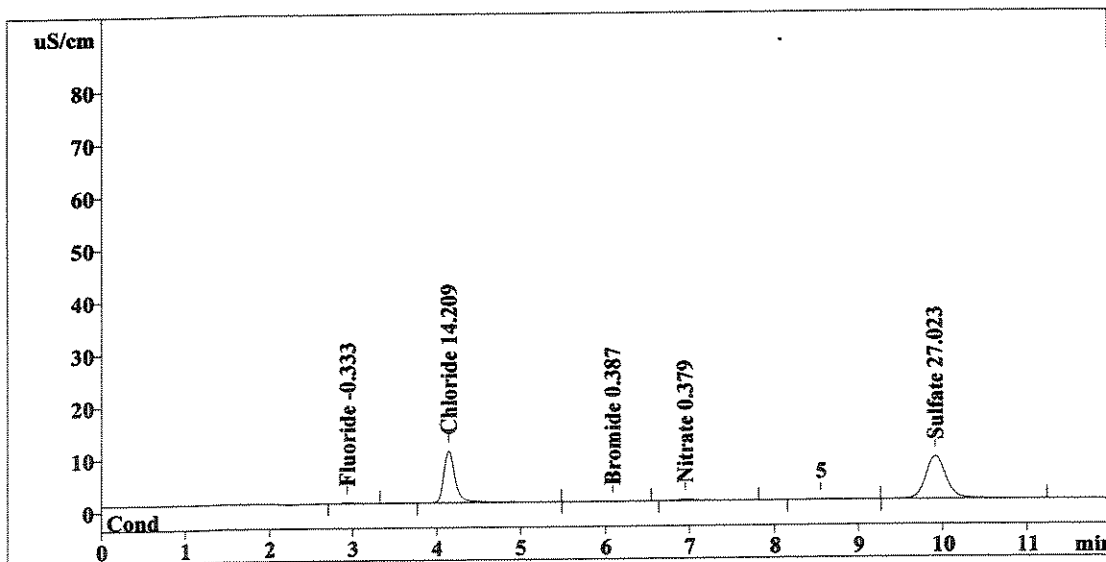
Method 300.0/9056

Report date: 6/19/2008 14:04:31
 Printed by: User
 Ident: 1105195
 Analysis from: 6/19/2008 13:52:33
 File: S6191352.CHW

Last save: 6/19/2008 14:04:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37207
 SAMPLE: CNS
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	1.835	-0.333	Fluoride
2	4.14	91.418	OK 14.209	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.09	0.416	0.387	Bromide
5	6.95	3.574	OK 0.379	Nitrate
6	9.92	135.102	OK 27.023	Sulfate
<hr/>				
6	12.00	232.345	42.331	

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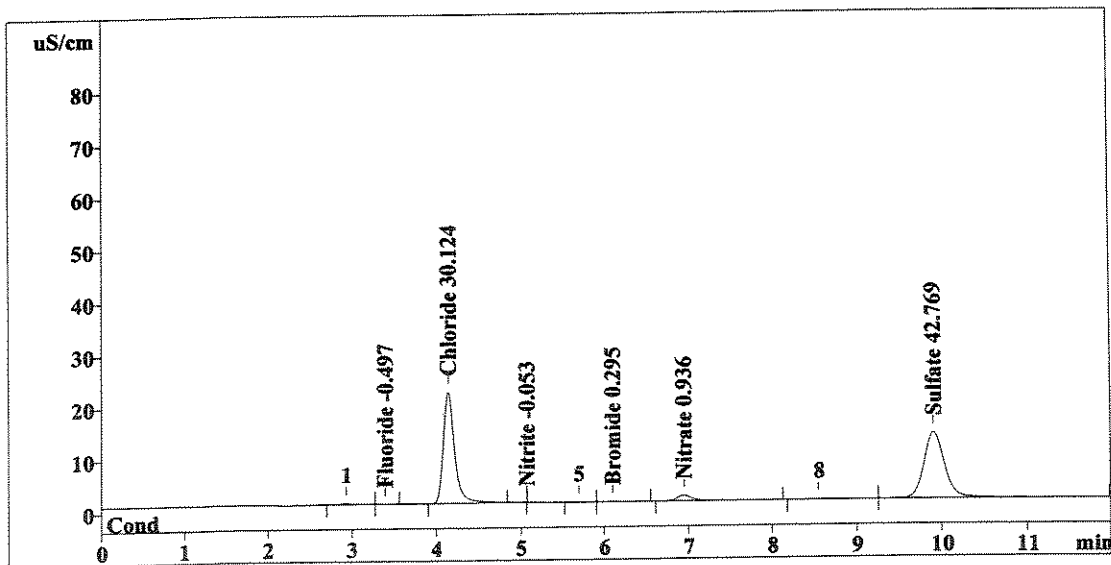
Method 300.0/9056

Report date: 6/19/2008 14:18:37
 Printed by: User
 Ident: 1105196
 Analysis from: 6/19/2008 14:06:39
 File: S6191406.CHW

Last save: 6/19/2008 14:18:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37208
 SAMPLE: CNS
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	0.055	-0.497	Fluoride
2	4.14	195.517	OK 30.124	Chloride
3	5.07	-0.000	-0.053	Nitrite
4	6.11	0.154	0.295	Bromide
5	6.95	12.847	OK 0.936	Nitrate
6	9.91	213.199	OK 42.769	Sulfate
6	12.00	421.771	74.674	

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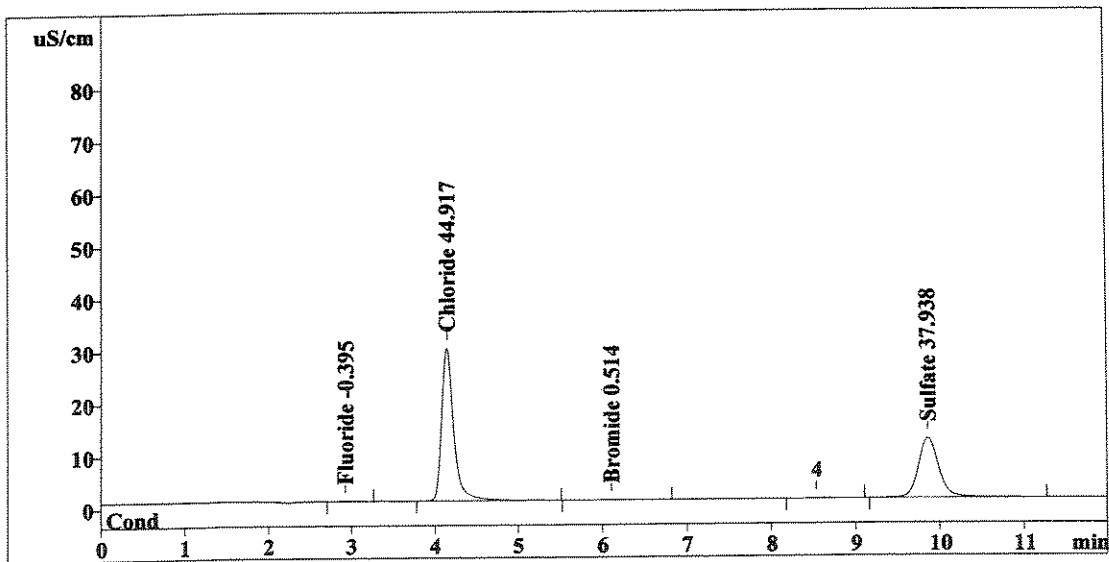
Method 300.0/9056

Report date: 6/19/2008 14:32:43
 Printed by: User
 Ident: 1105202
 Analysis from: 6/19/2008 14:20:45
 File: S6191420.CHW

Last save: 6/19/2008 14:32:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37209
 SAMPLE: CNS
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	1.169	-0.395	Fluoride
2	4.14	292.278	OK 44.917	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.11	0.776	0.514	Bromide
5	0.00	0.000	OK 0.000	Nitrate
6	9.86	189.241	OK 37.938	Sulfate
<hr/>				
6	12.00	483.464	83.764	

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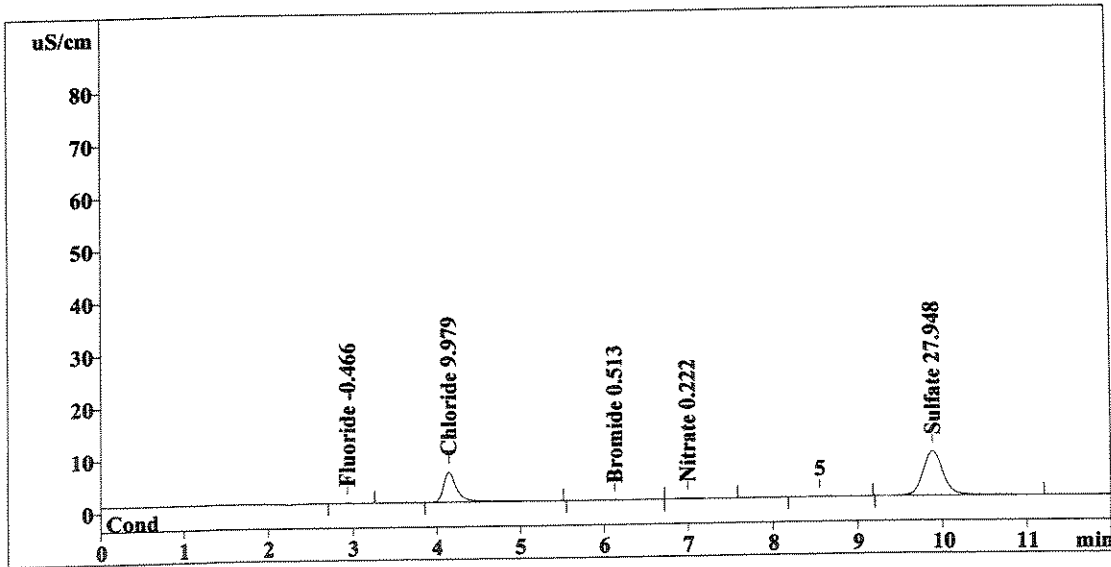
Method 300.0/9056

Report date: 6/19/2008 14:46:49
 Printed by: User
 Ident: 1105203
 Analysis from: 6/19/2008 14:34:51
 File: S6191434.CHW

Last save: 6/19/2008 14:46:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37210
 SAMPLE: CNS
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.392	-0.466	Fluoride
2	4.14	63.749	OK 9.979	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.13	0.773	0.513	Bromide
5	7.00	0.958	OK 0.222	Nitrate
6	9.88	139.691	OK 27.948	Sulfate
6	12.00	205.563	39.128	

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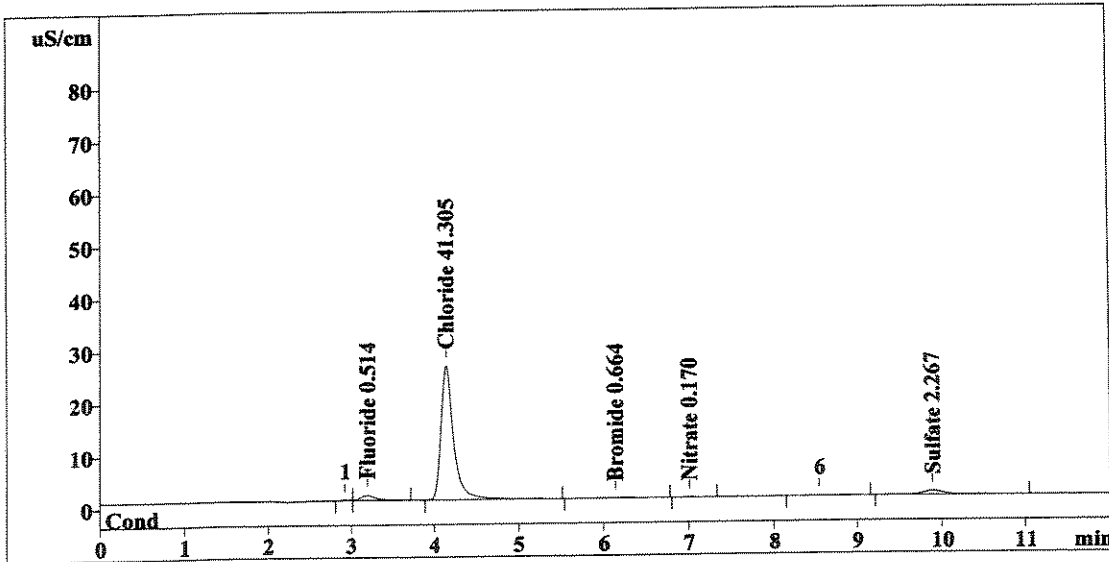
Method 300.0/9056

Report date: 6/19/2008 15:00:55
 Printed by: User
 Ident: 1105204
 Analysis from: 6/19/2008 14:48:57
 File: S6191448.CHW

Last save: 6/19/2008 15:01:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37211
 SAMPLE: CNS
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.19	11.063	0.514	Fluoride
2	4.14	268.655	<i>OK</i> 41.305	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.13	1.199	0.664	Bromide
5	7.01	0.097	<i>OK</i> 0.170	Nitrate
6	9.89	12.315	<i>OK</i> 2.267	Sulfate
6	12.00	293.328	44.920	

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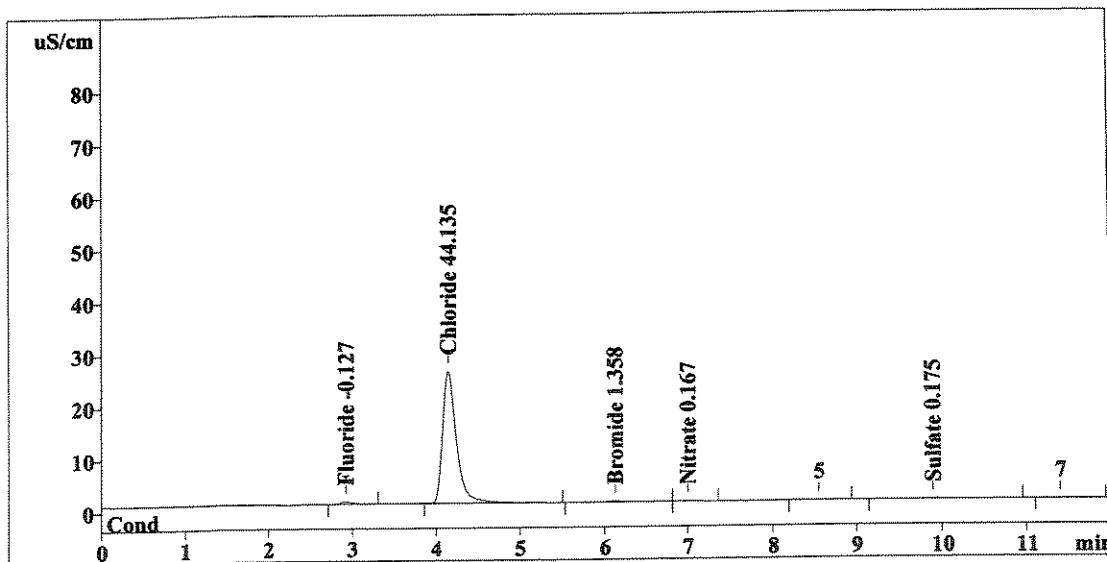
Method 300.0/9056

Report date: 6/19/2008 15:15:01
 Printed by: User
 Ident: 1105205
 Analysis from: 6/19/2008 15:03:02
 File: S6191503.CHW

Last save: 6/19/2008 15:15:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37212
 SAMPLE: CNS
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	4.088	-0.127	Fluoride
2	4.14	287.161	OK 44.135	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.13	3.162	1.358	Bromide
5	7.01	0.054	OK 0.167	Nitrate
6	9.90	1.935	OK 0.175	Sulfate
6	12.00	296.401	45.961	

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TC 0120108

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

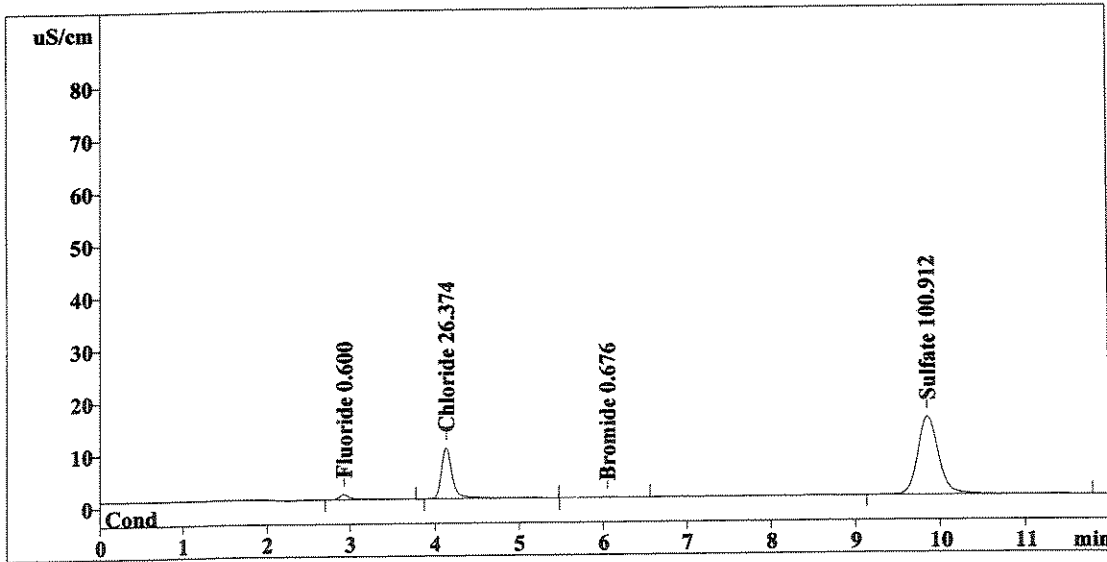
Method 300.0/9056

Report date: 6/19/2008 15:29:07
 Printed by: User
 Ident: 1108709
 Analysis from: 6/19/2008 15:17:08
 File: S6191517.CHW

Last save: 6/19/2008 15:29:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37213
 SAMPLE: S
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	8.732	0.600	Fluoride
2	4.13	84.735	26.374	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.05	0.278	0.676	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.85	251.327	OK 100.912	Sulfate
6	12.00	345.073	128.562	

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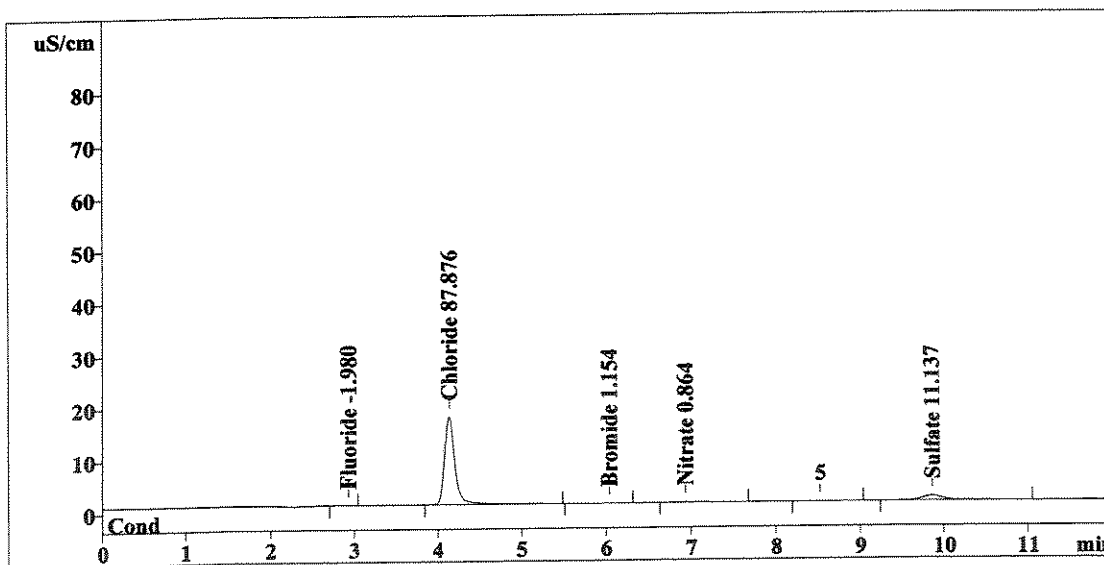
Method 300.0/9056

Report date: 6/19/2008 15:43:12
 Printed by: User
 Ident: 1108856
 Analysis from: 6/19/2008 15:31:14
 File: S6191531.CHW

Last save: 6/19/2008 15:43:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37214
 SAMPLE: C
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.075	-1.980	Fluoride
2	4.13	142.176	OK 87.876	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.04	0.137	1.154	Bromide
5	6.94	0.865	0.864	Nitrate
6	9.86	14.879	11.137	Sulfate
<hr/>				
6	12.00	158.132	103.011	

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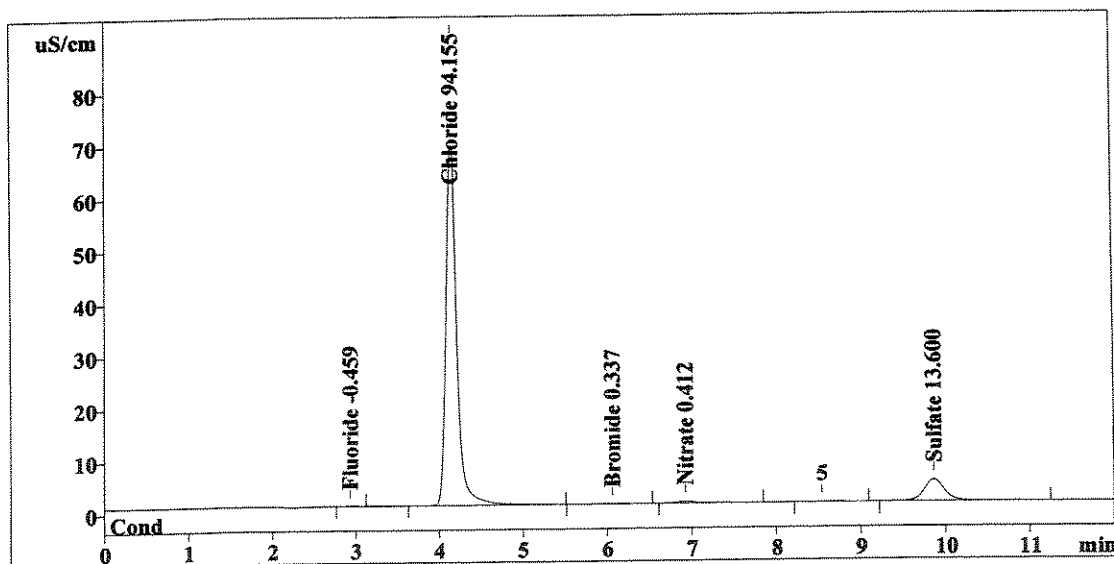
Method 300.0/9056

Report date: 6/19/2008 15:57:19
 Printed by: User
 Ident: 1108856
 Analysis from: 6/19/2008 15:45:21
 File: S6191545.CHW

Last save: 6/19/2008 15:57:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37215
 SAMPLE: S
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.473	-0.459	Fluoride
2	4.13	614.344	94.155	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.07	0.274	0.337	Bromide
5	6.92	4.122	0.412	Nitrate
6	9.86	68.523	13.600	Sulfate
<hr/>				
6	12.00	687.736	108.962	

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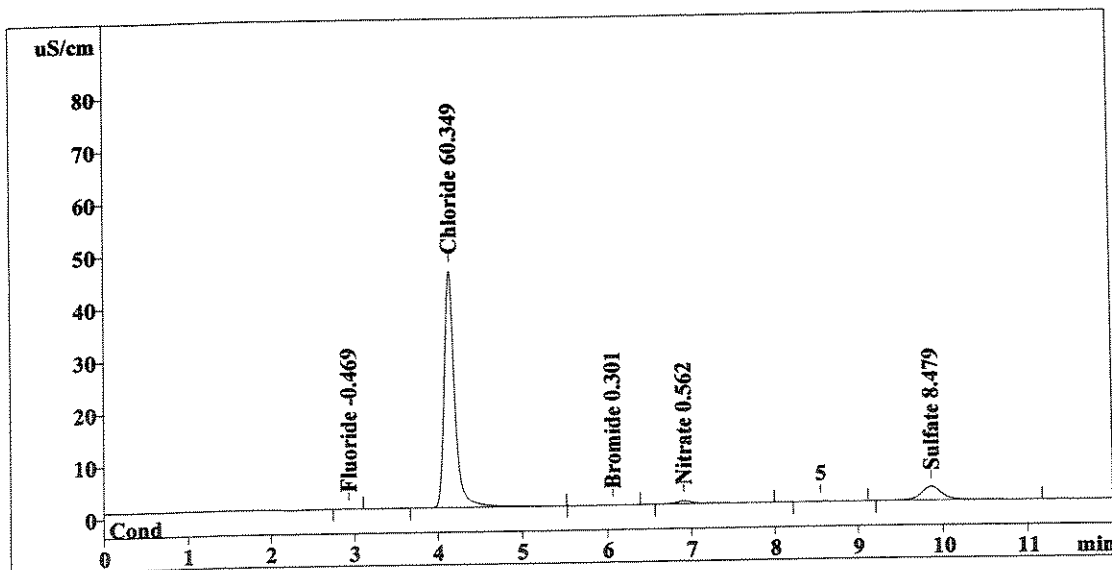
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/19/2008 16:11:25
 Printed by: User
 Ident: 1108857
 Analysis from: 6/19/2008 15:59:26
 File: S6191559.CHW

Method 300.0/9056

Last save: 6/19/2008 16:11:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37216
 SAMPLE: S
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.359	-0.469	Fluoride
2	4.13	393.217	60.349	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.05	0.172	0.301	Bromide
5	6.91	6.620	0.562	Nitrate
6	9.86	43.125	OK 8.479	Sulfate
6	12.00	443.494	70.160	

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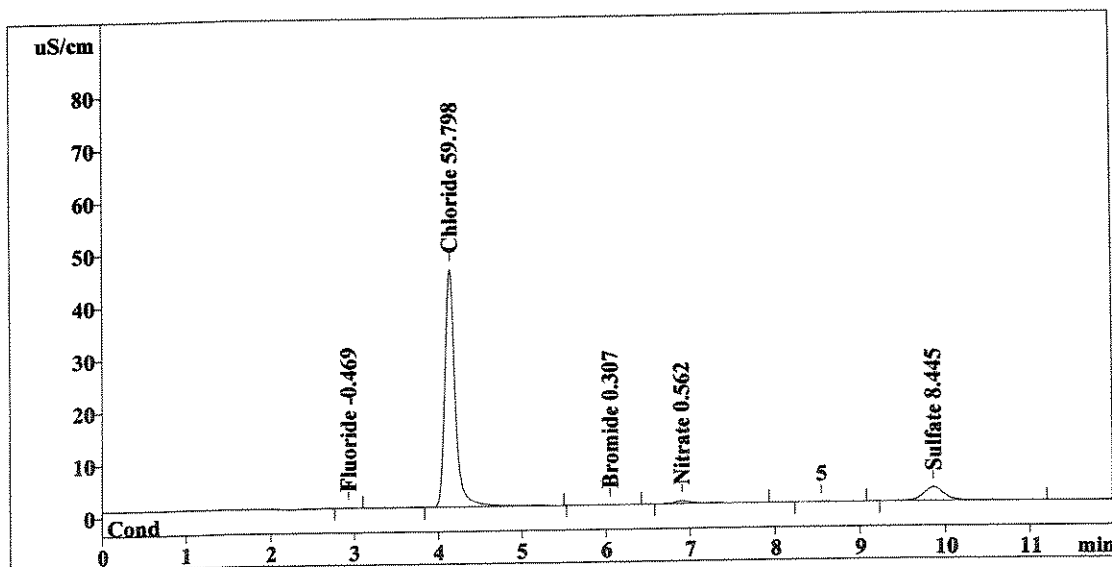
Method 300.0/9056

Report date: 6/19/2008 16:25:30
 Printed by: User
 Ident: 1108857 DUP
 Analysis from: 6/19/2008 16:13:32
 File: S6191613.CHW

Last save: 6/19/2008 16:25:36

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37217
 SAMPLE: S
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.354	-0.469	Fluoride
2	4.13	389.615	59.798	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.05	0.190	0.307	Bromide
5	6.90	6.617	0.562	Nitrate
6	9.86	42.957	OK 8.445	Sulfate
6	12.00	439.734	69.582	

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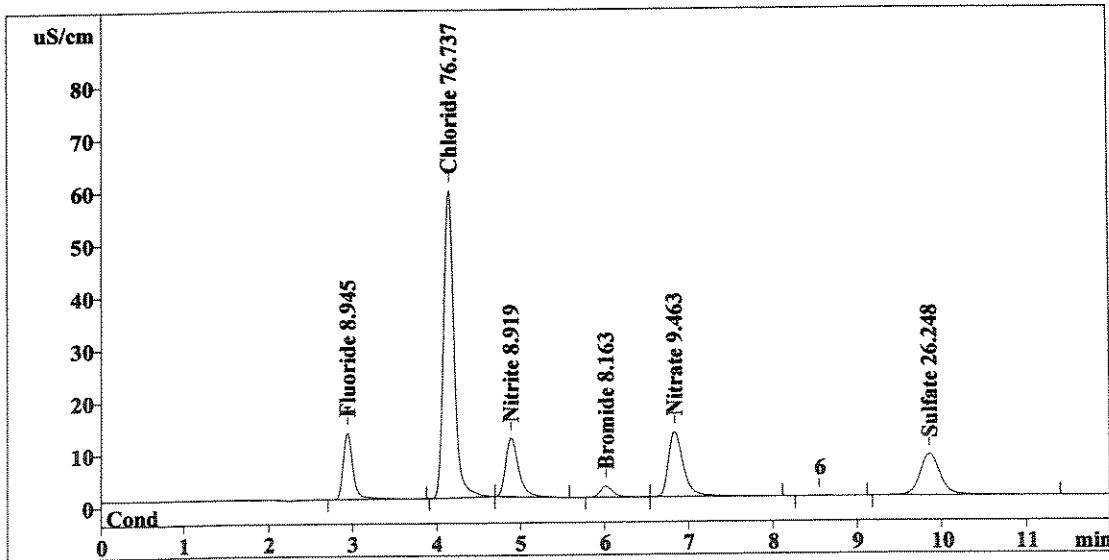
TC 6/20/08

Report date: 6/19/2008 16:39:36
 Printed by: User
 Ident: 1108857 SPK
 Analysis from: 6/19/2008 16:27:38
 File: S6191627.CHW

Last save: 6/19/2008 16:39:42

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37218
 SAMPLE: S
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	102.862	8.945	Fluoride
2	4.14	500.412	76.737	Chloride
3	4.89	121.914	8.919	Nitrite
4	6.02	22.399	8.163	Bromide
5	6.83	154.657	9.463	Nitrate
6	9.86	131.259	26.248	Sulfate
6	12.00	1033.502	138.475	

Handwritten notes: *OK* next to the Sulfate concentration; $\frac{8.479}{20} \times 100 = 88.8\%$ next to the Sulfate name.

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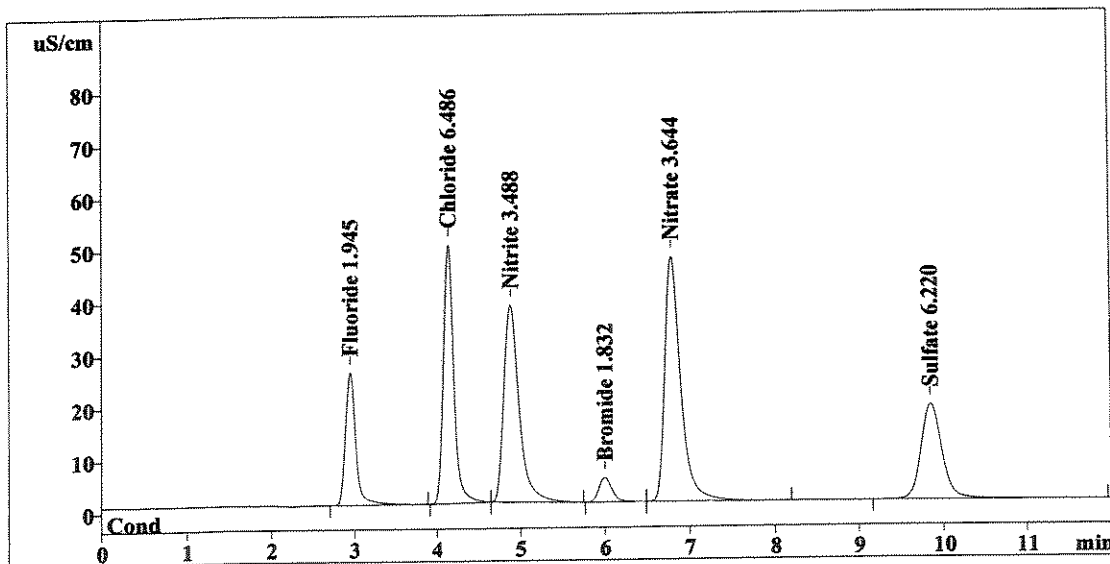
Method 300.0/9056

Report date: 6/19/2008 16:53:42
 Printed by: User
 Ident: CCV
 Analysis from: 6/19/2008 16:41:44
 File: S6191641.CHW

Last save: 6/19/2008 16:53:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37219
 SAMPLE:
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	217.278	1.945	Fluoride
2	4.13	422.714	6.486	Chloride
3	4.87	474.577	3.488	Nitrite
4	6.00	51.114	1.832	Bromide
5	6.78	603.365	3.644	Nitrate
6	9.85	309.599	6.220	Sulfate
<hr/>				
6	12.00	2078.649	23.615	

OK
↓

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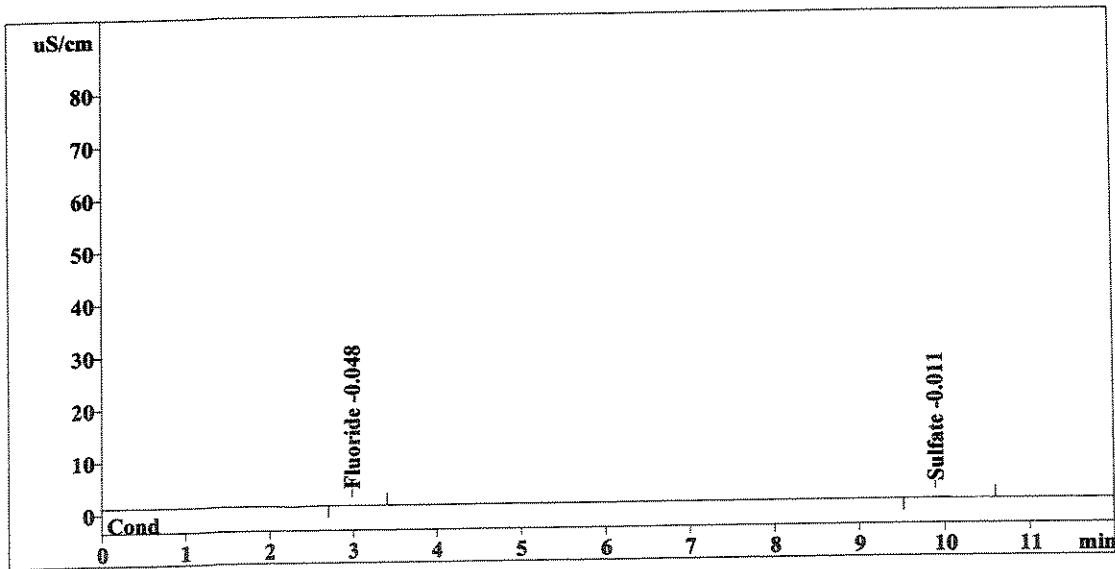
Method 300.0/9056

Report date: 6/19/2008 17:07:48
 Printed by: User
 Ident: CCB
 Analysis from: 6/19/2008 16:55:50
 File: S6191655.CHW

Last save: 6/19/2008 17:07:54

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37220
 SAMPLE:
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.99	0.195	-0.048	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	9.89	0.508	-0.011	Sulfate
<hr/>			0.060	
6	12.00	0.703		

OK
↓

TC 6/20/08

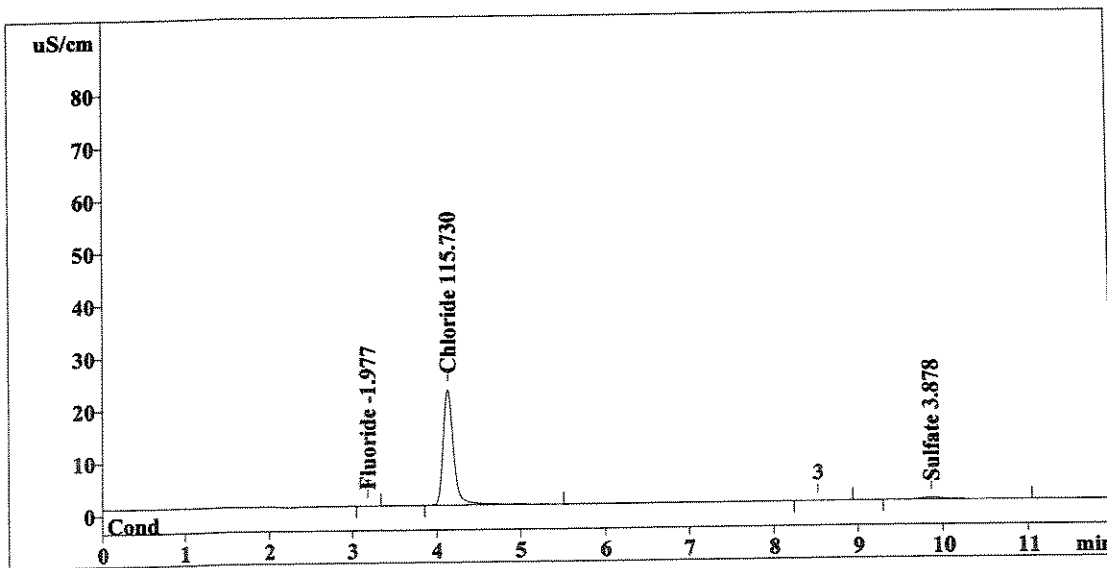
This report has been created by IC Net
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Report date: 6/19/2008 17:21:54
 Printed by: User
 Ident: 1108913
 Analysis from: 6/19/2008 17:09:56
 File: S6191709.CHW

Last save: 6/19/2008 17:22:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37221
 SAMPLE: C
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.19	0.085	-1.977	Fluoride
2	4.13	187.724	OK 115.730	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	9.87	5.879	3.878	Sulfate
6	12.00	193.688	121.585	

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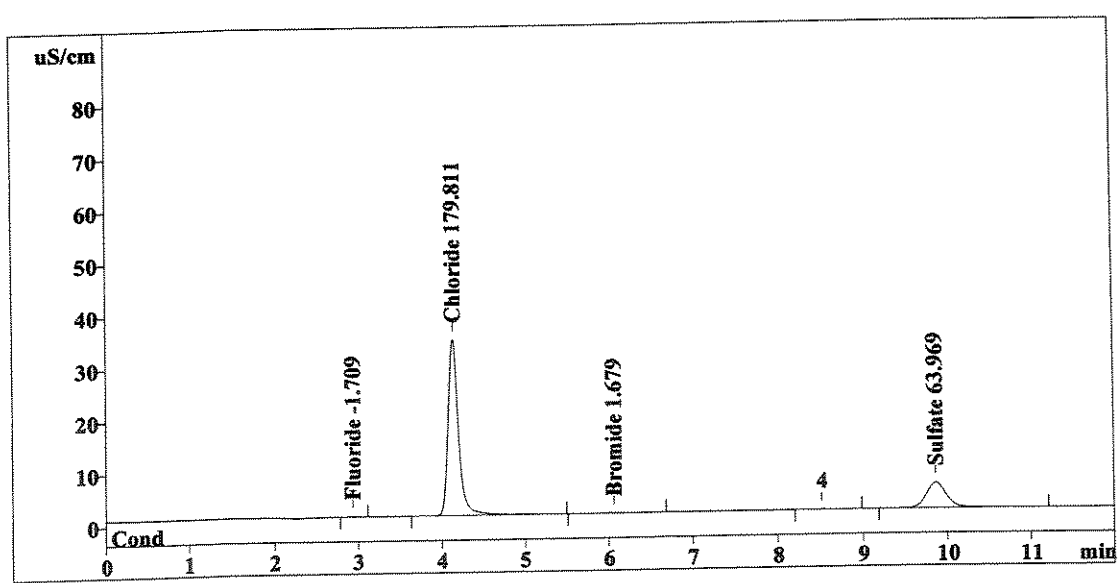
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/19/2008 17:36:00
 Printed by: User
 Ident: 1105199
 Analysis from: 6/19/2008 17:24:02
 File: S6191724.CHW

Method 300.0/9056

Last save: 6/19/2008 17:36:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37222
 SAMPLE: C
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.814	-1.709	Fluoride
2	4.13	292.512	179.811	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.06	0.509	1.679	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.87	80.390	63.969	Sulfate
<hr/>				
6	12.00	374.224	247.167	

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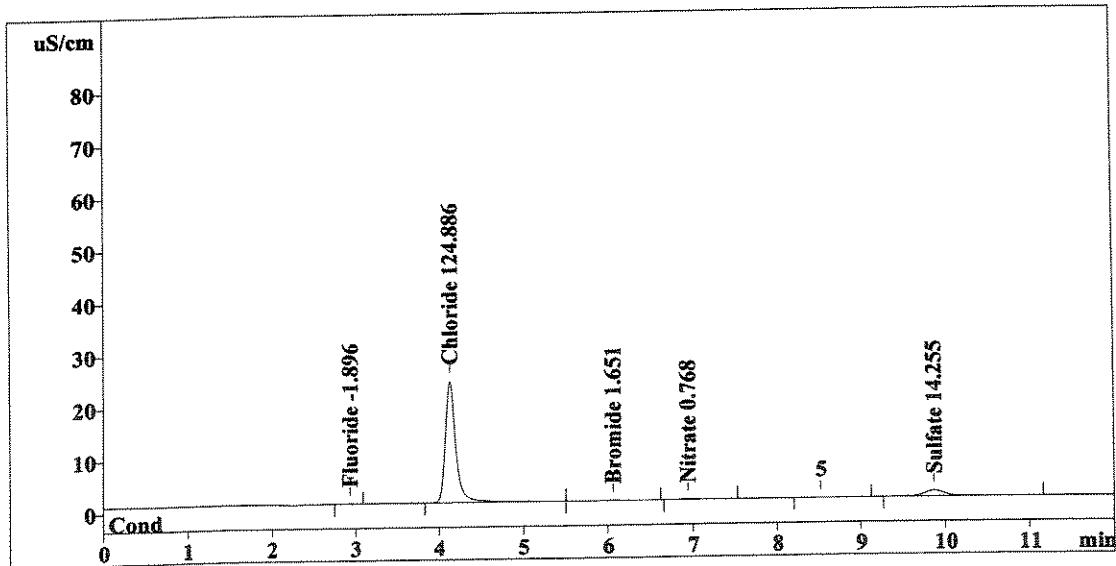
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/19/2008 17:50:06
 Printed by: User
 Ident: 1105201
 Analysis from: 6/19/2008 17:38:08
 File: S6191738.CHW

Method 300.0/9056

Last save: 6/19/2008 17:50:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37223
 SAMPLE: C
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.303	-1.896	Fluoride
2	4.13	202.698	OK 124.886	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.07	0.489	1.651	Bromide
5	6.94	0.464	0.768	Nitrate
6	9.87	18.746	14.255	Sulfate
6	12.00	222.699	143.457	

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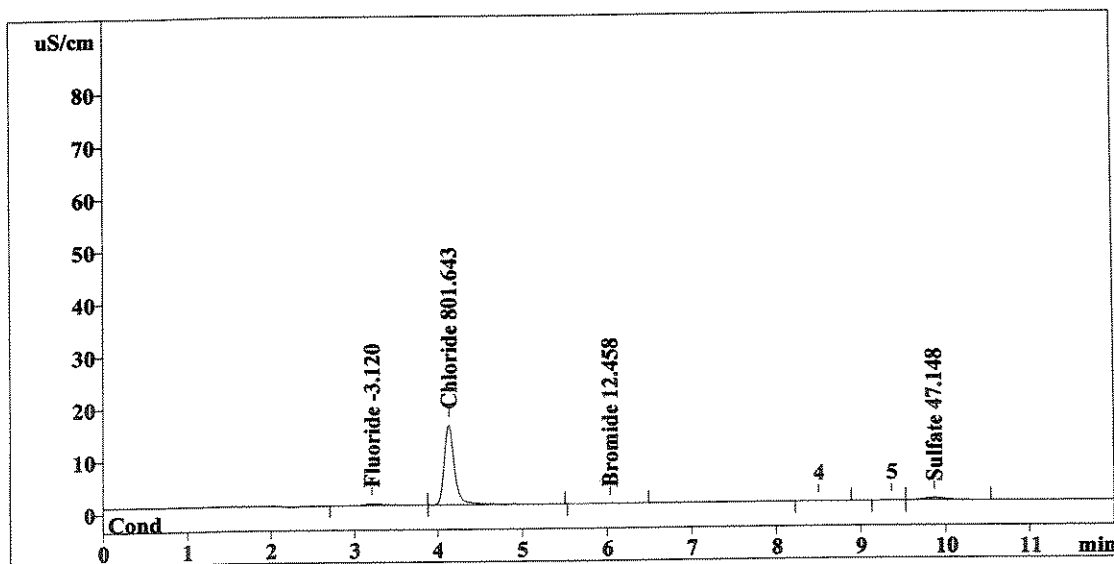
Method 300.0/9056

Report date: 6/19/2008 18:04:12
 Printed by: User
 Ident: 1103761
 Analysis from: 6/19/2008 17:52:13
 File: S6191752.CHW

Last save: 6/19/2008 18:04:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37224
 SAMPLE: C
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.21	4.616	-3.120	Fluoride
2	4.13	129.566	OK 801.643	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.04	0.202	12.458	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.87	6.916	47.148	Sulfate
<hr/>				
6	12.00	141.301	864.370	

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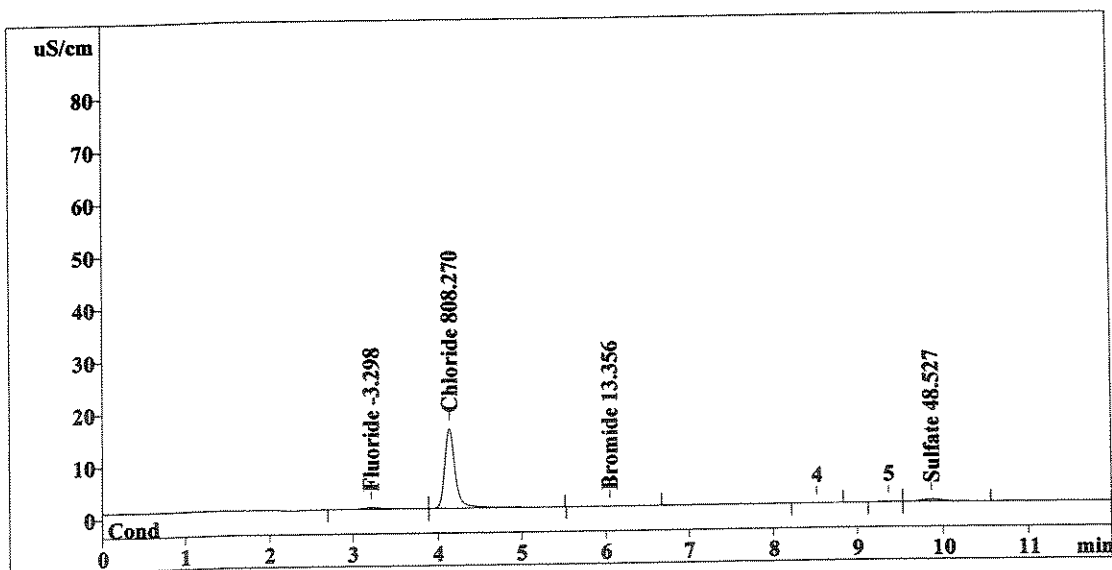
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/19/2008 18:18:17
 Printed by: User
 Ident: 1103761 DUP
 Analysis from: 6/19/2008 18:06:19
 File: S6191806.CHW

Method 300.0/9056

Last save: 6/19/2008 18:18:24

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37225
 SAMPLE: C
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.21	4.568	-3.298	Fluoride
2	4.13	130.650	808.270	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.05	0.266	13.356	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.87	7.087	48.527	Sulfate
<hr/>			873.451	
6	12.00	142.570		

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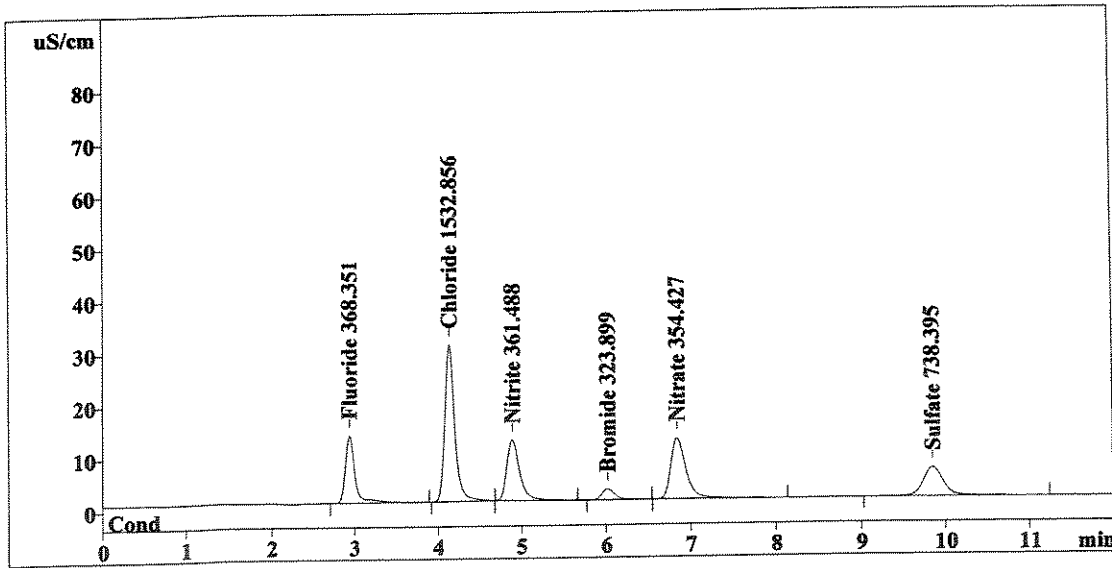
Method 300.0/9056

Report date: 6/19/2008 18:32:23
 Printed by: User
 Ident: 1103761 SPK
 Analysis from: 6/19/2008 18:20:25
 File: S6191820.CHW

Last save: 6/19/2008 18:32:29

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37226
 SAMPLE: C
 Vial number: 20
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	105.735	368.351	Fluoride
2	4.13	249.137	1532.856	Chloride
3	4.89	123.514	361.488	Nitrite
4	6.02	22.215	323.899	Bromide
5	6.84	144.645	354.427	Nitrate
6	9.85	92.629	738.395	Sulfate
<hr/>				
6	12.00	737.875	3679.417	

Handwritten notes:
 OK
 Chloride $\frac{861.643}{800} \times 100 = 91.4\%$

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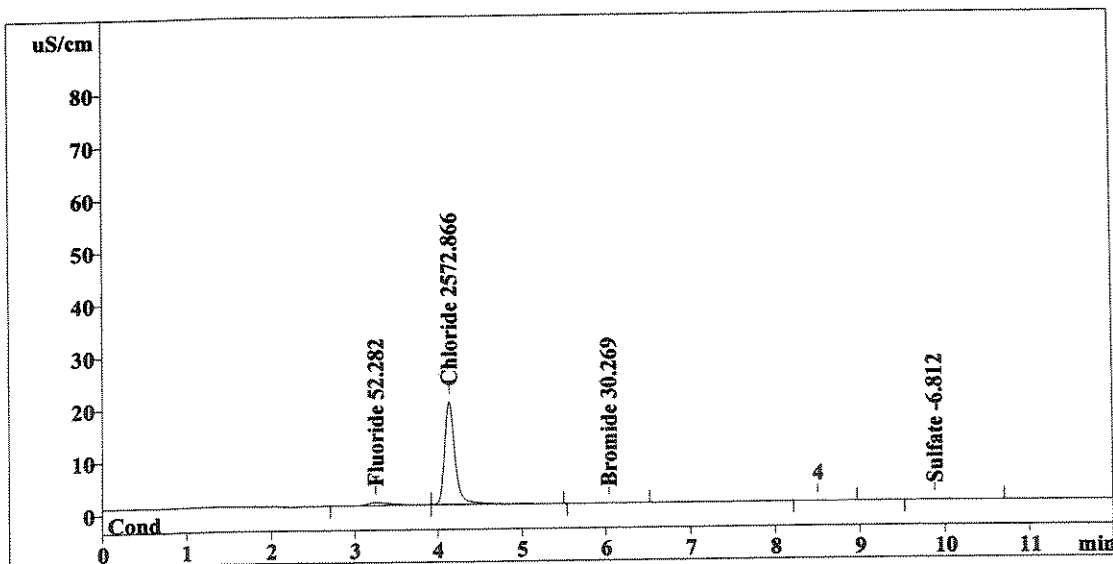
Method 300.0/9056

Report date: 6/19/2008 18:46:29
 Printed by: User
 Ident: 1103757
 Analysis from: 6/19/2008 18:34:31
 File: S6191834.CHW

Last save: 6/19/2008 18:46:35

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37227
 SAMPLE: C
 Vial number: 21
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.25	11.158	52.282	Fluoride
2	4.13	166.769	OL 2572.866	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.04	0.178	30.269	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.89	0.732	-6.812	Sulfate
<hr/>				
6	12.00	178.836	2662.230	

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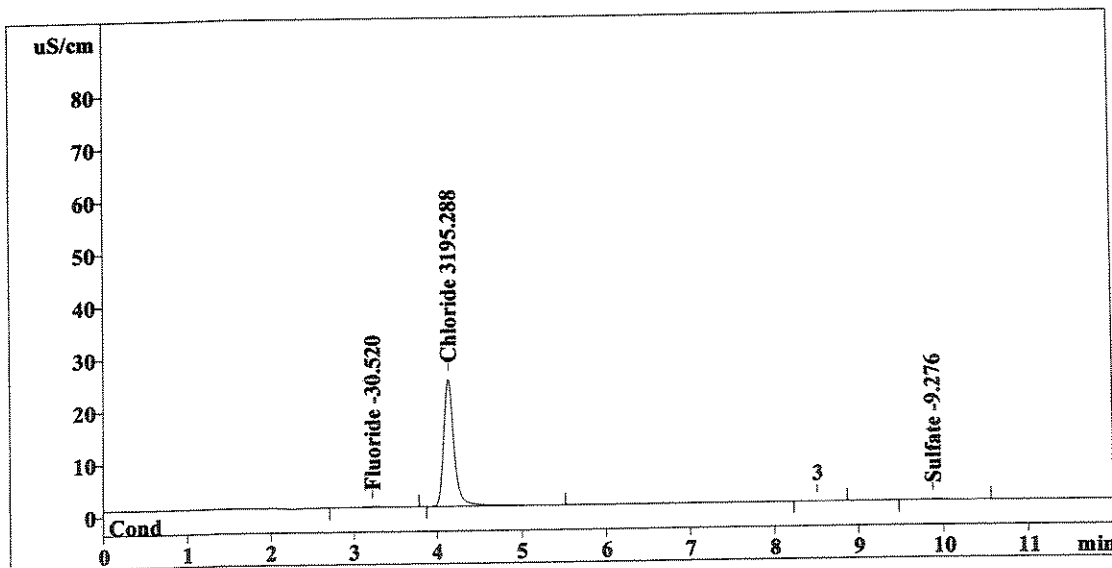
Method 300.0/9056

Report date: 6/19/2008 19:00:35
 Printed by: User
 Ident: 1103762
 Analysis from: 6/19/2008 18:48:37
 File: S6191848.CHW

Last save: 6/19/2008 19:00:41

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37228
 SAMPLE: C
 Vial number: 22
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.22	2.142	-30.520	Fluoride
2	4.14	207.481	OK 3195.288	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	9.88	0.610	-9.276	Sulfate
<hr/>				
6	12.00	210.233	3235.085	

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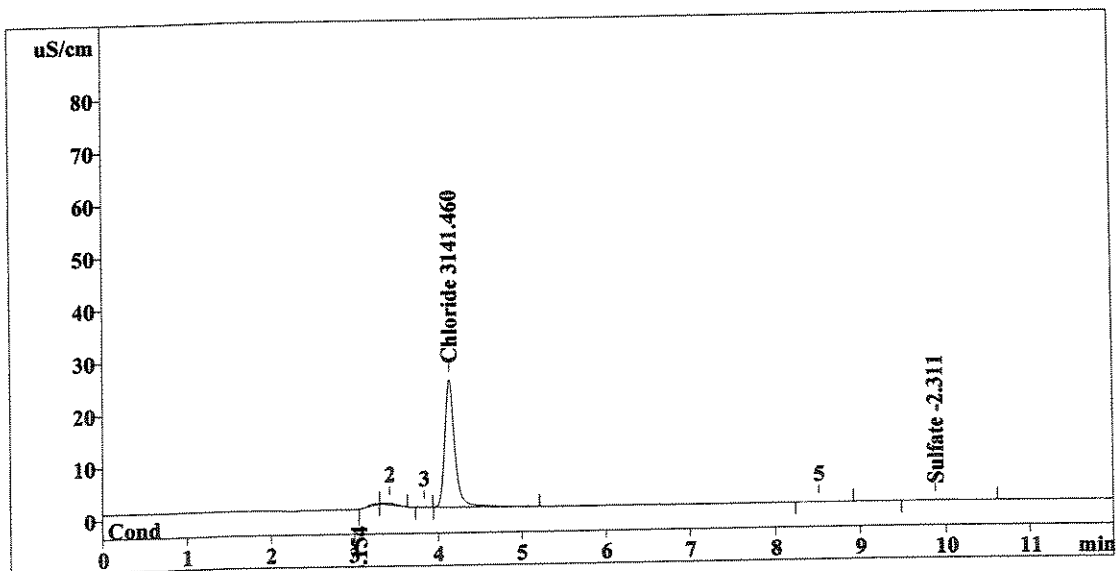
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/19/2008 19:14:41
 Printed by: User
 Ident: 1103763
 Analysis from: 6/19/2008 19:02:43
 File: S6191902.CHW

Method 300.0/9056

Last save: 6/19/2008 19:14:47

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37229
 SAMPLE: C
 Vial number: 23
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.05	1.638	-35.154	Fluoride
2	4.13	203.960	OL 3141.460	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	9.88	0.955	-2.311	Sulfate
<hr/>				
6	12.00	206.553	3178.925	

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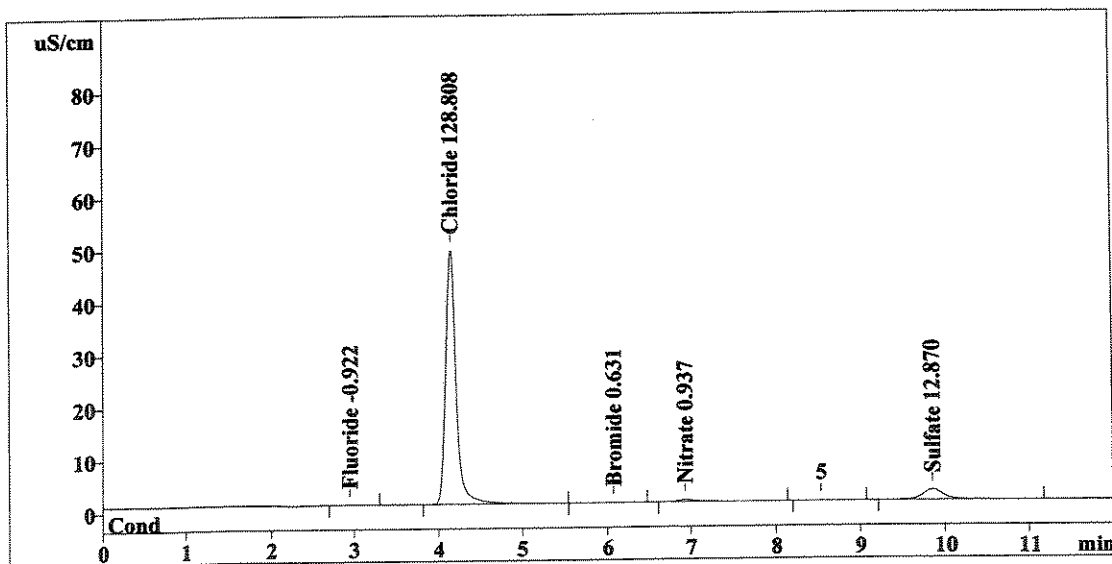
Method 300.0/9056

Report date: 6/19/2008 19:28:47
 Printed by: User
 Ident: 1109953
 Analysis from: 6/19/2008 19:16:48
 File: S6191916.CHW

Last save: 6/19/2008 19:28:53

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37230
 SAMPLE: C
 Vial number: 24
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	0.445	-0.922	Fluoride
2	4.14	419.742	OK 128.808	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.07	0.214	0.631	Bromide
5	6.93	5.064	0.937	Nitrate
6	9.85	32.986	12.870	Sulfate
<hr/>				
6	12.00	458.451	144.168	

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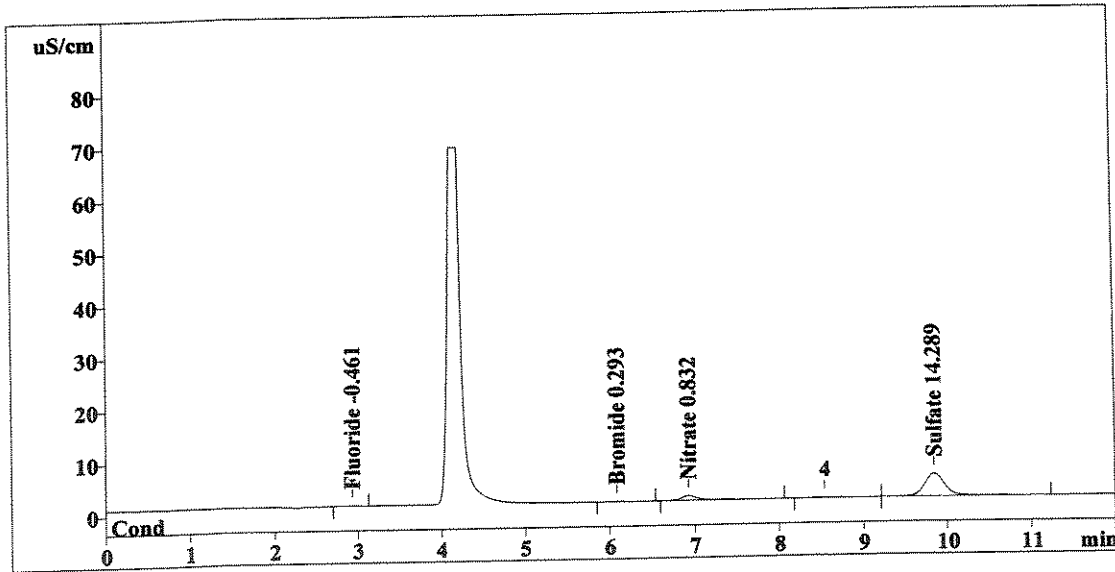
Method 300.0/9056

Report date: 6/19/2008 19:42:53
 Printed by: User
 Ident: 1109953
 Analysis from: 6/19/2008 19:30:54
 File: S6191930.CHW

Last save: 6/19/2008 19:42:59

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37231
 SAMPLE: S
 Vial number: 25
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.449	-0.461	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.08	0.150	0.293	Bromide
5	6.93	11.107	0.832	Nitrate
6	9.85	71.943	OK 14.289	Sulfate
6	12.00	83.649	15.875	

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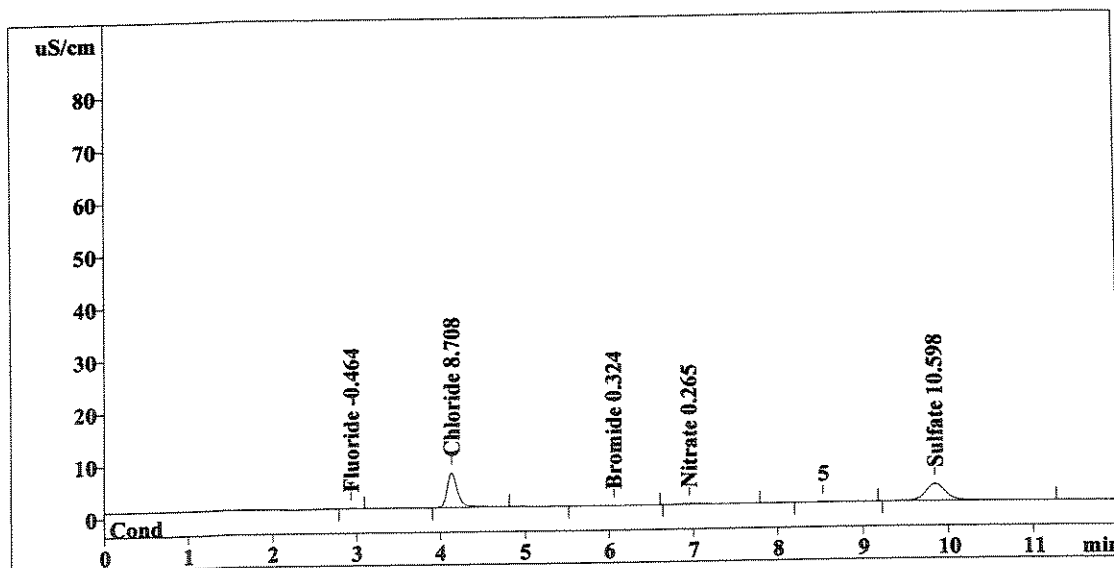
Method 300.0/9056

Report date: 6/19/2008 19:56:58
 Printed by: User
 Ident: 1109954
 Analysis from: 6/19/2008 19:45:00
 File: S6191945.CHW

Last save: 6/19/2008 19:57:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37232
 SAMPLE: S
 Vial number: 26
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.414	-0.464	Fluoride
2	4.13	55.439	8.708	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.07	0.238	0.324	Bromide
5	6.95	1.678	0.265	Nitrate
6	9.84	53.635	OK 10.598	Sulfate
6	12.00	111.404	20.359	

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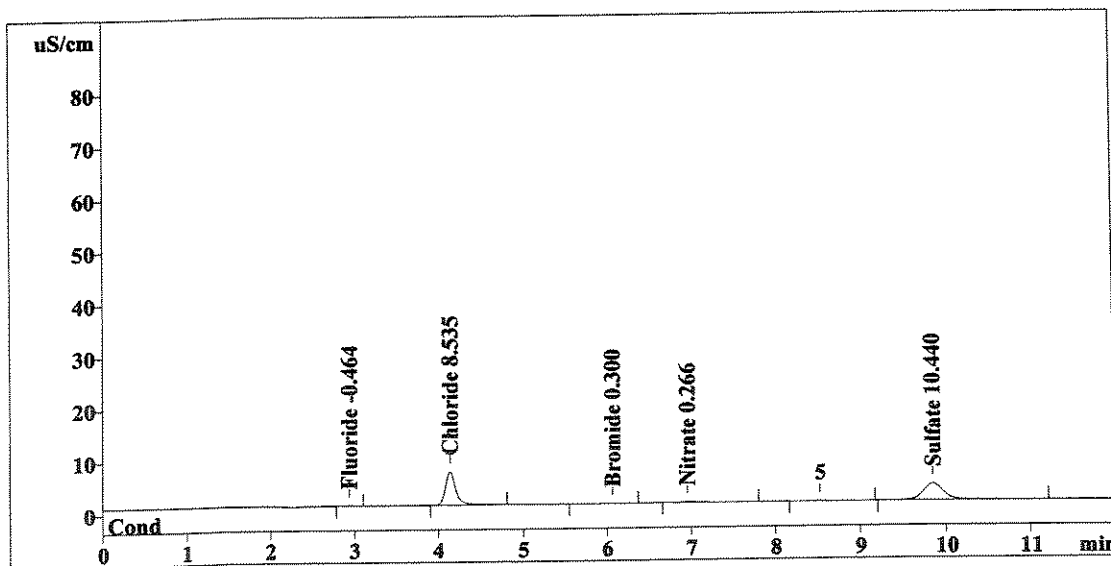
Method 300.0/9056

Report date: 6/19/2008 20:11:04
 Printed by: User
 Ident: 1109954 DUP
 Analysis from: 6/19/2008 19:59:06
 File: S6191959.CHW

Last save: 6/19/2008 20:11:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37233
 SAMPLE: S
 Vial number: 27
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.409	-0.464	Fluoride
2	4.14	54.307	8.535	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.06	0.170	0.300	Bromide
5	6.95	1.688	0.266	Nitrate
6	9.84	52.851	10.440	Sulfate
<hr/>				
6	12.00	109.426	20.005	

ok

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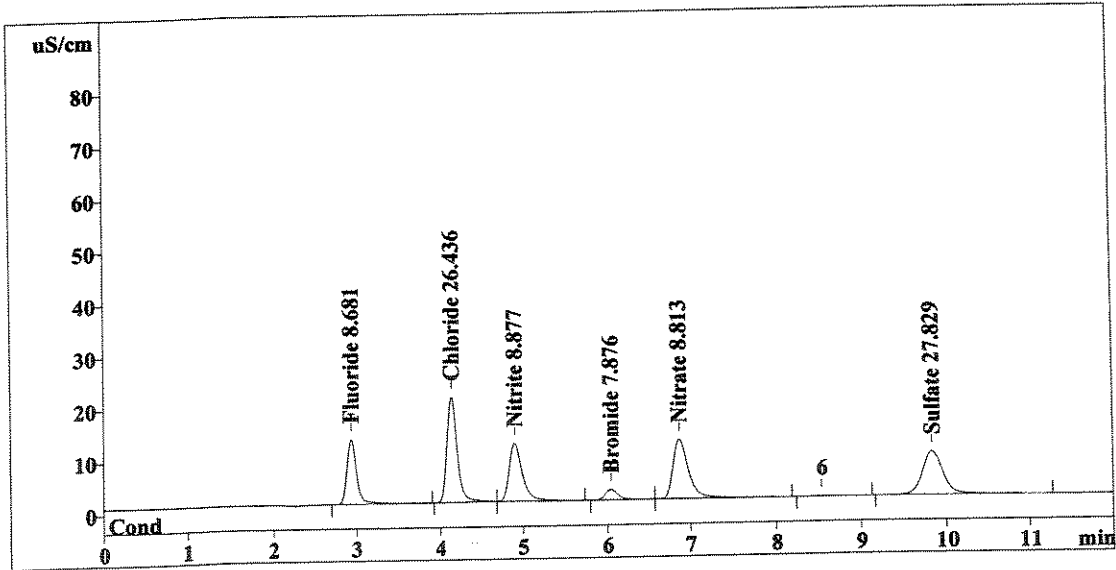
Method 300.0/9056

Report date: 6/19/2008 20:25:10
 Printed by: User
 Ident: 1109954 SPK
 Analysis from: 6/19/2008 20:13:12
 File: S6192013.CHW

Last save: 6/19/2008 20:25:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37234
 SAMPLE: S
 Vial number: 28
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	99.993	8.681	Fluoride
2	4.14	171.398	26.436	Chloride
3	4.90	121.338	8.877	Nitrite
4	6.04	21.588	7.876	Bromide
5	6.87	143.851	8.813	Nitrate
6	9.84	139.100	27.829	Sulfate
<hr/>			88.513	
6	12.00	697.267		

OK $\frac{10.598}{20} \times 100 = 52.99\%$

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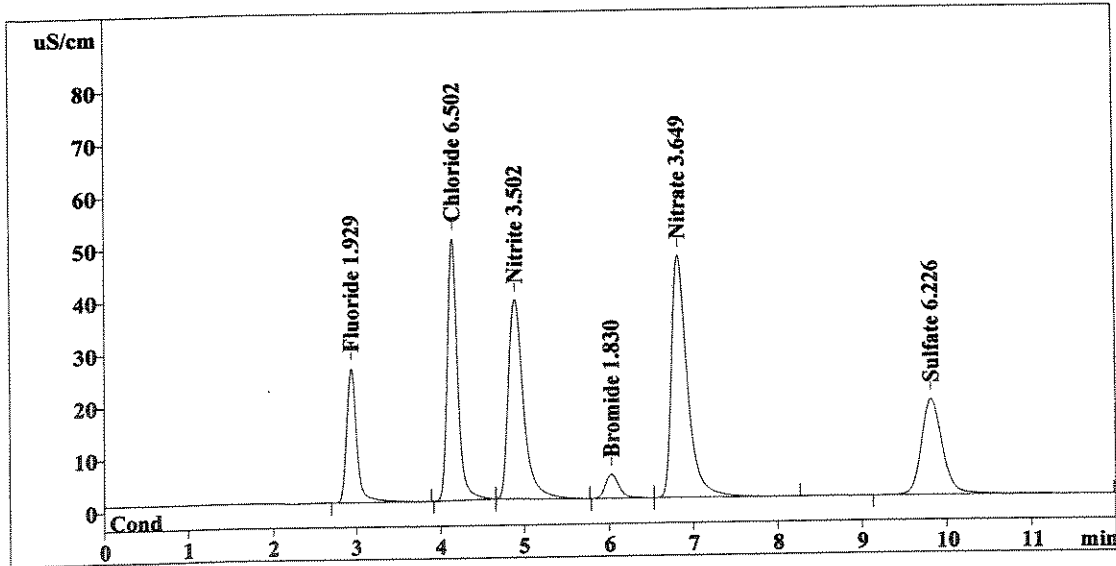
Method 300.0/9056

Report date: 6/19/2008 20:39:16
 Printed by: User
 Ident: CCV
 Analysis from: 6/19/2008 20:27:17
 File: S6192027.CHW

Last save: 6/19/2008 20:39:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37235
 SAMPLE:
 Vial number: 29
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	215.485	1.929	Fluoride
2	4.14	423.804	6.502	Chloride
3	4.89	476.602	3.502	Nitrite
4	6.03	51.065	1.830	Bromide
5	6.82	604.221	3.649	Nitrate
6	9.82	309.880	6.226	Sulfate
<hr/>			23.639	
6	12.00	2081.056		

OK
↓

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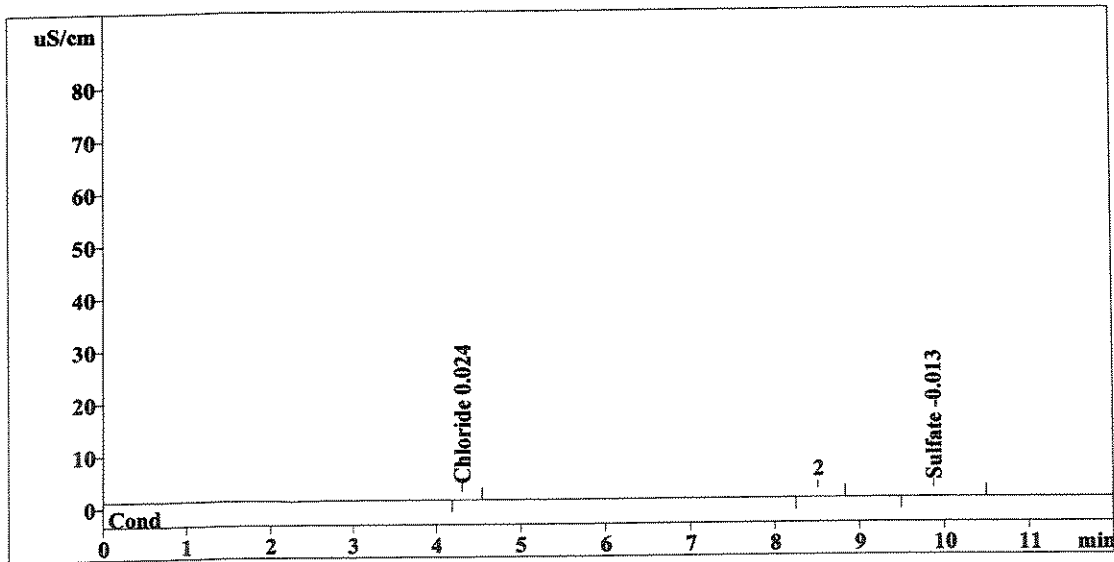
Method 300.0/9056

Report date: 6/19/2008 20:53:22
 Printed by: User
 Ident: CCB
 Analysis from: 6/19/2008 20:41:23
 File: S6192041.CHW

Last save: 6/19/2008 20:53:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37236
 SAMPLE:
 Vial number: 30
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.31	0.059	0.024	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	9.87	0.441	-0.013	Sulfate
6	12.00	0.499	0.037	

OK
↓

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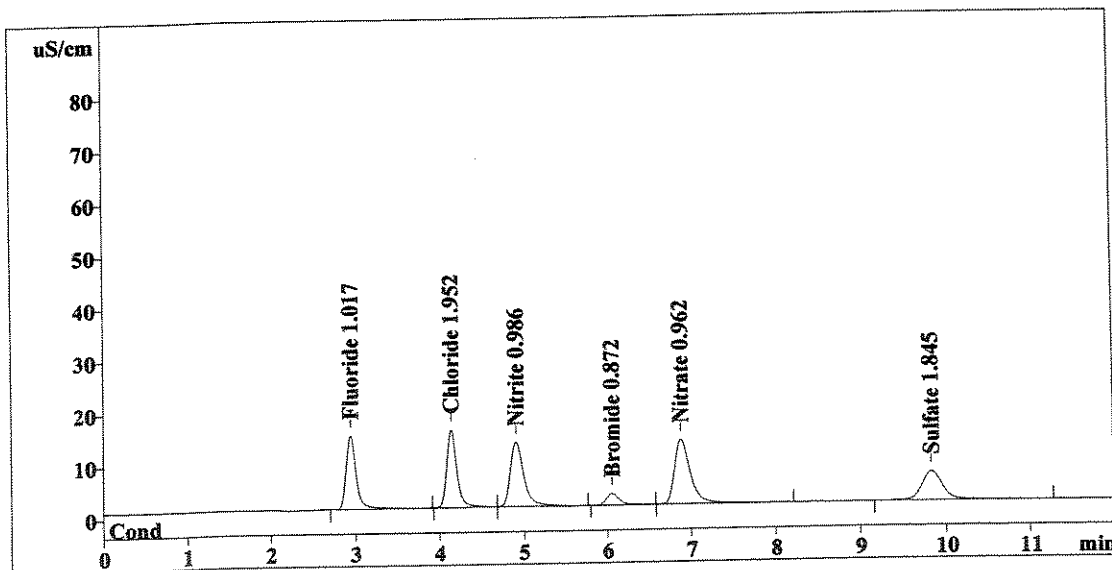
Method 300.0/9056

Report date: 6/19/2008 21:07:27
 Printed by: User
 Ident: LCS
 Analysis from: 6/19/2008 20:55:29
 File: S6192055.CHW

Last save: 6/19/2008 21:07:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37237
 SAMPLE:
 Vial number: 31
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	116.158	1.017	Fluoride
2	4.14	126.154	1.952	Chloride
3	4.90	134.723	0.986	Nitrite
4	6.06	23.980	0.872	Bromide
5	6.88	157.235	0.962	Nitrate
6	9.83	92.566	1.845	Sulfate
6	12.00	650.815	7.633	

OK
 ↓
 out low
 OK
 ↓

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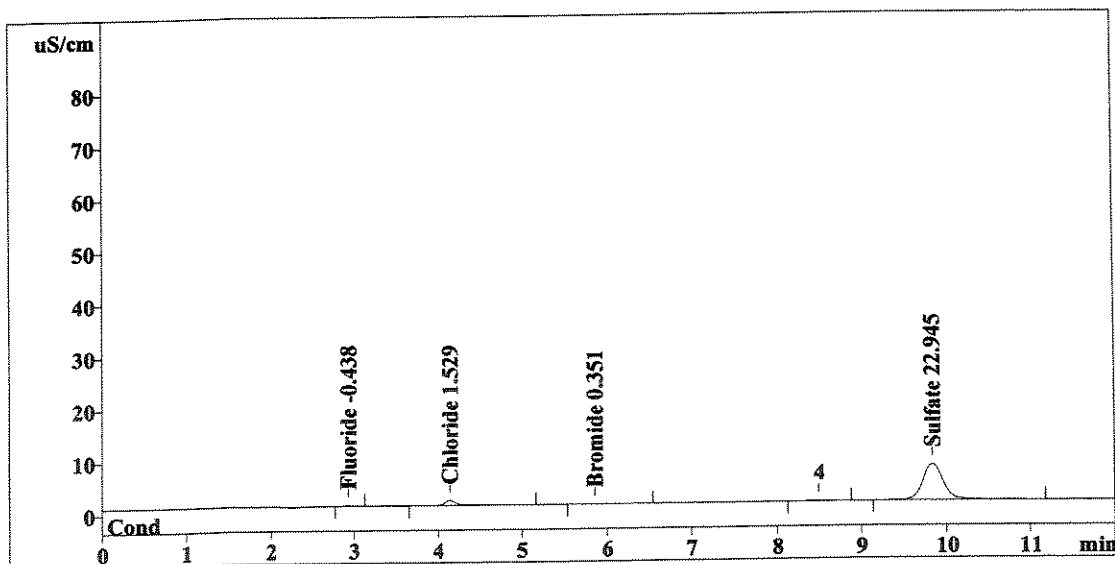
Ion Chromatography Analytical Report
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 Report date: 6/19/2008 21:21:33
 Printed by: User
 Ident: 1106779
 Analysis from: 6/19/2008 21:09:35
 File: S6192109.CHW

Method 300.0/9056

Last save: 6/19/2008 21:21:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37238
 SAMPLE: CNS
 Vial number: 32
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.700	-0.438	Fluoride
2	4.14	8.477	AL 1.529	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.85	0.314	0.351	Bromide
5	0.00	0.000	AL 0.000	Nitrate
6	9.84	114.873	AL 22.945	Sulfate
6	12.00	124.365	25.262	

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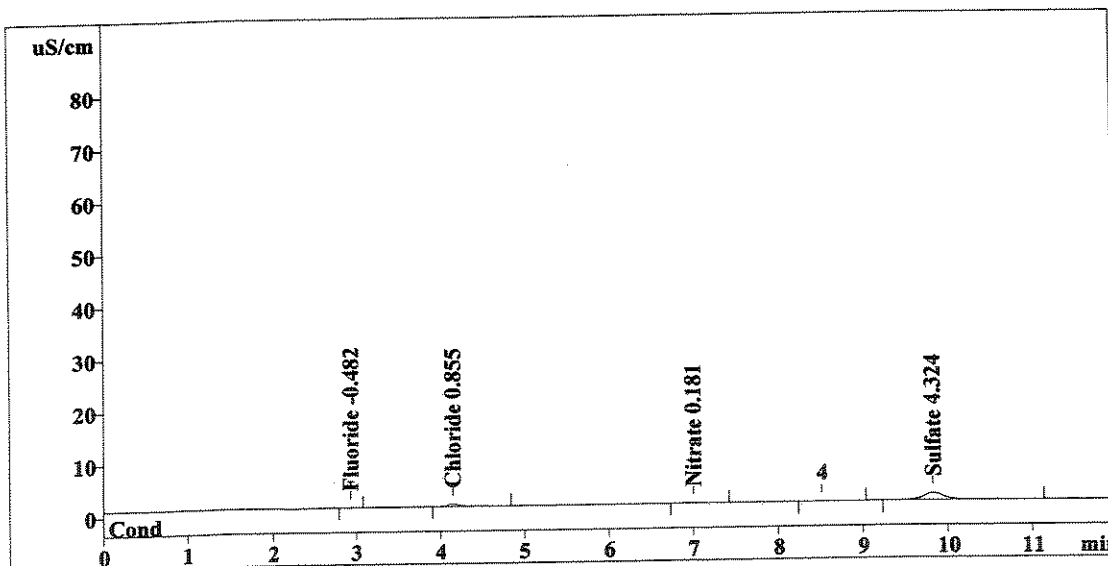
Method 300.0/9056

Report date: 6/19/2008 21:35:39
 Printed by: User
 Ident: 1106783
 Analysis from: 6/19/2008 21:23:41
 File: S6192123.CHW

Last save: 6/19/2008 21:35:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37239
 SAMPLE: CNS
 Vial number: 33
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.223	-0.482	Fluoride
2	4.15	4.073	OK 0.855	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.00	0.289	OK 0.181	Nitrate
6	9.83	22.514	OK 4.324	Sulfate
<hr/>				
6	12.00	27.100	5.842	

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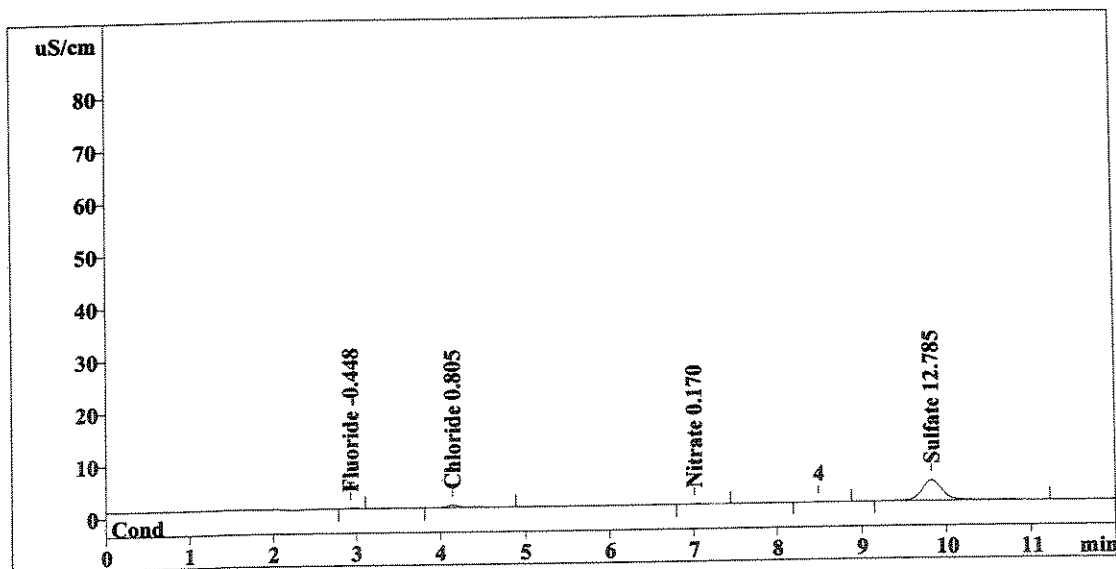
Method 300.0/9056

Report date: 6/19/2008 21:49:45
 Printed by: User
 Ident: 1106786
 Analysis from: 6/19/2008 21:37:47
 File: S6192137.CHW

Last save: 6/19/2008 21:49:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37240
 SAMPLE: CNS
 Vial number: 34
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.584	-0.448	Fluoride
2	4.15	3.744	0.805	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.02	0.104	0.170	Nitrate
6	9.83	64.481	12.785	Sulfate
<hr/>				
6	12.00	68.912	14.208	

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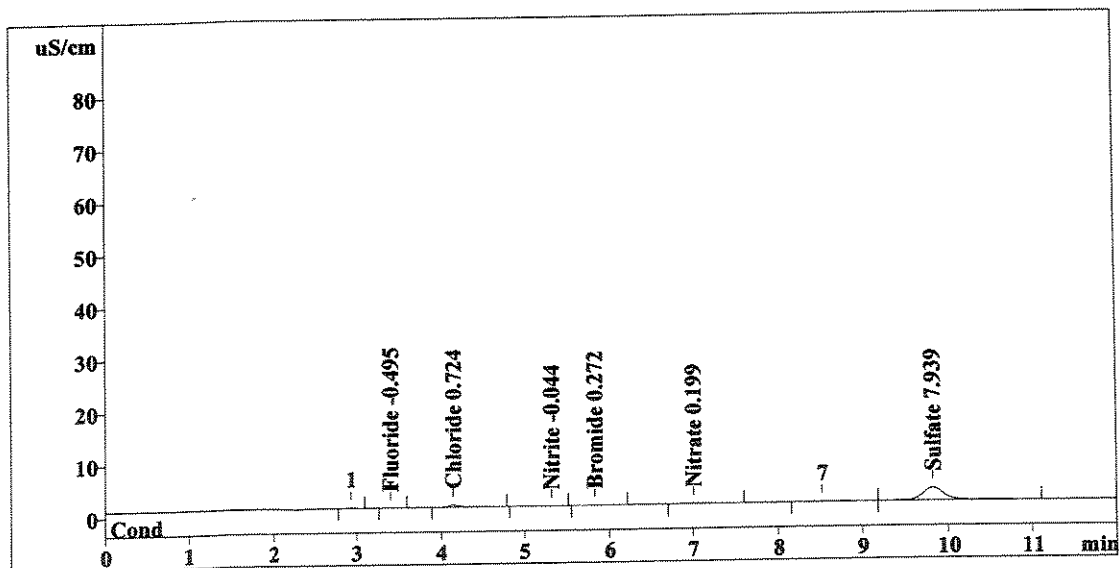
Method 300.0/9056

Report date: 6/19/2008 22:03:50
 Printed by: User
 Ident: 1106790
 Analysis from: 6/19/2008 21:51:53
 File: S6192151.CHW

Last save: 6/19/2008 22:03:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37241
 SAMPLE: CNS
 Vial number: 35
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	0.073	-0.495	Fluoride
2	4.15	3.212	OK 0.724	Chloride
3	5.32	0.128	-0.044	Nitrite
4	5.83	0.090	0.272	Bromide
5	7.01	0.576	OK 0.199	Nitrate
6	9.82	40.449	OK 7.939	Sulfate
<hr/>			9.673	
6	12.00	44.527		

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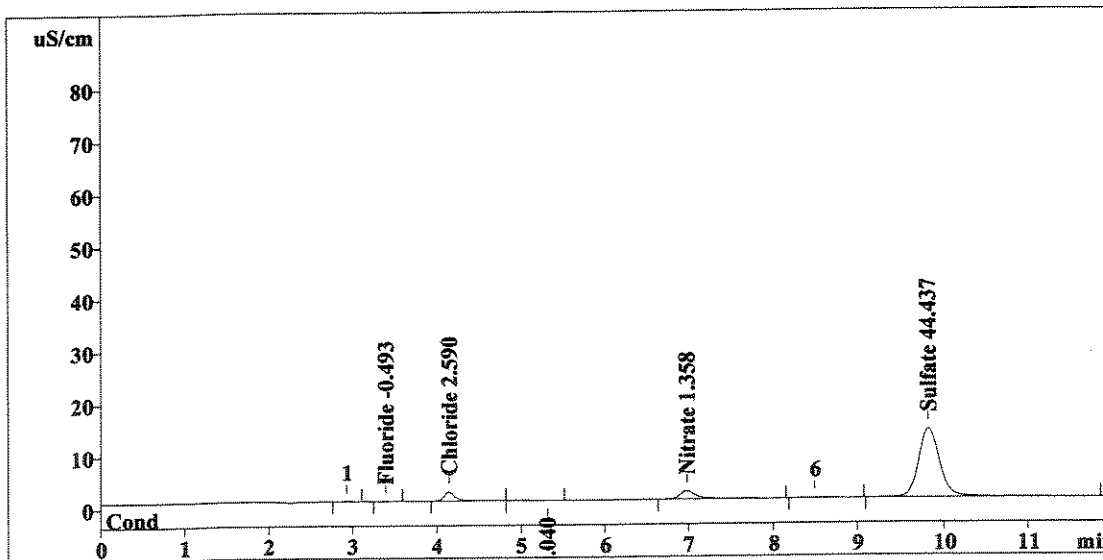
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Report date: 6/19/2008 22:17:57
 Printed by: User
 Ident: 1106791
 Analysis from: 6/19/2008 22:05:58
 File: S6192205.CHW

Last save: 6/19/2008 22:18:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37242
 SAMPLE: CNS
 Vial number: 36
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	0.094	-0.493	Fluoride
2	4.15	15.420	OK 2.590	Chloride
3	5.31	0.178	-0.040	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.98	19.860	OK 1.358	Nitrate
6	9.83	221.476	OK 44.437	Sulfate
6	12.00	257.028	48.919	

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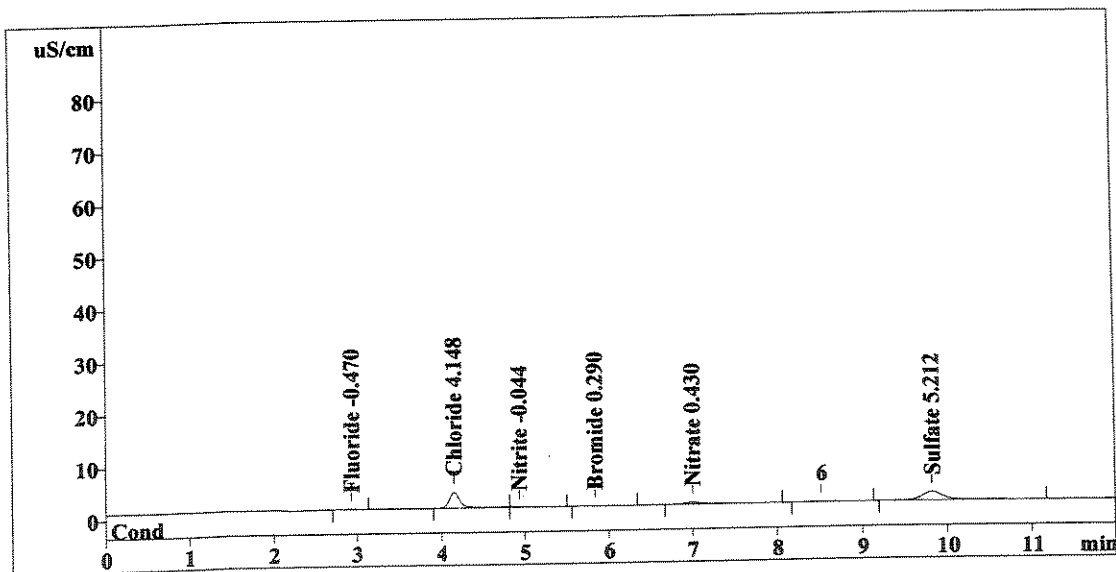
Method 300.0/9056

Report date: 6/19/2008 22:32:02
 Printed by: User
 Ident: 1110020
 Analysis from: 6/19/2008 22:20:04
 File: S6192220.CHW

Last save: 6/19/2008 22:32:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37243
 SAMPLE: CS
 Vial number: 37
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.343	-0.470	Fluoride
2	4.15	25.614	OK 4.148	Chloride
3	4.94	0.125	-0.044	Nitrite
4	5.86	0.142	0.290	Bromide
5	7.00	4.427	0.430	Nitrate
6	9.82	26.923	OK 5.212	Sulfate
<hr/>				
6	12.00	57.574	10.596	

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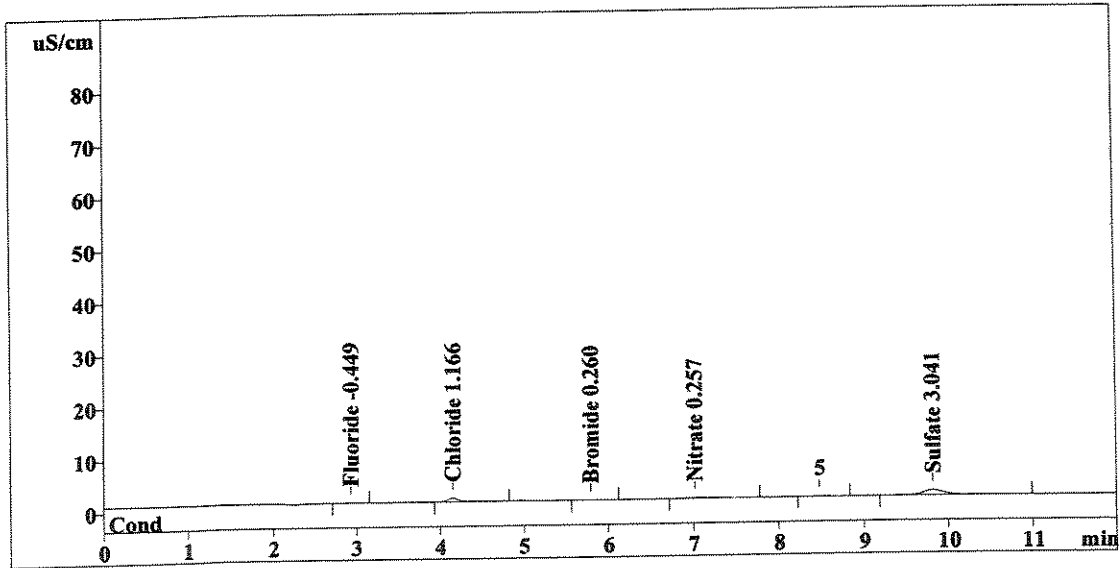
Method 300.0/9056

Report date: 6/19/2008 22:46:08
 Printed by: User
 Ident: 1110021
 Analysis from: 6/19/2008 22:34:10
 File: S6192234.CHW

Last save: 6/19/2008 22:46:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37244
 SAMPLE: CS
 Vial number: 38
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.581	-0.449	Fluoride
2	4.15	6.104	OK 1.166	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.80	0.058	0.260	Bromide
5	7.01	1.540	0.257	Nitrate
6	9.82	16.154	OK 3.041	Sulfate
6	12.00	24.437	5.173	

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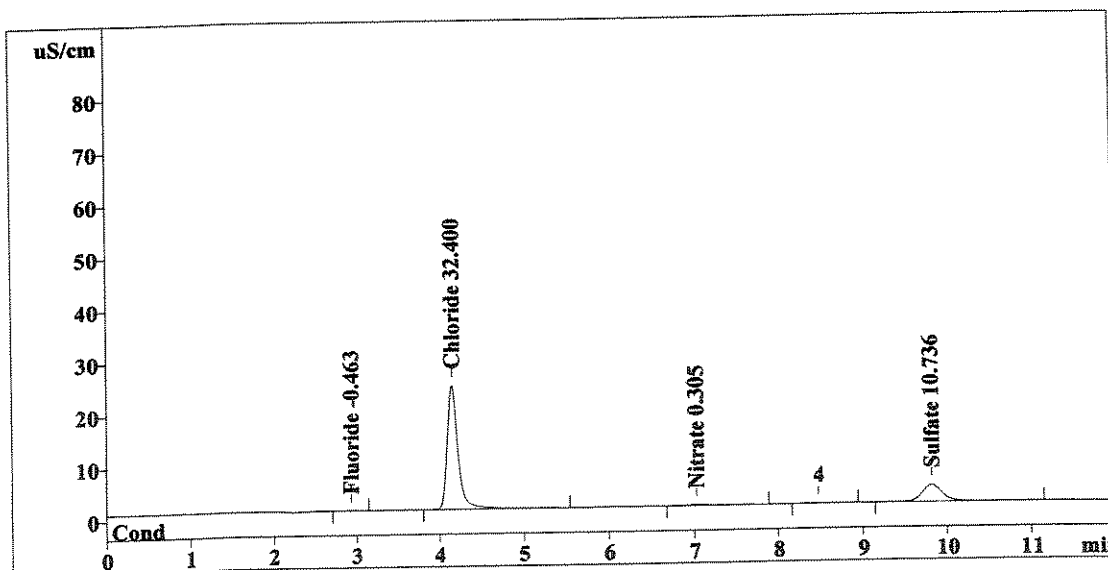
Method 300.0/9056

Report date: 6/19/2008 23:00:14
 Printed by: User
 Ident: 1110022
 Analysis from: 6/19/2008 22:48:16
 File: S6192248.CHW

Last save: 6/19/2008 23:00:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37245
 SAMPLE: CS
 Vial number: 39
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.424	-0.463	Fluoride
2	4.15	210.406	<i>OL</i> 32.400	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.02	2.345	0.305	Nitrate
6	9.82	54.322	<i>OL</i> 10.736	Sulfate
6	12.00	267.497	43.905	

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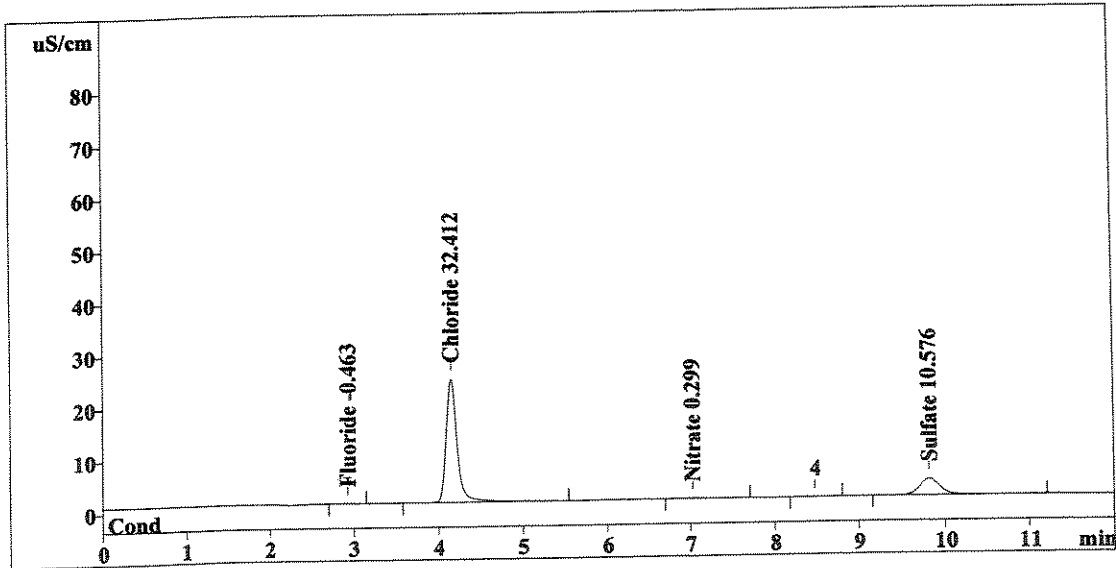
Method 300.0/9056

Report date: 6/19/2008 23:14:26
 Printed by: User
 Ident: 1110022 DUP
 Analysis from: 6/19/2008 23:02:23
 File: S6192302.CHW

Last save: 6/19/2008 23:14:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37246
 SAMPLE: CS
 Vial number: 40
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.424	-0.463	Fluoride
2	4.15	210.482	OK 32.412	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.03	2.250	0.299	Nitrate
6	9.82	53.527	OK 10.576	Sulfate
<hr/>				
6	12.00	266.683	43.750	

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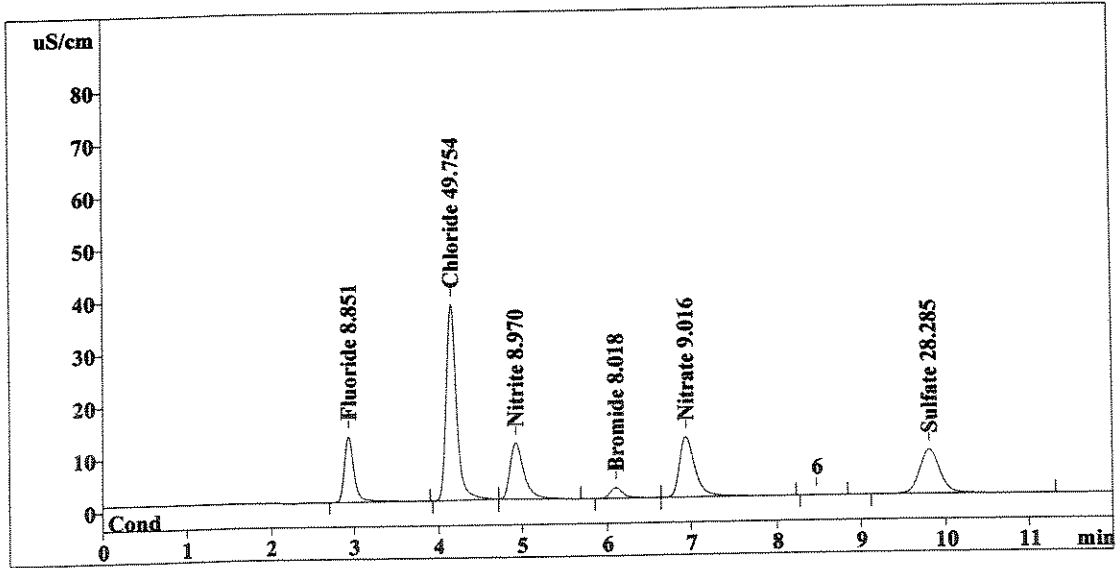
Method 300.0/9056

Report date: 6/19/2008 23:28:32
 Printed by: User
 Ident: 1110022 SPK
 Analysis from: 6/19/2008 23:16:34
 File: S6192316.CHW

Last save: 6/19/2008 23:28:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37247
 SAMPLE: CS
 Vial number: 41
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	101.842	8.851	Fluoride
2	4.15	323.918	OK 49.754	Chloride
3	4.92	122.598	8.970	Nitrite
4	6.10	21.991	8.018	Bromide
5	6.94	147.225	9.016	Nitrate
6	9.81	141.361	OK 28.285	Sulfate
<hr/>				
6	12.00	858.935	112.894	

Handwritten calculations:
 Chloride: $\frac{32.400}{20} \times 100 = 86.8\%$
 Sulfate: $\frac{10.736}{20} \times 100 = 87.7\%$

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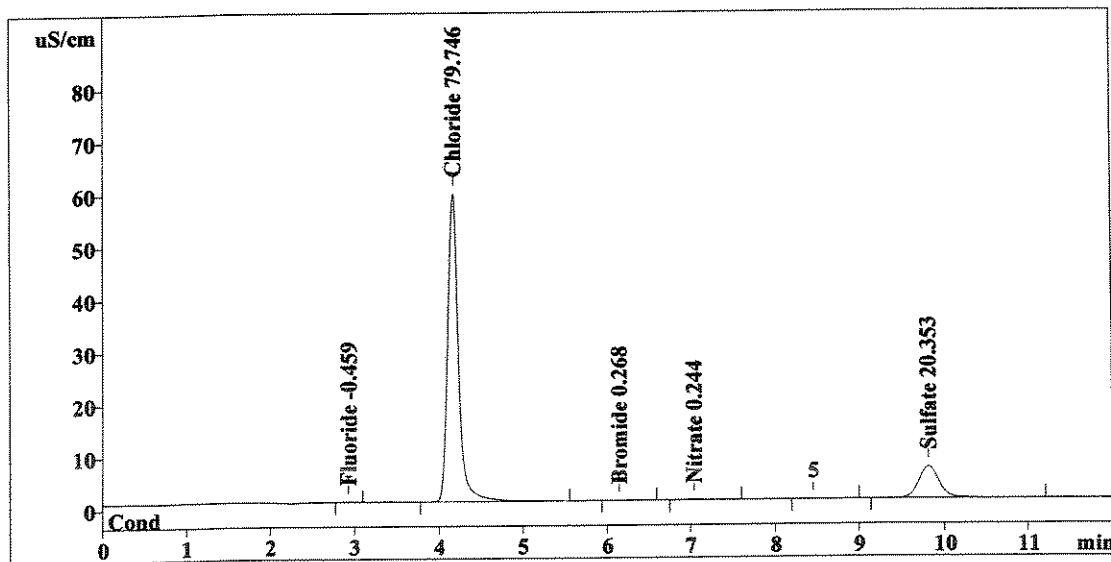
Method 300.0/9056

Report date: 6/19/2008 23:42:38
 Printed by: User
 Ident: 1110322
 Analysis from: 6/19/2008 23:30:40
 File: S6192330.CHW

Last save: 6/19/2008 23:42:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37248
 SAMPLE: CS
 Vial number: 42
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.469	-0.459	Fluoride
2	4.16	520.095	DL 79.746	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.15	0.080	0.268	Bromide
5	7.04	1.327	0.244	Nitrate
6	9.81	102.019	DL 20.353	Sulfate
6	12.00	623.990	101.070	

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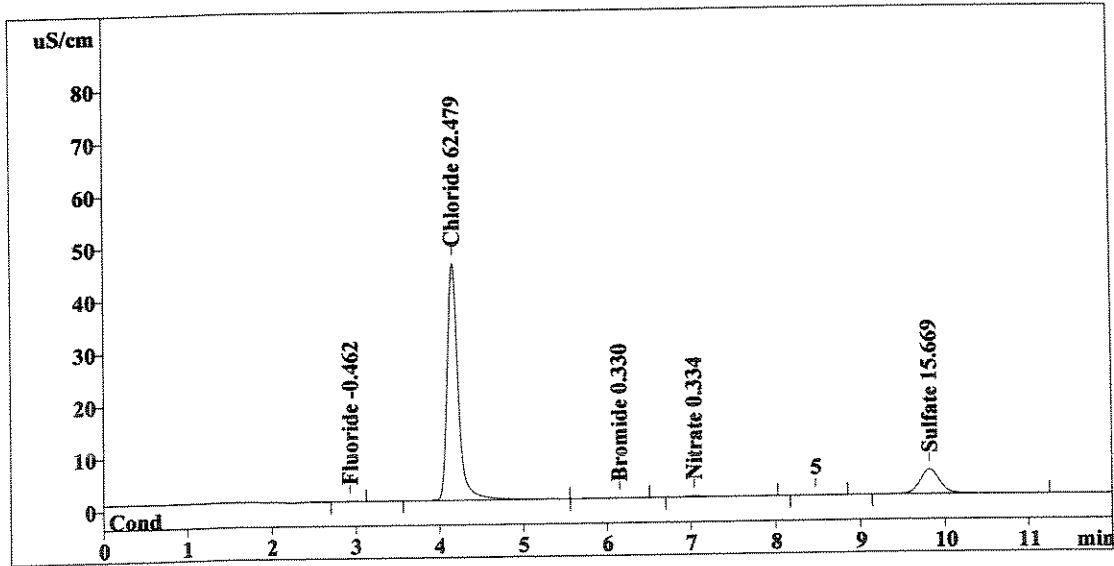
Method 300.0/9056

Report date: 6/19/2008 23:56:44
 Printed by: User
 Ident: 1110323
 Analysis from: 6/19/2008 23:44:46
 File: S6192344.CHW

Last save: 6/19/2008 23:56:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37249
 SAMPLE: CS
 Vial number: 43
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.432	-0.462	Fluoride
2	4.15	407.151	OK 62.479	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.15	0.254	0.330	Bromide
5	7.04	2.824	0.334	Nitrate
6	9.81	78.785	OK 15.669	Sulfate
<hr/>			79.273	
6	12.00	489.445		

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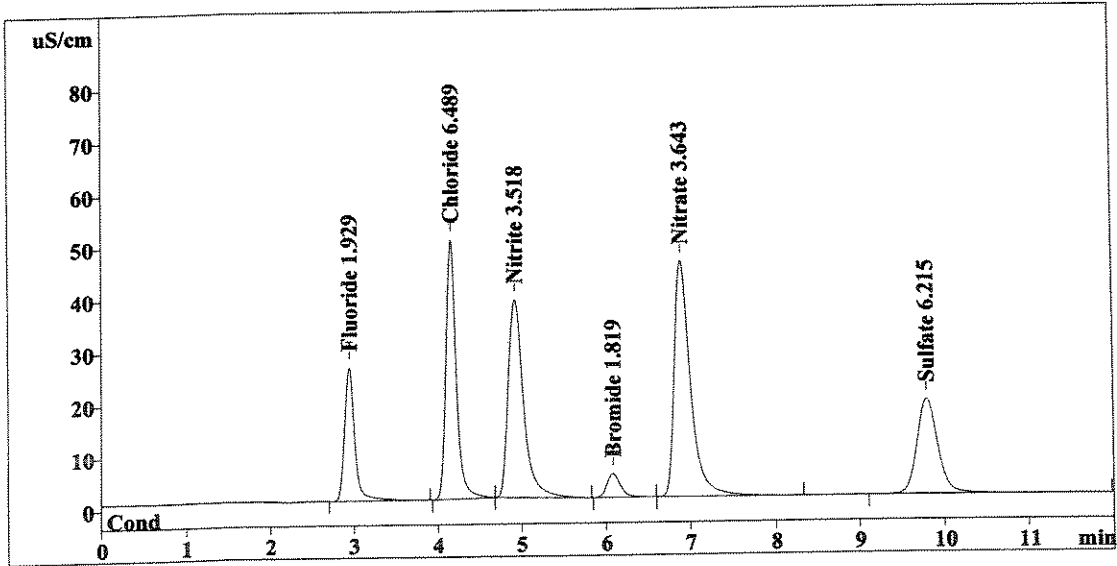
Method 300.0/9056

Report date: 6/20/2008 00:10:50
 Printed by: User
 Ident: CCV
 Analysis from: 6/19/2008 23:58:52
 File: S6192358.CHW

Last save: 6/20/2008 00:10:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37250
 SAMPLE:
 Vial number: 44
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	215.536	1.929	Fluoride
2	4.15	422.915	6.489	Chloride
3	4.91	478.671	3.518	Nitrite
4	6.08	50.742	1.819	Bromide
5	6.89	603.134	3.643	Nitrate
6	9.79	309.322	6.215	Sulfate
<hr/>				
6	12.00	2080.320	23.612	

OK
↓

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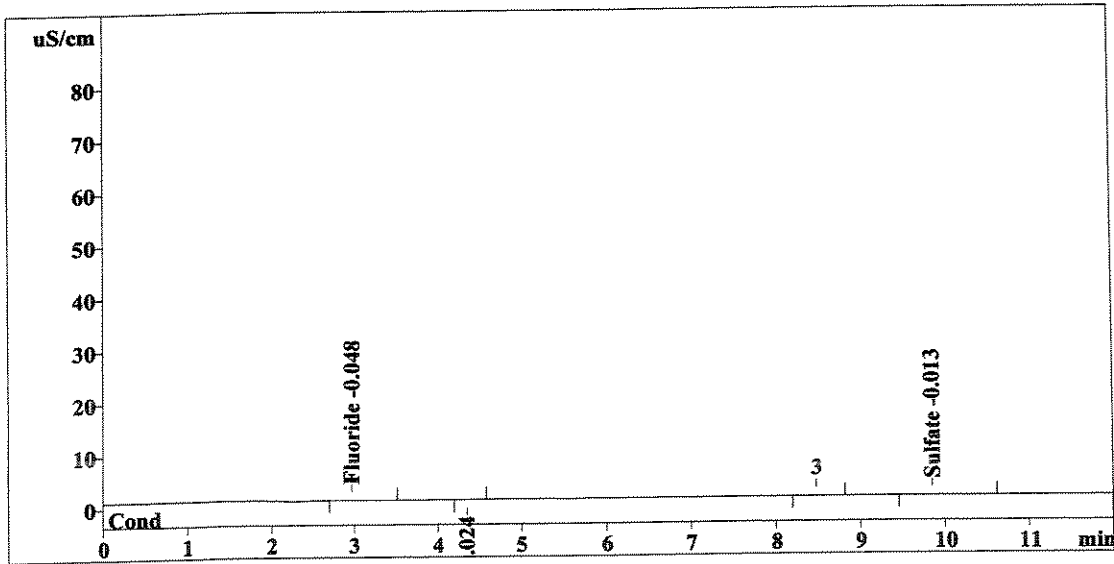
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/20/2008 00:24:56
 Printed by: User
 Ident: CCB
 Analysis from: 6/20/2008 00:12:58
 File: S6200012.CHW

Method 300.0/9056

Last save: 6/20/2008 00:24:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37251
 SAMPLE:
 Vial number: 45
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	0.263	-0.048	Fluoride
2	4.34	0.059	0.024	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	9.84	0.444	-0.013	Sulfate
6	12.00	0.766	0.085	

OK ↓

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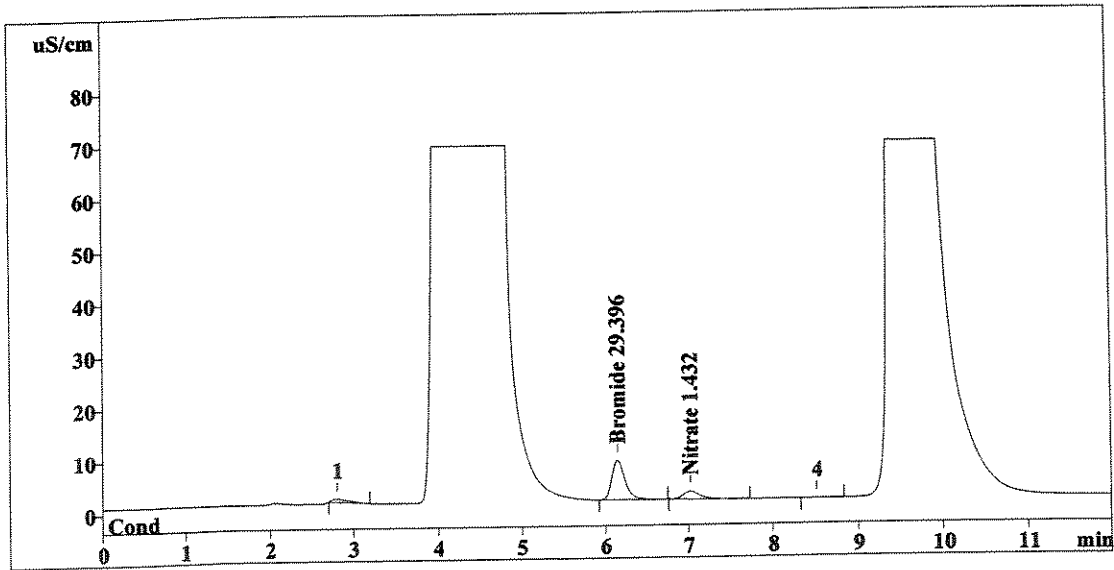
Method 300.0/9056

Report date: 6/20/2008 00:39:02
 Printed by: User
 Ident: 1110532
 Analysis from: 6/20/2008 00:27:04
 File: S6200027.CHW

Last save: 6/20/2008 00:39:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37252
 SAMPLE: CNS, NO₂
 Vial number: 145
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



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	6.15	82.431	29.396	Bromide
5	7.02	21.096	1.432	Nitrate
6	0.00	0.000	0.000	Sulfate
6		12.00	103.527	30.829

Handwritten notes in table:
 1/1000 (next to 0.000)
 OK (next to 0.000)
 OK (next to 1.432)
 1/1000 (next to 0.000)

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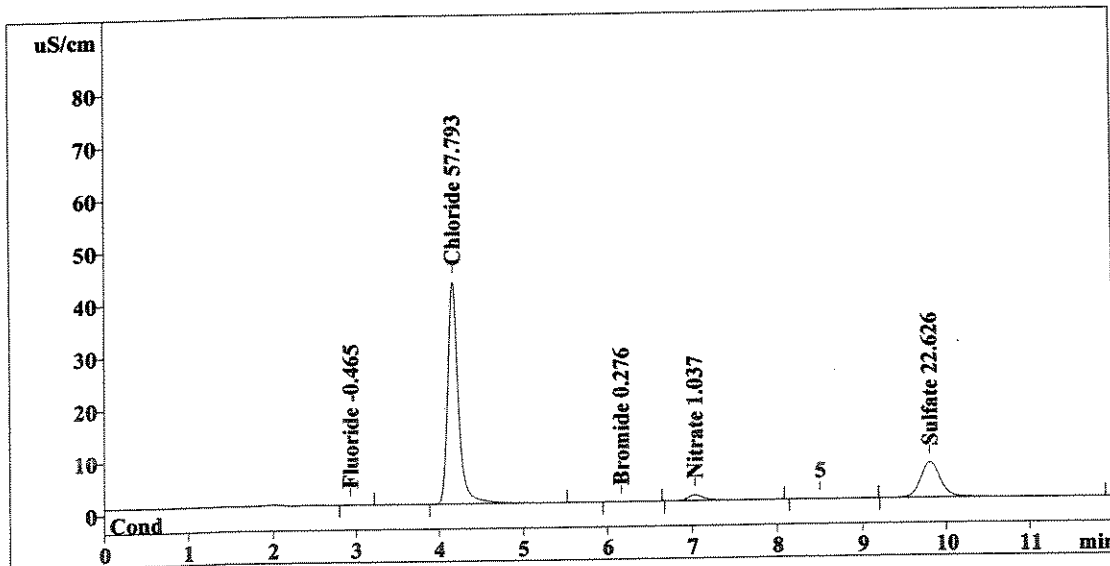
Method 300.0/9056

Report date: 6/20/2008 00:53:08
 Printed by: User
 Ident: 1110324
 Analysis from: 6/20/2008 00:41:10
 File: S6200041.CHW

Last save: 6/20/2008 00:53:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37253
 SAMPLE: CS
 Vial number: 47
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.399	-0.465	Fluoride
2	4.16	376.498	57.793	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.17	0.103	0.276	Bromide
5	7.03	14.512	1.037	Nitrate
6	9.81	113.294	22.626	Sulfate
<hr/>				
6	12.00	504.807	82.197	

OK No OK
next con failed

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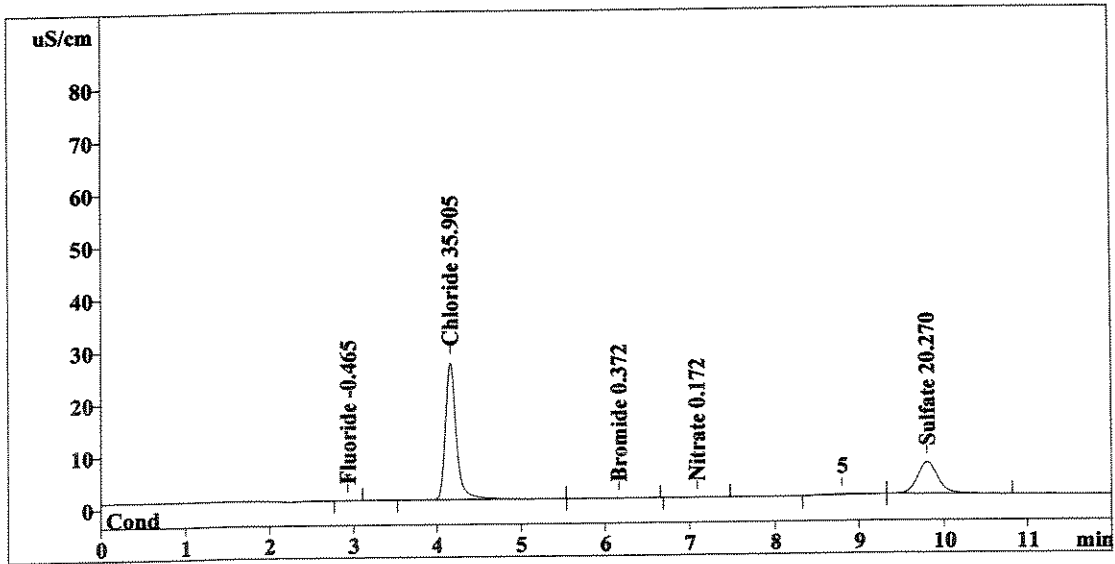
Method 300.0/9056

Report date: 6/20/2008 01:07:13
 Printed by: User
 Ident: 1110325
 Analysis from: 6/20/2008 00:55:15
 File: S6200055.CHW

Last save: 6/20/2008 01:07:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37254
 SAMPLE: CS
 Vial number: 48
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.397	-0.465	Fluoride
2	4.16	233.329	OK 35.905	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.16	0.373	0.372	Bromide
5	7.09	0.124	0.172	Nitrate
6	9.80	101.608	OK 20.270	Sulfate
<hr/>				
6	12.00	335.829	57.183	

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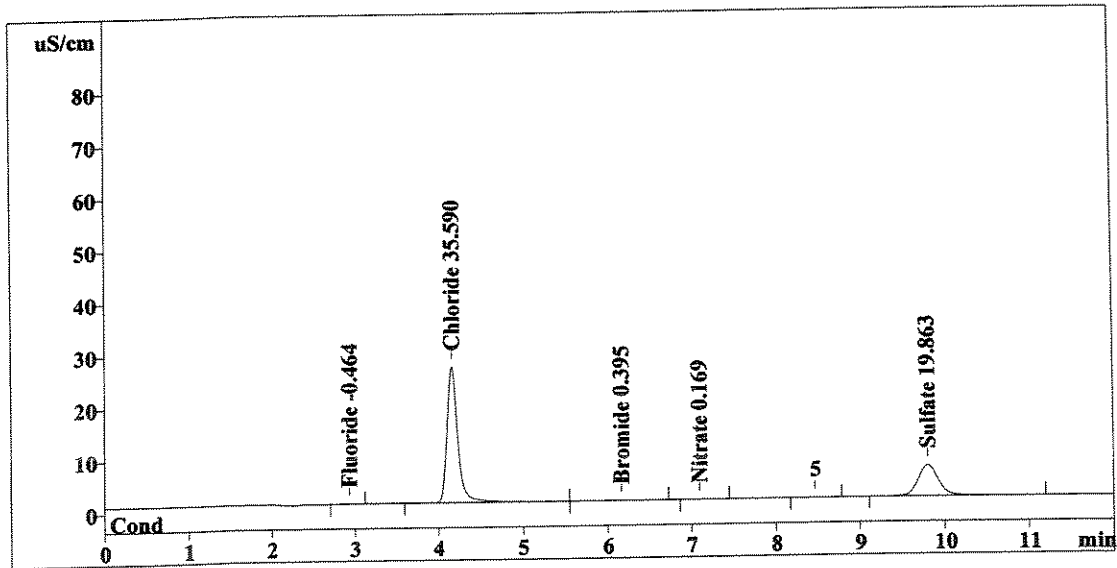
Method 300.0/9056

Report date: 6/20/2008 01:21:19
 Printed by: User
 Ident: 1110325 DUP
 Analysis from: 6/20/2008 01:09:21
 File: S6200109.CHW

Last save: 6/20/2008 01:21:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37255
 SAMPLE: CS
 Vial number: 49
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.416	-0.464	Fluoride
2	4.16	231.273	OK 35.590	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.17	0.438	0.395	Bromide
5	7.10	0.087	0.169	Nitrate
6	9.80	99.588	OK 19.863	Sulfate
6	12.00	331.804	56.481	

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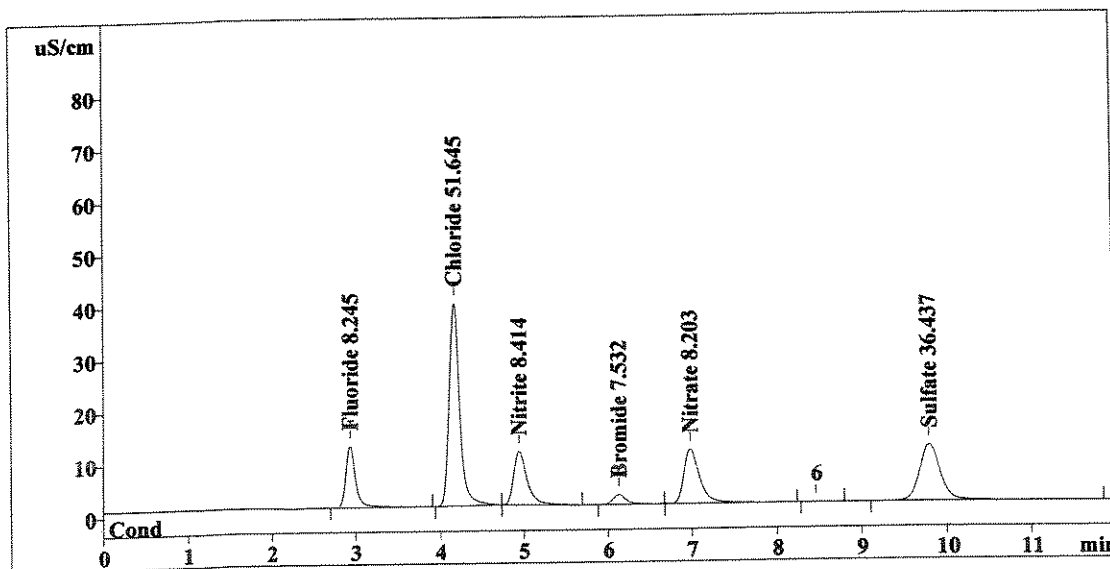
Method 300.0/9056

Report date: 6/20/2008 01:35:25
 Printed by: User
 Ident: 1110325 SPK
 Analysis from: 6/20/2008 01:23:27
 File: S6200123.CHW

Last save: 6/20/2008 01:35:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37256
 SAMPLE: CS
 Vial number: 50
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	95.246	8.245	Fluoride
2	4.16	336.288	51.645	Chloride
3	4.94	115.043	8.414	Nitrite
4	6.13	20.617	7.532	Bromide
5	6.98	133.714	8.203	Nitrate
6	9.79	181.793	36.437	Sulfate
<hr/>				
6	12.00	882.701	120.477	

Handwritten calculations:
 Chloride: $\frac{35.905}{20} \times 100 = 78.7\%$
 Sulfate: $\frac{20.270}{20} \times 100 = 80.8\%$

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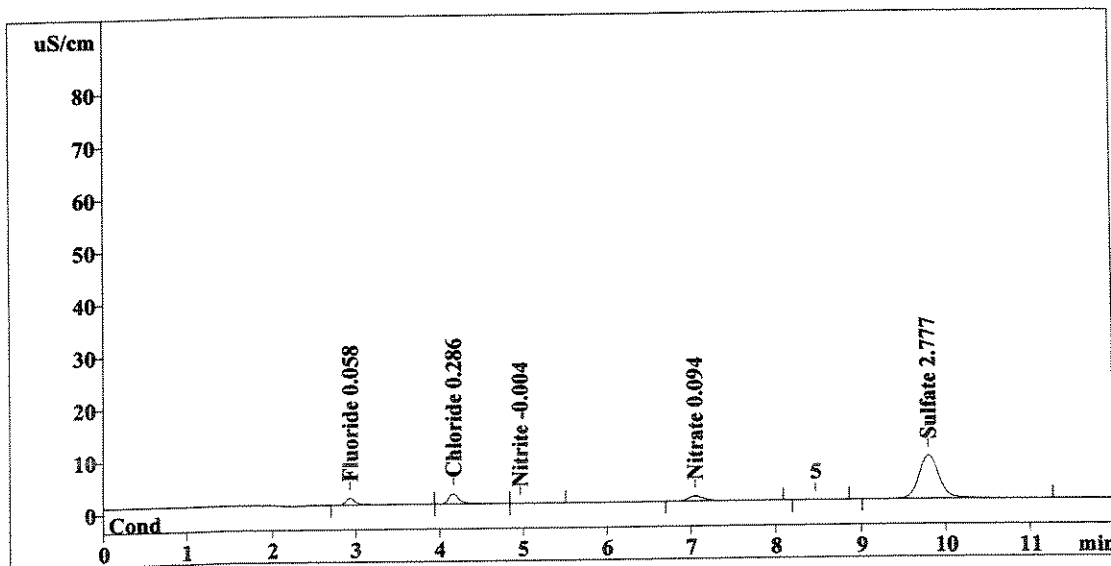
Method 300.0/9056

Report date: 6/20/2008 01:49:31
 Printed by: User
 Ident: 1110018
 Analysis from: 6/20/2008 01:37:33
 File: S6200137.CHW

Last save: 6/20/2008 01:49:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37257
 SAMPLE: F
 Vial number: 51
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	11.767	0.058	Fluoride
2	4.16	17.176	0.286	Chloride
3	4.96	0.137	-0.004	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.05	12.848	0.094	Nitrate
6	9.80	138.805	2.777	Sulfate
6	12.00	180.734	3.219	

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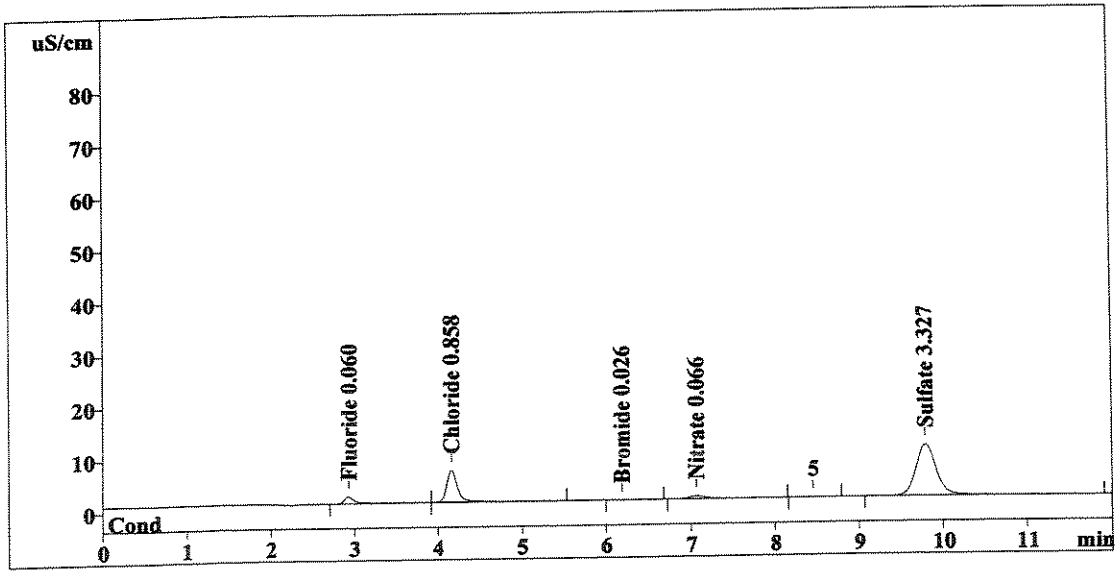
Method 300.0/9056

Report date: 6/20/2008 02:03:37
 Printed by: User
 Ident: 1110019
 Analysis from: 6/20/2008 01:51:39
 File: S6200151.CHW

Last save: 6/20/2008 02:03:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37258
 SAMPLE: F
 Vial number: 52
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	11.972	0.060	Fluoride
2	4.16	54.596	0.858	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.19	0.062	0.026	Bromide
5	7.06	8.187	0.066	Nitrate
6	9.79	166.090	3.327	Sulfate
6	12.00	240.908	4.337	

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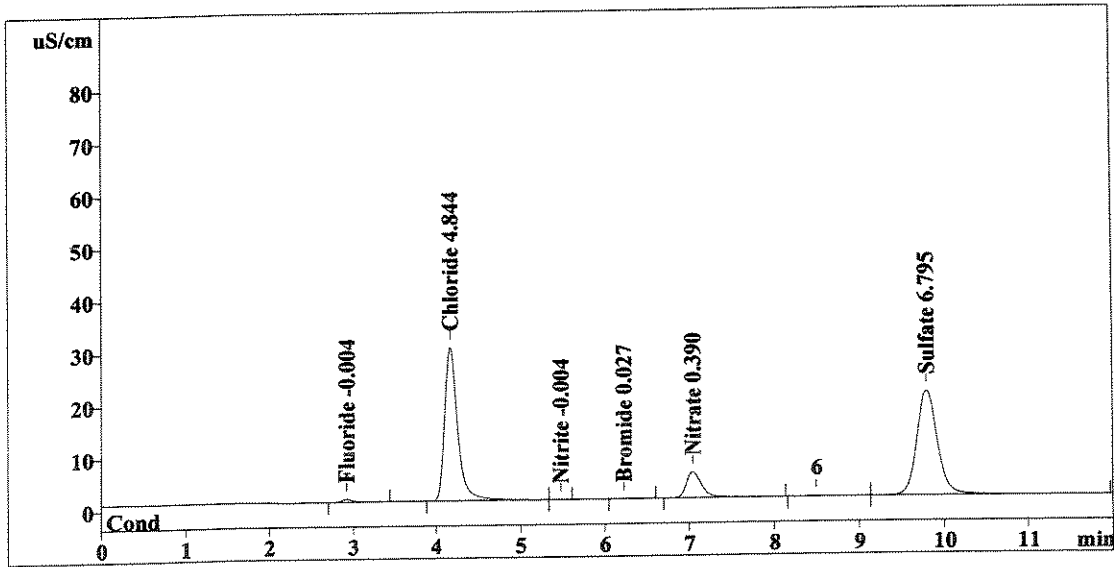
Method 300.0/9056

Report date: 6/20/2008 02:17:42
 Printed by: User
 Ident: 1110020
 Analysis from: 6/20/2008 02:05:44
 File: S6200205.CHW

Last save: 6/20/2008 02:17:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37259
 SAMPLE: F
 Vial number: 53
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	4.999	<i>DL</i> -0.004	Fluoride
2	4.17	315.327	4.844	Chloride
3	5.48	0.227	-0.004	Nitrite
4	6.23	0.098	0.027	Bromide
5	7.04	62.178	0.390	Nitrate
6	9.80	338.085	6.795	Sulfate
6	12.00	720.915	12.064	

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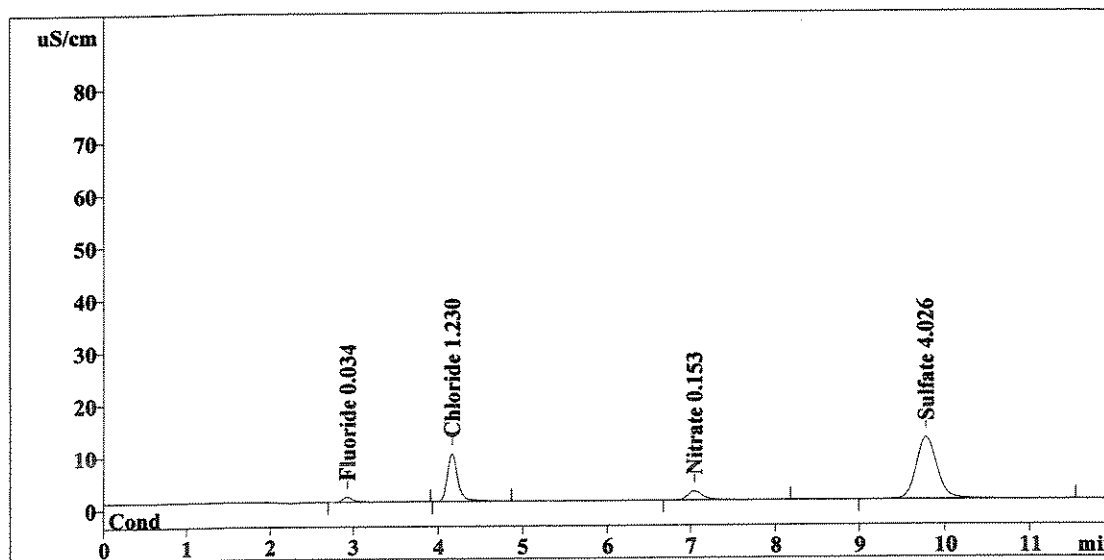
Method 300.0/9056

Report date: 6/20/2008 02:31:48
 Printed by: User
 Ident: 1110021
 Analysis from: 6/20/2008 02:19:50
 File: S6200219.CHW

Last save: 6/20/2008 02:31:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37260
 SAMPLE: F
 Vial number: 54
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	9.181	0.034	Fluoride
2	4.16	78.943	1.230	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.04	22.723	0.153	Nitrate
6	9.78	200.757	4.026	Sulfate
6	12.00	311.604	5.443	

ok

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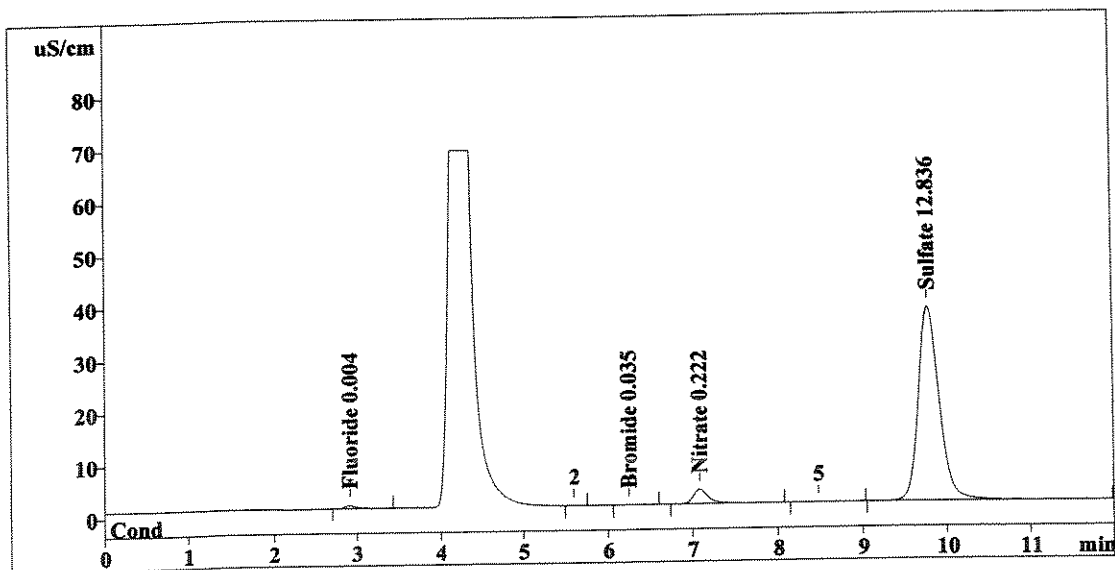
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/20/2008 02:45:54
 Printed by: User
 Ident: 1110022
 Analysis from: 6/20/2008 02:33:56
 File: S6200233.CHW

Method 300.0/9056

Last save: 6/20/2008 02:45:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37261
 SAMPLE: F
 Vial number: 55
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	5.903	0.004	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.25	0.302	0.035	Bromide
5	7.08	34.272	0.222	Nitrate
6	9.79	637.713	12.836	Sulfate
<hr/>				
6	12.00	678.189	13.097	

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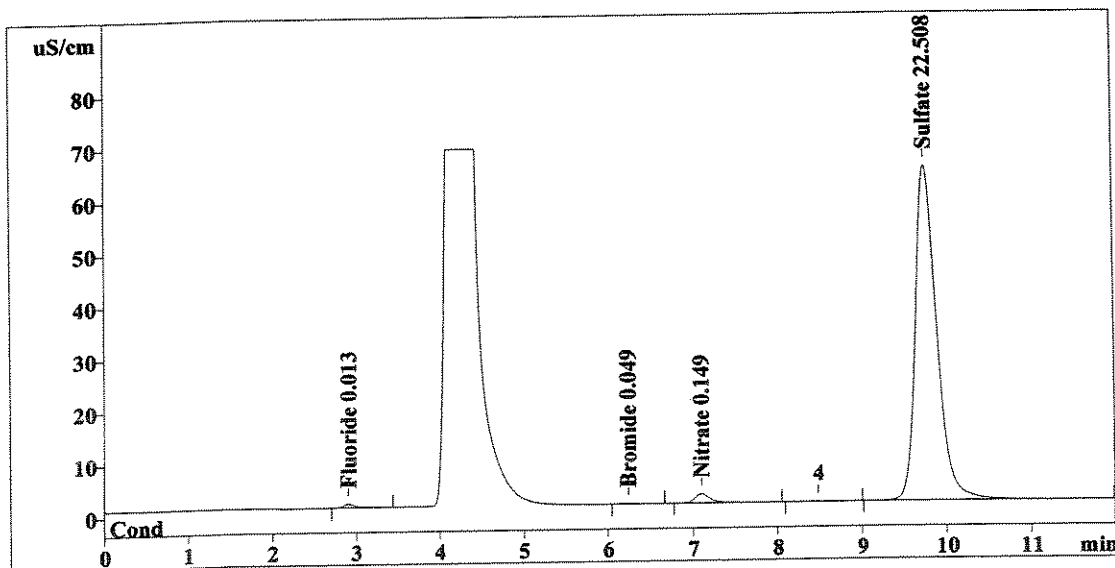
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/20/2008 03:00:00
 Printed by: User
 Ident: 1110322
 Analysis from: 6/20/2008 02:48:02
 File: S6200248.CHW

Method 300.0/9056

Last save: 6/20/2008 03:00:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37262
 SAMPLE: F
 Vial number: 56
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	6.856	0.013	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.24	0.710	0.049	Bromide
5	7.10	22.021	0.149	Nitrate
6	9.77	1117.433	22.508	Sulfate
6	12.00	1147.020	22.718	

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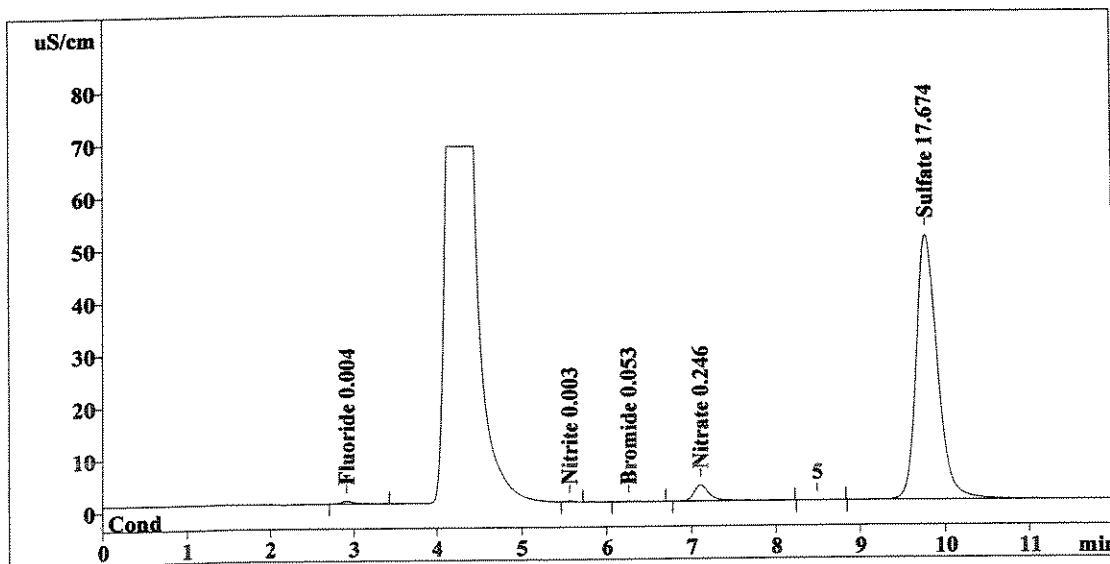
Method 300.0/9056

Report date: 6/20/2008 03:14:06
 Printed by: User
 Ident: 1110323
 Analysis from: 6/20/2008 03:02:08
 File: S6200302.CHW

Last save: 6/20/2008 03:14:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37263
 SAMPLE: F
 Vial number: 57
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	5.950	0.004	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.56	1.148	0.003	Nitrite
4	6.26	0.830	0.053	Bromide
5	7.10	38.169	0.246	Nitrate
6	9.79	877.688	17.674	Sulfate
6	12.00	923.786	17.981	

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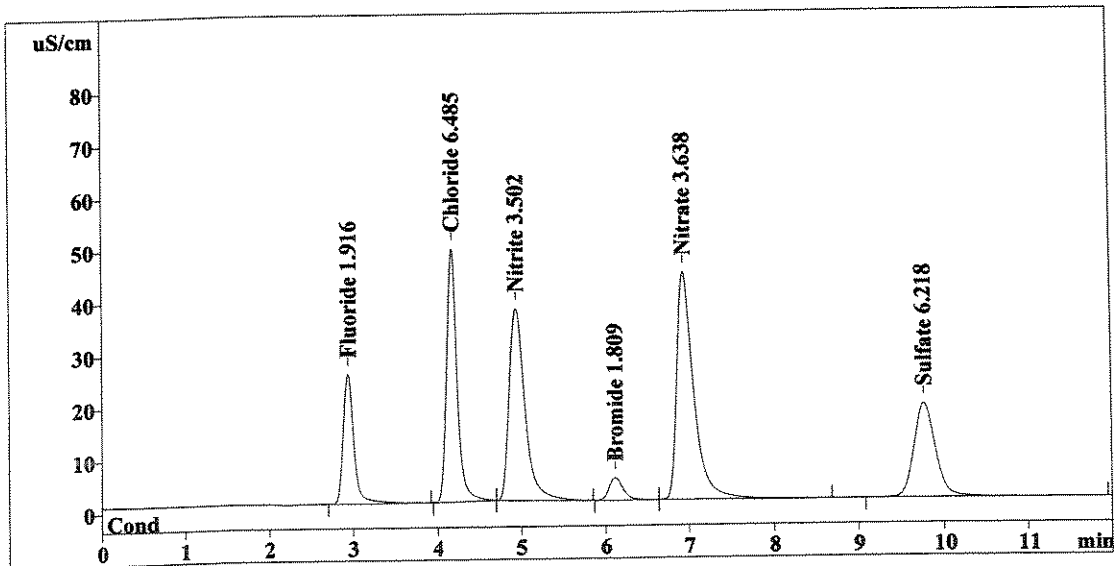
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/20/2008 03:28:12
 Printed by: User
 Ident: CCV
 Analysis from: 6/20/2008 03:16:14
 File: S6200316.CHW

Method 300.0/9056

Last save: 6/20/2008 03:28:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37264
 SAMPLE:
 Vial number: 58
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	214.137	1.916	Fluoride
2	4.16	422.633	6.485	Chloride
3	4.93	476.594	3.502	Nitrite
4	6.12	50.479	1.809	Bromide
5	6.94	602.311	3.638	Nitrate
6	9.77	309.464	6.218	Sulfate
6	12.00	2075.618	23.568	

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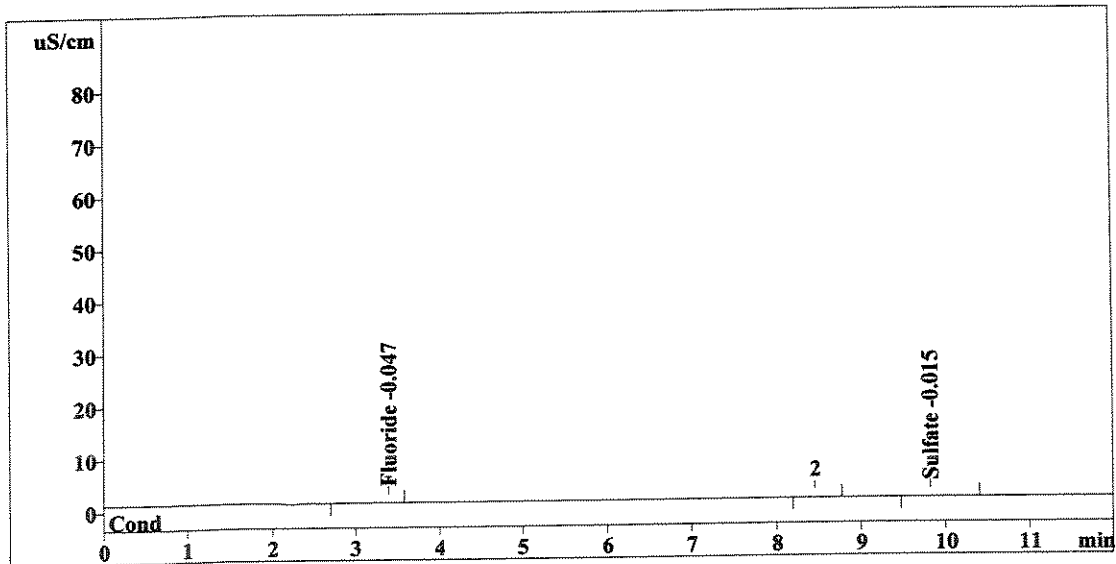
Ion Chromatography Analytical Report
 Columbia Analytical Services
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 Report date: 6/20/2008 03:42:18
 Printed by: User
 Ident: CCB
 Analysis from: 6/20/2008 03:30:19
 File: S6200330.CHW

Method 300.0/9056

Last save: 6/20/2008 03:42:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37265
 SAMPLE:
 Vial number: 59
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	0.334	-0.047	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	9.82	0.347	-0.015	Sulfate
<hr/>				
6	12.00	0.681	0.062	

OK
↓

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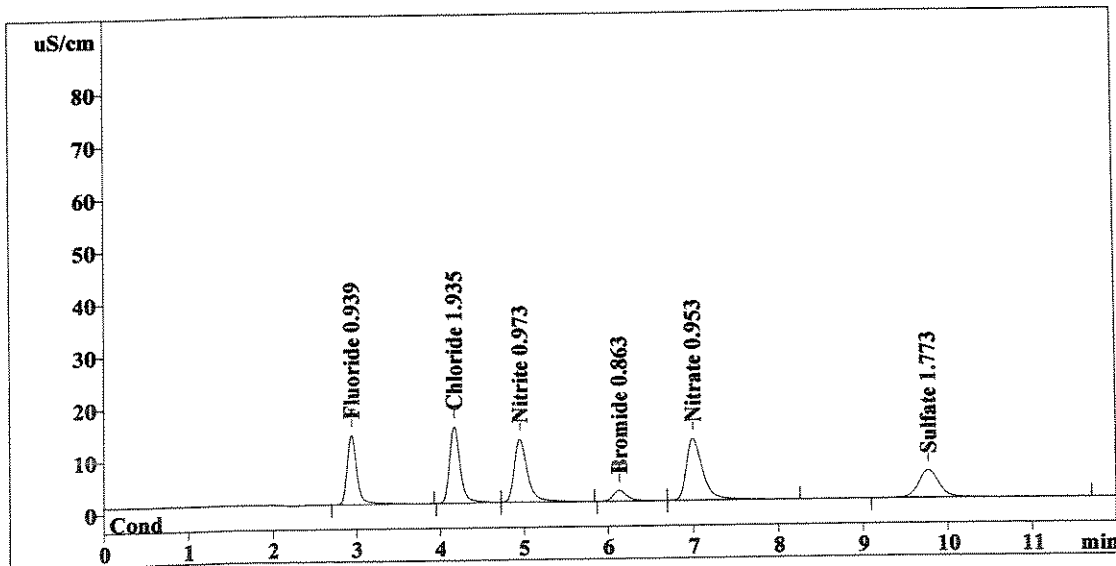
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/20/2008 03:56:24
 Printed by: User
 Ident: LCS
 Analysis from: 6/20/2008 03:44:25
 File: S6200344.CHW

Method 300.0/9056

Last save: 6/20/2008 03:56:24

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37266
 SAMPLE:
 Vial number: 60
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	107.676	0.939	Fluoride
2	4.16	125.025	1.935	Chloride
3	4.95	132.992	0.973	Nitrite
4	6.13	23.716	0.863	Bromide
5	6.99	155.799	0.953	Nitrate
6	9.78	89.018	1.773	Sulfate
6	12.00	634.226	7.436	

OK
 ↓
 out low
 OK
 out low

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 Columbia Analytical Services
 Rochester, NY 14609

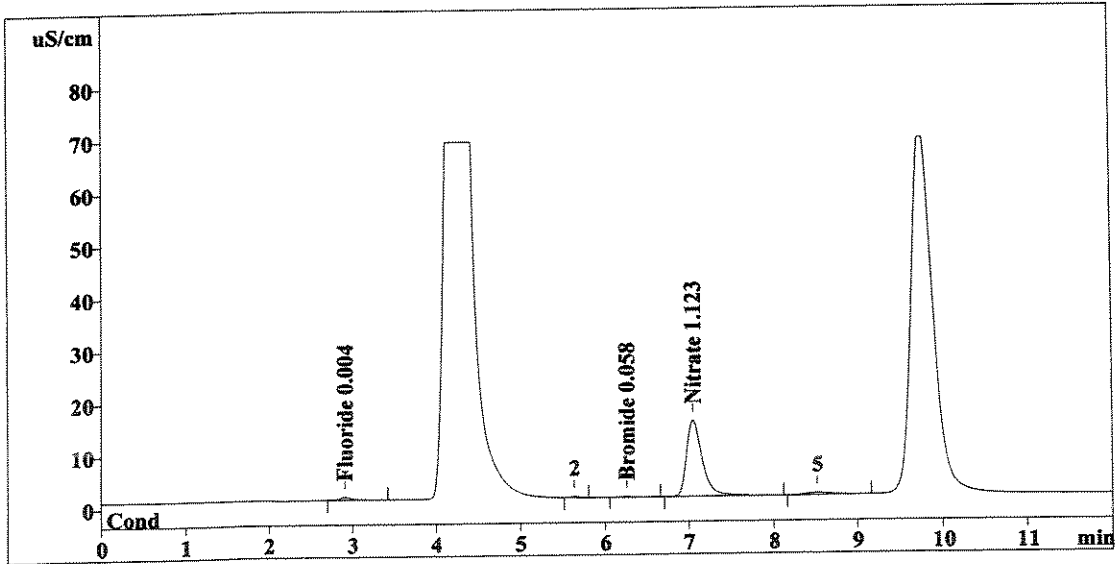
Method 300.0/9056

Report date: 6/20/2008 04:10:29
 Printed by: User
 Ident: 1110324
 Analysis from: 6/20/2008 03:58:31
 File: S6200358.CHW

Last save: 6/20/2008 04:10:29

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37267
 SAMPLE: F
 Vial number: 61
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	5.873	0.004	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.26	0.960	0.058	Bromide
5	7.05	183.983	1.123	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	190.816	1.184	

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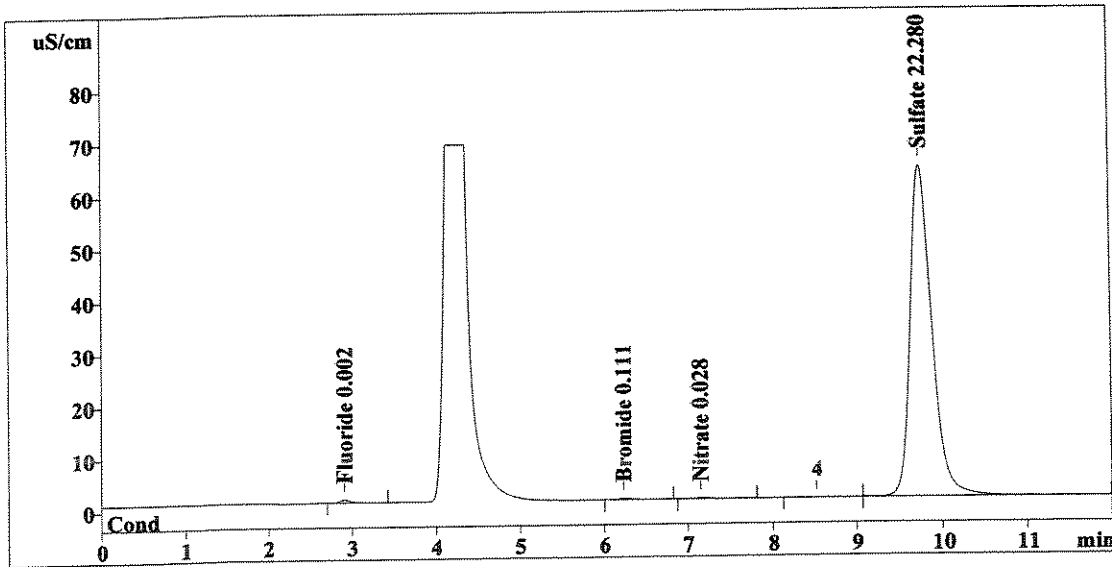
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/20/2008 04:24:35
 Printed by: User
 Ident: 1110325
 Analysis from: 6/20/2008 04:12:37
 File: S6200412.CHW

Method 300.0/9056

Last save: 6/20/2008 04:24:35

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37268
 SAMPLE: F
 Vial number: 62
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	5.690	0.002	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.23	2.460	0.111	Bromide
5	7.15	1.963	0.028	Nitrate
6	9.76	1106.160	22.280	Sulfate
6	12.00	1116.274	22.422	

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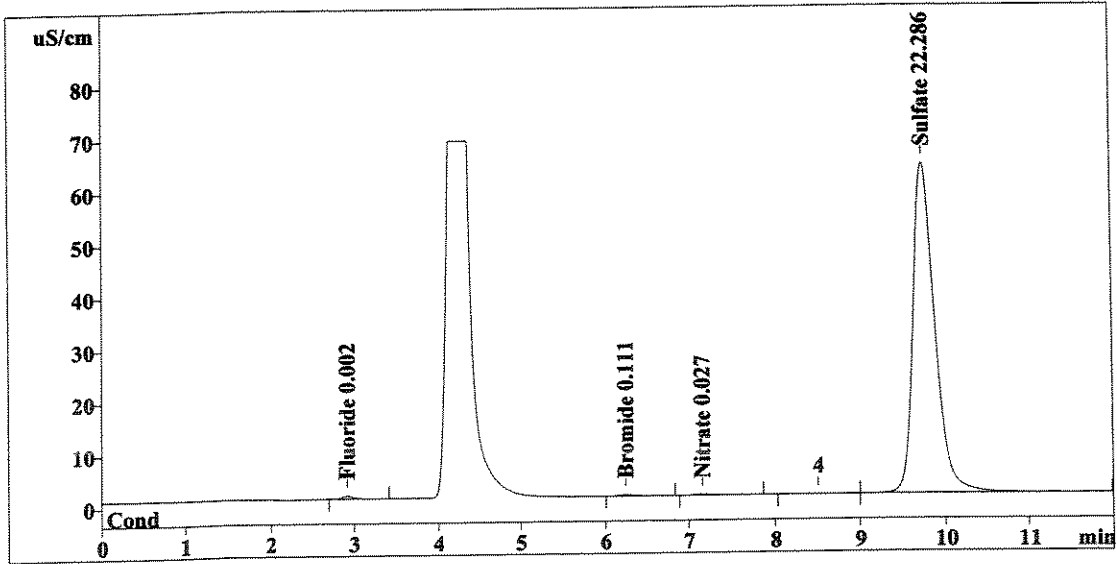
Method 300.0/9056

Report date: 6/20/2008 04:38:41
 Printed by: User
 IDent: 1110325 DUP
 Analysis from: 6/20/2008 04:26:43
 File: S6200426.CHW

Last save: 6/20/2008 04:38:41

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37269
 SAMPLE: F
 Vial number: 63
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	5.643	0.002	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.24	2.461	0.111	Bromide
5	7.16	1.829	0.027	Nitrate
6	9.76	1106.426	22.286	Sulfate
6	12.00	1116.358	22.426	

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 Columbia Analytical Services
 Rochester, NY 14609

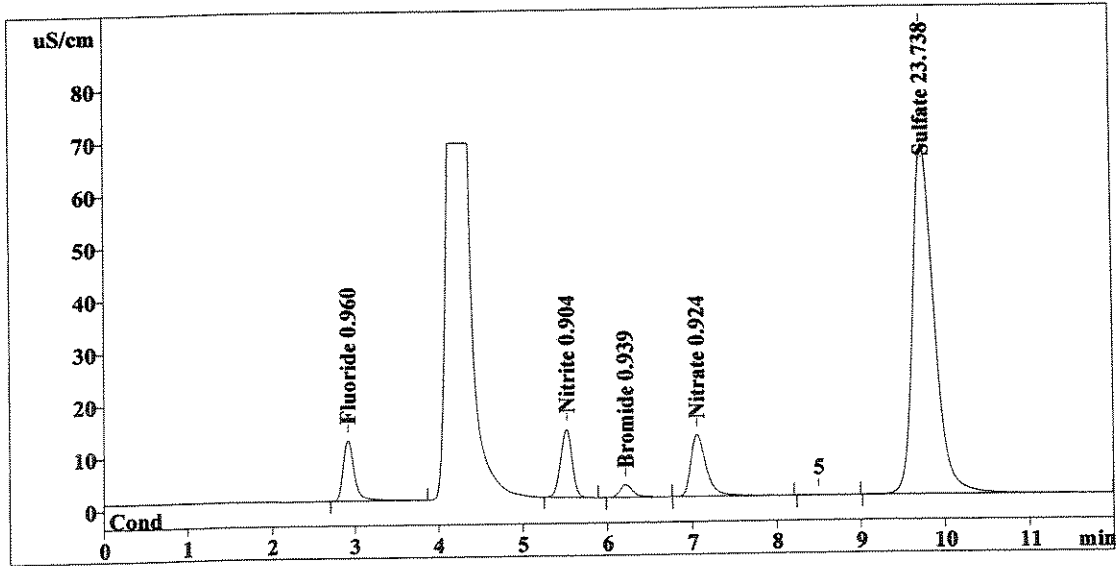
Method 300.0/9056

Report date: 6/20/2008 04:52:47
 Printed by: User
 Ident: 1110325 SPK
 Analysis from: 6/20/2008 04:40:49
 File: S6200440.CHW

Last save: 6/20/2008 04:52:47

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37270
 SAMPLE: F
 Vial number: 64
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	109.970	0.960	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.52	123.548	0.904	Nitrite
4	6.21	25.862	0.939	Bromide
5	7.06	150.951	0.924	Nitrate
6	9.75	1178.453	23.738	Sulfate
6	12.00	1588.784	27.464	

Handwritten note: $\frac{0.002}{1.0} \times 100 = 0.2\%$ (Note: The image shows a calculation that appears to be 95.8% based on the numbers, but the text is partially obscured and difficult to read precisely.)

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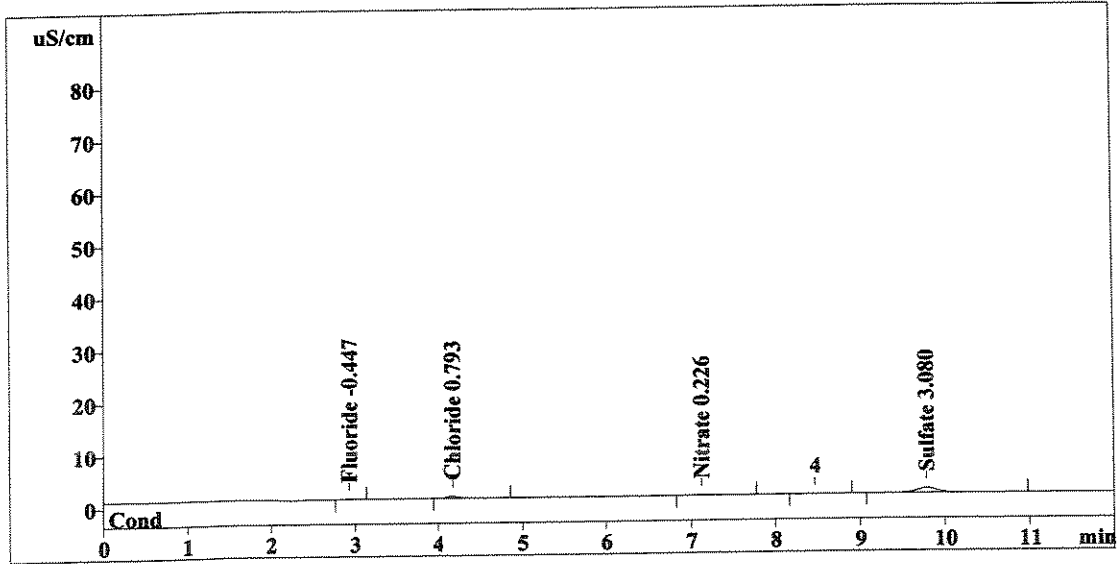
Method 300.0/9056

Report date: 6/20/2008 05:06:53
 Printed by: User
 Ident: 1110504
 Analysis from: 6/20/2008 04:54:55
 File: S6200454.CHW

Last save: 6/20/2008 05:06:53

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37271
 SAMPLE: CS
 Vial number: 65
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.601	-0.447	Fluoride
2	4.17	3.663	0.793	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.12	1.028	0.226	Nitrate
6	9.78	16.347	3.080	Sulfate
<hr/>				
6	12.00	21.638	4.545	

Handwritten notes:
 OK
 No Les out 1020
 TE 6/20/08

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TE 6/20/08

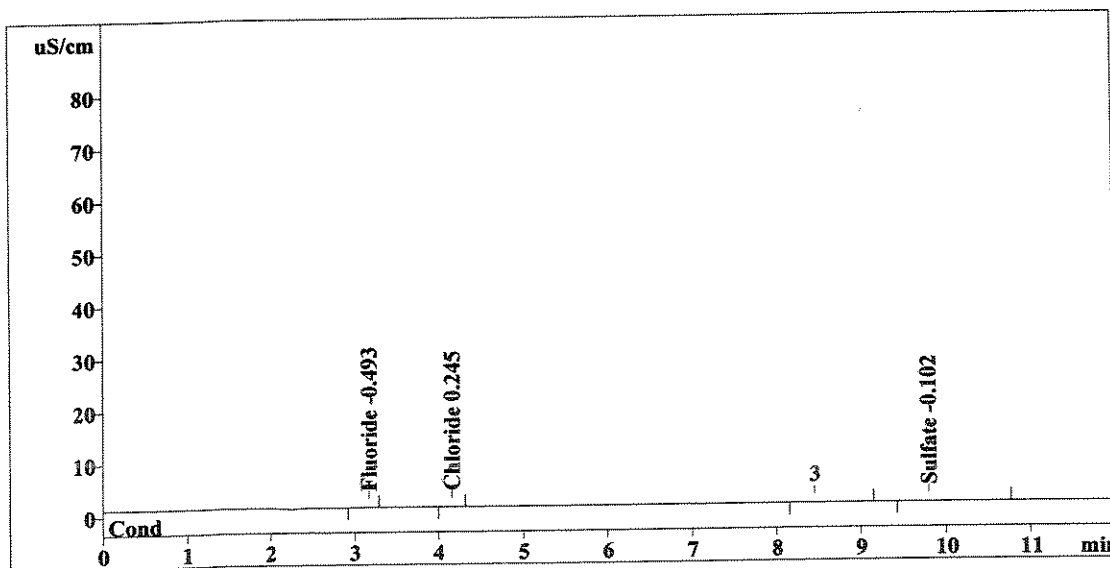
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/20/2008 05:20:59
 Printed by: User
 Ident: 1110505
 Analysis from: 6/20/2008 05:09:01
 File: S6200509.CHW

Method 300.0/9056

Last save: 6/20/2008 05:20:59

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37272
 SAMPLE: CS
 Vial number: 66
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.16	0.102	-0.493	Fluoride
2	4.16	0.080	OK -0.245	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	9.80	0.562	out on les -0.102	Sulfate
6	12.00	0.745	0.840	

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 Columbia Analytical Services
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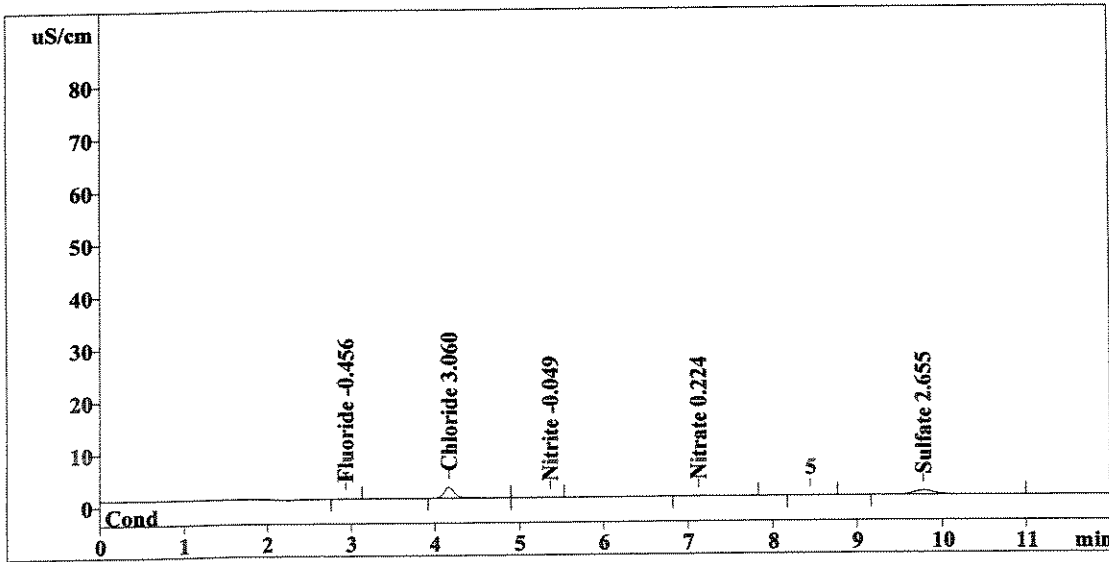
Method 300.0/9056

Report date: 6/20/2008 05:35:05
 Printed by: User
 Ident: 1110506
 Analysis from: 6/20/2008 05:23:07
 File: S6200523.CHW

Last save: 6/20/2008 05:35:05

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37273
 SAMPLE: CS
 Vial number: 67
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.506	-0.456	Fluoride
2	4.17	18.495	3.060	Chloride
3	5.36	0.059	-0.049	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.12	0.997	0.224	Nitrate
6	9.77	14.236	2.655	Sulfate
6	12.00	34.293	6.443	

Handwritten notes: "out ok" next to row 6; "on LCS" below row 6; "TC 6/20/08" next to row 6.

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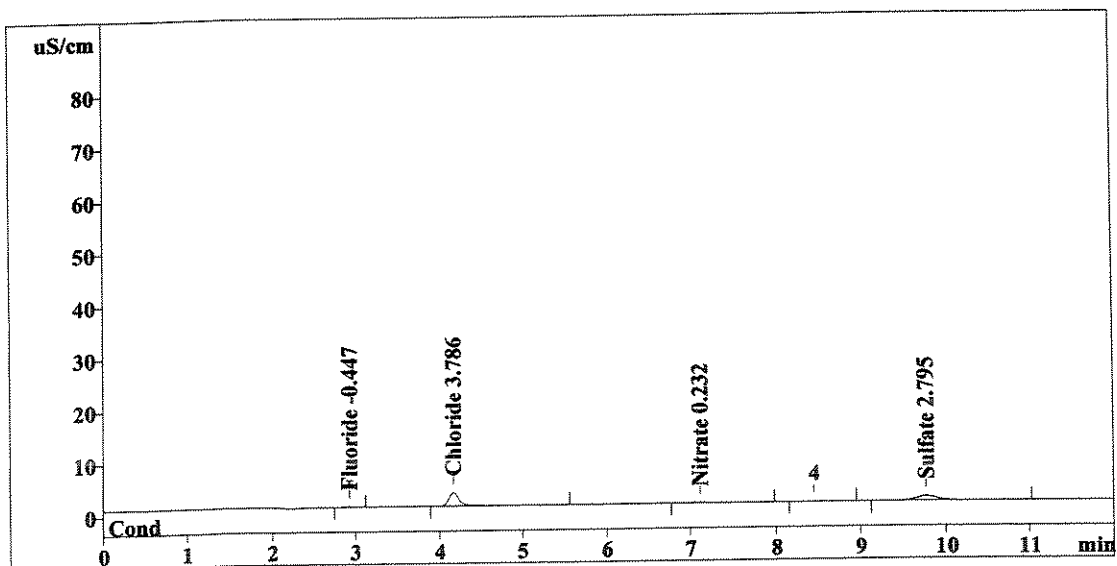
Method 300.0/9056

Report date: 6/20/2008 05:49:11
 Printed by: User
 Ident: 1110507
 Analysis from: 6/20/2008 05:37:13
 File: S6200537.CHW

Last save: 6/20/2008 05:49:11

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37274
 SAMPLE: CS
 Vial number: 68
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.599	-0.447	Fluoride
2	4.16	23.240	3.786	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.11	1.136	0.232	Nitrate
6	9.77	14.932	2.795	Sulfate
6	12.00	39.907	7.260	

OK (handwritten next to 3.786)
out on LCS (handwritten next to 7.260)

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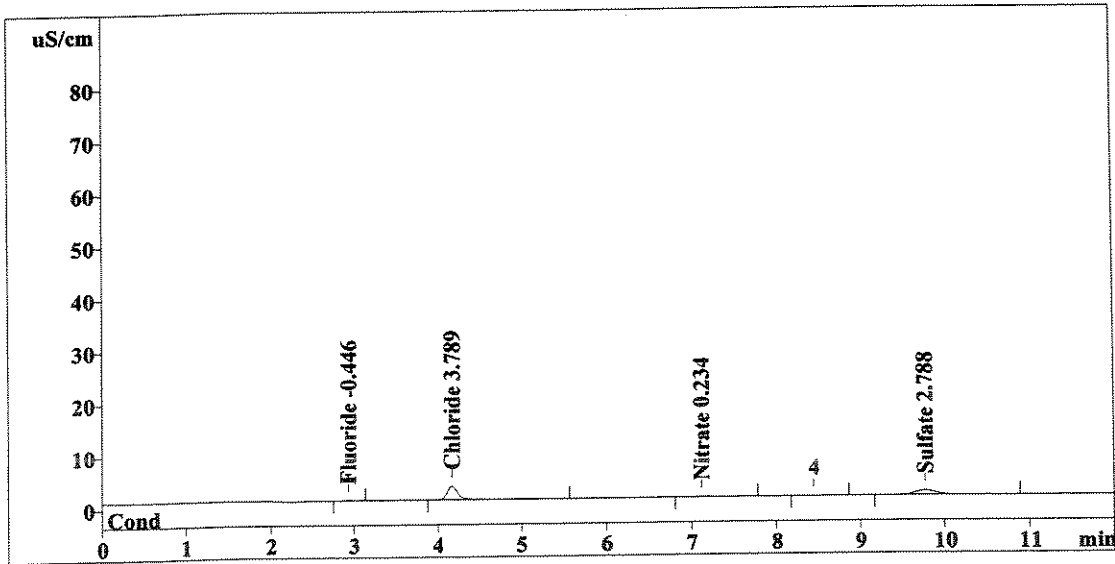
TC 6/20/08

Report date: 6/20/2008 06:03:17
 Printed by: User
 Ident: 1110507 DUP
 Analysis from: 6/20/2008 05:51:19
 File: S6200551.CHW

Last save: 6/20/2008 06:03:17

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37275
 SAMPLE: CS
 Vial number: 69
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.615	-0.446	Fluoride
2	4.17	23.261	3.789	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.12	1.155	0.234	Nitrate
6	9.77	14.897	2.788	Sulfate
6	12.00	39.928	7.256	

OK (handwritten next to Chloride)
out on LCS (handwritten next to Nitrate)

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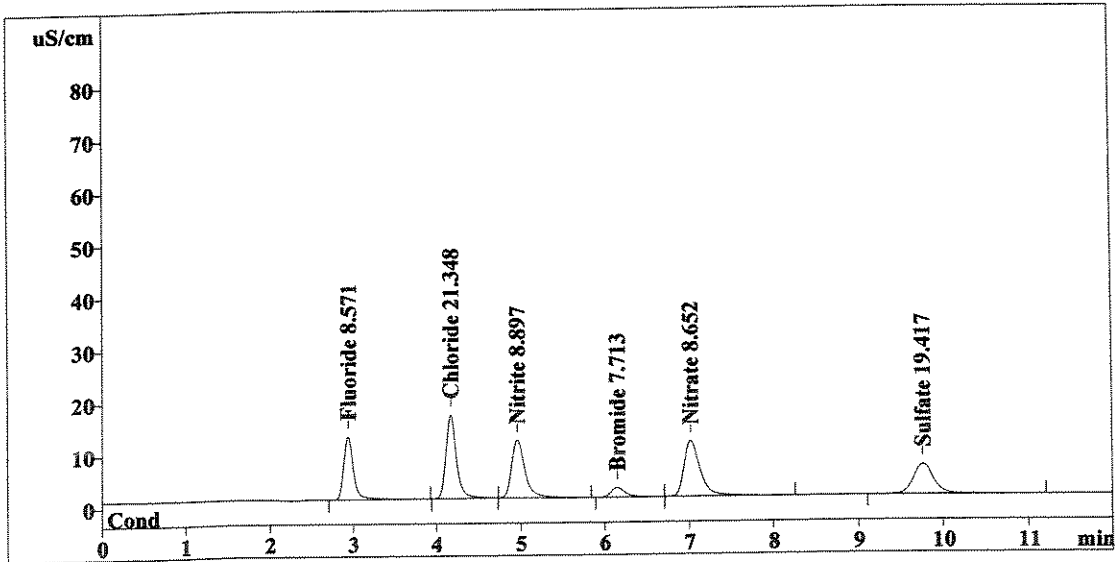
Method 300.0/9056

Report date: 6/20/2008 06:17:22
 Printed by: User
 Ident: 1110507 SPK
 Analysis from: 6/20/2008 06:05:24
 File: S6200605.CHW

Last save: 6/20/2008 06:17:23

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37276
 SAMPLE: CS
 Vial number: 70
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	98.790	8.571	Fluoride
2	4.16	138.115	21.348	Chloride
3	4.95	121.611	8.897	Nitrite
4	6.15	21.127	7.713	Bromide
5	7.01	141.173	8.652	Nitrate
6	9.77	97.378	19.417	Sulfate
<hr/>				
6	12.00	618.195	74.598	

Handwritten notes:
 OK
 out on LCS
 $\frac{3.786}{20} \times 100 = 87.8\%$

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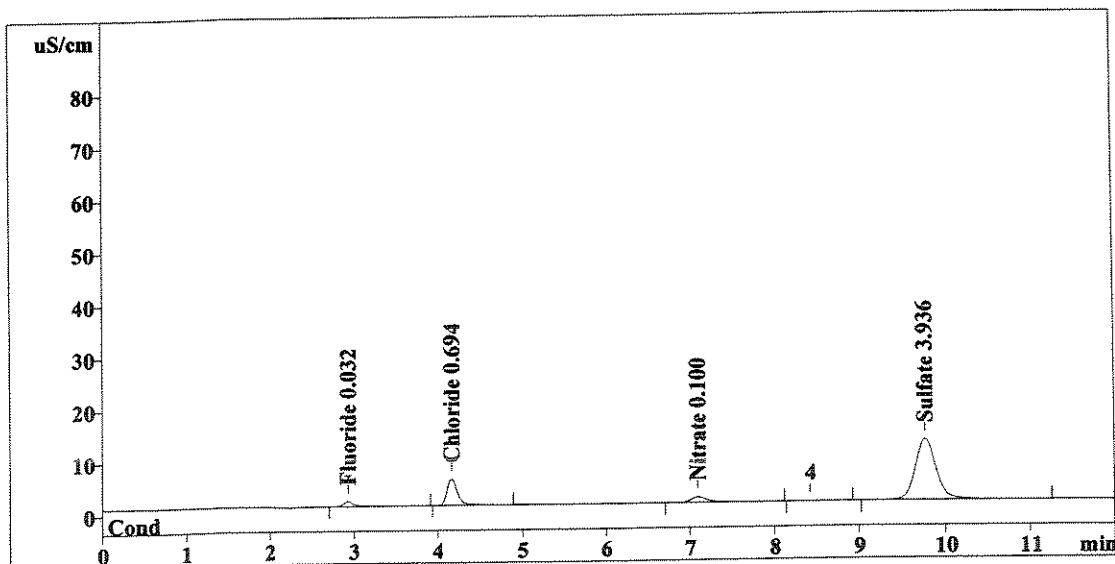
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/20/2008 06:31:28
 Printed by: User
 Ident: 1110504
 Analysis from: 6/20/2008 06:19:30
 File: S6200619.CHW

Method 300.0/9056

Last save: 6/20/2008 06:31:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37277
 SAMPLE: F
 Vial number: 71
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	8.897	0.032	Fluoride
2	4.16	43.882	0.694	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.09	13.841	0.100	Nitrate
6	9.77	196.274	3.936	Sulfate
6	12.00	262.894	4.761	

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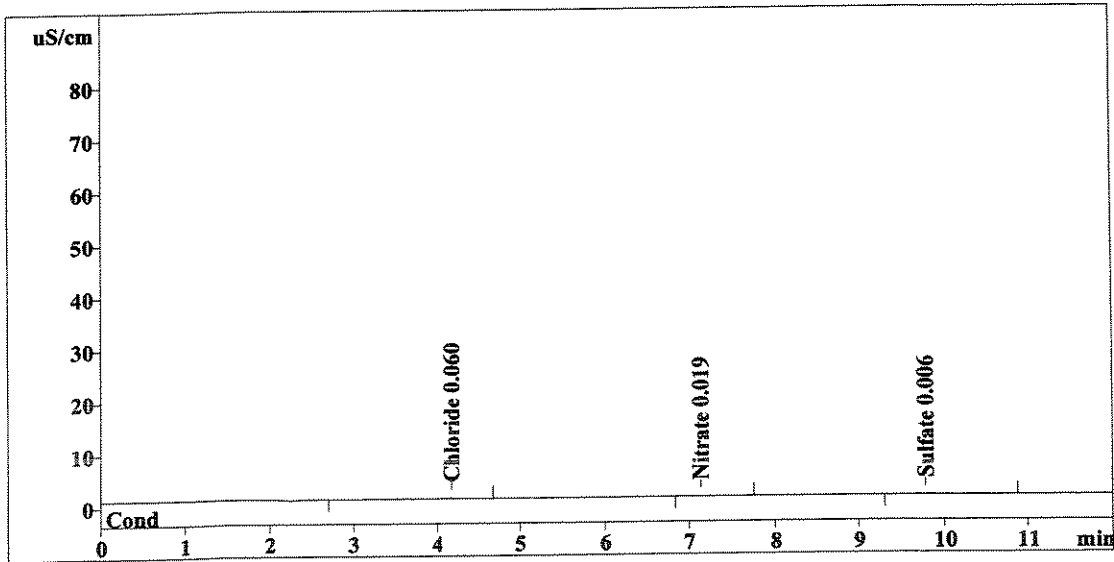
Method 300.0/9056

Report date: 6/20/2008 06:45:34
 Printed by: User
 Ident: 1110505
 Analysis from: 6/20/2008 06:33:36
 File: S6200633.CHW

Last save: 6/20/2008 06:45:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37278
 SAMPLE: F
 Vial number: 72
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.17	2.387	0.060	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.13	0.431	0.019	Nitrate
6	9.78	1.378	0.006	Sulfate
6	12.00	4.196	0.085	

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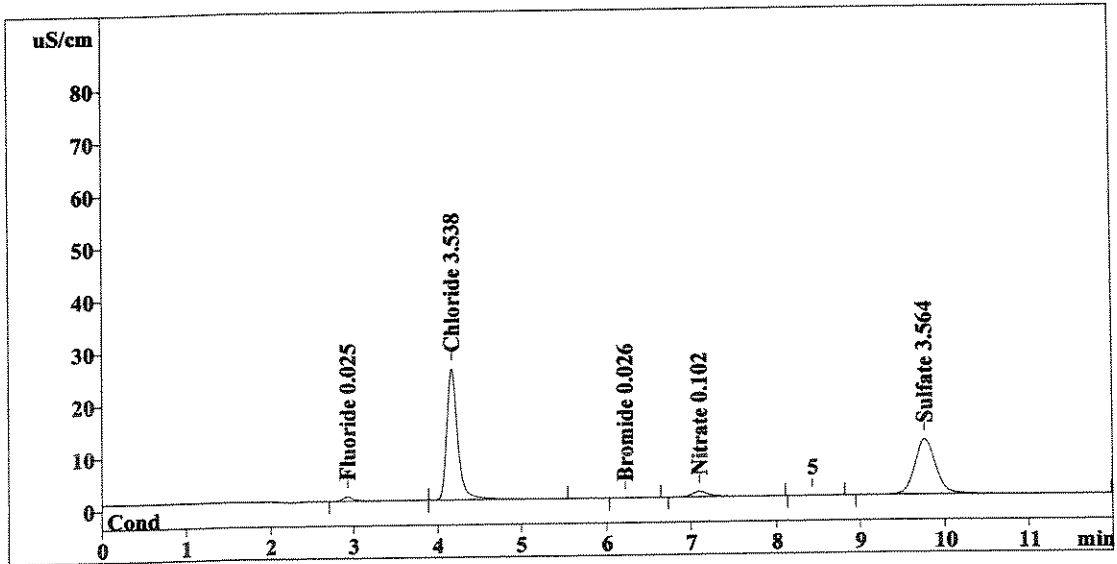
Method 300.0/9056

Report date: 6/20/2008 06:59:40
 Printed by: User
 Ident: 1110506
 Analysis from: 6/20/2008 06:47:42
 File: S6200647.CHW

Last save: 6/20/2008 06:59:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37279
 SAMPLE: F
 Vial number: 73
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	8.137	0.025	Fluoride
2	4.16	229.898	3.538	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.23	0.068	0.026	Bromide
5	7.10	14.166	0.102	Nitrate
6	9.77	177.850	3.564	Sulfate
6	12.00	430.119	7.255	

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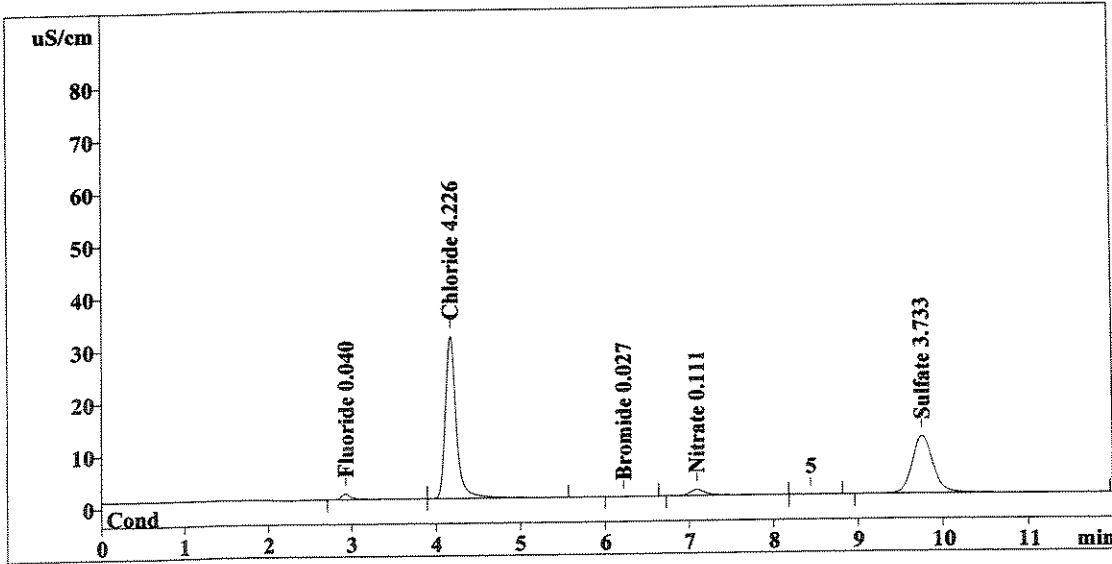
Method 300.0/9056

Report date: 6/20/2008 07:13:46
 Printed by: User
 Ident: 1110507
 Analysis from: 6/20/2008 07:01:48
 File: S6200701.CHW

Last save: 6/20/2008 07:13:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37280
 SAMPLE: F
 Vial number: 74
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	9.847	0.040	Fluoride
2	4.16	274.884	4.226	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.21	0.081	0.027	Bromide
5	7.09	15.665	0.111	Nitrate
6	9.76	186.218	3.733	Sulfate
6	12.00	486.696	8.136	

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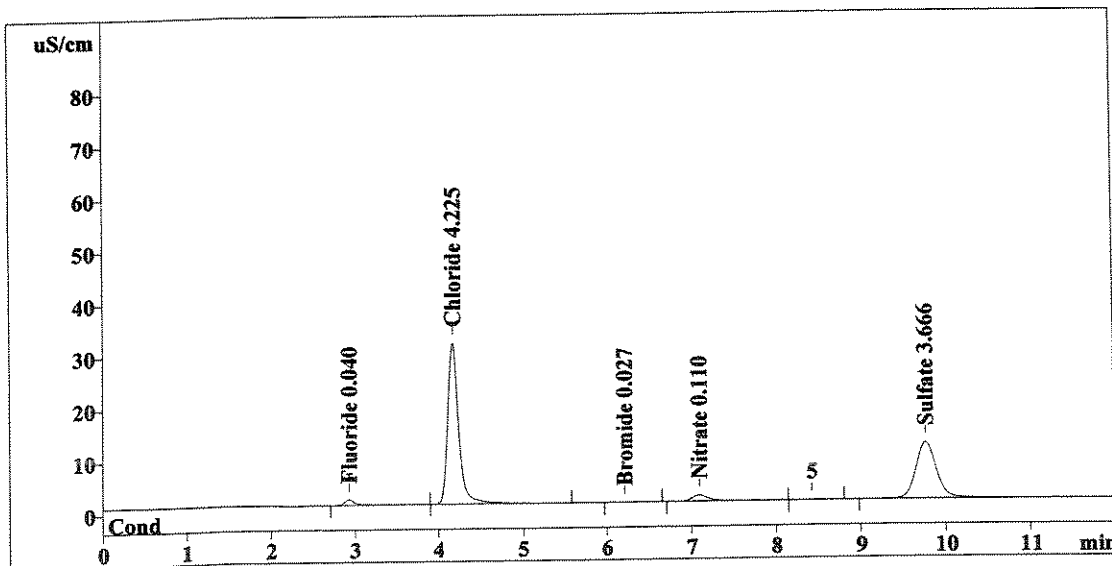
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/20/2008 07:27:52
 Printed by: User
 Ident: 1110507 DUP
 Analysis from: 6/20/2008 07:15:54
 File: S6200715.CHW

Method 300.0/9056

Last save: 6/20/2008 07:27:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37281
 SAMPLE: F
 Vial number: 75
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	9.772	0.040	Fluoride
2	4.16	274.814	4.225	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.21	0.082	0.027	Bromide
5	7.09	15.556	0.110	Nitrate
6	9.76	182.912	3.666	Sulfate
6	12.00	483.136	8.067	

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 Columbia Analytical Services
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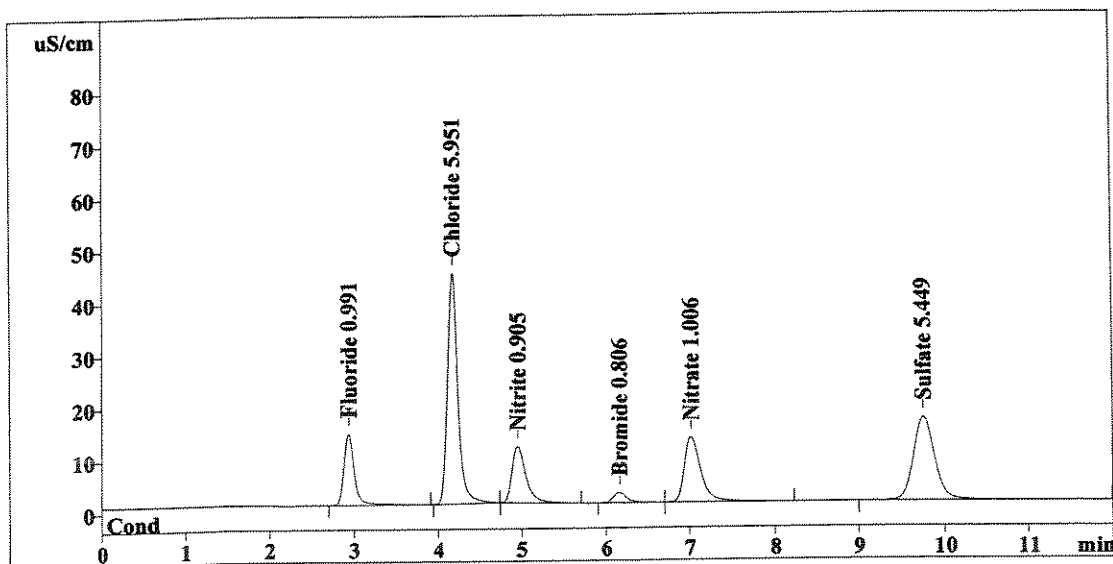
Method 300.0/9056

Report date: 6/20/2008 07:41:58
 Printed by: User
 Ident: 1110507 SPK
 Analysis from: 6/20/2008 07:30:00
 File: S6200730.CHW

Last save: 6/20/2008 07:41:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37282
 SAMPLE: F
 Vial number: 76
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	113.371	0.991	Fluoride
2	4.16	387.752	5.951	Chloride
3	4.95	123.630	0.905	Nitrite
4	6.16	22.116	0.806	Bromide
5	7.02	164.570	1.006	Nitrate
6	9.76	271.329	5.449	Sulfate
<hr/>				
6	12.00	1082.769	15.108	

Handwritten note: $\frac{0.040}{1.0} \times 100 = 4\%$

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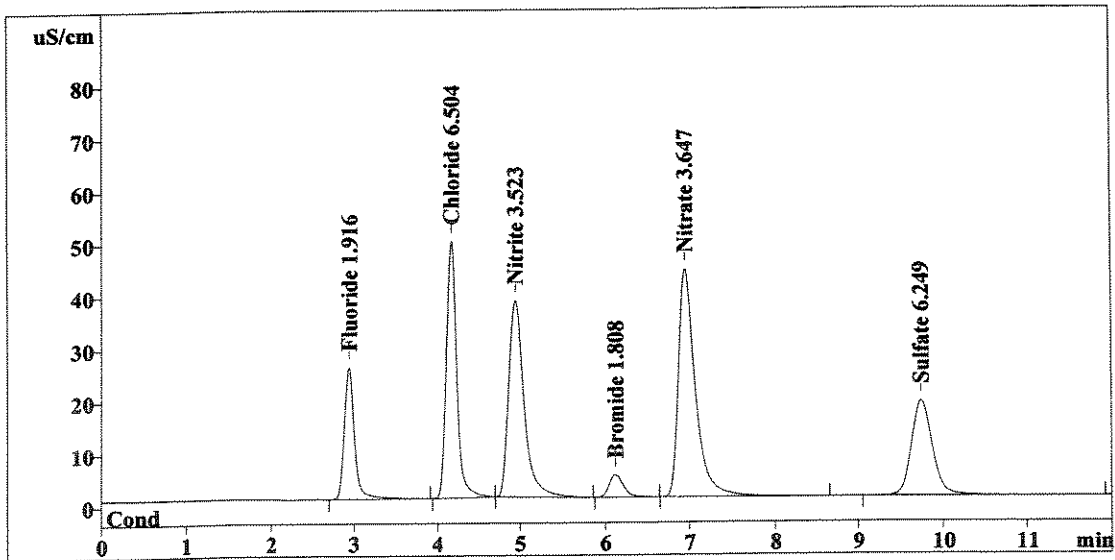
Method 300.0/9056

Report date: 6/20/2008 07:56:04
 Printed by: User
 Ident: CCV
 Analysis from: 6/20/2008 07:44:06
 File: S6200744.CHW

Last save: 6/20/2008 07:56:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37283
 SAMPLE:
 Vial number: 77
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	214.131	1.916	Fluoride
2	4.16	423.877	6.504	Chloride
3	4.93	479.449	3.523	Nitrite
4	6.12	50.440	1.808	Bromide
5	6.94	603.813	3.647	Nitrate
6	9.75	311.034	6.249	Sulfate
<hr/>				
6	12.00	2082.745	23.648	

OK
↓

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TC 6/20/08

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

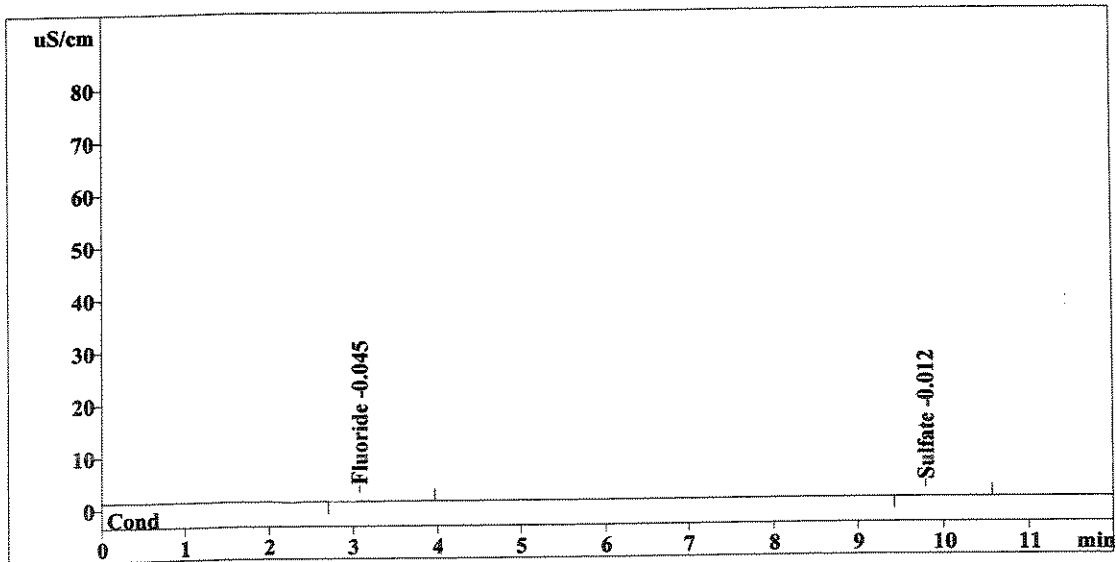
Method 300.0/9056

Report date: 6/20/2008 08:10:10
 Printed by: User
 Ident: CCB
 Analysis from: 6/20/2008 07:58:12
 File: S6200758.CHW

Last save: 6/20/2008 08:10:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37284
 SAMPLE:
 Vial number: 78
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.08	0.615	-0.045	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	9.80	0.494	-0.012	Sulfate
6	12.00	1.109	0.056	

Handwritten notes: 'al' with a downward arrow pointing to the Sulfate row, and 'TC 6/20/08' at the bottom right.

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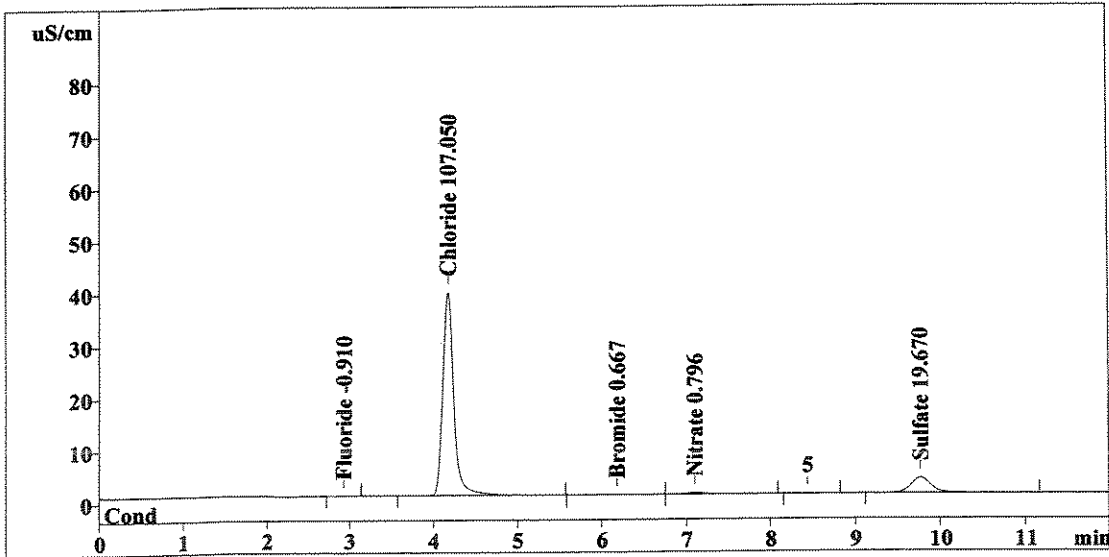
Method 300.0/9056

Report date: 6/20/2008 08:24:16
 Printed by: User
 Ident: 1109955
 Analysis from: 6/20/2008 08:12:17
 File: S6200812.CHW

Last save: 6/20/2008 08:24:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37285
 SAMPLE: C
 Vial number: 79
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.514	-0.910	Fluoride
2	4.16	348.582	107.050	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.19	0.264	0.667	Bromide
5	7.10	3.893	0.796	Nitrate
6	9.77	49.852	19.670	Sulfate
6	12.00	403.104	129.093	

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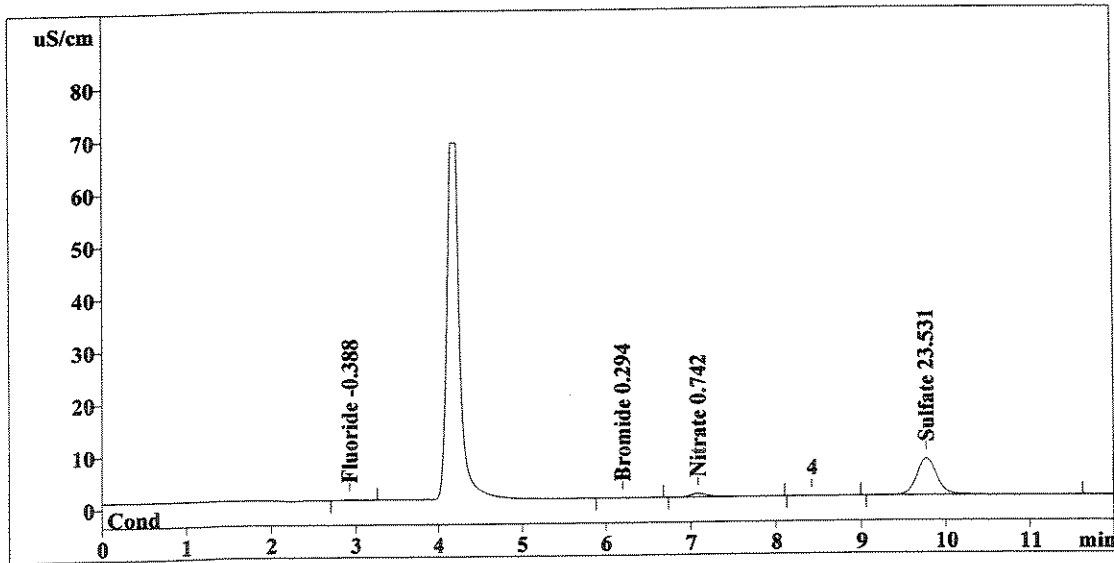
Method 300.0/9056

Report date: 6/20/2008 08:38:21
 Printed by: User
 Ident: 1109955
 Analysis from: 6/20/2008 08:26:23
 File: S6200826.CHW

Last save: 6/20/2008 08:38:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37286
 SAMPLE: S
 Vial number: 80
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	1.238	-0.388	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.20	0.153	0.294	Bromide
5	7.08	9.614	0.742	Nitrate
6	9.77	117.782	23.531	Sulfate
6	12.00	128.787	24.955	

OK No out onICS TE 6/20/08

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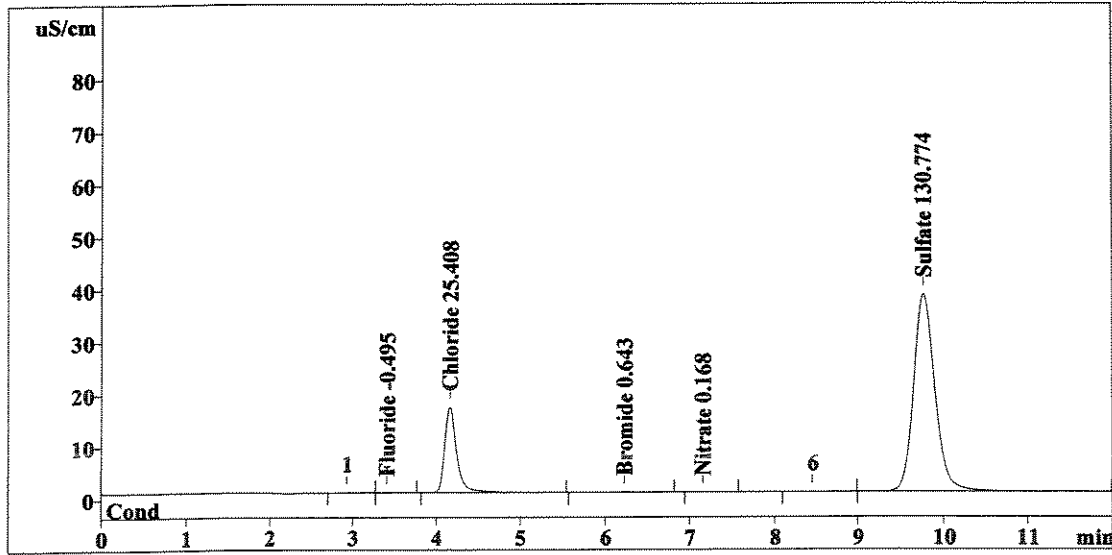
TE 6/20/08

Report date: 6/20/2008 08:52:27
 Printed by: User
 Ident: 1076273
 Analysis from: 6/20/2008 08:40:29
 File: S6200840.CHW

Last save: 6/20/2008 08:52:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37287
 SAMPLE: S
 Vial number: 81
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.41	0.078	-0.495	Fluoride
2	4.16	164.674	25.408	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.23	1.139	0.643	Bromide
5	7.16	0.072	0.168	Nitrate
6	9.77	649.698	130.774	Sulfate
6	12.00	815.661	157.488	

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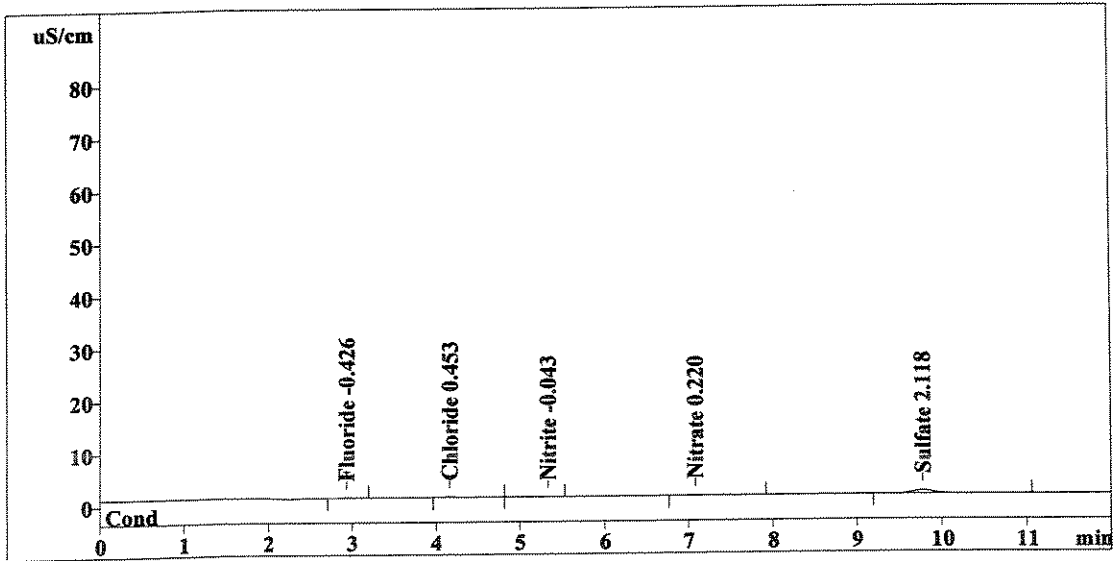
Method 300.0/9056

Report date: 6/20/2008 09:06:33
 Printed by: User
 Ident: 1110018
 Analysis from: 6/20/2008 08:54:35
 File: S6200854.CHW

Last save: 6/20/2008 09:06:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37288
 SAMPLE: CS
 Vial number: 82
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.832	-0.426	Fluoride
2	4.16	1.444	0.453	Chloride
3	5.33	0.139	-0.043	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.08	0.930	0.220	Nitrate
6	9.78	11.576	2.118	Sulfate
6	12.00	14.920	3.260	

report SL
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out on les

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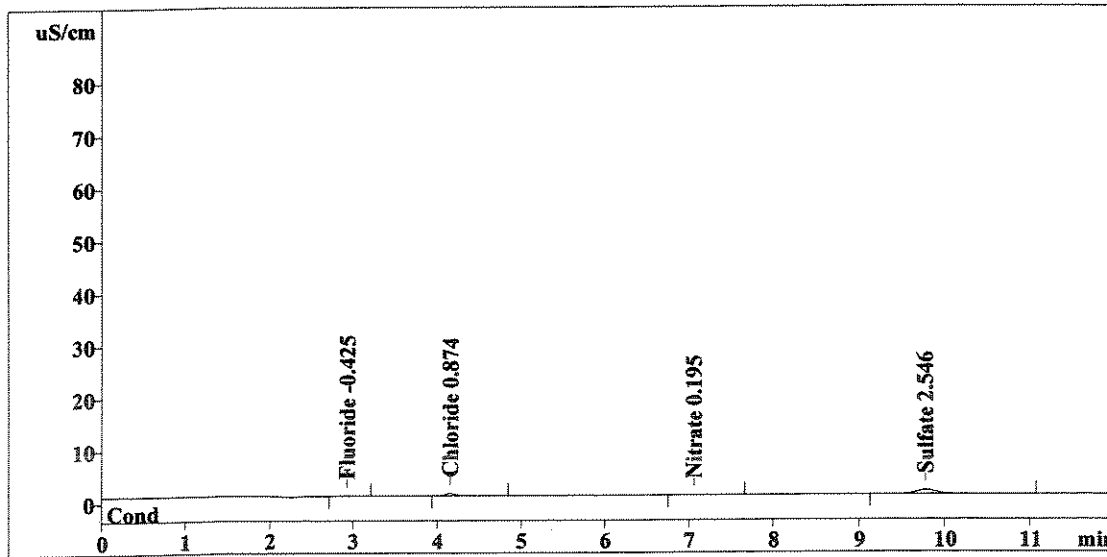
TC 6/20/08

Report date: 6/20/2008 09:20:43
 Printed by: User
 Ident: 1110019
 Analysis from: 6/20/2008 09:08:41
 File: S6200908.CHW

Last save: 6/20/2008 09:20:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37289
 SAMPLE: CS
 Vial number: 83
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.834	-0.425	Fluoride
2	4.15	4.198	0.874	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.06	0.511	0.195	Nitrate
6	9.78	13.697	2.546	Sulfate
6	12.00	19.240	4.041	

Handwritten notes: "OK" next to the Chloride row, "out on LOS" next to the Nitrate row, and "report ok" written vertically next to the Fluoride and Chloride rows.

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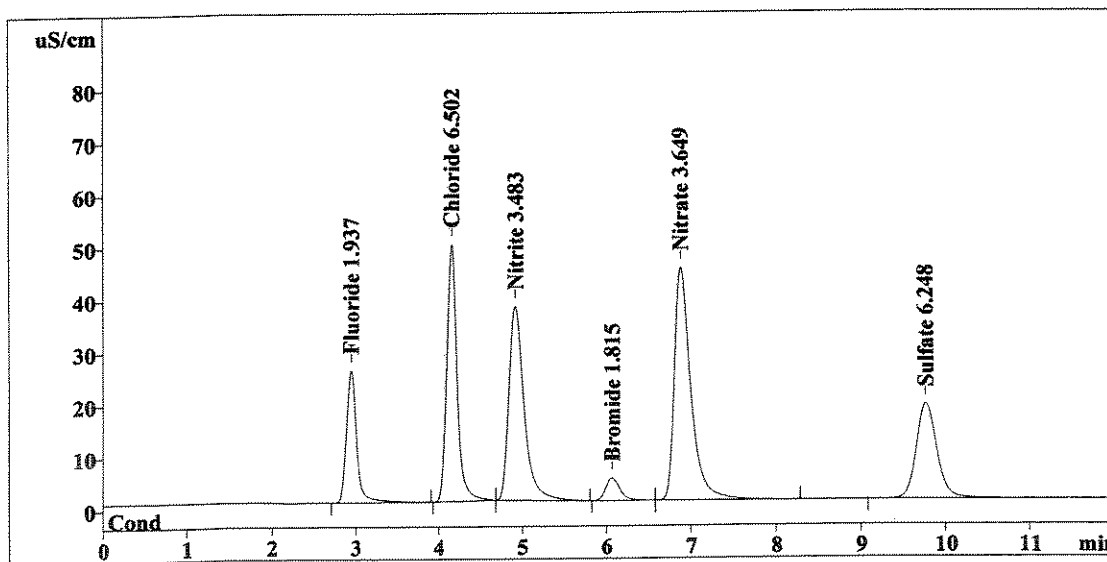
Handwritten: TC 6/20/08

Report date: 6/20/2008 09:35:02
 Printed by: User
 Ident: CCV
 Analysis from: 6/20/2008 09:23:03
 File: S6200923.CHW

Last save: 6/20/2008 09:35:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37290
 SAMPLE:
 Vial number: 102
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	216.408	1.937	Fluoride
2	4.15	423.745	6.502	Chloride
3	4.91	473.972	3.483	Nitrite
4	6.07	50.638	1.815	Bromide
5	6.88	604.108	3.649	Nitrate
6	9.77	310.956	6.248	Sulfate
6	12.00	2079.828	23.633	

OK
↓

TC 6/20/08

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 Rochester, NY 14609

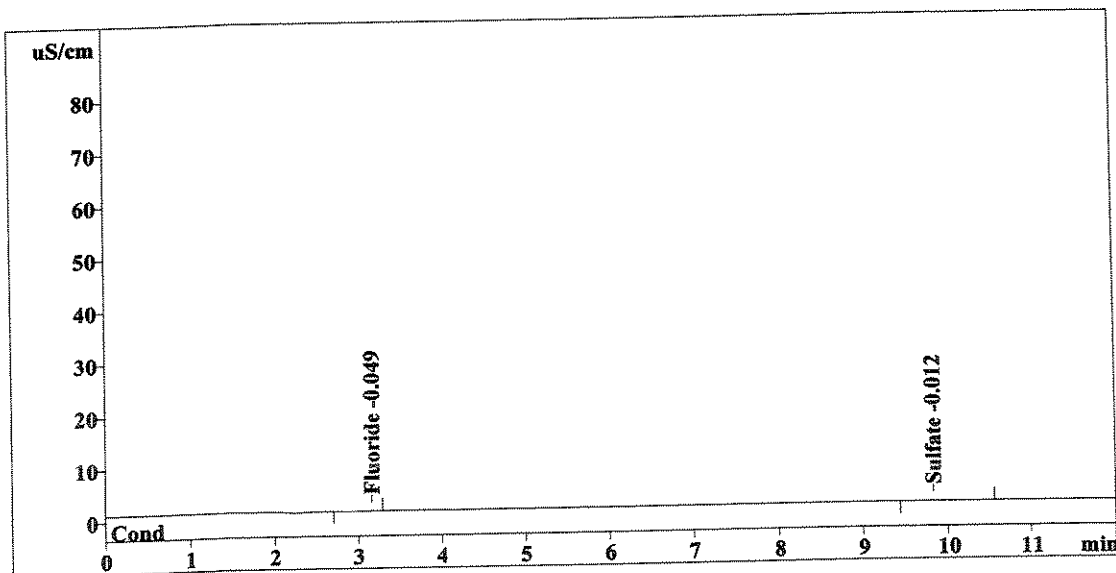
Method 300.0/9056

Report date: 6/23/2008 14:58:43
 Printed by: User
 Ident: CCB
 Analysis from: 6/20/2008 09:37:09
 File: s6200937.chw

Last save: 6/20/2008 09:49:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37291
 SAMPLE:
 Vial number: 103
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/19/2008 09:53:48



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.16	0.098	-0.049	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	9.82	0.480	-0.012	Sulfate
<hr/>			0.061	
6	12.00	0.578		

OK
↓

TC 6/20/08

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Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: 06/05/08

Loop size: 100 uL

Analyst: Chris Woods

Analysis Date: 6/19/08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	05/05/08	WC72049B	Working Calibration Stds	06/05/08	WC72049J
LCS / MS Intermediate	05/05/08	WC72049B	Working LCS/MS Standard	06/16/08	WC72093B
ICV Intermediate	05/05/08	WC72134B	Working ICV Standard	05/05/08	WC72134H
CCV Intermediate	05/05/08	WC72134B	Working CCV Standard	DAILY	WC72134H

Comments:

CURVE EXPIRES 7/2/08

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	WC720093A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720093B
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		

44538

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	1110981	WATER	0.602	10.0	0.0500			06/21/08	RUN	ASPB
CHK5		1111432	WATER	3.71	1.0	0.0500	103.1		06/21/08		
BLK4		1111433	WATER	0.0500	1.0	0.0500			06/21/08		
SPKB		1111434	WATER	0.994	1.0	0.0500	99.4		06/21/08		
ESMP	R2844538	1111264	WATER	33.3	10.0	0.0500			06/21/08	RUN	ASPB
ESMP	R2844538	1111265	WATER	5.73	10.0	0.0500			06/21/08	RUN	ASPB
ESMP	R2844538	1111266	WATER	32.1	10.0	0.0500			06/21/08	RUN	ASPB
ESMP	R2844538	1111267	WATER	12.1	10.0	0.0500			06/21/08	RUN	ASPB
LDUP		1111435	WATER	12.2	10.0	0.0500		0.80	06/21/08		
SPK1		1111436	WATER	21.2	10.0	0.0500	90.7		06/21/08		

Records printed: 10

Reviewed & Approved
 By: SDetw
 Date: 6/28/08

Results Entered Manually!

10/21/08

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution	CCY	147	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	148	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	LCS	119	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	R-44538	120	1.0	10.0	1.0	100.0	0	1	1	CMNS	
Columbia-no dilution	MC66BD	121	1.0	10.0	1.0	100.0	0	1	1	CMNS	
Columbia-no dilution	MC66B	122	1.0	10.0	1.0	100.0	0	1	1	CMNS	
Columbia-no dilution	MC66B	123	1.0	10.0	1.0	100.0	0	1	1	CMNS	
Columbia-no dilution	PC37B	124	1.0	10.0	1.0	100.0	0	1	1	CMNS	
Columbia-no dilution	PC37B DUP	125	1.0	10.0	1.0	100.0	0	1	1	CMNS	
Columbia-no dilution	PC37B SPK	126	1.0	10.0	1.0	100.0	0	1	1	CMNS	
Columbia-no dilution	CCY	127	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	128	1.0	1.0	1.0	100.0	0	1	1		

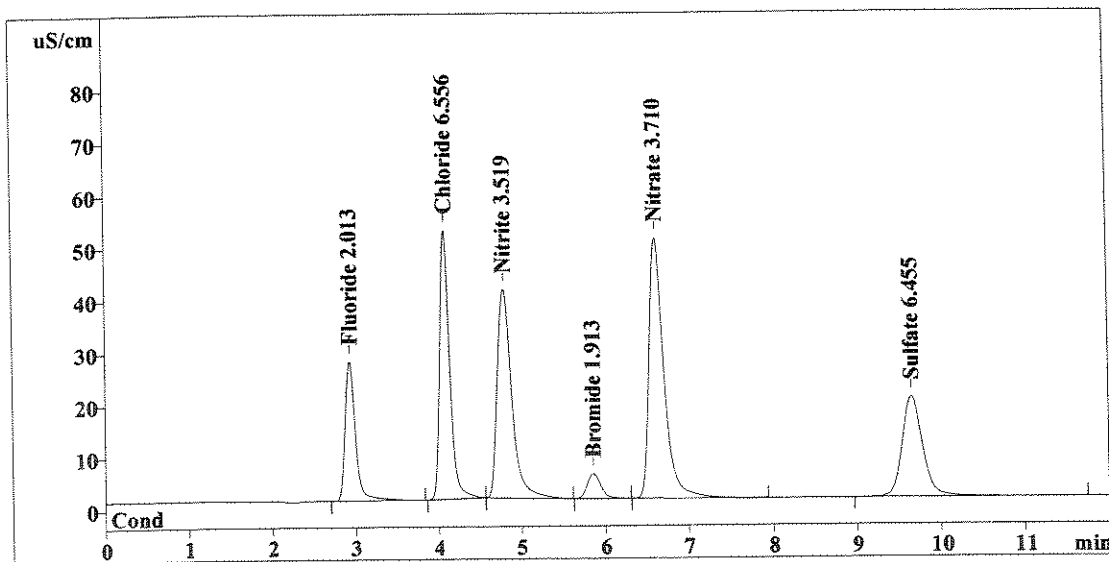
worksheets updated

Report date: 6/21/2008 14:50:57
 Printed by: User
 Ident: CCV
 Analysis from: 6/21/2008 14:38:59
 File: S6211438.CHW

Last save: 6/21/2008 14:50:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37354
 SAMPLE:
 Vial number: 147
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/21/2008 14:36:16



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	224.650	2.013	Fluoride
2	4.08	427.320	6.556	Chloride
3	4.79	478.846	3.519	Nitrite
4	5.86	53.416	1.913	Bromide
5	6.61	614.258	3.710	Nitrate
6	9.66	321.229	6.455	Sulfate
<hr/>				
6	12.00	2119.719	24.166	

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TC 6/23/08

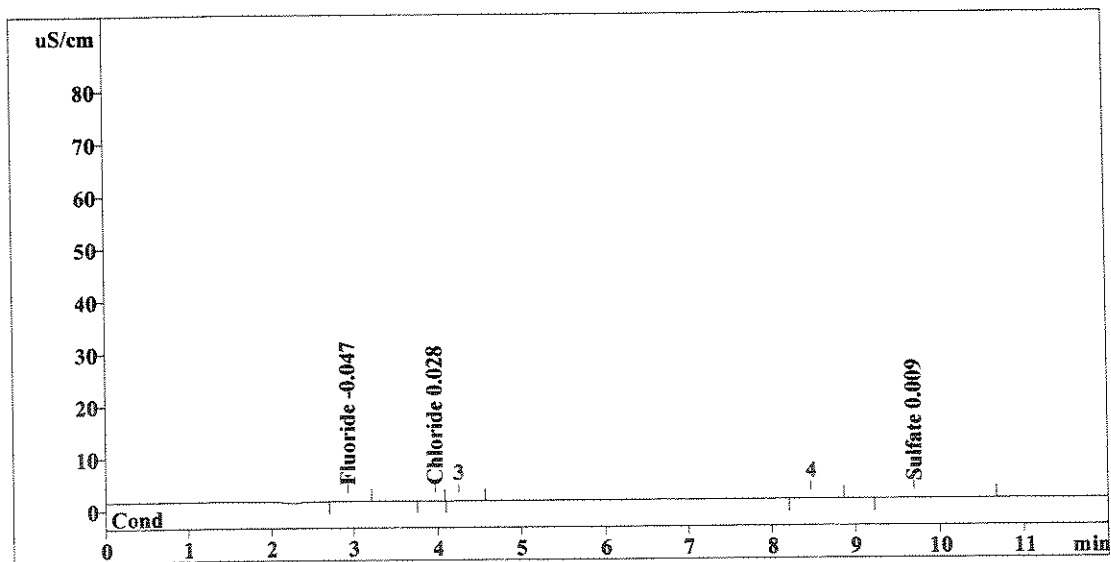
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/21/2008 15:05:04
 Printed by: User
 Ident: CCB
 Analysis from: 6/21/2008 14:53:06
 File: S6211453.CHW

Method 300.0/9056

Last save: 6/21/2008 15:05:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37355
 SAMPLE:
 Vial number: 148
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/21/2008 14:36:16



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.317	-0.047	Fluoride
2	3.96	0.332	0.028	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	9.70	1.502	0.009	Sulfate
6	12.00	2.151	0.084	

Handwritten 'OK' and a downward arrow are next to the concentration column.

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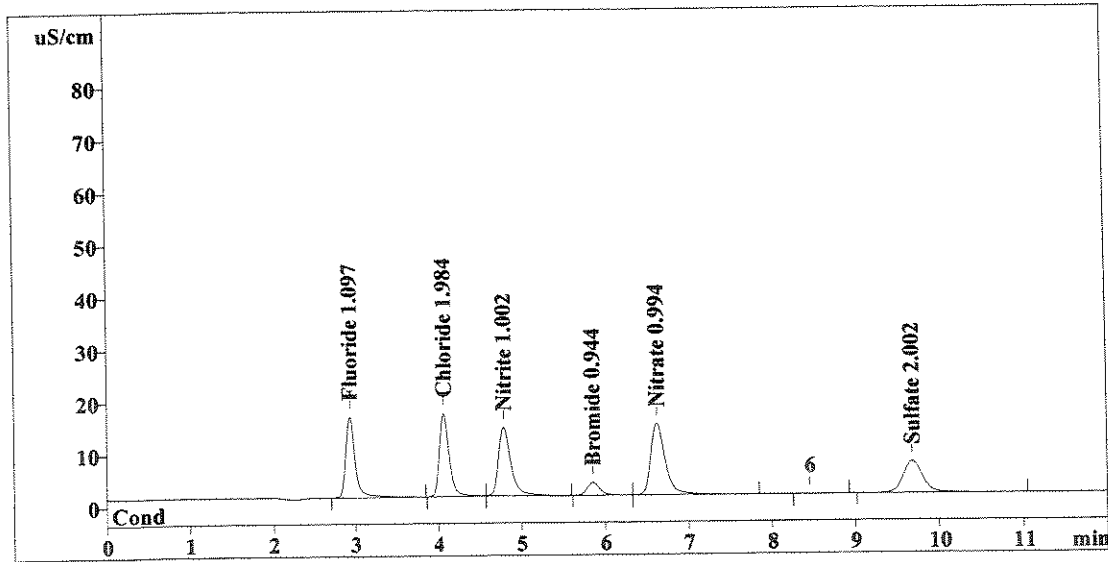
TC 6/23/08

Report date: 6/21/2008 15:23:35
 Printed by: User
 Ident: LCS
 Analysis from: 6/21/2008 15:11:37
 File: S6211511.CHW

Last save: 6/21/2008 15:23:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37356
 SAMPLE:
 Vial number: 119
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/21/2008 14:36:16



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	124.936	1.097	Fluoride
2	4.07	128.275	1.984	Chloride
3	4.79	136.802	1.002	Nitrite
4	5.86	26.014	0.944	Bromide
5	6.62	162.646	0.994	Nitrate
6	9.68	100.349	2.002	Sulfate
6	12.00	679.021	8.023	

OK
↓

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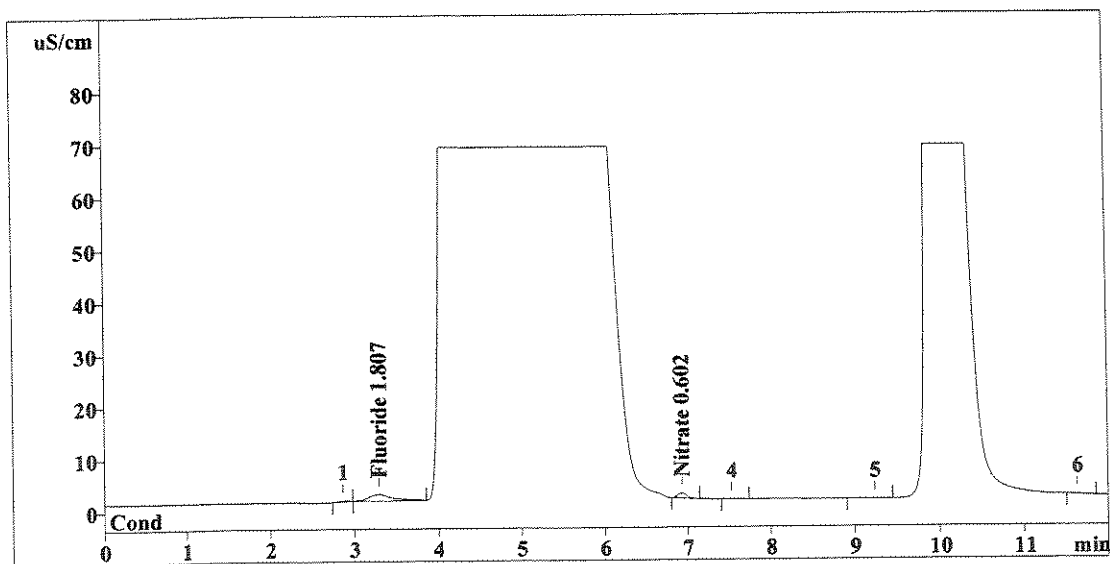
TC 6/23/08

Report date: 6/21/2008 15:37:41
 Printed by: User
 Ident: 1110981
 Analysis from: 6/21/2008 15:25:43
 File: S6211525.CHW

Last save: 6/21/2008 15:37:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37357
 SAMPLE: CNNS
 Vial number: 120
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/21/2008 14:36:16



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.28	25.142	1.807	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00 <i>not needed</i>	0.000	0.000	Bromide
5	6.93 <i>TC</i>	7.289	0.602	Nitrate
6	0.00 <i>6/23/08</i>	0.000	0.000	Sulfate
6	12.00	32.431	2.409	

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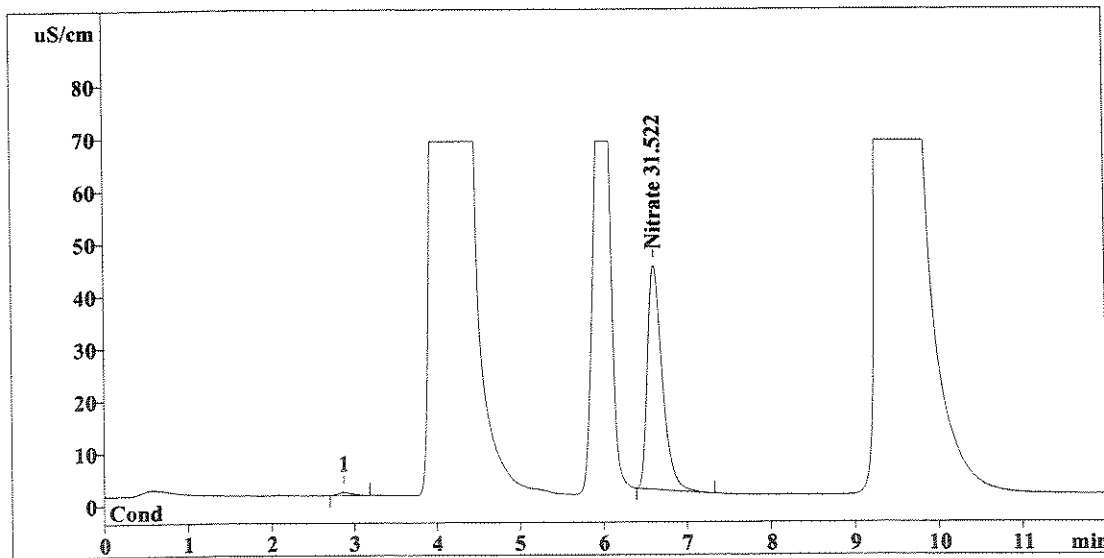
TC 6/23/08

Report date: 6/21/2008 15:51:47
 Printed by: User
 Ident: MC66BD
 Analysis from: 6/21/2008 15:39:49
 File: S6211539.CHW

Last save: 6/21/2008 15:51:45

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37358
 SAMPLE: CNNS
 Vial number: 121
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/21/2008 14:36:16



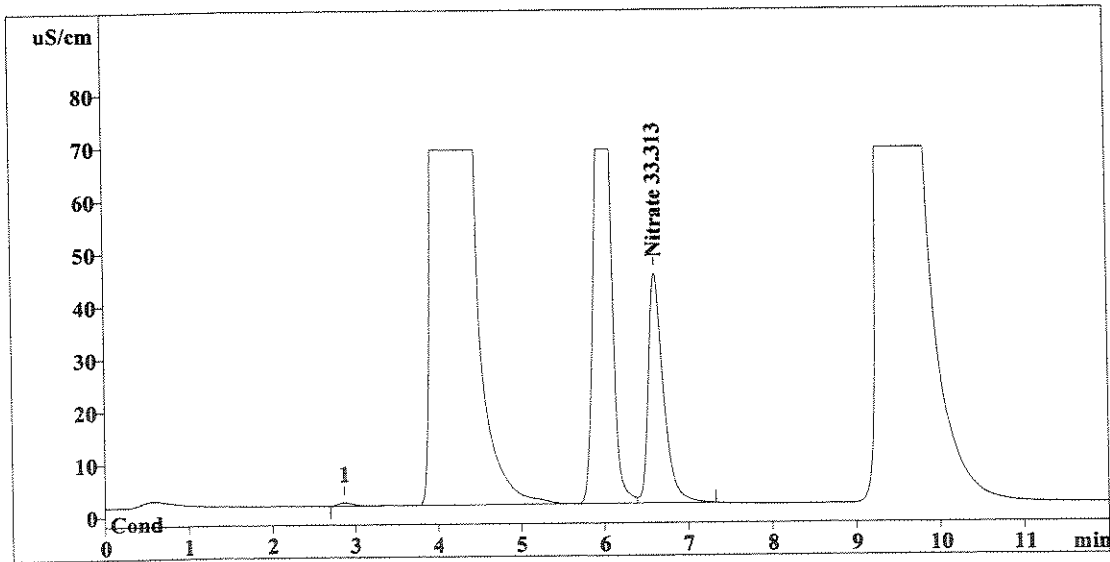
Quantitation method: Custom

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	6.61	521.557	31.522	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	521.557	31.522	

This report has been created by IC Net
 METROHM LTD

TC 6/23/08

Report date: 6/23/2008 14:23:01
 Printed by: User
 Ident: MC66BD ~~411205~~ 1111204
 Analysis from: 6/21/2008 15:39:49
 File: s6211539.chw *TC* Last save: 6/21/2008 15:51:45
 Modified! Manual peaks! *6/23/08*
 Method: 06-10-08CAL.mtw Last save: 6/21/2008 14:36:16
 Run operator: User
 Analysis number: 37358
 SAMPLE: CNNS
 Vial number: 121
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000



Quantitation method: Custom

*Reprocessed
TC 6/23/08*

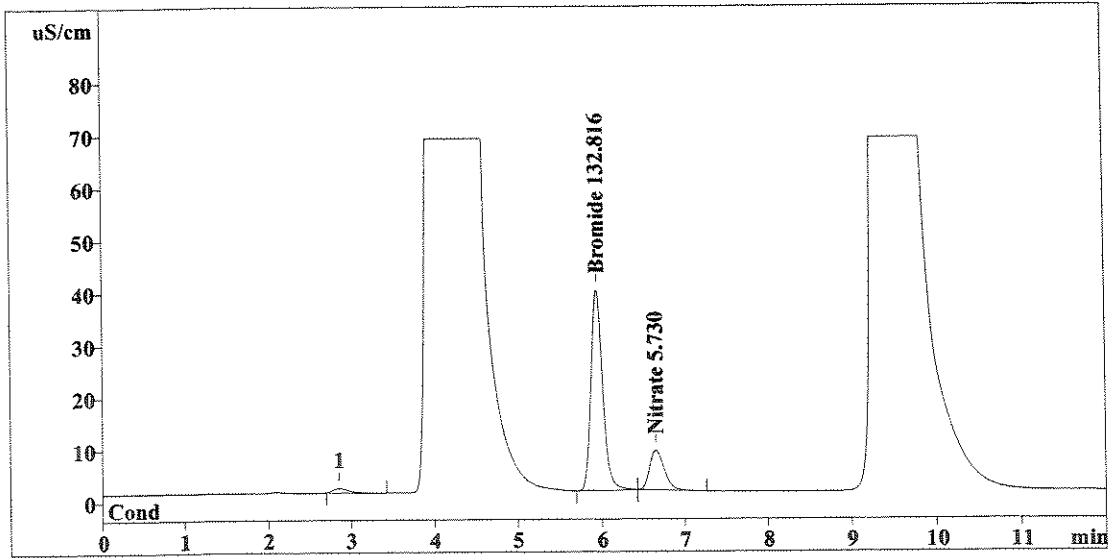
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.61	551.341	33.313	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	551.341	33.313	

This report has been created by IC Net
 METROHM LTD

*TC 6/23/08
SD 6/23/08*

Report date: 6/21/2008 16:05:53
 Printed by: User
 Ident: MC65B
 Analysis from: 6/21/2008 15:53:55
 File: S6211553.CHW
 Last save: 6/21/2008 16:05:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37359
 SAMPLE: CNNS
 Vial number: 122
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000
 Last save: 6/21/2008 14:36:16



Quantitation method: Custom

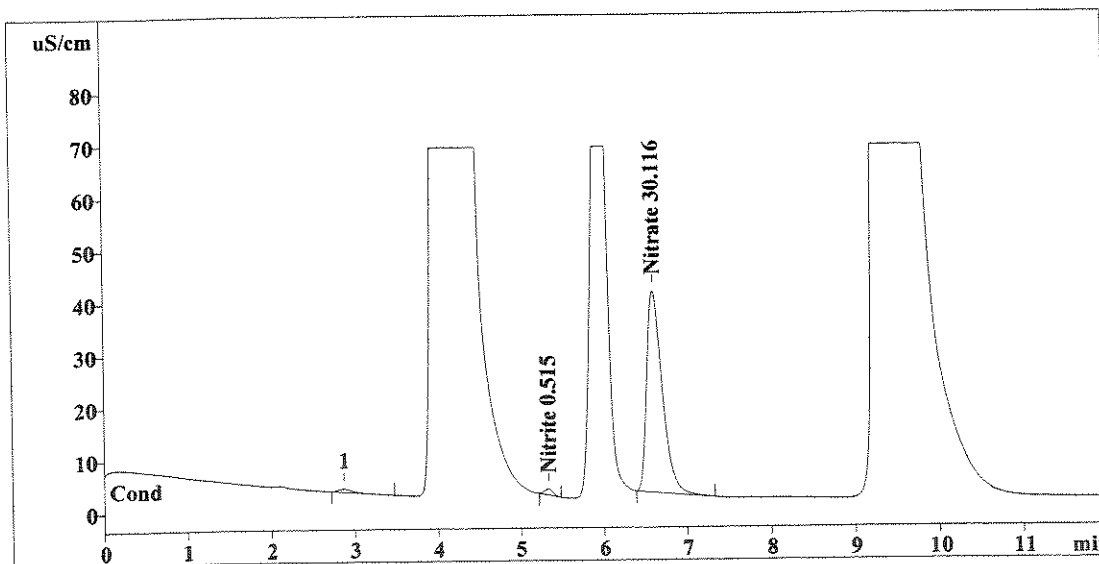
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.94	374.819	132.816	Bromide
5	6.65	92.571	5.730	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	467.390	138.546	

This report has been created by IC Net
 METROHM LTD

TC 6/23/08

Report date: 6/21/2008 16:20:00
 Printed by: User
 Ident: MC66B
 Analysis from: 6/21/2008 16:08:02
 File: S6211608.CHW
 Last save: 6/21/2008 16:19:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37360
 SAMPLE: CNNS
 Vial number: 123
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000
 Last save: 6/21/2008 14:36:16



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	5.33	7.728	0.515	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.60	498.169	30.116	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	505.897	30.631	

This report has been created by IC Net
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TC 6/23/08

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

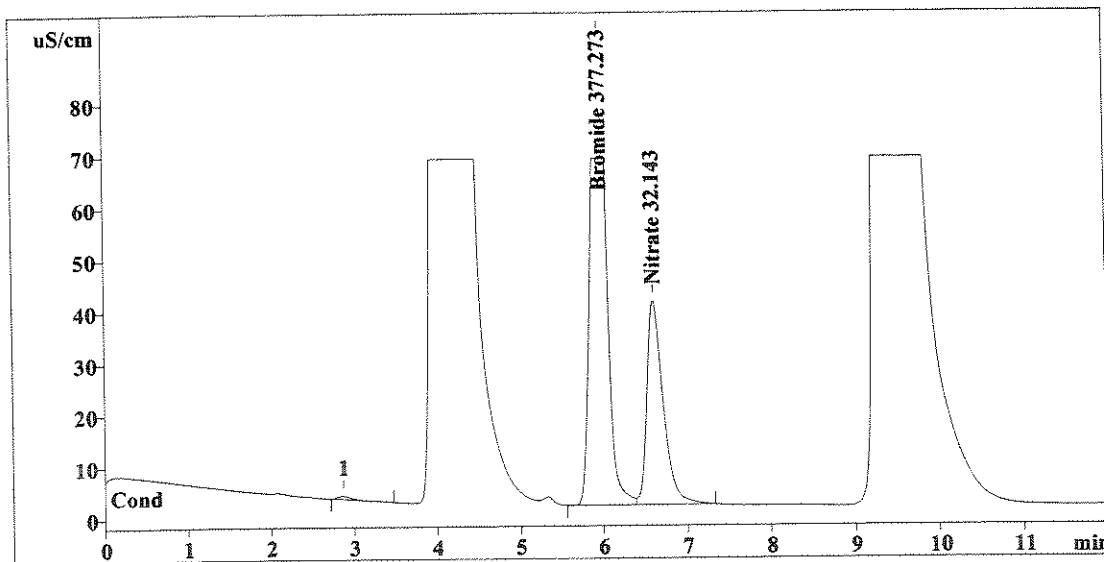
Method 300.0/9056

Report date: 6/23/2008 14:27:16
 Printed by: User
 Ident: MC66B
 Analysis from: 6/21/2008 16:08:02
 File: s6211608.chw
 Modified! Manual peaks!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37360
 SAMPLE: CNNS
 Vial number: 123
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

TC 6/23/08

Last save: 6/21/2008 16:19:58

Last save: 6/21/2008 14:36:16



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	5.97	1065.945	377.273	Bromide
5	6.60	531.884	32.143	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	1597.829	409.415	

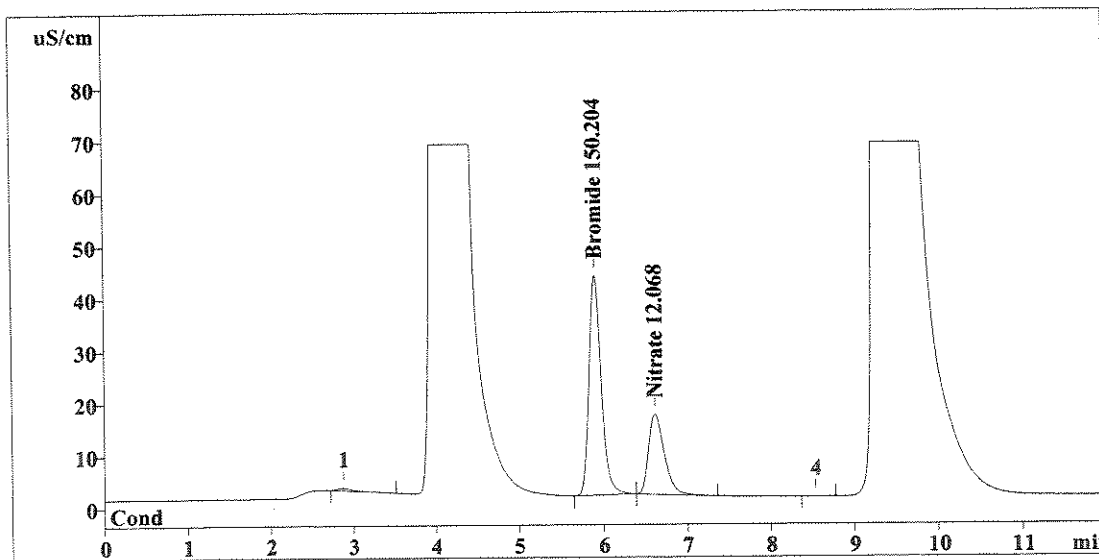
This report has been created by IC Net
 METROHM LTD

TC 6/23/08

SD 6/23/08

Report date: 6/21/2008 16:34:05
 Printed by: User
 Ident: PC37B
 Analysis from: 6/21/2008 16:22:07 TC
 File: S6211622.CHW 6/23/08 Last save: 6/21/2008 16:34:04

Method: 06-10-08CAL.mtw Last save: 6/21/2008 14:36:16
 Run operator: User
 Analysis number: 37361
 SAMPLE: CNNS
 Vial number: 124
 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	0.00	0.000	0.000	Nitrite
4	5.91	423.977	150.204	Bromide
5	6.62	197.993	12.068	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	621.970	162.272	

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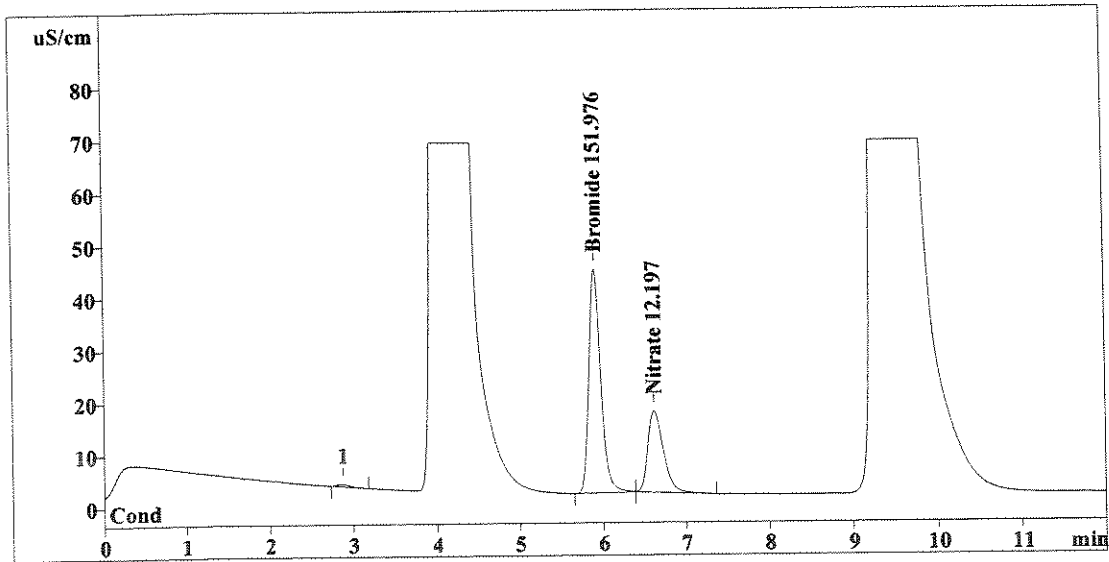
TC 6/23/08

Report date: 6/21/2008 16:48:11
 Printed by: User
 Ident: PC37B DUP *267 DUP*
 Analysis from: 6/21/2008 16:36:13
 File: S6211636.CHW

Last save: 6/21/2008 16:48:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37362
 SAMPLE: CNNS
 Vial number: 125
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/21/2008 14:36:16



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	5.91	428.989	151.976	Bromide
5	6.62	200.139	12.197	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	629.128	164.173	

This report has been created by IC Net
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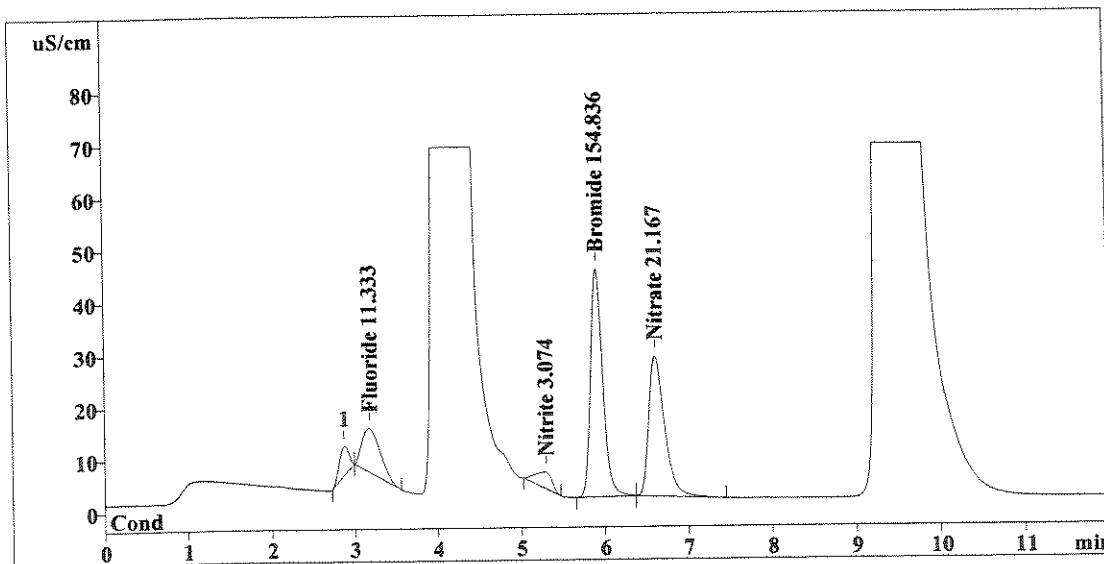
TC 6/23/08

Report date: 6/21/2008 17:02:17
 Printed by: User
 Ident: PC37B SPK *201 SPK*
 Analysis from: 6/21/2008 16:50:19
 File: S6211650.CHW

Last save: 6/21/2008 17:02:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37363
 SAMPLE: CNNS
 Vial number: 126
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/21/2008 14:36:16



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.18	128.864	11.333	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.30	42.488	3.074	Nitrite
4	5.91	437.075	154.836	Bromide
5	6.61	349.325	21.167	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	957.752	190.410	

Handwritten notes:
 1/400
 1/40
 OK
 1/400
 $\frac{12.068}{10} \times 100 = 91.0\%$

This report has been created by IC Net
 METROHM LTD

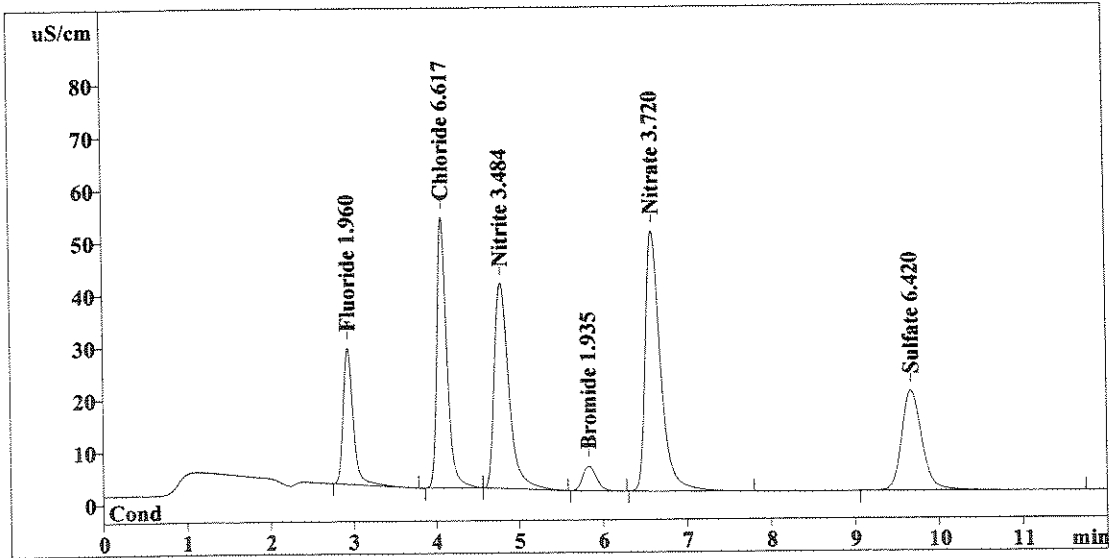
TC 6/23/08

Report date: 6/21/2008 17:16:23
 Printed by: User
 Ident: CCV
 Analysis from: 6/21/2008 17:04:25
 File: S6211704.CHW

Last save: 6/21/2008 17:16:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37364
 SAMPLE:
 Vial number: 127
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/21/2008 14:36:16



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	218.874	1.960	Fluoride
2	4.07	431.291	6.617	Chloride
3	4.78	474.115	3.484	Nitrite
4	5.83	54.041	1.935	Bromide
5	6.59	616.050	3.720	Nitrate
6	9.67	319.475	6.420	Sulfate
6	12.00	2113.847	24.136	

Handwritten notes: "Baseline is dropping" with an arrow pointing to the peak at 4.07 min. "analytes not reported" with an arrow pointing to the peak at 4.78 min. "OK" with arrows pointing to the peaks at 3.484 min and 3.720 min.

This report has been created by IC Net
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TE 6/23/08

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

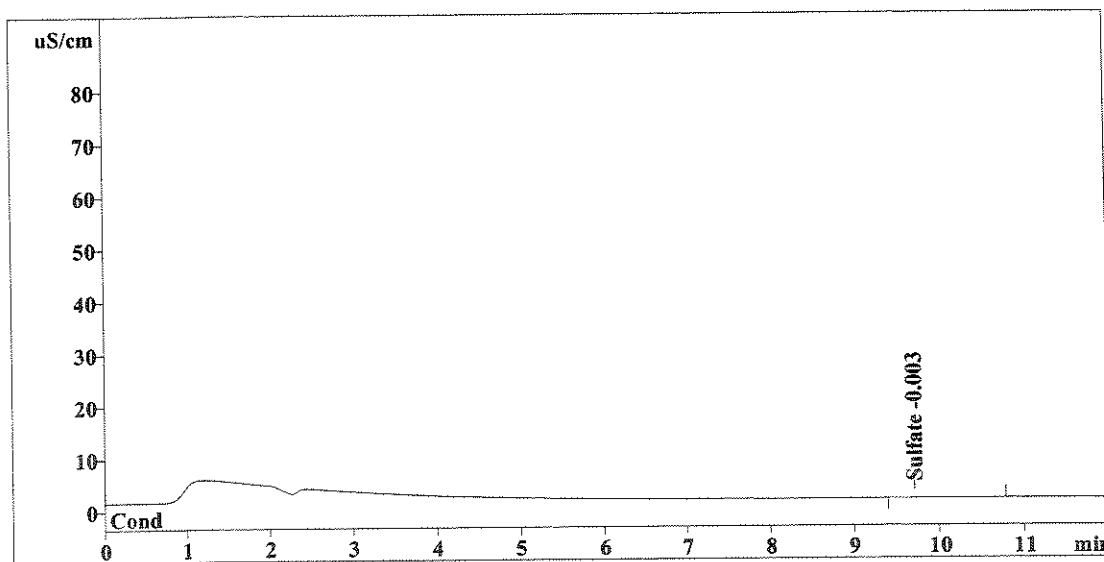
Method 300.0/9056

Report date: 6/21/2008 17:30:29
 Printed by: User
 Ident: CCB
 Analysis from: 6/21/2008 17:18:31
 File: S6211718.CHW

Last save: 6/21/2008 17:30:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37365
 SAMPLE:
 Vial number: 128
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/21/2008 14:36:16



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	9.71	0.901	-0.003	Sulfate
6	12.00	0.901	0.003	

OK
↓

TC 6/23/08

This report has been created by IC Net
 METROHM LTD

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
Chris Woods Analysis Date: 6/21/08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A	Working Calibration Stds	06/10/08	WC72050H
LCS / MS Intermediate	06/10/08	WC72050A	Working LCS/MS Standard	06/16/08	WC72093B
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	WC85097F	1000	10	200	50	TC	6/10/08	A	12/10/08	WC120050A
Cl	WC85106C	1000	20		100			B		
NO2	WC12001J	1000	10		50			C		
Br	WC85160D	1000	10	12/10/08	50			D		
NO3	WC12002N	1000	10		50			E		
OPO4	---	1000	10		50			F		
SO4	WC12001Y	1000	20		100			G		

02

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	5.0	5.0	10.0	TC	6/10/08	H	6/17/08	WC120050H
8		8.0	100	4.0	8.0	4.0	4.0	4.0	4.0	4.0	4.0	8.0	TC	6/23/08	I	6/29/08	WC120050I
7		205.0	205.0	2.5	5.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0			J		
6		2.0	100	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0			K		
5		1.0	100	0.5	1.0	0.50	0.50	0.50	0.50	0.50	0.50	1.0			L		
4		0.5	100	0.25	0.50	0.25	0.25	0.25	0.25	0.25	0.25	0.50			M		
3		0.2	100	0.10	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.20			N		
2		0.1	100	0.05	0.10	0.05	0.05	0.05	0.05	0.05	0.05	0.10			O		
1		0.0	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			P		

01504

Run #: 162807

Analyte: NITRITE 9056

NITRITE NITROGEN (NO2) AS N BY ION CHROM

Printed: 06/24/08 09:01

44538

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED		DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT						ANALYZED		
ESMP	R2844538	1110981	WATER	5.00	U	100.0	0.05			06/23/08	RUN	ASPB
CHK5		1111586	WATER	3.55		1.0	0.05	98.6		06/23/08		
BLK4		1111587	WATER	0.0500	U	1.0	0.05			06/23/08		
SPKB		1111588	WATER	1.01		1.0	0.05	101.3		06/23/08		
ESMP	R2844538	1111264	WATER	5.00	U	100.0	0.05			06/23/08	RUN	ASPB
ESMP	R2844538	1111265	WATER	5.00	U	100.0	0.05			06/23/08	RUN	ASPB
ESMP	R2844538	1111266	WATER	5.00	U	100.0	0.05			06/23/08	RUN	ASPB
ESMP	R2844538	1111267	WATER	5.00	U	100.0	0.05			06/23/08	RUN	ASPB
LDUP		1111589	WATER	5.00	U	100.0	0.05			06/23/08		
SPK1		1111590	WATER	104		100.0	0.05	103.9		06/23/08		

Records printed: 10

Reviewed & Approved

By: Siddh

Date: 6/28/08

6/23/08

Results Entered Manually!

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	ANALYSF: TC	
Columbia-no dilution	CCB	2	1.0	1.0	1.0	100.0	0	1	1	PIPETTES: LUCY, MINE	
Columbia-no dilution	LCS	3	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	1110981 R-44538	4	1.0	40.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	MC668D	5	1.0	40.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	MC65B	6	1.0	40.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	MC66B	7	1.0	40.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	PC 37B	8	1.0	40.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	PC 37B DUP	9	1.0	40.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	PC 37B SPK	10	1.0	40.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	1110981	11	1.0	100.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	MC668D	12	1.0	100.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	MC65B	13	1.0	100.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	MC66B	14	1.0	100.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	PC 37B	15	1.0	100.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	PC 37B DUP	16	1.0	100.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	PC 37B SPK	17	1.0	100.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution	CCV	18	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	CCB	19	1.0	1.0	1.0	100.0	0	1	1		

works updated

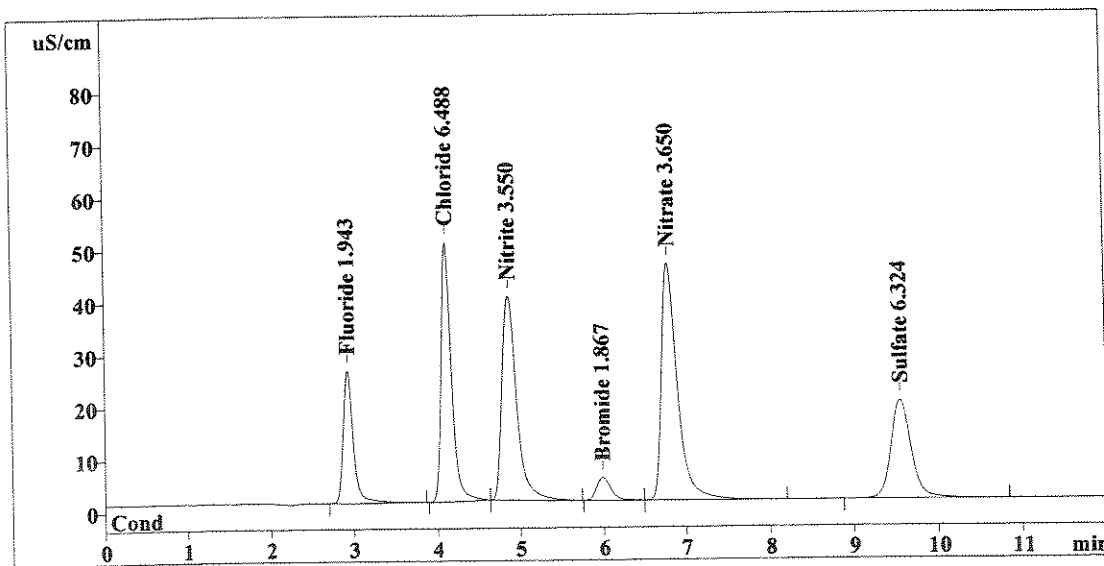
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/23/2008 11:08:25
 Printed by: User
 Ident: CCV
 Analysis from: 6/23/2008 10:56:27
 File: S6231056.CHW

Method 300.0/9056

Last save: 6/23/2008 11:08:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37367
 SAMPLE: ANALYST: TC
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	217.051	1.943	Fluoride
2	4.11	422.856	6.488	Chloride
3	4.86	483.071	3.550	Nitrite
4	5.99	52.101	1.867	Bromide
5	6.79	604.309	3.650	Nitrate
6	9.56	314.759	6.324	Sulfate
6	12.00	2094.148	23.822	

OK
↓

This report has been created by IC Net
 METROHM LTD

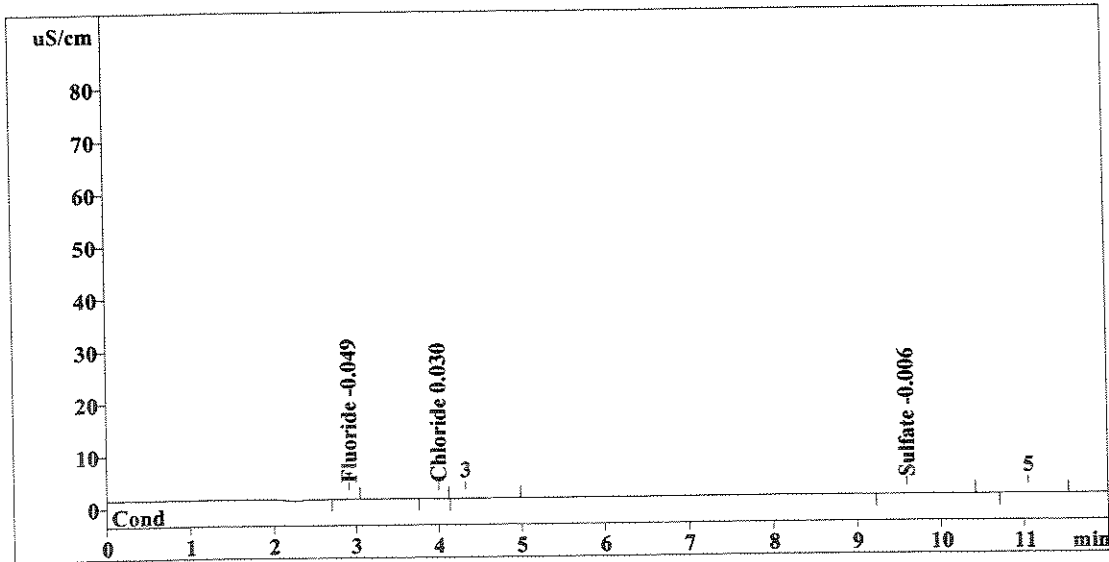
TC 6/24/08

Report date: 6/23/2008 11:22:31
 Printed by: User
 Ident: CCB
 Analysis from: 6/23/2008 11:10:33
 File: S6231110.CHW

Last save: 6/23/2008 11:22:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37368
 SAMPLE: PIPETTES: LUCY, MINE
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.078	-0.049	Fluoride
2	4.00	0.469	0.030	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	9.59	0.774	-0.006	Sulfate
6	12.00	1.321	0.086	

OIL
↓

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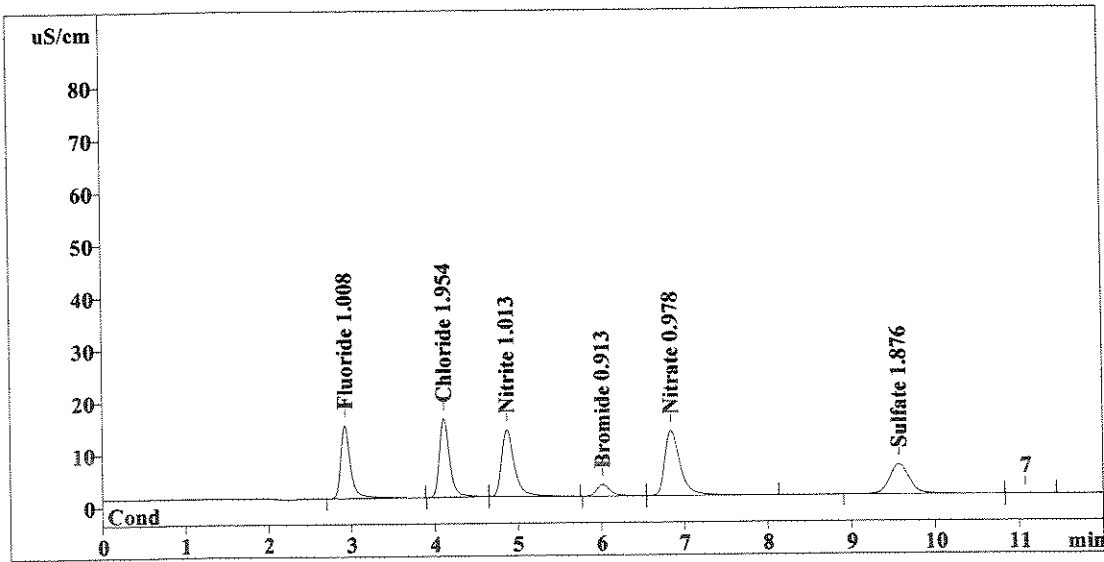
TC 6/24/08

Report date: 6/23/2008 11:36:37
 Printed by: User
 Ident: LCS
 Analysis from: 6/23/2008 11:24:38
 File: S6231124.CHW

Last save: 6/23/2008 11:36:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37369
 SAMPLE:
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	115.231	1.008	Fluoride
2	4.11	126.300	1.954	Chloride
3	4.87	138.429	1.013	Nitrite
4	6.02	25.121	0.913	Bromide
5	6.84	159.977	0.978	Nitrate
6	9.57	94.125	1.876	Sulfate
6	12.00	659.183	7.743	

OK
↓

This report has been created by IC Net
 METROHM LTD

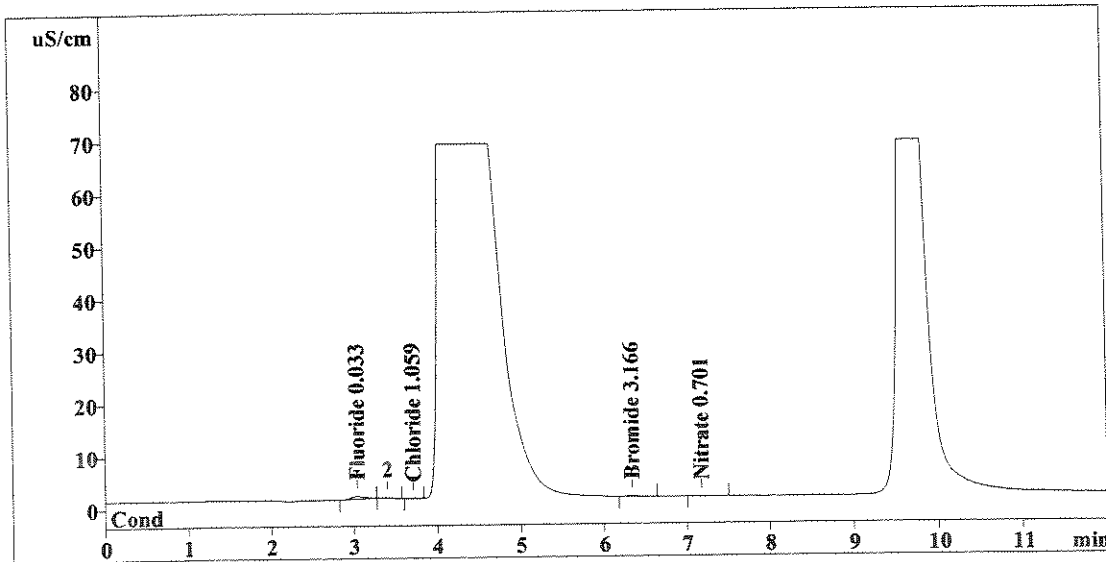
TC 6/24/08

Report date: 6/23/2008 12:12:08
 Printed by: User
 Ident: 1110981 R-44538
 Analysis from: 6/23/2008 12:00:10
 File: S6231200.CHW

Last save: 6/23/2008 12:12:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37370
 SAMPLE: CNNS
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.04	5.554	0.033	Fluoride
2	3.72	0.211	1.059	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.34	1.560	3.166	Bromide
5	7.18	0.184	0.701	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	7.509	4.959	

Handwritten notes in table:
 - Next to 0.033: 1/4000
 - Next to 1.059: 1/100
 - Next to 0.184: reported 1/10
 - Next to 0.701: on 6/23/08
 - Next to 0.000: 1/400

This report has been created by IC Net
 METROHM LTD

TC 6/24/08

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

Method 300.0/9056

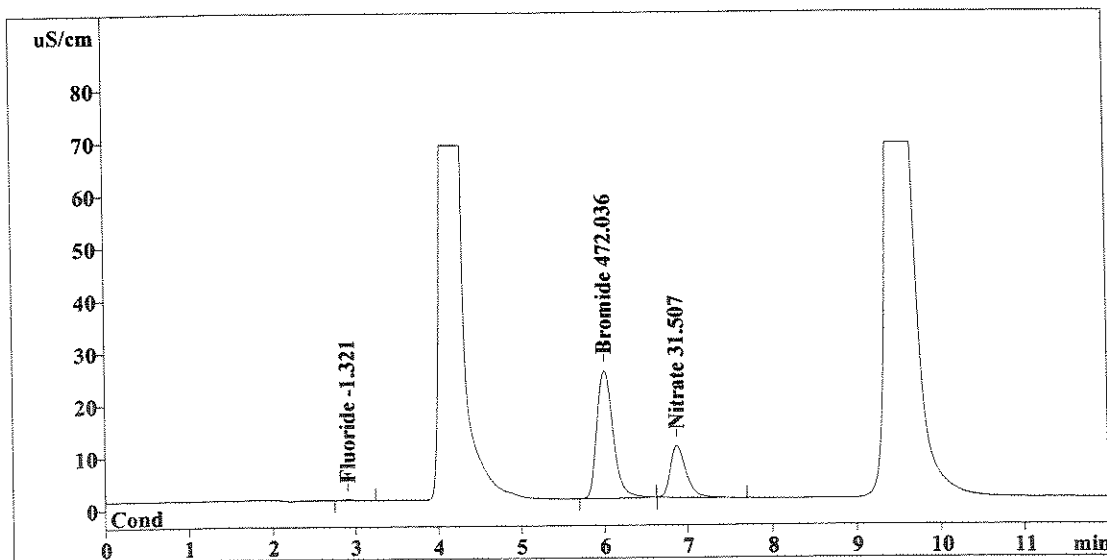
Report date: 6/23/2008 12:26:14
 Printed by: User
 Ident: MC66BD
 Analysis from: 6/23/2008 12:14:16
 File: S6231214.CHW

R. 44533

Last save: 6/23/2008 12:26:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37371
 SAMPLE: CNNS
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	1.870	-1.321	Fluoride
2	0.00	0.000	^{1/400} 0.000	Chloride
3	0.00	0.000	^{1/100} 0.000	Nitrite
4	6.01	332.957	472.036	Bromide
5	6.87	128.281	reported ^{1/10} 31.507 ^{10/121}	Nitrate
6	0.00	0.000	^{1/400} 0.000	Sulfate
6	12.00	463.108	504.864	

This report has been created by IC Net
 METROHM LTD

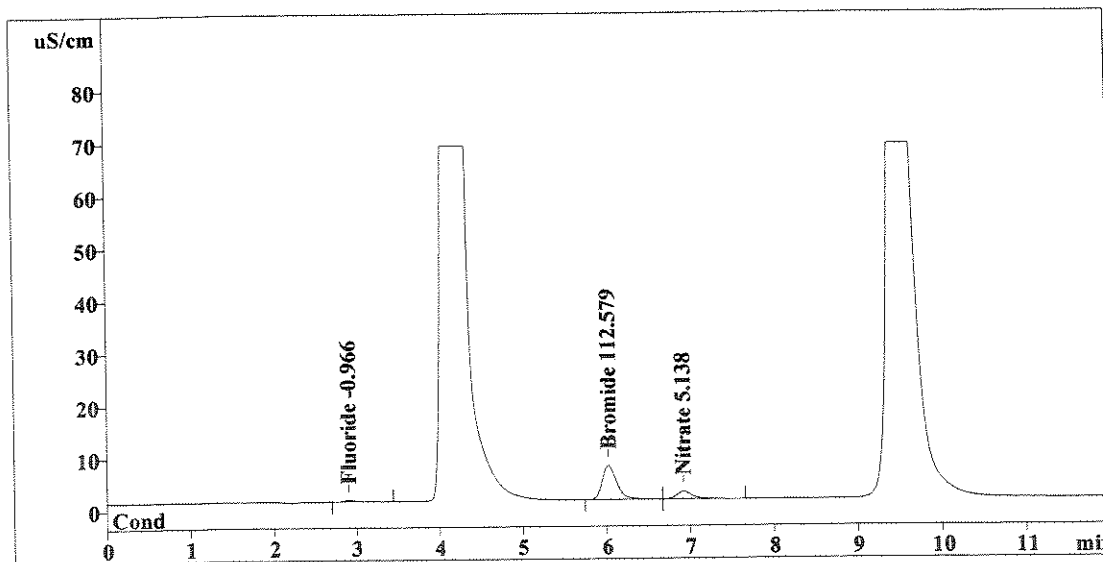
TC 6124108

Report date: 6/23/2008 12:40:20
 Printed by: User
 Ident: MC65B
 Analysis from: 6/23/2008 12:28:22
 File: S6231228.CHW

Last save: 6/23/2008 12:40:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37372
 SAMPLE: CNNS
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	2.837	-0.966	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.02	78.892	112.579	Bromide
5	6.92	18.636	5.138	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	100.365	118.683	

This report has been created by IC Net
 METROHM LTD

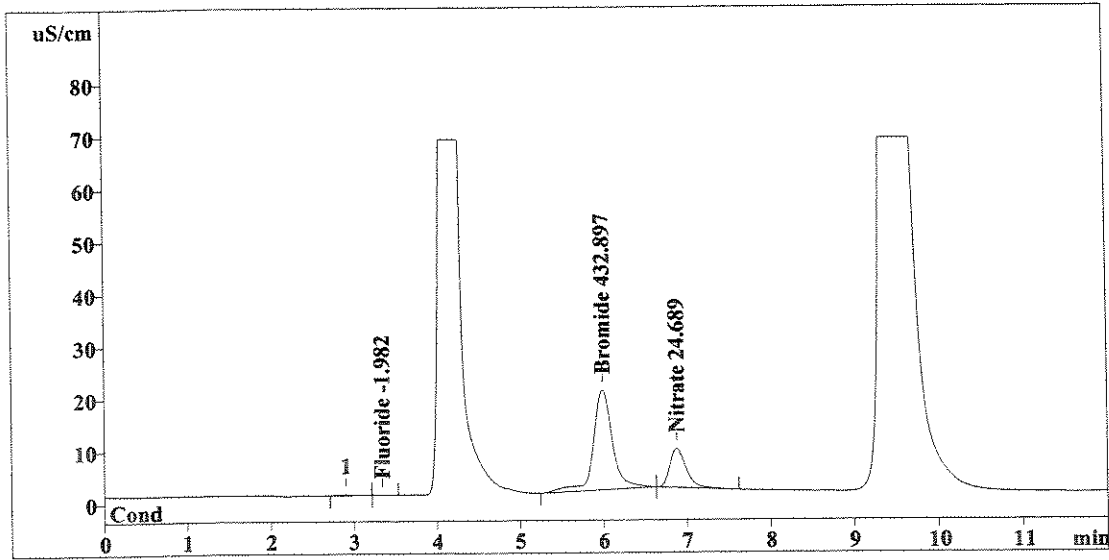
70 6/24/08

Report date: 6/23/2008 12:54:26
 Printed by: User
 Ident: MC66B 1111266
 Analysis from: 6/23/2008 12:42:28
 File: S6231242.CHW

Last save: 6/23/2008 12:54:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37373
 SAMPLE: CNNS
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.071	-1.982	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	305.293	432.897	Bromide
5	6.88	99.931	24.689	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	405.295	459.568	

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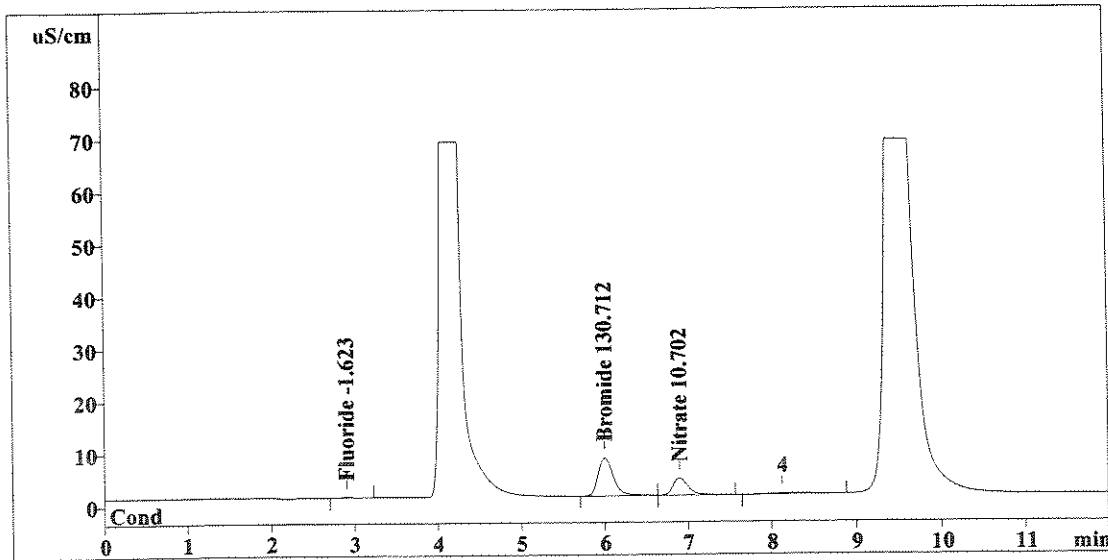
TC 6/24/08

Report date: 6/23/2008 13:08:32
 Printed by: User
 Ident: PC 37B *111257*
 Analysis from: 6/23/2008 12:56:34
 File: S6231256.CHW

Last save: 6/23/2008 13:08:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37374
 SAMPLE: CNNS
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	1.047	-1.623	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.00	91.709	130.712	Bromide
5	6.90	41.772	10.702	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	134.528	143.037	

Handwritten notes in table:
 - Next to 1.047: $\frac{1}{400}$
 - Next to 0.000 (row 2): $\frac{1}{100}$
 - Next to 41.772: *reported 1/10*
 - Next to 0.000 (row 6): $\frac{1}{400}$
 - Next to 10.702: *on 6/24*

TC 6/24/08

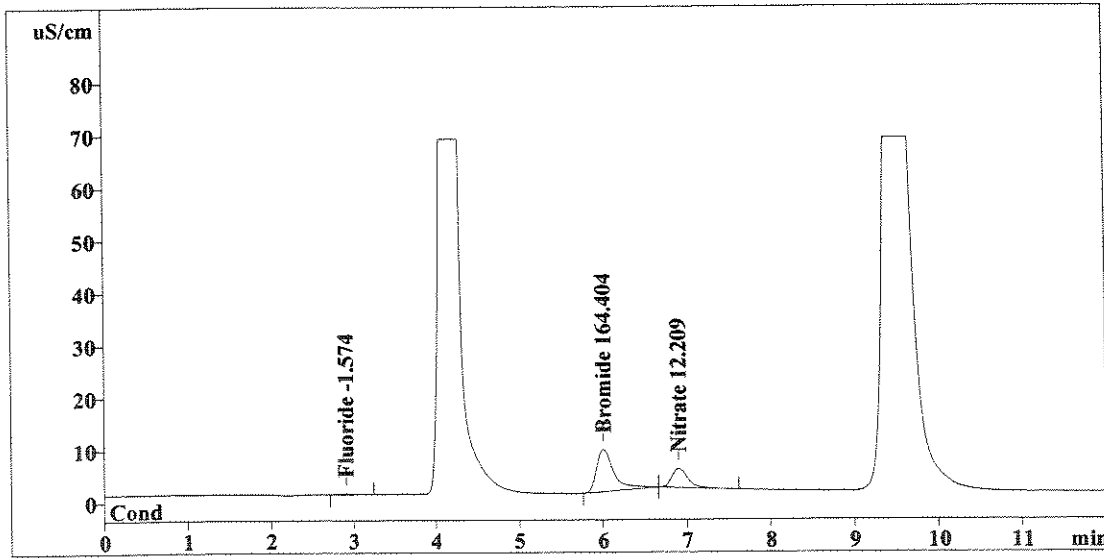
This report has been created by IC Net
 METROHM LTD

Report date: 6/23/2008 13:22:38
 Printed by: User
 Ident: PC 37B DUP *WTDUP*
 Analysis from: 6/23/2008 13:10:40
 File: S6231310.CHW

Last save: 6/23/2008 13:22:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37375
 SAMPLE: CNNS
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	1.181	-1.574	Fluoride
2	0.00	0.000	^{1/400} 0.000	Chloride
3	0.00	0.000	^{1/100} 0.000	Nitrite
4	6.01	115.522	164.404	Bromide
5	6.90	48.039	reported ^{1/10} 12.209 on 6/21	Nitrate
6	0.00	0.000	^{1/400} 0.000	Sulfate
<hr/>				
6	12.00	164.742	178.187	

This report has been created by IC Net
 METROHM LTD

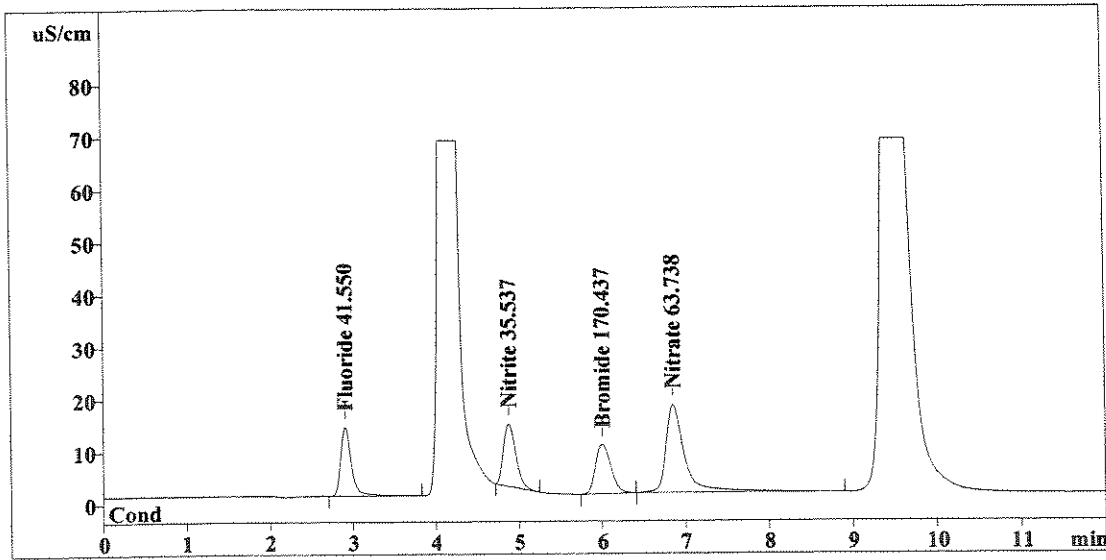
TC 6124108

Report date: 6/23/2008 13:36:44
 Printed by: User
 Ident: PC 37B SPK
 Analysis from: 6/23/2008 13:24:45
 File: S6231324.CHW

Last save: 6/23/2008 13:36:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37376
 SAMPLE: CNNS
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	118.569	41.550	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.87	121.437	35.537	Nitrite
4	6.01	119.786	170.437	Bromide
5	6.85	262.298	63.738	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	622.091	311.262	

This report has been created by IC Net
 METROHM LTD

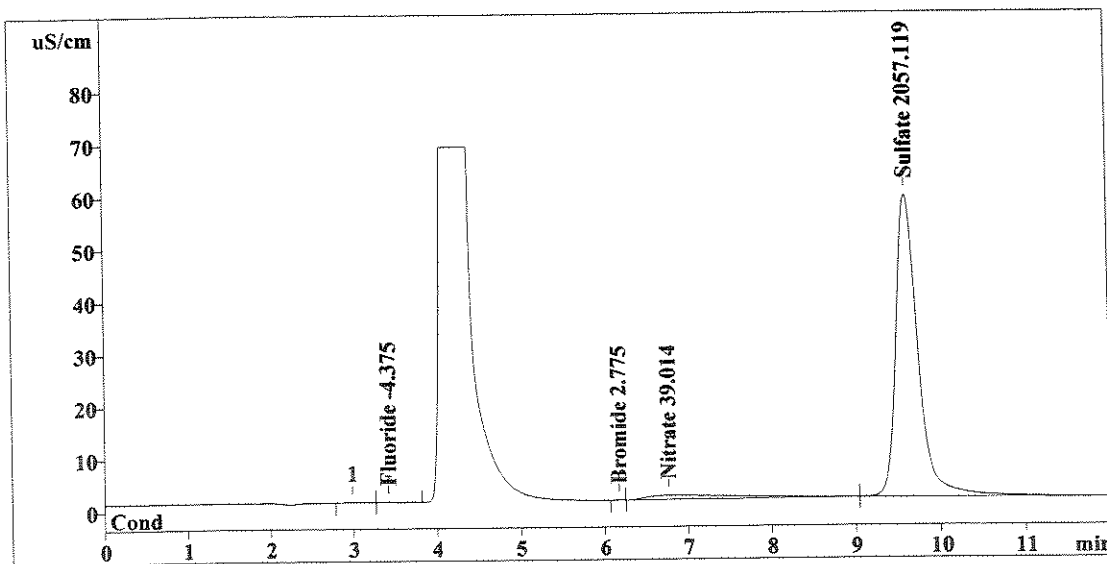
TC 6124108

Report date: 6/23/2008 13:50:49
 Printed by: User
 Ident: 1110981
 Analysis from: 6/23/2008 13:38:51
 File: S6231338.CHW

Last save: 6/23/2008 13:50:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37377
 SAMPLE: CNNS
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.42	0.702	-4.375	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.17	0.106	2.775	Bromide
5	6.76	62.160	39.014	Nitrate
6	9.61	1021.387	2057.119	Sulfate
6	12.00	1084.355	2103.282	

Handwritten notes in table:
 - Next to 0.000 (row 2): 1/400
 - Next to 0.000 (row 3): OK
 - Next to 62.160 (row 5): reported 1/10
 - Next to 1021.387 (row 6): 1/400

This report has been created by IC Net
 METROHM LTD

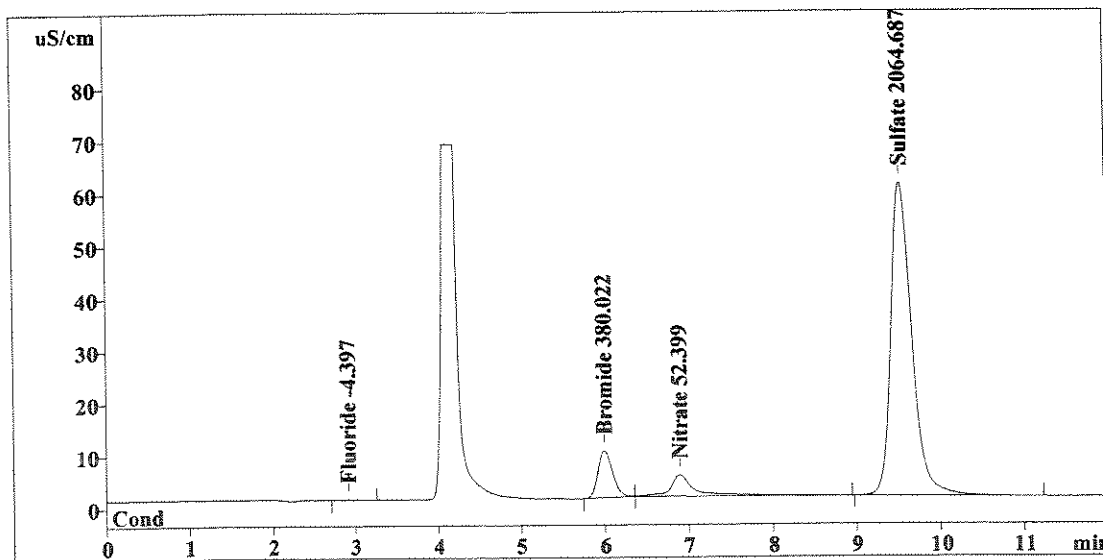
TC 6/24/08

Report date: 6/23/2008 14:04:55
 Printed by: User
 Ident: MC66BD 111264
 Analysis from: 6/23/2008 13:52:57
 File: S6231352.CHW

Last save: 6/23/2008 14:04:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37378
 SAMPLE: CNNS
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.678	-4.397	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.00	106.761	380.022	Bromide
5	6.90	84.423	52.399	Nitrate
6	9.54	1025.141	2064.687	Sulfate
6	12.00	1217.003	2501.504	

Handwritten notes: 1/400 OK, reported 1/10, 1/400

This report has been created by IC Net
 METROHM LTD

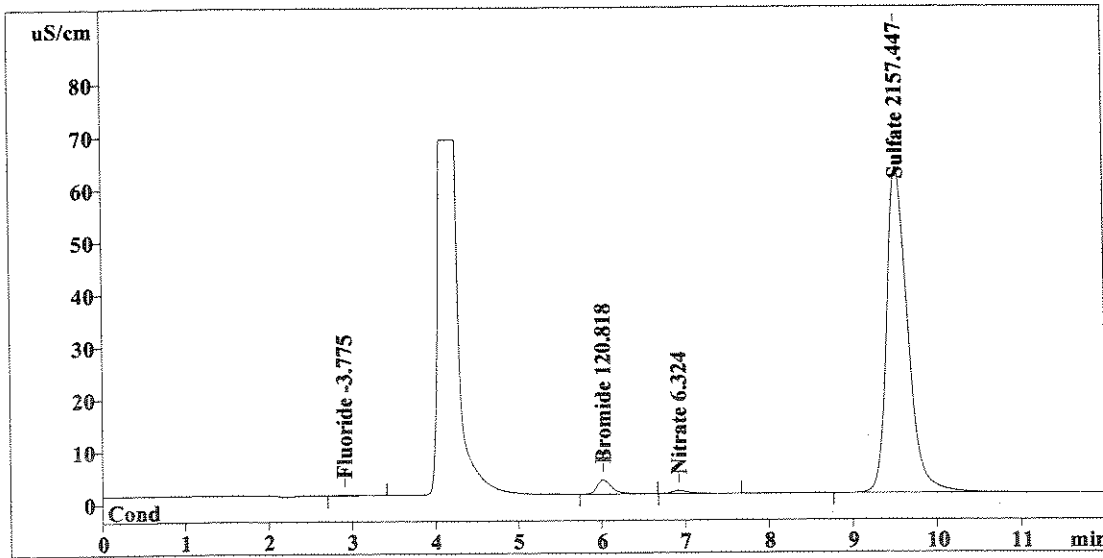
TC 6/24/08

Report date: 6/23/2008 14:19:01
 Printed by: User
 Ident: MC65B 111205
 Analysis from: 6/23/2008 14:07:03
 File: S6231407.CHW

Last save: 6/23/2008 14:19:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37379
 SAMPLE: CNNS
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	1.355	-3.775	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.02	33.479	120.818	Bromide
5	6.93	7.789	6.324	Nitrate
6	9.54	1071.149	2157.447	Sulfate
6	12.00	1113.773	2288.365	

Handwritten notes: 1/400, OK, reported 1/10, 1/400, on 6/21

This report has been created by IC Net
 METROHM LTD

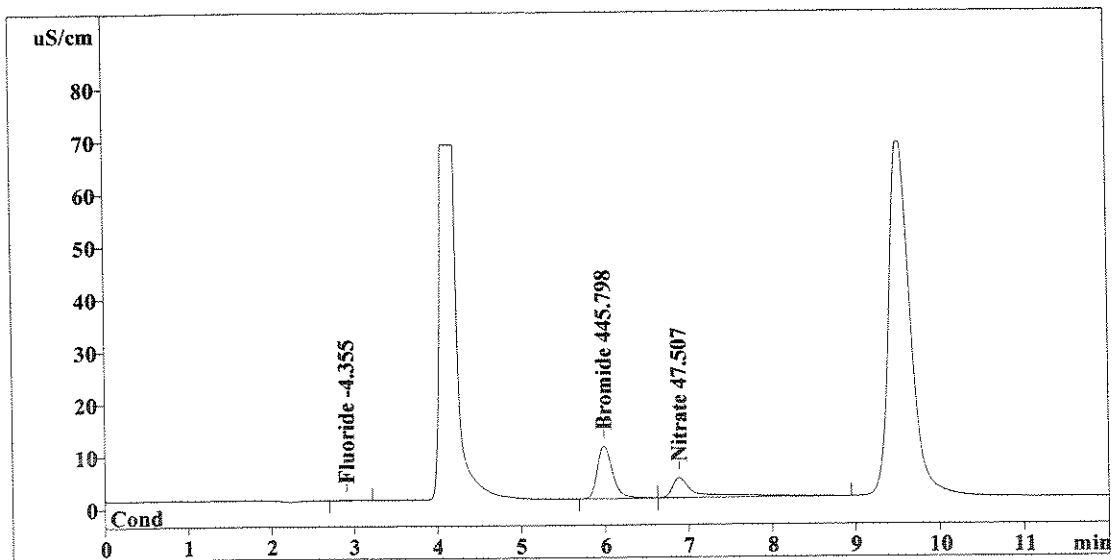
TC 6/24/08

Report date: 6/23/2008 14:33:07
 Printed by: User
 Ident: MC66B *111200*
 Analysis from: 6/23/2008 14:21:09
 File: S6231421.CHW

Last save: 6/23/2008 14:33:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37380
 SAMPLE: CNNS
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.724	-4.355	Fluoride
2	0.00	0.000	<i>1/400</i> 0.000	Chloride
3	0.00	0.000	<i>OK</i> 0.000	Nitrite
4	5.99	125.358	445.798	Bromide
5	6.89	76.286	<i>reported 1/10</i> 47.507 <i>on 6/21</i>	Nitrate
6	0.00	0.000	<i>1/400</i> 0.000	Sulfate
6	12.00	202.367	497.660	

This report has been created by IC Net
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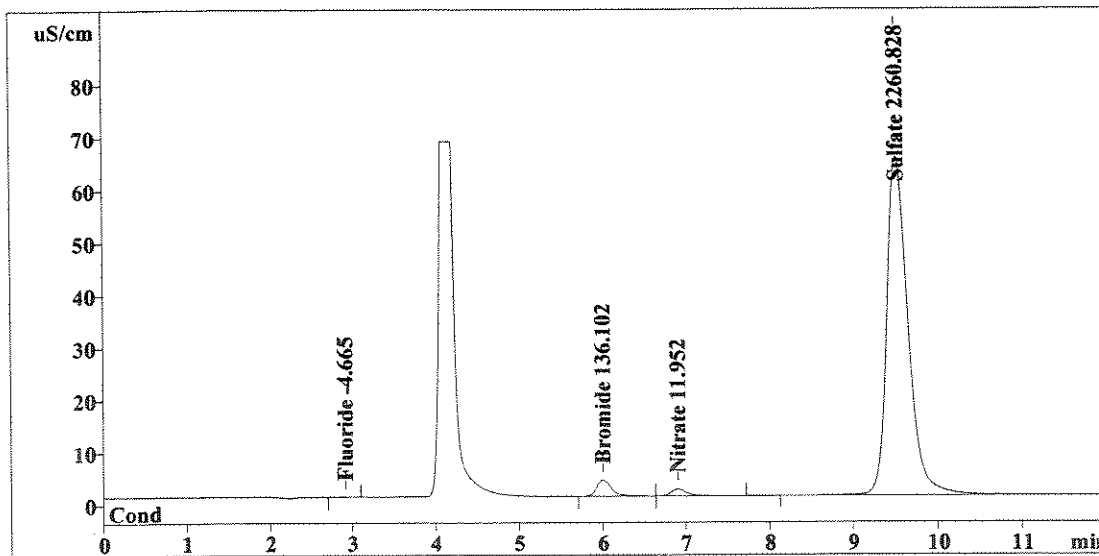
TC 6/24/08

Report date: 6/23/2008 14:47:13
 Printed by: User
 Ident: PC 37B 114267
 Analysis from: 6/23/2008 14:35:15
 File: S6231435.CHW

Last save: 6/23/2008 14:47:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37381
 SAMPLE: CNNS
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.387	-4.665	Fluoride
2	0.00	0.000	1/400 0.000	Chloride
3	0.00	0.000	OK 0.000	Nitrite
4	6.01	37.800	136.102	Bromide
5	6.91	17.150	reported 1/10 11.952 on 6/21	Nitrate
6	9.53	1122.425	1/400 2260.828	Sulfate
6	12.00	1177.762	2413.547	

This report has been created by IC Net
 METROHM LTD

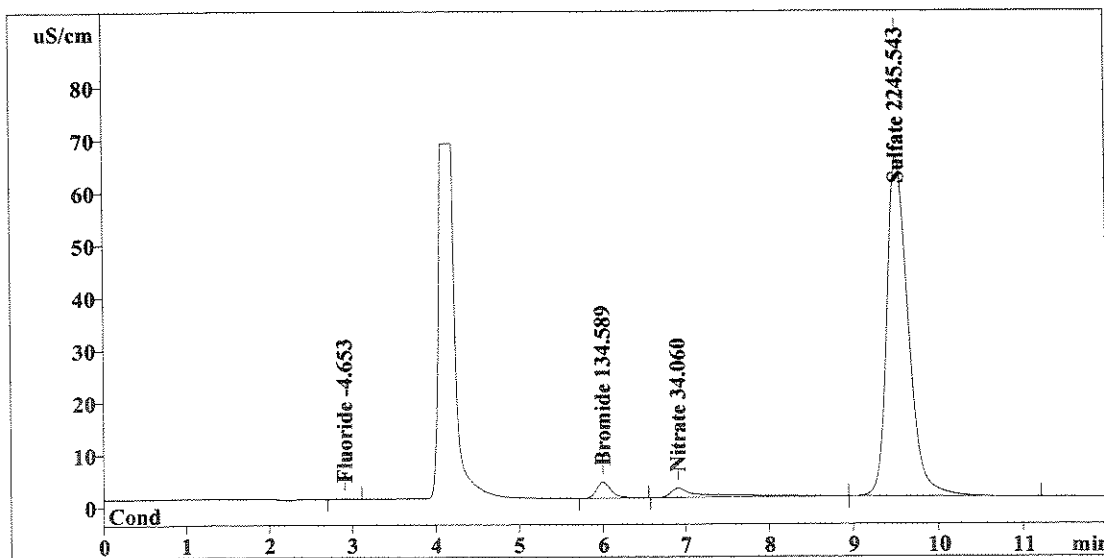
TC 6/24/08

Report date: 6/23/2008 15:01:19
 Printed by: User
 Ident: PC 37B DUP *207 DUP*
 Analysis from: 6/23/2008 14:49:21
 File: S6231449.CHW

Last save: 6/23/2008 15:01:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37382
 SAMPLE: CNNS
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.399 <i>TC 6/24/08</i>	-4.653	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.00	37.373	134.589	Bromide
5	6.91	53.920	34.060	Nitrate
6	9.53	1114.844	2245.543	Sulfate
<hr/>				
6	12.00	1206.536	2418.846	

This report has been created by IC Net
 METROHM LTD

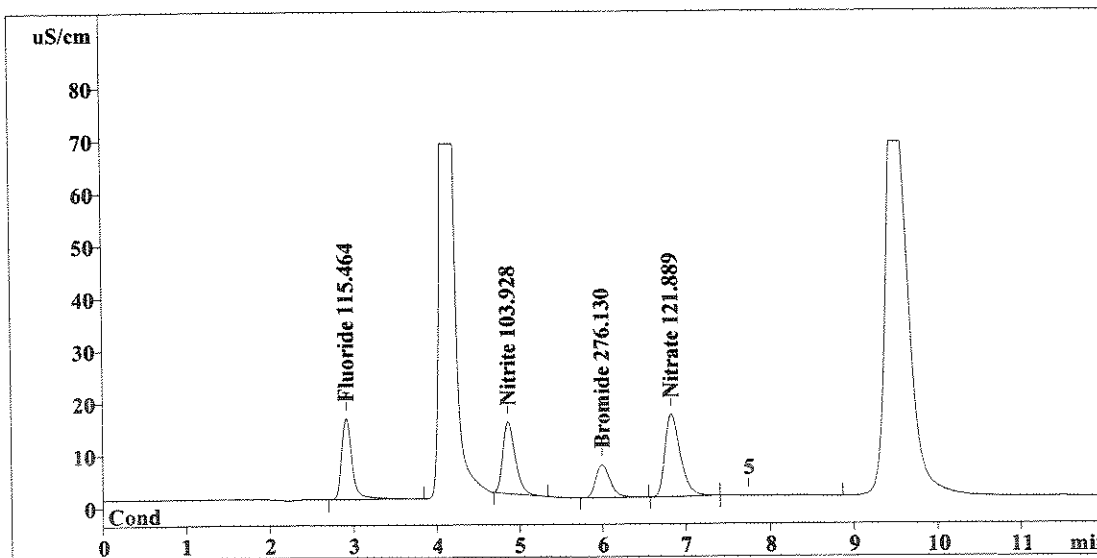
TC 6/24/08

Report date: 6/23/2008 15:15:25
 Printed by: User
 Ident: PC 37B SPK
 Analysis from: 6/23/2008 15:03:27
 File: S6231503.CHW

Last save: 6/23/2008 15:15:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37383
 SAMPLE: CNNS
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	131.188	115.464	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.87	141.933	103.928	Nitrite $\frac{0.00}{100} \times 100 = 103.9\%$
4	6.00	77.389	276.130	Bromide
5	6.83	200.001	121.889	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	550.511	617.412	

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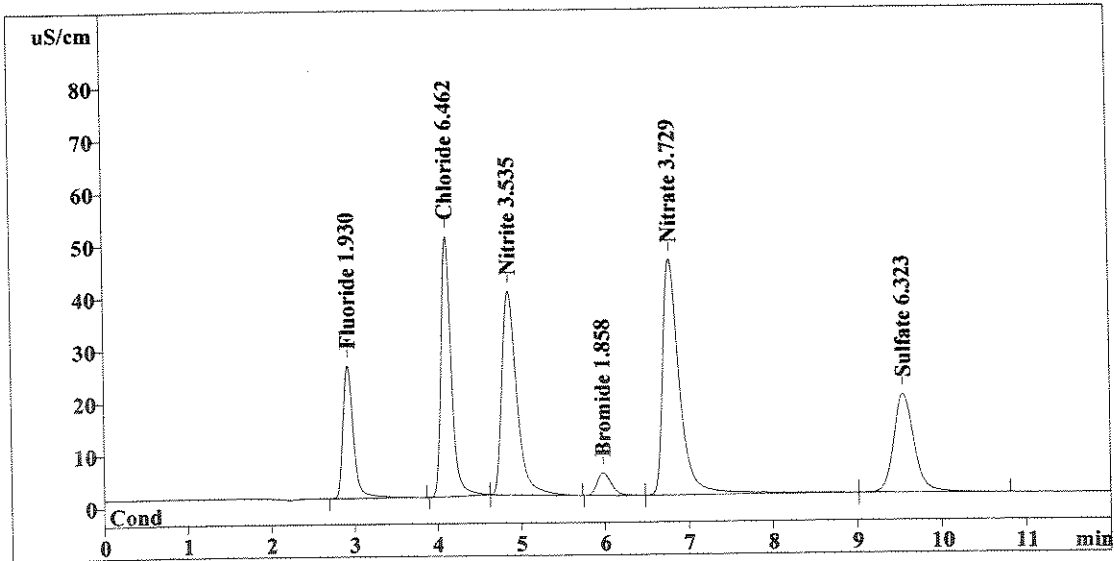
TC 6/24/08

Report date: 6/23/2008 15:29:31
 Printed by: User
 Ident: CCV
 Analysis from: 6/23/2008 15:17:32
 File: S6231517.CHW

Last save: 6/23/2008 15:29:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37384
 SAMPLE:
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	215.625	1.930	Fluoride
2	4.11	421.185	6.462	Chloride
3	4.86	481.087	3.535	Nitrite
4	5.98	51.841	1.858	Bromide
5	6.79	617.556	3.729	Nitrate
6	9.55	314.672	6.323	Sulfate
<hr/>				
6	12.00	2101.966	23.838	

OK
↓

This report has been created by IC Net
 METROHM LTD

TC 6/24/08

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

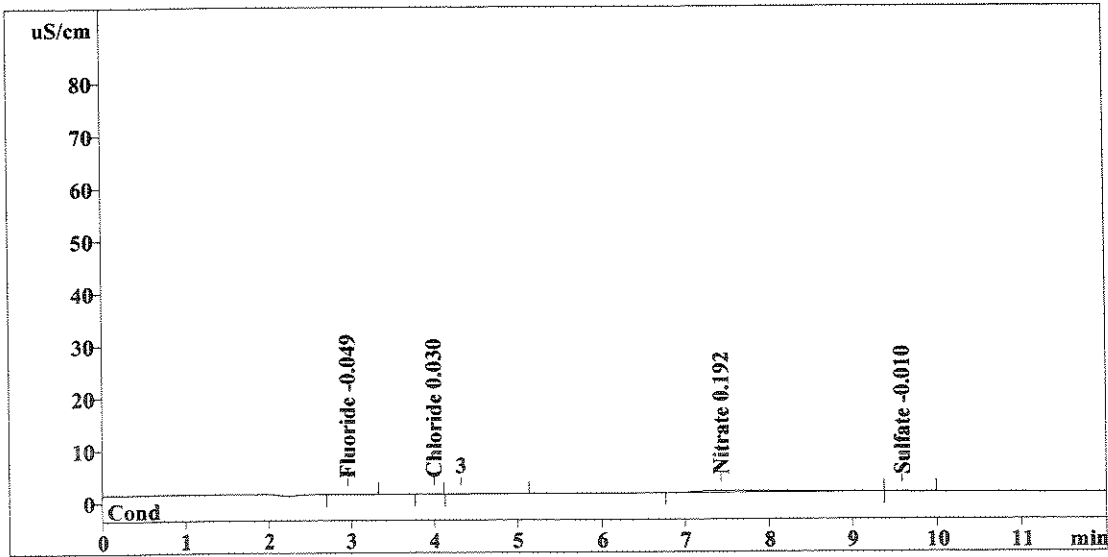
Method 300.0/9056

Report date: 6/23/2008 15:43:36
 Printed by: User
 Ident: CCB
 Analysis from: 6/23/2008 15:31:38
 File: S6231531.CHW

Last save: 6/23/2008 15:43:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37385
 SAMPLE:
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/23/2008 10:54:04



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	0.183	-0.049	Fluoride
2	4.00	0.464	0.030	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.43	29.190	0.192	Nitrate
6	9.60	0.575	-0.010	Sulfate
6	12.00	30.412	0.281	

Handwritten notes: 'OK' with a downward arrow pointing to the Nitrate row, and 'High OK' with a downward arrow pointing to the Sulfate row. A note 'none reported' is written next to the Nitrate concentration.

This report has been created by IC Net
 METROHM LTD

TC 6/24/08

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: 06/23/08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A	Working Calibration Stds	06/10/08	WC72050H
LCS / MS Intermediate	06/10/08	WC72050A	Working LCS/MS Standard	06/23/08	WC72093C
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 100mL 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	WC120050A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC120093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC120093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC120093C
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 #: 162913

Analyte: NITRATE 9056 NITRATE NITROGEN (NO3) AS N BY ION CHROM

Printed: 06/25/08 11:49

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	1111763	WATER	31.3	10.0	0.0500			06/24/08	RUN	ASPB
LDUP		1112005	WATER	31.4	10.0	0.0500		0.22	06/24/08		
SPK1		1112006	WATER	41.1	10.0	0.0500	97.8		06/24/08		
CHK5		1112007	WATER	3.58	1.0	0.0500	99.4		06/24/08		
BLK4		1112008	WATER	0.0500	U	1.0	0.0500		06/24/08		
SPKB		1112009	WATER	0.911		1.0	0.0500	91.1	06/24/08		
ESMP	R2844538	1111764	WATER	60.8	40.0	0.0500			06/24/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	0.500	U	10.0	0.0500		06/24/08	RUN	ASPB

Records printed: 8

Run #: 162914

Analyte: NITRITE 9056 NITRITE NITROGEN (NO2) AS N BY ION CHROM

Printed: 06/25/08 11:47

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE</u>		
				<u>RESULT</u>						<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
ESMP	R2844538	1111763	WATER	2.00	U	40.0	0.05			06/24/08	RUN	ASPB
LDUP		1112003	WATER	2.00	U	40.0	0.05			06/24/08		
SPK1		1112004	WATER	32.8		40.0	0.05	82.1		06/24/08		
CHK5		1112000	WATER	3.57		1.0	0.05	99.1		06/24/08		
BLK4		1112001	WATER	0.0500	U	1.0	0.05			06/24/08		
SPKB		1112002	WATER	0.937		1.0	0.05	93.7		06/24/08		
ESMP	R2844538	1111764	WATER	2.00	U	40.0	0.05			06/24/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	5.00	U	100.0	0.05			06/24/08	RUN	ASPB

Records printed: 8

Results Entered Manually!

Line	Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Weight	Int. Std.	Comment
1	CCV	Sample		20080623.met	0624_001.dxd	1	1	1	1	ANALYST: TC
2	CCB	Sample		20080623.met	0624_002.dxd	1	1	1	1	PIPETTES: LUCY, MINE
3	LCS	Sample	R-44538	20080623.met	0624_003.dxd	1	1	1	1	CNNS
4	MC-62B	Sample	1111765	20080623.met	0624_004.dxd	1	10	1	1	CNNS
5	M-94B	Sample	1111764	20080623.met	0624_005.dxd	1	10	1	1	CNNS
6	PC-72B	Sample	1111763	20080623.met	0624_006.dxd	1	10	1	1	CNNS
7	PC-72B DUP	Sample		20080623.met	0624_007.dxd	1	10	1	1	CNNS
8	PC-72B SPK	Sample		20080623.met	0624_008.dxd	1	10	1	1	CNNS
9	MC-62B	Sample	1111765	20080623.met	0624_009.dxd	1	40	1	1	CNNS
10	M-94B	Sample	1111764	20080623.met	0624_010.dxd	1	40	1	1	CNNS
11	PC-72B	Sample	1111763	20080623.met	0624_011.dxd	1	40	1	1	CNNS
12	PC-72B DUP	Sample		20080623.met	0624_012.dxd	1	40	1	1	CNNS
13	PC-72B SPK	Sample		20080623.met	0624_013.dxd	1	40	1	1	CNNS
14	MC-62B	Sample	1111765	20080623.met	0624_014.dxd	1	100	1	1	CNNS
15	M-94B	Sample	1111764	20080623.met	0624_015.dxd	1	100	1	1	CNNS
16	PC-72B	Sample	1111763	20080623.met	0624_016.dxd	1	100	1	1	CNNS
17	PC-72B DUP	Sample		20080623.met	0624_017.dxd	1	100	1	1	CNNS
18	PC-72B SPK	Sample		20080623.met	0624_018.dxd	1	100	1	1	CNNS
19	LNAQ0619	Sample		20080623.met	0624_019.dxd	1	40	1	1	BTU
20	CCV	Sample		20080623.met	0624_020.dxd	1	1	1	1	
21	CCB	Sample		20080623.met	0624_021.dxd	1	1	1	1	BTU
22	1108513A	Sample		20080623.met	0624_022.dxd	1	100	1	1	BTU
23	1108513B	Sample		20080623.met	0624_023.dxd	1	100	1	1	BTU
24	1108513A SPK	Sample		20080623.met	0624_024.dxd	1	100	1	1	C
25	1111026 R-44069	Sample		20080623.met	0624_025.dxd	1	10	1	1	C
26	1111031	Sample		20080623.met	0624_026.dxd	1	10	1	1	C
27	1111034	Sample		20080623.met	0624_027.dxd	1	10	1	1	C
28	1111035	Sample		20080623.met	0624_028.dxd	1	10	1	1	C
29	1111036	Sample		20080623.met	0624_029.dxd	1	10	1	1	C
30	1111037	Sample		20080623.met	0624_030.dxd	1	10	1	1	C
31	1111038	Sample		20080623.met	0624_031.dxd	1	10	1	1	C
32	1111039	Sample		20080623.met	0624_032.dxd	1	10	1	1	C
33	CCV	Sample		20080623.met	0624_033.dxd	1	1	1	1	
34	CCB	Sample		20080623.met	0624_034.dxd	1	1	1	1	
35	LCS	Sample		20080623.met	0624_035.dxd	1	1	1	1	C
36	1111040	Sample		20080623.met	0624_036.dxd	1	10	1	1	C
37	1111040 DUP	Sample		20080623.met	0624_037.dxd	1	10	1	1	C
38	1111040 SPK	Sample		20080623.met	0624_038.dxd	1	10	1	1	C
39	1111041	Sample		20080623.met	0624_039.dxd	1	10	1	1	C
40	1111042	Sample		20080623.met	0624_040.dxd	1	10	1	1	C
41	1111043	Sample		20080623.met	0624_041.dxd	1	10	1	1	C
42	1111044	Sample		20080623.met	0624_042.dxd	1	10	1	1	C
43	1111045	Sample		20080623.met	0624_043.dxd	1	10	1	1	C
44	1111046	Sample		20080623.met	0624_044.dxd	1	10	1	1	C
45	1111047	Sample		20080623.met	0624_045.dxd	1	10	1	1	C
46	1111048	Sample		20080623.met	0624_046.dxd	1	10	1	1	C
47	CCV	Sample		20080623.met	0624_047.dxd	1	1	1	1	
48	CCB	Sample		20080623.met	0624_048.dxd	1	1	1	1	
49	END	Sample		shutdown.met	0624	1	1	1	1	

worklists updated

Default Method Path: J:\ACQU\DATA\IC\METHOD.AC\IC#4
 Default Data Path: J:\ACQU\DATA\IC\DATA\IC#4062408
 Comment:

01400

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCV
 Data File Name : ...\\0624_001.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 09:21:35

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : ANALYST: TC

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

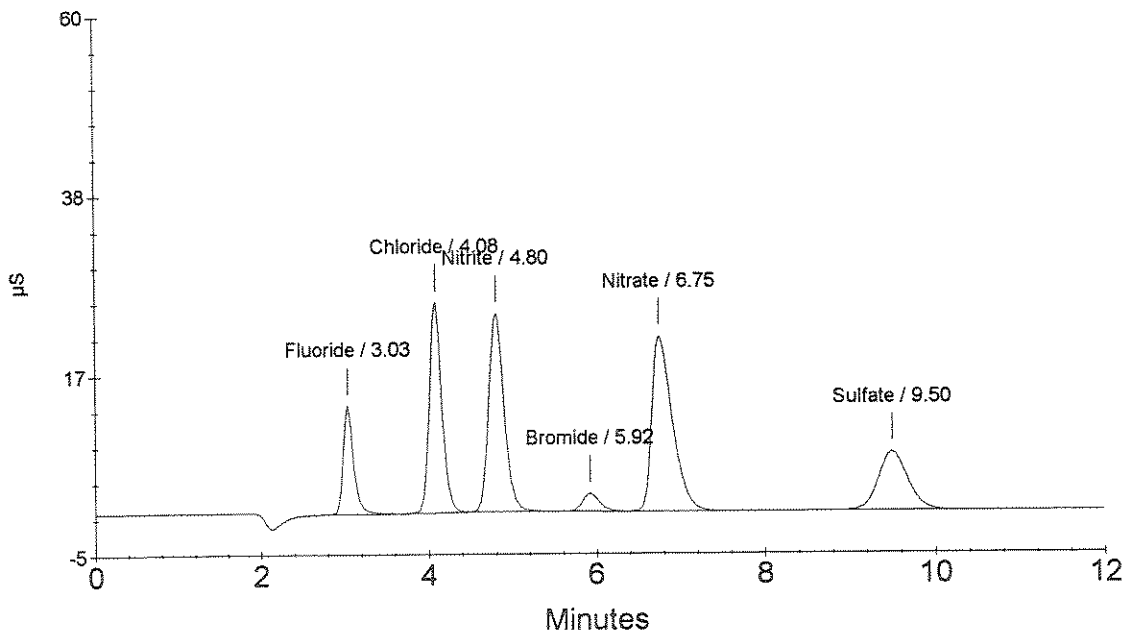
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	1.939	1134912
2	4.08	Chloride	6.270	2631662
3	4.80	Nitrite	3.566	3008862
4	5.92	Bromide	1.985	306993
5	6.75	Nitrate	3.577	3531793
6	9.50	Sulfate	6.406	1681791

OK
↓

TC 6/25/08

CCV



Ion Chromatography Analytical Report
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Sample Name : CCB
Data File Name : ...\\0624_002.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 09:35:55

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : PIPETTES: LUCY, MINE

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

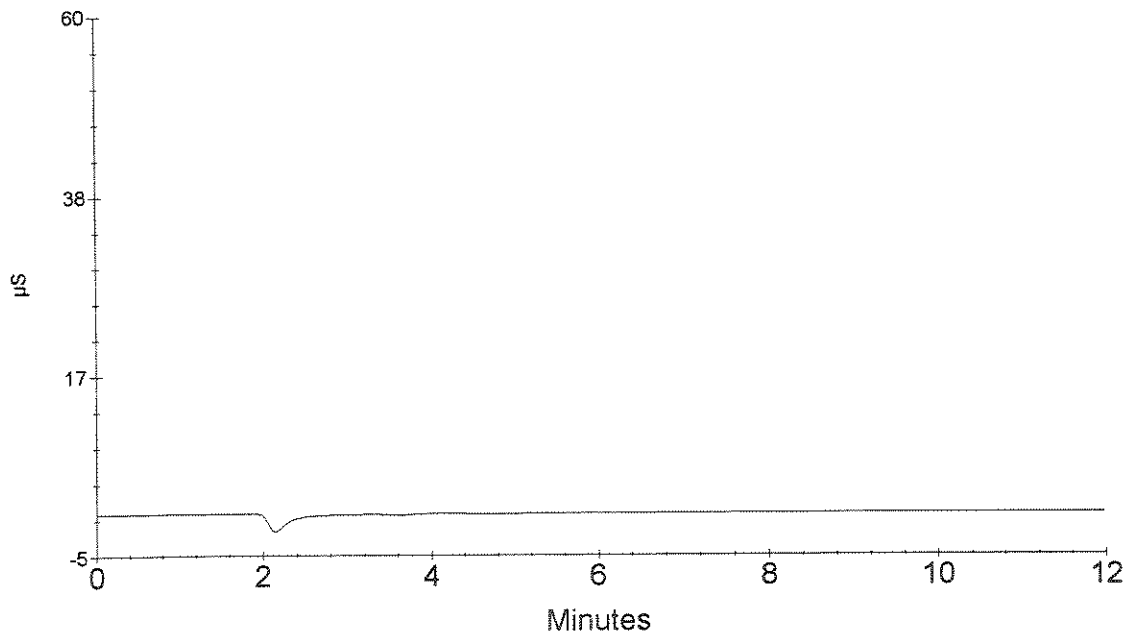
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK



TC 6/25/08

CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\\0624_003.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 09:50:12

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

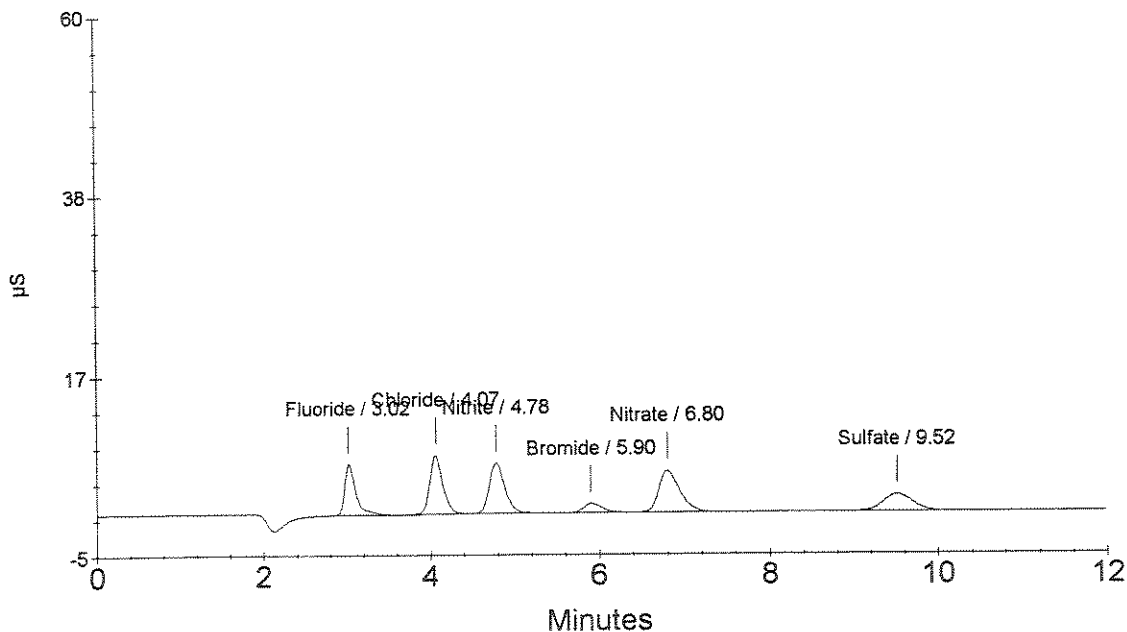
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	0.991	569107
2	4.07	Chloride	1.862	762686
3	4.78	Nitrite	0.937	761740
4	5.90	Bromide	1.018	158410
5	6.80	Nitrate	0.911	841737
6	9.52	Sulfate	1.932	493236

OK
↓

TC 6/25/08

LCS



Ion Chromatography Analytical Report
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Sample Name : MC-62B 1111765
 Data File Name : ...\\0624_004.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 11:25:26

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

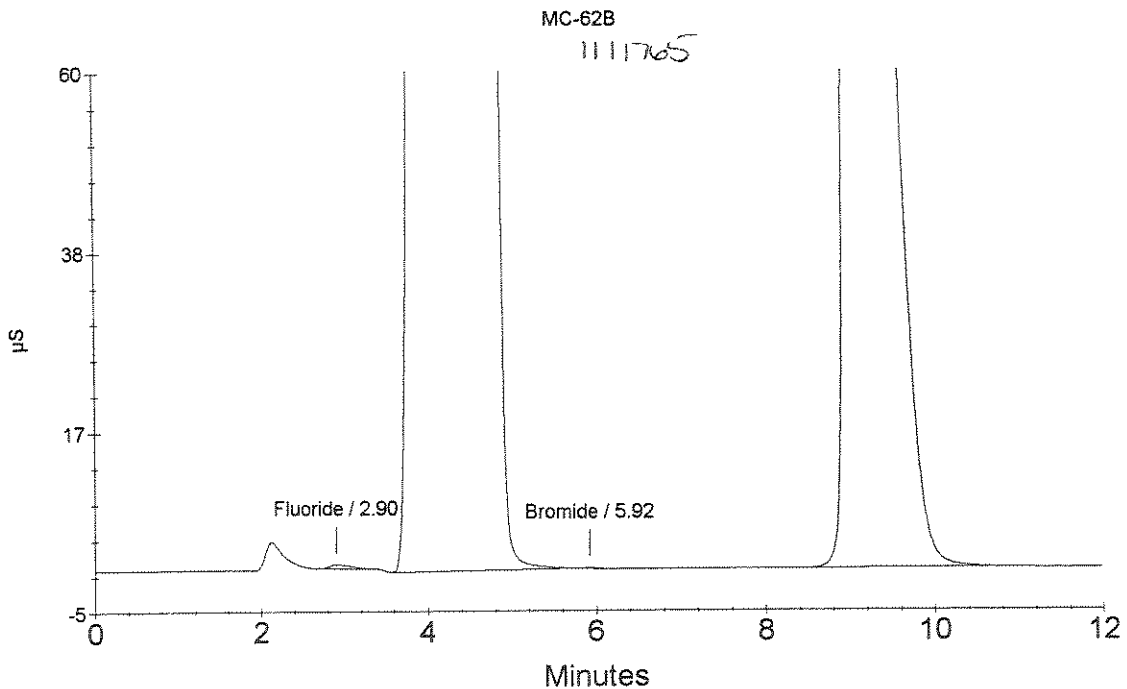
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.90	Fluoride Chloride	1.757	82426
2	4.77	Nitrite	3872.116	330982460
3	5.92	Bromide Nitrate	0.568	10737
4	9.10	Sulfate	2892.648	76829758

TC 6/25/08



Ion Chromatography Analytical Report
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Sample Name : M-94B 1111764
 Data File Name : ...0624_005.DXD
 Method File Name : ...20080623.met
 Date Time Collected : 6/24/08 11:39:45

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

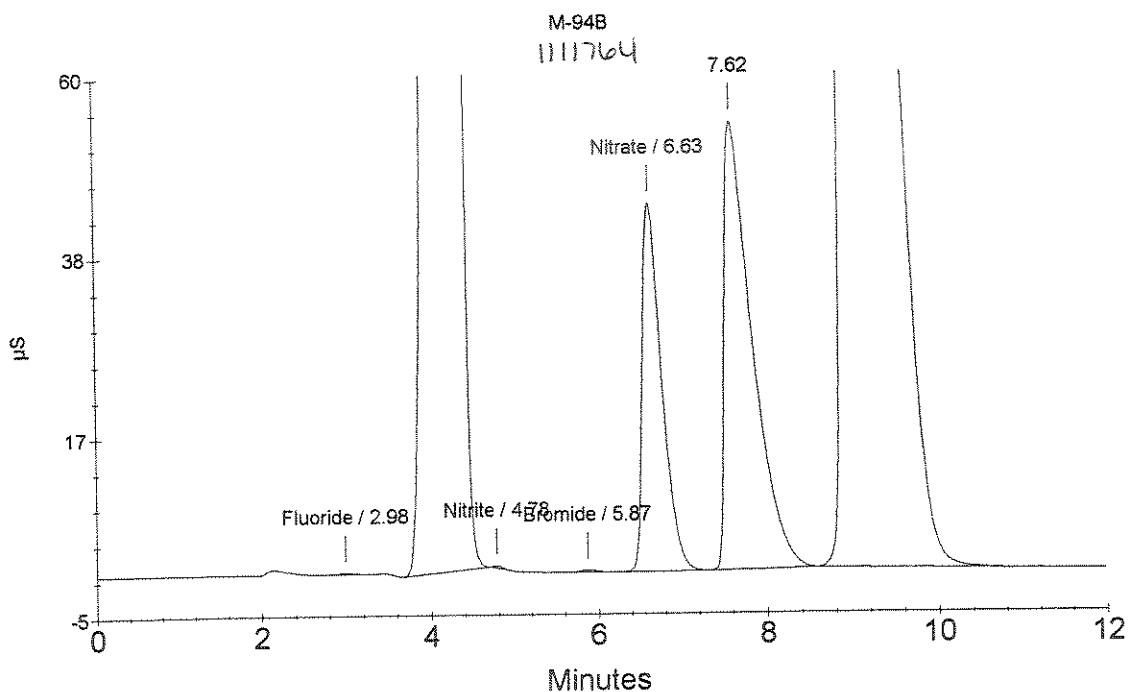
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.98	Fluoride	0.757	22728
2	4.35	Chloride	1999.248	84751564
3	4.78	Nitrite	0.673	18269
4	5.87	Bromide	2.109	34425
5	6.63	Nitrate	70.604	7046988
7	9.05	Sulfate	3616.957	96072654

TC 6/25/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : PC-72B 1111763
Data File Name : ...\\0624_006.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 11:54:02

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

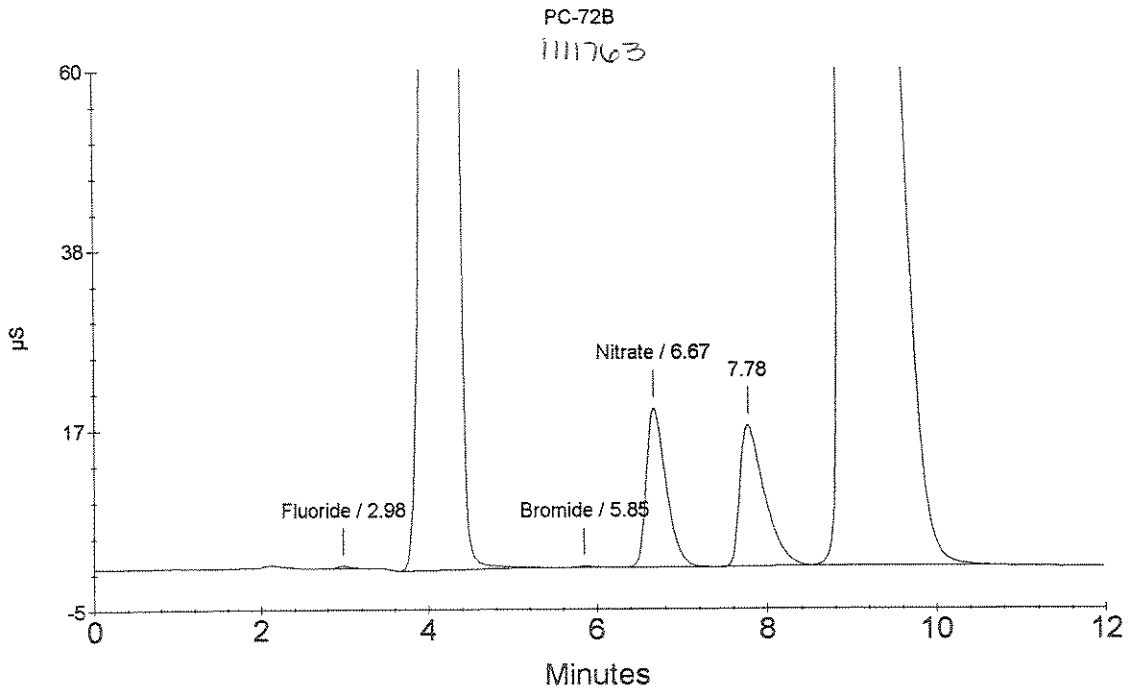
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.98	Fluoride	0.928	32926
2	4.32	Chloride Nitrite	1790.894	75916264
3	5.85	Bromide	1.136	19474
4	6.67	Nitrate	31.265	3077159
6	9.02	Sulfate	3826.196	101631549

TC 6125108



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : PC-72B DUP *763 Dup*
 Data File Name : ...\\0624_007.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 12:08:18

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

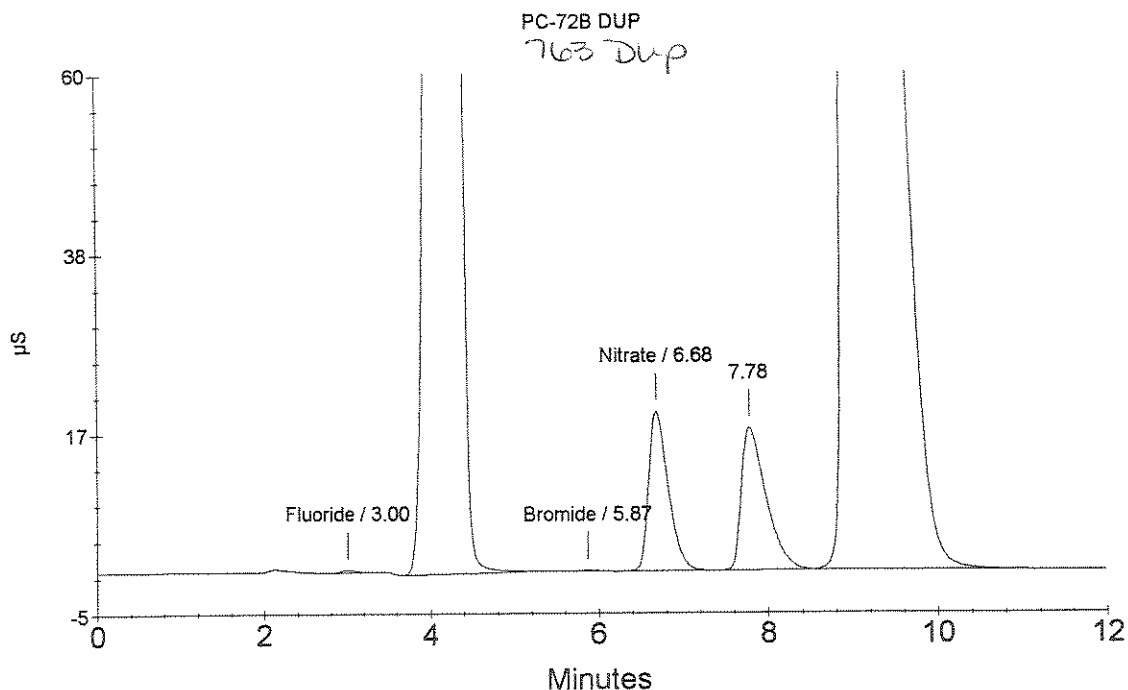
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.00	Fluoride	0.945	33949
2	4.33	Chloride Nitrite	<i>1140</i> <i>1140</i> 1788.777	75826497
3	5.87	Bromide	1.152	19711
4	6.68	Nitrate	<i>011</i> 31.368	3087533
6	9.05	Sulfate	<i>1140</i> 3828.732	101698931

TC 6125108



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : PC-72B SPK 763 SPK
Data File Name : ...0624_008.DXD
Method File Name : ...20080623.met
Date Time Collected : 6/24/08 12:22:34

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CNNS

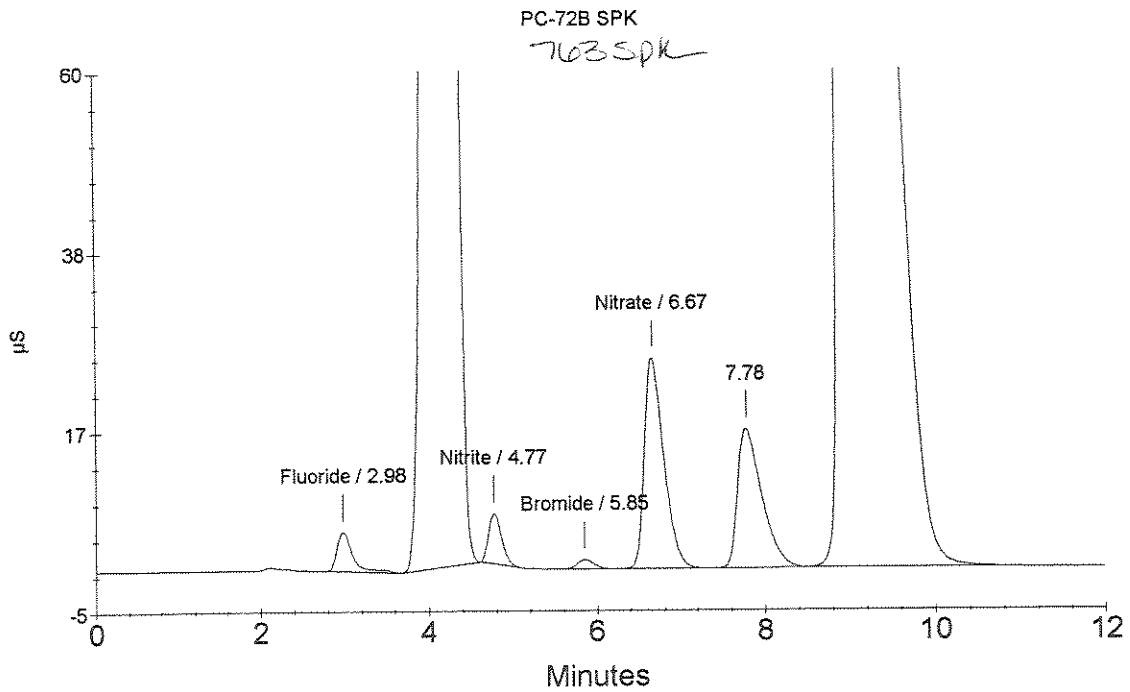
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	2.98	Fluoride	10.707	616590
2	4.32	Chloride	1754.890	74389513
3	4.77	Nitrite	7.998	644462
4	5.85	Bromide	10.193	158642
5	6.67	Nitrate	41.083	4067866
7	9.03	Sulfate	3735.944	99233803

$\frac{31,265}{10} \times 100 = 312.65\%$

TC 6/25/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MC-62B 1111765
Data File Name : ...0624_009.DXD
Method File Name : ...20080623.met
Date Time Collected : 6/24/08 12:36:48

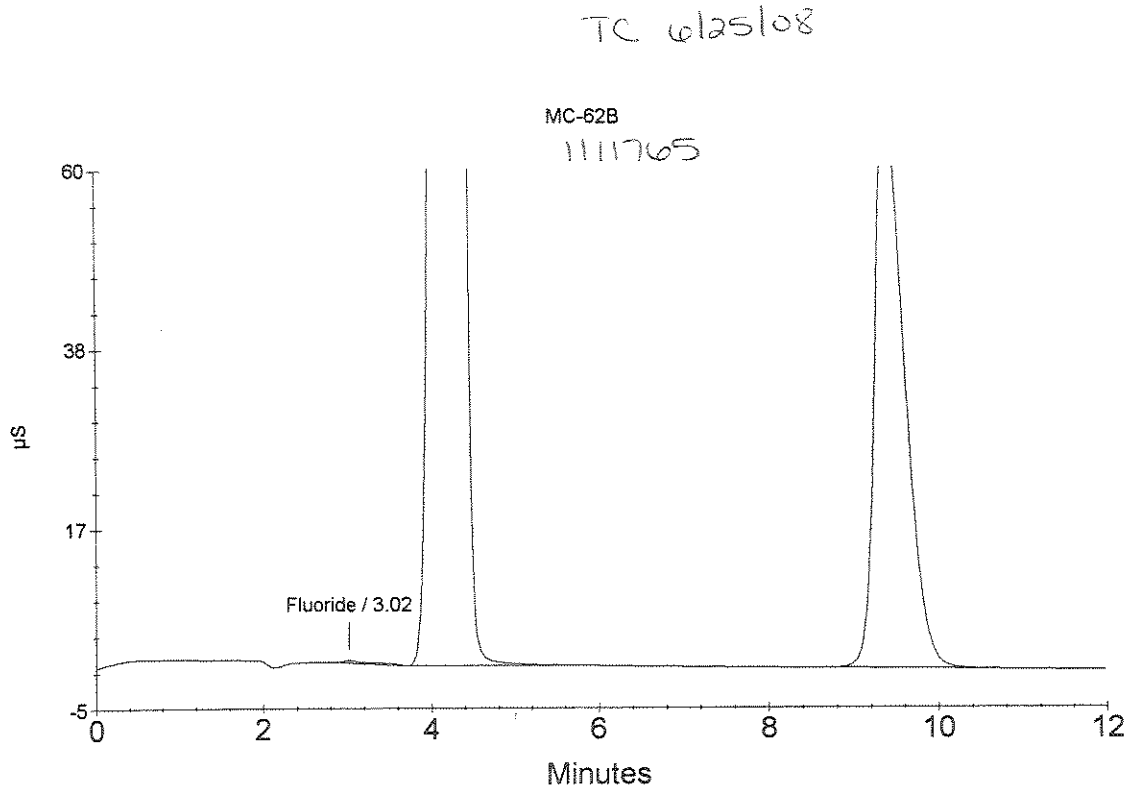
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	6.955	81342
2	4.37	Chloride Nitrite Bromide	7406.093	78487278
3	9.42	Nitrate Sulfate	2513.797	16676195



Ion Chromatography Analytical Report
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Sample Name : M-94B 1111764
Data File Name : ...\\0624_010.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 12:51:04

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

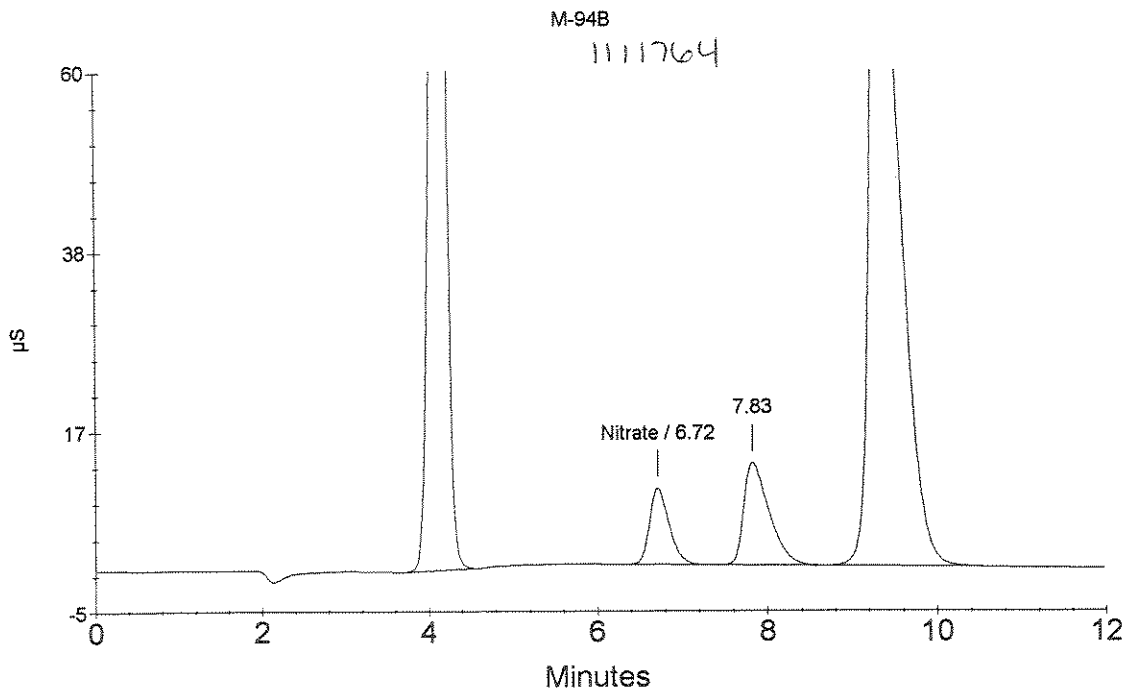
Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.15	Chloride	1828.312	19355483
1	4.15	Chloride Nitrite Bromide	^{1/400} OK 1828.312	19355483
2	6.72	Nitrate	^{OK} 60.834	1456789
4	9.37	Sulfate	^{1/400} 3254.892	21598415

TC 6/25/08



Ion Chromatography Analytical Report
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Sample Name : PC-72B 1111763
Data File Name : ...0624_011.DXD
Method File Name : ...20080623.met
Date Time Collected : 6/24/08 13:05:20

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

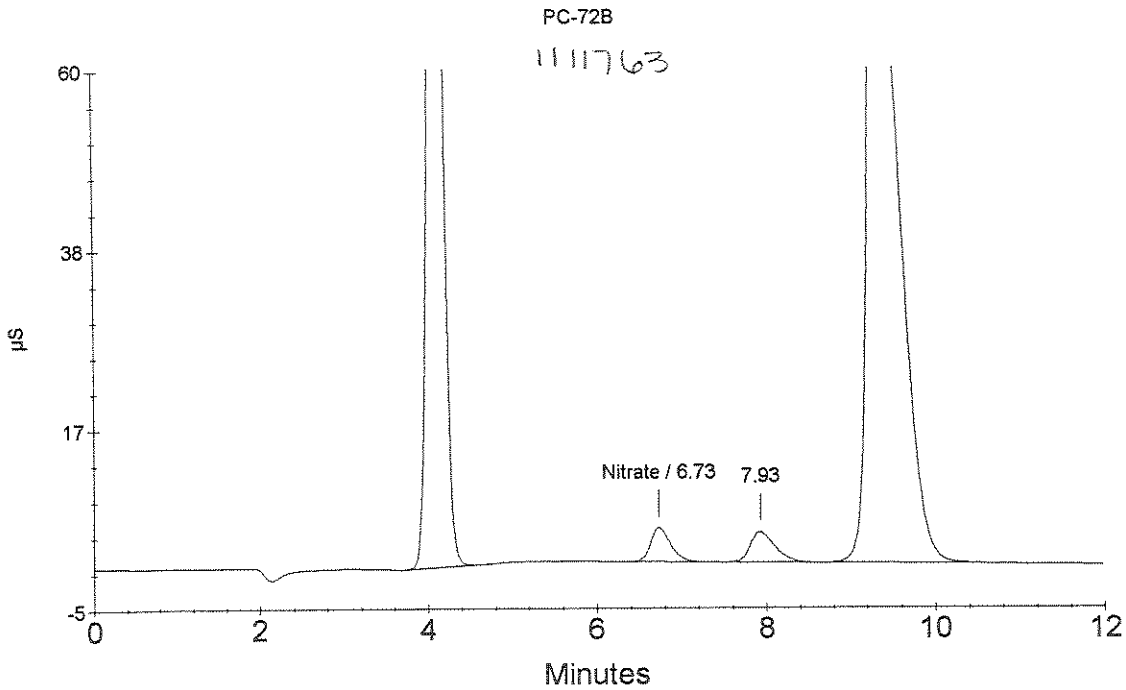
Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.13	Chloride	1583.413	16759231
1	4.13	Chloride	1583.413	16759231
		Nitrite		
		Bromide		
2	6.73	Nitrate	29.243	659816
4	9.38	Sulfate	3378.940	22422318

TC 6125108



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : PC-72B DUP *763 Dup*
 Data File Name : ... \0624_012.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/24/08 13:19:37

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

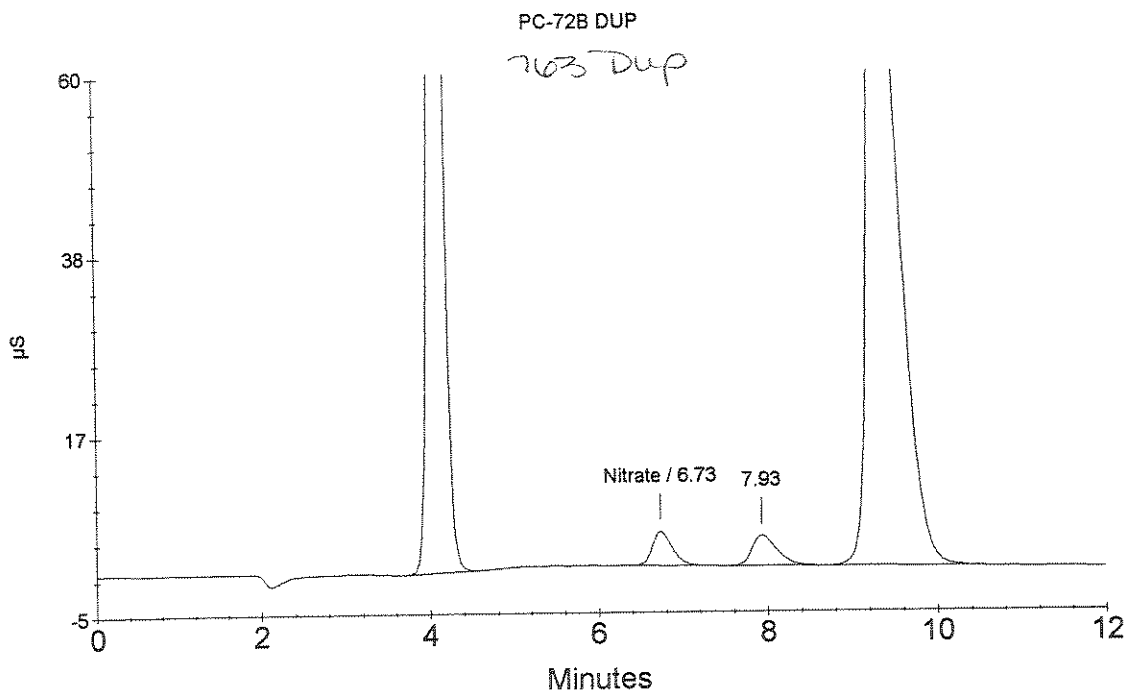
Dilution Factor : 40.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.13	Chloride	1584.382	16769512
1	4.13	Chloride <i>1400</i> Nitrite <i>OK</i>	1584.382	16769512
2	6.73	Nitrate <i>use 1/10</i>	29.492	666075
4	9.37	Sulfate <i>1400</i>	3367.072	22343489

TC 0125108



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : PC-72B SPK 763 SPK
Data File Name : ...\\0624_013.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 13:33:52

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

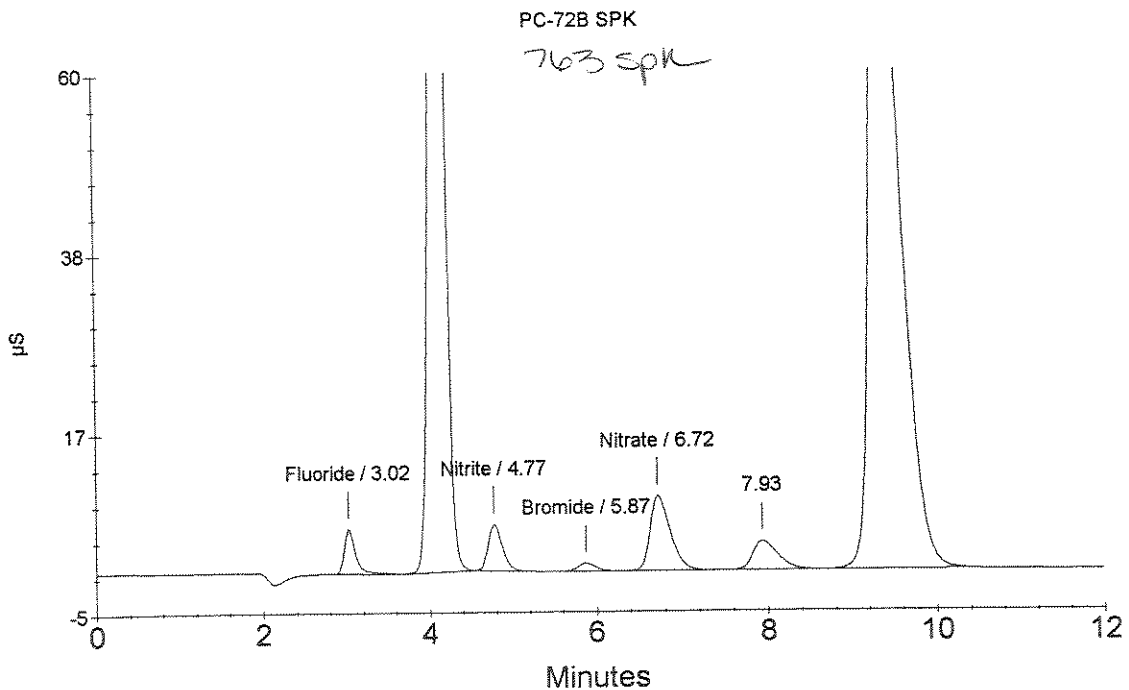
Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	35.623	509100
2	4.15	Chloride	11400 1661.280	17584726
3	4.77	Nitrite	OK 32.851	662818 $\sim \frac{0.100}{40} \times 1000 = 99.06!$
4	5.87	Bromide	34.801	135699
5	6.72	Nitrate	use 1/10 60.693	1453246
7	9.38	Sulfate	11400 3409.933	22628163

TC 6125108



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MC-62B 1111765
Data File Name : ...\\0624_014.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 13:48:08

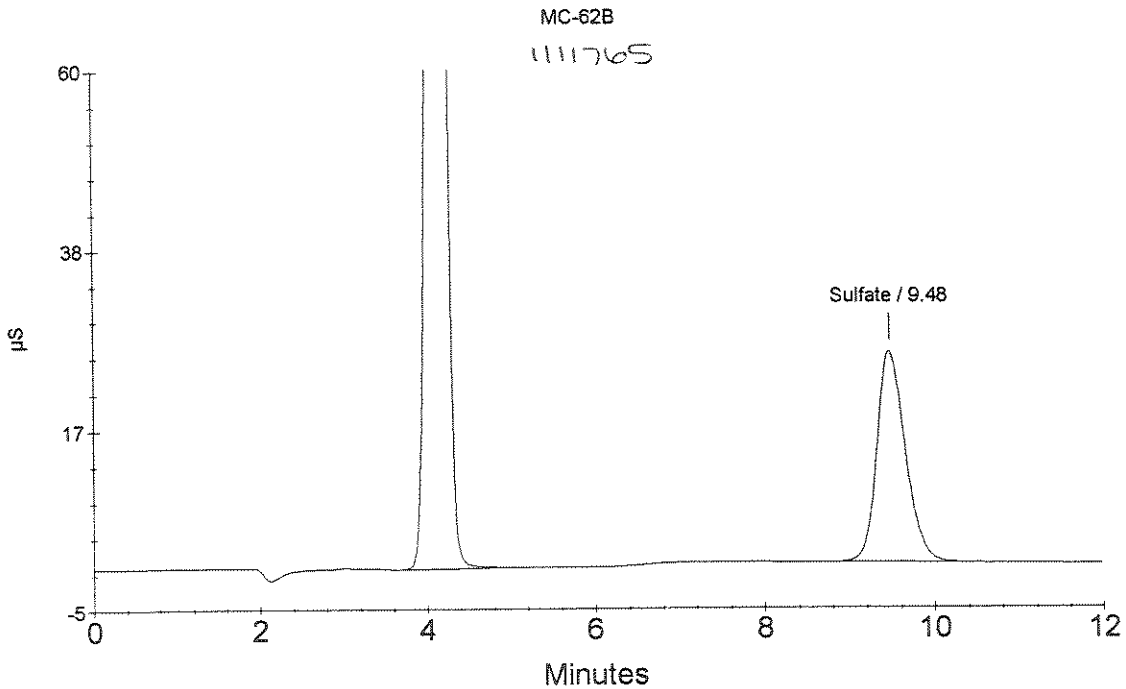
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	7097.318	30069333
1	4.20	Chloride <i>1/1000</i>	7097.318	30069333
		Nitrite <i>OK</i>		
		Bromide		
		Nitrate <i>use 1/10</i>		
2	9.48	Sulfate <i>1/400</i>	2218.541	5874080



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : M-94B 1111764
 Data File Name : ...\\0624_015.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 14:02:29

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

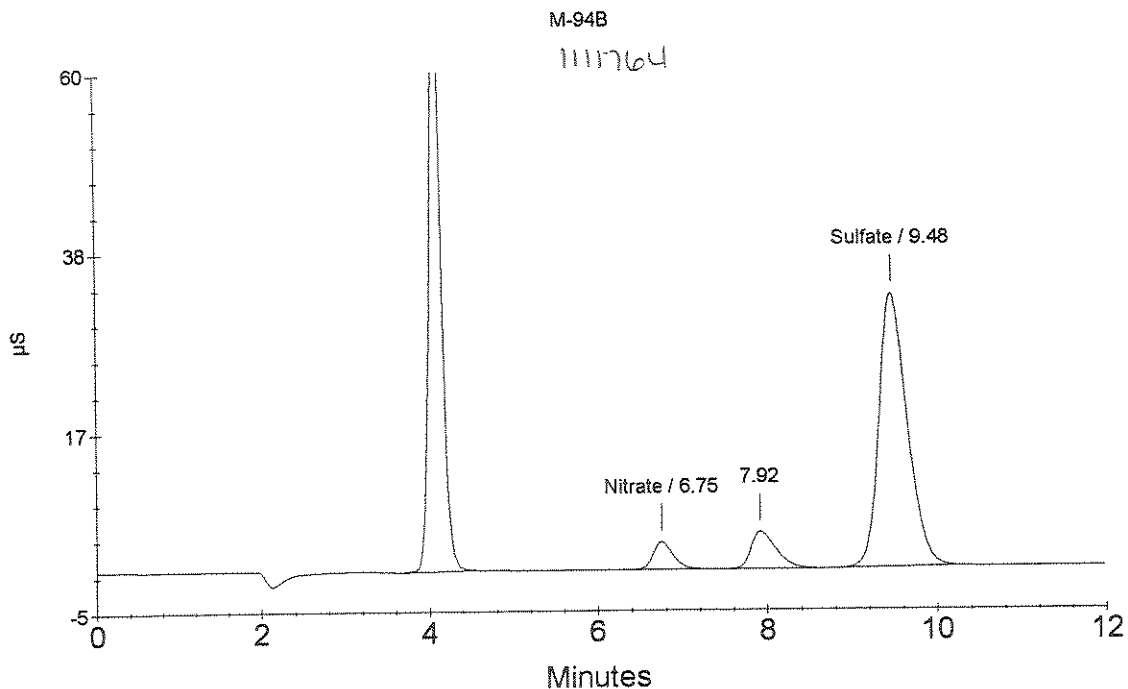
Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.10	Chloride	1681.075	7101621
1	4.10	Chloride Nitrite Bromide	1681.075 <i>use 140</i>	7101621
2	6.75	Nitrate	60.275 <i>use 140</i>	530307
4	9.48	Sulfate	2868.345 <i>1400</i>	7600430

TC 6125108



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : PC-72B 1111763
 Data File Name : ...0624_016.DXD
 Method File Name : ...20080623.met
 Date Time Collected : 6/24/08 14:16:45

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

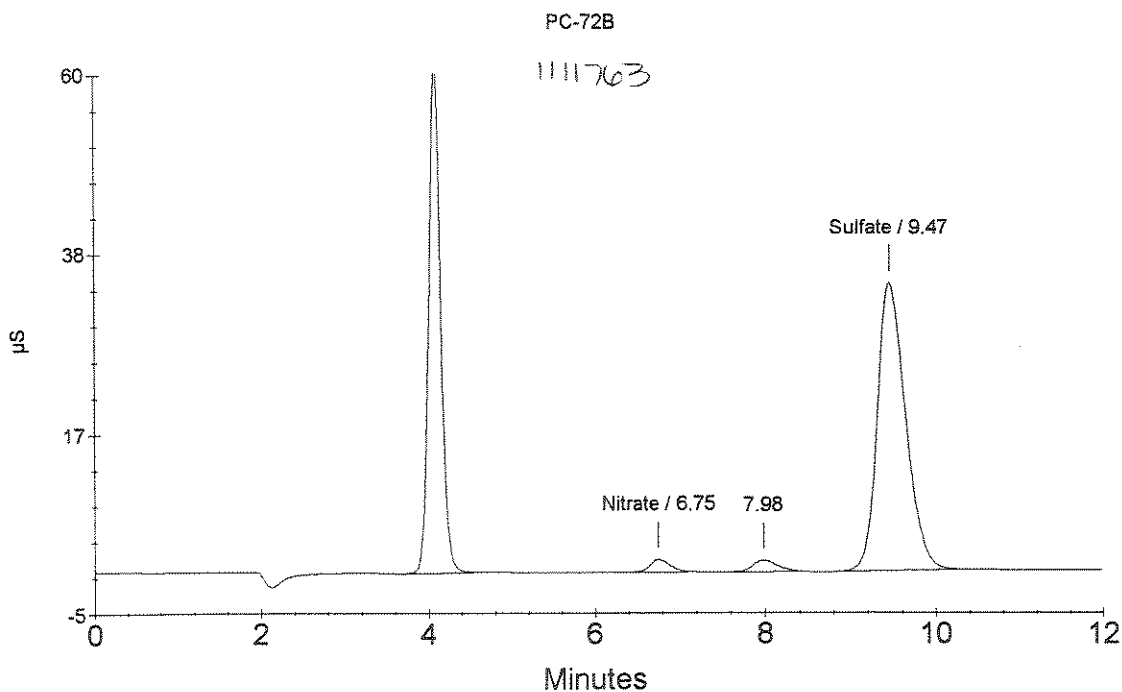
Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.08	Chloride	1469.370	6203879
1	4.08	Chloride Nitrite Bromide	1469.370	6203879
2	6.75	Nitrate	32.371	248713
4	9.47	Sulfate	3024.889	8016326

Handwritten notes:
 use 1400
 use 140
 use 110
 use 1400
 T 0125108



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : PC-72B DUP *763 Dup*
Data File Name : ... \0624_017.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/24/08 14:31:04

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

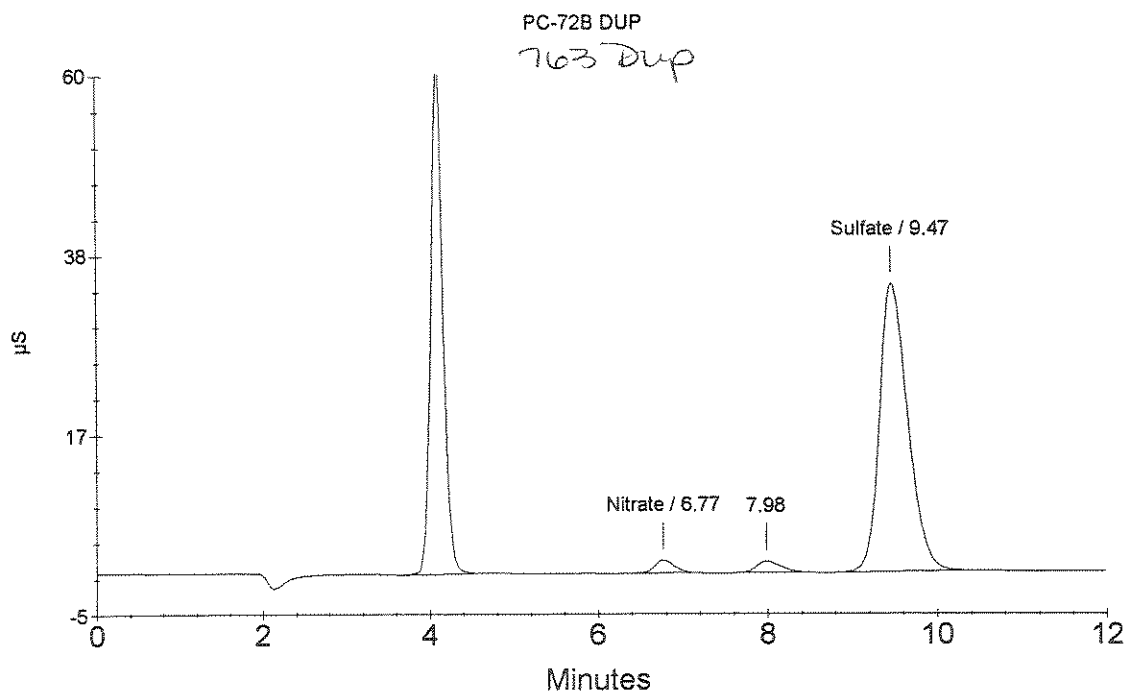
Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.08	Chloride	1467.768	6197087
1	4.08	Chloride <i>11400</i>	1467.768	6197087
		Nitrite <i>use 1140</i>		
		Bromide		
2	6.77	Nitrate <i>use 110</i>	32.087	245854
4	9.47	Sulfate <i>11400</i>	3024.245	8014615

TC 6/25/08



Ion Chromatography Analytical Report
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Sample Name : PC-72B SPK 763 SPK
Data File Name : ...0624_018.DXD
Method File Name : ...20080623.met
Date Time Collected : 6/24/08 14:45:21

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

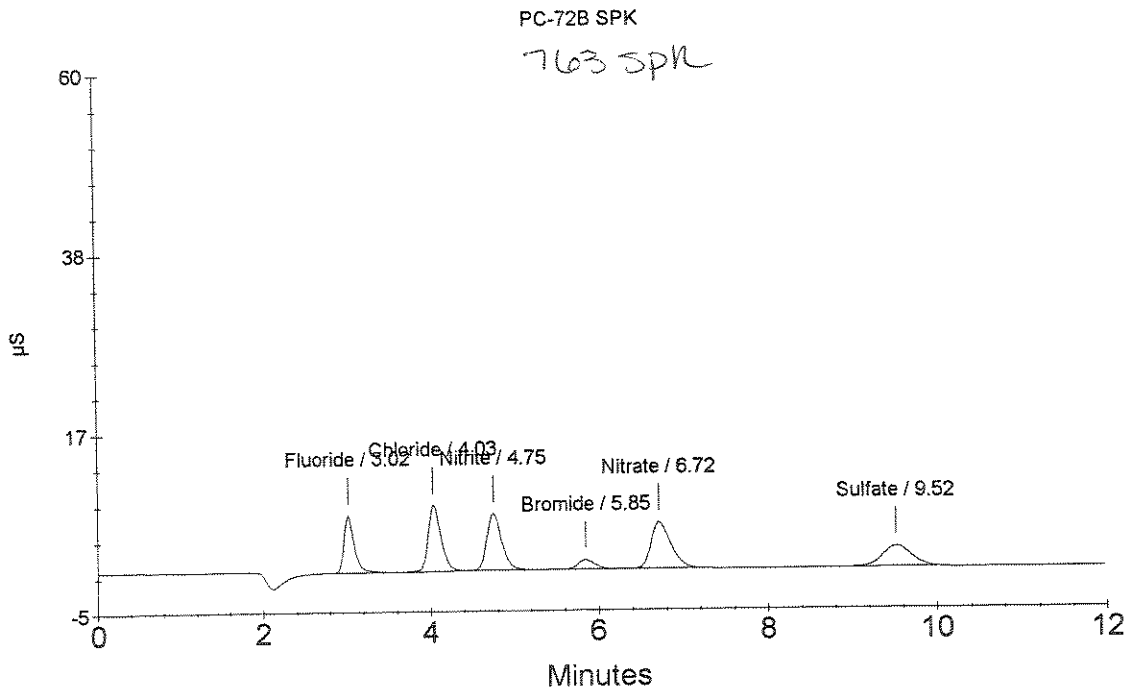
Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : CNNS

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	103.963	598068
2	4.03	Chloride	206.446	848421
3	4.75	Nitrite <i>use 140</i>	102.401	836132
4	5.85	Bromide	102.598	159662
5	6.72	Nitrate <i>use 110</i>	98.687	917941
6	9.52	Sulfate <i>to 11400</i>	231.594	595307

6125108
TC 6125108



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : LNAQ0619
 Data File Name : ...0624_019.DXD
 Method File Name : ...20080623.met
 Date Time Collected : 6/24/08 15:04:35

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

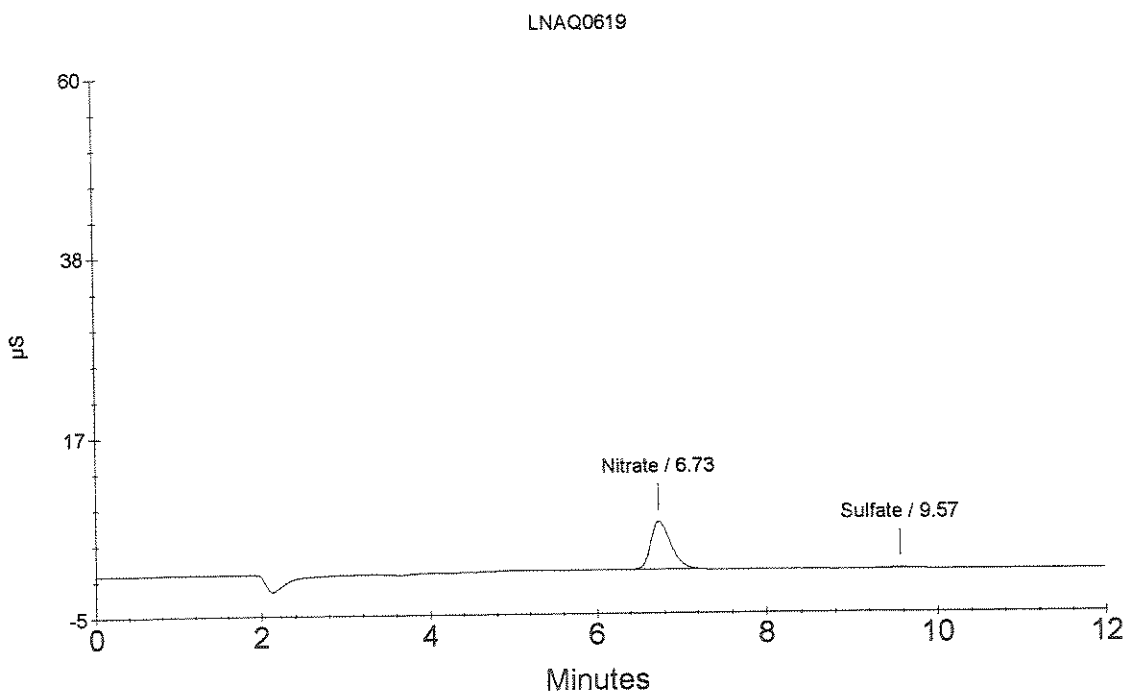
Dilution Factor : 40.00
 Sample Type : Sample Analysis
 Sample Comment : BTU

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	6.73	Nitrate Chloride Nitrite Bromide	40.847	952551
1	6.73	Nitrate	40.847	952551
2	9.57	Sulfate	5.561	16960

TC 6/25/08



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Sample Name : CCV
 Data File Name : ...\\0624_020.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 15:18:50

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

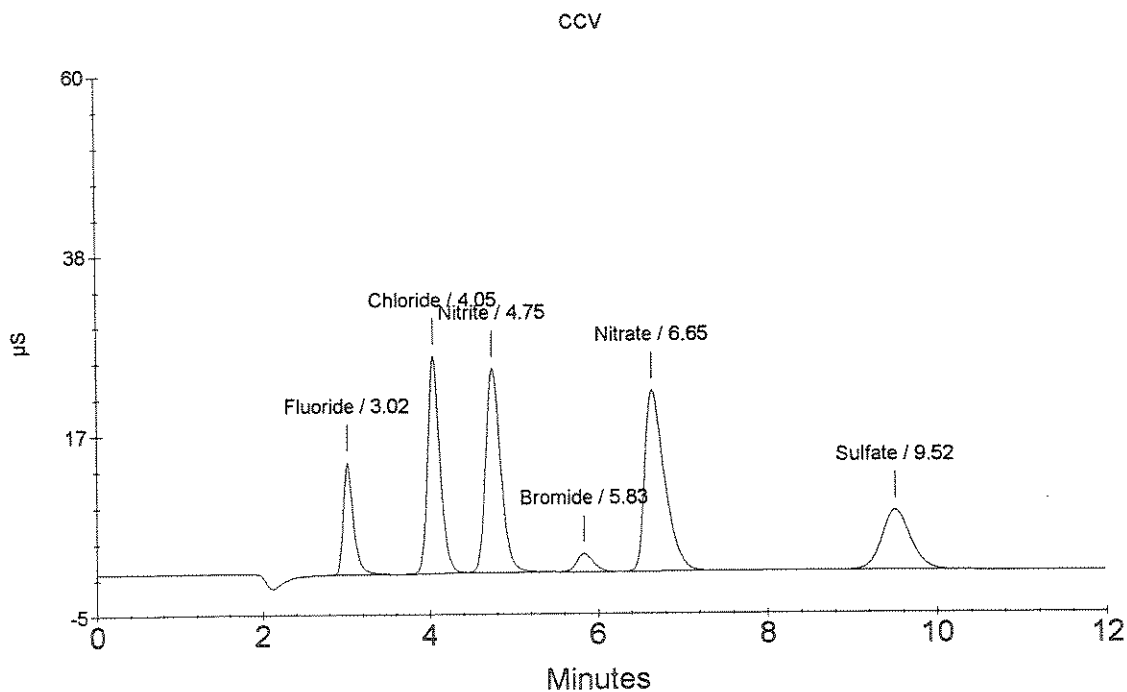
Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	1.954	1143943
2	4.05	Chloride	6.283	2637328
3	4.75	Nitrite	3.574	3015943
4	5.83	Bromide	1.929	298456
5	6.65	Nitrate	3.580	3534948
6	9.52	Sulfate	6.439	1690764

OK
 ↓
 TR 6/25/08



Ion Chromatography Analytical Report
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Sample Name : CCB
Data File Name : ...0624_021.DXD
Method File Name : ...20080623.met
Date Time Collected : 6/24/08 15:33:06

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

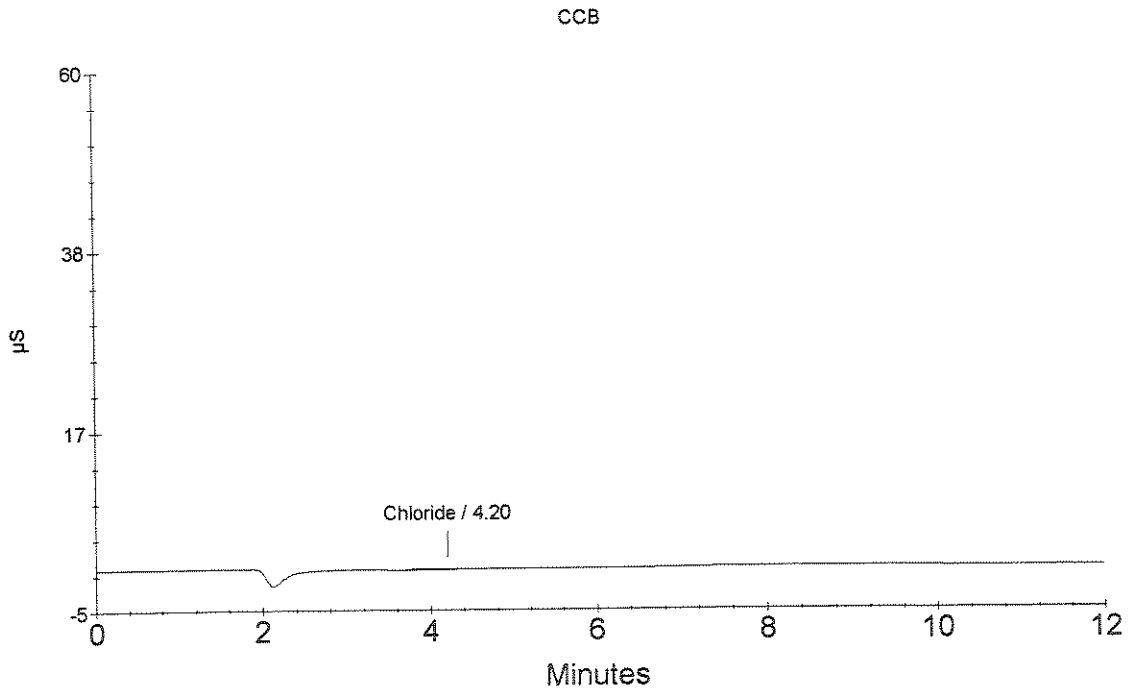
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	0.159	40481
1	4.20	Chloride	0.159	40481
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
↓
TC 6/25/08



Ion Chromatography Analytical Report
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Sample Name : 1108513A
Data File Name : ...\\0624_022.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 15:47:26

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

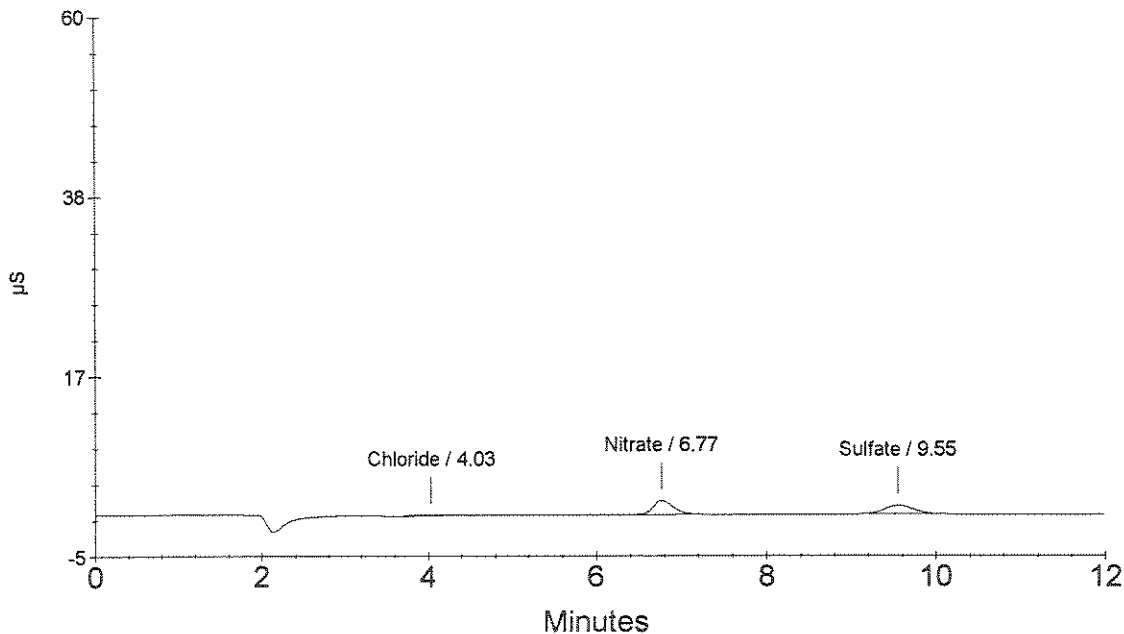
Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : BTU

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.03	Chloride	13.411	29850
1	4.03	Chloride	13.411	29850
		Nitrite		
		Bromide		
2	6.77	Nitrate	34.816	273388
3	9.55	Sulfate	101.921	250800

Dilution wrong?
Rpt 1/40 + 1/100
TC 6/25/08



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 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1108513B
 Data File Name : ...\\0624_023.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 16:01:42

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : BTU

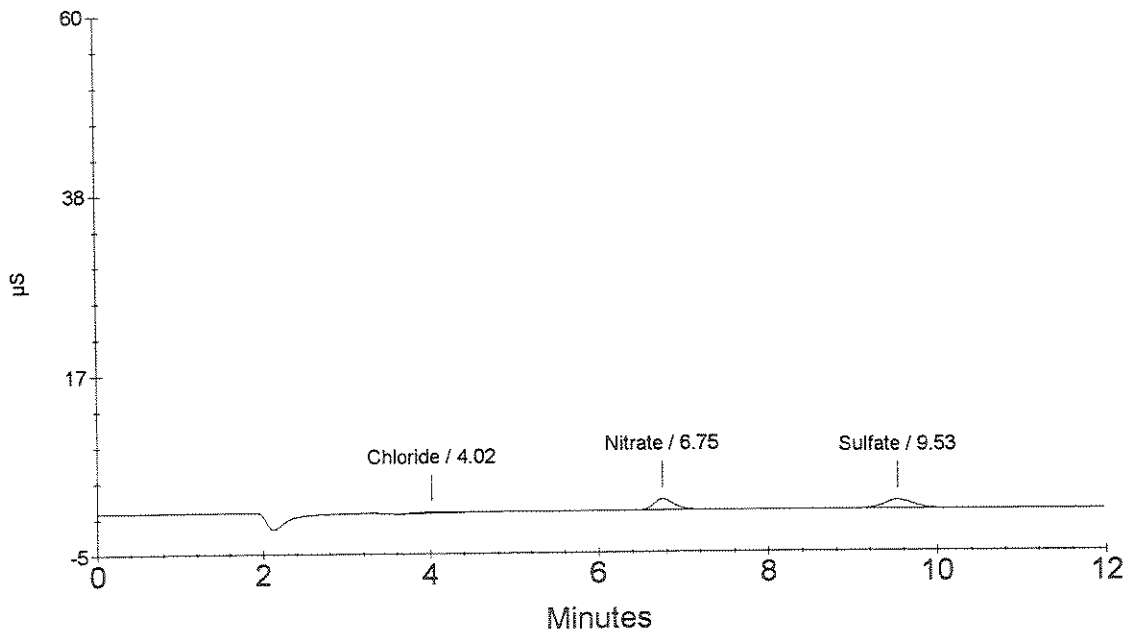
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.02	Chloride	13.680	30990
1	4.02	Chloride Nitrite Bromide	13.680	30990
2	6.75	Nitrate	29.225	216972
3	9.53	Sulfate	98.141	240759

*wrong dilution?
 RPT + 1/40
 + 1/100
 TC 6/25/08*

1108513B



Ion Chromatography Analytical Report
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Sample Name : 1108513A SPK
 Data File Name : ... \0624_024.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/24/08 16:16:03

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : BTU

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

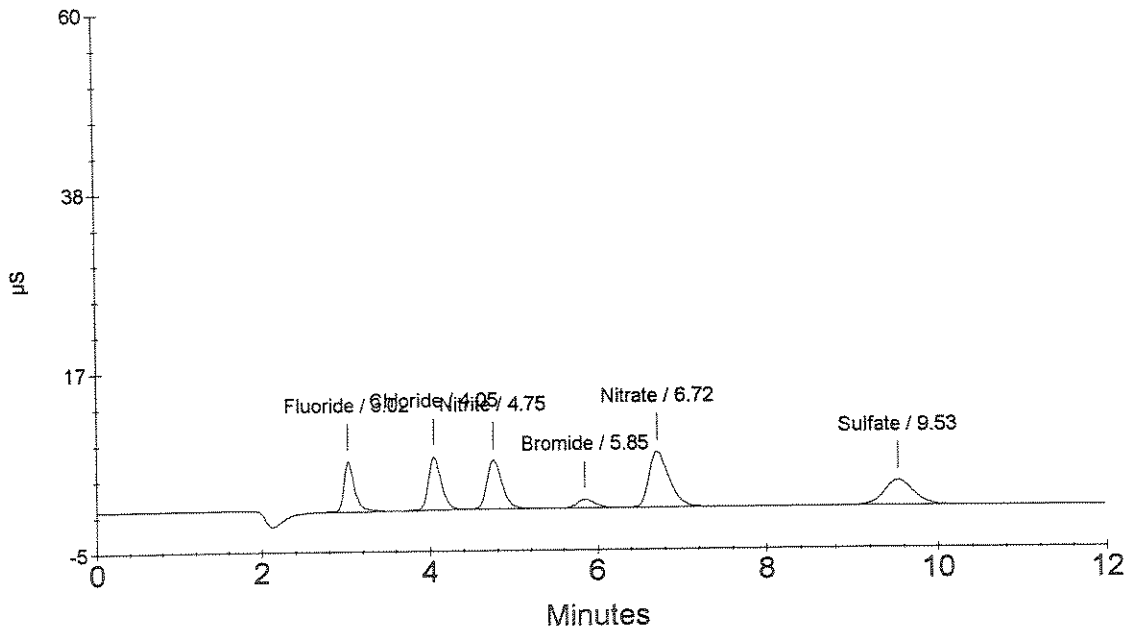
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	94.780	543262
2	4.05	Chloride	167.644	683881
3	4.75	Nitrite	89.237	723595
4	5.85	Bromide	95.531	148803
5	6.72	Nitrate	116.821	1100937
6	9.53	Sulfate	277.461	717162

*wrong dilution?
 Rpt + 1/100*

R 6/25/08

1108513A SPK



Ion Chromatography Analytical Report
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Sample Name : 1111026 R-44069
 Data File Name : ...\\0624_025.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 16:30:25

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : C

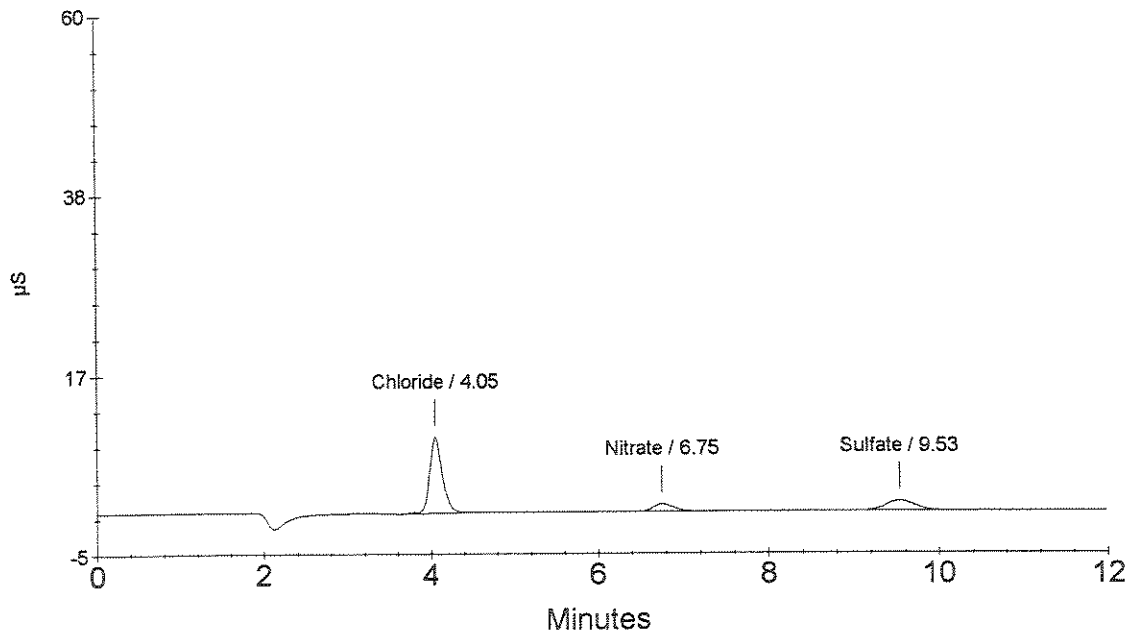
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	23.464	967978
1	4.05	Chloride <i>OL</i>	23.464	967978
		Nitrite		
		Bromide		
2	6.75	Nitrate	2.216	145694
3	9.53	Sulfate	11.169	276762

TC 0625108

1111026 R-44069



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111031
 Data File Name : ... \0624_026.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/24/08 16:44:40

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

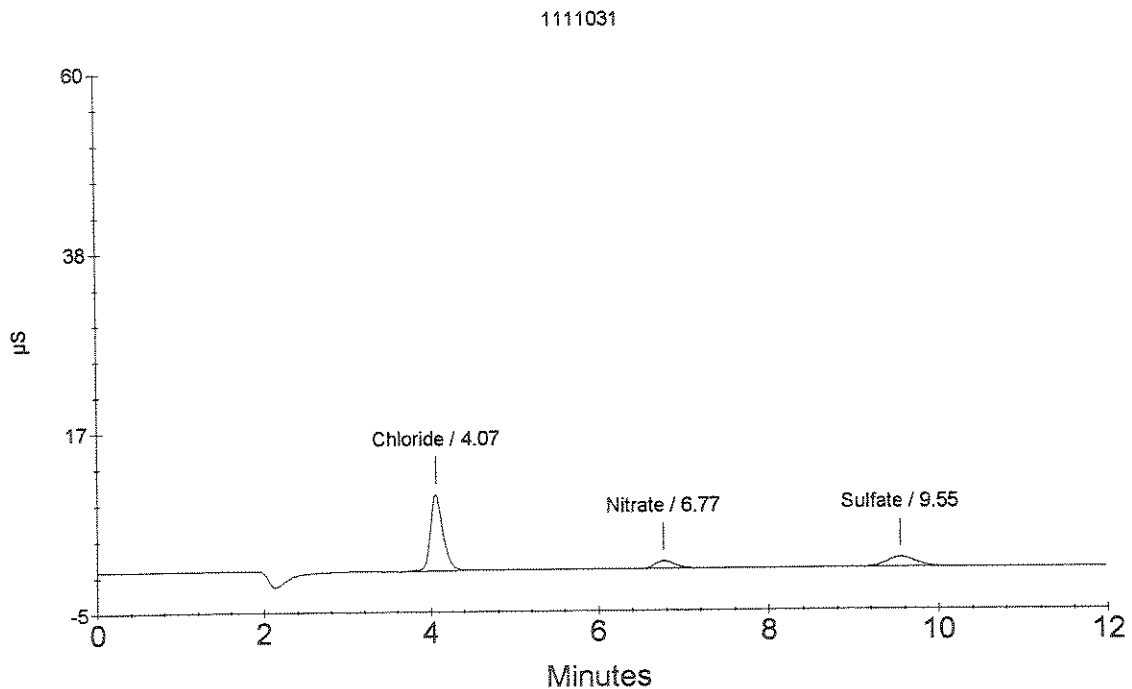
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : C

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	23.327	962151
1	4.07	Chloride Nitrite Bromide	23.327	962151
2	6.77	Nitrate	2.186	142625
3	9.55	Sulfate	10.850	268285

TC 0125108



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111034
Data File Name : ...\\0624_027.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 16:58:57

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

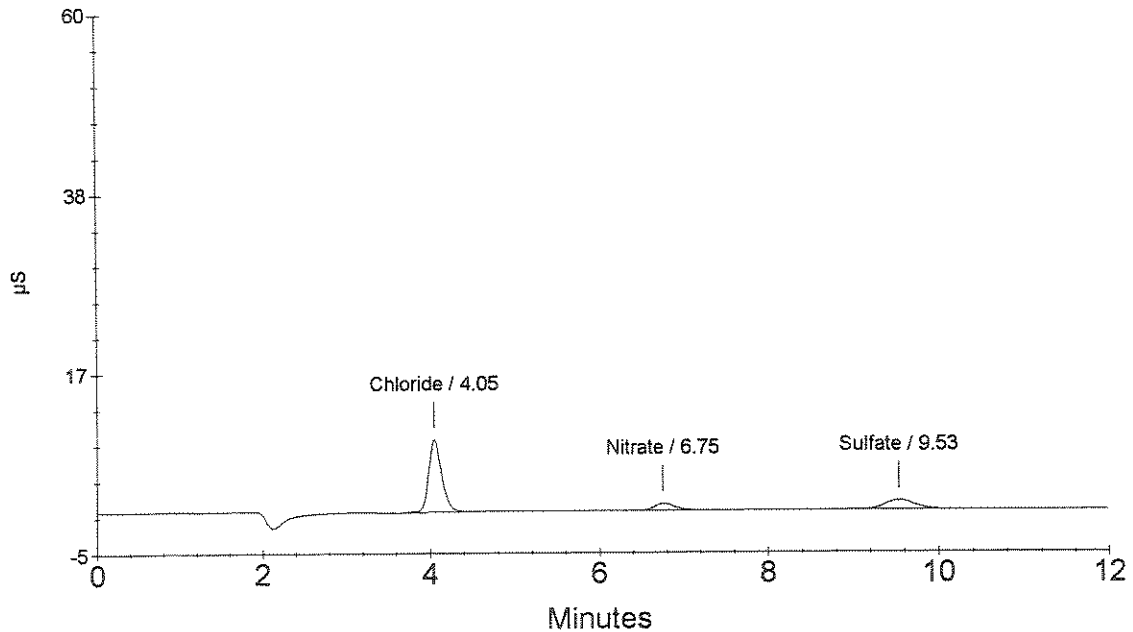
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	22.474	925987
1	4.05	Chloride <i>OK</i>	22.474	925987
		Nitrite		
		Bromide		
2	6.75	Nitrate	2.132	137179
3	9.53	Sulfate	10.647	262886

TC 6/25/08
1111034



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111035
 Data File Name : ...\\0624_028.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 17:13:13

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

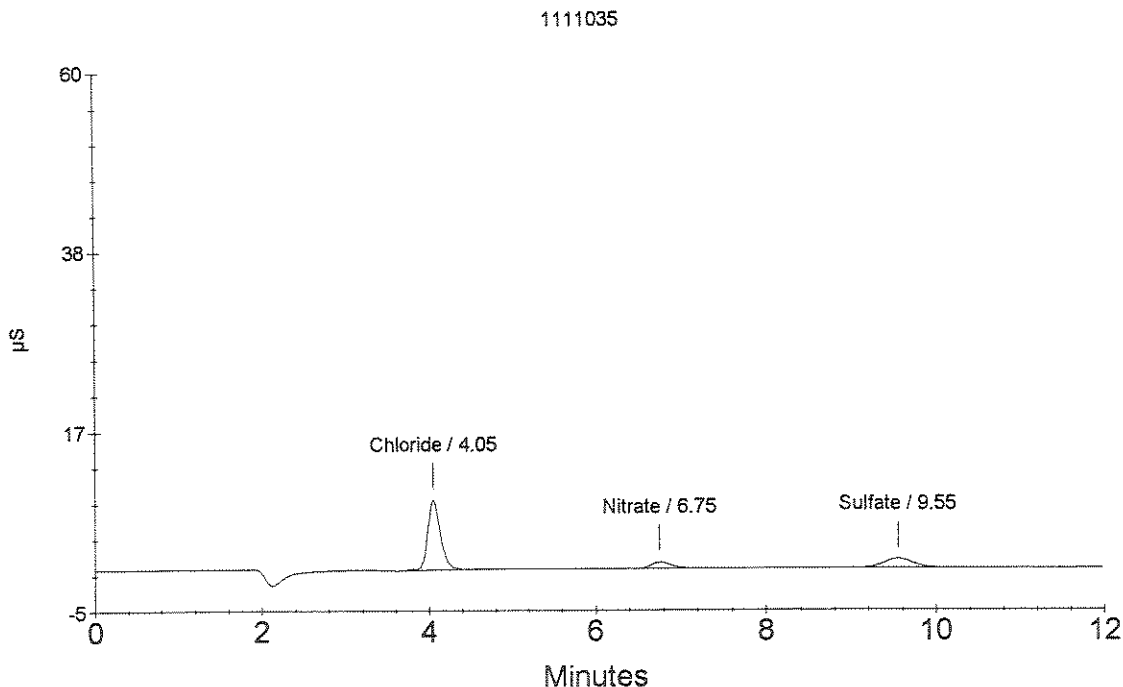
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : C

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	21.686	892592
1	4.05	Chloride Nitrite Bromide	21.686	892592
2	6.75	Nitrate	1.958	119650
3	9.55	Sulfate	10.322	254260

TC 6/25/08



Ion Chromatography Analytical Report
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Sample Name : 1111036
Data File Name : ...\\0624_029.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 17:27:33

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

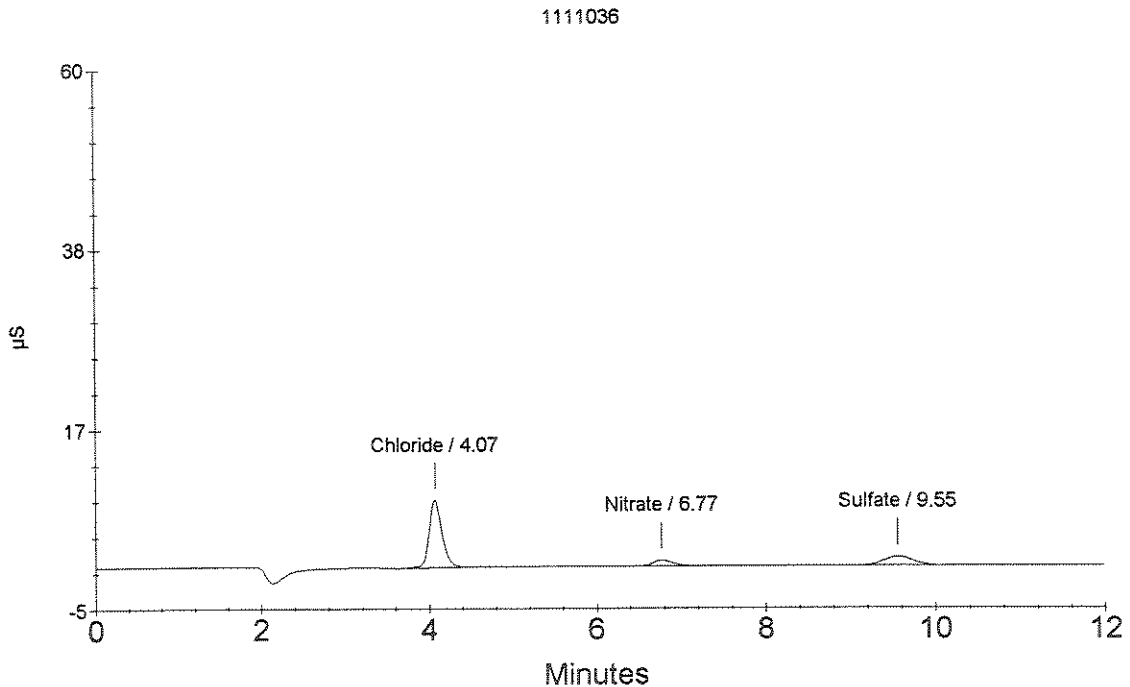
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	21.011	863938
1	4.07	Chloride <i>OL</i>	21.011	863938
		Nitrite		
		Bromide		
2	6.77	Nitrate	1.890	112790
3	9.55	Sulfate	9.979	245148

TC 6/25/08



Ion Chromatography Analytical Report
Columbia Analytical Services
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Sample Name : 1111037
Data File Name : ...\\0624_030.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 17:41:48

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

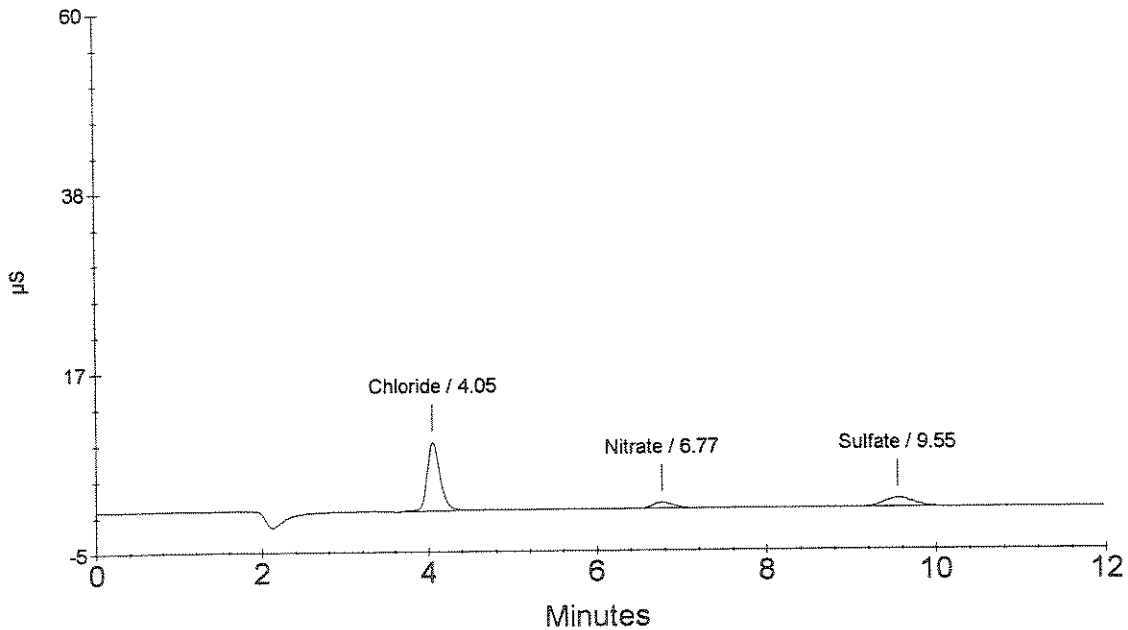
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	21.343	878046
1	4.05	Chloride Nitrite Bromide	OK 21.343	878046
2	6.77	Nitrate	1.882	111955
3	9.55	Sulfate	10.110	248623

TC 6/25/08

1111037



Ion Chromatography Analytical Report
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Sample Name : 1111038
Data File Name : ...\\0624_031.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 17:56:09

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

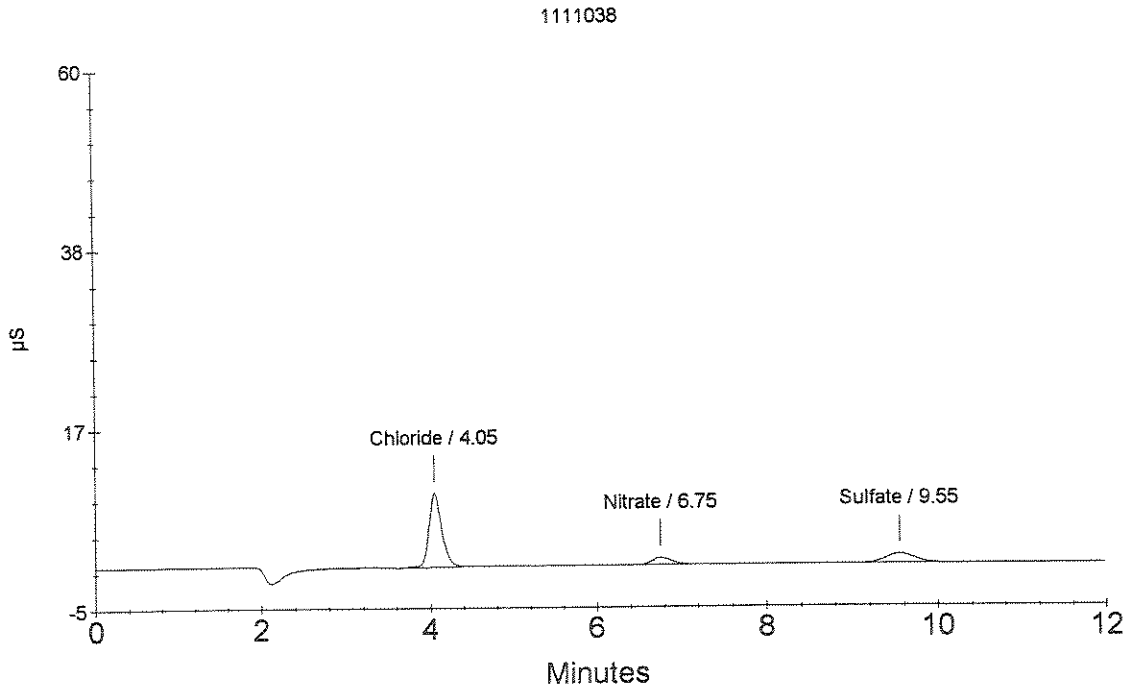
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	22.820	940687
1	4.05	Chloride Nitrite Bromide	<i>OL</i> 22.820	940687
2	6.75	Nitrate	2.114	135342
3	9.55	Sulfate	10.631	262474

TC 6/25/08



Ion Chromatography Analytical Report
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Sample Name : 1111039
 Data File Name : ...\\0624_032.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 18:10:25

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

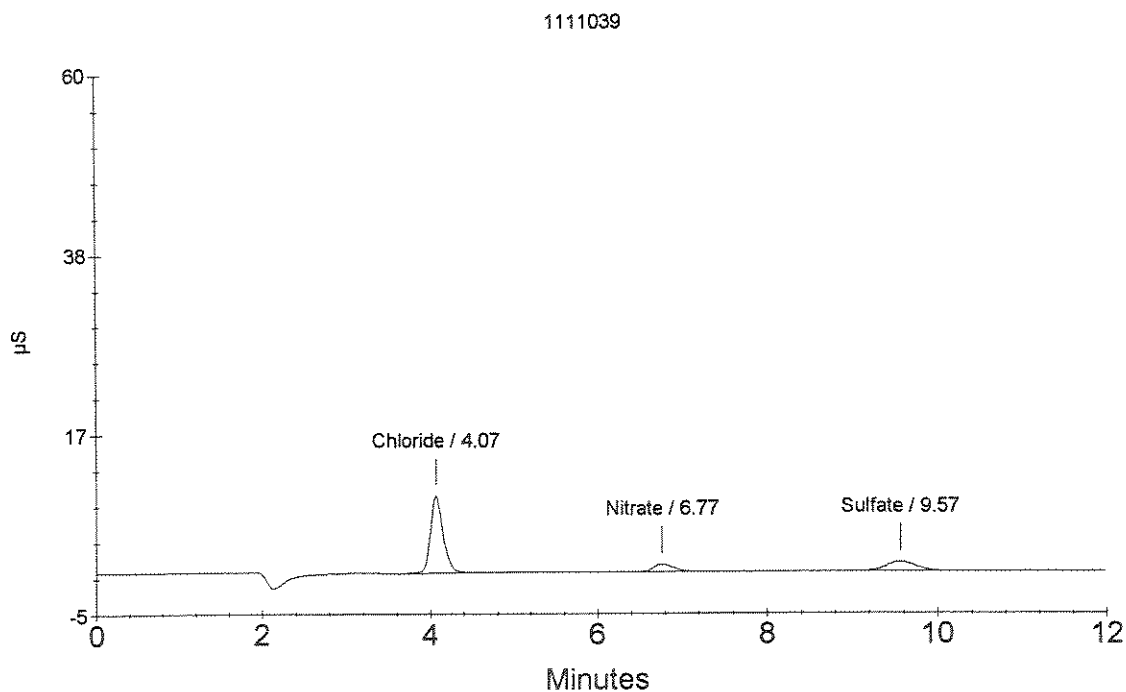
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : C

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	23.644	975625
1	4.07	Chloride <i>OK</i>	23.644	975625
		Nitrite		
		Bromide		
2	6.77	Nitrate	2.228	146897
3	9.57	Sulfate	10.711	264577

TC 6/25/08



Ion Chromatography Analytical Report
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Sample Name : CCV
 Data File Name : ...\\0624_033.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 18:24:40

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

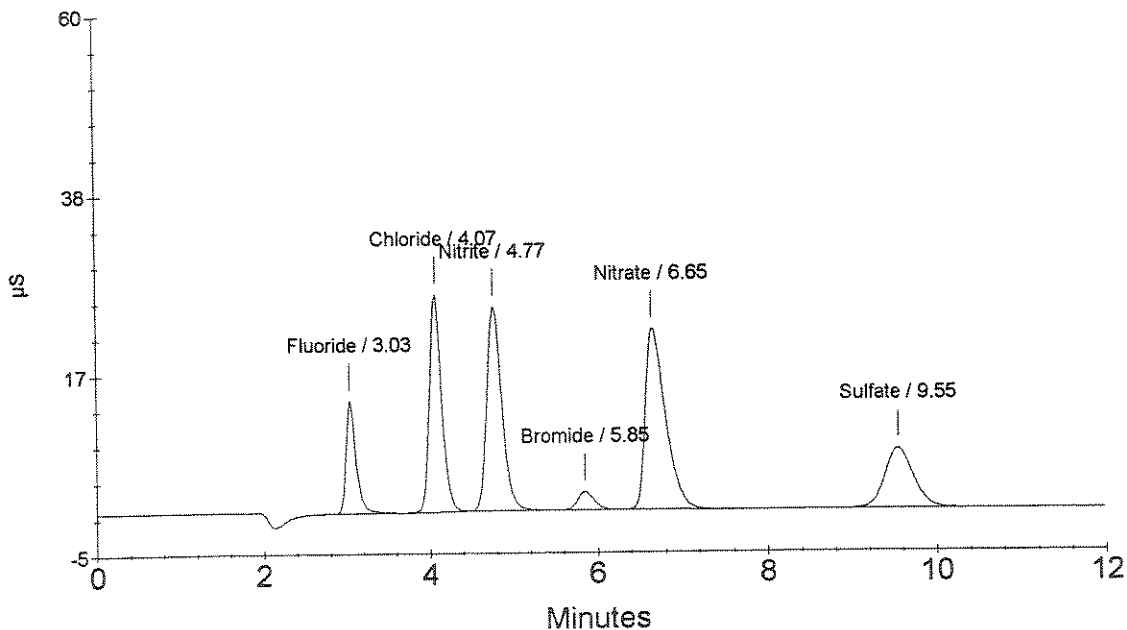
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	1.957	1145739
2	4.07	Chloride	6.288	2639406
3	4.77	Nitrite	3.579	3020297
4	5.85	Bromide	1.933	298989
5	6.65	Nitrate	3.591	3545718
6	9.55	Sulfate	6.418	1685063

OK
↓

TC 6/25/08

CCV



Ion Chromatography Analytical Report
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Sample Name : CCB
Data File Name : ...0624_034.DXD
Method File Name : ...20080623.met
Date Time Collected : 6/24/08 18:38:54

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

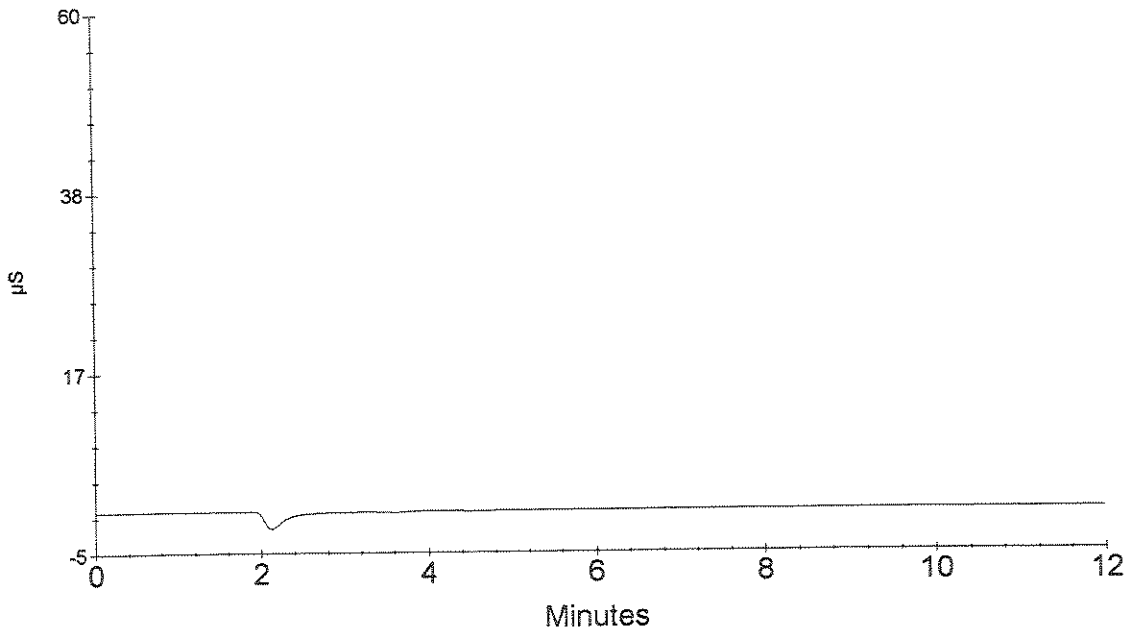
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK



TR 6/25/08

CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
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Sample Name : LCS
Data File Name : ...\\0624_035.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 18:53:10

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

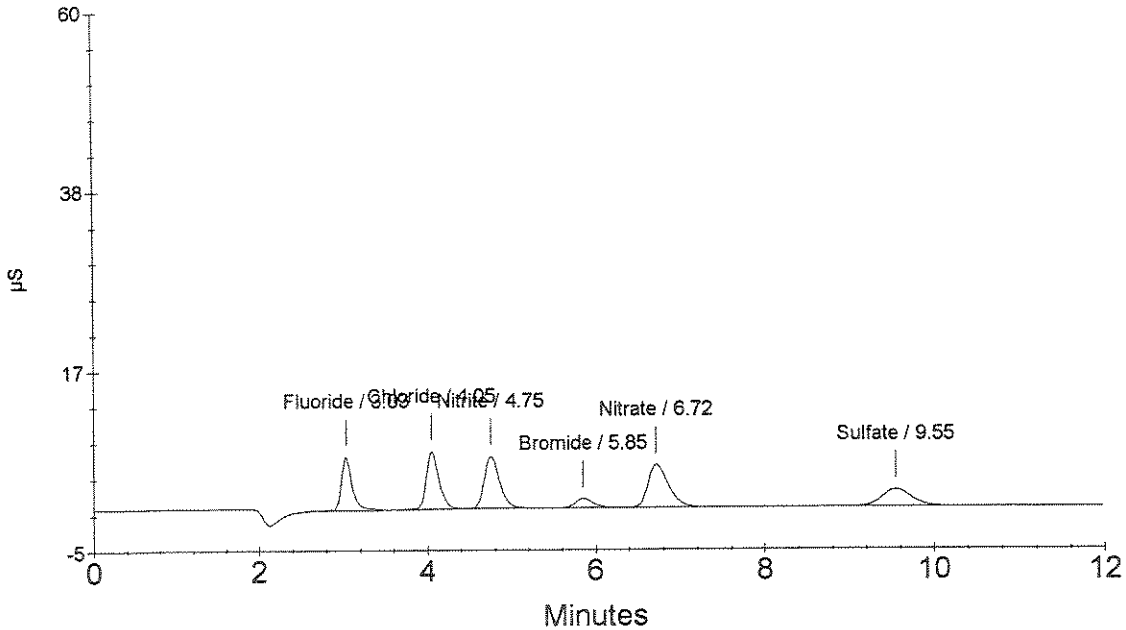
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	0.993	570220
2	4.05	Chloride	1.796	734429
3	4.75	Nitrite	0.940	764418
4	5.85	Bromide	0.984	153173
5	6.72	Nitrate	0.907	837151
6	9.55	Sulfate	1.887	481232

OK
↓
TC 6/25/08

LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111040
Data File Name : ...\\0624_036.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 19:07:26

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

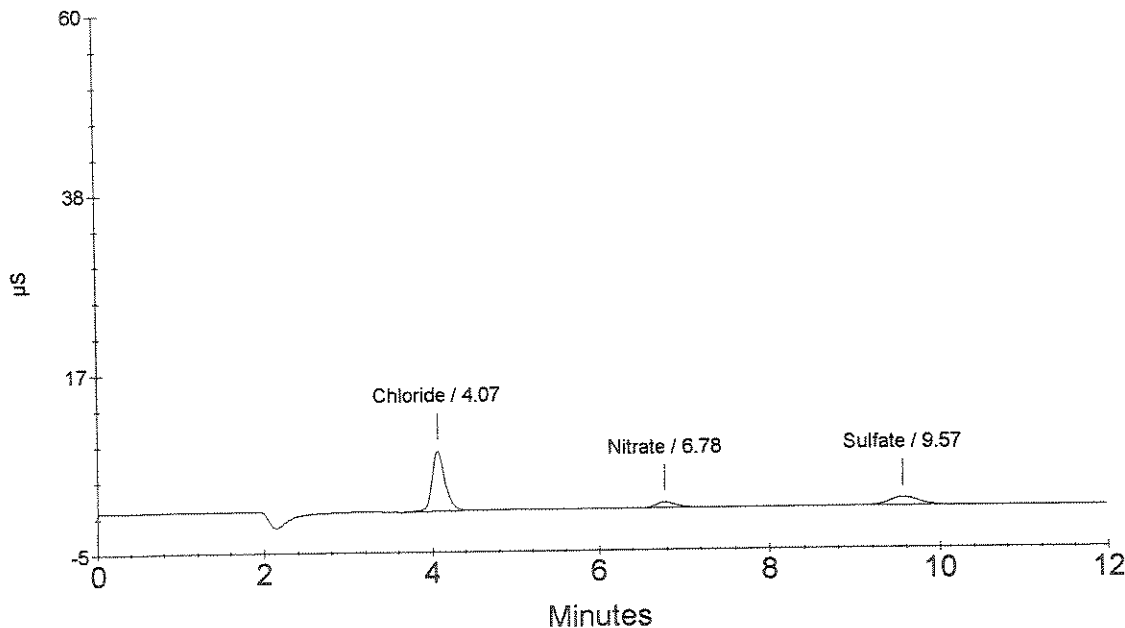
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	18.934	775883
1	4.07	Chloride Nitrite Bromide	18.934	775883
2	6.78	Nitrate	1.807	104356
3	9.57	Sulfate	9.508	232625

TC 6/25/08

1111040



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111040 DUP
 Data File Name : ...\\0624_037.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 19:21:47

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

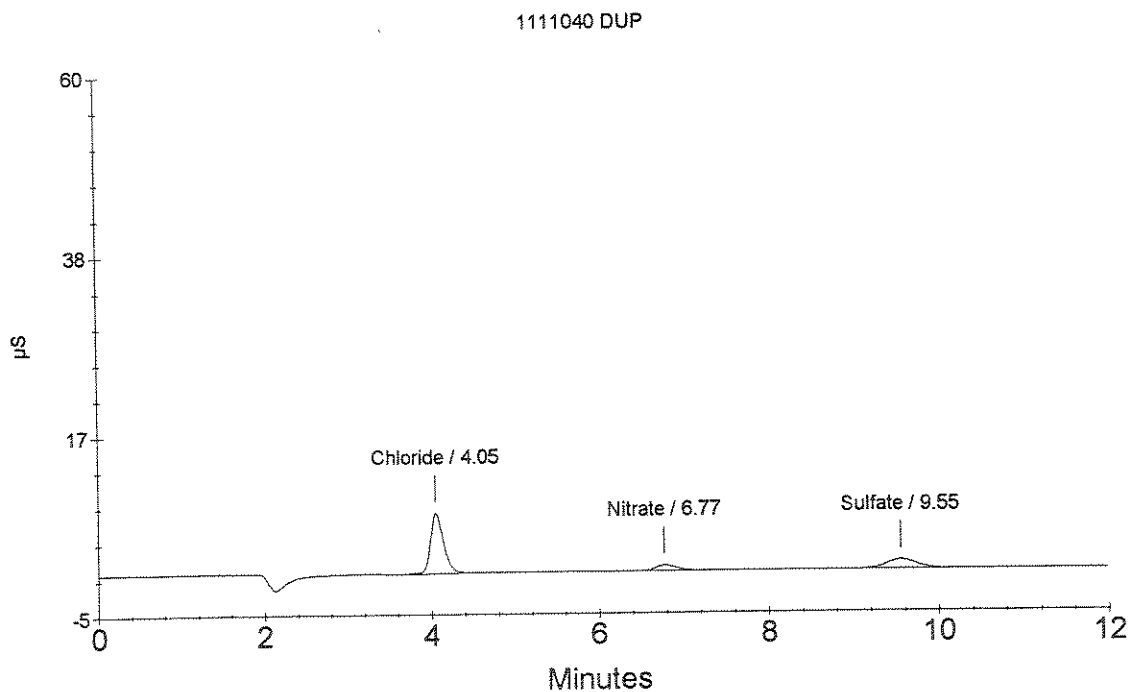
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : C

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	18.995	778464
1	4.05	Chloride <i>OK</i>	18.995	778464
		Nitrite		
		Bromide		
2	6.77	Nitrate	1.848	108539
3	9.55	Sulfate	10.359	255232

TC 6/25/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111040 SPK
Data File Name : ...\\0624_038.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 19:36:02

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

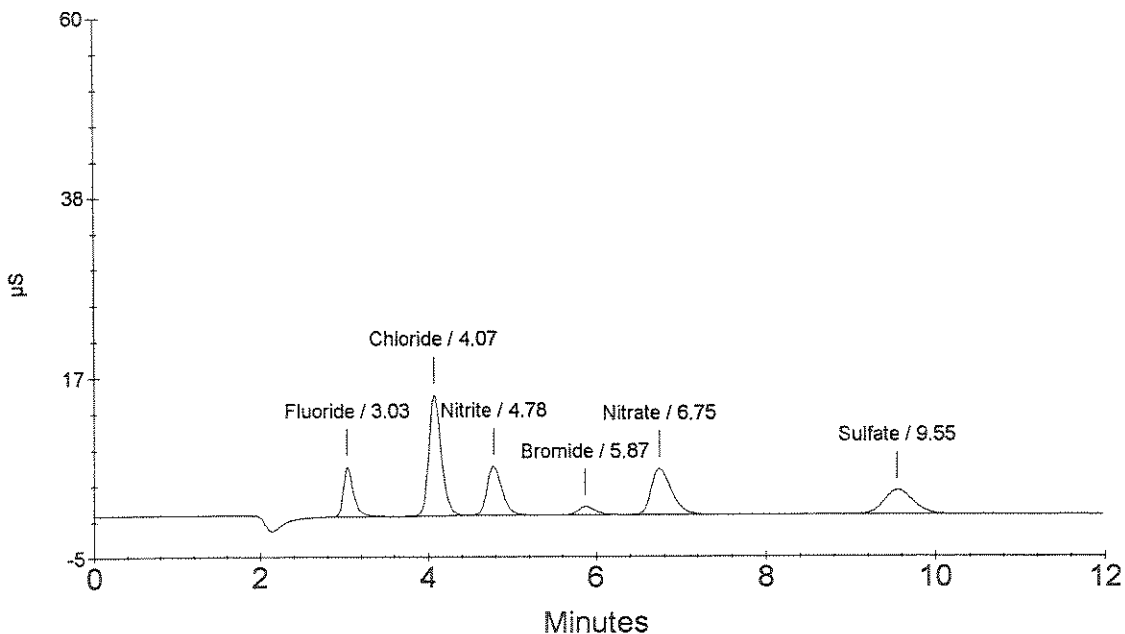
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	9.119	521845
2	4.07	Chloride	OK 36.140	1505520 - $\frac{18.934}{20} \times 100 = 86.0\%$
3	4.78	Nitrite	8.928	723968
4	5.87	Bromide	8.722	136026
5	6.75	Nitrate	9.795	910548
6	9.55	Sulfate	26.933	695571

R 0625108

1111040 SPK



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111041
 Data File Name : ...\\0624_039.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 19:50:17

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

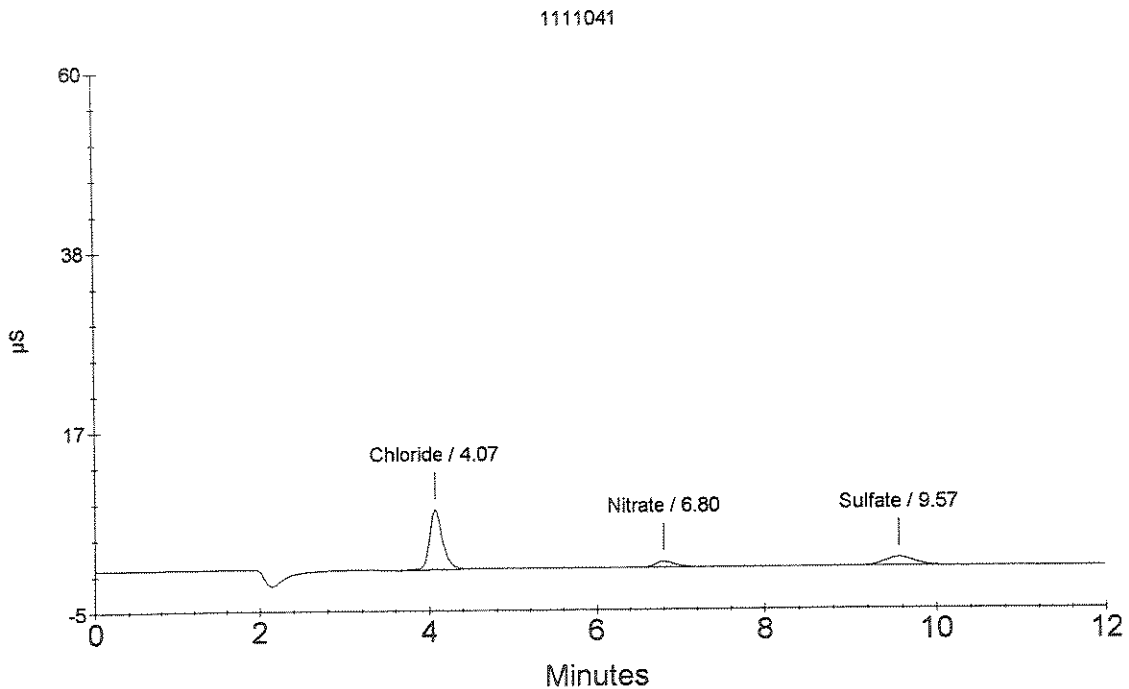
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : C

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	18.766	768746
1	4.07	Chloride Nitrite Bromide	OK 18.766	768746
2	6.80	Nitrate	1.880	111762
3	9.57	Sulfate	9.632	235928

TC 6/25/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111042
Data File Name : ...\\0624_040.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 20:04:31

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

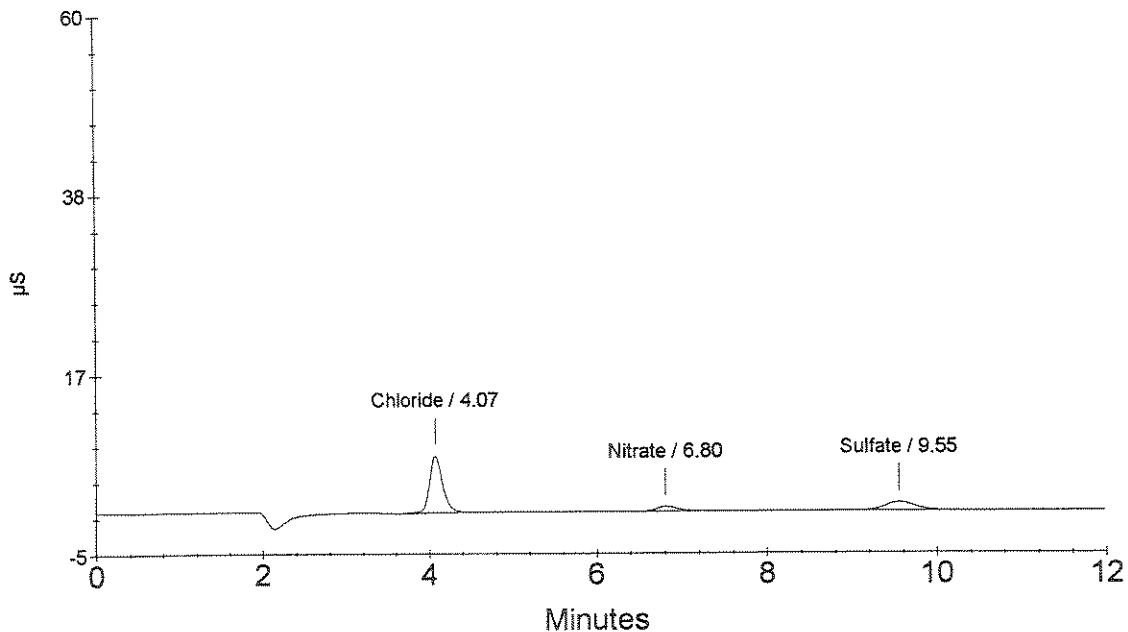
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	18.091	740135
1	4.07	Chloride Nitrite Bromide	18.091	740135
2	6.80	Nitrate	1.663	89889
3	9.55	Sulfate	9.630	235870

TC 6/25/08

1111042



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111043
Data File Name : ...\\0624_041.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 20:18:47

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

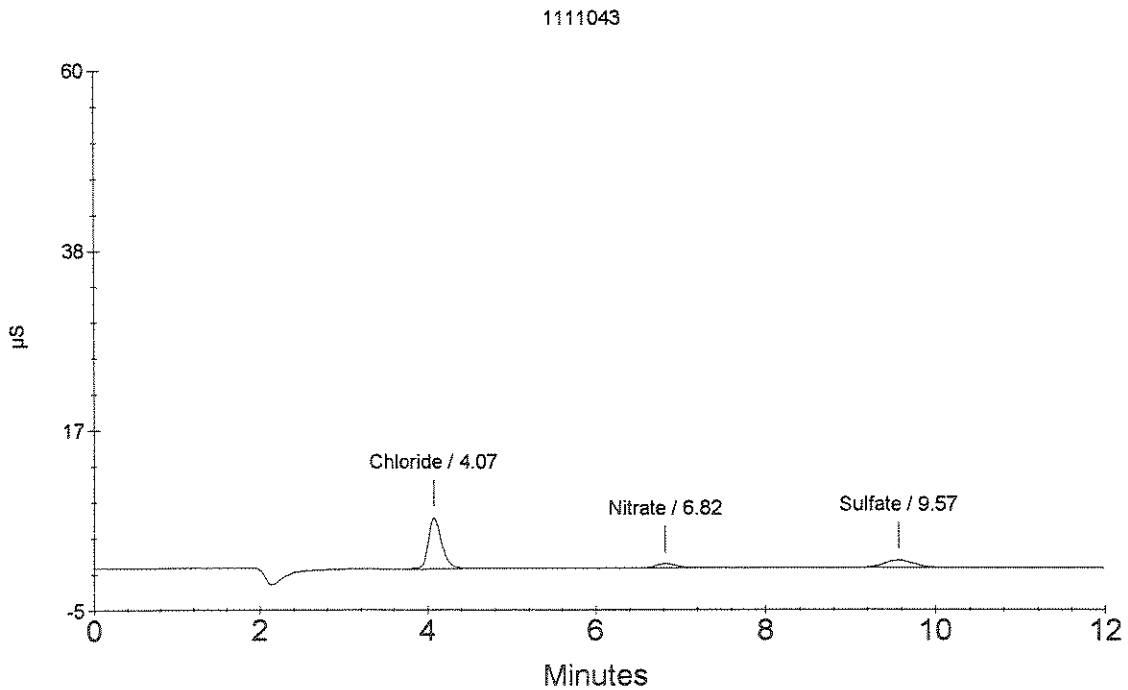
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	16.403	668546
1	4.07	Chloride Nitrite Bromide	16.403	668546
2	6.82	Nitrate	1.551	78611
3	9.57	Sulfate	8.441	204286

TC 625108



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111044
Data File Name : ...\\0624_042.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 20:33:03

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

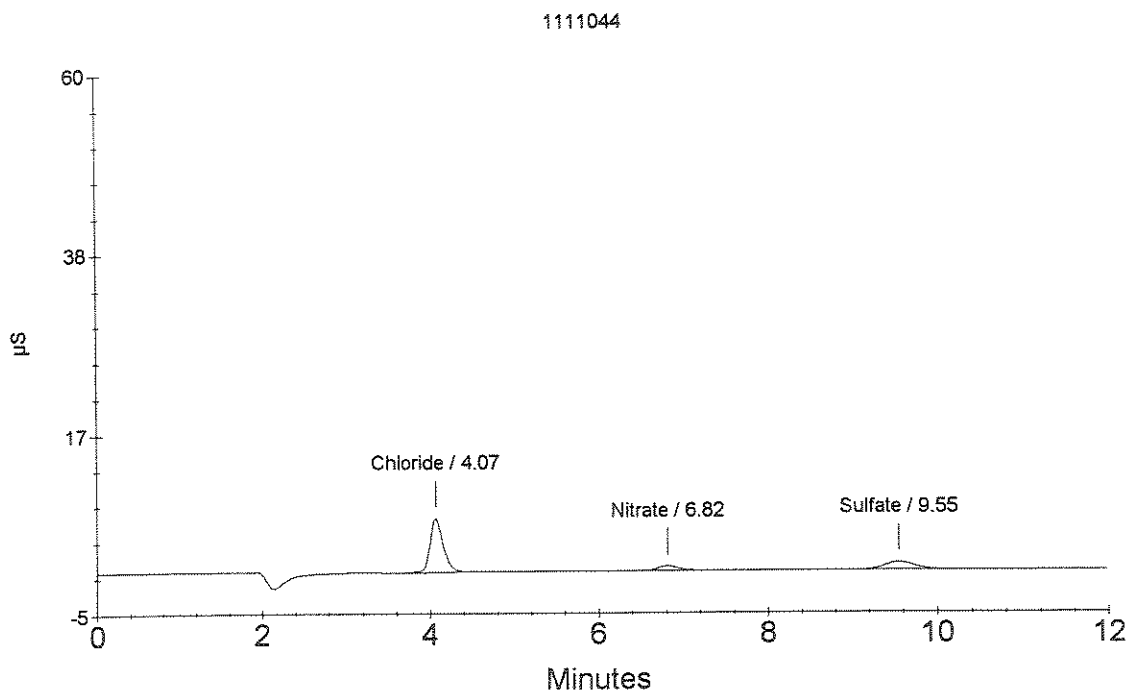
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	17.169	701016
1	4.07	Chloride Nitrite Bromide	OK 17.169	701016
2	6.82	Nitrate	1.674	90960
3	9.55	Sulfate	8.849	215121

TC 6/25/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111045
 Data File Name : ...\\0624_043.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/24/08 20:47:19

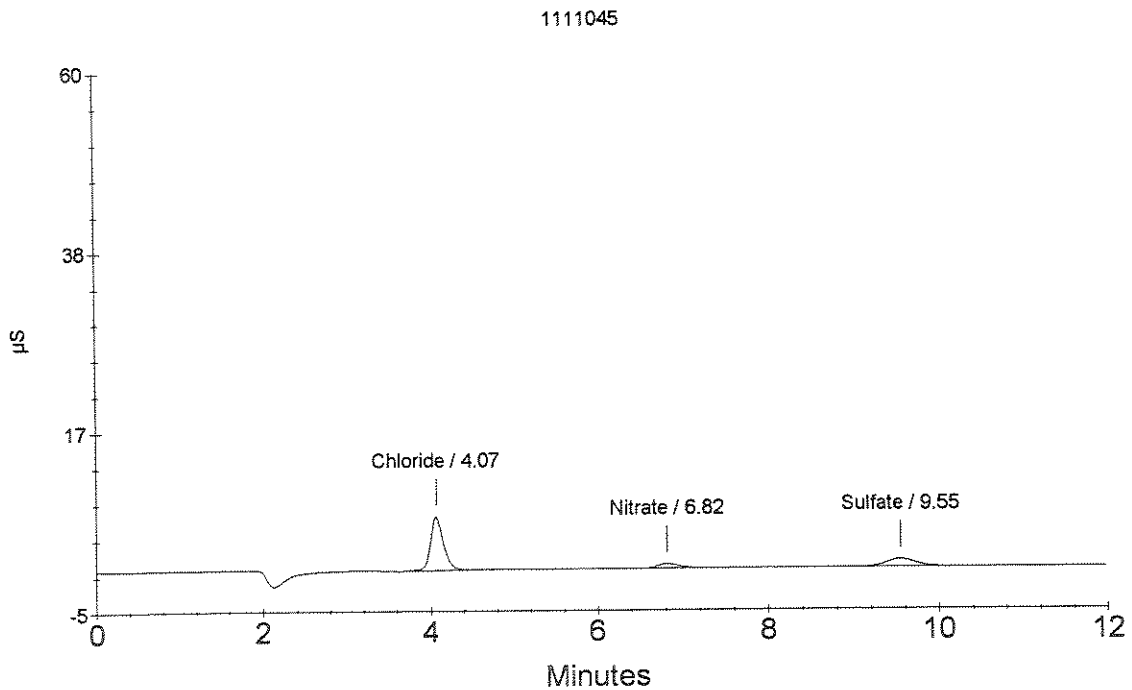
Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : C

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	17.224	703383
1	4.07	Chloride Nitrite Bromide	<i>OK</i> 17.224	703383
2	6.82	Nitrate	1.636	87143
3	9.55	Sulfate	<i>7</i> 8.646 <i>6/25/08</i>	209724



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111046
Data File Name : ...\\0624_044.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 21:01:36

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

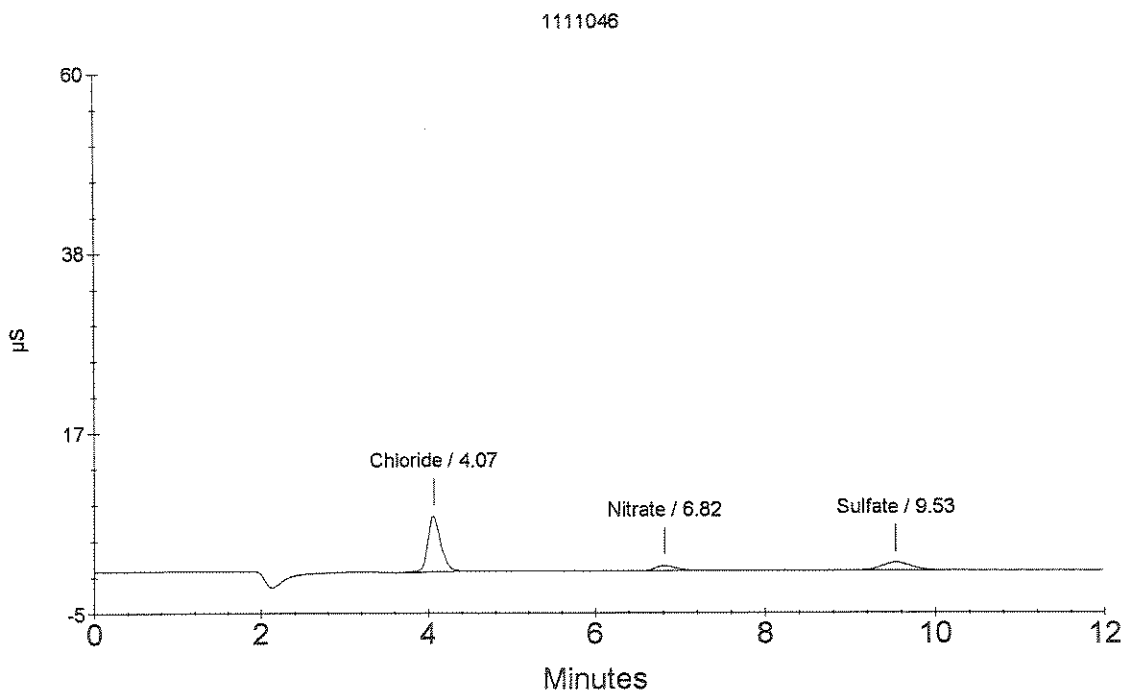
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	17.669	722225
1	4.07	Chloride Nitrite Bromide	OK 17.669	722225
2	6.82	Nitrate	1.726	96243
3	9.53	Sulfate	9.018	219600

TC 6/25/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111047
Data File Name : ...\\0624_045.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 21:15:51

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

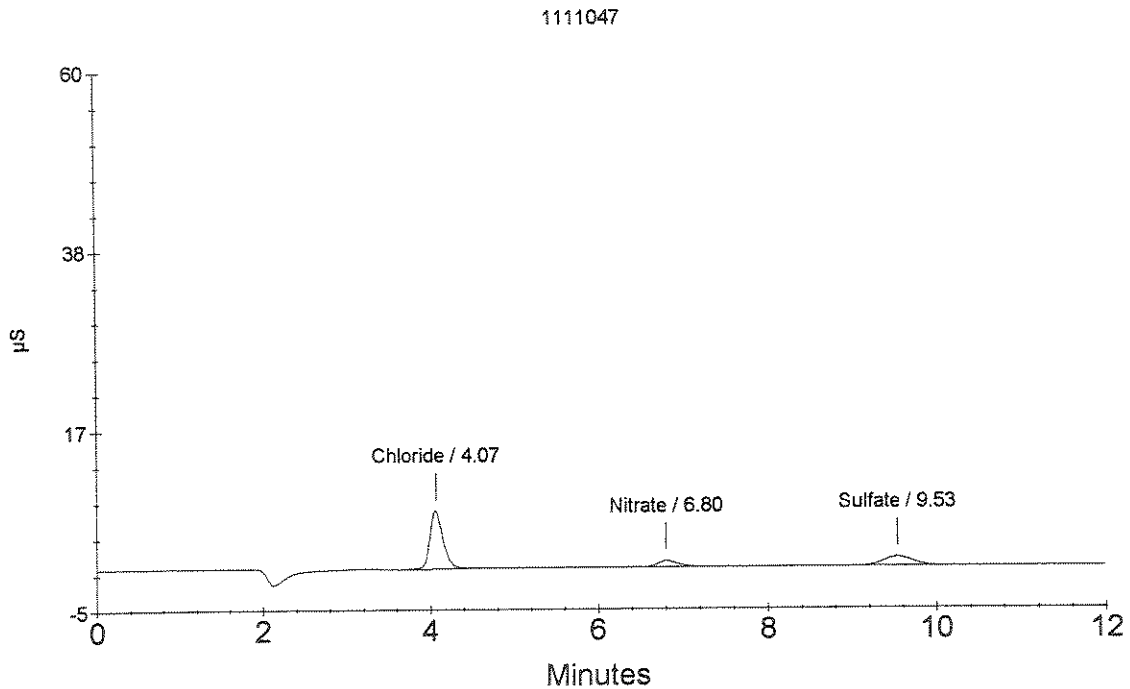
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	18.582	760970
1	4.07	Chloride Nitrite Bromide	OK 18.582	760970
2	6.80	Nitrate	1.947	118567
3	9.53	Sulfate	10.313	254003

TC 6/25/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1111048
Data File Name : ...\\0624_046.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 21:30:12

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

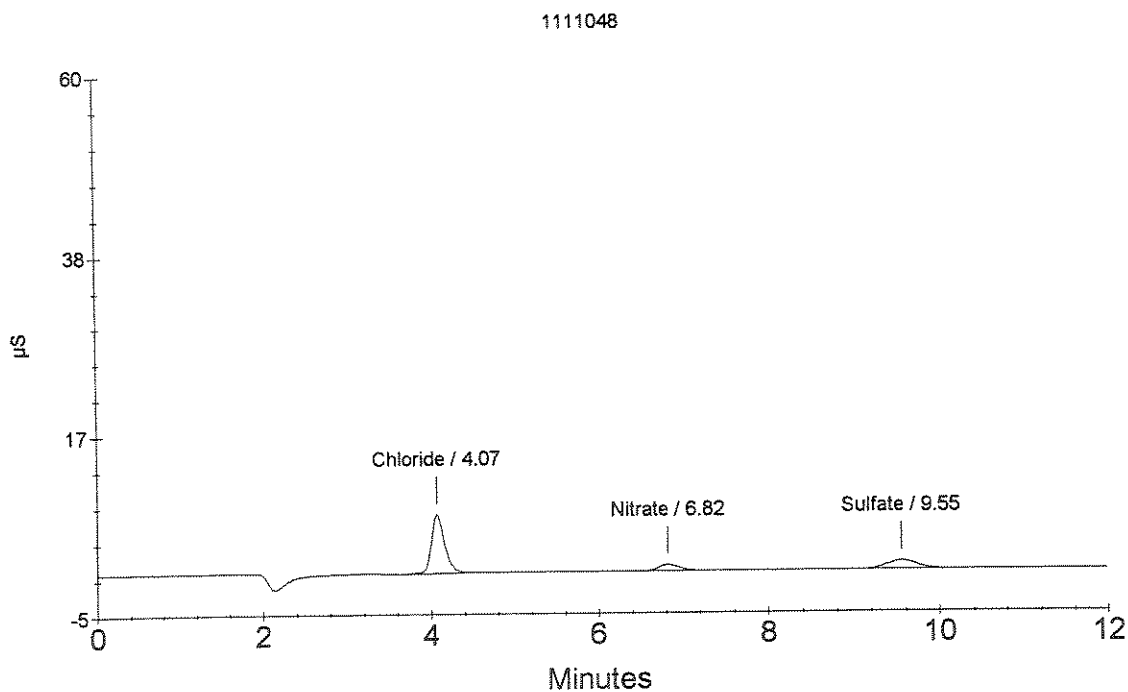
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : C

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.07	Chloride	18.586	761141
1	4.07	Chloride Nitrite Bromide	OK 18.586	761141
2	6.82	Nitrate	1.941	117928
3	9.55	Sulfate	9.557	233924

TC 6/25/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\0624_047.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/24/08 21:44:28

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

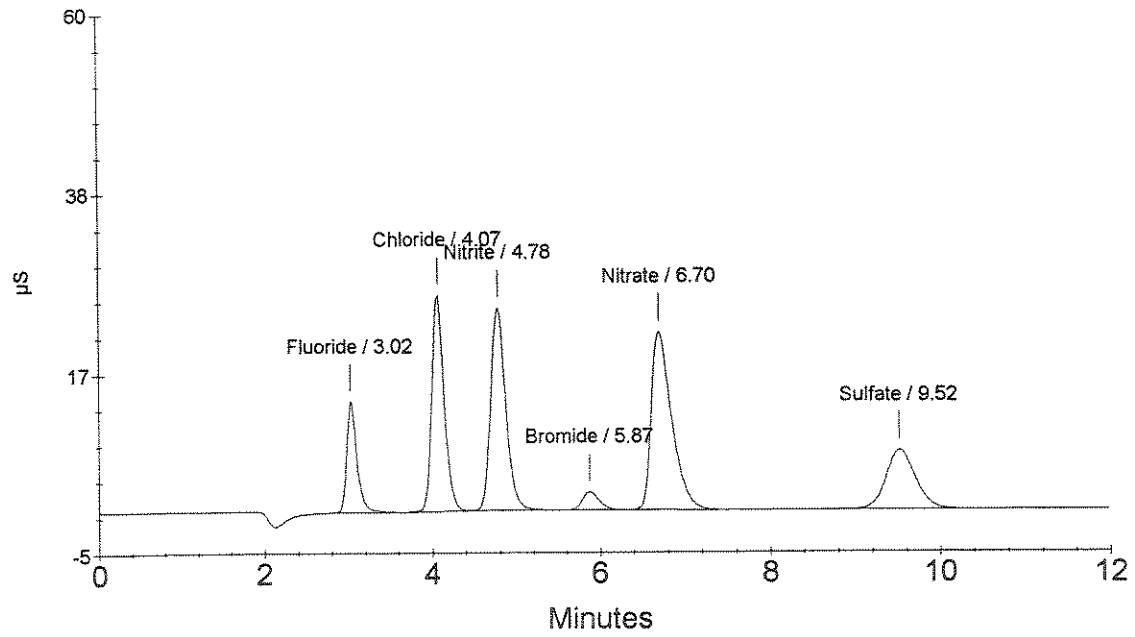
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.02	Fluoride	1.961	1148132
2	4.07	Chloride	6.300	2644305
3	4.78	Nitrite	3.590	3029665
4	5.87	Bromide	1.945	300843
5	6.70	Nitrate	3.594	3548519
6	9.52	Sulfate	6.432	1688847

OK
↓

TC 6/25/08

CCV



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCB
 Data File Name : ... \0624_048.DXD
 Method File Name : ... \20080623.met
 Date Time Collected : 6/24/08 21:58:50

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

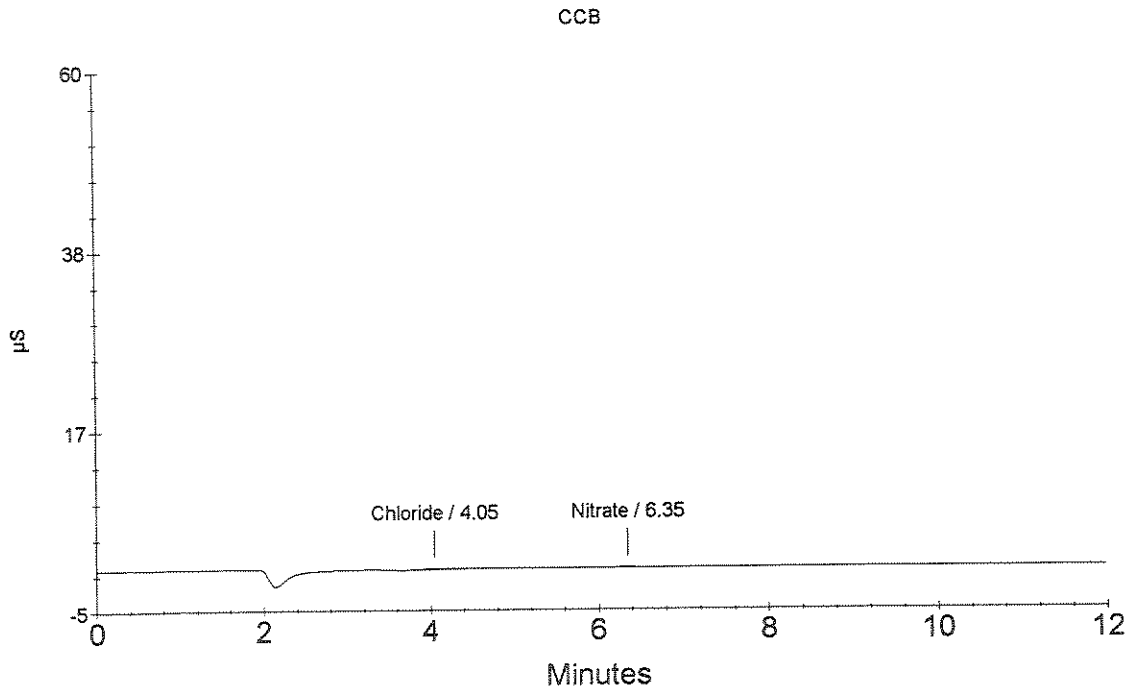
Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.05	Chloride	0.134	29733
1	4.05	Chloride	0.134	29733
		Nitrite		
		Bromide		
2	6.35	Nitrate	0.087	9834
		Sulfate		

OK
 ↓
R 6/25/08



Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: ~~06/10/08~~
6/23/08 *Christ*

Loop size: 100 uL

Analyst: Tracy Christ

Analysis Date: 6/23/08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A	Working Calibration Stds	06/10/08 6/23/08 <i>Christ</i>	WC72050I
LCS / MS Intermediate	06/23/08	WC72050A	Working LCS/MS Standard	06/23/08	WC72093C
ICV Intermediate	06/23/08	WC90100A	Working ICV Standard	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A	Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

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	WC12055CA	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC120553A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC120553B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC120553C
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 Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: ~~06/10/08~~
6/23/08 *CFP/ps*

Loop size: 100 uL

Analyst: Tracy Christ

Analysis Date: 6/23/08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	06/10/08	WC72050A	Working Calibration Stds	06/10/08 6/23/08 <i>CFP/ps</i>	WC72050I
LCS / MS Intermediate	06/23/08	WC72050A	Working LCS/MS Standard	06/23/08	WC72093C
ICV Intermediate	06/23/08	WC90100A	Working ICV Standard	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A	Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

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	WC85099F	1000	10	200	50	TC	6/10/08	A	12/10/08	WC120050A
Cl	WC85106C	1000	20		100			B		
NO2	WC12001J	1000	10		50			C		
Br	WC85160D	1000	10	12/10/08	50			D		
NO3	WC12002N	1000	10		50			E		
OPO4	—	1000	10		50			F		
SO4	WC12001Y	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.								Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
				F	Cl	NO2	Br	NO3	OPO4	SO4						
9		10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	5.0	10.0	TC	6/10/08	H	6/17/08	WC120050H
8		8.0		4.0	8.0	4.0	4.0	4.0	4.0	4.0	8.0	TC	6/23/08	I	6/23/08	WC120050I
7		2.0	205.0 (K19305)	2.5	5.0	2.5	2.5	2.5	2.5	2.5	5.0			J		
6		1.0		1.0	2.0	1.0	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	0.50	1.0			L		
4		0.5		0.25	0.50	0.25	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	0.10	0.20			N		
2		0.1		0.05	0.10	0.05	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	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	WC72093A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC72093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC72093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC72093C
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	WC85057C	1000	4.0	1000	4.0	TC	6/23/08	A	9/25/08	WC90100A
Cl	WC85100D	650	20.0		13.0			B		
NO2	WC72007E	180	40.0		7.2			C		
Br	WC85057D	1000	4.0		4.0			D		
NO3	WC72007N	180	40.0		7.2			E		
OPO4	---	180	40.0		7.2			F		
SO4	WC72000Y	3200	4.0		12.8			G		

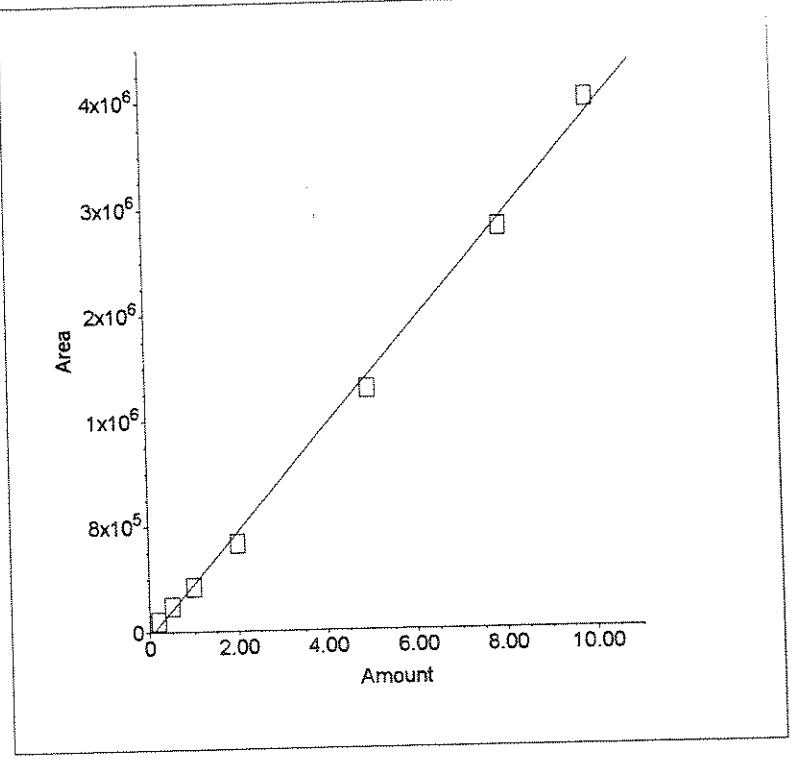
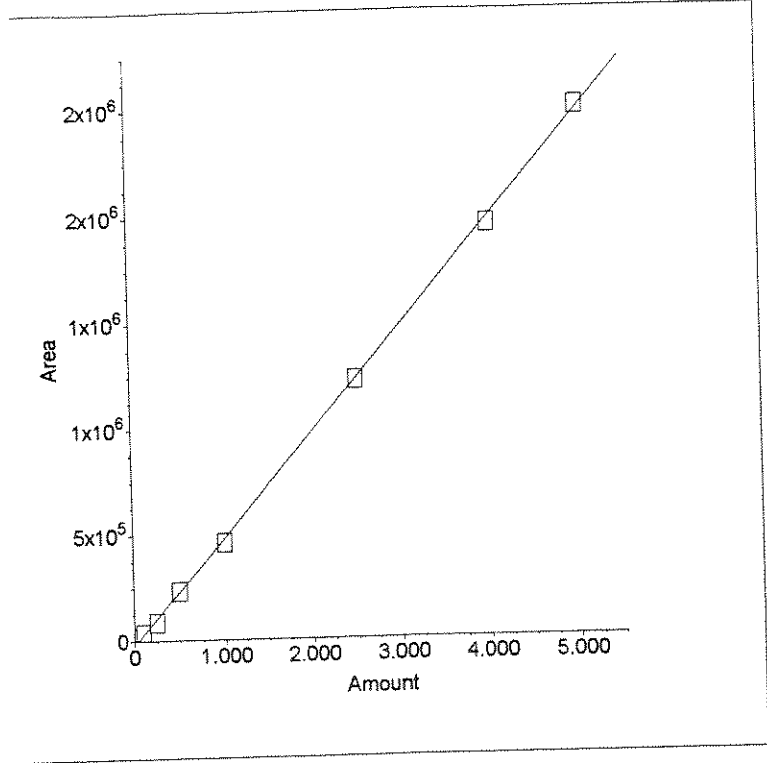
WORKING ICV / CCV PREP

(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	WC90100A	4.0	5.0	20.0	1.0	TC	DAILY	H	WC90100H
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				

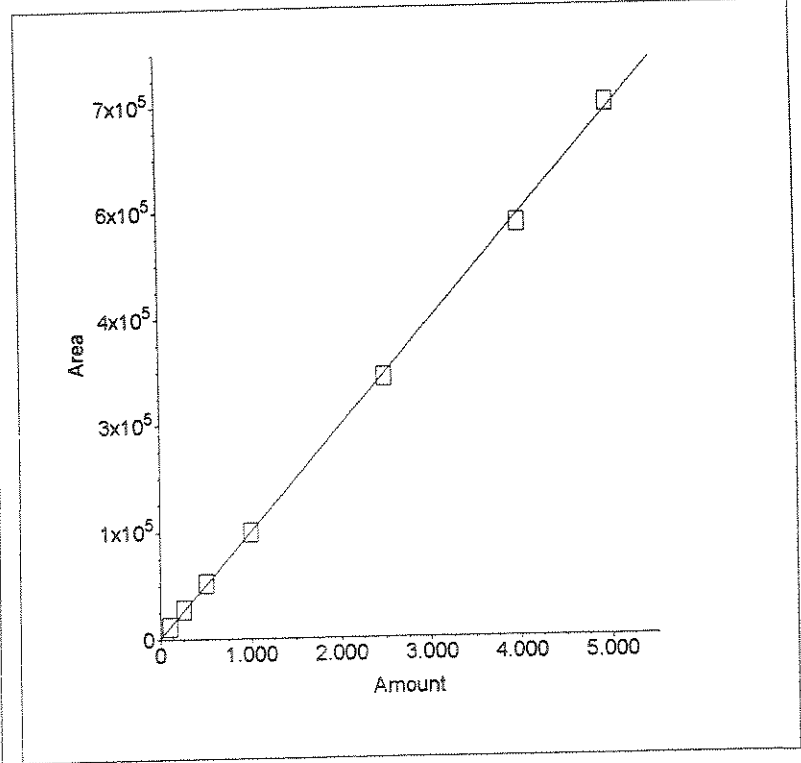
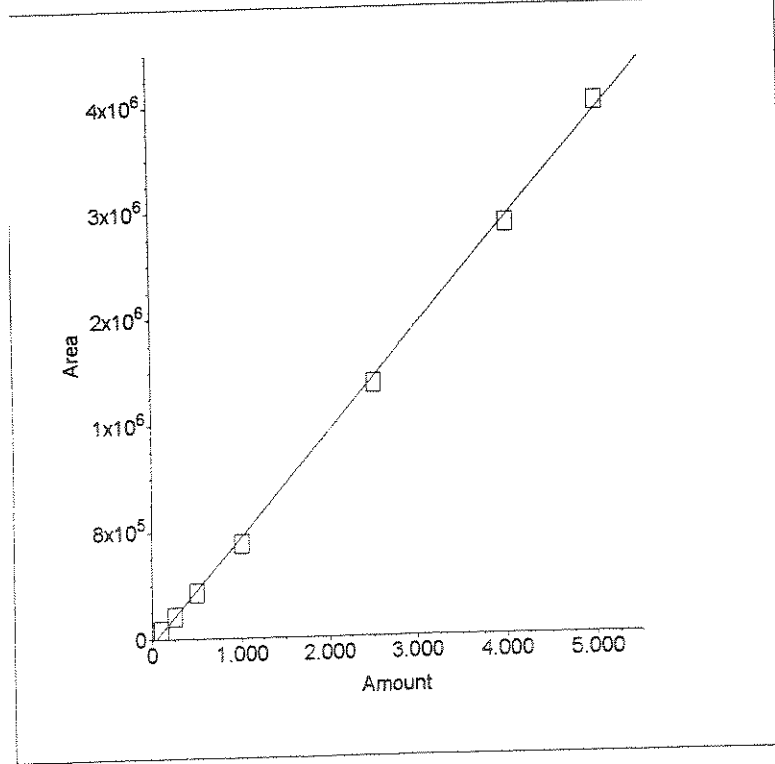
Component: Fluoride
 Standard: External Fit Type: Linear
 Origin: Include Calibration: Area
 $r^2 = 0.999665$
 $Amt = 1.675e-006 * Resp + 0.03759$

2. Component: Chloride
 Standard: External Fit Type: Linear
 Origin: Include Calibration: Area
 $r^2 = 0.997779$
 $Amt = 2.351e-006 * Resp + 0.08597$



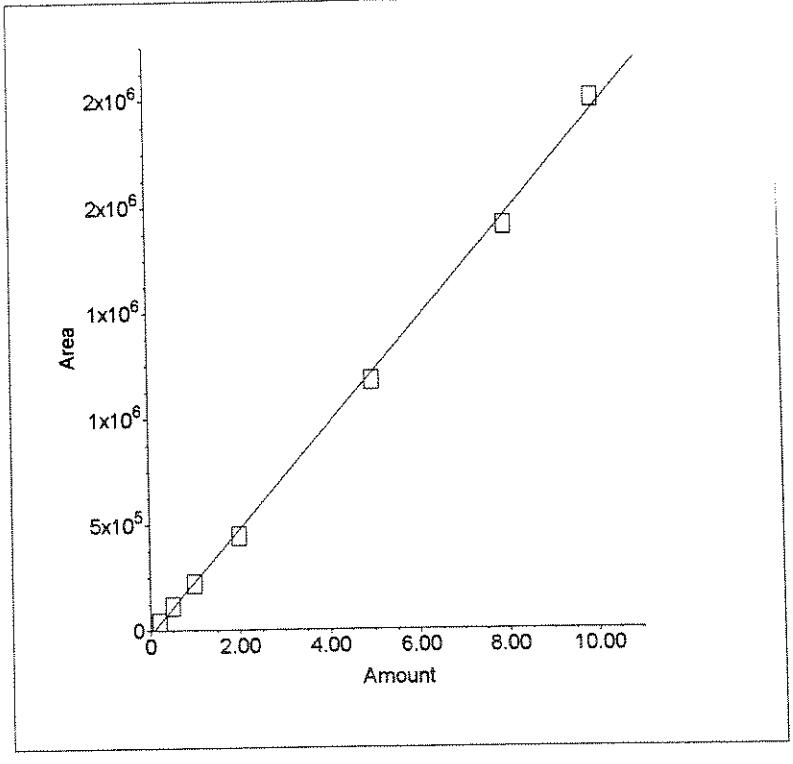
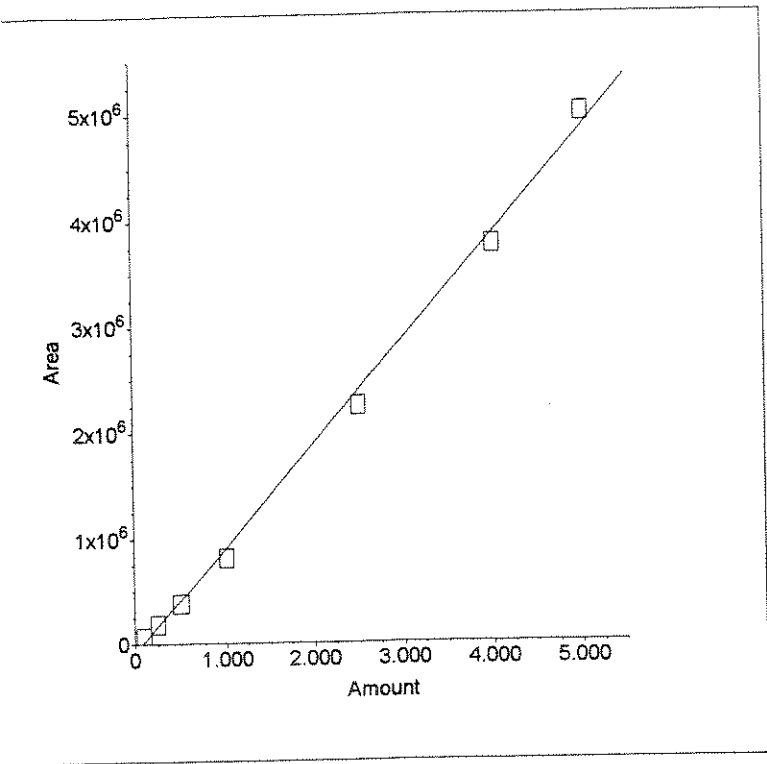
3. Component: Nitrite
 Standard: External Fit Type: Linear
 Origin: Include Calibration: Area
 $r^2 = 0.999196$
 $Amt = 1.17e-006 * Resp + 0.04595$

4. Component: Bromide
 Standard: External Fit Type: Linear
 Origin: Include Calibration: Area
 $r^2 = 0.999576$
 $Amt = 6.508e-006 * Resp + -0.0131$



Component:Nitrate
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.997377$
Amt= $9.909e-007 * Resp + 0.07724$

6. Component:Sulfate
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.998832$
Amt= $3.764e-006 * Resp + 0.07519$



Method Report - 20080623.met

Method Information : Select Module(s)

System Name : DX-Lan IC#4
System Number : 1
Method Type : Ion Chromatography
Column : AS-14 (022939) AG-14 (022002)
Analyst : T. CHRIST
Comment : Calibration 06.23.2008

ED40 Timed Events

Module Name :
Module Serial Number :
Operating Mode : Conductivity
SRS Current : 100 mA
Temperature Compensation : 1.7
Cell Temperature : 35 °C

Time	Range (μ S)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000	*		Low	Low	Open	Closed	
0.00	10.000	*		Low	Low	Open	Closed	
0.10	10.000			Low	Low	Closed	Closed	
2.20	0.010	*		Low	Low	Open	Closed	Begin

ED40 Detector Parameters

Detector Type : ED40
Data collection time (minutes) : 12.00
Data Collection Rate : 1.00
Real time plot scale maximum (μ S) : 60.000
Real time plot scale minimum (μ S) : -5.000

ED40 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 10.00
Peak threshold : 5.00
Peak area reject (area counts) : 10.00
Reference peak area reject (area counts) : 1000.00

ED40 Smoothing Parameters

Filter Type : No filter

ED40 Report Data

Report Format File : J:\ACQUDATA\IC\METHOD.ACI\Ic#4\As14.rpt
Print Sample Analysis : Yes
Print Calibration Update : Yes
Print Check Standard : Yes
System Suitability Tests :
No system suitability tests selected.

ED40 Integration Data Events

Time	Description
0.00	Stop peak detection
2.50	Force baseline at start of all peaks
2.65	Start peak detection
3.03	Halve peak threshold
6.75	Double peak threshold

ED40 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 : mg/L
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

ED40 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.03 min	10.00 %	
Chloride	4.05 min	10.00 %	
Nitrite	4.75 min	10.00 %	
Bromide	5.77 min	10.00 %	
Nitrate	6.55 min	10.00 %	
Sulfate	9.58 min	10.00 %	

ED40 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.03 min	0.05	5
Chloride	4.05 min	0.1	10
Nitrite	4.75 min	0.05	5
Bromide	5.77 min	0.05	5
Nitrate	6.55 min	0.05	5
Sulfate	9.58 min	0.1	10

ED40 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.03 min	Linear	Include	Area	Fluoride	0.00
Chloride	4.05 min	Linear	Include	Area	Fluoride	0.00
Nitrite	4.75 min	Linear	Include	Area	Fluoride	0.00
Bromide	5.77 min	Linear	Include	Area	Fluoride	0.00
Nitrate	6.55 min	Linear	Include	Area	Fluoride	0.00
Sulfate	9.58 min	Linear	Include	Area	Fluoride	0.00

ED40 Component = Fluoride Levels Table

Retention Time : 3.03 min
 Amount units : mg/L
 Replicate unit type : Area
 Number of levels : 9
 Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14479.5 <i>anomaly</i>
2	0.05	20511
3	0.10	43487
4	0.25	105401
5	0.50	280927
6	1.00	552422
7	2.50	1.46795e + 006
8	4.00	2.33476e + 006
9	5.00	2.99043e + 006

ED40 Component = Chloride Levels Table

Retention Time : 4.05 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	24587 <i>anomaly</i>
2	0.10	60631.5
3	0.20	89946.5
4	0.50	211274
5	1.00	372164
6	2.00	726484
7	5.00	1.98111e + 006
8	8.00	3.29425e + 006
9	10.00	4.33396e + 006

ED40 Component = Nitrite Levels Table

Retention Time : 4.75 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	8660 <i>anomaly</i>
2	0.05	33073
3	0.10	69578
4	0.25	180651
5	0.50	368469
6	1.00	765373
7	2.50	2.04825e + 006
8	4.00	3.32678e + 006
9	5.00	4.30979e + 006

ED40 Component = Bromide Levels Table

Retention Time : 5.77 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	27470 <i>anomaly</i>
2	0.05	10012
3	0.10	18904.5
4	0.25	43438
5	0.50	81453
6	1.00	155388
7	2.50	381974
8	4.00	605052
9	5.00	780891

ED40 Component = Nitrate Levels Table

Retention Time : 6.55 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5310.5 <i>anomaly</i>
2	0.05	35011
3	0.10	71578.5
4	0.25	194199
5	0.50	397776
6	1.00	839066
7	2.50	2.30165e + 006
8	4.00	3.85904e + 006
9	5.00	5.12256e + 006

ED40 Component = Sulfate Levels Table

Retention Time : 9.58 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7283 <i>anomaly</i>
2	0.10	24864.5
3	0.20	44110
4	0.50	126543
5	1.00	239635
6	2.00	482251
7	5.00	1.26865e + 006
8	8.00	2.05728e + 006
9	10.00	2.69691e + 006

ED40 XY Data Parameters

GP40 Timed Events

Module Name :

Module Serial Number :

Description : Anions on an AS-16/AG-16 Column setup with a carbonate/bicarbonate eluent.

High Pressure Limit : 4000.0

Low Pressure Limit : 30.0

Eluent A :

Eluent B : 35mM Na₂CO₃ / 10mM NaHCO₃

Eluent C :

Eluent D :

Piston Size : Standard

Pressure Unit : psi

Oven Not Installed

Time	Flow	%A	%B	%C	%D	Curve	Comment
Init	1.00	0.00	100.00	0.00	0.00	5	start AS40 load cycl
0.00	1.00	0.00	100.00	0.00	0.00	5	preparing to inject
0.10	1.00	0.00	100.00	0.00	0.00	5	preparing to inject
2.20	1.00	0.00	100.00	0.00	0.00	5	Injecting sample
3.20	1.00	0.00	100.00	0.00	0.00	5	Finished injection

Time	Valve	Column	TTL1	TTL2	Relay1	Relay2
Init	Load	A	High	Low	Open	Open
0.00	Load	A	High	Low	Open	Open
0.10	Load	A	High	High	Open	Open
2.20	Inject	A	High	Low	Open	Open
3.20	Load	A	Low	Low	Open	Open

Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 1
Sample Type : Calibration Update
Data File Name : ...\\0623_001.DXD
Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 14:13:30
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Comment : ANALYST: TC
Data Collection Rate : 1.00 Hz

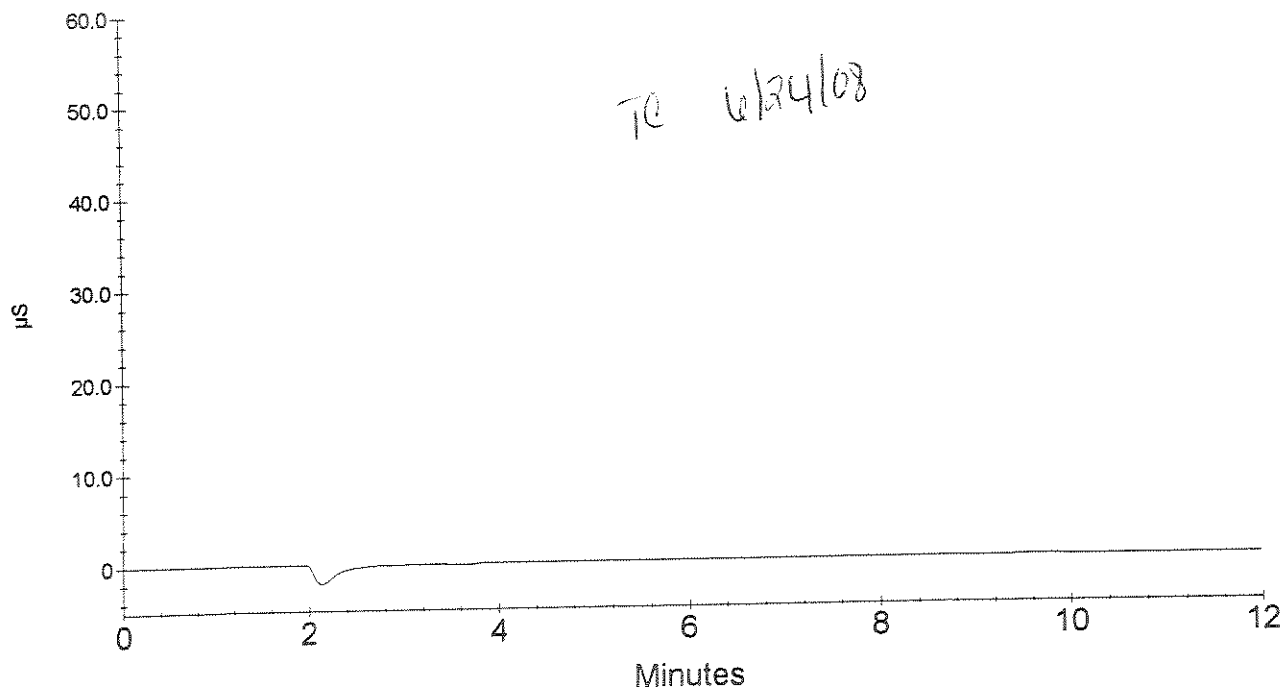
Calibration Type : EXTERNAL
Calibration Level : 1

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.00	0	0.00

OK

STANDARD 1



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Sample Name : STANDARD 2
 Sample Type : Calibration Update
 Data File Name : ... \0623_002.DXD
 Method File Name : ... \20080623.met

Date Time Collected : 6/23/08 14:27:46
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

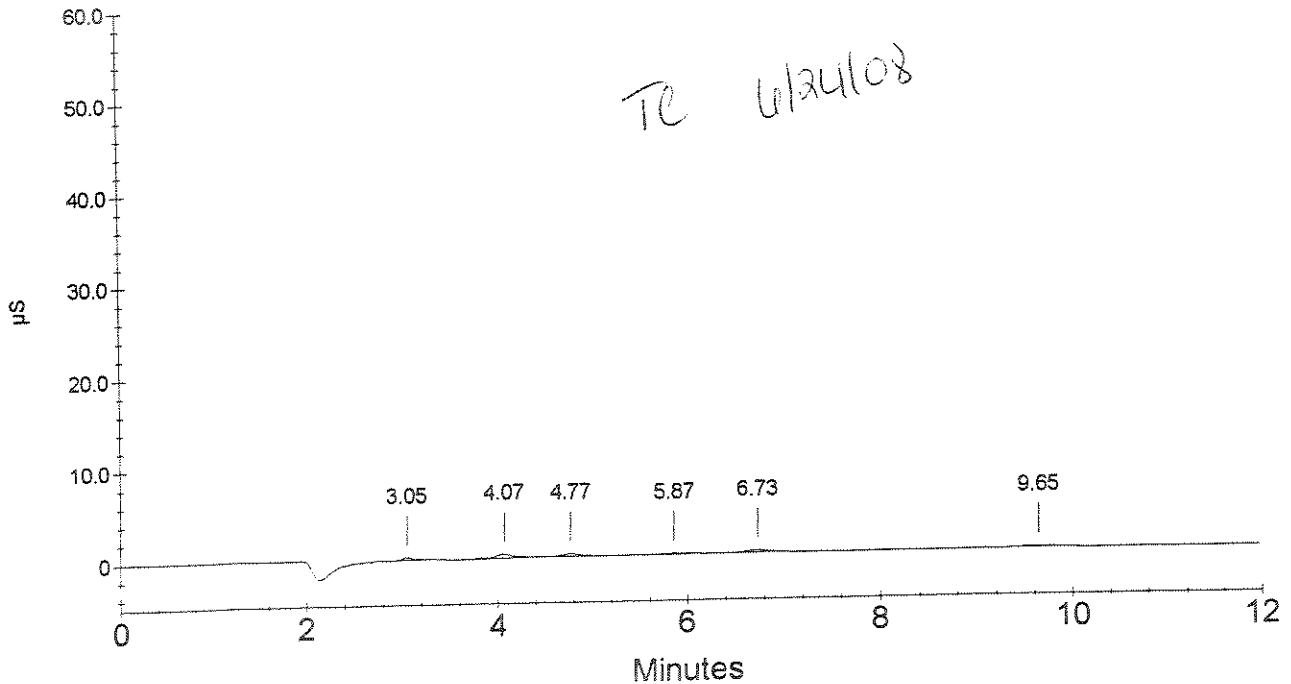
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 2

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.05	Fluoride	0.05	20511	20511.00
2	4.07	Chloride	0.10	60632	60631.50
3	4.77	Nitrite	0.05	33073	33073.00
4	5.87	Bromide	0.05	10012	10012.00
5	6.73	Nitrate	0.05	35011	35011.00
6	9.65	Sulfate	0.10	24865	24864.50

STANDARD 2



Ion Chromatography Calibration Report
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 Rochester, NY 14607

Sample Name : STANDARD 3
 Sample Type : Calibration Update
 Data File Name : ...\\0623_003.DXD
 Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 14:42:03
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

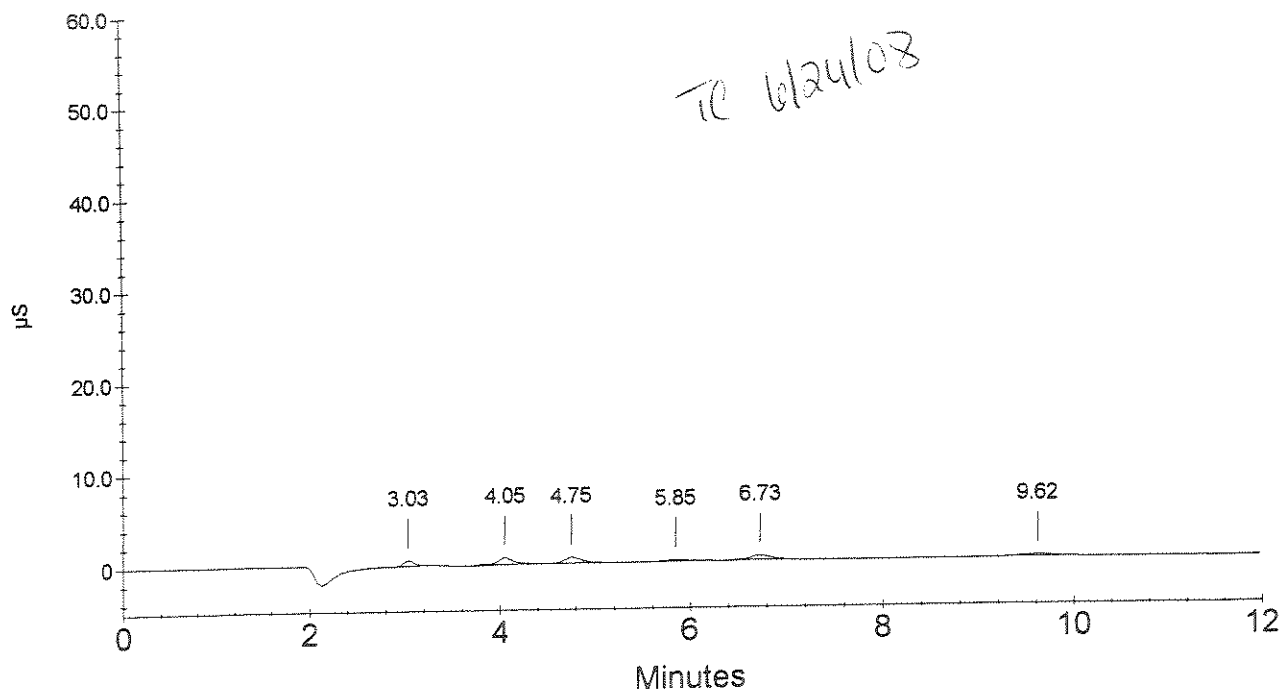
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 3

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.03	Fluoride	0.10	43487	43487.00
2	4.05	Chloride	0.20	89947	89946.50
3	4.75	Nitrite	0.10	69578	69578.00
4	5.85	Bromide	0.10	18905	18904.50
5	6.73	Nitrate	0.10	71579	71578.50
6	9.62	Sulfate	0.20	44110	44110.00

STANDARD 3



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Sample Name : STANDARD 4
 Sample Type : Calibration Update
 Data File Name : ...\\0623_004.DXD
 Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 14:56:25
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

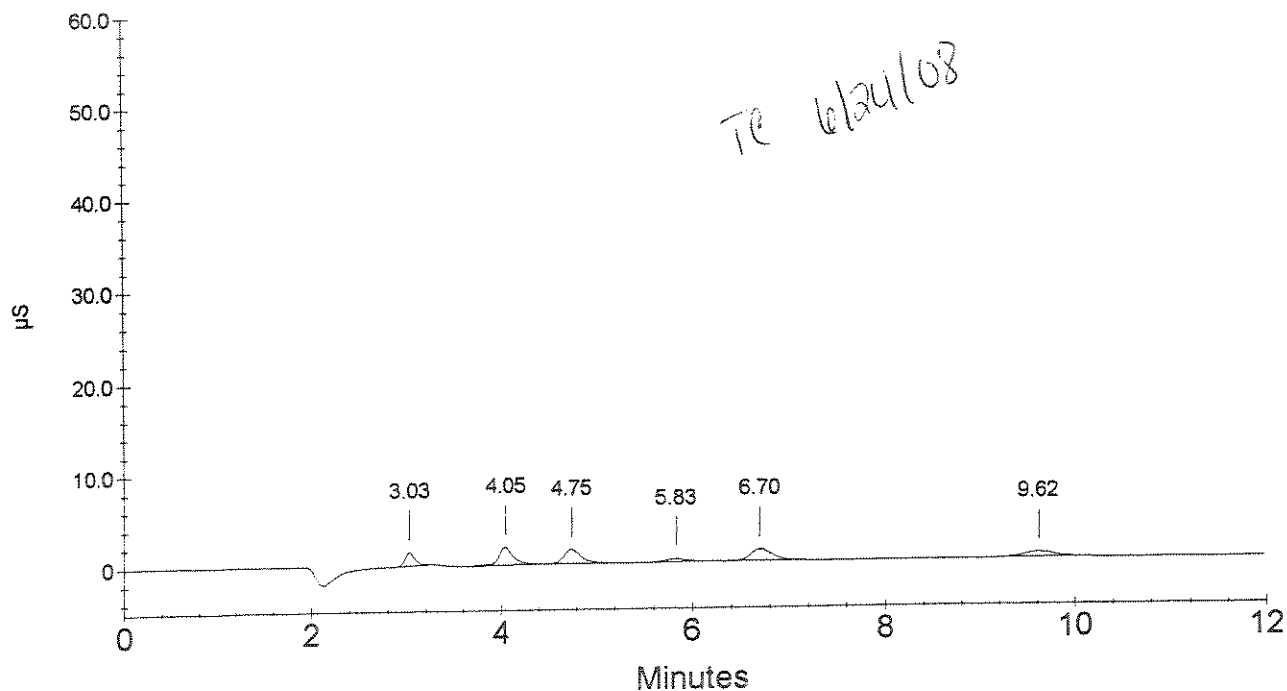
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 4

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.03	Fluoride	0.25	105401	105400.50
2	4.05	Chloride	0.50	211274	211273.50
3	4.75	Nitrite	0.25	180651	180651.00
4	5.83	Bromide	0.25	43438	43438.00
5	6.70	Nitrate	0.25	194199	194199.00
6	9.62	Sulfate	0.50	126543	126543.00

STANDARD 4



Ion Chromatography Calibration Report
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Sample Name : STANDARD 5
 Sample Type : Calibration Update
 Data File Name : ...\\0623_005.DXD
 Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 15:10:47
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

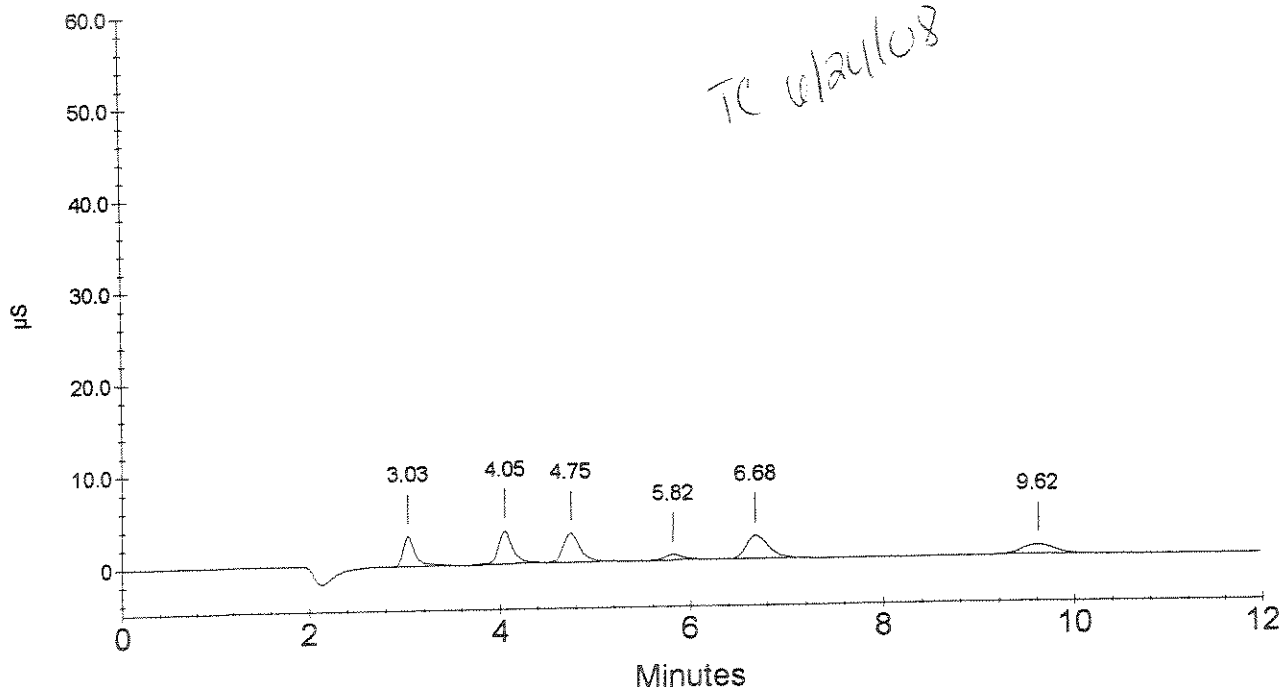
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 5

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.03	Fluoride	0.50	280927	280927.00
2	4.05	Chloride	1.00	372164	372164.00
3	4.75	Nitrite	0.50	368469	368469.00
4	5.82	Bromide	0.50	81453	81453.00
5	6.68	Nitrate	0.50	397776	397775.50
6	9.62	Sulfate	1.00	239635	239635.00

STANDARD 5



Ion Chromatography Calibration Report
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Sample Name : STANDARD 6
 Sample Type : Calibration Update
 Data File Name : ...\\0623_006.DXD
 Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 15:25:08
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

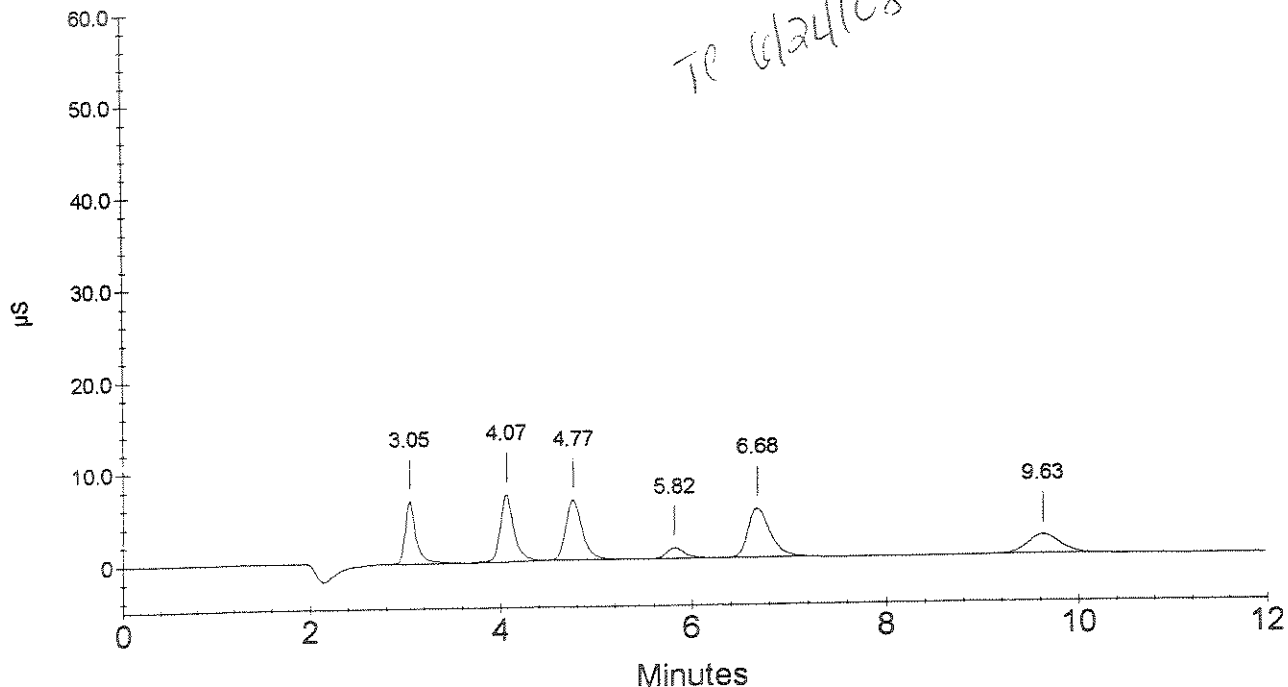
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 6

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.05	Fluoride	1.00	552422	552422.00
2	4.07	Chloride	2.00	726484	726483.50
3	4.77	Nitrite	1.00	765373	765373.00
4	5.82	Bromide	1.00	155388	155388.00
5	6.68	Nitrate	1.00	839066	839066.00
6	9.63	Sulfate	2.00	482251	482250.50

STANDARD 6



Ion Chromatography Calibration Report
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Sample Name : STANDARD 7
 Sample Type : Calibration Update
 Data File Name : ...\\0623_007.DXD
 Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 15:39:24
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

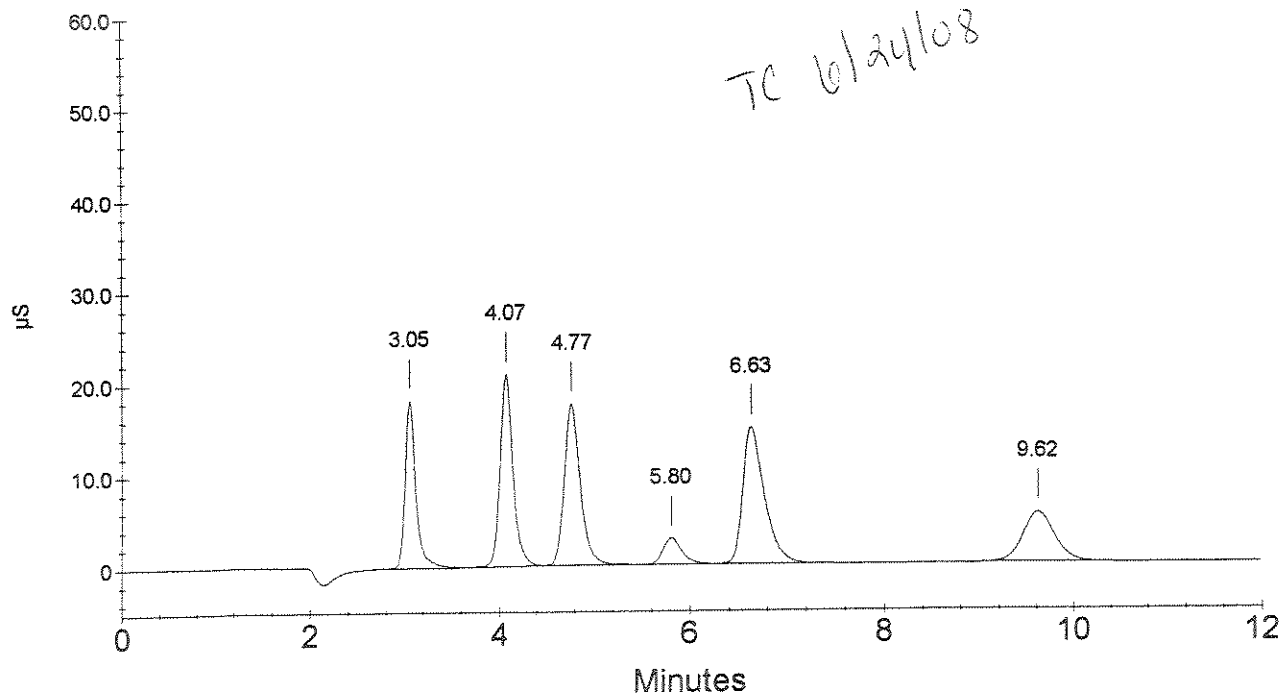
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 7

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.05	Fluoride	2.50	1467948	1467948.00
2	4.07	Chloride	5.00	1981112	1981111.50
3	4.77	Nitrite	2.50	2048245	2048245.00
4	5.80	Bromide	2.50	381974	381974.00
5	6.63	Nitrate	2.50	2301648	2301647.50
6	9.62	Sulfate	5.00	1268654	1268653.50

STANDARD 7



Ion Chromatography Calibration Report
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Sample Name : STANDARD 8
 Sample Type : Calibration Update
 Data File Name : ...\\0623_008.DXD
 Method File Name : ...\\20080623.met

Date Time Collected : 6/23/08 15:53:40
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : T. CHRIST

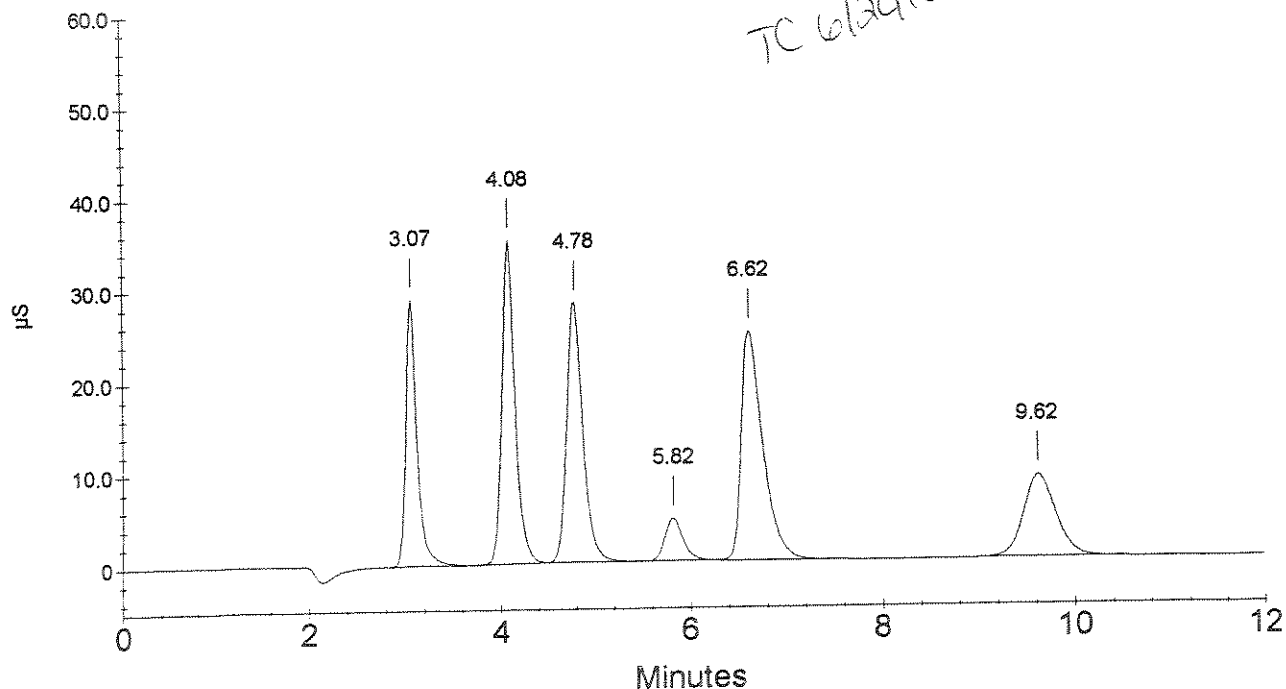
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 8

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.07	Fluoride	4.00	2334759	2334759.00
2	4.08	Chloride	8.00	3294251	3294251.00
3	4.78	Nitrite	4.00	3326781	3326780.50
4	5.82	Bromide	4.00	605052	605052.00
5	6.62	Nitrate	4.00	3859036	3859035.50
6	9.62	Sulfate	8.00	2057283	2057282.50

STANDARD 8



Ion Chromatography Calibration Report
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Sample Name : STANDARD 9
Sample Type : Calibration Update
Data File Name : ...\\0623_009.DXD
Method File Name : ...\\20080623.met

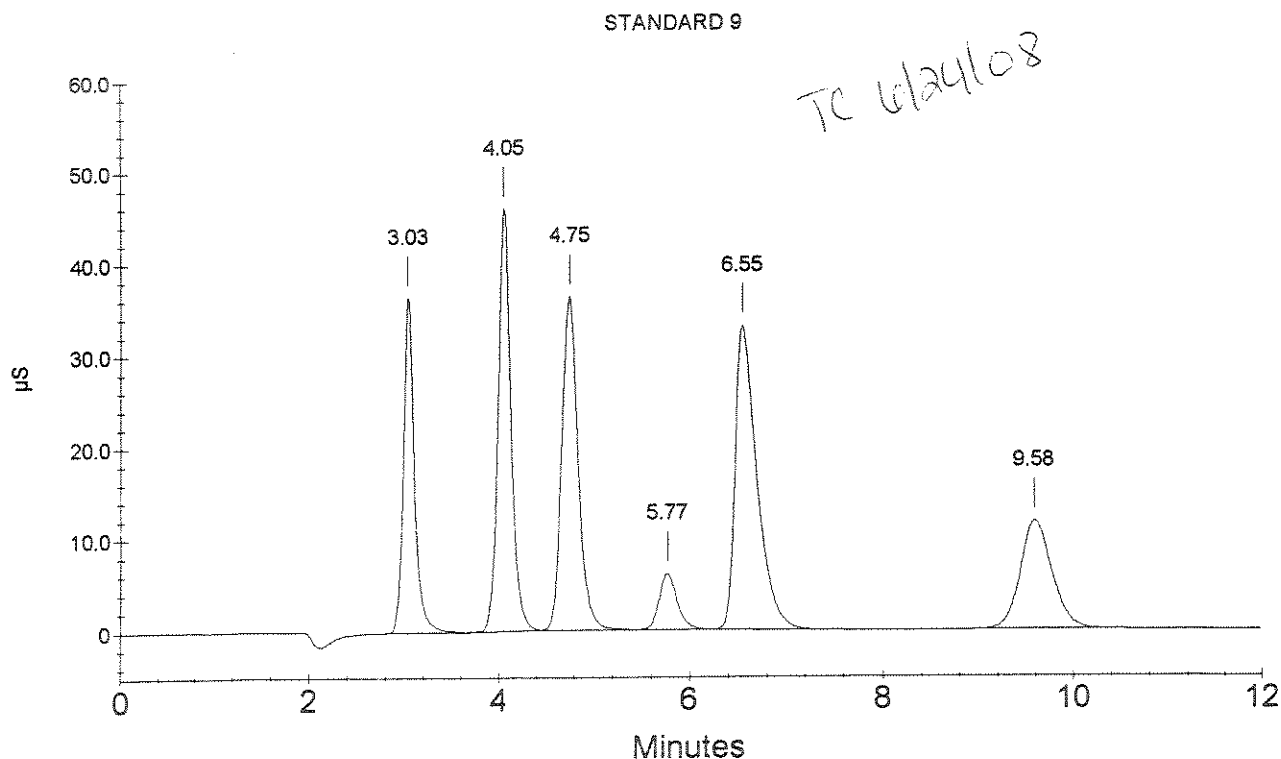
Date Time Collected : 6/23/08 16:07:57
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 9

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.03	Fluoride	5.00	2990431	2990431.00
2	4.05	Chloride	10.00	4333962	4333962.00
3	4.75	Nitrite	5.00	4309791	4309791.00
4	5.77	Bromide	5.00	780891	780891.00
5	6.55	Nitrate	5.00	5122564	5122564.00
6	9.58	Sulfate	10.00	2696907	2696907.00



Ion Chromatography Analytical Report
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Sample Name : ICV
 Data File Name : ...\\0623_010.DXD
 Method File Name : ...\\20080623.met
 Date Time Collected : 6/23/08 16:22:17

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 06.23.2008
 Method Analyst : T. CHRIST

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

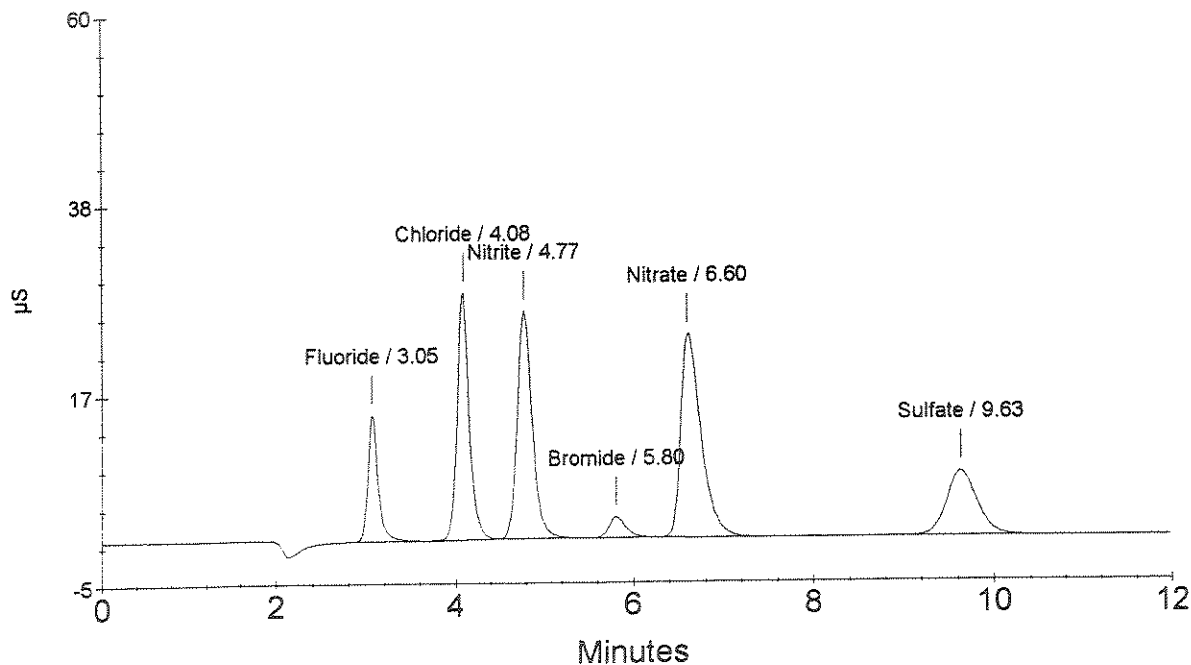
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.05	Fluoride	1.971	1153862
2	4.08	Chloride	6.356	2668144
3	4.77	Nitrite	3.595	3034218
4	5.80	Bromide	2.014	311470
5	6.60	Nitrate	3.634	3589277
6	9.63	Sulfate	6.484	1702522

OK
↓

TC 6/24/08

ICV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICB
Data File Name : ... \0623_011.DXD
Method File Name : ... \20080623.met
Date Time Collected : 6/23/08 16:36:33

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

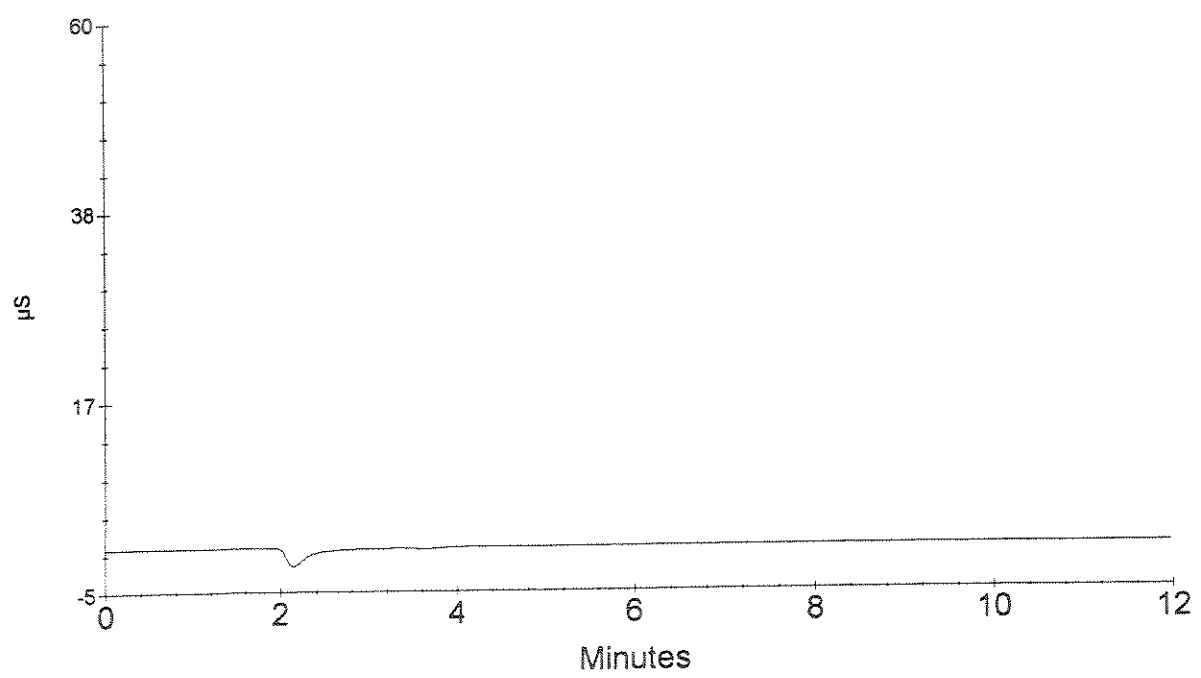
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK
↓
TC 6/24/08

ICB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\\0623_012.DXD
Method File Name : ...\\20080623.met
Date Time Collected : 6/23/08 16:50:50

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 06.23.2008
Method Analyst : T. CHRIST

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

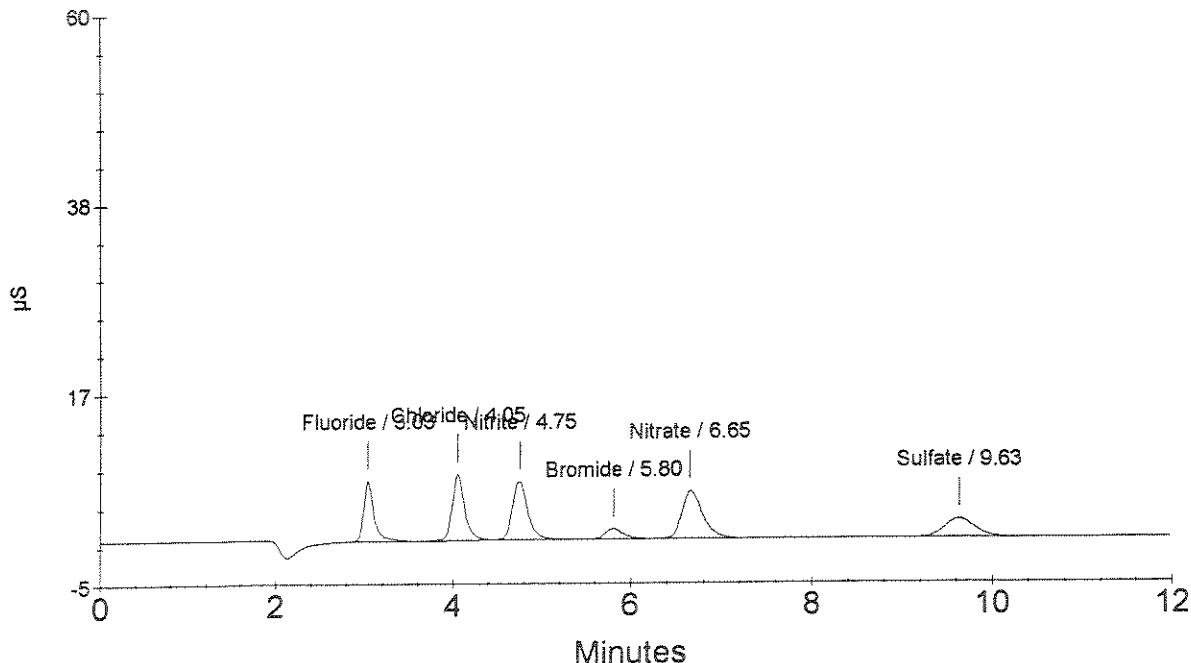
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.03	Fluoride	0.983	563988
2	4.05	Chloride	1.816	743056
3	4.75	Nitrite	0.949	771669
4	5.80	Bromide	1.011	157366
5	6.65	Nitrate	0.914	843913
6	9.63	Sulfate	1.899	484590

OK
↓

TC 6/24/08

LCS



Run #: 162719

Analyte: SULFATE 9056 SULFATE BY ION CHROMATOGRAPHY

Printed: 07/17/08 15:19

R44538
1 copy

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>		<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE</u>	<u>QC</u>	<u>PKG #</u>
				<u>RESULT</u>	<u>DILUTION</u>				<u>ANALYZED</u>		
ESMP	R2844538	1110532	WATER	1980	1000.0	0.200			06/26/08		ASPB
CHK5		1118591	WATER	6.43	1.0	0.200	100.5		06/26/08		
BLK4		1118592	WATER	0.200	1.0	0.200			06/26/08		
SPKB		1118593	WATER	1.93	1.0	0.200	96.3		06/26/08		

Records printed: 4

✓ 07/17/08

Run #: 163000

Analyte: SULFATE 9056 SULFATE BY ION CHROMATOGRAPHY

Printed: 06/27/08 14:09

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	1110981	WATER	2810	400.0	0.200			06/26/08	RUN	ASPB
CHK5		1112791	WATER	6.43	1.0	0.200	100.5		06/26/08		
BLK4		1112792	WATER	0.200 U	1.0	0.200			06/26/08		
SPKB		1112793	WATER	1.927 <i>so what?</i>	1.0	0.200	96.1		06/26/08		
ESMP	R2844538	1111264	WATER	2220	400.0	0.200			06/26/08	RUN	ASPB
ESMP	R2844538	1111265	WATER	2040	400.0	0.200			06/26/08	RUN	ASPB

Records printed: 6

Run #: 162999

Analyte: CHLORIDE 9056 CHLORIDE BY ION CHROMATOGRAPHY

Printed: 06/27/08 14:15

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED</u>			<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE</u>		<u>QC</u>	<u>PKG #</u>
				<u>RESULT</u>	<u>DILUTION</u>	<u>PQL</u>			<u>ANALYZED</u>	<u> </u>		
ESMP	R2844538	✓ 1110532	WATER	5250	1000.0	0.200			06/26/08			ASPB
CHK5		✓ 1112794	WATER	6.56	1.0	0.200	100.9		06/26/08			
BLK4		✓ 1112795	WATER	0.200	U	1.0	0.200		06/26/08			
SPKB		✓ 1112796	WATER	1.92		1.0	0.200	96.1	06/26/08			
ESMP	R2844538	✓ 1110981	WATER	6610	4000.0	0.200			06/26/08	RUN		ASPB
ESMP	R2844538	✓ 1111264	WATER	2210	400.0	0.200			06/26/08	RUN		ASPB

Records printed: 6

6/26/08

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 ANALYST: PC	
Columbia-no dilution, CCB		2	1.0	1.0	1.0	100.0		0	1	1 PIPETTES: LUVY, MINE	
Columbia-no dilution, LCS		3	1.0	1.0	1.0	100.0		0	1		
Columbia-no dilution, 110468 R-44561		4	1.0	100.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110959 R-44605		5	1.0	40.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110960		6	1.0	400.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110961		7	1.0	10.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110962		8	1.0	20.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110963		9	1.0	100.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110964		10	1.0	200.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110966		11	1.0	20.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110967		12	1.0	20.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110967 DUP		13	1.0	20.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110967 SPK		14	1.0	20.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 111245		15	1.0	200.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, CCV		16	1.0	1.0	1.0	100.0		0	1	1	
Columbia-no dilution, CCB		17	1.0	1.0	1.0	100.0		0	1	1	
Columbia-no dilution, 111246		18	1.0	1000.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 111247		19	1.0	10.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 111248		20	1.0	200.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 111249		21	1.0	400.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 111250		22	1.0	100.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 111250 DUP		23	1.0	100.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 111250 SPK		24	1.0	100.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110532 R-44538		25	1.0	1000.0	1.0	100.0		0	1	1 C	
Columbia-no dilution, 110981		26	1.0	400.0	1.0	100.0		0	1	1 S	
Columbia-no dilution, 110981		27	1.0	400.0	1.0	100.0		0	1	1 C	
Columbia-no dilution, 111264		28	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, 111265		29	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, CCV		30	1.0	1.0	1.0	100.0		0	1	1	
Columbia-no dilution, CCB		31	1.0	1.0	1.0	100.0		0	1	1	
Columbia-no dilution, LCS		32	1.0	1.0	1.0	100.0		0	1	1	
Columbia-no dilution, 111266		33	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, 111267		34	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, 111267 DUP		35	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, 111267 SPK		36	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, 111763		37	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, 111764		38	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, 111765		39	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, 112065 R-44650		40	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, 112066		41	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, 112066 DUP		42	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, 112066 SPK		43	1.0	400.0	1.0	100.0		0	1	1 CS	
Columbia-no dilution, CCV		44	1.0	1.0	1.0	100.0		0	1	1	
Columbia-no dilution, CCB		45	1.0	1.0	1.0	100.0		0	1	1	

WORKSHEET updated

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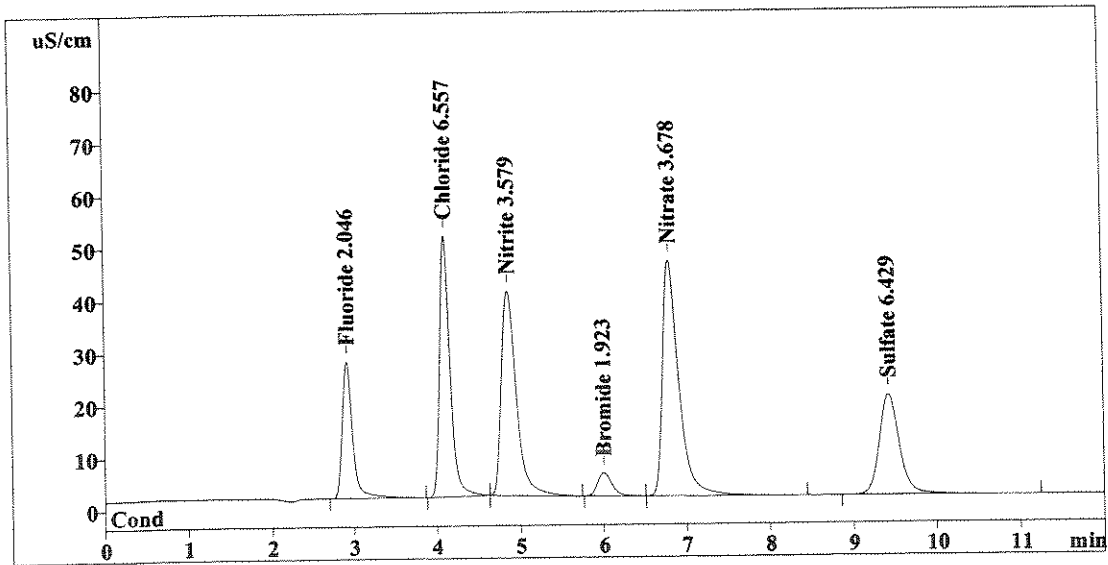
Method 300.0/9056

Report date: 6/26/2008 10:14:07
 Printed by: User
 Ident: CCV
 Analysis from: 6/26/2008 10:02:09
 File: S6261002.CHW

Last save: 6/26/2008 10:14:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37526
 SAMPLE: ANALYST: TC
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	228.193	2.046	Fluoride
2	4.10	427.385	6.557	Chloride
3	4.86	487.056	3.579	Nitrite
4	6.00	53.691	1.923	Bromide
5	6.80	609.046	3.678	Nitrate
6	9.43	319.929	6.429	Sulfate
<hr/>				
6	12.00	2125.300	24.212	

OK
↓

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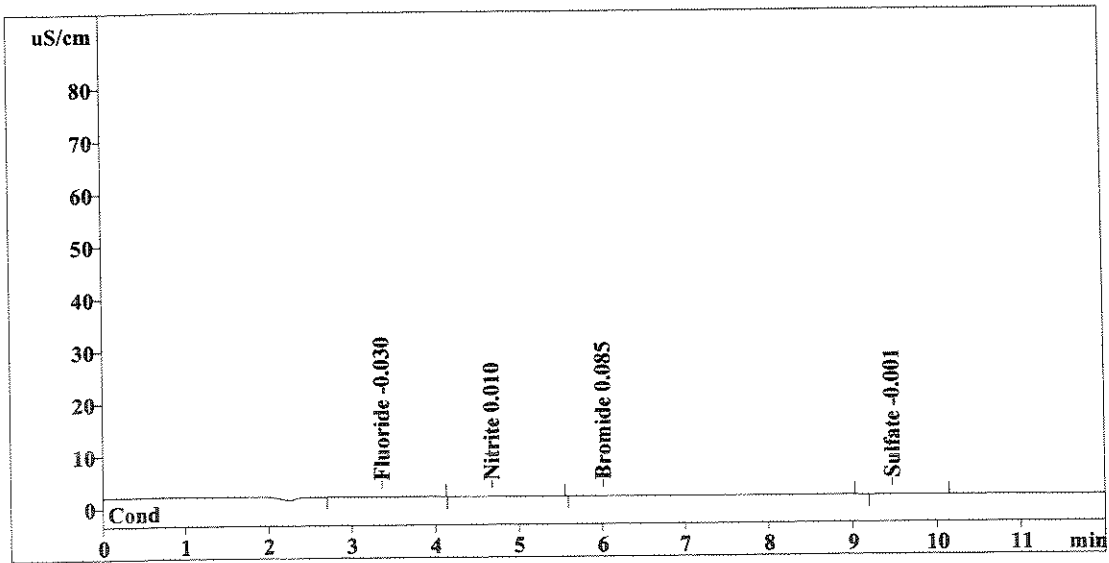
Method 300.0/9056

Report date: 6/26/2008 10:28:13
 Printed by: User
 Ident: CCB
 Analysis from: 6/26/2008 10:16:15
 File: S6261016.CHW

Last save: 6/26/2008 10:28:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37527
 SAMPLE: PIPETTES: LUVY, MINE
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	2.214	-0.030	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.70	2.084	0.010	Nitrite
4	6.01	1.734	0.085	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	1.004	-0.001	Sulfate
<hr/>			0.127	
6	12.00	7.036		

OK
↓

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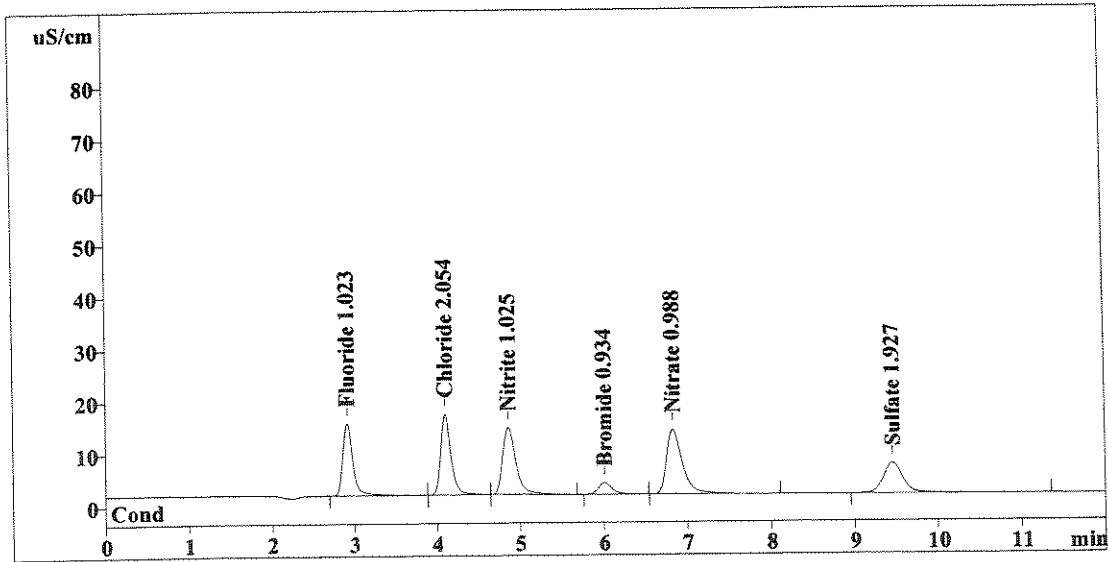
Method 300.0/9056

Report date: 6/26/2008 10:42:19
 Printed by: User
 Ident: LCS
 Analysis from: 6/26/2008 10:30:21
 File: S6261030.CHW

Last save: 6/26/2008 10:42:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37528
 SAMPLE:
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	116.856	1.023	Fluoride
2	4.10	132.847	2.054	Chloride
3	4.86	139.957	1.025	Nitrite
4	6.01	25.738	0.934	Bromide
5	6.83	161.596	0.988	Nitrate
6	9.46	96.653	1.927	Sulfate
6	12.00	673.647	7.951	

OK
↓

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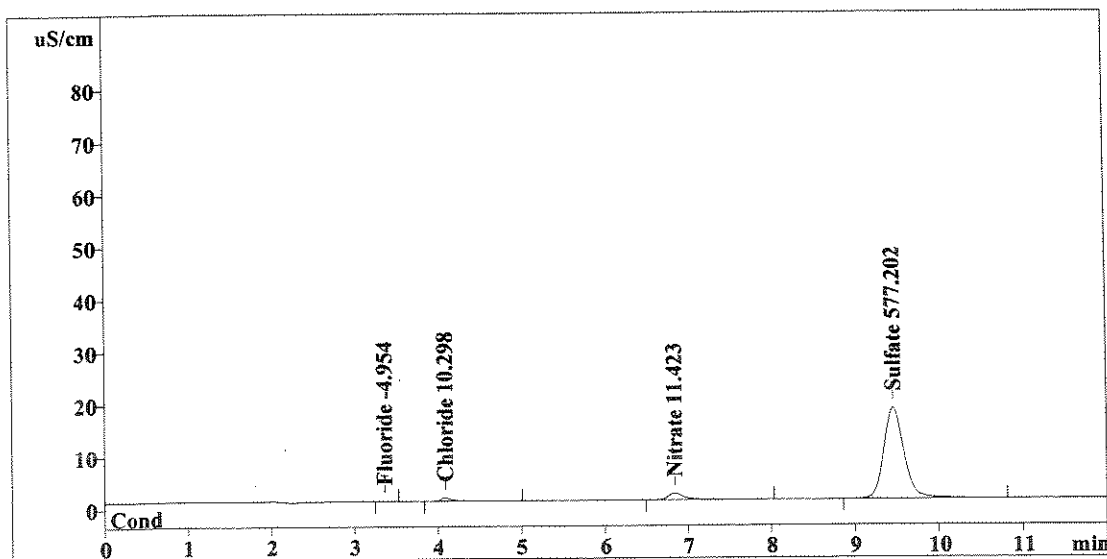
Method 300.0/9056

Report date: 6/26/2008 11:37:57
 Printed by: User
 Ident: 1110468 R-44561
 Analysis from: 6/26/2008 11:25:59
 File: S6261125.CHW

Last save: 6/26/2008 11:37:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37529
 SAMPLE: S
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.072	-4.954	Fluoride
2	4.09	5.214	10.298	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.84	16.270	11.423	Nitrate
6	9.46	287.358	577.202	Sulfate
<hr/>				
6	12.00	308.915	603.877	

OK

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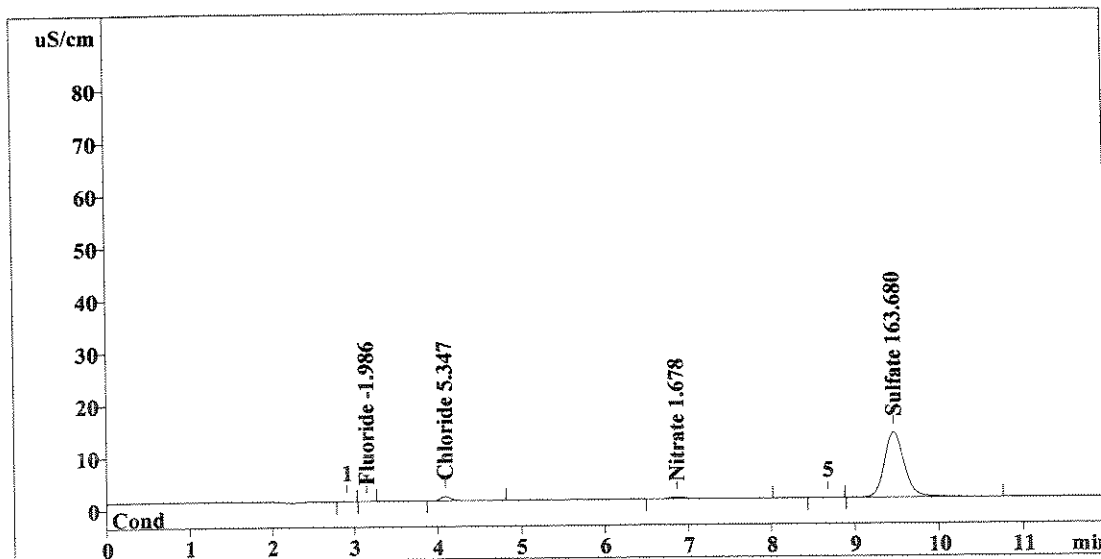
Method 300.0/9056

Report date: 6/26/2008 11:52:03
 Printed by: User
 Ident: 1110959 R-44605
 Analysis from: 6/26/2008 11:40:05
 File: S6261140.CHW

Last save: 6/26/2008 11:52:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37530
 SAMPLE: S
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.15	0.058	-1.986	Fluoride
2	4.09	7.222	5.347	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.86	4.247	1.678	Nitrate
6	9.47	204.030	163.680	Sulfate
<hr/>				
6	12.00	215.556	172.690	

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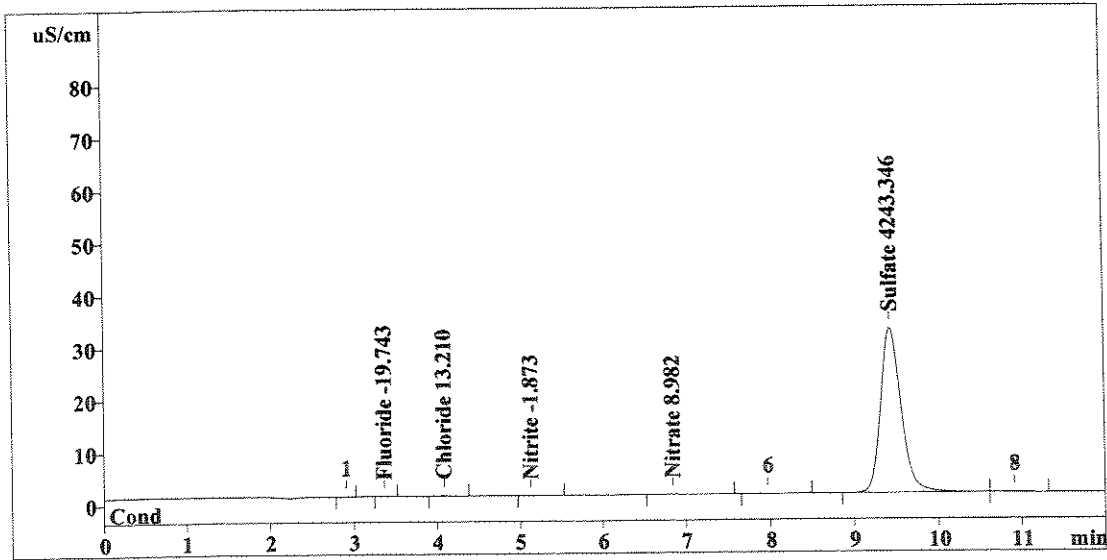
Te 6/27/08

Report date: 6/26/2008 12:06:09
 Printed by: User
 Ident: 1110960
 Analysis from: 6/26/2008 11:54:11
 File: S6261154.CHW

Last save: 6/26/2008 12:06:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37531
 SAMPLE: S
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.091	-19.743	Fluoride
2	4.08	0.639	13.210	Chloride
3	5.12	0.089	-1.873	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.84	1.006	8.982	Nitrate
6	9.44	527.238	^{1/1000} 4243.346	Sulfate
6	12.00	529.062	4287.155	

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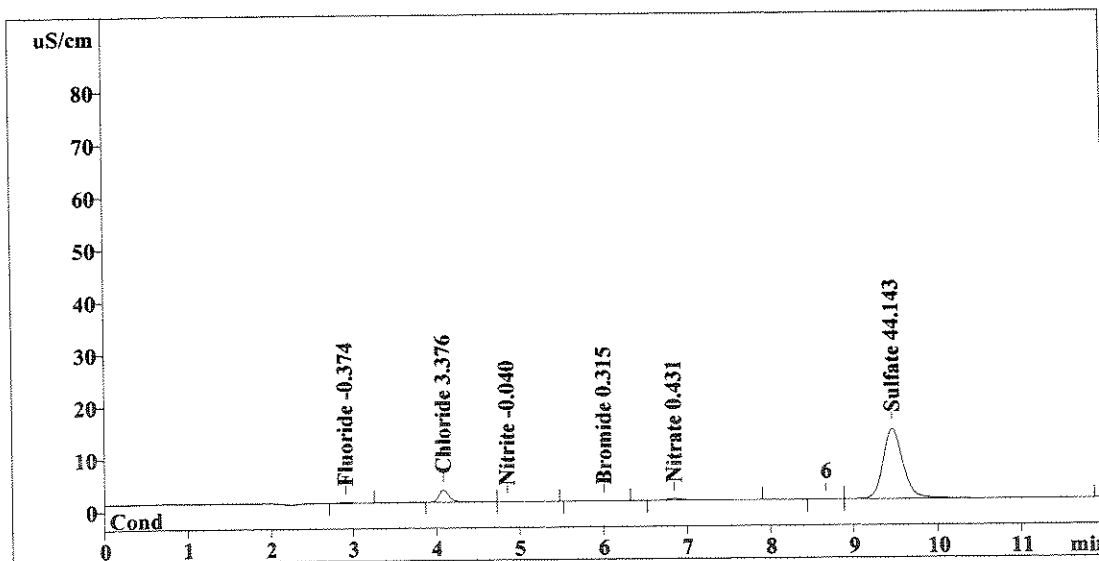
Method 300.0/9056

Report date: 6/26/2008 12:20:15
 Printed by: User
 Ident: 1110961
 Analysis from: 6/26/2008 12:08:17
 File: S6261208.CHW

Last save: 6/26/2008 12:20:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37532
 SAMPLE: S
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	1.389	-0.374	Fluoride
2	4.09	20.559	3.376	Chloride
3	4.85	0.178	-0.040	Nitrite
4	6.00	0.214	0.315	Bromide
5	6.85	4.443	0.431	Nitrate
6	9.47	220.015	OK 44.143	Sulfate
<hr/>				
6	12.00	246.797	48.680	

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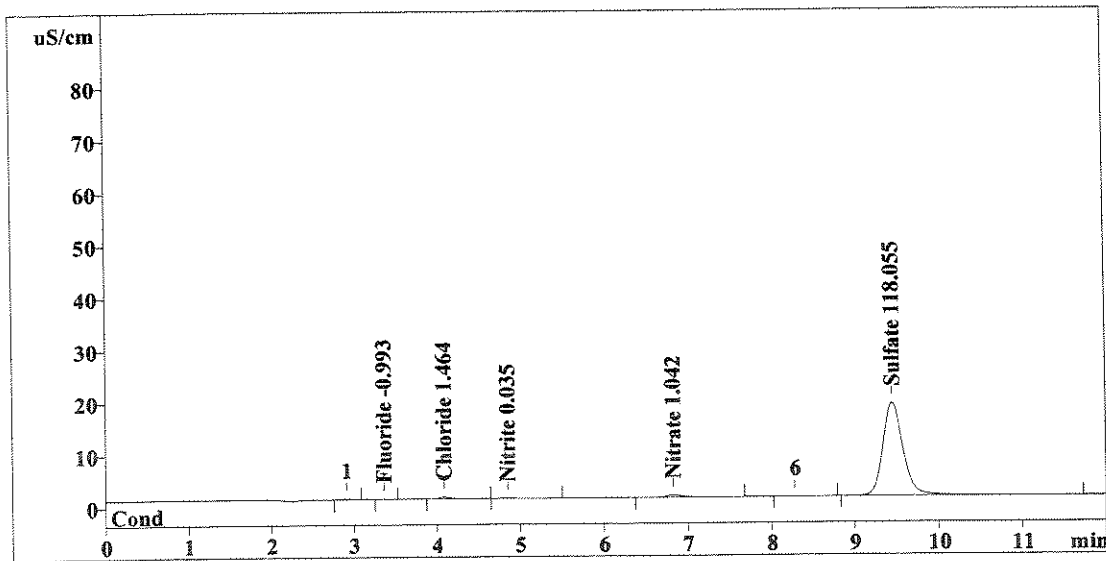
Method 300.0/9056

Report date: 6/26/2008 12:34:21
 Printed by: User
 Ident: 1110962
 Analysis from: 6/26/2008 12:22:23
 File: S6261222.CHW

Last save: 6/26/2008 12:34:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37533
 SAMPLE: S
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.058	-0.993	Fluoride
2	4.09	3.267	1.464	Chloride
3	4.84	0.963	0.035	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.82	5.937	1.042	Nitrate
6	9.46	293.842	OK 118.055	Sulfate
6	12.00	304.067	121.589	

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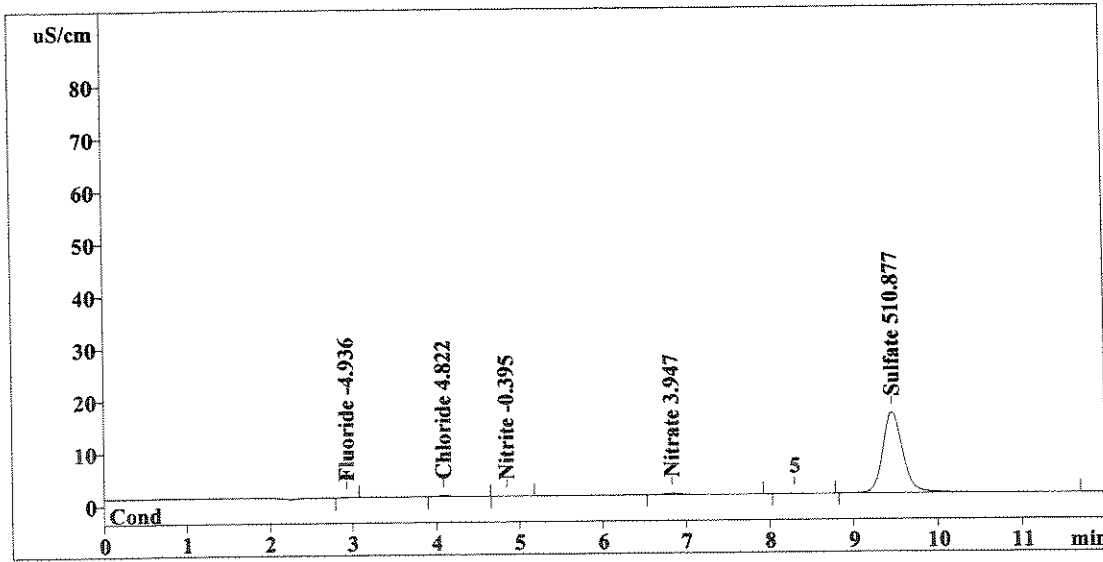
Method 300.0/9056

Report date: 6/26/2008 12:48:27
 Printed by: User
 Ident: 1110963
 Analysis from: 6/26/2008 12:36:29
 File: S6261236.CHW

Last save: 6/26/2008 12:48:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37534
 SAMPLE: S
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.091	-4.936	Fluoride
2	4.09	1.633	4.822	Chloride
3	4.84	0.189	-0.395	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.83	3.835	3.947	Nitrate
6	9.46	254.461	510.877	Sulfate
6	12.00	260.209	524.977	

Handwritten notes:
 - OK
 - RPT 1/100
 - TC 6127108
 - required GC

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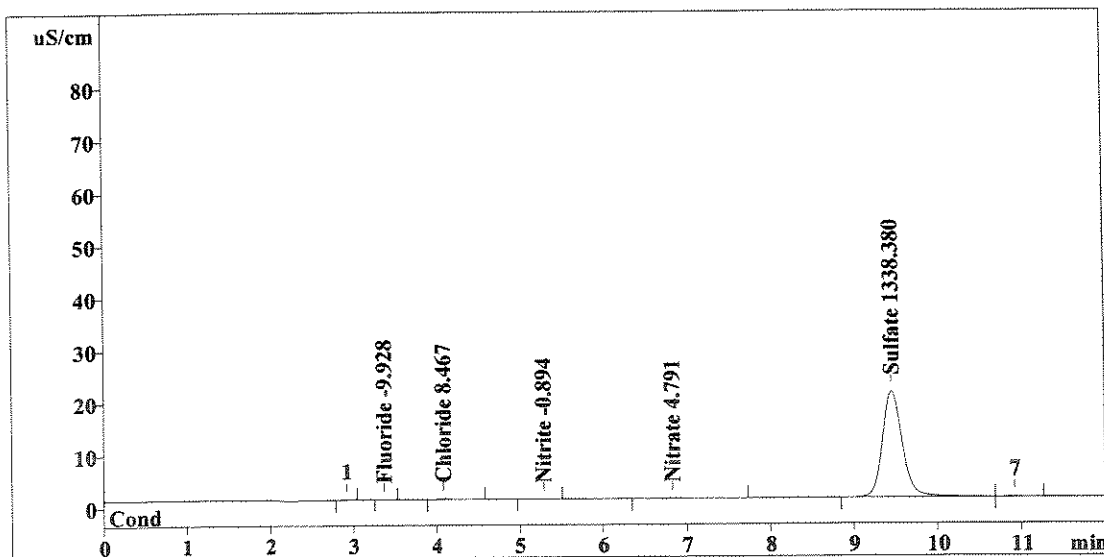
Method 300.0/9056

Report date: 6/26/2008 13:02:33
 Printed by: User
 Ident: 1110964
 Analysis from: 6/26/2008 12:50:34
 File: S6261250.CHW

Last save: 6/26/2008 13:02:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37535
 SAMPLE: S
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 200.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.061	-9.928	Fluoride
2	4.08	1.247	8.467	Chloride
3	5.29	0.117	-0.894	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.83	1.255	4.791	Nitrate
6	9.46	332.984	OK 1338.380	Sulfate
6	12.00	335.664	1362.460	

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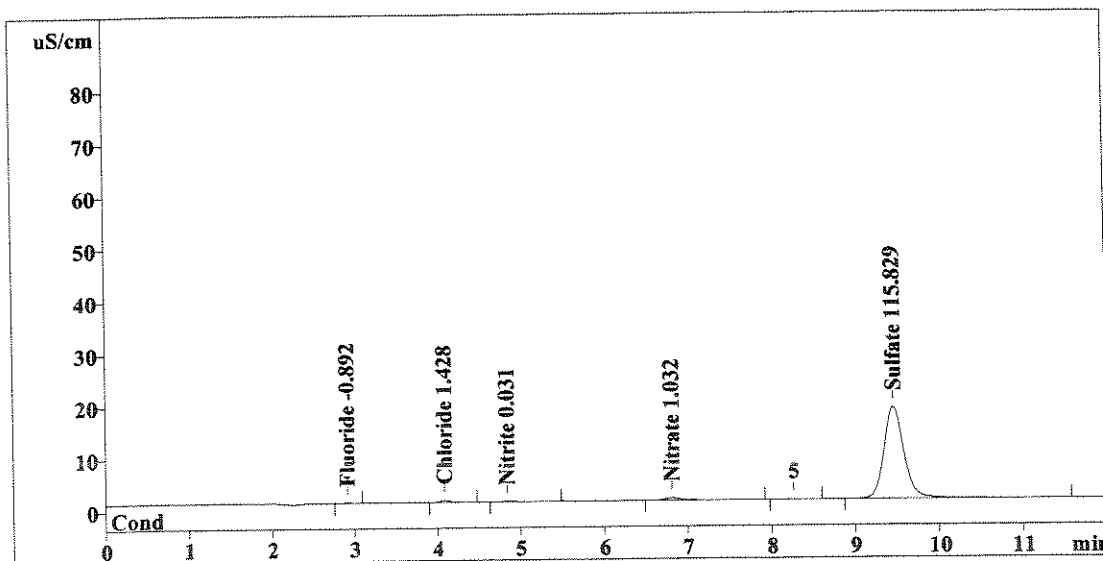
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Report date: 6/26/2008 13:16:38
 Printed by: User
 Ident: 1110966
 Analysis from: 6/26/2008 13:04:40
 File: S6261304.CHW

Last save: 6/26/2008 13:16:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37536
 SAMPLE: S
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.612	-0.892	Fluoride
2	4.08	3.150	1.428	Chloride
3	4.84	0.932	0.031	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.81	5.852	1.032	Nitrate
6	9.46	288.321	OK 115.829	Sulfate
6	12.00	298.867	119.211	

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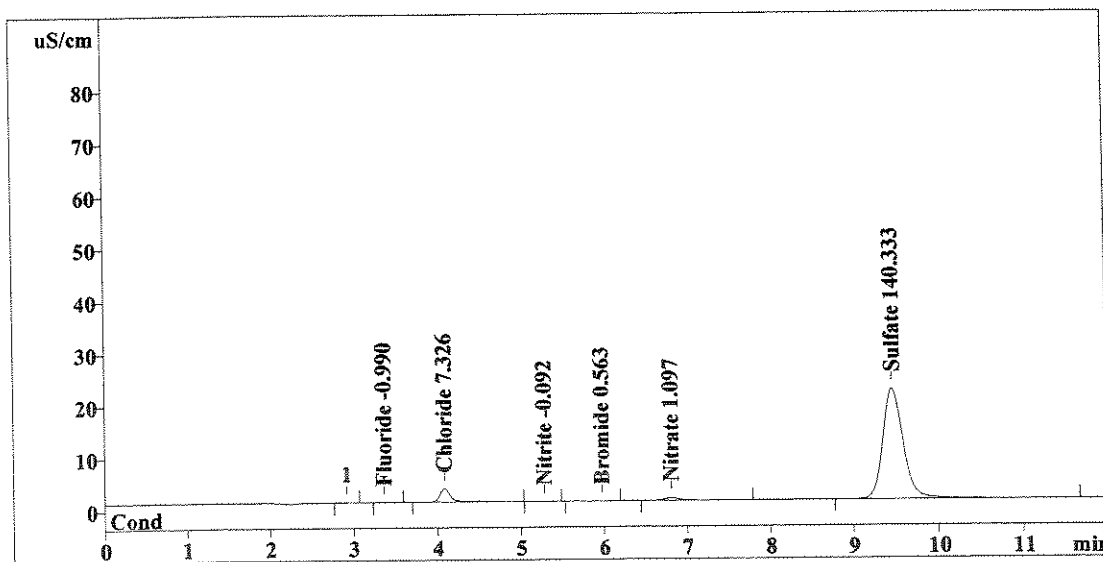
Method 300.0/9056

Report date: 6/26/2008 13:30:44
 Printed by: User
 Ident: 1110967
 Analysis from: 6/26/2008 13:18:46
 File: S6261318.CHW

Last save: 6/26/2008 13:30:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37537
 SAMPLE: S
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.077	-0.990	Fluoride
2	4.08	22.438	7.326	Chloride
3	5.28	0.097	-0.092	Nitrite
4	5.97	0.118	0.563	Bromide
5	6.81	6.391	1.097	Nitrate
6	9.46	349.091	OK 140.333	Sulfate
6	12.00	378.212	150.401	

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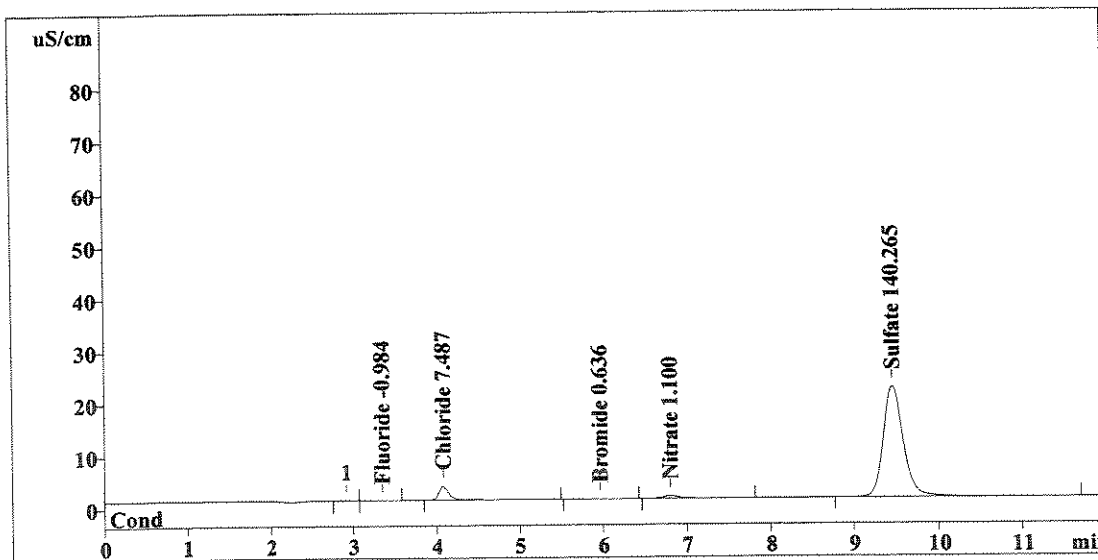
Method 300.0/9056

Report date: 6/26/2008 13:44:50
 Printed by: User
 Ident: 1110967 DUP
 Analysis from: 6/26/2008 13:32:52
 File: S6261332.CHW

Last save: 6/26/2008 13:44:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37538
 SAMPLE: S
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.110	-0.984	Fluoride
2	4.08	22.963	7.487	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.221	0.636	Bromide
5	6.80	6.415	1.100	Nitrate
6	9.47	348.922	140.265	Sulfate
6	12.00	378.631	150.471	

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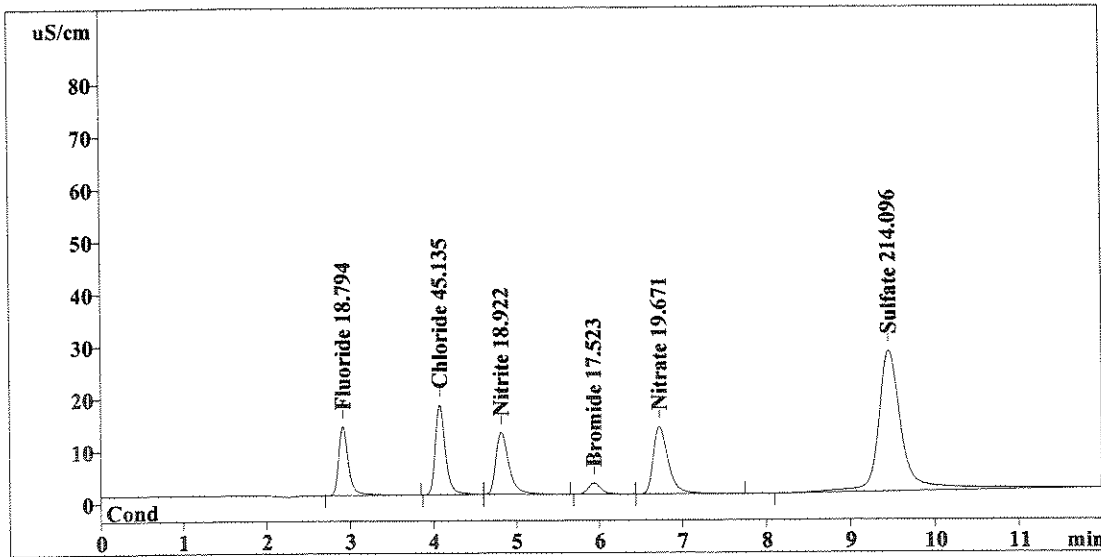
Method 300.0/9056

Report date: 6/26/2008 13:58:56
 Printed by: User
 Ident: 1110967 SPK
 Analysis from: 6/26/2008 13:46:58
 File: S6261346.CHW

Last save: 6/26/2008 13:58:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37539
 SAMPLE: S
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	107.785	18.794	Fluoride
2	4.08	146.092	45.135	Chloride
3	4.82	129.274	18.922	Nitrite
4	5.94	24.092	17.523	Bromide
5	6.73	160.857	19.671	Nitrate
6	9.47	532.020	214.096	Sulfate
<hr/>				
6	12.00	1100.120	334.141	

Reprocess tails

*140.333 / 40 * 100*

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To 6/27/08

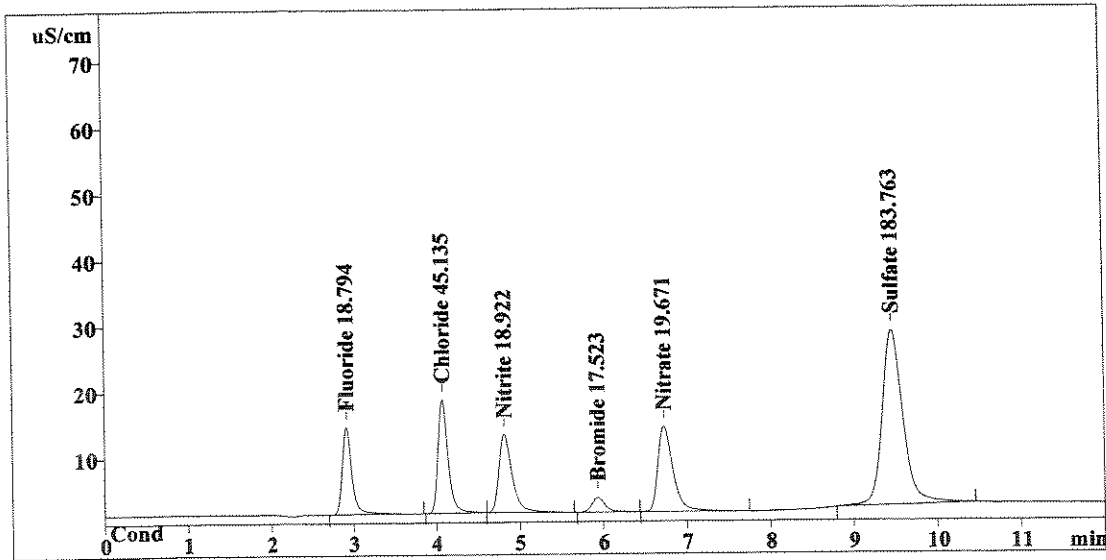
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Method 300.0/9056

Report date: 6/27/2008 08:38:54
 Printed by: User
 Ident: 1110967 SPK
 Analysis from: 6/26/2008 13:46:58
 File: s6261346.chw
 Modified! Manual peaks!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37539
 SAMPLE: S
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 6/26/2008 13:58:56

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	107.785	18.794	Fluoride
2	4.08	146.092	45.135	Chloride
3	4.82	129.274	18.922	Nitrite
4	5.94	24.092	17.523	Bromide
5	6.73	160.857	19.671	Nitrate
6	9.47	456.795	183.763	Sulfate
<hr/>			303.808	
6	12.00	1024.896		

Reprocessed

OK 183.763
 $\frac{140.333}{40} \times 100 = 108.16\%$

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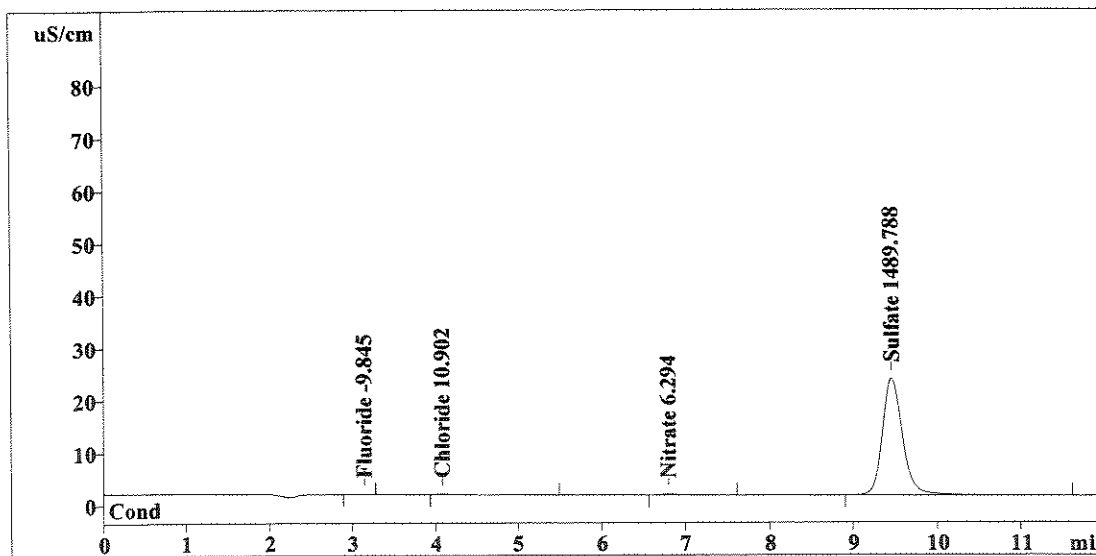
SD 6/29/08

Report date: 6/26/2008 14:13:02
 Printed by: User
 Ident: 1111245
 Analysis from: 6/26/2008 14:01:04
 File: S6261401.CHW

Last save: 6/26/2008 14:13:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37540
 SAMPLE: S
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 200.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.14	0.106	-9.845	Fluoride
2	4.08	2.044	10.902	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.80	2.505	6.294	Nitrate
6	9.47	370.532	OK 1489.788	Sulfate
6	12.00	375.187	1516.829	

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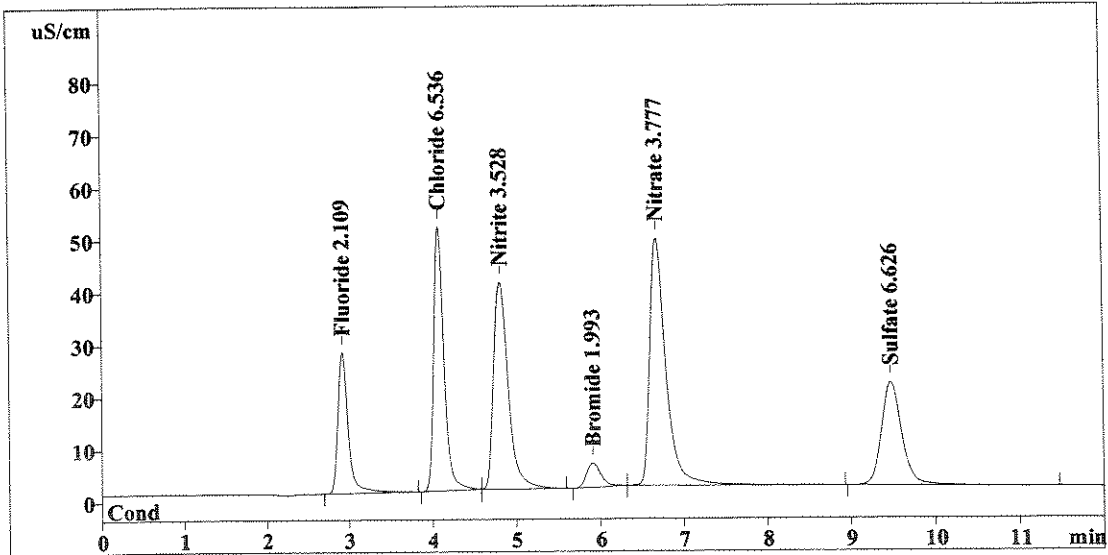
Method 300.0/9056

Report date: 6/26/2008 14:27:08
 Printed by: User
 Ident: CCV
 Analysis from: 6/26/2008 14:15:10
 File: S6261415.CHW

Last save: 6/26/2008 14:27:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37541
 SAMPLE:
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	235.130	2.109	Fluoride
2	4.08	425.979	6.536	Chloride
3	4.81	480.131	3.528	Nitrite
4	5.91	55.676	1.993	Bromide
5	6.68	625.471	3.777	Nitrate
6	9.48	329.711	6.626	Sulfate
<hr/>				
6	12.00	2152.098	24.570	

OK
↓

TC 6/27/08

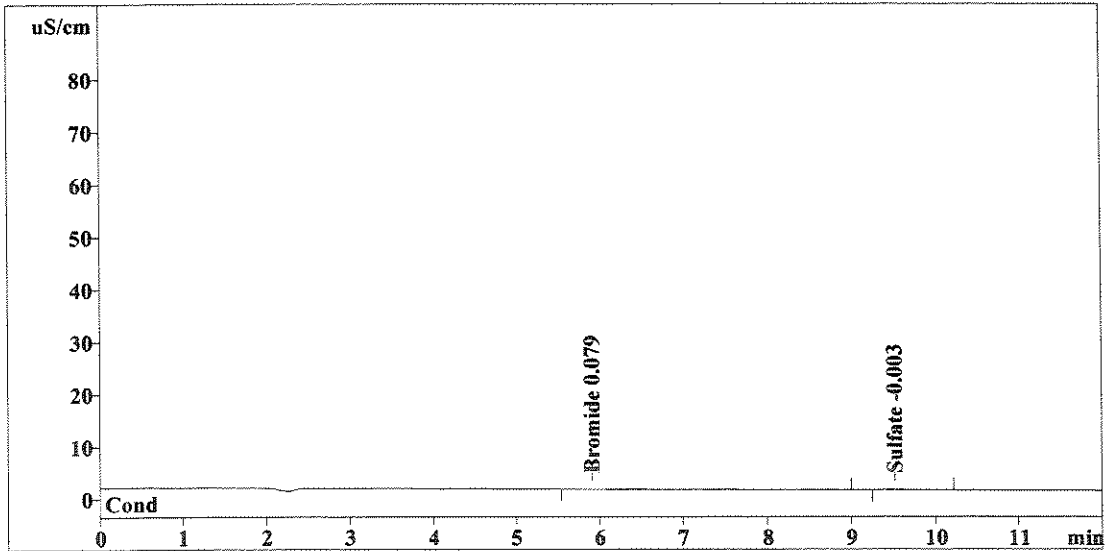
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Report date: 6/26/2008 14:41:14
 Printed by: User
 Ident: CCB
 Analysis from: 6/26/2008 14:29:16
 File: S6261429.CHW

Last save: 6/26/2008 14:41:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37542
 SAMPLE:
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



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	5.91	1.567	0.079	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.52	0.921	-0.003	Sulfate
6	12.00	2.489	0.082	

OK
↓

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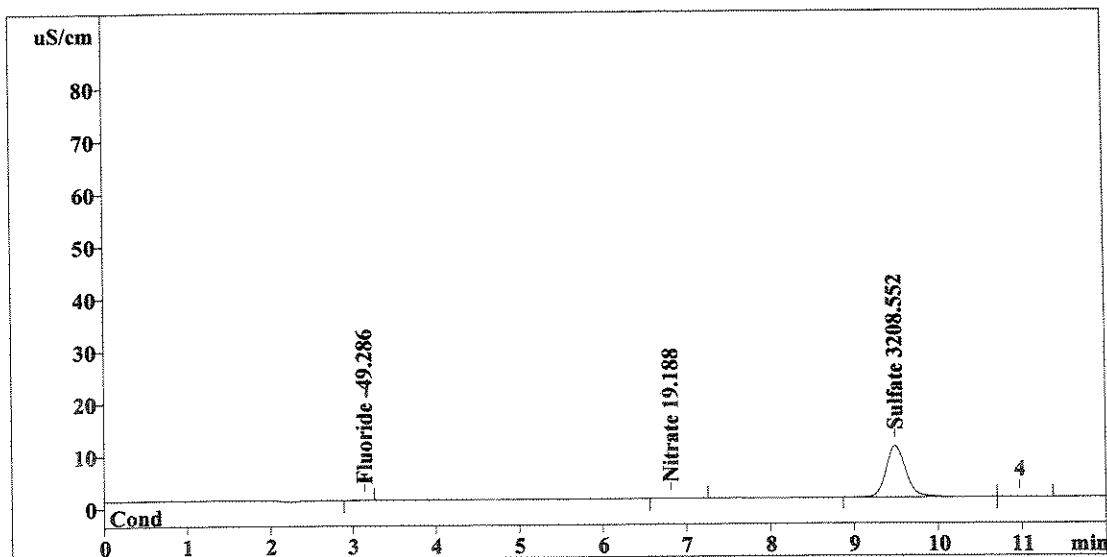
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/26/2008 14:55:20
 Printed by: User
 Ident: 1111246
 Analysis from: 6/26/2008 14:43:22
 File: S6261443.CHW

Method 300.0/9056

Last save: 6/26/2008 14:55:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37543
 SAMPLE: S
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.13	0.099	-49.286	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	6.81	0.462	19.188	Nitrate
6	9.50	160.212	OK 3208.552	Sulfate
6	12.00	160.773	3277.026	

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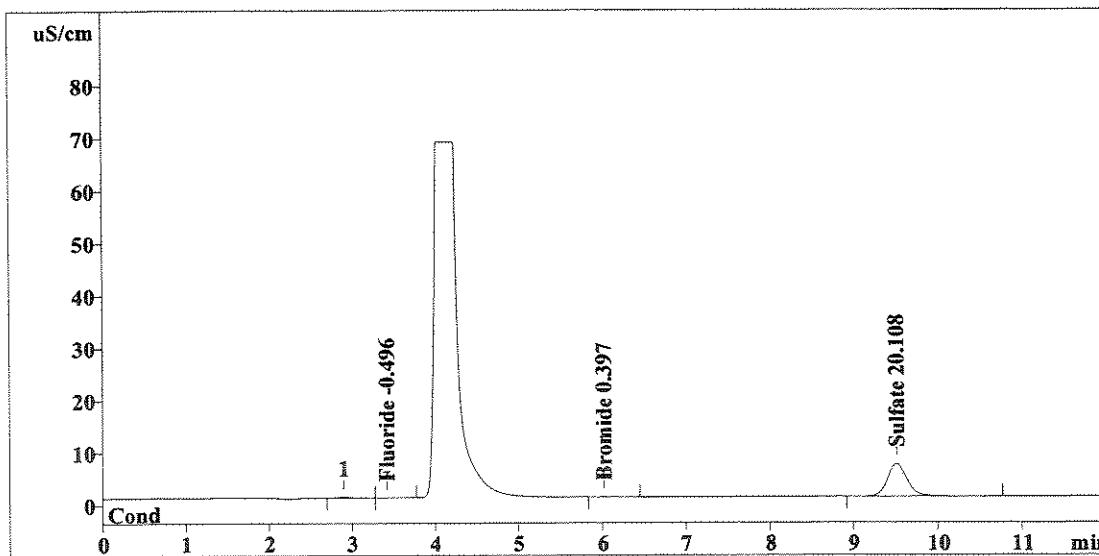
Method 300.0/9056

Report date: 6/26/2008 15:09:26
 Printed by: User
 Ident: 1111247
 Analysis from: 6/26/2008 14:57:28
 File: S6261457.CHW

Last save: 6/26/2008 15:09:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37544
 SAMPLE: S
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.43	0.062	-0.496	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.02	0.444	0.397	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.51	100.806	OK 20.108	Sulfate
6	12.00	101.313	21.002	

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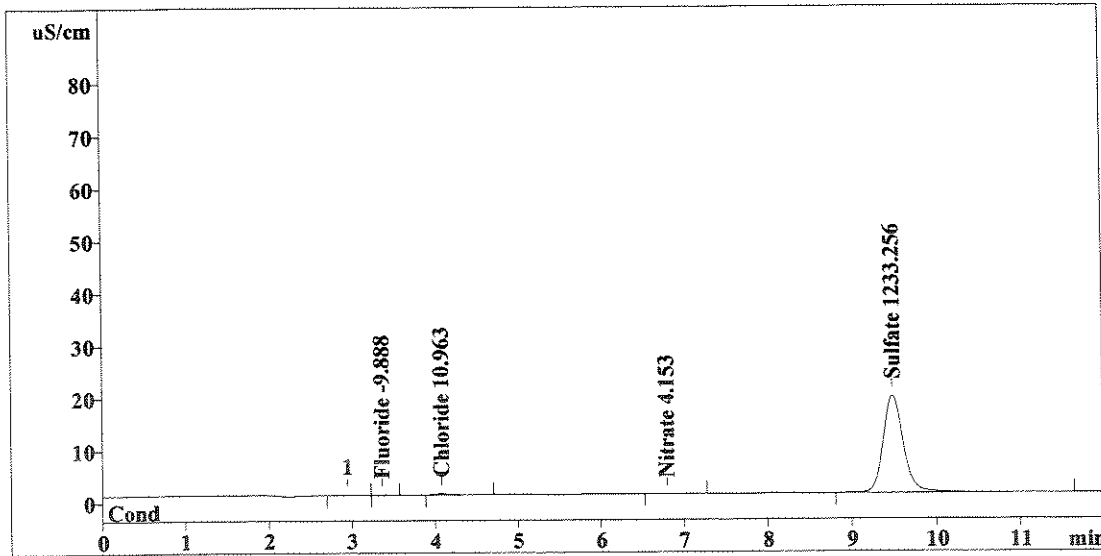
Method 300.0/9056

Report date: 6/26/2008 15:23:32
 Printed by: User
 Ident: 1111248
 Analysis from: 6/26/2008 15:11:33
 File: S6261511.CHW

Last save: 6/26/2008 15:23:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37545
 SAMPLE: S
 Vial number: 20
 Volume: 1.0 µL
 Dilution: 200.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.083	-9.888	Fluoride
2	4.08	2.064	10.963	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.80	0.724	4.153	Nitrate
6	9.49	306.913	OK 1233.256	Sulfate
6	12.00	309.784	1258.260	

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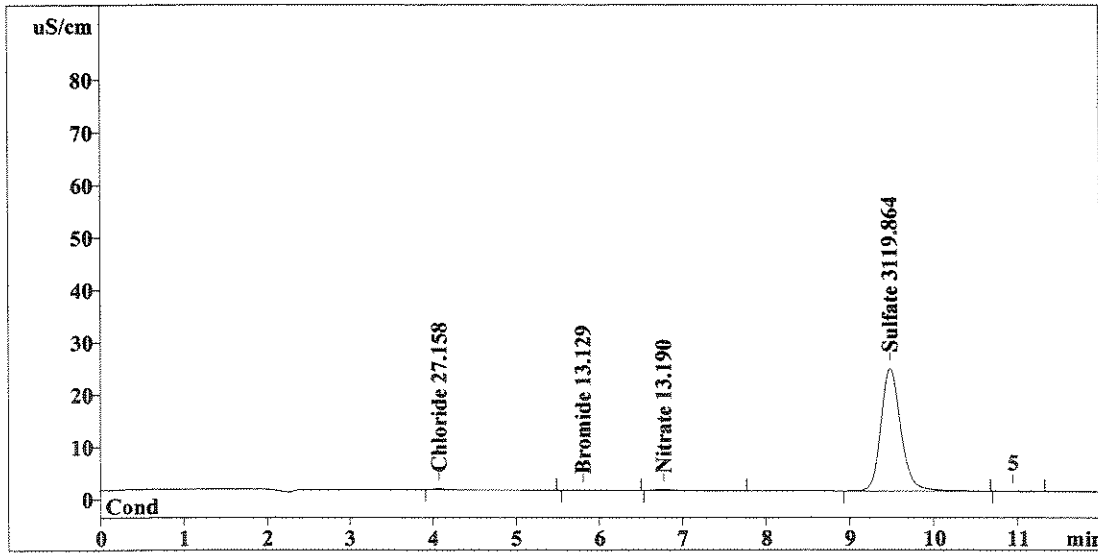
TC 6/27/08

Report date: 6/26/2008 15:37:38
 Printed by: User
 Ident: 1111249
 Analysis from: 6/26/2008 15:25:39
 File: S6261525.CHW

Last save: 6/26/2008 15:37:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37546
 SAMPLE: S
 Vial number: 21
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



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	2.919	27.158	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.82	0.250	13.129	Bromide
5	6.78	2.756	13.190	Nitrate
6	9.49	387.928	OK 3119.864	Sulfate
6	12.00	393.852	3173.341	

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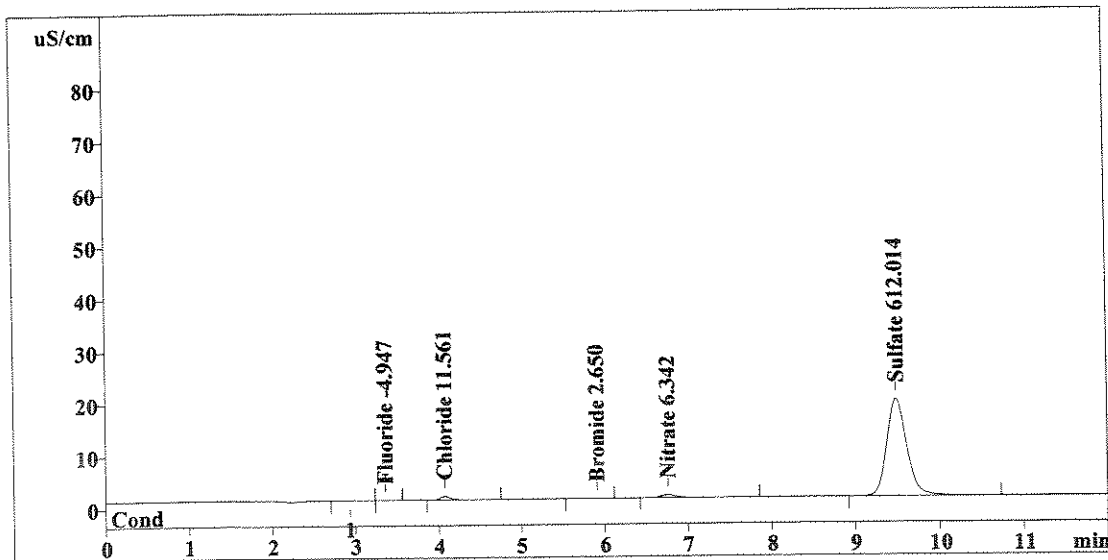
Method 300.0/9056

Report date: 6/26/2008 15:51:43
 Printed by: User
 Ident: 1111250
 Analysis from: 6/26/2008 15:39:45
 File: S6261539.CHW

Last save: 6/26/2008 15:51:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37547
 SAMPLE: S
 Vial number: 22
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.079	-4.947	Fluoride
2	4.07	6.040	11.561	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	0.071	2.650	Bromide
5	6.76	7.819	6.342	Nitrate
6	9.49	304.625	612.014	Sulfate
<hr/>				
6	12.00	318.634	637.514	

OK

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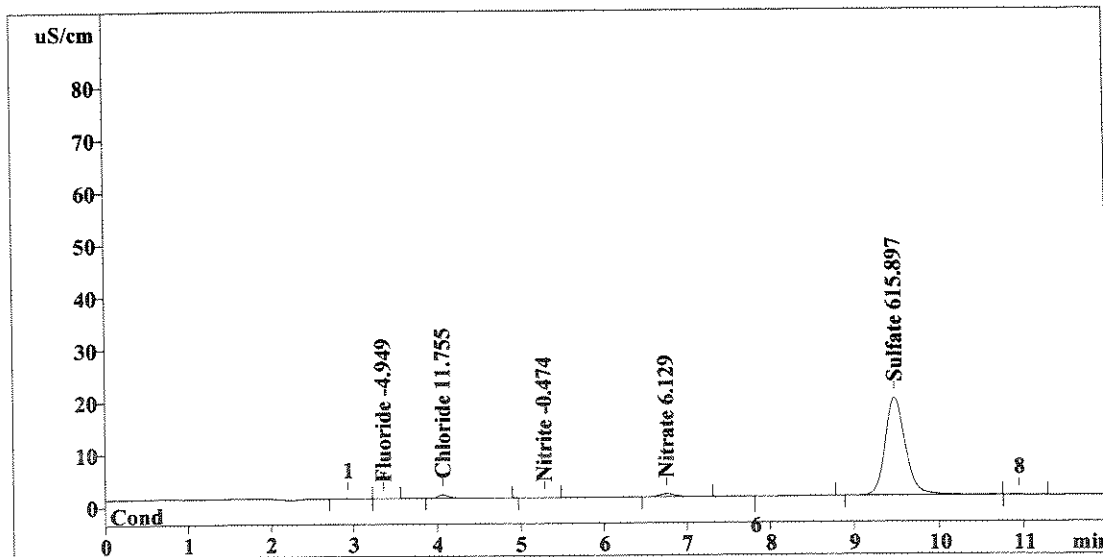
Method 300.0/9056

Report date: 6/26/2008 16:05:49
 Printed by: User
 Ident: 1111250 DUP
 Analysis from: 6/26/2008 15:53:51
 File: S6261553.CHW

Last save: 6/26/2008 16:05:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37548
 SAMPLE: S
 Vial number: 23
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.077	-4.949	Fluoride
2	4.07	6.167	11.755	Chloride
3	5.28	0.082	-0.474	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.76	7.465	6.129	Nitrate
6	9.48	306.551	615.897	Sulfate
<hr/>				
6	12.00	320.342	639.204	

OK

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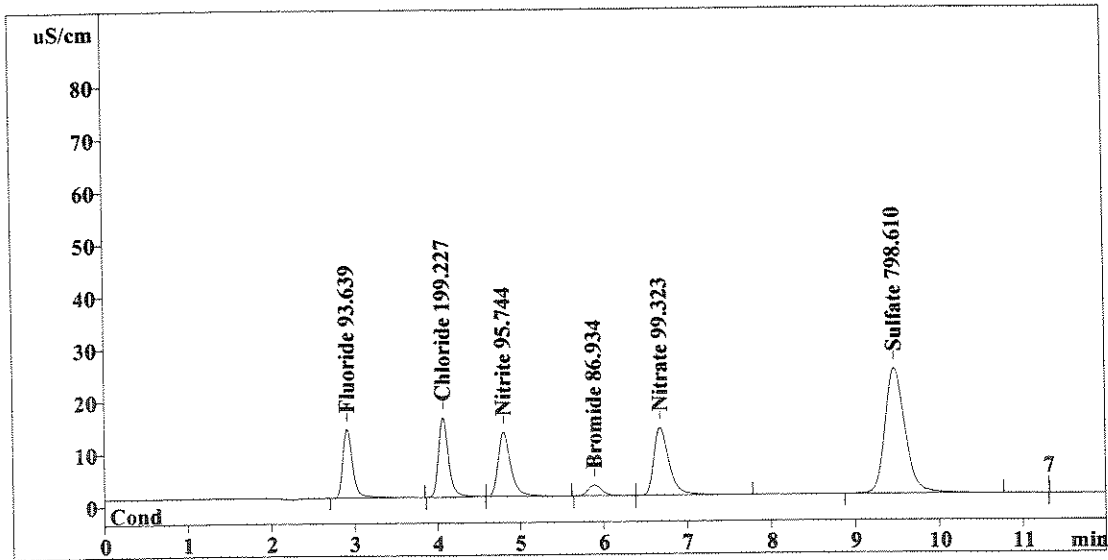
Method 300.0/9056

Report date: 6/26/2008 16:19:55
 Printed by: User
 Ident: 1111250 SPK
 Analysis from: 6/26/2008 16:07:57
 File: S6261607.CHW

Last save: 6/26/2008 16:19:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37549
 SAMPLE: S
 Vial number: 24
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	107.424	93.639	Fluoride
2	4.07	128.792	199.227	Chloride
3	4.80	130.812	95.744	Nitrite
4	5.89	23.900	86.934	Bromide
5	6.68	162.468	99.323	Nitrate
6	9.48	397.175	OK 798.610	Sulfate
				$\frac{-612.014}{200} \times 100 = 93.3\%$
6	12.00	950.571	1373.476	

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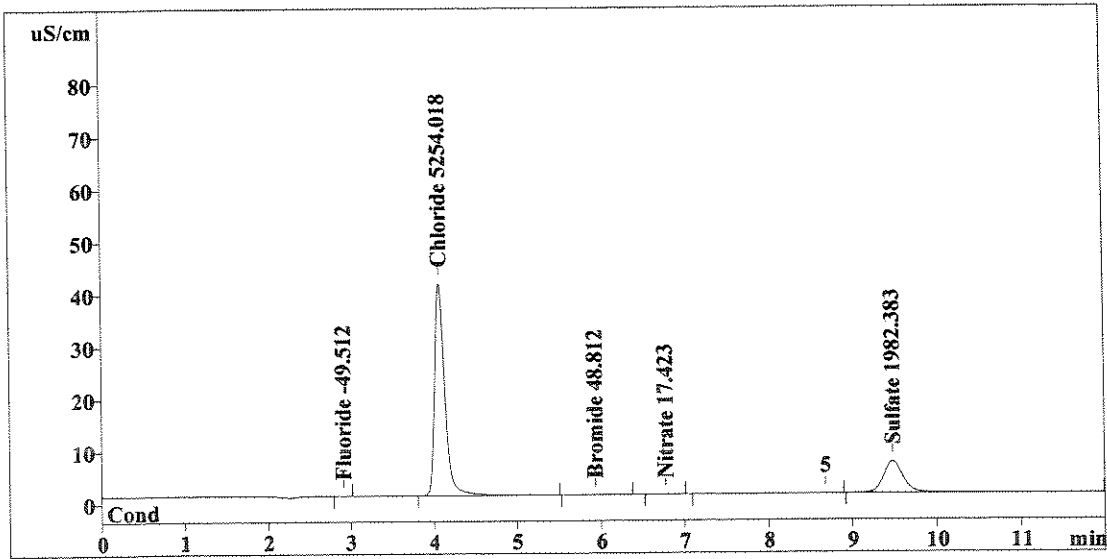
Method 300.0/9056

Report date: 6/26/2008 16:34:01
 Printed by: User
 Ident: 1110532 R-44538
 Analysis from: 6/26/2008 16:22:03
 File: S6261622.CHW

Last save: 6/26/2008 16:34:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37550
 SAMPLE: C
 Vial number: 25
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.074	-49.512	Fluoride
2	4.07	342.142	5254.018	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.93	0.702	48.812	Bromide
5	6.77	0.169	17.423	Nitrate
6	9.48	99.395	1982.383	Sulfate
6	12.00	442.481	7352.147	

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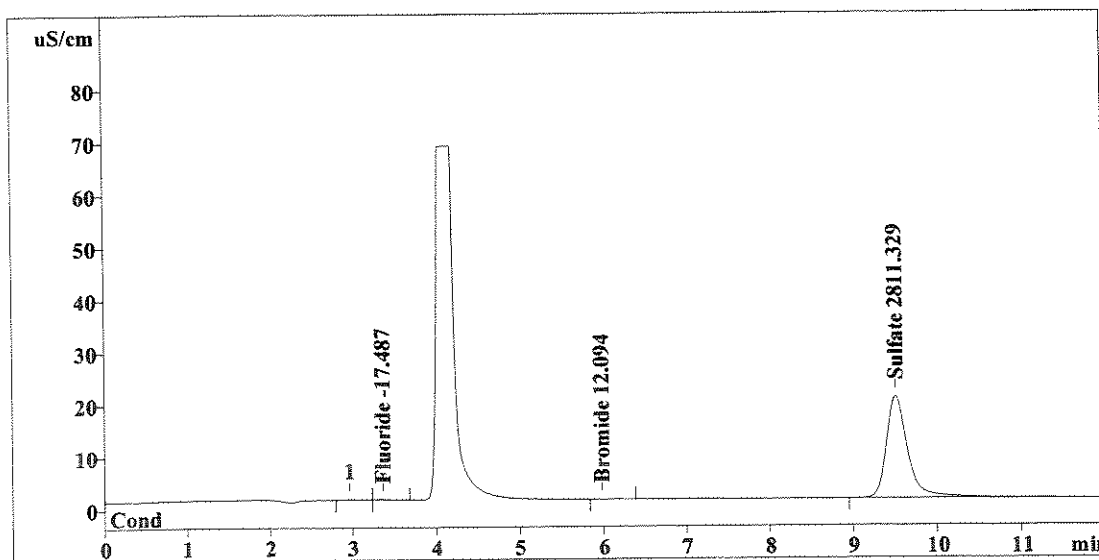
Method 300.0/9056

Report date: 6/26/2008 16:48:07
 Printed by: User
 Ident: 1110981
 Analysis from: 6/26/2008 16:36:09
 File: S6261636.CHW

Last save: 6/26/2008 16:48:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37551
 SAMPLE: S
 Vial number: 26
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.705	-17.487	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	0.177	12.094	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.52	349.670	2811.329	Sulfate
6	12.00	350.552	2840.910	

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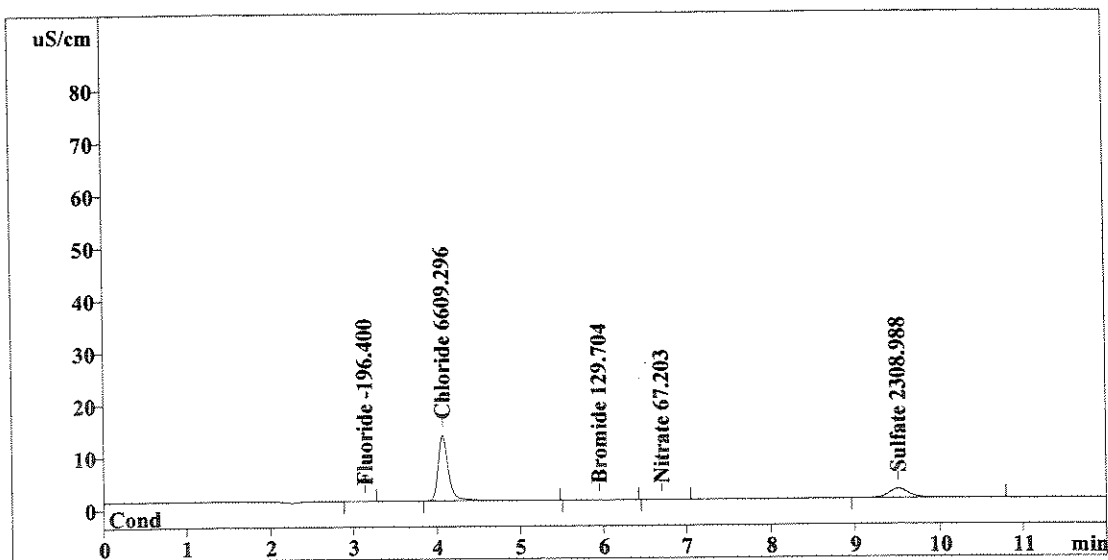
Method 300.0/9056

Report date: 6/26/2008 17:02:13
 Printed by: User
 Ident: 1110981
 Analysis from: 6/26/2008 16:50:15
 File: S6261650.CHW

Last save: 6/26/2008 17:02:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37552
 SAMPLE: C
 Vial number: 27
 Volume: 1.0 µL
 Dilution: 4000.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.14	0.119	-196.400	Fluoride
2	4.07	106.556	OK 6609.296	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	0.238	129.704	Bromide
5	6.70	0.065	67.203	Nitrate
6	9.51	29.701	2308.988	Sulfate
<hr/>				
6	12.00	136.680	9311.592	

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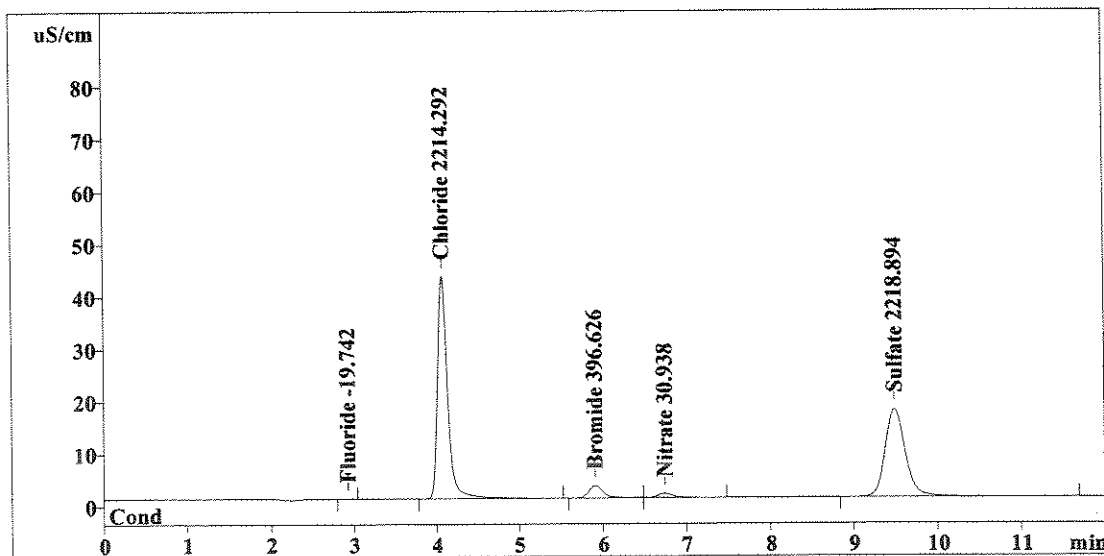
Ion Chromatography Analytical Report
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 Report date: 6/26/2008 17:16:19
 Printed by: User
 Ident: 1111264
 Analysis from: 6/26/2008 17:04:21
 File: S6261704.CHW

Method 300.0/9056

Last save: 6/26/2008 17:16:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37553
 SAMPLE: CS
 Vial number: 28
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.092	-19.742	Fluoride
2	4.07	360.568	OK 2214.292	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	27.355	396.626	Bromide
5	6.74	10.135	30.938	Nitrate
6	9.49	276.209	OK 2218.894	Sulfate
6	12.00	674.359	4880.492	

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Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

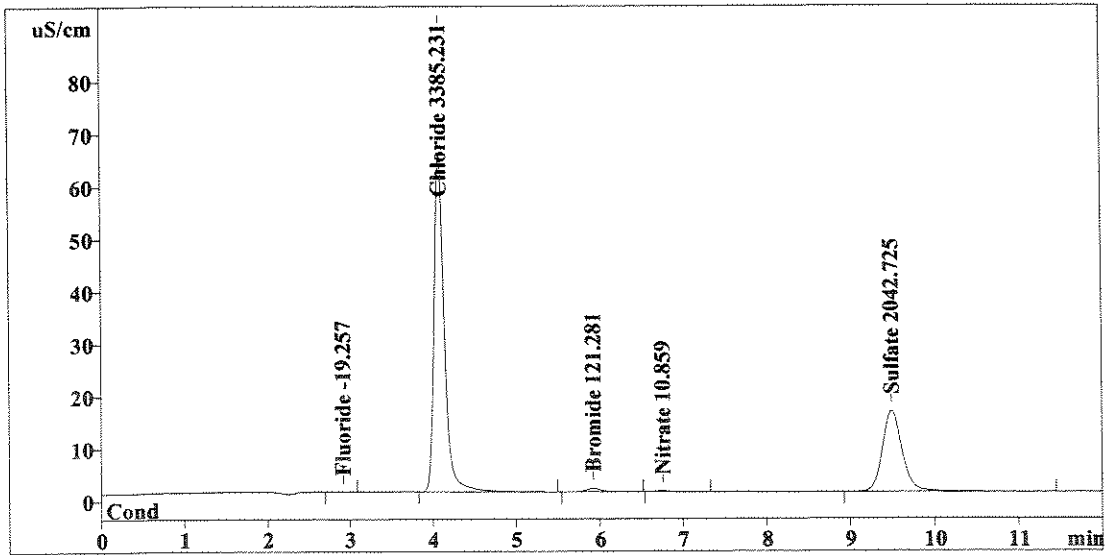
Method 300.0/9056

Report date: 6/26/2008 17:30:25
 Printed by: User
 Ident: 1111265
 Analysis from: 6/26/2008 17:18:27
 File: S6261718.CHW

Last save: 6/26/2008 17:30:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37554
 SAMPLE: CS
 Vial number: 29
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.224	-19.257	Fluoride
2	4.08	552.045	3385.231	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.92	7.894	121.281	Bromide
5	6.76	1.786	10.859	Nitrate
6	9.49	254.364	2042.725	Sulfate
6	12.00	816.312	5579.353	

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 Columbia Analytical Services
 Rochester, NY 14609

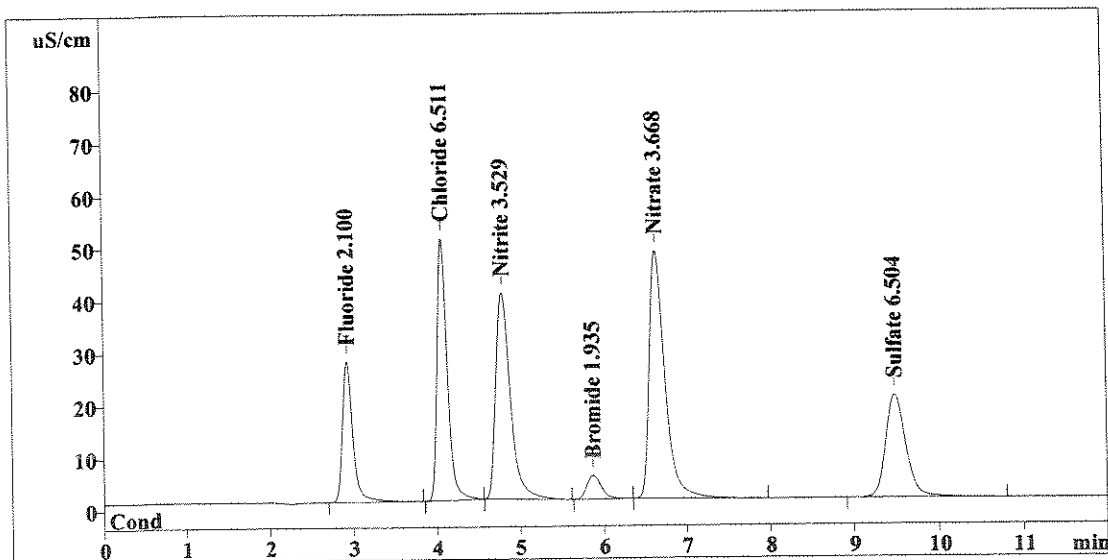
Method 300.0/9056

Report date: 6/26/2008 17:44:31
 Printed by: User
 Ident: CCV
 Analysis from: 6/26/2008 17:32:32
 File: S6261732.CHW

Last save: 6/26/2008 17:44:30

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37555
 SAMPLE:
 Vial number: 30
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	234.107	2.100	Fluoride
2	4.07	424.350	6.511	Chloride
3	4.79	480.165	3.529	Nitrite
4	5.88	54.037	1.935	Bromide
5	6.64	607.351	3.668	Nitrate
6	9.49	323.668	6.504	Sulfate
<hr/>				
6	12.00	2123.676	24.247	

OK
↓

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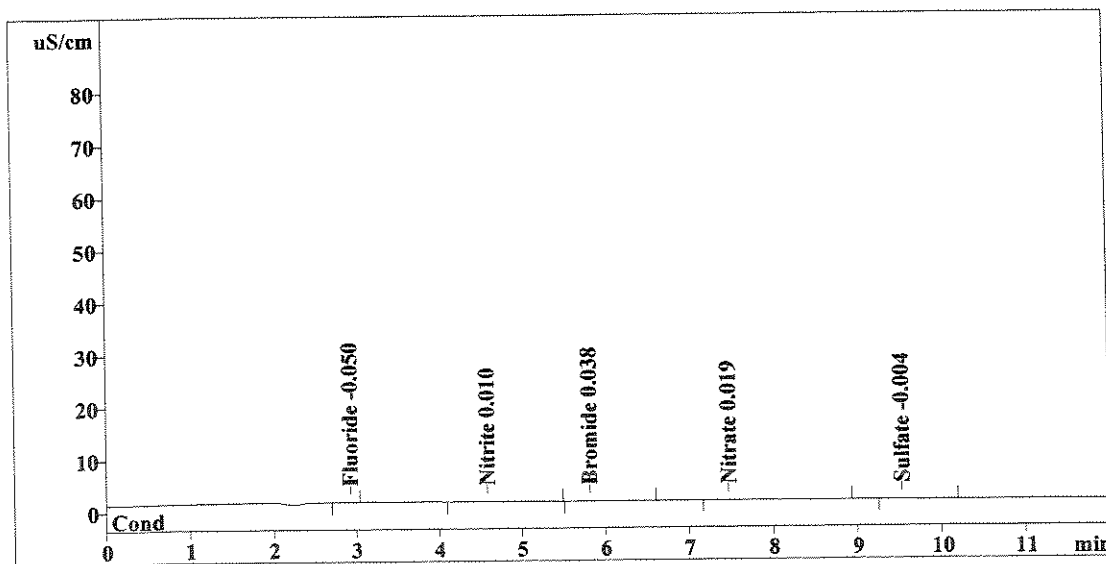
TC 6/27/08

Report date: 6/26/2008 17:58:36
 Printed by: User
 Ident: CCB
 Analysis from: 6/26/2008 17:46:38
 File: S6261746.CHW

Last save: 6/26/2008 17:58:36

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37556
 SAMPLE:
 Vial number: 31
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.066	-0.050	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.58	2.090	0.010	Nitrite
4	5.81	0.386	0.038	Bromide
5	7.49	0.386	0.019	Nitrate
6	9.53	0.857	-0.004	Sulfate
6	12.00	3.786	0.120	

OK
↓

TC 6/27/08

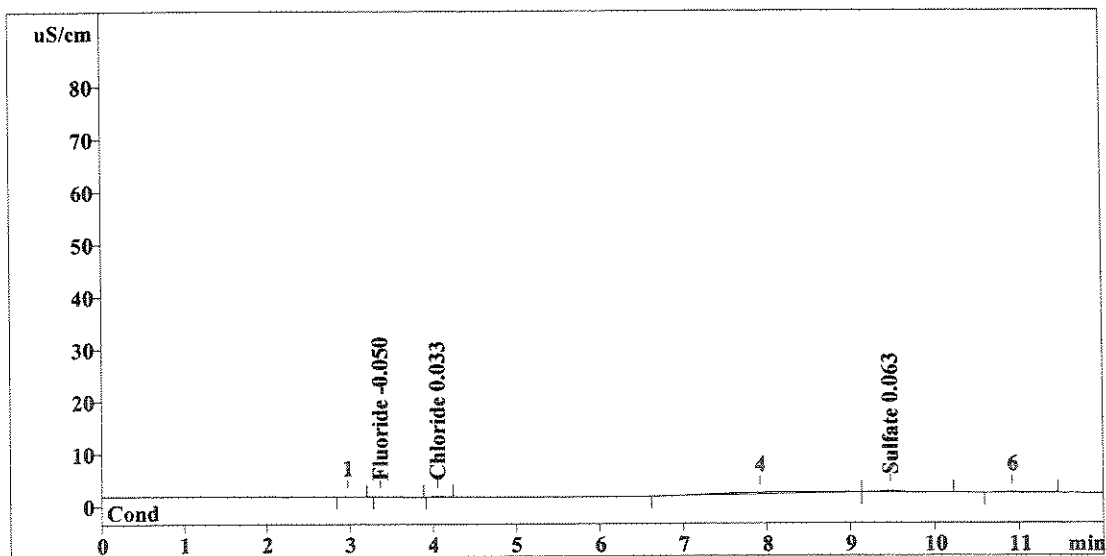
This report has been created by IC Net
 METROHM LTD

Report date: 6/26/2008 18:12:42
 Printed by: User
 Ident: LCS
 Analysis from: 6/26/2008 18:00:44
 File: S6261800.CHW

Last save: 6/26/2008 18:12:42

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37557
 SAMPLE:
 Vial number: 32
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.067	-0.050	Fluoride
2	4.06	0.666	0.033	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	9.48	4.202	0.063	Sulfate
6	12.00	4.935	0.146	

*OOPS
not
loaded*

TC 6/27/08

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*Do Not
Report to
End of Run*

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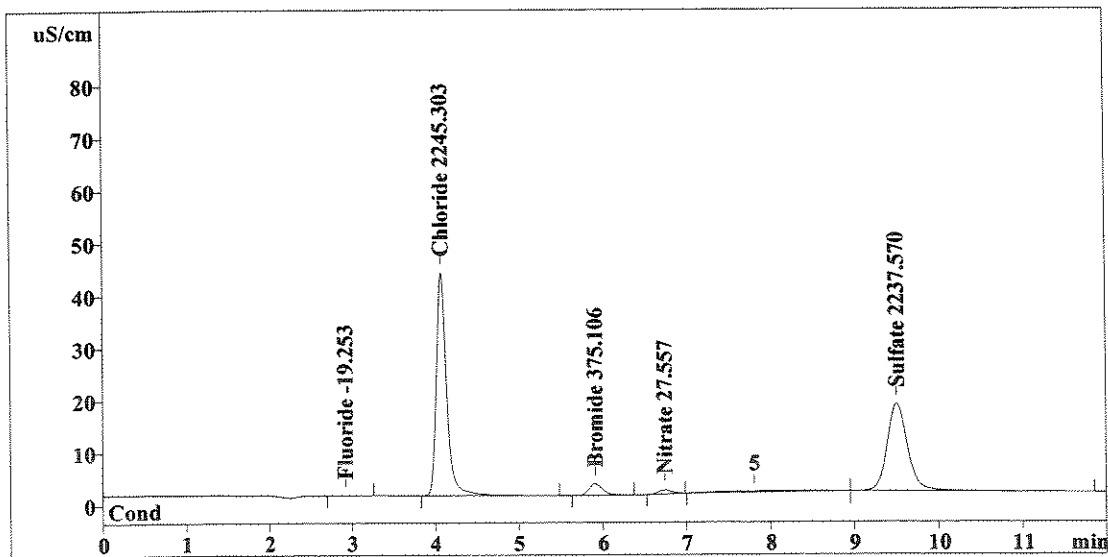
Method 300.0/9056

Report date: 6/26/2008 18:26:48
 Printed by: User
 Ident: 1111266
 Analysis from: 6/26/2008 18:14:50
 File: S6261814.CHW

Last save: 6/26/2008 18:26:48

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37558
 SAMPLE: CS
 Vial number: 33
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.225	-19.253	Fluoride
2	4.07	365.639	2245.303	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	25.834	375.106	Bromide
5	6.73	8.729	27.557	Nitrate
6	9.50	278.525	2237.570	Sulfate
<hr/>				
6	12.00	678.952	4904.789	

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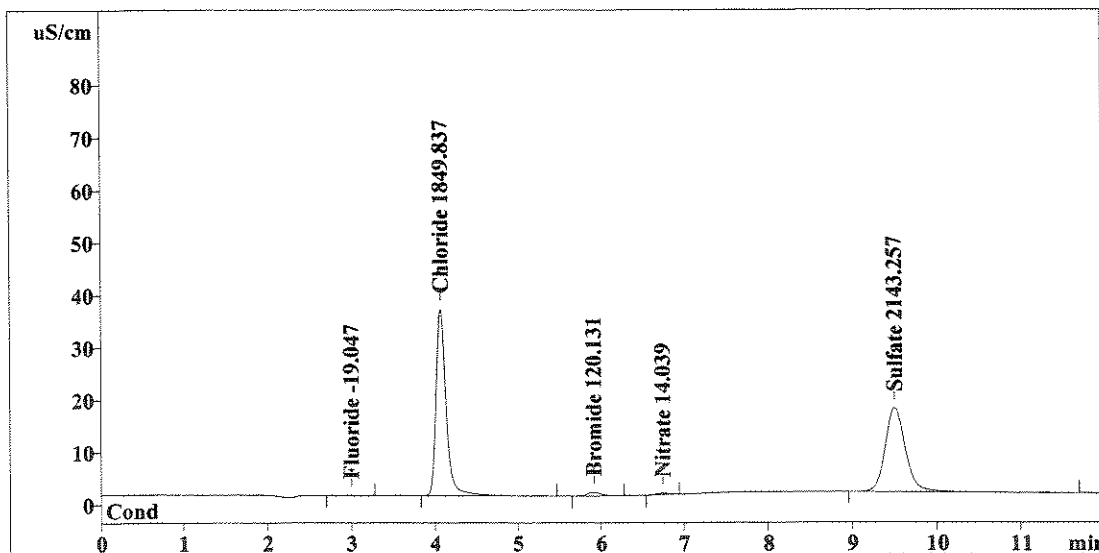
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/26/2008 18:40:54
 Printed by: User
 Ident: 1111267
 Analysis from: 6/26/2008 18:28:56
 File: S6261828.CHW

Method 300.0/9056

Last save: 6/26/2008 18:40:54

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37559
 SAMPLE: CS
 Vial number: 34
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.00	0.281	-19.047	Fluoride
2	4.07	300.971	1849.837	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.92	7.813	120.131	Bromide
5	6.74	3.108	14.039	Nitrate
6	9.51	266.830	2143.257	Sulfate
6	12.00	579.003	4146.311	

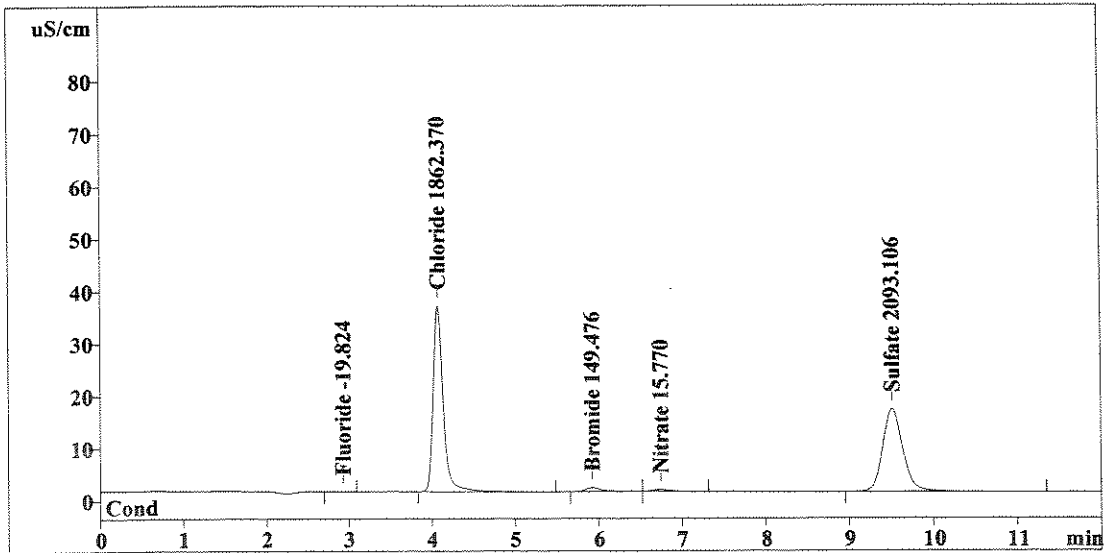
This report has been created by IC Net
METROHM LTD

Report date: 6/26/2008 18:55:00
 Printed by: User
 Ident: 1111267 DUP
 Analysis from: 6/26/2008 18:43:02
 File: S6261843.CHW

Last save: 6/26/2008 18:55:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37560
 SAMPLE: CS
 Vial number: 35
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.069	-19.824	Fluoride
2	4.07	303.021	1862.370	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.92	9.887	149.476	Bromide
5	6.75	3.828	15.770	Nitrate
6	9.51	260.611	2093.106	Sulfate
<hr/>				
6	12.00	577.416	4140.545	

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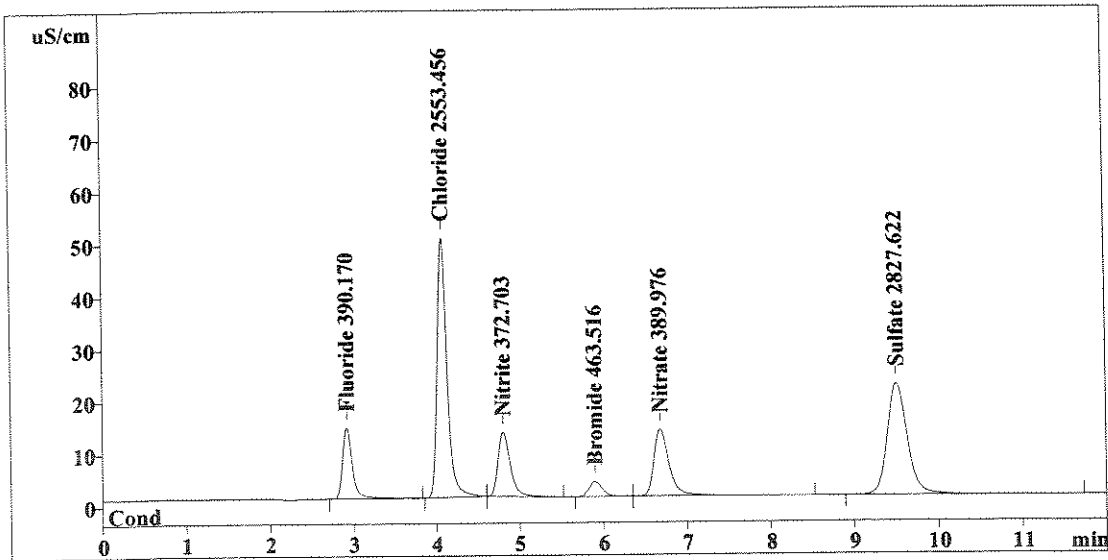
Method 300.0/9056

Report date: 6/26/2008 19:09:06
 Printed by: User
 Ident: 1111267 SPK
 Analysis from: 6/26/2008 18:57:08
 File: S6261857.CHW

Last save: 6/26/2008 19:09:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37561
 SAMPLE: CS
 Vial number: 36
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	111.674	390.170	Fluoride
2	4.07	416.030	2553.456	Chloride
3	4.80	127.323	372.703	Nitrite
4	5.90	32.083	463.516	Bromide
5	6.68	159.427	389.976	Nitrate
6	9.51	351.690	2827.622	Sulfate
<hr/>				
6	12.00	1198.227	6997.442	

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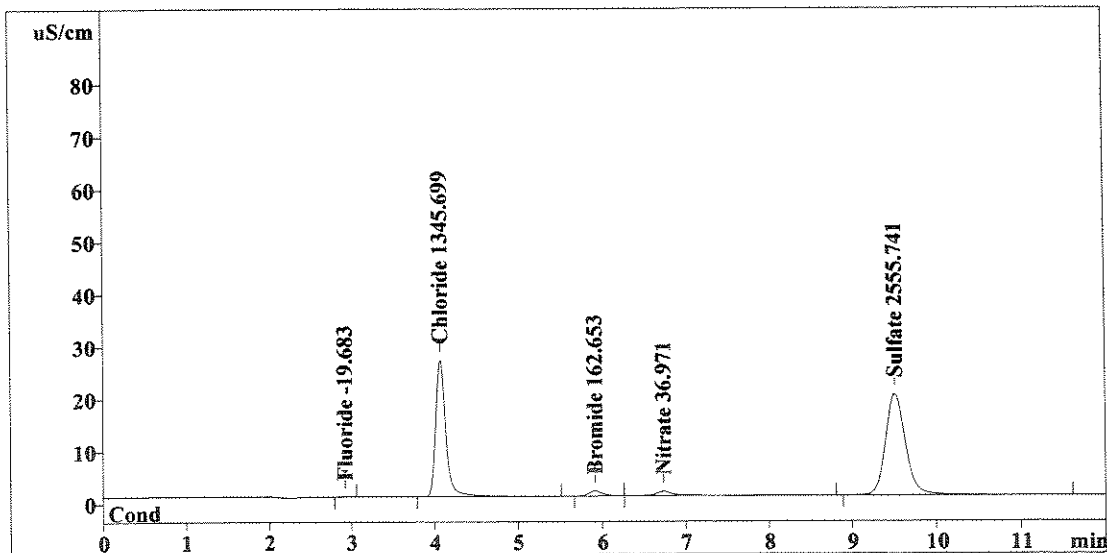
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 6/26/2008 19:23:12
 Printed by: User
 Ident: 1111763
 Analysis from: 6/26/2008 19:11:14
 File: S6261911.CHW

Method 300.0/9056

Last save: 6/26/2008 19:23:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37562
 SAMPLE: CS
 Vial number: 37
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.108	-19.683	Fluoride
2	4.07	218.532	1345.699	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.92	10.818	162.653	Bromide
5	6.74	12.644	36.971	Nitrate
6	9.51	317.977	2555.741	Sulfate
6	12.00	560.079	4120.747	

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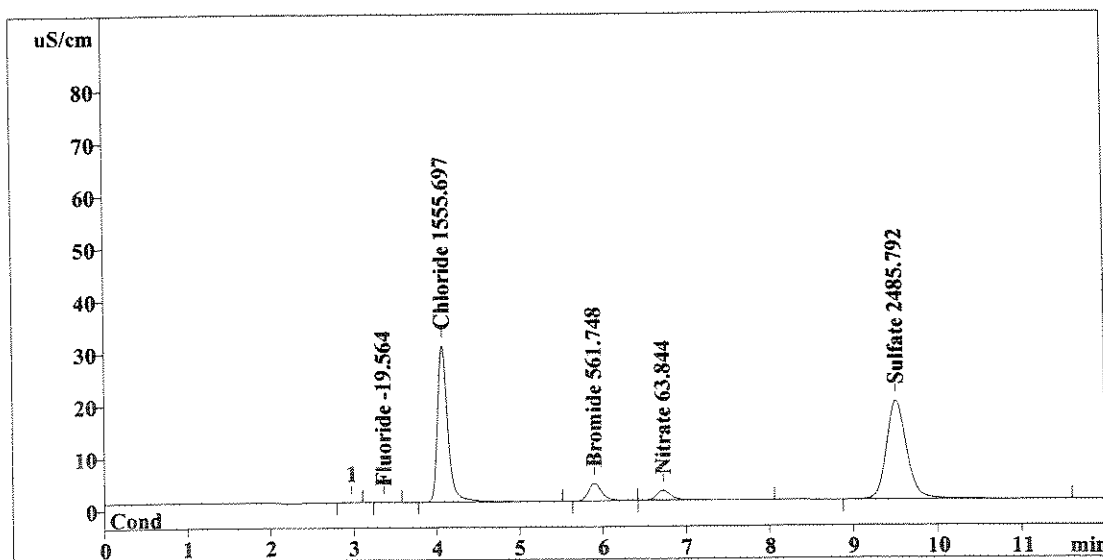
Method 300.0/9056

Report date: 6/26/2008 19:37:17
 Printed by: User
 Ident: 1111764
 Analysis from: 6/26/2008 19:25:19
 File: S6261925.CHW

Last save: 6/26/2008 19:37:17

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37563
 SAMPLE: CS
 Vial number: 38
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.140	-19.564	Fluoride
2	4.07	252.872	1555.697	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	39.026	561.748	Bromide
5	6.72	23.818	63.844	Nitrate
6	9.51	309.304	2485.792	Sulfate
6	12.00	625.160	4686.645	

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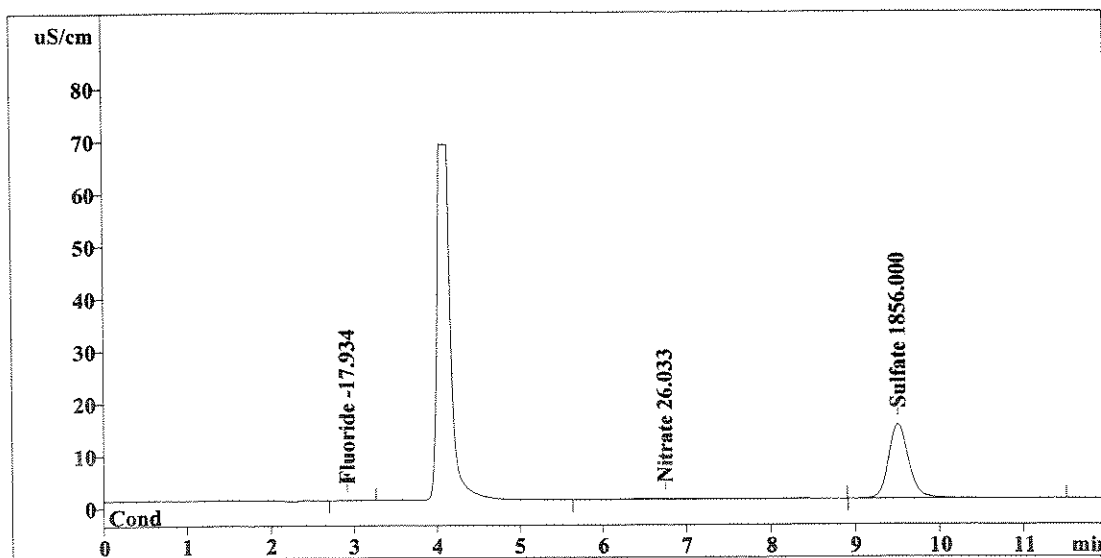
Method 300.0/9056

Report date: 6/26/2008 19:51:24
 Printed by: User
 Ident: 1111765
 Analysis from: 6/26/2008 19:39:25
 File: S6261939.CHW

Last save: 6/26/2008 19:51:24

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37564
 SAMPLE: CS
 Vial number: 39
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.584	-17.934	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	6.75	8.096	26.033	Nitrate
6	9.51	231.211	1856.000	Sulfate
6	12.00	239.890	1899.968	

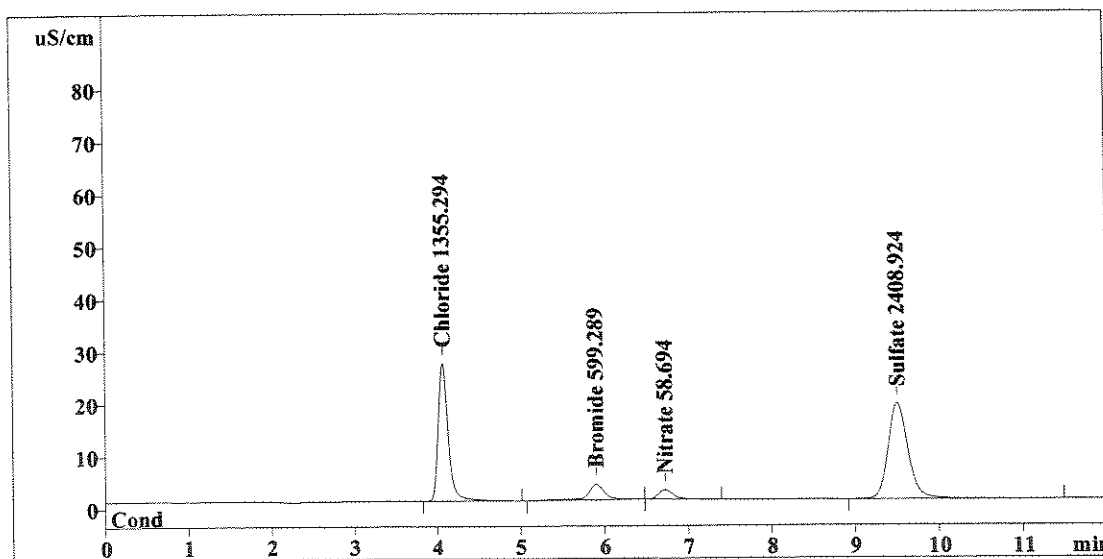
This report has been created by IC Net
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Report date: 6/26/2008 20:05:29
 Printed by: User
 Ident: 1112065 R-44650
 Analysis from: 6/26/2008 19:53:31
 File: S6261953.CHW

Last save: 6/26/2008 20:05:29

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37565
 SAMPLE: CS
 Vial number: 40
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



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	220.101	1355.294	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	41.679	599.289	Bromide
5	6.72	21.676	58.694	Nitrate
6	9.51	299.772	2408.924	Sulfate
<hr/>				
6	12.00	583.230	4422.201	

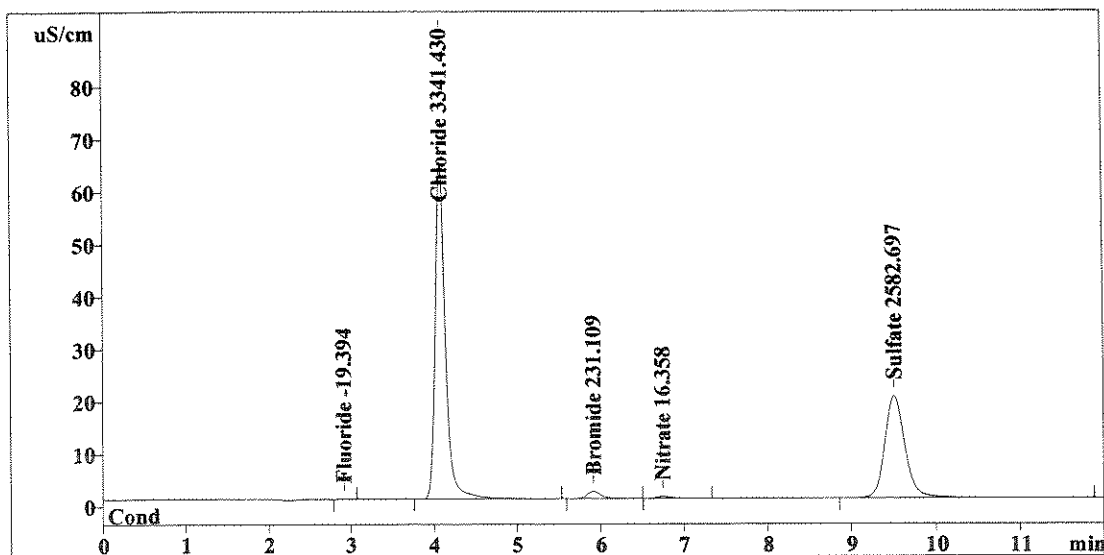
This report has been created by IC Net
 METROHM LTD

Report date: 6/26/2008 20:19:35
 Printed by: User
 Ident: 1112066
 Analysis from: 6/26/2008 20:07:37
 File: S6262007.CHW

Last save: 6/26/2008 20:19:35

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37566
 SAMPLE: CS
 Vial number: 41
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.186	-19.394	Fluoride
2	4.08	544.882	3341.430	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.92	15.657	231.109	Bromide
5	6.75	4.073	16.358	Nitrate
6	9.51	321.320	2582.697	Sulfate
6	12.00	886.118	6190.988	

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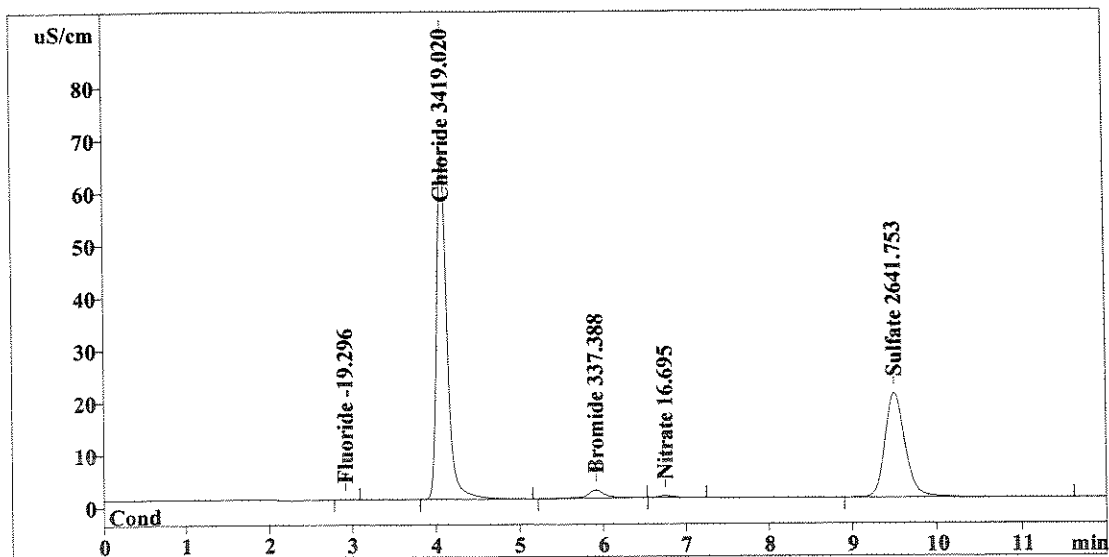
Method 300.0/9056

Report date: 6/26/2008 20:33:41
 Printed by: User
 Ident: 1112066 DUP
 Analysis from: 6/26/2008 20:21:43
 File: S6262021.CHW

Last save: 6/26/2008 20:33:41

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37567
 SAMPLE: CS
 Vial number: 42
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.213	-19.296	Fluoride
2	4.08	557.570	3419.020	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.92	23.168	337.388	Bromide
5	6.75	4.213	16.695	Nitrate
6	9.51	328.643	2641.753	Sulfate
<hr/>				
6	12.00	913.807	6434.153	

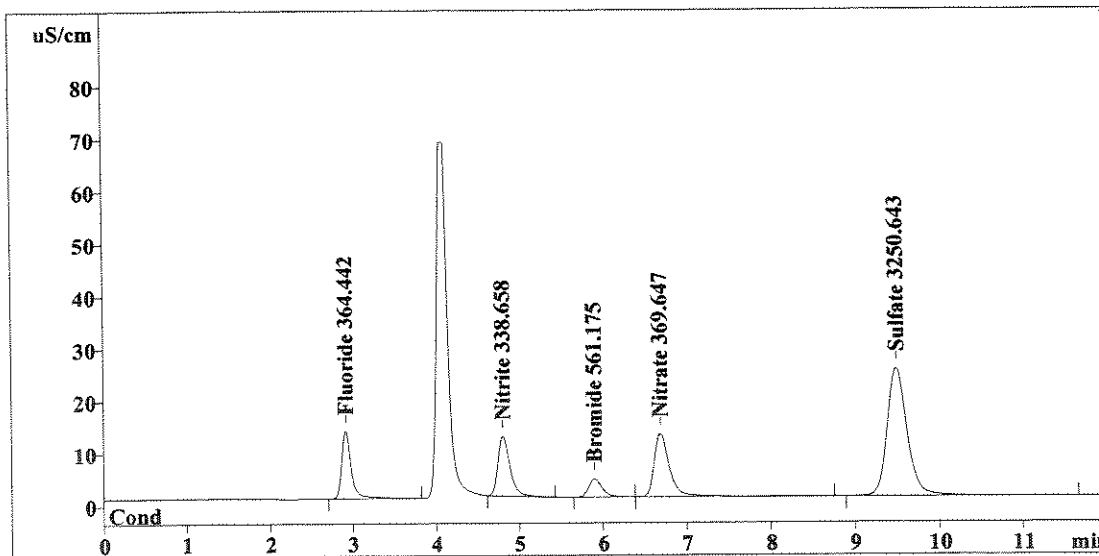
This report has been created by IC Net
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Report date: 6/26/2008 20:47:47
 Printed by: User
 Ident: 1112066 SPK
 Analysis from: 6/26/2008 20:35:49
 File: S6262035.CHW

Last save: 6/26/2008 20:47:47

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37568
 SAMPLE: CS
 Vial number: 43
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	104.671	364.442	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.80	115.759	338.658	Nitrite
4	5.90	38.986	561.175	Bromide
5	6.69	150.974	369.647	Nitrate
6	9.50	404.144	3250.643	Sulfate
6	12.00	814.533	4884.565	

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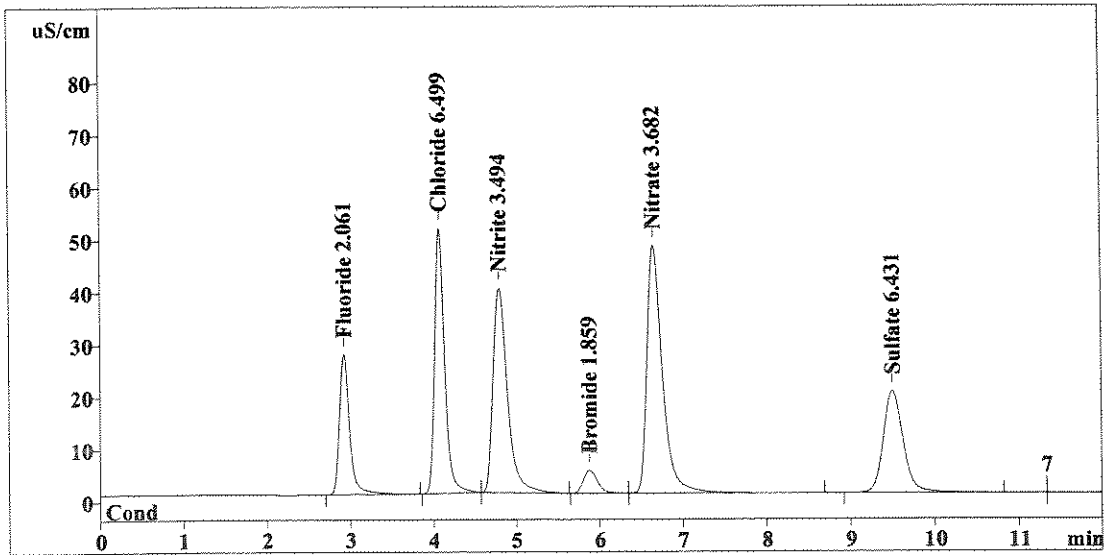
Method 300.0/9056

Report date: 6/26/2008 21:01:53
 Printed by: User
 Ident: CCV
 Analysis from: 6/26/2008 20:49:55
 File: S6262049.CHW

Last save: 6/26/2008 21:01:53

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37569
 SAMPLE:
 Vial number: 44
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	229.827	2.061	Fluoride
2	4.07	423.585	6.499	Chloride
3	4.80	475.463	3.494	Nitrite
4	5.88	51.893	1.859	Bromide
5	6.66	609.630	3.682	Nitrate
6	9.51	320.033	6.431	Sulfate
<hr/>				
6	12.00	2110.431	24.026	

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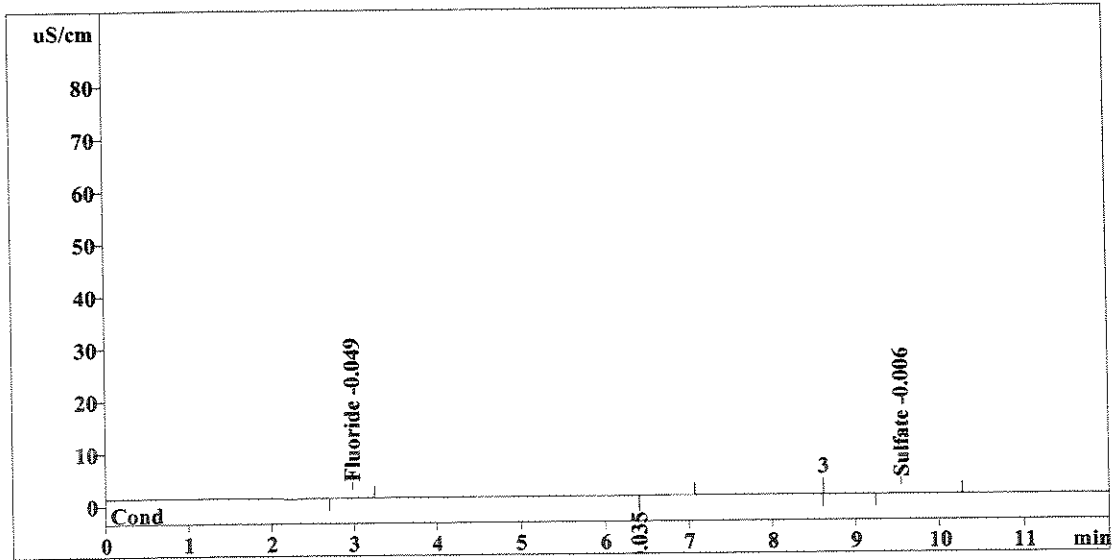
Method 300.0/9056

Report date: 6/26/2008 21:15:59
 Printed by: User
 Ident: CCB
 Analysis from: 6/26/2008 21:04:00
 File: S6262104.CHW

Last save: 6/26/2008 21:15:59

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37570
 SAMPLE:
 Vial number: 45
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/26/2008 08:22:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.99	0.127	-0.049	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.41	0.302	0.035	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.54	0.759	-0.006	Sulfate
<hr/>				
6	12.00	1.189	0.090	

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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: 10/26/08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
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 100mL 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	WC120053A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC120093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC120093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC120093C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC120093D
NO3		50			1.0			E		
OP04		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

44538 44621
 44650
 44797

Run #: 163658
 Analyte: SULFATE 9056 SULFATE BY ION CHROMATOGRAPHY
 Printed: 07/09/08 22:04

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	✓ 1111266	WATER	2220	400.0	0.200			07/08/08	RUN	ASPB
CHK5		✓ 1116080	WATER	6.46	1.0	0.200	100.9		07/08/08		
BLK4		✓ 1116081	WATER	0.200	1.0	0.200			07/08/08		
SPKB		✓ 1116082	WATER	1.85	1.0	0.200	92.4		07/08/08		
ESMP	R2844538	✓ 1111763	WATER	2410	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844538	✓ 1111764	WATER	2360	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844538	✓ 1111765	WATER	1800	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112065	WATER	2330	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112066	WATER	2400	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112067	WATER	2.00	10.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112486	WATER	1540	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112487	WATER	1500	400.0	0.200			07/08/08	RUN	ASPB
LDUP		✓ 1116084	WATER	1550	400.0	0.200		3.49	07/08/08		
SPK1		✓ 1116085	WATER	2270	400.0	0.200	96.7		07/08/08		
ESMP	R2844650	✓ 1112488	WATER	1120	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	✓ 1112489	WATER	1550	400.0	0.200			07/09/08	RUN	ASPB
ESMP	R2844650	✓ 1112809	WATER	1600	400.0	0.200			07/09/08		ASPB
ESMP	R2844650	✓ 1113426	WATER	2110	400.0	0.200			07/09/08		ASPB
ESMP	R2844650	✓ 1113429	WATER	1030	400.0	0.200			07/09/08		ASPB
LDUP		✓ 1116086	WATER	1050	400.0	0.200		2.30	07/09/08		
SPK1		✓ 1116087	WATER	1790	400.0	0.200	94.7		07/09/08		
ESMP	R2844650	✓ 1113430	WATER	2340	400.0	0.200			07/09/08		ASPB
LDUP		✓ 1116088	WATER	2350	400.0	0.200		0.27	07/09/08		
SPK1		✓ 1116089	WATER	3070	400.0	0.200	91.5		07/09/08		
BLK5		✓ 1116083	SOIL/SEDIME	20.0	1.0	20.0			07/08/08		
ESMP	R2844797	✓ 1114376	SOIL/SEDIME	215	100.0	20.0			07/08/08		ASPB
ESMP	R2844797	✓ 1114382	SOIL/SEDIME	25.2	10.0	20.0			07/08/08		ASPB

SD 7/10/08
 2150
 25.2 SD 7/10/08
 252

Records printed: 27

Reviewed & Approved
 By: S. Delo
 Date: 7/10/08

Run #: 163656

Analyte: CHLORIDE 9056 CHLORIDE BY ION CHROMATOGRAPHY

Printed: 07/09/08 22:08

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	1111266	WATER	2220	400.0	0.200			07/08/08	RUN	ASPB
CHK5		1116074	WATER	6.62	1.0	0.200	101.8		07/08/08		
BLK4		1116075	WATER	0.200	1.0	0.200			07/08/08		
SPKB		1116076	WATER	1.93	1.0	0.200	96.3		07/08/08		
ESMP	R2844538	1111763	WATER	1300	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844538	1111764	WATER	1620	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	1112065	WATER	1420	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	3150	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	2.00	10.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	845	400.0	0.200			07/08/08	RUN	ASPB
ESMP	R2844650	1113426	WATER	903	400.0	0.200			07/09/08		ASPB
ESMP	R2844650	1113427	WATER	2660	400.0	0.200			07/09/08		ASPB
ESMP	R2844650	1113429	WATER	603	400.0	0.200			07/09/08		ASPB
LDUP		1116077	WATER	616	400.0	0.200		2.09	07/09/08		
SPK1		1116078	WATER	1350	400.0	0.200	93.0		07/09/08		
BLK5		1116079	SOIL/SEDIME	20.0	1.0	20.0			07/08/08		
ESMP	R2844797	1114366	SOIL/SEDIME	24300	1000.0	20.0			07/08/08		ASPB
ESMP	R2844797	1114382	SOIL/SEDIME	95.1	10.0	20.0			07/08/08		ASPB

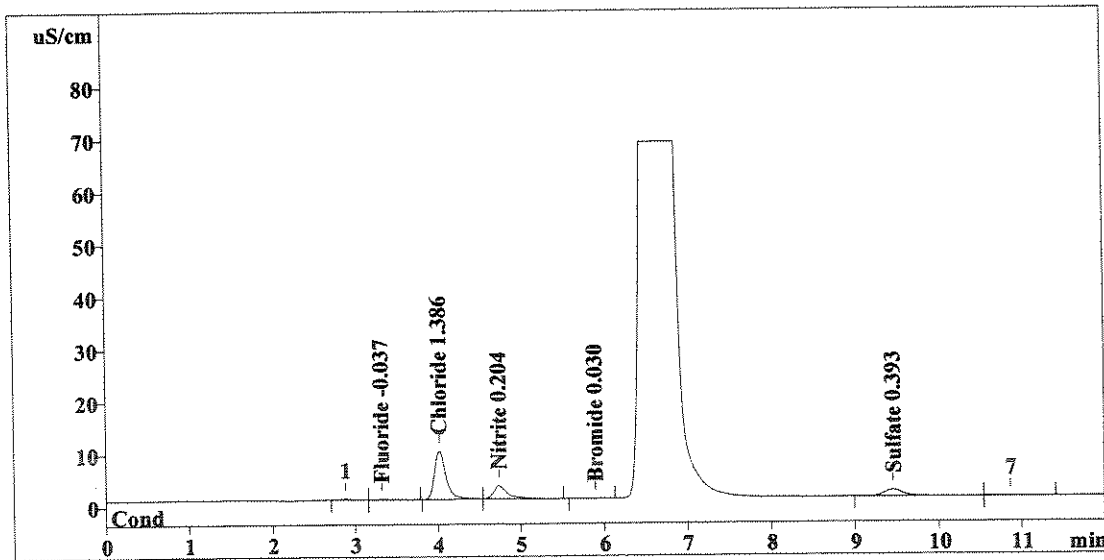
Records printed: 18

Report date: 7/8/2008 11:56:01
 Printed by: User
 Ident: LHAL0701
 Analysis from: 7/8/2008 11:44:03
 File: S7081144.CHW

Last save: 7/8/2008 11:56:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37881
 SAMPLE: TH:CL
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.32	1.423	-0.037	Fluoride
2	4.02	89.112	1.386	Chloride
3	4.74	28.416	0.204	Nitrite
4	5.89	0.158	0.030	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.46	20.583	0.393	Sulfate
6	12.00	139.692	2.050	

α
7/9/08

x 200 / 1.00 = 277.2

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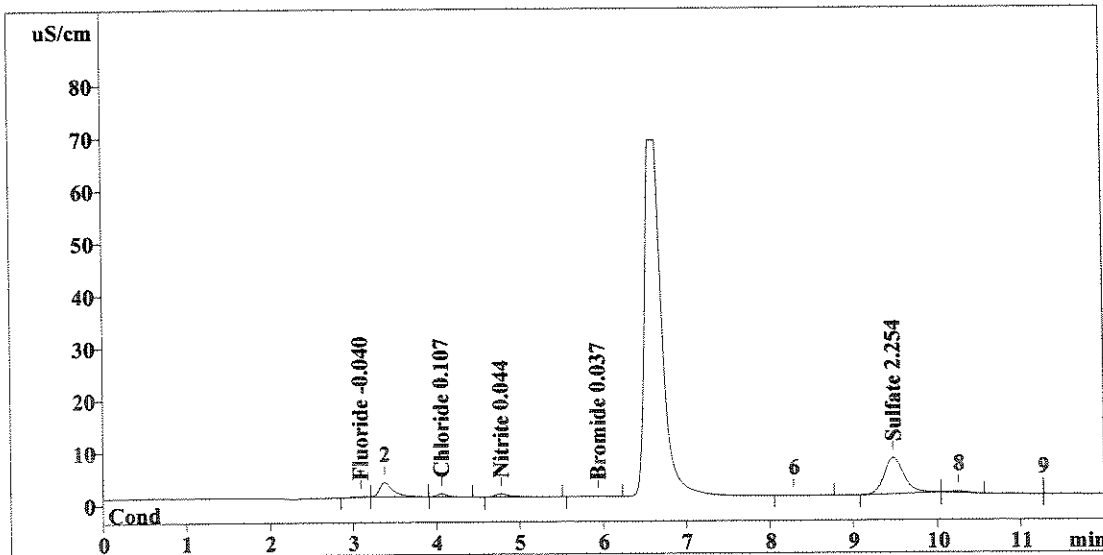
Method 300.0/9056

Report date: 7/8/2008 12:10:07
 Printed by: User
 Ident: 1111084A
 Analysis from: 7/8/2008 11:58:09
 File: S7081158.CHW

Last save: 7/8/2008 12:10:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37882
 SAMPLE: BTU, TH:CL
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.08	1.132	-0.040	Fluoride
2	4.06	5.461	0.107	Chloride
3	4.78	6.691	0.044	Nitrite
4	5.94	0.379	0.037	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	112.877	2.254	Sulfate
6	12.00	126.540	2.482	

OK
OK
 cm
 7/9/08

x 193
0.7430 = 27.794

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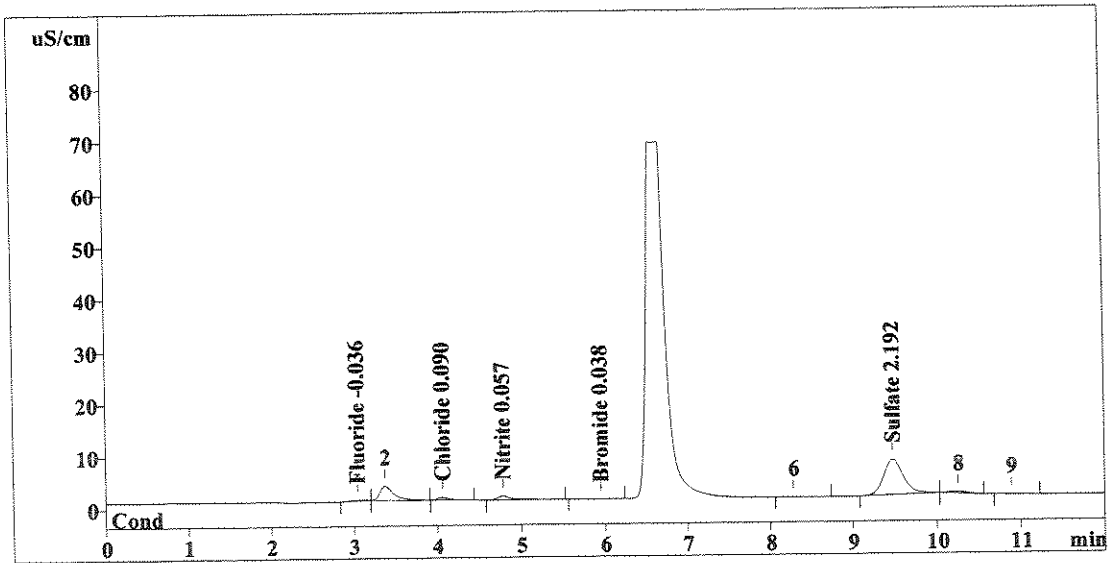
Method 300.0/9056

Report date: 7/8/2008 12:24:14
 Printed by: User
 Ident: 1111084B
 Analysis from: 7/8/2008 12:12:16
 File: S7081212.CHW

Last save: 7/8/2008 12:24:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37883
 SAMPLE: BTU, TH:CL
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.03	1.565	-0.036	Fluoride
2	4.06	4.353	0.090	Chloride
3	4.78	8.475	0.057	Nitrite
4	5.95	0.399	0.038	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	109.776	2.192	Sulfate
<hr/>				
6	12.00	124.568	2.412	

OK
OK
7/9/08

$2.412 \times \frac{190}{0.7922} = 21.585$

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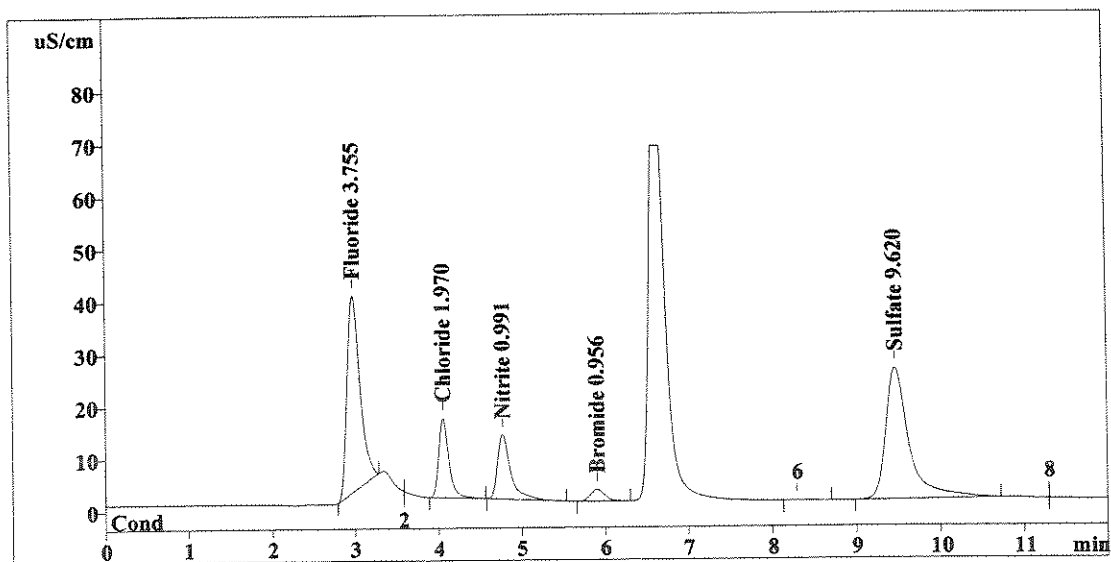
Method 300.0/9056

Report date: 7/8/2008 12:38:20
 Printed by: User
 Ident: 1111084A SPK
 Analysis from: 7/8/2008 12:26:22
 File: S7081226.CHW

Last save: 7/8/2008 12:38:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37884
 SAMPLE: BTU, TH:CL
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.97	414.289	3.755	Fluoride
2	4.06	127.328	1.970	Chloride
3	4.77	135.385	0.991	Nitrite
4	5.91	26.341	0.956	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.47	478.210	9.620	Sulfate
<hr/>				
6	12.00	1181.552	17.291	

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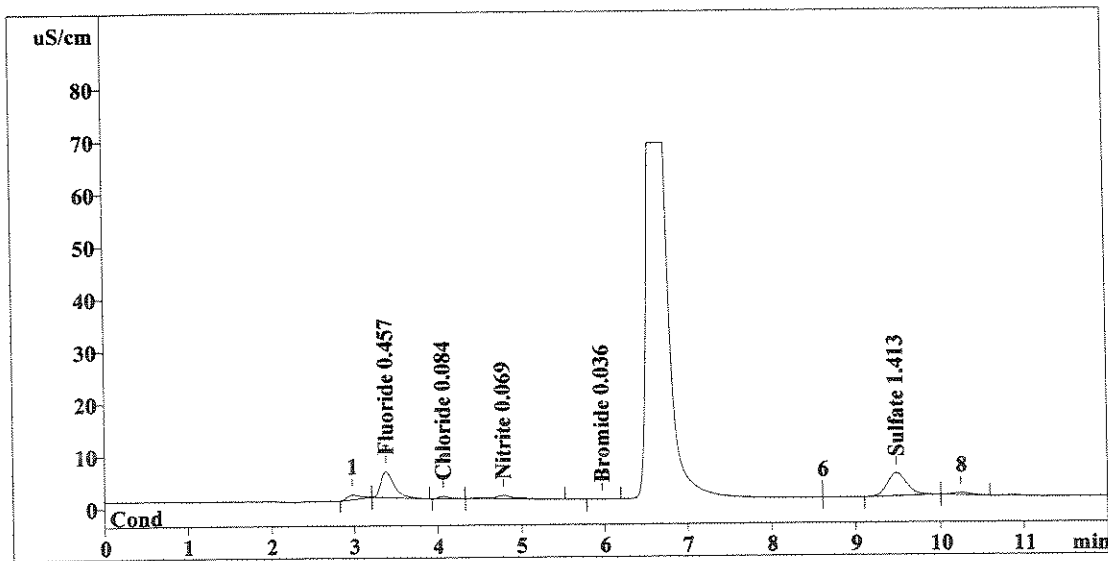
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 12:52:26
 Printed by: User
 Ident: 1111085A
 Analysis from: 7/8/2008 12:40:27
 File: S7081240.CHW

Method 300.0/9056

Last save: 7/8/2008 12:52:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37885
 SAMPLE: BTU, TH:CL
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	55.176	0.457	Fluoride
2	4.07	3.965	0.084	Chloride
3	4.78	10.075	0.069	Nitrite
4	5.97	0.325	0.036	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	71.133	1.413	Sulfate
6	12.00	140.675	2.057	

OK

OK

AM
7/9/08

$\frac{2.057 \times 193}{0.9018} = 17.977$

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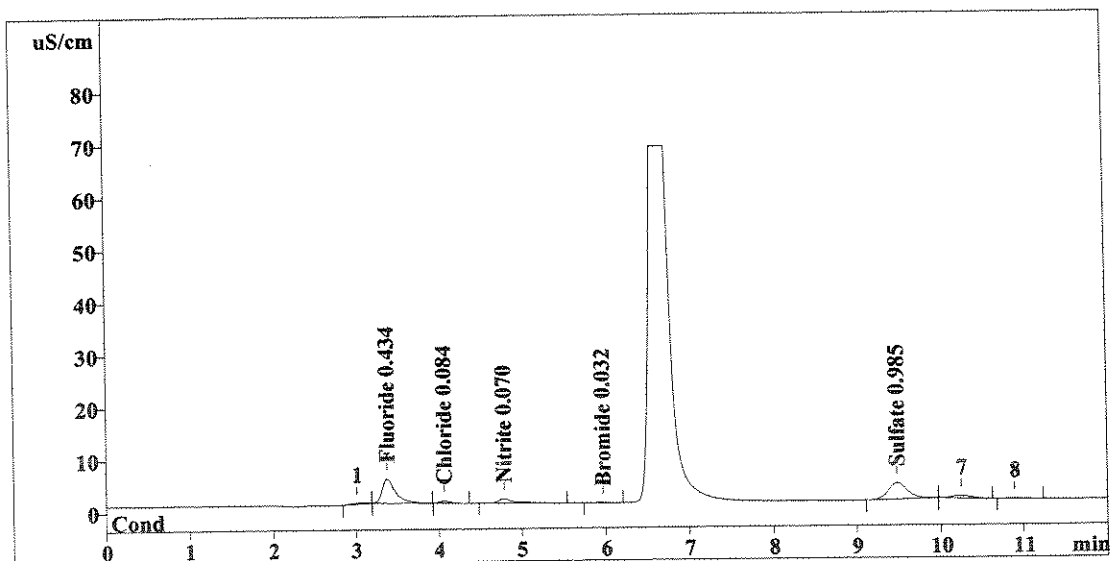
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 13:06:32
 Printed by: User
 Ident: 1111086A
 Analysis from: 7/8/2008 12:54:33
 File: S7081254.CHW

Method 300.0/9056

Last save: 7/8/2008 13:06:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37886
 SAMPLE: BTU, TH:CL
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	52.755	0.434	Fluoride
2	4.07	3.979	0.084	Chloride
3	4.79	10.251	0.070	Nitrite
4	5.97	0.214	0.032	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	49.907	0.985	Sulfate
<hr/>				
6	12.00	117.106	1.605	

OK
OK
7/9/08

x 190 = 16.700
0.9557

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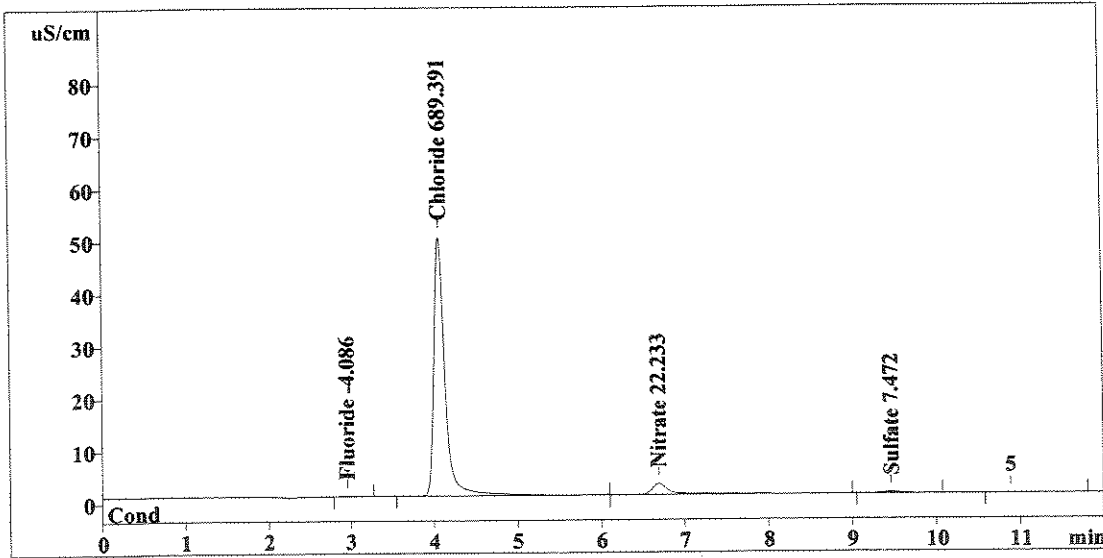
Method 300.0/9056

Report date: 7/8/2008 13:20:37
 Printed by: User
 Ident: LCL0701
 Analysis from: 7/8/2008 13:08:39
 File: S7081308.CHW

Last save: 7/8/2008 13:20:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37887
 SAMPLE: %CL
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	1.017	-4.086	Fluoride
2	4.06	449.406	689.391	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.69	34.250	22.233	Nitrate
6	9.46	4.776	7.472	Sulfate
6	12.00	489.449	723.182	

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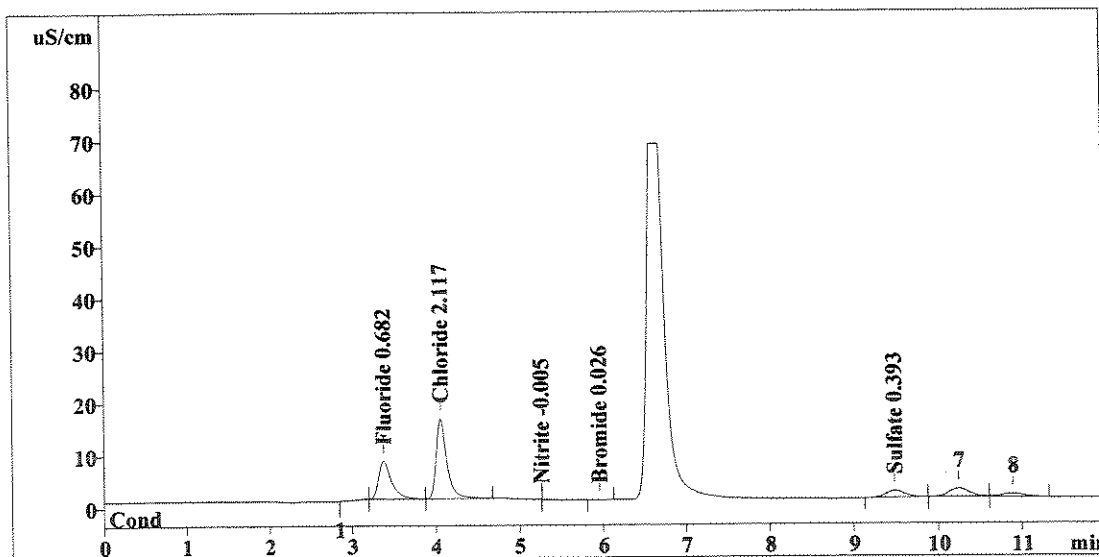
Method 300.0/9056

Report date: 7/8/2008 13:34:43
 Printed by: User
 Ident: 1102750A
 Analysis from: 7/8/2008 13:22:45
 File: S7081322.CHW

Last save: 7/8/2008 13:34:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37888
 SAMPLE: %CL, BTU
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	79.680	0.682	Fluoride
2	4.06	136.937	2.117	Chloride
3	5.27	-0.000	-0.005	Nitrite
4	5.96	0.070	0.026	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.49	20.557	0.393	Sulfate
6	12.00	237.244	3.223	

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Handwritten notes:
 OK
 OK
 Do not report % Cl.
 CUY
 7/9/08

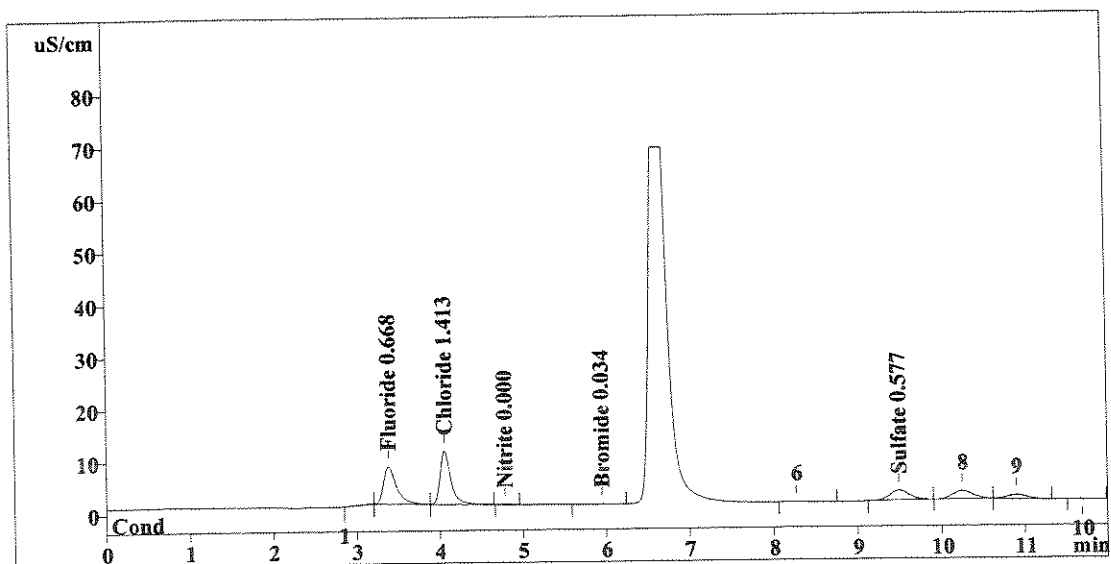
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 13:48:49
 Printed by: User
 Ident: 1102750B
 Analysis from: 7/8/2008 13:36:51
 File: S7081336.CHW

Method 300.0/9056

Last save: 7/8/2008 13:48:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37889
 SAMPLE: %CL, BTU
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	78.219	0.668	Fluoride
2	4.06	90.876	1.413	Chloride
3	4.78	0.777	0.000	Nitrite
4	5.95	0.284	0.034	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.49	29.688	0.577	Sulfate
6	12.00	199.844	2.692	

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Do not report % Cl.
CM 7/9/08

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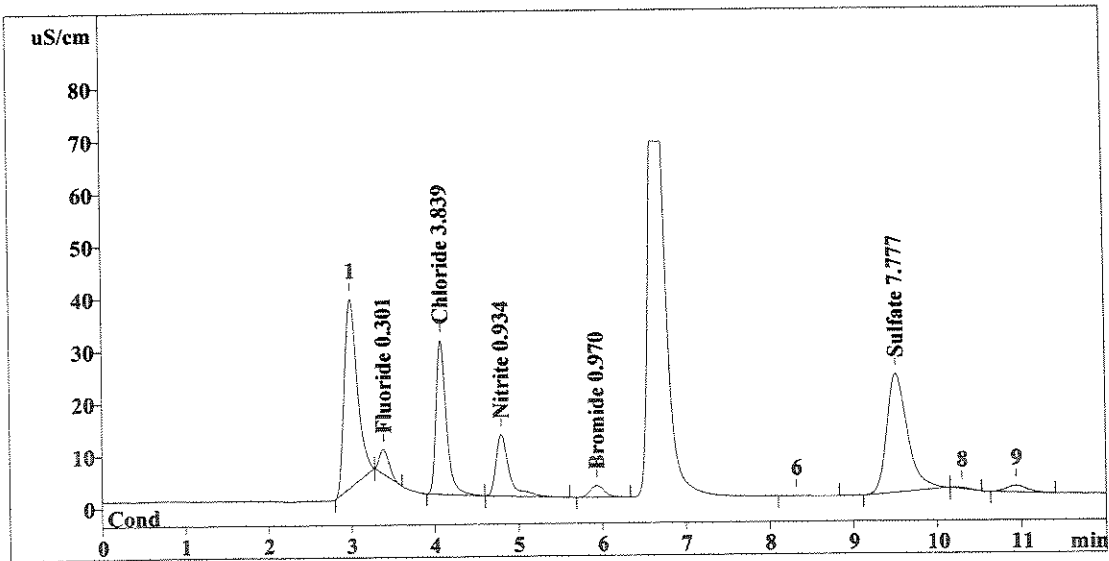
Method 300.0/9056

Report date: 7/8/2008 14:03:00
 Printed by: User
 Ident: 1102750A SPK
 Analysis from: 7/8/2008 13:50:57
 File: S7081350.CHW

Last save: 7/8/2008 14:03:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37890
 SAMPLE: %CL, BTU
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	38.221	0.301	Fluoride
2	4.08	249.583	3.839	Chloride
3	4.79	127.681	0.934	Nitrite
4	5.94	26.735	0.970	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.52	386.789	7.777	Sulfate
<hr/>				
6	12.00	829.009	13.821	

Handwritten signature and date: 7/9/08

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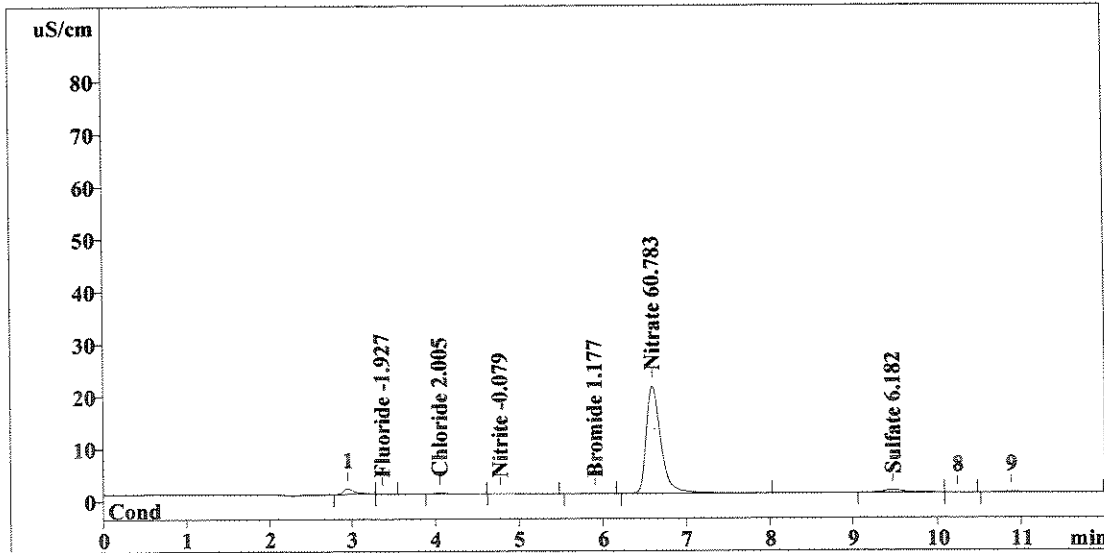
Method 300.0/9056

Report date: 7/8/2008 14:17:15
 Printed by: User
 Ident: 1111733A
 Analysis from: 7/8/2008 14:05:17
 File: S7081405.CHW

Last save: 7/8/2008 14:17:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37891
 SAMPLE: BTU
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.220	-1.927	Fluoride
2	4.06	1.757	2.005	Chloride
3	4.77	0.457	-0.079	Nitrite
4	5.90	0.154	1.177	Bromide
5	6.60	250.012	60.783	Nitrate
6	9.47	8.736	6.182	Sulfate
<hr/>				
6	12.00	261.337	72.153	

OK
CM
7/9/08

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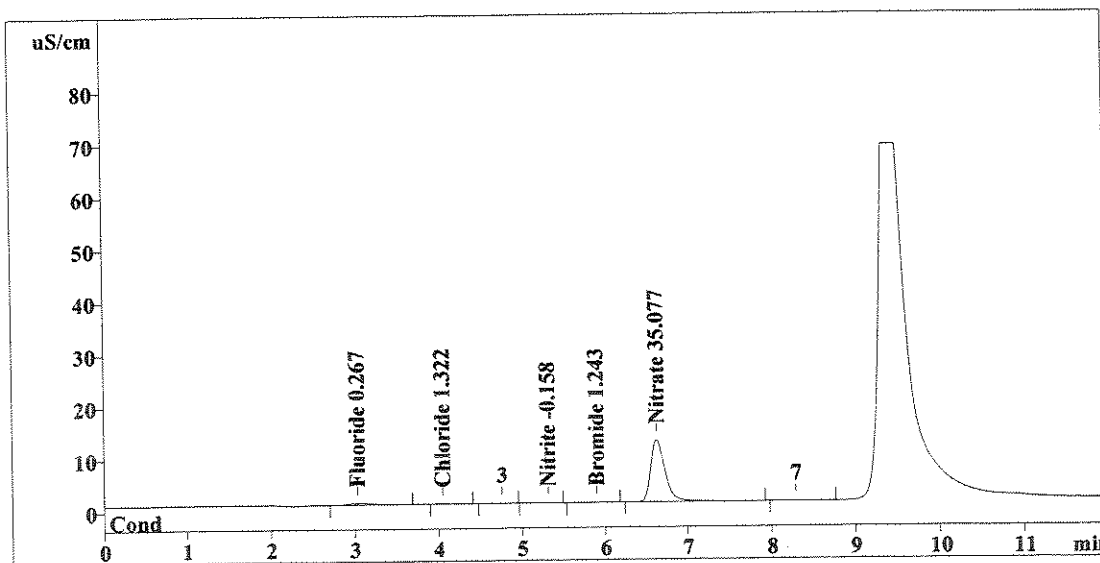
Method 300.0/9056

Report date: 7/8/2008 14:31:21
 Printed by: User
 Ident: 1113050A
 Analysis from: 7/8/2008 14:19:23
 File: S7081419.CHW

Last save: 7/8/2008 14:31:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37892
 SAMPLE: BTU
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.03	6.192	0.267	Fluoride
2	4.05	0.640	1.322	Chloride
3	5.30	0.190	-0.158	Nitrite
4	5.90	0.200	1.243	Bromide
5	6.63	143.126	35.077	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	150.348	38.066	

apt 7/200
cur 7/9/08

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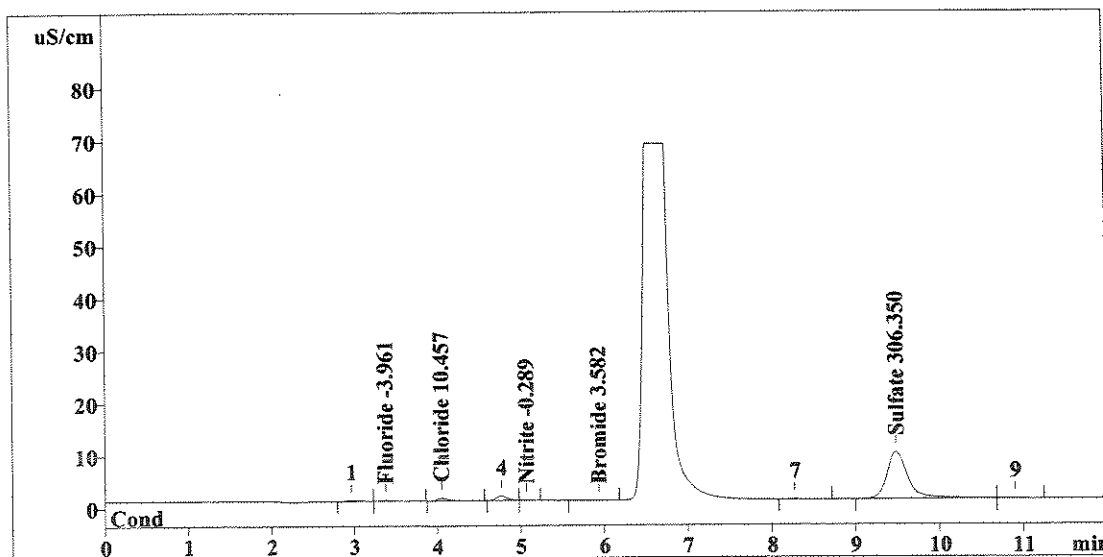
Method 300.0/9056

Report date: 7/8/2008 14:45:27
 Printed by: User
 Ident: BLK0702
 Analysis from: 7/8/2008 14:33:29
 File: S7081433.CHW

Last save: 7/8/2008 14:45:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37893
 SAMPLE: %CL
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	1.153	-3.961	Fluoride
2	4.05	5.319	10.457	Chloride
3	5.08	0.333	-0.289	Nitrite
4	5.94	0.334	3.582	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.49	153.017	306.350	Sulfate
6	12.00	160.156	324.638	

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*Reprocess
 Dilution.
 7/9/08*

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

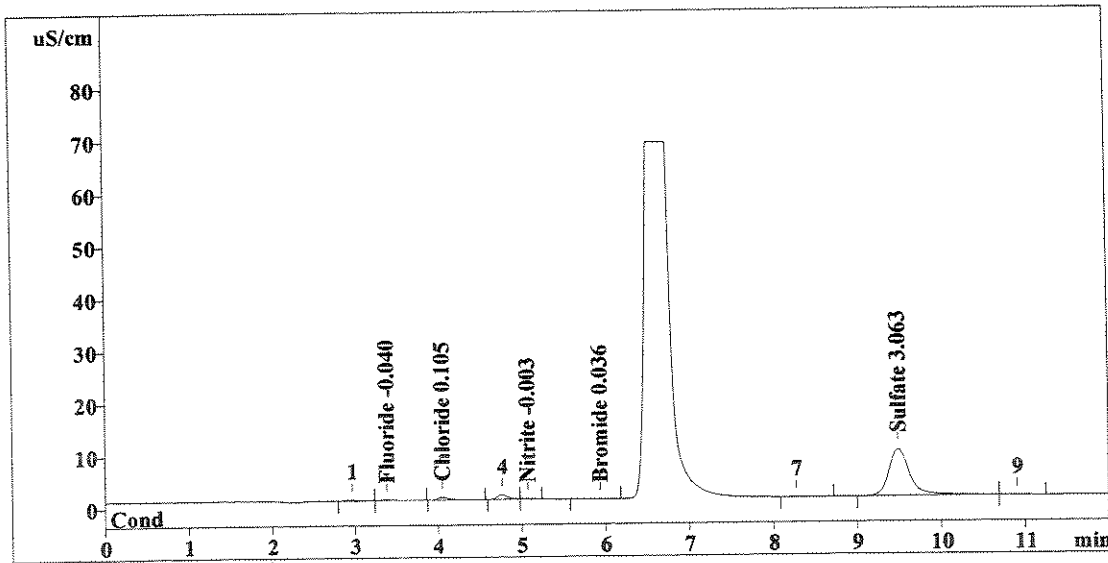
Method 300.0/9056

Report date: 7/9/2008 09:38:03
 Printed by: User
 Ident: BLK0702
 Analysis from: 7/8/2008 14:33:29
 File: s7081433.chw

Last save: 7/9/2008 09:37:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37893
 SAMPLE: %CL
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	1.153	-0.040	Fluoride
2	4.05	5.319	0.105	Chloride
3	5.08	0.333	-0.003	Nitrite
4	5.94	0.334	0.036	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.49	153.017	3.063	Sulfate
<hr/>				
6	12.00	160.156	3.246	

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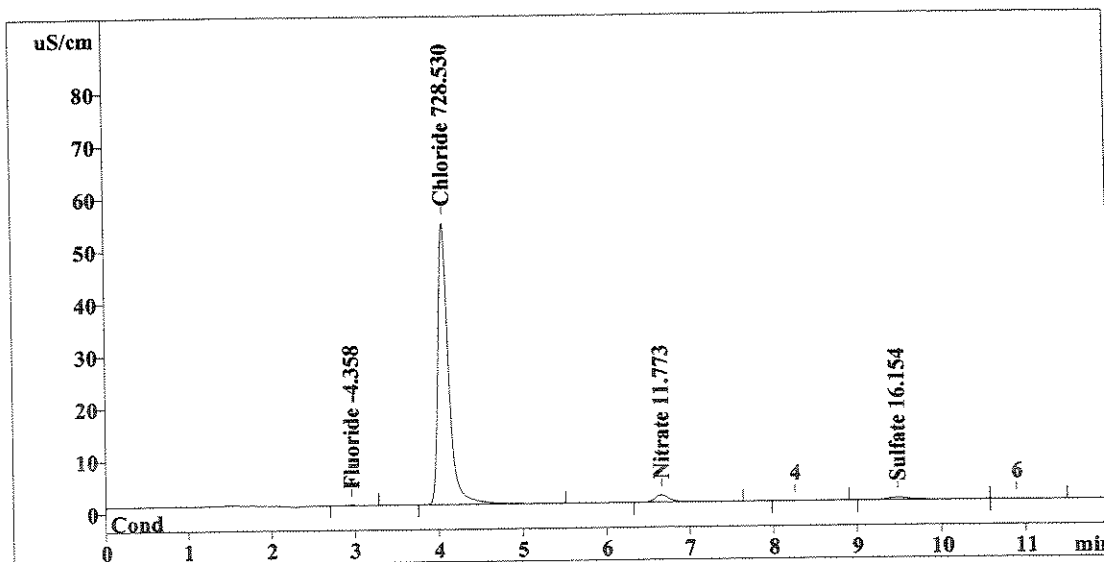
Handwritten notes:
 Dilution Reprocessed.
 7/9/08
 7/10/08

Report date: 7/8/2008 14:59:33
 Printed by: User
 Ident: LCL0702
 Analysis from: 7/8/2008 14:47:35
 File: S7081447.CHW

Last save: 7/8/2008 14:59:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37894
 SAMPLE: %CL
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	0.721	-4.358	Fluoride
2	4.06	475.007	728.530	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.66	16.853	11.773	Nitrate
6	9.48	9.082	16.154	Sulfate
6	12.00	501.662	760.815	

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Handwritten notes:
 reprocess
 dilution
 CMM 7/9/08

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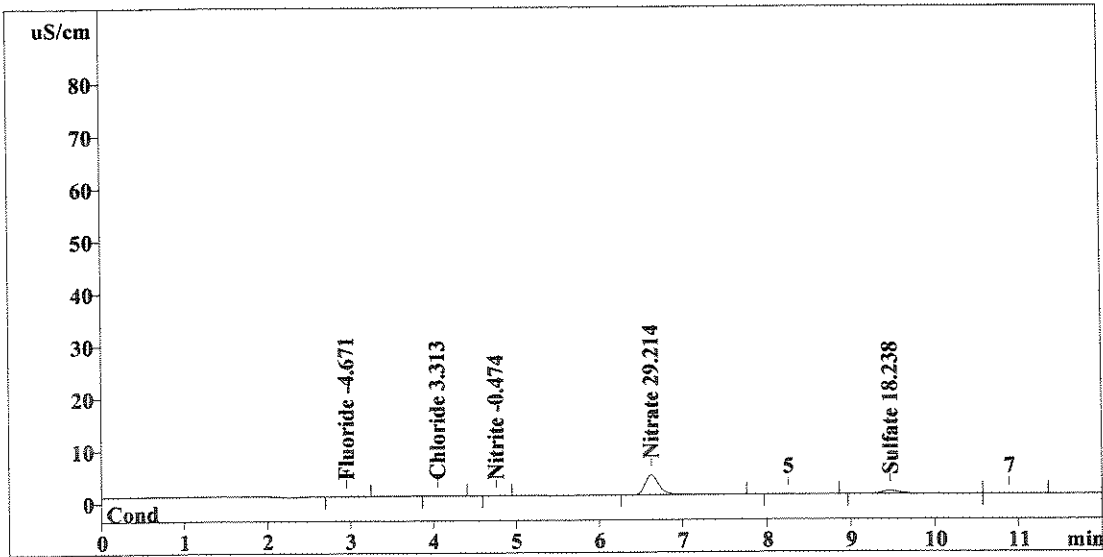
Method 300.0/9056

Report date: 7/8/2008 15:13:39
 Printed by: User
 Ident: 1110606A
 Analysis from: 7/8/2008 15:01:41
 File: S7081501.CHW

Last save: 7/8/2008 15:13:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37895
 SAMPLE: %CL
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	0.379	-4.671	Fluoride
2	4.05	0.645	3.313	Chloride
3	4.76	0.081	-0.474	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.63	45.860	29.214	Nitrate
6	9.47	10.116	18.238	Sulfate
<hr/>				
6	12.00	57.081	55.910	

apt str.
7/9/08

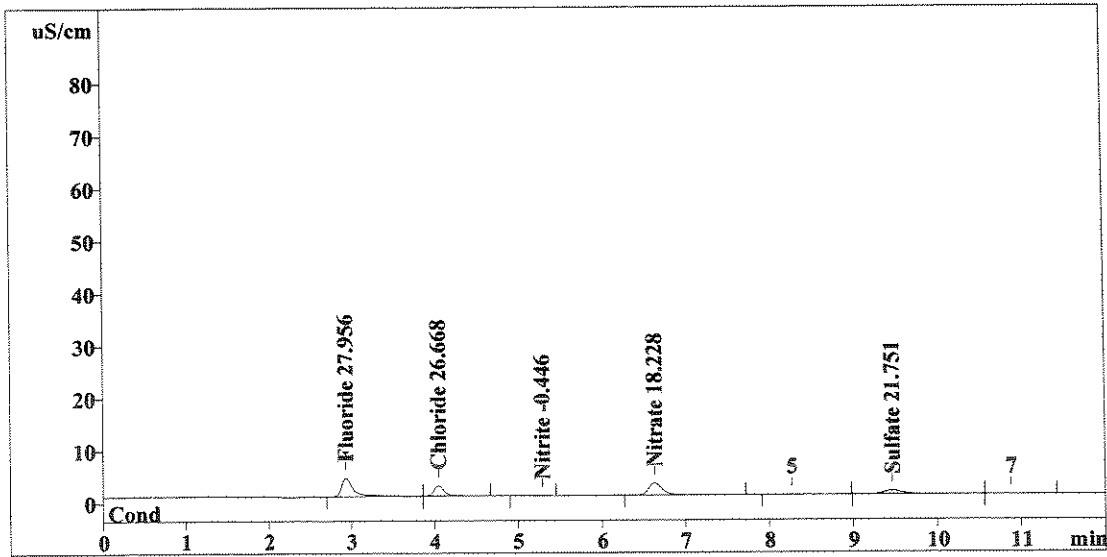
This report has been created by IC Net
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Report date: 7/8/2008 15:27:45
 Printed by: User
 Ident: 1110610A
 Analysis from: 7/8/2008 15:15:47
 File: S7081515.CHW

Last save: 7/8/2008 15:27:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37896
 SAMPLE: %CL
 Vial number: 20
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	35.906	27.956	Fluoride
2	4.05	15.922	26.668	Chloride
3	5.29	0.119	-0.446	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.64	27.588	18.228	Nitrate
6	9.47	11.858	21.751	Sulfate
6	12.00	91.394	95.049	

np + 1/10
CM
7/9/08

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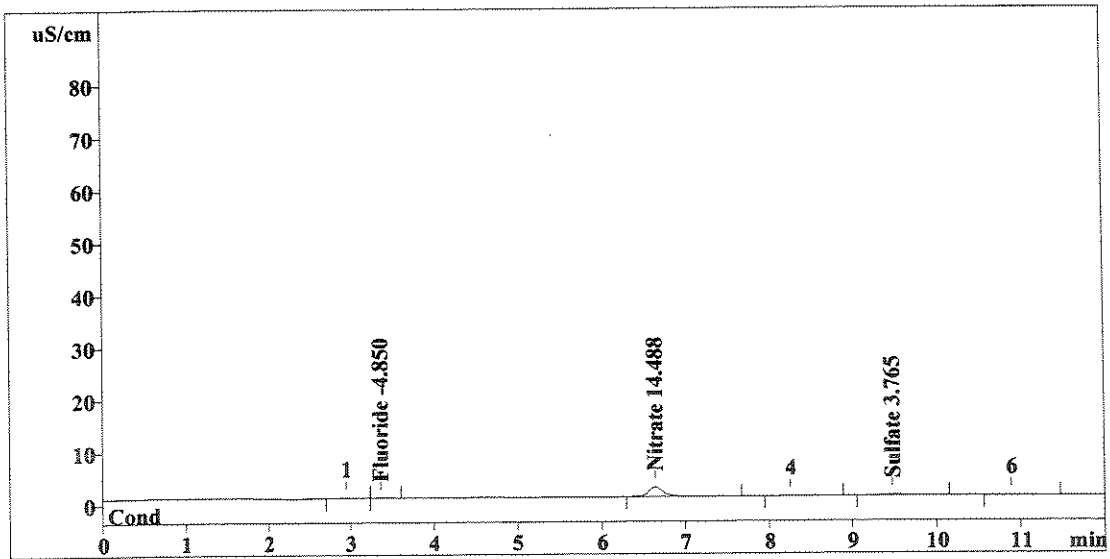
Method 300.0/9056

Report date: 7/8/2008 15:41:51
 Printed by: User
 Ident: 1110614A
 Analysis from: 7/8/2008 15:29:53
 File: S7081529.CHW

Last save: 7/8/2008 15:41:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37897
 SAMPLE: %CL
 Vial number: 21
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.185	-4.850	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	6.64	21.369	14.488	Nitrate
6	9.48	2.937	3.765	Sulfate
<hr/>				
6	12.00	24.491	23.103	

not str.

7/8/08

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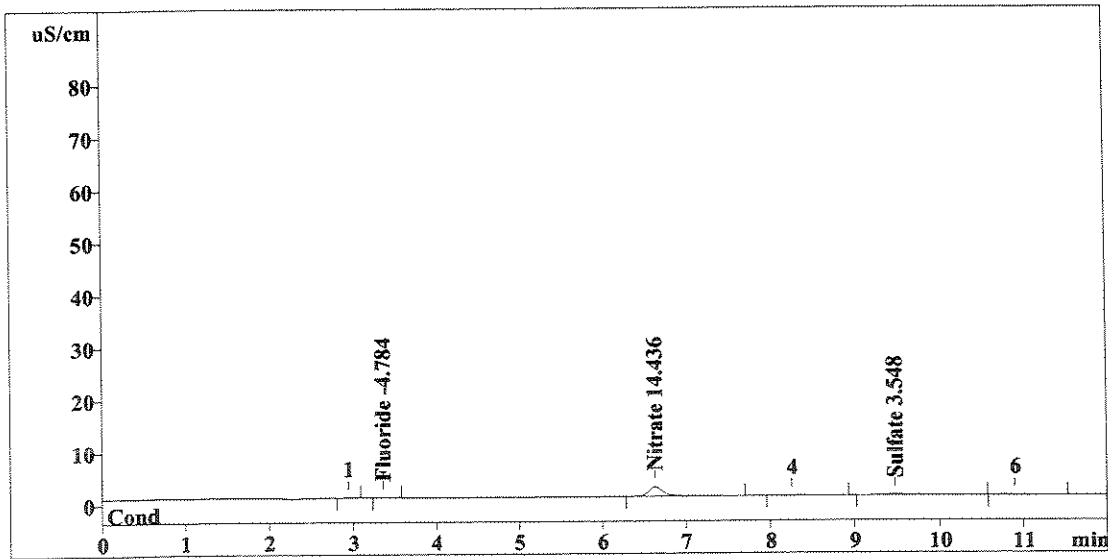
Method 300.0/9056

Report date: 7/8/2008 15:55:57
 Printed by: User
 Ident: 1110614B
 Analysis from: 7/8/2008 15:43:59
 File: S7081543.CHW

Last save: 7/8/2008 15:55:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37898
 SAMPLE: %CL
 Vial number: 22
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.256	-4.784	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	6.63	21.281	14.436	Nitrate
6	9.48	2.829	3.548	Sulfate
<hr/>				
6	12.00	24.366	22.768	

mpt str.
W 7/9/08

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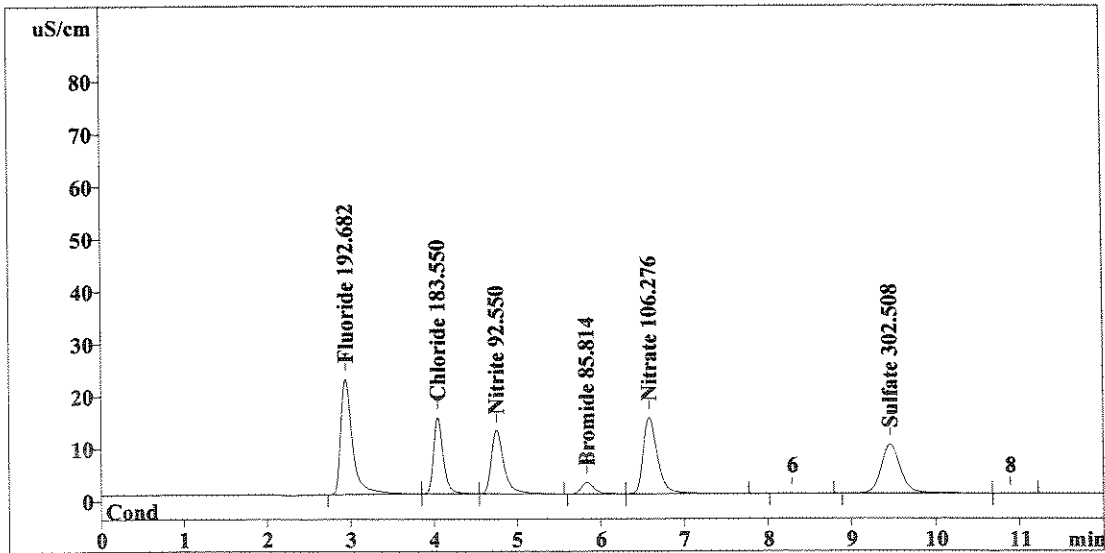
Method 300.0/9056

Report date: 7/8/2008 16:10:03
 Printed by: User
 Ident: 1110614A SPK
 Analysis from: 7/8/2008 15:58:05
 File: S7081558.CHW

Last save: 7/8/2008 16:10:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37899
 SAMPLE: %CL
 Vial number: 23
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	215.267	192.682	Fluoride
2	4.05	118.538	183.550	Chloride
3	4.76	126.473	92.550	Nitrite
4	5.84	23.583	85.814	Bromide
5	6.59	174.033	106.276	Nitrate
6	9.46	151.112	302.508	Sulfate
6	12.00	809.006	963.380	

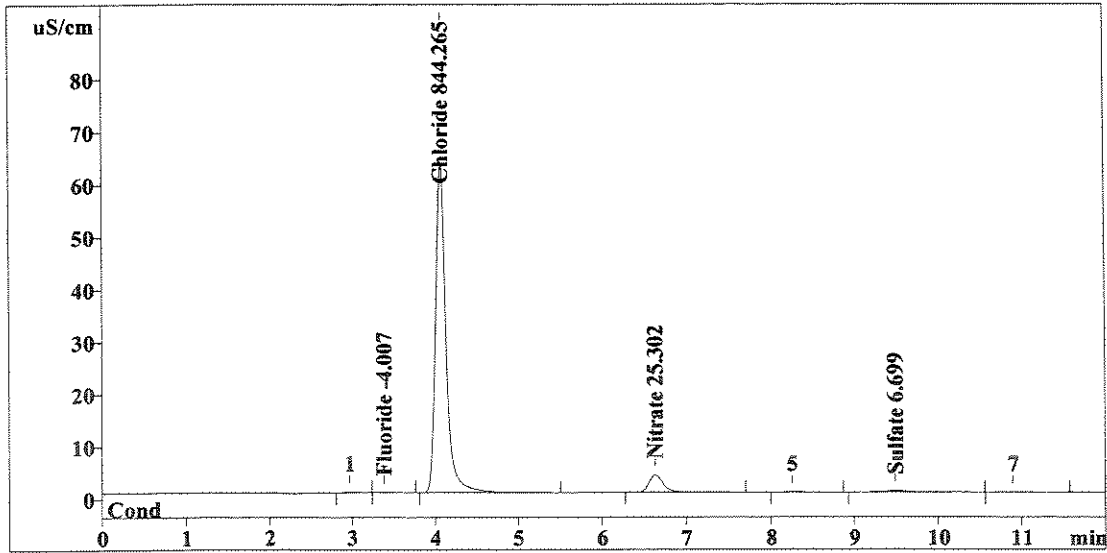
This report has been created by IC Net
 METROHM LTD

Report date: 7/8/2008 16:24:09
 Printed by: User
 Ident: 1110602A
 Analysis from: 7/8/2008 16:12:11
 File: S7081612.CHW

Last save: 7/8/2008 16:24:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37900
 SAMPLE: %CL
 Vial number: 24
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	1.102	-4.007	Fluoride
2	4.06	550.709	844.265	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.63	39.355	25.302	Nitrate
6	9.50	4.392	6.699	Sulfate
6	12.00	595.558	880.274	

not 1/200
7/9/08

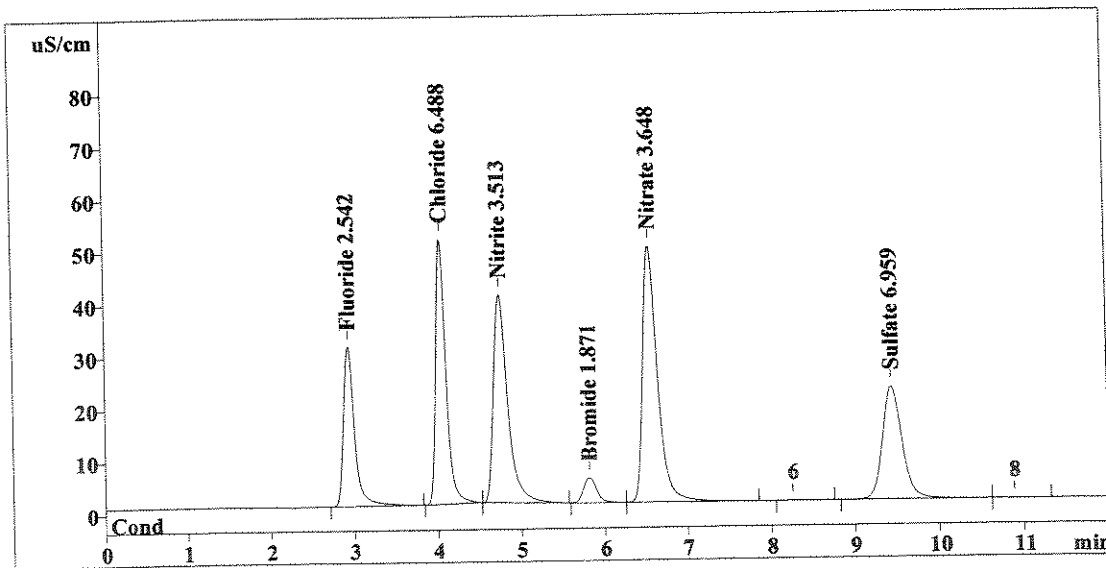
This report has been created by IC Net
 METROHM LTD

Report date: 7/8/2008 16:38:14
 Printed by: User
 Ident: CCV
 Analysis from: 7/8/2008 16:26:16
 File: S7081626.CHW

Last save: 7/8/2008 16:38:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37901
 SAMPLE:
 Vial number: 25
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	282.242	2.542	Fluoride
2	4.05	422.875	6.488	Chloride
3	4.75	478.004	3.513	Nitrite
4	5.81	52.210	1.871	Bromide
5	6.55	604.028	3.648	Nitrate
6	9.45	346.240	6.959	Sulfate
6	12.00	2185.598	25.021	

Handwritten notes: "OUT HIGH" with an arrow pointing to the Bromide peak; "OK" with an arrow pointing to the Nitrate peak; "CCT/9/08" written below the table.

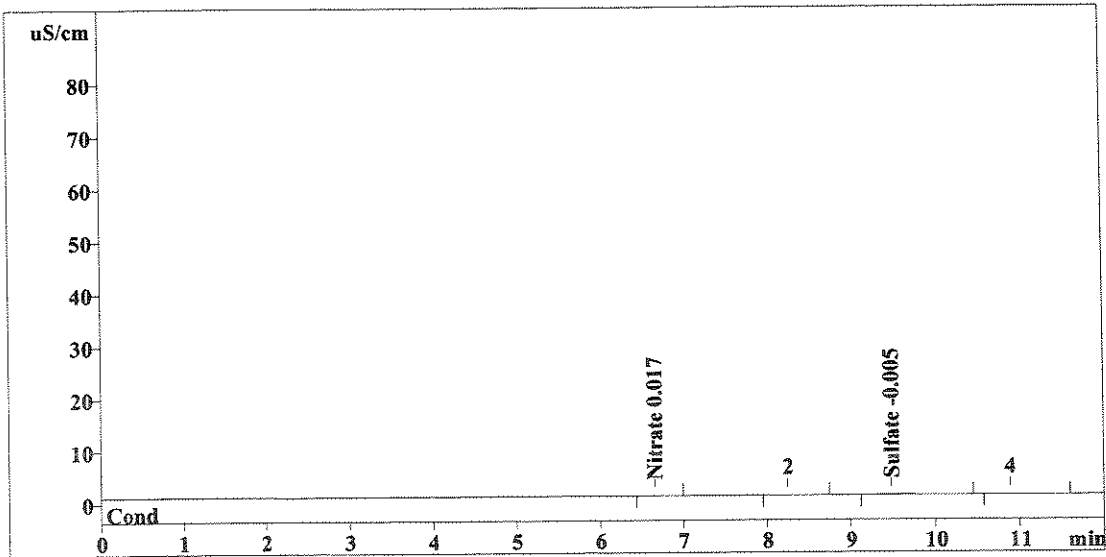
This report has been created by IC Net
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Report date: 7/8/2008 16:52:20
 Printed by: User
 Ident: CCB
 Analysis from: 7/8/2008 16:40:22
 File: S7081640.CHW

Last save: 7/8/2008 16:52:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37902
 SAMPLE:
 Vial number: 26
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



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	6.66	0.082	0.017	Nitrate
6	9.49	0.804	-0.005	Sulfate
6	12.00	0.886	0.022	

OK
 ↓
7/9/08

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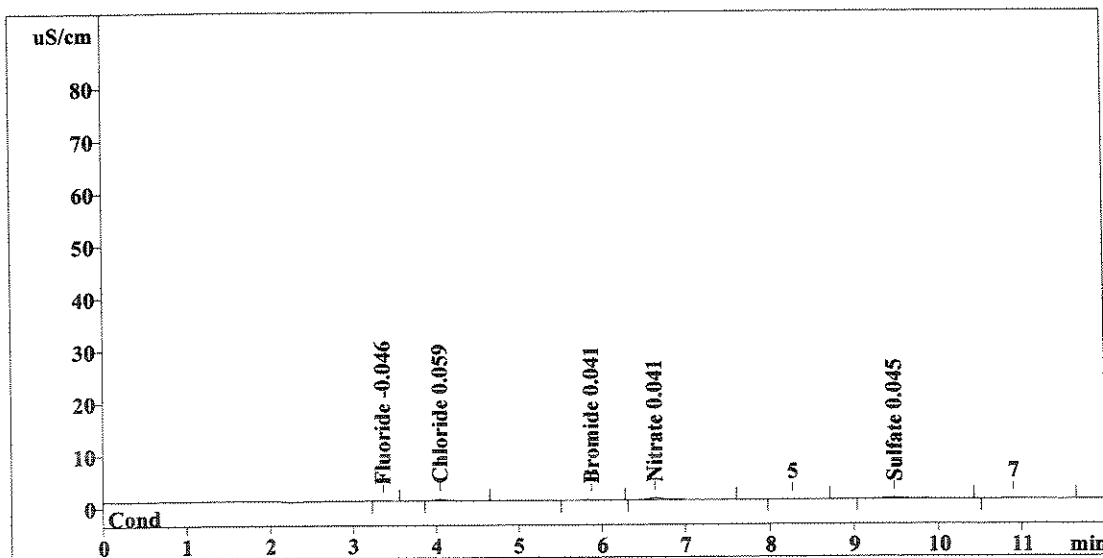
Method 300.0/9056

Report date: 7/8/2008 17:06:26
 Printed by: User
 Ident: METHOD BLANK 7/2
 Analysis from: 7/8/2008 16:54:28
 File: S7081654.CHW

Last save: 7/8/2008 17:06:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37903
 SAMPLE: CNNS
 Vial number: 27
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.453	-0.046	Fluoride
2	4.05	2.332	0.059	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	0.469	0.041	Bromide
5	6.64	4.063	0.041	Nitrate
6	9.48	3.303	0.045	Sulfate
6	12.00	10.620	0.231	

25g → 250ml

7/9/08

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 Rochester, NY 14609

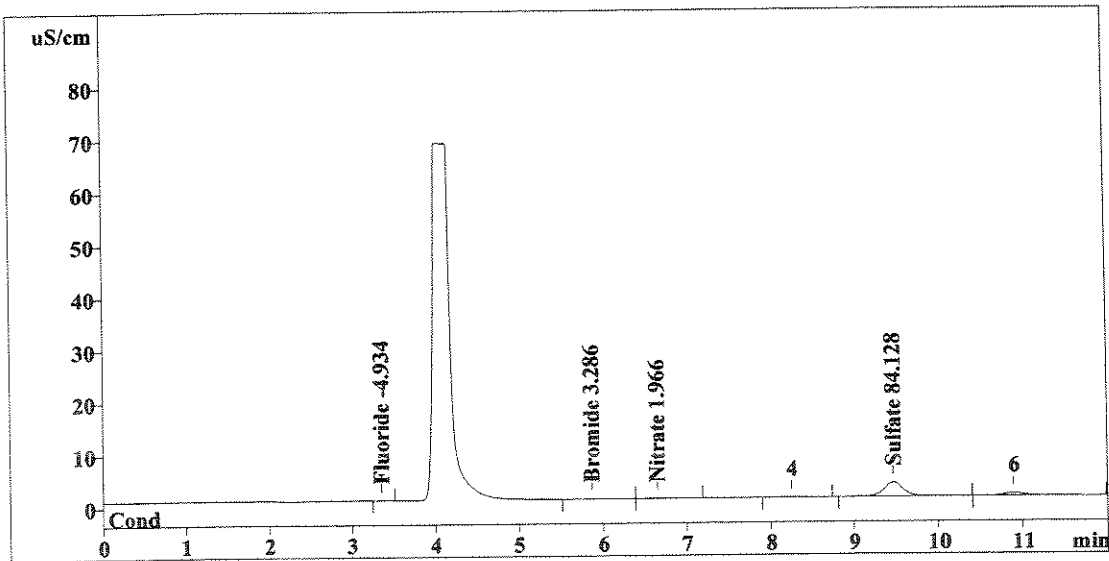
Method 300.0/9056

Report date: 7/8/2008 17:20:33
 Printed by: User
 Ident: 1114366
 Analysis from: 7/8/2008 17:08:35
 File: S7081708.CHW

Last save: 7/8/2008 17:20:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37904
 SAMPLE: NO2
 Vial number: 28
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.093	-4.934	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	0.251	3.286	Bromide
5	6.65	0.541	1.966	Nitrate
6	9.47	42.796	84.128	Sulfate
<hr/>				
6	12.00	43.681	94.314	

25g → 250ml

7/9/08

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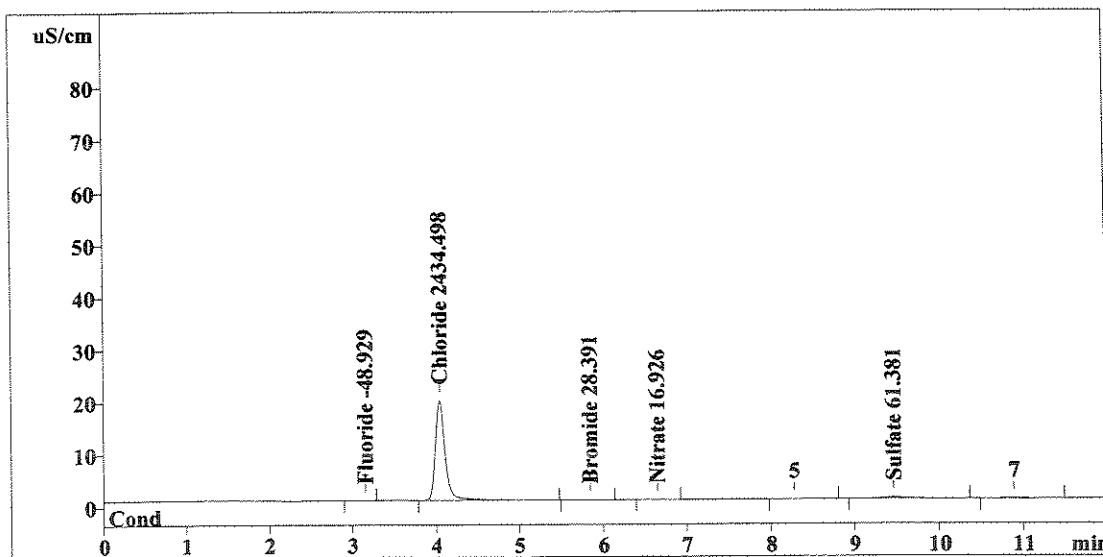
Method 300.0/9056

Report date: 7/8/2008 17:34:39
 Printed by: User
 Ident: 1114366
 Analysis from: 7/8/2008 17:22:41
 File: S7081722.CHW

Last save: 7/8/2008 17:34:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37905
 SAMPLE: S
 Vial number: 29
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.16	0.138	-48.929	Fluoride
2	4.04	157.718	2434.498	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.82	0.124	28.391	Bromide
5	6.65	0.086	16.926	Nitrate
6	9.47	4.114	61.381	Sulfate
6	12.00	162.181	2590.125	

25g → 250ml

OK

apt 1/20

7/9/08

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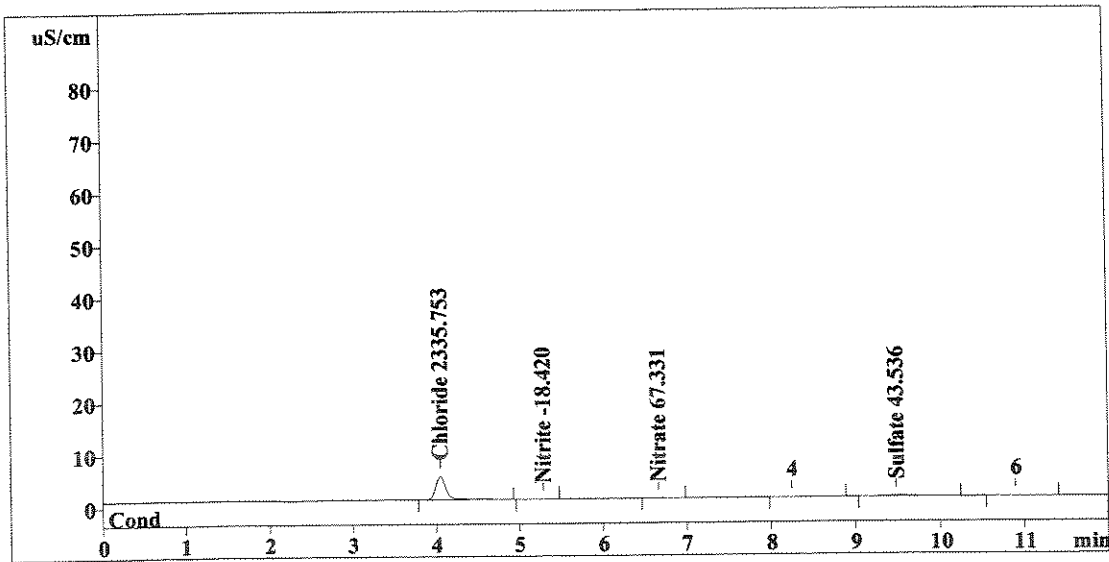
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 17:48:45
 Printed by: User
 Ident: 1114366
 Analysis from: 7/8/2008 17:36:47
 File: S7081736.CHW

Method 300.0/9056

Last save: 7/8/2008 17:48:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37906
 SAMPLE: C
 Vial number: 30
 Volume: 1.0 µL
 Dilution: 4000.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



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	36.674	2335.753	Chloride
3	5.28	0.099	-18.420	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.66	0.071	67.331	Nitrate
6	9.48	1.610	43.536	Sulfate
6	12.00	38.453	2465.039	

Handwritten notes:
 - Next to 2335.753: *report 1/1000*
 - Next to -18.420: *report 1/1000*
 - Next to 2465.039: *7/9/08*
 - On the right side: *25g → 250ml*

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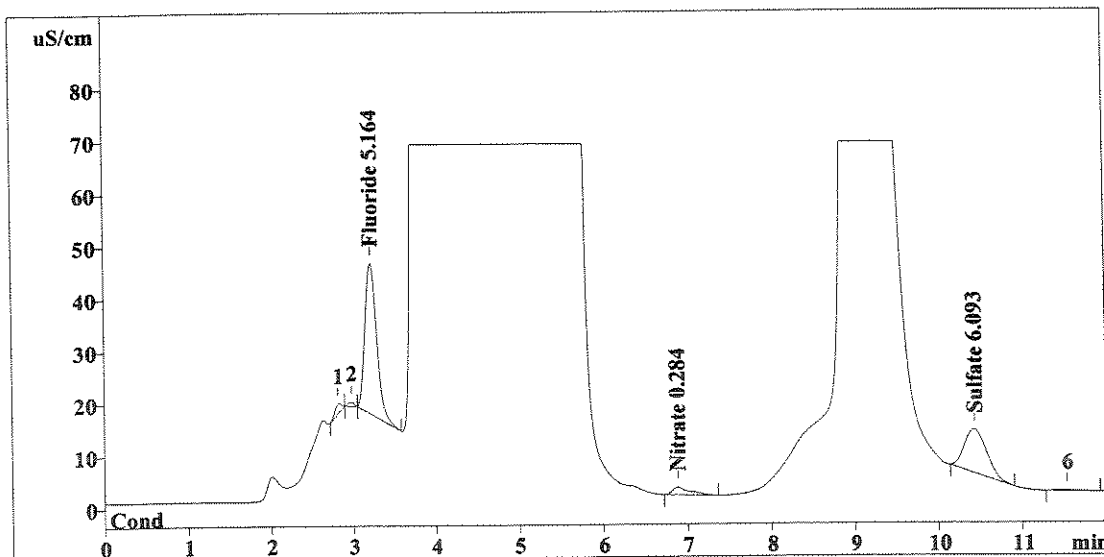
Method 300.0/9056

Report date: 7/8/2008 18:02:51
 Printed by: User
 Ident: 1114376
 Analysis from: 7/8/2008 17:50:53
 File: S7081750.CHW

Last save: 7/8/2008 18:02:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37907
 SAMPLE: NO3
 Vial number: 31
 Volume: 1.0 µL
 Dilution: 2.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.21	286.624	5.164	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	6.88	20.921	0.284	Nitrate
6	10.44	152.183	6.093	Sulfate
6	12.00	459.728	11.542	

255 → 250ml

Rpt @ 1/20

7/9/08

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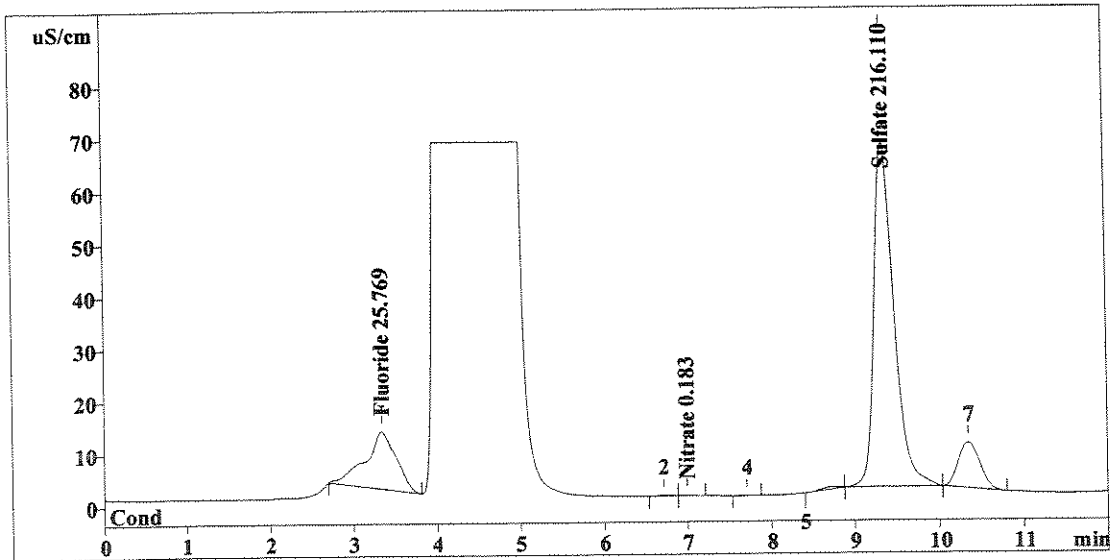
Method 300.0/9056

Report date: 7/8/2008 18:16:57
 Printed by: User
 IDent: 1114376
 Analysis from: 7/8/2008 18:04:59
 File: S7081804.CHW

Last save: 7/8/2008 18:16:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37908
 SAMPLE: S
 Vial number: 32
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	286.046	25.769	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	7.00	0.321	0.183	Nitrate
6	9.36	1072.962	216.110	Sulfate
<hr/>				
6	12.00	1359.329	242.062	

25g → 250ml

*upt 1/100
 7/9/08*

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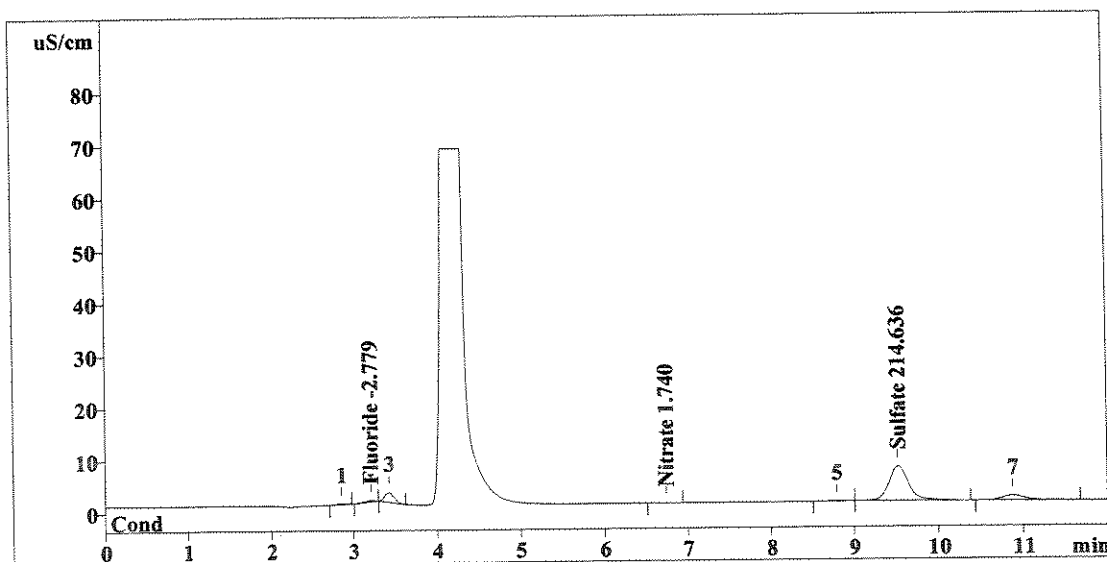
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 18:31:03
 Printed by: User
 Ident: 1114376
 Analysis from: 7/8/2008 18:19:05
 File: S7081819.CHW

Method 300.0/9056

Last save: 7/8/2008 18:31:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37909
 SAMPLE: NO2
 Vial number: 33
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.21	2.440	-2.779	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	0.165	1.740	Nitrate
6	9.53	107.528	214.636	Sulfate
6	12.00	110.133	219.155	

25g → 250ml

7/9/08

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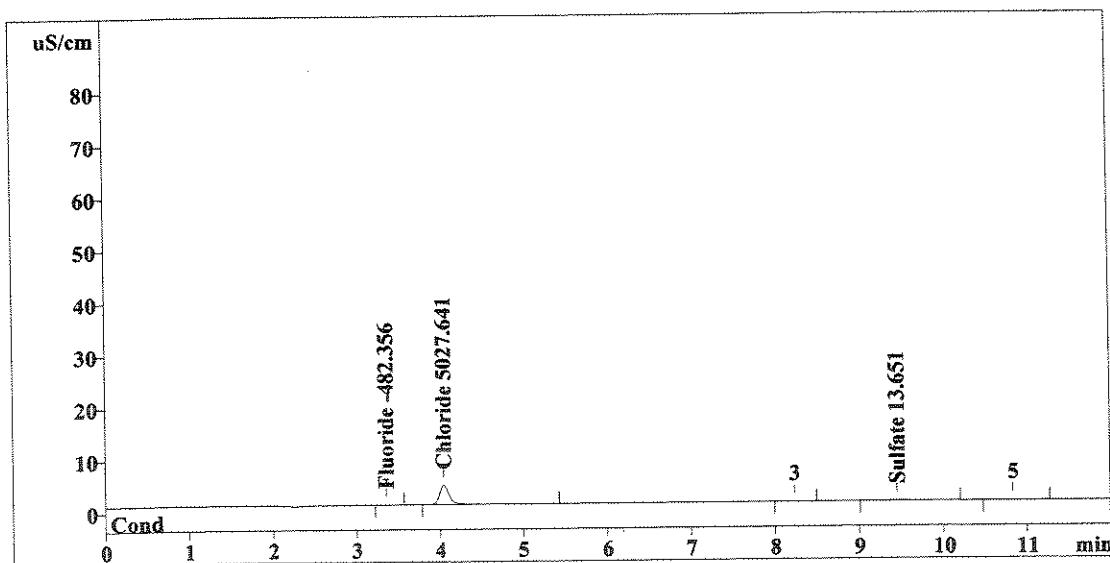
Method 300.0/9056

Report date: 7/8/2008 18:45:08
 Printed by: User
 Ident: 1114376
 Analysis from: 7/8/2008 18:33:10
 File: S7081833.CHW

Last save: 7/8/2008 18:45:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37910
 SAMPLE: C
 Vial number: 34
 Volume: 1.0 µL
 Dilution: 10000.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.214	-482.356	Fluoride
2	4.04	31.364	5027.641	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	9.46	1.137	13.651	Sulfate
6	12.00	32.715	5523.648	

255 → 250 ml

7/9/08

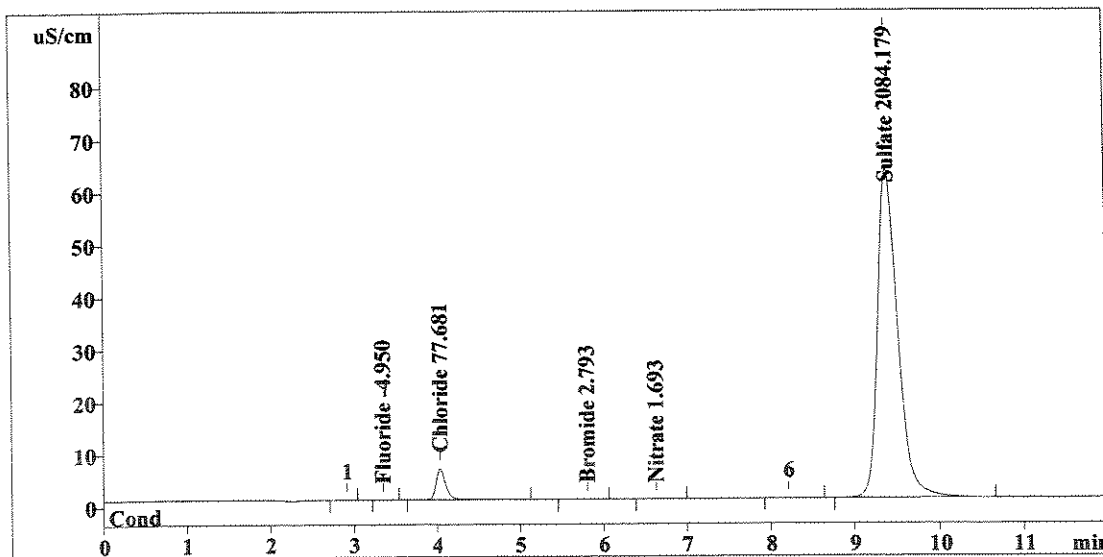
This report has been created by IC Net
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Report date: 7/8/2008 18:59:14
 Printed by: User
 Ident: 1114380
 Analysis from: 7/8/2008 18:47:16
 File: S7081847.CHW

Last save: 7/8/2008 18:59:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37911
 SAMPLE: CNNS
 Vial number: 35
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.075	-4.950	Fluoride
2	4.04	49.289	77.681	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.80	0.111	2.793	Bromide
5	6.64	0.086	1.693	Nitrate
6	9.40	1034.809	2084.179	Sulfate
6	12.00	1084.371	2171.297	

255 → 250

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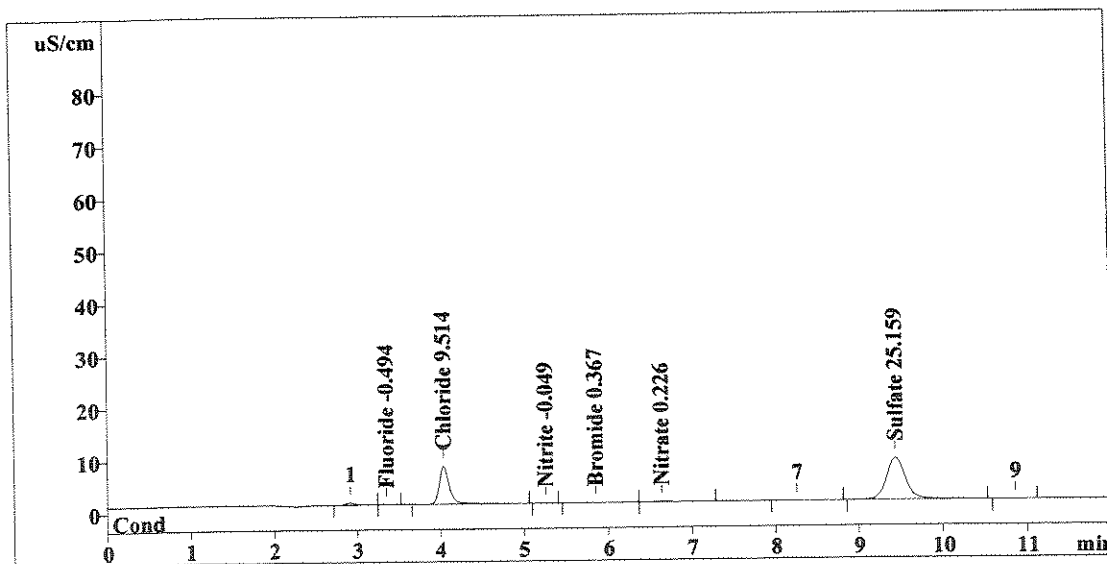
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 19:13:20
 Printed by: User
 Ident: 1114382
 Analysis from: 7/8/2008 19:01:22
 File: S7081901.CHW

Method 300.0/9056

Last save: 7/8/2008 19:13:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37912
 SAMPLE: CS
 Vial number: 36
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.087	-0.494	Fluoride
2	4.04	60.711	9.514	Chloride
3	5.26	0.063	-0.049	Nitrite
4	5.85	0.360	0.367	Bromide
5	6.64	1.026	0.226	Nitrate
6	9.44	125.859	25.159	Sulfate
<hr/>				
6	12.00	188.107	35.810	

25g → 250ml

*OK
7/9/08*

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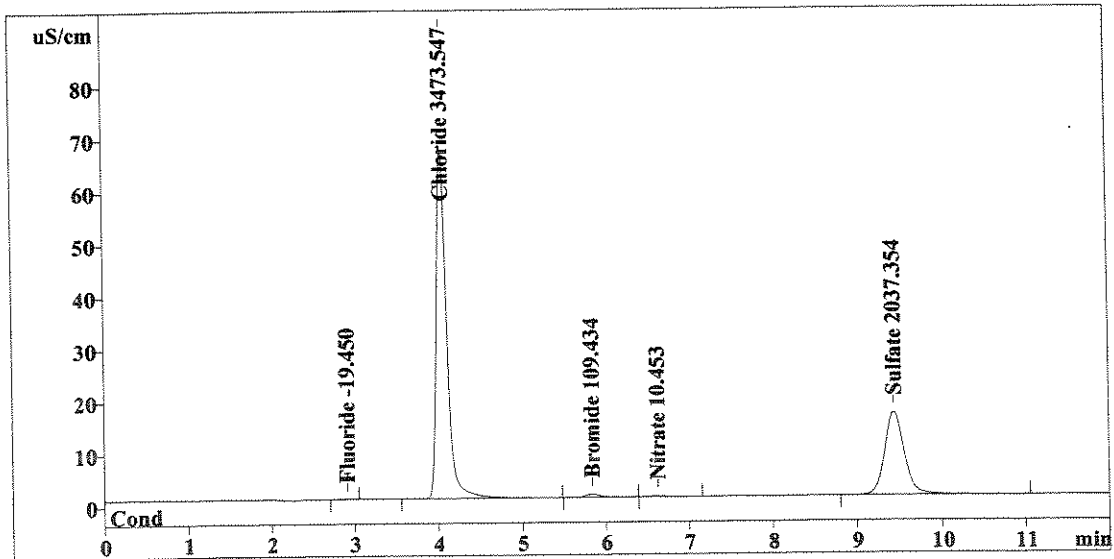
Method 300.0/9056

Report date: 7/8/2008 19:27:27
 Printed by: User
 Ident: 1111265
 Analysis from: 7/8/2008 19:15:29
 File: S7081915.CHW

Last save: 7/8/2008 19:27:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37913
 SAMPLE: CS
 Vial number: 37
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.171	-19.450	Fluoride
2	4.05	566.486	3473.547	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	7.057	109.434	Bromide
5	6.63	1.617	10.453	Nitrate
6	9.44	253.698	2037.354	Sulfate
<hr/>				
6	12.00	829.030	5650.238	

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Handwritten notes:
 SO₄²⁻
 Not needed
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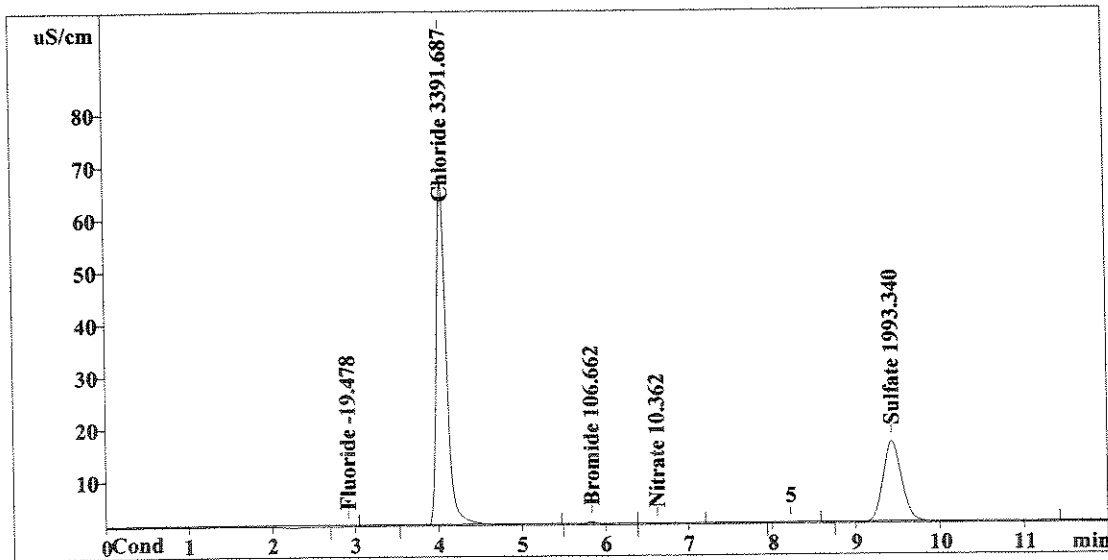
Method 300.0/9056

Report date: 7/8/2008 19:41:33
 Printed by: User
 Ident: 1111265 DUP
 Analysis from: 7/8/2008 19:29:35
 File: S7081929.CHW

Last save: 7/8/2008 19:41:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37914
 SAMPLE: CS
 Vial number: 38
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.164	-19.478	Fluoride
2	4.05	553.100	3391.687	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	6.861	106.662	Bromide
5	6.62	1.580	10.362	Nitrate
6	9.44	248.241	1993.340	Sulfate
<hr/>				
6	12.00	809.945	5521.529	

Handwritten signature and date: 7/9/08

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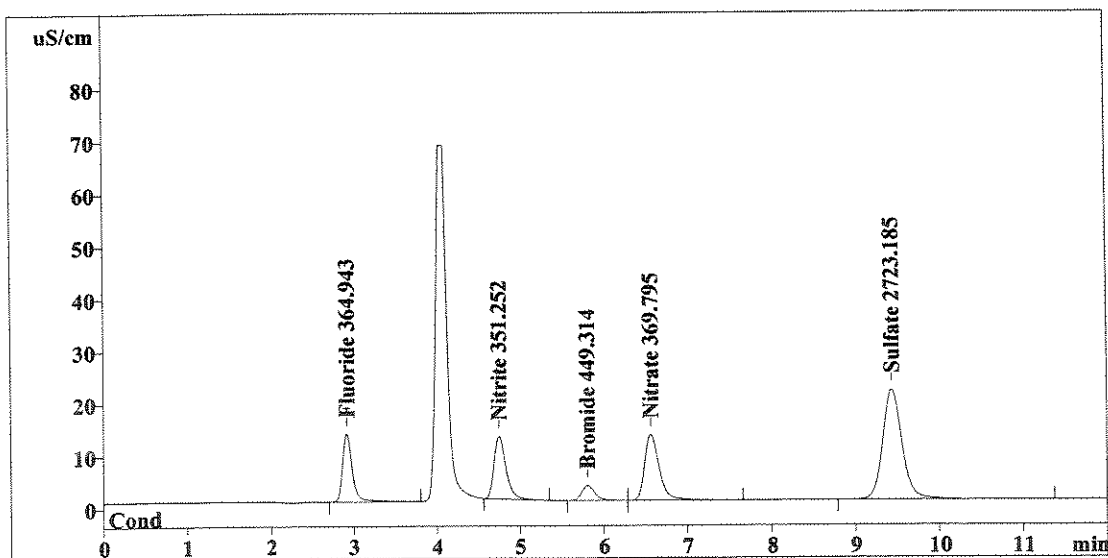
Method 300.0/9056

Report date: 7/8/2008 19:55:39
 Printed by: User
 Ident: 1111265 SPK
 Analysis from: 7/8/2008 19:43:40
 File: S7081943.CHW

Last save: 7/8/2008 19:55:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37915
 SAMPLE: CS
 Vial number: 39
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	104.807	364.943	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.75	120.037	351.252	Nitrite
4	5.81	31.079	449.314	Bromide
5	6.56	151.035	369.795	Nitrate
6	9.43	338.740	2723.185	Sulfate
<hr/>				
6	12.00	745.699	4258.489	

OK
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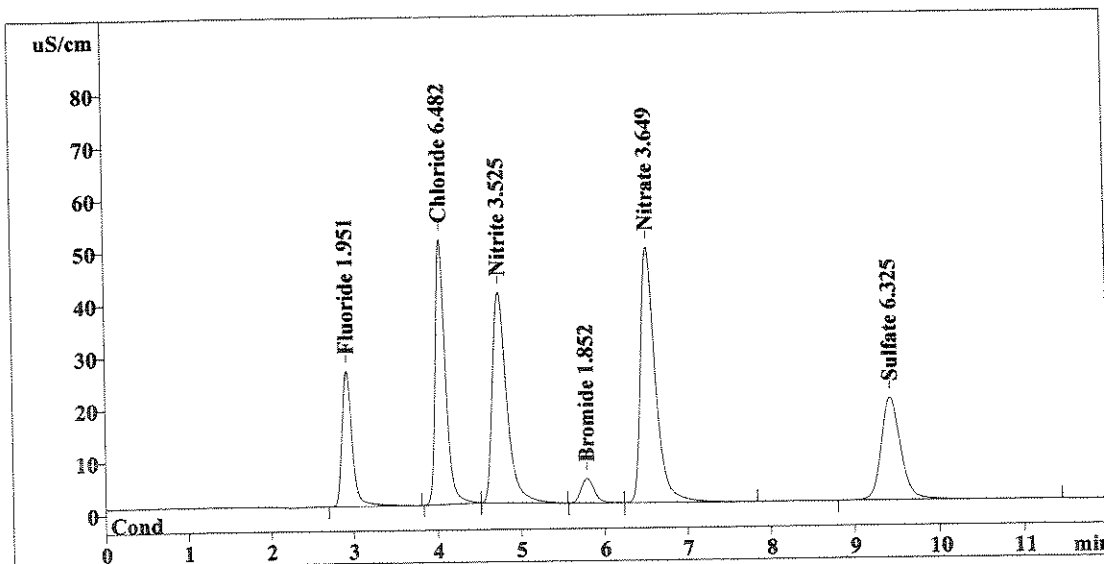
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 20:09:44
 Printed by: User
 Ident: CCV
 Analysis from: 7/8/2008 19:57:46
 File: S7081957.CHW

Method 300.0/9056

Last save: 7/8/2008 20:09:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37916
 SAMPLE:
 Vial number: 40
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	217.870	1.951	Fluoride
2	4.04	422.452	6.482	Chloride
3	4.74	479.629	3.525	Nitrite
4	5.79	51.675	1.852	Bromide
5	6.53	604.161	3.649	Nitrate
6	9.43	314.787	6.325	Sulfate
<hr/>				
6	12.00	2090.574	23.783	

OK
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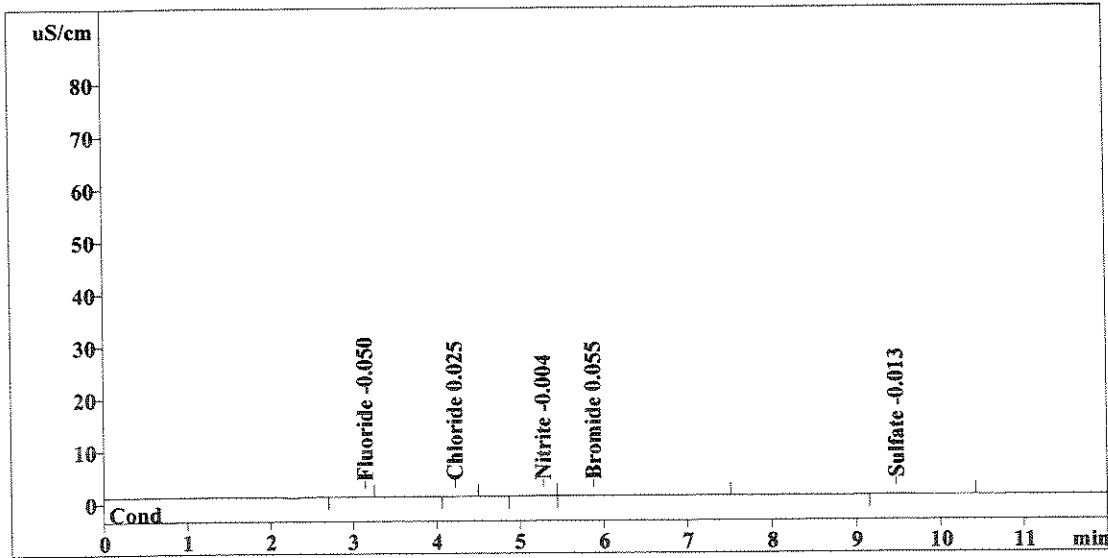
Method 300.0/9056

Report date: 7/8/2008 20:23:50
 Printed by: User
 Ident: CCB
 Analysis from: 7/8/2008 20:11:52
 File: S7082011.CHW

Last save: 7/8/2008 20:23:51

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37917
 SAMPLE:
 Vial number: 41
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.14	0.076	-0.050	Fluoride
2	4.22	0.086	0.025	Chloride
3	5.27	0.125	-0.004	Nitrite
4	5.87	0.884	0.055	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.48	0.448	-0.013	Sulfate
<hr/>				
6	12.00	1.619	0.146	

OK
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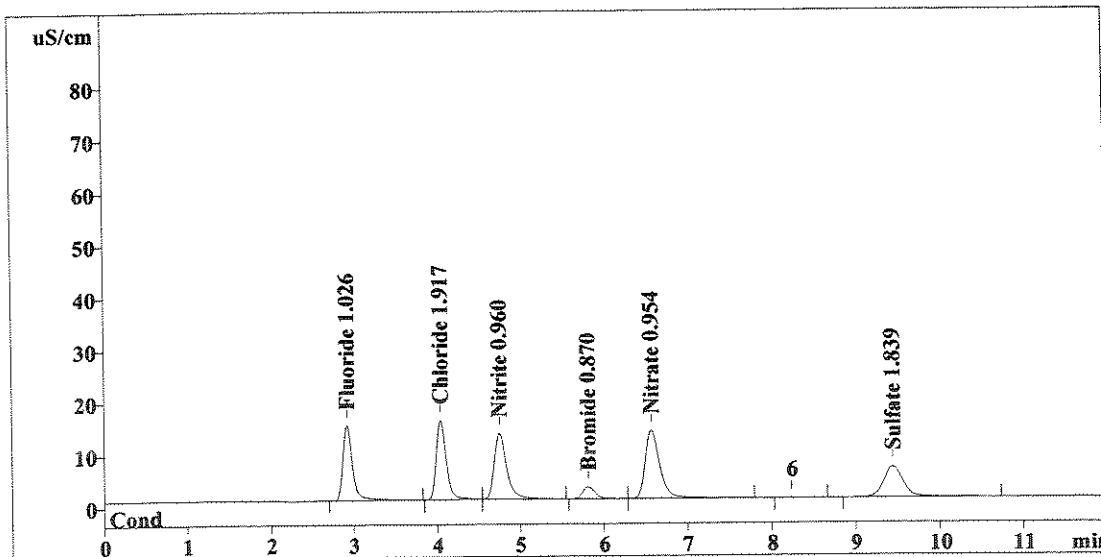
Method 300.0/9056

Report date: 7/8/2008 20:37:56
 Printed by: User
 Ident: LCS
 Analysis from: 7/8/2008 20:25:58
 File: S7082025.CHW

Last save: 7/8/2008 20:37:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37918
 SAMPLE:
 Vial number: 42
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	117.141	1.026	Fluoride
2	4.04	123.892	1.917	Chloride
3	4.75	131.146	0.960	Nitrite
4	5.82	23.920	0.870	Bromide
5	6.57	155.919	0.954	Nitrate
6	9.44	92.292	1.839	Sulfate
6	12.00	644.311	7.566	

OK
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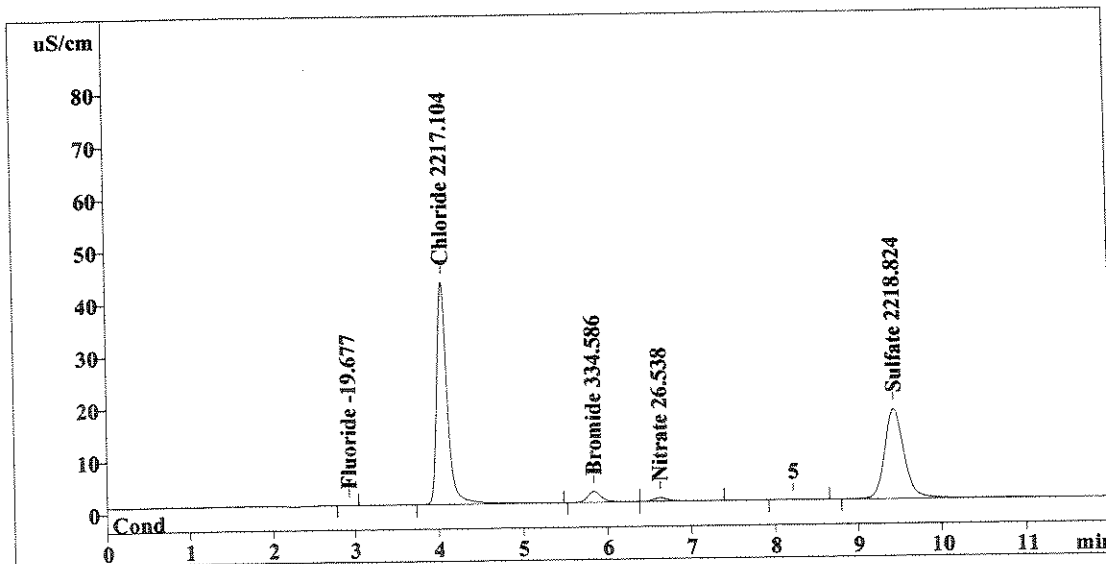
Method 300.0/9056

Report date: 7/8/2008 20:52:02
 Printed by: User
 Ident: 1111266
 Analysis from: 7/8/2008 20:40:04
 File: S7082040.CHW

Last save: 7/8/2008 20:52:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37919
 SAMPLE: CS
 Vial number: 43
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.109	-19.677	Fluoride
2	4.05	361.028	2217.104	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	22.970	334.586	Bromide
5	6.62	8.306	26.538	Nitrate
6	9.44	276.200	2218.824	Sulfate
<hr/>				
6	12.00	668.613	4816.729	

SM
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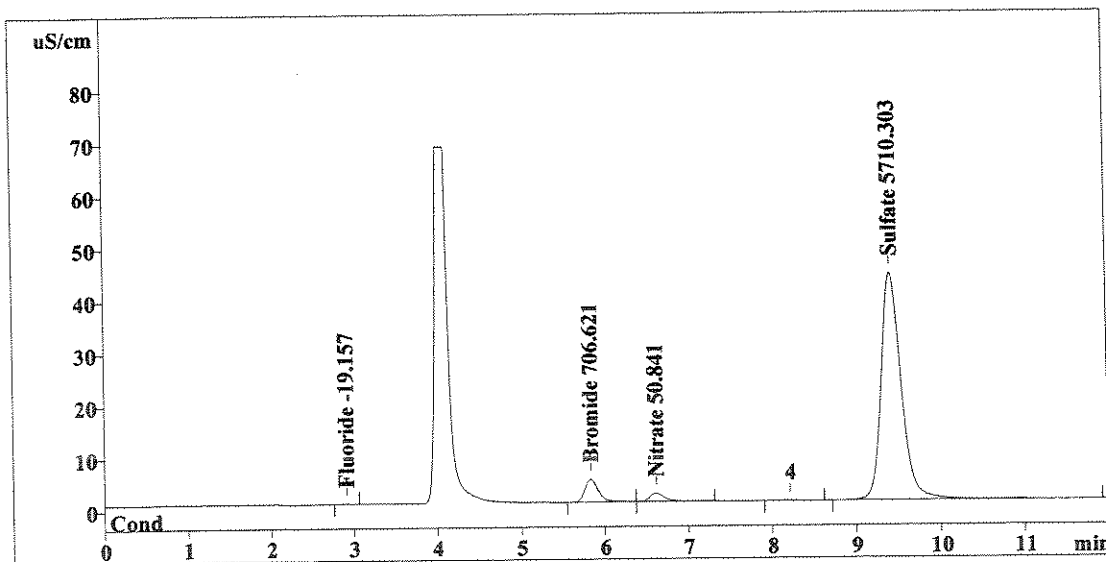
Method 300.0/9056

Report date: 7/8/2008 21:06:08
 Printed by: User
 Ident: 1111267
 Analysis from: 7/8/2008 20:54:10
 File: S7082054.CHW

Last save: 7/8/2008 21:06:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37920
 SAMPLE: CS
 Vial number: 44
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.251	-19.157	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.83	49.266	706.621	Bromide
5	6.61	18.411	50.841	Nitrate
6	9.42	709.138	5710.303	Sulfate
<hr/>				
6	12.00	777.065	6486.922	

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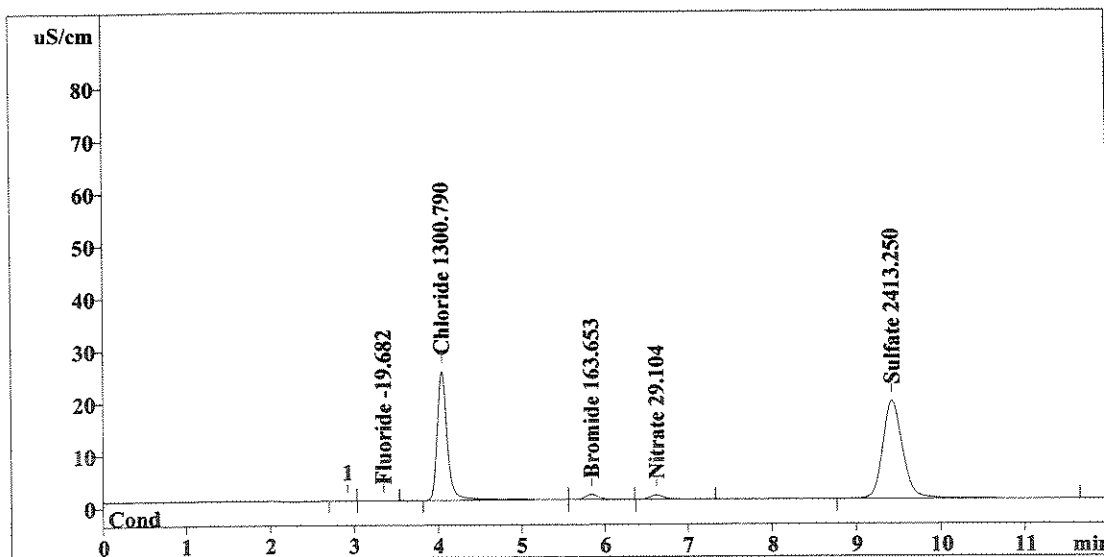
Method 300.0/9056

Report date: 7/8/2008 21:20:14
 Printed by: User
 Ident: 1111763
 Analysis from: 7/8/2008 21:08:16
 File: S7082108.CHW

Last save: 7/8/2008 21:20:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37921
 SAMPLE: CS
 Vial number: 45
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.108	-19.682	Fluoride
2	4.04	211.189	1300.790	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	10.889	163.653	Bromide
5	6.62	9.373	29.104	Nitrate
6	9.43	300.309	2413.250	Sulfate
<hr/>				
6	12.00	531.867	3926.480	

OK
OK
cm
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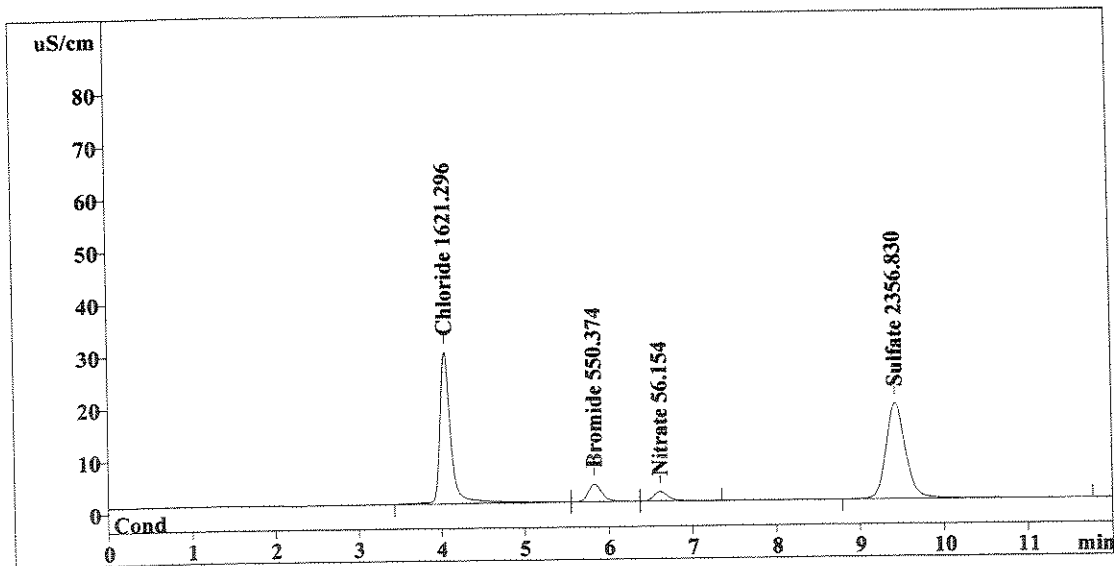
Method 300.0/9056

Report date: 7/8/2008 21:34:20
 Printed by: User
 Ident: 1111764
 Analysis from: 7/8/2008 21:22:22
 File: S7082122.CHW

Last save: 7/8/2008 21:34:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37922
 SAMPLE: CS
 Vial number: 46
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



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	263.599	1621.296	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.83	38.222	550.374	Bromide
5	6.62	20.620	56.154	Nitrate
6	9.43	293.313	2356.830	Sulfate
<hr/>				
6	12.00	615.754	4584.653	

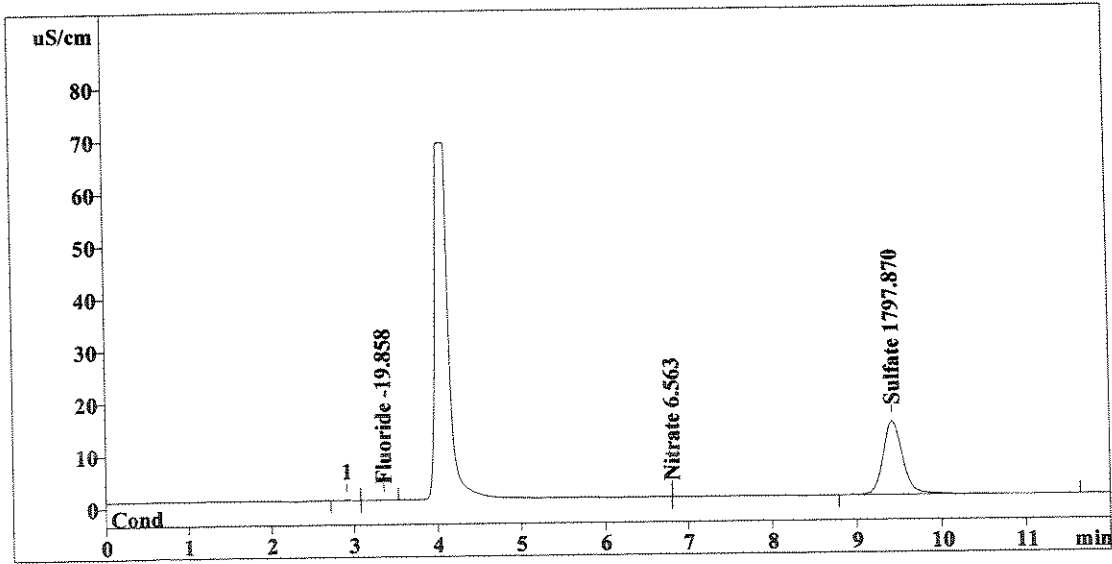
This report has been created by IC Net
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Report date: 7/8/2008 21:48:26
 Printed by: User
 Ident: 1111765
 Analysis from: 7/8/2008 21:36:28
 File: S7082136.CHW

Last save: 7/8/2008 21:48:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37923
 SAMPLE: CS
 Vial number: 47
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.060	-19.858	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	6.81	-0.000	6.563	Nitrate
6	9.43	224.003	1797.870	Sulfate
<hr/>				
6	12.00	224.063	1824.291	

Handwritten signature and date: 7/9/08

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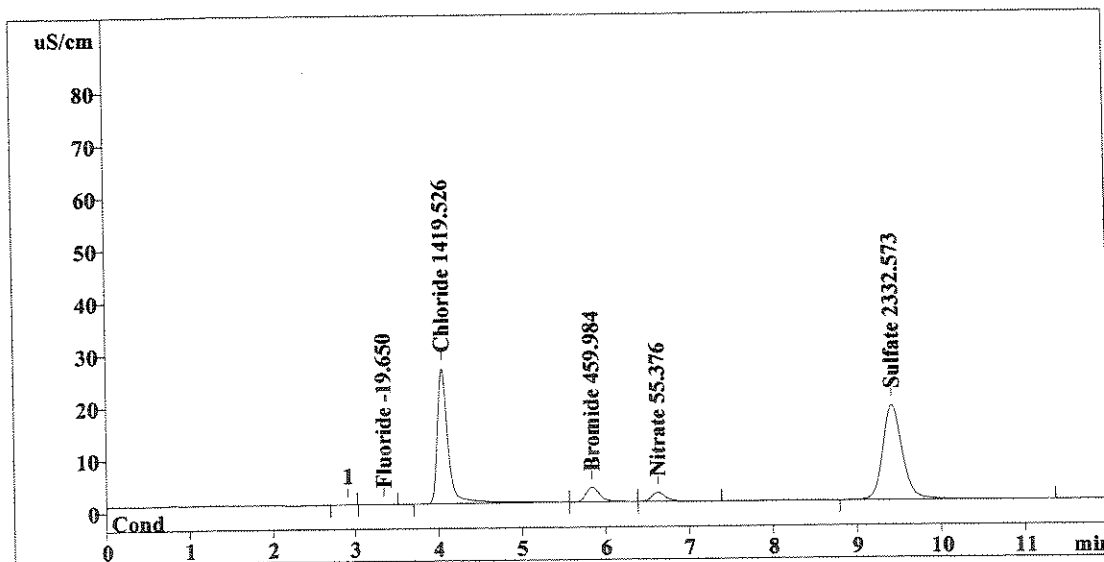
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 22:02:31
 Printed by: User
 Ident: 1112065
 Analysis from: 7/8/2008 21:50:33
 File: S7082150.CHW

Method 300.0/9056

Last save: 7/8/2008 22:02:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37924
 SAMPLE: CS
 Vial number: 48
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.117	-19.650	Fluoride
2	4.05	230.605	1419.526	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	31.833	459.984	Bromide
5	6.63	20.297	55.376	Nitrate
6	9.42	290.305	2332.573	Sulfate
6	12.00	573.156	4287.109	

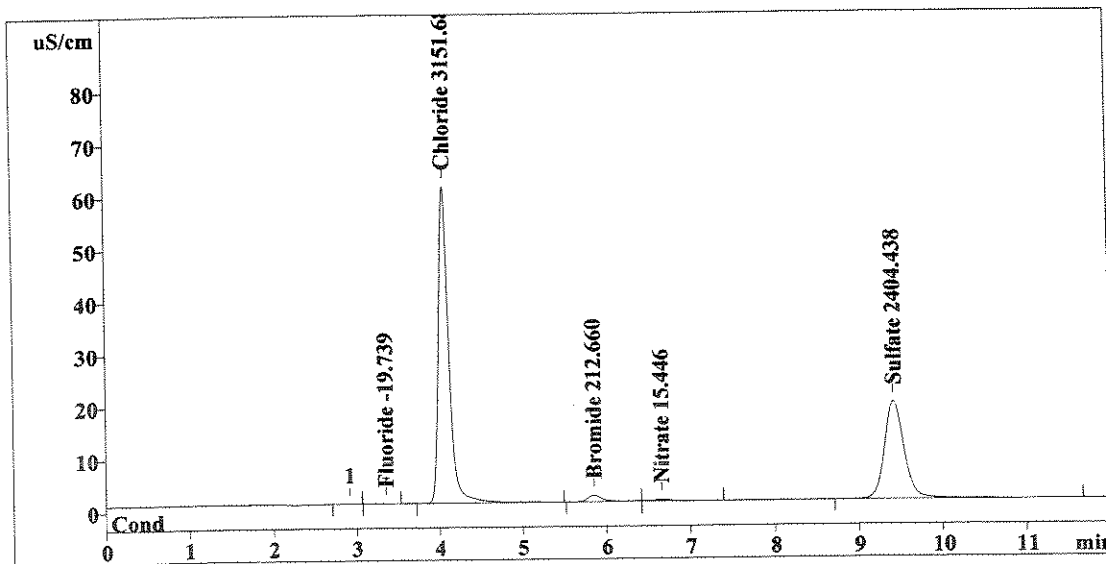
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Report date: 7/8/2008 22:16:39
 Printed by: User
 Ident: 1112066
 Analysis from: 7/8/2008 22:04:39
 File: S7082204.CHW

Last save: 7/8/2008 22:16:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37925
 SAMPLE: CS
 Vial number: 49
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.093	-19.739	Fluoride
2	4.06	513.854	3151.683	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.85	14.353	212.660	Bromide
5	6.66	3.693	15.446	Nitrate
6	9.42	299.216	2404.438	Sulfate
<hr/>				
6	12.00	831.208	5803.965	

OK
OK
CS
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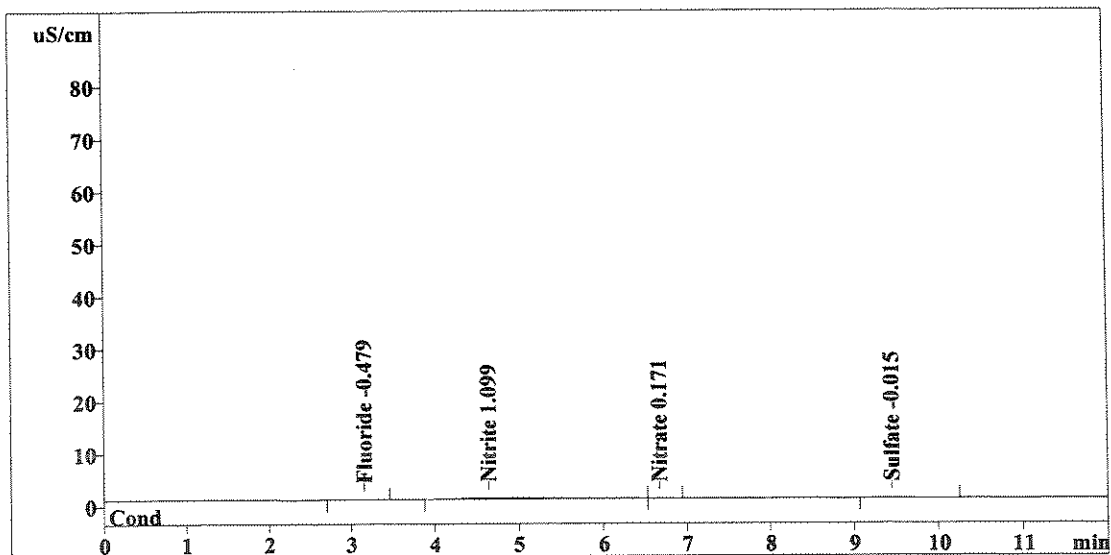
Method 300.0/9056

Report date: 7/8/2008 22:30:45
 Printed by: User
 Ident: 1112067
 Analysis from: 7/8/2008 22:18:47
 File: S7082218.CHW

Last save: 7/8/2008 22:30:45

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37926
 SAMPLE: CS
 Vial number: 50
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.16	0.251	-0.479	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.64	15.657	1.099	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.68	0.122	0.171	Nitrate
6	9.44	0.997	-0.015	Sulfate
6	12.00	17.027	1.764	

OK
OK
CS 7/9/08

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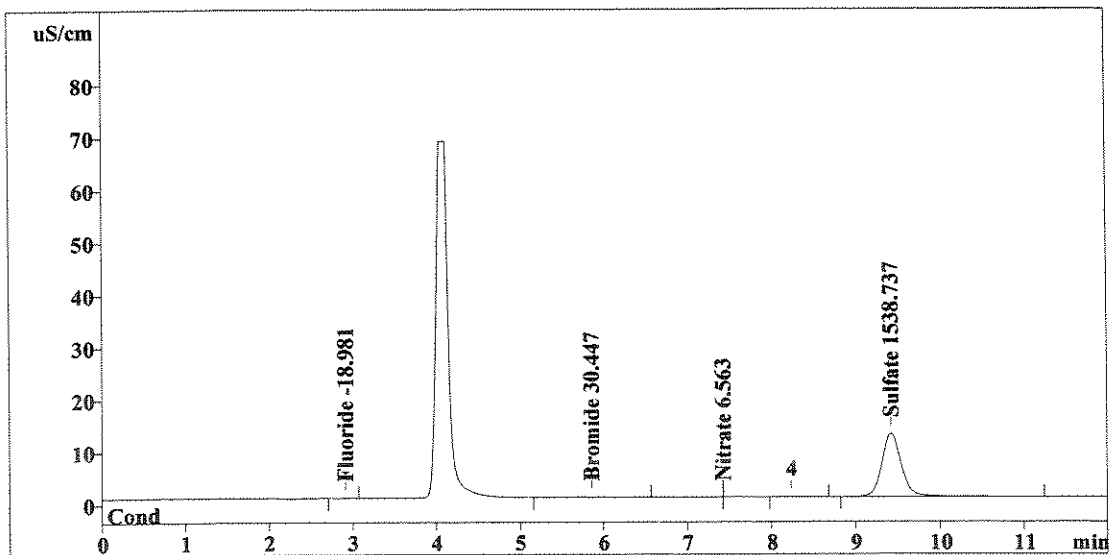
Method 300.0/9056

Report date: 7/8/2008 22:44:51
 Printed by: User
 Ident: 1112486
 Analysis from: 7/8/2008 22:32:53
 File: S7082232.CHW

Last save: 7/8/2008 22:44:51

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37927
 SAMPLE: CS
 Vial number: 51
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.299	-18.981	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.85	1.474	30.447	Bromide
5	7.42	-0.000	6.563	Nitrate
6	9.42	191.871	1538.737	Sulfate
6	12.00	193.643	1594.728	

Handwritten notes: 1/1000 next to row 2; OK next to row 6; signature and date 7/9/08 next to row 6.

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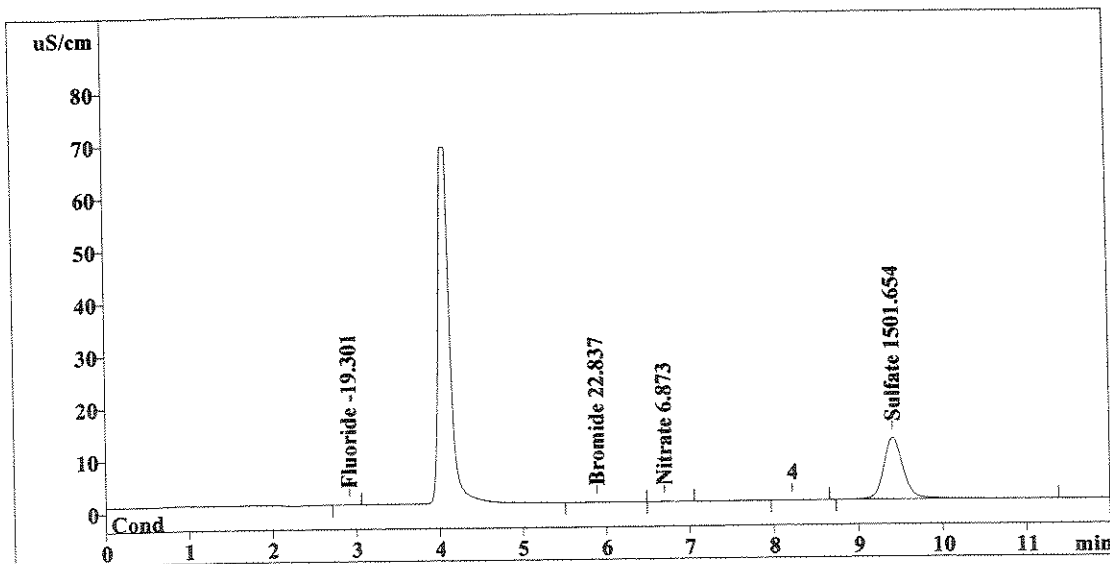
Method 300.0/9056

Report date: 7/8/2008 22:58:57
 Printed by: User
 Ident: 1112487
 Analysis from: 7/8/2008 22:46:59
 File: S7082246.CHW

Last save: 7/8/2008 22:58:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37928
 SAMPLE: CS
 Vial number: 52
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.212	-19.301	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	0.936	22.837	Bromide
5	6.70	0.129	6.873	Nitrate
6	9.42	187.272	1501.654	Sulfate
6	12.00	188.549	1550.666	

Handwritten signature and date: 7/9/08

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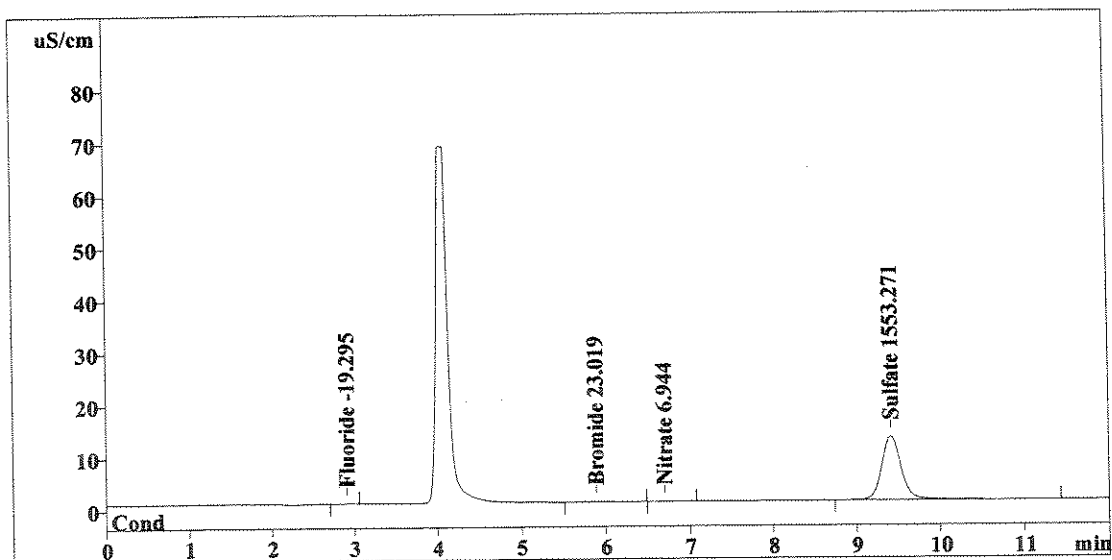
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 23:13:03
 Printed by: User
 Ident: 1112487 DUP
 Analysis from: 7/8/2008 23:01:05
 File: S7082301.CHW

Method 300.0/9056

Last save: 7/8/2008 23:13:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37929
 SAMPLE: CS
 Vial number: 53
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.213	-19.295	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	0.949	23.019	Bromide
5	6.70	0.158	6.944	Nitrate
6	9.41	193.673	1553.271	Sulfate
<hr/>				
6	12.00	194.993	1602.529	

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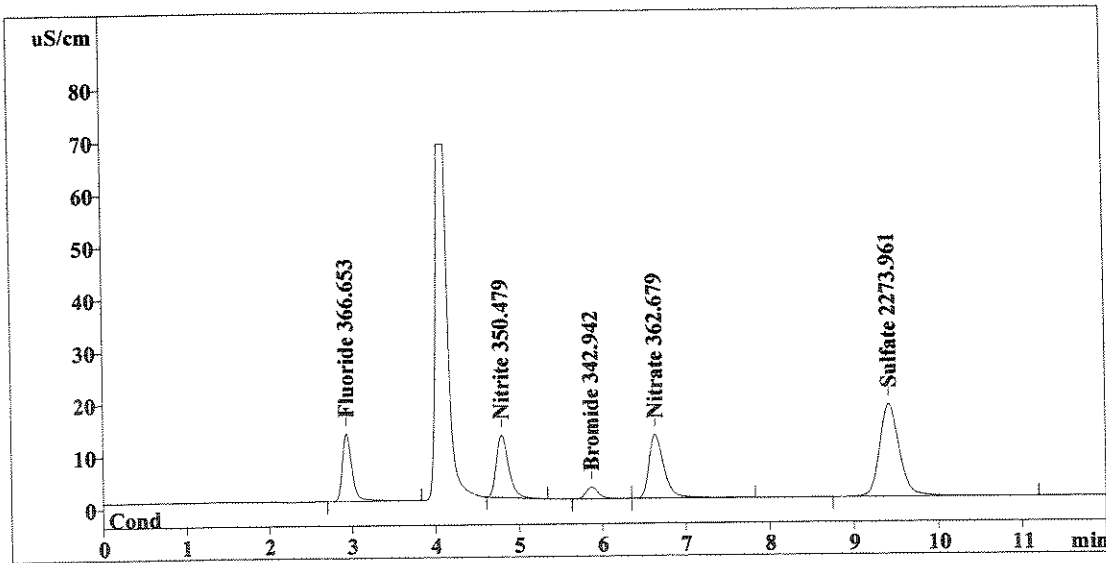
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 23:27:08
 Printed by: User
 Ident: 1112487 SPK
 Analysis from: 7/8/2008 23:15:10
 File: S7082315.CHW

Method 300.0/9056

Last save: 7/8/2008 23:27:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37930
 SAMPLE: CS
 Vial number: 54
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	105.273	366.653	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.79	119.774	350.479	Nitrite
4	5.87	23.561	342.942	Bromide
5	6.64	148.076	362.679	Nitrate
6	9.43	283.037	2273.961	Sulfate
<hr/>				
6	12.00	679.721	3696.715	

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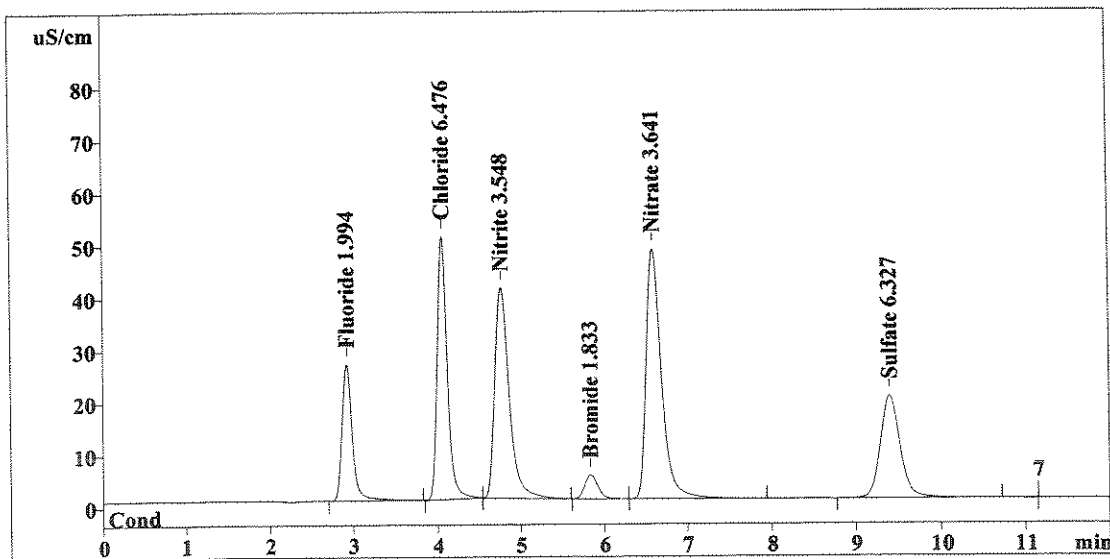
Method 300.0/9056

Report date: 7/8/2008 23:41:14
 Printed by: User
 Ident: CCV
 Analysis from: 7/8/2008 23:29:16
 File: S7082329.CHW

Last save: 7/8/2008 23:41:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37931
 SAMPLE:
 Vial number: 55
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	222.625	1.994	Fluoride
2	4.05	422.072	6.476	Chloride
3	4.77	482.824	3.548	Nitrite
4	5.84	51.155	1.833	Bromide
5	6.59	602.934	3.641	Nitrate
6	9.40	314.905	6.327	Sulfate
<hr/>				
6	12.00	2096.515	23.821	

OK
 ↓
CCV
 7/9/08

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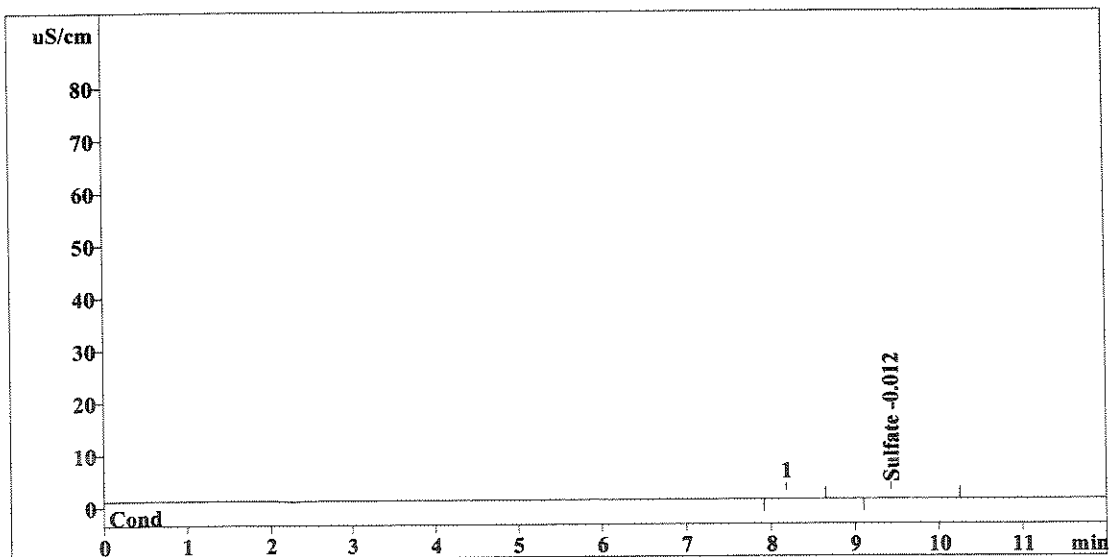
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/8/2008 23:55:20
 Printed by: User
 Ident: CCB
 Analysis from: 7/8/2008 23:43:22
 File: S7082343.CHW

Method 300.0/9056

Last save: 7/8/2008 23:55:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37932
 SAMPLE:
 Vial number: 56
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



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	9.44	0.470	-0.012	Sulfate
6	12.00	0.470	0.012	

OK
 ↓
 CCB
 7/9/08

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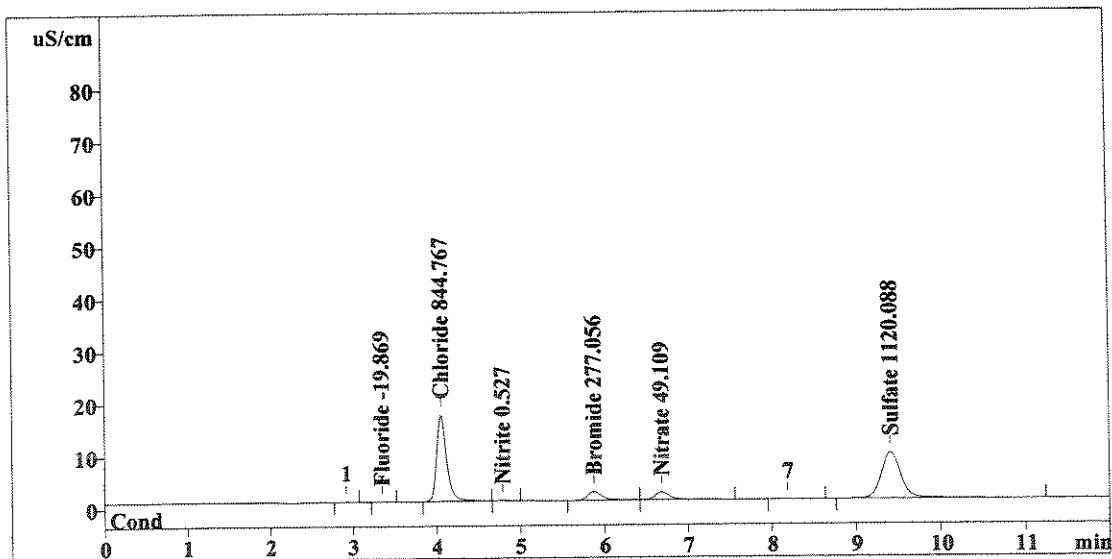
Method 300.0/9056

Report date: 7/9/2008 00:09:26
 Printed by: User
 Ident: 1112488
 Analysis from: 7/8/2008 23:57:28
 File: S7082357.CHW

Last save: 7/9/2008 00:09:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37933
 SAMPLE: CS
 Vial number: 57
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.057	-19.869	Fluoride
2	4.06	136.618	844.767	Chloride
3	4.79	0.904	0.527	Nitrite
4	5.88	18.904	277.056	Bromide
5	6.68	17.691	49.109	Nitrate
6	9.41	139.959	1120.088	Sulfate
<hr/>				
6	12.00	314.133	2311.417	

Handwritten signature and date: 7/9/08

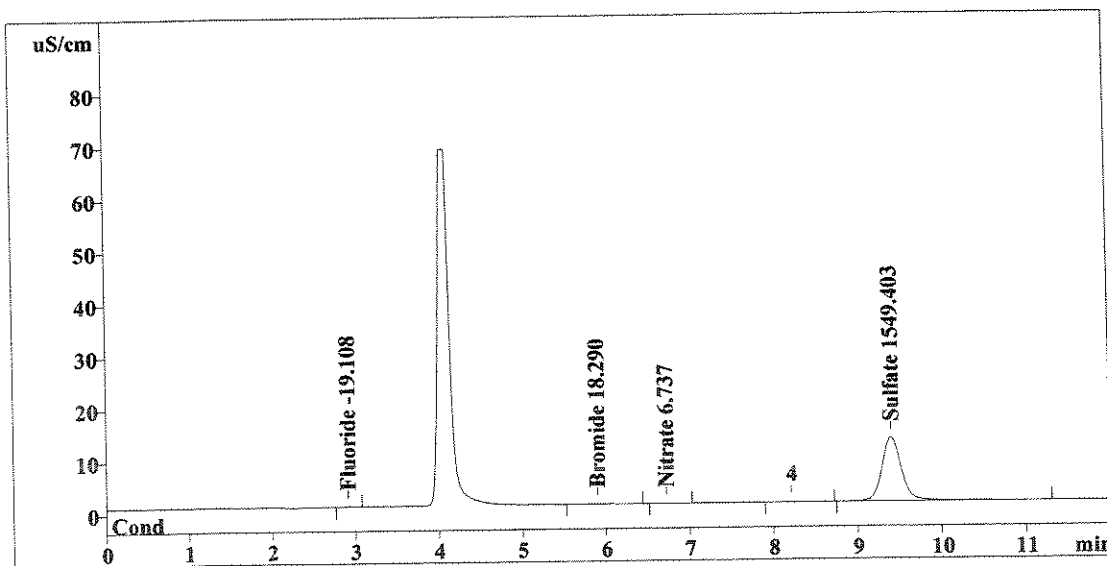
This report has been created by IC Net
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Report date: 7/9/2008 00:23:32
 Printed by: User
 Ident: 1112489
 Analysis from: 7/9/2008 00:11:34
 File: S7090011.CHW

Last save: 7/9/2008 00:23:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37934
 SAMPLE: CS
 Vial number: 58
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.264	-19.108	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	0.614	18.290	Bromide
5	6.72	0.072	6.737	Nitrate
6	9.40	193.193	1549.403	Sulfate
6	12.00	194.144	1593.538	

Handwritten notes: 1/1000, OK, 7/9/08

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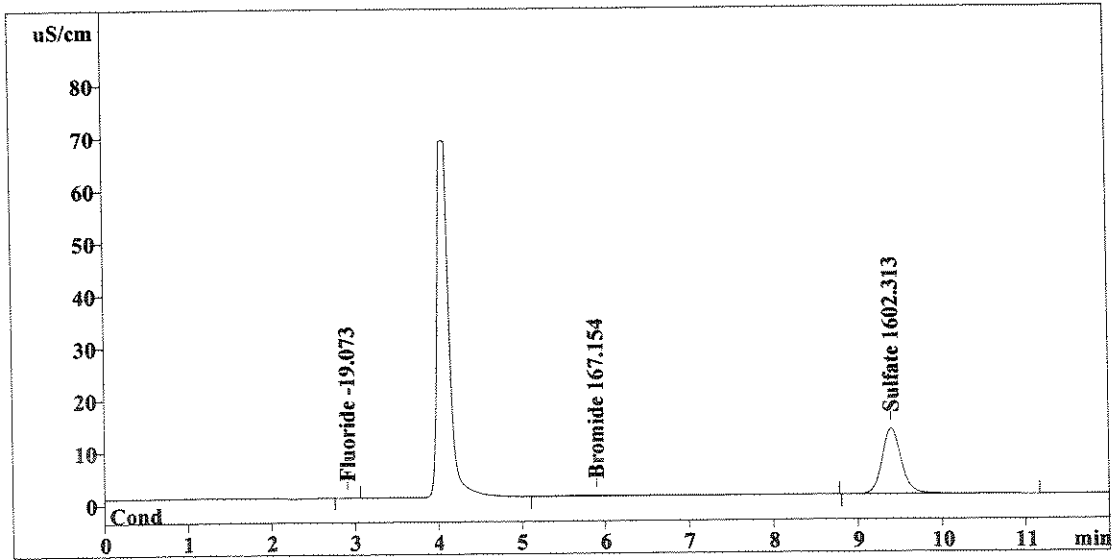
Method 300.0/9056

Report date: 7/9/2008 00:37:38
 Printed by: User
 Ident: 1112809
 Analysis from: 7/9/2008 00:25:40
 File: S7090025.CHW

Last save: 7/9/2008 00:37:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37935
 SAMPLE: CS
 Vial number: 59
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.274	-19.073	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	11.136	167.154	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.40	199.754	1602.313	Sulfate
<hr/>				
6	12.00	211.164	1788.540	

Handwritten notes: 1/1000 next to row 2; OK next to row 6; Signature and date 7/9/08 below row 6.

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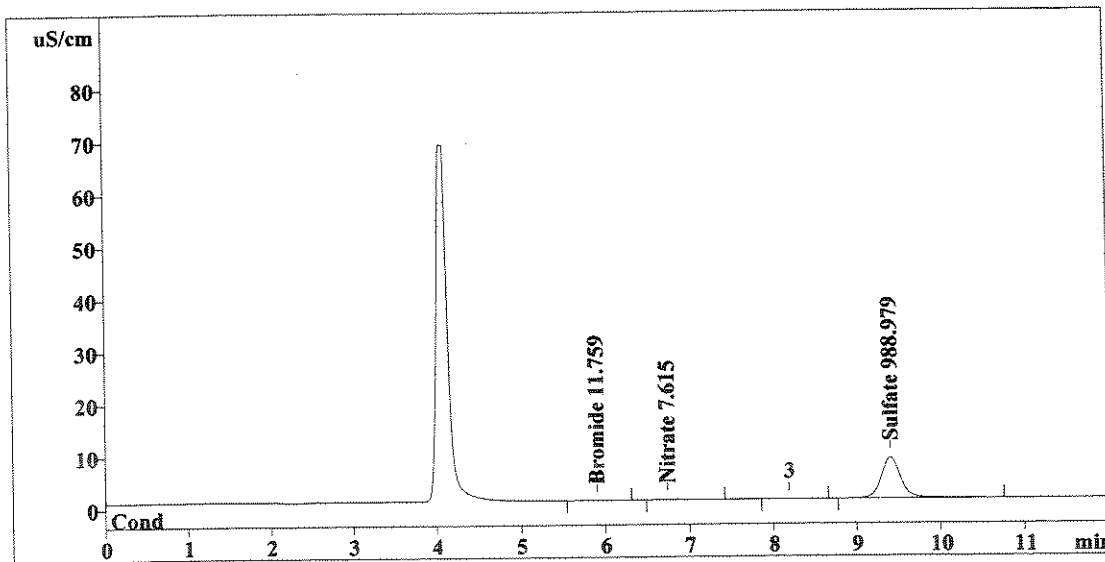
Method 300.0/9056

Report date: 7/9/2008 00:51:44
 Printed by: User
 Ident: 1112810
 Analysis from: 7/9/2008 00:39:46
 File: S7090039.CHW

Last save: 7/9/2008 00:51:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37936
 SAMPLE: CS
 Vial number: 60
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



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	5.90	0.153	11.759	Bromide
5	6.73	0.437	7.615	Nitrate
6	9.40	123.701	988.979	Sulfate
6	12.00	124.292	1008.354	

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Handwritten notes:
 7/9/08
 SO4 Not needed.
 7/9/08

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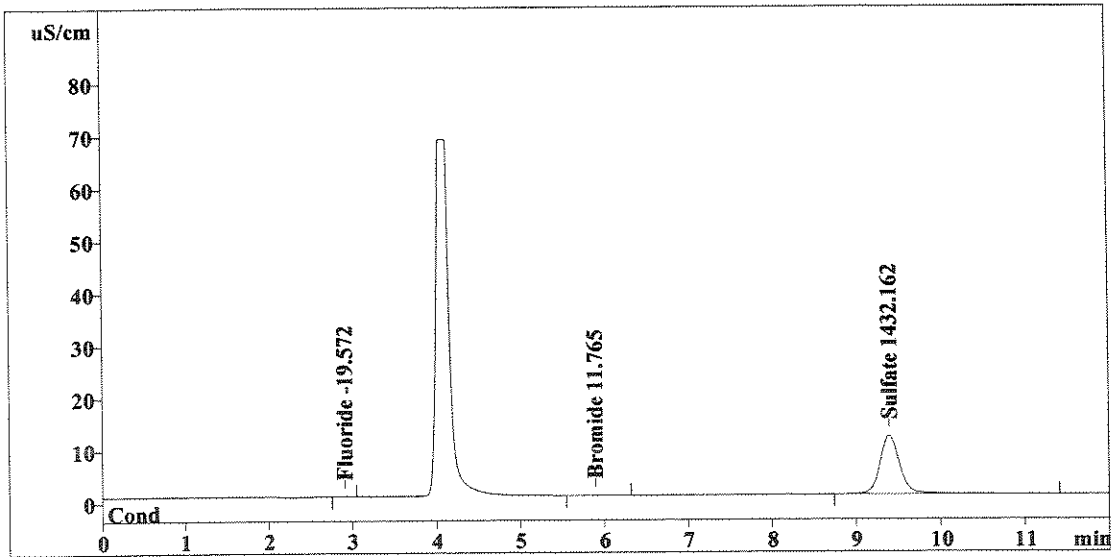
Method 300.0/9056

Report date: 7/9/2008 01:05:50
 Printed by: User
 Ident: 1112811
 Analysis from: 7/9/2008 00:53:51
 File: S7090053.CHW

Last save: 7/9/2008 01:05:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37937
 SAMPLE: CS
 Vial number: 61
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.138	-19.572	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	0.153	11.765	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.40	178.655	1432.162	Sulfate
<hr/>				
6	12.00	178.947	1463.499	

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Handwritten notes:
 1/1000
 OK
 SO4 not needed.
 7/9/08

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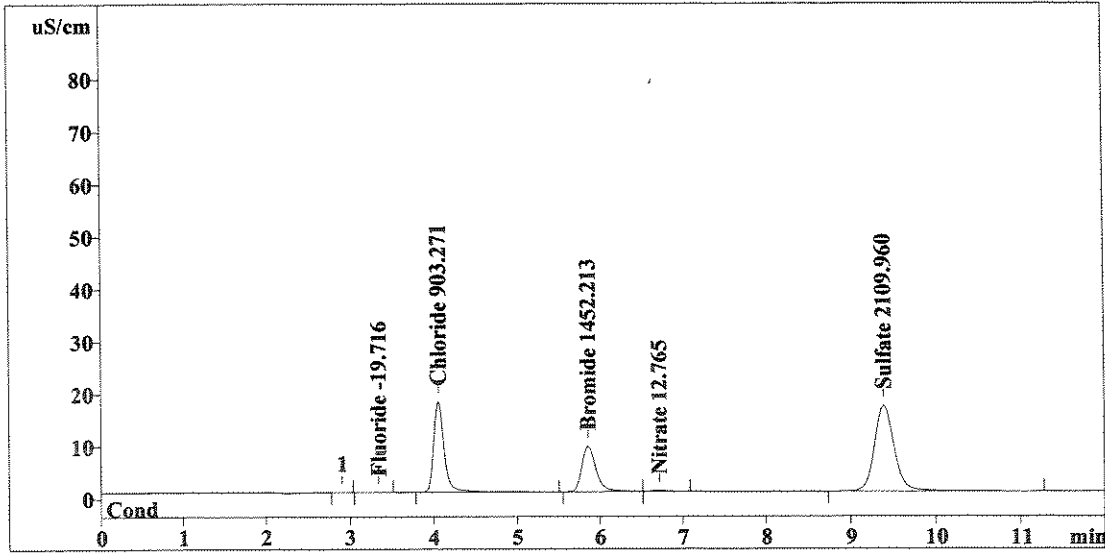
Method 300.0/9056

Report date: 7/9/2008 01:19:55
 Printed by: User
 Ident: 1113426
 Analysis from: 7/9/2008 01:07:57
 File: S7090107.CHW

Last save: 7/9/2008 01:19:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37938
 SAMPLE: CS
 Vial number: 62
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.099	-19.716	Fluoride
2	4.06	146.185	903.271	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.86	101.964	1452.213	Bromide
5	6.72	2.579	12.765	Nitrate
6	9.39	262.701	2109.960	Sulfate
<hr/>				
6	12.00	513.527	4497.925	

Handwritten signature and date: 7/9/08

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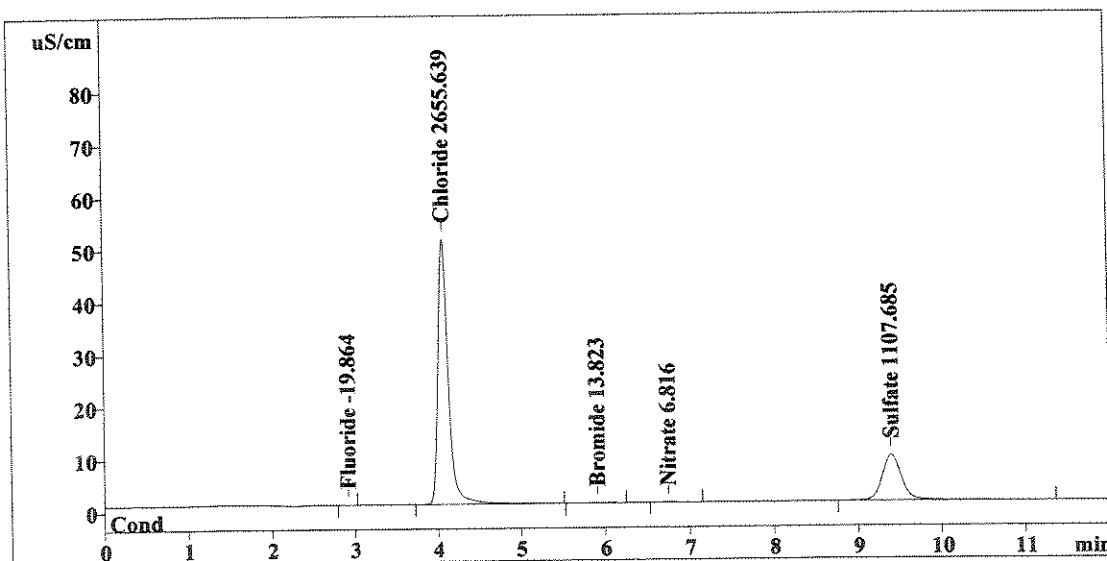
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/9/2008 01:34:01
 Printed by: User
 IDent: 1113427
 Analysis from: 7/9/2008 01:22:03
 File: S7090122.CHW

Method 300.0/9056

Last save: 7/9/2008 01:34:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37939
 SAMPLE: CS
 Vial number: 63
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.058	-19.864	Fluoride
2	4.07	432.739	2655.639	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.299	13.823	Bromide
5	6.74	0.105	6.816	Nitrate
6	9.40	138.421	1107.685	Sulfate
6	12.00	571.622	3803.827	

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OK
7/9/08
SO4 Not needed

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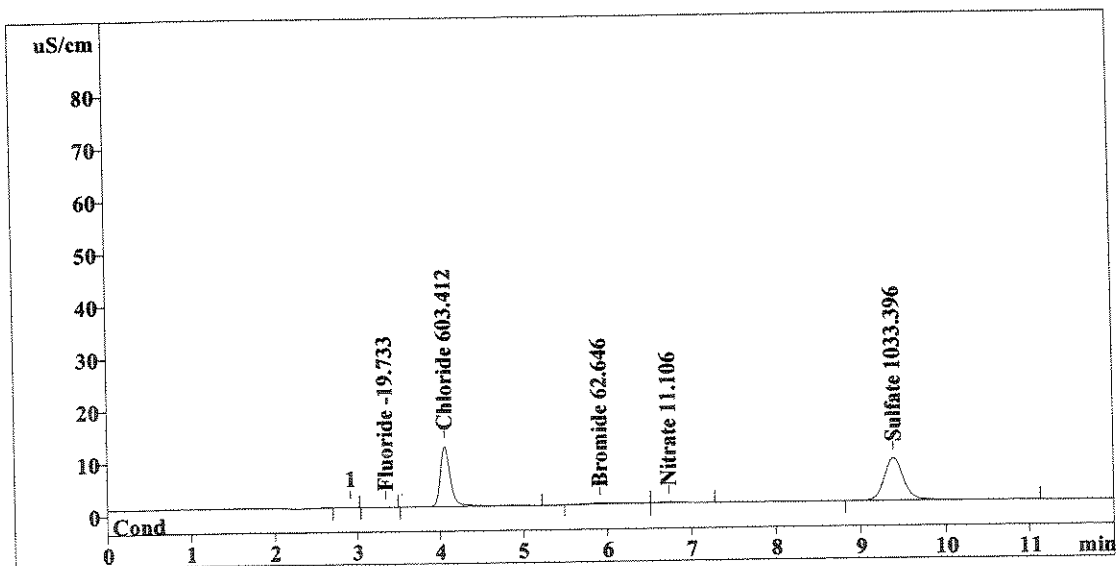
Method 300.0/9056

Report date: 7/9/2008 01:48:07
 Printed by: User
 Ident: 1113429
 Analysis from: 7/9/2008 01:36:09
 File: S7090136.CHW

Last save: 7/9/2008 01:48:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37940
 SAMPLE: CS
 Vial number: 64
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.094	-19.733	Fluoride
2	4.06	97.151	603.412	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	3.750	62.646	Bromide
5	6.73	1.889	11.106	Nitrate
6	9.39	129.209	1033.396	Sulfate
<hr/>				
6	12.00	232.092	1730.295	

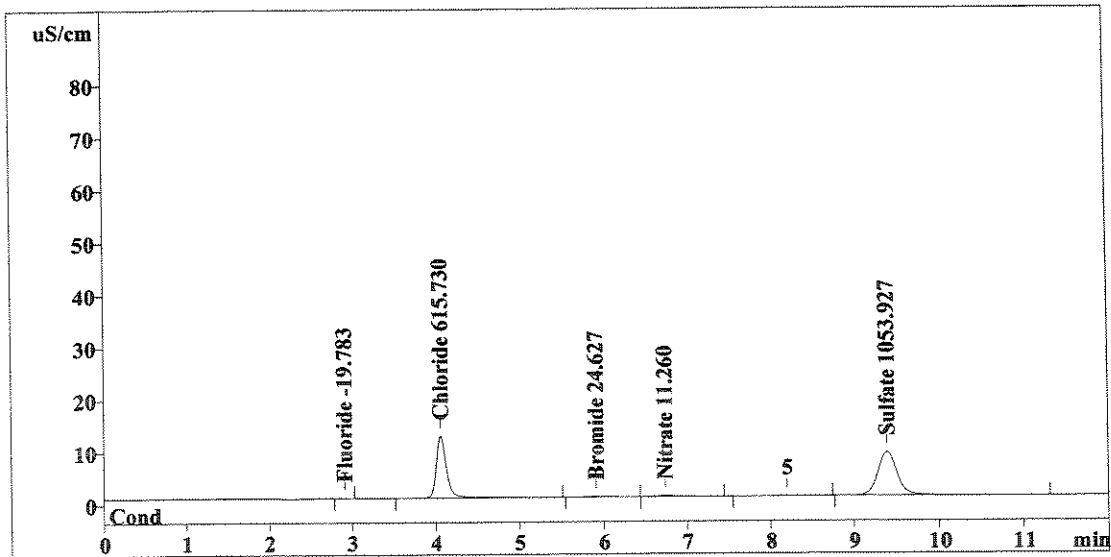
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Report date: 7/9/2008 02:02:13
 Printed by: User
 Ident: 1113429 DUP
 Analysis from: 7/9/2008 01:50:15
 File: S7090150.CHW

Last save: 7/9/2008 02:02:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37941
 SAMPLE: CS
 Vial number: 65
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.080	-19.783	Fluoride
2	4.06	99.165	615.730	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	1.062	24.627	Bromide
5	6.74	1.953	11.260	Nitrate
6	9.39	131.755	1053.927	Sulfate
6	12.00	234.015	1725.327	

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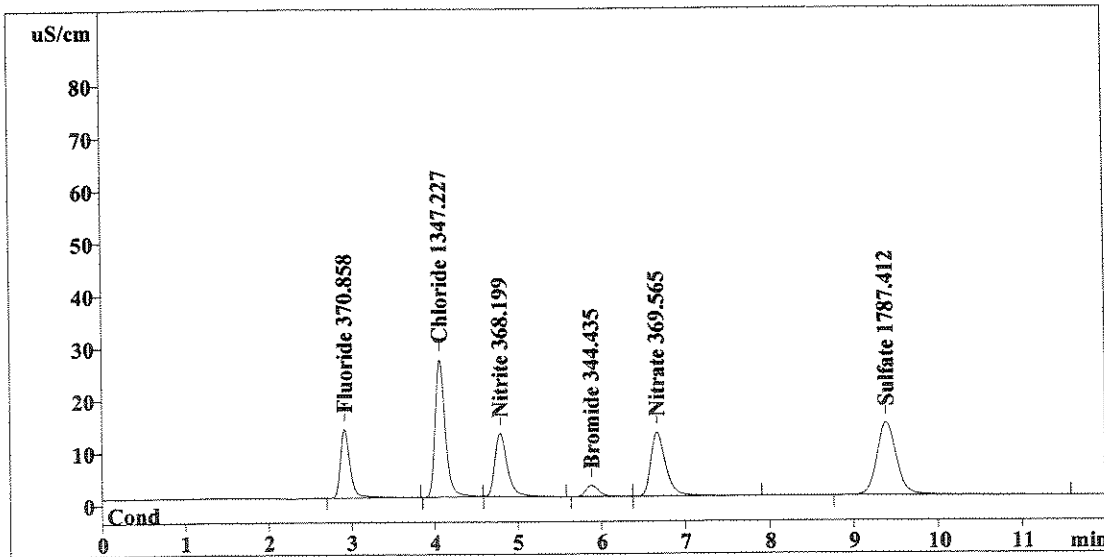
Method 300.0/9056

Report date: 7/9/2008 02:16:19
 Printed by: User
 Ident: 1113429 SPK
 Analysis from: 7/9/2008 02:04:21
 File: S7090204.CHW

Last save: 7/9/2008 02:16:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37942
 SAMPLE: CS
 Vial number: 66
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	106.417	370.858	Fluoride
2	4.06	218.782	1347.227	Chloride
3	4.79	125.793	368.199	Nitrite
4	5.88	23.666	344.435	Bromide
5	6.67	150.940	369.565	Nitrate
6	9.39	222.706	1787.412	Sulfate
<hr/>				
6	12.00	848.305	4587.697	

OK
OK
 7/9/08

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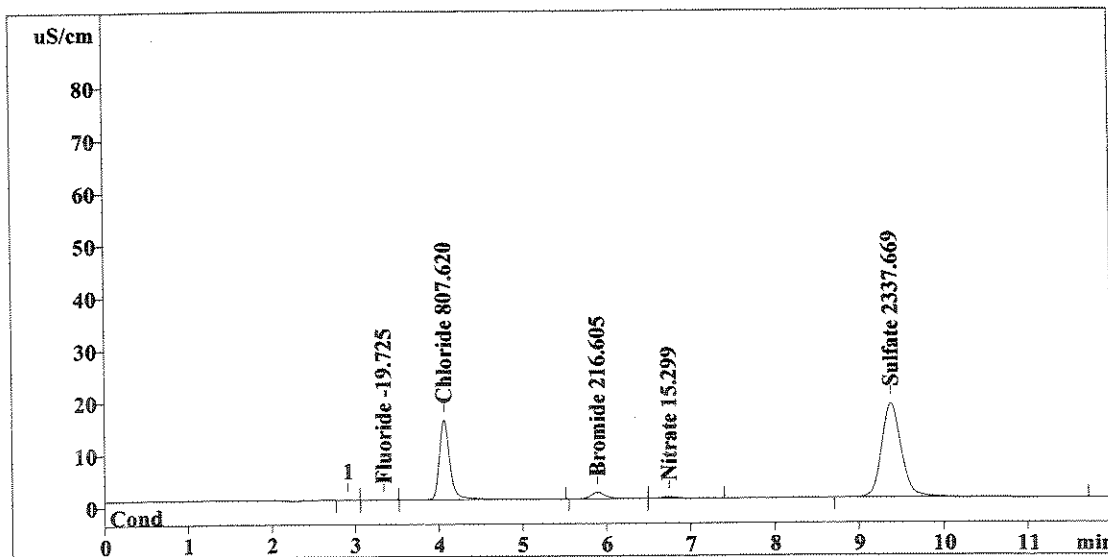
Method 300.0/9056

Report date: 7/9/2008 02:30:25
 Printed by: User
 Ident: 1113430
 Analysis from: 7/9/2008 02:18:27
 File: S7090218.CHW

Last save: 7/9/2008 02:30:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37943
 SAMPLE: CS
 Vial number: 67
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.096	-19.725	Fluoride
2	4.06	130.544	807.620	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	14.631	216.605	Bromide
5	6.74	3.632	15.299	Nitrate
6	9.38	290.937	2337.669	Sulfate
<hr/>				
6	12.00	439.840	3396.918	

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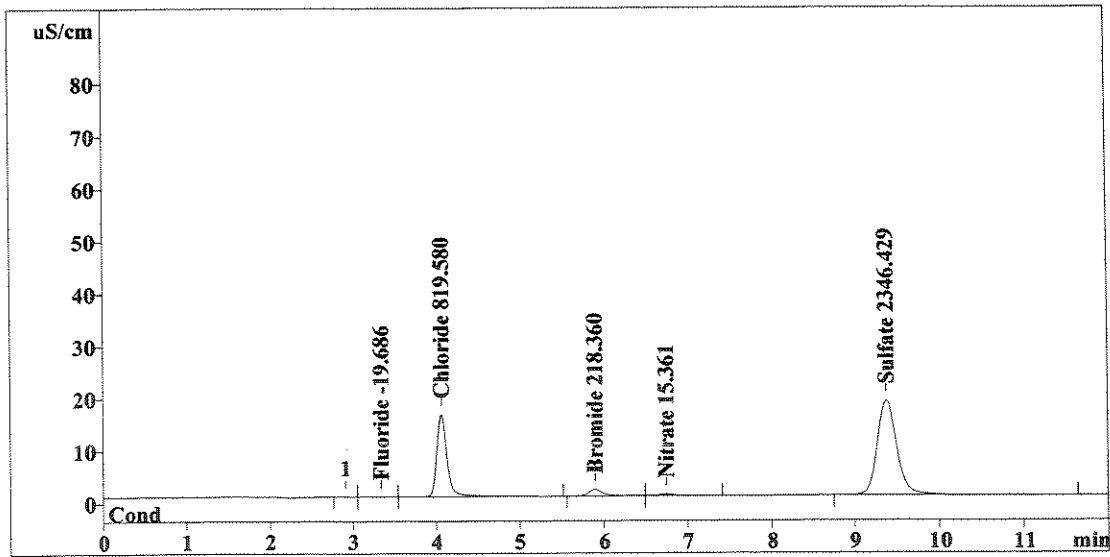
Method 300.0/9056

Report date: 7/9/2008 02:44:30
 Printed by: User
 Ident: 1113430 DUP
 Analysis from: 7/9/2008 02:32:32
 File: S7090232.CHW

Last save: 7/9/2008 02:44:30

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37944
 SAMPLE: CS
 Vial number: 68
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.107	-19.686	Fluoride
2	4.06	132.499	819.580	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.90	14.755	218.360	Bromide
5	6.74	3.658	15.361	Nitrate
6	9.38	292.023	2346.429	Sulfate
<hr/>				
6	12.00	443.043	3419.416	

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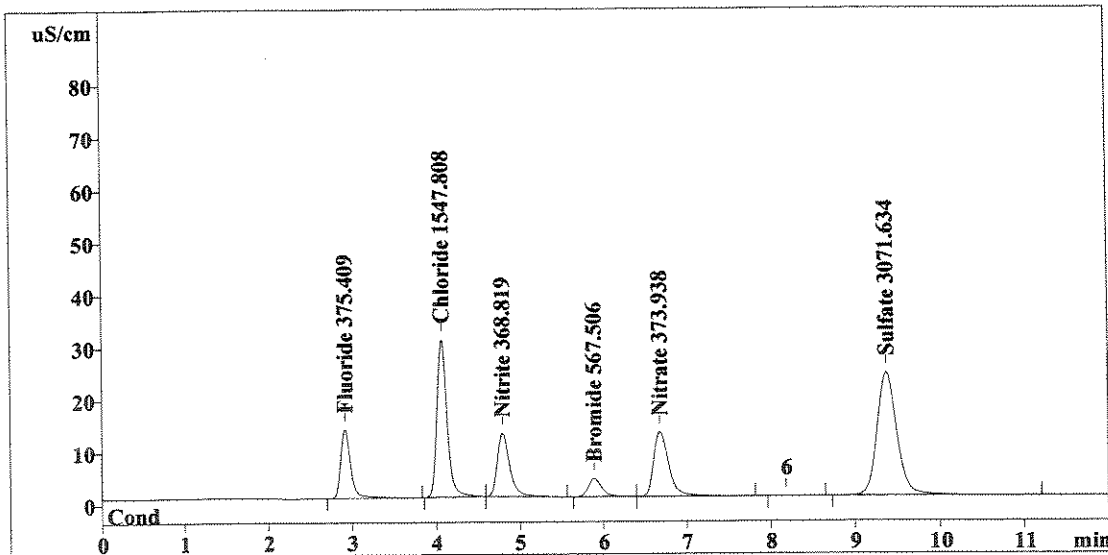
Method 300.0/9056

Report date: 7/9/2008 02:58:37
 Printed by: User
 Ident: 1113430 SPK
 Analysis from: 7/9/2008 02:46:38
 File: S7090246.CHW

Last save: 7/9/2008 02:58:37

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37945
 SAMPLE: CS
 Vial number: 69
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	107.656	375.409	Fluoride
2	4.06	251.582	1547.808	Chloride
3	4.79	126.004	368.819	Nitrite
4	5.89	39.433	567.506	Bromide
5	6.68	152.758	373.938	Nitrate
6	9.38	381.947	3071.634	Sulfate
<hr/>				
6	12.00	1059.380	6305.114	

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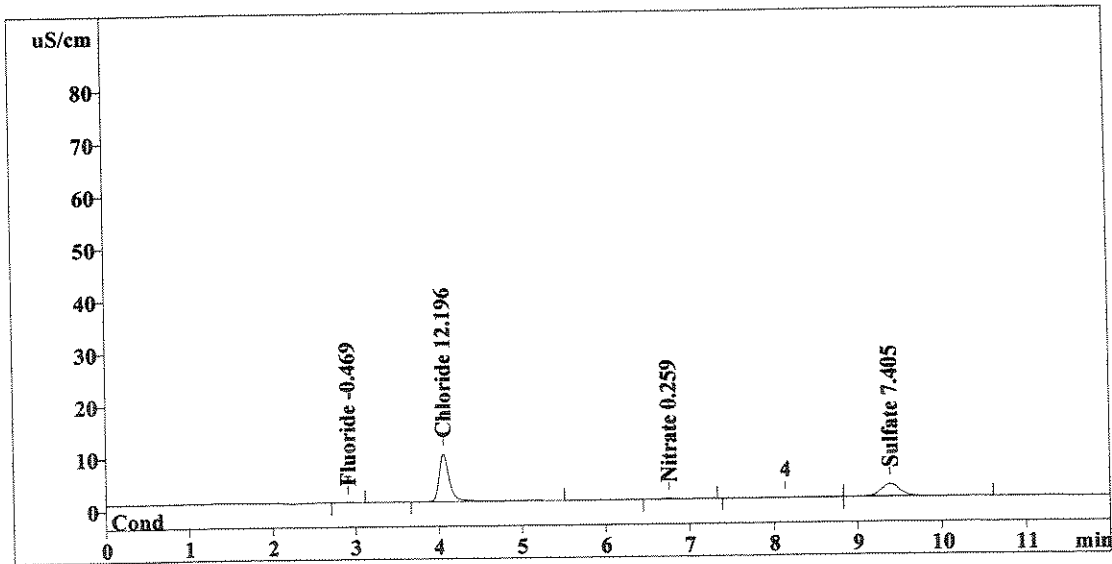
Method 300.0/9056

Report date: 7/9/2008 03:12:43
 Printed by: User
 Ident: 1112968
 Analysis from: 7/9/2008 03:00:44
 File: S7090300.CHW

Last save: 7/9/2008 03:12:43

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37946
 SAMPLE: CS
 Vial number: 70
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.358	-0.469	Fluoride
2	4.06	78.254	12.196	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.76	1.580	0.259	Nitrate
6	9.39	37.798	7.405	Sulfate
<hr/>				
6	12.00	117.989	20.329	

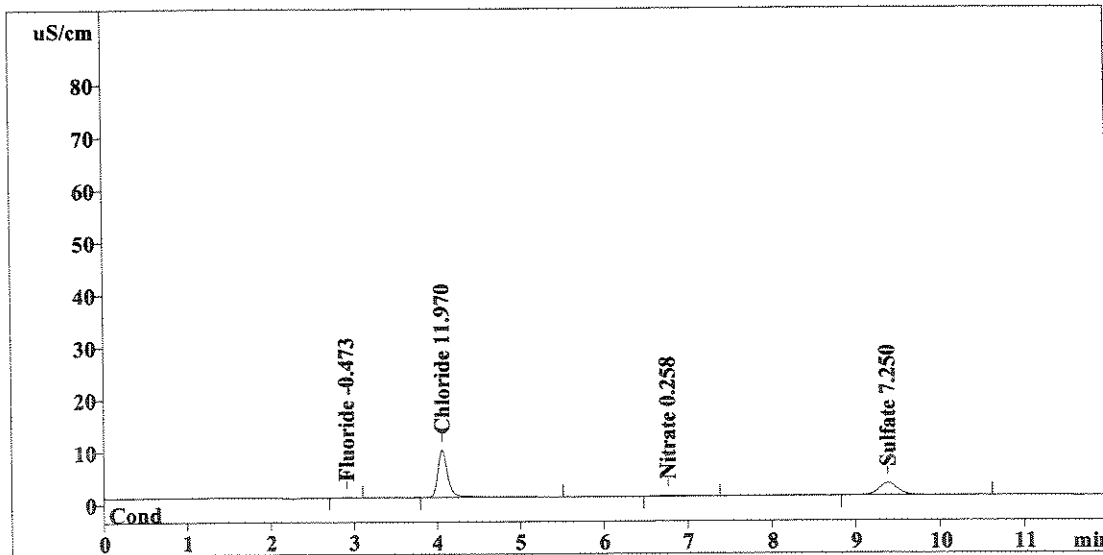
This report has been created by IC Net
 METROHM LTD

Report date: 7/9/2008 03:26:49
 Printed by: User
 Ident: 1112968 DUP
 Analysis from: 7/9/2008 03:14:50
 File: S7090314.CHW

Last save: 7/9/2008 03:26:49

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37947
 SAMPLE: CS
 Vial number: 71
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.316	-0.473	Fluoride
2	4.06	76.771	11.970	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.77	1.570	0.258	Nitrate
6	9.39	37.030	7.250	Sulfate
6	12.00	115.687	19.951	

OK
OK
7/9/08

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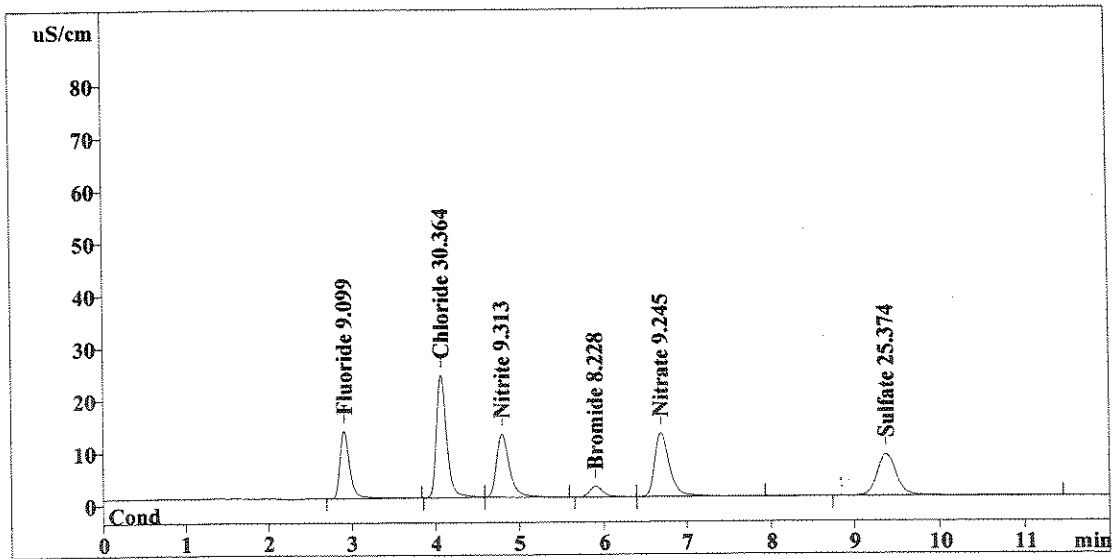
Method 300.0/9056

Report date: 7/9/2008 03:40:55
 Printed by: User
 Ident: 1112968 SPK
 Analysis from: 7/9/2008 03:28:56
 File: S7090328.CHW

Last save: 7/9/2008 03:40:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37948
 SAMPLE: CS
 Vial number: 72
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	104.535	9.099	Fluoride
2	4.06	197.087	30.364	Chloride
3	4.80	127.262	9.313	Nitrite
4	5.90	22.585	8.228	Bromide
5	6.69	151.034	9.245	Nitrate
6	9.38	126.921	25.374	Sulfate
<hr/>				
6	12.00	729.424	91.622	

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CS 7/9/08

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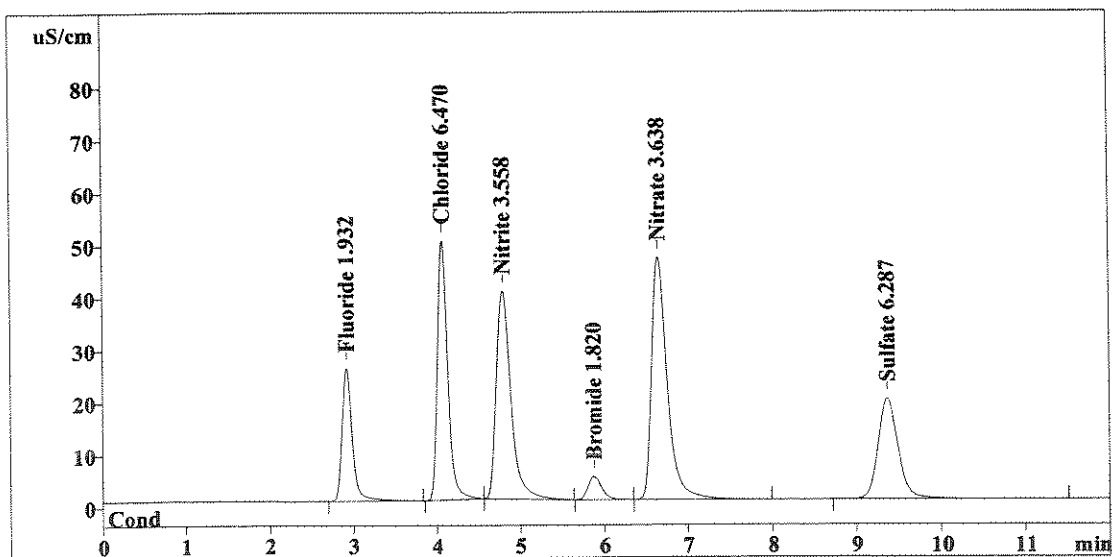
Method 300.0/9056

Report date: 7/9/2008 03:55:00
 Printed by: User
 Ident: CCV
 Analysis from: 7/9/2008 03:43:02
 File: S7090343.CHW

Last save: 7/9/2008 03:55:00

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37949
 SAMPLE:
 Vial number: 73
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	215.823	1.932	Fluoride
2	4.07	421.696	6.470	Chloride
3	4.79	484.174	3.558	Nitrite
4	5.88	50.769	1.820	Bromide
5	6.65	602.403	3.638	Nitrate
6	9.37	312.909	6.287	Sulfate
<hr/>				
6	12.00	2087.773	23.706	

Handwritten: α
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 7/9/08

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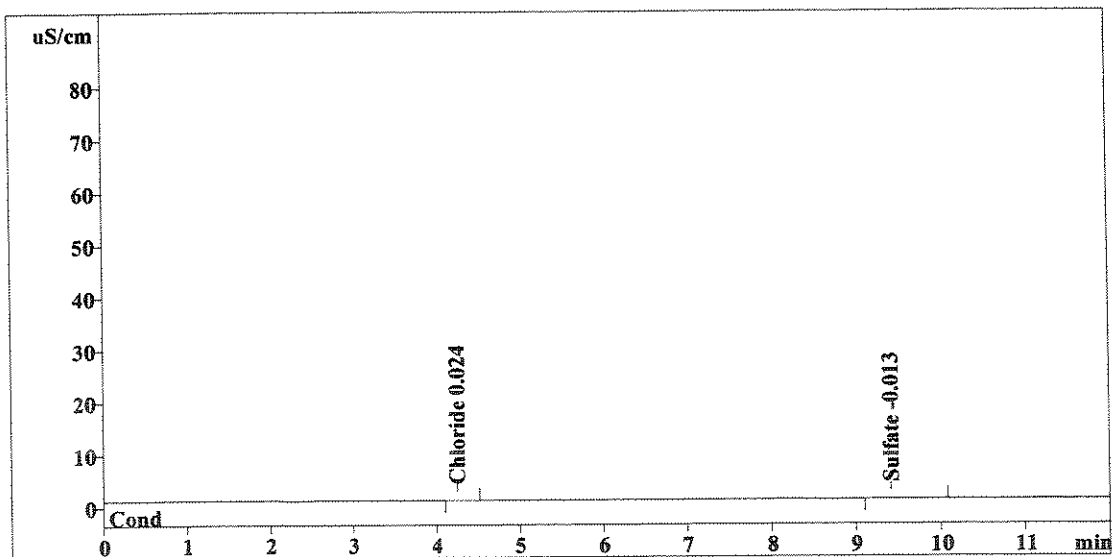
Method 300.0/9056

Report date: 7/9/2008 04:09:06
 Printed by: User
 Ident: CCB
 Analysis from: 7/9/2008 03:57:08
 File: S7090357.CHW

Last save: 7/9/2008 04:09:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 37950
 SAMPLE:
 Vial number: 74
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.25	0.064	0.024	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	9.41	0.420	-0.013	Sulfate
6	12.00	0.484	0.037	

Handwritten notes: 'OK' with a downward arrow pointing to the Chloride row, and '7/9/08' with a signature-like mark next to the final row.

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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: 7-8-08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
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	WC720050A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC720093C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC720093D
NO3		50			1.0	CMW	7/3/08	E	7/6/08	WC720093E
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Run #: 163746
 Analyte: CHLORIDE 9056
 Printed: 07/14/08 12:47

CHLORIDE BY ION CHROMATOGRAPHY

44538 44798
 44650 44770
 44797 44853
 44746 44866

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	1111265	WATER	3090	1000.0	0.200			07/10/08	RUN	ASPB
CHK5		1116612	WATER	6.49	1.0	0.200	99.8		07/09/08		
BLK4		1116613	WATER	0.200	1.0	0.200			07/09/08		
SPKB		1116614	WATER	1.91	1.0	0.200	95.6		07/09/08		
ESMP	R2844538	1111267	WATER	1700	1000.0	0.200			07/10/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	5260	1000.0	0.200			07/10/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	4450	1000.0	0.200			07/10/08	RUN	ASPB
LDUP		1116615	WATER	4380	1000.0	0.200		1.46	07/10/08		
SPK1		1116616	WATER	6180	1000.0	0.200	86.7		07/10/08		
ESMP	R2844650	1112487	WATER	4050	1000.0	0.200			07/10/08	RUN	ASPB
LDUP		1116617	WATER	4060	1000.0	0.200		0.34	07/10/08		
SPK1		1116618	WATER	5830	1000.0	0.200	88.8		07/10/08		
ESMP	R2844650	1112489	WATER	4050	1000.0	0.200			07/10/08	RUN	ASPB
ESMP	R2844650	1112809	WATER	4130	1000.0	0.200			07/10/08		ASPB
ESMP	R2844650	1112810	WATER	3870	1000.0	0.200			07/10/08		ASPB
ESMP	R2844650	1112811	WATER	5140	1000.0	0.200			07/10/08		ASPB
BLK5		1116619	SOIL/SEDIME	0.540	1.0	20.0			07/10/08		
ESMP	R2844797	1114380	SOIL/SEDIME	870	20.0	20.0			07/10/08	QC	ASPB
LDUP		1116620	SOIL/SEDIME	888	20.0	20.0		2.08	07/10/08		
SPK1		1116621	SOIL/SEDIME	1080	20.0	20.0	517.1		07/10/08		
ESMP	R2844797	1114376	SOIL/SEDIME	49600	1000.0	20.0			07/10/2008		ASPB

Records printed: 21

Reviewed & Approved

By: S. Seta

Date: 7/14/08

07-09-08

Data Manually Entered

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample info 1	Sample info 2
Columbia-no dilution	LCS	1	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution	11130504	2	1.0	200.0	1.0	100.0	0	1	1	BTU	
Columbia-no dilution	1115927	3	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115928	4	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115929	5	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115930	6	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115931	7	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115932	8	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115782	9	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115782	10	1.0	40.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	CCV	11	1.0	100.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	CCB	12	1.0	1.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	CCB	13	1.0	1.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115782	14	1.0	400.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115783	15	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115783	16	1.0	40.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115783	17	1.0	100.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115783	18	1.0	400.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115784	19	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115784	20	1.0	40.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115784	21	1.0	100.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115784	22	1.0	400.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115785	23	1.0	10.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	CCV	24	1.0	1.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	CCB	25	1.0	1.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	LCS	26	1.0	1.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115785	27	1.0	40.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115785	28	1.0	100.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1115785	29	1.0	400.0	1.0	100.0	0	1	1	CNS	
Columbia-no dilution	1114371	30	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1114372	31	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1114373	32	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1114691	33	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1114692	34	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1114693	35	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1114694	36	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	CCV	37	1.0	1.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	CCB	38	1.0	1.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1114696	39	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1114696 DUP	40	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1114696 SPK	41	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1114697	42	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution	1114698	43	1.0	10.0	1.0	100.0	0	1	1	MV	
Columbia-no dilution	1114380	44	1.0	1.0	1.0	100.0	0	1	1	MV	
Columbia-no dilution	1114380 DUP	45	1.0	1.0	1.0	100.0	0	1	1	MV	
Columbia-no dilution	1114380 SPK	46	1.0	1.0	1.0	100.0	0	1	1	C	
Columbia-no dilution	1114380	47	1.0	20.0	1.0	100.0	0	1	1	C	
Columbia-no dilution	1114380 DUP	48	1.0	20.0	1.0	100.0	0	1	1	C	
Columbia-no dilution	1114380 SPK	49	1.0	20.0	1.0	100.0	0	1	1	S	
Columbia-no dilution	1114380	50	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution	1114380 DUP	51	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution	1114380 SPK	52	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution	SPK METHOD BLA	53	1.0	1.0	1.0	100.0	0	1	1	C	
Columbia-no dilution	1110349	54	1.0	10.0	1.0	100.0	0	1	1	C	

Analyst: CWASS
 PIPETS: MINE
 WOLLISTD
 UPGATED
 LCG

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample info 1	Sample info 2
Columbia-no dilution	1110349	55	1.0	100.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1105436	56	1.0	400.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1114080	57	1.0	100.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	METHOD BLANK 71	58	1.0	1.0	1.0	100.0	0	1	1	1 CMNS	
Columbia-no dilution	CCV	59	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	CCB	60	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	LCS	61	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	LN4Q0701	113	1.0	40.0	1.0	100.0	0	1	1	1 BTU	
Columbia-no dilution	1117334	114	1.0	40.0	1.0	100.0	0	1	1	1 BTU	
Columbia-no dilution	CCV	115	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	CCB	116	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	11106024	69	1.0	200.0	1.0	100.0	0	1	1	1 %CL	
Columbia-no dilution	1114366	70	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	11130504	137	1.0	400.0	1.0	100.0	0	1	1	1 BTU	
Columbia-no dilution	CCV	138	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	CCB	139	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	1114376	71	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1111265	72	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1111267	73	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1111765	74	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112486	75	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112486 DUP	76	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112486 SPK	77	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	CCV	78	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	CCB	79	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	1112487	80	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112487 DUP	81	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112487 SPK	82	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	BLK0710	119	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	1112489	83	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	BLK0710	121	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	1112809	84	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112810	85	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1112811	86	1.0	1000.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1113136	87	1.0	400.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1113137	88	1.0	100.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1113137	89	1.0	400.0	1.0	100.0	0	1	1	1 C	
Columbia-no dilution	1113137 DUP	90	1.0	100.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1113137 SPK	92	1.0	100.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1115469	93	1.0	1000.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	CCV	94	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	CCB	95	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	LCS	96	1.0	1.0	1.0	100.0	0	1	1	1	
Columbia-no dilution	1115470	97	1.0	400.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1115471	98	1.0	100.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1115472	99	1.0	1000.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1115473	100	1.0	1000.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1115474	101	1.0	200.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1115475	102	1.0	1000.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1115476	103	1.0	1000.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1115476 DUP	104	1.0	1000.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1115476 SPK	105	1.0	1000.0	1.0	100.0	0	1	1	1 S	
Columbia-no dilution	1115477	106	1.0	1000.0	1.0	100.0	0	1	1	1 S	

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

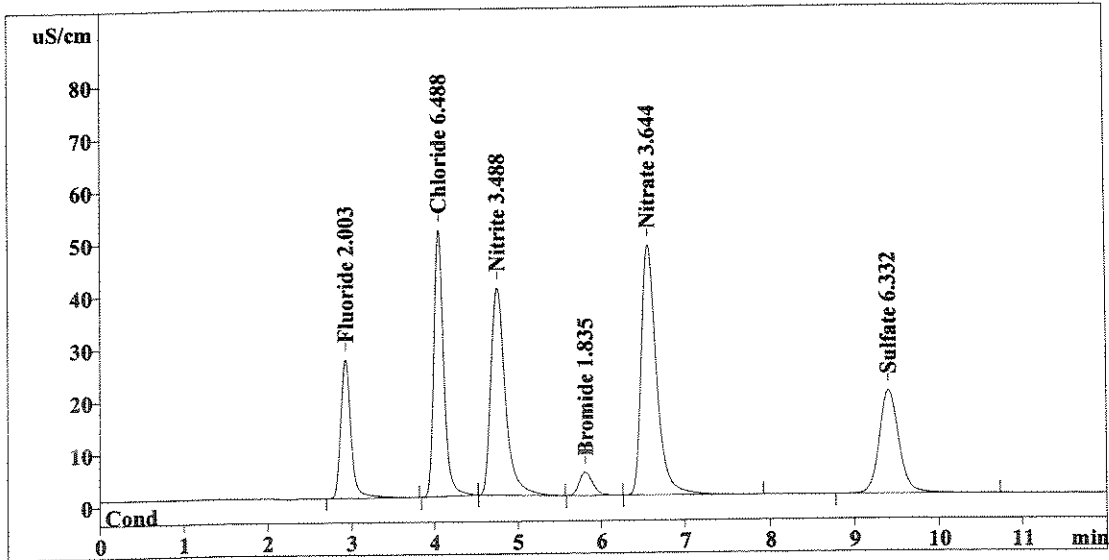
Method 300.0/9056

Report date: 7/10/2008 14:54:25
 Printed by: User
 Ident: CCV
 Analysis from: 7/9/2008 17:20:56
 File: s7091720.chw

Last save: 7/9/2008 17:32:55

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38007
 SAMPLE:
 Vial number: 131
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	223.538	2.003	Fluoride
2	4.05	422.845	6.488	Chloride
3	4.75	474.639	3.488	Nitrite
4	5.81	51.191	1.835	Bromide
5	6.57	603.402	3.644	Nitrate
6	9.41	315.141	6.332	Sulfate
6		12.00	2090.756	23.790

Handwritten notes: 'OK' with a downward arrow pointing to the Bromide row, and a signature 'CWT 7/10/08' next to the total row.

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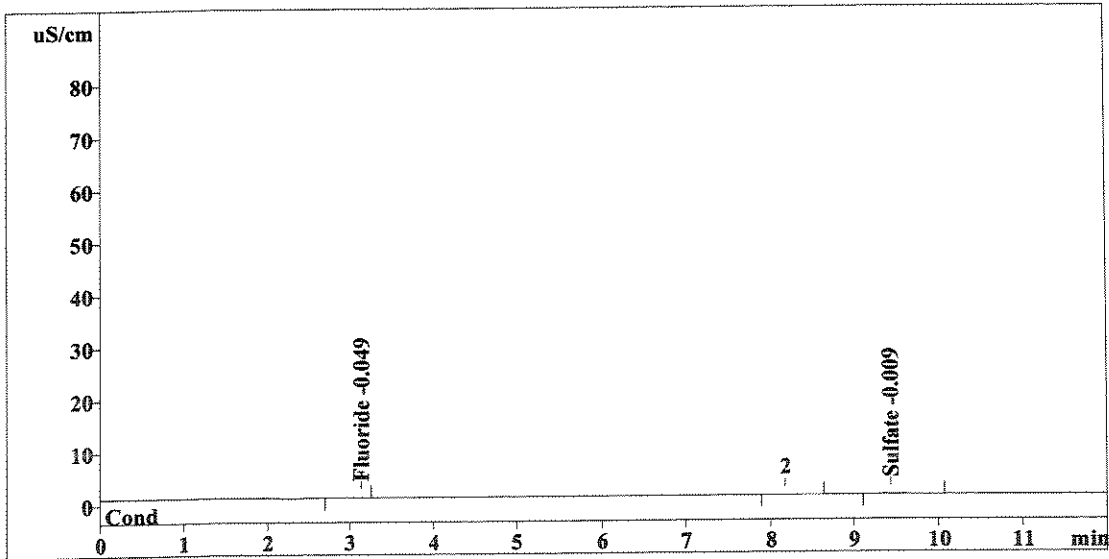
Method 300.0/9056

Report date: 7/10/2008 14:54:28
 Printed by: User
 Ident: CCB
 Analysis from: 7/9/2008 17:35:02
 File: s7091735.chw

Last save: 7/9/2008 17:47:01

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38008
 SAMPLE:
 Vial number: 132
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.13	0.102	-0.049	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	9.45	0.636	-0.009	Sulfate
6	12.00	0.738	0.058	

Handwritten notes: 'OK' with a downward arrow pointing to the 6th row, and a signature 'CCK' with date '7/10/08' below the table.

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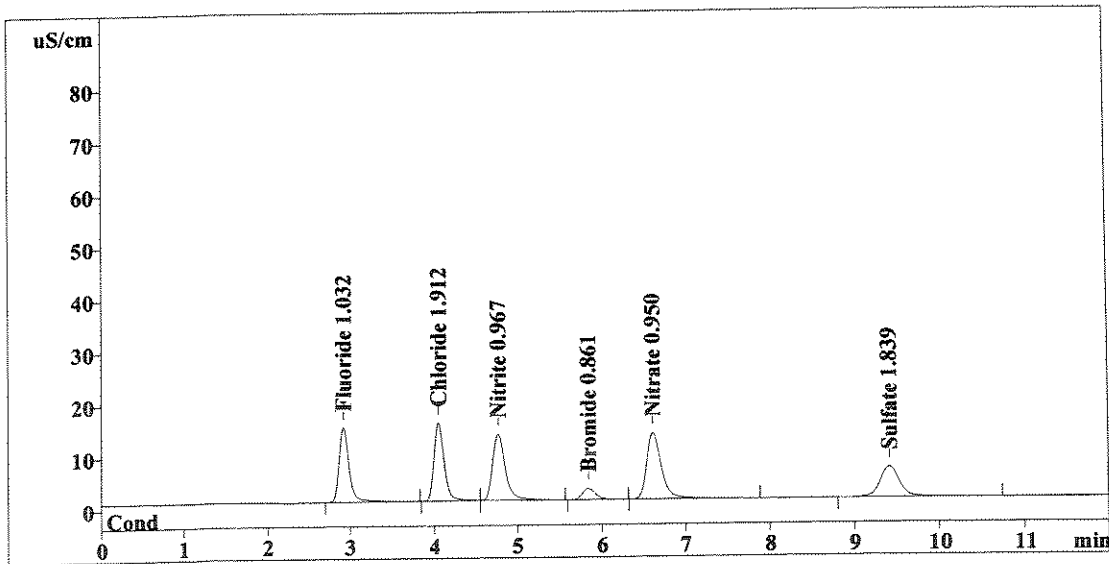
Method 300.0/9056

Report date: 7/10/2008 14:54:32
 Printed by: User
 Ident: LCS
 Analysis from: 7/9/2008 17:49:08
 File: s7091749.chw

Last save: 7/9/2008 18:01:07

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38009
 SAMPLE:
 Vial number: 133
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	117.835	1.032	Fluoride
2	4.05	123.553	1.912	Chloride
3	4.76	132.146	0.967	Nitrite
4	5.84	23.668	0.861	Bromide
5	6.61	155.196	0.950	Nitrate
6	9.42	92.260	1.839	Sulfate
<hr/>				
6	12.00	644.657	7.561	

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Handwritten signature and date: 7/10/08

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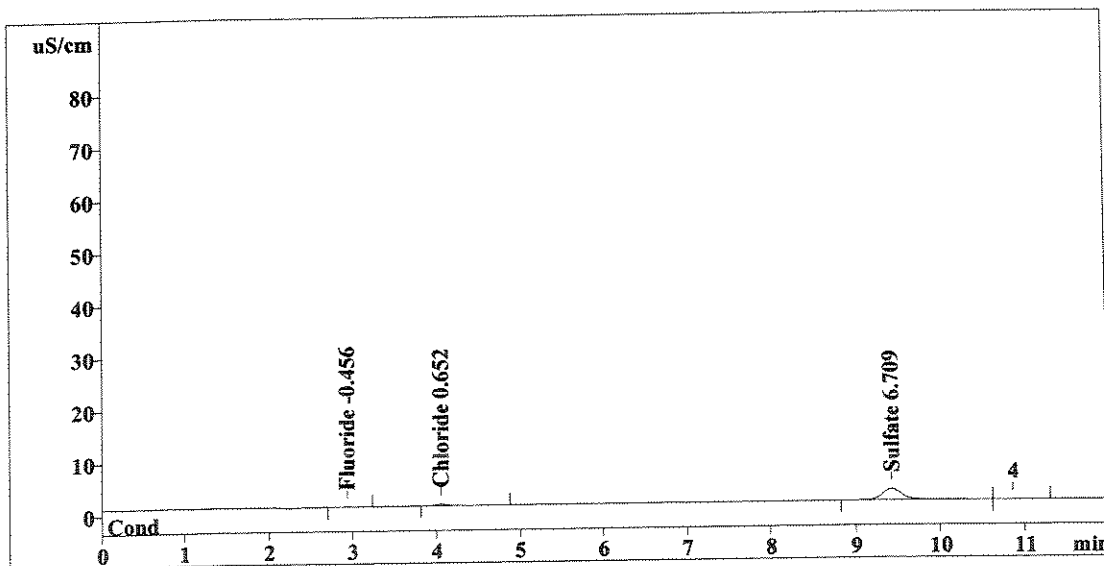
Method 300.0/9056

Report date: 7/9/2008 18:15:12
 Printed by: User
 Ident: 1114368
 Analysis from: 7/9/2008 18:03:14
 File: S7091803.CHW

Last save: 7/9/2008 18:15:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38010
 SAMPLE: CS
 Vial number: 134
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.497	-0.456	Fluoride
2	4.05	2.745	0.652	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	34.345	6.709	Sulfate
<hr/>				
6	12.00	37.586	7.817	

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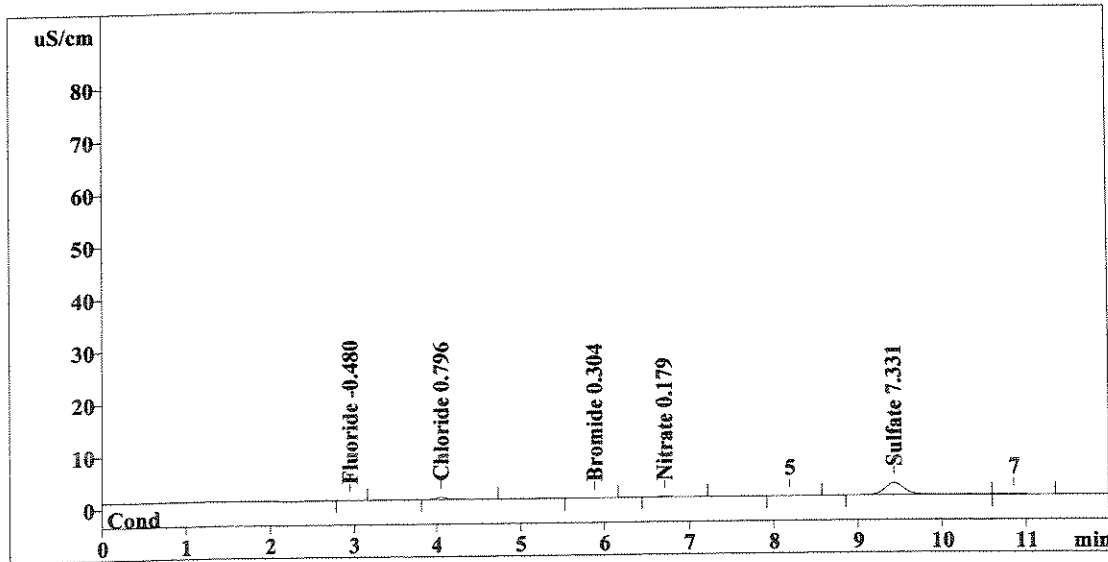
Method 300.0/9056

Report date: 7/9/2008 18:29:18
 Printed by: User
 Ident: 1114369
 Analysis from: 7/9/2008 18:17:20
 File: S7091817.CHW

Last save: 7/9/2008 18:29:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38011
 SAMPLE: CS
 Vial number: 135
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	0.235	-0.480	Fluoride
2	4.06	3.686	0.796	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.89	0.181	0.304	Bromide
5	6.71	0.252	0.179	Nitrate
6	9.43	37.433	7.331	Sulfate
6	12.00	41.787	9.091	

Handwritten notes: 'OK' next to Chloride and Bromide rows, and a signature 'G/T' with date '7/10/08' over the Sulfate and final row.

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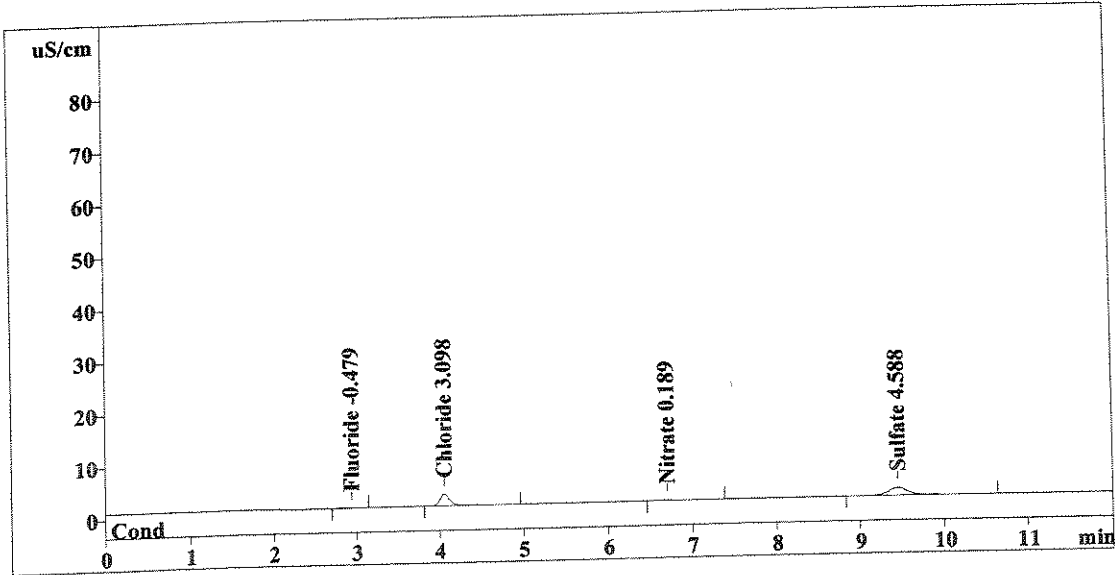
Method 300.0/9056

Report date: 7/9/2008 18:43:25
 Printed by: User
 Ident: 1114370
 Analysis from: 7/9/2008 18:31:27
 File: S7091831.CHW

Last save: 7/9/2008 18:43:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38012
 SAMPLE: CS
 Vial number: 136
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.249	-0.479	Fluoride
2	4.06	18.742	3.098	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.71	0.409	0.189	Nitrate
6	9.45	23.828	4.588	Sulfate
6	12.00	43.229	8.354	

Handwritten notes: 'OK' next to Chloride and Nitrate rows; '7/10/08' and initials next to the final row.

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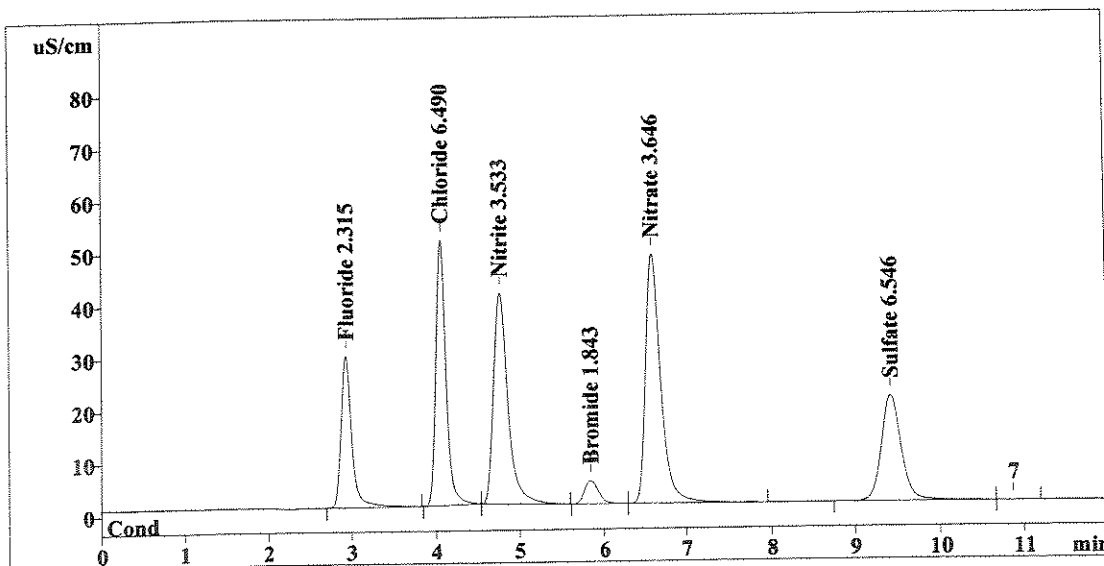
Method 300.0/9056

Report date: 7/10/2008 11:26:54
 Printed by: User
 Ident: CCV
 Analysis from: 7/9/2008 18:46:19
 File: s7091846.chw

Last save: 7/9/2008 18:58:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38013
 SAMPLE:
 Vial number: 144
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	257.497	2.315	Fluoride
2	4.05	422.968	6.490	Chloride
3	4.77	480.702	3.533	Nitrite
4	5.84	51.420	1.843	Bromide
5	6.59	603.667	3.646	Nitrate
6	9.43	325.770	6.546	Sulfate
<hr/>				
6	12.00	2142.024	24.372	

OUT HIGH
α
↓
7/10/08

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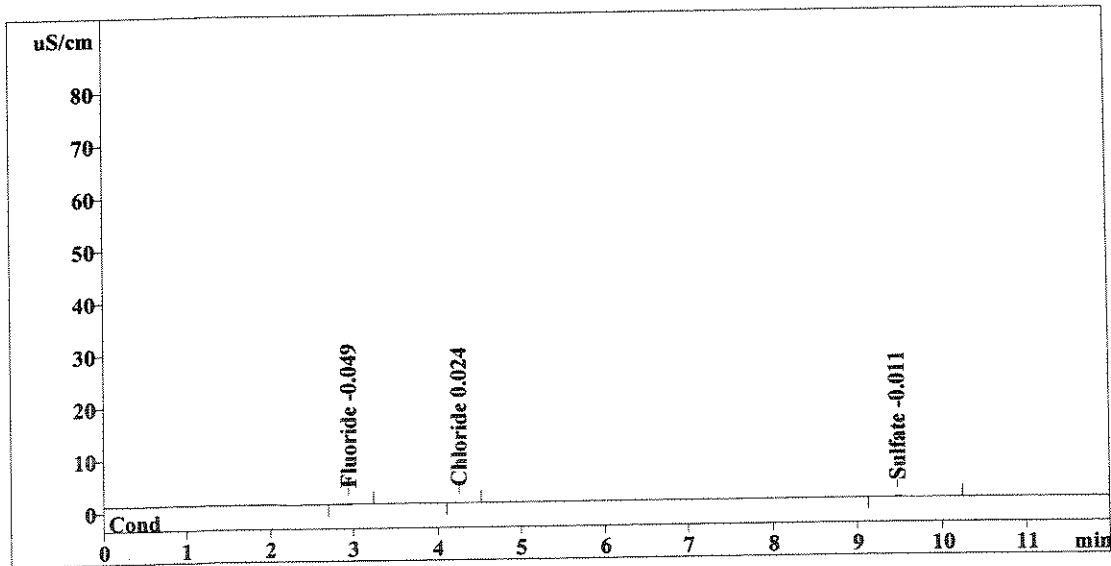
Method 300.0/9056

Report date: 7/9/2008 19:12:23
 Printed by: User
 Ident: CCB
 Analysis from: 7/9/2008 19:00:25
 File: S7091900.CHW

Last save: 7/9/2008 19:12:24

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38014
 SAMPLE:
 Vial number: 145
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/8/2008 10:21:03



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	0.115	-0.049	Fluoride
2	4.25	0.057	0.024	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	9.48	0.546	-0.011	Sulfate
<hr/>				
6	12.00	0.718	0.084	

Handwritten notes: 'OK' with a downward arrow pointing to the Chloride row, and a signature '7/10/08' with a checkmark next to the final row.

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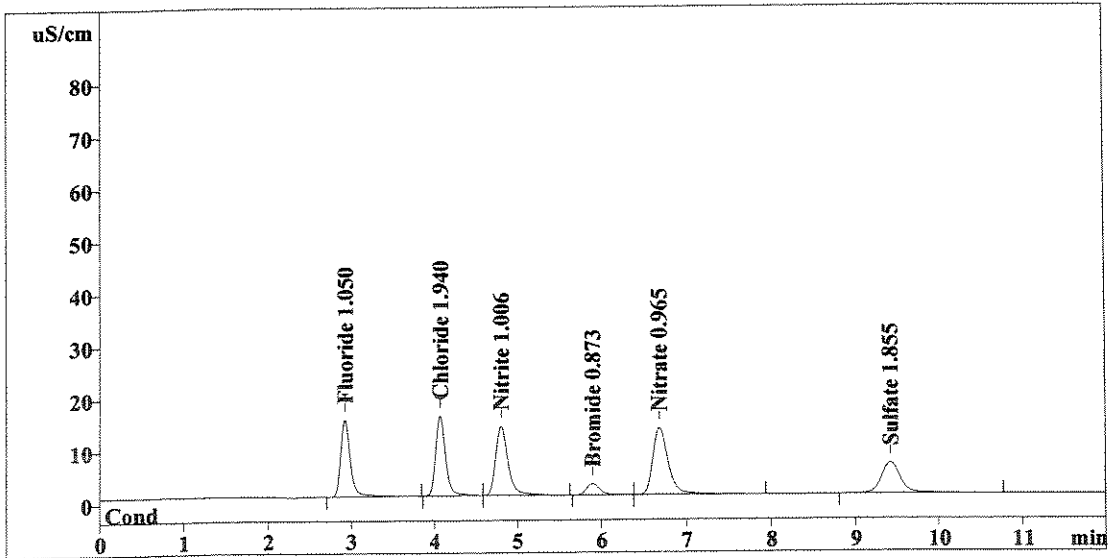
Method 300.0/9056

Report date: 7/9/2008 20:00:58
 Printed by: User
 Ident: LCS
 Analysis from: 7/9/2008 19:49:00
 File: S7091949.CHW

Last save: 7/9/2008 20:00:59

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38015
 SAMPLE:
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	119.744	1.050	Fluoride
2	4.07	125.402	1.940	Chloride
3	4.79	137.380	1.006	Nitrite
4	5.90	23.998	0.873	Bromide
5	6.68	157.780	0.965	Nitrate
6	9.42	93.056	1.855	Sulfate
6	12.00	657.359	7.688	

OK
 ↓
 OUT LOW
 OK
 ↓
 7/10/08

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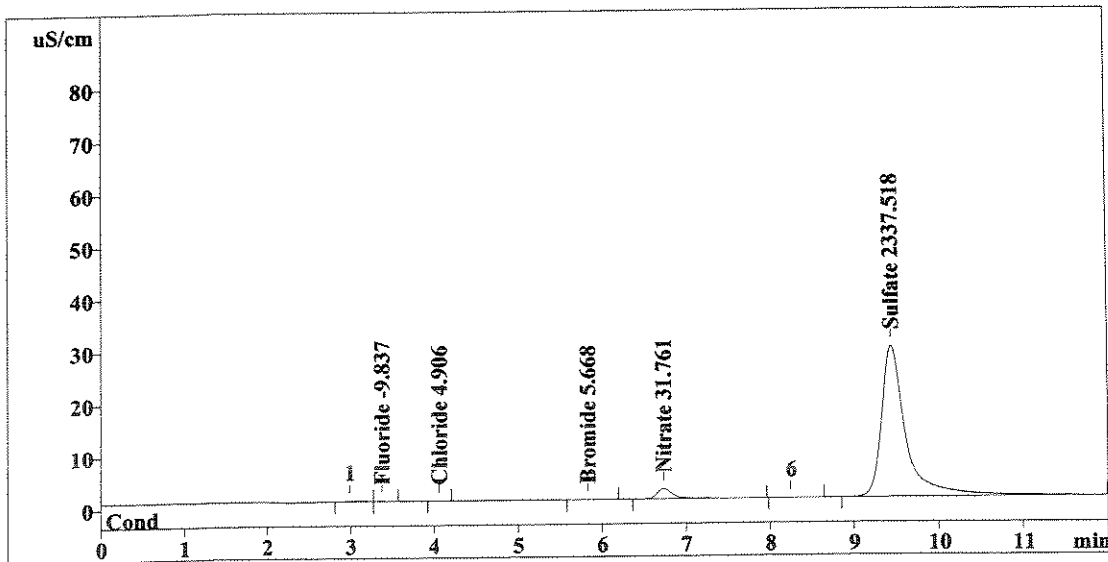
Method 300.0/9056

Report date: 7/9/2008 20:15:04
 Printed by: User
 Ident: 1113050A
 Analysis from: 7/9/2008 20:03:06
 File: S7092003.CHW

Last save: 7/9/2008 20:15:06

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38016
 SAMPLE: BTU
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 200.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.110	-9.837	Fluoride
2	4.06	0.083	4.906	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.83	0.123	5.668	Bromide
5	6.73	23.684	31.761	Nitrate
6	9.44	580.766	2337.518	Sulfate
<hr/>				
6	12.00	604.766	2389.690	

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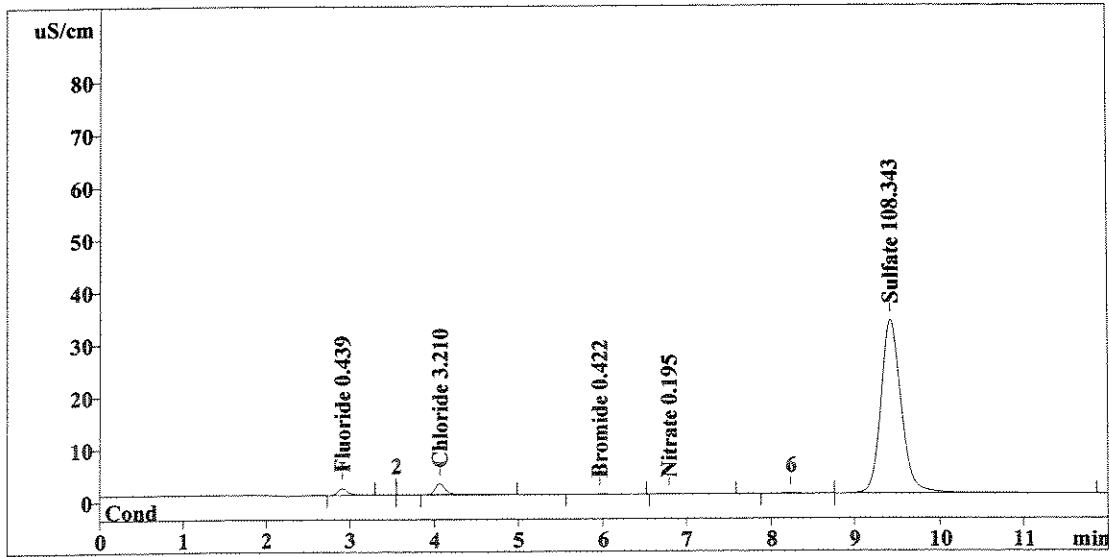
apt 1/400
7/9/08

Report date: 7/9/2008 20:29:10
 Printed by: User
 Ident: 1115927
 Analysis from: 7/9/2008 20:17:12
 File: S7092017.CHW

Last save: 7/9/2008 20:29:12

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38017
 SAMPLE: CNS
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	10.244	0.439	Fluoride
2	4.06	19.474	3.210	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.515	0.422	Bromide
5	6.80	0.516	0.195	Nitrate
6	9.43	538.443	108.343	Sulfate
6	12.00	569.190	112.609	

OK
OK
1/20
CM
7/9/08

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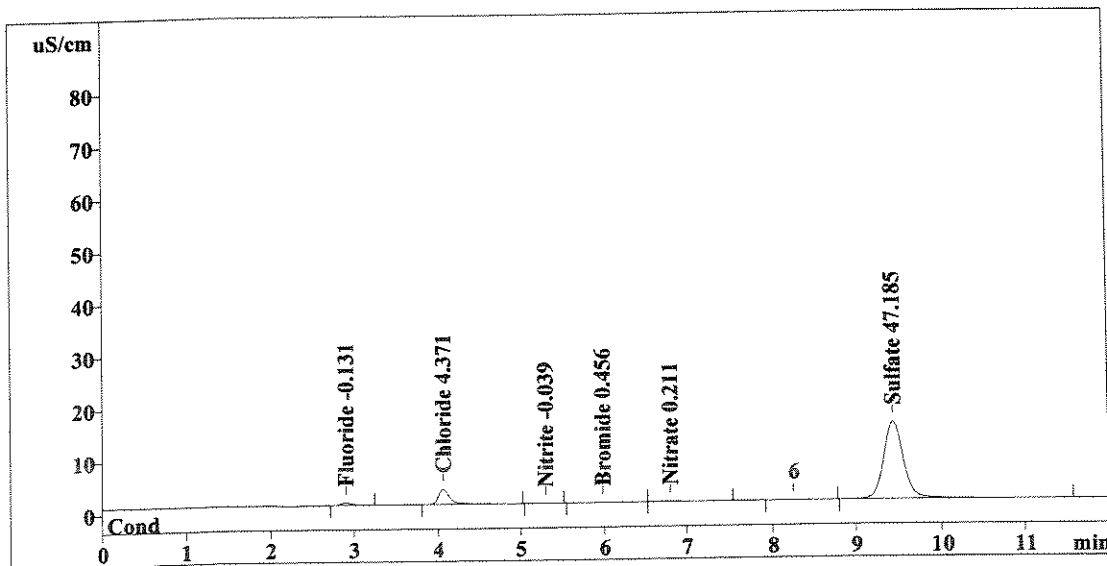
Method 300.0/9056

Report date: 7/9/2008 20:43:16
 Printed by: User
 Ident: 1115928
 Analysis from: 7/9/2008 20:31:18
 File: S7092031.CHW

Last save: 7/9/2008 20:43:18

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38018
 SAMPLE: CNS
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	4.040	-0.131	Fluoride
2	4.06	27.071	4.371	Chloride
3	5.30	0.200	-0.039	Nitrite
4	5.99	0.611	0.456	Bromide
5	6.80	0.775	0.211	Nitrate
6	9.44	235.105	47.185	Sulfate
6	12.00	267.802	52.393	

WV
 7/10/08

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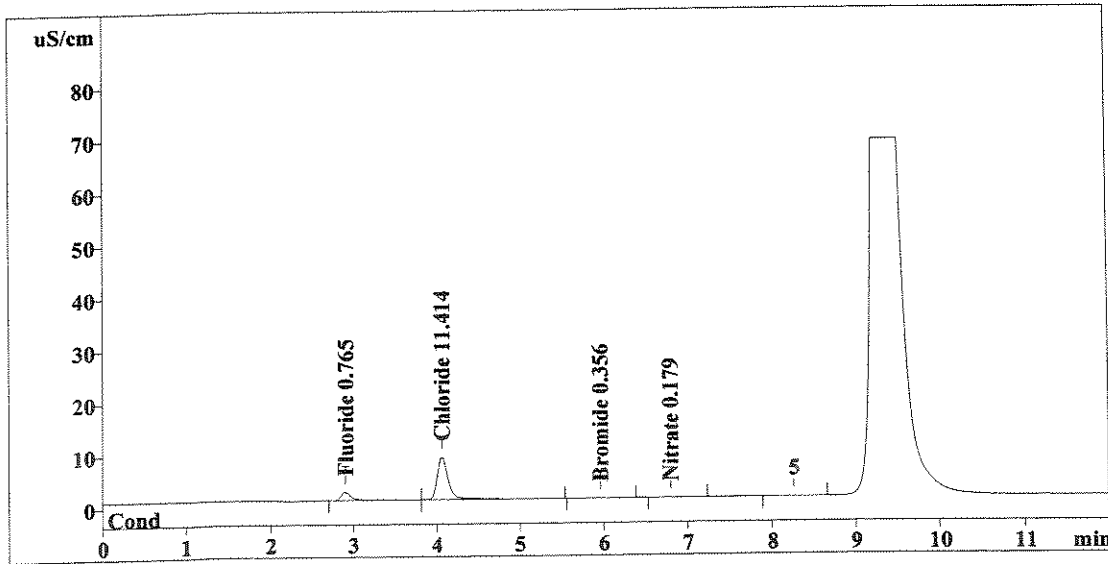
Method 300.0/9056

Report date: 7/9/2008 20:57:22
 Printed by: User
 Ident: 1115929
 Analysis from: 7/9/2008 20:45:24
 File: S7092045.CHW

Last save: 7/9/2008 20:57:23

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38019
 SAMPLE: CNS
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	13.798	0.765	Fluoride
2	4.06	73.135	11.414	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	0.327	0.356	Bromide
5	6.80	0.250	0.179	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	87.509	12.714	

Handwritten notes: 'OK' next to Chloride, 'OK 1/400' next to Bromide, and a signature '7/10/08' over the last row.

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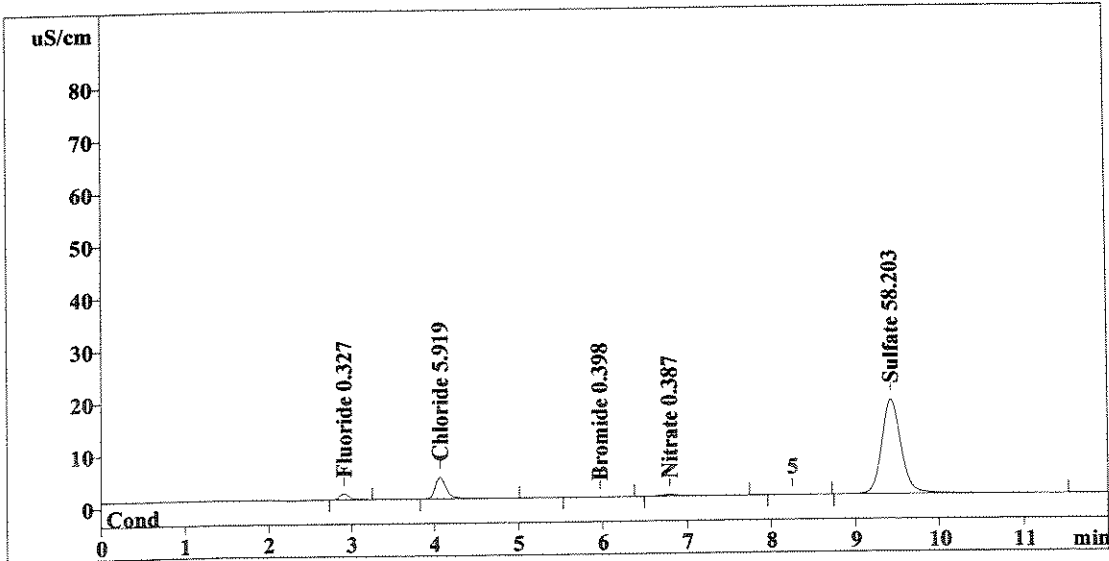
Method 300.0/9056

Report date: 7/9/2008 21:11:28
 Printed by: User
 Ident: 1115930
 Analysis from: 7/9/2008 20:59:29
 File: S7092059.CHW

Last save: 7/9/2008 21:11:29

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38020
 SAMPLE: CNS
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	9.026	0.327	Fluoride
2	4.07	37.197	5.919	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.448	0.398	Bromide
5	6.79	3.714	0.387	Nitrate
6	9.43	289.750	58.203	Sulfate
6	12.00	340.135	65.235	

Handwritten signature and date: 7/10/08

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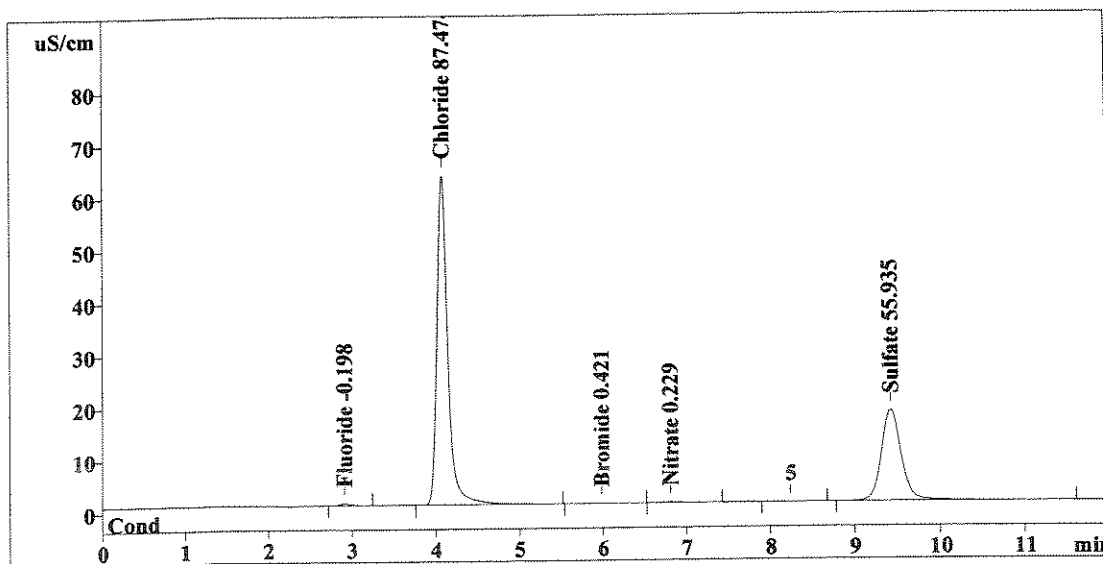
Ion Chromatography Analytical Report
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 Report date: 7/9/2008 21:25:33
 Printed by: User
 Ident: 1115931
 Analysis from: 7/9/2008 21:13:35
 File: S7092113.CHW

Method 300.0/9056

Last save: 7/9/2008 21:25:35

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38021
 SAMPLE: CNS
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	3.307	-0.198	Fluoride
2	4.07	570.645	87.474	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.513	0.421	Bromide
5	6.81	1.084	0.229	Nitrate
6	9.43	278.506	55.935	Sulfate
6	12.00	854.055	144.259	

Handwritten notes:
 1/20
 OK
 OK
 WJ 7/10/08

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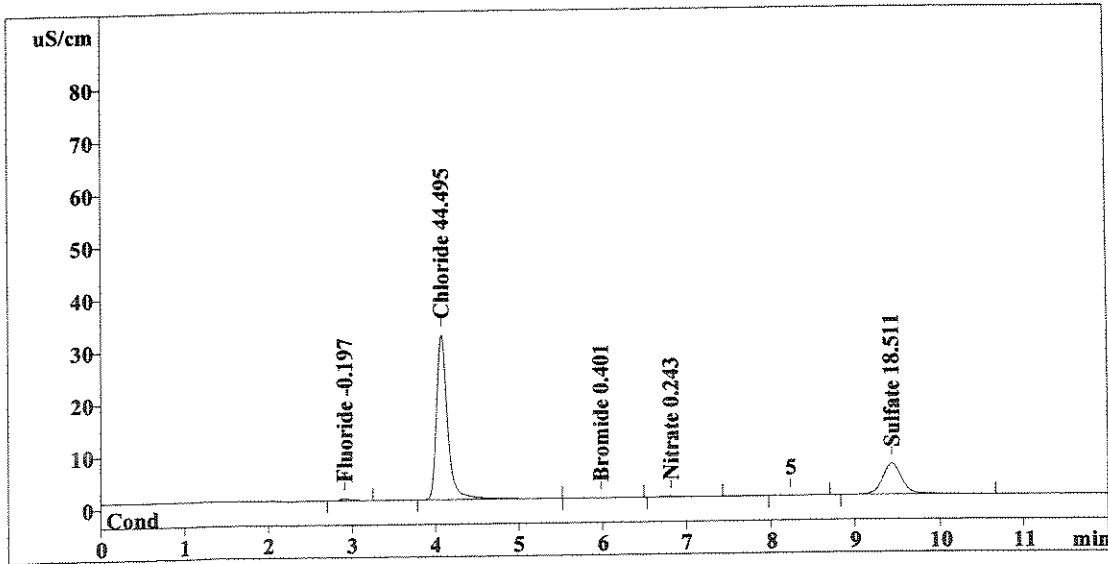
Method 300.0/9056

Report date: 7/9/2008 21:39:39
 Printed by: User
 Ident: 1115932
 Analysis from: 7/9/2008 21:27:41
 File: S7092127.CHW

Last save: 7/9/2008 21:39:41

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38022
 SAMPLE: CNS
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	3.317	-0.197	Fluoride
2	4.07	289.518	44.495	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	0.455	0.401	Bromide
5	6.82	1.310	0.243	Nitrate
6	9.44	92.885	18.511	Sulfate
6	12.00	387.485	63.847	

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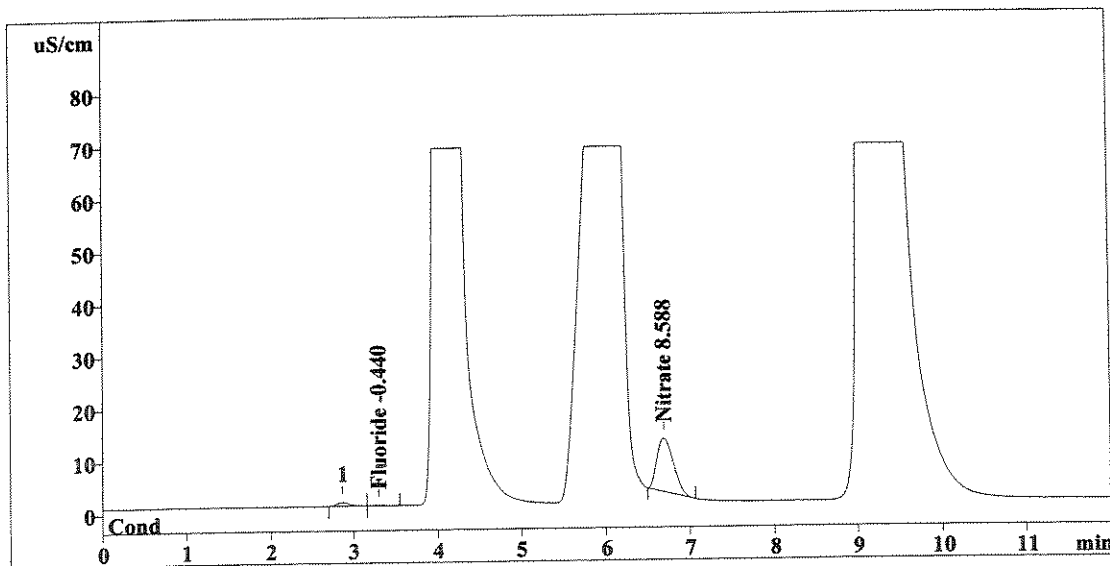
Method 300.0/9056

Report date: 7/9/2008 21:53:45
 Printed by: User
 Ident: 1115782
 Analysis from: 7/9/2008 21:41:47
 File: S7092141.CHW

Last save: 7/9/2008 21:53:47

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38023
 SAMPLE: CNNS
 Vial number: 9
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.30	0.679	-0.440	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	6.69	140.111	8.588	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	140.790	9.028	

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Handwritten signature and date: 7/10/08

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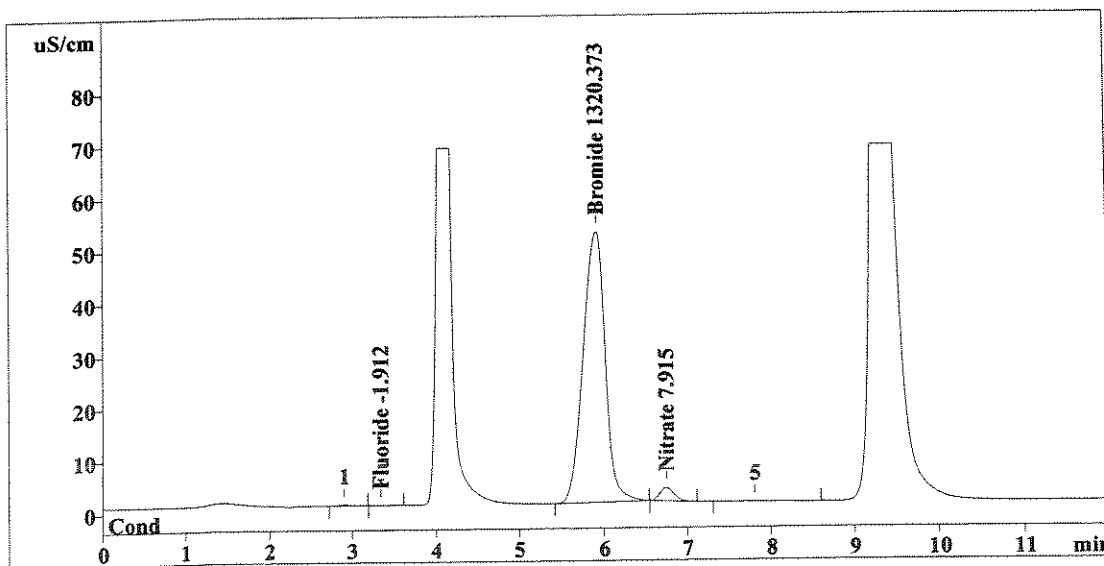
Method 300.0/9056

Report date: 7/9/2008 22:07:51
 Printed by: User
 Ident: 1115782
 Analysis from: 7/9/2008 21:55:53
 File: S7092155.CHW

Last save: 7/9/2008 22:07:53

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38024
 SAMPLE: CNNS
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.33	0.260	-1.912	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.92	932.560	1320.373	Bromide
5	6.75	30.181	7.915	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	963.001	1330.200	

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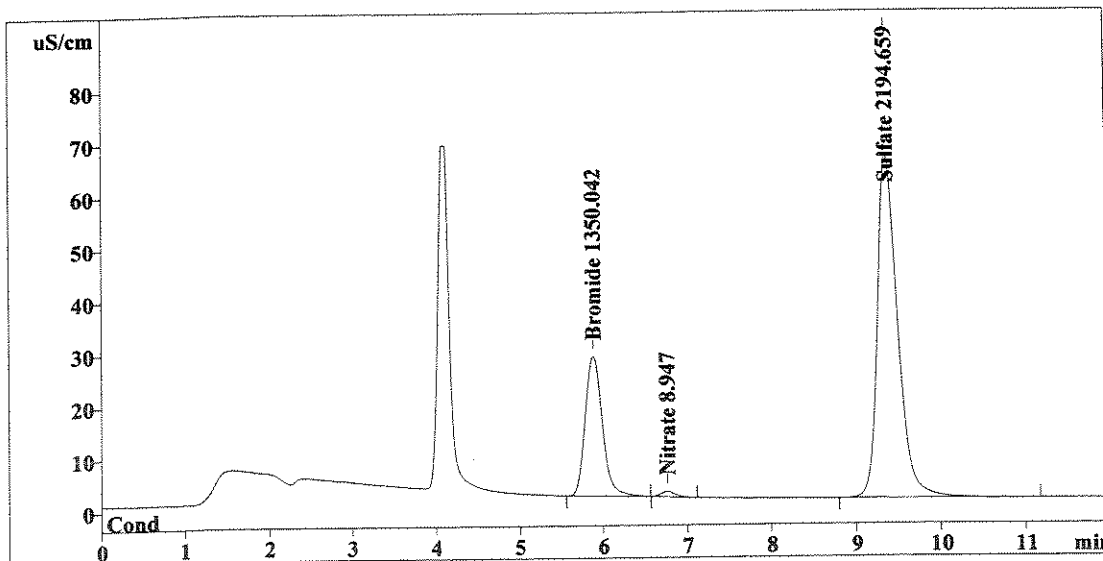
Method 300.0/9056

Report date: 7/9/2008 22:21:57
 Printed by: User
 Ident: 1115782
 Analysis from: 7/9/2008 22:09:58
 File: S7092209.CHW

Last save: 7/9/2008 22:21:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38025
 SAMPLE: CNNS
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



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	5.89	381.005	1350.042	Bromide
5	6.76	12.151	8.947	Nitrate
6	9.38	1089.606	2194.659	Sulfate
6	12.00	1482.762	3553.647	

Handwritten signature and date: 7/10/08

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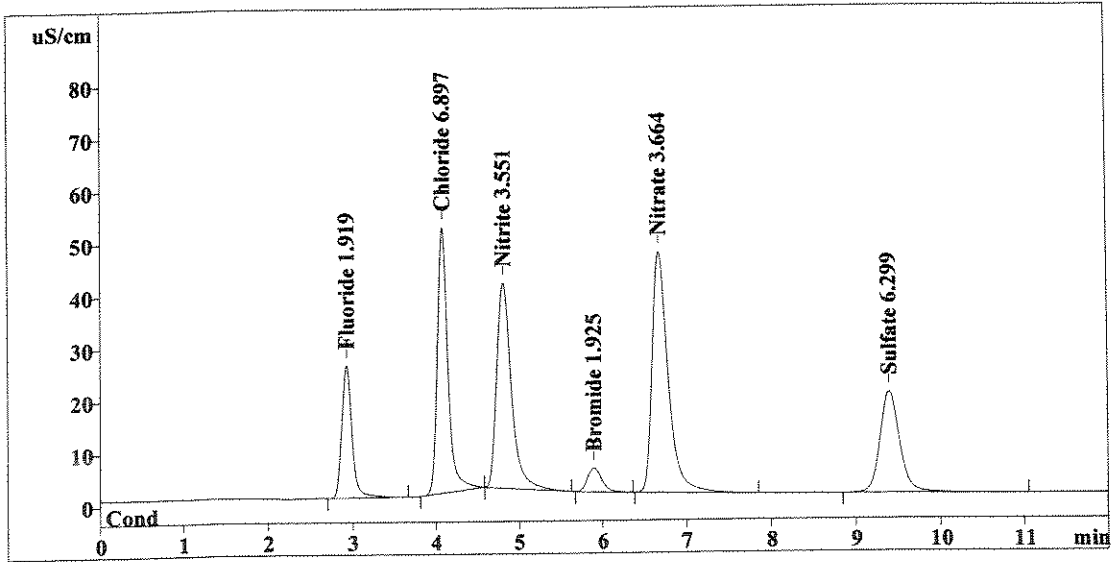
Method 300.0/9056

Report date: 7/9/2008 22:36:02
 Printed by: User
 Ident: CCV
 Analysis from: 7/9/2008 22:24:04
 File: S7092224.CHW

Last save: 7/9/2008 22:36:04

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38026
 SAMPLE:
 Vial number: 12
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	214.453	1.919	Fluoride
2	4.08	449.630	6.897	Chloride
3	4.81	483.133	3.551	Nitrite
4	5.90	53.740	1.925	Bromide
5	6.68	606.668	3.664	Nitrate
6	9.40	313.506	6.299	Sulfate
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6	12.00	2121.131	24.255	

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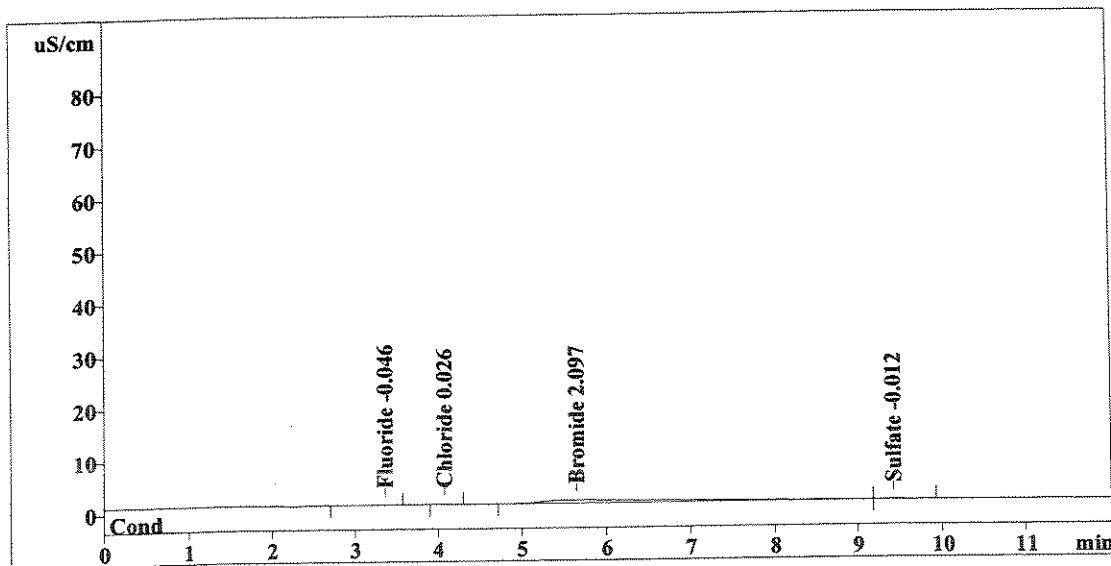
Method 300.0/9056

Report date: 7/9/2008 22:50:08
 Printed by: User
 Ident: CCB
 Analysis from: 7/9/2008 22:38:10
 File: S7092238.CHW

Last save: 7/9/2008 22:50:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38027
 SAMPLE:
 Vial number: 13
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.476	-0.046	Fluoride
2	4.08	0.208	0.026	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.65	58.606	2.097	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.43	0.470	-0.012	Sulfate
6	12.00	59.759	2.181	

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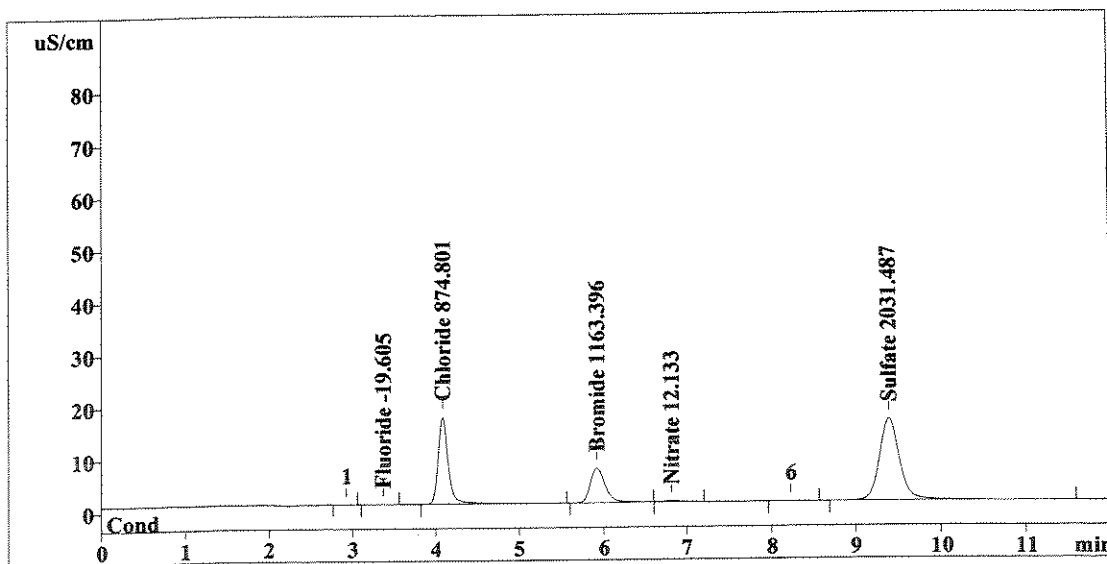
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/9/2008 23:04:14
 Printed by: User
 Ident: 1115782
 Analysis from: 7/9/2008 22:52:16
 File: S7092252.CHW

Method 300.0/9056

Last save: 7/9/2008 23:04:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38028
 SAMPLE: CNNS
 Vial number: 14
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.129	-19.605	Fluoride
2	4.08	141.529	874.801	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.92	81.550	1163.396	Bromide
5	6.82	2.316	12.133	Nitrate
6	9.40	252.971	2031.487	Sulfate
6	12.00	478.495	4101.421	

Handwritten signature and date: 7/10/08

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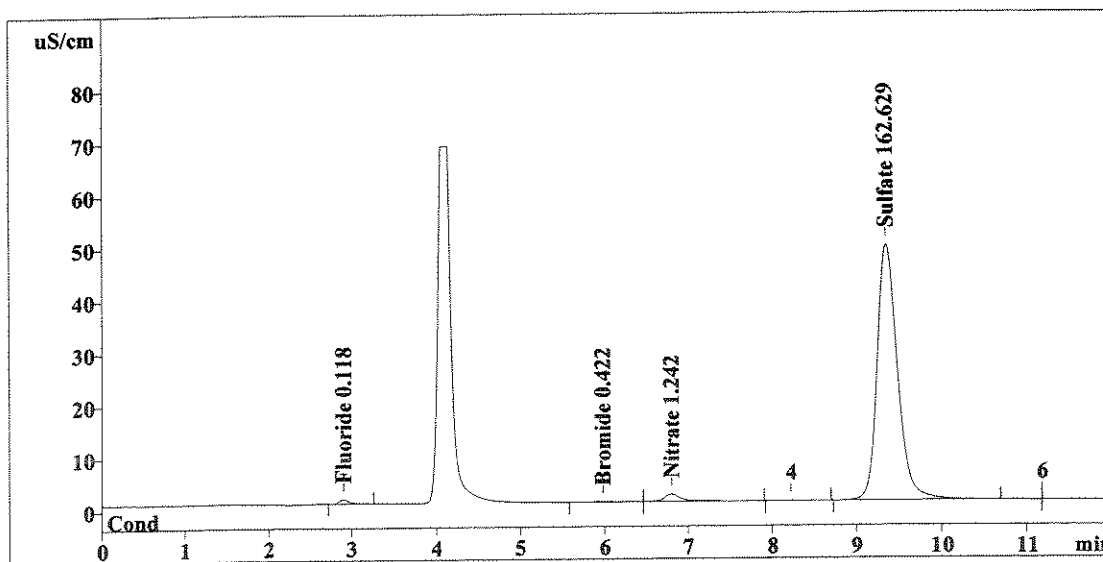
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/9/2008 23:18:20
 Printed by: User
 Ident: 1115783
 Analysis from: 7/9/2008 23:06:22
 File: S7092306.CHW

Method 300.0/9056

Last save: 7/9/2008 23:18:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38029
 SAMPLE: CNNS
 Vial number: 15
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	6.752	0.118	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.516	0.422	Bromide
5	6.80	17.933	1.242	Nitrate
6	9.37	807.698	162.629	Sulfate
6	12.00	832.899	164.412	

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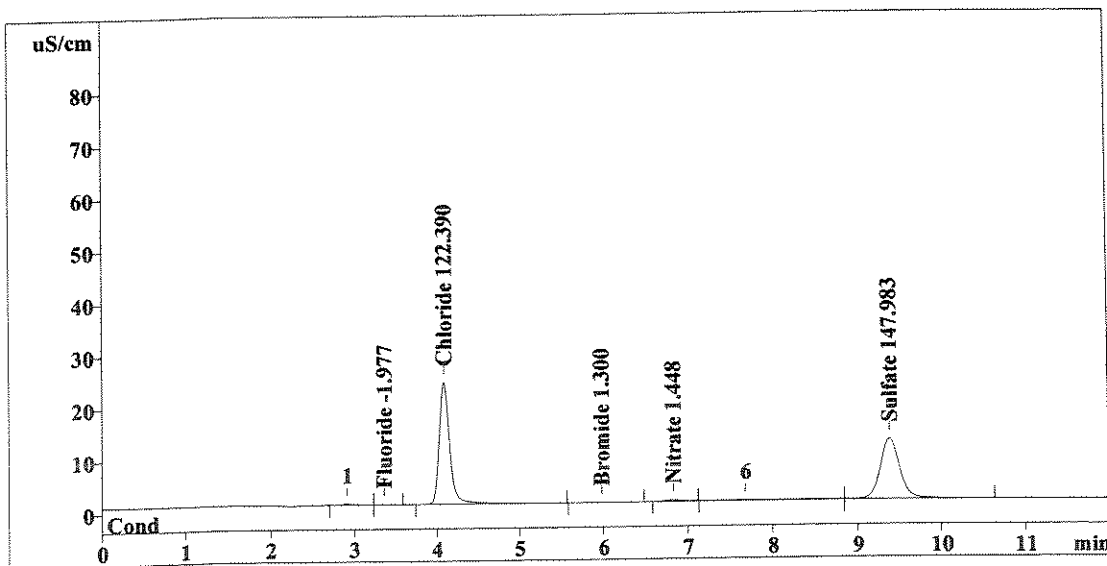
Method 300.0/9056

Report date: 7/9/2008 23:32:26
 Printed by: User
 Ident: 1115783
 Analysis from: 7/9/2008 23:20:28
 File: S7092320.CHW

Last save: 7/9/2008 23:32:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38030
 SAMPLE: CNNS
 Vial number: 16
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.085	-1.977	Fluoride
2	4.08	198.615	122.390	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.241	1.300	Bromide
5	6.83	3.292	1.448	Nitrate
6	9.39	184.566	147.983	Sulfate
6	12.00	386.798	275.097	

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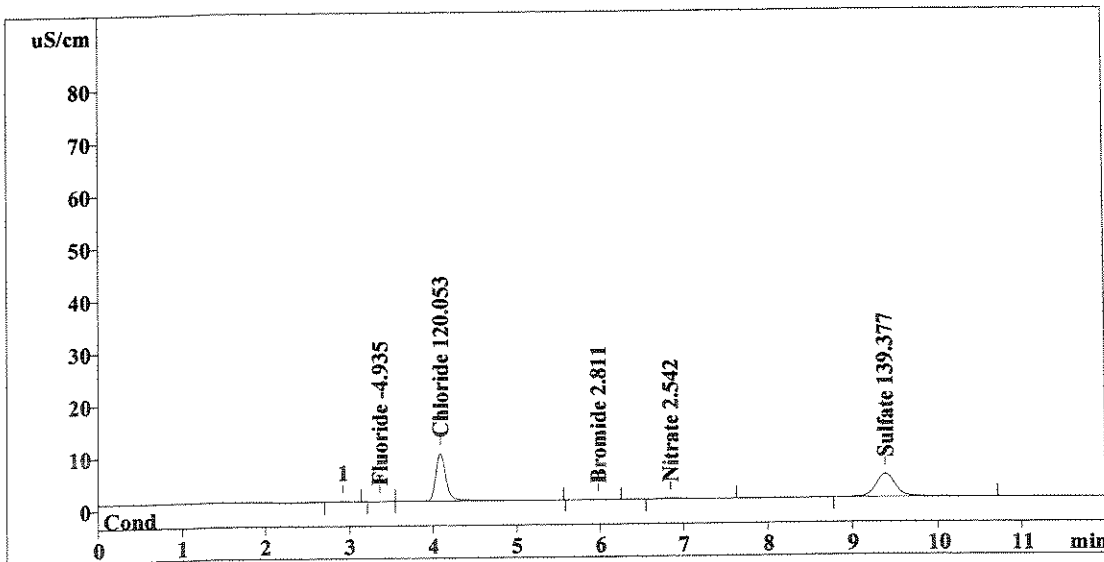
Method 300.0/9056

Report date: 7/9/2008 23:46:32
 Printed by: User
 Ident: 1115783
 Analysis from: 7/9/2008 23:34:34
 File: S7092334.CHW

Last save: 7/9/2008 23:46:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38031
 SAMPLE: CNNS
 Vial number: 17
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.092	-4.935	Fluoride
2	4.08	77.004	120.053	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.116	2.811	Bromide
5	6.85	1.498	2.542	Nitrate
6	9.39	70.200	139.377	Sulfate
6	12.00	148.911	269.717	

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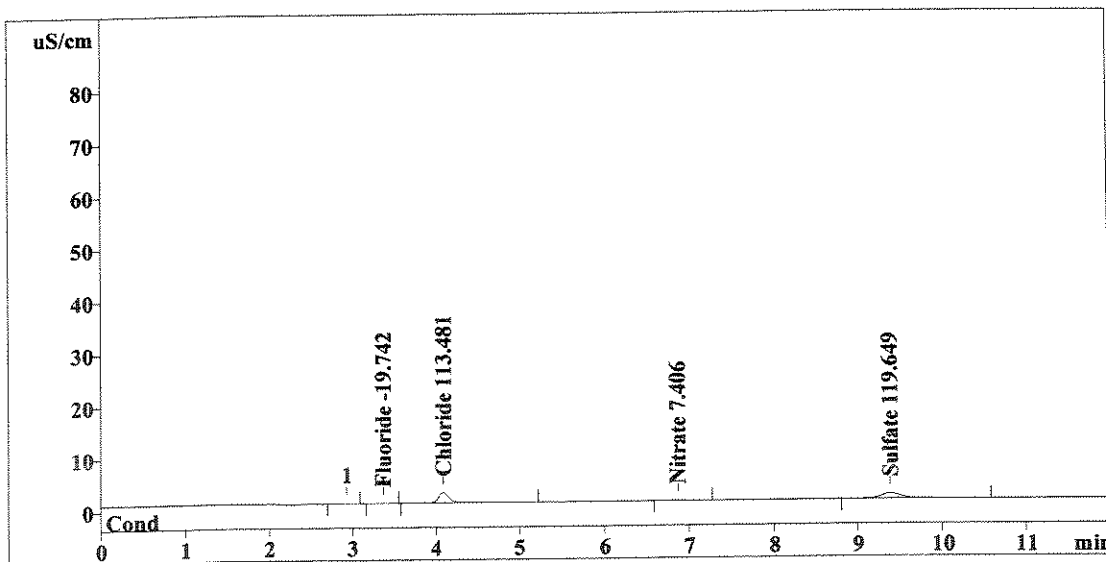
Method 300.0/9056

Report date: 7/10/2008 00:00:38
 Printed by: User
 Ident: 1115783
 Analysis from: 7/9/2008 23:48:39
 File: S7092348.CHW

Last save: 7/10/2008 00:00:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38032
 SAMPLE: CNNS
 Vial number: 18
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.092	-19.742	Fluoride
2	4.09	17.035	113.481	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.87	0.350	7.406	Nitrate
6	9.39	15.906	119.649	Sulfate
6	12.00	33.383	260.277	

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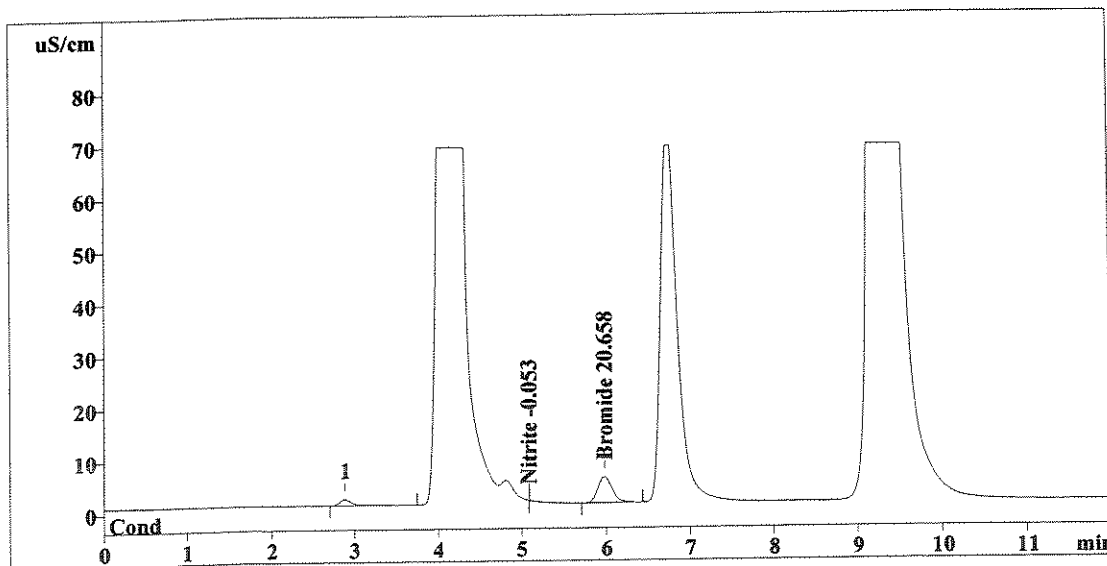
Method 300.0/9056

Report date: 7/10/2008 00:14:43
 Printed by: User
 Ident: 1115784
 Analysis from: 7/10/2008 00:02:45
 File: S7100002.CHW

Last save: 7/10/2008 00:14:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38033
 SAMPLE: CNNS
 Vial number: 19
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



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	5.09	-0.000	-0.053	Nitrite
4	5.98	57.725	20.658	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	57.725	20.711	

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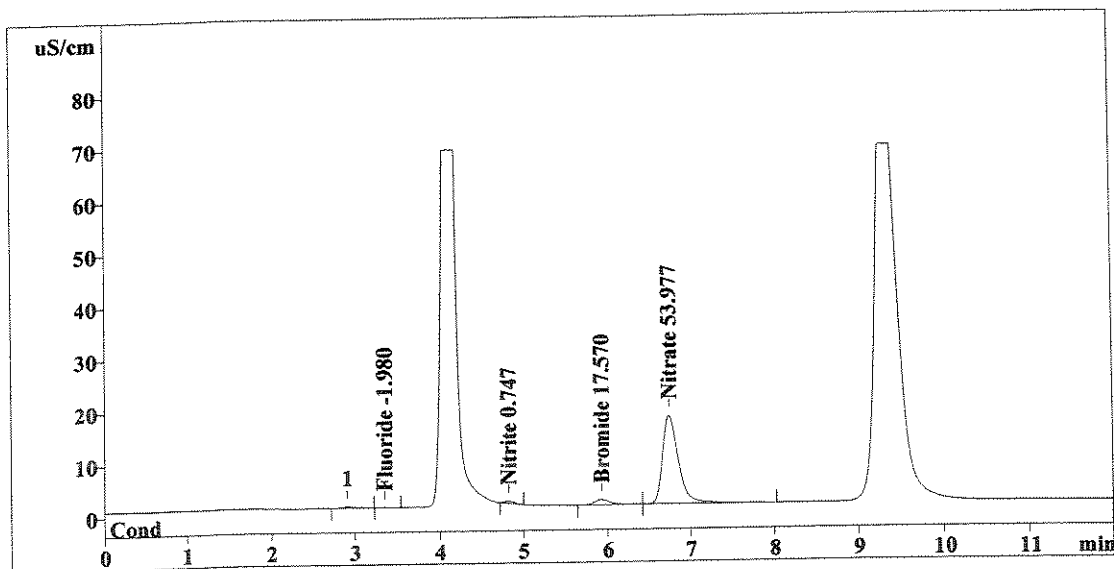
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 00:28:49
 Printed by: User
 Ident: 1115784
 Analysis from: 7/10/2008 00:16:51
 File: S7100016.CHW

Method 300.0/9056

Last save: 7/10/2008 00:28:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38034
 SAMPLE: CNNS
 Vial number: 20
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.077	-1.980	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.83	3.262	0.747	Nitrite
4	5.93	11.740	17.570	Bromide
5	6.74	221.714	53.977	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	236.793	74.273	

Handwritten marks: 'OK' next to rows 3 and 4, and a signature 'aw' with date '7/10/08' next to the final row.

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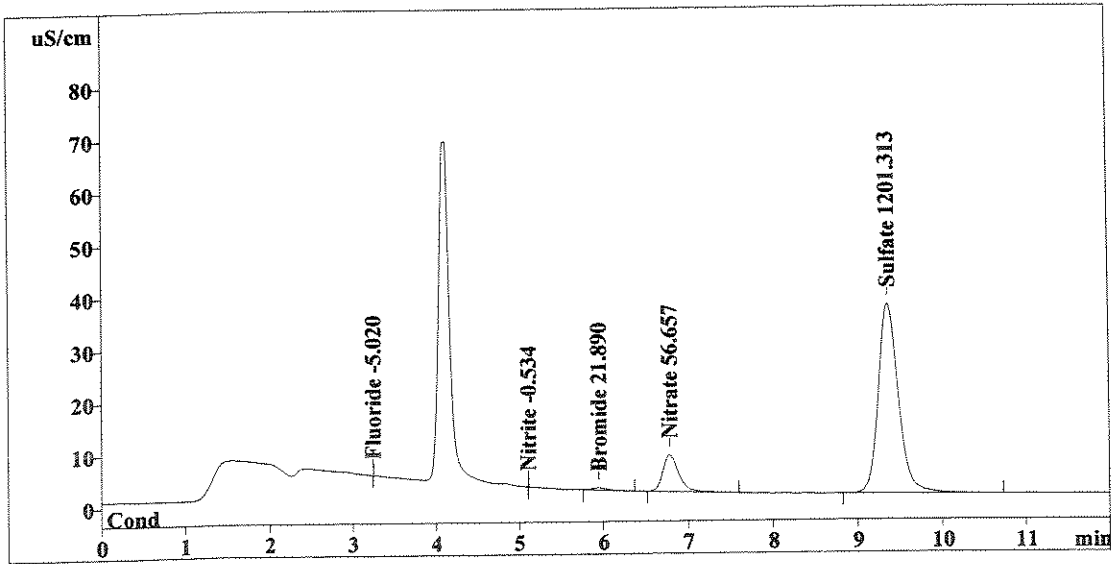
Method 300.0/9056

Report date: 7/10/2008 00:42:55
 Printed by: User
 Ident: 1115784
 Analysis from: 7/10/2008 00:30:57
 File: S7100030.CHW

Last save: 7/10/2008 00:42:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38035
 SAMPLE: CNNS
 Vial number: 21
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.24	-0.000	-5.020	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.11	-0.000	-0.534	Nitrite
4	5.95	5.511	21.890	Bromide
5	6.78	91.505	56.657	Nitrate
6	9.37	596.913	1201.313	Sulfate
6	12.00	693.929	1285.414	

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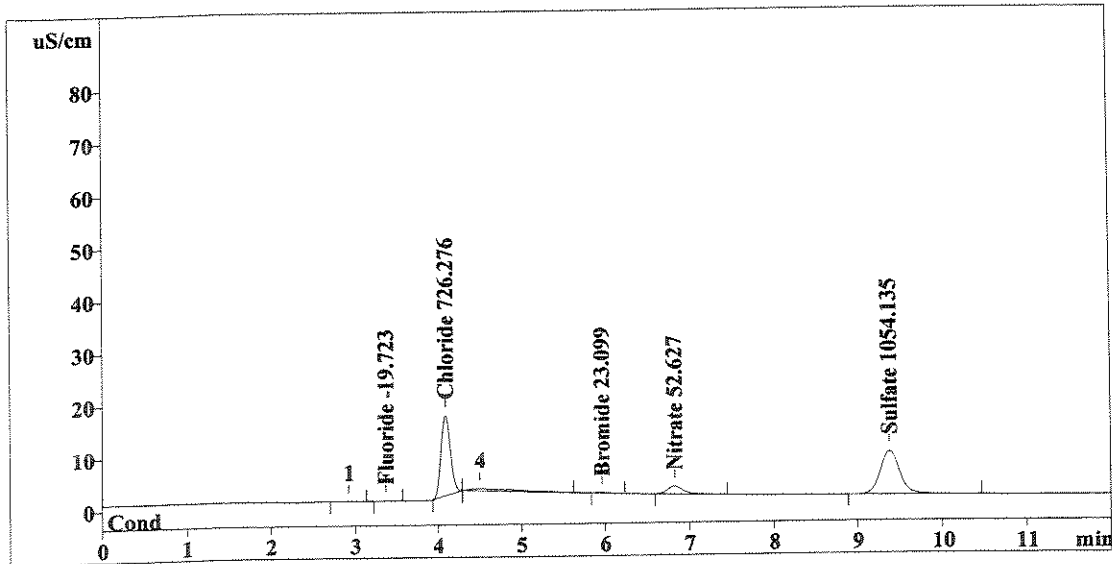
Method 300.0/9056

Report date: 7/10/2008 00:57:01
 Printed by: User
 Ident: 1115784
 Analysis from: 7/10/2008 00:45:03
 File: S7100045.CHW

Last save: 7/10/2008 00:57:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38036
 SAMPLE: CNNS
 Vial number: 22
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.097	-19.723	Fluoride
2	4.09	117.242	726.276	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.954	23.099	Bromide
5	6.82	19.154	52.627	Nitrate
6	9.38	131.781	1054.135	Sulfate
<hr/>				
6	12.00	269.227	1875.860	

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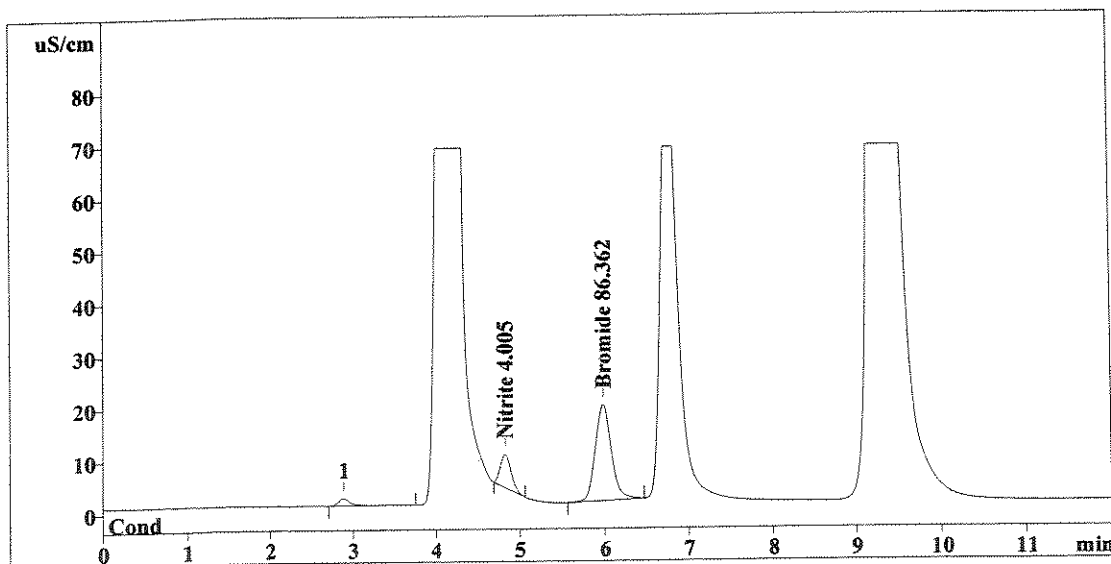
Method 300.0/9056

Report date: 7/10/2008 01:11:07
 Printed by: User
 Ident: 1115785
 Analysis from: 7/10/2008 00:59:09
 File: S7100059.CHW

Last save: 7/10/2008 01:11:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38037
 SAMPLE: CNNS
 Vial number: 23
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



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	4.83	55.145	4.005	Nitrite
4	5.98	243.483	86.362	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	298.628	90.367	

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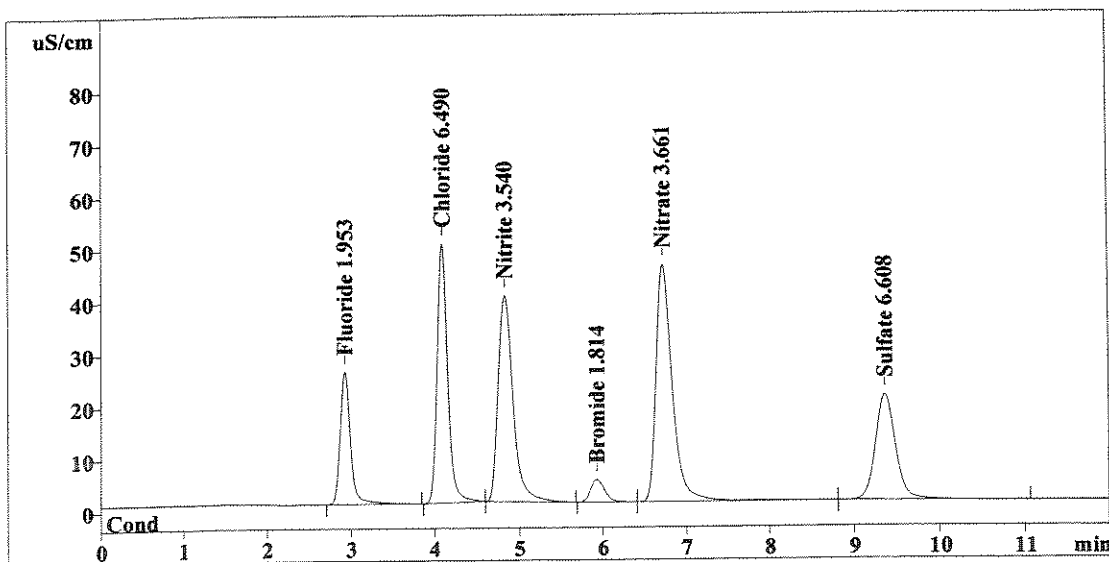
Method 300.0/9056

Report date: 7/10/2008 01:25:13
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 01:13:15
 File: S7100113.CHW

Last save: 7/10/2008 01:25:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38038
 SAMPLE:
 Vial number: 24
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	218.162	1.953	Fluoride
2	4.09	423.002	6.490	Chloride
3	4.82	481.665	3.540	Nitrite
4	5.93	50.603	1.814	Bromide
5	6.72	606.125	3.661	Nitrate
6	9.36	328.816	6.608	Sulfate
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6	12.00	2108.373	24.066	

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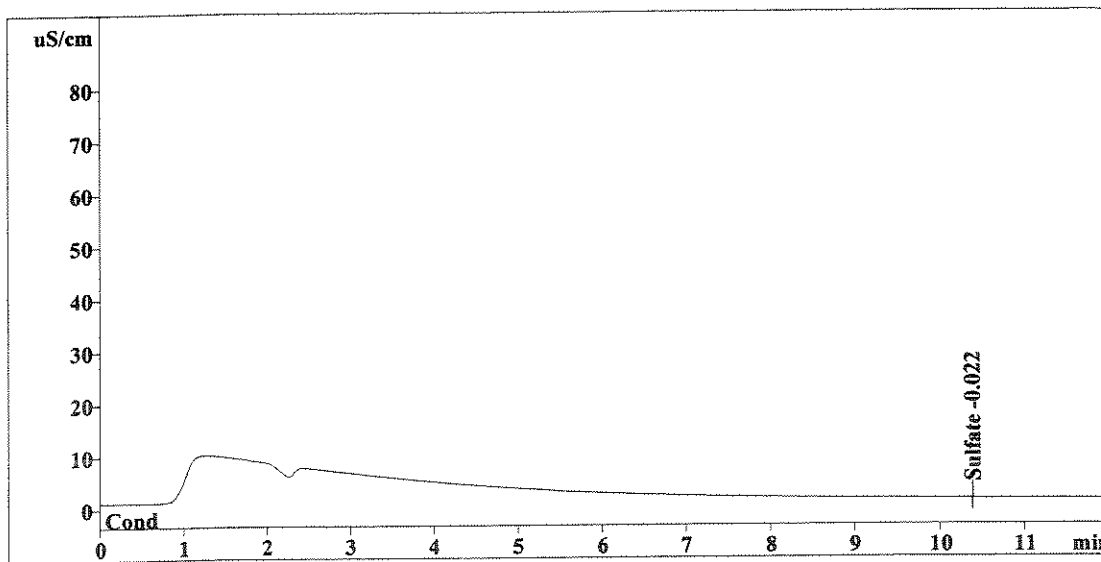
Method 300.0/9056

Report date: 7/10/2008 01:39:21
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 01:27:21
 File: S7100127.CHW

Last save: 7/10/2008 01:39:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38039
 SAMPLE:
 Vial number: 25
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



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	10.39	-0.000	-0.022	Sulfate
6	12.00	0.000	0.022	

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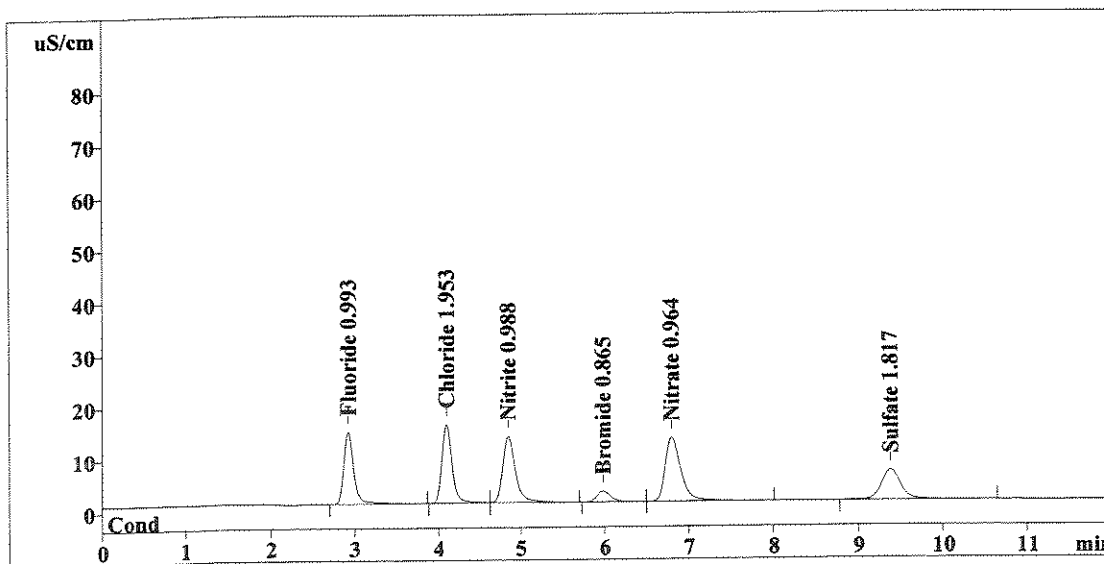
Method 300.0/9056

Report date: 7/10/2008 01:53:27
 Printed by: User
 Ident: LCS
 Analysis from: 7/10/2008 01:41:29
 File: S7100141.CHW

Last save: 7/10/2008 01:53:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38040
 SAMPLE:
 Vial number: 26
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	113.551	0.993	Fluoride
2	4.09	126.208	1.953	Chloride
3	4.84	134.908	0.988	Nitrite
4	5.98	23.784	0.865	Bromide
5	6.80	157.670	0.964	Nitrate
6	9.38	91.179	1.817	Sulfate
<hr/>				
6	12.00	647.300	7.579	

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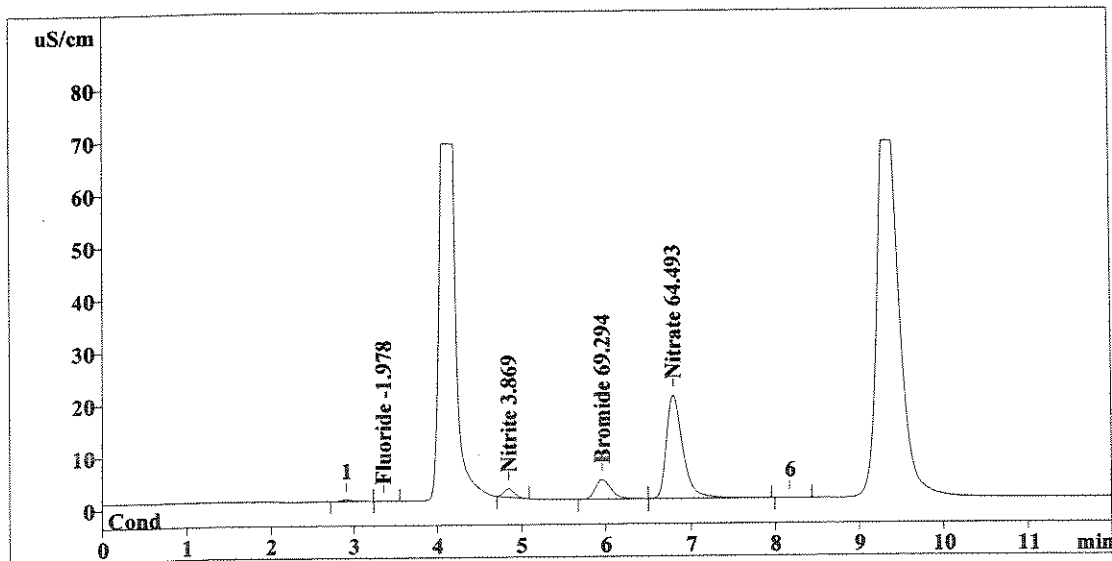
Method 300.0/9056

Report date: 7/10/2008 02:07:33
 Printed by: User
 Ident: 1115785
 Analysis from: 7/10/2008 01:55:35
 File: S7100155.CHW

Last save: 7/10/2008 02:07:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38041
 SAMPLE: CNNS
 Vial number: 27
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.082	-1.978	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.84	13.867	3.869	Nitrite
4	5.96	48.298	69.294	Bromide
5	6.79	265.437	64.493	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	327.685	139.633	

Handwritten signature and date: 7/10/08

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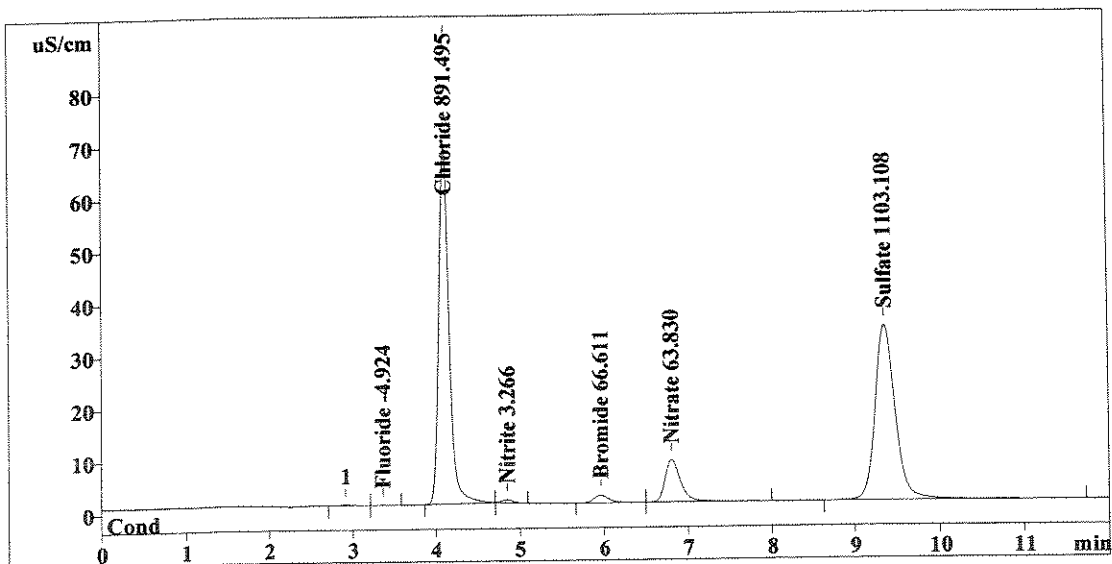
Method 300.0/9056

Report date: 7/10/2008 02:21:39
 Printed by: User
 Ident: 1115785
 Analysis from: 7/10/2008 02:09:41
 File: S7100209.CHW

Last save: 7/10/2008 02:21:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38042
 SAMPLE: CNNS
 Vial number: 28
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.104	-4.924	Fluoride
2	4.09	581.602	891.495	Chloride
3	4.85	5.163	3.266	Nitrite
4	5.96	18.154	66.611	Bromide
5	6.80	103.435	63.830	Nitrate
6	9.36	548.204	1103.108	Sulfate
6	12.00	1256.661	2133.234	

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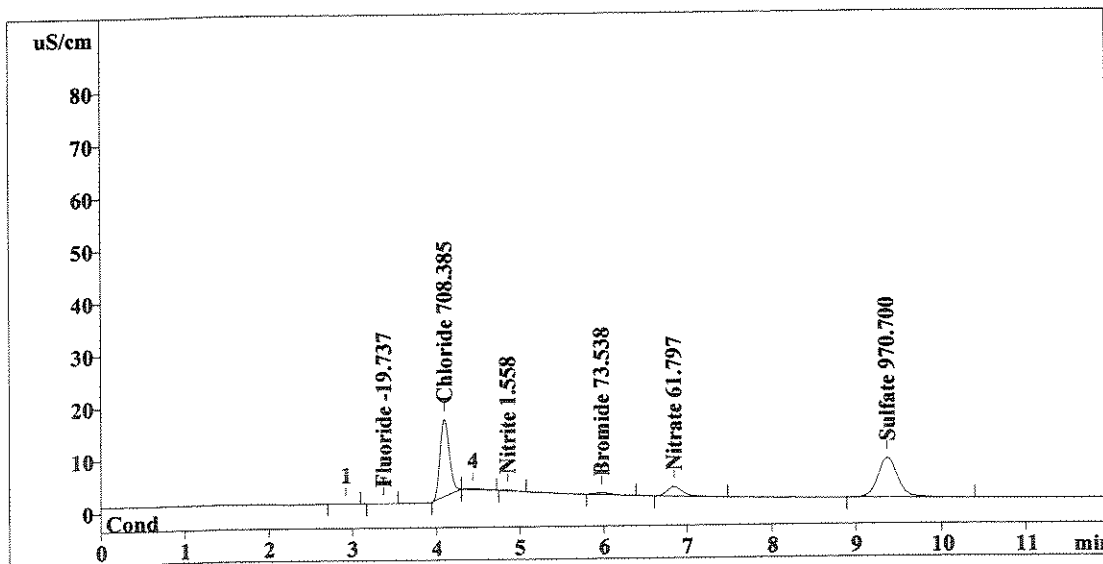
Method 300.0/9056

Report date: 7/10/2008 02:35:45
 Printed by: User
 Ident: 1115785
 Analysis from: 7/10/2008 02:23:47
 File: S7100223.CHW

Last save: 7/10/2008 02:35:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38043
 SAMPLE: CNNS
 Vial number: 29
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.093	-19.737	Fluoride
2	4.09	114.316	708.385	Chloride
3	4.86	1.254	1.558	Nitrite
4	5.97	4.519	73.538	Bromide
5	6.85	22.966	61.797	Nitrate
6	9.37	121.435	970.700	Sulfate
6	12.00	264.584	1835.714	

OK
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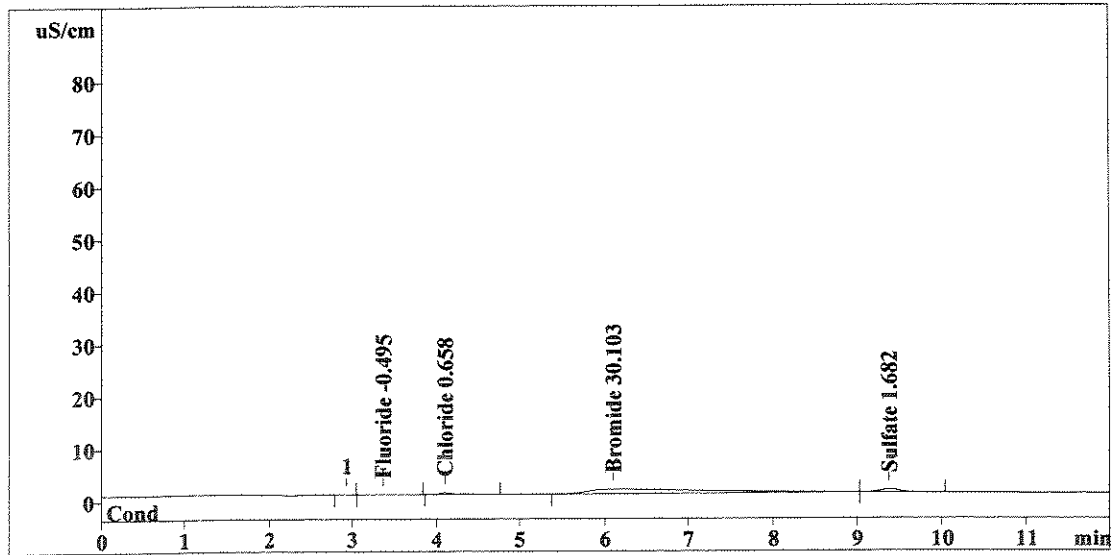
Method 300.0/9056

Report date: 7/10/2008 02:49:51
 Printed by: User
 Ident: 1114371
 Analysis from: 7/10/2008 02:37:53
 File: S7100237.CHW

Last save: 7/10/2008 02:49:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38044
 SAMPLE: CS
 Vial number: 30
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.074	-0.495	Fluoride
2	4.10	2.783	0.658	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.10	84.427	30.103	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.38	9.411	1.682	Sulfate
6	12.00	96.696	32.938	

Rpt 1/10
7/10/08

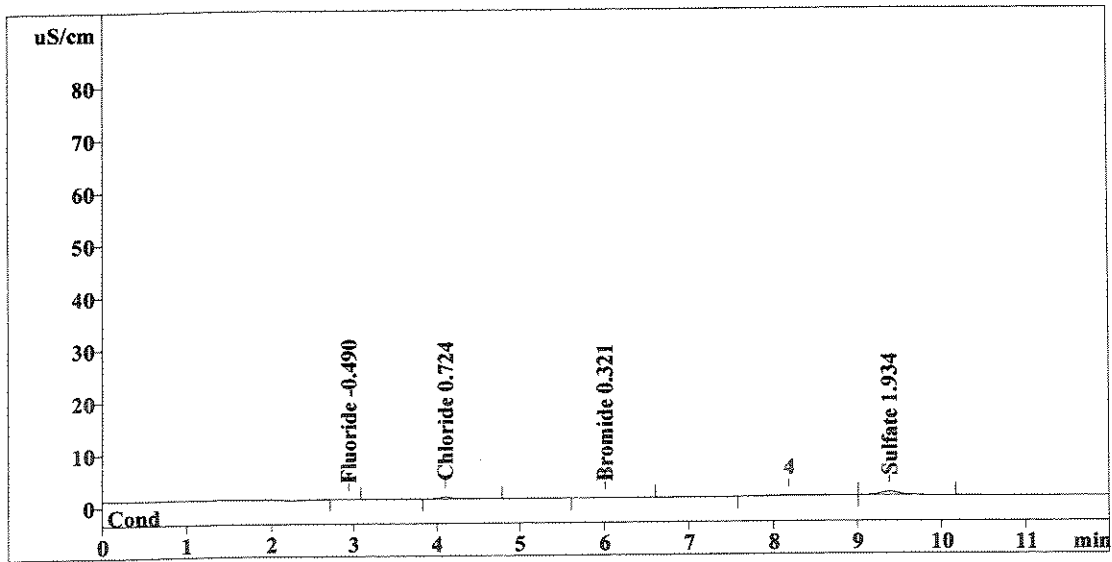
This report has been created by IC Net
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Report date: 7/10/2008 03:03:58
 Printed by: User
 Ident: 1114372
 Analysis from: 7/10/2008 02:51:59
 File: S7100251.CHW

Last save: 7/10/2008 03:03:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38045
 SAMPLE: CS
 Vial number: 31
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	0.130	-0.490	Fluoride
2	4.10	3.213	0.724	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.01	0.229	0.321	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.39	10.663	1.934	Sulfate
6	12.00	14.236	3.469	

OK
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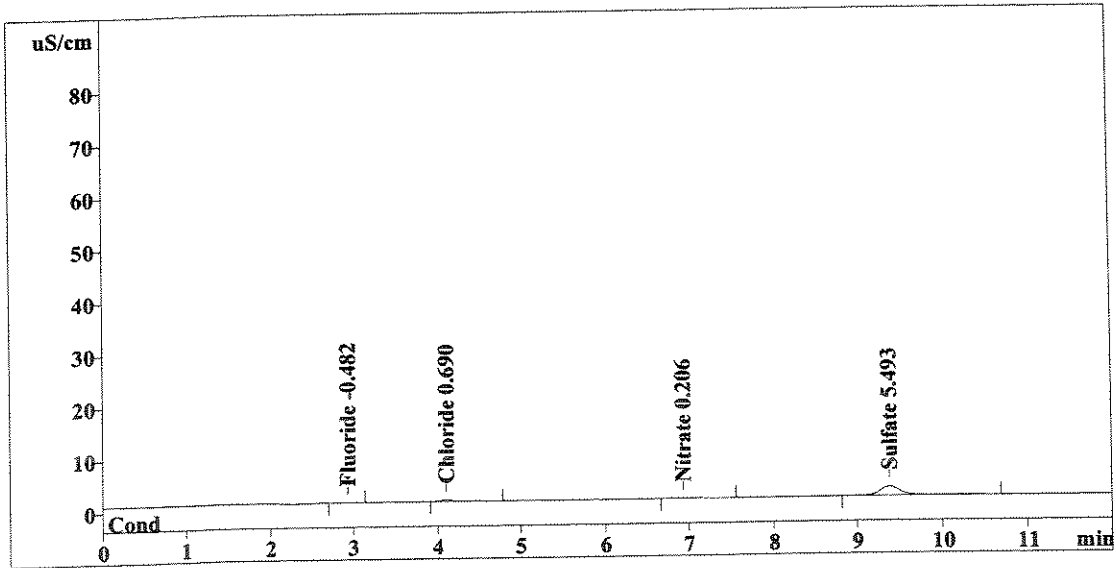
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 03:18:04
 Printed by: User
 Ident: 1114373
 Analysis from: 7/10/2008 03:06:05
 File: S7100306.CHW

Method 300.0/9056

Last save: 7/10/2008 03:18:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38046
 SAMPLE: CS
 Vial number: 32
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	0.220	-0.482	Fluoride
2	4.10	2.994	0.690	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.93	0.690	0.206	Nitrate
6	9.39	28.313	5.493	Sulfate
6	12.00	32.217	6.870	

Handwritten: OK

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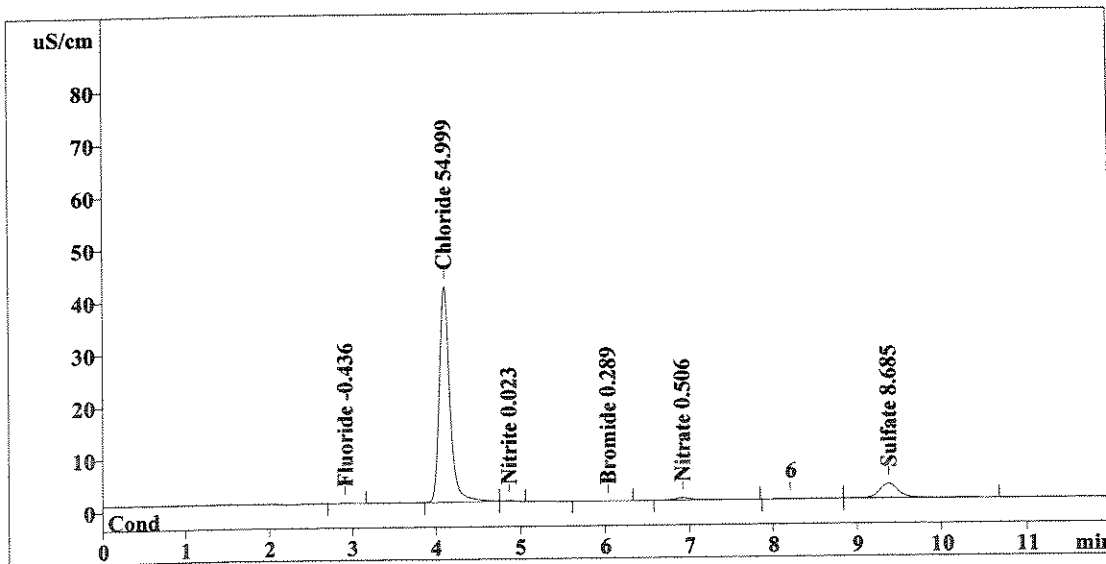
Method 300.0/9056

Report date: 7/10/2008 03:32:10
 Printed by: User
 Ident: 1114691
 Analysis from: 7/10/2008 03:20:11
 File: S7100320.CHW

Last save: 7/10/2008 03:32:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38047
 SAMPLE: CS
 Vial number: 33
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.723	-0.436	Fluoride
2	4.10	358.223	54.999	Chloride
3	4.87	1.035	0.023	Nitrite
4	6.05	0.140	0.289	Bromide
5	6.91	5.691	0.506	Nitrate
6	9.38	44.149	8.685	Sulfate
<hr/>				
6	12.00	409.961	64.938	

Handwritten signature and date: SM 7/10/08

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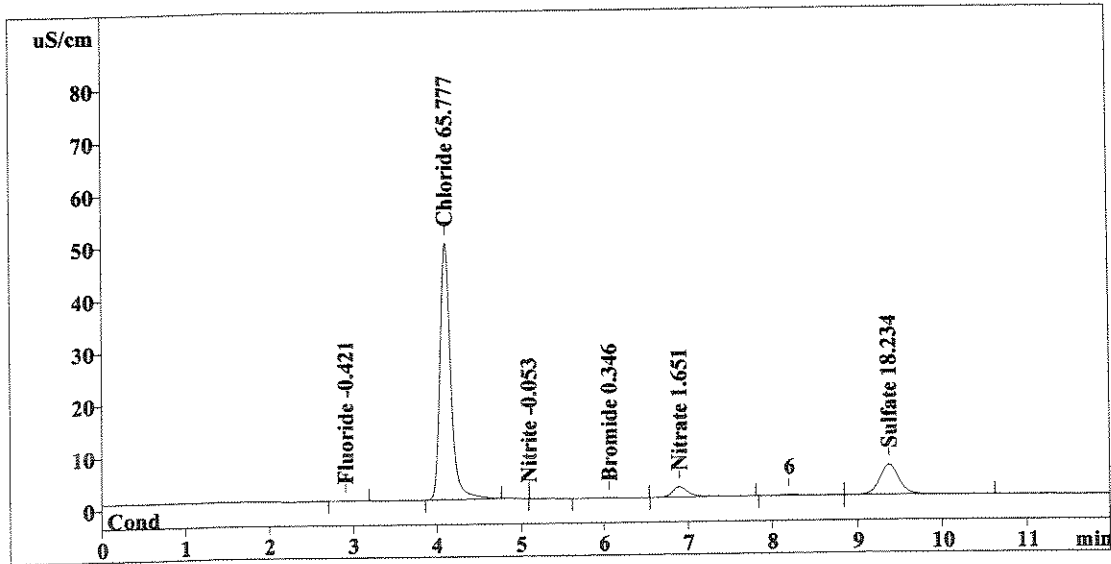
Method 300.0/9056

Report date: 7/10/2008 03:46:16
 Printed by: User
 Ident: 1114692
 Analysis from: 7/10/2008 03:34:17
 File: S7100334.CHW

Last save: 7/10/2008 03:46:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38048
 SAMPLE: CS
 Vial number: 34
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	0.883	-0.421	Fluoride
2	4.10	428.726	65.777	Chloride
3	5.09	-0.000	-0.053	Nitrite
4	6.07	0.300	0.346	Bromide
5	6.89	24.738	1.651	Nitrate
6	9.37	91.507	18.234	Sulfate
<hr/>				
6	12.00	546.154	86.483	

Handwritten signature and date: 7/10/08

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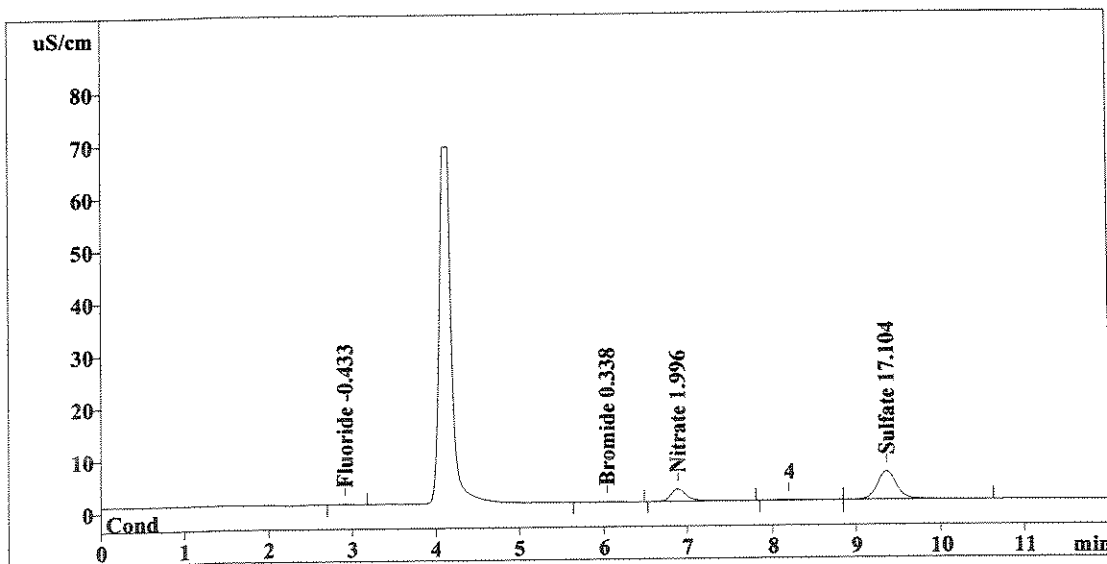
Method 300.0/9056

Report date: 7/10/2008 04:00:22
 Printed by: User
 Ident: 1114693
 Analysis from: 7/10/2008 03:48:24
 File: S7100348.CHW

Last save: 7/10/2008 04:00:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38049
 SAMPLE: CS
 Vial number: 35
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.746	-0.433	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.05	0.276	0.338	Bromide
5	6.89	30.475	1.996	Nitrate
6	9.36	85.902	17.104	Sulfate
6	12.00	117.399	19.871	

OK
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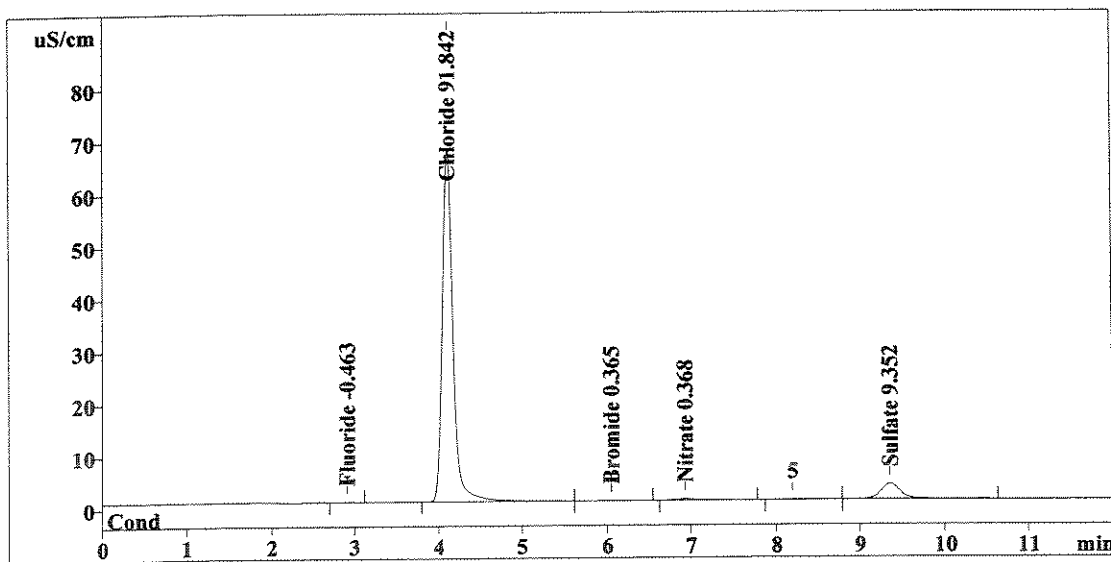
Method 300.0/9056

Report date: 7/10/2008 04:14:28
 Printed by: User
 Ident: 1114694
 Analysis from: 7/10/2008 04:02:29
 File: S7100402.CHW

Last save: 7/10/2008 04:14:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38050
 SAMPLE: CS
 Vial number: 36
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.423	-0.463	Fluoride
2	4.10	599.213	91.842	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.05	0.353	0.365	Bromide
5	6.93	3.387	0.368	Nitrate
6	9.36	47.455	9.352	Sulfate
6	12.00	650.831	102.389	

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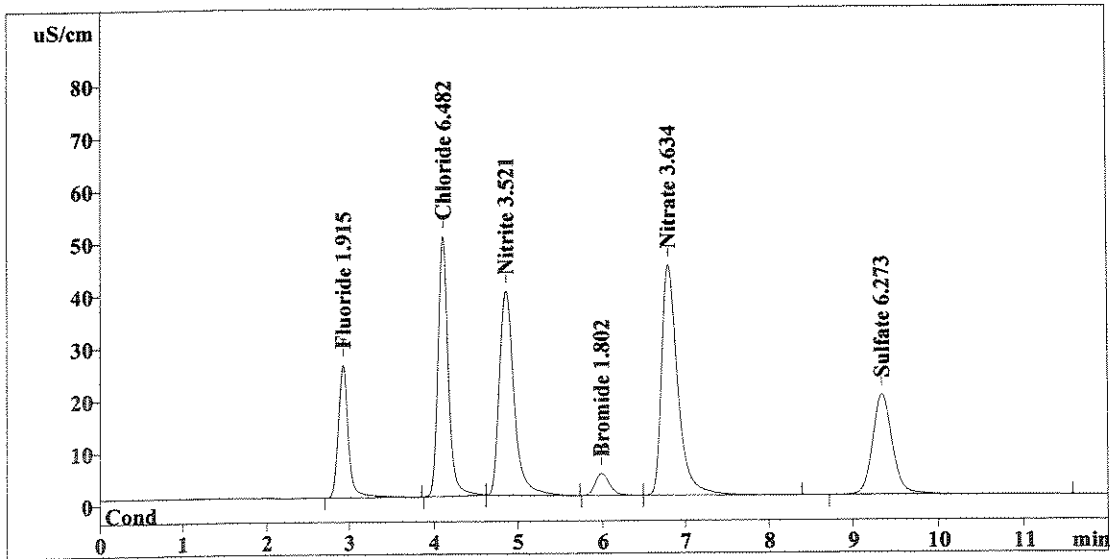
Method 300.0/9056

Report date: 7/10/2008 04:28:34
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 04:16:36
 File: S7100416.CHW

Last save: 7/10/2008 04:28:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38051
 SAMPLE:
 Vial number: 37
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	213.991	1.915	Fluoride
2	4.10	422.453	6.482	Chloride
3	4.85	479.122	3.521	Nitrite
4	5.99	50.271	1.802	Bromide
5	6.79	601.725	3.634	Nitrate
6	9.34	312.224	6.273	Sulfate
6	12.00	2079.786	23.628	

OK
↓

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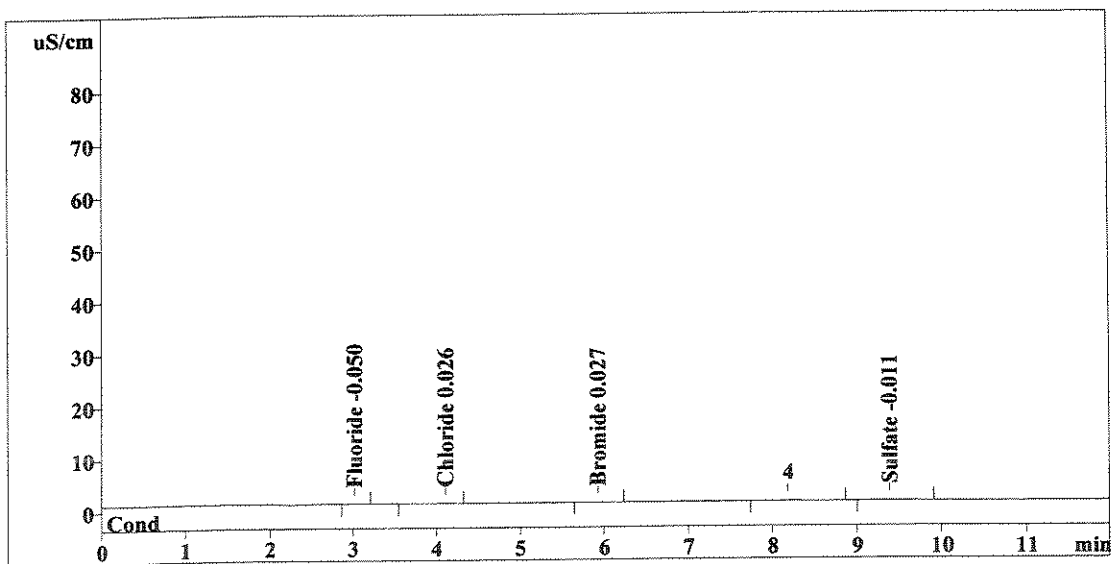
Method 300.0/9056

Report date: 7/10/2008 04:42:40
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 04:30:42
 File: S7100430.CHW

Last save: 7/10/2008 04:42:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38052
 SAMPLE:
 Vial number: 38
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.01	0.072	-0.050	Fluoride
2	4.10	0.197	0.026	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.074	0.027	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.39	0.547	-0.011	Sulfate
6	12.00	0.890	0.113	

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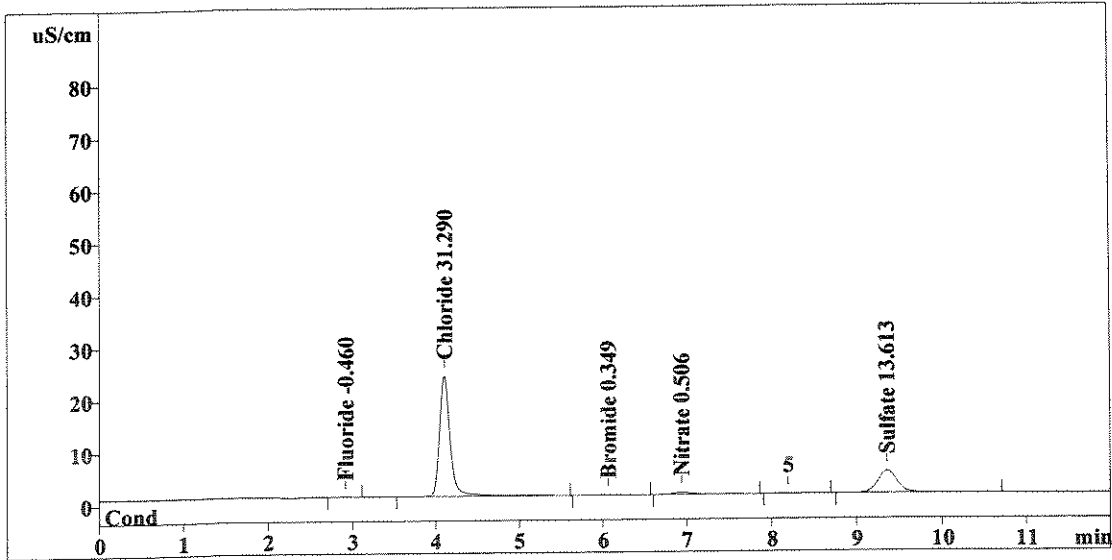
Method 300.0/9056

Report date: 7/10/2008 04:56:46
 Printed by: User
 Ident: 1114696
 Analysis from: 7/10/2008 04:44:48
 File: S7100444.CHW

Last save: 7/10/2008 04:56:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38053
 SAMPLE: CS
 Vial number: 39
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.454	-0.460	Fluoride
2	4.10	203.147	31.290	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.06	0.308	0.349	Bromide
5	6.94	5.680	0.506	Nitrate
6	9.36	68.591	13.613	Sulfate
<hr/>				
6	12.00	278.181	46.218	

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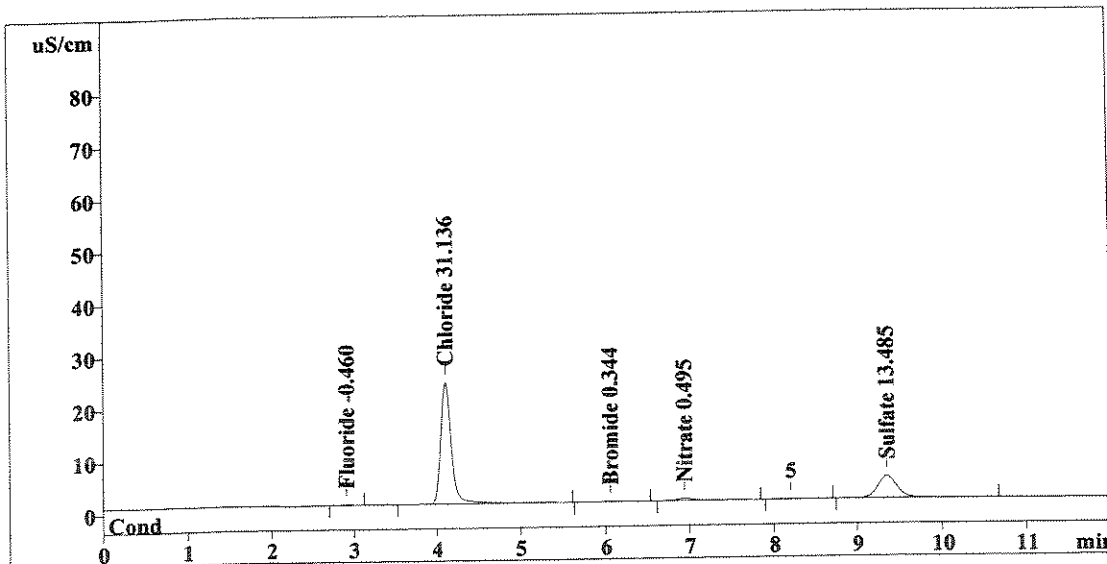
Method 300.0/9056

Report date: 7/10/2008 05:10:52
 Printed by: User
 Ident: 1114696 DUP
 Analysis from: 7/10/2008 04:58:54
 File: S7100458.CHW

Last save: 7/10/2008 05:10:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38054
 SAMPLE: CS
 Vial number: 40
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.455	-0.460	Fluoride
2	4.10	202.139	31.136	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.06	0.294	0.344	Bromide
5	6.94	5.507	0.495	Nitrate
6	9.35	67.957	13.485	Sulfate
<hr/>				
6	12.00	276.351	45.921	

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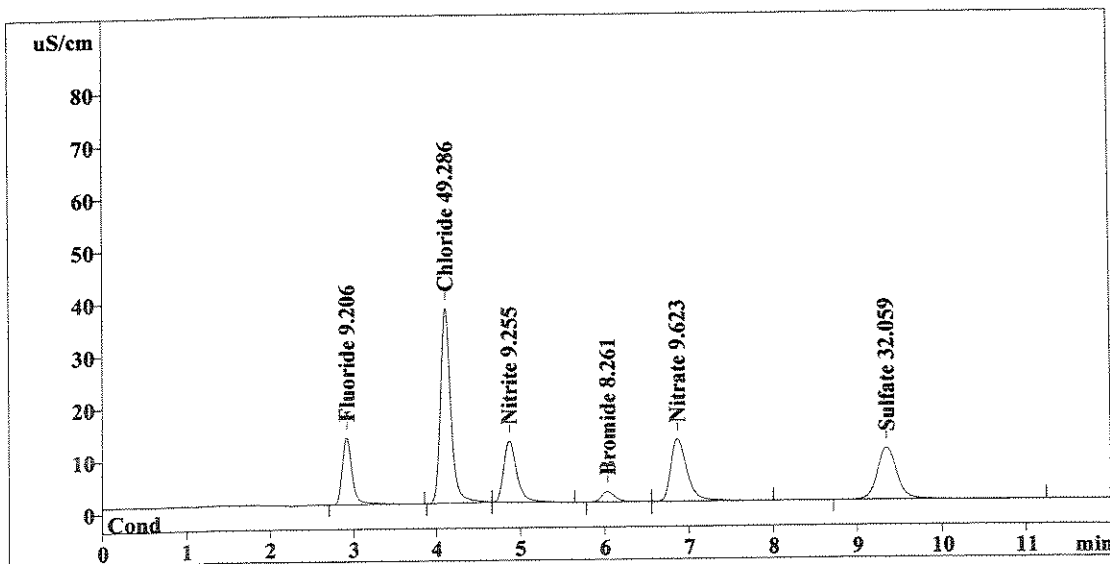
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 Report date: 7/10/2008 05:25:00
 Printed by: User
 Ident: 1114696 SPK
 Analysis from: 7/10/2008 05:13:00
 File: S7100513.CHW

Method 300.0/9056

Last save: 7/10/2008 05:24:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38055
 SAMPLE: CS
 Vial number: 41
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	105.702	9.206	Fluoride
2	4.10	320.853	49.286	Chloride
3	4.87	126.472	9.255	Nitrite
4	6.04	22.678	8.261	Bromide
5	6.86	157.320	9.623	Nitrate
6	9.35	160.081	32.059	Sulfate
6	12.00	893.107	17.690	

OK
OK
 CMT
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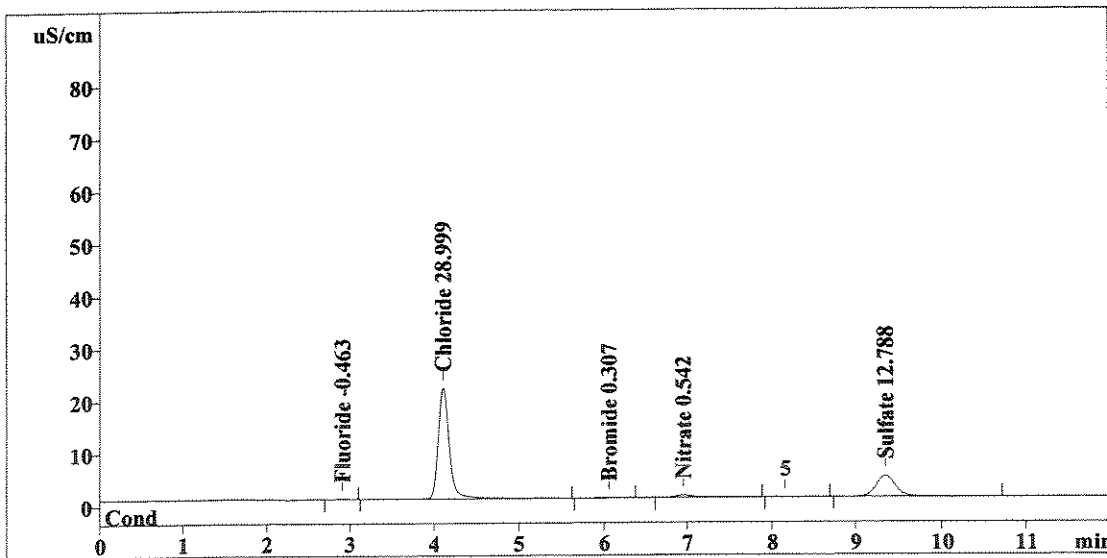
Method 300.0/9056

Report date: 7/10/2008 05:39:12
 Printed by: User
 Ident: 1114697
 Analysis from: 7/10/2008 05:27:14
 File: S7100527.CHW

Last save: 7/10/2008 05:39:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38056
 SAMPLE: CS
 Vial number: 42
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.422	-0.463	Fluoride
2	4.11	188.162	28.999	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.06	0.190	0.307	Bromide
5	6.95	6.286	0.542	Nitrate
6	9.35	64.496	12.788	Sulfate
6	12.00	259.556	43.100	

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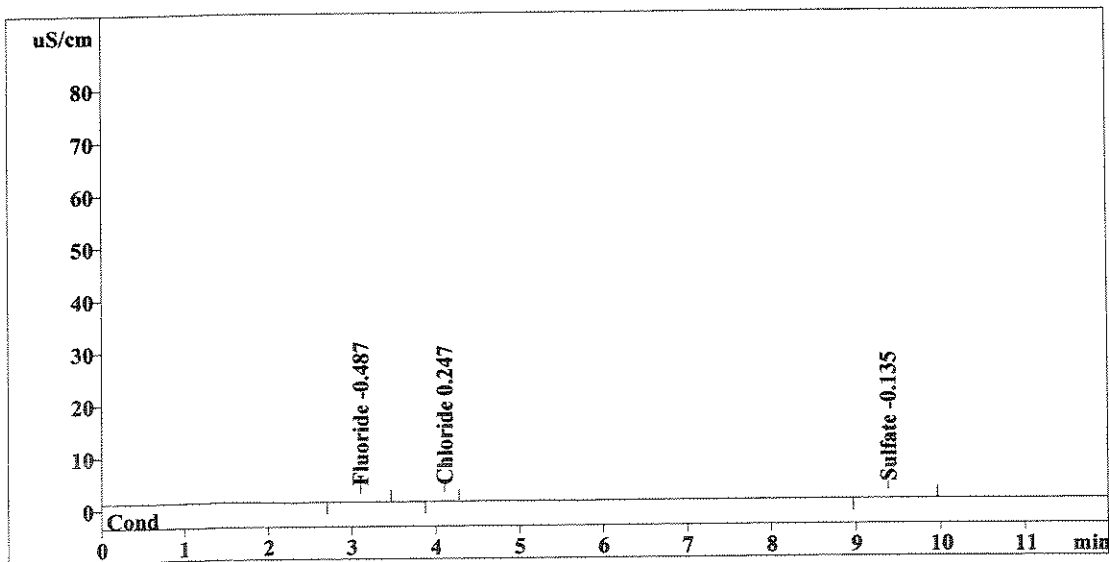
Method 300.0/9056

Report date: 7/10/2008 05:53:18
 Printed by: User
 Ident: 1114698
 Analysis from: 7/10/2008 05:41:20
 File: S7100541.CHW

Last save: 7/10/2008 05:53:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38057
 SAMPLE: CS
 Vial number: 43
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.10	0.165	-0.487	Fluoride
2	4.10	0.092	0.247	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	9.38	0.401	-0.135	Sulfate
6	12.00	0.659	0.868	

Handwritten notes: 'OK' next to Chloride peak, and a signature 'CW 7/10/08' over the final row.

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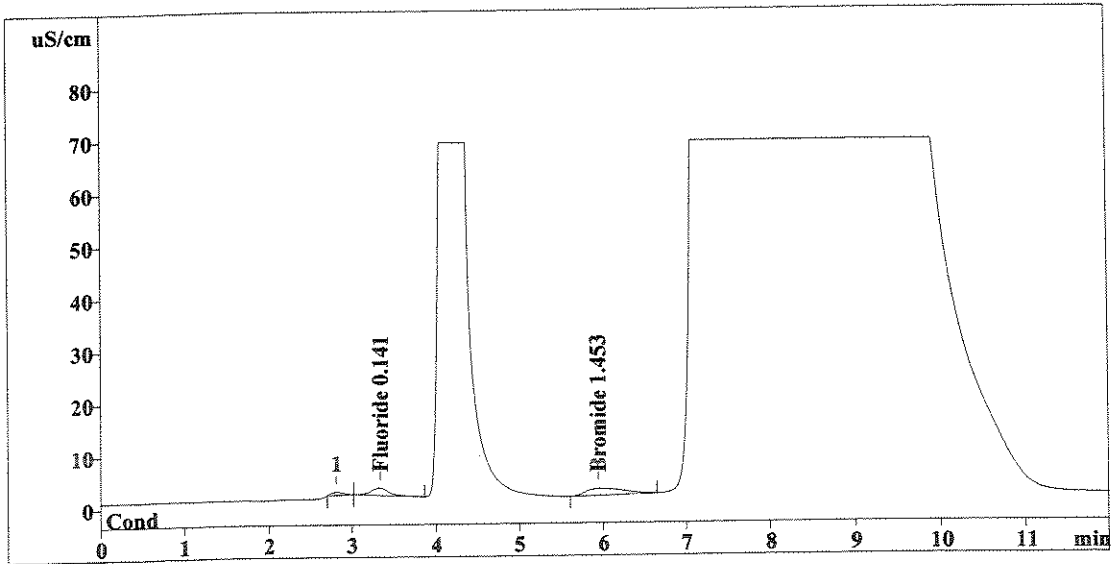
Method 300.0/9056

Report date: 7/10/2008 06:07:24
 Printed by: User
 Ident: 1114380
 Analysis from: 7/10/2008 05:55:26
 File: S7100555.CHW

Last save: 7/10/2008 06:07:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38058
 SAMPLE: NN
 Vial number: 44
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.33	20.844	0.141	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.94	40.387	1.453	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	61.231	1.594	

Handwritten signature and date: 7/10/08

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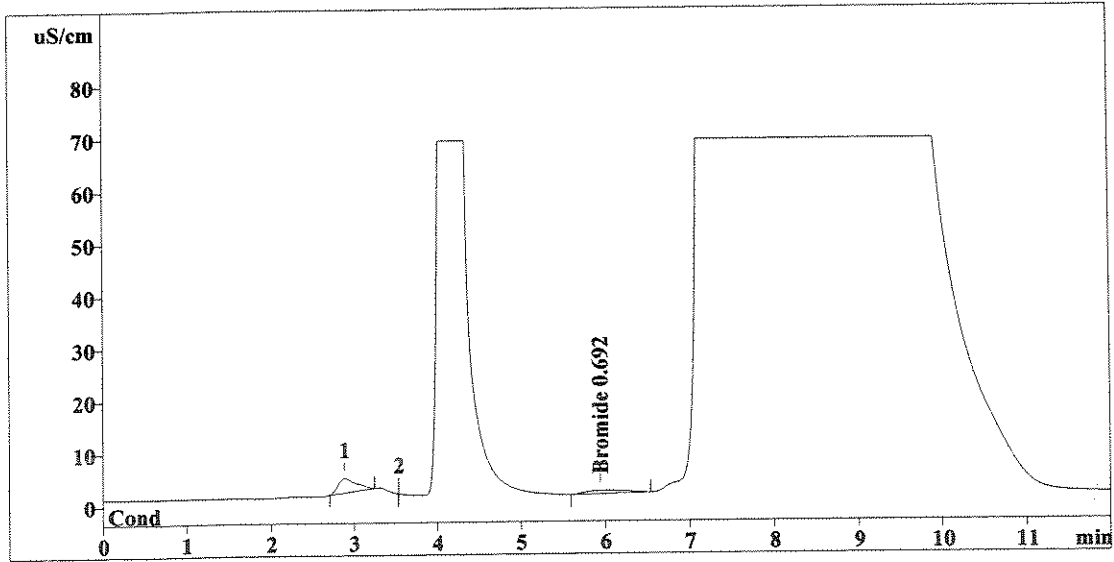
Method 300.0/9056

Report date: 7/10/2008 06:21:30
 Printed by: User
 Ident: 1114380 DUP
 Analysis from: 7/10/2008 06:09:32
 File: S7100609.CHW

Last save: 7/10/2008 06:21:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38059
 SAMPLE: NN
 Vial number: 45
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



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	5.94	18.875	0.692	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	18.875	0.692	

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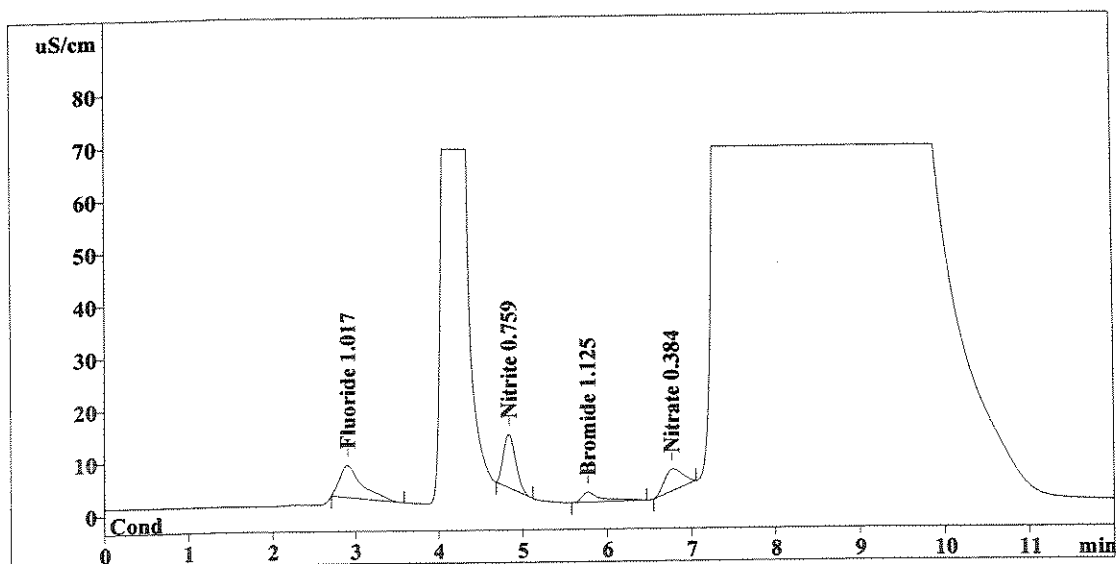
Method 300.0/9056

Report date: 7/10/2008 06:35:36
 Printed by: User
 Ident: 1114380 SPK
 Analysis from: 7/10/2008 06:23:38
 File: S7100623.CHW

Last save: 7/10/2008 06:35:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38060
 SAMPLE: NN
 Vial number: 46
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	116.251	1.017	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.83	103.790	0.759	Nitrite
4	5.77	31.130	1.125	Bromide
5	6.77	61.093	0.384	Nitrate
6	0.00	0.000	0.000	Sulfate
<hr/>				
6	12.00	312.264	3.285	

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 METROHM LTD

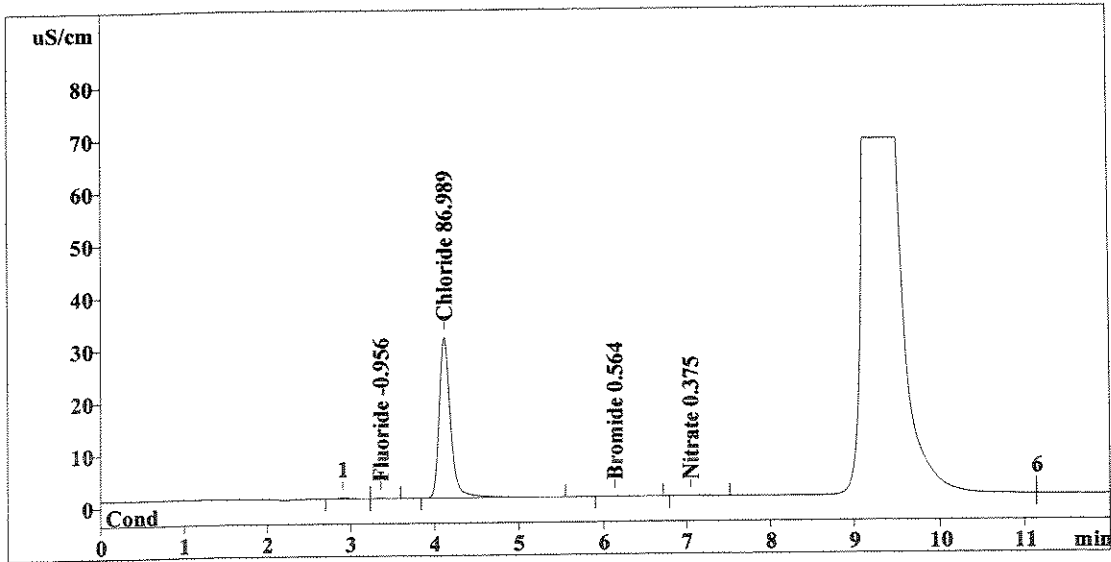
Report date: 7/10/2008 06:49:43
 Printed by: User
 Ident: 1114380
 Analysis from: 7/10/2008 06:37:45
 File: S7100637.CHW

extraction

Last save: 7/10/2008 06:49:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38061
 SAMPLE: C
 Vial number: 47
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.263	-0.956	Fluoride
2	4.11	282.974	86.989	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.13	0.119	0.564	Bromide
5	7.05	0.388	0.375	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	283.744	88.883	

7/10/08

259 → 250 ml

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 Rochester, NY 14609

Method 300.0/9056

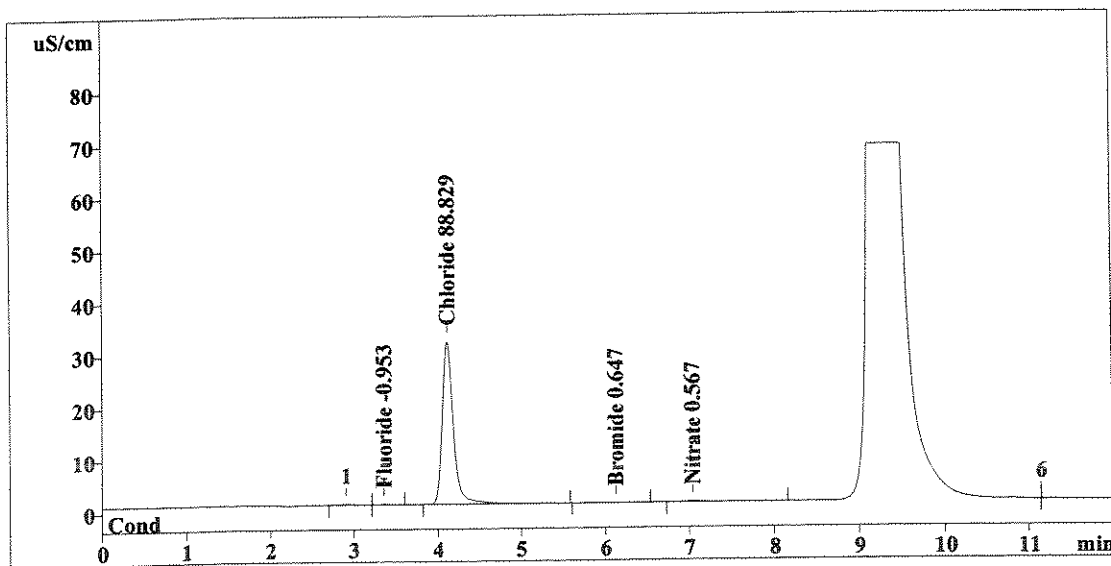
Report date: 7/10/2008 07:03:50
 Printed by: User
 Ident: 1114380 DUP
 Analysis from: 7/10/2008 06:51:51
 File: S7100651.CHW

Last save: 7/10/2008 07:03:45

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38062
 SAMPLE: C
 Vial number: 48
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51

Subtraction



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.275	-0.953	Fluoride
2	4.11	288.993	88.829	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.13	0.237	0.647	Bromide
5	7.04	1.982	0.567	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	291.487	90.997	

CV 7/10/08

259 → 250ml

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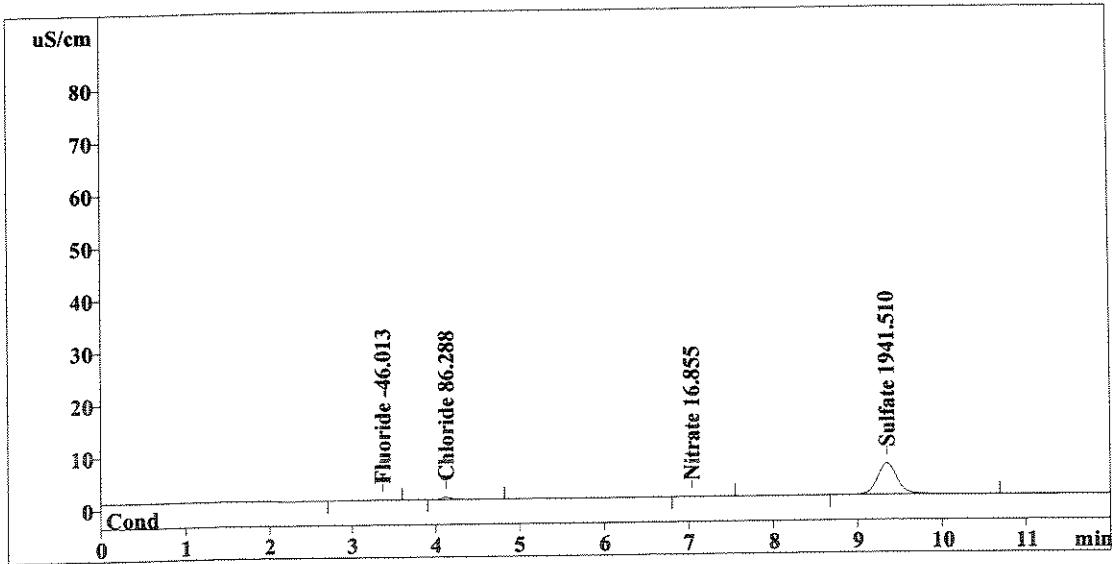
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 07:32:02
 Printed by: User
 Ident: 1114380
 Analysis from: 7/10/2008 07:20:03
 File: S7100720.CHW

Method 300.0/9056

Last save: 7/10/2008 07:31:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38064
 SAMPLE: S
 Vial number: 50
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.456	-46.013	Fluoride
2	4.12	4.123	86.288	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.04	0.074	16.855	Nitrate
6	9.35	97.367	1941.510	Sulfate
<hr/>				
6	12.00	102.020	2090.666	

OK
7/10/08

25g → 250ml
Extraction

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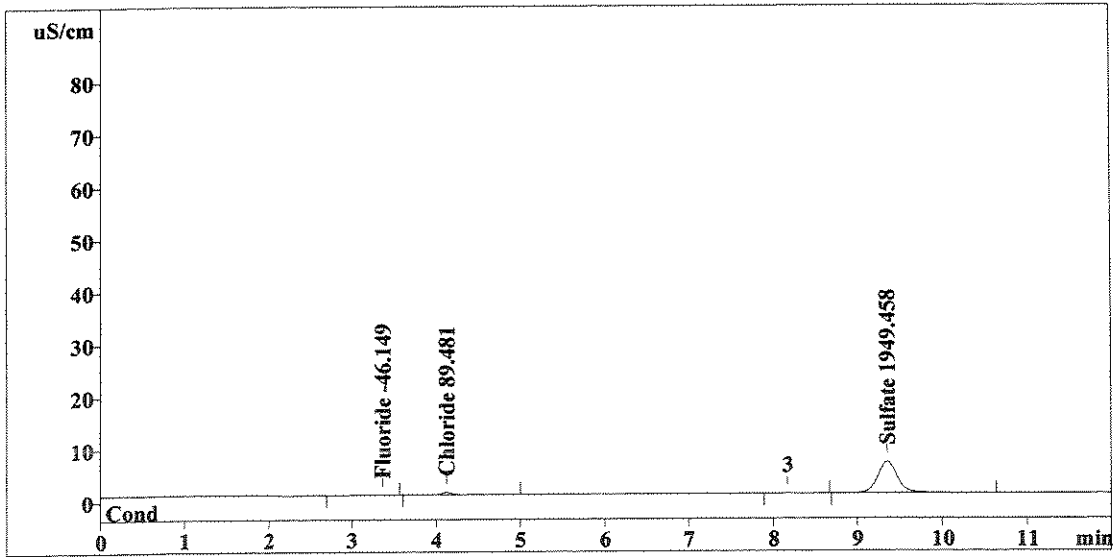
Method 300.0/9056

Report date: 7/10/2008 07:46:08
 Printed by: User
 Ident: 1114380 DUP
 Analysis from: 7/10/2008 07:34:10
 File: S7100734.CHW

Last save: 7/10/2008 07:46:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38065
 SAMPLE: S
 Vial number: 51
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.441	-46.149	Fluoride
2	4.12	4.331	89.481	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	9.36	97.762	1949.458	Sulfate
6	12.00	102.534	2085.088	

OK
 7/10/08

*259 → 250 mL
 Extraction*

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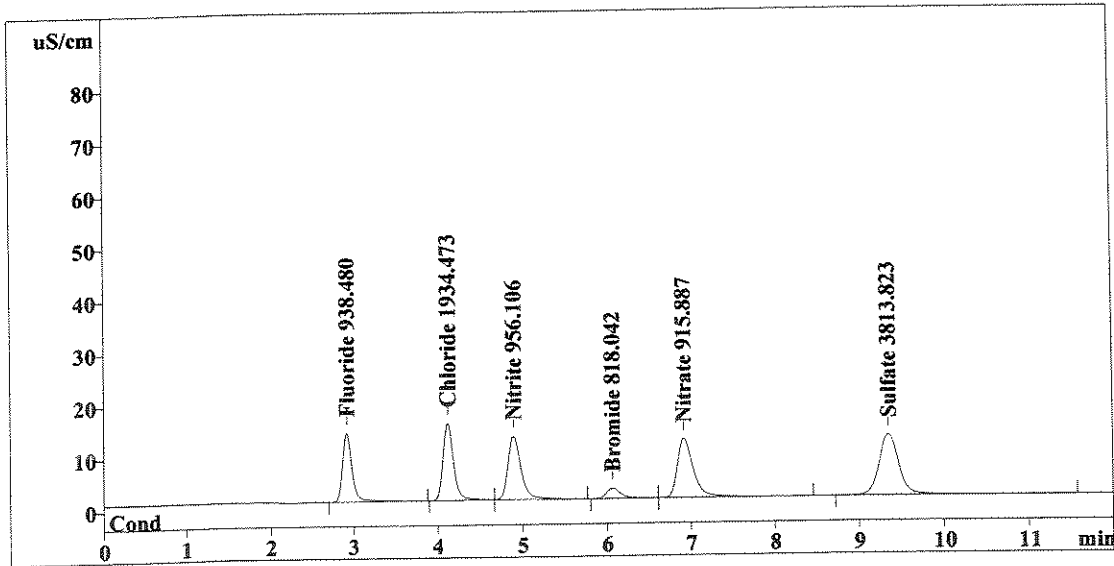
Method 300.0/9056

Report date: 7/10/2008 08:00:14
 Printed by: User
 Ident: 1114380 SPK
 Analysis from: 7/10/2008 07:48:16
 File: S7100748.CHW

Last save: 7/10/2008 08:00:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38066
 SAMPLE: S
 Vial number: 52
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	107.651	938.480	Fluoride
2	4.12	125.012	1934.473	Chloride
3	4.89	130.631	956.106	Nitrite
4	6.07	22.449	818.042	Bromide
5	6.91	149.605	915.887	Nitrate
6	9.35	190.233	3813.823	Sulfate
<hr/>				
6	12.00	725.581	9376.810	

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*259 → 250ml
 in fraction*

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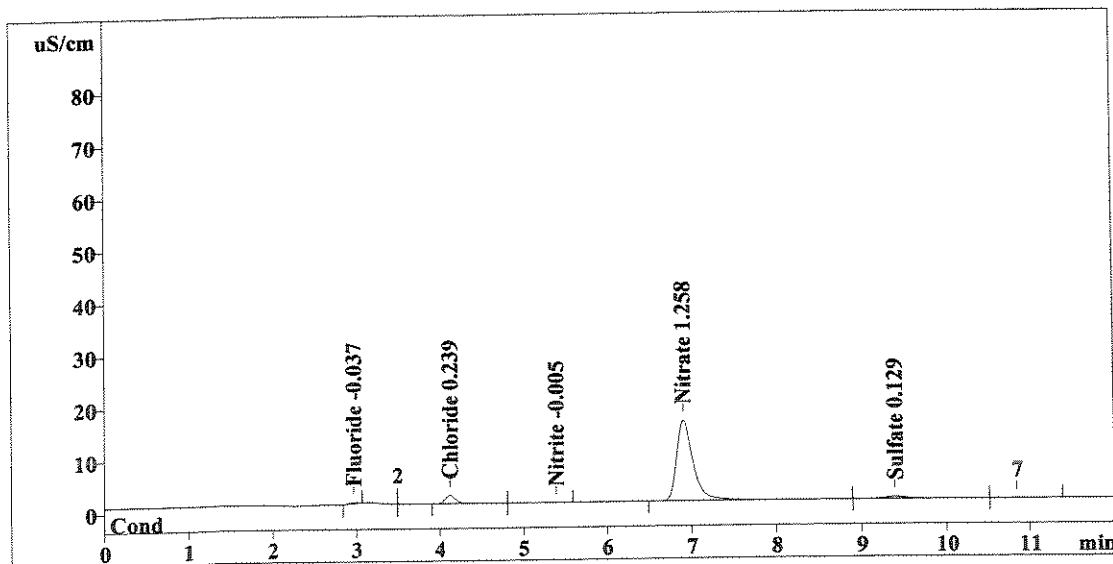
Method 300.0/9056

Report date: 7/10/2008 08:14:20
 Printed by: User
 Ident: SPLP METHOD BLANK
 Analysis from: 7/10/2008 08:02:22
 File: S7100802.CHW

Last save: 7/10/2008 08:14:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38067
 SAMPLE: CS
 Vial number: 53
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	1.444	-0.037	Fluoride
2	4.12	14.143	0.239	Chloride
3	5.40	0.103	-0.005	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.90	206.444	1.258	Nitrate
6	9.40	7.472	0.129	Sulfate
6	12.00	229.605	1.668	

HIGH (handwritten next to Chloride)
OK (handwritten next to Sulfate)
7/10/08 (handwritten signature/initials)

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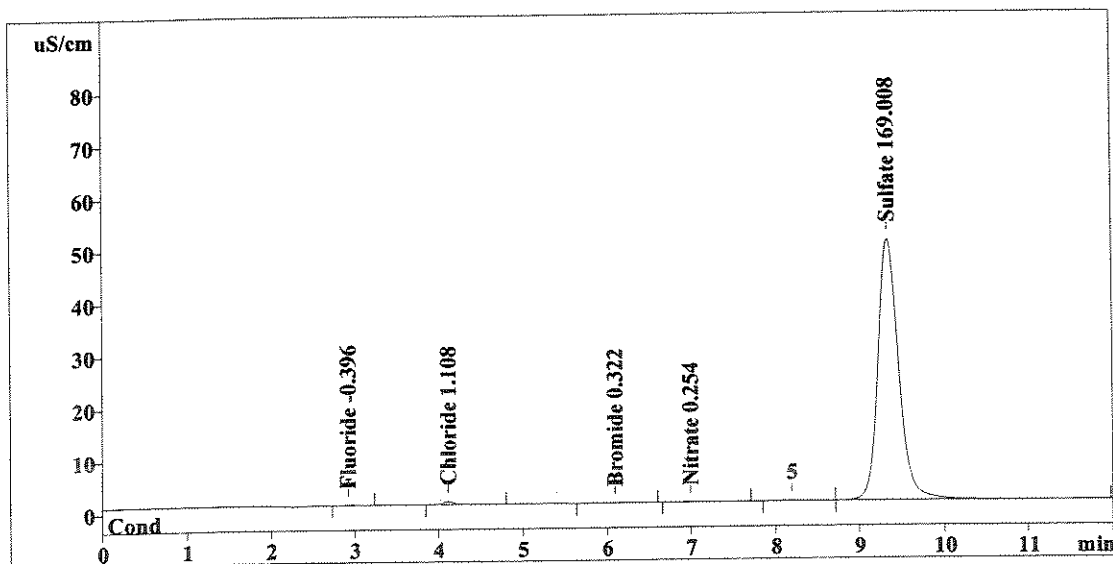
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 08:28:27
 Printed by: User
 Ident: 1110349
 Analysis from: 7/10/2008 08:16:28
 File: S7100816.CHW

Method 300.0/9056

Last save: 7/10/2008 08:28:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38068
 SAMPLE: C
 Vial number: 54
 Volume: 1.0 µL
 Dilution: 10.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	1.159	-0.396	Fluoride
2	4.11	5.723	1.108	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.09	0.231	0.322	Bromide
5	7.00	1.492	0.254	Nitrate
6	9.34	839.336	169.008	Sulfate
6	12.00	847.941	171.086	

Handwritten notes: "npts to" next to the first four rows, and a signature "G/M" with date "7/10/08" next to the last two rows.

This report has been created by IC Net
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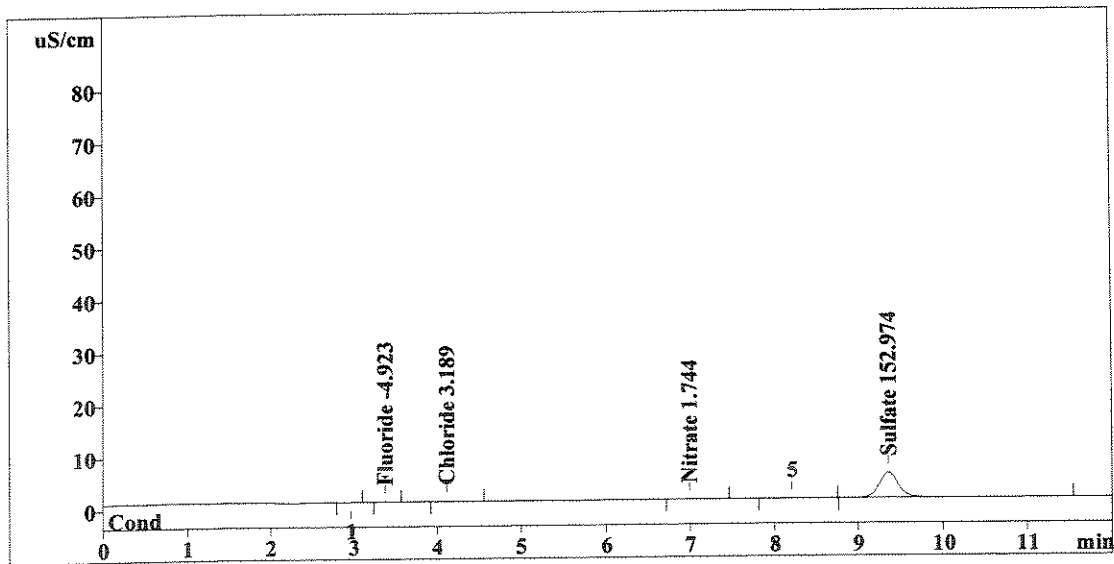
Method 300.0/9056

Report date: 7/10/2008 08:42:32
 Printed by: User
 Ident: 1110349
 Analysis from: 7/10/2008 08:30:34
 File: S7100830.CHW

Last save: 7/10/2008 08:42:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38069
 SAMPLE: S
 Vial number: 55
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.106	-4.923	Fluoride
2	4.11	0.564	3.189	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.99	0.172	1.744	Nitrate
6	9.36	76.944	152.974	Sulfate
6	12.00	77.786	162.830	

OK
7/10/08

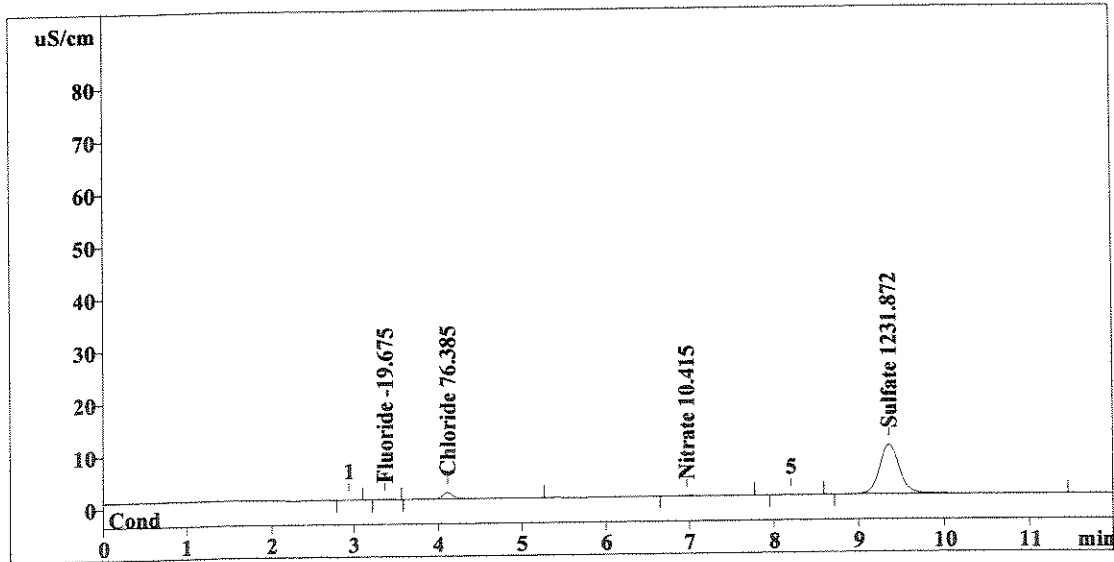
This report has been created by IC Net
 METROHM LTD

Report date: 7/10/2008 08:56:39
 Printed by: User
 Ident: 1105436
 Analysis from: 7/10/2008 08:44:40
 File: S7100844.CHW

Last save: 7/10/2008 08:56:33

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38070
 SAMPLE: S
 Vial number: 56
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.110	-19.675	Fluoride
2	4.11	10.969	76.385	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.97	1.602	10.415	Nitrate
6	9.36	153.820	1231.872	Sulfate
<hr/>				
6	12.00	166.500	1338.347	

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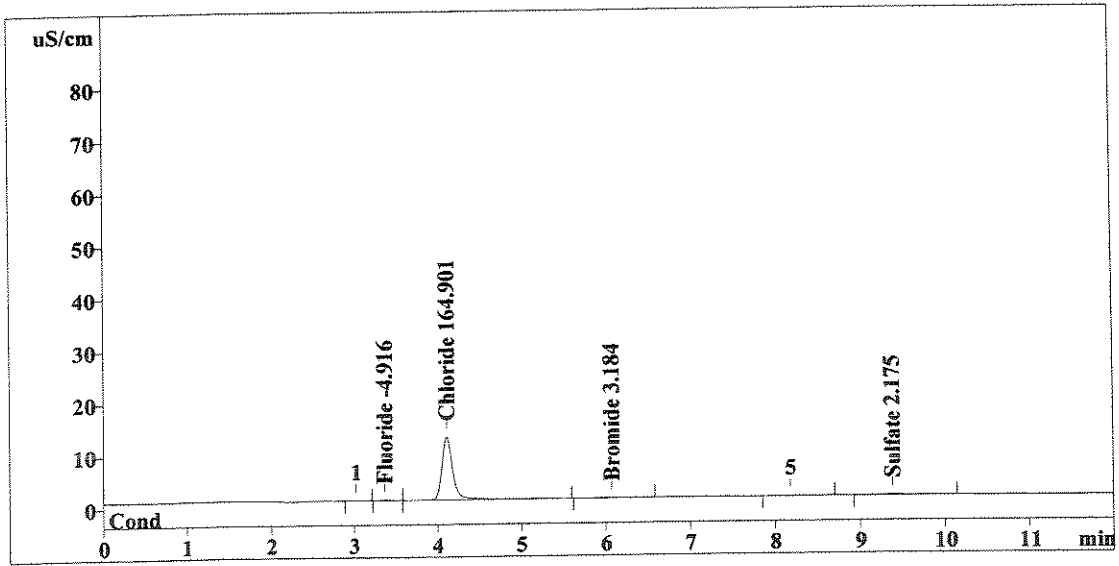
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 09:10:45
 Printed by: User
 Ident: 1114080
 Analysis from: 7/10/2008 08:58:47
 File: S7100858.CHW

Method 300.0/9056

Last save: 7/10/2008 09:10:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38071
 SAMPLE: C
 Vial number: 57
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.113	-4.916	Fluoride
2	4.11	106.339	164.901	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.07	0.222	3.184	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.38	2.149	2.175	Sulfate
6	12.00	108.823	175.176	

This report has been created by IC Net
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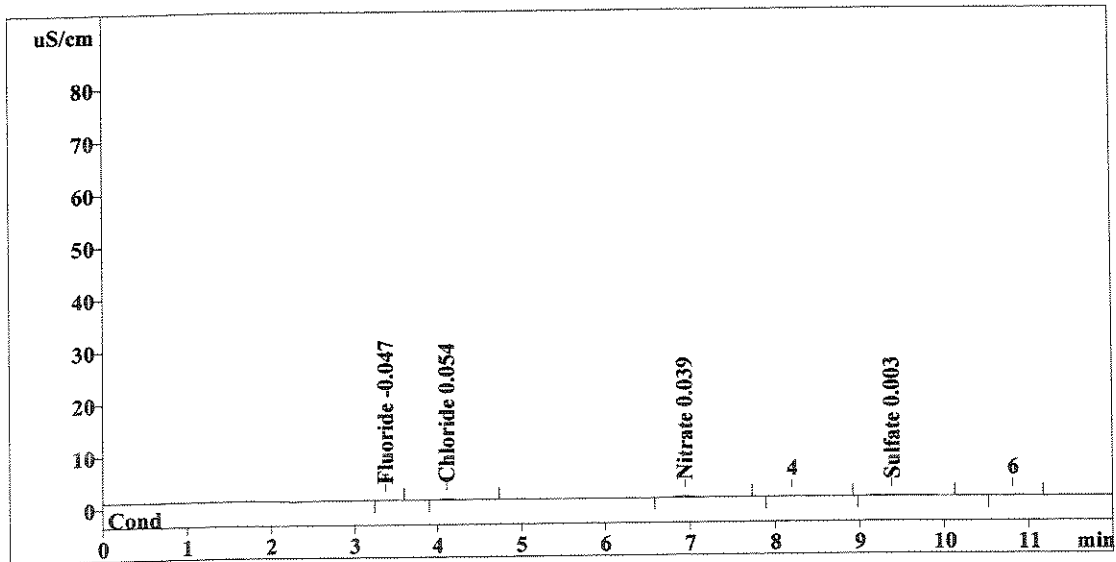
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 09:24:51
 Printed by: User
 Ident: METHOD BLANK 7/2
 Analysis from: 7/10/2008 09:12:53
 File: S7100912.CHW

Method 300.0/9056

Last save: 7/10/2008 09:24:45

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38072
 SAMPLE: CNNS
 Vial number: 58
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.387	-0.047	Fluoride
2	4.11	1.998	0.054	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.94	3.679	0.039	Nitrate
6	9.39	1.214	0.003	Sulfate
<hr/>				
6	12.00	7.278	0.142	

OK
7/10/08
25g → 250mLs
Extraction

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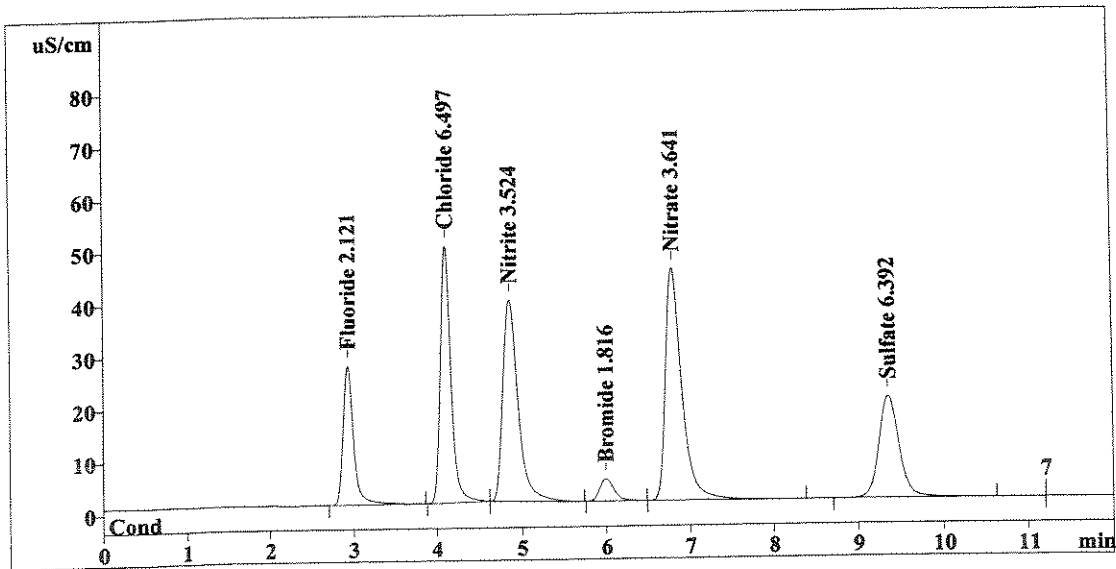
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 09:38:57
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 09:26:59
 File: S7100926.CHW

Method 300.0/9056

Last save: 7/10/2008 09:38:51

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38073
 SAMPLE:
 Vial number: 59
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	236.374	2.121	Fluoride
2	4.10	423.450	6.497	Chloride
3	4.85	479.597	3.524	Nitrite
4	6.00	50.669	1.816	Bromide
5	6.79	602.783	3.641	Nitrate
6	9.36	318.111	6.392	Sulfate
<hr/>				
6	12.00	2110.985	23.991	

OK
 ↓
 WJ
 7/10/08

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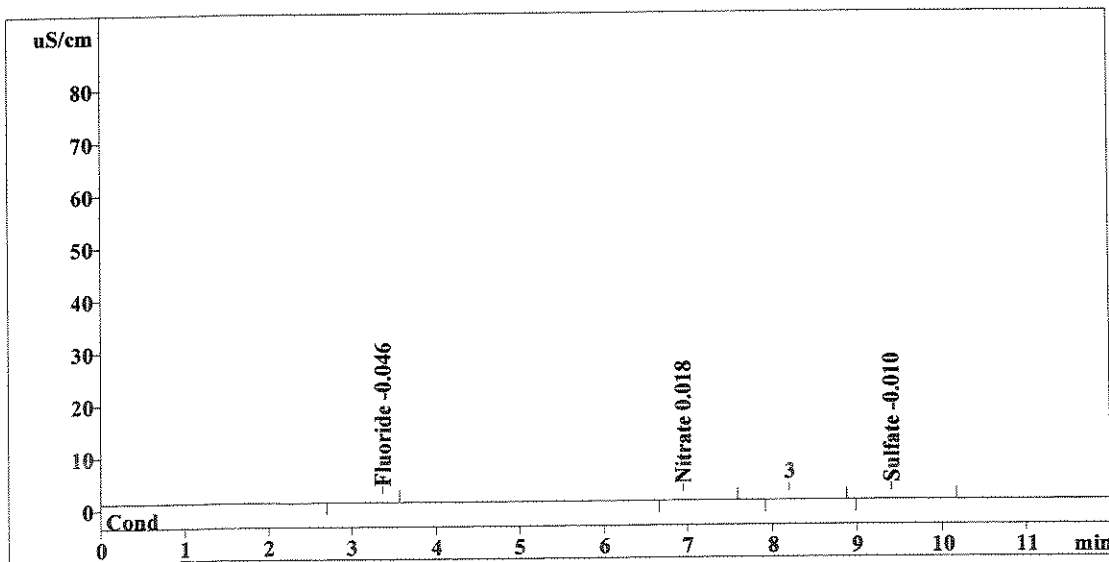
Method 300.0/9056

Report date: 7/10/2008 09:53:03
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 09:41:05
 File: S7100941.CHW

Last save: 7/10/2008 09:52:57

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38074
 SAMPLE:
 Vial number: 60
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.416	-0.046	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	6.95	0.195	0.018	Nitrate
6	9.41	0.570	-0.010	Sulfate
6	12.00	1.180	0.074	

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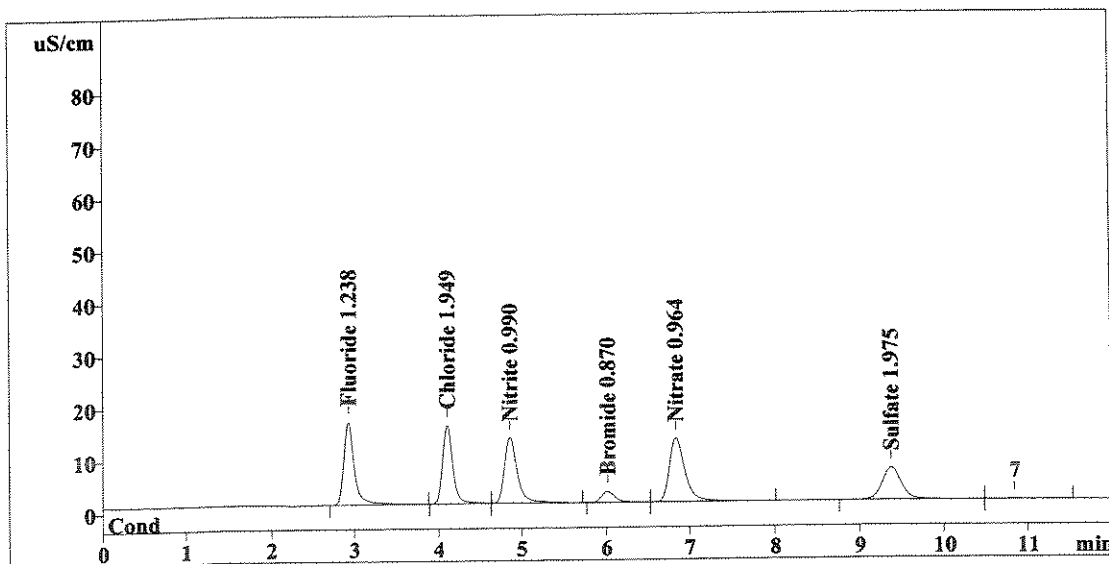
Method 300.0/9056

Report date: 7/10/2008 10:07:09
 Printed by: User
 Ident: LCS
 Analysis from: 7/10/2008 09:55:11
 File: S7100955.CHW

Last save: 7/10/2008 10:07:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38075
 SAMPLE:
 Vial number: 61
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	140.259	1.238	Fluoride
2	4.10	125.944	1.949	Chloride
3	4.86	135.280	0.990	Nitrite
4	6.02	23.929	0.870	Bromide
5	6.83	157.605	0.964	Nitrate
6	9.38	99.016	1.975	Sulfate
6	12.00	682.032	7.986	

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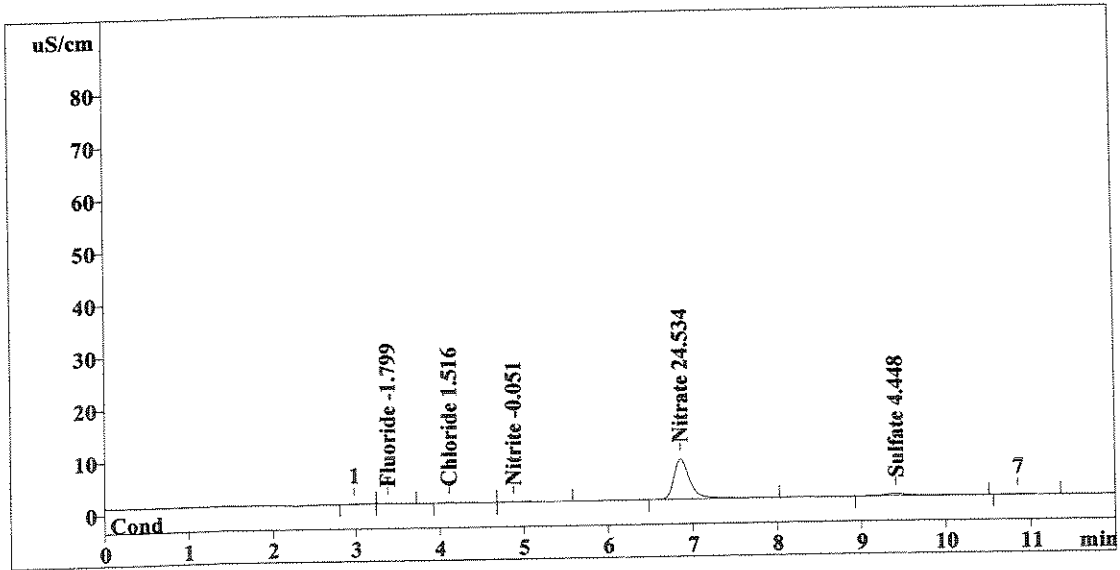
Method 300.0/9056

Report date: 7/10/2008 10:21:15
 Printed by: User
 Ident: LNAQ0701
 Analysis from: 7/10/2008 10:09:17
 File: S7101009.CHW

Last save: 7/10/2008 10:21:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38076
 SAMPLE: BTU
 Vial number: 113
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.38	0.570	-1.799	Fluoride
2	4.11	0.957	1.516	Chloride
3	4.87	0.551	-0.051	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.85	99.287	24.534	Nitrate
6	9.42	6.585	4.448	Sulfate
<hr/>				
6	12.00	107.950	32.348	

OK
7/10/08

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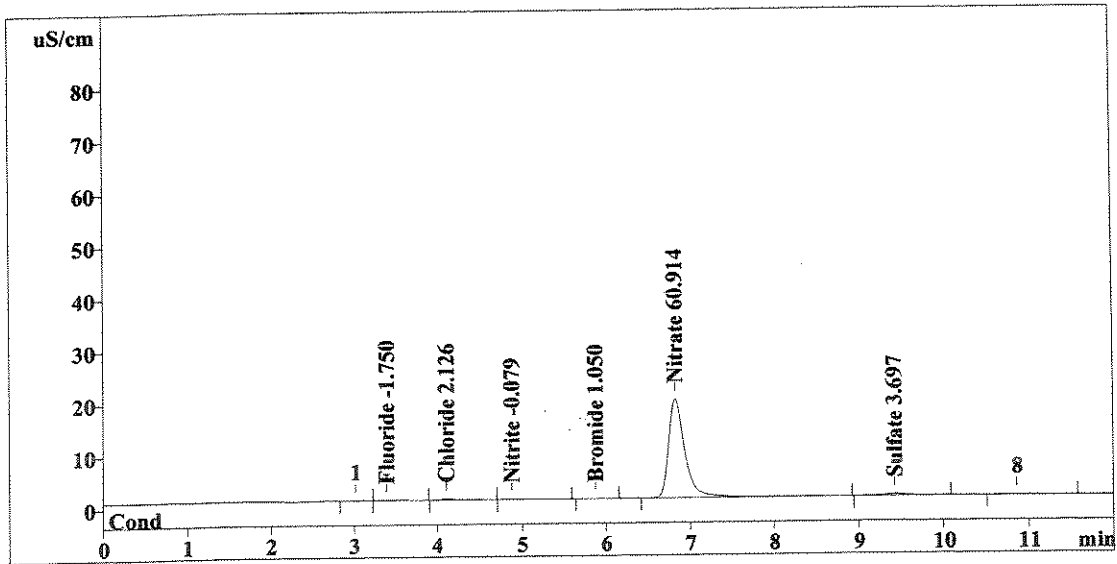
Method 300.0/9056

Report date: 7/10/2008 10:35:21
 Printed by: User
 Ident: 1111733A
 Analysis from: 7/10/2008 10:23:23
 File: S7101023.CHW

Last save: 7/10/2008 10:35:14

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38077
 SAMPLE: BTU
 Vial number: 114
 Volume: 1.0 µL
 Dilution: 40.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	0.702	-1.750	Fluoride
2	4.11	1.956	2.126	Chloride
3	4.87	0.458	-0.079	Nitrite
4	5.88	0.064	1.050	Bromide
5	6.82	250.558	60.914	Nitrate
6	9.42	5.654	3.697	Sulfate
6	12.00	259.391	69.616	

Handwritten signature and date: 7/10/08

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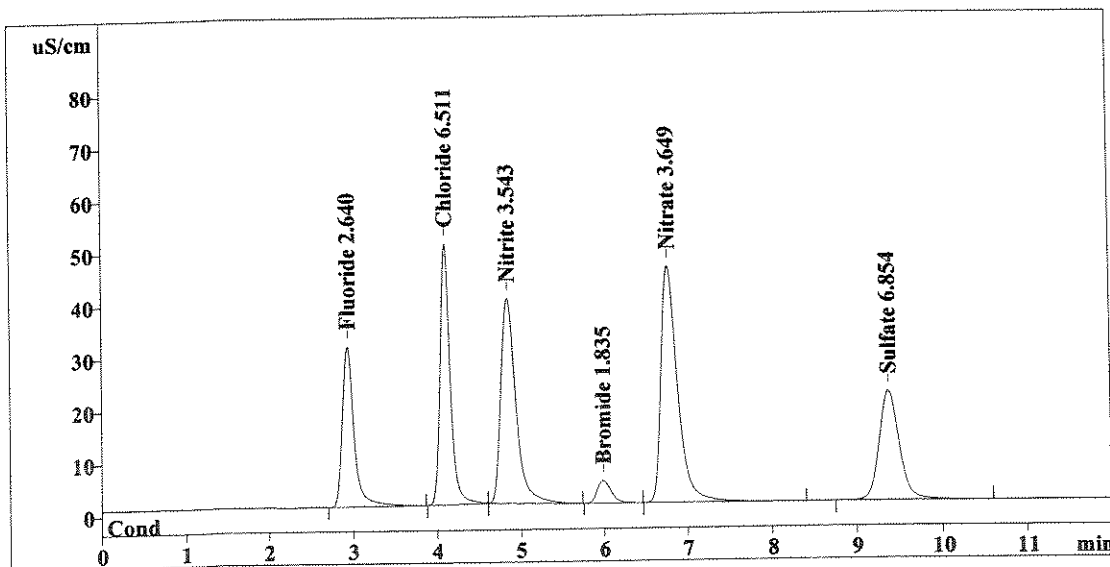
Method 300.0/9056

Report date: 7/10/2008 10:49:27
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 10:37:29
 File: S7101037.CHW

Last save: 7/10/2008 10:49:20

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38078
 SAMPLE:
 Vial number: 115
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	292.974	2.640	Fluoride
2	4.10	424.340	6.511	Chloride
3	4.84	482.092	3.543	Nitrite
4	5.99	51.214	1.835	Bromide
5	6.78	604.246	3.649	Nitrate
6	9.38	341.038	6.854	Sulfate
<hr/>				
6	12.00	2195.904	25.033	

Handwritten notes: "OVT HIGH" and "OK" are written next to the area values for peaks 1 and 2. A downward arrow points from the "OK" note to the area value for peak 6. A signature and date "7/10/08" are written below the table.

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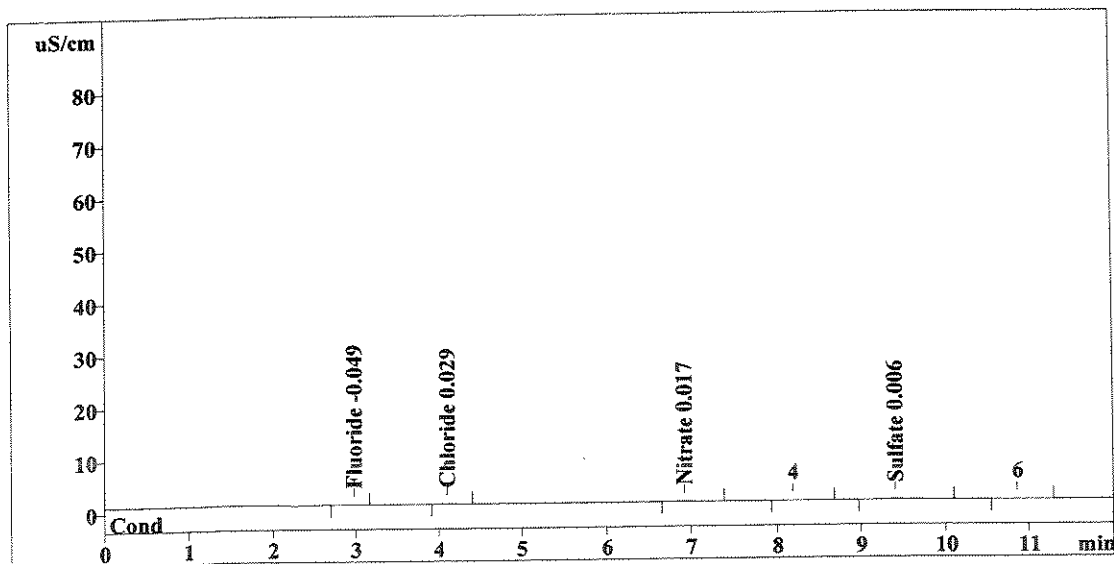
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 11:03:33
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 10:51:35
 File: S7101051.CHW

Method 300.0/9056

Last save: 7/10/2008 11:03:26

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38079
 SAMPLE:
 Vial number: 116
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.98	0.174	-0.049	Fluoride
2	4.10	0.403	0.029	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.93	0.170	0.017	Nitrate
6	9.41	1.365	0.006	Sulfate
6	12.00	2.113	0.101	

Handwritten notes: 'OK' with a checkmark, a downward arrow, and a signature 'CJ' dated '7/10/08' are present next to the table.

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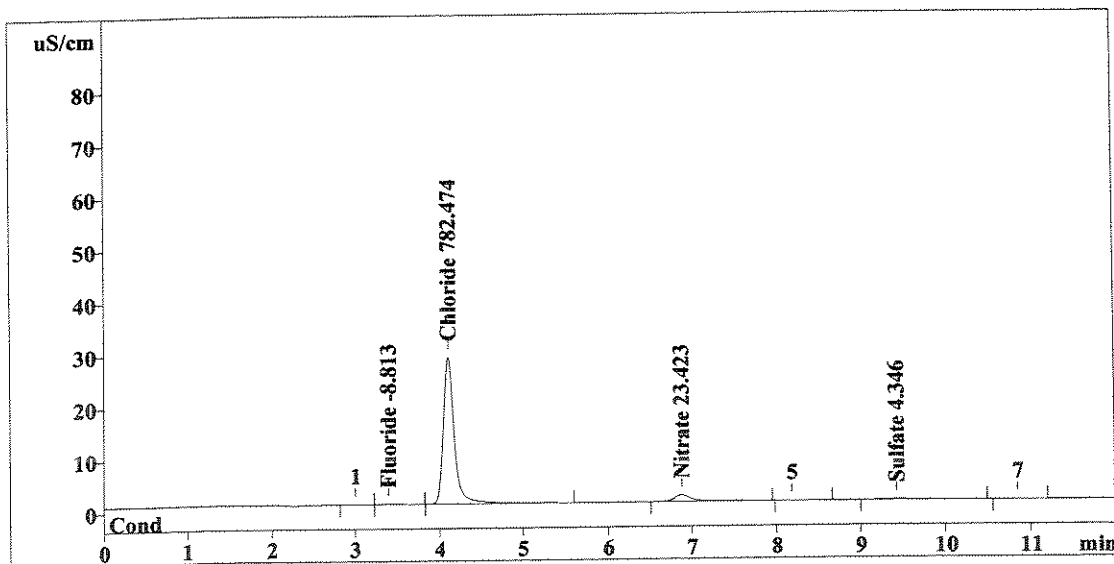
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 11:17:40
 Printed by: User
 Ident: 1110602A
 Analysis from: 7/10/2008 11:05:41
 File: S7101105.CHW

Method 300.0/9056

Last save: 7/10/2008 11:17:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38080
 SAMPLE: %CL
 Vial number: 69
 Volume: 1.0 µL
 Dilution: 200.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	0.667	-8.813	Fluoride
2	4.10	254.385	782.474	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.88	16.750	23.423	Nitrate
6	9.43	2.147	4.346	Sulfate
6	12.00	273.950	819.057	

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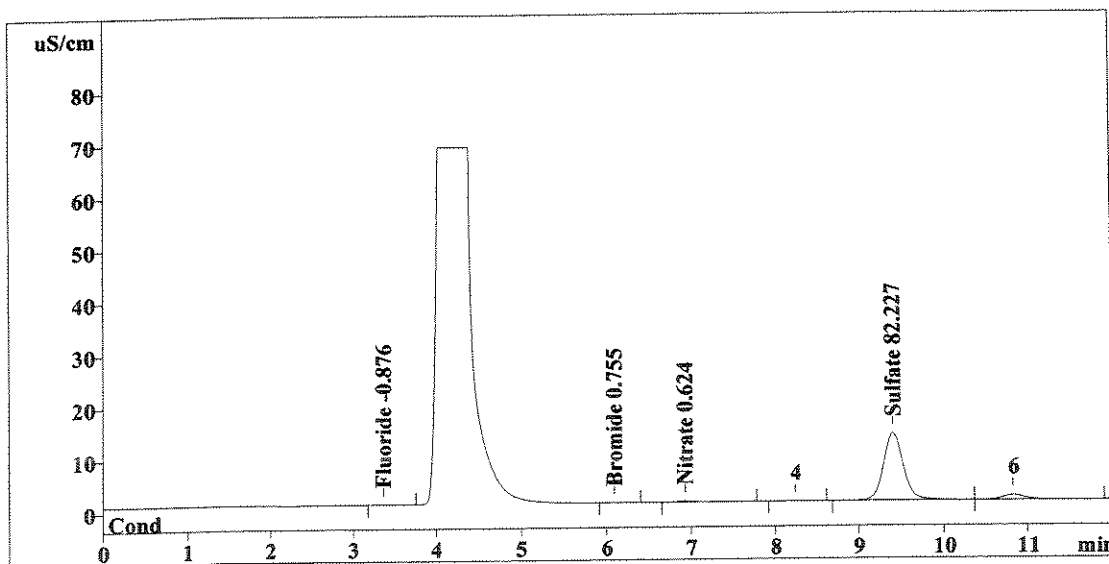
Method 300.0/9056

Report date: 7/10/2008 11:31:45
 Printed by: User
 Ident: 1114366
 Analysis from: 7/10/2008 11:19:47
 File: S7101119.CHW

Last save: 7/10/2008 11:31:38

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38081
 SAMPLE: EXTRACTION - S
 Vial number: 70
 Volume: 1.0 µL
 Dilution: 20.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.695	-0.876	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.10	0.389	0.755	Bromide
5	6.93	2.464	0.624	Nitrate
6	9.40	204.991	82.227	Sulfate
6	12.00	208.538	84.483	

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Handwritten notes:
 OK
 C/M
 7/10/08
 254 → 250 mL

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 Rochester, NY 14609

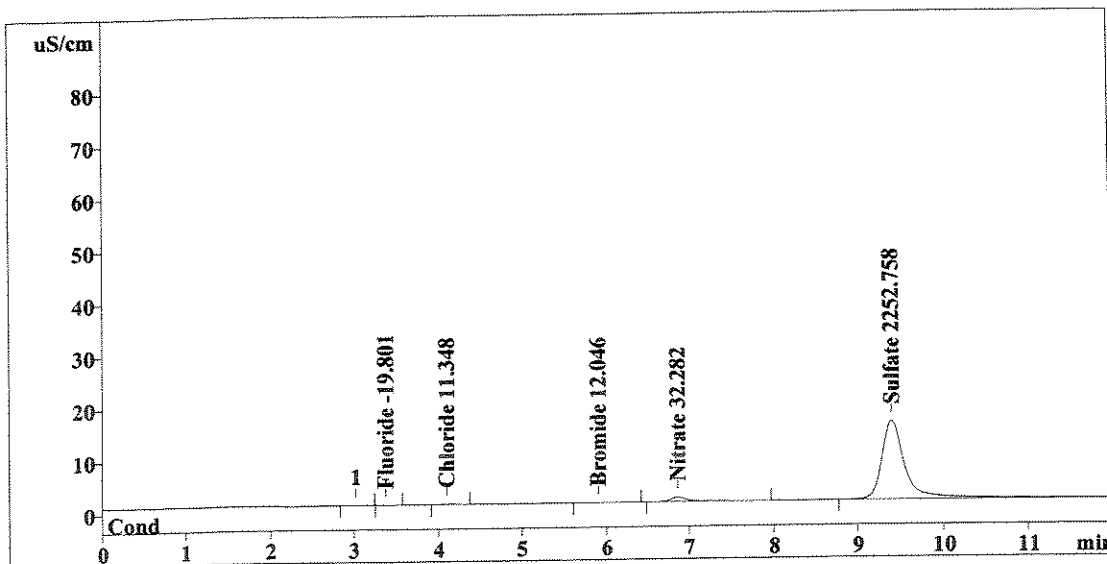
Method 300.0/9056

Report date: 7/10/2008 11:47:18
 Printed by: User
 Ident: 1113050A
 Analysis from: 7/10/2008 11:35:20
 File: S7101135.CHW

Last save: 7/10/2008 11:47:10

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38082
 SAMPLE: BTU
 Vial number: 137
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.076	-19.801	Fluoride
2	4.10	0.334	11.348	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.173	12.046	Bromide
5	6.87	10.694	32.282	Nitrate
6	9.41	280.408	2252.758	Sulfate
<hr/>				
6	12.00	291.685	2328.234	

OK
CM
7/10/08

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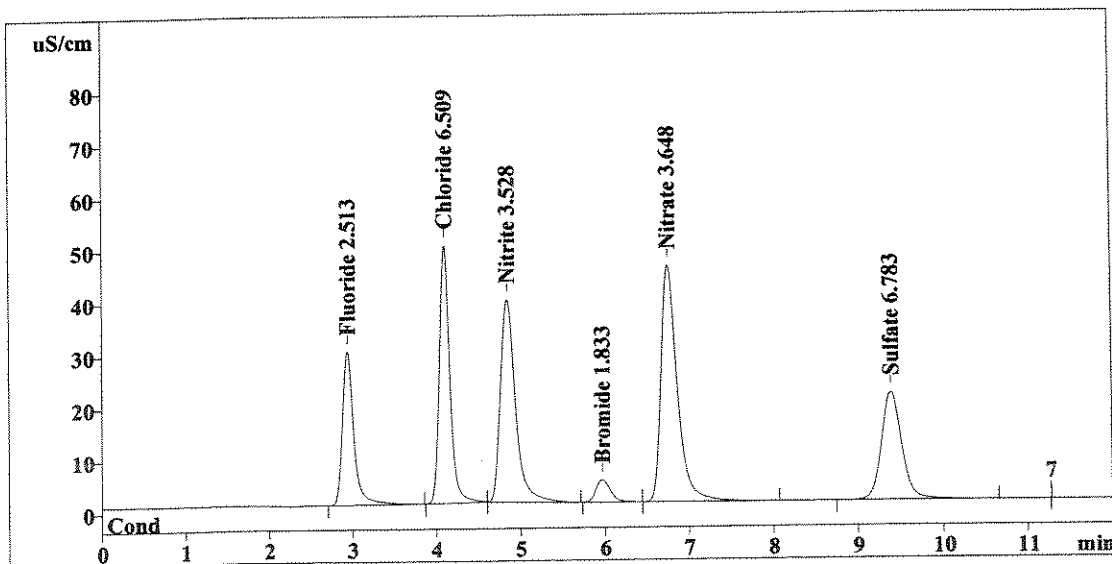
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 12:01:24
 Printed by: User
 IDent: CCV
 Analysis from: 7/10/2008 11:49:26
 File: S7101149.CHW

Method 300.0/9056

Last save: 7/10/2008 12:01:16

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38083
 SAMPLE:
 Vial number: 138
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	279.088	2.513	Fluoride
2	4.09	424.242	6.509	Chloride
3	4.83	480.077	3.528	Nitrite
4	5.97	51.149	1.833	Bromide
5	6.75	604.067	3.648	Nitrate
6	9.39	337.510	6.783	Sulfate
<hr/>				
6	12.00	2176.132	24.815	

Handwritten notes: "out H1671" and "OK" are written next to the first three rows. A handwritten signature and date "7/10/08" are written below the last row.

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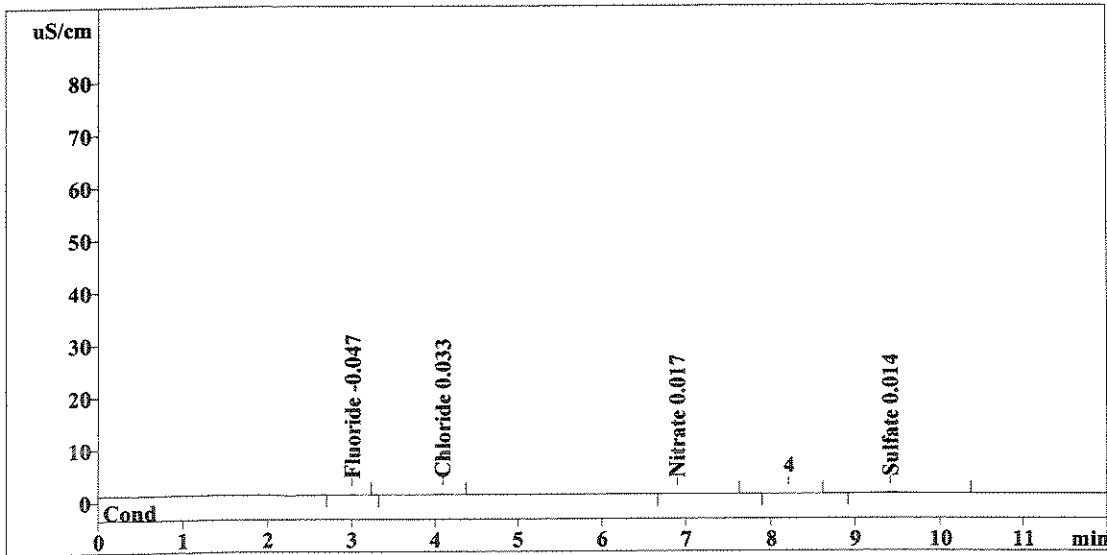
Method 300.0/9056

Report date: 7/10/2008 12:15:30
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 12:03:32
 File: S7101203.CHW

Last save: 7/10/2008 12:15:22

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38084
 SAMPLE:
 Vial number: 139
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.00	0.380	-0.047	Fluoride
2	4.09	0.658	0.033	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.90	0.107	0.017	Nitrate
6	9.42	1.779	0.014	Sulfate
6	12.00	2.924	0.111	

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OK
7/10/08

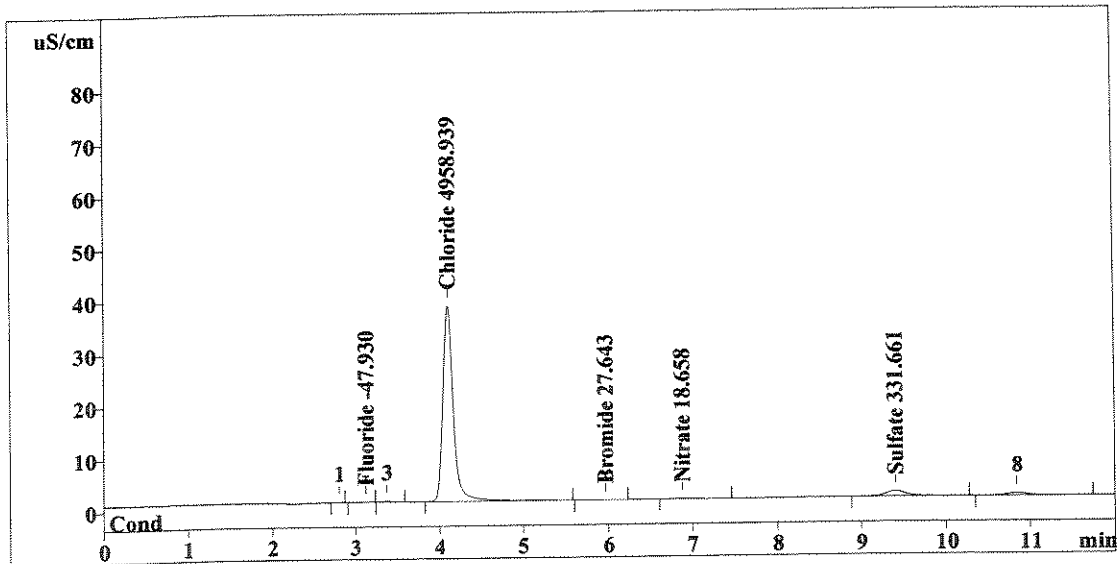
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 12:29:36
 Printed by: User
 Ident: 1114376
 Analysis from: 7/10/2008 12:17:38
 File: S7101217.CHW

Method 300.0/9056

Last save: 7/10/2008 12:29:28

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38085
 SAMPLE: C
 Vial number: 71
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.12	0.247	-47.930	Fluoride
2	4.09	322.841	4958.939	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.103	27.643	Bromide
5	6.88	0.374	18.658	Nitrate
6	9.41	17.520	331.661	Sulfate
6	12.00	341.084	5384.830	

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Handwritten: 25g → 250ml

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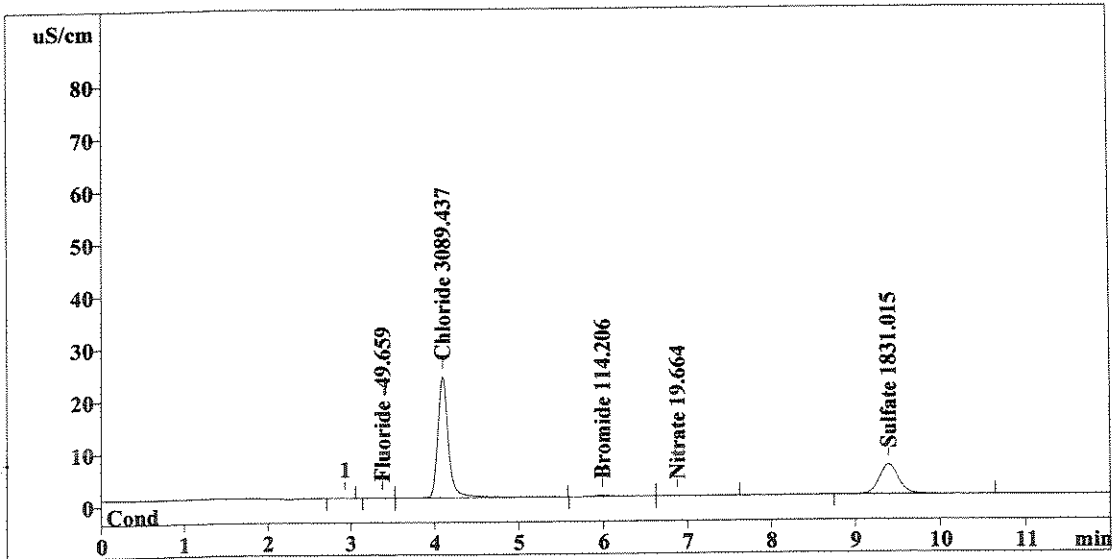
Method 300.0/9056

Report date: 7/10/2008 12:43:42
 Printed by: User
 Ident: 1111265
 Analysis from: 7/10/2008 12:31:44
 File: S7101231.CHW

Last save: 7/10/2008 12:43:34

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38086
 SAMPLE: C
 Vial number: 72
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.059	-49.659	Fluoride
2	4.09	200.557	3089.437	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	2.551	114.206	Bromide
5	6.87	0.541	19.664	Nitrate
6	9.40	91.887	1831.015	Sulfate
6	12.00	295.594	5103.980	

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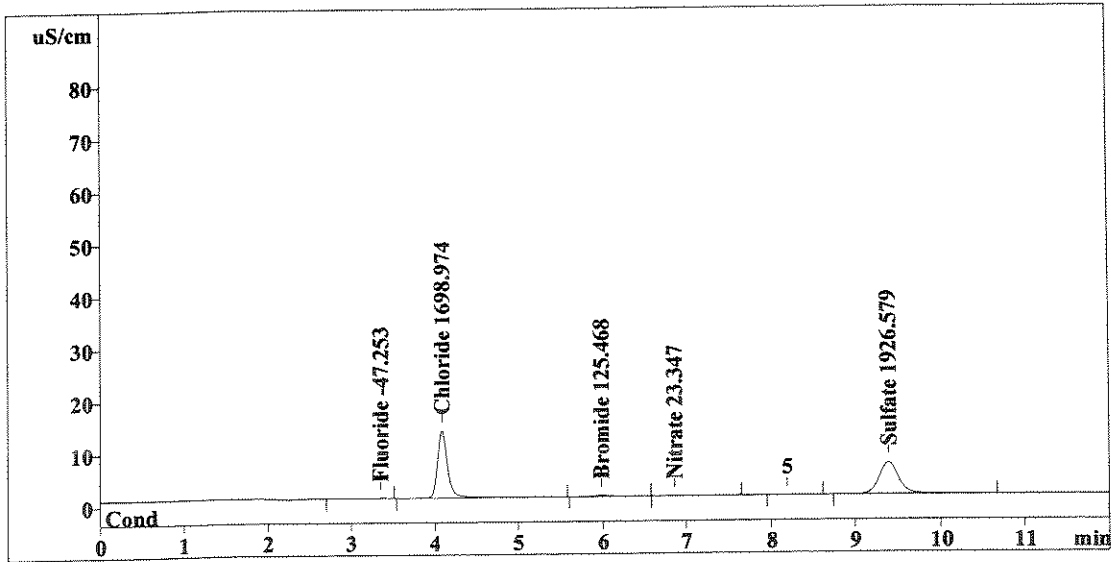
Method 300.0/9056

Report date: 7/10/2008 12:57:49
 Printed by: User
 Ident: 1111267
 Analysis from: 7/10/2008 12:45:50
 File: S7101245.CHW

Last save: 7/10/2008 12:57:40

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38087
 SAMPLE: C
 Vial number: 73
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.320	-47.253	Fluoride
2	4.09	109.608	1698.974	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	2.869	125.468	Bromide
5	6.86	1.154	23.347	Nitrate
6	9.40	96.627	1926.579	Sulfate
6	12.00	210.578	3821.621	

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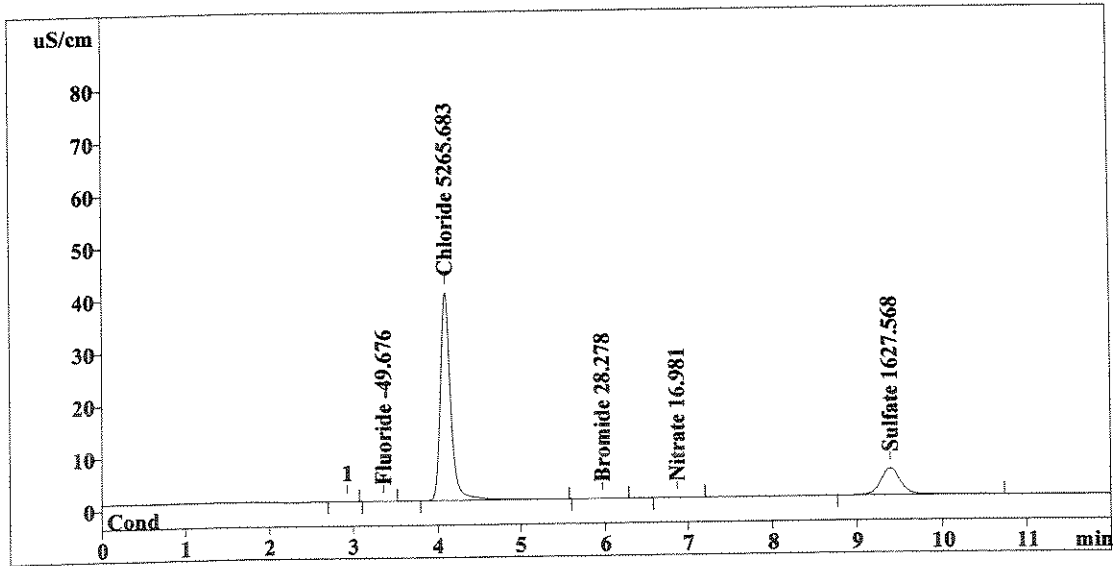
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 13:11:55
 Printed by: User
 Ident: 1111765
 Analysis from: 7/10/2008 12:59:56
 File: S7101259.CHW

Method 300.0/9056

Last save: 7/10/2008 13:11:46

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38088
 SAMPLE: C
 Vial number: 74
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.057	-49.676	Fluoride
2	4.09	342.905	5265.683	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.96	0.121	28.278	Bromide
5	6.87	0.095	16.981	Nitrate
6	9.40	81.796	1627.568	Sulfate
6	12.00	424.974	6988.186	

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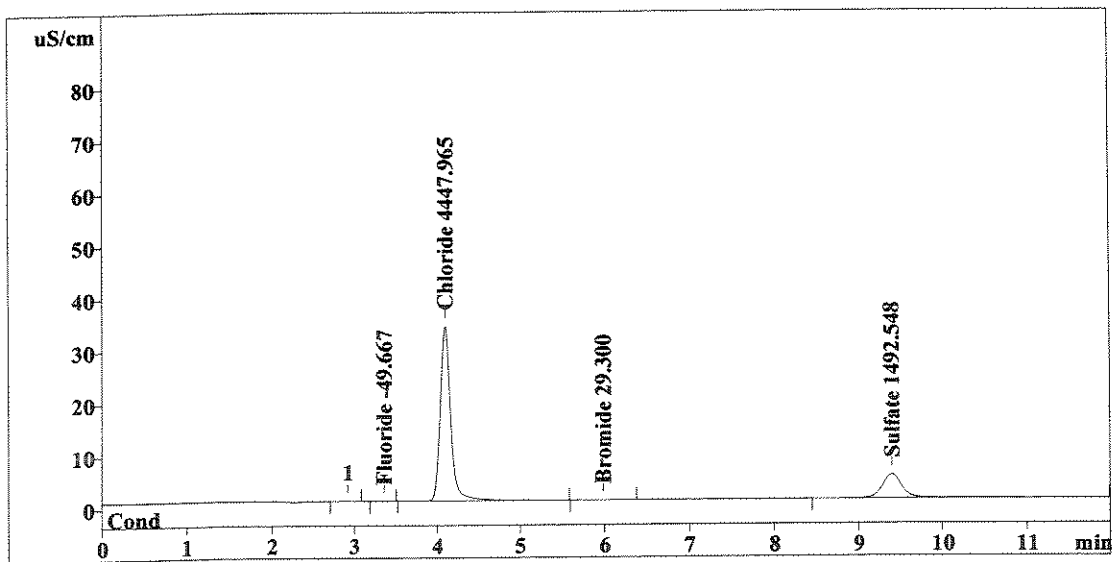
Method 300.0/9056

Report date: 7/10/2008 13:26:01
 Printed by: User
 Ident: 1112486
 Analysis from: 7/10/2008 13:14:02
 File: S7101314.CHW

Last save: 7/10/2008 13:25:52

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38089
 SAMPLE: C
 Vial number: 75
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.058	-49.667	Fluoride
2	4.09	289.418	4447.965	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.150	29.300	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.40	75.099	1492.548	Sulfate
6	12.00	364.725	6019.480	

OK
7/10/08

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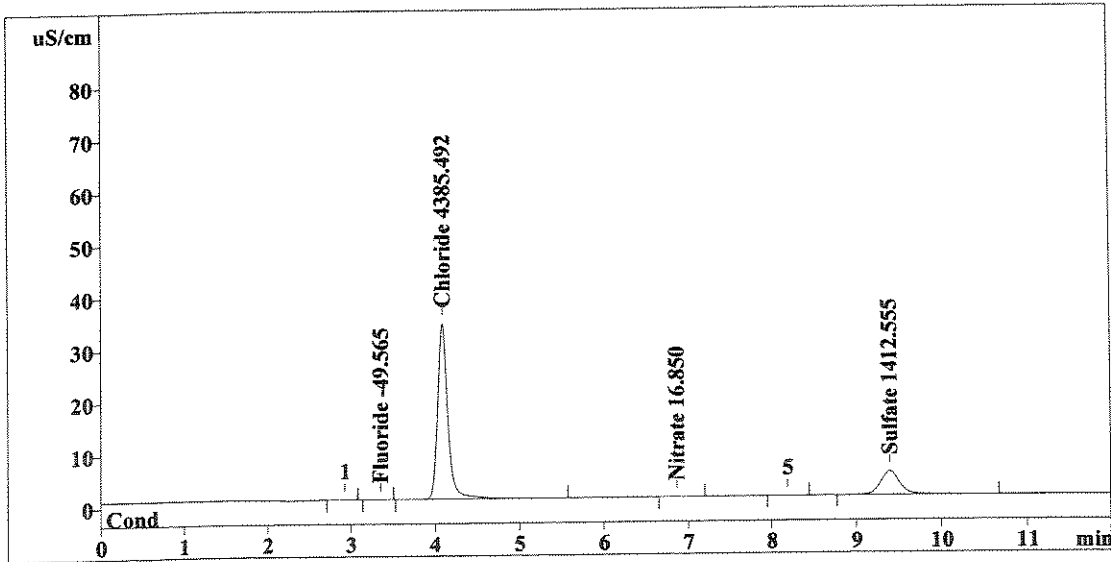
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 13:40:07
 Printed by: User
 Ident: 1112486 DUP
 Analysis from: 7/10/2008 13:28:08
 File: S7101328.CHW

Method 300.0/9056

Last save: 7/10/2008 13:39:58

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38090
 SAMPLE: C
 Vial number: 76
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.069	-49.565	Fluoride
2	4.09	285.332	4385.492	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.86	0.073	16.850	Nitrate
6	9.40	71.131	1412.555	Sulfate
6	12.00	356.605	5864.462	

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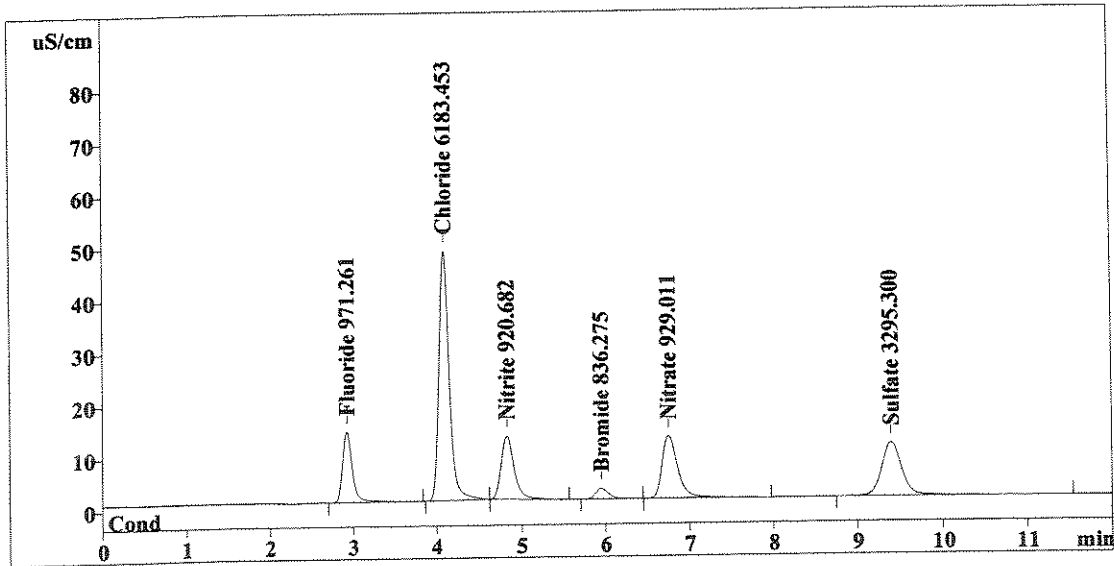
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 13:54:13
 Printed by: User
 Ident: 1112486 SPK
 Analysis from: 7/10/2008 13:42:14
 File: S7101342.CHW

Method 300.0/9056

Last save: 7/10/2008 13:54:03

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38091
 SAMPLE: C
 Vial number: 77
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	111.221	971.261	Fluoride
2	4.09	402.935	6183.453	Chloride
3	4.83	125.818	920.682	Nitrite
4	5.95	22.965	836.275	Bromide
5	6.75	151.788	929.011	Nitrate
6	9.40	164.514	3295.300	Sulfate
6		12.00	979.242	13135.983

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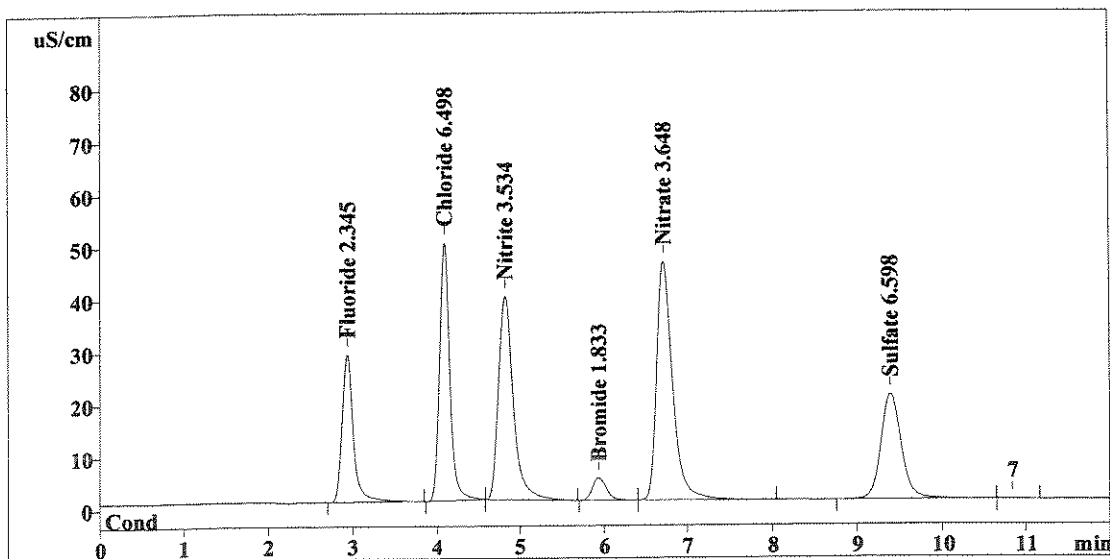
Method 300.0/9056

Report date: 7/10/2008 14:08:19
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 13:56:21
 File: S7101356.CHW

Last save: 7/10/2008 14:08:09

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38092
 SAMPLE:
 Vial number: 78
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	260.791	2.345	Fluoride
2	4.08	423.536	6.498	Chloride
3	4.82	480.956	3.534	Nitrite
4	5.93	51.140	1.833	Bromide
5	6.71	603.993	3.648	Nitrate
6	9.40	328.344	6.598	Sulfate
<hr/>				
6	12.00	2148.760	24.457	

OUT HIGH
 OK
 ↓

CVT
 7/10/08

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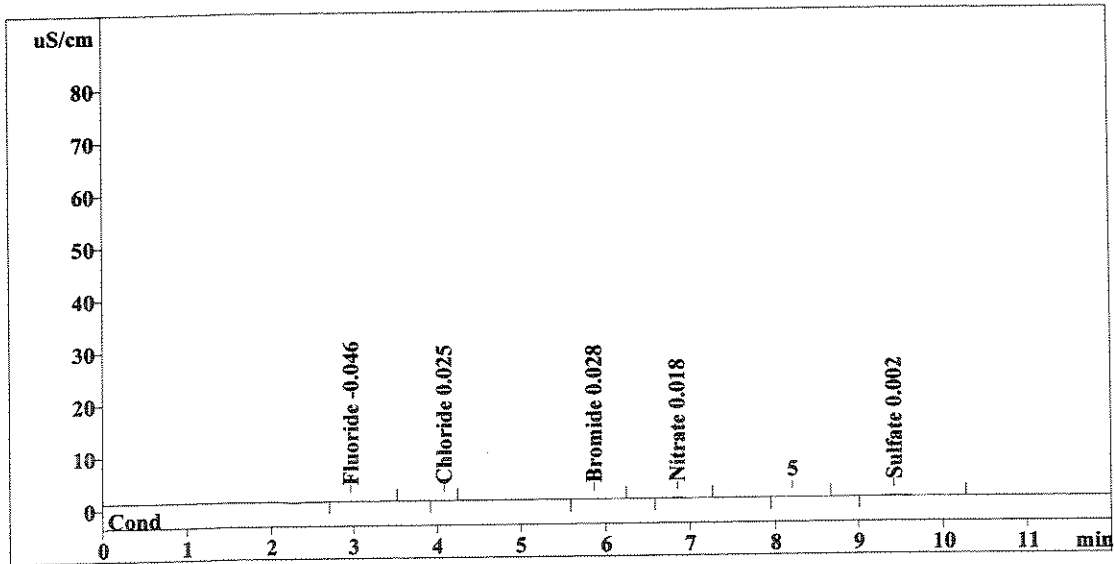
Method 300.0/9056

Report date: 7/10/2008 14:22:25
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 14:10:27
 File: S7101410.CHW

Last save: 7/10/2008 14:22:15

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38093
 SAMPLE:
 Vial number: 79
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.97	0.422	-0.046	Fluoride
2	4.08	0.111	0.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.86	0.115	0.028	Bromide
5	6.85	0.275	0.018	Nitrate
6	9.43	1.152	0.002	Sulfate
6	12.00	2.076	0.119	

Handwritten notes: 'OK' next to row 1, a downward arrow pointing to row 6, and a signature 'CCT/10/08' next to row 6.

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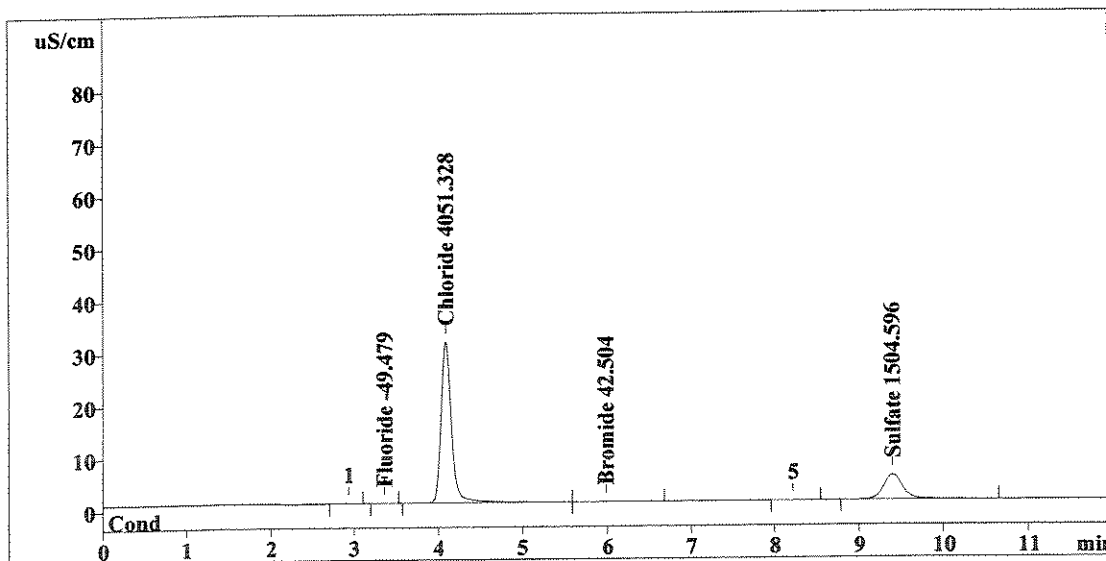
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609
 Report date: 7/10/2008 14:36:31
 Printed by: User
 Ident: 1112487
 Analysis from: 7/10/2008 14:24:33
 File: S7101424.CHW

Method 300.0/9056

Last save: 7/10/2008 14:36:21

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38094
 SAMPLE: C
 Vial number: 80
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.078	-49.479	Fluoride
2	4.09	263.474	4051.328	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.523	42.504	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.41	75.697	1504.596	Sulfate
6	12.00	339.772	5647.906	

OK
7/10/08

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 Columbia Analytical Services
 Rochester, NY 14609

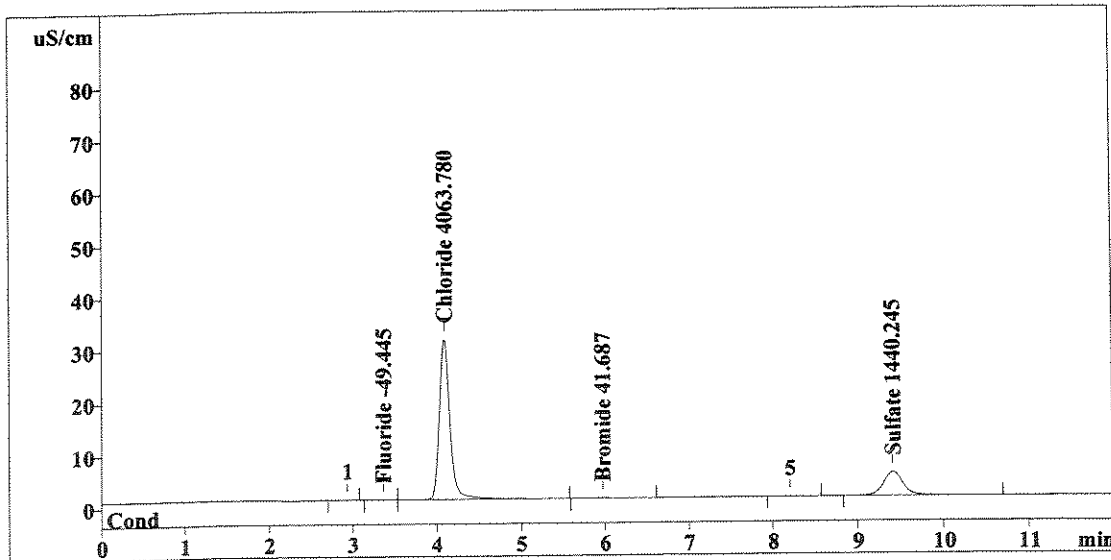
Method 300.0/9056

Report date: 7/10/2008 14:50:37
 Printed by: User
 Ident: 1112487 DUP
 Analysis from: 7/10/2008 14:38:38
 File: S7101438.CHW

Last save: 7/10/2008 14:50:27

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38095
 SAMPLE: C
 Vial number: 81
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.082	-49.445	Fluoride
2	4.08	264.289	4063.780	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.98	0.500	41.687	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.41	72.505	1440.245	Sulfate
6	12.00	337.376	5595.156	

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 Columbia Analytical Services
 Rochester, NY 14609

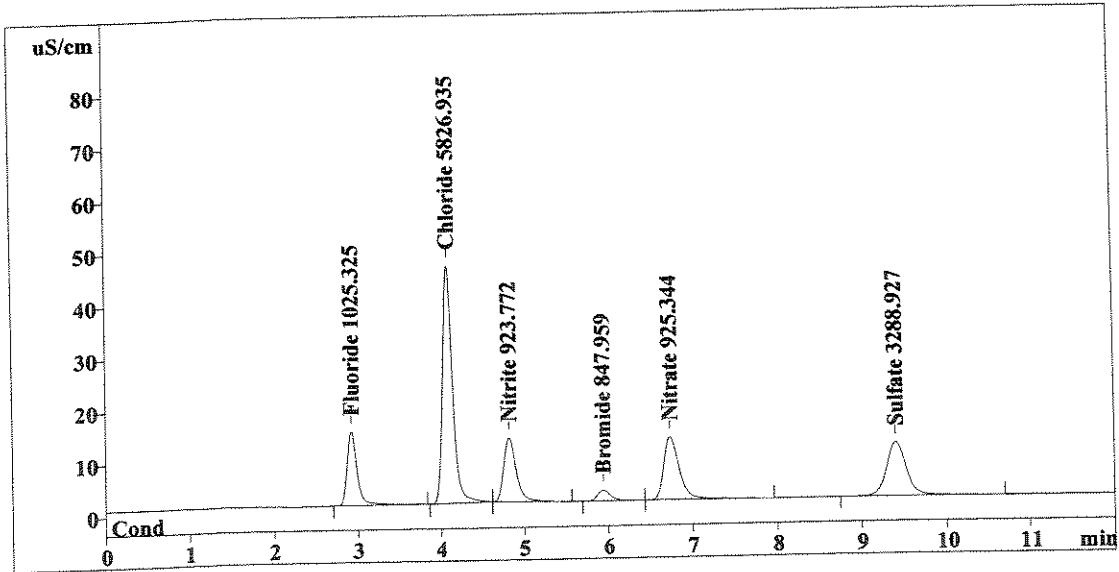
Method 300.0/9056

Report date: 7/10/2008 15:04:43
 Printed by: User
 Ident: 1112487 SPK
 Analysis from: 7/10/2008 14:52:44
 File: S7101452.CHW

Last save: 7/10/2008 15:04:32

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38096
 SAMPLE: C
 Vial number: 82
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	117.108	1025.325	Fluoride
2	4.08	379.616	5826.935	Chloride
3	4.82	126.238	923.772	Nitrite
4	5.94	23.295	847.959	Bromide
5	6.74	151.178	925.344	Nitrate
6	9.40	164.198	3288.927	Sulfate
6		12.00	961.633	12838.262

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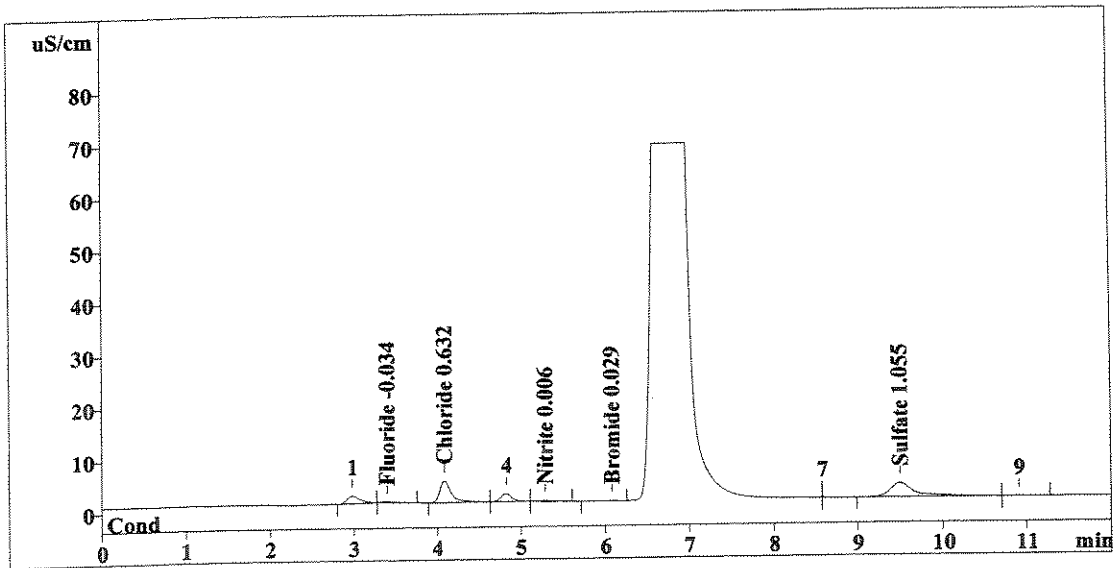
Method 300.0/9056

Report date: 7/10/2008 15:18:49
 Printed by: User
 Ident: BLK0710
 Analysis from: 7/10/2008 15:06:51
 File: S7101506.CHW

Last save: 7/10/2008 15:18:39

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38097
 SAMPLE:
 Vial number: 119
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.40	1.733	-0.034	Fluoride
2	4.09	39.794	0.632	Chloride
3	5.29	1.577	0.006	Nitrite
4	6.08	0.142	0.029	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.50	53.396	1.055	Sulfate
<hr/>				
6	12.00	96.642	1.756	

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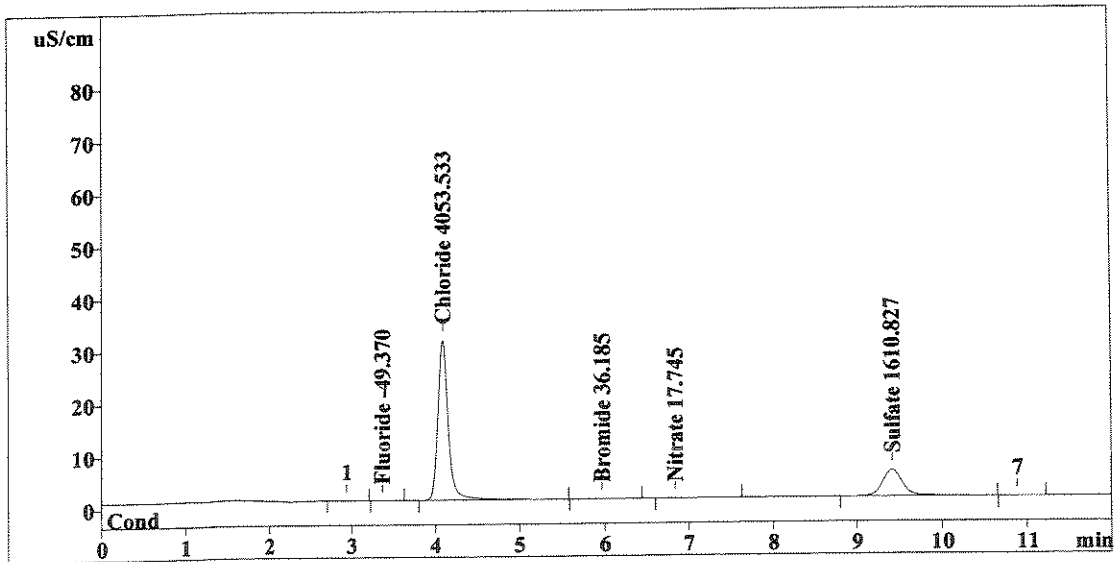
Method 300.0/9056

Report date: 7/10/2008 15:32:54
 Printed by: User
 Ident: 1112489
 Analysis from: 7/10/2008 15:20:56
 File: S7101520.CHW

Last save: 7/10/2008 15:32:44

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38098
 SAMPLE: C
 Vial number: 83
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.090	-49.370	Fluoride
2	4.08	263.618	4053.533	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.97	0.345	36.185	Bromide
5	6.83	0.222	17.745	Nitrate
6	9.42	80.966	1610.827	Sulfate
6	12.00	345.241	5767.661	

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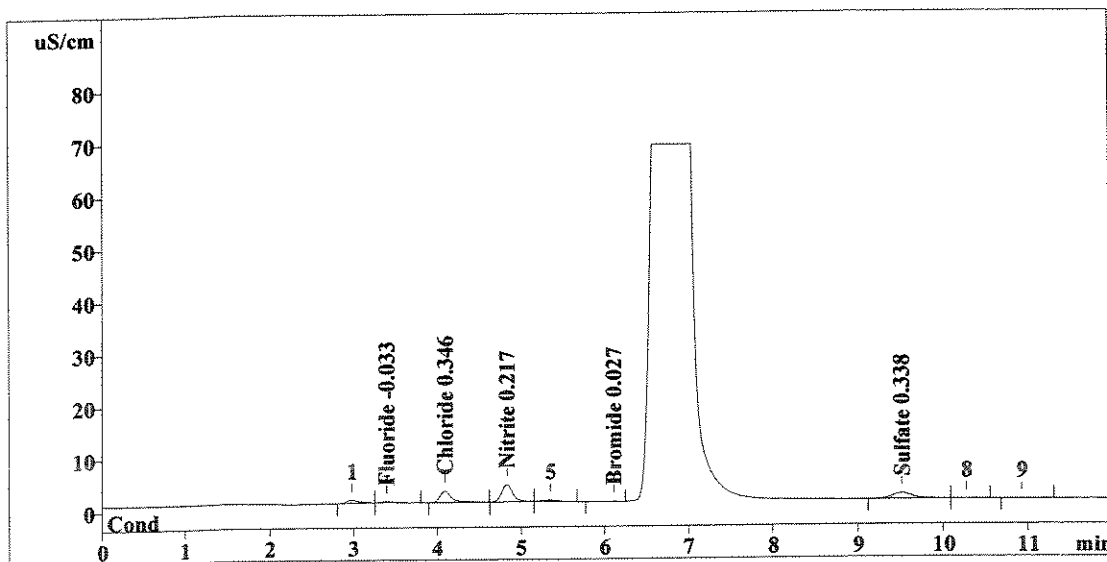
Method 300.0/9056

Report date: 7/10/2008 15:47:00
 Printed by: User
 Ident: BLK0710
 Analysis from: 7/10/2008 15:35:02
 File: S7101535.CHW

Last save: 7/10/2008 15:46:50

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38099
 SAMPLE:
 Vial number: 121
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.39	1.849	-0.033	Fluoride
2	4.09	21.093	0.346	Chloride
3	4.82	30.198	0.217	Nitrite
4	6.11	0.083	0.027	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.52	17.830	0.338	Sulfate
6	12.00	71.054	0.961	

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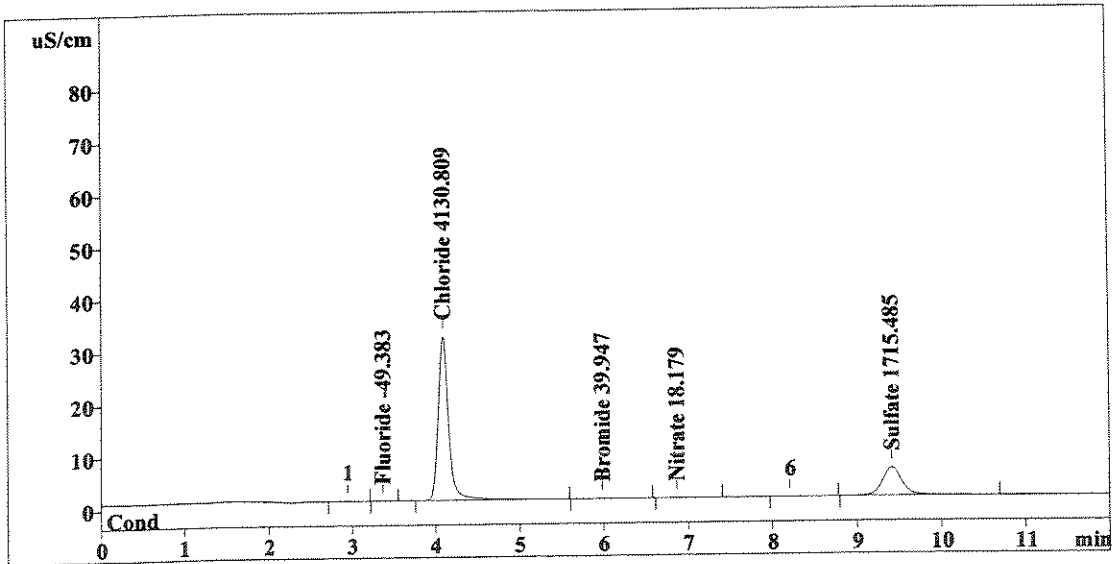
Method 300.0/9056

Report date: 7/10/2008 16:01:06
 Printed by: User
 Ident: 1112809
 Analysis from: 7/10/2008 15:49:08
 File: S7101549.CHW

Last save: 7/10/2008 16:00:56

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38100
 SAMPLE: C
 Vial number: 84
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.089	-49.383	Fluoride
2	4.09	268.673	4130.809	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	0.451	39.947	Bromide
5	6.86	0.294	18.179	Nitrate
6	9.41	86.157	1715.485	Sulfate
<hr/>				
6	12.00	355.664	5953.804	

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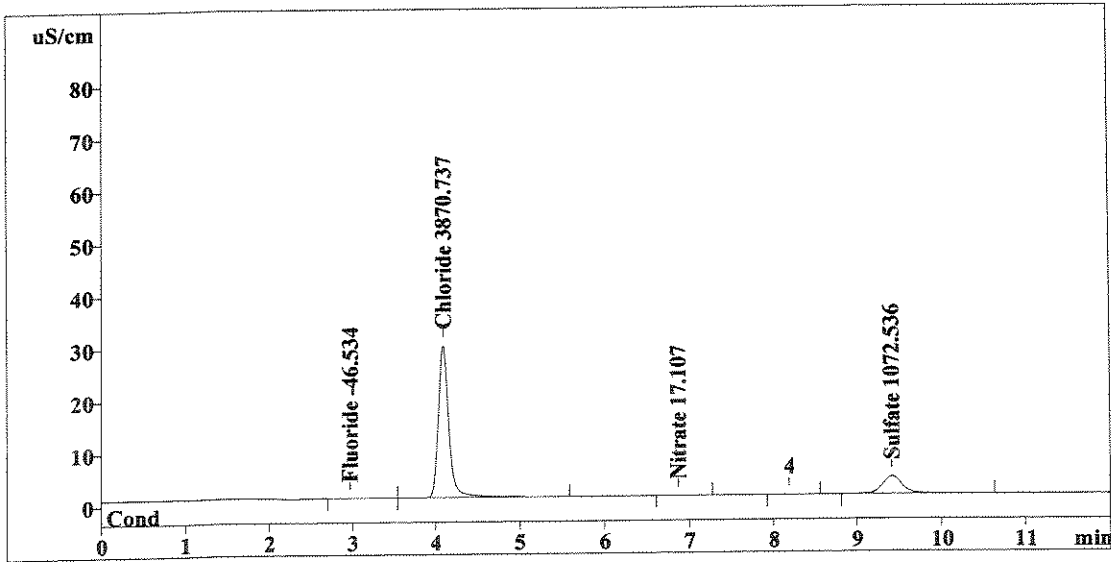
Method 300.0/9056

Report date: 7/10/2008 16:15:12
 Printed by: User
 Ident: 1112810
 Analysis from: 7/10/2008 16:03:14
 File: S7101603.CHW

Last save: 7/10/2008 16:15:02

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38101
 SAMPLE: C
 Vial number: 85
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.97	0.399	-46.534	Fluoride
2	4.09	251.662	3870.737	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.87	0.116	17.107	Nitrate
6	9.41	54.267	1072.536	Sulfate
6	12.00	306.443	5006.914	

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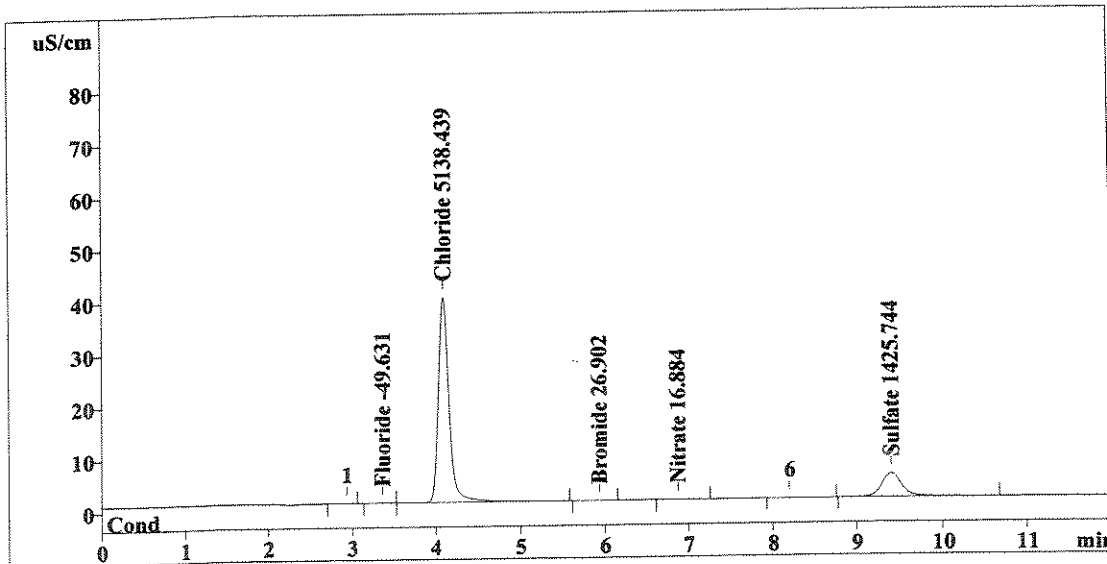
Method 300.0/9056

Report date: 7/10/2008 16:29:18
 Printed by: User
 Ident: 1112811
 Analysis from: 7/10/2008 16:17:19
 File: S7101617.CHW

Last save: 7/10/2008 16:29:08

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38102
 SAMPLE: C
 Vial number: 86
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.062	-49.631	Fluoride
2	4.09	334.582	5138.439	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.95	0.082	26.902	Bromide
5	6.87	0.079	16.884	Nitrate
6	9.40	71.786	1425.744	Sulfate
6	12.00	406.590	6657.599	

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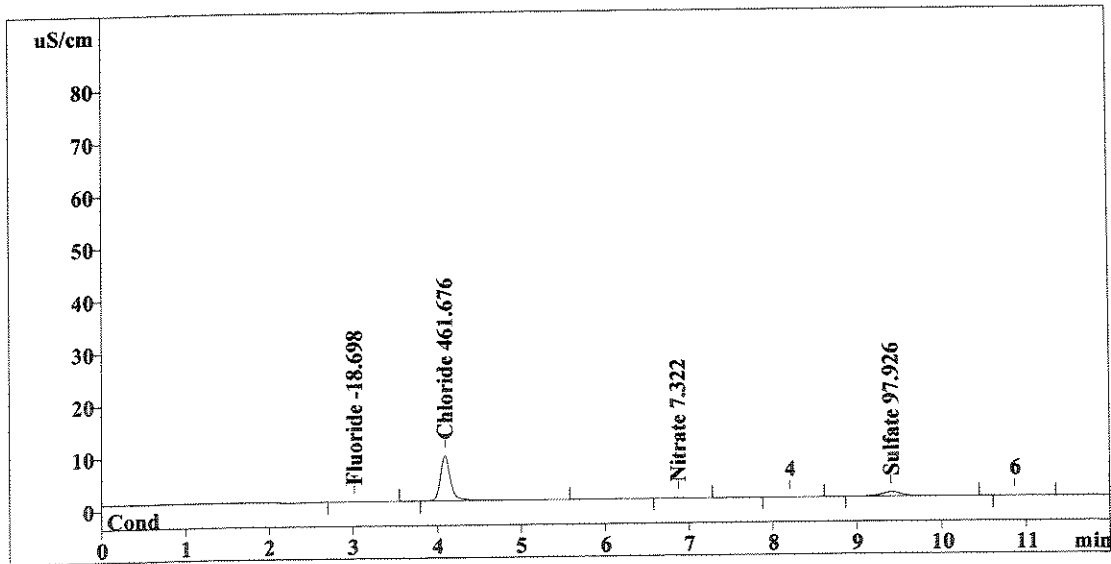
Method 300.0/9056

Report date: 7/10/2008 16:43:23
 Printed by: User
 Ident: 1113136
 Analysis from: 7/10/2008 16:31:25
 File: S7101631.CHW

Last save: 7/10/2008 16:43:13

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38103
 SAMPLE: C
 Vial number: 87
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.01	0.376	-18.698	Fluoride
2	4.09	73.974	461.676	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.87	0.315	7.322	Nitrate
6	9.41	13.212	97.926	Sulfate
6	12.00	87.877	585.623	

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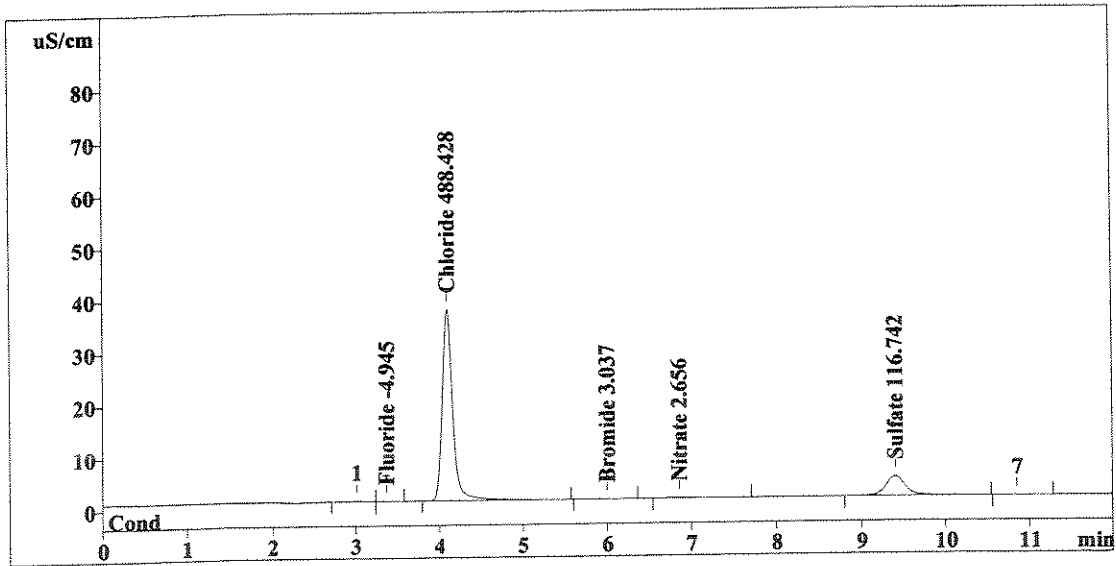
Method 300.0/9056

Report date: 7/10/2008 16:57:29
 Printed by: User
 Ident: 1113136
 Analysis from: 7/10/2008 16:45:31
 File: S7101645.CHW

Last save: 7/10/2008 16:57:19

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38104
 SAMPLE: S
 Vial number: 88
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.37	0.081	-4.945	Fluoride
2	4.09	317.957	488.428	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.00	0.180	3.037	Bromide
5	6.86	1.689	2.656	Nitrate
6	9.40	58.973	116.742	Sulfate
6	12.00	378.880	615.808	

OK
7/10/08

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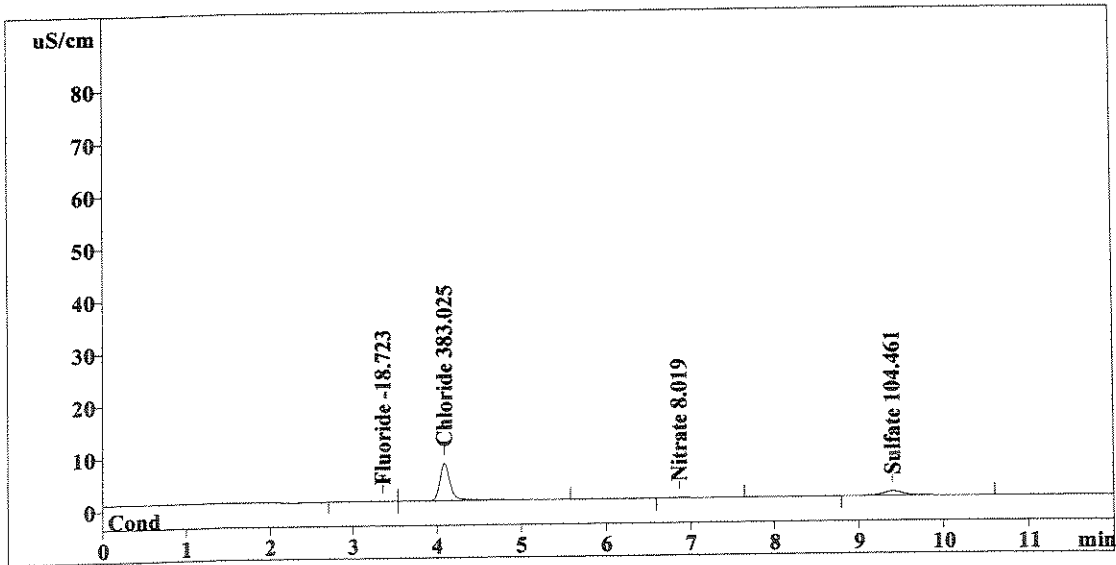
Method 300.0/9056

Report date: 7/10/2008 17:11:35
 Printed by: User
 Ident: 1113137
 Analysis from: 7/10/2008 16:59:37
 File: S7101659.CHW

Last save: 7/10/2008 17:11:25

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38105
 SAMPLE: C
 Vial number: 89
 Volume: 1.0 µL
 Dilution: 400.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.369	-18.723	Fluoride
2	4.09	61.112	383.025	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.87	0.605	8.019	Nitrate
6	9.40	14.023	104.461	Sulfate
<hr/>				
6	12.00	76.109	514.228	

Report 1/00
7/10/08

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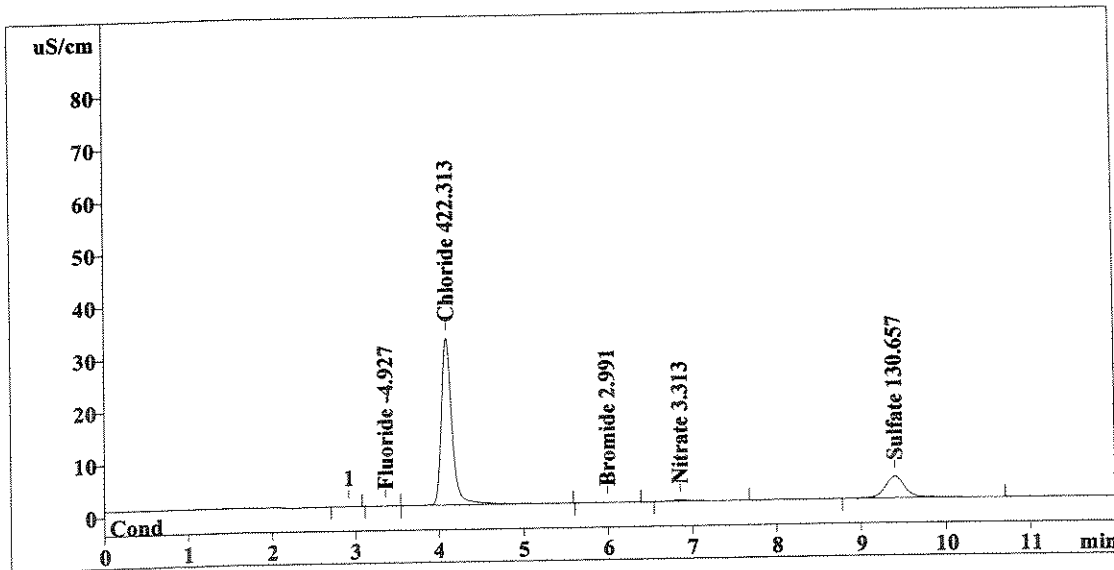
Method 300.0/9056

Report date: 7/10/2008 17:25:41
 Printed by: User
 Ident: 1113137
 Analysis from: 7/10/2008 17:13:42
 File: S7101713.CHW

Last save: 7/10/2008 17:25:31

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38106
 SAMPLE: S
 Vial number: 90
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.101	-4.927	Fluoride
2	4.09	274.712	422.313	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	0.167	2.991	Bromide
5	6.85	2.780	3.313	Nitrate
6	9.40	65.875	130.657	Sulfate
<hr/>				
6	12.00	343.634	564.201	

Handwritten notes: 'OK' next to Chloride and Sulfate rows, and 'CWT 7/10/08' at the bottom right of the table.

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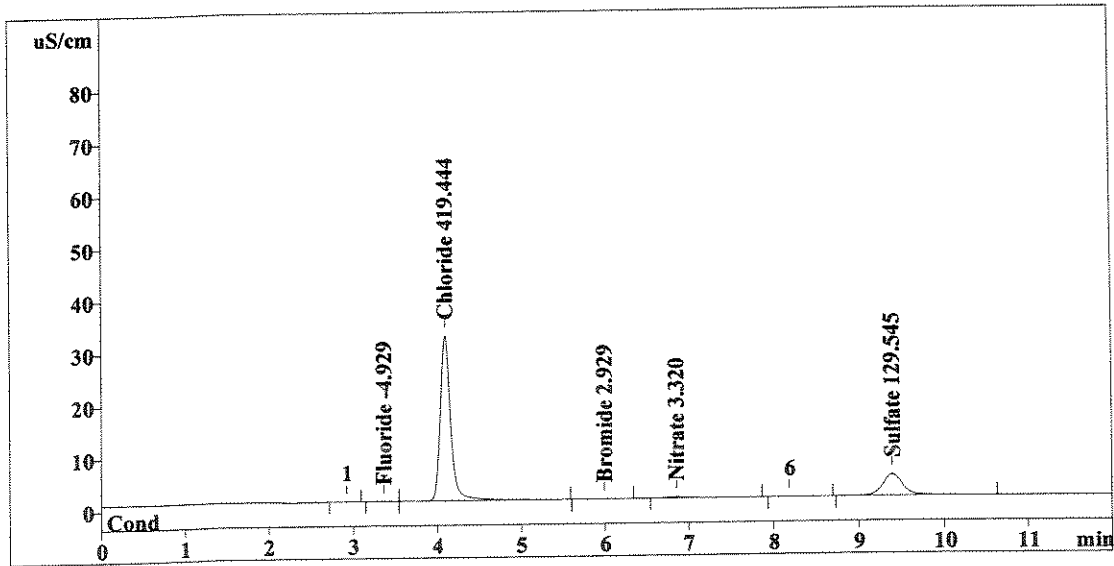
Method 300.0/9056

Report date: 7/10/2008 17:39:46
 Printed by: User
 Ident: 1113137 DUP
 Analysis from: 7/10/2008 17:27:48
 File: S7101727.CHW

Last save: 7/10/2008 17:39:36

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38107
 SAMPLE: S
 Vial number: 91
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.099	-4.929	Fluoride
2	4.09	272.835	419.444	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.00	0.150	2.929	Bromide
5	6.85	2.792	3.320	Nitrate
6	9.39	65.323	129.545	Sulfate
<hr/>				
6	12.00	341.199	560.166	

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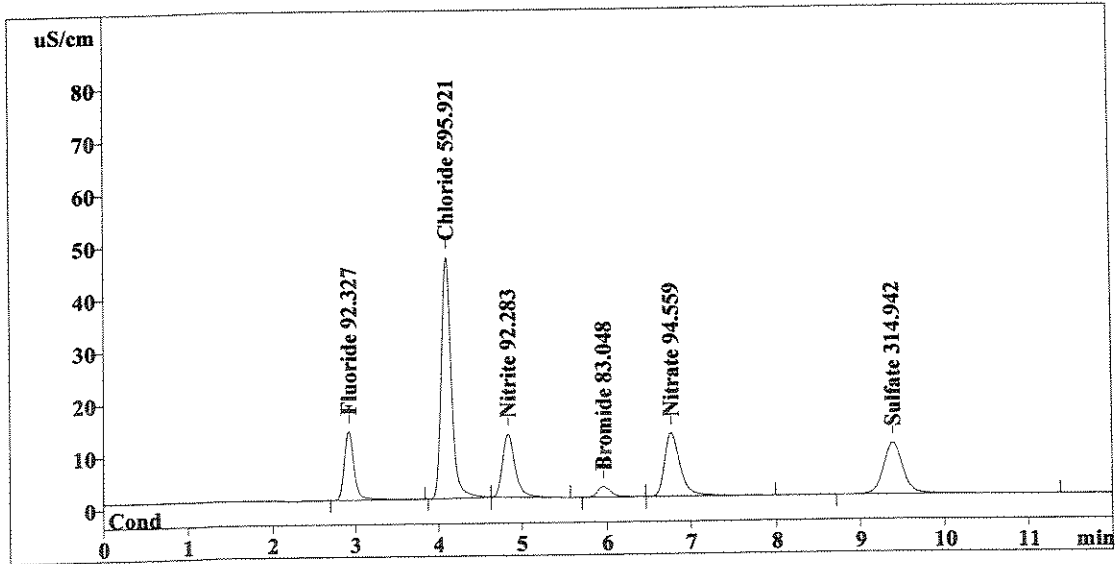
Method 300.0/9056

Report date: 7/10/2008 17:53:52
 Printed by: User
 Ident: 1113137 SPK
 Analysis from: 7/10/2008 17:41:54
 File: S7101741.CHW

Last save: 7/10/2008 17:53:42

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38108
 SAMPLE: S
 Vial number: 92
 Volume: 1.0 µL
 Dilution: 100.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	105.995	92.327	Fluoride
2	4.09	388.268	595.921	Chloride
3	4.83	126.111	92.283	Nitrite
4	5.96	22.801	83.048	Bromide
5	6.77	154.545	94.559	Nitrate
6	9.39	157.279	314.942	Sulfate
<hr/>				
6	12.00	954.999	1273.080	

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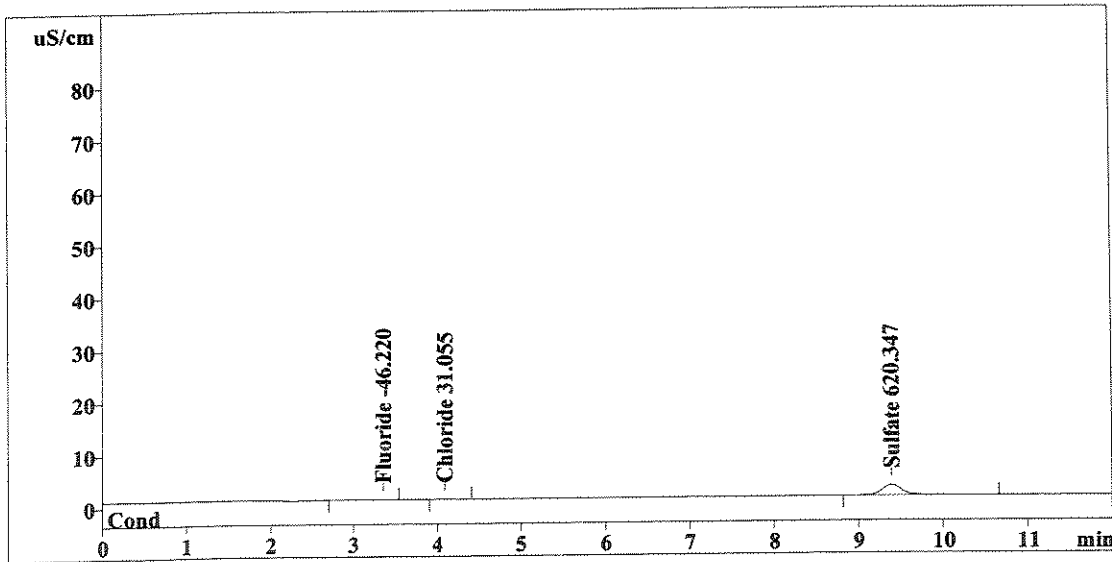
Method 300.0/9056

Report date: 7/10/2008 18:07:58
 Printed by: User
 Ident: 1115469
 Analysis from: 7/10/2008 17:56:00
 File: S7101756.CHW

Last save: 7/10/2008 18:07:48

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38109
 SAMPLE: S
 Vial number: 93
 Volume: 1.0 µL
 Dilution: 1000.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.433	-46.220	Fluoride
2	4.09	0.510	31.055	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	31.838 <i>upt 1/400</i>	620.347	Sulfate
6	12.00	32.781	697.621	

*CMY
7/10/08*

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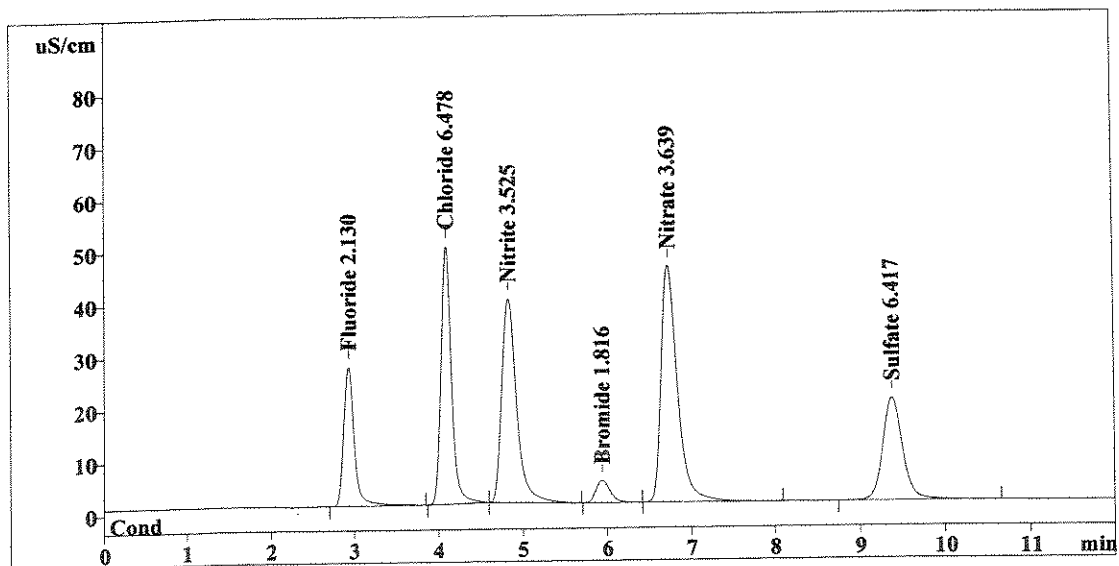
Ion Chromatography Analytical Report
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 Report date: 7/10/2008 18:22:04
 Printed by: User
 Ident: CCV
 Analysis from: 7/10/2008 18:10:05
 File: S7101810.CHW

Method 300.0/9056

Last save: 7/10/2008 18:21:54

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38110
 SAMPLE:
 Vial number: 94
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	237.411	2.130	Fluoride
2	4.09	422.200	6.478	Chloride
3	4.82	479.734	3.525	Nitrite
4	5.94	50.666	1.816	Bromide
5	6.73	602.465	3.639	Nitrate
6	9.39	319.335	6.417	Sulfate
6		12.00	2111.811	24.005

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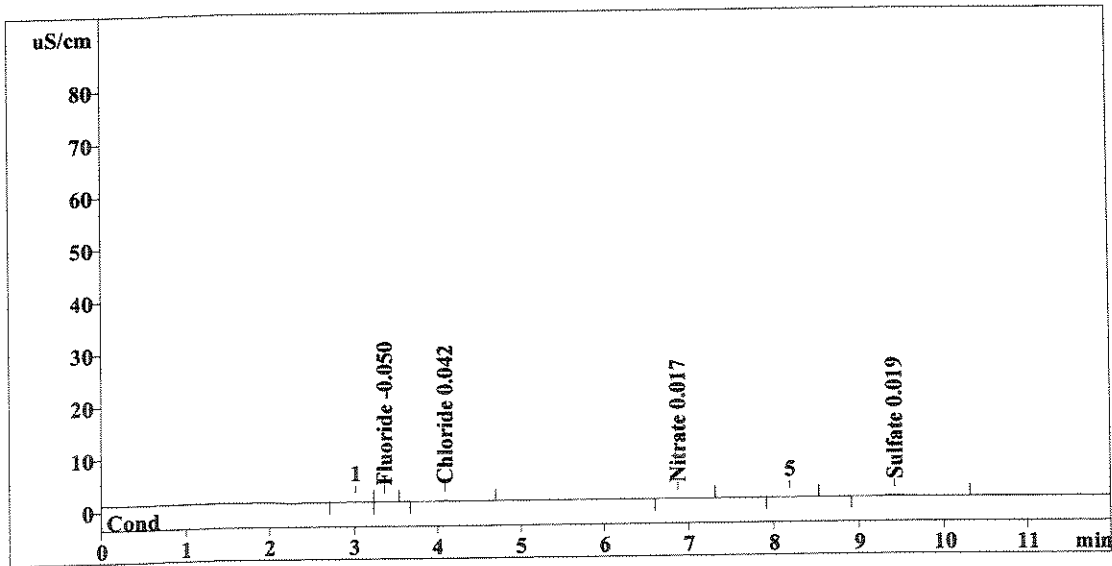
Method 300.0/9056

Report date: 7/10/2008 18:45:03
 Printed by: User
 Ident: CCB
 Analysis from: 7/10/2008 18:33:05
 File: S7101833.CHW

Last save: 7/10/2008 18:44:54

Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 38111
 SAMPLE:
 Vial number: 95
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 7/9/2008 19:46:51



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.061	-0.050	Fluoride
2	4.09	1.219	0.042	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.87	0.167	0.017	Nitrate
6	9.42	2.008	0.019	Sulfate
6	12.00	3.454	0.128	

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Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861

Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 06/10/2008Loop size: 50 uL LoopAnalyst: C. WoodsAnalysis Date: 7-9-08

Is copy of LCS attached to run?

YES / NO**Standards Prep Dates & Log ID's:**

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
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 100mL 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	WC720050A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC720093A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC720093B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC720093C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC720093D
NO3		50			1.0	CMW	7/3/08	E	7/16/08	WC720093E
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
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Method 300.0/9056

Report date: 6/10/2008 15:04:34
Printed by: User
Ident: LCS
Analysis from: 6/10/2008 14:20:35
File: s6101420.chw
Modified!
Method: 06-10-08CAL.mtw
Run operator: User
Analysis number: 36794
SAMPLE:
Vial number: 12
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

Last save: 6/10/2008 14:32:48

Last save: 6/10/2008 13:48:56

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

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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

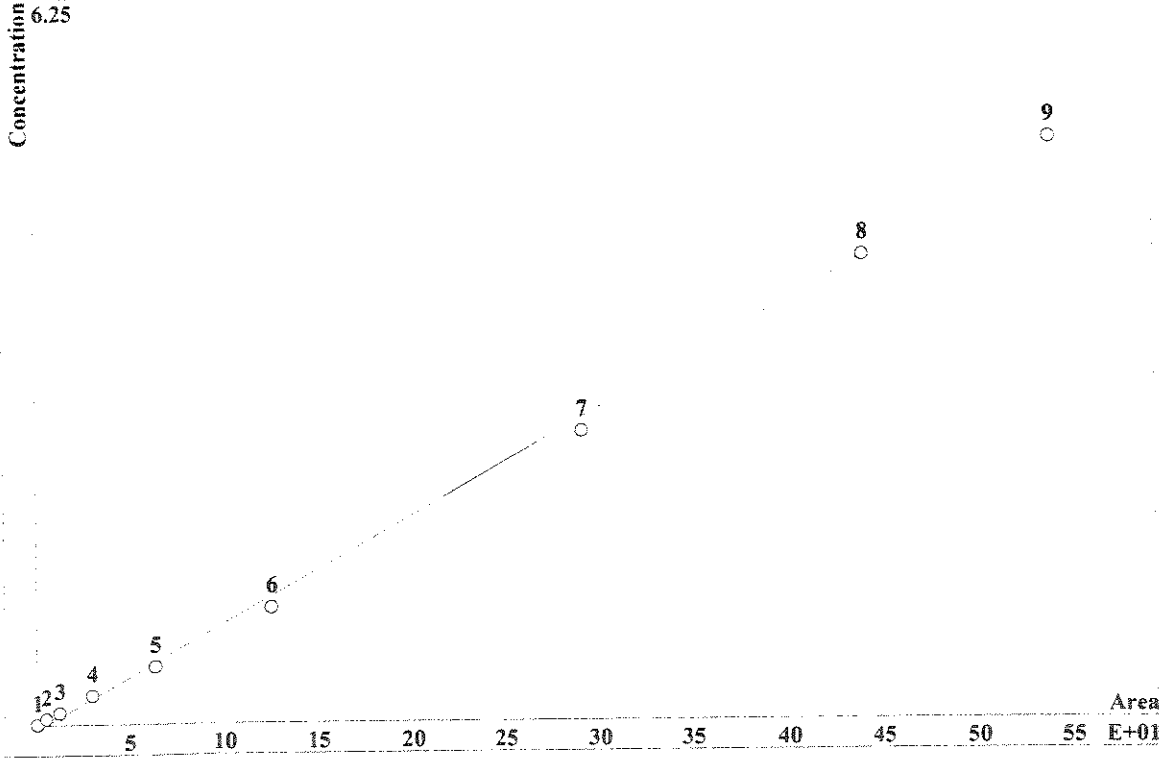
INTEGRATION DEFAULTS

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: $Q = 0.00918405 \cdot A - 0.0501966$
 RSD: 5.110 %
 Correlation coefficient: 0.999292

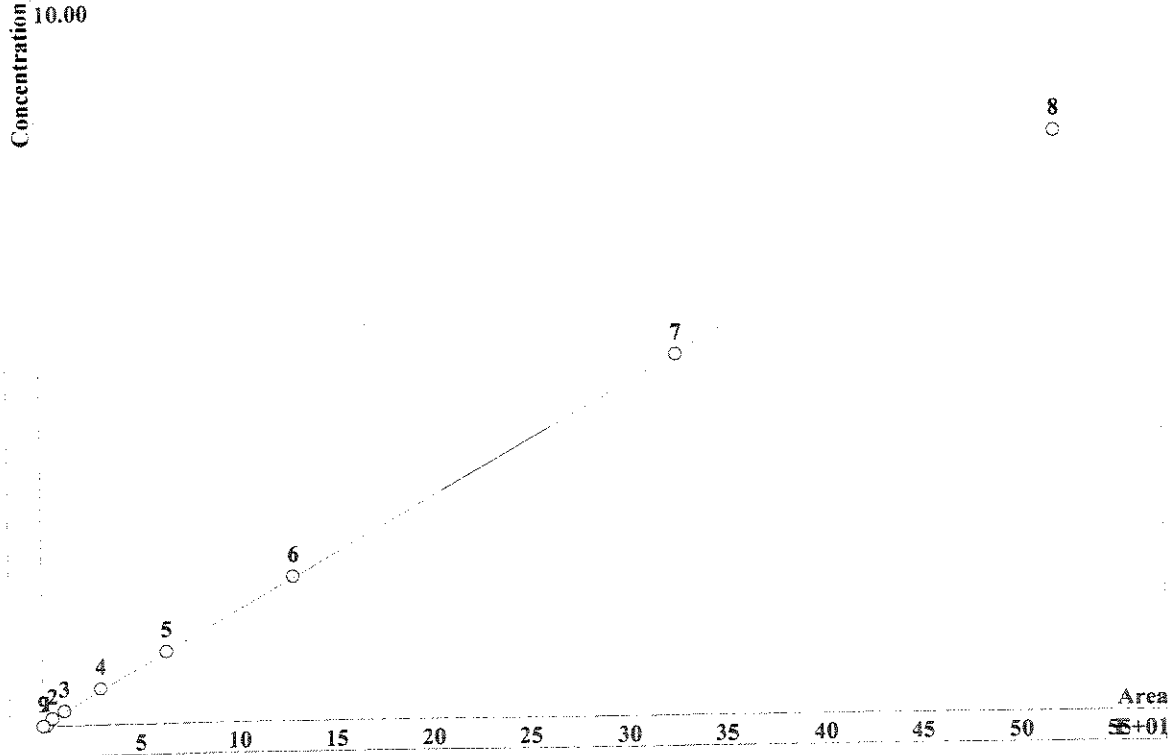


K3 = 0 K2 = 0 K1 = 0.00918405 K0 = -0.0501966
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

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: $Q = 0.0152883 \cdot A + 0.0232615$
 RSD: 1.182 %
 Correlation coefficient: 0.999969

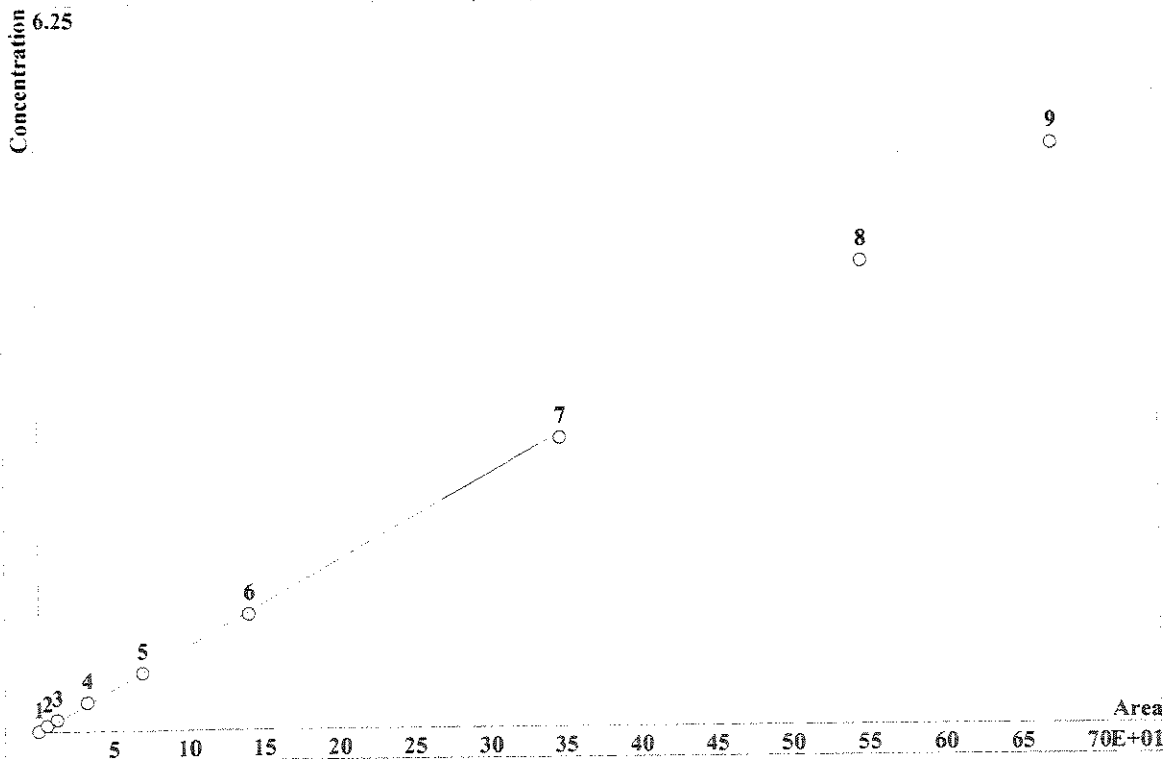


K3 = 0 K2 = 0 K1 = 0.0152883 K0 = 0.0232615
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

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: $Q = 0.00735996 \cdot A - 0.00533613$
 RSD: 1.988 %
 Correlation coefficient: 0.999893

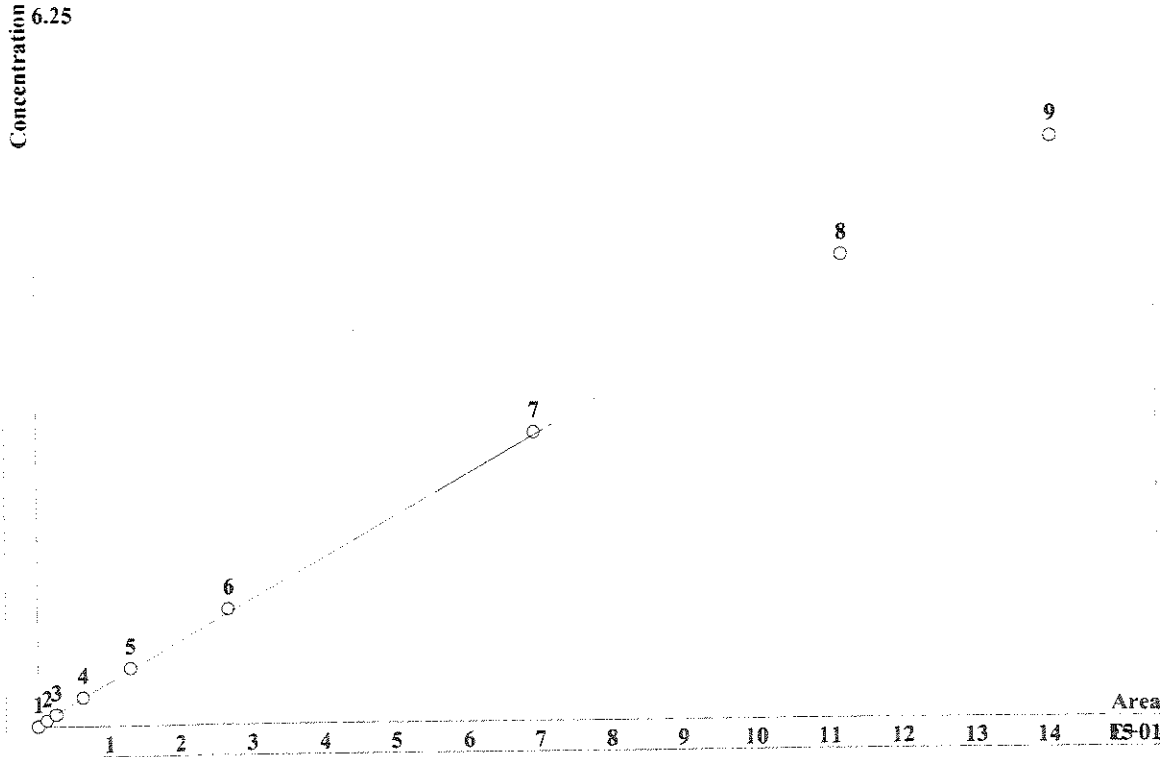


K3 = 0 K2 = 0 K1 = 0.00735996 K0 = -0.00533613
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

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: $Q = 0.0353707 \cdot A + 0.0239902$
 RSD: 1.470 %
 Correlation coefficient: 0.999941

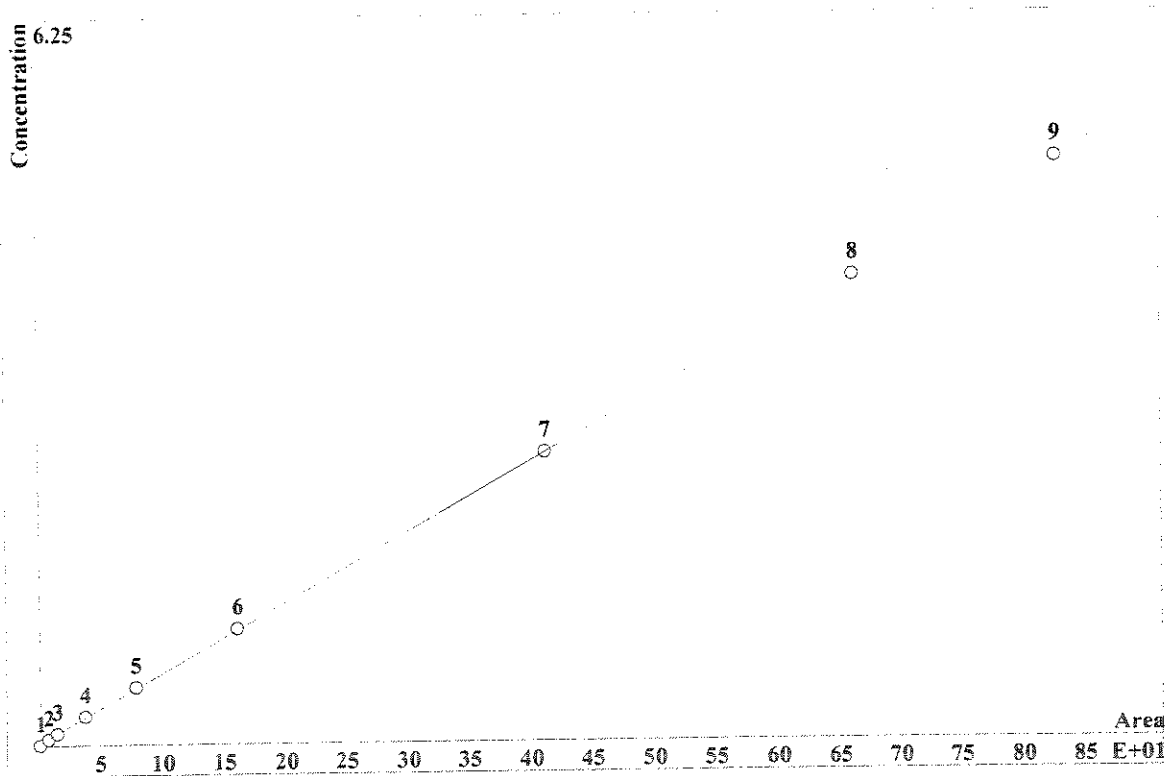


K3 = 0 K2 = 0 K1 = 0.0353707 K0 = 0.0239902
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

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: $Q = 0.00601237 \cdot A + 0.0164087$
 RSD: 0.705 %
 Correlation coefficient: 0.999987

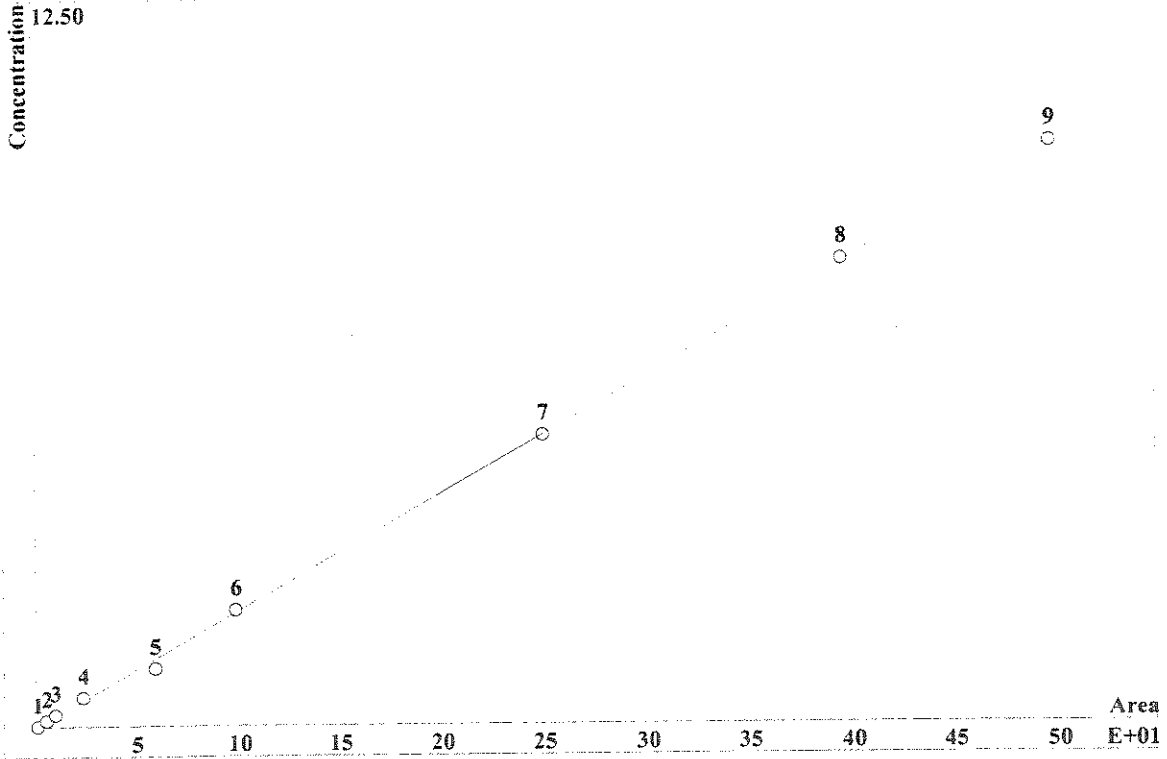


K3 = 0 K2 = 0 K1 = 0.00601237 K0 = 0.0164087
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

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: $Q = 0.0201616 \cdot A - 0.0215664$
 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

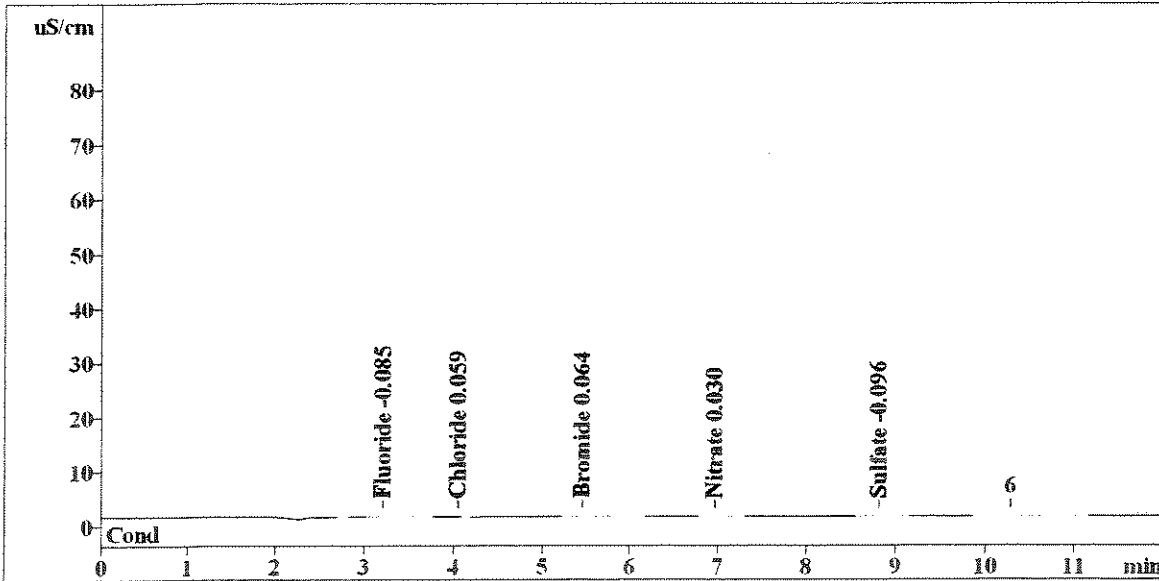
Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.03549	0.6807	1e-05	1	10.29	Yes	s6101036.chw
2	0.2733	4.966	0.1	1	10.29	Yes	s6101050.chw
3	0.5256	9.443	0.2	1	10.29	Yes	s6101104.chw
4	1.314	23.23	0.5	1	10.29	Yes	s6101118.chw
5	3.37	58.92	1	1	10.29	Yes	s6101132.chw
6	5.622	98.22	2	1	10.29	Yes	s6101146.chw
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

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
 Run operator: User
 Analysis number: 36783
 SAMPLE: ANALYST: TC
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 10:14:45



Quantitation method: Custom

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	0.00	0.000	0.000	Nitrite
4	5.45	0.168	0.064	Bromide
5	6.98	0.076	0.030	Nitrate
6	8.82	0.059	-0.096	Sulfate
6	12.00	2.284	0.334	

Needs Reprocess

NO NO2 peak detected

Metrohm software needs us to manually assign a peak area in order for it to be used in curve

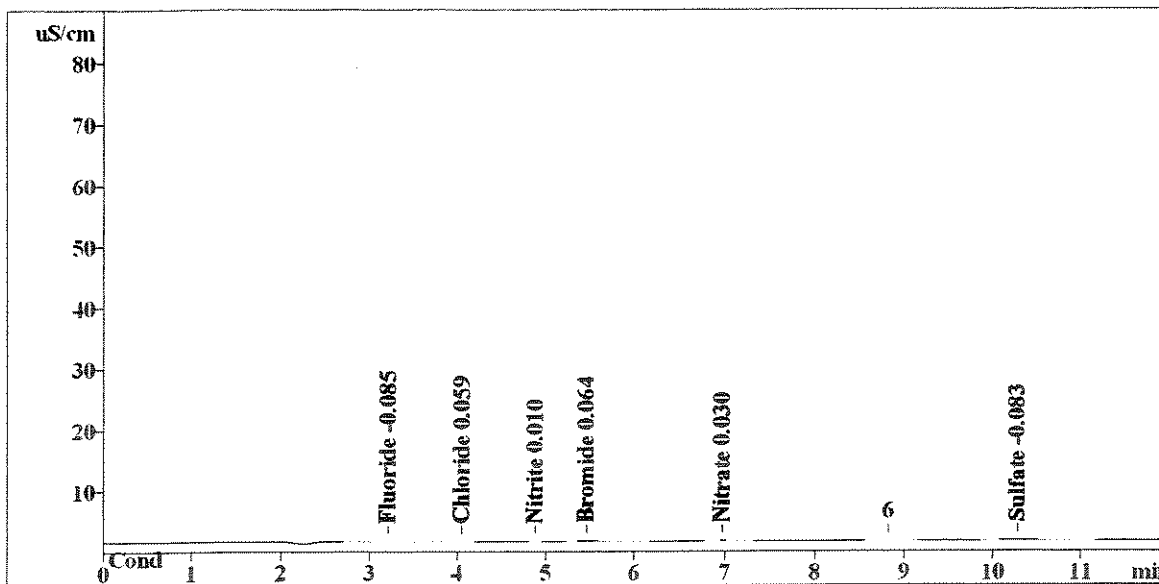
This report has been created by IC Net
 METROHM LTD

*TC 6/10/08
 SD 6/10/08*

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
 Modified! Manual peaks!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36783
 SAMPLE: ANALYST: TC
 Vial number: 1
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 10:48:17

Last save: 6/10/2008 10:14:45



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

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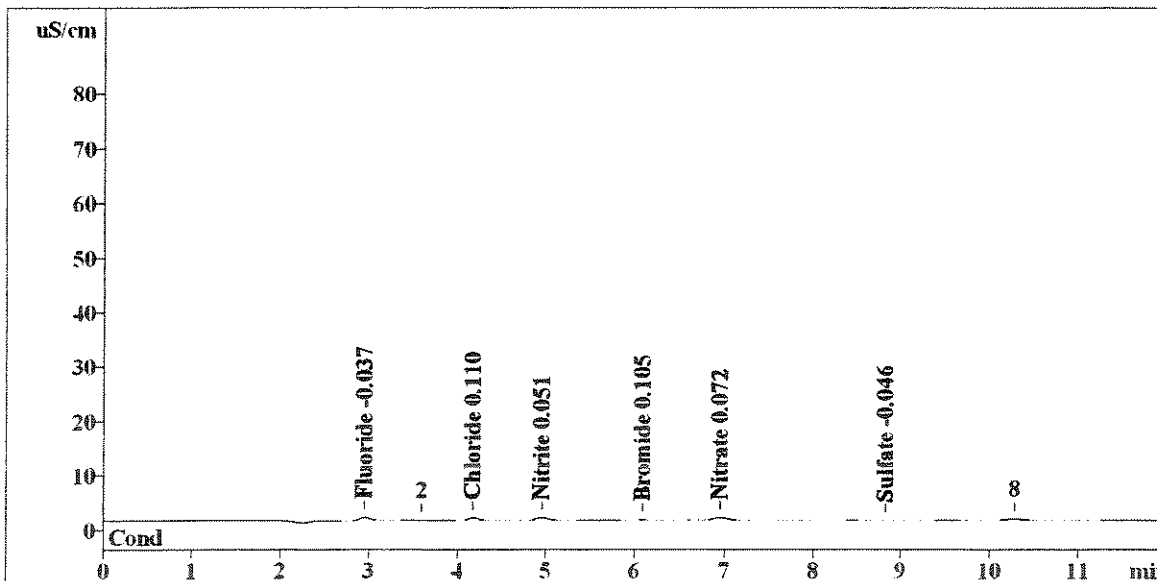
TC 6/10/08
SD 6/10/08

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
 Run operator: User
 Analysis number: 36784
 SAMPLE: PIPETTES: LUCY, MINE
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 10:48:17



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
 for
 R.T.*

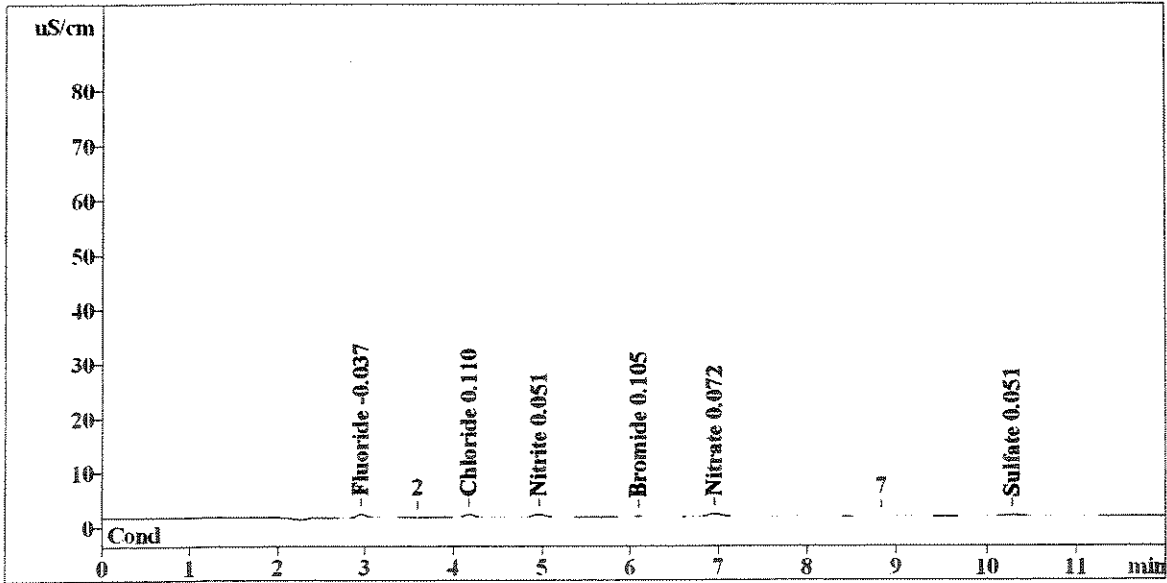
This report has been created by IC Net
 METROHM LTD

TC 6/10/08

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
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36784
 SAMPLE: PIPETTES: LUCY, MINE
 Vial number: 2
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:02:28

Last save: 6/10/2008 10:48:17



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

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TC 6/10/08

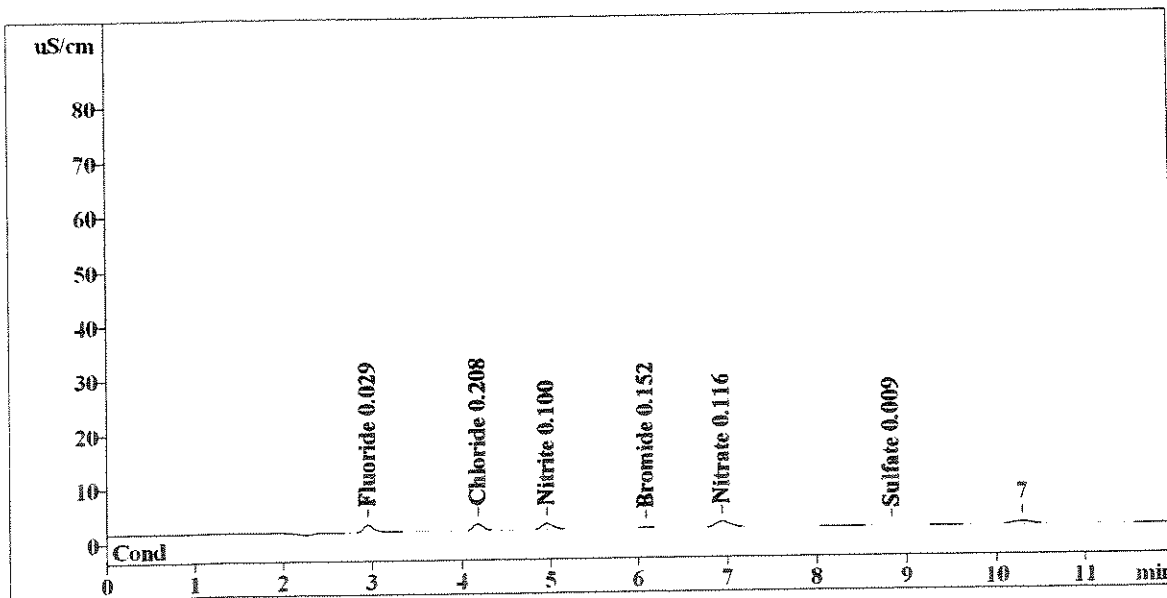
SD 6/10/08

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
 Run operator: User
 Analysis number: 36785
 SAMPLE:
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:02:28



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	

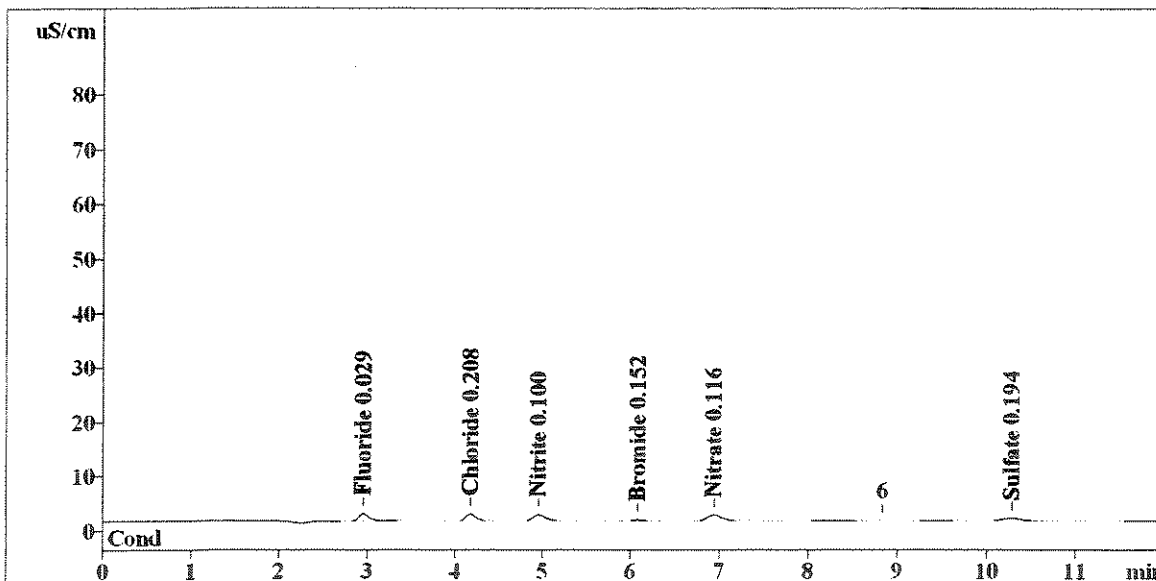
Reprocess for SO4 R.T.

This report has been created by IC Net
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TC 6/10/08

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
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36785
 SAMPLE:
 Vial number: 3
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:16:44
 Last save: 6/10/2008 11:02:28



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

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TC 6/10/08

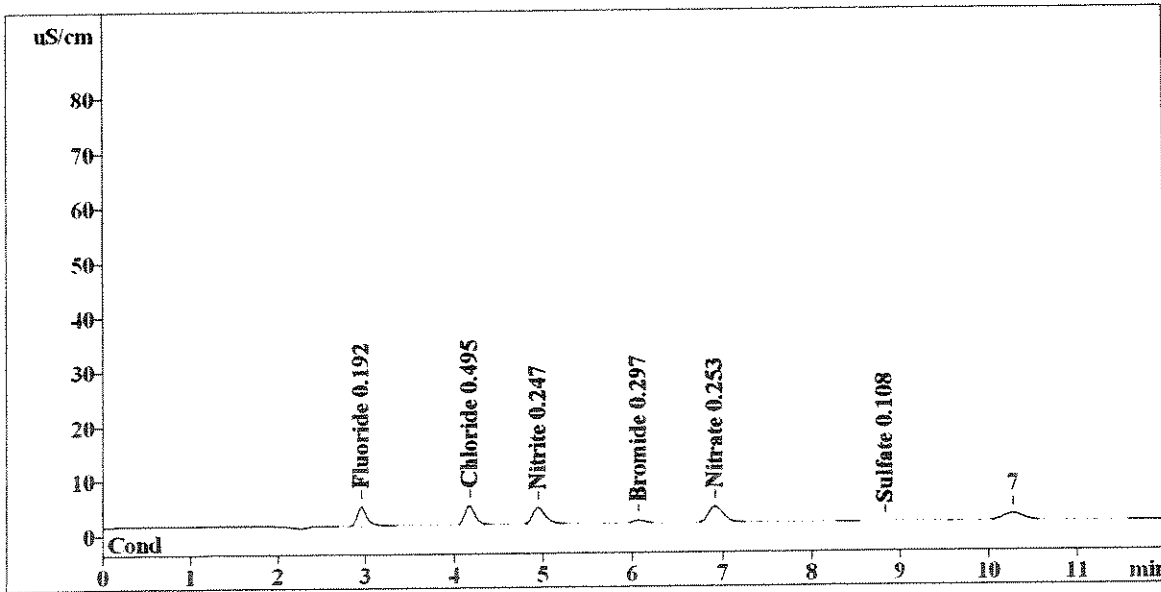
SD 6/12/08

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
 Run operator: User
 Analysis number: 36786
 SAMPLE:
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:16:44



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 process
 Sp4
 for
 RT.*

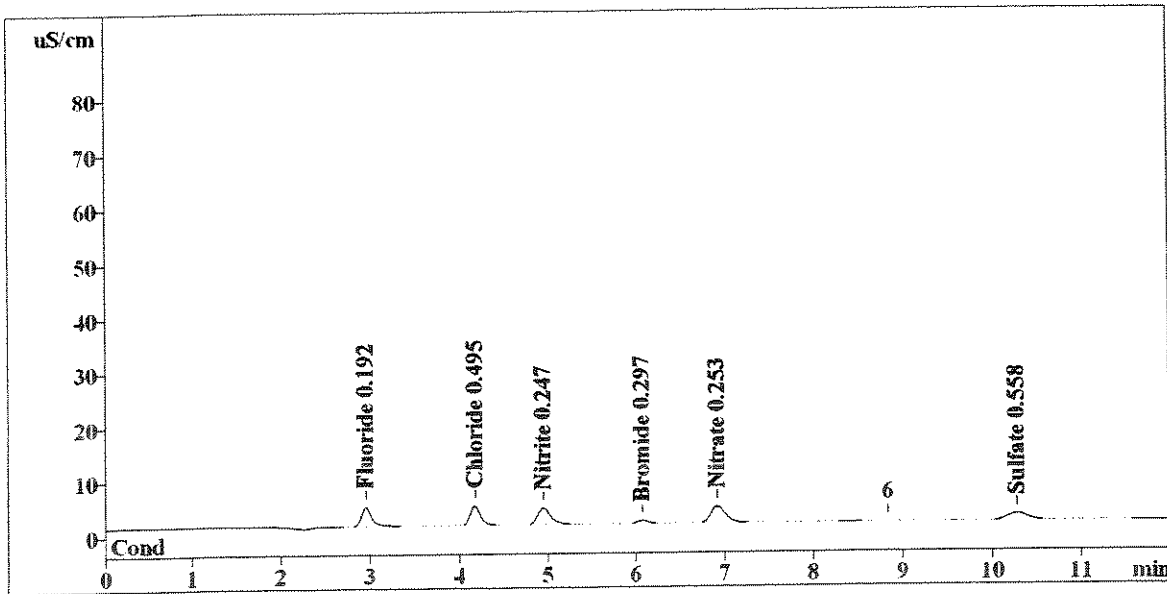
This report has been created by IC Net
 METROHM LTD

TC 6/10/08

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!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36786
 SAMPLE:
 Vial number: 4
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:30:49

Last save: 6/10/2008 11:16:44



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	10.28	23.227	0.558	Sulfate
6	12.00	159.366	2.043	

Reprocessed

OK

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TC 6/10/08

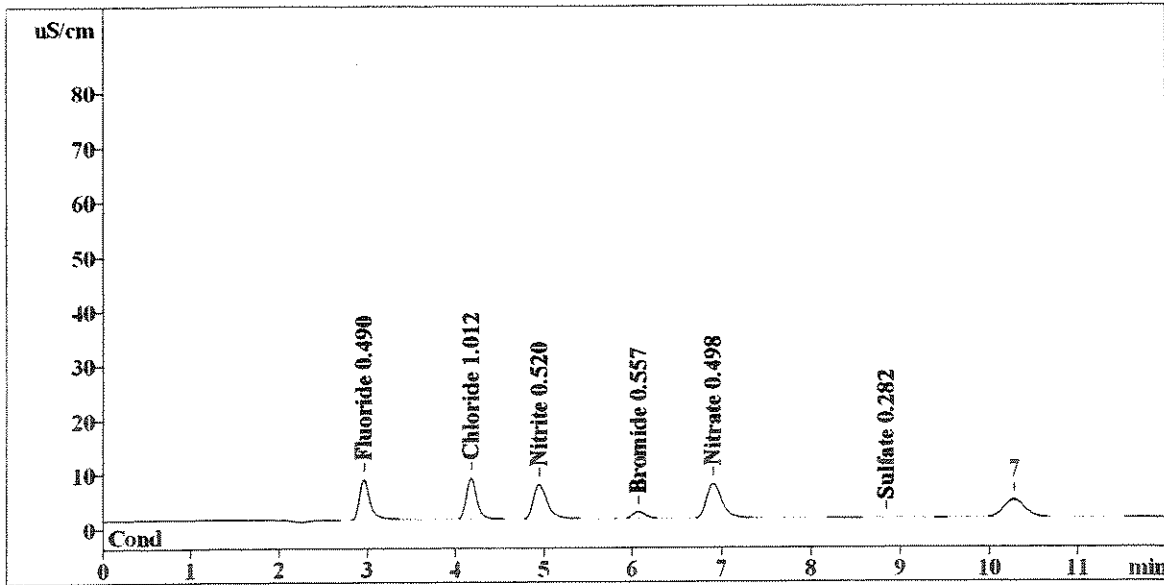
SD 6/10/08

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
 Run operator: User
 Analysis number: 36787
 SAMPLE:
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:30:49



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	

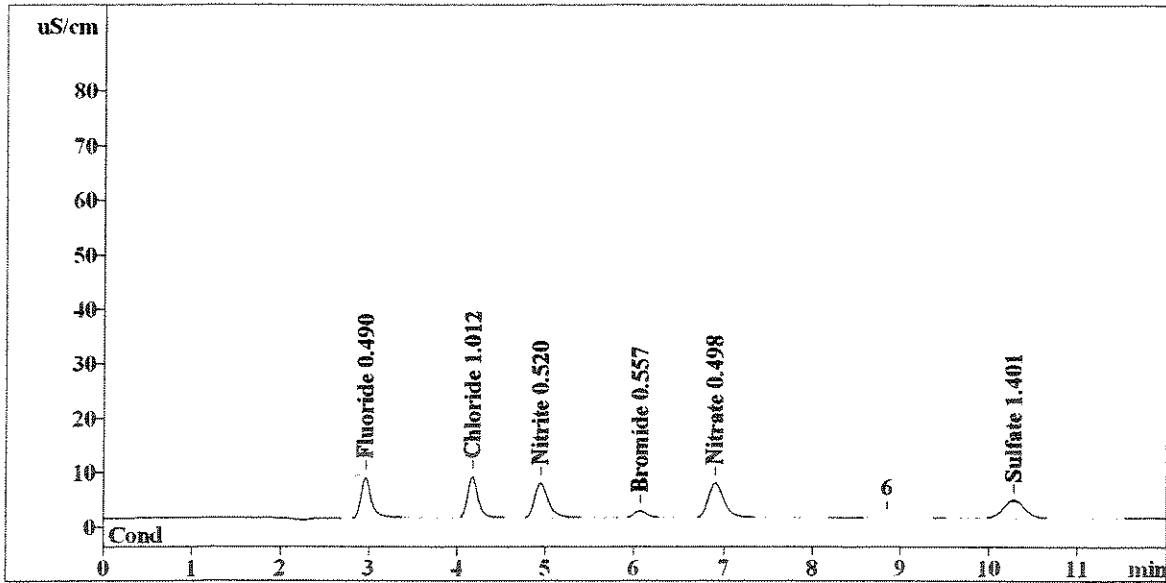
Reprocess SO4 for R.T.

This report has been created by IC Net
 METROHM LTD

TC 6/10/08

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
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36787
 SAMPLE:
 Vial number: 5
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:44:55
 Last save: 6/10/2008 11:30:49



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	10.28	58.915	1.401	Sulfate
6	12.00	346.866	4.479	

Reprocessed
OK

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 METROHM LTD

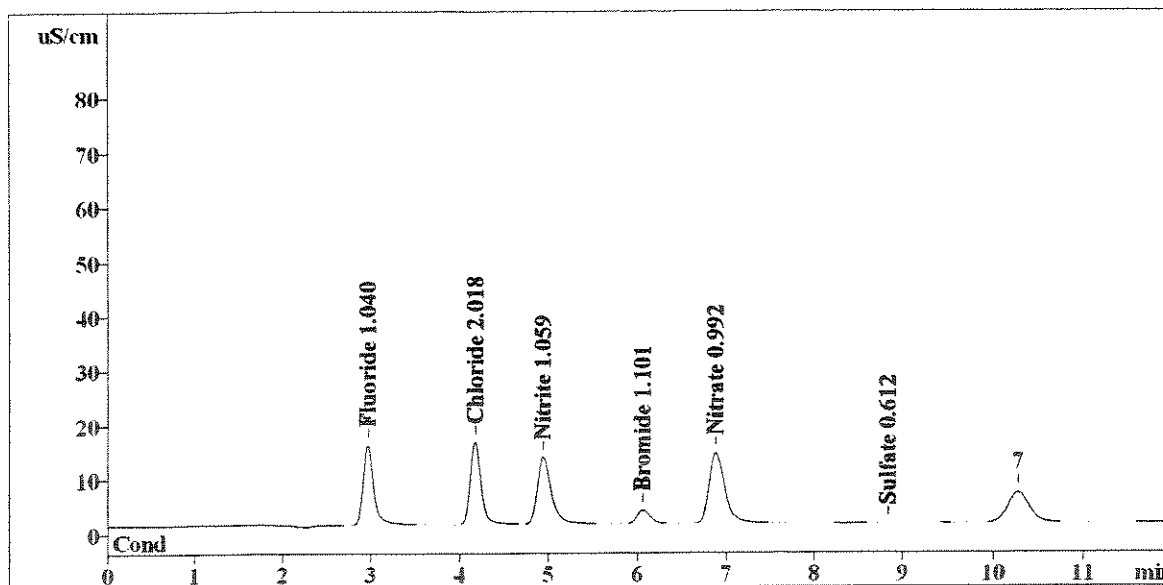
TE 6/10/08
SD 6/10/08

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
 Run operator: User
 Analysis number: 36788
 SAMPLE:
 Vial number: 6
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:44:55



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

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

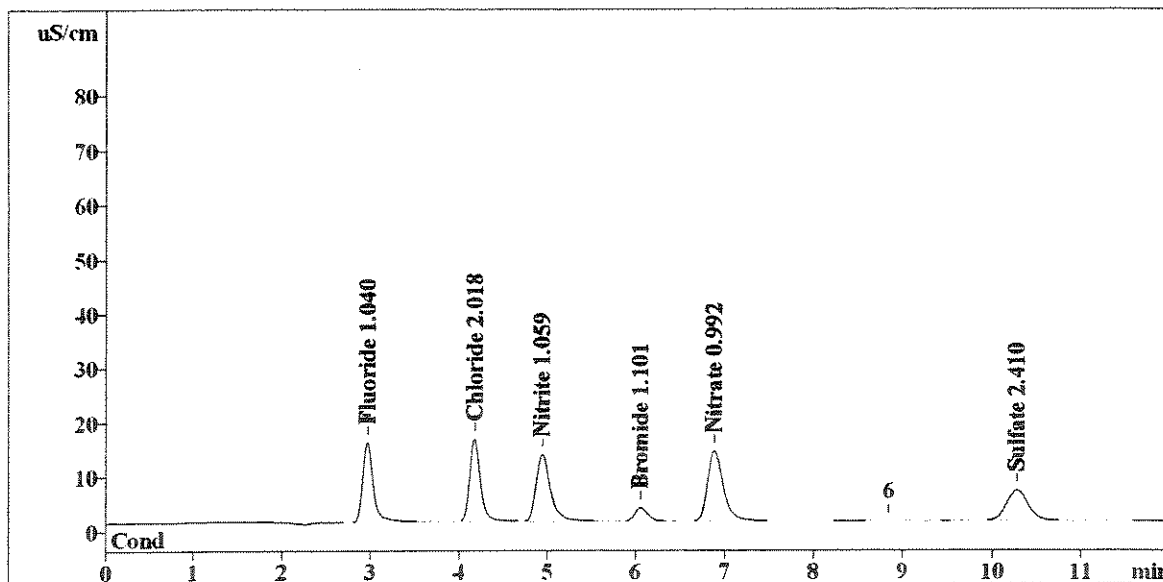
SAMPLE:

Vial number: 6

Volume: 1.0 µL

Dilution: 1.00

Amount: 1.0000



Quantitation method: Custom

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	

Reprocessed
OK

This report has been created by IC Net METROHM LTD

TC 6/10/08

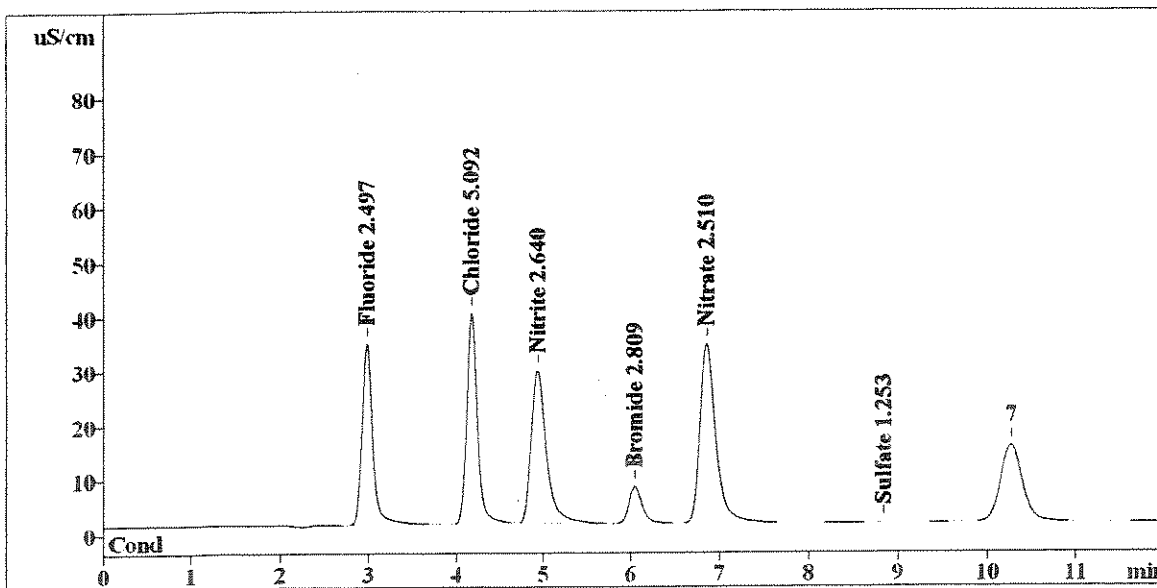
SD 6/10/08

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
 Run operator: User
 Analysis number: 36789
 SAMPLE:
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 11:59:01



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.

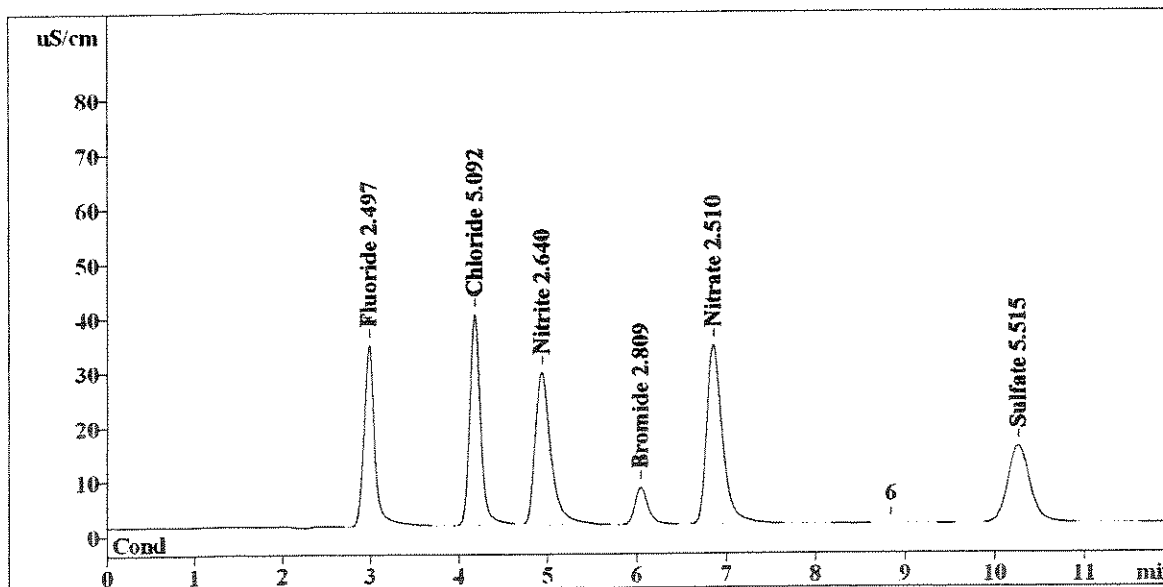
This report has been created by IC Net
 METROHM LTD

TC 6/10/08

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
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36789
 SAMPLE:
 Vial number: 7
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 12:13:07

Last save: 6/10/2008 11:59:01



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	10.27	249.613	5.515	Sulfate
6	12.00	1695.277	21.062	

Reprocessed

OK

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TC 6/10/08

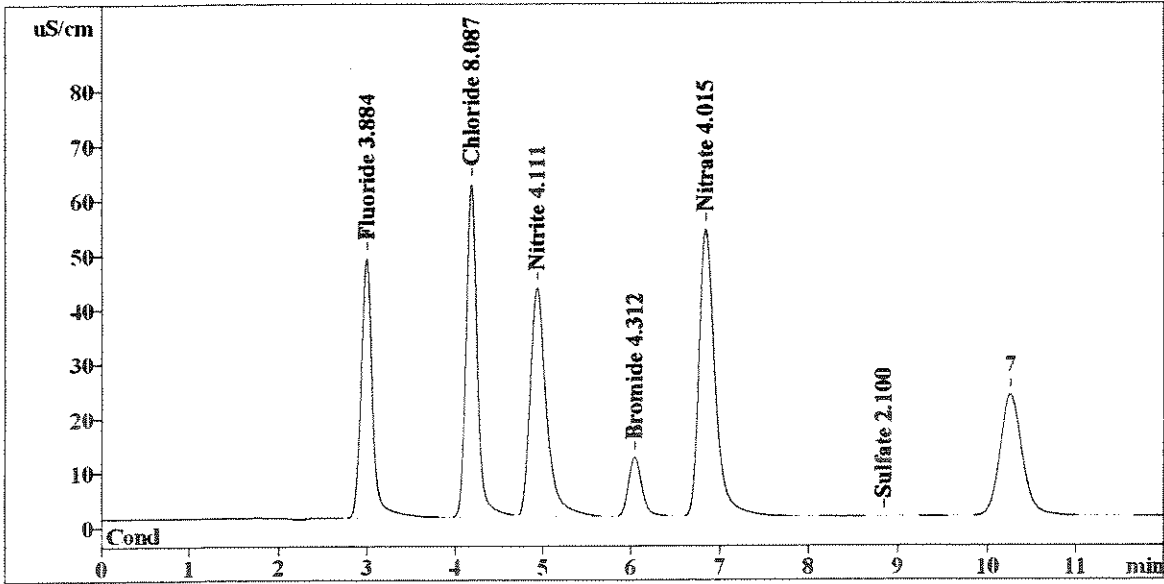
SP 6/10/08

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
 Run operator: User
 Analysis number: 36790
 SAMPLE:
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 12:13:07



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
<hr/>				
6	12.00	2285.058	26.509	

Reprocess for SO4 R.T.

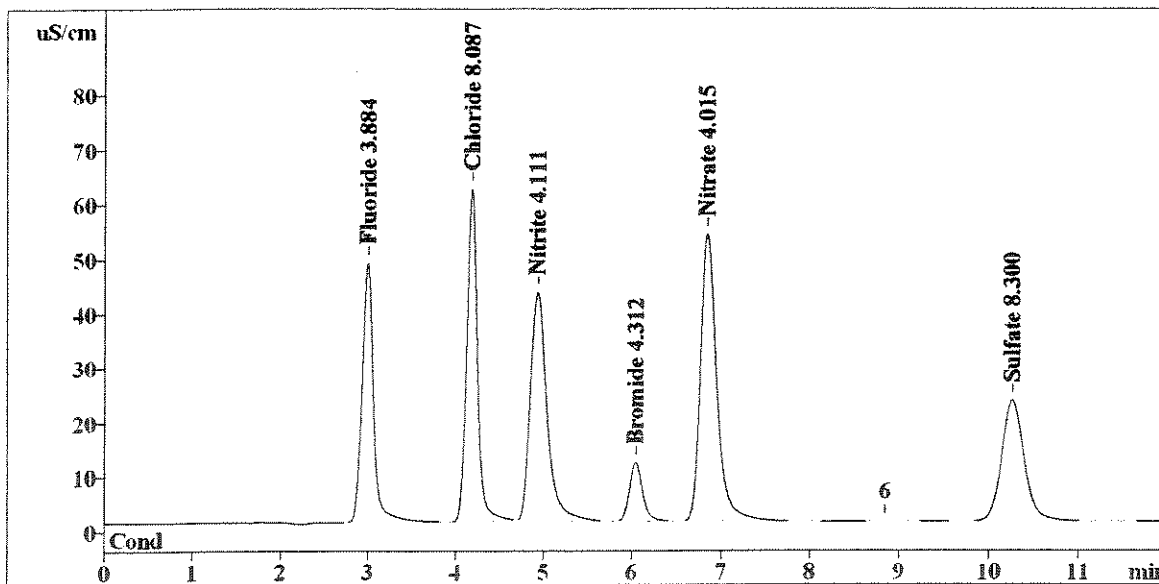
This report has been created by IC Net
 METROHM LTD

TC 6/10/08

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
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36790
 SAMPLE:
 Vial number: 8
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 12:27:13

Last save: 6/10/2008 12:13:07



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	10.26	395.831	8.300	Sulfate
6	12.00	2680.813	32.708	

Reprocessed
OK

This report has been created by IC Net
 METROHM LTD

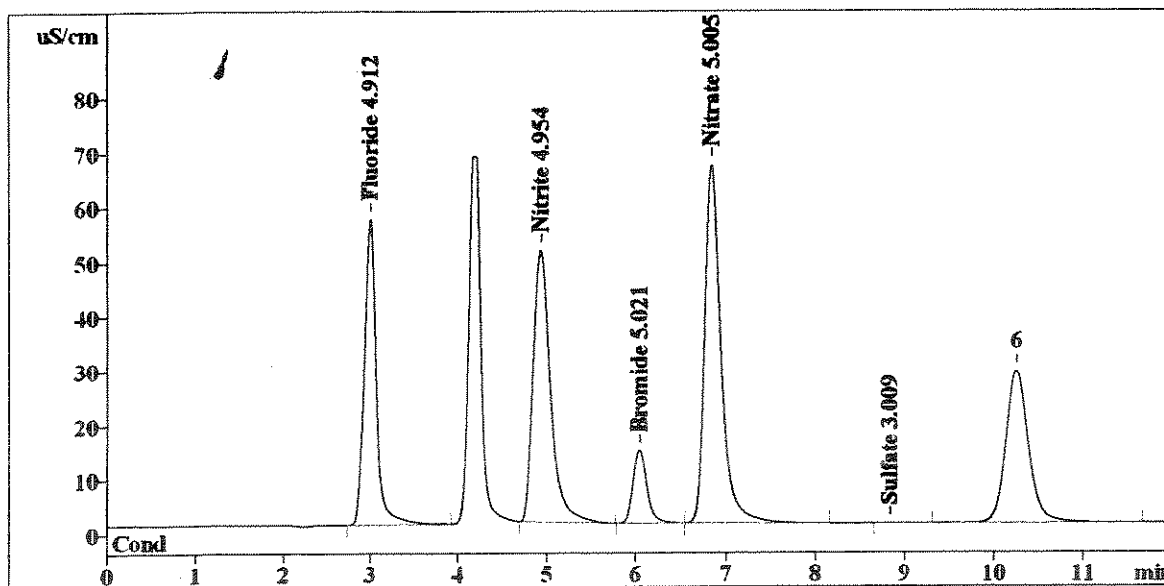
TC 6/10/08
SD 6/10/08

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
 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 12:27:13



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 RT

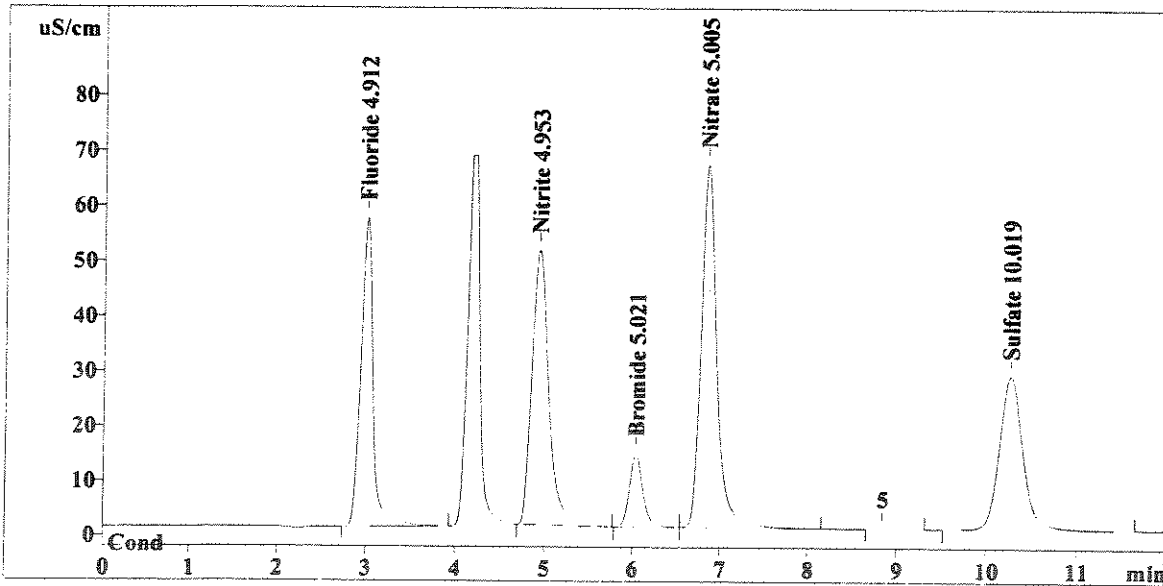
Realizes Needs reprocess for SO₄ retention time

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

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	

Reprocessed

OK
OK
↓

Do Not Report above 8.0 ppm

SD 6/12/08

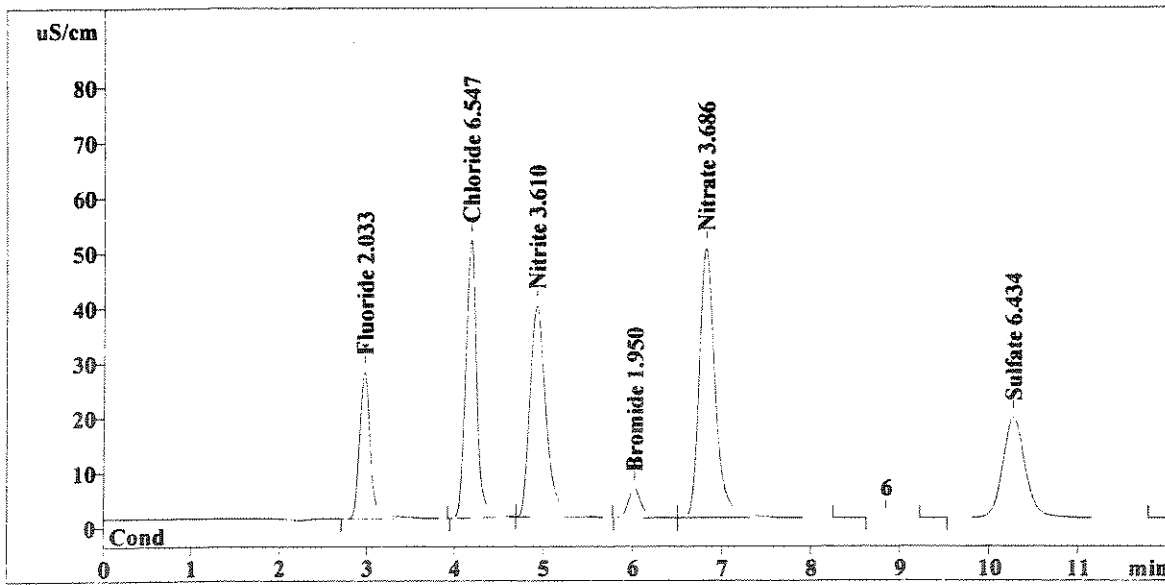
Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

Method 300.0/9056

Report date: 6/10/2008 15:06:55
 Printed by: User
 Ident: ICV
 Analysis from: 6/10/2008 13:52:24
 File: s6101352.chw
 Modified!
 Method: 06-10-08CAL.mtw
 Run operator: User
 Analysis number: 36792
 SAMPLE:
 Vial number: 10
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 14:04:36

Last save: 6/10/2008 13:48:56



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 SDG/12/08

Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14609

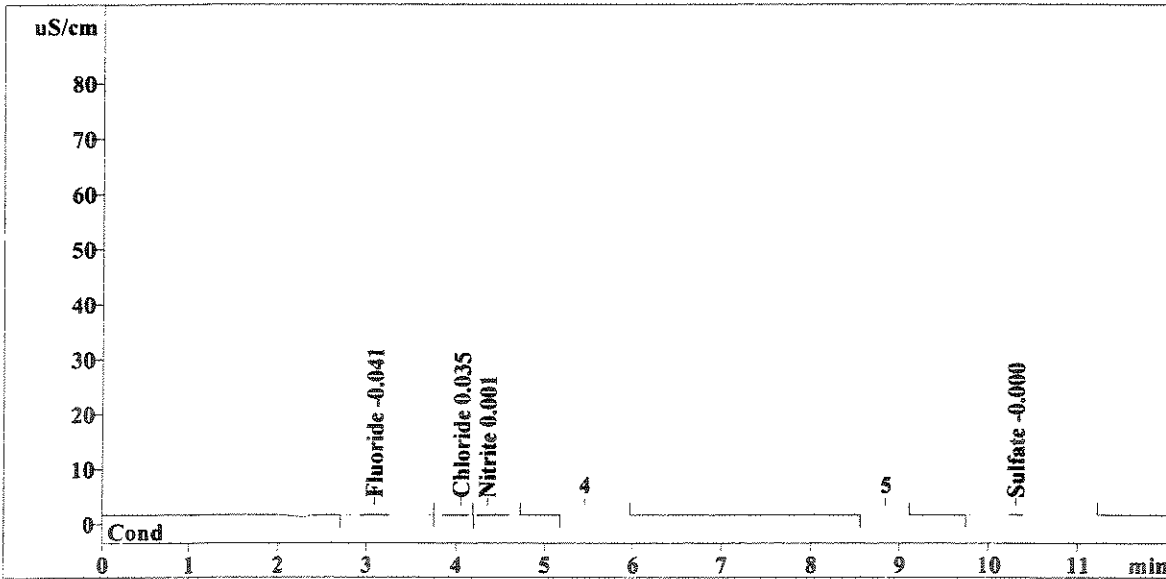
Method 300.0/9056

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
 Run operator: User
 Analysis number: 36793
 SAMPLE:
 Vial number: 11
 Volume: 1.0 µL
 Dilution: 1.00
 Amount: 1.0000

Last save: 6/10/2008 13:48:56



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
 METROHM LTD

OK SD 6/10/08

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:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
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	WC850NF	1000	10	200	50	TC	6/10/08	A	12/10/08	WC1200SD A
Cl	WC850CLC	1000	20		100			B		
NO2	WC1200NF	1000	10		50			C		
Br	WC850CLD	1000	10		50			D		
NO3	WC1200NF	1000	10		50			E		
OPO4	---	1000	10		50			F		
SO4	WC1200NF	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.							Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID	
				F	Cl	NO2	Br	NO3	OPO4	SO4						
9		10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	5.0	10.0	TC	6/10/08	H	6/17/08	WC1200SD H
8		8.0		4.0	8.0	4.0	4.0	4.0	4.0	4.0	8.0			I		
7		2.050	205.0	2.5	5.0	2.5	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	1.0	2.0			K		
5		1.0		0.5	1.0	0.50	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	0.25	0.50			M		
3		0.2		0.10	0.20	0.10	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	0.05	0.10			O		
1		0.0		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 100mL 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	ACC121050A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	ACC121050A
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	WC8557C	1000	4.0	1000	4.0	CMW	3/25/08	A	9/25/08	WC720134A
Cl	WC85106D	650	20.0		13.0	TC	5/5/08	B	9/25/08	WC720134B
NO2	WC72007F	180	40.0		7.2			C		
Br	WC85037D	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	AH	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				

09/10/2008

Run #: 163797
 Analyte: BROMIDE 9056
 Printed: 07/11/08 11:42

BROMIDE BY ION CHROMATOGRAPHY

44538
 44650

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED		DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT						ANALYZED		
ESMP	R2844538	✓ 1109708	WATER	1.00	U	10.0	0.100			07/10/08		ASPB
CHK5		✓ 1116771	WATER	2.08		1.0	0.100	104.0		07/10/08		
BLK4		✓ 1116772	WATER	0.100	U	1.0	0.100			07/10/08		
SPKB		✓ 1116773	WATER	1.07		1.0	0.100	107.3		07/10/08		
SPKB		✓ 1116774	WATER	0.976		1.0	0.100	97.6		07/11/08		
ESMP	R2844538	✓ 1110532	WATER	1.00	U	10.0	0.100			07/10/08		ASPB
ESMP	R2844538	✓ 1111264	WATER	1.41		10.0	0.100			07/10/08	RUN	ASPB
ESMP	R2844538	✓ 1111265	WATER	1.00	U	10.0	0.100			07/10/08	RUN	ASPB
ESMP	R2844538	✓ 1111266	WATER	1.88		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844538	✓ 1111267	WATER	0.769		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844538	✓ 1111763	WATER	1.12		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844538	✓ 1111764	WATER	1.96		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844538	✓ 1111765	WATER	1.00	U	10.0	0.100			07/11/08	RUN	ASPB
LDUP		✓ 1116775	WATER	1.00	U	10.0	0.100			07/11/08		
SPK1		✓ 1116776	WATER	9.91		10.0	0.100	99.1		07/11/08		
ESMP	R2844650	✓ 1112065	WATER	2.27		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112066	WATER	1.07		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112067	WATER	1.00	U	10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112486	WATER	1.00	U	10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112487	WATER	1.00	U	10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112488	WATER	0.788		10.0	0.100			07/11/08	RUN	ASPB
ESMP	R2844650	✓ 1112489	WATER	1.00	U	10.0	0.100			07/11/08	RUN	ASPB
LDUP		✓ 1116779	WATER	1.00	U	10.0	0.100			07/11/08		
SPK1		✓ 1116780	WATER	9.59		10.0	0.100	95.9		07/11/08		
ESMP	R2844650	✓ 1112809	WATER	1.00	U	10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1112810	WATER	1.00	U	10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1112811	WATER	1.00	U	10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1112812	WATER	1.00	U	10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1113426	WATER	1.15		10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1113427	WATER	1.00	U	10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1113428	WATER	0.728		10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1113429	WATER	0.800		10.0	0.100			07/11/08		ASPB
ESMP	R2844650	✓ 1113430	WATER	1.03		10.0	0.100			07/11/08		ASPB
LDUP		✓ 1116781	WATER	0.972		10.0	0.100		5.79	07/11/08		
SPK1		✓ 1116782	WATER	11.2		10.0	0.100	101.2		07/11/08		

Records printed: 35

Reviewed & Approved
 By: S. J. [Signature]
 Date: 7/14/08

Schedule File: J:\ACQU\DATA\1\SCHEDULE\1\c#41071008.sch

07-10-08

Data Manually Entered

Analyst: C Woods
Pipets: mine
Lucy

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
1	STANDARD 1	Calibration St	1	20080710.met	710_001.dxd	1	
2	STANDARD 2	Calibration St	2	20080710.met	710_002.dxd	1	
3	STANDARD 3	Calibration St	3	20080710.met	710_003.dxd	1	
4	STANDARD 4	Calibration St	4	20080710.met	710_004.dxd	1	
5	STANDARD 5	Calibration St	5	20080710.met	710_005.dxd	1	
6	STANDARD 6	Calibration St	6	20080710.met	710_006.dxd	1	
7	STANDARD 7	Calibration St	7	20080710.met	710_007.dxd	1	
8	STANDARD 8	Calibration St	8	20080710.met	710_008.dxd	1	
9	STANDARD 9	Calibration St	9	20080710.met	710_009.dxd	1	
10	ICV	Sample		20080710.met	710_010.dxd	1	
11	ICB	Sample		20080710.met	710_011.dxd	1	
12	LCS	Sample		20080710.met	710_012.dxd	1	
13	1109708	Sample		20080710.met	710_013.dxd	10	B
14	1110532	Sample		20080710.met	710_014.dxd	10	B
15	1110981	Sample		20080710.met	710_015.dxd	10	B
16	1111264	Sample		20080710.met	710_016.dxd	10	B
17	1111265	Sample		20080710.met	710_017.dxd	10	B
18	1111266	Sample		20080710.met	710_018.dxd	10	B
19	1111267	Sample		20080710.met	710_019.dxd	10	B
20	1111763	Sample		20080710.met	710_020.dxd	10	B
21	1111764	Sample		20080710.met	710_021.dxd	10	B
22	1111765	Sample		20080710.met	710_022.dxd	10	B
23	1111765 DUP	Sample		20080710.met	710_023.dxd	10	B
24	1111765 SPK	Sample		20080710.met	710_024.dxd	10	B
25	CCV	Sample		20080710.met	710_025.dxd	1	
26	CCB	Sample		20080710.met	710_026.dxd	1	
27	1112065	Sample		20080710.met	710_027.dxd	10	B
28	1112066	Sample		20080710.met	710_028.dxd	10	B
29	1112067	Sample		20080710.met	710_029.dxd	10	B
30	MTD BLK 6/26/08	Sample		20080710.met	710_030.dxd	1	
31	1112361	Sample		20080710.met	710_031.dxd	10	EXTRACTION: B
32	1112362	Sample		20080710.met	710_032.dxd	10	EXTRACTION: B
33	1112362 DUP	Sample		20080710.met	710_033.dxd	10	EXTRACTION: B
34	1112362 SPK	Sample		20080710.met	710_034.dxd	10	EXTRACTION: B
35	1112364	Sample		20080710.met	710_035.dxd	10	EXTRACTION: B
36	1112486	Sample		20080710.met	710_036.dxd	10	B
37	1112487	Sample		20080710.met	710_037.dxd	10	B
38	1112488	Sample		20080710.met	710_038.dxd	10	B
39	1112489	Sample		20080710.met	710_039.dxd	10	B
40	1112489 DUP	Sample		20080710.met	710_040.dxd	10	B
41	1112489 SPK	Sample		20080710.met	710_041.dxd	10	B
42	CCV	Sample		20080710.met	710_042.dxd	1	
43	CCB	Sample		20080710.met	710_043.dxd	1	
44	LCS	Sample		20080710.met	710_044.dxd	1	
45	1112809	Sample		20080710.met	710_045.dxd	10	B

01007

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
46	1112810	Sample		20080710.met	710_046.dxd	10	B
47	1112811	Sample		20080710.met	710_047.dxd	10	B
48	1112812	Sample		20080710.met	710_048.dxd	10	B
49	1113426	Sample		20080710.met	710_049.dxd	10	B
50	1113427	Sample		20080710.met	710_050.dxd	10	B
51	1113428	Sample		20080710.met	710_051.dxd	10	B
52	1113429	Sample		20080710.met	710_052.dxd	10	B
53	1113430	Sample		20080710.met	710_053.dxd	10	B
54	1113430 DUP	Sample		20080710.met	710_054.dxd	10	B
55	1113430 SPK	Sample		20080710.met	710_055.dxd	10	B
56	CCV	Sample		20080710.met	710_056.dxd	1	
57	CCB	Sample		20080710.met	710_057.dxd	1	
58							

Default Method Path: J:\ACQUDATA\IC\METHOD.AC\IC#4
 Default Data Path: J:\ACQUDATA\IC\DATA\IC#4\071008
 Comment:

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Sample Name : ICV
Data File Name : ...\\710_010.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/10/08 18:33:56

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

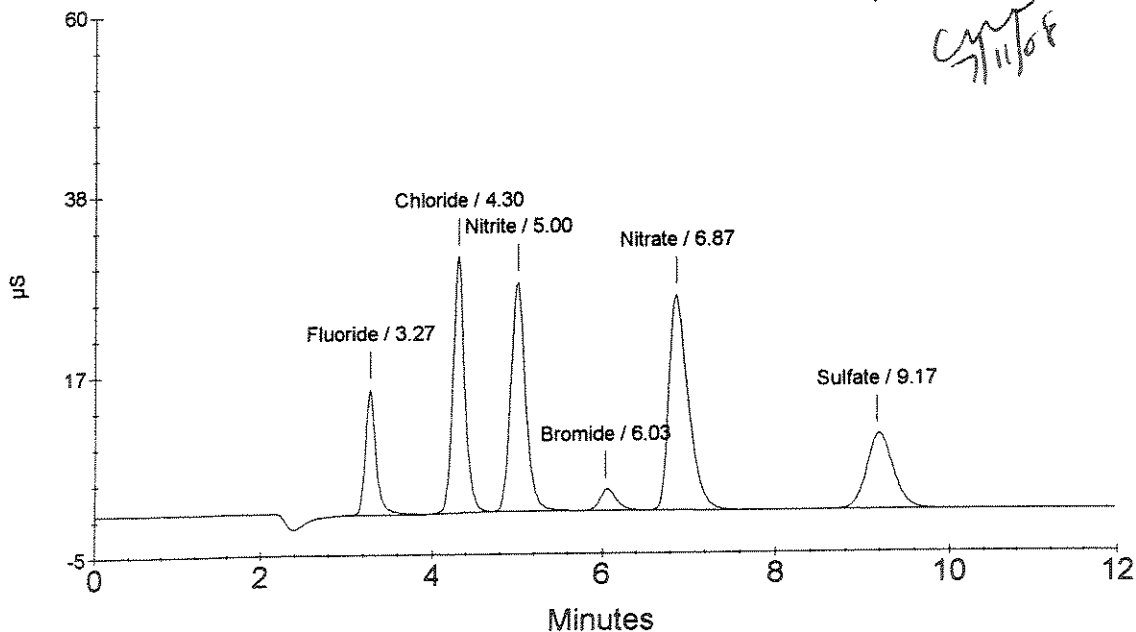
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	1.971	1282742
2	4.30	Chloride	6.370	2995721
3	5.00	Nitrite	3.659	3342989
4	6.03	Bromide	2.080	347083
5	6.87	Nitrate	3.653	4035788
6	9.17	Sulfate	7.679	1929688

OK
↓
CMY 7/11/08

*Curve not valid for SO₄²⁻ analysis.
CMY 7/11/08*



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Sample Name : ICB
Data File Name : ...710_011.DXD
Method File Name : ...20080710.met
Date Time Collected : 7/10/08 18:48:13

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

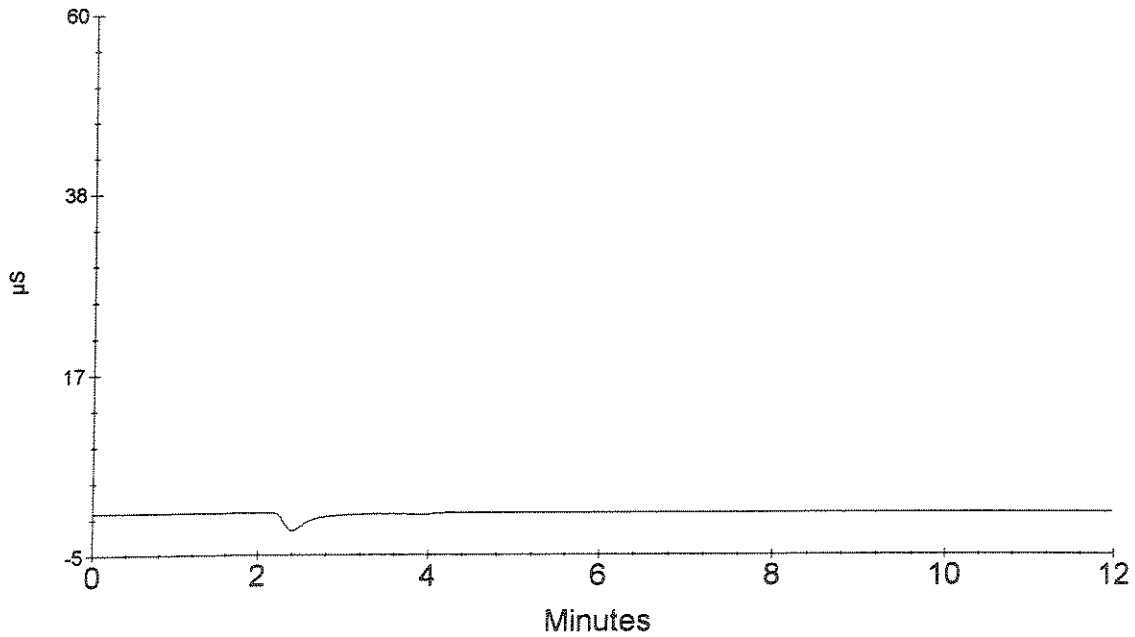
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK
[Signature]
7/11/08

ICB



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Sample Name : LCS
Data File Name : ...710_012.DXD
Method File Name : ...20080710.met
Date Time Collected : 7/10/08 19:02:33

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

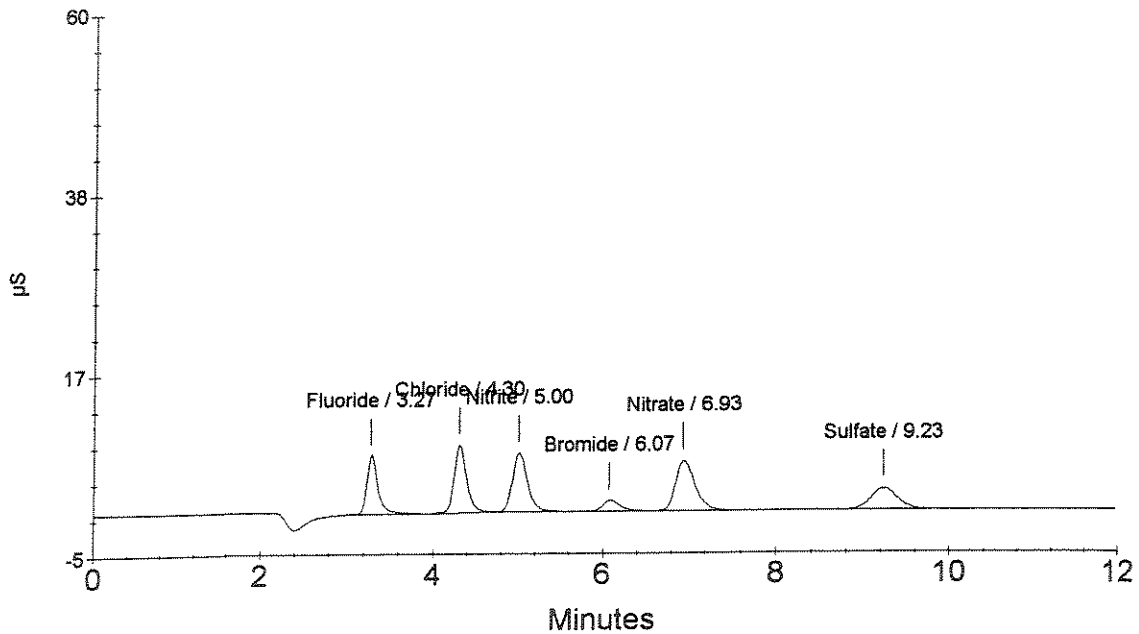
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.966	631941
2	4.30	Chloride	1.791	832583
3	5.00	Nitrite	0.954	856913
4	6.07	Bromide	1.073	182229
5	6.93	Nitrate	0.914	940921
6	9.23	Sulfate	2.152	554582

OK
↓
7/11/08

LCS



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Sample Name : 1109708
Data File Name : ...\\710_013.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/10/08 22:51:56

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

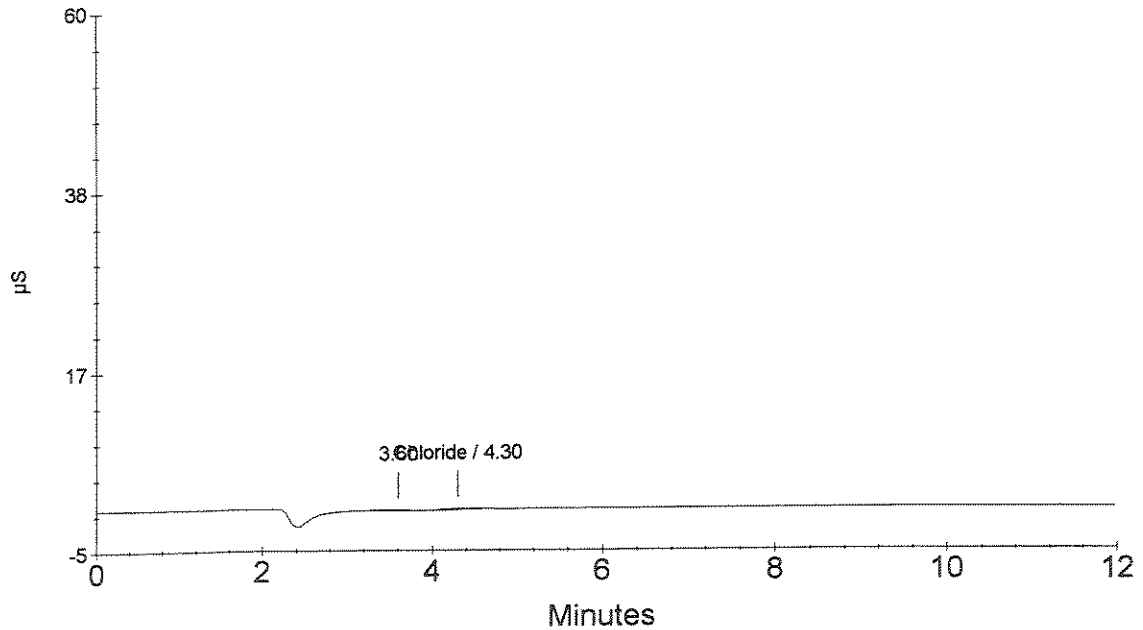
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.60		0.000	41174
2	4.30	Chloride	0.973	32227
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
[Signature]
7/11/08

1109708



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Sample Name : 1110532
Data File Name : ... \710_014.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/10/08 23:06:15

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

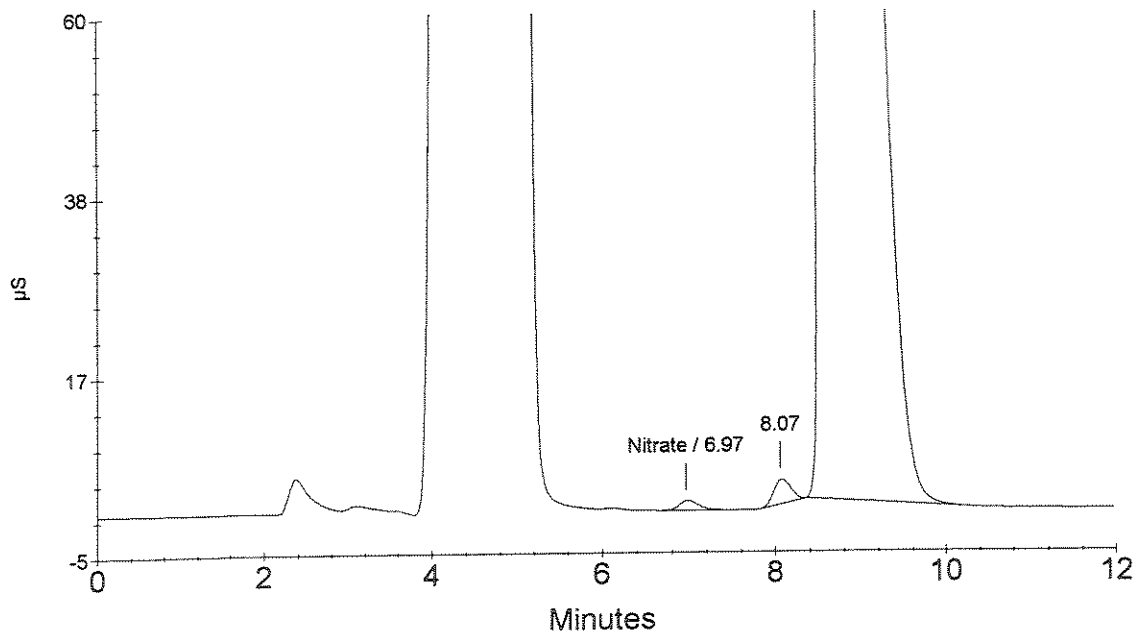
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.50	Chloride	947.027	44729037
1	4.50	Chloride	947.027	44729037
2	5.07	Nitrite	1743.572	160195824
		Bromide		
3	6.97	Nitrate	2.323	170928
5	8.70	Sulfate	5272.883	131194446

Handwritten notes:
~~7/10/08~~
~~Reprocess~~
7/10/08

1110532



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Sample Name : 1110981
 Data File Name : ...\\710_015.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/10/08 23:20:34

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

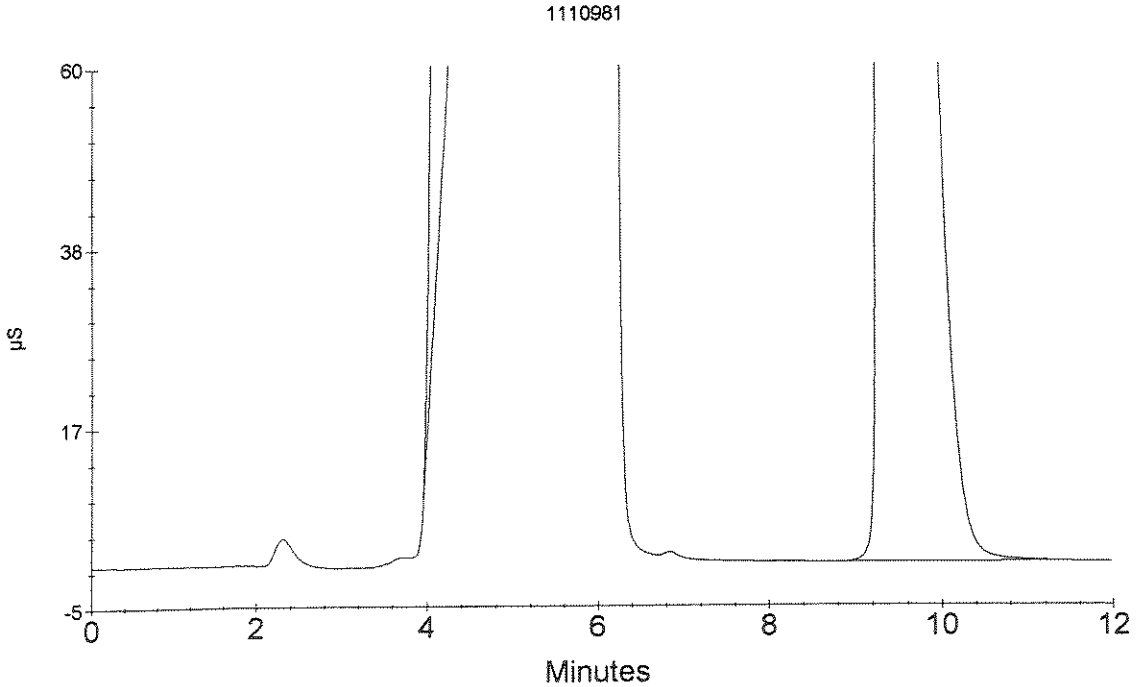
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.70	Chloride	11655.622	550662339
1	4.70	Chloride Nitrite	11655.622	550662339
2	6.13	Bromide	3238.347	53036410
3	9.43	Nitrate Sulfate	4215.410	104887354

*rpt @ 1/2 + 1/4
 7/11/08*



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Sample Name : 1111264
Data File Name : ... \710_016.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/10/08 23:34:54

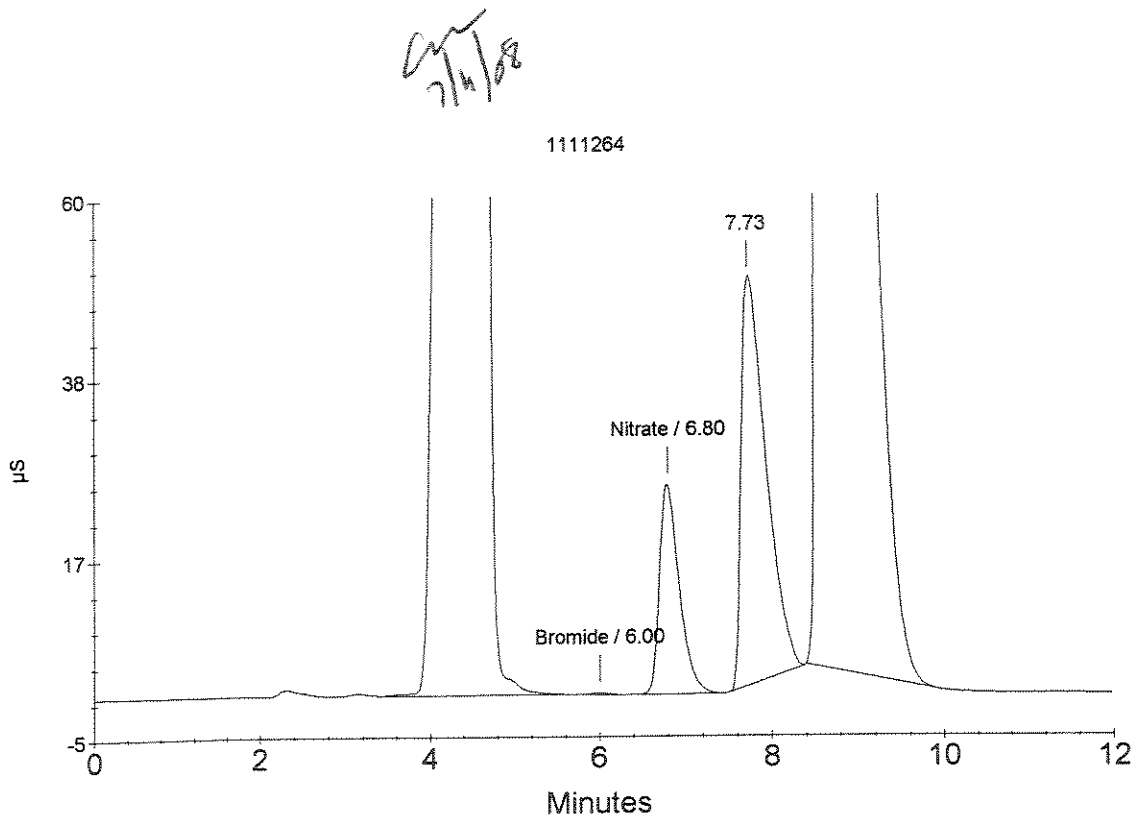
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.60	Chloride	3317.390	156718092
1	4.60	Chloride	3317.390	156718092
		Nitrite		
2	6.00	Bromide <i>OK</i>	1.406	29497
3	6.80	Nitrate	36.227	4001083
5	8.70	Sulfate	4256.532	105910366



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Sample Name : 1111265
Data File Name : ...\\710_017.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/10/08 23:49:14

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

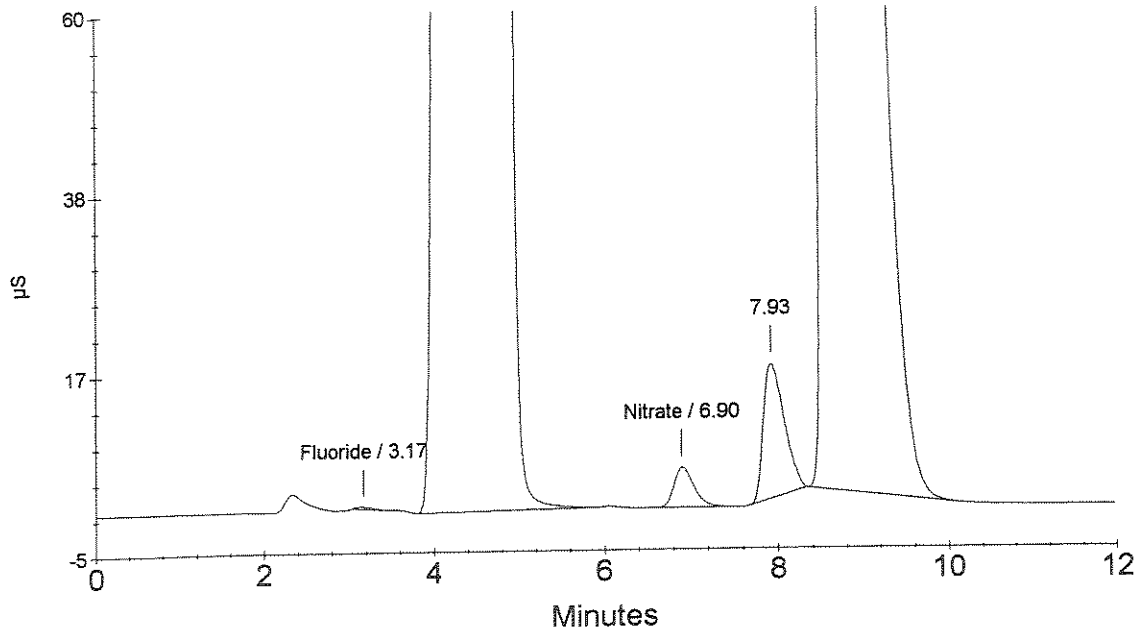
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride Chloride	0.420	33143
2	4.83	Nitrite Bromide	3192.951	293377979
3	6.90	Nitrate	7.659	773719
5	8.70	Sulfate	5022.134	124956487

OK
CW 7/11/08
~~*Reprocess*~~
CW 7/11/08



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Sample Name : 1111266
Data File Name : ...\\710_018.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 00:03:34

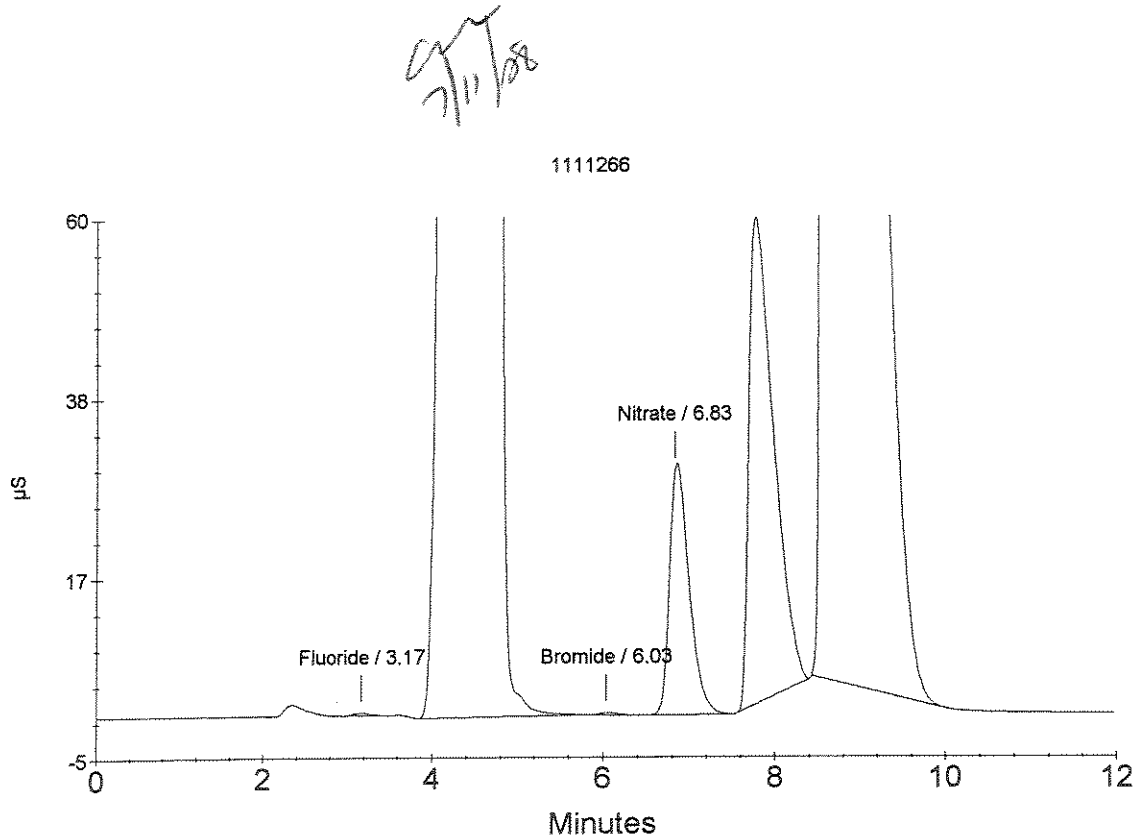
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.391	31258
2	4.70	Chloride	4107.281	194036930
3	6.03	Nitrite Bromide <i>OK</i>	1.880	37258
4	6.83	Nitrate	43.239	4793223
6	8.70	Sulfate	5313.973	132216656



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Sample Name : 1111267
Data File Name : ...\\710_019.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 00:17:54

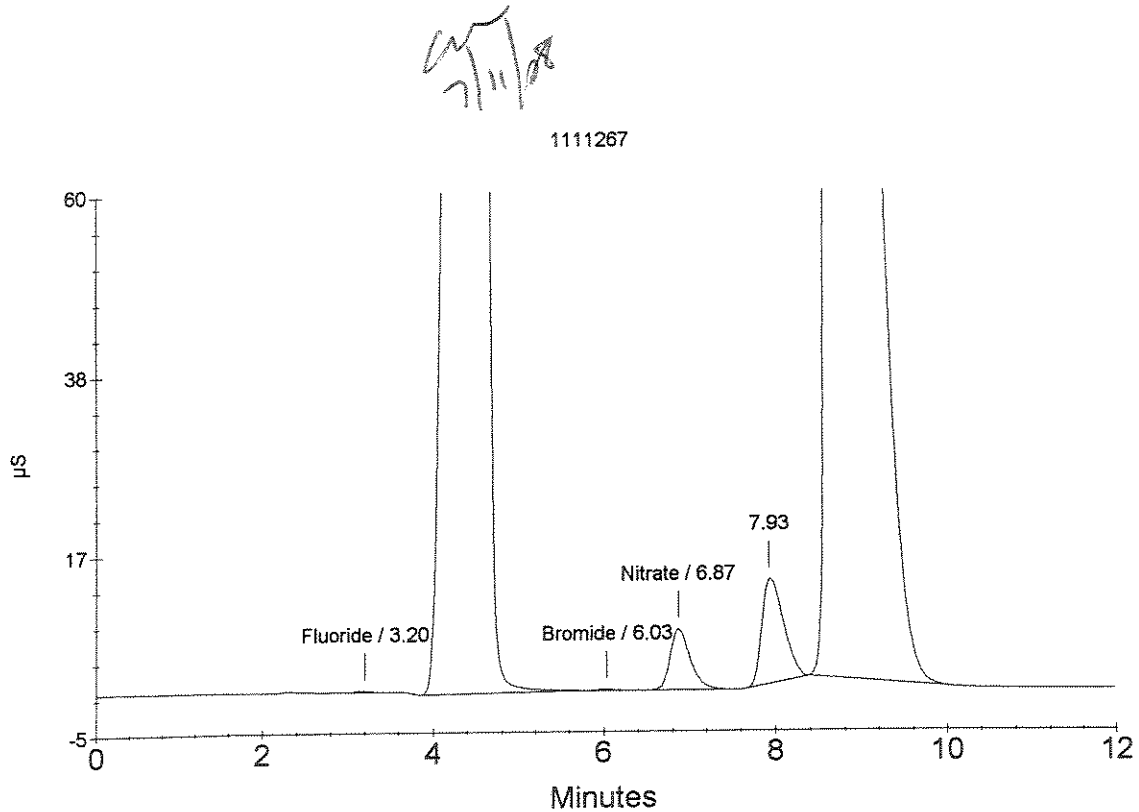
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.221	20263
2	4.53	Chloride	2474.372	116889241
3	6.03	Nitrite Bromide <i>OK</i>	0.769	19066
4	6.87	Nitrate	11.343	1189954
6	8.73	Sulfate	3732.277	92868301



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Sample Name : 1111763
Data File Name : ...\\710_020.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 00:32:14

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

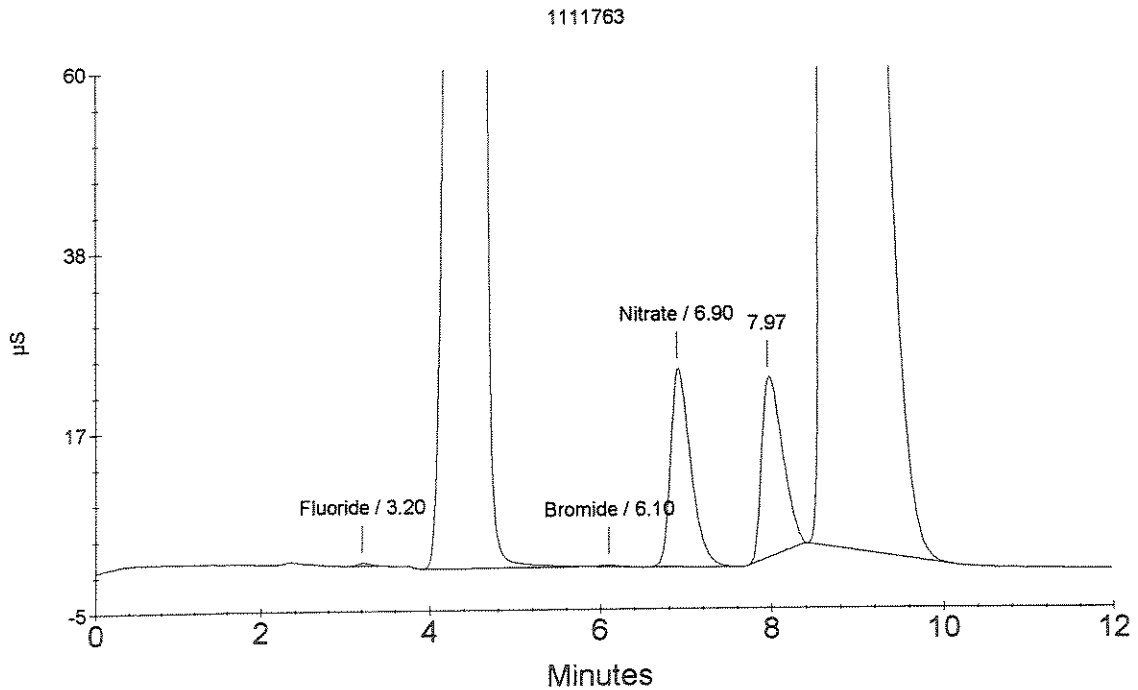
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.556	41930
2	4.57	Chloride	1999.480	94452715
3	6.10	Nitrite <i>OK</i>	1.116	24762
4	6.90	Nitrate	35.445	3912721
6	8.73	Sulfate	5108.664	127109125

Handwritten signature
7/11/08



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Sample Name : 1111764
Data File Name : ...\\710_021.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 00:46:32

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

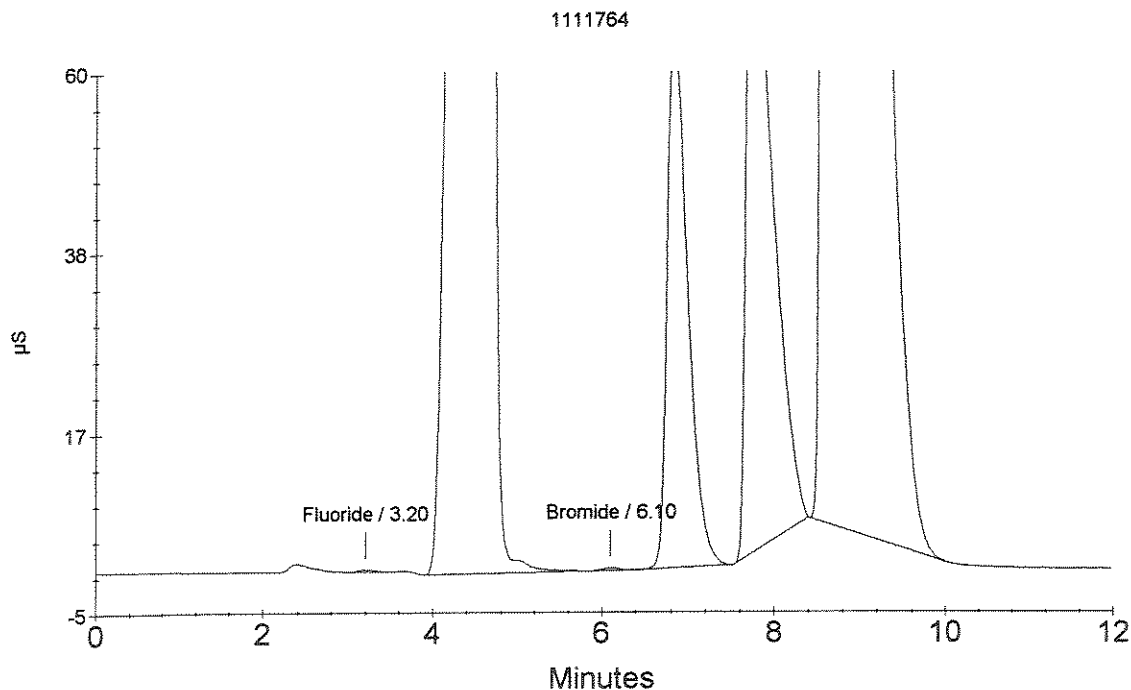
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.356	28992
2	4.63	Chloride	2624.910	124001514
		Nitrite		
3	6.10	Bromide <i>OK</i>	1.964	38641
4	6.83	Nitrate	95.534	10700998
6	8.70	Sulfate	5665.119	140952217

OK
7/11/08



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Sample Name : 1111765
 Data File Name : ... \710_022.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 01:00:53

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

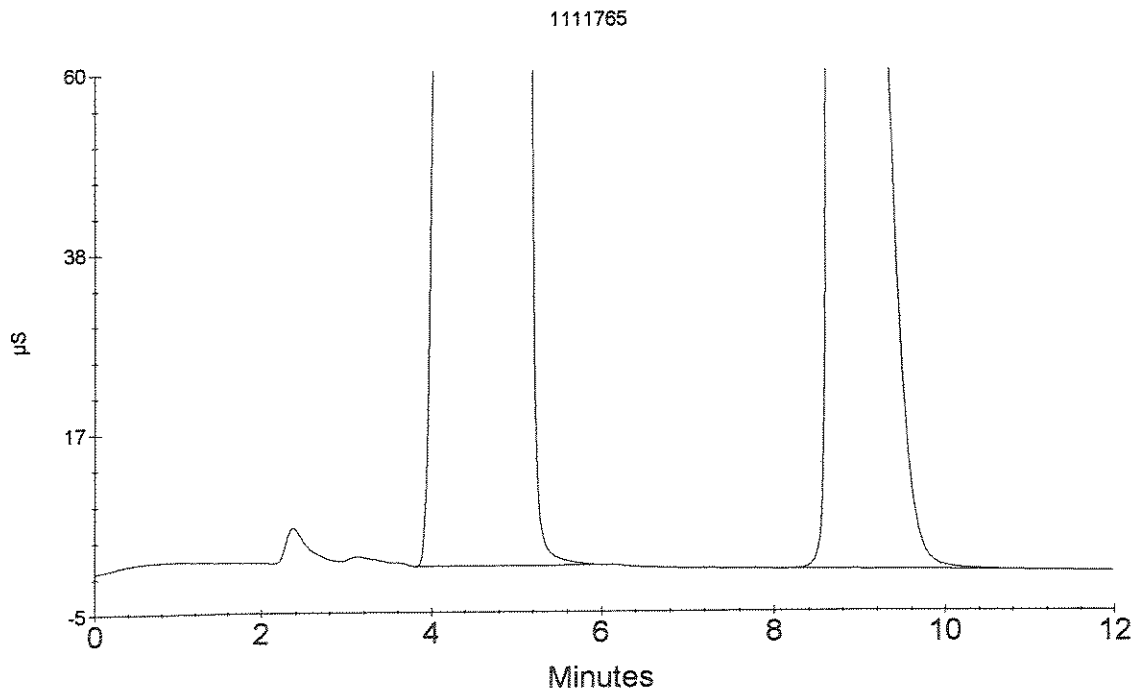
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	5.03	Nitrite Chloride	4736.262	435191481
1	5.03	Nitrite Bromide	4736.262	435191481
		Nitrate		
2	8.80	Sulfate	4158.473	103470924

OK

CWT
7/11/08



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Sample Name : 1111765 DUP
 Data File Name : ...\\710_023.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 01:15:11

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

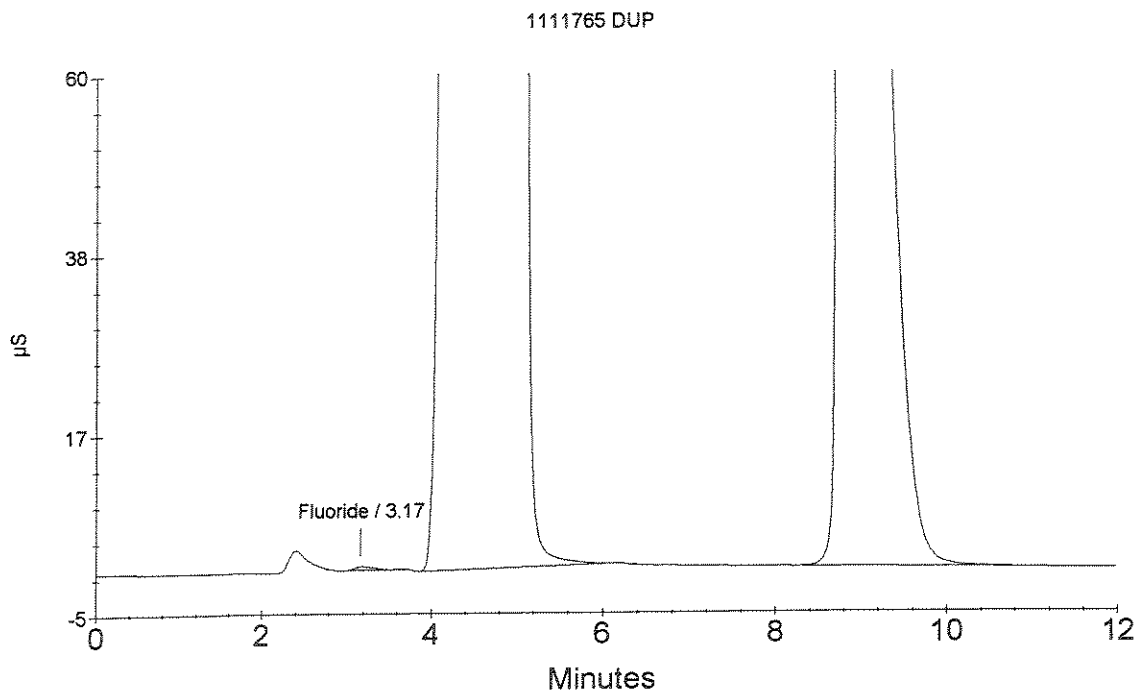
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.879	62836
2	5.00	Chloride Nitrite Bromide	3880.151	356524205
3	8.90	Nitrate Sulfate	3316.747	82531047

OK
7/11/08



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Sample Name : 1111765 SPK
Data File Name : ...\\710_024.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 01:29:31

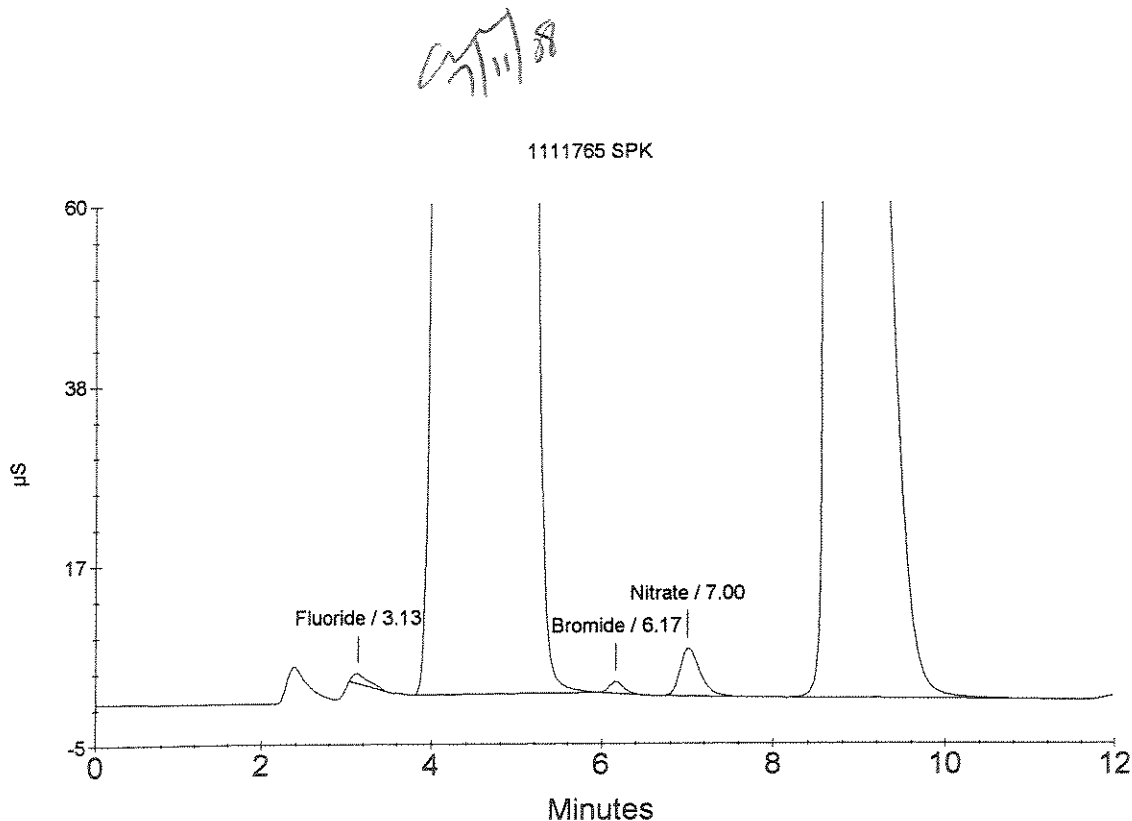
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.13	Fluoride Chloride	2.459	165215
2	5.10	Nitrite	5319.101	488747976
3	6.17	Bromide <i>OK</i>	9.906	168700
4	7.00	Nitrate	8.984	923389
5	8.77	Sulfate	4689.313	116676791



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Sample Name : CCV
Data File Name : ...710_025.DXD
Method File Name : ...20080710.met
Date Time Collected : 7/11/08 01:43:51

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

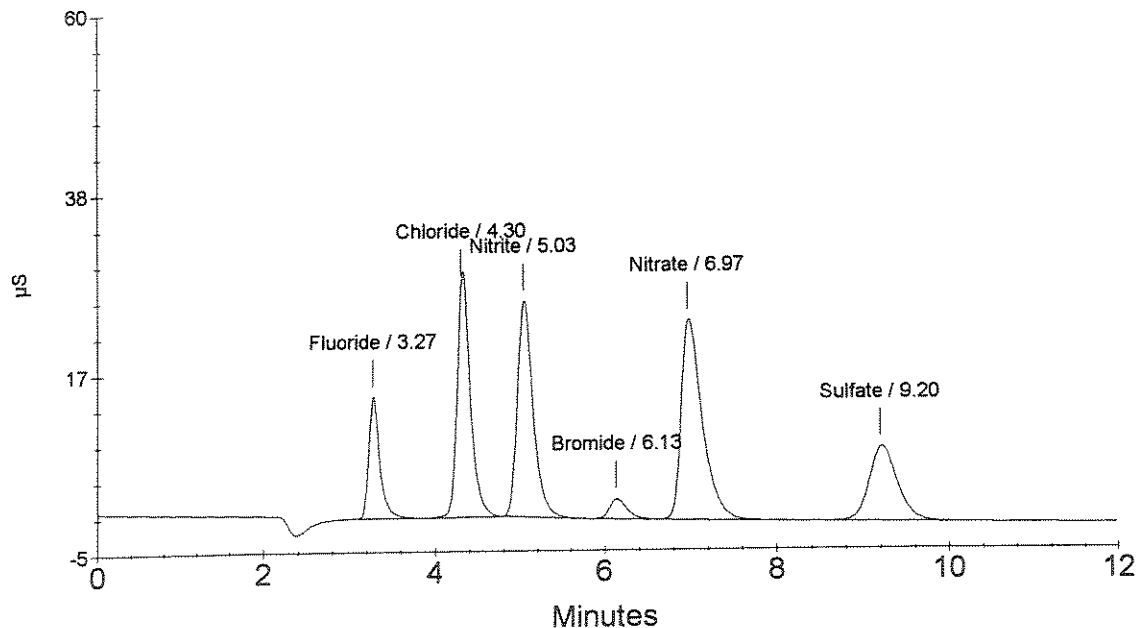
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	2.016	1311891
2	4.30	Chloride	6.665	3135372
3	5.03	Nitrite	3.699	3379864
4	6.13	Bromide <i>OK</i>	2.049	341988
5	6.97	Nitrate	3.733	4126062
6	9.20	Sulfate	8.088	2031249

CVT
7/11/08

CCV



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Sample Name : CCB
Data File Name : ...\\710_026.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 01:58:11

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

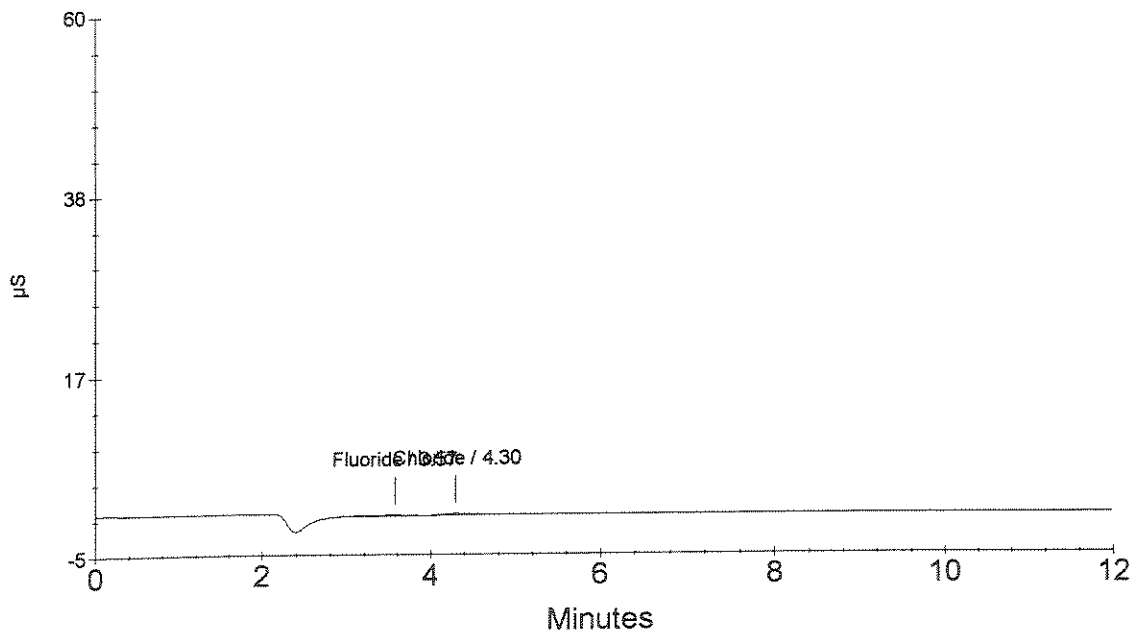
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.045	35051
2	4.30	Chloride	0.099	32987
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
CMY
7/11/08

CCB



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Sample Name : 1112065
Data File Name : ...\\710_027.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 02:12:30

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

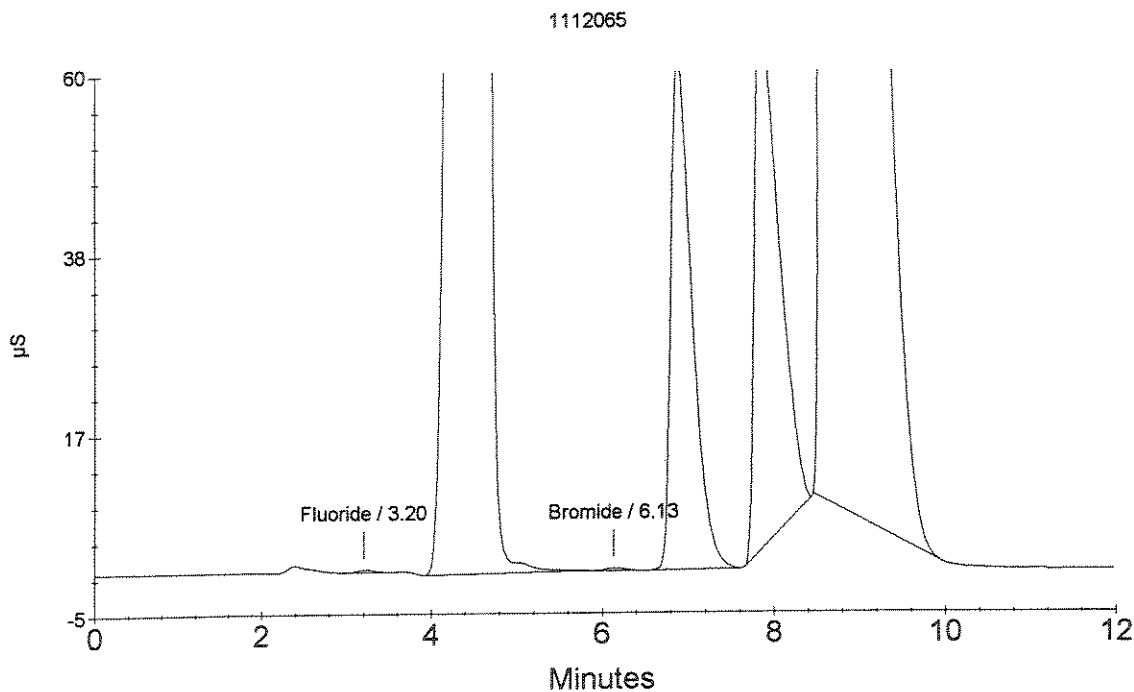
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.483	37237
2	4.60	Chloride	2346.419	110844039
		Nitrite		
3	6.13	Bromide <i>OK</i>	2.270	43657
4	6.90	Nitrate	92.715	10382564
6	8.73	Sulfate	5574.987	138709986

*CWT
7/11/08*



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112066
Data File Name : ...\\710_028.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 02:26:48

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

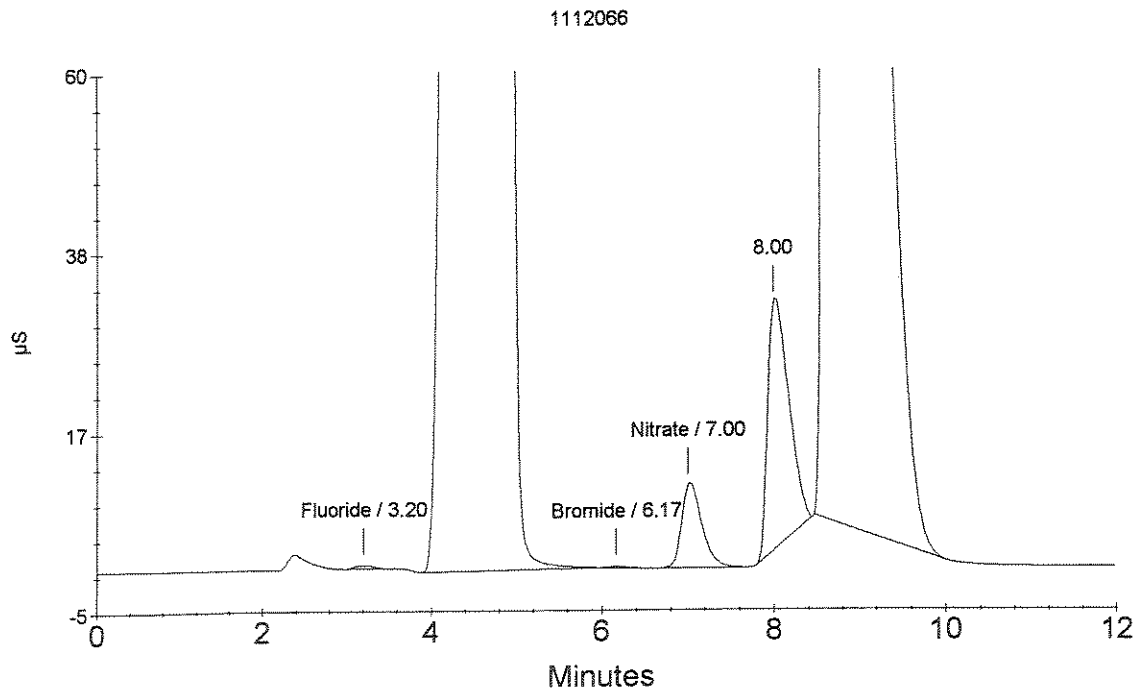
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride Chloride	0.847	60770
2	4.83	Nitrite	2755.089	253143214
3	6.17	Bromide <i>OK</i>	1.074	24068
4	7.00	Nitrate	15.464	1655457
6	8.73	Sulfate	5607.546	139519955

Handwritten signature
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112067
Data File Name : ...\\710_029.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 02:41:08

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

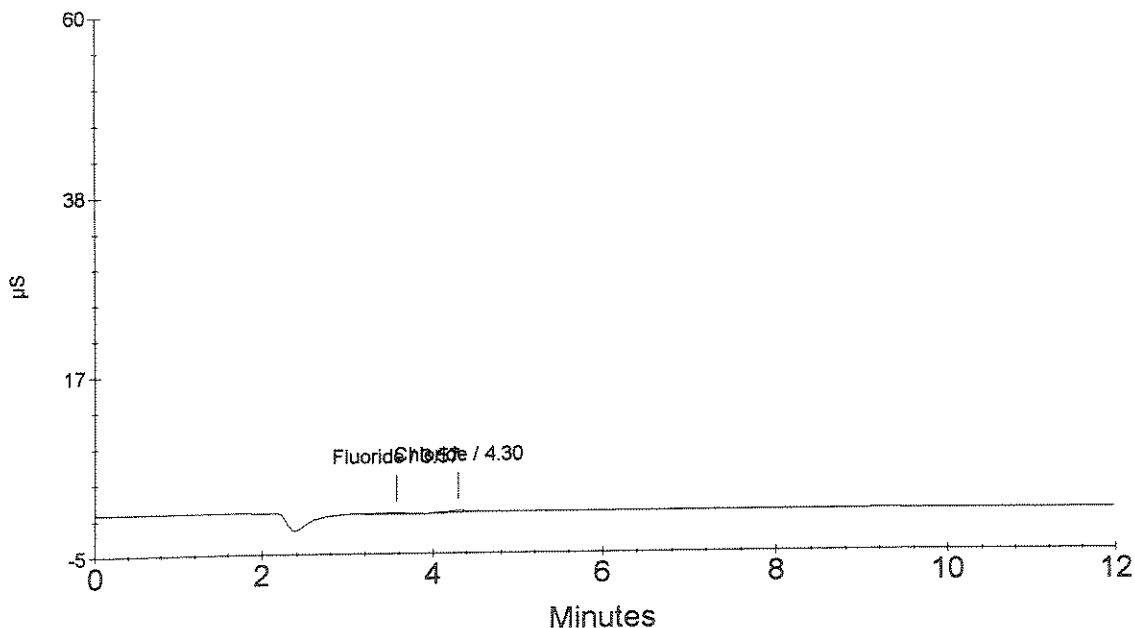
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.421	33166
2	4.30	Chloride Nitrite Bromide Nitrate Sulfate	1.124	39351

OK
LM
7/11/08

1112067



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MTD BLK 6/26/08
Data File Name : ...\\710_030.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 02:55:28

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

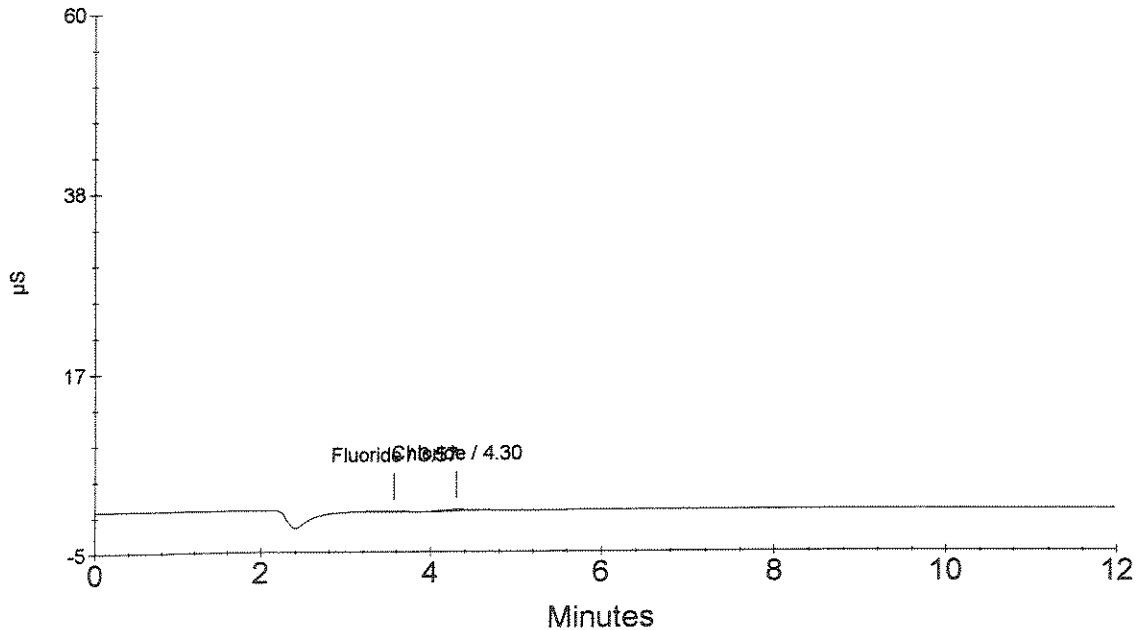
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.045	35118
2	4.30	Chloride	0.108	37166
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
CW
7/11/08

MTD BLK 6/26/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112361
Data File Name : ...710_031.DXD
Method File Name : ...20080710.met
Date Time Collected : 7/11/08 03:09:47

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

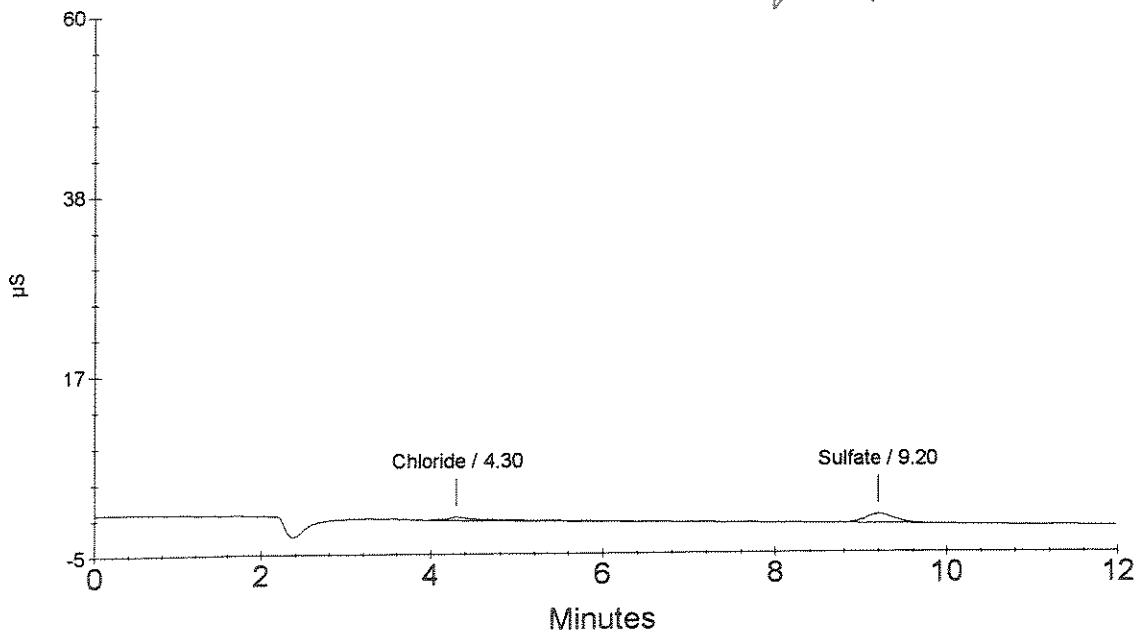
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.30	Chloride	3.605	156561
1	4.30	Chloride	3.605	156561
		Nitrite		
		Bromide		
		Nitrate		
2	9.20	Sulfate	9.157	247095

~~21~~

7/11/08

1112361

Rpt Str. 7/11/08
25g → 250mls



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1112362
 Data File Name : ...\\710_032.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 03:24:07

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: B

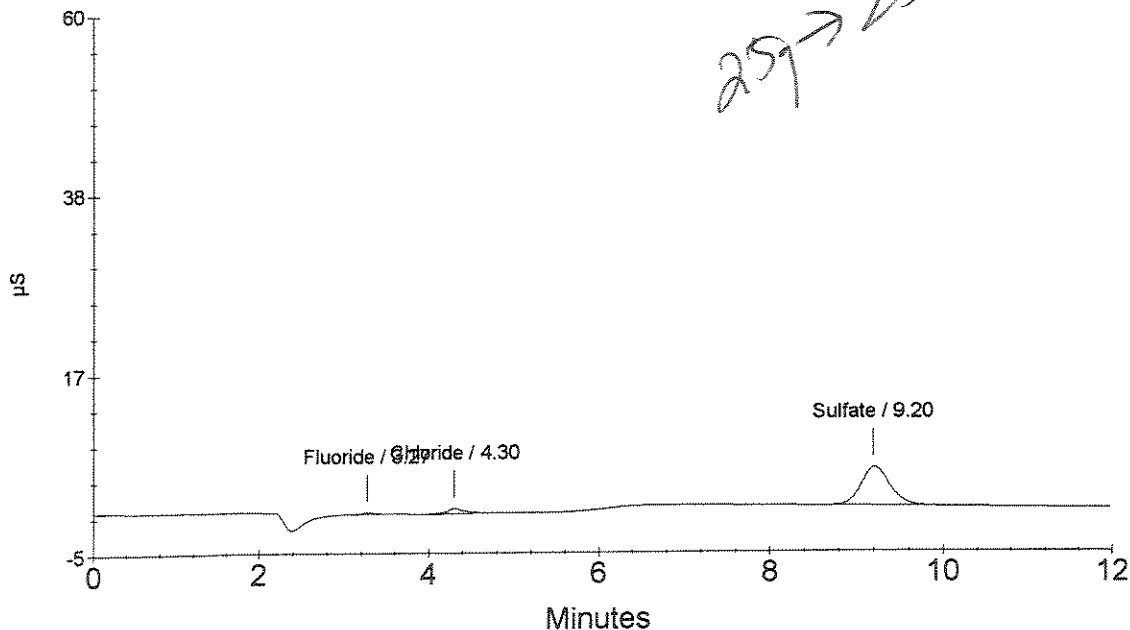
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.153	15809
2	4.30	Chloride Nitrite Bromide Nitrate	2.229	91524
3	9.20	Sulfate	41.877	1061070

7/11/08
 1112362

Rpt str.
 CWT
 7/11/08
 259 → 250 mL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112362 DUP
Data File Name : ...\\710_033.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 03:38:27

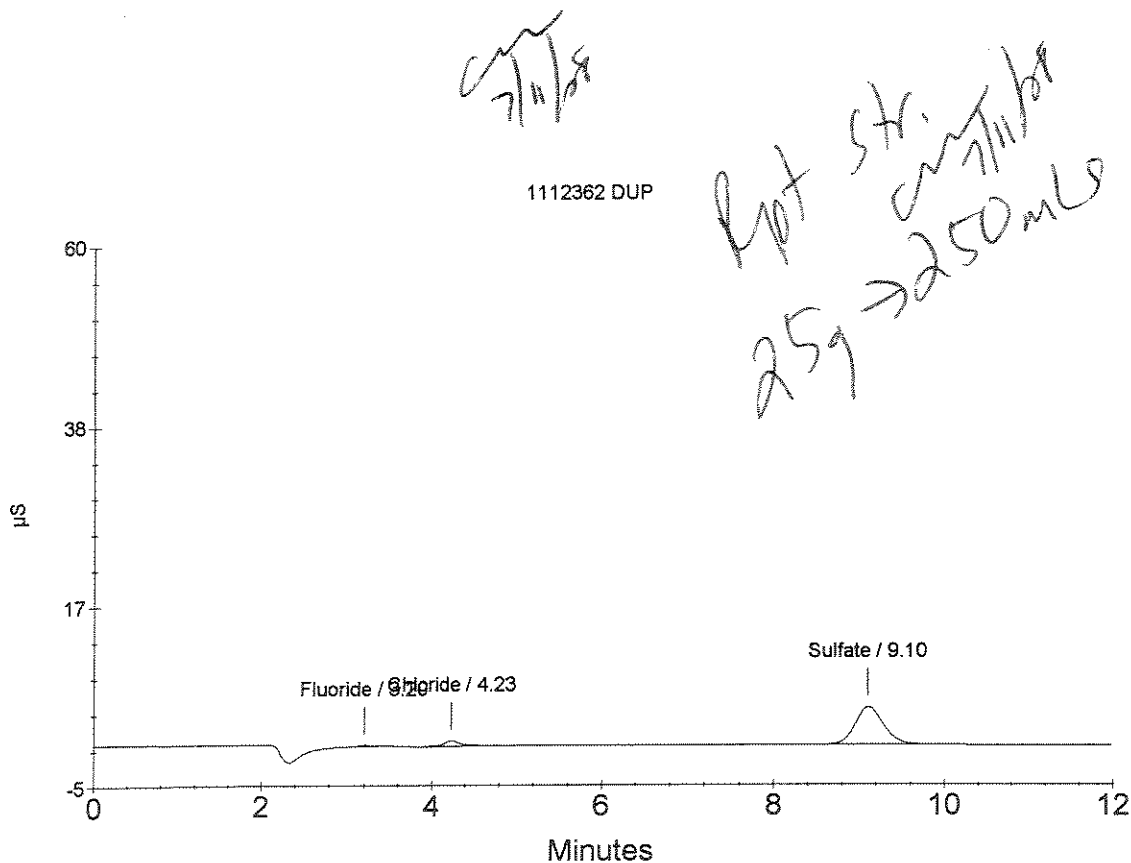
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.138	14871
2	4.23	Chloride Nitrite Bromide	2.260	93018
3	9.10	Nitrate Sulfate	40.603	1029391



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112362 SPK
Data File Name : ...\\710_034.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 03:52:46

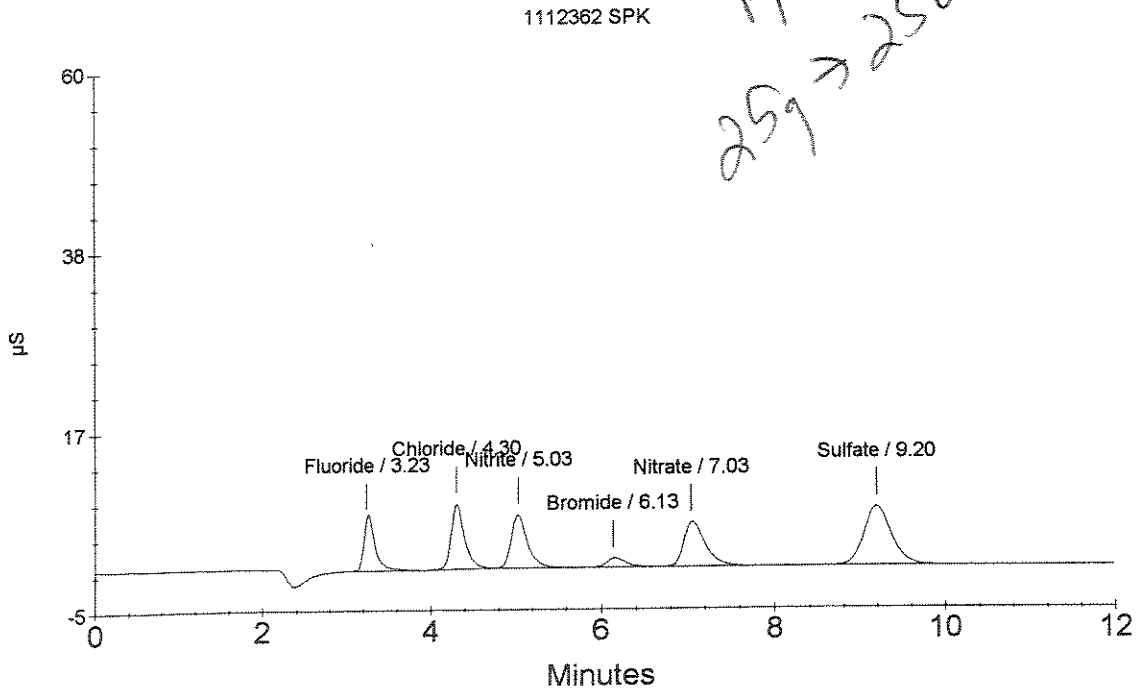
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	9.535	623539
2	4.30	Chloride	18.415	856243
3	5.03	Nitrite	9.240	829663
4	6.13	Bromide <i>ok</i>	9.352	159624
5	7.03	Nitrate	8.924	916623
6	9.20	Sulfate	63.611	1601757



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112364
Data File Name : ...\\710_035.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 04:07:05

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

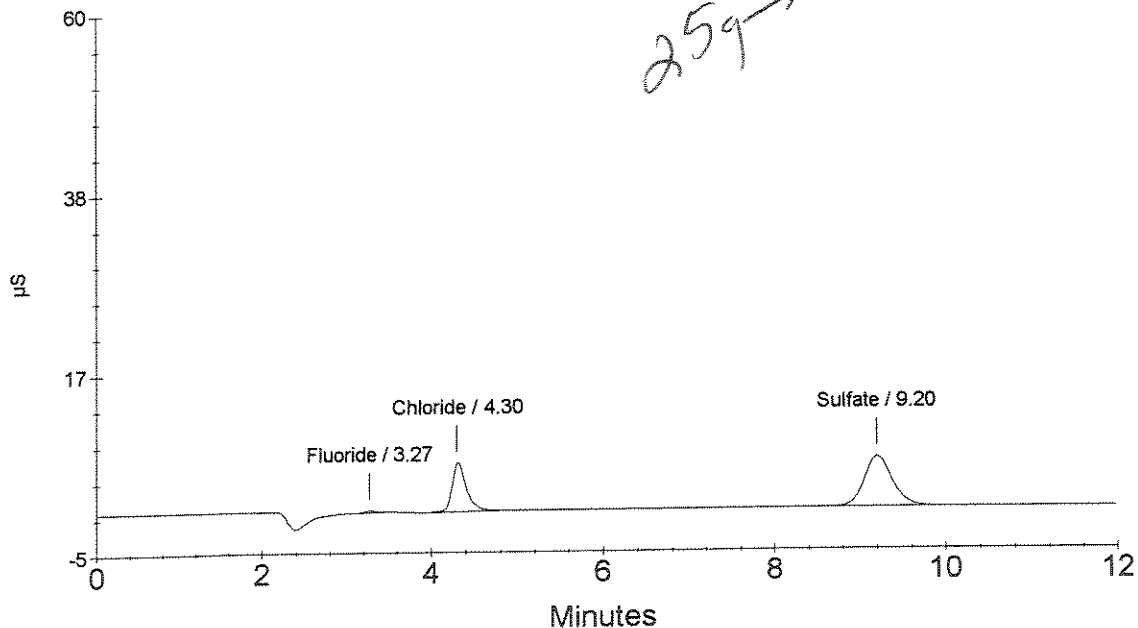
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.223	20342
2	4.30	Chloride Nitrite Bromide Nitrate	14.525	672485
3	9.20	Sulfate	53.813	1358016

Handwritten notes:
7/11/08
1112364
259 → 250 mL
Kpt str. 7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112486
Data File Name : ...\\710_036.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 04:21:24

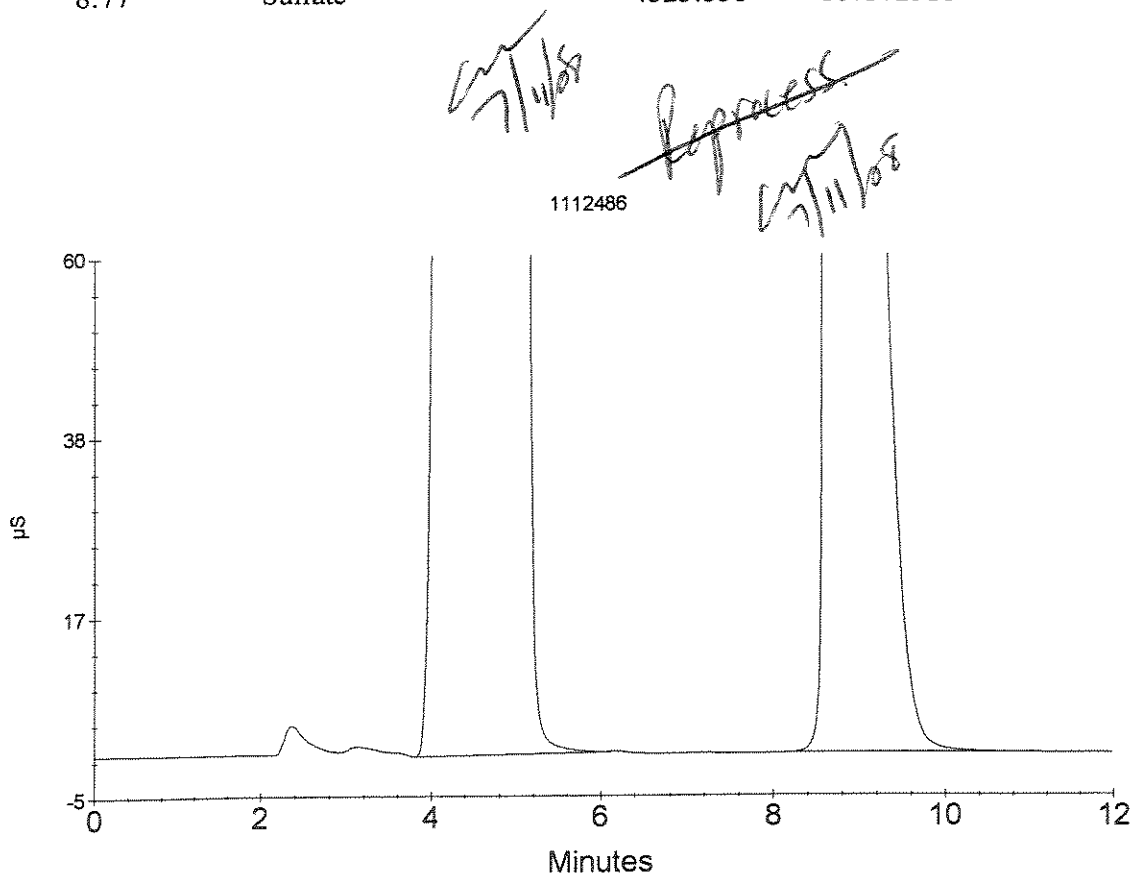
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	5.00	Nitrite Chloride	4551.199	418186192
1	5.00	Nitrite Bromide Nitrate	4551.199	418186192
2	8.77	Sulfate	4323.338	107572316



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112487
Data File Name : ...\\710_037.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 04:35:43

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

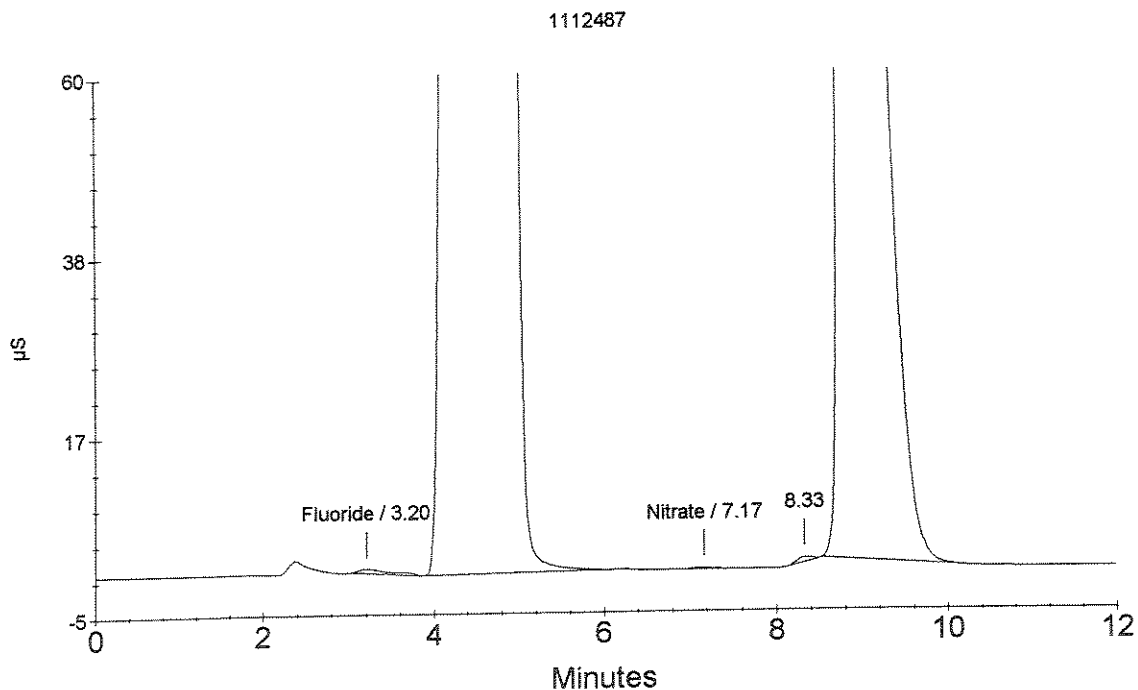
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride Chloride	2.120	143243
2	4.90	Nitrite Bromide	3012.956	276838377
3	7.17	Nitrate	1.049	27062
5	8.90	Sulfate	2845.208	70800427

OK
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112488
Data File Name : ...\\710_038.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 04:50:03

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

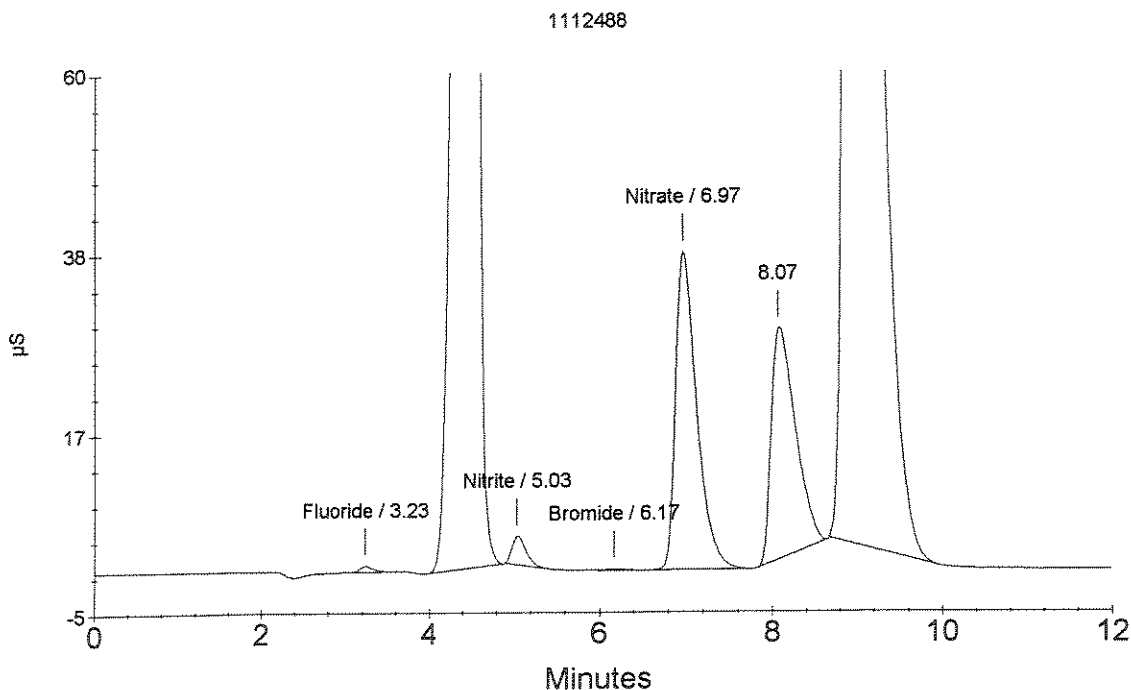
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	1.055	74252
2	4.50	Chloride	1099.332	51924745
3	5.03	Nitrite	4.488	393050
4	6.17	Bromide <i>OK</i>	0.788	19381
5	6.97	Nitrate	57.643	6420460
7	9.00	Sulfate	1877.556	46727846

7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112489
Data File Name : ...\\710_039.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 05:04:22

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

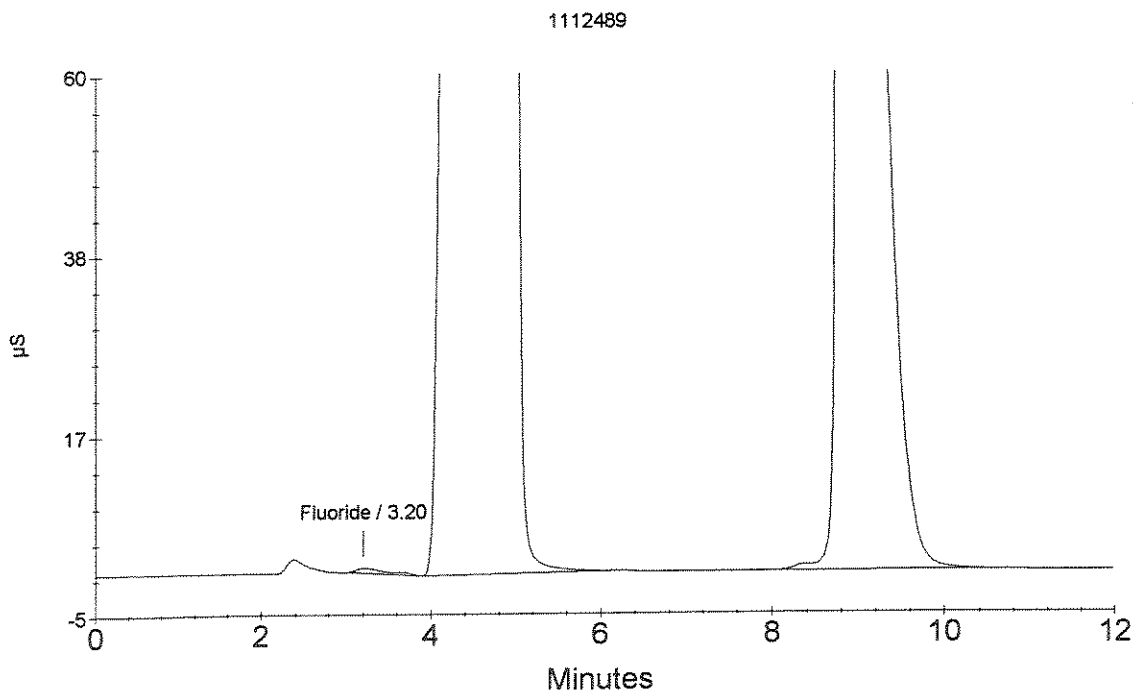
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride Chloride	2.343	157727
2	4.90	Nitrite Bromide Nitrate	3040.225	279344104
3	8.93	Sulfate	2873.159	71495762

OK

CY
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112489 DUP
Data File Name : ...710_040.DXD
Method File Name : ...20080710.met
Date Time Collected : 7/11/08 05:18:41

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

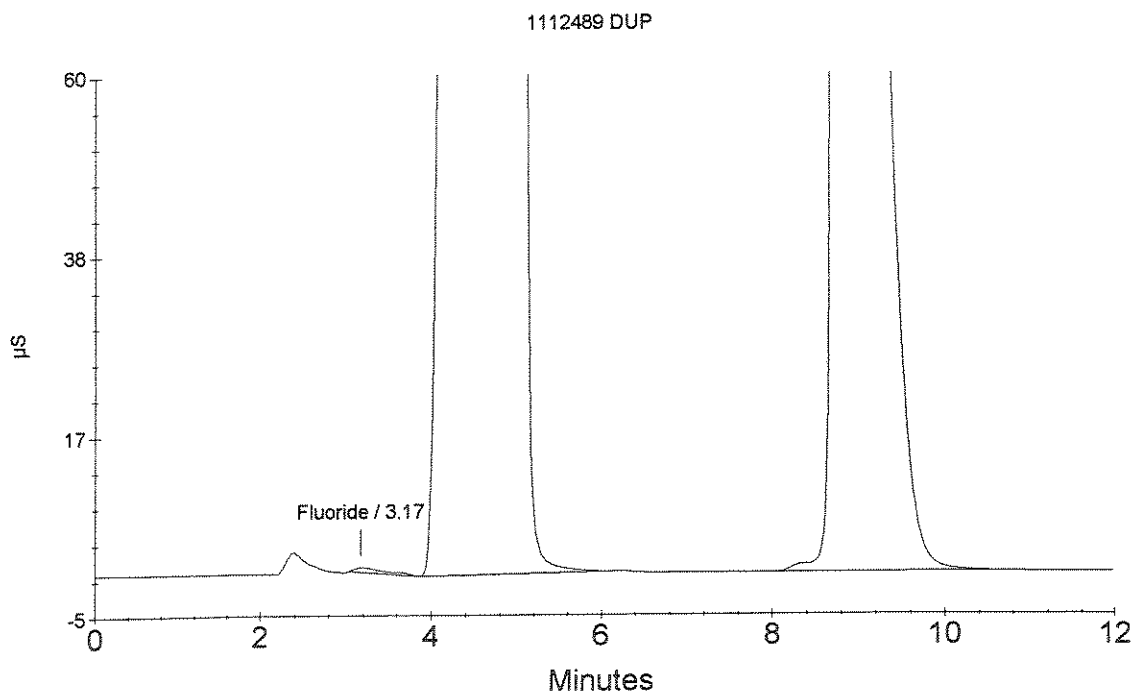
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride Chloride	2.275	153317
2	4.97	Nitrite Bromide	3744.707	344078326
3	8.87	Nitrate Sulfate	3768.058	93758432

OK
7/11/08



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : 1112489 SPK
Data File Name : ...\\710_041.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 05:33:00

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

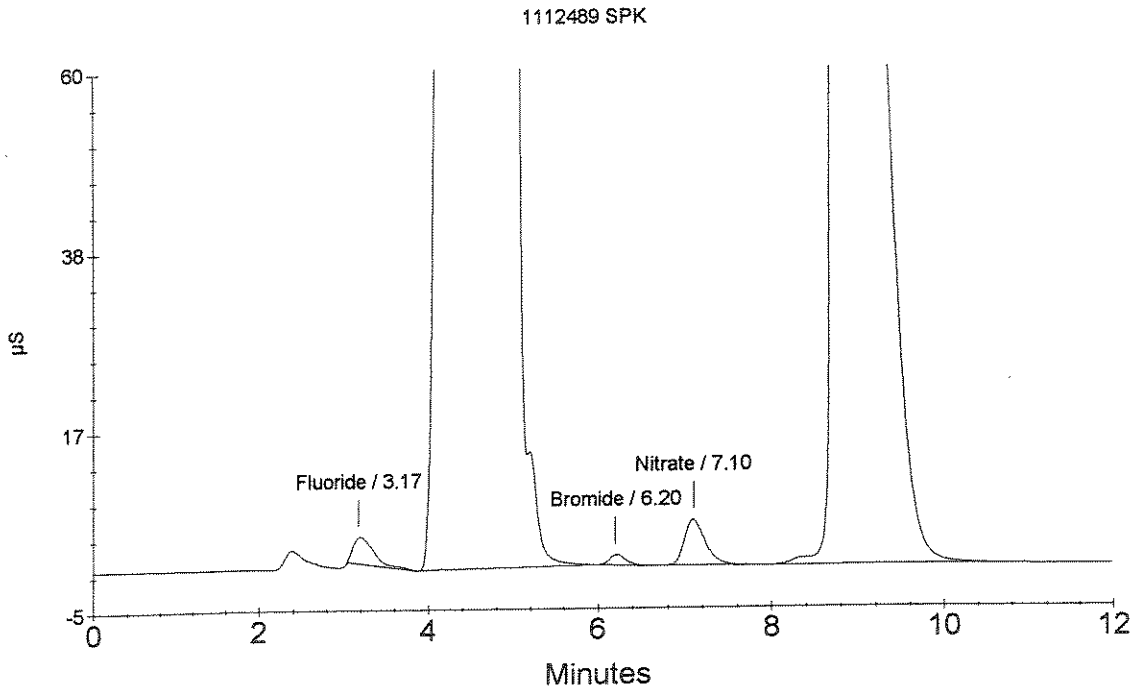
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride Chloride	8.485	555569
2	4.93	Nitrite	3414.925	313774962
3	6.20	Bromide <i>OK</i>	9.594	163582
4	7.10	Nitrate	8.964	921140
5	8.87	Sulfate	3407.793	84796005

CYT
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\710_042.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 05:47:20

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

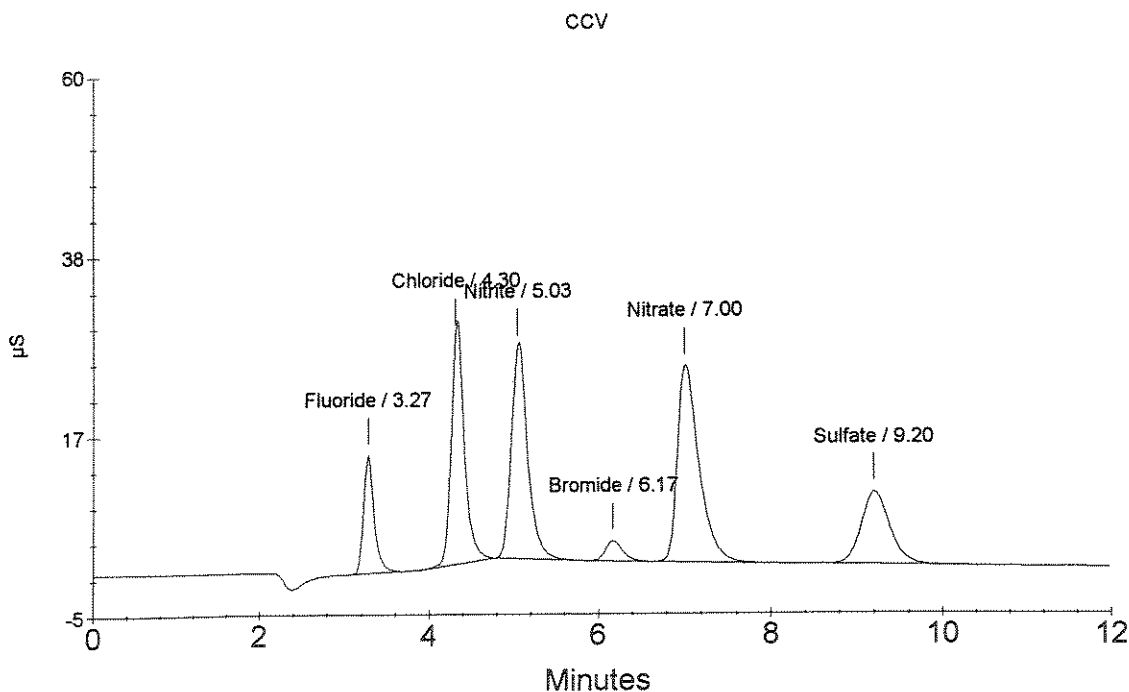
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	1.861	1211648
2	4.30	Chloride	6.670	3137330
3	5.03	Nitrite	3.737	3414264
4	6.17	Bromide	2.040	340480
5	7.00	Nitrate	3.706	4095482
6	9.20	Sulfate	7.879	1979423

OK
CCV
7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCB
 Data File Name : ...710_043.DXD
 Method File Name : ...20080710.met
 Date Time Collected : 7/11/08 06:01:40

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

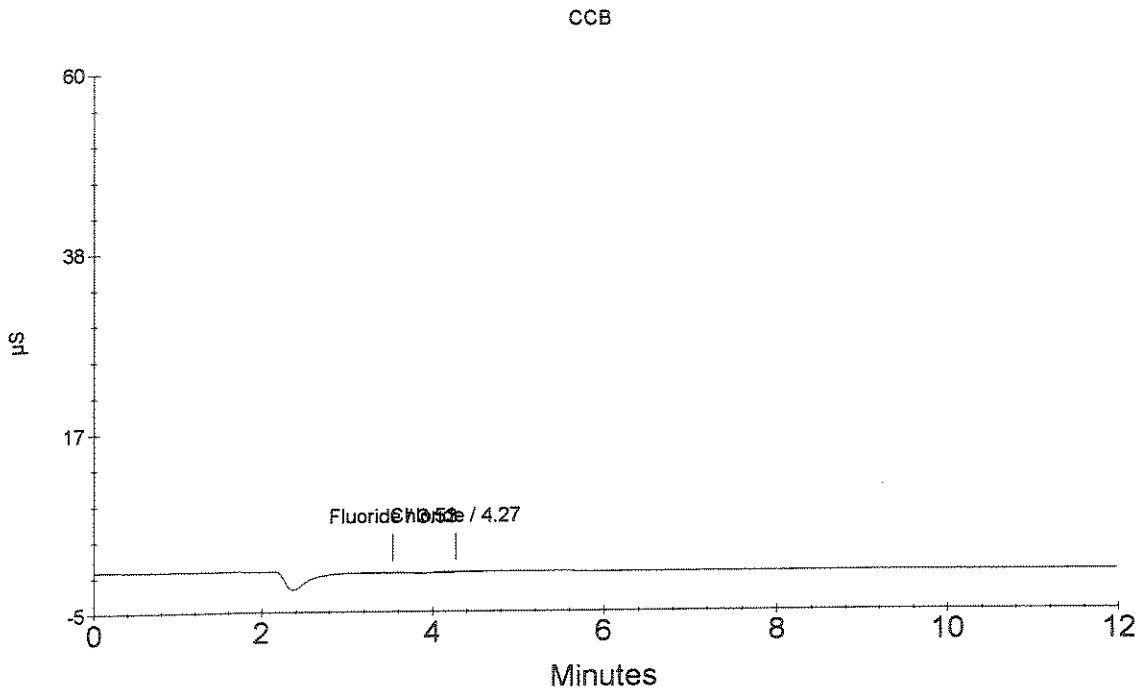
Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.53	Fluoride	0.042	32875
2	4.27	Chloride	0.099	33016
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
CW
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\\710_044.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 06:15:59

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

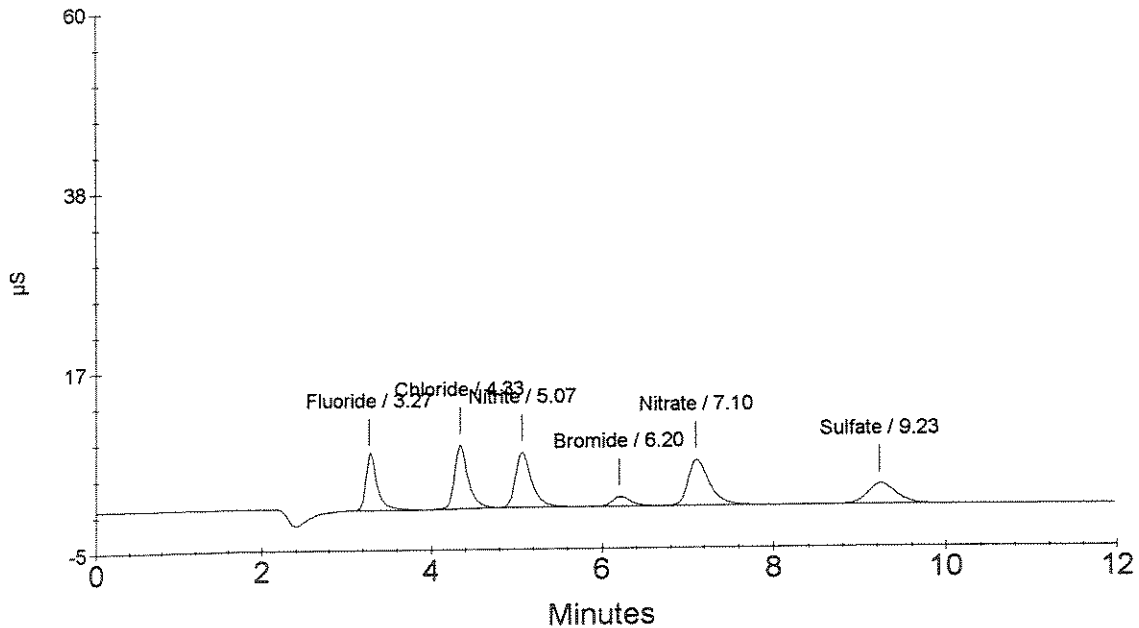
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.973	636112
2	4.33	Chloride	1.797	835473
3	5.07	Nitrite	0.960	862528
4	6.20	Bromide <i>OK</i>	0.976	166318
5	7.10	Nitrate	0.914	941437
6	9.23	Sulfate	2.160	556637

CWT
7/11/08

LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112809
Data File Name : ...\\710_045.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 06:30:18

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

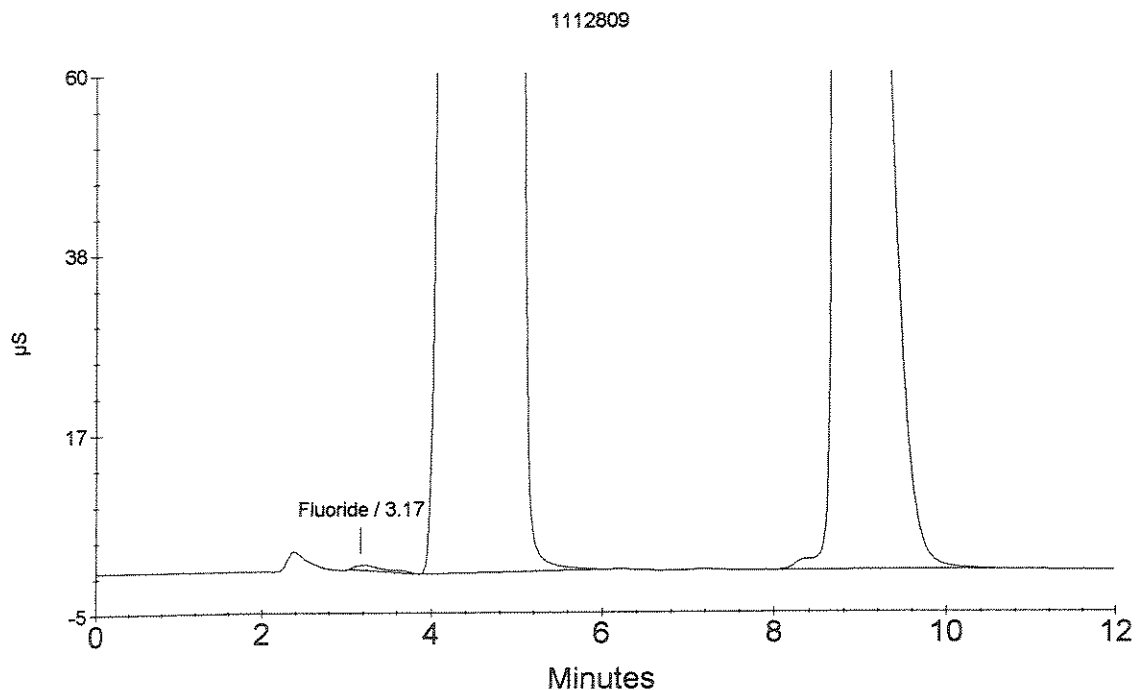
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride Chloride	2.376	159805
2	4.97	Nitrite Bromide	3590.033	329865517
3	8.83	Nitrate Sulfate	3787.365	94238743

DX

*CW
7/11/08*



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112810
Data File Name : ...\\710_046.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 06:44:38

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

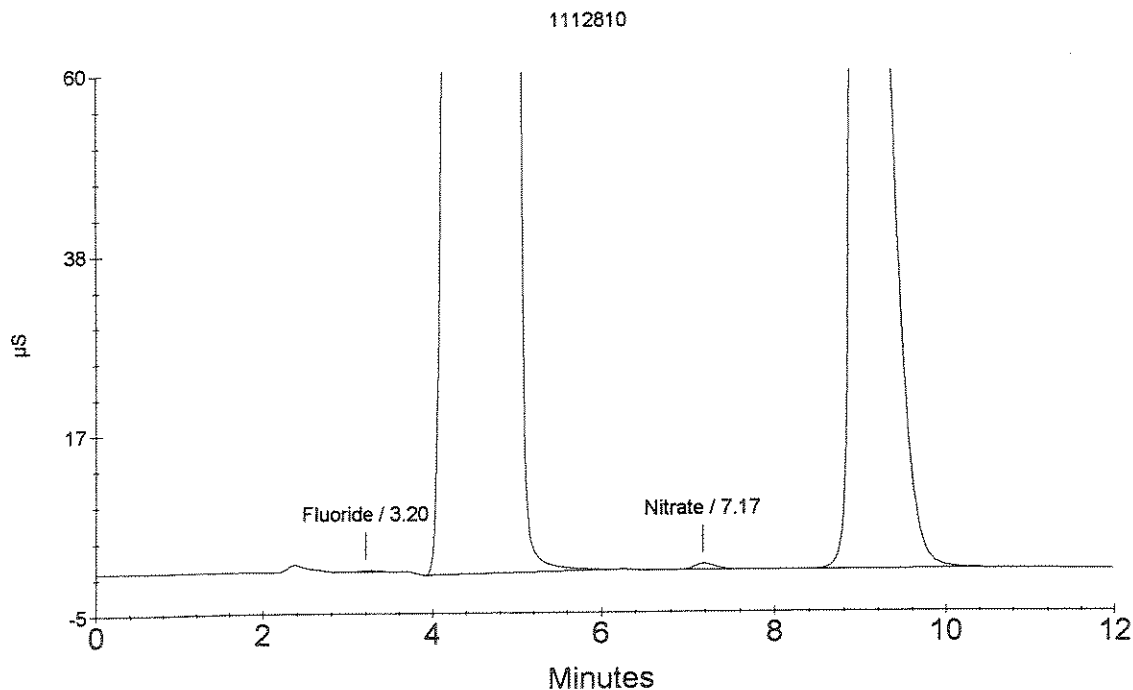
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride Chloride	0.261	22810
2	4.90	Nitrite Bromide	2870.878	263782988
3	7.17	Nitrate	1.859	118529
4	9.03	Sulfate	1869.672	46531696

OK
7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1112811
 Data File Name : ...\\710_047.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 06:58:57

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

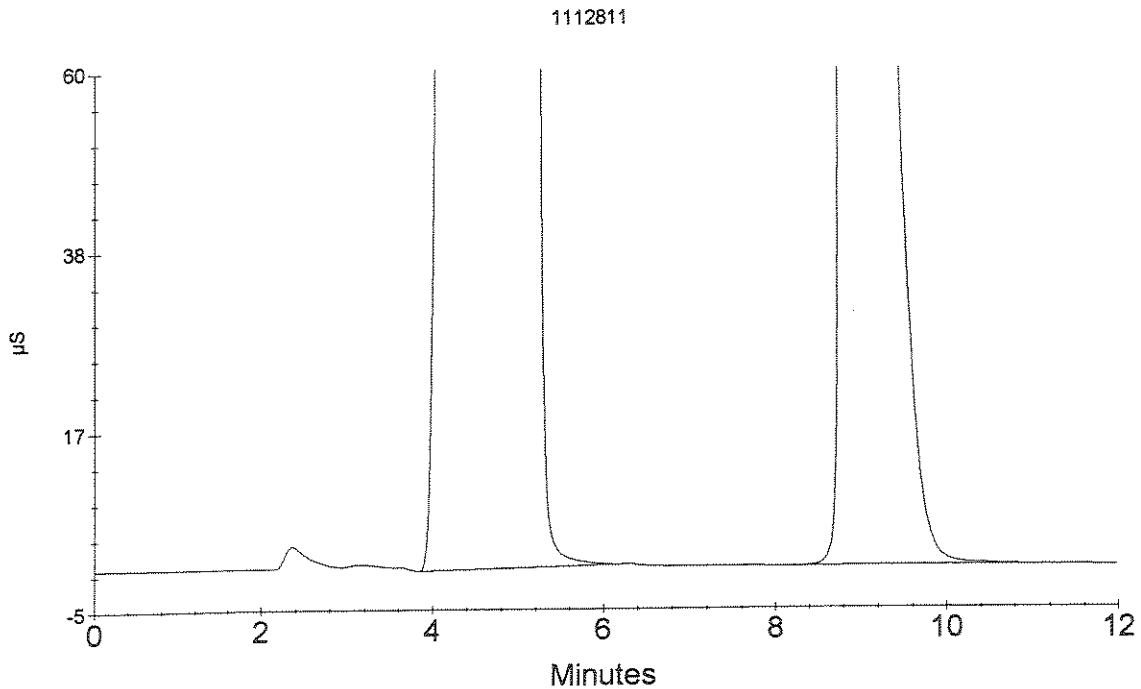
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	5.13	Nitrite Chloride	4802.499	441277863
1	5.13	Nitrite Bromide	4802.499	441277863
2	8.93	Nitrate Sulfate	3683.872	91664125

OK
CW 7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1112812
 Data File Name : ...710_048.DXD
 Method File Name : ...20080710.met
 Date Time Collected : 7/11/08 07:13:16

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

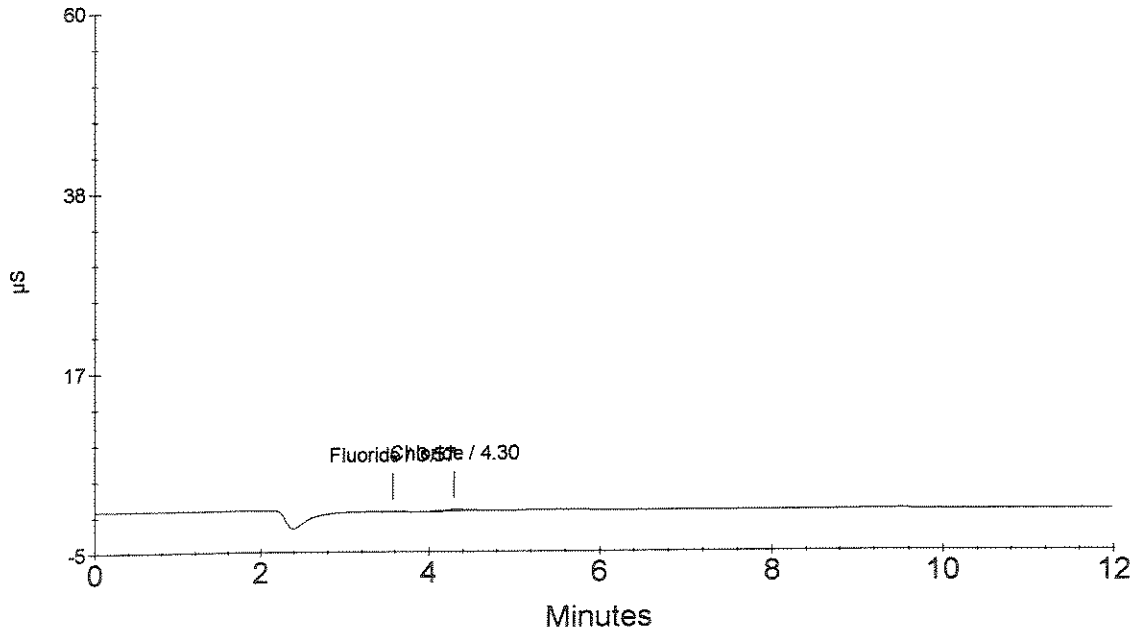
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.428	33632
2	4.30	Chloride	1.162	41140
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
7/11/08

1112812



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113426
Data File Name : ...\\710_049.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 07:27:36

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

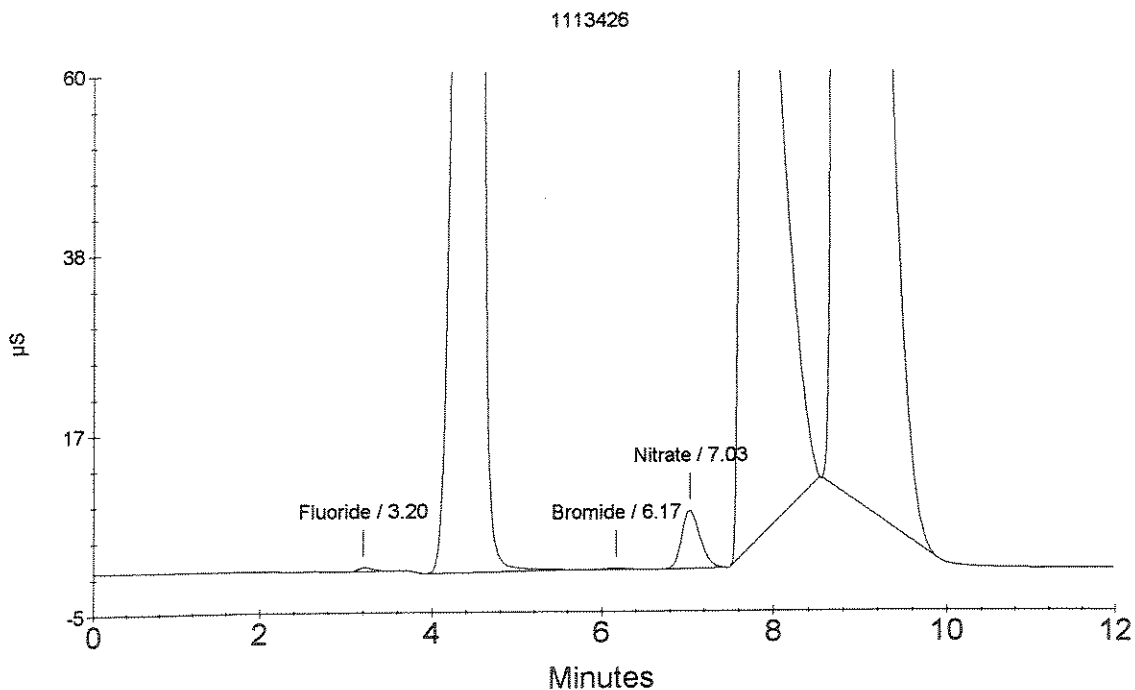
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.718	52410
2	4.50	Chloride	1246.620	58883470
3	6.17	Nitrite Bromide <i>OK</i>	1.147	25261
4	7.03	Nitrate	10.049	1043716
6	8.83	Sulfate	3777.230	93986620

OK
7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1113427
 Data File Name : ...\\710_050.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 07:41:56

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

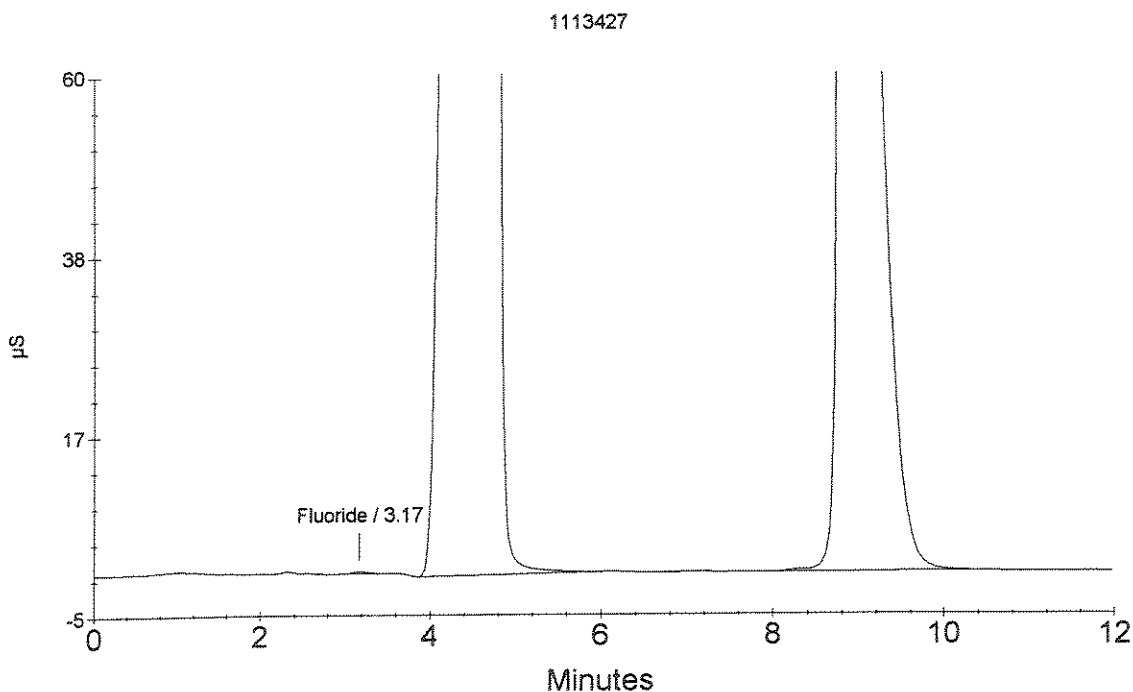
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.327	27132
2	4.70	Chloride Nitrite Bromide	3707.303	175139771
3	8.90	Nitrate Sulfate	2143.644	53347393

OK
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113428
Data File Name : ...\\710_051.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 07:56:16

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

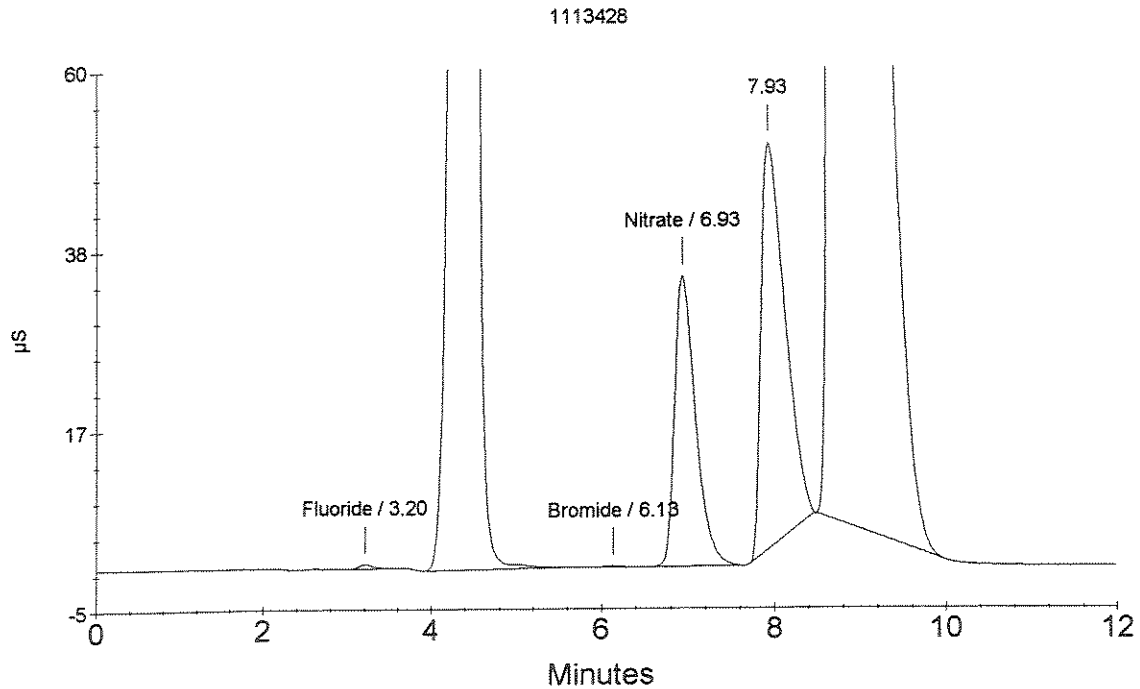
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.761	55197
2	4.43	Chloride	1118.620	52836030
		Nitrite		
3	6.13	Bromide <i>OK</i>	0.728	18406
4	6.93	Nitrate	51.921	5774075
6	8.80	Sulfate	4429.258	110207332

Handwritten signature



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113429
Data File Name : ...\\710_052.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 08:10:35

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

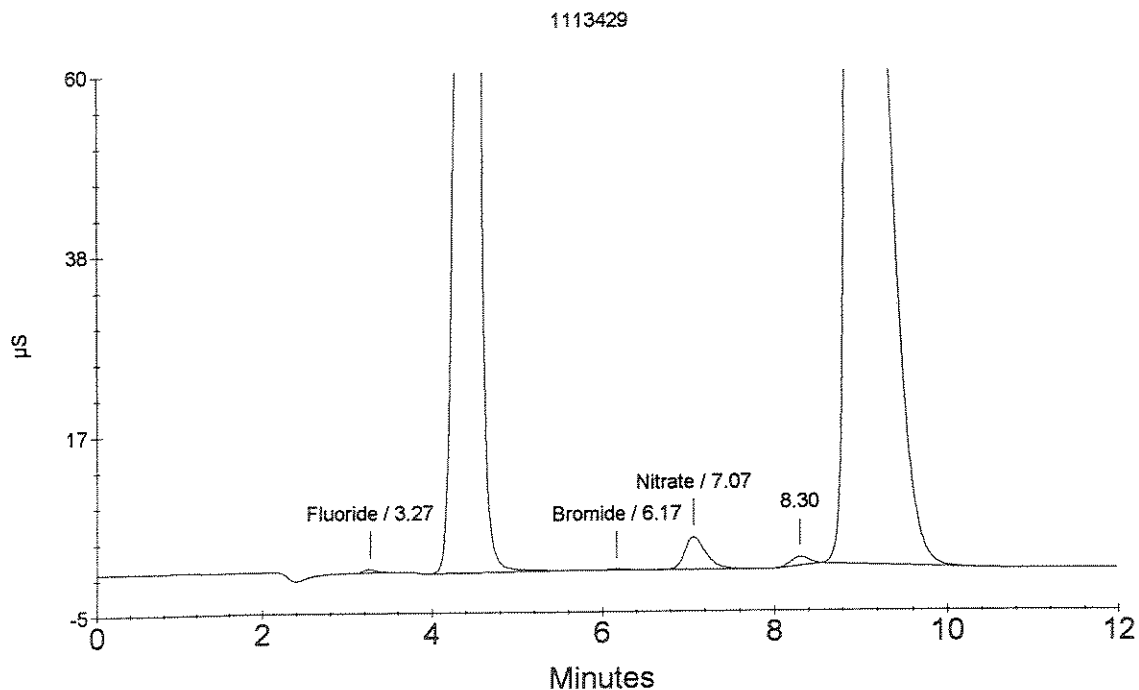
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.540	40909
2	4.47	Chloride	845.349	39925196
3	6.17	Nitrite Bromide <i>OK</i>	0.800	19583
4	7.07	Nitrate	6.666	661536
6	9.00	Sulfate	1993.870	49621424

CW
7/11/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1113430
 Data File Name : ...\\710_053.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 08:24:54

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

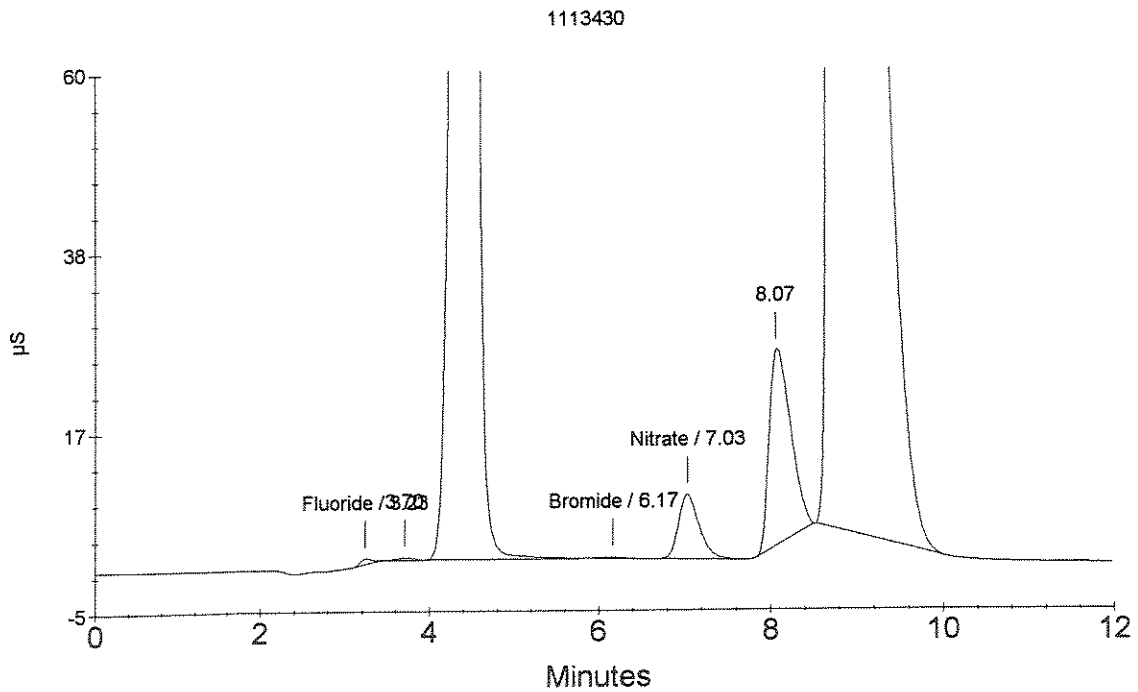
Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	0.807	58211
3	4.47	Chloride	1069.937	50535999
4	6.17	Nitrite Bromide	1.031	23367
5	7.03	Nitrate	12.140	1279969
7	8.83	Sulfate	4064.678	101137546

OK
CWT
7/11/08



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : 1113430 DUP
Data File Name : ...\\710_054.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 08:39:14

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

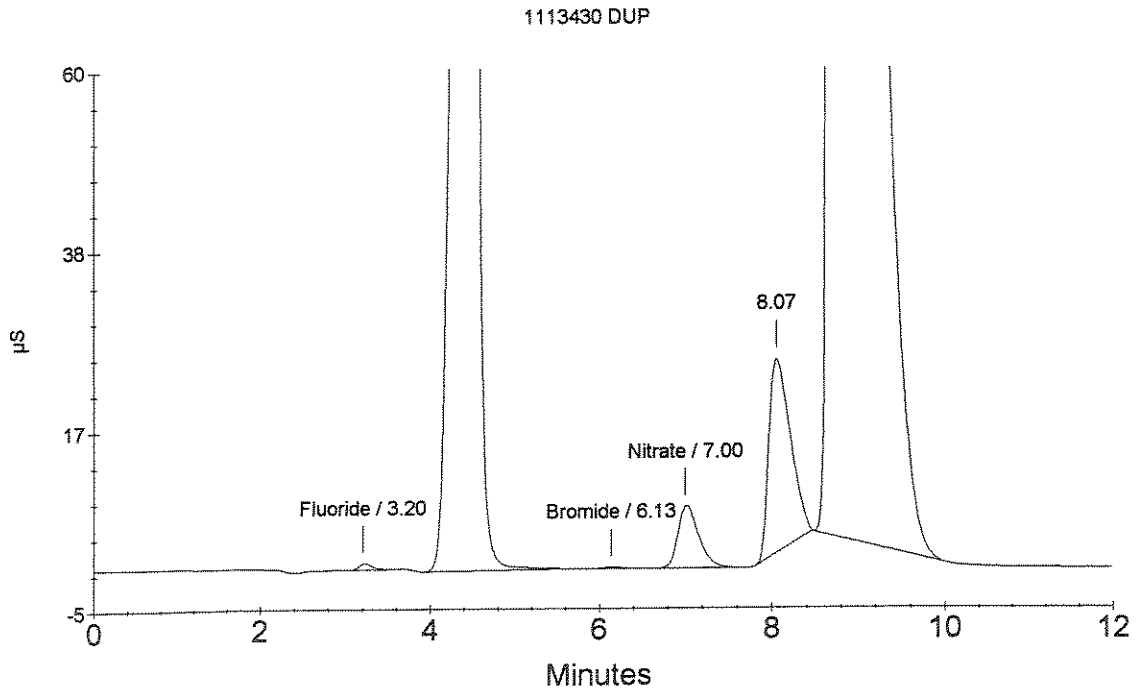
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	1.149	80362
2	4.47	Chloride	1079.753	50999734
		Nitrite		
3	6.13	Bromide <i>OK</i>	0.972	22400
4	7.00	Nitrate	11.870	1249444
6	8.80	Sulfate	4129.865	102759217

CW
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113430 SPK
Data File Name : ...\\710_055.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 08:53:33

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

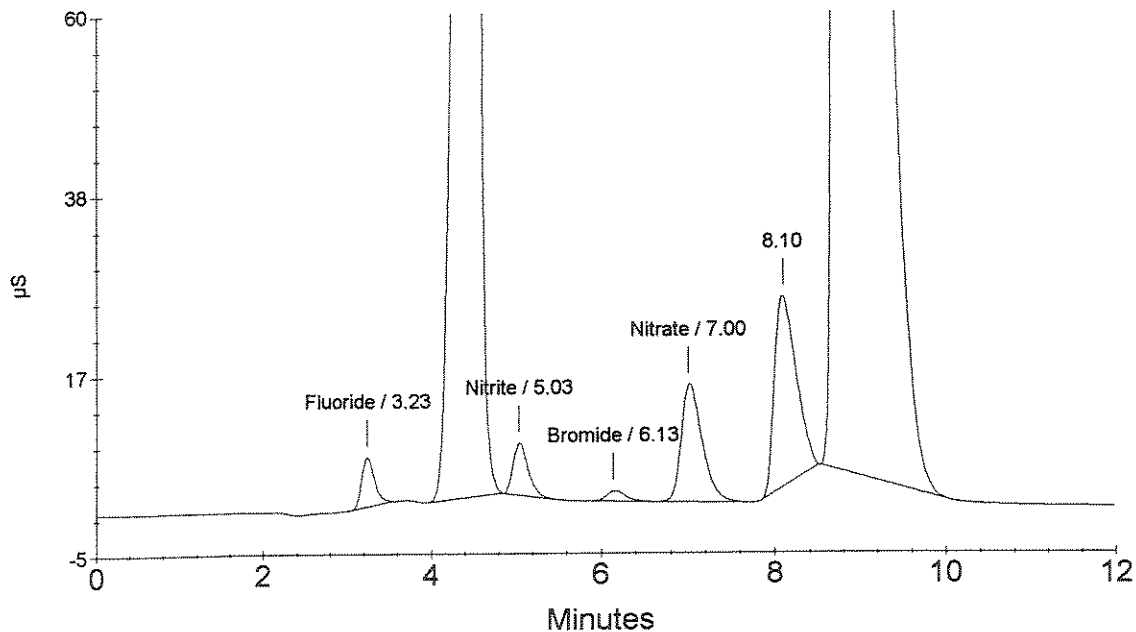
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	9.507	621713
2	4.47	Chloride	1078.996	50963970
3	5.03	Nitrite	8.510	762553
4	6.13	Bromide	11.152	189107
5	7.00	Nitrate	21.840	2375821
7	8.83	Sulfate	4104.697	102133125

CW
7/11/08

1113430 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\710_056.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 09:07:51

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

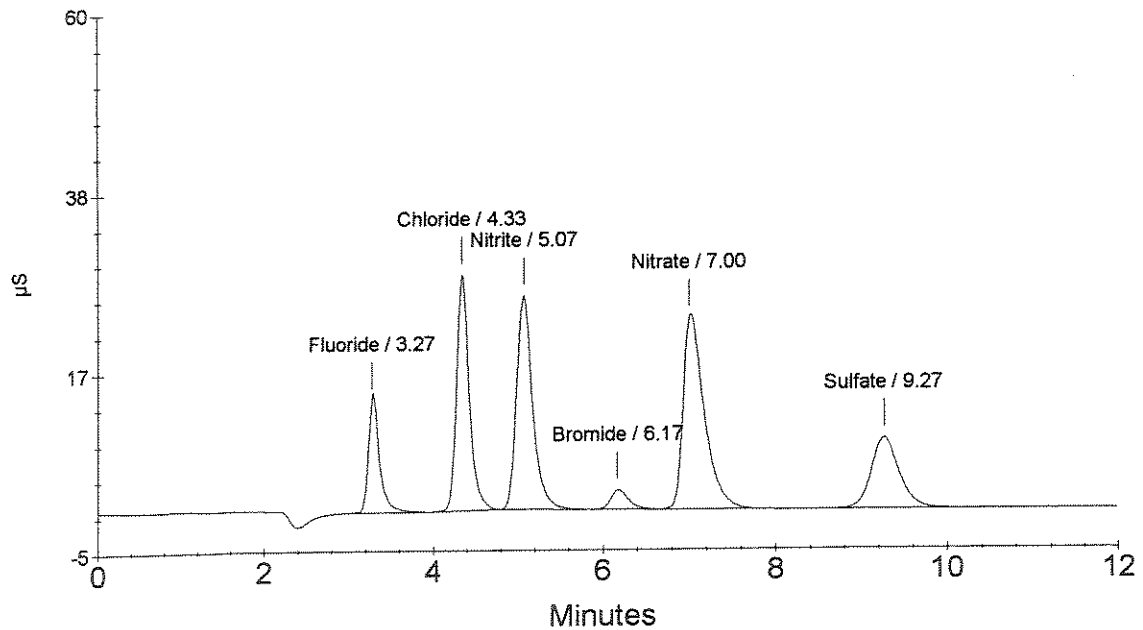
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	1.983	1290532
2	4.33	Chloride	6.304	2964363
3	5.07	Nitrite	3.680	3361993
4	6.17	Bromide <i>OK</i>	1.980	330705
5	7.00	Nitrate	3.619	3997157
6	9.27	Sulfate	7.679	1929662

CCV
7/11/08

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\710_057.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 09:22:11

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

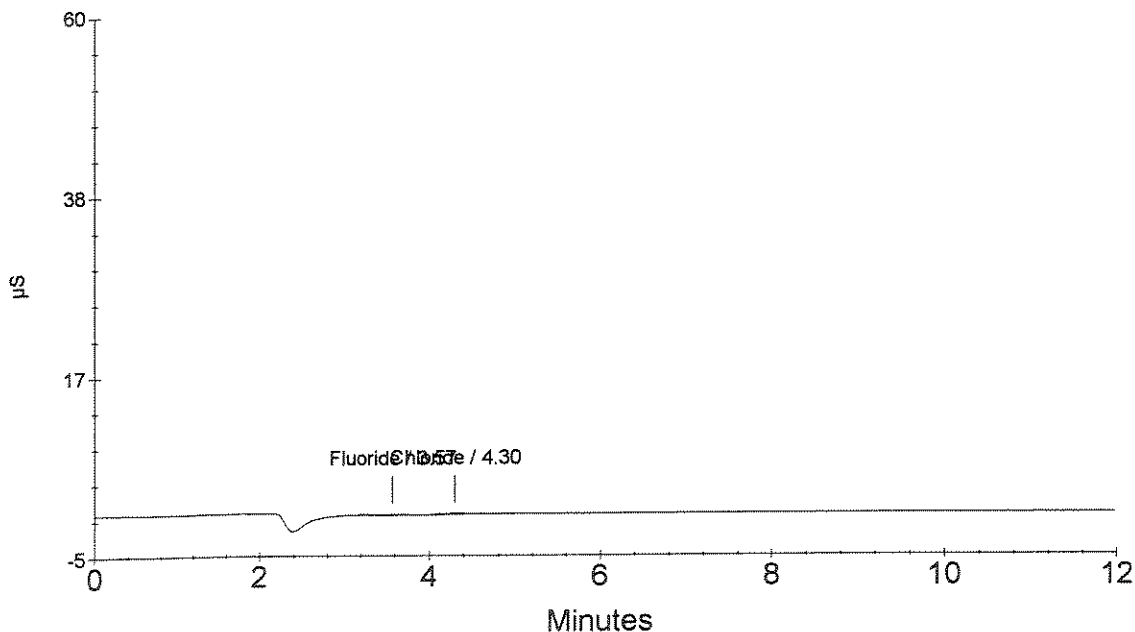
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.044	34269
2	4.30	Chloride	0.096	31795
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
CM
7/11/08

CCB



Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: 07/10/08

Loop size: 100 uL

Analyst: _____

Analysis Date: _____

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	07/10/08	WC90010A		Working Calibration Stds	07/10/08	WC90010H
LCS / MS Intermediate	07/10/08	WC90010A		Working LCS/MS Standard	07/10/08	WC90050A
ICV Intermediate	06/23/08	WC90100A		Working ICV Standard	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A		Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

CURVE INVALID FOR SULFATE ANALYSIS

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	WC90010A	50	2.0	100	1.0	CMM	7/10/08	A	7/17/08	WC90050A
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		

Run #: 163865
 Analyte: BROMIDE 9056
 Printed: 07/14/08 10:42

BROMIDE BY ION CHROMATOGRAPHY

44866
 44538
 44862
 44885

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED		DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT	U					ANALYZED		
ESMP	R2844866	1116922	WATER	1.00	U	10.0	0.100			07/12/08		ASPB
CHK5		1117122	WATER	2.00		1.0	0.100	100.0		07/11/08		
BLK4		1117123	WATER	0.100	U	1.0	0.100			07/11/08		
SPKB		1117124	WATER	0.946		1.0	0.100	94.6		07/11/08		
SPKB		1117125	WATER	0.950		1.0	0.100	95.0		07/11/08		
ESMP	R2844866	1116921	WATER	1.00	U	10.0	0.100			07/12/08		ASPB
ESMP	R2844866	1116373	WATER	1.00	U	10.0	0.100			07/12/08		ASPB
LDUP		1117126	WATER	1.00	U	10.0	0.100			07/12/08		
SPK1		1117127	WATER	8.89		10.0	0.100	88.9		07/12/08	RUN	ASPB
ESMP	R2844538	1110981	WATER	2.00	U	20.0	0.100			07/12/08		
BLK5		1117128	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08		
ESMP	R2844862	1115724	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08		ASPB
ESMP	R2844862	1115725	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08		ASPB
ESMP	R2844862	1115726	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08		ASPB
ESMP	R2844862	1115727	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08		ASPB
ESMP	R2844862	1115730	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08		ASPB
ESMP	R2844862	1115731	SOIL/SEDIME	10.0	U	1.0	10.0			07/12/08		ASPB
ESMP	R2844862	1115732	SOIL/SEDIME	10.0	U	1.0	10.0			07/12/08		ASPB
ESMP	R2844862	1115733	SOIL/SEDIME	10.0	U	1.0	10.0			07/12/08		ASPB
ESMP	R2844862	1115734	SOIL/SEDIME	1.16		1.0	10.0			07/12/08		ASPB
ESMP	R2844862	1115735	SOIL/SEDIME	10.0	U	1.0	10.0			07/12/08		ASPB
ESMP	R2844862	1115736	SOIL/SEDIME	10.0	U	1.0	10.0			07/12/08		ASPB
ESMP	R2844862	1115737	SOIL/SEDIME	10.0	U	1.0	10.0			07/12/08		ASPB
ESMP	R2844862	1115738	SOIL/SEDIME	4.41		1.0	10.0			07/12/08		ASPB
ESMP	R2844862	1115739	SOIL/SEDIME	10.0	U	1.0	10.0			07/12/08		ASPB
ESMP	R2844885	1116251	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116253	SOIL/SEDIME	1.00		1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116254	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116255	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116256	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116257	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116258	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116264	SOIL/SEDIME	0.640		1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116265	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116267	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116269	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116271	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116273	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116274	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116275	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116276	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116277	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116278	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB
ESMP	R2844885	1116279	SOIL/SEDIME	10.0	U	1.0	10.0			07/11/08	RUN	ASPB

Records printed: 44

Reviewed & Approved

By: SDelo

Date: 7/14/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

07-11-08

Data Manually Entered.

Analyst: C Woods
Pipets: Mine
Way

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
1	CCV	Sample		20080710.met	710_001.dxd	1	
2	CCB	Sample		20080710.met	710_002.dxd	1	
3	LCS	Sample		20080710.met	710_003.dxd	1	
4	MTD BLK 7/9/08	Sample		20080710.met	710_004.dxd	1	EXTRACTION: NO2
5	1115735	Sample		20080710.met	710_005.dxd	2	EXTRACTION: NO2
6	1115736	Sample		20080710.met	710_006.dxd	2	EXTRACTION: NO2
7	1115738	Sample		20080710.met	710_007.dxd	2	EXTRACTION: NO2
8	1115739	Sample		20080710.met	710_008.dxd	2	EXTRACTION: NO2
9	MTD BLK 7/10/08	Sample		20080710.met	710_009.dxd	1	EXTRACTION: CBNN
10	1116251	Sample		20080710.met	710_010.dxd	1	EXTRACTION: CBNN
11	1116253	Sample		20080710.met	710_011.dxd	1	EXTRACTION: CBNN
12	1116254	Sample		20080710.met	710_012.dxd	1	EXTRACTION: CBNN
13	1116255	Sample		20080710.met	710_013.dxd	1	EXTRACTION: CBNN
14	1116256	Sample		20080710.met	710_014.dxd	1	EXTRACTION: CBNN
15	1116257	Sample		20080710.met	710_015.dxd	1	EXTRACTION: CBNN
16	CCV	Sample		20080710.met	710_016.dxd	1	
17	CCB	Sample		20080710.met	710_017.dxd	1	
18	1116258	Sample		20080710.met	710_018.dxd	1	EXTRACTION: CBNN
19	1116264	Sample		20080710.met	710_019.dxd	1	EXTRACTION: CBNN
20	1116265	Sample		20080710.met	710_020.dxd	1	EXTRACTION: CBNN
21	1116267	Sample		20080710.met	710_021.dxd	1	EXTRACTION: CBNN
22	1116269	Sample		20080710.met	710_022.dxd	1	EXTRACTION: CBNN
23	1116271	Sample		20080710.met	710_023.dxd	1	EXTRACTION: CBNN
24	1116273	Sample		20080710.met	710_024.dxd	1	EXTRACTION: CBNN
25	1116274	Sample		20080710.met	710_025.dxd	1	EXTRACTION: CBNN
26	1116275	Sample		20080710.met	710_026.dxd	1	EXTRACTION: CBNN
27	1116276	Sample		20080710.met	710_027.dxd	1	EXTRACTION: CBNN
28	CCV	Sample		20080710.met	710_028.dxd	1	
29	CCB	Sample		20080710.met	710_029.dxd	1	
30	LCS	Sample		20080710.met	710_030.dxd	1	
31	1116277	Sample		20080710.met	710_031.dxd	1	EXTRACTION: CBNN
32	1116278	Sample		20080710.met	710_032.dxd	1	EXTRACTION: CBNN
33	1116279	Sample		20080710.met	710_033.dxd	1	EXTRACTION: CBNN
34	1115724	Sample		20080710.met	710_034.dxd	1	EXTRACTION: B
35	1115725	Sample		20080710.met	710_035.dxd	1	EXTRACTION: B
36	1115726	Sample		20080710.met	710_036.dxd	1	EXTRACTION: B
37	1115727	Sample		20080710.met	710_037.dxd	1	EXTRACTION: B
38	1115730	Sample		20080710.met	710_038.dxd	1	EXTRACTION: B
39	1115731	Sample		20080710.met	710_039.dxd	1	EXTRACTION: B
40	1115732	Sample		20080710.met	710_040.dxd	1	EXTRACTION: B
41	CCV	Sample		20080710.met	710_041.dxd	1	
42	CCB	Sample		20080710.met	710_042.dxd	1	
43	1115733	Sample		20080710.met	710_043.dxd	1	EXTRACTION: B
44	1115734	Sample		20080710.met	710_044.dxd	1	EXTRACTION: B
45	1115735	Sample		20080710.met	710_045.dxd	1	EXTRACTION: B

91899

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
46	1115736	Sample		20080710.met	710_046.dxd	1	EXTRACTION: B
47	1115737	Sample		20080710.met	710_047.dxd	1	EXTRACTION: B
48	1115738	Sample		20080710.met	710_048.dxd	1	EXTRACTION: B
49	1115739	Sample		20080710.met	710_049.dxd	1	EXTRACTION: B
50	1110981	Sample		20080710.met	710_050.dxd	20	B
51	1110981	Sample		20080710.met	710_051.dxd	40	B
52	1116367	Sample		20080710.met	710_052.dxd	200	CB
53	1116367 DUP	Sample		20080710.met	710_053.dxd	200	CB
54	1116367 SPK	Sample		20080710.met	710_054.dxd	200	CB
55	CCV	Sample		20080710.met	710_055.dxd	1	
56	CCB	Sample		20080710.met	710_056.dxd	1	
57	LCS	Sample		20080710.met	710_057.dxd	1	
58	1116370	Sample		20080710.met	710_058.dxd	200	B
59	1116370 DUP	Sample		20080710.met	710_059.dxd	200	B
60	1116370 SPK	Sample		20080710.met	710_060.dxd	200	B
61	1116373	Sample		20080710.met	710_061.dxd	10	B
62	1116373 DUP	Sample		20080710.met	710_062.dxd	10	B
63	1116373 SPK	Sample		20080710.met	710_063.dxd	10	B
64	1116373	Sample		20080710.met	710_064.dxd	20	B
65	1116921	Sample		20080710.met	710_065.dxd	10	CBNN
66	1116921	Sample		20080710.met	710_066.dxd	40	CBNN
67	1116921	Sample		20080710.met	710_067.dxd	100	CBNN
68	1116921 DUP	Sample		20080710.met	710_068.dxd	100	CBNN
69	1116921 SPK	Sample		20080710.met	710_069.dxd	100	CBNN
70	1116922	Sample		20080710.met	710_070.dxd	10	CBNN
71	1116922	Sample		20080710.met	710_071.dxd	40	CBNN
72	1116922	Sample		20080710.met	710_072.dxd	100	CBNN
73	1116922 DUP	Sample		20080710.met	710_073.dxd	100	CBNN
74	1116922 SPK	Sample		20080710.met	710_074.dxd	100	CBNN
75	CCV	Sample		20080710.met	710_075.dxd	1	
76	CCB	Sample		20080710.met	710_076.dxd	1	
77	END	Sample		shutdown.met	710	1	

Default Method Path: J:\ACQU\DATA\IC\METHOD\AC\IC#4

Default Data Path: J:\ACQU\DATA\IC\DATA\IC#41071108

Comment:

818101

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...710_001.DXD
Method File Name : ...20080710.met
Date Time Collected : 7/11/08 13:35:07

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

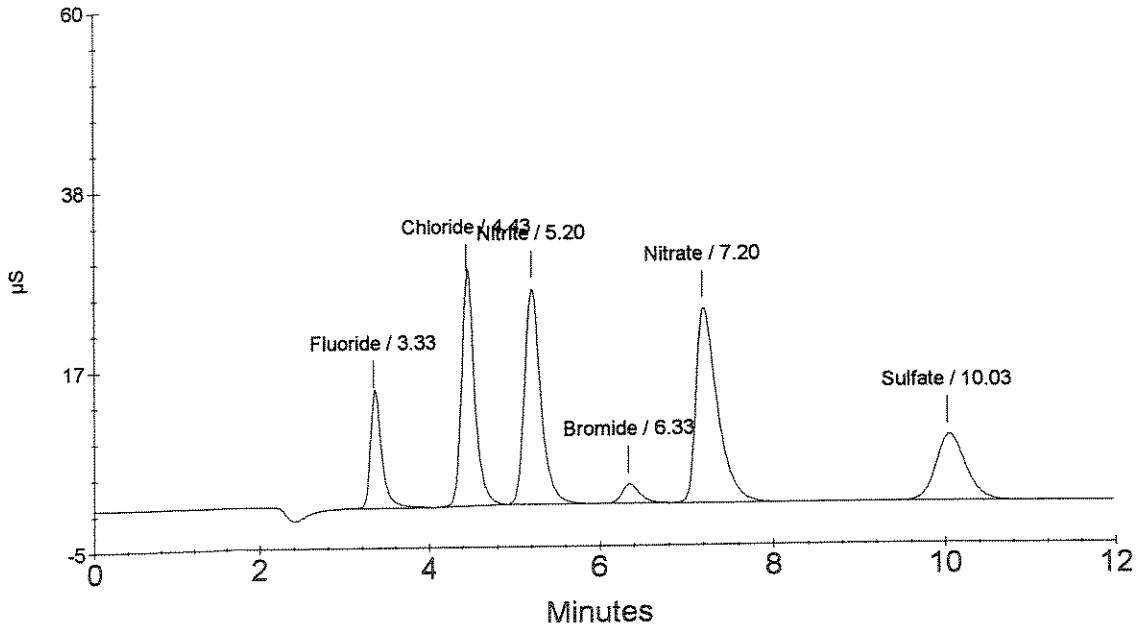
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	2.025	1315130
2	4.43	Chloride	6.390	3002741
3	5.20	Nitrite	3.739	3416484
4	6.33	Bromide	1.999	333852
5	7.20	Nitrate	3.631	4009968
6	10.03	Sulfate	7.694	1933250

OK
7/12/08

CCV



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCB
 Data File Name : ...710_002.DXD
 Method File Name : ...20080710.met
 Date Time Collected : 7/11/08 13:49:23

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

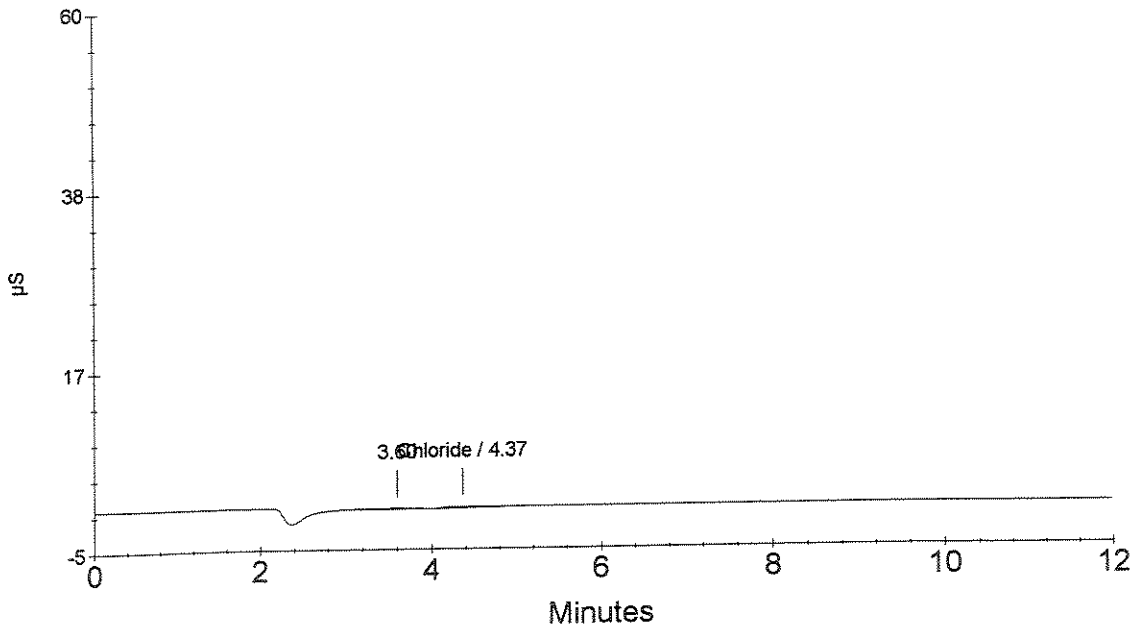
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.60		0.000	36930
2	4.37	Chloride Nitrite Bromide Nitrate Sulfate	0.161	47213

OK
 ↓
CCB
 7/12/08

CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\\710_003.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 14:03:41

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

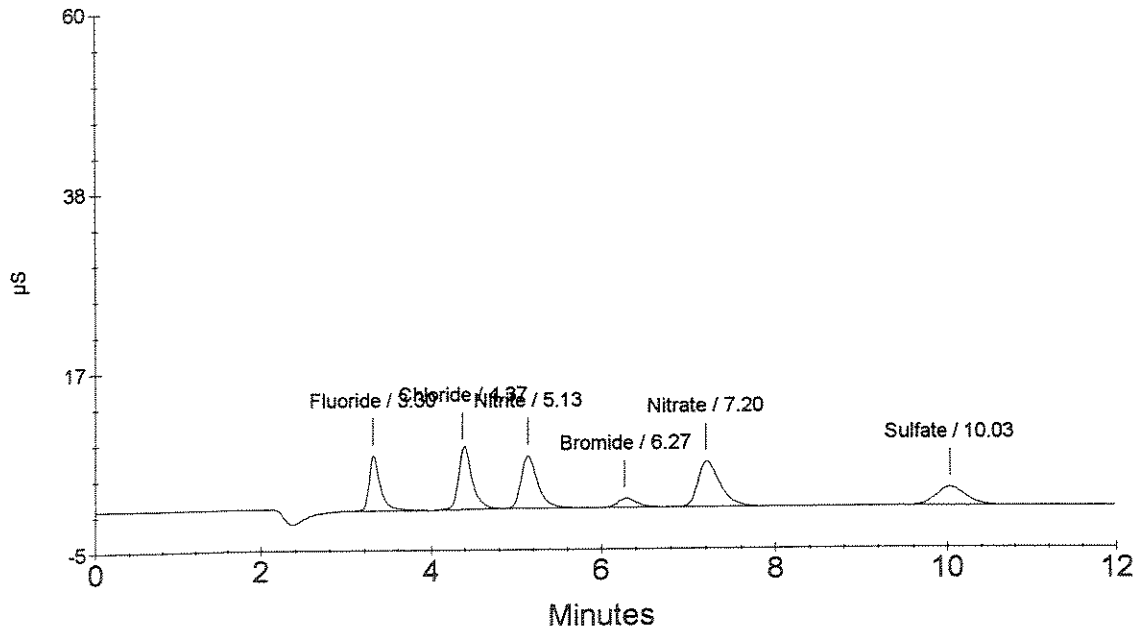
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.953	618709
2	4.37	Chloride	1.834	840788
3	5.13	Nitrite	0.934	826250
4	6.27	Bromide	0.946	161421
5	7.20	Nitrate	0.919	946516
6	10.03	Sulfate	2.114	545255

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7/12/08
LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MTD BLK 7/9/08
Data File Name : ...\\710_004.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 15:49:05

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: NO2

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

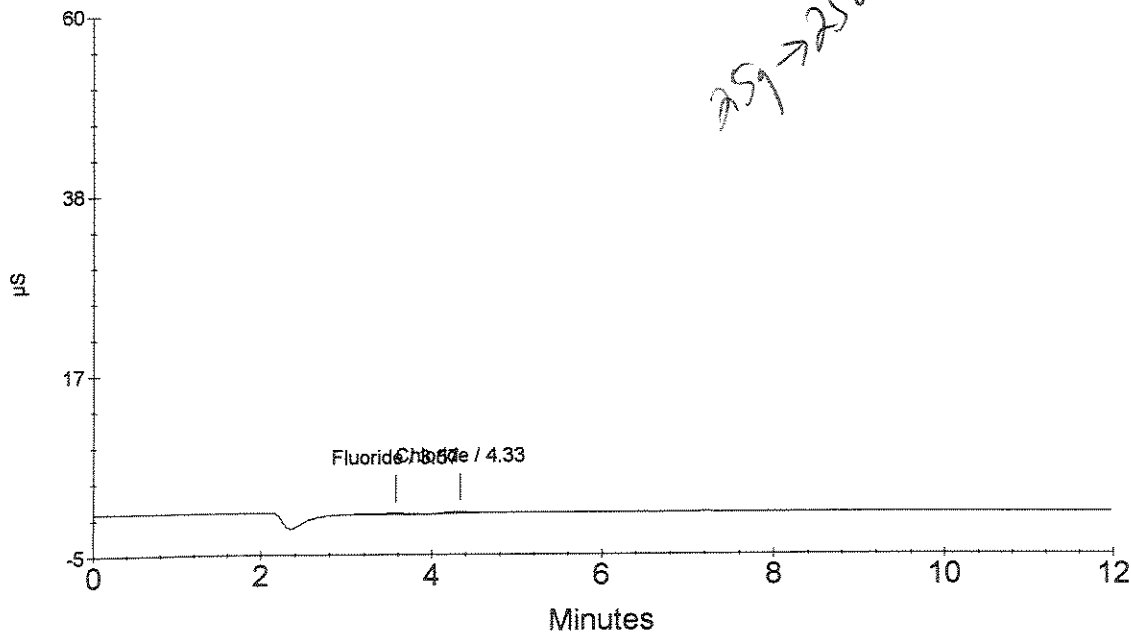
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.052	33649
2	4.33	Chloride	0.141	37850
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
7/12/08

MTD BLK 7/9/08

259 → 250 mL



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115735
 Data File Name : ...\\710_005.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 16:03:24

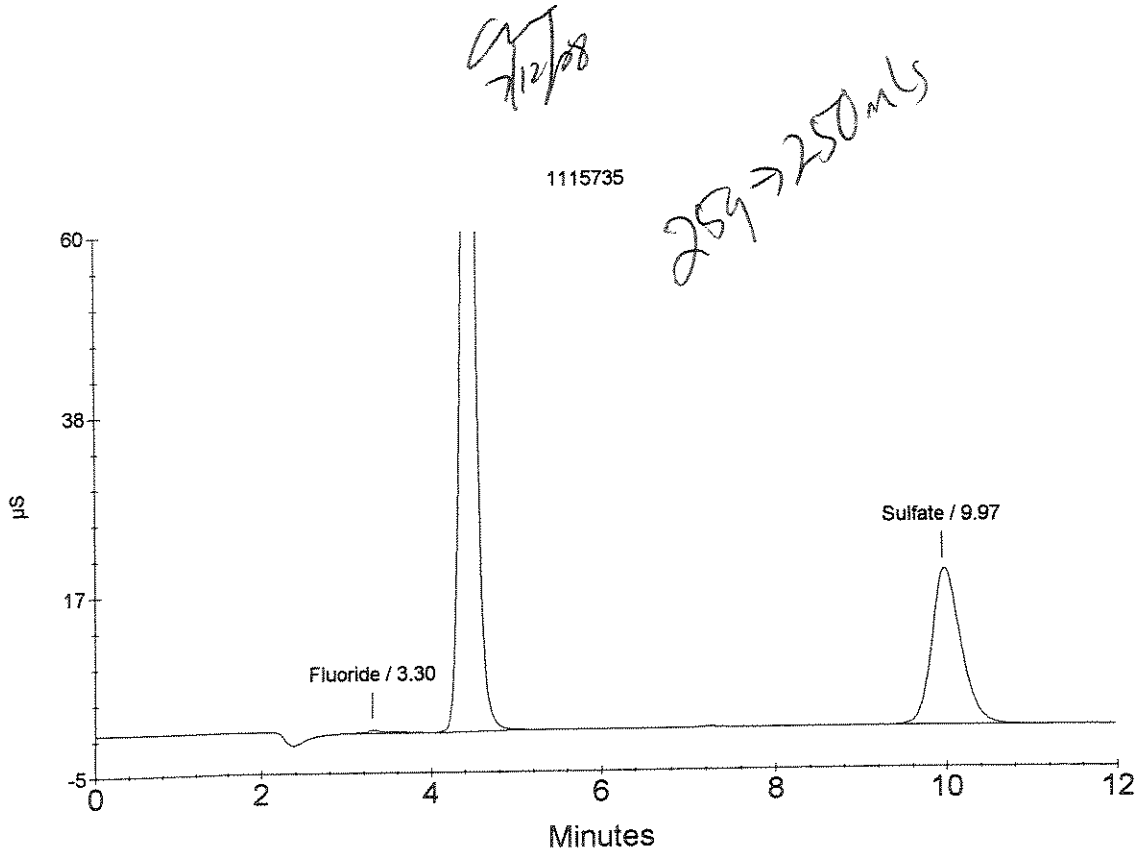
Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 2.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: NO2

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.213	69215
2	4.47	Chloride Nitrite Bromide Nitrate	57.053	13506514
3	9.97	Sulfate	35.734	4464132



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115736
 Data File Name : ...\\710_006.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 16:17:43

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 2.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: NO2

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

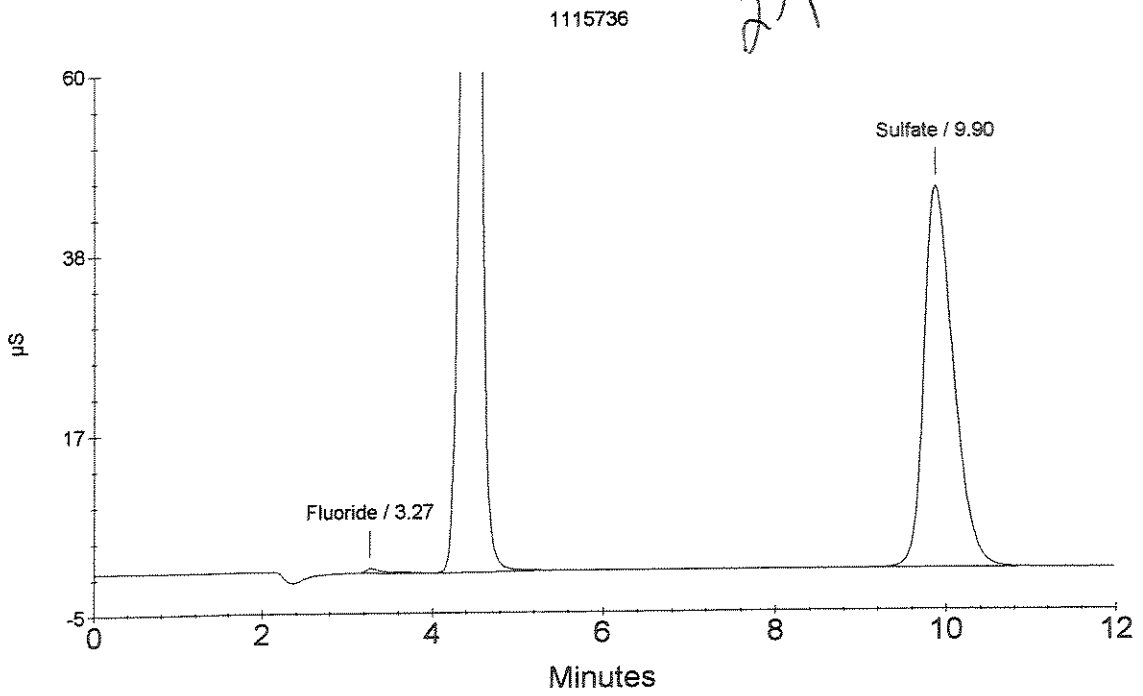
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.270	87986
2	4.50	Chloride Nitrite Bromide Nitrate	120.538	28568398
3	9.90	Sulfate	87.109	10854528

OK

7/12/08

259 → 250 mg



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115738
Data File Name : ...\\710_007.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 16:32:02

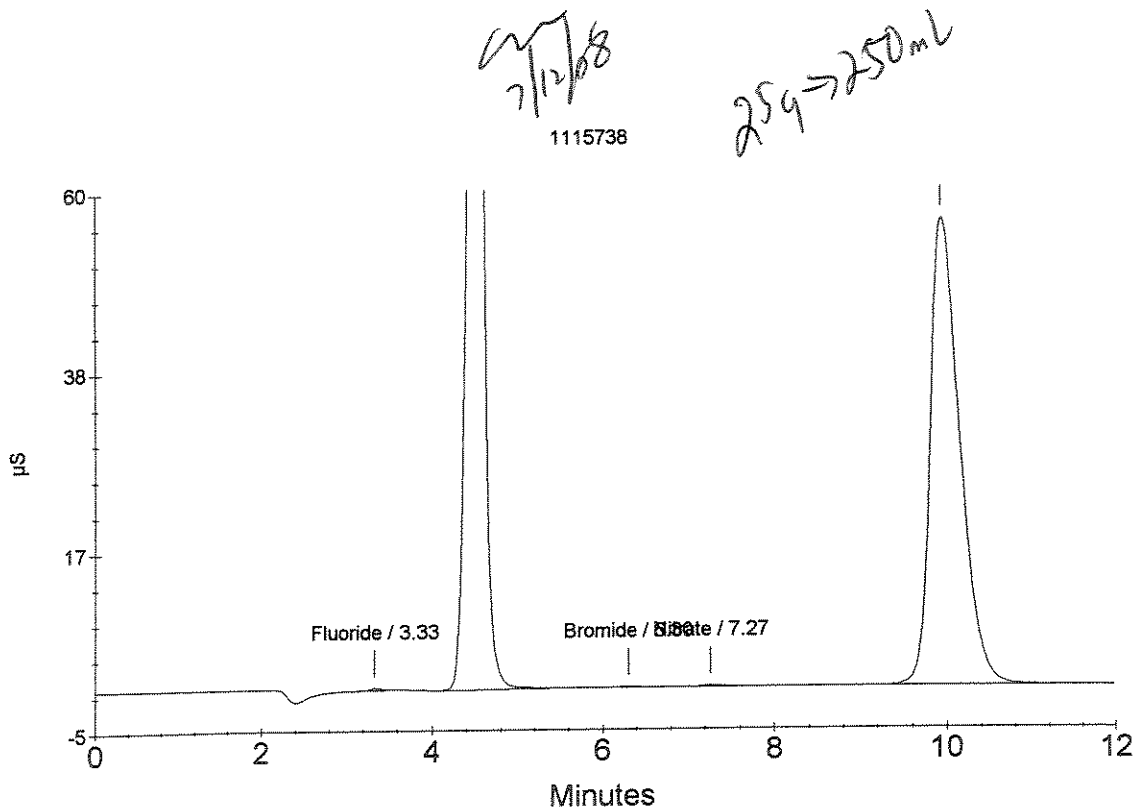
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: NO2

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	0.075	24614
2	4.53	Chloride	76.216	18053098
		Nitrite		
3	6.30	Bromide	0.147	18498
4	7.27	Nitrate	0.217	30842
5	9.97	Sulfate	107.190	13352224



Ion Chromatography Analytical Report
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Sample Name : 1115739
Data File Name : ...\\710_008.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 16:46:23

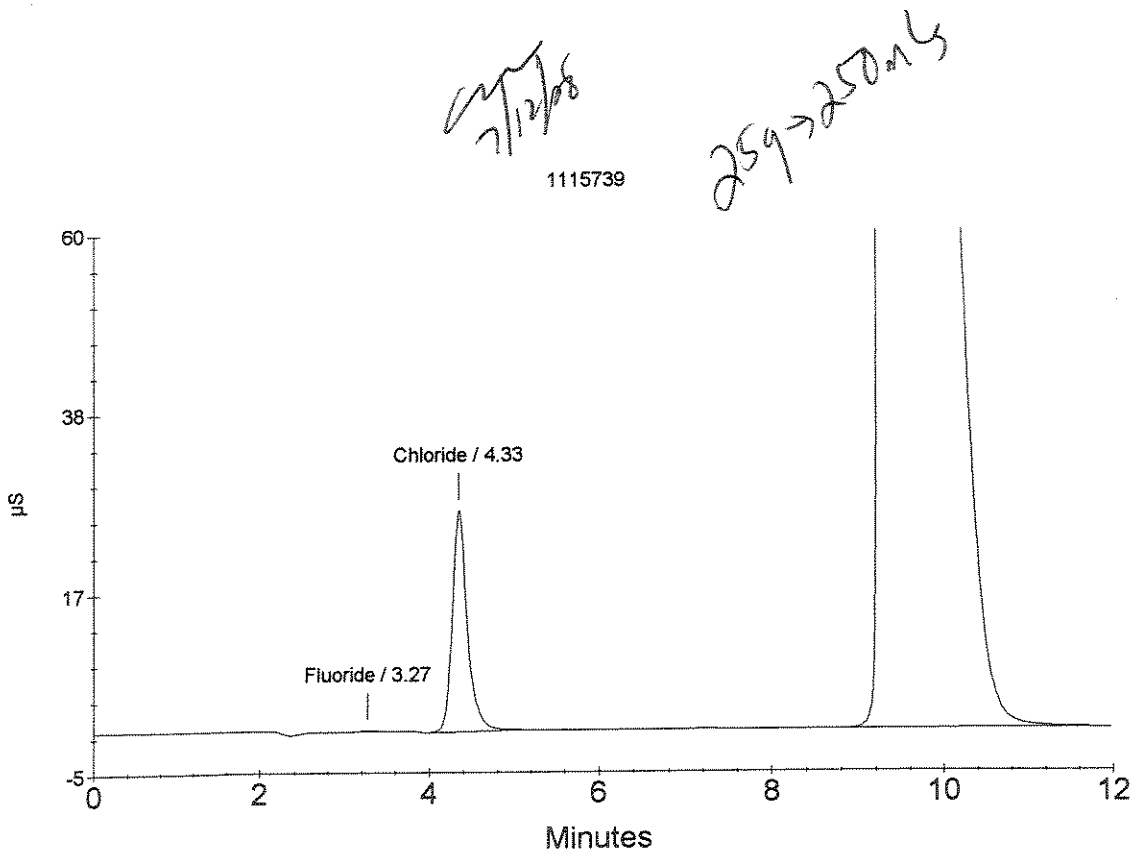
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: NO2

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.034	11261
2	4.33	Chloride Nitrite Bromide Nitrate	13.906	3269930
3	9.40	Sulfate	1327.753	165173878



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : MTD BLK 7/10/08
 Data File Name : ... \710_009.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 17:00:43

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

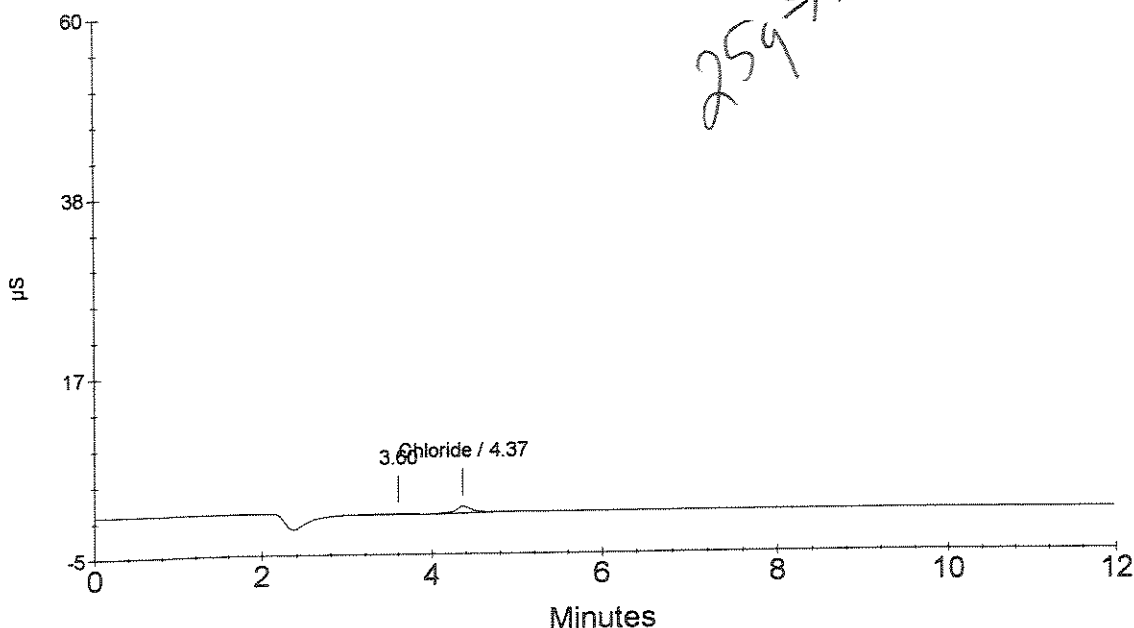
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.60		0.000	36435
2	4.37	Chloride Nitrite Bromide Nitrate Sulfate	0.293	109635

over PQL

7/12/08

MTD BLK 7/10/08

259 → 250 mL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116251
Data File Name : ... \710_010.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/11/08 17:15:03

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

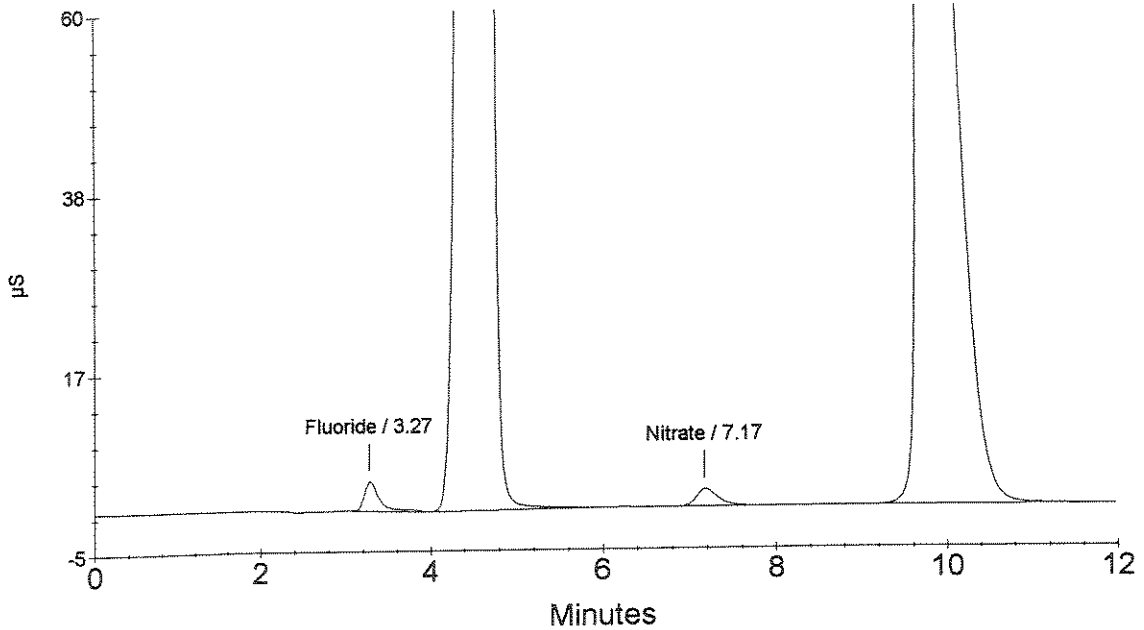
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.703	456674
2	4.67	Chloride Nitrite Bromide	158.871	75355289
3	7.17	Nitrate	0.396	356421
4	9.83	Sulfate	156.063	38843564

7/12/08
259 → 200 ml



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116253
 Data File Name : ... \710_011.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 17:29:22

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: CBNN

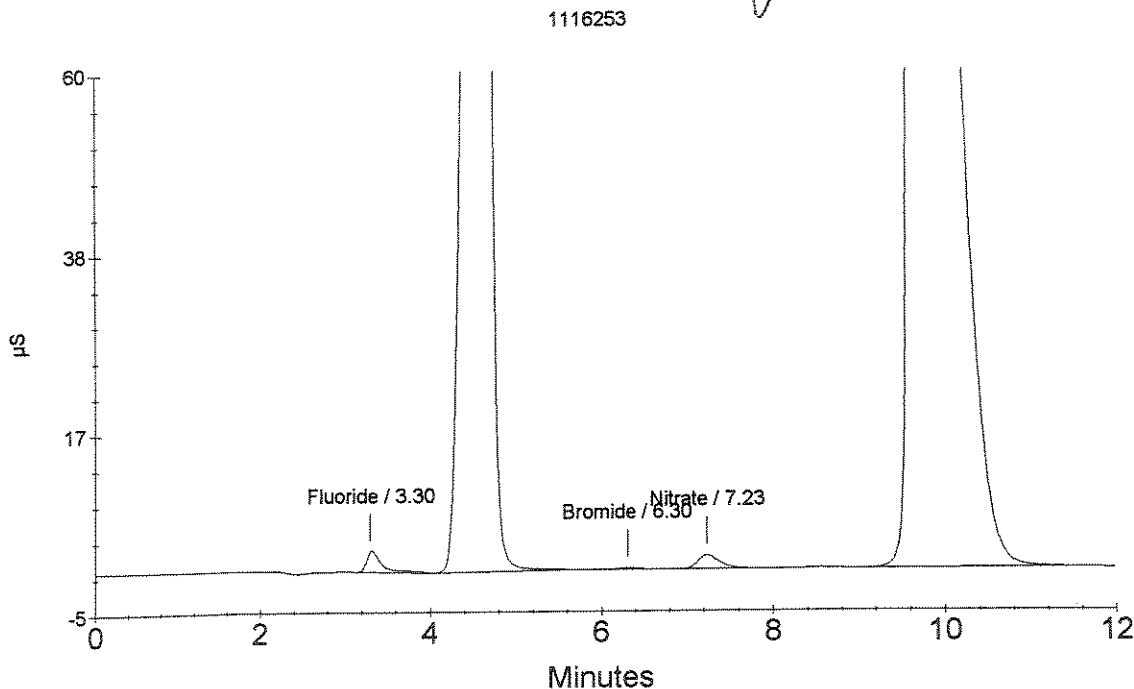
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.502	326375
2	4.63	Chloride	109.523	51939727
		Nitrite		
3	6.30	Bromide	0.100	22826
4	7.23	Nitrate	0.330	281609
5	9.77	Sulfate	275.159	68471522

OK
 7/12/08

259 → 250mL



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 Rochester, NY 14607

Sample Name : 1116254
 Data File Name : ...\\710_012.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 17:43:41

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: CBNN

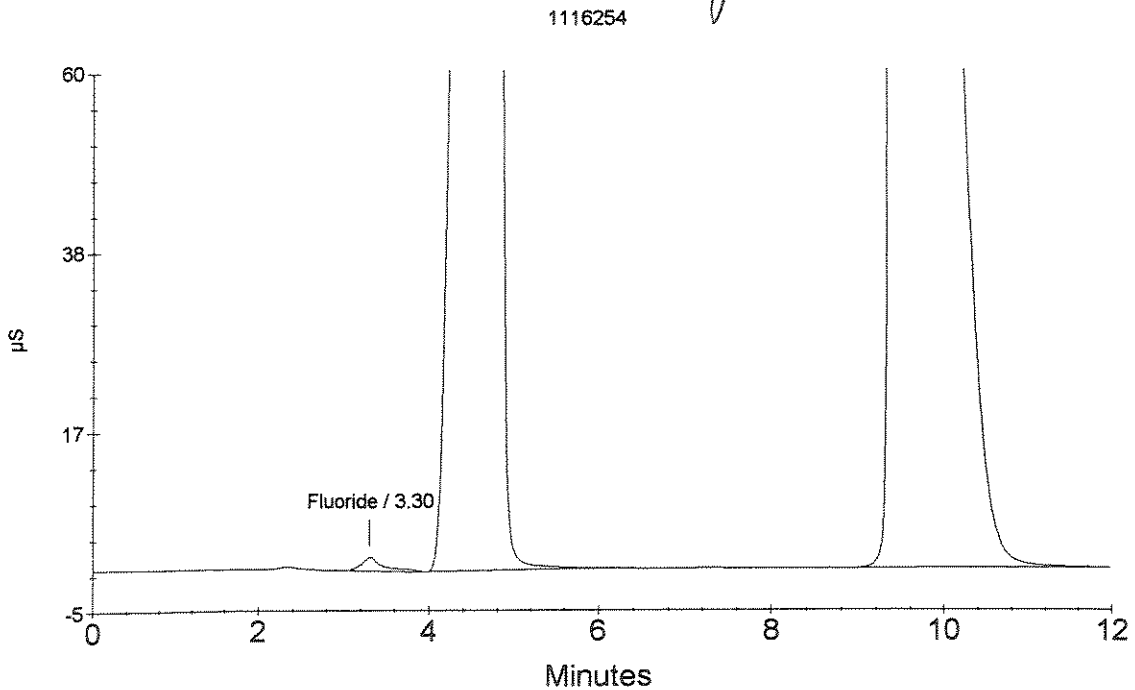
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.449	291632
2	4.73	Chloride Nitrite Bromide Nitrate	113.918	105135534
3	9.53	Sulfate	539.152	134145764

7/12/08

259 → 250 mL



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : 1116255
Data File Name : ...\\710_013.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 17:58:01

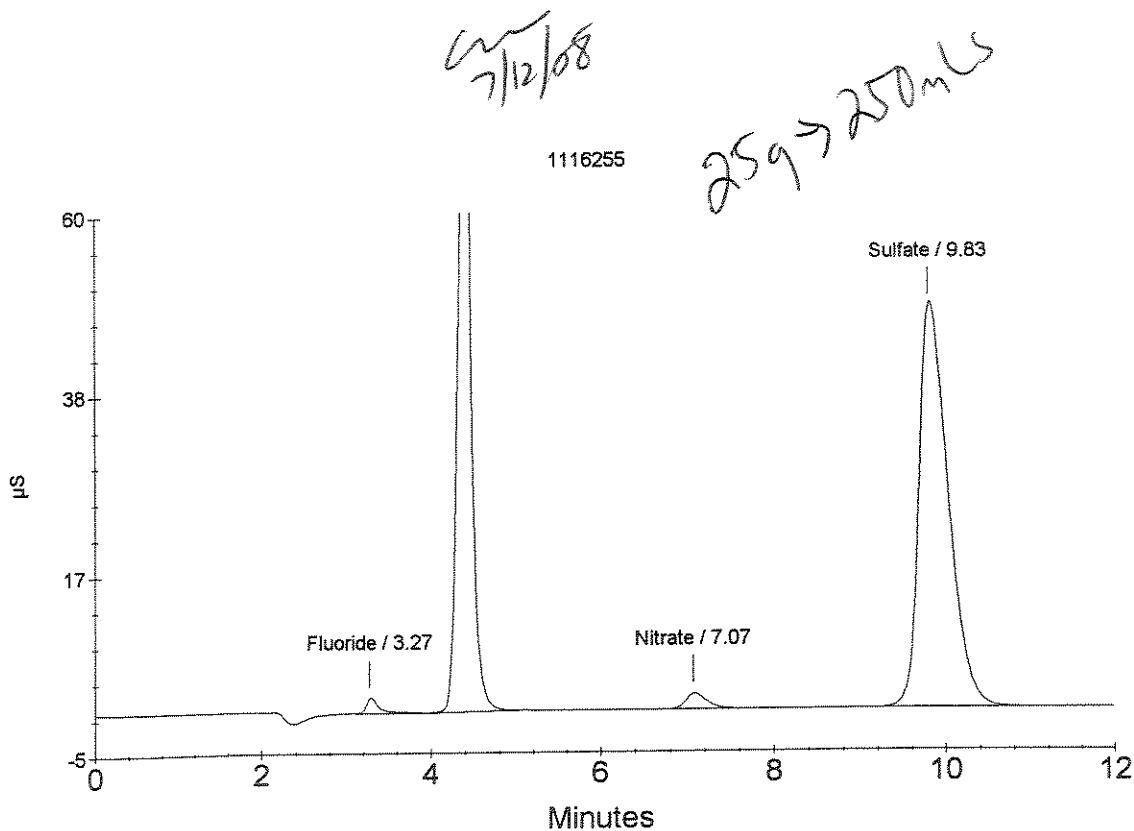
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.306	198956
2	4.37	Chloride Nitrite Bromide	19.365	9159701
3	7.07	Nitrate	0.359	314266
4	9.83	Sulfate	46.538	11596668



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 Rochester, NY 14607

Sample Name : 1116256
 Data File Name : ... \710_014.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 18:12:20

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

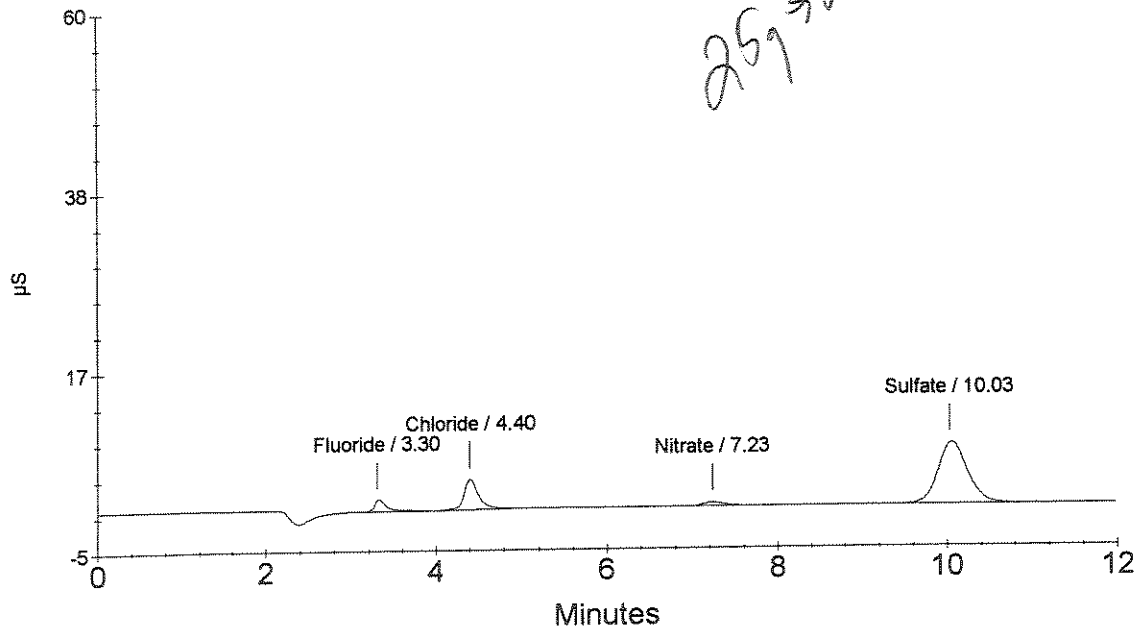
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.230	149572
2	4.40	Chloride	0.995	442685
		Nitrite		
		Bromide		
3	7.23	Nitrate	0.149	77067
4	10.03	Sulfate	7.092	1783643

W
 7/12/08

1116256

259 → 250 mL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257
Data File Name : ...\\710_015.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 18:26:39

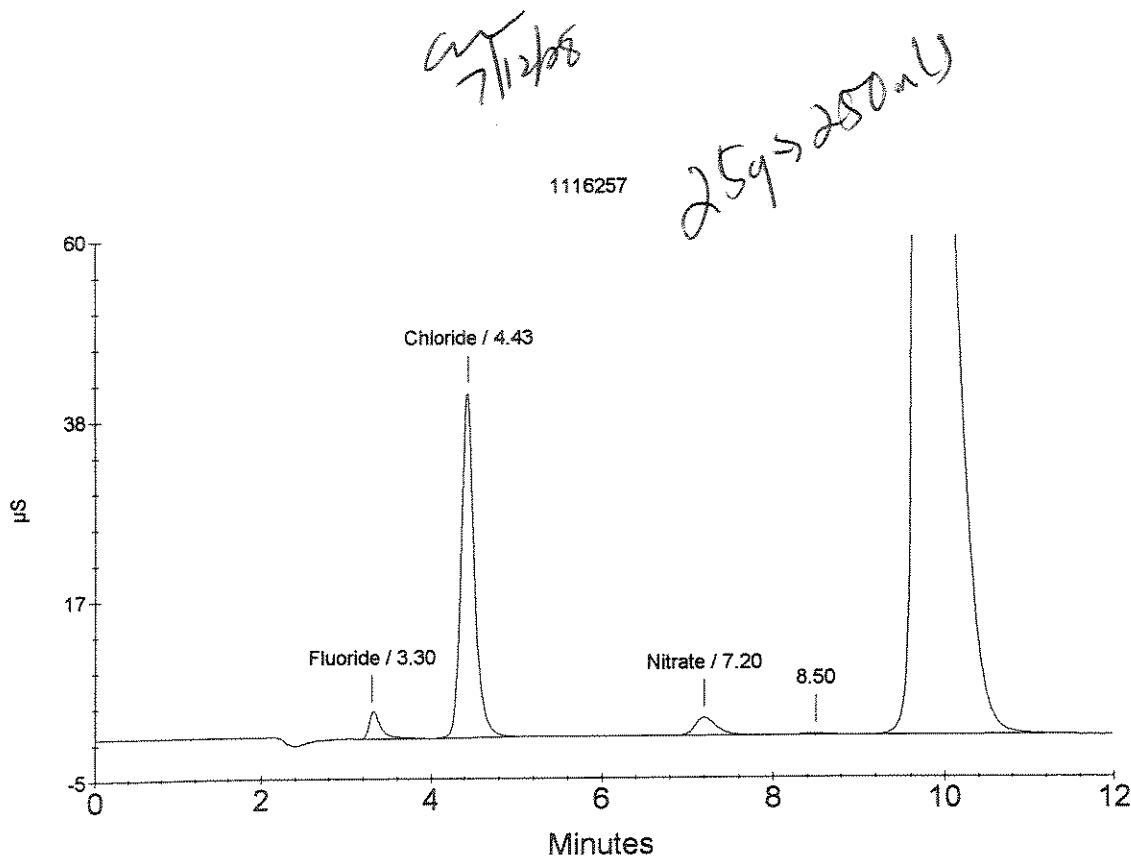
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.502	325873
2	4.43	Chloride	9.591	4521853
		Nitrite		
		Bromide		
3	7.20	Nitrate	0.402	362712
5	9.80	Sulfate	181.975	45289659



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\710_016.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 18:40:59

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

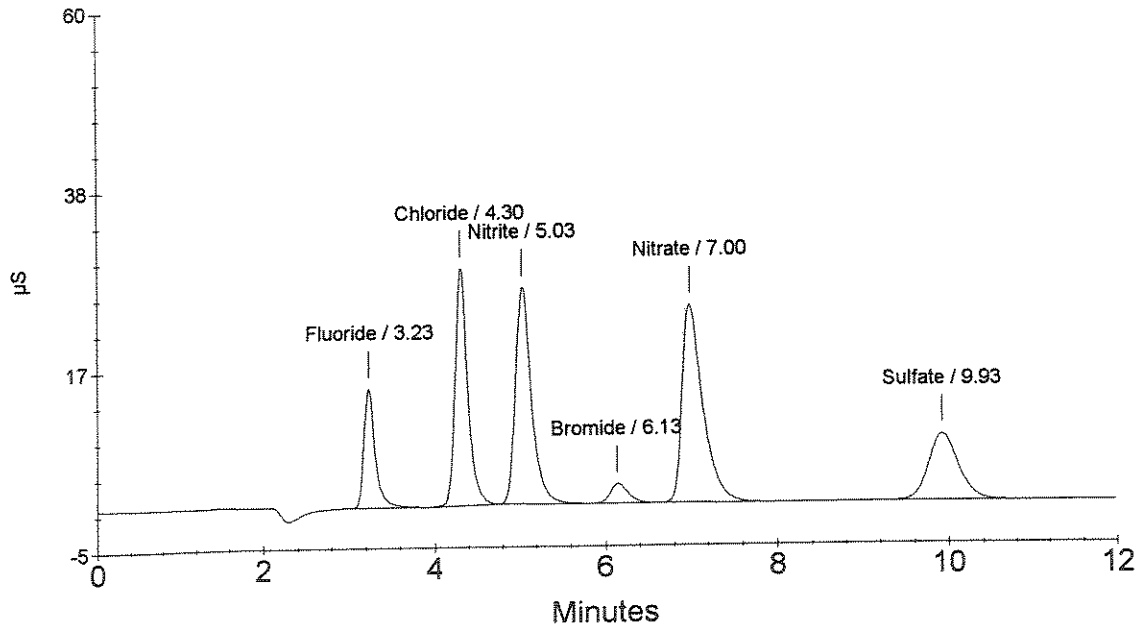
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	1.975	1282854
2	4.30	Chloride	6.316	2967610
3	5.03	Nitrite	3.710	3389410
4	6.13	Bromide	2.000	333952
5	7.00	Nitrate	3.635	4014897
6	9.93	Sulfate	7.690	1932392

OK
↓
CCV
7/12/08

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\710_017.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 18:55:19

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

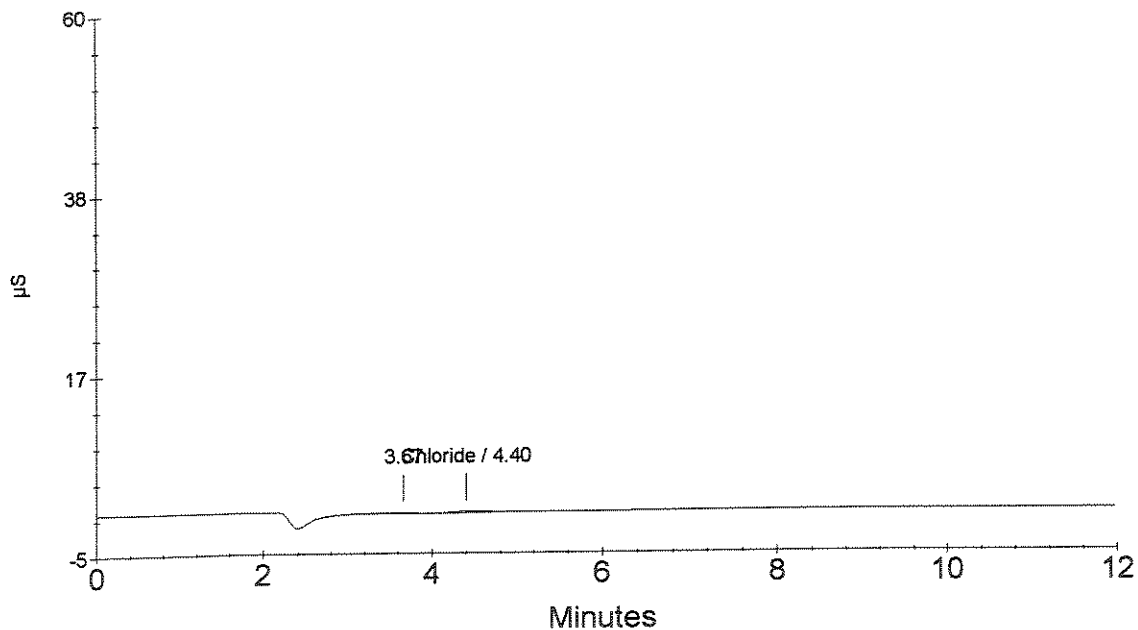
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.67		0.000	44585
2	4.40	Chloride Nitrite Bromide Nitrate Sulfate	0.168	50485

OK
↓
[Handwritten signature]
7/12/08
CCB



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116258
 Data File Name : ...\\710_018.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 19:09:39

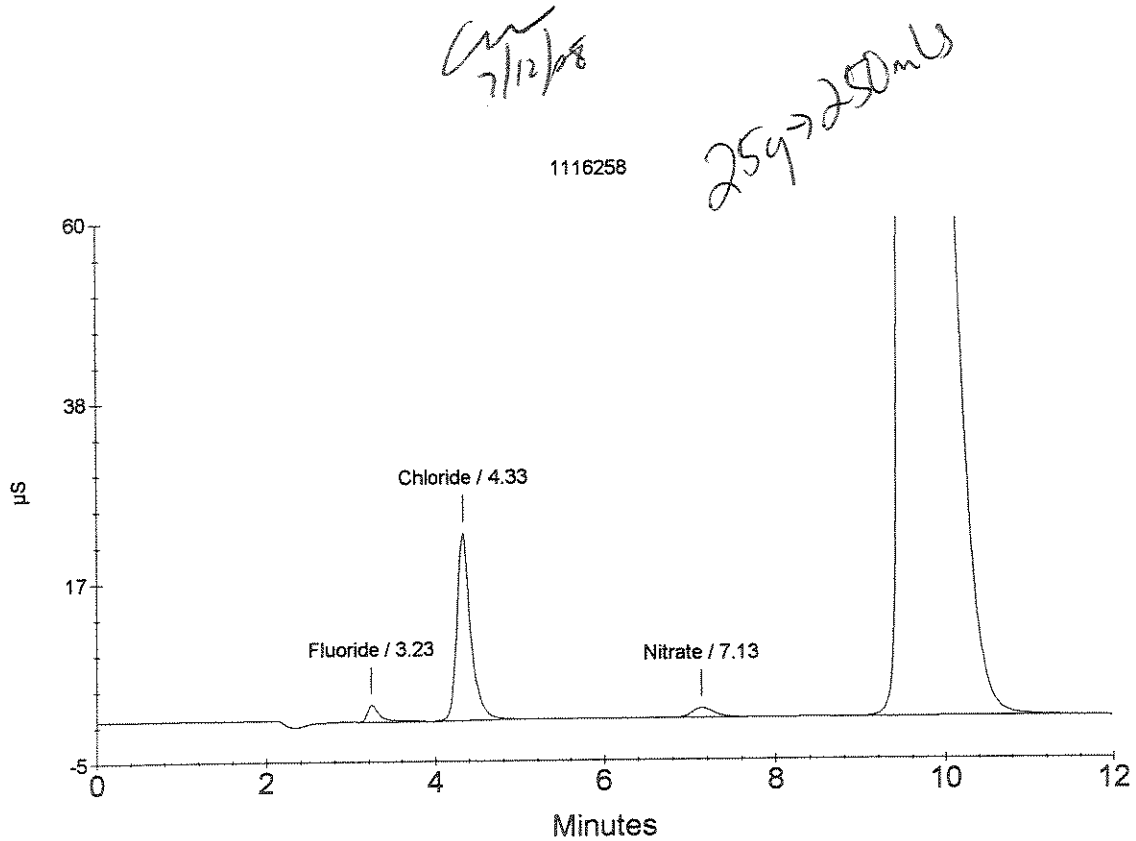
Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	0.351	228333
2	4.33	Chloride	5.484	2573034
		Nitrite		
		Bromide		
3	7.13	Nitrate	0.260	201714
4	9.63	Sulfate	317.975	79122800



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116264
Data File Name : ...\\710_019.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 19:23:58

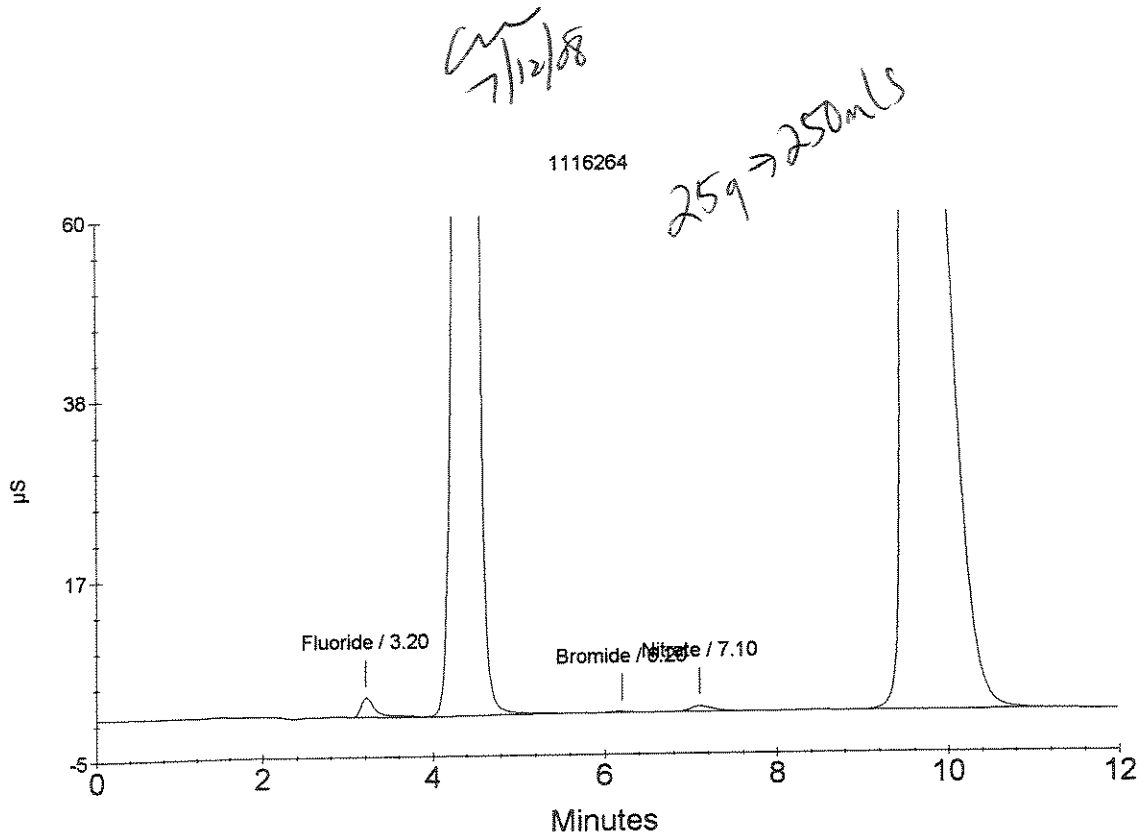
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.436	283423
2	4.47	Chloride Nitrite	80.028	37943971
3	6.20	Bromide	0.064	16989
4	7.10	Nitrate	0.181	112633
5	9.63	Sulfate	213.701	53182349



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116265
Data File Name : ...\\710_020.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 19:38:20

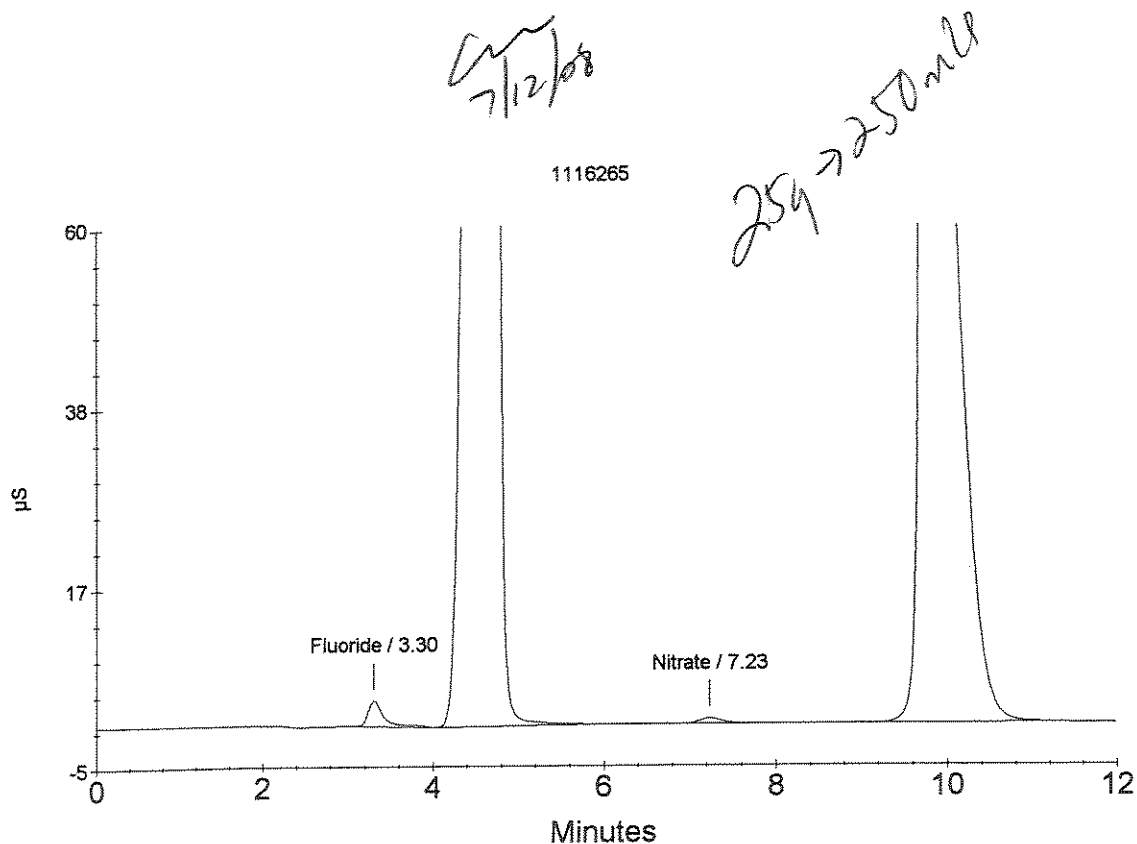
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.621	403235
2	4.67	Chloride Nitrite Bromide	156.296	74133709
3	7.23	Nitrate	0.178	109390
4	9.83	Sulfate	144.574	35985302



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116267
Data File Name : ...\\710_021.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 19:52:40

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

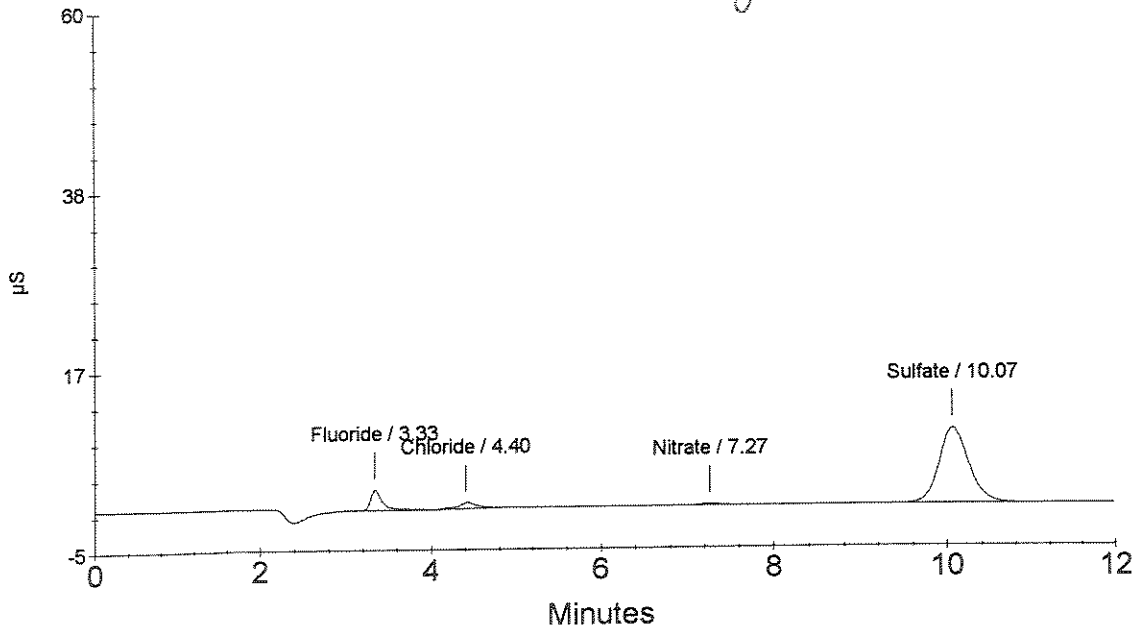
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	0.367	238708
2	4.40	Chloride	0.305	115560
		Nitrite		
		Bromide		
3	7.27	Nitrate	0.106	28304
4	10.07	Sulfate	8.547	2145469

OK
OK
OK
OK
7/12/08

259 → 250 mL



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116269
 Data File Name : ... \710_022.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/11/08 20:06:59

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

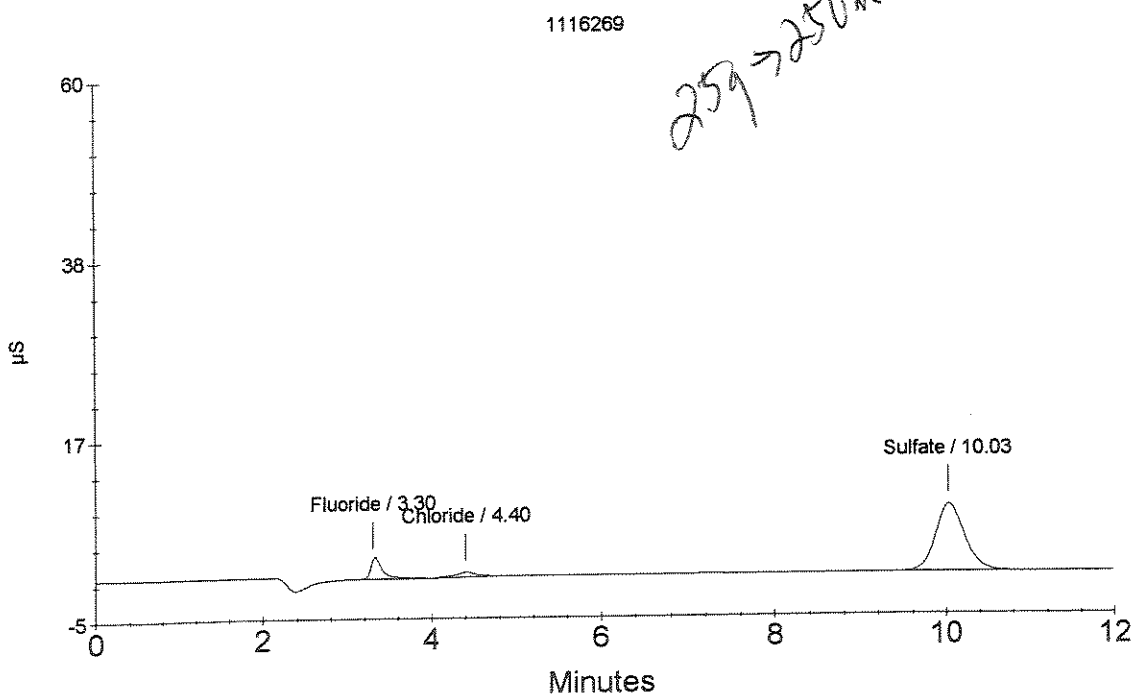
Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.383	248660
2	4.40	Chloride	0.273	100476
		Nitrite		
		Bromide		
		Nitrate		
3	10.03	Sulfate	7.673	1928092

7/12/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116271
Data File Name : ... \710_023.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/11/08 20:21:18

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

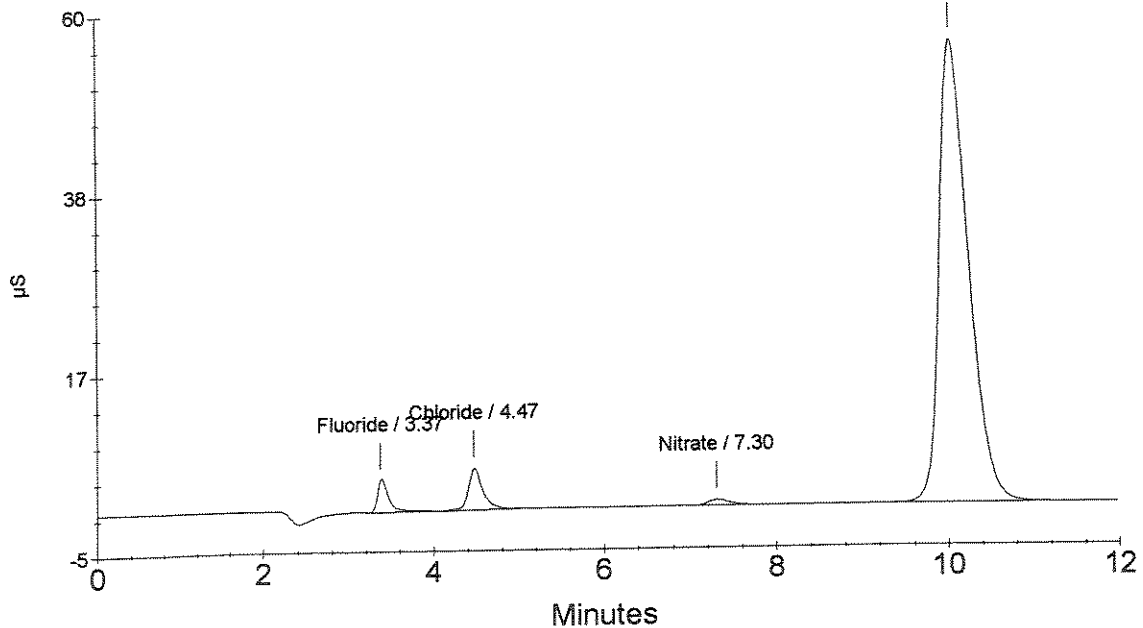
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.37	Fluoride	0.562	364923
2	4.47	Chloride	1.332	602997
		Nitrite		
		Bromide		
3	7.30	Nitrate	0.182	114263
4	10.07	Sulfate	52.896	13178279

OK
OK
OK
OK
1/20
7/12/08

259 → 250 mL



Ion Chromatography Analytical Report
Columbia Analytical Services
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Sample Name : 1116273
Data File Name : ...\\710_024.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 20:35:37

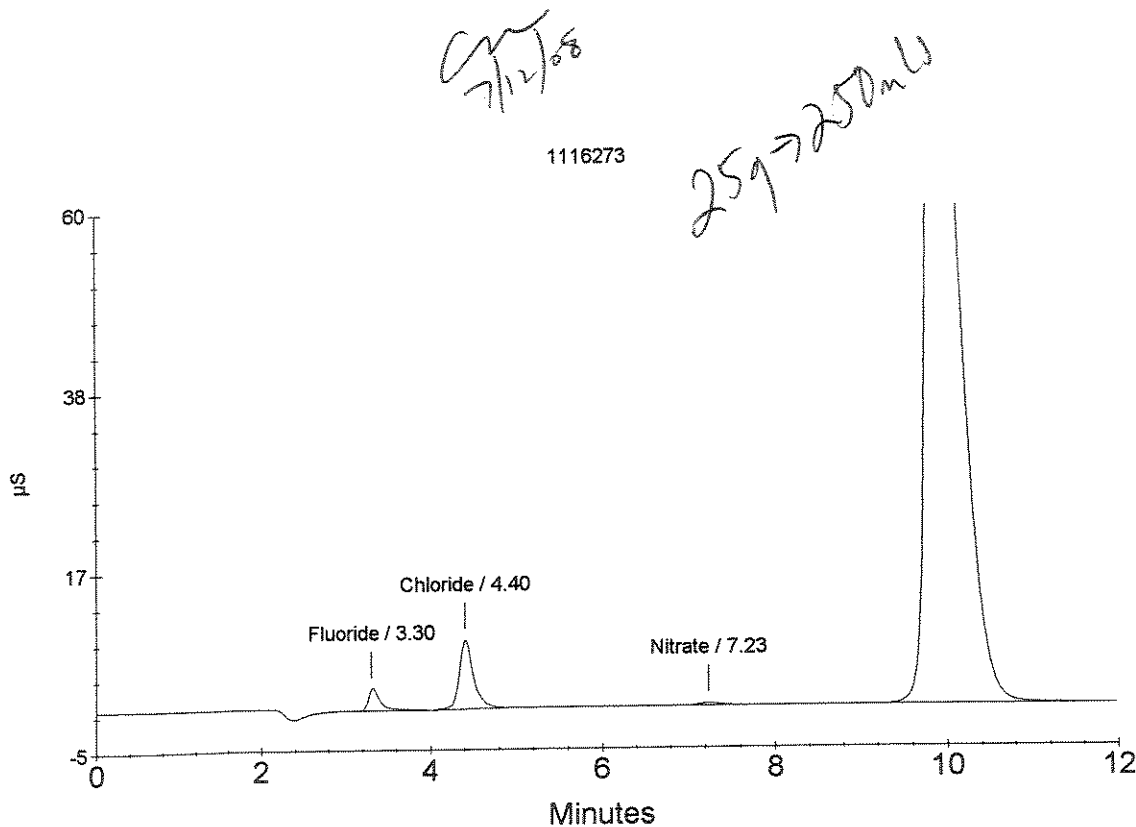
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.410	266347
2	4.40	Chloride	2.091	962732
		Nitrite		
		Bromide		
3	7.23	Nitrate	0.125	49282
4	9.93	Sulfate	106.810	26590797



Ion Chromatography Analytical Report
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Sample Name : 1116274
Data File Name : ...\\710_025.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 20:49:56

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

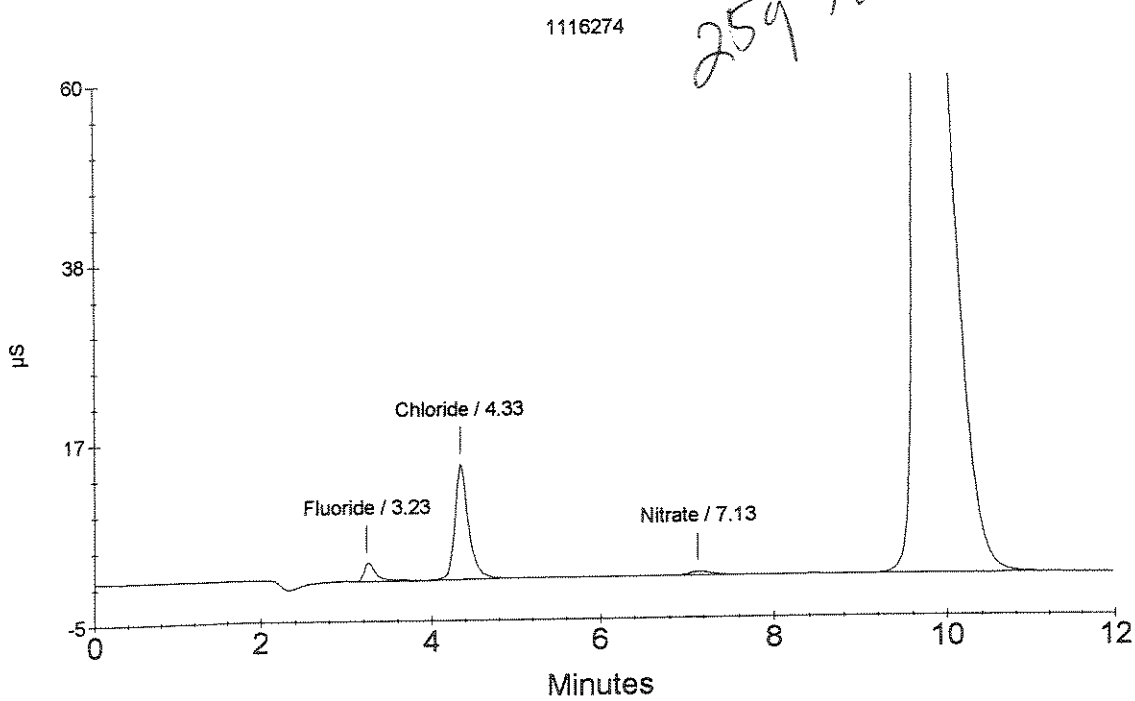
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	0.347	225321
2	4.33	Chloride	3.329	1550467
		Nitrite		
		Bromide		
3	7.13	Nitrate	0.150	78136
4	9.80	Sulfate	136.601	34002003

OK
OK
OK
OK
1/100
7/12/08

259 → 250mls



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116275
Data File Name : ...\\710_026.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 21:04:16

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

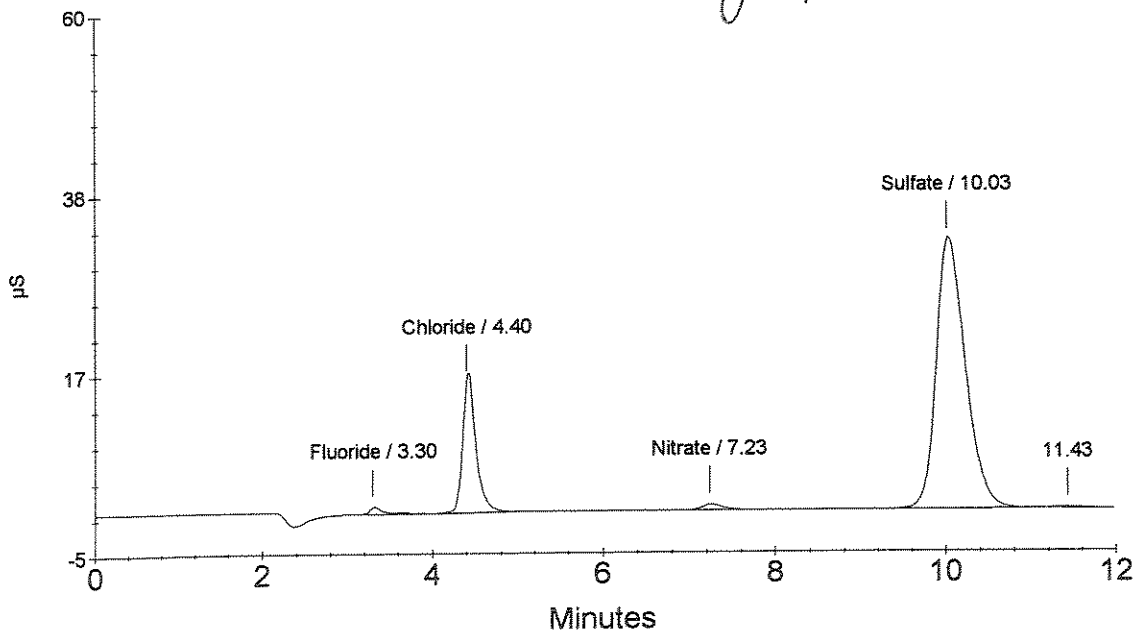
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.160	104048
2	4.40	Chloride	3.889	1816175
		Nitrite		
		Bromide		
3	7.23	Nitrate	0.185	117135
4	10.03	Sulfate	30.929	7713662

Handwritten:
7/12/08
1116275
259 → 250mls



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116276
Data File Name : ...\\710_027.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 21:18:36

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

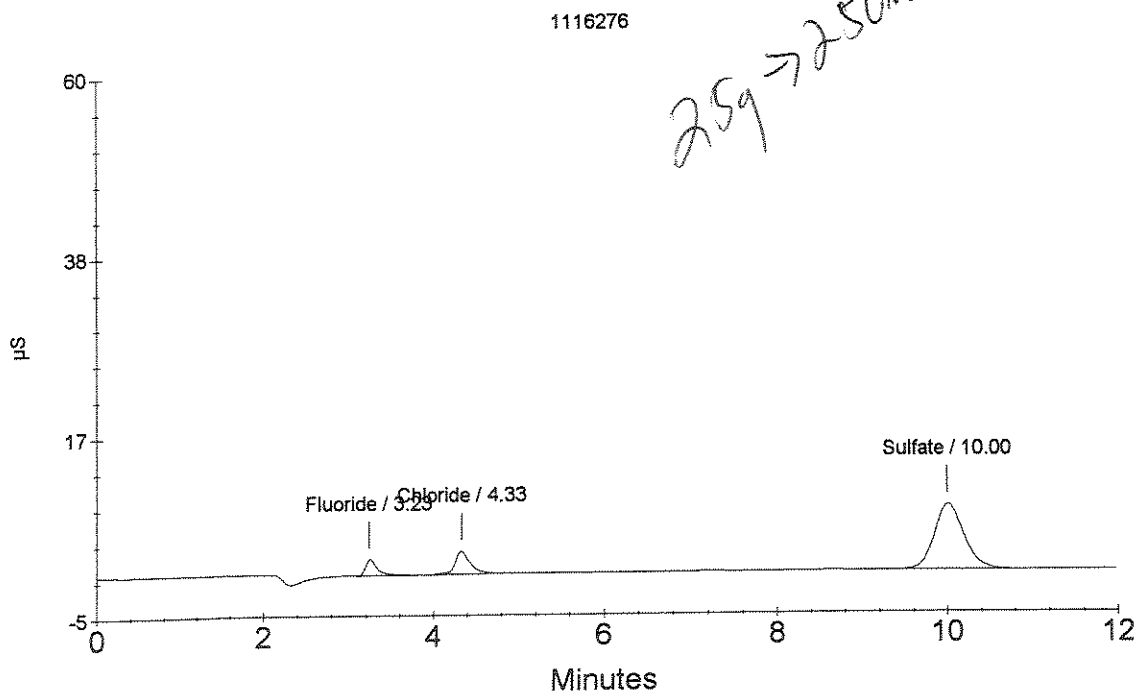
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	0.300	195032
2	4.33	Chloride Nitrite Bromide Nitrate	0.782	341916
3	10.00	Sulfate	7.558	1899481

OK
OK
OK
OK
7/12/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\710_028.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 21:32:57

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

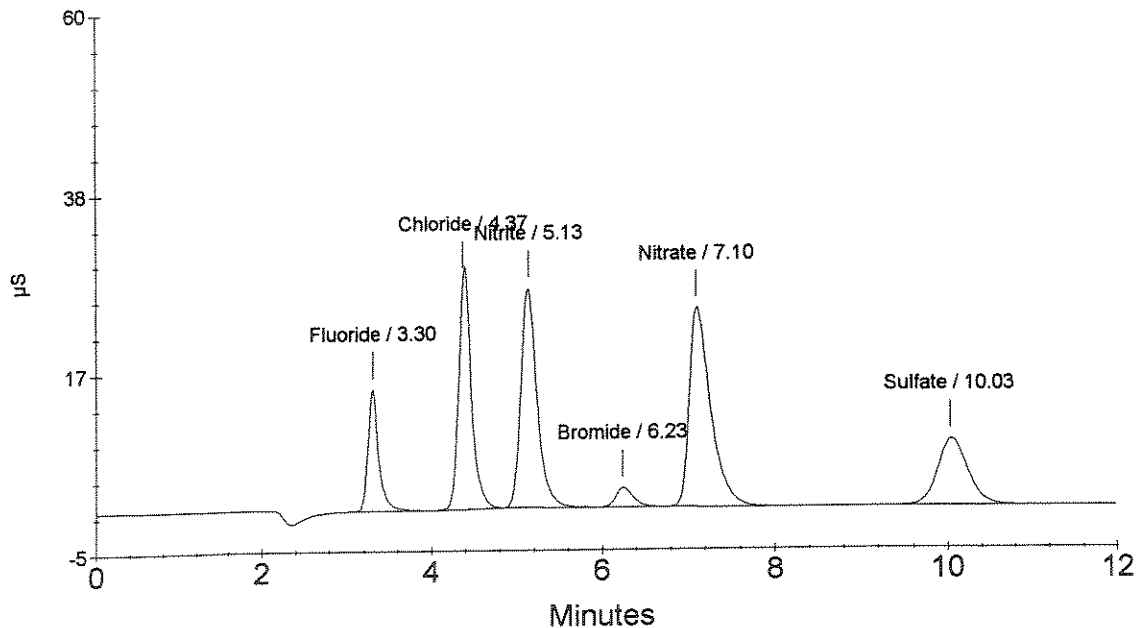
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	2.015	1308525
2	4.37	Chloride	6.402	3008520
3	5.13	Nitrite	3.740	3416564
4	6.23	Bromide	2.008	335278
5	7.10	Nitrate	3.691	4078298
6	10.03	Sulfate	7.699	1934651

OK
↓
7/12/08

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\710_029.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 21:47:16

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

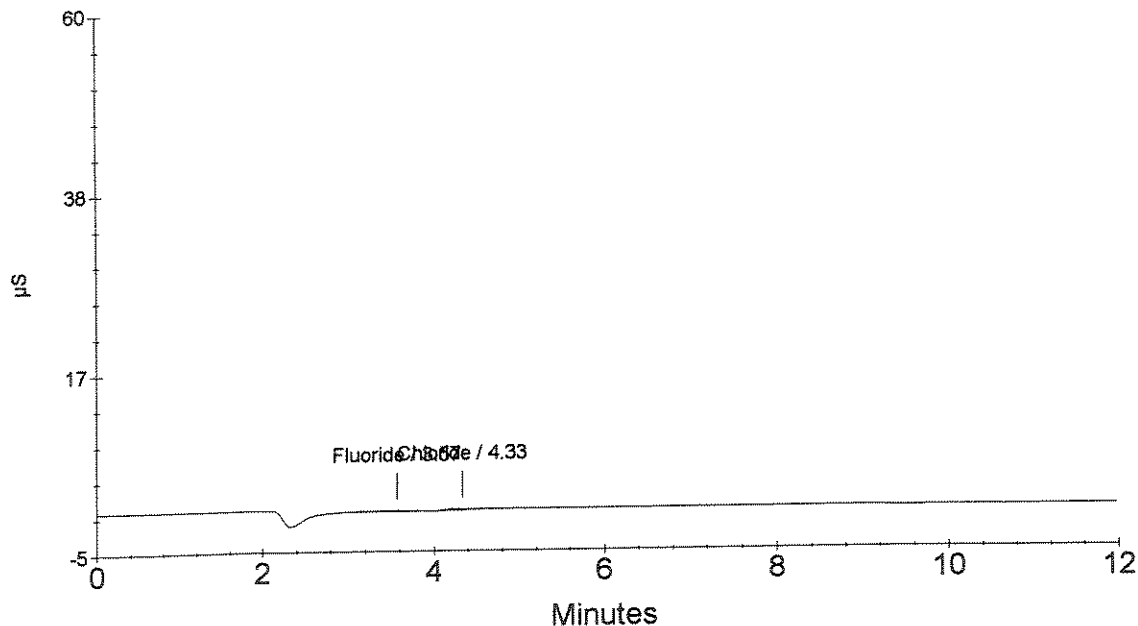
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.57	Fluoride	0.053	34869
2	4.33	Chloride	0.131	33106
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
↓
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7/12/08

CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\\710_030.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 22:01:36

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

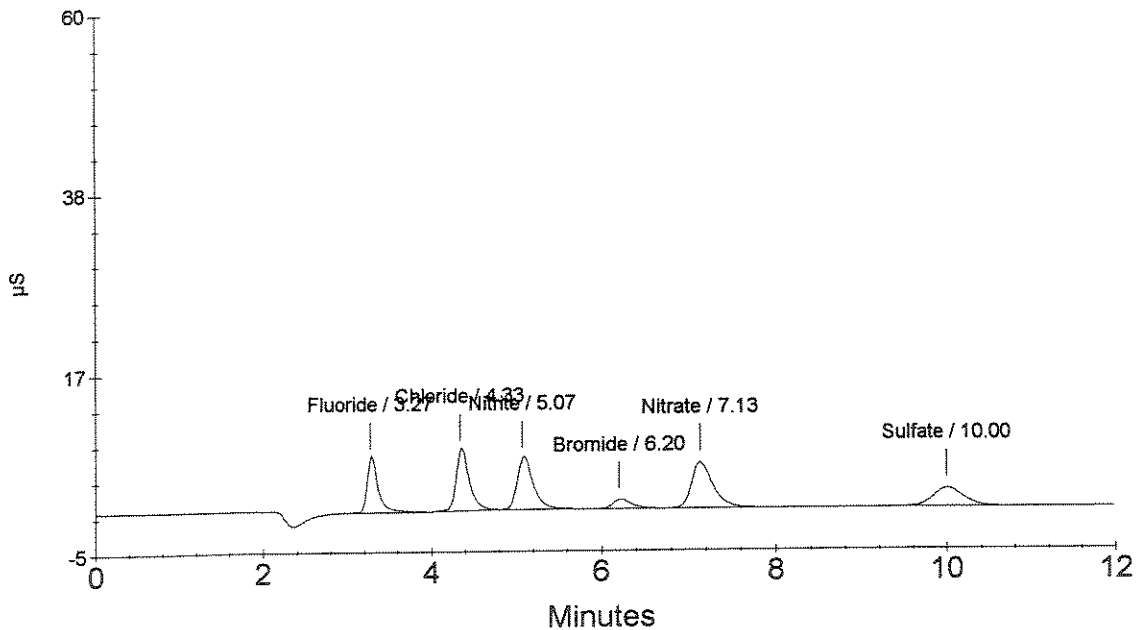
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.947	615164
2	4.33	Chloride	1.799	824562
3	5.07	Nitrite	0.930	822988
4	6.20	Bromide	0.950	162126
5	7.13	Nitrate	0.911	937933
6	10.00	Sulfate	2.098	541253

OK
↓
7/12/08

LCS



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : 1116277
Data File Name : ...\\710_031.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 22:15:55

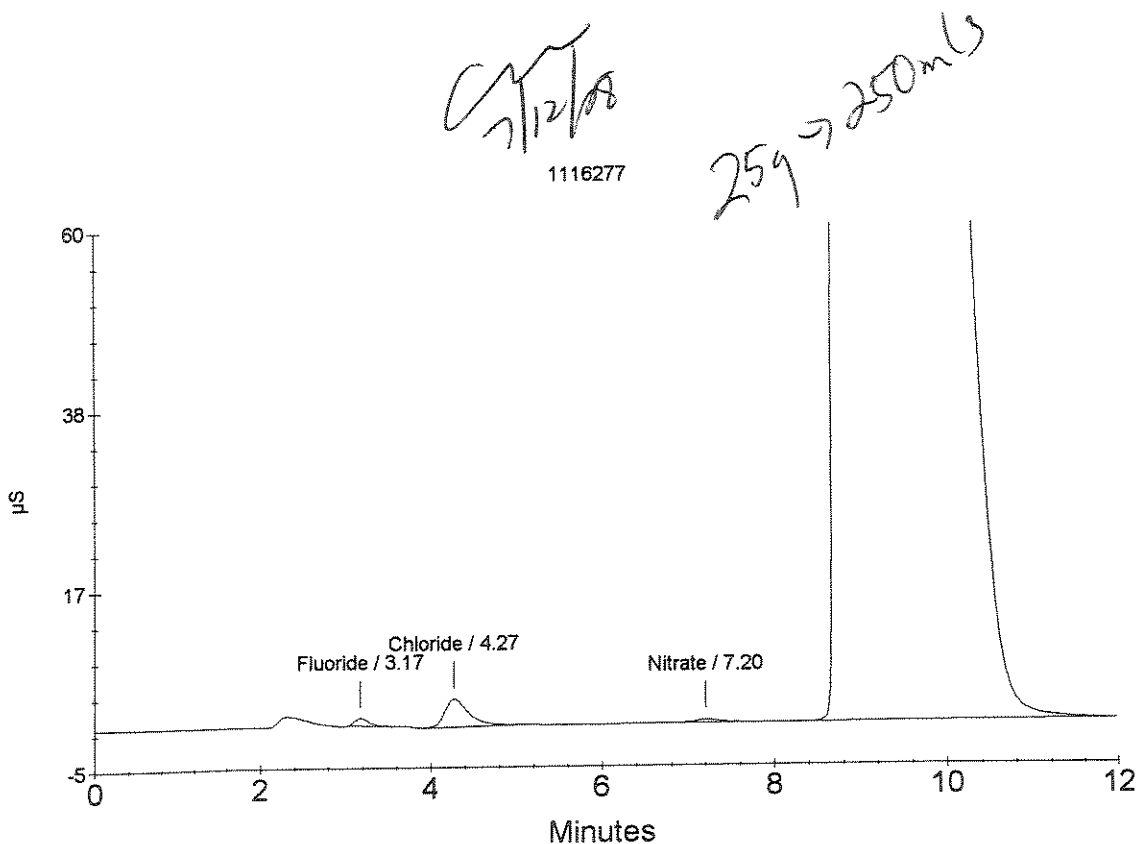
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.153	99238
2	4.27	Chloride	1.464	665338
		Nitrite		
		Bromide		
3	7.20	Nitrate	0.134	59607
4	8.90	Sulfate	1759.784	437806279



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116278
Data File Name : ...\\710_032.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 22:30:15

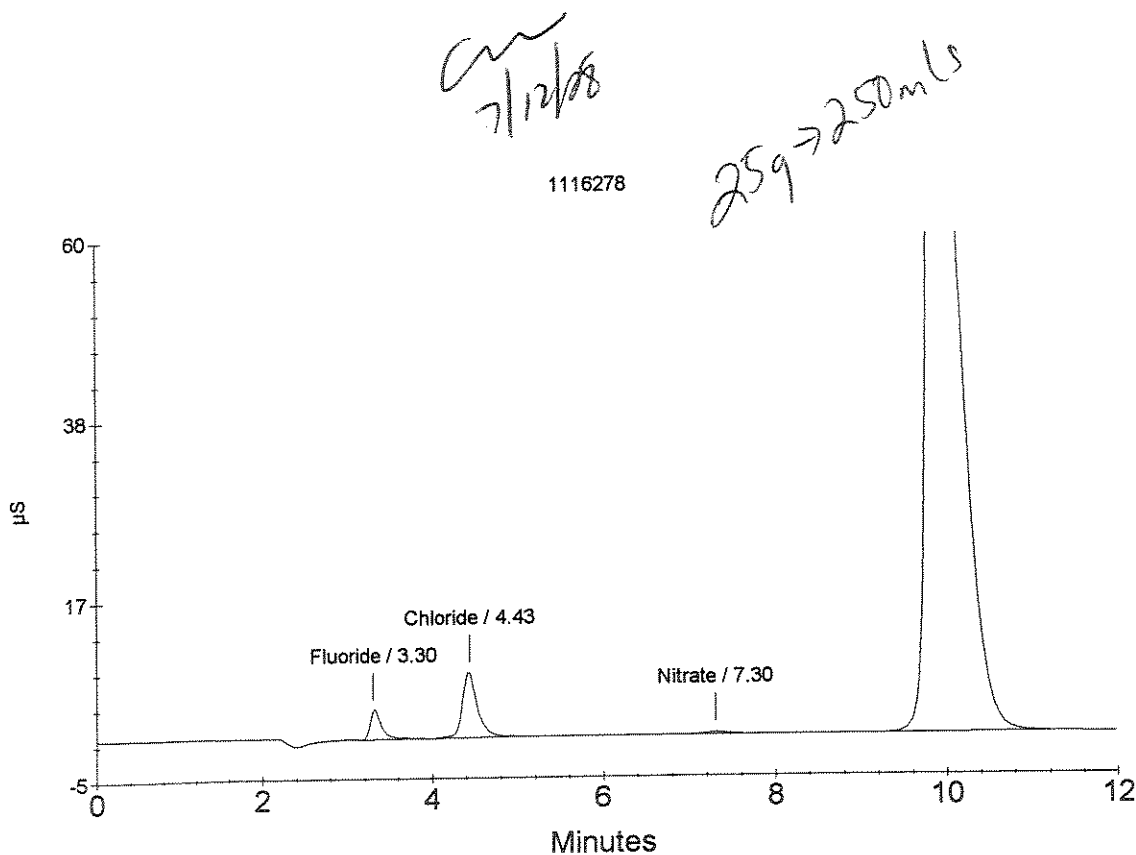
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.538	349792
2	4.43	Chloride	2.058	947372
		Nitrite		
		Bromide		
3	7.30	Nitrate	0.118	41735
4	9.93	Sulfate	108.166	26928169



Ion Chromatography Analytical Report
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Sample Name : 1116279
 Data File Name : ...\\710_033.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 22:44:34

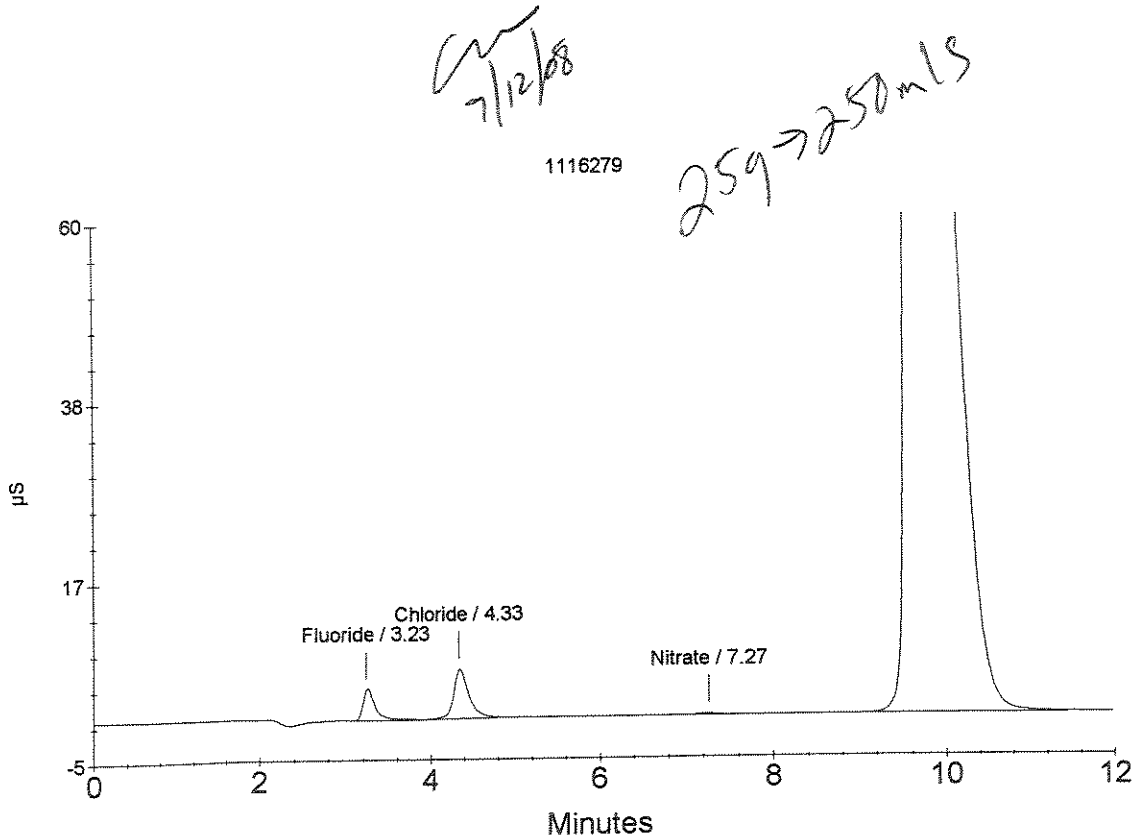
Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: CBNN

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	0.583	378894
2	4.33	Chloride	1.665	761029
		Nitrite		
		Bromide		
3	7.27	Nitrate	0.101	22649
4	9.70	Sulfate	249.942	62198098



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115724
Data File Name : ...\\710_034.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 22:58:53

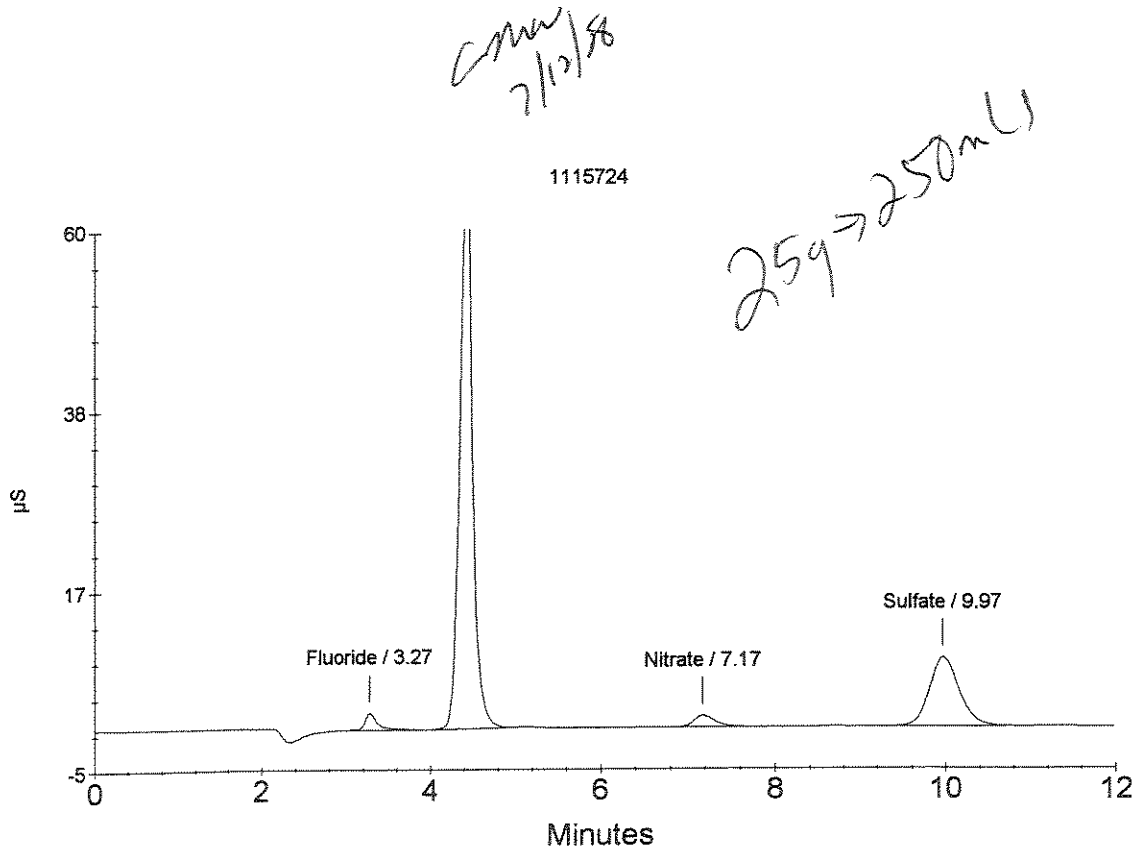
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.330	214154
2	4.40	Chloride Nitrite Bromide	14.997	7086863
3	7.17	Nitrate	0.288	233513
4	9.97	Sulfate	7.971	2002320



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115725
Data File Name : ...\\710_035.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 23:13:13

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

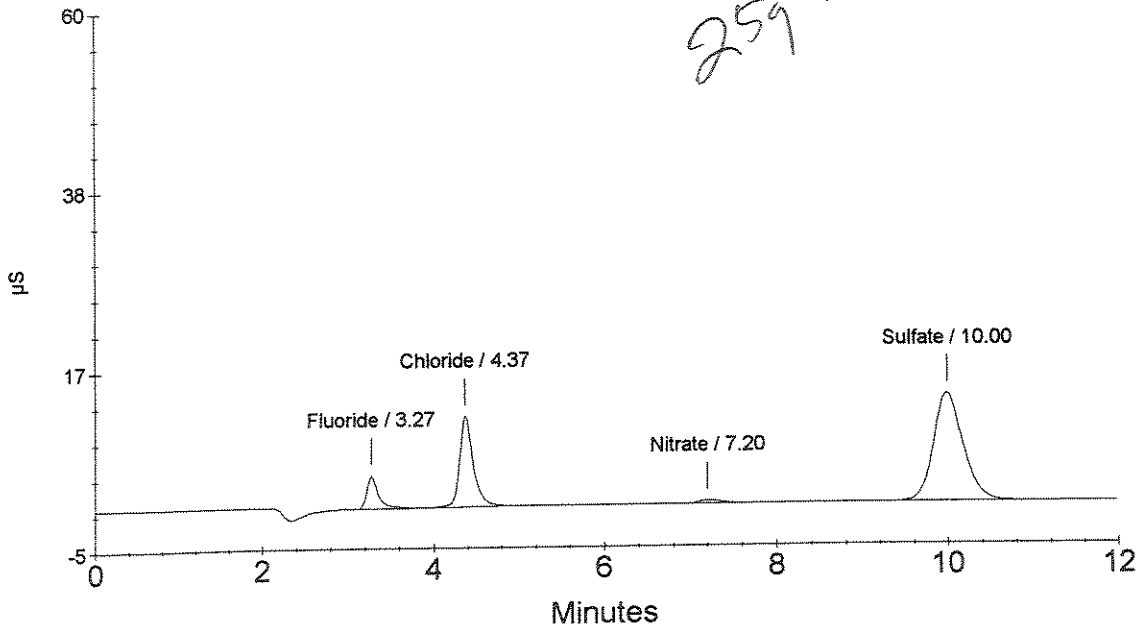
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.565	367270
2	4.37	Chloride	2.650	1228191
		Nitrite		
		Bromide		
3	7.20	Nitrate	0.141	68125
4	10.00	Sulfate	12.470	3121454

OK
7/12/08

1115725

259 → 250ml



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115726
Data File Name : ...\\710_036.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/11/08 23:27:35

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

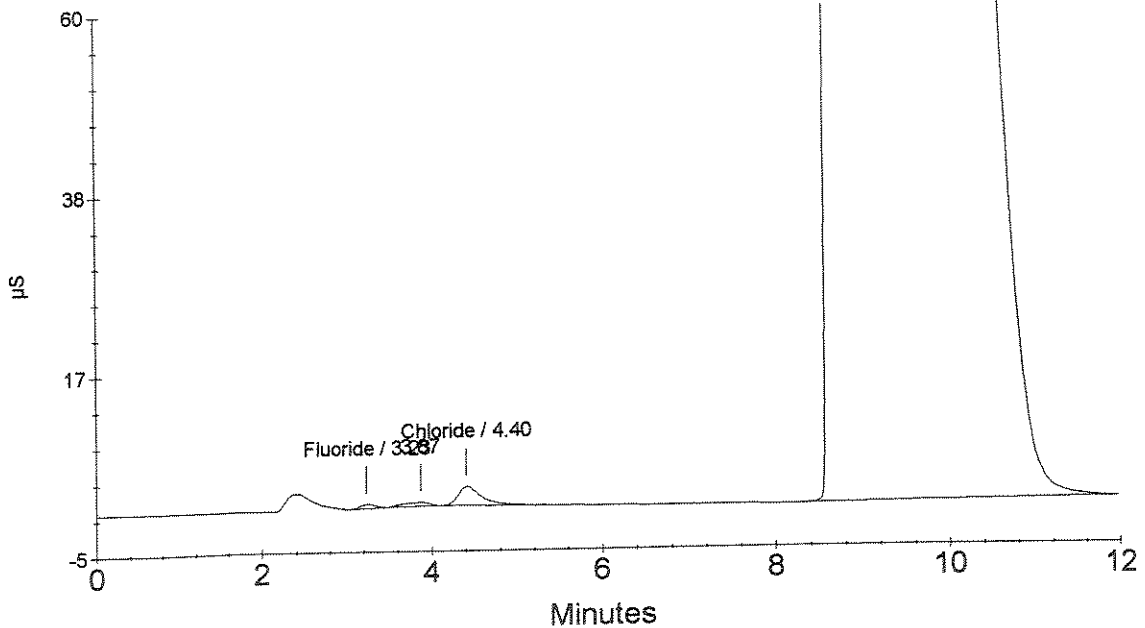
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	0.093	60786
3	4.40	Chloride Nitrite Bromide Nitrate	0.971	431709
4	8.80	Sulfate	2628.186	653841360

OK

7/12/08

25g → 250mL

1115726



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115727
 Data File Name : ...\\710_037.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 23:41:55

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

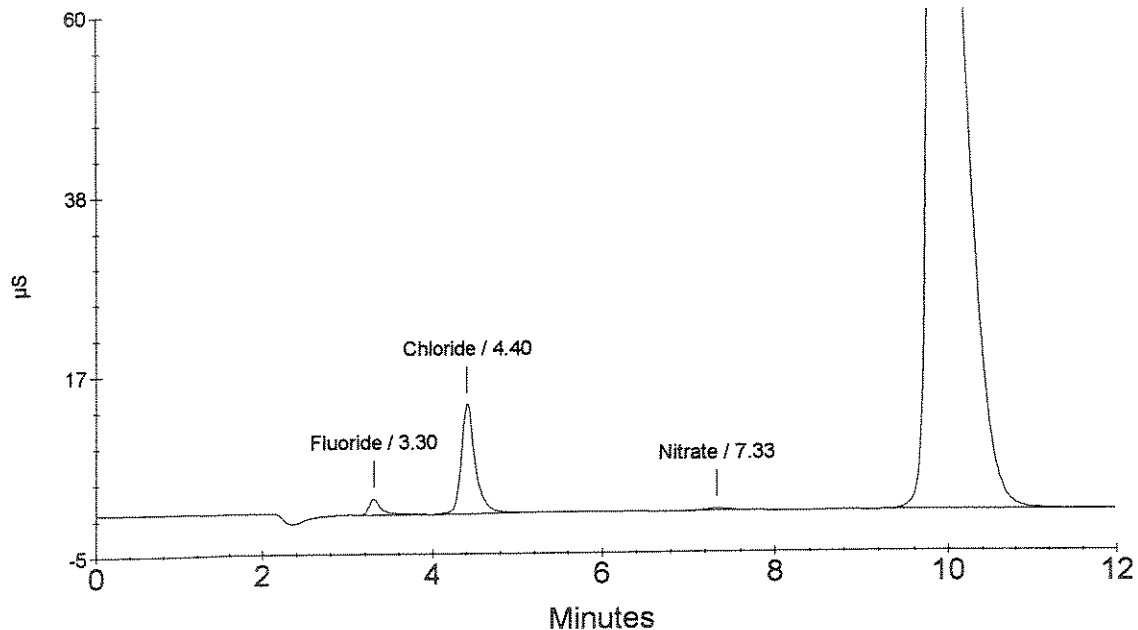
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.314	203888
2	4.40	Chloride	3.272	1523332
		Nitrite		
		Bromide		
3	7.33	Nitrate	0.122	46027
4	9.93	Sulfate	137.341	34186057

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 7/11/08

Handwritten note: 259 → 250 mL

1115727



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115730
 Data File Name : ...\\710_038.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/11/08 23:56:15

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

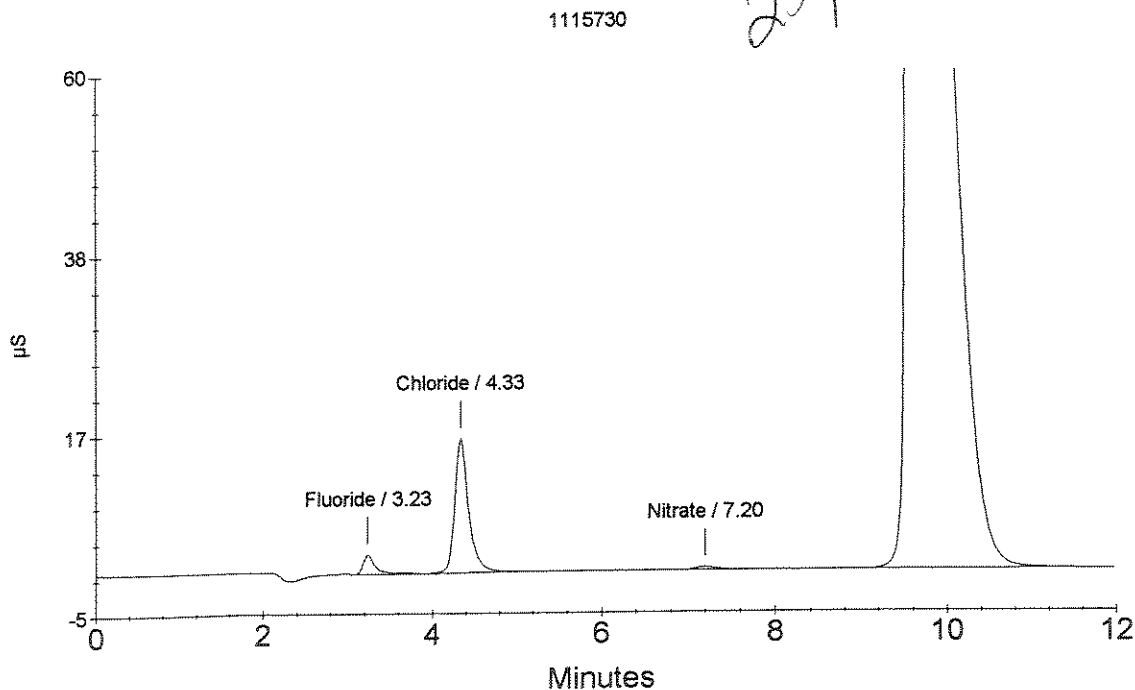
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.23	Fluoride	0.373	242629
2	4.33	Chloride	3.944	1842158
		Nitrite		
		Bromide		
3	7.20	Nitrate	0.134	59667
4	9.70	Sulfate	229.519	57117568

OK

7/12/08

259 → 250 ml



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115731
 Data File Name : ...\\710_039.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/12/08 00:10:36

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

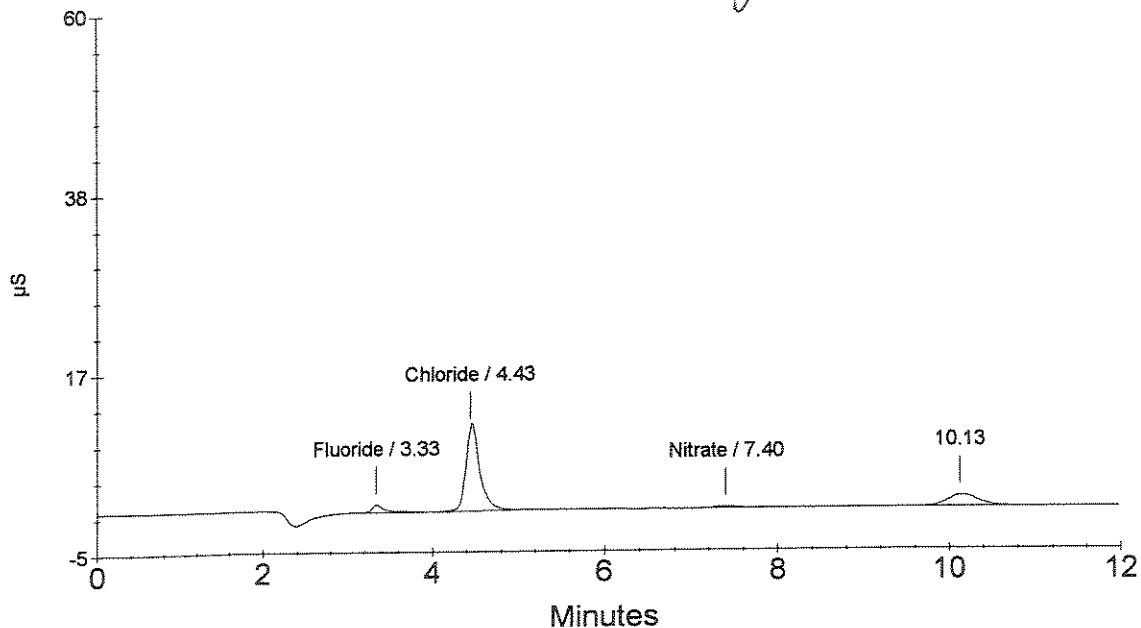
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	0.179	116287
2	4.43	Chloride	2.533	1172563
3	7.40	Nitrite	0.109	31832
		Bromide		
		Nitrate Sulfate		

OK

7/12/08

1115731

259 → 250 ml



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115732
Data File Name : ... \710_040.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/12/08 00:24:56

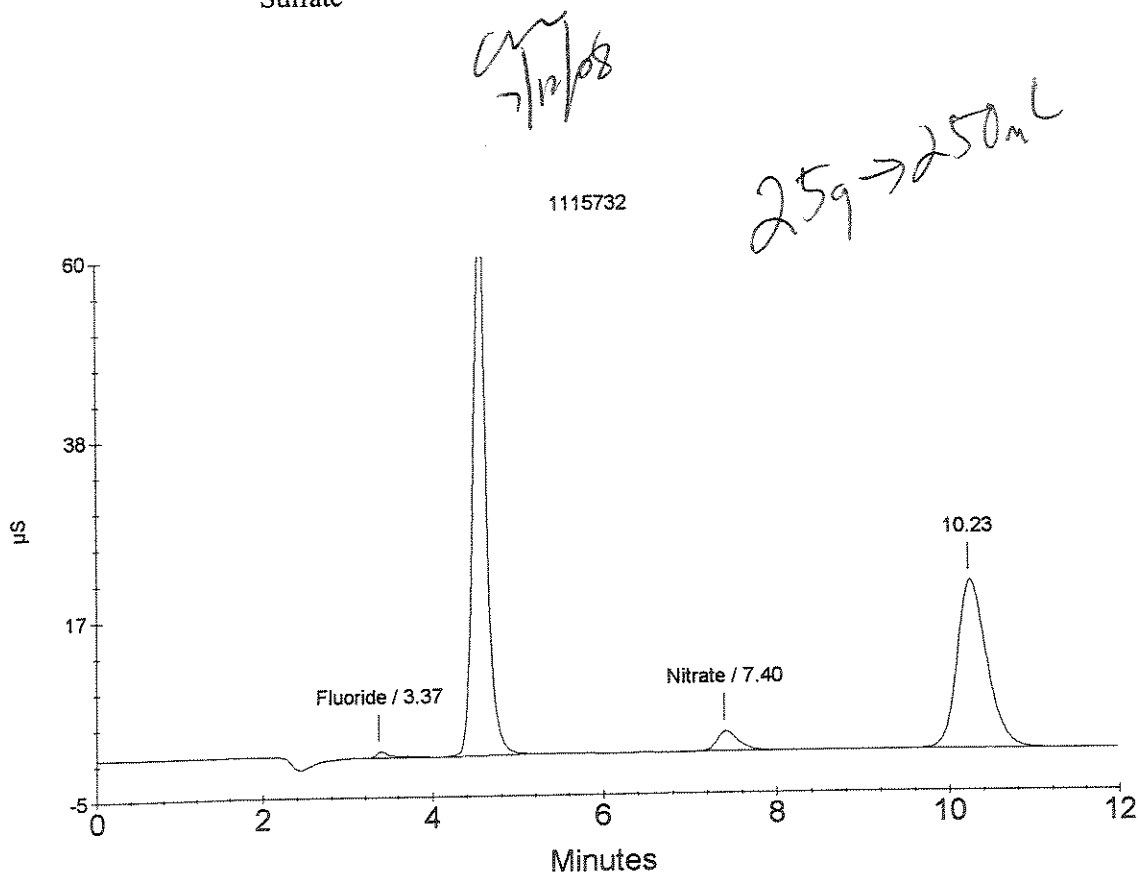
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.37	Fluoride	0.144	93851
2	4.53	Chloride Nitrite Bromide	14.966	7071947
3	7.40	Nitrate Sulfate	0.452	418758



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCV
 Data File Name : ...\\710_041.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/12/08 00:39:15


Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

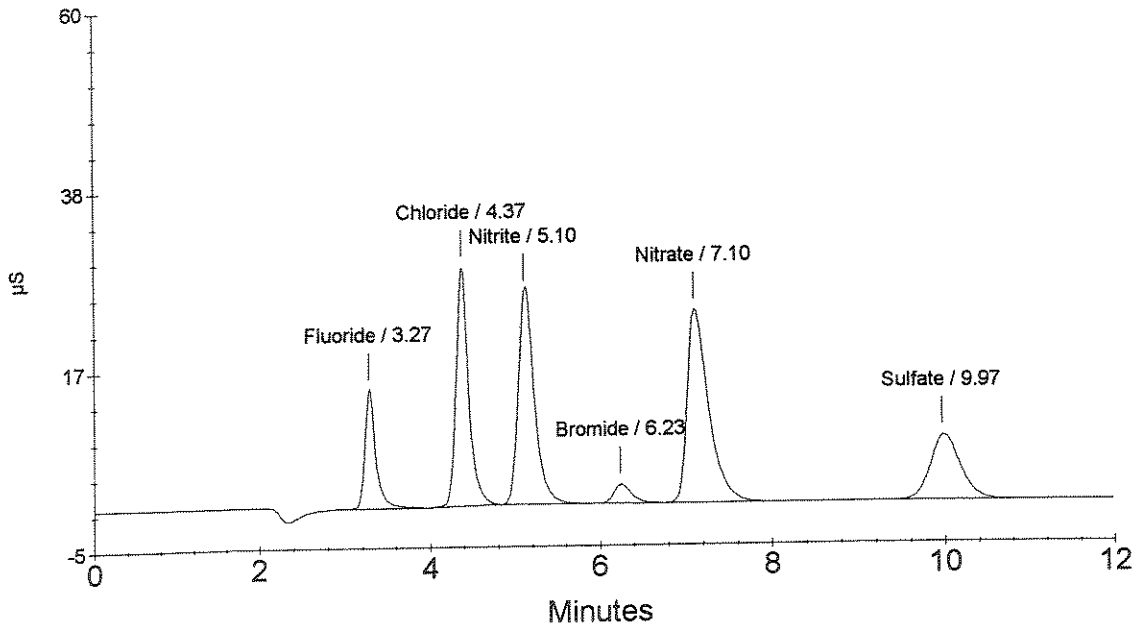
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	1.986	1289855
2	4.37	Chloride	6.282	2951643
3	5.10	Nitrite	3.719	3397604
4	6.23	Bromide	1.970	329024
5	7.10	Nitrate	3.609	3985250
6	9.97	Sulfate	7.622	1915465

OK

CCV
7/12/08

CCV



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCB
 Data File Name : ...\\710_042.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/12/08 00:53:34

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

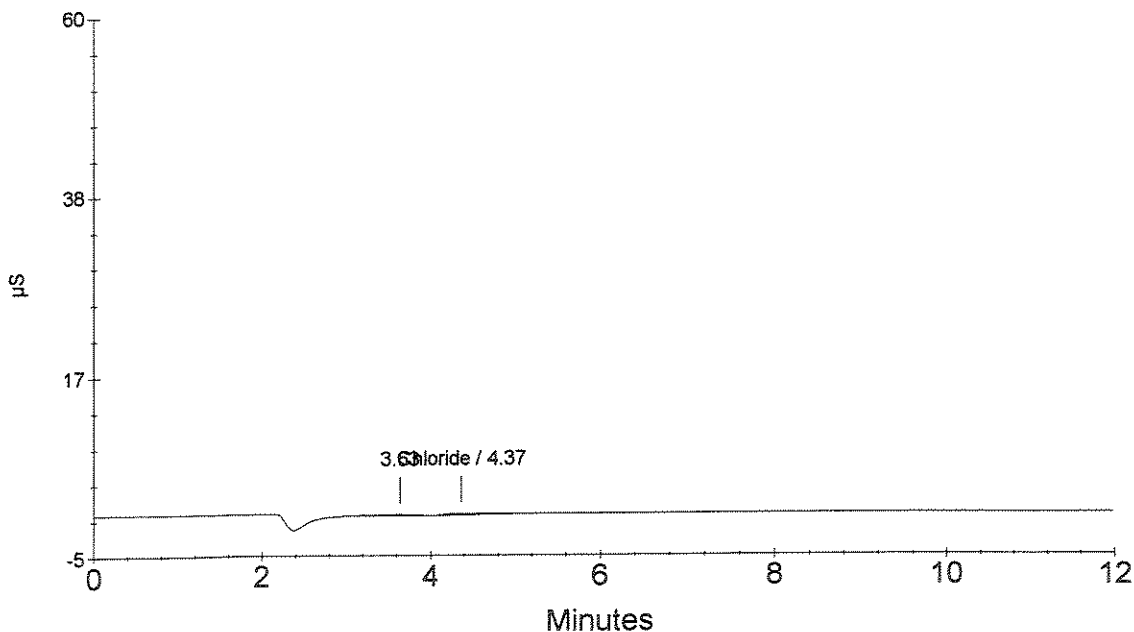
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.63		0.000	39829
2	4.37	Chloride Nitrite Bromide Nitrate Sulfate	0.163	47964

OK
 ↓
CW
7/12/08

CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115733
Data File Name : ...\\710_043.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 01:07:53

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

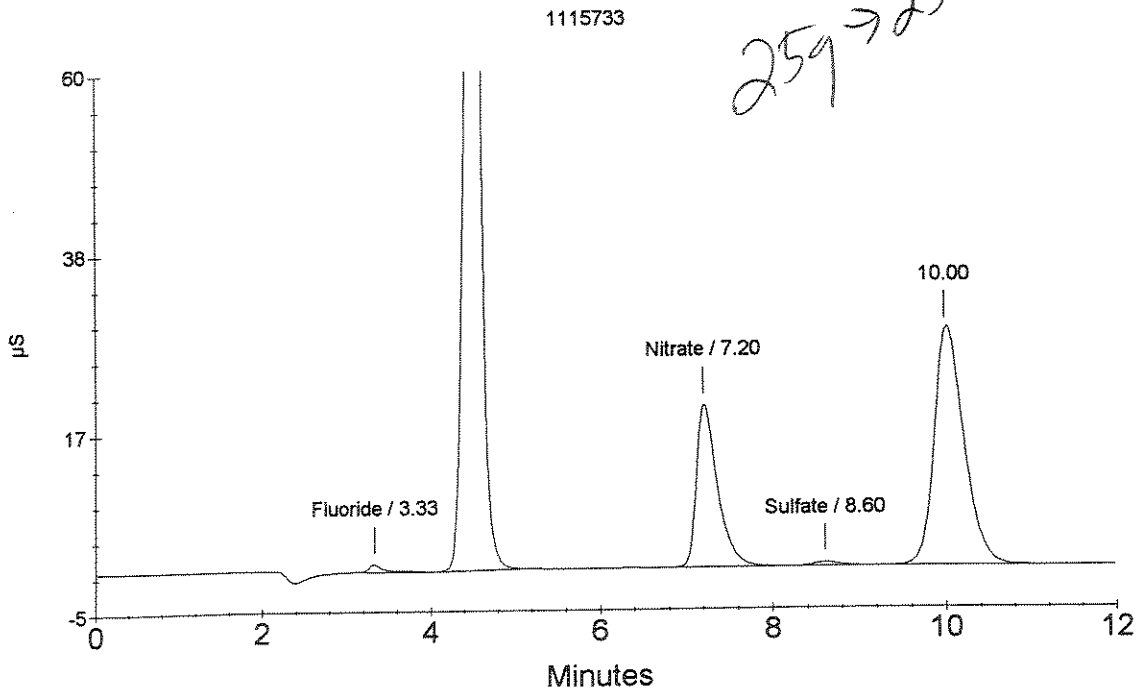
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	0.182	118402
2	4.50	Chloride Nitrite Bromide	35.924	17016773
3	7.20	Nitrate	3.043	3346136
4	8.60	Sulfate	0.283	89645

OK
7/12/08

259 → 250ml



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115734
Data File Name : ...\\710_044.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 01:22:12

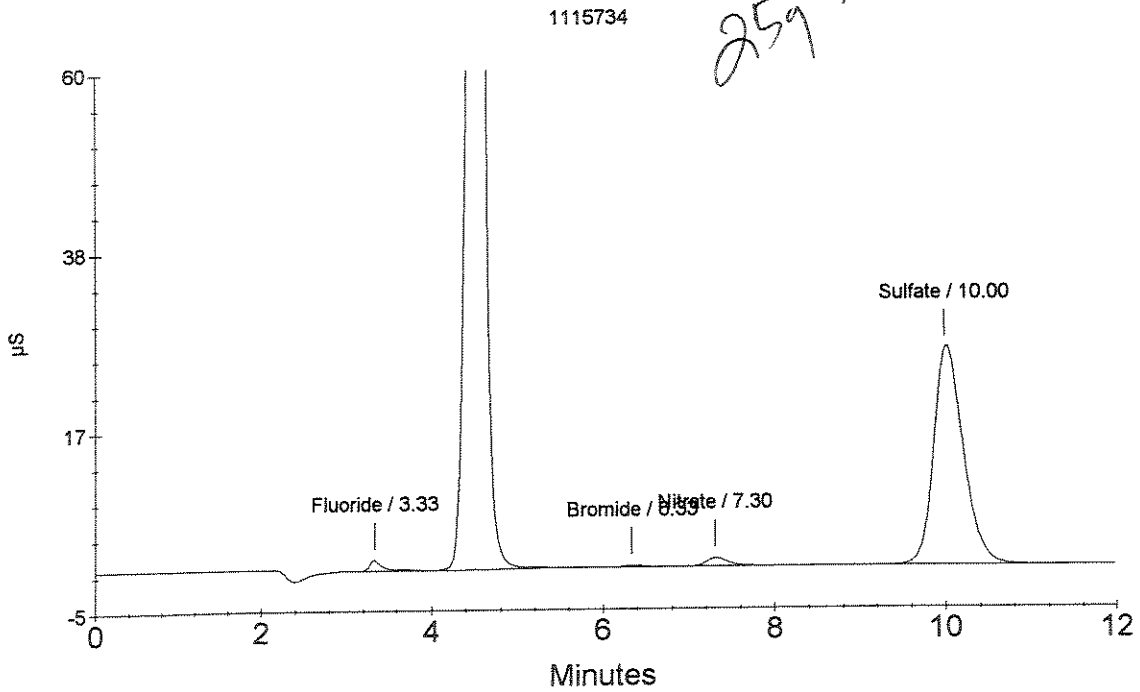
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	0.229	149025
2	4.53	Chloride Nitrite	46.235	21909253
3	6.33	Bromide <i>OK</i>	0.116	25475
4	7.30	Nitrate	0.227	164978
5	10.00	Sulfate	25.057	6252694



Ion Chromatography Analytical Report
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Sample Name : 1115735
Data File Name : ...\\710_045.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 01:36:32

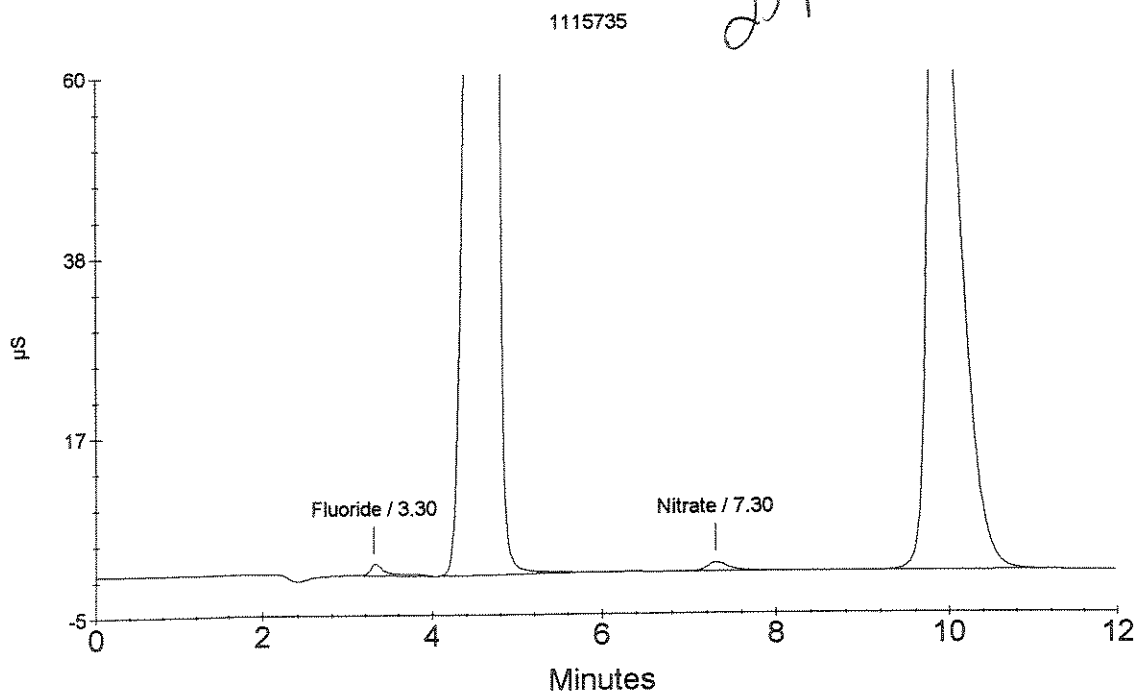
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.298	193561
2	4.67	Chloride Nitrite Bromide	131.376	62309129
3	7.30	Nitrate	0.236	175527
4	9.90	Sulfate	91.264	22723216



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : 1115736
Data File Name : ... \710_046.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/12/08 01:50:51

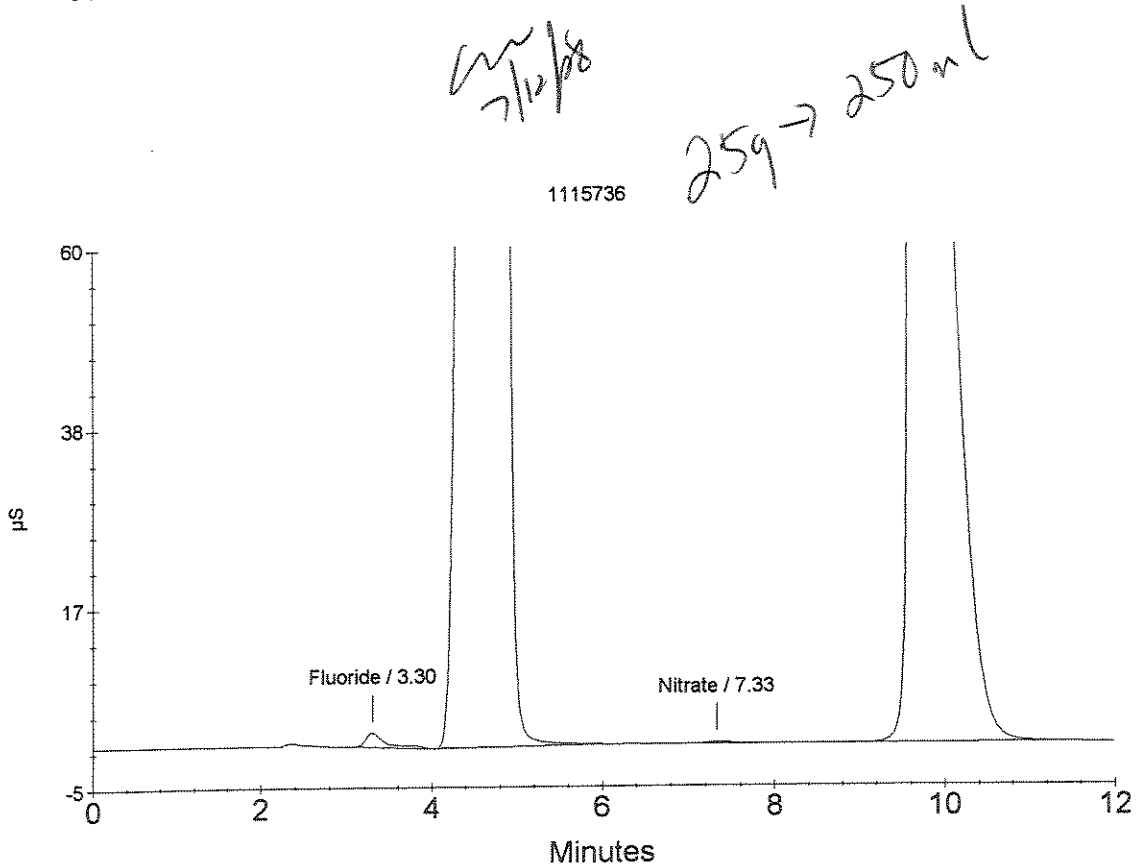
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride Chloride	0.448	290938
2	4.83	Nitrite Bromide <i>OK</i>	137.762	127148461
3	7.33	Nitrate	0.110	32782
4	9.77	Sulfate	212.863	52973928



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115737
Data File Name : ...\\710_047.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 02:05:09

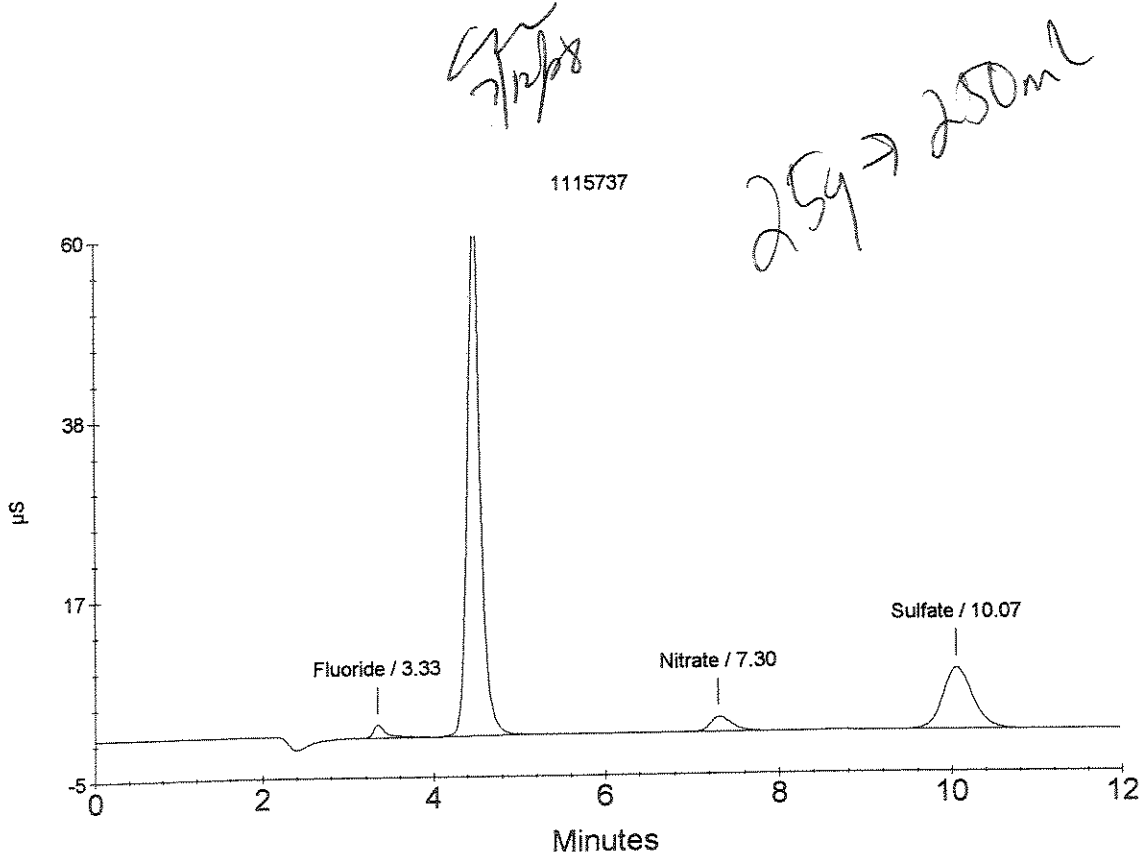
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	0.254	165379
2	4.47	Chloride Nitrite Bromide	13.817	6526972
3	7.30	Nitrate	0.354	308848
4	10.07	Sulfate	7.135	1794270



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115738
 Data File Name : ...\\710_048.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/12/08 02:19:31

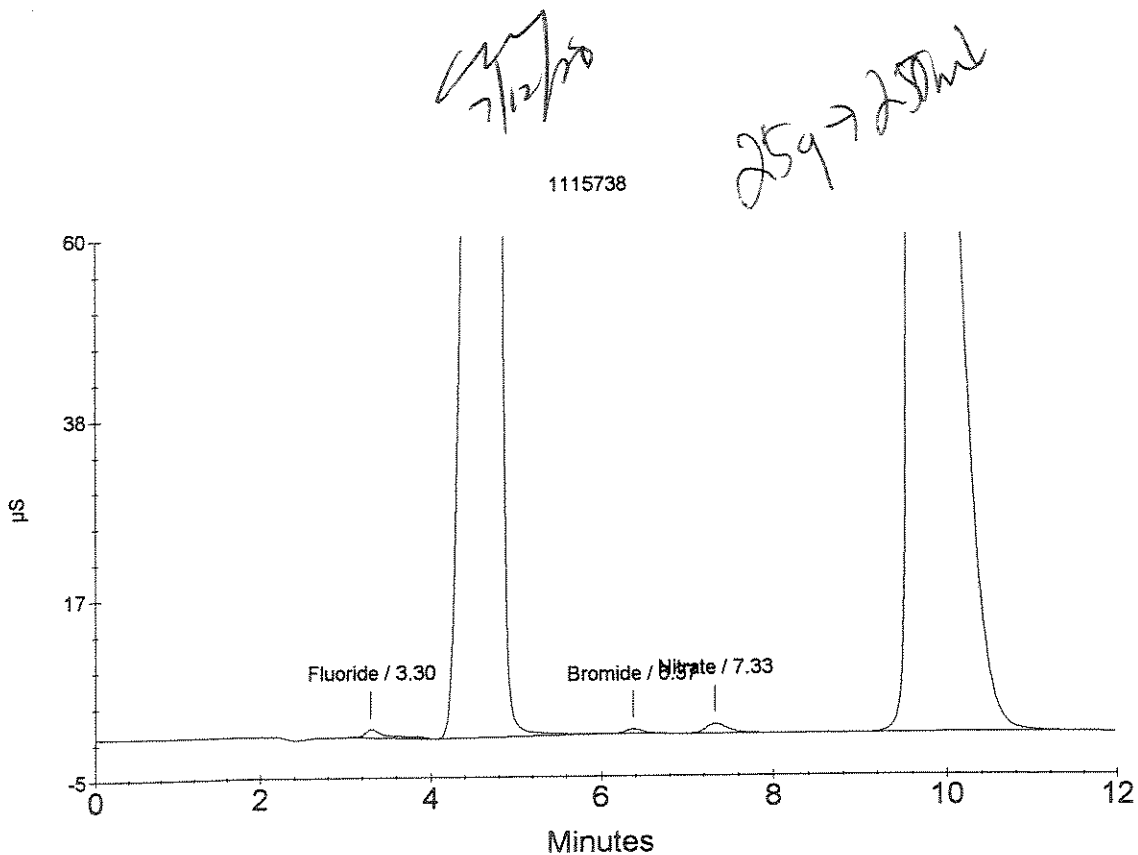
Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride Chloride	0.287	186846
2	4.73	Nitrite	89.160	82277943
3	6.37	Bromide <i>OK</i>	0.441	78673
4	7.33	Nitrate	0.259	201465
5	9.73	Sulfate	259.738	64635221



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : 1115739
Data File Name : ...\\710_049.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 02:33:50

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : EXTRACTION: B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

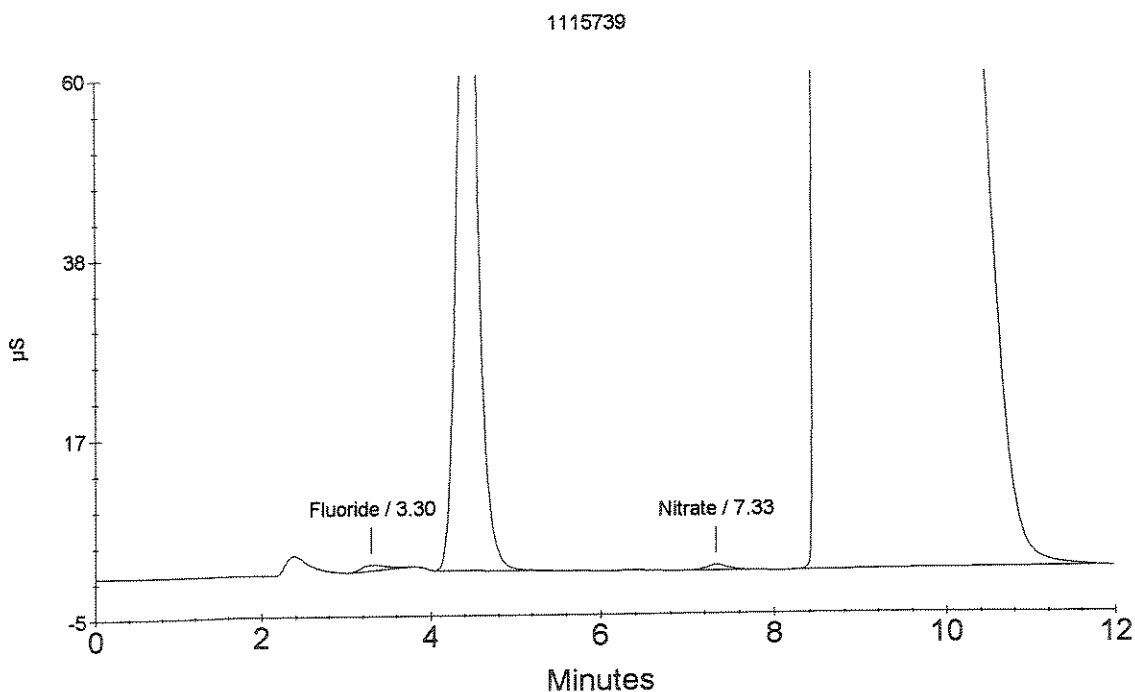
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	0.213	138571
2	4.43	Chloride Nitrite Bromide	33.308	15775526
3	7.33	Nitrate	0.179	111177
4	8.67	Sulfate	2683.440	667587090

OK

7/12/08

25g → 250ml



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1110981
Data File Name : ...\\710_050.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 02:48:09

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

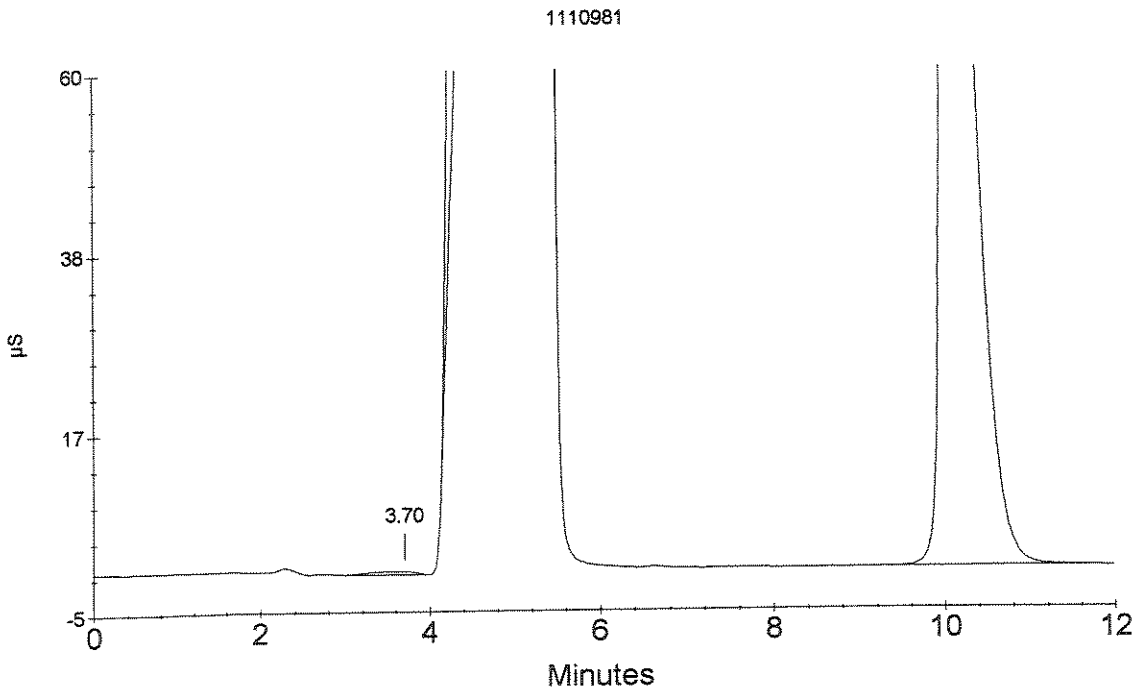
Dilution Factor : 20.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.70	Chloride	0.000	141949
2	4.73	Nitrite Bromide Nitrate Sulfate	1948.465	89906946

OK
7/12/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1110981
Data File Name : ...\\710_051.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 03:02:28

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

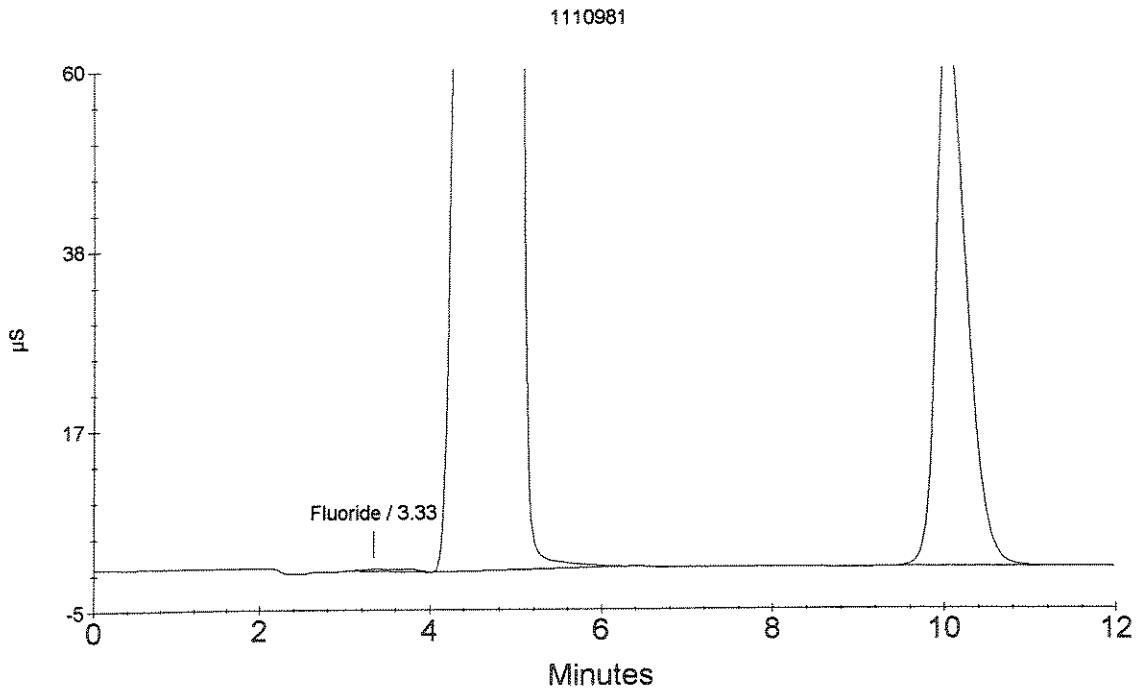
Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride Chloride	7.603	123607
2	4.97	Nitrite Bromide	6433.745	148457732
3	10.07	Nitrate Sulfate	2544.116	15841979

OK report 1/20
CW 7/12/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116367
Data File Name : ...\\710_052.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 03:16:48

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 200.00
Sample Type : Sample Analysis
Sample Comment : CB

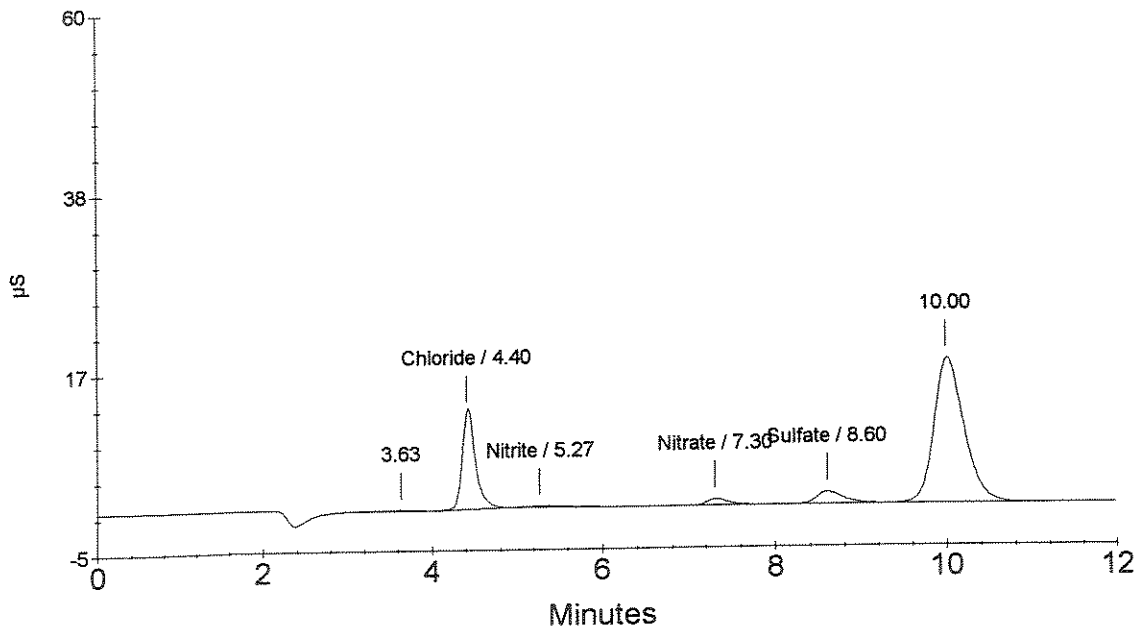
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.63		0.000	41353
2	4.40	Chloride	551.690	1279640
3	5.27	Nitrite Bromide	19.186	52726
4	7.30	Nitrate	39.562	131979
5	8.60	Sulfate	232.891	308974

Handwritten signature
7/12/08

1116367



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116367 DUP
Data File Name : ... \710_053.DXD
Method File Name : ... \20080710.met
Date Time Collected : 7/12/08 03:31:08

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 200.00
Sample Type : Sample Analysis
Sample Comment : CB

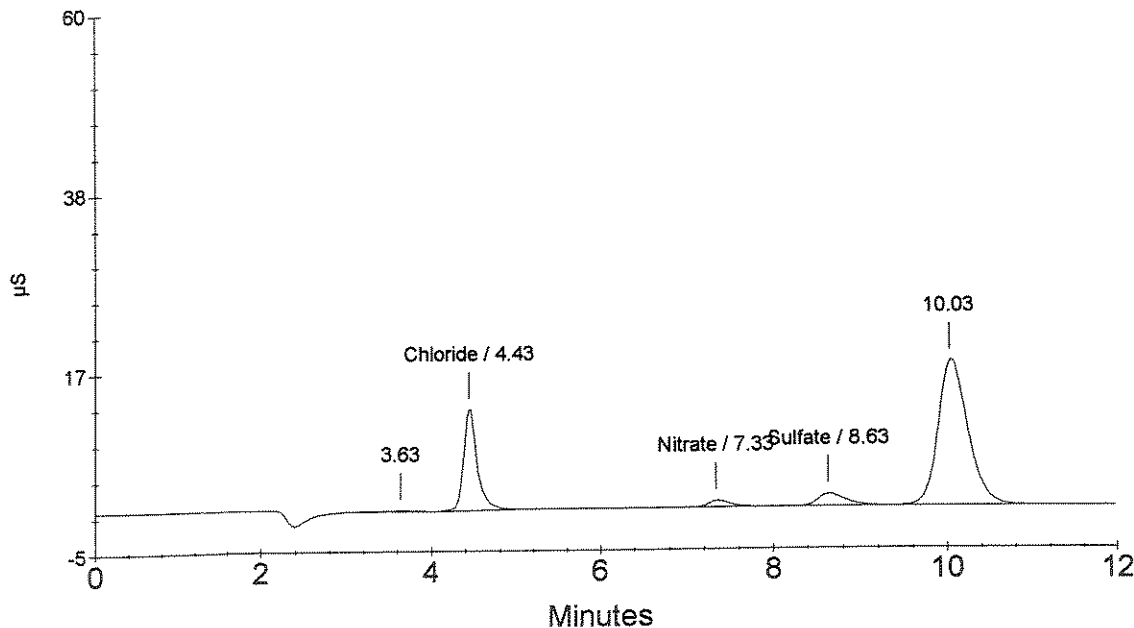
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.63		0.000	42016
2	4.43	Chloride Nitrite Bromide	570.879	1325166
3	7.33	Nitrate	39.801	133331
4	8.63	Sulfate	233.777	310076

Handwritten signature
7/12/08

1116367 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116367 SPK
Data File Name : ...\\710_054.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 03:45:27

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

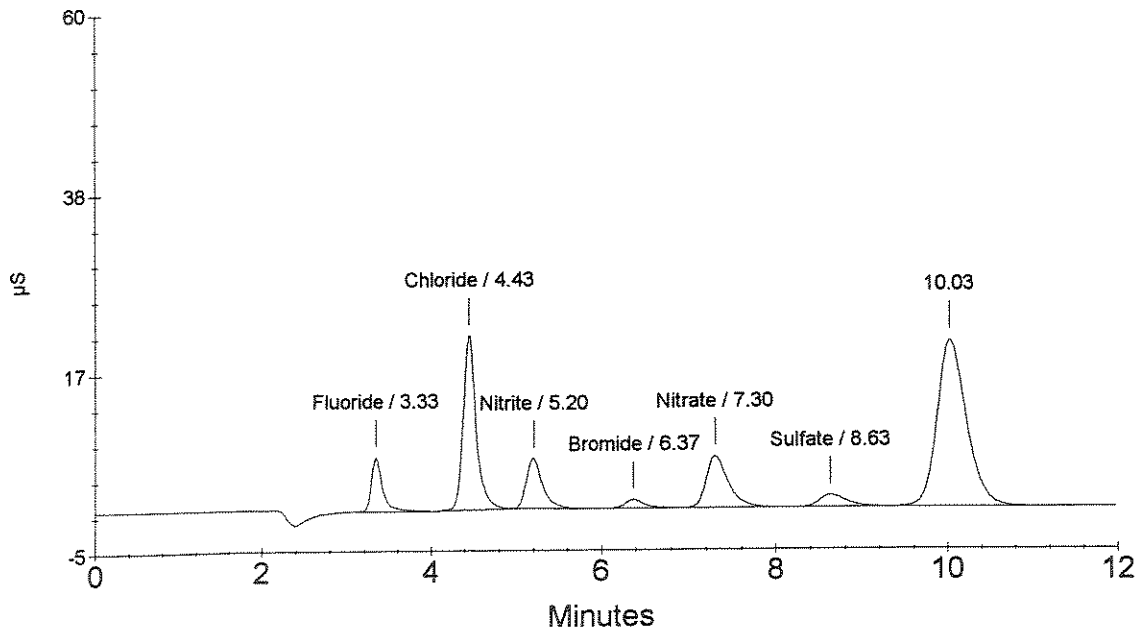
Dilution Factor : 200.00
Sample Type : Sample Analysis
Sample Comment : CB

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	186.795	606624
2	4.43	Chloride <i>OK</i>	944.545	2211693
3	5.20	Nitrite	178.257	787011
4	6.37	Bromide	177.800	152059
5	7.30	Nitrate	206.977	1077626
6	8.63	Sulfate	230.817	306394

C. Woods
1116367 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\710_055.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 03:59:48

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

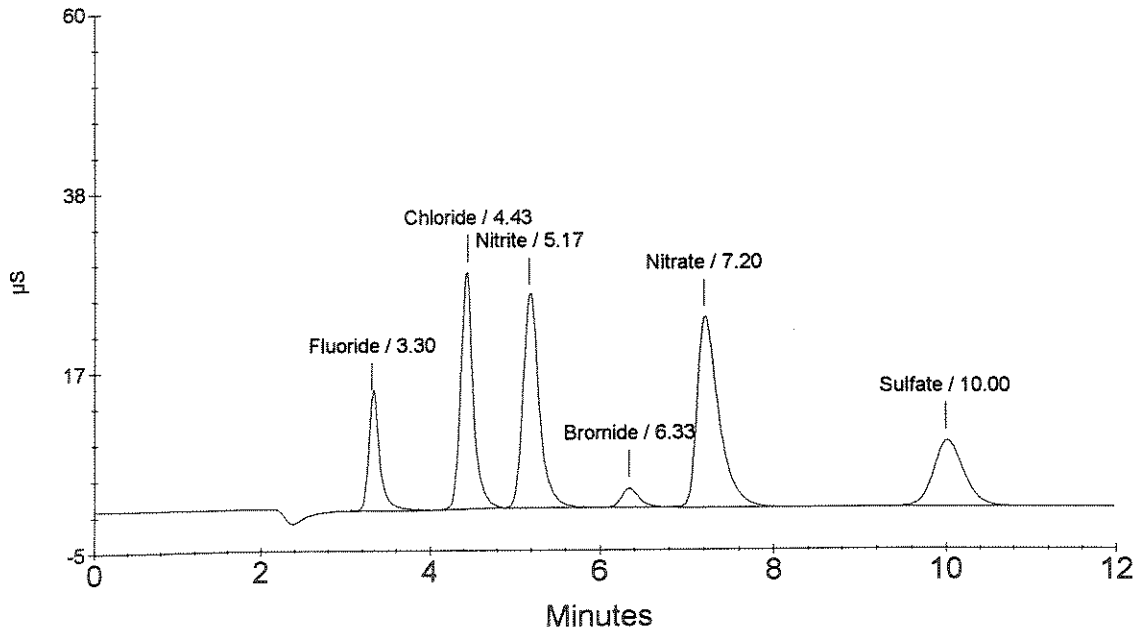
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	2.005	1302289
2	4.43	Chloride	6.296	2957995
3	5.17	Nitrite	3.694	3374677
4	6.33	Bromide	1.971	329251
5	7.20	Nitrate	3.595	3969868
6	10.00	Sulfate	7.709	1937146

Handwritten notes:
A vertical arrow pointing down from peak 1 to peak 5.
A horizontal line under peak 6.
Signature and date: *7/12/08*

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\710_056.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 04:14:08

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

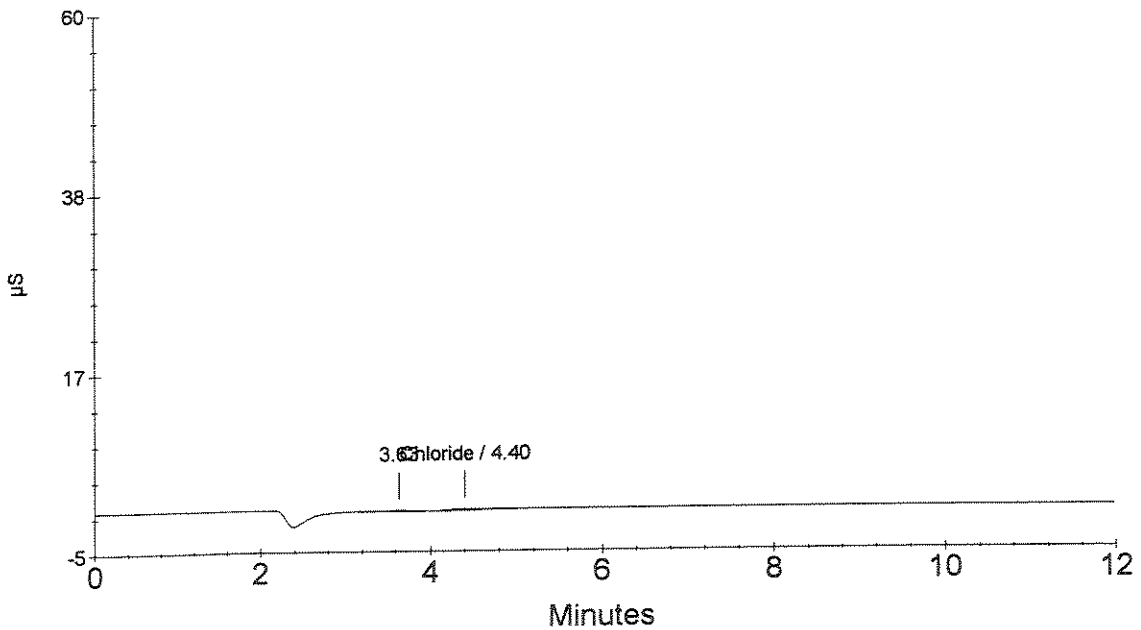
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.63		0.000	38926
2	4.40	Chloride Nitrite Bromide Nitrate Sulfate	0.162	47697

OK
↓
CCB
7/12/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\\710_057.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 04:28:27

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

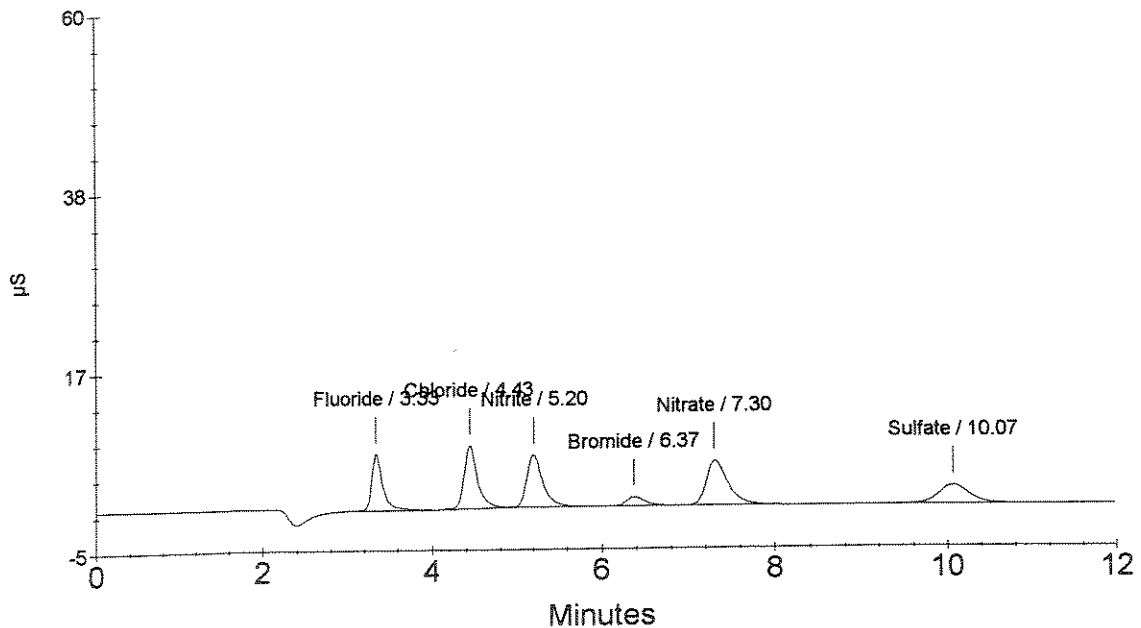
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	0.969	629159
2	4.43	Chloride	1.814	831596
3	5.20	Nitrite	0.933	825610
4	6.37	Bromide	0.932	159164
5	7.30	Nitrate	0.909	935687
6	10.07	Sulfate	2.137	550886

OK
↓
7/12/08

LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116370
Data File Name : ...\\710_058.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 04:42:48

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

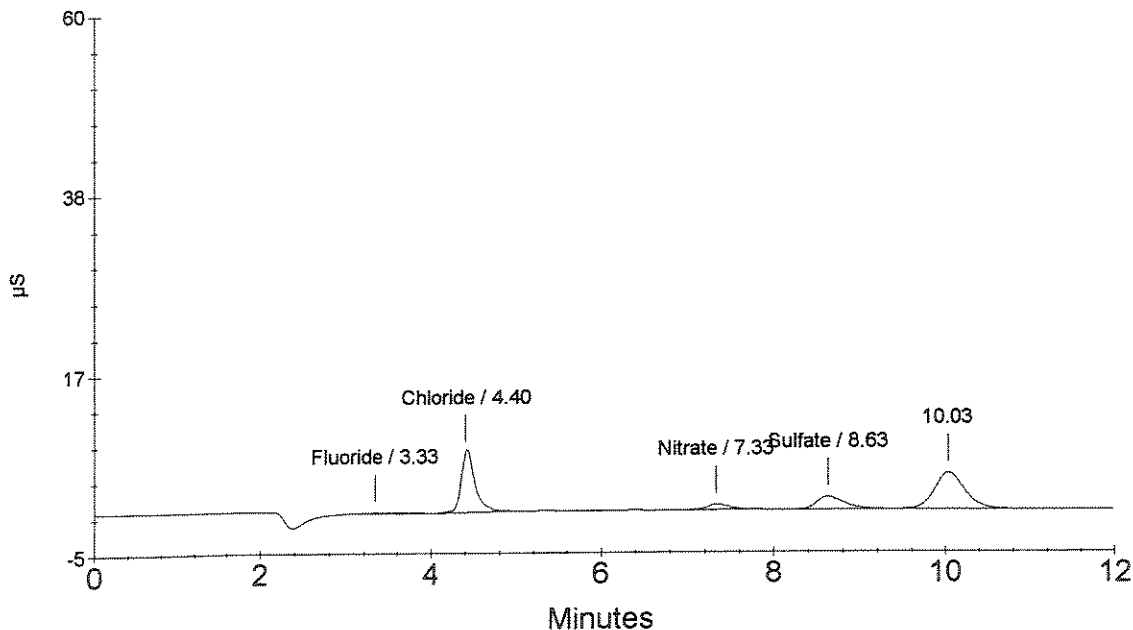
Dilution Factor : 200.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	12.532	40884
2	4.40	Chloride Nitrite Bromide	364.612	835797
3	7.33	Nitrate	35.473	108882
4	8.63	Sulfate	240.580	318538

apt 1/20
cm 7/12/08
1116370



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116370 DUP
 Data File Name : ...\\710_059.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/12/08 04:57:07

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 200.00
 Sample Type : Sample Analysis
 Sample Comment : B

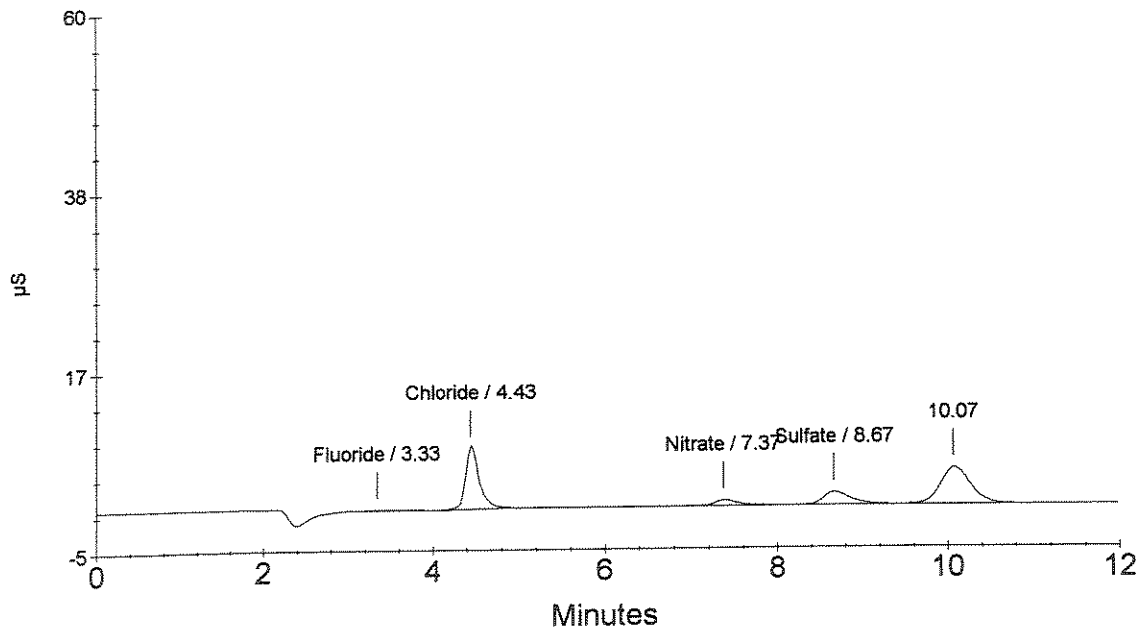
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	13.392	43677
2	4.43	Chloride	366.394	840024
		Nitrite		
		Bromide		
3	7.37	Nitrate	35.790	110677
4	8.67	Sulfate	242.237	320599

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 7/12/08

1116370 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116370 SPK
Data File Name : ...\\710_060.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 05:11:25

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

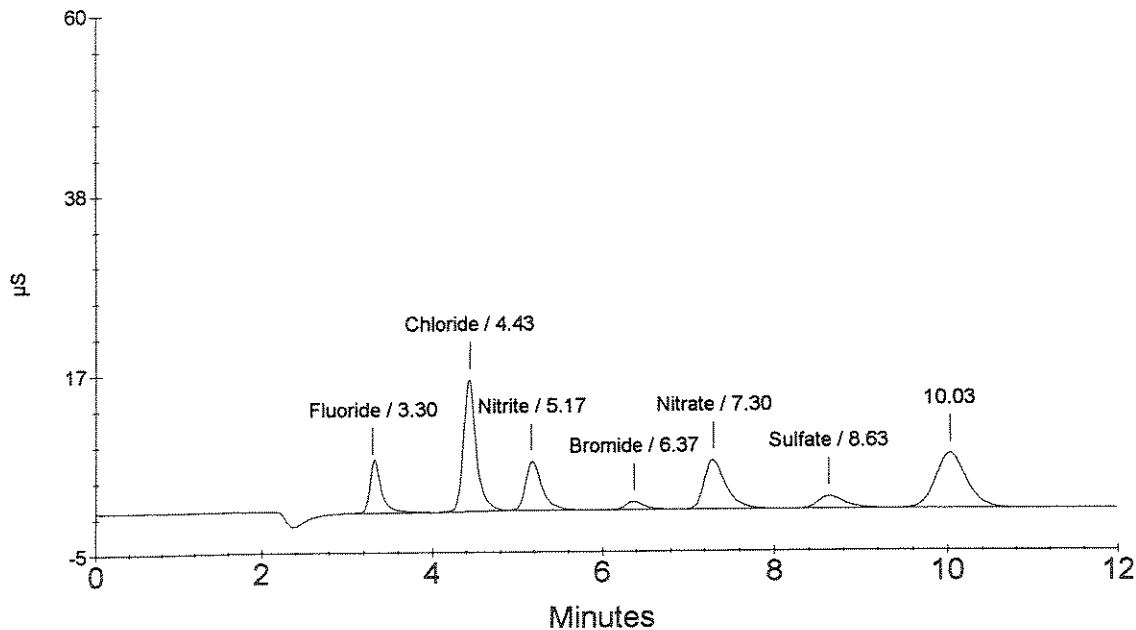
Dilution Factor : 200.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.30	Fluoride	181.914	590778
2	4.43	Chloride	718.097	1674443
3	5.17	Nitrite	174.256	768541
4	6.37	Bromide	173.944	148902
5	7.30	Nitrate	197.964	1026718
6	8.63	Sulfate	237.458	314655


1116370 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116373
Data File Name : ...\\710_061.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 05:25:45

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

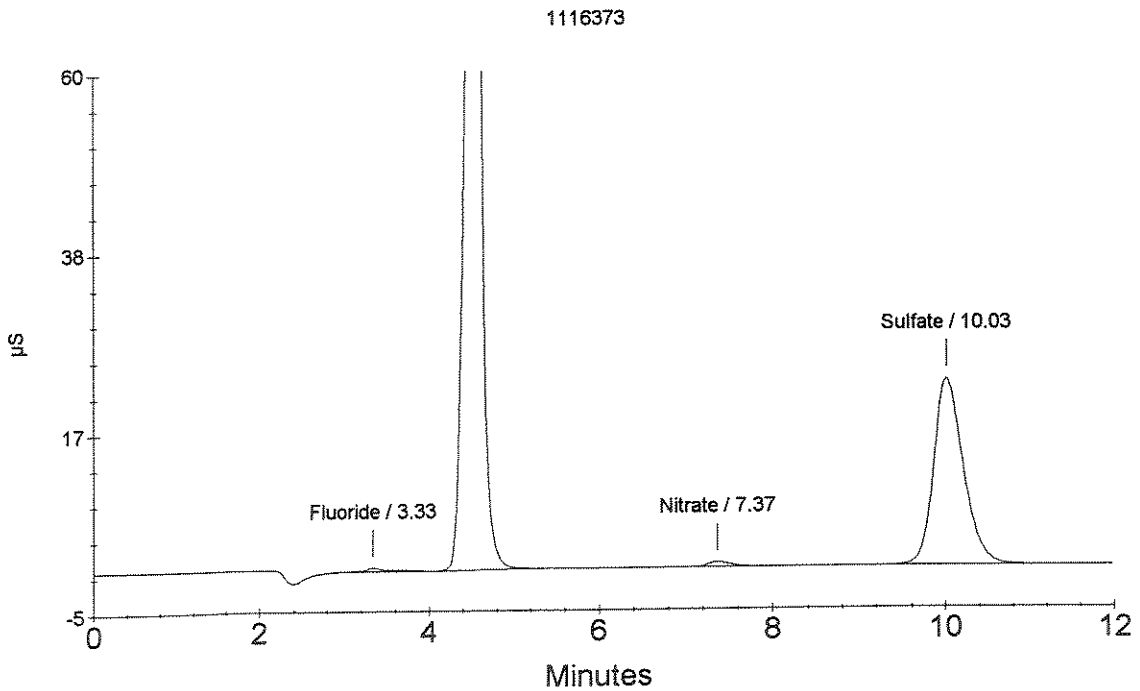
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	1.230	80070
2	4.53	Chloride Nitrite Bromide	363.841	17235095
3	7.37	Nitrate	1.735	104489
4	10.03	Sulfate	215.684	5384932

OK
7/12/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116373 DUP
Data File Name : ...\\710_062.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 05:39:59

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

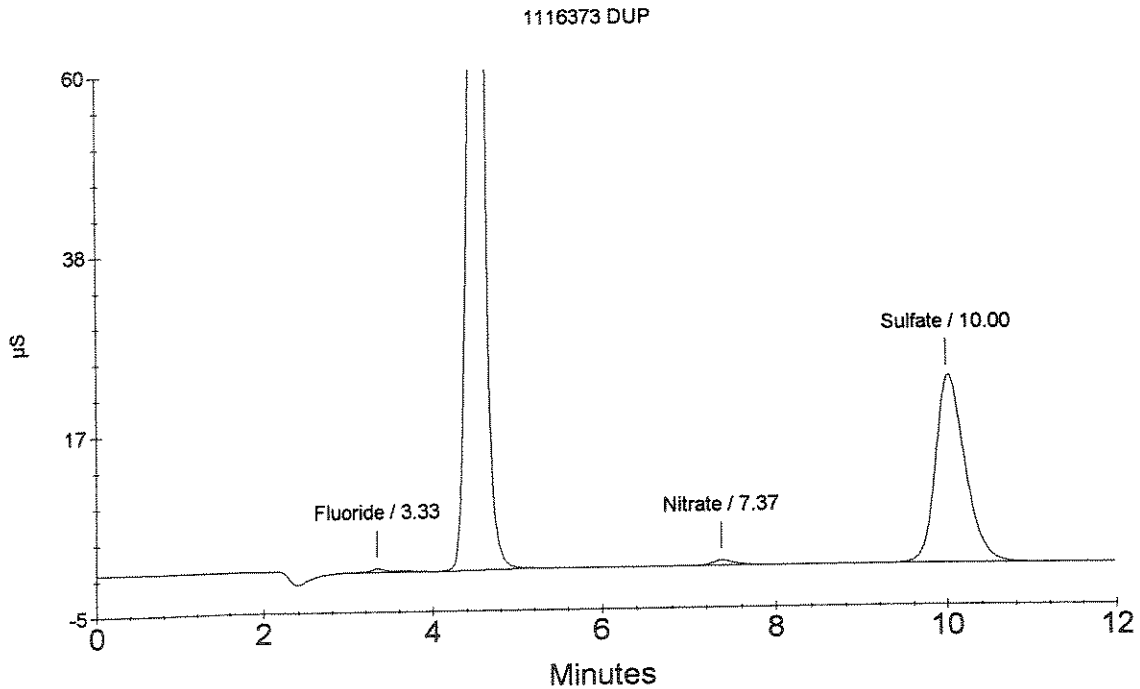
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	1.232	80207
2	4.53	Chloride Nitrite Bromide	365.965	17335858
3	7.37	Nitrate	1.735	104551
4	10.00	Sulfate	216.617	5408149

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7/12/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116373 SPK
Data File Name : ...\\710_063.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 05:54:18

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

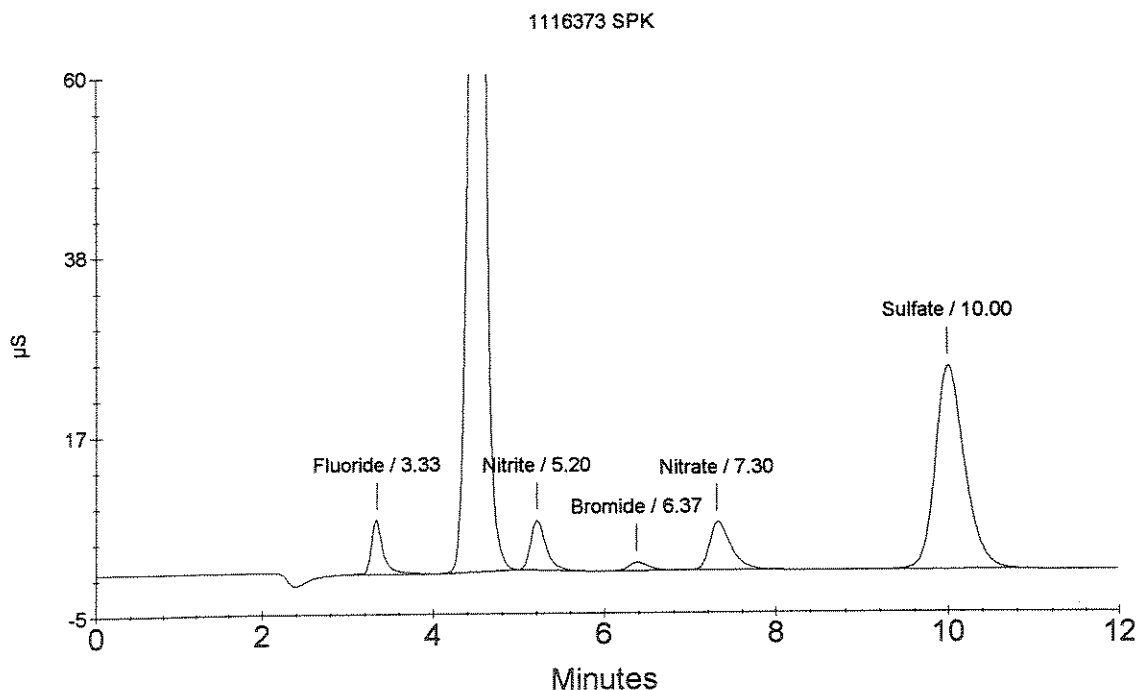
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	9.687	629181
2	4.53	Chloride	374.204	17726800
3	5.20	Nitrite	8.348	734890
4	6.37	Bromide <i>OK</i>	8.888	152031
5	7.30	Nitrate	9.814	1017212
6	10.00	Sulfate	234.619	5855968

CW
7/12/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116373
Data File Name : ...\\710_064.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 06:08:38

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

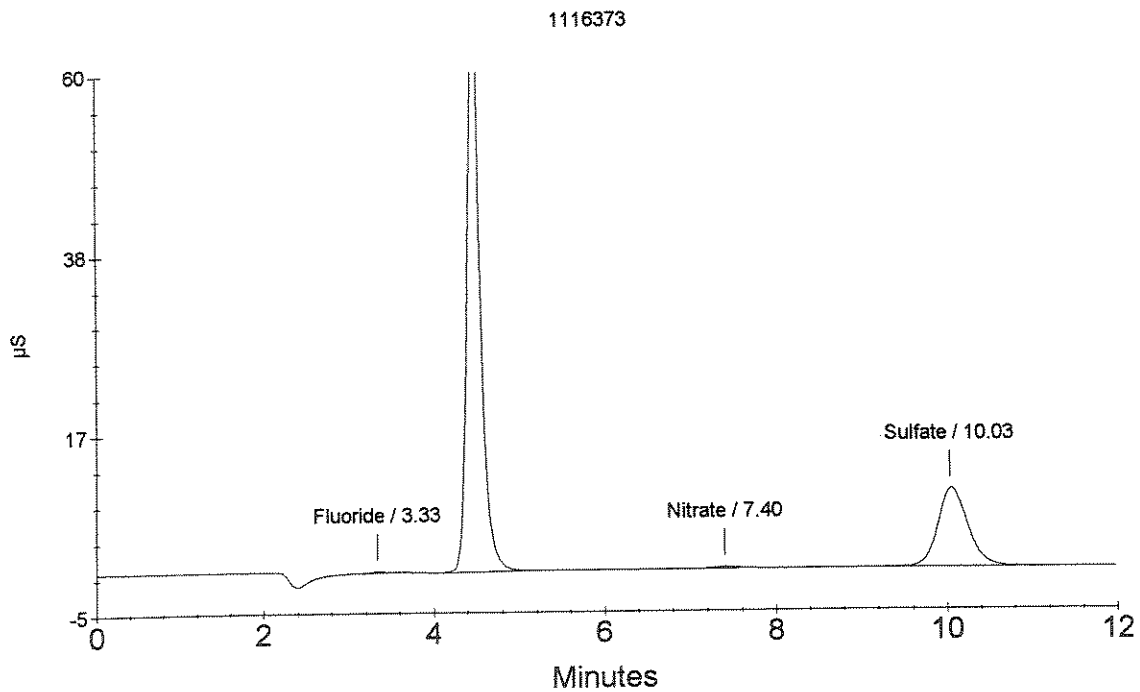
Dilution Factor : 20.00
Sample Type : Sample Analysis
Sample Comment : B

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	0.498	16364
2	4.47	Chloride Nitrite Bromide	312.780	7391487
3	7.40	Nitrate	2.181	31690
4	10.03	Sulfate	182.860	2293823

Report 7/12/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116921
Data File Name : ...\\710_065.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 06:22:57

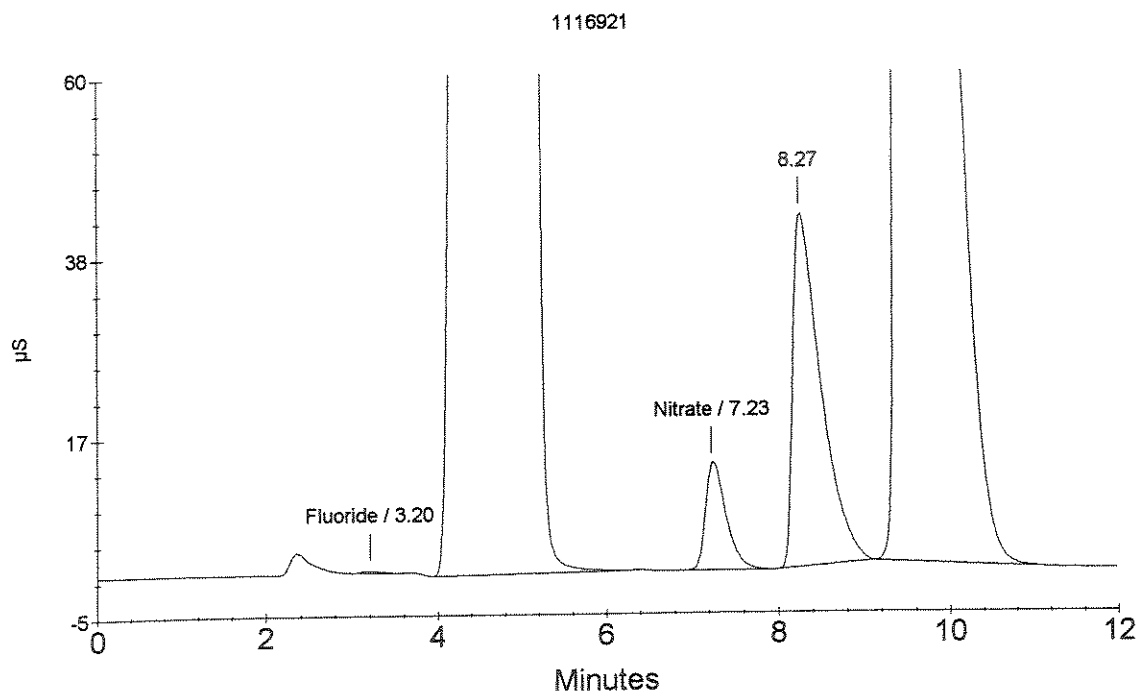
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride Chloride	0.535	34937
2	5.10	Nitrite Bromide	3423.604	316037069
3	7.23	Nitrate	19.728	2137229
5	9.53	Sulfate	4221.397	105036295



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116921
Data File Name : ...\\710_066.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 06:37:16

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

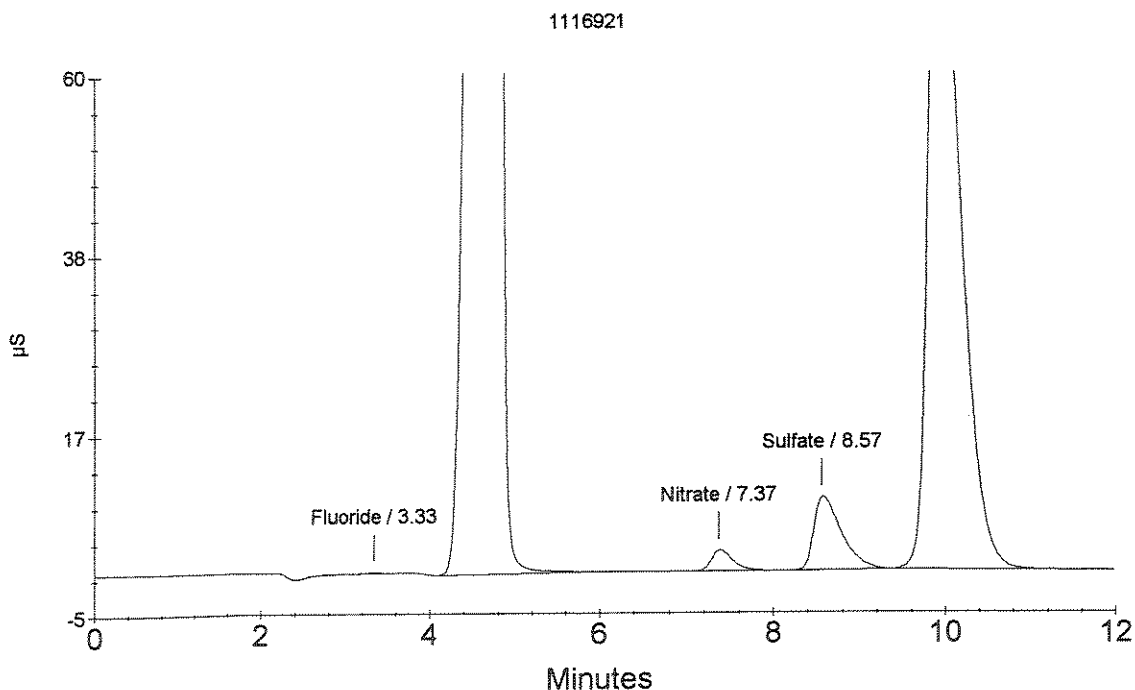
Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	0.686	11336
2	4.73	Chloride	3212.612	74112605
3	7.37	Nitrite	18.644	435074
4	8.57	Nitrate	306.011	1922469
		Bromide		
		Sulfate		

Handwritten: CWT
7/12/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116921
Data File Name : ...\\710_067.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 06:51:35

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

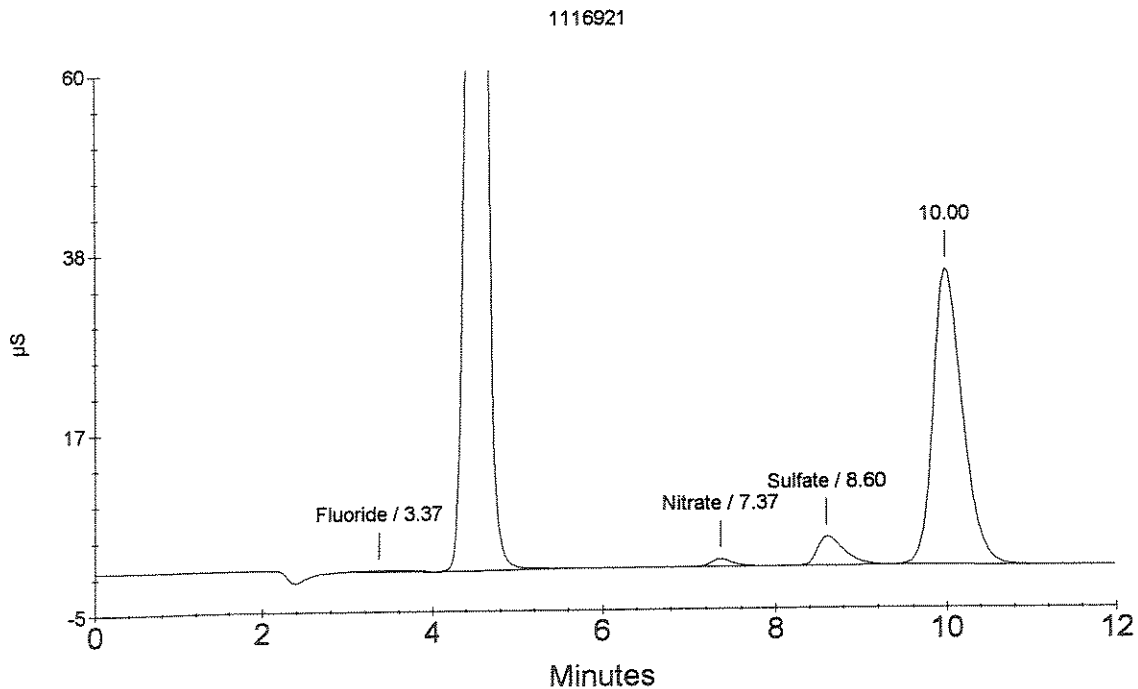
Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.37	Fluoride	8.680	56557
2	4.57	Chloride Nitrite Bromide	6198.788	29384118
3	7.37	Nitrate	22.109	158283
4	8.60	Sulfate	292.403	746710

OK
7/12/08
7/12/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116921 DUP
Data File Name : ...\\710_068.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 07:05:55

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

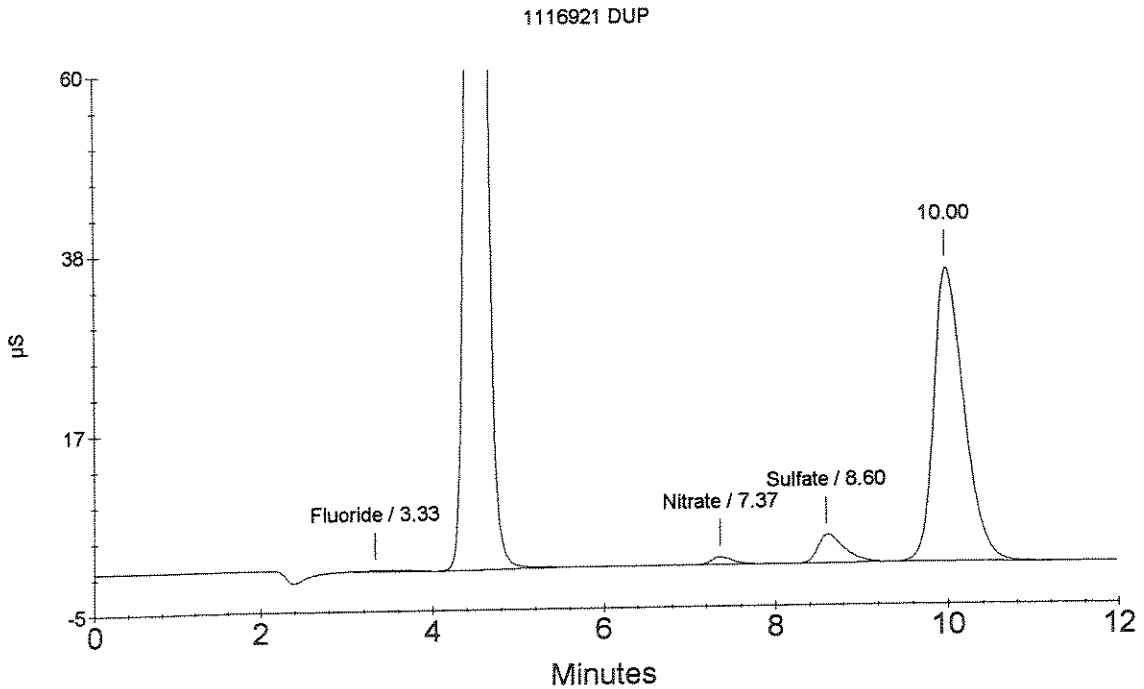
Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : CBNN

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	8.736	56920
2	4.57	Chloride Nitrite Bromide	6167.986	29237962
3	7.37	Nitrate	22.238	159737
4	8.60	Sulfate	290.440	741826

Handwritten notes:
A diagonal line is drawn through the Chloride, Nitrite, and Bromide entries in the table.
Handwritten initials "CW" are present near the Chloride entry.
Handwritten date "7/12/08" is written below the table.



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116921 SPK
Data File Name : ...\\710_069.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 07:20:14

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : CBNN

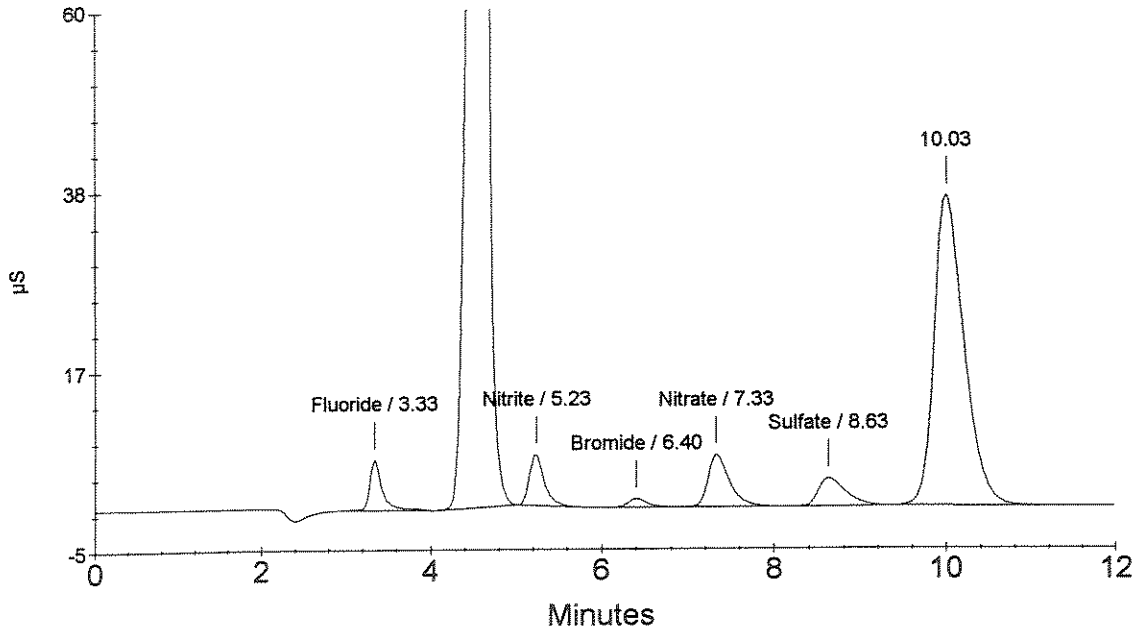
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	94.606	614473
2	4.60	Chloride	6243.752	29597472
3	5.23	Nitrite	83.108	731428
4	6.40	Bromide	86.960	148882
5	7.33	Nitrate	103.859	1081818
6	8.63	Sulfate	283.325	724125

OK
7/12/08
[Signature]

1116921 SPK



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116922
 Data File Name : ...\\710_070.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/12/08 07:34:33

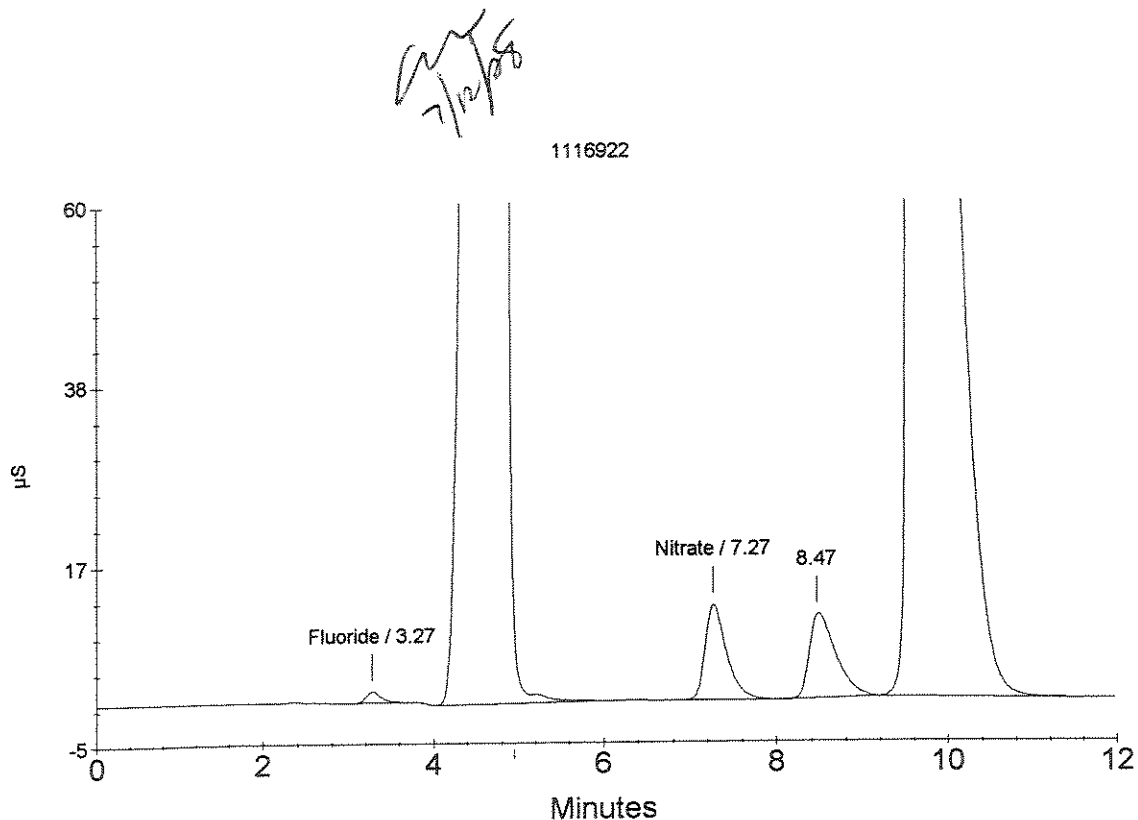
Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 10.00
 Sample Type : Sample Analysis
 Sample Comment : CBNN

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride Chloride	2.469	160483
2	4.77	Nitrite Bromide	1156.373	106722510
3	7.27	Nitrate	18.392	1986241
5	9.70	Sulfate	2818.518	70136443



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116922
 Data File Name : ...\\710_071.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/12/08 07:48:53

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

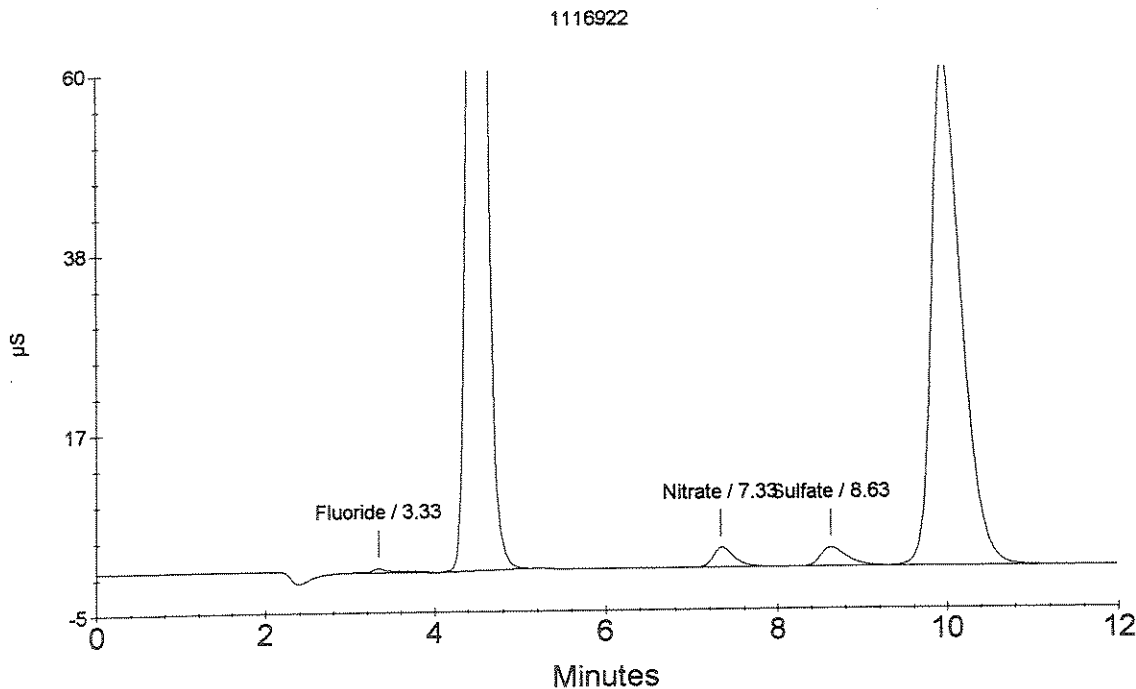
Dilution Factor : 40.00
 Sample Type : Sample Analysis
 Sample Comment : CBNN

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	5.557	90402
2	4.57	Chloride Nitrite Bromide	2020.435	23938258
3	7.33	Nitrate	17.733	409341
4	8.63	Sulfate	72.891	472619

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7/12/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116922
 Data File Name : ...\\710_072.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/12/08 08:03:12

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

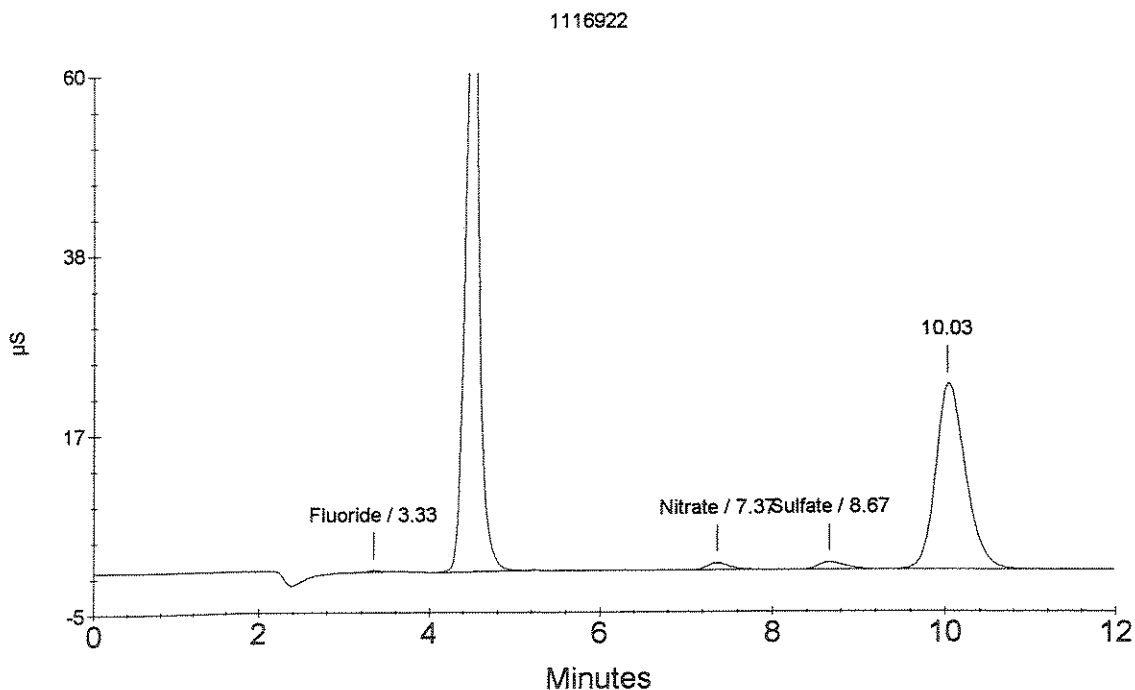
Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CBNN

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	2.459	16163
2	4.47	Chloride Nitrite Bromide	1902.656	8998890
3	7.37	Nitrate	20.974	145460
4	8.67	Sulfate	67.351	186840

Handwritten notes:
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 7/12/08
 [Signature]



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116922 DUP
 Data File Name : ... \710_073.DXD
 Method File Name : ... \20080710.met
 Date Time Collected : 7/12/08 08:17:31

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CBNN

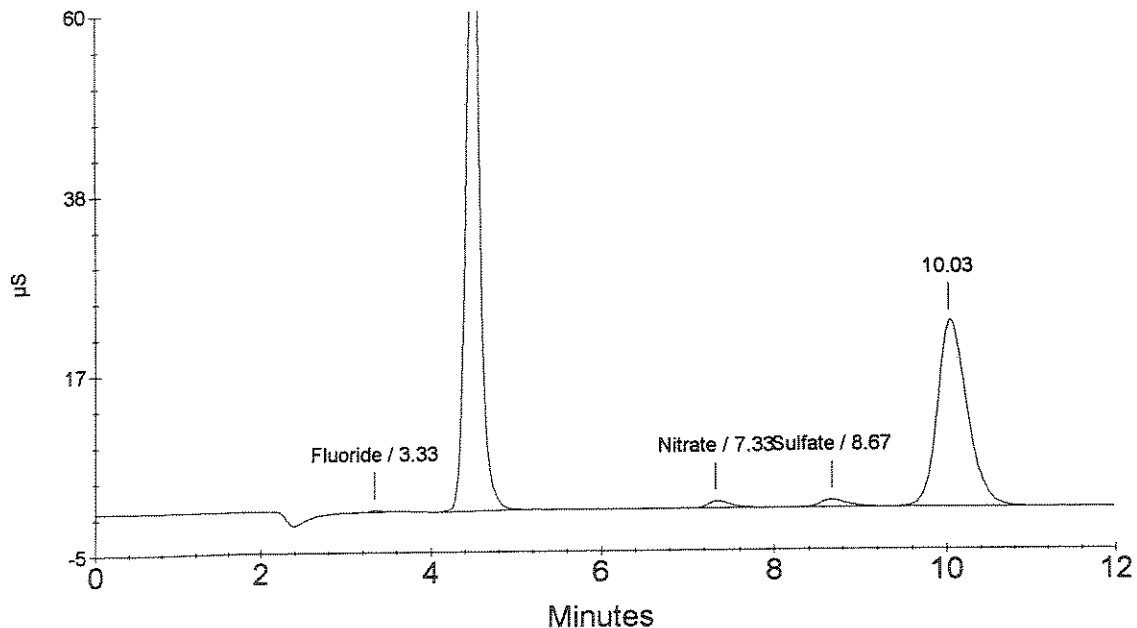
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	2.479	16292
2	4.50	Chloride Nitrite Bromide	1904.416	9007241
3	7.33	Nitrate	21.032	146117
4	8.67	Sulfate	67.831	188034

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 7/12/08

1116922 DUP



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116922 SPK
 Data File Name : ...\\710_074.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/12/08 08:31:52

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : CBNN

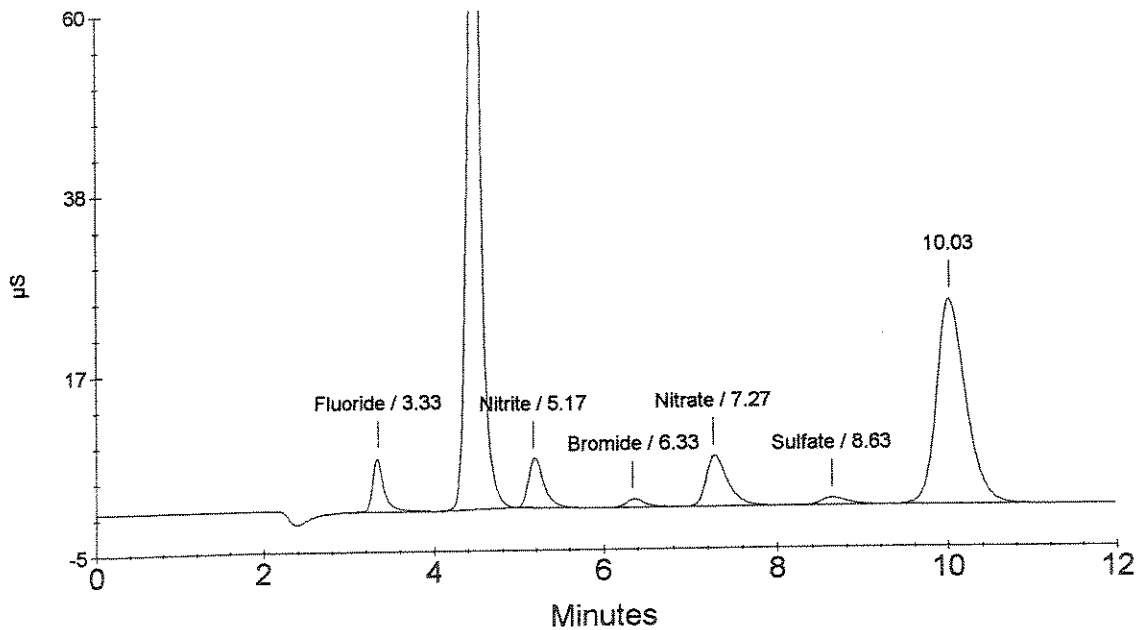
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	93.671	608401
2	4.47	Chloride	2077.347	9827800
3	5.17	Nitrite	85.663	755016
4	6.33	Bromide	86.534	148185
5	7.27	Nitrate	102.033	1061187
6	8.63	Sulfate	65.263	181645

CW
7/12/08

1116922 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\710_075.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 08:46:10

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

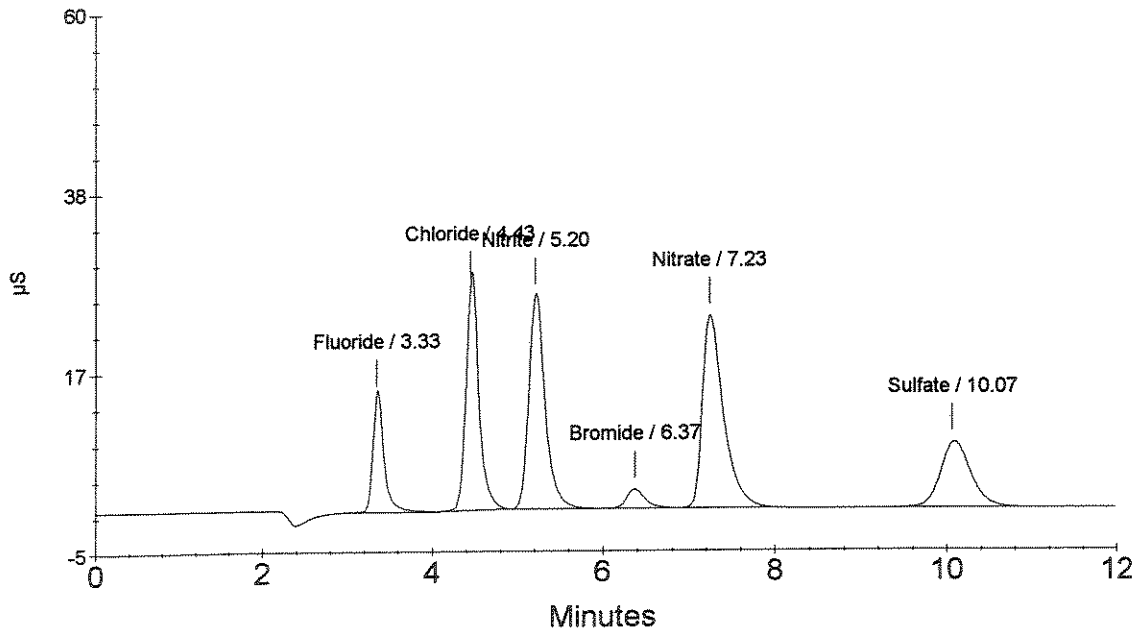
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	2.018	1310252
2	4.43	Chloride	6.342	2979895
3	5.20	Nitrite	3.699	3378906
4	6.37	Bromide	1.997	333428
5	7.23	Nitrate	3.613	3990000
6	10.07	Sulfate	7.669	1927222

OK
↓
7/12/08

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\710_076.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/12/08 09:00:30

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

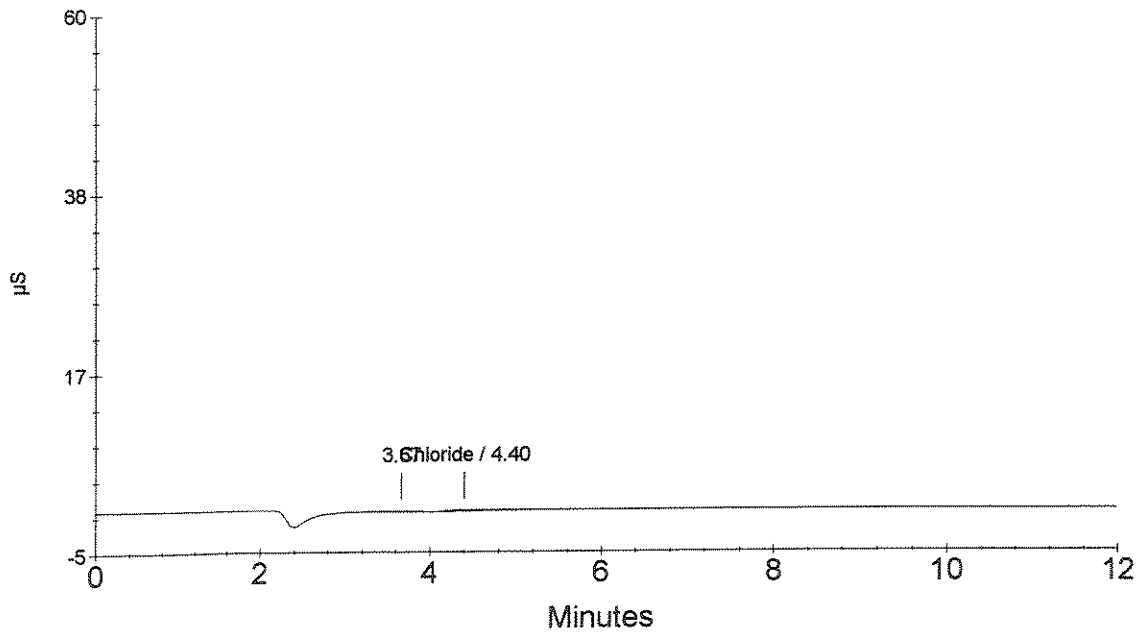
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.67		0.000	41970
2	4.40	Chloride Nitrite Bromide Nitrate Sulfate	0.159	46163

OK
↓
C. Woods
7/12/08
CCB



Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: 07/10/08

Loop size: 100 uL

Analyst: C. Woods

Analysis Date: 7-11-08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	07/10/08	WC90010A		Working Calibration Stds	07/10/08	WC90010H
LCS/MS Intermediate	07/10/08	WC90010A		Working LCS/MS Standard	07/10/08	WC90050A
ICV Intermediate	06/23/08	WC90100A		Working ICV Standard	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A		Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

CURVE INVALID FOR SULFATE ANALYSIS

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	W690010A	50	2.0	100	1.0	CMW	7/16/08	A	7/17/08	W690050A
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		

Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: 07/10/08

Loop size: 100 uL

Analyst: C. Woods

Analysis Date: 7-10-08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Intermediate	07/10/08	WC90010A		Working Calibration Stds	07/10/08	WC90010H
LCS / MS Intermediate	07/10/08	WC90010A		Working LCS/MS Standard	07/10/08	WC90050A
ICV Intermediate	06/23/08	WC90100A		Working ICV Standard	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A		Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

CURVE INVALID FOR SULFATE ANALYSIS

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	WC90010A	50	2.0	100	1.0	CMMW	7/16/08	A	7/17/08	WC96050A
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		

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	WC8509F	1000	10	200	50	CMW	7/10/08	A	12/10/08	WC90010A
Cl	WC85706C	1000	20		100			B		
NO2	WC72001J	1000	10		50			C		
Br	WC85160D	1000	10		50			D		
NO3	WC72002N	1000	10		50			E		
OPO4	---	1000	10		50			F		
SO4	WC72001Y	1000	20		100			G		

WORKING CALIBRATION STANDARDS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DL. Expire after 7 days.)

Std #	Calibration Intermediate Stock ID	mLs Intermediate Stock	Final Vol. mLs	Final Std Conc.				Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID				
				F	Cl	NO2	Br						NO3	OPO4	SO4	
9	WC90010A	10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	5.0	10.0	CMW	7/10/08	H	7/17/08	WC90010H
8		8.0		4.0	8.0	4.0	4.0	4.0	4.0	4.0	8.0			I		
7		2.0 5.0 ⁴ 5.0 ⁴		2.5	5.0	2.5	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	1.0	2.0			K		
5		1.0		0.5	1.0	0.50	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	0.25	0.50			M		
3		0.2		0.10	0.20	0.10	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	0.05	0.10			O		
1		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			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	WC85057C	1000	4.0	1000	4.0	TC	6/23/08	A	9/25/08	WC90100A
Cl	WC85106D	650	20.0		13.0			B		
NO2	WC72007E	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	WC90100A	4.0	5.0	20.0	1.0	TC	DAILY	H	WC90100H
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				

Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 1
 Sample Type : Calibration Update
 Data File Name : ...\\710_001.DXD
 Method File Name : ...\\20080710.met

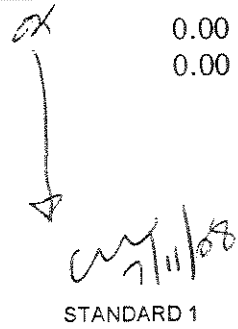
Date Time Collected : 7/10/08 16:00:52
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

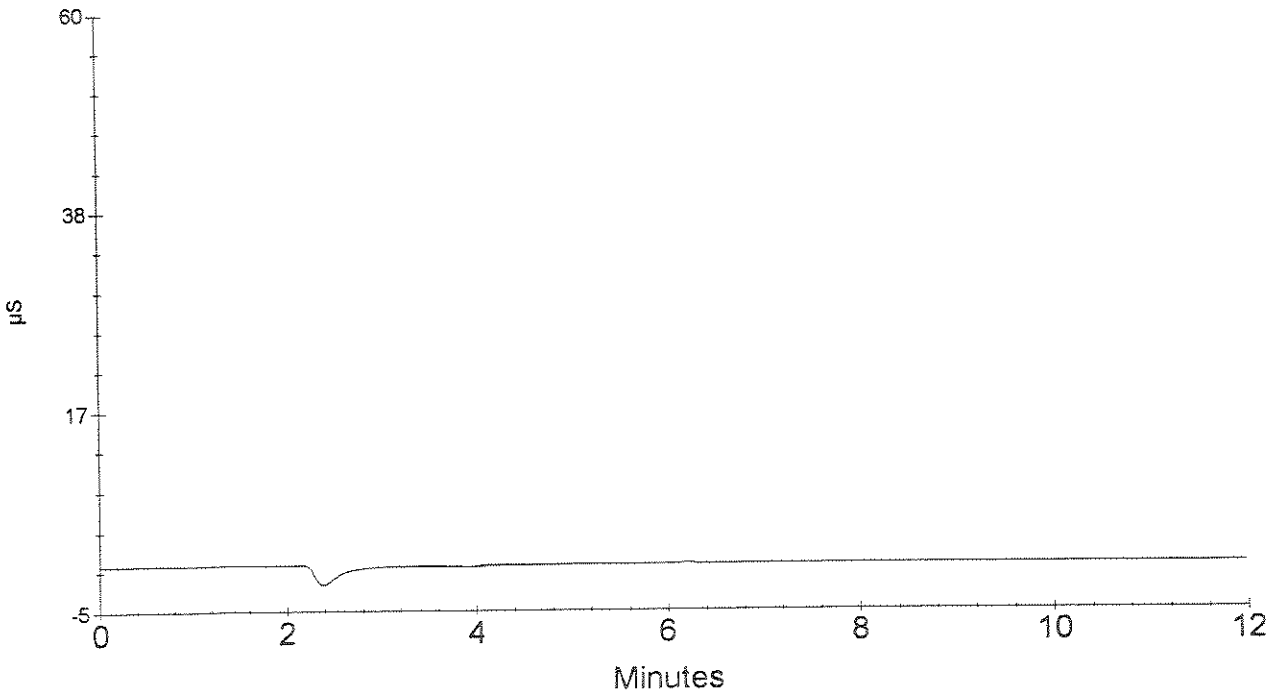
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 1

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.57	Fluoride	0.00	36788	584613.00
2	4.47	Chloride	0.00	70748	24587.00
		Nitrite			
		Bromide			
		Nitrate			
		Sulfate			

OK

 STANDARD 1



Ion Chromatography Calibration Report
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 Rochester, NY 14607

Sample Name : STANDARD 2
 Sample Type : Calibration Update
 Data File Name : ...\\710_002.DXD
 Method File Name : ...\\20080710.met

Date Time Collected : 7/10/08 16:15:11
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

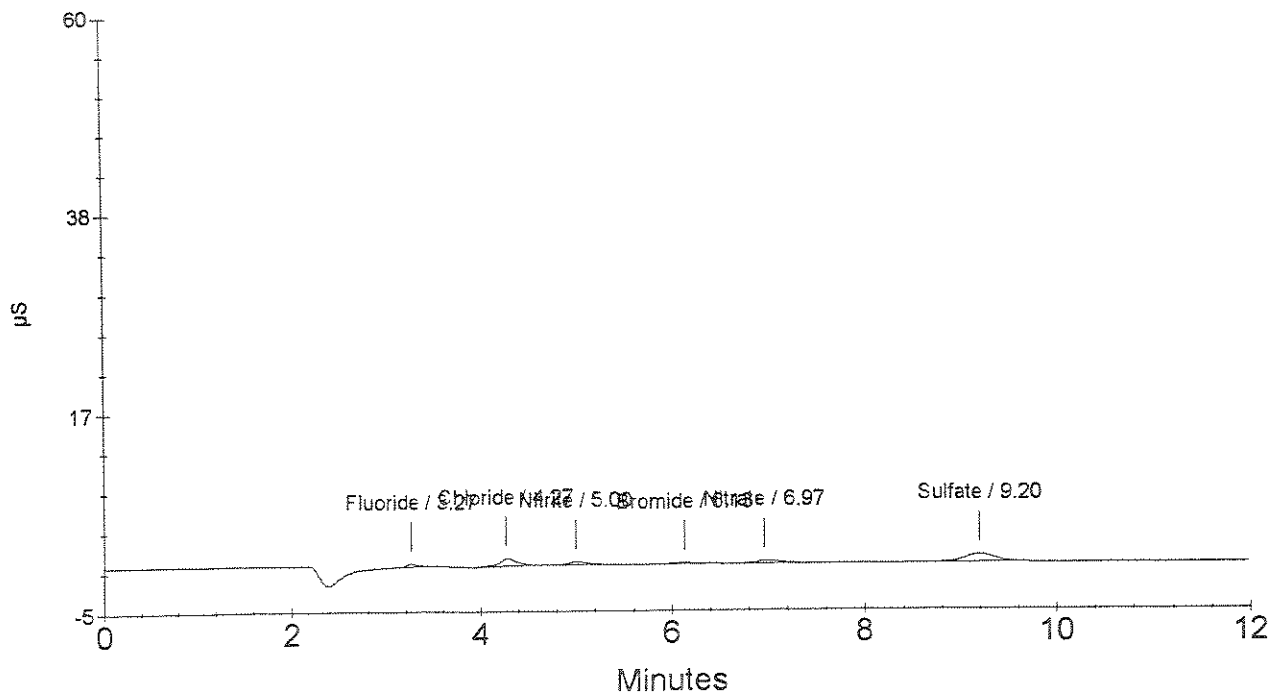
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 2

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.27	Fluoride	0.05	23624	20511.00
2	4.27	Chloride	0.10	105687	60631.50
3	5.00	Nitrite	0.05	37742	33073.00
4	6.13	Bromide	0.05	15182	10012.00
5	6.97	Nitrate	0.05	41482	35011.00
6	9.20	Sulfate	0.10	180212	24864.50

OK
 ↓
7/11/08
 STANDARD 2



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 3
 Sample Type : Calibration Update
 Data File Name : ...\\710_003.DXD
 Method File Name : ...\\20080710.met

Date Time Collected : 7/10/08 16:29:30
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

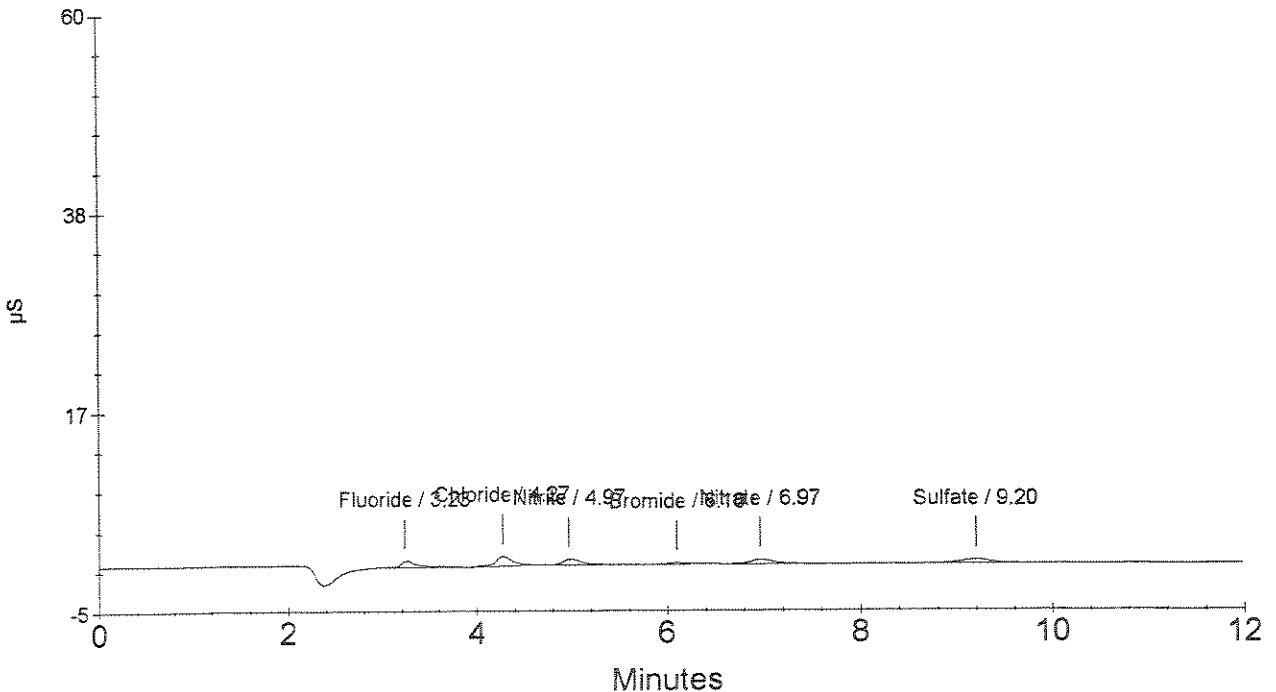
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 3

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.23	Fluoride	0.10	88256	43487.00
2	4.27	Chloride	0.20	130731	89946.50
3	4.97	Nitrite	0.10	73460	69578.00
4	6.10	Bromide	0.10	23720	18904.50
5	6.97	Nitrate	0.10	71740	71578.50
6	9.20	Sulfate	0.20	80616	44110.00

C. Woods
 7/11/08
 STANDARD 3



Ion Chromatography Calibration Report
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Sample Name : STANDARD 4
Sample Type : Calibration Update
Data File Name : ...710_004.DXD
Method File Name : ...20080710.met

Date Time Collected : 7/10/08 16:43:50
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Analyst : C. WOODS

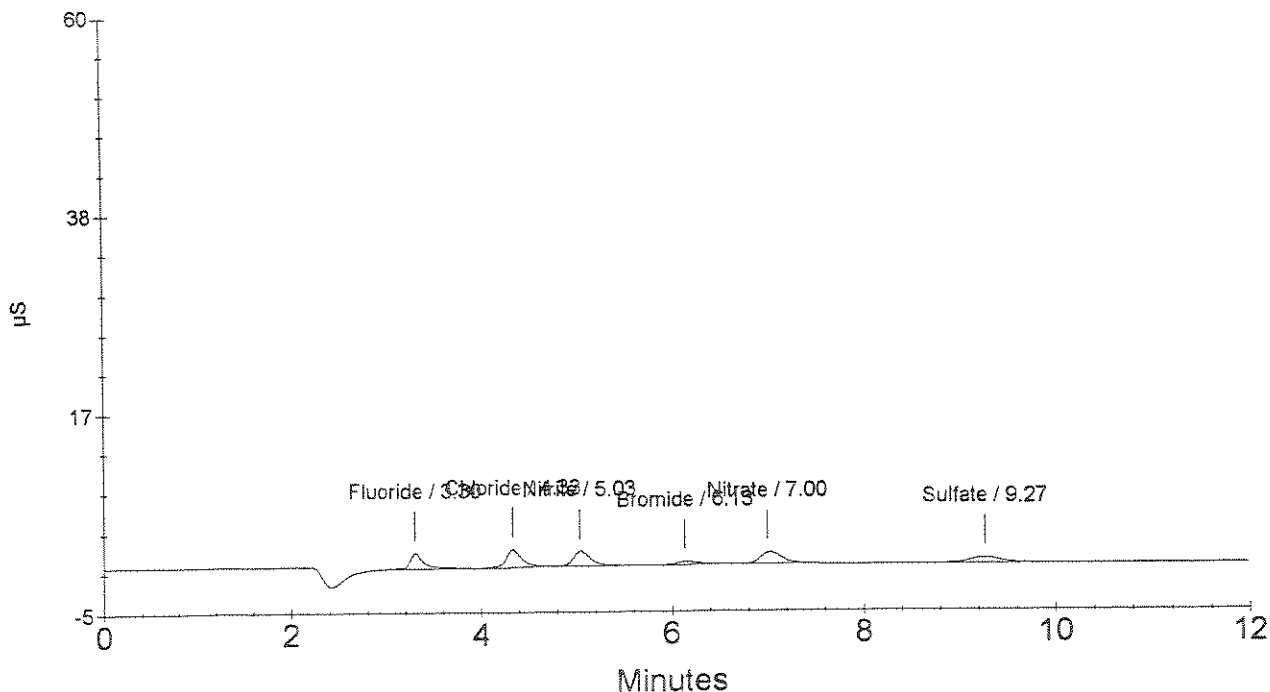
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 4

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.30	Fluoride	0.25	180708	105400.50
2	4.33	Chloride	0.50	223123	211273.50
3	5.03	Nitrite	0.25	194895	180651.00
4	6.13	Bromide	0.25	50308	43438.00
5	7.00	Nitrate	0.25	200167	194199.00
6	9.27	Sulfate	0.50	120542	126543.00

OK
↓
C. Woods
7/11/08
STANDARD 4



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 5
 Sample Type : Calibration Update
 Data File Name : ...\\710_005.DXD
 Method File Name : ...\\20080710.met

Date Time Collected : 7/10/08 16:58:09
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

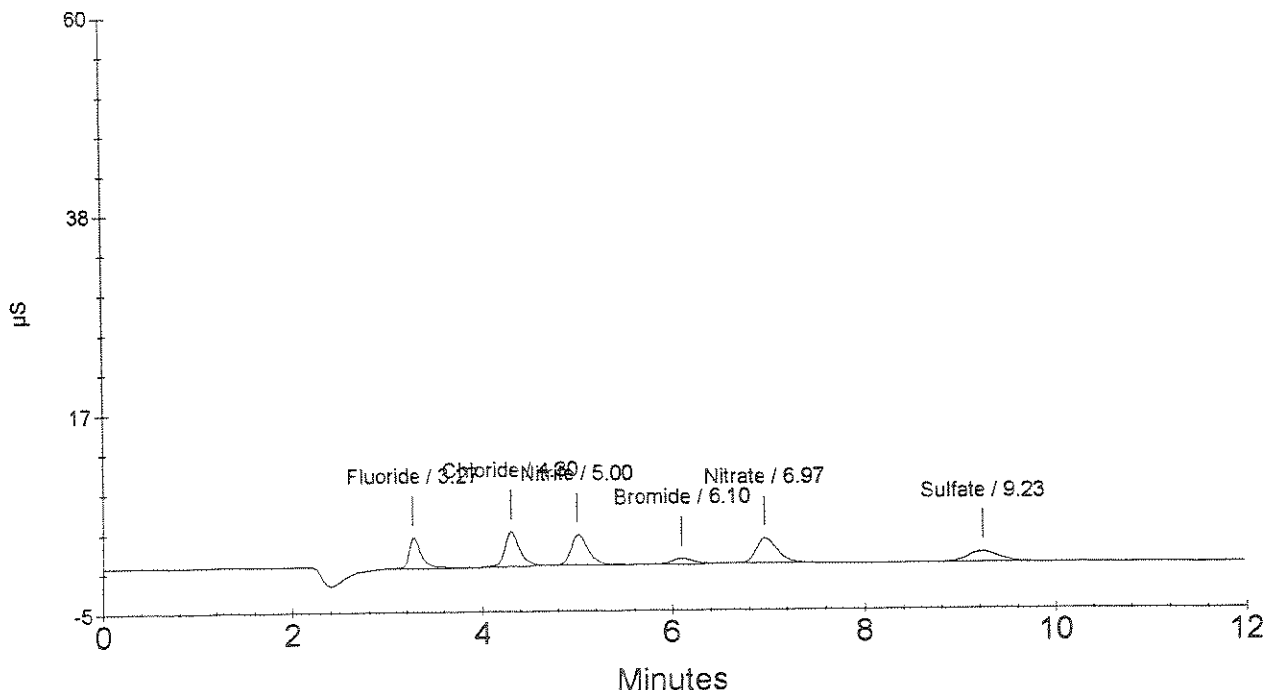
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 5

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.27	Fluoride	0.50	320033	280927.00
2	4.30	Chloride	1.00	412873	372164.00
3	5.00	Nitrite	0.50	404176	368469.00
4	6.10	Bromide	0.50	91343	81453.00
5	6.97	Nitrate	0.50	429630	397775.50
6	9.23	Sulfate	1.00	238036	239635.00

Handwritten signature
 STANDARD 5



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 6
 Sample Type : Calibration Update
 Data File Name : ...\\710_006.DXD
 Method File Name : ...\\20080710.met

Date Time Collected : 7/10/08 17:12:28
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

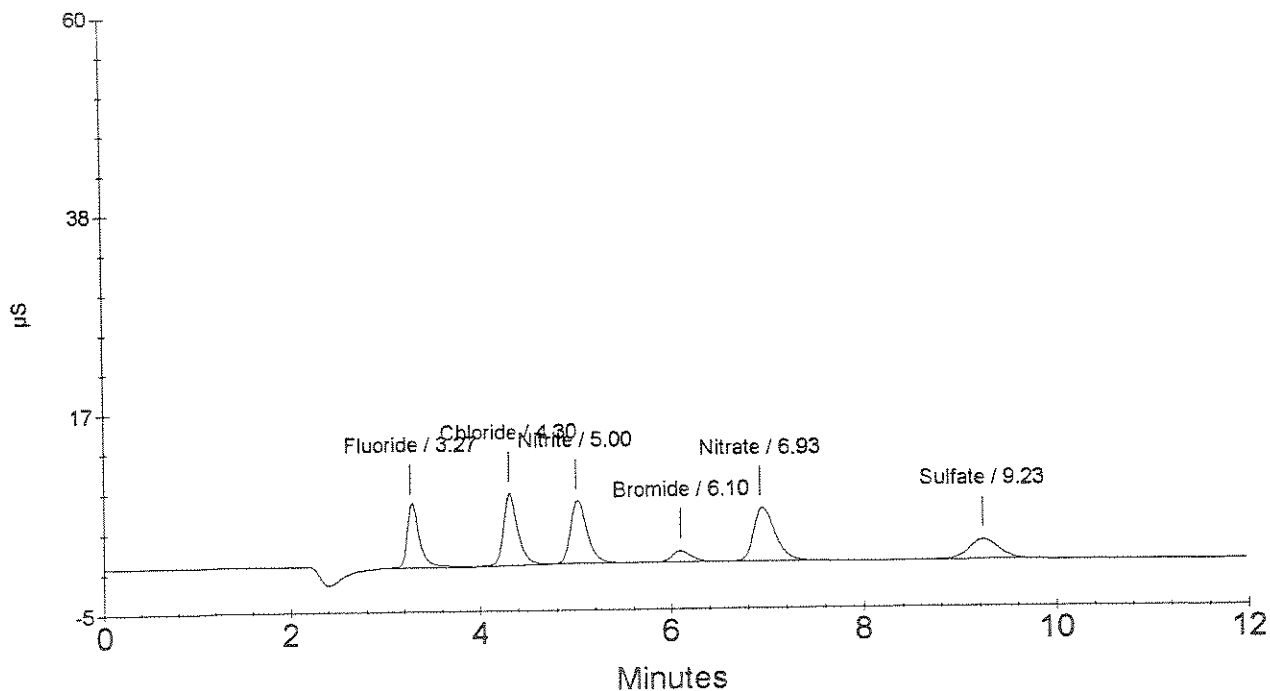
Calibration Type : EXTERNAL
 Calibration Level : 6

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.27	Fluoride	1.00	620779	552422.00
2	4.30	Chloride	2.00	808630	726483.50
3	5.00	Nitrite	1.00	827577	765373.00
4	6.10	Bromide	1.00	169980	155388.00
5	6.93	Nitrate	1.00	910119	839066.00
6	9.23	Sulfate	2.00	459599	482250.50

OK

7/11/08
 STANDARD 6



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 7
Sample Type : Calibration Update
Data File Name : ...\\710_007.DXD
Method File Name : ...\\20080710.met

Date Time Collected : 7/10/08 17:26:48
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Analyst : C. WOODS

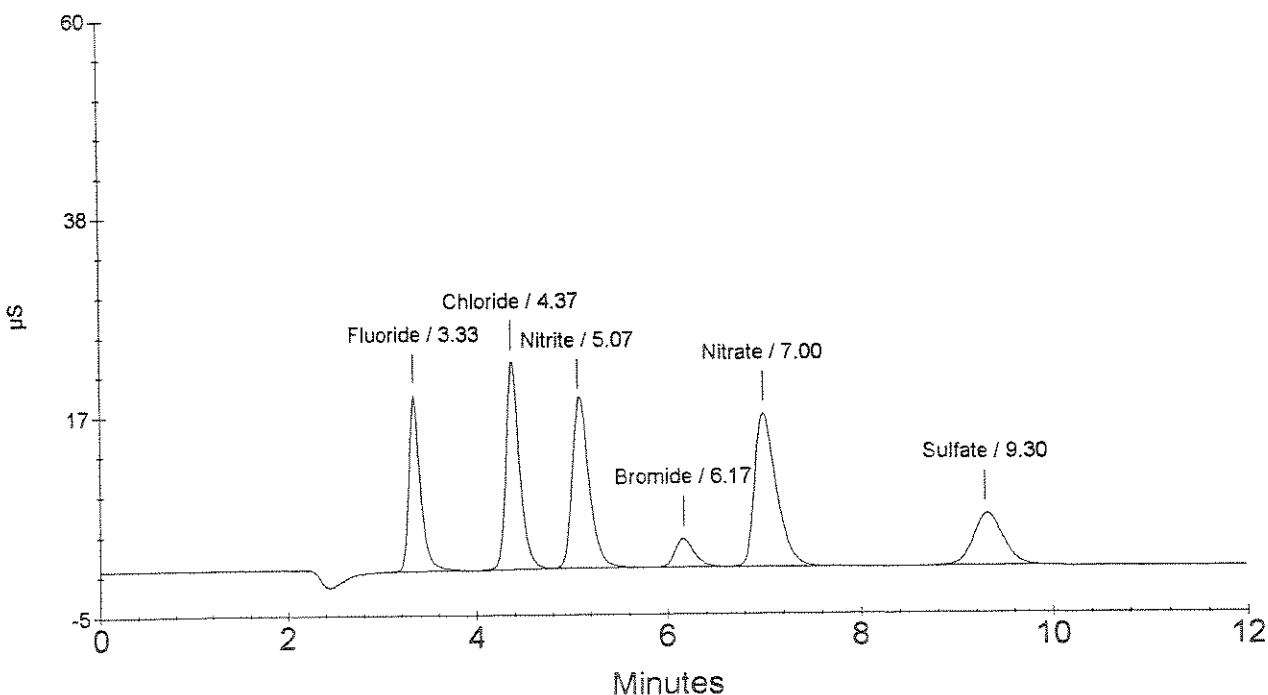
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 7

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.33	Fluoride	2.50	1630175	1467948.00
2	4.37	Chloride	5.00	2230900	1981111.50
3	5.07	Nitrite	2.50	2251962	2048245.00
4	6.17	Bromide	2.50	416821	381974.00
5	7.00	Nitrate	2.50	2600271	2301647.50
6	9.30	Sulfate	5.00	1223286	1268653.50

OK
↓
7/11/08
STANDARD 7



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 8
Sample Type : Calibration Update
Data File Name : ...\\710_008.DXD
Method File Name : ...\\20080710.met

Date Time Collected : 7/10/08 17:41:07
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Analyst : C. WOODS

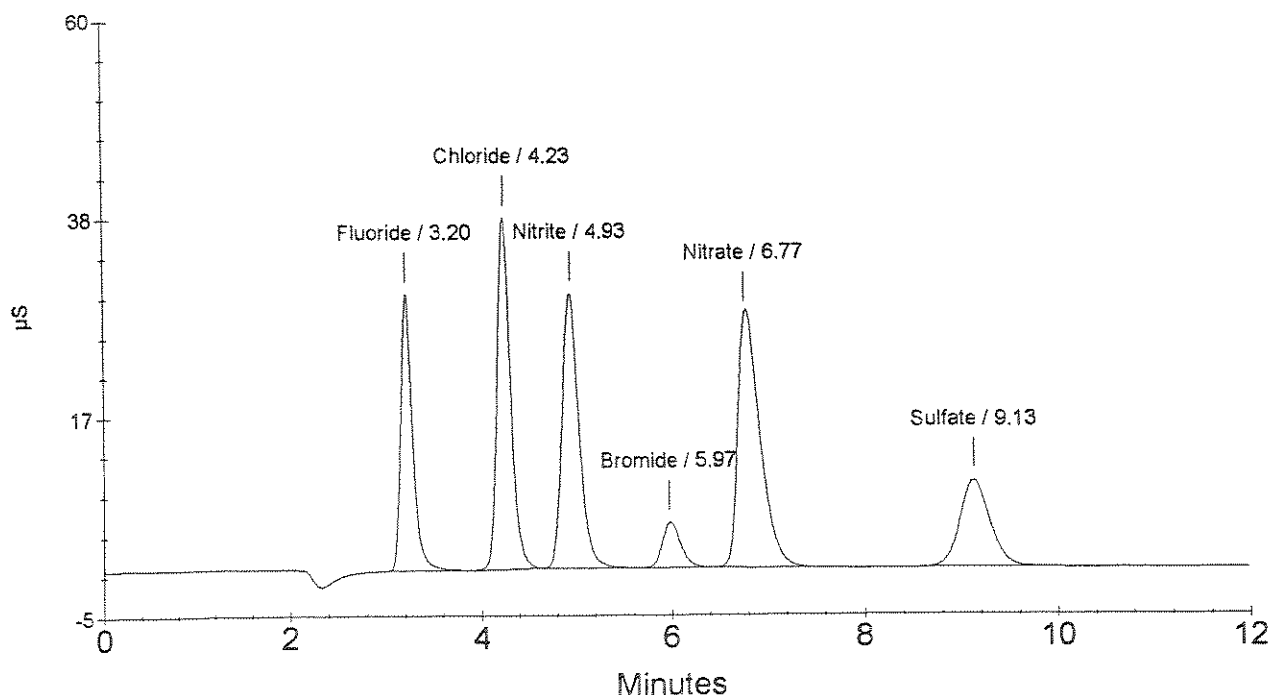
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 8

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.20	Fluoride	4.00	2568132	2334759.00
2	4.23	Chloride	8.00	3722293	3294251.00
3	4.93	Nitrite	4.00	3654183	3326780.50
4	5.97	Bromide	4.00	659027	605052.00
5	6.77	Nitrate	4.00	4398887	3859035.50
6	9.13	Sulfate	8.00	2002125	2057282.50

OK
↓
CW
7/11/08
STANDARD 8



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 9
 Sample Type : Calibration Update
 Data File Name : ...\\710_009.DXD
 Method File Name : ...\\20080710.met

Date Time Collected : 7/10/08 17:55:27
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

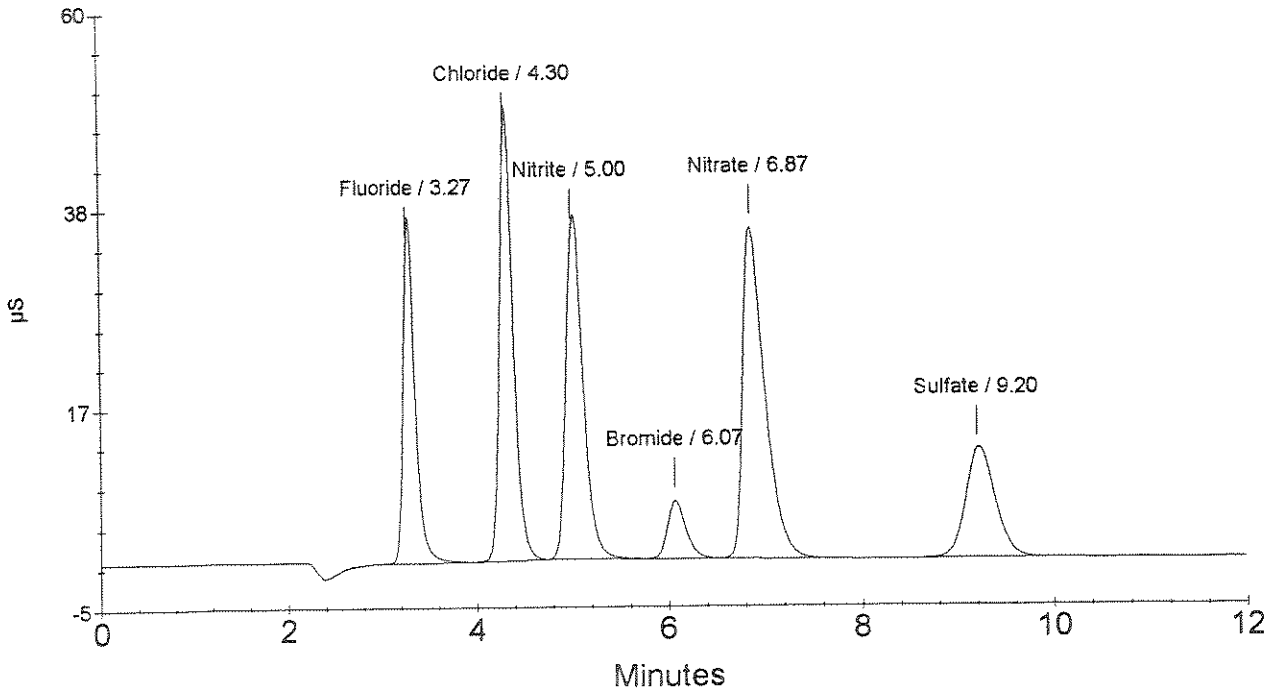
Calibration Type : EXTERNAL
 Calibration Level : 9

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.27	Fluoride	5.00	3270646	2990431.00
2	4.30	Chloride	10.00	4819170	4333962.00
3	5.00	Nitrite	5.00	4604552	4309791.00
4	6.07	Bromide	5.00	826270	780891.00
5	6.87	Nitrate	5.00	5662354	5122564.00
6	9.20	Sulfate	10.00	2536306	2696907.00

OK

 STANDARD 9



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICV
Data File Name : ...\\710_010.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/10/08 18:33:56

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

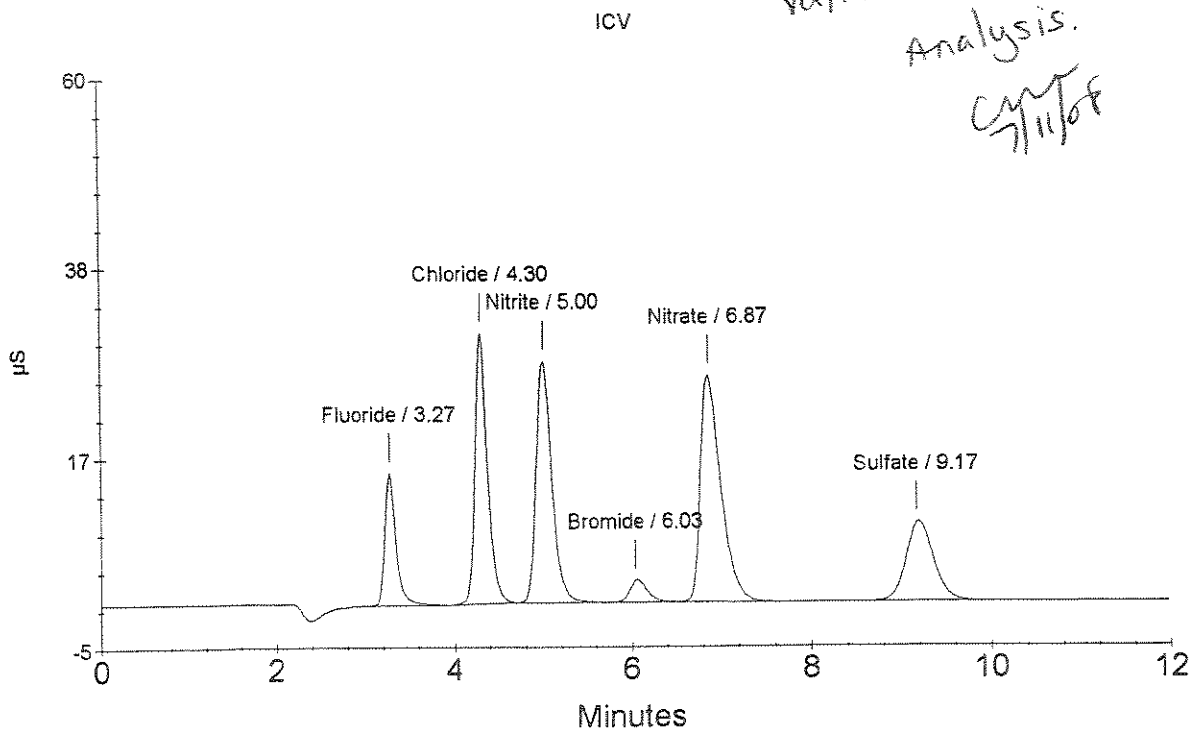
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	1.971	1282742
2	4.30	Chloride	6.370	2995721
3	5.00	Nitrite	3.659	3342989
4	6.03	Bromide	2.080	347083
5	6.87	Nitrate	3.653	4035788
6	9.17	Sulfate	7.679	1929688

OK
↓
CW
7/11/08

Curve not valid for SO₄²⁻ analysis.
CW
7/11/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICB
Data File Name : ...\\710_011.DXD
Method File Name : ...\\20080710.met
Date Time Collected : 7/10/08 18:48:13

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.10.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

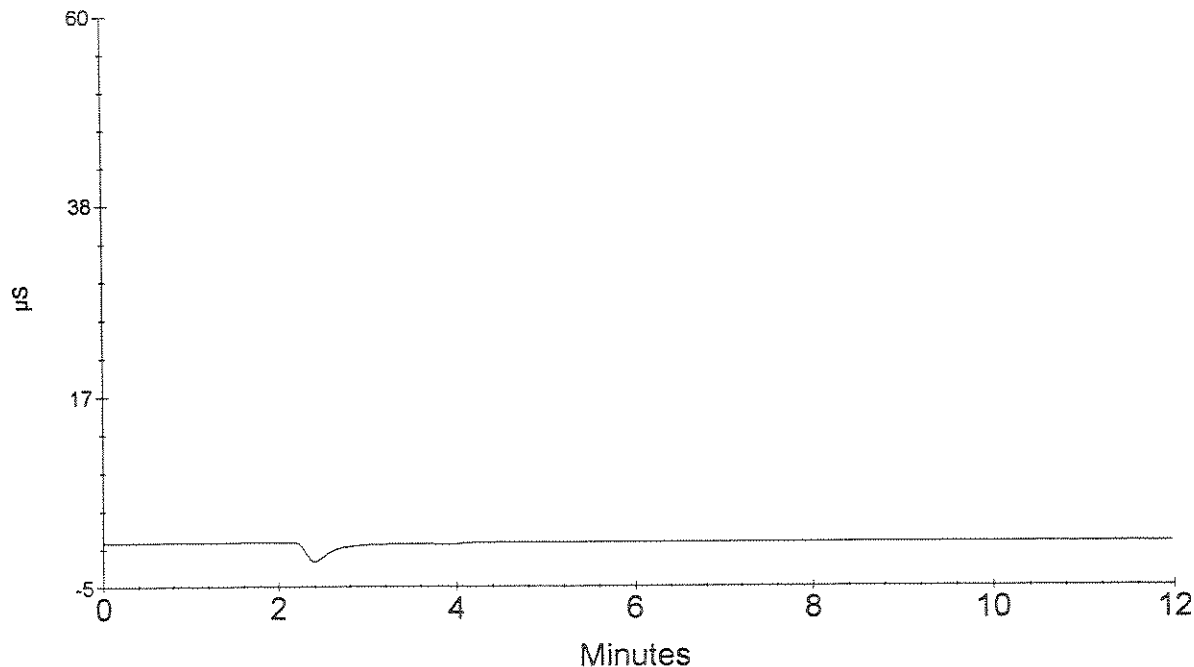
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK
[Signature]
7/11/08

ICB



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : LCS
 Data File Name : ...\\710_012.DXD
 Method File Name : ...\\20080710.met
 Date Time Collected : 7/10/08 19:02:33

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.10.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

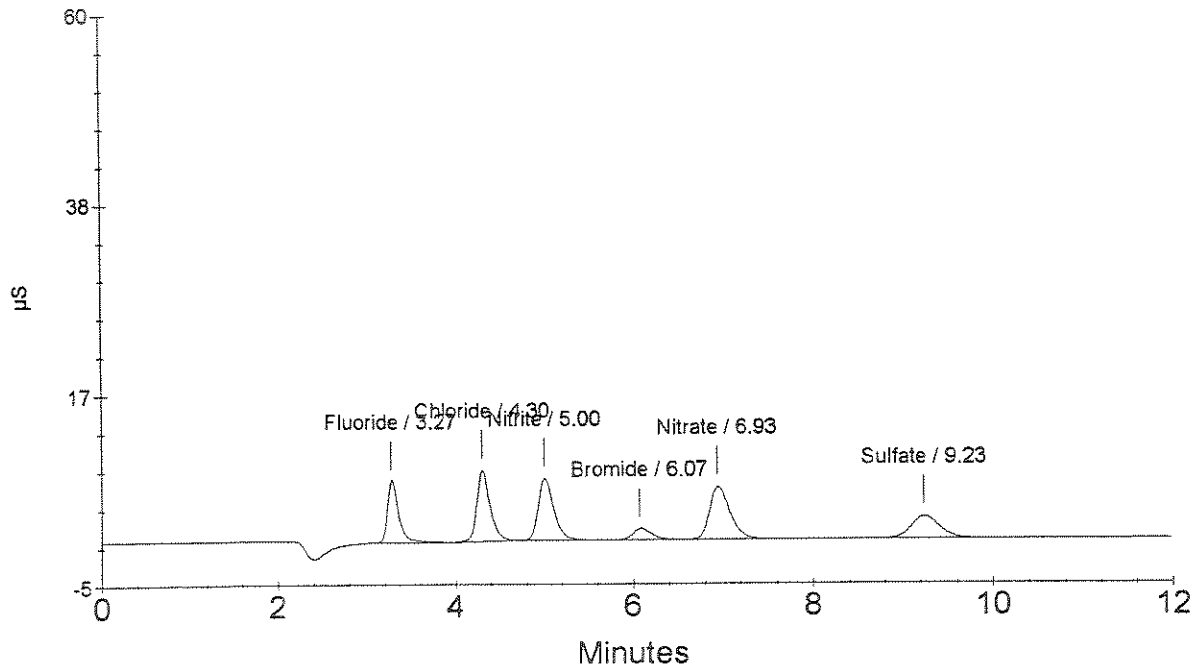
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.27	Fluoride	0.966	631941
2	4.30	Chloride	1.791	832583
3	5.00	Nitrite	0.954	856913
4	6.07	Bromide	1.073	182229
5	6.93	Nitrate	0.914	940921
6	9.23	Sulfate	2.152	554582

Handwritten notes:
 A vertical arrow points from the top of the table down to the peak at 6.93 minutes.
 Below the arrow, there is a signature and the date "7/11/08".

LCS



Method Report - 20080710.met

Method Information : Select Module(s)

System Name : DX-Lan IC#4
System Number : 1
Method Type : Ion Chromatography
Column : AS-14 (022939) AG-14 (022002)
Analyst : C. WOODS
Comment : Calibration 07.10.2008

ED40 Timed Events

Module Name :
Module Serial Number :
Operating Mode : Conductivity
SRS Current : 100 mA
Temperature Compensation : 1.7
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000	*		Low	Low	Open	Closed	
0.00	10.000	*		Low	Low	Open	Closed	
0.10	10.000			Low	Low	Closed	Closed	
2.20	0.010	*		Low	Low	Open	Closed	Begin

ED40 Detector Parameters

Detector Type : ED40
Data collection time (minutes) : 12.00
Data Collection Rate : 1.00
Real time plot scale maximum (µS) : 60.000
Real time plot scale minimum (µS) : -5.000

ED40 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 15.00
Peak threshold : 3.00
Peak area reject (area counts) : 10.00
Reference peak area reject (area counts) : 1000.00

ED40 Smoothing Parameters

Filter Type : No filter

ED40 Report Data

Report Format File : J:\ACQUDATA\IC\METHOD.AC\lc#4\As14.rpt
Print Sample Analysis : Yes
Print Calibration Update : Yes
Print Check Standard : Yes
System Suitability Tests :
No system suitability tests selected.

ED40 Integration Data Events

Time	Description
0.00	Stop peak detection
2.50	Force baseline at start of all peaks
3.03	Halve peak threshold
3.05	Start peak detection
6.75	Double peak threshold

ED40 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 : mg/L
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

ED40 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.27 min	10.00 %	
Chloride	4.30 min	10.00 %	
Nitrite	5.00 min	10.00 %	
Bromide	6.07 min	10.00 %	
Nitrate	6.87 min	10.00 %	
Sulfate	9.20 min	10.00 %	

ED40 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.27 min	0.05	5
Chloride	4.30 min	0.1	10
Nitrite	5.00 min	0.05	5
Bromide	6.07 min	0.05	5
Nitrate	6.87 min	0.05	5
Sulfate	9.20 min	0.1	10

ED40 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.27 min	Linear	Include	Area	Fluoride	0.00
Chloride	4.30 min	Linear	Include	Area	Fluoride	0.00
Nitrite	5.00 min	Linear	Include	Area	Fluoride	0.00
Bromide	6.07 min	Linear	Include	Area	Fluoride	0.00
Nitrate	6.87 min	Linear	Include	Area	Fluoride	0.00
Sulfate	9.20 min	Linear	Include	Area	Fluoride	0.00

ED40 Component = Fluoride Levels Table

Retention Time : 3.27 min
 Amount units : mg/L
 Replicate unit type : Area
 Number of levels : 9
 Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	36787.5 <i>cm 7/11/08</i>
2	0.05	23624
3	0.10	88255.5
4	0.25	180708
5	0.50	320033
6	1.00	620779
7	2.50	1.63018e + 006
8	4.00	2.56813e + 006
9	5.00	3.27065e + 006

ED40 Component = Chloride Levels Table

Retention Time : 4.30 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	70747.5 <i>cmw 7/11/08</i>
2	0.10	105687
3	0.20	130731
4	0.50	223123
5	1.00	412873
6	2.00	808630
7	5.00	2.2309e + 006
8	8.00	3.72229e + 006
9	10.00	4.81917e + 006

ED40 Component = Nitrite Levels Table

Retention Time : 5.00 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	70747.5 <i>cmw 7/11/08</i>
2	0.05	37742
3	0.10	73459.5
4	0.25	194895
5	0.50	404176
6	1.00	827577
7	2.50	2.25196e + 006
8	4.00	3.65418e + 006
9	5.00	4.60455e + 006

ED40 Component = Bromide Levels Table

Retention Time : 6.07 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	27470 <i>corr 7/11/08</i>
2	0.05	15181.5
3	0.10	23720
4	0.25	50308
5	0.50	91342.5
6	1.00	169980
7	2.50	416821
8	4.00	659027
9	5.00	826270

ED40 Component = Nitrate Levels Table

Retention Time : 6.87 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5310.5 <i>corr 7/11/08</i>
2	0.05	41482
3	0.10	71739.5
4	0.25	200167
5	0.50	429630
6	1.00	910119
7	2.50	2.60027e + 006
8	4.00	4.39889e + 006
9	5.00	5.66235e + 006

ED40 Component = Sulfate Levels Table

Retention Time : 9.20 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7283 am 7/11/08
2	0.10	180212
3	0.20	80616
4	0.50	120542
5	1.00	238036
6	2.00	459599
7	5.00	1.22329e + 006
8	8.00	2.00212e + 006
9	10.00	2.53631e + 006

ED40 XY Data Parameters

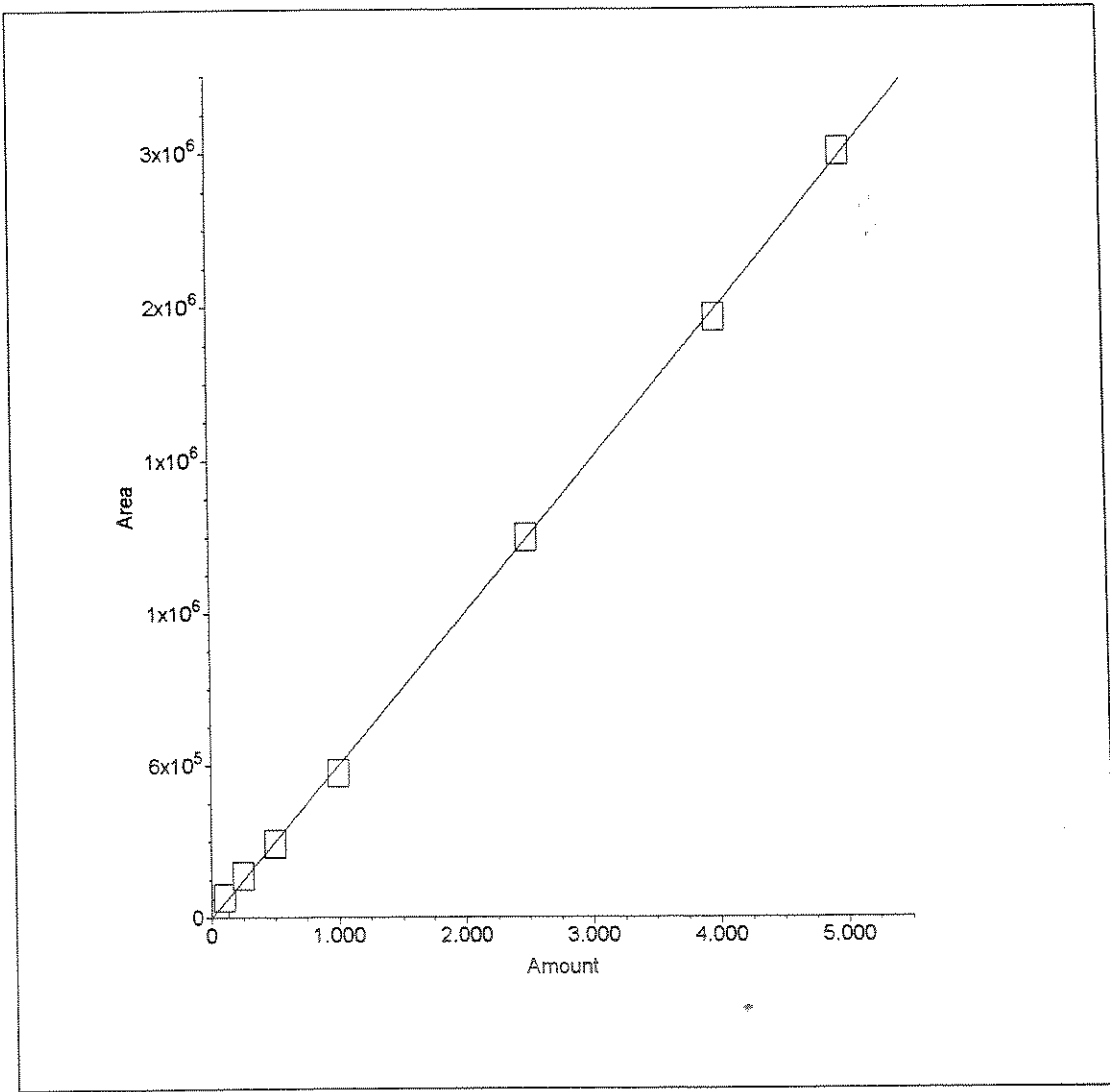
GP40 Timed Events

Module Name :
 Module Serial Number :
 Description : Anions on an AS-16/AG-16 Column setup with a carbonate/bicarbonate eluent.
 High Pressure Limit : 4000.0
 Low Pressure Limit : 30.0
 Eluent A :
 Eluent B : 35mM Na₂CO₃ / 10mM NaHCO₃
 Eluent C :
 Eluent D :
 Piston Size : Standard
 Pressure Unit : psi
 Oven Not Installed

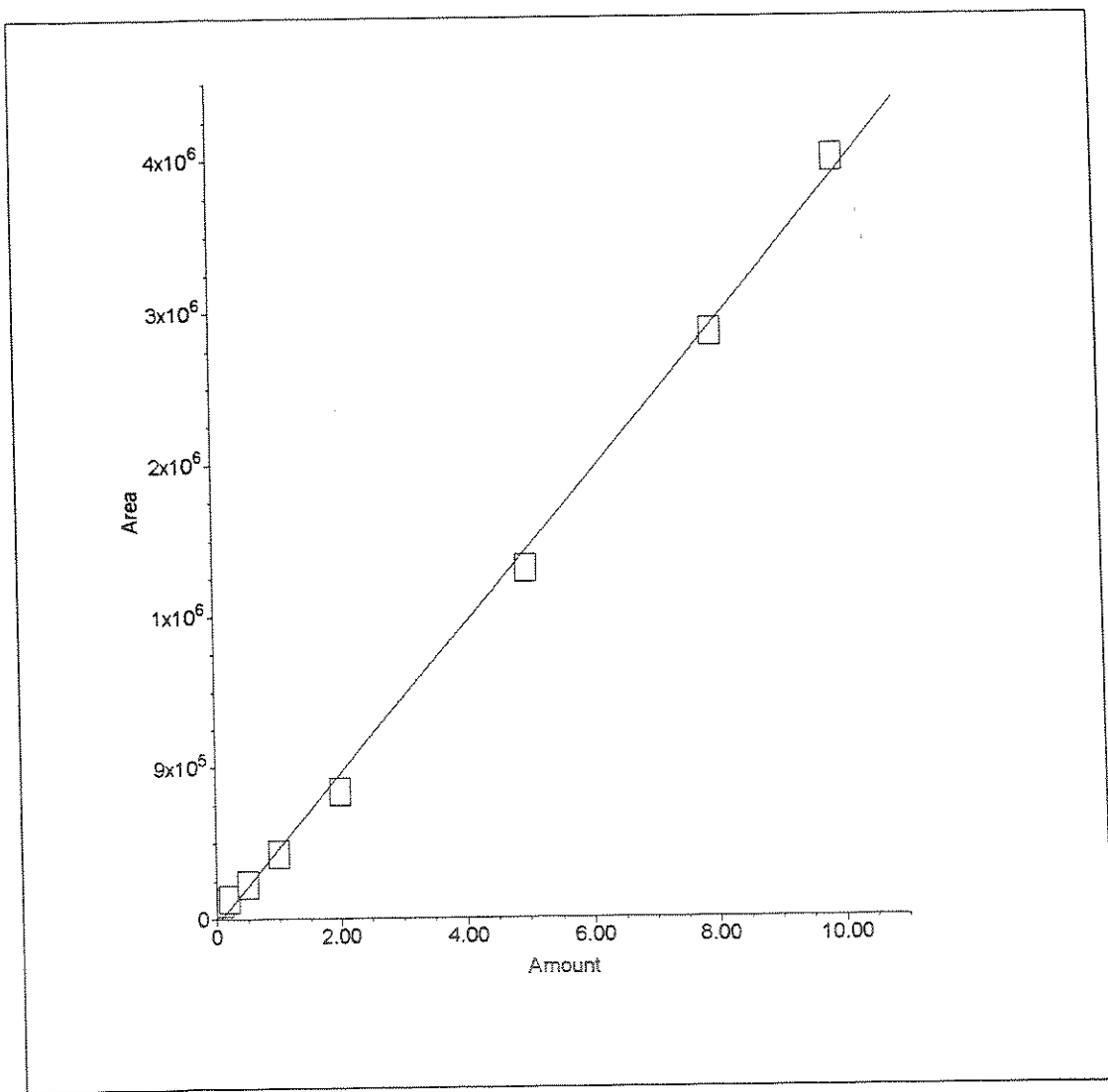
Time	Flow	%A	%B	%C	%D	Curve	Comment
Init	1.00	0.00	100.00	0.00	0.00	5	start AS40 load cycl
0.00	1.00	0.00	100.00	0.00	0.00	5	preparing to inject
0.10	1.00	0.00	100.00	0.00	0.00	5	preparing to inject
2.20	1.00	0.00	100.00	0.00	0.00	5	Injecting sample
3.20	1.00	0.00	100.00	0.00	0.00	5	Finished injection

Time	Valve	Column	TTL1	TTL2	Relay1	Relay2
Init	Load	A	High	Low	Open	Open
0.00	Load	A	High	Low	Open	Open
0.10	Load	A	High	High	Open	Open
2.20	Inject	A	High	Low	Open	Open
3.20	Load	A	Low	Low	Open	Open

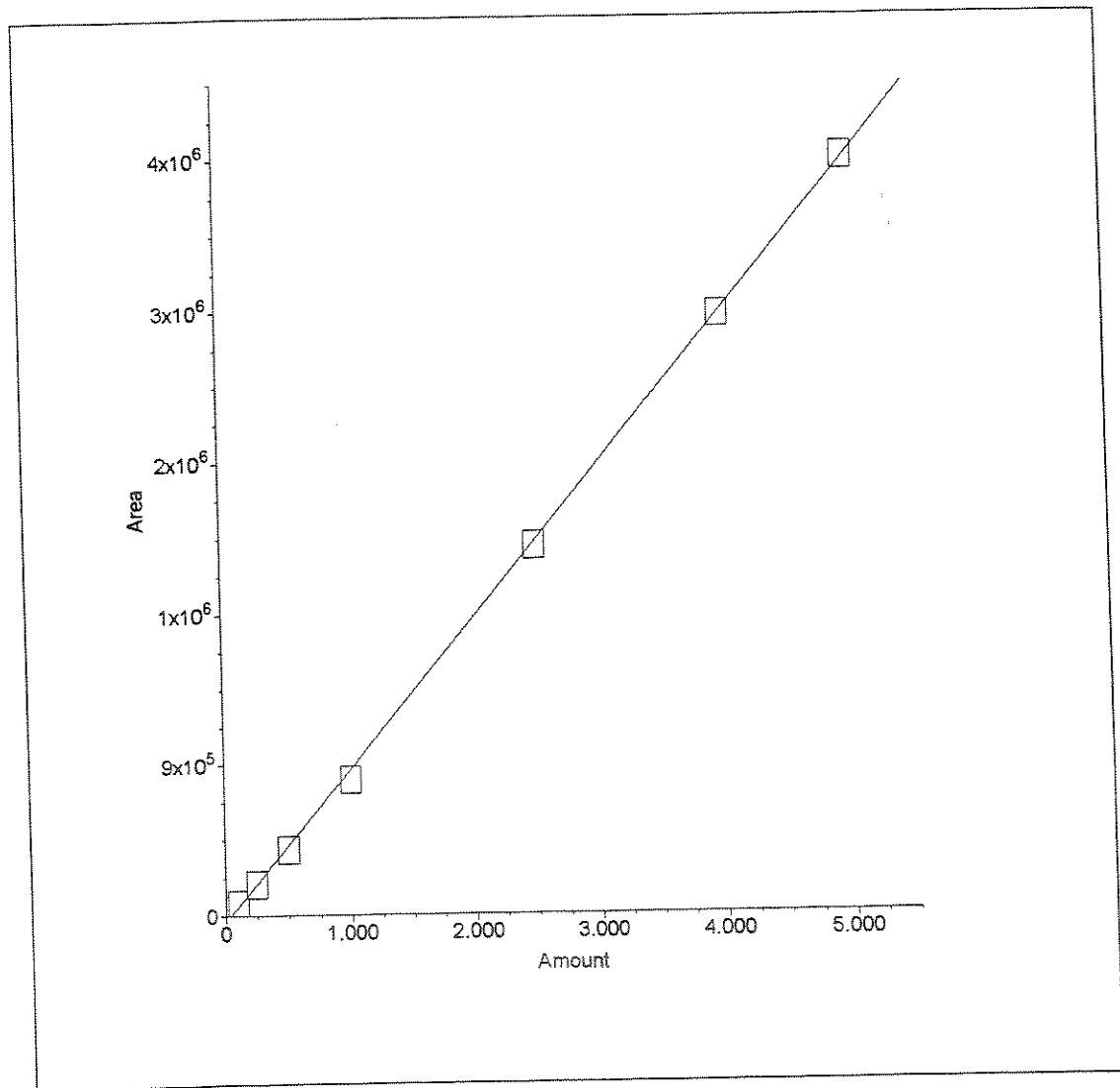
1. Component:Fluoride
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.999729$
Amt= $1.54e-006 * Resp + -0.0003055$



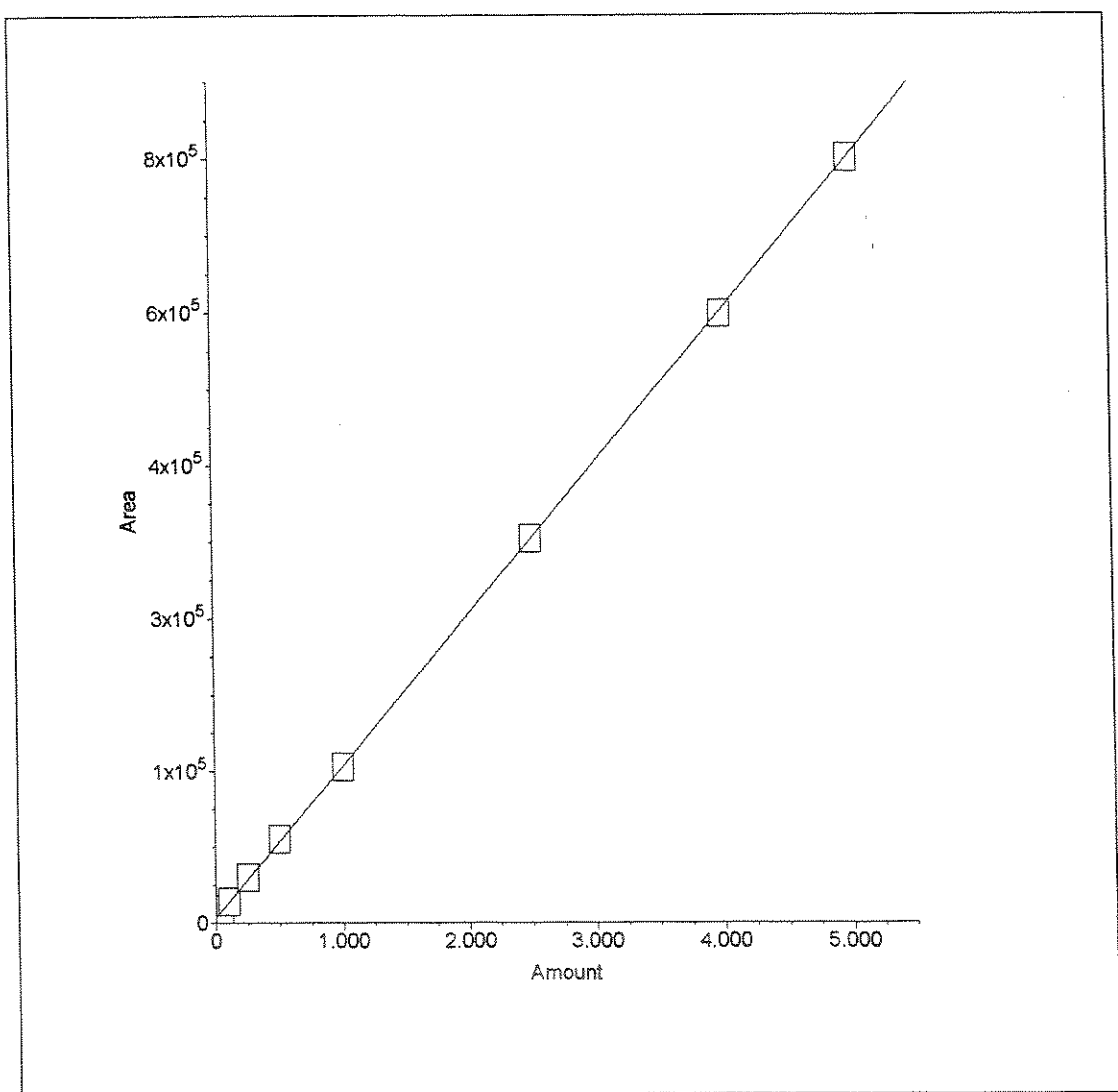
2. Component: Chloride
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2=0.997996$
Amt= $2.107e-006 * Resp + 0.06164$



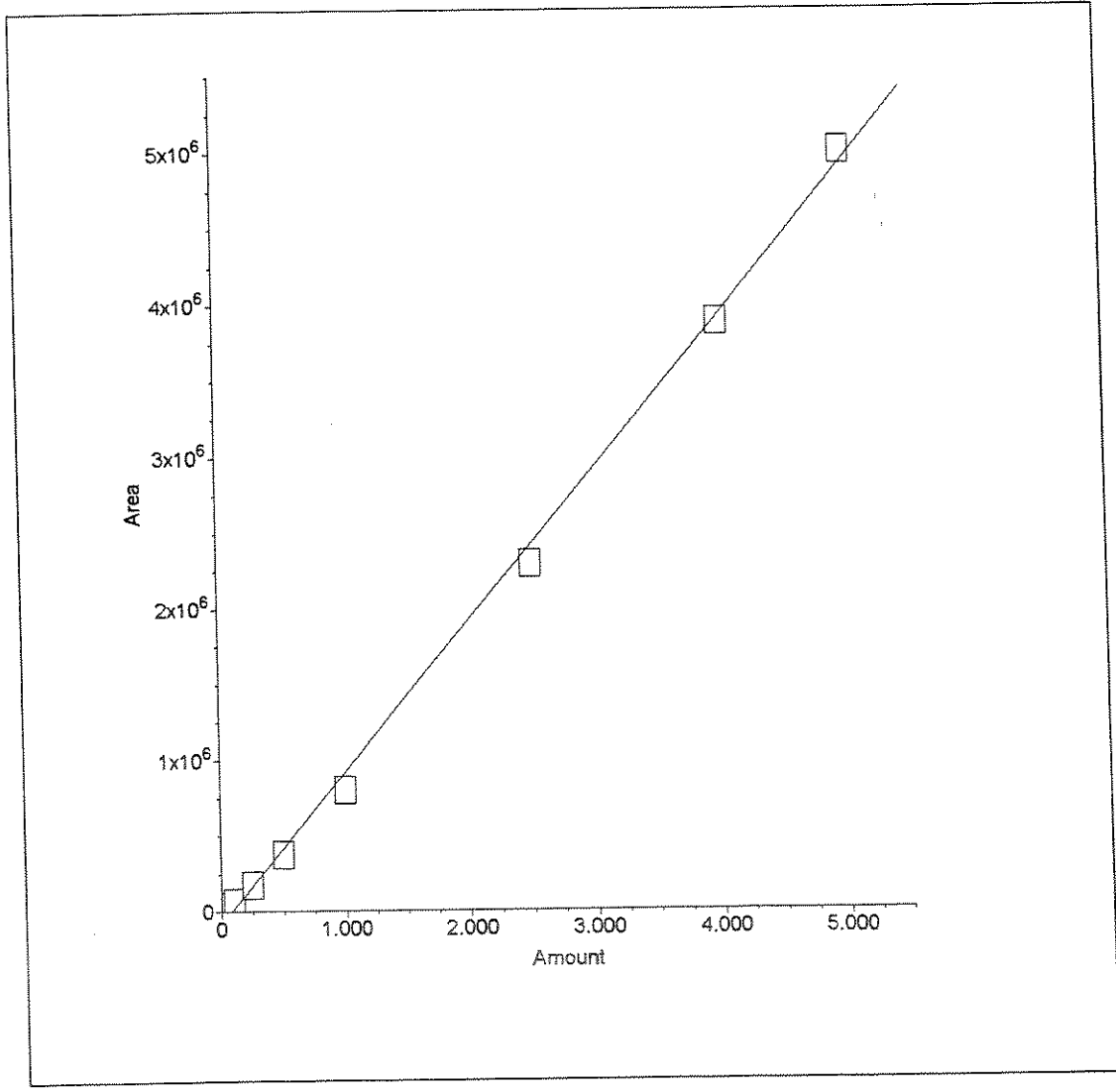
3. Component: Nitrite
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2 = 0.999698$
Amt = $1.083e-006 * Resp + 0.03882$



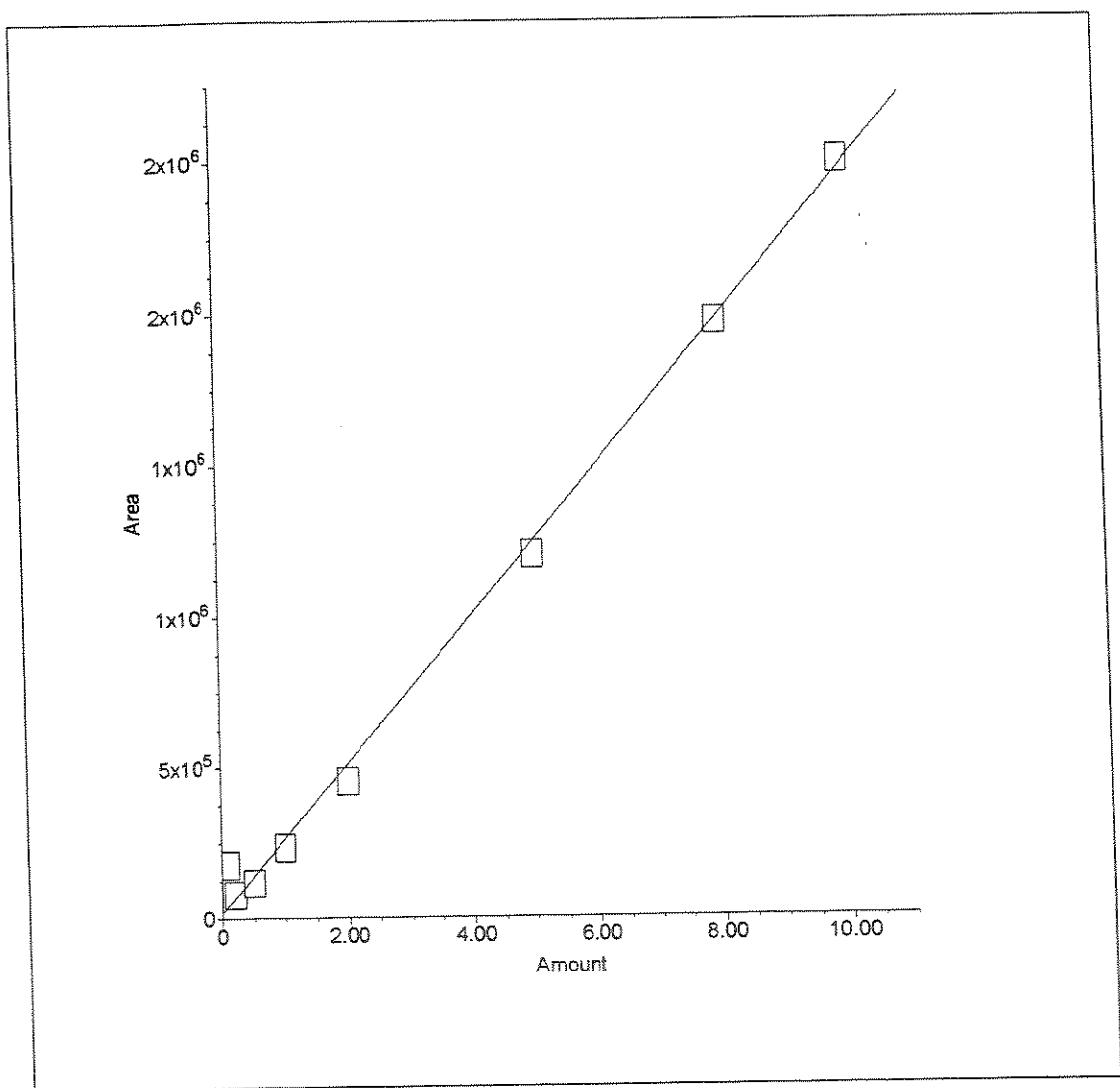
4. Component: Bromide
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2=0.999911$
Amt= $6.107e-006 * Resp + -0.03957$



5. Component:Nitrate
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.998231$
 $Amt=8.852e-007*Resp+0.08098$



6. Component:Sulfate
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.996299$
 $Amt=4.02e-006*Resp+-0.07754$



07-15-08

Data Manually Entered

Analyst: CWoods
 Spets: Mine
 Wey

NOT LISTED
 WOODS

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
1	CCV	Sample		20080714.met	715_001.dxd	1	
2	CCB	Sample		20080714.met	715_002.dxd	1	
3	LCS	Sample		20080714.met	715_003.dxd	1	
4	MTD BLK 6/26/08	Sample		20080714.met	715_004.dxd	1	25g -> 250mL (B)
5	1112361	Sample		20080714.met	715_005.dxd	1	25g -> 250mL (B)
6	1112362	Sample		20080714.met	715_006.dxd	1	25g -> 250mL (B)
7	1112362 DUP	Sample		20080714.met	715_007.dxd	1	25g -> 250mL (B)
8	1112362 SPK	Sample		20080714.met	715_008.dxd	1	25g -> 250mL (B)
9	1112364	Sample		20080714.met	715_009.dxd	1	25g -> 250mL (B)
10	MTD BLK 7/9/08	Sample		20080714.met	715_010.dxd	1	25g -> 250mL (S)
11	1115726	Sample		20080714.met	715_011.dxd	400	25g -> 250mL (S)
12	1115727	Sample		20080714.met	715_012.dxd	10	25g -> 250mL (S)
13	1115730	Sample		20080714.met	715_013.dxd	40	25g -> 250mL (S)
14	1115732	Sample		20080714.met	715_014.dxd	4	25g -> 250mL (S)
15	1115733	Sample		20080714.met	715_015.dxd	4	25g -> 250mL (S)
16	1115734	Sample		20080714.met	715_016.dxd	4	25g -> 250mL (S)
17	1115735	Sample		20080714.met	715_017.dxd	20	25g -> 250mL (S)
18	CCV	Sample		20080714.met	715_018.dxd	1	
19	CCB	Sample		20080714.met	715_019.dxd	1	
20	1115736	Sample		20080714.met	715_020.dxd	40	25g -> 250mL (S)
21	1115737	Sample		20080714.met	715_021.dxd	1	25g -> 250mL (S)
22	1115738	Sample		20080714.met	715_022.dxd	40	25g -> 250mL (S)
23	1115739	Sample		20080714.met	715_023.dxd	1000	25g -> 250mL (S)
24	MTD BLK 7/10/08	Sample		20080714.met	715_024.dxd	1	25g -> 250mL (S)
25	1116251	Sample		20080714.met	715_025.dxd	100	25g -> 250mL (S)
26	1116253	Sample		20080714.met	715_026.dxd	100	25g -> 250mL (S)
27	1116254	Sample		20080714.met	715_027.dxd	400	25g -> 250mL (S)
28	1116255	Sample		20080714.met	715_028.dxd	10	25g -> 250mL (S)
29	1116256	Sample		20080714.met	715_029.dxd	1	25g -> 250mL (S)
30	1116257	Sample		20080714.met	715_030.dxd	100	25g -> 250mL (S)
31	CCV	Sample		20080714.met	715_031.dxd	1	
32	CCB	Sample		20080714.met	715_032.dxd	1	
33	LCS	Sample		20080714.met	715_033.dxd	1	
34	1116258	Sample		20080714.met	715_034.dxd	200	25g -> 250mL (S)
35	1116264	Sample		20080714.met	715_035.dxd	100	25g -> 250mL (S)
36	1116265	Sample		20080714.met	715_036.dxd	100	25g -> 250mL (S)
37	1116267	Sample		20080714.met	715_037.dxd	2	25g -> 250mL (S)
38	1116269	Sample		20080714.met	715_038.dxd	2	25g -> 250mL (S)
39	1116271	Sample		20080714.met	715_039.dxd	20	25g -> 250mL (S)
40	1116273	Sample		20080714.met	715_040.dxd	100	25g -> 250mL (S)
41	1116274	Sample		20080714.met	715_041.dxd	100	25g -> 250mL (S)
42	1116275	Sample		20080714.met	715_042.dxd	10	25g -> 250mL (S)
43	1116276	Sample		20080714.met	715_043.dxd	2	25g -> 250mL (S)
44	CCV	Sample		20080714.met	715_044.dxd	1	
45	CCB	Sample		20080714.met	715_045.dxd	1	

020002

.ine	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
46	1116277	Sample		20080714.met	715_046.dxd	1000	25g -> 250mL (S)
47	1116277 DUP	Sample		20080714.met	715_047.dxd	1000	25g -> 250mL (S)
48	1116277 SPK	Sample		20080714.met	715_048.dxd	1000	25g -> 250mL (S)
49	1116278	Sample		20080714.met	715_049.dxd	100	25g -> 250mL (S)
50	1116278 DUP	Sample		20080714.met	715_050.dxd	100	25g -> 250mL (S)
51	1116278 SPK	Sample		20080714.met	715_051.dxd	100	25g -> 250mL (S)
52	1116279	Sample		20080714.met	715_052.dxd	200	25g -> 250mL (S)
53	1116279 DUP	Sample		20080714.met	715_053.dxd	200	25g -> 250mL (S)
54	1116279 SPK	Sample		20080714.met	715_054.dxd	200	25g -> 250mL (S)
55	1111267	Sample		20080714.met	715_055.dxd	1000	25g -> 250mL (S)
56	CCV	Sample		20080714.met	715_056.dxd	1	
57	CCB	Sample		20080714.met	715_057.dxd	1	
58	END	Sample		shutdown.met	715	1	

Default Method Path: J:\ACQUDATA\IC\METHOD.ACI\IC#\4

Default Data Path: J:\ACQUDATA\IC\DATA\IC#\A\071508

Comment:

020003

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\715_001.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 11:03:03

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

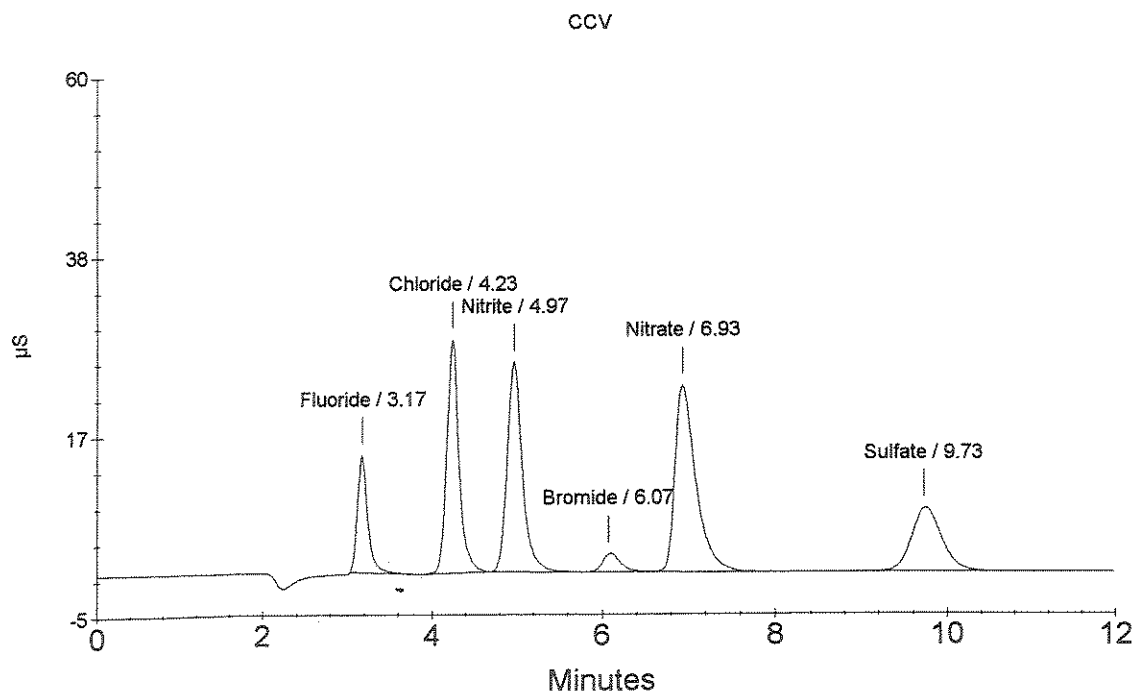
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	1.832	1177026
2	4.23	Chloride	6.138	2837648
3	4.97	Nitrite	3.521	3119700
4	6.07	Bromide	1.934	312281
5	6.93	Nitrate	3.445	3794271
6	9.73	Sulfate	6.541	1839228

OK
OK
7/16/08



Ion Chromatography Analytical Report
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Sample Name : CCB
Data File Name : ...\\715_002.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 11:17:17

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

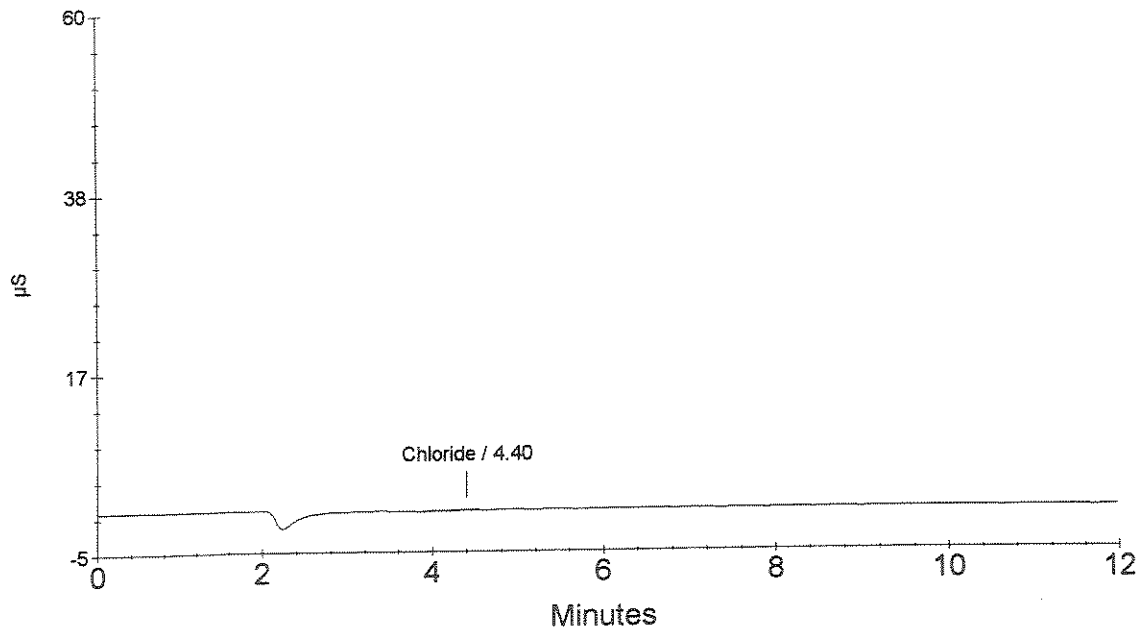
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.40	Chloride	0.156	25714
1	4.40	Chloride	0.156	25714
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
OK
CCB
7/16/08

CCB



Ion Chromatography Analytical Report
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Sample Name : LCS
Data File Name : ...\\715_003.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 11:49:52

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

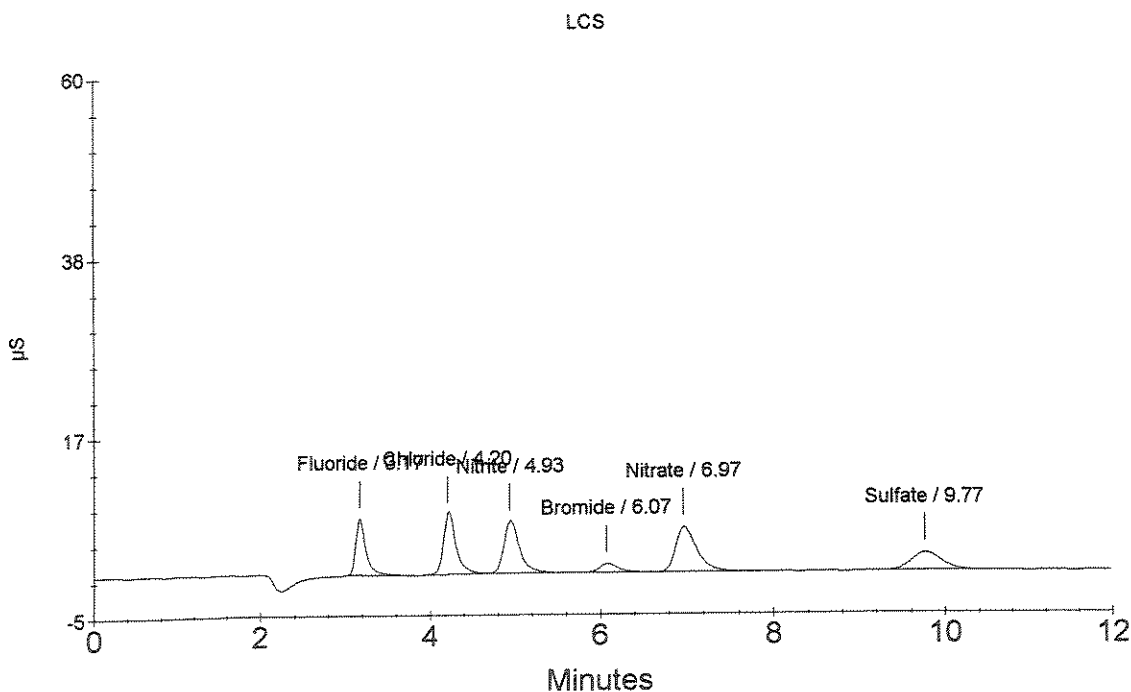
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.891	574209
2	4.20	Chloride	1.753	776521
3	4.93	Nitrite	0.926	792582
4	6.07	Bromide <i>OK</i>	0.983	157958
5	6.97	Nitrate	0.893	910875
6	9.77	Sulfate <i>OK</i>	1.887	519451

CW
7/16/08



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Sample Name : MTD BLK 6/26/08
 Data File Name : ...\\715_004.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 13:14:56

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (B)

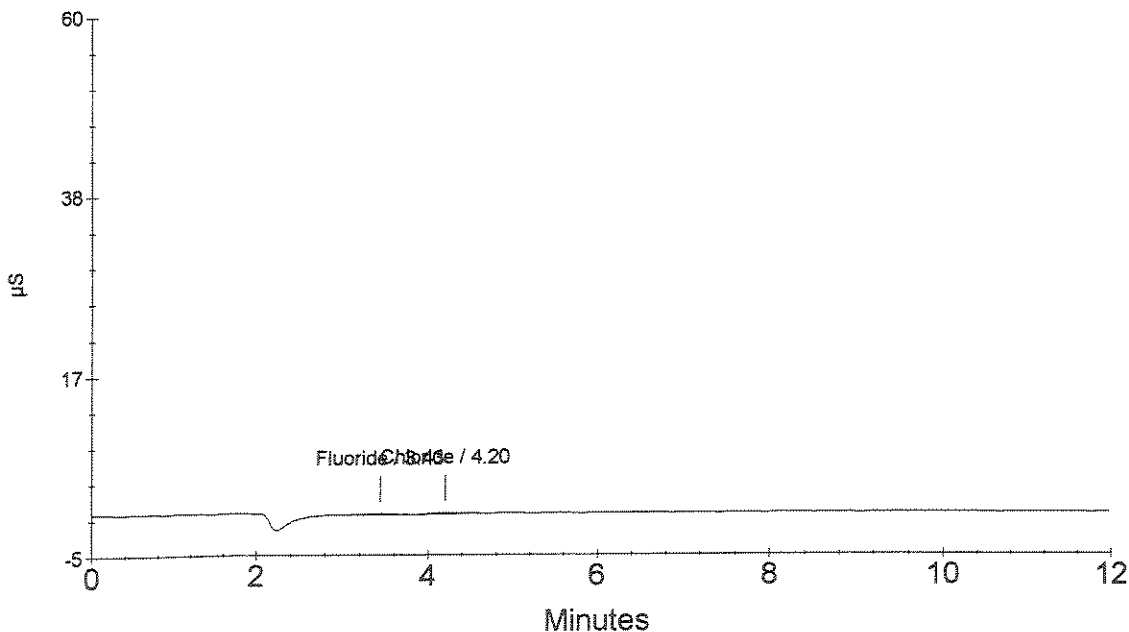
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.43	Fluoride	0.027	20796
2	4.20	Chloride	0.188	40913
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK


MTD BLK 6/26/08



Ion Chromatography Analytical Report
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Sample Name : 1112361
 Data File Name : ...\\715_005.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 14:26:32

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (B)

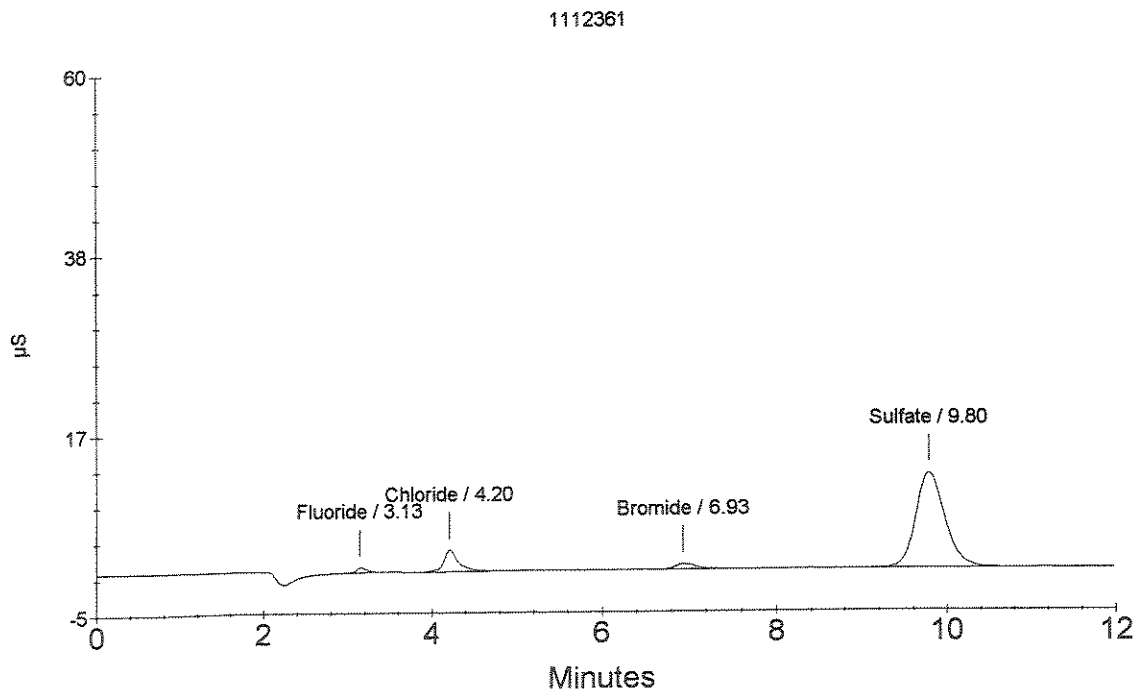
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.13	Fluoride	0.072	49269
2	4.20	Chloride	0.797	327073
3	6.93	Nitrite Bromide <i>OK</i>	0.744	119180
4	9.80	Nitrate Sulfate	9.543	2690281

*X250
25*

*am
7/16/08*



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 Rochester, NY 14607

Sample Name : 1112362
 Data File Name : ...\\715_006.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 14:40:52

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (B)

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

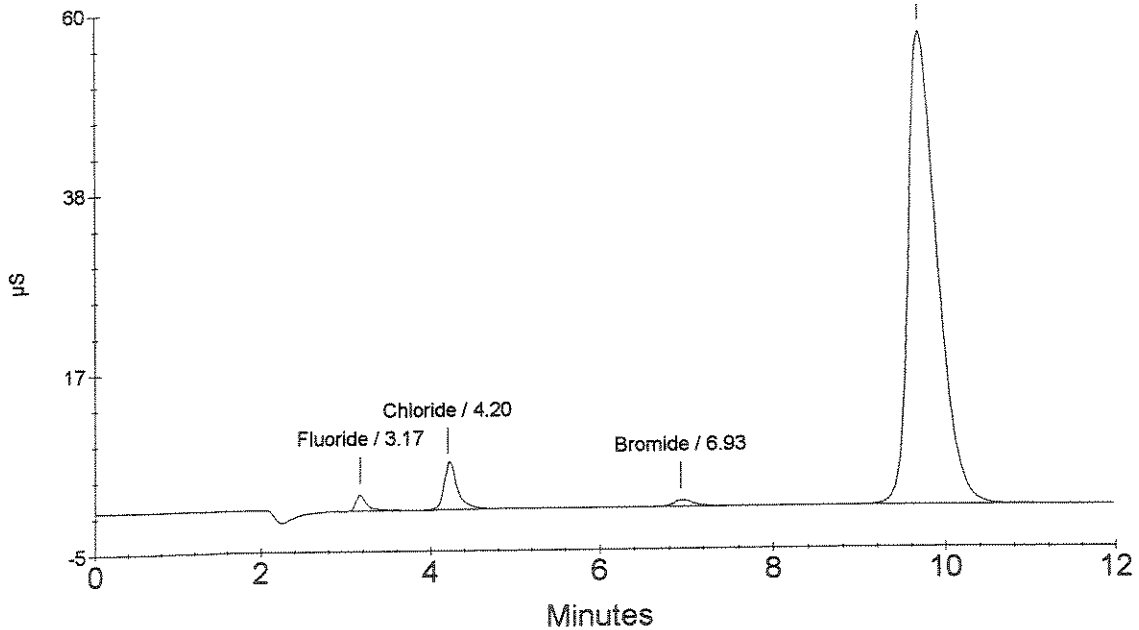
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.285	186135
2	4.20	Chloride	1.442	630501
3	6.93	Nitrite Bromide <i>OK</i>	0.760	121828
4	9.73	Nitrate Sulfate	47.275	13388793

X 250 / 25

7/16/08

1112362



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Sample Name : 1112362 DUP
Data File Name : ...\\715_007.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 14:55:13

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (B)

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

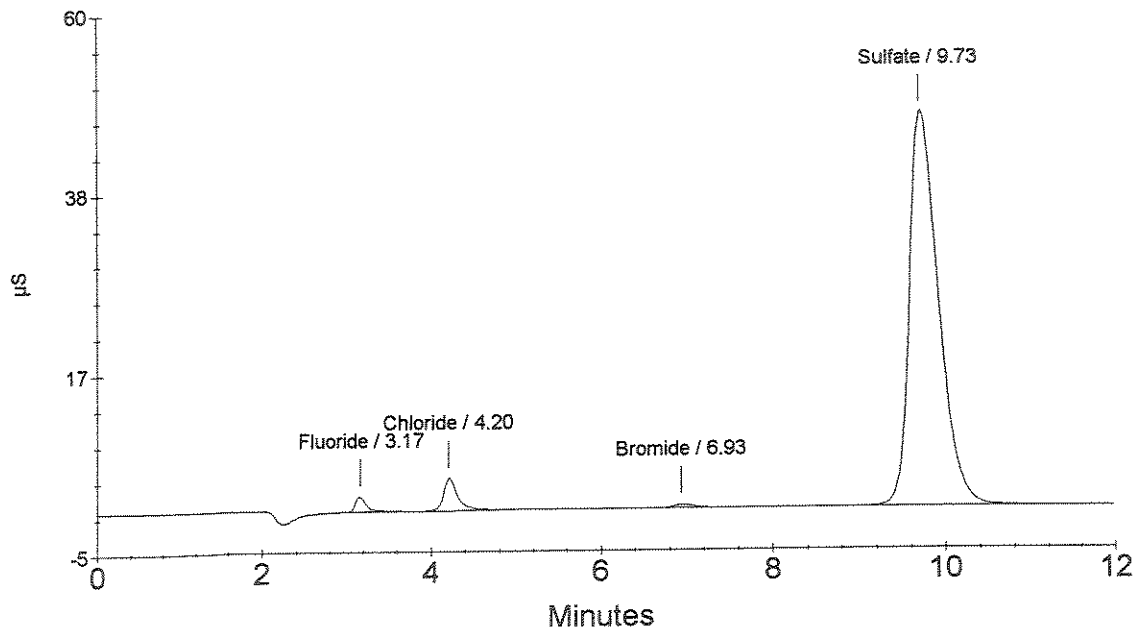
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.267	174736
2	4.20	Chloride	1.097	468086
3	6.93	Nitrite Bromide	0.489	77937
4	9.73	Nitrate Sulfate	39.435	11165738

x250/25

OK

CVT 7/16/08

1112362 DUP



Ion Chromatography Analytical Report
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Sample Name : 1112362 SPK
Data File Name : ...\\715_008.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 15:09:32

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (B)

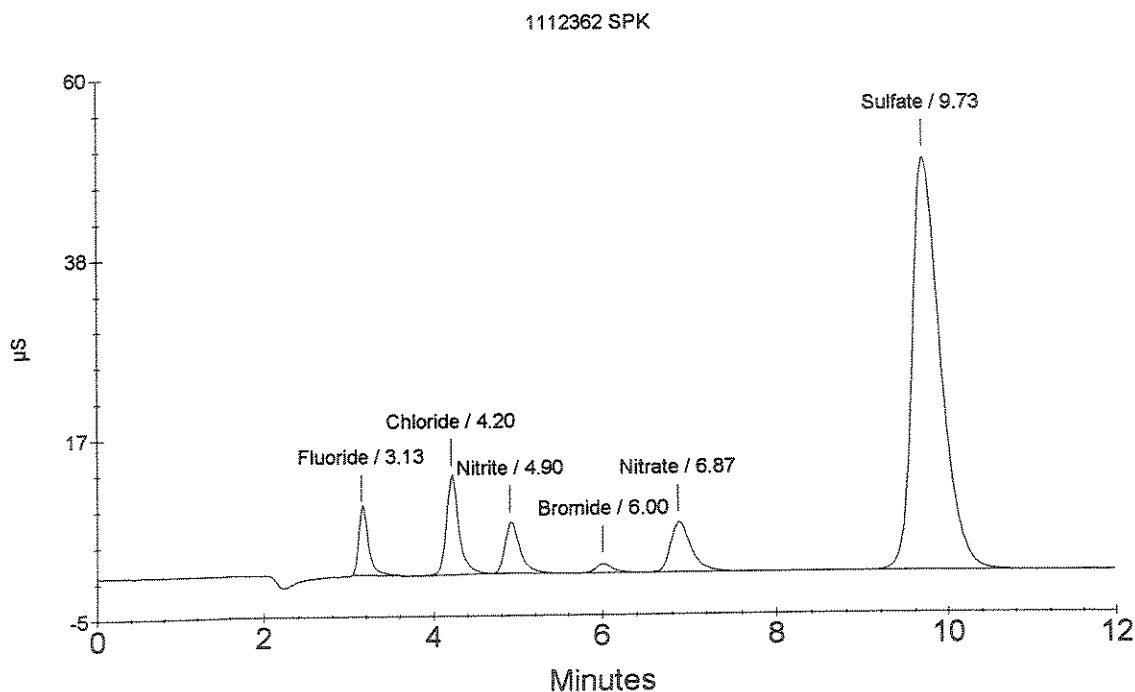
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.13	Fluoride	1.054	678971
2	4.20	Chloride	2.727	1234327
3	4.90	Nitrite	0.877	748574
4	6.00	Bromide <i>OK</i>	0.903	144976
5	6.87	Nitrate	0.957	982883
6	9.73	Sulfate	40.786	11548699

*X 250
7/15/08*

*OK
7/16/08*



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112364
Data File Name : ...\\715_009.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 15:23:51

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (B)

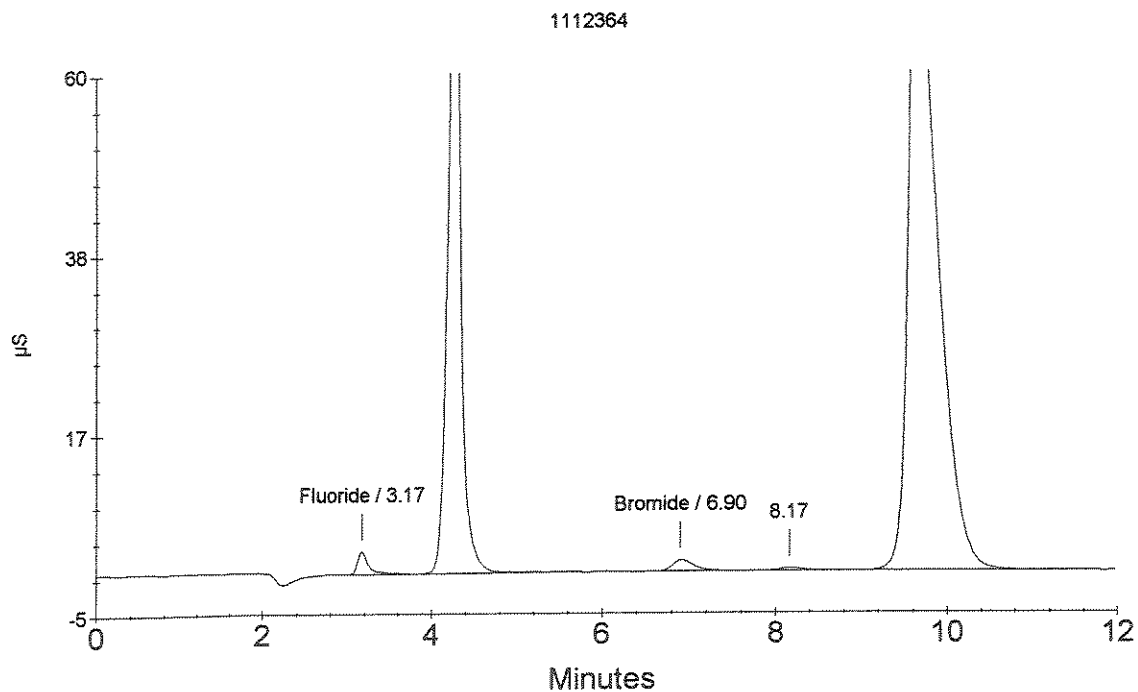
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.391	254209
2	4.27	Chloride	18.257	8533948
3	6.90	Nitrite Bromide <i>OK</i>	1.431	230647
5	9.70	Nitrate Sulfate	64.074	18151901

X250 / 25

*CW
7/16/08*



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MTD BLK 7/9/08
Data File Name : ...\\715_010.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 15:38:10

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

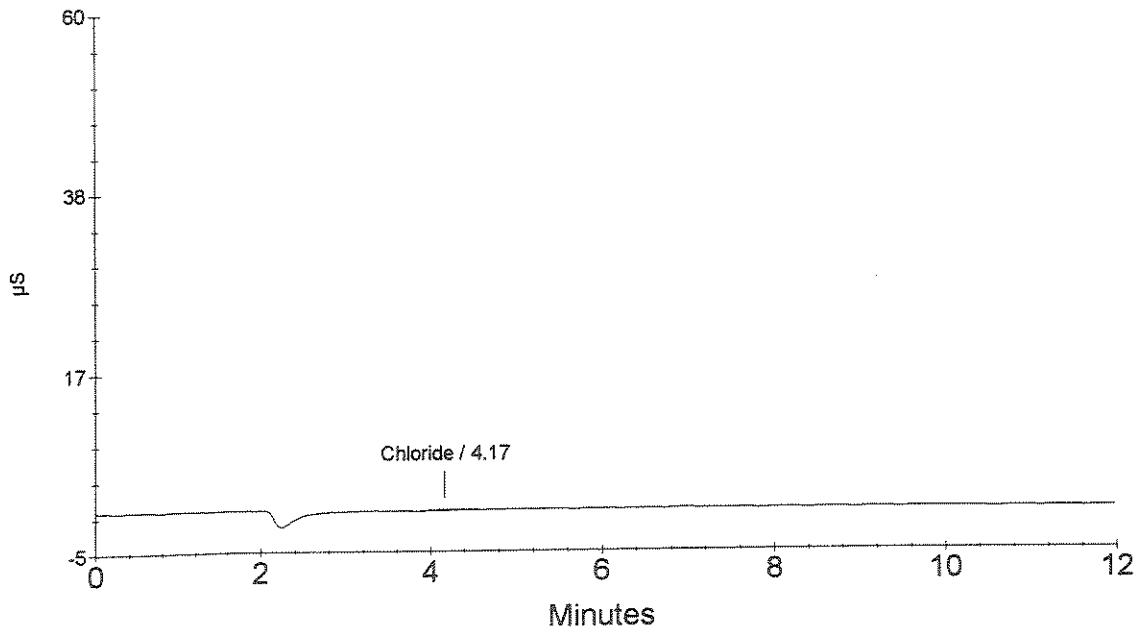
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.17	Chloride	0.169	31904
1	4.17	Chloride	0.169	31904
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
7/16/08

MTD BLK 7/9/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115726
 Data File Name : ... \715_011.DXD
 Method File Name : ... \20080714.met
 Date Time Collected : 7/15/08 15:52:30

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 400.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

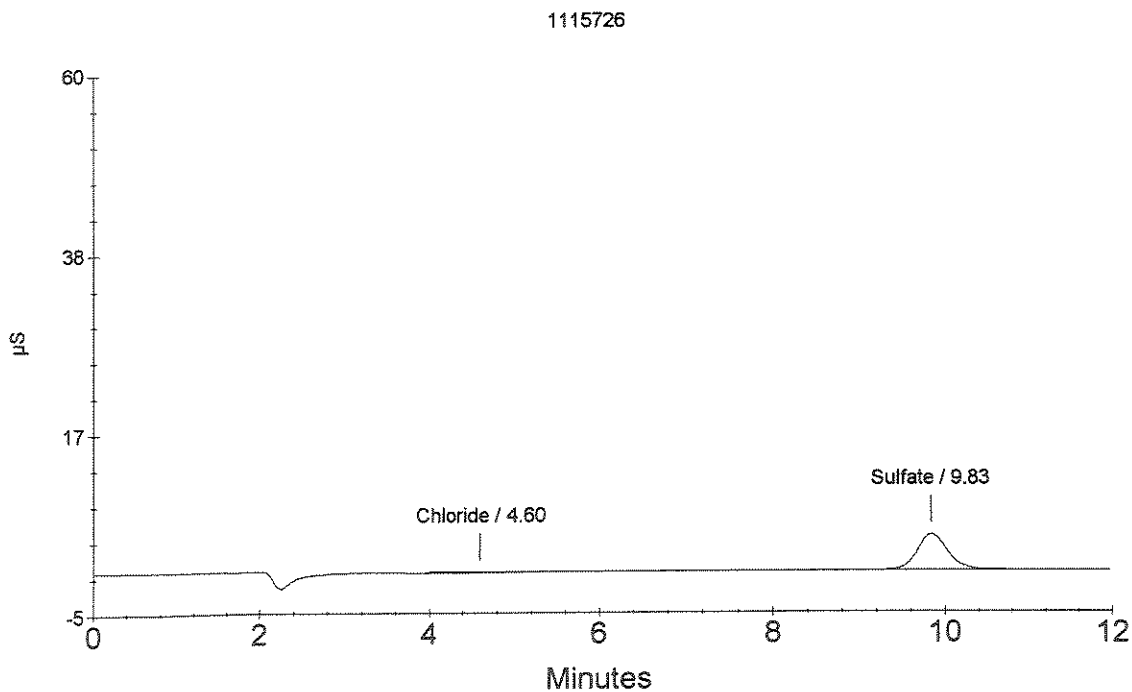
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.60	Chloride	111.453	83493
1	4.60	Chloride Nitrite Bromide Nitrate	111.453	83493
2	9.83	Sulfate	1495.664	1044675

OK
7/16/08

X25/25



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115727
Data File Name : ... \715_012.DXD
Method File Name : ... \20080714.met
Date Time Collected : 7/15/08 16:06:49

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

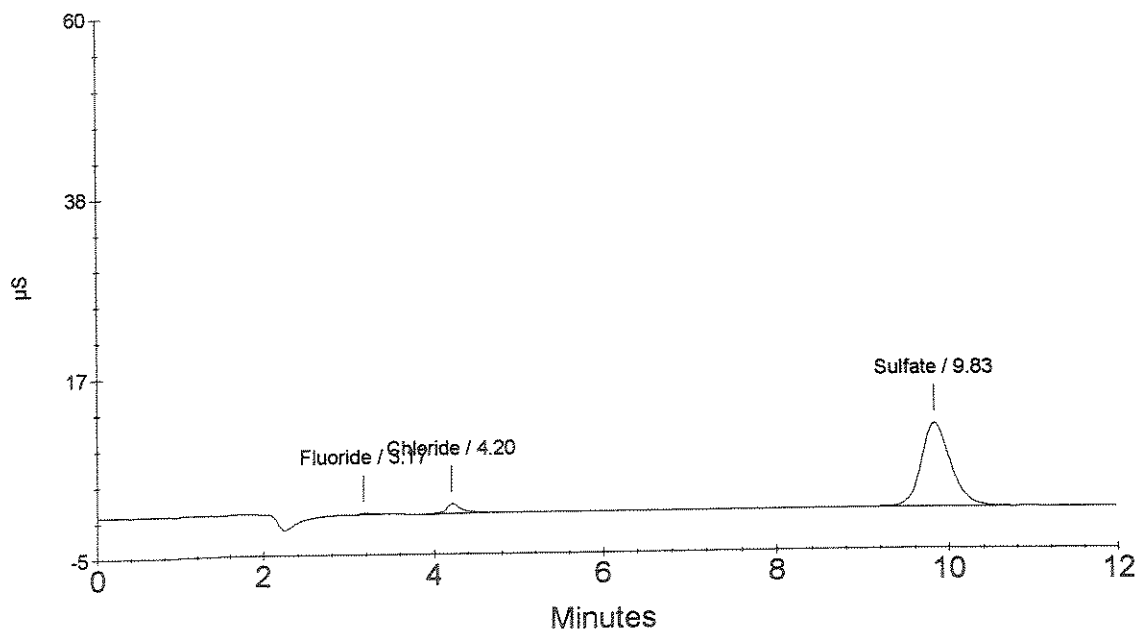
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.159	13542
2	4.20	Chloride Nitrite Bromide	4.249	152267
3	9.83	Nitrate Sulfate	84.580	2382647

OK
CM
7/16/08
x 250 / 25

1115727



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115730
 Data File Name : ... \715_013.DXD
 Method File Name : ... \20080714.met
 Date Time Collected : 7/15/08 16:21:09

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 40.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

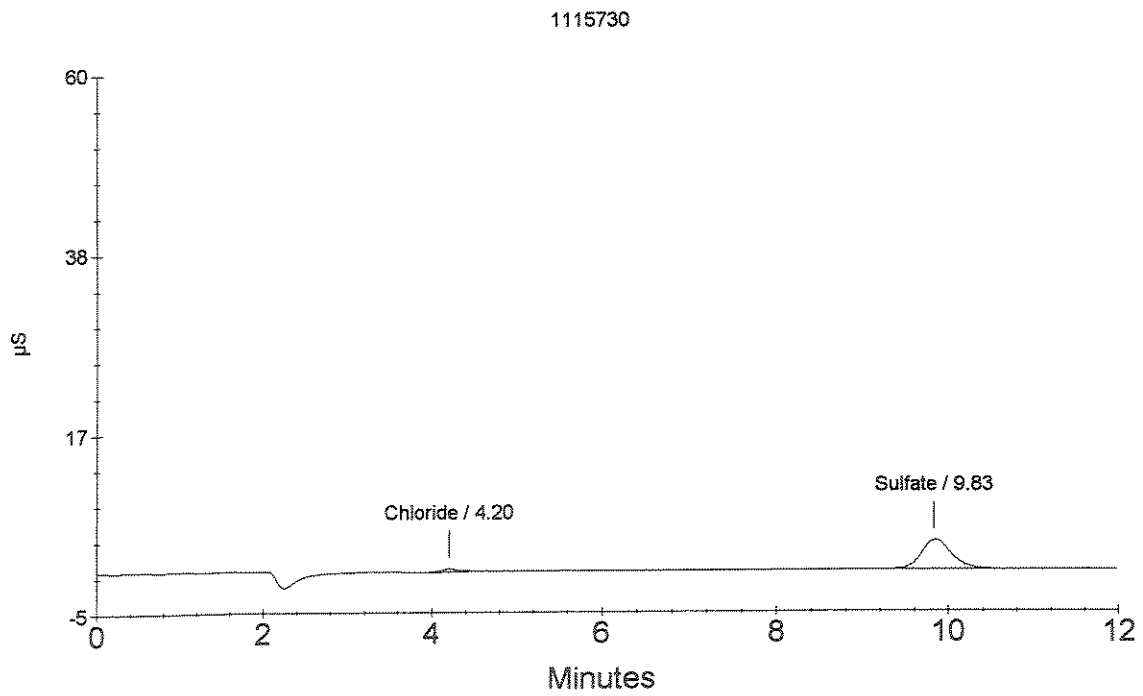
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	8.651	54176
1	4.20	Chloride	8.651	54176
		Nitrite		
		Bromide		
		Nitrate		
2	9.83	Sulfate	120.937	841741

Handwritten:
 7/16/08

Handwritten:
 $\times \frac{250}{25}$



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115732
 Data File Name : ...\\715_014.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 16:35:28

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 4.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

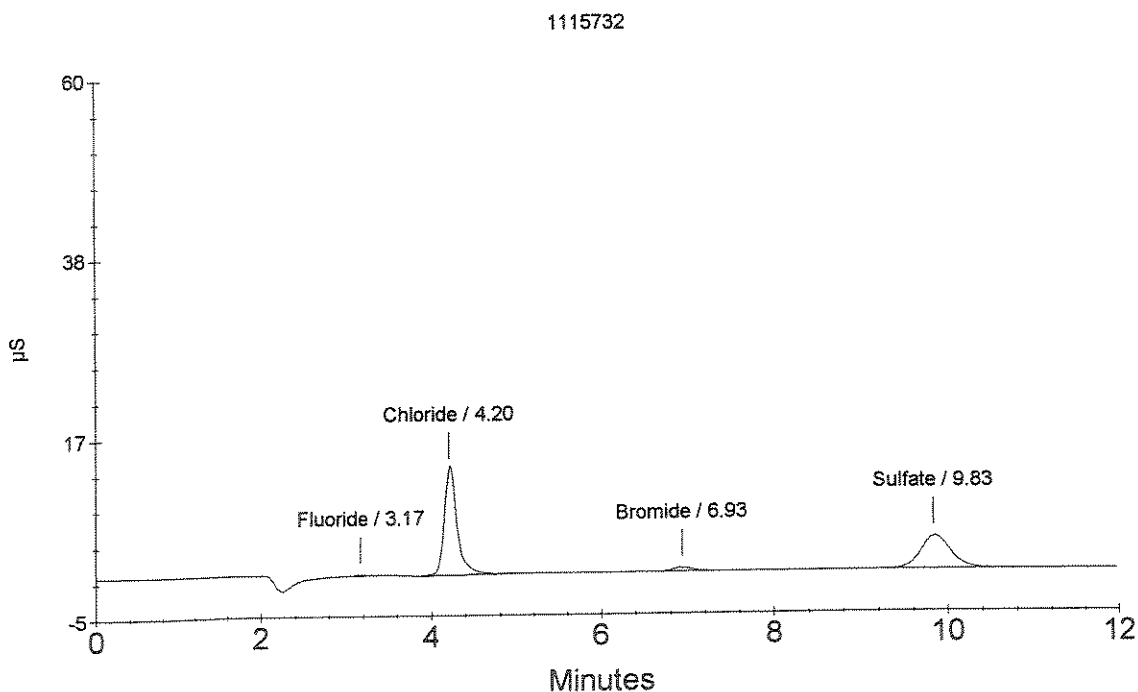
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.045	10633
2	4.20	Chloride Nitrite	12.002	1362874
3	6.93	Bromide	2.145	85556
4	9.83	Nitrate Sulfate	13.970	974726

OK
7/16/08

x 250/25



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115733
 Data File Name : ...\\715_015.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 16:49:48

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 4.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

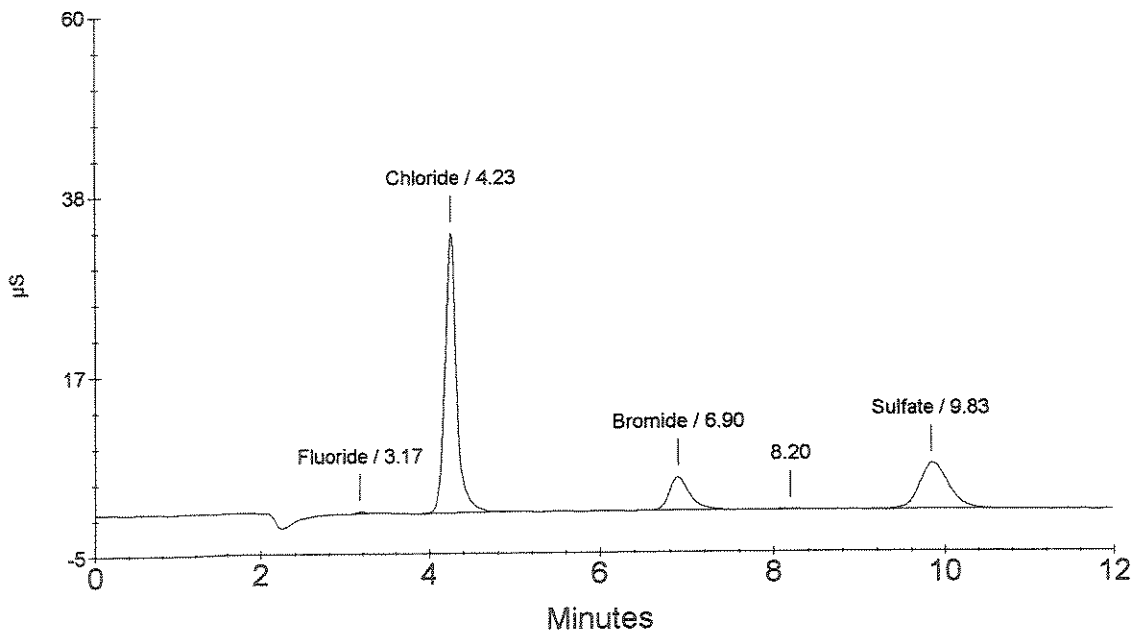
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.076	15515
2	4.23	Chloride	27.684	3205714
3	6.90	Nitrite Bromide	16.196	655249
5	9.83	Nitrate Sulfate	19.319	1353927

OK
9/22
7/16/08

x250
25

1115733



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115734
Data File Name : ...\\715_016.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 17:04:07

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 4.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

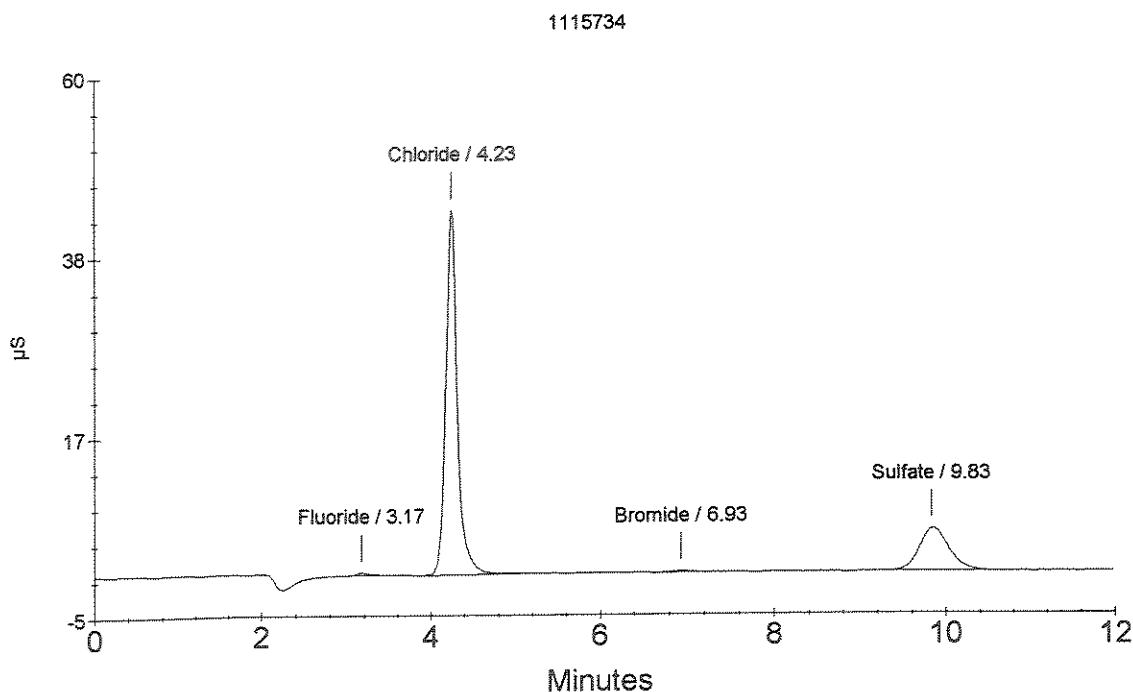
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.142	26198
2	4.23	Chloride	36.147	4200145
		Nitrite		
3	6.93	Bromide	0.649	24909
		Nitrate		
4	9.83	Sulfate	17.526	1226811

OK
7/16/08

x 250 / 25



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115735
 Data File Name : ...\\715_017.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 17:18:25

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 20.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

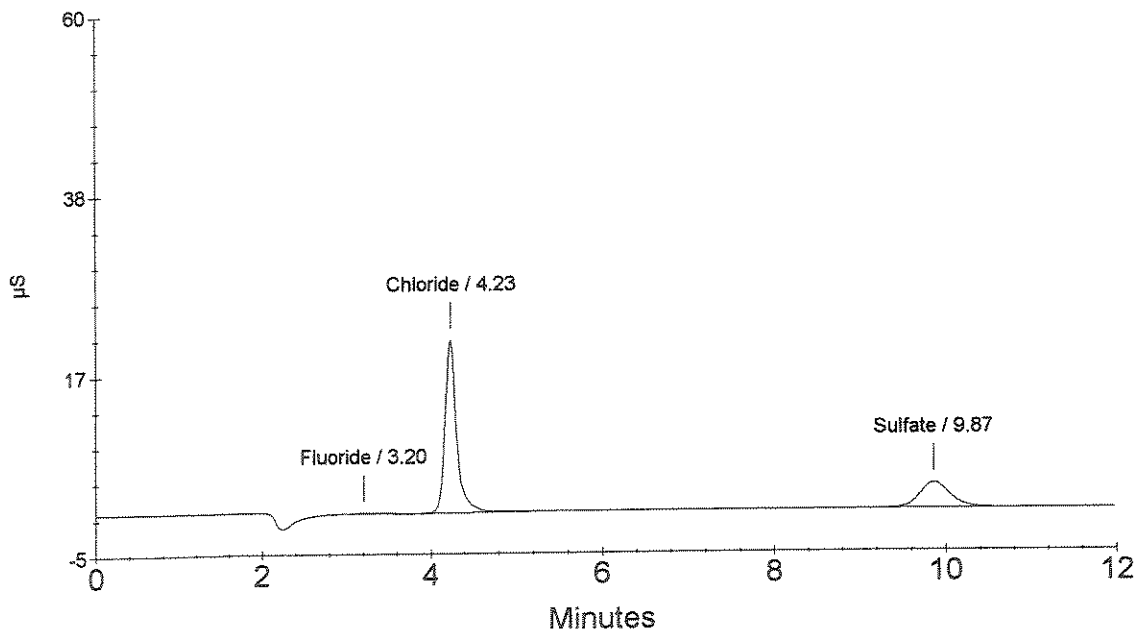
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.842	30348
2	4.23	Chloride Nitrite Bromide	88.593	2034660
3	9.87	Nitrate Sulfate	52.809	733145

OK
6/16/08

X250/25

1115735



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\715_018.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 17:32:45

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

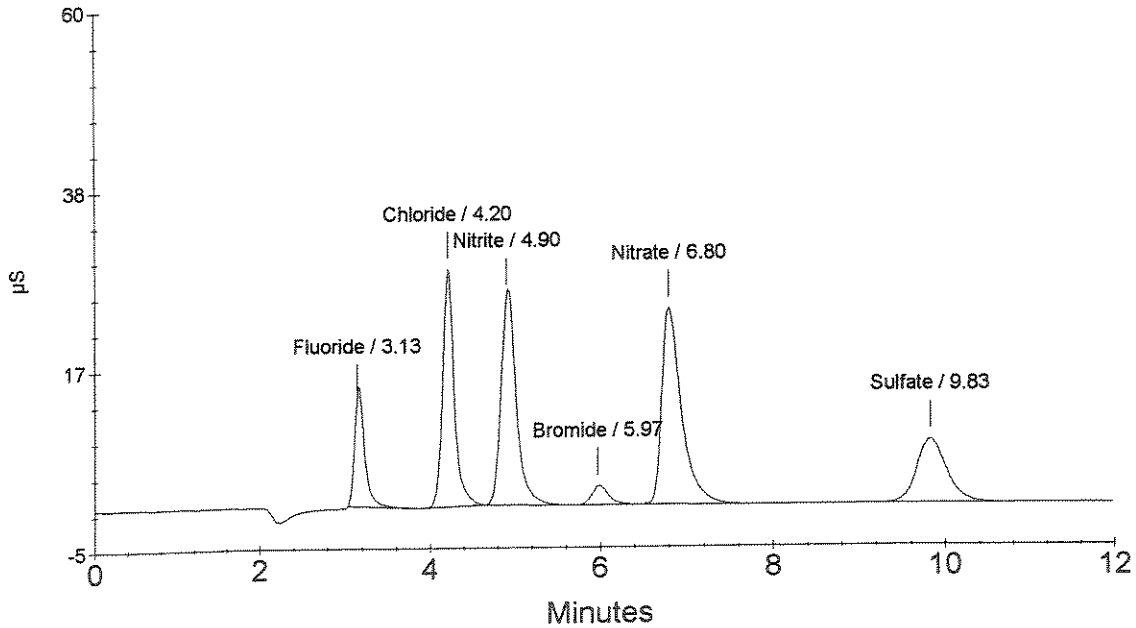
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.13	Fluoride	1.800	1156885
2	4.20	Chloride	5.941	2744969
3	4.90	Nitrite	3.612	3201139
4	5.97	Bromide <i>OK</i>	1.966	317420
5	6.80	Nitrate	3.375	3714894
6	9.83	Sulfate <i>OK</i>	6.458	1815545

CCV
7/16/08

CCV



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCB
 Data File Name : ...\\715_019.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 17:47:04

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

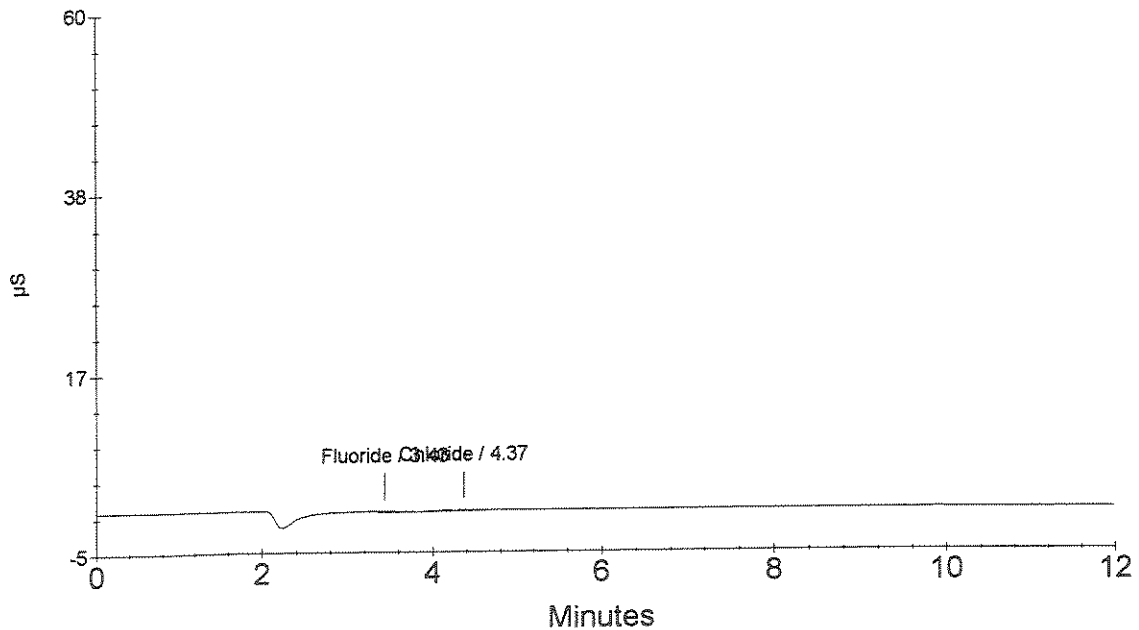
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.43	Fluoride	0.032	24140
2	4.37	Chloride	0.171	32774
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
OK
7/16/08

CCB



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1115736
 Data File Name : ...\\715_020.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 18:01:23

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

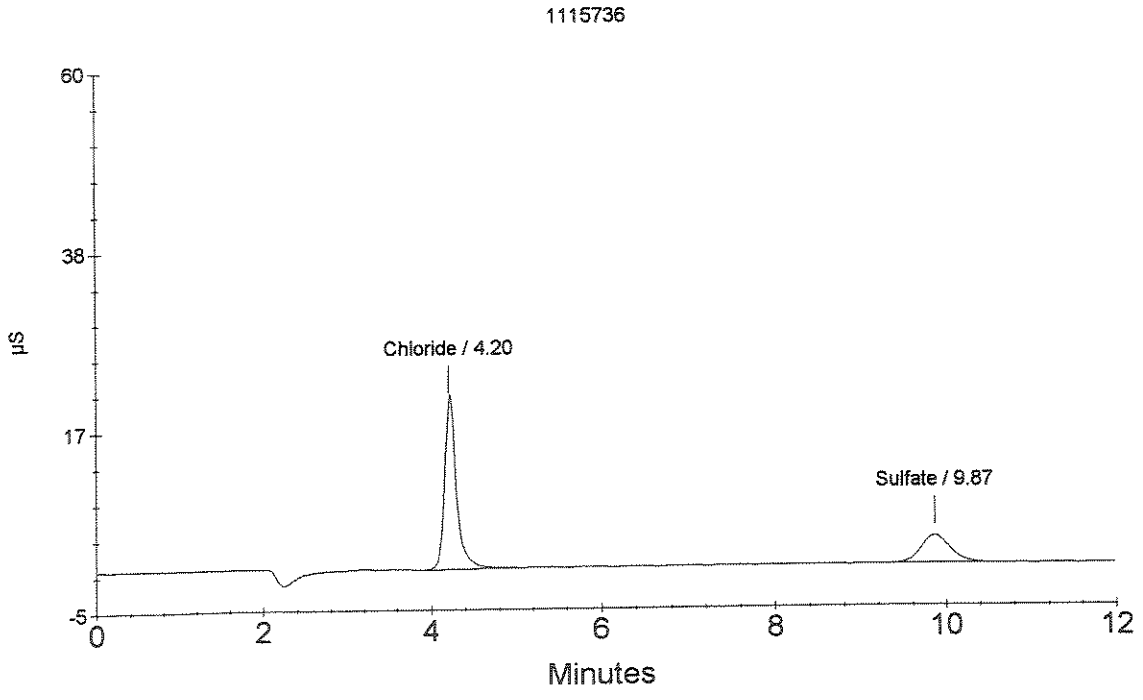
Dilution Factor : 40.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	179.024	2056249
1	4.20	Chloride Nitrite Bromide Nitrate	179.024	2056249
2	9.87	Sulfate	115.505	803233

OK
7/16/08
1250/25



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115737
Data File Name : ...\\715_021.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 18:15:43

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

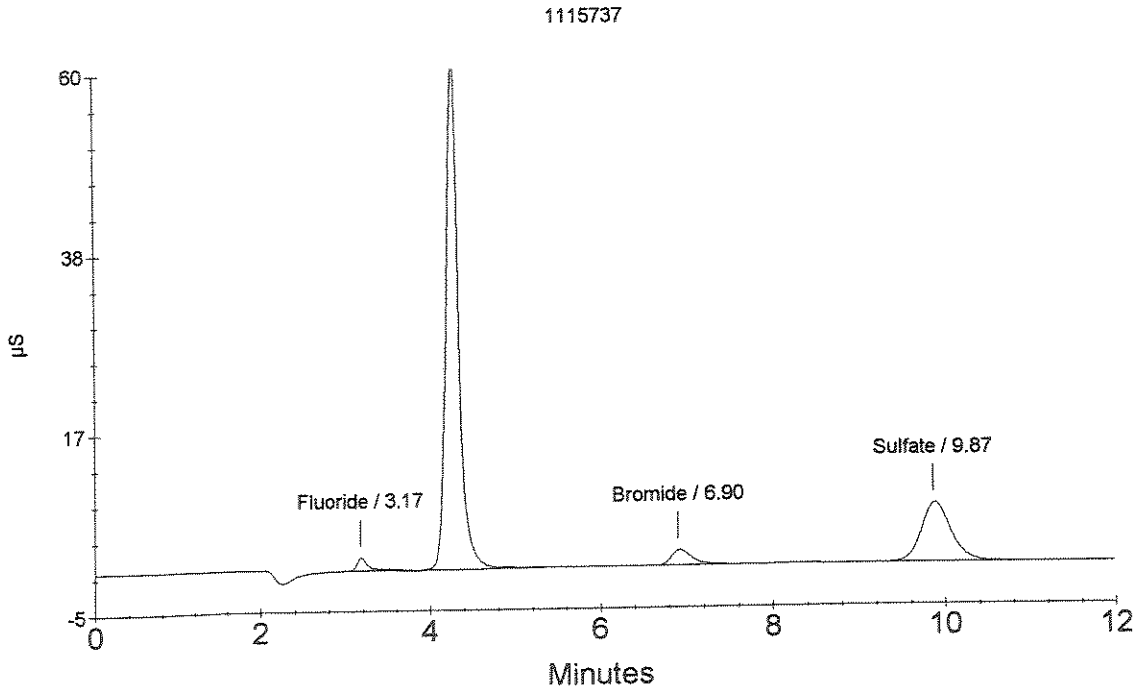
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.248	162053
2	4.27	Chloride Nitrite	13.374	6238769
3	6.90	Bromide	1.898	306426
4	9.87	Nitrate Sulfate	6.053	1700870

OK
cm
7/16/08

x20
25



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115738
Data File Name : ...\\715_022.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 18:30:02

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

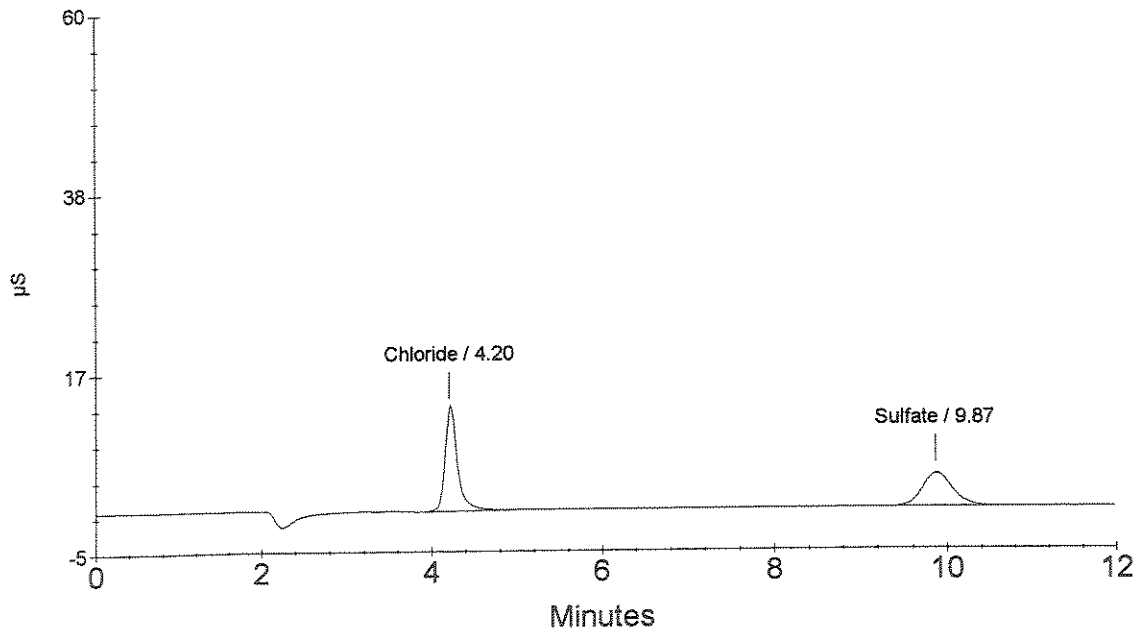
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	114.068	1292940
1	4.20	Chloride	114.068	1292940
		Nitrite		
		Bromide		
		Nitrate		
2	9.87	Sulfate	141.406	986831

OK
7/16/08
+250/25

1115738



Ion Chromatography Analytical Report
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Rochester, NY 14607

Sample Name : 1115739
Data File Name : ...\\715_023.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 18:44:22

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

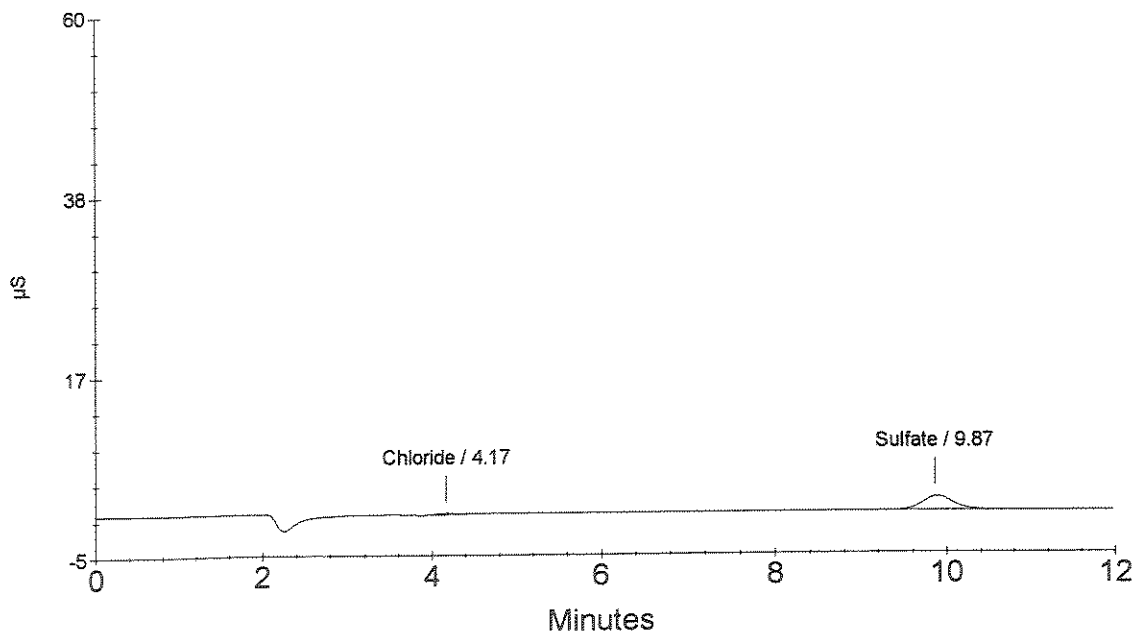
Dilution Factor : 1000.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.17	Chloride	161.066	28231
1	4.17	Chloride Nitrite Bromide Nitrate	161.066	28231
2	9.87	Sulfate <i>OK</i>	1465.103	399898 <i>x 250/25</i>

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7/16/08
1115739



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : MTD BLK 7/10/08
Data File Name : ...\\715_024.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 18:58:41

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

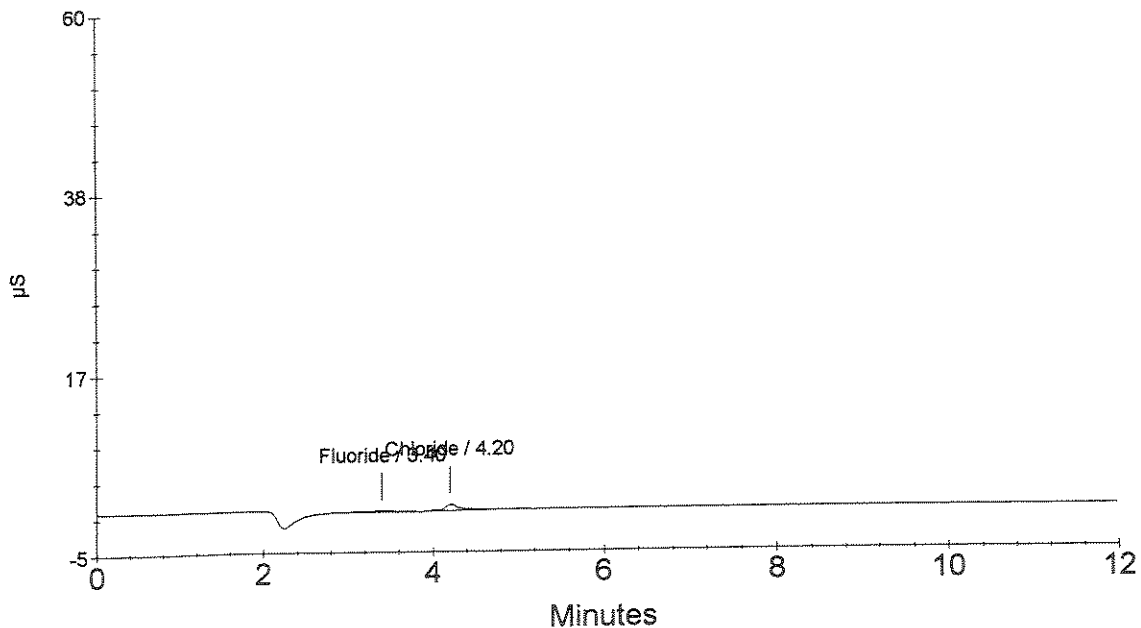
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.40	Fluoride	0.036	26148
2	4.20	Chloride Nitrite Bromide Nitrate Sulfate	0.303	94976

OK
7/16/08

MTD BLK 7/10/08



Ion Chromatography Analytical Report
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 Rochester, NY 14607

Sample Name : 1116251
 Data File Name : ...\\715_025.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 19:12:54

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

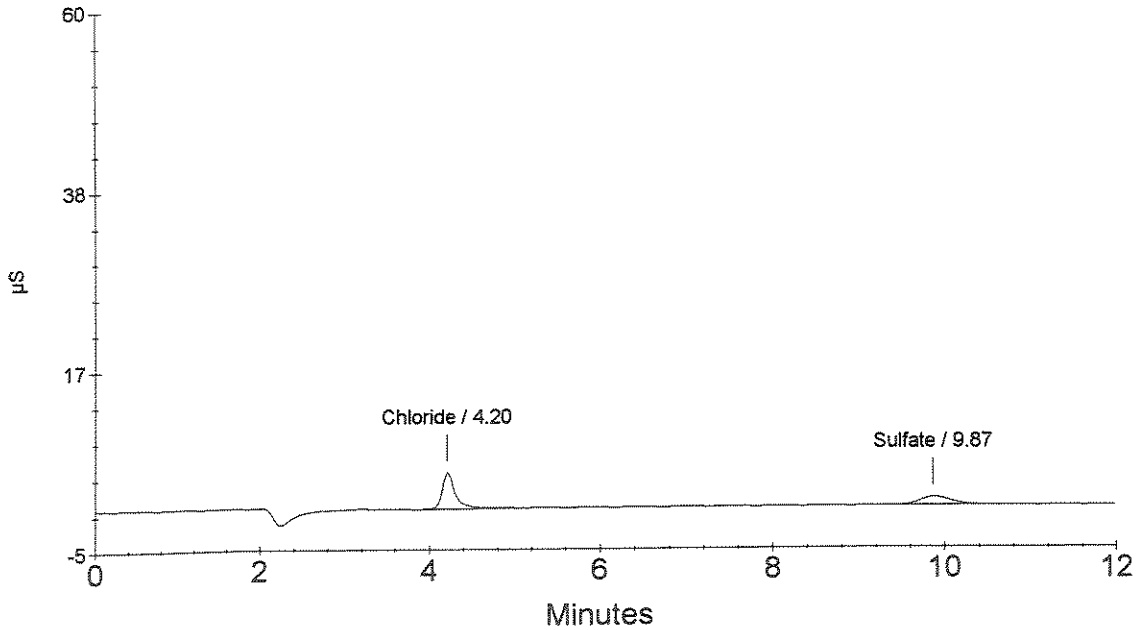
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	112.390	480805
1	4.20	Chloride Nitrite Bromide	112.390	480805
2	9.87	Nitrate Sulfate	91.917	245106

OK
7/16/08

250/25

1116251



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116253
 Data File Name : ...\\715_026.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 19:27:14

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

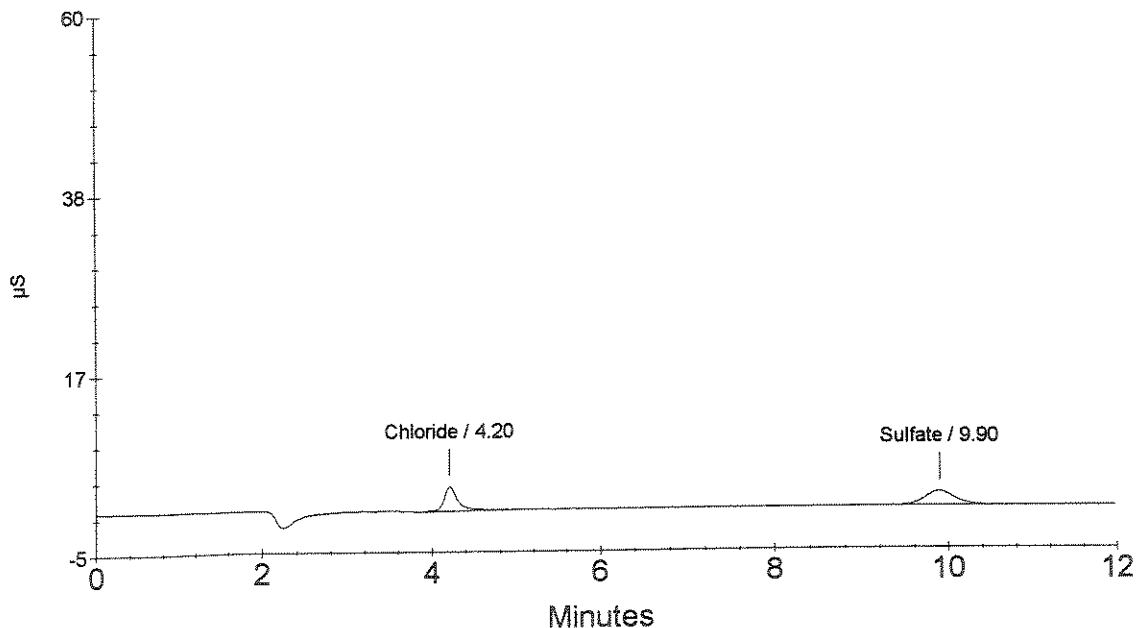
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	83.730	346091
1	4.20	Chloride	83.730	346091
		Nitrite		
		Bromide		
		Nitrate		
2	9.90	Sulfate	155.602	425678

OK
CW
7/16/08

x250/25

1116253



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116254
 Data File Name : ...715_027.DXD
 Method File Name : ...20080714.met
 Date Time Collected : 7/15/08 19:41:33

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 400.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

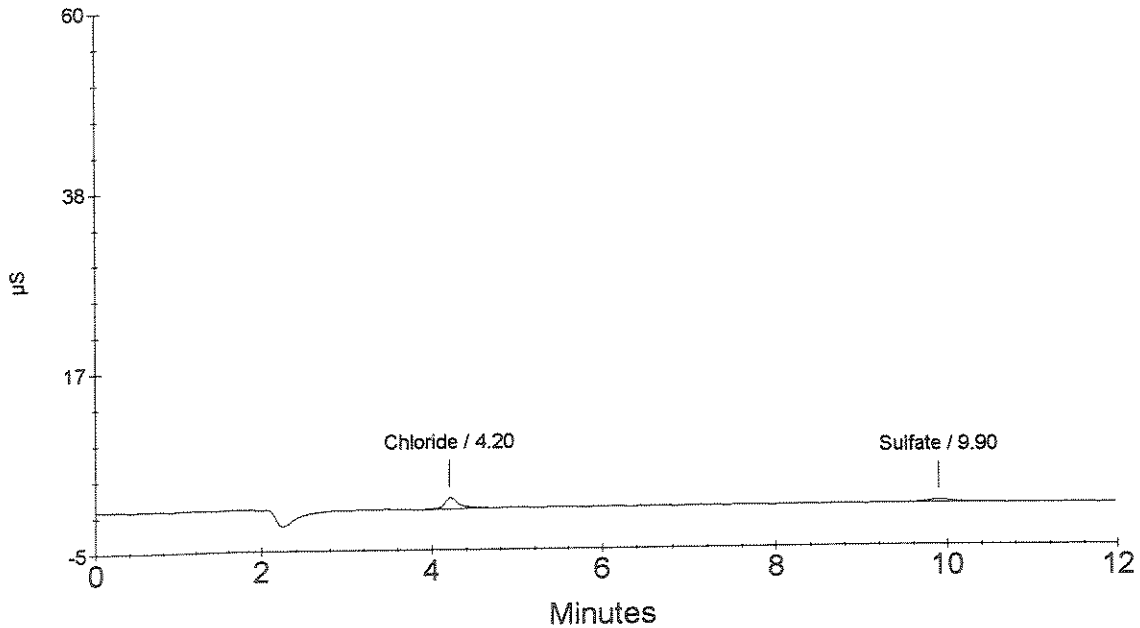
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	181.448	165745
1	4.20	Chloride	181.448	165745
		Nitrite		
		Bromide		
		Nitrate		
2	9.90	Sulfate	133.692	79255

mp 1/100
7/16/08

x250
26

1116254



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116255
Data File Name : ...\\715_028.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 19:55:53

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

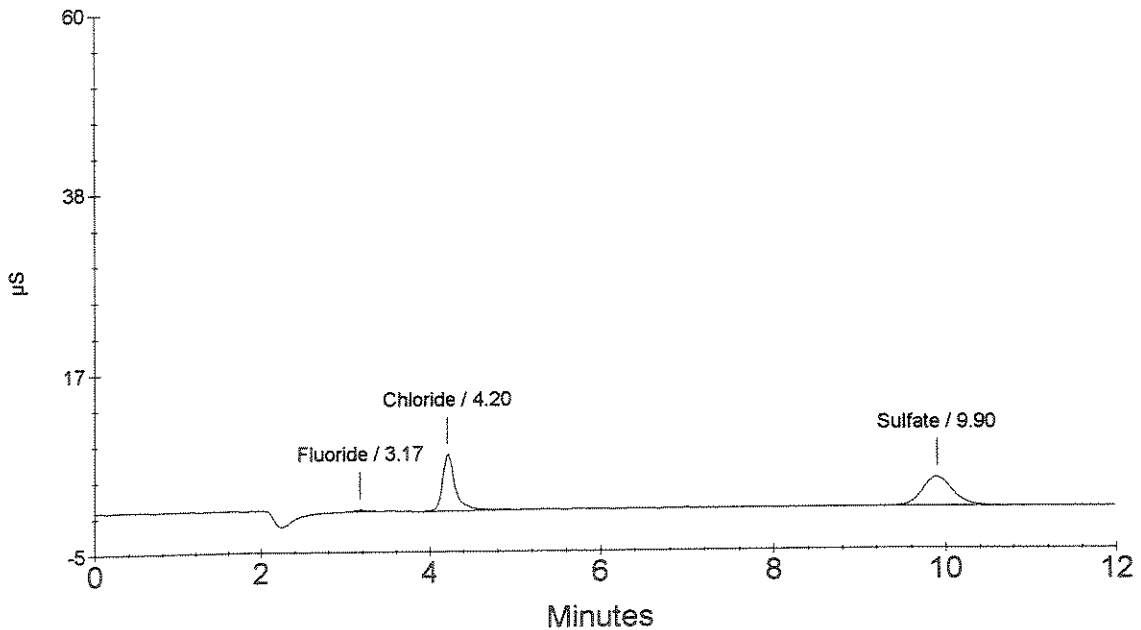
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.209	16756
2	4.20	Chloride Nitrite Bromide	16.444	725464
3	9.90	Nitrate Sulfate	30.313	843980

OK
CM
7/16/08
X250/25

1116255



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116256
 Data File Name : ...\\715_029.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 20:10:12

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

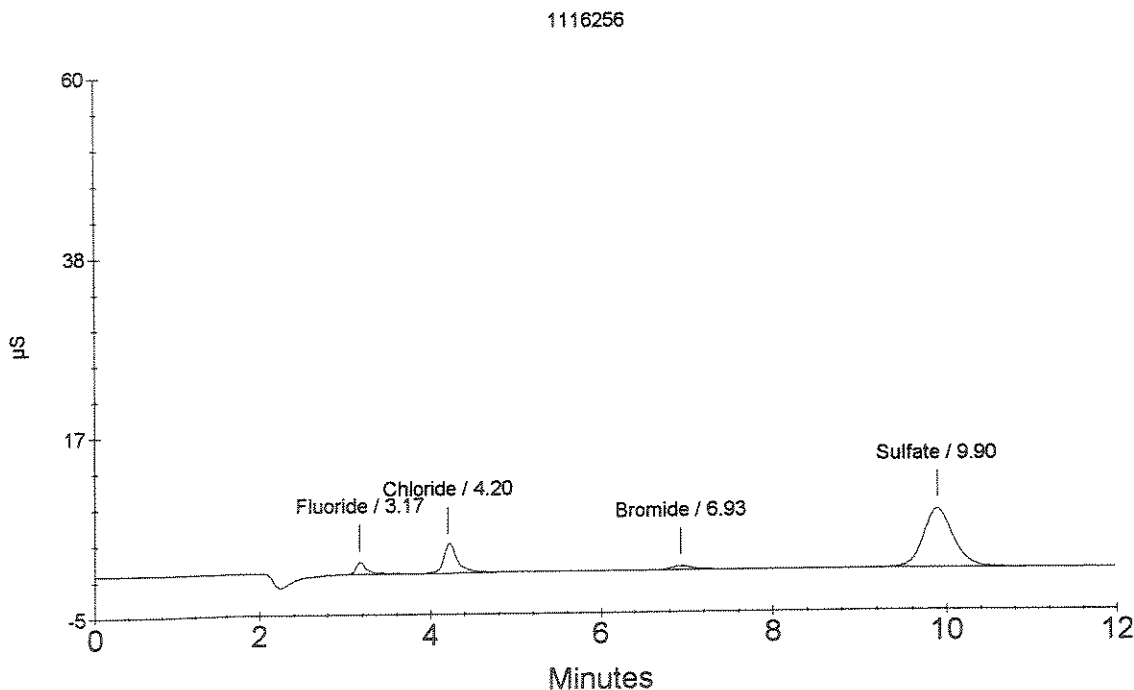
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.215	141399
2	4.20	Chloride	1.000	422444
		Nitrite		
3	6.93	Bromide	0.560	89349
		Nitrate		
4	9.90	Sulfate	6.009	1688183

OK
7/16/08

x250/25



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257
Data File Name : ...\\715_030.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 20:24:31

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

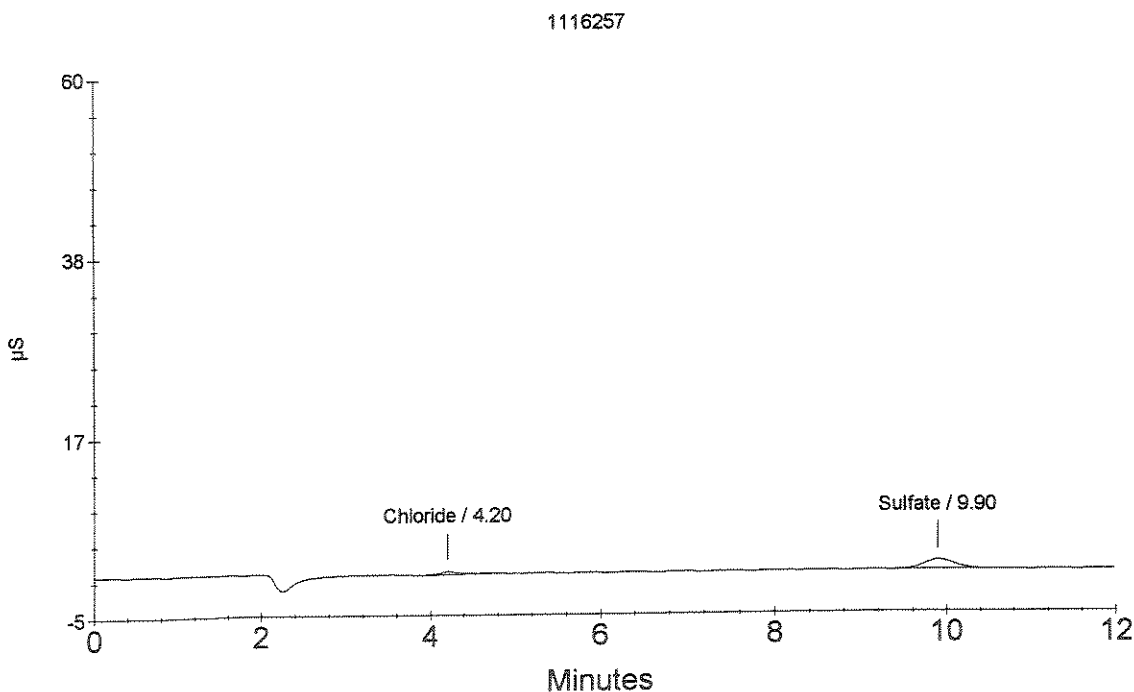
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	23.570	63311
1	4.20	Chloride Nitrite Bromide Nitrate	23.570	63311
2	9.90	Sulfate	103.246	277228

OK
CW
7/16/08

25/15



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\715_031.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 20:38:51

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

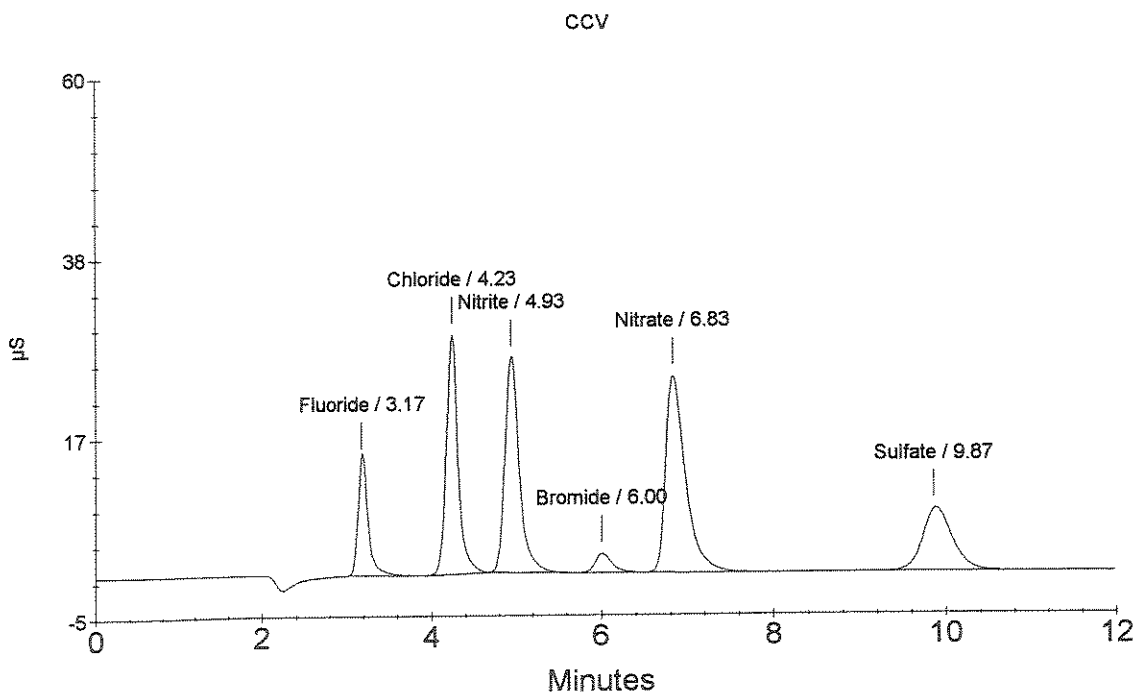
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	1.858	1193989
2	4.23	Chloride	6.026	2784843
3	4.93	Nitrite	3.497	3097558
4	6.00	Bromide <i>OK</i>	1.915	309103
5	6.83	Nitrate	3.466	3817038
6	9.87	Sulfate <i>OK</i>	6.493	1825532

CCV
7/16/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\\715_032.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 20:53:10

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

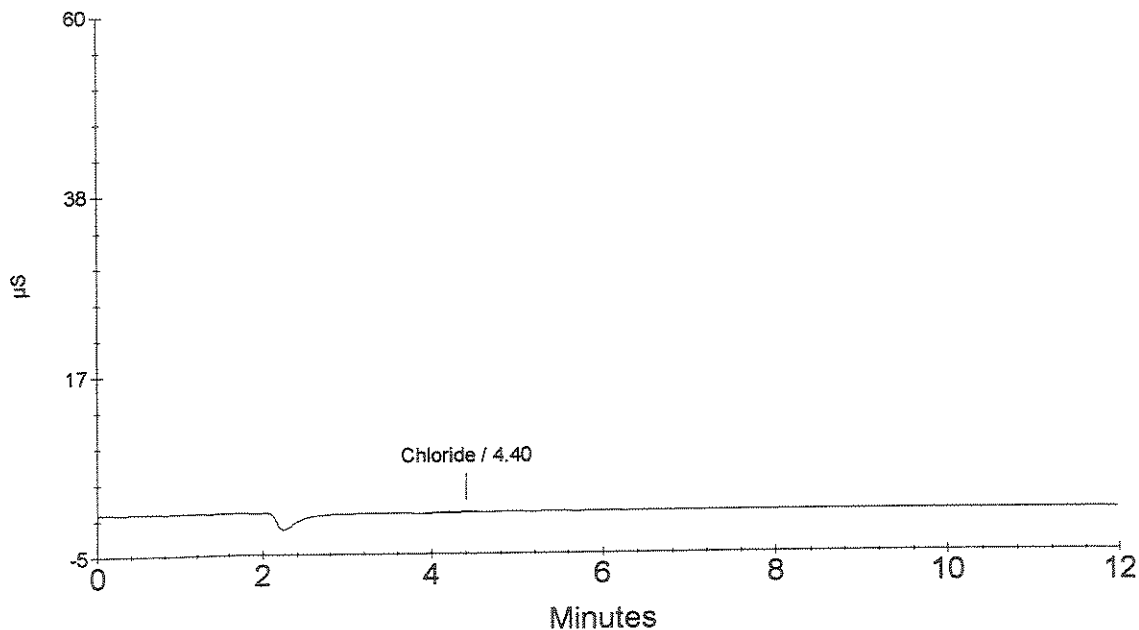
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.40	Chloride	0.163	29163
1	4.40	Chloride	0.163	29163
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
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7/16/08

CCB



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Sample Name : LCS
 Data File Name : ...715_033.DXD
 Method File Name : ...20080714.met
 Date Time Collected : 7/15/08 21:07:30

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

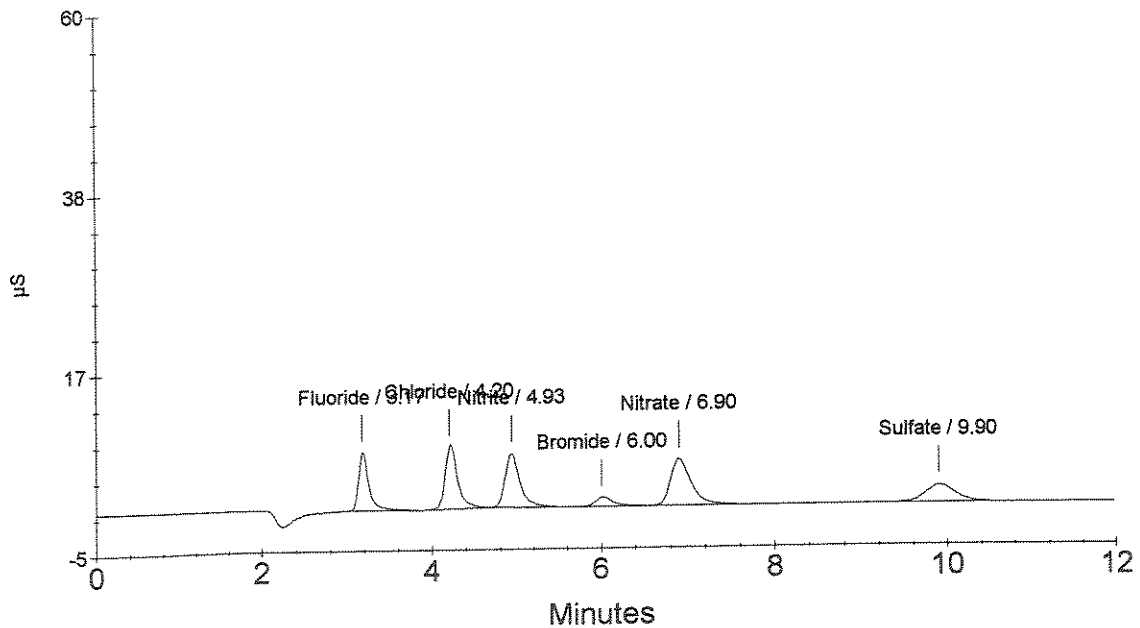
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.927	597599
2	4.20	Chloride	1.768	783620
3	4.93	Nitrite	0.917	784060
4	6.00	Bromide <i>OK</i>	0.983	158055
5	6.90	Nitrate	0.890	906808
6	9.90	Sulfate <i>OK</i>	1.900	523272

OK
OK
7/16/08

LCS



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Sample Name : 1116258
 Data File Name : ...\\715_034.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 21:21:49

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 200.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

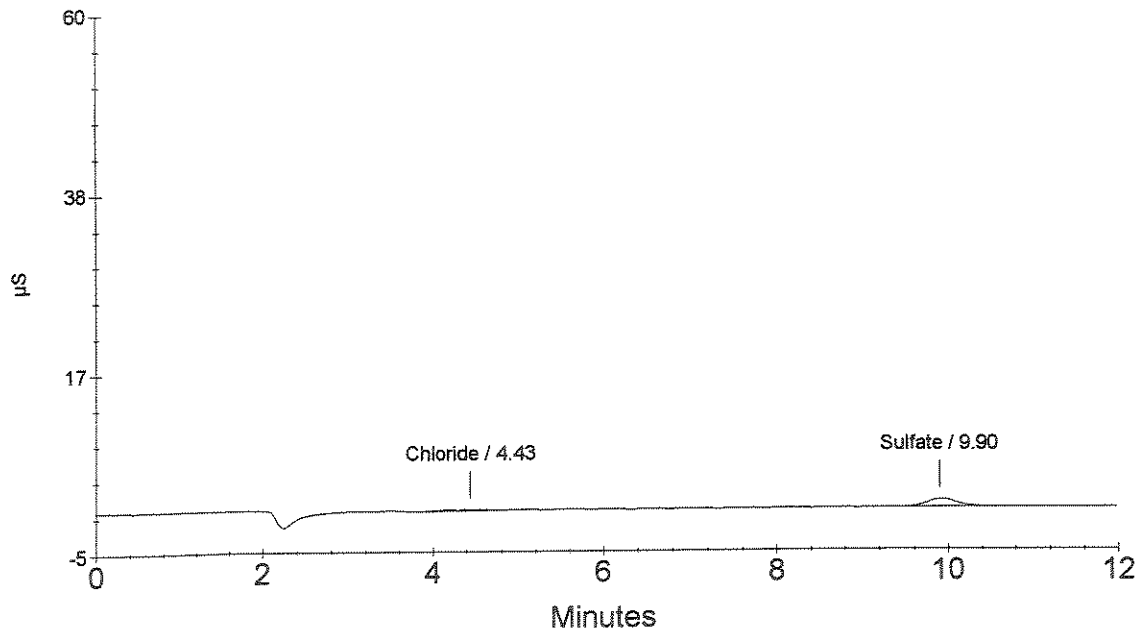
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.43	Chloride	38.917	43986
1	4.43	Chloride Nitrite Bromide Nitrate	38.917	43986
2	9.90	Sulfate	174.079	231277

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7/16/08

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Sample Name : 1116264
Data File Name : ...\\715_035.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 21:36:08

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

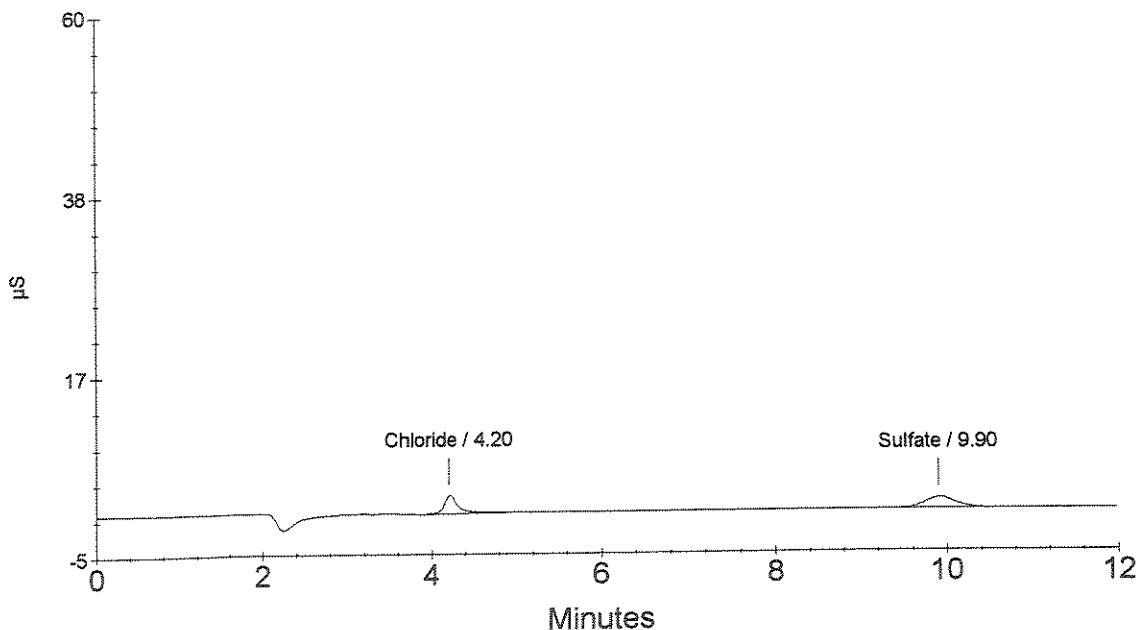
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	67.658	270546
1	4.20	Chloride	67.658	270546
		Nitrite		
		Bromide		
		Nitrate		
2	9.90	Sulfate	118.275	319841

OK
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Sample Name : 1116265
Data File Name : ...715_036.DXD
Method File Name : ...20080714.met
Date Time Collected : 7/15/08 21:50:28

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

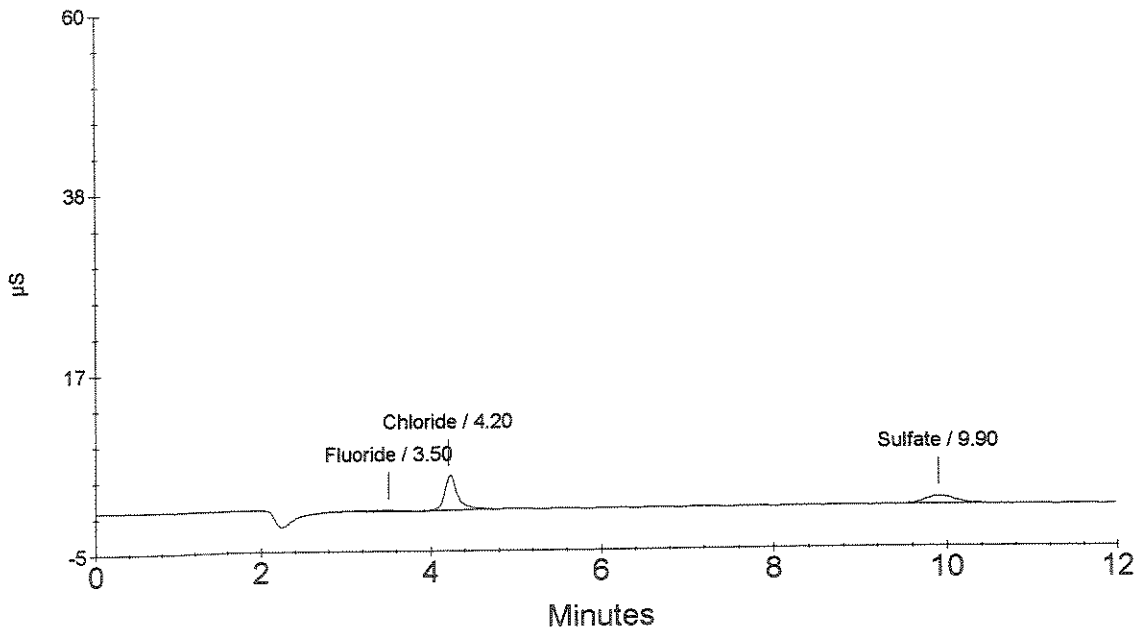
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.50	Fluoride	3.466	25583
2	4.20	Chloride Nitrite Bromide	105.772	449699
3	9.90	Nitrate Sulfate	85.769	227675

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Sample Name : 1116267
 Data File Name : ...715_037.DXD
 Method File Name : ...20080714.met
 Date Time Collected : 7/15/08 22:04:48

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 2.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

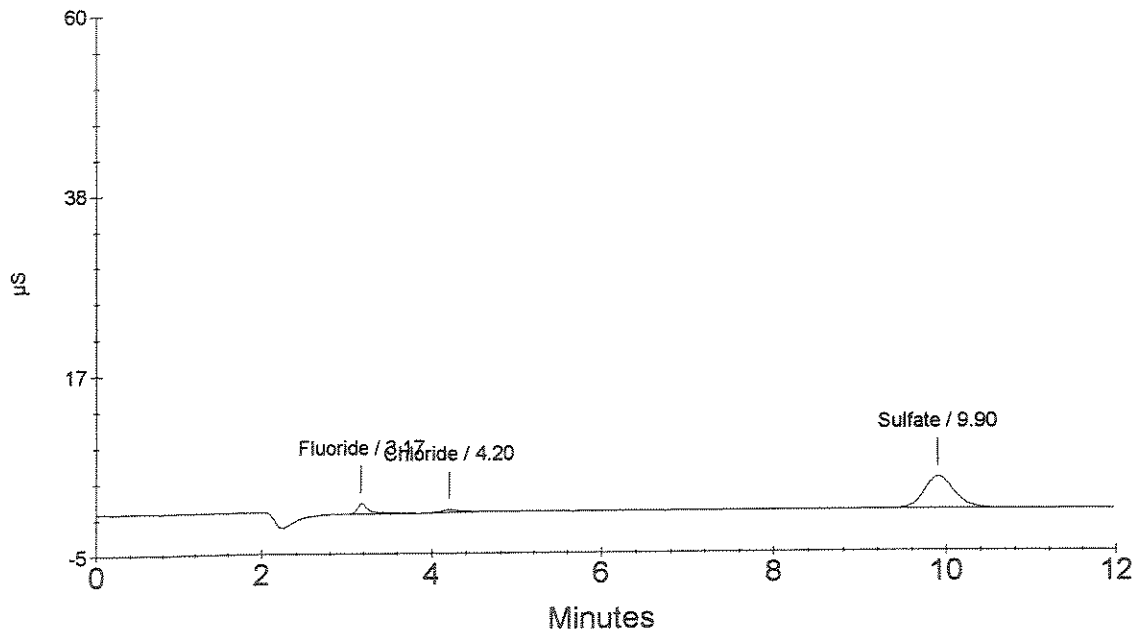
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.360	118823
2	4.20	Chloride Nitrite Bromide	0.429	53459
3	9.90	Nitrate Sulfate	6.670	930035

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Sample Name : 1116269
Data File Name : ...715_038.DXD
Method File Name : ...20080714.met
Date Time Collected : 7/15/08 22:19:06

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

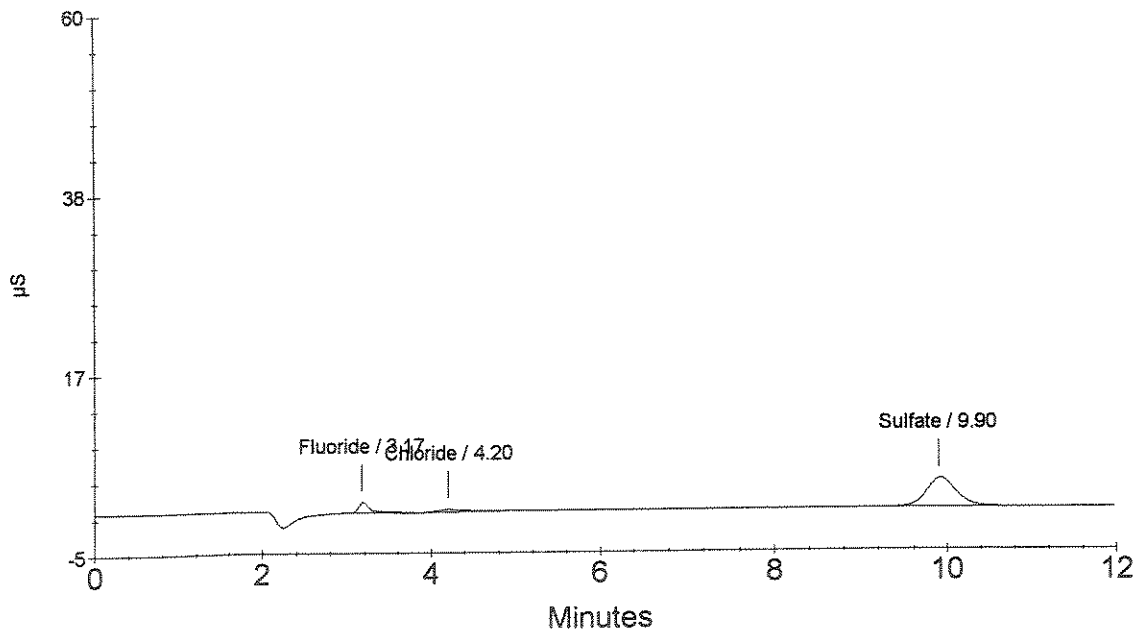
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.387	127329
2	4.20	Chloride Nitrite Bromide	0.525	75833
3	9.90	Nitrate Sulfate	6.139	854819 <i>x250/25</i>

OK
CW
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Sample Name : 1116271
 Data File Name : ...\\715_039.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 22:33:25

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 20.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

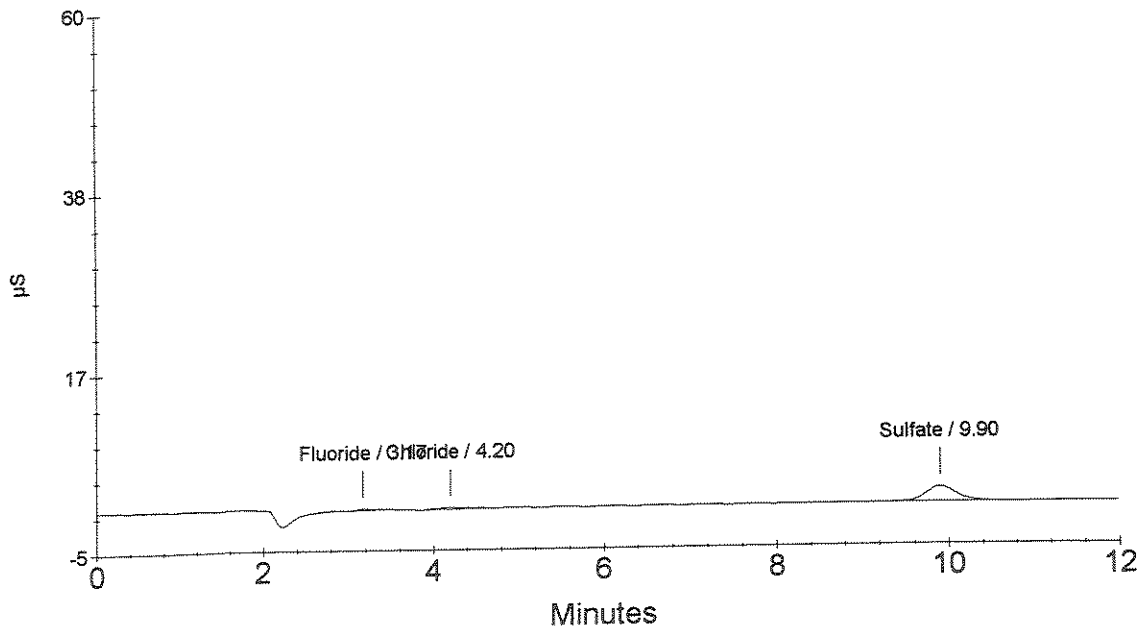
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.266	11886
2	4.20	Chloride Nitrite Bromide	4.131	49620
3	9.90	Nitrate Sulfate	32.513	445416 <i>x250/25</i>

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Sample Name : 1116273
Data File Name : ...\\715_040.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 22:47:45

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

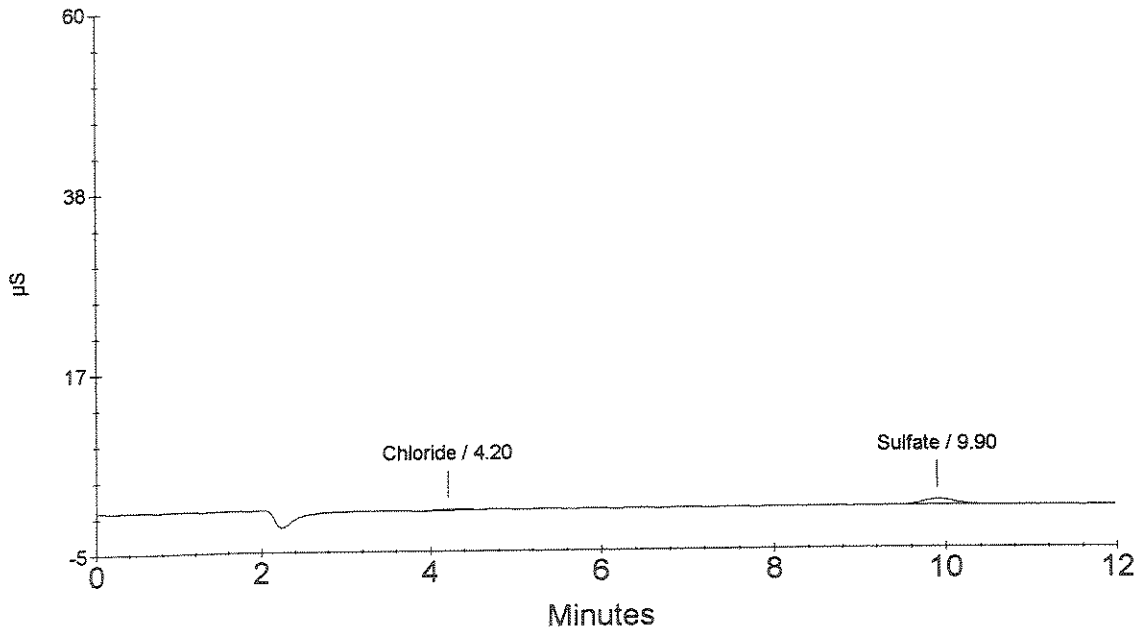
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	15.851	27030
1	4.20	Chloride Nitrite Bromide Nitrate	15.851	27030
2	9.90	Sulfate <i>mpt 1/40</i>	66.092	171885

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Sample Name : 1116274
 Data File Name : ...\\715_041.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/15/08 23:02:04

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

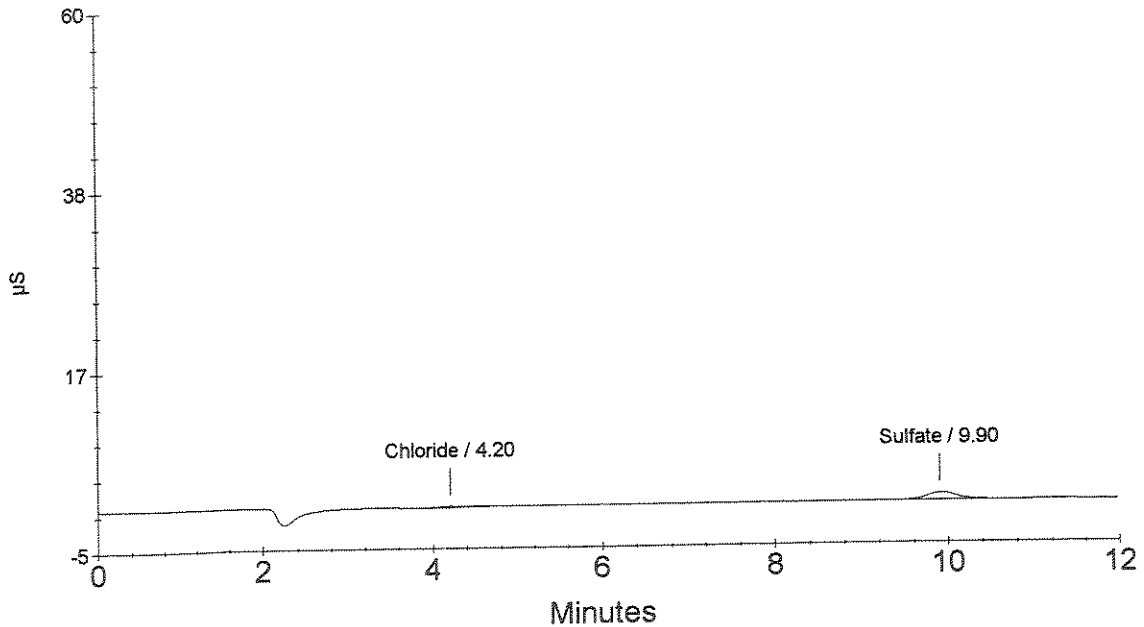
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	18.602	39961
1	4.20	Chloride Nitrite Bromide Nitrate	18.602	39961
2	9.90	Sulfate	76.643	201799

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Sample Name : 1116275
Data File Name : ...715_042.DXD
Method File Name : ...20080714.met
Date Time Collected : 7/15/08 23:16:22

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

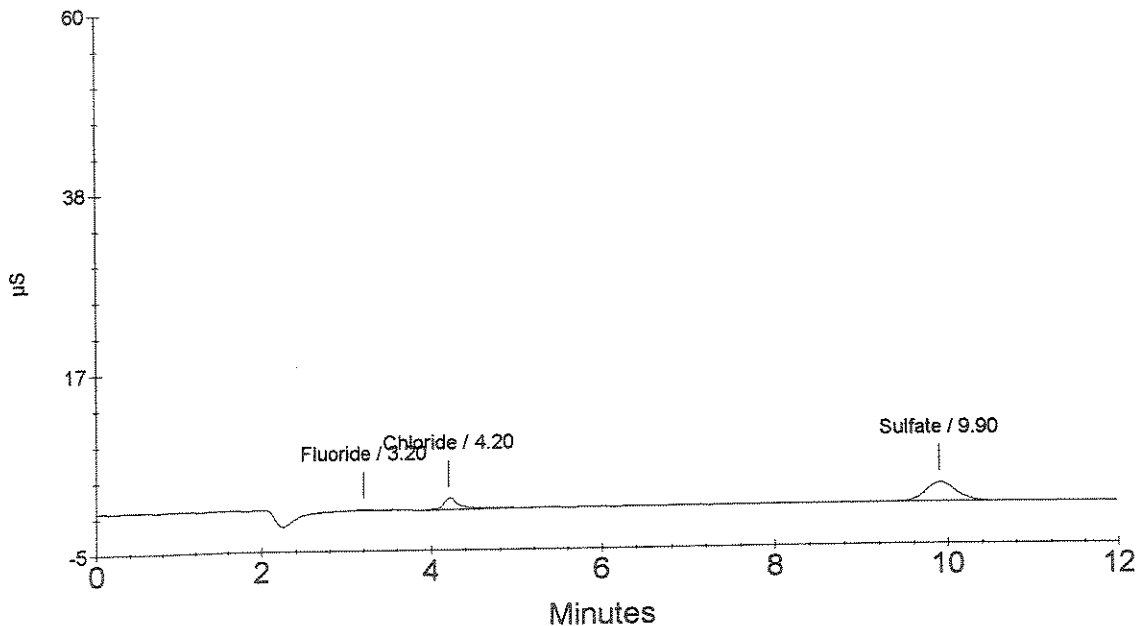
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.20	Fluoride	0.073	8034
2	4.20	Chloride Nitrite Bromide	5.027	188828
3	9.90	Nitrate Sulfate	20.435	563902

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Sample Name : 1116276
Data File Name : ...\\715_043.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 23:30:42

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

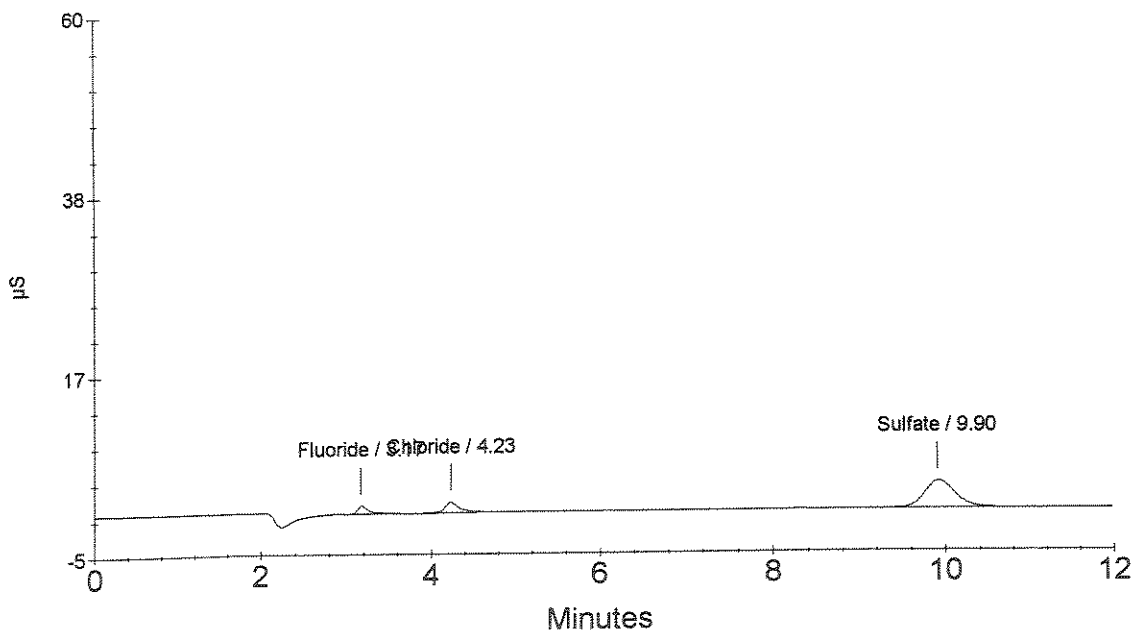
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	0.306	101326
2	4.23	Chloride Nitrite Bromide	0.875	158254
3	9.90	Nitrate Sulfate	5.730	796782

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Sample Name : CCV
Data File Name : ...\\715_044.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 23:45:02

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

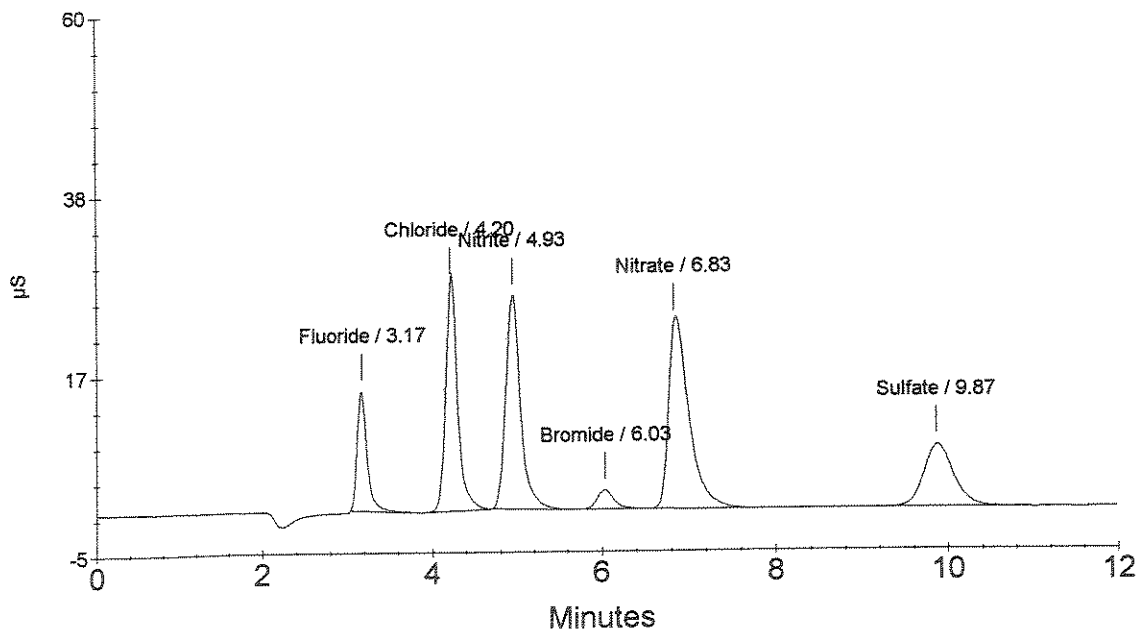
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	1.824	1171829
2	4.20	Chloride	5.983	2764971
3	4.93	Nitrite	3.576	3168788
4	6.03	Bromide	1.934	312211
5	6.83	Nitrate	3.388	3729308
6	9.87	Sulfate	6.470	1818971

OK
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CCV



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Sample Name : CCB
Data File Name : ...\\715_045.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/15/08 23:59:22

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

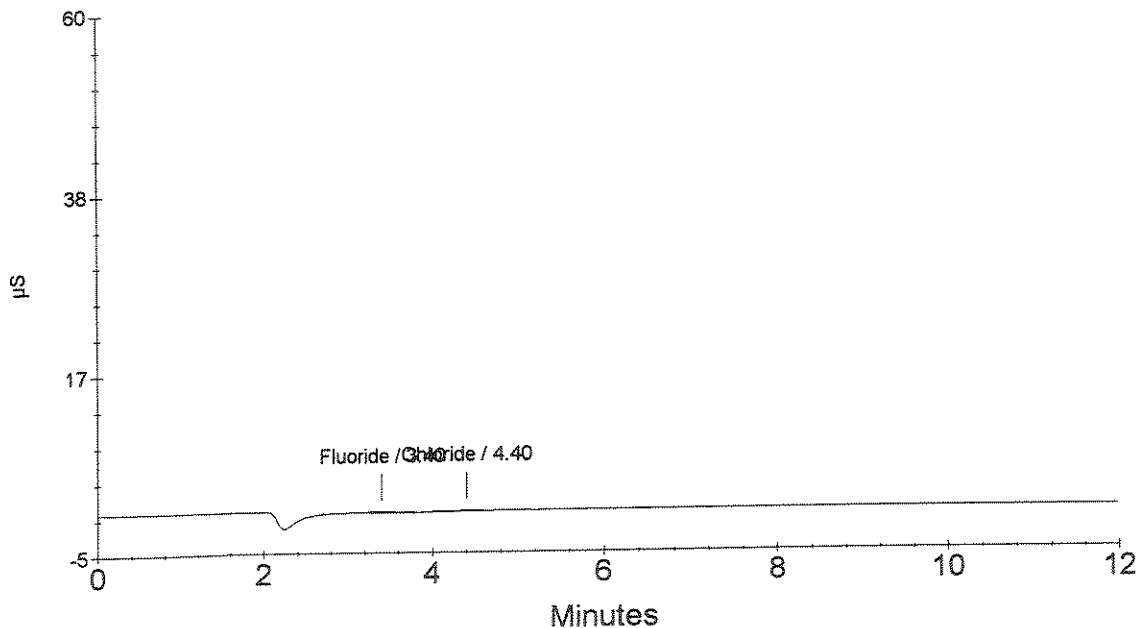
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.40	Fluoride	0.035	25935
2	4.40	Chloride	0.153	24261
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		

OK
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CCB



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Sample Name : 1116277
Data File Name : ...\\715_046.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/16/08 00:13:41

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

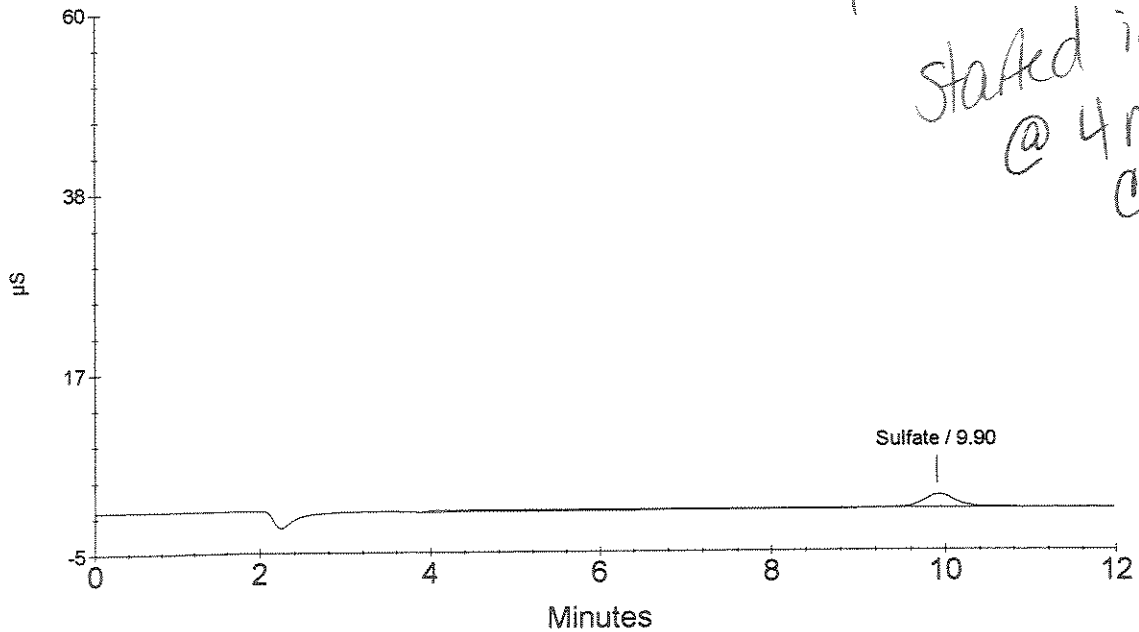
Dilution Factor : 1000.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	9.90	Sulfate Chloride Nitrite Bromide Nitrate	2819.819	784009
1	9.90	Sulfate	2819.819	784009

OK
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Reprocess.
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Rochester, NY 14607

Sample Name : 1116277
Data File Name : ...\\715_046.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/16/08 00:13:41

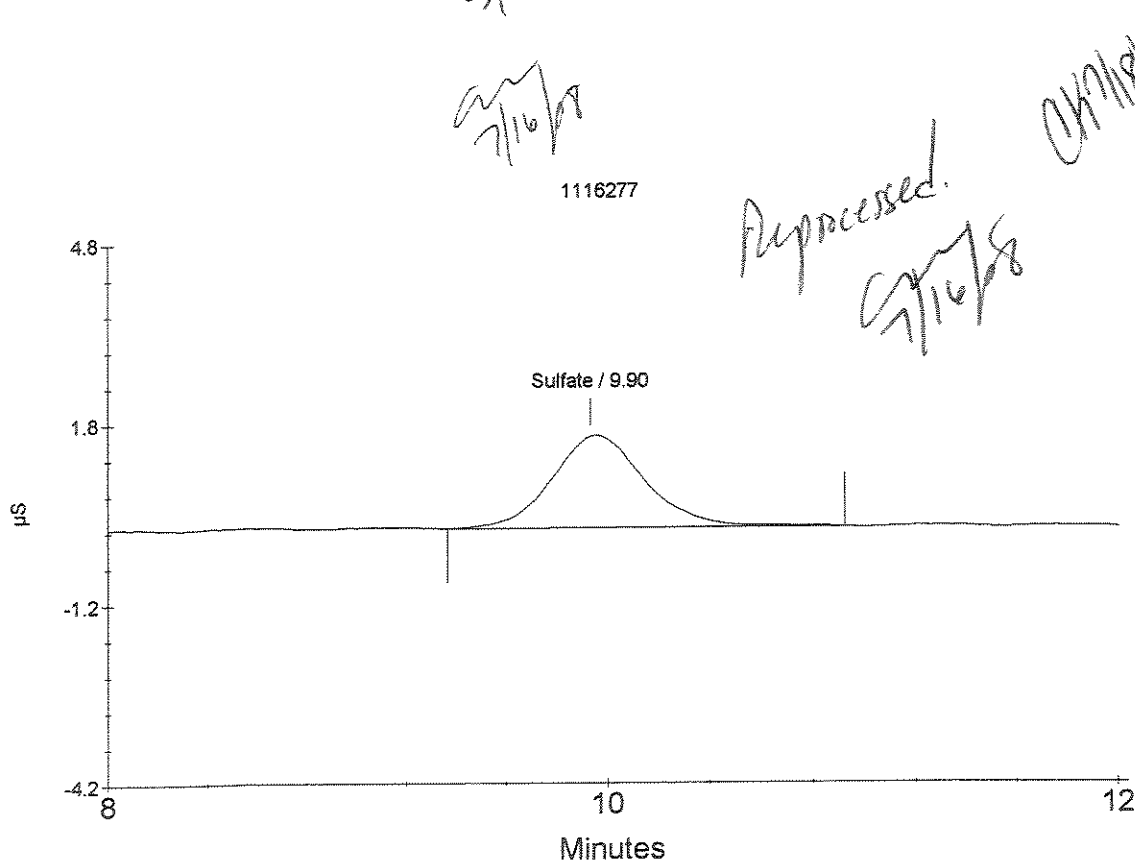
Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1000.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	9.90	Sulfate Chloride Nitrite Bromide Nitrate	1435.521	391511
1	9.90	Sulfate	1435.521	391511



Ion Chromatography Analytical Report
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Sample Name : 1116277 DUP
Data File Name : ...715_047.DXD
Method File Name : ...20080714.met
Date Time Collected : 7/16/08 00:28:01

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1000.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

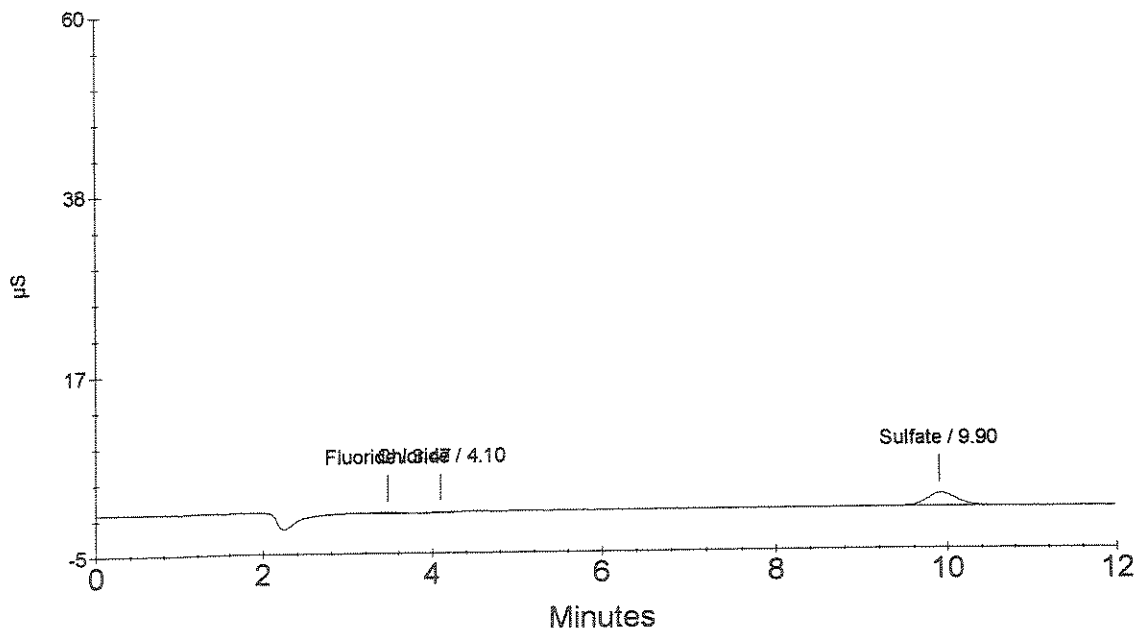
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.47	Fluoride	24.486	19063
2	4.10	Chloride Nitrite Bromide	129.940	13601
3	9.90	Nitrate Sulfate	1410.769	384493

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Sample Name : 1116277 SPK
Data File Name : ...715_048.DXD
Method File Name : ...20080714.met
Date Time Collected : 7/16/08 00:42:19

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1000.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

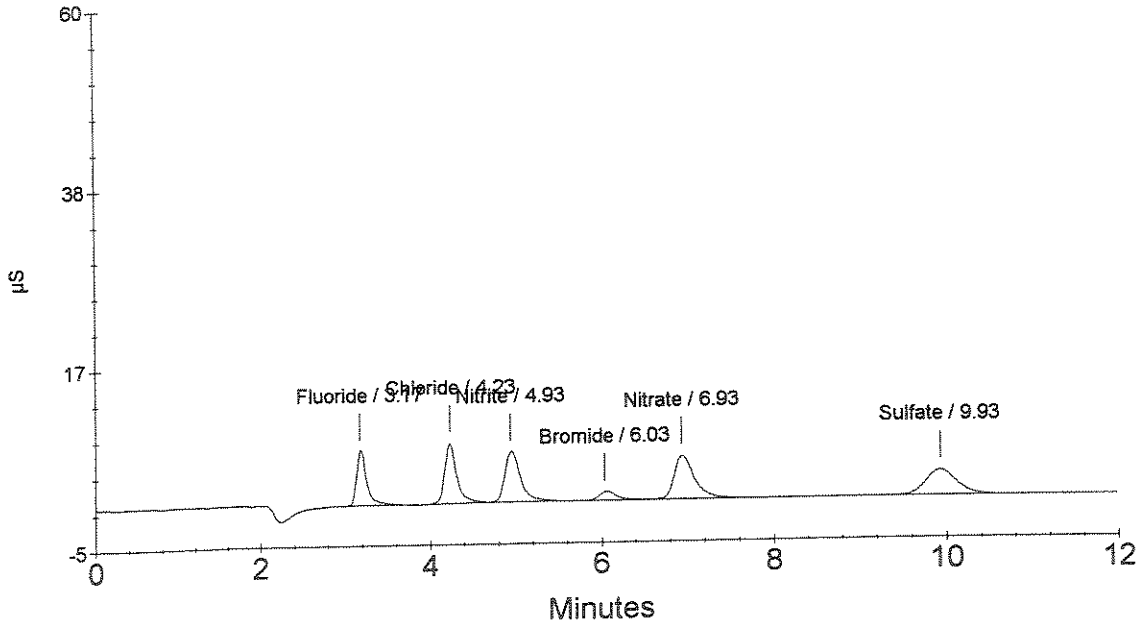
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	851.455	548920
2	4.23	Chloride	1621.571	714732
3	4.93	Nitrite	887.543	757906
4	6.03	Bromide	928.605	149185
5	6.93	Nitrate	832.919	842767
6	9.93	Sulfate	2668.616	741138

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Sample Name : 1116278
Data File Name : ...715_049.DXD
Method File Name : ...20080714.met
Date Time Collected : 7/16/08 00:56:38

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

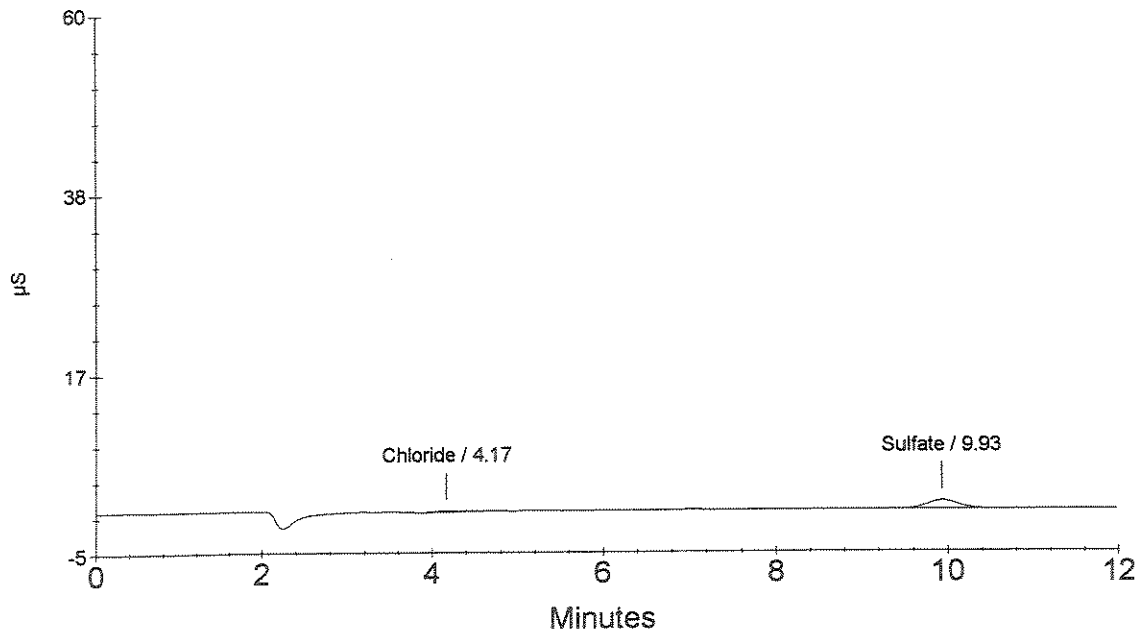
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.17	Chloride	17.163	33199
1	4.17	Chloride Nitrite Bromide Nitrate	17.163	33199
2	9.93	Sulfate	94.981	253794

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Sample Name : 1116278 DUP
 Data File Name : ...\\715_050.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/16/08 01:10:58


Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

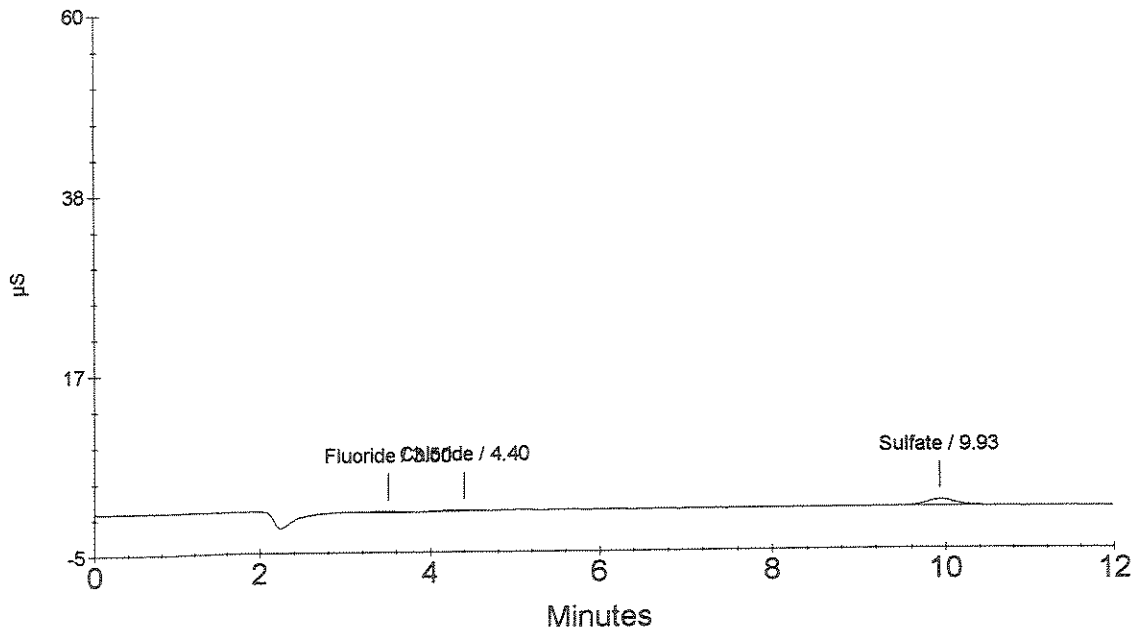
Dilution Factor : 100.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.50	Fluoride	3.338	24760
2	4.40	Chloride Nitrite Bromide	18.202	38080
3	9.93	Nitrate Sulfate	67.224	175093

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 1116278 DUP



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Sample Name : 1116278 SPK
Data File Name : ... \715_051.DXD
Method File Name : ... \20080714.met
Date Time Collected : 7/16/08 01:25:18

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 100.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

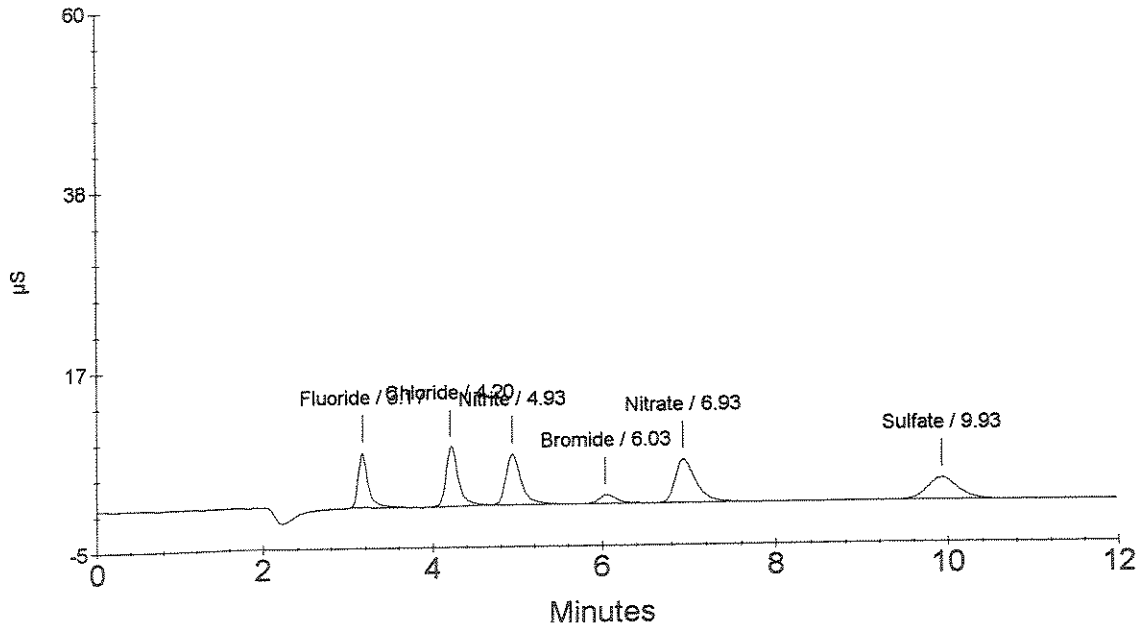
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	83.163	536221
2	4.20	Chloride	165.040	728283
3	4.93	Nitrite	88.768	758029
4	6.03	Bromide	93.788	150689
5	6.93	Nitrate	84.366	854899
6	9.93	Sulfate	236.287	654447

CW
7/16/08

1116278 SPK



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116279
 Data File Name : ...\\715_052.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/16/08 01:39:37

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 200.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

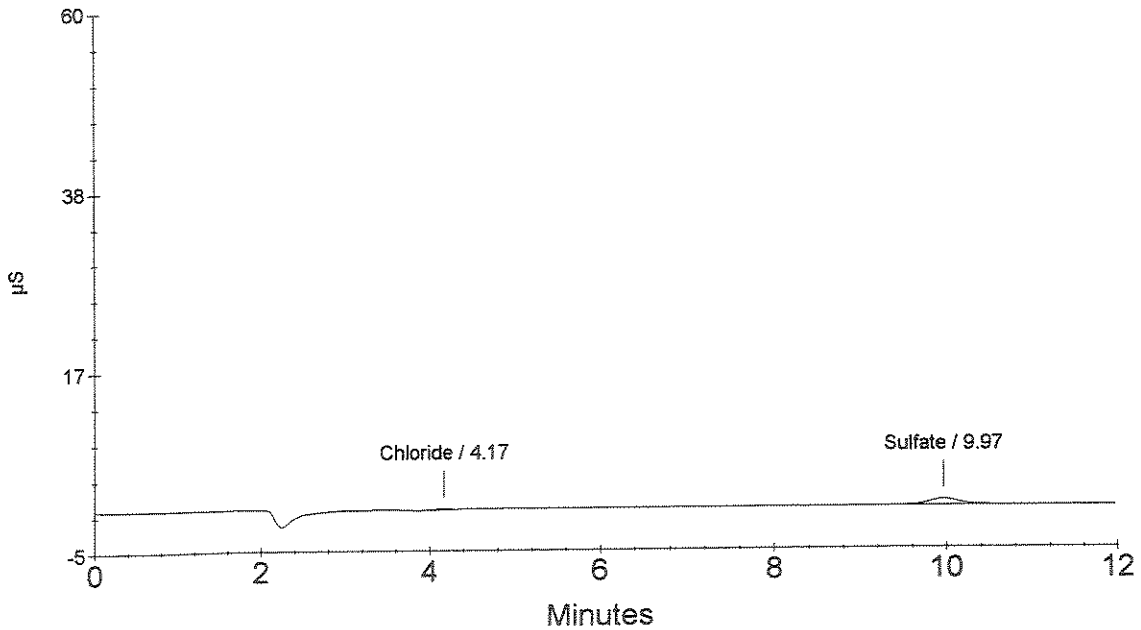
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.17	Chloride	26.745	15381
1	4.17	Chloride Nitrite Bromide Nitrate	26.745	15381
2	9.97	Sulfate	133.919	174343

Rpt 1/10²
7/16/08

1116279



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116279 DUP
Data File Name : ... \715_053.DXD
Method File Name : ... \20080714.met
Date Time Collected : 7/16/08 01:53:55

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 200.00
Sample Type : Sample Analysis
Sample Comment : 25g -> 250mL (S)

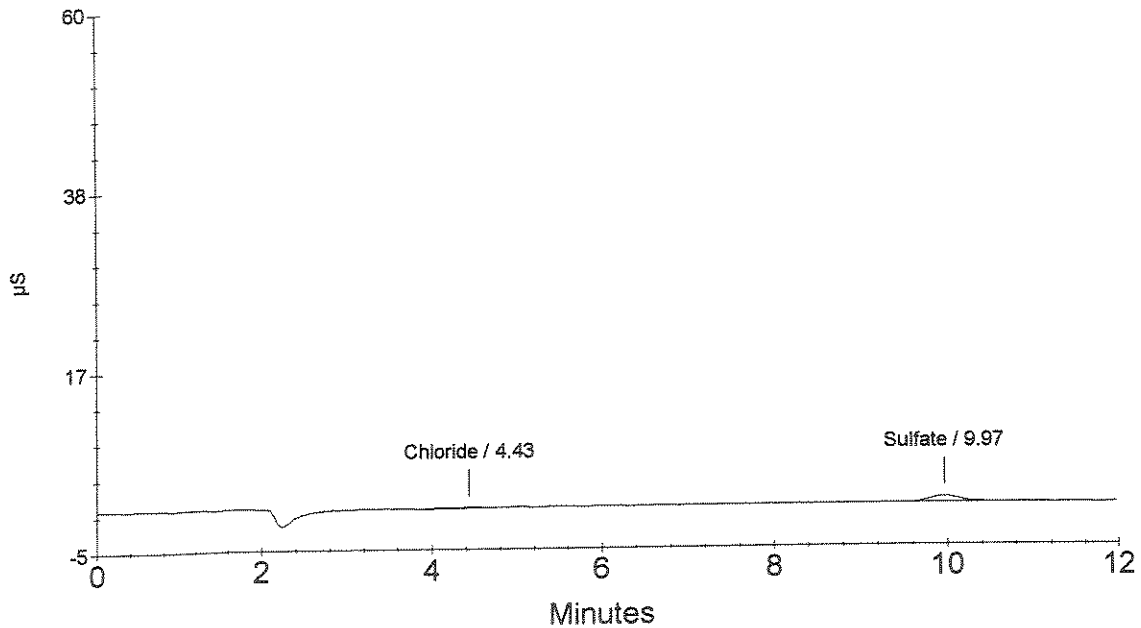
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.43	Chloride	31.982	27687
1	4.43	Chloride	31.982	27687
		Nitrite		
		Bromide		
2	9.97	Nitrate	134.202	174744
		Sulfate		

1/105
CW
7/16/08

1116279 DUP



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1116279 SPK
 Data File Name : ...715_054.DXD
 Method File Name : ...20080714.met
 Date Time Collected : 7/16/08 02:08:15

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 200.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

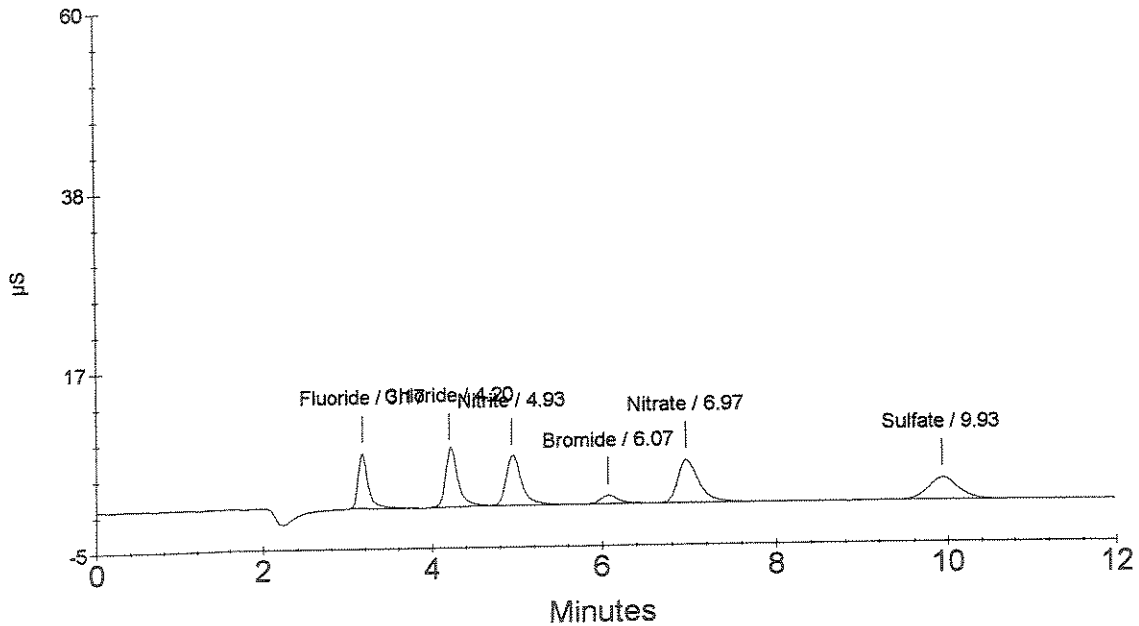
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	170.006	548007
2	4.20	Chloride	330.989	730420
3	4.93	Nitrite	176.620	753921
4	6.07	Bromide	186.899	150140
5	6.97	Nitrate	170.764	866379
6	9.93	Sulfate	488.374	676847

1/100
[Signature]
 7/16/08

1116279 SPK



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : 1111267
 Data File Name : ...715_055.DXD
 Method File Name : ...20080714.met
 Date Time Collected : 7/16/08 02:22:34

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 1000.00
 Sample Type : Sample Analysis
 Sample Comment : 25g -> 250mL (S)

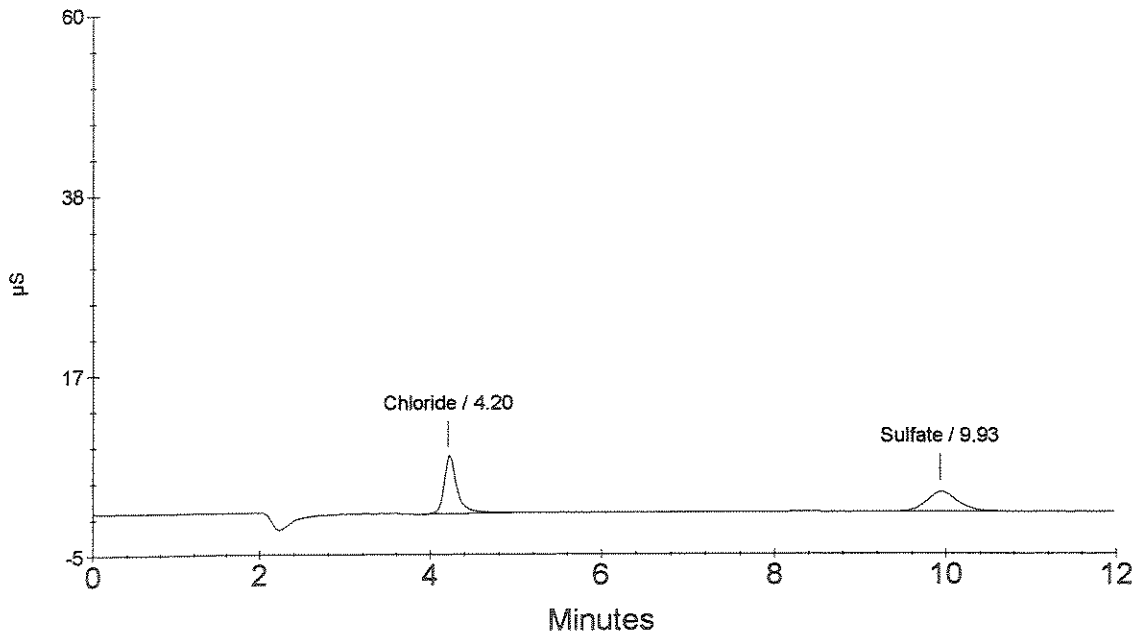
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	4.20	Chloride	1696.381	749895
1	4.20	Chloride Nitrite Bromide	1696.381	749895
2	9.93	Nitrate Sulfate	2126.107	587317 <i>X25/25</i>

OK
7/16/08

1111267



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\\715_056.DXD
Method File Name : ...\\20080714.met
Date Time Collected : 7/16/08 02:36:53

Detector Name :
Column ID : AS-14 (022939) AG-14 (022002)
Method Comment : Calibration 07.14.2008
Method Analyst : C. WOODS

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

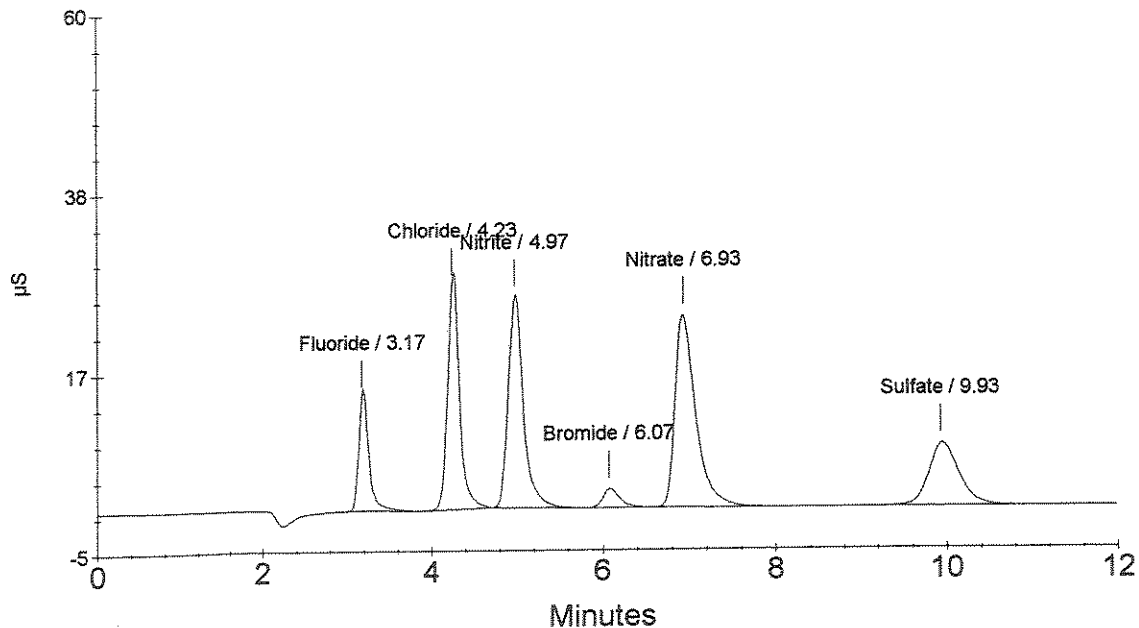
Data Collection Rate : 1.00 Hz
Data Collection Period : 720.00 seconds
Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.17	Fluoride	1.861	1195881
2	4.23	Chloride	6.034	2788941
3	4.97	Nitrite	3.495	3096362
4	6.07	Bromide	1.906	307668
5	6.93	Nitrate	3.447	3795990
6	9.93	Sulfate	6.597	1855045

OK
OK
7/16/08

CCV



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : CCB
 Data File Name : ...\\715_057.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/16/08 02:51:13

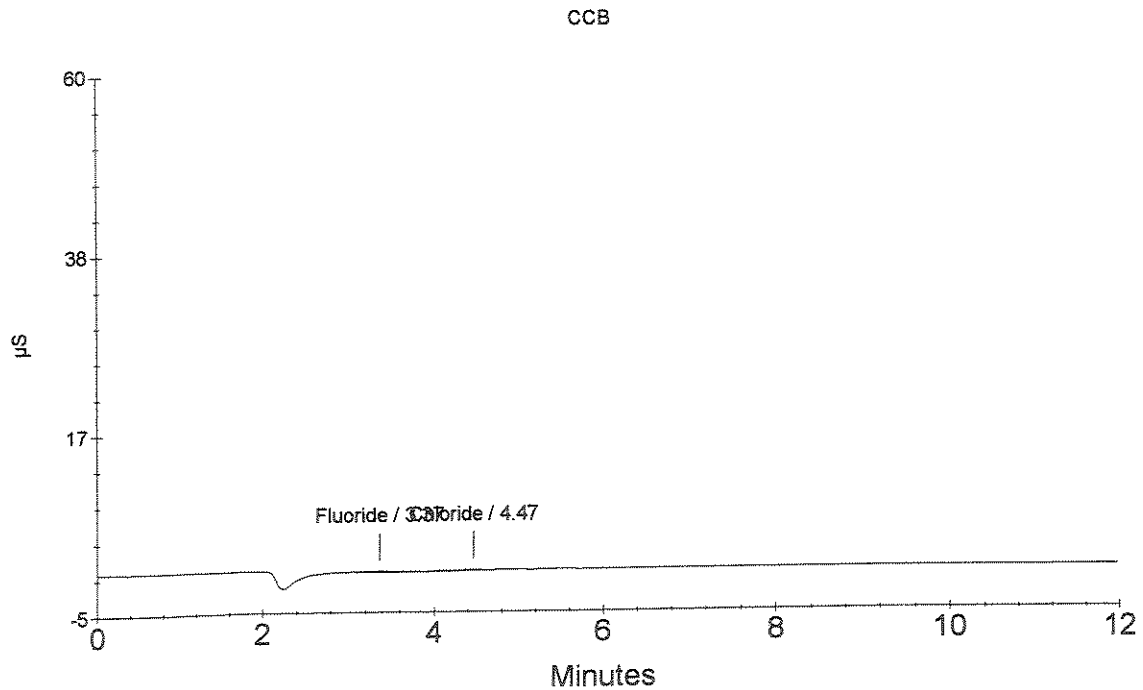
Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.37	Fluoride	0.033	24287
2	4.47	Chloride	0.148	21951
		Nitrite		
		Bromide		
		Nitrate		
		Sulfate		



Ion Chromatography Cover Sheet

Instrument: **Dionex 500DX Ion Chromatogram**

Column: **Dionex AS-14/AG-14, 4/10/2007**

Curve Date: 07/14/08

Loop size: 100 uL

Analyst: C. Woods

Analysis Date: 7-15-08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
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	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A		Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

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	WC9001A	50	2.0	100	1.0	CMMW	7/14/08	A	7/21/08	WC90051A
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		

Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 1
 Sample Type : Calibration Update
 Data File Name : ...\\714_001.DXD
 Method File Name : ...\\20080714.met

Date Time Collected : 7/14/08 17:28:28
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

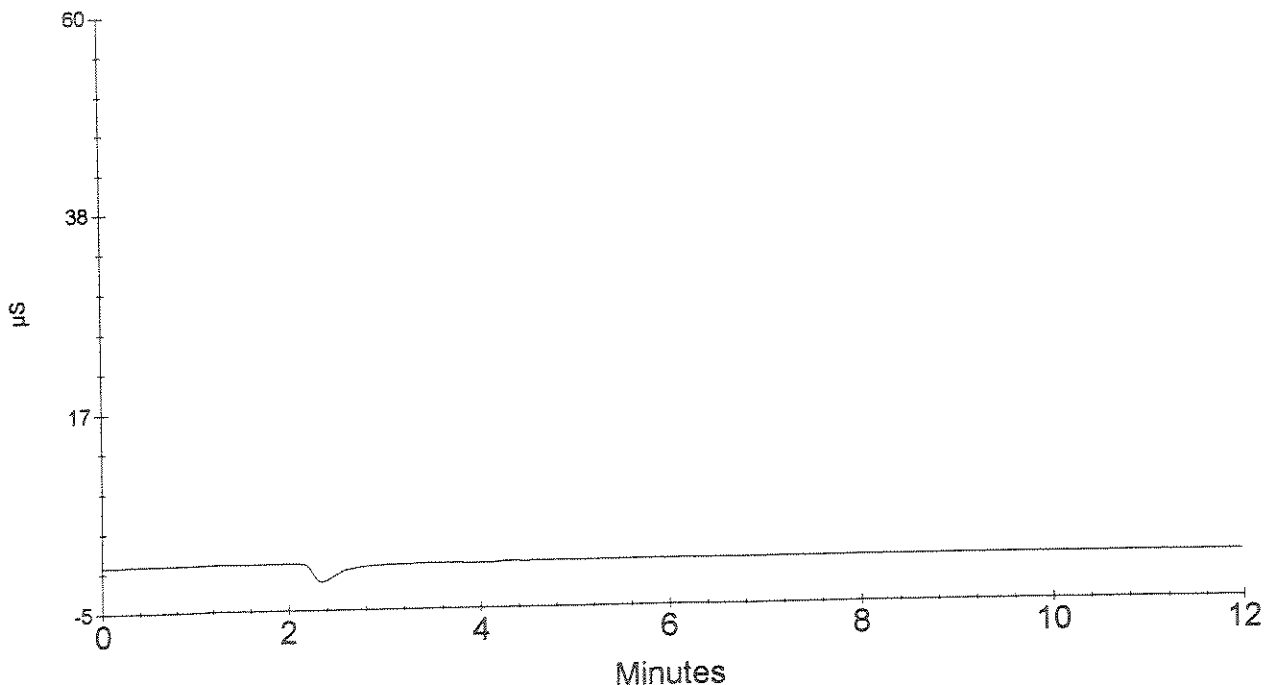
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 1

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.00	0	0.00

OK
 ↓
CW
 7/15/08
 STANDARD 1



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 2
 Sample Type : Calibration Update
 Data File Name : ...\\714_002.DXD
 Method File Name : ...\\20080714.met

Date Time Collected : 7/14/08 17:42:46
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

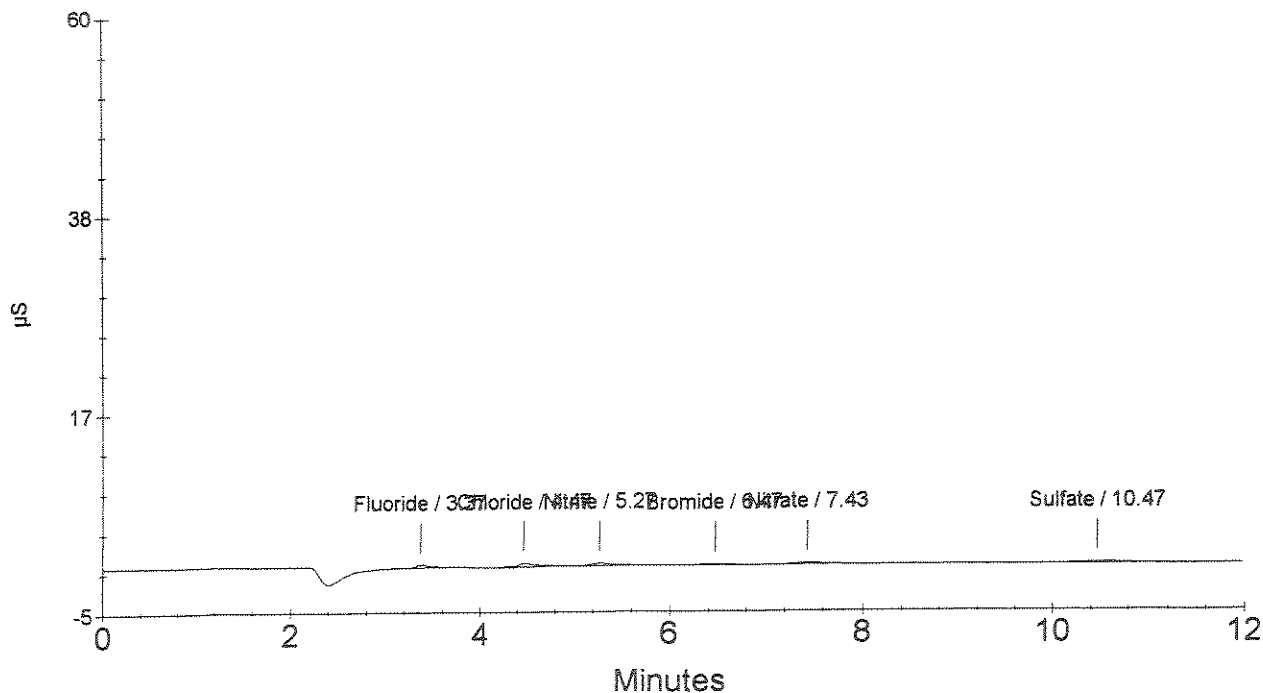
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 2

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.37	Fluoride	0.05	28893	23624.00
2	4.47	Chloride	0.10	61487	105687.00
3	5.27	Nitrite	0.05	34068	37742.00
4	6.47	Bromide	0.05	8476	15181.50
5	7.43	Nitrate	0.05	22029	41482.00
6	10.47	Sulfate	0.10	28373	180211.50

OK
 ↓
CW 7/15/09
 STANDARD 2



Ion Chromatography Calibration Report
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Sample Name : STANDARD 3
 Sample Type : Calibration Update
 Data File Name : ...\\714_003.DXD
 Method File Name : ...\\20080714.met

Date Time Collected : 7/14/08 17:57:05
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

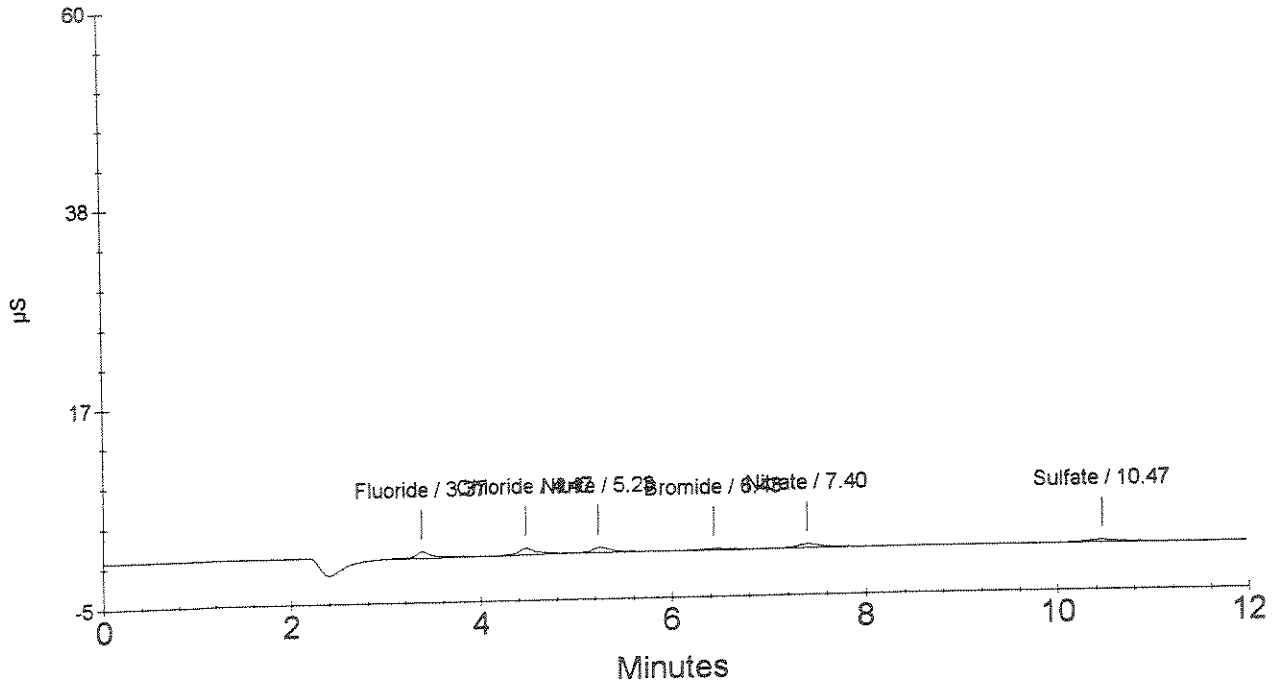
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 3

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.37	Fluoride	0.10	97181	88255.50
2	4.47	Chloride	0.20	97410	130731.00
3	5.23	Nitrite	0.10	72676	73459.50
4	6.43	Bromide	0.10	16037	23720.00
5	7.40	Nitrate	0.10	62564	71739.50
6	10.47	Sulfate	0.20	53797	80616.00

OK
 ↓
C. Woods
 7/15/08
 STANDARD 3



Ion Chromatography Calibration Report
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 Rochester, NY 14607

Sample Name : STANDARD 4
 Sample Type : Calibration Update
 Data File Name : ... \714_004.DXD
 Method File Name : ... \20080714.met

Date Time Collected : 7/14/08 18:11:25
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

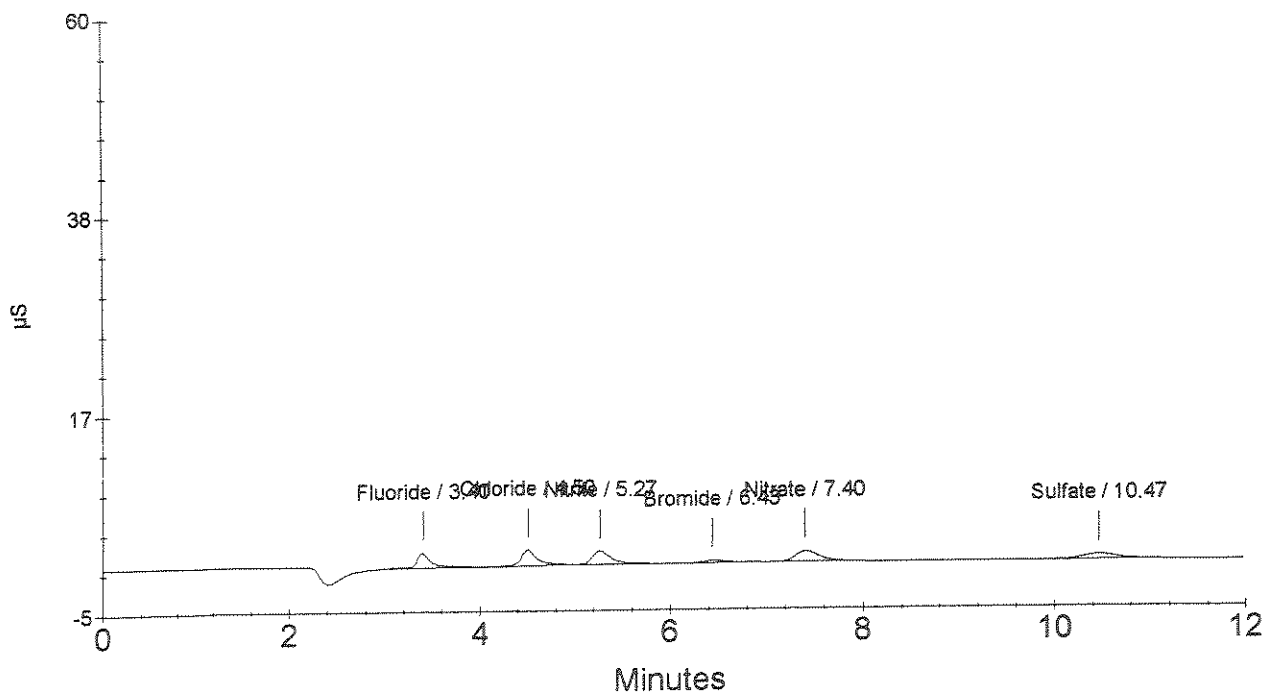
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 4

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.40	Fluoride	0.25	183632	180707.50
2	4.50	Chloride	0.50	211786	223123.00
3	5.27	Nitrite	0.25	191004	194894.50
4	6.43	Bromide	0.25	39674	50308.00
5	7.40	Nitrate	0.25	199002	200166.50
6	10.47	Sulfate	0.50	134934	120541.50

OK
 ↓
CW
 7/15/08
 STANDARD 4



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 5
 Sample Type : Calibration Update
 Data File Name : ...\\714_005.DXD
 Method File Name : ...\\20080714.met

Date Time Collected : 7/14/08 18:25:45
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

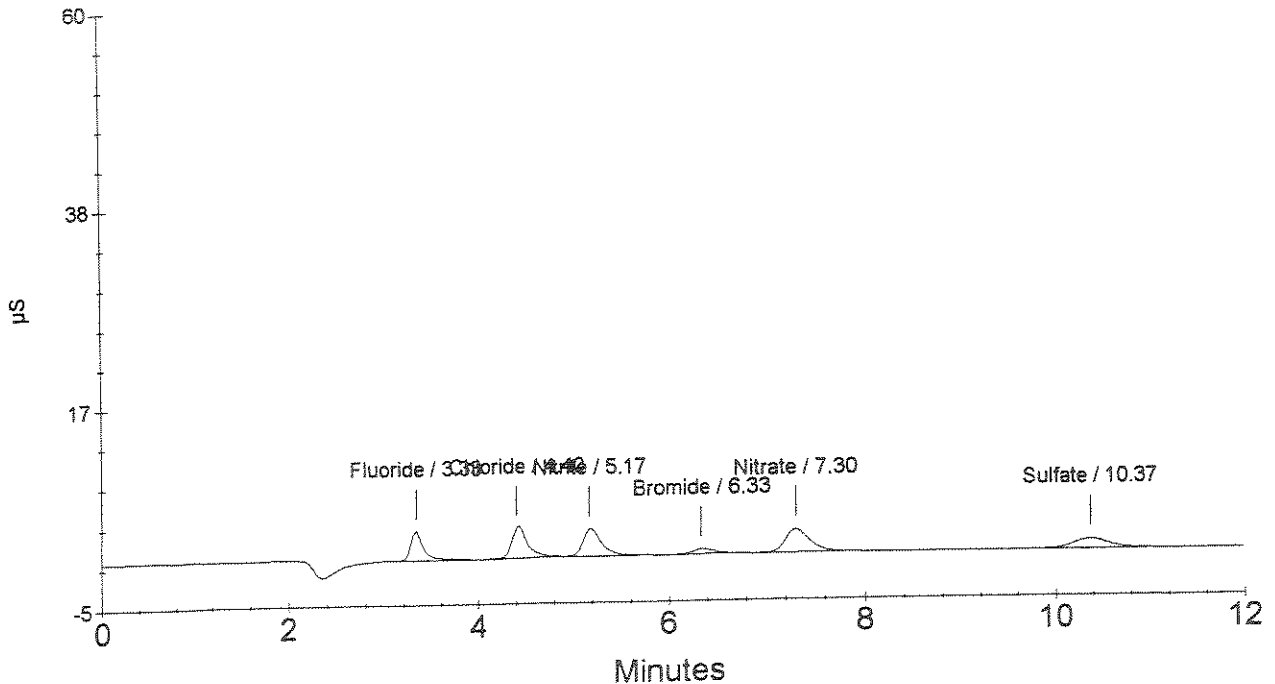
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 5

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.33	Fluoride	0.50	314710	320033.00
2	4.40	Chloride	1.00	392997	412873.00
3	5.17	Nitrite	0.50	386713	404175.50
4	6.33	Bromide	0.50	79051	91342.50
5	7.30	Nitrate	0.50	427082	429630.00
6	10.37	Sulfate	1.00	259135	238036.00

OK
 ↓
 CM
 7/15/08
 STANDARD 5



Ion Chromatography Calibration Report
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Sample Name : STANDARD 6
 Sample Type : Calibration Update
 Data File Name : ...\\714_006.DXD
 Method File Name : ...\\20080714.met

Date Time Collected : 7/14/08 18:40:04
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

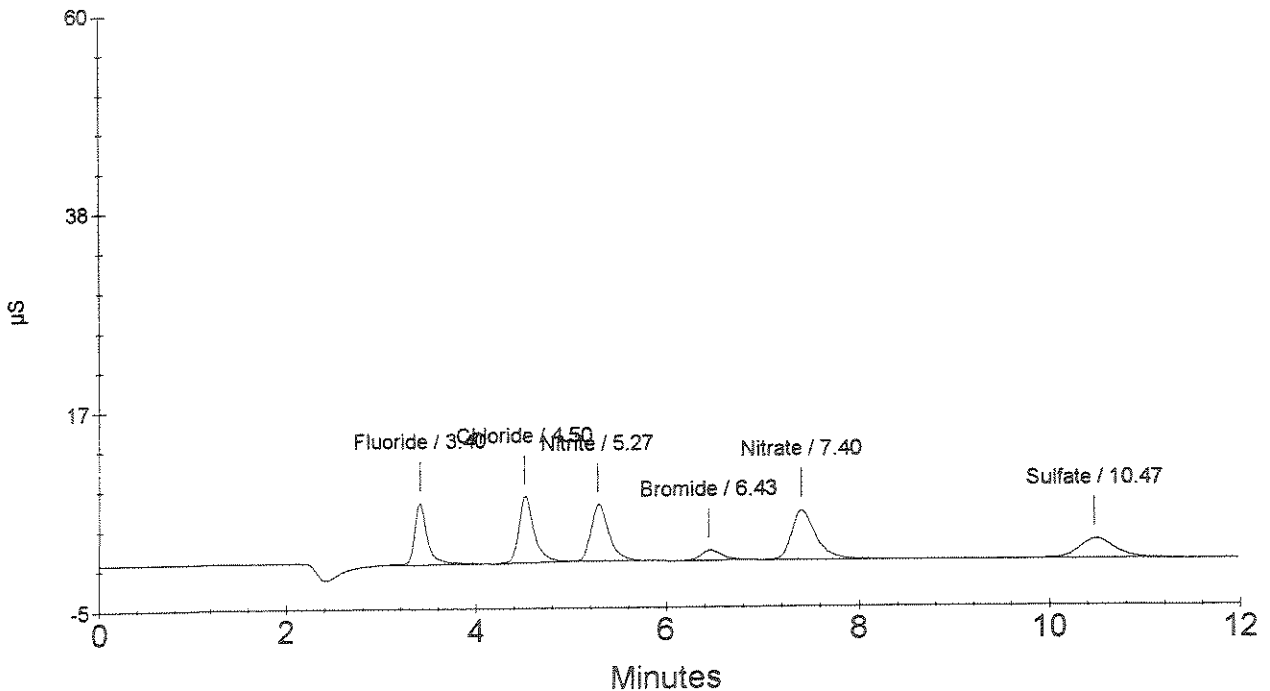
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 6

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.40	Fluoride	1.00	626925	620778.50
2	4.50	Chloride	2.00	802860	808630.00
3	5.27	Nitrite	1.00	810000	827576.50
4	6.43	Bromide	1.00	159748	169979.50
5	7.40	Nitrate	1.00	921605	910118.50
6	10.47	Sulfate	2.00	529000	459598.50

OK
 ↓
CW
 7/15/08
 STANDARD 6



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 7
 Sample Type : Calibration Update
 Data File Name : ...\\714_007.DXD
 Method File Name : ...\\20080714.met

Date Time Collected : 7/14/08 18:54:24
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

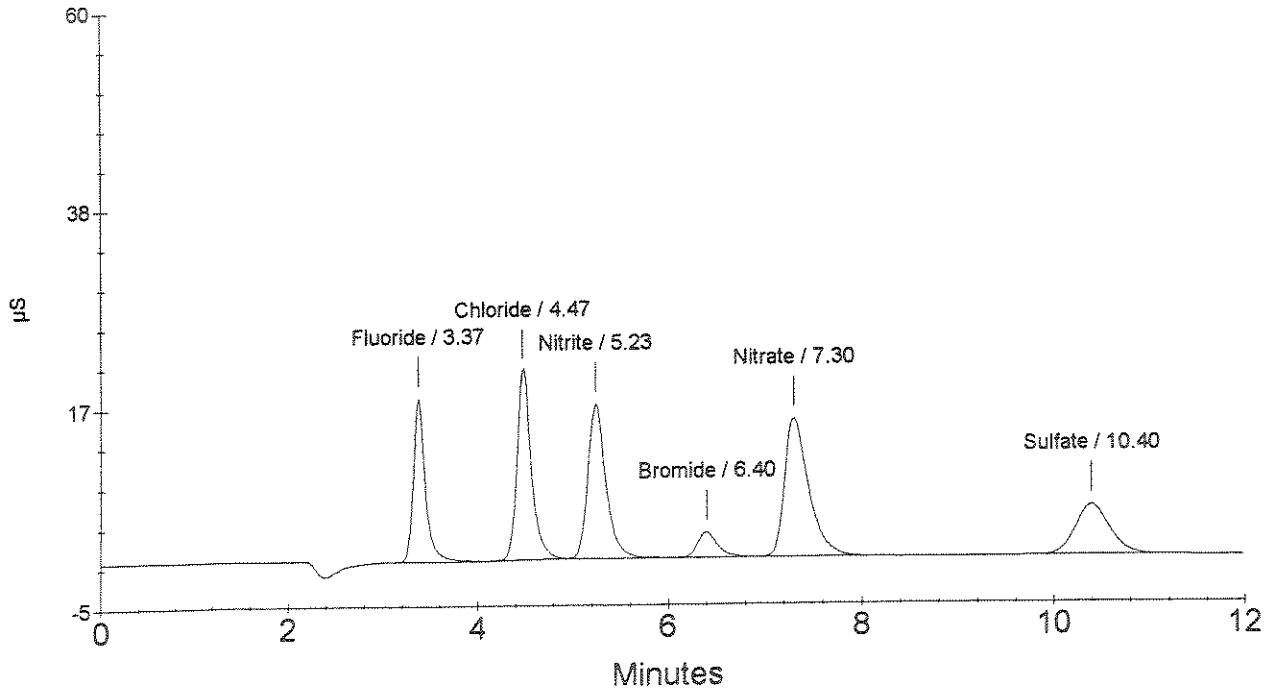
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 7

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.37	Fluoride	2.50	1573993	1630175.00
2	4.47	Chloride	5.00	2155902	2230899.50
3	5.23	Nitrite	2.50	2148750	2251962.00
4	6.40	Bromide	2.50	397100	416820.50
5	7.30	Nitrate	2.50	2553151	2600271.00
6	10.40	Sulfate	5.00	1354354	1223285.50

OK
 ↓
 7/15/08
 STANDARD 7



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 8
 Sample Type : Calibration Update
 Data File Name : ...\\714_008.DXD
 Method File Name : ...\\20080714.met

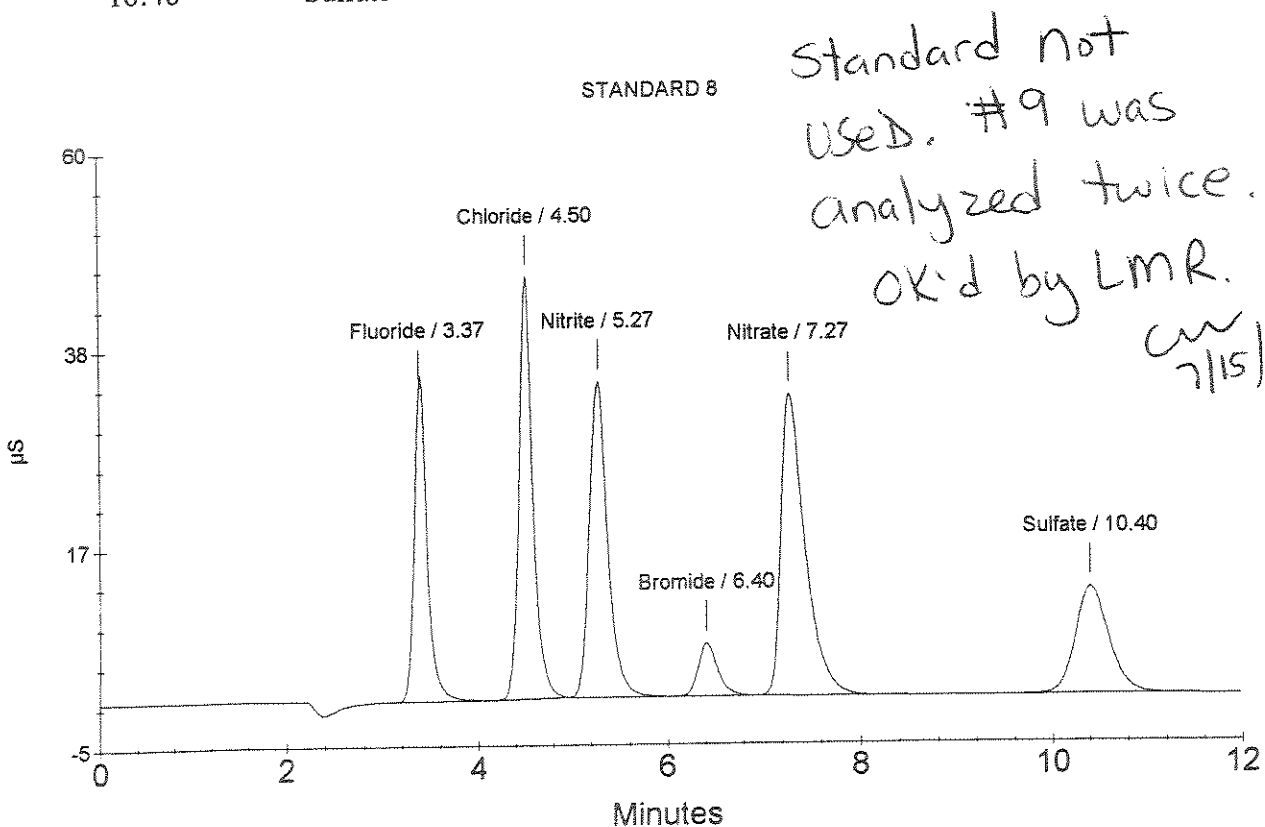
Date Time Collected : 7/14/08 19:08:43
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 8

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.37	Fluoride	4.00	3231644	2568131.50
2	4.50	Chloride	8.00	4739276	3722293.00
3	5.27	Nitrite	4.00	4496382	3654183.00
4	6.40	Bromide	4.00	811867	659026.50
5	7.27	Nitrate	4.00	5650314	4398887.00
6	10.40	Sulfate	8.00	2850300	2002124.50



Ion Chromatography Calibration Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : STANDARD 9
 Sample Type : Calibration Update
 Data File Name : ...714_009.DXD
 Method File Name : ...20080714.met

Date Time Collected : 7/14/08 19:23:02
 Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Analyst : C. WOODS

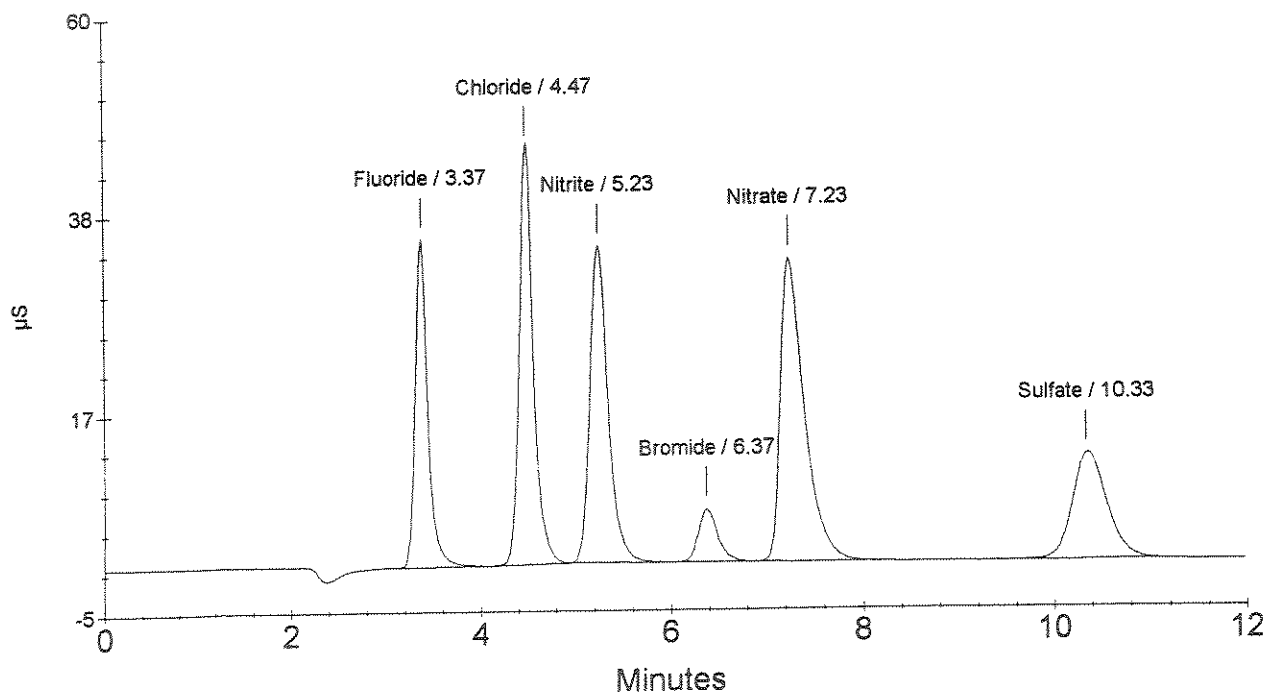
Dilution Factor : 1.00
 Sample Comment :
 Data Collection Rate : 1.00 Hz

Calibration Type : EXTERNAL
 Calibration Level : 9

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area	Cal Response Previous
1	3.37	Fluoride	5.00	3224449	3270646.00
2	4.47	Chloride	10.00	4734554	4819170.00
3	5.23	Nitrite	5.00	4482235	4604551.50
4	6.37	Bromide	5.00	813082	826269.50
5	7.23	Nitrate	5.00	5648535	5662353.50
6	10.33	Sulfate	10.00	2846795	2536305.50

OK
 ↓
 C.W. 7/15/08
 STANDARD 9



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : ICV
 Data File Name : ...\\714_010.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/14/08 19:37:23

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

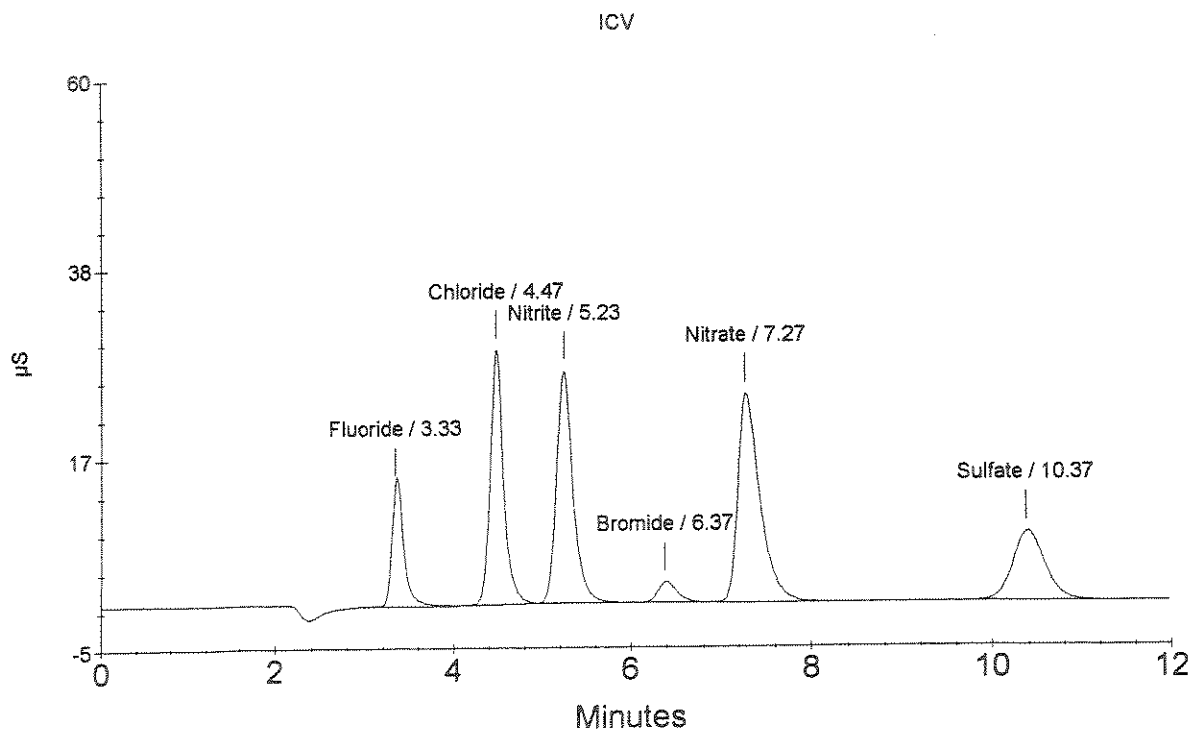
Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.33	Fluoride	2.062	1324266
2	4.47	Chloride	6.494	3004788
3	5.23	Nitrite	3.839	3404169
4	6.37	Bromide	2.123	342947
5	7.27	Nitrate	3.664	4041633
6	10.37	Sulfate	6.977	1962669

OK
 ↓
7/15/08



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : ICB
 Data File Name : ...\\714_011.DXD
 Method File Name : ...\\20080714.met
 Date Time Collected : 7/14/08 19:51:43

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

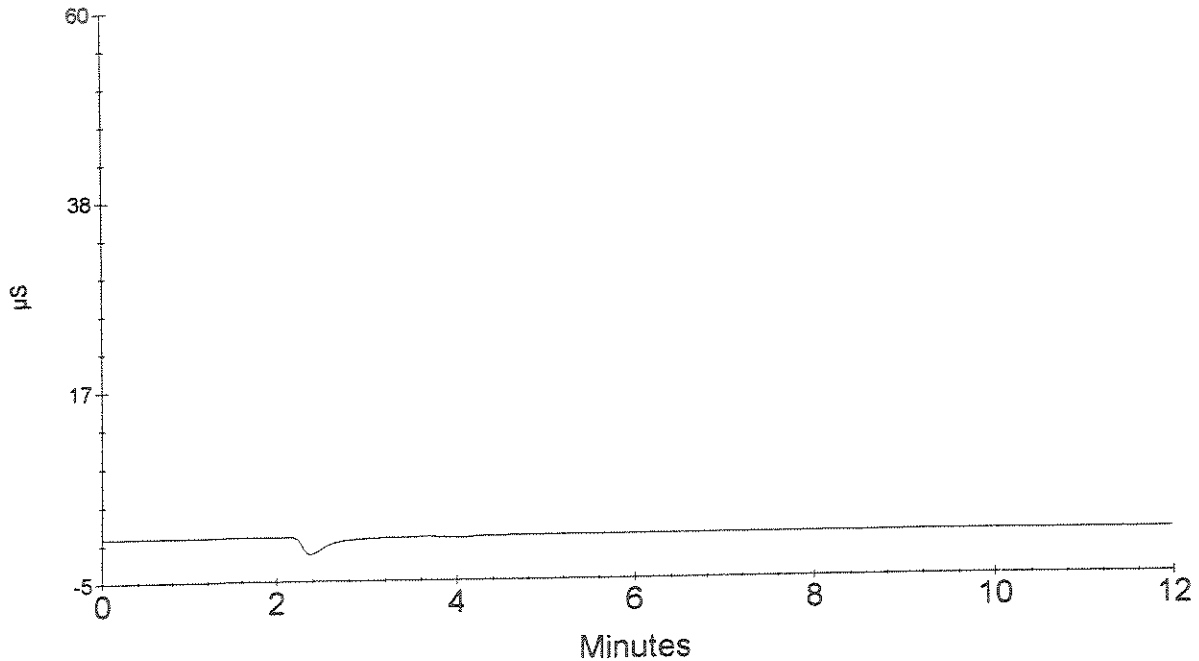
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
0	0.00	(null) Chloride Nitrite Bromide Nitrate Sulfate	0.000	0

OK
↓
CW
7/15/08

ICB



Ion Chromatography Analytical Report
 Columbia Analytical Services
 Rochester, NY 14607

Sample Name : LCS
 Data File Name : ...714_012.DXD
 Method File Name : ...20080714.met
 Date Time Collected : 7/14/08 20:06:02

Detector Name :
 Column ID : AS-14 (022939) AG-14 (022002)
 Method Comment : Calibration 07.14.2008
 Method Analyst : C. WOODS

Dilution Factor : 1.00
 Sample Type : Sample Analysis
 Sample Comment :

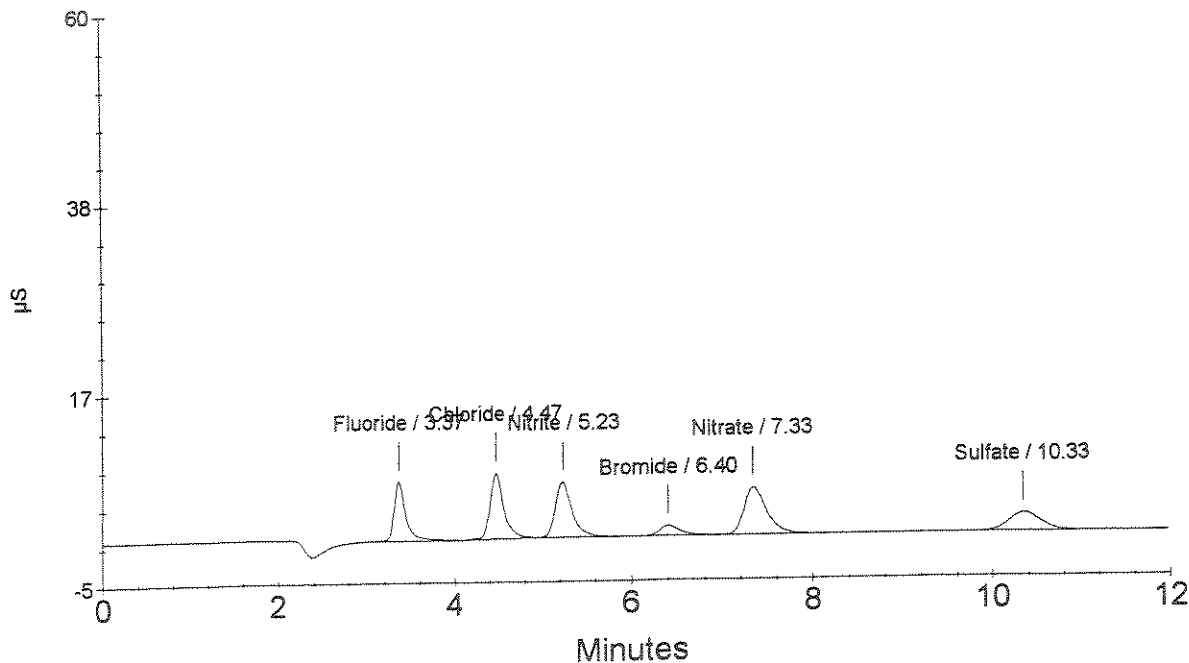
Data Collection Rate : 1.00 Hz
 Data Collection Period : 720.00 seconds
 Component Amount Units : mg/L

Peak Information : All Components

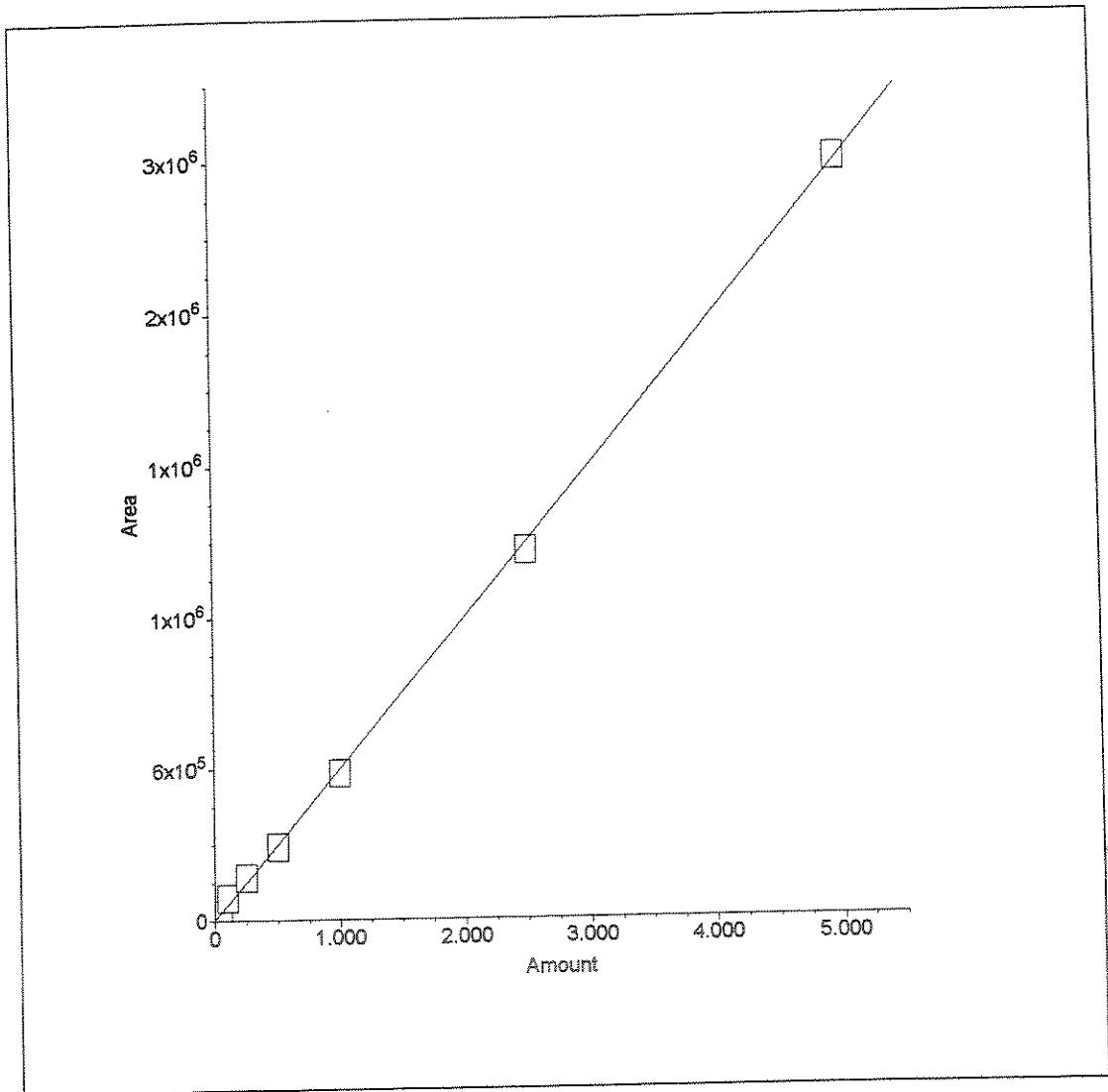
Peak Number	Peak Retention Time	Component Name	Component Amount (mg/L)	Peak Area
1	3.37	Fluoride	0.960	618674
2	4.47	Chloride	1.816	806318
3	5.23	Nitrite	0.941	806290
4	6.40	Bromide	1.000	160715
5	7.33	Nitrate	0.899	916977
6	10.33	Sulfate	1.869	514523

OK
 ↓
7/15/08

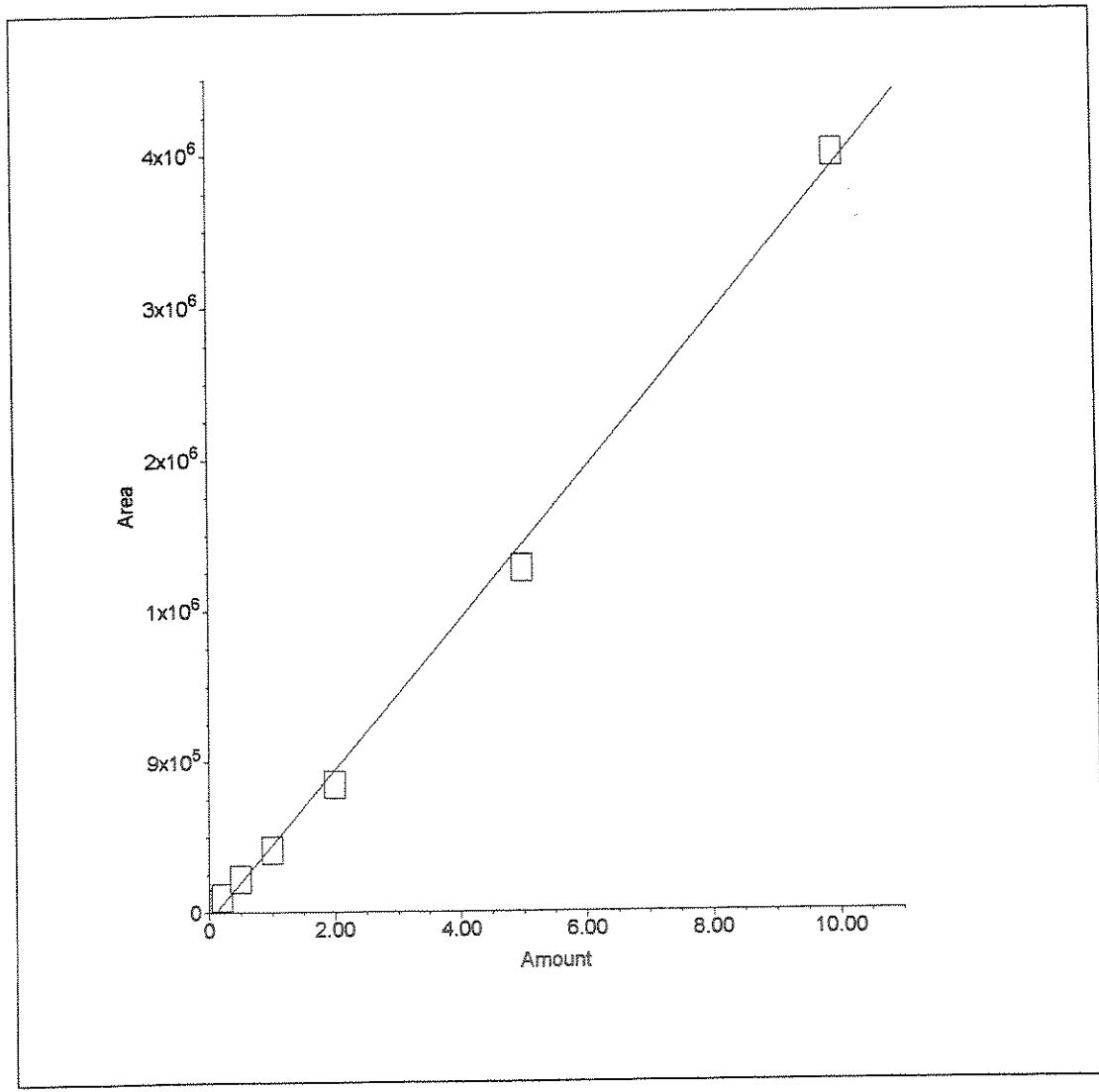
LCS



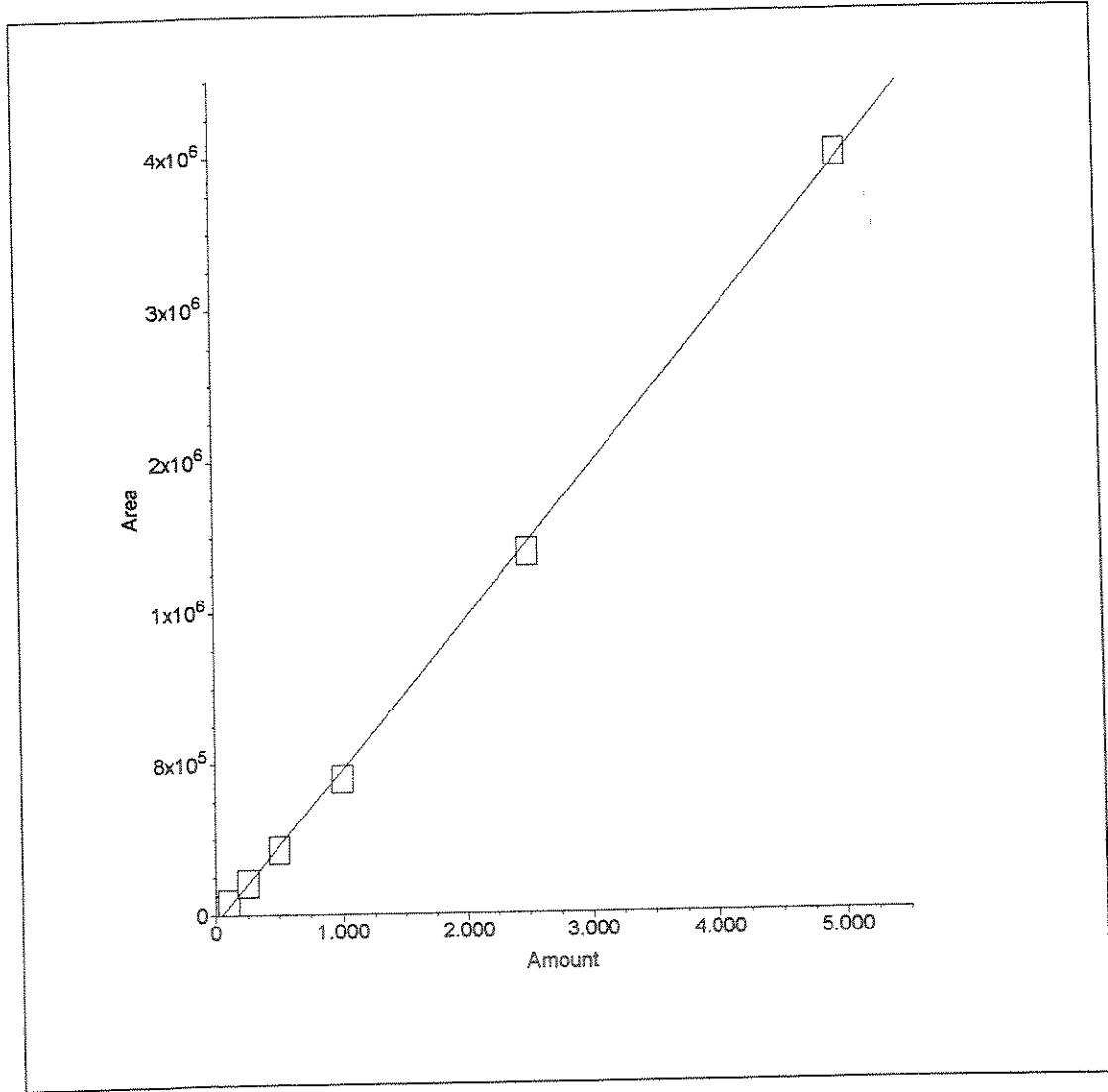
1. Component: Fluoride
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2=0.999661$
Amt= $1.561e-006 * Resp \pm 0.005265$



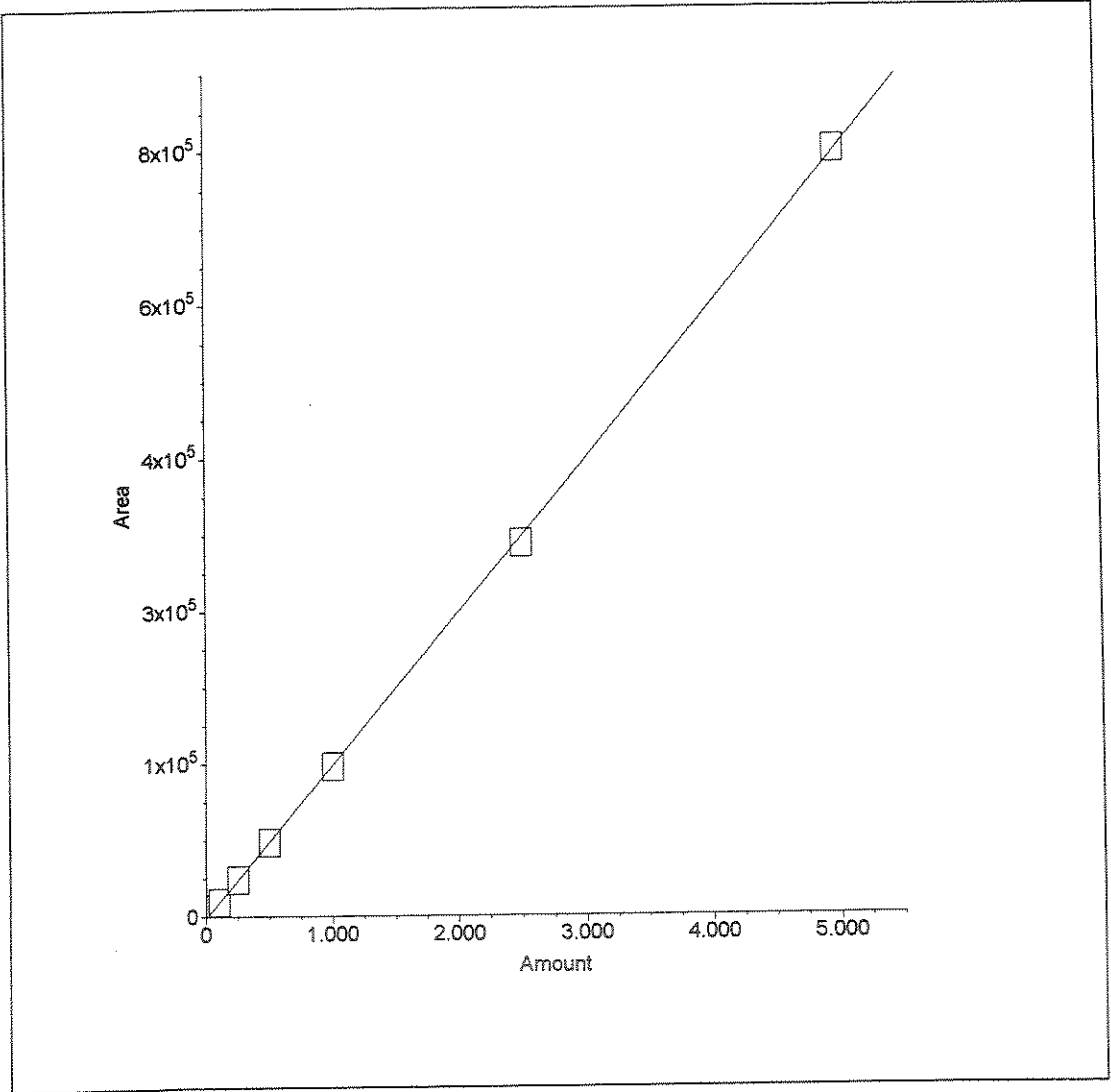
2. Component: Chloride
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2=0.997560$
 $Amt=2.127e-006*Resp+0.101$



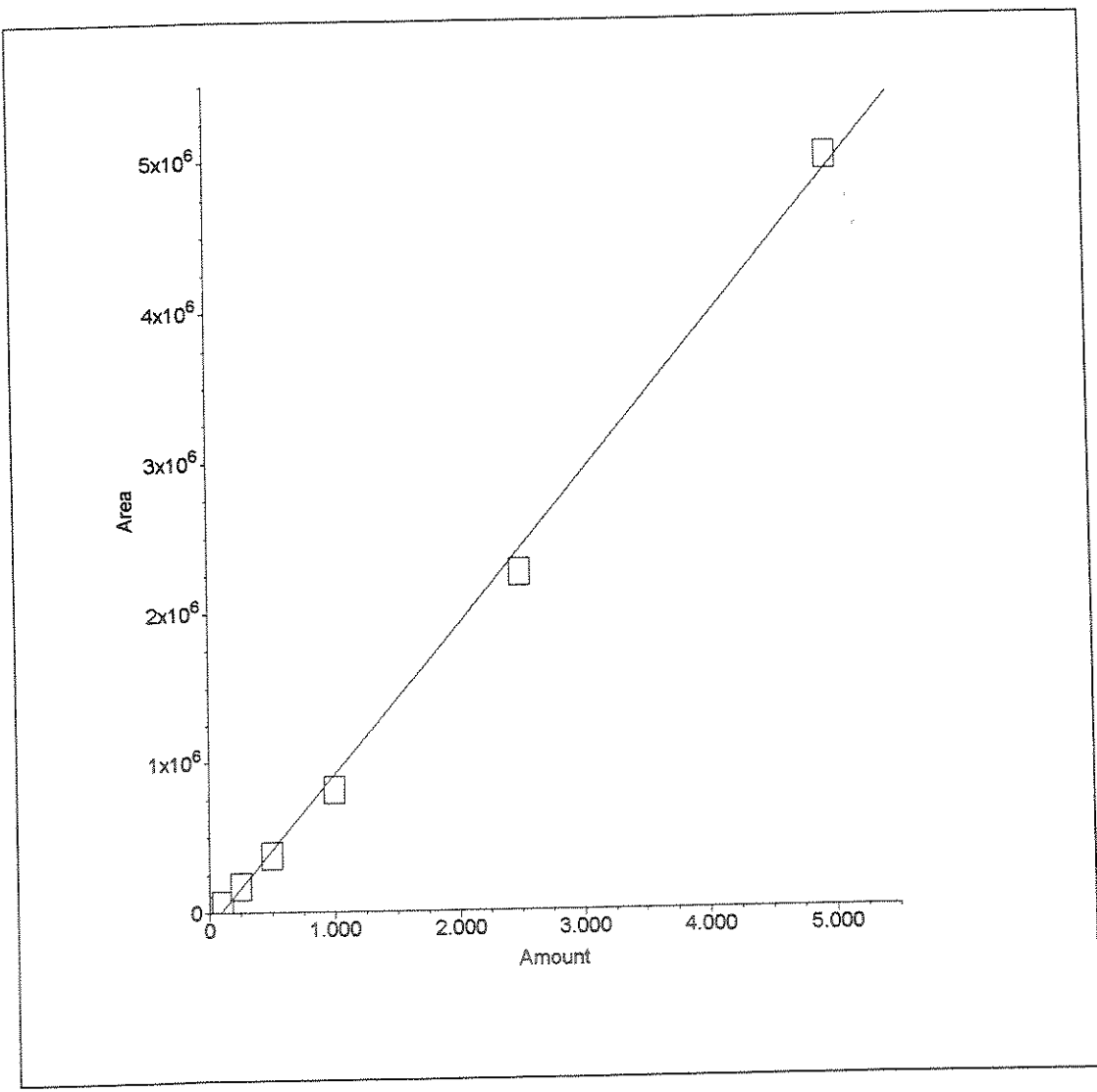
3. Component: Nitrite
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2 = 0.999425$
 $Amt = 1.115e-006 * Resp + 0.04236$



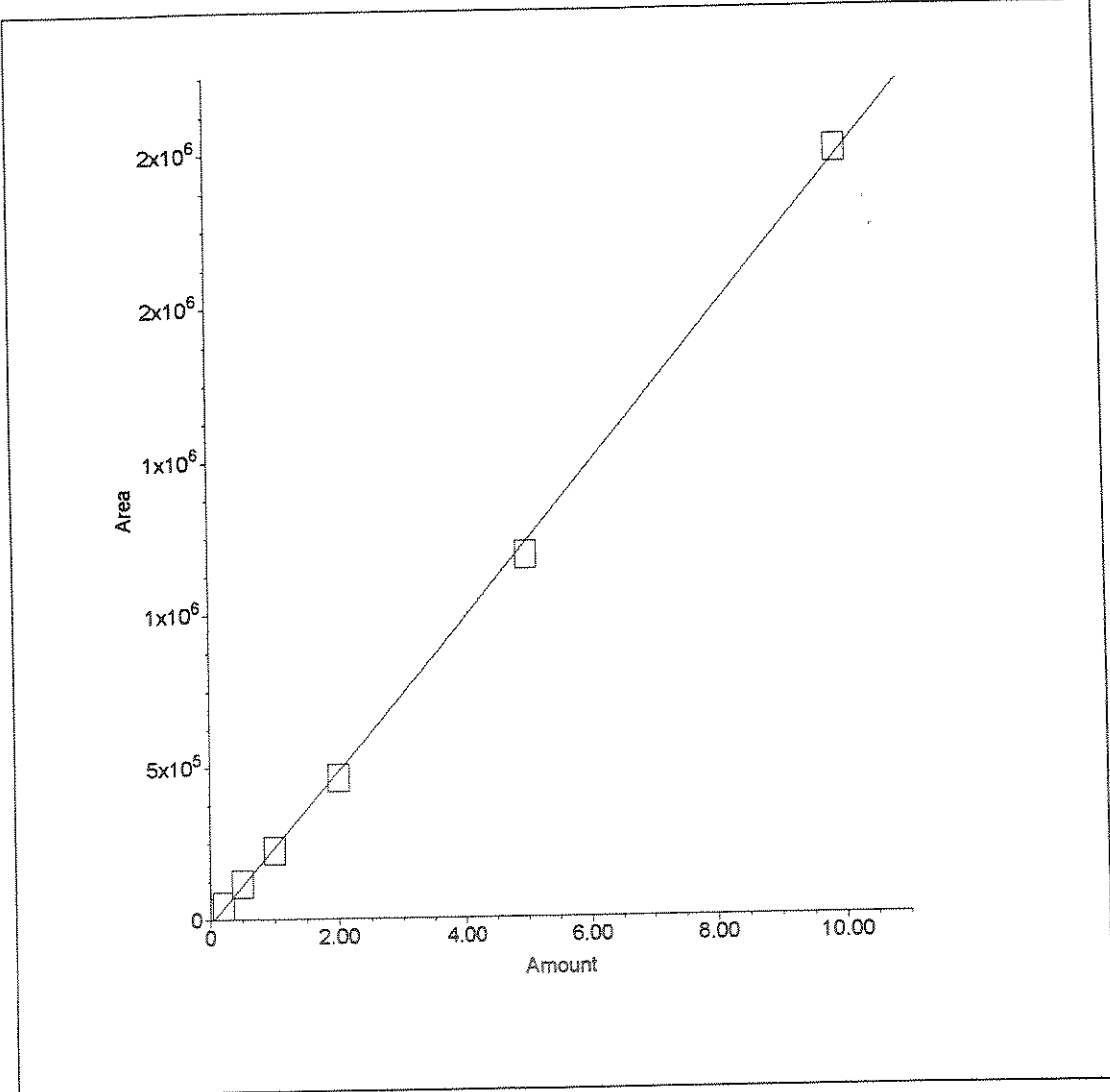
4. Component: Bromide
Standard: External Fit Type: Linear
Origin: Include Calibration: Area
 $r^2=0.999877$
Amt= $6.166e-006 * Resp + 0.008762$



5. Component:Nitrate
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.997474$
 $Amt=8.851e-007*Resp+0.08697$



6. Component:Sulfate
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
 $r^2=0.999377$
 $Amt=3.527e-006*Resp+0.05471$



Method Information : Select Module(s)

System Name : DX-Lan IC#4
 System Number : 1
 Method Type : Ion Chromatography
 Column : AS-14 (022939) AG-14 (022002)
 Analyst : C. WOODS
 Comment : Calibration 07.14.2008

ED40 Timed Events

Module Name :
 Module Serial Number :
 Operating Mode : Conductivity
 SRS Current : 100 mA
 Temperature Compensation : 1.7
 Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000	*		Low	Low	Open	Closed	
0.00	10.000	*		Low	Low	Open	Closed	
0.10	10.000			Low	Low	Closed	Closed	
2.20	0.010	*		Low	Low	Open	Closed	Begin

ED40 Detector Parameters

Detector Type : ED40
 Data collection time (minutes) : 12.00
 Data Collection Rate : 1.00
 Real time plot scale maximum (µS) : 60.000
 Real time plot scale minimum (µS) : -5.000

ED40 Integration Parameters

Peak detection algorithm : Standard
 Starting peak width (seconds) : 15.00
 Peak threshold : 2.00
 Peak area reject (area counts) : 10.00
 Reference peak area reject (area counts) : 1000.00

ED40 Smoothing Parameters

Filter Type : No filter

ED40 Report Data

Report Format File : J:\ACQUDATA\IC\METHOD.ACI\Ic#4\As14.rpt
Print Sample Analysis : Yes
Print Calibration Update : Yes
Print Check Standard : Yes
System Suitability Tests :
No system suitability tests selected.

ED40 Integration Data Events

Time	Description
0.00	Stop peak detection
2.50	Force baseline at start of all peaks
3.03	Halve peak threshold
3.05	Start peak detection
6.75	Double peak threshold

ED40 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 : mg/L
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

ED40 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.37 min	10.00 %	
Chloride	4.47 min	10.00 %	
Nitrite	5.23 min	10.00 %	
Bromide	6.37 min	10.00 %	
Nitrate	7.23 min	10.00 %	
Sulfate	10.33 min	10.00 %	

ED40 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.37 min	0.05	5
Chloride	4.47 min	0.1	10
Nitrite	5.23 min	0.05	5
Bromide	6.37 min	0.05	5
Nitrate	7.23 min	0.05	5
Sulfate	10.33 min	0.1	10

ED40 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.37 min	Linear	Include	Area	Fluoride	0.00
Chloride	4.47 min	Linear	Include	Area	Fluoride	0.00
Nitrite	5.23 min	Linear	Include	Area	Fluoride	0.00
Bromide	6.37 min	Linear	Include	Area	Fluoride	0.00
Nitrate	7.23 min	Linear	Include	Area	Fluoride	0.00
Sulfate	10.33 min	Linear	Include	Area	Fluoride	0.00

ED40 Component = Fluoride Levels Table

Retention Time : 3.37 min
 Amount units : mg/L
 Replicate unit type : Area
 Number of levels : 9
 Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	37771
2	0.05	28892.5
3	0.10	97180.5
4	0.25	183632
5	0.50	314710
6	1.00	626925
7	2.50	1.57399e + 006
8	4.00	3.23164e + 006
9	5.00	3.22445e + 006

*CMW
7/15/08*

ED40 Component = Chloride Levels Table

Retention Time : 4.47 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	13388 <i>7/14/08</i>
2	0.10	61487
3	0.20	97410
4	0.50	211786
5	1.00	392997
6	2.00	802860
7	5.00	2.1559e + 006
8	8.00	4.73928e + 006
9	10.00	4.73455e + 006

ED40 Component = Nitrite Levels Table

Retention Time : 5.23 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	70747.5 <i>7/14/08</i>
2	0.05	34067.5
3	0.10	72676
4	0.25	191004
5	0.50	386713
6	1.00	810000
7	2.50	2.14875e + 006
8	4.00	4.49628e + 006
9	5.00	4.48224e + 006

ED40 Component = Bromide Levels Table

Retention Time : 6.37 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	27470
2	0.05	8476
3	0.10	16037
4	0.25	39674
5	0.50	79051
6	1.00	159748
7	2.50	397100
8	4.00	811867
9	5.00	813082

7/14/08

ED40 Component = Nitrate Levels Table

Retention Time : 7.23 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5310.5
2	0.05	22029.5
3	0.10	62564
4	0.25	199002
5	0.50	427082
6	1.00	921605
7	2.50	2.55315e + 006
8	4.00	5.65031e + 006
9	5.00	5.64854e + 006

7/14/08

ED40 Component = Sulfate Levels Table

Retention Time : 10.33 min
Amount units : mg/L
Replicate unit type : Area
Number of levels : 9
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7283
2	0.10	28373
3	0.20	53797
4	0.50	134934
5	1.00	259135
6	2.00	529000
7	5.00	1.35435e + 006
8	8.00	2.8503e + 006
9	10.00	2.84679e + 006

CM
7/14/08

ED40 XY Data Parameters

GP40 Timed Events

Module Name :
 Module Serial Number :
 Description : Anions on an AS-16/AG-16 Column setup with a carbonate/bicarbonate eluent.
 High Pressure Limit : 4000.0
 Low Pressure Limit : 30.0
 Eluent A :
 Eluent B : 35mM Na₂CO₃ / 10mM NaHCO₃
 Eluent C :
 Eluent D :
 Piston Size : Standard
 Pressure Unit : psi
 Oven Not Installed

Time	Flow	%A	%B	%C	%D	Curve	Comment
Init	1.00	0.00	100.00	0.00	0.00	5	start AS40 load cycl
0.00	1.00	0.00	100.00	0.00	0.00	5	preparing to inject
0.10	1.00	0.00	100.00	0.00	0.00	5	preparing to inject
2.20	1.00	0.00	100.00	0.00	0.00	5	Injecting sample
3.20	1.00	0.00	100.00	0.00	0.00	5	Finished injection

Time	Valve	Column	TTL1	TTL2	Relay1	Relay2
Init	Load	A	High	Low	Open	Open
0.00	Load	A	High	Low	Open	Open
0.10	Load	A	High	High	Open	Open
2.20	Inject	A	High	Low	Open	Open
3.20	Load	A	Low	Low	Open	Open

Ion Chromatography Cover Sheet

Instrument: Dionex 500DX Ion Chromatogram

Column: Dionex AS-14/AG-14, 4/10/2007

Curve Date: 07/14/08

Loop size: 100 uL

Analyst: C. Woods

Analysis Date: 7-14-08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
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	06/23/08	WC90100H
CCV Intermediate	06/23/08	WC90100A	Working CCV Standard	DAILY	WC90100H

Comments:

CURVE EXPIRES 12/10/08

Standard #8 Removed from Cal.

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	WC850FF	1000	10	200	50	CMW	7/14/08	A	12/16/08	WC90011A
Cl	WC85106C	1000	20		100			B		
NO2	WC72001J	1000	10		50			C		
Br	WC85160D	1000	10		50			D		
NO3	WC85160D	1000	10		50			E		
OPO4		1000	10		50			F		
SO4	WC72001Y	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.								Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
				F	Cl	NO2	Br	NO3	OPO4	SO4						
9		10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	5.0	10.0	CMW	7/14/08	H	7/21/08	WC90011H
8		8.0		4.0	8.0	4.0	4.0	4.0	4.0	4.0	8.0			I		
7		2.0	100	2.5	5.0	2.5	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	1.0	2.0			K		
5		1.0		0.5	1.0	0.50	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	0.25	0.50			M		
3		0.2		0.10	0.20	0.10	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	0.05	0.10			O		
1		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			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	WC90100A
Cl	WC85106D	650	20.0		13.0			B		
NO2	WC72007E	180	40.0		7.2			C		
Br	WC85037D	1000	4.0		4.0			D		
NO3	WC72007N	180	40.0		7.2			E		
OPO4	—	180	40.0		7.2			F		
SO4	WC72006Y	3200	4.0		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	WC90100A	4.0	5.0	20.0	1.0	TC	DAILY	H	WC90100H
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				

02091

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	WC90011A	50	2.0	100	1.0	CMM	7/14/08	A	7/21/08	WC90051A
Cl		100		2.0	2.0					
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 #: 162566
Analyte: MBAS 425.1 SURFACTANTS
Printed: 06/19/08 13:25

R44538
1 copy

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED RESULT</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
ESMP	R2844500	1109222	WATER	0.121		1.0	0.0200			06/17/08		1
ESMP	R2844538	1109708	WATER	0.00610		1.0	0.0200			06/17/08		ASPB
BLK2		1110345	WATER	0.0200	U	1.0	0.0200			06/17/08		
SPKB		1110346	WATER	0.0221		1.0	0.0200	110.5		06/17/08		
SPKB		1110347	WATER	0.377		1.0	0.0200	94.3		06/17/08		

Records printed: 5

Reviewed & Approved
By: CK
Date: 6/19/08

Analyte: Surfactants (MBAs)
 Method: EPA 425.1 / SM20 5540C

Analyst: DCB
 Pipette: NA

Date: 6/17/08
 Time: 9:30

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	0.310	0.3125	1.0	0.3125
4	CCB/PB	500.000	0.000	0.0031	1.0	0.0031
5	LCS-LL	500.000	0.019	0.0221	1.0	0.0221
6	LCS-HL	500.000	0.375	0.3773	1.0	0.3773
7	LCS2	500.000	0.380	0.3823	1.0	0.3823
8	LCS3	500.000	0.382	0.3843	1.0	0.3843
9	LCS4	500.000	0.395	0.3973	1.0	0.3973
10	R-44500	1109222	0.118	0.1209	1.0	0.1209
11	R-44538	1109708	0.003	0.0061	1.0	0.0061
12	CCV	500.000	0.298	0.3005	1.0	0.3005
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						

104%

100%

6/17/08
 DCB

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

6/10/08
200



(A) NO₂ Color Reagent - Konelab

In 100 ml vol. flask dissolve 100g sulfanilamide (WC76195E) and 0.100g NED (WC76200H). Dissolve in 10 ml H₂PO₄ (WC76294F) and bring to volume with DI. Store at 4°C exp 1 month 7/10/08.

(B) Ascorbic Acid - Konelab

In 100 ml vol flask dissolve 100g ascorbic acid (WC85125C7) in 40 ml UPDI with 60 ml acetone (WC761001). Bring to volume with UPDI. exp 2 weeks 6/30/08 store at 4°C

6/17/08 (C) 1 ppm LAS Standard

200 To a 1L volumetric flask, dilute 1 ml of LAS Standard Stock (WC85110C) to volume with DI. Store at 4°C in amber glass exp 9/2008

Lloyd Kahn Soils - OI Analytical Instrument

6/17/08 (D) Calibration Standards

Std #	mg KHP (WC85076G)	mg Carbon
1	0 mg	0 mg C
2	2.1 mg	1 mg C
3	10.6 mg	5 mg C
4	31.9 mg	15 mg C
5	63.8 mg	30 mg C

(E) LCS

• To a tared combustion boat, add 21.3 mg of KHP standard (WC85076G). Combust as normal.
True value is 10 mg Carbon.

(F) I/CCV

• To a tared combustion boat, add 42.6 mg of a secondary KHP sugar (WC76025F). Combust as

6/9/08 DCB (A) 1 ppm LAS Reference

To a 1L volumetric flask, dilute 1ml of LAS Reference Stock (WC85110C) to volume with DI. Store at 4°C in amber glass, expires 1yr, ^{or exp of source} ~~6/9/08~~ 9/2008
6/9/08 DCB

6/9/08 DCB (B) 1 ppm LAS Standard

To a 1L volumetric flask, dilute 1ml of LAS Standard Stock (WC850046E) to volume with DI. Store at 4°C in amber glass, expires 1yr or exp of source 10/08

6/9/08 HLR (C) Eriochrome Black T - Hardness Indicator

Add 50.0g NaCl (WC85109J) and 0.25g ^{the indicator} Eriochrome Black-T (WC69284E) to a tared B-cup. Cap and shake well to mix. Store at r.t. exp. 5/31/10

6/10/08 TC (D) 1000 ppm Bromide Standard

Dissolve 1.4894g KBr (WC85022B) in DI and dilute to 1000mls volumetrically. Store in amber glass @ 4°C. Exp 6 months, 12/10/08.

RP 6/10/08 (E) 0.0250N Na₂S₂O₃ - sulfides

Dilute 50mls 0.1N Na₂S₂O₃ (WC85030B) to 200mls volumetrically w/ DI. Store at 4°C. Exp. 6/24/08

RP 6/10/08 (F) Sulfide Reference

To a tared amber jar add ~0.40g ~~Na₂S₂O₃~~ Na₂S · 9H₂O (WC76230B) and dilute w/ 100ml DI. Mix until dissolved. Store at 4°C for 2 weeks. exp. 6/24/08

6/10/08 (G) MBAS Wash Solution

Run #: 162785
Analyte: MBAS 425.1 SURFACTANTS
Printed: 06/20/08 15:11

R44538
10/28

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	POL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK5	—	1111088	WATER	0.296	1.0	0.0200	98.5		06/20/2008		
BLK4	—	1111089	WATER	0.0200	1.0	0.0200			06/20/2008		
SPKB	—	1111090	WATER	0.0161	1.0	0.0200	80.5		06/20/2008		
SPKB	—	1111091	WATER	0.387	1.0	0.0200	96.8		06/20/2008		
ESMP	R2844538	—	1110532	WATER	4.0	0.0200			06/20/2008		ASPB
ESMP	R2844538	—	1110981	WATER	3.0	0.0200			06/20/2008	RUN	ASPB

Records printed: 6

Reviewed & Approved
By: AK
Date: 06/25/08

Analyte: Surfactants (MBAs)
Method: EPA 425.1 / SM20 5540C

Analyst: C. WOODS
Pipette: Volumetric

Date: 6/20/08
Time: 12:00

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	
1	TV = 0.30	ICV	500.000	0.305	0.3075	1.0	102.5%
2		ICB/PB	500.000	0.000	0.0031	1.0	0.0031
3	TV = 0.30	CCV	500.000	0.293	0.2955	1.0	0.2955
4		CCB/PB	500.000	0.000	0.0031	1.0	0.0031
5	TV = 0.02	LCS-LL	500.000	0.013	0.0161	1.0	0.0161
6	TV = 0.40	LCS-HL	500.000	0.385	0.3873	1.0	0.3873
7		1110532	500.000	0.293	0.2955	4.0	1.1820
8		1110981	500.000	0.173	0.1758	3.0	0.5273
9	TV = 0.30	CCV	500.000	0.310	0.3125	1.0	0.3125
10		CCB/PB	500.000	0.003	0.0061	1.0	0.0061

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

Surfactants - Curve analyzed on 6/16/08

CMW
6/20/08

Ⓐ 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

Ⓑ I/CCV

- Add 150 mLs of 1ppm LAS reference to sep. funnel + add 350 mLs DI. Analyze. Prepare fresh each run. True Value = 3.0 ppm.

Ⓒ LCS - Low Level

- Add 10 mLs of 1ppm LAS Standard to sep. funnel + add 490 mLs DI. Analyze. Prepare fresh each run. True Value = 0.02 ppm.

Ⓓ LCS - high level

- Add 200 mLs of 1ppm LAS Standard to sep. funnel + add 300 mLs DI. Analyze. Prepare fresh each run. True Value = 0.40 ppm.

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 in Sample add
 - 1 mLs sulfide ^{working std. WCSS5045D} ~~reference~~ for MS
 - 2 mLs sulfide ^{working std. WCSS5045D} ~~reference~~ for LCS

(B) CCV for AVS
 use the 4 mL cal. std. from WCSS5045D.

(C) CGB for AVS
 use the 0.00 Cal. Std. from WCSS5045D.

10/11/07
 GN (D) TKN DIRECT REAGENT
 - same as WCSS5040E. Exp. 1 month 11/1/07

01/1/07
 (E) Received from VWR
 (E) (1) x 120 mL Linear Alkylbenzene Sulfonate (LAS)
 Cat. no. 4350-4 RICCA Lot # 2709220
 CAS no 7664-93-9 Store @ 4°C exp 9/08

01/1/07
 RP (F) FTSS 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 @ RT.
 Expires 10/1/10.
 (I) (1) x 500 mL Phenol liquidified, Cat # PX0511-1,
 EMD Lot # 46318, CAS # 108-95-2. Store in
 flammable cabinet. Expires 10/1/10
 (J) (1) x 500 mL Calcium Standard, 1 mL = 1 mg CaCO₃.
 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
 fls

Received
 (B) (1) x
 Fisher
 Expu

Received
 (C) (3) x
 Cat #
 Same
 Expu

10/2/07
 NM (D) Post-
 To a
 (WCSSC
 thorough
 to volu
 amber g

(E) Hypoch
 -same

(F) 0.8 M
 -same

10/2/07
 (H) Alkalinity 5
 100 mL
 with DI

10/2/07
 AB (I) FAS TO
 Same a

(J) 0.005 M
 same a

2/13/08 Received from VWR

BB

- (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, RICEA 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 (WC69285G) brought to 1000g w/DI.
Store at 4°C in a plastic bottle.
TV=215mg/L exp: 02/14/2009

2/14/08
Nm(E) Sodium Phenolate - NH₃

-same as WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN

-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

To a tared 1 liter amber glass jar add:

- 75.0g Sodium Salicylate (WC85097B)
- 0.50g Sodium Nitroprusside (WC85102D)
- 454g UPDI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH₃

-same as WC85105 C. Exp. 1 year, 2/14/09.

(J) Buffer - NH₃

-same as WC85094 B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN 1

TC To ~ 7

To a 2

- 268g

- 14.6g

to ~ 500

Slowly

Dissolve

to vol.

2/14/08
RP(B) Rec'd 1

(1) x 100 pc

CAS # 65

Rec'd

exp. 1

KR
02/14/08(C) TSS Ref

0.3003

with T

2/15/08 (D) Post-T

Nm TO a

(WC85111)

Pour off 10

mix there

(E) Hypochl

15.0 mL

Prepare 1

2/19/08 (F) NH₃ (

Nm -same as

(G) Hypochl

-same 0

Run #: 163177

Analyte: MBAS SM5540C SURFACTANTS

Printed: 06/30/08 11:59

R44538
1 copy

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	1110532	WATER	1.18	4.0	0.0200			06/20/2008		ASPB
CHK5		1113552	WATER	0.296	1.0	0.0200	98.5		06/20/2008		
BLK4		1113553	WATER	0.0200	1.0	0.0200			06/20/2008		
SPKB		1113554	WATER	0.0161	1.0	0.0200	80.5		06/20/2008		
SPKB		1113555	WATER	0.387	1.0	0.0200	96.8		06/20/2008		
ESMP	R2844538	1110981	WATER	0.527	3.0	0.0200			06/20/2008	RUN	ASPB

Records printed: 6

Reviewed & Approved

By: CK

Date: 6/24/08

Analyte: Surfactants (MBAs)
Method: EPA 425.1 / SM20 5540C

Analyst: C. WOODS
Pipette: Volumetric

Date: 6/20/08
Time: 12:00

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	
1	TV = 0.30	ICV	500.000	0.305	0.3075	1.0	102.5%
2		ICB/PB	500.000	0.000	0.0031	1.0	0.0031
3	TV = 0.30	CCV	500.000	0.293	0.2955	1.0	0.2955
4		CCB/PB	500.000	0.000	0.0031	1.0	0.0031
5	TV = 0.02	LCS-LL	500.000	0.013	0.0161	1.0	0.0161
6	TV = 0.40	LCS-HL	500.000	0.385	0.3873	1.0	0.3873
7		1110532	500.000	0.293	0.2955	4.0	1.1820
8		1110981	500.000	0.173	0.1758	3.0	0.5273
9	TV = 0.30	CCV	500.000	0.310	0.3125	1.0	0.3125
10		CCB/PB	500.000	0.003	0.0061	1.0	0.0061

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

Surfactants - Curve analyzed on 6/16/08

CMW
6/20/08

Ⓐ 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

Ⓑ I/CCV

- Add 150 mLs of 1ppm LAS reference to sep. funnel + add 350 mLs DI. Analyze. Prepare fresh each run. True Value = 3.0 ppm.

Ⓒ LCS - Low Level

- Add 10 mLs of 1ppm LAS Standard to sep. funnel + add 490 mLs DI. Analyze. Prepare fresh each run. True Value = 0.02 ppm.

Ⓓ LCS - high level

- Add 200 mLs of 1ppm LAS Standard to sep. funnel + add 300 mLs DI. Analyze. Prepare fresh each run. True Value = 0.40 ppm.

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 mL Sulfide ^{working std. w/ 500 μS} ~~reference~~ for MS
- 2 mL Sulfide ^{working std. w/ 500 μS} ~~reference~~ for LCS

(B) CCV for AVS
use the 4 mL cal. std. from WC85045D.

(C) CGB for AVS
use the 0.00 Cal. Std. from WC85045D.

10/11/07
GN

(D) TKN Digest Reagent
- same as WC85040F. Exp. 1 month 11/1/07

10/1/07

- (E) (1) x 120 mL Linear Alkylbenzene Sulfonate (LAS)
Cat. no. 4350-4 RICCA Lot # 2709230
CAS no 7664-93-9 Store @ 4°C exp 9/08

10/1/07
RP

(F) TSS Reference
0.2270g Kradin (WC69285G) brought to
1000g w/ DI. Stored @ 4°C in plastic bottle.
TV = 227 mg/L exp. 10/1/08

10/1/07
BB

- (G) (2) x 125g Ascorbic Acid, Cat # 0938-05, JT Baker
Lot # E22615, CAS # 50-81-7. Store w RT.
Expires 10/1/10
- (H) (1) x 125g Potassium Iodide, Cat # PX1505-3,
EMD Lot # 46285714, CAS # 7681-11-0. Store w RT.
Expires 10/1/10.
- (I) (1) x 500 mL Phenol liquidified, Cat # PX0511-1,
EMD Lot # 46318, CAS # 108-95-2. Store in
flammable cabinet. Expires 10/1/10
- (J) (1) x 500 mL Calcium Standard, 1 mL = 1 mg CaCO₃.
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
Expu

Received
(C) (3) x
Cat #
Same
Expu

10/2/07
NM

(D) Post-
To a
(WCSSC
thorough
to volu
amber g

(E) Hypoch
-same

(F) 0.8 M
-same

10/2/07
AP

(H) Alkalinity
100 mL
with DI

10/2/07
AB

(I) FAS TD
Same a

(J) 0.0036
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, RICEA Lot#
1710411, CAS# 68411-30-3, 7664-93-9. Store @ 4°C.
Expires 10/2008.

- KR
2/14/08
- (D) TSS Reference
0.2153g Naolin (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 WC85088 F. Exp. 1 year, 2/14/09.

- (F) 0.8M NaOH - TKN
-same as WC85090 I. Exp. 3/14/08.

- (G) Buffer - TKN
-same as WC85088 E. Exp. 1 month, 3/14/08

- (H) Color Reagent - TKN
To a tared 1 liter amber glass jar add:
- 75.0g Sodium Salicylate (WC85099B)
- 0.50g Sodium Nitroprusside (WC85102D)
- 454g UPDI.
Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

- (I) Color Reagent - NH₃
-same as WC85105 C. Exp. 1 year, 2/14/09.

- (J) Buffer - NH₃
-same as WC85094 B. Exp. 1 year, 2/14/09

- 2/14/08 (A) TKN 1
TC To ~ 7 L
To a 2
- 268g
- 14.6g
to ~ 500
Slowly
Dissolve
to vol.

- 2/14/08
RP
- (B) Rec'd 1
(1) x 100 pc
CAS # 685
Rec'd
exp. 1

- KR
02/14/08
- (C) TSS Ref
0.3003
with T

- 2/15/08
NM
- (D) Post-T
TO a
(WC851111
Pour off 10
mix thro

- (E) Hypochl
150 mL
Prepare 1

- 2/19/08
NM
- (F) NH₃
-same as

- (G) Hypochl
-same as

Run #: 162825
 Analyte: MEAS 425.1 SURFACTANTS
 Printed: 06/24/08 10:25

*R444538
1 copy*

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK5	←	1111620	WATER	0.302	1.0	0.0200	100.8		06/21/2008		
BLK4	—	1111621	WATER	0.0200	1.0	0.0200			06/21/2008		
SPKB	—	1111622	WATER	0.399	1.0	0.0200	99.8		06/21/2008		
SPKB	—	1111623	WATER	0.0201	1.0	0.0200	100.5		06/21/2008		
ESMP	R2844538 ←	1111264	WATER	0.292	1.0	0.0200			06/21/2008	RUN	ASPB
ESMP	R2844538 —	1111265	WATER	0.635	2.0	0.0200			06/21/2008	RUN	ASPB
ESMP	R2844538 —	1111266	WATER	0.751	2.0	0.0200			06/21/2008	RUN	ASPB
ESMP	R2844538 →	1111267	WATER	0.655	2.0	0.0200			06/21/2008	RUN	ASPB

Records printed: 8

Reviewed & Approved
 By: CL
 Date: 6/25/08

Analyte: Surfactants (MBAs)
 Method: EPA 425.1 / SM20 5540C

Analyst: C. WOODS
 Pipette: 1/1.

Date: 6/21/08
 Time: 12:00

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	
1	ICV	500.000	0.305	0.3075	1.0	102.5%	
2	ICB/PB	500.000	0.000	0.0031	1.0	0.0031	
3	CCV	500.000	0.300	0.3025	1.0	0.3025	
4	CCB/PB	500.000	0.000	0.0031	1.0	0.0031	
5	LCS-LL HL	500.000	0.397	0.3993	1.0	0.3993	
6	LCS-LL LL	500.000	0.017	0.0201	1.0	0.0201	
7	R-44538	1111267	500.000	0.325	0.3274	2.0	0.6549
8		1111265	500.000	0.315	0.3175	2.0	0.6349
9		1111266	500.000	0.373	0.3753	2.0	0.7507
10		1111264	500.000	0.289	0.2915	1.0	0.2915
11		CCV	500.000	0.301	0.3035	1.0	0.3035
12		CCB/PB	500.000	0.000	0.0031	1.0	0.0031

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

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.

(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. w/ 500 mg S}
 - 2 mLs sulfide ^{working std. w/ 500 mg S}

(B) CCV for AVS
 use the 4 ml cal. std. from WCSS045D.

(C) COB for AVS
 use the 0.00 Cal. Std. from WCSS045D.

10/11/07
 GN (D) TKN DIGEST REAGENT
 - same as WCSS040E. Exp. 1 month 11/1/07

10/1/07
 (E) Received from VWR
 (E) (1) x 120 mL Linear Alkylbenzene 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 Kestin (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 w RT.
 Expires 10/1/10

(H) (1) x 125g Potassium Iodide, Cat # PX1505-3.
 EMD Lot # 46285714, CAS # 7681-11-0. Store w RT.
 Expires 10/1/10.

(I) (1) x 500 mL Phenol liquefied, Cat # PX0511-1.
 EMD Lot # 46318, CAS # 108-95-2. Store in
 flammable cabinet. Expires 10/1/10

(J) (1) x 500 mL Calcium Standard, 1 mL = 1 mg CaCO₃.
 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
 BB Received
 (A) (1)
 BDH
 fla

Received
 (B) (1) x
 Fisher
 Expu

Received
 (C) (3) x
 Cat #
 same
 Expu

10/2/07
 NM (D) Post-
 To a
 (WCSS0
 thorough
 to volu
 amber g

(E) Hypoc
 -same

(F) 0.8 M
 -same

10/2/07
 BB (H) Alkalinity f
 100 mL
 with DI

10/2/07
 BB (I) FAS TO
 Same a

(S) 0.00 Std
 same

2/13/08 Received from VWR

BB

(A) (1) x 4L Sulfuric acid, 0.02000N, Cat# VW3299-4
VWR Lot# 7312, CAS# 7664-93-9. Store @ RT.

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 @ RT.

Expires 8/5/08

(C) (1) x 120mL Linear Alkylbenzene Sulfonate (LAS)
Standard, 1000 mg/L. Cat# 4350-4, RICEA Lot#

1710411, CAS# 68411-30-3, 7664-93-9. Store @ 4°C.

Expires 10/2008.

KR
2/14/08

(D) TSS Reference

0.2153g Naolin (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 WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN

-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

To a tared 1 liter amber glass jar add:

- 75.0g Sodium Salicylate (WC85078B)
- 0.50g Sodium Nitroprusside (WC85102D)
- 454g UPDI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH₃

-same as WC85105 C. Exp. 1 year, 2/14/09.

(J) Buffer - NH₃

-same as WC85044 B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN I

TC To a 2

- 268g

- 14.6g

to ~500

Slowly

Dissolve

to vol.

2/14/08
RP

(B) Rec'd f

(1) x 100 pe

CAS # 65

Rec'd

exp. 1

KR
02/14/08

(C) TSS Ref

0.3003

with T

2/15/08 (D) Post-T

NM TO a

(WC85111)

Pour off 10

ml then

(E) Hypochl

15.0 mL

Prepare 1

2/19/08 (F) NH₃ C

NM -same as

(G) Hypochl

-same C

Run #: 163179

Analyte: MBAS

SMS540C SURFACTANTS

Printed: 06/30/08 12:02

R44538
1 copy

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE		
				RESULT					ANALYZED	QC	PKG #
ESMP	R2844538	1111264	WATER	0.292	1.0	0.0200			06/21/2008	RUN	ASPB
CHK5		1113561	WATER	0.302	1.0	0.0200	100.8		06/21/2008		
BLK4		1113562	WATER	0.0200	1.0	0.0200			06/21/2008		
SPKB		1113563	WATER	0.0201	1.0	0.0200	100.5		06/21/2008		
SPKB		1113564	WATER	0.399	1.0	0.0200	99.8		06/21/2008		
ESMP	R2844538	1111265	WATER	0.635	2.0	0.0200			06/21/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER	0.751	2.0	0.0200			06/21/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER	0.655	2.0	0.0200			06/21/2008	RUN	ASPB

Records printed: 8

Reviewed & Approved

By: CK

Date: 6/24/08

Analyte: Surfactants (MBAs)
 Method: EPA 425.1 / SM20 5540C

Analyst: C. WOODS
 Pipette: 1/10

Date: 6/21/08
 Time: 12:00

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	
1	ICV	500.000	0.305	0.3075	1.0	102.5%	
2	ICB/PB	500.000	0.000	0.0031	1.0	0.0031	
3	CCV	500.000	0.300	0.3025	1.0	0.3025	
4	CCB/PB	500.000	0.000	0.0031	1.0	0.0031	
5	LCS- HL HL	500.000	0.397	0.3993	1.0	0.3993	
6	LCS- HL LL	500.000	0.017	0.0201	1.0	0.0201	
7	R-44538	1111267	500.000	0.325	0.3274	2.0	0.6549
8		1111265	500.000	0.315	0.3175	2.0	0.6349
9		1111266	500.000	0.373	0.3753	2.0	0.7507
10		1111264	500.000	0.289	0.2915	1.0	0.2915
11	CCV	500.000	0.301	0.3035	1.0	0.3035	
12	CCB/PB	500.000	0.000	0.0031	1.0	0.0031	

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

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.

(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 mL Sulfide ^{working std. WCSS5045D}
 - 2 mL Sulfide ^{working std. WCSS5045D}

(B) CEV for AVS
 use the 4 mL cal. std. from WCSS045D.

(C) COB for AVS
 use the 0.00 Cal. Std. from WCSS045D.

10/01/07 GN (D) TKN DIEST REAGENT
 - same as WCSS040E. Exp. 1 month 11/01/07

10/1/07 (E) Received from VWR
 (1) x 120 mL Linear Alkylbenzene 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) PTSS 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 (G) Received from VWR.
 (2) x 125g Ascorbic Acid, Cat # 0938-05, JT Baker
 Lot # E22615, CAS # 50-81-7. Store w 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 500 mL Phenol liquefied, Cat # PX0511-1,
 EMD Lot # 46318, CAS # 108-95-2. Store in
 flammable cabinet. Expires 10/1/10

(J) (1) x 500 mL Calcium Standard, 1 mL = 1 mg CaCO₃.
 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)
 BDA
 Fla

Received
 (B) (1) x
 Fisher
 Expu

Received
 (C) (3) x
 Cat #
 Same
 Expu

10/2/07 NM (D) Post-
 To a
 (WCSSC
 Thorough
 to volu
 amber j

(E) Hypoch-
 -same

(F) 0.8 M
 -same

10/2/07 sup (H) Alkalinity f
 100 mL c
 with DI

10/2/07 AB (I) FAS TO
 Same a.

(S) 0.002x
 same a

2/13/08 Received from VWR

BB

- (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, RICEA 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 Naolin (WC692356) brought to 1000g w/DI.
Store at 4°C in a plastic bottle.
TV=215mg/L exp: 02/14/2009

2/14/08
NM

(E) Sodium Phenolate - NH₃

-same as WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN

-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

To a tared 1 liter amber glass jar add:

- 75.0g Sodium Salicylate (WC85098B)
- 0.50g Sodium Nitroprusside (WC85102D)
- 454g UPDI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH₃

-same as WC85105 C, Exp. 1 year, 2/14/09.

(J) Buffer - NH₃

-same as WC85094 B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN I

TC To a 2
- 268g
- 14.6g
to ~500
Slowly
Dissolve
to vol.

2/14/08
RP

(B) Rec'd f

(1) x 100 pe
CAS # 685
Rec'd
exp. (

KR
02/14/08

(C) TSS Ref

0.3003
with T

2/15/08 (D) Post-T

NM TO a
(WC851111
Pour off 10
mix there

(E) Hypochl

15.0 mLs
Prepare f

2/19/08 (F) NH₃ (

NM -same as

(G) Hypochl

-same a

Run #: 163164

Analyte: MBAS SM5540C SURFACTANTS

Printed: 06/30/08 11:07

R44538
1 copy

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	1111763	WATER	1.05	4.0	0.0200			06/23/08	RUN	ASPB
ESMP	R2844538	1111764	WATER	0.931	4.0	0.0200			06/23/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	0.811	4.0	0.0200			06/23/08	RUN	ASPB
BLK2		1113499	WATER	0.0200	1.0	0.0200			06/23/08		
SPKB		1113500	WATER	0.0251	1.0	0.0200	125.5		06/23/08		
SPKB		1113501	WATER	0.442	1.0	0.0200	110.6		06/23/08		

Records printed: 6

Reviewed & Approved

By: CHILBY

Date: 7/1/08

Analyte: Surfactants (MBAs)
 Method: EPA 425.1 / SM20 5540C

Analyst: DCB
 Pipette: Volumetric

Date: 6/23/08
 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	0.320	0.3225	1.0	0.3225
4	CCB/PB	500.000	0.000	0.0031	1.0	0.0031
5	LCS-LL	500.000	0.022	0.0251	1.0	0.0251
6	LCS-HL	500.000	0.440	0.4422	1.0	0.4422
7	R-44538	1111763	500.000	0.260	4.0	1.0503
8		1111764	500.000	0.230	4.0	0.9306
9		1111765	500.000	0.200	4.0	0.8108
10		CCV	500.000	0.310	1.0	0.3125
11		CCB/PB	500.000	0.000	1.0	0.0031
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						

6/25/08
 DCB

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

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 150 mLs of 1ppm LAS reference to sep. funnel + add 350 mLs DI. Analyze. Prepare fresh each run. True Value = 3.0 ppm.

C) LCS - Low Level

- Add 10 mLs of 1ppm LAS Standard to sep. funnel + add 490 mLs DI. Analyze. Prepare fresh each run. True Value = 0.02 ppm.

D) LCS - High Level

- Add 200 mLs of 1ppm LAS Standard to sep. funnel + add 300 mLs DI. Analyze. Prepare fresh each run. True Value = 0.40 ppm.

For this cal, the following solutions were used:

1ppm Standard: WC85160A

1ppm Reference: WC85160B

9/28/07 TC
 (A) LCS/MS for AUS
 To 10.0 g Ottawa Sand or Sample add
 - 1 mLs sulfide ^{working std. WCSS045D}
 - 2 mLs sulfide ^{working std. WCSS045D} for MS

(B) CCV for AUS
 use the 4 mL cal. std. from WCSS045D.

(C) CCB for AUS
 use the 0.00 Cal. Std. from WCSS045D.

10/01/07 GN
 (D) TKN Digest Reagent
 - same as WCSS040F. Exp. 1 month 11/01/07

10/1/07
 (E) (1) x 120 mL Linear Alkylbenzene Sulfonate (LAS)
 Cat. no. 4350-4 RICCA Lot # 2709230
 CAS no 7664-93-9 Store @ 4°C exp 9/08

10/1/07 RP
 (F) TSS Reference
 0.2270g Kevlar (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 # 4628571, CAS # 7681-11-0. Store @ RT.
 Expires 10/1/10.
 (I) (1) x 500 mL Phenol Liquefied, Cat # PX0511-1,
 EMD Lot # 46318, CAS # 108-95-2. Store in
 flammable cabinet. Expires 10/1/10
 (J) (1) x 500 mL Calcium Standard, 1 mL = 1 mg CaCO₃.
 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
 Expu

Received
 (C) (3) x
 Cat #
 name
 Expu

10/2/07 NM
 (D) Post-
 To a
 (WCSS040F)
 thorough
 to volume
 amber j

(E) Hypoch
 -same

(F) C.S M
 -same

10/2/07
 (H) Alkalinity
 100 mL
 with D

10/2/07 AB
 (I) FAS TR
 Same as

(J) 0.0026
 same

2/13/08 Received from VWR

BB

(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, RICOA 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 Kahlm(WC692856) brought to 1000g w/DI.
Store at 4°C in a plastic bottle.

TV=215mg/L exp: 02/14/2009

2/14/08
NM

(E) Sodium Phenolate - NH₃

-same as WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN

-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

To a tared 1 liter amber glass jar add:

- 75.0g Sodium Salicylate (WC85077B)
- 0.50g Sodium Nitroprusside (WC85102D)
- 454g UPDI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH₃

-same as WC85105 C. Exp. 1 year, 2/14/09.

(J) Buffer - NH₃

-same as WC85074B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN 1

TC To a 2

To a 2

- 268g

- 14.6g

to ~500

Slowly

Dissolve

to vol.

2/14/08
RP

(B) Rec'd 1

(1) x 100 pc

CAS# 665

Rec'd

exp. 1

KR
02/14/08

(C) TSS Ref

0.3003

with T

2/15/08 (D) Post-T

NM TO a

(WC85111)

Pour off 10

mls then

(E) Hypochl

15.0 mls

Prepare 1

2/19/08 (F) NH₃ (

NM -same as

(G) Hypochl

-same as

Run #: 162943

Analyte: ALK SM2320B ALKALINITY, TOTAL

Printed: 06/26/08 11:29

				REPORTED					DATE		
TYPE	SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
CHK1		1112414	WATER	50.0	1.0	2.00	100.0		06/25/2008		
BLK1		1112415	WATER	1.30	1.0	2.00			06/25/2008		
SPKB		1112416	WATER	20.2	1.0	2.00	101.0		06/25/2008		
ESMP	R2844538	1109708	WATER	2.90	1.0	2.00			06/25/2008		ASPB
ESMP	R2844538	1110532	WATER	250	1.0	2.00			06/25/2008		ASPB
ESMP	R2844538	1110981	WATER	2.00	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111264	WATER	94.7	1.0	2.00			06/25/2008	RUN	ASPB
LDUP		1112417	WATER	90.3	1.0	2.00		4.76	06/25/2008		
SPK1		1112418	WATER	126	1.0	2.00	93.9		06/25/2008		
ESMP	R2844538	1111265	WATER	79.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER	93.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER	90.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111763	WATER	80.7	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111764	WATER	82.0	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER	164	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844650	1112065	WATER	79.3	1.0	2.00			06/25/2008	RUN	ASPB
LDUP		1112419	WATER	80.3	1.0	2.00		1.25	06/25/2008		
SPK1		1112420	WATER	113	1.0	2.00	100.2		06/25/2008		
ESMP	R2844650	1112066	WATER	90.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.800	1.0	2.00			06/25/2008	RUN	ASPB

Records printed: 20

Run #: 162941

Analyte: BICARB SM2320B ALKALINITY, BICARBONATE

Printed: 06/26/08 11:25

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1112404	WATER	50.0	1.0	2.00	100.0		06/25/2008		
BLK1		1112405	WATER	1.30	1.0	2.00			06/25/2008		
SPKB		1112406	WATER	20.2	1.0	2.00	101.0		06/25/2008		
ESMP	R2844538	1109708	WATER	2.90	1.0	2.00			06/25/2008		ASPB
ESMP	R2844538	1110532	WATER	250	1.0	2.00			06/25/2008		ASPB
ESMP	R2844538	1110981	WATER	2.00	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111264	WATER	94.7	1.0	2.00			06/25/2008	RUN	ASPB
LDUP		1112407	WATER	90.3	1.0	2.00		4.76	06/25/2008		
ESMP	R2844538	1111265	WATER	79.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER	93.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER	90.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111763	WATER	80.7	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111764	WATER	82.0	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER	164	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844650	1112065	WATER	79.3	1.0	2.00			06/25/2008	RUN	ASPB
LDUP		1112408	WATER	80.3	1.0	2.00		1.25	06/25/2008		
ESMP	R2844650	1112066	WATER	90.3	1.0	2.00			06/25/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.800	1.0	2.00			06/25/2008	RUN	ASPB

Records printed: 18

ANALYTE:G:\STARLIMS\ASBAR.RP1

Page 1

02129

Run #: 162942

Analyte: CARBONATE SM2320B ALKALINITY, CARBONATE

Printed: 06/26/08 11:30

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1112409	WATER	50.0	1.0	2.00	100.0		06/25/2008		
BLK1		1112410	WATER	1.30	1.0	2.00			06/25/2008		
SPKB		1112411	WATER	20.2	1.0	2.00	101.0		06/25/2008		
ESMP	R2844538	1109708	WATER	2.00	U	1.0	2.00		06/25/2008		ASPB
ESMP	R2844538	1110532	WATER	2.00	U	1.0	2.00		06/25/2008		ASPB
ESMP	R2844538	1110981	WATER	2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111264	WATER	2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
LDUP		1112412	WATER	2.00	U	1.0	2.00		06/25/2008		
ESMP	R2844538	1111265	WATER	2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER	2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER	2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111763	WATER	2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111764	WATER	2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER	2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844650	1112065	WATER	2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
LDUP		1112413	WATER	2.00	U	1.0	2.00		06/25/2008		
ESMP	R2844650	1112066	WATER	2.00	U	1.0	2.00		06/25/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER	2.00	U	1.0	2.00		06/25/2008	RUN	ASPB

Records printed: 18

Analyte: Alkalinity Regular Level X
 Method: 310.1 / SM20 2320 B High Level _____

Analyst: H. Lovejoy Date: 6/25/08
 Pipette: HANS Time: 16:00

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO ₃	Carbonate Alkalinity as CaCO ₃	Bicarbonate Concentration as CaCO ₃
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 Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO₃ /L = (A_(mL acid used) × N_(H₂SO₄) × 50,000) / mL sample * Soils - 1g of sample diluted to 100mLs in DI

pH meter cal: 4.0 _____
 7.0 7.04
 10.0 _____
 Buffer Lot #: BDB2674H
 BDB2680E
 BDB2680F

Reagents: Concentration Log # Date
 H₂SO₄: 0.020 N WC85110A 11/30/08
 Reg Level Reference: 50 mg/L WC85169I
 High Level Reference: 5000 mg/L
 LCS/MS Solution: 1000 mg/L WC85143D

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	9.30	0.00	1.29					51.6		
2		ICB	100.0	5.60	0.00	0.14					1.4		
3	TV=20	LCS	100.0	9.80	0.00	2.02					20.2	2.0	
4	R-42262	R1076274	10.0	6.80	0.00	2.23					223.0		
5	DUP	R1076274	10.0	6.80	0.00	2.22					222.0		
6	SPK TV=100	R1076274	10.0	7.30	0.00	3.18					318.0	1.0	
7		R1076280	10.0	7.60	0.00	3.01					301.0		
8		R1076282	10.0	7.60	0.00	2.78					278.0		
9	R-44321	R1106792	10.0	7.70	0.00	5.28					528.0		
10		R1106829	10.0	7.70	0.00	5.24					524.0		
11	R-44175	R1105198	10.0	7.30	0.00	5.90					590.0		
12		R1105199	10.0	7.50	0.00	4.19					419.0		
13		R1105200	10.0	7.90	0.00	3.31					331.0		
14		R1105201	5.0	7.20	0.00	3.29					658.0		
15	R-44557	R1109952	25.0	8.50	0.00	3.38					135.2		
16	TV=50	CCV	25.0	9.20	0.00	1.28					51.2		
16		CCB	100.0	5.60	0.00	0.13					1.3		
17		R1109953	25.0	8.40	0.00	2.98					119.2		
18		R1109954	50.0	8.00	0.00	2.59					51.8		
19		R1109955	25.0	8.00	0.00	5.41					216.4		
20	DUP	R1109955	25.0	8.00	0.00	5.30					212.0		
21	SPK TV=80	R1109955	25.0	9.10	0.00	7.38					295.2	2.0	
22		R1110018	100.0	7.00	0.00	LL					0.0		
23		R1110019	100.0	7.10	0.00	LL					0.0		
24		R1110020	35.0	7.90	0.00	2.63					75.1		
25		R1110021	100.0	6.80	0.00	LL					0.0		
26	R-44173	R1105193	10.0	7.90	0.00	5.32					532.0		
27		R1100805	15.0	7.80	0.00	2.51					167.3		
28	TV=50	CCV	25.0	9.30	0.00	1.25					50.0		
29		CCB	100.0	5.70	0.00	0.13					1.3		
30	TV=20	LCS	100.0	9.80	0.00	2.02					20.2	2.0	
31	R-44538	R1109708	100.0	5.70	0.00	0.29	0.00	0.00	0.00	2.9	2.9		
32		R1110532	10.0	7.80	0.00	2.50	0.00	0.00	0.00	250.0	250.0		
33		R1110981	100.0	3.60	0.00	0.00	0.00	0.00	0.00	0.0	0.0		
34		R1111264	30.0	7.50	0.00	2.84	0.00	0.00	0.00	94.7	94.7		
35	DUP	R1111264	30.0	7.50	0.00	2.71	0.00	0.00	0.00	90.3	90.3		
36	SPK TV=33.33	R1111264	30.0	8.20	0.00	3.78	0.00	0.00	0.00	126.0	126.0	1.0	
37		R1111265	30.0	7.60	0.00	2.38	0.00	0.00	0.00	79.3	79.3		

Analyte: Alkalinity Regular Level X
 Method: 310.1 / SM20 2320 B High Level _____

Analyst: H. Lovejoy Date: 6/25/08
 Pipette: HANS Time: 16:00

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO ₃	Carbonate Alkalinity as CaCO ₃	Bicarbonate Concentration as CaCO ₃
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 Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO₃ /L = (A_(mL acid used) × N_(H₂SO₄) × 50,000) / mL sam_f * Soils - 1g of sample diluted to 100mLs in Di

pH meter cal:
 4.0 _____
 7.0 7.04
 10.0 _____

Buffer Lot #:
 BDB2674H
 BDB2680E
 BDB2680F

Reagents: Concentration Log # Date
 H₂SO₄: 0.020 N WC85110A 11/30/08
 Reg Level Reference: 50 mg/L WC85169I
 High Level Reference: 5000 mg/L
 LCS/MS Solution: 1000 mg/L WC85143D

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)
38	R1111266	30.0	7.60	0.00	2.80	0.00	0.0	0.0	0.0	93.3	93.3		
39	R1111267	30.0	7.60	0.00	2.71	0.00	0.0	0.0	0.0	90.3	90.3		
40	R1111763	30.0	7.60	0.00	2.42	0.00	0.0	0.0	0.0	80.7	80.7		
41	R1111764	30.0	7.50	0.00	2.46	0.00	0.0	0.0	0.0	82.0	82.0		
42	R1111765	30.0	7.60	0.00	4.92	0.00	0.0	0.0	0.0	164.0	164.0		
43	TV=50 CCV	25.0	9.40	0.00	1.29						51.6		
44	CCB	100.0	5.80	0.00	0.14						1.4		
45	R-44650 R1112065	30.0	7.60	0.00	2.38	0.00	0.0	0.0	0.0	79.3	79.3		
46	DUP R1112065	30.0	7.60	0.00	2.41	0.00	0.0	0.0	0.0	80.3	80.3		
47	SPK TV=33.33 R1112065	30.0	8.40	0.00	3.38	0.00	0.0	0.0	0.0	112.7	112.7		
48	R1112066	30.0	7.70	0.00	2.71	0.00	0.0	0.0	0.0	90.3	90.3		
49	R1112067	100.0	6.10	0.00	0.38	0.00	0.0	0.0	0.0	3.8	3.8	low level	
50	TV=50 CCV	25.0	9.30	0.00	1.23						49.2		
51	CCB	100.0	5.90	0.00	0.16						1.6		

Analyte: Alkalinity Low Level
 Method: 310.1 / SM20 2320 B

Analyst: H. Lovejoy Date: 6/25/08
 Pipette: FRANZ Time: 16:00

pH meter cal: 4.0 Buffer Lot #: BDB2674H Reagent: H2SO4
7.0 7.04 BDB2680E Concentration: 0.02 N Log #: WC85110A Date: 11/30/08
10.0 BDB2680F

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	R-44557	R1110018	100.0	7.00	0.00	0.91	4.48	1.14	4.19	6.80
2		R1110019	100.0	7.10	0.00	1.07	4.48	1.31	4.19	8.30
3		R1110021	100.0	6.80	0.00	0.68	4.47	0.92	4.16	4.40
4	R-44538	R1109708	100.0	5.70	0.00	0.29	4.48	0.54	4.2	0.40
5	R-44650	R1112067	100.0	6.10	0.00	0.39	4.48	0.7	4.18	0.80

- 2/13/08 BB Received from Vair
- (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# H350-4, RICOA 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 Naolin (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 WC85088 F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN
-same as WC85090 I. Exp. 3/14/08.

(G) Buffer - TKN
-same as WC85088 E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN
To a tared 1 liter amber glass jar add:
- 75.0g Sodium Salicylate (WC85099B)
- 0.50g Sodium Nitroprusside (WC85103D)
- 454g DI.
Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH3
-same as WC85105 C. Exp. 1 year, 2/14/09.

(J) Buffer - NH3
-same as WC85094 B. Exp. 1 year, 2/14/09

2/14/08 (A) TKN
IC To a 2
- 268g
- 14.6g
to ~500
Slowly
Dissolve
to vol.

2/14/08 RP (B) Prec'd.
(1) x 100 p
CAS # 68
Prec'd
exp.

KR 02/14/08 (C) TSS Ref
0.300g
with

2/15/08 NM (D) Post-
TO a
(WC85111
Pour off 10
mix then

(E) Hypoch
15.0 mL
Prepare

2/19/08 NM (F) NH3
-same as

(G) Hypoch
-same as

4/24/08 (A) TSS Reference
 0.2118g Xanthin (WC 85109) brought to 1000g w.
 DI Stone @ 4°C in a plastic bottle.
 TV = 212 mg/L exp: 4/24/09

4/24/08 (B) Buffer - TKN
 NM - same as WC 85088 E. Exp. 1 month, 5/24/08

↓
(C) Sodium Phenolate - NH3
 - same as WC 85131 D. Exp. 1 year, 4/24/09.

4/28/08 (D) Alkalinity LOS/MS Salin. 1666 mg/L
 P.B. Procedure 1.6589g Na₂CO₃ (WC 76232 D), previously
 dried @ 104°C for 2 hours, in ~800 mL DI. Bring
 to 1 L volumetrically w/DI. Store in plastic
 @ 4°C. Expires 10/28/08.

4/28/08 Received from CPT
 JS (E) (3) x 100 COD Digestion Solution Vials, 0-150 ppm,
 Cat # 4380-150-300, CPT Lot # 71127A, CAS #s
 10294-26-5, 7783-35-9, 7664-93-9,
 Store in a cool, dark place. Expires 11/2011

Received from VWL
(F) (10) x 8 mL Aquadur Water Std, 0.1%, Cat #
 1.88051.0010, EMS Lot # HC 784277, 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. of flask add ~500 mL WPI and
 - 268g K₂SO₄ (WC 85109 H)
 - 14.6g CuSO₄ (WC 85040 A)
 Slowly add 268 g conc. omnitrace H₂SO₄ (WC 85132 D)
 Dissolve. Allow to cool, then bring to vol. w/ WPI
 Exp 1 month, 5/28/08.

4/29/08 (H) Hypochlorite - TKN
 N.N - same as WC 85111 E. Prepare fresh each run.

20mLs
 (equals 400mLs)

6/24/08 (A) Ascorbic Acid - TPC4
 Nm - same as WC85104I. Exp. 1wk, 7/1/08

6/24/08 (B) TSS Reference
 EW 0.2121g 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 Received from VWR
 AB (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 (D) Received from Honeywell
 Cmw (D) (4) x 4L Chloroform, CAT# 048-4, Honeywell
 Lot # CW014. CAS# 67-66-3. Store @ RT.
 Expires 5 years from receipt, 6/25/2013.
 (E) (4) x 4L Chloroform, CAT# 048-4, Honeywell
 Lot # CW310. CAS# 67-66-3. Store @ RT.
 Expires 5 years from receipt, 6/25/2013.

6/25/08 (F) Buffer - TOTN
 Nm - same as WC85146A. Exp. 1 year, 6/25/09.

↓ (G) Color Reagent - TOTN
 - same as WC85123A. Exp. 1 month, 7/25/08.

6/25/08 Received from VWR
 AB (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 (I) Alkalinity Reference SS'n 50mg/L
 Cmw 10.0 ml 5000 mg/L Alk Ref. Stock (WC85157H) to 1 L vol. with DI.
 Store in plastic at 4°C exp ~~to~~ months 12/2/08

Run #: 162663

Analyte: TOTAL CN 9012.TOT TOTAL CYANIDE BY SW-846 9012A

Printed: 06/20/08 16:31

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1111201	WATER	0.662	1.0	0.0100	94.5		06/20/2008		
BLK1		1111202	WATER	0.0100	U	1.0	0.0100		06/20/2008		
SPKB		1111203	WATER	0.101		1.0	0.0100	101.2	06/20/2008		
BLK2		1111212	WATER	0.0100	U	1.0	0.0100		06/20/2008		
SPKB		1111204	WATER	0.411		1.0	0.0100	102.7	06/20/2008		
ESMP	R2844173	1105187	WATER	0.0100	U	1.0	0.0100		06/20/2008	QC	2
LDUP		1111205	WATER	0.0100	U	1.0	0.0100		06/20/2008		
SPK1		1111206	WATER	0.102		1.0	0.0100	101.7	06/20/2008		
ESMP	R2844173	1105188	WATER	0.0100	U	1.0	0.0100		06/20/2008		2
ESMP	R2844173	1105189	WATER	0.0100	U	1.0	0.0100		06/20/2008		2
ESMP	R2844173	1105190	WATER	0.0100	U	1.0	0.0100		06/20/2008		2
ESMP	R2844173	1105191	WATER	0.0100	U	1.0	0.0100		06/20/2008		2
ESMP	R2844173	1105192	WATER	0.0100	U	1.0	0.0100		06/20/2008		2
ESMP	R2844321	1106785	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
ESMP	R2844321	1106789	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
ESMP	R2844321	1106792	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
ESMP	R2844321	1106829	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
ESMP	R2844538	1109708	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
ESMP	R2844175	1105198	WATER	0.0100	U	1.0	0.0100		06/20/2008		2
ESMP	R2844175	1105199	WATER	0.0100	U	1.0	0.0100		06/20/2008		2
ESMP	R2844175	1105200	WATER	0.0100	U	1.0	0.0100		06/20/2008		2
ESMP	R2844175	1105201	WATER	0.0100	U	1.0	0.0100		06/20/2008		2
ESMP	R2844321	1106776	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
ESMP	R2844321	1106777	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
SPKB		1111209	WATER	0.0936		1.0	0.0100	93.6	06/20/2008		
SPKB		1111210	WATER	0.392		1.0	0.0100	98.1	06/20/2008		
BLK2		1111211	WATER	0.0100	U	1.0	0.0100		06/20/2008		
ESMP	R2844321	1106778	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
LDUP		1111207	WATER	0.0100	U	1.0	0.0100		06/20/2008		
SPK1		1111208	WATER	0.0934		1.0	0.0100	93.4	06/20/2008		
ESMP	R2844321	1106780	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
ESMP	R2844321	1106781	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
ESMP	R2844321	1106782	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
ESMP	R2844321	1106784	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
ESMP	R2844321	1106787	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB
ESMP	R2844321	1106788	WATER	0.0100	U	1.0	0.0100		06/20/2008		ASPB

Records printed: 36

ANALYTE:G:\STARLIMS\ASBAR.RP1

Page 2

02138

Midi-Cyanide Distillation Sheet

Stock ppm: 478 482

Analyst: _____ RP

Date Std'n: 6/19/08

Date: 6/19/08

10 ppm Spike Solution:

Chiller Temp: 15°C

Date made: 6/19/08

Midi Block #1 Temp: 125°C

mL used: 1.022

Midi Block #2 Temp: 125°C

Pipette ID: 201

1

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1	Prep Blk	water		50	50	335.4/9012	NA	NA	
2	LCS-LL	water		50	50	335.4/9012	NA	NA	0.5 mL of 10 ppm
3	LCS-HL	water		50	50	335.4/9012	NA	NA	2.0 mL of 10 ppm
4		R42952	R1084689	50	50	335.4	7.12	—	
5			689 DUP	50	50	335.4		—	
6			689 SPK	50	50	335.4		—	0.5 mL of 10 ppm
7		R43255	R1090412	50	50	335.4		—	
8		R43624	R1096083	50	50	335.4		—	
9		R44173	R1105188	50	50	9012		—	
10			R1105189	50	50	9012		—	
11			R1105190	50	50	9012		—	
12			R1105191	50	50	9012		—	
13			R1105192	50	50	9012		—	
14		R44321	R1106785	50	50	9012		—	
15			R1106789	50	50	9012		—	
16			R1106792	50	50	9012		—	
17			R1106829	50	50	9012		—	
18		R44173	R1105187	50	50	9012		—	
19			187 DUP	50	50	9012		—	
20			187 SPK	50	50	9012		—	0.5 mL of 10 ppm

Midi-Cyanide Distillation Sheet

Analyst: _____
 Date: _____
 Chiller Temp: _____
 Midi Block #1 Temp: _____
 Midi Block #2 Temp: _____

Stock ppm: _____
 Date Std'n: _____
 10 ppm Spike Solution: _____
 Date made: _____
 mL used: _____
 Pipette ID: _____

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1		R44538	R1109708	50	50	9012	7.12		
2		R44175	R1105198	50	50	9012			
3			R1105199	50	50	9012			
4			R1105200	50	50	9012			
5			R1105201	50	50	9012			
6		R44321	R1106776	50	50	9012			
7			R1106777	50	50	9012			
8	Prep Bk	water		50	50	9012	NA		
9	LCS-LL	water		50	50	9012	NA		
10	LCS-HL	water		50	50	9012	NA		
11			R1106778	50	50	9012	7.12		
12			778 DUP	50	50	9012			
13			778 SPK	50	50	9012			0.5 mL spike 10 ppm
14			R1106780	50	50	9012			
15			R1106781	50	50	9012			
16			R1106782	50	50	9012			
17			R1106784	50	50	9012			
18			R1106787	50	50	9012			
19			R1106788	50	50	9012			
20					50				

RF 6/19/08

Cyanide Reactivity Distillation Sheet

Analyst: CW/BN

Date: 6/17/08

Pipet ID: 79

LCS/MS Stock Prep: WC 87001E

LCS/MS Stock Std'n: WC 87001A Stock Concentration, mg/L: 478.932

Still #	Submission #	Order #	Dist. Wgt. (g)	Final Vol.	Comments	
1		PB	10.00	250		25
2		LCS	10.00	250	10.00 x 478.932 mg/L = 4789.32	25
3	R 44338	R 1107133	10.64	250		23.496
4		R 1109140	10.40	250		24.038
5		140 DOP	10.00	250		24.78
6		140 SPK	10.77	250	10.77 x 478.932 mg/L = 5158.42	23.21
7		R 1109141	10.20	250		24.51
8		R 1109142	10.58	250		23.63
9		R 1109143	10.33	250		23.74
10		R 1109144	10.20	250		24.51
11				250		
12				250		
13	BN 61003			250		
14				250		
15				250		
16				250		
17				250		
18				250		
19				250		
20				250		

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200
 Analyst: *[Signature]*

20.06.2008 10:46

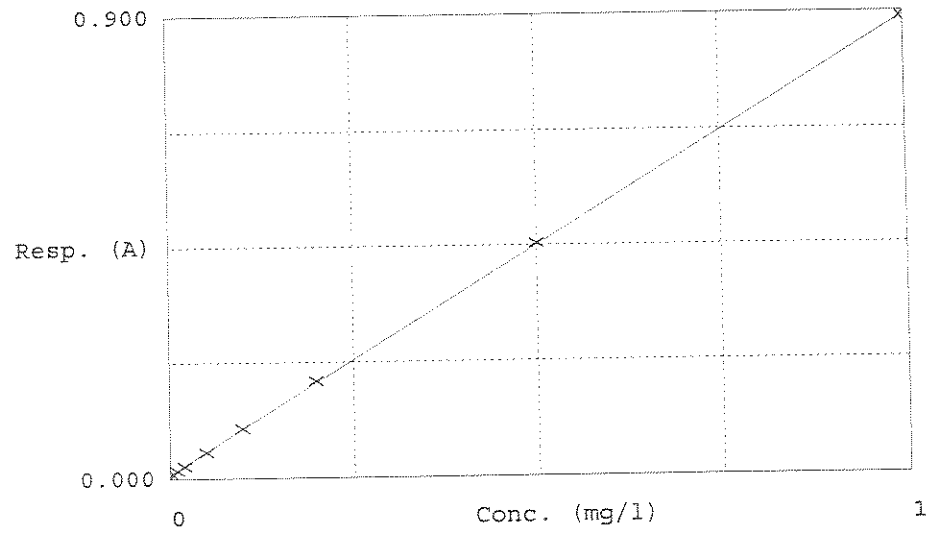
Test Total CN

Accepted 20.06.2008 10:42

Factor 1.13017
 Bias 0.00785

Coeff. of det. 0.999945

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.00644	-0.00159	0.00000	
2	CN-0.01	0.01511	0.00820	0.01000	
3	CN-0.02	0.02416	0.01844	0.02000	
4	CN-0.05	0.05104	0.04881	0.05000	
5	CN-0.1	0.09740	0.10120	0.10000	
6	CN-0.2	0.18817	0.20379	0.20000	
7	CN-0.5	0.45368	0.50386	0.50000	
8	CN-1	0.89029	0.99730	1.00000	
9	1 ICV-TCN(contr	0.59340	0.66177	0.70000	
10	2 ICB-TCN(contr	0.00699	-0.00098	0.00000	

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst:

Date : 2008-06-20
Time : 12.39

Test Unit	Resp.	Result	Man.dilut Dilut	Date and Time
1 ICV-TCN	0.593	0.66177		2008-06-20 10.39
2 ICB-TCN	0.007	-0.00098		2008-06-20 10.39
3 CCV-TCN	0.586	0.65359		2008-06-20 11.04
4 CCB-TCN	0.006	-0.00198		2008-06-20 11.04
PB 1	0.006	-0.00234		2008-06-20 11.04
LCS-LL 1	0.097	0.10115		2008-06-20 11.04
LCS-HL 1	0.371	0.41077		2008-06-20 11.04
R1084689	0.013	0.00538		2008-06-20 11.04
689 DUP	0.013	0.00553		2008-06-20 11.04
689 SPK	0.101	0.10531		2008-06-20 11.04
R1090412	0.006	-0.00199		2008-06-20 11.04
R1096083	0.011	0.00329		2008-06-20 11.04
R1105188	0.006	-0.00218		2008-06-20 11.04
R1105189	0.007	-0.00147		2008-06-20 11.11
3 CCV-TCN	0.578	0.64403		2008-06-20 11.11
4 CCB-TCN	0.006	-0.00175		2008-06-20 11.11
R1105190	0.006	-0.00248		2008-06-20 11.11
R1105191	0.006	-0.00242		2008-06-20 11.11
R1105192	0.006	-0.00240		2008-06-20 11.11
R1106785	0.006	-0.00246		2008-06-20 11.11
R1106789	0.006	-0.00221		2008-06-20 11.11
R1106792	0.006	-0.00259		2008-06-20 11.11
R1106829	0.006	-0.00235		2008-06-20 11.11
R1105187	0.006	-0.00249		2008-06-20 11.11
187 DUP	0.006	-0.00216		2008-06-20 11.19
187 SPK	0.098	0.10168		2008-06-20 11.19
3 CCV-TCN	0.572	0.63710		2008-06-20 11.19
4 CCB-TCN	0.006	-0.00180		2008-06-20 11.19
R1109708	0.006	-0.00205		2008-06-20 11.19
R1105198	0.006	-0.00209		2008-06-20 11.19
R1105199	0.006	-0.00230		2008-06-20 11.19
R1105200	0.006	-0.00232		2008-06-20 11.19
R1105201	0.006	-0.00248		2008-06-20 11.19
R1106776	0.006	-0.00222		2008-06-20 11.19
R1106777	0.006	-0.00255		2008-06-20 11.19
PB 2	0.006	-0.00161		2008-06-20 11.26
LCS-LL 2	0.091	0.09357		2008-06-20 11.26
LCS-HL 2	0.355	0.39244		2008-06-20 11.26
3 CCV-TCN	0.559	0.62316	89.00% 2447 to 9512	2008-06-20 11.26
4 CCB-TCN	0.007	-0.00141		2008-06-20 11.26
R1106778	0.006	-0.00231		2008-06-20 11.26
778 DUP	0.006	-0.00200		2008-06-20 11.26
778 SPK	0.090	0.09336		2008-06-20 11.26
R1106780	0.007	-0.00142		2008-06-20 11.26
R1106781	0.006	-0.00192		2008-06-20 11.26
R1106782	0.006	-0.00164		2008-06-20 11.26
R1106784	0.006	-0.00210		2008-06-20 11.34
R1106787	0.006	-0.00192		2008-06-20 11.34
R1106788	0.006	-0.00204		2008-06-20 11.34
PB RCN	0.007	-0.00149	* EF = 11	2008-06-20 11.34
3 CCV-TCN	0.593	0.66140		2008-06-20 11.34

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst:

Date : 2008-06-20
Time : 12.39

Test
Unit

Total CN
mg/l

Sample ID:	Resp.	Result	Man.dilut Dilut	Date and Time
4 CCB-TCN	0.006	-0.00199		2008-06-20 11.34
LCS RCN	0.109	0.11482	<i>*25 = 2.8705</i>	2008-06-20 11.34
R1107133	0.006	-0.00244	<i>*23.446 = 20</i>	2008-06-20 11.34
R1109140	0.011	0.00386	<i>*24.032 = 20</i>	2008-06-20 11.34
140 DUP	0.006	-0.00162		2008-06-20 11.34
140 SPK	0.006	-0.00174	<i>- see report of 140 SPK</i>	2008-06-20 11.34
R1109141	0.024	0.01771	<i>- see report of 140 SPK</i>	2008-06-20 11.38
R1109142	0.009	0.00135		2008-06-20 11.38
R1109143	0.006	-0.00243		2008-06-20 11.38
R1109144	0.006	-0.00226		2008-06-20 11.38
3 CCV-TCN	0.633	0.70694		2008-06-20 11.40
4 CCB-TCN	0.005	-0.00266		2008-06-20 11.40
3 CCV-TCN	0.629	0.70173		2008-06-20 12.33
4 CCB-TCN	0.006	-0.00263		2008-06-20 12.33
140 SPK RPT	0.023	0.01678	<i>* 25.21 = 0.3895</i>	2008-06-20 12.33
R1109141 RPT	0.005	-0.00330		2008-06-20 12.33
3 CCV-TCN	0.655	0.73092		2008-06-20 12.35
4 CCB-TCN	0.006	-0.00220		2008-06-20 12.35

Columbia Analytical Services
 1 Mustard Street, Rochester, NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: CW/EN

Date: 8/17/08

Analysis: EPA SW846 Cyanide Reactivity Distillation

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs or g)	True Value
a) LCS/MS Stock Preparation:	WC85007E	7/20/07				
b) LCS/MS Stock Stdz'n:	WC87007A	1/18/08				
c) LCS Prep:			0.5	978.432	10	48.92
d) Mtx Spike Prep:			0.5	See Data Sheet		

Instrument log filled in? (Y) (N)

Packages: Copy and attach Standards Preparation

Comments:

Production:

	Start Time	End Time
Preparation Time :		
Analytical Time:		
Finish Time:		

of Samples (including Mtx QC): _____
 Repeats due to Sample: _____
 Repeats due to Error: _____

Analyst: RF

Distillation Date: 8/19/08

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		
Sulfuric Acid, 1:1		
Magnesium Chloride		
Calcium Hypochlorite	NA	
Ascorbic Acid	NA	
Acetate Buffer	NA	
Zinc Acetate	NA	
Acetic Acid	NA	
Cadmium Carbonate	WC76081J	
Anti-foam	NA	

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) 0.25N 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 100 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) 1CV/CCV TV=0.70 Fresh per run

0.70 mls 10ppm TCN Ref. Stock (WC85134C) + 9.30 mls
0.25N NaOH (WC85134A)

(F)

8/2/04 TCN Distillation

cmw

Ⓐ 0.25N NaOH

• 40.0mLs NaOH (WC69074F, EMLot # 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 10ppm 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=50ppm

Ⓕ 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.
- 0.10
- 0.0
- 0.0
- 0.0
- 0.0

Ⓑ CC

• Add
to 9,
10 cc

8/3/04
CB

Ⓒ TDS &
DI H₂O
bottle

0.9120g

8/3/04
GN

Ⓓ Point
same

8/3/04
cmw

Ⓔ 10%
same

8/3/04
cmw

Ⓕ Phenc
same

8/3/04
JST

Ⓖ Point &
same

8/4/04
DK

Ⓗ Total
400.00
DI
glas

76765C).
PDI.
8/19/07

) diluted
& fresh

mand + cl. Residual
(WC76286E) 0.1N
pines 2 weeks 8/3/07.

nd
in 1L w/ DI

mand
(WC76285F) to
un and standardize

m 100 mL

tion.
Store @ 4°C.

K98135D.11
pines 7/1/08

7/20/07 Received from VWB

- (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 Ferric 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, 7446-69-5. Store in flammable cabinet. Expires 7/20/10
- (D) (1) x 500mL Silver Nitrate, 0.0192N, Cat # ^{LC22630-1} 7158-18, Lab Chem Lot # 7158-18, CAS # 7761-88-8. Store @ 4°C. Expires 6/13/08

7/20/07 BB

(E) 1000ppm TAN Stock #1: Standard Stock

To a tared 500mL volumetric flask, add:

- 1.26g KEN (WC76005C)
- 1.00g KOH (WC76005D)
- ~ 400 mL DI

Dissolve and bring to volume w/ DI. Standardize and store @ 4°C in amber glass. Expires 7/20/08.

(F) 1000ppm TAN Stock #2: Reference Stock

To a tared 500mL volumetric flask, add:

- 1.26g KEN (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) Rhodamine Indicator Sol'n

Dissolve 0.020g 5-(4-DMAB) Rhodamine (WC76015E) in 100mL Acetone (WC76000F). Store in glass @ R.T. Expires 7/20/08

Run #: 162873

Analyte: TOTAL CN 9012.TOT TOTAL CYANIDE BY SW-846 9012A

Printed: 06/27/08 14:22

R44321
R44538
2 copies

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	POL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1113120	WATER	0.686	1.0	0.0100	98.1		06/27/2008		
BLK1		1113121	WATER	0.0100	U	1.0	0.0100		06/27/2008		
BLK2		1113122	WATER	0.0100	U	1.0	0.0100		06/27/2008		
SPKB		1113123	WATER	0.101		1.0	0.0100	100.6	06/27/2008		
SPKB		1113124	WATER	0.411		1.0	0.0100	102.7	06/27/2008		
ESMP	R2844173	1105193	WATER	0.0100	U	1.0	0.0100		06/27/2008		2
LDUP		1113140	WATER	0.0100	U	1.0	0.0100		06/27/2008		
SPK1		1113141	WATER	0.104		1.0	0.0100	104.2	06/27/2008		
ESMP	R2844174	1105195	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844174	1105196	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105202	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105203	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105204	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105205	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105206	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105207	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105208	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105209	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105210	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105211	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105212	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105213	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105214	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844175	1105215	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844321	1106779	WATER	0.0100	U	1.0	0.0100		06/27/2008		ASPB
ESMP	R2844321	1106783	WATER	0.0100	U	1.0	0.0100		06/27/2008		ASPB
ESMP	R2844321	1106786	WATER	0.0100	U	1.0	0.0100		06/27/2008		ASPB
LDUP		1113125	WATER	0.0100	U	1.0	0.0100		06/27/2008		
SPK1		1113126	WATER	0.0962		1.0	0.0100	96.2	06/27/2008		
SPKB		1113127	WATER	0.0944		1.0	0.0100	94.4	06/27/2008		
SPKB		1113128	WATER	0.392		1.0	0.0100	98.1	06/27/2008		
ESMP	R2844321	1106790	WATER	0.0100	U	1.0	0.0100		06/27/2008		ASPB
ESMP	R2844321	1106791	WATER	0.0100	U	1.0	0.0100		06/27/2008		ASPB
ESMP	R2844173	1108805	WATER	0.0100	U	1.0	0.0100		06/27/2008		2
ESMP	R2844538	1110532	WATER	0.0100	U	1.0	0.0100		06/27/2008		ASPB
ESMP	R2844175	1110710	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	2
ESMP	R2844321	1106830	WATER	0.0100	U	1.0	0.0100		06/27/2008		ASPB
LDUP		1113129	WATER	0.0100	U	1.0	0.0100		06/27/2008		
SPK1		1113130	WATER	0.107		1.0	0.0100	106.8	06/27/2008		
ESMP	R2844538	1110981	WATER	0.0100	U	1.0	0.0100		06/27/2008	RUN	ASPB

Records printed: 40

Reviewed & Approved

By: Chubu

Date: 6/30/08

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200
 Analyst: *GNITT*

27.06.2008 14:40

Test Total CN *335.4/9012*

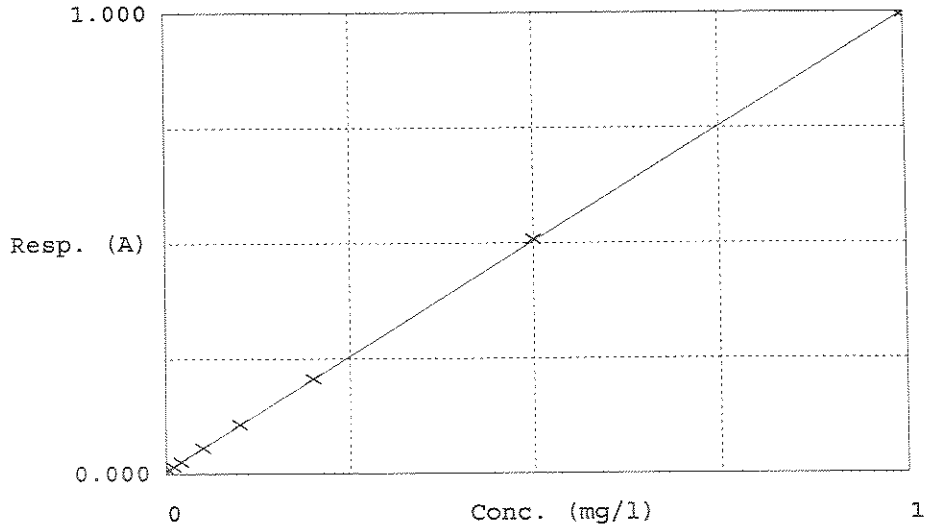
*Pipets used: 14
 1 pipette*

Accepted 27.06.2008 11:14

Factor 1.00708
 Bias 0.00711

Coeff. of det. 0.999959

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.00630	-0.00081	0.00000	
2	CN-0.01	0.01555	0.00850	0.01000	
3	CN-0.02	0.02599	0.01901	0.02000	
4	CN-0.05	0.05619	0.04943	0.05000	
5	CN-0.1	0.10706	0.10066	0.10000	
6	CN-0.2	0.20672	0.20103	0.20000	
7	CN-0.5	0.50833	0.50477	0.50000	
8	CN-1	0.99750	0.99741	1.00000	
9	1 ICV-TCN(contr	0.68868	0.68640	0.70000	
10	2 ICB-TCN(contr	0.00721	0.00010	0.00000	

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200 *CN*
 Analyst:

Date : 2008-06-27
 Time : 12.09

Test Total CN *335.4/9012*
 Unit mg/l

Sample ID:	Resp.	Result	Man.dilut Dilut	Date and Time
1 ICV-TCN	0.689	0.68640		2008-06-27 11.13
2 ICB-TCN	0.007	0.00010		2008-06-27 11.13
3 CCV-TCN	0.695	0.69316		2008-06-27 11.37
4 CCB-TCN	0.006	-0.00119		2008-06-27 11.37
PB 1	0.006	-0.00148		2008-06-27 11.37
LCS-LL 1	0.107	0.10061		2008-06-27 11.37
LCS-HL 1	0.415	0.41068		2008-06-27 11.37
R1105193	0.006	-0.00124		2008-06-27 11.37
R1105193 DUP	0.006	-0.00133		2008-06-27 11.37
R1105193 SPK	0.111	0.10419		2008-06-27 11.37
R1105195	0.006	-0.00136		2008-06-27 11.37
R1105196	0.006	-0.00130		2008-06-27 11.37
R1105202	0.006	-0.00161		2008-06-27 11.37
R1105203	0.007	-0.00043		2008-06-27 11.44
3 CCV-TCN	0.691	0.68885		2008-06-27 11.44
4 CCB-TCN	0.006	-0.00097		2008-06-27 11.44
R1105204	0.006	-0.00077		2008-06-27 11.44
R1105205	0.006	-0.00098		2008-06-27 11.44
R1105206	0.006	-0.00157		2008-06-27 11.44
R1105207	0.006	-0.00158		2008-06-27 11.44
R1105208	0.012	0.00456		2008-06-27 11.44
R1105209	0.005	-0.00169		2008-06-27 11.44
<i>43068</i> R1105210 R1105210	0.005	-0.00167		2008-06-27 11.44
R1105211	0.005	-0.00165		2008-06-27 11.44
R1105212	0.005	-0.00172		2008-06-27 11.52
R1105213	0.007	-0.00051		2008-06-27 11.52
3 CCV-TCN	0.680	0.67773		2008-06-27 11.52
4 CCB-TCN	0.006	-0.00117		2008-06-27 11.52
R1105214	0.006	-0.00154		2008-06-27 11.52
R1105215	0.005	-0.00165		2008-06-27 11.52
R1106779	0.006	-0.00152		2008-06-27 11.52
R1106783	0.005	-0.00181		2008-06-27 11.52
R1106786	0.005	-0.00170		2008-06-27 11.52
R1106786 DUP	0.006	-0.00151		2008-06-27 11.52
R1106786 SPK	0.103	0.09621		2008-06-27 11.52
PB 2	0.006	-0.00141		2008-06-27 11.59
LCS-LL 2	0.101	0.09440		2008-06-27 11.59
LCS-HL 2	0.397	0.39253		2008-06-27 11.59
3 CCV-TCN	0.690	0.68724		2008-06-27 11.59
4 CCB-TCN	0.006	-0.00118		2008-06-27 11.59
R1106790	0.006	-0.00103		2008-06-27 11.59
R1106791	0.005	-0.00169		2008-06-27 11.59
R1108805	0.006	-0.00128		2008-06-27 11.59
R1110532	0.004	-0.00288		2008-06-27 11.59
R1110710	0.006	-0.00124		2008-06-27 11.59
R1106830	0.010	0.00280		2008-06-27 11.59
R1106830 DUP	0.009	0.00221		2008-06-27 12.03
R1106830 SPK	0.113	0.10683		2008-06-27 12.03
R1110981	0.006	-0.00082		2008-06-27 12.03
R1111678	0.005	-0.00169		2008-06-27 12.03
3 CCV-TCN	0.725	0.72340		2008-06-27 12.06

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst: *GN*

Date : 2008-06-27
Time : 12.09

Test Total CN *3354/9012*
Unit mg/l

Sample ID:	Resp.	Result	Man.dilut	Dilut	Date and Time
4 CCB-TCN	0.005	-0.00184			2008-06-27 12.06

Midi-Cyanide Distillation Sheet

Analyst: RP

Date: 6/25/08

Chiller Temp: 9°C

Midi Block #1 Temp: 125°C

Midi Block #2 Temp: 125°C

Stock ppm: 978.432

Date Std'n: 1/18/08

10 ppm Spike Solution:

Date made: 6/25/08

mL used: 1.022

Pipette ID: Wonder Woman

1

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1	Prep Blk	water		50	50	335.4/9012	>12	—	
2	LCS-LL	water		50	50	335.4/9012		—	0.5mLs v/b 10ppm
3	LCS-HL	water		50	50	335.4/9012		—	2.0mLs v/b 10ppm
4		R44173	R1105193	50	50	9012		—	
5			193 DUP	50	50	9012		—	
6			193 SPK	50	50	9012		—	0.5mLs v/b 10ppm
7		R44174	R1105195	50	50	9012		—	
8			R1105196	50	50	9012		—	
9		R44175	R1105202	50	50	9012		—	
10			R1105203	50	50	9012		—	
11			R1105204	50	50	9012		—	
12			R1105205	50	50	9012		—	
13			R1105206	50	50	9012		—	
14			R1105207	50	50	9012		—	
15			R1105208	50	50	9012		—	
16			R1105209	50	50	9012		—	
17			R1105210	50	50	9012		—	
18			R1105211	50	50	9012		—	
19			R1105212	50	50	9012		—	
20			R1105213	50	50	9012	✓	—	

Midi-Cyanide Distillation Sheet

Analyst: RP

Date: 6/23/08

Chiller Temp: _____

Midi Block #1 Temp: _____

Midi Block #2 Temp: _____

Stock ppm: _____

Date Std'n: _____

10 ppm Spike Solution: _____

Date made: _____

mL used: _____

Pipette ID: _____

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1			R1105214	50	50	9012	7.12	—	
2			R1105215	50	50	9012		—	
3		R44321	R1106779	50	50	9012		—	
4			R1106783	50	50	9012		—	
5			R1106786	50	50	9012		—	
6			786 DUP	50	50	9012		—	
7			786 SPK	50	50	9012		—	0.5mls of 10ppm
8	Prep Blk	water		50	50	335.4 / 9012		—	
9	LCS-LL	water		50	50	335.4 / 9012		—	0.5mls of 10ppm
10	LCS-HL	water		50	50	335.4 / 9012		—	2.0mls of 10ppm
11			R1106790	50	50	9012		—	
12			R1106791	50	50	9012		—	
13		R44173	R1108805	50	50	9012		—	
14		R44538	R1110532	50	50	9012		—	
15		R44175	R1110710	50	50	9012		—	
16		R44321	R1106830	50	50	9012		—	
17			830 DUP	50	50	9012		—	
18			830 SPK	50	50	9012		—	0.5mls of 10ppm
19		R44538	R1110981	50	50	9012	5	—	
20		R44632	R1111678	50	50	335.4 / 9012	7.12	—	

RP
6/23/08

Analyst: GN/RP

Distillation Date: 6/27/08

Analysis: Total Cyanide Instrument: AquaKem 200

Analyzer Date: 6/27/08

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	WC85133H	
Sulfuric Acid, 1:1	WC85153I	
Magnesium Chloride	WC85133C	
Calcium Hypochlorite	NA	
Ascorbic Acid	NA	
Acetate Buffer	NA	
Zinc Acetate	NA	
Acetic Acid	NA	
Cadmium Carbonate	WC76081J	
Anti-foam	WC85064G	

Reagents, Autoanalyzer:		
Buffer	WC87038C	
Pyridine Barbituric Acid	WC76296J	

Chloramine-T, fresh daily: 2.00 g Chloramine-T WC76197G diluted to 200 mL with DI

4/13/08

(A) 0.25N NaOH

26.14 mls conc. NaOH (WC85011C) → 2 Liters w/ DI.
Fresh per run.

(B) 10ppm TCN Std. Stock

1.022 mls of the 998.432 ppm TCN Std. Stock (WC85007E)
→ 100 mls w/ 0.25N NaOH (WC85134A)

(C) 10ppm TCN Ref. Stock

1.022 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 10ppm TCN Ref. Stock (WC85134C) + 9.30 mls
0.25N NaOH (WC85134A)

(F)

8/2/04 TCN Distillation

cmw

Ⓐ 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 10ppm 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=5.0ppm

Ⓕ 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.
- OK
- 0.0
- 0.0
- 0.0

Ⓑ CC

Add
to 9.
10 cc

8/3/04
CB

Ⓒ TDs %

0.9120g
DI H₂O
bottle

8/3/04
GN

Ⓓ Pos

Same

8/3/04
cmw

Ⓔ 10%

Same

8/3/04
cmw

Ⓕ Phenc

Same

8/3/04
JOT

Ⓖ Perid F₂

- San

8/4/04
DK

Ⓗ Total S

40.00
DI 1
glas

7/20/07

BB

Received from VWB
(A) 3 x 500g Sodium Permulfate, Cat # V035-07,
JT Baker Lot # E03617, CAS # 7775-27-1.
Store @ RT. Expires 7/20/10

(B) (1) x 100mL Ferric 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 # 44340, CAS # 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
Lib Chem Lot # 7158-18, CAS # 7761-88-8. Store @ 4°C.
Expires 6/13/08

7/20/07

BB

(E) 1000ppm TAN Stock #1: Standard Stock

To a tared 500mL volumetric flask, add:

1.26g KEN (WC76005C)

1.00g KOH (WC76005D)

~ 400 mL DI

Dissolve and bring to volume w/DI. Standardize
and store @ 4°C in amber glass. Expires 7/20/08

(F) 1000ppm TAN Stock #2: Reference Stock

To a tared 500mL volumetric flask, add:

1.26g KEN (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) Rhodamine Indicator Sol'n

Dissolve 0.020g 5-(4-DMAB) Rhodamine (WC76015E)
in 100mL Acetone (WC76060F). Store in glass
@ R.T. Expires 7/20/08

76765C).

POI.

8/19/07

) diluted
e. fresh

mand + cl. Residual
(WC76286E) 0.1N
pines 2 weeks 8/3/07.

nd
in 1L w/DI

mand
(WC76285F) to
un and standardize

m 100 mL

urn.

Store @ 4°C.

it # K98135D.11

pures 7/1/08

Run #: 163108

Analyte: TOTAL CN

9012.TOT TOTAL CYANIDE BY SW-846 9012A

Printed: 07/01/08 14:24

R44538
R44650
R44666
36690

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED			DILUTION	POL	% RECOVERY	% RSD	DATE	
				RESULT							ANALYZED	QC
CHK1		1113891	WATER	0.719			1.0	0.0100	102.7		07/01/2008	
BLK1		1113892	WATER	0.0100	U		1.0	0.0100			07/01/2008	
BLK2		1113893	WATER	0.0100	U		1.0	0.0100			07/01/2008	
SPKB		1113894	WATER	0.0933			1.0	0.0100	93.3		07/01/2008	
SPKB		1113895	WATER	0.408			1.0	0.0100	102.0		07/01/2008	
ESMP	R2844503	1109355	WATER	0.0100	U		1.0	0.0100			07/01/2008	RUN 2
LDUP		1113896	WATER	0.0100	U		1.0	0.0100			07/01/2008	
SPK1		1113897	WATER	0.0947			1.0	0.0100	94.7		07/01/2008	
ESMP	R2844503	1109356	WATER	0.0100	U		1.0	0.0100			07/01/2008	RUN 2
ESMP	R2844538	1111265	WATER	0.0365			1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844538	1111266	WATER	0.0379			1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844538	1111267	WATER	0.0255			1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844538	1111763	WATER	0.0224			1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844538	1111764	WATER	0.0394			1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844538	1111765	WATER	0.0100	U		1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844650	1112065	WATER	0.0326			1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844650	1112066	WATER	0.0376			1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844650	1112067	WATER	0.0100	U		1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844666	1112361	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	ASPB
SPKS		1113904	SOIL/SEDIME	4.90			1.0	1.00	98.1		07/01/2008	CL 7/2008
SPKS		1113905	SOIL/SEDIME	20.8			1.0	1.00	104.3		07/01/2008	
ESMP	R2844666	1112362	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	QC ASPB
LDUP		1113906	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	
SPK1		1113907	SOIL/SEDIME	4.88			1.0	1.00	103.5		07/01/2008	
ESMP	R2844666	1112363	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	ASPB
ESMP	R2844666	1112364	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	ASPB
ESMP	R2844666	1112365	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	ASPB
ESMP	R2844650	1112486	WATER	0.0100	U		1.0	0.0100			07/01/2008	RUN ASPB
LDUP		1113898	WATER	0.0100	U		1.0	0.0100			07/01/2008	
SPK1		1113899	WATER	0.0100	U		1.0	0.0100			07/01/2008	
ESMP	R2844650	1112487	WATER	0.0100	U		1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844650	1112488	WATER	0.0358			1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844650	1112489	WATER	0.0100	U		1.0	0.0100			07/01/2008	RUN ASPB
ESMP	R2844650	1112809	WATER	0.0100	U		1.0	0.0100			07/01/2008	ASPB
ESMP	R2844650	1112810	WATER	0.0100	U		1.0	0.0100			07/01/2008	ASPB
ESMP	R2844650	1112811	WATER	0.0100	U		1.0	0.0100			07/01/2008	ASPB
ESMP	R2844650	1112812	WATER	0.0100	U		1.0	0.0100			07/01/2008	ASPB
LDUP	SPKB	1113900	WATER	0.100			1.0	0.0100	100.3		07/01/2008	
SPKB	SPKB	1113901	WATER	0.410			1.0	0.0100	102.6		07/01/2008	
ESMP	R2844650	1112871	WATER	0.0287			1.0	0.0100			07/01/2008	ASPB
ESMP	R2844650	1112872	WATER	0.0280			1.0	0.0100			07/01/2008	ASPB
ESMP	R2844650	1112874	WATER	0.0100	U		1.0	0.0100			07/01/2008	QC ASPB
LDUP		1113902	WATER	0.0100	U		1.0	0.0100			07/01/2008	
SPK1		1113903	WATER	0.0736			1.0	0.0100	73.6		07/01/2008	
ESMP	R2844666	1113245	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	ASPB
ESMP	R2844666	1113249	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	ASPB
ESMP	R2844666	1113250	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	QC ASPB
LDUP		1113908	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	
SPK1		1113909	SOIL/SEDIME	4.68			1.0	1.00	104.9		07/01/2008	
ESMP	R2844666	1113254	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	ASPB
ESMP	R2844666	1113255	SOIL/SEDIME	1.00	U		1.0	1.00			07/01/2008	ASPB

Reviewed & Approved
By: OKUBU
Date: 7/2/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>RESULT</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
ESMP	R2844666	~ 1113256	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	~ 1113257	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	~ 1113258	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	~ 1113259	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
ESMP	R2844666	~ 1113262	SOIL/SEDIME	1.00	U	1.0	1.00			07/01/2008		ASPB
Bulk		~ 1114225	SOIL/SEDIME	1.00	U	1.0	1.00					

Records printed: 56

Midi-Cyanide Distillation Sheet

Stock ppm: 978.432

Analyst: GN/TA

Date Std'n: 1/18/08

Date: 6/30/08

10 ppm Spike Solution:

Chiller Temp: 6°C

Date made: 6/30/08

Midi Block #1 Temp: 1250

mL used: 1.022

Midi Block #2 Temp: 125°C

Pipette ID: T4

1

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1	Prep Blk	water		50	50	335.4/9012	N/A	N/A	
2	LCS-LL	water		50	50	335.4/9012	N/A	N/A	+0.5ml of 10ppm
3	LCS-HL	water		50	50	335.4/9012	N/A	N/A	+2.0ml of 10ppm
4		R44503	1109355	50	50	9012	≥12	-	
5			355 DUP	50	50	9012	≥12	-	
6			355 SPK	50	50	9012	≥12	-	+0.5ml of 10ppm
7			1109356	50	50	9012	≥12	-	
8		R44538	1111264	50	50	9012	≥12	-	
9			1111265	50	50	9012	~10	-	
10			1111266	50	50	9012	≥12	-	
11			1111267	50	50	9012	≥12	-	
12			1111763	50	50	9012	≥12	-	
13			1111764	50	50	9012	≥12	-	
14			1111765	50	50	9012	≥12	-	
15		R44650	1112065	50	50	9012	≥12	-	
16			1112066	50	50	9012	~10	-	
17			1112067	50	50	9012	≥12	-	
18			1112486	50	50	9012	≥12	-	
19			486 DUP	50	50	9012	≥12	-	
20			486 SPK	50	50	9012	≥12	-	+0.5ml of 10ppm

Midi-Cyanide Distillation Sheet

 Analyst: GN

 Date: 6/30/08

 Chiller Temp: 7°C

 Midi Block #1 Temp: 125°C

 Midi Block #2 Temp: 125°C

Stock ppm: _____

Date Std'n: _____

10 ppm Spike Solution: _____

Date made: _____

mL used: _____

Pipette ID: _____

2

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1			1112487	50	50	9012	≥12	—	
2			1112488	50	50	9012	≥12	—	
3			1112489	50	50	9012	≥12	—	
4			1112809	50	50	9012	~10	—	
5			1112810	50	50	9012	~8	—	
6			1112811	50	50	9012	~8	—	
7			1112812	50	50	9012	≥12	—	
8	Prep Blk	water		50	50	9012	N/A	N/A	
9	LCS-LL	water		50	50	9012	N/A	N/A	+0.5ml of 10ppm
10	LCS-HL	water		50	50	9012	N/A	N/A	+2.0ml of 10ppm
11			1112874	50	50	9012	~9	—	
12			874 DUP	50	50	9012	~9	—	
13			874 SPK	50	50	9012	~9	—	+0.5ml of 10ppm
14			1112871	50	50	9012	≥12	—	
15			1112872	50	50	9012	≥12	—	
16		R44729	1112950	50	50	335.4	≥12	—	
17	Prep Blk	soil		1.00	50	9012	N/A	N/A	
18	LCS-LL	soil		1.00	50	9012	N/A	N/A	+0.5ml of 10ppm
19	LCS-HL	soil		1.00	50	9012	N/A	N/A	+2.0 ml of 10ppm
20		R44666	1112361	1.02	50	9012	N/A	—	

49.02

Midi-Cyanide Distillation Sheet

Analyst: GN

Date: 6/30/08

Chiller Temp: 7°C

Midi Block #1 Temp: 125°C

Midi Block #2 Temp: 125°C

Stock ppm: _____

Date Std'n: _____

10 ppm Spike Solution: _____

Date made: _____

mL used: _____

Pipette ID: _____

3

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments	
1		R44666	1112362	1.07	50	9012	N/A	—		46.73
2			362 DUP	1.11	50	9012	N/A	—		45.05
3			362 SPK	1.06	50	9012	N/A	—	+ 0.5 ml of 10ppm	47.17
4			1112363	1.08	50	9012	N/A	—		46.29
5			1112364	1.19	50	9012	N/A	—		42.02
6			1112365	1.06	50	9012	N/A	—		47.17
7			1113245	1.14	50	9012	N/A	—		43.86
8			1113249	1.10	50	9012	N/A	—		45.45
9			1113250	1.06	50	9012	N/A	—		47.17
10			250 DUP	1.19	50	9012	N/A	—		42.02
11			250 SPK	1.12	50	9012	N/A	—	+ 0.5 ml of 10ppm	44.64
12			1113254	1.19	50	9012	N/A	—		42.02
13			1113255	1.07	50	9012	N/A	—		46.73
14			1113256	1.01	50	9012	N/A	—		49.50
15			1113257	1.09	50	9012	N/A	—		45.87
16			1113258	1.03	50	9012	N/A	—		48.54
17			1113259	1.08	50	9012	N/A	—		46.29
18			1113262	1.09	50	9012	N/A	—		45.87
19		<u>GN 6/30/08</u>			50					
20					50					

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200
 Analyst: *GNITA*

01.07.2008 09:02

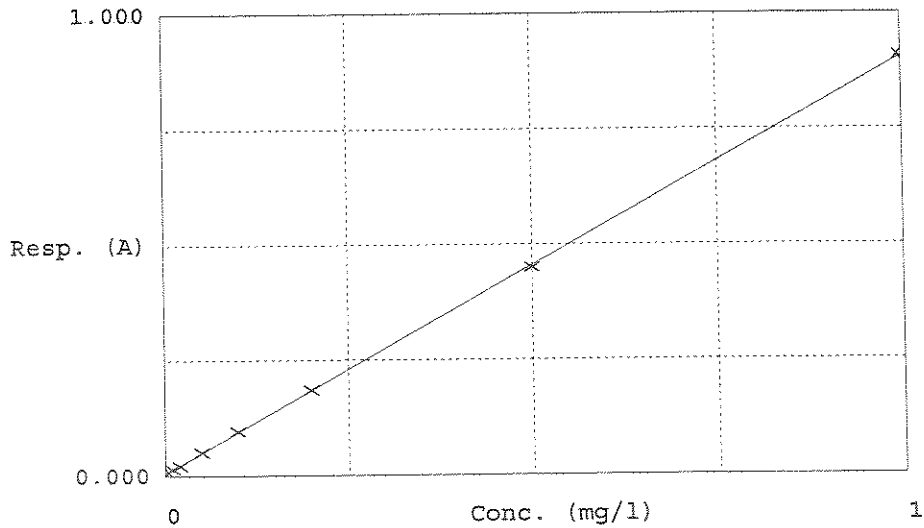
 Test Total CN *335.4 / 902* *Pipet used: E1*

Accepted 01.07.2008 09:02

Factor 1.11103
 Bias 0.00499

Coeff. of det. 0.999945

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.00624	0.00139	0.00000	
2	CN-0.01	0.01471	0.01080	0.01000	
3	CN-0.02	0.02141	0.01824	0.02000	
4	CN-0.05	0.05082	0.05092	0.05000	
5	CN-0.1	0.09596	0.10107	0.10000	
6	CN-0.2	0.18563	0.20070	0.20000	
7	CN-0.5	0.44990	0.49430	0.50000	
8	CN-1	0.90739	1.00258	1.00000	
9	1 ICV-TCN (contr	0.65190	0.71873	0.70000	
10	2 ICB-TCN (contr	0.00593	0.00105	0.00000	

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200
 Analyst: G. NITR

Date : 2008-07-01
 Time : 12.56

Test Unit	Resp.	Result	Man.dilut Dilut	Date and Time
1 ICV-TCN	0.652	0.71873		2008-07-01 08.58
2 ICB-TCN	0.006	0.00105		2008-07-01 08.58
3 CCV-TCN	0.615	0.67826		2008-07-01 09.24
4 CCB-TCN	0.006	0.00103		2008-07-01 09.24
PB 1	0.008	0.00281		2008-07-01 09.24
LCS-LL 1	0.089	0.09330		2008-07-01 09.24
LCS-HL 1	0.372	0.40798		2008-07-01 09.24
R1109355	0.005	-0.00016		2008-07-01 09.24
355 DUP	0.006	0.00156		2008-07-01 09.24
355 SPK	0.090	0.09474		2008-07-01 09.24
R1109356	0.005	0.00034		2008-07-01 09.24
R1111264	-0.077	-0.09152	matrix issues redistill @ dilution	2008-07-01 09.24
R1111265	0.038	0.03652		2008-07-01 09.24
R1111266	0.039	0.03794		2008-07-01 09.31
3 CCV-TCN	0.597	0.65762		2008-07-01 09.31
4 CCB-TCN	0.007	0.00232		2008-07-01 09.31
R1111267	0.028	0.02547		2008-07-01 09.31
R1111763	0.025	0.02238		2008-07-01 09.31
R1111764	0.040	0.03935		2008-07-01 09.31
R1111765	0.003	-0.00268		2008-07-01 09.31
R1112065	0.034	0.03256		2008-07-01 09.31
R1112066	0.039	0.03763		2008-07-01 09.31
R1112067	0.004	-0.00073		2008-07-01 09.31
R1112486	0.003	-0.00178		2008-07-01 09.31
486 DUP	0.004	-0.00146		2008-07-01 09.39
486 SPK	0.006	0.00150		2008-07-01 09.39
3 CCV-TCN	0.613	0.67564		2008-07-01 09.39
4 CCB-TCN	0.006	0.00088		2008-07-01 09.39
R1112487	0.005	-0.00045		2008-07-01 09.39
R1112488	0.037	0.03584		2008-07-01 09.39
R1112489	0.004	-0.00086		2008-07-01 09.39
R1112809	0.005	0.00011		2008-07-01 09.39
R1112810	0.004	-0.00091		2008-07-01 09.39
R1112811	0.005	-0.00000		2008-07-01 09.39
R1112812	0.006	0.00114		2008-07-01 09.39
PB 2	0.005	0.00042		2008-07-01 09.46
LCS-LL 2	0.095	0.10029		2008-07-01 09.46
LCS-HL 2	0.375	0.41059		2008-07-01 09.46
3 CCV-TCN	0.585	0.64480		2008-07-01 09.46
4 CCB-TCN	0.005	0.00005		2008-07-01 09.46
R1112874	0.004	-0.00059		2008-07-01 09.46
874 DUP	0.005	-0.00024		2008-07-01 09.46
874 SPK	0.071	0.07361		2008-07-01 09.46
R1112871	0.031	0.02873		2008-07-01 09.46
R1112872	0.030	0.02802		2008-07-01 09.46
R1112950	0.023	0.01984		2008-07-01 09.46
PB soil	0.005	0.00024	150 = 1.004	2008-07-01 09.54
LCS-LL soil	0.093	0.09808	150 = 4.904	2008-07-01 09.54
LCS-HL soil	0.380	0.41718	150 = 20.859	2008-07-01 09.54
R1112361	0.005	-0.00014		2008-07-01 09.54
3 CCV-TCN	0.611	0.67355		2008-07-01 09.54

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200
 Analyst: ELO/TA

Date : 2008-07-01
 Time : 12.56

Test Total CN 9012 / 338.4
 Unit mg/l

Sample ID:	Resp.	Result	Man.dilut	Dilut	Date and Time
4 CCB-TCN	0.006	0.00069			2008-07-01 09.54
R1112362	0.005	0.00028	x46.76	<1.00	2008-07-01 09.54
362 DUP	0.005	0.00043	x 47.05	<1.00	2008-07-01 09.54
362 SPK	0.098	0.10354	x 47.17	4.88	2008-07-01 09.54
R1112363	0.004	-0.00137	x 46.29	<1.00	2008-07-01 09.54
R1112364	0.005	0.00011	x 42.02	<1.00	2008-07-01 09.54
R1112365	0.004	-0.00072	x 47.17	<1.00	2008-07-01 10.01
R1113245	0.005	-0.00010	x 43.86	<1.00	2008-07-01 10.01
R1113249	0.005	0.00041	x 45.45	<1.00	2008-07-01 10.01
R1113250	0.005	0.00036	x 47.17	<1.00	2008-07-01 10.01
250 DUP	0.006	0.00161	x 42.02	<1.00	2008-07-01 10.01
3 CCV-TCN	0.623	0.68650			2008-07-01 10.01
4 CCB-TCN	0.006	0.00149			2008-07-01 10.01
250 SPK	0.099	0.10486	x 44.24	4.68	2008-07-01 10.01
R1113254	0.006	0.00080	x 42.02	<1.00	2008-07-01 10.01
R1113255	0.006	0.00057	x 46.73	<1.00	2008-07-01 10.01
R1113256	0.006	0.00062	x 49.70	<1.00	2008-07-01 10.01
R1113257	0.005	0.00035	x 45.87	<1.00	2008-07-01 10.05
R1113258	0.005	0.00056	x 48.54	<1.00	2008-07-01 10.05
R1113259	0.005	0.00008	x 46.29	<1.00	2008-07-01 10.05
R1113262	0.005	-0.00016	x 45.87	<1.00	2008-07-01 10.05
3 CCV-TCN	0.654	0.72095			2008-07-01 10.08
4 CCB-TCN	0.006	0.00058			2008-07-01 10.08
3 CCV-TCN	0.632	0.69660			2008-07-01 10.28
4 CCB-TCN	0.005	0.00054			2008-07-01 10.28
R111264 RPT STR	0.023	0.02029			2008-07-01 10.28
264 RPT 1/2	0.030	0.02750			2008-07-01 10.28
264 RPT 1/4	0.024	0.02080			2008-07-01 10.28
R111486 SPK RPT	0.003	-0.00185			2008-07-01 10.28
3 CCV-TCN	0.644	0.70944			2008-07-01 10.32
4 CCB-TCN	0.005	-0.00034			2008-07-01 10.32
3 CCV-TCN	0.634	0.69851			2008-07-01 11.18
4 CCB-TCN	0.005	0.00027			2008-07-01 11.18
1111264 RPT STR	-0.051	-0.06264			2008-07-01 11.18
1111264 RPT 1/2	0.035	0.03385			2008-07-01 11.18
3 CCV-TCN	0.629	0.69303			2008-07-01 11.21
4 CCB-TCN	0.005	-0.00013			2008-07-01 11.21
3 CCV-TCN	0.647	0.71333			2008-07-01 11.58
4 CCB-TCN	0.005	0.00021			2008-07-01 11.58
1111264 RPT 1/5	0.026				-
1111264 RPT 1/10	0.023				-
3 CCV-TCN	0.627	0.69126			2008-07-01 12.01
4 CCB-TCN	0.006	0.00071			2008-07-01 12.01
3 CCV-TCN	0.629	0.69372			2008-07-01 12.23
4 CCB-TCN	0.008	0.00373			2008-07-01 12.23
1111264 RPT 1/5	0.027	0.02496			2008-07-01 12.23
1111264 RPT 1/10	0.023	0.02050			2008-07-01 12.23
3 CCV-TCN	0.606	0.66793			2008-07-01 12.26
4 CCB-TCN	0.005	0.00041			2008-07-01 12.26

*Confirms the original
 not needed
 used to
 confirm
 matrix issue
 1111264
 +
 not reported
 low
 matrix
 spike
 recovery
 not reported.
 CHM/los*

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst: *CN*

01.07.2008 12:30

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
1 ICV-TCN	0.71873	0.0	0.652	
2 ICB-TCN	0.00105	0.0	0.006	
3 CCV-TCN	0.67826	0.0	0.615	
4 CCB-TCN	0.00103	0.0	0.006	
PB 1	0.00281	0.0	0.008	
LCS-LL 1	0.09330	0.0	0.089	
LCS-HL 1	0.40798	0.0	0.372	
R1109355	-0.00016	0.0	0.005	
355 DUP	0.00156	0.0	0.006	
355 SPK	0.09474	0.0	0.090	
R1109356	0.00034	0.0	0.005	
R1111264	-0.09152	0.0	-0.077	
R1111265	0.03652	0.0	0.038	
R1111266	0.03794	0.0	0.039	
3 CCV-TCN	0.65762	0.0	0.597	
4 CCB-TCN	0.00232	0.0	0.007	
R1111267	0.02547	0.0	0.028	
R1111763	0.02238	0.0	0.025	
R1111764	0.03935	0.0	0.040	
R1111765	-0.00268	0.0	0.003	
R1112065	0.03256	0.0	0.034	
R1112066	0.03763	0.0	0.039	
R1112067	-0.00073	0.0	0.004	
R1112486	-0.00178	0.0	0.003	
486 DUP	-0.00146	0.0	0.004	
486 SPK	0.00150	0.0	0.006	
3 CCV-TCN	0.67564	0.0	0.613	
4 CCB-TCN	0.00088	0.0	0.006	
R1112487	-0.00045	0.0	0.005	
R1112488	0.03584	0.0	0.037	
R1112489	-0.00086	0.0	0.004	
R1112809	0.00011	0.0	0.005	
R1112810	-0.00091	0.0	0.004	
R1112811	-0.00000	0.0	0.005	
R1112812	0.00114	0.0	0.006	
PB 2	0.00042	0.0	0.005	
LCS-LL 2	0.10029	0.0	0.095	
LCS-HL 2	0.41059	0.0	0.375	
3 CCV-TCN	0.64480	0.0	0.585	
4 CCB-TCN	0.00005	0.0	0.005	
R1112874	-0.00059	0.0	0.004	
874 DUP	-0.00024	0.0	0.005	
874 SPK	0.07361	0.0	0.071	
R1112871	0.02873	0.0	0.031	
R1112872	0.02802	0.0	0.030	
R1112950	0.01984	0.0	0.023	
PB soil	0.00024	0.0	0.005	
LCS-LL soil	0.09808	0.0	0.093	
LCS-HL soil	0.41718	0.0	0.380	
R1112361	-0.00014	0.0	0.005	
3 CCV-TCN	0.67355	0.0	0.611	
4 CCB-TCN	0.00069	0.0	0.006	
R1112362	0.00028	0.0	0.005	
362 DUP	0.00043	0.0	0.005	
362 SPK	0.10354	0.0	0.098	

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst: CN

01.07.2008 12:30

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
R1112363	-0.00137	0.0	0.004	
R1112364	0.00011	0.0	0.005	
R1112365	-0.00072	0.0	0.004	
R1113245	-0.00010	0.0	0.005	
R1113249	0.00041	0.0	0.005	
R1113250	0.00036	0.0	0.005	
250 DUP	0.00161	0.0	0.006	
3 CCV-TCN	0.68650	0.0	0.623	
4 CCB-TCN	0.00149	0.0	0.006	
250 SPK	0.10486	0.0	0.099	
R1113254	0.00080	0.0	0.006	
R1113255	0.00057	0.0	0.006	
R1113256	0.00062	0.0	0.006	
R1113257	0.00035	0.0	0.005	
R1113258	0.00056	0.0	0.005	
R1113259	0.00008	0.0	0.005	
R1113262	-0.00016	0.0	0.005	
3 CCV-TCN	0.72095	0.0	0.654	
4 CCB-TCN	0.00058	0.0	0.006	
3 CCV-TCN	0.69660	0.0	0.632	
4 CCB-TCN	0.00054	0.0	0.005	
R1111264 RPT STR	0.02029	0.0	0.023	
264 RPT 1/2	0.02750	0.0	0.030	
264 RPT 1/4	0.02080	0.0	0.024	
R111486 SPK RPT	-0.00185	0.0	0.003	
3 CCV-TCN	0.70944	0.0	0.644	
4 CCB-TCN	-0.00034	0.0	0.005	
3 CCV-TCN	0.69851	0.0	0.634	
4 CCB-TCN	0.00027	0.0	0.005	
1111264 RPT STR	-0.06264	0.0	-0.051	
1111264 RPT 1/2	0.03385	0.0	0.035	
3 CCV-TCN	0.69303	0.0	0.629	
4 CCB-TCN	-0.00013	0.0	0.005	
3 CCV-TCN	0.71333	0.0	0.647	
4 CCB-TCN	0.00021	0.0	0.005	
1111264 RPT 1/5	0.02381	0.0	0.026	
1111264 RPT 1/10	0.01950	0.0	0.023	
3 CCV-TCN	0.69126	0.0	0.627	
4 CCB-TCN	0.00071	0.0	0.006	
3 CCV-TCN	0.69372	0.0	0.629	
4 CCB-TCN	0.00373	0.0	0.008	
1111264 RPT 1/5	0.02496	0.0	0.027	
1111264 RPT 1/10	0.02050	0.0	0.023	
3 CCV-TCN	0.66793	0.0	0.606	
4 CCB-TCN	0.00041	0.0	0.005	

N	68
Mean	0.03361
SD	0.088526
CV%	263.38

Analyst: GNITA

Distillation Date: 6/30/08

Analysis: Total Cyanide Instrument: AquaKem 200

Analyzer Date: 7/01/08

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	WC85133H	
Sulfuric Acid, 1:1	WC85153E	
Magnesium Chloride	WC85133 WC85170A	6N 6/30/08
Calcium Hypochlorite	N/A	
Ascorbic Acid	N/A	
Acetate Buffer	N/A	
Zinc Acetate	N/A	
Acetic Acid	N/A	
Cadmium Carbonate	WC76081J	
Anti-foam	N/A	

Reagents, Autoanalyzer:		
Buffer	WC85018C	
Pyridine Barbituric Acid	WC76296J	

Chloramine-T, fresh daily: 2.00 g Chloramine-T WC76197G diluted to 200 mL with DI

4/2/08

(A) 0.25N 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 10ppm TCN Ref. Stock (WC85134C) + 9.30 mls
0.25N NaOH (WC85134A)

(F)

8/2/04 TCN Distillation

cmw

Ⓐ 0.25N NaOH

40.0mLs NaOH (W669074F, 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 (W669154D), Standardization
W671016A → 100mL w/ 0.25 NaOH (W669160A).
Prepare fresh weekly. Store in amber glass @ 4°C.

Ⓒ TCN Low Level LCS:

Add 0.50mL 10ppm working Standard Stock (W669160B)
to 50mL DI. TV=0.100ppm. For soils, add 1.0g
Ottawa sand to 50.0mL DI and 0.50mL 10ppm
Standard working stock (W669160B). TV=5.0ppm.

Ⓓ TCN High Level LCS:

Add 2.0mL 10ppm Standard working stock (W669160B)
to 50mL DI. TV=0.400ppm. For soils, add 1.0g
Ottawa sand to 50mL DI and 2.0mL 10ppm
Standard working stock (W669160B). TV=20.0ppm.

Ⓔ TCN Matrix Spike

Add 0.50mLs 10ppm Standard Working Stock (W669160B)
to 50.0mL sample. TV=0.100ppm. For soils, 1.0g sample
to 50.0mL DI and 0.50mL 10ppm Standard working
stock (W669160B). TV=5.0ppm

Ⓕ TCN 10ppm Reference Working Stock

Add 1.002mL TCN Ref. Stock #2 (W669154E) Standardization
W671016B → 100mLs w/ 0.25N NaOH (W669160A). 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
- 0.0
- 0

Ⓑ CC

• Add
to 9,
10 sci

8/3/04
CB

Ⓒ TDS 7
0.9120g
DI H₂O
Bottle

8/3/04
GN

Ⓓ Phos
Same

8/3/04
cmw

Ⓔ 10%
Same

8/3/04
cmw

Ⓕ Phend
Same

8/3/04
JST

Ⓖ Paricid Fe
-5an

8/4/04
DK

Ⓗ Total S
400.00
DI 1
als:

7/20/07 Received from VWB

BB

- (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 Ferric Indicator, Cat # H119-01, Mullinckroft Lot # E22433, CAS # 7720-76-7, 66-71-7. Store @ R.T. Expires 7/20/10

76266C).

POI.

8/19/07

Received from Fisher

- (C) (1) x 1 L AquaStar Comp-5, Cat # AX1698A-6, EMS Lot # 46340, CAS # 109-86-4, 288-32-4, 7553-56-2, 7446-69-5. Store in flammable cabinet. Expires 7/20/10
- (D) (1) x 500mL Silver Nitrate, 0.0192N, Cat # ^{LC22630-1} ~~7158-18~~ 7154, Lab Chem Lot # 7158-18, CAS # 7761-88-8. Store @ 4°C. Expires 6/13/08

diluted
+ fresh

mand + cl. Residual
(WC76286E) 0.1N
pires 2 weeks 8/3/07.

7/20/07

BB

- (E) 1000ppm TAN Stock #1: Standard Stock
To a tared 500mL volumetric flask, add:
1.26g KEN (WC76005C)
1.00g KOH (WC76005D)
~ 400 mL DI
Dissolve and bring to volume w/DI. Standardize and store @ 4°C in amber glass. Expires 7/20/08.

nd
in 1L w/DI

mand
(WC76285F) to
un and standardize

- (F) 1000ppm TAN Stock #2: Reference Stock
To a tared 500mL volumetric flask, add:
1.26g KEN (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

m 100 mL

7/20/07

BB

- (G) Rhodamine Indicator Soln
Dissolve 0.020g 5-(4-DMAB) Rhodamine (WC76015E) in 100mL Acetone (WC76060F). Store in glass @ R.T. Expires 7/20/08

ton.
Store @ 4°C.

K981350.11
pires 7/1/08

R44650
 R44768
 R44797
 R44538
 4 copies

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	POL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114909	WATER	0.699	1.0	0.0100	99.9		07/03/2008		
BLK1		1114910	WATER	0.0100	U	1.0	0.0100		07/03/2008		
BLK2		1114911	WATER	0.0100	U	1.0	0.0100		07/03/2008		
SPKB		1114912	WATER	0.0973		1.0	0.0100	97.3	07/03/2008		
SPKB		1114913	WATER	0.402		1.0	0.0100	100.4	07/03/2008		
ESMP	R2844650	1113427	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844650	1113428	WATER	0.0151		1.0	0.0100		07/03/2008		ASPB
ESMP	R2844650	1113429	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844650	1113430	WATER	0.0256		1.0	0.0100		07/03/2008		ASPB
ESMP	R2844768	1113695	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844768	1113696	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844768	1113697	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844768	1113698	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
ESMP	R2844768	1113699	WATER	0.0100	U	1.0	0.0100		07/03/2008		ASPB
LDUP		1114914	WATER	0.0100	U	1.0	0.0100		07/03/2008		
SPK1		1114915	WATER	0.0788		1.0	0.0100	78.8	07/03/2008		
ESMP	R2844797	1114366	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008		ASPB
ESMP	R2844797	1114376	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008		ASPB
ESMP	R2844797	1114379	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008		ASPB
ESMP	R2844797	1114380	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008	QC	ASPB
LDUP		1114916	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008		
SPK1		1114917	SOIL/SEDIME	3.96		1.0	1.00	81.6	07/03/2008		
SPKS		1114918	SOIL/SEDIME	4.45		1.0	1.00	89.0	07/03/2008		
SPKS		1114919	SOIL/SEDIME	19.0		1.0	1.00	94.9	07/03/2008		
ESMP	R2844797	1114382	SOIL/SEDIME	1.00	U	1.0	1.00		07/03/2008		ASPB
ESMP	R2844538	1111264	WATER	0.0200	U	2.0	0.0100		07/03/2008	RUN	ASPB

MARKS - 1115127 SOIL/SED 1.00 U

Records printed: 26

Reviewed & Approved

By: CM

Date: 7/8/08

Midi-Cyanide Distillation Sheet

Analyst: GNITA

Date: 7/21/07

Chiller Temp: 7°C

Midi Block #1 Temp: 12°C

Midi Block #2 Temp: 12°C

Stock ppm: 978.432

Date Std'n: 11/8/07

10 ppm Spike Solution:

Date made: 6/30/07

mL used: 1.022

Pipette ID: TY

1

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1	Prep Blk	water		50	50	335.4/9012	N/A	N/A	
2	LCS-LL	water		50	50	335.4/9012	N/A	N/A	+0.5µs of 10ppm
3	LCS-HL	water		50	50	335.4/9012	N/A	N/A	+2.0µs of 10ppm
4		R44650	1113426	50	50	9012	≥12	-	
5			426 DUP	50	50	9012	≥12	-	
6			426 SPK	50	50	9012	≥12	-	+0.12µs of 10ppm
7			1113427	50	50	9012	≥12	-	
8			1113428	50	50	9012	≥12	-	
9			1113429	50	50	9012	≥12	-	
10			1113430	50	50	9012	≥12	-	
11		R44768	1113695	50	50	9012	≥12	-	
12			1113696	50	50	9012	8	-	
13			1113697	50	50	9012	≥12	-	
14			1113698	50	50	9012	≥12	-	
15			1113699	50	50	9012	≥12	-	
16			699 DUP	50	50	9012	≥12	-	
17			699 SPK	50	50	9012	≥12	-	+0.12µs of 10ppm
18			1111264	25	50	9012	≥12	-	
19			1111264	10	50	9012	≥12	-	
20		GN	7/21/07		50				

Midi-Cyanide Distillation Sheet

Analyst: GN

Date: 7/2/07

Chiller Temp: 9°C

Midi Block #1 Temp: 12°C

Midi Block #2 Temp: 12°C

Stock ppm: _____

Date Std'n: _____

10 ppm Spike Solution: _____

Date made: _____

mL used: _____

Pipette ID: _____

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1		R44804	1114423	50	50	9012	7.12	-	
2		R44803	1114421	50	50	9012	7.12	-	
3			421 DUP	50	50	9012	7.12	-	
4			421 SPK	50	50	9012	7.12	-	+ 0.5mls of 10ppm
5			1114420	50	50	9012	7.12	-	
6			1114419	50	50	9012	7.12	-	
7	Prep Blk	soil		1.00	50	9012	N/A	-	
8	LCS-LL	soil		1.00	50	9012	N/A	-	+ 0.5mls of 10ppm
9	LCS-HL	soil		1.00	50	9012	N/A	-	+ 2.0mls of 10ppm
10		R44797	1114380	1.05	50	9012	N/A	-	
11			380 DUP	1.09	50	9012	N/A	-	
12			380 SPK	1.03	50	9012	N/A	-	+ 0.5mls of 10ppm
13			1114366	1.07	50	9012	N/A	-	
14			1114376	1.01	50	9012	N/A	-	
15			1114379	1.10	50	9012	N/A	-	
16			1114382	1.13	50	9012	N/A	-	
17					50				
18					50				
19					50				
20					50				

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200
 Analyst: *GN/TA*

03.07.2008 11:24

Test Total CN *365.1*

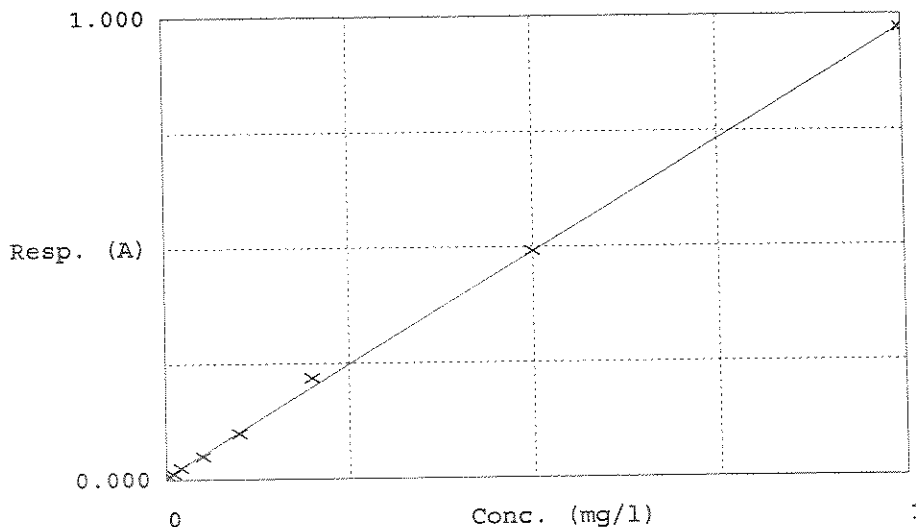
*Pipets used: Worchel Worman
 Spidernace*

Accepted 03.07.2008 11:24

Factor 1.03346
 Bias 0.00632

Coeff. of det. 0.999468

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.00290	-0.00353	0.00000	
2	CN-0.01	0.01211	0.00599	0.01000	
3	CN-0.02	0.02542	0.01974	0.02000	
4	CN-0.05	0.04993	0.04507	0.05000	
5	CN-0.1	0.09949	0.09629	0.10000	
6	CN-0.2	0.21870	0.21949	0.20000	
7	CN-0.5	0.49050	0.50039	0.50000	
8	CN-1	0.97062	0.99657	1.00000	
9	1 ICV-TCN (contr	0.68293	0.69925	0.70000	
10	2 ICB-TCN (contr	0.00335	-0.00307	0.00000	

Columbia Analytical Services
 Rochester, NY 14607
 Aquakem 200
 Analyst: *GN*

03.07.2008 13:28

 Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
1 ICV-TCN	0.69925	0.0	0.683	
2 ICB-TCN	-0.00307	0.0	0.003	
3 CCV-TCN	0.69547	0.0	0.679	
4 CCB-TCN	-0.00061	0.0	0.006	
PB	-0.00217	0.0	0.004	
LCS-LL	0.09728	0.0	0.100	
LCS-HL	0.40169	0.0	0.395	
1113426	-0.43091	0.0	-0.411	
426 DUP	-0.44247	0.0	-0.422	
426 SPK	-0.05334	0.0	-0.045	
1113427	-0.00139	0.0	0.005	
1113428	0.01514	0.0	0.021	
1113429	-0.00166	0.0	0.005	
1113430	0.02559	0.0	0.031	
3 CCV-TCN	0.69751	0.0	0.681	
4 CCB-TCN	-0.00041	0.0	0.006	
1113695	-0.00143	0.0	0.005	
1113696	-0.00120	0.0	0.005	
111697	-0.00180	0.0	0.005	
1113698	-0.00280	0.0	0.004	
1113699	-0.00243	0.0	0.004	
699 DUP	-0.00302	0.0	0.003	
699 SPK	0.07883	0.0	0.083	
1111264 (1)	0.00695	0.0	0.013	
1111264 (2)	-0.00204	0.0	0.004	
1114423	-0.00133	0.0	0.005	
3 CCV-TCN	0.69911	0.0	0.683	
4 CCB-TCN	-0.00074	0.0	0.006	
1114421	-0.57429	0.0	-0.549	
421 DUP	-0.57824	0.0	-0.553	
421 SPK	-0.28868	0.0	-0.273	
1114420	-0.52525	0.0	-0.502	
1114419	-0.51744	0.0	-0.494	
PB soil	-0.00241	0.0	0.004	
LCS -LL soil	0.08308	0.0	0.087	
LCS-HL soil	0.37973	0.0	0.374	
1114380	-0.00199	0.0	0.004	
380 DUP	-0.00068	0.0	0.006	
3 CCV-TCN	0.69952	0.0	0.683	
4 CCB-TCN	-0.00115	0.0	0.005	
380 SPK	0.08153	0.0	0.085	
1114366	-0.00347	0.0	0.003	
1114376	-0.00174	0.0	0.005	
1114379	-0.00184	0.0	0.005	
1114382	-0.00107	0.0	0.005	
3 CCV-TCN	0.74732	0.0	0.729	
4 CCB-TCN	-0.00200	0.0	0.004	
LCS -LL soil	0.08901	0.0	0.092	
3 CCV-TCN	0.74918	0.0	0.731	
4 CCB-TCN	-0.00243	0.0	0.004	
3 CCV-TCN	0.68793	0.0	0.672	
4 CCB-TCN	-0.00210	0.0	0.004	
1113426 RPT1/40	0.02217	0.0	0.028	
1113426 RPT1/100	0.01199	0.0	0.018	
1114421 RPT1/40	0.01957	0.0	0.025	

Columbia Analytical Services
Rochester, NY 14607
AquaKem 200
Analyst: GN

03.07.2008 13:28

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
1114421 RPT1/100	0.01741	0.0	0.023	
1114420 RPT1/40	0.01658	0.0	0.022	
1114420 RPT1/100	0.01935	0.0	0.025	
1114419 RPT1/40	0.02104	0.0	0.027	
1114419 RPT1/100	0.00379	0.0	0.010	
3 CCV-TCN	0.74220	0.0	0.724	
4 CCB-TCN	-0.00219	0.0	0.004	

N 44
Mean -0.04669
SD 0.211620
CV% 453.25

Analyst: GNITA

Distillation Date: 7/2/07

Analysis: Total Cyanide Instrument: AquaKem 200

Analyzer Date: 7/03/07

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	WC85171E	
Sulfuric Acid, 1:1	WC85153E	
Magnesium Chloride	WC85170A	
Calcium Hypochlorite	N/A	
Ascorbic Acid	N/A	
Acetate Buffer	N/A	
Zinc Acetate	N/A	
Acetic Acid	N/A	
Cadmium Carbonate	WC76081J	
Anti-foam	N/A	

Reagents, Autoanalyzer:		
Buffer	WC85053C	
Pyridine Barbituric Acid	WC76296J	

Chloramine-T, fresh daily: 2.00 g Chloramine-T WC76197G diluted to 200 mL with DI

4/21/08

(A) 0.25 N NaOH

26.14 mls conc. NaOH (WCR5011C) → 2 Liters w/ DI.
Fresh per run.

(B) 10 ppm TCN Std. Stock

1.022 mls of the 978.432 ppm TCN Std. Stock (WCR5007E)
→ 100 mls w/ 0.25 N NaOH (WCR5134A)

(C) 10 ppm TCN Ref. Stock

1.002 mls of the 998.4 ppm TCN Ref. Stock (WCR5007F)
→ 100 mls w/ 0.25 N NaOH (WCR5134A)

(D) TCN Calibration Stds. Fresh per run

conc.	mls 10 ppm TCN Std. Stock (WCR5134B)	mls 0.25 N 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 (WCR5134C) + 9.30 mls
0.25 N NaOH (WCR5134A)

(F)

8/2/04
Cmw

TCN Distillation

Ⓐ 0.25N NaOH

40.0 mLs NaOH (WC69074F, EM lot # 3321) →
2 Liters w/ DI. Make fresh each run.

Ⓑ TCN 10 ppm working stock (for LCS/MS/STANDARDS)

1.020 mL TCN Std. Stock #1 (WC69154D), Standardization
WC71016A → 100 mL w/ 0.25 NaOH (WC69160A),
Prepare fresh weekly. Store in amber glass @ 4°C.

Ⓒ TCN Low Level LCS:

Add 0.50 mL 10 ppm working Standard Stock (WC69160B)
to 50 mL DI. TV = 0.100 ppm. For soils, add 1.0g
Ottawa sand to 50.0 mL DI and 0.50 mL 10 ppm
Standard working stock (WC69160B). TV = 5.0 ppm.

Ⓓ TCN High Level LCS:

Add 2.0 mL 10 ppm Standard working stock (WC69160B)
to 50 mL DI. TV = 0.400 ppm. For soils, add 1.0g
Ottawa sand to 50 mL DI and 2.0 mL 10 ppm
Standard working stock (WC69160B). TV = 20.0 ppm.

Ⓔ TCN Matrix Spike

Add 0.50 mLs 10 ppm Standard Working Stock (WC69160B)
to 50.0 mL sample. TV = 0.100 ppm. For soils, 1.0g sample
to 50.0 mL DI and 0.50 mL 10 ppm Standard working
stock (WC69160B). TV = 50 ppm

Ⓕ TCN 10 ppm Reference Working Stock

Add 1.002 mL TCN Ref. Stock #2 (WC69154E) Standardization
WC71016B → 100 mLs 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 cc

8/3/04
CB

Ⓒ TDS
0.9120g
DI H₂O
bottle

8/3/04
GN

Ⓓ Por
Same

8/3/04
Cmw

Ⓔ 10%
Same

8/3/04
Cmw

Ⓕ Phend
Same

8/3/04
JST

Ⓖ Res'd Fr
- San

8/4/04
DK

Ⓗ Total S
400.00
DI 1
also

7/20/07 Received from VWB

AB

- (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 Ferric Indicator, Cat # H119-01, Mullinckroft Lot # E22433, CAS # 7720-76-7, 66-71-7. Store @ R.T. Expires 7/20/10

76265C).
PDI.
8/19/07

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, 7446-69-5. Store in flemmville cabinet. Expires 7/20/10
- (D) (1) x 500mL Silver Nitrate, 0.0192N, Cat # ^{LC22630-1} 7158-18, Lab Chem Lot # 7158-18, CAS # 7761-88-8. Store @ 4°C. Expires 6/13/08

diluted
+ fresh

mand + cl. Residual
(WC76286E) 0.1N
pires 2 weeks 8/3/07.

7/20/07
BB

- (E) 1000ppm TAN Stock #1: Standard Stock
To a tared 500mL volumetric flask, add:
1.26g KEN (WC76005C)
1.00g KOH (WC76005D)
~ 400 mL DI
Dissolve and bring to volume w/DI. Standardize and store @ 4°C in amber glass. Expires 7/20/08.

nd
in 1L w/DI

mand
(WC76285F) to
un and standardize

- (F) 1000ppm TAN Stock #2: Reference Stock
To a tared 500mL volumetric flask, add:
1.26g KEN (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

m 100 mL

7/20/07
BB

- (G) Rhodamine Indicator Sol'n
Dissolve 0.620g 5-(4-DMAB) Rhodamine (WC76015E) in 100mL acetone (WC76060F). Store in glass @ R.T. Expires 7/20/08

ton.
Store @ 4°C.

K981350.11
pires 7/1/08

Run #: 162839

Analyte: TDS SM2540C TOTAL DISSOLVED SOLIDS (TDS)

Printed: 06/30/08 10:09

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED RESULT</u>	<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
BLK5		1113438	WATER	3.00	1.0	10.0			06/24/2008		
SPKB		1113439	WATER	917	1.0	10.0	100.3		06/24/2008		
ESMP	R2844538	1110532	WATER	13600	1.0	10.0			06/24/2008		ASPB
ESMP	R2844538	1110981	WATER	18700	1.0	10.0			06/24/2008	RUN	ASPB
LDUP		1113440	WATER	17900	1.0	10.0		4.48	06/24/2008		
ESMP	R2844538	1111264	WATER	8530	1.0	10.0			06/24/2008	RUN	ASPB
ESMP	R2844538	1111265	WATER	8830	1.0	10.0			06/24/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER	8040	1.0	10.0			06/24/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER	7160	1.0	10.0			06/24/2008	RUN	ASPB

Records printed: 9

DATE PRINTED: 06/30/08

SOLIDS / GREASE & OIL REPORT

RUN #: 162839 ANALYSIS DATE: 06/24/08 ASSIGNED TO :

TEMPLATE: SM2540C TOTAL DISS SOLIDS (TDS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL				VOL (ml)	(mg/L)	FLASK/	LS	LS
			TYPE	GROSS(g)	TARE(g)	DIFF(g)			DISH ID	JOB#	LOC#
1	1113438	R28 0	MBLK	(88.6434-	88.6431)=	0.0003	*1E6 /100	=3.00	XX		
2	1113439	R28 0	LCS	(81.0845-	81.0295)=	0.0550	*1E6 /60	= 917	SS		
3	1110532	R2844538	ESMP	(81.6742-	81.6090)=	0.0652	*1E6 /4.8	= 13600	FF		
4	1110981	R2844538	ESMP	(89.0785-	88.9998)=	0.0787	*1E6 /4.2	= 18700	67		
5	1113440	R28 0	DUPE	(83.3091-	83.2340)=	0.0751	*1E6 /4.2	= 17900	XC		
6	1111264	R2844538	ESMP	(86.9180-	86.8156)=	0.1024	*1E6 /12	= 8530	30		
7	1111265	R2844538	ESMP	(84.3272-	84.2212)=	0.1060	*1E6 /12	= 8830	LL		
8	1111266	R2844538	ESMP	(82.7866-	82.6821)=	0.1045	*1E6 /13	= 8040	SD		
9	1111267	R2844538	ESMP	(87.9534-	87.8675)=	0.0859	*1E6 /12	= 7160	X5		

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 6/24/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 10:20

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: WC85158H

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)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
1	MB	XX	100		Gross (A) 1:	88.6434	Gross (A) 3:	3.00
					Gross (A) 2:	88.6443		
					B)	88.6431	A-B=	
2	LCS	SS	60		Gross (A) 1:	81.0845	Gross (A) 3:	916.67
					Gross (A) 2:	81.0848		
					B)	81.0295	A-B=	
3	44538	R-1110981	67	4.2	Gross (A) 1:	89.0792	Gross (A) 3:	18738.10
					Gross (A) 2:	89.0785		
					B)	88.9998	A-B=	
4	R-1110981 DUP	XC	4.2		Gross (A) 1:	83.3099	Gross (A) 3:	17880.95
					Gross (A) 2:	83.3091		
					B)	83.2340	A-B=	
5	R-1111264	30	12		Gross (A) 1:	86.9180	Gross (A) 3:	8533.33
					Gross (A) 2:	86.9200		
					B)	86.8156	A-B=	
6	R-1111265	LL	12		Gross (A) 1:	84.3272	Gross (A) 3:	8833.33
					Gross (A) 2:	84.3291		
					B)	84.2212	A-B=	
7	R-1111266	SD	13		Gross (A) 1:	82.7866	Gross (A) 3:	8038.46
					Gross (A) 2:	82.7873		
					B)	82.6821	A-B=	
8	R-1111267	X5	12		Gross (A) 1:	87.9534	Gross (A) 3:	7158.33
					Gross (A) 2:	87.9534		
					B)	87.8675	A-B=	
9	44175	R-1105206	N6	83	Gross (A) 1:	77.6315	Gross (A) 3:	709.64
					Gross (A) 2:	77.6360		
					B)	77.5726	A-B=	
10	R-1105207	OH	33.5		Gross (A) 1:	76.6956	Gross (A) 3:	2543.28
					Gross (A) 2:	76.6980		
					B)	76.6104	A-B=	
11	R-1105207 DUP	QW	34		Gross (A) 1:	84.1764	Gross (A) 3:	2547.06
					Gross (A) 2:	84.1766		
					B)	84.0898	A-B=	
12	R-1105208	51	89		Gross (A) 1:	87.9845	Gross (A) 3:	721.35
					Gross (A) 2:	87.9858		
					B)	87.9203	A-B=	
13	R-1105209	L6	82		Gross (A) 1:	82.2150	Gross (A) 3:	820.73
					Gross (A) 2:	82.2164		
					B)	82.1477	A-B=	

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: 6/24/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 10:20

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: WC85158H

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)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
14	R-1105210	IR	100		Gross (A) 1:	88.4498	Gross (A) 3:	442.00
					Gross (A) 2:	88.5408		
					B)	88.4056	A-B=	
15	R-1105211	A14	91		Gross (A) 1:	85.4194	Gross (A) 3:	550.55
					Gross (A) 2:	85.4199		
					B)	85.3693	A-B=	
16	R-1105212	PV	66		Gross (A) 1:	80.4496	Gross (A) 3:	1031.82
					Gross (A) 2:	80.4500		
					B)	80.3815	A-B=	
17	R-1105213	E1	100		Gross (A) 1:	82.0753	Gross (A) 3:	420.00
					Gross (A) 2:	82.0762		
					B)	82.0333	A-B=	
18	R-1105214	W10	67		Gross (A) 1:	86.6388	Gross (A) 3:	550.75
					Gross (A) 2:	86.6394		
					B)	86.6019	A-B=	
19	R-1105215	TT	100		Gross (A) 1:	88.7549	Gross (A) 3:	465.00
					Gross (A) 2:	88.7558		
					B)	88.7084	A-B=	
20	44575 R-1110332	VA	95		Gross (A) 1:	71.7117	Gross (A) 3:	596.84
					Gross (A) 2:	71.7116		
					B)	71.6549	A-B=	
21	R-1110332 DUP	37	96		Gross (A) 1:	84.0218	Gross (A) 3:	594.79
					Gross (A) 2:	84.0238		
					B)	83.9647	A-B=	
22	44576 R-1110336	GH	99.5		Gross (A) 1:	83.2612	Gross (A) 3:	583.92
					Gross (A) 2:	83.2618		
					B)	83.2031	A-B=	
23	44557 R-1110504	A1	100		Gross (A) 1:	80.1758	Gross (A) 3:	40.00
					Gross (A) 2:	80.1762		
					B)	80.1718	A-B=	
24	R-1110505	HOT	100		Gross (A) 1:	80.5802	Gross (A) 3:	3.00
					Gross (A) 2:	80.5809		
					B)	80.5799	A-B=	
25	R-1110506	17	100		Gross (A) 1:	81.6547	Gross (A) 3:	54.00
					Gross (A) 2:	81.6550		
					B)	81.6493	A-B=	
26	MB	ID	100		Gross (A) 1:	89.9334	Gross (A) 3:	3.00
					Gross (A) 2:	89.9340		
					B)	89.9331	A-B=	

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: 6/24/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 10:20

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: WC85158H

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	FG	58		Gross (A) 1:	81.8933	Gross (A) 3:	910.34	
					Gross (A) 2:	81.8936			
					B)	81.8405	A-B=		0.0528
28	44557	R-1110507	CC	100		Gross (A) 1:	84.0903	Gross (A) 3:	45.00
						Gross (A) 2:	84.0909		
						B)	84.0858	A-B=	
29	44175	R-1110710	WET	100		Gross (A) 1:	88.9053	Gross (A) 3:	445.00
						Gross (A) 2:	88.9056		
						B)	88.8608	A-B=	
30	44321	R-1106830	CV	13.5		Gross (A) 1:	79.5352	Gross (A) 3:	1903.70
						Gross (A) 2:	79.5355		
						B)	79.5095	A-B=	
31	44538	R-1110532	FF	4.8		Gross (A) 1:	81.6742	Gross (A) 3:	13583.33
						Gross (A) 2:	81.6749		
						B)	81.6090	A-B=	

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
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW

Date: 6/24/08

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:	WC85158H	6/5/08				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.

6/2/08
AB

Received from HACH

(A) (3) x 150 COD Digestion Solution Vials, 0-150 ppm.
Cat# 21258-15, HACH Lot# A8137, CAS #s
Same as WC85008D. Store in a cool, dark place.
Expires 5/2013

6/3/08
NM

(B) Ascorbic Acid - TPO4
-same as WC85154F, Exp. 1 week, 6/10/08

(C) Color Reagent - TPO4
-same as WC85154G, Exp. 6/13/09.

6/4/08
BB

Received from VWR

(D) (4) x 500g zinc Acetate Dihydrate, Cat# Zx0048-1,
EMD Lot# 41020703, CAS# 5970-45-6. Store @ RT.
Expires 6/4/2013

(E) (2) x 1L Water Hardness Buffer, Cat# 9200-32,
Ricca Lot# 1804583, CAS #s Same as WC85042D.
Store @ R.T. Expires 4/2009.

(F) (1) x 500g Acetic acid, fine granular, Cat# 0938-07,
JT Baker Lot# G13621, CAS# 50-81-7 Store @ R.T.
Expires 6/4/2013

(G) (4) x 500g Potassium Sulfate, fine crystal, Cat# 3278-01,
JT Baker Lot# E50157, CAS# 7778-80-5. Store @ R.T.
Expires 6/4/2013

6/5/08
EW

(H) TDS Reference
0.9140 g NaCl (WC76259E) diluted volumetrically
to 1L with DI. Store in plastic bottle @ 4°C.
TV = 914 mg/L exp 6/05/09. (4192)

6/6/08
RP

(I) Hypochlorite - NH₃
Same as WC85142F, Prepare fresh each run.

6/6/08
RP

(J) NH₃ Carrier / Diluent
Same as WC85139B. Prepared solution x3.

6/6/08
SBR

(K) TKN Digest Reagent
Same WC85143G. Exp 1 month 7/6/08

6/6/08 (A) Buffer
NM

TB a
- 940g
- 35.0g
- 20.0g
- 50.0g
Stir u

(B) Color
- Same

(C) Buf
- Same

(D) Buffer
- same

6/6/08 Received
BB (E) ³⁰ 2
Cat #
WC85

(F) (3) x
HACH
Store

6/6/08 Received
BB (G) (12)
CPI

Received
(H) (1) x
VWR
& R.

6/9/08 (I) TS/TV
0.3001g
1 Liter w
Expires

Run #: 162594

Analyte: TDS SM2540C TOTAL DISSOLVED SOLIDS (TDS)

Printed: 06/20/08 16:22

R44538

2 runs

R44370

R44321

3 copies

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLKS		1111153	WATER	7.00	1.0	10.0			06/18/2008		
SPKB		1111154	WATER	912	1.0	10.0	99.8		06/18/2008		
ESMP	R2842944	1085907	WATER	2720	1.0	10.0			06/18/2008	RUN	2
ESMP	R2844538	1109708	WATER	4.00	1.0	10.0			06/18/2008		ASPB
ESMP	R2843633	1096162	WATER	874	1.0	10.0			06/18/2008		1
ESMP	R2843633	1096164	WATER	669	1.0	10.0			06/18/2008		1

Records printed: 6

Reviewed & Approved

By: CL

Date: 6/25/08

DATE PRINTED: 06/20/08

SOLIDS / GREASE & OIL REPORT

RUN #: 162594 ANALYSIS DATE: 06/18/08 ASSIGNED TO :

TEMPLATE: SM2540C TOTAL DISS SOLIDS (TDS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL				VOL (ml)	(mg/L)	FLASK/	LS	LS
			TYPE	GROSS(g)	TARE(g)	DIFF(g)			DISH ID	JOB#	LOC#
1	1111153	R28 0	MBLK	(85.1381-	85.1374)=	0.0007	*1E6 /100	=7.00	G		
2	1111154	R28 0	LCS	(88.6975-	88.6437)=	0.0538	*1E6 /59	= 912	XX		
3	1085907	R2842944	ESMP	(87.9552-	87.8683)=	0.0869	*1E6 /32	= 2720	X5		
4	1109708	R2844538	ESMP	(83.2040-	83.2036)=	0.0004	*1E6 /100	=4.00	GH		
5	1096162	R2843633	ESMP	(88.7809-	88.7092)=	0.0717	*1E6 /82	= 874	TT		
6	1096164	R2843633	ESMP	(80.6480-	80.5811)=	0.0669	*1E6 /100	= 669	HOT		

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: 6/18/08

Time: 9:30

TS _____ TDS X TSS _____

LCS Lot: WC85158H

TV: 914 Balance ID: AE240

Filter Lot: WC185154B 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	G	100		Gross (A) 1:	85.1381	Gross (A) 3:	7.00
					Gross (A) 2:	85.1381		
					B)	85.1374	A-B=	
2	LCS	XX	59		Gross (A) 1:	88.6975	Gross (A) 3:	911.86
					Gross (A) 2:	88.6976		
					B)	88.6437	A-B=	
3	43625	R-1096087	63	5	Gross (A) 1:	87.3046	Gross (A) 3:	29820.00
					Gross (A) 2:	87.3048		
					B)	87.1555	A-B=	
4	R-1096087 DUP	V9	5		Gross (A) 1:	81.7784	Gross (A) 3:	29880.00
					Gross (A) 2:	81.7784		
					B)	81.6290	A-B=	
5	42262	R-1076273	30	74	Gross (A) 1:	86.8707	Gross (A) 3:	736.49
					Gross (A) 2:	86.8709		
					B)	86.8162	A-B=	
6	R-1076274	XC	100		Gross (A) 1:	83.2618	Gross (A) 3:	278.00
					Gross (A) 2:	83.2618		
					B)	83.2340	A-B=	
7	44370	R-1108856	J1	100	Gross (A) 1:	84.3539	Gross (A) 3:	312.00
					Gross (A) 2:	84.3538		
					B)	84.3226	A-B=	
8	R-1108857	TY	100		Gross (A) 1:	80.1958	Gross (A) 3:	205.00
					Gross (A) 2:	80.1951		
					B)	80.1746	A-B=	
9	R-1108857 DUP	LL	100		Gross (A) 1:	84.2418	Gross (A) 3:	203.00
					Gross (A) 2:	84.2414		
					B)	84.2211	A-B=	
10	44500	R-1109222	OO	100	Gross (A) 1:	82.1286	Gross (A) 3:	43.00
					Gross (A) 2:	82.1286		
					B)	82.1243	A-B=	
11	44505	R-1109390	X4	100	Gross (A) 1:	81.0472	Gross (A) 3:	164.00
					Gross (A) 2:	81.0470		
					B)	81.0306	A-B=	
12	R-1109391	73	100		Gross (A) 1:	85.5843	Gross (A) 3:	200.00
					Gross (A) 2:	85.5842		
					B)	85.5642	A-B=	
13	42262	R-1076280	OH	100	Gross (A) 1:	76.6419	Gross (A) 3:	303.00
					Gross (A) 2:	76.6417		
					B)	76.6114	A-B=	

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

Pipet: DISPOSABLE

Date: 6/18/08

Time: 9:30

TS _____ TDS X TSS _____

LCS Lot: WC85158H

TV: 914 Balance ID: AE240

Filter Lot: WC185154B

Oven ID: 1

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)	
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:		
14	R-1076282	PV	100		Gross (A) 1:	80.4158	Gross (A) 3:	329.00	
					Gross (A) 2:	80.4156			
					B)	80.3827	A-B=		0.0329
15	43448	R-1093572	51	66		Gross (A) 1:	88.0082	Gross (A) 3:	1315.15
						Gross (A) 2:	88.0070		
						B)	87.9202	A-B=	
16	44173	R-1105187	VI	100		Gross (A) 1:	88.1627	Gross (A) 3:	544.00
						Gross (A) 2:	88.1617		
						B)	88.1073	A-B=	
17	R-1105187 DUP	W10	100			Gross (A) 1:	86.6572	Gross (A) 3:	544.00
						Gross (A) 2:	86.6560		
						B)	86.6016	A-B=	
18	R-1105188	FE	100			Gross (A) 1:	86.4204	Gross (A) 3:	516.00
						Gross (A) 2:	86.4199		
						B)	86.3683	A-B=	
19	R-1105189	80	100			Gross (A) 1:	85.9979	Gross (A) 3:	587.00
						Gross (A) 2:	85.9972		
						B)	85.9385	A-B=	
20	R-1105190	SS	100			Gross (A) 1:	81.0884	Gross (A) 3:	577.00
						Gross (A) 2:	81.0884		
						B)	81.0307	A-B=	
21	R-1105191	SD	100			Gross (A) 1:	82.7367	Gross (A) 3:	534.00
						Gross (A) 2:	82.7366		
						B)	82.6832	A-B=	
22	R-1105192	NN	100			Gross (A) 1:	87.2725	Gross (A) 3:	468.00
						Gross (A) 2:	87.2721		
						B)	87.2253	A-B=	
23	44321	R-1106785	17	100		Gross (A) 1:	81.6746	Gross (A) 3:	249.00
						Gross (A) 2:	81.6746		
						B)	81.6497	A-B=	
24	R-1106789	67	100			Gross (A) 1:	89.0338	Gross (A) 3:	324.00
						Gross (A) 2:	89.0335		
						B)	89.0011	A-B=	
25	R-1106792	VA	100			Gross (A) 1:	71.7174	Gross (A) 3:	610.00
						Gross (A) 2:	71.7171		
						B)	71.6561	A-B=	
26	MB	IR	100			Gross (A) 1:	88.4065	Gross (A) 3:	3.00
						Gross (A) 2:	88.4065		
						B)	88.4062	A-B=	

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: 6/18/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 9:30

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: WC85158H

TV: 914 Balance ID: AE240

Filter Lot: WC185154B

Oven ID: 1

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)	
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:		
27	LCS	L6	63		Gross (A) 1:	82.2061	Gross (A) 3:	903.17	
					Gross (A) 2:	82.2060			
					B)	82.1491	A-B=		0.0569
28	R-1106829	QW	99		Gross (A) 1:	84.1513	Gross (A) 3:	609.09	
					Gross (A) 2:	84.1513			
					B)	84.0910	A-B=		0.0603
29	43630	R-1096118	E1	88	Gross (A) 1:	82.1112	Gross (A) 3:	82.1058	997.73
					Gross (A) 2:	82.1066			
					B)	82.0180	A-B=	0.0878	
30	R-1096119	N6	85		Gross (A) 1:	77.6793	Gross (A) 3:		1238.82
					Gross (A) 2:	77.6787			
					B)	77.5734	A-B=	0.1053	
31	R-1096120	A14	64		Gross (A) 1:	85.4587	Gross (A) 3:		1373.44
					Gross (A) 2:	85.4587			
					B)	85.3708	A-B=	0.0879	
32	42944	R-1085907	X5	32	Gross (A) 1:	87.9552	Gross (A) 3:		2715.63
					Gross (A) 2:	87.9552			
					B)	87.8683	A-B=	0.0869	
33	44538	R-1109708	GH	100	Gross (A) 1:	83.2040	Gross (A) 3:		4.00
					Gross (A) 2:	83.2040			
					B)	83.2036	A-B=	0.0004	
34	43633	R-1096162	TT	82	Gross (A) 1:	88.7823	Gross (A) 3:		874.39
					Gross (A) 2:	88.7809			
					B)	88.7092	A-B=	0.0717	
35	R-1096164	HOT	100		Gross (A) 1:	80.6487	Gross (A) 3:		669.00
					Gross (A) 2:	80.6480			
					B)	80.5811	A-B=	0.0669	

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: 6/18/08

Drying Tins: Dish 104°C: Weight Actual
 Crucible 550°C: Dish 550°C: **s Weights (s):** 99.9991 g 100 g
 Dish 180°C: X G/O Dishes: g g

ID Number	Weight	
G	85.1374	85.1374
XX	88.6437	88.6438
63	87.1555	87.1555
V9	81.6291	81.6290
30	86.8162	86.8163
XC	83.2342	83.2340
J1	84.3227	84.3226
TY	80.1748	80.1746
LL	84.2212	84.2211
OO	82.1244	82.1243
X4	81.0309	81.0306
73	85.5644	85.5642
OH	76.6115	76.6114
PV	80.3829	80.3827
51	87.9204	87.9202
VI	88.1074	88.1073
HOT	80.5813	80.5811
TT	88.7093	88.7092

ID Number	Weight	
GH	83.2036	83.2036
X5	87.8683	87.8685
A14	85.3709	85.3708
N6	77.5736	77.5734
E1	82.0181	82.0180
QW	84.0912	84.0910
L6	82.1493	82.1491
IR	88.4064	88.4062
VA	71.6563	71.6561
67	89.0016	89.0011
17	81.6499	81.6497
NN	87.2256	87.2253
SD	82.6837	82.6832
SS	81.0310	81.0307
FE	86.3685	86.3683
W10	86.6018	86.6016
80	85.9388	85.9385
<i>EW 6/20/08</i>		

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW

Date: 6/18/08

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:	WC85158H	6/5/08				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.

6/2/08
AB
Received from HACH
(A) (3) x 150 COD Digestion Solution Vials, 0-150 ppm.
Cat# 21251-15, HACH Lot# AB137, CAS#s
Same as WC85008D. Store in a cool, dark place.
Expires 5/2013

6/3/08
Nm
(B) Ascorbic Acid - TPO4
-same as WC85154F. Exp. 1 week, 6/10/08

(C) Color Reagent - TPO4
-same as WC85154G. Exp. 6/3/09.

6/4/08
BB
Received from VWR
(D) (4) x 500g zinc acetate Dihydrate, Cat# 2X0048-1,
EMD Lot# 41020703, CAS# 5970-45-6. Store @ RT.
Expires 6/4/2013

(E) (2) x 1L Water Hardness Buffer, Cat# 7200-32,
Ricca Lot# 1804583, CAS#s Same as WC85042D.
Store @ R.T. Expires 4/2009

(F) (1) x 500g Ascorbic acid, fine granular, Cat# 0938-07,
JT Baker Lot# G13621, CAS# 50-81-7 Store @ R.T.
Expires 6/4/2013

(G) (4) x 500g Potassium sulfate, fine crystal, Cat# 3278-01,
JT Baker Lot# E50157, CAS# 7778-80-5. Store @ R.T.
Expires 6/4/2013

6/5/08
EW
(H) TDS Reference
0.9140 g NaCl (WC76259E) diluted volumetrically
to 1L with DI. Store in plastic bottle @ 4°C
TV = 914 mg/L exp 6/05/09. (4192)

6/6/08
RP
(I) Hypochlorite - NH₃
Same as WC85142F. Prepare fresh each run.

6/6/08
RP
(J) NH₃ Carrier / Diluent
Same as WC85139B. Prepared solution v3.

6/6/08
SBR
(K) TKN Digest Reagent
Same WC85143G. Exp 1 month 7/6/08

6/6/08 (A) Buffer
Nm
To a
-940g
-35.0g
-20.0g
-50.0g
Stir u

(B) Color
-sam

(C) Buf
-sam

(D) Buffer
-same

6/6/08
BB
Received
(E) ³³ ~~1192~~ 2
Cat#
WC85

(F) (3) x
HACH
Store

6/6/08
AB
Received
(G) (12)
CPI

Received
(H) (1) x
VWR
@ R.

6/9/08 (I) TS/TV
0.3001g
1 Liter w
Expires

Run #: 162973

Analyte: TDS SM2540C TOTAL DISSOLVED SOLIDS (TDS)

Printed: 07/02/08 08:00

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLK5		1113607	WATER	2.00	1.0	10.0			06/26/2008		
SPKB		1113608	WATER	918	1.0	10.0	100.4		06/26/2008		
ESMP	R2843634	1096171	WATER	696	1.0	10.0			06/26/2008		1
ESMP	R2844538	1111763	WATER	7280	1.0	10.0			06/26/2008	RUN	ASPB
LDUP		1113609	WATER	7420	1.0	10.0		1.87	06/26/2008		
ESMP	R2844538	1111764	WATER	8650	1.0	10.0			06/26/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER	13700	1.0	10.0			06/26/2008	RUN	ASPB
ESMP	R2844650	1112065	WATER	8310	1.0	10.0			06/26/2008	RUN	ASPB
ESMP	R2844650	1112066	WATER	10800	1.0	10.0			06/26/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER	5.00	1.0	10.0			06/26/2008	RUN	ASPB

Records printed: 10

ANALYTE:G:\STARLIMS\ASBAR.RP1

Page 1

02202

DATE PRINTED: 07/02/08

SOLIDS / GREASE & OIL REPORT

RUN #: 162973 ANALYSIS DATE: 06/26/08 ASSIGNED TO :

TEMPLATE: SM2540C TOTAL DISS SOLIDS (TDS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL						FLASK/	LS	LS
			TYPE	GROSS(g)	TARE(g)	DIFF(g)	VOL (ml)	(mg/L)	DISH ID	JOB#	LOC#
1	1113607	R28 0	MBLK	(79.2124-	79.2122)=	0.0002	*1E6 /100	=2.00	VAN		
2	1113608	R28 0	LCS	(82.5078-	82.4564)=	0.0514	*1E6 /56	= 918	T5		
3	1096171	R2843634	ESMP	(85.7887-	85.7344)=	0.0543	*1E6 /78	= 696	72		
4	1111763	R2844538	ESMP	(87.1763-	87.1108)=	0.0655	*1E6 /9	= 7280	58		
5	1113609	R28 0	DUPE	(90.1285-	90.0610)=	0.0675	*1E6 /9.1	= 7420	62		
6	1111764	R2844538	ESMP	(73.8380-	73.7428)=	0.0952	*1E6 /11	= 8650	H10		
7	1111765	R2844538	ESMP	(80.4726-	80.3877)=	0.0849	*1E6 /6.2	= 13700	AS		
8	1112065	R2844650	ESMP	(89.1941-	89.1068)=	0.0873	*1E6 /10.5	= 8310	ED		
9	1112066	R2844650	ESMP	(85.1173-	85.0490)=	0.0683	*1E6 /6.3	= 10800	A10		
10	1112067	R2844650	ESMP	(85.6918-	85.6913)=	0.0005	*1E6 /100	=5.00	GY		

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 6/26/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 13:00

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: WC85158H

TV: 914 mg/L 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)	
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:		
1	MB	VAN	100		Gross (A) 1:	79.2126	Gross (A) 3:	2.00	
					Gross (A) 2:	79.2124			
					B)	79.2122	A-B=		0.0002
2	LCS	T5	56		Gross (A) 1:	82.5078	Gross (A) 3:	917.86	
					Gross (A) 2:	82.5078			
					B)	82.4564	A-B=		0.0514
3	44503	R-1109355	E16	100		Gross (A) 1:	89.2946	Gross (A) 3:	171.00
						Gross (A) 2:	89.2943		
						B)	89.2772	A-B=	
4	R-1109356	A2	100			Gross (A) 1:	86.7087	Gross (A) 3:	353.00
						Gross (A) 2:	86.7085		
						B)	86.6732	A-B=	
5	R-1109356 DUP	FT	100			Gross (A) 1:	86.2325	Gross (A) 3:	355.00
						Gross (A) 2:	86.2320		
						B)	86.1965	A-B=	
6	44621	R-1111407	81	100		Gross (A) 1:	86.8087	Gross (A) 3:	375.00
						Gross (A) 2:	86.8078		
						B)	86.7703	A-B=	
7	R-1111638	RO	100			Gross (A) 1:	87.8611	Gross (A) 3:	44.00
						Gross (A) 2:	87.8609		
						B)	87.8565	A-B=	
8	R-1111639	GA	100			Gross (A) 1:	80.2977	Gross (A) 3:	130.00
						Gross (A) 2:	80.2970		
						B)	80.2840	A-B=	
9	R-1111640	ER	100			Gross (A) 1:	81.9594	Gross (A) 3:	179.00
						Gross (A) 2:	81.9581		
						B)	81.9392	A-B=	
10	R-1111726	55	100			Gross (A) 1:	87.2601	Gross (A) 3:	481.00
						Gross (A) 2:	87.2586		
						B)	87.2105	A-B=	
11	R-1111727	WS	100			Gross (A) 1:	83.5768	Gross (A) 3:	489.00
						Gross (A) 2:	83.5761		
						B)	83.5272	A-B=	
12	R-1111727 DUP	X7	100			Gross (A) 1:	86.7996	Gross (A) 3:	485.00
						Gross (A) 2:	86.7982		
						B)	86.7497	A-B=	
13	44305	R-1106639	CO	100		Gross (A) 1:	81.5341	Gross (A) 3:	243.00
						Gross (A) 2:	81.5339		
						B)	81.5096	A-B=	

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: 6/26/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 13:00

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: WC85158H

TV: 914 mg/L 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)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
14	R-1106640	T4	100		Gross (A) 1:	83.3057	Gross (A) 3:	335.00
					Gross (A) 2:	83.3054		
					B)	83.2719	A-B=	
15	R-1106641	75	68		Gross (A) 1:	86.3421	Gross (A) 3:	823.53
					Gross (A) 2:	86.3417		
					B)	86.2857	A-B=	
16	R-1106642	OO	100		Gross (A) 1:	80.6275	Gross (A) 3:	285.00
					Gross (A) 2:	80.6274		
					B)	80.5989	A-B=	
17	R-1106643	F8	84		Gross (A) 1:	82.7962	Gross (A) 3:	596.43
					Gross (A) 2:	82.7955		
					B)	82.7454	A-B=	
18	R-1106644	54	91		Gross (A) 1:	87.7548	Gross (A) 3:	546.15
					Gross (A) 2:	87.7543		
					B)	87.7046	A-B=	
19	R-1106645	A5	80		Gross (A) 1:	85.6855	Gross (A) 3:	721.25
					Gross (A) 2:	85.6844		
					B)	85.6267	A-B=	
20	R-1106646	45	58		Gross (A) 1:	86.6220	Gross (A) 3:	894.83
					Gross (A) 2:	86.6212		
					B)	86.5693	A-B=	
21	R-1106647	P1	100		Gross (A) 1:	81.0585	Gross (A) 3:	332.00
					Gross (A) 2:	81.0583		
					B)	81.0251	A-B=	
22	R-1106648	13	100		Gross (A) 1:	80.8621	Gross (A) 3:	194.00
					Gross (A) 2:	80.8617		
					B)	80.8423	A-B=	
23	R-1106649	50	90		Gross (A) 1:	84.7647	Gross (A) 3:	534.44
					Gross (A) 2:	84.7643		
					B)	84.7162	A-B=	
24	R-1106650	A4	82		Gross (A) 1:	86.3942	Gross (A) 3:	735.37
					Gross (A) 2:	86.3936		
					B)	86.3333	A-B=	
25	MB	DW	100		Gross (A) 1:	84.1802	Gross (A) 3:	3.00
					Gross (A) 2:	84.1800		
					B)	84.1797	A-B=	
26	LCS	F4	58		Gross (A) 1:	83.6831	Gross (A) 3:	903.45
					Gross (A) 2:	83.6830		
					B)	83.6306	A-B=	

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: 6/26/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 13:00

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: WC85158H

TV: 914 mg/L 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	44621	R-1111897	BB	100	<i>see bottom of page</i>	Gross (A) 1:	82.1615	Gross (A) 3:	82.1587	154.00
						Gross (A) 2:	82.1603	4:	82.1587	
						B)	82.1433	A-B=	0.0154	
28	R-1111898	ANT	100		Gross (A) 1:	82.7196	Gross (A) 3:		95.00	
					Gross (A) 2:	82.7193				
					B)	82.7098	A-B=	0.0095		
29	R-1111899	ZX	100		Gross (A) 1:	81.8734	Gross (A) 3:		251.00	
					Gross (A) 2:	81.8724				
					B)	81.8473	A-B=	0.0251		
30	R-1111900	CN	100		Gross (A) 1:	90.2902	Gross (A) 3:		3.00	
					Gross (A) 2:	90.2902				
					B)	90.2899	A-B=	0.0003		
31	44644	R-1111970	A	100		Gross (A) 1:	85.1723	Gross (A) 3:		253.00
						Gross (A) 2:	85.1718			
						B)	85.1465	A-B=	0.0253	
32	44621	R-1111983	F16	100		Gross (A) 1:	84.3809	Gross (A) 3:		186.00
						Gross (A) 2:	84.3799			
						B)	84.3613	A-B=	0.0186	
33	R-1111983 DUP	KK	100			Gross (A) 1:	80.7470	Gross (A) 3:		189.00
						Gross (A) 2:	80.7461			
						B)	80.7272	A-B=	0.0189	
34	R-1111984	UI	100			Gross (A) 1:	87.6975	Gross (A) 3:		170.00
						Gross (A) 2:	87.6965			
						B)	87.6795	A-B=	0.0170	
35	R-1111985	YU	100			Gross (A) 1:	85.0682	Gross (A) 3:		273.00
						Gross (A) 2:	85.0678			
						B)	85.0405	A-B=	0.0273	
36	R-1111986	KL	100			Gross (A) 1:	79.0188	Gross (A) 3:		5.00
						Gross (A) 2:	79.0188			
						B)	79.0183	A-B=	0.0005	
37	R-1111987	DF	100			Gross (A) 1:	78.2582	Gross (A) 3:		53.00
						Gross (A) 2:	78.2580			
						B)	78.2527	A-B=	0.0053	
38	43634	R-1096170	TIE	66		Gross (A) 1:	81.2733	Gross (A) 3:		3425.76
						Gross (A) 2:	81.2417			
						B)	81.0156	A-B=	0.2261	
39	R-1096171	72	78			Gross (A) 1:	85.7896	Gross (A) 3:		696.15
						Gross (A) 2:	85.7887			
						B)	85.7344	A-B=	0.0543	

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

** Weighed 4th time but could not put value in excel. 4th weight same as 3rd*

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 6/26/08

Method: 160.2 / SM20 2540D

Pipet: DISPOSABLE

Time: 13:00

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: WC85158H TV: 914 mg/L 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)		
40	44538	R-1111763	58	9	Gross (A) 1:	87.1815	Gross (A) 3:	87.1763	7277.78	
					Gross (A) 2:	87.1786				
					B)	87.1108	A-B=	0.0655		
41	R-1111763 DUP	62	9.1		Gross (A) 1:	90.1337	Gross (A) 3:	90.1285	7417.58	
					Gross (A) 2:	90.1296				
					B)	90.0610	A-B=	0.0675		
42	R-1111764	H10	11		Gross (A) 1:	73.8385	Gross (A) 3:		8654.55	
					Gross (A) 2:	73.8380				
					B)	73.7428	A-B=	0.0952		
43	R-1111765	AS	6.2		Gross (A) 1:	80.4729	Gross (A) 3:		13693.55	
					Gross (A) 2:	80.4726				
					B)	80.3877	A-B=	0.0849		
44	44650	R-1112065	ED	10.5		Gross (A) 1:	89.1941	Gross (A) 3:		8314.29
						Gross (A) 2:	89.1947			
						B)	89.1068	A-B=	0.0873	
45	R-1112066	A10	6.3			Gross (A) 1:	85.1199	Gross (A) 3:		10841.27
						Gross (A) 2:	85.1173			
						B)	85.0490	A-B=	0.0683	
46	R-1112067	GY	100			Gross (A) 1:	85.6918	Gross (A) 3:		5.00
						Gross (A) 2:	85.6918			
						B)	85.6913	A-B=	0.0005	
47						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		
48						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		
49						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		
50						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		
51						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		
52						Gross (A) 1:		Gross (A) 3:		
						Gross (A) 2:				
						B)		A-B=		

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: 6/26/08

Drying Tins: _____ Dish 104°C: _____ Weight Actual
 Crucible 550°C: _____ Dish 550°C: _____ s Weights (s): 99.995 g 1 g
 Dish 180°C: X G/O Dishes: _____ _____ g _____ g

ID Number	Weight	
A10	85.0490	85.0490
GY	85.6913	85.6914
ED	89.1068	89.1070
AS	80.3878	80.3877
62	90.0610	90.0610
H10	73.7430	73.7428
58	87.1109	87.1108
72	85.7345	85.7344
TIE	81.0156	81.0157
DF	78.2527	78.2529
KL	79.0183	79.0183
YU	85.0405	85.0405
UI	87.6795	87.6796
KK	80.7273	80.7272
F16	84.3614	84.3613
A	85.1465	85.1465
CN	90.2899	90.2900
ZX	81.8474	81.8473
ANT	82.7099	82.7098
BB	82.1434	82.1433
F4	83.6306	83.6307
DW	84.1798	84.1797
A4	86.3333	86.3334

ID Number	Weight	
F8	82.7455	82.7454
54	87.7046	87.7046
A5	85.6267	85.6267
45	86.5693	86.5694
P1	81.0251	81.0252
13	80.8424	80.8423
50	84.7163	84.7162
VAN	79.2122	79.2122
T5	82.4565	82.4564
E16	89.2772	89.2772
A2	86.6734	86.6732
FT	86.1967	86.1965
81	86.7705	86.7703
RO	87.8568	87.8565
GA	80.2842	80.2840
ER	81.9392	81.9392
55	87.2106	87.2105
WS	83.5273	83.5272
X7	86.7497	86.7497
CO	81.5097	81.5096
T4	83.2720	83.2719
75	86.2857	86.2857
OO	80.5993	80.5989

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW

Date: 6/26/08

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:	WC85158H	6/5/08				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.

6/2/08
AB

Received from HACH

(A) (3) x 150 COD Digestion Solution Vials, 0-150 ppm.
Cat# 21258-15, HACH Lot# A8137, CAS #s
Same as WC85008D. Store in a cool, dark place.
Expires 5/2013

6/3/08
Nm

(B) Ascorbic Acid - TPO4

-same as WC85154F. Exp. 1 week, 6/10/08

(C) Color Reagent - TPO4

-same as WC85154G. Exp. 6/3/09.

6/4/08
BB

Received from VWR

(D) (4) x 500g zinc acetate Dihydrate, Cat# 2X0048-1,
EMD Lot# 41020703, CAS# 5970-45-6. Store @ RT.
Expires 6/4/2013

(E) (2) x 1L Water Hardness Buffer, Cat# 9200-32,
Ricca Lot# 1804583, CAS #s Same as WC85042D.
Store @ R.T. Expires 4/2009.

(F) (1) x 500g Ascorbic acid, fine granular, Cat# 0938-07,
JT Baker Lot# G13621, CAS# 50-81-7 Store @ R.T.
Expires 6/4/2013

(G) (4) x 500g Potassium sulfate, fine crystal, Cat# 3278-01,
JT Baker Lot# E50157, CAS# 7778-80-5. Store @ R.T.
Expires 6/4/2013

6/5/08
EW

(H) TDS Reference

0.9140 g NaCl (WC76259E) diluted volumetrically
to 1L with DI. Store in plastic bottle @ 4°C.
TV = 914 mg/L exp 6/05/09. (4192)

6/6/08
RF

(I) Hypochlorite - NH₃

Same as WC85142F. Prepare fresh each run.

6/6/08
RF

(J) NH₃ Carrier / Diluent

Same as WC85139B. Prepared solution v3.

6/6/08
SBR

(K) TKN Digest Reagent

Same WC85143G. Exp 1 month 7/6/08

6/6/08 (A) Buffer

Nm

To a
- 940g
- 35.0
- 20.0
- 50.0
Stir u

(B) Color

-same

(C) Buf

-same

(D) Buffer

-same

6/6/08
BB

Received

(E) ^{BB} (2)
Cat #
WC85

(F) (3) x

HACH
Store

6/6/08
AB

Received

(G) (12)
CPI

Received

(H) (1) x
VWR
@ R.

6/9/08 (I) TS/TV

0.3001g
1 Liter DI
Expires

R44321
 R44538
 2/08/08

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844321	1106829	WATER	3.68	1.0	1.00			06/28/08		ASPB
ESMP	R2844321	1106829	WATER	4.12	1.0	1.00			06/28/08		ASPB
ESMP	R2844321	1106829	WATER	4.19	1.0	1.00			06/28/08		ASPB
ESMP	R2844321	1106829	WATER	4.16	1.0	1.00			06/28/08		ASPB
CHK5		1113347	WATER	20.1	1.0	1.00	100.4		06/28/08		
CHK5		1113347	WATER	21.2	1.0	1.00	106.0		06/28/08		
CHK5		1113347	WATER	21.1	1.0	1.00	105.5		06/28/08		
CHK5		1113347	WATER	20.8	1.0	1.00	104.1		06/28/08		
BLK4		1113348	WATER	-0.137	1.0	1.00			06/28/08		
BLK4		1113348	WATER	-0.0680	1.0	1.00			06/28/08		
BLK4		1113348	WATER	-0.173	1.0	1.00			06/28/08		
BLK4		1113348	WATER	-0.115	1.0	1.00			06/28/08		
SPKB		1113349	WATER	9.23	1.0	1.00	92.3		06/28/08		
SPKB		1113349	WATER	10.3	1.0	1.00	102.9		06/28/08		
SPKB		1113349	WATER	10.5	1.0	1.00	104.7		06/28/08		
SPKB		1113349	WATER	10.3	1.0	1.00	103.2		06/28/08		
ESMP	R2844538	1109708	WATER	0.410	1.0	1.00			06/28/08		ASPB
ESMP	R2844538	1109708	WATER	0.366	1.0	1.00			06/28/08		ASPB
ESMP	R2844538	1109708	WATER	0.359	1.0	1.00			06/28/08		ASPB
ESMP	R2844538	1109708	WATER	0.358	1.0	1.00			06/28/08		ASPB
ESMP	R2844175	1105198	WATER	1.97	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105198	WATER	2.10	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105198	WATER	2.47	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105198	WATER	2.43	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105199	WATER	2.26	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105199	WATER	2.35	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105199	WATER	2.40	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105199	WATER	2.40	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105200	WATER	1.63	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105200	WATER	1.60	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105200	WATER	1.62	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105200	WATER	1.66	1.0	1.00			06/28/08	RUN	2
LDUP		1113350	WATER	1.57	1.0	1.00		3.62	06/28/08		
LDUP		1113350	WATER	1.61	1.0	1.00		0.75	06/28/08		
LDUP		1113350	WATER	1.69	1.0	1.00		3.99	06/28/08		
LDUP		1113350	WATER	1.93	1.0	1.00		14.99	06/28/08		
SPK1		1113351	WATER	11.5	1.0	1.00	98.6		06/28/08		
SPK1		1113351	WATER	12.0	1.0	1.00	103.6		06/28/08		
SPK1		1113351	WATER	11.9	1.0	1.00	102.9		06/28/08		
SPK1		1113351	WATER	12.2	1.0	1.00	105.3		06/28/08		
ESMP	R2844175	1105201	WATER	8.36	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105201	WATER	8.55	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105201	WATER	8.55	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	1105201	WATER	8.83	1.0	1.00			06/28/08	RUN	2
ESMP	R2844173	1105193	WATER	2.70	1.0	1.00			06/28/08		2
ESMP	R2844173	1105193	WATER	2.75	1.0	1.00			06/28/08		2
ESMP	R2844173	1105193	WATER	2.61	1.0	1.00			06/28/08		2
ESMP	R2844173	1105193	WATER	2.45	1.0	1.00			06/28/08		2
ESMP	R2844174	1105195	WATER	3.67	1.0	1.00			06/28/08	RUN	2
ESMP	R2844174	1105195	WATER	3.92	1.0	1.00			06/28/08	RUN	2
ESMP	R2844174	1105195	WATER	3.72	1.0	1.00			06/28/08	RUN	2

Reviewed & Approved

By: *Chubby*

Date: *7/2/08*

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844174	- 1105195	WATER	3.86	1.0	1.00			06/28/08	RUN	2
ESMP	R2844174	- 1105196	WATER	5.31	1.0	1.00			06/28/08	RUN	2
ESMP	R2844174	- 1105196	WATER	5.37	1.0	1.00			06/28/08	RUN	2
ESMP	R2844174	- 1105196	WATER	5.48	1.0	1.00			06/28/08	RUN	2
ESMP	R2844174	- 1105196	WATER	5.48	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	- 1105202	WATER	5.54	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	- 1105202	WATER	5.63	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	- 1105202	WATER	5.72	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	- 1105202	WATER	5.84	1.0	1.00			06/28/08	RUN	2
ESMP	R2844175	- 1105203	WATER	3.69	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105203	WATER	3.68	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105203	WATER	4.04	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105203	WATER	4.37	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105204	WATER	13.8	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105204	WATER	13.3	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105204	WATER	13.3	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105204	WATER	14.2	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105205	WATER	28.6	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105205	WATER	29.6	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105205	WATER	29.0	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105205	WATER	29.6	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105206	WATER	3.15	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105206	WATER	3.22	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105206	WATER	3.30	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105206	WATER	3.25	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105207	WATER	7.64	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105207	WATER	7.74	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105207	WATER	8.13	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105207	WATER	8.31	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105208	WATER	3.72	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105208	WATER	3.62	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105208	WATER	3.76	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105209	WATER	12.4	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105209	WATER	13.2	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105209	WATER	13.0	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105209	WATER	13.0	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105210	WATER	1.51	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105210	WATER	1.37	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105210	WATER	1.48	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105210	WATER	1.49	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105211	WATER	1.44	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105211	WATER	1.55	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105211	WATER	1.72	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105211	WATER	1.67	1.0	1.00			06/29/08	RUN	2
LDUP		- 1113352	WATER	1.44	1.0	1.00		0.07	06/29/08		
LDUP		- 1113352	WATER	1.66	1.0	1.00		6.61	06/29/08		
LDUP		- 1113352	WATER	1.74	1.0	1.00		1.21	06/29/08		
LDUP		- 1113352	WATER	1.76	1.0	1.00		5.08	06/29/08		
SPK1		- 1113353	WATER	11.2	1.0	1.00	97.5		06/29/08		
SPK1		- 1113353	WATER	11.6	1.0	1.00	100.2		06/29/08		
SPK1		- 1113353	WATER	11.5	1.0	1.00	98.2		06/29/08		
SPK1		- 1113353	WATER	11.4	1.0	1.00	97.8		06/29/08		
ESMP	R2844175	- 1105212	WATER	4.92	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105212	WATER	5.07	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105212	WATER	5.16	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	- 1105212	WATER	5.29	1.0	1.00			06/29/08	RUN	2

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
SPKB		1113354	WATER	10.0	1.0	1.00	100.5		06/29/08		
SPKB		1113354	WATER	10.6	1.0	1.00	106.4		06/29/08		
SPKB		1113354	WATER	11.0	1.0	1.00	109.6		06/29/08		
SPKB		1113354	WATER	10.8	1.0	1.00	107.7		06/29/08		
ESMP	R2844175	1105213	WATER	2.08	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1105213	WATER	2.21	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1105213	WATER	2.23	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1105213	WATER	2.24	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1105214	WATER	6.88	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1105214	WATER	6.90	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1105214	WATER	7.01	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1105214	WATER	7.12	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1105215	WATER	6.93	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1105215	WATER	6.89	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1105215	WATER	7.12	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1105215	WATER	7.04	1.0	1.00			06/29/08	RUN	2
ESMP	R2844173	1108805	WATER	1.87	1.0	1.00			06/29/08		2
ESMP	R2844173	1108805	WATER	1.90	1.0	1.00			06/29/08		2
ESMP	R2844173	1108805	WATER	1.99	1.0	1.00			06/29/08		2
ESMP	R2844173	1108805	WATER	1.94	1.0	1.00			06/29/08		2
ESMP	R2844538	1110532	WATER	1.91	1.0	1.00			06/29/08		ASPB
ESMP	R2844538	1110532	WATER	2.04	1.0	1.00			06/29/08		ASPB
ESMP	R2844538	1110532	WATER	2.07	1.0	1.00			06/29/08		ASPB
ESMP	R2844538	1110532	WATER	1.97	1.0	1.00			06/29/08		ASPB
ESMP	R2844175	1110710	WATER	1.29	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1110710	WATER	1.38	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1110710	WATER	1.29	1.0	1.00			06/29/08	RUN	2
ESMP	R2844175	1110710	WATER	1.41	1.0	1.00			06/29/08	RUN	2
ESMP	R2844321	1106830	WATER	6.70	1.0	1.00			06/29/08		ASPB
ESMP	R2844321	1106830	WATER	6.95	1.0	1.00			06/29/08		ASPB
ESMP	R2844321	1106830	WATER	6.97	1.0	1.00			06/29/08		ASPB
ESMP	R2844321	1106830	WATER	6.99	1.0	1.00			06/29/08		ASPB
LDUP		1113355	WATER	6.88	1.0	1.00		2.59	06/29/08		
LDUP		1113355	WATER	6.91	1.0	1.00		0.55	06/29/08		
LDUP		1113355	WATER	6.98	1.0	1.00		0.11	06/29/08		
LDUP		1113355	WATER	6.96	1.0	1.00		0.49	06/29/08		
SPK1		1113356	WATER	15.4	1.0	1.00	86.5		06/29/08		
SPK1		1113356	WATER	17.2	1.0	1.00	102.2		06/29/08		
SPK1		1113356	WATER	17.1	1.0	1.00	101.5		06/29/08		
SPK1		1113356	WATER	17.2	1.0	1.00	102.4		06/29/08		
ESMP	R2844538	1110981	WATER	1.82	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1110981	WATER	1.71	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1110981	WATER	1.78	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1110981	WATER	1.80	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111264	WATER	2.18	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111264	WATER	2.27	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111264	WATER	2.32	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111264	WATER	2.33	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111265	WATER	1.56	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111265	WATER	1.59	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111265	WATER	1.64	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111265	WATER	1.69	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111266	WATER	2.01	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111266	WATER	1.83	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111266	WATER	1.66	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111266	WATER	1.71	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111267	WATER	1.08	1.0	1.00			06/29/08	RUN	ASPB

ANALYTE:G:\STARLIMS\ASBAR.RP1

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>RESULT</u>	<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
ESMP	R2844538	- 1111267	WATER	1.12	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	- 1111267	WATER	1.39	1.0	1.00			06/29/08	RUN	ASPE
ESMP	R2844538	- 1111267	WATER	1.10	1.0	1.00			06/29/08	RUN	ASPB
LDUP		- 1113357	WATER	1.01	1.0	1.00		6.80	06/29/08		
LDUP		- 1113357	WATER	1.13	1.0	1.00		1.07	06/29/08		
LDUP		- 1113357	WATER	1.10	1.0	1.00	<i>H.POL</i>	23.38	06/29/08		
LDUP		- 1113357	WATER	1.13	1.0	1.00		2.42	06/29/08		
SPK1		- 1113358	WATER	9.66	1.0	1.00	85.8		06/29/08		
SPK1		- 1113358	WATER	10.8	1.0	1.00	96.7		06/29/08		
SPK1		- 1113358	WATER	10.8	1.0	1.00	94.0		06/29/08		
SPK1		- 1113358	WATER	10.6	1.0	1.00	95.2		06/29/08		

Records printed: 176

Run #: 163605

Analyte: TOC AVG TOCAVG TOC QUAD AVERAGE (CALC.)

Printed: 07/08/08 20:50

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>REPORTED RESULT</u>	<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>DATE ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
CHK5		1115577	WATER	20.8	1.0	1.00			06/28/08		
BLK4		1115578	WATER	-0.123	1.0	1.00			06/28/08		
SPKB		1115579	WATER	10.1	1.0	1.00			06/28/08		
ESMP	R2844538	1109708	WATER	0.373	1.0	1.00			06/28/08		ASPB
ESMP	R2844538	1110532	WATER	2.00	1.0	1.00			06/29/08		ASPB
ESMP	R2844538	1110981	WATER	1.78	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111264	WATER	2.27	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111265	WATER	1.62	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111266	WATER	1.80	1.0	1.00			06/29/08	RUN	ASPB
ESMP	R2844538	1111267	WATER	1.17	1.0	1.00			06/29/08	RUN	ASPB
LDUP		1115580	WATER	1.09	1.0	1.00			06/29/08		
SPK1		1115581	WATER	10.5	1.0	1.00			06/29/08		

Records printed: 12

** SEQUENCE **

062808 Sat Jun 28 13:19:40 2008

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	1113347 CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
2	1113348 CCB	toc1	Chk. 5	4	1.000	0	1.00	No	
3	1113349 LCS	toc1	Chk. 5	4	1.000	0	1.00	No	
4	1106829 R-44321	toc1	Sample	4	1.000	0	1.00	No	
5	1109708 R-44538	toc1	Sample	4	1.000	0	1.00	No	
6	1105198 R-44175	toc1	Sample	4	1.000	0	1.00	No	
7	1105199	toc1	Sample	4	1.000	0	1.00	No	
8	1105200	toc1	Sample	4	1.000	0	1.00	No	
9	1113350 200 DUP	toc1	Sample	4	1.000	0	1.00	No	
10	1113351 200 SPK	toc1	Sample	4	1.000	0	1.00	No	
11	1105201	toc1	Sample	4	1.000	0	1.00	No	
12	1105193 R-44173	toc1	Sample	4	1.000	0	1.00	No	
13	1105195 R-44174	toc1	Sample	4	1.000	0	1.00	No	
14	1105196	toc1	Sample	4	1.000	0	1.00	No	
15	1105202 R-44175	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	1105203	toc1	Sample	4	1.000	0	1.00	No	
19	1105204	toc1	Sample	4	1.000	0	1.00	No	
20	1105205	toc1	Sample	4	1.000	0	1.00	No	
21	1105206	toc1	Sample	4	1.000	0	1.00	No	
22	1105207	toc1	Sample	4	1.000	0	1.00	No	
23	1105208	toc1	Sample	4	1.000	0	1.00	No	
24	1105209	toc1	Sample	4	1.000	0	1.00	No	
25	1105210	toc1	Sample	4	1.000	0	1.00	No	
26	1105211	toc1	Sample	4	1.000	0	1.00	No	
27	1113352 211 DUP	toc1	Sample	4	1.000	0	1.00	No	
28	1113353 211 SPK	toc1	Sample	4	1.000	0	1.00	No	
29	1105212	toc1	Sample	4	1.000	0	1.00	No	
30	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
31	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	
32	1113354 LCS	toc1	Chk. 5	4	1.000	0	1.00	No	
33	1105213	toc1	Sample	4	1.000	0	1.00	No	
34	1105214	toc1	Sample	4	1.000	0	1.00	No	
35	1105215	toc1	Sample	4	1.000	0	1.00	No	
36	1108805 R-44173	toc1	Sample	4	1.000	0	1.00	No	
37	1110532 R-44538	toc1	Sample	4	1.000	0	1.00	No	
38	1110710 R-44175	toc1	Sample	4	1.000	0	1.00	No	
39	1106830 R-44321	toc1	Sample	4	1.000	0	1.00	No	
40	1113355 830 DUP	toc1	Sample	4	1.000	0	1.00	No	
41	1113356 830 SPK	toc1	Sample	4	1.000	0	1.00	No	
42	1110981 R-44538	toc1	Sample	4	1.000	0	1.00	No	
43	1111264	toc1	Sample	4	1.000	0	1.00	No	
44	1111265	toc1	Sample	4	1.000	0	1.00	No	

Analyst: CWoods
Pipets: TOC/TOX
WAYNE

 ** SEQUENCE **

062808 Sat Jun 28 13:19:40 2008

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
45	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
46	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	
47	1111266	toc1	Sample	4	1.000	0	1.00	No	
48	1111267	toc1	Sample	4	1.000	0	1.00	No	
49	1113357 267 DUP	toc1	Sample	4	1.000	0	1.00	No	
50	1113358 267 SPK	toc1	Sample	4	1.000	0	1.00	No	
51	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
52	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	

OI Analytical Model 1010

TOC by EPA 415.1 / 9060 /
SM20 5310 C

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 1
Sample Name: 1113347 CCV
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 28Jun2008
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: 0628001.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208h
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	13:57	19405	20.577	20.075
2	14:06	20467	21.726	21.196
3	14:16	20368	21.619	21.092
4	14:25	20108	21.338	20.817
		Avg.	20087	20.795
		Std. Dev	479.21	
		RSD (%)	2.39	

OK
6/30/08

02218

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 2
Sample Name: 1113348 CCB
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 28Jun2008
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: 0628002.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	14:35	259	-0.141	-0.137
2	14:44	325	-0.069	-0.068
3	14:53	225	-0.178	-0.173
4	15:03	280	-0.118	-0.115
Avg.		272	-0.126	-0.123
Std. Dev		41.84		
RSD (%)		15.37		

OK
6/30/08

Columbia Analytical Svcs.
 1 Mustard Street
 Rochester, NY, 14609
 585-288-5380

Sample Information:

Sample #: 3
 Sample Name: 1113349 LCS
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 28Jun2008
 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: 0628003.rlt

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 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	15:13	9135	9.464	9.233
2	15:22	10131	10.542	10.285
3	15:31	10305	10.730	10.468
4	15:41	10161	10.574	10.316
Avg.		9933	10.327	10.076
Std. Dev		537.39		
RSD (%)		5.41		

OK
6/30/08

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 4
Sample Name: 1106829 R-44321
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 28Jun2008
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: 0628004.rit

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	15:51	3681	3.774	3.682
2	16:00	4097	4.225	4.121
3	16:09	4164	4.297	4.192
4	16:19	4129	4.259	4.155
Avg.		4018	4.139	4.038
Std. Dev		226.16		
RSD (%)		5.63		

OK
06/27/08

02221

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 5
Sample Name: 1109708 R-44538
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 28Jun2008
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: 0628005.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	16:28	581	0.420	0.410
2	16:38	540	0.375	0.366
3	16:47	533	0.368	0.359
4	16:56	532	0.367	0.358
Avg.		547	0.383	0.373
Std. Dev		23.27		
RSD (%)		4.26		

OK
[Signature]
6/28/08

*** = modified ** = unused



Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 6
Sample Name: 1105198 R-44175
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 28Jun2008
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: 0628006.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	17:06	2060	2.020	1.971
2	17:16	2184	2.154	2.102
3	17:25	2532	2.531	2.469
4	17:34	2492	2.488	2.427
Avg.		2317	2.298	2.242
Std. Dev		231.36		
RSD (%)		9.99		

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Sample Information:

Sample #: 7
 Sample Name: 1105199
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 28Jun2008
 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: 0628007.rtf

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 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	17:44	2334	2.317	2.260
2	17:54	2420	2.410	2.351
3	18:03	2463	2.456	2.396
4	18:12	2466	2.460	2.400
Avg.		2421	2.411	2.352
Std. Dev		61.53		
RSD (%)		2.54		

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Sample Information:

Sample #: 8
 Sample Name: 1105200
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 28Jun2008
 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: 0628008.rlt

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 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	18:22	1740	1.674	1.633
2	18:31	1705	1.636	1.596
3	18:41	1726	1.659	1.618
4	18:50	1765	1.701	1.660
Avg.		1734	1.668	1.627
Std. Dev		25.18		
RSD (%)		1.45		

02225

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Sample Information:

Sample #: 9
 Sample Name: 1113350 200 DUP
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 28Jun2008
 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: 0628009.rtf

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208r
 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	19:00	1682	1.611	1.572
2	19:09	1720	1.652	1.612
3	19:19	1790	1.728	1.686
4	19:28	2020	1.977	1.929
Avg.		1803	1.742	1.700
Std. Dev		151.42		
RSD (%)		8.40		

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Sample Information:

Sample #: 10
 Sample Name: 1113351 200 SPK
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 28Jun2008
 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: 0628010.rtf

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnfs)	TOC Mass (ugC)	TOC Conc (ppm)
1	19:38	11072	11.772	11.485
2	19:47	11517	12.254	11.955
3	19:57	11475	12.208	11.910
4	20:06	11743	12.498	12.193
Avg.		11452	12.183	11.886
Std. Dev		279.19		
RSD (%)		2.44		

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Sample Information:

Sample #: 11
Sample Name: 1105201
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 28Jun2008
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: 0628011.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	8110	8.567	8.358
2	20:25	8295	8.767	8.553
3	20:34	8292	8.764	8.550
4	20:44	8559	9.053	8.832
Avg.		8314	8.788	8.573
Std. Dev		184.83		
RSD (%)		2.22		

02228

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Sample Information:

Sample #: 12
Sample Name: 1105193 R-44173
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 28Jun2008
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: 0628012.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208r1
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	20:54	2747	2.764	2.696
2	21:03	2795	2.816	2.747
3	21:12	2664	2.674	2.609
4	21:22	2510	2.507	2.446
Avg.		2679	2.690	2.624
Std. Dev		124.99		
RSD (%)		4.67		



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Sample Information:

Sample #: 13
Sample Name: 1105195 R-44174
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 28Jun2008
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: 0628013.rlt

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	21:31	3670	3.762	3.671
2	21:41	3909	4.021	3.923
3	21:50	3718	3.814	3.721
4	21:59	3845	3.952	3.855
Avg.		3786	3.887	3.793
Std. Dev		110.59		
RSD (%)		2.92		

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Sample Information:

Sample #: 14
Sample Name: 1105196
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 28Jun2008
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: 0628014.rtf

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	22:09	5226	5.446	5.313
2	22:19	5278	5.502	5.368
3	22:28	5379	5.612	5.475
4	22:37	5381	5.614	5.477
Avg.		5316	5.544	5.408
Std. Dev		76.89		
RSD (%)		1.45		

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Sample Information:

Sample #: 15
Sample Name: 1105202 R-44175
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 28Jun2008
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: 0628015.rit

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208r1
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	22:47	5438	5.676	5.537
2	22:56	5522	5.767	5.626
3	23:06	5615	5.867	5.724
4	23:15	5723	5.984	5.838
Avg.		5575	5.823	5.681
Std. Dev		122.58		
RSD (%)		2.20		

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Sample Information:

Sample #: 16
Sample Name: CCV
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 28Jun2008
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: 0628016.rit

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	23:25	19345	20.512	20.012
2	23:34	20052	21.277	20.758
3	23:44	19809	21.014	20.502
4	23:53	20128	21.359	20.838
Avg.		19834	21.041	20.528
Std. Dev		352.94		
RSD (%)		1.78		

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02233

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Sample Information:

Sample #: 17
 Sample Name: CCB
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628017.rlt

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

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Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	00:03	274	-0.125	-0.122
2	00:12	277	-0.121	-0.118
3	00:21	266	-0.133	-0.130
4	00:31	234	-0.168	-0.164
Avg.		263	-0.137	-0.133
Std. Dev		19.72		
RSD (%)		7.51		

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Sample Information:

Sample #: 18
 Sample Name: 1105203
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628018.rft

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208r1
 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	00:41	3685	3.779	3.687
2	00:50	3679	3.772	3.680
3	00:59	4016	4.137	4.036
4	01:09	4333	4.480	4.371
Avg.		3928	4.042	3.943
Std. Dev		312.42		
RSD (%)		7.95		

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Sample Information:

Sample #: 19
Sample Name: 1105204
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628019.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	01:18	13240	14.118	13.774
2	01:28	12784	13.625	13.292
3	01:37	12823	13.667	13.334
4	01:46	13604	14.512	14.158
Avg.		13113	13.980	13.639
Std. Dev		387.10		
RSD (%)		2.95		

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02236

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Sample Information:

Sample #: 20
Sample Name: 1105205
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628020.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	01:56	27289	29.321	28.605
2	02:06	28248	30.358	29.618
3	02:15	27651	29.712	28.988
4	02:24	28231	30.340	29.600

Avg. 27855 29.933 29.203
Std. Dev 468.26
RSD (%) 1.68

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Sample Information:

Sample #: 21
 Sample Name: 1105206
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628021.rft

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208r1
 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	02:34	3174	3.226	3.147
2	02:44	3241	3.298	3.218
3	02:53	3316	3.379	3.297
4	03:02	3270	3.330	3.248
Avg.		3250	3.308	3.228
Std. Dev		59.48		
RSD (%)		1.83		

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Sample Information:

Sample #: 22
Sample Name: 1105207
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628022.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208r1
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnfs)	TOC Mass (ugC)	TOC Conc (ppm)
1	03:12	7426	7.827	7.636
2	03:21	7529	7.938	7.745
3	03:31	7894	8.333	8.130
4	03:40	8062	8.515	8.307
Avg.		7728	8.153	7.954
Std. Dev		299.95		
RSD (%)		3.88		

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Sample Information:

Sample #: 23
Sample Name: 1105208
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628023.rtf

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	03:50	3718	3.814	3.721
2	03:59	3617	3.705	3.615
3	04:08	3757	3.857	3.763
4	04:18	3752	3.851	3.757
Avg.		3711	3.807	3.714
Std. Dev		65.02		
RSD (%)		1.75		

02240

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Sample Information:

Sample #: 24
Sample Name: 1105209
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628024.rtf

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208r1
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	04:28	11904	12.672	12.363
2	04:37	12694	13.527	13.197
3	04:46	12470	13.285	12.961
4	04:56	12533	13.353	13.027
Avg.		12400	13.209	12.887
Std. Dev		344.02		
RSD (%)		2.77		

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Sample Information:

Sample #: 25
 Sample Name: 1105210
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628025.rlt

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 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	1621	1.545	1.508
2	05:15	1493	1.407	1.372
3	05:24	1600	1.523	1.485
4	05:34	1606	1.529	1.492
Avg.		1580	1.501	1.464
Std. Dev		58.67		
RSD (%)		3.71		

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Sample Information:

Sample #: 26
Sample Name: 1105211
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628026.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	05:43	1557	1.476	1.440
2	05:53	1662	1.590	1.551
3	06:02	1825	1.766	1.723
4	06:11	1777	1.714	1.672
Avg.		1705	1.636	1.596
Std. Dev		120.19		
RSD (%)		7.05		

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02243

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Sample Information:

Sample #: 27
 Sample Name: 1113352 211 DUP
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628027.rft

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208r1
 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	06:21	1556	1.475	1.439
2	06:31	1762	1.698	1.656
3	06:40	1842	1.784	1.741
4	06:49	1857	1.801	1.757
AVG.		1754	1.689	1.648
Std. Dev		138.59		
RSD (%)		7.90		

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6/30/08

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Sample Information:

Sample #: 28
Sample Name: 1113353 211 SPK
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628028.ft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	06:59	10794	11.471	11.192
2	07:08	11155	11.862	11.573
3	07:18	11124	11.828	11.540
4	07:27	11043	11.741	11.454
Avg.		11029	11.726	11.440
Std. Dev		163.63		
RSD (%)		1.48		

OK
6/29/08

Columbia Analytical Svcs.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

Sample Information:

Sample #: 29
 Sample Name: 1105212
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628029.rft

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 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	07:37	4857	5.047	4.924
2	07:46	4999	5.201	5.074
3	07:56	5084	5.293	5.163
4	08:05	5205	5.423	5.291
Avg.		5036	5.241	5.113
Std. Dev		146.37		
RSD (%)		2.91		

OK
CM/16
GP

Columbia Analytical Svcs.
1 Mustard Street
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585-288-5380

Sample Information:

Sample #: 30
Sample Name: CCV
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628030.rlt

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	08:15	19125	20.274	19.780
2	08:24	20224	21.463	20.940
3	08:33	19934	21.150	20.634
4	08:43	20347	21.596	21.070

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6/29/08

Avg. 19908
Std. Dev 549.65
RSD (%) 2.76

02247

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Sample Information:

Sample #: 31
Sample Name: CCB
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628031.rlt

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	08:53	286	-0.112	-0.109
2	09:02	248	-0.153	-0.149
3	09:11	242	-0.159	-0.155
4	09:21	242	-0.159	-0.155
Avg.		255	-0.146	-0.142
Std. Dev		21.19		
RSD (%)		8.33		

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02248

*** = modified ' ' = unused

Columbia Analytical Svcs.
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585-288-5380

Sample Information:

Sample #: 32
Sample Name: 1113354 LCS
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628032.rlt

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

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Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	09:30	9911	10.304	10.052
2	09:40	10465	10.903	10.637
3	09:49	10766	11.229	10.955
4	09:58	10590	11.038	10.769
Avg.		10433	10.868	10.603
Std. Dev		369.25		
RSD (%)		3.54		

02249

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Sample Information:

Sample #: 33
 Sample Name: 1105213
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628033.rlt

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 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	2159	2.127	2.076
2	10:18	2288	2.267	2.212
3	10:27	2309	2.290	2.234
4	10:36	2313	2.294	2.238
Avg.		2267	2.245	2.190
Std. Dev		72.99		
RSD (%)		3.22		

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02250

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Columbia Analytical Svcs.
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Sample Information:

Sample #: 34
Sample Name: 1105214
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628034.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	10:46	6713	7.055	6.883
2	10:55	6727	7.070	6.898
3	11:05	6836	7.188	7.013
4	11:14	6937	7.298	7.120
Avg.		6803	7.153	6.978
Std. Dev		104.75		
RSD (%)		1.54		

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Sample Information:

Sample #: 35
Sample Name: 1105215
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628035.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208r1
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	6760	7.106	6.933
2	11:33	6718	7.061	6.888
3	11:43	6934	7.294	7.117
4	11:52	6866	7.221	7.045
Avg.		6820	7.171	6.996
Std. Dev		98.51		
RSD (%)		1.44		

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585-288-5380

Sample Information:

Sample #: 36
Sample Name: 110805 R-44173
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628036.rtf

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208r1
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	12:02	1962	1.914	1.868
2	12:11	1989	1.943	1.896
3	12:21	2075	2.037	1.987
4	12:30	2029	1.987	1.938
Avg.		2014	1.970	1.922
Std. Dev		49.24		
RSD (%)		2.45		

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WJ
6/28/08

Columbia Analytical Svcs.
1 Mustard Street
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585-288-5380

Sample Information:

Sample #: 37
Sample Name: 1110532 R-44538
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628037.rlt

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	12:40	2002	1.958	1.910
2	12:49	2124	2.090	2.039
3	12:58	2151	2.119	2.067
4	13:08	2058	2.018	1.969
Avg.		2084	2.046	1.996
Std. Dev		67.05		
RSD (%)		3.22		

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Sample Information:

Sample #: 38
Sample Name: 1110710 R-44175
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628038.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208r1
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	13:18	1417	1.324	1.292
2	13:27	1505	1.420	1.385
3	13:36	1416	1.323	1.291
4	13:46	1526	1.442	1.407
Avg.		1466	1.378	1.344
Std. Dev		57.80		
RSD (%)		3.94		

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Sample Information:

Sample #: 39
 Sample Name: 1106830 R-44321
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628039.rit

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

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Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	13:56	6536	6.864	6.696
2	14:05	6779	7.127	6.953
3	14:14	6798	7.147	6.973
4	14:24	6810	7.160	6.986
Avg.		6731	7.074	6.902
Std. Dev		130.46		
RSD (%)		1.94		

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Sample Information:

Sample #: 40
 Sample Name: 1113355 830 DUP
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628040.ft

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208r1
 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	14:34	6706	7.048	6.876
2	14:43	6740	7.085	6.912
3	14:52	6803	7.153	6.978
4	15:01	6782	7.130	6.956
Avg.		6758	7.104	6.930
Std. Dev		43.32		
RSD (%)		0.64		

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Columbia Analytical Svcs.
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Sample Information:

Sample #: 41
Sample Name: 1113356 830 SPK
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628041.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	15:11	14735	15.736	15.352
2	15:21	16460	17.603	17.173
3	15:30	16413	17.552	17.124
4	15:39	16518	17.665	17.234
Avg.		16032	17.139	16.721
Std. Dev		865.40		
RSD (%)		5.40		

OK
06/30/08

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 42
Sample Name: 1110981 R-44538
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628042.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	15:49	1916	1.864	1.819
2	15:59	1811	1.751	1.708
3	16:08	1877	1.822	1.778
4	16:17	1893	1.840	1.795
Avg.		1874	1.819	1.775
Std. Dev		45.10		
RSD (%)		2.41		

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Sample Information:

Sample #: 43
 Sample Name: 1111264
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628043.rft

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208r1
 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	16:27	2258	2.235	2.180
2	16:37	2340	2.323	2.267
3	16:46	2387	2.374	2.316
4	16:55	2401	2.389	2.331
Avg.		2347	2.330	2.273
Std. Dev		64.51		
RSD (%)		2.75		

02250

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TOC by EPA 415.1 / 9060
 OI Analytical Model 1010

Sample Information:

Sample #: 4
 Sample Name: 1111265
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628044.rtf

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 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	17:05	1667	1.595	1.556
2	17:15	1701	1.632	1.592
3	17:24	1742	1.676	1.635
4	17:33	1791	1.729	1.687
Avg.		1725	1.658	1.618
Std. Dev		53.49		
RSD (%)		3.10		

OK
CM
6/30/08

02261

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 45
Sample Name: CCV
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628045.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208r1
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	17:43	18605	19.711	19.231
2	17:53	19963	21.181	20.664
3	18:02	20059	21.285	20.766
4	18:11	20159	21.393	20.871
Avg.		19697	20.893	20.383
Std. Dev		732.05		
RSD (%)		3.72		

OK
6/30/08

02252

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 4/6
Sample Name: CCB
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628046.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208r1
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	18:21	265	-0.134	-0.131
2	18:30	247	-0.154	-0.150
3	18:40	231	-0.171	-0.167
4	18:49	268	-0.131	-0.128
Avg.		253	-0.148	-0.144
Std. Dev		17.21		
RSD (%)		6.81		

OK
6/30/08

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 47
Sample Name: 1111266
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628047.rlt

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	18:59	2094	2.057	2.007
2	19:08	1930	1.880	1.834
3	19:18	1767	1.703	1.662
4	19:27	1811	1.751	1.708
Avg.		1901	1.848	1.803
Std. Dev		146.22		
RSD (%)		7.69		

OK
6/29/08

02264

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Columbia Analytical Svcs.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

Sample Information:

Sample #: 48
 Sample Name: 1111267
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628048.rit

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 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	19:37	1215	1.106	1.079
2	19:46	1255	1.149	1.121
3	19:56	1512	1.427	1.392
4	20:05	1233	1.125	1.098
Avg.		1304	1.202	1.173
Std. Dev		139.79		
RSD (%)		10.72		

OK
6/30/08

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 Rochester, NY. 14609
 585-288-5380

Sample Information:

Sample #: 49
 Sample Name: 1113357 267 DUP
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628049.rit

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

OK
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Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	20:15	1149	1.034	1.009
2	20:24	1265	1.160	1.132
3	20:33	1234	1.126	1.099
4	20:43	1261	1.156	1.127
Avg.		1227	1.119	1.092
Std. Dev		53.95		
RSD (%)		4.40		

92266

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: *1050*
 Sample Name: 1113358 267 SPK
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 29Jun2008
 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: 0628050.rlt

Method Name: toc1
 Sequence Name: 062808
 Calibration Name: 051208rl
 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	20:53	9343	9.901	9.660
2	21:02	10410	11.056	10.786
3	21:11	10409	11.055	10.785
4	21:21	10252	10.885	10.619
AVG.		10104	10.724	10.463
Std. Dev		512.41		
RSD (%)		5.07		

OK
WJ 30/08

Columbia Analytical Svcs.
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Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: *H51 07/2/08*
Sample Name: CCV
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 29Jun2008
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: 0628051.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208rl
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	21:31	18136	19.204	18.736
2	21:40	19648	20.840	20.332
3	21:49	19951	21.168	20.652
4	21:59	20093	21.322	20.802
Avg.		19457	20.633	20.130
Std. Dev		900.01		
RSD (%)		4.63		

Handwritten signature

02259

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 1252
Sample Name: CCB *W/3/08*
Run Type: CHK STD 5
Analysis Mode: TOC
Total Repts: 4
Date: 29Jun2008
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: 0628052.rft

Method Name: toc1
Sequence Name: 062808
Calibration Name: 051208r1
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	22:09	223	-0.180	-0.175
2	22:18	234	-0.168	-0.164
3	22:27	236	-0.166	-0.162
4	22:37	229	-0.173	-0.169
Avg.		231	-0.172	-0.167
Std. Dev		5.80		
RSD (%)		2.52		

OK
W/3/08

02259

*** = modified ' ' = unused

General Chemistry Analytical Run Cover Sheet

Analyst: T. Christ

Date: 6-28-08

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 = 05/12/08

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 **

051208 Mon May 12 15:33:02 2008

Pos/ Vial	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	1.000	0	1.00	No	
7	ICB	toc1	Chk. 5	4	1.000	0	1.00	No	

Analyst: T. Christ
Pipets: toc/tcx
WAYNE

Columbia Analytical Svcs.
 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: 12May2008
 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: 0512001.rlt

Method Name: toc1
 Sequence Name: 051208
 Calibration Name: 051208rl
 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	16:07	264	0.000	0.000
2	16:16	332	0.000	0.000
3	16:26	268	0.000	0.000
4	16:35	323	0.000	0.000
Avg.		297	0.000	0.000
Std. Dev		35.73		
RSD (%)		12.04		

Handwritten signature and date: 5/13/08

02272

Columbia Analytical Svcs.
 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: 1.00 STD
 Run Type: STD 2
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12May2008
 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: 0512002.rtf

Method Name: toc1
 Sequence Name: 051208
 Calibration Name: 051208rl
 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	16:45	1348	1.025	1.000
2	16:54	1244	1.025	1.000
3	17:04	1404	1.025	1.000
4	17:13	1294	1.025	1.000
Avg.		1323	1.025	1.000
Std. Dev		68.96		
RSD (%)		5.21		

OK
5/12/08

02273

Columbia Analytical Svcs.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

TOC by EPA 415.1 / 9060
 OI Analytical Model 1010

Sample Information:

Sample #: 3
 Sample Name: 5.00 STD
 Run Type: STD 3
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12May2008
 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: 0512003.rtf

Method Name: toc1
 Sequence Name: 051208
 Calibration Name: 051208rl
 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	17:23	5389	5.125	5.000
2	17:32	5162	5.125	5.000
3	17:41	4901	5.125	5.000
4	17:51	5181	5.125	5.000
Avg.		5158	5.125	5.000
Std. Dev		199.96		
RSD (%)		3.88		

OK
5/13/08

02274

Columbia Analytical Svcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 4
Sample Name: 10.00 STD
Run Type: STD 4
Analysis Mode: TOC
Total Reps: 4
Date: 12May2008
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: 0512004.rft

Method Name: toc1
Sequence Name: 051208
Calibration Name: 051208rl
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	18:01	10030	10.250	10.000
2	18:10	9910	10.250	10.000
3	18:19	10138	10.250	10.000
4	18:29	9948	10.250	10.000
Avg.		10007	10.250	10.000
Std. Dev		100.96		
RSD (%)		1.01		

Handwritten signature and date: 5/13/08

02275

Columbia Analytical Svcs.
 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: 30.00 STD
 Run Type: STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12May2008
 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: 0512005.rtf

Method Name: toc1
 Sequence Name: 051208
 Calibration Name: 051208rl
 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	18:39	29345	30.750	30.000
2	18:48	27624	30.750	30.000
3	18:57	28819	30.750	30.000
4	19:07	29149	30.750	30.000
Avg.		28734	30.750	30.000
Std. Dev		771.33		
RSD (%)		2.68		

Handwritten signature and date: 5/13/08

02276

Columbia Analytical Svcs.
 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: 1098562 ICV
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12May2008
 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: 0512006.rtf

Method Name: toc1
 Sequence Name: 051208
 Calibration Name: 051208rl
 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	19:16	19725	20.923	20.413
2	19:26	19110	20.258	19.764
3	19:35	19520	20.702	20.197
4	19:44	19861	21.071	20.557
Avg.		19554	20.738	20.233
Std. Dev		327.51		
RSD (%)		1.67		

OK
5/12/08

02277

Columbia Analytical Svcs.
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 585-288-5380

TOC by EPA 415.1 / 9060
 OI Analytical Model 1010

Sample Information:

Sample #: 7
 Sample Name: 1098563 ICB
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12May2008
 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: 0512007.rft

Method Name: toc1
 Sequence Name: 051208
 Calibration Name: 051208r1
 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	19:54	258	-0.142	-0.138
2	20:04	171	-0.236	-0.230
3	20:13	192	-0.213	-0.208
4	20:22	183	-0.223	-0.218
Avg.		201	-0.204	-0.199
Std. Dev		38.96		
RSD (%)		19.38		

02278

Columbia Analytical Svcs.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

OI Analytical Model 1010

TOC by EPA 415.1 / 9060 /
 SM20 5310 C

Calibration Information:

Calibration Name: 051208RL
 Standard Type: TOC
 Date Created: 12May2008
 Time Created: 15:31
 RF: 1.082
 R²: 0.9990
 Mass (area cts): 389
 Mass (ug C): -0.421

Avg TIC Blank: 4
 Avg TOC Blank: 275
 Avg TC Blank: 260

Std. #	Conc (ppm)	Volume (ml)	# of Reps.	Avg. Area (cnts)	RSD (%)	Rep #	Std 1	Std 2	Std 3	Std 4	Std 5
1	0.000	1.000	4	296.8	12.04	1	264	1348	5389	10030	29345
2	1.000	1.000	4	1322.5	5.21	2	332	1244	5162	9910	27624
3	5.000	1.000	4	5158.3	3.88	3	268	1404	4901	10138	28819
4	10.000	1.000	4	10006.5	1.01	4	323	1294	5181	9948	29149
5	30.000	1.000	4	28734.3	2.68						

"*" = modified "-" = unused

 ** CALIBRATION **

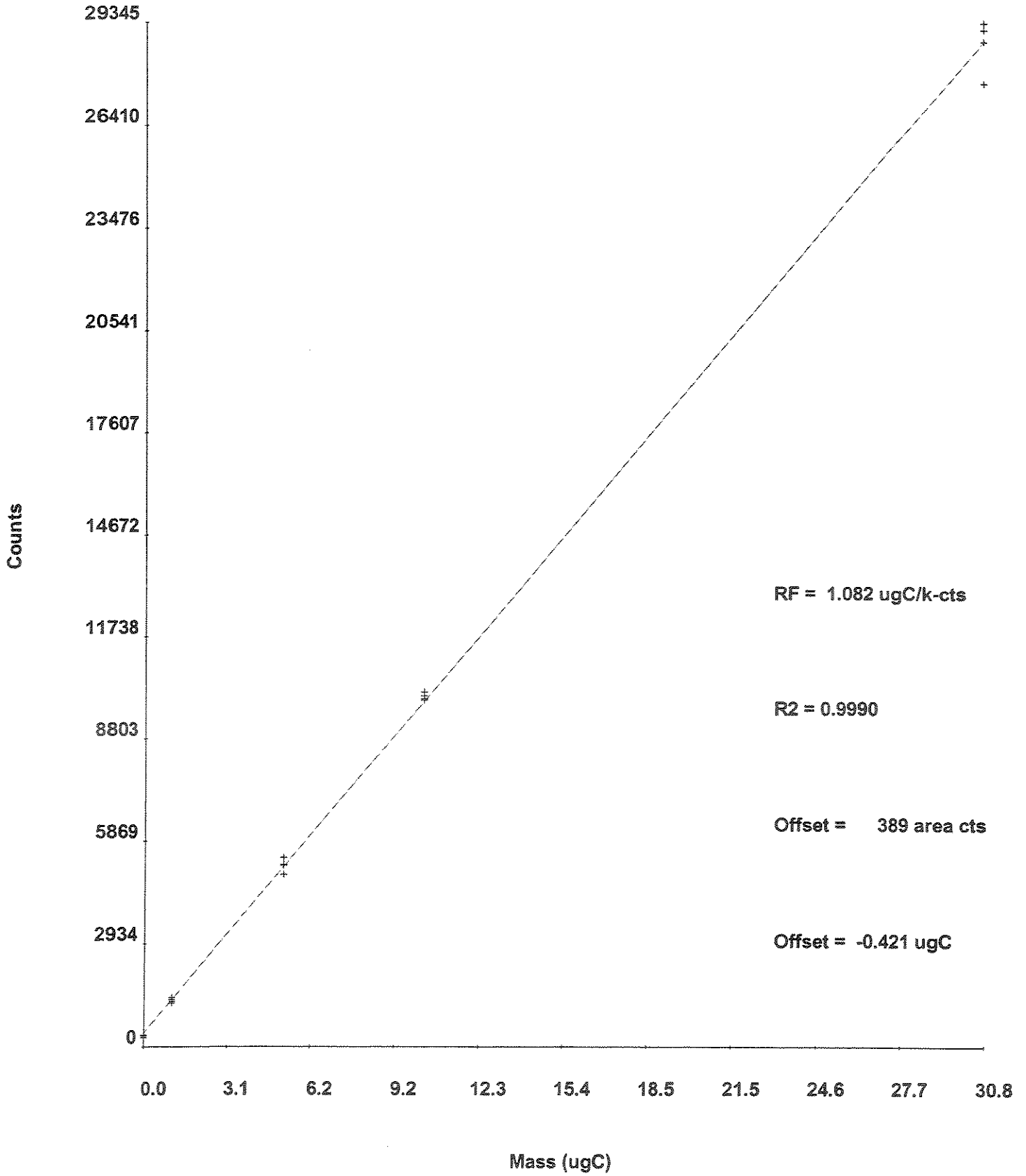
051208RL Mon May 12 19:07:04 2008

Std. #	Used	Conc. (ppm)	Volume (mL)		
1	Yes	0.000	1.000	RF (ugC/k-cts):	1.082
2	Yes	1.000	1.000	R-Squared:	0.9990
3	Yes	5.000	1.000	Offset (cts):	389
4	Yes	10.000	1.000	Offset (ugC):	-0.421
5	Yes	30.000	1.000	Calibration Mode:	TOC
				Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5
1	264	1348	5389	10030	29345
2	332	1244	5162	9910	27624
3	268	1404	4901	10138	28819
4	323	1294	5181	9948	29149
5	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	-	-	-	-	-

(* = unused)

Calibration - 051208RL (TOC, 12May2008 19:07)



5/12/08 (A) TOC High Level Calibration for OI Model 1010

TC

Standards - (just) per calibration

conc. mg/L	mls 1000ppm (WC86004E)	final vol. w/ UPDI
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 (WC86004E) diluted
volumetrically to 100 mls w/ UPDI.

(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
4.0 mls 1000ppm Ref. Stock (WC86005A) diluted
to 200 mls volumetrically w/ UPDI.

Continued on Page _____

Read and Understood By _____

Signed _____

Date _____

Signed _____

Date _____

PROJECT

TC 5/18/08

5/18/08 (A) TOC Reference Standard Stock (1000ppm)

TC (3910) same as WC86004E, except using KHP (WC76085F)

Exp 1 yr, 5/18/09.

5/12/08 TOC low Level Calibration for CI model 1010

~~5/12/08~~ (B) Standards - flush per calibration

5/12/08 Conc. (mg/L)	mils 1000ppm Std (WC86004E)	final vol. w/ LIPDI
0.00	0	100
0.05	10mils of 0.50 Std	↓
0.10	10mils of 1.00 Std	
0.50	0.05	
1.00	0.100	

(C) TOC low level LCS TV=0.25ppm

flush per run

- 0.025mils 1000ppm Std Stock (WC86004E) diluted volumetrically to 100 mils w/ LIPDI

(D) TOC 100ppm working Stock

4.20 mils 1000ppm Std Stock (WC86004E) → 42 mils in vial w/ LIPDI

(E) TOC low level mls TV=0.25ppm

Add 0.105 ^{700.2003} mL ¹⁰⁰ ppm working Stock (WC86005D) to 42 mils sample in vial

(F) ICV/CCV low level TV=0.75ppm

0.150 mils 1000ppm Ref Stock (WC86005A) dilute ^{flush per run} volumetrically to 20mils and diluted by w/ LIPDI. continued on Page

Signal

Date

Signal

Date

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
1000	UL 1000ppm Std. Stock (WC86001D) 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 (1000ppm)

TC (396A) 2.128g KHP (WC85076G), previously dried @ 104°C for 2 hours, → 1000 mls w/ UPDT. Store @ RT in amber glass. Exp. 1 yr. 5/8/09.

Continued on Page

Read and Understood By

Signed _____

Date _____

Signed _____

Date _____

R44321
 R44538
 R44650
 30000

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK5		1118474	WATER	18.6	1.0	1.00	92.9		07/11/08		
CHK5		1118474	WATER	20.5	1.0	1.00	102.6		07/11/08		
CHK5		1118474	WATER	20.3	1.0	1.00	101.7		07/11/08		
CHK5		1118474	WATER	20.4	1.0	1.00	101.8		07/11/08		
BLK4		1118475	WATER	-0.126	1.0	1.00			07/11/08		
BLK4		1118475	WATER	-0.158	1.0	1.00			07/11/08		
BLK4		1118475	WATER	-0.162	1.0	1.00			07/11/08		
BLK4		1118475	WATER	-0.148	1.0	1.00			07/11/08		
SPKB		1118476	WATER	10.3	1.0	1.00	102.8		07/11/08		
SPKB		1118476	WATER	10.3	1.0	1.00	103.1		07/11/08		
SPKB		1118476	WATER	10.3	1.0	1.00	103.4		07/11/08		
SPKB		1118476	WATER	10.3	1.0	1.00	103.4		07/11/08		
SPKB		1118477	WATER	9.40	1.0	1.00	94.0		07/12/08		
SPKB		1118477	WATER	9.80	1.0	1.00	98.1		07/12/08		
SPKB		1118477	WATER	9.96	1.0	1.00	99.6		07/12/08		
SPKB		1118477	WATER	9.88	1.0	1.00	98.8		07/12/08		
ESMP	R2844321	1106783	WATER	0.310	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106783	WATER	0.301	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106783	WATER	0.368	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106783	WATER	0.310	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106786	WATER	0.839	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106786	WATER	0.845	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106786	WATER	0.828	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106786	WATER	0.867	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106790	WATER	0.363	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106790	WATER	0.340	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106790	WATER	0.333	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106790	WATER	0.346	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106791	WATER	2.42	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106791	WATER	2.39	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106791	WATER	2.48	1.0	1.00			07/11/08		ASPB
ESMP	R2844321	1106791	WATER	2.41	1.0	1.00			07/11/08		ASPB
LDUP		1118478	WATER	2.29	1.0	1.00		5.61	07/11/08		
LDUP		1118478	WATER	2.26	1.0	1.00		5.68	07/11/08		
LDUP		1118478	WATER	2.35	1.0	1.00		5.51	07/11/08		
LDUP		1118478	WATER	2.28	1.0	1.00		5.50	07/11/08		
SPK1		1118479	WATER	12.4	1.0	1.00	99.5		07/11/08		
SPK1		1118479	WATER	12.8	1.0	1.00	103.9		07/11/08		
SPK1		1118479	WATER	12.5	1.0	1.00	99.8		07/11/08		
SPK1		1118479	WATER	12.4	1.0	1.00	100.0		07/11/08		
ESMP	R2844538	1111763	WATER	1.97	1.0	1.00			07/11/08	RUN	ASPB
ESMP	R2844538	1111763	WATER	2.13	1.0	1.00			07/11/08	RUN	ASPB
ESMP	R2844538	1111763	WATER	2.18	1.0	1.00			07/11/08	RUN	ASPB
ESMP	R2844538	1111763	WATER	2.20	1.0	1.00			07/11/08	RUN	ASPB
ESMP	R2844538	1111764	WATER	1.83	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111764	WATER	2.00	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111764	WATER	2.04	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111764	WATER	2.02	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	2.38	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	2.55	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	2.65	1.0	1.00			07/12/08	RUN	ASPB

Reviewed & Approved
 By: Cheryl
 Date: 7/17/08

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844538	1111765	WATER	2.59	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112065	WATER	2.32	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112065	WATER	2.39	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112065	WATER	2.43	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112065	WATER	2.43	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	1.72	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	1.79	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	1.86	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	1.84	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.207	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.138	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.106	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.114	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	1.84	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	1.97	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	2.07	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	2.09	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	1.82	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	1.84	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	1.89	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	2.00	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	2.15	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	2.22	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	2.29	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	2.32	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	1.74	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	1.79	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	1.92	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	2.12	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112809	WATER	1.87	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112809	WATER	1.94	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112809	WATER	2.02	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112809	WATER	2.04	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112810	WATER	1.63	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112810	WATER	1.80	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112810	WATER	1.82	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112810	WATER	1.86	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112811	WATER	17.6	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112811	WATER	19.3	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112811	WATER	18.9	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112811	WATER	19.5	1.0	1.00			07/12/08		ASPB
LDUP		1118480	WATER	18.7	1.0	1.00		5.96	07/12/08		
LDUP		1118480	WATER	19.4	1.0	1.00		0.37	07/12/08		
LDUP		1118480	WATER	20.1	1.0	1.00		6.12	07/12/08		
LDUP		1118480	WATER	19.7	1.0	1.00		1.14	07/12/08		
SPK1		1118481	WATER	23.6	1.0	1.00	60.2		07/12/08		
SPK1		1118481	WATER	24.6	1.0	1.00	52.7		07/12/08		
SPK1		1118481	WATER	23.8	1.0	1.00	48.6		07/12/08		
SPK1		1118481	WATER	25.3	1.0	1.00	57.6		07/12/08		
ESMP	R2844650	1112812	WATER	0.702	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112812	WATER	0.475	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112812	WATER	0.416	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112812	WATER	0.322	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112871	WATER	1.34	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112871	WATER	1.42	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112871	WATER	1.44	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112871	WATER	1.54	1.0	1.00			07/12/08		ASPB

ANALYTE: G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844650	1112872	WATER	1.31	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112872	WATER	1.37	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112872	WATER	1.45	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112872	WATER	1.43	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112874	WATER	1.62	1.0	1.00			07/12/08	QC	ASPB
ESMP	R2844650	1112874	WATER	1.62	1.0	1.00			07/12/08	QC	ASPB
ESMP	R2844650	1112874	WATER	1.70	1.0	1.00			07/12/08	QC	ASPB
ESMP	R2844650	1112874	WATER	1.74	1.0	1.00			07/12/08	QC	ASPB
LDUP	1118482	1118482	WATER	1.74	1.0	1.00		7.37	07/12/08		
LDUP	1118482	1118482	WATER	1.73	1.0	1.00		6.45	07/12/08		
LDUP	1118482	1118482	WATER	1.85	1.0	1.00		8.50	07/12/08		
LDUP	1118482	1118482	WATER	1.85	1.0	1.00		5.91	07/12/08		
SPK1	1118483	1118483	WATER	8.97	1.0	1.00	73.5		07/12/08		
SPK1	1118483	1118483	WATER	9.53	1.0	1.00	79.1		07/12/08		
SPK1	1118483	1118483	WATER	9.63	1.0	1.00	79.3		07/12/08		
SPK1	1118483	1118483	WATER	10.7	1.0	1.00	89.7		07/12/08		
ESMP	R2844734	1113042	WATER	0.935	1.0	1.00			07/12/08		2
ESMP	R2844734	1113042	WATER	0.965	1.0	1.00			07/12/08		2
ESMP	R2844734	1113042	WATER	1.18	1.0	1.00			07/12/08		2
ESMP	R2844734	1113042	WATER	1.06	1.0	1.00			07/12/08		2
ESMP	R2844734	1113043	WATER	4.88	1.0	1.00			07/12/08		2
ESMP	R2844734	1113043	WATER	4.90	1.0	1.00			07/12/08		2
ESMP	R2844734	1113043	WATER	4.99	1.0	1.00			07/12/08		2
ESMP	R2844734	1113043	WATER	4.94	1.0	1.00			07/12/08		2
ESMP	R2844734	1113044	WATER	0.716	1.0	1.00			07/12/08		2
ESMP	R2844734	1113044	WATER	0.657	1.0	1.00			07/12/08		2
ESMP	R2844734	1113044	WATER	0.593	1.0	1.00			07/12/08		2
ESMP	R2844734	1113044	WATER	0.605	1.0	1.00			07/12/08		2
ESMP	R2844734	1113045	WATER	2.15	1.0	1.00			07/12/08		2
ESMP	R2844734	1113045	WATER	2.28	1.0	1.00			07/12/08		2
ESMP	R2844734	1113045	WATER	2.52	1.0	1.00			07/12/08		2
ESMP	R2844734	1113045	WATER	2.33	1.0	1.00			07/12/08		2
ESMP	R2844734	1113046	WATER	1.60	1.0	1.00			07/12/08	QC	2
ESMP	R2844734	1113046	WATER	1.62	1.0	1.00			07/12/08	QC	2
ESMP	R2844734	1113046	WATER	1.71	1.0	1.00			07/12/08	QC	2
ESMP	R2844734	1113046	WATER	1.68	1.0	1.00			07/12/08	QC	2
LDUP	1118484	1118484	WATER	1.67	1.0	1.00		4.22	07/12/08		
LDUP	1118484	1118484	WATER	1.72	1.0	1.00		5.99	07/12/08		
LDUP	1118484	1118484	WATER	1.78	1.0	1.00		3.73	07/12/08		
LDUP	1118484	1118484	WATER	1.76	1.0	1.00		4.54	07/12/08		
SPK1	1118485	1118485	WATER	12.0	1.0	1.00	104.1		07/12/08		
SPK1	1118485	1118485	WATER	12.1	1.0	1.00	104.4		07/12/08		
SPK1	1118485	1118485	WATER	12.0	1.0	1.00	103.0		07/12/08		
SPK1	1118485	1118485	WATER	11.9	1.0	1.00	102.6		07/12/08		
ESMP	R2844734	1113047	WATER	17.9	1.0	1.00			07/12/08		2
ESMP	R2844734	1113047	WATER	18.1	1.0	1.00			07/12/08		2
ESMP	R2844734	1113047	WATER	18.5	1.0	1.00			07/12/08		2
ESMP	R2844734	1113047	WATER	18.5	1.0	1.00			07/12/08		2
ESMP	R2844734	1113048	WATER	5.29	1.0	1.00			07/12/08		2
ESMP	R2844734	1113048	WATER	5.04	1.0	1.00			07/12/08		2
ESMP	R2844734	1113048	WATER	5.02	1.0	1.00			07/12/08		2
ESMP	R2844734	1113048	WATER	5.00	1.0	1.00			07/12/08		2
ESMP	R2844650	1113426	WATER	1.60	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113426	WATER	1.73	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113426	WATER	1.69	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113426	WATER	1.62	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113427	WATER	1.86	1.0	1.00			07/12/08		ASPB

ANALYTE:G:\STARLIMS\ASBAR.RP1

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>RESULT</u>	<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
ESMP	R2844650	1113427	WATER	1.93	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113427	WATER	2.01	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113427	WATER	1.94	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113428	WATER	2.69	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113428	WATER	2.68	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113428	WATER	2.76	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113428	WATER	2.76	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113429	WATER	1.37	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113429	WATER	1.41	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113429	WATER	1.45	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113429	WATER	1.50	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113430	WATER	1.28	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113430	WATER	1.38	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113430	WATER	1.36	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113430	WATER	1.38	1.0	1.00			07/13/08		ASPB

Records printed: 180

Run #: 164120
 Analyte: TOC AVG TOCAVG TOC QUAD AVERAGE (CALC.)
 Printed: 07/17/08 12:34

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
ESMP	R2844538	1111763	WATER	2.12	1.0	1.00			07/11/08	RUN	ASPB
CHKS		1118486	WATER	19.9	1.0	1.00			07/11/08		
BLK4		1118487	WATER	-0.148	1.0	1.00			07/11/08		
SPKB		1118488	WATER	10.3	1.0	1.00			07/11/08		
ESMP	R2844538	1111764	WATER	1.97	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844538	1111765	WATER	2.54	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112065	WATER	2.39	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112066	WATER	1.80	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.141	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	1.99	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	1.89	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	2.25	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	1.89	1.0	1.00			07/12/08	RUN	ASPB
ESMP	R2844650	1112809	WATER	1.97	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112810	WATER	1.78	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112811	WATER	18.8	1.0	1.00			07/12/08		ASPB
LDUP		1118489	WATER	19.5	1.0	1.00			07/12/08		
SPK1		1118490	WATER	23.6	1.0	1.00			07/12/08		
ESMP	R2844650	1112812	WATER	0.479	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112871	WATER	1.43	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112872	WATER	1.39	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1112874	WATER	1.67	1.0	1.00			07/12/08	QC	ASPB
LDUP		1118491	WATER	1.79	1.0	1.00			07/12/08		
SPK1		1118492	WATER	9.71	1.0	1.00			07/12/08		
ESMP	R2844650	1113426	WATER	1.66	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113427	WATER	1.93	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113428	WATER	2.72	1.0	1.00			07/12/08		ASPB
ESMP	R2844650	1113429	WATER	1.43	1.0	1.00			07/13/08		ASPB
ESMP	R2844650	1113430	WATER	1.35	1.0	1.00			07/13/08		ASPB

Records printed: 29

** SEQUENCE **

071108B Fri Jul 11 17:29:35 2008

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	CCV	tocl	Chk. 5	4	1.000	0	1.00	No	
2	CCB	tocl	Chk. 5	4	1.000	0	1.00	No	
3	LCS	tocl	Chk. 5	4	1.000	0	1.00	No	
4	1106783 R-44321	tocl	Sample	4	1.000	0	1.00	No	
5	1106786	tocl	Sample	4	1.000	0	1.00	No	
6	1106790	tocl	Sample	4	1.000	0	1.00	No	
7	1106791	tocl	Sample	4	1.000	0	1.00	No	
8	1106791 DUP	tocl	Sample	4	1.000	0	1.00	No	
9	1106791 SPK	tocl	Sample	4	1.000	0	1.00	No	
10	1111763 R-44538	tocl	Sample	4	1.000	0	1.00	No	
11	1111764	tocl	Sample	4	1.000	0	1.00	No	
12	1111765	tocl	Sample	4	1.000	0	1.00	No	
13	1112065 R-44650	tocl	Sample	4	1.000	0	1.00	No	
14	1112066	tocl	Sample	4	1.000	0	1.00	No	
15	1112067	tocl	Sample	4	1.000	0	1.00	No	
16	CCV	tocl	Chk. 5	4	1.000	0	1.00	No	
17	CCB	tocl	Chk. 5	4	1.000	0	1.00	No	
18	1112486	tocl	Sample	4	1.000	0	1.00	No	
19	1112487	tocl	Sample	4	1.000	0	1.00	No	
20	1112488	tocl	Sample	4	1.000	0	1.00	No	
21	1112489	tocl	Sample	4	1.000	0	1.00	No	
22	1112809	tocl	Sample	4	1.000	0	1.00	No	
23	1112810	tocl	Sample	4	1.000	0	1.00	No	
24	1112811	tocl	Sample	4	1.000	0	1.00	No	
25	1112811 DUP	tocl	Sample	4	1.000	0	1.00	No	
26	1112811 SPK	tocl	Sample	4	1.000	0	1.00	No	
27	1112812	tocl	Sample	4	1.000	0	1.00	No	
28	1112871	tocl	Sample	4	1.000	0	1.00	No	
29	1112872	tocl	Sample	4	1.000	0	1.00	No	
30	CCV	tocl	Chk. 5	4	1.000	0	1.00	No	
31	CCB	tocl	Chk. 5	4	1.000	0	1.00	No	
32	LCS	tocl	Chk. 5	4	1.000	0	1.00	No	
33	1112874	tocl	Sample	4	1.000	0	1.00	No	
34	1112874 DUP	tocl	Sample	4	1.000	0	1.00	No	
35	1112874 SPK	tocl	Sample	4	1.000	0	1.00	No	
36	1113042 R-44734	tocl	Sample	4	1.000	0	1.00	No	
37	1113043	tocl	Sample	4	1.000	0	1.00	No	
38	1113044	tocl	Sample	4	1.000	0	1.00	No	
39	1113045	tocl	Sample	4	1.000	0	1.00	No	
40	1113046	tocl	Sample	4	1.000	0	1.00	No	
41	1113046 DUP	tocl	Sample	4	1.000	0	1.00	No	
42	1113046 SPK	tocl	Sample	4	1.000	0	1.00	No	
43	1113047	tocl	Sample	4	1.000	0	1.00	No	
44	1113048	tocl	Sample	4	1.000	0	1.00	No	

Analysts: CW
CS
Pipets: TOC/TOX
WAYNE

** SEQUENCE **

071108B Fri Jul 11 17:29:35 2008

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
45	1113426 R-44650	toc1	Sample	4	1.000	0	1.00	No	
46	1113427	toc1	Sample	4	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	1113428	toc1	Sample	4	1.000	0	1.00	No	
50	1113429	toc1	Sample	4	1.000	0	1.00	No	
51	1113430	toc1	Sample	4	1.000	0	1.00	No	
52	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
53	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	

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SM20 5310 C

Columbia Analytical Svcs.
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585-288-5380

Sample Information:

Sample #: 1
Sample Name: CCV
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 11Jul2008
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: 0711001.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	17:42	17993	19.049	18.585
2	17:51	19829	21.036	20.523
3	18:00	19649	20.841	20.333
4	18:10	19666	20.860	20.351
Avg.		19284	20.446	19.948
Std. Dev		864.65		
RSD (%)		4.48		

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Columbia Analytical Svcs.
 1 Mustard Street
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Sample Information:

Sample #: 2
 Sample Name: CCB
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 Dilution Factor: 1.00
 Comments:

Unknown

Operator Name:
 Sample Volume (ml):
 Loop Volume (ml):
 Loop Size (ml):
 Sample Intro:
 Remote Start:
 File Name:

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

AUTOSAMPLER

0711002.rtf

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:19	270	-0.129	-0.126
2	18:29	239	-0.162	-0.158
3	18:38	236	-0.166	-0.162
4	18:47	249	-0.152	-0.148
Avg.		249	-0.152	-0.148
Std. Dev		15.37		
RSD (%)		6.19		

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Columbia Analytical SVCS.
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Sample Information:

Sample #: 3
Sample Name: LCS
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 11Jul2008
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: 0711003.rtf

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	18:57	10128	10.538	10.281
2	19:07	10156	10.569	10.311
3	19:16	10186	10.601	10.343
4	19:25	10183	10.598	10.339

Avg. 10163
Std. Dev 27.10
RSD (%) 0.27

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Sample Information:

Sample #: 4
 Sample Name: 1106783 R-44321
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 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: 0711004.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 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	19:35	487	0.318	0.310
2	19:45	478	0.308	0.301
3	19:54	542	0.378	0.368
4	20:03	487	0.318	0.310

Avg. 499
 Std. Dev 29.31
 RSD (%) 5.88

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Sample Information:

Sample #: 5
 Sample Name: 1106786
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 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: 0711005.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	20:13	988	0.860	0.839
2	20:22	993	0.866	0.845
3	20:32	977	0.848	0.828
4	20:41	1014	0.888	0.867
Avg.		993	0.866	0.845
Std. Dev		15.51		
RSD (%)		1.56		

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Sample Information:

Sample #: 6
 Sample Name: 1106790
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 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: 0711006.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	20:51	537	0.372	0.363
2	21:00	515	0.348	0.340
3	21:10	508	0.341	0.333
4	21:19	521	0.355	0.346
Avg.		520	0.354	0.345
Std. Dev		12.37		
RSD (%)		2.38		

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Sample Information:

Sample #: 7
 Sample Name: 1106791
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 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: 0711007.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 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	21:29	2482	2.477	2.417
2	21:38	2456	2.449	2.389
3	21:47	2546	2.546	2.484
4	21:57	2473	2.467	2.407

Avg. 2489
 Std. Dev 39.34
 RSD (%) 1.58

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Sample Information:

Sample #: 8
 Sample Name: 1106791 DUP
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 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: 0711008.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 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	22:07	2360	2.345	2.288
2	22:16	2332	2.315	2.258
3	22:25	2416	2.406	2.347
4	22:35	2354	2.338	2.281
Avg.		2366	2.351	2.294
Std. Dev		35.75		
RSD (%)		1.51		

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Sample Information:

Sample #: 9
 Sample Name: 1106791 SPK
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 11Jul2008
 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: 0711009.rtt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 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	22:44	11909	12.678	12.369
2	22:54	12297	13.098	12.778
3	23:03	11997	12.773	12.462
4	23:12	11943	12.715	12.405

Avg. 12037
 Std. Dev 177.41
 RSD (%) 1.47

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Sample Information:

Sample #: 10
Sample Name: 1111763
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 11Jul2008
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: 0711010.rlt

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208r1
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	23:22	2057	2.017	1.968
2	23:32	2208	2.180	2.127
3	23:41	2255	2.231	2.177
4	23:50	2275	2.253	2.198
Avg.		2199	2.170	2.117
Std. Dev		98.58		
RSD (%)		4.48		

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Sample Information:

Sample #: 11
 Sample Name: 1111764
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711011.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 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	00:00	1925	1.874	1.828
2	00:10	2091	2.054	2.004
3	00:19	2125	2.091	2.040
4	00:28	2108	2.072	2.022
Avg.		2062	2.023	1.973
Std. Dev		92.55		
RSD (%)		4.49		

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Sample Information:

Sample #: 12
 Sample Name: 1111765
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12.Jul.2008
 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: 0711012.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	2448	2.440	2.381
2	00:47	2610	2.615	2.552
3	00:57	2704	2.717	2.651
4	01:06	2648	2.657	2.592
Avg.		2603	2.607	2.544
Std. Dev		110.00		
RSD (%)		4.23		

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Sample Information:

Sample #: 13
 Sample Name: 1112065 R-44650
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711013.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	01:16	2386	2.373	2.315
2	01:25	2455	2.448	2.388
3	01:35	2496	2.492	2.431
4	01:44	2492	2.488	2.427

Avg. 2457
 Std. Dev 50.96
 RSD (%) 2.07

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Sample Information:

Sample #: 14
 Sample Name: 1112066
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711014.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	1826	1.767	1.724
2	02:03	1887	1.833	1.788
3	02:12	1960	1.912	1.865
4	02:22	1936	1.886	1.840
Avg.		1902	1.850	1.804
Std. Dev		59.22		
RSD (%)		3.11		

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Sample Information:

Sample #: 15
Sample Name: 1112067
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
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: 0711015.rtf

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	02:32	389	0.212	0.207
2	02:41	324	0.142	0.138
3	02:50	293	0.108	0.106
4	03:00	301	0.117	0.114
Avg.		327	0.145	0.141
Std. Dev		43.53		
RSD (%)		13.32		

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Sample Information:

Sample #: 16
Sample Name: CCV
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
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: 0711016.rtf

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208r1
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	03:09	18342	19.427	18.953
2	03:19	19343	20.510	20.010
3	03:28	19316	20.481	19.981
4	03:37	19540	20.723	20.218
Avg.		19135	20.285	19.790
Std. Dev		538.18		
RSD (%)		2.81		

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Sample Information:

Sample #: 17
 Sample Name: CCB
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711017.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	03:47	239	-0.162	-0.158
2	03:57	279	-0.119	-0.116
3	04:06	225	-0.178	-0.173
4	04:15	255	-0.145	-0.142
Avg.		250	-0.151	-0.147
Std. Dev		23.17		
RSD (%)		9.29		

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Sample Information:

Sample #: 18
 Sample Name: 1112486
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711018.rit

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	04:25	1933	1.883	1.837
2	04:34	2055	2.015	1.966
3	04:44	2155	2.123	2.071
4	04:53	2169	2.138	2.086
Avg.		2078	2.040	1.990
Std. Dev		109.18		
RSD (%)		5.25		

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Sample Information:

Sample #: 19
Sample Name: 1112487
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
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: 0711019.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	05:03	1920	1.869	1.823
2	05:12	1933	1.883	1.837
3	05:22	1984	1.938	1.891
4	05:31	2089	2.052	2.002

Avg. 1982
Std. Dev 76.80
RSD (%) 3.88

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Sample Information:

Sample #: 20
 Sample Name: 1112488
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711020.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 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	05:41	2229	2.203	2.149
2	05:50	2298	2.278	2.222
3	05:59	2365	2.350	2.293
4	06:09	2394	2.382	2.324
Avg.		2322	2.303	2.247
Std. Dev		73.61		
RSD (%)		3.17		

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Sample Information:

Sample #: 21
Sample Name: 1112489
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
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: 0711021.rlt

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	06:19	1839	1.781	1.738
2	06:28	1890	1.836	1.792
3	06:37	2008	1.964	1.916
4	06:47	2204	2.176	2.123
Avg.		1985	1.939	1.892
Std. Dev		162.10		
RSD (%)		8.17		

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*** = modified '...' = unused

Columbia Analytical Svcs.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

Sample Information:

Sample #: 22
 Sample Name: 1112809
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711022.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	06:56	1968	1.921	1.874
2	07:06	2029	1.987	1.938
3	07:15	2102	2.066	2.015
4	07:24	2123	2.088	2.038

Avg. 2056
 Std. Dev 70.89
 RSD (%) 3.45

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Sample Information:

Sample #: 23
Sample Name: 1112810
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12.Jul.2008
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: 0711023.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	07:34	1733	1.666	1.626
2	07:44	1899	1.846	1.801
3	07:53	1922	1.871	1.825
4	08:02	1950	1.901	1.855
Avg.		1876	1.821	1.777
Std. Dev		97.59		
RSD (%)		5.20		

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Sample Information:

Sample #: 24
Sample Name: 1112811
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
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: 0711024.rtl

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	08:12	16876	18.053	17.612
2	08:21	18463	19.770	19.288
3	08:31	18135	19.415	18.941
4	08:40	18642	19.964	19.477
Avg.		18029	19.300	18.830
Std. Dev		796.82		
RSD (%)		4.42		

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Sample Information:

Sample #: 25
Sample Name: 1112811 DUP
Run Type: SAMPLE
Analysis Mode: TOC
Total Repts: 4
Date: 12Jul2008
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: 0711025.rtf

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	08:50	17888	19.148	18.681
2	08:59	18542	19.855	19.371
3	09:09	19226	20.596	20.093
4	09:18	18876	20.217	19.724
Avg.		18633	19.954	19.467
Std. Dev		569.80		
RSD (%)		3.06		

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Sample Information:

Sample #: 26
 Sample Name: 1112811 SPK
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Repts: 4
 Date: 12-Jul-2008
 Dilution Factor: 1.00
 Comments:

Unknown

Operator Name:
 Sample Volume (ml):
 Loop Volume (ml):
 Loop Size (ml):
 Sample Intro:
 Remote Start:
 File Name:

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	09:28	22564	24.208	23.617
2	09:37	23469	25.187	24.573
3	09:46	22703	24.358	23.764
4	09:56	24124	25.896	25.264
Avg.		23215	24.912	24.304
Std. Dev		724.97		
RSD (%)		3.12		

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Sample Information:

Sample #: 27
 Sample Name: 1112812
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711027.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TOC Area (cnfs)	TOC Mass (ugC)	TOC Conc (ppm)
1	10:06	858	0.720	0.702
2	10:15	643	0.487	0.475
3	10:24	587	0.426	0.416
4	10:34	498	0.330	0.322
Avg.		647	0.491	0.479
Std. Dev		153.12		
RSD (%)		23.68		

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Sample Information:

Sample #: 28
Sample Name: 1112871
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
Dilution Factor: 1.00
Comments:

Unknown

Operator Name:
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711028.rtt

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208r1
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	10:44	1459	1.370	1.337
2	10:53	1537	1.454	1.419
3	11:02	1552	1.471	1.435
4	11:12	1652	1.579	1.540
Avg.		1550	1.468	1.433
Std. Dev		79.28		
RSD (%)		5.12		

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Sample Information:

Sample #: 29
 Sample Name: 1112872
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711029.rit

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	11:21	1430	1.339	1.306
2	11:31	1492	1.406	1.371
3	11:40	1570	1.490	1.454
4	11:49	1547	1.465	1.429
Avg.		1510	1.425	1.390
Std. Dev		62.43		
RSD (%)		4.14		

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COMBINA Analytical Svcs.
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Sample Information:

Sample #: 30
Sample Name: CCV
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 12.Jul.2008
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: 0711030.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	11:59	17707	18.740	18.283
2	12:08	19266	20.427	19.928
3	12:18	19693	20.889	20.379
4	12:27	19487	20.666	20.162
Avg.		19038	20.180	19.688
Std. Dev		904.46		
RSD (%)		4.75		

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*** = modified ' ' = unused

Columbia Analytical Svcs.
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Sample Information:

Sample #: 31
 Sample Name: CCB
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711031.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	12:37	314	-0.081	-0.079
2	12:46	271	-0.128	-0.125
3	12:56	291	-0.106	-0.104
4	13:05	242	-0.159	-0.155
		Avg.	280	-0.116
		Std. Dev	30.56	
		RSD (%)	10.93	

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DUPLICATE 1010
 OI Analytical Model 1010

Sample Information:

Sample #: 32
 Sample Name: LCS
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711032.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	13:15	9296	9.638	9.403
2	13:24	9677	10.050	9.805
3	13:34	9827	10.213	9.964
4	13:43	9749	10.128	9.881
Avg.		9637	10.007	9.763
Std. Dev		235.60		
RSD (%)		2.44		

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Columbia Analytical Svcs.
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585-288-5380

Sample Information:

Sample #: 33
Sample Name: 1112874
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
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: 0711033.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	13:53	1728	1.661	1.621
2	14:02	1727	1.660	1.619
3	14:11	1800	1.739	1.697
4	14:21	1846	1.789	1.745
Avg.		1775	1.712	1.670
Std. Dev		58.25		
RSD (%)		3.28		

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Sample Information:

Sample #: 34
 Sample Name: 1112874 DUP
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711034.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 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	14:31	1845	1.788	1.744
2	14:40	1830	1.771	1.728
3	14:49	1946	1.897	1.851
4	14:59	1942	1.893	1.846

Avg. 1891
 Std. Dev 61.81
 RSD (%) 3.27

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Sample Information:

Sample #: 35
 Sample Name: 1112874 SPK
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 Dilution Factor: 1.00

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: 0711035.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Comments:

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	15:09	8693	9.198	8.974
2	15:18	9217	9.765	9.527
3	15:27	9316	9.872	9.631
4	15:37	10338	10.978	10.710
Avg.		9391	9.953	9.710
Std. Dev		687.97		
RSD (%)		7.33		

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TOC by EPA 410.1 / 9000
 OI Analytical Model 1010

Sample Information:

Sample #: 36
 Sample Name: 1113042 R-44734
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711036.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	15:47	1079	0.959	0.935
2	15:56	1107	0.989	0.965
3	16:05	1312	1.211	1.181
4	16:15	1197	1.086	1.060

Avg. 1174

Std. Dev 105.02

RSD (%) 8.95

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Sample Information:

Sample #: 37
 Sample Name: 1113043
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12 Jul 2008
 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: 0711037.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 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	16:24	4818	5.005	4.883
2	16:34	4838	5.026	4.904
3	16:43	4916	5.111	4.986
4	16:52	4876	5.067	4.944
Avg.		4862	5.052	4.929
Std. Dev		43.30		
RSD (%)		0.89		

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Sample Information:

Sample #: 38
 Sample Name: 1113044
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711038.rit

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208fl
 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	17:02	871	0.734	0.716
2	17:12	815	0.673	0.657
3	17:21	755	0.608	0.593
4	17:30	766	0.620	0.605

Avg. 802
 Std. Dev 53.02
 RSD (%) 6.61

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Sample Information:

Sample #: 39
Sample Name: 1113045
Run Type: SAMPLE
Analysis Mode: TOC
Total Repts: 4
Date: 12Jul2008
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: 0711039.rit

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	17:40	2227	2.201	2.147
2	17:50	2350	2.334	2.277
3	17:59	2581	2.584	2.521
4	18:08	2403	2.391	2.333
Avg.		2390	2.378	2.320
Std. Dev		146.99		
RSD (%)		6.15		

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Columbia Analytical Svcs.
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Sample Information:

Sample #: 40
Sample Name: 1113046
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
Dilution Factor: 1.00
Comments:

Unknown

Operator Name:
Sample Volume (ml): 1.025
Loop Volume (ml): 1.025
Loop Size (ml): 1.000
Sample Intro: AUTOSAMPLER
Remote Start: OFF
File Name: 0711040.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208r1
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	18:18	1712	1.644	1.604
2	18:28	1731	1.664	1.624
3	18:37	1816	1.756	1.713
4	18:46	1788	1.726	1.684
		Avg.	1.698	1.656
		Std. Dev	48.49	
		RSD (%)	2.75	

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Columbia Analytical Svcs.
1 Mustard Street
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Sample Information:

Sample #: 1
Sample Name: 1113046 DUP
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
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: 0711041.rit

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	18:56	1774	1.711	1.669
2	19:05	1822	1.763	1.720
3	19:15	1874	1.819	1.775
4	19:24	1858	1.802	1.758
Avg.		1832	1.774	1.730
Std. Dev		44.36		
RSD (%)		2.42		

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Sample Information:

Sample #: 2
Sample Name: 1113046 SPK
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
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: 0711042.rlt

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	19:34	11568	12.309	12.009
2	19:43	11619	12.364	12.063
3	19:53	11566	12.307	12.007
4	20:02	11507	12.243	11.944
Avg.		11565	12.306	12.006
Std. Dev		45.79		
RSD (%)		0.40		

OK
CS
7/14/08

*** = modified ' ' = unused

Columbia Analytical Svcs.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

LOC BY EPA 415.1 / 9060
 OI Analytical Model 1010

Sample Information:

Sample #: 3
 Sample Name: 1113047
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711043.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	20:12	17189	18.391	17.943
2	20:21	17360	18.576	18.123
3	20:31	17744	18.992	18.529
4	20:40	17716	18.962	18.499
Avg.		17502	18.730	18.274
Std. Dev		272.33		
RSD (%)		1.56		

OK
 CS
 7/14/08

** = modified * = unused

Columbia Analytical Svcs.
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Sample Information:

Sample #: 4
 Sample Name: 1113048
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711044.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 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	5207	5.426	5.293
2	20:59	4967	5.166	5.040
3	21:08	4943	5.140	5.015
4	21:18	4927	5.123	4.998

Avg. 5011
 Std. Dev 131.70
 RSD (%) 2.63

OK
 CS
 7/14/08

** = modified '-' = unused

Columbia Analytical Svcs.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

Sample Information:

Sample #: 5
 Sample Name: 1113426 R-44650
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711045.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	21:28	1713	1.645	1.605
2	21:37	1830	1.771	1.728
3	21:46	1791	1.729	1.687
4	21:56	1727	1.660	1.619
Avg.		1765	1.701	1.660
Std. Dev		54.92		
RSD (%)		3.11		

OK
 CS
 7/14/08

"*" = modified "-" = unused

Columbia Analytical Svcs.
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 585-288-5380

Sample Information:

Sample #: 6
 Sample Name: 1113427
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711046.rtf

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	22:06	1950	1.901	1.855
2	22:15	2017	1.974	1.926
3	22:24	2101	2.065	2.014
4	22:34	2030	1.988	1.939

Avg. 2025
 Std. Dev 61.88
 RSD (%) 3.06

OK
 CS
 7/14/08

'*' = modified '-' = unused

Columbia Analytical Svcs.
 1 Mustard Street
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 585-288-5380

Sample Information:

Sample #: 7
 Sample Name: CCV
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 12Jul2008
 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: 0711047.rft

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208rl
 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	22:43	18816	19.940	19.453
2	22:53	19503	20.683	20.179
3	23:02	19569	20.755	20.248
4	23:11	19822	21.028	20.515
Avg.		19428	20.601	20.099
Std. Dev		430.23		
RSD (%)		2.21		

OK
 CS
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*** = modified '...' = unused

Columbia Analytical Svcs.
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Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 8
Sample Name: CCB
Run Type: CHK STD 5
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
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: 0711048.rlt

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208rl
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	23:21	359	-0.033	-0.032
2	23:31	304	-0.092	-0.090
3	23:40	276	-0.122	-0.119
4	23:49	228	-0.174	-0.170
Avg.		292	-0.105	-0.103
Std. Dev		54.73		
RSD (%)		18.76		

OK
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585-288-5380

Sample Information:

Sample #: 9
Sample Name: 1113428
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 12Jul2008
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: 0711049.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208r1
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	23:59	2742	2.758	2.691
2	00:09	2728	2.743	2.676
3	00:18	2812	2.834	2.765
4	00:27	2806	2.828	2.759
Avg.		2772	2.791	2.723
Std. Dev		43.17		
RSD (%)		1.56		

OK
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Sample Information:

Sample #: 10
 Sample Name: 1113429
 Run Type: SAMPLE
 Analysis Mode: TOC
 Total Reps: 4
 Date: 13Jul2008
 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: 0711050.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 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	00:37	1490	1.403	1.369
2	00:47	1527	1.444	1.408
3	00:56	1567	1.487	1.451
4	01:05	1613	1.537	1.499
Avg.		1549	1.468	1.432
Std. Dev		52.87		
RSD (%)		3.41		

OK
 CS
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*) = modified *) = unused

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Sample Information:

Sample #: 11
Sample Name: 1113430
Run Type: SAMPLE
Analysis Mode: TOC
Total Reps: 4
Date: 13Jul2008
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: 0711051.rft

Method Name: toc1
Sequence Name: 071108b
Calibration Name: 051208r
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	01:15	1401	1.307	1.275
2	01:25	1505	1.420	1.385
3	01:34	1482	1.395	1.361
4	01:43	1497	1.411	1.377
Avg.		1471	1.383	1.349
Std. Dev		47.79		
RSD (%)		3.25		

OK
CS
7/14/08

TM = modified '...' = unused

Columbia Analytical Svcs.
 1 Mustard Street
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Sample Information:

Sample #: 12
 Sample Name: CCV
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 13Jul2008
 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: 0711052.rlt

Method Name: toc1
 Sequence Name: 071108b
 Calibration Name: 051208r1
 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	01:53	18402	19.492	19.016
2	02:02	19154	20.305	19.810
3	02:12	19575	20.761	20.255
4	02:21	19546	20.730	20.224

Avg. 19169
 Std. Dev 546.35
 RSD (%) 2.85

OK
 CS
 7/14/08

*** = modified ' ' = unused

Columbia Analytical Svcs.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

Sample Information:

Sample #: 13
 Sample Name: CCB
 Run Type: CHK STD 5
 Analysis Mode: TOC
 Total Reps: 4
 Date: 13Jul2008
 Dilution Factor: 1.00
 Comments:

Operator Name:

Sample Volume (ml): 1.025
 Loop Volume (ml): 1.025
 Loop Size (ml): 1.000
 Sample Intro: AUTOSAMPLER
 Remote Start: OFF
 File Name: 0711053.rlt

Method Name:

Sequence Name: 071108b
 Calibration Name: 051208rl
 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	02:31	270	-0.129	-0.126
2	02:40	232	-0.170	-0.166
3	02:50	217	-0.186	-0.182
4	02:59	269	-0.130	-0.127
Avg.		247	-0.154	-0.150
Std. Dev		26.70		
RSD (%)		10.81		

OK
 CS
 7/14/08

02345

*** = modified '...' = unused

General Chemistry Analytical Run Cover Sheet

Analyst: C. Woods C. Schraeder

Date: 7-11-08

Analysis: Total Inorganic 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.:	WC86003A, 2/12/08	WC86002B, 2/12/08				
b) I/CCV Preparation:	WC86003D, 2/12/08	WC86002C, 2/12/08	4.0	1000	200	20.00
c) LCS Preparation:	WC86003B, 2/12/08	WC86002B, 2/12/08	1.0	1000	100	10.00
d) Matrix Spike Prep.:	WC86003C, 2/12/08	WC86002B, 2/12/08	0.42	1000	42	10.00

Instrument log filled in? (Y) (N)

Comments:

Curve Date = 02/13/2008

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 Starlins run and final report include the dilution factor.

** SEQUENCE **

021308TIC Wed Feb 13 15:29:35 2008

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	0.0 PPM	tic	Std. 1	3	1.000	0	1.00	No	
2	1.0 PPM	tic	Std. 2	3	1.000	0	1.00	No	
3	5.0 PPM	tic	Std. 3	3	1.000	0	1.00	No	
4	10.0 PPM	tic	Std. 4	3	1.000	0	1.00	No	
5	30.0 PPM	tic	Std. 5	3	1.000	0	1.00	No	
6	ICV	tic	Chk. 1	3	1.000	0	1.00	No	
7	ICB	tic	Chk. 1	3	1.000	0	1.00	No	
8	LCS	tic	Chk. 1	3	1.000	0	1.00	No	
9	LCS	tic	Chk. 1	2	1.000	0	1.00	No	
10	LCS	tic	Chk. 1	2	1.000	0	1.00	No	
11	LCS	tic	Chk. 1	2	1.000	0	1.00	No	
12	1070336	tic	Sample	2	1.000	0	1.00	No	4
13	1070336 DUP	tic	Sample	2	1.000	0	1.00	No	4
14	1070336	tic	Sample	2	1.000	0	1.00	No	
15	CCV	tic	Chk. 5	2	1.000	0	1.00	No	
16	CCB	tic	Chk. 1	2	1.000	0	1.00	No	

Analyst: C Woods
Pipets: TOC/TOX
WAYNE

1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #: 1
Sample Name: 0.0 PPM
Run Type: STD 1
Analysis Mode: TIC
Total Reps: 3
Date: 13Feb2008
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: 0213001.rtt

Method Name: tic
Sequence Name: 021308tic
Calibration Name: 021308tic
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	10:54	374	0.000	0.000
2	11:00	343	0.000	0.000
3	11:06	344	0.000	0.000
AVG.		354	0.000	0.000
Std. Dev		17.62		
RSD (%)		4.98		

OLYMPIC ANALYTICAL SVCS.
 1 Mustard Street
 Rochester, NY. 14609
 585-288-5380

Sample Information:

Sample #: 2
 Sample Name: 1.0 PPM
 Run Type: STD 2
 Analysis Mode: TIC
 Total Reps: 3
 Date: 13Feb2008
 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: 0213002.rtl

Method Name: tic
 Sequence Name: 021308tic
 Calibration Name: 021308tic
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	11:13	1591	1.025	1.000
2	11:19	1528	1.025	1.000
3	11:25	1615	1.025	1.000
Avg.		1578	1.025	1.000
Std. Dev		44.93		
RSD (%)		2.85		

02349

'*' = modified '-' = unused

Columbia Analytical Svcs.
 Mustard Street
 Rochester, NY. 14609
 85-288-5380

Sample Information:
 Sample #: 3
 Sample Name: 5.0 PPM
 Run Type: STD 3
 Analysis Mode: TIC
 Total Reps: 3
 Date: 13Feb2008
 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: 0213003.rtf

Method Name: tic
Sequence Name: 021308tic
Calibration Name: 021308tic
PAM Mode: OFF
PAM Volume (ul): 0
PAM Purge (min:sec): 0:30

OK
2/13/08

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	11:32	5094	5.125	5.000
2	11:38	4663	5.125	5.000
3	11:44	5171	5.125	5.000
		Avg.	4976	5.125
		Std. Dev	273.79	
		RSD (%)	5.50	

02350

1 Mustard Street
 Rochester, NY 14609
 585-288-5380

Sample Information:

Sample #: 4
 Sample Name: 10.0 PPM
 Run Type: STD 4
 Analysis Mode: TIC
 Total Reps: 3
 Date: 13Feb2008
 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: 0213004.rtt

Method Name: tic
 Sequence Name: 021308tic
 Calibration Name: 021308tic
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	11:50	9578	10.250	10.000
2	11:56	9226	10.250	10.000
3	12:03	9696	10.250	10.000
Avg.		9500	10.250	10.000
Std. Dev		244.52		
RSD (%)		2.57		

OK
[Signature]
 2/13/08

02351

"*" = modified "-" = unused

Mustard Street
 Rochester, NY, 14609
 585-288-5380

Sample Information:

Sample #: 5
 Sample Name: 30.0 PPM
 Run Type: STD 5
 Analysis Mode: TIC
 Total Reps: 3
 Date: 13Feb2008
 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: 0213005.rft

Method Name: tic
 Sequence Name: 021308tic
 Calibration Name: 021308tic
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	12:09	27224	30.750	30.000
2	12:15	25310	30.750	30.000
3	12:21	26663	30.750	30.000
Avg.		26399	30.750	30.000
Std. Dev		983.93		
RSD (%)		3.73		

OK
8/13/12

02352

"" = modified ' ' = unused

CUMMINS ANALYTICAL SVCS.
 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: ICV
 Run Type: CHK STD 1
 Analysis Mode: TIC
 Total Reps: 3
 Date: 13Feb2008
 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: 0213006.rft

Method Name: tic
 Sequence Name: 021308tic
 Calibration Name: 021308tic
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	13:10	17958	20.582	20.080
2	13:16	17656	20.223	19.730
3	13:22	17642	20.207	19.714
Avg.		17752	20.337	19.841
Std. Dev		178.54		
RSD (%)		1.01		

OK
2/13/08

02350

OI Analytical Svcs.
 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: ICB
 Run Type: CHK STD 1
 Analysis Mode: TIC
 Total Reps: 3
 Date: 13Feb2008
 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: 0213007.rtf

Method Name: tic
 Sequence Name: 021308tic
 Calibration Name: 021308tic
 PAM Mode: OFF
 PAM Volume (ul): 0
 PAM Purge (min:sec): 0:30

Sample Results:

Rep #	Time	TIC Area (cnts)	TIC Mass (ugC)	TIC Conc (ppm)
1	13:29	204	-0.488	-0.476
2	13:35	184	-0.512	-0.499
3	13:41	205	-0.487	-0.475
Avg.		198	-0.496	-0.483
Std. Dev		11.85		
RSD (%)		5.99		

OK
WJ
2/13/08

02354

"*" = modified " " = unused

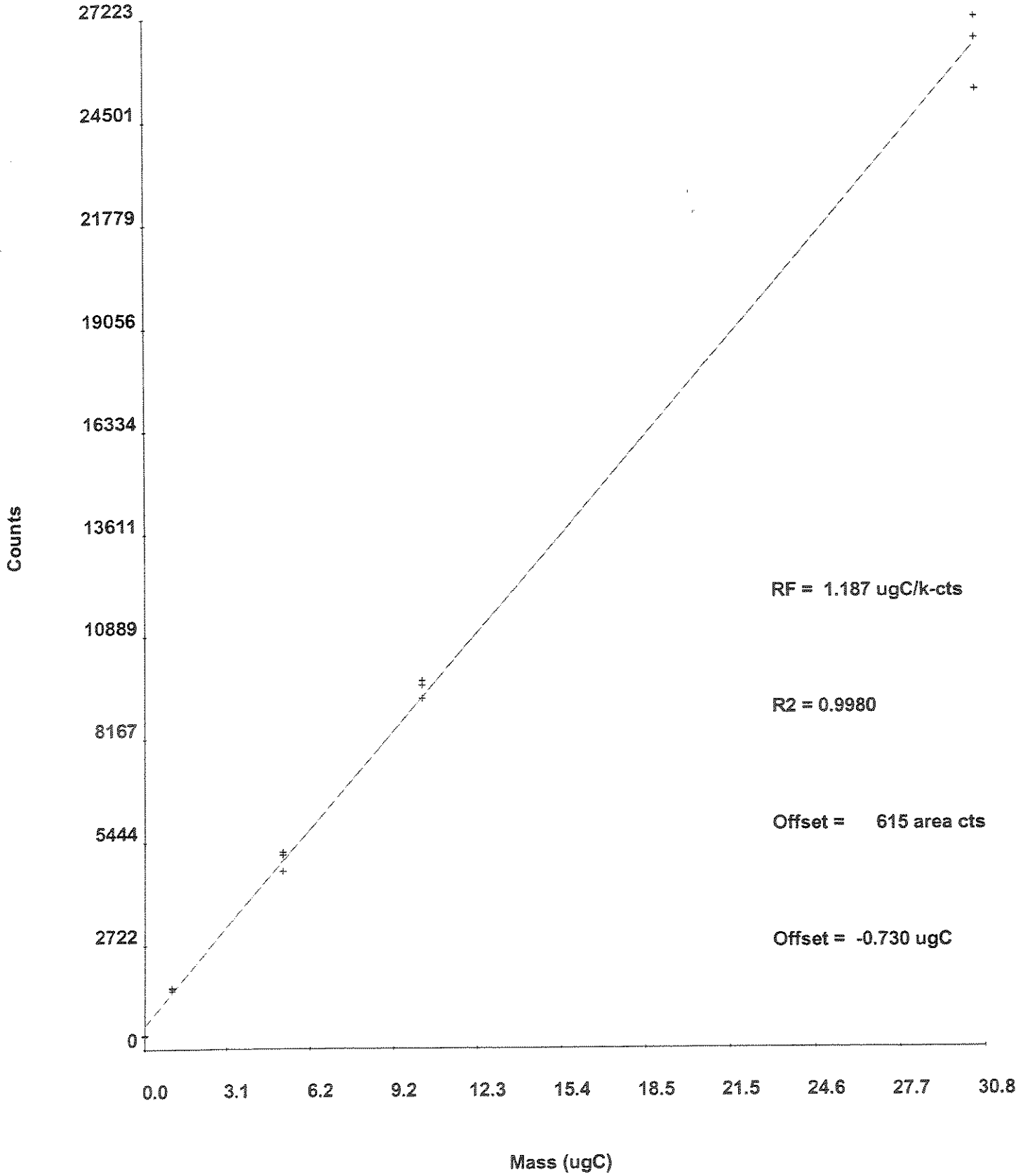
 ** CALIBRATION **

021308TIC Wed Feb 13 12:21:51 2008

Std. #	Used	Conc. (ppm)	Volume (mL)	RF (ugC/k-cts):	1.187
1	Yes	0.000	1.000	R-Squared:	0.9980
2	Yes	1.000	1.000	Offset (cts):	615
3	Yes	5.000	1.000	Offset (ugC):	-0.730
4	Yes	10.000	1.000	Calibration Mode:	TIC
5	Yes	30.000	1.000	Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	
1	374	1591	5094	9578	27224	
2	343	1528	4663	9226	25310	
3	344	1615	5171	9696	26663	
4	-	-	-	-	-	
5	-	-	-	-	-	(* = unused)
6	-	-	-	-	-	
7	-	-	-	-	-	
8	-	-	-	-	-	
9	-	-	-	-	-	
10	-	-	-	-	-	

Calibration - 021308TIC (TIC, 13Feb2008 12:21)



CMW TOC Soil's Continued

11-27-07

(A) Matrix Spike

To 8-12mg of sample add 20 μ L of 10000ppm Standard Stock (WC86001A). More or less sample can be used depending on its concentration. True value depends on sample mass:

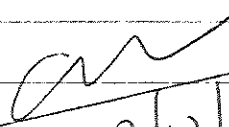
$$TV = \frac{\text{mass, } \mu\text{g}}{\text{sample mass, } \mu\text{g}} (20\mu\text{L})(10000\text{ppm})$$

CMW (B) 1000ppm TIC Standard Stock

2-12-08 Dissolve 0.8824g Na₂CO₃ (WC76232D) in 100mL Volumetric flask w/ UPDI. Bring to volume w/ UPDI. Store @ RT in amber glass. Exp 1 year (2-12-09).

(C) 1000ppm TIC Reference Stock

Dissolve 0.8824g Na₂CO₃ (WC76294G) in 100mL Volumetric flask w/ UPDI. Bring to volume w/ UPDI. Store @ RT in amber glass. Exp 1 year (2-12-09).


2/12/08

Continued on Page _____

Read and Understood

Read and Understood By _____

Silva

11/27/07

Signed _____

Date _____

Signed _____

Date _____

PROJECT _____

cmw
2/12/08
① TIC Calibration Standards for
OI model 1010 Analyzer - make fresh per
calibration

<u>Std. Conc (mg/L)</u>	<u>mls 1000ppm Std</u> <u>(WC860002B)</u>	<u>Final Volume (mls UPDI)</u>
0.00	0.000	100
1.00	0.100	↓
5.00	0.500	
10.00	1.000	
30.00	3.000	

② TIC LCS
Dilute 1ml of 1000 ppm TIC Standard (WC860002B)
to 100mls with UPDI. Prepare fresh each
run. TV=10ppm

③ TIC Matrix Spike
Add 0.42mls of 1000ppm standard stock (WC860002B)
to 42mls of sample. TV=10ppm

④ TIC ICV/CCV
Dilute 4mls of 1000 ppm reference stock (WC860002C)
to 200mls w/ UPDI. Prepare fresh each run. TV=20ppm.

Continued on Page _____

Read and Understood By _____

Signed _____ Date _____ Signed _____ Date _____

1/18/07

BB

Received from VWR

- (A) • (10) x 100 Mlera Microfibre filters, Wistner
Cat # 1827047, Lot # G1894307. Store in drawer
@ Solids bench
- (B) • (1) x 100g Potassium Dichromate, Cat # PX1445-11,
EMD Lot # 45251652, CAS # 7778-50-9. Store @ R.T.
Expires 1/18/10
- (C) • (1) x 25 Kg Sodium Hydroxide pellets, Cat # SX0590-14,
EMD Lot # 46193633, CAS # 1310-73-2. Store @ R.T.
Expires 1/18/10
- (D) • (4) x 500g Sodium Carbonate Anhydrous, Cat # SX0395-1,
EMD Lot # 46212637, CAS # 497-19-8. Store @ R.T.
Expires 1/18/10

1/19/07

NM

(E) NH₄OH Buffer - TDTN + NO₂

- same as WCT62016. Exp. 1 year, 1/19/08.

(F) Silica Color Reagent

- same as WCT6218H. Exp. 1 month, 2/19/07.

1/19/07

BB

Received from VWR

- (G) • (1) x 100 mL Phenol Std Soln, 1000 mg/L, Cat # H302-01,
MallinKrodt Lot # C41790, CAS # 108-95-2. Store @ 4°C.
Expires 1/19/08

Received from Andwin Scientific

- (H) • (1) x 125 mL Phenol Std. Soln, 1000 mg/L.
Cat # LC18330-7, Libchem Lot # 6215-01, CAS # 108-95-2.
Store @ 4°C. Expires 8/9/08

6/20/07 (A) Hypochlorite - NH₃
NM - 300 mL UPDI
- 300 mL Sodium Hypochlorite (WC76285F)
Prepare fresh each run.

6/20/07 (B) Crit Color Reagent - Aquakem
TZ 0.25g 1,5 diphencylcarbonylhydrazide (WC76144C)
brought up to 50 mLs volumetrically w/
Acetone (WC76000F). Dissolve thoroughly.
Exp. 1 month, 7/20/07,

6/20/07 (C) Color Reagent - Phosco
MB Same as WC76179D, except Brij is WC76271I.
Expires 7/04/07.

6/20/07 Received from VWR

(D) (1) x 1kg Magnesium Chloride · 6H₂O, Cat# MX0045-4,
EMD Lot# 46117644, CAS# 7791-18-6. Store @ R.T.
Expires 6/20/2010

(E) (1) x 2.5 L Phosphoric Acid, Cat# PX0995-14,
EMD Lot# 47032714, CAS# 7664-38-2. Store @ R.T.
Expires 6/20/2010

(F) (1) x 500 mL Phenol Reagent, Cat# PX0511-1,
EMD Lot# 46318, CAS# 108-95-2. Store in
flammable cabinet. Expires 6/20/2010.

Received from Alfa Aesar (VWR)

(G) (1) x 100g Sodium Carbonate, Cat# 33377, AA
Lot# D19R023, CAS# 497-19-8. Store @ R.T.
Expires 6/20/2010

6/20/07 (H) 7PO4 Stock Ammonium Molybdate Solution

Run #: 162842
 Analyte: TP 365.1 PHOSPHORUS, TOTAL
 Printed: 06/26/08 09:57

R44538

1 copy

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	POL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1112338	WATER	1.47	1.0	0.0500	97.9		06/25/2008		
BLK1		1112339	WATER	0.0500	U	1.0	0.0500		06/25/2008		
BLK2		1112340	WATER	0.0500	U	1.0	0.0500		06/25/2008		
SPKB		1112341	WATER	0.728		1.0	0.0500	91.0	06/25/2008		
ESMP	R2844538	1109708	WATER	0.0500	U	1.0	0.0500		06/25/2008		ASPB
ESMP	R2843624	1096084	WATER	9.86		5.0	0.0500		06/25/2008	QC	2
LDUP		1112342	WATER	9.75		5.0	0.0500	1.15	06/25/2008		
SPK1		1112343	WATER	10.6		10.0	0.0500	86.5	06/25/2008		
ESMP	R2843442	1093541	WATER	2.93		4.0	0.0500		06/25/2008	RUN	2
ESMP	R2843442	1093542	WATER	5.84		4.0	0.0500		06/25/2008	RUN	2
ESMP	R2843442	1093543	WATER	4.40		4.0	0.0500		06/25/2008	RUN	2
ESMP	R2844538	1110532	WATER	0.0500	U	1.0	0.0500		06/25/2008		ASPB
ESMP	R2844538	1110981	WATER	0.244		1.0	0.0500		06/25/2008	RUN	ASPB
LDUP		1112344	WATER	0.245		1.0	0.0500	0.57	06/25/2008		
SPK1		1112345	WATER	0.874		1.0	0.0500	78.8	06/25/2008		
ESMP	R2844538	1111264	WATER	0.0832		1.0	0.0500		06/25/2008	RUN	ASPB
ESMP	R2844538	1111265	WATER	0.0500	U	1.0	0.0500		06/25/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER	0.0500	U	1.0	0.0500		06/25/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER	0.0500	U	1.0	0.0500		06/25/2008	RUN	ASPB

Records printed: 19

Reviewed & Approved

By: Chutzu

Date: 6/30/08

Columbia Analytical Services
 1 Mustard Street
 Rochester, NY 14609

Analyte: TPO4 Digest Low Level / Regular Level
 Analyst: SBR Date: 6/24/08
 Pipet ID: ER/Al Spk Witness: aga

#	Submission #	Order #	Sample Amt (mLs/g)	Dilution	Spk Amount	Comments
1		PB 1	25			
(2)		LCS 1 INORG			+0.20 mL	100 ppm
(3)		LCS 1 ORG			+0.20 mL	100 ppm
4	R-44538	1109708				
5	R-43624	1096084				
6		084 DUP				
(7)		084 SPK			+0.20 mL	100 ppm
8	R-43442	1093541				
9		1093542				
10		1093543				
11	R-44538	1110532				
12		1110981				
13		981 DUP				
(14)		981 SPK			+0.20 mL	100 ppm
15		1111264				
16		1111265				
17		1111266				
18		1111267				
19						
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SBR 6/24/08

Creator: NMEAD

Creation Date: Jun 24, 2008 14:39:29

Last Modified: Jun 25, 2008 10:16:40

Description: QC 8000 365.1 TPO4 - RUN LOG - TPO4B 0806250A

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	CRDL 0.10	1.0000	Unknown	
7	CRDL 0.05	1.0000	Unknown	
8	CCV	1.0000	Unknown	
9	CCB	1.0000	Unknown	
10	1109708-44538	1.0000	Unknown	
11	1096084-43624	5.0000	Unknown	
12	084 DUP	5.0000	Unknown	
13	084 SPK TV = 0.8	5.0000	Unknown	opt @ # 27-1/10
14	1093541-43442	4.0000	Unknown	
15	1093542	4.0000	Unknown	
16	1093543	4.0000	Unknown	
17	1110532-44538	1.0000	Unknown	
18	1110981	1.0000	Unknown	
19	981 DUP	1.0000	Unknown	
20	CCV	1.0000	Unknown	
21	CCB	1.0000	Unknown	
22	981 SPK TV = 0.8	1.0000	Unknown	
23	1111264	1.0000	Unknown	
24	1111265	1.0000	Unknown	
25	1111266	1.0000	Unknown	
26	1111267	1.0000	Unknown	
27	1096084SPKRPT1/10TV = 0.4	10.0000	Unknown	
28	CCV	1.0000	Unknown	
29	CCB	1.0000	Unknown	

OPERATOR: NMEAD
 ACQ. TIME: Jun 25, 2008 9:58:54
 DATA FILENAME: C:\OMNION\DATA\080625A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0806250A.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	25 Jun 2008	09:58:57	1	1.4686	1.0	1.00
2	ICB	25 Jun 2008	09:59:41	1	0.0166	1.0	1.00
3	PB-1	25 Jun 2008	10:00:24	1	0.0166	1.0	1.00
4	LCS-1 INORG. TV= 0.8	25 Jun 2008	10:01:08	1	0.7277	1.0	1.00
5	LCS-1 ORG. TV= 0.8	25 Jun 2008	10:01:50	1	0.8327	1.0	1.00
6	CRDL 0.10	25 Jun 2008	10:02:33	1	0.1023	1.0	1.00
7	CRDL 0.05	25 Jun 2008	10:03:15	1	0.0577	1.0	1.00
8	CCV	25 Jun 2008	10:03:58	1	1.4682	1.0	1.00
9	CCB	25 Jun 2008	10:04:40	1	0.0166	1.0	1.00
10	1109708-44538	25 Jun 2008	10:05:23	1	0.0299	1.0	1.00
11	1096084-43624	25 Jun 2008	10:06:05	1	9.8601	5.0	1.00
12	084 DUP	25 Jun 2008	10:06:48	1	9.7476	5.0	1.00
13	084 SPK TV= 0.8	25 Jun 2008	10:07:30	1	10.7074	5.0	1.00
14	1093541-43442	25 Jun 2008	10:08:11	1	2.9328	4.0	1.00
15	1093542	25 Jun 2008	10:08:53	1	5.8353	4.0	1.00
16	1093543	25 Jun 2008	10:09:36	1	4.4042	4.0	1.00
17	1110532-44538	25 Jun 2008	10:10:20	1	0.0440	1.0	1.00
18	1110981	25 Jun 2008	10:11:04	1	0.2444	1.0	1.00
19	981 DUP	25 Jun 2008	10:11:47	1	0.2454	1.0	1.00
20	CCV	25 Jun 2008	10:12:31	1	1.4003	1.0	1.00
21	CCB	25 Jun 2008	10:13:14	1	0.0166	1.0	1.00
22	981 SPK TV= 0.8	25 Jun 2008	10:13:58	1	0.8745	1.0	1.00
23	1111264	25 Jun 2008	10:14:40	1	0.0832	1.0	1.00
24	1111265	25 Jun 2008	10:15:23	1	0.0385	1.0	1.00
25	1111266	25 Jun 2008	10:16:05	1	0.0373	1.0	1.00

-rp+ @# 27-1/16

OPERATOR: NMEAD
 ACQ. TIME: Jun 25, 2008 9:58:54
 DATA FILENAME: C:\OMNION\DATA\080625A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0806250A.TRA

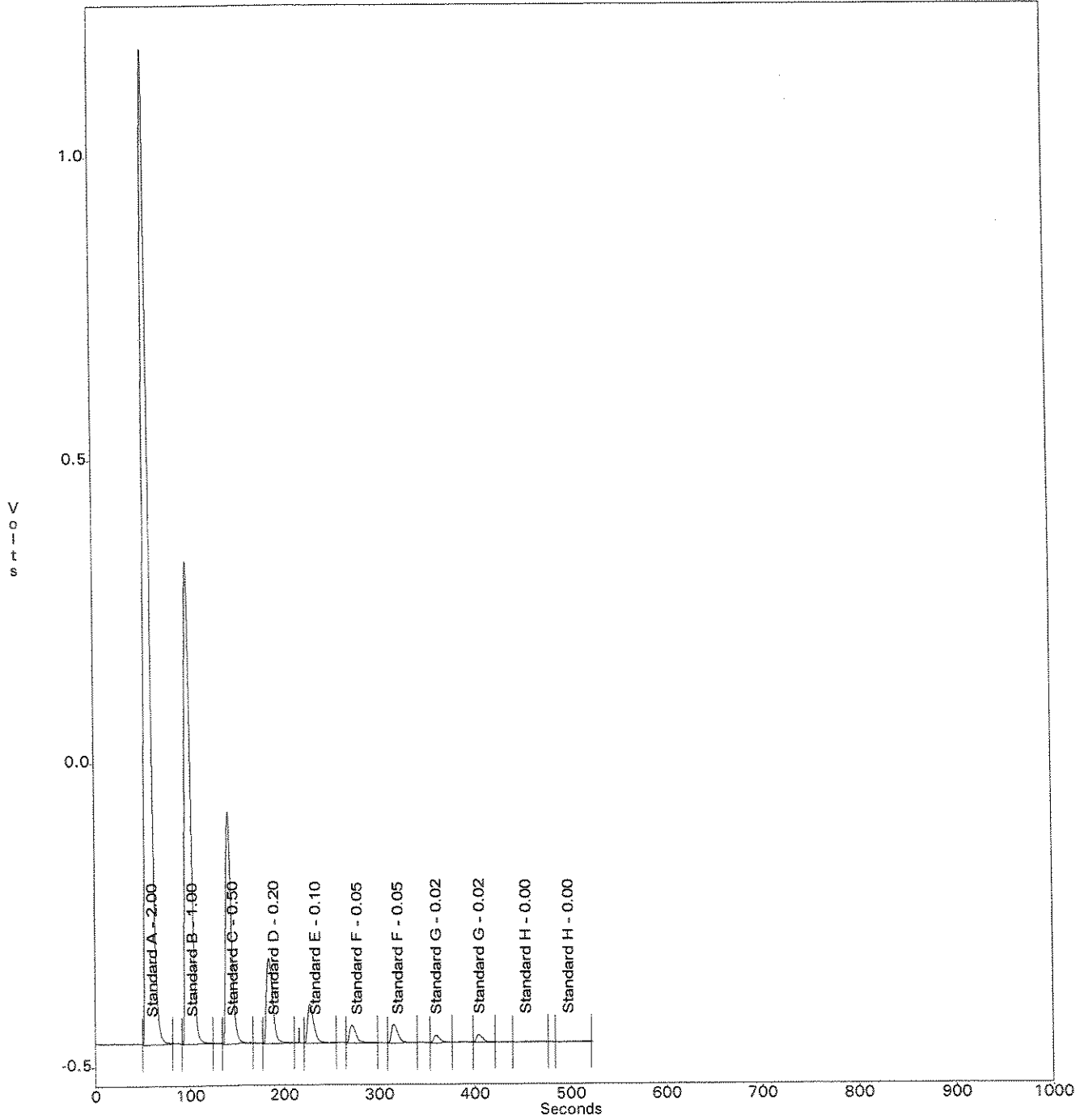
Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
26	1111267	25 Jun 2008	10:16:48	1	0.0365	1.0	1.00
27	1096084SPKRPT1/10TV-04	25 Jun 2008	10:17:31	1	10.5516	10.0	1.00
28	CCV	25 Jun 2008	10:18:13	1	1.4625	1.0	1.00
29	CCB	25 Jun 2008	10:18:56	1	0.0166	1.0	1.00

Handwritten notes:
 O.S.
 1m
 10%
 12/25/08

OPERATOR: NMEAD
ACQ. TIME: Jun 25, 2008 9:49:08
DATA FILENAME: C:\OMNION\DATA\0806250A.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0806250A.TRA

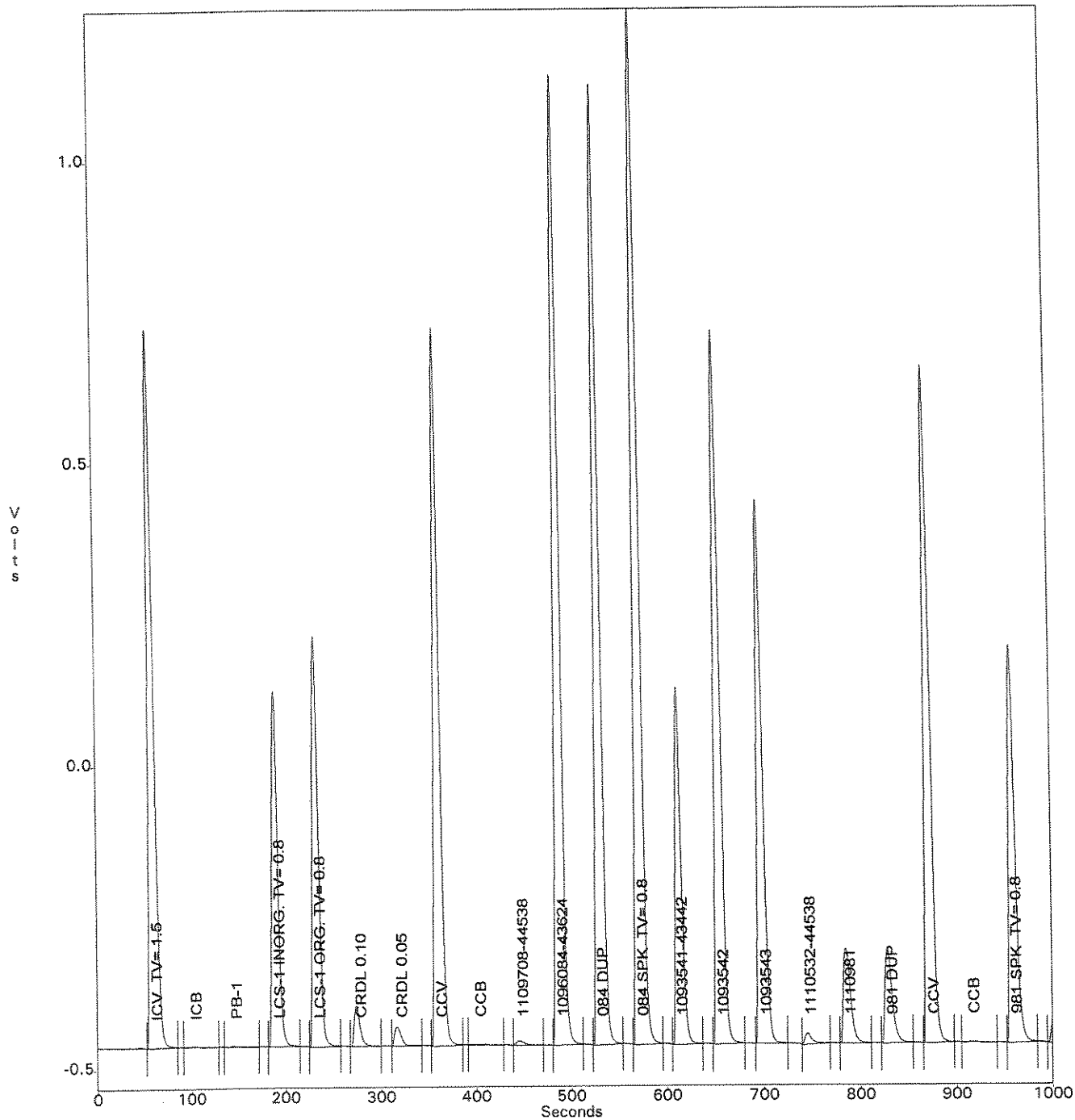
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jun 25, 2008 9:58:54
C:\OMNION\DATA\080625A1.FDT
C:\OMNION\TRAYS\0806250A.TRA

Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR: NMEAD
 ACQ. TIME: Jun 25, 2008 9:49:08
 DATA FILENAME: C:\OMNION\DATA\0806250A.FDT
 METHOD FILENAME: C:\OMNION\METHODS\TPO4B.MET
 TRAY FILENAME: C:\OMNION\TRAYS\0806250A.TRA

TRAY DESCRIPTION:
 Created: Jun 24, 2008 14:39:29
 Modified: Jun 24, 2008 14:39:29
 QC 8000 365.1 TPO4 - RUN LOG - TPO4B 0806250A
 DATA DESCRIPTION:
 Created: Jun 25, 2008 9:49:08
 Modified: Jun 25, 2008 9:49:08

Method - Ch. 1 (QC 8000 365.1 Total Phosphorus)

METHOD DESCRIPTION:
 Created: Feb 25, 2008 14:38:43
 Modified: Jun 18, 2008 11:32:13
 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

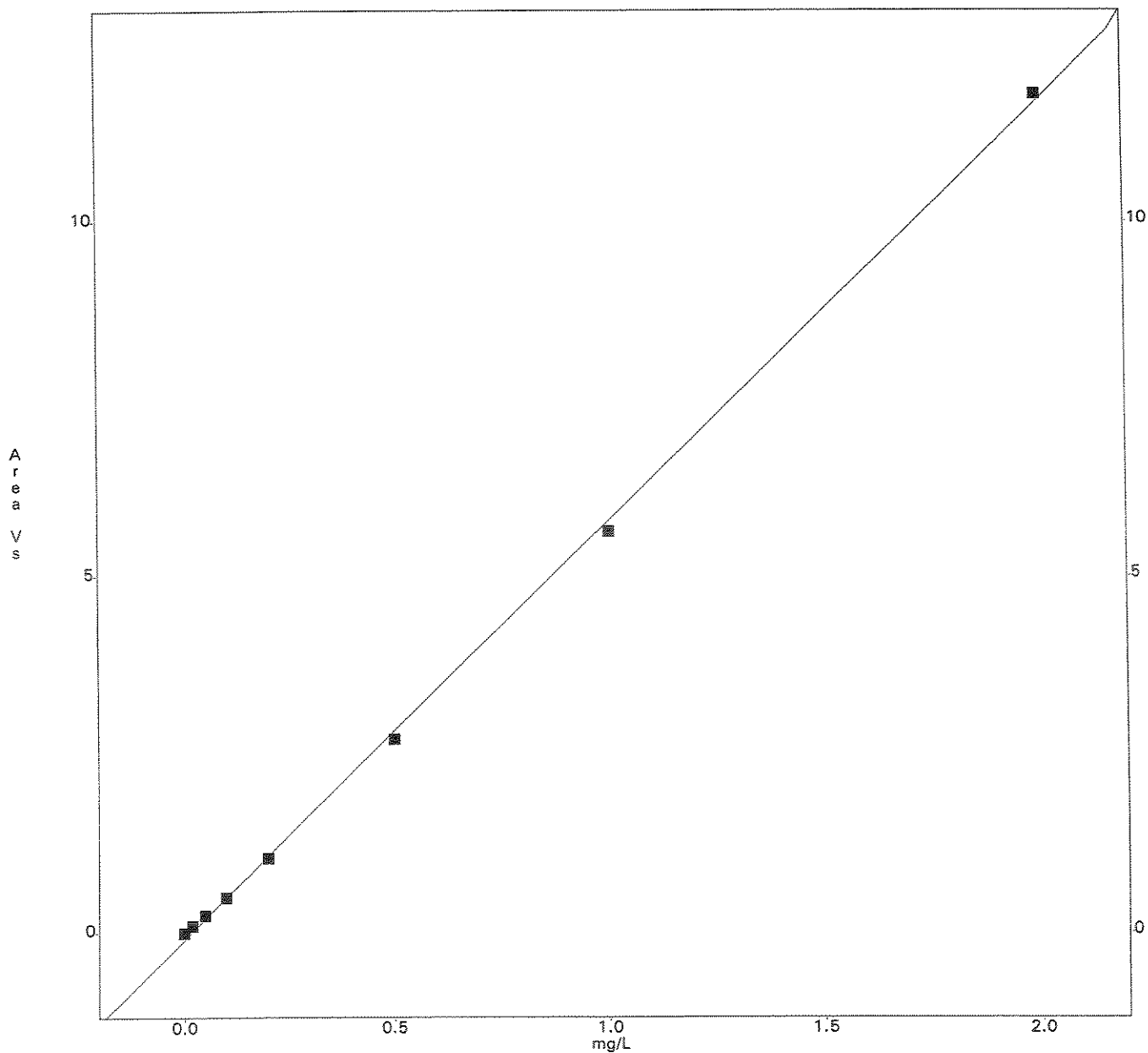
QC 8000 365.1 Total Phosphorus

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	11788041	2.00	11788041					0.0	0.0	-0.9
2	5630898	1.00	5630898					0.0	0.0	2.7
3	2716580	0.50	2716580					0.0	0.0	4.4
4	1042461	0.20	1042461					0.0	0.0	3.2
5	487998	0.10	487998					0.0	0.0	0.6
6	243565	0.05	242982	244147				623.8	0.3	-15.9
7	99061	0.02	96350	101771				3833.2	3.9	-66.9
8	0	0.00	0	0				0.0	0.0	

pipette ID: E-1

1st Order Poly
 Conc = 1.698e-007 Area + 1.656e-002
 r = 0.9997

Scaling: None - Weighting: None



Printed: Wednesday, June 25, 2008 - 09:58 AM

02370

2/26/08 RP (A) C-0250N $\text{Na}_2\text{S}_2\text{O}_3$ - Sulfides

Dilute 50mls 0.1N $\text{Na}_2\text{S}_2\text{O}_3$ (WC85067D) to 200mls volumetrically w/ DI. Store for 2 weeks at 4°C. Exp. 3/11/08

2/26/08 RP (B) TP04 Reg. Level Calibration for 008000

TC (C) make a 10^4 ppm Standard Working Stock by preparing two serial dilutions of the 1000 ppm TP04 Standard Stock (WC720001T)

(C) Cal. Standards - fresh per run

Std	Std Conc. (mg/L)	mls of 10ppm Working Stock (WC720001T)	mls of Carrier/Diluent
A	2.00	2.0	8.0
B	1.00	1.0	9.0
C	0.50 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) ICV/CCV TV=1.50

Add

(D) make a 10ppm Reference Working Stock by preparing two serial dilutions of the 1000ppm TP04 Reference Stock (WC85011F)

(E) TP04 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 TP04-RL LCS/MS TV=0.80ppm

To 25 mls sample of UPDI add 0.20 mls of 10ppm Standard Stock (prepared by making a 1/10 dilution of the 1000ppm Standard Stock (WC720001T) organic LCS is prepared from 100ppm Organic Standard (WC85051H))

ted 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.

1/2 add
cell.

10/9/07
TC

(C) TKN Digest Reagent
To a 2 liter vol. flask add:

- 208.0 g H₂SO₄ (WC85037A)
- 14.6 g Copper II Sulfate (WC85040A)
to ~900 mL UPDI

Slowly add 208 mL conc. in-situ analyzed H₂SO₄
(WC85024E)

Stir until dissolved. Allow to cool. Exp. 1 month 11/9/06

10/9/07
NM

(D) Buffer - NH₃

- same as WC85021D. Exp 1 year, 10/9/08.

10g
B (WC85050E).

10/9/07
GN

(E) NO₂ Color Reagent - Kowalab

- same as WC85032A. Exp 1 month 11/10/07

10g, Cat# ZX0048-1,
#5-6. Store @ RT.

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 1
volume w/UPDI. mix thoroughly. Store @ RT in
amber glass. Exp. 11/9/07.

10g, Cat# 2533-35,
WC85017G.

(G) Hypochlorite - TKN

- same as ~~WC85047~~ WC85049G. Prepare fresh each run.

10g,
CAS# 108-95-2.

10/10/07
TC

(H) 100ppm Organic Phosphorous Standard - TPO4

In a 1 liter vol. flask dissolve 0.9885g
β-Glycophosphoric acid, Disodium Salt, 5-Hydrate
(WC76143D) in DI. Bring to vol. w/ DI. Store in
amber glass @ 4°C. Exp. 1 yr. 10/10/09.

1) brought
- fresh

id
2/07

or (HYPO)

Br)

ly dried @ 104°C for 1hr
11/9/08

title add:

adjust pH
xp 1yr. 11/9/08.

dimetrically
title @ 4°C.

Amelutator Solutions

(A) 0.100N KIO₃

In a 2L vol. flask, dissolve 42.8g KIO₃ (WC25067E) 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 (WC85046H) and bring to volume with DI. Store at RT. Exp 11/9/08

(C) Sulfanilamide Color Reagent - TKN

To a towel 1 liter amber bottle add:

- 78g DI
- 15g H₂O₂ (WC76294E)
- 0.9g ^{NEO} ~~FB~~ (WC762084)
- 36g Sulfanilamide (WC76161G)

Stir until dissolved. Store at RT. exp. 1 month, 11/9/08.

11/2/07 (D) TKN Digest Reagent

TC

In a 2 liter vol. flask dissolve:
- 268g K₂SO₄ (WC85066D)
- 14.6g CuSO₄ (WC85040A)
- 268 ml conc. emul trace H₂SO₄ (WC85067G)
in UPPI. Stir until dissolved. Cool and bring to vol. w/ UPPI. Exp. 1 month, 11/2/07.

(E) TSS Reference

11/2/07
RP

0.2230 g Kriolin (WC69285G) brought to 1000g w/ DI. Stored at 4°C in a plastic bottle.

TV = 223 mg/L exp. 11/2/08

(F) TP04 1000 ppm Reference Stock

11/2/07
TC

4.394g KH₂PO₄ (WC85054G) previously dried for 2 hours @ 104°C. Dissolve in ~800 ml DI in a 1 liter vol. flask. Bring to vol. w/ DI. Store in amber glass @ 4°C. for 1yr. Exp 11/2/08.

(G) 100ppm Iodate Titrant for Sulfites

11/2/07

0.4450g KIO₃ (WC69234F) + 4.25g KI (WC76272E) + 0.310g NaHCO₃ (WC76115E) diluted to 1L in vol. flask with DI. Store at 4°C. exp 11/2/08

STANDARD STOCK PREP

(Fluoride and Bromide are purchased 1000ppm standards)

By: CU / CA / CA
 Date: 5/9/05 / 7/19/06 / 10/16/07

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	2/14/07	WC72001C
D	WC76105F	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	WC69234I	TC	2/22/06	2/22/07	WC72001H
I	WC69234I	FN	2/5/07	2/11/08	WC72001I
J	WC85099D	NIM	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.

ID Letter	KNO3 Source	Chloroform Source ID	Analyst	Date Prepared	Date Expires	Final NO3 1000ppm Stock ID
3* K	WC65173D	WC69078E	BB	8/10/04	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	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 Liter 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	BB	2/23/05	2/23/06	WC72001Q
R	WC69196E	TC	2/21/06	2/21/07	WC72001R
S	WC69245I	TC	2/23/07	2/23/08	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	BD	2/23/05	2/23/06	WC72001V
W	WC65018A	TC	2/22/06	2/22/07	WC72001W
X	WC70015A	FN	2/5/07	2/5/08	WC72001X
Y	WC6153E	NIM	1/31/08	1/31/09	WC72001Y

5* Previously WC69085A

R44538
 R44650
 R44666
 36000

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
CHK1		1114017	WATER	1.50	1.0	0.0500	99.7		07/02/2008		
BLK1		1114019	WATER	0.0500	U	1.0	0.0500		07/02/2008		
BLK2		1114020	WATER	0.0500	U	1.0	0.0500		07/02/2008		
SPKB		1114022	WATER	0.803		1.0	0.0500	100.4	07/02/2008		
BLK2		1114023	WATER	0.0500	U	1.0	0.0500		07/02/2008		
SPKB		1114024	WATER	0.806		1.0	0.0500	100.8	07/02/2008		
ESMP	R2843432	1093427	WATER	38.6		20.0	0.0500		07/02/2008		1
ESMP	R2843432	1093430	WATER	3.24		2.0	0.0500		07/02/2008		1
ESMP	R2844538	1111763	WATER	0.0500	U	1.0	0.0500		07/02/2008	RUN	ASPB
LDUP		1114027	WATER	0.0500	U	1.0	0.0500		07/02/2008		
SPK1		1114028	WATER	0.823		1.0	0.0500	102.8	07/02/2008		
ESMP	R2844538	1111764	WATER	0.0500	U	1.0	0.0500		07/02/2008	RUN	ASPB
ESMP	R2844538	1111765	WATER	0.110		1.0	0.0500		07/02/2008	RUN	ASPB
ESMP	R2844641	1111908	WATER	304		200.0	0.0500		07/02/2008		1
ESMP	R2844645	1111971	WATER	0.691		1.0	0.0500		07/02/2008		1
ESMP	R2844650	1112065	WATER	0.0500	U	1.0	0.0500		07/02/2008	RUN	ASPB
ESMP	R2844650	1112066	WATER	0.0500	U	1.0	0.0500		07/02/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.0500	U	1.0	0.0500		07/02/2008	RUN	ASPB
ESMP	R2843626	1096090	WATER	6.14		5.0	0.0500		07/02/2008	QC	2
LDUP		1114029	WATER	6.12		5.0	0.0500	0.27	07/02/2008		
SPK1		1114030	WATER	10.3		10.0	0.0500	103.6	07/02/2008		
ESMP	R2844647	1112012	WATER	45.9		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112013	WATER	30.0		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112014	WATER	40.0		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112015	WATER	55.6		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112016	WATER	105		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112017	WATER	177		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112018	WATER	126		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112019	WATER	113		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112028	WATER	30.9		100.0	0.0500		07/02/2008	RUN	2
LDUP		1114031	WATER	29.5		100.0	0.0500	4.55	07/02/2008		
SPK1		1114032	WATER	113		100.0	0.0500	102.4	07/02/2008		
ESMP	R2844647	1112029	WATER	28.9		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112030	WATER	32.0		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112031	WATER	44.8		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112032	WATER	60.5		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112033	WATER	108		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112034	WATER	67.9		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112035	WATER	63.8		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112111	SOLID	643		10.0	5.00		07/02/2008	RUN	2
BLK2		1114025	SOLID	5.00	U	1.0	5.00		07/02/2008		
SPKS		1114026	SOLID	78.9		1.0	5.00	98.6	07/02/2008		
ESMP	R2844647	1112112	SOLID	554		10.0	5.00		07/02/2008	RUN	2
ESMP	R2844647	1112113	WATER	303		400.0	0.0500		07/02/2008	RUN	2
ESMP	R2844647	1112114	WATER	127		100.0	0.0500		07/02/2008	RUN	2
ESMP	R2844666	1112361	SOIL/SEDIME	786		10.0	5.00		07/02/2008		ASPB
ESMP	R2844666	1112362	SOIL/SEDIME	743		10.0	5.00		07/02/2008	QC	ASPB
LDUP		1114035	SOIL/SEDIME	780		10.0	5.00	4.83	07/02/2008		
SPK1		1114036	SOIL/SEDIME	827		10.0	5.00	105.6	07/02/2008		
ESMP	R2844666	1112363	SOIL/SEDIME	500		10.0	5.00		07/02/2008		ASPB
ESMP	R2844666	1112364	SOIL/SEDIME	474		10.0	5.00		07/02/2008		ASPB

Reviewed & Approved
 By: *CH*
 Date: *7/2/08*

<u>TYPE</u>	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>RESULT</u>		<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
ESMP	R2844666	1112365	SOIL/SEDIME	103		1.0	5.00			07/02/2008		ASPB
ESMP	R2844650	1112486	WATER	0.749		1.0	0.0500			07/02/2008	RUN	ASPB
ESMP	R2844650	1112487	WATER	0.0857		1.0	0.0500			07/02/2008	RUN	ASPB
ESMP	R2844650	1112488	WATER	0.0500	U	1.0	0.0500			07/02/2008	RUN	ASPB
LDUP		1114033	WATER	0.0500	U	1.0	0.0500			07/02/2008		
SPK1		1114034	WATER	0.833		1.0	0.0500	104.2		07/02/2008		
ESMP	R2844650	1112489	WATER	0.286		1.0	0.0500			07/02/2008	RUN	ASPB
ESMP	R2844666	1113245	SOIL/SEDIME	770		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113249	SOIL/SEDIME	900		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113250	SOIL/SEDIME	796		10.0	5.00			07/02/2008	QC	ASPB
LDUP		1114037	SOIL/SEDIME	749		10.0	5.00		6.02	07/02/2008		
SPK1		1114038	SOIL/SEDIME	830		10.0	5.00	44.7		07/02/2008		
ESMP	R2844666	1113254	SOIL/SEDIME	373		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113255	SOIL/SEDIME	504		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113256	SOIL/SEDIME	921		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113257	SOIL/SEDIME	785		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113258	SOIL/SEDIME	460		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113259	SOIL/SEDIME	509		10.0	5.00			07/02/2008		ASPB
ESMP	R2844666	1113262	SOIL/SEDIME	779		10.0	5.00			07/02/2008		ASPB

Records printed: 70

Creator: NMEAD

Creation Date: Jul 1, 2008 14:36:21

Last Modified: Jul 2, 2008 10:16:29

Description: QC 8000 365.1 TPO4 - RUN LOG - TPO4B 0807020A

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-3 (6/27)	1.0000	Unknown	
4	LCS-3INORG (6/27)TV=0.8	1.0000	Unknown	
5	LCS-3 ORG (6/27) TV = 0.8	1.0000	Unknown	
6	PB-4 (6/27)	1.0000	Unknown	
7	LCS-4 INORG (6/27)	1.0000	Unknown	
8	LCS-4 ORG (6/27)	1.0000	Unknown	
9	PB-S (6/30)	1.0000	Unknown	- Bad integration - rpt @ #90
10	PB-S INORG (6/30) TV = 80	1.0000	Unknown	
11	PB-S ORG (6/30) 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	- Bad integration - rpt @ #91
16	1093427-43432	1.0000	Unknown	- rpt @ #92 1/20
17	1093430	1.0000	Unknown	- rpt @ #93 - 1/2
18	1111763-44538	1.0000	Unknown	
19	763 DUP	1.0000	Unknown	
20	763 SPK TV = 0.8	1.0000	Unknown	
21	1111764	1.0000	Unknown	
22	1111765	1.0000	Unknown	
23	1111908-44641	5.0000	Unknown	- rpt @ #94 - 1/100
24	CCV	1.0000	Unknown	
25	CCB	1.0000	Unknown	
26	1111971-44645	1.0000	Unknown	
27	1112065-44650	1.0000	Unknown	
28	1112066	1.0000	Unknown	
29	1112067	1.0000	Unknown	
30	1096090-43626	5.0000	Unknown	> include 1/5 dil @ dig est
31	090 DUP	5.0000	Unknown	
32	090 SPK TV = 4.0	5.0000	Unknown	- rpt @ #95 - 1/10

Cup #	Sample ID	Manual Dilution	Sample Type	
33	1112012-44647	100.0000	Unknown	} include 1/100 dil. @ digest
34	1112013	100.0000	Unknown	
35	1112014	100.0000	Unknown	
36	CCV	1.0000	Unknown	
37	CCB	1.0000	Unknown	
38	1112015	100.0000	Unknown	} include 1/100 dil. @ digest
39	1112016	100.0000	Unknown	
40	1112017	100.0000	Unknown	
41	1112018	100.0000	Unknown	
42	1112019	100.0000	Unknown	
43	1112028	100.0000	Unknown	
44	028 DUP	100.0000	Unknown	
45	028 SPK TV = 80.0	100.0000	Unknown	
46	1112029	100.0000	Unknown	
47	1112030	100.0000	Unknown	
48	CCV	1.0000	Unknown	
49	CCB	1.0000	Unknown	
50	1112031	100.0000	Unknown	} include 1/100 dil. @ digest
51	1112032	100.0000	Unknown	
52	1112033	100.0000	Unknown	
53	1112034	100.0000	Unknown	
54	1112035	100.0000	Unknown	
55	1112113	100.0000	Unknown	- rpt @ # 98 - 1/400
56	1112114	100.0000	Unknown	- includes 1/100 dil. @ digest
57	1112486-44650	1.0000	Unknown	
58	1112487	1.0000	Unknown	
59	1112488	1.0000	Unknown	
60	CCV	1.0000	Unknown	
61	CCB	1.0000	Unknown	
62	488 DUP	1.0000	Unknown	
63	488 SPK TV = 0.8	1.0000	Unknown	
64	1112489	1.0000	Unknown	
65	1112111S-44647	10.0000	Unknown	Soil: 0.26g → 25 mL
66	1112112S	10.0000	Unknown	0.25g → ↓
67	1112361S-44666	10.0000	Unknown	0.26g → ↓
68	1112362S	10.0000	Unknown	- air spike - rpt @ # 99
69	362S DUP	10.0000	Unknown	Soil: 0.25g → 25 mL
70	362S SPK TV = 80	10.0000	Unknown	0.25g → ↓
71	1112363S	10.0000	Unknown	0.25g → ↓
72	CCV	1.0000	Unknown	
73	CCB	1.0000	Unknown	
74	1112364S	10.0000	Unknown	Soil: 0.26g → 25 mL
75	1112365S	10.0000	Unknown	- rpt @ # 100 - str.
76	1113245S	10.0000	Unknown	Soil: 0.29g → 25 mL
77	1113249S	10.0000	Unknown	0.30g → ↓

Cup #	Sample ID	Manual Dilution	Sample Type	
78	1113250S	10.0000	Unknown soil	0.25g → 25 mL
79	250S DUP	10.0000	Unknown	0.25g →
80	250S SPK TV = 76.9	10.0000	Unknown	0.26g →
81	1113254S	10.0000	Unknown	0.25g →
82	1113255S	10.0000	Unknown	0.27g →
83	1113256S	10.0000	Unknown	0.27g →
84	CCV	1.0000	Unknown	
85	CCB	1.0000	Unknown	
86	1113257S	10.0000	Unknown soil	0.25g → 25 mL
87	1113258S	10.0000	Unknown	0.27g →
88	1113259S	10.0000	Unknown	0.25g →
89	1113262S	10.0000	Unknown	0.26g →
90	PB-SOIL RPT	1.0000	Unknown	
91	CRDL - 0.05 RPT	1.0000	Unknown	
92	1093427 RPT 1/20	20.0000	Unknown	
93	1093430 RPT 1/2	2.0000	Unknown	
94	1111908 RPT 1/100	100.0000	Unknown	- rpt @ #101 - 1/200
95	1096090SPKRPT1/10TV = 4	10.0000	Unknown	- includes 1/5 dil @ diges
96	CCV	1.0000	Unknown	
97	CCB	1.0000	Unknown	
98	1112113 RPT 1/400	400.0000	Unknown	- includes 1/100 dil @ diges
99	1112362S RPT 1/10	10.0000	Unknown	soil: 0.25g → 25 mL
100	1112365S RPT STR	1.0000	Unknown	soil: 0.28g → 25 mL
101	1111908 RPT 1/200	200.0000	Unknown	- includes 1/5 dil @ diges
102	CCV	1.0000	Unknown	
103	CCB	1.0000	Unknown	

Columbia Analytical Services
 1 Mustard Street
 Rochester, NY 14609

Analyte: TPO4 Digest
 Analyst: B. Bove
 Pipet ID: E-2

Low Level / Regular Level
 Date: 6/30/08
 Spk Witness: Shp

#	Submission #	Order #	Sample Amt (mLs/g)	Dilution	Spk Amount	Comments
1		PA-5	0.25 → 25			
2		LPS-5 inc	0.25 → 25		0.200	100 ppm
3		LPS-5 org	0.25 → 25		0.200	100 ppm
4	44647	R-1112111	0.26 → 25			
5		112	0.25 → 25			
6	44666	R-1112361	0.26 → 25			
7		362	0.25			
8		-dup	0.25			
9		-spk	0.25		0.200	100 ppm
10		363	0.25			
11		364	0.26			
12		265	0.28			
13		R-1113245	0.29			
14		249	0.30			
15		250	0.25			
16		-dup	0.25			
17		-spk	0.26		0.200	100 ppm
18		254	0.25			
19		255	0.27			
20		256	0.27			
21		257	0.25			
22		258	0.27			
23		259	0.25			
24		262	0.26			
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Columbia Analytical Services
 1 Mustard Street
 Rochester, NY 14609

Analyte: TPO4 Digest Low Level / Regular Level
 Analyst: B. Bowe Date: 6/27/08
 Pipet ID: E-2, ALT Spk Witness: TC
 BB 6/27/08

#	Submission #	Order #	Sample Amt (mLs/g)	Dilution	Spk Amount	Comments
1		PB3	25	Str		
2		LAS3 inorg			0.200	100 ppm
3		LAS3 org			0.200	100 ppm
4	43432	R-1093427				
5		↳ 430				
6	44538	R-1111763				
7		-Dup				
8		-Spk			0.200	100 ppm
9		↳ 764				
10		↳ 765				
11	44641	R-1111908	5 mL → 25	5		*Phosphate buffered saline; low volume
12	44645	R-1111971	25	Str		
13	44650	R-1112065				
14		066				
15		↳ 067				
16	43626	R-1096090	5 mL → 25	5		
17		-Dup		5		
18		-Spk		5	0.200	100 ppm
19	44647	R-1112012	0.25 mL → 25	100		
20		013	25			
21		014				
22		015				
23		016				
24		017				
25		018				
26		019				
27		028				
28		-Dup				
29		-Spk			0.200	100 ppm
30		PB4				
31		LAS4 inorg			0.200	100 ppm
32		LAS4 org			0.200	100 ppm
33		R-1112029				
34		030				
35		031				
36		032				
37		033				
38		034				
39		035				
40		113				
41		↳ 114				
42	44650	R-1112486		Str		
43		487				
44		488				
45		-Dup				
46		-Spk				
47		↳ 489				
48						
49						
50						

OPERATOR: NMEAD
 ACQ. TIME: Jul 2, 2008 9:05:30
 DATA FILENAME: C:\OMNION\DATA\080702A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807020A.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	02 Jul 2008	09:05:33	1	1.4952	1.0	1.00
2	ICB	02 Jul 2008	09:06:17	1	0.0099	1.0	1.00
3	PB-3 (6/27)	02 Jul 2008	09:07:00	1	0.0099	1.0	1.00
4	LCS-3INORG (6/27)TV=0.8	02 Jul 2008	09:07:44	1	0.8029	1.0	1.00
5	LCS-3 ORG (6/27) TV= 0.8	02 Jul 2008	09:08:27	1	0.8416	1.0	1.00
6	PB-4 (6/27)	02 Jul 2008	09:09:10	1	0.0099	1.0	1.00
7	LCS-4 INORG (6/27)	02 Jul 2008	09:09:52	1	0.8064	1.0	1.00
8	LCS-4 ORG (6/27)	02 Jul 2008	09:10:35	1	0.8322	1.0	1.00
9	PB-S (6/30)	02 Jul 2008	09:11:18	1	0.0110	1.0	1.00 -Bad integration - rpt@#90
10	PB-S INORG (6/30) TV=80	02 Jul 2008	09:12:00	1	0.7887	1.0	1.00 = 78.87
11	PB-S ORG (6/30) TV= 80	02 Jul 2008	09:12:43	1	0.8235	1.0	1.00 = 82.35
12	CCV	02 Jul 2008	09:13:25	1	1.4802	1.0	1.00
13	CCB	02 Jul 2008	09:14:07	1	0.0099	1.0	1.00
14	CRDL - 0.10	02 Jul 2008	09:14:48	1	0.0981	1.0	1.00
15	CRDL - 0.05	02 Jul 2008	09:15:30	1	0.0126	1.0	1.00 -Bad integration - rpt@#91
16	1093427-43432	02 Jul 2008	09:16:13	1	17.6274	1.0	1.00 -rpt@#92-1/20
17	1093430	02 Jul 2008	09:16:57	1	3.1606	1.0	1.00 -rpt@#93-1/2
18	1111763-44538	02 Jul 2008	09:17:41	1	0.0351	1.0	1.00
19	763 DUP	02 Jul 2008	09:18:24	1	0.0271	1.0	1.00
20	763 SPK TV= 0.8	02 Jul 2008	09:19:07	1	0.8227	1.0	1.00
21	1111764	02 Jul 2008	09:19:51	1	0.0331	1.0	1.00
22	1111765	02 Jul 2008	09:20:36	1	0.1104	1.0	1.00
23	1111908-44641	02 Jul 2008	09:21:17	1	108.8082	5.0	1.00 -rpt@#94-1/100
24	CCV	02 Jul 2008	09:22:00	1	1.4998	1.0	1.00
25	CCB	02 Jul 2008	09:22:42	1	0.0214	1.0	1.00

oil: 59
 15g →

OPERATOR: NMEAD
 ACQ. TIME: Jul 2, 2008 9:05:30
 DATA FILENAME: C:\OMNION\DATA\080702A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807020A.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	1111971-44645	02 Jul 2008	09:23:25	1	0.6908	1.0	1.00
27	1112065-44650	02 Jul 2008	09:24:07	1	0.0301	1.0	1.00
28	1112066	02 Jul 2008	09:24:49	1	0.0346	1.0	1.00
29	1112067	02 Jul 2008	09:25:31	1	0.0145	1.0	1.00
30	1096090-43626	02 Jul 2008	09:26:12	1	6.1366	5.0	1.00
31	090 DUP	02 Jul 2008	09:26:56	1	6.1236	5.0	1.00
32	090 SPK TV= 4.0	02 Jul 2008	09:27:39	1	10.1248	5.0	1.00
33	1112012-44647	02 Jul 2008	09:28:23	1	45.9152	100.0	1.00
34	1112013	02 Jul 2008	09:29:07	1	29.9570	100.0	1.00
35	1112014	02 Jul 2008	09:29:50	1	40.0409	100.0	1.00
36	CCV	02 Jul 2008	09:30:34	1	1.4987	1.0	1.00
37	CCB	02 Jul 2008	09:31:17	1	0.0099	1.0	1.00
38	1112015	02 Jul 2008	09:32:00	1	55.5840	100.0	1.00
39	1112016	02 Jul 2008	09:32:43	1	105.3262	100.0	1.00
40	1112017	02 Jul 2008	09:33:25	1	176.7214	100.0	1.00
41	1112018	02 Jul 2008	09:34:08	1	126.1802	100.0	1.00
42	1112019	02 Jul 2008	09:34:50	1	113.1020	100.0	1.00
43	1112028	02 Jul 2008	09:35:33	1	30.9283	100.0	1.00
44	028 DUP	02 Jul 2008	09:36:15	1	29.5252	100.0	1.00
45	028 SPK TV= 80.0	02 Jul 2008	09:36:58	1	112.7857	100.0	1.00
46	1112029	02 Jul 2008	09:37:42	1	28.8851	100.0	1.00
47	1112030	02 Jul 2008	09:38:25	1	32.0455	100.0	1.00
48	CCV	02 Jul 2008	09:39:09	1	1.4998	1.0	1.00
49	CCB	02 Jul 2008	09:39:52	1	0.0099	1.0	1.00
50	1112031	02 Jul 2008	09:40:36	1	44.7680	100.0	1.00

include 1/5 dil. @ digest
 - rpt @ # 95 - 1/10

include 1/100 dil. @ digest

include 1/100 dil. @ digest

- includes 1/100 dil. @ digest

OPERATOR: NMEAD
 ACQ. TIME: Jul 2, 2008 9:05:30
 DATA FILENAME: C:\OMNION\DATA\080702A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807020A.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	1112032	02 Jul 2008	09:41:19	1	60.4743	100.0	1.00	} include 1/100 dil. @ digest	
52	1112033	02 Jul 2008	09:42:03	1	108.2161	100.0	1.00		
53	1112034	02 Jul 2008	09:42:47	1	67.8994	100.0	1.00		
54	1112035	02 Jul 2008	09:43:29	1	63.8138	100.0	1.00		
55	1112113	02 Jul 2008	09:44:12	1	309.2567	100.0	1.00		- rpt @ # 98 - 1/400
56	1112114	02 Jul 2008	09:44:54	1	127.4476	100.0	1.00		- includes 1/100 dil. @ digest
57	1112486-44650	02 Jul 2008	09:45:37	1	0.7494	1.0	1.00		
58	1112487	02 Jul 2008	09:46:19	1	0.0857	1.0	1.00		
59	1112488	02 Jul 2008	09:47:02	1	0.0246	1.0	1.00		
60	CCV	02 Jul 2008	09:47:44	1	1.5043	1.0	1.00		
61	CCB	02 Jul 2008	09:48:29	1	0.0099	1.0	1.00		
62	488 DUP	02 Jul 2008	09:49:14	1	0.0227	1.0	1.00		
63	488 SPK TV= 0.8	02 Jul 2008	09:49:57	1	0.8333	1.0	1.00		
64	1112489	02 Jul 2008	09:50:41	1	0.2860	1.0	1.00		
soil → 65	1112111S-44647	02 Jul 2008	09:51:25	1	6.6851	10.0	1.00	= 642.80	
36g → 66	1112112S	02 Jul 2008	09:52:08	1	5.5433	10.0	1.00	= 554.33	
36g → 67	1112361S-44666	02 Jul 2008	09:52:52	1	8.1699	10.0	1.00	= 785.57	
68	1112362S	02 Jul 2008	09:53:35	1	7.4554	10.0	1.00	- air spike - rpt @ #99	
36g → 69	362S DUP	02 Jul 2008	09:54:19	1	7.7975	10.0	1.00	= 779.75	
36g → 70	362S SPK TV= 80	02 Jul 2008	09:55:01	1	8.2746	10.0	1.00	= 827.46	
36g → 71	1112363S	02 Jul 2008	09:55:44	1	4.9991	10.0	1.00	= 499.91	
72	CCV	02 Jul 2008	09:56:27	1	1.5093	1.0	1.00		
73	CCB	02 Jul 2008	09:57:09	1	0.0099	1.0	1.00		
36g → 74	1112364S	02 Jul 2008	09:57:52	1	4.9332	10.0	1.00	= 474.35	
75	1112365S	02 Jul 2008	09:58:34	1	1.1867	10.0	1.00	- rpt @ # 100 - str.	

OPERATOR: NMEAD
 ACQ. TIME: Jul 2, 2008 9:05:30
 DATA FILENAME: C:\OMNION\DATA\080702A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807020A.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	
29g → 76	1113245S	02 Jul 2008	09:59:19	1	8.9337	10.0	1.00	= 770.15
30g → 77	1113249S	02 Jul 2008	10:00:04	1	10.8004	10.0	1.00	= 900.03
25g → 78	1113250S	02 Jul 2008	10:00:48	1	7.9562	10.0	1.00	= 795.62
15g → 79	250S DUP	02 Jul 2008	10:01:32	1	7.4948	10.0	1.00	= 749.48
16g → 80	250S SPK TV= 76.9	02 Jul 2008	10:02:15	1	8.6358	10.0	1.00	= 830.37
25g → 81	1113254S	02 Jul 2008	10:02:59	1	3.7349	10.0	1.00	= 373.49
17g → 82	1113255S	02 Jul 2008	10:03:42	1	5.4423	10.0	1.00	= 503.92
17g → 83	1113256S	02 Jul 2008	10:04:26	1	9.9471	10.0	1.00	= 921.03
84	CCV	02 Jul 2008	10:05:10	1	1.5221	1.0	1.00	
85	CCB	02 Jul 2008	10:05:53	1	0.0099	1.0	1.00	
25g → 86	1113257S	02 Jul 2008	10:06:36	1	7.8494	10.0	1.00	= 784.94
17g → 87	1113258S	02 Jul 2008	10:07:18	1	4.9685	10.0	1.00	= 460.05
15g → 88	1113259S	02 Jul 2008	10:08:01	1	5.0865	10.0	1.00	= 508.65
16g → 89	1113262S	02 Jul 2008	10:08:43	1	8.0977	10.0	1.00	= 778.63
90	PB-SOIL RPT	02 Jul 2008	10:09:26	1	0.0277	1.0	1.00	
91	CRDL - 0.05 RPT	02 Jul 2008	10:10:11	1	0.0586	1.0	1.00	-okay
92	1093427 RPT 1/20	02 Jul 2008	10:10:55	1	38.6127	20.0	1.00	
93	1093430 RPT 1/2	02 Jul 2008	10:11:40	1	3.2457	2.0	1.00	
94	1111908 RPT 1/100	02 Jul 2008	10:12:24	1	302.4572	100.0	1.00	- rpt @ #101 - 1/200
95	1096090 SPKRPT 1/10 TV=4	02 Jul 2008	10:13:09	1	10.2852	10.0	1.00	- includes 1/5 dil @ digest
96	CCV	02 Jul 2008	10:13:53	1	1.5101	1.0	1.00	
97	CCB	02 Jul 2008	10:14:43	1	0.0099	1.0	1.00	
98	1112113 RPT 1/400	02 Jul 2008	10:15:26	1	302.9546	400.0	1.00	- includes 1/100 dil @ digest
25g → 99	1112362S RPT 1/10	02 Jul 2008	10:16:10	1	7.4308	10.0	1.00	nm 7/2/08 = 743.08
28g → 100	1112365S RPT STR	02 Jul 2008	10:16:53	1	1.1498	1.0	1.00	= 102.66

OPERATOR: NMEAD
 ACQ. TIME: Jul 2, 2008 9:05:30
 DATA FILENAME: C:\OMNION\DATA\080702A1.FDT
 TRAY FILENAME: C:\OMNION\TRAYS\0807020A.TRA

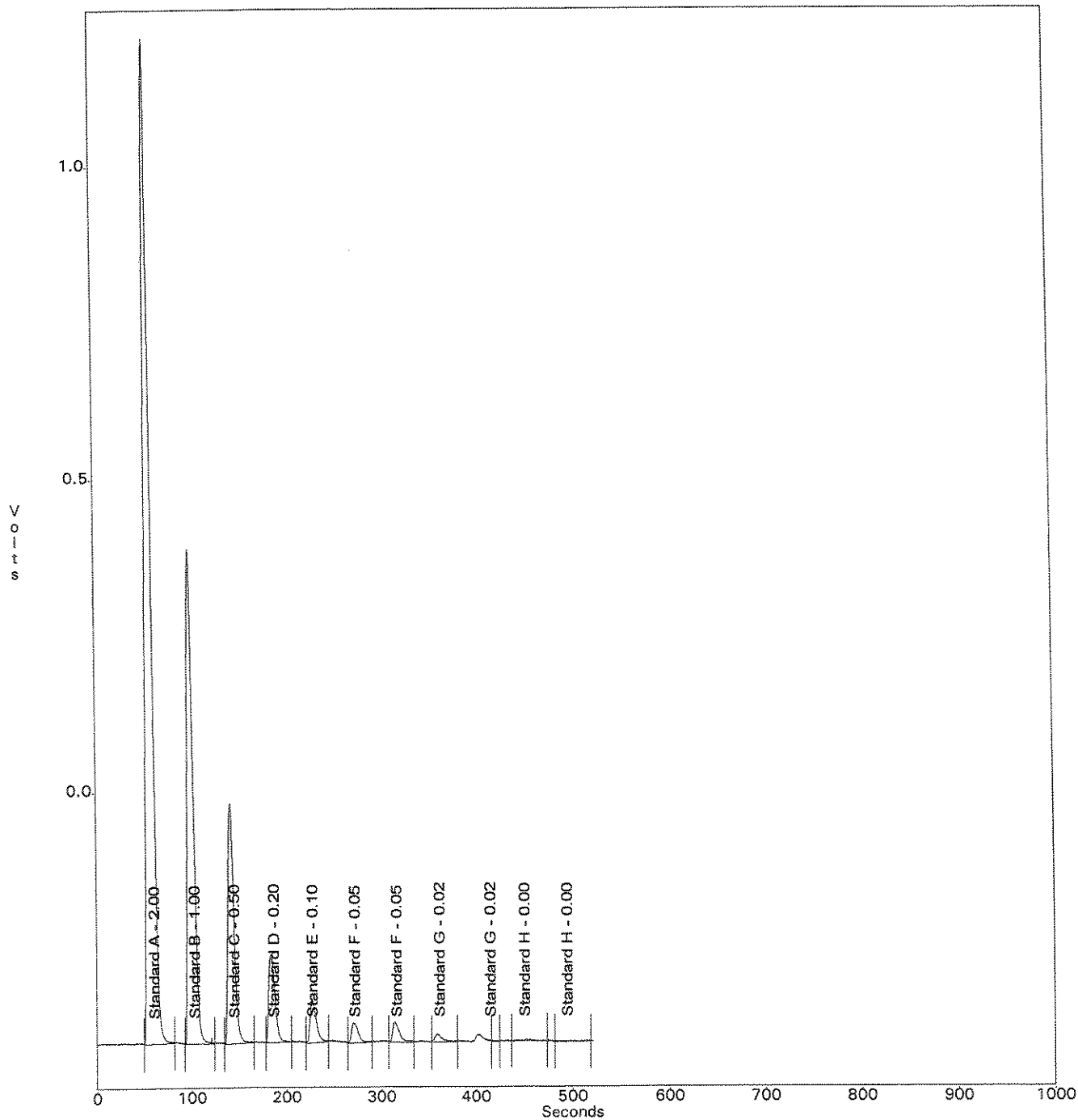
Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 101 to 125

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
101	1111908 RPT 1/200	02 Jul 2008	10:17:37	1	304.0251	200.0	1.00
102	CCV	02 Jul 2008	10:18:21	1	1.5093	1.0	1.00
103	CCB	02 Jul 2008	10:19:04	1	0.0099	1.0	1.00

-includes 1/5 dil. @ digest

OPERATOR: NMEAD
ACQ. TIME: Jul 2, 2008 8:44:56
DATA FILENAME: C:\OMNION\DATA\0807020A.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807020A.TRA

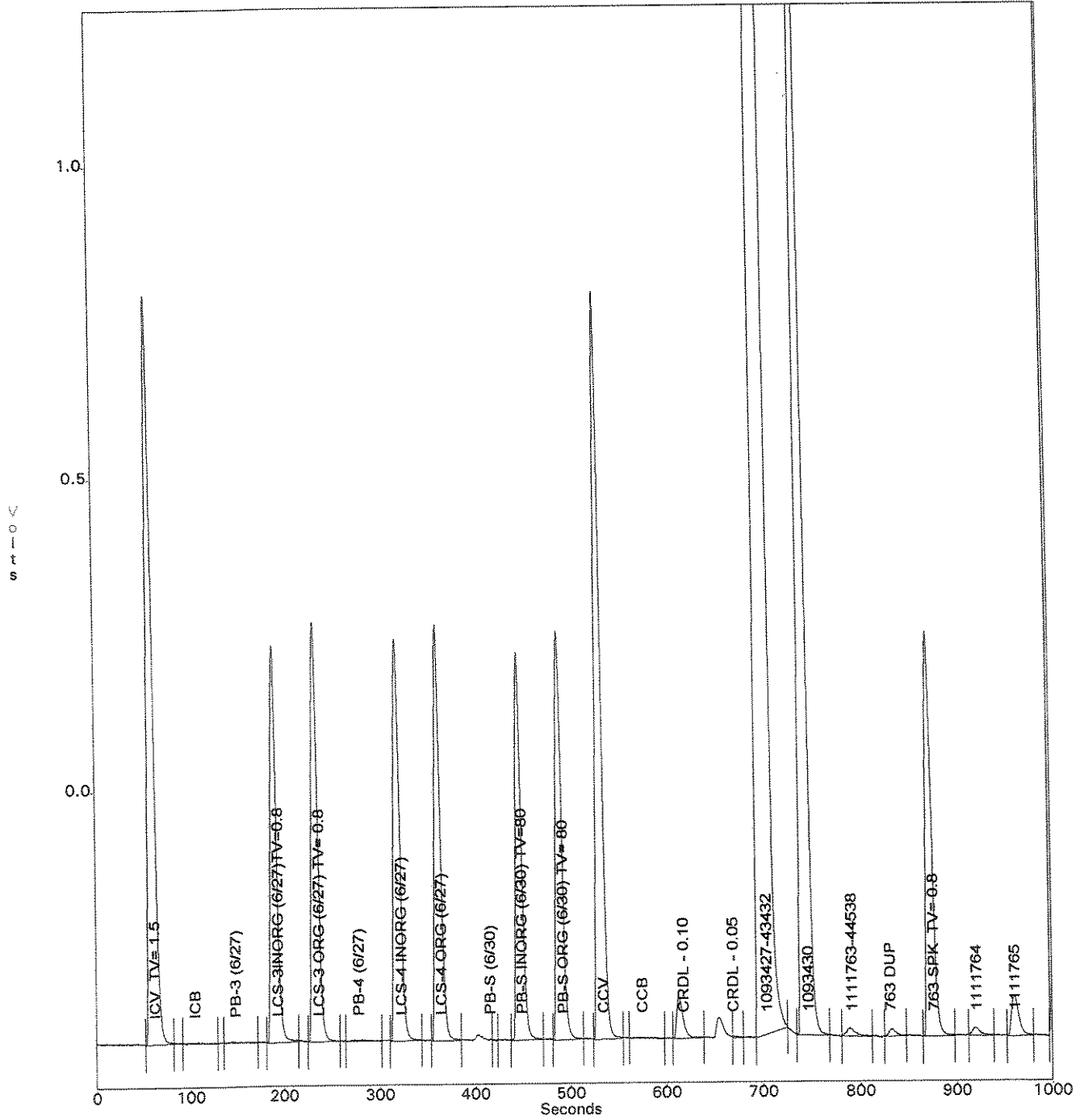
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 2, 2008 9:05:30
C:\OMNION\DATA\080702A1.FDT
C:\OMNION\TRAYS\0807020A.TRA

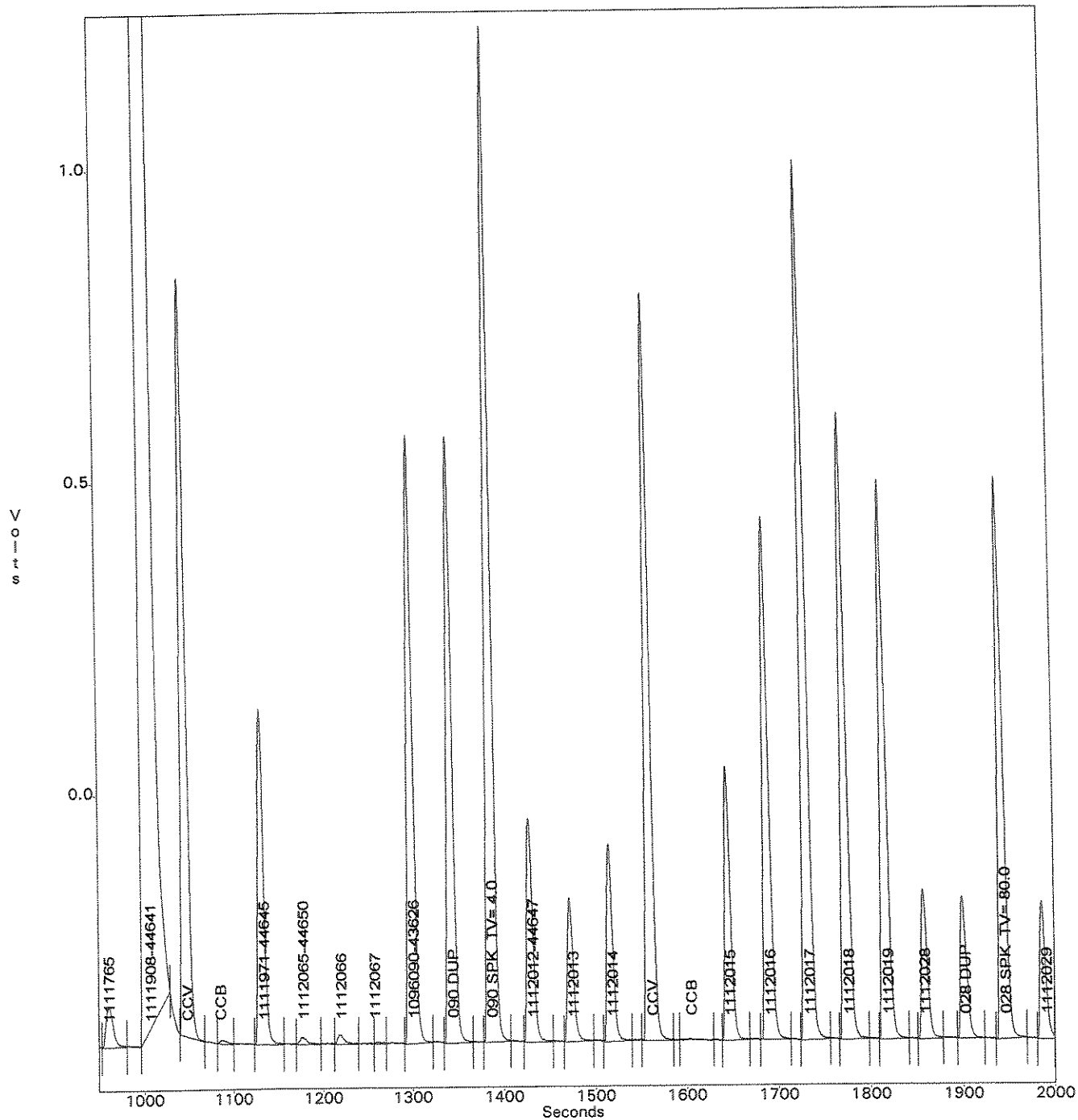
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 2, 2008 9:05:30
C:\OMNION\DATA\080702A1.FDT
C:\OMNION\TRAYS\0807020A.TRA

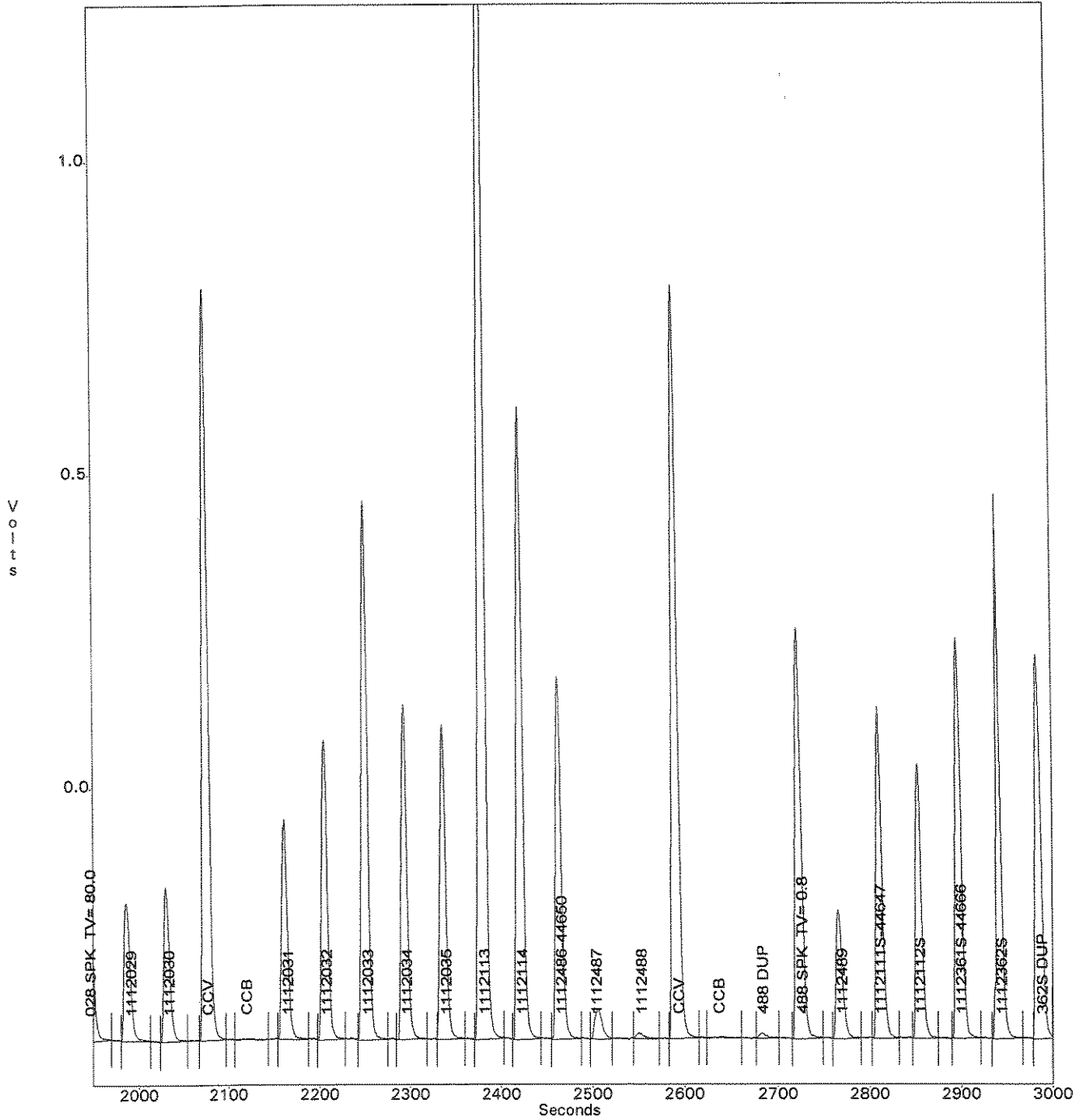
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

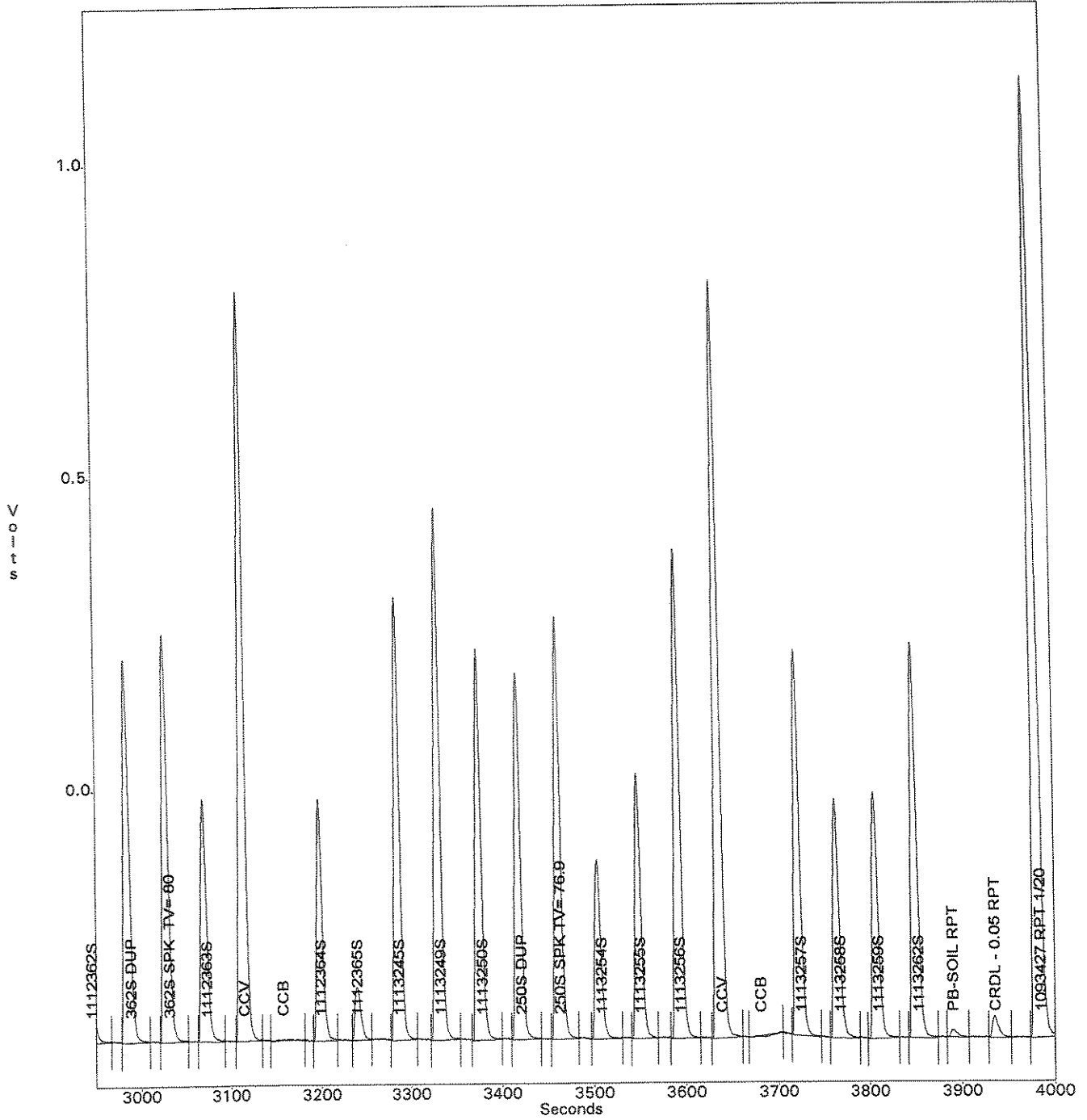
NMEAD
Jul 2, 2008 9:05:30
C:\OMNION\DATA\080702A1.FDT
C:\OMNION\TRAYS\0807020A.TRA

Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR: NMEAD
ACQ. TIME: Jul 2, 2008 9:05:30
DATA FILENAME: C:\OMNION\DATA\080702A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807020A.TRA

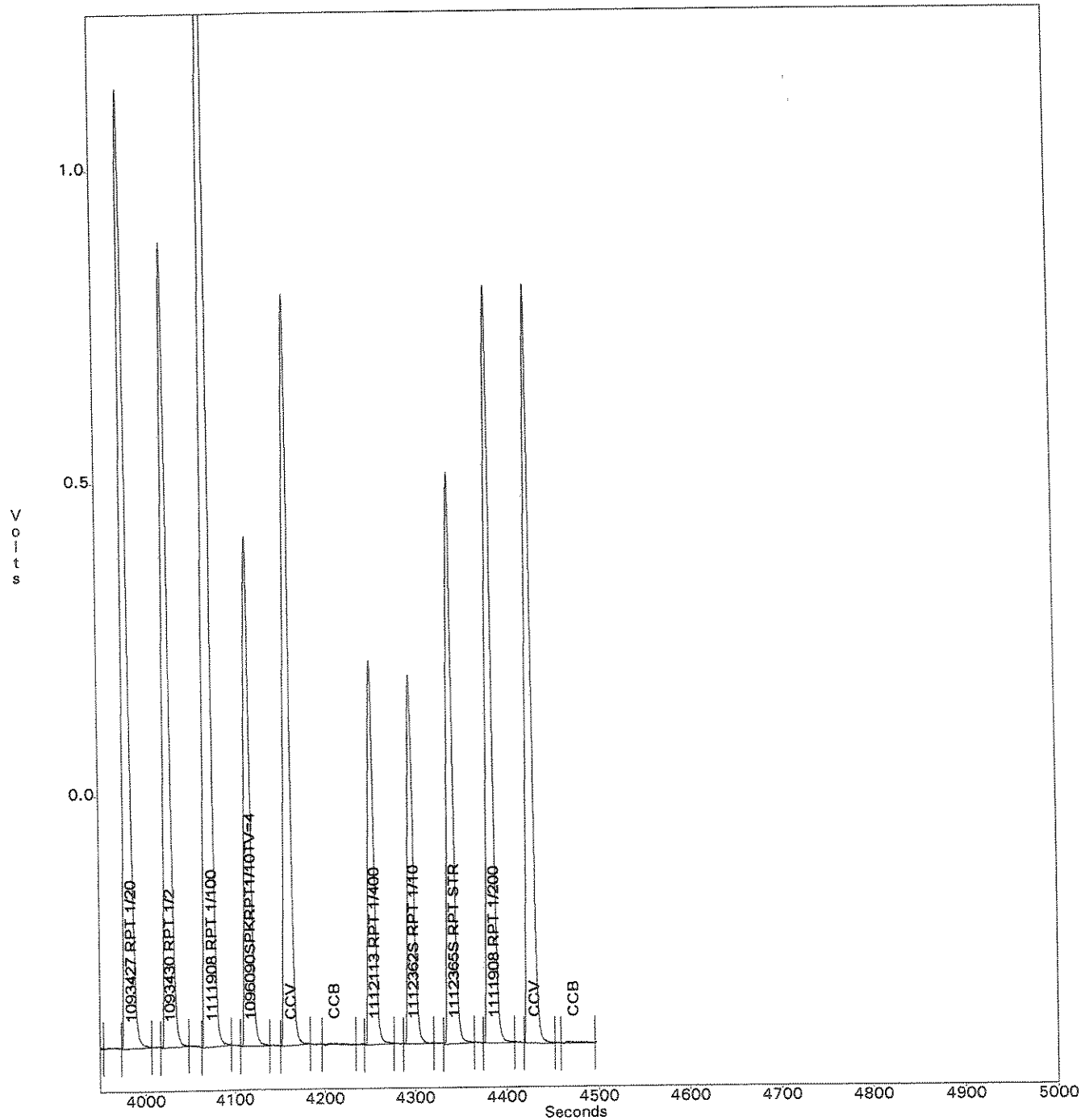
Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR:
ACQ. TIME:
DATA FILENAME:
TRAY FILENAME:

NMEAD
Jul 2, 2008 9:05:30
C:\OMNION\DATA\080702A1.FDT
C:\OMNION\TRAYS\0807020A.TRA

Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR: NMEAD
 ACQ. TIME: Jul 2, 2008 8:44:56
 DATA FILENAME: C:\OMNION\DATA\0807020A.FDT
 METHOD FILENAME: C:\OMNION\METHODS\TPO4B.MET
 TRAY FILENAME: C:\OMNION\TRAYS\0807020A.TRA

TRAY DESCRIPTION:
 Created: Jul 1, 2008 14:36:21
 Modified: Jul 1, 2008 14:36:21
 QC 8000 365.1 TPO4 - RUN LOG - TPO4B 0807020A
 DATA DESCRIPTION:
 Created: Jul 2, 2008 8:44:56
 Modified: Jul 2, 2008 8:44:56

Method - Ch. 1 (QC 8000 365.1 Total Phosphorus)

METHOD DESCRIPTION:
 Created: Feb 25, 2008 14:38:43
 Modified: Jun 25, 2008 10:23:35
 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	11776158	2.00	11776158					0.0	0.0	-0.4
2	5785947	1.00	5785947					0.0	0.0	0.9
3	2823017	0.50	2823017					0.0	0.0	2.2
4	1054943	0.20	1054943					0.0	0.0	5.6
5	520116	0.10	520116					0.0	0.0	1.9
6	263197	0.05	268574	257820				7604.2	2.9	-9.0
7	122307	0.02	8987	122307				0.0	0.0	-53.1
8	0	0.00	0	0				0.0	0.0	

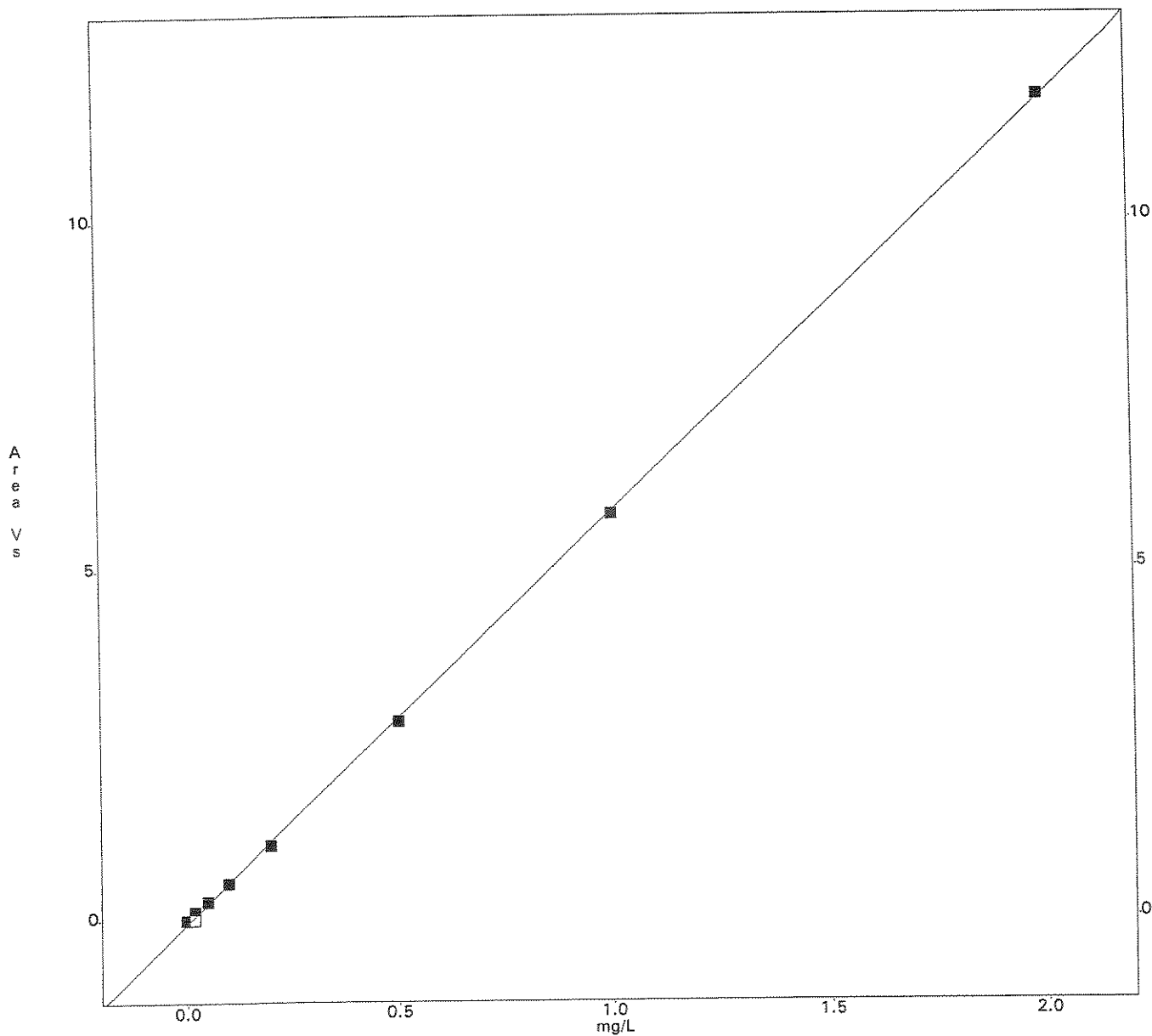
deleted - Bad integration
NM 7/2/08

Underlined Italic numbers and hollow graph points reflect the unused Replicate Points

1st Order Poly
 Conc = $1.697e-007$ Area + $9.871e-003$
 r = 0.9999

Pipette ID: E-1

Scaling: None - Weighting: None



Printed: Wednesday, July 02, 2008 - 08:53 AM

Columbia Analytical Services
1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: N. Mead

Date: 7/2/08

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:

2/26/08 RP (A) 0.0250N $\text{Na}_2\text{S}_2\text{O}_3$ - Sulfides

Dilute 50mls 0.1N $\text{Na}_2\text{S}_2\text{O}_3$ (WC85067D) to 200mls volumetrically w/ DI. Store for 2 weeks at 4°C. Exp. 3/11/08

2/25/08 TC ^{TC 2126108} (B) TP04 Reg. Level Calibration for 008000

TC (B) make a 10^4 ppm Standard Working Stock by preparing two serial dilutions of the 1000 ppm TP04 Standard Stock (WC120001T)

(C) Cal. Standards - fresh per run

Std	Std Conc. (mg/L)	mls of 10ppm working Stock (WC120001T)	mls of Carrier/Diluent
A	2.00	2.0	8.0
B	1.00	1.0	9.0
C	0.50 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
Add ^{TC 2125108}

(D) make a 10ppm Reference Working Stock by preparing two serial dilutions of the 1000ppm TP04 Reference Stock (WC85071F)

(E) TP04 ICV/CCV TV=1.50

Add 1.50 mls of the 10ppm Reference Working Stock (WC850114D) to 8.5 mls Carrier/Diluent. Fresh per run.

(F) TP04 - RL LCS/MS TV=0.80 ppm
^{Inorganic/Organic}

To 25 mls sample of LIPDI add 0.20 mls of 10ppm Standard Stock (prepared by making a 1/10 dilution of the 1000ppm Standard Stock (WC120001T))
organic LCS is prepared from 100ppm Organic Standard (WC150514)

ted 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.

1/2 add
cell.

10/9/07
TC

(C) TKN Digest Reagent
To a 2 liter vol. flask add:
- 268.0 g K₂SO₄ (WC85037A)
- 14.6 g Copper II Sulfate (WC85040A)
to ~400 ml UPDI
Slowly add 268 ml conc. instra analyzed H₂SO₄
(WC85024E)
Stir until dissolved. Allow to cool. Exp. 1 month 11/9/06

10/9/07
NM

(D) Buffer - NH₃
- same as WC85021D. Exp 1 year, 10/9/08.

2g
B (WC85050E).

10/10/07
GN

(E) NO₂ Color Reagent - Kowalab
- same as WC85032A. Exp 1 month 11/10/07

1g, Cat# ZX0048-1,
15-6. Stru & R.T.

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.

1g, Cat# 2533-35,
WC85017G.

10/10/07

(G) Hypochlorite - TKN
- same as ~~WC85047B~~ WC85049G. Prepare fresh each run.

2g.
CAS# 168-95-2.

10/10/07
TC

(H) 100ppm Organic Phosphorous Standard - TKN
In a 1 liter vol. flask dissolve 0.7885g
β-Glycerophosphoric acid, Disodium Salt, 5-Hydrate
(WC76143D) in DI. Bring to vol. w/ DI. Store in
amber glass @ 4°C. Exp. 1 yr. 10/10/08.

D brought
- fresh

id
2/07

ur (HYPO)

Br)

ly dried @ 104°C for 1 hr
; 11/9/08

the add:

adjust pH
exp 1 yr. 11/9/08.

chemically
the @ 4°C.

Antitoxin Solutions

(A) 0.100N KIO₃

In a 2L vol. flask, dissolve 42.8g KIO₃ (WC85067E) 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 (WC85046H) and bring to volume with DI. Store at RT. Exp 11/9/08

(C) Sulfanilamide Color Reagent - TKN

To a 1 liter amber bottle add:

- 76g DI
- 15g H₂O₂ (WC76294E)
- 0.9g ^{N50} ~~1000~~ (WC74008H)
- 36g Sulfanilamide (WC74161G)

Stir until dissolved. Store at RT. exp. 1 month, 11/9/08.

(D) TKN Digest Reagent

In a 2 liter vol. flask dissolve:
- 268g K₂S₂O₈ (WC85066D)
- 14.6g CuSO₄ (WC85040A)
- 268 ml conc. orthotrace H₂SO₄ (WC85-067G)
in UPPI. Stir until dissolved. Cool and bring to vol. w/ UPPI. Exp. 1 month, 11/12/07.

(E) TSS Reference

0.2230 g Kaolin (WC69285 G) brought to 1000g w/ DI. Stored at 4°C in a plastic bottle.

N = 223 mg/L exp. 11/12/08

(F) TPO₄ 1000 ppm Reference Stock

4.394g K₂H₂PO₄ (WC75054G) previously dried for 2 hours @ 104°C. Dissolve in ~800 ml DI in a 1 liter vol. flask, bring to vol. w/ DI. Store in amber glass @ 4°C. for 1 yr. Exp 11/12/08.

(G) Iodate-Iodate Titrant for Sulfites

0.4458g KIO₃ (WC69234F) + 4.25g KI (WC76272E) + 0.310g NaHCO₃ (WC76115E) diluted to 1 L in vol. flask with DI Store at 4°C. exp 11/12/08

STANDARD STOCK PREP

(Fluoride and Bromide are purchased 1000ppm standards)

By: CR / CR / CR
 Date: 5/9/05 / 7/19/06 / 10/16/08

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	2/21/07	WC72001C
D	WC76105F	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	WC69234E	BB	2/23/05	2/23/06	WC72001G
H	WC69234I	TC	2/22/06	2/22/07	WC72001H
I	WC69234I	FN	2/5/07	2/1/08	WC72001I
J	WC85099D	NIM	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.

ID Letter	KNO3 Source	Chloroform Source ID	Analyst	Date Prepared	Date Expires	Final NO3 1000ppm Stock ID
3* K	WC65173D	WC69078E	BB	8/10/04	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	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 Liter 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	BB	2/23/05	2/23/06	WC72001Q
R	WC69196E	TC	2/21/06	2/21/07	WC72001R
S	WC69245E	TC	2/23/07	4/23/07	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	WC65108D	BB	2/24/04	2/24/05	WC72001U
V	WC65108D	BB	2/23/05	2/23/06	WC72001V
W	WC76018A	TC	2/22/06	2/22/07	WC72001W
X	WC76018A	TC	2/5/07	2/5/08	WC72001X
Y	WC76153E	NIM	1/31/08	1/31/09	WC72001Y

5* previously WC69085A

Run #: 162667

Analyte: TSS SM2540D TOTAL SUSPENDED SOLIDS

Printed: 06/24/08 13:19

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLK5		1111748	WATER	-0.200	1.0	1.00			06/19/2008		
SPKB		1111749	WATER	215	1.0	1.00	99.5		06/19/2008		
ESMP	R2843633	1096162	WATER	148	1.0	1.00			06/19/2008		1
LDUP		1111750	WATER	158	1.0	1.00		6.47	06/19/2008		
ESMP	R2843633	1096164	WATER	70.0	1.0	1.00			06/19/2008		1
LDUP		1111751	WATER	70.9	1.0	1.00		1.26	06/19/2008		
ESMP	R2843633	1096169	WATER	2.60	1.0	1.00			06/19/2008		1
ESMP	R2844260	1106098	WATER	2.10	1.0	1.00			06/19/2008	RUN	2
ESMP	R2844266	1106126	WATER	5.20	1.0	1.00			06/19/2008	RUN	2
ESMP	R2844266	1106141	WATER	13.4	1.0	1.00			06/19/2008	RUN	2
ESMP	R2844266	1106152	WATER	4.10	1.0	1.00			06/19/2008	RUN	2
ESMP	R2844266	1106162	WATER	16.8	1.0	1.00			06/19/2008	RUN	2
ESMP	R2844526	1109612	WATER	3.20	1.0	1.00			06/19/2008	RUN	ASPB
ESMP	R2844538	1109708	WATER	0.300	1.0	1.00			06/19/2008		ASPB
ESMP	R2844261	1106103	WATER	2.00	1.0	1.00			06/19/2008	RUN	2

Records printed: 15

DATE PRINTED: 06/24/08

SOLIDS / GREASE & OIL REPORT

RUN #: 162667 ANALYSIS DATE: 06/19/08 ASSIGNED TO :

TEMPLATE: SM2540D TOTAL SUSPENDED SOLIDS (TSS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL						FLASK/	LS	LS
			TYPE	GROSS (g)	TARE (g)	DIFF (g)	VOL (ml)	(mg/L)	DISH ID	JOB#	LOC#
1	1111748	R28 0	MBLK	(1.3533-	1.3535)=	-0.0002	*1E6 /1000	=-0.200	18		
2	1111749	R28 0	LCS	(1.3765-	1.3550)=	0.0215	*1E6 /100	= 215	19		
3	1096162	R2843633	ESMP	(1.3714-	1.3569)=	0.0145	*1E6 /98	= 148	29		
4	1111750	R28 0	DUPE	(1.3853-	1.3703)=	0.0150	*1E6 /95	= 158	30		
5	1096164	R2843633	ESMP	(1.3486-	1.3430)=	0.0056	*1E6 /80	=70.0	31		
6	1111751	R28 0	DUPE	(1.3680-	1.3624)=	0.0056	*1E6 /79	=70.9	32		
7	1096169	R2843633	ESMP	(1.3610-	1.3584)=	0.0026	*1E6 /1000	=2.60	33		
8	1106098	R2844260	ESMP	(1.3658-	1.3637)=	0.0021	*1E6 /1000	=2.10	34		
9	1106126	R2844266	ESMP	(1.3554-	1.3502)=	0.0052	*1E6 /1000	=5.20	35		
10	1106141	R2844266	ESMP	(1.3713-	1.3616)=	0.0097	*1E6 /725	=13.4	36		
11	1106152	R2844266	ESMP	(1.3585-	1.3544)=	0.0041	*1E6 /1000	=4.10	37		
12	1106162	R2844266	ESMP	(1.3772-	1.3658)=	0.0114	*1E6 /680	=16.8	38		
13	1109612	R2844526	ESMP	(1.3592-	1.3560)=	0.0032	*1E6 /1000	=3.20	39		
14	1109708	R2844538	ESMP	(1.3700-	1.3697)=	0.0003	*1E6 /1000	=0.300	40		
15	1106103	R2844261	ESMP	(1.3767-	1.3747)=	0.0020	*1E6 /1000	=2.00	41		

Analyte: Total Suspended Solids (TSS)

Analyst: BB/EW

Date: 6/19/08

Method: 160.2 / SM20 2540D

Pipet: NA

Time: 13:30

Analytes: Volatile/Fixed Solids

*Lower tare weight used unless marked:

Method : EPA-600 160.4/SM 2540E TSS x

VSS x

FSS

LCS lot# WC85161C Filter ID: WC85154B

Balance ID: AE240 Oven ID: 2

TS TV: 216 TVS TV:

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
1	MB	C15	1000		C)	Dry wgt (A): 16.0693	0.30	0.20	
					B) 16.0691	Dry wgt (A): 16.0693			
					A-B= 0.0002	Dry wgt (A):			
					D-B=	550 wgt (D): 16.0690			
					A-D= 0.0003				
2	LCS	1	100		C)	Dry wgt (A): 1.382	214.00		
					B) 1.3606	Dry wgt (A): 1.3820			
					A-B= 0.0214	Dry wgt (A):			
					D-B=	550 wgt (D):			
					A-D= 1.3820				
3	44500 R-1109222	2	1000		C)	Dry wgt (A): 1.3533	0.90		
					B) 1.3524	Dry wgt (A): 1.3534			
					A-B= 0.0009	Dry wgt (A):			
					D-B=	550 wgt (D):			
					A-D= 1.3533				
4	44504 R-1109376	3	1000		C)	Dry wgt (A): 1.3589	4.40		
					B) 1.3545	Dry wgt (A): 1.3589			
					A-B= 0.0044	Dry wgt (A):			
					D-B=	550 wgt (D):			
					A-D= 1.3589				
5	R-1109376 DUP	4	1000		C)	Dry wgt (A): 1.3633	5.00		
					B) 1.3583	Dry wgt (A): 1.3633			
					A-B= 0.0050	Dry wgt (A):			
					D-B=	550 wgt (D):			
					A-D= 1.3633				
6	R-1109377	5	1000		C)	Dry wgt (A): 1.3597	2.90		
					B) 1.3568	Dry wgt (A): 1.3598			
					A-B= 0.0029	Dry wgt (A):			
					D-B=	550 wgt (D):			
					A-D= 1.3597				
7	R-1109379	6	1000		C)	Dry wgt (A): 1.3674	3.00		
					B) 1.3644	Dry wgt (A): 1.3674			
					A-B= 0.0030	Dry wgt (A):			
					D-B=	550 wgt (D):			
					A-D= 1.3674				
8	R-1109380	7	1000		C)	Dry wgt (A): 1.3647	5.00		
					B) 1.3597	Dry wgt (A): 1.3647			
					A-B= 0.0050	Dry wgt (A):			
					D-B=	550 wgt (D):			
					A-D= 1.3647				

Analyte: Total Suspended Solids (TSS)
 Method: 160.2 / SM20 2540D
 Analytes: Volatile/Fixed Solids
 Method : EPA-600 160.4/SM 2540E

Analyst: BB/EW
 Pipet: NA

Date: 6/19/08
 Time: 13:30

*Lower tare weight used unless marked: _____

TSS x VSS x FSS _____

LCS lot# WC85161C Filter ID: WC85154B
 TS TV: 216 TVS TV: _____

Balance ID: AE240 Oven ID: 2
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)	B)	Dry wgt (A):	Dry wgt (A):			
9	R-1109381	8	1000		C)		Dry wgt (A):	1.3646		4.40	
					B)	1.3602	Dry wgt (A):	1.3646			
					A-B=	0.0044	Dry wgt (A):				
					D-B=		550 wgt (D):				
				A-D=		1.3646					
10	R-1109382	9	1000		C)		Dry wgt (A):	1.3625		6.50	
					B)	1.3560	Dry wgt (A):	1.3626			
					A-B=	0.0065	Dry wgt (A):				
					D-B=		550 wgt (D):				
				A-D=		1.3625					
11	440505	R-1109390	1000		C)		Dry wgt (A):	1.3559		0.50	
					B)	1.3554	Dry wgt (A):	1.3559			
					A-B=	0.0005	Dry wgt (A):				
					D-B=		550 wgt (D):				
				A-D=		1.3559					
12	R-1109391	11	1000		C)		Dry wgt (A):	1.3633		1.30	
					B)	1.3620	Dry wgt (A):	1.3633			
					A-B=	0.0013	Dry wgt (A):				
					D-B=		550 wgt (D):				
				A-D=		1.3633					
13	43622	R-1096058	35	VSS	C)		Dry wgt (A):	19.8787	297.14	320.00	
					B)	19.8674	Dry wgt (A):	19.8786			
					A-B=	0.0112	Dry wgt (A):				
					D-B=		550 wgt (D):	19.8682			
				A-D=		0.0104					
14	R-1096059	C4	1000	VSS	C)		Dry wgt (A):	16.8769	0.50	0.30	
					B)	16.8766	Dry wgt (A):	16.8771			
					A-B=	0.0003	Dry wgt (A):				
					D-B=		550 wgt (D):	16.8764			
				A-D=		0.0005					
15	43630	R-1096118	1000	VSS	C)		Dry wgt (A):	17.9224	5.60	10.70	
					B)	17.9117	Dry wgt (A):	17.9224			
					A-B=	0.0107	Dry wgt (A):				
					D-B=		550 wgt (D):	17.9168			
				A-D=		0.0056					
16	R-1096119	B41	234	VSS	C)		Dry wgt (A):	16.4964	21.37	31.20	
					B)	16.4891	Dry wgt (A):	16.4964			
					A-B=	0.0073	Dry wgt (A):				
					D-B=		550 wgt (D):	16.4914			
				A-D=		0.0050					

Analyte: Total Suspended Solids (TSS)
 Method: 160.2 / SM20 2540D
 Analytes: Volatile/Fixed Solids
 Method : EPA-600 160.4/SM 2540E

Analyst: BB/EW
 Pipet: NA

Date: 6/19/08
 Time: 13:30

*Lower tare weight used unless marked: _____

TSS x VSS x FSS _____

LCS lot# WC85161C Filter ID: WC85154B
 TS TV: 216 TVS TV: _____

Balance ID: AE240 Oven ID: 2
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)	B)	Dry wgt (A):	Dry wgt (A):			
17	R-1096119 DUP	C5	237	VSS	C)		Dry wgt (A):	16.6785	19.83	29.11	
					B)	16.6716	Dry wgt (A):	16.6785			
					A-B=	0.0069	Dry wgt (A):				
					D-B=		550 wgt (D):	16.6738			
						A-D=	0.0047				
18	R-1096120	76	35	VSS	C)		Dry wgt (A):	17.9978	108.57	174.29	
					B)	17.9917	Dry wgt (A):	17.9978			
					A-B=	0.0061	Dry wgt (A):				
					D-B=		550 wgt (D):	17.9940			
						A-D=	0.0038				
19	43633 R-1096165	12	1.3		C)		Dry wgt (A):	1.3636	9384.62		
					B)	1.3514	Dry wgt (A):	1.3636			
					A-B=	0.0122	Dry wgt (A):				
					D-B=		550 wgt (D):				
						A-D=	1.3636				
20	44533 R-1109681	13	305		C)		Dry wgt (A):	1.3784	44.59		
					B)	1.3648	Dry wgt (A):	1.3784			
					A-B=	0.0136	Dry wgt (A):				
					D-B=		550 wgt (D):				
						A-D=	1.3784				
21	R-1109683	14	440		C)		Dry wgt (A):	1.3720	15.68		
					B)	1.3651	Dry wgt (A):	1.3720			
					A-B=	0.0069	Dry wgt (A):				
					D-B=		550 wgt (D):				
						A-D=	1.3720				
22	R-1109688	15	480		C)		Dry wgt (A):	1.3616	14.17		
					B)	1.3548	Dry wgt (A):	1.3616			
					A-B=	0.0068	Dry wgt (A):				
					D-B=		550 wgt (D):				
						A-D=	1.3616				
23	43624 R-1096083	16	1000		C)		Dry wgt (A):	1.3578	1.60		
					B)	1.3562	Dry wgt (A):	1.3579			
					A-B=	0.0016	Dry wgt (A):				
					D-B=		550 wgt (D):				
						A-D=	1.3578				
24	44557 R-1109952	17	630		C)		Dry wgt (A):	1.3685	12.54		
					B)	1.3606	Dry wgt (A):	1.3686			
					A-B=	0.0079	Dry wgt (A):				
					D-B=		550 wgt (D):				
						A-D=	1.3685				

Analyte: Total Suspended Solids (TSS)
 Method: 160.2 / SM20 2540D
 Analytes: Volatile/Fixed Solids
 Method : EPA-600 160.4/SM 2540E

Analyst: BB/EW
 Pipet: NA

Date: 6/19/08
 Time: 13:30

*Lower tare weight used unless marked: _____

LCS lot# WC85161C Filter ID: WC85154B
 TS TV: 216 TVS TV: _____

Balance ID: AE240 Oven ID: 2

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		
25	MB	18	1000		C)	Dry wgt (A):		-0.20			
					B)	1.3535				Dry wgt (A):	1.3533
					A-B=	-0.0002				Dry wgt (A):	
					D-B=					550 wgt (D):	
					A-D=	1.3533					
26	LCS	19	100		C)	Dry wgt (A):		215.00			
					B)	1.3550				Dry wgt (A):	1.3765
					A-B=	0.0215				Dry wgt (A):	
					D-B=					550 wgt (D):	
					A-D=	1.3765					
27	R-1109953	20	470		C)	Dry wgt (A):		25.74			
					B)	1.3589				Dry wgt (A):	1.3710
					A-B=	0.0121				Dry wgt (A):	
					D-B=					550 wgt (D):	
					A-D=	1.3710					
28	R-1109954	21	970	X	C)	Dry wgt (A):		2.89			
					B)	1.3583				Dry wgt (A):	1.3612
					A-B=	0.0028				Dry wgt (A):	
					D-B=					550 wgt (D):	
					A-D=	1.3611					
29	R-1109955	22	960	X	C)	Dry wgt (A):		13.12			
					B)	1.3459				Dry wgt (A):	1.3585
					A-B=	0.0126				Dry wgt (A):	
					D-B=					550 wgt (D):	
					A-D=	1.3585					
30	R-1110018	23	835		C)	Dry wgt (A):		2.51			
					B)	1.3617				Dry wgt (A):	1.3639
					A-B=	0.0021				Dry wgt (A):	
					D-B=					550 wgt (D):	
					A-D=	1.3638					
31	R-1110019	24	450		C)	Dry wgt (A):		3.78			
					B)	1.3685				Dry wgt (A):	1.3703
					A-B=	0.0017				Dry wgt (A):	
					D-B=					550 wgt (D):	
					A-D=	1.3702					
32	R-1110020	25	990	X	C)	Dry wgt (A):		2.32			
					B)	1.3487				Dry wgt (A):	1.3510
					A-B=	0.0023				Dry wgt (A):	
					D-B=					550 wgt (D):	
					A-D=	1.3510					

Analyte: Total Suspended Solids (TSS)
 Method: 160.2 / SM20 2540D
 Analytes: Volatile/Fixed Solids
 Method: EPA-600 160.4/SM 2540E

Analyst: BB/EW
 Pipet: NA

Date: 6/19/08
 Time: 13:30

*Lower tare weight used unless marked: _____

LCS lot# WC85161C Filter ID: WC85154B
 TS TV: 216 TVS TV: _____

Balance ID: AE240 Oven ID: 2
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	
33	R-1110021	26	855		C)	Dry wgt (A): 1.3610		3.27		
					B) 1.3582	Dry wgt (A): 1.3610				
					A-B= 0.0028	Dry wgt (A):				
					D-B=	550 wgt (D):				
		A-D=	1.3610							
34	R-1110022	27	1000		C)	Dry wgt (A): 1.3679		1.80		
					B) 1.3661	Dry wgt (A): 1.3680				
					A-B= 0.0018	Dry wgt (A):				
					D-B=	550 wgt (D):				
		A-D=	1.3679							
35	44570	R-1110167	28	530	X	C)	Dry wgt (A): 1.3669		0.75	
						B) 1.3665	Dry wgt (A): 1.3669			
						A-B= 0.0004	Dry wgt (A):			
						D-B=	550 wgt (D):			
		A-D=	1.3669							
36	43633	R-1096162	29	98		C)	Dry wgt (A): 1.3714		147.96	
						B) 1.3569	Dry wgt (A): 1.3714			
						A-B= 0.0145	Dry wgt (A):			
						D-B=	550 wgt (D):			
		A-D=	1.3714							
37	R-1096162 DUP	30	95		C)	Dry wgt (A): 1.3853		157.89		
					B) 1.3703	Dry wgt (A): 1.3853				
					A-B= 0.0150	Dry wgt (A):				
					D-B=	550 wgt (D):				
		A-D=	1.3853							
38	R-1096464	31	80		C)	Dry wgt (A): 1.3487		70.00		
					B) 1.3430	Dry wgt (A): 1.3486				
					A-B= 0.0056	Dry wgt (A):				
					D-B=	550 wgt (D):				
		A-D=	1.3486							
39	R-1096164 DUP	32	79		C)	Dry wgt (A): 1.3680		70.89		
					B) 1.3624	Dry wgt (A): 1.3680				
					A-B= 0.0056	Dry wgt (A):				
					D-B=	550 wgt (D):				
		A-D=	1.3680							
40	R-1096169	33	1000		C)	Dry wgt (A): 1.3610		2.60		
					B) 1.3584	Dry wgt (A): 1.3610				
					A-B= 0.0026	Dry wgt (A):				
					D-B=	550 wgt (D):				
		A-D=	1.3610							

COLUMBIA ANALYTICAL SERVICES, INC

Tare Weights:

Instrument: X Mettler AE240 Analytical Balance
 Mettler AG204 Analytical Balance

Analyst: BB/EW
 Date: 6/19/08

Drying Tins: X Dish 104°C: Weight Actual
 Crucible 550°C: X Dish 550°C: s Weights (s): 0.9999 g 1 g
 Dish 180°C: G/O Dishes: 20.0001 g 20 g

ID Number	Weight	
C15	16.0692	16.0691
1	1.3607	1.3606
2	1.3524	1.3524
3	1.3545	1.3545
4	1.3583	1.3583
5	1.3568	1.3569
6	1.3644	1.3645
7	1.3597	1.3598
8	1.3602	1.3602
9	1.3560	1.3560
10	1.3554	1.3554
11	1.3620	1.3620
58	19.8675	19.8674
C4	16.8767	16.8766
67	17.9117	17.9117
B41	16.4892	16.4891
C5	16.6716	16.6716
76	17.9918	17.9917
12	1.3514	1.3514
13	1.3648	1.3649
14	1.3651	1.3651
15	1.3549	1.3548
16	1.3562	1.3562
17	1.3606	1.3606
18	1.3535	1.3535

ID Number	Weight	
19	1.3551	1.3550
20	1.3590	1.3589
21	1.3583	1.3583
22	1.3459	1.3459
23	1.3618	1.3617
24	1.3686	1.3685
25	1.3488	1.3487
26	1.3582	1.3582
27	1.3661	1.3661
28	1.3665	1.3665
29	1.3569	1.3569
30	1.3703	1.3703
31	1.3430	1.3430
32	1.3624	1.3624
33	1.3585	1.3584
34	1.3638	1.3637
35	1.3502	1.3502
36	1.3616	1.3616
37	1.3544	1.3544
38	1.3658	1.3658
39	1.3561	1.3560
40	1.3698	1.3697
41	1.3748	1.3747
42	1.3567	1.3566
43	1.3529	1.3528

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: BB/EW

Date: 6/19/08

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:	WC85161C	6/12/08				216
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.

LAS

SI.
P. U. source
9/2008

LAS

SI
source 10/6/08

0.25 g ^{with} ~~with~~ Eriochrome
p. Cap and shake
0

I and
re in
12/10/08.

to 200 mL
8

g ~~Al₂S₂O₃~~
e w/ 100 mL
c for 2 weeks.

non-basic monohydrate
exp 6/10/09

RP
w/08

(A) TPO₄ Ascorbic Acid

To a tared 1 liter plastic bottle add
- 30g Ascorbic Acid (WC851256)
- 487.5 g UPDI
Degas w/ Helium for 5 mins then add
0.50g Dodecyl Sodium sulfate (WC76287E)
Store at 4°C, exp. 1 wk 6/17/08

6/11/08

(B) Ascorbic Acid - Kowalab

- same as WC85141F, Exp 2 weeks 6/25/08

6/12/08

(C) TSS Reference

0.2163g K₂Cr₂O₇ (WC69285G) brought to 100g w/ΔI.
Store in plastic @ 4°C. Expire 6/12/09. TR=216mg/L

6/12/08
Nm

(D) Std. KIO₃ Titrant - Chlorine Demand

- same as WC85006D. Prepare fresh each run, -

(E) 0.00564N Sodium Thiosulfate - Chlorine Demand

- same as WC85148D. Exp. 2 weeks, ~~6/26/08~~ ^{nm 6/12/08} 6/26/08.

(F) Stock Chlorine Solution - Chlorine Demand

- same as WC85101H. Prepare fresh each run and standardize with use.

6/12/08 (G) Color Reagent - TKN

Nm - same as WC85155E. Exp. 7/12/08.

(H) 0.8 M NaOH - TKN

To a tared 1-L vol. flask add 32.0g NaOH pellets (WC85153E) and ~ 800 mLs UPDI. stir until dissolved. Bring to volume w/UPDI. Store @ RT in plastic. Exp 1 month, 7/12/08.

(I) Sodium Phenolate - NH₃

To a tared 1-L amber bottle add:

- 888 g UPDI
- 94.2 g liquefied phenol (WC85146G)
- 32.0 g NaOH pellets (WC85153E)

Stir until dissolved. Prepare and dissolve in hood. Store @ 4°C. Exp. 1 year, 6/12/09.

Run #: 162784

Analyte: TSS SM2540D TOTAL SUSPENDED SOLIDS

Printed: 06/26/08 08:28

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLKS		1112312	WATER	-0.200	1.0	1.00			06/23/2008		
SPKB		1112313	WATER	211	1.0	1.00	97.7		06/23/2008		
ESMP	R2844267	1106164	WATER	6.00	1.0	1.00			06/23/2008	RUN	2
ESMP	R2844267	1106169	WATER	10.8	1.0	1.00			06/23/2008	RUN	2
ESMP	R2844267	1106173	WATER	2.60	1.0	1.00			06/23/2008	RUN	2
ESMP	R2844267	1106177	WATER	7.90	1.0	1.00			06/23/2008	RUN	2
ESMP	R2844538	1110532	WATER	1.40	1.0	1.00			06/23/2008		ASPB
ESMP	R2844262	1106108	WATER	3.20	1.0	1.00			06/23/2008	RUN	2
ESMP	R2844262	1110920	WATER	8.30	1.0	1.00			06/23/2008	RUN	2
ESMP	R2844262	1110922	WATER	24.6	1.0	1.00			06/23/2008	RUN	2
ESMP	R2844262	1110924	WATER	9.20	1.0	1.00			06/23/2008	RUN	2
ESMP	R2844538	1110981	WATER	55.9	1.0	1.00			06/23/2008	RUN	ASPB
LDUP		1112314	WATER	57.3	1.0	1.00		2.46	06/23/2008		

Records printed: 13

SOLIDS / GREASE & OIL REPORT

RUN #: 162784 ANALYSIS DATE: 06/23/08 ASSIGNED TO :

TEMPLATE: SM2540D TOTAL SUSPENDED SOLIDS (TSS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL				VOL (ml)	(mg/L)	FLASK/	LS	LS
			TYPE	GROSS (g)	TARE (g)	DIFF (g)			DISH ID	JOB#	LOC#
1	1112312	R28 0	MBLK	(1.3563-	1.3565)=	-0.0002	*1E6 /1000	=-0.200	1		
2	1112313	R28 0	LCS	(1.3764-	1.3553)=	0.0211	*1E6 /100	= 211	2		
3	1106164	R2844267	ESMP	(1.3616-	1.3556)=	0.0060	*1E6 /1000	=6.00	21		
4	1106169	R2844267	ESMP	(1.3615-	1.3529)=	0.0086	*1E6 /800	=10.8	22		
5	1106173	R2844267	ESMP	(1.3731-	1.3705)=	0.0026	*1E6 /1000	=2.60	23		
6	1106177	R2844267	ESMP	(1.3765-	1.3686)=	0.0079	*1E6 /1000	=7.90	24		
7	1110532	R2844538	ESMP	(1.3640-	1.3626)=	0.0014	*1E6 /1000	=1.40	25		
8	1106108	R2844262	ESMP	(1.3693-	1.3661)=	0.0032	*1E6 /1000	=3.20	26		
9	1110920	R2844262	ESMP	(1.3723-	1.3640)=	0.0083	*1E6 /1000	=8.30	29		
10	1110922	R2844262	ESMP	(1.3829-	1.3711)=	0.0118	*1E6 /480	=24.6	30		
11	1110924	R2844262	ESMP	(1.3733-	1.3641)=	0.0092	*1E6 /1000	=9.20	31		
12	1110981	R2844538	ESMP	(1.3729-	1.3625)=	0.0104	*1E6 /186	=55.9	32		
13	1112314	R28 0	DUPE	(1.3748-	1.3638)=	0.0110	*1E6 /192	=57.3	33		

Analyte: Total Suspended Solids (TSS)

Analyst: EW

Date: 6/23/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 13:45

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: WC85161C

TV: 216 Balance ID: AE240

Filter Lot: WC85154B

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	1	1000		Gross (A) 1:	1.3563	Gross (A) 3:	-0.20
					Gross (A) 2:	1.3563		
					B)	1.3565	A-B=	
2	LCS	2	100		Gross (A) 1:	1.3764	Gross (A) 3:	211.00
					Gross (A) 2:	1.3765		
					B)	1.3553	A-B=	
3	44557 R-1110322	3	615		Gross (A) 1:	1.3655	Gross (A) 3:	16.75
					Gross (A) 2:	1.3656		
					B)	1.3552	A-B=	
4	R-1110323	4	250		Gross (A) 1:	1.3758	Gross (A) 3:	59.20
					Gross (A) 2:	1.3757		
					B)	1.3609	A-B=	
5	R-1110324	5	985	X	Gross (A) 1:	1.3734	Gross (A) 3:	1.42
					Gross (A) 2:	1.3735		
					B)	1.3720	A-B=	
6	R-1110325	6	1000		Gross (A) 1:	1.3696	Gross (A) 3:	4.70
					Gross (A) 2:	1.3697		
					B)	1.3649	A-B=	
7	R-1110325 DUP	7	960	X	Gross (A) 1:	1.3734	Gross (A) 3:	6.25
					Gross (A) 2:	1.3735		
					B)	1.3674	A-B=	
8	43439 R-1093528	9	15.6		Gross (A) 1:	1.3715	Gross (A) 3:	211.54
					Gross (A) 2:	1.3715		
					B)	1.3682	A-B=	
9	R-1093528 DUP	10	16.8		Gross (A) 1:	1.3710	Gross (A) 3:	214.29
					Gross (A) 2:	1.3709		
					B)	1.3673	A-B=	
10	R-1093529	11	202		Gross (A) 1:	1.3516	Gross (A) 3:	22.77
					Gross (A) 2:	1.3516		
					B)	1.3470	A-B=	
11	R-1093529 DUP	12	191		Gross (A) 1:	1.3665	Gross (A) 3:	19.37
					Gross (A) 2:	1.3664		
					B)	1.3627	A-B=	
12	R-1093531	13	1000		Gross (A) 1:	1.3646	Gross (A) 3:	1.30
					Gross (A) 2:	1.3646		
					B)	1.3633	A-B=	
13	44557 R-1110504	14	980	X	Gross (A) 1:	1.3586	Gross (A) 3:	0.92
					Gross (A) 2:	1.3585		
					B)	1.3576	A-B=	

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: EW

Date: 6/23/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 13:45

Analyte: Total Dissolved Solids (TDS)

TS _____ TDS _____ TSS X

Method: 160.1 / SM20 2540C

Analyte: Total Solids (TS)

LCS Lot: WC85161C

TV: 216 Balance ID: AE240

Method 160.3 / SM20 2540B

Filter Lot: WC85154B

Oven ID: 2

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
14	R-1110505	15	1000	X	Gross (A) 1:	1.3637	Gross (A) 3:	-0.20
					Gross (A) 2:	1.3637		
					B)	1.3639	A-B=	
15	R-1110506	16	1000	X	Gross (A) 1:	1.3576	Gross (A) 3:	1.10
					Gross (A) 2:	1.3576		
					B)	1.3565	A-B=	
16	R-1110507	17	1000		Gross (A) 1:	1.3670	Gross (A) 3:	1.40
					Gross (A) 2:	1.3669		
					B)	1.3655	A-B=	
17	44252 R-1110578	18	1000		Gross (A) 1:	1.3712	Gross (A) 3:	4.50
					Gross (A) 2:	1.3712		
					B)	1.3667	A-B=	
18	R-1110579	19	1000		Gross (A) 1:	1.3713	Gross (A) 3:	5.20
					Gross (A) 2:	1.3713		
					B)	1.3661	A-B=	
19	R-1110580	20	700		Gross (A) 1:	1.3759	Gross (A) 3:	11.00
					Gross (A) 2:	1.3758		
					B)	1.3681	A-B=	
20	44267 R-1106164	21	1000		Gross (A) 1:	1.3616	Gross (A) 3:	6.00
					Gross (A) 2:	1.3616		
					B)	1.3556	A-B=	
21	R-1106169	22	800		Gross (A) 1:	1.3615	Gross (A) 3:	10.75
					Gross (A) 2:	1.3615		
					B)	1.3529	A-B=	
22	R-1106173	23	1000		Gross (A) 1:	1.3731	Gross (A) 3:	2.60
					Gross (A) 2:	1.3731		
					B)	1.3705	A-B=	
23	R-1106177	24	1000		Gross (A) 1:	1.3765	Gross (A) 3:	7.90
					Gross (A) 2:	1.3765		
					B)	1.3686	A-B=	
24	44538 R-1110532	25	1000		Gross (A) 1:	1.3640	Gross (A) 3:	1.40
					Gross (A) 2:	1.3640		
					B)	1.3626	A-B=	
25	44262 R-1106108	26	1000		Gross (A) 1:	1.3693	Gross (A) 3:	3.20
					Gross (A) 2:	1.3693		
					B)	1.3661	A-B=	
26	MB	27	1000		Gross (A) 1:	1.3569	Gross (A) 3:	-0.20
					Gross (A) 2:	1.3569		
					B)	1.3571	A-B=	

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: EW

Pipet: N/A

Date: 6/23/08

Time: 13:45

TS _____ TDS _____ TSS X

LCS Lot: WC85161C

TV: 216 Balance ID: AE240

Filter Lot: WC85154B 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	LCS	28	100		Gross (A) 1:	1.3830	Gross (A) 3:	214.00
					Gross (A) 2:	1.3831		
					B)	1.3616	A-B=	
28	R-1110920	29	1000		Gross (A) 1:	1.3723	Gross (A) 3:	8.30
					Gross (A) 2:	1.3723		
					B)	1.3640	A-B=	
29	R-1110922	30	480		Gross (A) 1:	1.3829	Gross (A) 3:	24.58
					Gross (A) 2:	1.3829		
					B)	1.3711	A-B=	
30	R-1110924	31	1000		Gross (A) 1:	1.3733	Gross (A) 3:	9.20
					Gross (A) 2:	1.3734		
					B)	1.3641	A-B=	
31	44538 R-1110981	32	186		Gross (A) 1:	1.3729	Gross (A) 3:	55.91
					Gross (A) 2:	1.3729		
					B)	1.3625	A-B=	
32	R-1110981 DUP	33	192		Gross (A) 1:	1.3748	Gross (A) 3:	57.29
					Gross (A) 2:	1.3748		
					B)	1.3638	A-B=	
33	44609 R-1111026	34	445	X	Gross (A) 1:	1.3640	Gross (A) 3:	12.13
					Gross (A) 2:	1.3640		
					B)	1.3586	A-B=	
34	R-1111031	35	435	X	Gross (A) 1:	1.3674	Gross (A) 3:	16.55
					Gross (A) 2:	1.3674		
					B)	1.3602	A-B=	
35	R-1111034	36	455	X	Gross (A) 1:	1.3637	Gross (A) 3:	15.16
					Gross (A) 2:	1.3637		
					B)	1.3568	A-B=	
36	R-1111035	37	435	X	Gross (A) 1:	1.3633	Gross (A) 3:	19.08
					Gross (A) 2:	1.3633		
					B)	1.3550	A-B=	
37	R-1111036	38	430	X	Gross (A) 1:	1.3845	Gross (A) 3:	19.30
					Gross (A) 2:	1.3845		
					B)	1.3762	A-B=	
38	R-1111037	39	445	X	Gross (A) 1:	1.3755	Gross (A) 3:	18.88
					Gross (A) 2:	1.3755		
					B)	1.3671	A-B=	
39	R-1111038	40	450	X	Gross (A) 1:	1.3699	Gross (A) 3:	11.56
					Gross (A) 2:	1.3699		
					B)	1.3647	A-B=	

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: EW

Date: 6/23/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 13:45

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: WC85161C

TV: 216 Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 2

*Lower tare weight used unless marked:

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
40	R-1111039	41	420	X	Gross (A) 1:	1.3782	Gross (A) 3:	17.62
					Gross (A) 2:	1.3782		
					B)	1.3708	A-B=	
41	R-1111040	42	435	X	Gross (A) 1:	1.3672	Gross (A) 3:	24.14
					Gross (A) 2:	1.3673		
					B)	1.3567	A-B=	
42	R-1111041	43	415	X	Gross (A) 1:	1.3680	Gross (A) 3:	36.39
					Gross (A) 2:	1.3680		
					B)	1.3529	A-B=	
43	R-1111042	44	440	X	Gross (A) 1:	1.3716	Gross (A) 3:	44.55
					Gross (A) 2:	1.3716		
					B)	1.3520	A-B=	
44	R-1111043	45	455	X	Gross (A) 1:	1.3672	Gross (A) 3:	38.90
					Gross (A) 2:	1.3672		
					B)	1.3495	A-B=	
45	R-1111044	46	450	X	Gross (A) 1:	1.3549	Gross (A) 3:	21.33
					Gross (A) 2:	1.3549		
					B)	1.3453	A-B=	
46	R-1111045	47	455	X	Gross (A) 1:	1.3852	Gross (A) 3:	28.13
					Gross (A) 2:	1.3853		
					B)	1.3724	A-B=	
47	R-1111046	48	435	X	Gross (A) 1:	1.3835	Gross (A) 3:	16.55
					Gross (A) 2:	1.3835		
					B)	1.3763	A-B=	
48	R-1111047	49	450	X	Gross (A) 1:	1.3750	Gross (A) 3:	8.22
					Gross (A) 2:	1.3750		
					B)	1.3713	A-B=	
49	MB	50	1000		Gross (A) 1:	1.3430	Gross (A) 3:	-0.20
					Gross (A) 2:	1.3430		
					B)	1.3432	A-B=	
50	LCS	51	100		Gross (A) 1:	1.3730	Gross (A) 3:	213.00
					Gross (A) 2:	1.3731		
					B)	1.3517	A-B=	
51	R-1111048	52	445	X	Gross (A) 1:	1.3781	Gross (A) 3:	10.56
					Gross (A) 2:	1.3782		
					B)	1.3734	A-B=	
52	44557 R-1110323 DUP	53	250		Gross (A) 1:	1.3646	Gross (A) 3:	64.40
					Gross (A) 2:	1.3647		
					B)	1.3485	A-B=	

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: EW
 Date: 6/23/08

Drying Tins: X Dish 104°C: Weight Actual
 Crucible 550°C: Dish 550°C: s Weights (s): 0.9999 g 1 g
 Dish 180°C: G/O Dishes: g g

ID Number	Weight	
1	1.3565	1.3565
2	1.3553	1.3553
3	1.3553	1.3552
4	1.3609	1.3609
5	1.3720	1.3720
6	1.3649	1.3650
7	1.3674	1.3675
8	1.3704	1.3704
9	1.3682	1.3682
10	1.3673	1.3673
11	1.3471	1.3470
12	1.3627	1.3627
13	1.3633	1.3633
14	1.3576	1.3576
15	1.3639	1.3639
16	1.3566	1.3565
17	1.3655	1.3655
18	1.3667	1.3667
19	1.3662	1.3661
20	1.3681	1.3681
21	1.3557	1.3556
22	1.3530	1.3529
23	1.3706	1.3705
24	1.3687	1.3686
25	1.3627	1.3626
26	1.3662	1.3661
<i>ew</i>	<i>update</i>	

ID Number	Weight	
27	1.3571	1.3571
28	1.3616	1.3616
29	1.3640	1.3640
30	1.3712	1.3711
31	1.3642	1.3641
32	1.3626	1.3625
33	1.3640	1.3638
34	1.3586	1.3586
35	1.3602	1.3602
36	1.3568	1.3568
37	1.3551	1.3550
38	1.3763	1.3762
39	1.3671	1.3671
40	1.3647	1.3647
41	1.3708	1.3708
42	1.3567	1.3567
43	1.3529	1.3529
44	1.3520	1.3520
45	1.3495	1.3495
46	1.3454	1.3453
47	1.3724	1.3724
48	1.3763	1.3763
49	1.3713	1.3713
50	1.3433	1.3432
51	1.3517	1.3517
52	1.3735	1.3734
53	1.3485	1.3485

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW

Date: 6/23/08

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:	WC85161C	6/12/08				216
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

LAS

DI.
 P. 2 source
~~1/1/08~~ 9/20/08
 1/1/08
 2/1/08

LAS

DI

source 10/6/08

0.25 g ^{WSP} Eriochrome
 P. Cap and shake
 0

I and
 in
 12/11/08.

to 200 mL
 8

g ~~Na₂S₂O₃~~
 w/ 100 mL
 for 2 weeks.

ascorbic monohydrate
 exp 1/10/09

RP
 6/10/08

(A) TPO₄ Ascorbic Acid

To a tared 1 liter plastic bottle add
 - 30g Ascorbic Acid (WC851256)
 - 487.5 g UPDI
 Degas w/ Helium for 5 mins then add
 0.50g Dodecyl Sodium sulfate (WC76287E)
 Store at 4°C, exp. 1 wk 6/17/08

6/11/08

(B) Ascorbic Acid - Kowals

- same as WC85741F, Exp 2 weeks 6/25/08

6/12/08

(C) TSS Reference

0.2163g Katalin (WC69285G) brought to 1000g w/DI.
 Store in plastic @ 4°C. Expire 6/12/09. TV=216 mg/L

6/12/08
 Nm

(D) Std. KIO₃ Titrant - Chlorine Demand

- same as WC85006D. Prepare fresh each run, -

(E) 0.00564N Sodium Thiosulfate - Chlorine Demand

- same as WC85148D. Exp. 2 weeks, ~~6/26/08~~ 6/26/08
 nm 6/12/08

(F) Stock Chlorine Solution - Chlorine Demand

- same as WC85101H. Prepare fresh each run and
 standardize with use.

6/12/08 (G) Color Reagent - TKN

Nm - same as WC85155E. Exp. 7/12/08.

(H) 0.8 M NaOH - TKN

To a tared 1-L vol. flask add 32.0g NaOH pellets
 (WC85153E) and ~ 800 mLs UPDI. stir until dissolved.
 Bring to volume w/UPDI. Store @ RT in plastic.
 Exp. 1 month, 7/12/08.

(I) Sodium Phenolate - NH₃

To a tared 1-L amber bottle add:

- 888 g UPDI
- 94.2 g liquefied phenol (WC85146G)
- 32.0 g NaOH pellets (WC85153E)

Stir until dissolved. Prepare and dissolve in hood.
 Store @ 4°C. Exp. 1 year, 6/12/09.

2 June

R44538
R44629
R44621
3 copies

Run #: 162885
Analyte: TSS SM2540D TOTAL SUSPENDED SOLIDS
Printed: 06/30/08 16:01

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLK5		1113326	WATER	-0.200	1.0	1.00			06/25/2008		
SPKB		1113327	WATER	157	1.0	1.00	74.1		06/25/2008		
ESMP	R2844538	1111264	WATER	77.7	1.0	1.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111265	WATER	2.10	1.0	1.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111266	WATER	42.3	1.0	1.00			06/25/2008	RUN	ASPB
ESMP	R2844538	1111267	WATER	2.60	1.0	1.00			06/25/2008	RUN	ASPB
ESMP	R2843432	1093427	WATER	140	1.0	1.00			06/25/2008		1
ESMP	R2843432	1093430	WATER	525	1.0	1.00			06/25/2008		1
ESMP	R2843942	1101417	WATER	4.80	1.0	1.00			06/25/2008	RUN	2
ESMP	R2844268	1106179	WATER	15.0	1.0	1.00			06/25/2008	RUN	2
ESMP	R2844268	1106183	WATER	9.43	1.0	1.00			06/25/2008	RUN	2
ESMP	R2844268	1106187	WATER	2.20	1.0	1.00			06/25/2008	RUN	2
ESMP	R2844268	1106191	WATER	9.87	1.0	1.00			06/25/2008	RUN	2
ESMP	R2844626	1111647	WATER	5.90	1.0	1.00			06/25/2008	RUN	2
ESMP	R2844626	1111649	WATER	7.60	1.0	1.00			06/25/2008	RUN	2
ESMP	R2844626	1111651	WATER	5.10	1.0	1.00			06/25/2008	RUN	2
ESMP	R2844626	1111653	WATER	5.20	1.0	1.00			06/25/2008	RUN	2
ESMP	R2844629	1111668	WATER	3.40	1.0	1.00			06/25/2008	RUN	ASPB
ESMP	R2843634	1096170	WATER	600	1.0	1.00			06/25/2008		1
LDUP		1113328	WATER	558	1.0	1.00		7.19	06/25/2008		
ESMP	R2843634	1096171	WATER	84.6	1.0	1.00			06/25/2008		1
ESMP	R2843634	1096176	WATER	5.03	1.0	1.00			06/25/2008		1
SPKB		1113621	WATER	186	1.0	1.00	87.7		06/25/2008		

Records printed: 23

✓OK 6/30/08

SOLIDS / GREASE & OIL REPORT

RUN #: 162885 ANALYSIS DATE: 06/25/08 ASSIGNED TO :

TEMPLATE: SM2540D TOTAL SUSPENDED SOLIDS (TSS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL						FLASK/	LS	LS
			TYPE	GROSS(g)	TARE(g)	DIFF(g)	VOL (ml)	(mg/L)	DISH ID	JOB#	LOC#
1	1113326	R28 0	MBLK	(1.3717-	1.3719)=	-0.0002	*1E6 /1000	=-0.200	1		
2	1113327	R28 0	LCS	(1.3821-	1.3664)=	0.0157	*1E6 /100	= 157	2		
3	1111264	R2844538	ESMP	(1.4131-	1.3618)=	0.0513	*1E6 /660	=77.7	3		
4	1111265	R2844538	ESMP	(1.3522-	1.3501)=	0.0021	*1E6 /1000	=2.10	4		
5	1111266	R2844538	ESMP	(1.4040-	1.3617)=	0.0423	*1E6 /1000	=42.3	5		
6	1111267	R2844538	ESMP	(1.3786-	1.3760)=	0.0026	*1E6 /1000	=2.60	6		
7	1093427	R2843432	ESMP	(1.3829-	1.3710)=	0.0119	*1E6 /85	= 140	7		
8	1093430	R2843432	ESMP	(1.3976-	1.3635)=	0.0341	*1E6 /65	= 525	8		
9	1101417	R2843942	ESMP	(1.3652-	1.3604)=	0.0048	*1E6 /1000	=4.80	9		
10	1106179	R2844268	ESMP	(1.3764-	1.3659)=	0.0105	*1E6 /700	=15.0	10		
11	1106183	R2844268	ESMP	(1.3618-	1.3552)=	0.0066	*1E6 /700	=9.43	11		
12	1106187	R2844268	ESMP	(1.3667-	1.3645)=	0.0022	*1E6 /1000	=2.20	12		
13	1106191	R2844268	ESMP	(1.3719-	1.3645)=	0.0074	*1E6 /750	=9.87	13		
14	1111647	R2844626	ESMP	(1.3691-	1.3632)=	0.0059	*1E6 /1000	=5.90	14		
15	1111649	R2844626	ESMP	(1.3754-	1.3678)=	0.0076	*1E6 /1000	=7.60	15		
16	1111651	R2844626	ESMP	(1.3578-	1.3527)=	0.0051	*1E6 /1000	=5.10	16		
17	1111653	R2844626	ESMP	(1.3760-	1.3708)=	0.0052	*1E6 /1000	=5.20	17		
18	1111668	R2844629	ESMP	(1.3724-	1.3690)=	0.0034	*1E6 /1000	=3.40	18		
19	1096170	R2843634	ESMP	(1.3675-	1.3591)=	0.0084	*1E6 /14	= 600	19		
20	1113328	R28 0	DUPE	(1.3581-	1.3514)=	0.0067	*1E6 /12	= 558	20		
21	1096171	R2843634	ESMP	(1.3731-	1.3668)=	0.0063	*1E6 /74.5	=84.6	21		
22	1096176	R2843634	ESMP	(1.3722-	1.3683)=	0.0039	*1E6 /775	=5.03	22		
23	1113621	R28 0	LCS	(1.3874-	1.3688)=	0.0186	*1E6 /100	= 186	26		

Analyte: Total Suspended Solids (TSS)

Analyst: E.WOLFE

Date: 6/25/08

Method: 160.2 / SM20 2540D

Pipet: N/A

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: WC85169B

TV: 212 Balance ID: AE240

Filter Lot: WC85154B 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	1	1000		Gross (A) 1:	1.3717	Gross (A) 3:	-0.20
					Gross (A) 2:	1.3717		
					B)	1.3719	A-B=	
2	LCS	2	100		Gross (A) 1:	1.3822	Gross (A) 3:	157.00
					Gross (A) 2:	1.3821		
					B)	1.3664	A-B=	
3	44538 R-1111264	3	660		Gross (A) 1:	1.4131	Gross (A) 3:	77.73
					Gross (A) 2:	1.4133		
					B)	1.3618	A-B=	
4	R-1111265	4	1000		Gross (A) 1:	1.3522	Gross (A) 3:	2.10
					Gross (A) 2:	1.3523		
					B)	1.3501	A-B=	
5	R-1111266	5	1000		Gross (A) 1:	1.4042	Gross (A) 3:	42.30
					Gross (A) 2:	1.4040		
					B)	1.3617	A-B=	
6	R-1111267	6	1000		Gross (A) 1:	1.3786	Gross (A) 3:	2.60
					Gross (A) 2:	1.3788		
					B)	1.3760	A-B=	
7	43432 R-1093427	7	85		Gross (A) 1:	1.3831	Gross (A) 3:	140.00
					Gross (A) 2:	1.3829		
					B)	1.3710	A-B=	
8	R-1093430	8	65		Gross (A) 1:	1.3982	Gross (A) 3:	524.62
					Gross (A) 2:	1.3976		
					B)	1.3635	A-B=	
9	44761318 73942 R-1101417	9	1000		Gross (A) 1:	1.3652	Gross (A) 3:	4.80
					Gross (A) 2:	1.3653		
					B)	1.3604	A-B=	
10	44268 R-1106179	10	700		Gross (A) 1:	1.3764	Gross (A) 3:	15.00
					Gross (A) 2:	1.3766		
					B)	1.3659	A-B=	
11	R-1106183	11	700		Gross (A) 1:	1.3618	Gross (A) 3:	9.43
					Gross (A) 2:	1.3620		
					B)	1.3552	A-B=	
12	R-1106187	12	1000		Gross (A) 1:	1.3667	Gross (A) 3:	2.20
					Gross (A) 2:	1.3669		
					B)	1.3645	A-B=	
13	R-1106191	13	750		Gross (A) 1:	1.3719	Gross (A) 3:	9.87
					Gross (A) 2:	1.3719		
					B)	1.3645	A-B=	

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

Pipet: N/A

Date: 6/25/08

Time: 14:00

TS _____ TDS _____ TSS X

LCS Lot: WC85169B TV: 212 Balance ID: AE240

Filter Lot: WC85154B Oven ID: 2 *Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
14	44626	R-1111647	14	1000	Gross (A) 1:	1.3691	Gross (A) 3:	5.90
					Gross (A) 2:	1.3693		
					B)	1.3632	A-B=	
15	R-1111649	15	1000		Gross (A) 1:	1.3754	Gross (A) 3:	7.60
					Gross (A) 2:	1.3756		
					B)	1.3678	A-B=	
16	R-1111651	16	1000		Gross (A) 1:	1.3578	Gross (A) 3:	5.10
					Gross (A) 2:	1.3578		
					B)	1.3527	A-B=	
17	R-1111653	17	1000		Gross (A) 1:	1.3760	Gross (A) 3:	5.20
					Gross (A) 2:	1.3760		
					B)	1.3708	A-B=	
18	44629	R-1111668	18	1000	Gross (A) 1:	1.3724	Gross (A) 3:	3.40
					Gross (A) 2:	1.3725		
					B)	1.3690	A-B=	
19	43634	R-1096170	19	14	Gross (A) 1:	1.3675	Gross (A) 3:	600.00
					Gross (A) 2:	1.3676		
					B)	1.3591	A-B=	
20	R-1096170 DUP	20	12		Gross (A) 1:	1.3581	Gross (A) 3:	558.33
					Gross (A) 2:	1.3581		
					B)	1.3514	A-B=	
21	R-1096171	21	74.5		Gross (A) 1:	1.3731	Gross (A) 3:	84.56
					Gross (A) 2:	1.3733		
					B)	1.3668	A-B=	
22	R-1096176	22	775		Gross (A) 1:	1.3722	Gross (A) 3:	5.03
					Gross (A) 2:	1.3723		
					B)	1.3683	A-B=	
23	43439	R-1093526	37	63	Gross (A) 1:	1.3739	Gross (A) 3:	61.90
					Gross (A) 2:	1.3740		
					B)	1.3700	A-B=	
24	R-1093526 DUP	38	66		Gross (A) 1:	1.3660	Gross (A) 3:	63.64
					Gross (A) 2:	1.3660		
					B)	1.3618	A-B=	
25	MB	25	1000		Gross (A) 1:	1.3644	Gross (A) 3:	-0.40
					Gross (A) 2:	1.3646		
					B)	1.3648	A-B=	
26	LCS	26	100		Gross (A) 1:	1.3874	Gross (A) 3:	186.00
					Gross (A) 2:	1.3874		
					B)	1.3688	A-B=	

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: 6/25/08

Method: 160.2 / SM20 2540D

Pipet: N/A

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: WC85169B

TV: 212 Balance ID: AE240

Filter Lot: WC85154B

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	44503	R-1109355	27	1000	Gross (A) 1:	1.3685	Gross (A) 3:	1.80
					Gross (A) 2:	1.3686		
					B)	1.3667	A-B=	
28	R-1109356	28	1000		Gross (A) 1:	1.3607	Gross (A) 3:	1.60
					Gross (A) 2:	1.3608		
					B)	1.3591	A-B=	
29	44621	R-1111407	29	285	Gross (A) 1:	1.3853	Gross (A) 3:	41.75
					Gross (A) 2:	1.3854		
					B)	1.3734	A-B=	
30	R-1111638	30	1000		Gross (A) 1:	1.3739	Gross (A) 3:	0.60
					Gross (A) 2:	1.3740		
					B)	1.3731	A-B=	
31	R-1111639	31	410		Gross (A) 1:	1.3777	Gross (A) 3:	28.54
					Gross (A) 2:	1.3777		
					B)	1.3660	A-B=	
32	R-1111640	32	1000		Gross (A) 1:	1.3748	Gross (A) 3:	6.80
					Gross (A) 2:	1.3748		
					B)	1.3680	A-B=	
33	R-1111726	33	1000		Gross (A) 1:	1.3549	Gross (A) 3:	1.30
					Gross (A) 2:	1.3550		
					B)	1.3536	A-B=	
34	R-1111727	34	930		Gross (A) 1:	1.3700	Gross (A) 3:	8.28
					Gross (A) 2:	1.3700		
					B)	1.3623	A-B=	
35	43634	R-1096172	35	3.3	Gross (A) 1:	1.3823	Gross (A) 3:	7909.09
					Gross (A) 2:	1.3821		
					B)	1.3560	A-B=	
36	R-1096172 DUP	36	2.5		Gross (A) 1:	1.3715	Gross (A) 3:	8480.00
					Gross (A) 2:	1.3715		
					B)	1.3503	A-B=	

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: 6/25/08

Drying Tins: X Dish 104°C: Weight Actual
 Crucible 550°C: Dish 550°C: s Weights (s): 1 g 1 g
 Dish 180°C: G/O Dishes: g g

ID Number	Weight	
1	1.3719	1.3719
2	1.3665	1.3664
3	1.3619	1.3618
4	1.3502	1.3501
5	1.3618	1.3617
6	1.3760	1.3760
7	1.3710	1.3710
8	1.3635	1.3635
9	1.3604	1.3604
10	1.3659	1.3659
11	1.3552	1.3552
12	1.3646	1.3645
13	1.3645	1.3645
14	1.3633	1.3632
15	1.3678	1.3678
16	1.3527	1.3527
17	1.3709	1.3708
18	1.3690	1.3690

ID Number	Weight	
19	1.3591	1.3591
20	1.3515	1.3514
21	1.3669	1.3668
22	1.3684	1.3683
37	1.3700	1.3700
38	1.3618	1.3618
25	1.3648	1.3648
26	1.3688	1.3688
27	1.3667	1.3667
28	1.3591	1.3591
29	1.3734	1.3734
30	1.3731	1.3731
31	1.3660	1.3660
32	1.3680	1.3680
33	1.3537	1.3536
34	1.3623	1.3623
35	1.3560	1.3560
36	1.3503	1.3503

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW

Date: 6/25/08

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:	WC85169B	6/24/08				212
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.

B) to 200 mLs
al volume equals 400 mLs)

6/24/08 (A) Ascorbic Acid - TPO4
Nm - same as WC85104I. Exp. 1 wk, 7/1/08

6/24/08 (B) TSS Reference
EW 0.2121g Kaolin (WC69285G) brought to 1000g w/DI.
Store in Plastic Bottle @ 4°C
TV = 212 mg/L Exp: 6/24/09 (4409)

12/4/08

6/24/08 Received from VWR
AB (C) (1) x 125g Potassium Hydrogen Phthalate,
Cat # PX1476-3, EMD Lot # 47183801, CAS #
877-24-7. Store @ R.T. Expires 6/24/13.

ich run.

6/25/08 (D) Received from Honeywell
Cmw (D) (4) x 4L Chloroform, CAT# 048-4, Honeywell
Lot # CW014. CAS# 67-66-3. Store @ RT.
Expires 5 years from receipt, 6/25/2013.
(E) (4) x 4L Chloroform, CAT# 048-4, Honeywell
Lot # CW310. CAS# 67-66-3. Store @ RT.
Expires 5 years from receipt, 6/25/2013.

□

ical, Cat #
12011.
01-0.

6/25/08 (F) Buffer - TOTN
Nm - same as WC85146A. Exp. 1 year, 6/25/09.

C)
0
0.3
0
0
0.0

↓ (G) Color Reagent - TOTN
- same as WC85123A. Exp. 1 month, 7/25/08.

6/25/08 Received from VWR
AB (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

Carbon
carbon.

6/25/08 (I) Alkalinity Reference SeVn 50 mg/L
Cm 10.0 ml 5000 mg/L Alk Ref. Stock (WC85157H) to 1 L vol. with DI.
Store in plastic at 4°C exp 12 months 12/2/08

analyze.

DATE PRINTED: 07/02/08

SOLIDS / GREASE & OIL REPORT

RUN #: 163035 ANALYSIS DATE: 06/27/08 ASSIGNED TO :

TEMPLATE: SM2540D TOTAL SUSPENDED SOLIDS (TSS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL					VOL (ml)	(mg/L)	FLASK/	LS	LS
			TYPE	GROSS (g)	TARE (g)	DIFF (g)	DISH ID			JOB#	LOC#	
1	1114207	R28 0	MBLK	(1.3697-	1.3698)=	-0.0001	*1E6 /1000	=-0.100	39			
2	1114208	R28 0	LCS	(1.3961-	1.3746)=	0.0215	*1E6 /100	= 215	54			
3	1111763	R2844538	ESMP	(1.3697-	1.3663)=	0.0034	*1E6 /1000	=3.40	55			
4	1111764	R2844538	ESMP	(1.3875-	1.3692)=	0.0183	*1E6 /1000	=18.3	56			
5	1111765	R2844538	ESMP	(1.3647-	1.3641)=	0.0006	*1E6 /1000	=0.600	57			
6	1106113	R2844263	ESMP	(1.3817-	1.3787)=	0.0030	*1E6 /1000	=3.00	58			
7	1111971	R2844645	ESMP	(1.3628-	1.3560)=	0.0068	*1E6 /480	=14.2	59			
8	1112065	R2844650	ESMP	(1.3709-	1.3690)=	0.0019	*1E6 /1000	=1.90	60			
9	1112066	R2844650	ESMP	(1.3626-	1.3594)=	0.0032	*1E6 /1000	=3.20	61			
10	1112067	R2844650	ESMP	(1.3611-	1.3612)=	-0.0001	*1E6 /1000	=-0.100	62			
11	1093425	R2843431	ESMP	(1.3867-	1.3750)=	0.0117	*1E6 /63.5	= 184	63			
12	1114209	R28 0	DUPE	(1.3617-	1.3512)=	0.0105	*1E6 /62.5	= 168	63			
13	1093426	R2843431	ESMP	(1.3549-	1.3513)=	0.0036	*1E6 /1000	=3.60	65			
14	1106195	R2844269	ESMP	(1.3693-	1.3598)=	0.0095	*1E6 /1000	=9.50	66			
15	1106199	R2844269	ESMP	(1.3603-	1.3543)=	0.0060	*1E6 /1000	=6.00	67			
16	1106203	R2844269	ESMP	(1.3443-	1.3418)=	0.0025	*1E6 /1000	=2.50	68			
17	1106207	R2844269	ESMP	(1.3514-	1.3437)=	0.0077	*1E6 /1000	=7.70	69			
18	1112486	R2844650	ESMP	(1.3592-	1.3586)=	0.0006	*1E6 /1000	=0.600	700			
19	1112487	R2844650	ESMP	(1.3696-	1.3682)=	0.0014	*1E6 /985	=1.42	71			
20	1112488	R2844650	ESMP	(1.3395-	1.3397)=	-0.0002	*1E6 /1000	=-0.200	72			
21	1112489	R2844650	ESMP	(1.3645-	1.3638)=	0.0007	*1E6 /1000	=0.700	73			

Analyte: Total Suspended Solids (TSS)

Analyst: E. WOLFE

Date: 6/27/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 14:45

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: WC85169B

TV: 212 Balance ID: AE240

Filter Lot: WC85154B 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	39	1000		Gross (A) 1:	1.3697	Gross (A) 3:	-0.10	
					Gross (A) 2:	1.3697			
					B)	1.3698	A-B=		-0.0001
2	LCS	54	100		Gross (A) 1:	1.3961	Gross (A) 3:	215.00	
					Gross (A) 2:	1.3962			
					B)	1.3746	A-B=		0.0215
3	44538	R-1111763	55	1000		Gross (A) 1:	1.3697	Gross (A) 3:	3.40
						Gross (A) 2:	1.3699		
						B)	1.3663	A-B=	
4	R-1111764	56	1000			Gross (A) 1:	1.3876	Gross (A) 3:	18.30
						Gross (A) 2:	1.3875		
						B)	1.3692	A-B=	
5	R-1111765	57	1000			Gross (A) 1:	1.3648	Gross (A) 3:	0.60
						Gross (A) 2:	1.3647		
						B)	1.3641	A-B=	
6	44263	R-1106113	58	1000		Gross (A) 1:	1.3817	Gross (A) 3:	3.00
						Gross (A) 2:	1.3817		
						B)	1.3787	A-B=	
7	44645	R-1111971	59	480	X	Gross (A) 1:	1.3628	Gross (A) 3:	14.17
						Gross (A) 2:	1.3629		
						B)	1.3560	A-B=	
8	44650	R-1112065	60	1000		Gross (A) 1:	1.3710	Gross (A) 3:	1.90
						Gross (A) 2:	1.3709		
						B)	1.3690	A-B=	
9	R-1112066	61	1000			Gross (A) 1:	1.3626	Gross (A) 3:	3.20
						Gross (A) 2:	1.3626		
						B)	1.3594	A-B=	
10	R-1112067	62	1000			Gross (A) 1:	1.3611	Gross (A) 3:	-0.10
						Gross (A) 2:	1.3611		
						B)	1.3612	A-B=	
11	43431	R-1093425	63	63.5		Gross (A) 1:	1.3867	Gross (A) 3:	184.25
						Gross (A) 2:	1.3867		
						B)	1.3750	A-B=	
12	R-1093425 DUP	64	62.5			Gross (A) 1:	1.3617	Gross (A) 3:	168.00
						Gross (A) 2:	1.3618		
						B)	1.3512	A-B=	
13	R-1093426	65	1000			Gross (A) 1:	1.3549	Gross (A) 3:	3.60
						Gross (A) 2:	1.3551		
						B)	1.3513	A-B=	

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: 6/27/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 14:45

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: WC85169B TV: 212 Balance ID: AE240

Filter Lot: WC85154B 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	44269	R-1106195	66	1000	Gross (A) 1:	1.3693	Gross (A) 3:	9.50	
					Gross (A) 2:	1.3694			
					B)	1.3598	A-B=		0.0095
15	R-1106199	67	1000		Gross (A) 1:	1.3603	Gross (A) 3:	6.00	
					Gross (A) 2:	1.3604			
					B)	1.3543	A-B=		0.0060
16	R-1106203	68	1000		Gross (A) 1:	1.3443	Gross (A) 3:	2.50	
					Gross (A) 2:	1.3445			
					B)	1.3418	A-B=		0.0025
17	R-1106207	69	1000		Gross (A) 1:	1.3514	Gross (A) 3:	7.70	
					Gross (A) 2:	1.3516			
					B)	1.3437	A-B=		0.0077
18	44650	R-1112486	70	1000		Gross (A) 1:	1.3592	Gross (A) 3:	0.60
						Gross (A) 2:	1.3593		
						B)	1.3586	A-B=	
19	R-1112487	71	985	X	Gross (A) 1:	1.3696	Gross (A) 3:	1.42	
					Gross (A) 2:	1.3698			
					B)	1.3682	A-B=		0.0014
20	R-1112488	72	1000		Gross (A) 1:	1.3395	Gross (A) 3:	-0.20	
					Gross (A) 2:	1.3396			
					B)	1.3397	A-B=		-0.0002
21	R-1112489	73	1000		Gross (A) 1:	1.3645	Gross (A) 3:	0.70	
					Gross (A) 2:	1.3646			
					B)	1.3638	A-B=		0.0007
22	44621	R-1111897	74	970	X	Gross (A) 1:	1.3655	Gross (A) 3:	2.27
						Gross (A) 2:	1.3657		
						B)	1.3633	A-B=	
23	R-1111898	75	615	X	Gross (A) 1:	1.3640	Gross (A) 3:	15.77	
					Gross (A) 2:	1.3640			
					B)	1.3543	A-B=		0.0097
24	MB	76	1000		Gross (A) 1:	1.3756	Gross (A) 3:	-0.50	
					Gross (A) 2:	1.3757			
					B)	1.3761	A-B=		-0.0005
25	LCS	77	100		Gross (A) 1:	1.3746	Gross (A) 3:	213.00	
					Gross (A) 2:	1.3748			
					B)	1.3533	A-B=		0.0213
26	R-1111899	78	910	X	Gross (A) 1:	1.3605	Gross (A) 3:	10.11	
					Gross (A) 2:	1.3606			
					B)	1.3513	A-B=		0.0092

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: 6/27/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 14:45

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: WC85169B

TV: 212 Balance ID: AE240

Filter Lot: WC85154B

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	R-1111900	79	960	X	Gross (A) 1:	1.3473	Gross (A) 3:	-0.42
					Gross (A) 2:	1.3474		
					B)	1.3477	A-B=	
28	R-1111983	80	795		Gross (A) 1:	1.3701	Gross (A) 3:	7.04
					Gross (A) 2:	1.3704		
					B)	1.3645	A-B=	
29	R-1111983 DUP	81	805		Gross (A) 1:	1.3573	Gross (A) 3:	7.95
					Gross (A) 2:	1.3572		
					B)	1.3508	A-B=	
30	R-1111984	82	605		Gross (A) 1:	1.3633	Gross (A) 3:	11.07
					Gross (A) 2:	1.3634		
					B)	1.3566	A-B=	
31	R-1111985	83	780		Gross (A) 1:	1.3675	Gross (A) 3:	21.92
					Gross (A) 2:	1.3676		
					B)	1.3504	A-B=	
32	R-1111986	84	1000		Gross (A) 1:	1.3615	Gross (A) 3:	-0.30
					Gross (A) 2:	1.3616		
					B)	1.3618	A-B=	
33	R-1111987	85	1000		Gross (A) 1:	1.3561	Gross (A) 3:	2.30
					Gross (A) 2:	1.3561		
					B)	1.3538	A-B=	
34	42942 R-1085904	86	100		Gross (A) 1:	1.3658	Gross (A) 3:	68.00
					Gross (A) 2:	1.3659		
					B)	1.3590	A-B=	
35	R-1085904 DUP	87	100		Gross (A) 1:	1.3684	Gross (A) 3:	68.00
					Gross (A) 2:	1.3686		
					B)	1.3616	A-B=	
36	43440 R-1093532	88	95		Gross (A) 1:	1.3584	Gross (A) 3:	63.16
					Gross (A) 2:	1.3586		
					B)	1.3524	A-B=	
37	R-1093534	89	33		Gross (A) 1:	1.3652	Gross (A) 3:	200.00
					Gross (A) 2:	1.3653		
					B)	1.3586	A-B=	
38	R-1093535	90	216		Gross (A) 1:	1.3838	Gross (A) 3:	20.37
					Gross (A) 2:	1.3839		
					B)	1.3794	A-B=	
39	R-1093535 DUP	91	215		Gross (A) 1:	1.3682	Gross (A) 3:	20.00
					Gross (A) 2:	1.3683		
					B)	1.3639	A-B=	

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: 6/27/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 14:45

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: WC85169B

TV: 212 Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 2

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)	
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:		
40	R-1093537	92	1000		Gross (A) 1:	1.3559	Gross (A) 3:	3.60	
					Gross (A) 2:	1.3560			
					B)	1.3523	A-B=		0.0036
41	43626	R-1096089	93	1000		Gross (A) 1:	1.3525	Gross (A) 3:	3.10
						Gross (A) 2:	1.3527		
						B)	1.3494	A-B=	
42	44647	R-1112012	117	2		Gross (A) 1:	1.3709	Gross (A) 3:	2050.00
						Gross (A) 2:	1.3711		
						B)	1.3668	A-B=	
43	R-1112013	95	2.5			Gross (A) 1:	1.3576	Gross (A) 3:	1480.00
						Gross (A) 2:	1.3577		
						B)	1.3539	A-B=	
44	R-1112014	96	2.1			Gross (A) 1:	1.3495	Gross (A) 3:	1666.67
						Gross (A) 2:	1.3497		
						B)	1.3460	A-B=	
45	R-1112015	97	4.2			Gross (A) 1:	1.3658	Gross (A) 3:	1452.38
						Gross (A) 2:	1.3659		
						B)	1.3597	A-B=	
46	R-1112016	98	2.5			Gross (A) 1:	1.3562	Gross (A) 3:	3160.00
						Gross (A) 2:	1.3564		
						B)	1.3483	A-B=	
47	R-1112017	99	2.4			Gross (A) 1:	1.3644	Gross (A) 3:	4083.33
						Gross (A) 2:	1.3644		
						B)	1.3546	A-B=	
48	R-1112018	101	2			Gross (A) 1:	1.3759	Gross (A) 3:	6950.00
						Gross (A) 2:	1.3760		
						B)	1.3620	A-B=	
49	43440	R-1093532 DUP	115	92		Gross (A) 1:	1.3622	Gross (A) 3:	59.78
						Gross (A) 2:	1.3624		
						B)	1.3567	A-B=	
50	MB	102	1000			Gross (A) 1:	1.3396	Gross (A) 3:	-0.30
						Gross (A) 2:	1.3399		
						B)	1.3399	A-B=	
51	LCS	103	100			Gross (A) 1:	1.3790	Gross (A) 3:	214.00
						Gross (A) 2:	1.3792		
						B)	1.3576	A-B=	
52	44647	R-1112019	104	1.8		Gross (A) 1:	1.3872	Gross (A) 3:	6888.89
						Gross (A) 2:	1.3873		
						B)	1.3748	A-B=	

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: 6/27/08

Method: 160.2 / SM20 2540D

Pipet: N/A

Time: 14:45

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: WC85169B

TV: 212 Balance ID: AE240

Filter Lot: WC85154B

Oven ID: 2

*Lower tare weight used unless marked: _____

Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data			Total Solids (mg/L)
					Gross (A) 1:	Gross (A) 2:	Gross (A) 3:	
53	MB	105	1000		Gross (A) 1:	1.3612	Gross (A) 3:	-0.50
					Gross (A) 2:	1.3614		
					B)	1.3617	A-B=	
54	LCS	106	100		Gross (A) 1:	1.3857	Gross (A) 3:	218.00
					Gross (A) 2:	1.3859		
					B)	1.3639	A-B=	

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: 6/27/08

Drying Tins: X Dish 104°C: _____
 Crucible 550°C: _____ Dish 550°C: _____
 Dish 180°C: _____ G/O Dishes: _____

Weight Actual
 s Weights (s): 0.9999 g 1 g
 _____ g _____ g

ID Number	Weight	
39	1.3700	1.3698
54	1.3746	1.3746
55	1.3664	1.3663
56	1.3692	1.3692
57	1.3642	1.3641
58	1.3787	1.3787
59	1.3560	1.3560
60	1.3691	1.3690
61	1.3595	1.3594
62	1.3612	1.3612
63	1.3750	1.3750
64	1.3512	1.3512
65	1.3514	1.3513
66	1.3598	1.3598
67	1.3543	1.3543
68	1.3419	1.3418
69	1.3437	1.3437
70	1.3587	1.3586
71	1.3682	1.3682
72	1.3397	1.3397
73	1.3638	1.3639
74	1.3633	1.3633
75	1.3543	1.3543
76	1.3761	1.3761
77	1.3533	1.3533
78	1.3513	1.3513
79	1.3477	1.3477
80	1.3645	1.3645
81	1.3508	1.3508
82	1.3567	1.3566

ID Number	Weight	
83	1.3505	1.3504
84	1.3618	1.3618
85	1.3538	1.3538
86	1.3591	1.3590
87	1.3617	1.3616
88	1.3524	1.3524
89	1.3586	1.3586
90	1.3795	1.3794
91	1.3639	1.3639
92	1.3523	1.3523
93	1.3495	1.3494
94	1.3611	1.3610
95	1.3539	1.3539
96	1.3460	1.3460
97	1.3597	1.3597
98	1.3483	1.3483
99	1.3547	1.3546
100	1.3707	1.3707
101	1.3621	1.3620
102	1.3399	1.3399
103	1.3576	1.3576
104	1.3749	1.3748
105	1.3617	1.3617
106	1.3639	1.3639
117	1.3668	1.3668
115	1.3568	1.3567
EW 7/2/08		

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW

Date: 6/27/08

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:	WC85169B	6/24/08				212
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.

B) to 200mLs
al volume equals 400mLs)

6/24/08 (A) Ascorbic Acid - TPC4
Nm - same as WC85164I. Exp. 1wk, 7/1/08

6/24/08 (B) TSS Reference
EW 0.2121g Kaolin (WC69285G) brought to 1000g w/DI.
Store in Plastic Bottle @ 4°C
TV = 212 mg/L Exp: 6/24/09 (4409)

1/24/08

6/24/08 Received from VWB
AB (C) (1) x 125g Potassium Hydrogen Phthalate,
Cat # PX1474-3, EMD Lot # 47183801, CAS #
877-24-7. Store @ R.T. Expires 6/24/13.

sch run.

5

6/25/08 (D) Received from Honeywell
Cmw (D) (4) x 4L Chloroform, CAT# 048-4, Honeywell
Lot# CWO14. CAS# 67-66-3. Store @ RT.
Expires 5 years from receipt, 6/25/2013.
(E) (4) x 4L Chloroform, CAT# 048-4, Honeywell
Lot# CW310. CAS# 67-66-3. Store @ RT.
Expires 5 years from receipt, 6/25/2013.

ical, Cat#
12011.
01-0.

6/25/08 (F) Buffer - TOTN
Nm - same as WC85146A. Exp. 1 year, 6/25/09.

(C)
0
0.3
1.0
3.0
2.0

(G) Color Reagent - TOTN
- same as WC85123A. Exp. 1 month, 7/25/08.

6/25/08 Received from VWB
AB (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

Carbon
carbon.

6/25/08 (I) Alkalinity Reference Sol'n 50mg/L
Cmw 10.0 ml 5000 mg/L Alk Ref. Stock (WC25157H) to 1L vol. with DI.
Store in plastic at 4°C exp 6 months 12/2/08

analyze.