



Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #
3825104167

Expiration Date
7/18/2011

I. Decision Request:

Initial Recertification Change

Disposal Facility: 3825 - Apex Regional Landfill (Silver State Disposal)

Generator Name: TRONOX

Generator Site Address: 560 W LAKE MEAD PKWY

City: HENDERSON

County: _____

State: NV

Zip: _____

Name of Waste: MAGANESES DIOXIDE TAILING

Estimated Annual Volume: 240,000 Cubic Yards

II. Special Waste Department Decision: Approved Rejected

Management Method(s): Landfill Solidification Bioremediation Transfer Facility


Problematic Special Waste according to Republic? Yes No

If yes, which one? _____

Approved by Special Waste Review Committee? Yes No Not Applicable

Precautions, Conditions or Limitations on Approval

"Dusty/Powdery" Material: Waste must be shipped in a manner that minimizes fugitive dust emissions.
Proper PPE must be worn when handling this material.

Special Waste Analyst Signature: 
Date: 3/31/2010

Name (Printed): MARK PHILLIPS

III. Facility Decision: Approved Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____
Date: 3/31/2010

Name (Printed): _____



SPECIAL WASTE PROFILE

Requested Disposal Facility: Apex Regional LF NV 3825	Waste Profile #
	3825104167
	Sales Rep #. 476 Rob Tidwell

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Generator Name: Tronox LLC			
Generator Site Address: 560 West Lake Mead Pkwy			
City: Henderson	County: Clark	State: Nevada	Zip: 89015
State ID/Reg No: NA	State Approval/Waste Code: NA	(if applicable)	NAICS # : SIC 2819
Generator Mailing Address (if different): PO Box 55			
City: Henderson	County: Clark	State: Nevada	Zip: 89009
Generator Contact Name: Susan Crowley / Rick Stater		Email: smcrowley@cox.net	
Phone Number: 7025927727	Ext: NA	Fax Number: 7026512310	

IIa. Transporter Information

Transporter Name: Werdco	Contact Name: Brandon Conrad		
Transporter Address: 4660 Flippin St			
City: Las Vegas	County: Clark	State: NV	Zip: 89131
Phone Number:	Fax Number:	State Transportation Number:	

IIb. Billing Information

Bill To: Tronox LLC	Contact Name: Susan Crowley		
Billing Address: PO Box 55		Email: smcrowley@cox.net	
City: Henderson	State: NV	Zip: 89009	Phone: 7025927727

III. Waste Stream Information

Name of Waste: Manganese dioxide tailing
Process Generating Waste: Manganese dioxide tailings are the left over material from a beneficiating process whereby manganese dioxide ore is leached and most manganese content is removed for product.
Physical State: <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment: <input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume: 240,000 Cubic Yards <input checked="" type="checkbox"/>
Frequency: <input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ANNUAL
Disposal Consideration: <input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

IV. Representative Sample Certification

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?		<input type="checkbox"/> NO SAMPLE TAKEN
Sample Date: JAN 14 2010		<input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Sample Date: June 24 2008	Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input checked="" type="checkbox"/> GRAB SAMPLE	
Sample ID Numbers: NEW TAILINGS SAMPLE ID # 001 Project REFERENCE NEW TAILINGS		

SAMPLE ID: MNOZ TAILINGS



Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components		% by Weight (range)	
1. Undissolved soil / ore		95.000	
2. Sulfided metal (manganese) precipitate from acidic solution		5.000	
3.			
4.			
5.			
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids
Gray Brown	None	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No	100.00
			pH: NA
			Flash Point NA °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile

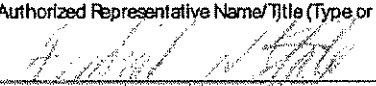
Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and it epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input checked="" type="checkbox"/> Yes or <input type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD-like facility or waste consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither I nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Fredrick R. Stater	Tronox LLC
Authorized Representative Name/Title (Type or Print)	Company Name
 Authorized Representative Signature	02/26/2010 Date



LABORATORY REPORT

DATE: January 25, 2010

REPORT NUMBER: 10-0148

CLIENT: Tronox
P.O. Box 55
Henderson, NV 89009

PAGE: 1 of 1

CLIENT PROJECT:

CLIENT PO #:

Sampled By: M. Skromyda
Date Sampled: 01/14/10
Time Sampled: 1100

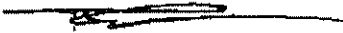
Submitted by: M. Skromyda
Date Received: 01/14/10
Time Received: 1335

Report Attention: M. Skromyda

Sample ID	Parameter	Result	Unit	Reporting Limit	Method	Date Analyzed	Analyst
MnO ₂ Tailings	Reactive Cyanide	ND	mg/kg	0.05	SWB46 7.3.3.2 (2)	01/21/10	KK
	Reactive Sulfide	ND	mg/kg	2	SWB46 7.3.4.1 (2)	01/25/10	SW

ND: non-detect
EPA Flags: none

REVIEWED BY:


Ronald W. Winter
Laboratory Director



3638 E. Sunset Road, Suite 100, Las Vegas, Nevada 89120
 Phone: (702) 873-4478 Fax: (702) 873-7967 www.ssalabs.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project/Job #:	Payment Method/PO #:	Name: <u>Sam R</u>
SEND INVOICE TO:	Name: <u>Michael Skromyda</u>	Company: <u>Ironox LLC</u>
	Mailing Address: <u>P.O. Box 55</u>	City, State, Zip: <u>Henderson, NV 89009</u>
	City, State, Zip:	Phone: _____ Fax: _____

Sampled By: <u>M. Skromyda</u> Report Attention:	Turnaround Time (Specify Below with an X): Standard 10 Business Days <input checked="" type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Other <input type="checkbox"/> NOTE: A surcharge is applied for rush samples.	Other Pertinent Info:	Circle Applicable Program: SDWA CWA RCRA Other <input checked="" type="checkbox"/>
On-Site pH/Temperature: Date Sampled: <u>1/14/10</u> Time Sampled: <u>1100</u>	Sample Location/ Sample ID: <u>MnO₂ Tailings 0148-I</u>	Matrix: <u>S None</u>	Reporting requirements: RL MDL POL Report Levels: I II III IV NOTE: Surcharge rates apply to all report requests.
ANALYSES REQUESTED <u>Reactivity (RCRA) Test</u> <u>40 CFR 261.23</u> <u>(a)(5)</u>		Number/Type of Containers:	*Metals:
Tampering with sample name, date, time, and location may constitute fraud. Relinquished by: <u>Michael Skromyda</u> Signature/Print: <u>[Signature]</u> Time/Date: <u>1/14/10</u>	Relinquished by: <u>[Signature]</u> Signature/Print: <u>[Signature]</u> Time/Date: <u>1/14/10</u>	Relinquished by: <u>[Signature]</u> Signature/Print: <u>[Signature]</u> Time/Date: <u>1/14/10</u>	*Key: AQ - Aqueous S - Soil W - Waste OT - Other
Special Instructions: <u>40 CFR 261.23 (a)(5) Reactivity Test, see Attached</u>		Method of Delivery: _____ Receiving Laboratory: _____	

Authorized by: _____ Date: _____
 Authorization is required to process samples. This obligates your organization for fee processing unless otherwise required. If collections or legal scenarios are required to recover site fees, your organization will be responsible for all fees and cost in addition to service fees.

July 29, 2008

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

Re: New Tailings
Submission # R2844659

Dear Mr. Kennedy:

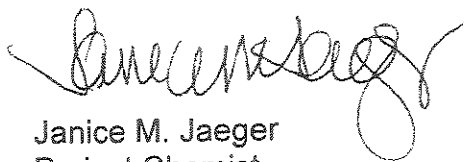
Enclosed is the analytical data report for the above referenced facility. A total of two samples were received by our laboratory on June 25, 2008.

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: NEW - TAILINGS
Lab Submission # : R2844659
Project Manager : Janice Jaeger
Reported : 07/18/08

Report Contains a total of 24 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 E. Perry

CASE NARRATIVE

COMPANY: ENSR
New Tailings
SUBMISSION #: R2844659

ENSR samples were collected on 06/24/08 and received at CAS on 06/25/08 in good condition. The TCLP room temperature dropped to 19 C for an unspecified period of time during the evening of the extraction. The TCLP is required to be at between 20 C and 25 C.

INORGANICS

One soil sample was analyzed for TCLP Metals off the TCLP extraction by methods 1311/6010B/7000 from SW-846.

Site specific QC was not requested for this sample, however was performed. All MS and Blank spike recoveries were within limits. All RPD's were within limits.

No other analytical or QC problems were encountered.

VOLATILE ORGANICS

One soil sample was analyzed for the TCLP Volatiles off the TCLP extract by methods 1311/8260B 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 limits.

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

All samples were analyzed within required holding times.

No other analytical or QC problems were encountered.

DIESEL AND OIL RANGE ORGANICS (DRO AND ORO)

One soil sample was analyzed for DRO and ORO by method 8015B from SW-846.

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

All surrogate standard recoveries were within limits.

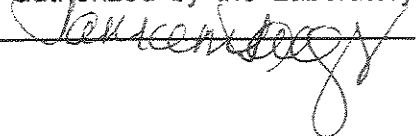
All Blank spike duplicate recoveries were within limits. All Blank spike recoveries and RPD's were outside limits and have been flagged with an "**".

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.

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

A handwritten signature in black ink, appearing to read "J. K. [unclear]", written over a horizontal line.

SDG#:001 BATCH COMPLETE: yes DATE REVISED:
 SUBMISSION R2844659 DISKETTE REQUESTED: Y_X_N DATE DUE: 7/14/08
 CLIENT: ENSR International DATE: 6/25/08 PROTOCOL SW846
 CLIENT REP: Janice Jaeger CUSTODY SEAL: PRESENT/ABSENT:
 PROJECT: NEW- TAILINGS CHAIN OF CUSTODY: PRESENT/ABSENT:
 SHIPPING No.:

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH	% SOLIDS	REMARKS
1112220	001A	SOIL	TCLP 8260 ,METALS	6/24/2008	6/25/2008			
1112221	001	SOIL	DRO/ORO	6/24/2008	6/25/2008			

190007



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
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



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1

ISH # _____ CAS Contact _____

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)		PRESERVATIVE		PRESERVATIVE KEY	
New-Tailings		89009-7000		888		888		0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other ICE	
Project Manager Mike Skromyda		Report CC		TCLP VOC		TCLP Metals		REMARKS/ ALTERNATE DESCRIPTION	
Company/Address Ironox LLC		P.O. Box 55		METALS, TOTAL (List in comments below)		METALS, DISSOLVED (List in comments below)			
Phone # 702-651-2228		FAX#		PCBS 8081 <input type="checkbox"/> 608 <input type="checkbox"/> CLP		PESTICIDES 8021 <input type="checkbox"/> 601/602			
Sampler's Signature Michael Skromyda		Sampler's Printed Name Michael Skromyda		GC VOAs 8270 <input type="checkbox"/> 625 <input type="checkbox"/> CLP		GCMS SVOAs 8260 <input type="checkbox"/> 824 <input type="checkbox"/> CLP			
FOR OFFICE USE ONLY		DATE		SAMPLING TIME		MATRIX			
LAB ID									
CLIENT SAMPLE ID									
NUMBER OF CONTAINERS		1		1		1			
SPECIAL INSTRUCTIONS/COMMENTS Metals		TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 5 day <input type="checkbox"/> STANDARD <input type="checkbox"/> REQUESTED FAX DATE _____ REQUESTED REPORT DATE _____		REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report Edata Yes <input type="checkbox"/> No <input type="checkbox"/>		INVOICE INFORMATION PO# _____ BILL TO: _____ SUBMISSION # _____			
RECEIVED BY Signature Michael Skromyda Printed Name Michael Skromyda Firm CAS Date/Time 10/25/08 9:45		RECEIVED BY Signature Amy Hentschke Printed Name Amy Hentschke Firm CAS Date/Time 10/25/08 9:45		RECEIVED BY Signature _____ Printed Name _____ Firm _____ Date/Time _____		RECEIVED BY Signature _____ Printed Name _____ Firm _____ Date/Time _____		RECEIVED BY Signature _____ Printed Name _____ Firm _____ Date/Time _____	
CUSTODY SEALS: Y N		RELINQUISHED BY		RELINQUISHED BY		RELINQUISHED BY		RELINQUISHED BY	

Cooler Receipt And Preservation Check Form

Project/Client EDSR Submission Number R2844659

Cooler received on 6/25/08 by: AHJ 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: 30

Not relinquished, DO sample name/date/time

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: 6/25/08 1017

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 6/25/08

Cooler Breakdown: Date: 6/26/08 by: AHJ

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								
≤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			
	Zn Aceta	-	-						
	HCl	*	*						

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

Bottle lot numbers: 033108-3
 Other Comments:

PC Secondary Review: JMS 7/1/08

*significant air bubbles are greater than 5-6 mm



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/18/08

ENSR International
Project Reference: NEW - TAILINGS
Client Sample ID : 001

Date Sampled : 06/24/08 Order #: 1112220 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/08 Submission #: R2844659 Analytical Run 163559

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED		: 07/03/08	
ANALYTICAL DILUTION:		10.00	
BENZENE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	50 U	UG/L
VINYL CHLORIDE	5.0	50 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(50 - 135 %)	103	%
TOLUENE-D8	(75 - 128 %)	106	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	101	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/18/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1115242 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Analytical Run 163559

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
BENZENE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(50 - 135 %)	101	%
TOLUENE-D8	(75 - 128 %)	103	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	99	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/18/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1115244 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Analytical Run 163559

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
BENZENE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(50 - 135 %)	100	%
TOLUENE-D8	(75 - 128 %)	103	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	96	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCLP

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1115243 ANALYTICAL RUN #: 163559

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.0		
BENZENE	20.0	102	70 - 130
2-BUTANONE (MEK)	20.0	94	50 - 150
CARBON TETRACHLORIDE	20.0	112	70 - 130
CHLOROBENZENE	20.0	101	70 - 130
CHLOROFORM	20.0	103	70 - 130
1,2-DICHLOROETHANE	20.0	108	70 - 130
1,1-DICHLOROETHENE	20.0	107	70 - 130
TETRACHLOROETHENE	20.0	95	70 - 130
TRICHLOROETHENE	20.0	101	70 - 130
VINYL CHLORIDE	20.0	116	70 - 130

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B DIESEL/OIL RANGE
Reported: 07/18/08

ENSR International
Project Reference: NEW - TAILINGS
Client Sample ID : 001

Date Sampled : 06/24/08 Order #: 1112221 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/08 Submission #: R2844659 Percent Solid: 67.9

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED		: 06/27/08	
DATE ANALYZED		: 06/30/08	
ANALYTICAL DILUTION:	1.00		Dry Weight
DIESEL RANGE ORGANICS	40000	59000 U	UG/KG
OIL RANGE ORGANICS	40000	75000	UG/KG
<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
O-TERPHENYL	(68 - 138 %)	93	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B DIESEL/OIL RANGE
Reported: 07/18/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #:	1112839	Sample Matrix:	SOIL/SEDIMENT
Date Received:	Submission #:		Percent Solid:	100

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/27/08		
DATE ANALYZED	: 06/30/08		
ANALYTICAL DILUTION:	1.00		Dry Weight
DIESEL RANGE ORGANICS	40000	40000 U	UG/KG
OIL RANGE ORGANICS	40000	40000 U	UG/KG
<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
O-TERPHENYL	(68 - 138 %)	82	%

LUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
SOIL/SEDIMENT

Spiked Order No. : 1112840

Dup Spiked Order No. : 1112841

Client ID:

Test: 8015B DIESEL/OIL RANGE

Analytical Units: UG/KG

Run Number : 163080

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		BLANK SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
DIESEL RANGE ORGANICS	250000	0	360000	144 *	200000	80	57 *	30	51 - 114

METALS
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Contract: R2844659 SDG No.: 001
Lab Code: _____ Case No.: _____ SAS No.: _____
Job No.: SW846 CLP-M Client: ENSR International

Sample No.	Lab Sample ID.
<u>001</u>	<u>1112220</u>
<u>001D</u>	<u>1112220D</u>
<u>001S</u>	<u>1112220S</u>

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: See Attached Case Narrative

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 conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Michael K. Perry Name: Michael K. Perry
Date: 7/29/88 Title: Laboratory Manager

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

001

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

Matrix (soil/water): TCLP

Lab Sample ID: 1112220

Level (low/med): LOW

Date Received: 06/25/08

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	500	U		P
7440-39-3	Barium	1000	U		P
7440-43-9	Cadmium	244			P
7440-47-3	Chromium	426			P
7439-92-1	Lead	123			P
7439-97-6	Mercury	0.20	U		CV
7782-49-2	Selenium	597			P
7440-22-4	Silver	193			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-3-

BLANKS

Contract: R2844659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Arsenic	500.0	U	500.0	U	500.0	U	500.0	U	500.000	U	P
Barium	1000.0	U	1000.0	U	1000.0	U	1000.0	U	1000.000	U	P
Cadmium	100.0	U	100.0	U	100.0	U	100.0	U	100.000	U	P
Chromium	100.0	U	100.0	U	100.0	U	100.0	U	100.000	U	P
Lead	100.0	U	100.0	U	100.0	U	100.0	U	100.000	U	P
Mercury	0.20	U	0.20	U	0.20	U			0.200	U	CV
Selenium	500.0	U	500.0	U	500.0	U	500.0	U	500.000	U	P
Silver	100.0	U	100.0	U	100.0	U	100.0	U	100.000	U	P

METALS

-3-

BLANKS

Contract: R2844659

Lab Code: Case No.: SAS No.: SDG NO.: 001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	
		1	C	2	C	3	C	C	M
Arsenic		500.0	U	500.0	U	500.0	U		P
Barium		1000.0	U	1000.0	U	1000.0	U		P
Cadmium		100.0	U	100.0	U	100.0	U		P
Chromium		100.0	U	100.0	U	100.0	U		P
Lead		100.0	U	100.0	U	100.0	U		P
Selenium		500.0	U	500.0	U	500.0	U		P
Silver		100.0	U	100.0	U	100.0	U		P

METALS

-3-

BLANKS

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	
		C	1	C	2	C	3	C	M
Arsenic			500.0	U					P
Barium			1000.0	U					P
Cadmium			100.0	U					P
Chromium			100.0	U					P
Lead			100.0	U					P
Selenium			500.0	U					P
Silver			100.0	U					P

METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

001S

Contract: R2844659

Lab Code: Case No.: SAS No.: SDG NO.: 001

Matrix (soil/water): TCLP Level (low/med): LOW

Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	5089.4760	500.0000 U	5000.00	101.8		P
Barium	75 - 125	4540.5107	1000.0000 U	5000.00	90.8		P
Cadmium	75 - 125	1147.7959	244.3590	1000.00	90.3		P
Chromium	75 - 125	4813.9614	426.1750	5000.00	87.8		P
Lead	75 - 125	4699.6968	123.2509	5000.00	91.5		P
Mercury	75 - 125	1.0020	0.2000 U	1.00	100.2		CV
Selenium	75 - 125	1522.8823	597.0237	1000.00	92.6		P
Silver	75 - 125	5392.8833	192.9658	5000.00	104.0		P

Comments: _____

METALS

-6-

DUPLICATES

SAMPLE NO.

001D

Contract: R2844659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 001

Matrix (soil/water): TCLP Level (low/med): LOW

Solids for Sample: 0.0 % Solids for Duplicate: _____

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		500.0000	U	500.0000	U			P
Barium		1000.0000	U	1000.0000	U			P
Cadmium	100.0	244.3590		216.6665		12.0		P
Chromium	100.0	426.1750		378.7242		11.8		P
Lead	100.0	123.2509		109.1337		12.1		P
Mercury		0.2000	U	0.2000	U			CV
Selenium	500.0	597.0237		523.6437		13.1		P
Silver	100.0	192.9658		169.9002		12.7		P

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R2844659

Lab Code: Case No.: SAS No.: SDG NO.: 001

Solid LCS Source:

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic	5000.0	4694.78	93.9					
Barium	5000.0	4622.60	92.5					
Cadmium	1000.0	931.25	93.1					
Chromium	5000.0	4636.59	92.7					
Lead	5000.0	5138.34	102.8					
Mercury	1.0	1.02	102.0					
Selenium	1000.0	873.10	87.3					
Silver	5000.0	5033.72	100.7					

COLUMBIA ANALYTICAL SERVICES

Reported: 07/18/08

ENSR International
Project Reference: NEW - TAILINGS
Client Sample ID : 001

Date Sampled : 06/24/08 Order #: 1112221 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/08 Submission #: R2844659

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.00	67.9	%	06/30/08	11:30	1.0

July 29, 2008

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

Re: New Tailings
Submission # R2844659

Dear Mr. Kennedy:

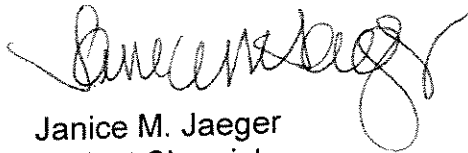
Enclosed is the analytical data report for the above referenced facility. A total of two samples were received by our laboratory on June 25, 2008.

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: NEW - TAILINGS
Lab Submission # : R2844659
Project Manager : Janice Jaeger
Reported : 07/18/08

Report Contains a total of 363 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 E. Perry

SDG NARRATIVE

CASE NARRATIVE

COMPANY: ENSR
New Tailings
SUBMISSION #: R2844659

ENSR samples were collected on 06/24/08 and received at CAS on 06/25/08 in good condition. The TCLP room temperature dropped to 19 C for an unspecified period of time during the evening of the extraction. The TCLP is required to be at between 20 C and 25 C.

INORGANICS

One soil sample was analyzed for TCLP Metals off the TCLP extraction by methods 1311/6010B/7000 from SW-846.

Site specific QC was not requested for this sample, however was performed. All MS and Blank spike recoveries were within limits. All RPD's were within limits.

No other analytical or QC problems were encountered.

VOLATILE ORGANICS

One soil sample was analyzed for the TCLP Volatiles off the TCLP extract by methods 1311/8260B 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 limits.

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

All samples were analyzed within required holding times.

No other analytical or QC problems were encountered.

DIESEL AND OIL RANGE ORGANICS (DRO AND ORO)

One soil sample was analyzed for DRO and ORO by method 8015B from SW-846.

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

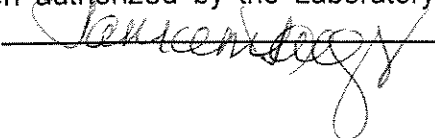
All surrogate standard recoveries were within limits.

All Blank spike duplicate recoveries were within limits. All Blank spike recoveries and RPD's were outside limits and have been flagged with an "**".

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.

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature. 

SDG#:001
 SUBMISSION R2844659
 CLIENT: ENSR International
 CLIENT REP: Janice Jaeger
 PROJECT: NEW - TAILINGS
 BATCH COMPLETE: yes
 DISKETTE REQUESTED: Y_X_N
 DATE: 6/25/08
 CUSTODY SEAL: PRESENT/ABSENT:
 CHAIN OF CUSTODY: PRESENT/ABSENT:
 DATE REVISED:
 DATE DUE: 7/14/08
 PROTOCO SW846
 SHIPPING No.:

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS		DATE SAMPLED	DATE RECEIVED (SOLIDS)	pH	% SOLIDS	REMARKS
1112220	001	SOIL	TCLP 8260	METALS	6/24/2008	6/25/2008			
1112221	001	SOIL	DRO	ORO	6/24/2008	6/25/2008			

00005



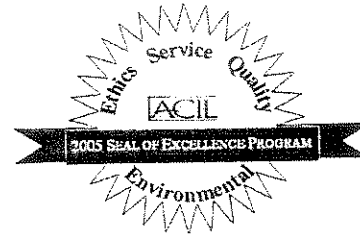
ORGANIC QUALIFIERS

- 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
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID # 68-786
Rhode Island ID # 158
West Virginia ID # 292

CHAINS OF CUSTODY
INTERNAL CHAINS



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1

CAS Contact

Project Name New Tailings		Project Number	
Project Manager Mike Skromyda		Report CC	
Company/Address Tronex LLC			
P.O. Box 55			
Henderson, NY 89009-7000			
Phone # 702-651-2228		FAX #	
Sampler's Signature Michael Skromyda		Sampler's Printed Name Michael Skromyda	
FOR OFFICE USE ONLY		LAB ID	
CLIENT SAMPLE ID		MATRIX	
SAMPLING DATE		TIME	
NUMBER OF CONTAINERS			
<p>ANALYSIS REQUESTED (Include Method Number and Container Preservative)</p> <p>GC/MS VOAs <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> CLP GC/MS SVoAs <input type="checkbox"/> CLP <input type="checkbox"/> 8270 <input type="checkbox"/> 625 <input type="checkbox"/> CLP GC VOAs <input type="checkbox"/> 8021 <input type="checkbox"/> 601/602 PESTICIDES <input type="checkbox"/> 8081 <input type="checkbox"/> 608 <input type="checkbox"/> CLP PCBs <input type="checkbox"/> 8082 <input type="checkbox"/> 608 <input type="checkbox"/> CLP METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) TCLP Metals TCLP VOC DRO /ORO</p>			
<p>PRESERVATIVE</p> <p>Preservative Key 0. NONE 1. HCL 2. HNO₃ 3. H₂SO₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO₄ 8. Other ICE</p>			
<p>REMARKS/ALTERNATE DESCRIPTION</p>			
SPECIAL INSTRUCTIONS/COMMENTS Metals		INVOICE INFORMATION	
<p>See OAPP <input type="checkbox"/></p> <p>SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____</p>		<p>REPORT REQUIREMENTS</p> <p>I. Results Only _____ II. Results + OC Summaries (LCS, DUP, MSMSD as required) _____ III. Results + OC and Calibration Summaries _____ IV. Data Validation Report with Raw Data _____ V. Specialized Forms / Custom Report _____</p> <p>Edata Yes _____ No _____</p>	
<p>RECEIVED BY</p> <p>RELINQUISHED BY</p>		<p>RECEIVED BY</p> <p>RELINQUISHED BY</p>	
<p>Signature Michael Skromyda</p> <p>Printed Name Michael Skromyda</p> <p>Firm Tronex LLC</p> <p>Date/Time 02/26/08 9:45</p>		<p>Signature</p> <p>Printed Name</p> <p>Firm</p> <p>Date/Time</p>	
<p>RECEIVED BY</p> <p>RELINQUISHED BY</p>		<p>RECEIVED BY</p> <p>RELINQUISHED BY</p>	
<p>Signature</p> <p>Printed Name</p> <p>Firm</p> <p>Date/Time</p>		<p>Signature</p> <p>Printed Name</p> <p>Firm</p> <p>Date/Time</p>	

Cooler Receipt And Preservation Check Form

Project/Client EWSR Submission Number R2844659

Cooler received on 6/25/08 by: AHJ 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 but relying on sked, DO sample name/date/time
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: 30

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: 6/25/08 1017

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 6/25/08

Cooler Breakdown: Date: 6/26/08 by: AHJ

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	*	*						

Yes = All samples OK

No = Samples were preserved at lab as listed

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

PM OK to Adjust: _____

Bottle lot numbers: 033108-3

Other Comments: _____

PC Secondary Review: JMS 7/1/08

*significant air bubbles are greater than 5-6 mm

Chain of Custody

Submission: R2844659 **Client:** ENSR International

Lab ID: 1112220 **Matrix:** SOIL

Received into CAS-Rochester Custody: 6/25/2008

Container: 11122201

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 9:47	ahentsch	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
07/01/08 15:53	vkane	Metals	Cooler 3	Analysis	<input type="checkbox"/>

Container: 11122202

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 9:47	ahentsch	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
07/01/08 16:13	vkane	Metals	Cooler 3	Storage	<input type="checkbox"/>

Container: 11122203

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 12:04	vkane	Metals	Analyst	Storage	<input type="checkbox"/>
07/03/08 12:02	karnold	GC/MS Volatiles	Cooler 1 - S08	Analysis	<input type="checkbox"/>

Container: 11122204

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 12:06	vkane	Metals	Cooler 3	Storage	<input type="checkbox"/>
07/02/08 12:19	dkraftsc	Metals	Cooler 3	Analysis	<input type="checkbox"/>
07/02/08 12:23	dkraftsc	Metals	Cooler 3	Storage	<input type="checkbox"/>
07/02/08 13:28	vkane	Metals	Cooler 3	Analysis	<input type="checkbox"/>
07/02/08 13:37	vkane	Metals	Ambient 1	Storage	<input type="checkbox"/>

Chain of Custody

Submission: R2844659 **Client:** ENSR International

Lab ID: 1112221 **Matrix:** SOIL

Received into CAS-Rochester Custody: 6/25/2008

Container: 11122211

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 9:47	ahentsch	Sample Management	Cooler 3	Storage	<input type="checkbox"/>
06/27/08 7:40	dmurphy	Organic Extractions	Analyst	Analysis	<input type="checkbox"/>
06/27/08 14:37	dmurphy	Organic Extractions	Cooler 3	Storage	<input type="checkbox"/>

Container: 11122212

Date of Custody	User	Dept	Storage Location	Purpose	Empty
06/26/08 9:47	ahentsch	Sample Management	Cooler 2	Storage	<input type="checkbox"/>
07/01/08 9:40	ewolfe	Wet Chemistry	Cooler 2	Analysis	<input type="checkbox"/>
07/01/08 13:48	ewolfe	Wet Chemistry	Cooler 2	Storage	<input type="checkbox"/>

VOLATILE ORGANICS

QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCLP

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1115243

ANALYTICAL RUN #: 163559

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.0		
BENZENE	20.0	102	70 - 130
2-BUTANONE (MEK)	20.0	94	50 - 150
CARBON TETRACHLORIDE	20.0	112	70 - 130
CHLOROBENZENE	20.0	101	70 - 130
CHLOROFORM	20.0	103	70 - 130
1,2-DICHLOROETHANE	20.0	108	70 - 130
1,1-DICHLOROETHENE	20.0	107	70 - 130
TETRACHLOROETHENE	20.0	95	70 - 130
TRICHLOROETHENE	20.0	101	70 - 130
VINYL CHLORIDE	20.0	116	70 - 130

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

METBLK

Lab Name: CAS/ROCH Contract: ENSR
Lab Code: 10145 Case No.: R8-44659 SAS No.: SDG No.: 001
Lab File ID: K8259.D Lab Sample ID: 1115242 1.0
Date Analyzed: 07/03/08 Time Analyzed: 12:25
GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N
Instrument ID: GCMS#5

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS	1115243 1.0	K8257.D	11:12
02	1115244 1.0	PB070708	K8261.D	13:39
03	001	1112220 10.0	K8263.D	14:52

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44659 SAS No.: SDG No.: 001
 Lab File ID: K6844.D BFB Injection Date: 03/17/08
 Instrument ID: GCMS#5 BFB Injection Time: 11:11
 GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.0
75	30.0 - 60.0% of mass 95	46.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.4
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120.0% of mass 95	64.6
175	5.0 - 9.0% of mass 174	4.1 (6.3)1
176	95.0 - 101.0% of mass 174	64.4 (99.6)1
177	5.0 - 9.0% of mass 176	4.7 (7.3)2

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

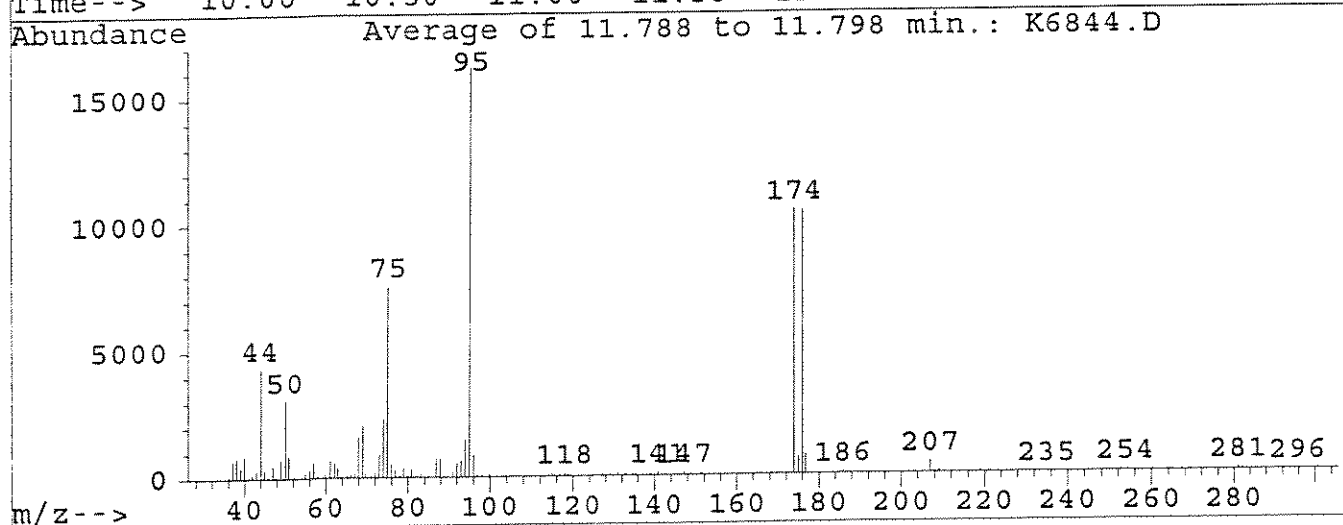
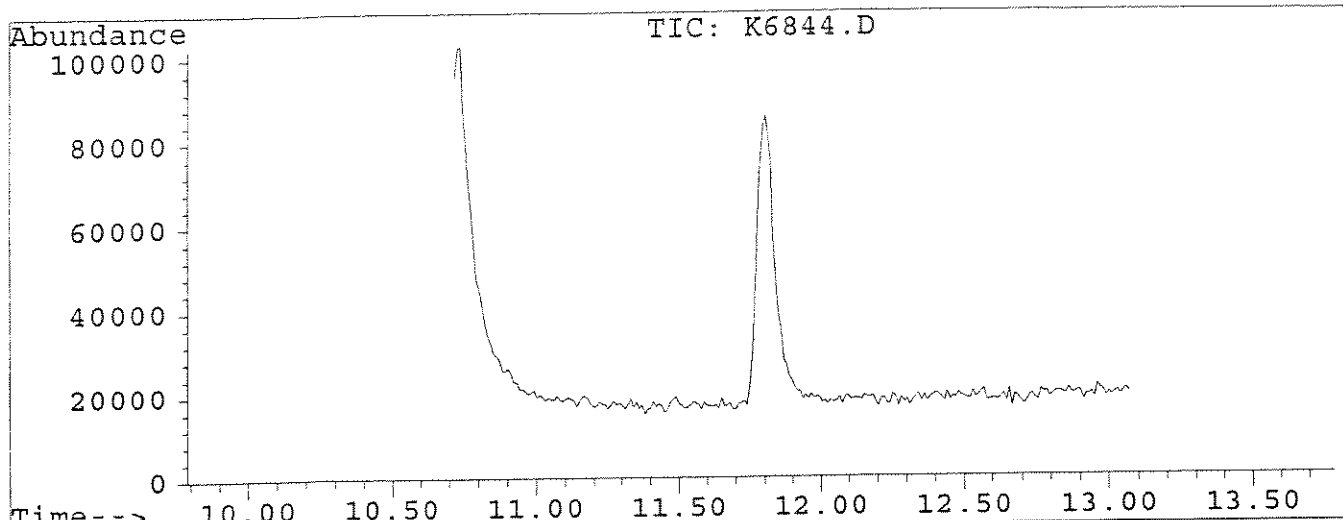
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0.5PPB ICAL STD	0.5PPB ICAL STD	K6847.D	03/17/08	13:28
02	1.0PPB ICAL STD	1.0PPB ICAL STD	K6848.D	03/17/08	14:04
03	2.0PPB ICAL STD	2.0PPB ICAL STD	K6849.D	03/17/08	14:41
04	5.0PPB ICAL STD	5.0PPB ICAL STD	K6850.D	03/17/08	15:17
05	10PPB ICAL STD	10PPB ICAL STD	K6851.D	03/17/08	15:53
06	50PPB ICAL STD	50PPB ICAL STD	K6852.D	03/17/08	16:30
07	100PPB ICAL STD	100PPB ICAL STD	K6853.D	03/17/08	17:06
08	150PPB ICAL STD	150PPB ICAL STD	K6854.D	03/17/08	17:43
09	200PPB ICAL STD	200PPB ICAL STD	K6855.D	03/17/08	18:19

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6844.D
 Acq On : 17 Mar 108 11:11 am
 Sample : TUNE CHECK
 Misc :

Vial: 5
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa



Peak Apex is scan: 109

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	3085	PASS
75	95	30	60	46.8	7588	PASS
95	95	100	100	100.0	16209	PASS
96	95	5	9	5.4	883	PASS
173	174	0	2	0.4	42	PASS
174	95	50	120	64.6	10479	PASS
175	174	5	9	6.3	664	PASS
176	174	95	101	99.6	10438	PASS
177	176	5	9	7.3	767	PASS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44659 SAS No.: SDG No.: 001
 Lab File ID: K8255.D BFB Injection Date: 07/03/08
 Instrument ID: GCMS#5 BFB Injection Time: 10:04
 GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	47.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	77.5
175	5.0 - 9.0% of mass 174	5.7 (7.3)1
176	95.0 - 101.0% of mass 174	74.6 (96.3)1
177	5.0 - 9.0% of mass 176	4.7 (6.2)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 CCV	CCV	K8256.D	07/03/08	10:35
02 LCS	1115243 1.0	K8257.D	07/03/08	11:12
03 METBLK	1115242 1.0	K8259.D	07/03/08	12:25
04 1115244 1.0	PB070708	K8261.D	07/03/08	13:39
05 001	1112220 10.0	K8263.D	07/03/08	14:52

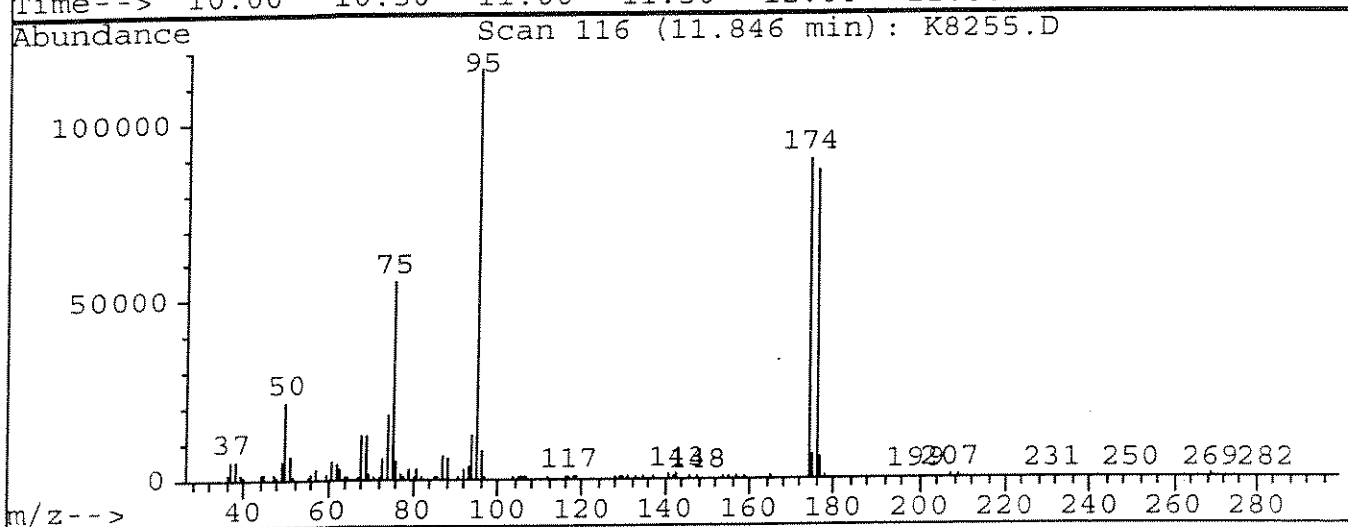
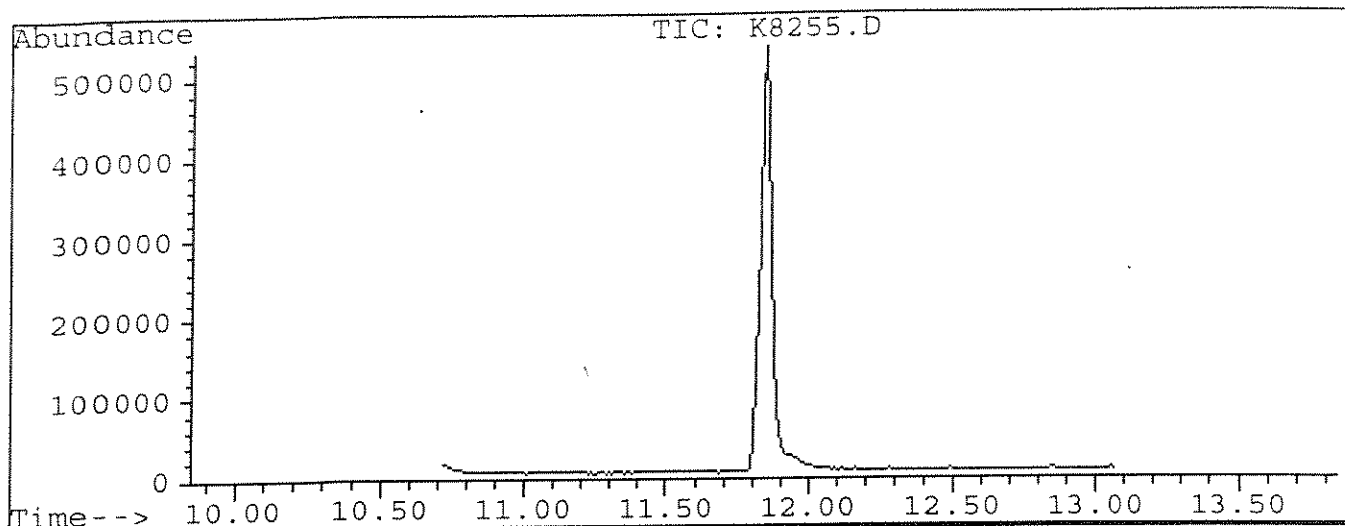
BFB

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8255.D
Acq On : 3 Jul 108 10:04 am
Sample : TUNE
Misc :

Vial: 28
Operator: K.Ruest
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa

K8-7/3/08



Peak Apex is scan: 116

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	21472	PASS
75	95	30	60	47.9	55360	PASS
95	95	100	100	100.0	115496	PASS
96	95	5	9	6.4	7423	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	77.5	89504	PASS
175	174	5	9	7.3	6553	PASS
176	174	95	101	96.3	86168	PASS
177	176	5	9	6.2	5377	PASS

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: ENSR
 Lab Code: 10145 Case No.: R8-44659 SAS No.: SDG No.: 001
 Lab File ID (Standard): K8256.D Date Analyzed: 07/03/08
 Instrument ID: GCMS#5 Time Analyzed: 10:35
 GC Column: DB624 ID: 0.25 (mm) Heated Purge (Y/N): N

	IS1		IS2		IS3	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	349810	10.90	635882	12.23	592455	17.73
UPPER LIMIT	699620	10.40	1271764	11.73	1184910	17.23
LOWER LIMIT	174905	11.40	317941	12.73	296228	18.23
EPA SAMPLE NO.						
01 LCS	356701	10.90	636659	12.23	599691	17.72
02 METBLK	343870	10.90	622133	12.23	580943	17.72
03 1115244 1.0	340849	10.90	636609	12.23	583098	17.72
04 001	338317	10.89	597787	12.23	567918	17.71

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenze
 IS4 = d4-1,4-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.: R8-44659 SAS No.: SDG No.: 001
 Lab File ID (Standard): K8256.D Date Analyzed: 07/03/08
 Instrument ID: GCMS#5 Time Analyzed: 10:35
 GC Column: DB624 ID: 0.25 (mm) Heated Purge (Y/N): N

		IS4			
		AREA #	RT #	AREA #	RT #
12 HOUR STD		226108	22.46		
UPPER LIMIT		452216	21.96		
LOWER LIMIT		113054	22.96		
EPA SAMPLE NO.					
01	LCS	224411	22.46		
02	METBLK	208732	22.45		
03	1115244 1.0	206437	22.46		
04	001	205580	22.45		

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

MDL Study Report

MDL Study ID: MDL247

analytical Method: 8260B
 extraction Method: EPA 5030B
 matrix: WATER
 instrument: 5971 - Inst. MS# 5

Column: MS

analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
1,1,2-Tetrachloroethane	1.00	1.06	0.0697	3.143	0.22	ug/L	7	106	Valid MDL Data
1,1-Trichloroethane (TCA)	1.00	1.05	0.0618	3.143	0.19	ug/L	6	105	Valid MDL Data
1,2,2-Tetrachloroethane	1.00	0.981	0.0467	3.143	0.15	ug/L	5	98	Valid MDL Data
1,2-Trichloroethane	1.00	0.981	0.0919	3.143	0.29	ug/L	9	98	Valid MDL Data
1-Dichloroethane	1.00	1.05	0.0412	3.143	0.13	ug/L	4	105	Valid MDL Data
1-Dichloroethene	1.00	1.02	0.107	3.143	0.34	ug/L	10	102	Valid MDL Data
1-Dichloropropene	1.00	1.00	0.0377	3.143	0.12	ug/L	4	100	Valid MDL Data
2,3-Trichlorobenzene	1.00	0.877	0.212	3.143	0.67	ug/L	24	88	Valid MDL Data
2,3-Trichloropropane	1.00	1.08	0.159	3.143	0.50	ug/L	15	108	Valid MDL Data
2,4-Trichlorobenzene	1.00	3.12	0.0959	3.143	0.30	ug/L	3	312	Valid MDL Data
2,4-Trimethylbenzene	2.00	1.85	0.0936	3.143	0.29	ug/L	5	93	Valid MDL Data
2-Dibromo-3-chloropropane (DBCP)	1.00	0.957	0.237	3.143	0.75	ug/L	25	96	Valid MDL Data
2-Dibromoethane (EDB)	1.00	1.03	0.0718	3.143	0.23	ug/L	7	103	Valid MDL Data
2-Dichloro-1,1,2-trifluoroethane (C)	1.00	0.944	0.0896	3.143	0.28	ug/L	9	94	Valid MDL Data
2-Dichlorobenzene	1.00	0.990	0.0802	3.143	0.25	ug/L	8	99	Valid MDL Data
2-Dichloroethane (EDC)	1.00	0.993	0.0547	3.143	0.17	ug/L	6	99	Valid MDL Data
2-Dichloropropane	1.00	1.07	0.0463	3.143	0.15	ug/L	4	107	Valid MDL Data
3,5-Trimethylbenzene	1.00	0.976	0.0591	3.143	0.19	ug/L	6	98	Valid MDL Data
3-Dichlorobenzene	1.00	1.06	0.0358	3.143	0.11	ug/L	3	106	Valid MDL Data
3-Dichloropropane	1.00	1.02	0.0360	3.143	0.11	ug/L	4	102	Valid MDL Data
4-Dichlorobenzene	1.00	1.09	0.0761	3.143	0.24	ug/L	7	109	Valid MDL Data
4-Dioxane	20.0	39.6	5.29	3.143	17	ug/L	13	198	Valid MDL Data
2-Dichloro-1,1,1-trifluoroethane (C)	1.00	0.976	0.0725	3.143	0.23	ug/L	7	98	Valid MDL Data
2-Dichloropropane	1.00	0.979	0.0840	3.143	0.26	ug/L	9	98	Valid MDL Data
-Butanone (MEK)	2.00	1.76	0.311	3.143	0.98	ug/L	18	88	Valid MDL Data
-Chloro-1,3-butadiene	2.00	1.73	0.181	3.143	0.57	ug/L	10	86	Valid MDL Data
-Chloroethyl Vinyl Ether	2.00	1.42	0.202	3.143	0.63	ug/L	14	71	Valid MDL Data
-Chlorotoluene	1.00	1.04	0.0811	3.143	0.25	ug/L	8	104	Valid MDL Data
-Hexanone	2.00	1.76	0.244	3.143	0.77	ug/L	14	88	Valid MDL Data
-Nitropropane	2.00	1.58	0.262	3.143	0.82	ug/L	17	79	Valid MDL Data
-Propanol	20.0	20.1	2.54	3.143	8.0	ug/L	13	100	Valid MDL Data

QA/QC Approval:

R. A. King

Supervisor Approval:

Printed: 10/15/2007 14:14:41

\\stealth\Crystal\MDL-Study.rpt

MDL Study Report

MDL Study ID: MDL247

Analytical Method: 8260B
 Extraction Method: EPA 5030B
 Matrix: WATER
 Instrument: 5971 - Inst. MS #5

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
-Chlorotoluene	1.00	1.00	0.0496	3.143	0.16	ug/L	5	100	Valid MDL Data
-Isopropyltoluene	1.00	0.899	0.0736	3.143	0.23	ug/L	8	90	Valid MDL Data
-Methyl-2-pentanone (MIBK)	2.00	1.86	0.129	3.143	0.41	ug/L	7	93	Valid MDL Data
Acetone	2.00	2.87	0.471	3.143	1.5	ug/L	16	144	Valid MDL Data
Acetonitrile	5.00	4.91	0.463	3.143	1.5	ug/L	9	98	Valid MDL Data
Acrofenin	10.0	12.0	1.63	3.143	5.1	ug/L	14	120	Valid MDL Data
Acrylonitrile	5.00	5.19	0.369	3.143	1.2	ug/L	7	104	Valid MDL Data
Allyl Chloride	1.00	1.02	0.0700	3.143	0.22	ug/L	7	102	Valid MDL Data
Benzene	1.00	1.06	0.0547	3.143	0.17	ug/L	5	106	Valid MDL Data
Bromobenzene	2.00	2.18	0.0877	3.143	0.28	ug/L	4	109	Valid MDL Data
Bromochloromethane	1.00	0.979	0.111	3.143	0.35	ug/L	11	98	Valid MDL Data
Bromodichloromethane	1.00	0.991	0.0687	3.143	0.22	ug/L	7	99	Valid MDL Data
Bromoform	1.00	0.776	0.187	3.143	0.59	ug/L	24	78	Valid MDL Data
Bromomethane	1.00	1.25	0.123	3.143	0.39	ug/L	10	125	Valid MDL Data
Carbon Disulfide	2.00	1.91	0.118	3.143	0.37	ug/L	6	96	Valid MDL Data
Carbon Tetrachloride	1.00	0.956	0.106	3.143	0.33	ug/L	11	96	Valid MDL Data
Chlorobenzene	2.00	2.03	0.0944	3.143	0.30	ug/L	5	101	Valid MDL Data
Chloroethane	1.00	0.986	0.0741	3.143	0.23	ug/L	8	99	Valid MDL Data
Chloroform	1.00	1.00	0.0631	3.143	0.20	ug/L	6	100	Valid MDL Data
Chloromethane	1.00	1.07	0.0811	3.143	0.25	ug/L	8	107	Valid MDL Data
cis-1,2-Dichloroethene	1.00	1.00	0.0778	3.143	0.24	ug/L	8	100	Valid MDL Data
cis-1,3-Dichloropropene	1.00	0.993	0.0640	3.143	0.20	ug/L	6	99	Valid MDL Data
Cyclohexane	1.00	0.990	0.0374	3.143	0.12	ug/L	4	99	Valid MDL Data
Cyclohexanone	20.0	21.8	1.68	3.143	5.3	ug/L	8	109	Valid MDL Data
Dibromochloromethane	1.00	0.946	0.0872	3.143	0.27	ug/L	9	95	Valid MDL Data
Dibromomethane	1.00	1.08	0.0820	3.143	0.26	ug/L	8	108	Valid MDL Data
Dichlorodifluoromethane	1.00	0.990	0.124	3.143	0.39	ug/L	13	99	Valid MDL Data
Dichlorofluoromethane (CFC 21)	1.00	1.08	0.0786	3.143	0.25	ug/L	7	108	Valid MDL Data
Diethyl Ether	1.00	1.06	0.0704	3.143	0.22	ug/L	7	106	Valid MDL Data
Ethyl Methacrylate	1.00	1.03	0.189	3.143	0.59	ug/L	18	103	Valid MDL Data
Ethylbenzene	1.00	0.970	0.0436	3.143	0.14	ug/L	4	97	Valid MDL Data

MDL FOR ACROFENIN
 4/2/02

Supervisor Approval: _____

Supervisor Approval: _____

MDL Study Report

MDL Study ID: MDL247

Analytical Method: 8260B
 Extraction Method: EPA 5030B
 Matrix: WATER
 Instrument: 5971 - Inst. MS #5

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
Hexachlorobutadiene	1.00	0.986	0.120	3.143	0.38	ug/L	12	99	Valid MDL Data
Iodomethane (Methyl Iodide)	1.00	1.50	0.0640	3.143	0.20	ug/L	4	150	Valid MDL Data
Isobutyl Alcohol	20.0	16.4	3.09	3.143	9.7	ug/L	19	82	Valid MDL Data
Isopropylbenzene	1.00	0.983	0.0390	3.143	0.12	ug/L	4	98	Valid MDL Data
m,p-Xylenes	2.00	1.95	0.0713	3.143	0.22	ug/L	4	97	Valid MDL Data
Methacrylonitrile	1.00	0.809	0.267	3.143	0.84	ug/L	33	81	Valid MDL Data
Methyl Acetate	1.00	1.31	0.0970	3.143	0.30	ug/L	7	131	Valid MDL Data
Methyl Methacrylate	1.00	0.737	0.0856	3.143	0.27	ug/L	12	74	Valid MDL Data
Methyl tert-Butyl Ether	1.00	1.05	0.0443	3.143	0.14	ug/L	4	105	Valid MDL Data
Methylcyclohexane	1.00	0.926	0.0883	3.143	0.28	ug/L	10	93	Valid MDL Data
Methylene Chloride	1.00	1.12	0.0637	3.143	0.20	ug/L	6	112	Valid MDL Data
Naphthalene	1.00	4.10	0.0781	3.143	0.25	ug/L	2	410	Valid MDL Data
n-Butylbenzene	1.00	0.806	0.101	3.143	0.32	ug/L	13	81	Valid MDL Data
n-Heptane	1.00	0.753	0.211	3.143	0.66	ug/L	28	75	Valid MDL Data
n-Propylbenzene	1.00	0.973	0.0442	3.143	0.14	ug/L	5	97	Valid MDL Data
n-Xylene	1.00	1.05	0.0774	3.143	0.24	ug/L	7	105	Valid MDL Data
Propionitrile	5.00	4.52	0.552	3.143	1.7	ug/L	12	90	Valid MDL Data
sec-Butylbenzene	1.00	0.966	0.0519	3.143	0.16	ug/L	5	97	Valid MDL Data
Styrene	1.00	0.974	0.0351	3.143	0.11	ug/L	4	97	Valid MDL Data
tert-Butyl Alcohol	20.0	19.4	1.24	3.143	3.9	ug/L	6	97	Valid MDL Data
tert-Butylbenzene	1.00	0.976	0.0746	3.143	0.23	ug/L	8	98	Valid MDL Data
Tetrachloroethene (PCE)	1.00	1.04	0.0509	3.143	0.16	ug/L	5	104	Valid MDL Data
Tetrahydrofuran	1.00	1.15	0.165	3.143	0.52	ug/L	14	115	Valid MDL Data
Toluene	1.00	1.04	0.0344	3.143	0.11	ug/L	3	104	Valid MDL Data
trans-1,2-Dichloroethene	1.00	1.02	0.0691	3.143	0.22	ug/L	7	102	Valid MDL Data
trans-1,3-Dichloropropene	1.00	0.996	0.0616	3.143	0.19	ug/L	6	100	Valid MDL Data
trans-1,4-Dichloro-2-butene	1.00	0.981	0.182	3.143	0.57	ug/L	19	98	Valid MDL Data
Trichloroethene (TCE)	1.00	1.08	0.0865	3.143	0.27	ug/L	8	108	Valid MDL Data
Trichlorofluoromethane	1.00	1.00	0.0839	3.143	0.26	ug/L	8	100	Valid MDL Data
Trichlorotrifluoroethane	1.00	0.893	0.200	3.143	0.63	ug/L	22	89	Valid MDL Data
Vinyl Acetate	2.00	1.53	0.217	3.143	0.68	ug/L	14	76	Valid MDL Data

Supervisor Approval: _____

Supervisor Approval: _____

MDL Study Report

Analytical Method: 8260B
 Extraction Method: EPA 5030B
 Matrix: WATER
 Instrument: 5971 - Inst: MS#S
 Column: MS
 MDL Study ID: MDL247

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
Vinyl Chloride	1.00	1.06	0.0943	3.143	0.30	ug/L	9	106	Valid MDL Data

00025

Supervisor Approval: _____ QA/QC Approval: _____

VOLATILE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/18/08

ENSR International
Project Reference: NEW - TAILINGS
Client Sample ID : 001

Date Sampled : 06/24/08 Order #: 1112220 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/08 Submission #: R2844659 Analytical Run 163559

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	10.00		
BENZENE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	50 U	UG/L
VINYL CHLORIDE	5.0	50 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(50 - 135 %)	103	%
TOLUENE-D8	(75 - 128 %)	106	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	101	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8263.D
 Acq On : 3 Jul 108 2:52 pm
 Sample : 1112220 10.0
 Misc : ENSR R28-44659 8260B.TCLP
 Quant Time: Jul 3 15:23 19108

Vial: 6
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	10.89	168	338317	50.00	ppb	0.08
41) 1,4-Difluorobenzene	12.23	114	597787	50.00	ppb	0.09
69) d5-Chlorobenze	17.71	117	567918	50.00	ppb	0.10
84) d4-1,4-Dichlorobenzene	22.45	152	205580	50.00	ppb	0.10
						%Recovery
System Monitoring Compounds						
42) surr4,Dibrflmethane	10.92	113	213592	50.56	ppb	101.12%
48) surr1,1,2-Diclethane	11.53	65	179362	47.65	ppb	95.30%
67) surr3,Toluene-d8	14.92	98	645128	53.12	ppb	106.24%
68) surr2,bfb	20.04	95	262277	51.52	ppb	103.05%
						Qvalue
Target Compounds						
15) Acetone	7.21	43	4423	4.61	ppb	# 70 ^{WT}
16) 2-propanol	7.37	45	598	3.40	ppb	# 1
18) Carbon Disulfide	7.64	76	5086	0.40	ppb	97 ^{WT}
38) Tetrahydrofuran	10.66	42	561	0.48	ppb	# 65
71) 2-Hexanone	16.19	43	1103	0.34	ppb	# 38

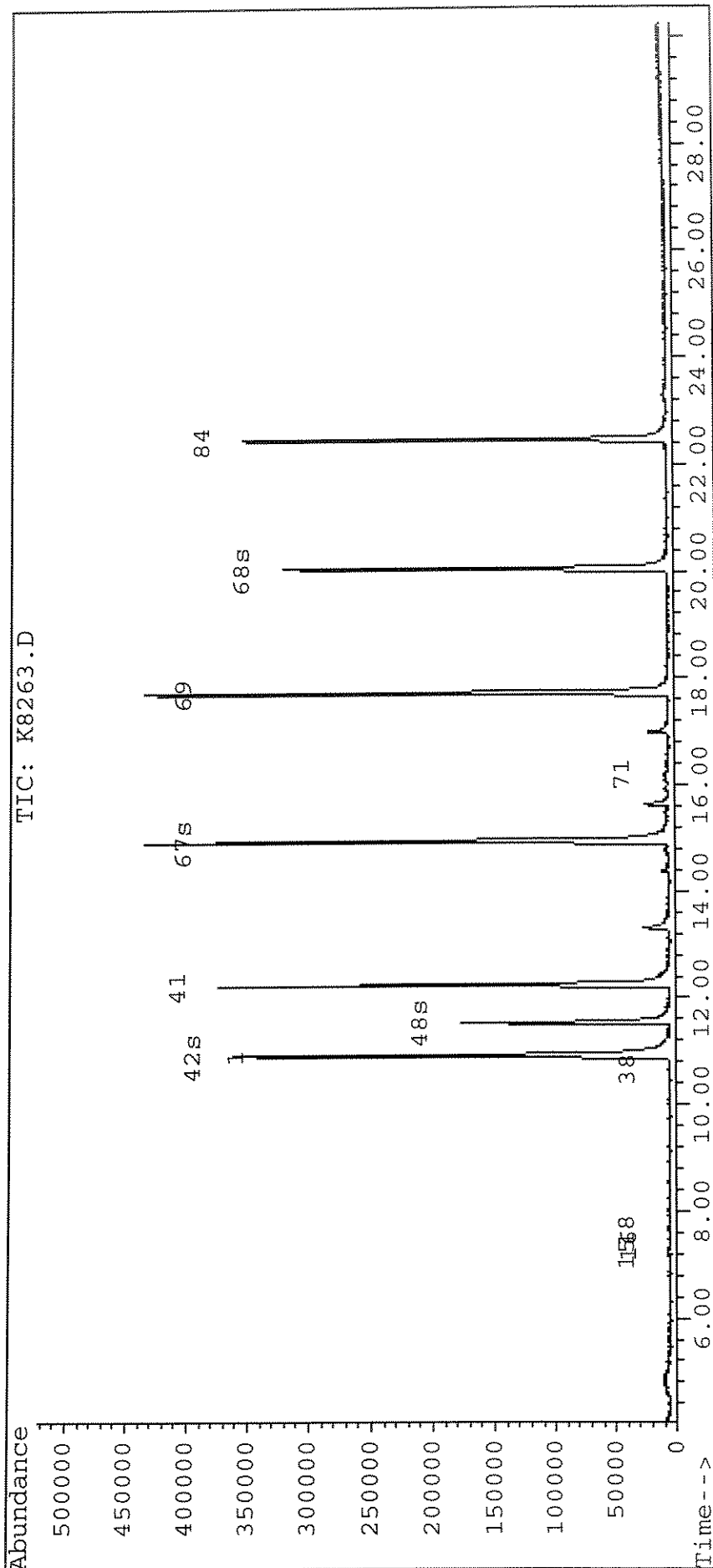
KR 7/7/08

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

Quantitation Report

Data File : J:\ACQDATA\MSVOA5\DATA\070308\K8263.D Vial: 6
Acq On : 3 Jul 108 2:52 pm Operator: K.Ruest
Sample : 1112220 10.0 Inst : 5971 - In
Misc : ENSR R28-44659 8260B.TCLP Multiplr: 1.00
Quant Time: Jul 3 15:23 19108

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa
Last Update : Wed Mar 26 15:06:45 2008
Response via : Multiple Level Calibration



VOLATILE ORGANICS
STANDARDS DATA

Initial Calibration - Summary Report

3/20/08

Calibration ID:	CAL741	<i>8260 Waters / MS#5</i>	Instrument ID:	5971 - In
Method ID:	MJ118		Column Name:	MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc 1/2 Low pt.
Dichlorodifluoromethane	TRG	Linear		0.475			.99	0.9989	OK	0.08
Chloromethane	TRG	AverageRF	0.100	0.663	15	10.3			OK	
Vinyl Chloride	TRG	AverageRF		0.543	15	12.5			OK	
Bromomethane	TRG	AverageRF		0.494	15	3.2			OK	
Chloroethane	TRG	AverageRF		0.404	15	7.4			OK	
Dichlorofluoromethane (CFC 21)	TRG	AverageRF		1.198	15	14.5			OK	
Trichlorofluoromethane	TRG	AverageRF		0.747	15	7.2			OK	
Diethyl Ether	TRG	AverageRF		0.435	15	10.1			OK	
1,2-Dichloro-1,1,2-trifluoroethane (CF	TRG	AverageRF		0.252	15	8.6			OK	
Acrolein	TRG	AverageRF		0.084	15	12.5			OK	
Trichlorotrifluoroethane	TRG	AverageRF		0.482	15	7.9			OK	
2,2-Dichloro-1,1,1-trifluoroethane (CF	TRG	AverageRF		0.505	15	10.2			OK	
1,1-Dichloroethene	MS	AverageRF		0.504	15	5.2			OK	
Acetone	TRG	AverageRF		0.142	15	9.2			OK	
2-Propanol	TRG	AverageRF		0.026	15	10.9			OK	
Iodomethane (Methyl Iodide)	TRG	Linear		0.647			.99	0.9972	OK	4.38*
Carbon Disulfide	TRG	AverageRF		1.865	15	6.3			OK	
Acetonitrile	TRG	AverageRF		0.070	15	11.7			OK	
Allyl Chloride	TRG	AverageRF		0.887	15	7.6			OK	
Methyl Acetate	TRG	AverageRF		0.608	15	9.0			OK	
Methylene Chloride	TRG	AverageRF		0.641	15	9.7			OK	
tert-Butyl Alcohol	TRG	AverageRF		0.044	15	8.0			OK	
Methyl tert-Butyl Ether	TRG	AverageRF		1.575	15	3.9			OK	
Acrylonitrile	TRG	AverageRF		0.215	15	8.0			OK	
trans-1,2-Dichloroethene	TRG	AverageRF		0.613	15	8.7			OK	
Diisopropyl Ether	TRG	AverageRF		2.246	15	9.3			OK	
1,1-Dichloroethane	TRG	AverageRF	0.100	1.052	15	5.4			OK	
Vinyl Acetate	TRG	Linear		0.081			.99	0.9979	OK	0.64
2-Chloro-1,3-butadiene	TRG	AverageRF		0.808	15	9.5			OK	
ETBE	TRG	AverageRF		1.969	15	4.8			OK	
2,2-Dichloropropane	TRG	AverageRF		0.836	15	4.5			OK	
2-Butanone (MEK)	TRG	AverageRF		0.299	15	9.8			OK	
cis-1,2-Dichloroethene	TRG	AverageRF		0.649	15	7.4			OK	
Propionitrile	TRG	AverageRF		0.073	15	14.5			OK	
Methacrylonitrile	TRG	AverageRF		0.243	15	9.3			OK	
Bromochloromethane	TRG	AverageRF		0.371	15	8.0			OK	
Tetrahydrofuran	TRG	AverageRF		0.174	15	4.1			OK	
Chloroform	TRG	AverageRF		1.041	15	3.1			OK	
1,1,1-Trichloroethane (TCA)	TRG	AverageRF		0.796	15	3.3			OK	
Dibromofluoromethane	SURR	AverageRF		0.353	15	3.0			NA	
Cyclohexane	TRG	AverageRF		0.574	15	3.7			OK	
Carbon Tetrachloride	TRG	AverageRF		0.348	15	14.7			OK	
1,1-Dichloropropene	TRG	AverageRF		0.480	15	7.2			OK	
Isobutyl Alcohol	TRG	AverageRF		0.013	15	9.0			OK	
Benzene	MS	AverageRF		1.335	15	4.3			OK	
1,2-Dichloroethane-d4	SURR	AverageRF		0.315	15	2.1			NA	
1,2-Dichloroethane (EDC)	TRG	AverageRF		0.408	15	5.3			OK	
TAME	TRG	AverageRF		1.057	15	7.6			OK	
n-Heptane	TRG	AverageRF		0.331	15	10.0			*	
Trichloroethene (TCE)	MS	AverageRF		0.342	15	9.8			OK	
Methylcyclohexane	TRG	AverageRF		0.421	15	5.9			OK	

000031

Initial Calibration - Summary Report

Calibration ID: CAL741	Instrument ID: 5971 - In
Method ID: MJ118	Column Name: MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc % Low pt.
1,2-Dichloropropane	TRG	AverageRF		0.374	15	7.4			OK	
Methyl Methacrylate	TRG	Linear		0.252			.99	1.0000	*	2.03 *
1,4-Dioxane	TRG	AverageRF		0.002	15	12.5			OK	
Dibromomethane	TRG	AverageRF		0.258	15	4.7			OK	
Bromodichloromethane	TRG	AverageRF		0.450	15	5.8			OK	
2-Nitropropane	TRG	AverageRF		0.073	15	9.6			OK	
2-Chloroethyl Vinyl Ether	TRG	AverageRF		0.072	15	76.0*			OK	NO DATA @ 1/2
cis-1,3-Dichloropropene	TRG	AverageRF		0.660	15	7.1			OK	
4-Methyl-2-pentanone (MIBK)	TRG	AverageRF		0.374	15	13.1			OK	
Toluene	MS	AverageRF		1.381	15	3.4			OK	
trans-1,3-Dichloropropene	TRG	AverageRF		0.568	15	9.2			OK	
Ethyl Methacrylate	TRG	Linear		0.464			.99	0.9998	*	1.21
1,1,2-Trichloroethane	TRG	AverageRF		0.294	15	6.5			OK	
Toluene-d8	SURR	AverageRF		1.016	15	11.7			NA	
4-Bromofluorobenzene	SURR	AverageRF		0.426	15	11.6			NA	
Tetrachloroethene (PCE)	TRG	AverageRF		0.361	15	7.6			OK	
2-Hexanone	TRG	AverageRF		0.287	15	5.8			OK	
1,3-Dichloropropane	TRG	AverageRF		0.658	15	5.9			OK	
Dibromochloromethane	TRG	AverageRF		0.444	15	8.3			OK	
1,2-Dibromoethane (EDB)	TRG	AverageRF		0.401	15	10.4			OK	
Chlorobenzene	MS	AverageRF	0.300	1.020	15	3.4			OK	
1,1,1,2-Tetrachloroethane	TRG	AverageRF		0.386	15	5.6			OK	
Ethylbenzene	TRG	AverageRF		1.558	15	8.9			OK	
m,p-Xylenes	TRG	AverageRF		0.532	15	13.0			OK	
o-Xylene	TRG	AverageRF		0.539	15	10.8			OK	
Styrene	TRG	AverageRF		0.931	15	14.3			OK	
Bromoform	TRG	Linear	0.100	0.248			.99	0.9996	OK	0.32
Isopropylbenzene	TRG	AverageRF		1.330	15	10.3			OK	
Cyclohexanone	TRG	AverageRF		0.057	15	11.3			OK	
1,1,2,2-Tetrachloroethane	TRG	AverageRF	0.300	1.259	15	8.3			OK	
1,2,3-Trichloropropane	TRG	AverageRF		0.335	15	6.0			OK	
trans-1,4-Dichloro-2-butene	TRG	AverageRF		0.288	15	9.1			OK	
n-Propylbenzene	TRG	AverageRF		3.746	15	7.1			OK	
Bromobenzene	TRG	AverageRF		1.026	15	2.7			OK	
1,3,5-Trimethylbenzene	TRG	AverageRF		2.139	15	8.3			OK	
2-Chlorotoluene	TRG	AverageRF		2.674	15	5.4			OK	
4-Chlorotoluene	TRG	AverageRF		2.359	15	11.8			OK	
tert-Butylbenzene	TRG	AverageRF		2.052	15	4.2			OK	
1,2,4-Trimethylbenzene	TRG	AverageRF		1.996	15	10.1			OK	
sec-Butylbenzene	TRG	AverageRF		2.619	15	10.3			OK	
4-Isopropyltoluene	TRG	AverageRF		2.119	15	11.7			OK	
1,3-Dichlorobenzene	TRG	AverageRF		1.628	15	5.0			OK	
1,4-Dichlorobenzene	TRG	AverageRF		1.571	15	7.8			OK	
n-Butylbenzene	TRG	AverageRF		1.710	15	14.5			*	
1,2-Dichlorobenzene	TRG	AverageRF		1.545	15	9.7			OK	
1,2-Dibromo-3-chloropropane (DBCP)	TRG	AverageRF		0.212	15	8.4			OK	
1,2,4-Trichlorobenzene	TRG	Linear		0.579			.99	0.9997	OK	1.85 *
Hexachlorobutadiene	TRG	AverageRF		0.265	15	10.4			OK	
Naphthalene	TRG	AverageRF		1.480	15	7.9			OK	
1,2,3-Trichlorobenzene	TRG	AverageRF		0.580	15	9.3			OK	

Initial Calibration - Summary Report

Calibration ID: CAL741
Method ID: MJ118

Instrument ID: 5971 - In
Column Name: MS

Initial Calibration - Summary Report

Calibration ID: CAL741
Method ID: MJ118

Instrument ID: 5971 - In
Column Name: MS

SPCC and CCC Evaluations

Parameter Name	Type	SPCC Criteria	SPCC Result	CCC Criteria	CCC Result
Chloromethane	SPCC	0.100	0.663		
Vinyl Chloride	CCC			30	12.5
1,1-Dichloroethene	CCC			30	5.2
1,1-Dichloroethane	SPCC	0.100	1.052		
Chloroform	CCC			30	3.1
1,2-Dichloropropane	CCC			30	7.4
Toluene	CCC			30	3.4
Chlorobenzene	SPCC	0.300	1.020		
Ethylbenzene	CCC			30	8.9
Bromoform	SPCC	0.100	0.248		
1,1,2,2-Tetrachloroethane	SPCC	0.300	1.259		

Initial Calibration - Detailed Report

3/20/08

Calibration ID: CAL741
Method ID: MJ118

8260B. WATERS

Instrument ID: 5971 - In
Column Name: MS
Calibration Fit: AverageRF

MS#5

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
5994	J:\ACQUDATA\MSVOA5\DATA\031708\K6847.D	03/17/2008 13:28	03/18/2008 09:01	03/18/2008 16:21
5995	J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D	03/17/2008 14:04	03/18/2008 10:25	03/18/2008 16:21
5996	J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D	03/17/2008 14:41	03/18/2008 10:43	03/18/2008 16:21
5997	J:\ACQUDATA\MSVOA5\DATA\031708\K6850.D	03/17/2008 15:17	03/18/2008 10:46	03/18/2008 16:21
5998	J:\ACQUDATA\MSVOA5\DATA\031708\K6851.D	03/17/2008 15:53	03/18/2008 10:49	03/18/2008 16:21
5999	J:\ACQUDATA\MSVOA5\DATA\031708\K6852.D	03/17/2008 16:30	03/18/2008 08:46	03/18/2008 16:21
6000	J:\ACQUDATA\MSVOA5\DATA\031708\K6853.D	03/17/2008 17:06	03/18/2008 08:47	03/18/2008 16:21
6001	J:\ACQUDATA\MSVOA5\DATA\031708\K6854.D	03/17/2008 17:43	03/18/2008 11:29	03/18/2008 16:21
6002	J:\ACQUDATA\MSVOA5\DATA\031708\K6855.D	03/17/2008 18:19	03/18/2008 11:34	03/18/2008 16:21

Parameter Name	FileID								Mean RF	%RSD
	5994 6002	5995	5996	5997	5998	5999	6000	6001		
Dichlorodifluoromethane	0.509	0.416	0.391	0.343	0.533	0.553	0.521	0.534	0.475	16.7#
Chloromethane	0.648	0.774	0.583	0.556	0.701	0.680	0.679	0.682	0.663	10.3
Vinyl Chloride	0.472 0.577	0.429	0.480	0.530	0.607	0.615	0.588	0.592	0.543	12.5
Bromomethane	0.491	0.473	0.517	0.476	0.488	0.493	0.503	0.512	0.494	3.2
Chloroethane	0.399	0.404	0.402	0.336	0.431	0.425	0.413	0.421	0.404	7.4
Dichlorofluoromethane (CFC 21)	0.790 1.267	1.305	1.113	1.159	1.186	1.287	1.302	1.370	1.198	14.5
Trichlorofluoromethane	0.670 0.768	0.737	0.718	0.666	0.774	0.783	0.804	0.808	0.747	7.2
Diethyl Ether	0.424	0.392	0.385	0.390	0.505	0.462	0.457	0.467	0.435	10.1
1,2-Dichloro-1,1,2-trifluoroethane (	0.258 0.256	0.284	0.210	0.238	0.242	0.254	0.248	0.276	0.252	8.6
Acrolein	0.089	0.094	0.076	0.063	0.079	0.087	0.091	0.093	0.084	12.5
Trichlorotrifluoroethane	0.553 0.482	0.436	0.472	0.424	0.475	0.502	0.488	0.502	0.482	7.9
2,2-Dichloro-1,1,1-trifluoroethane (	0.475 0.535	0.549	0.407	0.463	0.491	0.509	0.536	0.575	0.505	10.2
1,1-Dichloroethene	0.517	0.469	0.484	0.469	0.517	0.516	0.528	0.535	0.504	5.2
Acetone	0.129			0.128	0.163	0.142	0.141	0.149	0.142	9.2
2-Propanol	0.027	0.021	0.027	0.022	0.027	0.027	0.028	0.029	0.026	10.9
Iodomethane (Methyl Iodide)			0.383	0.467	0.540	0.742	0.848	0.901	0.647	32.9#
Carbon Disulfide	1.941 1.919	1.711	1.873	1.741	1.725	1.871	1.960	2.045	1.865	6.3

Initial Calibration - Detailed Report

Calibration ID: CAL741
Method ID: MJ118

Instrument ID: 5971 - In
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	5994 6002	5995	5996	5997	5998	5999	6000	6001		
Acetonitrile	0.066	0.089	0.067	0.062	0.066	0.072	0.070	0.068	0.070	11.7
Allyl Chloride	0.845	0.949	0.974	0.754	0.918	0.892	0.892	0.876	0.887	7.6
Methyl Acetate	0.578	0.694	0.533	0.538	0.643	0.622	0.617	0.637	0.608	9.0
Methylene Chloride	0.796 0.611	0.601	0.604	0.597	0.664	0.633	0.623	0.639	0.641	9.7
tert-Butyl Alcohol	0.044	0.047	0.037	0.041	0.046	0.047	0.046	0.045	0.044	8.0
Methyl tert-Butyl Ether	1.527 1.540	1.494	1.630	1.492	1.640	1.635	1.611	1.609	1.575	3.9
Acrylonitrile	0.216	0.214	0.179	0.201	0.222	0.228	0.228	0.229	0.215	8.0
trans-1,2-Dichloroethene	0.618	0.657	0.590	0.493	0.656	0.628	0.619	0.641	0.613	8.7
Diisopropyl Ether	2.315	1.877	2.178	1.997	2.414	2.397	2.356	2.437	2.246	9.3
1,1-Dichloroethane	1.031	1.075	1.085	0.921	1.103	1.069	1.050	1.080	1.052	5.4
Vinyl Acetate	0.088		0.061	0.053	0.091	0.090	0.094	0.094	0.081	21.0#
2-Chloro-1,3-butadiene	0.837	0.675	0.776	0.830	0.726	0.847	0.870	0.905	0.808	9.5
ETBE	1.940	1.808	1.924	1.894	2.082	2.028	2.003	2.075	1.969	4.8
2,2-Dichloropropane	0.889 0.801	0.803	0.856	0.776	0.838	0.884	0.839	0.837	0.836	4.5
2-Butanone (MEK)	0.288			0.250	0.339	0.299	0.306	0.312	0.299	9.8
cis-1,2-Dichloroethene	0.713 0.668	0.581	0.600	0.585	0.659	0.682	0.671	0.681	0.649	7.4
Propionitrile	0.075	0.066	0.051	0.072	0.081	0.084	0.079	0.078	0.073	14.5
Methacrylonitrile	0.249		0.272	0.200	0.230	0.246	0.252	0.252	0.243	9.3
Bromochloromethane	0.375 0.374	0.302	0.392	0.347	0.401	0.380	0.380	0.384	0.371	8.0
Tetrahydrofuran	0.168		0.167	0.166	0.184	0.181	0.176	0.177	0.174	4.1
Chloroform	1.024	1.064	1.049	0.969	1.051	1.059	1.044	1.069	1.041	3.1
1,1,1-Trichloroethane (TCA)	0.801	0.796	0.795	0.739	0.809	0.799	0.796	0.831	0.796	3.3
Dibromofluoromethane	0.360			0.352	0.337	0.344	0.363	0.363	0.353	3.0
Cyclohexane	0.594	0.555	0.556	0.555	0.565	0.572	0.584	0.614	0.574	3.7

Initial Calibration - Detailed Report

Calibration ID: CAL741
Method ID: MJ118

Instrument ID: 5971 - In
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	5994 6002	5995	5996	5997	5998	5999	6000	6001		
Carbon Tetrachloride	0.376 0.390	0.243	0.342	0.286	0.348	0.372	0.383	0.391	0.348	14.7
1,1-Dichloropropene	0.478	0.405	0.510	0.459	0.495	0.508	0.492	0.495	0.480	7.2
Isobutyl Alcohol	0.013		0.015	0.012	0.012	0.014	0.013	0.013	0.013	9.0
Benzene	1.381 1.335	1.237	1.319	1.245	1.382	1.390	1.364	1.358	1.335	4.3
1,2-Dichloroethane-d4	0.308			0.316	0.322	0.306	0.317	0.320	0.315	2.1
1,2-Dichloroethane (EDC)	0.384 0.420	0.370	0.407	0.392	0.413	0.432	0.421	0.431	0.408	5.3
TAME	1.058	0.874	1.036	1.046	1.114	1.100	1.118	1.107	1.057	7.6
n-Heptane	0.359		0.305	0.271	0.324	0.361	0.353	0.341	0.331	10.0
Trichloroethene (TCE)	0.366 0.367	0.300	0.308	0.290	0.340	0.373	0.366	0.367	0.342	9.8
Methylcyclohexane	0.437	0.409	0.412	0.387	0.392	0.442	0.434	0.455	0.421	5.9
1,2-Dichloropropane	0.325 0.383	0.358	0.368	0.344	0.406	0.399	0.393	0.394	0.374	7.4
Methyl Methacrylate	0.284		0.215	0.176	0.248	0.278	0.282	0.283	0.252	16.7#
1,4-Dioxane	0.003		0.002	0.002	0.002	0.003	0.003	0.003	0.002	12.5
Dibromomethane	0.257	0.276	0.248	0.237	0.264	0.267	0.258	0.254	0.258	4.7
Bromodichloromethane	0.411 0.470	0.442	0.420	0.425	0.456	0.476	0.475	0.478	0.450	5.8
2-Nitropropane	0.074		0.077	0.058	0.076	0.077	0.074	0.076	0.073	9.6
2-Chloroethyl Vinyl Ether	0.014	0.141	0.142	0.115	0.082	0.043	0.022	0.019	0.072	76.0*
cis-1,3-Dichloropropene	0.691 0.659	0.656	0.619	0.559	0.718	0.690	0.670	0.675	0.660	7.1
4-Methyl-2-pentanone (MIBK)	0.399		0.291	0.325	0.364	0.415	0.411	0.412	0.374	13.1
Toluene	1.350 1.365	1.308	1.402	1.331	1.445	1.423	1.381	1.424	1.381	3.4
trans-1,3-Dichloropropene	0.545 0.590	0.474	0.527	0.524	0.622	0.616	0.604	0.608	0.568	9.2
Ethyl Methacrylate	0.513		0.382	0.315	0.472	0.531	0.519	0.518	0.464	18.0#
1,1,2-Trichloroethane	0.281	0.313	0.319	0.259	0.306	0.294	0.292	0.288	0.294	6.5
Toluene-d8	0.812			1.085	1.073	1.091	1.104	0.932	1.016	11.7

Initial Calibration - Detailed Report

Calibration ID: CAL741
Method ID: MJ118

Instrument ID: 5971 - In
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	5994 6002	5995	5996	5997	5998	5999	6000	6001		
4-Bromofluorobenzene				0.453	0.449	0.459	0.462	0.389	0.426	11.6
Tetrachloroethene (PCE)	0.342 0.316 0.375	0.327	0.357	0.343	0.373	0.393	0.375	0.393	0.361	7.6
2-Hexanone				0.267	0.269	0.293	0.292	0.311	0.287	5.8
1,3-Dichloropropane	0.293 0.638	0.602	0.671	0.608	0.712	0.693	0.666	0.670	0.658	5.9
Dibromochloromethane		0.383	0.427	0.396	0.476	0.468	0.463	0.476	0.444	8.3
1,2-Dibromoethane (EDB)	0.460 0.411	0.392	0.318	0.364	0.437	0.443	0.420	0.422	0.401	10.4
Chlorobenzene		1.003	0.979	0.963	1.052	1.044	1.031	1.058	1.020	3.4
1,1,1,2-Tetrachloroethane	1.032 0.391	0.359	0.368	0.358	0.393	0.416	0.397	0.405	0.386	5.6
Ethylbenzene		1.254	1.502	1.507	1.600	1.659	1.647	1.661	1.558	8.9
m,p-Xylenes	1.633 0.585	0.419	0.465	0.471	0.556	0.583	0.584	0.594	0.532	13.0
o-Xylene		0.433	0.553	0.470	0.534	0.577	0.574	0.601	0.539	10.8
Styrene	0.574 1.029	0.684	0.817	0.849	0.979	1.006	1.024	1.062	0.931	14.3
Bromoform		0.166	0.210	0.228	0.260	0.288	0.277	0.281	0.248	17.2#
Isopropylbenzene	0.274 1.050 1.434	1.236	1.284	1.248	1.373	1.449	1.435	1.461	1.330	10.3
Cyclohexanone		0.059	0.060	0.060	0.065	0.061	0.052	0.057	0.057	11.3
1,1,2,2-Tetrachloroethane	0.044 1.121	1.401	1.385	1.220	1.338	1.256	1.193	1.161	1.259	8.3
1,2,3-Trichloropropane		0.353	0.356	0.298	0.332	0.353	0.341	0.322	0.335	6.0
trans-1,4-Dichloro-2-butene	0.320 0.273	0.326	0.292	0.254	0.326	0.278	0.282	0.270	0.288	9.1
n-Propylbenzene		3.293	3.497	3.526	3.833	3.982	3.935	3.944	3.746	7.1
Bromobenzene	3.961 0.993	1.000	1.014	1.044	1.065	1.061	1.025	1.003	1.026	2.7
1,3,5-Trimethylbenzene		1.984	1.818	2.000	2.234	2.289	2.258	2.251	2.139	8.3
2-Chlorotoluene	2.274 2.720	2.481	2.674	2.418	2.794	2.794	2.754	2.756	2.674	5.4
4-Chlorotoluene		2.403	1.736	2.184	2.428	2.528	2.522	2.554	2.359	11.8
tert-Butylbenzene	2.512 2.110	2.017	2.003	1.872	2.083	2.122	2.081	2.125	2.052	4.2

Initial Calibration - Detailed Report

Calibration ID: CAL741
Method ID: MJ118

Instrument ID: 5971 - In
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	5994 6002	5995	5996	5997	5998	5999	6000	6001		
1,2,4-Trimethylbenzene	2.187	1.791	1.735	1.745	2.073	2.138	2.147	2.150	1.996	10.1
sec-Butylbenzene	2.854	2.087	2.461	2.440	2.695	2.798	2.780	2.837	2.619	10.3
4-Isopropyltoluene	2.359	1.855	1.776	1.876	2.114	2.298	2.335	2.339	2.119	11.7
1,3-Dichlorobenzene	1.669	1.523	1.600	1.489	1.694	1.702	1.671	1.673	1.628	5.0
1,4-Dichlorobenzene	1.652	1.439	1.515	1.349	1.625	1.670	1.646	1.670	1.571	7.8
n-Butylbenzene	1.873			1.227	1.664	1.792	1.841	1.861	1.710	14.5
1,2-Dichlorobenzene	1.601	1.215	1.460	1.521	1.669	1.645	1.633	1.619	1.545	9.7
1,2-Dibromo-3-chloropropane (DBC)	0.218		0.184	0.206	0.193	0.228	0.229	0.223	0.212	8.4
1,2,4-Trichlorobenzene	0.692	0.425	0.469	0.477	0.569	0.658	0.668	0.678	0.579	18.8#
Hexachlorobutadiene	0.283	0.254	0.230	0.220	0.292	0.282	0.275	0.285	0.265	10.4
Naphthalene	1.594	1.452	1.267	1.369	1.485	1.491	1.583	1.600	1.480	7.9
1,2,3-Trichlorobenzene	0.639	0.518	0.551	0.497	0.589	0.582	0.628	0.634	0.580	9.3

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

1 compound out of 101 failed Maximum %RSD criteria

Initial Calibration - Detailed Report

Calibration ID: CAL741
Method ID: MJ118

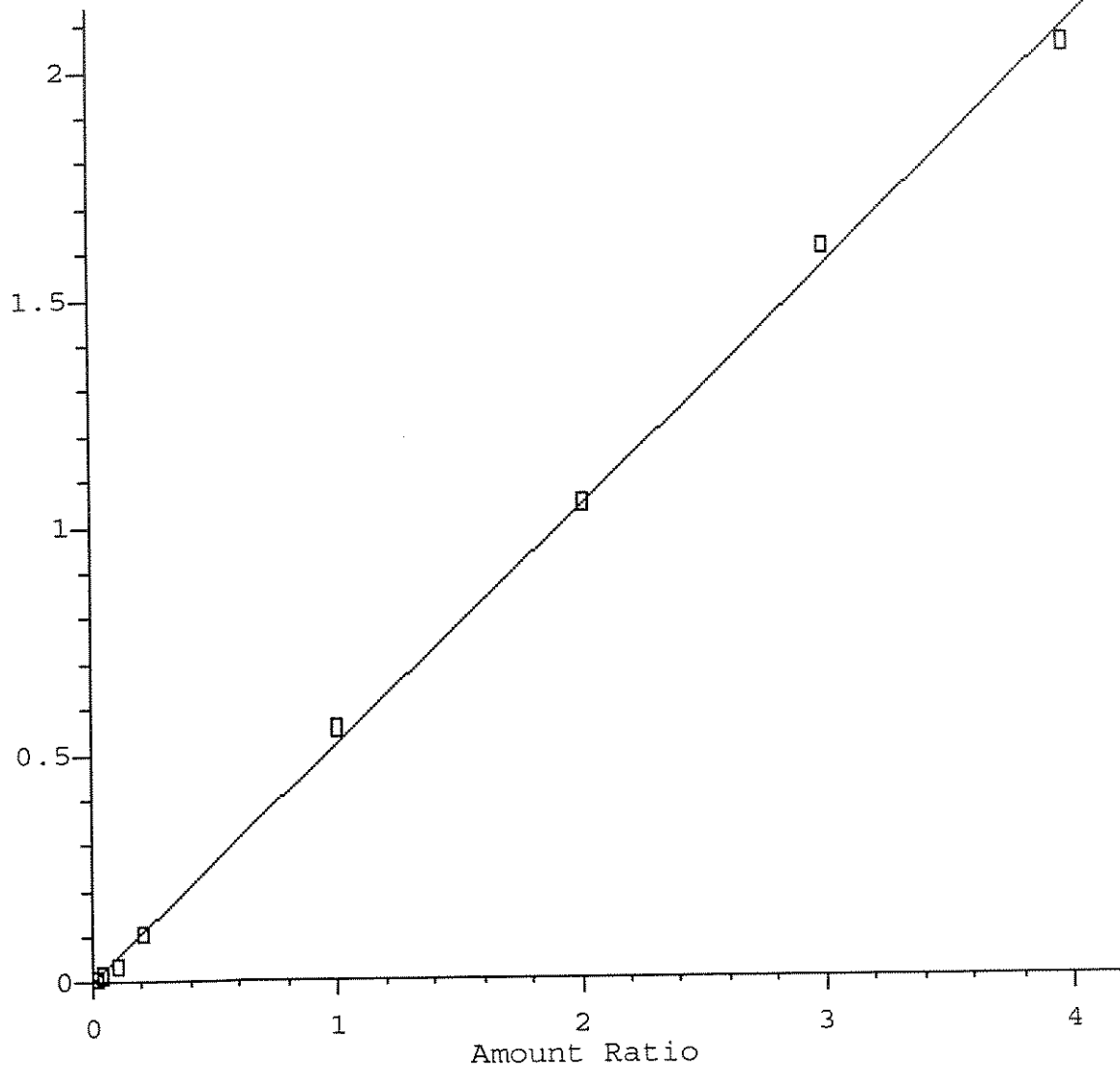
Instrument ID: 5971 - In
Column Name: MS
Calibration Fit: Linear

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
5994	J:\ACQU\DATA\MSVOA5\DATA\031708\K6847.D	03/17/2008 13:28	03/18/2008 09:01	03/18/2008 16:21
5995	J:\ACQU\DATA\MSVOA5\DATA\031708\K6848.D	03/17/2008 14:04	03/18/2008 10:25	03/18/2008 16:21
5996	J:\ACQU\DATA\MSVOA5\DATA\031708\K6849.D	03/17/2008 14:41	03/18/2008 10:43	03/18/2008 16:21
5997	J:\ACQU\DATA\MSVOA5\DATA\031708\K6850.D	03/17/2008 15:17	03/18/2008 10:46	03/18/2008 16:21
5998	J:\ACQU\DATA\MSVOA5\DATA\031708\K6851.D	03/17/2008 15:53	03/18/2008 10:49	03/18/2008 16:21
5999	J:\ACQU\DATA\MSVOA5\DATA\031708\K6852.D	03/17/2008 16:30	03/18/2008 08:46	03/18/2008 16:21
6000	J:\ACQU\DATA\MSVOA5\DATA\031708\K6853.D	03/17/2008 17:06	03/18/2008 08:47	03/18/2008 16:21
6001	J:\ACQU\DATA\MSVOA5\DATA\031708\K6854.D	03/17/2008 17:43	03/18/2008 11:29	03/18/2008 16:21
6002	J:\ACQU\DATA\MSVOA5\DATA\031708\K6855.D	03/17/2008 18:19	03/18/2008 11:34	03/18/2008 16:21

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
Dichlorodifluoromethane		0.518	0.003	0.9989	0.475
Iodomethane (Methyl Iodide)		0.905	-0.072	0.9972	0.647
Vinyl Acetate		0.091	0.000	0.9979	0.081
Methyl Methacrylate		0.286	-0.007	1.0000	0.252
Ethyl Methacrylate		0.518	-0.005	0.9998	0.464
Bromoform		0.277	0.000	0.9996	0.248
1,2,4-Trichlorobenzene		0.691	-0.021	0.9997	0.579

Dichlorodifluoromethane

Response Ratio

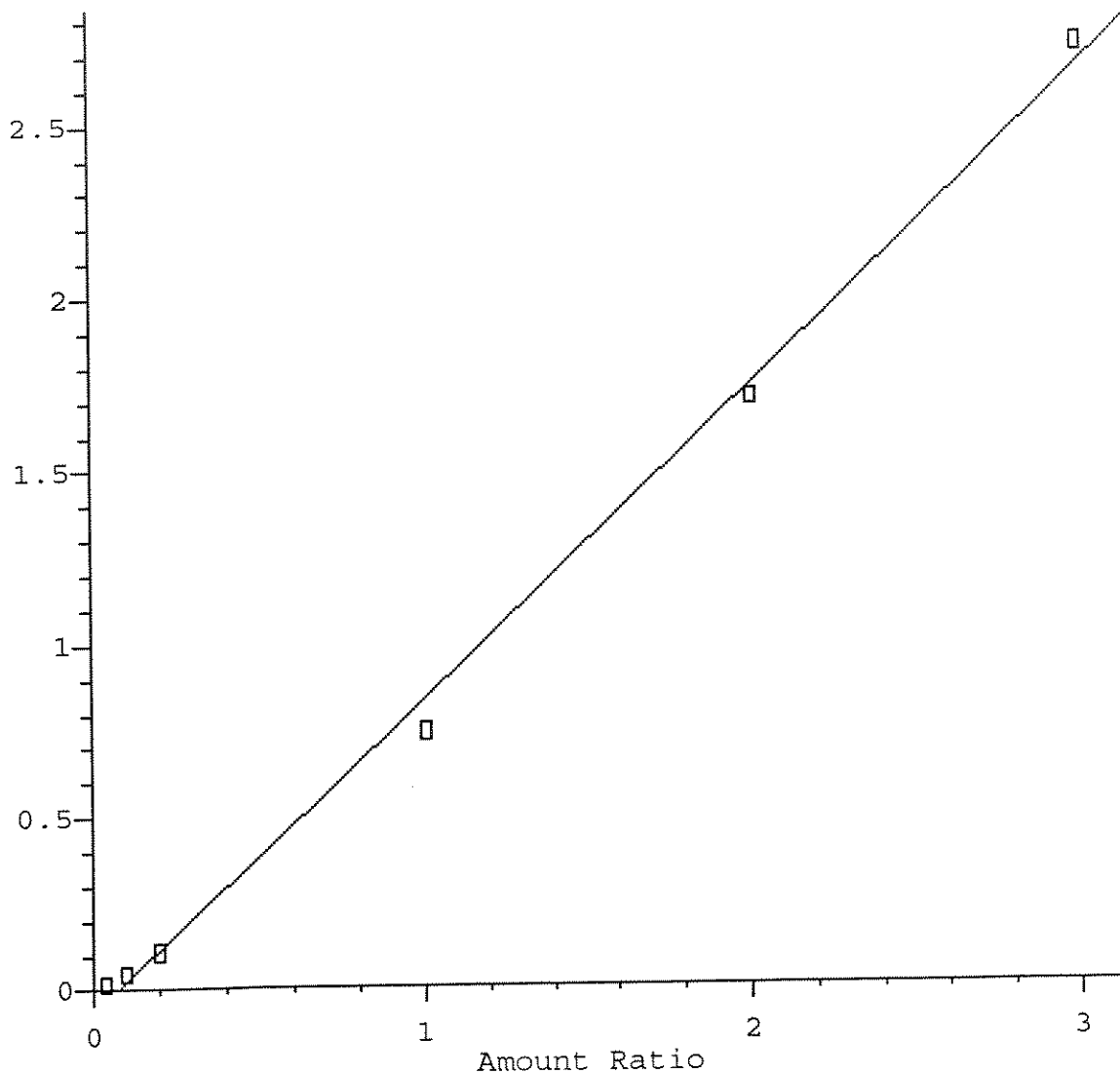


Resp Ratio = 5.18e-001 * Amt + 3.36e-003
Coef of Det (r²) = 0.999 Curve Fit: Linear

Method Name: J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Calibration Table Last Updated: Wed Mar 26 15:06:45 2008

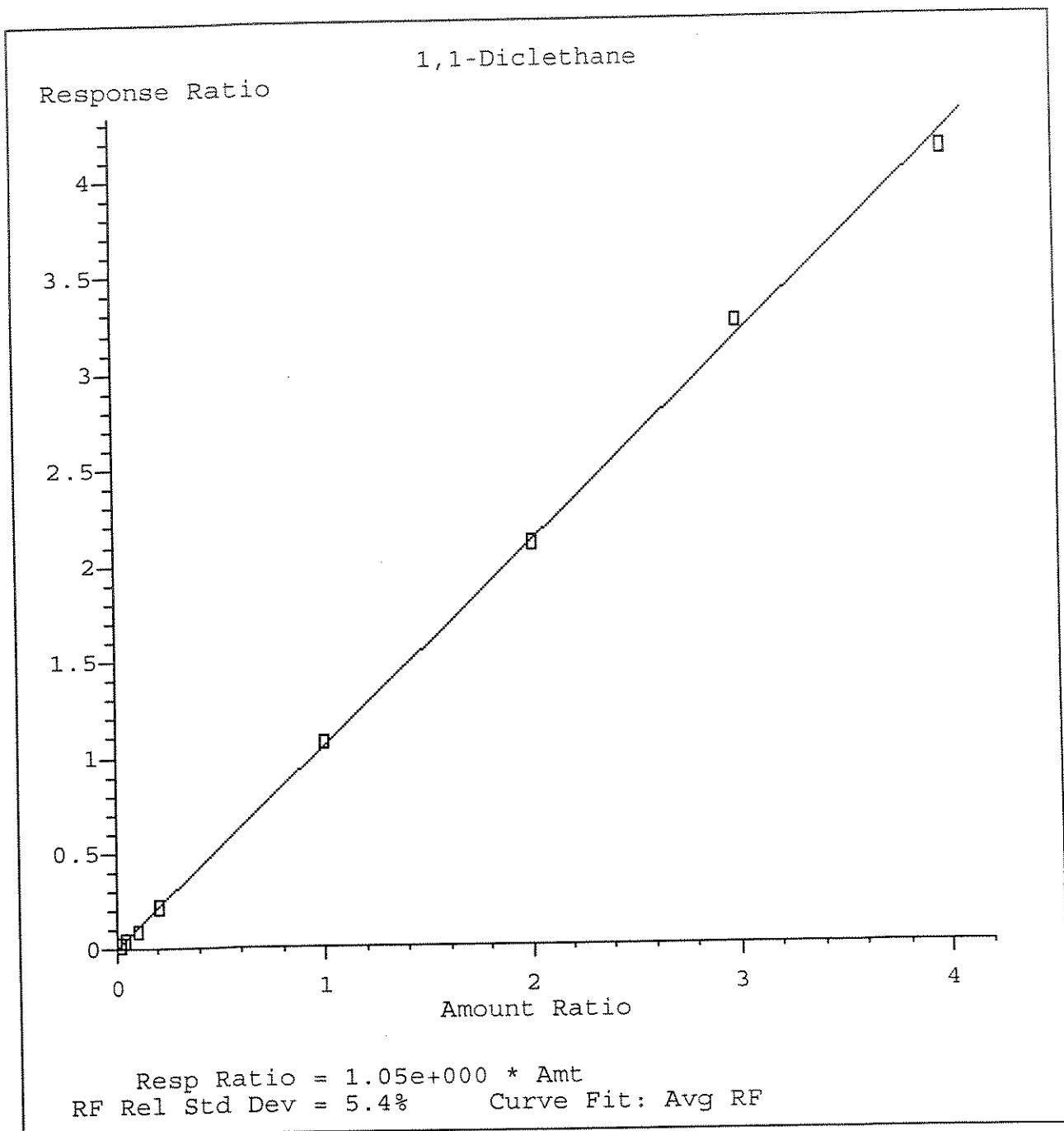
Iodomethane

Response Ratio

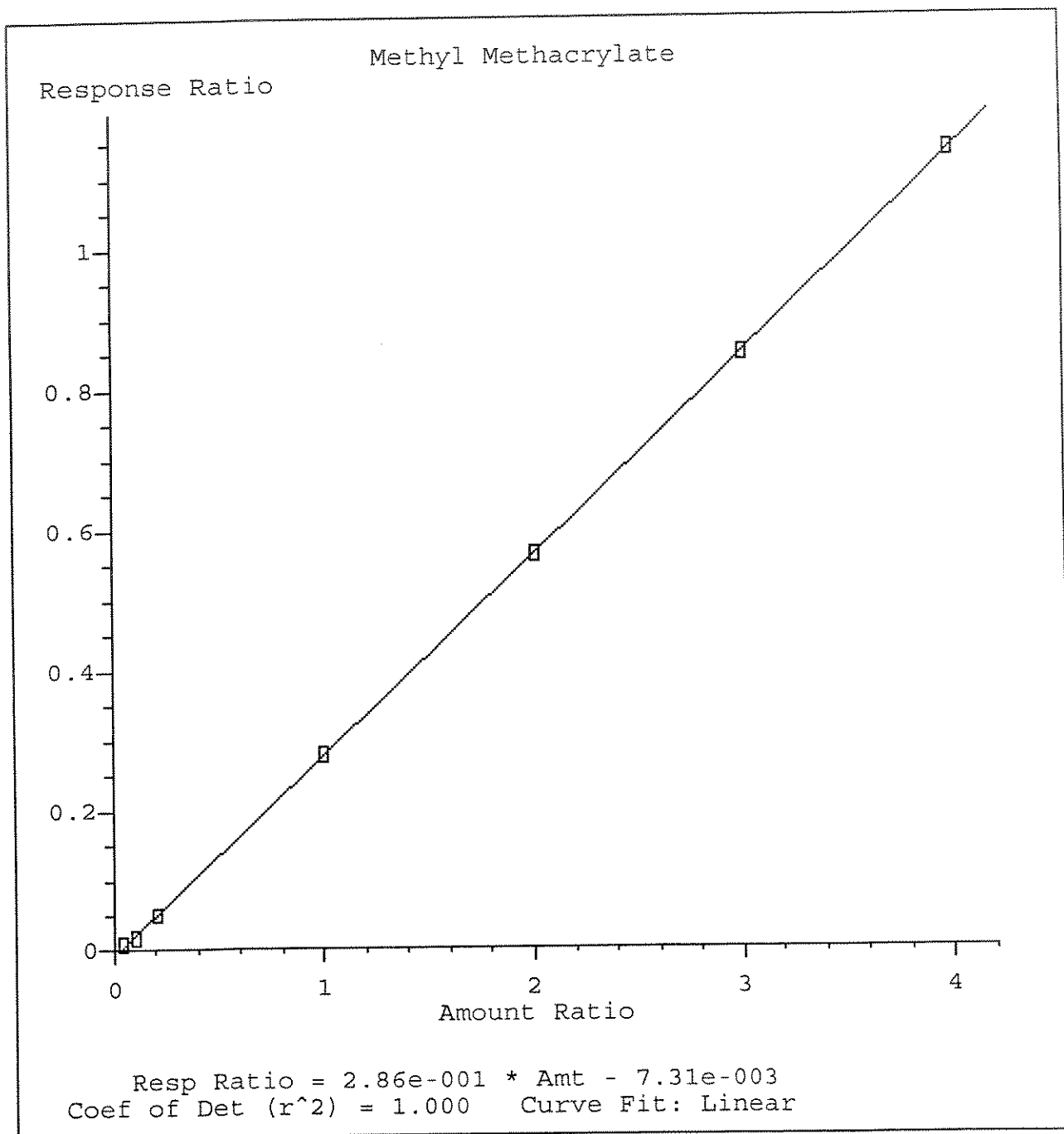


Resp Ratio = $9.05e-001 * Amt - 7.16e-002$
Coef of Det (r^2) = 0.997 Curve Fit: Linear

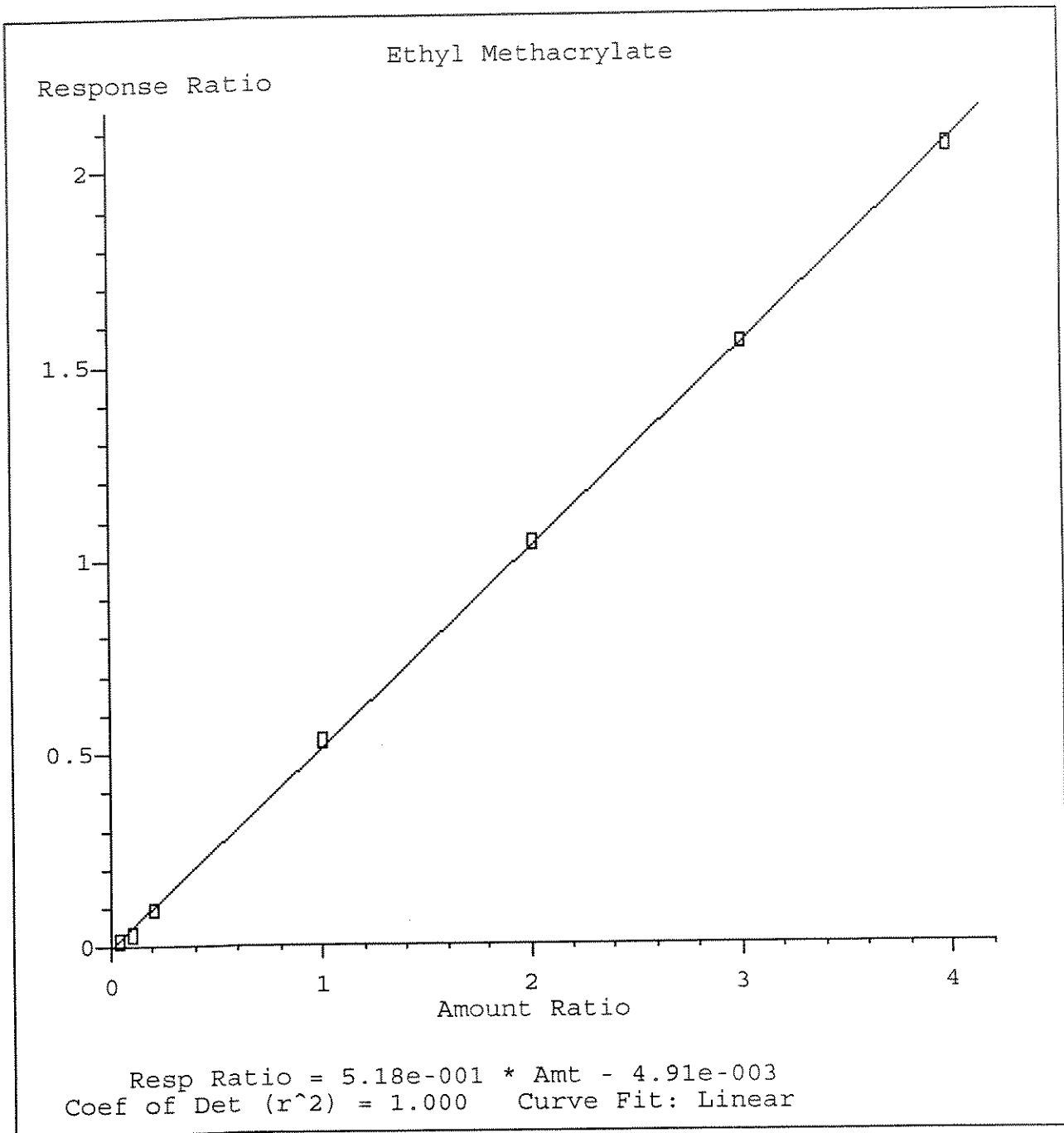
Method Name: J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Calibration Table Last Updated: Wed Mar 26 15:06:45 2008



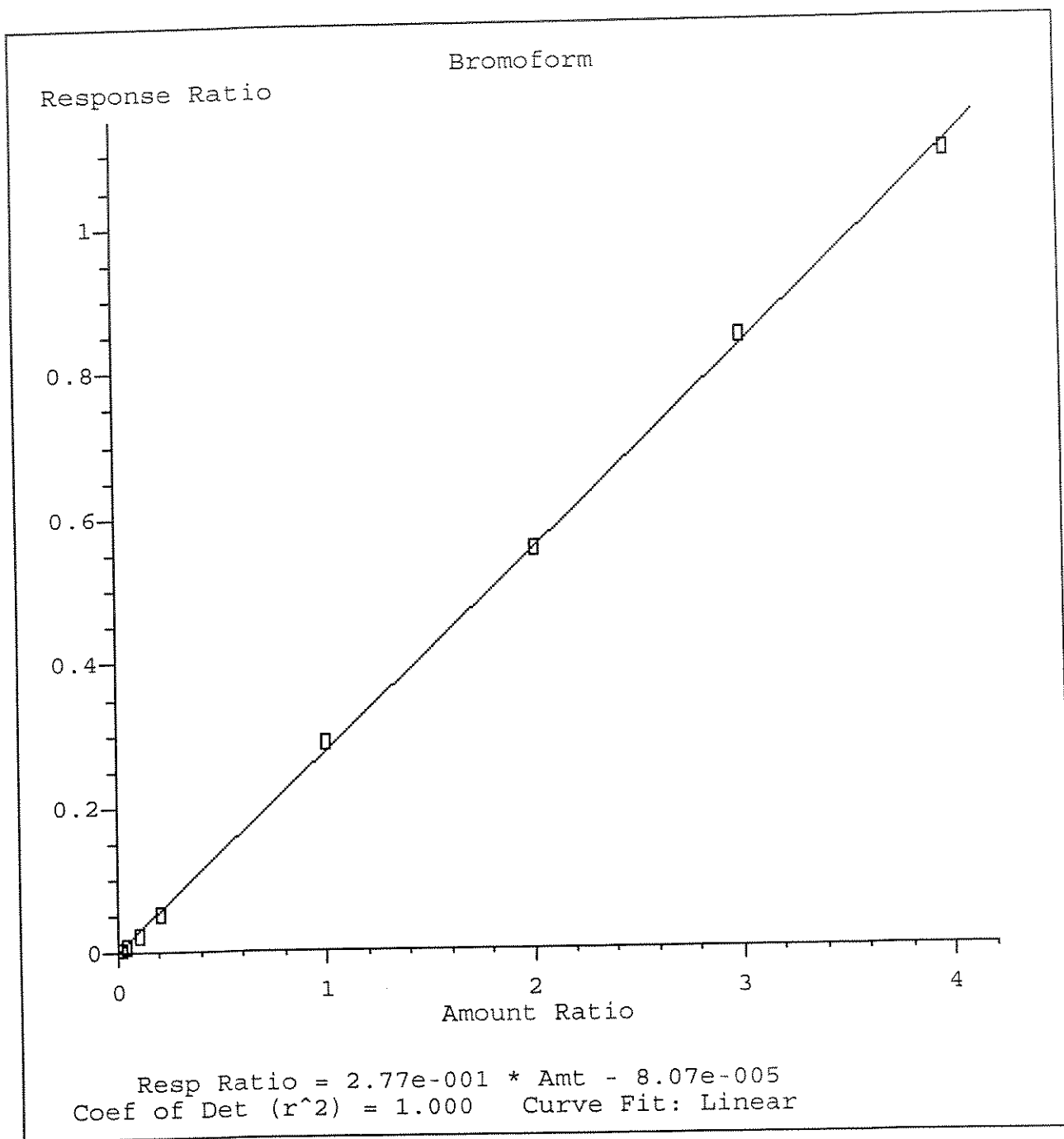
Method Name: J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Calibration Table Last Updated: Wed Mar 26 15:06:45 2008



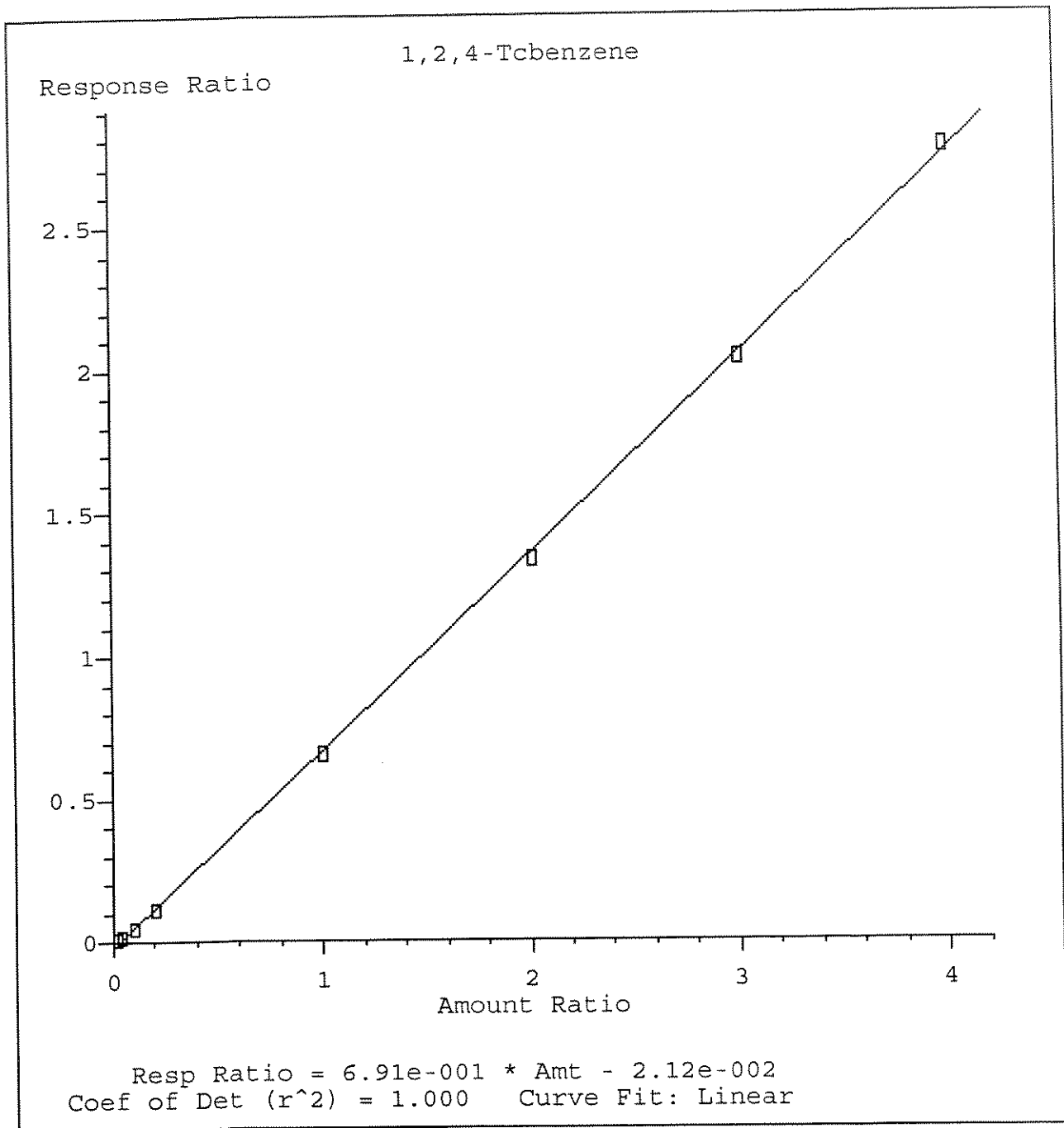
Method Name: J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Calibration Table Last Updated: Wed Mar 26 15:06:45 2008



Method Name: J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Calibration Table Last Updated: Wed Mar 26 15:06:45 2008



Method Name: J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Calibration Table Last Updated: Wed Mar 26 15:06:45 2008



Method Name: J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Calibration Table Last Updated: Wed Mar 26 15:06:45 2008

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6847.D
 Acq On : 17 Mar 108 1:28 pm
 Sample : 0.5PPB ICAL STD
 Misc :
 Quant Time: Mar 18 9:01 19108

Vial: 1
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.81	168	363667	50.00	ppb	0.00
41) 1,4-Difluorobenzene	12.13	114	631919	50.00	ppb	0.00
69) d5-Chlorobenze	17.61	117	593401	50.00	ppb	0.00
84) d4-1,4-Dichlorobenzene	22.35	152	225317	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
42) surr4,Dibrflmethane	10.82	113	223159	52.73	ppb	105.45%
48) surr1,1,2-Dicethane	11.43	65	197590	52.91	ppb	105.81%
67) surr3,Toluene-d8	14.83	98	682105	49.75	ppb	99.49%
68) surr2,bfb	19.94	95	284632	55.05	ppb	110.11%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Trichlorofluoromethane	6.15	101	2436	0.45	ppb	# 63
10) Freon 123A	6.62	85	940	0.44	ppb	# 34
12) FREON 113	7.06	101	2010	0.49	ppb	# 74
13) Freon 123	6.71	85	1729	0.42	ppb	89
18) Carbon Disulfide	7.56	76	7059	0.43	ppb	96
22) Methylene Chloride	7.92	84	2894	0.52	ppb	m 37
24) Methyl-t-Butyl Ether	8.34	73	5554	0.46	ppb	# 82
32) 2,2-Dichloropropane	10.07	77	3232	0.56	ppb	# 81
34) cis-1,2-Dichloroethene	10.06	96	2594	0.50	ppb	92
37) Bromochloromethane	10.49	128	1364	0.48	ppb	# 68
39) Chloroform	10.55	83	3341	0.41	ppb	95
44) Carbontetrachloride	11.22	117	2374	0.59	ppb	# 61
47) Benzene	11.59	78	8724	0.48	ppb	# 72
49) 1,2-Dichloroethane	11.59	62	2426	0.47	ppb	# 67
52) Trichloroethene	12.66	95	2310	0.52	ppb	# 81
54) 1,2-Diclpropane	13.11	63	2053	0.38	ppb	m 92
58) Bromodichloromethane	13.50	83	2598	0.48	ppb	# 80
61) cis-1,3-Dichloropropene	14.35	75	4369	0.54	ppb	m 100
63) Toluene	14.96	91	8532	0.48	ppb	m 92
64) trans-1,3-Dichloropropene	15.33	75	3444	0.50	ppb	m 58
70) Tetrachloroethene	16.02	166	1876	0.43	ppb	m 59
82) Isopropylbenzene	19.57	105	6230	0.38	ppb	# 84

(#) = qualifier out of range (m) = manual integration
 K6847.D WAT0317.M Wed Mar 19 09:31:12 2008

R0062

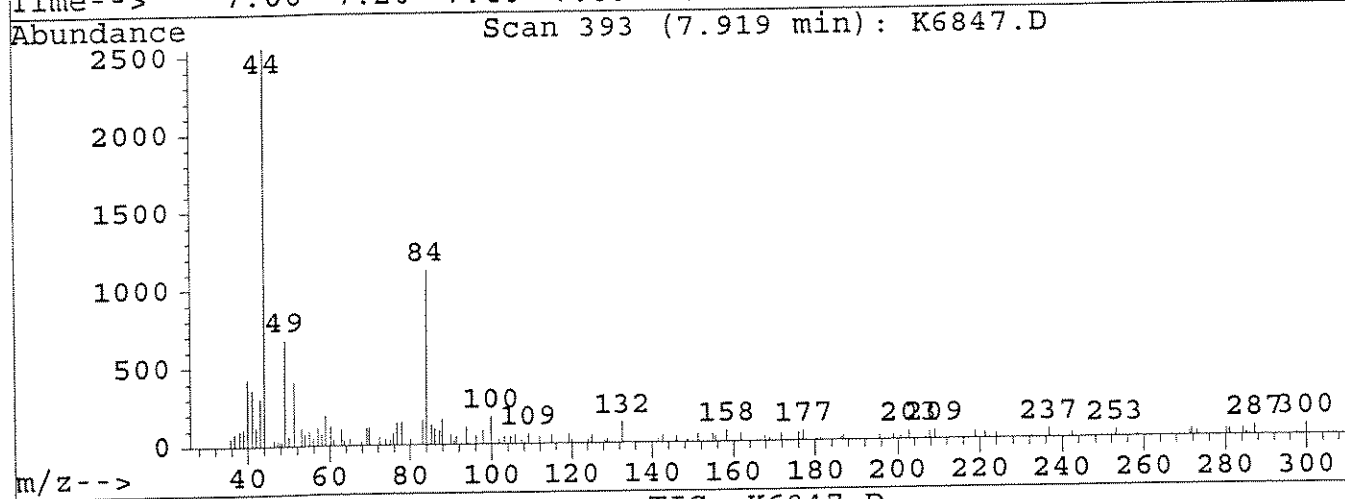
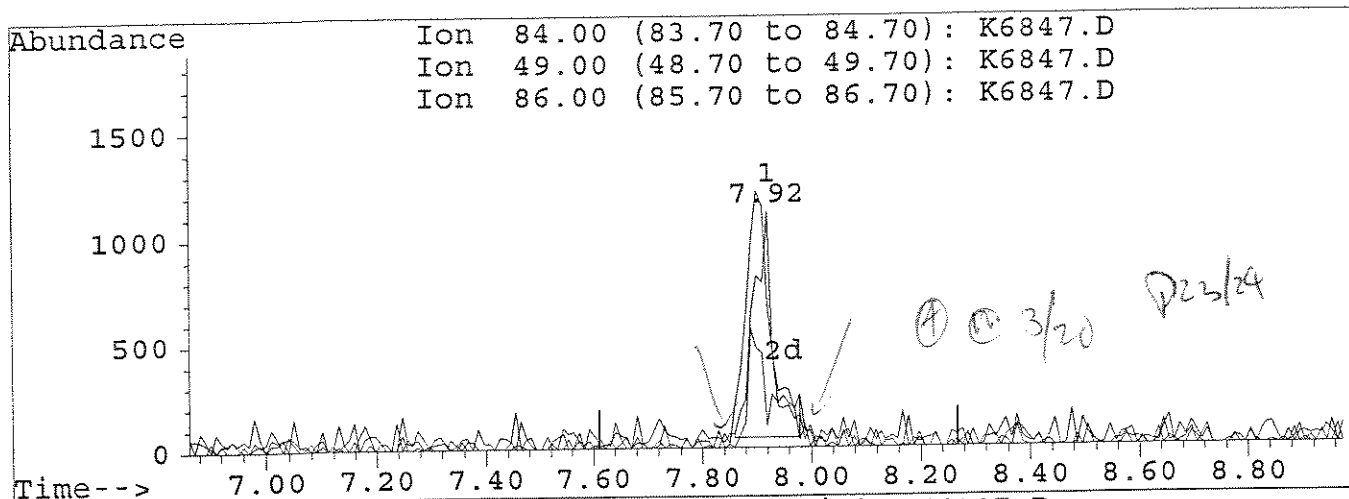
00048

Quantitation Report

Data File : J:\ACQUDATA\MSVOAS\DATA\031708\K6847.D
 Acq On : 17 Mar 108 1:28 pm
 Sample : 0.5PPB ICAL STD
 Misc :
 Quant Time: Mar 18 9:01 19108

Vial: 1
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOAS\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



(22) Methylene Chloride

7.92min 0.52ppb m

response 2894

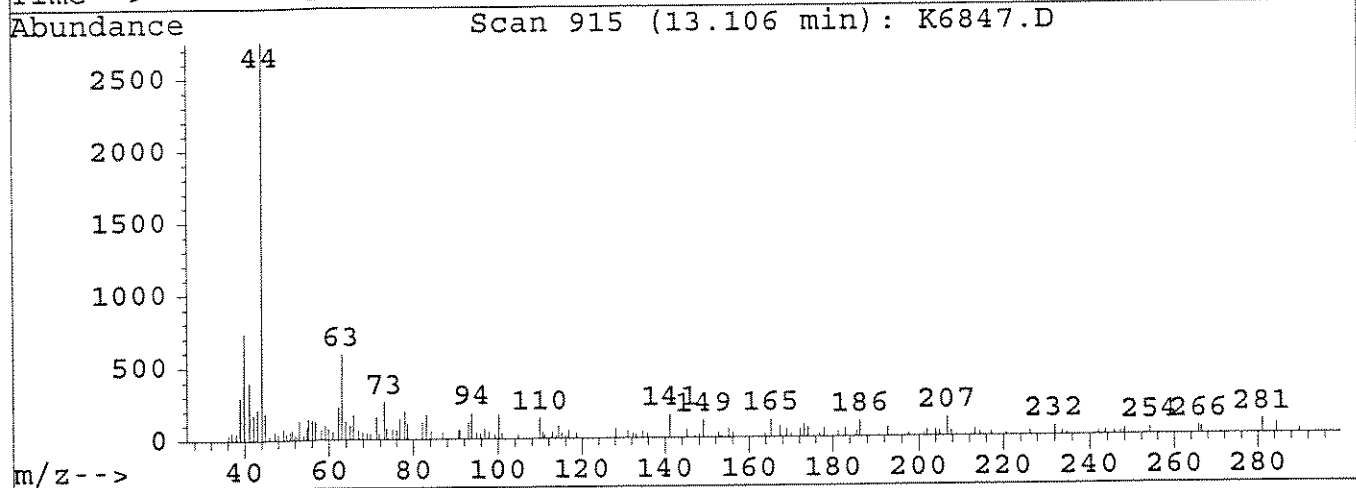
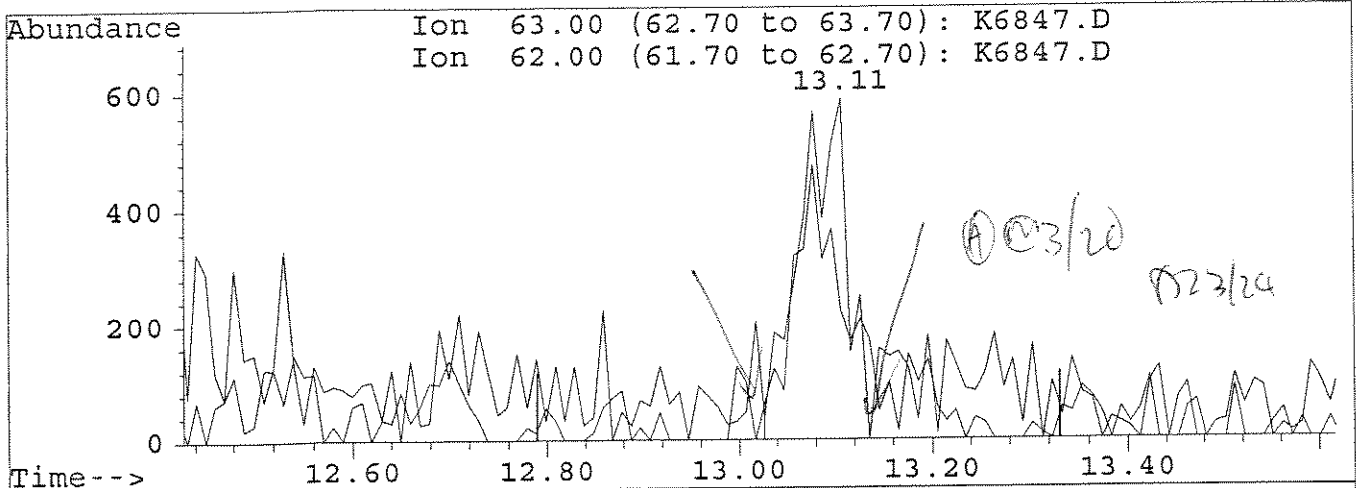
Ion	Exp%	Act%
84.00	100	100
49.00	130.50	60.61
86.00	63.70	9.31
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6847.D
 Acq On : 17 Mar 108 1:28 pm
 Sample : 0.5PPB ICAL STD
 Misc :
 Quant Time: Mar 18 9:01 19108

Vial: 1
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6847.D

(54) 1,2-Dicloropropane (c)
 13.11min 0.38ppb m
 response 2053

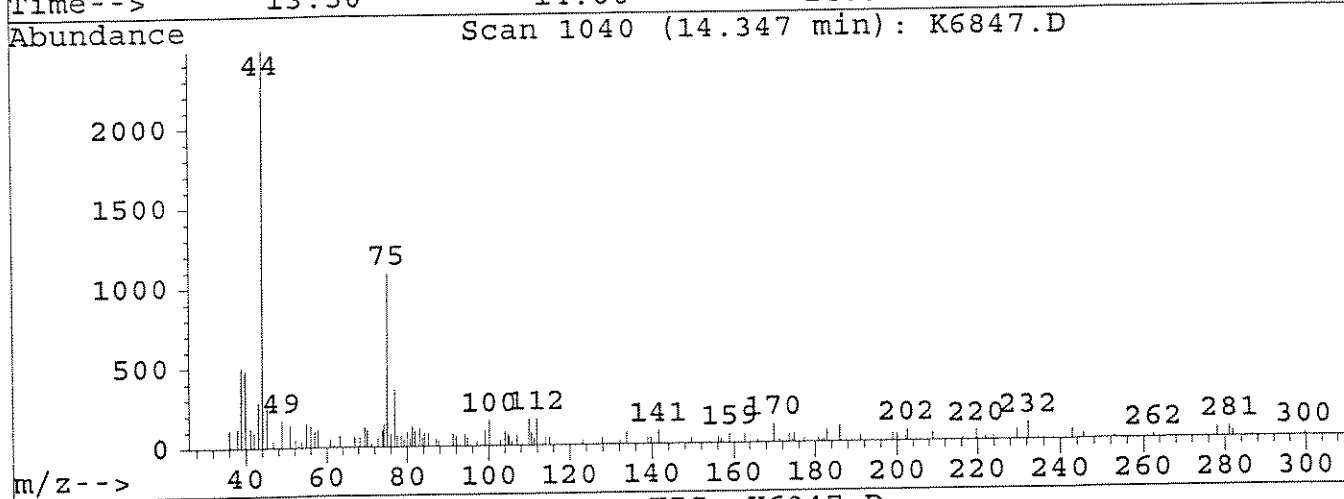
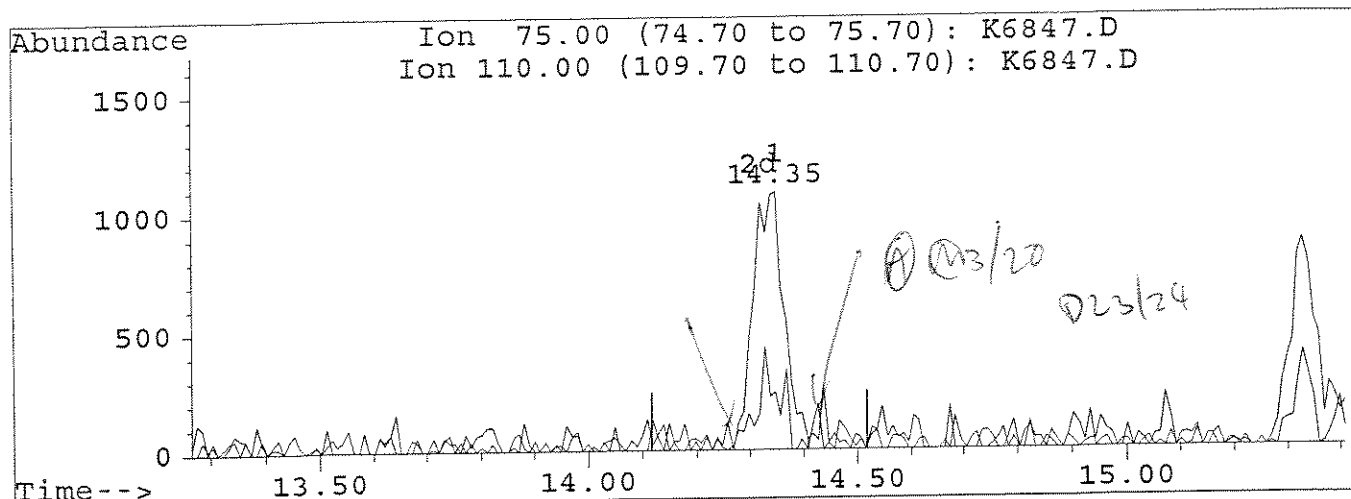
Ion	Exp%	Act%
63.00	100	100
62.00	76.90	37.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6847.D
 Acq On : 17 Mar 108 1:28 pm
 Sample : 0.5PPB ICAL STD
 Misc :
 Quant Time: Mar 18 9:01 19108

Vial: 1
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6847.D

(61) cis-1,3-Dichloropropene

14.35min 0.54ppb m

response 4369

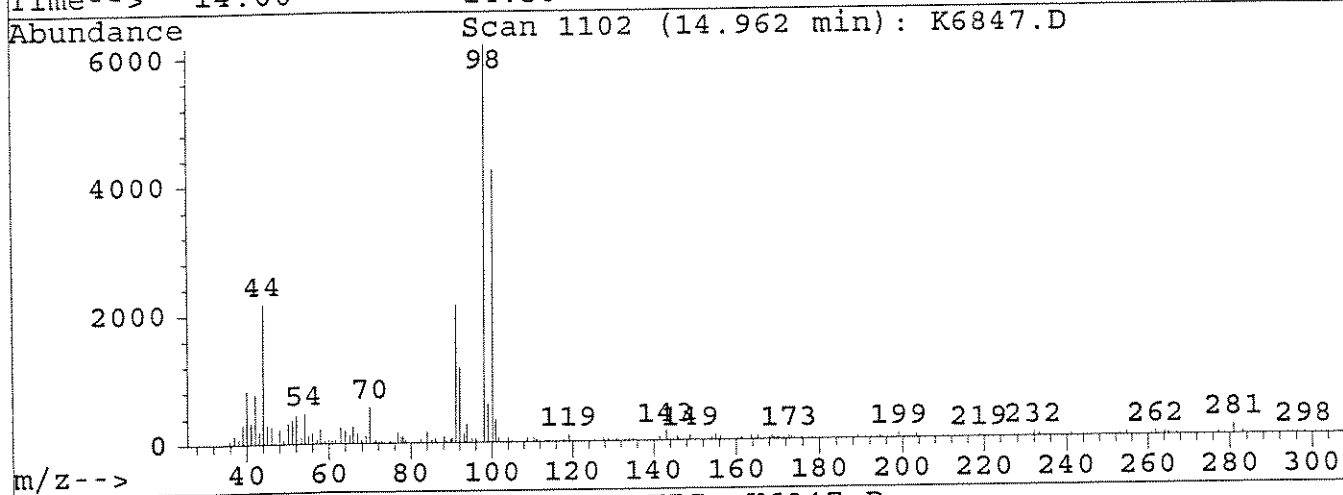
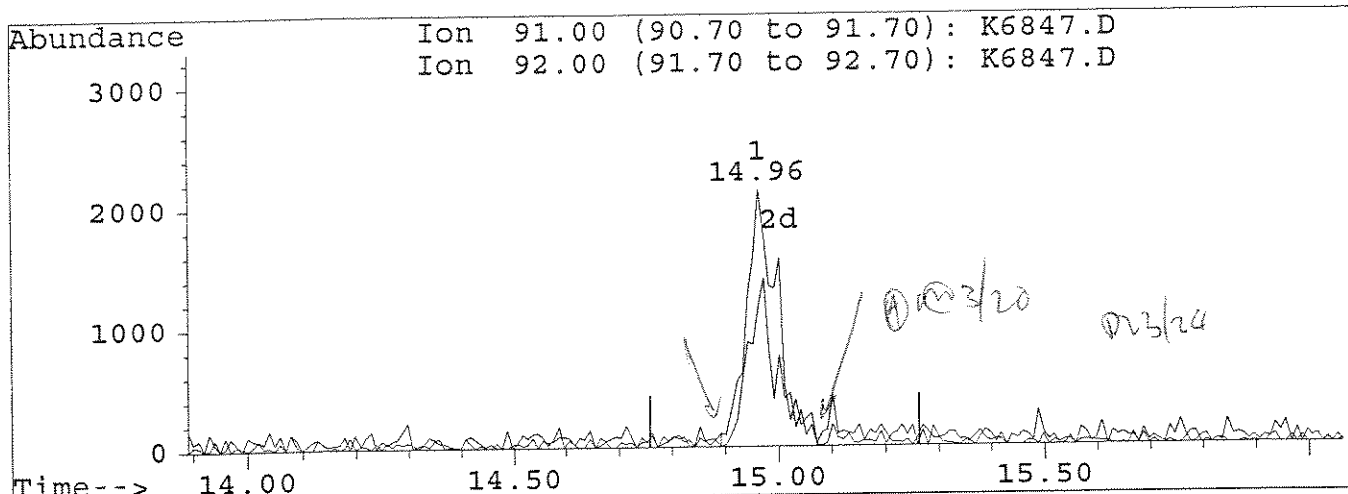
Ion	Exp%	Act%
75.00	100	100
110.00	22.40	15.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6847.D
 Acq On : 17 Mar 108 1:28 pm
 Sample : 0.5PPB ICAL STD
 Misc :
 Quant Time: Mar 18 9:01 19108

Vial: 1
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6847.D

(63) Toluene (c)
 14.96min 0.48ppb m
 response 8532

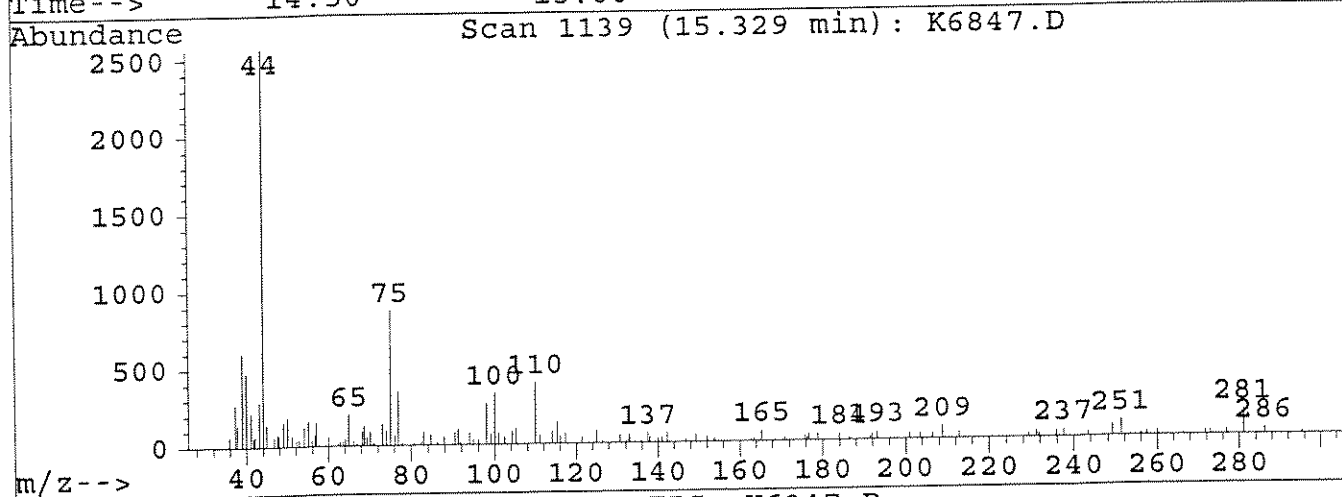
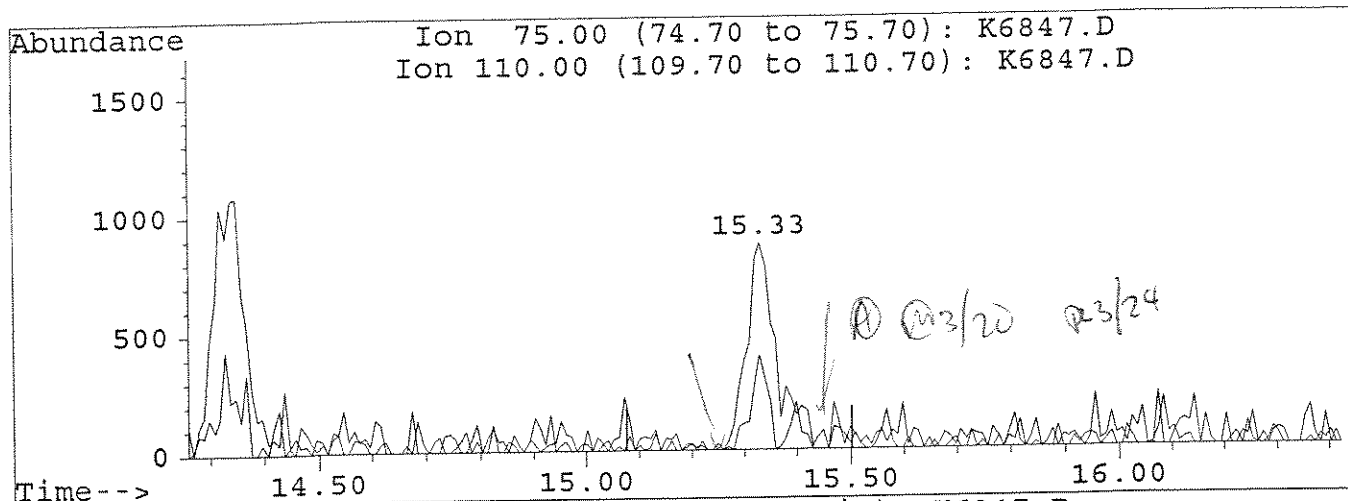
Ion	Exp%	Act%
91.00	100	100
92.00	60.40	54.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6847.D
 Acq On : 17 Mar 108 1:28 pm
 Sample : 0.5PPB ICAL STD
 Misc :
 Quant Time: Mar 18 9:01 19108

Vial: 1
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6847.D

(64) trans-1,3-Dichloropropene

15.33min 0.50ppb m

response 3444

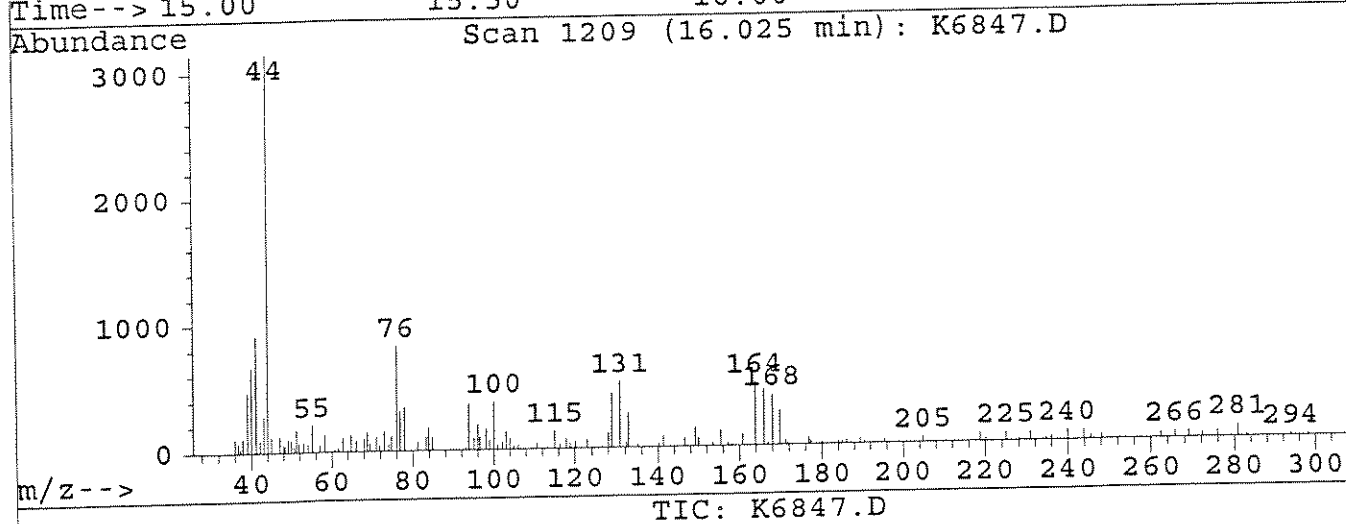
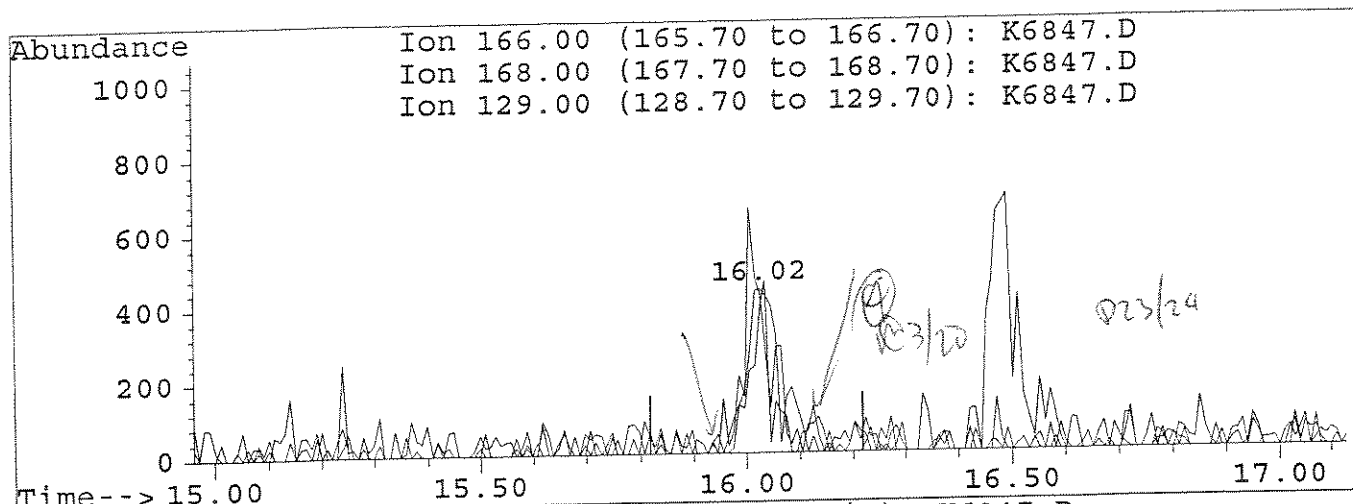
Ion	Exp%	Act%
75.00	100	100
110.00	24.80	45.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6847.D
 Acq On : 17 Mar 108 1:28 pm
 Sample : 0.5PPB ICAL STD
 Misc :
 Quant Time: Mar 18 9:01 19108

Vial: 1
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



(70) Tetrachloroethene

16.02min 0.43ppb m

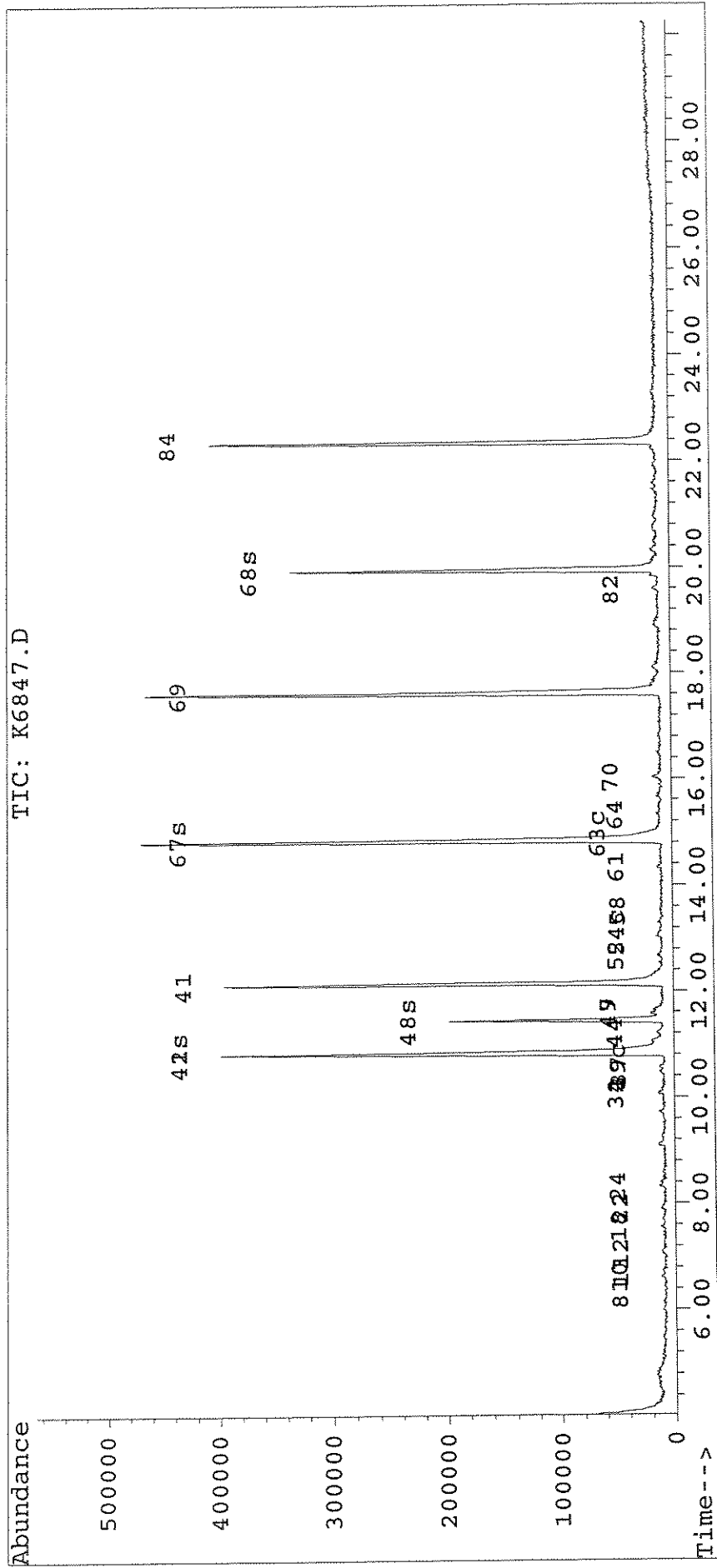
response 1876

Ion	Exp%	Act%
166.00	100	100
168.00	49.90	90.21
129.00	72.60	96.58
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQDATA\MSVOA5\DATA\031708\K6847.D Vial: 1
Acq On : 17 Mar 108 1:28 pm Operator: M.MILLER
Sample : 0.5PPB ICAL STD Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Mar 18 9:01 19108

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260Voa
Last Update : Tue Mar 18 13:23:34 2008
Response via : Multiple Level Calibration



Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

72

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.81	168	353957	50.00	ppb	0.00
41) 1,4-Difluorobenzene	12.14	114	644160	50.00	ppb	0.00
69) d5-Chlorobenze	17.61	117	602326	50.00	ppb	0.00
84) d4-1,4-Dichlorobenzene	22.35	152	218300	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
42) surr4,Dibrflmethane	10.83	113	229362	53.16	ppb	106.32%
48) surr1,1,2-Diclethane	11.45	65	199080	52.29	ppb	104.59%
67) surr3,Toluene-d8	14.83	98	699407	50.04	ppb	100.08%
68) surr2,bfb	19.94	95	291097	55.23	ppb	110.47%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.11	85	2942	0.74	ppb	m 95
3) Chloromethane	4.54	50	5480	0.89	ppb	m 92
4) Vinyl Chloride	4.76	62	3037	0.54	ppb	m 98
5) Bromomethane	5.48	96	3345	1.03	ppb	# 84
6) Chloroethane	5.65	64	2857	0.76	ppb	# 67
7) Freon 21	6.01	67	9241	0.92	ppb	# 97
8) Trichlorofluoromethane	6.14	101	5216	0.99	ppb	# 86
9) Diethyl Ether	6.65	59	2775	0.71	ppb	# 96
10) Freon 123A	6.61	85	2010	0.97	ppb	# 80
11) Acrolein	6.90	56	3319	4.96	ppb	m 88
12) FREON 113	7.05	101	3086	0.77	ppb	# 70
13) Freon 123	6.72	85	3886	0.96	ppb	# 67
14) 1,1-Diclethene	7.11	96	3320	0.93	ppb	m 88
16) 2-propanol	7.29	45	2963	12.77	ppb	# 87
17) Iodomethane	7.40	142	2617	0.39	ppb	# 94
18) Carbon Disulfide	7.57	76	12113	0.77	ppb	# 96
19) Acetonitrile	7.62	41	3135	5.17	ppb	m 99
20) Allyl Chloride	7.70	41	6715	0.94	ppb	m 95
21) Methyl Acetate	7.70	43	4913	0.97	ppb	# 89
22) Methylene Chloride	7.91	84	4257	0.78	ppb	# 85
23) TBA	7.96	59	6666	18.80	ppb	# 86
24) Methyl-t-Butyl Ether	8.35	73	10573	0.90	ppb	# 81
25) Acrylonitrile	8.31	53	7588	4.03	ppb	# 94
26) trans-1,2-Dichloroethene	8.39	96	4652	0.99	ppb	m 79
27) DIPE	9.11	45	13286	0.72	ppb	# 83
28) 1,1-Diclethane	9.10	63	7612	0.86	ppb	# 95
30) 2-Chloro-1,3-butadiene	9.27	53	4781	0.77	ppb	# 64
31) ETBE	9.70	59	12796	0.83	ppb	# 94
32) 2,2-Dichloropropane	10.07	77	5686	1.01	ppb	# 83
34) cis-1,2-Dichloroethene	10.07	96	4113	0.81	ppb	# 88
35) Propionitrile	10.17	54	2329	3.76	ppb	# 68
37) Bromochloromethane	10.48	128	2139	0.78	ppb	# 58

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	10.55	83	7534	0.95	ppb	# 81
40) 1,1,1-Trichloroethane	10.94	97	5638	1.05	ppb	# 1
43) Cyclohexane	11.06	56	7150	0.88	ppb	# 76
44) Carbontetrachloride	11.24	117	3137	0.77	ppb	# 84
45) 1,1-Dichloropropene	11.20	75	5221	0.84	ppb	m 96
47) Benzene	11.58	78	15942	0.86	ppb	# 77
49) 1,2-Dichloroethane	11.58	62	4763	0.90	ppb	m 100
50) TAME	11.64	73	11261	0.87	ppb	# 84
52) Trichloroethene	12.67	95	3864	0.85	ppb	# 78
53) Methylcyclohexane	13.04	55	5265	0.96	ppb	# 74
54) 1,2-Dichloropropane	13.06	63	4607	0.84	ppb	m 98
57) Dibromomethane	13.29	93	3561	1.12	ppb	# 68
58) Bromodichloromethane	13.52	83	5691	1.02	ppb	# 77
60) 2-Chloroethylvinyl Ether	14.05	63	1817	3.32	ppb	m 91
61) cis-1,3-Dichloropropene	14.34	75	8451	1.03	ppb	# 76
62) 4-Methyl-2-Pentanone	14.53	43	4000	0.80	ppb	# 83
63) Toluene	14.96	91	16848	0.93	ppb	# 89
64) trans-1,3-Dichloropropene	15.33	75	6102	0.88	ppb	# 93
66) 1,1,2-Trichloroethane	15.67	83	4036	1.05	ppb	m 65
70) Tetrachloroethene	16.04	166	3938	0.90	ppb	m 75
72) 1,3-Dichloropropane	16.02	76	7251	0.86	ppb	m 92
73) Dibromochloromethane	16.48	129	4617	0.96	ppb	# 81
74) 1,2-Dibromoethane	16.81	107	4724	0.97	ppb	# 61
75) Chlorobenzene	17.69	112	12079	0.95	ppb	m 83
76) 1,1,1,2-Tetrachloroethane	17.80	131	4327	1.00	ppb	# 89
77) Ethylbenzene	17.86	91	15107	0.77	ppb	# 93
78) (m+p) Xylene	18.09	106	10093	1.50	ppb	# 74
79) o-Xylene	18.89	106	5216	0.77	ppb	# 54
80) Styrene	18.95	104	8236	0.73	ppb	# 97
81) Bromoform	19.35	173	2005	0.70	ppb	m 97
82) Isopropylbenzene	19.58	105	14887	0.90	ppb	# 89
83) Cyclohexanone	19.83	55	14118	20.01	ppb	# 81
85) 1,1,2,2-Tetrachloroethane	20.14	83	6118	1.11	ppb	# 73
86) 1,2,3-Trichloropropane	20.29	110	1542	1.06	ppb	m 26
87) Trans-1,4-Dichloro-2-Buten	20.30	53	1422	1.16	ppb	m 98
88) n-Propylbenzene	20.47	91	14376	0.88	ppb	m 75
89) Bromobenzene	20.33	156	4367	0.94	ppb	# 93
90) 1,3,5-Trimethylbenzene	20.76	105	8660	1.04	ppb	# 94
91) 2-Chlorotoluene	20.67	91	10831	0.94	ppb	m 91
92) 4-Chlorotoluene	20.94	91	10492	1.04	ppb	m 94
93) tert-Butylbenzene	21.46	119	8805	1.05	ppb	# 95
94) 1,2,4-Trimethylbenzene	21.57	105	7819	1.04	ppb	# 93
95) sec-Butylbenzene	21.92	105	9110	0.80	ppb	# 99
96) p-Isopropyltoluene	22.20	119	8098	0.98	ppb	m 93

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
97) 1,3-Dclbenz	22.25	146	6651	0.93	ppb	90
98) 1,4-Dclbenz	22.40	146	6281	0.92	ppb #	87
99) n-Butylbenzene	23.19	91	5310	0.82	ppb m	63
100) 1,2-Dclbenz	23.28	146	5303	0.78	ppb #	84
103) 1,2,4-Tcbenzene	27.27	180	1856	0.79	ppb m	50
104) Hexachlorobt	27.52	225	1109	0.86	ppb m	40
105) Naphthalen	27.84	128	6339	1.12	ppb m	100
106) 1,2,3-Tclbenzene	28.39	180	2263	1.06	ppb m	95

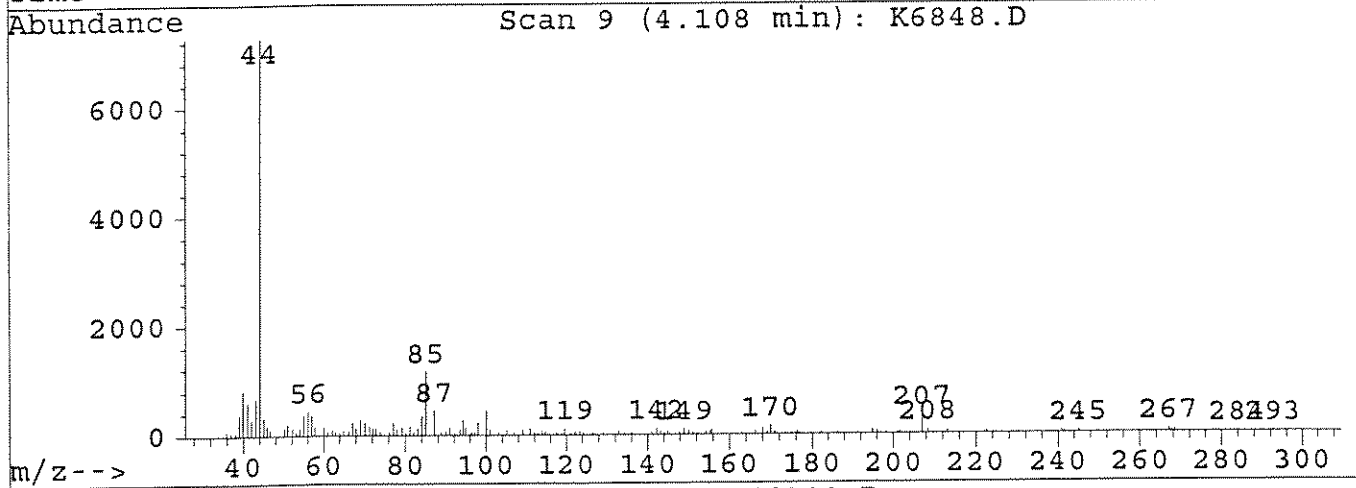
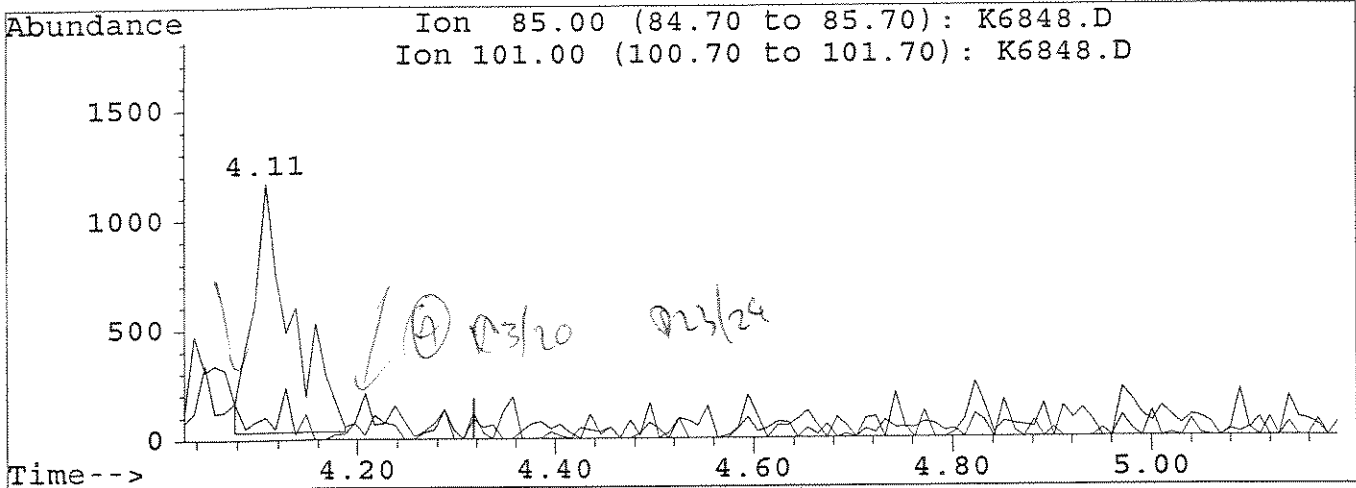
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(2) Dichlorodifluoromethane
 4.11min 0.74ppb m
 response 2942

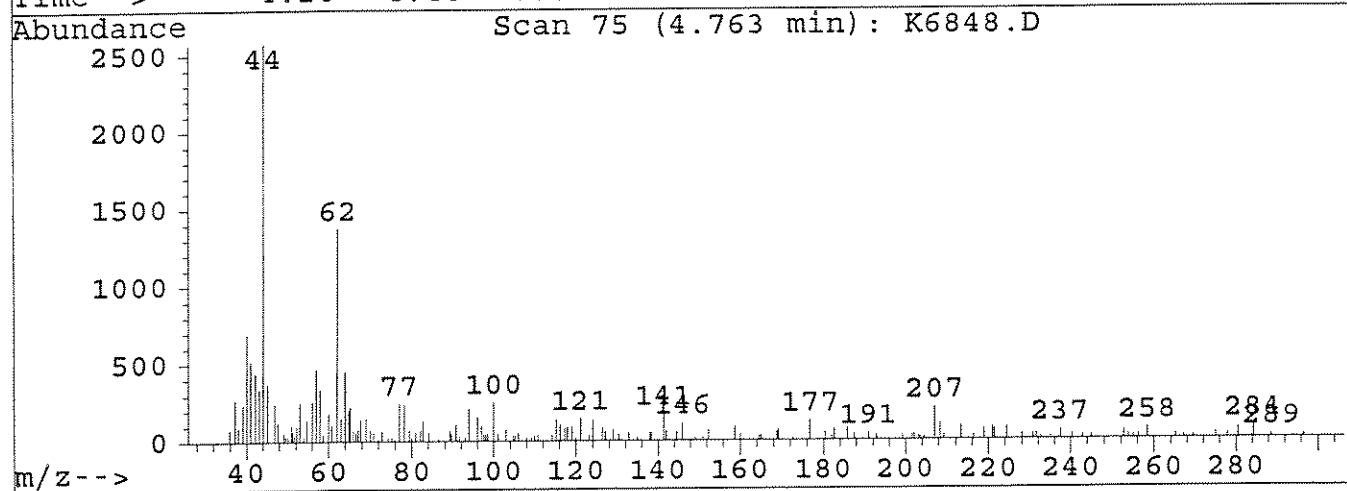
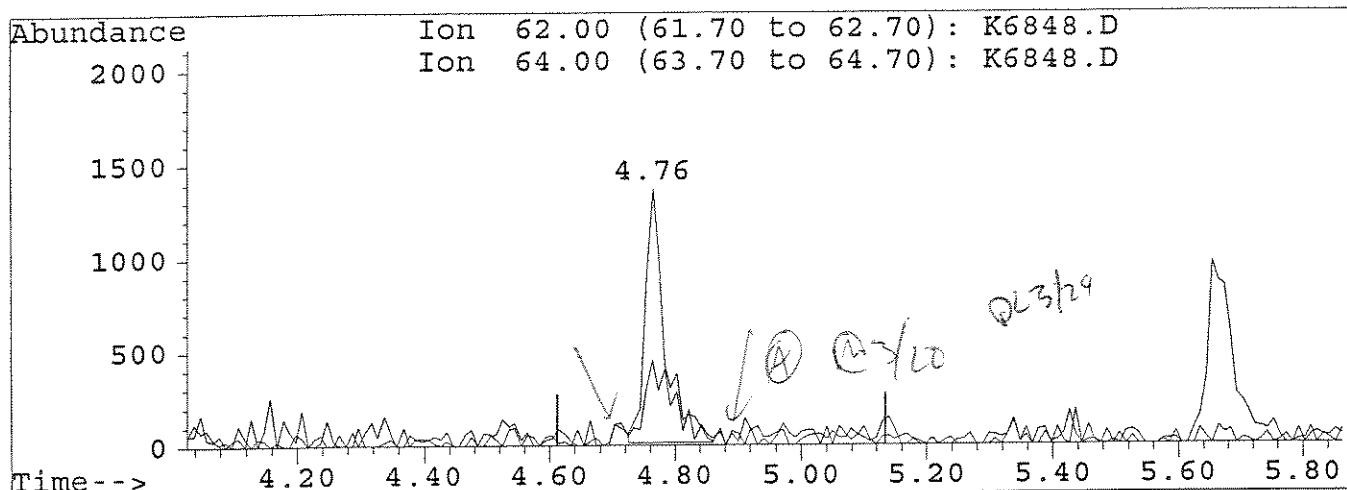
Ion	Exp%	Act%
85.00	100	100
101.00	7.00	8.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(4) Vinyl Chloride (c)
 4.76min 0.54ppb m
 response 3037

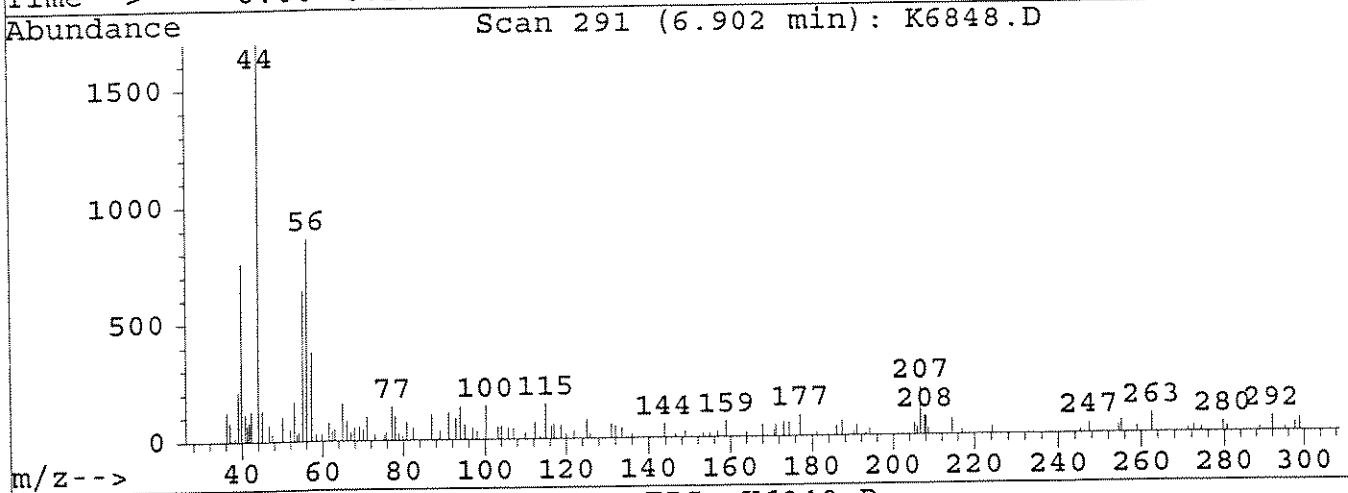
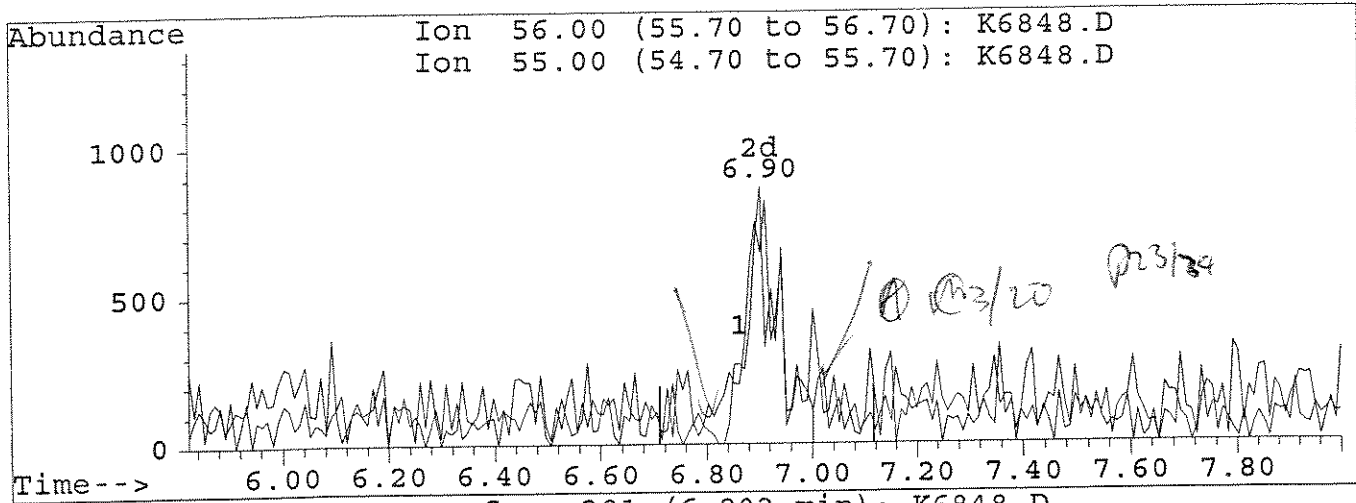
Ion	Exp%	Act%
62.00	100	100
64.00	31.90	32.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



(11) Acrolein
 6.90min 4.96ppb m
 response 3319

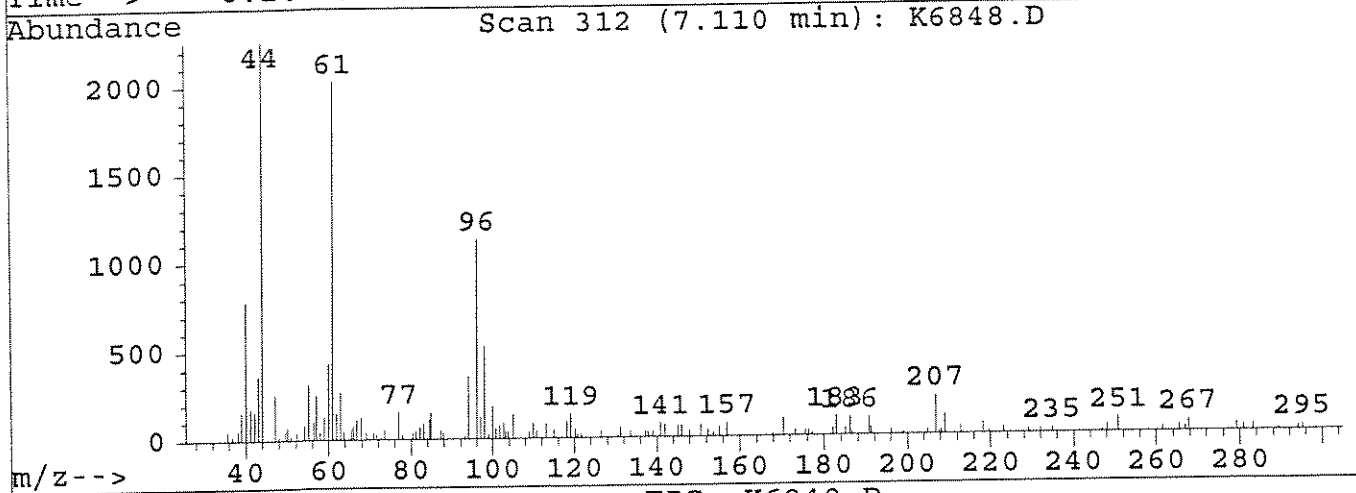
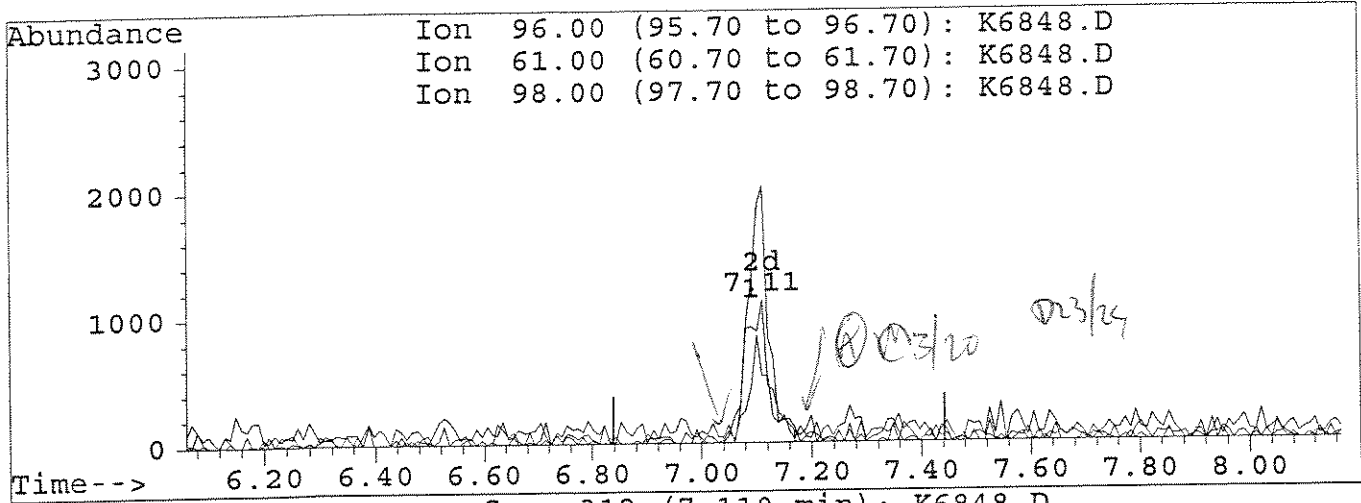
Ion	Exp%	Act%
56.00	100	100
55.00	65.30	74.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



(14) 1,1-Dicylethene (c)

7.11min 0.93ppb m

response 3320

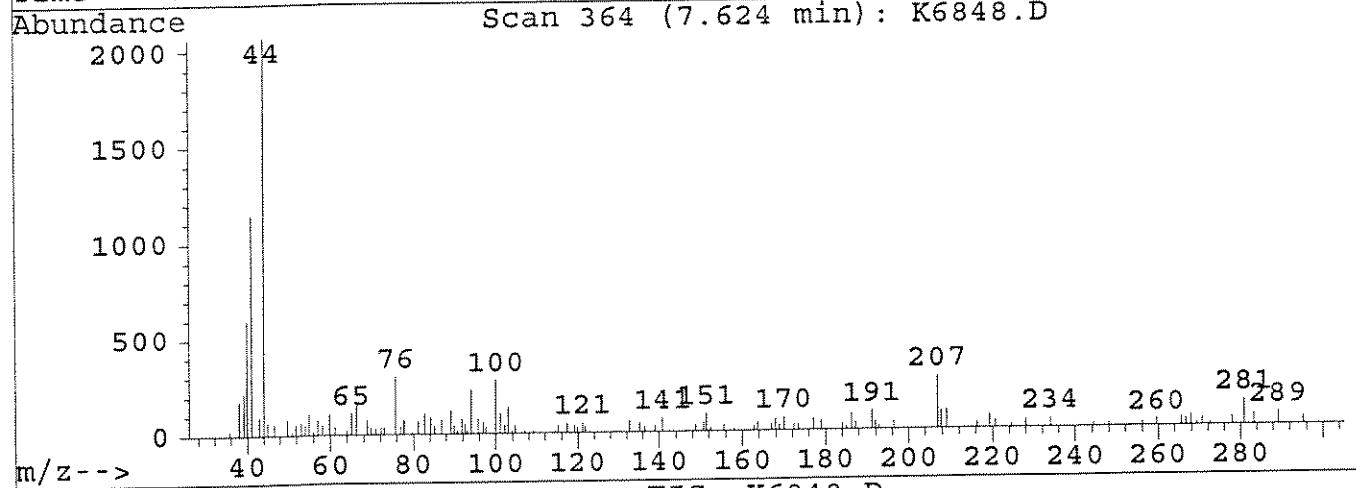
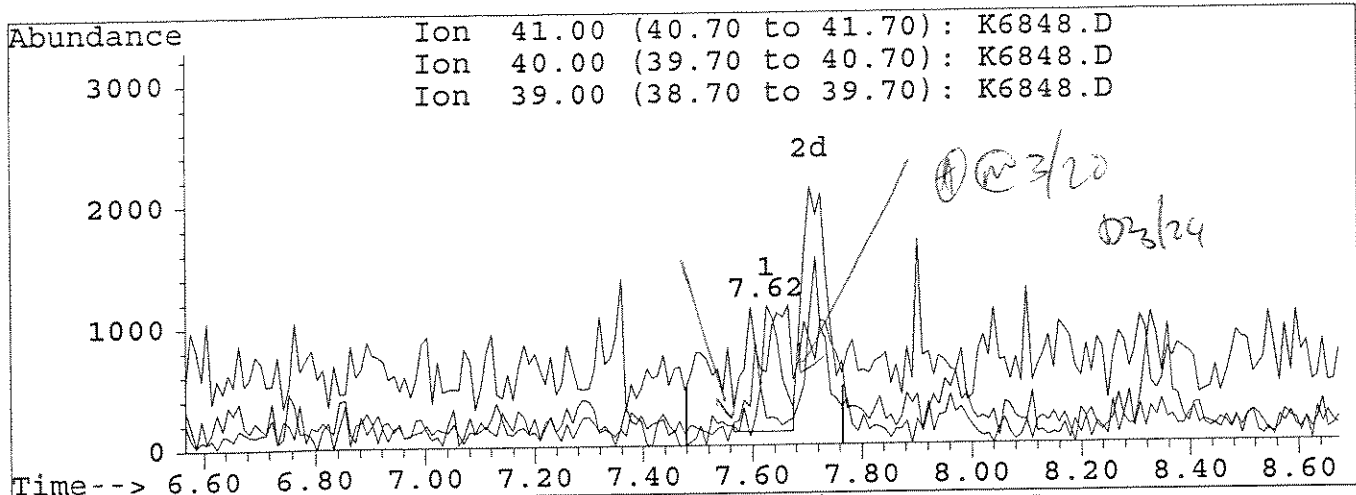
Ion	Exp%	Act%
96.00	100	100
61.00	157.70	180.43
98.00	61.00	46.53
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(19) Acetonitrile
 7.62min 5.17ppb m
 response 3135

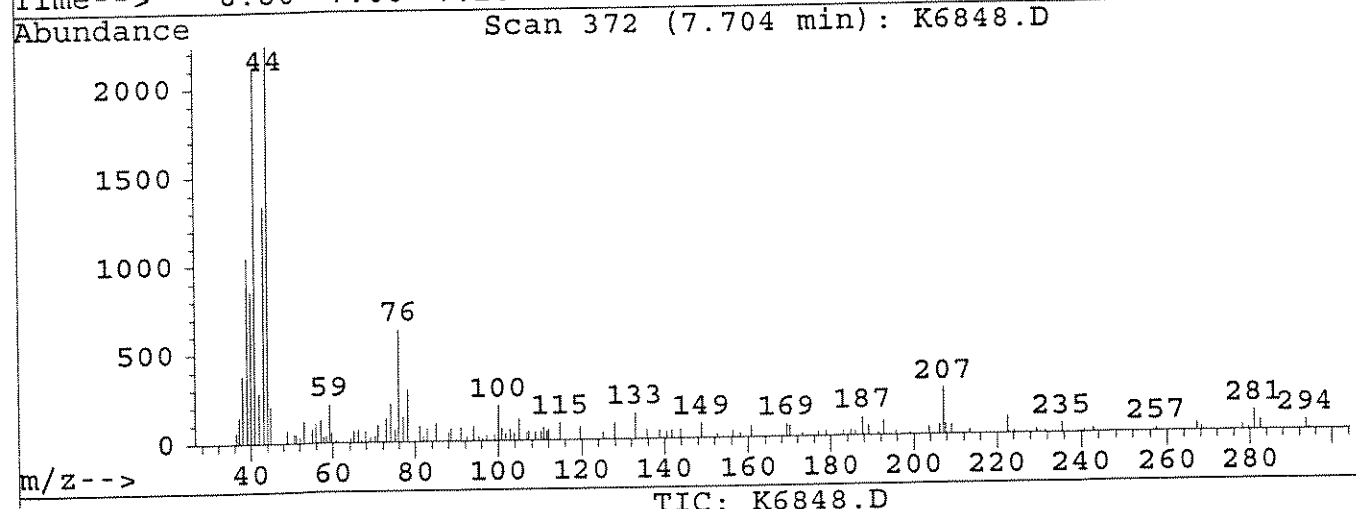
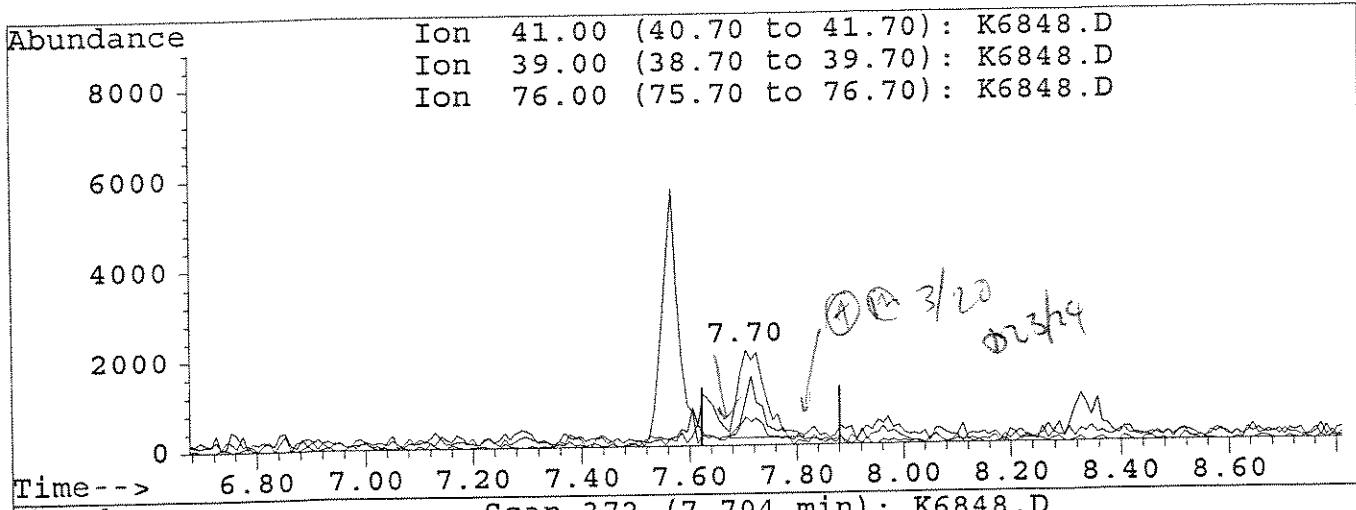
Ion	Exp%	Act%
41.00	100	100
40.00	53.10	52.40
39.00	18.90	18.86
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



(20) Allyl Chloride
 7.70min 0.94ppb m
 response 6715

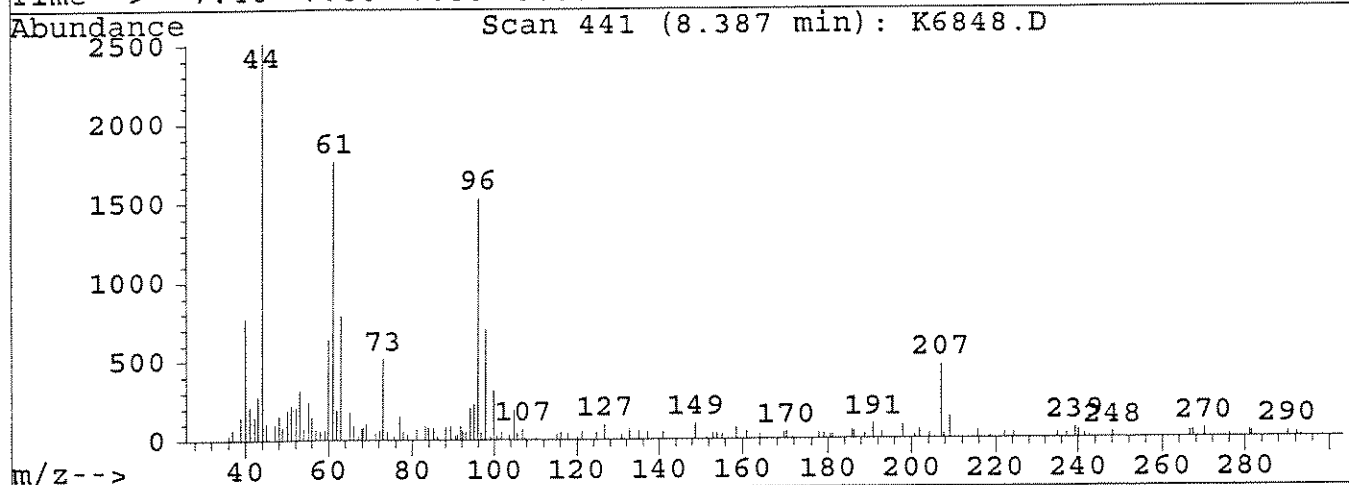
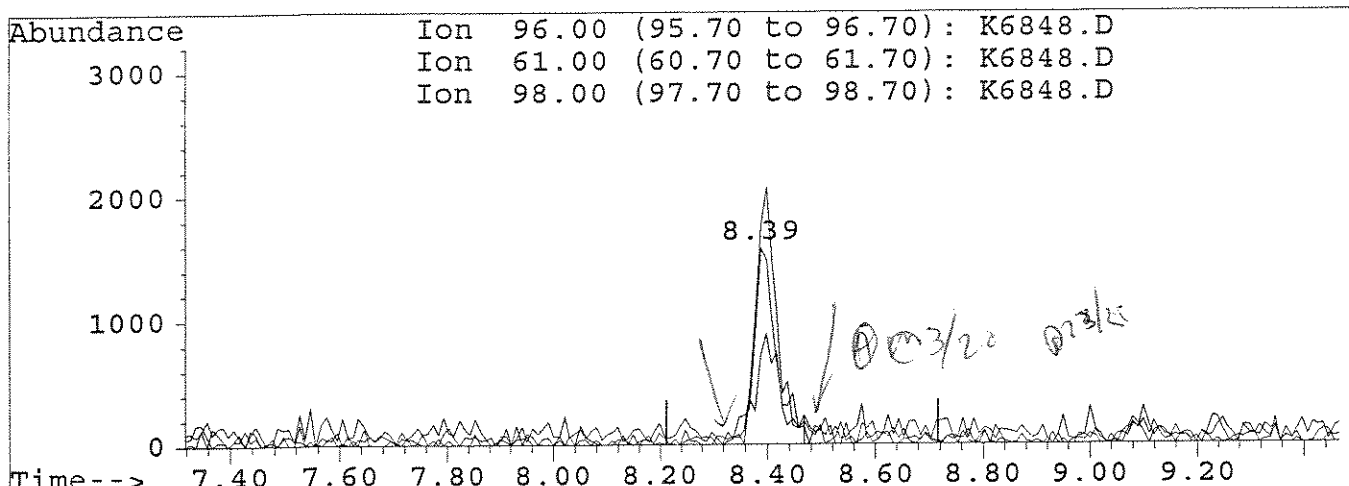
Ion	Exp%	Act%
41.00	100	100
39.00	50.60	49.22
76.00	35.40	29.83
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(26) trans-1,2-Dichloroethene
 8.39min 0.99ppb m
 response 4652

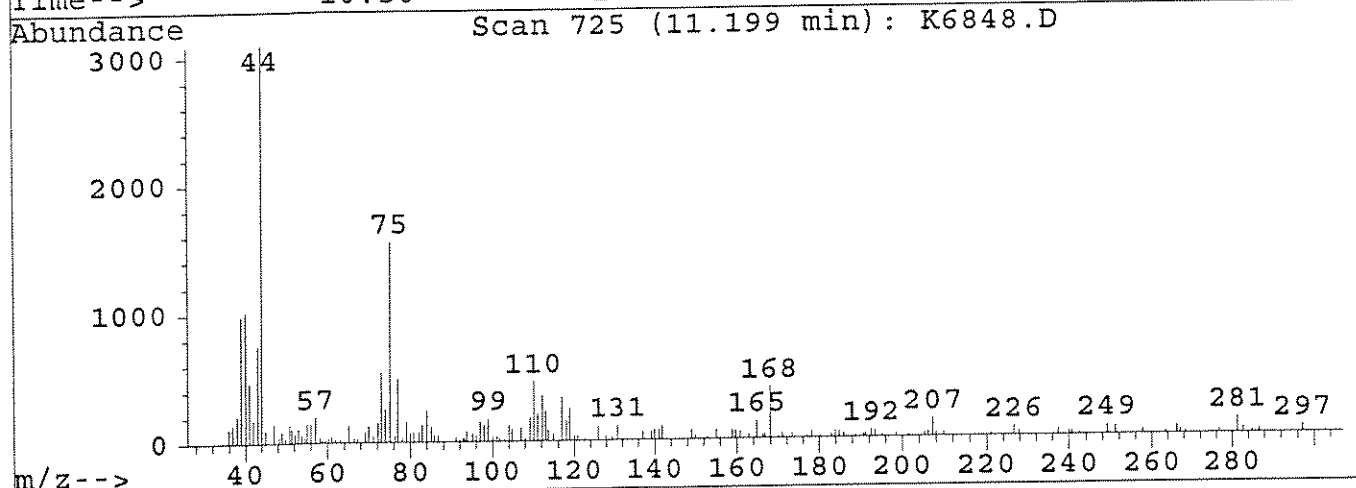
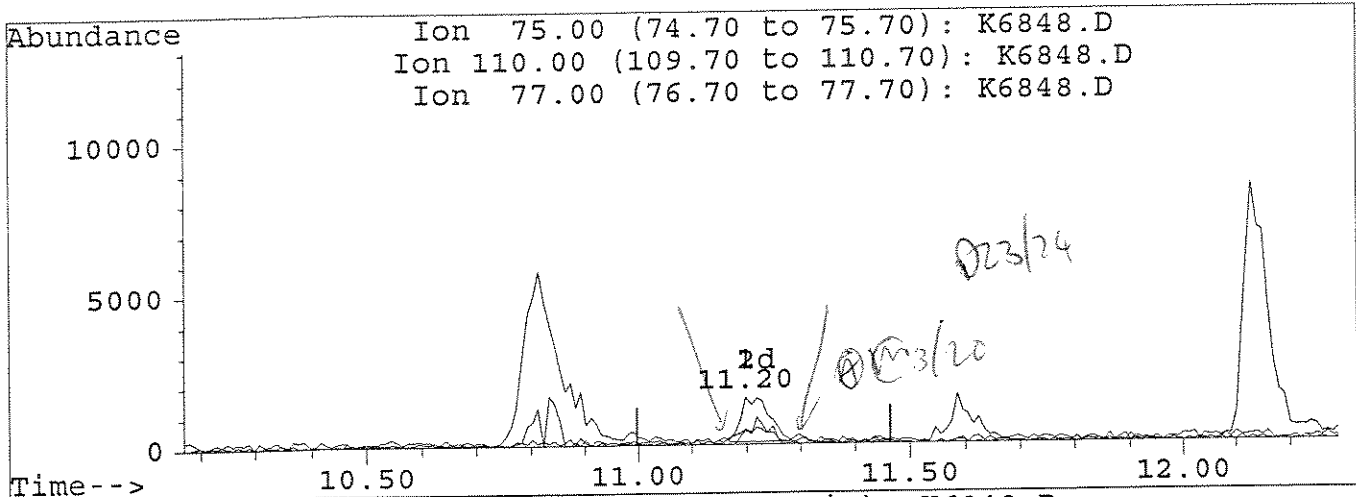
Ion	Exp%	Act%
96.00	100	100
61.00	137.30	115.10
98.00	60.70	45.75
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(45) 1,1-Dichloropropene

11.20min 0.84ppb m
 response 5221

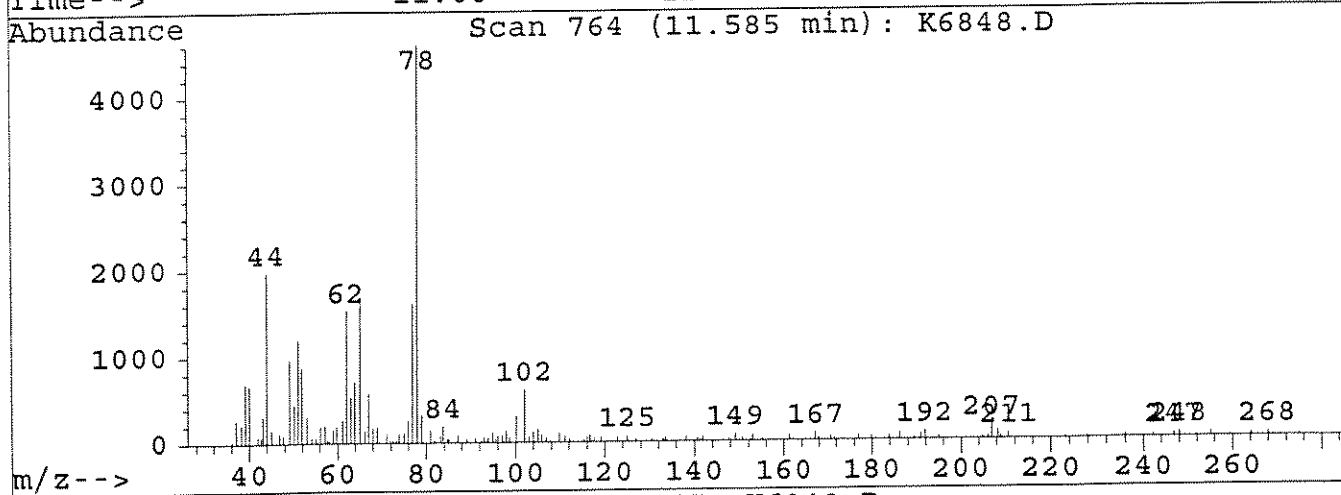
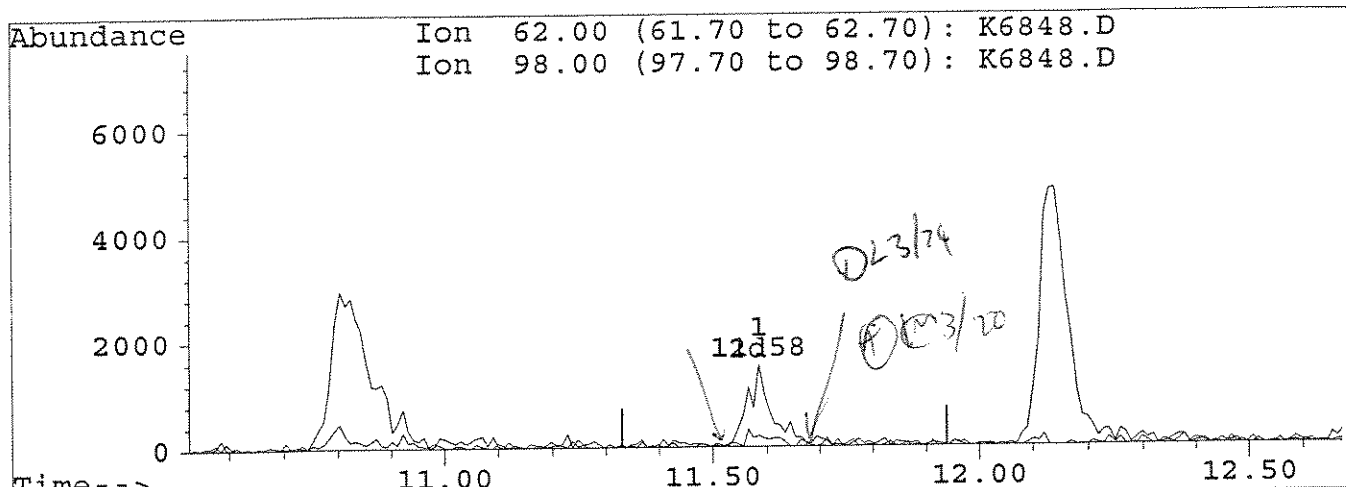
Ion	Exp%	Act%
75.00	100	100
110.00	33.70	29.75
77.00	31.10	31.55
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(49) 1,2-Dichloroethane
 11.58min 0.90ppb m
 response 4763

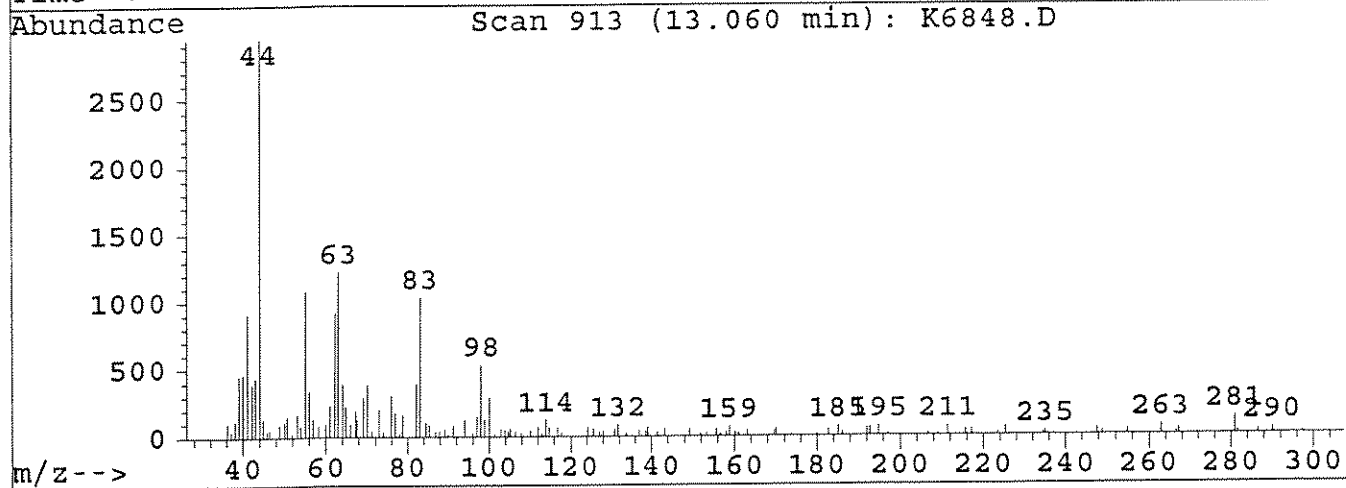
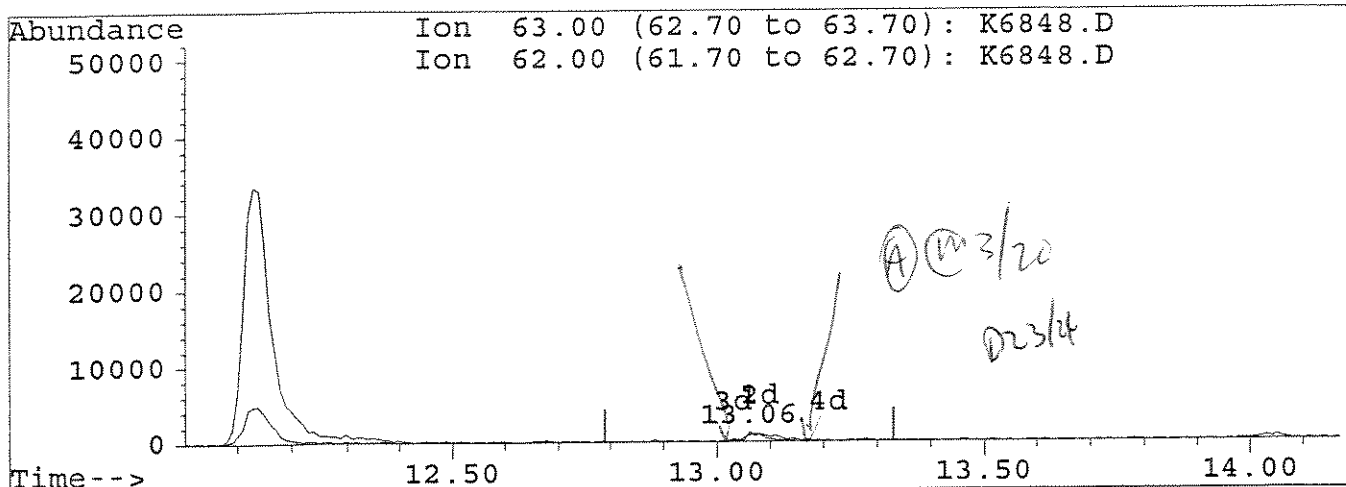
Ion	Exp%	Act%
62.00	100	100
98.00	13.00	9.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(54) 1,2-Dicloropropane (c)
 13.06min 0.84ppb m
 response 4607

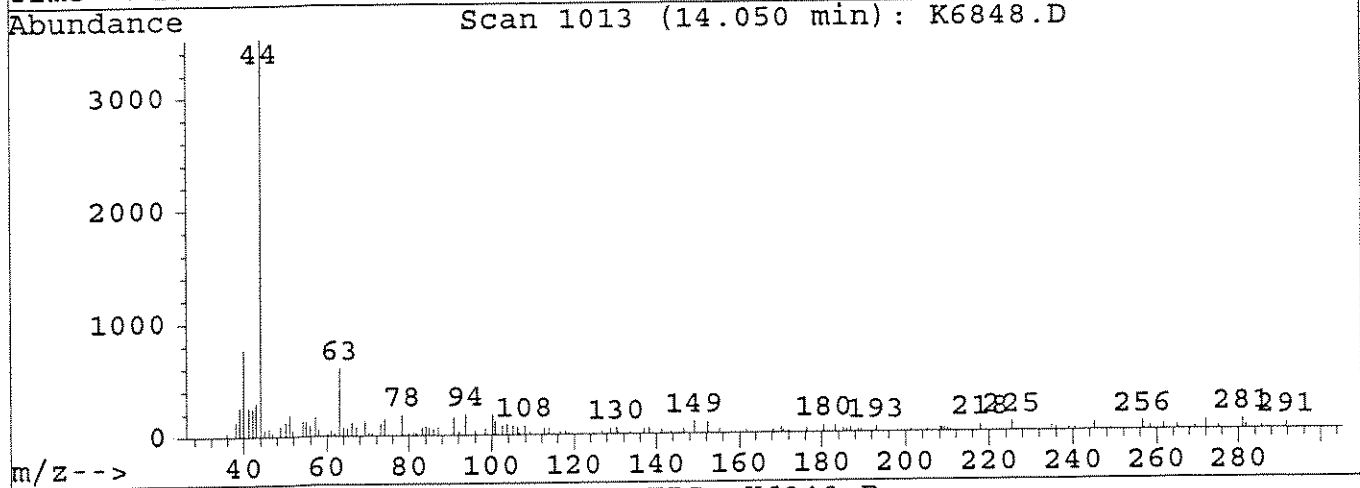
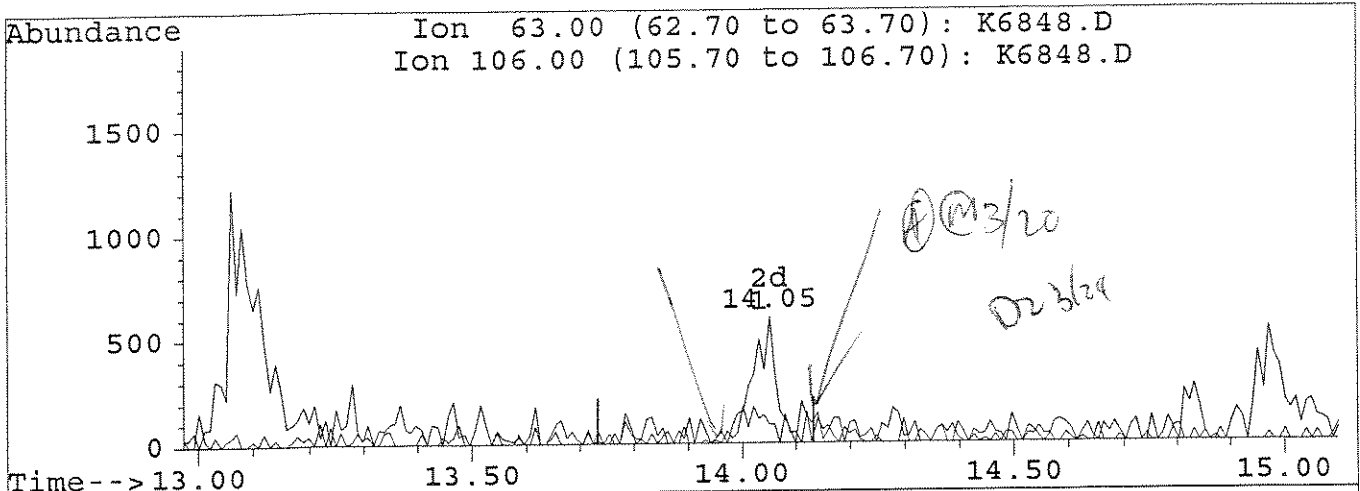
Ion	Exp%	Act%
63.00	100	100
62.00	76.90	74.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 08 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



(60) 2-Chloroethylvinyl Ether
 14.05min 3.32ppb m
 response 1817

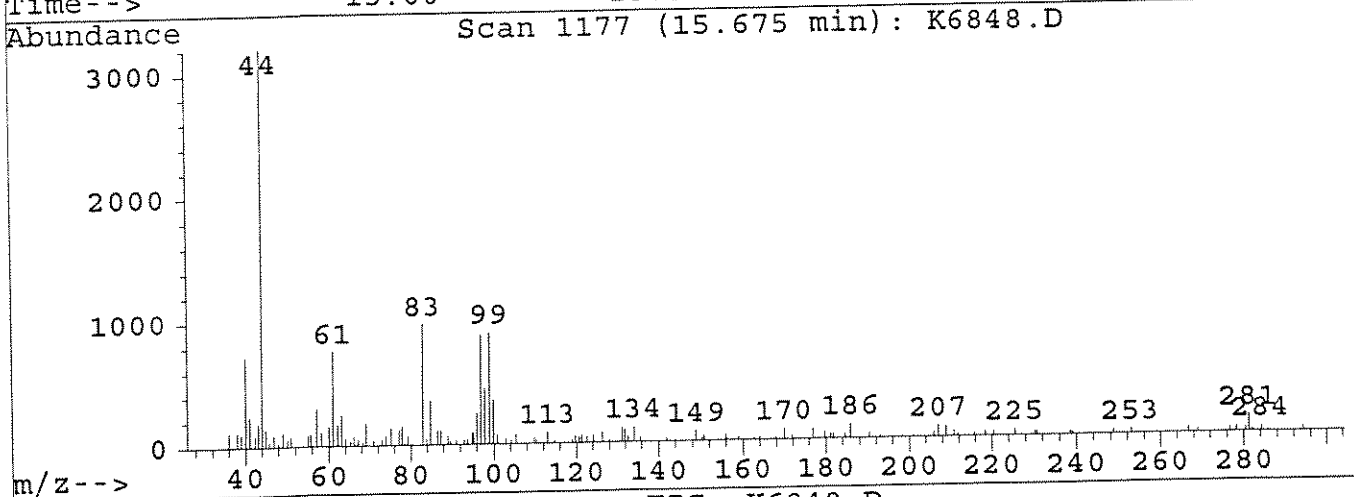
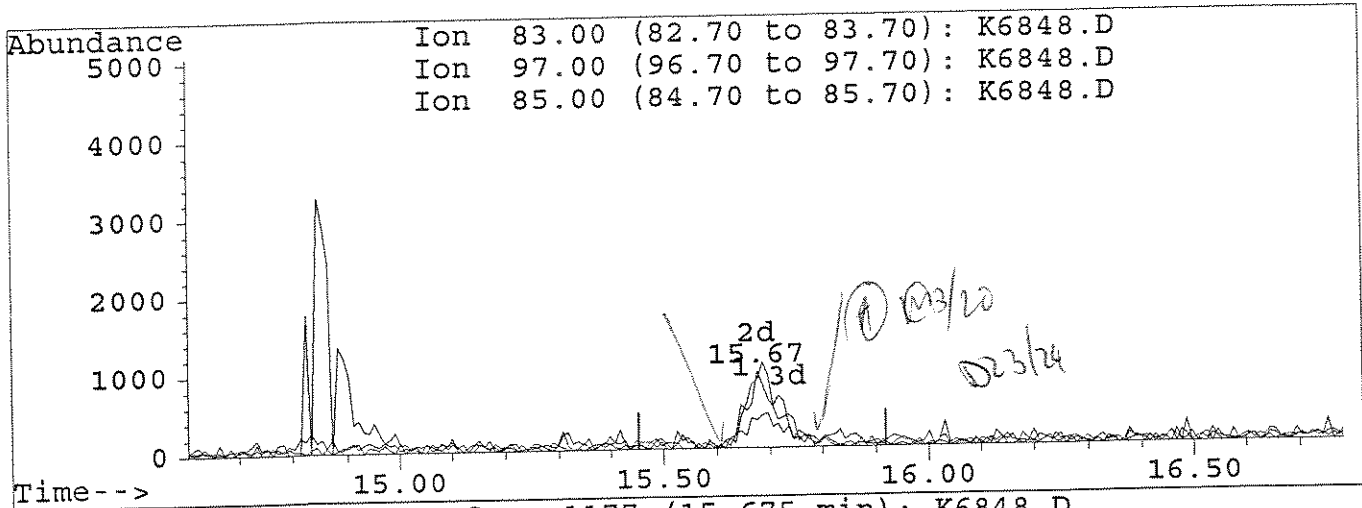
Ion	Exp%	Act%
63.00	100	100
106.00	27.60	11.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



(66) 1,1,2-Trichloroethane

15.67min 1.05ppb m

response 4036

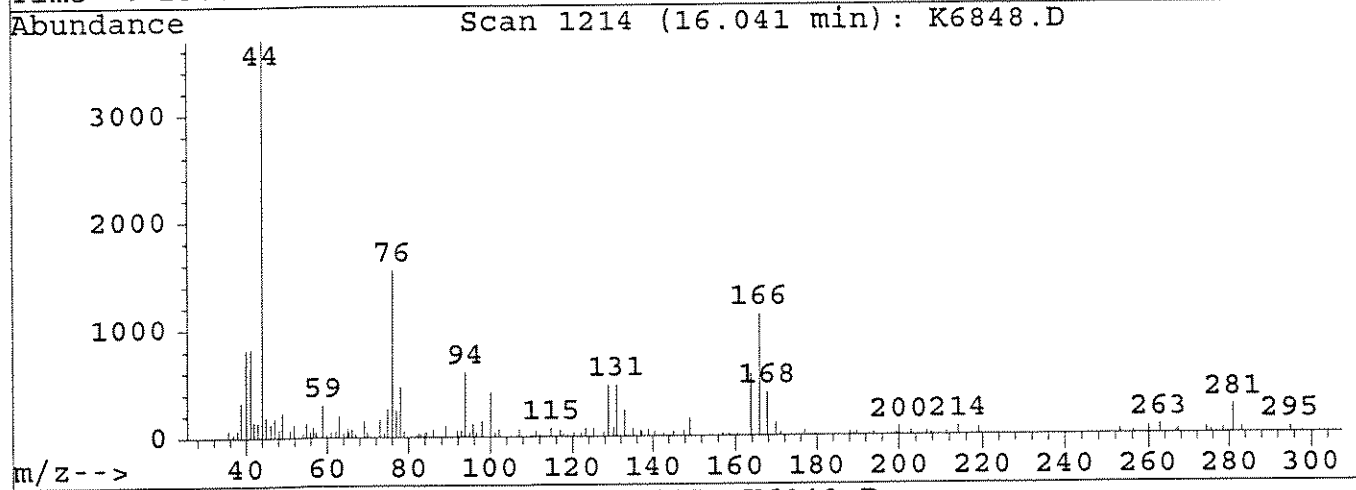
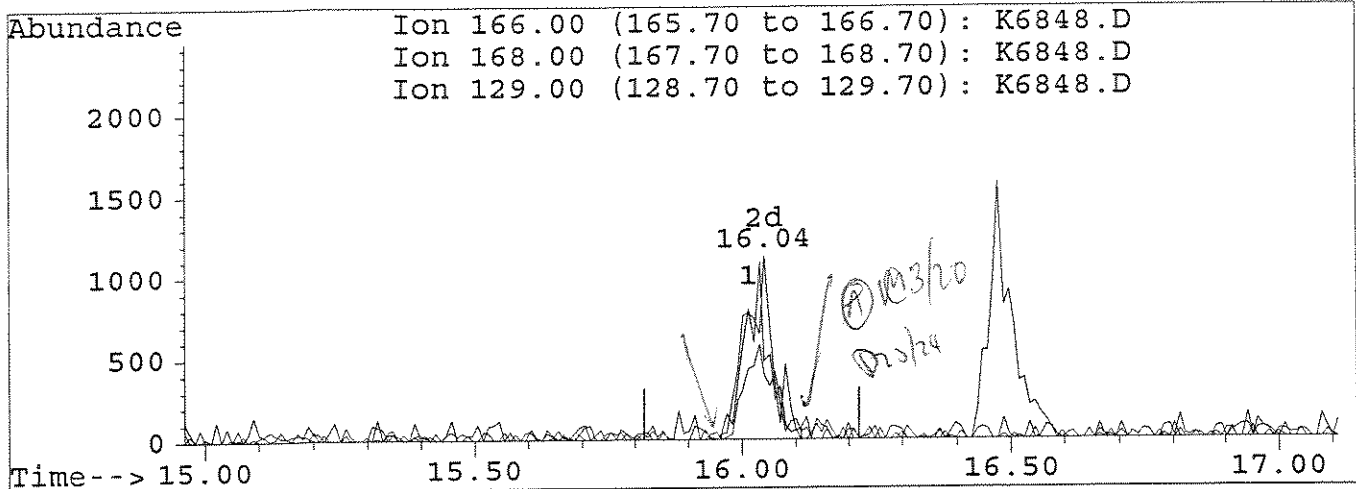
Ion	Exp%	Act%
83.00	100	100
97.00	110.00	90.24
85.00	65.10	36.49
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(70) Tetrachloroethene

16.04min 0.90ppb m

response 3938

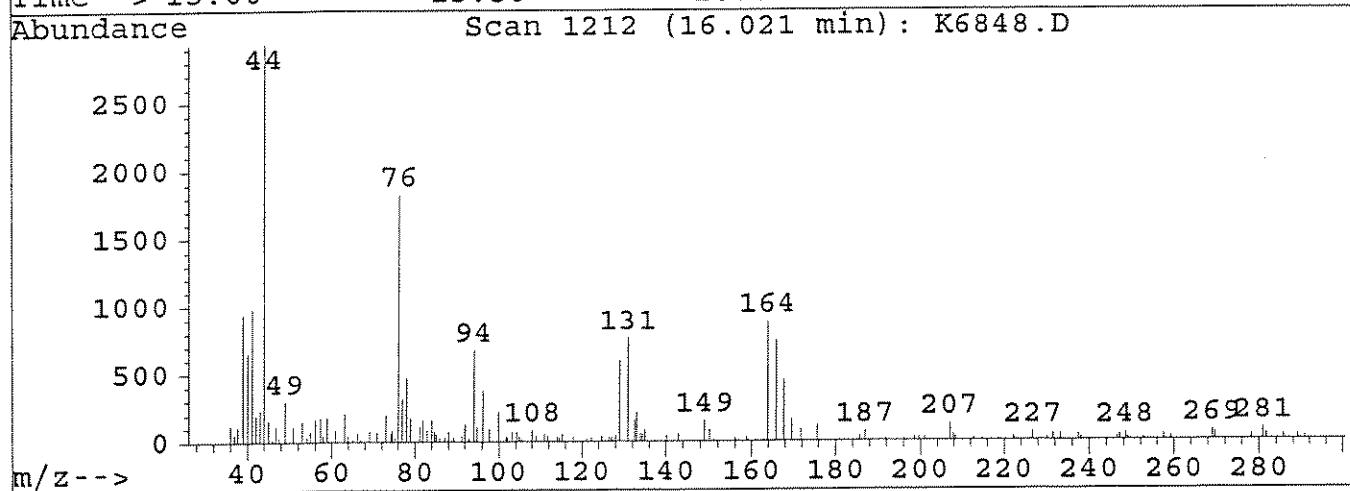
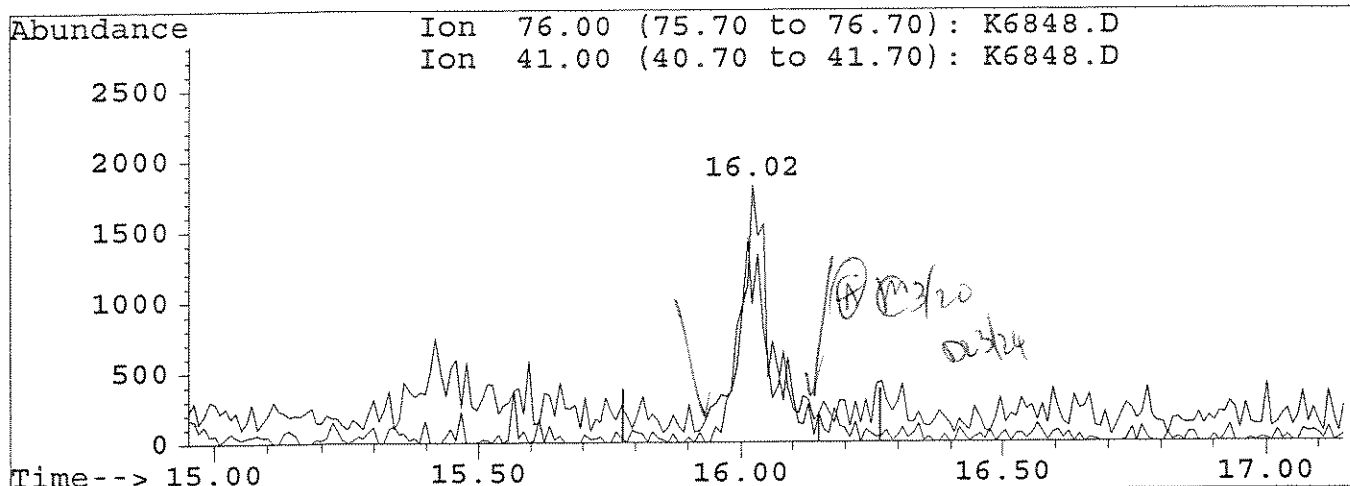
Ion	Exp%	Act%
166.00	100	100
168.00	49.90	35.58
129.00	72.60	42.41
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(72) 1,3-Dichloropropane

16.02min 0.86ppb m

response 7251

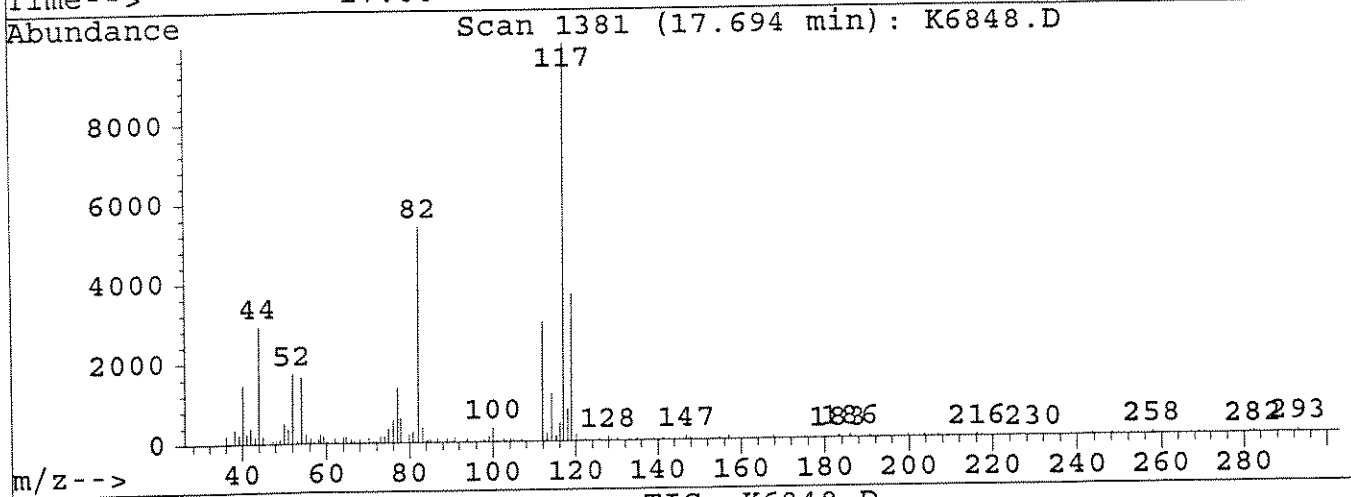
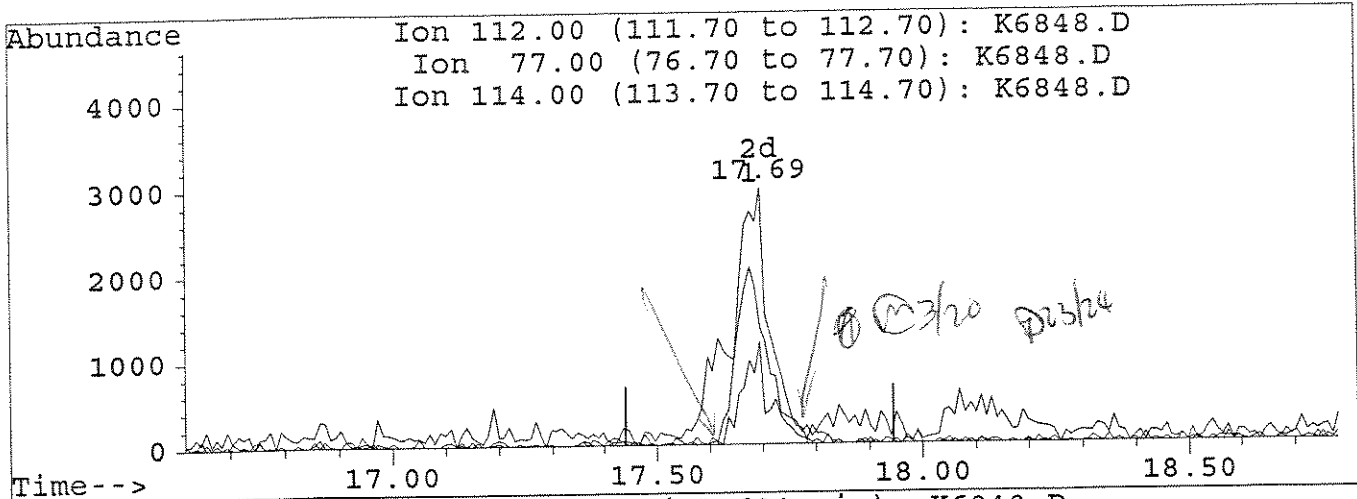
Ion	Exp%	Act%
76.00	100	100
41.00	59.60	53.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(75) Chlorobenzene (p)
 17.69min 0.95ppb m
 response 12079

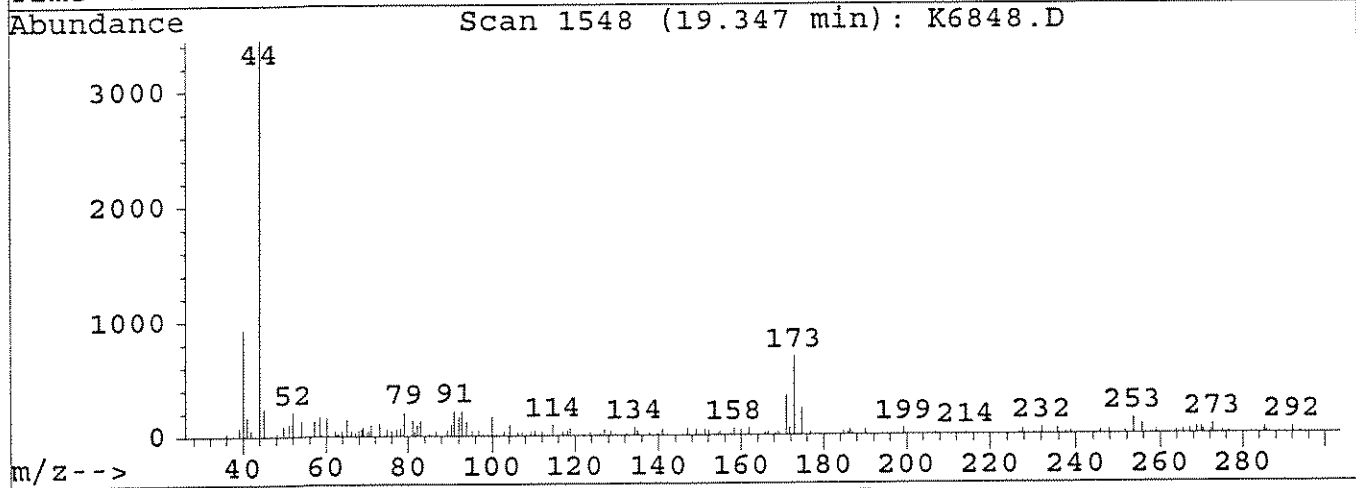
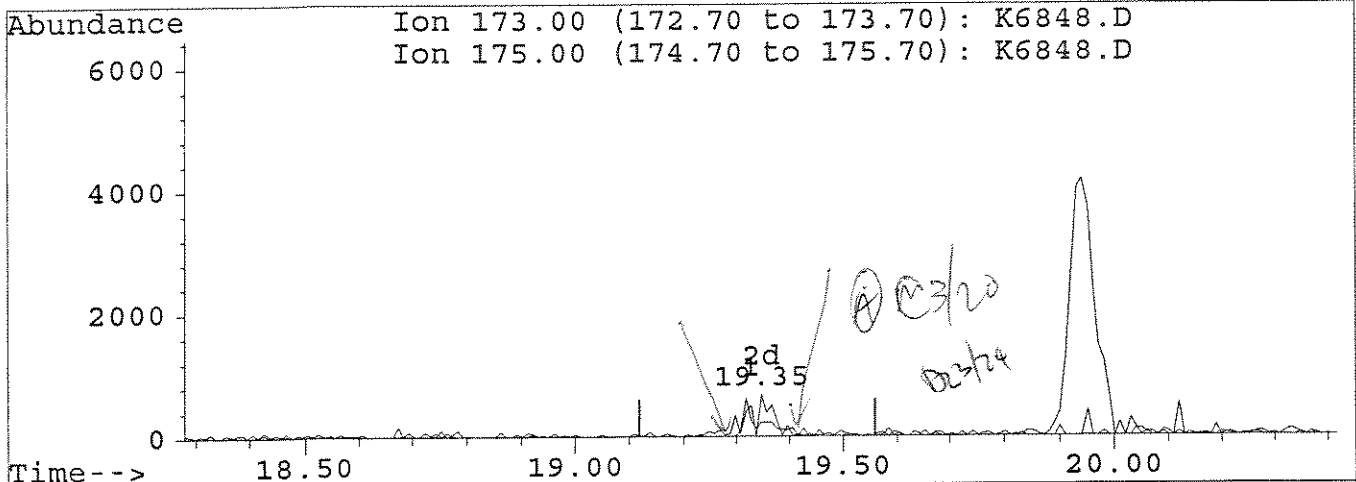
Ion	Exp%	Act%
112.00	100	100
77.00	60.20	45.77
114.00	31.40	39.88
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(81) Bromoform (p)
 19.35min 0.70ppb m
 response 2005

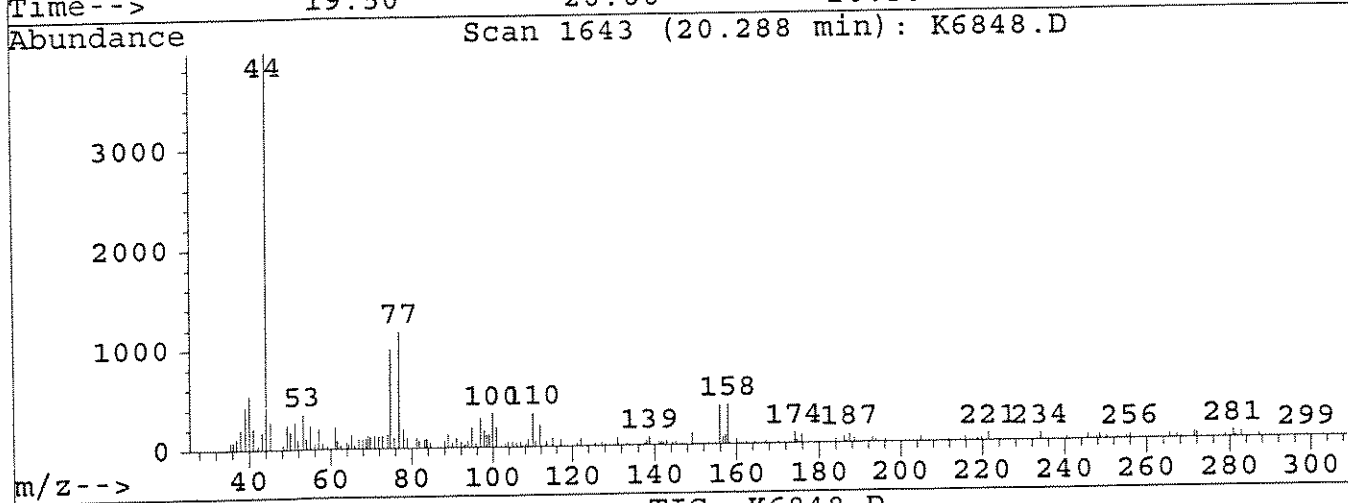
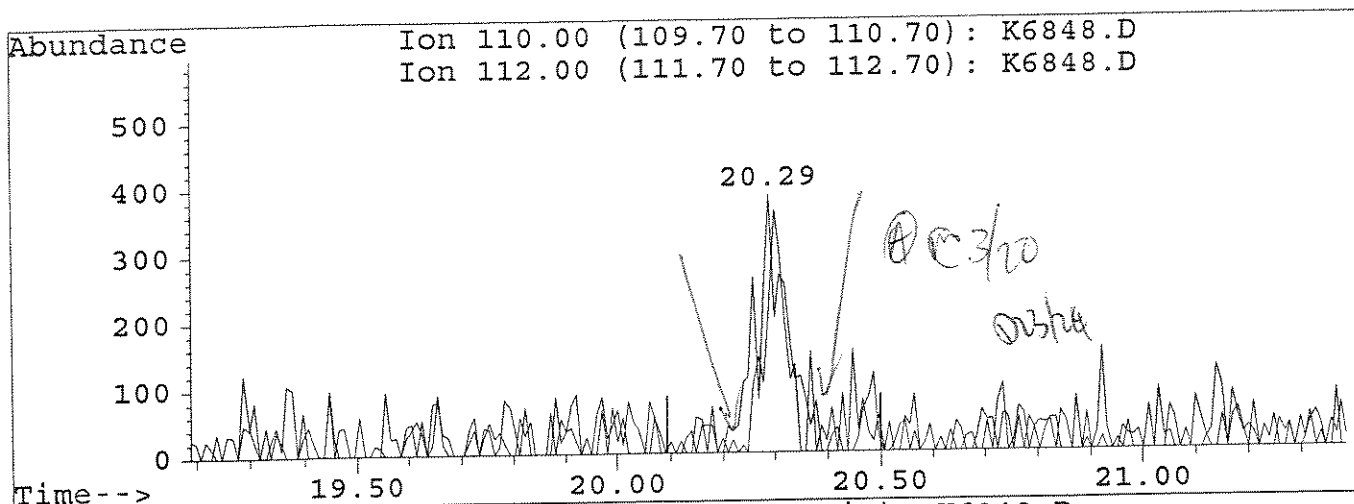
Ion	Exp%	Act%
173.00	100	100
175.00	46.20	34.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(86) 1,2,3-Trichloropropane

20.29min 1.06ppb m

response 1542

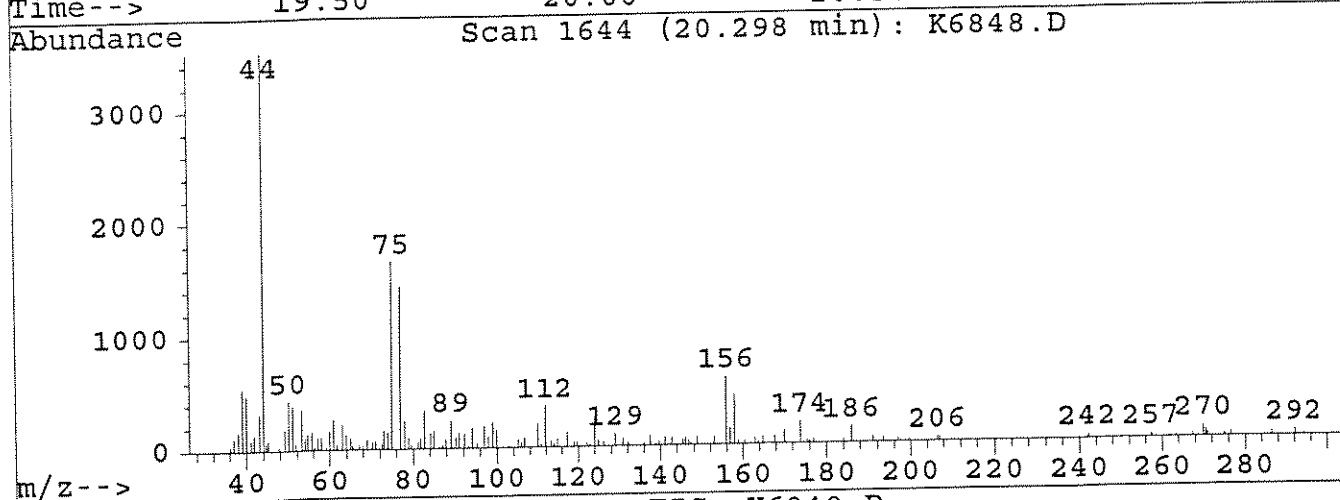
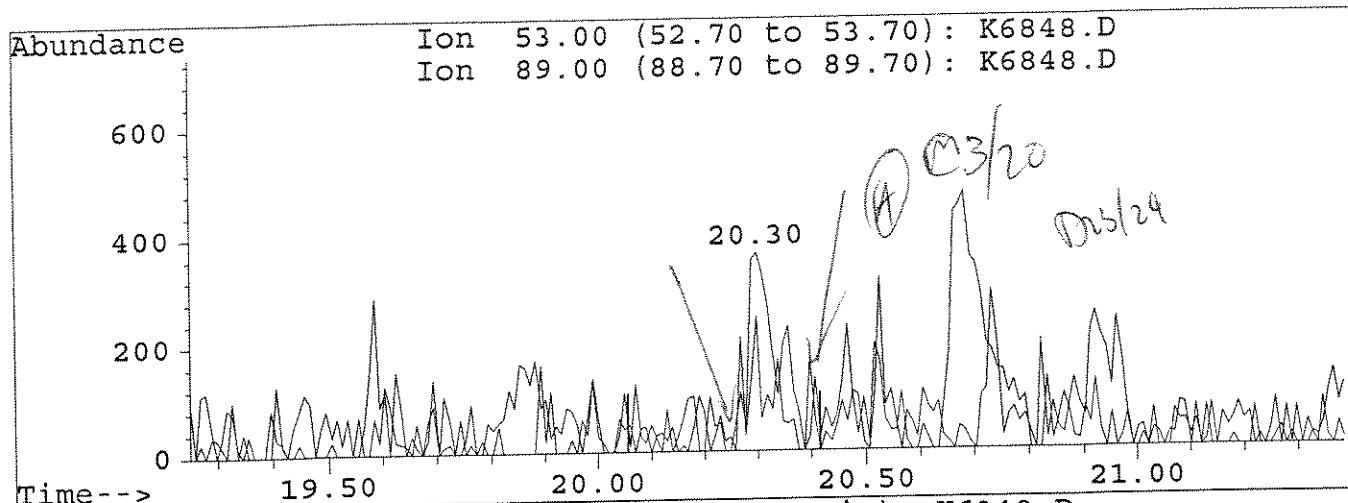
Ion	Exp%	Act%
110.00	100	100
112.00	58.70	64.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



(87) Trans-1,4-Dichloro-2-Butene
 20.30min 1.16ppb m
 response 1422

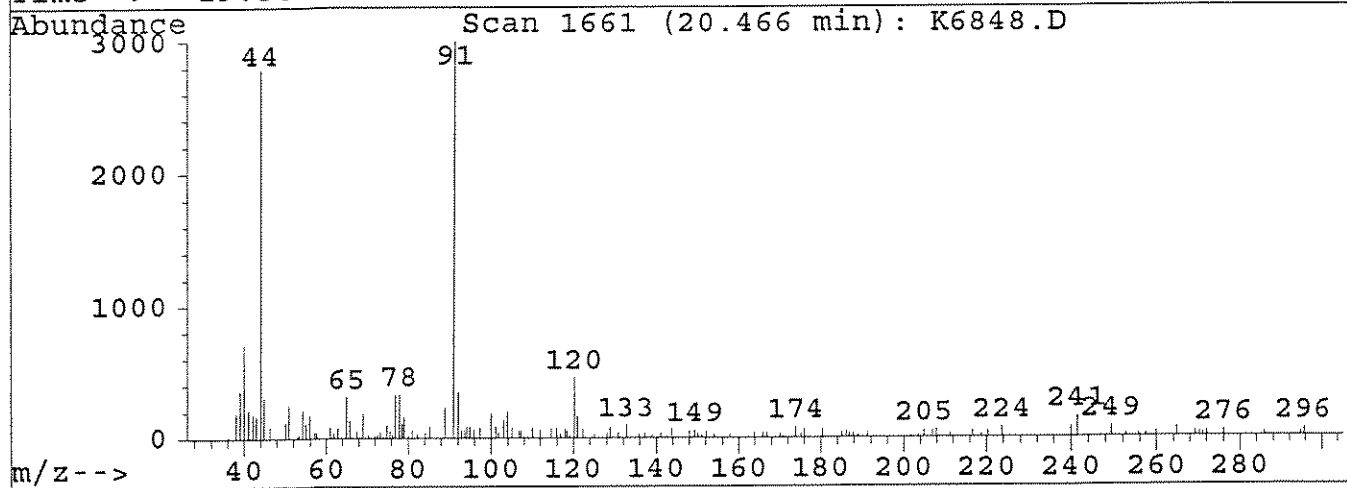
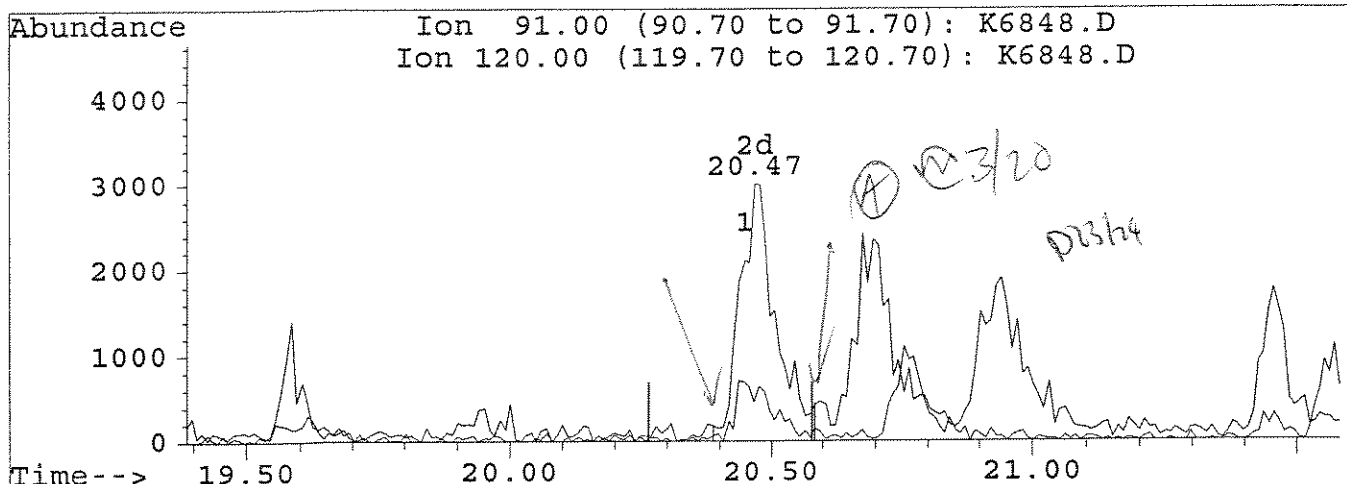
Ion	Exp%	Act%
53.00	100	100
89.00	65.50	67.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(88) n-Propylbenzene

20.47min 0.88ppb m

response 14376

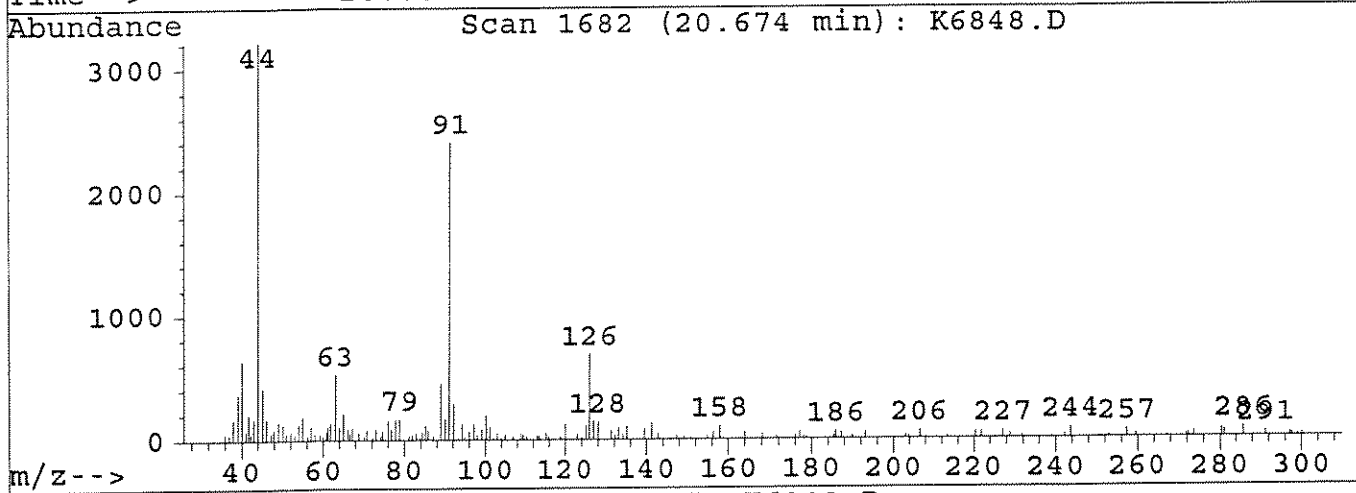
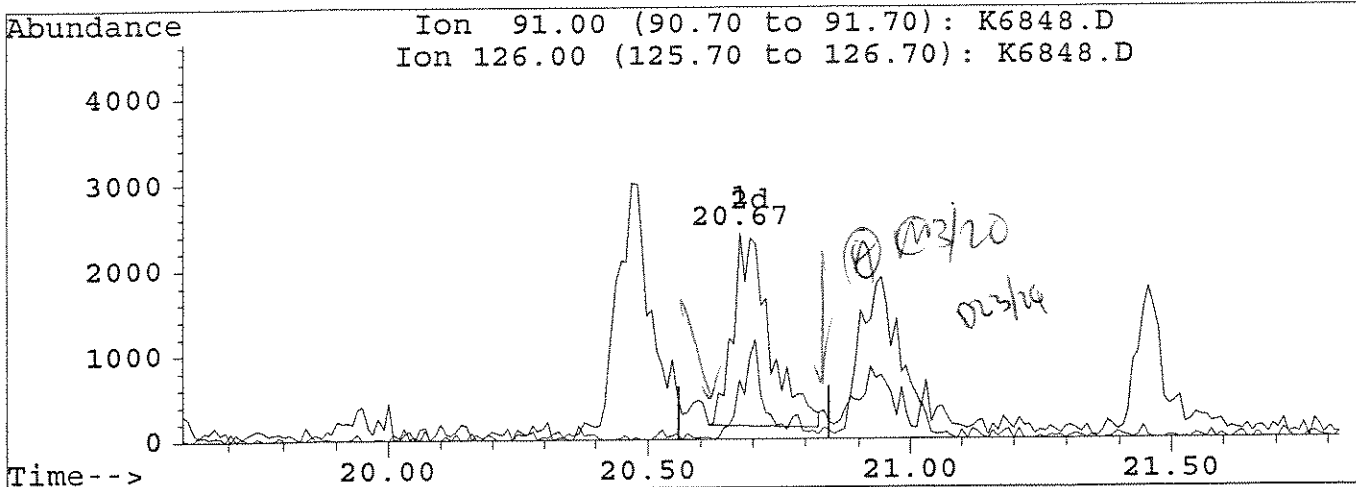
Ion	Exp%	Act%
91.00	100	100
120.00	21.10	15.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(91) 2-Chlorotoluene
 20.67min 0.94ppb m
 response 10831

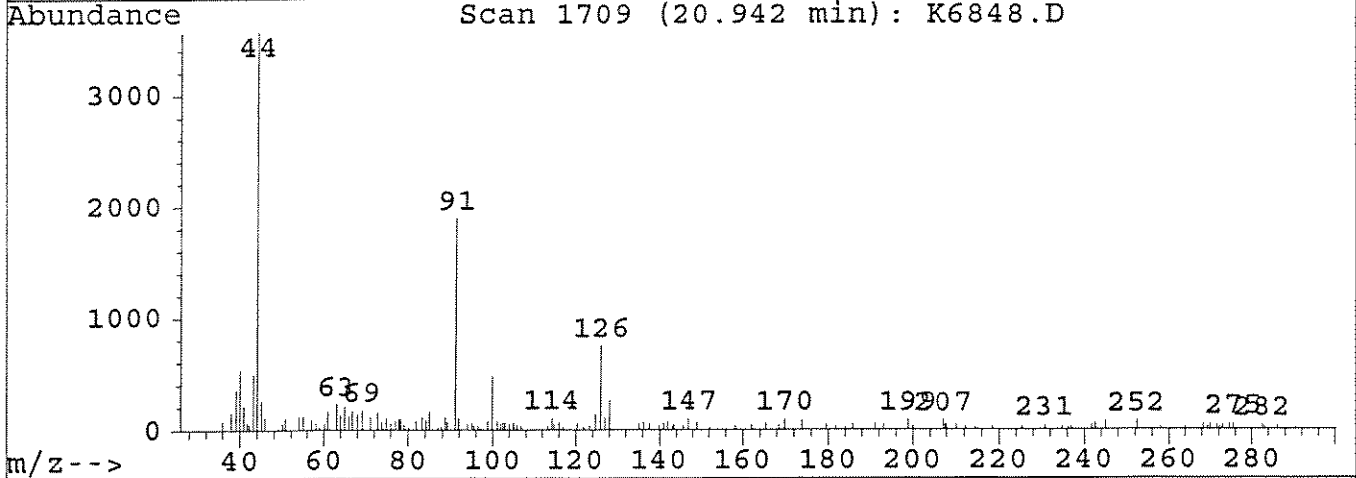
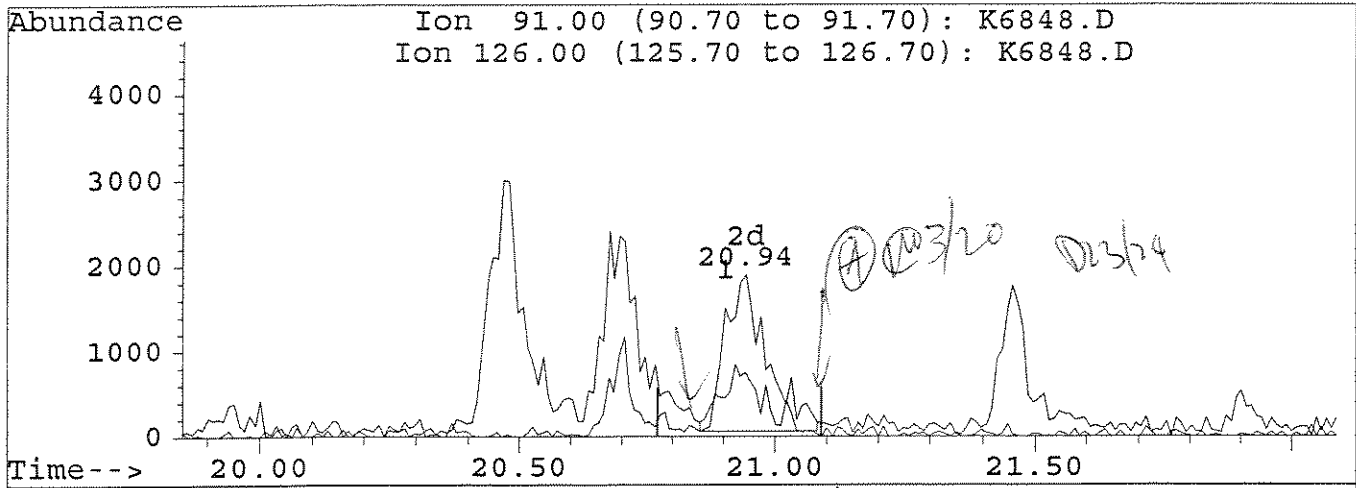
Ion	Exp%	Act%
91.00	100	100
126.00	33.50	28.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(92) 4-Chlorotoluene
 20.94min 1.04ppb m
 response 10492

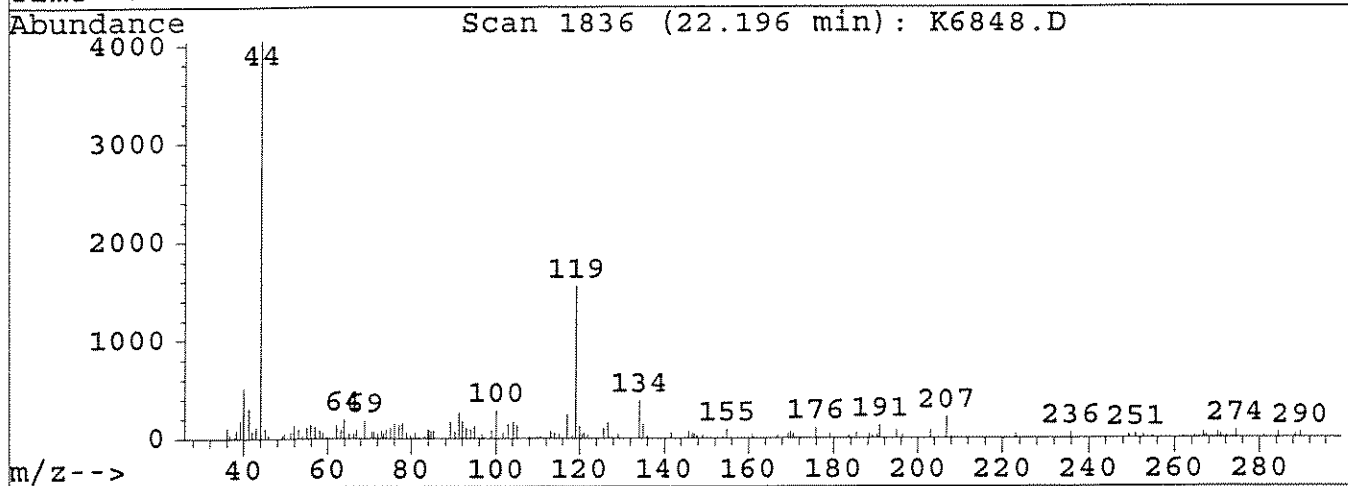
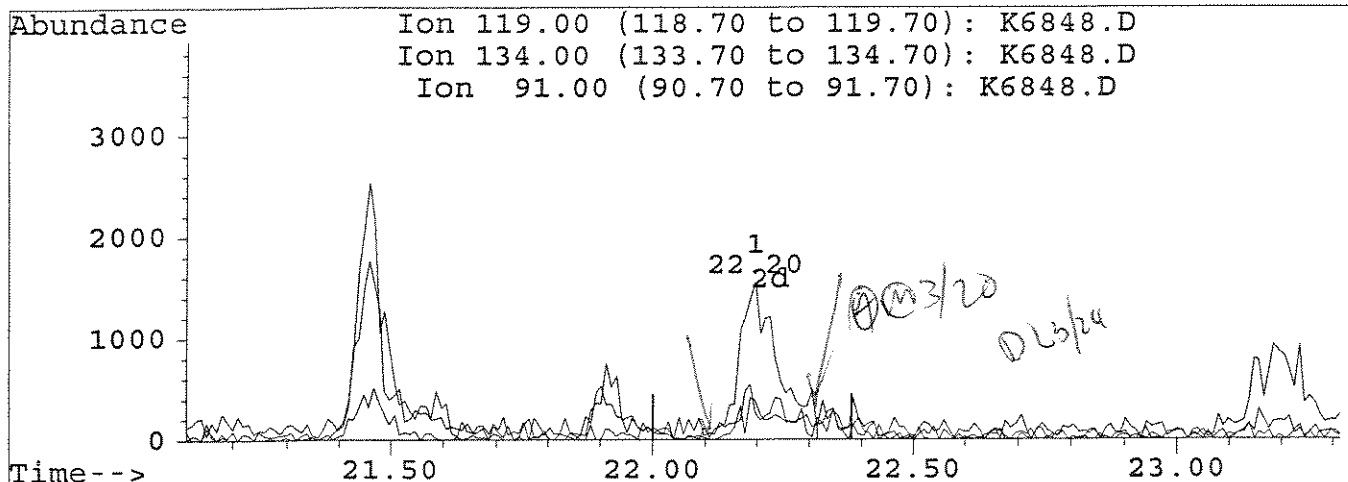
Ion	Exp%	Act%
91.00	100	100
126.00	33.30	39.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(96) p-Isopropyltoluene
 22.20min 0.98ppb m
 response 8098

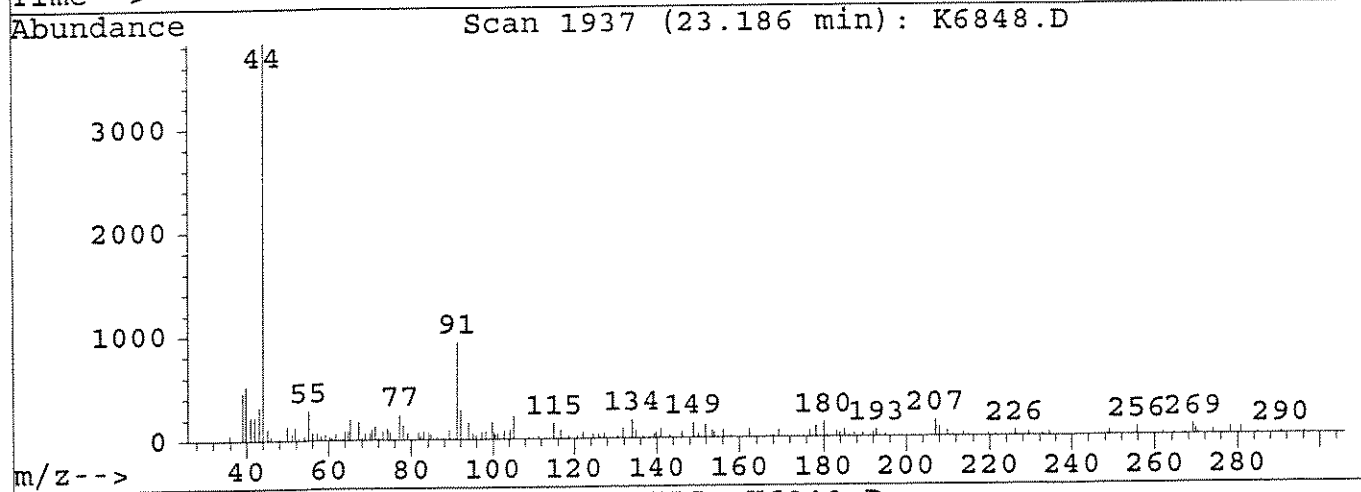
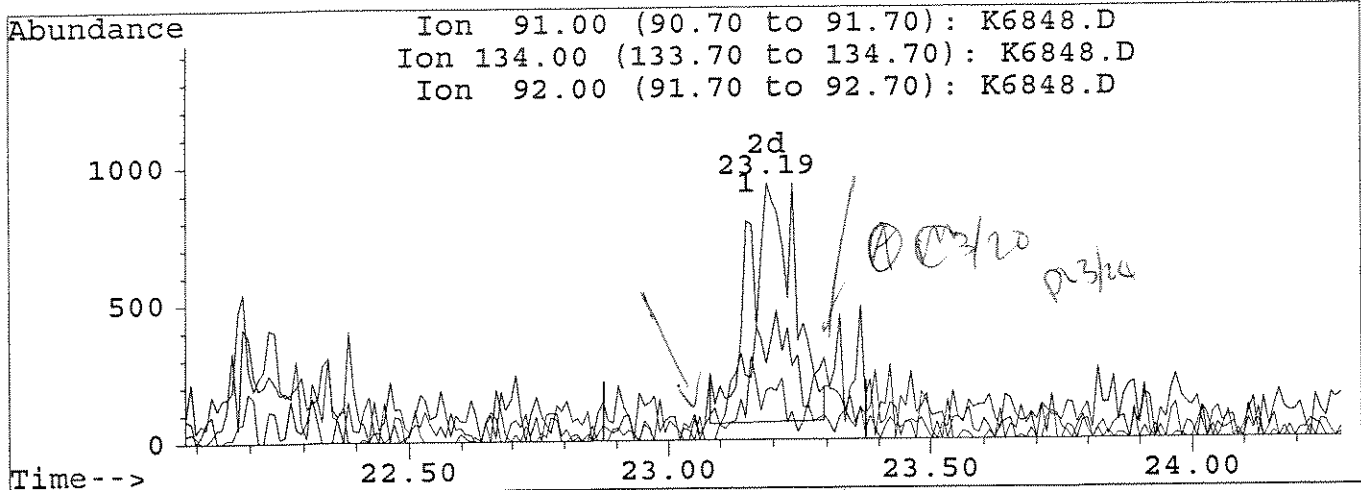
Ion	Exp%	Act%
119.00	100	100
134.00	26.50	24.73
91.00	22.40	17.04
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(99) n-Butylbenzene
 23.19min 0.82ppb m
 response 5310

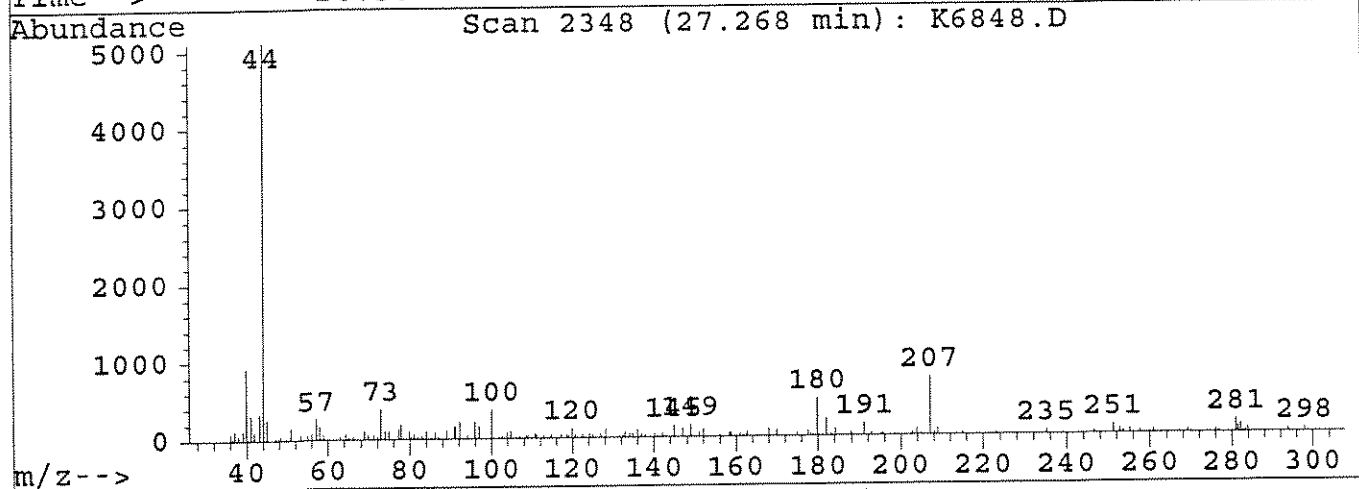
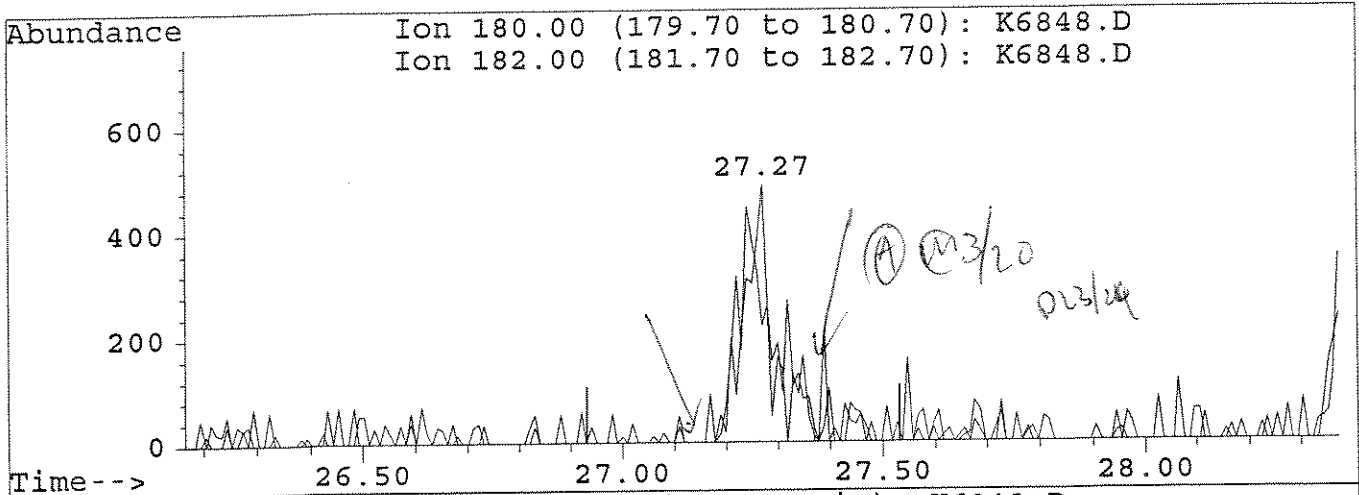
Ion	Exp%	Act%
91.00	100	100
134.00	23.40	19.29
92.00	59.40	29.47
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(103) 1,2,4-Tcbenzene
 27.27min 0.79ppb m
 response 1856

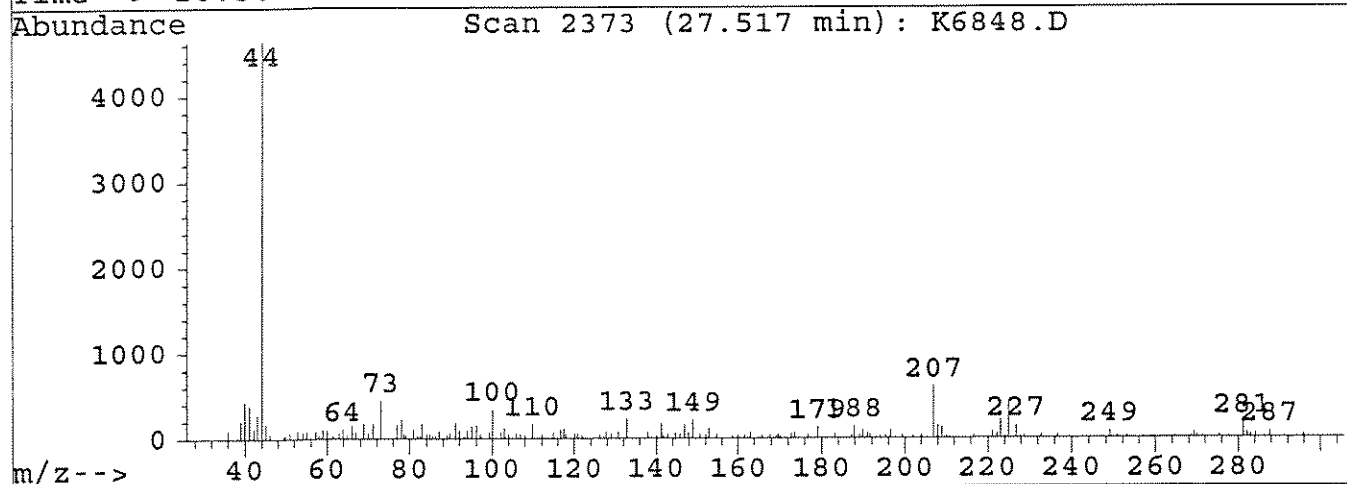
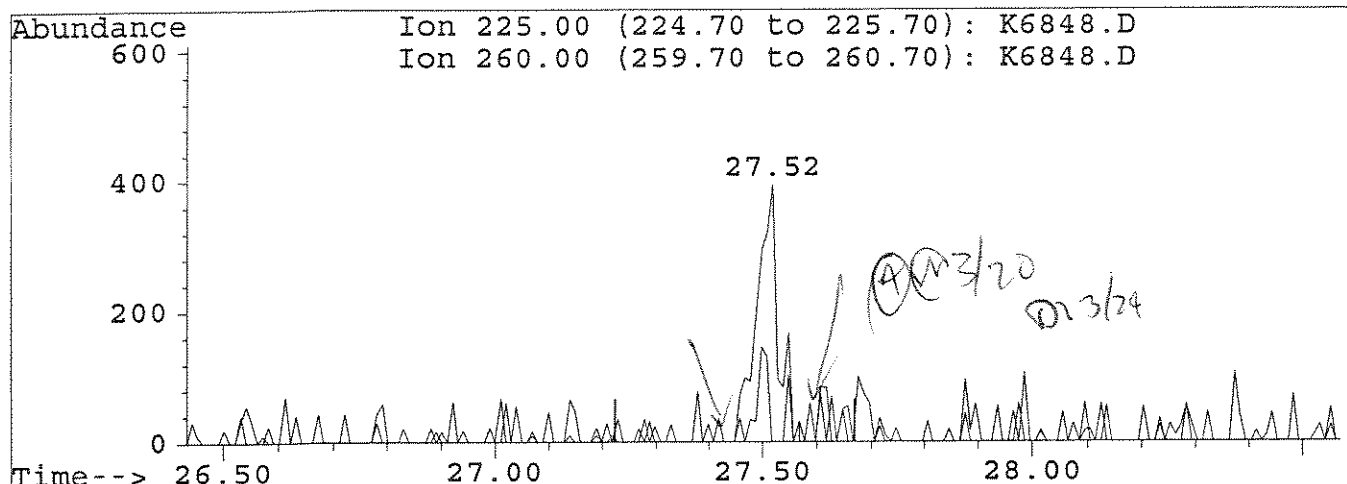
Ion	Exp%	Act%
180.00	100	100
182.00	92.70	45.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

(104) Hexachlorobt
 27.52min 0.86ppb m
 response 1109

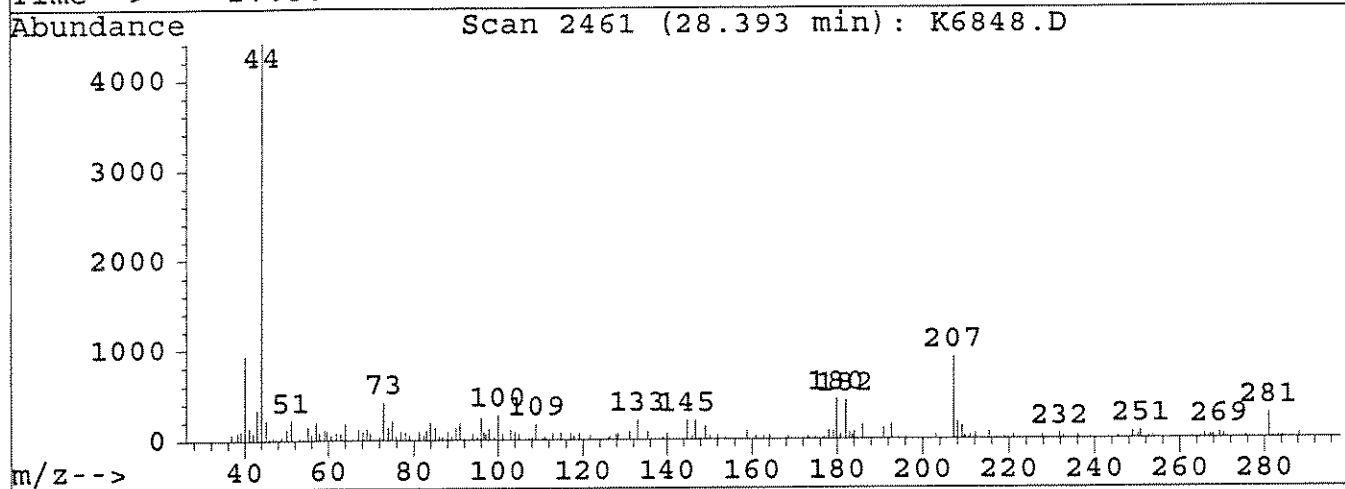
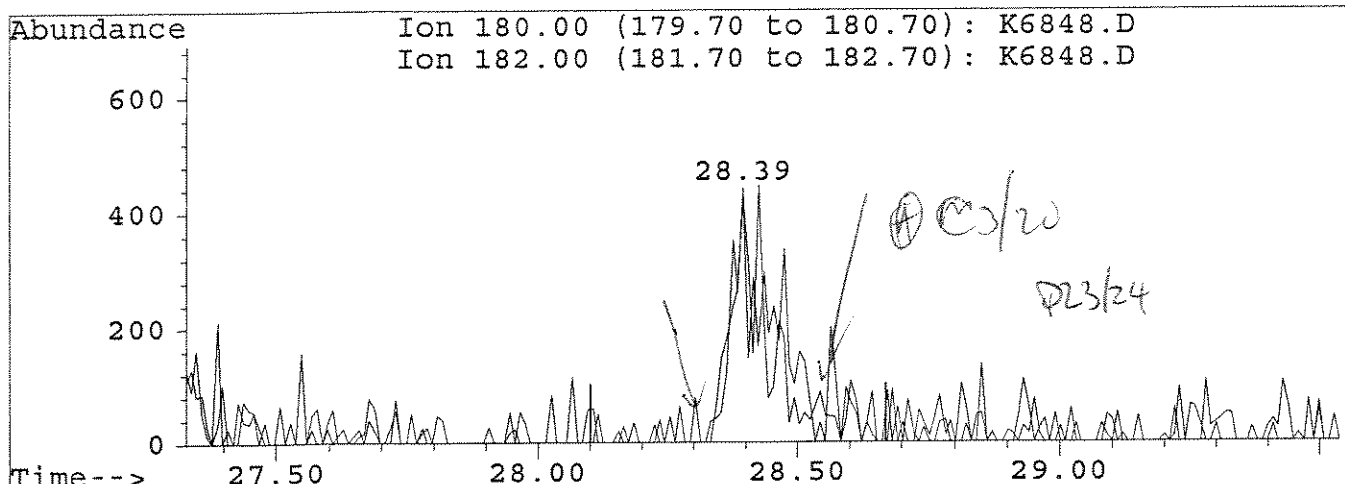
Ion	Exp%	Act%
225.00	100	100
260.00	34.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6848.D
 Acq On : 17 Mar 108 2:04 pm
 Sample : 1.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:25 19108

Vial: 2
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6848.D

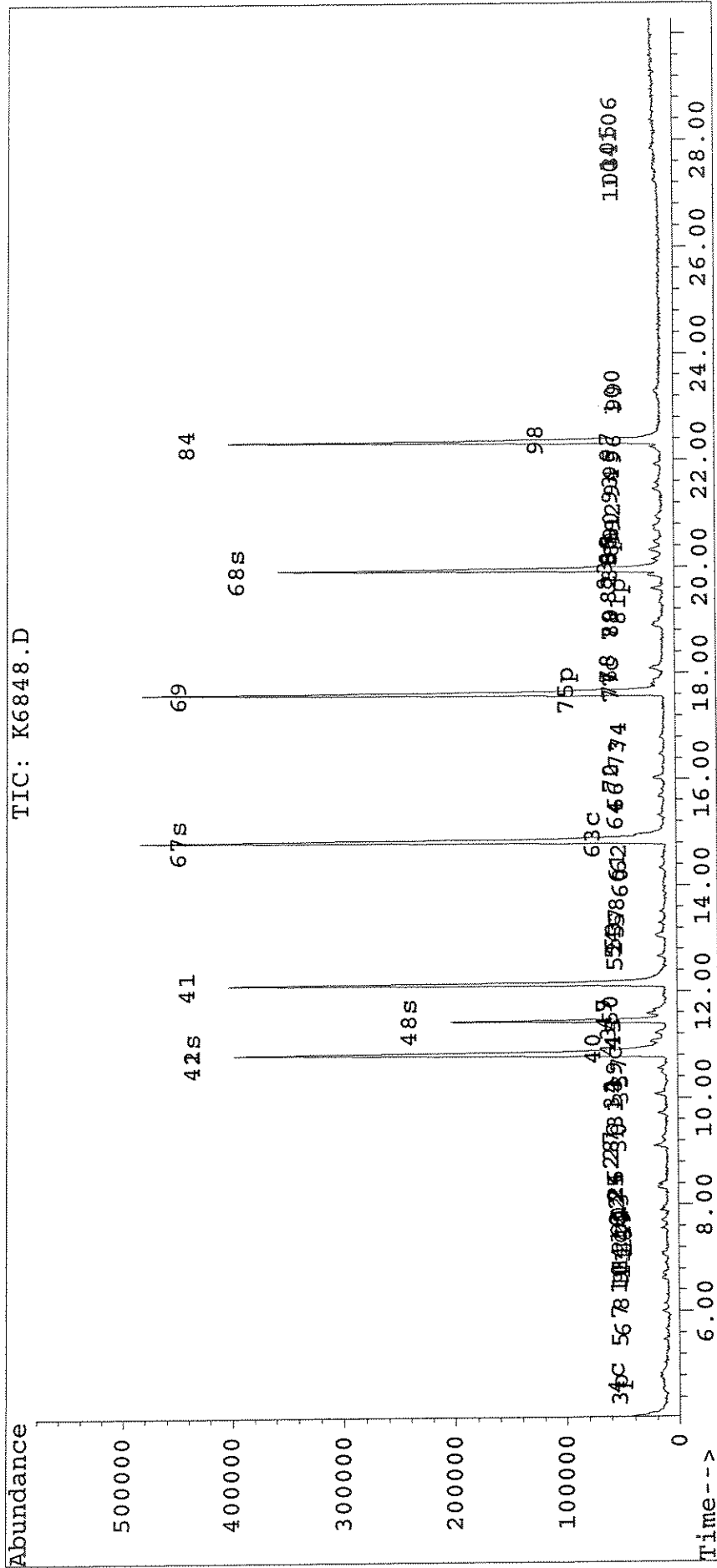
(106) 1,2,3-Tclbenzene
 28.39min 1.06ppb m
 response 2263

Ion	Exp%	Act%
180.00	100	100
182.00	92.20	96.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQDATA\MSVOA5\DATA\031708\K6848.D Vial: 2
Acq On : 17 Mar 108 2:04 pm Operator: M.MILLER
Sample : 1.0PPB ICAL STD Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Mar 18 10:25 19108

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa
Last Update : Tue Mar 18 13:23:34 2008
Response via : Multiple Level Calibration



Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

W
 3/20

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	10.82	168	352736	50.00	ppb	0.00
41) 1,4-Difluorobenzene	12.14	114	625647	50.00	ppb	0.00
69) d5-Chlorobenze	17.62	117	599106	50.00	ppb	0.00
84) d4-1,4-Dichlorobenzene	22.35	152	220549	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
42) surr4,Dibrflmethane	10.83	113	222997	53.22	ppb	106.43%
48) surr1,1,2-Dicethane	11.44	65	203580	55.06	ppb	110.11%
67) surr3,Toluene-d8	14.83	98	699189	51.50	ppb	103.01%
68) surr2,bfb	19.94	95	289997	56.65	ppb	113.31%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.11	85	5513	1.38	ppb	# 94
3) Chloromethane	4.52	50	8220	1.35	ppb	95
4) Vinyl Chloride	4.76	62	6777	1.22	ppb	89
5) Bromomethane	5.47	96	7300	2.26	ppb	96
6) Chloroethane	5.66	64	5669	1.51	ppb	# 83
7) Freon 21	6.01	67	15706	1.57	ppb	97
8) Trichlorofluoromethane	6.16	101	10131	1.92	ppb	95
9) Diethyl Ether	6.64	59	5427	1.40	ppb	81
10) Freon 123A	6.62	85	2964	1.43	ppb	85
11) Acrolein	6.89	56	5393	8.09	ppb	m 85
12) FREON 113	7.06	101	6659	1.67	ppb	94
13) Freon 123	6.72	85	5748	1.42	ppb	# 69
14) 1,1-Dicethene	7.10	96	6822	1.91	ppb	# 83
16) 2-propanol	7.28	45	7505	32.46	ppb	m 99
17) Iodomethane	7.42	142	5406	0.81	ppb	m 81
18) Carbon Disulfide	7.56	76	26432	1.68	ppb	# 88
19) Acetonitrile	7.61	41	4704	7.78	ppb	# 82
20) Allyl Chloride	7.71	41	13736	1.93	ppb	90
21) Methyl Acetate	7.70	43	7526	1.49	ppb	# 86
22) Methylene Chloride	7.91	84	8520	1.57	ppb	95
23) TBA	7.96	59	10376	29.36	ppb	# 70
24) Methyl-t-Butyl Ether	8.33	73	23003	1.96	ppb	94
25) Acrylonitrile	8.32	53	12659	6.75	ppb	96
26) trans-1,2-Dichloroethene	8.38	96	8322	1.77	ppb	# 94
27) DIPE	9.12	45	30724	1.66	ppb	88
28) 1,1-Dicethane	9.10	63	15313	1.73	ppb	94
29) Vinyl Acetate	9.13	86	862	1.51	ppb	# 1
30) 2-Chloro-1,3-butadiene	9.26	53	10949	1.77	ppb	98
31) ETBE	9.72	59	27149	1.77	ppb	# 90
32) 2,2-Dichloropropane	10.09	77	12081	2.15	ppb	96
34) cis-1,2-Dichloroethene	10.06	96	8472	1.67	ppb	# 78
35) Propionitrile	10.16	54	3590	5.81	ppb	# 68

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Methacrylonitrile	10.44	67	3832	1.96	ppb	m ² 62
37) Bromochloromethane	10.48	128	5536	2.02	ppb	# 78
38) Tetrahydrofuran	10.54	42	2360	1.78	ppb	92
39) Chloroform	10.56	83	14796	1.87	ppb	97
40) 1,1,1-Trichloroethane	10.94	97	11220	2.09	ppb	# 38
43) Cyclohexane	11.06	56	13913	1.75	ppb	95
44) Carbontetrachloride	11.25	117	8554	2.15	ppb	94
45) 1,1-Dichloropropene	11.22	75	12763	2.12	ppb	94
46) Iso-Butyl Alcohol	11.18	43	7604	44.83	ppb	m ² 81
47) Benzene	11.58	78	32999	1.84	ppb	92
49) 1,2-Dichloroethane	11.57	62	10174	1.99	ppb	# 88
50) TAME	11.65	73	25931	2.06	ppb	94
51) N-Heptane	11.93	43	7639	1.62	ppb	# 62
52) Trichloroethene	12.66	95	7720	1.76	ppb	87
53) Methylcyclohexane	13.05	55	10307	1.94	ppb	# 93
54) 1,2-Diclpropane	13.08	63	9200	1.73	ppb	90
55) Methyl Methacrylate	13.18	69	5392	1.68	ppb	m ² 94
56) 1,4-Dioxane	13.27	88	1001	29.11	ppb	# 33
57) Dibromomethane	13.29	93	6213	2.01	ppb	98
58) Bromodichloromethane	13.50	83	10510	1.95	ppb	# 82
59) 2-Nitropropane	13.90	41	3860	4.40	ppb	m 96
60) 2-Chloroethylvinyl Ether	14.03	63	3543	6.67	ppb	m ² 99
61) cis-1,3-Dichloropropene	14.31	75	15482	1.95	ppb	# 90
62) 4-Methyl-2-Pentanone	14.52	43	7291	1.50	ppb	# 77
63) Toluene	14.97	91	35093	1.99	ppb	99
64) trans-1,3-Dichloropropene	15.30	75	13177	1.95	ppb	# 89
65) Ethyl Methacrylate	15.40	69	9554	1.64	ppb	m ² 95
66) 1,1,2-Trichloroethane	15.67	83	7988	2.14	ppb	# 91
70) Tetrachloroethene	16.03	166	8546	1.96	ppb	# 79
72) 1,3-Dichloropropene	16.02	76	16069	1.92	ppb	# 79
73) Dibromochloromethane	16.48	129	10243	2.15	ppb	83
74) 1,2-Dibromoethane	16.78	107	7629	1.57	ppb	83
75) Chlorobenzene	17.68	112	23472	1.86	ppb	# 92
76) 1,1,1,2-Tetrachloroethane	17.78	131	8827	2.04	ppb	# 84
77) Ethylbenzene	17.85	91	36003	1.85	ppb	99
78) (m+p)Xylene	18.08	106	22286	3.33	ppb	92
79) o-Xylene	18.89	106	13249	1.96	ppb	# 71
80) Styrene	18.93	104	19577	1.74	ppb	m 98
81) Bromoform	19.34	173	5040	1.77	ppb	m ² 100
82) Isopropylbenzene	19.59	105	30765	1.87	ppb	98
83) Cyclohexanone	19.85	55	28738	40.95	ppb	96
85) 1,1,2,2-Tetrachloroethane	20.14	83	12218	2.19	ppb	# 98
86) 1,2,3-Trichloropropane	20.29	110	3142	2.13	ppb	# 67
87) Trans-1,4-Dichloro-2-Buten	20.28	53	2572	2.07	ppb	m ² 67

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
88) n-Propylbenzene	20.45	91	30850	1.87	ppb	98
89) Bromobenzene	20.32	156	8949	1.91	ppb #	70
90) 1,3,5-Trimethylbenzene	20.76	105	16038	1.91	ppb #	84
91) 2-Chlorotoluene	20.69	91	23594	2.04	ppb #	85
92) 4-Chlorotoluene	20.91	91	15319	1.50	ppb	98
93) tert-Butylbenzene	21.45	119	17672	2.09	ppb	89
94) 1,2,4-Trimethylbenzene	21.57	105	15304	2.01	ppb #	84
95) sec-Butylbenzene	21.91	105	21715	1.89	ppb #	87
96) p-Isopropyltoluene	22.18	119	15670	1.87	ppb #	76
97) 1,3-Dclbenz	22.24	146	14117	1.95	ppb #	86
98) 1,4-Dclbenz	22.40	146	13369	1.95	ppb #	83
99) n-Butylbenzene	23.15	91	11469	1.76	ppb m	82
100) 1,2-Dclbenz	23.28	146	12876	1.87	ppb m	95
101) 1,2-Dibromo-3-chloropropan	25.10	157	1622	1.75	ppb m	71
103) 1,2,4-Tcbenzene	27.23	180	4136	1.74	ppb #	63
104) Hexachlorobt	27.51	225	2025	1.56	ppb m	81
105) Naphthalen	27.83	128	11175	1.96	ppb #	89
106) 1,2,3-Tclbenzene	28.41	180	4864	2.24	ppb m	83

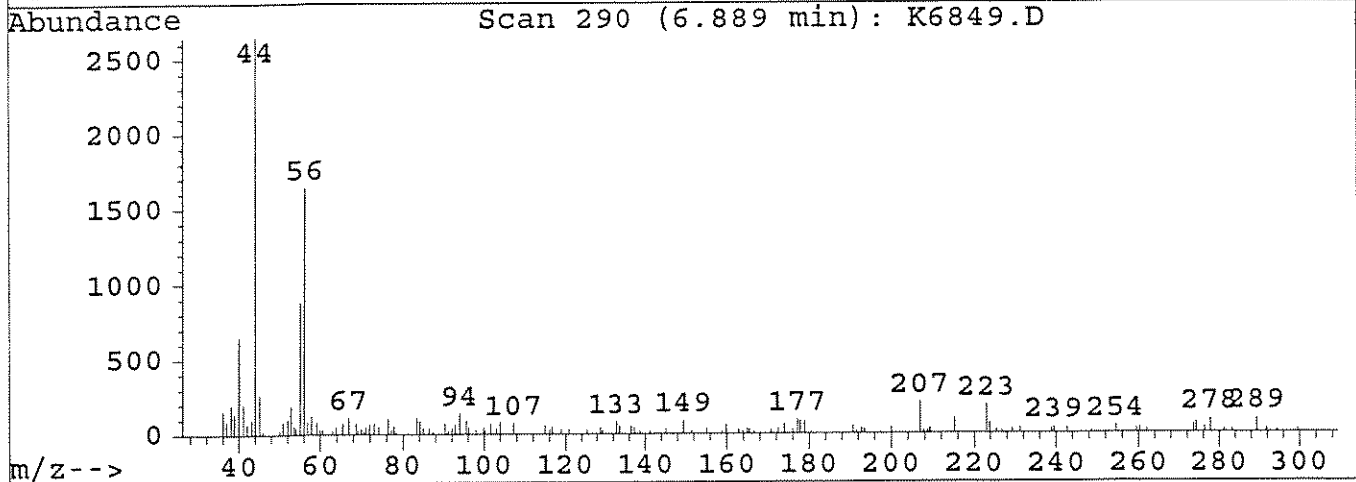
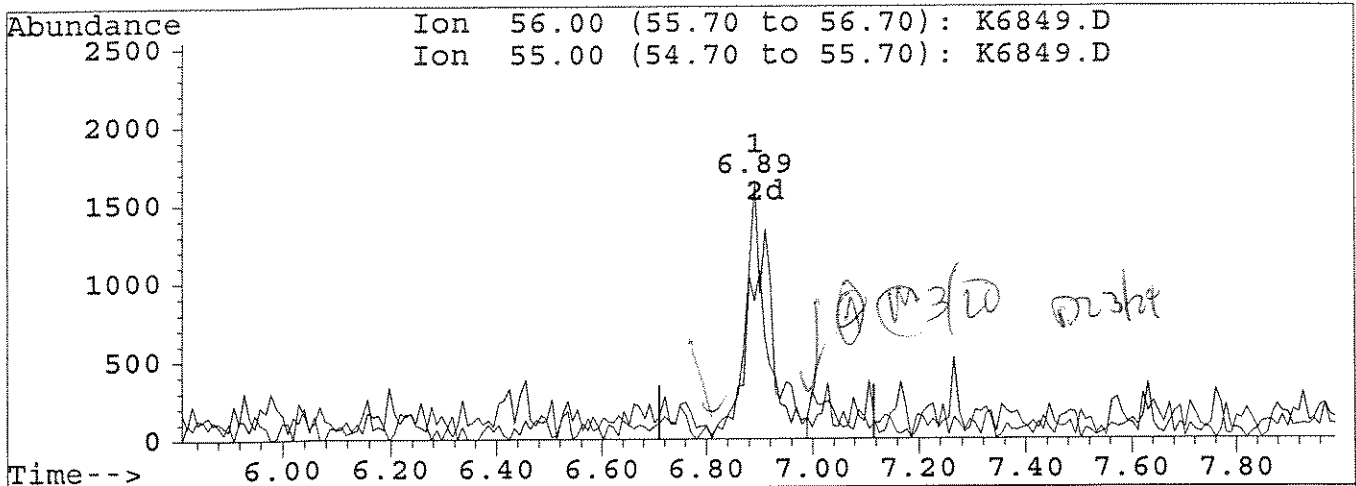
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(11) Acrolein
 6.89min 8.09ppb m
 response 5393

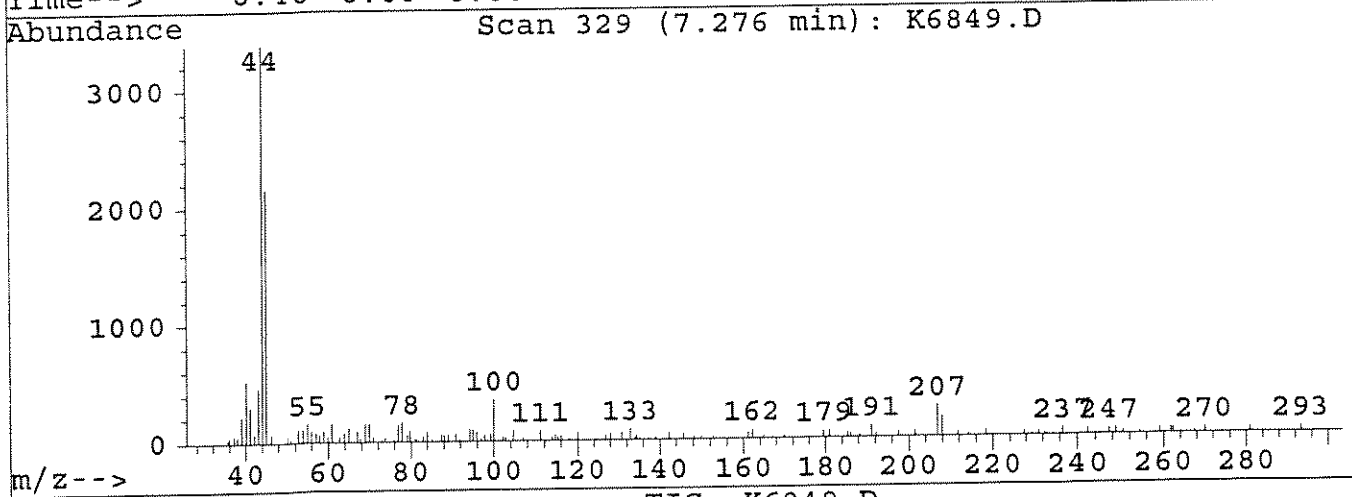
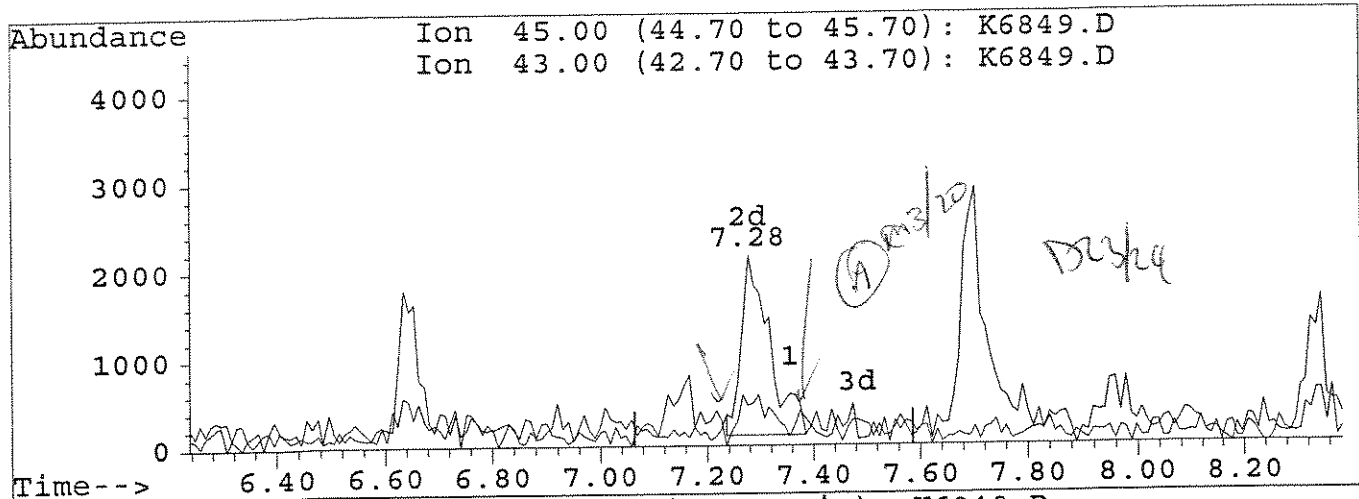
Ion	Exp%	Act%
56.00	100	100
55.00	65.30	53.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



(16) 2-propanol
 7.28min 32.46ppb m
 response 7505

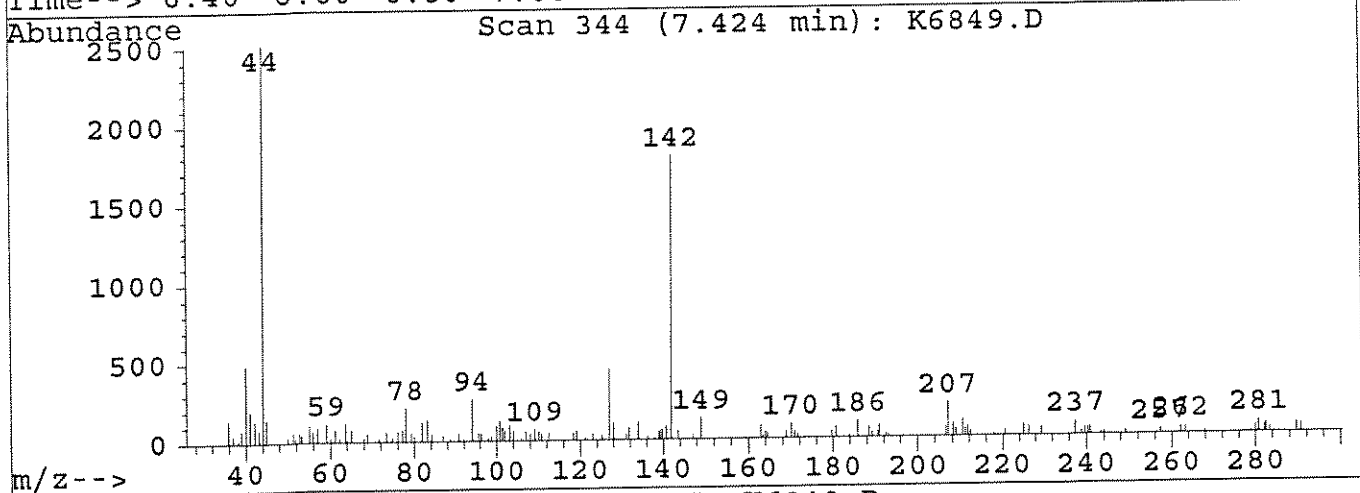
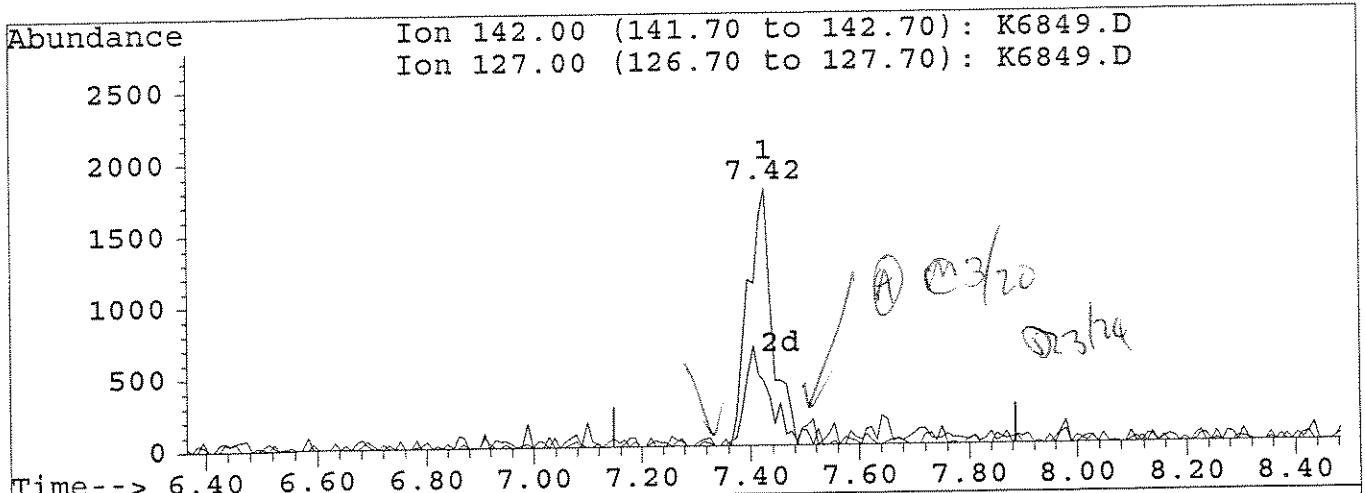
Ion	Exp%	Act%
45.00	100	100
43.00	16.50	21.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(17) Iodomethane
 7.42min 0.81ppb m
 response 5406

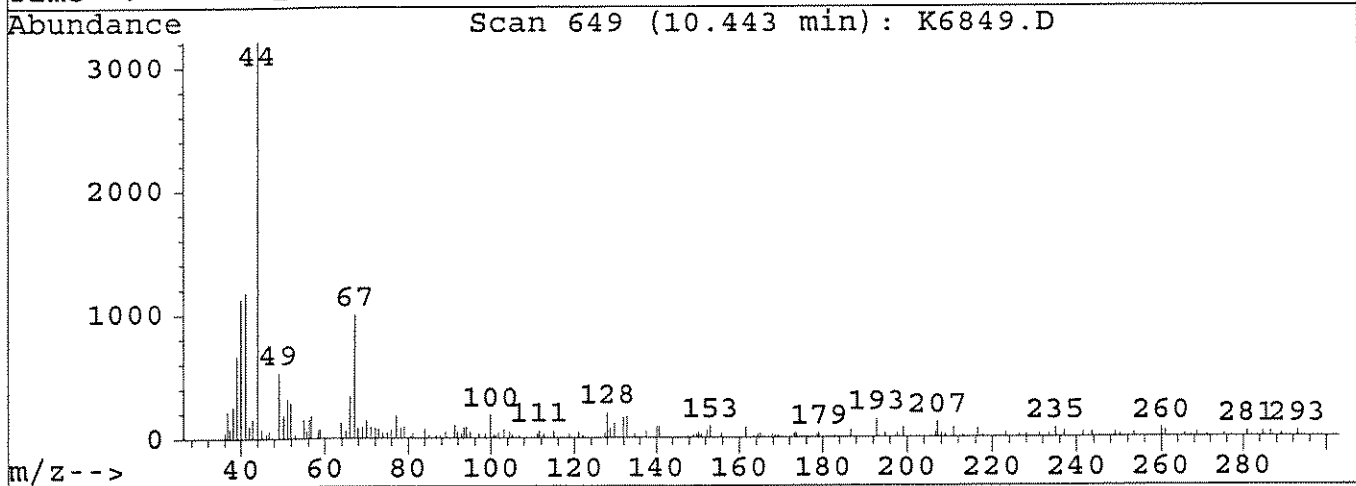
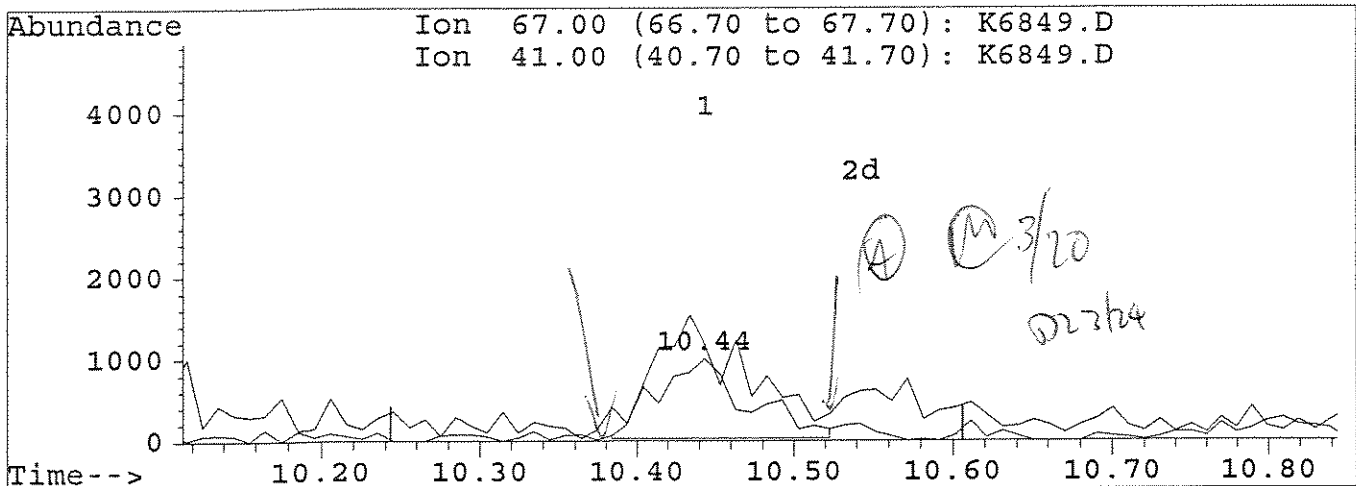
Ion	Exp%	Act%
142.00	100	100
127.00	35.90	24.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(36) Methacrylonitrile

10.44min 1.96ppb m

response 3832

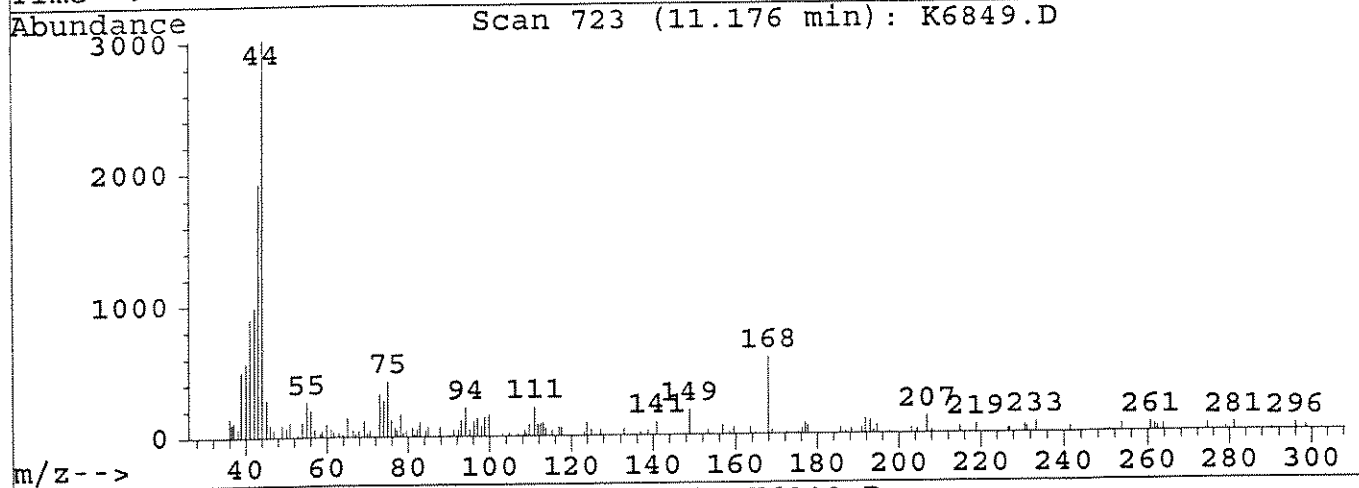
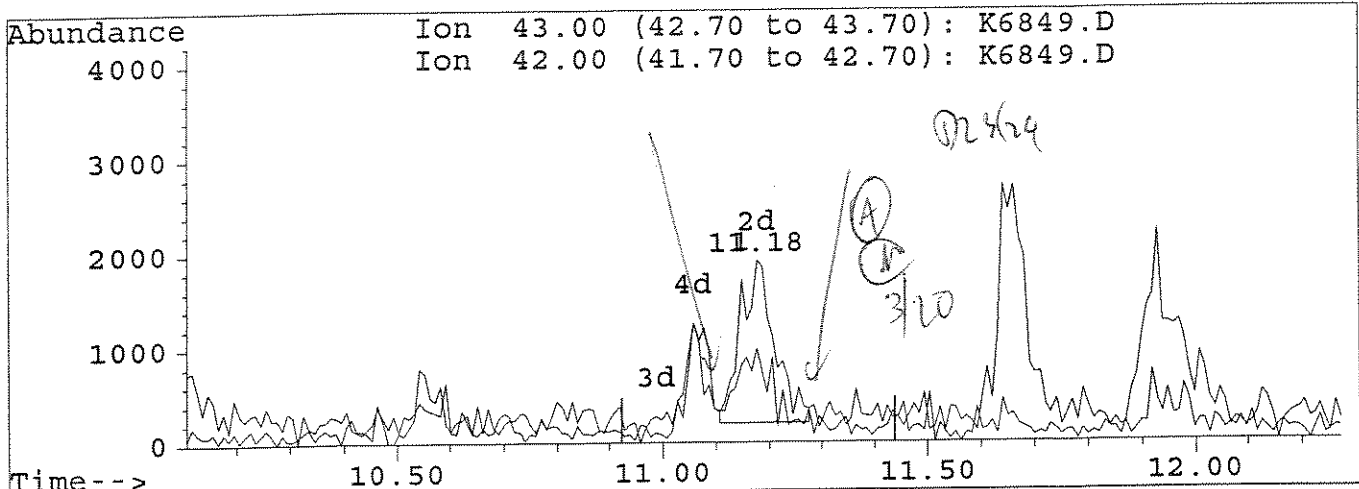
Ion	Exp%	Act%
67.00	100	100
41.00	170.80	118.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(46) Iso-Butyl Alcohol
 11.18min 44.83ppb m
 response 7604

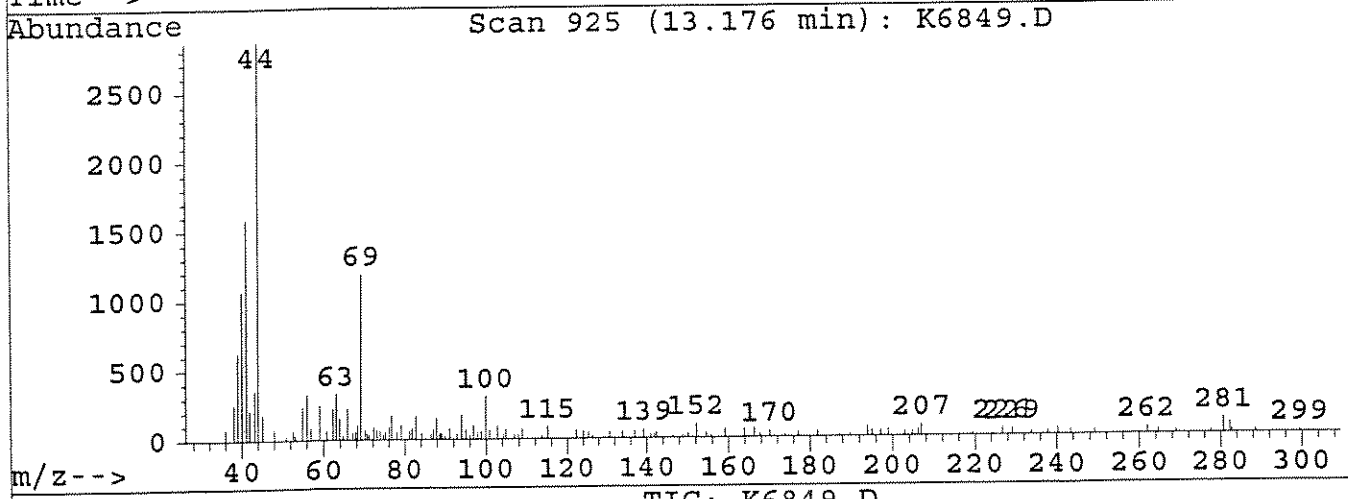
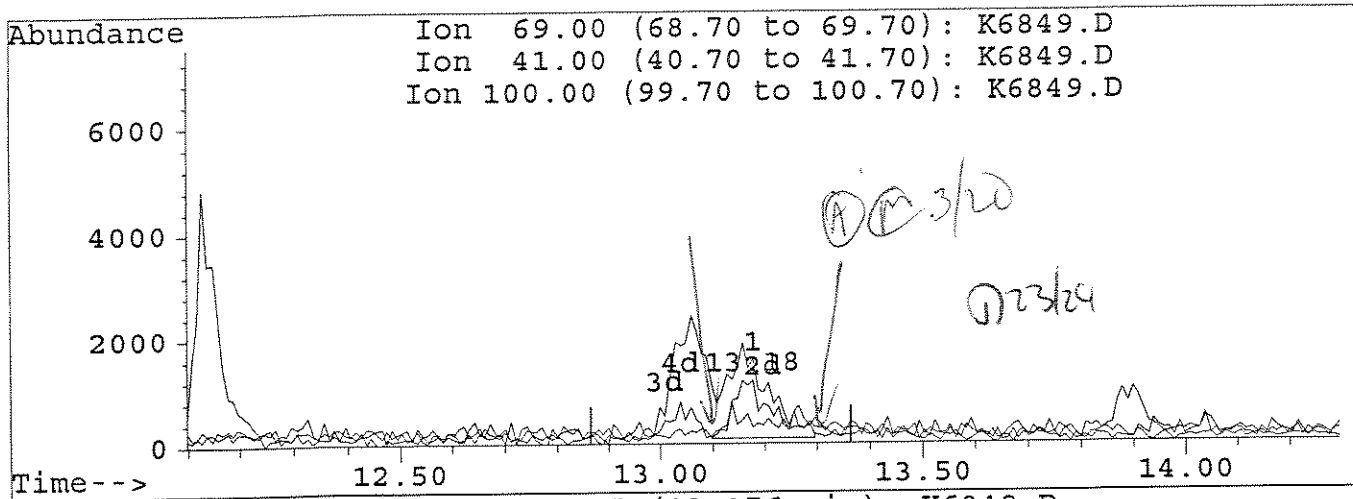
Ion	Exp%	Act%
43.00	100	100
42.00	62.30	51.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(55) Methyl Methacrylate
 13.18min 1.68ppb m
 response 5392

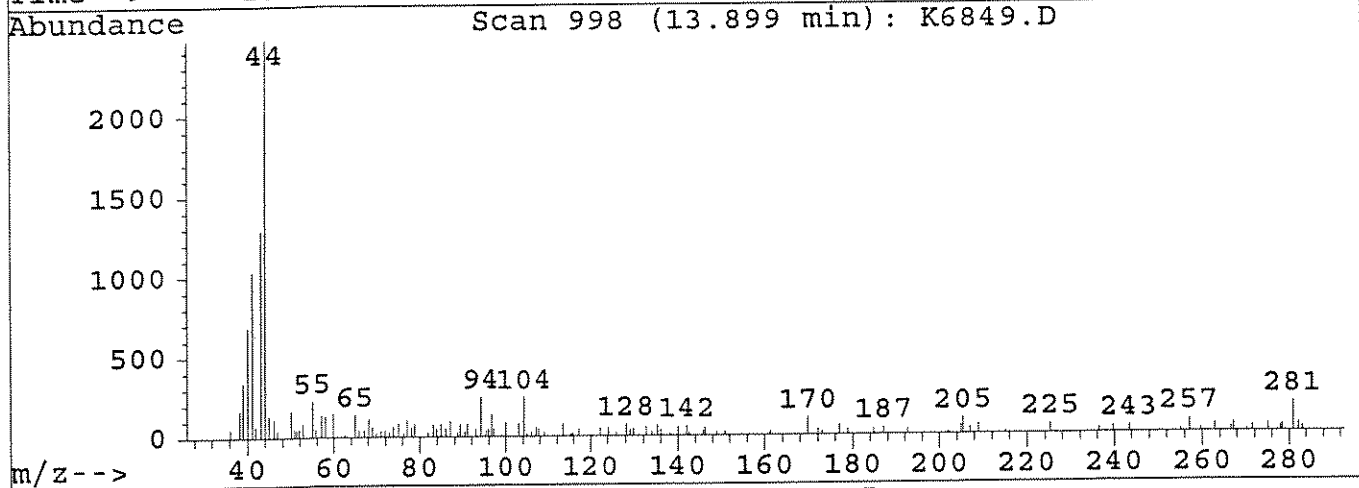
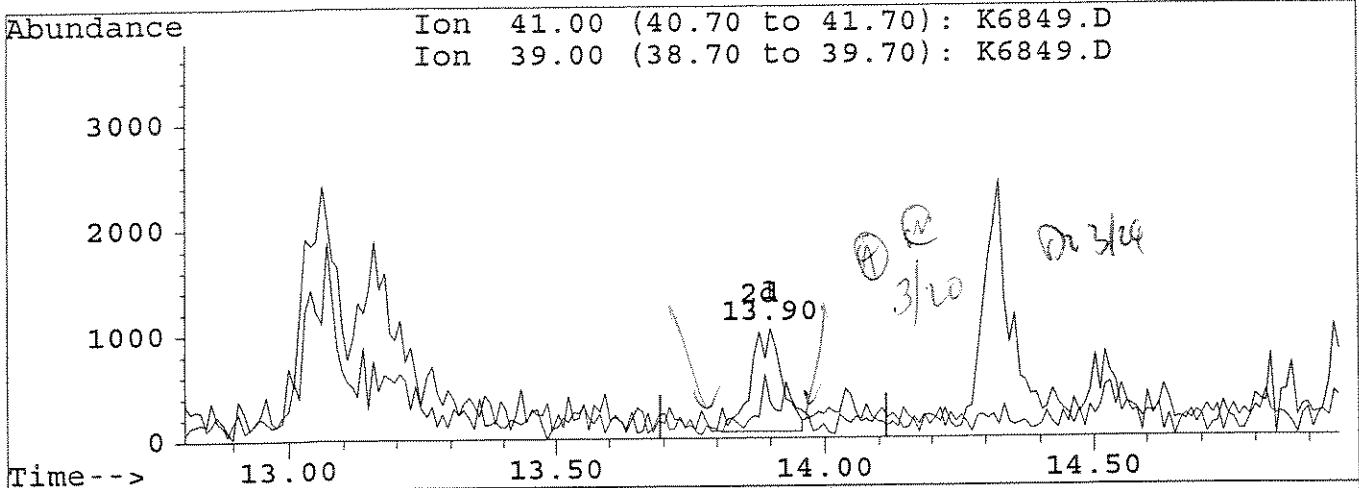
Ion	Exp%	Act%
69.00	100	100
41.00	137.70	133.16
100.00	33.50	25.93
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(59) 2-Nitropropane
 13.90min 4.40ppb m
 response 3860

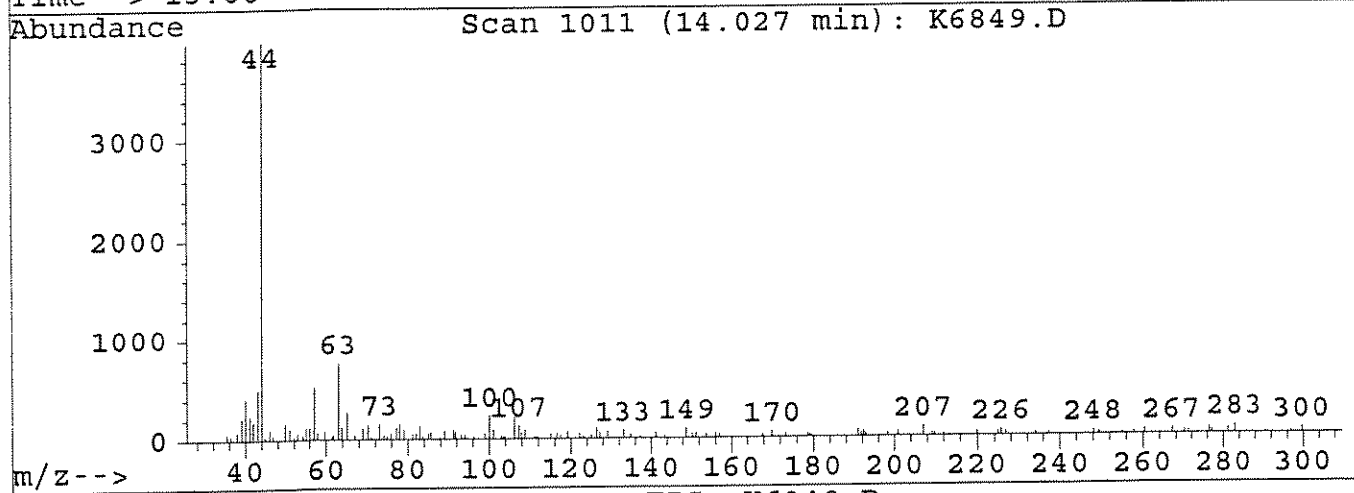
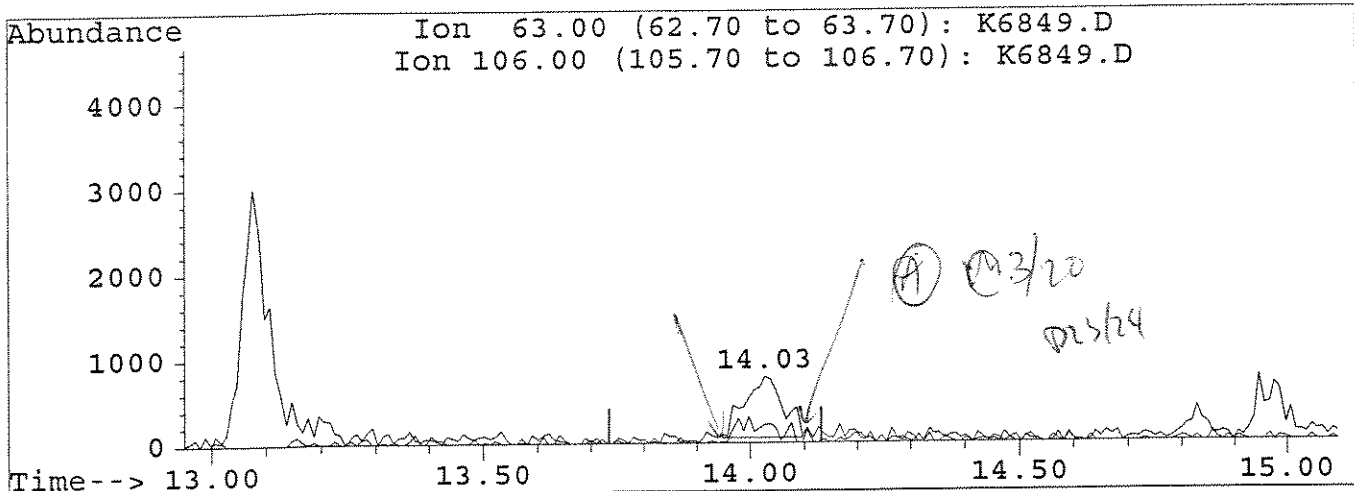
Ion	Exp%	Act%
41.00	100	100
39.00	34.70	32.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(60) 2-Chloroethylvinyl Ether

14.03min 6.67ppb m

response 3543

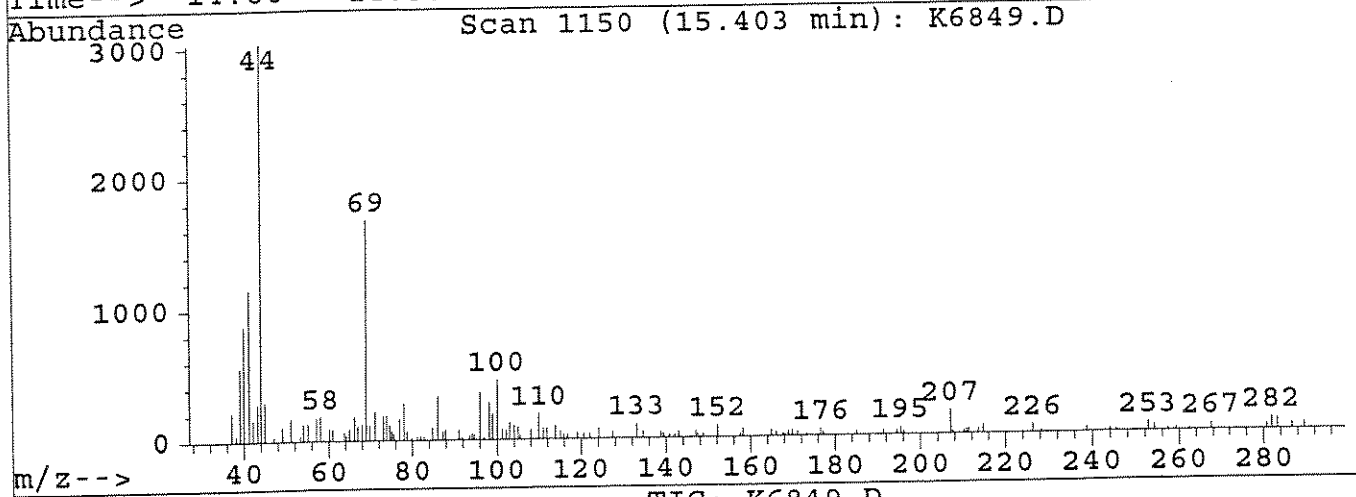
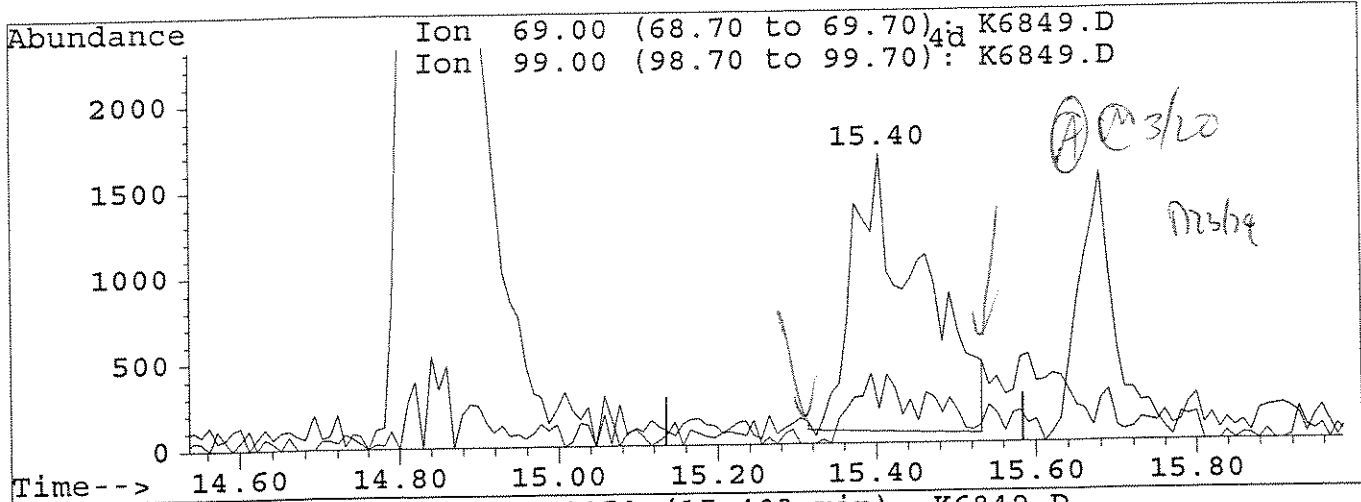
Ion	Exp%	Act%
63.00	100	100
106.00	27.60	27.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



(65) Ethyl Methacrylate
 15.40min 1.64ppb m
 response 9554

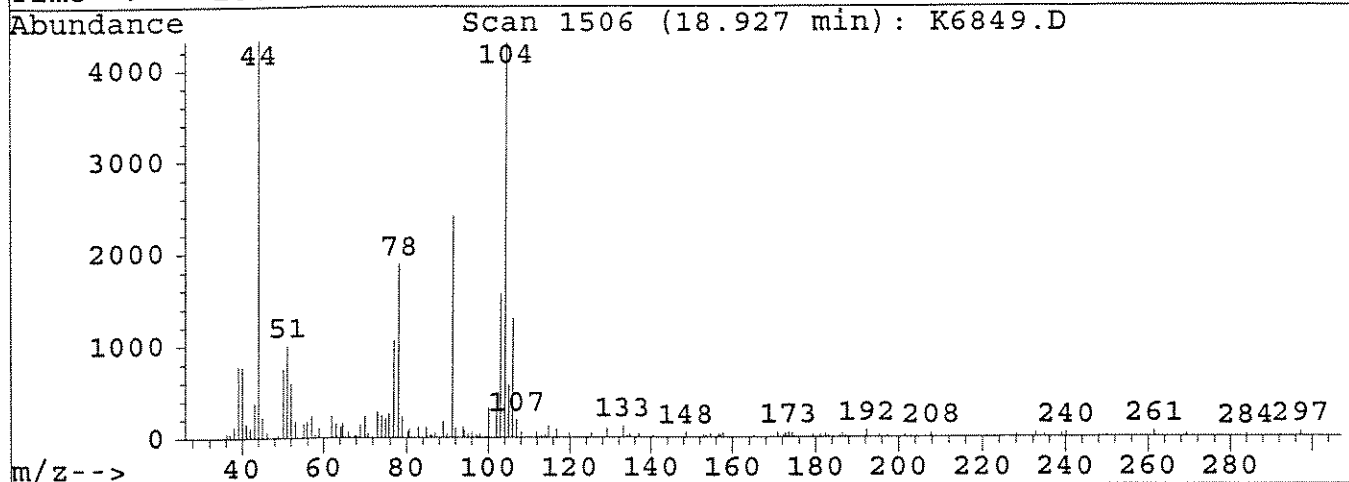
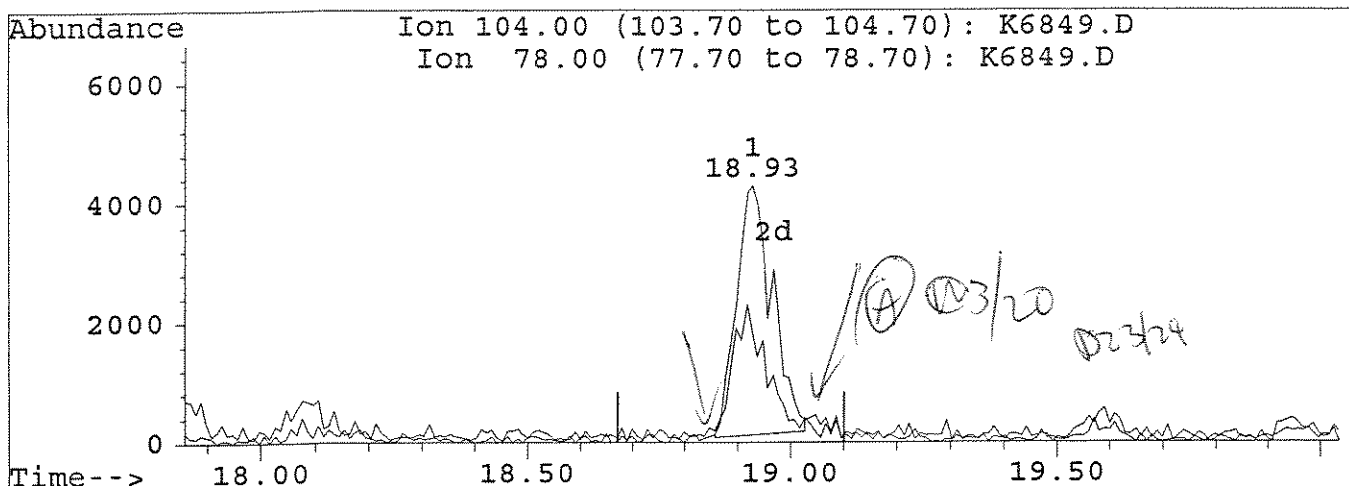
Ion	Exp%	Act%
69.00	100	100
99.00	16.70	11.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(80) Styrene
 18.93min 1.74ppb m
 response 19577

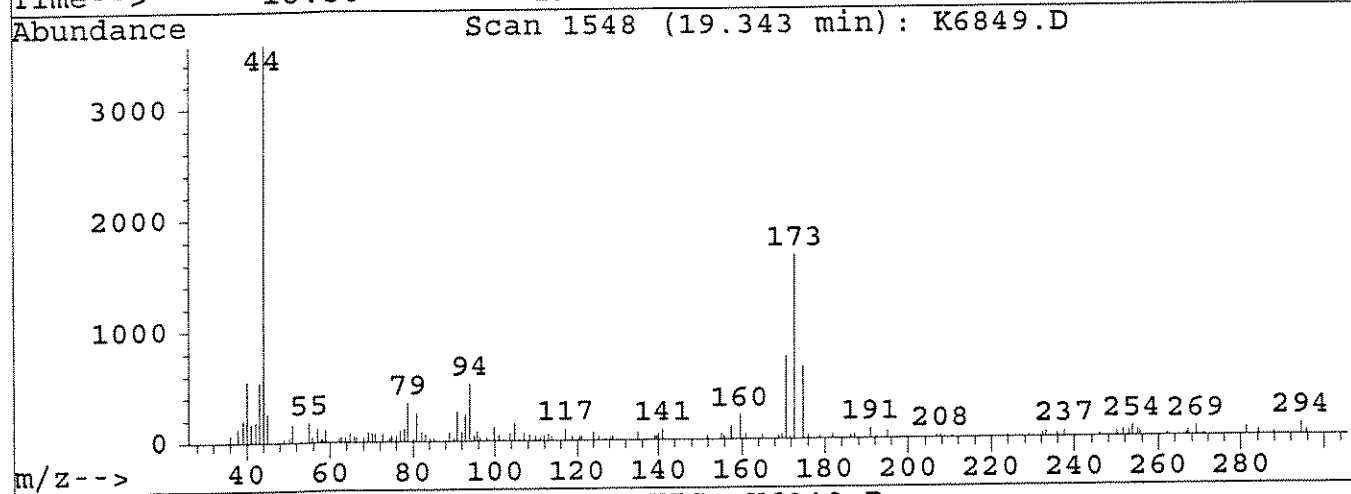
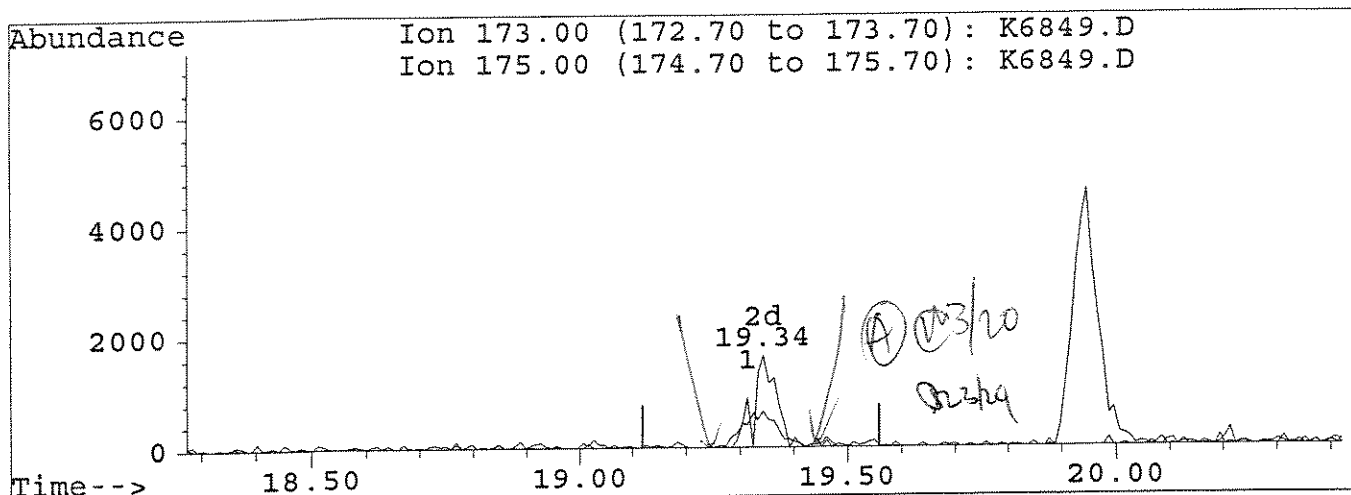
Ion	Exp%	Act%
104.00	100	100
78.00	45.00	43.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

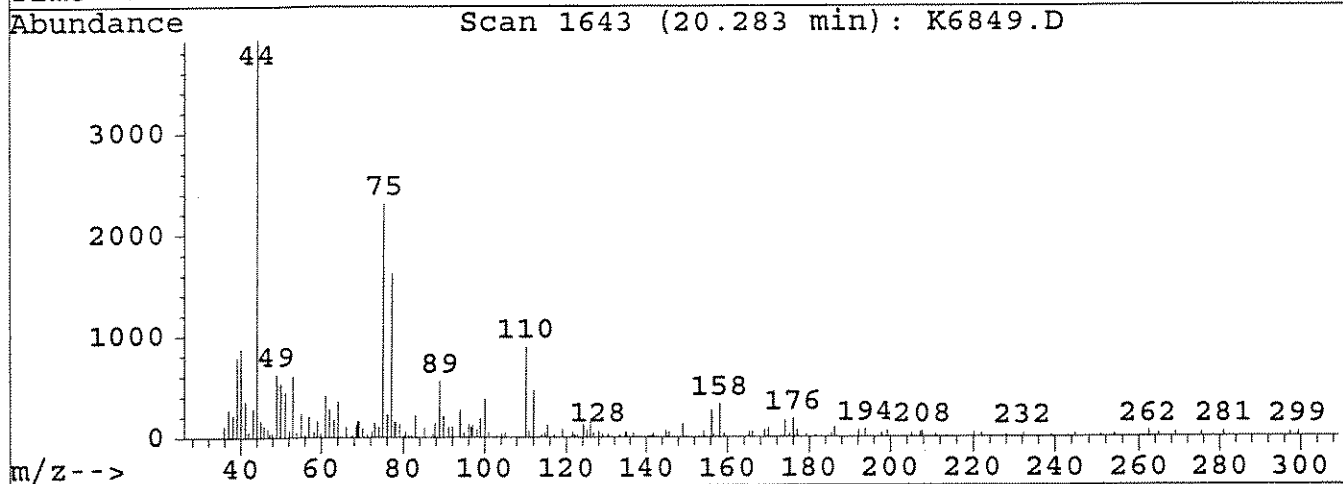
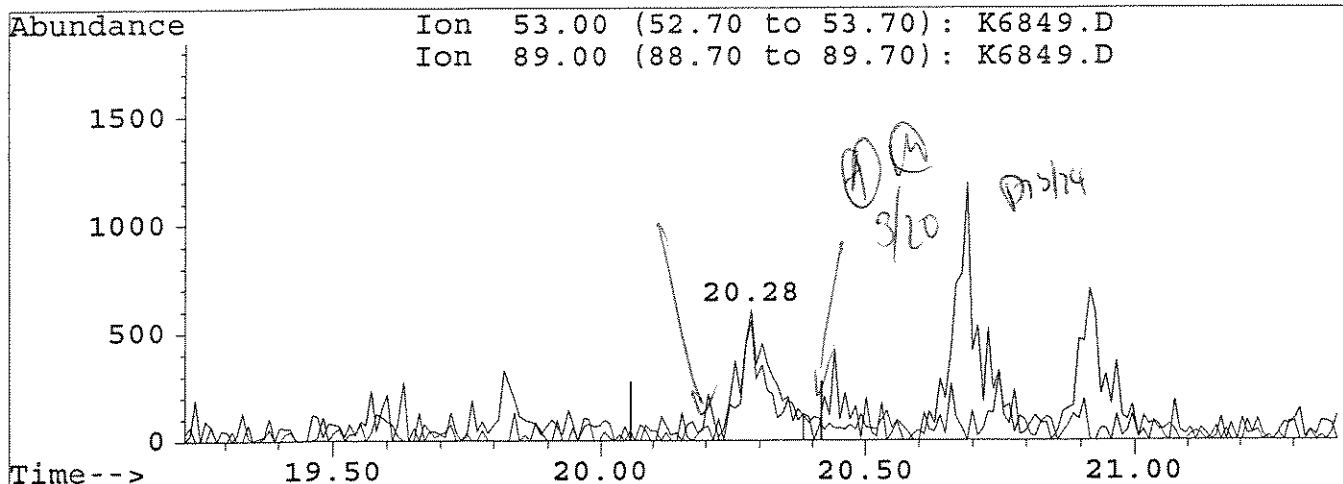
(81) Bromoform (p)		
19.34min	1.77ppb m	
response	5040	
Ion	Exp%	Act%
173.00	100	100
175.00	46.20	39.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(87) Trans-1,4-Dichloro-2-Butene

20.28min 2.07ppb m

response 2572

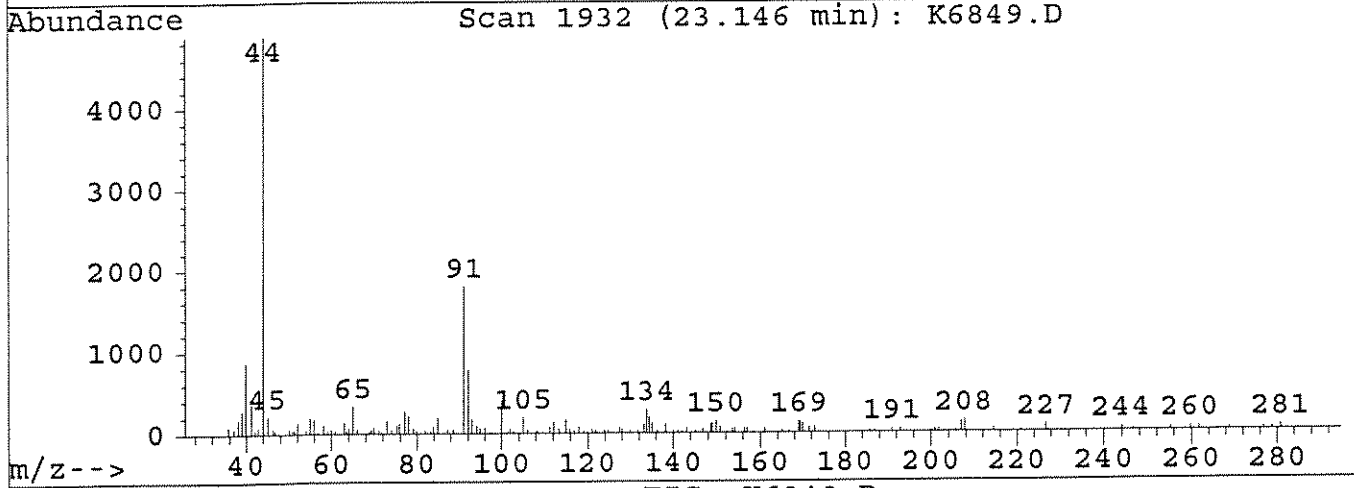
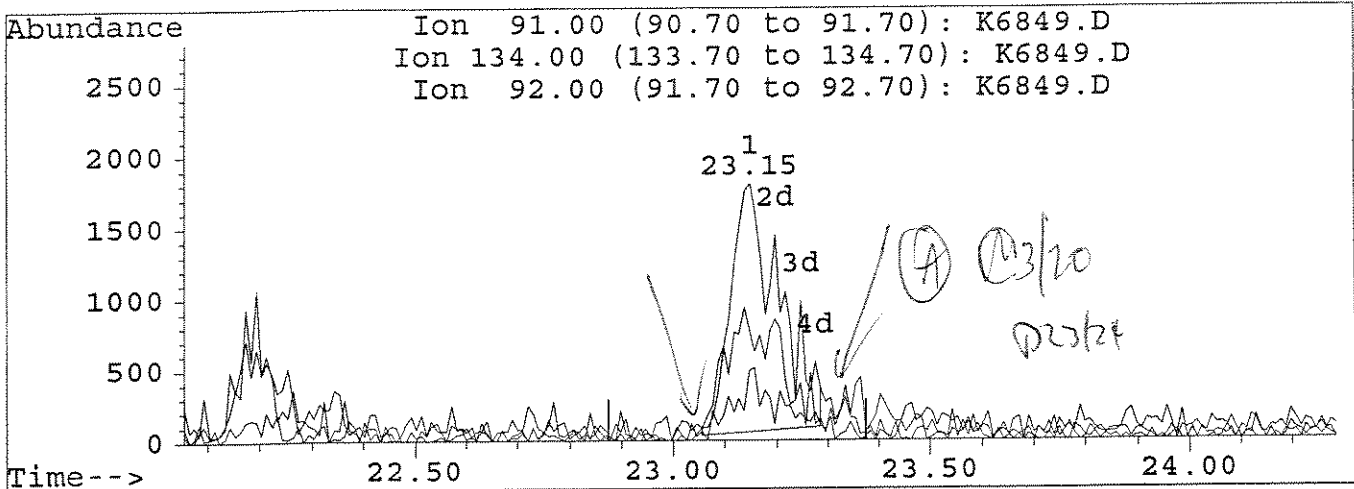
Ion	Exp%	Act%
53.00	100	100
89.00	65.50	91.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(99) n-Butylbenzene
 23.15min 1.76ppb m
 response 11469

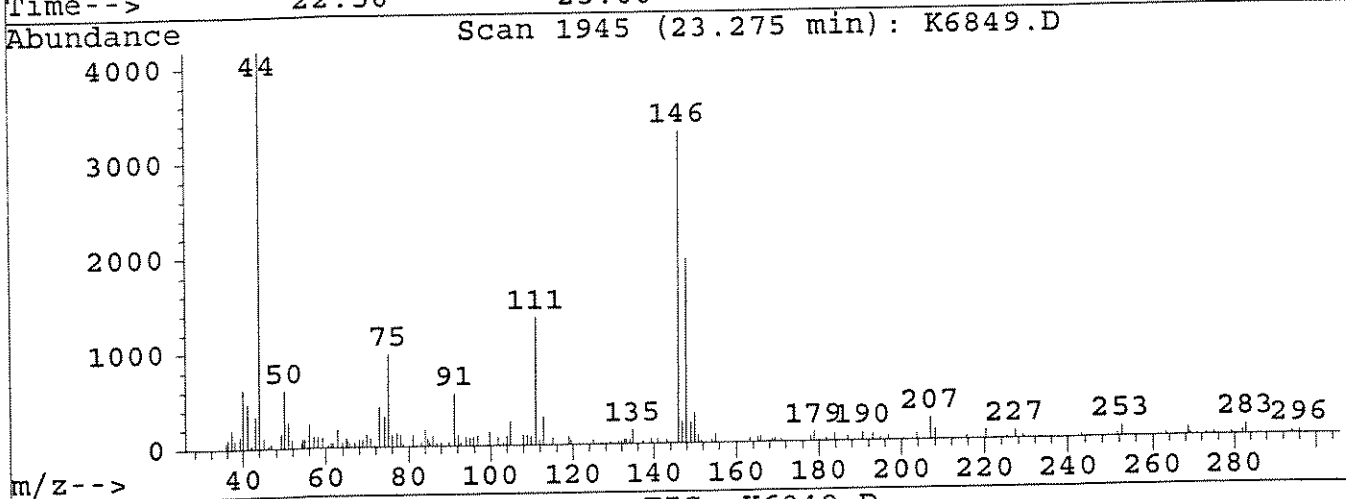
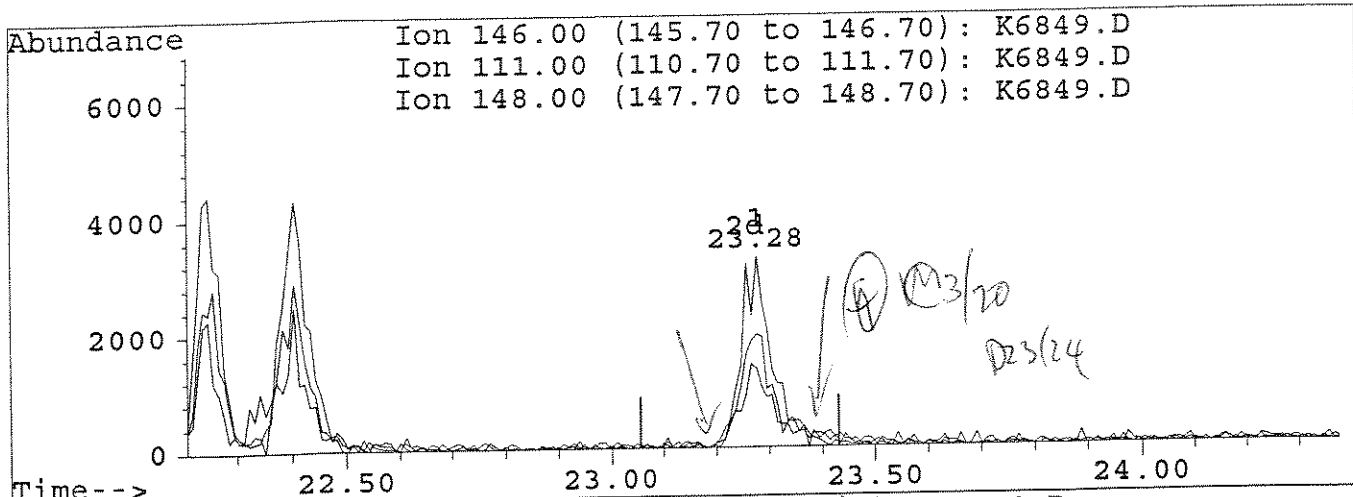
Ion	Exp%	Act%
91.00	100	100
134.00	23.40	16.08
92.00	59.40	42.60
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

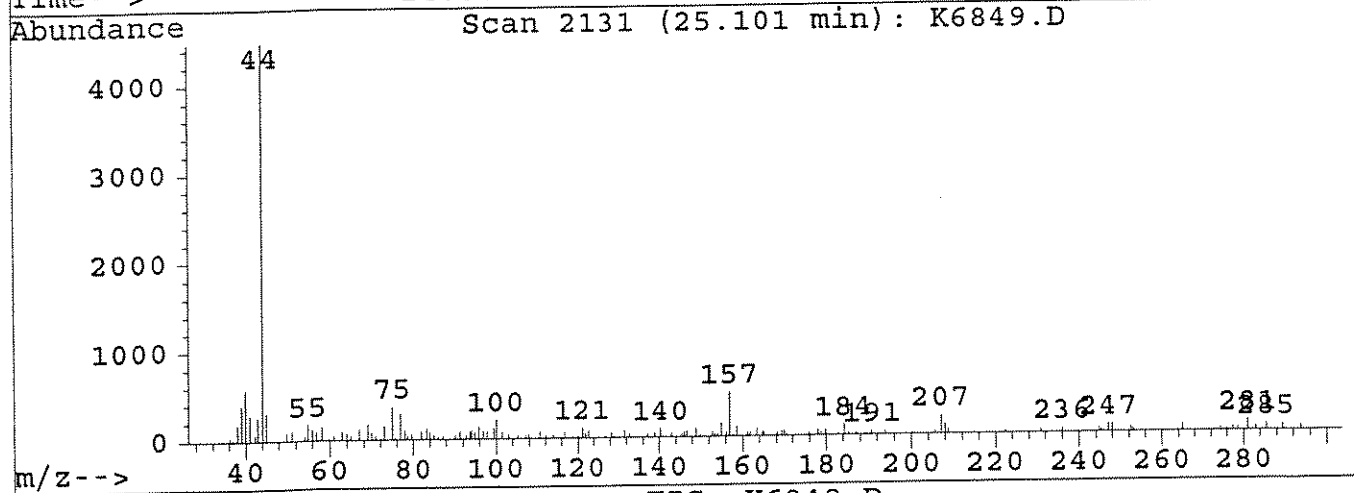
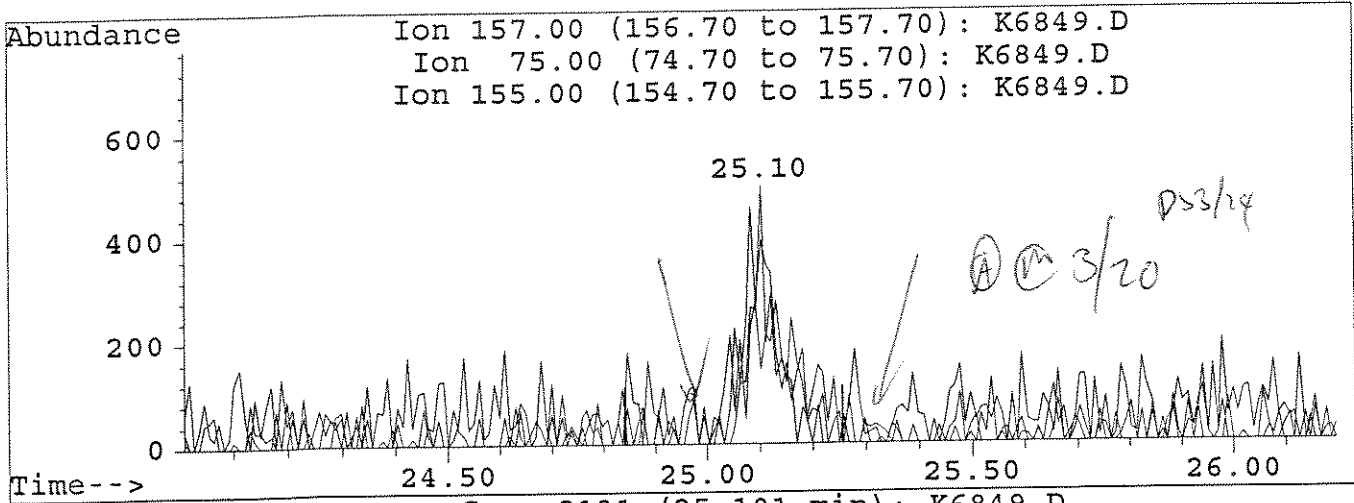
(100)	1,2-Dclbenz		
23.28min	1.87ppb m		
response	12876		
Ion	Exp%	Act%	
146.00	100	100	
111.00	42.30	40.77	
148.00	64.40	58.92	
0.00	0.00	0.00	

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(101) 1,2-Dibromo-3-chloropropane
 25.10min 1.75ppb m
 response 1622

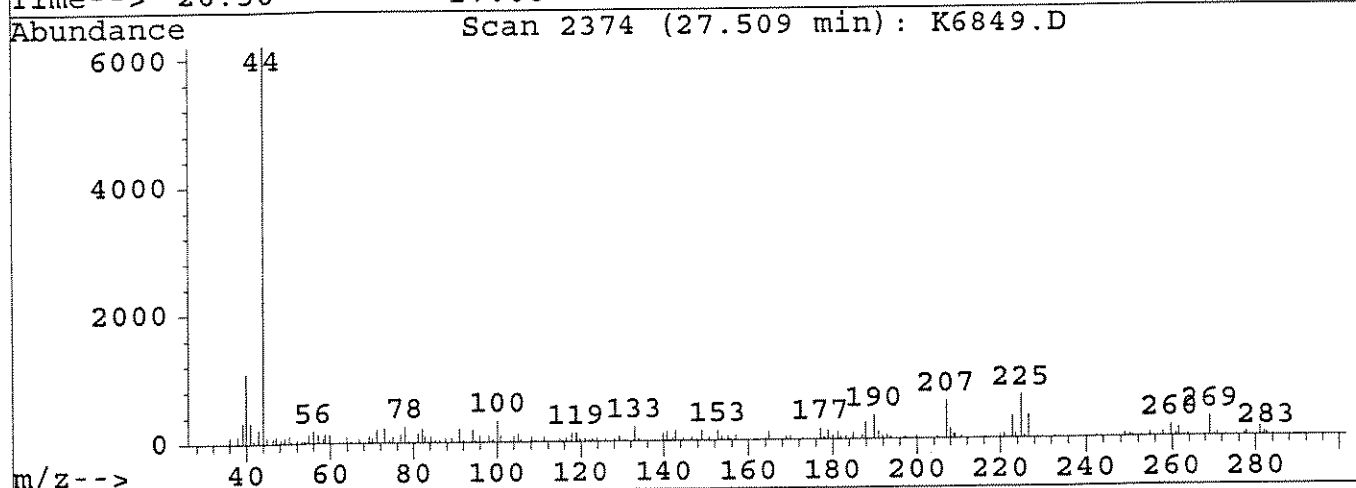
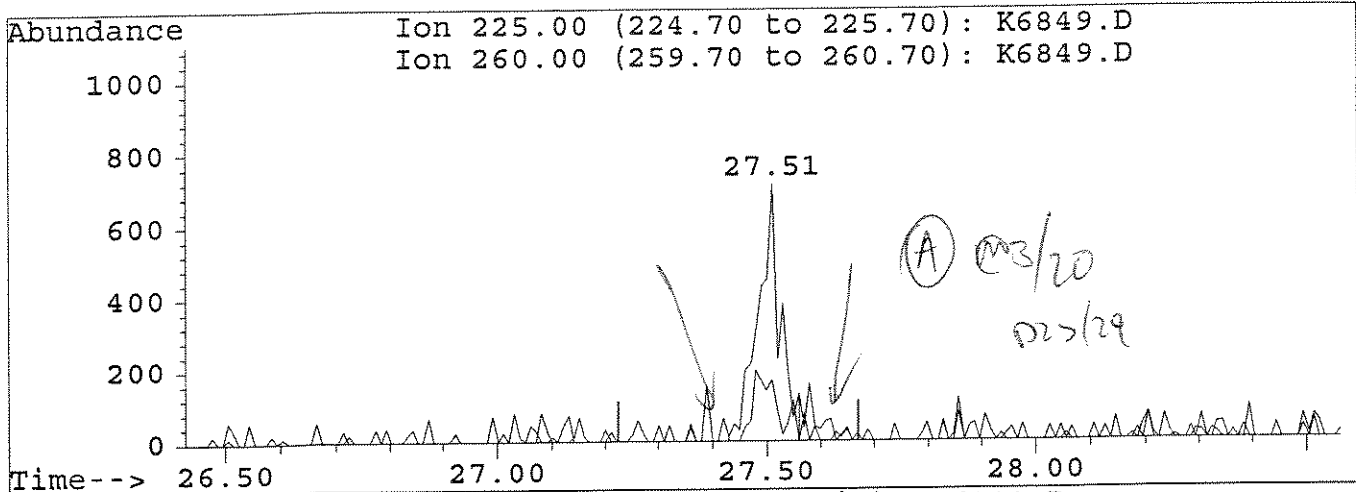
Ion	Exp%	Act%
157.00	100	100
75.00	77.90	74.65
155.00	77.70	28.57
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6849.D

(104) Hexachlorobt
 27.51min 1.56ppb m
 response 2025

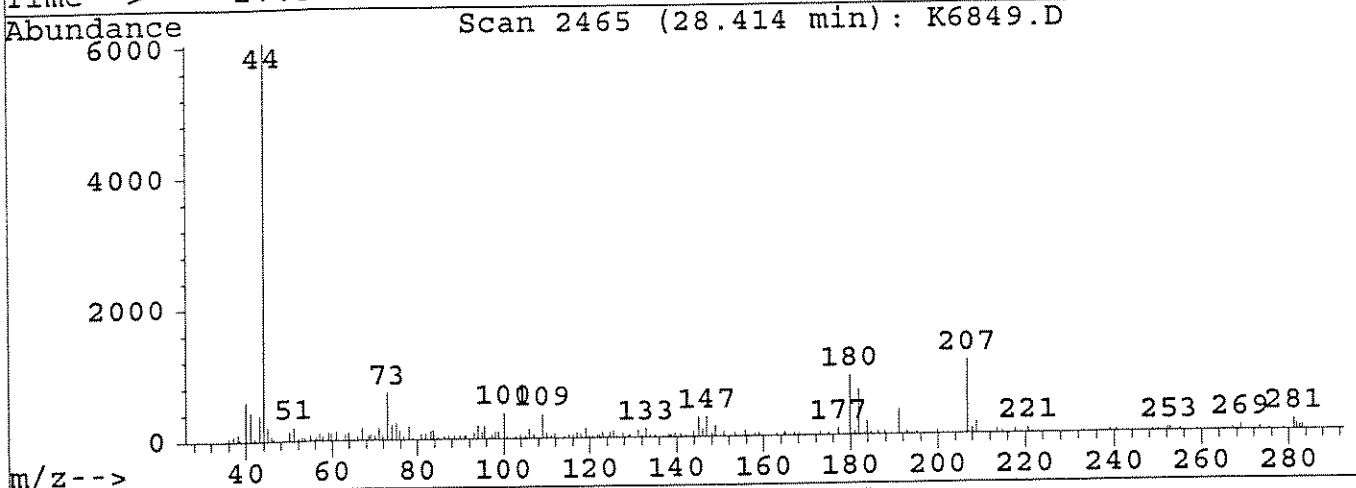
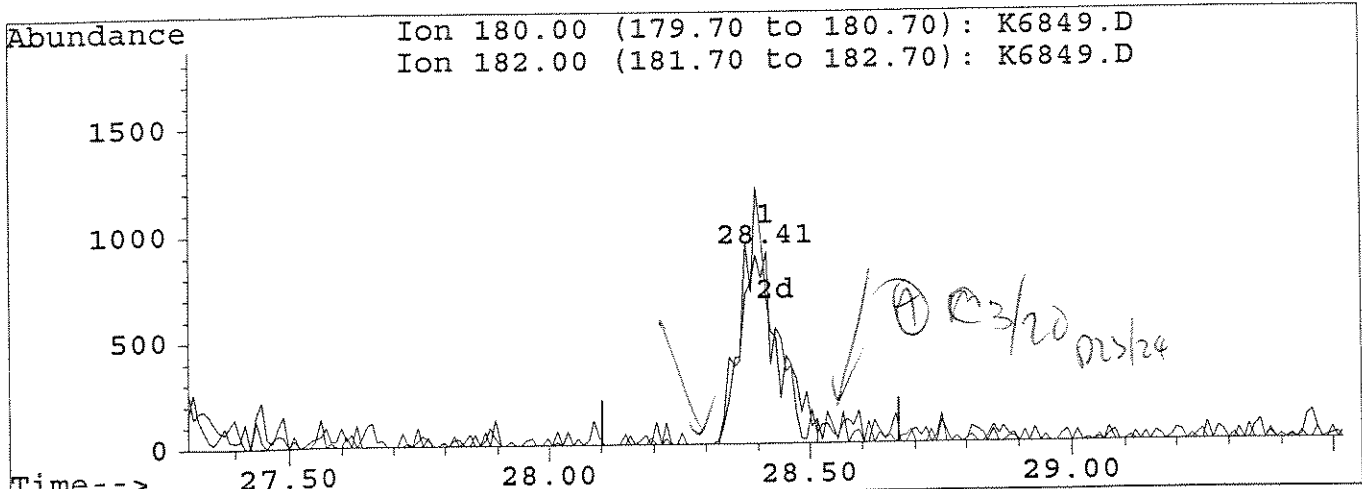
Ion	Exp%	Act%
225.00	100	100
260.00	34.70	25.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6849.D
 Acq On : 17 Mar 108 2:41 pm
 Sample : 2.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:43 19108

Vial: 3
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



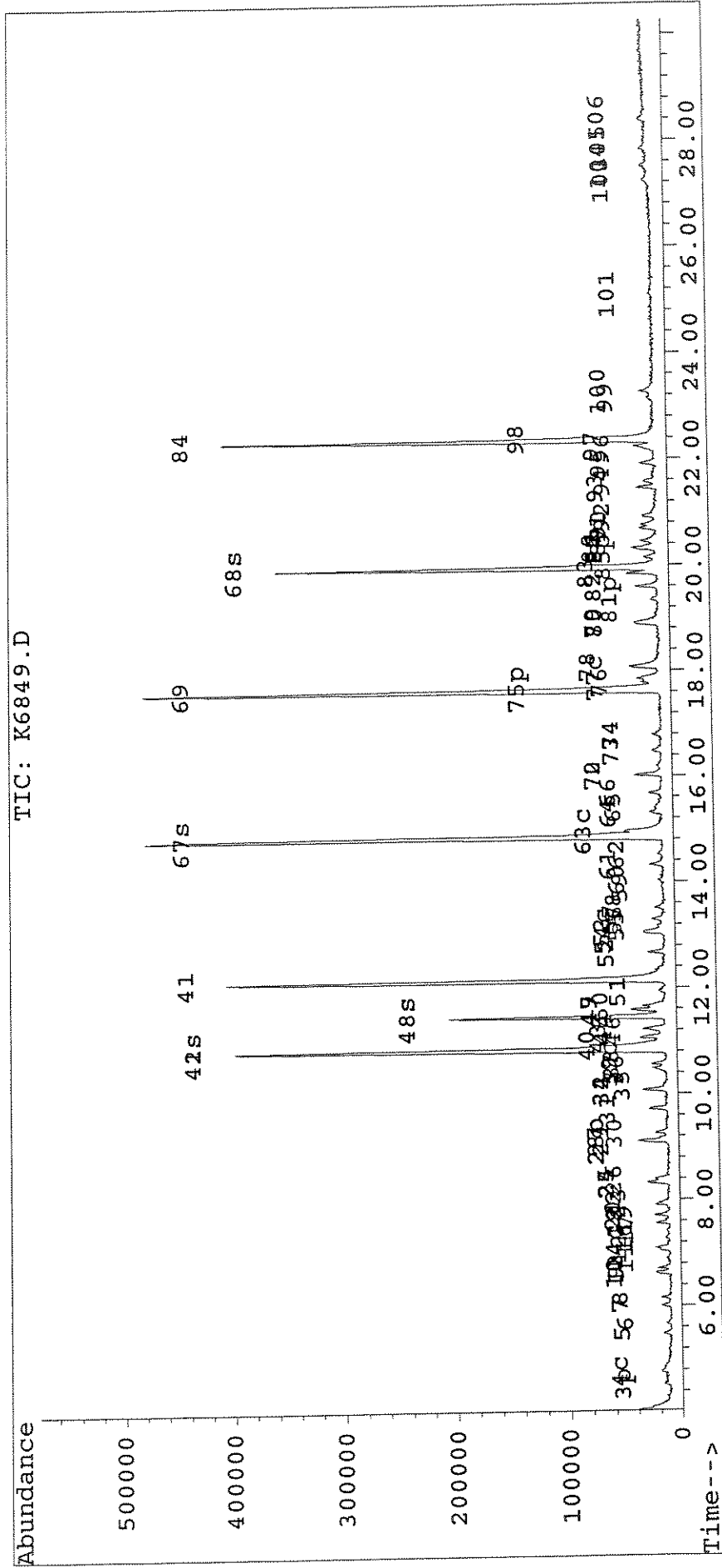
(106) 1,2,3-Tclbenzene
 28.41min 2.24ppb m
 response 4864

Ion	Exp%	Act%
180.00	100	100
182.00	92.20	75.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQDATA\MSVOA5\DATA\031708\K6849.D Vial: 3
 Acq On : 17 Mar 108 2:41 pm Operator: M.MILLER
 Sample : 2.0PPB ICAL STD Inst : 5971 - In
 Misc : Multiplr: 1.00
 Quant Time: Mar 18 10:43 19108

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



00106

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6850.D
 Acq On : 17 Mar 108 3:17 pm
 Sample : 5.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:46 19108

Vial: 4
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

3/18

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	10.82	168	367147	50.00	ppb	0.00
41) 1,4-Difluorobenzene	12.13	114	653468	50.00	ppb	0.00
69) d5-Chlorobenze	17.62	117	609851	50.00	ppb	0.00
84) d4-1,4-Dichlorobenzene	22.34	152	226977	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
42) surr4,Dibrflmethane	10.83	113	276237	63.11	ppb	126.23%
48) surr1,1,2-Diclethane	11.45	65	247609	64.11	ppb	128.23%
67) surr3,Toluene-d8	14.83	98	850460	59.98	ppb	119.96%
68) surr2,bfb	19.94	95	355593	66.51	ppb	133.02%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.12	85	12606	3.04	ppb	98
3) Chloromethane	4.53	50	20398	3.21	ppb	92
4) Vinyl Chloride	4.76	62	19441	3.36	ppb	89
5) Bromomethane	5.47	96	17469	5.19	ppb	99
6) Chloroethane	5.67	64	12328	3.15	ppb	# 86
7) Freon 21	6.01	67	42564	4.10	ppb	m 100
8) Trichlorofluoromethane	6.15	101	24441	4.46	ppb	95
9) Diethyl Ether	6.64	59	14330	3.55	ppb	# 67
10) Freon 123A	6.61	85	8726	4.04	ppb	# 75
11) Acrolein	6.89	56	11622	16.75	ppb	95
12) FREON 113	7.06	101	15576	3.75	ppb	91
13) Freon 123	6.72	85	17003	4.05	ppb	94
14) 1,1-Diclethene	7.10	96	17236	4.64	ppb	94
15) Acetone	7.14	43	4707	4.02	ppb	m 78
16) 2-propanol	7.28	45	16432	68.28	ppb	96
17) Iodomethane	7.42	142	17161	2.47	ppb	77
18) Carbon Disulfide	7.56	76	63925	3.89	ppb	95
19) Acetonitrile	7.62	41	11301	17.96	ppb	# 91
20) Allyl Chloride	7.71	41	27681	3.74	ppb	90
21) Methyl Acetate	7.69	43	19761	3.75	ppb	# 88
22) Methylene Chloride	7.92	84	21909	3.88	ppb	97
23) TBA	7.96	59	30328	82.46	ppb	99
24) Methyl-t-Butyl Ether	8.33	73	54761	4.49	ppb	# 91
25) Acrylonitrile	8.30	53	36935	18.93	ppb	97
26) trans-1,2-Dichloroethene	8.39	96	18083	3.70	ppb	96
27) DIPE	9.11	45	73321	3.81	ppb	# 81
28) 1,1-Diclethane	9.10	63	33806	3.66	ppb	# 97
29) Vinyl Acetate	9.11	86	1928	3.24	ppb	80
30) 2-Chloro-1,3-butadiene	9.26	53	30469	4.73	ppb	97
31) ETBE	9.72	59	69541	4.36	ppb	# 91
32) 2,2-Dichloropropane	10.07	77	28490	4.87	ppb	100
33) 2-Butanone	10.06	43	9174	4.06	ppb	98

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6850.D
 Acq On : 17 Mar 108 3:17 pm
 Sample : 5.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:46 19108

Vial: 4
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) cis-1,2-Dichloroethene	10.05	96	21491	4.06	ppb	89
35) Propionitrile	10.14	54	13202	20.54	ppb #	89
36) Methacrylonitrile	10.42	67	7344	3.60	ppb	83
37) Bromochloromethane	10.47	128	12732	4.46	ppb	98
38) Tetrahydrofuran	10.55	42	6087	4.42	ppb #	86
39) Chloroform	10.55	83	35572	4.31	ppb	96
40) 1,1,1-Trichloroethane	10.94	97	27130	4.85	ppb #	76
43) Cyclohexane	11.07	56	36254	4.37	ppb #	91
44) Carbontetrachloride	11.24	117	18685	4.50	ppb	94
45) 1,1-Dichloropropene	11.21	75	29966	4.77	ppb	99
46) Iso-Butyl Alcohol	11.16	43	15228	85.95	ppb	95
47) Benzene	11.58	78	81383	4.35	ppb	86
49) 1,2-Dichloroethane	11.57	62	25624	4.79	ppb	96
50) TAME	11.65	73	68364	5.19	ppb #	93
51) N-Heptane	11.92	43	17718	3.61	ppb #	83
52) Trichloroethene	12.66	95	18963	4.14	ppb #	86
53) Methylcyclohexane	13.04	55	25302	4.57	ppb	89
54) 1,2-Diclpropane	13.07	63	22505	4.05	ppb	86
55) Methyl Methacrylate	13.13	69	11494	3.44	ppb m	86
56) 1,4-Dioxane	13.23	88	2549	70.97	ppb m	93
57) Dibromomethane	13.30	93	15472	4.79	ppb	92
58) Bromodichloromethane	13.51	83	27795	4.93	ppb	93
59) 2-Nitropropane	13.90	41	7519	8.20	ppb #	73
60) 2-Chloroethylvinyl Ether	13.98	63	7547	13.61	ppb	93
61) cis-1,3-Dichloropropene	14.31	75	36526	4.40	ppb	100
62) 4-Methyl-2-Pentanone	14.51	43	21242	4.19	ppb	97
63) Toluene	14.96	91	86997	4.73	ppb	94
64) trans-1,3-Dichloropropene	15.29	75	34253	4.85	ppb	98
65) Ethyl Methacrylate	15.37	69	20587	3.37	ppb	95
66) 1,1,2-Trichloroethane	15.66	83	16955	4.35	ppb	92
70) Tetrachloroethene	16.02	166	20926	4.71	ppb	91
71) 2-Hexanone	16.16	43	16270	4.58	ppb m	88
72) 1,3-Dichloropropane	16.01	76	37109	4.37	ppb	92
73) Dibromochloromethane	16.47	129	24142	4.97	ppb	97
74) 1,2-Dibromoethane	16.77	107	22227	4.49	ppb	85
75) Chlorobenzene	17.67	112	58712	4.57	ppb	89
76) 1,1,1,2-Tetrachloroethane	17.79	131	21831	4.96	ppb #	84
77) Ethylbenzene	17.85	91	91876	4.63	ppb	97
78) (m+p)Xylene	18.06	106	57425	8.43	ppb	97
79) o-Xylene	18.88	106	28669	4.16	ppb	89
80) Styrene	18.90	104	51800	4.52	ppb	97
81) Bromoform	19.32	173	13928	4.80	ppb	96
82) Isopropylbenzene	19.57	105	76114	4.54	ppb	90
83) Cyclohexanone	19.83	55	73488	102.87	ppb #	94

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

00108

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6850.D
 Acq On : 17 Mar 108 3:17 pm
 Sample : 5.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:46 19108

Vial: 4
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,1,2,2-Tetrachloroethane	20.14	83	27692	4.82	ppb	# 96
86) 1,2,3-Trichloropropane	20.30	110	6775	4.46	ppb	94
87) Trans-1,4-Dichloro-2-Buten	20.27	53	5760	4.50	ppb	67
88) n-Propylbenzene	20.43	91	80022	4.71	ppb	94
89) Bromobenzene	20.32	156	23707	4.92	ppb	93
90) 1,3,5-Trimethylbenzene	20.75	105	45401	5.27	ppb	92
91) 2-Chlorotoluene	20.68	91	54888	4.60	ppb	100
92) 4-Chlorotoluene	20.89	91	49569	4.71	ppb	96
93) tert-Butylbenzene	21.45	119	42496	4.89	ppb	96
94) 1,2,4-Trimethylbenzene	21.56	105	39609	5.04	ppb	97
95) sec-Butylbenzene	21.91	105	55374	4.68	ppb	# 92
96) p-Isopropyltoluene	22.17	119	42574	4.93	ppb	98
97) 1,3-Dclbenz	22.24	146	33792	4.54	ppb	91
98) 1,4-Dclbenz	22.40	146	30608	4.33	ppb	96
99) n-Butylbenzene	23.09	91	27858	4.16	ppb	m 94
100) 1,2-Dclbenz	23.25	146	34531	4.87	ppb	m 99
101) 1,2-Dibromo-3-chloropropan	25.08	157	4682	4.91	ppb	m 83
103) 1,2,4-Tcbenzene	27.22	180	10825	4.43	ppb	96
104) Hexachlorobt	27.50	225	4992	3.73	ppb	86
105) Naphthalen	27.80	128	31082	5.29	ppb	# 93
106) 1,2,3-Tclbenzene	28.39	180	11291	5.06	ppb	93

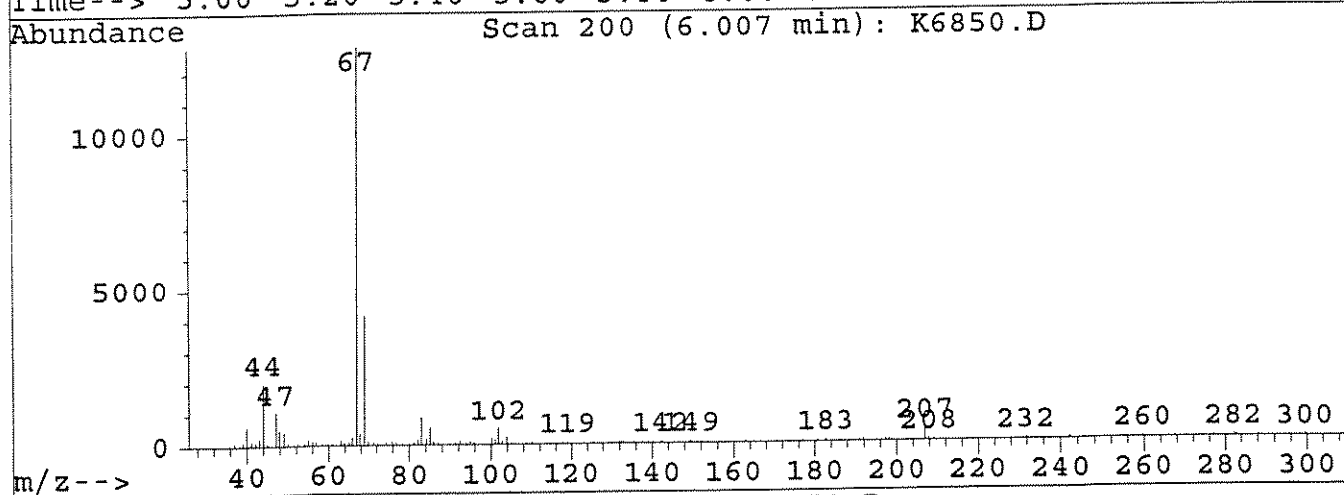
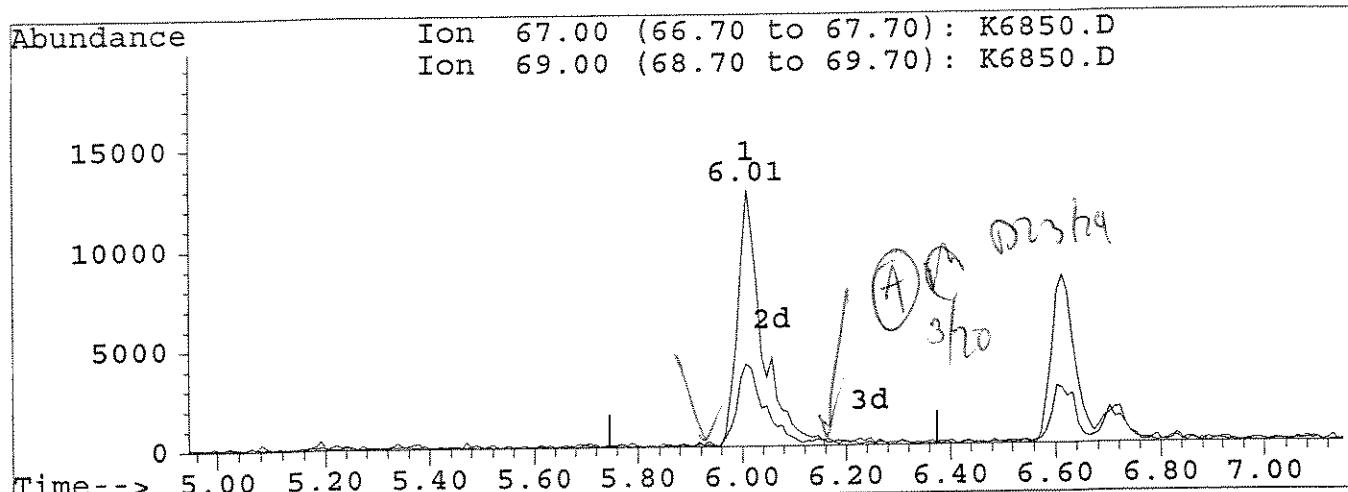
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6850.D
 Acq On : 17 Mar 108 3:17 pm
 Sample : 5.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:46 19108

Vial: 4
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6850.D

(7) Freon 21

6.01min 4.10ppb m
 response 42564

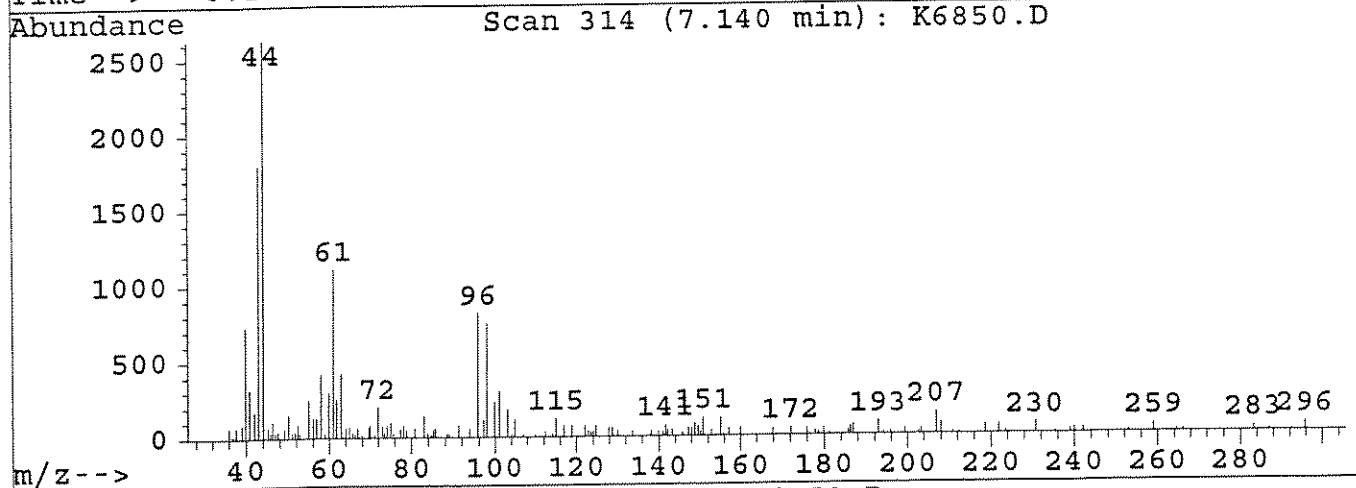
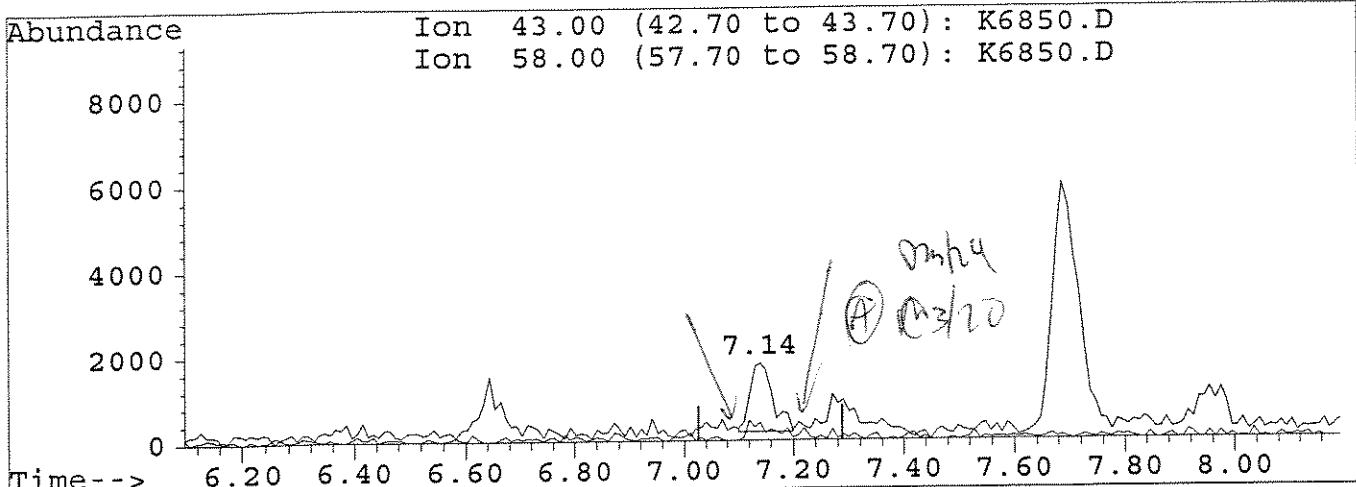
Ion	Exp%	Act%
67.00	100	100
69.00	32.30	32.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6850.D
 Acq On : 17 Mar 108 3:17 pm
 Sample : 5.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:46 19108

Vial: 4
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Single Level Calibration



TIC: K6850.D

(15) Acetone
 7.14min 4.02ppb m
 response 4707

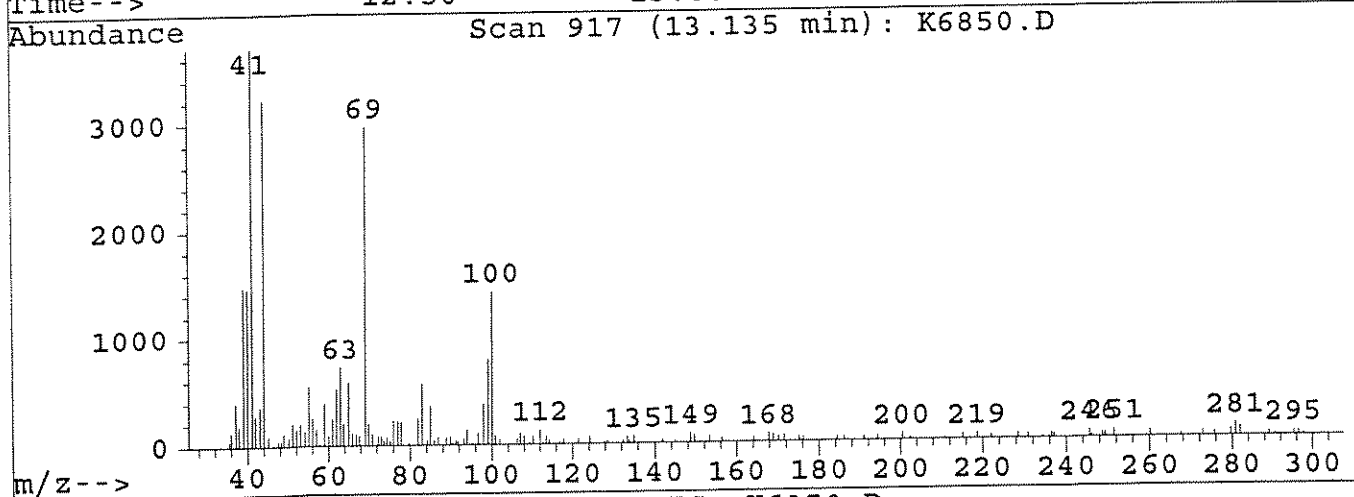
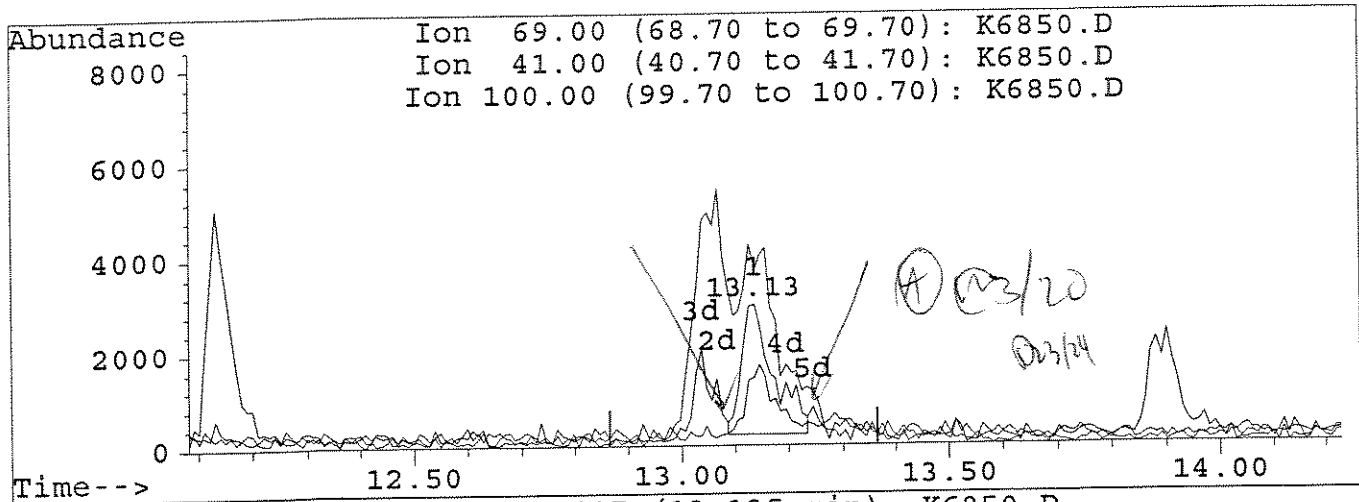
Ion	Exp%	Act%
43.00	100	100
58.00	35.90	23.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6850.D
 Acq On : 17 Mar 108 3:17 pm
 Sample : 5.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:46 19108

Vial: 4
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



(55) Methyl Methacrylate
 13.13min 3.44ppb m
 response 11494

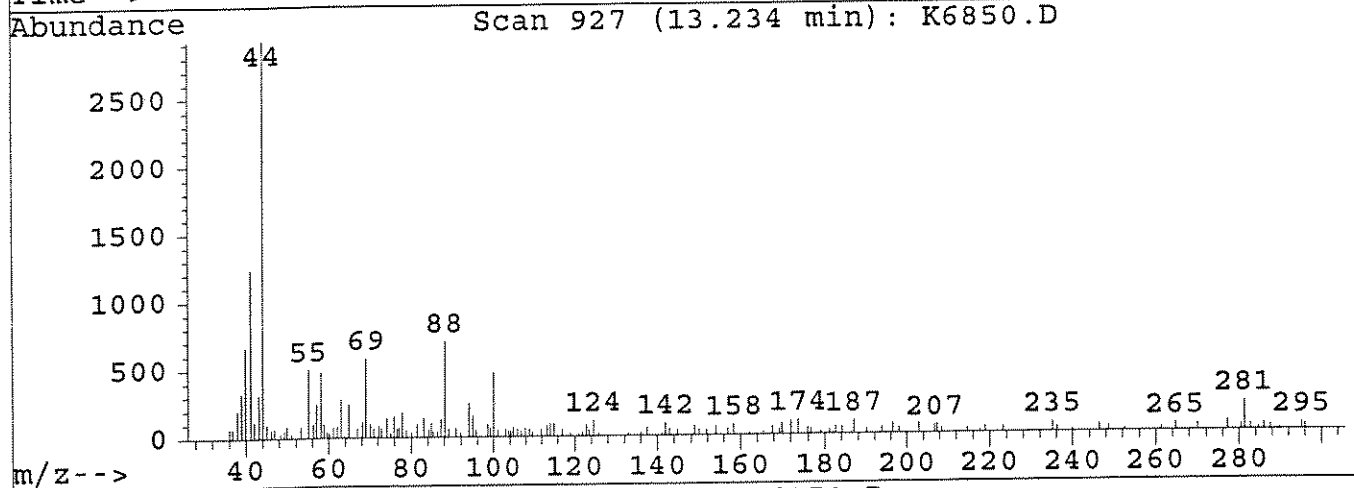
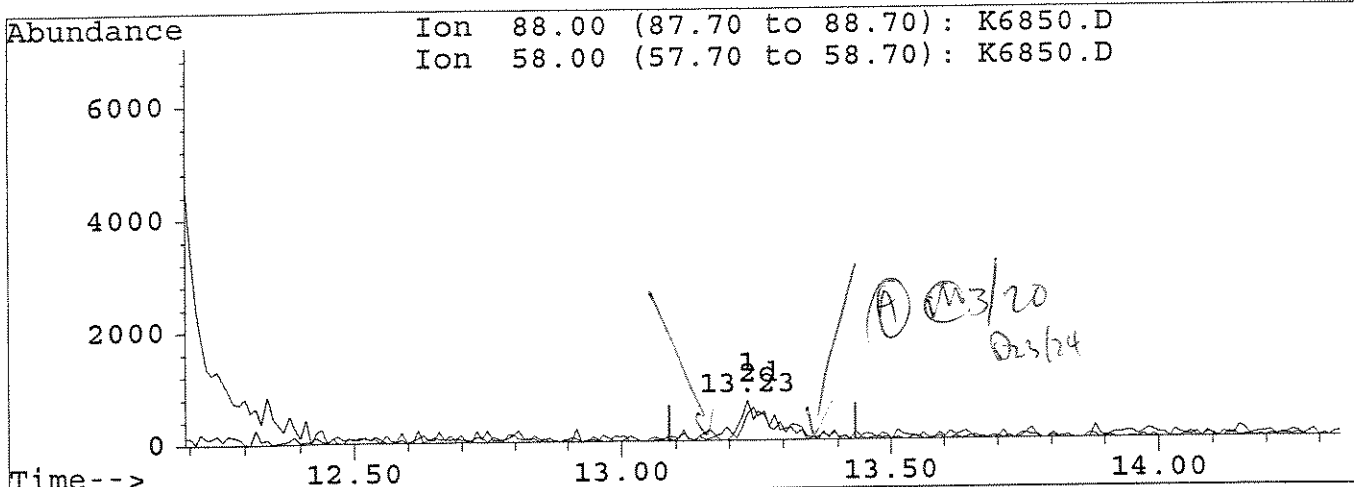
Ion	Exp%	Act%
69.00	100	100
41.00	137.70	124.83
100.00	33.50	48.05
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6850.D
 Acq On : 17 Mar 108 3:17 pm
 Sample : 5.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:46 19108

Vial: 4
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6850.D

(56) 1,4-Dioxane
 13.23min 70.97ppb m
 response 2549

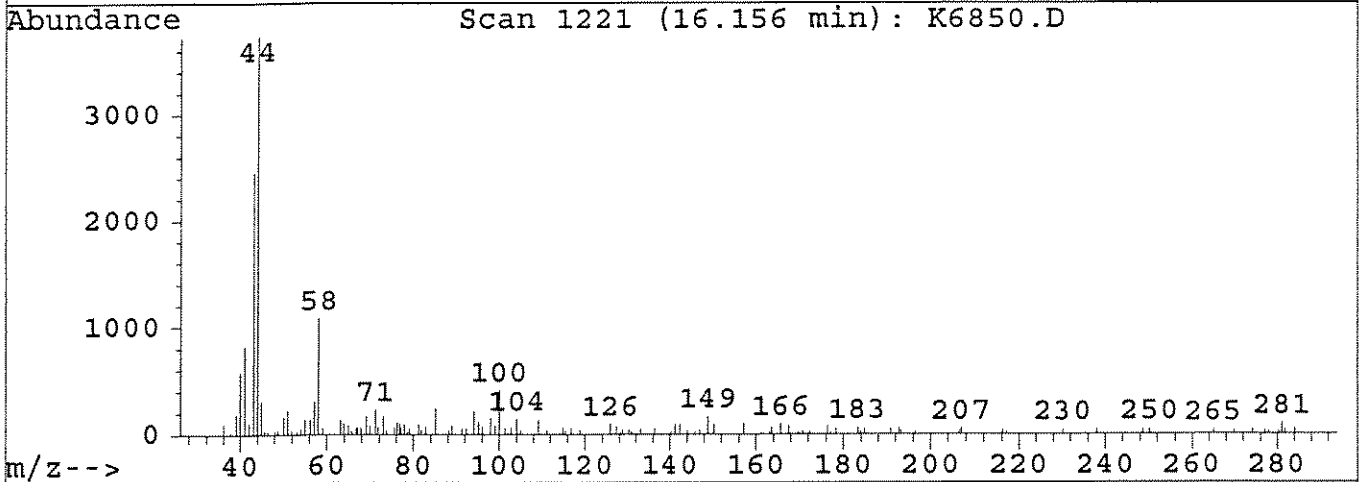
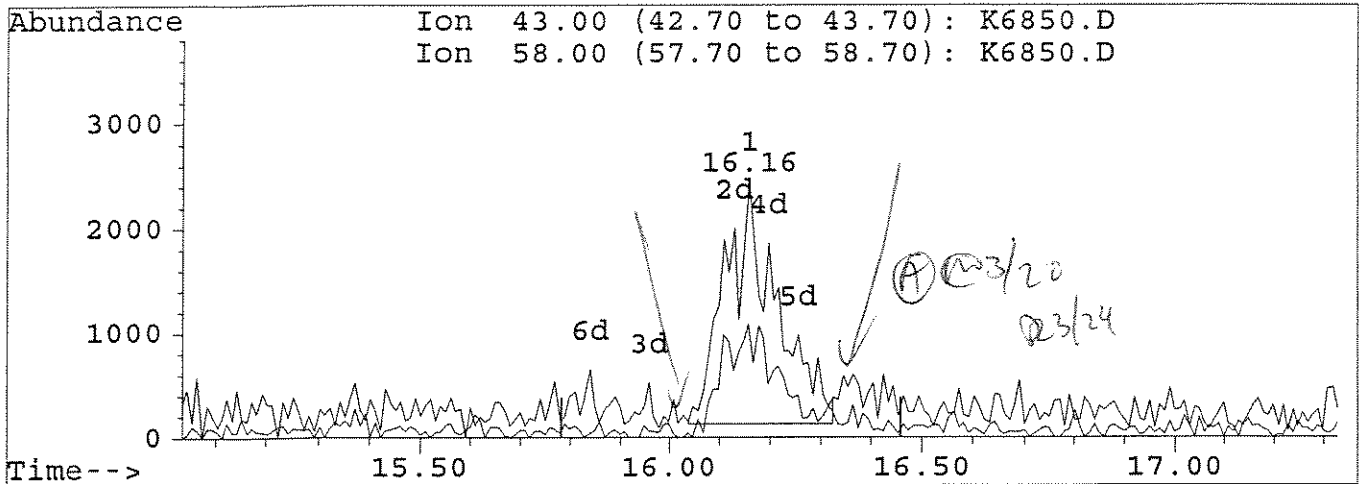
Ion	Exp%	Act%
88.00	100	100
58.00	74.50	68.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6850.D
 Acq On : 17 Mar 108 3:17 pm
 Sample : 5.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:46 19108

Vial: 4
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6850.D

(71) 2-Hexanone
 16.16min 4.58ppb m
 response 16270

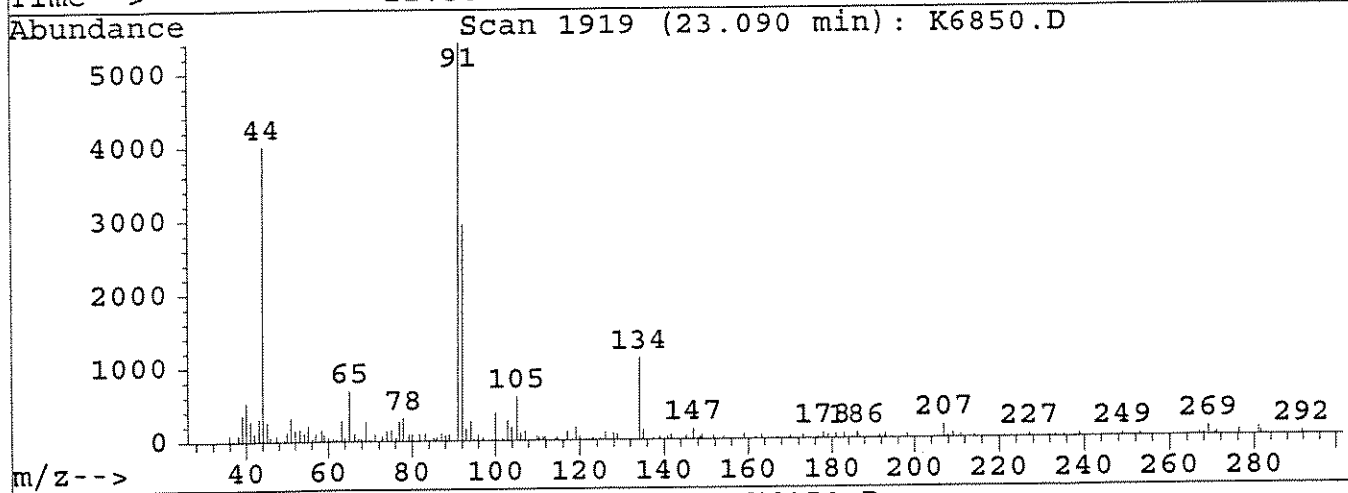
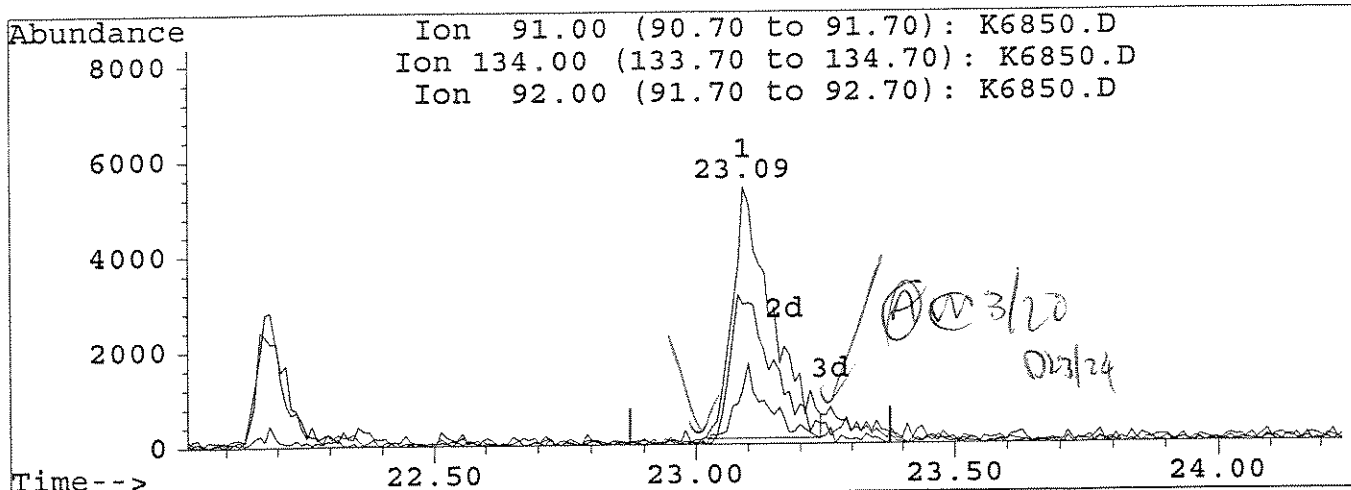
Ion	Exp%	Act%
43.00	100	100
58.00	52.50	44.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6850.D
 Acq On : 17 Mar 108 3:17 pm
 Sample : 5.0PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:46 19108

Vial: 4
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6850.D

(99) n-Butylbenzene
 23.09min 4.16ppb m
 response 27858

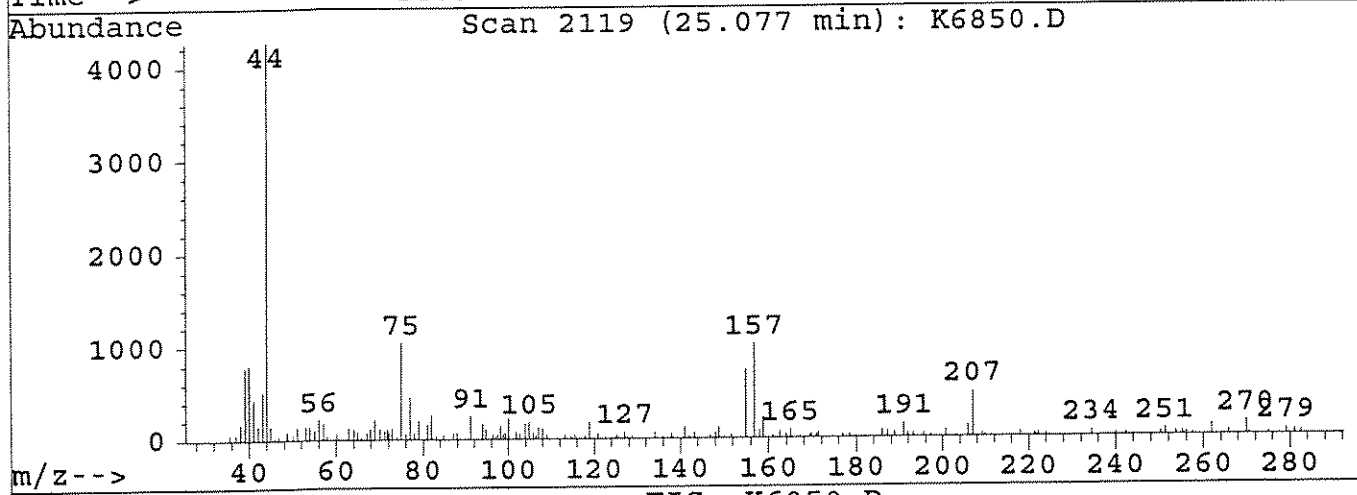
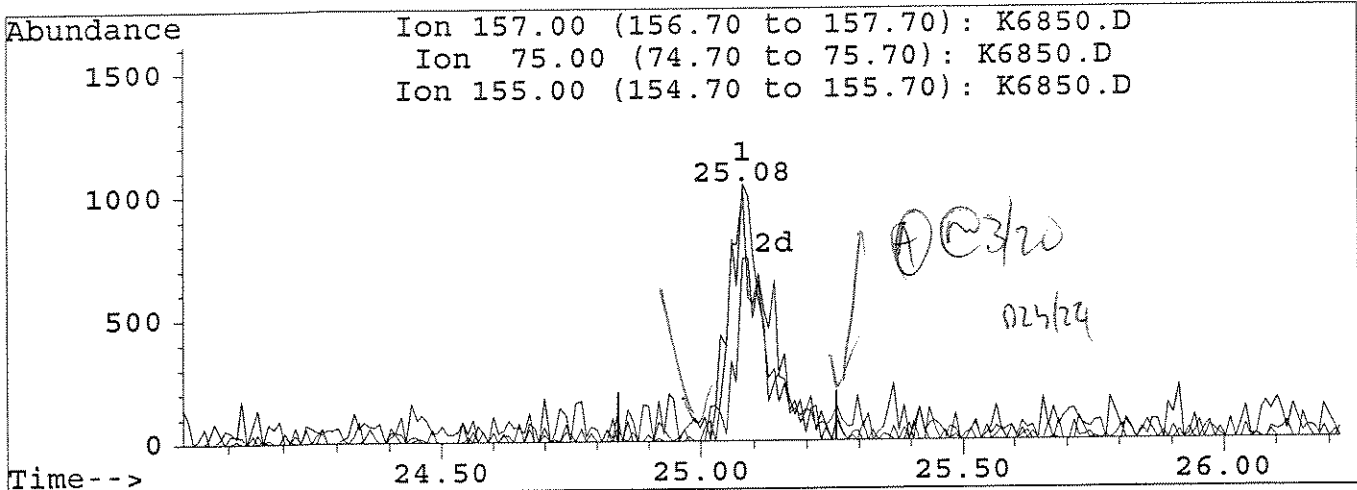
Ion	Exp%	Act%
91.00	100	100
134.00	23.40	20.58
92.00	59.40	54.34
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6850.D
Acq On : 17 Mar 108 3:17 pm
Sample : 5.0PPB ICAL STD
Misc :
Quant Time: Mar 18 10:46 19108

Vial: 4
Operator: M.MILLER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa
Last Update : Tue Mar 18 13:23:34 2008
Response via : Multiple Level Calibration



TIC: K6850.D

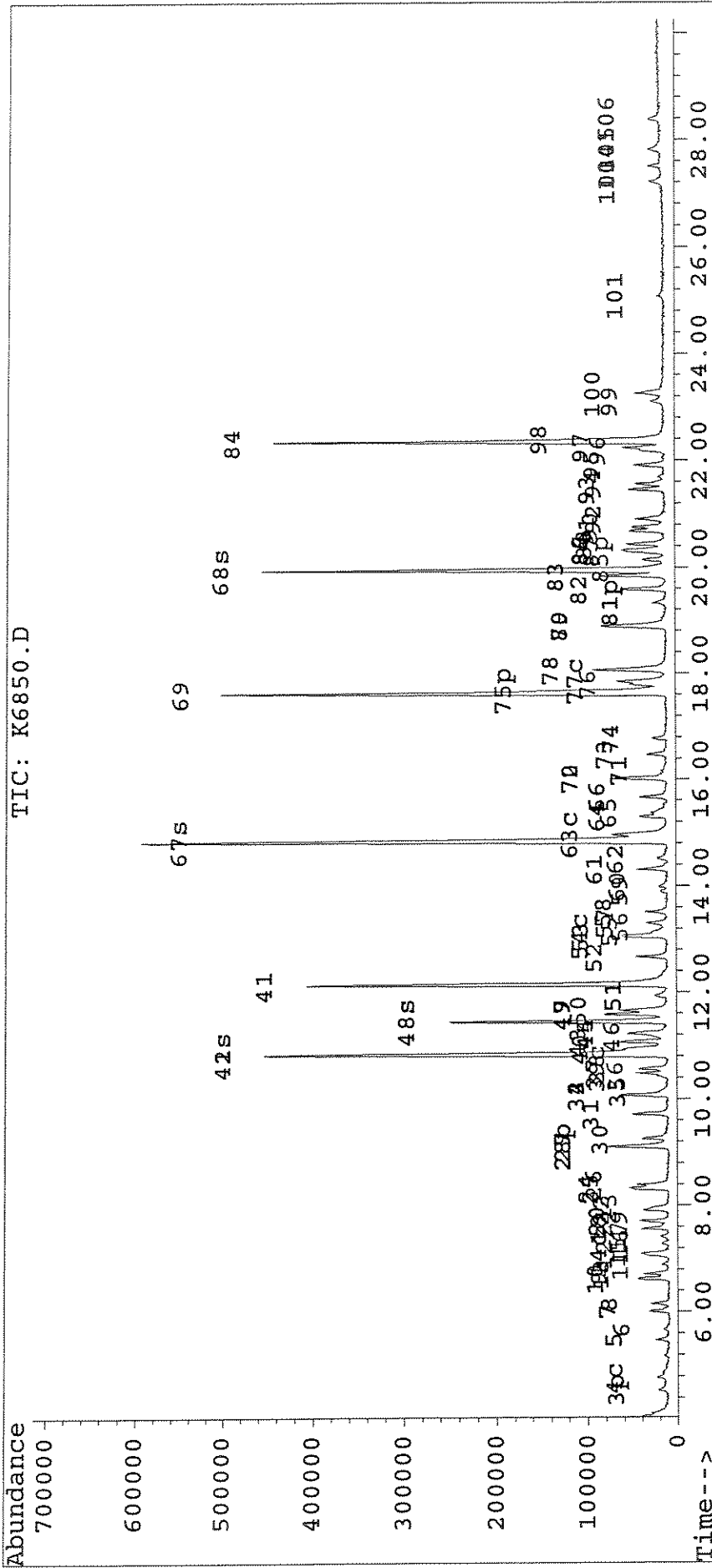
(101) 1,2-Dibromo-3-chloropropane

25.08min	4.91ppb m	
response	4682	
Ion	Exp%	Act%
157.00	100	100
75.00	77.90	102.56
155.00	77.70	72.57
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQDATA\MSVOA5\DATA\031708\K6850.D Vial: 4
 Acq On : 17 Mar 108 3:17 pm Operator: M.MILLER
 Sample : 5.0PPB ICAL STD Inst : 5971 - In
 Misc : Multiplr: 1.00
 Quant Time: Mar 18 10:46 19108

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260Voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



00117

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6851.D
 Acq On : 17 Mar 108 3:53 pm
 Sample : 10PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:49 19108

Vial: 5
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	10.82	168	367322	50.00	ppb	0.01
41) 1,4-Difluorobenzene	12.14	114	658555	50.00	ppb	0.00
69) d5-Chlorobenze	17.62	117	615575	50.00	ppb	0.00
84) d4-1,4-Dichlorobenzene	22.34	152	230674	50.00	ppb	0.00
						%Recovery
System Monitoring Compounds						
42) surr4,Dibrflmethane	10.82	113	311066	70.52	ppb	141.05%
48) surr1,1,2-Dicethane	11.44	65	296863	76.27	ppb	152.55%
67) surr3,Toluene-d8	14.83	98	988860	69.20	ppb	138.40%
68) surr2,bfb	19.94	95	414190	76.87	ppb	153.75%
						Qvalue
Target Compounds						
2) Dichlorodifluoromethane	4.11	85	39123	9.43	ppb	# 93
3) Chloromethane	4.53	50	51509	8.10	ppb	92
4) Vinyl Chloride	4.77	62	44599	7.69	ppb	93
5) Bromomethane	5.47	96	35835	10.64	ppb	96
6) Chloroethane	5.66	64	31670	8.10	ppb	96
7) Freon 21	6.01	67	87107	8.39	ppb	96
8) Trichlorofluoromethane	6.15	101	56859	10.36	ppb	96
9) Diethyl Ether	6.64	59	37123	9.19	ppb	96
10) Freon 123A	6.61	85	17809	8.24	ppb	90
11) Acrolein	6.89	56	29016	41.79	ppb	98
12) FREON 113	7.07	101	34913	8.40	ppb	94
13) Freon 123	6.72	85	36063	8.58	ppb	94
14) 1,1-Dicethene	7.11	96	37963	10.22	ppb	96
15) Acetone	7.14	43	11954	10.21	ppb	# 87
16) 2-propanol	7.27	45	38951	161.79	ppb	# 82
17) Iodomethane	7.41	142	39691	5.71	ppb	91
18) Carbon Disulfide	7.56	76	126717	7.72	ppb	100
19) Acetonitrile	7.63	41	24106	38.29	ppb	99
20) Allyl Chloride	7.71	41	67410	9.09	ppb	99
21) Methyl Acetate	7.68	43	47266	8.96	ppb	97
22) Methylene Chloride	7.91	84	48803	8.63	ppb	94
23) TBA	7.96	59	67970	184.72	ppb	97
24) Methyl-t-Butyl Ether	8.34	73	120470	9.87	ppb	97
25) Acrylonitrile	8.30	53	81385	41.70	ppb	92
26) trans-1,2-Dichloroethene	8.39	96	48224	9.85	ppb	# 94
27) DIPE	9.11	45	177312	9.20	ppb	# 84
28) 1,1-Dicethane	9.09	63	81014	8.77	ppb	# 93
29) Vinyl Acetate	9.09	86	6653	11.16	ppb	95
30) 2-Chloro-1,3-butadiene	9.26	53	53358	8.28	ppb	85
31) ETBE	9.71	59	152938	9.58	ppb	m 92
32) 2,2-Dichloropropane	10.08	77	61561	10.52	ppb	96
33) 2-Butanone	10.03	43	24892	11.01	ppb	# 83

(#) = qualifier out of range (m) = manual integration
 K6851.D WAT0317.M Wed Mar 19 09:32:27 2008

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6851.D
 Acq On : 17 Mar 108 3:53 pm
 Sample : 10PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:49 19108

Vial: 5
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) cis-1,2-Dichloroethene	10.06	96	48425	9.15	ppb	90
35) Propionitrile	10.14	54	29805	46.35	ppb	97
36) Methacrylonitrile	10.41	67	16927	8.30	ppb	74
37) Bromochloromethane	10.48	128	29425	10.30	ppb	85
38) Tetrahydrofuran	10.55	42	13541	9.82	ppb	m 90
39) Chloroform	10.55	83	77227	9.36	ppb	91
40) 1,1,1-Trichloroethane	10.94	97	59438	10.62	ppb	# 87
43) Cyclohexane	11.07	56	74402	8.91	ppb	92
44) Carbontetrachloride	11.23	117	45844	10.96	ppb	90
45) 1,1-Dichloropropene	11.21	75	65133	10.29	ppb	95
46) Iso-Butyl Alcohol	11.16	43	31539	176.63	ppb	97
47) Benzene	11.58	78	182043	9.66	ppb	97
49) 1,2-Dichloroethane	11.58	62	54384	10.09	ppb	# 87
50) TAME	11.66	73	146723	11.06	ppb	97
51) N-Heptane	11.92	43	42717	8.63	ppb	98
52) Trichloroethene	12.66	95	44782	9.69	ppb	84
53) Methylcyclohexane	13.03	55	51624	9.25	ppb	94
54) 1,2-Dicloropropane	13.06	63	53495	9.56	ppb	94
55) Methyl Methacrylate	13.12	69	32711	9.70	ppb	79
56) 1,4-Dioxane	13.23	88	6128	169.29	ppb	m 88
57) Dibromomethane	13.29	93	34719	10.67	ppb	94
58) Bromodichloromethane	13.50	83	60063	10.56	ppb	99
59) 2-Nitropropane	13.90	41	19981	21.63	ppb	89
60) 2-Chloroethylvinyl Ether	13.98	63	10845	19.40	ppb	# 89
61) cis-1,3-Dichloropropene	14.30	75	94545	11.30	ppb	100
62) 4-Methyl-2-Pentanone	14.51	43	47964	9.39	ppb	90
63) Toluene	14.97	91	190340	10.26	ppb	95
64) trans-1,3-Dichloropropene	15.29	75	81968	11.51	ppb	100
65) Ethyl Methacrylate	15.36	69	62153	10.11	ppb	87
66) 1,1,2-Trichloroethane	15.66	83	40366	10.28	ppb	94
70) Tetrachloroethene	16.01	166	45900	10.23	ppb	# 83
71) 2-Hexanone	16.08	43	33061	9.22	ppb	m 89
72) 1,3-Dichloropropane	16.00	76	87658	10.22	ppb	100
73) Dibromochloromethane	16.47	129	58548	11.94	ppb	99
74) 1,2-Dibromoethane	16.76	107	53816	10.76	ppb	92
75) Chlorobenzene	17.68	112	129477	9.99	ppb	95
76) 1,1,1,2-Tetrachloroethane	17.78	131	48401	10.90	ppb	96
77) Ethylbenzene	17.83	91	196988	9.83	ppb	99
78) (m+p)Xylene	18.06	106	136805	19.91	ppb	98
79) o-Xylene	18.87	106	65774	9.45	ppb	95
80) Styrene	18.88	104	120495	10.41	ppb	90
81) Bromoform	19.33	173	32039	10.94	ppb	88
82) Isopropylbenzene	19.58	105	169019	9.99	ppb	98
83) Cyclohexanone	19.83	55	159270	220.87	ppb	95

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6851.D
 Acq On : 17 Mar 108 3:53 pm
 Sample : 10PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:49 19108

Vial: 5
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,1,2,2-Tetrachloroethane	20.13	83	61729	10.57	ppb	96
86) 1,2,3-Trichloropropane	20.28	110	15335	9.94	ppb	96
87) Trans-1,4-Dichloro-2-Buten	20.25	53	15047	11.57	ppb	88
88) n-Propylbenzene	20.42	91	176852	10.24	ppb	92
89) Bromobenzene	20.32	156	49147	10.03	ppb	94
90) 1,3,5-Trimethylbenzene	20.74	105	103058	11.76	ppb	91
91) 2-Chlorotoluene	20.67	91	128906	10.64	ppb	97
92) 4-Chlorotoluene	20.89	91	111999	10.47	ppb	99
93) tert-Butylbenzene	21.45	119	96096	10.88	ppb	99
94) 1,2,4-Trimethylbenzene	21.56	105	95659	11.98	ppb	99
95) sec-Butylbenzene	21.91	105	124337	10.33	ppb	98
96) p-Isopropyltoluene	22.17	119	97552	11.12	ppb	93
97) 1,3-Dclbenz	22.23	146	78148	10.33	ppb	95
98) 1,4-Dclbenz	22.40	146	74974	10.44	ppb	100
99) n-Butylbenzene	23.08	91	76753	11.28	ppb	94
100) 1,2-Dclbenz	23.25	146	77013	10.68	ppb	96
101) 1,2-Dibromo-3-chloropropan	25.08	157	8904	9.19	ppb	95
103) 1,2,4-Tcbenzene	27.19	180	26234	10.57	ppb	# 81
104) Hexachlorobt	27.51	225	13476	9.90	ppb	86
105) Naphthalen	27.80	128	68532	11.48	ppb	97
106) 1,2,3-Tclbenzene	28.35	180	27155	11.98	ppb	95

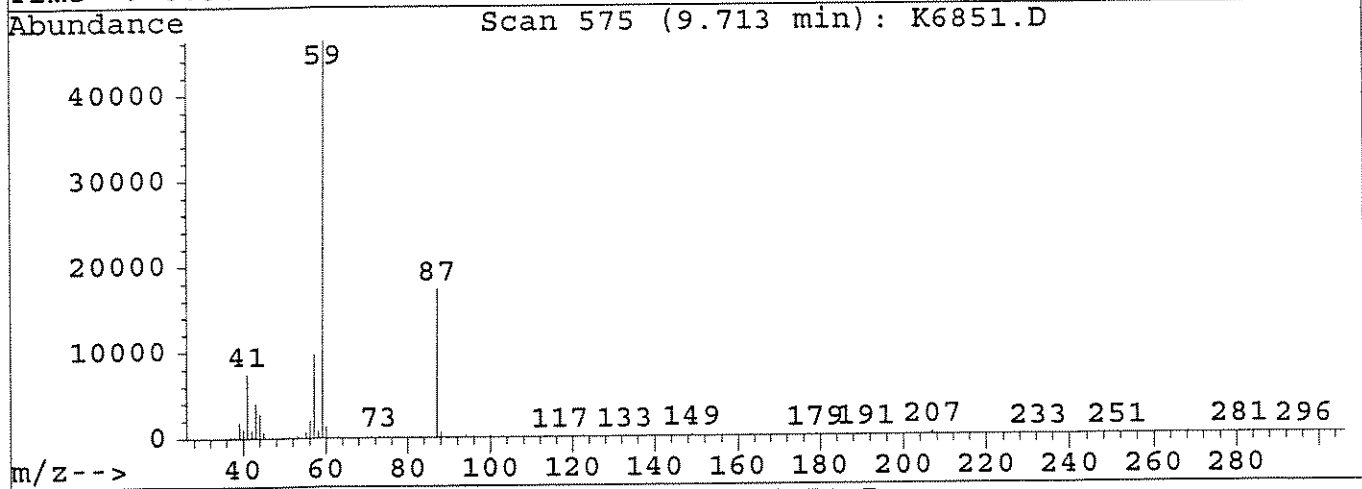
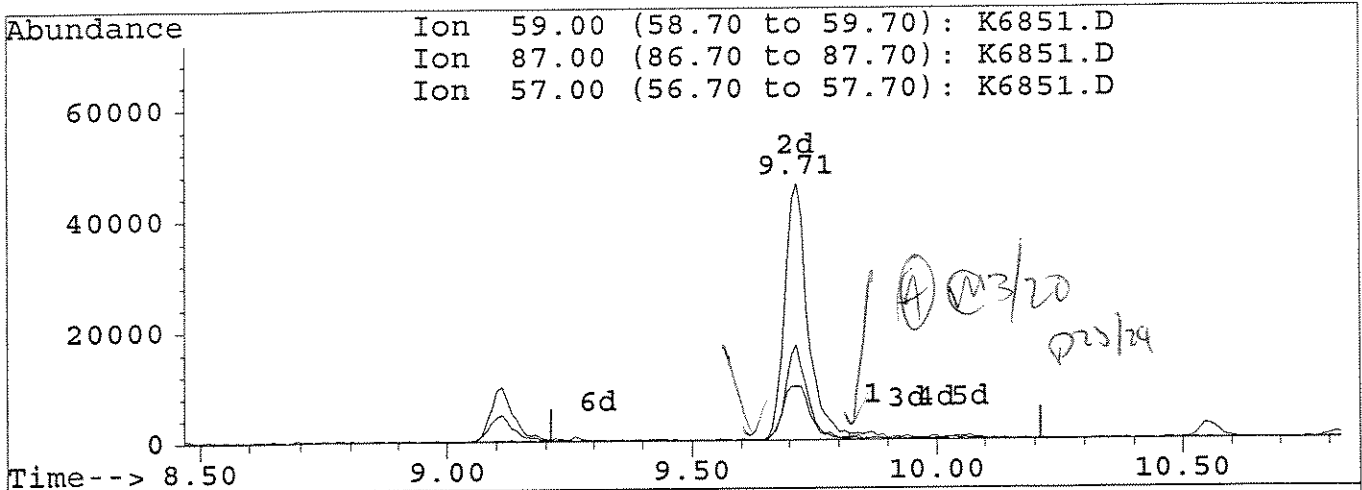
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6851.D
 Acq On : 17 Mar 108 3:53 pm
 Sample : 10PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:49 19108

Vial: 5
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6851.D

(31) ETBE
 9.71min 9.58ppb m
 response 152938

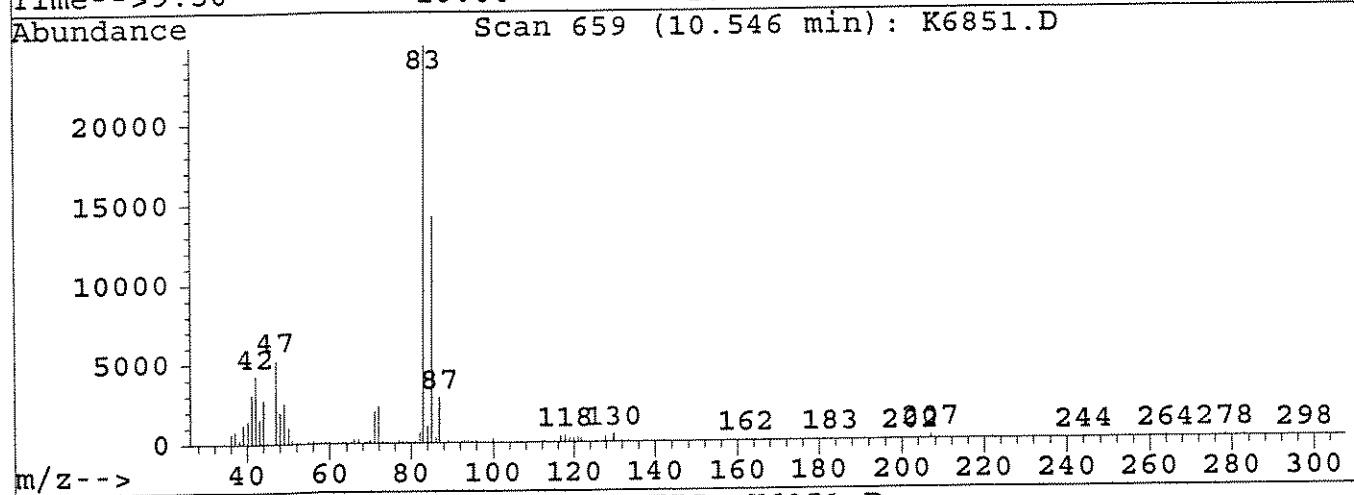
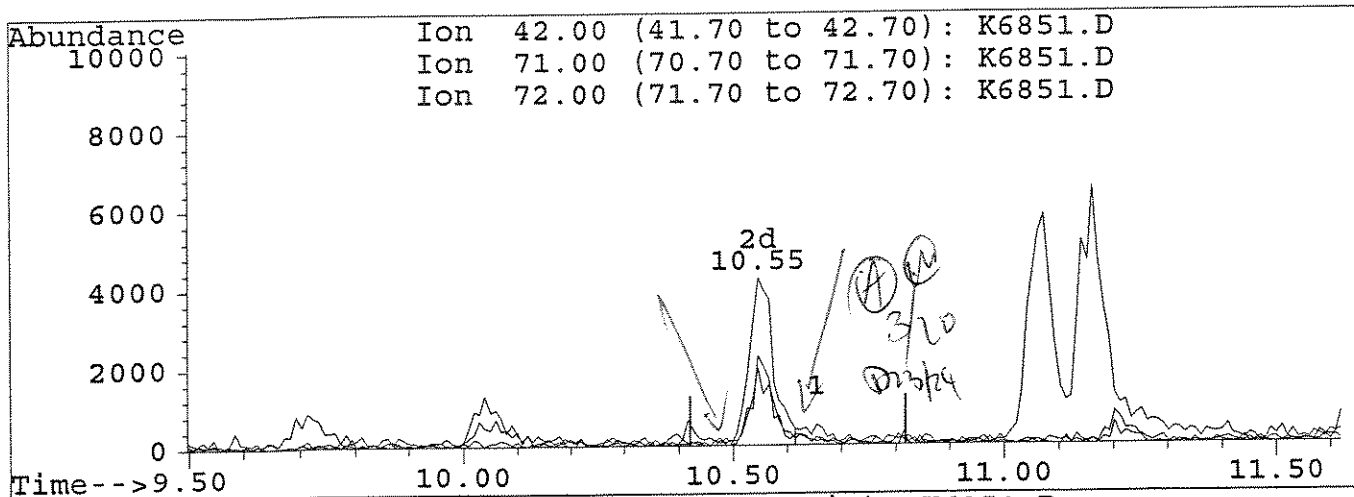
Ion	Exp%	Act%
59.00	100	100
87.00	34.70	37.29
57.00	31.30	21.03
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6851.D
 Acq On : 17 Mar 108 3:53 pm
 Sample : 10PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:49 19108

Vial: 5
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6851.D

(38) Tetrahydrofuran
 10.55min 9.82ppb m
 response 13541

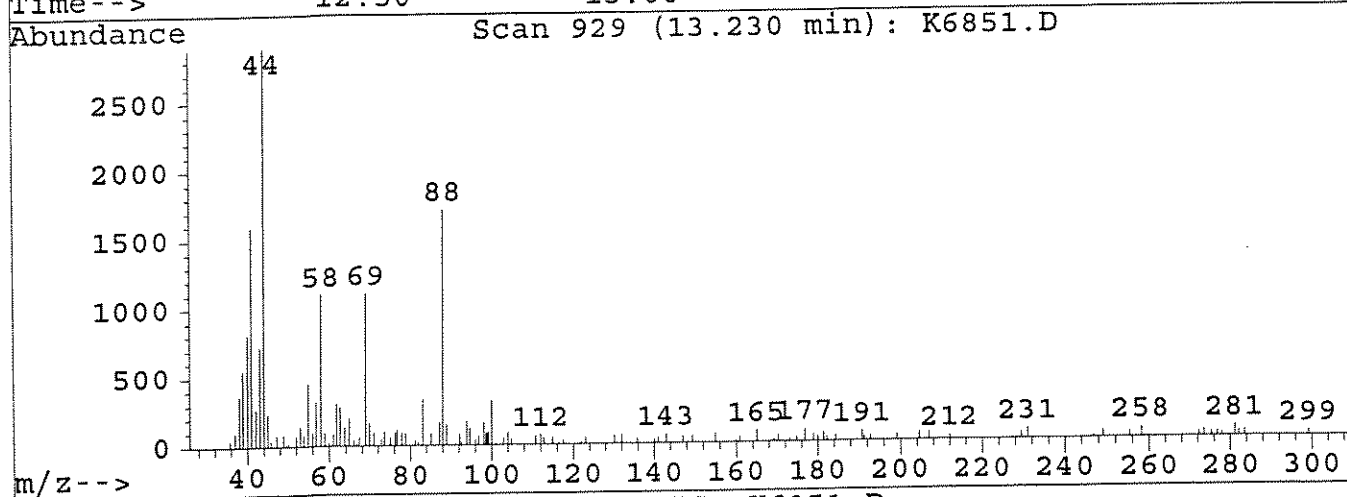
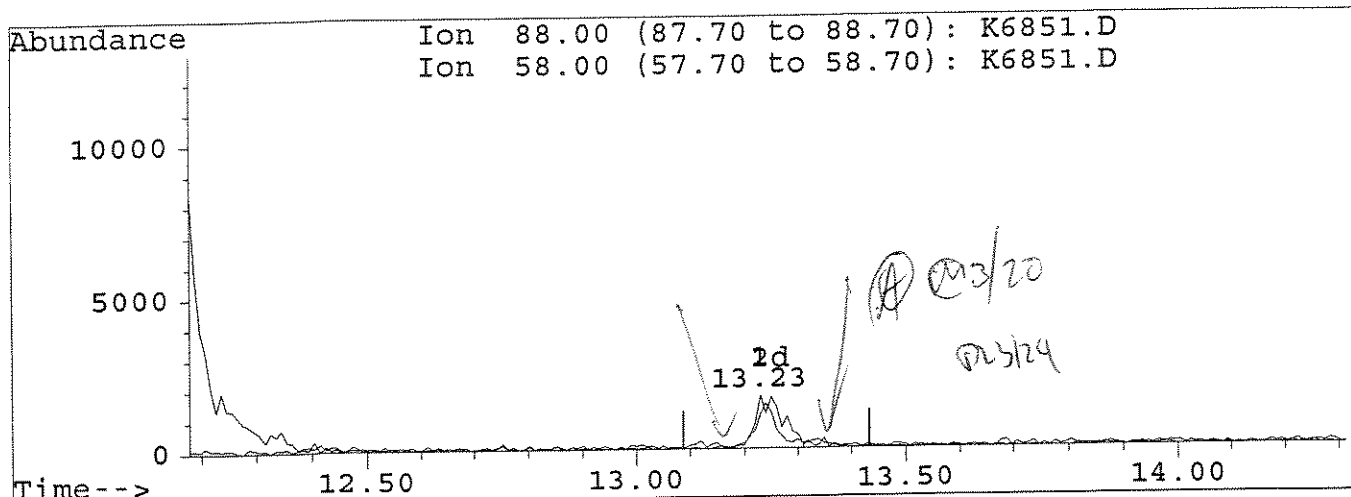
Ion	Exp%	Act%
42.00	100	100
71.00	30.30	46.21
72.00	36.60	53.81
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6851.D
 Acq On : 17 Mar 108 3:53 pm
 Sample : 10PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:49 19108

Vial: 5
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6851.D

(56) 1,4-Dioxane
 13.23min 169.29ppb m
 response 6128

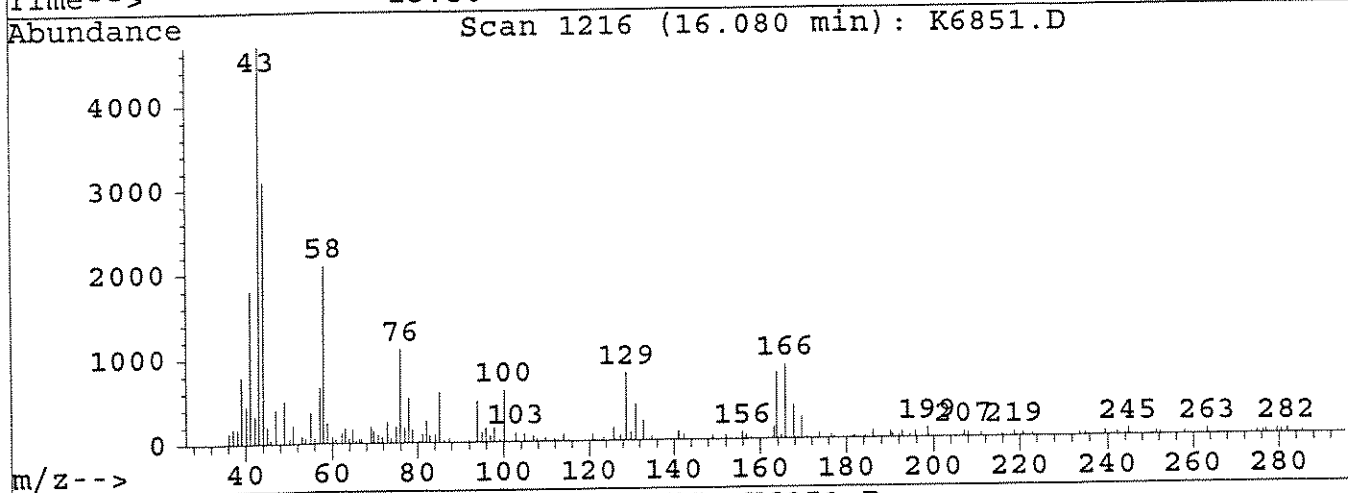
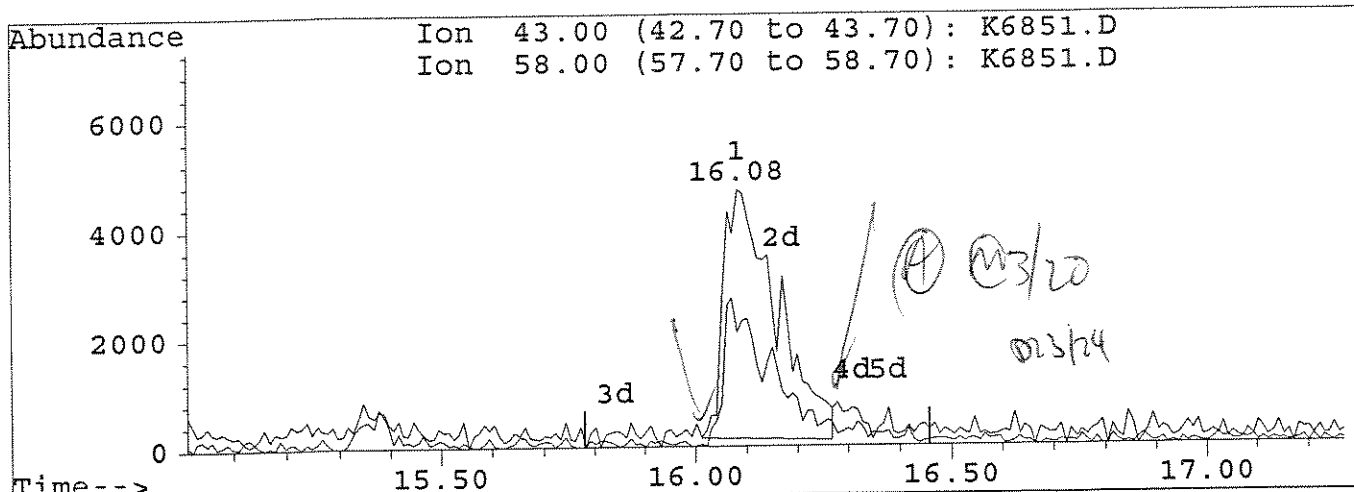
Ion	Exp%	Act%
88.00	100	100
58.00	74.50	64.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6851.D
 Acq On : 17 Mar 108 3:53 pm
 Sample : 10PPB ICAL STD
 Misc :
 Quant Time: Mar 18 10:49 19108

Vial: 5
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



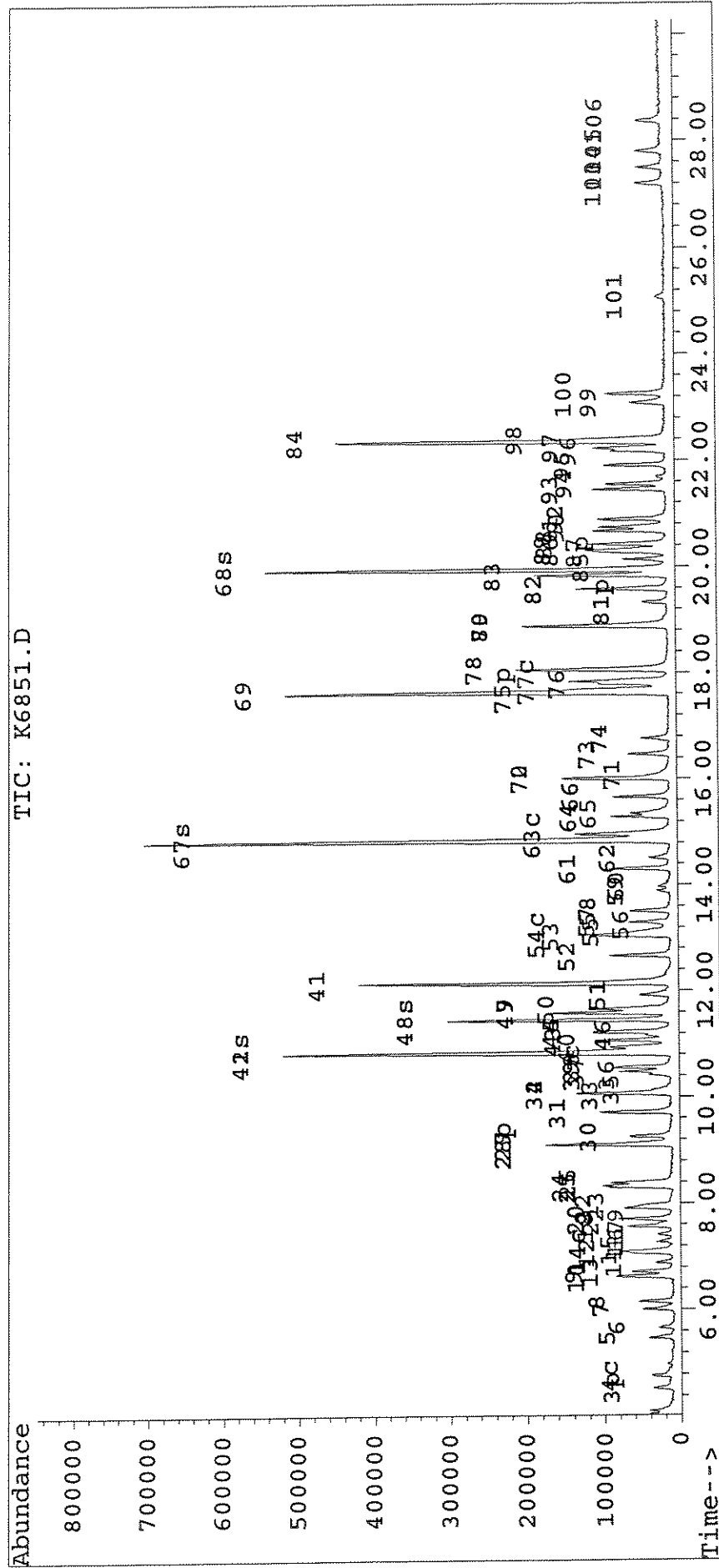
(71) 2-Hexanone
 16.08min 9.22ppb m
 response 33061

Ion	Exp%	Act%
43.00	100	100
58.00	52.50	44.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQDATA\MSVOA5\DATA\031708\K6851.D
Acq On : 17 Mar 108 3:53 pm
Sample : 10PPB ICAL STD
Misc :
Quant Time: Mar 18 10:49 19108
Vial: 5
Operator: M.MILLER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa
Last Update : Tue Mar 18 13:23:34 2008
Response via : Multiple Level Calibration



89125

Quantitation Report

W
3/2

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6852.D
 Acq On : 17 Mar 108 4:30 pm
 Sample : 50PPB ICAL STD
 Misc :
 Quant Time: Mar 18 8:46 19108

Vial: 6
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	10.81	168	369794	50.00	ppb	0.00
41) 1,4-Difluorobenzene	12.14	114	660682	50.00	ppb	0.00
69) d5-Chlorobenze	17.61	117	621445	50.00	ppb	0.00
84) d4-1,4-Dichlorobenzene	22.35	152	247639	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
42) surr4,Dibrflmethane	10.83	113	227350	51.38	ppb	102.76%
48) surr1,1,2-Dicethane	11.44	65	201867	51.70	ppb	103.40%
67) surr3,Toluene-d8	14.83	98	720623	50.27	ppb	100.54%
68) surr2,bfb	19.93	95	303442	56.14	ppb	112.28%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.12	85	204402	48.96	ppb	96
3) Chloromethane	4.53	50	251422	39.28	ppb	100
4) Vinyl Chloride	4.77	62	227510	38.99	ppb	98
5) Bromomethane	5.47	96	182422	53.83	ppb	97
6) Chloroethane	5.66	64	157230	39.95	ppb	98
7) Freon 21	6.01	67	475780	45.50	ppb	97
8) Trichlorofluoromethane	6.16	101	289604	52.42	ppb	97
9) Diethyl Ether	6.63	59	170901	42.02	ppb	98
10) Freon 123A	6.61	85	93924	43.17	ppb	91
11) Acrolein	6.88	56	161681	231.33	ppb	97
12) FREON 113	7.07	101	185707	44.39	ppb	89
13) Freon 123	6.71	85	188237	44.50	ppb	87
14) 1,1-Dicethene	7.10	96	190975	51.07	ppb	99
15) Acetone	7.14	43	52571	44.62	ppb	92
16) 2-propanol	7.28	45	201584	831.69	ppb	98
17) Iodomethane	7.41	142	274358	39.19	ppb	90
18) Carbon Disulfide	7.56	76	691956	41.86	ppb	99
19) Acetonitrile	7.61	41	133909	211.27	ppb	98
20) Allyl Chloride	7.70	41	329878	44.19	ppb	95
21) Methyl Acetate	7.67	43	230186	43.33	ppb	96
22) Methylene Chloride	7.91	84	234168	41.12	ppb	96
23) TBA	7.96	59	345660	933.10	ppb	98
24) Methyl-t-Butyl Ether	8.34	73	604671	49.22	ppb	96
25) Acrylonitrile	8.29	53	421507	214.52	ppb	95
26) trans-1,2-Dichloroethene	8.39	96	232282	47.14	ppb	97
27) DIPE	9.11	45	886335	45.70	ppb	97
28) 1,1-Dicethane	9.09	63	395406	42.53	ppb	97
29) Vinyl Acetate	9.09	86	33299	55.49	ppb	98
30) 2-Chloro-1,3-butadiene	9.25	53	313160	48.26	ppb	95
31) ETBE	9.71	59	750006	46.67	ppb	96
32) 2,2-Dichloropropane	10.08	77	327048	55.52	ppb	97
33) 2-Butanone	10.02	43	110711	48.65	ppb	97

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6852.D
 Acq On : 17 Mar 108 4:30 pm
 Sample : 50PPB ICAL STD
 Misc :
 Quant Time: Mar 18 8:46 19108

Vial: 6
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) cis-1,2-Dichloroethene	10.05	96	252192	47.34	ppb	90
35) Propionitrile	10.13	54	154560	238.75	ppb	98
36) Methacrylonitrile	10.41	67	90890	44.28	ppb	97
37) Bromochloromethane	10.48	128	140431	48.84	ppb #	82
38) Tetrahydrofuran	10.54	42	66804	48.12	ppb #	86
39) Chloroform	10.55	83	391520	47.12	ppb	98
40) 1,1,1-Trichloroethane	10.94	97	295449	52.43	ppb	97
43) Cyclohexane	11.07	56	378188	45.13	ppb	91
44) Carbontetrachloride	11.24	117	245848	58.59	ppb	99
45) 1,1-Dichloropropene	11.21	75	335508	52.83	ppb	97
46) Iso-Butyl Alcohol	11.15	43	180287	1006.43	ppb	100
47) Benzene	11.58	78	918565	48.57	ppb	100
49) 1,2-Dichloroethane	11.58	62	285660	52.84	ppb	97
50) TAME	11.65	73	726715	54.60	ppb	97
51) N-Heptane	11.91	43	238589	48.04	ppb	97
52) Trichloroethene	12.65	95	246300	53.12	ppb	93
53) Methylcyclohexane	13.04	55	292058	52.16	ppb	98
54) 1,2-Diclp propane	13.06	63	263568	46.97	ppb	100
55) Methyl Methacrylate	13.11	69	183708	54.33	ppb	93
56) 1,4-Dioxane	13.23	88	34868	960.14	ppb	93
57) Dibromomethane	13.29	93	176169	53.96	ppb	98
58) Bromodichloromethane	13.50	83	314290	55.08	ppb	99
59) 2-Nitropropane	13.88	41	102206	110.27	ppb	92
60) 2-Chloroethylvinyl Ether	13.96	63	28141	50.18	ppb #	82
61) cis-1,3-Dichloropropene	14.29	75	455619	54.27	ppb	97
62) 4-Methyl-2-Pentanone	14.50	43	274169	53.52	ppb	100
63) Toluene	14.96	91	940170	50.51	ppb	99
64) trans-1,3-Dichloropropene	15.28	75	406777	56.95	ppb	97
65) Ethyl Methacrylate	15.34	69	350898	56.89	ppb	99
66) 1,1,2-Trichloroethane	15.65	83	194543	49.40	ppb	98
70) Tetrachloroethene	16.01	166	244520	54.00	ppb	94
71) 2-Hexanone	16.05	43	182245	50.36	ppb	97
72) 1,3-Dichloropropene	16.00	76	430575	49.72	ppb	96
73) Dibromochloromethane	16.46	129	291106	58.82	ppb	94
74) 1,2-Dibromoethane	16.74	107	275169	54.51	ppb	98
75) Chlorobenzene	17.67	112	648953	49.58	ppb	96
76) 1,1,1,2-Tetrachloroethane	17.78	131	258378	57.63	ppb	97
77) Ethylbenzene	17.83	91	1031144	50.98	ppb	99
78) (m+p)Xylene	18.05	106	724373	104.41	ppb	96
79) o-Xylene	18.86	106	358855	51.09	ppb	100
80) Styrene	18.87	104	625132	53.52	ppb	95
81) Bromoform	19.32	173	178989	60.54	ppb	96
82) Isopropylbenzene	19.58	105	900688	52.72	ppb	99
83) Cyclohexanone	19.82	55	762689	1047.68	ppb	96

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

Quantitation Report

Data File : J:\ACQUADATA\MSVOA5\DATA\031708\K6852.D
 Acq On : 17 Mar 108 4:30 pm
 Sample : 50PPB ICAL STD
 Misc :
 Quant Time: Mar 18 8:46 19108

Vial: 6
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUADATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

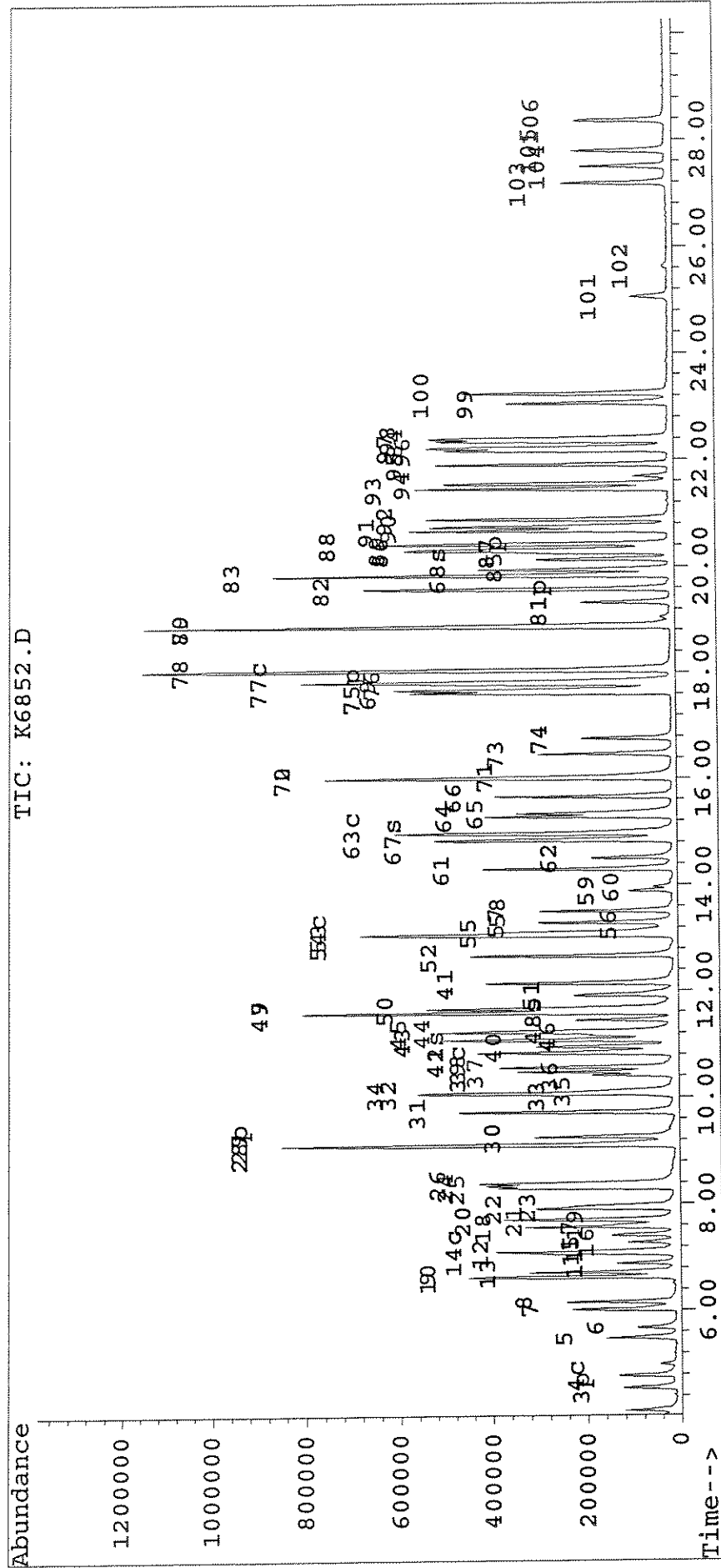
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,1,2,2-Tetrachloroethane	20.13	83	311038	49.63	ppb	99
86) 1,2,3-Trichloropropane	20.28	110	87382	52.74	ppb	93
87) Trans-1,4-Dichloro-2-Buten	20.24	53	68819	49.28	ppb	80
88) n-Propylbenzene	20.41	91	986133	53.20	ppb	98
89) Bromobenzene	20.32	156	262714	49.93	ppb	81
90) 1,3,5-Trimethylbenzene	20.74	105	566774	60.25	ppb	99
91) 2-Chlorotoluene	20.67	91	691959	53.21	ppb	100
92) 4-Chlorotoluene	20.87	91	626153	54.50	ppb	100
93) tert-Butylbenzene	21.45	119	525390	55.43	ppb	97
94) 1,2,4-Trimethylbenzene	21.55	105	529537	61.79	ppb	97
95) sec-Butylbenzene	21.90	105	692838	53.64	ppb	100
96) p-Isopropyltoluene	22.17	119	568956	60.39	ppb	98
97) 1,3-Dclbenz	22.22	146	421508	51.92	ppb	96
98) 1,4-Dclbenz	22.40	146	413596	53.67	ppb	96
99) n-Butylbenzene	23.05	91	443880	60.79	ppb	98
100) 1,2-Dclbenz	23.24	146	407262	52.61	ppb	98
101) 1,2-Dibromo-3-chloropropan	25.05	157	56381	54.19	ppb	95
102) Nitrobenzene	25.63	77	16369	53.32	ppb	100
103) 1,2,4-Tcbenzene	27.18	180	162858	61.12	ppb	98
104) Hexachlorobt	27.49	225	69920	47.85	ppb	90
105) Naphthalen	27.79	128	369287	57.60	ppb	99
106) 1,2,3-Tclbenzene	28.36	180	144209	59.27	ppb	89

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

Quantitation Report

Data File : J:\ACQDATA\MSVOA5\DATA\031708\K6852.D Vial: 6
 Acq On : 17 Mar 108 4:30 pm Operator: M.MILLER
 Sample : 50PPB ICAL STD Inst : 5971 - In
 Misc : Multiplr: 1.00
 Quant Time: Mar 18 8:46 19108

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



00129

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6853.D
 Acq On : 17 Mar 108 5:06 pm
 Sample : 100PPB ICAL STD
 Misc :
 Quant Time: Mar 18 8:47 19108

Vial: 7
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	10.82	168	374682	50.00	ppb	0.00
41) 1,4-Difluorobenzene	12.14	114	670814	50.00	ppb	0.00
69) d5-Chlorobenze	17.62	117	629398	50.00	ppb	0.00
84) d4-1,4-Dichlorobenzene	22.34	152	255916	50.00	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
42) surr4,Dibrflmethane	10.83	113	487075	108.41	ppb	216.82%
48) surr1,1,2-Dicethane	11.43	65	425676	107.37	ppb	214.74%
67) surr3,Toluene-d8	14.83	98	1480770	101.73	ppb	203.47%
68) surr2,bfb	19.93	95	619402	112.86	ppb	225.72%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.11	85	390321	92.28	ppb	# 96
3) Chloromethane	4.53	50	508708	78.43	ppb	93
4) Vinyl Chloride	4.76	62	440260	74.46	ppb	99
5) Bromomethane	5.48	96	376635	109.68	ppb	97
6) Chloroethane	5.66	64	309129	77.51	ppb	99
7) Freon 21	6.01	67	975611	92.08	ppb	98
8) Trichlorofluoromethane	6.15	101	602207	107.57	ppb	96
9) Diethyl Ether	6.63	59	342188	83.04	ppb	98
10) Freon 123A	6.62	85	185737	84.26	ppb	# 90
11) Acrolein	6.87	56	342023	482.98	ppb	97
12) FREON 113	7.06	101	365989	86.33	ppb	99
13) Freon 123	6.71	85	401722	93.73	ppb	95
14) 1,1-Dicethene	7.10	96	395340	104.35	ppb	98
15) Acetone	7.12	43	105331	88.24	ppb	88
16) 2-propanol	7.27	45	421788	1717.51	ppb	98
17) Iodomethane	7.41	142	635249	89.56	ppb	96
18) Carbon Disulfide	7.56	76	1468413	87.67	ppb	99
19) Acetonitrile	7.61	41	260871	406.22	ppb	96
20) Allyl Chloride	7.71	41	668514	88.39	ppb	94
21) Methyl Acetate	7.68	43	462296	85.90	ppb	100
22) Methylene Chloride	7.90	84	466660	80.89	ppb	99
23) TBA	7.95	59	686980	1830.29	ppb	99
24) Methyl-t-Butyl Ether	8.33	73	1207263	96.98	ppb	97
25) Acrylonitrile	8.28	53	855584	429.76	ppb	95
26) trans-1,2-Dichloroethene	8.38	96	463700	92.87	ppb	99
27) DIPE	9.11	45	1765338	89.83	ppb	99
28) 1,1-Dicethane	9.09	63	786764	83.51	ppb	98
29) Vinyl Acetate	9.09	86	70162	115.39	ppb	99
30) 2-Chloro-1,3-butadiene	9.24	53	651633	99.10	ppb	98
31) ETBE	9.71	59	1500621	92.16	ppb	97
32) 2,2-Dichloropropane	10.07	77	628546	105.31	ppb	97
33) 2-Butanone	10.02	43	229177	99.40	ppb	98

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6853.D
 Acq On : 17 Mar 108 5:06 pm
 Sample : 100PPB ICAL STD
 Misc :
 Quant Time: Mar 18 8:47 19108

Vial: 7
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) cis-1,2-Dichloroethene	10.06	96	502613	93.11	ppb	99
35) Propionitrile	10.12	54	295383	450.34	ppb	96
36) Methacrylonitrile	10.40	67	188760	90.76	ppb	94
37) Bromochloromethane	10.47	128	284710	97.73	ppb	85
38) Tetrahydrofuran	10.54	42	132189	93.97	ppb	# 87
39) Chloroform	10.55	83	782312	92.92	ppb	95
40) 1,1,1-Trichloroethane	10.94	97	596671	104.51	ppb	98
43) Cyclohexane	11.07	56	783554	92.10	ppb	94
44) Carbontetrachloride	11.24	117	514202	120.70	ppb	98
45) 1,1-Dichloropropene	11.21	75	660330	102.41	ppb	97
46) Iso-Butyl Alcohol	11.15	43	358806	1972.75	ppb	100
47) Benzene	11.58	78	1830640	95.34	ppb	99
49) 1,2-Dichloroethane	11.57	62	565060	102.94	ppb	98
50) TAME	11.65	73	1499469	110.96	ppb	98
51) N-Heptane	11.90	43	473448	93.88	ppb	95
52) Trichloroethene	12.65	95	490515	104.19	ppb	91
53) Methylcyclohexane	13.04	55	581781	102.33	ppb	94
54) 1,2-Diclpropane	13.07	63	527360	92.55	ppb	99
55) Methyl Methacrylate	13.10	69	378186	110.15	ppb	92
56) 1,4-Dioxane	13.24	88	68267	1851.44	ppb	99
57) Dibromomethane	13.28	93	346736	104.60	ppb	98
58) Bromodichloromethane	13.49	83	636864	109.93	ppb	99
59) 2-Nitropropane	13.88	41	199658	212.15	ppb	94
60) 2-Chloroethylvinyl Ether	13.96	63	30009	52.71	ppb	98
61) cis-1,3-Dichloropropene	14.29	75	899428	105.51	ppb	100
62) 4-Methyl-2-Pentanone	14.50	43	551980	106.12	ppb	100
63) Toluene	14.96	91	1852267	98.01	ppb	100
64) trans-1,3-Dichloropropene	15.27	75	810157	111.70	ppb	99
65) Ethyl Methacrylate	15.34	69	696782	111.27	ppb	95
66) 1,1,2-Trichloroethane	15.64	83	392248	98.10	ppb	99
70) Tetrachloroethene	16.01	166	471853	102.89	ppb	97
71) 2-Hexanone	16.04	43	366971	100.12	ppb	98
72) 1,3-Dichloropropene	15.99	76	838228	95.56	ppb	100
73) Dibromochloromethane	16.46	129	582850	116.28	ppb	100
74) 1,2-Dibromoethane	16.75	107	528827	103.43	ppb	100
75) Chlorobenzene	17.68	112	1298227	97.94	ppb	96
76) 1,1,1,2-Tetrachloroethane	17.79	131	500296	110.18	ppb	98
77) Ethylbenzene	17.82	91	2072995	101.19	ppb	99
78) (m+p)Xylene	18.04	106	1469326	209.11	ppb	99
79) o-Xylene	18.85	106	722318	101.54	ppb	94
80) Styrene	18.87	104	1289382	108.99	ppb	97
81) Bromoform	19.32	173	349088	116.58	ppb	96
82) Isopropylbenzene	19.57	105	1805979	104.38	ppb	99
83) Cyclohexanone	19.83	55	1320768	1791.37	ppb	96

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6853.D
 Acq On : 17 Mar 108 5:06 pm
 Sample : 100PPB ICAL STD
 Misc :
 Quant Time: Mar 18 8:47 19108

Vial: 7
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

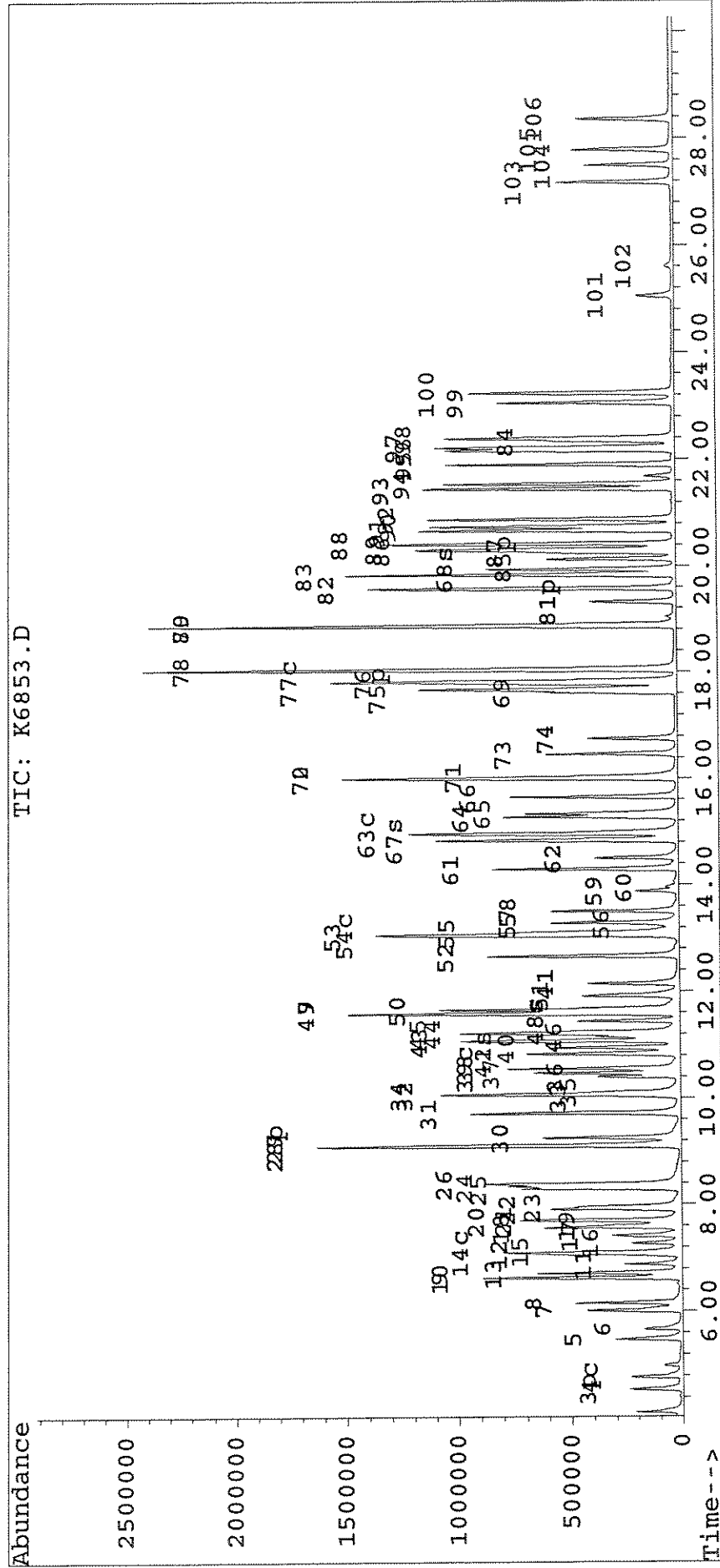
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,1,2,2-Tetrachloroethane	20.12	83	610645	94.28	ppb	100
86) 1,2,3-Trichloropropane	20.28	110	174579	101.96	ppb	97
87) Trans-1,4-Dichloro-2-Buten	20.24	53	144547	100.17	ppb	83
88) n-Propylbenzene	20.41	91	2014062	105.14	ppb	97
89) Bromobenzene	20.31	156	524545	96.46	ppb	90
90) 1,3,5-Trimethylbenzene	20.74	105	1155808	118.89	ppb	100
91) 2-Chlorotoluene	20.66	91	1409409	104.87	ppb	97
92) 4-Chlorotoluene	20.88	91	1290722	108.72	ppb	96
93) tert-Butylbenzene	21.44	119	1065227	108.75	ppb	98
94) 1,2,4-Trimethylbenzene	21.54	105	1099040	124.10	ppb	97
95) sec-Butylbenzene	21.90	105	1422889	106.59	ppb	100
96) p-Isopropyltoluene	22.17	119	1195208	122.77	ppb	96
97) 1,3-Dclbenz	22.22	146	855510	101.97	ppb	95
98) 1,4-Dclbenz	22.40	146	842481	105.78	ppb	98
99) n-Butylbenzene	23.05	91	942275	124.88	ppb	98
100) 1,2-Dclbenz	23.24	146	835797	104.49	ppb	96
101) 1,2-Dibromo-3-chloropropan	25.05	157	117425	109.21	ppb	97
102) Nitrobenzene	25.60	77	41295	130.17	ppb	# 71
103) 1,2,4-Tcbenzene	27.17	180	341827	124.13	ppb	93
104) Hexachlorobt	27.49	225	140997	93.37	ppb	86
105) Naphthalen	27.78	128	810472	122.32	ppb	99
106) 1,2,3-Tclbenzene	28.35	180	321468	127.84	ppb	98

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

Quantitation Report

Data File : J:\ACQDATA\MSVOA5\DATA\031708\K6853.D Vial: 7
Acq On : 17 Mar 108 5:06 pm Operator: M.MILLER
Sample : 100PPB ICAL STD Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Mar 18 8:47 19108

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa
Last Update : Tue Mar 18 13:23:34 2008
Response via : Multiple Level Calibration



Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6854.D
 Acq On : 17 Mar 108 5:43 pm
 Sample : 150PPB ICAL STD
 Misc :
 Quant Time: Mar 18 11:29 19108

Vial: 8
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

①
 3/18

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.81	168	361468	50.00	ppb	0.00
41) 1,4-Difluorobenzene	12.13	114	653819	50.00	ppb	0.00
69) d5-Chlorobenze	17.62	117	607553	50.00	ppb	0.00
84) d4-1,4-Dichlorobenzene	22.35	152	256646	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
42) surr4,Dibrflmethane	10.83	113	593920	135.63	ppb	271.25%
48) surr1,1,2-Diclethane	11.44	65	523315	135.43	ppb	270.86%
67) surr3,Toluene-d8	14.83	98	1827342	128.81	ppb	257.61%
68) surr2,bfb	19.93	95	763581	142.75	ppb	285.49%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.11	85	578758	141.83	ppb	99
3) Chloromethane	4.54	50	739595	118.20	ppb	96
4) Vinyl Chloride	4.76	62	642378	112.62	ppb	96
5) Bromomethane	5.47	96	555513	167.69	ppb	98
6) Chloroethane	5.67	64	456421	118.63	ppb	99
7) Freon 21	6.01	67	1485745	145.35	ppb	98
8) Trichlorofluoromethane	6.16	101	876076	162.21	ppb	96
9) Diethyl Ether	6.63	59	505881	127.25	ppb	95
10) Freon 123A	6.61	85	299037	140.61	ppb	# 88
11) Acrolein	6.87	56	502059	734.88	ppb	99
12) FREON 113	7.06	101	544180	133.06	ppb	98
13) Freon 123	6.71	85	623793	150.87	ppb	m 86
14) 1,1-Diclethene	7.10	96	579793	158.63	ppb	97
15) Acetone	7.12	43	161890	140.58	ppb	90
16) 2-propanol	7.27	45	631779	2666.63	ppb	99
17) Iodomethane	7.41	142	976838	142.75	ppb	91
18) Carbon Disulfide	7.57	76	2217902	137.26	ppb	100
19) Acetonitrile	7.61	41	370161	597.47	ppb	98
20) Allyl Chloride	7.70	41	949881	130.19	ppb	97
21) Methyl Acetate	7.68	43	690618	133.01	ppb	93
22) Methylene Chloride	7.91	84	693097	124.53	ppb	99
23) TBA	7.96	59	980623	2708.14	ppb	98
24) Methyl-t-Butyl Ether	8.33	73	1744296	145.25	ppb	96
25) Acrylonitrile	8.28	53	1243297	647.34	ppb	97
26) trans-1,2-Dichloroethene	8.38	96	694831	144.25	ppb	95
27) DIPE	9.11	45	2642193	139.37	ppb	94
28) 1,1-Diclethane	9.09	63	1171117	128.86	ppb	98
29) Vinyl Acetate	9.09	86	101722	173.42	ppb	88
30) 2-Chloro-1,3-butadiene	9.25	53	981599	154.74	ppb	98
31) ETBE	9.71	59	2249726	143.21	ppb	96
32) 2,2-Dichloropropane	10.08	77	907743	157.64	ppb	94
33) 2-Butanone	10.01	43	338331	152.10	ppb	96

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6854.D
 Acq On : 17 Mar 108 5:43 pm
 Sample : 150PPB ICAL STD
 Misc :
 Quant Time: Mar 18 11:29 19108

Vial: 8
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) cis-1,2-Dichloroethene	10.05	96	738532	141.81	ppb	98
35) Propionitrile	10.12	54	421978	666.86	ppb	98
36) Methacrylonitrile	10.40	67	273743	136.43	ppb	98
37) Bromochloromethane	10.47	128	416842	148.32	ppb	89
38) Tetrahydrofuran	10.55	42	192047	141.52	ppb	0
39) Chloroform	10.55	83	1159378	142.74	ppb	99
40) 1,1,1-Trichloroethane	10.94	97	901610	163.69	ppb	96
43) Cyclohexane	11.07	56	1204582	145.27	ppb	93
44) Carbontetrachloride	11.24	117	767361	184.80	ppb	98
45) 1,1-Dichloropropene	11.21	75	971433	154.58	ppb	99
46) Iso-Butyl Alcohol	11.15	43	504773	2847.42	ppb	98
47) Benzene	11.58	78	2663756	142.34	ppb	100
49) 1,2-Dichloroethane	11.57	62	845862	158.10	ppb	97
50) TAME	11.66	73	2170392	164.78	ppb	97
51) N-Heptane	11.91	43	669386	136.19	ppb	97
52) Trichloroethene	12.66	95	720006	156.92	ppb	92
53) Methylcyclohexane	13.04	55	893437	161.23	ppb	95
54) 1,2-Diclpropane	13.06	63	773476	139.27	ppb	100
55) Methyl Methacrylate	13.10	69	554582	165.73	ppb	94
56) 1,4-Dioxane	13.24	88	104436	2905.98	ppb	90
57) Dibromomethane	13.28	93	497458	153.97	ppb	99
58) Bromodichloromethane	13.50	83	936751	165.90	ppb	97
59) 2-Nitropropane	13.87	41	299746	326.78	ppb	96
60) 2-Chloroethylvinyl Ether	13.96	63	36817	66.34	ppb	91
61) cis-1,3-Dichloropropene	14.29	75	1324272	159.39	ppb	99
62) 4-Methyl-2-Pentanone	14.49	43	809056	159.59	ppb	98
63) Toluene	14.96	91	2792972	151.63	ppb	99
64) trans-1,3-Dichloropropene	15.27	75	1192455	168.69	ppb	99
65) Ethyl Methacrylate	15.33	69	1015200	166.33	ppb	96
66) 1,1,2-Trichloroethane	15.65	83	565399	145.08	ppb	98
70) Tetrachloroethene	16.01	166	716374	161.83	ppb	97
71) 2-Hexanone	16.03	43	566129	160.01	ppb	100
72) 1,3-Dichloropropane	15.99	76	1221211	144.23	ppb	99
73) Dibromochloromethane	16.46	129	867491	179.29	ppb	100
74) 1,2-Dibromoethane	16.75	107	769576	155.92	ppb	96
75) Chlorobenzene	17.68	112	1928329	150.70	ppb	96
76) 1,1,1,2-Tetrachloroethane	17.79	131	737967	168.36	ppb	98
77) Ethylbenzene	17.82	91	3028314	153.14	ppb	100
78) (m+p)Xylene	18.04	106	2165662	319.28	ppb	98
79) o-Xylene	18.86	106	1095151	159.48	ppb	92
80) Styrene	18.87	104	1935783	169.52	ppb	95
81) Bromoform	19.32	173	511941	177.11	ppb	97
82) Isopropylbenzene	19.57	105	2662602	159.42	ppb	100
83) Cyclohexanone	19.83	55	2081136	2924.15	ppb	97

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6854.D
 Acq On : 17 Mar 108 5:43 pm
 Sample : 150PPB ICAL STD
 Misc :
 Quant Time: Mar 18 11:29 19108

Vial: 8
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,1,2,2-Tetrachloroethane	20.13	83	893874	137.62	ppb	97
86) 1,2,3-Trichloropropane	20.28	110	248185	144.54	ppb	90
87) Trans-1,4-Dichloro-2-Buten	20.25	53	208077	143.78	ppb	84
88) n-Propylbenzene	20.41	91	3036284	158.05	ppb	98
89) Bromobenzene	20.31	156	772449	141.64	ppb	95
90) 1,3,5-Trimethylbenzene	20.73	105	1733420	177.80	ppb	99
91) 2-Chlorotoluene	20.66	91	2121868	157.44	ppb	96
92) 4-Chlorotoluene	20.87	91	1966785	165.19	ppb	100
93) tert-Butylbenzene	21.45	119	1636374	166.59	ppb	93
94) 1,2,4-Trimethylbenzene	21.54	105	1655154	186.36	ppb	95
95) sec-Butylbenzene	21.90	105	2184607	163.19	ppb	100
96) p-Isopropyltoluene	22.17	119	1800694	184.44	ppb	98
97) 1,3-Dclbenz	22.22	146	1287860	153.07	ppb	98
98) 1,4-Dclbenz	22.40	146	1286084	161.02	ppb	99
99) n-Butylbenzene	23.05	91	1433213	189.40	ppb	99
100) 1,2-Dclbenz	23.24	146	1246610	155.40	ppb	99
101) 1,2-Dibromo-3-chloropropan	25.06	157	171502	159.04	ppb	98
102) Nitrobenzene	25.61	77	67038	210.72	ppb #	68
103) 1,2,4-Tcbenzene	27.17	180	522401	189.16	ppb	99
104) Hexachlorobt	27.50	225	219137	144.71	ppb #	83
105) Naphthalen	27.78	128	1232143	185.43	ppb	99
106) 1,2,3-Tclbenzene	28.35	180	488134	193.57	ppb	97

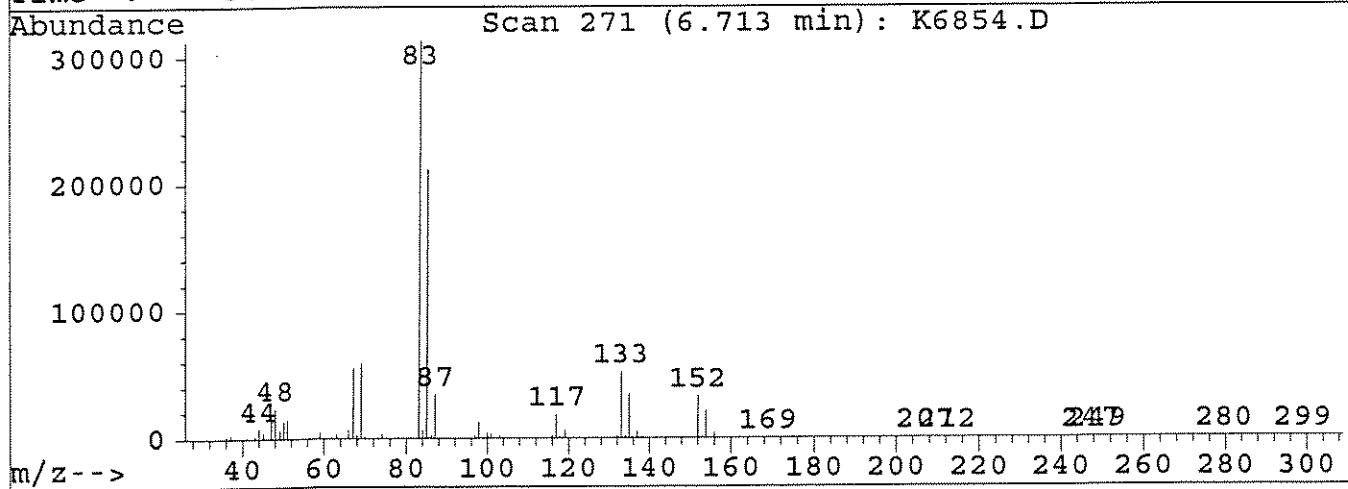
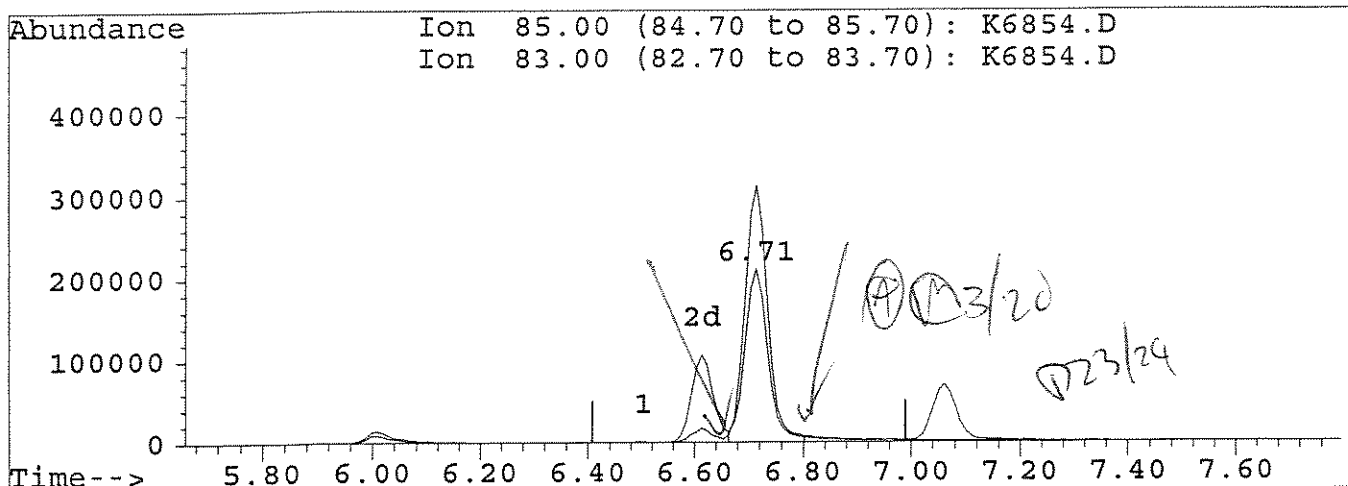
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6854.D
 Acq On : 17 Mar 108 5:43 pm
 Sample : 150PPB ICAL STD
 Misc :
 Quant Time: Mar 18 11:29 19108

Vial: 8
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6854.D

(13) Freon 123
 6.71min 150.87ppb m
 response 623793

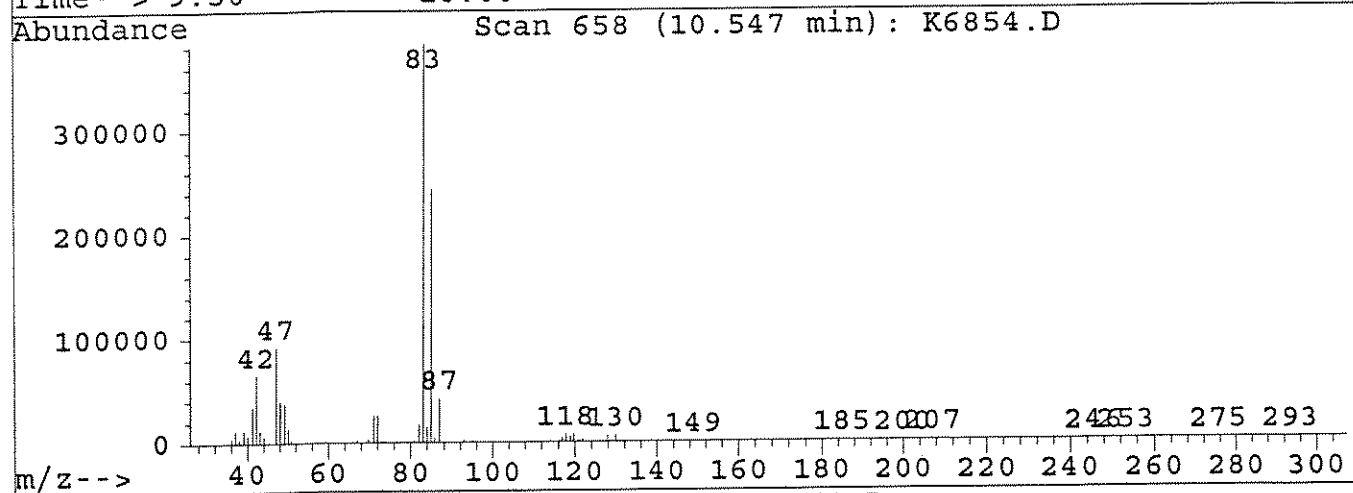
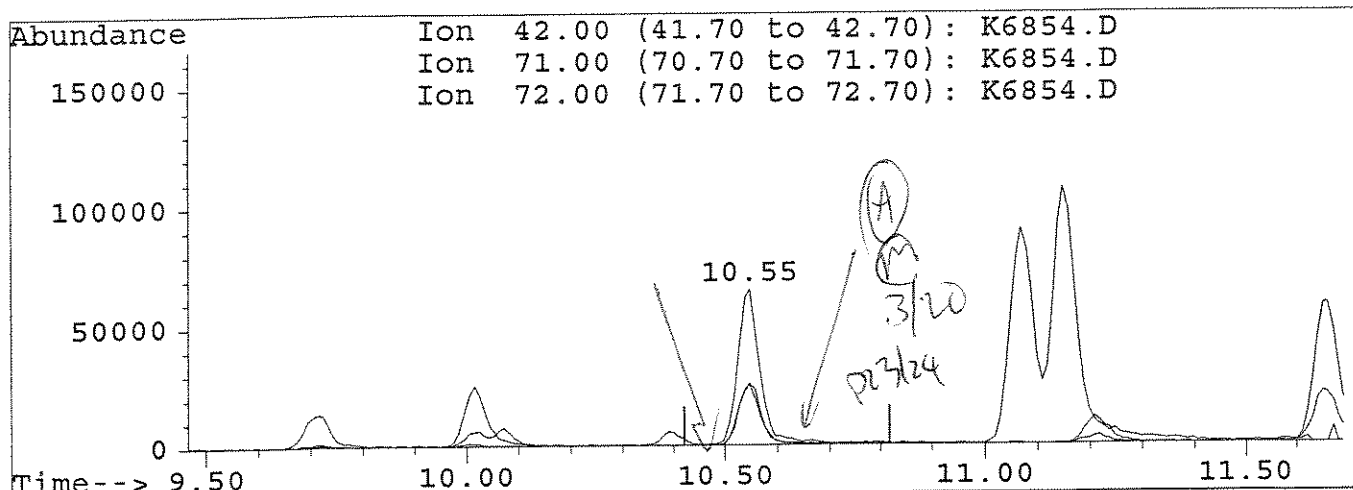
Ion	Exp%	Act%
85.00	100	100
83.00	151.40	148.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6854.D
 Acq On : 17 Mar 108 5:43 pm
 Sample : 150PPB ICAL STD
 Misc :
 Quant Time: Mar 18 11:29 19108

Vial: 8
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



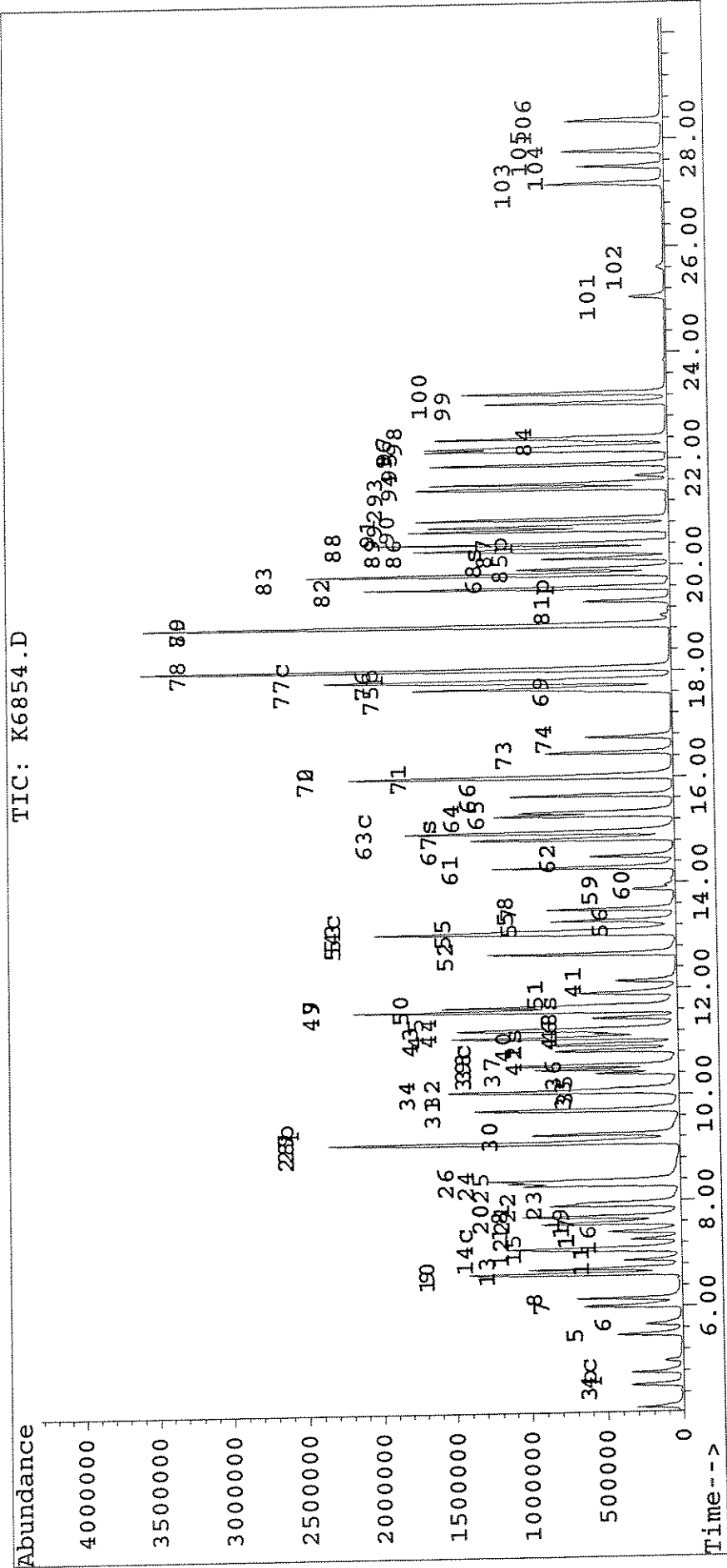
(38) Tetrahydrofuran
 10.55min 141.52ppb m
 response 192047

Ion	Exp%	Act%
42.00	100	100
71.00	30.30	39.35
72.00	36.60	39.45
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQDATA\MSVOA5\DATA\031708\K6854.D Vial: 8
Acq On : 17 Mar 108 5:43 pm Operator: M.MILLER
Sample : 150PPB ICAL STD Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Mar 18 11:29 19108

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260Voa
Last Update : Tue Mar 18 13:23:34 2008
Response via : Multiple Level Calibration



00100

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6855.D
 Acq On : 17 Mar 108 6:19 pm
 Sample : 200PPB ICAL STD
 Misc :
 Quant Time: Mar 18 11:34 19108

Vial: 9
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

W
 370

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	10.81	168	389507	50.00	ppb	0.00
41) 1,4-Difluorobenzene	12.14	114	681159	50.00	ppb	0.00
69) d5-Chlorobenze	17.62	117	641369	50.00	ppb	0.00
84) d4-1,4-Dichlorobenzene	22.34	152	267924	50.00	ppb	0.00
						%Recovery
System Monitoring Compounds						
42) surr4,Dibrflmethane	10.83	113	735448	161.20	ppb	322.41%
48) surr1,1,2-Dicethane	11.45	65	629900	156.47	ppb	312.94%
67) surr3,Toluene-d8	14.83	98	2211275	149.61	ppb	299.23%
68) surr2,bfb	19.93	95	930845	167.03	ppb	334.06%
						Qvalue
Target Compounds						
2) Dichlorodifluoromethane	4.12	85	793524	180.47	ppb	98
3) Chloromethane	4.53	50	1010290	149.84	ppb	99
4) Vinyl Chloride	4.76	62	898806	146.23	ppb	99
5) Bromomethane	5.47	96	764935	214.28	ppb	97
6) Chloroethane	5.67	64	621055	149.80	ppb	99
7) Freon 21	6.01	67	1974614	179.27	ppb	99
8) Trichlorofluoromethane	6.15	101	1196327	205.56	ppb	98
9) Diethyl Ether	6.63	59	661298	154.38	ppb	95
10) Freon 123A	6.61	85	398425	173.86	ppb	# 90
11) Acrolein	6.88	56	692380	940.51	ppb	99
12) FREON 113	7.06	101	751634	170.56	ppb	95
13) Freon 123	6.71	85	834072	187.20	ppb	m 1
14) 1,1-Dicethene	7.10	96	806028	204.65	ppb	95
15) Acetone	7.13	43	200422	161.51	ppb	92
16) 2-propanol	7.27	45	843014	3302.07	ppb	97
17) Iodomethane	7.41	142	1416270	192.06	ppb	92
18) Carbon Disulfide	7.57	76	2989891	171.71	ppb	99
19) Acetonitrile	7.61	41	514382	770.49	ppb	100
20) Allyl Chloride	7.71	41	1316824	167.49	ppb	95
21) Methyl Acetate	7.68	43	900408	160.93	ppb	95
22) Methylene Chloride	7.91	84	952312	158.78	ppb	99
23) TBA	7.96	59	1368263	3506.66	ppb	97
24) Methyl-t-Butyl Ether	8.33	73	2399571	185.43	ppb	97
25) Acrylonitrile	8.28	53	1685559	814.43	ppb	94
26) trans-1,2-Dichloroethene	8.38	96	963012	185.53	ppb	99
27) DIPE	9.11	45	3606933	176.56	ppb	94
28) 1,1-Dicethane	9.09	63	1605706	163.95	ppb	97
29) Vinyl Acetate	9.09	86	137152	216.99	ppb	81
30) 2-Chloro-1,3-butadiene	9.25	53	1304524	190.84	ppb	98
31) ETBE	9.72	59	3021797	178.52	ppb	97
32) 2,2-Dichloropropane	10.08	77	1248230	201.17	ppb	93
33) 2-Butanone	10.01	43	448798	187.24	ppb	98

(#) = qualifier out of range (m) = manual integration
 K6855.D WAT0317.M Wed Mar 19 09:33:46 2008

R0062

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6855.D
 Acq On : 17 Mar 108 6:19 pm
 Sample : 200PPB ICAL STD
 Misc :
 Quant Time: Mar 18 11:34 19108

Vial: 9
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) cis-1,2-Dichloroethene	10.05	96	1041226	185.54	ppb	97
35) Propionitrile	10.12	54	586242	859.76	ppb	99
36) Methacrylonitrile	10.39	67	387975	179.45	ppb	94
37) Bromochloromethane	10.47	128	582520	192.35	ppb	87
38) Tetrahydrofuran	10.54	42	262074	179.22	ppb	# 86
39) Chloroform	10.55	83	1595474	182.29	ppb	97
40) 1,1,1-Trichloroethane	10.95	97	1247676	210.21	ppb	97
43) Cyclohexane	11.08	56	1617931	187.28	ppb	93
44) Carbontetrachloride	11.24	117	1061738	245.43	ppb	98
45) 1,1-Dichloropropene	11.21	75	1302517	198.95	ppb	98
46) Iso-Butyl Alcohol	11.15	43	695241	3764.44	ppb	93
47) Benzene	11.58	78	3637638	186.58	ppb	100
49) 1,2-Dichloroethane	11.57	62	1144887	205.40	ppb	97
50) TAME	11.65	73	2881929	210.02	ppb	98
51) N-Heptane	11.90	43	978807	191.15	ppb	96
52) Trichloroethene	12.66	95	1000377	209.27	ppb	92
53) Methylcyclohexane	13.05	55	1190989	206.30	ppb	97
54) 1,2-Diclpropane	13.07	63	1043073	180.28	ppb	100
55) Methyl Methacrylate	13.10	69	774290	222.10	ppb	97
56) 1,4-Dioxane	13.23	88	138269	3692.97	ppb	98
57) Dibromomethane	13.28	93	700762	208.19	ppb	99
58) Bromodichloromethane	13.50	83	1279821	217.56	ppb	96
59) 2-Nitropropane	13.88	41	404048	422.80	ppb	92
60) 2-Chloroethylvinyl Ether	13.96	63	37932	65.61	ppb	95
61) cis-1,3-Dichloropropene	14.29	75	1795129	207.39	ppb	98
62) 4-Methyl-2-Pentanone	14.50	43	1086639	205.74	ppb	100
63) Toluene	14.96	91	3718790	193.78	ppb	98
64) trans-1,3-Dichloropropene	15.27	75	1608855	218.46	ppb	99
65) Ethyl Methacrylate	15.33	69	1398377	219.91	ppb	95
66) 1,1,2-Trichloroethane	15.65	83	765360	188.51	ppb	97
70) Tetrachloroethene	16.01	166	961142	205.68	ppb	95
71) 2-Hexanone	16.04	43	750738	201.00	ppb	97
72) 1,3-Dichloropropene	16.00	76	1637859	183.24	ppb	99
73) Dibromochloromethane	16.46	129	1180731	231.16	ppb	100
74) 1,2-Dibromoethane	16.74	107	1053993	202.29	ppb	96
75) Chlorobenzene	17.68	112	2647715	196.01	ppb	97
76) 1,1,1,2-Tetrachloroethane	17.79	131	1001906	216.53	ppb	97
77) Ethylbenzene	17.83	91	4188930	200.67	ppb	100
78) (m+p)Xylene	18.05	106	3001958	419.25	ppb	99
79) o-Xylene	18.86	106	1471686	203.02	ppb	93
80) Styrene	18.87	104	2640780	219.06	ppb	94
81) Bromoform	19.32	173	701729	229.97	ppb	96
82) Isopropylbenzene	19.58	105	3679077	208.67	ppb	99
83) Cyclohexanone	19.84	55	2252994	2998.72	ppb	98

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

00141

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6855.D
 Acq On : 17 Mar 108 6:19 pm
 Sample : 200PPB ICAL STD
 Misc :
 Quant Time: Mar 18 11:34 19108

Vial: 9
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,1,2,2-Tetrachloroethane	20.13	83	1201353	177.17	ppb	99
86) 1,2,3-Trichloropropane	20.28	110	343024	191.36	ppb	90
87) Trans-1,4-Dichloro-2-Buten	20.24	53	292107	193.35	ppb	87
88) n-Propylbenzene	20.41	91	4244563	211.64	ppb	97
89) Bromobenzene	20.31	156	1063802	186.85	ppb	91
90) 1,3,5-Trimethylbenzene	20.74	105	2437559	239.50	ppb	98
91) 2-Chlorotoluene	20.66	91	2915388	207.21	ppb	98
92) 4-Chlorotoluene	20.87	91	2692298	216.61	ppb	98
93) tert-Butylbenzene	21.45	119	2260883	220.48	ppb	96
94) 1,2,4-Trimethylbenzene	21.54	105	2344119	252.82	ppb	97
95) sec-Butylbenzene	21.91	105	3058135	218.82	ppb	100
96) p-Isopropyltoluene	22.16	119	2528046	248.04	ppb	97
97) 1,3-Dclbenz	22.22	146	1789019	203.68	ppb	97
98) 1,4-Dclbenz	22.39	146	1770275	212.32	ppb	97
99) n-Butylbenzene	23.05	91	2007672	254.15	ppb	98
100) 1,2-Dclbenz	23.24	146	1716226	204.93	ppb	99
101) 1,2-Dibromo-3-chloropropan	25.05	157	233775	207.67	ppb	95
102) Nitrobenzene	25.61	77	103296	311.01	ppb	# 85
103) 1,2,4-Tcbenzene	27.18	180	741678	257.26	ppb	98
104) Hexachlorobt	27.50	225	303683	192.09	ppb	86
105) Naphthalen	27.79	128	1707963	246.22	ppb	98
106) 1,2,3-Tclbenzene	28.35	180	684332	259.95	ppb	99

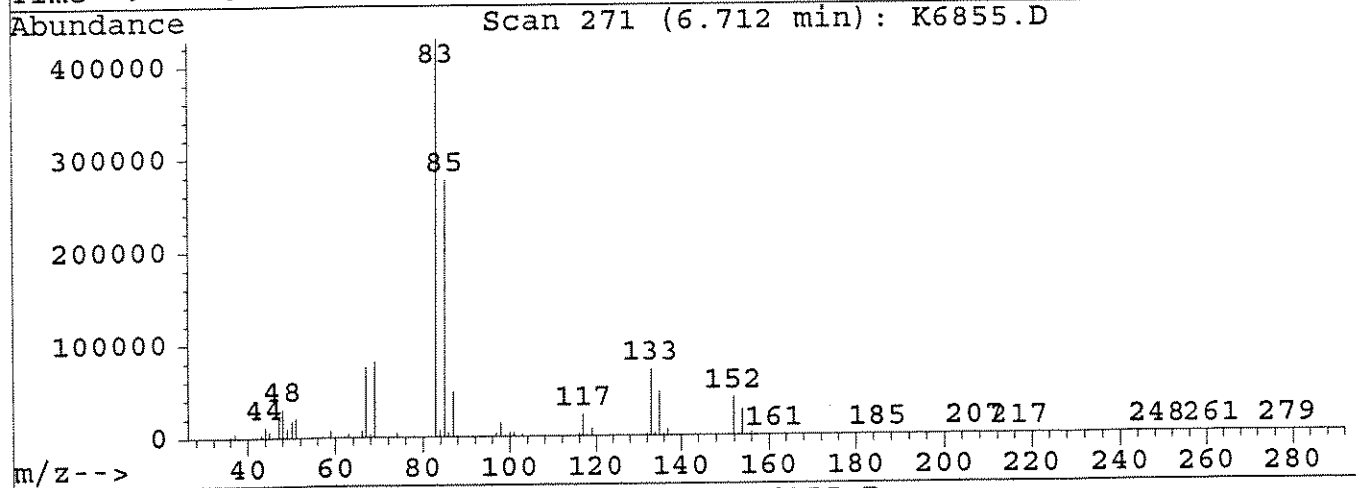
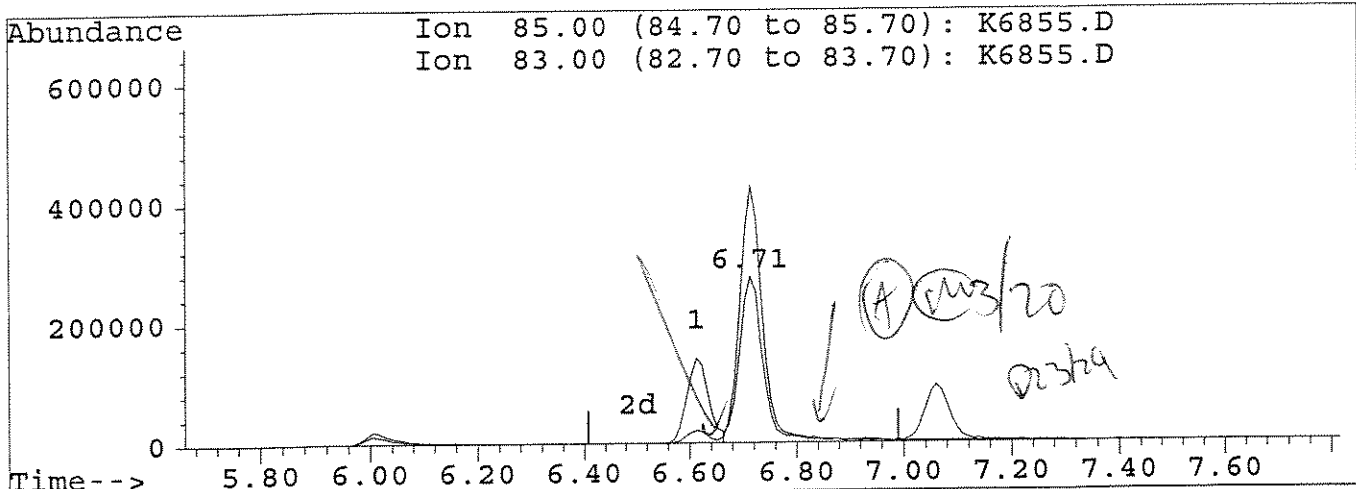
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6855.D
 Acq On : 17 Mar 108 6:19 pm
 Sample : 200PPB ICAL STD
 Misc :
 Quant Time: Mar 18 11:34 19108

Vial: 9
 Operator: M.MILLER
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Tue Mar 18 13:23:34 2008
 Response via : Multiple Level Calibration



TIC: K6855.D

(13) Freon 123
 6.71min 187.20ppb m
 response 834072

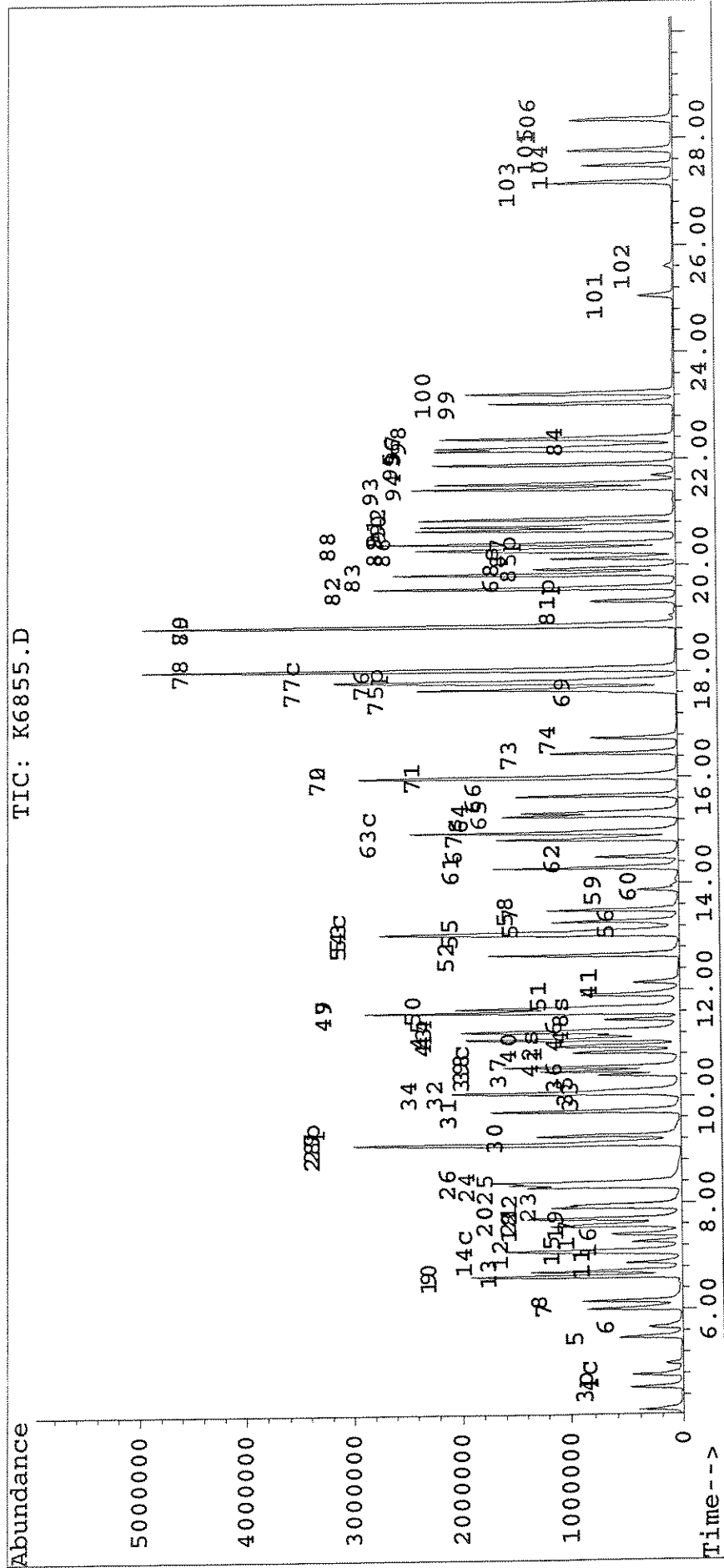
Ion	Exp%	Act%
85.00	100	100
83.00	151.40	155.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Vial: 9
Operator: M.MILLER
Inst : 5971 - In
Multiplr: 1.00

Data File : J:\ACQDATA\MSVOA5\DATA\031708\K6855.D
Acq On : 17 Mar 108 6:19 pm
Sample : 200PPB ICAL STD
Misc :
Quant Time: Mar 18 11:34 19108

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa
Last Update : Tue Mar 18 13:23:34 2008
Response via : Multiple Level Calibration



00111

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8256.D
 Acq On : 3 Jul 108 10:35 am
 Sample : CCV
 Misc :

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

YR 7/3/08

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Pentafluorobenzene	1.000	1.000	0.0	95	0.09
2	Dichlorodifluoromethane	0.475	0.432	17.3	74	0.05 <i>KE</i>
3	p Chloromethane	0.663	0.599	9.7	83	0.05
4	c Vinyl Chloride	0.543	0.586	-7.8	90	0.05
5	Bromomethane	0.494	0.452	8.5	87	0.06
6	Chloroethane	0.404	0.387	4.1	86	0.07
7	Freon 21	1.198	1.312	-9.6	96	0.07
8	Trichlorofluoromethane	0.747	0.776	-3.8	94	0.06
9	Diethyl Ether	0.435	0.445	-2.3	91	0.07
10	Freon 123A	0.252	0.260	-3.2	97	0.08
11	Acrolein	0.084	0.043	48.8#	47#	0.07
12	FREON 113	0.482	0.478	0.8	90	0.07
13	Freon 123	0.505	0.500	1.0	93	0.07
14	c 1,1-Dicethene	0.504	0.491	2.6	90	0.08
15	Acetone	0.142	0.121	14.6	81	0.07
16	2-propanol	0.026	0.018	29.0#	64	0.07
17	Iodomethane	0.647	0.800	3.7 -23.6	102	0.08 <i>KE</i>
18	Carbon Disulfide	1.865	1.933	-3.6	98	0.08
19	Acetonitrile	0.070	0.058	16.7	76	0.08
20	Allyl Chloride	0.887	0.768	13.4	81	0.08
21	Methyl Acetate	0.608	0.469	22.8	71	0.08
22	Methylene Chloride	0.641	0.605	5.5	90	0.08
23	TBA	0.044	0.035	21.6	70	0.07
24	Methyl-t-Butyl Ether	1.575	1.518	3.7	88	0.08
25	Acrylonitrile	0.215	0.185	13.8	77	0.08
26	trans-1,2-Dichloroethene	0.613	0.582	5.1	88	0.08
27	DIPE	2.246	2.240	0.3	88	0.08
28	p 1,1-Dicethane	1.052	1.027	2.4	91	0.09
29	Vinyl Acetate	0.081	0.091	-0.3 -11.7	95	0.08 <i>KE</i>
30	2-Chloro-1,3-butadiene	0.808	0.805	0.4	90	0.09
31	ETBE	1.969	1.950	1.0	91	0.08
32	2,2-Dichloropropane	0.836	0.863	-3.2	92	0.09
33	2-Butanone	0.299	0.248	16.9	78	0.09
34	cis-1,2-Dichloroethene	0.649	0.654	-0.7	91	0.10
35	Propionitrile	0.073	0.064	12.7	72	0.09
36	Methacrylonitrile	0.243	0.185	23.9	71	0.09
37	Bromochloromethane	0.371	0.378	-2.0	94	0.09
38	Tetrahydrofuran	0.174	0.132	24.2	69	0.10
39	c Chloroform	1.041	1.005	3.5	90	0.09
40	1,1,1-Trichloroethane	0.796	0.811	-1.9	96	0.09
41	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.09

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8256.D
 Acq On : 3 Jul 108 10:35 am
 Sample : CCV
 Misc :

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42 s	surr4,Dibrflmethane	0.353	0.352	0.5	98	0.09
43	Cyclohexane	0.574	0.453	21.2	76	0.09
44	Carbontetrachloride	0.348	0.371	-6.6	96	0.09
45	1,1-Dichloropropene	0.480	0.457	4.9	87	0.09
46	Iso-Butyl Alcohol	0.013	0.008	36.6#	58	0.10
47	Benzene	1.335	1.279	4.2	89	0.09
48 s	surr1,1,2-Dicethane	0.315	0.299	5.0	94	0.10
49	1,2-Dichloroethane	0.408	0.417	-2.2	93	0.09
50	TAME	1.057	0.990	6.3	87	0.10
51	N-Heptane	0.331	0.248	NT 25.1#	66	0.09
52	Trichloroethene	0.342	0.335	2.0	86	0.10
53	Methylcyclohexane	0.421	0.309	NT 26.6#	67	0.10
54 c	1,2-Diclpropane	0.374	0.360	3.8	87	0.11
55	Methyl Methacrylate	0.252	0.198	25.3 21.7	68	0.10 NT (42)
56	1,4-Dioxane	0.002	0.001	NT 46.9#	46#	0.11
57	Dibromomethane	0.258	0.252	2.2	91	0.10
58	Bromodichloromethane	0.450	0.465	-3.3	94	0.11
59	2-Nitropropane	0.073	0.070	4.6	87	0.10
60	2-Chloroethylvinyl Ether	0.000	0.000	0.0	0#	0.09
61	cis-1,3-Dichloropropene	0.660	0.606	8.1	85	0.11
62	4-Methyl-2-Pentanone	0.374	0.312	16.6	72	0.11
63 c	Toluene	1.381	1.294	6.3	87	0.11
64	trans-1,3-Dichloropropene	0.568	0.554	2.5	87	0.11
65	Ethyl Methacrylate	0.464	0.347	32.0 25.3#	63	0.10 NT (42)
66	1,1,2-Trichloroethane	0.294	0.262	10.9	86	0.11
67 s	surr3,Toluene-d8	1.016	1.064	-4.8	94	0.11
68 s	surr2,bfb	0.426	0.435	-2.3	91	0.12
69	d5-Chlorobenze	1.000	1.000	0.0	95	0.11
70	Tetrachloroethene	0.361	0.329	8.9	80	0.11
71	2-Hexanone	0.287	0.216	25.0	70	0.10
72	1,3-Dichloropropene	0.658	0.615	6.4	85	0.10
73	Dibromochloromethane	0.444	0.416	6.4	85	0.12
74	1,2-Dibromoethane	0.401	0.378	5.6	81	0.12
75 p	Chlorobenzene	1.020	0.978	4.1	89	0.11
76	1,1,1,2-Tetrachloroethane	0.386	0.377	2.3	86	0.11
77 c	Ethylbenzene	1.558	1.465	6.0	84	0.11
78	(m+p)Xylene	0.532	0.516	2.9	84	0.11
79	o-Xylene	0.539	0.520	3.6	86	0.11
80	Styrene	0.931	0.898	3.6	85	0.12
81 p	Bromoform	0.248	0.253	NT 8.0 -1.9	84	0.11 (42)
82	Isopropylbenzene	1.330	1.171	12.0	77	0.11

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8256.D
 Acq On : 3 Jul 108 10:35 am
 Sample : CCV
 Misc :

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	Cyclohexanone	0.057	0.035	38.3#	55	0.12
84	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	91	0.12
85 p	1,1,2,2-Tetrachloroethane	1.259	1.055	16.3	77	0.11
86	1,2,3-Trichloropropane	0.335	0.319	4.7	82	0.10
87	Trans-1,4-Dichloro-2-Butene	0.288	0.155	46.1#	51	0.12
88	n-Propylbenzene	3.746	3.231	13.8	74	0.11
89	Bromobenzene	1.026	0.957	6.7	82	0.10
90	1,3,5-Trimethylbenzene	2.139	1.908	10.8	76	0.12
91	2-Chlorotoluene	2.674	2.499	6.5	82	0.11
92	4-Chlorotoluene	2.359	2.253	4.5	81	0.11
93	tert-Butylbenzene	2.052	1.760	14.2	76	0.12
94	1,2,4-Trimethylbenzene	1.996	1.794	10.1	77	0.11
95	sec-Butylbenzene	2.619	2.429	7.2	79	0.12
96	p-Isopropyltoluene	2.119	1.879	11.3	75	0.11
97	1,3-Dclbenz	1.628	1.470	9.7	79	0.12
98	1,4-Dclbenz	1.571	1.451	7.6	79	0.11
99	n-Butylbenzene	1.710	1.392	18.6	71	0.12
100	1,2-Dclbenz	1.545	1.432	7.3	80	0.12
101	1,2-Dibromo-3-chloropropane	0.212	0.173	18.3	69	0.15
102	Nitrobenzene	0.000	0.000	0.0	0#	0.14
103	1,2,4-Tcbenzene	0.579	0.473	28.4 18.3	66	0.12 (18.3)
104	Hexachlorobt	0.265	0.242	8.9	78	0.12
105	Naphthalen	1.480	1.056	28.7#	65	0.13
106	1,2,3-Tclbenzene	0.580	0.399	31.2#	63	0.14

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8256.D
 Acq On : 3 Jul 108 10:35 am
 Sample : CCV
 Misc :
 Quant Time: Jul 3 11:05 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

YK 7/3/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	10.90	168	349810	50.00	ppb	0.09
41) 1,4-Difluorobenzene	12.23	114	635882	50.00	ppb	0.09
69) d5-Chlorobenze	17.73	117	592455	50.00	ppb	0.11
84) d4-1,4-Dichlorobenzene	22.46	152	226108	50.00	ppb	0.12

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
42) surr4,Dibrflmethane	10.92	113	223516	49.74	ppb	99.48%
48) surr1,1,2-Diclethane	11.54	65	190153	47.49	ppb	94.98%
67) surr3,Toluene-d8	14.94	98	676707	52.38	ppb	104.77%
68) surr2,bfb	20.05	95	276896	51.14	ppb	102.27%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.17	85	151146	41.35	ppb	99
3) Chloromethane	4.59	50	209393	45.15	ppb	97
4) Vinyl Chloride	4.82	62	204837	53.89	ppb	92
5) Bromomethane	5.54	96	158091	45.73	ppb	97
6) Chloroethane	5.73	64	135382	47.94	ppb	99
7) Freon 21	6.08	67	459105	54.79	ppb	99
8) Trichlorofluoromethane	6.22	101	271313	51.88	ppb	97
9) Diethyl Ether	6.70	59	155712	51.14	ppb	96
10) Freon 123A	6.69	85	90902	51.61	ppb	94
11) Acrolein	6.95	56	75272	127.95	ppb	92
12) FREON 113	7.14	101	167203	49.62	ppb	89
13) Freon 123	6.78	85	174832	49.52	ppb	87
14) 1,1-Diclethene	7.18	96	171852	48.70	ppb	99
15) Acetone	7.21	43	42393	42.69	ppb	94
16) 2-propanol	7.35	45	129097	709.73	ppb	95
17) Iodomethane	7.49	142	279768	48.13	ppb	100
18) Carbon Disulfide	7.65	76	676136	51.81	ppb	97
19) Acetonitrile	7.70	41	101788	208.30	ppb	99
20) Allyl Chloride	7.78	41	268702	43.28	ppb	95
21) Methyl Acetate	7.76	43	164061	38.58	ppb	94
22) Methylene Chloride	7.99	84	211780	47.23	ppb	91
23) TBA	8.03	59	242063	783.87	ppb	100
24) Methyl-t-Butyl Ether	8.42	73	530900	48.17	ppb	99
25) Acrylonitrile	8.37	53	323762	215.42	ppb	100
26) trans-1,2-Dichloroethene	8.47	96	203446	47.46	ppb	94
28) 1,1-Diclethane	9.18	63	359112	48.80	ppb	99
29) Vinyl Acetate	9.17	86	31786	50.14	ppb	85
30) 2-Chloro-1,3-butadiene	9.34	53	281514	49.78	ppb	93
31) ETBE	9.79	59	682030	49.51	ppb	100
32) 2,2-Dichloropropane	10.17	77	301899	51.62	ppb	97
33) 2-Butanone	10.11	43	86887	41.54	ppb	95
34) cis-1,2-Dichloroethene	10.15	96	228652	50.36	ppb	90

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

Quantitation Report

Data File : J:\ACQUADATA\MSVOA5\DATA\070308\K8256.D
 Acq On : 3 Jul 108 10:35 am
 Sample : CCV
 Misc :
 Quant Time: Jul 3 11:05 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUADATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
35) Propionitrile	10.22	54	111656	218.16	ppb	97
36) Methacrylonitrile	10.50	67	64692	38.05	ppb	92
37) Bromochloromethane	10.57	128	132230	51.01	ppb	93
38) Tetrahydrofuran	10.65	42	46208	37.90	ppb	90
39) Chloroform	10.65	83	351483	48.26	ppb	100
40) 1,1,1-Trichloroethane	11.03	97	283564	50.93	ppb	99
43) Cyclohexane	11.16	56	287981	39.42	ppb	99
44) Carbontetrachloride	11.33	117	235849	53.30	ppb	97
45) 1,1-Dichloropropene	11.30	75	290375	47.55	ppb	95
46) Iso-Butyl Alcohol	11.25	43	105292	633.67	ppb	96
47) Benzene	11.68	78	813374	47.92	ppb	100
49) 1,2-Dichloroethane	11.67	62	264903	51.08	ppb	97
50) TAME	11.75	73	629640	46.86	ppb	99
51) N-Heptane	12.00	43	157630	37.47	ppb	89
52) Trichloroethene	12.75	95	213018	49.00	ppb	97
53) Methylcyclohexane	13.14	55	196429	36.69	ppb	91
54) 1,2-Diclp propane	13.17	63	228963	48.08	ppb	98
55) Methyl Methacrylate	13.21	69	125667	35.87	ppb	97
56) 1,4-Dioxane	13.33	88	16059	530.59	ppb	92
57) Dibromomethane	13.38	93	160281	48.92	ppb	91
58) Bromodichloromethane	13.61	83	295790	51.66	ppb	99
59) 2-Nitropropane	13.98	41	88864	95.38	ppb	98
61) cis-1,3-Dichloropropene	14.39	75	385559	45.96	ppb	94
62) 4-Methyl-2-Pentanone	14.60	43	198368	41.70	ppb	97
63) Toluene	15.07	91	822539	46.83	ppb	97
64) trans-1,3-Dichloropropene	15.38	75	351968	48.75	ppb	96
65) Ethyl Methacrylate	15.43	69	220529	33.98	ppb	94
66) 1,1,2-Trichloroethane	15.76	83	166742	44.55	ppb	98
70) Tetrachloroethene	16.12	166	195059	45.56	ppb	94
71) 2-Hexanone	16.15	43	127685	37.52	ppb	97
72) 1,3-Dichloropropane	16.10	76	364559	46.79	ppb	98
73) Dibromochloromethane	16.57	129	246188	46.82	ppb	94
74) 1,2-Dibromoethane	16.86	107	224187	47.18	ppb	99
75) Chlorobenzene	17.79	112	579691	47.95	ppb	100
76) 1,1,1,2-Tetrachloroethane	17.89	131	223471	48.87	ppb	93
77) Ethylbenzene	17.94	91	868048	47.02	ppb	100
78) (m+p)Xylene	18.16	106	611794	97.05	ppb	91
79) o-Xylene	18.98	106	308136	48.20	ppb	93
80) Styrene	19.00	104	531959	48.21	ppb	93
81) Bromoform	19.43	173	149867	45.72	ppb	100
82) Isopropylbenzene	19.69	105	693534	44.01	ppb	99
83) Cyclohexanone	19.94	55	418757	616.88	ppb	91
85) 1,1,2,2-Tetrachloroethane	20.24	83	238475	41.87	ppb	99
86) 1,2,3-Trichloropropane	20.38	110	72062	47.63	ppb	95

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

K8256.D WAT0317.M Thu Jul 03 11:05:51 2008

Page 2

00149

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8256.D
 Acq On : 3 Jul 108 10:35 am
 Sample : CCV
 Misc :
 Quant Time: Jul 3 11:05 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
87) Trans-1,4-Dichloro-2-Buten	20.37	53	35033	26.94	ppb	84
88) n-Propylbenzene	20.52	91	730466	43.12	ppb	99
89) Bromobenzene	20.42	156	216291	46.63	ppb	85
90) 1,3,5-Trimethylbenzene	20.85	105	431466	44.62	ppb	95
91) 2-Chlorotoluene	20.77	91	565139	46.74	ppb	99
92) 4-Chlorotoluene	20.99	91	509507	47.77	ppb	100
93) tert-Butylbenzene	21.56	119	398023	42.90	ppb	98
94) 1,2,4-Trimethylbenzene	21.66	105	405743	44.95	ppb	98
95) sec-Butylbenzene	22.02	105	549244	46.38	ppb	97
96) p-Isopropyltoluene	22.28	119	424904	44.34	ppb	98
97) 1,3-Dclbenz	22.34	146	332320	45.15	ppb	98
98) 1,4-Dclbenz	22.51	146	328056	46.18	ppb	97
99) n-Butylbenzene	23.18	91	314796	40.71	ppb	97
100) 1,2-Dclbenz	23.36	146	323821	46.34	ppb	98
101) 1,2-Dibromo-3-chloropropan	25.20	157	39093	40.86	ppb	98
103) 1,2,4-Tcbenzene	27.30	180	107039	35.81	ppb	97
104) Hexachlorobt	27.61	225	54625	45.55	ppb	96
105) Naphthalen	27.92	128	238751	35.67	ppb	100
106) 1,2,3-Tclbenzene	28.49	180	90265	34.42	ppb	86

27) D.I.P.E

9.19

783435

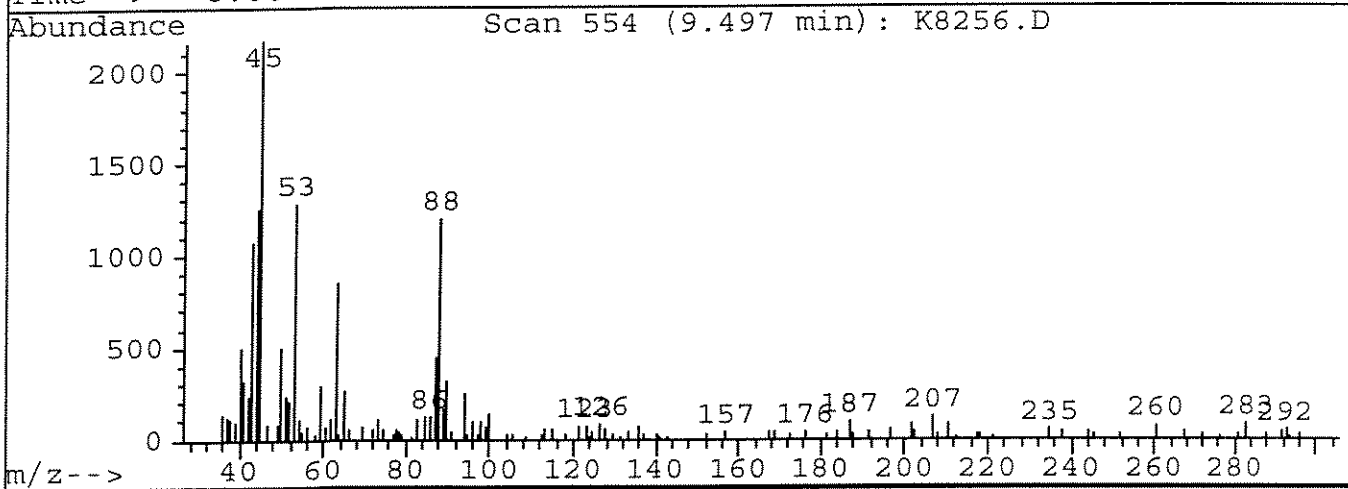
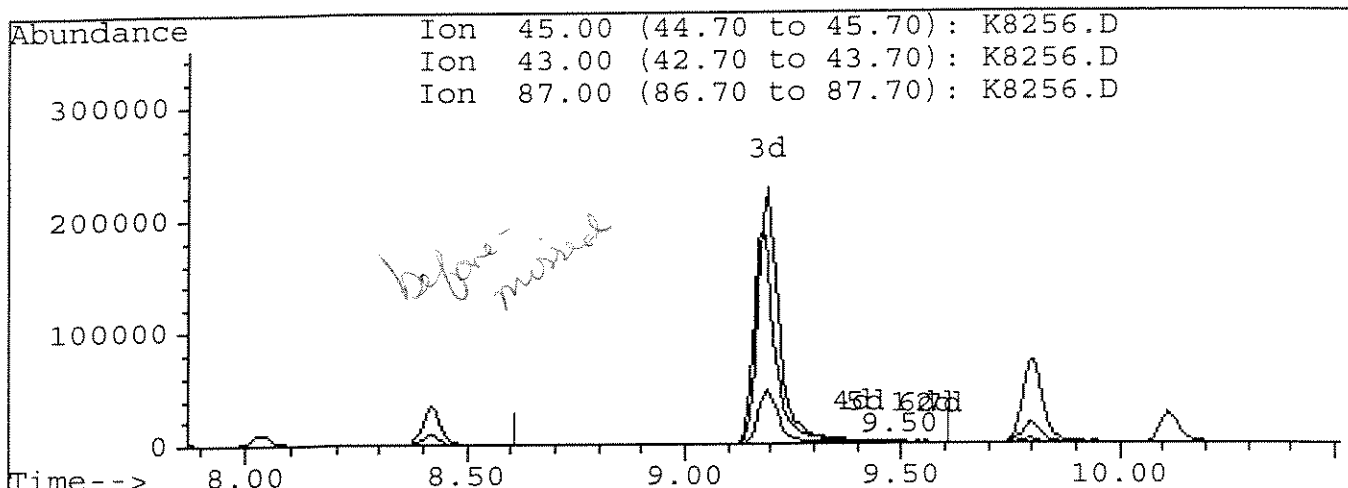
49.85 ppb (m+r)

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8256.D
 Acq On : 3 Jul 108 10:35 am
 Sample : CCV
 Misc :
 Quant Time: Jul 3 11:05 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration



TIC: K8256.D

(27) DIPE
 9.50min 0.20ppb
 response 3174

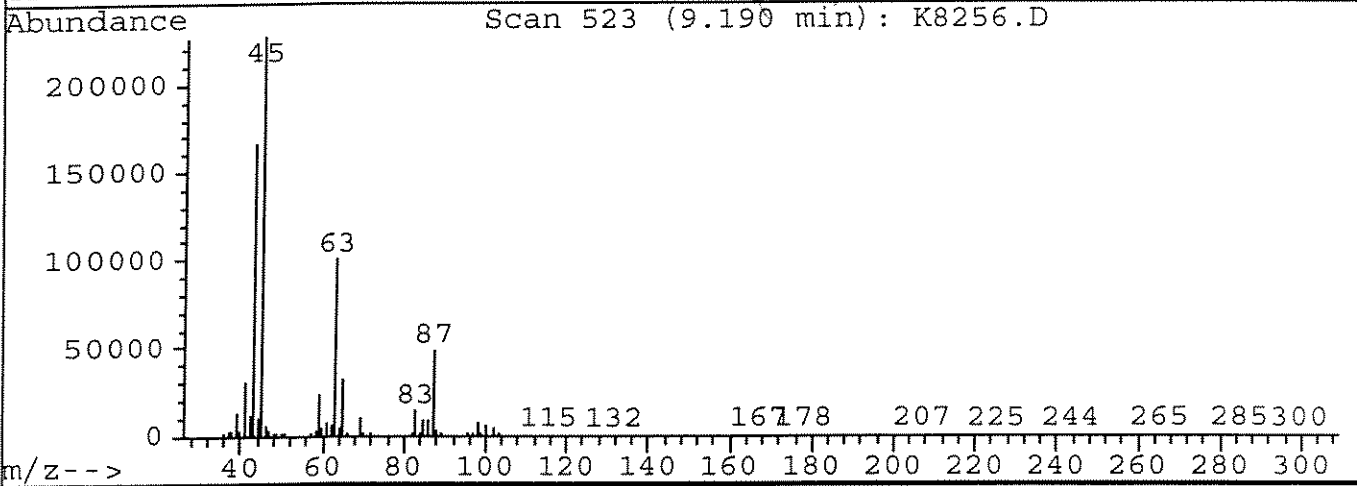
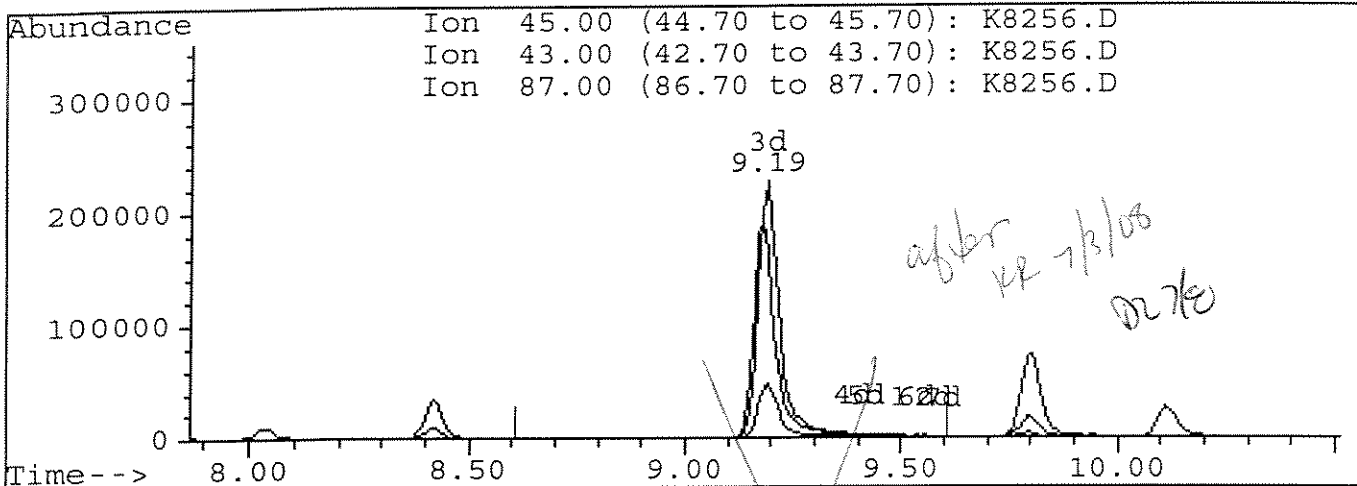
Ion	Exp%	Act%
45.00	100	100
43.00	60.60	48.99
87.00	19.90	20.05
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8256.D
 Acq On : 3 Jul 108 10:35 am
 Sample : CCV
 Misc :
 Quant Time: Jul 3 12:22 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration



TIC: K8256.D

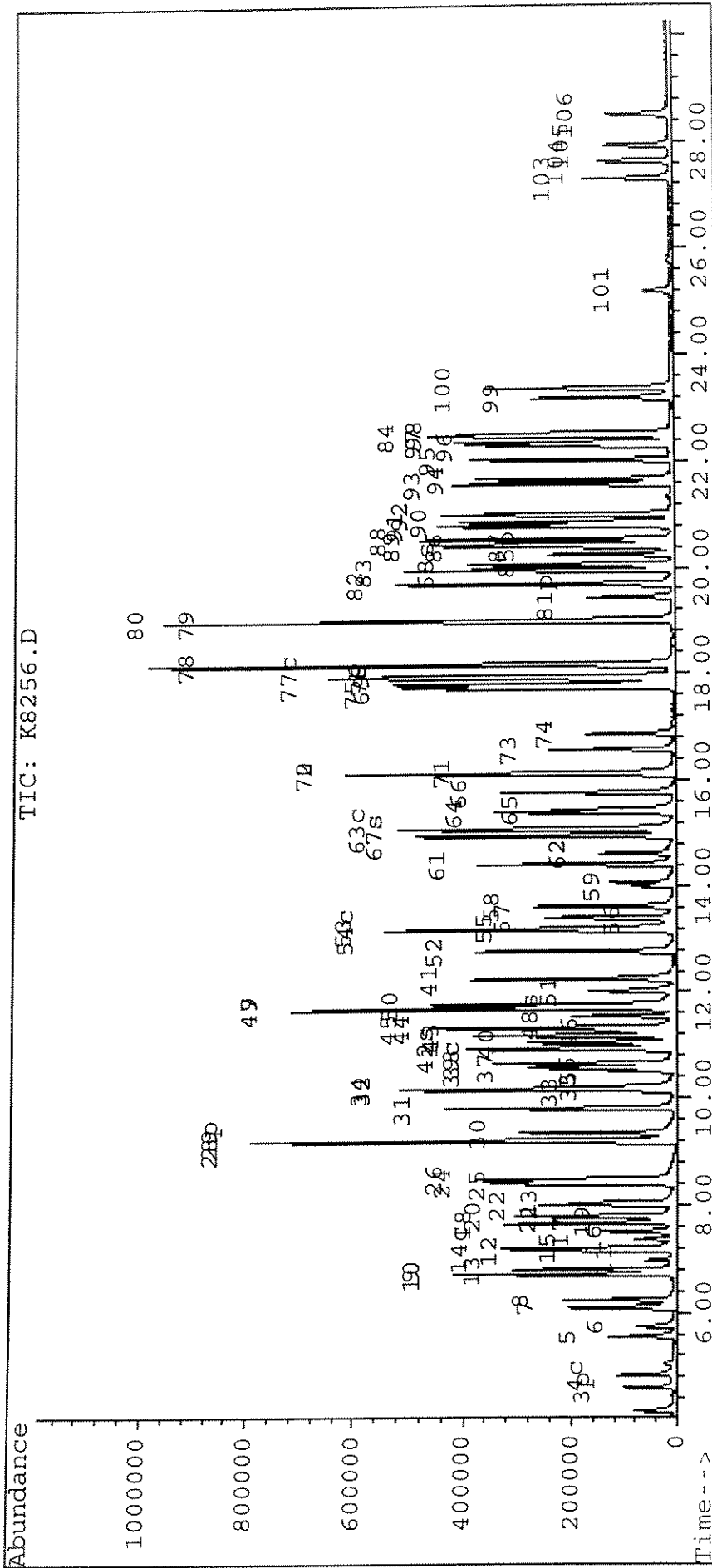
(27) DIPE
 9.19min 49.85ppb m
 response 783438

Ion	Exp%	Act%
45.00	100	100
43.00	60.60	72.84
87.00	19.90	20.97
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8256.D Vial: 1
Acq On : 3 Jul 108 10:35 am Operator: K.Ruest
Sample : CCV Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Jul 3 11:05 19108

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa
Last Update : Wed Mar 26 15:06:45 2008
Response via : Multiple Level Calibration



00150

VOLATILE ORGANICS

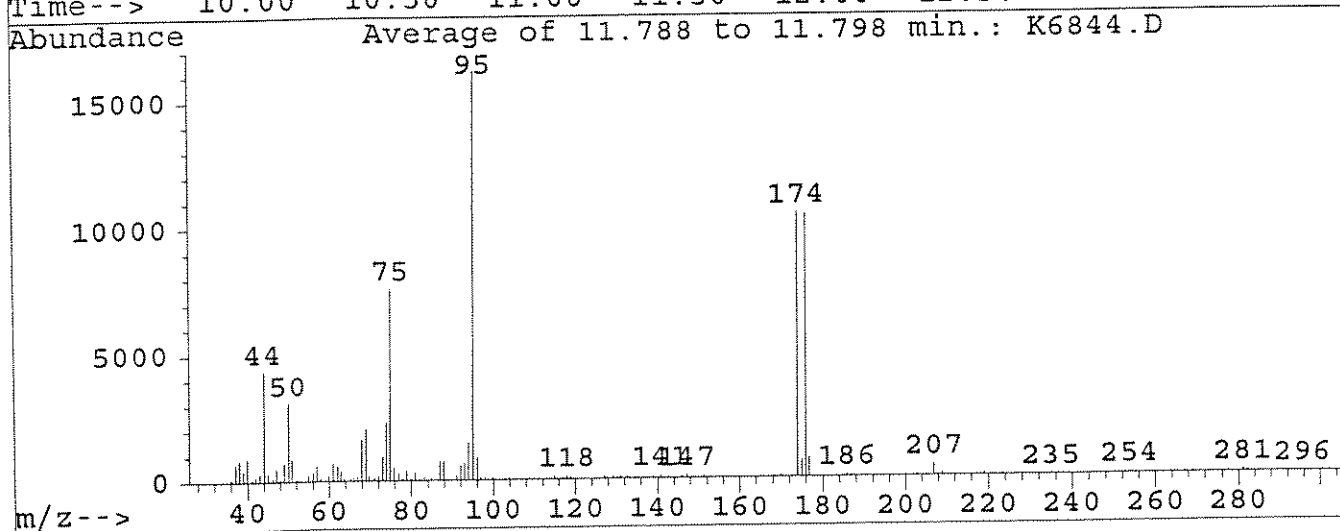
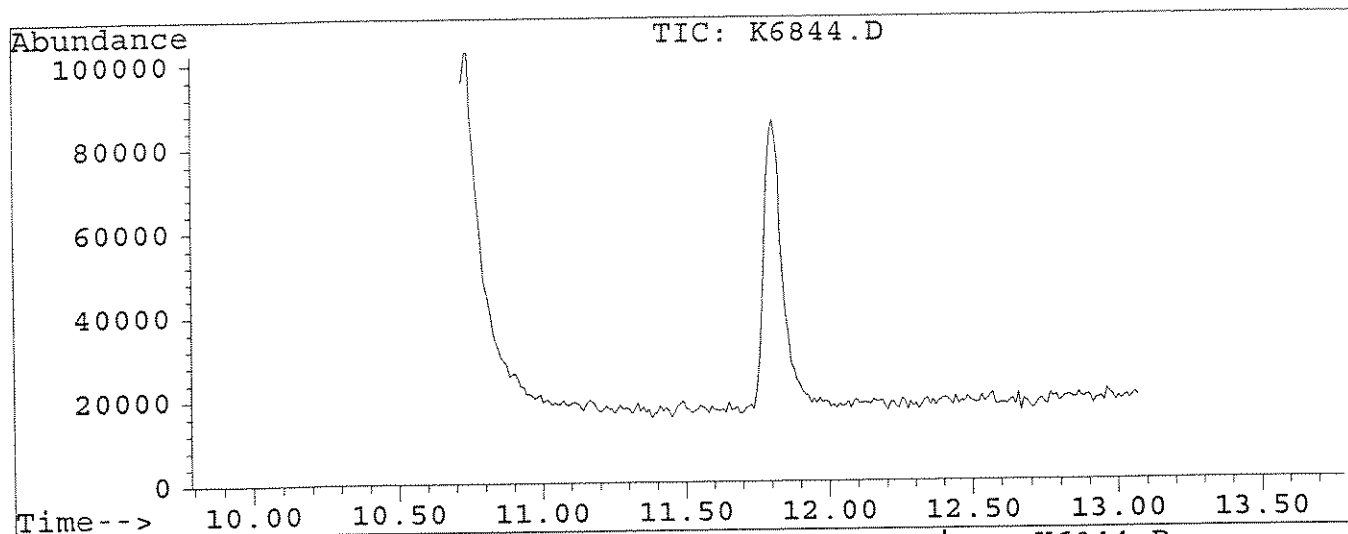
RAW QC DATA

BFB

Data File : J:\ACQUDATA\MSVOA5\DATA\031708\K6844.D
Acq On : 17 Mar 108 11:11 am
Sample : TUNE CHECK
Misc :

Vial: 5
Operator: M.MILLER
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa



Peak Apex is scan: 109

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	3085	PASS
75	95	30	60	46.8	7588	PASS
95	95	100	100	100.0	16209	PASS
96	95	5	9	5.4	883	PASS
173	174	0	2	0.4	42	PASS
174	95	50	120	64.6	10479	PASS
175	174	5	9	6.3	664	PASS
176	174	95	101	99.6	10438	PASS
177	176	5	9	7.3	767	PASS

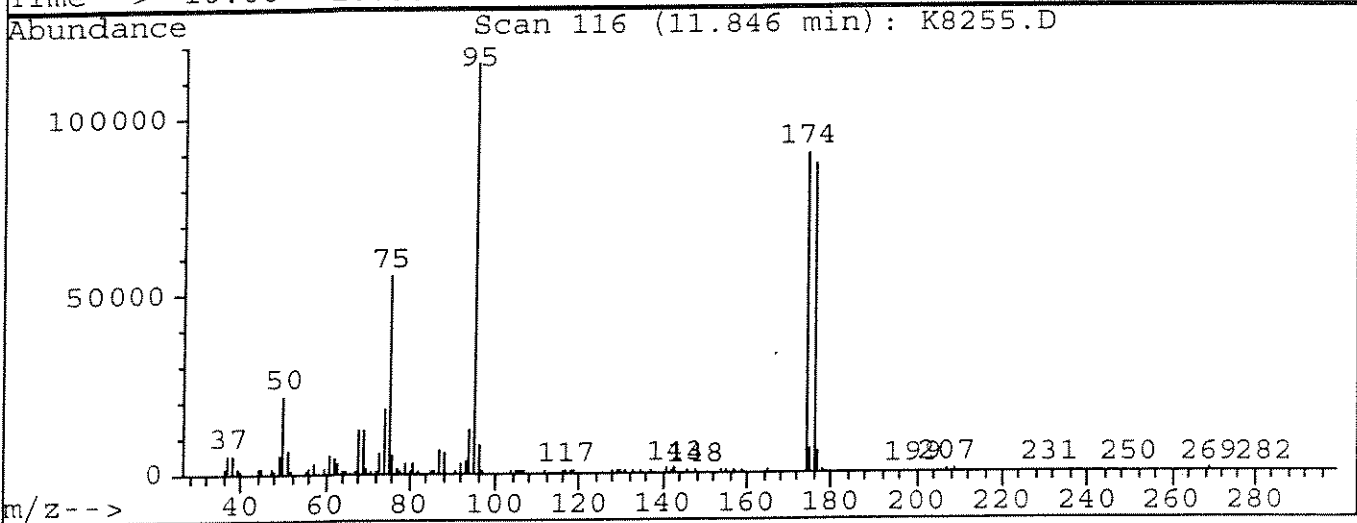
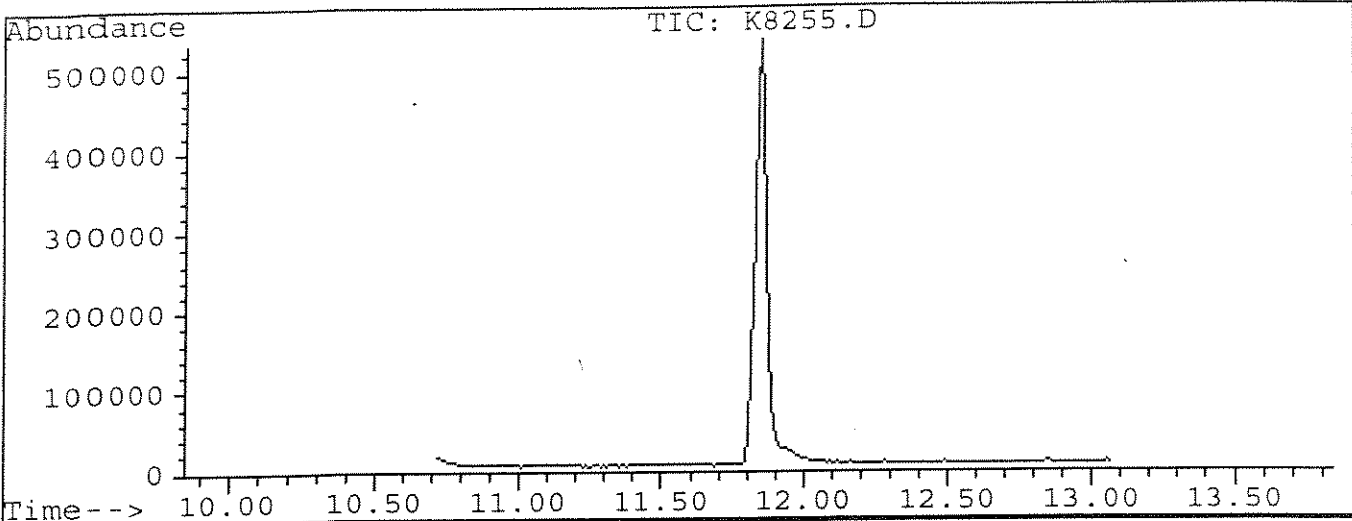
BFB

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8255.D
Acq On : 3 Jul 108 10:04 am
Sample : TUNE
Misc :

Vial: 28
Operator: K.Ruest
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa

KA 7/3/08



Peak Apex is scan: 116

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	21472	PASS
75	95	30	60	47.9	55360	PASS
95	95	100	100	100.0	115496	PASS
96	95	5	9	6.4	7423	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	77.5	89504	PASS
175	174	5	9	7.3	6553	PASS
176	174	95	101	96.3	86168	PASS
177	176	5	9	6.2	5377	PASS

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/18/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1115242 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Analytical Run 163559

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/08		
ANALYTICAL DILUTION:	1.00		
BENZENE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(50 - 135 %)	101	%
TOLUENE-D8	(75 - 128 %)	103	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	99	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8259.D
 Acq On : 3 Jul 108 12:25 pm
 Sample : METBLK 1115242
 Misc :
 Quant Time: Jul 3 12:56 19108

Vial: 2
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

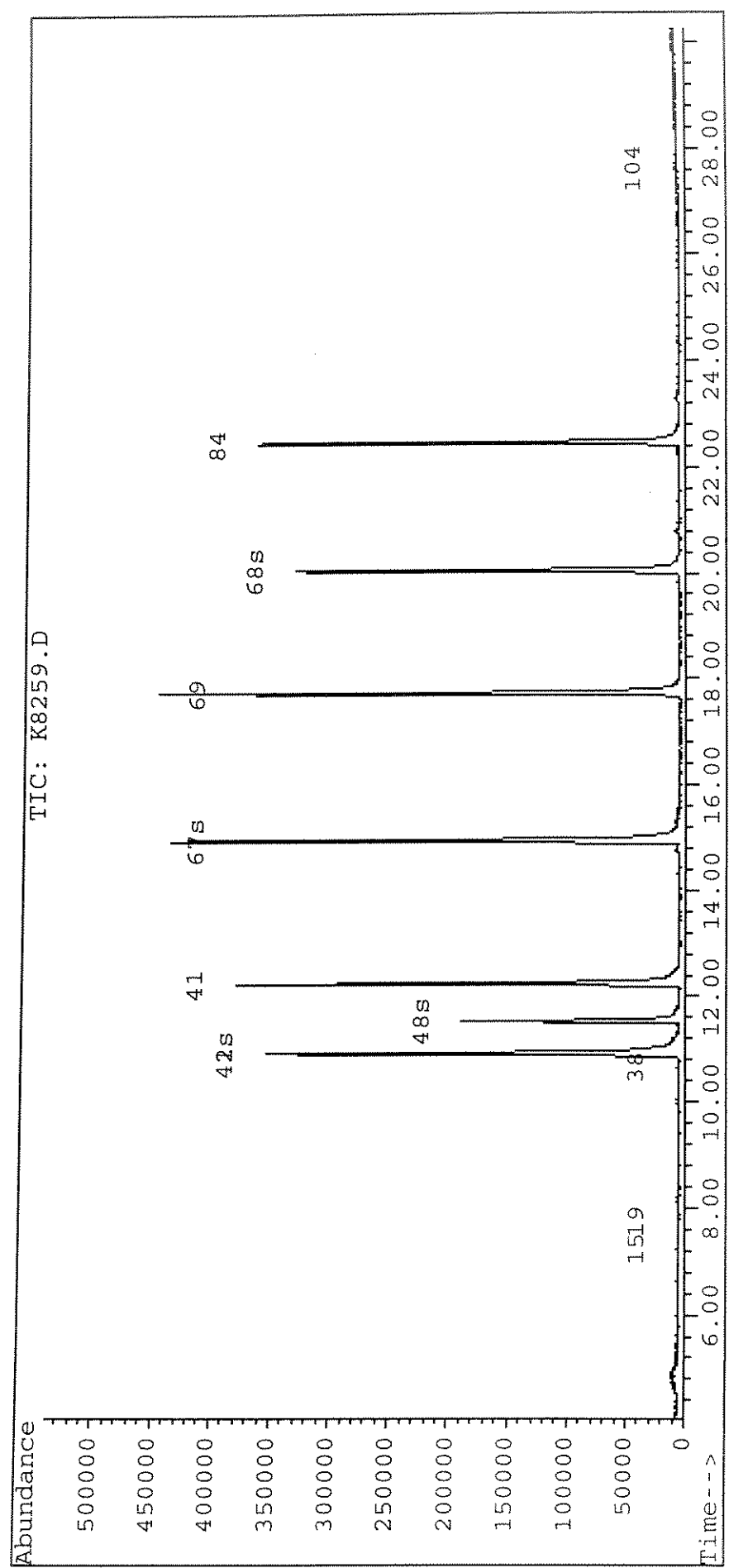
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) Pentafluorobenzene	10.90	168	343870	50.00	ppb	0.09	
41) 1,4-Difluorobenzene	12.23	114	622133	50.00	ppb	0.09	
69) d5-Chlorobenze	17.72	117	580943	50.00	ppb	0.11	
84) d4-1,4-Dichlorobenzene	22.45	152	208732	50.00	ppb	0.10	
						%Recovery	
System Monitoring Compounds							
42) surr4,Dibrflmethane	10.92	113	216577	49.26	ppb	98.52%	
48) surr1,1,2-Diclethane	11.53	65	188828	48.20	ppb	96.41%	
67) surr3,Toluene-d8	14.93	98	649201	51.36	ppb	102.73%	
68) surr2,bfb	20.05	95	267694	50.53	ppb	101.06%	
						Qvalue	
Target Compounds							
15) Acetone	7.24	43	1373	1.41	ppb	#	71 ^{LT}
19) Acetonitrile	7.75	41	534	1.11	ppb	#	1
38) Tetrahydrofuran	10.67	42	631	0.53	ppb	#	59
104) Hexachlorobt	27.62	225	966	0.87	ppb	#	45 ^{ms}

7/7/08

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8259.D Vial: 2
Acq On : 3 Jul 108 12:25 pm Operator: K.Ruest
Sample : METBLK Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Jul 3 12:56 19108

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa
Last Update : Wed Mar 26 15:06:45 2008
Response via : Multiple Level Calibration



00159

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/18/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1115244 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Analytical Run 163559

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
BENZENE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(50 - 135 %)	100	%
TOLUENE-D8	(75 - 128 %)	103	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	96	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8261.D
 Acq On : 3 Jul 108 1:39 pm
 Sample : PB070708 1115244
 Misc : TCLP
 Quant Time: Jul 3 14:09 19108

Vial: 4
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.90	168	340849	50.00	ppb	0.09
41) 1,4-Difluorobenzene	12.23	114	636609	50.00	ppb	0.09
69) d5-Chlorobenze	17.72	117	583098	50.00	ppb	0.10
84) d4-1,4-Dichlorobenzene	22.46	152	206437	50.00	ppb	0.11

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
42) surr4,Dibrflmethane	10.92	113	215210	47.84	ppb	95.67%
48) surr1,1,2-Diclethane	11.53	65	187742	46.84	ppb	93.67%
67) surr3,Toluene-d8	14.93	98	664763	51.40	ppb	102.80%
68) surr2,bfb	20.04	95	270705	49.94	ppb	99.87%

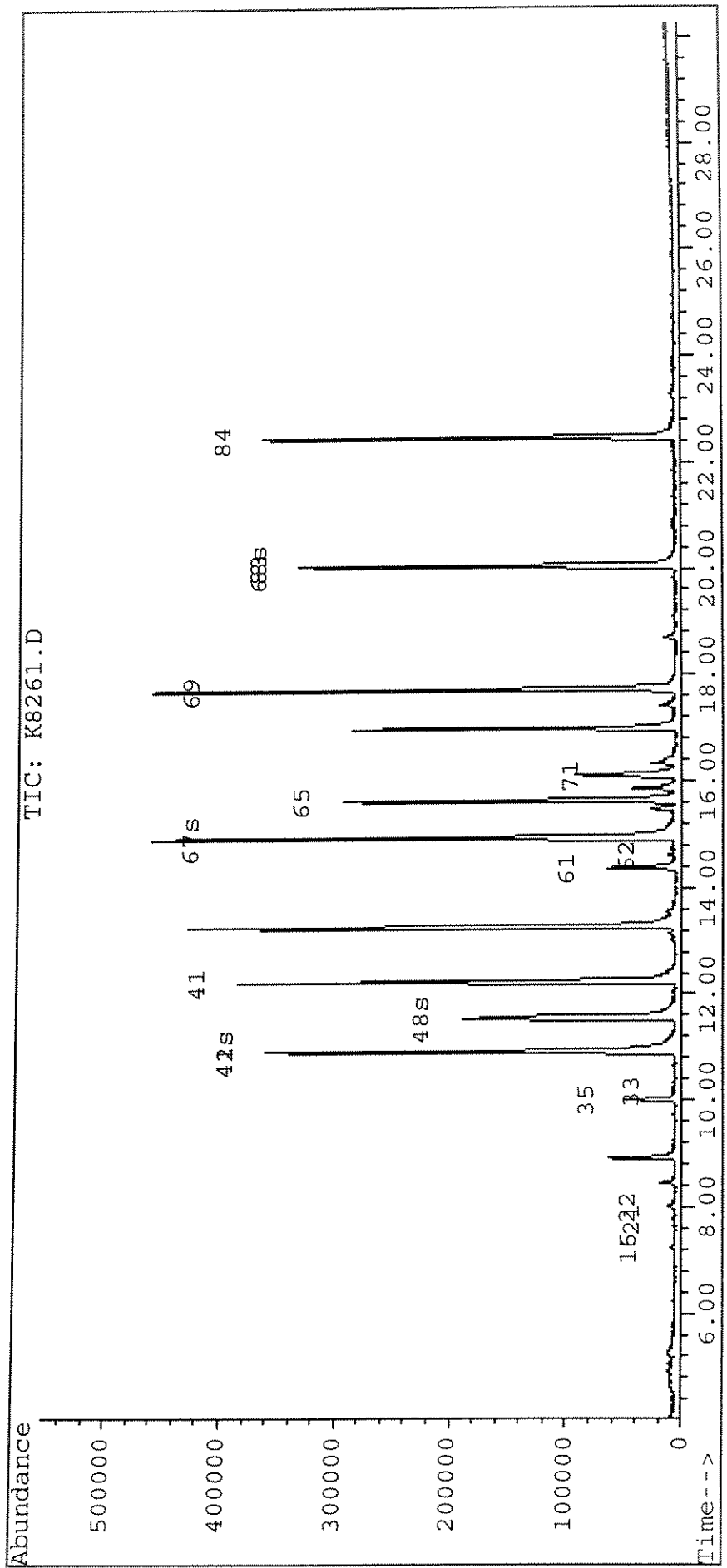
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Acetone	7.22	43	7993	8.26	ppb	# 82 ^M
16) 2-propanol	7.23	45	505	2.85	ppb	# 1
21) Methyl Acetate	7.77	43	1910	0.46	ppb	# 86 ^M
22) Methylene Chloride	7.98	84	2745	0.63	ppb	# 59 ^M
33) 2-Butanone	10.16	43	1084	0.53	ppb	# 84
35) Propionitrile	10.02	54	653	1.31	ppb	# 1
61) cis-1,3-Dichloropropene	14.37	75	22705	2.70	ppb	# 56
62) 4-Methyl-2-Pentanone	14.60	43	8836	1.86	ppb	88 ^M
65) Ethyl Methacrylate	15.61	69	855	0.60	ppb	86
71) 2-Hexanone	16.08	43	86849	25.93	ppb	# 28
83) Cyclohexanone	20.03	55	543	0.81	ppb	# 64

KR 7/4/08

Quantitation Report

Data File : J:\ACQDATA\MSVOA5\DATA\070308\K8261.D Vial: 4
Acq On : 3 Jul 108 1:39 pm Operator: K.Ruest
Sample : PB070708 Inst : 5971 - In
Misc : TCLP Multiplr: 1.00
Quant Time: Jul 3 14:09 19108

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa
Last Update : Wed Mar 26 15:06:45 2008
Response via : Multiple Level Calibration



00152

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/18/08

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 1115243 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Analytical Run 163559

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/08			
ANALYTICAL DILUTION: 1.00			
BENZENE	5.0	20	UG/L
2-BUTANONE (MEK)	10	19	UG/L
CARBON TETRACHLORIDE	5.0	22	UG/L
CHLOROBENZENE	5.0	20	UG/L
CHLOROFORM	5.0	20	UG/L
1,2-DICHLOROETHANE	5.0	22	UG/L
1,1-DICHLOROETHENE	5.0	21	UG/L
TETRACHLOROETHENE	5.0	19	UG/L
TRICHLOROETHENE	5.0	20	UG/L
VINYL CHLORIDE	5.0	23	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(50 - 135 %)	103	%
TOLUENE-D8	(75 - 128 %)	106	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	101	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8257.D
 Acq On : 3 Jul 108 11:12 am
 Sample : LCS 115243
 Misc :
 Quant Time: Jul 3 11:42 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

YRP/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.90	168	356701	50.00	ppb	0.09
41) 1,4-Difluorobenzene	12.23	114	636659	50.00	ppb	0.09
69) d5-Chlorobenze	17.72	117	599691	50.00	ppb	0.11
84) d4-1,4-Dichlorobenzene	22.46	152	224411	50.00	ppb	0.11

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
42) surr4,Dibrflmethane	10.92	113	227153	50.49	ppb	100.97%
48) surr1,1,2-Dicethane	11.53	65	189055	47.16	ppb	94.32%
67) surr3,Toluene-d8	14.93	98	683305	52.83	ppb	105.66%
68) surr2,bfb	20.04	95	278662	51.40	ppb	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.17	85	88689	23.66	ppb	100
3) Chloromethane	4.60	50	94557	20.00	ppb	96
4) Vinyl Chloride	4.82	62	89607	23.12	ppb	98
5) Bromomethane	5.54	96	66772	18.94	ppb	97
6) Chloroethane	5.73	64	55518 47198	20.216 39	ppb	99
7) Freon 21	6.08	67	159101	18.62	ppb	96
8) Trichlorofluoromethane	6.22	101	115412	21.64	ppb	97
9) Diethyl Ether	6.71	59	69259	22.31	ppb	95
10) Freon 123A	6.69	85	42087	23.43	ppb	80
11) Acrolein	6.96	56	35520	59.21	ppb	100
12) FREON 113	7.14	101	74728	21.75	ppb	# 87
13) Freon 123	6.79	85	78614	21.84	ppb	78
14) 1,1-Dicethene	7.18	96	77157	21.44	ppb	95
15) Acetone	7.21	43	20752	20.50	ppb	96
16) 2-propanol	7.35	45	58380	314.75	ppb	100
17) Iodomethane	7.49	142	106347	20.42	ppb	96
18) Carbon Disulfide	7.65	76	269877	20.28	ppb	98
19) Acetonitrile	7.70	41	41771	83.83	ppb	96
20) Allyl Chloride	7.79	41	106137	16.77	ppb	95
21) Methyl Acetate	7.76	43	78852	18.18	ppb	98
22) Methylene Chloride	7.99	84	86552	18.93	ppb	95
23) TBA	8.04	59	107390	341.04	ppb	94
24) Methyl-t-Butyl Ether	8.41	73	235702	20.97	ppb	97
25) Acrylonitrile	8.37	53	146771	95.77	ppb	97
26) trans-1,2-Dichloroethene	8.47	96	87716	20.07	ppb	97
27) DIPE	9.19	45	318309	19.86	ppb	92
28) 1,1-Dicethane	9.18	63	156977	20.92	ppb	98
29) Vinyl Acetate	9.18	86	10718	16.56	ppb	95
30) 2-Chloro-1,3-butadiene	9.33	53	122714	21.28	ppb	91
31) ETBE	9.80	59	285579	20.33	ppb	98
32) 2,2-Dichloropropane	10.17	77	128763	21.59	ppb	96
33) 2-Butanone	10.12	43	40200	18.85	ppb	94

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8257.D
 Acq On : 3 Jul 108 11:12 am
 Sample : LCS
 Misc :
 Quant Time: Jul 3 11:42 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) cis-1,2-Dichloroethene	10.15	96	95436	20.61	ppb	92
35) Propionitrile	10.22	54	51724	99.11	ppb	98
36) Methacrylonitrile	10.49	67	33586	19.37	ppb	84
37) Bromochloromethane	10.56	128	54151	20.48	ppb	98
38) Tetrahydrofuran	10.64	42	23647	19.02	ppb	94
39) Chloroform	10.64	83	152300	20.51	ppb	100
40) 1,1,1-Trichloroethane	11.04	97	118248	20.83	ppb	91
43) Cyclohexane	11.16	56	114001	15.59	ppb	99
44) Carbontetrachloride	11.33	117	99116	22.37	ppb	96
45) 1,1-Dichloropropene	11.31	75	126277	20.65	ppb	97
46) Iso-Butyl Alcohol	11.24	43	49314	296.42	ppb	90
47) Benzene	11.68	78	345593	20.34	ppb	100
49) 1,2-Dichloroethane	11.67	62	112139	21.60	ppb	97
50) TAME	11.75	73	260400	19.36	ppb	95
51) N-Heptane	12.00	43	68230	16.20	ppb	99
52) Trichloroethene	12.75	95	87998	20.22	ppb	98
53) Methylcyclohexane	13.14	55	79125	14.76	ppb	96
54) 1,2-Diclpropane	13.17	63	98265	20.61	ppb	95
55) Methyl Methacrylate	13.21	69	60341	17.87	ppb	92
56) 1,4-Dioxane	13.35	88	11190	369.26	ppb	81
57) Dibromomethane	13.39	93	67472	20.57	ppb	91
58) Bromodichloromethane	13.60	83	115818	20.20	ppb	# 95
59) 2-Nitropropane	13.99	41	38715	41.50	ppb	97
61) cis-1,3-Dichloropropene	14.39	75	163411	19.46	ppb	100
62) 4-Methyl-2-Pentanone	14.60	43	92598	19.44	ppb	92
63) Toluene	15.07	91	340061	19.34	ppb	100
64) trans-1,3-Dichloropropene	15.38	75	148409	20.53	ppb	98
65) Ethyl Methacrylate	15.44	69	115327	17.98	ppb	92
66) 1,1,2-Trichloroethane	15.76	83	69960	18.67	ppb	93
70) Tetrachloroethene	16.12	166	82477	19.03	ppb	91
71) 2-Hexanone	16.16	43	61210	17.77	ppb	94
72) 1,3-Dichloropropene	16.10	76	154551	19.60	ppb	98
73) Dibromochloromethane	16.57	129	106698	20.05	ppb	89
74) 1,2-Dibromoethane	16.86	107	98174	20.41	ppb	90
75) Chlorobenzene	17.78	112	247302	20.21	ppb	97
76) 1,1,1,2-Tetrachloroethane	17.89	131	90166	19.48	ppb	94
77) Ethylbenzene	17.94	91	371047	19.86	ppb	98
79) o-Xylene	18.97	106	121731	18.81	ppb	95
80) Styrene	19.00	104	216009	19.34	ppb	90
81) Bromoform	19.43	173	62015	18.70	ppb	88
82) Isopropylbenzene	19.68	105	298583	18.72	ppb	98
83) Cyclohexanone	19.94	55	205010	298.36	ppb	94
85) 1,1,2,2-Tetrachloroethane	20.24	83	109933	19.45	ppb	97
86) 1,2,3-Trichloropropene	20.39	110	32689	21.77	ppb	96

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8257.D
 Acq On : 3 Jul 108 11:12 am
 Sample : LCS
 Misc :
 Quant Time: Jul 3 11:42 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
87) Trans-1,4-Dichloro-2-Buten	20.36	53	23031	17.85	ppb	82
88) n-Propylbenzene	20.52	91	291964	17.36	ppb	100
89) Bromobenzene	20.42	156	91382	19.85	ppb	90
90) 1,3,5-Trimethylbenzene	20.84	105	167294	17.43	ppb	98
91) 2-Chlorotoluene	20.78	91	225502	18.79	ppb	99
92) 4-Chlorotoluene	20.99	91	214586	20.27	ppb	100
93) tert-Butylbenzene	21.56	119	161044	17.49	ppb	100
94) 1,2,4-Trimethylbenzene	21.66	105	159562	17.81	ppb	97
95) sec-Butylbenzene	22.01	105	221754	18.87	ppb	96
96) p-Isopropyltoluene	22.28	119	168761	17.75	ppb	96
97) 1,3-Dclbenz	22.34	146	138520	18.96	ppb	97
98) 1,4-Dclbenz	22.51	146	134695	19.11	ppb	95
99) n-Butylbenzene	23.18	91	128976	16.81	ppb	99
100) 1,2-Dclbenz	23.36	146	133878	19.30	ppb	99
101) 1,2-Dibromo-3-chloropropan	25.18	157	15759	16.59	ppb	83
103) 1,2,4-Tcbenzene	27.31	180	46227	16.45	ppb	98
104) Hexachlorobt	27.62	225	23866	20.05	ppb #	82
105) Naphthalen	27.91	128	108031	16.26	ppb	99
106) 1,2,3-Tclbenzene	28.49	180	43278	16.63	ppb	92

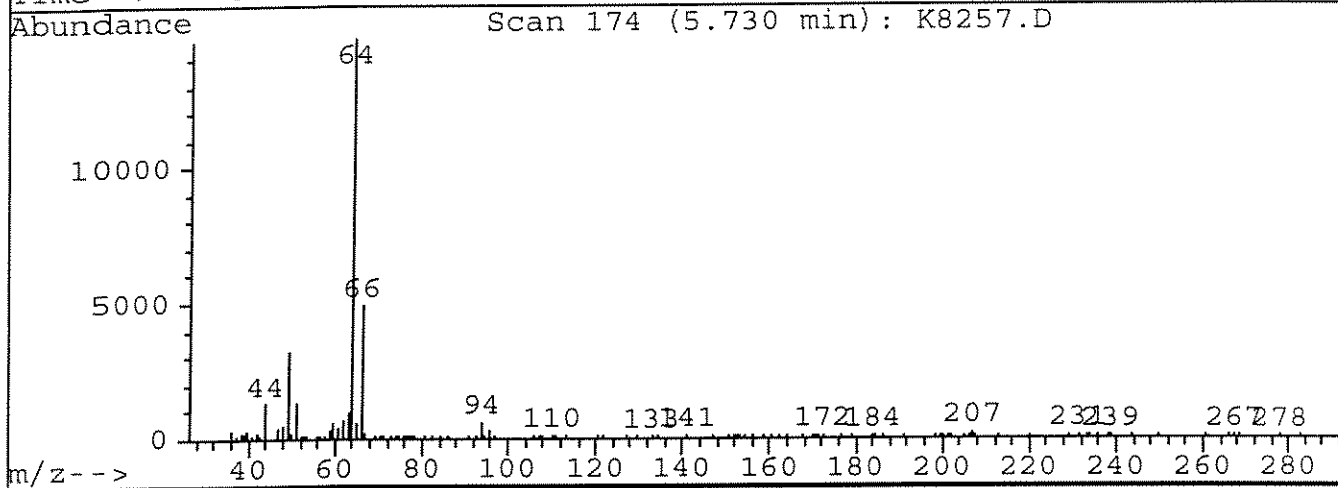
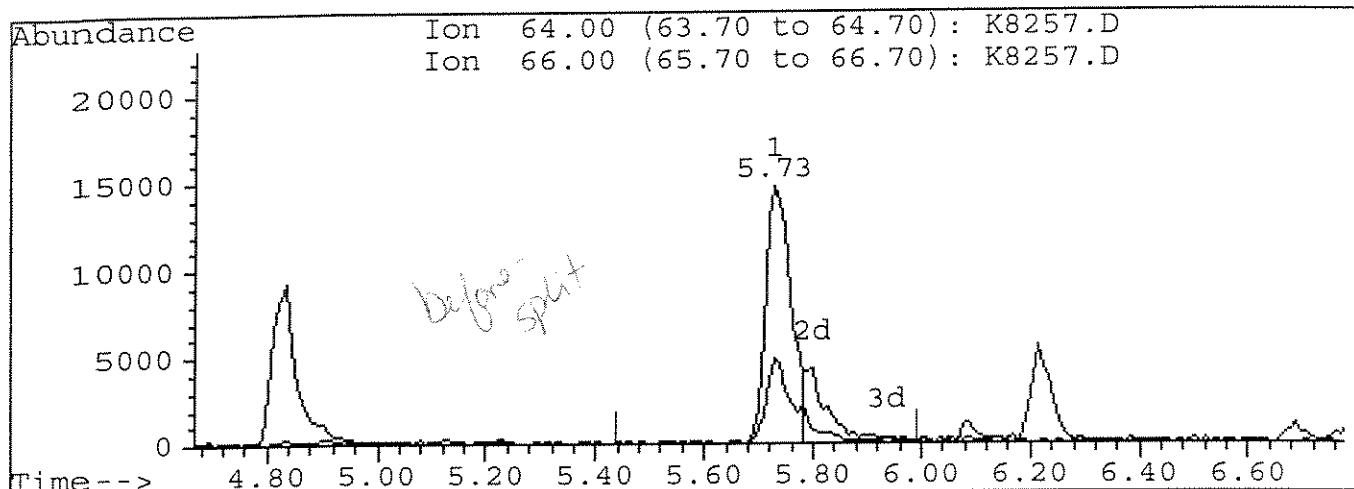
76) mpxylene 16.15 255003 37.97 ppb (m)

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8257.D
 Acq On : 3 Jul 108 11:12 am
 Sample : LCS
 Misc :
 Quant Time: Jul 3 11:42 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration



TIC: K8257.D

(6) Chloroethane
 5.73min 16.39ppb
 response 47198

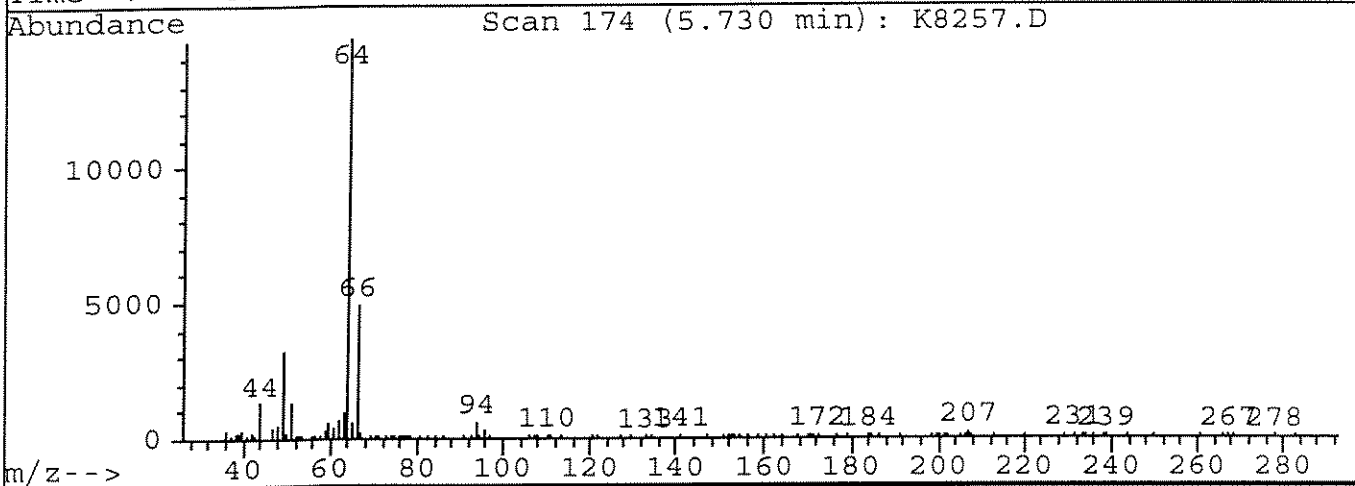
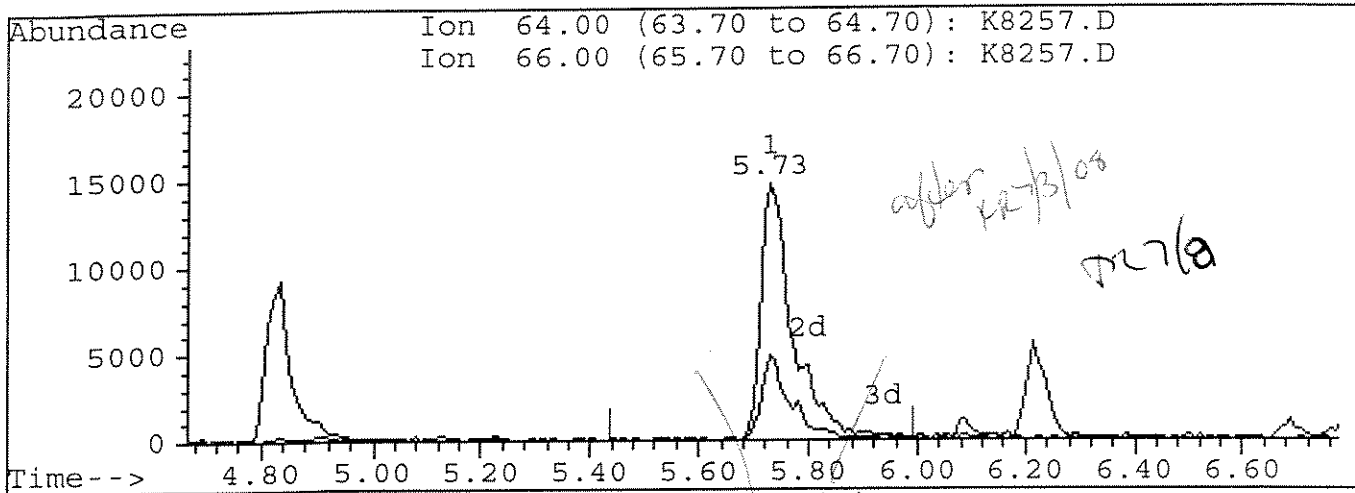
Ion	Exp%	Act%
64.00	100	100
66.00	33.00	33.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8257.D
 Acq On : 3 Jul 108 11:12 am
 Sample : LCS
 Misc :
 Quant Time: Jul 3 12:27 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration



TIC: K8257.D

(6) Chloroethane
 5.73min 20.42ppb m
 response 58818

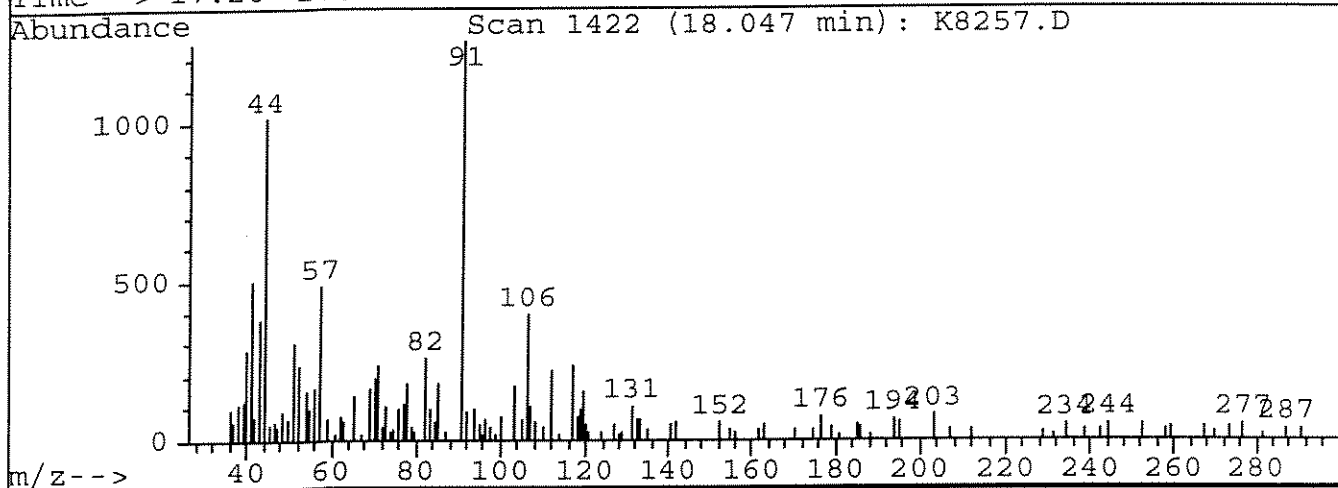
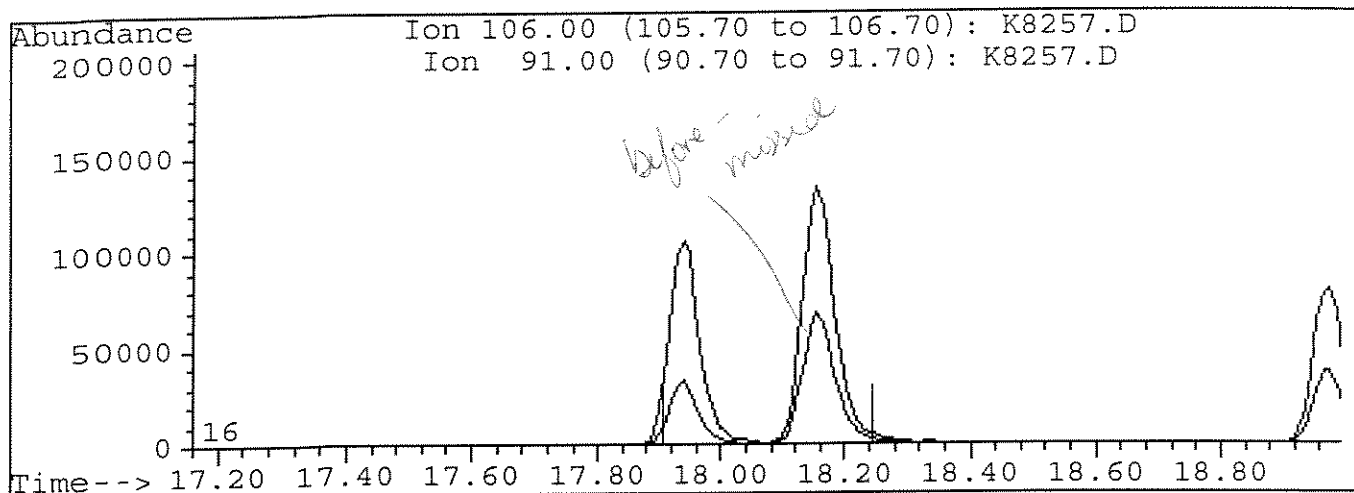
Ion	Exp%	Act%
64.00	100	100
66.00	33.00	33.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8257.D
 Acq On : 3 Jul 108 11:12 am
 Sample : LCS
 Misc :
 Quant Time: Jul 3 12:27 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration



TIC: K8257.D

(78) (m+p)Xylene
 18.05min 0.00ppb d
 response 0

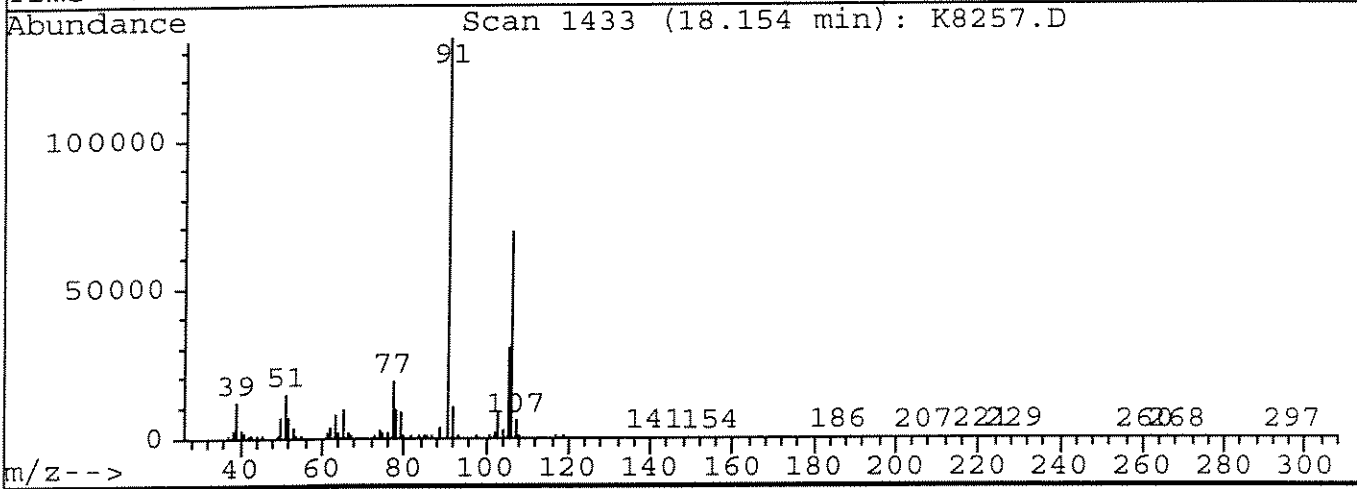
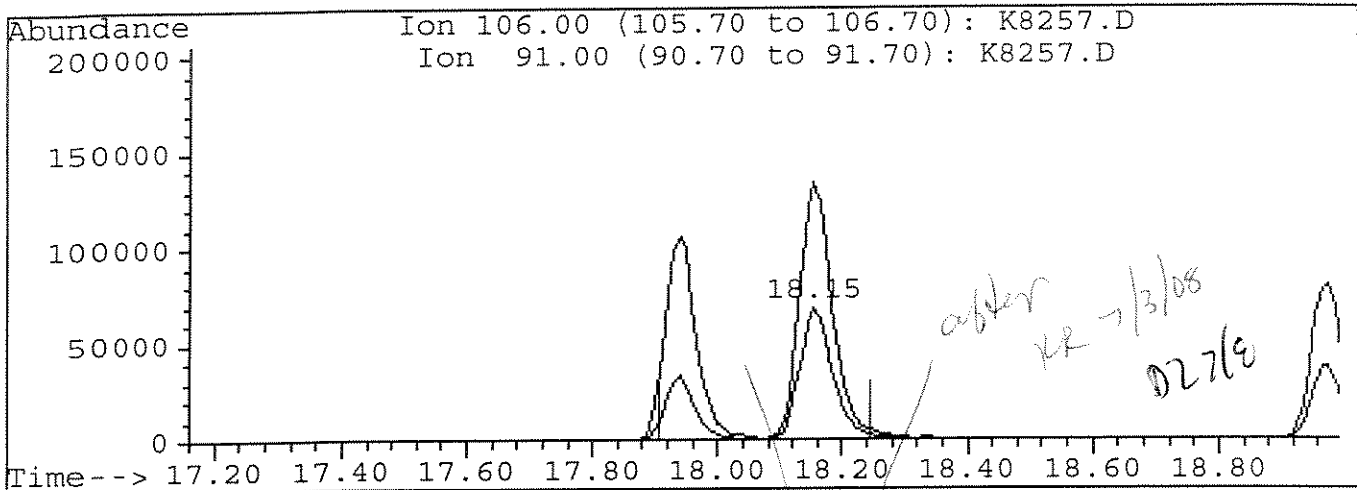
Ion	Exp%	Act%
106.00	100	0.00
91.00	190.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\070308\K8257.D
 Acq On : 3 Jul 108 11:12 am
 Sample : LCS
 Misc :
 Quant Time: Jul 3 12:28 19108

Vial: 1
 Operator: K.Ruest
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\WAT0317.M
 Title : 8260voa
 Last Update : Wed Mar 26 15:06:45 2008
 Response via : Multiple Level Calibration



TIC: K8257.D

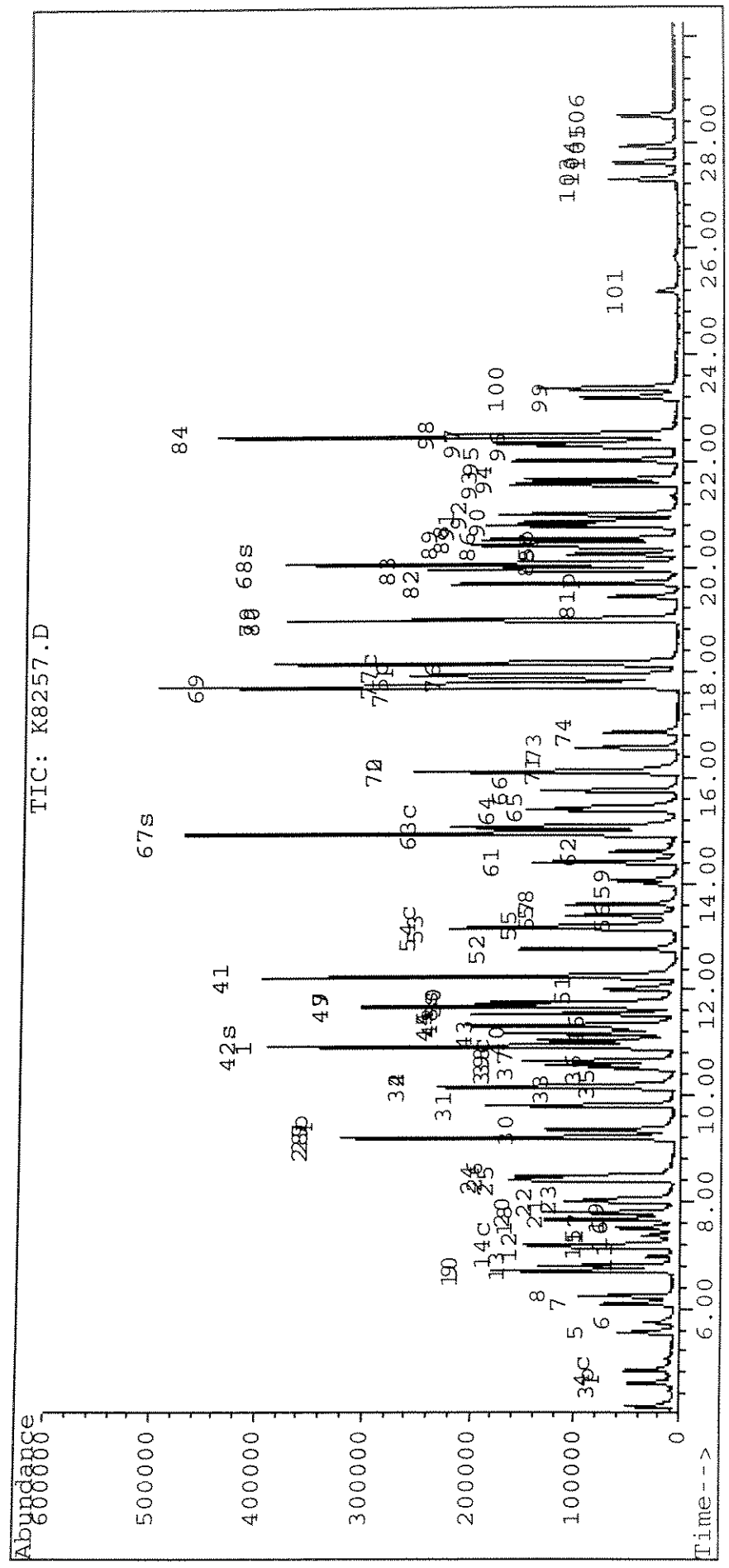
(78) (m+p)Xylene
 18.15min 39.97ppb m
 response 255003

Ion	Exp%	Act%
106.00	100	100
91.00	190.50	194.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQDATA\MSVOA5\DATA\070308\K8257.D Vial: 1
Acq On : 3 Jul 108 11:12 am Operator: K.Ruest
Sample : LCS Inst : 5971 - In
Misc : Multiplr: 1.00
Quant Time: Jul 3 11:42 19108

Method : J:\ACQDATA\MSVOA5\METHODS\WAT0317.M
Title : 8260voa
Last Update : Wed Mar 26 15:06:45 2008
Response via : Multiple Level Calibration

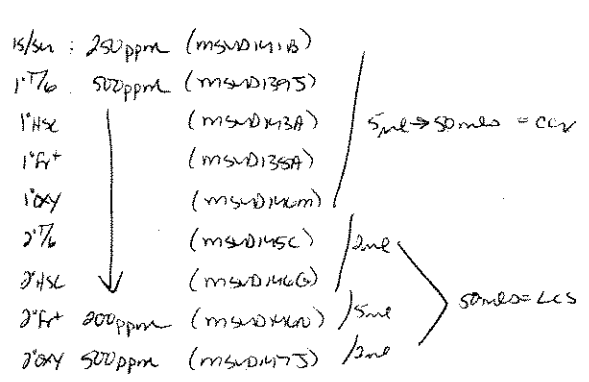
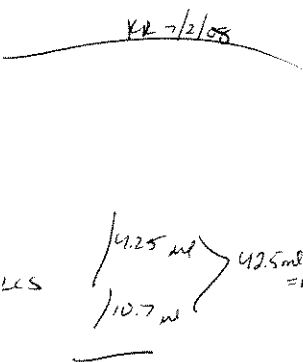


00171

MS/DAS 7/3/08

7031-08/WAT0817
8200B Waters

pH	M#	File	OK	Comments	dil	Pos	Sampled	Run#	1103539/2121	pH	M#	File	OK	Comments
		X8227				1	BLK					X8254		
		X8228	N			2	TIME - 2nd DI (MS/D) 109K) 25 ppm = 5mg					X8255	Y	10:01
		X8229	N	176/175		1	CCV					X8256	Y	
		X8230	N			1	LCS	1115243				X8257	Y	
		X8231	Y	11-51		1	MET BLK					X8258	N	
		X8232	Y			2	↓	1115242				X8259	Y	
		X8233	Y			3	MED BLK					X8260	Y	
		X8234	N		5mls	4	PB 7.1.08	1115244			(72)	X8261	Y	
		X8235	Y		↓	5	PB 7.1.08					X8262	Y	
		X8236	Y		10/50mls	6	1112220 10.0 (P26-44459 8200B.TCLP)					X8263	Y	
5)	L2	X8237	Y			7	1113508 10.0 (P26-44760 8200B.TCLP)					X8264	Y	
)	L2	X8238	Y			8	1113507 10.0					X8265	Y	
	L2	X8239	Y			9	1113509 10.0					X8266	Y	
		X8240	Y	asix		10	1113507 100,000 (P26-44772 8200B.WSTF/LCS)					X8267	Y	
		X8241	Y			11	1113508 100,000					X8268	Y	
		X8242	Y			12	1111079 100,000 (P26-44610 8200B.XTMT)					X8269	Y	
		X8243	Y	ppt to confirm		13	1111080 100,000					X8270	Y	
1)		X8244	N	ppt / 50,000	15/10mls	14	1111078 100,000					X8271	Y	
)		X8245	N	ppt / 10,000	15/10mls	15	1110713 125 (P26-44526 8200B.TCLH)					X8272	Y	asix *out of hdd
		X8246	N		15/10mls	16	1113515 50,000 (P26-44459 8200B.CP)					X8273	N	asix *out of hdd
		X8247	N		15/10mls	17	1111078 100,000 MS (ENTER P26-44410 8200B.XTMT)					X8274	Y	
		X8248				18	↓	MSD				X8275	Y	asix
		X8249		2301 ✓		19	BLK - carbon error, did not m.r. - (P)					X8276		(P)
		X8250												
5)		X8251		ppt / 10,000 screen										
		X8252												
		X8253												



Reviewed & Approved
By: [Signature]
Date: 7/7/08

VOA TCLP EXTRACTION

Date: 7/1/08

Analyst: MLC

Order #	1113568	Method Blank	1112220	
Submission #	R-44766		R-44659	
Analysis	8021 / <u>8260</u>	<u>8021 /</u> <u>8260</u>	8021 / <u>8260</u>	8021 / 8260
Sample Description	Brown medium	clear colorless	Black medium	
Percent Solid Determination	Yes Not Applicable	Yes Not Applicable	Yes Not Applicable	Yes Not Applicable
wgt of total sample:	25g	-	25g	
wgt of liquid:	-	-	-	
wgt of solid:	-	-	-	
% Solids:	-	-	-	
amount of Ext. Fluid: (20x%Solidsxwgt of total sample/100)	500ml	500ml	500ml	
Particle size reduction (9.5mm sieve)	<u>Yes</u> No	<u>Yes</u> No	<u>Yes</u> No	Yes No
Extraction Procedure				
Extraction Fluid #1 pH=	4.88	4.8	4.90	
ZHE Extractor #	5	3	7	
Record of Extraction				
Extraction start Time 7/1	1600pm	→		
Extraction stop Time 7/2	0915am	→		
Minimum Temp (23°C +/-2°)	19°C	→		
Maximum Temp (23°C +/-2°)	22°C	→		
O-Ring / Vessel Check	✓✓	✓✓	✓✓	
ZHE Pressure Start/Stop	✓✓	✓✓	✓✓	

NaOH Lot # m1780876

CH3COOH Lot # m178084K

Extraction Fluid 1: 130ml NaOH + 11.4ml CH3COOH → 2000ml DI

DIESEL/OIL RANGE ORGANICS

QC SUMMARY

Method Blank Summary

Lab Name: Columbia Analytical *Contract:* ENSR INTERNATIONAL
Lab Code: 10145 *Case.No.:* R2844659 *SAS No.:* _____ *SDG* 001
Lab Sample 1112839 1.0 *Lab File ID:* AF176.D
Matrix: SOIL *Level: (low/med)*
Date extracted: 06/27/08 *Extraction: (Sepf/Cont/Sonc)* Sonc
Date analyzed: (1) 6/30/2008 *Date analyzed:* (2)
Time analyzed: (1) 13:23 *Time analyzed:* (2)
Instrument ID: (1) 6890-I *Instrument ID:* (2)
GC Column(1) (1) ZB-5 *GC* (2)

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>
PBLK01MS	1112840 1.0	6/30/2008	
PBLK01MSD	1112841 1.0	6/30/2008	
001	1112221 1.0	6/30/2008	

DETECTION LIMIT STUDY

MDL IDL

METHOD 8015B.DEI
 SAMPLE PREP. METHOD 3550B
 INSTRUMENT ID. 6890-I
 DETECTOR FID
 COLUMN Phenomenex ZB-5 30m x .32mm x 0.50um

DATE 2/2008

ANALYST G. LaForce

Compound/Analyte	Spike Conc. (mg/KG)	Trial #	Trial #	Trial #	Trial #	Trial #	Trial #	Trial #	Mean (mg/KG)	Std. Dev.	CALC. MDL (mg/KG)	MRL** (mg/KG)
Deisel Range Organics	40	1	2	3	4	5	6	7	33.7606	2.402561	7.544041	40

DIESEL/OIL RANGE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B DIESEL/OIL RANGE
Reported: 07/18/08

ENSR International
Project Reference: NEW - TAILINGS
Client Sample ID : 001

Date Sampled : 06/24/08 Order #: 1112221 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/08 Submission #: R2844659 Percent Solid: 67.9

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED			
DATE ANALYZED			
ANALYTICAL DILUTION:	1.00		Dry Weight
DIESEL RANGE ORGANICS	40000	59000 U	UG/KG
OIL RANGE ORGANICS	40000	75000	UG/KG
<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
O-TERPHENYL	(68 - 138 %)	93	%

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF180.D
 Signal(s) : FID2B.CH
 Acq On : 30 Jun 2008 4:51 pm
 Operator : m.pedro
 Sample : 1112221 1.0
 Misc : 06/27/08 2.5 8015b.oro ensr r44659
 ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jul 01 06:50:46 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Compound	R.T.	Response	Conc Units

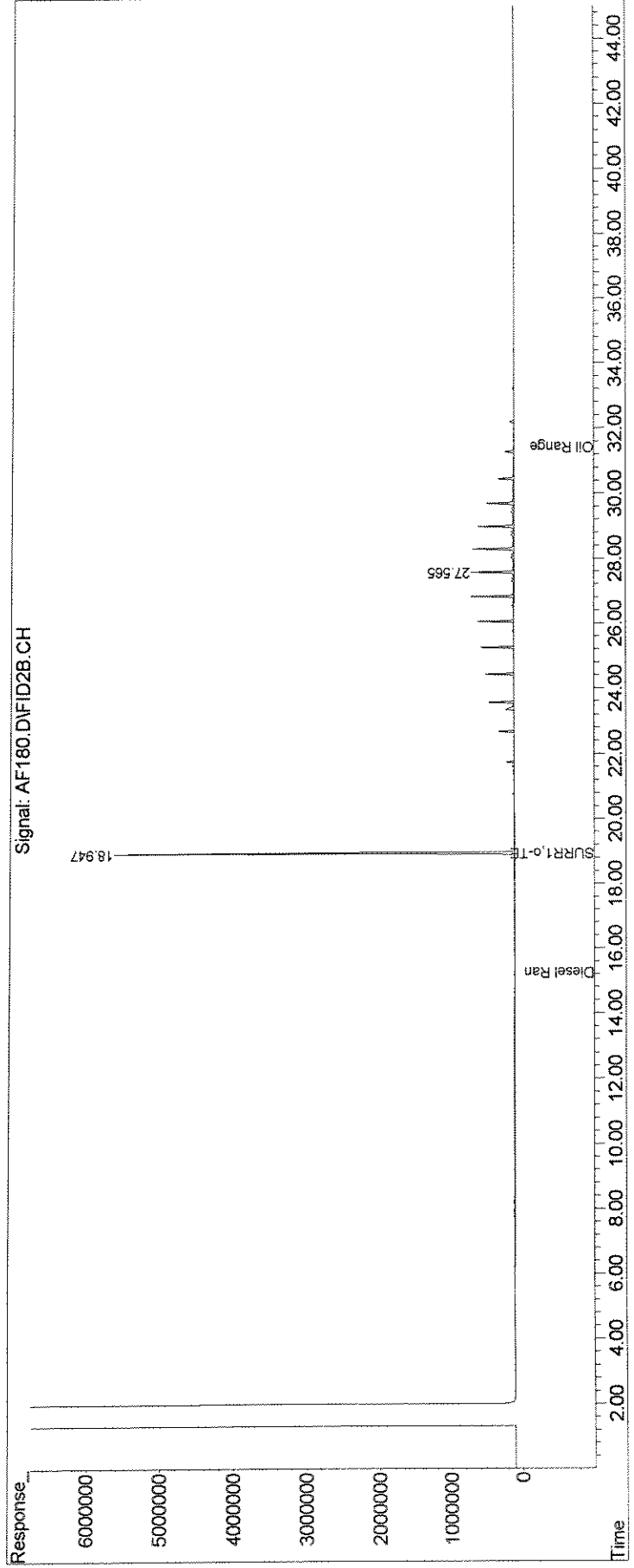
System Monitoring Compounds			
1) S SURR1,o-TERPHENYL	18.947	124562089	93.270 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	93.27%
Target Compounds			
2) HC Diesel Range Organics	15.265	105869560	89.400 mg/l
3) HC Oil Range Organics	31.442	122478459	127.651 mg/l

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQDATA\6890I\DATA\063008\
Data File : AF180.D
Signal(s) : FID2B.CH
Acq On : 30 Jun 2008 4:51 pm
Operator : m.pedro
Sample : 1112221 1.0
Misc : 06/27/08 2.5 8015b.oro ensr r44659
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 01 06:50:46 2008
Quant Method : J:\ACQDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped
Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



00182

DIESEL/OIL RANGE ORGANICS
STANDARDS DATA

Calibration Level Concentrations

Columbia Analytical

PCB ANALYTE	Calib Mix	Level #1 ppm	Level #2 ppm	Level #3 ppm	Level #4 ppm	Level #5 ppm
Diesel Range Organics		5000	2000	1000	500	100
Oil Range Organics		3500	1400	700	350	70
SURR o-Terphenyl		100	80	40	20	10

Response Factor Report HP G1530A

Method Path : J:\ACQUADATA\6890I\methods\
 Method File : ORO0612.M
 Title : EPA Method 8015B Deisel and Oil Range Organics
 Last Update : Fri Jun 13 08:33:05 2008
 Response Via : Initial Calibration

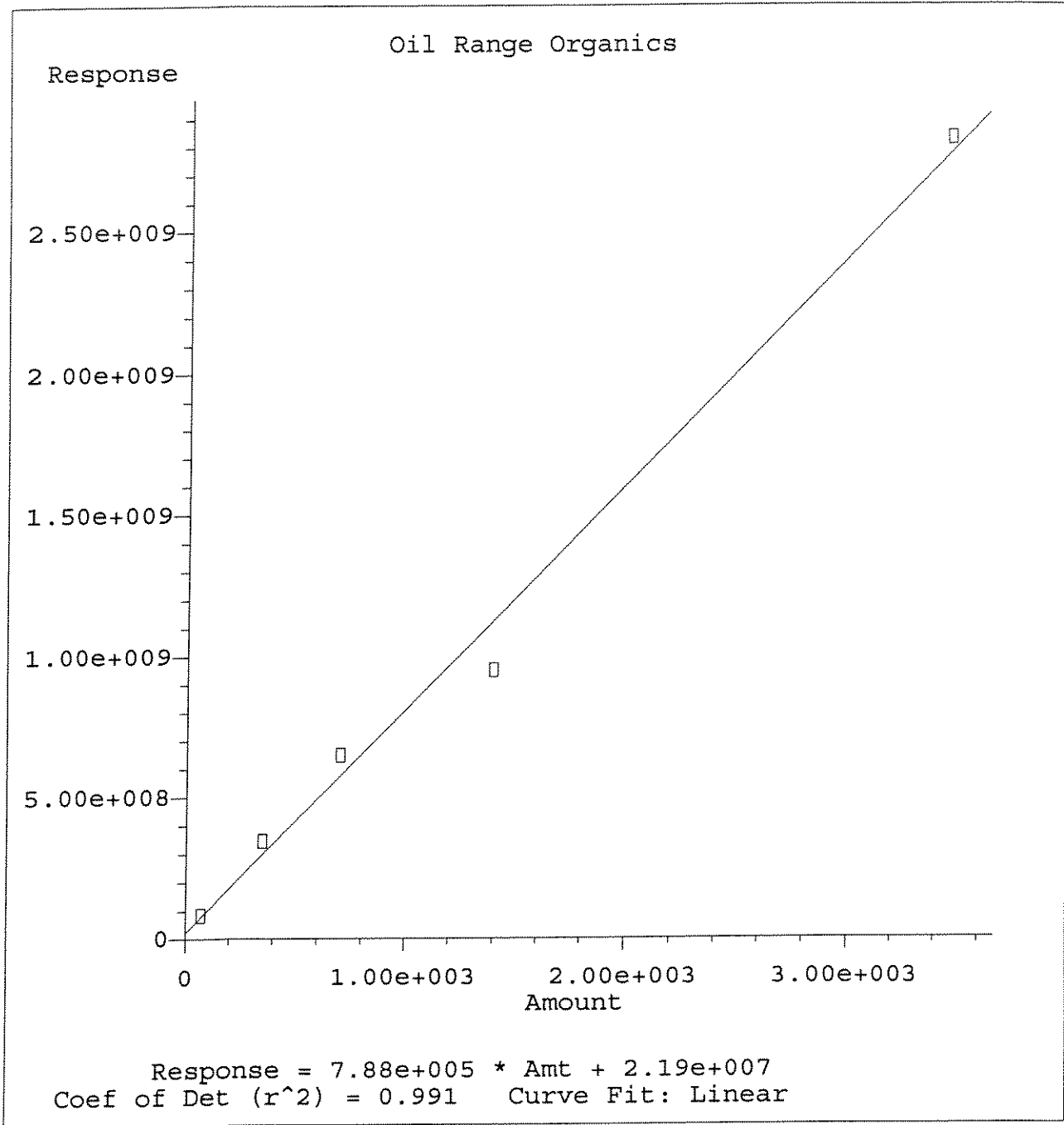
Calibration Files

1 =AF105.D 2 =AF104.D 3 =AF103.D
 4 =AF102.D 5 =AF101.D

RO/13

Compound		1	2	3	4	5	Avg	%RSD	
1) S	SURR1,o-TERPHENYL	1.328	1.330	1.370	1.356	1.294	1.336	E6	2.19
2) HC	Diesel Range Organics	1.159	1.129	1.194	1.197	1.242	1.184	E6	3.61
3) HC	Oil Range Organics	0.809	0.678	0.926	0.980	1.178	0.914	E6	20.54 <i>LR</i>

(#) = Out of Range



Method Name: J:\ACQUDATA\6890I\methods\ORO0612.M
Calibration Table Last Updated: Fri Jun 13 08:33:05 2008

Bv/13

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890I\DATA\061208\
 Data File : AF106.D
 Signal(s) : FID2B.CH
 Acq On : 12 Jun 2008 4:44 pm
 Operator : G. LaForce
 Sample : icv
 Misc : internal cal. check 0-559-179-a
 ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 13 08:34:23 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 13 08:33:53 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

06/13

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
2 HC Diesel Range Organics	1.184	1.208 E6	-2.0	101	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,o-TERPHENYL	1.336	0.000 E6	100.0#	0#	-18.97#
3 HC Oil Range Organics	914.191	0.000 E3	100.0#	0#	-31.44#

(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Data Path : J:\ACQUADATA\6890I\DATA\061208\
 Data File : AF106.D
 Signal(s) : FID2B.CH
 Acq On : 12 Jun 2008 4:44 pm
 Operator : G. LaForce
 Sample : icv
 Misc : internal cal. check 0-559-179-a
 ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 13 08:34:23 2008
 Quant Method : J:\ACQUADATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 13 08:33:53 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

6/13

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S SURR1, o-TERPHENYL	0.000	0	N.D. mg/l d
Spiked Amount 100.000	Range 56 - 128	Recovery =	0.00%#
Target Compounds			
2) HC Diesel Range Organics	15.265	604222485	510.228 mg/l
3) HC Oil Range Organics	0.000	0	N.D. mg/l

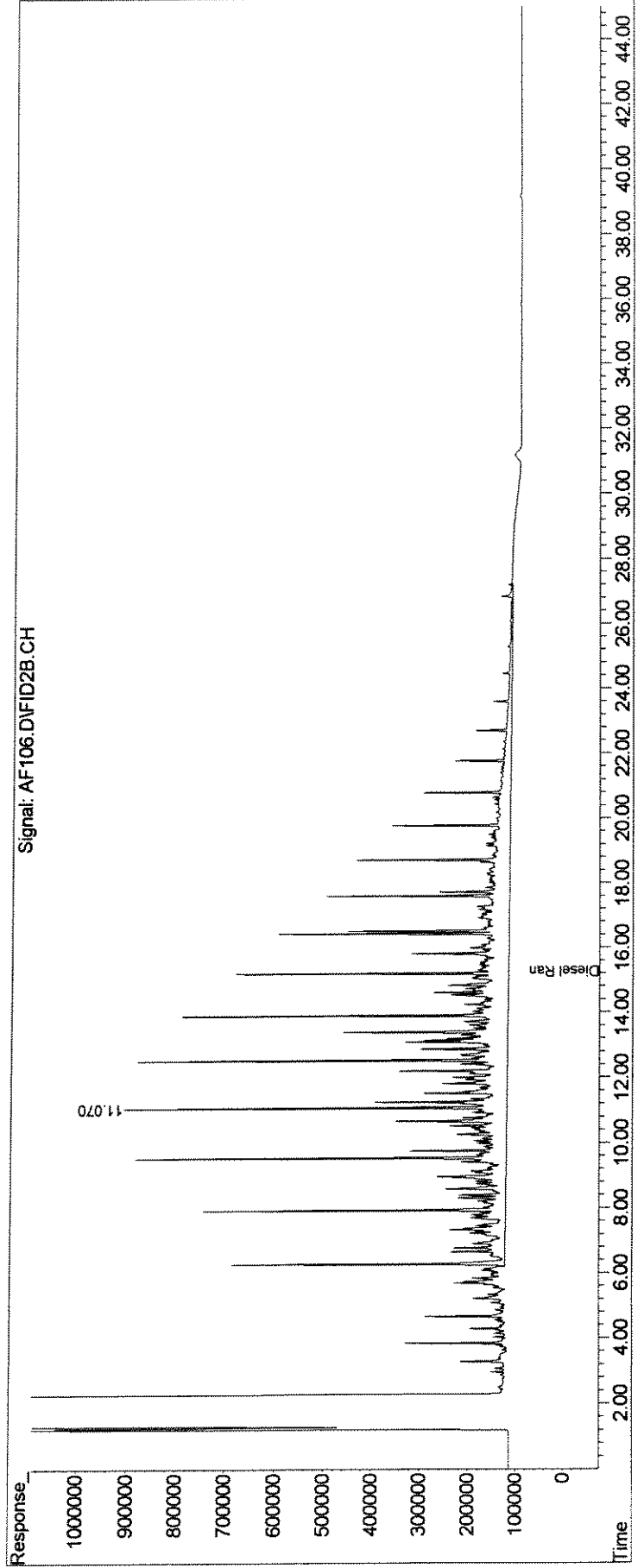
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF106.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 4:44 pm
Operator : G. LaForce
Sample : icv
Misc : internal cal. check 0-559-179-a
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:34:23 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:33:53 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



00109

Data Path : J:\ACQUDATA\6890I\DATA\061208\
 Data File : AF098.D
 Signal(s) : FID2B.CH
 Acq On : 12 Jun 2008 7:50 am
 Operator : G. LaForce
 Sample : mecl2
 Misc : instr. blank
 ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 13 08:51:39 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 13 08:33:53 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

06/13

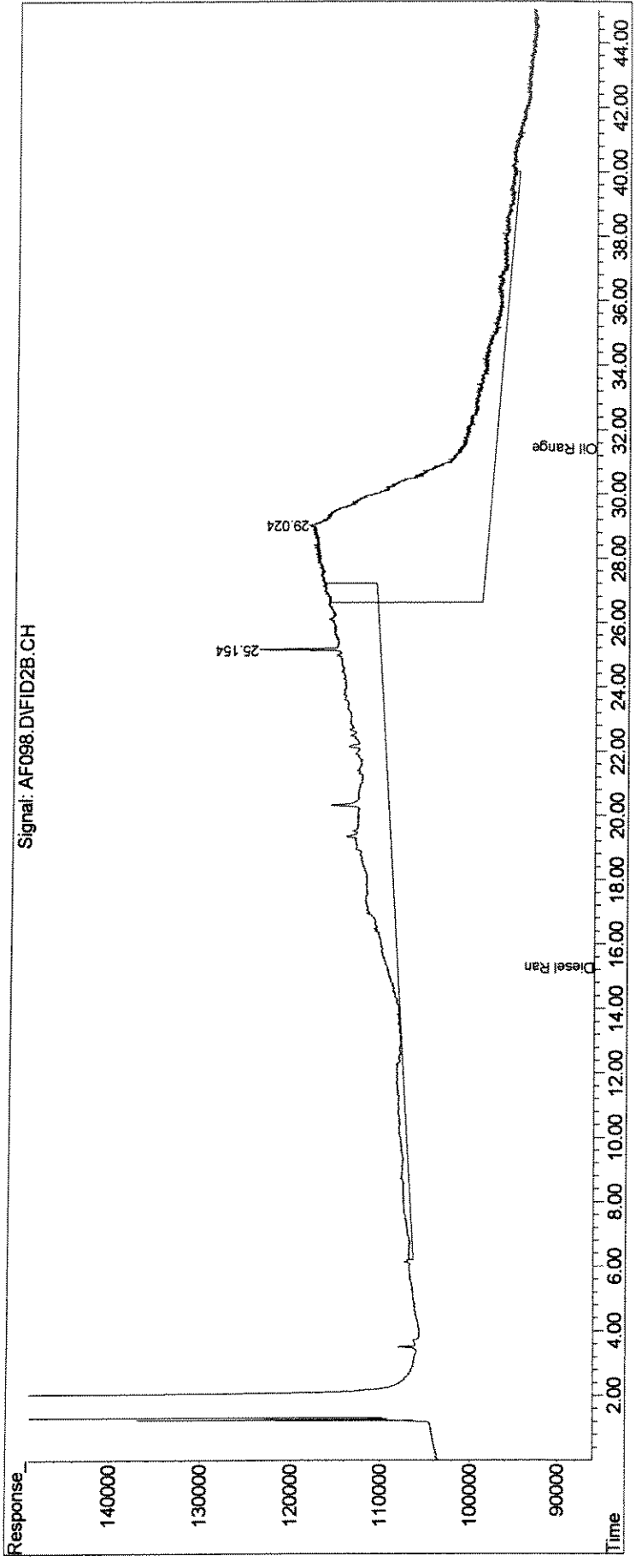
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S SURR1,o-TERPHENYL	0.000	0	N.D. mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	0.00%#
Target Compounds			
2) HC Diesel Range Organics	15.265	28950150	24.447 mg/l
3) HC Oil Range Organics	31.442	51212113	37.226 mg/l <i><MCL</i>

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF098.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 7:50 am
Operator : G. LaForce
Sample : mecl2
Misc : instr. blank
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:51:39 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:33:53 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped
Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



00191

Data Path : J:\ACQUDATA\6890I\DATA\061208\
 Data File : AF101.D
 Signal(s) : FID2B.CH
 Acq On : 12 Jun 2008 12:25 pm
 Operator : G. LaForce
 Sample : dro/oro low
 Misc : calibration 0-559-202-f
 ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 13 08:29:06 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 13 08:28:09 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Pl/13

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S SURR1,o-TERPHENYL	18.956	12935890	9.686 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	9.69%#
Target Compounds			
2) HC Diesel Range Organics	15.265	124194497	104.706 mg/l
3) HC Oil Range Organics	31.442	82471610	89.217 mg/l ^m

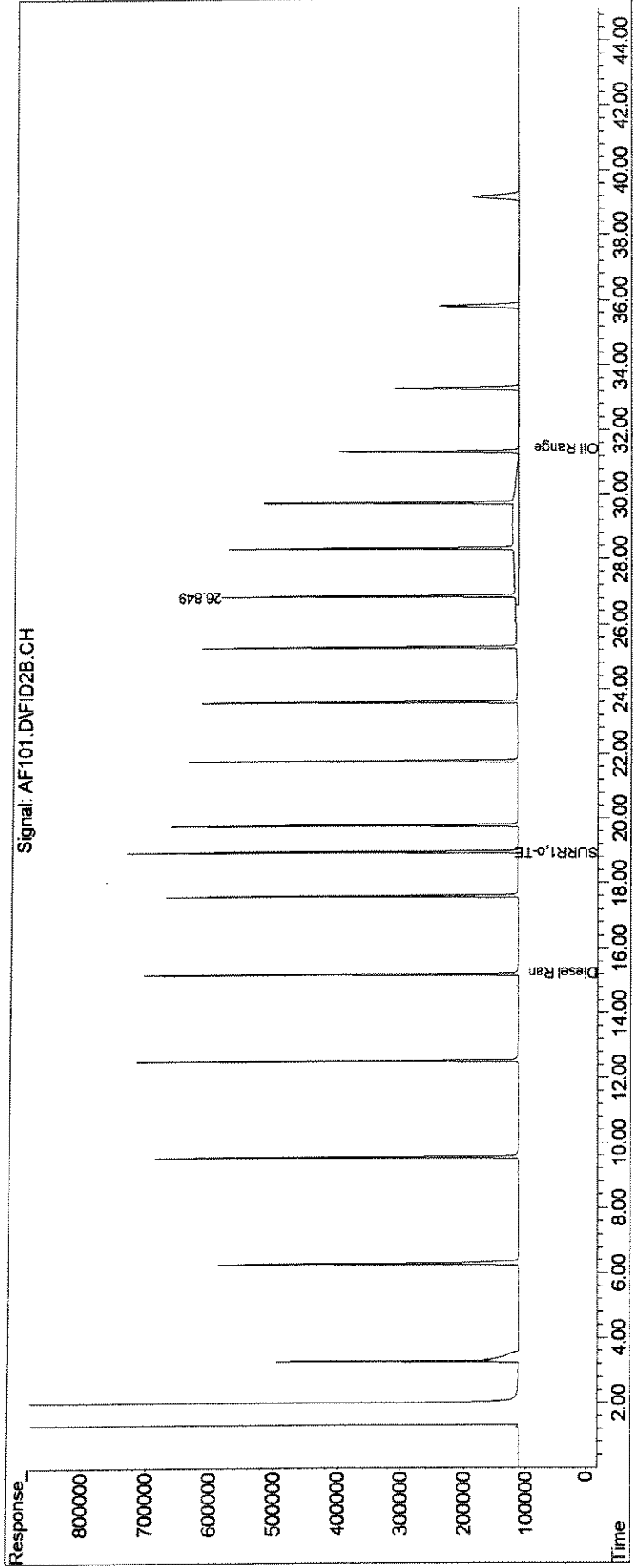
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF101.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 12:25 pm
Operator : G. LaForce
Sample : dro/oro low
Misc : calibration 0-559-202-f
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:29:06 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:28:09 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



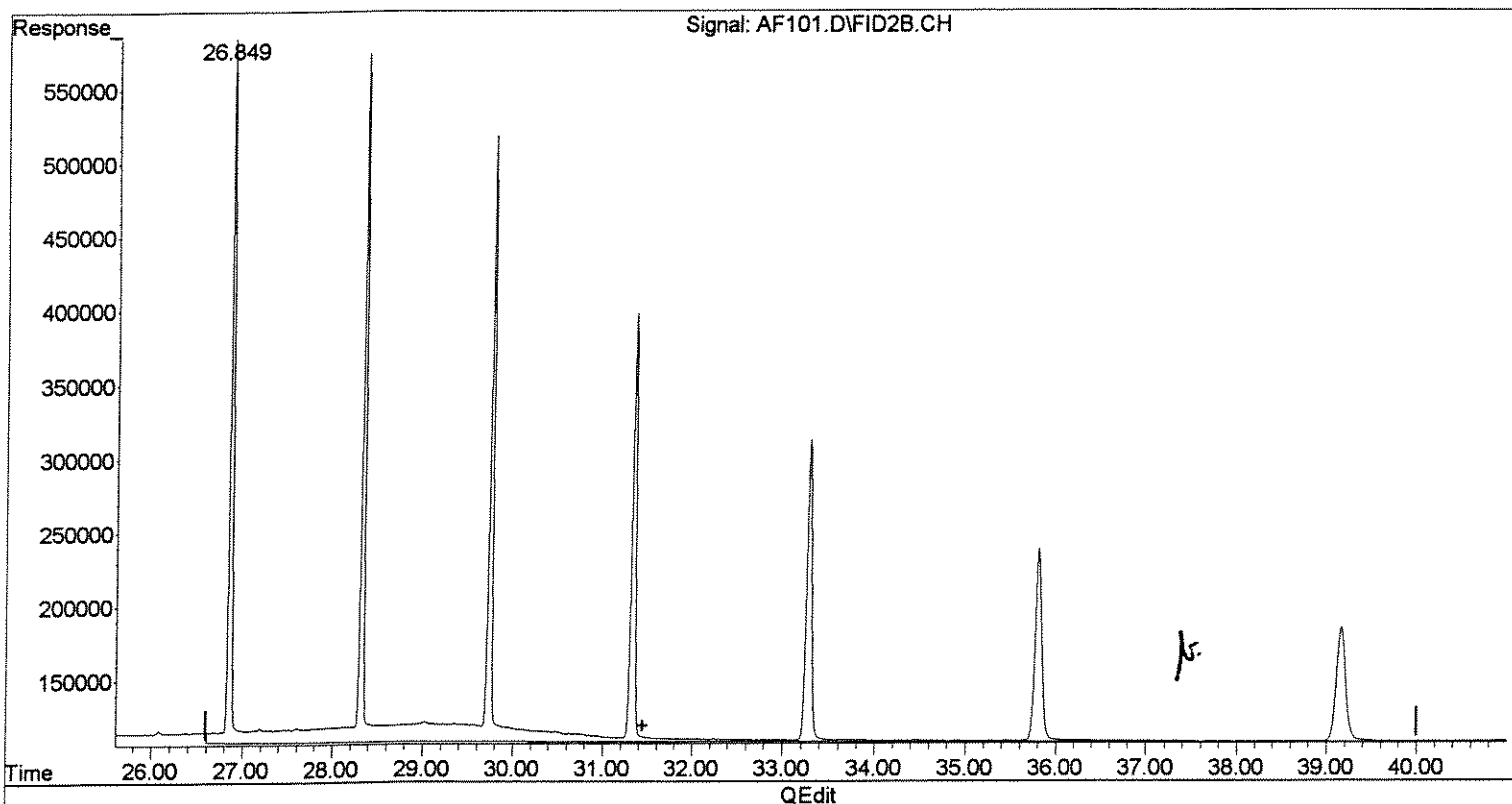
00193

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF101.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 12:25 pm
Operator : G. LaForce
Sample : dro/oro low
Misc : calibration 0-559-202-f
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:28:31 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:28:09 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(3) Oil Range Organics (HC)
31.442min 92.904mg/l m
response 85879784

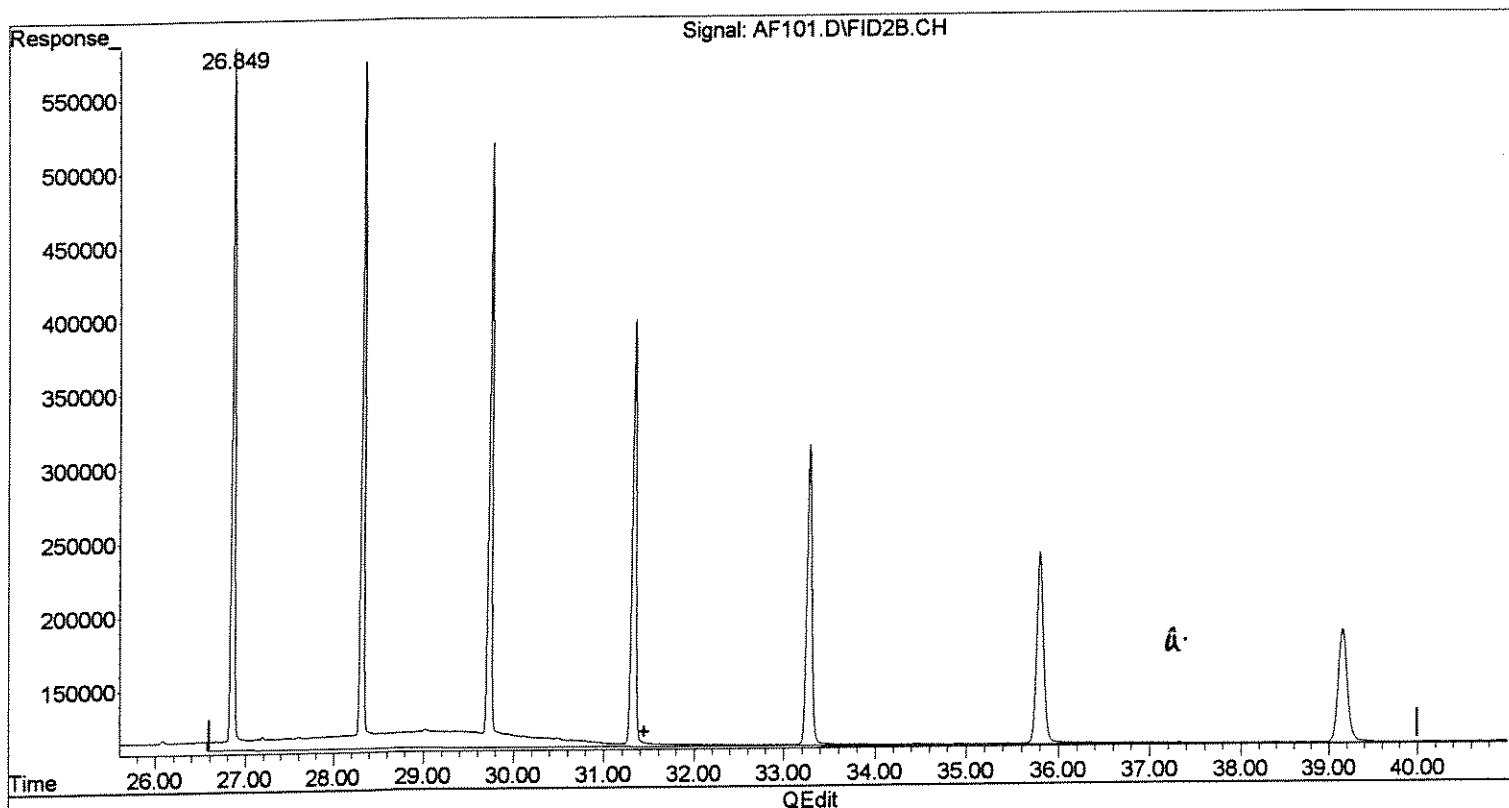
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF101.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 12:25 pm
Operator : G. LaForce
Sample : dro/oro low
Misc : calibration 0-559-202-f
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:28:31 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:28:09 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(3) Oil Range Organics (HC)
31.442min 89.217mg/l m
response 82471610

Handwritten:
Bred
6/13
4/3

Data Path : J:\ACQUDATA\6890I\DATA\061208\
 Data File : AF102.D
 Signal(s) : FID2B.CH
 Acq On : 12 Jun 2008 1:16 pm
 Operator : G. LaForce
 Sample : dro/oro med/low
 Misc : calibration 0-559-202-e
 ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 13 08:30:07 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 13 08:29:21 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Bo/13

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S SURR1, o-TERPHENYL	18.960	27124976	20.311 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	20.31%#
Target Compounds			
2) HC Diesel Range Organics	15.265	598734076	505.411 mg/l
3) HC Oil Range Organics	31.442	343106053	374.575 mg/l m

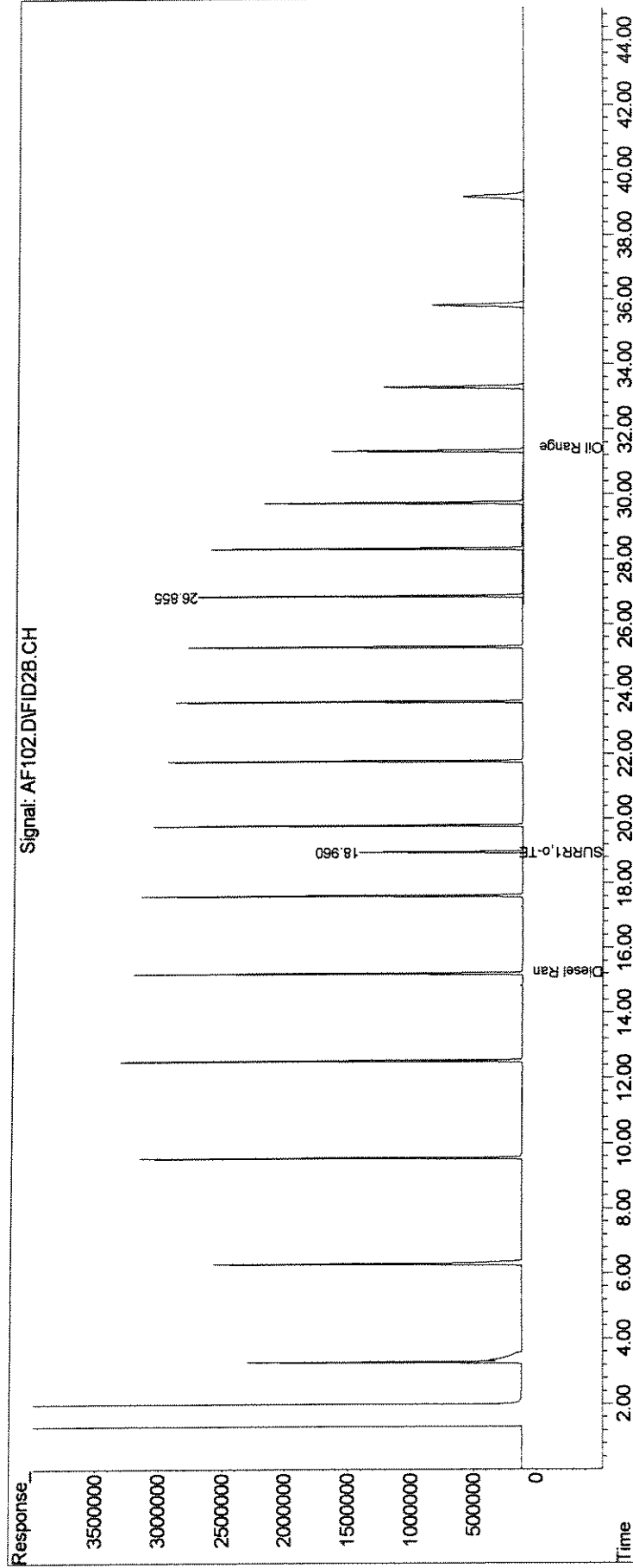
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF102.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 1:16 pm
Operator : G. LaForce
Sample : dro/oro med/low
Misc : calibration 0-559-202-e
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:30:07 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:29:21 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



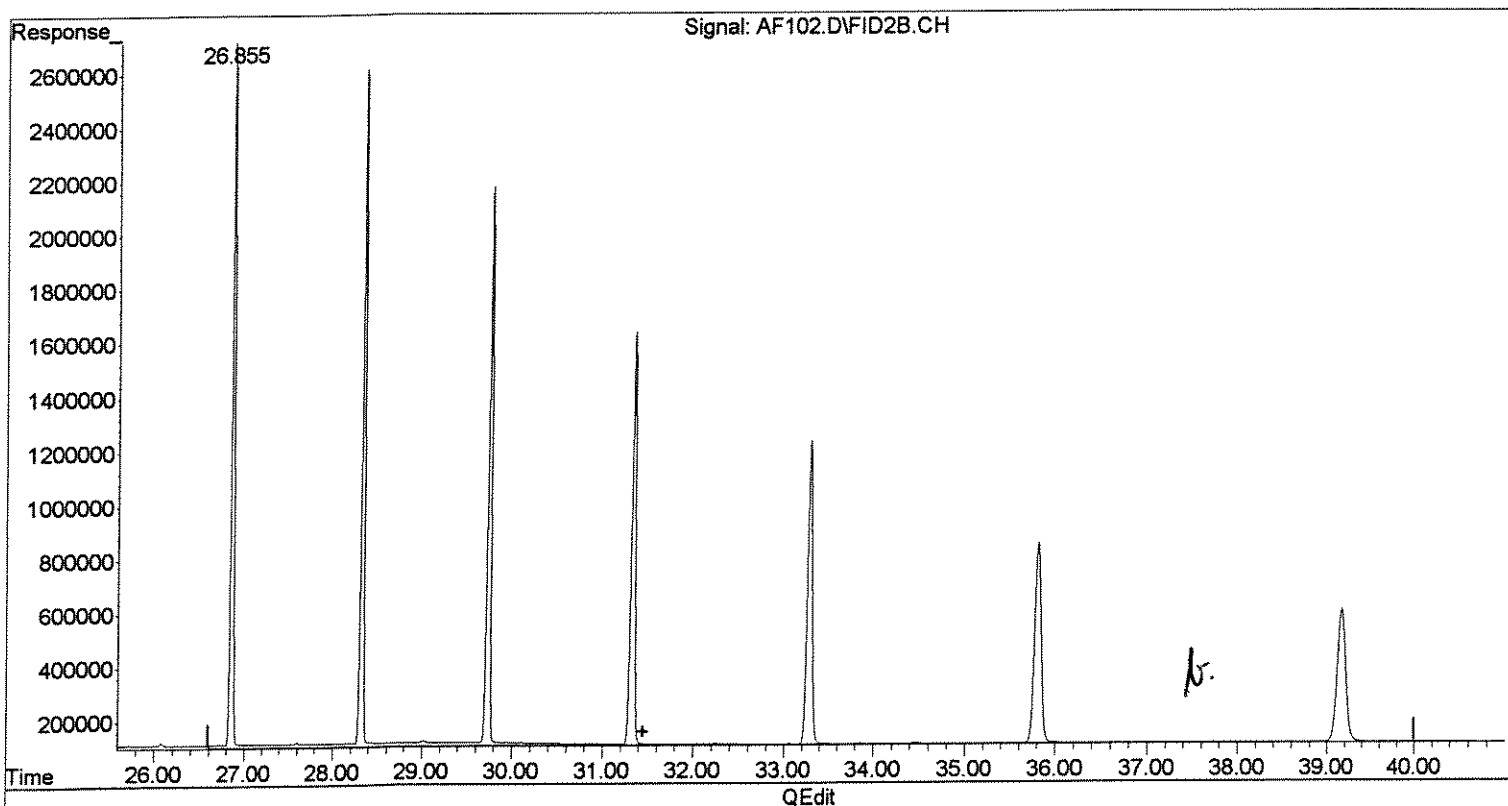
00197

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF102.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 1:16 pm
Operator : G. LaForce
Sample : dro/oro med/low
Misc : calibration 0-559-202-e
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:29:30 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:29:21 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



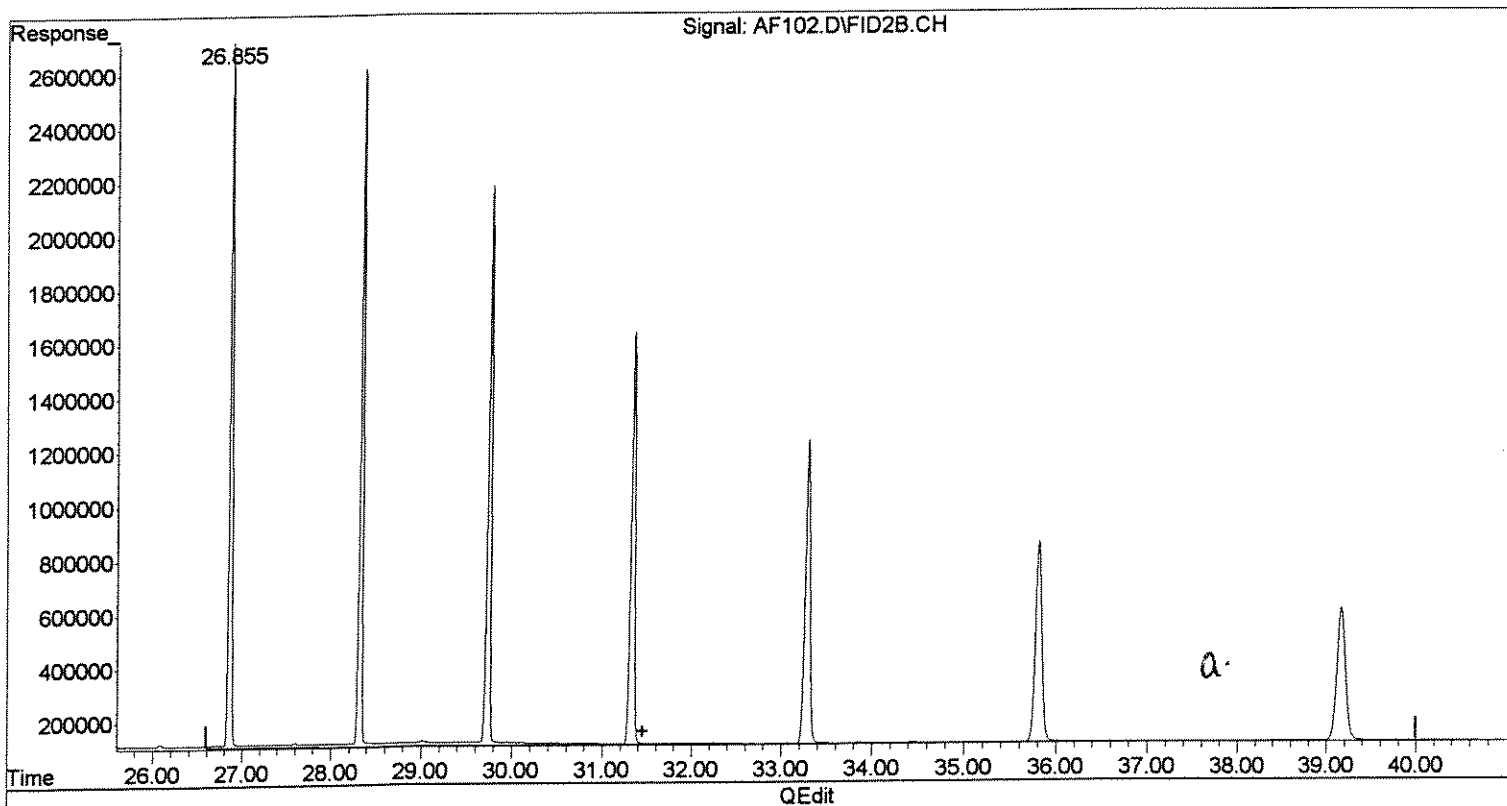
(3) Oil Range Organics (HC)
31.442min 378.764mg/l m
response 346942430

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF102.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 1:16 pm
Operator : G. LaForce
Sample : dro/oro med/low
Misc : calibration 0-559-202-e
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:29:30 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:29:21 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(3) Oil Range Organics (HC)
31.442min 374.575mg/l m
response 343106053

Handwritten signature
6/13

Handwritten initials
ML
6/13

Data Path : J:\ACQUADATA\6890I\DATA\061208\
 Data File : AF103.D
 Signal(s) : FID2B.CH
 Acq On : 12 Jun 2008 2:08 pm
 Operator : G. LaForce
 Sample : dro/oro med
 Misc : calibration 0-559-201-d
 ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 13 08:31:03 2008
 Quant Method : J:\ACQUADATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 13 08:30:23 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

06/13

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S SURR1, o-TERPHENYL	18.964	54780937	41.019 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	41.02%#
Target Compounds			
2) HC Diesel Range Organics	15.265	1194223785	1008.309 mg/l
3) HC Oil Range Organics	31.442	647913737	708.741 mg/l ^m

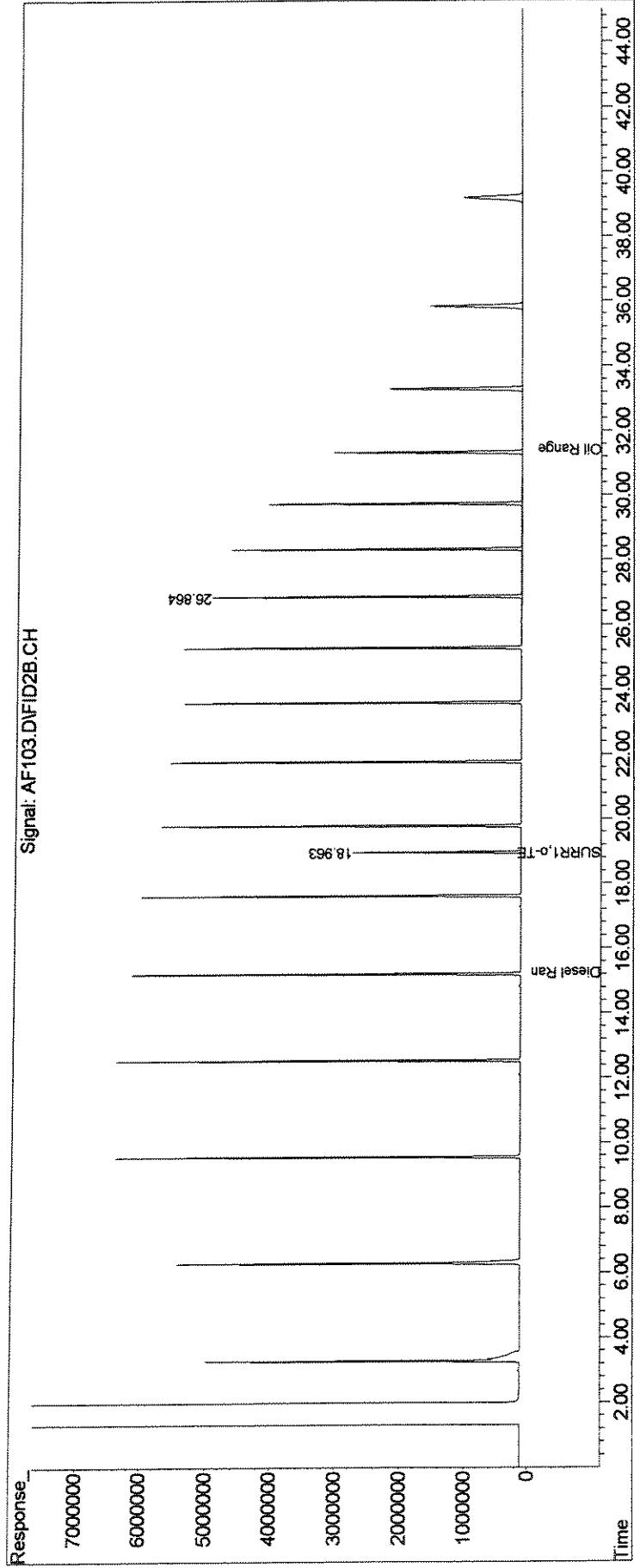
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQDATA\6890I\DATA\061208\
Data File : AF103.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 2:08 pm
Operator : G. LaForce
Sample : dro/oro med
Misc : calibration 0-559-201-d
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:31:03 2008
Quant Method : J:\ACQDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:30:23 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



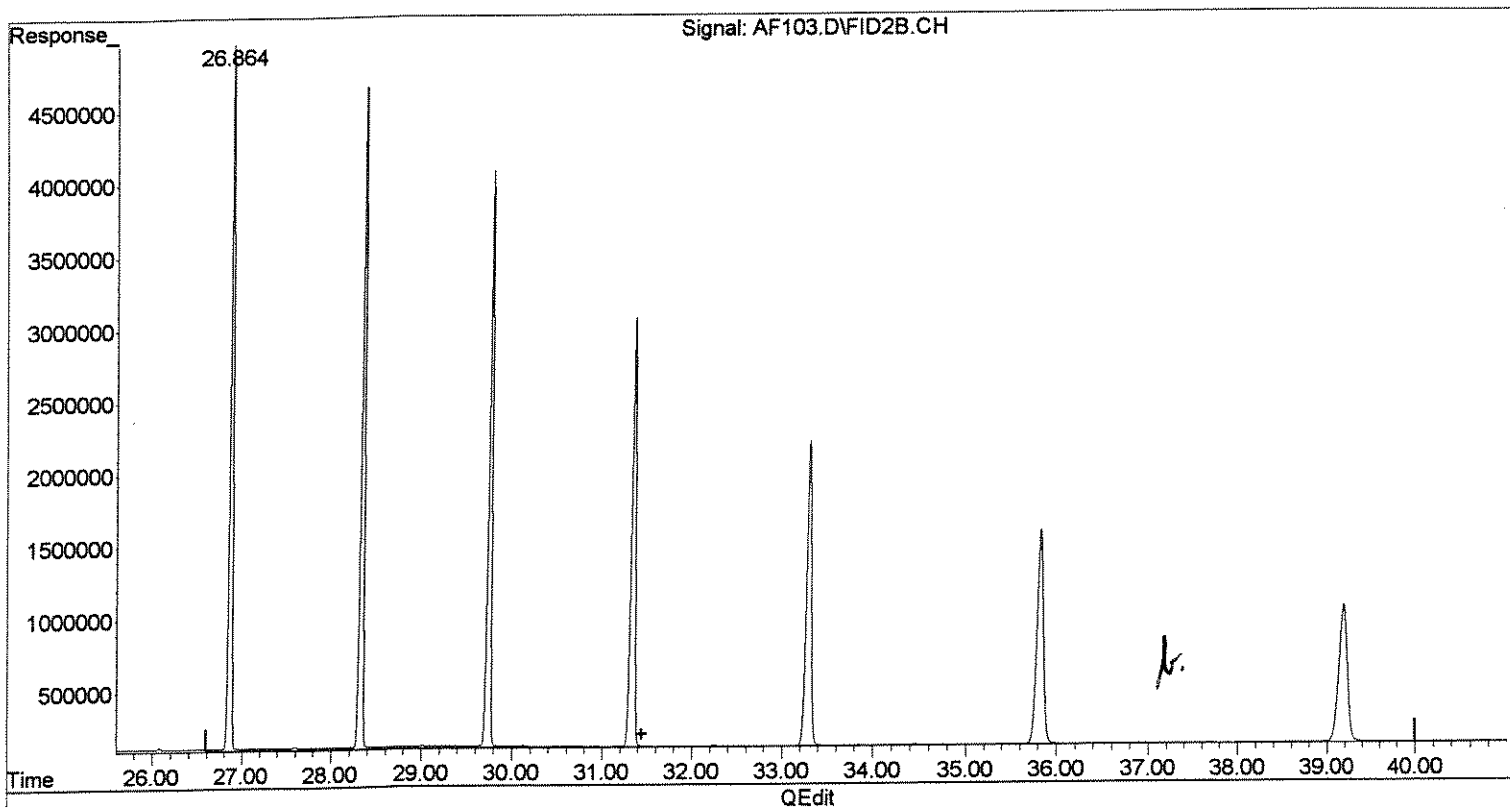
00201

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF103.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 2:08 pm
Operator : G. LaForce
Sample : dro/oro med
Misc : calibration 0-559-201-d
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:30:39 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:30:23 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



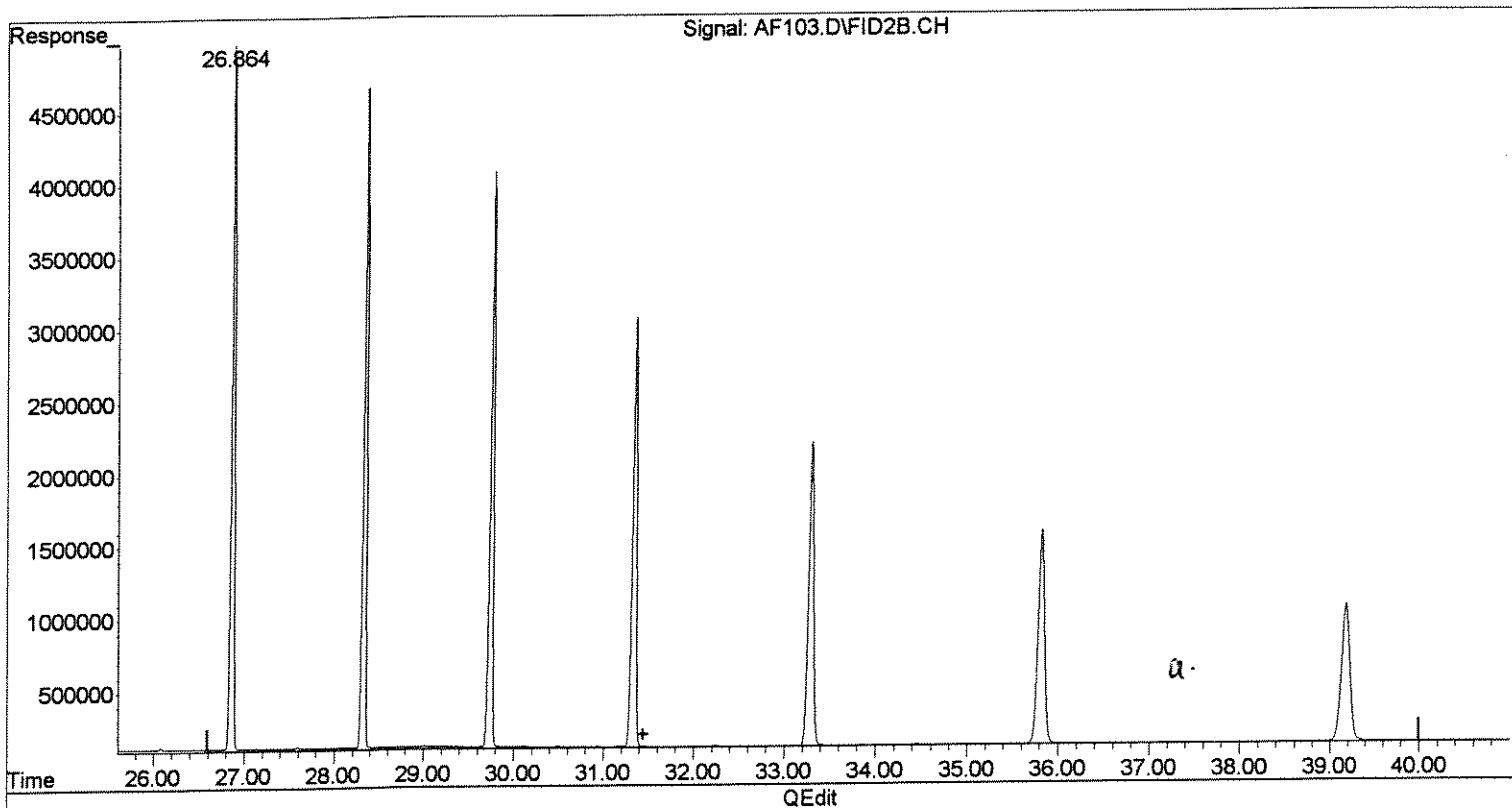
(3) Oil Range Organics (HC)
31.442min 710.590mg/l m
response 649603798

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF103.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 2:08 pm
Operator : G. LaForce
Sample : dro/oro med
Misc : calibration 0-559-201-d
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:30:39 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:30:23 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(3) Oil Range Organics (HC)
31.442min 708.741mg/l m
response 647913737

bailed
6/13

6/13

Data Path : J:\ACQUDATA\6890I\DATA\061208\
 Data File : AF104.D
 Signal(s) : FID2B.CH
 Acq On : 12 Jun 2008 3:00 pm
 Operator : G. LaForce
 Sample : dro/oro med/high
 Misc : calibration 0-559-202-c
 ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 13 08:32:04 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 13 08:31:24 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

10/13

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S SURR1,o-TERPHENYL	18.972	106399109	79.670 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	79.67%
Target Compounds			
2) HC Diesel Range Organics	15.265	2257856552	1906.508 mg/l
3) HC Oil Range Organics	31.442	949159508	1038.547 mg/l m

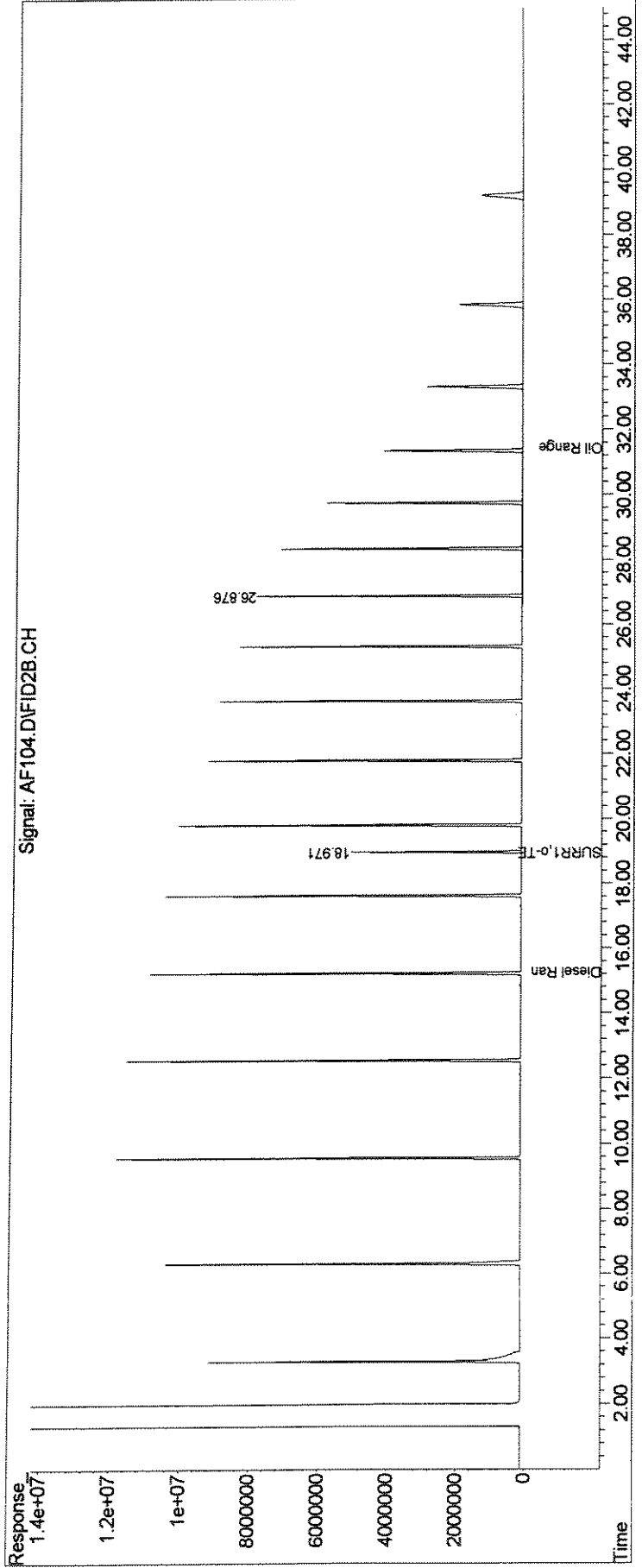
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF104.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 3:00 pm
Operator : G. LaForce
Sample : dro/oro med/high
Misc : calibration 0-559-202-c
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:32:04 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
Quant Update : Fri Jun 13 08:31:24 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



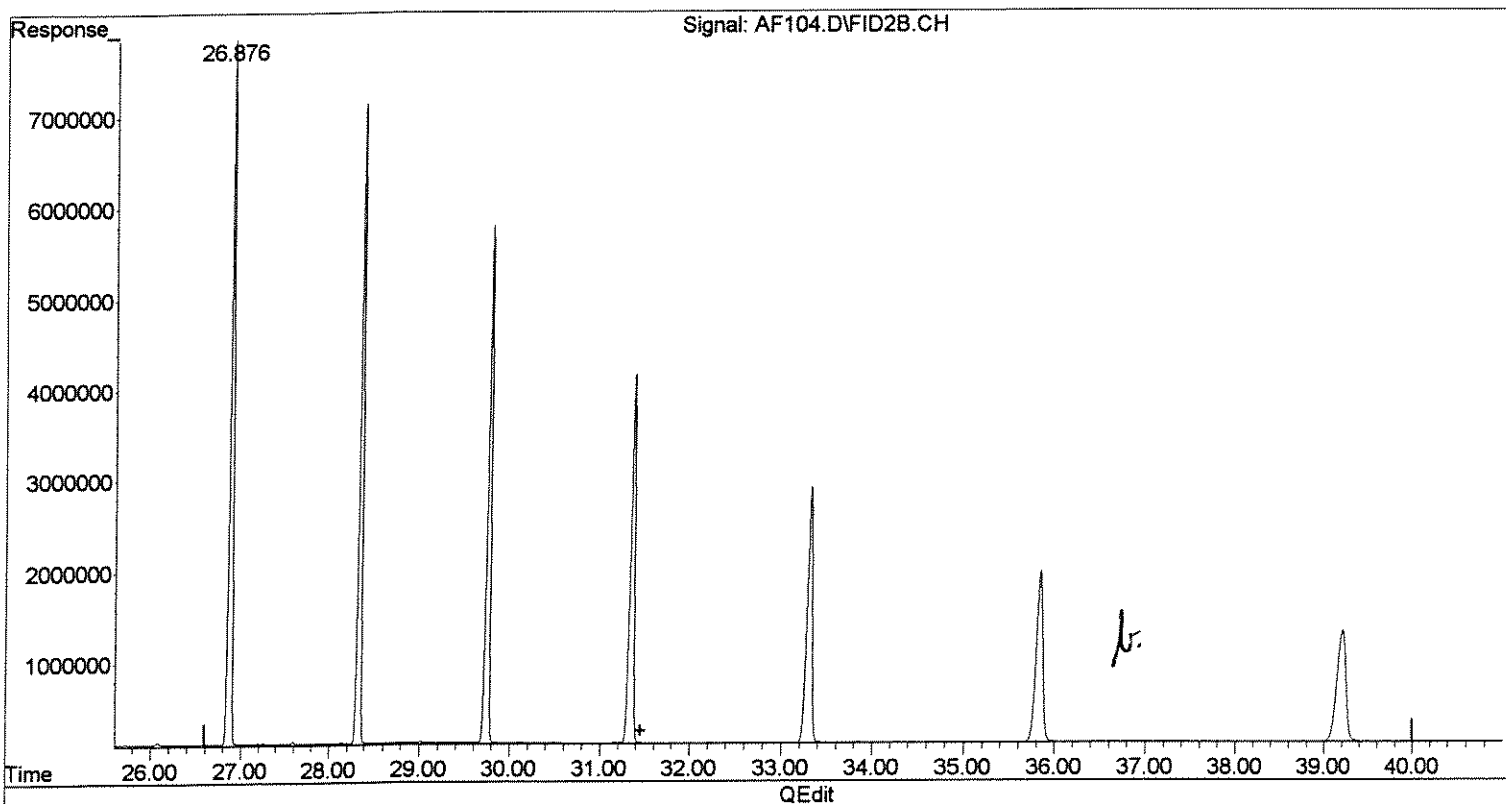
00205

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF104.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 3:00 pm
Operator : G. LaForce
Sample : dro/oro med/high
Misc : calibration 0-559-202-c
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:31:34 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:31:24 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



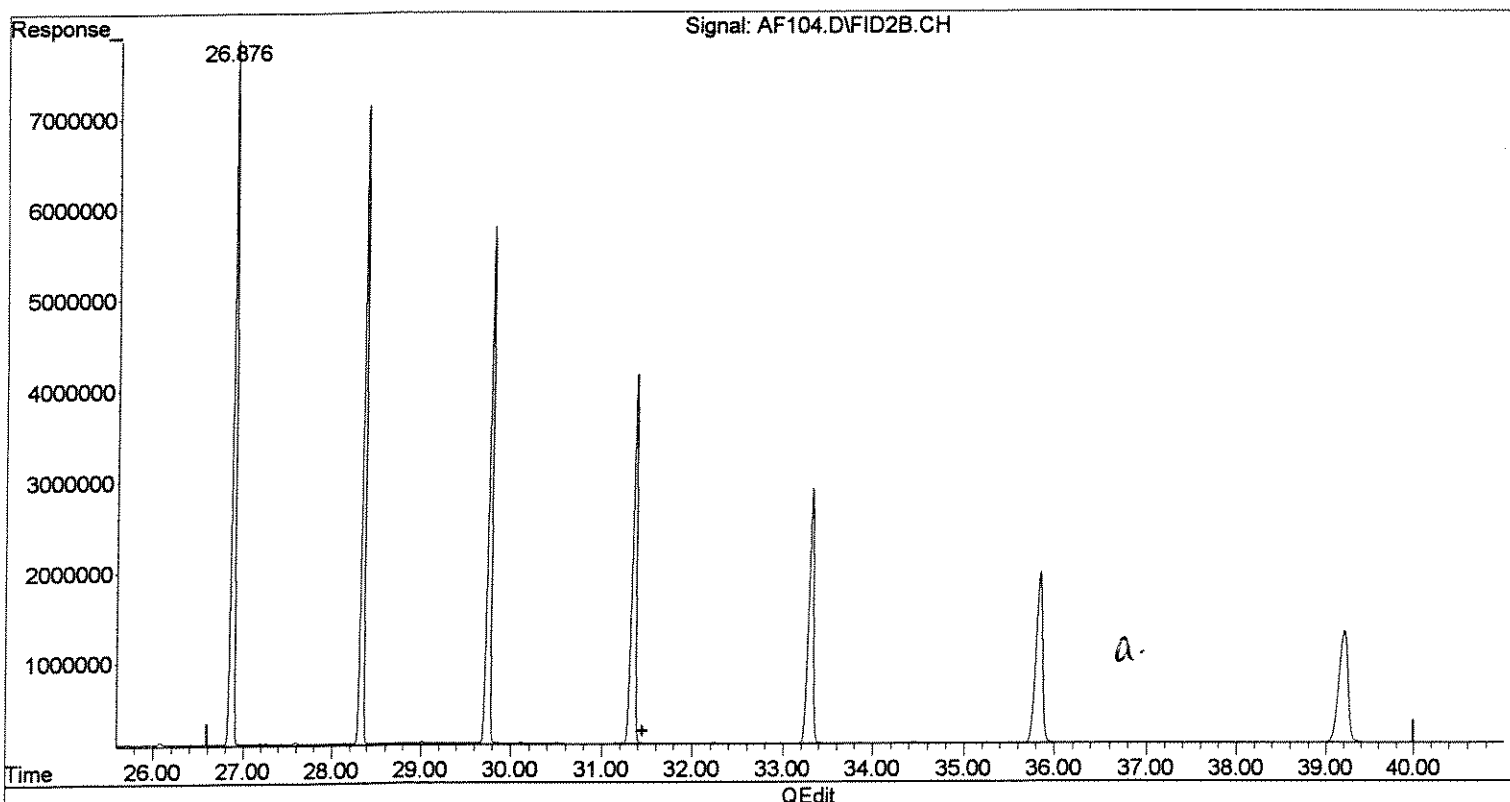
(3) Oil Range Organics (HC)
31.442min 1040.555mg/l m
response 950995276

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF104.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 3:00 pm
Operator : G. LaForce
Sample : dro/oro med/high
Misc : calibration 0-559-202-c
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:31:34 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:31:24 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(3) Oil Range Organics (HC)
31.442min 1038.547mg/l m
response 949159508

Handwritten signatures and initials:
Bacchi
B/L/S
M/L/S

Data Path : J:\ACQUDATA\6890I\DATA\061208\
 Data File : AF105.D
 Signal(s) : FID2B.CH
 Acq On : 12 Jun 2008 3:52 pm
 Operator : G. LaForce
 Sample : dro/oro high
 Misc : calibration 0-559-202-b
 ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 13 08:32:53 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 13 08:32:17 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

06/13

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S SURR1,o-TERPHENYL	18.976	132816160	99.450 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	99.45%
Target Compounds			
2) HC Diesel Range Organics	15.265	5792708428	4891.469 mg/l
3) HC Oil Range Organics	31.442	2831229990	3098.246 mg/l ^M

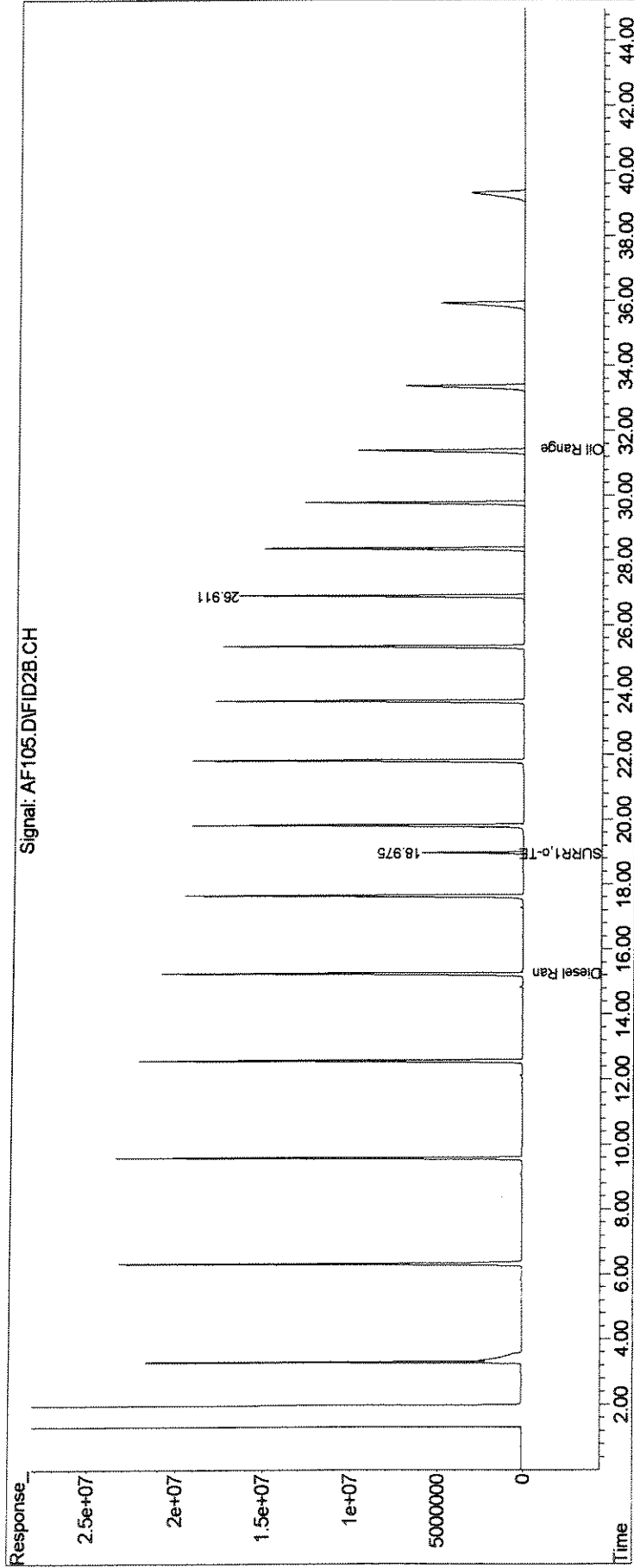
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF105.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 3:52 pm
Operator : G. LaForce
Sample : dro/oro high
Misc : calibration 0-559-202-b
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:32:53 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:32:17 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



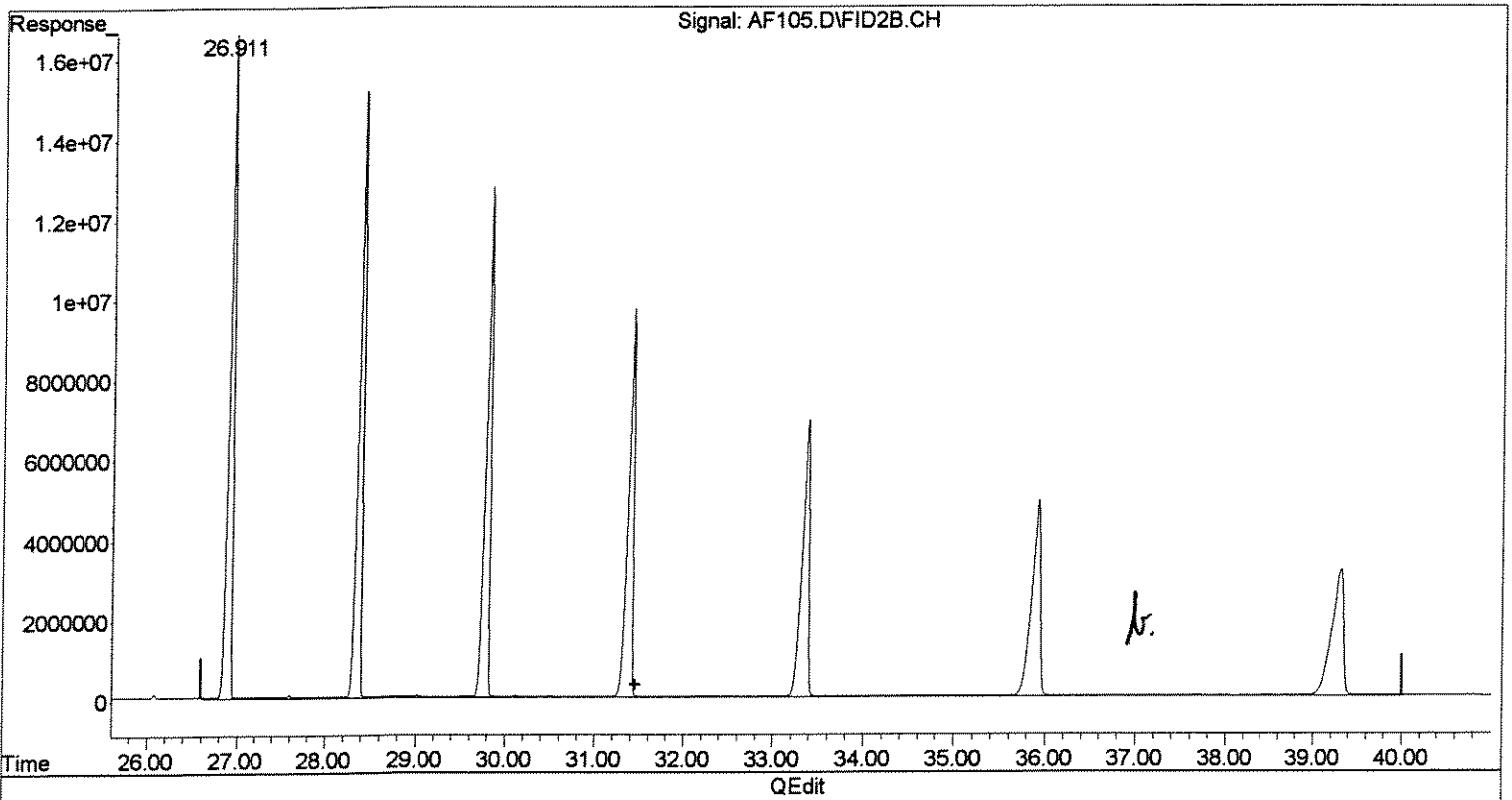
00209

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF105.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 3:52 pm
Operator : G. LaForce
Sample : dro/oro high
Misc : calibration 0-559-202-b
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:32:25 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:32:17 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



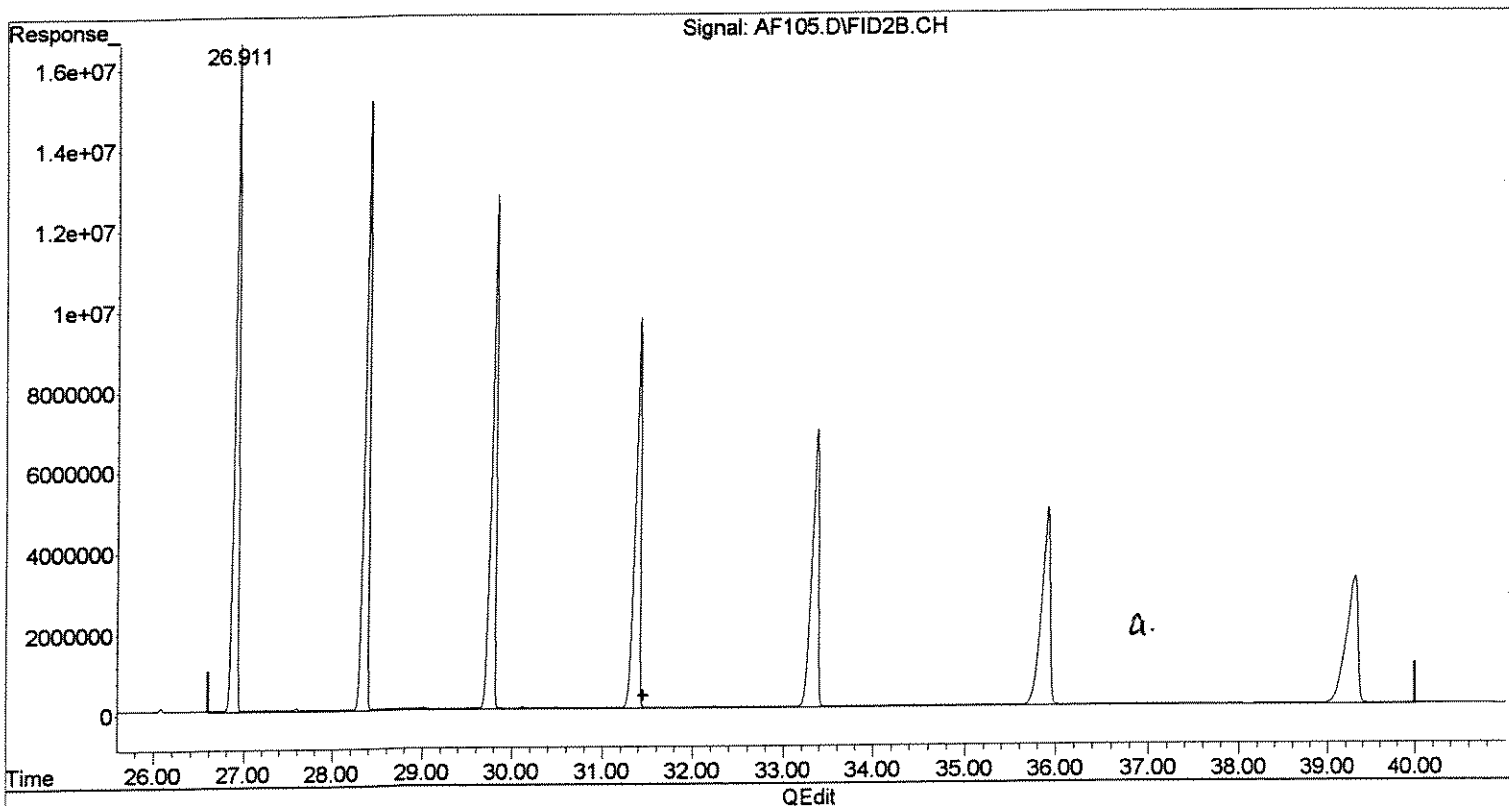
(3) Oil Range Organics (HC)
31.442min 3092.896mg/m
response 2826341260

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\061208\
Data File : AF105.D
Signal(s) : FID2B.CH
Acq On : 12 Jun 2008 3:52 pm
Operator : G. LaForce
Sample : dro/oro high
Misc : calibration 0-559-202-b
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 13 08:32:25 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 13 08:32:17 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(3) Oil Range Organics (HC)
31.442min 3098.246mg/l m
response 2831229990

Handwritten signature
6/13

Handwritten initials
6/13

*Diesel Range Organics
Analytical Sequence*

Lab Name: Columbia Analytical Client: ENSR INTERNATIONAL
 Lab Code: 10145 Case.No.: R2844659 SAS No.: _____ SDG 001
 GC Column(1) ZB-5 (ID):
 Instrument ID: 6890-I

*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>o-Terp rt_time</i>
dro/oro low	dro/oro low	6/12/2008	12:25	18.96
dro/oro med/low	dro/oro med/low	6/12/2008	13:16	18.96
dro/oro med	dro/oro med	6/12/2008	14:08	18.96
dro/oro med/high	dro/oro med/high	6/12/2008	15:00	18.97
dro/oro high	dro/oro high	6/12/2008	15:52	18.98
icv	icv	6/12/2008	16:44	0.00
ccv8	ccv8	6/30/2008	12:31	18.95
PBLK01	1112839 1.0	6/30/2008	13:23	18.95
ZZZZZ	ZZZZZ	6/30/2008	14:15	18.93
PBLK01MS	1112840 1.0	6/30/2008	15:07	18.95
PBLK01MSD	1112841 1.0	6/30/2008	15:59	18.95
001	1112221 1.0	6/30/2008	16:51	18.95
ZZZZZ	ZZZZZ	6/30/2008	17:43	18.95
ZZZZZ	ZZZZZ	6/30/2008	18:35	18.95
ZZZZZ	ZZZZZ	6/30/2008	19:27	18.95
ZZZZZ	ZZZZZ	6/30/2008	20:19	18.95
ZZZZZ	ZZZZZ	6/30/2008	21:10	18.95
ccv9	ccv9	6/30/2008	22:02	18.94

QC Limits

o-Terp = o-Terphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an
* Values outside of QC

Form VIII Pest

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF175.D
 Signal(s) : FID2B.CH
 Acq On : 30 Jun 2008 12:31 pm
 Operator : m.pedro
 Sample : ccv8
 Misc : oro-dro medhigh
 ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 30 13:17:05 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev (Min)
1 S SURR1, o-TERPHENYL	80.000	76.748	4.1	96	-0.02
2 HC Diesel Range Organics	2000.000	1912.001	4.4	100	0.00
3 HC Oil Range Organics	1400.000	1417.952	-1.3	120	0.00

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF175.D
 Signal(s) : FID2B.CH
 Acq On : 30 Jun 2008 12:31 pm
 Operator : m.pedro
 Sample : ccv8
 Misc : oro-dro medhigh
 ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 30 13:17:05 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1,o-TERPHENYL	1.336	1.281 E6	4.1	96	-0.02
2 HC Diesel Range Organics	1.184	1.132 E6	4.4	100	0.00
3 HC Oil Range Organics	914.191	813.855 E3	11.0	120	0.00

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF175.D
 Signal(s) : FID2B.CH
 Acq On : 30 Jun 2008 12:31 pm
 Operator : m.pedro
 Sample : ccv8
 Misc : oro-dro medhigh
 ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 30 13:17:05 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S SURR1,o-TERPHENYL	18.946	102497630	76.748 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	76.75%
Target Compounds			
2) HC Diesel Range Organics	15.265	2264232592	1912.001 mg/l
3) HC Oil Range Organics	31.442	1139397588	1417.952 mg/l

(f)=RT Delta > 1/2 Window

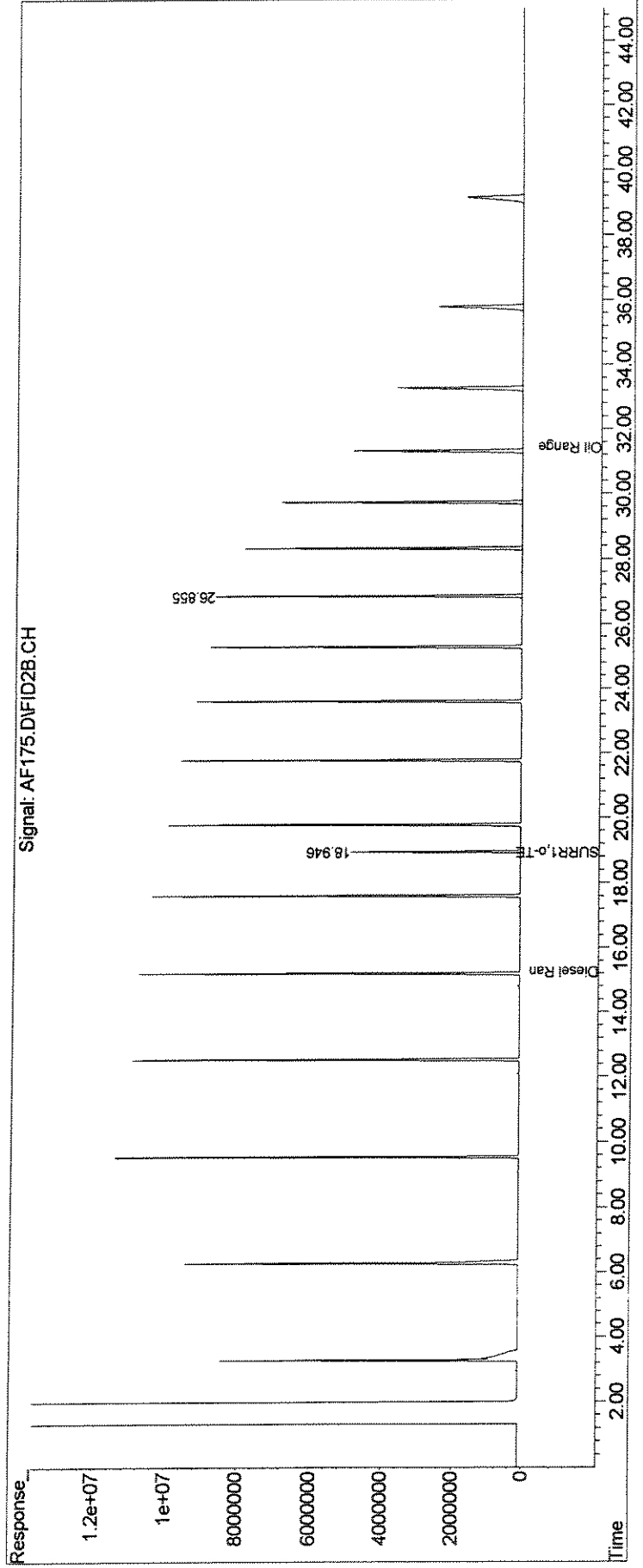
(m)=manual int.

ml
2/1

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF175.D
Signal(s) : FID2B.CH
Acq On : 30 Jun 2008 12:31 pm
Operator : m.pedro
Sample : ccv8
Misc : oro-dro medhigh
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 30 13:17:05 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



00216

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF186.D
 Signal(s) : FID2B.CH
 Acq On : 30 Jun 2008 10:02 pm
 Operator : m.pedro
 Sample : ccv9
 Misc : oro-dro medhigh
 ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jul 01 07:26:56 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S SURR1, o-TERPHENYL	80.000	83.068	-3.8	104	-0.02
2 HC Diesel Range Organics	2000.000	2065.307	-3.3	108	0.00
3 HC Oil Range Organics	1400.000	1598.072	-14.1	135	0.00

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF186.D
 Signal(s) : FID2B.CH
 Acq On : 30 Jun 2008 10:02 pm
 Operator : m.pedro
 Sample : ccv9
 Misc : oro-dro medhigh
 ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jul 01 07:26:56 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1, o-TERPHENYL	1.336	1.387 E6	-3.8	104	-0.02
2 HC Diesel Range Organics	1.184	1.223 E6	-3.3	108	0.00
3 HC Oil Range Organics	914.191	915.253 E3	-0.1	135	0.00

Evaluate Continuing Calibration Report - Not Finds

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF186.D
 Signal(s) : FID2B.CH
 Acq On : 30 Jun 2008 10:02 pm
 Operator : m.pedro
 Sample : ccv9
 Misc : oro-dro medhigh
 ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jul 01 07:26:56 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S SURR1,o-TERPHENYL	18.944	110937847	83.068 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	83.07%
Target Compounds			
2) HC Diesel Range Organics	15.265	2445780346	2065.307 mg/l
3) HC Oil Range Organics	31.442	1281354387	1598.072 mg/l

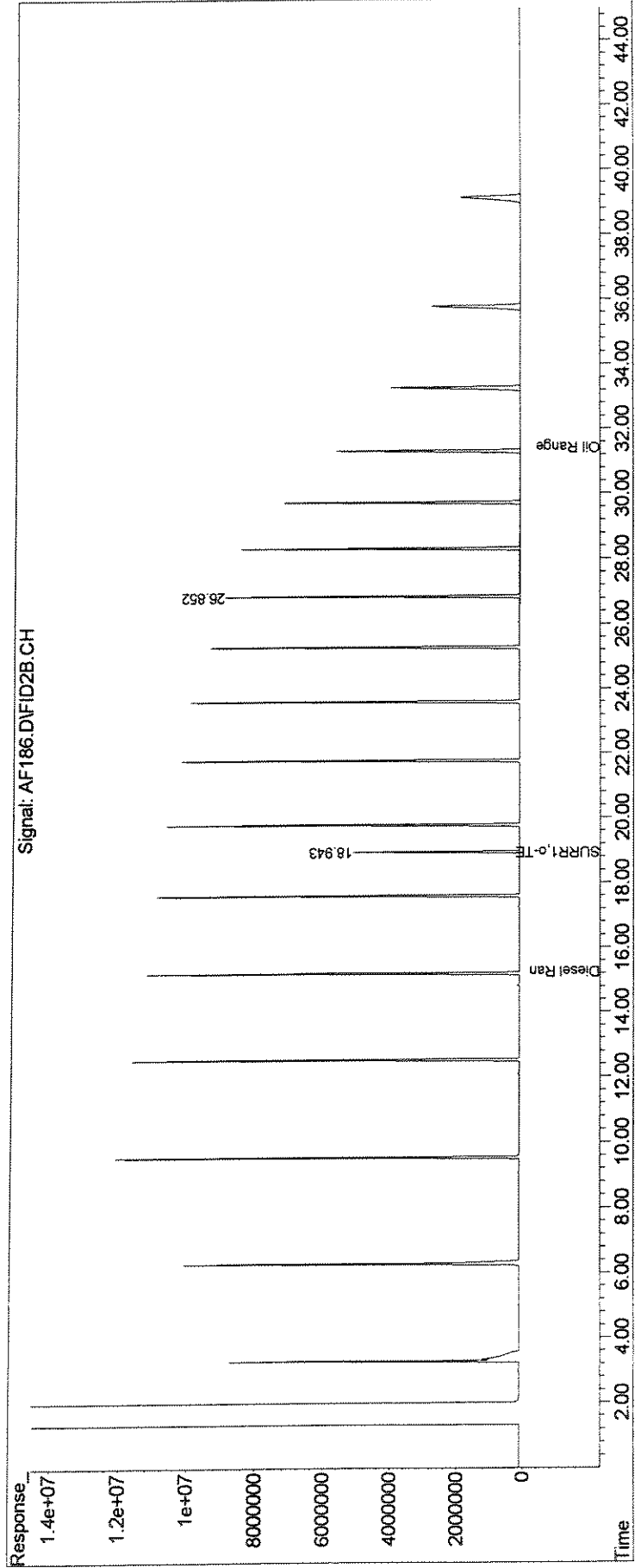
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF186.D
Signal(s) : FID2B.CH
Acq On : 30 Jun 2008 10:02 pm
Operator : m.pedro
Sample : ccv9
Misc : oro-dro medhigh
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 01 07:26:56 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



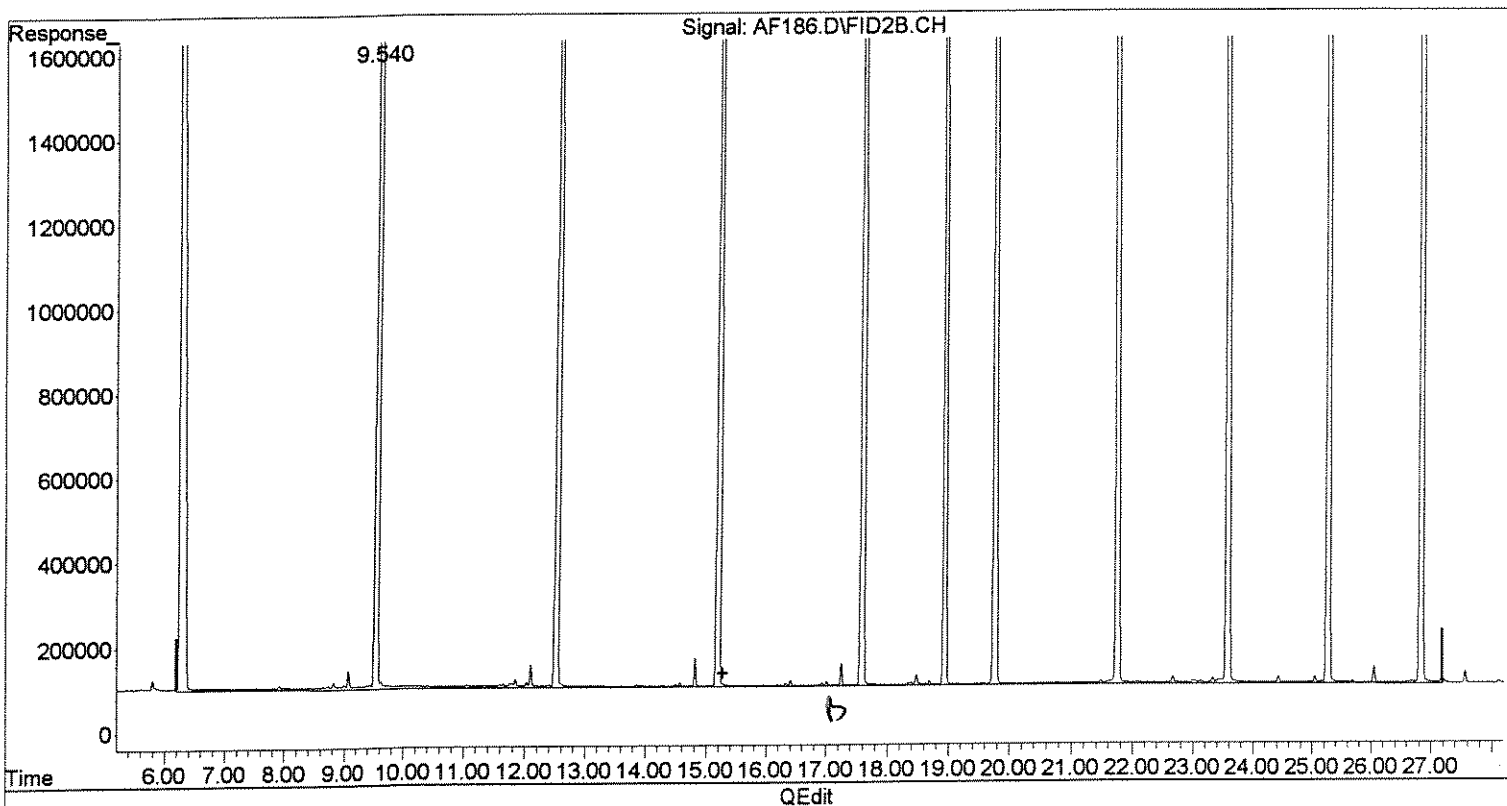
00220

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF186.D
Signal(s) : FID2B.CH
Acq On : 30 Jun 2008 10:02 pm
Operator : m.pedro
Sample : ccv9
Misc : oro-dro medhigh
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 01 06:50:58 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(2) Diesel Range Organics (HC)
15.265min 2072.241mg/l m
response 2453991669

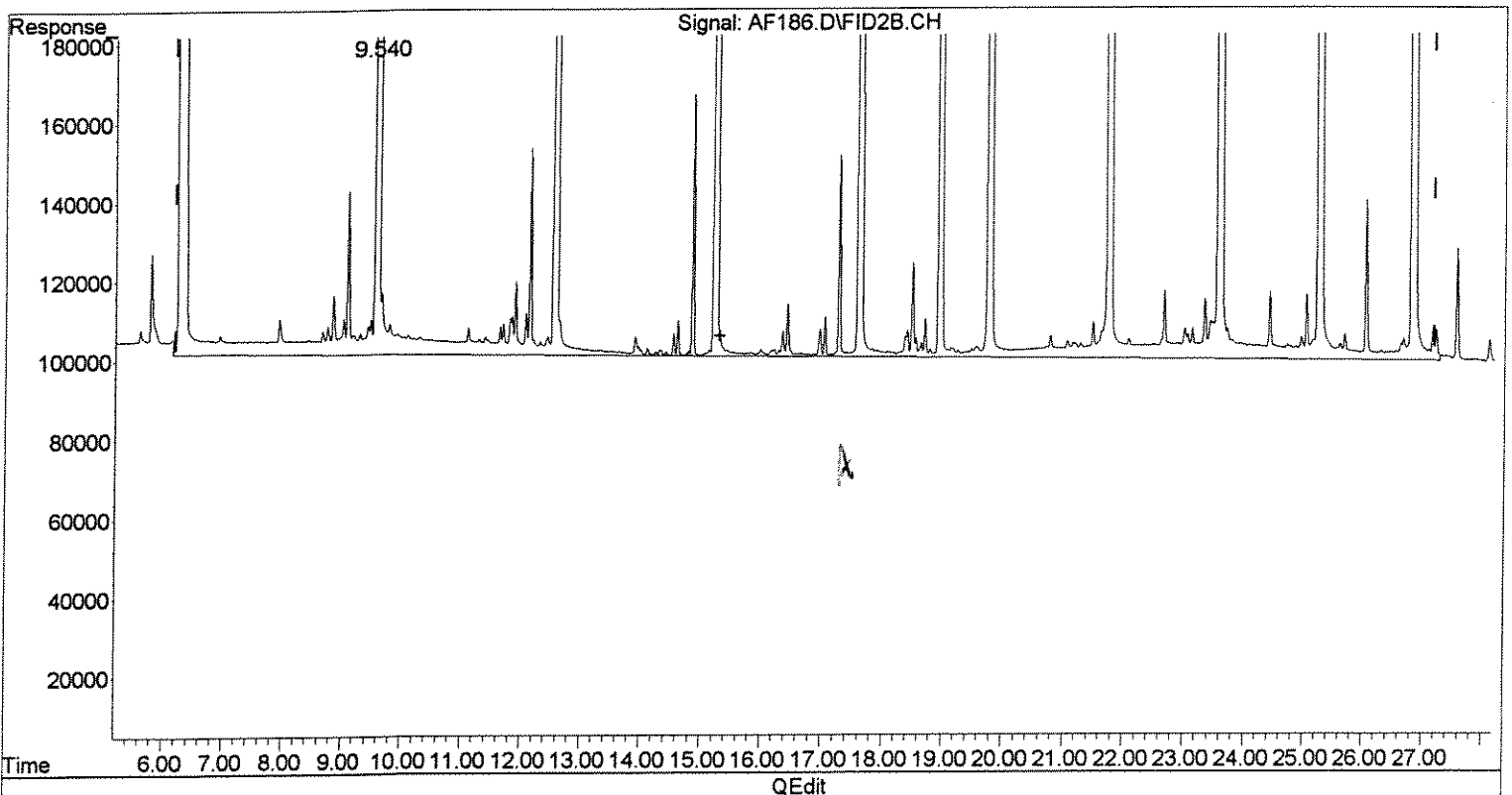
B. J. J.

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF186.D
Signal(s) : FID2B.CH
Acq On : 30 Jun 2008 10:02 pm
Operator : m.pedro
Sample : ccv9
Misc : oro-dro medhigh
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 01 06:50:58 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(2) Diesel Range Organics (HC)
15.265min 2065.307mg/l m
response 2445780346

wp
7/1

mw
7/1

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF195.D
 Signal(s) : FID2B.CH
 Acq On : 01 Jul 2008 5:46 am
 Operator : m.pedro
 Sample : ccv9
 Misc : oro-dro medhigh
 ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jul 01 07:32:24 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev (Min)
1 S SURR1,o-TERPHENYL	80.000	88.338	-10.4	111	-0.02
2 HC Diesel Range Organics	2000.000	2203.293	-10.2	116	0.00
3 HC Oil Range Organics	1400.000	1752.668	-25.2#	148	0.00

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF195.D
 Signal(s) : FID2B.CH
 Acq On : 01 Jul 2008 5:46 am
 Operator : m.pedro
 Sample : ccv9
 Misc : oro-dro medhigh
 ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jul 01 07:32:24 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S SURR1,o-TERPHENYL	1.336	1.475 E6	-10.4	111	-0.02
2 HC Diesel Range Organics	1.184	1.305 E6	-10.2	116	0.00
3 HC Oil Range Organics	914.191	1002.283 E3	-9.6	148	0.00

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF195.D
 Signal(s) : FID2B.CH
 Acq On : 01 Jul 2008 5:46 am
 Operator : m.pedro
 Sample : ccv9
 Misc : oro-dro medhigh
 ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jul 01 07:32:24 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S SURR1,o-TERPHENYL	18.942	117975958	88.338 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	88.34%
Target Compounds			
2) HC Diesel Range Organics	15.265	2609187126	2203.293 mg/l
3) HC Oil Range Organics	31.442	1403195758	1752.668 mg/l

mp
7/1

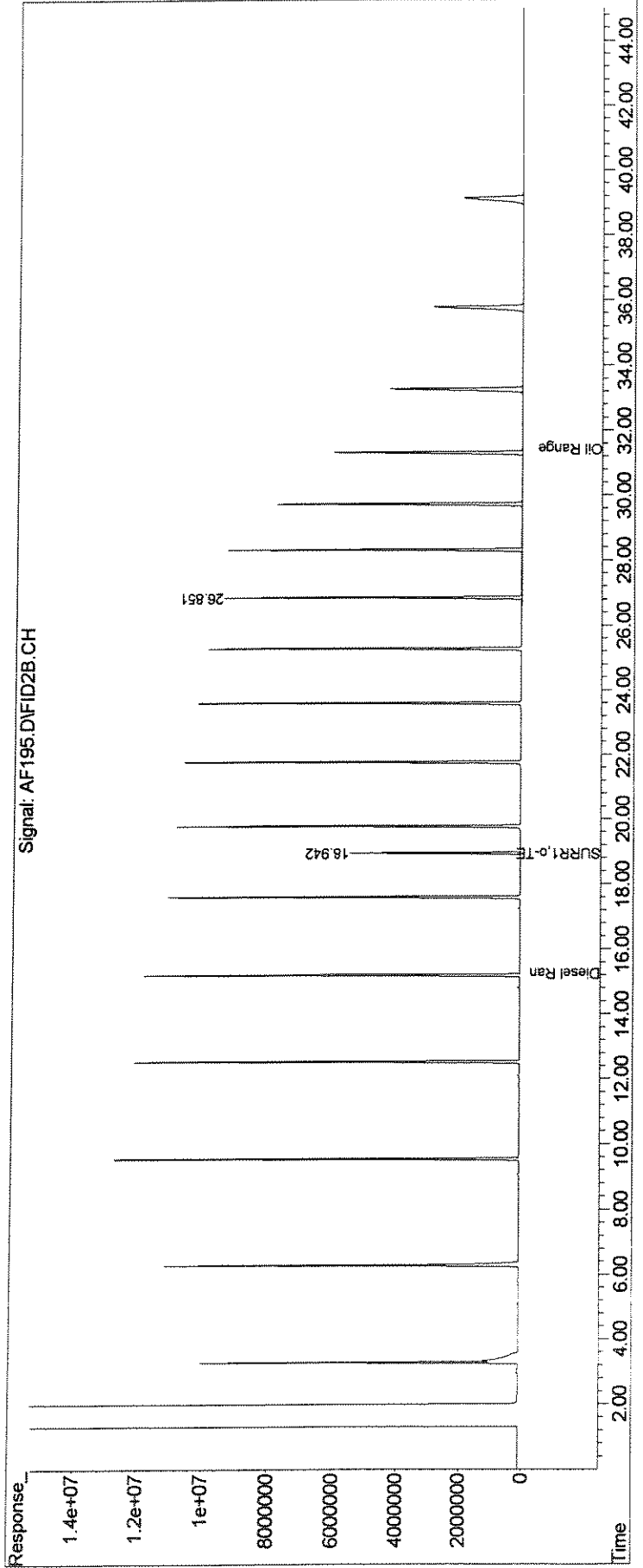
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF195.D
Signal(s) : FID2B.CH
Acq On : 01 Jul 2008 5:46 am
Operator : m.pedro
Sample : ccv9
Misc : oro-dro medhigh
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 01 07:32:24 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



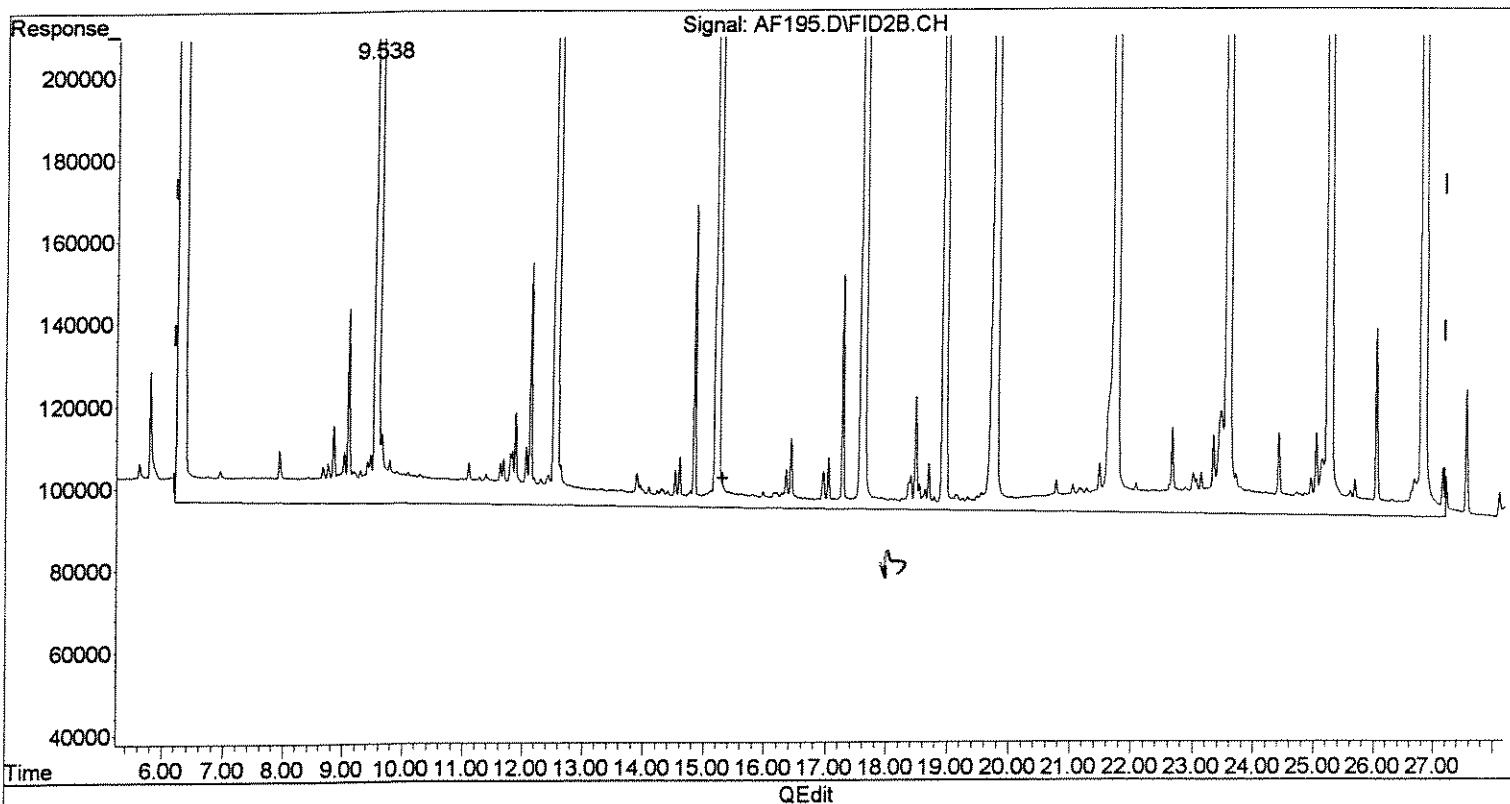
00225

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF195.D
Signal(s) : FID2B.CH
Acq On : 01 Jul 2008 5:46 am
Operator : m.pedro
Sample : ccv9
Misc : oro-dro medhigh
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 01 06:51:16 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(2) Diesel Range Organics (HC)
15.265min 2223.356mg/l m
response 2632945221

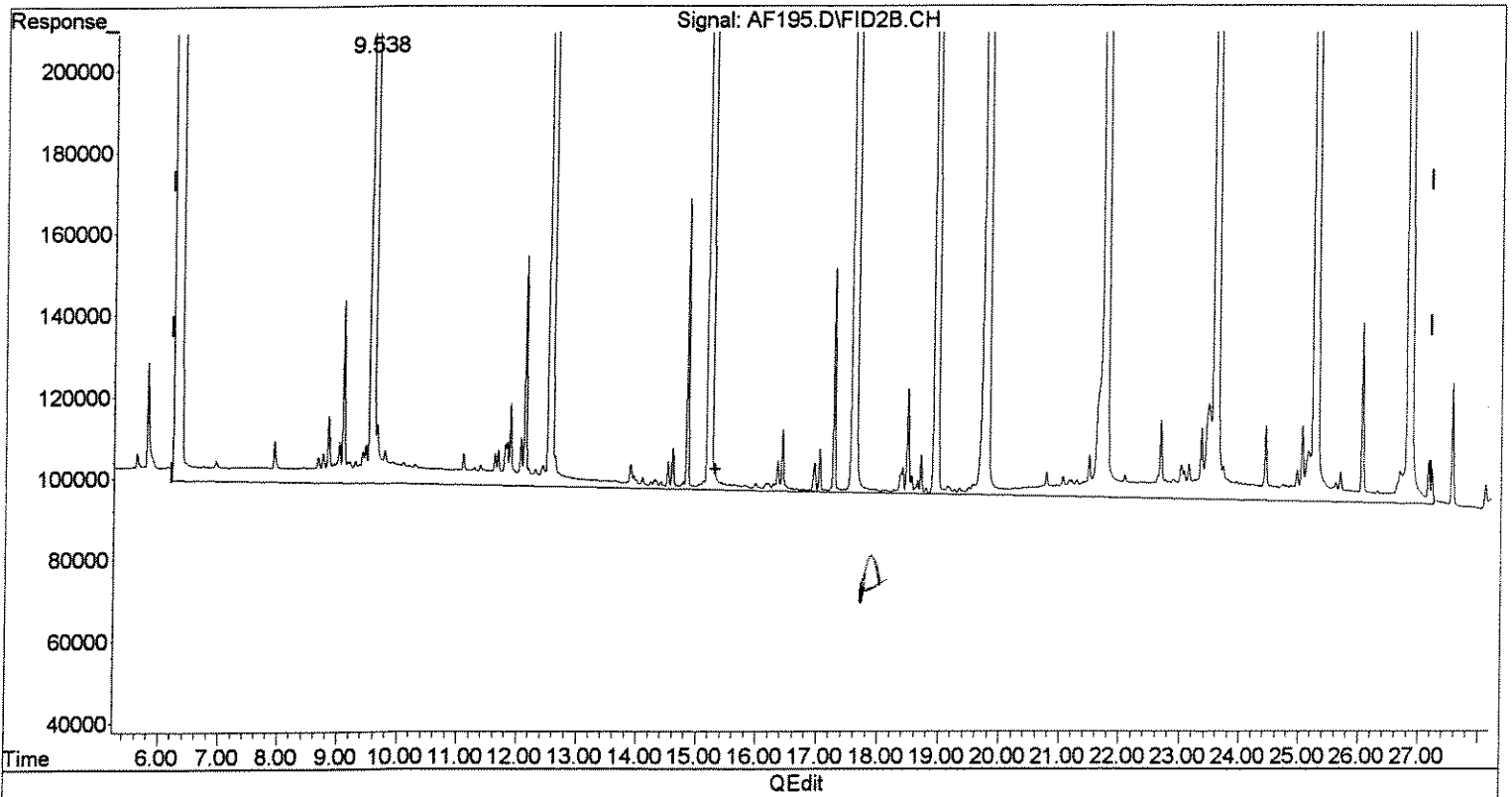
Base

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF195.D
Signal(s) : FID2B.CH
Acq On : 01 Jul 2008 5:46 am
Operator : m.pedro
Sample : ccv9
Misc : oro-dro medhigh
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 01 06:51:16 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(2) Diesel Range Organics (HC)
15.265min 2203.293mg/m
response 2609187126

mp
7/1

mp
7/1

DIESEL/OIL RANGE ORGANICS

RAW QC DATA

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B DIESEL/OIL RANGE
Reported: 07/18/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 1112839	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
DIESEL RANGE ORGANICS	40000	40000 U	UG/KG
OIL RANGE ORGANICS	40000	40000 U	UG/KG
<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
O-TERPHENYL	(68 - 138 %)	82	%

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF176.D
 Signal(s) : FID2B.CH
 Acq On : 30 Jun 2008 1:23 pm
 Operator : m.pedro
 Sample : blk 1.0 *11/2839*
 Misc : 06/27/08 2.5 8015b.oro blk
 ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jun 30 14:08:55 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S SURR1,o-TERPHENYL	18.947	109761169	82.187 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	82.19%
Target Compounds			
2) HC Diesel Range Organics	15.265	57213745	48.313 mg/l
3) HC Oil Range Organics	31.442	23541221	2.117 mg/l

*MP
6/3*

(f)=RT Delta > 1/2 Window

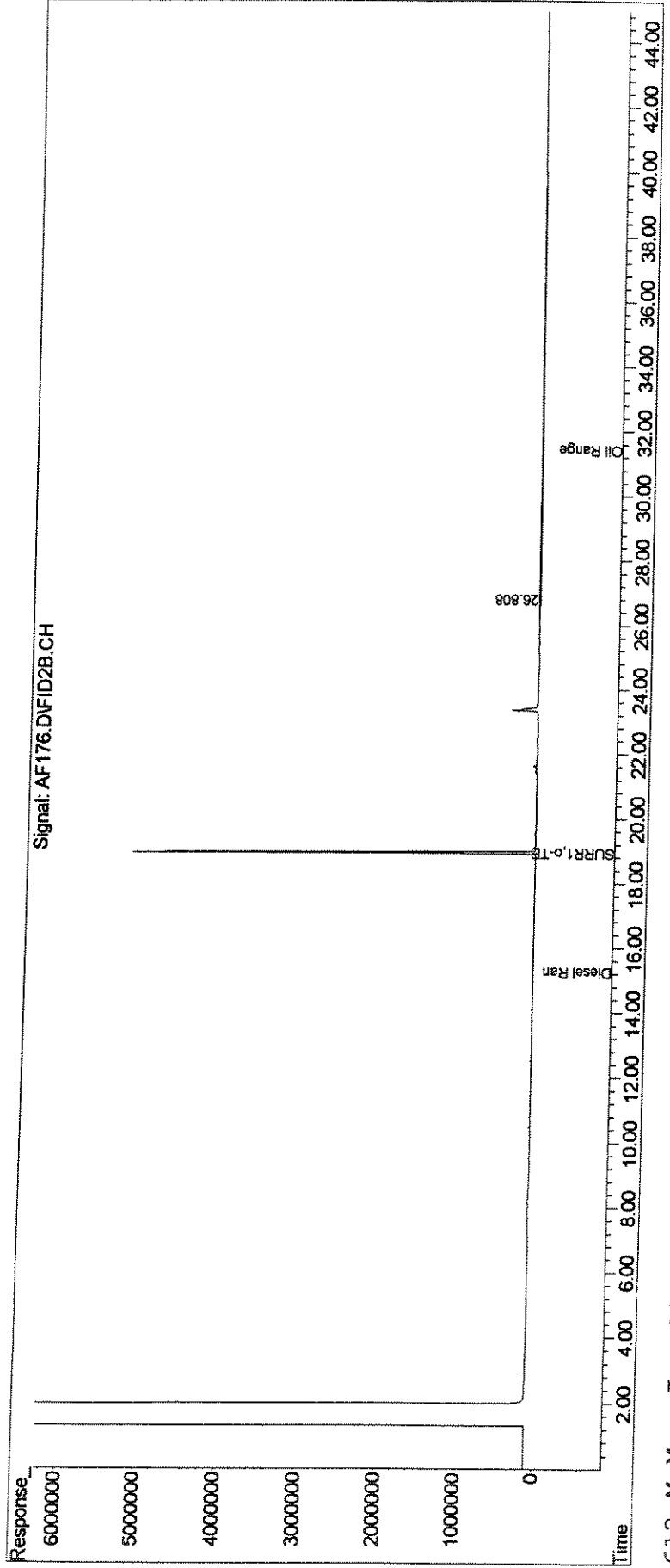
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF176.D
Signal(s) : FID2B.CH
Acq On : 30 Jun 2008 1:23 pm
Operator : m.pedro
Sample : blk 1.0
Misc : 06/27/08 2.5 8015b.oro blk
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 30 14:08:55 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



00232

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B DIESEL/OIL RANGE
Reported: 07/18/08

Project Reference:
Client Sample ID : BLANK SPIKE

Date Sampled :	Order #: 1112840	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
DIESEL RANGE ORGANICS	40000	360000	UG/KG
<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
O-TERPHENYL	(68 - 138 %)	94	%

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF178.D
 Signal(s) : FID2B.CH
 Acq On : 30 Jun 2008 3:07 pm
 Operator : m.pedro
 Sample : lcs 1.0 *112840*
 Misc : 06/27/08 2.5 8015b.oro lcs
 ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jul 01 07:21:46 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

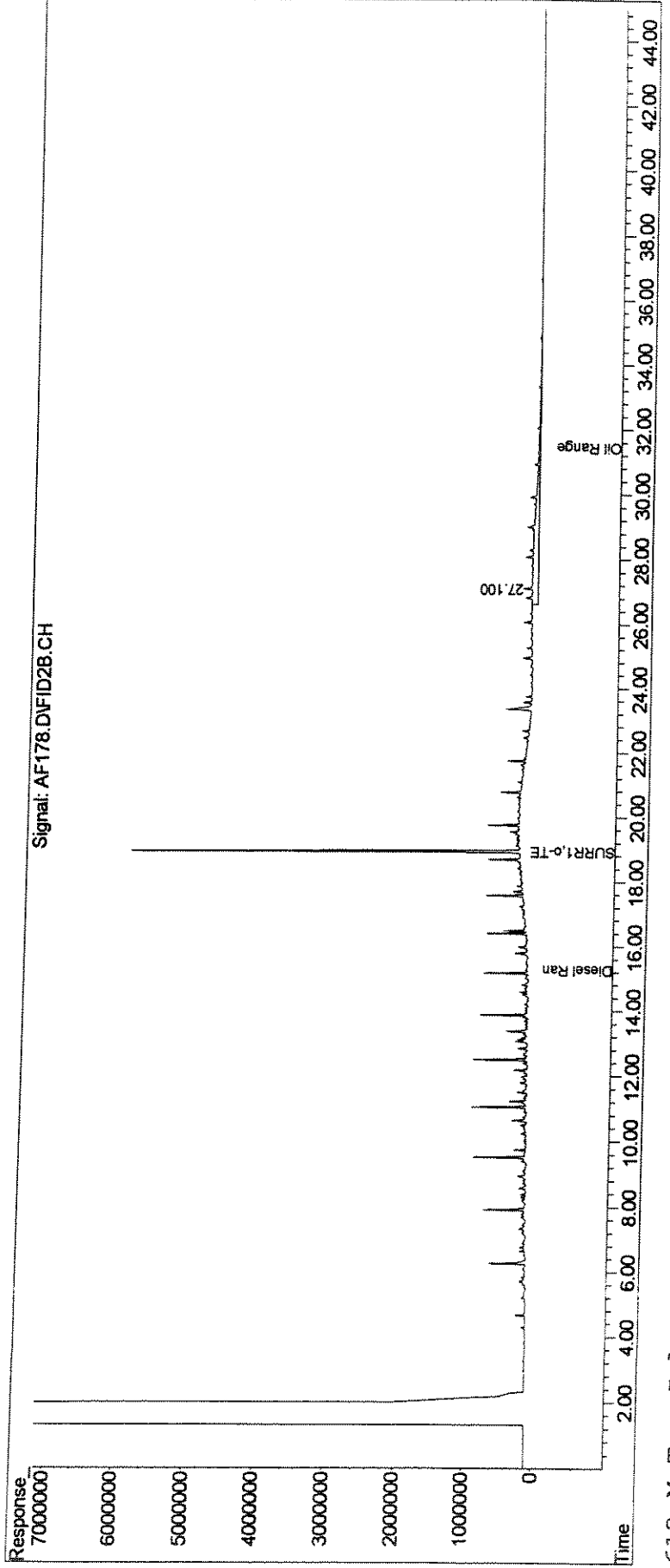
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S SURR1,o-TERPHENYL	18.950	125768117	94.173 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	94.17%
Target Compounds			
2) HC Diesel Range Organics	15.265	1055512228	891.313 mg/l <i>IM</i>
3) HC Oil Range Organics	31.442	219313708	250.519 mg/l

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF178.D
Signal(s) : FID2B.CH
Acq On : 30 Jun 2008 3:07 pm
Operator : m.pedro
Sample : lcs 1.0
Misc : 06/27/08 2.5 8015b.oro lcs
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 01 07:21:46 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped
Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



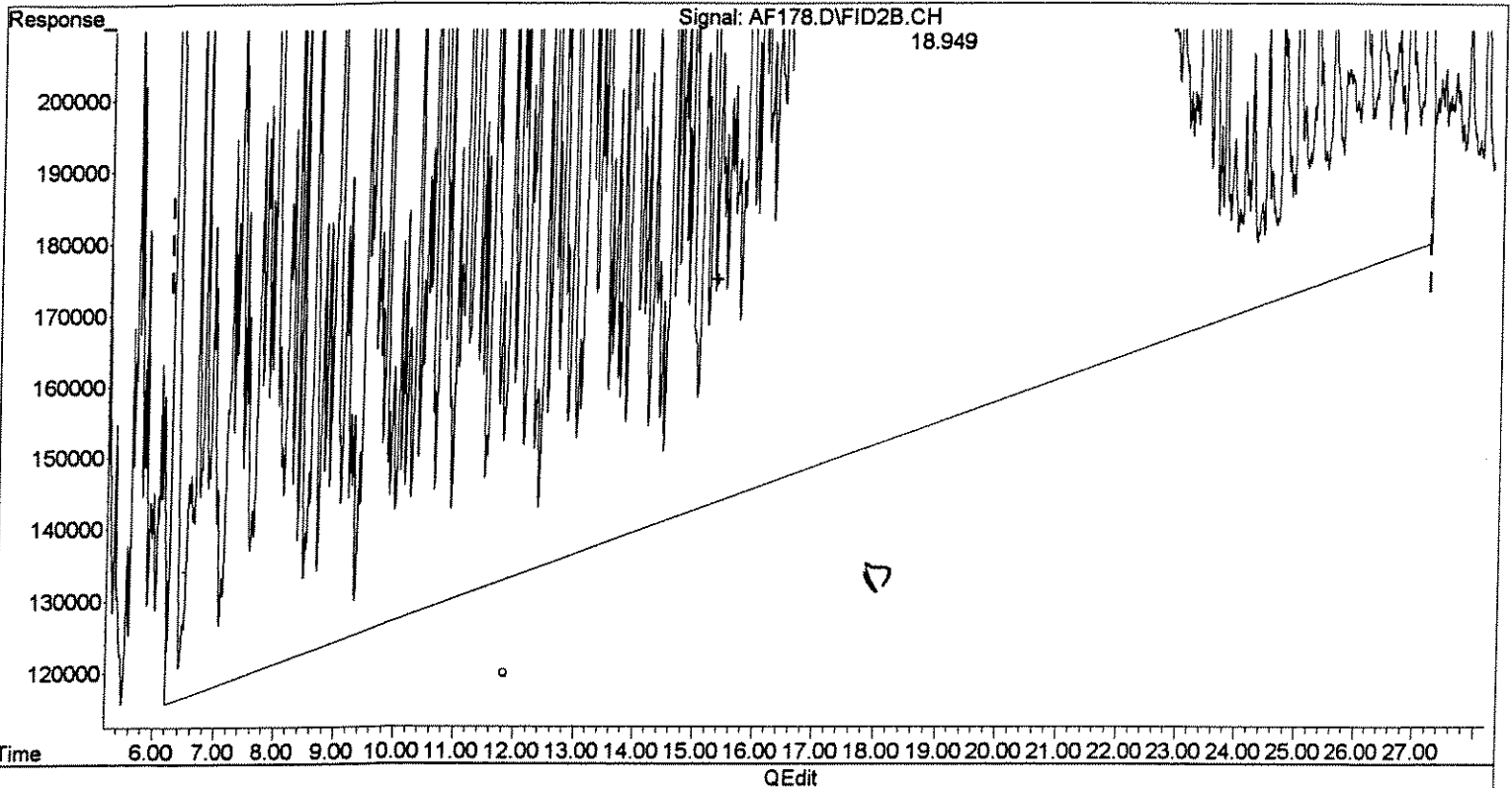
00235

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF178.D
Signal(s) : FID2B.CH
Acq On : 30 Jun 2008 3:07 pm
Operator : m.pedro
Sample : lcs 1.0
Misc : 06/27/08 2.5 8015b.oro lcs
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 01 06:50:42 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(2) Diesel Range Organics (HC)
15.265min 931.052mg/m
response 1102571871

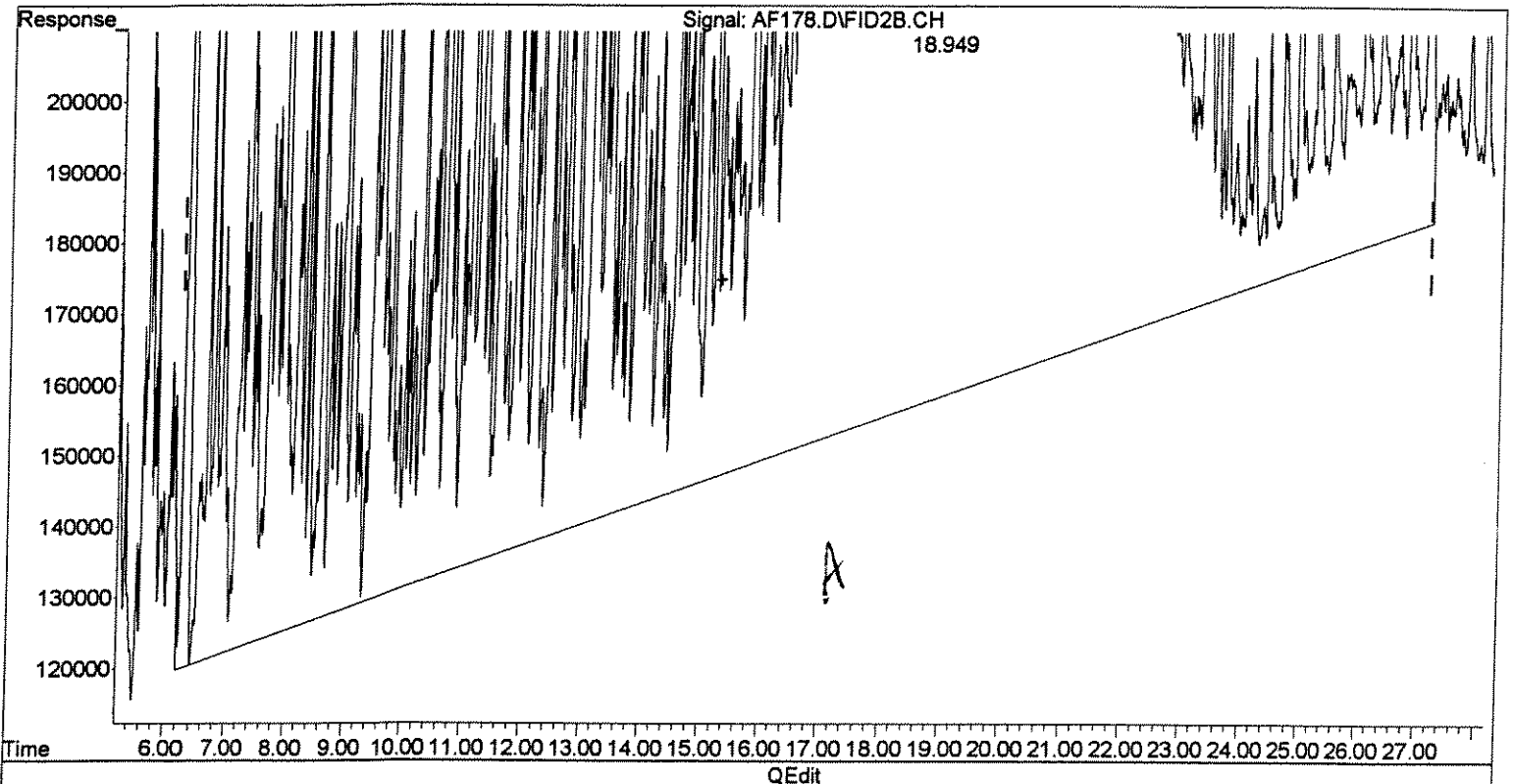
base

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF178.D
Signal(s) : FID2B.CH
Acq On : 30 Jun 2008 3:07 pm
Operator : m.pedro
Sample : lcs 1.0
Misc : 06/27/08 2.5 8015b.oro lcs
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 01 06:50:42 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



(2) Diesel Range Organics (HC)
15.265min 891.313mg/l m
response 1055512228

mp
mp

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF178.D
 Signal(s) : FID2B.CH
 Acq On : 30 Jun 2008 3:07 pm
 Operator : m.pedro
 Sample : lcs 1.0
 Misc : 06/27/08 2.5 8015b.oro lcs
 ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jul 01 06:50:42 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S SURR1, o-TERPHENYL	18.950	125768117	94.173 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	94.17%
Target Compounds			
2) HC Diesel Range Organics	15.265	1102571871	931.052 mg/l
3) HC Oil Range Organics	31.442	219313708	250.519 mg/l

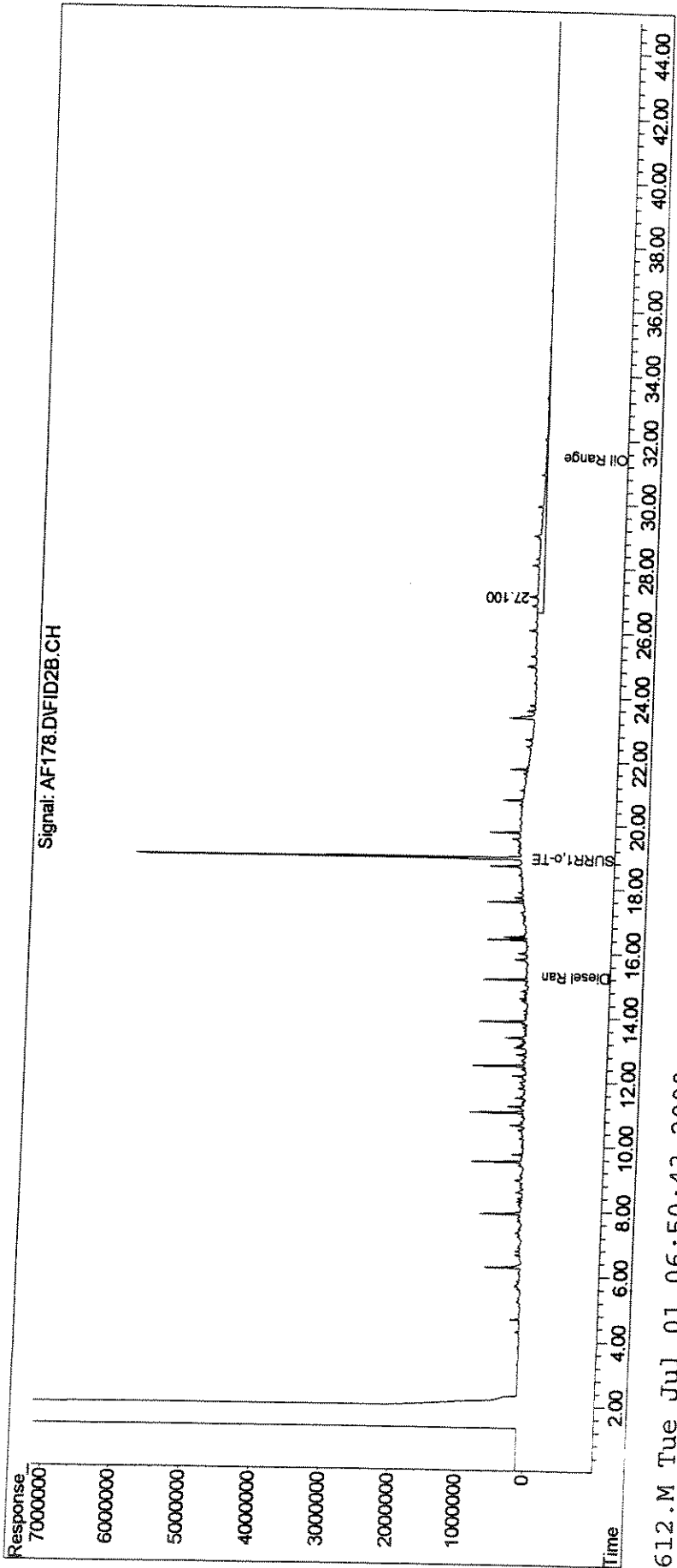
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : J:\ACQUDATA\6890I\DATA\063008\
Data File : AF178.D
Signal(s) : FID2B.CH
Acq On : 30 Jun 2008 3:07 pm
Operator : m.pedro
Sample : lcs 1.0
Misc : 06/27/08 2.5 8015b.oro lcs
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jul 01 06:50:42 2008
Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
Quant Title : EPA Method 8015B Deisel and Oil Range Organics
QLast Update : Fri Jun 27 08:48:15 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal Phase : Phenomenex ZB-5
Signal Info : 30m x .32mm x 0.50um



00239

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B DIESEL/OIL RANGE
Reported: 07/18/08

Project Reference:
Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : Order #: 1112841 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/27/08			
DATE ANALYZED : 06/30/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
DIESEL RANGE ORGANICS	40000	200000	UG/KG
<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
O-TERPHENYL	(68 - 138 %)	89	%

Data Path : J:\ACQUDATA\6890I\DATA\063008\
 Data File : AF179.D
 Signal(s) : FID2B.CH
 Acq On : 30 Jun 2008 3:59 pm
 Operator : m.pedro
 Sample : lcsd 1.0 //12841
 Misc : 06/27/08 2.5 8015b.oro lcsd
 ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jul 01 06:50:44 2008
 Quant Method : J:\ACQUDATA\6890I\methods\ORO0612.M
 Quant Title : EPA Method 8015B Deisel and Oil Range Organics
 QLast Update : Fri Jun 27 08:48:15 2008
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
 Signal Phase : Phenomenex ZB-5
 Signal Info : 30m x .32mm x 0.50um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S SURR1,o-TERPHENYL	18.948	118805714	88.960 mg/l
Spiked Amount 100.000	Range 56 - 128	Recovery =	88.96%
Target Compounds			
2) HC Diesel Range Organics	15.265	605089289	510.960 mg/l
3) HC Oil Range Organics	31.442	29894978	10.178 mg/l

MJ
6/30

(f)=RT Delta > 1/2 Window

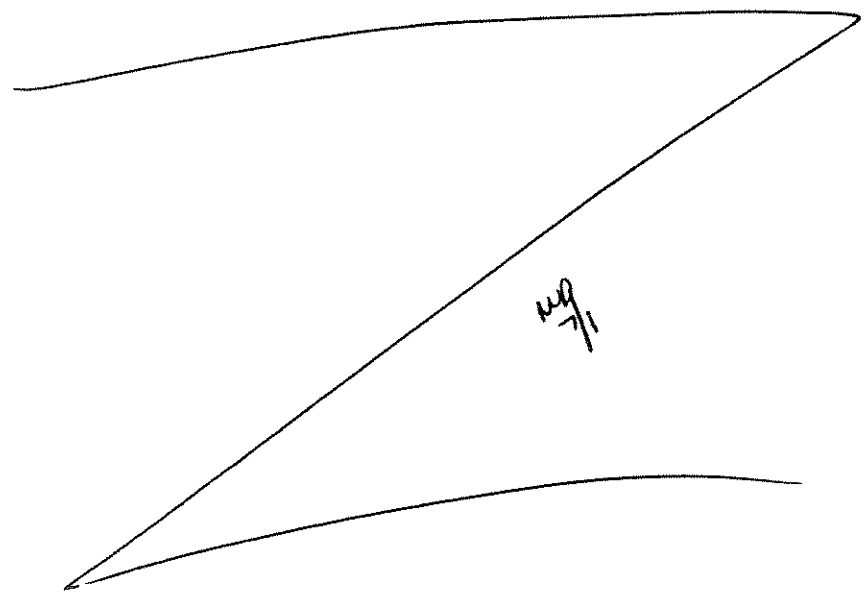
(m)=manual int.

6/30/09

8015 DR0-0R0 W890I

Mgr. Poo

MeClz	OR00012.m	AF	174 y
CCW8 0-559 202C			175 yC
BIK 1.0 6/27			176 y
1113110 10. [redacted] R. 44744			177 y
LCS 1.0 4/27			178 ↑
LCSD 1.0			179 y
1112221 1.0 [redacted] R. 44059			180 y
1112301 1.0			181 y
1112302 1.0			182 y
1112837 MS 1.0			183 y
1112838 MSD 1.0			184 y
1112303 1.0			185 y
CCW9 0-559-202C			186 yC
1112304 1.0 [redacted] R. 44059			187 y
1112305 1.0			188 y
1113594 BIK 1.0 [redacted] R. 44053			189 yWB
1113595 LCS 1.0			190 y
1112074 1.0			191 y
1112076 1.0			192 y
1113590 MS 1.0			193 surv + 55%
1113597 MSP 1.0			194 y Q
CCW10 0-559-202C			195 yC



020715% NW

METALS DATA

METALS
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Contract: R2844659 SDG No.: 001

Lab Code: _____ Case No.: _____ SAS No.: _____

SOW No.: SW846 CLP-M Client: ENSR International

<u>Sample No.</u>	<u>Lab Sample ID.</u>
<u>001</u>	<u>1112220</u>
<u>001D</u>	<u>1112220D</u>
<u>001S</u>	<u>1112220S</u>

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: See Attached Case Narrative

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 conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: Michael E. Perry

Date: 7/29/88

Title: Laboratory Manager

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

001

Contract: R2844659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 001

Matrix (soil/water): TCLP Lab Sample ID: 1112220

Level (low/med): LOW Date Received: 06/25/08

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	500	U		P
7440-39-3	Barium	1000	U		P
7440-43-9	Cadmium	244			P
7440-47-3	Chromium	426			P
7439-92-1	Lead	123			P
7439-97-6	Mercury	0.20	U		CV
7782-49-2	Selenium	597			P
7440-22-4	Silver	193			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:
 Color After: COLORLESS Clarity After: CLEAR Artifacts:
 Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

Initial Calibration Source: PE PURE

Continuing Calibration Source: PE PURE

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Arsenic	1000.0	1021.69	102.2	1000.0	999.90	100.0	1043.11	104.3	P
Barium	10000.0	10193.08	101.9	10000.0	10082.40	100.8	10267.71	102.7	P
Cadmium	500.0	504.39	100.9	500.0	498.88	99.8	511.55	102.3	P
Chromium	500.0	509.48	101.9	500.0	506.24	101.2	515.40	103.1	P
Lead	500.0	525.04	105.0	500.0	514.68	102.9	532.33	106.5	P
Mercury	3.0	3.08	102.7	3.0	3.08	102.7	3.09	103.0	CV
Selenium	500.0	504.73	100.9	500.0	494.85	99.0	517.79	103.6	P
Silver	500.0	508.74	101.7	500.0	505.55	101.1	511.19	102.2	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

Initial Calibration Source:

Continuing Calibration Source: PE PURE

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Arsenic				1000.0	1040.05	104.0	1046.88	104.7	P
Barium				10000.0	10302.20	103.0	10310.22	103.1	P
Cadmium				500.0	511.69	102.3	515.45	103.1	P
Chromium				500.0	513.60	102.7	519.31	103.9	P
Lead				500.0	530.43	106.1	535.17	107.0	P
Selenium				500.0	517.21	103.4	519.38	103.9	P
Silver				500.0	508.18	101.6	514.65	102.9	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

Initial Calibration Source:

Continuing Calibration Source: PE PURE

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Arsenic				1000.0	1052.43	105.2	1046.69	104.7	P
Barium				10000.0	10322.26	103.2	10332.15	103.3	P
Cadmium				500.0	520.67	104.1	513.98	102.8	P
Chromium				500.0	524.82	105.0	518.05	103.6	P
Lead				500.0	536.72	107.3	534.07	106.8	P
Selenium				500.0	522.61	104.5	517.49	103.5	P
Silver				500.0	521.55	104.3	516.09	103.2	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R2844659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 001

Initial Calibration Source:

Continuing Calibration Source: PE PURE

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Arsenic				1000.0	1059.25	105.9			P
Barium				10000.0	10344.07	103.4			P
Cadmium				500.0	519.51	103.9			P
Chromium				500.0	522.40	104.5			P
Lead				500.0	540.56	108.1			P
Selenium				500.0	523.30	104.7			P
Silver				500.0	517.97	103.6			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

METALS

-2B-

CRDL STANDARD FOR AA AND ICP

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG No.: 001

AA CRDL Standard Source:

ICP CRDL Standard Source: CPI

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial			Final	
				True	Found	%R	Found	%R
Arsenic				20.0	20.66	103.3	21.75	108.8
Barium				200.0	212.33	106.2	212.96	106.5
Cadmium				10.0	10.13	101.3	10.35	103.5
Chromium				10.0	10.05	100.5	10.23	102.3
Lead				10.0	10.17	101.7	10.26	102.6
Mercury	0.2	0.18	90.0					
Selenium				10.0	12.37	123.7	11.43	114.3
Silver				10.0	10.34	103.4	10.92	109.2

METALS
-2B-

CRDL STANDARD FOR AA AND ICP

Contract: R2844659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 001

AA CRDL Standard Source:

ICP CRDL Standard Source: CPI

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial			Final	
				True	Found	%R	Found	%R
Arsenic				20.0			21.56	107.8
Barium				200.0			213.53	106.8
Cadmium				10.0			10.56	105.6
Chromium				10.0			10.12	101.2
Lead				10.0			10.12	101.2
Selenium				10.0			13.44	134.4
Silver				10.0			11.47	114.7

METALS
-2B-

CRDL STANDARD FOR AA AND ICP

Contract: R2844659

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: 001

AA CRDL Standard Source: CPI

ICP CRDL Standard Source: CPI

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial			Final	
				True	Found	%R	Found	%R
Mercury	0.2	0.18	90.0					

METALS

-3-

BLANKS

Contract: R2844659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Arsenic	500.0	U	500.0	U	500.0	U	500.0	U	500.000	U	P
Barium	1000.0	U	1000.0	U	1000.0	U	1000.0	U	1000.000	U	P
Cadmium	100.0	U	100.0	U	100.0	U	100.0	U	100.000	U	P
Chromium	100.0	U	100.0	U	100.0	U	100.0	U	100.000	U	P
Lead	100.0	U	100.0	U	100.0	U	100.0	U	100.000	U	P
Mercury	0.20	U	0.20	U	0.20	U			0.200	U	CV
Selenium	500.0	U	500.0	U	500.0	U	500.0	U	500.000	U	P
Silver	100.0	U	100.0	U	100.0	U	100.0	U	100.000	U	P

METALS

-3-

BLANKS

Contract: R2844659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 001 _____

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank		M
			1	C	2	C	3	C	C		
Arsenic			500.0	U	500.0	U	500.0	U			P
Barium			1000.0	U	1000.0	U	1000.0	U			P
Cadmium			100.0	U	100.0	U	100.0	U			P
Chromium			100.0	U	100.0	U	100.0	U			P
Lead			100.0	U	100.0	U	100.0	U			P
Selenium			500.0	U	500.0	U	500.0	U			P
Silver			100.0	U	100.0	U	100.0	U			P

METALS

-3-

BLANKS

Contract: R2844659

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Arsenic			500.0	U							P
Barium			1000.0	U							P
Cadmium			100.0	U							P
Chromium			100.0	U							P
Lead			100.0	U							P
Selenium			500.0	U							P
Silver			100.0	U							P

ICP INTERFERENCE CHECK SAMPLE

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

ICP ID Number: Optima ICP 3

ICS Source: PE PURE

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic		100	-6	94.7	94.7	-7	98.1	98.1
Barium		500	0	502.4	100.5	0	515.5	103.1
Cadmium		1000	0	942.2	94.2	0	977.9	97.8
Chromium		500	-1	490.4	98.1	-1	503.6	100.7
Lead		50	1	50.1	100.2	0	51.2	102.4
Selenium		50	7	58.0	116.0	5	54.9	109.8
Silver		200	-6	201.7	100.8	-4	205.6	102.8

ICP INTERFERENCE CHECK SAMPLE

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

ICP ID Number: Optima ICP 3

ICS Source: PE PURE

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic		100	0	0.0		-5	101.3	101.3
Barium		500	0	0.0		0	511.8	102.4
Cadmium		1000	0	0.0		0	969.9	97.0
Chromium		500	0	0.0		-1	501.5	100.3
Lead		50	0	0.0		-1	51.2	102.4
Selenium		50	0	0.0		6	55.7	111.4
Silver		200	0	0.0		-4	206.2	103.1

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

001S

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

Matrix (soil/water): TCLP

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): μ G/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	5089.4760	500.0000 U	5000.00	101.8		P
Barium	75 - 125	4540.5107	1000.0000 U	5000.00	90.8		P
Cadmium	75 - 125	1147.7959	244.3590	1000.00	90.3		P
Chromium	75 - 125	4813.9614	426.1750	5000.00	87.8		P
Lead	75 - 125	4699.6968	123.2509	5000.00	91.5		P
Mercury	75 - 125	1.0020	0.2000 U	1.00	100.2		CV
Selenium	75 - 125	1522.8823	597.0237	1000.00	92.6		P
Silver	75 - 125	5392.8833	192.9658	5000.00	104.0		P

Comments:

METALS

-6-

DUPLICATES

SAMPLE NO.

001D

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

Matrix (soil/water): TCLP

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		500.0000	U	500.0000	U			P
Barium		1000.0000	U	1000.0000	U			P
Cadmium	100.0	244.3590		216.6665		12.0		P
Chromium	100.0	426.1750		378.7242		11.8		P
Lead	100.0	123.2509		109.1337		12.1		P
Mercury		0.2000	U	0.2000	U			CV
Selenium	500.0	597.0237		523.6437		13.1		P
Silver	100.0	192.9658		169.9002		12.7		P

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

Solid LCS Source:

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic	5000.0	4694.78	93.9					
Barium	5000.0	4622.60	92.5					
Cadmium	1000.0	931.25	93.1					
Chromium	5000.0	4636.59	92.7					
Lead	5000.0	5138.34	102.8					
Mercury	1.0	1.02	102.0					
Selenium	1000.0	873.10	87.3					
Silver	5000.0	5033.72	100.7					

METALS

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

001L

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

Matrix (soil/water): TCLP

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Arsenic	500.00	U	2500.00	U			P
Barium	1000.00	U	5000.00	U			P
Cadmium	244.36		500.00	U	100.0		P
Chromium	426.18		500.00	U	100.0		P
Lead	123.25		500.00	U	100.0		P
Selenium	597.02		2500.00	U	100.0		P
Silver	192.97		500.00	U	100.0		P

METALS

-10-

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001ICP ID Number: Optima ICP 3Date: 05/15/08

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Arsenic	188.979		500.0	500.0	P
Barium	233.53		1000.0	1000.0	P
Cadmium	226.50		100.0	100.0	P
Chromium	267.72		100.0	100.0	P
Lead	220.35		100.0	100.0	P
Selenium	196.03		500.0	500.0	P
Silver	328.07		100.0	100.0	P

Comments _____

METALS

-10-

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

ICP ID Number:

Date: 04/18/08

Flame AA ID Number: PE FAA/CVAA

Furnace AA ID Number:

Analyte	Wave-length	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Mercury	253.70	BD	0.2	0.20	CV

Comments _____

METALS

-11A-

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Contract: R2844659

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 001ICP ID Number: Optima ICP 3Date: 3/11/2008

Analyte	Wave-length (nm)	Interelement Correction Factors for:			
		Al	Ca	Fe	Mg
Aluminum	308.215	0.0000000	0.0118115	-0.1269910	0.0092882
Antimony	206.836	-0.0055240	-0.0010796	-0.0121290	-0.0001929
Arsenic	188.979	0.0759349	0.0201907	-0.3955080	0.0119530
Barium	233.527	0.0007382	0.0009091	0.0374506	0.0001481
Beryllium	313.107	-0.0001530	-0.0002778	0.0000331	-0.0001084
Boron	249.772	0.0538147	-0.0116011	4.0791302	-0.0033324
Cadmium	226.502	-0.0015909	-0.0000825	0.0996463	0.0001701
Calcium	227.546	-0.2051280	0.0000000	-16.6219997	0.4009730
Chromium	267.716	-0.0004436	0.0002813	-0.0100267	-0.0022824
Cobalt	228.616	0.0020152	0.0006920	0.0435378	-0.0002654
Copper	324.752	0.0019049	0.0033526	-0.1169860	0.0100822
Iron	238.863	0.0787224	0.0846870	0.0000000	0.1592160
Lead	220.353	-0.0841463	-0.0107697	0.0247923	0.0017824
Magnesium	279.077	-0.0014261	0.0091372	-0.6769930	0.0000000
Manganese	257.610	-0.0063257	-0.0002978	-0.0187077	0.0167088
Molybdenum	202.031	-0.0016962	0.0017268	-0.0367099	0.0003531
Nickel	231.604	-0.0008609	0.0004067	0.0075604	-0.0002628
Potassium	766.490	4.2299600	10.9587002	-11.5244999	3.0783701
Selenium	196.026	-0.0280088	0.0036993	-0.3265160	0.0088052
Silver	328.068	0.0012949	0.0024762	-0.0769905	0.0004067
Sodium	589.592	-0.1012560	-0.4581040	-3.9446399	-0.0136253
Strontium	421.552	-0.0078598	0.0118769	0.0007869	0.0009977
Thallium	190.801	-0.0119105	-0.0183285	-0.0513818	-0.0073087
Tin	189.927	0.0287850	-0.0150628	0.0324566	0.0078653
Titanium	337.279	0.0001192	0.0038461	0.0033976	0.0001190
Vanadium	292.402	0.0008120	-0.0001309	-0.1573200	-0.0002292
Zinc	206.200	-0.0001196	0.0055953	0.1435090	0.0341727

Comments: _____

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG NO.: 001

ICP ID Number: Optima ICP 3

Date: 05/19/08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Arsenic	0.20	4000.0	P
Barium	0.20	40000.0	P
Cadmium	0.20	2000.0	P
Chromium	0.20	10000.0	P
Lead	0.20	10000.0	P
Selenium	0.20	2000.0	P
Silver	0.20	2000.0	P

Comments:

METALS

-13-

PREPARATION LOG

Contract: R2844659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 001

Method: P

Sample No.	Preparation Date	Weight (grams)	Volume (mL)
001	07/02/08	50	50
001D	07/02/08	50	50
001S	07/02/08	50	50
LCST	07/02/08	50	50
PBT	07/02/08	50	50

METALS

-13-

PREPARATION LOG

Contract: R2844659

Lab Code: Case No.: SAS No.: SDG NO.: 001

Method: CV

Sample No.	Preparation Date	Weight (grams)	Volume (mL)
001	07/02/08	25	25
001D	07/02/08	25	25
001S	07/02/08	25	25
LCST	07/02/08	25	25
PBT	07/02/08	25	25

METALS

-14-

ANALYSIS RUN LOG

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG No.: 001

Instrument ID Number: Optima ICP 3

Method: P

Start Date: 7/3/2008

End Date: 7/3/2008

Sample No.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A A	N L	T L	V N	Z N
Calib Blank 1	1.00	10:30				X	X		X	X				X						X	X					
Calib Std 1	1.00	10:36				X	X		X					X												
Calib Std 2	1.00	10:41								X										X	X					
Calib Std 3	1.00	10:47				X	X		X	X				X						X	X					
Calib Std 4	1.00	10:53				X	X		X	X				X						X	X					
ICV1	1.00	10:59				X	X		X	X				X						X	X					
ICB1	1.00	11:05				X	X		X	X				X						X	X					
CRDL1	1.00	11:10				X	X		X	X				X						X	X					
ICSA1	1.00	11:16				X	X		X	X				X						X	X					
ICS-AB1	1.00	11:22				X	X		X	X				X						X	X					
CCV1	1.00	11:28				X	X		X	X				X						X	X					
CCB1	1.00	11:34				X	X		X	X				X						X	X					
ZZZZZZ	1.00	11:39																								
ZZZZZZ	1.00	11:45																								
ZZZZZZ	1.00	11:51																								
ZZZZZZ	1.00	11:57																								
ZZZZZZ	1.00	12:02																								
ZZZZZZ	1.00	12:08																								
ZZZZZZ	5.00	12:14																								
ZZZZZZ	1.00	12:19																								
ZZZZZZ	1.00	12:25																								
ZZZZZZ	1.00	12:31																								
ZZZZZZ	1.00	12:37																								
ZZZZZZ	1.00	12:43																								
ZZZZZZ	1.00	12:48																								
ZZZZZZ	1.00	12:54																								
ZZZZZZ	1.00	13:00																								
ZZZZZZ	1.00	13:05																								
ZZZZZZ	1.00	13:11																								
ZZZZZZ	1.00	13:17																								
ZZZZZZ	1.00	13:23																								
ZZZZZZ	1.00	13:28																								

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R2844659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 001

Instrument ID Number: Optima ICP 3 Method: P

Start Date: 7/3/2008 End Date: 7/3/2008

Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C R	C O	F U	P B	M G	M N	H G	N I	K E	S E	A G	A L	T L	V L	Z N	C N
ZZZZZZ	1.00	13:35																							
ZZZZZZ	1.00	13:41																							
ZZZZZZ	1.00	13:46																							
ZZZZZZ	1.00	13:52																							
ZZZZZZ	1.00	13:58																							
ZZZZZZ	1.00	14:04																							
ZZZZZZ	1.00	14:09																							
ZZZZZZ	1.00	14:15																							
CCV2	1.00	14:21				X	X	X	X		X							X	X						
CCB2	1.00	14:27				X	X	X	X		X							X	X						
CRDL2	1.00	14:32				X	X	X	X		X							X	X						
ICSA2	1.00	14:38				X	X	X	X		X							X	X						
ICS-AB2	1.00	14:44				X	X	X	X		X							X	X						
ZZZZZZ	1.00	14:50																							
ZZZZZZ	1.00	14:55																							
CCV3	1.00	15:01				X	X	X	X		X							X	X						
CCB3	1.00	15:06				X	X	X	X		X							X	X						
ZZZZZZ	1.00	15:12																							
ZZZZZZ	3.00	15:18																							
ZZZZZZ	10.00	15:24																							
ZZZZZZ	10.00	15:30																							
ZZZZZZ	10.00	15:35																							
ZZZZZZ	10.00	15:41																							
ZZZZZZ	10.00	15:47																							
ZZZZZZ	5.00	15:52																							
ZZZZZZ	1.00	15:58																							
ZZZZZZ	1.00	16:03																							
CCV4	1.00	16:09				X	X	X	X		X							X	X						
CCB4	1.00	16:14				X	X	X	X		X							X	X						
ZZZZZZ	1.00	16:20																							
ZZZZZZ	1.00	16:26																							
ZZZZZZ	5.00	16:30																							

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R2844659

Lab Code:

Case No.:

SAS No.:

SDG No.: 001

Instrument ID Number: Optima ICP 3

Method: P

Start Date: 7/3/2008

End Date: 7/3/2008

Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C F	F U	P B	M G	M N	H G	N I	K	S E	A G	A L	T	V	Z N	C N
ZZZZZZ	50.00	16:36																									
ZZZZZZ	1.00	16:42																									
ZZZZZZ	1.00	16:48																									
ZZZZZZ	10.00	16:53																									
ZZZZZZ	10.00	16:59																									
PBT	1.00	17:06			X	X		X	X				X							X	X						
LCST	5.00	17:11			X																X						
CCV5	1.00	17:17			X	X		X	X				X							X	X						
CCB5	1.00	17:23			X	X		X	X				X							X	X						
LCST	1.00	17:29					X	X	X				X							X							
ZZZZZZ	1.00	17:35																									
001	1.00	17:40			X	X		X	X				X							X	X						
001D	1.00	17:45			X	X		X	X				X							X	X						
001S	5.00	17:49			X																X						
001S	1.00	17:55				X		X	X				X							X							
001L	5.00	17:59			X	X		X	X				X							X	X						
CCV6	1.00	18:05			X	X		X	X				X							X	X						
CCB6	1.00	18:11			X	X		X	X				X							X	X						
CRDL3	1.00	18:17			X	X		X	X				X							X	X						
ICSA3	1.00	18:23			X	X		X	X				X							X	X						
ICS-AB3	1.00	18:29			X	X		X	X				X							X	X						
CCV7	1.00	18:34			X	X		X	X				X							X	X						
CCB7	1.00	18:40			X	X		X	X				X							X	X						

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R2844659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 001

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 7/2/2008 End Date: 7/2/2008

Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V L	Z N	C N		
Calib Blank	1.00	15:25																										X	
0.2ppb std	1.00	15:27																										X	
0.5ppb std	1.00	15:29																										X	
1ppb std	1.00	15:31																										X	
2ppb std	1.00	15:32																										X	
5ppb std	1.00	15:34																										X	
10ppb std	1.00	15:36																										X	
ICV1	1.00	15:38																										X	
ICB1	1.00	15:40																										X	
CRII	1.00	15:41																										X	
CCV1	1.00	15:43																										X	
CCB1	1.00	15:45																										X	
PBT	1.00	15:47																										X	
LCST	1.00	15:49																										X	
001	1.00	15:50																										X	
001D	1.00	15:52																										X	
001S	1.00	15:54																										X	
CRII	1.00	15:56																										X	
CCV2	1.00	15:58																										X	
CCB2	1.00	16:00																										X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals Cover Page

Analyst: SD

Date: 7/31/08

Instrument: #3

Data File: 3jul03

Reviewed By: CK 7/1/08

Entered By: SD 7/1/08

Approval: SD 7/1/08

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Comments/ Problems
163462	Cd Pb	M4700003	100100		
163477	Se Zn	M4570073	100100		
163478	Ca	M4700042	200		
163479	AgAsBaCdCrPbSe	M4700059	100100		

Package Data:

Client Sub#	Package	Analytes Used	Failed Metals	Batch ID	Stds Attached?	Transferred To LIMS	Raw Data Copied?
✓ R44319	5 / ASP	Cd Pb		M4700003	Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
✓ R44059	5 / ASP	AgAsBaCdCrPbSe		M4700059	Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
✓ 44649	5 / ASP	Se - 1112003 only			Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No

=====
Analysis Begun

Start Time: 7/3/2008 10:30:15 AM Plasma On Time: 7/3/2008 7:39:38 AM
 Logged In Analyst: ROCACOMET08 Technique: ICP Continuous
 Spectrometer Model: Optima 5300 DV, S/N 077N6051602 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Optima5300\Sample Information\ROUTINE.sif

Batch ID:
 Results Data Set: 3jul03
 Results Library: C:\pe\Optima5300\Results\Jul08.mdb

Sdelva 7/3/08

=====
 Method Loaded
 Method Name: AXIAL 200.7 - 6010B Method Last Saved: 5/29/2008 1:36:12 PM
 IEC File: 031108.iec MSF File:
 Method Description: 5300DV TAL Metals Method 200.7/6010B

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Al 308.215	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
B 249.772	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Cd 226.502	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Fe 238.863	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
K 404.721	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Mg 279.077	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Na 330.237	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Ti 337.279	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Ca 227.546	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Sr 460.733	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes

=====
 Sequence No.: 1 Autosampler Location: 1
 Sample ID: Calib Blank 1 Date Collected: 7/3/2008 10:30:15 AM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 371.029	7569059.8	36020.42	0.48%	1.0000 mg/L
Ag 328.068†	1675.1	139.80	8.35%	[0.00] mg/L
Al 308.215†	5223.1	78.05	1.49%	[0.00] mg/L
As 188.979†	10.6	4.26	40.07%	[0.00] mg/L
B 249.772†	1323.0	36.58	2.77%	[0.00] mg/L
Ba 233.527†	-878.0	4.98	0.57%	[0.00] mg/L
Be 313.107†	-8799.8	44.88	0.51%	[0.00] mg/L
Cd 226.502†	-212.0	6.13	2.89%	[0.00] mg/L
Co 228.616†	-0.9	0.91	96.49%	[0.00] mg/L
Cr 267.716†	1131.7	1.01	0.09%	[0.00] mg/L
Cu 324.752†	3342.2	56.82	1.70%	[0.00] mg/L
Fe 238.863†	12006.1	87.96	0.73%	[0.00] mg/L

K 404.721†	300.0	35.22	11.74%	[0.00]	mg/L
Mg 279.077†	-4581.7	77.30	1.69%	[0.00]	mg/L
Mn 257.610†	-2589.5	17.70	0.68%	[0.00]	mg/L
Mo 202.031†	-22.9	4.23	18.46%	[0.00]	mg/L
Ni 231.604†	-396.6	2.01	0.51%	[0.00]	mg/L
Na 330.237†	344.2	38.44	11.17%	[0.00]	mg/L
Pb 220.353†	69.0	13.15	19.06%	[0.00]	mg/L
Sb 206.836†	40.0	10.26	25.66%	[0.00]	mg/L
Se 196.026†	9.3	4.21	45.44%	[0.00]	mg/L
Sn 189.927†	61.5	2.30	3.74%	[0.00]	mg/L
Ti 337.279†	-1034.8	59.30	5.73%	[0.00]	mg/L
Tl 190.801†	-45.4	3.36	7.38%	[0.00]	mg/L
V 292.402†	312.4	6.33	2.03%	[0.00]	mg/L
Zn 206.200†	13.1	3.51	26.80%	[0.00]	mg/L
Ca 227.546†	752.2	15.38	2.05%	[0.00]	mg/L
Sr 460.733†	-5444.4	112.21	2.06%	[0.00]	mg/L

```

=====
Sequence No.: 2                               Autosampler Location: 154
Sample ID: Calib Std 1                       Date Collected: 7/3/2008 10:36:03 AM
Analyst:                                     Data Type: Original
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
=====

```

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	7507043.1	72492.75	0.97%	0.9918	mg/L
Al 308.215†	2762.1	79.51	2.88%	[0.1000]	mg/L
As 188.979†	44.2	0.09	0.21%	[0.0100]	mg/L
Ba 233.527†	3687.2	24.37	0.66%	[0.0200]	mg/L
Cd 226.502†	1137.7	9.21	0.81%	[0.0050]	mg/L
Cu 324.752†	5603.8	69.40	1.24%	[0.0200]	mg/L
Mn 257.610†	9243.3	91.49	0.99%	[0.0100]	mg/L
Mo 202.031†	978.9	16.60	1.70%	[0.0250]	mg/L
Pb 220.353†	67.3	1.70	2.53%	[0.0050]	mg/L
Sb 206.836†	70.2	5.45	7.76%	[0.0100]	mg/L
Tl 190.801†	54.7	0.35	0.63%	[0.0200]	mg/L

```

=====
Sequence No.: 3                               Autosampler Location: 155
Sample ID: Calib Std 2                       Date Collected: 7/3/2008 10:41:49 AM
Analyst:                                     Data Type: Original
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
=====

```

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	7524978.6	58904.15	0.78%	0.9942	mg/L
Ag 328.068†	3601.2	227.72	6.32%	[0.0100]	mg/L
B 249.772†	9030.5	70.61	0.78%	[0.0500]	mg/L
Be 313.107†	28707.1	40.42	0.14%	[0.0050]	mg/L
Co 228.616†	2999.5	56.47	1.88%	[0.0500]	mg/L
Cr 267.716†	2522.7	23.99	0.95%	[0.0100]	mg/L
Fe 238.863†	3939.0	89.00	2.26%	[0.1000]	mg/L
K 404.721†	223.2	59.02	26.44%	[0.5000]	mg/L
Mg 279.077†	17137.4	36.71	0.21%	[0.5000]	mg/L
Ni 231.604†	4223.0	42.14	1.00%	[0.0400]	mg/L
Na 330.237†	566.4	133.22	23.52%	[0.5000]	mg/L
Se 196.026†	24.7	4.80	19.42%	[0.0100]	mg/L
Sn 189.927†	1692.3	32.70	1.93%	[0.1000]	mg/L
Ti 337.279†	39276.3	52.46	0.13%	[0.0500]	mg/L
V 292.402†	8327.7	4.83	0.06%	[0.0500]	mg/L
Zn 206.200†	2078.0	26.83	1.29%	[0.0200]	mg/L
Ca 227.546†	217.9	10.51	4.82%	[0.5000]	mg/L
Sr 460.733†	36309.8	100.17	0.28%	[0.0500]	mg/L

```

=====
Sequence No.: 4                               Autosampler Location: 156
=====

```

Sample ID: Calib Std 3
 Analyst:
 Initial Sample Wt:
 Dilution:

Date Collected: 7/3/2008 10:47:34 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	7482409.7	26271.47	0.35%	0.9886	mg/L
Ag 328.068†	71259.3	184.52	0.26%	[0.2000]	mg/L
Al 308.215†	115272.0	35.37	0.03%	[4.0000]	mg/L
As 188.979†	1739.7	2.22	0.13%	[0.4000]	mg/L
B 249.772†	184461.1	2146.12	1.16%	[1.0000]	mg/L
Ba 233.527†	724332.1	1941.05	0.27%	[4.0000]	mg/L
Be 313.107†	579770.4	712.81	0.12%	[0.1000]	mg/L
Cd 226.502†	45303.2	198.54	0.44%	[0.2000]	mg/L
Co 228.616†	59907.6	90.88	0.15%	[1.0000]	mg/L
Cr 267.716†	51085.3	210.24	0.41%	[0.2000]	mg/L
Cu 324.752†	137435.8	532.70	0.39%	[0.5000]	mg/L
Fe 238.863†	73875.7	259.16	0.35%	[2.0000]	mg/L
K 404.721†	2185.1	70.44	3.22%	[10.000]	mg/L
Mg 279.077†	333383.7	647.26	0.19%	[10.000]	mg/L
Mn 257.610†	273233.8	620.76	0.23%	[0.3000]	mg/L
Mo 202.031†	38797.9	333.79	0.86%	[1.0000]	mg/L
Ni 231.604†	84237.1	260.94	0.31%	[0.8000]	mg/L
Na 330.237†	11757.6	0.61	0.01%	[10.000]	mg/L
Pb 220.353†	2917.0	5.67	0.19%	[0.2000]	mg/L
Sb 206.836†	12562.6	18.33	0.15%	[2.0000]	mg/L
Se 196.026†	392.0	5.77	1.47%	[0.2000]	mg/L
Sn 189.927†	34080.8	222.06	0.65%	[2.0000]	mg/L
Ti 337.279†	782937.6	1184.62	0.15%	[1.0000]	mg/L
Tl 190.801†	2258.2	14.60	0.65%	[0.4000]	mg/L
V 292.402†	166964.2	174.89	0.10%	[1.0000]	mg/L
Zn 206.200†	36381.5	139.22	0.38%	[0.4000]	mg/L
Ca 227.546†	4352.5	34.08	0.78%	[10.000]	mg/L
Sr 460.733†	834868.7	198.43	0.02%	[1.0000]	mg/L

=====
 Sequence No.: 5
 Sample ID: Calib Std 4
 Analyst:
 Initial Sample Wt:
 Dilution:

=====
 Autosampler Location: 2
 Date Collected: 7/3/2008 10:53:25 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: Calib Std 4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	7235199.5	27654.76	0.38%	0.9559	mg/L
Ag 328.068†	357237.4	824.77	0.23%	[1.0000]	mg/L
Al 308.215†	584729.8	1479.07	0.25%	[20.000]	mg/L
As 188.979†	8680.7	12.73	0.15%	[2.0000]	mg/L
B 249.772†	951211.9	7617.66	0.80%	[5.0000]	mg/L
Ba 233.527†	3482356.0	8355.22	0.24%	[20.000]	mg/L
Be 313.107†	2893152.0	2434.79	0.08%	[0.5000]	mg/L
Cd 226.502†	222457.9	293.94	0.13%	[1.0000]	mg/L
Co 228.616†	290537.1	489.67	0.17%	[5.0000]	mg/L
Cr 267.716†	253762.3	623.80	0.25%	[1.0000]	mg/L
Cu 324.752†	686632.3	2669.97	0.39%	[2.5000]	mg/L
Fe 238.863†	363515.9	878.05	0.24%	[10.000]	mg/L
K 404.721†	11966.9	59.97	0.50%	[50.000]	mg/L
Mg 279.077†	1626274.7	2834.11	0.17%	[50.000]	mg/L
Mn 257.610†	1336482.4	2243.52	0.17%	[1.5000]	mg/L
Mo 202.031†	193609.0	1704.95	0.88%	[5.0000]	mg/L
Ni 231.604†	407952.1	566.03	0.14%	[4.0000]	mg/L
Na 330.237†	66996.9	61.37	0.09%	[50.000]	mg/L
Pb 220.353†	14023.9	23.51	0.17%	[1.0000]	mg/L
Sb 206.836†	63089.6	412.12	0.65%	[10.000]	mg/L
Se 196.026†	1938.2	1.86	0.10%	[1.0000]	mg/L
Sn 189.927†	168224.6	232.81	0.14%	[10.000]	mg/L
Ti 337.279†	3896410.3	10246.82	0.26%	[5.0000]	mg/L

Tl 190.801†	10798.8	17.01	0.16%	[2.0000]	mg/L
V 292.402†	840052.1	2247.10	0.27%	[5.0000]	mg/L
Zn 206.200†	178240.1	210.56	0.12%	[2.0000]	mg/L
Ca 227.546†	21662.7	6.98	0.03%	[50.0000]	mg/L
Sr 460.733†	4644247.0	7944.42	0.17%	[5.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	357200	0.00000	1.000000	
Al 308.215	3	Lin Thru 0	0.0	29220	0.00000	0.999996	
As 188.979	3	Lin Thru 0	0.0	4341	0.00000	1.000000	
B 249.772	3	Lin Thru 0	0.0	190000	0.00000	0.999983	
Ba 233.527	3	Lin Thru 0	0.0	174400	0.00000	0.999971	
Be 313.107	3	Lin Thru 0	0.0	5787000	0.00000	1.000000	
Cd 226.502	3	Lin Thru 0	0.0	222600	0.00000	0.999994	
Co 228.616	3	Lin Thru 0	0.0	58180	0.00000	0.999982	
Cr 267.716	3	Lin Thru 0	0.0	253800	0.00000	0.999999	
Cu 324.752	3	Lin Thru 0	0.0	274700	0.00000	1.000000	
Fe 238.863	3	Lin Thru 0	0.0	36370	0.00000	0.999995	
K 404.721	3	Lin Thru 0	0.0	238.6	0.00000	0.999823	
Mg 279.077	3	Lin Thru 0	0.0	32560	0.00000	0.999988	
Mn 257.610	3	Lin Thru 0	0.0	891800	0.00000	0.999991	
Mo 202.031	3	Lin Thru 0	0.0	38720	0.00000	1.000000	
Ni 231.604	3	Lin Thru 0	0.0	102100	0.00000	0.999981	
Na 330.237	3	Lin Thru 0	0.0	1334	0.00000	0.999719	
Pb 220.353	3	Lin Thru 0	0.0	14050	0.00000	0.999970	
Sb 206.836	3	Lin Thru 0	0.0	6308	0.00000	1.000000	
Se 196.026	3	Lin Thru 0	0.0	1939	0.00000	0.999994	
Sn 189.927	3	Lin Thru 0	0.0	16830	0.00000	0.999997	
Ti 337.279	3	Lin Thru 0	0.0	779400	0.00000	1.000000	
Tl 190.801	3	Lin Thru 0	0.0	5409	0.00000	0.999950	
V 292.402	3	Lin Thru 0	0.0	168000	0.00000	0.999999	
Zn 206.200	3	Lin Thru 0	0.0	89190	0.00000	0.999991	
Ca 227.546	3	Lin Thru 0	0.0	433.3	0.00000	1.000000	
Sr 460.733	3	Lin Thru 0	0.0	925200	0.00000	0.999807	

Sequence No.: 6
 Sample ID: ICV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 7/3/2008 10:59:26 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7293551.6	0.9636 mg/L	0.00168			0.17%
Ag 328.068†	181615.6	0.5087 mg/L	0.00261	0.5087 mg/L	0.00261	0.51%
QC value	within limits for Ag 328.068 Recovery = 101.75%					
Al 308.215†	290090.0	9.928 mg/L	0.0417	9.928 mg/L	0.0417	0.42%
QC value	within limits for Al 308.215 Recovery = 99.28%					
As 188.979†	4432.9	1.022 mg/L	0.0007	1.022 mg/L	0.0007	0.07%
QC value	within limits for As 188.979 Recovery = 102.17%					
B 249.772†	474461.5	2.476 mg/L	0.0229	2.476 mg/L	0.0229	0.92%
QC value	within limits for B 249.772 Recovery = 99.04%					
Ba 233.527†	1777566.7	10.19 mg/L	0.005	10.19 mg/L	0.005	0.05%
QC value	within limits for Ba 233.527 Recovery = 101.93%					
Be 313.107†	1474189.0	0.2548 mg/L	0.00017	0.2548 mg/L	0.00017	0.07%
QC value	within limits for Be 313.107 Recovery = 101.91%					
Cd 226.502†	112393.1	0.5044 mg/L	0.00253	0.5044 mg/L	0.00253	0.50%
QC value	within limits for Cd 226.502 Recovery = 100.88%					
Co 228.616†	149355.5	2.567 mg/L	0.0091	2.567 mg/L	0.0091	0.35%
QC value	within limits for Co 228.616 Recovery = 102.68%					
Cr 267.716†	129291.5	0.5095 mg/L	0.00227	0.5095 mg/L	0.00227	0.45%
QC value	within limits for Cr 267.716 Recovery = 101.90%					
Cu 324.752†	344400.6	1.254 mg/L	0.0057	1.254 mg/L	0.0057	0.45%
QC value	within limits for Cu 324.752 Recovery = 100.33%					
Fe 238.863†	184311.1	5.060 mg/L	0.0329	5.060 mg/L	0.0329	0.65%
QC value	within limits for Fe 238.863 Recovery = 101.20%					

K 404.721†	5625.5	23.24 mg/L	0.382	23.24 mg/L	0.382	1.64%
QC value	less than the lower limit for K 404.721			Recovery = 92.97%		
Mg 279.077†	826077.3	25.38 mg/L	0.128	25.38 mg/L	0.128	0.50%
QC value	within limits for Mg 279.077			Recovery = 101.51%		
Mn 257.610†	680173.5	0.7625 mg/L	0.00268	0.7625 mg/L	0.00268	0.35%
QC value	within limits for Mn 257.610			Recovery = 101.66%		
Mo 202.031†	96167.6	2.484 mg/L	0.0259	2.484 mg/L	0.0259	1.04%
QC value	within limits for Mo 202.031			Recovery = 99.34%		
Ni 231.604†	210747.1	2.064 mg/L	0.0096	2.064 mg/L	0.0096	0.47%
QC value	within limits for Ni 231.604			Recovery = 103.19%		
Na 330.237†	32009.8	24.04 mg/L	0.045	24.04 mg/L	0.045	0.19%
QC value	within limits for Na 330.237			Recovery = 96.14%		
Pb 220.353†	7361.3	0.5250 mg/L	0.00057	0.5250 mg/L	0.00057	0.11%
QC value	greater than the upper limit for Pb 220.353			Recovery = 105.01%	105% OK	
Sb 206.836†	31845.6	5.049 mg/L	0.0117	5.049 mg/L	0.0117	0.23%
QC value	within limits for Sb 206.836			Recovery = 100.97%		
Se 196.026†	975.6	0.5047 mg/L	0.00230	0.5047 mg/L	0.00230	0.46%
QC value	within limits for Se 196.026			Recovery = 100.95%		
Sn 189.927†	83994.8	4.990 mg/L	0.0191	4.990 mg/L	0.0191	0.38%
QC value	within limits for Sn 189.927			Recovery = 99.81%		
Ti 337.279†	1970092.0	2.528 mg/L	0.0138	2.528 mg/L	0.0138	0.55%
QC value	within limits for Ti 337.279			Recovery = 101.10%		
Tl 190.801†	5858.0	1.084 mg/L	0.0016	1.084 mg/L	0.0016	0.15%
QC value	greater than the upper limit for Tl 190.801			Recovery = 108.41%		
V 292.402†	424770.3	2.530 mg/L	0.0035	2.530 mg/L	0.0035	0.14%
QC value	within limits for V 292.402			Recovery = 101.19%		
Zn 206.200†	89925.4	1.006 mg/L	0.0060	1.006 mg/L	0.0060	0.59%
QC value	within limits for Zn 206.200			Recovery = 100.65%		
Ca 227.546†	10949.0	25.34 mg/L	0.021	25.34 mg/L	0.021	0.08%
QC value	within limits for Ca 227.546			Recovery = 101.37%		
Sr 460.733†	2223213.0	2.403 mg/L	0.0061	2.403 mg/L	0.0061	0.25%
QC value	within limits for Sr 460.733			Recovery = 96.11%		

QC Failed. Continue with analysis.

Sequence No.: 7
 Sample ID: ICB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 7/3/2008 11:05:14 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7674162.1	1.014 mg/L	0.0050			0.49%
Ag 328.068†	346.8	0.0010 mg/L	0.00013	0.0010 mg/L	0.00013	13.56%
QC value	within limits for Ag 328.068			Recovery = Not calculated		
Al 308.215†	-6.9	-0.0002 mg/L	0.00043	-0.0002 mg/L	0.00043	181.03%
QC value	within limits for Al 308.215			Recovery = Not calculated		
As 188.979†	8.7	0.0020 mg/L	0.00035	0.0020 mg/L	0.00035	17.66%
QC value	within limits for As 188.979			Recovery = Not calculated		
B 249.772†	10397.8	0.0547 mg/L	0.00533	0.0547 mg/L	0.00533	9.73%
QC value	within limits for B 249.772			Recovery = Not calculated		
Ba 233.527†	162.5	0.0009 mg/L	0.00024	0.0009 mg/L	0.00024	26.05%
QC value	within limits for Ba 233.527			Recovery = Not calculated		
Be 313.107†	213.7	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	29.05%
QC value	within limits for Be 313.107			Recovery = Not calculated		
Cd 226.502†	34.8	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	24.60%
QC value	within limits for Cd 226.502			Recovery = Not calculated		
Co 228.616†	11.6	0.0002 mg/L	0.00017	0.0002 mg/L	0.00017	86.18%
QC value	within limits for Co 228.616			Recovery = Not calculated		
Cr 267.716†	10.9	0.0000 mg/L	0.00019	0.0000 mg/L	0.00019	445.43%
QC value	within limits for Cr 267.716			Recovery = Not calculated		
Cu 324.752†	422.8	0.0015 mg/L	0.00005	0.0015 mg/L	0.00005	3.05%
QC value	within limits for Cu 324.752			Recovery = Not calculated		
Fe 238.863†	60.8	0.0017 mg/L	0.00141	0.0017 mg/L	0.00141	84.27%
QC value	within limits for Fe 238.863			Recovery = Not calculated		
K 404.721†	137.1	0.5742 mg/L	0.27918	0.5742 mg/L	0.27918	48.62%
QC value	within limits for K 404.721			Recovery = Not calculated		
Mg 279.077†	86.3	0.0027 mg/L	0.00043	0.0027 mg/L	0.00043	16.09%
QC value	within limits for Mg 279.077			Recovery = Not calculated		

Mn	257.610†	91.3	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	1.89%	
	QC value	within limits for Mn 257.610 Recovery = Not calculated						
Mo	202.031†	179.9	0.0046 mg/L	0.00119	0.0046 mg/L	0.00119	25.64%	
	QC value	within limits for Mo 202.031 Recovery = Not calculated						
Ni	231.604†	14.2	0.0001 mg/L	0.00011	0.0001 mg/L	0.00011	80.06%	
	QC value	within limits for Ni 231.604 Recovery = Not calculated						
Na	330.237†	-52.1	-0.0391 mg/L	0.04690	-0.0391 mg/L	0.04690	120.07%	
	QC value	within limits for Na 330.237 Recovery = Not calculated						
Pb	220.353†	-14.2	-0.0010 mg/L	0.00034	-0.0010 mg/L	0.00034	34.00%	
	QC value	within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	90.4	0.0143 mg/L	0.00390	0.0143 mg/L	0.00390	27.18%	
	QC value	greater than the upper limit for Sb 206.836 Recovery = Not calculated						
Se	196.026†	1.1	0.0006 mg/L	0.00156	0.0006 mg/L	0.00156	282.89%	
	QC value	within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	165.2	0.0098 mg/L	0.00107	0.0098 mg/L	0.00107	10.93%	
	QC value	within limits for Sn 189.927 Recovery = Not calculated						
Ti	337.279†	456.1	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	2.45%	
	QC value	within limits for Ti 337.279 Recovery = Not calculated						
Tl	190.801†	4.9	0.0009 mg/L	0.00167	0.0009 mg/L	0.00167	182.76%	
	QC value	within limits for Tl 190.801 Recovery = Not calculated						
V	292.402†	13.5	0.0001 mg/L	0.00025	0.0001 mg/L	0.00025	307.79%	
	QC value	within limits for V 292.402 Recovery = Not calculated						
Zn	206.200†	31.9	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	2.24%	
	QC value	within limits for Zn 206.200 Recovery = Not calculated						
Ca	227.546†	12.6	0.0290 mg/L	0.02348	0.0290 mg/L	0.02348	80.94%	
	QC value	within limits for Ca 227.546 Recovery = Not calculated						
Sr	460.733†	42.6	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	62.10%	
	QC value	within limits for Sr 460.733 Recovery = Not calculated						
QC Failed. Continue with analysis.								

Sequence NO.: 8
 Sample ID: MRL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 7/3/2008 11:10:56 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7547051.4	0.9971 mg/L	0.00099			0.10%
Ag 328.068†	3693.1	0.0103 mg/L	0.00004	0.0103 mg/L	0.00004	0.35%
	QC value within limits for Ag 328.068 Recovery = 103.45%					
Al 308.215†	5708.0	0.1953 mg/L	0.00051	0.1953 mg/L	0.00051	0.26%
	QC value within limits for Al 308.215 Recovery = 97.67%					
As 188.979†	89.7	0.0207 mg/L	0.00026	0.0207 mg/L	0.00026	1.28%
	QC value within limits for As 188.979 Recovery = 103.30%					
B 249.772†	42032.5	0.2207 mg/L	0.00109	0.2207 mg/L	0.00109	0.49%
	QC value within limits for B 249.772 Recovery = 110.37%					
Ba 233.527†	37028.8	0.2123 mg/L	0.00004	0.2123 mg/L	0.00004	0.02%
	QC value within limits for Ba 233.527 Recovery = 106.17%					
Be 313.107†	28928.2	0.0050 mg/L	0.00000	0.0050 mg/L	0.00000	0.08%
	QC value within limits for Be 313.107 Recovery = 99.99%					
Cd 226.502†	2258.2	0.0101 mg/L	0.00001	0.0101 mg/L	0.00001	0.11%
	QC value within limits for Cd 226.502 Recovery = 101.33%					
Co 228.616†	2998.2	0.0515 mg/L	0.00017	0.0515 mg/L	0.00017	0.32%
	QC value within limits for Co 228.616 Recovery = 103.06%					
Cr 267.716†	2551.1	0.0101 mg/L	0.00009	0.0101 mg/L	0.00009	0.89%
	QC value within limits for Cr 267.716 Recovery = 100.54%					
Cu 324.752†	7119.9	0.0259 mg/L	0.00006	0.0259 mg/L	0.00006	0.21%
	QC value within limits for Cu 324.752 Recovery = 103.69%					
Fe 238.863†	4135.4	0.1134 mg/L	0.00156	0.1134 mg/L	0.00156	1.37%
	QC value within limits for Fe 238.863 Recovery = 113.43%					
K 404.721†	338.6	1.406 mg/L	0.1886	1.406 mg/L	0.1886	13.41%
	QC value greater than the upper limit for K 404.721 Recovery = 140.62%					
Mg 279.077†	33964.3	1.043 mg/L	0.0013	1.043 mg/L	0.0013	0.13%
	QC value within limits for Mg 279.077 Recovery = 104.33%					
Mn 257.610†	14043.2	0.0157 mg/L	0.00010	0.0157 mg/L	0.00010	0.62%
	QC value within limits for Mn 257.610 Recovery = 104.89%					
Mo 202.031†	1005.3	0.0260 mg/L	0.00005	0.0260 mg/L	0.00005	0.20%
	QC value within limits for Mo 202.031 Recovery = 103.85%					

Ni 231.604†	4244.5	0.0416 mg/L	0.00003	0.0416 mg/L	0.00003	0.08%
QC value within limits for Ni 231.604 Recovery = 103.91%						
Na 330.237†	1054.0	0.7913 mg/L	0.10833	0.7913 mg/L	0.10833	13.69%
QC value less than the lower limit for Na 330.237 Recovery = 79.13%						
Pb 220.353†	142.5	0.0102 mg/L	0.00085	0.0102 mg/L	0.00085	8.39%
QC value within limits for Pb 220.353 Recovery = 101.71%						
Sb 206.836†	402.2	0.0638 mg/L	0.00105	0.0638 mg/L	0.00105	1.64%
QC value within limits for Sb 206.836 Recovery = 106.28%						
Se 196.026†	23.9	0.0124 mg/L	0.00139	0.0124 mg/L	0.00139	11.26%
QC value greater than the upper limit for Se 196.026 Recovery = 123.69%						
Sn 189.927†	8535.2	0.5071 mg/L	0.00097	0.5071 mg/L	0.00097	0.19%
QC value within limits for Sn 189.927 Recovery = 101.42%						
Ti 337.279†	38996.7	0.0500 mg/L	0.00019	0.0500 mg/L	0.00019	0.38%
QC value within limits for Ti 337.279 Recovery = 100.06%						
Tl 190.801†	118.5	0.0219 mg/L	0.00002	0.0219 mg/L	0.00002	0.09%
QC value within limits for Tl 190.801 Recovery = 109.67%						
V 292.402†	8341.0	0.0497 mg/L	0.00021	0.0497 mg/L	0.00021	0.42%
QC value within limits for V 292.402 Recovery = 99.35%						
Zn 206.200†	1819.3	0.0203 mg/L	0.00008	0.0203 mg/L	0.00008	0.40%
QC value within limits for Zn 206.200 Recovery = 101.70%						
Ca 227.546†	415.0	0.9593 mg/L	0.00891	0.9593 mg/L	0.00891	0.93%
QC value within limits for Ca 227.546 Recovery = 95.93%						
Sr 460.733†	74436.4	0.0804 mg/L	0.00021	0.0804 mg/L	0.00021	0.26%
QC value within limits for Sr 460.733 Recovery = 80.44%						
QC Failed. Continue with analysis.						

Sequence No.: 9
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 7/3/2008 11:16:36 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	6725047.6	0.8885 mg/L	0.00495			0.56%
Ag 328.068†	-4100.7	-0.0055 mg/L	0.00021	-0.0055 mg/L	0.00021	3.87%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 308.215†	7175230.8	245.6 mg/L	0.12	245.6 mg/L	0.12	0.05%
QC value within limits for Al 308.215 Recovery = 98.22%						
As 188.979†	-68.4	-0.0064 mg/L	0.00203	-0.0064 mg/L	0.00203	31.73%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.772†	63392.0	-0.0474 mg/L	0.00106	-0.0474 mg/L	0.00106	2.23%
Ba 233.527†	653.8	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	7.20%
Be 313.107†	-750.4	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	43.33%
QC value within limits for Be 313.107 Recovery = Not calculated						
Cd 226.502†	1982.5	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	20.59%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	127.7	-0.0024 mg/L	0.00005	-0.0024 mg/L	0.00005	2.22%
Cr 267.716†	-561.4	-0.0007 mg/L	0.00003	-0.0007 mg/L	0.00003	3.97%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-1798.4	0.0004 mg/L	0.00033	0.0004 mg/L	0.00033	95.36%
Fe 238.863†	3313097.9	91.00 mg/L	0.137	91.00 mg/L	0.137	0.15%
QC value within limits for Fe 238.863 Recovery = 91.00%						
K 404.721†	920.2	0.3425 mg/L	0.01898	0.3425 mg/L	0.01898	5.54%
Mg 279.077†	7871849.7	241.8 mg/L	0.54	241.8 mg/L	0.54	0.22%
QC value within limits for Mg 279.077 Recovery = 96.74%						
Mn 257.610†	-5279.0	-0.0066 mg/L	0.00001	-0.0066 mg/L	0.00001	0.16%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-83.4	0.0011 mg/L	0.00002	0.0011 mg/L	0.00002	2.21%
Ni 231.604†	-118.7	-0.0017 mg/L	0.00010	-0.0017 mg/L	0.00010	6.15%
Na 330.237†	-499.6	0.1291 mg/L	0.03720	0.1291 mg/L	0.03720	28.81%
Pb 220.353†	-280.4	0.0007 mg/L	0.00046	0.0007 mg/L	0.00046	62.61%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-30.8	-0.0021 mg/L	0.00056	-0.0021 mg/L	0.00056	26.67%
Se 196.026†	-51.6	0.0069 mg/L	0.00119	0.0069 mg/L	0.00119	17.19%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-191.8	-0.0195 mg/L	0.00039	-0.0195 mg/L	0.00039	1.99%
Ti 337.279†	324.0	-0.0009 mg/L	0.00005	-0.0009 mg/L	0.00005	5.34%
Tl 190.801†	-86.3	-0.0019 mg/L	0.00306	-0.0019 mg/L	0.00306	158.05%

QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† -1951.0 0.0026 mg/L 0.00007 0.0026 mg/L 0.00007 2.83%
Zn 206.200† 693.0 -0.0150 mg/L 0.00013 -0.0150 mg/L 0.00013 0.86%
Ca 227.546† 109990.1 255.3 mg/L 0.61 255.3 mg/L 0.61 0.24%
QC value within limits for Ca 227.546 Recovery = 102.12%
Sr 460.733† 763.6 -0.0006 mg/L 0.00018 -0.0006 mg/L 0.00018 31.86%
All analyte(s) passed QC.

Sequence No.: 10 Autosampler Location: 8
Sample ID: ICSAB Date Collected: 7/3/2008 11:22:23 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	6725777.0	0.8886 mg/L	0.00213			0.24%
Ag 328.068†	69930.6	0.2017 mg/L	0.00105	0.2017 mg/L	0.00105	0.52%
QC value within limits for Ag 328.068 Recovery = 100.87%						
Al 308.215†	7150561.1	244.7 mg/L	0.43	244.7 mg/L	0.43	0.17%
QC value within limits for Al 308.215 Recovery = 97.89%						
As 188.979†	370.4	0.0947 mg/L	0.00273	0.0947 mg/L	0.00273	2.89%
QC value within limits for As 188.979 Recovery = 94.71%						
B 249.772†	62060.6	-0.0537 mg/L	0.00348	-0.0537 mg/L	0.00348	6.48%
Ba 233.527†	88282.8	0.5024 mg/L	0.00269	0.5024 mg/L	0.00269	0.54%
QC value within limits for Ba 233.527 Recovery = 100.48%						
Be 313.107†	2883445.1	0.4984 mg/L	0.00080	0.4984 mg/L	0.00080	0.16%
QC value within limits for Be 313.107 Recovery = 99.68%						
Cd 226.502†	211684.3	0.9422 mg/L	0.00551	0.9422 mg/L	0.00551	0.58%
QC value within limits for Cd 226.502 Recovery = 94.22%						
Co 228.616†	27193.6	0.4629 mg/L	0.00120	0.4629 mg/L	0.00120	0.26%
QC value within limits for Co 228.616 Recovery = 92.57%						
Cr 267.716†	124100.2	0.4904 mg/L	0.00257	0.4904 mg/L	0.00257	0.52%
QC value within limits for Cr 267.716 Recovery = 98.08%						
Cu 324.752†	136052.4	0.5022 mg/L	0.00220	0.5022 mg/L	0.00220	0.44%
QC value within limits for Cu 324.752 Recovery = 100.45%						
Fe 238.863†	3306932.9	90.83 mg/L	0.188	90.83 mg/L	0.188	0.21%
QC value within limits for Fe 238.863 Recovery = 90.83%						
K 404.721†	887.7	0.2181 mg/L	0.41219	0.2181 mg/L	0.41219	189.03%
Mg 279.077†	7858813.5	241.4 mg/L	0.56	241.4 mg/L	0.56	0.23%
QC value within limits for Mg 279.077 Recovery = 96.58%						
Mn 257.610†	428509.5	0.4798 mg/L	0.00306	0.4798 mg/L	0.00306	0.64%
QC value within limits for Mn 257.610 Recovery = 95.96%						
Mo 202.031†	-93.9	0.0008 mg/L	0.00035	0.0008 mg/L	0.00035	43.98%
Ni 231.604†	95466.4	0.9344 mg/L	0.00601	0.9344 mg/L	0.00601	0.64%
QC value within limits for Ni 231.604 Recovery = 93.44%						
Na 330.237†	815.6	1.114 mg/L	0.0740	1.114 mg/L	0.0740	6.64%
Pb 220.353†	413.3	0.0501 mg/L	0.00044	0.0501 mg/L	0.00044	0.87%
QC value within limits for Pb 220.353 Recovery = 100.11%						
Sb 206.836†	3854.4	0.6138 mg/L	0.00200	0.6138 mg/L	0.00200	0.33%
QC value within limits for Sb 206.836 Recovery = 102.30%						
Se 196.026†	47.6	0.0580 mg/L	0.00069	0.0580 mg/L	0.00069	1.20%
QC value within limits for Se 196.026 Recovery = 116.03%						
Sn 189.927†	-221.2	-0.0212 mg/L	0.00070	-0.0212 mg/L	0.00070	3.32%
Ti 337.279†	333.5	-0.0009 mg/L	0.00003	-0.0009 mg/L	0.00003	2.84%
Tl 190.801†	467.6	0.1004 mg/L	0.00112	0.1004 mg/L	0.00112	1.12%
QC value within limits for Tl 190.801 Recovery = 100.44%						
V 292.402†	80608.3	0.4941 mg/L	0.00421	0.4941 mg/L	0.00421	0.85%
QC value within limits for V 292.402 Recovery = 98.82%						
Zn 206.200†	83094.6	0.9090 mg/L	0.00611	0.9090 mg/L	0.00611	0.67%
QC value within limits for Zn 206.200 Recovery = 90.90%						
Ca 227.546†	109641.0	254.5 mg/L	1.49	254.5 mg/L	1.49	0.58%
QC value within limits for Ca 227.546 Recovery = 101.79%						
Sr 460.733†	828.6	-0.0005 mg/L	0.00012	-0.0005 mg/L	0.00012	23.52%
All analyte(s) passed QC.						

Sequence No.: 11 Autosampler Location: 3
Sample ID: CCV Date Collected: 7/3/2008 11:28:13 AM

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7256245.9	0.9587 mg/L	0.00252			0.26%
Ag 328.068†	180475.5	0.5056 mg/L	0.00407	0.5056 mg/L	0.00407	0.81%
QC value within limits for Ag		328.068 Recovery = 101.11%				
Al 308.215†	288196.0	9.863 mg/L	0.0905	9.863 mg/L	0.0905	0.92%
QC value within limits for Al		308.215 Recovery = 98.63%				
As 188.979†	4338.3	0.9999 mg/L	0.00333	0.9999 mg/L	0.00333	0.33%
QC value within limits for As		188.979 Recovery = 99.99%				
B 249.772†	459531.3	2.398 mg/L	0.0035	2.398 mg/L	0.0035	0.15%
QC value within limits for B		249.772 Recovery = 95.91%				
Ba 233.527†	1758264.4	10.08 mg/L	0.010	10.08 mg/L	0.010	0.09%
QC value within limits for Ba		233.527 Recovery = 100.82%				
Be 313.107†	1460450.2	0.2524 mg/L	0.00027	0.2524 mg/L	0.00027	0.11%
QC value within limits for Be		313.107 Recovery = 100.96%				
Cd 226.502†	111165.2	0.4989 mg/L	0.00405	0.4989 mg/L	0.00405	0.81%
QC value within limits for Cd		226.502 Recovery = 99.78%				
Co 228.616†	147584.6	2.537 mg/L	0.0229	2.537 mg/L	0.0229	0.90%
QC value within limits for Co		228.616 Recovery = 101.46%				
Cr 267.716†	128470.8	0.5062 mg/L	0.00449	0.5062 mg/L	0.00449	0.89%
QC value within limits for Cr		267.716 Recovery = 101.25%				
Cu 324.752†	341692.9	1.244 mg/L	0.0083	1.244 mg/L	0.0083	0.67%
QC value within limits for Cu		324.752 Recovery = 99.54%				
Fe 238.863†	182770.6	5.018 mg/L	0.0448	5.018 mg/L	0.0448	0.89%
QC value within limits for Fe		238.863 Recovery = 100.36%				
K 404.721†	5669.0	23.43 mg/L	0.367	23.43 mg/L	0.367	1.56%
QC value within limits for K		404.721 Recovery = 93.72%				
Mg 279.077†	816306.6	25.08 mg/L	0.217	25.08 mg/L	0.217	0.87%
QC value within limits for Mg		279.077 Recovery = 100.31%				
Mn 257.610†	673605.7	0.7551 mg/L	0.00610	0.7551 mg/L	0.00610	0.81%
QC value within limits for Mn		257.610 Recovery = 100.68%				
Mo 202.031†	94775.4	2.448 mg/L	0.0030	2.448 mg/L	0.0030	0.12%
QC value within limits for Mo		202.031 Recovery = 97.90%				
Ni 231.604†	208381.4	2.041 mg/L	0.0176	2.041 mg/L	0.0176	0.86%
QC value within limits for Ni		231.604 Recovery = 102.03%				
Na 330.237†	31796.3	23.87 mg/L	0.199	23.87 mg/L	0.199	0.83%
QC value within limits for Na		330.237 Recovery = 95.50%				
Pb 220.353†	7215.9	0.5147 mg/L	0.00210	0.5147 mg/L	0.00210	0.41%
QC value within limits for Pb		220.353 Recovery = 102.94%				
Sb 206.836†	31139.4	4.937 mg/L	0.0003	4.937 mg/L	0.0003	0.01%
QC value within limits for Sb		206.836 Recovery = 98.73%				
Se 196.026†	956.5	0.4948 mg/L	0.00247	0.4948 mg/L	0.00247	0.50%
QC value within limits for Se		196.026 Recovery = 98.97%				
Sn 189.927†	82567.2	4.905 mg/L	0.0378	4.905 mg/L	0.0378	0.77%
QC value within limits for Sn		189.927 Recovery = 98.11%				
Ti 337.279†	1952660.0	2.505 mg/L	0.0050	2.505 mg/L	0.0050	0.20%
QC value within limits for Ti		337.279 Recovery = 100.21%				
Tl 190.801†	5745.4	1.063 mg/L	0.0021	1.063 mg/L	0.0021	0.20%
QC value within limits for Tl		190.801 Recovery = 106.33%				
V 292.402†	421231.9	2.509 mg/L	0.0245	2.509 mg/L	0.0245	0.98%
QC value within limits for V		292.402 Recovery = 100.34%				
Zn 206.200†	88584.1	0.9915 mg/L	0.00756	0.9915 mg/L	0.00756	0.76%
QC value within limits for Zn		206.200 Recovery = 99.15%				
Ca 227.546†	10752.4	24.89 mg/L	0.094	24.89 mg/L	0.094	0.38%
QC value within limits for Ca		227.546 Recovery = 99.56%				
Sr 460.733†	2222864.3	2.402 mg/L	0.0011	2.402 mg/L	0.0011	0.05%
QC value within limits for Sr		460.733 Recovery = 96.09%				

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/3/2008 11:34:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

 Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7568775.1	1.0000 mg/L	0.00214			0.21%
Ag 328.068†	149.5	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	5.78%
QC value within limits for Ag		328.068	Recovery =	Not calculated		
Al 308.215†	103.1	0.0035 mg/L	0.00102	0.0035 mg/L	0.00102	28.81%
QC value within limits for Al		308.215	Recovery =	Not calculated		
As 188.979†	3.1	0.0007 mg/L	0.00048	0.0007 mg/L	0.00048	66.82%
QC value within limits for As		188.979	Recovery =	Not calculated		
B 249.772†	6716.6	0.0354 mg/L	0.00437	0.0354 mg/L	0.00437	12.35%
QC value within limits for B		249.772	Recovery =	Not calculated		
Ba 233.527†	122.9	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	1.18%
QC value within limits for Ba		233.527	Recovery =	Not calculated		
Be 313.107†	604.1	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	16.67%
QC value within limits for Be		313.107	Recovery =	Not calculated		
Cd 226.502†	37.0	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	9.50%
QC value within limits for Cd		226.502	Recovery =	Not calculated		
Co 228.616†	12.1	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	1.29%
QC value within limits for Co		228.616	Recovery =	Not calculated		
Cr 267.716†	5.3	0.0000 mg/L	0.00032	0.0000 mg/L	0.00032	>999.9%
QC value within limits for Cr		267.716	Recovery =	Not calculated		
Cu 324.752†	410.1	0.0015 mg/L	0.00008	0.0015 mg/L	0.00008	5.52%
QC value within limits for Cu		324.752	Recovery =	Not calculated		
Fe 238.863†	-181.6	-0.0050 mg/L	0.00066	-0.0050 mg/L	0.00066	13.13%
QC value within limits for Fe		238.863	Recovery =	Not calculated		
K 404.721†	168.0	0.7043 mg/L	0.52493	0.7043 mg/L	0.52493	74.53%
QC value within limits for K		404.721	Recovery =	Not calculated		
Mg 279.077†	319.4	0.0098 mg/L	0.00159	0.0098 mg/L	0.00159	16.17%
QC value within limits for Mg		279.077	Recovery =	Not calculated		
Mn 257.610†	144.5	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	1.68%
QC value within limits for Mn		257.610	Recovery =	Not calculated		
Mo 202.031†	147.7	0.0038 mg/L	0.00071	0.0038 mg/L	0.00071	18.57%
QC value within limits for Mo		202.031	Recovery =	Not calculated		
Ni 231.604†	9.9	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	131.76%
QC value within limits for Ni		231.604	Recovery =	Not calculated		
Na 330.237†	-14.9	-0.0112 mg/L	0.08964	-0.0112 mg/L	0.08964	799.10%
QC value within limits for Na		330.237	Recovery =	Not calculated		
Pb 220.353†	-6.8	-0.0005 mg/L	0.00016	-0.0005 mg/L	0.00016	32.11%
QC value within limits for Pb		220.353	Recovery =	Not calculated		
Sb 206.836†	76.6	0.0122 mg/L	0.00250	0.0122 mg/L	0.00250	20.61%
QC value greater than the upper limit for Sb		206.836	Recovery =	Not calculated		
Se 196.026†	7.1	0.0037 mg/L	0.00238	0.0037 mg/L	0.00238	64.64%
QC value within limits for Se		196.026	Recovery =	Not calculated		
Sn 189.927†	120.2	0.0071 mg/L	0.00104	0.0071 mg/L	0.00104	14.50%
QC value within limits for Sn		189.927	Recovery =	Not calculated		
Ti 337.279†	331.0	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	12.31%
QC value within limits for Ti		337.279	Recovery =	Not calculated		
Tl 190.801†	5.7	0.0010 mg/L	0.00079	0.0010 mg/L	0.00079	75.42%
QC value within limits for Tl		190.801	Recovery =	Not calculated		
V 292.402†	3.4	0.0000 mg/L	0.00009	0.0000 mg/L	0.00009	443.39%
QC value within limits for V		292.402	Recovery =	Not calculated		
Zn 206.200†	20.1	0.0002 mg/L	0.00012	0.0002 mg/L	0.00012	52.71%
QC value within limits for Zn		206.200	Recovery =	Not calculated		
Ca 227.546†	-11.3	-0.0263 mg/L	0.00739	-0.0263 mg/L	0.00739	28.11%
QC value within limits for Ca		227.546	Recovery =	Not calculated		
Sr 460.733†	-36.0	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	68.00%
QC value within limits for Sr		460.733	Recovery =	Not calculated		
QC Failed. Continue with analysis.						

Sequence No.: 13
 Sample ID: PBW-M4700003
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 38
 Date Collected: 7/3/2008 11:39:52 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

 Mean Data: PBW-M4700003

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
---------	--------------------------	-------------------	----------	--------------------	----------	-----

Y 371.029	7630828.1	1.008 mg/L	0.0050	0.50%
Ag 328.068†	104.4	0.0003 mg/L	0.00000	0.21%
Al 308.215†	85.4	0.0029 mg/L	0.00226	77.26%
As 188.979†	-6.4	-0.0015 mg/L	0.00165	111.90%
B 249.772†	3568.9	0.0188 mg/L	0.00132	7.04%
Ba 233.527†	68.9	0.0004 mg/L	0.00002	4.64%
Be 313.107†	394.3	0.0001 mg/L	0.00000	5.51%
Cd 226.502†	26.9	0.0001 mg/L	0.00002	13.34%
Co 228.616†	-2.3	0.0000 mg/L	0.00016	391.46%
Cr 267.716†	42.5	0.0002 mg/L	0.00034	200.00%
Cu 324.752†	522.2	0.0019 mg/L	0.00001	0.68%
Fe 238.863†	-93.3	-0.0026 mg/L	0.00056	21.75%
K 404.721†	-66.8	-0.2798 mg/L	0.80688	288.41%
Mg 279.077†	165.9	0.0051 mg/L	0.00148	29.15%
Mn 257.610†	127.6	0.0001 mg/L	0.00002	14.48%
Mo 202.031†	54.8	0.0014 mg/L	0.00022	15.34%
Ni 231.604†	17.6	0.0002 mg/L	0.00002	12.18%
Na 330.237†	243.6	0.1826 mg/L	0.01398	7.66%
Pb 220.353†	-12.8	-0.0009 mg/L	0.00077	84.14%
Sb 206.836†	31.3	0.0050 mg/L	0.00031	6.15%
Se 196.026†	4.2	0.0022 mg/L	0.00337	155.92%
Sn 189.927†	77.5	0.0046 mg/L	0.00016	3.51%
Ti 337.279†	397.5	0.0005 mg/L	0.00002	4.17%
Tl 190.801†	0.4	0.0001 mg/L	0.00081	>999.9%
V 292.402†	-18.2	-0.0001 mg/L	0.00000	4.25%
Zn 206.200†	231.9	0.0026 mg/L	0.00005	1.96%
Ca 227.546†	-14.6	-0.0336 mg/L	0.01584	47.09%
Sr 460.733†	119.2	0.0001 mg/L	0.00006	47.10%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 14
Sample ID: LCSW-M4700003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 7/3/2008 11:45:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: LCSW-M4700003

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7436604.8	0.9825 mg/L	0.00276			0.28%
Ag 328.068†	18653.2	0.0523 mg/L	0.00044			0.85%
Al 308.215†	55950.5	1.915 mg/L	0.0125			0.65%
As 188.979†	156.1	0.0361 mg/L	0.00198			5.48%
B 249.772†	177727.2	0.9311 mg/L	0.00331			0.36%
Ba 233.527†	349771.1	2.006 mg/L	0.0163			0.81%
Be 313.107†	279100.4	0.0482 mg/L	0.00048			1.00%
Cd 226.502†	10994.7	0.0493 mg/L	0.00009			0.19%
Co 228.616†	29758.9	0.5115 mg/L	0.00107			0.21%
Cr 267.716†	50443.2	0.1987 mg/L	0.00207			1.04%
Cu 324.752†	71683.2	0.2611 mg/L	0.00210			0.80%
Fe 238.863†	36705.0	1.008 mg/L	0.0136			1.35%
K 404.721†	4082.4	17.09 mg/L	0.210			1.23%
Mg 279.077†	64601.4	1.985 mg/L	0.0177			0.89%
Mn 257.610†	439697.8	0.4931 mg/L	0.00417			0.85%
Mo 202.031†	19360.3	0.5000 mg/L	0.00030			0.06%
Ni 231.604†	52469.5	0.5138 mg/L	0.00454			0.88%
Na 330.237†	23678.5	17.76 mg/L	0.120			0.68%
Pb 220.353†	7360.5	0.5242 mg/L	0.00126			0.24%
Sb 206.836†	2993.8	0.4746 mg/L	0.00097			0.20%
Se 196.026†	1853.1	0.9560 mg/L	0.00176			0.18%
Sn 189.927†	86649.3	5.148 mg/L	0.0517			1.00%
Ti 337.279†	385833.3	0.4950 mg/L	0.00472			0.95%
Tl 190.801†	10956.3	2.026 mg/L	0.0001			0.01%
V 292.402†	83780.7	0.4989 mg/L	0.00574			1.15%
Zn 206.200†	43932.6	0.4923 mg/L	0.00140			0.28%
Ca 227.546†	876.2	2.038 mg/L	0.0157			0.77%
Sr 460.733†	1614708.4	1.745 mg/L	0.0058			0.33%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 15
Sample ID: 1106749
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 7/3/2008 11:51:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 1106749

Table with 8 columns: Analyte, Mean Corrected Intensity, Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like Y, Ag, Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Ni, Na, Pb, Sb, Se, Sn, Ti, Tl, V, Zn, Ca, Sr with their respective values.

Sequence No.: 16
Sample ID: 1106749D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 7/3/2008 11:57:04 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 1106749D

Table with 8 columns: Analyte, Mean Corrected Intensity, Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like Y, Ag, Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Ni, Na, Pb, Sb, Se with their respective values.

Sn 189.927†	-100.1	-0.0057 mg/L	0.00026	4.64%
Ti 337.279†	204.9	0.0001 mg/L	0.00006	67.13%
Tl 190.801†	-13.2	-0.0012 mg/L	0.00054	43.56%
V 292.402†	-88.8	0.0007 mg/L	0.00004	5.28%
Zn 206.200†	3362.4	0.0360 mg/L	0.00025	0.69%
Ca 227.546†	17074.1	39.53 mg/L	0.029	0.07%
Sr 460.733†	207881.6	0.2242 mg/L	0.00025	0.11%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

```

=====
Sequence No.: 17                               Autosampler Location: 42
Sample ID: 1106749S                           Date Collected: 7/3/2008 12:02:47 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol: 50 mL
=====

```

Mean Data: 1106749S

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7198701.4	0.9511 mg/L	0.00039			0.04%
Ag 328.068†	18807.8	0.0532 mg/L	0.00050			0.94%
Al 308.215†	57947.3	1.984 mg/L	0.0090			0.46%
As 188.979†	163.3	0.0400 mg/L	0.00022			0.55%
B 249.772†	195598.5	0.9934 mg/L	0.01125			1.13%
Ba 233.527†	353094.8	2.024 mg/L	0.0092			0.45%
Be 313.107†	289727.2	0.0501 mg/L	0.00025			0.50%
Cd 226.502†	11136.3	0.0491 mg/L	0.00027			0.55%
Co 228.616†	29499.8	0.5067 mg/L	0.00214			0.42%
Cr 267.716†	51245.2	0.2020 mg/L	0.00111			0.55%
Cu 324.752†	75217.8	0.2746 mg/L	0.00138			0.50%
Fe 238.863†	324346.0	8.911 mg/L	0.0460			0.52%
K 404.721†	5520.3	22.74 mg/L	0.018			0.08%
Mg 279.077†	409907.1	12.60 mg/L	0.056			0.45%
Mn 257.610†	550406.7	0.6172 mg/L	0.00269			0.44%
Mo 202.031†	19699.2	0.5090 mg/L	0.00079			0.15%
Ni 231.604†	52334.3	0.5124 mg/L	0.00304			0.59%
Na 330.237†	296006.4	222.0 mg/L	0.96			0.43%
Pb 220.353†	7246.4	0.5163 mg/L	0.00127			0.25%
Sb 206.836†	3090.8	0.4902 mg/L	0.00126			0.26%
Se 196.026†	1962.2	1.015 mg/L	0.0062			0.61%
Sn 189.927†	88817.8	5.277 mg/L	0.0404			0.77%
Ti 337.279†	393007.9	0.5040 mg/L	0.00267			0.53%
Tl 190.801†	10560.2	1.954 mg/L	0.0055			0.28%
V 292.402†	85889.4	0.5127 mg/L	0.00217			0.42%
Zn 206.200†	48040.0	0.5367 mg/L	0.00309			0.58%
Ca 227.546†	17950.4	41.57 mg/L	0.162			0.39%
Sr 460.733†	2096524.9	2.265 mg/L	0.0031			0.14%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

```

=====
Sequence No.: 18                               Autosampler Location: 43
Sample ID: 1106749A                           Date Collected: 7/3/2008 12:08:30 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol: 50 mL
=====

```

Mean Data: 1106749A

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7253003.5	0.9582 mg/L	0.00376			0.39%
Ag 328.068†	18676.0	0.0529 mg/L	0.00028			0.53%
Al 308.215†	57010.1	1.952 mg/L	0.0083			0.43%
As 188.979†	156.7	0.0385 mg/L	0.00168			4.36%
B 249.772†	194964.0	0.9905 mg/L	0.00050			0.05%
Ba 233.527†	350137.3	2.007 mg/L	0.0113			0.56%
Be 313.107†	287877.8	0.0498 mg/L	0.00031			0.62%
Cd 226.502†	11005.2	0.0486 mg/L	0.00022			0.45%
Co 228.616†	29215.0	0.5018 mg/L	0.00159			0.32%
Cr 267.716†	51785.5	0.2041 mg/L	0.00142			0.69%
Cu 324.752†	74409.6	0.2717 mg/L	0.00105			0.39%

Fe 238.863†	320761.5	8.813 mg/L	0.0600	0.68%
K 404.721†	5418.1	22.32 mg/L	0.159	0.71%
Mg 279.077†	405512.0	12.46 mg/L	0.087	0.70%
Mn 257.610†	546704.6	0.6131 mg/L	0.00350	0.57%
Mo 202.031†	41.7	0.0013 mg/L	0.00036	26.82%
Ni 231.604†	51931.2	0.5085 mg/L	0.00351	0.69%
Na 330.237†	290973.1	218.2 mg/L	0.12	0.06%
Pb 220.353†	7194.9	0.5126 mg/L	0.00159	0.31%
Sb 206.836†	32.0	0.0052 mg/L	0.00224	42.66%
Se 196.026†	24.6	0.0154 mg/L	0.00003	0.19%
Sn 189.927†	-18.7	-0.0009 mg/L	0.00153	163.55%
Ti 337.279†	258.2	0.0001 mg/L	0.00004	25.24%
Tl 190.801†	10574.2	1.956 mg/L	0.0102	0.52%
V 292.402†	85376.2	0.5097 mg/L	0.00308	0.60%
Zn 206.200†	46800.5	0.5228 mg/L	0.00274	0.52%
Ca 227.546†	17646.8	40.87 mg/L	0.106	0.26%
Sr 460.733†	207736.2	0.2240 mg/L	0.00094	0.42%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 19
 Sample ID: 1106749L
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 44
 Date Collected: 7/3/2008 12:14:15 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106749L

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7577400.7	1.001 mg/L	0.0067			0.66%
Ag 328.068†	116.3	0.0004 mg/L	0.00008			19.12%
Al 308.215†	286.2	0.0099 mg/L	0.00080			8.10%
As 188.979†	-1.2	0.0002 mg/L	0.00006			35.16%
B 249.772†	4587.6	0.0176 mg/L	0.00143			8.11%
Ba 233.527†	1131.1	0.0064 mg/L	0.00011			1.72%
Be 313.107†	96.3	0.0000 mg/L	0.00002			83.64%
Cd 226.502†	53.4	0.0001 mg/L	0.00001			9.84%
Co 228.616†	9.4	0.0001 mg/L	0.00015			174.66%
Cr 267.716†	-10.8	0.0000 mg/L	0.00004			154.57%
Cu 324.752†	911.4	0.0035 mg/L	0.00015			4.24%
Fe 238.863†	58954.8	1.620 mg/L	0.0015			0.10%
K 404.721†	274.5	1.075 mg/L	0.2720			25.30%
Mg 279.077†	72256.0	2.220 mg/L	0.0030			0.14%
Mn 257.610†	22167.3	0.0249 mg/L	0.00003			0.14%
Mo 202.031†	15.5	0.0004 mg/L	0.00007			16.01%
Ni 231.604†	1.2	0.0000 mg/L	0.00018			>999.9%
Na 330.237†	45669.6	34.26 mg/L	0.029			0.09%
Pb 220.353†	4.1	0.0003 mg/L	0.00043			127.99%
Sb 206.836†	11.4	0.0018 mg/L	0.00075			40.79%
Se 196.026†	0.8	0.0009 mg/L	0.00120			132.30%
Sn 189.927†	7.5	0.0005 mg/L	0.00012			24.49%
Ti 337.279†	118.5	0.0001 mg/L	0.00007			61.40%
Tl 190.801†	6.9	0.0015 mg/L	0.00031			20.46%
V 292.402†	-19.1	0.0001 mg/L	0.00001			6.08%
Zn 206.200†	897.0	0.0097 mg/L	0.00002			0.22%
Ca 227.546†	3453.7	7.996 mg/L	0.0024			0.03%
Sr 460.733†	36117.3	0.0389 mg/L	0.00015			0.38%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 20
 Sample ID: 1106750
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 45
 Date Collected: 7/3/2008 12:19:57 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106750

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7603880.6	1.005 mg/L	0.0060			0.60%

Ag 328.068†	174.1	0.0004 mg/L	0.00030	71.53%
Al 308.215†	165.7	0.0053 mg/L	0.00012	2.30%
As 188.979†	7.6	0.0012 mg/L	0.00091	76.72%
B 249.772†	6506.5	0.0345 mg/L	0.00095	2.76%
Ba 233.527†	480.3	0.0027 mg/L	0.00003	1.10%
Be 313.107†	36.2	0.0000 mg/L	0.00003	219.20%
Cd 226.502†	18.4	0.0001 mg/L	0.00001	17.37%
Co 228.616†	-0.7	0.0000 mg/L	0.00018	597.91%
Cr 267.716†	104.8	0.0004 mg/L	0.00001	3.50%
Cu 324.752†	3652.3	0.0132 mg/L	0.00019	1.46%
Fe 238.863†	671.8	0.0157 mg/L	0.00268	17.10%
K 404.721†	161.2	0.3711 mg/L	0.40944	110.32%
Mg 279.077†	99897.6	3.068 mg/L	0.0317	1.03%
Mn 257.610†	76.3	0.0000 mg/L	0.00001	27.28%
Mo 202.031†	49.1	0.0012 mg/L	0.00021	17.52%
Ni 231.604†	-27.9	-0.0003 mg/L	0.00001	2.80%
Na 330.237†	1592.6	1.207 mg/L	0.0295	2.45%
Pb 220.353†	0.4	0.0003 mg/L	0.00023	73.19%
Sb 206.836†	7.4	0.0012 mg/L	0.00084	70.24%
Se 196.026†	7.2	0.0036 mg/L	0.00167	46.84%
Sn 189.927†	-86.0	-0.0047 mg/L	0.00020	4.21%
Ti 337.279†	247.1	0.0002 mg/L	0.00006	29.05%
Tl 190.801†	-9.4	-0.0012 mg/L	0.00153	125.58%
V 292.402†	183.4	0.0011 mg/L	0.00005	4.68%
Zn 206.200†	929.7	0.0102 mg/L	0.00007	0.65%
Ca 227.546†	11680.8	26.96 mg/L	0.280	1.04%
Sr 460.733†	49370.0	0.0530 mg/L	0.00017	0.33%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 21
 Sample ID: 1106751
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 46
 Date Collected: 7/3/2008 12:25:44 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106751

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7523053.8	0.9939 mg/L	0.00077			0.08%
Ag 328.068†	253.2	0.0006 mg/L	0.00047			75.44%
Al 308.215†	154.1	0.0048 mg/L	0.00226			47.06%
As 188.979†	-0.7	-0.0009 mg/L	0.00066			70.30%
B 249.772†	4411.8	0.0235 mg/L	0.00018			0.76%
Ba 233.527†	433.6	0.0025 mg/L	0.00003			1.28%
Be 313.107†	59.2	0.0000 mg/L	0.00000			14.12%
Cd 226.502†	4.3	0.0000 mg/L	0.00000			15.46%
Co 228.616†	-4.3	-0.0001 mg/L	0.00001			11.45%
Cr 267.716†	178.5	0.0007 mg/L	0.00013			17.49%
Cu 324.752†	2256.1	0.0080 mg/L	0.00005			0.66%
Fe 238.863†	1042.3	0.0243 mg/L	0.00030			1.22%
K 404.721†	426.5	1.393 mg/L	0.3028			21.74%
Mg 279.077†	319384.9	9.810 mg/L	0.0045			0.05%
Mn 257.610†	54.0	-0.0001 mg/L	0.00000			5.20%
Mo 202.031†	40.6	0.0010 mg/L	0.00001			0.93%
Ni 231.604†	-30.1	-0.0003 mg/L	0.00005			17.17%
Na 330.237†	12474.5	9.369 mg/L	0.0790			0.84%
Pb 220.353†	-14.3	-0.0007 mg/L	0.00030			44.99%
Sb 206.836†	2.2	0.0004 mg/L	0.00020			52.88%
Se 196.026†	10.8	0.0054 mg/L	0.00134			24.89%
Sn 189.927†	-111.4	-0.0062 mg/L	0.00022			3.61%
Ti 337.279†	104.1	0.0000 mg/L	0.00013			>999.9%
Tl 190.801†	-16.7	-0.0024 mg/L	0.00095			39.57%
V 292.402†	342.8	0.0021 mg/L	0.00001			0.52%
Zn 206.200†	517.6	0.0053 mg/L	0.00015			2.77%
Ca 227.546†	14432.8	33.30 mg/L	0.112			0.34%
Sr 460.733†	87066.0	0.0937 mg/L	0.00042			0.45%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 22

Autosampler Location: 47

Sample ID: 1106752
 Analyst:
 Initial Sample Wt:
 Dilution:

Date Collected: 7/3/2008 12:31:27 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

 Mean Data: 1106752

Analyte	Mean Corrected			Std.Dev.	Sample		RSD
	Intensity	Conc.	Units		Conc.	Units	
Y 371.029	7674496.3	1.014	mg/L	0.0075			0.74%
Ag 328.068†	236.5	0.0006	mg/L	0.00017			26.56%
Al 308.215†	265.6	0.0089	mg/L	0.00136			15.19%
As 188.979†	-1.9	-0.0007	mg/L	0.00074			112.86%
B 249.772†	2628.1	0.0138	mg/L	0.00042			3.03%
Ba 233.527†	220.8	0.0013	mg/L	0.00008			6.54%
Be 313.107†	96.2	0.0000	mg/L	0.00002			82.46%
Cd 226.502†	14.8	0.0001	mg/L	0.00004			58.52%
Co 228.616†	-3.7	-0.0001	mg/L	0.00011			146.64%
Cr 267.716†	409.1	0.0016	mg/L	0.00000			0.10%
Cu 324.752†	28092.6	0.1022	mg/L	0.00097			0.95%
Fe 238.863†	1431.0	0.0381	mg/L	0.00287			7.53%
K 404.721†	326.9	1.247	mg/L	0.5864			47.04%
Mg 279.077†	68650.1	2.109	mg/L	0.0046			0.22%
Mn 257.610†	970.9	0.0011	mg/L	0.00001			1.05%
Mo 202.031†	15.5	0.0004	mg/L	0.00024			62.99%
Ni 231.604†	420.1	0.0041	mg/L	0.00000			0.01%
Na 330.237†	16231.4	12.18	mg/L	0.028			0.23%
Pb 220.353†	24.9	0.0019	mg/L	0.00022			11.54%
Sb 206.836†	4.5	0.0007	mg/L	0.00060			84.03%
Se 196.026†	1.6	0.0008	mg/L	0.00198			245.47%
Sn 189.927†	-38.8	-0.0022	mg/L	0.00010			4.67%
Ti 337.279†	135.3	0.0001	mg/L	0.00005			38.89%
Tl 190.801†	-0.3	0.0002	mg/L	0.00166			>999.9%
V 292.402†	45.2	0.0003	mg/L	0.00003			12.05%
Zn 206.200†	989.6	0.0110	mg/L	0.00006			0.54%
Ca 227.546†	4649.5	10.73	mg/L	0.112			1.04%
Sr 460.733†	48488.1	0.0523	mg/L	0.00017			0.32%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

=====

Sequence No.: 23	Autosampler Location: 3
Sample ID: CCV	Date Collected: 7/3/2008 12:37:10 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected			Std.Dev.	Sample		RSD
	Intensity	Conc.	Units		Conc.	Units	
Y 371.029	7484906.4	0.9889	mg/L	0.00057			0.06%
Ag 328.068†	181235.9	0.5077	mg/L	0.00054	0.5077	mg/L	0.11%
Al 308.215†	289033.2	9.892	mg/L	0.0088	9.892	mg/L	0.09%
As 188.979†	4464.7	1.029	mg/L	0.0003	1.029	mg/L	0.03%
B 249.772†	466289.1	2.433	mg/L	0.0189	2.433	mg/L	0.78%
Ba 233.527†	1780251.4	10.21	mg/L	0.014	10.21	mg/L	0.14%
Be 313.107†	1485007.8	0.2566	mg/L	0.00018	0.2566	mg/L	0.07%
Cd 226.502†	112746.5	0.5060	mg/L	0.00002	0.5060	mg/L	0.00%
Co 228.616†	149681.8	2.573	mg/L	0.0025	2.573	mg/L	0.10%
Cr 267.716†	129446.6	0.5101	mg/L	0.00027	0.5101	mg/L	0.05%
Cu 324.752†	336807.1	1.226	mg/L	0.0011	1.226	mg/L	0.09%
Fe 238.863†	183824.8	5.047	mg/L	0.0074	5.047	mg/L	0.15%

Element	QC Value	QC Value	Recovery	Concentration (mg/L)	Std. Dev.	RSD
K 404.721†	5752.4	23.78 mg/L	100.94%	0.302	1.27%	
Mg 279.077†	826180.5	25.38 mg/L	95.12%	0.018	0.07%	
Mn 257.610†	680071.3	0.7624 mg/L	101.52%	0.00038	0.05%	
Mo 202.031†	95862.3	2.476 mg/L	101.65%	0.0183	0.74%	
Ni 231.604†	211167.1	2.068 mg/L	99.03%	0.0009	0.04%	
Na 330.237†	31816.8	23.89 mg/L	103.39%	0.014	0.06%	
Pb 220.353†	7374.9	0.5260 mg/L	95.56%	0.00064	0.12%	
Sb 206.836†	31754.5	5.034 mg/L	105.20%	0.0103	0.20%	
Se 196.026†	985.1	0.5096 mg/L	100.68%	0.00189	0.37%	
Sn 189.927†	86365.9	5.131 mg/L	101.92%	0.0103	0.20%	
Ti 337.279†	1976321.9	2.536 mg/L	102.62%	0.0039	0.15%	
Tl 190.801†	5866.7	1.086 mg/L	101.42%	0.0017	0.16%	
V 292.402†	426813.5	2.542 mg/L	108.57%	0.0012	0.05%	
Zn 206.200†	89735.2	1.004 mg/L	101.67%	0.0013	0.13%	
Ca 227.546†	10736.0	24.85 mg/L	100.44%	0.058	0.23%	
Sr 460.733†	221184.7	2.390 mg/L	99.41%	0.0011	0.04%	
			95.59%			

All analyte(s) passed QC.

Sequence No.: 24
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 7/3/2008 12:43:01 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7649073.0	1.011 mg/L	0.0058			0.58%
Ag 328.068†	208.2	0.0006 mg/L	0.00042	0.0006 mg/L	0.00042	72.69%
Al 308.215†	146.6	0.0050 mg/L	0.00082	0.0050 mg/L	0.00082	16.30%
As 188.979†	1.9	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	46.56%
B 249.772†	5315.8	0.0280 mg/L	0.00309	0.0280 mg/L	0.00309	11.05%
Ba 233.527†	130.8	0.0007 mg/L	0.00006	0.0007 mg/L	0.00006	8.65%
Be 313.107†	413.4	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	14.83%
Cd 226.502†	22.0	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	27.35%
Co 228.616†	8.9	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	45.25%
Cr 267.716†	-59.8	-0.0002 mg/L	0.00011	-0.0002 mg/L	0.00011	47.49%
Cu 324.752†	299.6	0.0011 mg/L	0.00035	0.0011 mg/L	0.00035	31.78%
Fe 238.863†	88.8	0.0024 mg/L	0.00122	0.0024 mg/L	0.00122	50.04%
K 404.721†	144.2	0.6040 mg/L	0.41873	0.6040 mg/L	0.41873	69.32%
Mg 279.077†	123.8	0.0038 mg/L	0.00023	0.0038 mg/L	0.00023	6.18%

Mn	257.610†	QC value within limits for Mn 257.610	Recovery = Not calculated	0.00002	0.0001 mg/L	0.00002	15.74%
Mo	202.031†	QC value within limits for Mo 202.031	Recovery = Not calculated	0.00079	0.0035 mg/L	0.00079	22.74%
Ni	231.604†	QC value within limits for Ni 231.604	Recovery = Not calculated	0.00021	0.0000 mg/L	0.00021	>999.9%
Na	330.237†	QC value within limits for Na 330.237	Recovery = Not calculated	0.00040	0.0087 mg/L	0.00040	4.62%
Pb	220.353†	QC value within limits for Pb 220.353	Recovery = Not calculated	0.00050	-0.0010 mg/L	0.00050	50.75%
Sb	206.836†	QC value greater than the upper limit for Sb 206.836	Recovery = Not calculated	0.00100	0.0113 mg/L	0.00100	8.87%
Se	196.026†	QC value within limits for Se 196.026	Recovery = Not calculated	0.00064	0.0017 mg/L	0.00064	37.00%
Sn	189.927†	QC value within limits for Sn 189.927	Recovery = Not calculated	0.00152	0.0083 mg/L	0.00152	18.34%
Ti	337.279†	QC value within limits for Ti 337.279	Recovery = Not calculated	0.00010	0.0004 mg/L	0.00010	25.27%
Tl	190.801†	QC value within limits for Tl 190.801	Recovery = Not calculated	0.00160	0.0016 mg/L	0.00160	102.30%
V	292.402†	QC value within limits for V 292.402	Recovery = Not calculated	0.00005	0.0001 mg/L	0.00005	71.24%
Zn	206.200†	QC value within limits for Zn 206.200	Recovery = Not calculated	0.00000	0.0001 mg/L	0.00000	0.25%
Ca	227.546†	QC value within limits for Ca 227.546	Recovery = Not calculated	0.01772	0.0228 mg/L	0.01772	77.75%
Sr	460.733†	QC value within limits for Sr 460.733	Recovery = Not calculated	0.00007	-0.0014 mg/L	0.00007	4.69%

QC Failed. Continue with analysis.

Sequence No.: 25
 Sample ID: 1106753
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 48
 Date Collected: 7/3/2008 12:48:42 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106753

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7688794.4	1.016 mg/L		0.0076			0.74%
Ag 328.068†	188.9	0.0005 mg/L		0.00021			42.25%
Al 308.215†	247.3	0.0083 mg/L		0.00219			26.30%
As 188.979†	-1.3	-0.0005 mg/L		0.00130			237.83%
B 249.772†	6592.1	0.0345 mg/L		0.00101			2.91%
Ba 233.527†	227.3	0.0013 mg/L		0.00001			1.00%
Be 313.107†	108.2	0.0000 mg/L		0.00002			103.05%
Cd 226.502†	28.2	0.0001 mg/L		0.00002			15.25%
Co 228.616†	-4.5	-0.0001 mg/L		0.00002			28.27%
Cr 267.716†	56.5	0.0002 mg/L		0.00010			42.88%
Cu 324.752†	114579.4	0.4171 mg/L		0.00440			1.05%
Fe 238.863†	2614.2	0.0705 mg/L		0.00279			3.95%
K 404.721†	576.7	2.282 mg/L		0.1028			4.50%
Mg 279.077†	70558.9	2.167 mg/L		0.0198			0.91%
Mn 257.610†	3205.2	0.0036 mg/L		0.00001			0.32%
Mo 202.031†	63.3	0.0016 mg/L		0.00013			7.74%
Ni 231.604†	3.7	0.0000 mg/L		0.00010			310.58%
Na 330.237†	4068.2	3.056 mg/L		0.0263			0.86%
Pb 220.353†	3.1	0.0003 mg/L		0.00059			170.99%
Sb 206.836†	26.6	0.0042 mg/L		0.00196			46.15%
Se 196.026†	4.9	0.0025 mg/L		0.00154			61.96%
Sn 189.927†	-15.2	-0.0007 mg/L		0.00006			7.87%
Ti 337.279†	367.7	0.0004 mg/L		0.00003			6.45%
Tl 190.801†	2.7	0.0007 mg/L		0.00058			78.42%
V 292.402†	16.6	0.0001 mg/L		0.00000			1.40%
Zn 206.200†	4105.0	0.0459 mg/L		0.00024			0.52%
Ca 227.546†	5114.4	11.80 mg/L		0.112			0.95%
Sr 460.733†	47413.9	0.0511 mg/L		0.00019			0.36%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 26
 Sample ID: 1106754
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 49
 Date Collected: 7/3/2008 12:54:28 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106754

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7590806.7	1.003 mg/L	0.0042			0.41%
Ag 328.068†	257.1	0.0007 mg/L	0.00033			50.39%
Al 308.215†	404.5	0.0135 mg/L	0.00390			28.94%
As 188.979†	7.1	0.0010 mg/L	0.00033			31.71%
B 249.772†	12805.5	0.0677 mg/L	0.00077			1.14%
Ba 233.527†	516.1	0.0029 mg/L	0.00002			0.59%
Be 313.107†	-53.7	0.0000 mg/L	0.00001			856.17%
Cd 226.502†	26.2	0.0001 mg/L	0.00004			33.09%
Co 228.616†	-2.8	-0.0001 mg/L	0.00007			103.80%
Cr 267.716†	82.5	0.0003 mg/L	0.00007			21.33%
Cu 324.752†	1920.9	0.0069 mg/L	0.00011			1.66%
Fe 238.863†	601.5	0.0136 mg/L	0.00183			13.41%
K 404.721†	305.6	0.9668 mg/L	0.53803			55.65%
Mg 279.077†	112074.8	3.442 mg/L	0.0012			0.03%
Mn 257.610†	570.7	0.0006 mg/L	0.00001			1.16%
Mo 202.031†	103.8	0.0026 mg/L	0.00000			0.04%
Ni 231.604†	-36.6	-0.0004 mg/L	0.00012			31.58%
Na 330.237†	8925.7	6.706 mg/L	0.0240			0.36%
Pb 220.353†	-23.5	-0.0014 mg/L	0.00077			55.77%
Sb 206.836†	19.1	0.0031 mg/L	0.00036			11.72%
Se 196.026†	3.3	0.0016 mg/L	0.00119			75.03%
Sn 189.927†	-80.5	-0.0044 mg/L	0.00019			4.44%
Ti 337.279†	353.4	0.0003 mg/L	0.00003			10.00%
Tl 190.801†	-13.8	-0.0020 mg/L	0.00067			33.41%
V 292.402†	279.4	0.0017 mg/L	0.00001			0.76%
Zn 206.200†	461.8	0.0049 mg/L	0.00002			0.42%
Ca 227.546†	12004.7	27.70 mg/L	0.204			0.74%
Sr 460.733†	366122.6	0.3954 mg/L	0.00151			0.38%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 27
 Sample ID: 1106755
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 50
 Date Collected: 7/3/2008 1:00:13 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106755

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7594373.1	1.003 mg/L	0.0003			0.03%
Ag 328.068†	224.7	0.0006 mg/L	0.00011			17.92%
Al 308.215†	19.2	0.0005 mg/L	0.00050			109.39%
As 188.979†	3.5	0.0005 mg/L	0.00130			271.74%
B 249.772†	2424.3	0.0126 mg/L	0.00045			3.55%
Ba 233.527†	74.1	0.0004 mg/L	0.00000			0.44%
Be 313.107†	172.5	0.0000 mg/L	0.00000			2.17%
Cd 226.502†	13.0	0.0000 mg/L	0.00001			10.36%
Co 228.616†	-11.2	-0.0002 mg/L	0.00001			3.02%
Cr 267.716†	211.8	0.0008 mg/L	0.00001			1.62%
Cu 324.752†	1025.0	0.0037 mg/L	0.00034			9.44%
Fe 238.863†	3283.6	0.0884 mg/L	0.00071			0.81%
K 404.721†	223.3	0.7595 mg/L	0.47859			63.01%
Mg 279.077†	130493.0	4.008 mg/L	0.0270			0.67%
Mn 257.610†	2697.8	0.0030 mg/L	0.00000			0.14%
Mo 202.031†	48.9	0.0012 mg/L	0.00006			5.01%
Ni 231.604†	-26.8	-0.0003 mg/L	0.00006			20.59%
Na 330.237†	2684.3	2.020 mg/L	0.0244			1.21%
Pb 220.353†	-7.8	-0.0004 mg/L	0.00010			25.89%
Sb 206.836†	17.6	0.0028 mg/L	0.00062			22.05%

Se 196.026†	7.2	0.0037 mg/L	0.00307	83.57%
Sn 189.927†	-50.3	-0.0028 mg/L	0.00050	17.91%
Ti 337.279†	220.0	0.0002 mg/L	0.00012	52.20%
Tl 190.801†	-7.4	-0.0011 mg/L	0.00153	143.67%
V 292.402†	483.1	0.0029 mg/L	0.00004	1.43%
Zn 206.200†	1065.9	0.0117 mg/L	0.00001	0.04%
Ca 227.546†	6539.0	15.09 mg/L	0.016	0.10%
Sr 460.733†	29269.0	0.0315 mg/L	0.00030	0.94%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 28
 Sample ID: 1106756
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 51
 Date Collected: 7/3/2008 1:05:57 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106756

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7678260.8	1.014 mg/L	0.0025			0.25%
Ag 328.068†	259.5	0.0007 mg/L	0.00012			17.51%
Al 308.215†	156.3	0.0052 mg/L	0.00101			19.51%
As 188.979†	6.2	0.0011 mg/L	0.00164			142.31%
B 249.772†	2285.8	0.0117 mg/L	0.00016			1.36%
Ba 233.527†	389.8	0.0022 mg/L	0.00005			2.25%
Be 313.107†	294.8	0.0001 mg/L	0.00000			7.82%
Cd 226.502†	25.8	0.0001 mg/L	0.00001			9.74%
Co 228.616†	1.7	0.0000 mg/L	0.00012			791.26%
Cr 267.716†	252.6	0.0010 mg/L	0.00010			10.03%
Cu 324.752†	413.2	0.0014 mg/L	0.00019			13.33%
Fe 238.863†	4251.3	0.1151 mg/L	0.00190			1.65%
K 404.721†	253.8	0.9010 mg/L	0.47726			52.97%
Mg 279.077†	124026.6	3.809 mg/L	0.0293			0.77%
Mn 257.610†	1032.6	0.0011 mg/L	0.00002			2.09%
Mo 202.031†	36.0	0.0009 mg/L	0.00003			2.87%
Ni 231.604†	2.1	0.0000 mg/L	0.00000			29.64%
Na 330.237†	3315.5	2.493 mg/L	0.0107			0.43%
Pb 220.353†	-6.5	-0.0003 mg/L	0.00012			37.82%
Sb 206.836†	6.1	0.0010 mg/L	0.00018			18.62%
Se 196.026†	4.9	0.0025 mg/L	0.00217			87.85%
Sn 189.927†	-54.6	-0.0031 mg/L	0.00003			0.98%
Ti 337.279†	467.6	0.0005 mg/L	0.00001			2.63%
Tl 190.801†	-3.2	-0.0003 mg/L	0.00053			171.42%
V 292.402†	479.1	0.0029 mg/L	0.00001			0.26%
Zn 206.200†	365.3	0.0039 mg/L	0.00008			2.18%
Ca 227.546†	6022.5	13.90 mg/L	0.086			0.62%
Sr 460.733†	58442.9	0.0630 mg/L	0.00041			0.65%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 29
 Sample ID: 1106757
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 52
 Date Collected: 7/3/2008 1:11:40 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106757

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7628851.9	1.008 mg/L	0.0002			0.02%
Ag 328.068†	228.6	0.0006 mg/L	0.00050			86.10%
Al 308.215†	236.6	0.0078 mg/L	0.00098			12.63%
As 188.979†	5.4	0.0007 mg/L	0.00126			175.21%
B 249.772†	2885.5	0.0152 mg/L	0.00006			0.39%
Ba 233.527†	441.6	0.0025 mg/L	0.00010			4.12%
Be 313.107†	39.2	0.0000 mg/L	0.00001			44.97%
Cd 226.502†	5.4	0.0000 mg/L	0.00003			158.10%
Co 228.616†	-5.4	-0.0001 mg/L	0.00016			140.52%
Cr 267.716†	209.9	0.0008 mg/L	0.00004			4.22%

Cu 324.752†	597.8	0.0020 mg/L	0.00018	8.74%
Fe 238.863†	2890.6	0.0765 mg/L	0.00115	1.50%
K 404.721†	408.3	1.430 mg/L	0.5118	35.79%
Mg 279.077†	183130.8	5.625 mg/L	0.0044	0.08%
Mn 257.610†	70.0	0.0000 mg/L	0.00002	223.76%
Mo 202.031†	45.4	0.0011 mg/L	0.00017	15.39%
Ni 231.604†	-29.0	-0.0003 mg/L	0.00006	21.59%
Na 330.237†	8727.1	6.555 mg/L	0.0428	0.65%
Pb 220.353†	-16.9	-0.0010 mg/L	0.00084	88.43%
Sb 206.836†	10.0	0.0016 mg/L	0.00011	6.67%
Se 196.026†	6.4	0.0032 mg/L	0.00427	133.74%
Sn 189.927†	-95.4	-0.0054 mg/L	0.00053	9.82%
Ti 337.279†	193.8	0.0002 mg/L	0.00007	46.80%
Tl 190.801†	-7.5	-0.0009 mg/L	0.00066	74.16%
V 292.402†	519.6	0.0031 mg/L	0.00008	2.52%
Zn 206.200†	291.2	0.0029 mg/L	0.00001	0.49%
Ca 227.546†	10466.9	24.15 mg/L	0.034	0.14%
Sr 460.733†	92469.7	0.0997 mg/L	0.00049	0.50%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 30
Sample ID: 1106758
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 53
Date Collected: 7/3/2008 1:17:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 1106758

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7512272.1	0.9925 mg/L	0.00072			0.07%
Ag 328.068†	179.0	0.0004 mg/L	0.00016			35.39%
Al 308.215†	374.5	0.0125 mg/L	0.00095			7.59%
As 188.979†	5.4	0.0007 mg/L	0.00023			34.19%
B 249.772†	1442.9	0.0074 mg/L	0.00003			0.44%
Ba 233.527†	768.4	0.0044 mg/L	0.00003			0.65%
Be 313.107†	56.1	0.0000 mg/L	0.00001			60.59%
Cd 226.502†	3.1	0.0000 mg/L	0.00003			930.06%
Co 228.616†	-8.1	-0.0002 mg/L	0.00013			83.01%
Cr 267.716†	284.0	0.0011 mg/L	0.00005			4.45%
Cu 324.752†	2692.5	0.0097 mg/L	0.00046			4.73%
Fe 238.863†	4286.8	0.1145 mg/L	0.00102			0.89%
K 404.721†	455.6	1.599 mg/L	0.2729			17.06%
Mg 279.077†	215848.5	6.630 mg/L	0.1272			1.92%
Mn 257.610†	382.4	0.0003 mg/L	0.00001			2.77%
Mo 202.031†	38.7	0.0010 mg/L	0.00008			8.83%
Ni 231.604†	-22.3	-0.0002 mg/L	0.00016			69.59%
Na 330.237†	61964.1	46.48 mg/L	0.765			1.65%
Pb 220.353†	7.5	0.0008 mg/L	0.00005			5.98%
Sb 206.836†	5.1	0.0008 mg/L	0.00031			37.02%
Se 196.026†	6.9	0.0034 mg/L	0.00023			6.65%
Sn 189.927†	-111.1	-0.0063 mg/L	0.00019			3.08%
Ti 337.279†	464.3	0.0005 mg/L	0.00004			7.75%
Tl 190.801†	-18.5	-0.0029 mg/L	0.00097			33.57%
V 292.402†	821.0	0.0049 mg/L	0.00002			0.45%
Zn 206.200†	366.3	0.0037 mg/L	0.00004			1.07%
Ca 227.546†	11518.9	26.58 mg/L	0.033			0.12%
Sr 460.733†	101840.9	0.1098 mg/L	0.00211			1.92%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 31
Sample ID: 1106759
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 7/3/2008 1:23:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 1106759

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
---------	--------------------------	-------------------	----------	--------------------	----------	-----

Y 371.029	7691268.5	1.016 mg/L	0.0037	0.36%
Ag 328.068†	250.2	0.0007 mg/L	0.00005	7.48%
Al 308.215†	2225.7	0.0759 mg/L	0.00080	1.05%
As 188.979†	-4.8	-0.0015 mg/L	0.00124	84.17%
B 249.772†	1206.4	0.0055 mg/L	0.00028	5.05%
Ba 233.527†	256.9	0.0014 mg/L	0.00004	2.63%
Be 313.107†	153.8	0.0000 mg/L	0.00002	47.79%
Cd 226.502†	17.8	0.0001 mg/L	0.00004	71.08%
Co 228.616†	3.5	0.0000 mg/L	0.00005	134.86%
Cr 267.716†	158.0	0.0006 mg/L	0.00016	25.24%
Cu 324.752†	3499.3	0.0127 mg/L	0.00024	1.86%
Fe 238.863†	10037.7	0.2737 mg/L	0.00268	0.98%
K 404.721†	289.3	0.9719 mg/L	0.49551	50.98%
Mg 279.077†	93636.8	2.876 mg/L	0.0206	0.72%
Mn 257.610†	2188.1	0.0024 mg/L	0.00000	0.16%
Mo 202.031†	20.9	0.0005 mg/L	0.00004	7.45%
Ni 231.604†	7.5	0.0001 mg/L	0.00010	166.17%
Na 330.237†	3238.9	2.440 mg/L	0.0208	0.85%
Pb 220.353†	39.6	0.0030 mg/L	0.00017	5.54%
Sb 206.836†	6.9	0.0011 mg/L	0.00061	54.27%
Se 196.026†	3.3	0.0017 mg/L	0.00013	7.55%
Sn 189.927†	-73.9	-0.0041 mg/L	0.00014	3.31%
Ti 337.279†	1065.9	0.0013 mg/L	0.00010	7.69%
Tl 190.801†	-3.3	-0.0002 mg/L	0.00049	281.89%
V 292.402†	91.3	0.0006 mg/L	0.00007	12.27%
Zn 206.200†	1719.3	0.0190 mg/L	0.00008	0.44%
Ca 227.546†	9286.8	21.43 mg/L	0.064	0.30%
Sr 460.733†	108879.4	0.1174 mg/L	0.00033	0.28%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 32
 Sample ID: 1106760
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 55
 Date Collected: 7/3/2008 1:28:52 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106760

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7393826.2	0.9768 mg/L	0.00134			0.14%
Ag 328.068†	263.0	0.0006 mg/L	0.00033			57.91%
Al 308.215†	298.5	0.0093 mg/L	0.00276			29.63%
As 188.979†	-6.1	-0.0029 mg/L	0.00087			29.96%
B 249.772†	3273.9	0.0178 mg/L	0.00009			0.48%
Ba 233.527†	572.0	0.0032 mg/L	0.00004			1.21%
Be 313.107†	-205.9	0.0000 mg/L	0.00000			22.15%
Cd 226.502†	9.5	0.0000 mg/L	0.00005			127.35%
Co 228.616†	-0.3	-0.0001 mg/L	0.00009			171.22%
Cr 267.716†	415.8	0.0017 mg/L	0.00002			0.96%
Cu 324.752†	1248.9	0.0042 mg/L	0.00001			0.20%
Fe 238.863†	2171.7	0.0518 mg/L	0.00029			0.56%
K 404.721†	3236.1	12.79 mg/L	0.394			3.08%
Mg 279.077†	462838.2	14.22 mg/L	0.006			0.04%
Mn 257.610†	427.9	0.0003 mg/L	0.00000			1.53%
Mo 202.031†	34.0	0.0008 mg/L	0.00003			3.44%
Ni 231.604†	-23.3	-0.0003 mg/L	0.00012			48.43%
Na 330.237†	86167.4	64.64 mg/L	0.253			0.39%
Pb 220.353†	0.2	0.0007 mg/L	0.00029			41.75%
Sb 206.836†	6.4	0.0011 mg/L	0.00028			25.46%
Se 196.026†	10.9	0.0053 mg/L	0.00240			45.64%
Sn 189.927†	-187.7	-0.0103 mg/L	0.00014			1.32%
Ti 337.279†	136.2	-0.0001 mg/L	0.00004			43.38%
Tl 190.801†	-29.5	-0.0041 mg/L	0.00004			0.95%
V 292.402†	190.7	0.0012 mg/L	0.00002			1.75%
Zn 206.200†	380.8	0.0034 mg/L	0.00005			1.35%
Ca 227.546†	28986.5	66.89 mg/L	0.009			0.01%
Sr 460.733†	256088.8	0.2760 mg/L	0.00139			0.50%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 33
 Sample ID: 1106761
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 56
 Date Collected: 7/3/2008 1:35:19 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

 Mean Data: 1106761

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7695430.3	1.017	mg/L	0.0033			0.33%
Ag 328.068†	52.4	0.0001	mg/L	0.00003			29.02%
Al 308.215†	295.4	0.0099	mg/L	0.00149			15.05%
As 188.979†	3.0	0.0004	mg/L	0.00172			488.38%
B 249.772†	1633.8	0.0087	mg/L	0.00001			0.07%
Ba 233.527†	32.9	0.0002	mg/L	0.00001			2.91%
Be 313.107†	293.2	0.0001	mg/L	0.00001			20.54%
Cd 226.502†	-0.7	0.0000	mg/L	0.00003			584.08%
Co 228.616†	-0.8	0.0000	mg/L	0.00014			552.65%
Cr 267.716†	92.6	0.0004	mg/L	0.00006			17.10%
Cu 324.752†	1361.7	0.0049	mg/L	0.00007			1.44%
Fe 238.863†	1153.0	0.0301	mg/L	0.00028			0.94%
K 404.721†	205.3	0.6795	mg/L	0.34663			51.01%
Mg 279.077†	55462.8	1.703	mg/L	0.0078			0.46%
Mn 257.610†	713.7	0.0008	mg/L	0.00002			2.49%
Mo 202.031†	17.8	0.0004	mg/L	0.00030			69.97%
Ni 231.604†	-29.1	-0.0003	mg/L	0.00000			1.32%
Na 330.237†	10310.0	7.738	mg/L	0.1025			1.32%
Pb 220.353†	-12.6	-0.0007	mg/L	0.00052			72.42%
Sb 206.836†	4.7	0.0008	mg/L	0.00014			18.03%
Se 196.026†	7.0	0.0035	mg/L	0.00066			18.71%
Sn 189.927†	-75.5	-0.0043	mg/L	0.00017			4.02%
Ti 337.279†	475.5	0.0005	mg/L	0.00011			19.73%
Tl 190.801†	-4.7	-0.0006	mg/L	0.00028			50.84%
V 292.402†	385.0	0.0023	mg/L	0.00011			4.61%
Zn 206.200†	403.5	0.0044	mg/L	0.00017			3.81%
Ca 227.546†	6973.7	16.09	mg/L	0.038			0.23%
Sr 460.733†	5375.8	0.0056	mg/L	0.00024			4.30%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

=====
 Sequence No.: 34
 Sample ID: 1106762
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 57
 Date Collected: 7/3/2008 1:41:04 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

 Mean Data: 1106762

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7596701.9	1.004	mg/L	0.0008			0.08%
Ag 328.068†	75.7	0.0002	mg/L	0.00025			146.04%
Al 308.215†	508.0	0.0171	mg/L	0.00191			11.18%
As 188.979†	7.3	0.0012	mg/L	0.00162			130.43%
B 249.772†	4751.1	0.0246	mg/L	0.00007			0.30%
Ba 233.527†	368.5	0.0021	mg/L	0.00001			0.27%
Be 313.107†	21.5	0.0000	mg/L	0.00000			18.06%
Cd 226.502†	14.9	0.0001	mg/L	0.00004			76.68%
Co 228.616†	-7.4	-0.0001	mg/L	0.00016			103.93%
Cr 267.716†	152.9	0.0006	mg/L	0.00017			27.99%
Cu 324.752†	938.7	0.0033	mg/L	0.00025			7.51%
Fe 238.863†	6461.5	0.1749	mg/L	0.00071			0.41%
K 404.721†	301.0	1.004	mg/L	0.2546			25.36%
Mg 279.077†	167807.1	5.154	mg/L	0.0003			0.01%
Mn 257.610†	884.2	0.0009	mg/L	0.00001			0.96%
Mo 202.031†	69.3	0.0018	mg/L	0.00012			6.86%
Ni 231.604†	-48.7	-0.0005	mg/L	0.00007			14.84%
Na 330.237†	18246.3	13.69	mg/L	0.072			0.52%
Pb 220.353†	-9.9	-0.0005	mg/L	0.00003			6.19%
Sb 206.836†	7.0	0.0011	mg/L	0.00058			50.93%
Se 196.026†	7.2	0.0036	mg/L	0.00115			31.82%

Sn 189.927†	-102.2	-0.0058 mg/L	0.00022	3.85%
Ti 337.279†	229.2	0.0002 mg/L	0.00004	17.98%
Tl 190.801†	-10.5	-0.0015 mg/L	0.00156	104.51%
V 292.402†	575.3	0.0035 mg/L	0.00001	0.33%
Zn 206.200†	1373.2	0.0151 mg/L	0.00010	0.66%
Ca 227.546†	9648.7	22.27 mg/L	0.012	0.05%
Sr 460.733†	108781.3	0.1173 mg/L	0.00017	0.14%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 35

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 7/3/2008 1:46:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7569057.6	1.0000 mg/L	0.00208			0.21%
Ag 328.068†	181378.5	0.5081 mg/L	0.00212	0.5081 mg/L	0.00212	0.42%
QC value within limits for Ag		328.068 Recovery = 101.62%				
Al 308.215†	289019.2	9.891 mg/L	0.0202	9.891 mg/L	0.0202	0.20%
QC value within limits for Al		308.215 Recovery = 98.91%				
As 188.979†	4455.8	1.027 mg/L	0.0003	1.027 mg/L	0.0003	0.03%
QC value within limits for As		188.979 Recovery = 102.70%				
B 249.772†	466456.6	2.434 mg/L	0.0266	2.434 mg/L	0.0266	1.09%
QC value within limits for B		249.772 Recovery = 97.36%				
Ba 233.527†	1786644.2	10.25 mg/L	0.004	10.25 mg/L	0.004	0.04%
QC value within limits for Ba		233.527 Recovery = 102.45%				
Be 313.107†	1490901.6	0.2577 mg/L	0.00007	0.2577 mg/L	0.00007	0.03%
QC value within limits for Be		313.107 Recovery = 103.06%				
Cd 226.502†	113358.5	0.5087 mg/L	0.00154	0.5087 mg/L	0.00154	0.30%
QC value within limits for Cd		226.502 Recovery = 101.74%				
Co 228.616†	150038.0	2.579 mg/L	0.0055	2.579 mg/L	0.0055	0.22%
QC value within limits for Co		228.616 Recovery = 103.15%				
Cr 267.716†	129977.8	0.5122 mg/L	0.00133	0.5122 mg/L	0.00133	0.26%
QC value within limits for Cr		267.716 Recovery = 102.44%				
Cu 324.752†	338942.7	1.234 mg/L	0.0056	1.234 mg/L	0.0056	0.46%
QC value within limits for Cu		324.752 Recovery = 98.74%				
Fe 238.863†	184402.1	5.063 mg/L	0.0183	5.063 mg/L	0.0183	0.36%
QC value within limits for Fe		238.863 Recovery = 101.25%				
K 404.721†	5690.1	23.52 mg/L	0.034	23.52 mg/L	0.034	0.14%
QC value within limits for K		404.721 Recovery = 94.07%				
Mg 279.077†	839777.8	25.80 mg/L	0.025	25.80 mg/L	0.025	0.10%
QC value within limits for Mg		279.077 Recovery = 103.19%				
Mn 257.610†	680857.0	0.7632 mg/L	0.00155	0.7632 mg/L	0.00155	0.20%
QC value within limits for Mn		257.610 Recovery = 101.77%				
Mo 202.031†	95983.9	2.479 mg/L	0.0241	2.479 mg/L	0.0241	0.97%
QC value within limits for Mo		202.031 Recovery = 99.15%				
Ni 231.604†	211939.1	2.075 mg/L	0.0067	2.075 mg/L	0.0067	0.32%
QC value within limits for Ni		231.604 Recovery = 103.77%				
Na 330.237†	31816.2	23.89 mg/L	0.045	23.89 mg/L	0.045	0.19%
QC value within limits for Na		330.237 Recovery = 95.56%				
Pb 220.353†	7382.2	0.5265 mg/L	0.00137	0.5265 mg/L	0.00137	0.26%
QC value within limits for Pb		220.353 Recovery = 105.30%				
Sb 206.836†	31700.2	5.026 mg/L	0.0252	5.026 mg/L	0.0252	0.50%
QC value within limits for Sb		206.836 Recovery = 100.51%				
Se 196.026†	984.5	0.5093 mg/L	0.00171	0.5093 mg/L	0.00171	0.34%
QC value within limits for Se		196.026 Recovery = 101.87%				
Sn 189.927†	87110.7	5.175 mg/L	0.0209	5.175 mg/L	0.0209	0.40%
QC value within limits for Sn		189.927 Recovery = 103.51%				
Ti 337.279†	1982330.8	2.543 mg/L	0.0000	2.543 mg/L	0.0000	0.00%
QC value within limits for Ti		337.279 Recovery = 101.73%				
Tl 190.801†	5847.1	1.082 mg/L	0.0032	1.082 mg/L	0.0032	0.30%
QC value within limits for Tl		190.801 Recovery = 108.21%				
V 292.402†	426177.2	2.538 mg/L	0.0021	2.538 mg/L	0.0021	0.08%
QC value within limits for V		292.402 Recovery = 101.52%				
Zn 206.200†	90369.5	1.011 mg/L	0.0037	1.011 mg/L	0.0037	0.36%
QC value within limits for Zn		206.200 Recovery = 101.15%				
Ca 227.546†	10733.9	24.85 mg/L	0.014	24.85 mg/L	0.014	0.05%

QC value within limits for Ca 227.546 Recovery = 99.39%
 Sr 460.733† 2216751.0 2.396 mg/L 0.0003 2.396 mg/L 0.0003 0.01%
 QC value within limits for Sr 460.733 Recovery = 95.83%
 All analyte(s) passed QC.

Sequence No.: 36
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 7/3/2008 1:52:39 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	7801829.4	1.031 mg/L		0.0073				0.71%
Ag 328.068†	214.5	0.0006 mg/L		0.00036	0.0006 mg/L		0.00036	59.26%
Al 308.215†	119.9	0.0041 mg/L		0.00122	0.0041 mg/L		0.00122	29.81%
As 188.979†	4.6	0.0011 mg/L		0.00123	0.0011 mg/L		0.00123	116.19%
B 249.772†	4662.5	0.0245 mg/L		0.00282	0.0245 mg/L		0.00282	11.52%
Ba 233.527†	97.4	0.0006 mg/L		0.00008	0.0006 mg/L		0.00008	14.87%
Be 313.107†	326.4	0.0001 mg/L		0.00000	0.0001 mg/L		0.00000	8.03%
Cd 226.502†	36.2	0.0002 mg/L		0.00006	0.0002 mg/L		0.00006	39.34%
Co 228.616†	19.2	0.0003 mg/L		0.00012	0.0003 mg/L		0.00012	34.95%
Cr 267.716†	-67.3	-0.0003 mg/L		0.00004	-0.0003 mg/L		0.00004	13.41%
Cu 324.752†	276.4	0.0010 mg/L		0.00011	0.0010 mg/L		0.00011	11.10%
Fe 238.863†	74.6	0.0020 mg/L		0.00156	0.0020 mg/L		0.00156	76.15%
K 404.721†	99.7	0.4178 mg/L		0.23600	0.4178 mg/L		0.23600	56.48%
Mg 279.077†	133.0	0.0041 mg/L		0.00096	0.0041 mg/L		0.00096	23.49%
Mn 257.610†	20.9	0.0000 mg/L		0.00003	0.0000 mg/L		0.00003	133.12%
Mo 202.031†	127.6	0.0033 mg/L		0.00106	0.0033 mg/L		0.00106	32.28%
Ni 231.604†	-1.3	0.0000 mg/L		0.00028	0.0000 mg/L		0.00028	>999.9%
Na 330.237†	-7.9	-0.0059 mg/L		0.00776	-0.0059 mg/L		0.00776	131.51%
Pb 220.353†	-10.0	-0.0007 mg/L		0.00030	-0.0007 mg/L		0.00030	42.63%
Sb 206.836†	61.8	0.0098 mg/L		0.00182	0.0098 mg/L		0.00182	18.60%
Se 196.026†	2.2	0.0011 mg/L		0.00128	0.0011 mg/L		0.00128	112.42%
Sn 189.927†	114.6	0.0068 mg/L		0.00125	0.0068 mg/L		0.00125	18.30%
Ti 337.279†	340.5	0.0004 mg/L		0.00026	0.0004 mg/L		0.00026	59.54%
Tl 190.801†	8.6	0.0016 mg/L		0.00028	0.0016 mg/L		0.00028	17.77%
V 292.402†	-0.5	0.0000 mg/L		0.00002	0.0000 mg/L		0.00002	632.83%
Zn 206.200†	9.5	0.0001 mg/L		0.00007	0.0001 mg/L		0.00007	65.07%
Ca 227.546†	8.9	0.0206 mg/L		0.00196	0.0206 mg/L		0.00196	9.52%
Sr 460.733†	-1071.2	-0.0012 mg/L		0.00032	-0.0012 mg/L		0.00032	27.80%

All analyte(s) passed QC.

Sequence No.: 37
 Sample ID: 1106763
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 58
 Date Collected: 7/3/2008 1:58:20 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106763

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7655122.2	1.011	mg/L	0.0033			0.33%
Ag 328.068†	171.1	0.0005	mg/L	0.00038			79.21%
Al 308.215†	192.0	0.0064	mg/L	0.00037			5.74%
As 188.979†	10.4	0.0023	mg/L	0.00103			45.66%
B 249.772†	3730.9	0.0177	mg/L	0.00124			6.99%
Ba 233.527†	148.0	0.0008	mg/L	0.00001			0.63%
Be 313.107†	175.7	0.0000	mg/L	0.00001			28.77%
Cd 226.502†	22.6	0.0001	mg/L	0.00009			179.76%
Co 228.616†	3.3	0.0000	mg/L	0.00004			152.70%
Cr 267.716†	289.6	0.0012	mg/L	0.00001			0.98%
Cu 324.752†	4504.9	0.0164	mg/L	0.00001			0.06%
Fe 238.863†	18443.7	0.5052	mg/L	0.00400			0.79%
K 404.721†	114.6	0.3158	mg/L	0.41881			132.61%
Mg 279.077†	131335.6	4.034	mg/L	0.0049			0.12%
Mn 257.610†	28441.8	0.0318	mg/L	0.00013			0.40%
Mo 202.031†	65.7	0.0017	mg/L	0.00034			20.41%
Ni 231.604†	13.5	0.0001	mg/L	0.00016			131.81%
Na 330.237†	2586.7	1.948	mg/L	0.0602			3.09%
Pb 220.353†	-5.5	-0.0003	mg/L	0.00014			56.64%
Sb 206.836†	24.8	0.0040	mg/L	0.00029			7.38%
Se 196.026†	6.9	0.0036	mg/L	0.00144			39.48%
Sn 189.927†	-12.8	-0.0006	mg/L	0.00039			66.61%
Ti 337.279†	199.5	0.0002	mg/L	0.00007			33.57%
Tl 190.801†	-5.7	-0.0007	mg/L	0.00026			35.13%
V 292.402†	446.6	0.0027	mg/L	0.00001			0.26%
Zn 206.200†	363.1	0.0038	mg/L	0.00005			1.31%
Ca 227.546†	6238.8	14.40	mg/L	0.035			0.24%
Sr 460.733†	26826.0	0.0288	mg/L	0.00032			1.10%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 38
 Sample ID: 1106764
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 59
 Date Collected: 7/3/2008 2:04:02 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106764

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7516152.6	0.9930	mg/L	0.00662			0.67%
Ag 328.068†	167.2	0.0003	mg/L	0.00007			22.49%
Al 308.215†	1604.1	0.0541	mg/L	0.00116			2.15%
As 188.979†	7.0	0.0003	mg/L	0.00190			626.33%
B 249.772†	3670.8	0.0197	mg/L	0.00052			2.65%
Ba 233.527†	1734.1	0.0099	mg/L	0.00007			0.74%
Be 313.107†	-156.7	0.0000	mg/L	0.00001			73.19%
Cd 226.502†	14.2	0.0001	mg/L	0.00007			113.43%
Co 228.616†	0.0	0.0000	mg/L	0.00010			251.87%
Cr 267.716†	124.1	0.0005	mg/L	0.00004			8.18%
Cu 324.752†	494.3	0.0015	mg/L	0.00009			6.00%
Fe 238.863†	2618.9	0.0650	mg/L	0.00315			4.85%
K 404.721†	779.4	2.584	mg/L	0.5795			22.43%
Mg 279.077†	409315.0	12.57	mg/L	0.033			0.26%
Mn 257.610†	11925.0	0.0132	mg/L	0.00004			0.31%
Mo 202.031†	48.4	0.0011	mg/L	0.00024			20.64%
Ni 231.604†	-27.8	-0.0003	mg/L	0.00000			0.21%
Na 330.237†	26748.7	20.08	mg/L	0.046			0.23%
Pb 220.353†	-25.7	-0.0012	mg/L	0.00068			55.58%

Sb 206.836†	4.9	0.0008 mg/L	0.00079	93.07%
Se 196.026†	4.5	0.0020 mg/L	0.00146	71.38%
Sn 189.927†	-152.2	-0.0083 mg/L	0.00006	0.74%
Ti 337.279†	3065.7	0.0037 mg/L	0.00001	0.31%
Tl 190.801†	-19.6	-0.0024 mg/L	0.00109	44.71%
V 292.402†	137.3	0.0008 mg/L	0.00003	3.01%
Zn 206.200†	277.4	0.0023 mg/L	0.00005	2.05%
Ca 227.546†	25517.2	58.88 mg/L	0.291	0.49%
Sr 460.733†	246411.4	0.2656 mg/L	0.00076	0.28%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 39
 Sample ID: 1106766
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 60
 Date Collected: 7/3/2008 2:09:50 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106766

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7680333.0	1.015 mg/L	0.0071			0.70%
Ag 328.068†	329.3	0.0009 mg/L	0.00021			23.93%
Al 308.215†	1320.2	0.0449 mg/L	0.00270			6.02%
As 188.979†	1.0	-0.0002 mg/L	0.00079			386.98%
B 249.772†	2087.3	0.0106 mg/L	0.00036			3.41%
Ba 233.527†	611.4	0.0035 mg/L	0.00000			0.09%
Be 313.107†	95.1	0.0000 mg/L	0.00002			73.67%
Cd 226.502†	31.6	0.0001 mg/L	0.00002			16.67%
Co 228.616†	-2.3	-0.0001 mg/L	0.00002			41.49%
Cr 267.716†	166.8	0.0007 mg/L	0.00002			3.14%
Cu 324.752†	331.0	0.0011 mg/L	0.00001			0.70%
Fe 238.863†	5737.6	0.1550 mg/L	0.00443			2.86%
K 404.721†	337.8	1.167 mg/L	0.2938			25.17%
Mg 279.077†	190011.3	5.836 mg/L	0.0667			1.14%
Mn 257.610†	13925.0	0.0155 mg/L	0.00005			0.33%
Mo 202.031†	28.7	0.0007 mg/L	0.00009			12.31%
Ni 231.604†	-32.8	-0.0003 mg/L	0.00004			13.18%
Na 330.237†	15590.5	11.70 mg/L	0.186			1.59%
Pb 220.353†	13.8	0.0008 mg/L	0.00043			56.72%
Sb 206.836†	11.0	0.0018 mg/L	0.00066			37.20%
Se 196.026†	4.3	0.0021 mg/L	0.00165			77.57%
Sn 189.927†	-83.2	-0.0047 mg/L	0.00007			1.42%
Ti 337.279†	1627.4	0.0020 mg/L	0.00001			0.54%
Tl 190.801†	-4.3	-0.0004 mg/L	0.00059			161.68%
V 292.402†	192.0	0.0012 mg/L	0.00007			5.83%
Zn 206.200†	217.5	0.0021 mg/L	0.00004			2.13%
Ca 227.546†	9183.0	21.19 mg/L	0.109			0.52%
Sr 460.733†	50205.5	0.0540 mg/L	0.00059			1.10%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 40
 Sample ID: 1106768
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 61
 Date Collected: 7/3/2008 2:15:32 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1106768

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7655495.0	1.011 mg/L	0.0083			0.83%
Ag 328.068†	195.0	0.0005 mg/L	0.00009			16.70%
Al 308.215†	175.0	0.0057 mg/L	0.00153			26.77%
As 188.979†	12.2	0.0024 mg/L	0.00060			24.68%
B 249.772†	3998.1	0.0201 mg/L	0.00022			1.09%
Ba 233.527†	365.7	0.0021 mg/L	0.00005			2.30%
Be 313.107†	205.5	0.0000 mg/L	0.00002			56.24%
Cd 226.502†	22.6	0.0001 mg/L	0.00006			84.18%
Co 228.616†	-2.2	-0.0001 mg/L	0.00010			154.89%

QC value within limits for Se 196.026 Recovery = 103.56%
 Sn 189.927† 87910.4 5.223 mg/L 0.0013 5.223 mg/L 0.0013 0.03%
 QC value within limits for Sn 189.927 Recovery = 104.46%
 Ti 337.279† 1988988.8 2.552 mg/L 0.0019 2.552 mg/L 0.0019 0.08%
 QC value within limits for Ti 337.279 Recovery = 102.07%
 Tl 190.801† 5907.8 1.093 mg/L 0.0010 1.093 mg/L 0.0010 0.09%
 QC value within limits for Tl 190.801 Recovery = 109.33%
 V 292.402† 430699.2 2.565 mg/L 0.0075 2.565 mg/L 0.0075 0.29%
 QC value within limits for V 292.402 Recovery = 102.60%
 Zn 206.200† 90828.7 1.017 mg/L 0.0026 1.017 mg/L 0.0026 0.25%
 QC value within limits for Zn 206.200 Recovery = 101.66%
 Ca 227.546† 10820.7 25.05 mg/L 0.038 25.05 mg/L 0.038 0.15%
 QC value within limits for Ca 227.546 Recovery = 100.19%
 Sr 460.733† 2223685.7 2.403 mg/L 0.0062 2.403 mg/L 0.0062 0.26%
 QC value within limits for Sr 460.733 Recovery = 96.13%
 All analyte(s) passed QC.

Sequence No.: 42
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 7/3/2008 2:27:08 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7752916.6	1.024 mg/L	0.0098			0.96%
Ag 328.068†	204.5	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	10.43%
QC value within limits for Ag 328.068			Recovery = Not calculated			
Al 308.215†	198.7	0.0068 mg/L	0.00199	0.0068 mg/L	0.00199	29.23%
QC value within limits for Al 308.215			Recovery = Not calculated			
As 188.979†	6.2	0.0014 mg/L	0.00169	0.0014 mg/L	0.00169	119.30%
QC value within limits for As 188.979			Recovery = Not calculated			
B 249.772†	4964.4	0.0261 mg/L	0.00344	0.0261 mg/L	0.00344	13.16%
QC value within limits for B 249.772			Recovery = Not calculated			
Ba 233.527†	116.5	0.0007 mg/L	0.00008	0.0007 mg/L	0.00008	11.84%
QC value within limits for Ba 233.527			Recovery = Not calculated			
Be 313.107†	256.7	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	3.88%
QC value within limits for Be 313.107			Recovery = Not calculated			
Cd 226.502†	29.5	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	32.80%
QC value within limits for Cd 226.502			Recovery = Not calculated			
Co 228.616†	14.7	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	6.75%
QC value within limits for Co 228.616			Recovery = Not calculated			
Cr 267.716†	-80.9	-0.0003 mg/L	0.00012	-0.0003 mg/L	0.00012	36.34%
QC value within limits for Cr 267.716			Recovery = Not calculated			
Cu 324.752†	294.4	0.0011 mg/L	0.00015	0.0011 mg/L	0.00015	13.95%
QC value within limits for Cu 324.752			Recovery = Not calculated			
Fe 238.863†	204.3	0.0056 mg/L	0.00313	0.0056 mg/L	0.00313	55.68%
QC value within limits for Fe 238.863			Recovery = Not calculated			
K 404.721†	91.9	0.3847 mg/L	0.40272	0.3847 mg/L	0.40272	104.68%
QC value within limits for K 404.721			Recovery = Not calculated			
Mg 279.077†	78.8	0.0024 mg/L	0.00156	0.0024 mg/L	0.00156	64.20%
QC value within limits for Mg 279.077			Recovery = Not calculated			
Mn 257.610†	-20.4	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	44.80%
QC value within limits for Mn 257.610			Recovery = Not calculated			
Mo 202.031†	136.0	0.0035 mg/L	0.00105	0.0035 mg/L	0.00105	29.77%
QC value within limits for Mo 202.031			Recovery = Not calculated			
Ni 231.604†	-5.6	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011	208.05%
QC value within limits for Ni 231.604			Recovery = Not calculated			
Na 330.237†	-34.1	-0.0256 mg/L	0.02500	-0.0256 mg/L	0.02500	97.86%
QC value within limits for Na 330.237			Recovery = Not calculated			
Pb 220.353†	-16.9	-0.0012 mg/L	0.00017	-0.0012 mg/L	0.00017	14.03%
QC value within limits for Pb 220.353			Recovery = Not calculated			
Sb 206.836†	69.7	0.0111 mg/L	0.00164	0.0111 mg/L	0.00164	14.84%
QC value greater than the upper limit for Sb 206.836			Recovery = Not calculated			
Se 196.026†	4.8	0.0025 mg/L	0.00015	0.0025 mg/L	0.00015	6.20%
QC value within limits for Se 196.026			Recovery = Not calculated			
Sn 189.927†	112.6	0.0067 mg/L	0.00111	0.0067 mg/L	0.00111	16.52%
QC value within limits for Sn 189.927			Recovery = Not calculated			
Ti 337.279†	342.8	0.0004 mg/L	0.00006	0.0004 mg/L	0.00006	14.26%

QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 190.801† 12.4 0.0023 mg/L 0.00122 0.0023 mg/L 0.00122 53.31%
 QC value within limits for Tl 190.801 Recovery = Not calculated
 V 292.402† 7.3 0.0000 mg/L 0.00001 0.0000 mg/L 0.00001 27.95%
 QC value within limits for V 292.402 Recovery = Not calculated
 Zn 206.200† 17.4 0.0002 mg/L 0.00006 0.0002 mg/L 0.00006 28.85%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Ca 227.546† 13.5 0.0313 mg/L 0.00313 0.0313 mg/L 0.00313 9.99%
 QC value within limits for Ca 227.546 Recovery = Not calculated
 Sr 460.733† -1205.0 -0.0013 mg/L 0.00005 -0.0013 mg/L 0.00005 3.86%
 QC value within limits for Sr 460.733 Recovery = Not calculated
 QC Failed. Continue with analysis.

Sequence No.: 43
 Sample ID: MRL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 7/3/2008 2:32:53 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7737644.9	1.022 mg/L	0.0096			0.94%
Ag 328.068†	3898.6	0.0109 mg/L	0.00009	0.0109 mg/L	0.00009	0.78%
QC value within limits for Ag 328.068		Recovery = 109.20%				
Al 308.215†	5893.1	0.2017 mg/L	0.00399	0.2017 mg/L	0.00399	1.98%
QC value within limits for Al 308.215		Recovery = 100.84%				
As 188.979†	94.4	0.0218 mg/L	0.00208	0.0218 mg/L	0.00208	9.58%
QC value within limits for As 188.979		Recovery = 108.75%				
B 249.772†	39346.1	0.2066 mg/L	0.00186	0.2066 mg/L	0.00186	0.90%
QC value within limits for B 249.772		Recovery = 103.30%				
Ba 233.527†	37138.7	0.2130 mg/L	0.00111	0.2130 mg/L	0.00111	0.52%
QC value within limits for Ba 233.527		Recovery = 106.48%				
Be 313.107†	29199.8	0.0050 mg/L	0.00001	0.0050 mg/L	0.00001	0.13%
QC value within limits for Be 313.107		Recovery = 100.93%				
Cd 226.502†	2306.7	0.0104 mg/L	0.00008	0.0104 mg/L	0.00008	0.75%
QC value within limits for Cd 226.502		Recovery = 103.50%				
Co 228.616†	3049.9	0.0524 mg/L	0.00043	0.0524 mg/L	0.00043	0.82%
QC value within limits for Co 228.616		Recovery = 104.84%				
Cr 267.716†	2595.7	0.0102 mg/L	0.00023	0.0102 mg/L	0.00023	2.25%
QC value within limits for Cr 267.716		Recovery = 102.30%				
Cu 324.752†	6837.2	0.0249 mg/L	0.00029	0.0249 mg/L	0.00029	1.18%
QC value within limits for Cu 324.752		Recovery = 99.57%				
Fe 238.863†	4205.3	0.1153 mg/L	0.00032	0.1153 mg/L	0.00032	0.27%
QC value within limits for Fe 238.863		Recovery = 115.34%				
K 404.721†	456.5	1.900 mg/L	0.0145	1.900 mg/L	0.0145	0.76%
QC value greater than the upper limit for K 404.721		Recovery = 189.98%				
Mg 279.077†	34297.4	1.054 mg/L	0.0004	1.054 mg/L	0.0004	0.04%
QC value within limits for Mg 279.077		Recovery = 105.35%				
Mn 257.610†	14036.6	0.0157 mg/L	0.00002	0.0157 mg/L	0.00002	0.15%
QC value within limits for Mn 257.610		Recovery = 104.84%				
Mo 202.031†	1003.1	0.0259 mg/L	0.00024	0.0259 mg/L	0.00024	0.92%
QC value within limits for Mo 202.031		Recovery = 103.62%				
Ni 231.604†	4271.2	0.0418 mg/L	0.00017	0.0418 mg/L	0.00017	0.41%
QC value within limits for Ni 231.604		Recovery = 104.57%				
Na 330.237†	981.3	0.7368 mg/L	0.07849	0.7368 mg/L	0.07849	10.65%
QC value less than the lower limit for Na 330.237		Recovery = 73.68%				
Pb 220.353†	143.8	0.0103 mg/L	0.00036	0.0103 mg/L	0.00036	3.48%
QC value within limits for Pb 220.353		Recovery = 102.62%				
Sb 206.836†	393.0	0.0623 mg/L	0.00098	0.0623 mg/L	0.00098	1.57%
QC value within limits for Sb 206.836		Recovery = 103.83%				
Se 196.026†	22.1	0.0114 mg/L	0.00118	0.0114 mg/L	0.00118	10.34%
QC value within limits for Se 196.026		Recovery = 114.31%				
Sn 189.927†	8867.9	0.5269 mg/L	0.00451	0.5269 mg/L	0.00451	0.86%
QC value within limits for Sn 189.927		Recovery = 105.38%				
Ti 337.279†	39155.2	0.0502 mg/L	0.00018	0.0502 mg/L	0.00018	0.36%
QC value within limits for Ti 337.279		Recovery = 100.46%				
Tl 190.801†	117.9	0.0218 mg/L	0.00168	0.0218 mg/L	0.00168	7.69%
QC value within limits for Tl 190.801		Recovery = 109.21%				
V 292.402†	8454.1	0.0503 mg/L	0.00052	0.0503 mg/L	0.00052	1.03%

QC value within limits for V 292.402 Recovery = 100.70%
 Zn 206.200† 1832.4 0.0205 mg/L 0.00013 0.0205 mg/L 0.00013 0.63%
 QC value within limits for Zn 206.200 Recovery = 102.43%
 Ca 227.546† 431.8 0.9981 mg/L 0.01231 0.9981 mg/L 0.01231 1.23%
 QC value within limits for Ca 227.546 Recovery = 99.81%
 Sr 460.733† 74027.1 0.0800 mg/L 0.00019 0.0800 mg/L 0.00019 0.24%
 QC value less than the lower limit for Sr 460.733 Recovery = 80.00%
 QC Failed. Continue with analysis.

=====
 Sequence No.: 44 Autosampler Location: 7
 Sample ID: ICSA Date Collected: 7/3/2008 2:38:36 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:
 =====

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	6890417.6	0.9103 mg/L	0.00052			0.06%
Ag 328.068†	-3660.3	-0.0041 mg/L	0.00031	-0.0041 mg/L	0.00031	7.57%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 308.215†	7262030.6	248.5 mg/L	0.31	248.5 mg/L	0.31	0.13%
QC value within limits for Al 308.215 Recovery = 99.41%						
As 188.979†	-70.7	-0.0065 mg/L	0.00028	-0.0065 mg/L	0.00028	4.24%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.772†	65671.5	-0.0430 mg/L	0.00071	-0.0430 mg/L	0.00071	1.65%
Ba 233.527†	637.6	-0.0003 mg/L	0.00014	-0.0003 mg/L	0.00014	51.91%
Be 313.107†	-1038.2	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	16.21%
QC value within limits for Be 313.107 Recovery = Not calculated						
Cd 226.502†	2022.3	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	14.46%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	136.7	-0.0023 mg/L	0.00008	-0.0023 mg/L	0.00008	3.52%
Cr 267.716†	-623.0	-0.0009 mg/L	0.00009	-0.0009 mg/L	0.00009	9.36%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-1839.7	0.0003 mg/L	0.00042	0.0003 mg/L	0.00042	124.45%
Fe 238.863†	3379531.5	92.83 mg/L	0.193	92.83 mg/L	0.193	0.21%
QC value within limits for Fe 238.863 Recovery = 92.83%						
K 404.721†	921.8	0.3285 mg/L	0.48439	0.3285 mg/L	0.48439	147.44%
Mg 279.077†	8083889.9	248.4 mg/L	0.43	248.4 mg/L	0.43	0.17%
QC value within limits for Mg 279.077 Recovery = 99.34%						
Mn 257.610†	-5280.2	-0.0067 mg/L	0.00011	-0.0067 mg/L	0.00011	1.61%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-104.5	0.0006 mg/L	0.00007	0.0006 mg/L	0.00007	11.95%
Ni 231.604†	-128.1	-0.0018 mg/L	0.00013	-0.0018 mg/L	0.00013	7.45%
Na 330.237†	-361.3	0.2408 mg/L	0.04633	0.2408 mg/L	0.04633	19.24%
Pb 220.353†	-296.5	-0.0002 mg/L	0.00014	-0.0002 mg/L	0.00014	69.31%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-22.0	-0.0007 mg/L	0.00020	-0.0007 mg/L	0.00020	30.19%
Se 196.026†	-56.0	0.0053 mg/L	0.00330	0.0053 mg/L	0.00330	62.43%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-190.2	-0.0196 mg/L	0.00105	-0.0196 mg/L	0.00105	5.38%
Ti 337.279†	439.5	-0.0008 mg/L	0.00017	-0.0008 mg/L	0.00017	22.11%
Tl 190.801†	-77.3	-0.0001 mg/L	0.00112	-0.0001 mg/L	0.00112	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-2080.6	0.0021 mg/L	0.00008	0.0021 mg/L	0.00008	3.78%
Zn 206.200†	713.1	-0.0152 mg/L	0.00024	-0.0152 mg/L	0.00024	1.61%
Ca 227.546†	110349.2	256.1 mg/L	0.19	256.1 mg/L	0.19	0.07%
QC value within limits for Ca 227.546 Recovery = 102.46%						
Sr 460.733†	764.5	-0.0006 mg/L	0.00002	-0.0006 mg/L	0.00002	4.14%

All analyte(s) passed QC.

=====
 Sequence No.: 45 Autosampler Location: 8
 Sample ID: ICSAB Date Collected: 7/3/2008 2:44:22 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:
 =====

Mean Data: ICSAB

Analyte	Mean Corrected		Calib		Sample		RSD
	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.		
Y 371.029	6917691.0	0.9139 mg/L	0.00221				0.24%
Ag 328.068†	71259.7	0.2056 mg/L	0.00259	0.2056 mg/L	0.00259		1.26%
QC value within limits for Ag 328.068		Recovery = 102.79%					
Al 308.215†	7237881.1	247.7 mg/L	0.13	247.7 mg/L	0.13		0.05%
QC value within limits for Al 308.215		Recovery = 99.08%					
As 188.979†	383.8	0.0981 mg/L	0.00086	0.0981 mg/L	0.00086		0.87%
QC value within limits for As 188.979		Recovery = 98.13%					
B 249.772†	64573.3	-0.0476 mg/L	0.00353	-0.0476 mg/L	0.00353		7.42%
Ba 233.527†	90581.9	0.5155 mg/L	0.00663	0.5155 mg/L	0.00663		1.29%
QC value within limits for Ba 233.527		Recovery = 103.10%					
Be 313.107†	2944115.9	0.5089 mg/L	0.00010	0.5089 mg/L	0.00010		0.02%
QC value within limits for Be 313.107		Recovery = 101.78%					
Cd 226.502†	219669.8	0.9779 mg/L	0.01225	0.9779 mg/L	0.01225		1.25%
QC value within limits for Cd 226.502		Recovery = 97.79%					
Co 228.616†	27858.2	0.4742 mg/L	0.00210	0.4742 mg/L	0.00210		0.44%
QC value within limits for Co 228.616		Recovery = 94.84%					
Cr 267.716†	127444.9	0.5036 mg/L	0.00606	0.5036 mg/L	0.00606		1.20%
QC value within limits for Cr 267.716		Recovery = 100.73%					
Cu 324.752†	136032.2	0.5023 mg/L	0.00558	0.5023 mg/L	0.00558		1.11%
QC value within limits for Cu 324.752		Recovery = 100.46%					
Fe 238.863†	3369377.4	92.55 mg/L	0.001	92.55 mg/L	0.001		0.00%
QC value within limits for Fe 238.863		Recovery = 92.55%					
K 404.721†	942.0	0.4139 mg/L	0.73205	0.4139 mg/L	0.73205		176.87%
Mg 279.077†	8084079.1	248.4 mg/L	0.21	248.4 mg/L	0.21		0.08%
QC value within limits for Mg 279.077		Recovery = 99.35%					
Mn 257.610†	440848.1	0.4936 mg/L	0.00585	0.4936 mg/L	0.00585		1.18%
QC value within limits for Mn 257.610		Recovery = 98.72%					
Mo 202.031†	-116.8	0.0003 mg/L	0.00037	0.0003 mg/L	0.00037		133.16%
Ni 231.604†	98746.3	0.9665 mg/L	0.01095	0.9665 mg/L	0.01095		1.13%
QC value within limits for Ni 231.604		Recovery = 96.65%					
Na 330.237†	919.2	1.200 mg/L	0.0388	1.200 mg/L	0.0388		3.23%
Pb 220.353†	426.4	0.0512 mg/L	0.00137	0.0512 mg/L	0.00137		2.68%
QC value within limits for Pb 220.353		Recovery = 102.41%					
Sb 206.836†	3922.1	0.6246 mg/L	0.00172	0.6246 mg/L	0.00172		0.28%
QC value within limits for Sb 206.836		Recovery = 104.10%					
Se 196.026†	40.5	0.0549 mg/L	0.00197	0.0549 mg/L	0.00197		3.59%
QC value within limits for Se 196.026		Recovery = 109.86%					
Sn 189.927†	-225.9	-0.0217 mg/L	0.00007	-0.0217 mg/L	0.00007		0.32%
Ti 337.279†	304.5	-0.0010 mg/L	0.00008	-0.0010 mg/L	0.00008		8.30%
Tl 190.801†	477.5	0.1025 mg/L	0.00035	0.1025 mg/L	0.00035		0.34%
QC value within limits for Tl 190.801		Recovery = 102.47%					
V 292.402†	82627.5	0.5064 mg/L	0.00579	0.5064 mg/L	0.00579		1.14%
QC value within limits for V 292.402		Recovery = 101.28%					
Zn 206.200†	86408.8	0.9456 mg/L	0.01295	0.9456 mg/L	0.01295		1.37%
QC value within limits for Zn 206.200		Recovery = 94.56%					
Ca 227.546†	110324.3	256.1 mg/L	3.10	256.1 mg/L	3.10		1.21%
QC value within limits for Ca 227.546		Recovery = 102.43%					
Sr 460.733†	559.0	-0.0008 mg/L	0.00017	-0.0008 mg/L	0.00017		21.10%

All analyte(s) passed QC.

```

=====
Sequence No.: 46                               Autosampler Location: 157
Sample ID: HLCCV2                             Date Collected: 7/3/2008 2:50:10 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====
    
```

Mean Data: HLCCV2

Analyte	Mean Corrected		Calib		Sample		RSD
	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.		
Y 371.029	6614851.2	0.8739 mg/L	0.00150				0.17%
Ag 328.068†	752069.8	2.111 mg/L	0.0003	2.111 mg/L	0.0003		0.01%
QC value within limits for Ag 328.068		Recovery = 105.55%					
Al 308.215†	14305730.8	489.6 mg/L	0.88	489.6 mg/L	0.88		0.18%
QC value within limits for Al 308.215		Recovery = 97.92%					
As 188.979†	18099.9	4.158 mg/L	0.0406	4.158 mg/L	0.0406		0.98%
QC value within limits for As 188.979		Recovery = 103.95%					
B 249.772†	1997095.8	10.11 mg/L	0.043	10.11 mg/L	0.043		0.42%
QC value within limits for B 249.772		Recovery = 101.11%					

Ba 233.527†	6772604.5	38.83 mg/L	0.037	38.83 mg/L	0.037	0.09%
QC value within limits for Ba 233.527		Recovery = 97.08%				
Be 313.107†	5805202.0	1.003 mg/L	0.0016	1.003 mg/L	0.0016	0.16%
QC value within limits for Be 313.107		Recovery = 100.34%				
Cd 226.502†	429696.7	1.922 mg/L	0.0014	1.922 mg/L	0.0014	0.07%
QC value within limits for Cd 226.502		Recovery = 96.09%				
Co 228.616†	541600.2	9.304 mg/L	0.0067	9.304 mg/L	0.0067	0.07%
QC value within limits for Co 228.616		Recovery = 93.04%				
Cr 267.716†	2482050.6	9.781 mg/L	0.0037	9.781 mg/L	0.0037	0.04%
QC value within limits for Cr 267.716		Recovery = 97.81%				
Cu 324.752†	1382537.2	5.038 mg/L	0.0008	5.038 mg/L	0.0008	0.01%
QC value within limits for Cu 324.752		Recovery = 100.75%				
Fe 238.863†	3359810.6	92.23 mg/L	0.166	92.23 mg/L	0.166	0.18%
QC value within limits for Fe 238.863		Recovery = 92.23%				
K 404.721†	1231.9	-0.1924 mg/L	0.11097	-0.1924 mg/L	0.11097	57.67%
Mg 279.077†	15861434.3	487.3 mg/L	0.45	487.3 mg/L	0.45	0.09%
QC value within limits for Mg 279.077		Recovery = 97.45%				
Mn 257.610†	8431578.8	9.452 mg/L	0.0035	9.452 mg/L	0.0035	0.04%
QC value within limits for Mn 257.610		Recovery = 94.52%				
Mo 202.031†	375841.2	9.709 mg/L	0.0313	9.709 mg/L	0.0313	0.32%
QC value within limits for Mo 202.031		Recovery = 97.09%				
Ni 231.604†	758268.9	7.425 mg/L	0.0097	7.425 mg/L	0.0097	0.13%
QC value within limits for Ni 231.604		Recovery = 92.82%				
Na 330.237†	156196.4	117.7 mg/L	0.04	117.7 mg/L	0.04	0.04%
Pb 220.353†	137146.6	9.805 mg/L	0.0198	9.805 mg/L	0.0198	0.20%
QC value within limits for Pb 220.353		Recovery = 98.05%				
Sb 206.836†	646.8	0.1067 mg/L	0.00997	0.1067 mg/L	0.00997	9.34%
Se 196.026†	3880.8	2.040 mg/L	0.0223	2.040 mg/L	0.0223	1.09%
QC value within limits for Se 196.026		Recovery = 102.00%				
Sn 189.927†	-440.7	-0.0432 mg/L	0.00085	-0.0432 mg/L	0.00085	1.97%
Ti 337.279†	7830154.4	10.04 mg/L	0.002	10.04 mg/L	0.002	0.02%
QC value within limits for Ti 337.279		Recovery = 100.45%				
Tl 190.801†	20334.2	3.778 mg/L	0.0210	3.778 mg/L	0.0210	0.56%
QC value within limits for Tl 190.801		Recovery = 94.46%				
V 292.402†	1677748.6	10.00 mg/L	0.011	10.00 mg/L	0.011	0.11%
QC value within limits for V 292.402		Recovery = 100.03%				
Zn 206.200†	336276.4	3.739 mg/L	0.0065	3.739 mg/L	0.0065	0.17%
QC value within limits for Zn 206.200		Recovery = 93.47%				
Ca 227.546†	112700.5	261.5 mg/L	0.18	261.5 mg/L	0.18	0.07%
QC value within limits for Ca 227.546		Recovery = 104.61%				
Sr 460.733†	9822677.9	10.62 mg/L	0.036	10.62 mg/L	0.036	0.34%
All analyte(s) passed QC.						

Sequence No.: 47
 Sample ID: HLCCV1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 7/3/2008 2:55:08 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: HLCCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7397223.1	0.9773 mg/L	0.01007			1.03%
Ag 328.068†	358717.4	1.005 mg/L	0.0060	1.005 mg/L	0.0060	0.60%
QC value within limits for Ag 328.068		Recovery = 100.48%				
Al 308.215†	587237.3	20.10 mg/L	0.124	20.10 mg/L	0.124	0.61%
QC value within limits for Al 308.215		Recovery = 100.49%				
As 188.979†	8879.8	2.047 mg/L	0.0150	2.047 mg/L	0.0150	0.73%
QC value within limits for As 188.979		Recovery = 102.33%				
B 249.772†	973893.0	5.084 mg/L	0.0043	5.084 mg/L	0.0043	0.08%
QC value within limits for B 249.772		Recovery = 101.68%				
Ba 233.527†	3492675.9	20.03 mg/L	0.131	20.03 mg/L	0.131	0.65%
QC value within limits for Ba 233.527		Recovery = 100.14%				
Be 313.107†	2925492.2	0.5056 mg/L	0.00145	0.5056 mg/L	0.00145	0.29%
QC value within limits for Be 313.107		Recovery = 101.11%				
Cd 226.502†	225323.4	1.011 mg/L	0.0057	1.011 mg/L	0.0057	0.56%
QC value within limits for Cd 226.502		Recovery = 101.12%				
Co 228.616†	293614.9	5.046 mg/L	0.0313	5.046 mg/L	0.0313	0.62%
QC value within limits for Co 228.616		Recovery = 100.93%				
Cr 267.716†	256429.5	1.010 mg/L	0.0062	1.010 mg/L	0.0062	0.62%

Cu	324.752†	QC value within limits for Cu 324.752	673251.4	2.452 mg/L	101.05%	0.0195	0.80%
Fe	238.863†	QC value within limits for Fe 238.863	366290.7	10.06 mg/L	98.07%	0.061	0.60%
K	404.721†	QC value within limits for K 404.721	12133.1	50.19 mg/L	100.56%	0.205	0.41%
Mg	279.077†	QC value within limits for Mg 279.077	1642892.3	50.47 mg/L	100.38%	0.290	0.57%
Mn	257.610†	QC value within limits for Mn 257.610	1347008.1	1.510 mg/L	100.94%	0.0095	0.63%
Mo	202.031†	QC value within limits for Mo 202.031	195335.3	5.045 mg/L	100.67%	0.0057	0.11%
Ni	231.604†	QC value within limits for Ni 231.604	412607.1	4.041 mg/L	100.89%	0.0251	0.62%
Na	330.237†	QC value within limits for Na 330.237	67094.4	50.38 mg/L	101.01%	0.288	0.57%
Pb	220.353†	QC value within limits for Pb 220.353	14323.3	1.022 mg/L	100.75%	0.0098	0.96%
Sb	206.836†	QC value within limits for Sb 206.836	63651.8	10.09 mg/L	102.17%	0.003	0.03%
Se	196.026†	QC value within limits for Se 196.026	1988.4	1.029 mg/L	100.91%	0.0083	0.81%
Sn	189.927†	QC value within limits for Sn 189.927	172752.8	10.26 mg/L	102.86%	0.041	0.40%
Ti	337.279†	QC value within limits for Ti 337.279	3927438.8	5.039 mg/L	102.64%	0.0270	0.54%
Tl	190.801†	QC value within limits for Tl 190.801	10969.6	2.030 mg/L	100.77%	0.0184	0.91%
V	292.402†	QC value within limits for V 292.402	850630.7	5.066 mg/L	101.51%	0.0299	0.59%
Zn	206.200†	QC value within limits for Zn 206.200	179452.5	2.009 mg/L	101.32%	0.0113	0.56%
Ca	227.546†	QC value within limits for Ca 227.546	21523.5	49.82 mg/L	100.43%	0.371	0.74%
Sr	460.733†	QC value within limits for Sr 460.733	4638840.6	5.013 mg/L	99.64%	0.0032	0.06%

All analyte(s) passed QC.

Sequence No.: 48
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/3/2008 3:01:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7528385.6	0.9946 mg/L	0.00139			0.14%
Ag 328.068†	181414.2	0.5082 mg/L	0.00193	0.5082 mg/L	0.00193	0.38%
Al 308.215†	289788.3	9.917 mg/L	0.0438	9.917 mg/L	0.0438	0.44%
As 188.979†	4512.5	1.040 mg/L	0.0018	1.040 mg/L	0.0018	0.17%
B 249.772†	484569.2	2.529 mg/L	0.0188	2.529 mg/L	0.0188	0.74%
Ba 233.527†	1796595.0	10.30 mg/L	0.012	10.30 mg/L	0.012	0.12%
Be 313.107†	1497849.8	0.2589 mg/L	0.00038	0.2589 mg/L	0.00038	0.15%
Cd 226.502†	114019.5	0.5117 mg/L	0.00240	0.5117 mg/L	0.00240	0.47%
Co 228.616†	150924.3	2.594 mg/L	0.0137	2.594 mg/L	0.0137	0.53%
Cr 267.716†	130338.2	0.5136 mg/L	0.00269	0.5136 mg/L	0.00269	0.52%
Cu 324.752†	337329.0	1.228 mg/L	0.0085	1.228 mg/L	0.0085	0.69%
Fe 238.863†	185381.4	5.090 mg/L	0.0243	5.090 mg/L	0.0243	0.48%

K 404.721†	5782.9	23.91 mg/L	0.916	23.91 mg/L	0.916	3.83%
QC value	within limits for K 404.721 Recovery = 95.63%					
Mg 279.077†	836867.1	25.71 mg/L	0.161	25.71 mg/L	0.161	0.63%
QC value	within limits for Mg 279.077 Recovery = 102.83%					
Mn 257.610†	684050.0	0.7668 mg/L	0.00416	0.7668 mg/L	0.00416	0.54%
QC value	within limits for Mn 257.610 Recovery = 102.24%					
Mo 202.031†	96530.8	2.493 mg/L	0.0282	2.493 mg/L	0.0282	1.13%
QC value	within limits for Mo 202.031 Recovery = 99.72%					
Ni 231.604†	213038.0	2.086 mg/L	0.0093	2.086 mg/L	0.0093	0.45%
QC value	within limits for Ni 231.604 Recovery = 104.31%					
Na 330.237†	31707.9	23.81 mg/L	0.091	23.81 mg/L	0.091	0.38%
QC value	within limits for Na 330.237 Recovery = 95.24%					
Pb 220.353†	7437.2	0.5304 mg/L	0.00010	0.5304 mg/L	0.00010	0.02%
QC value	within limits for Pb 220.353 Recovery = 106.09%					
Sb 206.836†	32201.9	5.105 mg/L	0.0619	5.105 mg/L	0.0619	1.21%
QC value	within limits for Sb 206.836 Recovery = 102.10%					
Se 196.026†	999.8	0.5172 mg/L	0.00006	0.5172 mg/L	0.00006	0.01%
QC value	within limits for Se 196.026 Recovery = 103.44%					
Sn 189.927†	86164.2	5.119 mg/L	0.0250	5.119 mg/L	0.0250	0.49%
QC value	within limits for Sn 189.927 Recovery = 102.38%					
Ti 337.279†	1985068.9	2.547 mg/L	0.0036	2.547 mg/L	0.0036	0.14%
QC value	within limits for Ti 337.279 Recovery = 101.87%					
Tl 190.801†	5868.6	1.086 mg/L	0.0010	1.086 mg/L	0.0010	0.09%
QC value	within limits for Tl 190.801 Recovery = 108.61%					
V 292.402†	426737.3	2.541 mg/L	0.0091	2.541 mg/L	0.0091	0.36%
QC value	within limits for V 292.402 Recovery = 101.65%					
Zn 206.200†	90954.9	1.018 mg/L	0.0080	1.018 mg/L	0.0080	0.79%
QC value	within limits for Zn 206.200 Recovery = 101.80%					
Ca 227.546†	10736.3	24.85 mg/L	0.024	24.85 mg/L	0.024	0.10%
QC value	within limits for Ca 227.546 Recovery = 99.41%					
Sr 460.733†	2199380.4	2.377 mg/L	0.0039	2.377 mg/L	0.0039	0.17%
QC value	within limits for Sr 460.733 Recovery = 95.08%					

All analyte(s) passed QC.

Sequence No.: 49
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/3/2008 3:06:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	7736495.3	1.022 mg/L	0.0049			0.48%
Ag 328.068†	396.2	0.0011 mg/L	0.00028	0.0011 mg/L	0.00028	25.40%
QC value	within limits for Ag 328.068 Recovery = Not calculated					
Al 308.215†	157.7	0.0054 mg/L	0.00151	0.0054 mg/L	0.00151	27.91%
QC value	within limits for Al 308.215 Recovery = Not calculated					
As 188.979†	11.8	0.0027 mg/L	0.00156	0.0027 mg/L	0.00156	57.31%
QC value	within limits for As 188.979 Recovery = Not calculated					
B 249.772†	13440.9	0.0707 mg/L	0.00530	0.0707 mg/L	0.00530	7.49%
QC value	within limits for B 249.772 Recovery = Not calculated					
Ba 233.527†	236.9	0.0014 mg/L	0.00012	0.0014 mg/L	0.00012	8.99%
QC value	within limits for Ba 233.527 Recovery = Not calculated					
Be 313.107†	513.1	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	2.72%
QC value	within limits for Be 313.107 Recovery = Not calculated					
Cd 226.502†	31.7	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	14.50%
QC value	within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	29.0	0.0005 mg/L	0.00012	0.0005 mg/L	0.00012	24.92%
QC value	within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-29.4	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	2.89%
QC value	within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	831.1	0.0030 mg/L	0.00021	0.0030 mg/L	0.00021	6.93%
QC value	within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.863†	294.1	0.0081 mg/L	0.00112	0.0081 mg/L	0.00112	13.91%
QC value	within limits for Fe 238.863 Recovery = Not calculated					
K 404.721†	156.2	0.6544 mg/L	0.14319	0.6544 mg/L	0.14319	21.88%
QC value	within limits for K 404.721 Recovery = Not calculated					
Mg 279.077†	173.7	0.0053 mg/L	0.00128	0.0053 mg/L	0.00128	24.05%
QC value	within limits for Mg 279.077 Recovery = Not calculated					

Mn 257.610†	134.9	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	18.22%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	232.2	0.0060 mg/L	0.00114	0.0060 mg/L	0.00114	18.98%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	20.0	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	12.33%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Na 330.237†	29.1	0.0219 mg/L	0.07244	0.0219 mg/L	0.07244	331.26%
QC value within limits for Na 330.237 Recovery = Not calculated						
Pb 220.353†	-1.8	-0.0001 mg/L	0.00027	-0.0001 mg/L	0.00027	210.35%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	110.8	0.0176 mg/L	0.00355	0.0176 mg/L	0.00355	20.19%
QC value greater than the upper limit for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.3	0.0012 mg/L	0.00055	0.0012 mg/L	0.00055	45.38%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	154.4	0.0092 mg/L	0.00106	0.0092 mg/L	0.00106	11.58%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	497.0	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	0.90%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	13.6	0.0025 mg/L	0.00067	0.0025 mg/L	0.00067	26.52%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	8.1	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	1.55%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	47.1	0.0005 mg/L	0.00005	0.0005 mg/L	0.00005	8.80%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Ca 227.546†	9.4	0.0219 mg/L	0.03646	0.0219 mg/L	0.03646	166.53%
QC value within limits for Ca 227.546 Recovery = Not calculated						
Sr 460.733†	-1168.7	-0.0013 mg/L	0.00001	-0.0013 mg/L	0.00001	0.70%
QC value within limits for Sr 460.733 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 50
 Sample ID: PBS-M4570073
 Analyst:
 Initial Sample Wt: 1 g
 Dilution:

Autosampler Location: 62
 Date Collected: 7/3/2008 3:12:39 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

Mean Data: PBS-M4570073

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7538311.7	0.9959 mg/L	0.00017			0.02%
Ag 328.068†	301.1	0.0008 mg/L	0.00013			15.10%
Al 308.215†	117.7	0.0040 mg/L	0.00065			16.11%
As 188.979†	-12.3	-0.0028 mg/L	0.00071			25.28%
B 249.772†	9708.1	0.0510 mg/L	0.00377			7.39%
Ba 233.527†	89.7	0.0005 mg/L	0.00003			5.33%
Be 313.107†	287.3	0.0000 mg/L	0.00000			3.11%
Cd 226.502†	6.9	0.0000 mg/L	0.00001			19.61%
Co 228.616†	6.5	0.0001 mg/L	0.00003			23.73%
Cr 267.716†	403.4	0.0016 mg/L	0.00010			6.55%
Cu 324.752†	2267.7	0.0083 mg/L	0.00135			16.29%
Fe 238.863†	693.3	0.0191 mg/L	0.00140			7.37%
K 404.721†	47.1	0.1966 mg/L	0.81030			412.15%
Mg 279.077†	1.7	0.0001 mg/L	0.00109			>999.9%
Mn 257.610†	347.6	0.0004 mg/L	0.00001			3.64%
Mo 202.031†	201.5	0.0052 mg/L	0.00177			33.98%
Ni 231.604†	44.2	0.0004 mg/L	0.00007			16.39%
Na 330.237†	395.5	0.2967 mg/L	0.05057			17.05%
Pb 220.353†	-10.4	-0.0007 mg/L	0.00040			53.88%
Sb 206.836†	47.4	0.0075 mg/L	0.00011			1.48%
Se 196.026†	5.8	0.0030 mg/L	0.00009			3.15%
Sn 189.927†	418.6	0.0249 mg/L	0.00189			7.58%
Ti 337.279†	796.2	0.0010 mg/L	0.00013			12.83%
Tl 190.801†	5.8	0.0011 mg/L	0.00058			53.51%
V 292.402†	7.0	0.0000 mg/L	0.00001			17.24%
Zn 206.200†	252.1	0.0028 mg/L	0.00008			2.72%
Ca 227.546†	36.5	0.0844 mg/L	0.01385			16.40%
Sr 460.733†	-1164.1	-0.0013 mg/L	0.00039			31.20%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 51
 Sample ID: LCSS 1/3
 Analyst:
 Initial Sample Wt: 1 g
 Dilution: 3X

Autosampler Location: 63
 Date Collected: 7/3/2008 3:18:24 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

 Mean Data: LCSS 1/3

Analyte	Mean Corrected		Calib		Std.Dev.	Sample		RSD
	Intensity	Conc.	Units	Conc.		Units	Std.Dev.	
Y 371.029	7713668.4	1.019	mg/L	0.0059			0.58%	
Ag 328.068†	125960.9	0.3560	mg/L	0.00129			0.36%	
Al 308.215†	710398.2	24.32	mg/L	0.092			0.38%	
As 188.979†	2288.7	0.5426	mg/L	0.00520			0.96%	
B 249.772†	102510.6	0.3579	mg/L	0.00298			0.83%	
Ba 233.527†	230905.1	1.322	mg/L	0.0071			0.53%	
Be 313.107†	1356991.8	0.2345	mg/L	0.00014			0.06%	
Cd 226.502†	78860.9	0.3499	mg/L	0.00189			0.54%	
Co 228.616†	13516.1	0.2303	mg/L	0.00135			0.59%	
Cr 267.716†	169954.0	0.6700	mg/L	0.00325			0.48%	
Cu 324.752†	71582.9	0.2656	mg/L	0.00103			0.39%	
Fe 238.863†	1608806.5	44.22	mg/L	0.046			0.11%	
K 404.721†	3150.8	13.45	mg/L	0.445			3.31%	
Mg 279.077†	274340.8	8.456	mg/L	0.0377			0.45%	
Mn 257.610†	702387.6	0.7885	mg/L	0.00441			0.56%	
Mo 202.031†	4086.3	0.1072	mg/L	0.00049			0.46%	
Ni 231.604†	33958.1	0.3322	mg/L	0.00199			0.60%	
Na 330.237†	4558.9	3.601	mg/L	0.0372			1.03%	
Pb 220.353†	3734.3	0.2669	mg/L	0.00163			0.61%	
Sb 206.836†	2649.7	0.4208	mg/L	0.00131			0.31%	
Se 196.026†	483.2	0.2642	mg/L	0.00290			1.10%	
Sn 189.927†	6349.0	0.3752	mg/L	0.00211			0.56%	
Ti 337.279†	820720.4	1.053	mg/L	0.0004			0.04%	
Tl 190.801†	1679.5	0.3134	mg/L	0.00135			0.43%	
V 292.402†	89065.5	0.5372	mg/L	0.00351			0.65%	
Zn 206.200†	137895.1	1.539	mg/L	0.0079			0.51%	
Ca 227.546†	5620.1	13.71	mg/L	0.032			0.23%	
Sr 460.733†	91151.6	0.0985	mg/L	0.00003			0.03%	

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

=====
 Sequence No.: 52
 Sample ID: 1112063 1/10
 Analyst:
 Initial Sample Wt: 1 g
 Dilution: 10X

Autosampler Location: 64
 Date Collected: 7/3/2008 3:24:12 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

 Mean Data: 1112063 1/10

Analyte	Mean Corrected		Calib		Std.Dev.	Sample		RSD
	Intensity	Conc.	Units	Conc.		Units	Std.Dev.	
Y 371.029	7521121.4	0.9937	mg/L	0.00338			0.34%	
Ag 328.068†	-784.9	-0.0004	mg/L	0.00004			10.48%	
Al 308.215†	252886.9	8.657	mg/L	0.0413			0.48%	
As 188.979†	51.4	0.0201	mg/L	0.00031			1.56%	
B 249.772†	23248.7	0.0194	mg/L	0.00169			8.74%	
Ba 233.527†	12266.8	0.0693	mg/L	0.00013			0.19%	
Be 313.107†	2536.3	0.0005	mg/L	0.00001			2.06%	
Cd 226.502†	571.2	0.0001	mg/L	0.00003			44.48%	
Co 228.616†	676.0	0.0105	mg/L	0.00021			2.03%	
Cr 267.716†	3124.7	0.0126	mg/L	0.00007			0.58%	
Cu 324.752†	4011.7	0.0173	mg/L	0.00004			0.21%	
Fe 238.863†	919645.2	25.28	mg/L	0.041			0.16%	
K 404.721†	583.2	2.103	mg/L	0.0362			1.72%	
Mg 279.077†	170856.9	5.265	mg/L	0.0253			0.48%	
Mn 257.610†	1717335.3	1.926	mg/L	0.0015			0.08%	
Mo 202.031†	19.9	0.0014	mg/L	0.00005			3.47%	
Ni 231.604†	2357.9	0.0229	mg/L	0.00017			0.73%	
Na 330.237†	-131.2	0.0265	mg/L	0.00954			35.93%	
Pb 220.353†	150.5	0.0114	mg/L	0.00018			1.57%	
Sb 206.836†	10.3	0.0020	mg/L	0.00048			23.54%	
Se 196.026†	-6.8	0.0047	mg/L	0.00108			22.78%	

Sn 189.927†	-129.4	-0.0080 mg/L	0.00008	1.03%
Ti 337.279†	26763.5	0.0340 mg/L	0.00032	0.94%
Tl 190.801†	-32.7	-0.0036 mg/L	0.00026	7.28%
V 292.402†	1394.8	0.0123 mg/L	0.00000	0.03%
Zn 206.200†	6184.8	0.0652 mg/L	0.00016	0.24%
Ca 227.546†	22960.5	53.41 mg/L	0.116	0.22%
Sr 460.733†	35280.4	0.0375 mg/L	0.00011	0.28%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

```

=====
Sequence No.: 53                               Autosampler Location: 65
Sample ID: 1112063D 1/10                       Date Collected: 7/3/2008 3:30:02 PM
Analyst:                                         Data Type: Original
Initial Sample Wt: 1 g                           Initial Sample Vol:
Dilution: 10X                                   Sample Prep Vol: 100 mL
=====

```

Mean Data: 1112063D 1/10

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units		Std.Dev.
Y 371.029	7731885.6	1.022 mg/L	0.0004				0.04%
Ag 328.068†	-562.4	-0.0001 mg/L	0.00013				95.38%
Al 308.215†	201570.6	6.901 mg/L	0.0202				0.29%
As 188.979†	-4.0	0.0059 mg/L	0.00080				13.67%
B 249.772†	17348.8	0.0137 mg/L	0.00092				6.72%
Ba 233.527†	7299.1	0.0411 mg/L	0.00007				0.18%
Be 313.107†	2087.5	0.0004 mg/L	0.00001				2.88%
Cd 226.502†	459.8	0.0002 mg/L	0.00000				1.46%
Co 228.616†	452.2	0.0069 mg/L	0.00009				1.30%
Cr 267.716†	2418.5	0.0097 mg/L	0.00003				0.26%
Cu 324.752†	1802.6	0.0087 mg/L	0.00000				0.05%
Fe 238.863†	689591.3	18.96 mg/L	0.047				0.25%
K 404.721†	303.0	1.383 mg/L	0.1731				12.52%
Mg 279.077†	105329.7	3.248 mg/L	0.0135				0.41%
Mn 257.610†	796334.0	0.8933 mg/L	0.00211				0.24%
Mo 202.031†	-9.3	0.0005 mg/L	0.00007				14.78%
Ni 231.604†	1821.6	0.0177 mg/L	0.00000				0.02%
Na 330.237†	14.6	0.0893 mg/L	0.10408				116.59%
Pb 220.353†	78.2	0.0057 mg/L	0.00021				3.71%
Sb 206.836†	8.3	0.0016 mg/L	0.00066				41.40%
Se 196.026†	-11.5	0.0004 mg/L	0.00081				213.01%
Sn 189.927†	12.6	0.0000 mg/L	0.00007				>999.9%
Ti 337.279†	23550.8	0.0301 mg/L	0.00111				3.67%
Tl 190.801†	-4.4	0.0004 mg/L	0.00049				132.19%
V 292.402†	1073.2	0.0094 mg/L	0.00002				0.21%
Zn 206.200†	5044.3	0.0537 mg/L	0.00004				0.08%
Ca 227.546†	2624.8	6.373 mg/L	0.0266				0.42%
Sr 460.733†	7321.4	0.0079 mg/L	0.00008				1.08%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

```

=====
Sequence No.: 54                               Autosampler Location: 66
Sample ID: 1112063S 1/10                       Date Collected: 7/3/2008 3:35:44 PM
Analyst:                                         Data Type: Original
Initial Sample Wt: 1 g                           Initial Sample Vol:
Dilution: 10X                                   Sample Prep Vol: 100 mL
=====

```

Mean Data: 1112063S 1/10

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units		Std.Dev.
Y 371.029	7673745.4	1.014 mg/L	0.0100				0.98%
Ag 328.068†	1336.8	0.0055 mg/L	0.00052				9.52%
Al 308.215†	254235.4	8.703 mg/L	0.1223				1.41%
As 188.979†	17.7	0.0122 mg/L	0.00038				3.15%
B 249.772†	37787.6	0.1051 mg/L	0.00148				1.40%
Ba 233.527†	44775.6	0.2559 mg/L	0.00417				1.63%
Be 313.107†	31362.5	0.0054 mg/L	0.00006				1.10%
Cd 226.502†	1697.0	0.0054 mg/L	0.00005				0.89%
Co 228.616†	3678.3	0.0622 mg/L	0.00056				0.91%
Cr 267.716†	8102.6	0.0322 mg/L	0.00023				0.71%
Cu 324.752†	9651.4	0.0377 mg/L	0.00083				2.19%

Fe 238.863†	832796.8	22.89 mg/L	0.334	1.46%
K 404.721†	726.2	3.144 mg/L	0.1116	3.55%
Mg 279.077†	138929.2	4.283 mg/L	0.0602	1.41%
Mn 257.610†	1020315.2	1.145 mg/L	0.0008	0.07%
Mo 202.031†	1957.4	0.0514 mg/L	0.00022	0.43%
Ni 231.604†	7602.1	0.0743 mg/L	0.00071	0.96%
Na 330.237†	2252.4	1.785 mg/L	0.0106	0.59%
Pb 220.353†	853.7	0.0610 mg/L	0.00001	0.02%
Sb 206.836†	303.8	0.0485 mg/L	0.00319	6.57%
Se 196.026†	185.7	0.1034 mg/L	0.00039	0.38%
Sn 189.927†	9094.1	0.5395 mg/L	0.00465	0.86%
Ti 337.279†	59342.5	0.0760 mg/L	0.00031	0.41%
Tl 190.801†	1138.0	0.2119 mg/L	0.00093	0.44%
V 292.402†	10112.5	0.0638 mg/L	0.00102	1.60%
Zn 206.200†	11227.1	0.1224 mg/L	0.00110	0.90%
Ca 227.546†	4506.4	10.78 mg/L	0.135	1.25%
Sr 460.733†	162853.4	0.1759 mg/L	0.00028	0.16%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 55
 Sample ID: 1112063A 1/10
 Analyst:
 Initial Sample Wt:
 Dilution: 10X

Autosampler Location: 67
 Date Collected: 7/3/2008 3:41:31 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

Mean Data: 1112063A 1/10

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7443952.5	0.9835 mg/L		0.00183			0.19%
Ag 328.068†	17608.2	0.0511 mg/L		0.00025			0.49%
Al 308.215†	296715.8	10.16 mg/L		0.039			0.38%
As 188.979†	224.5	0.0597 mg/L		0.00015			0.25%
B 249.772†	201541.9	0.9582 mg/L		0.01376			1.44%
Ba 233.527†	348342.4	1.997 mg/L		0.0119			0.60%
Be 313.107†	285186.4	0.0493 mg/L		0.00027			0.54%
Cd 226.502†	11376.3	0.0486 mg/L		0.00002			0.03%
Co 228.616†	29569.6	0.5071 mg/L		0.00016			0.03%
Cr 267.716†	53144.3	0.2096 mg/L		0.00085			0.40%
Cu 324.752†	71283.0	0.2622 mg/L		0.00221			0.84%
Fe 238.863†	914203.0	25.13 mg/L		0.025			0.10%
K 404.721†	4918.3	20.27 mg/L		0.809			3.99%
Mg 279.077†	223512.0	6.882 mg/L		0.0421			0.61%
Mn 257.610†	2058077.4	2.308 mg/L		0.0003			0.01%
Mo 202.031†	18869.5	0.4881 mg/L		0.00128			0.26%
Ni 231.604†	53398.3	0.5227 mg/L		0.00204			0.39%
Na 330.237†	23965.1	18.09 mg/L		0.023			0.13%
Pb 220.353†	7380.1	0.5262 mg/L		0.00061			0.12%
Sb 206.836†	3110.4	0.4935 mg/L		0.00005			0.01%
Se 196.026†	1991.3	1.035 mg/L		0.0018			0.17%
Sn 189.927†	-151.8	-0.0094 mg/L		0.00020			2.17%
Ti 337.279†	400627.1	0.5137 mg/L		0.00224			0.44%
Tl 190.801†	10691.2	1.979 mg/L		0.0033			0.17%
V 292.402†	84251.5	0.5055 mg/L		0.00135			0.27%
Zn 206.200†	49505.0	0.5509 mg/L		0.00294			0.53%
Ca 227.546†	22836.8	53.12 mg/L		0.077			0.14%
Sr 460.733†	35914.8	0.0382 mg/L		0.00019			0.49%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 56
 Sample ID: 1112063L 1/10
 Analyst:
 Initial Sample Wt:
 Dilution: 10X

Autosampler Location: 68
 Date Collected: 7/3/2008 3:47:15 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

Mean Data: 1112063L 1/10

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7708535.5	1.018 mg/L		0.0024			0.24%

Ag 328.068†	57.9	0.0005 mg/L	0.00014	25.43%
Al 308.215†	50607.0	1.732 mg/L	0.0003	0.02%
As 188.979†	14.1	0.0049 mg/L	0.00256	51.96%
B 249.772†	7631.9	0.0191 mg/L	0.00184	9.64%
Ba 233.527†	2508.6	0.0142 mg/L	0.00001	0.07%
Be 313.107†	538.3	0.0001 mg/L	0.00002	20.46%
Cd 226.502†	147.5	0.0002 mg/L	0.00009	57.22%
Co 228.616†	154.2	0.0024 mg/L	0.00013	5.19%
Cr 267.716†	603.2	0.0024 mg/L	0.00002	1.03%
Cu 324.752†	1084.0	0.0045 mg/L	0.00032	7.11%
Fe 238.863†	187930.7	5.165 mg/L	0.0066	0.13%
K 404.721†	289.7	1.147 mg/L	0.1512	13.18%
Mg 279.077†	34798.5	1.072 mg/L	0.0002	0.02%
Mn 257.610†	353066.2	0.3960 mg/L	0.00075	0.19%
Mo 202.031†	28.8	0.0009 mg/L	0.00009	10.26%
Ni 231.604†	491.0	0.0048 mg/L	0.00004	0.76%
Na 330.237†	-60.0	-0.0195 mg/L	0.01752	89.68%
Pb 220.353†	15.0	0.0012 mg/L	0.00006	5.07%
Sb 206.836†	9.5	0.0016 mg/L	0.00004	2.82%
Se 196.026†	1.1	0.0023 mg/L	0.00104	46.04%
Sn 189.927†	-42.2	-0.0026 mg/L	0.00011	4.46%
Ti 337.279†	5517.7	0.0070 mg/L	0.00008	1.07%
Tl 190.801†	4.1	0.0013 mg/L	0.00067	53.73%
V 292.402†	275.4	0.0025 mg/L	0.00004	1.51%
Zn 206.200†	1385.8	0.0147 mg/L	0.00005	0.37%
Ca 227.546†	4596.3	10.69 mg/L	0.049	0.46%
Sr 460.733†	5332.2	0.0056 mg/L	0.00014	2.42%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 57
 Sample ID: 1112064 1/5
 Analyst:
 Initial Sample Wt: 1.03 g
 Dilution: 5X

Autosampler Location: 69
 Date Collected: 7/3/2008 3:52:58 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

Mean Data: 1112064 1/5

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7565706.1	0.9996 mg/L	0.01055			1.06%
Ag 328.068†	-1095.3	-0.0003 mg/L	0.00043			138.70%
Al 308.215†	361455.2	12.37 mg/L	0.036			0.29%
As 188.979†	-7.3	0.0114 mg/L	0.00042			3.64%
B 249.772†	29118.5	0.0033 mg/L	0.00105			32.03%
Ba 233.527†	15781.8	0.0891 mg/L	0.00085			0.95%
Be 313.107†	2836.1	0.0005 mg/L	0.00001			2.11%
Cd 226.502†	815.1	0.0000 mg/L	0.00003			97.00%
Co 228.616†	815.6	0.0124 mg/L	0.00014			1.17%
Cr 267.716†	4576.4	0.0184 mg/L	0.00028			1.54%
Cu 324.752†	4325.9	0.0199 mg/L	0.00022			1.10%
Fe 238.863†	1333423.2	36.65 mg/L	0.046			0.13%
K 404.721†	554.2	2.474 mg/L	0.3213			12.99%
Mg 279.077†	256324.5	7.898 mg/L	0.0033			0.04%
Mn 257.610†	1931154.8	2.166 mg/L	0.0017			0.08%
Mo 202.031†	-15.1	0.0009 mg/L	0.00007			7.55%
Ni 231.604†	3023.1	0.0293 mg/L	0.00027			0.94%
Na 330.237†	-6.5	0.1492 mg/L	0.06065			40.64%
Pb 220.353†	153.3	0.0112 mg/L	0.00093			8.30%
Sb 206.836†	3.6	0.0011 mg/L	0.00101			91.21%
Se 196.026†	-15.7	0.0041 mg/L	0.00083			20.29%
Sn 189.927†	-24.0	-0.0028 mg/L	0.00013			4.68%
Ti 337.279†	24177.0	0.0308 mg/L	0.00009			0.30%
Tl 190.801†	-28.4	-0.0028 mg/L	0.00038			13.47%
V 292.402†	2089.3	0.0182 mg/L	0.00025			1.38%
Zn 206.200†	9304.5	0.0987 mg/L	0.00104			1.05%
Ca 227.546†	7705.0	18.39 mg/L	0.223			1.21%
Sr 460.733†	17362.6	0.0186 mg/L	0.00000			0.03%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 58

Autosampler Location: 70

Sample ID: 1112063
 Analyst:
 Initial Sample Wt: 1 g
 Dilution:

Date Collected: 7/3/2008 3:58:43 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

 Mean Data: 1112063

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc.			Units	Conc. Units		Std.Dev.
Y 371.029	7001110.1	0.9250	mg/L	0.00225			0.24%
Ag 328.068†	-8693.8	-0.0083	mg/L	0.00030			3.64%
Al 308.215†	2394315.3	81.96	mg/L	0.425			0.52%
As 188.979†	414.8	0.1681	mg/L	0.01951			11.61%
B 249.772†	163289.3	-0.0633	mg/L	0.00486			7.68%
Ba 233.527†	113661.6	0.6428	mg/L	0.00259			0.40%
Be 313.107†	22302.8	0.0040	mg/L	0.00002			0.55%
Cd 226.502†	5474.1	0.0022	mg/L	0.00014			6.62%
Co 228.616†	6065.9	0.0939	mg/L	0.00093			0.99%
Cr 267.716†	29235.2	0.1174	mg/L	0.00031			0.26%
Cu 324.752†	35201.3	0.1523	mg/L	0.00033			0.21%
Fe 238.863†	8241720.7	226.5	mg/L	0.01			0.00%
K 404.721†	3606.7	11.65	mg/L	0.219			1.88%
Mg 279.077†	1481827.9	45.66	mg/L	0.130			0.28%
Mn 257.610†	15174756.2	17.02	mg/L	0.007			0.04%
Mo 202.031†	-140.9	0.0039	mg/L	0.00075			19.25%
Ni 231.604†	21390.2	0.2076	mg/L	0.00041			0.20%
Na 330.237†	505.7	1.516	mg/L	0.0787			5.19%
Pb 220.353†	1323.6	0.1009	mg/L	0.00067			0.66%
Sb 206.836†	37.9	0.0098	mg/L	0.00134			13.71%
Se 196.026†	-123.8	0.0102	mg/L	0.00163			16.02%
Sn 189.927†	-56.1	-0.0057	mg/L	0.00051			8.89%
Ti 337.279†	255949.5	0.3256	mg/L	0.00405			1.24%
Tl 190.801†	-214.5	-0.0174	mg/L	0.00167			9.62%
V 292.402†	13470.0	0.1158	mg/L	0.00048			0.41%
Zn 206.200†	52777.5	0.5548	mg/L	0.00272			0.49%
Ca 227.546†	221310.0	514.5	mg/L	2.62			0.51%
Sr 460.733†	406218.0	0.4334	mg/L	0.00198			0.46%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

=====
 Sequence No.: 59
 Sample ID: 1112063D
 Analyst:
 Initial Sample Wt: 1 g
 Dilution:

Autosampler Location: 71
 Date Collected: 7/3/2008 4:03:08 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

 Mean Data: 1112063D

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc.			Units	Conc. Units		Std.Dev.
Y 371.029	7390475.8	0.9764	mg/L	0.00461			0.47%
Ag 328.068†	-6825.8	-0.0058	mg/L	0.00008			1.43%
Al 308.215†	1942540.1	66.50	mg/L	0.201			0.30%
As 188.979†	-118.5	0.0359	mg/L	0.00215			5.98%
B 249.772†	128079.1	-0.0483	mg/L	0.00363			7.52%
Ba 233.527†	70003.6	0.3947	mg/L	0.00271			0.69%
Be 313.107†	17763.3	0.0031	mg/L	0.00001			0.48%
Cd 226.502†	4174.1	0.0013	mg/L	0.00019			14.65%
Co 228.616†	4082.2	0.0623	mg/L	0.00055			0.88%
Cr 267.716†	24034.3	0.0965	mg/L	0.00054			0.56%
Cu 324.752†	14935.1	0.0744	mg/L	0.00003			0.05%
Fe 238.863†	6416362.0	176.4	mg/L	0.01			0.00%
K 404.721†	2001.7	9.408	mg/L	0.1837			1.95%
Mg 279.077†	967790.8	29.85	mg/L	0.004			0.01%
Mn 257.610†	7460406.0	8.369	mg/L	0.0135			0.16%
Mo 202.031†	-151.2	0.0026	mg/L	0.00053			20.55%
Ni 231.604†	17050.6	0.1657	mg/L	0.00118			0.71%
Na 330.237†	404.8	1.033	mg/L	0.0069			0.67%
Pb 220.353†	807.0	0.0593	mg/L	0.00022			0.37%
Sb 206.836†	4.9	0.0033	mg/L	0.00073			21.70%
Se 196.026†	-94.1	0.0105	mg/L	0.00016			1.54%
Sn 189.927†	86.7	-0.0018	mg/L	0.00024			13.32%

Ti 337.279†	225477.8	0.2885 mg/L	0.00025	0.09%
Tl 190.801†	-141.0	-0.0149 mg/L	0.00055	3.71%
V 292.402†	10870.8	0.0924 mg/L	0.00025	0.27%
Zn 206.200†	45758.8	0.4864 mg/L	0.00269	0.55%
Ca 227.546†	25439.6	61.64 mg/L	0.274	0.45%
Sr 460.733†	87244.3	0.0940 mg/L	0.00029	0.30%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

```

=====
Sequence No.: 60                               Autosampler Location: 4
Sample ID: CCV                                 Date Collected: 7/3/2008 4:09:03 PM
Analyst:                                       Data Type: Original
Initial Sample Wt.:                           Initial Sample Vol:
Dilution:                                    Sample Prep Vol:
=====
    
```

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7462024.2	0.9859 mg/L	0.00334			0.34%
Ag 328.068†	183723.1	0.5147 mg/L	0.00073	0.5147 mg/L	0.00073	0.14%
QC value within limits for Ag 328.068		Recovery = 102.93%				
Al 308.215†	293710.5	10.05 mg/L	0.022	10.05 mg/L	0.022	0.22%
QC value within limits for Al 308.215		Recovery = 100.52%				
As 188.979†	4542.1	1.047 mg/L	0.0023	1.047 mg/L	0.0023	0.22%
QC value within limits for As 188.979		Recovery = 104.69%				
B 249.772†	473041.4	2.468 mg/L	0.0228	2.468 mg/L	0.0228	0.92%
QC value within limits for B 249.772		Recovery = 98.73%				
Ba 233.527†	1797994.1	10.31 mg/L	0.015	10.31 mg/L	0.015	0.14%
QC value within limits for Ba 233.527		Recovery = 103.10%				
Be 313.107†	1500818.5	0.2594 mg/L	0.00007	0.2594 mg/L	0.00007	0.03%
QC value within limits for Be 313.107		Recovery = 103.75%				
Cd 226.502†	114857.9	0.5154 mg/L	0.00003	0.5154 mg/L	0.00003	0.01%
QC value within limits for Cd 226.502		Recovery = 103.09%				
Co 228.616†	152452.8	2.620 mg/L	0.0056	2.620 mg/L	0.0056	0.21%
QC value within limits for Co 228.616		Recovery = 104.81%				
Cr 267.716†	131786.4	0.5193 mg/L	0.00024	0.5193 mg/L	0.00024	0.05%
QC value within limits for Cr 267.716		Recovery = 103.86%				
Cu 324.752†	338527.7	1.233 mg/L	0.0009	1.233 mg/L	0.0009	0.07%
QC value within limits for Cu 324.752		Recovery = 98.62%				
Fe 238.863†	187809.6	5.156 mg/L	0.0016	5.156 mg/L	0.0016	0.03%
QC value within limits for Fe 238.863		Recovery = 103.12%				
K 404.721†	5917.8	24.47 mg/L	0.005	24.47 mg/L	0.005	0.02%
QC value within limits for K 404.721		Recovery = 97.88%				
Mg 279.077†	846138.7	25.99 mg/L	0.046	25.99 mg/L	0.046	0.18%
QC value within limits for Mg 279.077		Recovery = 103.97%				
Mn 257.610†	692534.2	0.7763 mg/L	0.00116	0.7763 mg/L	0.00116	0.15%
QC value within limits for Mn 257.610		Recovery = 103.51%				
Mo 202.031†	97394.0	2.515 mg/L	0.0215	2.515 mg/L	0.0215	0.85%
QC value within limits for Mo 202.031		Recovery = 100.61%				
Ni 231.604†	214997.9	2.105 mg/L	0.0001	2.105 mg/L	0.0001	0.00%
QC value within limits for Ni 231.604		Recovery = 105.27%				
Na 330.237†	32105.4	24.11 mg/L	0.052	24.11 mg/L	0.052	0.22%
QC value within limits for Na 330.237		Recovery = 96.43%				
Pb 220.353†	7503.5	0.5352 mg/L	0.00166	0.5352 mg/L	0.00166	0.31%
QC value within limits for Pb 220.353		Recovery = 107.03%				
Sb 206.836†	32259.9	5.114 mg/L	0.0119	5.114 mg/L	0.0119	0.23%
QC value within limits for Sb 206.836		Recovery = 102.29%				
Se 196.026†	1003.9	0.5194 mg/L	0.00009	0.5194 mg/L	0.00009	0.02%
QC value within limits for Se 196.026		Recovery = 103.88%				
Sn 189.927†	86713.1	5.152 mg/L	0.0073	5.152 mg/L	0.0073	0.14%
QC value within limits for Sn 189.927		Recovery = 103.04%				
Ti 337.279†	1996669.4	2.562 mg/L	0.0038	2.562 mg/L	0.0038	0.15%
QC value within limits for Ti 337.279		Recovery = 102.46%				
Tl 190.801†	5927.2	1.097 mg/L	0.0002	1.097 mg/L	0.0002	0.02%
QC value within limits for Tl 190.801		Recovery = 109.69%				
V 292.402†	432853.8	2.578 mg/L	0.0120	2.578 mg/L	0.0120	0.46%
QC value within limits for V 292.402		Recovery = 103.11%				
Zn 206.200†	91400.6	1.023 mg/L	0.0004	1.023 mg/L	0.0004	0.04%
QC value within limits for Zn 206.200		Recovery = 102.30%				
Ca 227.546†	10829.0	25.07 mg/L	0.082	25.07 mg/L	0.082	0.33%
QC value within limits for Ca 227.546		Recovery = 100.27%				

Sequence No.: 62
 Sample ID: 1112063S
 Analyst:
 Initial Sample Wt: 1 g
 Dilution:

Autosampler Location: 72
 Date Collected: 7/3/2008 4:20:38 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

Mean Data: 1112063S

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7227351.2	0.9549 mg/L	0.00107			0.11%
Ag 328.068†	10799.6	0.0462 mg/L	0.00003			0.07%
Al 308.215†	2479487.5	84.88 mg/L	0.032			0.04%
As 188.979†	127.5	0.1042 mg/L	0.00262			2.51%
B 249.772†	333623.3	0.8889 mg/L	0.01099			1.24%
Ba 233.527†	422994.6	2.418 mg/L	0.0093			0.38%
Be 313.107†	300646.1	0.0520 mg/L	0.00017			0.33%
Cd 226.502†	15720.5	0.0497 mg/L	0.00007			0.14%
Co 228.616†	33662.5	0.5692 mg/L	0.00210			0.37%
Cr 267.716†	79099.1	0.3138 mg/L	0.00124			0.40%
Cu 324.752†	92206.9	0.3596 mg/L	0.00112			0.31%
Fe 238.863†	7700597.2	211.7 mg/L	0.17			0.08%
K 404.721†	6214.9	26.91 mg/L	0.061			0.23%
Mg 279.077†	1267029.8	39.06 mg/L	0.145			0.37%
Mn 257.610†	9464113.6	10.62 mg/L	0.013			0.12%
Mo 202.031†	19215.2	0.5039 mg/L	0.00324			0.64%
Ni 231.604†	70860.7	0.6924 mg/L	0.00270			0.39%
Na 330.237†	25066.4	19.69 mg/L	0.092			0.47%
Pb 220.353†	7884.4	0.5643 mg/L	0.00128			0.23%
Sb 206.836†	2858.8	0.4564 mg/L	0.00060			0.13%
Se 196.026†	1714.4	0.9549 mg/L	0.00454			0.48%
Sn 189.927†	86340.8	5.122 mg/L	0.0168			0.33%
Ti 337.279†	580628.5	0.7438 mg/L	0.00427			0.57%
Tl 190.801†	10151.0	1.891 mg/L	0.0021			0.11%
V 292.402†	99787.1	0.6273 mg/L	0.00291			0.46%
Zn 206.200†	98615.8	1.073 mg/L	0.0030			0.28%
Ca 227.546†	43603.0	104.1 mg/L	0.49			0.47%
Sr 460.733†	1743746.1	1.884 mg/L	0.0090			0.48%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 63
 Sample ID: 1112063A
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 73
 Date Collected: 7/3/2008 4:26:29 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

Mean Data: 1112063A

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	6916748.9	0.9138 mg/L	0.00124			0.14%
Ag 328.068†	9420.6	0.0421 mg/L	0.00057			1.35%
Al 308.215†	2427019.2	83.08 mg/L	0.821			0.99%
As 188.979†	571.9	0.2025 mg/L	0.00698			3.45%
B 249.772†	339632.7	0.8832 mg/L	0.02132			2.41%
Ba 233.527†	429892.4	2.456 mg/L	0.0247			1.00%
Be 313.107†	294381.4	0.0510 mg/L	0.00053			1.04%
Cd 226.502†	15055.6	0.0457 mg/L	0.00004			0.09%
Co 228.616†	32366.8	0.5462 mg/L	0.00333			0.61%
Cr 267.716†	76694.9	0.3044 mg/L	0.00398			1.31%
Cu 324.752†	100465.7	0.3894 mg/L	0.00415			1.06%
Fe 238.863†	8076001.4	222.0 mg/L	0.02			0.01%
K 404.721†	8046.6	30.28 mg/L	0.043			0.14%
Mg 279.077†	1511999.6	46.59 mg/L	0.460			0.99%
Mn 257.610†	15191284.1	17.04 mg/L	0.008			0.05%
Mo 202.031†	18113.0	0.4751 mg/L	0.00070			0.15%
Ni 231.604†	67768.7	0.6618 mg/L	0.00688			1.04%
Na 330.237†	25421.3	20.18 mg/L	0.040			0.20%
Pb 220.353†	7818.9	0.5635 mg/L	0.00032			0.06%
Sb 206.836†	3008.1	0.4806 mg/L	0.00584			1.22%

Se 196.026†	1761.8	0.9811 mg/L	0.01601	1.63%
Sn 189.927†	-18.2	-0.0035 mg/L	0.00043	12.45%
Ti 337.279†	624390.5	0.7984 mg/L	0.01273	1.59%
Tl 190.801†	9261.9	1.734 mg/L	0.0014	0.08%
V 292.402†	94254.7	0.5961 mg/L	0.00459	0.77%
Zn 206.200†	89710.6	0.9696 mg/L	0.00801	0.83%
Ca 227.546†	217980.9	506.7 mg/L	4.61	0.91%
Sr 460.733†	404261.9	0.4314 mg/L	0.00479	1.11%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 64
 Sample ID: 1112063L
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 74
 Date Collected: 7/3/2008 4:30:56 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

Mean Data: 1112063L

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7454716.3	0.9849 mg/L		0.00051			0.05%
Ag 328.068†	-1652.6	-0.0011 mg/L		0.00023			20.12%
Al 308.215†	501761.7	17.18 mg/L		0.154			0.90%
As 188.979†	95.4	0.0379 mg/L		0.00024			0.64%
B 249.772†	39705.3	0.0086 mg/L		0.00422			49.25%
Ba 233.527†	23787.3	0.1345 mg/L		0.00016			0.12%
Be 313.107†	4640.1	0.0008 mg/L		0.00001			0.76%
Cd 226.502†	1126.1	0.0002 mg/L		0.00001			2.81%
Co 228.616†	1325.9	0.0205 mg/L		0.00011			0.51%
Cr 267.716†	6142.1	0.0247 mg/L		0.00003			0.11%
Cu 324.752†	7322.5	0.0319 mg/L		0.00014			0.42%
Fe 238.863†	1789954.8	49.20 mg/L		0.076			0.15%
K 404.721†	1341.0	4.919 mg/L		0.2256			4.59%
Mg 279.077†	330253.1	10.18 mg/L		0.092			0.90%
Mn 257.610†	3336390.0	3.742 mg/L		0.0009			0.02%
Mo 202.031†	6.2	0.0018 mg/L		0.00011			5.97%
Ni 231.604†	4615.2	0.0448 mg/L		0.00005			0.10%
Na 330.237†	88.4	0.3110 mg/L		0.04985			16.03%
Pb 220.353†	286.3	0.0217 mg/L		0.00008			0.39%
Sb 206.836†	6.4	0.0018 mg/L		0.00047			25.57%
Se 196.026†	-17.8	0.0069 mg/L		0.00154			22.30%
Sn 189.927†	-154.8	-0.0098 mg/L		0.00015			1.50%
Ti 337.279†	52850.8	0.0672 mg/L		0.00023			0.34%
Tl 190.801†	-56.7	-0.0057 mg/L		0.00114			19.95%
V 292.402†	2740.2	0.0241 mg/L		0.00002			0.10%
Zn 206.200†	11649.0	0.1226 mg/L		0.00007			0.06%
Ca 227.546†	46074.5	107.1 mg/L		0.72			0.67%
Sr 460.733†	74952.8	0.0798 mg/L		0.00051			0.64%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 65
 Sample ID: 1113523 1/50
 Analyst:
 Initial Sample Wt: 1.01 g
 Dilution: 50X

Autosampler Location: 75
 Date Collected: 7/3/2008 4:36:43 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 100 mL

Mean Data: 1113523 1/50

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7722725.2	1.020 mg/L		0.0051			0.50%
Ag 328.068†	442.5	0.0012 mg/L		0.00009			6.99%
Al 308.215†	15880.9	0.5434 mg/L		0.00992			1.82%
As 188.979†	6.9	0.0014 mg/L		0.00159			111.30%
B 249.772†	3264.6	0.0160 mg/L		0.00064			4.02%
Ba 233.527†	1986.5	0.0114 mg/L		0.00006			0.57%
Be 313.107†	184.3	0.0000 mg/L		0.00001			31.67%
Cd 226.502†	843.5	0.0038 mg/L		0.00004			0.94%
Co 228.616†	124.6	0.0021 mg/L		0.00006			2.72%
Cr 267.716†	88.1	0.0004 mg/L		0.00010			28.37%

Cu 324.752†	2657.4	0.0097 mg/L	0.00006	0.60%
Fe 238.863†	11391.3	0.3119 mg/L	0.00266	0.85%
K 404.721†	264.6	0.9870 mg/L	0.04434	4.49%
Mg 279.077†	58785.2	1.806 mg/L	0.0127	0.70%
Mn 257.610†	18738.6	0.0210 mg/L	0.00002	0.11%
Mo 202.031†	14.6	0.0004 mg/L	0.00008	22.16%
Ni 231.604†	31.5	0.0003 mg/L	0.00005	16.68%
Na 330.237†	3110.7	2.339 mg/L	0.0542	2.32%
Pb 220.353†	23.4	0.0018 mg/L	0.00012	6.55%
Sb 206.836†	6.5	0.0010 mg/L	0.00014	13.04%
Se 196.026†	6.5	0.0034 mg/L	0.00264	76.82%
Sn 189.927†	-39.7	-0.0022 mg/L	0.00013	5.75%
Ti 337.279†	25835.0	0.0331 mg/L	0.00116	3.49%
Tl 190.801†	6.2	0.0014 mg/L	0.00155	111.62%
V 292.402†	45.7	0.0003 mg/L	0.00009	29.09%
Zn 206.200†	168787.3	1.892 mg/L	0.0100	0.53%
Ca 227.546†	4658.2	10.75 mg/L	0.050	0.46%
Sr 460.733†	4438.1	0.0047 mg/L	0.00032	6.84%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 66
Sample ID: PBW-M4700042
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 7/3/2008 4:42:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: PBW-M4700042

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7682335.8	1.015 mg/L	0.0014			0.14%
Ag 328.068†	223.3	0.0006 mg/L	0.00004			6.17%
Al 308.215†	52.2	0.0018 mg/L	0.00067			37.74%
As 188.979†	5.2	0.0012 mg/L	0.00097			80.79%
B 249.772†	1645.3	0.0086 mg/L	0.00048			5.62%
Ba 233.527†	12.1	0.0001 mg/L	0.00005			75.41%
Be 313.107†	425.9	0.0001 mg/L	0.00002			29.24%
Cd 226.502†	-1.0	0.0000 mg/L	0.00008			>999.9%
Co 228.616†	-2.3	0.0000 mg/L	0.00002			50.52%
Cr 267.716†	12.6	0.0000 mg/L	0.00011			223.95%
Cu 324.752†	187.2	0.0007 mg/L	0.00010			14.35%
Fe 238.863†	505.4	0.0139 mg/L	0.00161			11.59%
K 404.721†	153.8	0.6448 mg/L	0.56400			87.47%
Mg 279.077†	-12.4	-0.0004 mg/L	0.00058			156.67%
Mn 257.610†	597.3	0.0007 mg/L	0.00004			5.48%
Mo 202.031†	8.3	0.0002 mg/L	0.00004			18.06%
Ni 231.604†	-7.6	-0.0001 mg/L	0.00000			5.60%
Na 330.237†	193.3	0.1450 mg/L	0.03520			24.27%
Pb 220.353†	-14.7	-0.0010 mg/L	0.00021			20.30%
Sb 206.836†	0.3	0.0000 mg/L	0.00087			>999.9%
Se 196.026†	1.7	0.0009 mg/L	0.00026			29.06%
Sn 189.927†	34.1	0.0020 mg/L	0.00009			4.43%
Ti 337.279†	198.1	0.0003 mg/L	0.00003			10.40%
Tl 190.801†	2.6	0.0005 mg/L	0.00089			185.85%
V 292.402†	-1.9	0.0000 mg/L	0.00001			60.91%
Zn 206.200†	362.6	0.0041 mg/L	0.00016			4.03%
Ca 227.546†	8.0	0.0188 mg/L	0.00852			45.34%
Sr 460.733†	-1378.5	-0.0015 mg/L	0.00012			8.27%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 67
Sample ID: LCSW-M4700042
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 77
Date Collected: 7/3/2008 4:48:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: LCSW-M4700042

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
---------	--------------------------	-------------------	----------	--------------------	----------	-----

Y 371.029	7614453.7	1.006 mg/L	0.0020	0.20%
Ag 328.068†	18574.2	0.0521 mg/L	0.00021	0.40%
Al 308.215†	55683.3	1.906 mg/L	0.0078	0.41%
As 188.979†	171.9	0.0398 mg/L	0.00048	1.20%
B 249.772†	178933.3	0.9374 mg/L	0.00323	0.34%
Ba 233.527†	347801.4	1.994 mg/L	0.0068	0.34%
Be 313.107†	278513.3	0.0481 mg/L	0.00016	0.33%
Cd 226.502†	11020.9	0.0494 mg/L	0.00010	0.21%
Co 228.616†	29698.2	0.5104 mg/L	0.00070	0.14%
Cr 267.716†	50414.3	0.1986 mg/L	0.00038	0.19%
Cu 324.752†	68600.2	0.2499 mg/L	0.00091	0.36%
Fe 238.863†	37104.7	1.019 mg/L	0.0061	0.59%
K 404.721†	4107.3	17.19 mg/L	0.346	2.01%
Mg 279.077†	64964.3	1.996 mg/L	0.0067	0.33%
Mn 257.610†	440220.6	0.4937 mg/L	0.00201	0.41%
Mo 202.031†	19159.0	0.4948 mg/L	0.00078	0.16%
Ni 231.604†	52791.3	0.5170 mg/L	0.00244	0.47%
Na 330.237†	23119.7	17.34 mg/L	0.087	0.50%
Pb 220.353†	7342.5	0.5229 mg/L	0.00121	0.23%
Sb 206.836†	2968.2	0.4706 mg/L	0.00124	0.26%
Se 196.026†	1856.6	0.9578 mg/L	0.00152	0.16%
Sn 189.927†	87686.1	5.210 mg/L	0.0255	0.49%
Ti 337.279†	382338.8	0.4905 mg/L	0.00125	0.26%
Tl 190.801†	10914.7	2.018 mg/L	0.0012	0.06%
V 292.402†	83200.4	0.4955 mg/L	0.00216	0.44%
Zn 206.200†	44003.2	0.4931 mg/L	0.00076	0.15%
Ca 227.546†	867.7	2.019 mg/L	0.0244	1.21%
Sr 460.733†	1522789.1	1.646 mg/L	0.0083	0.50%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 68
Sample ID: 1111376 1/10
Analyst:
Initial Sample Wt:
Dilution: 10X

Autosampler Location: 78
Date Collected: 7/3/2008 4:53:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 1111376 1/10

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7482299.4	0.9885 mg/L		0.00300			0.30%
Ag 328.068†	353.7	0.0010 mg/L		0.00046			47.13%
Al 308.215†	642.5	0.0218 mg/L		0.00062			2.83%
As 188.979†	12.4	0.0026 mg/L		0.00096			36.65%
B 249.772†	3670.9	0.0193 mg/L		0.00140			7.25%
Ba 233.527†	684.1	0.0039 mg/L		0.00005			1.17%
Be 313.107†	-10.7	0.0000 mg/L		0.00000			157.32%
Cd 226.502†	21.1	0.0001 mg/L		0.00003			35.19%
Co 228.616†	12.4	0.0002 mg/L		0.00004			17.48%
Cr 267.716†	162.3	0.0006 mg/L		0.00002			3.84%
Cu 324.752†	1600.8	0.0058 mg/L		0.00019			3.28%
Fe 238.863†	1604.4	0.0428 mg/L		0.00166			3.88%
K 404.721†	617.8	2.467 mg/L		0.2077			8.42%
Mg 279.077†	91021.7	2.796 mg/L		0.0090			0.32%
Mn 257.610†	1199.7	0.0013 mg/L		0.00002			1.64%
Mo 202.031†	661.2	0.0171 mg/L		0.00001			0.04%
Ni 231.604†	324.6	0.0032 mg/L		0.00012			3.69%
Na 330.237†	84978.4	63.73 mg/L		0.133			0.21%
Pb 220.353†	26.5	0.0020 mg/L		0.00007			3.65%
Sb 206.836†	8.6	0.0014 mg/L		0.00016			11.37%
Se 196.026†	7.3	0.0037 mg/L		0.00168			45.13%
Sn 189.927†	-2.8	0.0000 mg/L		0.00055			>999.9%
Ti 337.279†	47.4	0.0000 mg/L		0.00008			387.28%
Tl 190.801†	2.9	0.0008 mg/L		0.00060			79.83%
V 292.402†	9.5	0.0001 mg/L		0.00002			34.70%
Zn 206.200†	667.6	0.0073 mg/L		0.00006			0.79%
Ca 227.546†	4540.2	10.48 mg/L		0.013			0.12%
Sr 460.733†	28777.5	0.0310 mg/L		0.00017			0.56%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 69
 Sample ID: 1111376L 1/10
 Analyst:
 Initial Sample Wt:
 Dilution: 10X

Autosampler Location: 79
 Date Collected: 7/3/2008 4:59:40 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

 Mean Data: 1111376L 1/10

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7612505.5	1.006	mg/L	0.0022			0.21%
Ag 328.068†	238.5	0.0007	mg/L	0.00018			27.76%
Al 308.215†	274.0	0.0093	mg/L	0.00028			2.98%
As 188.979†	7.4	0.0017	mg/L	0.00038			22.75%
B 249.772†	2177.0	0.0114	mg/L	0.00048			4.22%
Ba 233.527†	151.9	0.0009	mg/L	0.00003			3.69%
Be 313.107†	279.9	0.0000	mg/L	0.00000			2.77%
Cd 226.502†	28.5	0.0001	mg/L	0.00003			26.80%
Co 228.616†	4.5	0.0001	mg/L	0.00002			20.90%
Cr 267.716†	-39.0	-0.0002	mg/L	0.00004			26.56%
Cu 324.752†	376.4	0.0014	mg/L	0.00001			0.94%
Fe 238.863†	687.1	0.0186	mg/L	0.00124			6.65%
K 404.721†	322.5	1.327	mg/L	0.0163			1.23%
Mg 279.077†	17941.7	0.5511	mg/L	0.00164			0.30%
Mn 257.610†	525.3	0.0006	mg/L	0.00001			1.27%
Mo 202.031†	133.4	0.0034	mg/L	0.00022			6.35%
Ni 231.604†	49.8	0.0005	mg/L	0.00005			10.93%
Na 330.237†	14981.7	11.23	mg/L	0.008			0.07%
Pb 220.353†	-1.8	-0.0001	mg/L	0.00013			125.84%
Sb 206.836†	-3.5	-0.0006	mg/L	0.00083			150.61%
Se 196.026†	3.9	0.0020	mg/L	0.00060			29.53%
Sn 189.927†	13.0	0.0008	mg/L	0.00023			28.58%
Ti 337.279†	-34.3	-0.0001	mg/L	0.00004			82.88%
Tl 190.801†	8.9	0.0017	mg/L	0.00033			19.33%
V 292.402†	3.5	0.0000	mg/L	0.00001			60.08%
Zn 206.200†	324.0	0.0036	mg/L	0.00010			2.89%
Ca 227.546†	906.6	2.092	mg/L	0.0306			1.46%
Sr 460.733†	4181.8	0.0045	mg/L	0.00019			4.19%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 70
 Sample ID: PBT-M4700059
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 80
 Date Collected: 7/3/2008 5:06:11 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

 Mean Data: PBT-M4700059

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7643190.0	1.010	mg/L	0.0001			0.01%
Ag 328.068†	369.0	0.0010	mg/L	0.00010			9.71%
Al 308.215†	56.2	0.0019	mg/L	0.00039			20.04%
As 188.979†	-2.6	-0.0006	mg/L	0.00068			113.91%
B 249.772†	1139.2	0.0059	mg/L	0.00037			6.24%
Ba 233.527†	29.9	0.0002	mg/L	0.00002			12.98%
Be 313.107†	239.2	0.0000	mg/L	0.00001			29.75%
Cd 226.502†	7.8	0.0000	mg/L	0.00003			74.33%
Co 228.616†	11.8	0.0002	mg/L	0.00000			0.60%
Cr 267.716†	20.2	0.0001	mg/L	0.00018			223.27%
Cu 324.752†	232.1	0.0008	mg/L	0.00011			12.80%
Fe 238.863†	548.6	0.0151	mg/L	0.00014			0.95%
K 404.721†	322.7	1.353	mg/L	0.0457			3.37%
Mg 279.077†	1.5	0.0001	mg/L	0.00097			>999.9%
Mn 257.610†	1537.3	0.0017	mg/L	0.00003			1.49%
Mo 202.031†	11.2	0.0003	mg/L	0.00005			18.62%
Ni 231.604†	2.8	0.0000	mg/L	0.00010			348.20%
Na 330.237†	12.7	0.0096	mg/L	0.09886			>999.9%
Pb 220.353†	-14.2	-0.0010	mg/L	0.00010			10.05%
Sb 206.836†	5.9	0.0009	mg/L	0.00107			113.80%
Se 196.026†	3.5	0.0018	mg/L	0.00141			77.29%

Sn 189.927†	83.0	0.0049 mg/L	0.00010	1.95%
Ti 337.279†	8.0	0.0000 mg/L	0.00000	18.88%
Tl 190.801†	3.5	0.0007 mg/L	0.00031	47.78%
V 292.402†	-21.2	-0.0001 mg/L	0.00009	72.77%
Zn 206.200†	154.3	0.0017 mg/L	0.00003	1.55%
Ca 227.546†	10.9	0.0254 mg/L	0.00901	35.46%
Sr 460.733†	71.1	0.0001 mg/L	0.00009	115.38%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

```

=====
Sequence No.: 71                               Autosampler Location: 81
Sample ID: LCST 1/5                           Date Collected: 7/3/2008 5:11:54 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution: 5X                                 Sample Prep Vol: 50 mL
=====

```

Mean Data: LCST 1/5

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7756393.0	1.025 mg/L		0.0108			1.06%
Ag 328.068†	359610.1	1.007 mg/L		0.0134			1.33%
Al 308.215†	137.8	0.0047 mg/L		0.00123			25.99%
As 188.979†	4075.7	0.9390 mg/L		0.01274			1.36%
B 249.772†	1341.8	0.0070 mg/L		0.00021			3.03%
Ba 233.527†	162286.2	0.9306 mg/L		0.01370			1.47%
Be 313.107†	-462.7	-0.0001 mg/L		0.00002			20.45%
Cd 226.502†	42572.8	0.1912 mg/L		0.00316			1.65%
Co 228.616†	0.6	0.0000 mg/L		0.00001			88.38%
Cr 267.716†	236921.2	0.9334 mg/L		0.01271			1.36%
Cu 324.752†	142.4	0.0005 mg/L		0.00026			49.33%
Fe 238.863†	376.7	0.0104 mg/L		0.00464			44.86%
K 404.721†	270.3	1.133 mg/L		0.3375			29.80%
Mg 279.077†	54.2	0.0017 mg/L		0.00193			115.41%
Mn 257.610†	570.3	0.0006 mg/L		0.00003			4.19%
Mo 202.031†	1.8	0.0000 mg/L		0.00004			87.37%
Ni 231.604†	-12.7	-0.0001 mg/L		0.00005			39.05%
Na 330.237†	26.7	0.0200 mg/L		0.04008			199.91%
Pb 220.353†	14374.7	1.023 mg/L		0.0107			1.05%
Sb 206.836†	136.4	0.0216 mg/L		0.00138			6.38%
Se 196.026†	356.0	0.1836 mg/L		0.00298			1.62%
Sn 189.927†	29.9	0.0018 mg/L		0.00009			5.03%
Ti 337.279†	13.9	0.0000 mg/L		0.00010			569.12%
Tl 190.801†	5.7	0.0010 mg/L		0.00047			44.40%
V 292.402†	-486.9	-0.0029 mg/L		0.00003			1.03%
Zn 206.200†	286.4	0.0032 mg/L		0.00010			3.19%
Ca 227.546†	23.4	0.0543 mg/L		0.01172			21.60%
Sr 460.733†	-1195.6	-0.0013 mg/L		0.00008			6.27%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

```

=====
Sequence No.: 72                               Autosampler Location: 4
Sample ID: CCV                               Date Collected: 7/3/2008 5:17:36 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

```

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7346720.3	0.9706 mg/L		0.00257			0.26%
Ag 328.068†	186185.2	0.5215 mg/L		0.00096	0.5215 mg/L	0.00096	0.18%
QC value within limits for Ag 328.068			Recovery = 104.31%				
Al 308.215†	298202.7	10.21 mg/L		0.017	10.21 mg/L	0.017	0.17%
QC value within limits for Al 308.215			Recovery = 102.05%				
As 188.979†	4566.3	1.052 mg/L		0.0042	1.052 mg/L	0.0042	0.40%
QC value within limits for As 188.979			Recovery = 105.24%				
B 249.772†	479162.5	2.500 mg/L		0.0199	2.500 mg/L	0.0199	0.80%
QC value within limits for B 249.772			Recovery = 100.01%				
Ba 233.527†	1800094.8	10.32 mg/L		0.014	10.32 mg/L	0.014	0.14%
QC value within limits for Ba 233.527			Recovery = 103.22%				

Be 313.107†	1503937.4	0.2599 mg/L	0.00008	0.2599 mg/L	0.00008	0.03%
QC value within limits for Be 313.107		Recovery = 103.96%				
Cd 226.502†	116021.7	0.5207 mg/L	0.00001	0.5207 mg/L	0.00001	0.00%
QC value within limits for Cd 226.502		Recovery = 104.13%				
Co 228.616†	154113.9	2.649 mg/L	0.0022	2.649 mg/L	0.0022	0.08%
QC value within limits for Co 228.616		Recovery = 105.95%				
Cr 267.716†	133184.3	0.5248 mg/L	0.00045	0.5248 mg/L	0.00045	0.09%
QC value within limits for Cr 267.716		Recovery = 104.96%				
Cu 324.752†	342568.5	1.247 mg/L	0.0026	1.247 mg/L	0.0026	0.21%
QC value within limits for Cu 324.752		Recovery = 99.80%				
Fe 238.863†	189321.4	5.198 mg/L	0.0106	5.198 mg/L	0.0106	0.20%
QC value within limits for Fe 238.863		Recovery = 103.95%				
K 404.721†	6142.2	25.41 mg/L	0.440	25.41 mg/L	0.440	1.73%
QC value within limits for K 404.721		Recovery = 101.63%				
Mg 279.077†	851740.6	26.16 mg/L	0.027	26.16 mg/L	0.027	0.10%
QC value within limits for Mg 279.077		Recovery = 104.66%				
Mn 257.610†	700191.9	0.7849 mg/L	0.00070	0.7849 mg/L	0.00070	0.09%
QC value within limits for Mn 257.610		Recovery = 104.66%				
Mo 202.031†	98435.0	2.542 mg/L	0.0229	2.542 mg/L	0.0229	0.90%
QC value within limits for Mo 202.031		Recovery = 101.68%				
Ni 231.604†	217373.4	2.129 mg/L	0.0013	2.129 mg/L	0.0013	0.06%
QC value within limits for Ni 231.604		Recovery = 106.43%				
Na 330.237†	32640.7	24.51 mg/L	0.049	24.51 mg/L	0.049	0.20%
QC value within limits for Na 330.237		Recovery = 98.04%				
Pb 220.353†	7525.1	0.5367 mg/L	0.00194	0.5367 mg/L	0.00194	0.36%
QC value within limits for Pb 220.353		Recovery = 107.34%				
Sb 206.836†	32456.2	5.145 mg/L	0.0107	5.145 mg/L	0.0107	0.21%
QC value within limits for Sb 206.836		Recovery = 102.91%				
Se 196.026†	1010.2	0.5226 mg/L	0.00002	0.5226 mg/L	0.00002	0.00%
QC value within limits for Se 196.026		Recovery = 104.52%				
Sn 189.927†	87740.5	5.213 mg/L	0.0148	5.213 mg/L	0.0148	0.28%
QC value within limits for Sn 189.927		Recovery = 104.26%				
Ti 337.279†	1998476.8	2.564 mg/L	0.0031	2.564 mg/L	0.0031	0.12%
QC value within limits for Ti 337.279		Recovery = 102.56%				
Tl 190.801†	5954.0	1.102 mg/L	0.0020	1.102 mg/L	0.0020	0.18%
QC value greater than the upper limit for Tl 190.801		Recovery = 110.19%				
V 292.402†	437535.2	2.606 mg/L	0.0065	2.606 mg/L	0.0065	0.25%
QC value within limits for V 292.402		Recovery = 104.23%				
Zn 206.200†	92211.9	1.032 mg/L	0.0009	1.032 mg/L	0.0009	0.09%
QC value within limits for Zn 206.200		Recovery = 103.21%				
Ca 227.546†	10887.5	25.20 mg/L	0.004	25.20 mg/L	0.004	0.02%
QC value within limits for Ca 227.546		Recovery = 100.81%				
Sr 460.733†	2247971.1	2.429 mg/L	0.0036	2.429 mg/L	0.0036	0.15%
QC value within limits for Sr 460.733		Recovery = 97.18%				
QC Failed. Continue with analysis.						

Sequence No.: 73
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 7/3/2008 5:23:25 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7604974.8	1.005 mg/L		0.0061			0.60%
Ag 328.068†	285.6	0.0008 mg/L		0.00011	0.0008 mg/L	0.00011	13.99%
QC value within limits for Ag 328.068		Recovery = Not calculated					
Al 308.215†	304.2	0.0104 mg/L		0.00259	0.0104 mg/L	0.00259	24.92%
QC value within limits for Al 308.215		Recovery = Not calculated					
As 188.979†	8.5	0.0020 mg/L		0.00302	0.0020 mg/L	0.00302	152.98%
QC value within limits for As 188.979		Recovery = Not calculated					
B 249.772†	6172.0	0.0324 mg/L		0.00468	0.0324 mg/L	0.00468	14.41%
QC value within limits for B 249.772		Recovery = Not calculated					
Ba 233.527†	120.4	0.0007 mg/L		0.00017	0.0007 mg/L	0.00017	25.00%
QC value within limits for Ba 233.527		Recovery = Not calculated					
Be 313.107†	286.3	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	48.79%
QC value within limits for Be 313.107		Recovery = Not calculated					
Cd 226.502†	36.6	0.0002 mg/L		0.00006	0.0002 mg/L	0.00006	38.55%
QC value within limits for Cd 226.502		Recovery = Not calculated					

Co 228.616†	23.1	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	10.86%
QC value within limits for Co 228.616		Recovery = Not calculated				
Cr 267.716†	-9.4	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	35.76%
QC value within limits for Cr 267.716		Recovery = Not calculated				
Cu 324.752†	260.1	0.0009 mg/L	0.00037	0.0009 mg/L	0.00037	39.27%
QC value within limits for Cu 324.752		Recovery = Not calculated				
Fe 238.863†	361.2	0.0099 mg/L	0.00252	0.0099 mg/L	0.00252	25.40%
QC value within limits for Fe 238.863		Recovery = Not calculated				
K 404.721†	286.1	1.199 mg/L	0.5350	1.199 mg/L	0.5350	44.62%
QC value greater than the upper limit for K 404.721		Recovery = Not calculated				
Mg 279.077†	-18.4	-0.0006 mg/L	0.00051	-0.0006 mg/L	0.00051	91.01%
QC value within limits for Mg 279.077		Recovery = Not calculated				
Mn 257.610†	296.5	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	4.62%
QC value within limits for Mn 257.610		Recovery = Not calculated				
Mo 202.031†	113.1	0.0029 mg/L	0.00064	0.0029 mg/L	0.00064	21.86%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Ni 231.604†	-4.2	0.0000 mg/L	0.00022	0.0000 mg/L	0.00022	540.03%
QC value within limits for Ni 231.604		Recovery = Not calculated				
Na 330.237†	-98.3	-0.0737 mg/L	0.00657	-0.0737 mg/L	0.00657	8.92%
QC value within limits for Na 330.237		Recovery = Not calculated				
Pb 220.353†	-7.0	-0.0005 mg/L	0.00035	-0.0005 mg/L	0.00035	70.27%
QC value within limits for Pb 220.353		Recovery = Not calculated				
Sb 206.836†	62.5	0.0099 mg/L	0.00124	0.0099 mg/L	0.00124	12.52%
QC value within limits for Sb 206.836		Recovery = Not calculated				
Se 196.026†	4.8	0.0025 mg/L	0.00143	0.0025 mg/L	0.00143	57.58%
QC value within limits for Se 196.026		Recovery = Not calculated				
Sn 189.927†	111.4	0.0066 mg/L	0.00090	0.0066 mg/L	0.00090	13.67%
QC value within limits for Sn 189.927		Recovery = Not calculated				
Ti 337.279†	263.6	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	12.93%
QC value within limits for Ti 337.279		Recovery = Not calculated				
Tl 190.801†	13.7	0.0025 mg/L	0.00062	0.0025 mg/L	0.00062	24.50%
QC value within limits for Tl 190.801		Recovery = Not calculated				
V 292.402†	-6.0	0.0000 mg/L	0.00008	0.0000 mg/L	0.00008	224.87%
QC value within limits for V 292.402		Recovery = Not calculated				
Zn 206.200†	21.0	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	46.34%
QC value within limits for Zn 206.200		Recovery = Not calculated				
Ca 227.546†	15.6	0.0361 mg/L	0.01580	0.0361 mg/L	0.01580	43.81%
QC value within limits for Ca 227.546		Recovery = Not calculated				
Sr 460.733†	19.3	0.0000 mg/L	0.00019	0.0000 mg/L	0.00019	902.99%
QC value within limits for Sr 460.733		Recovery = Not calculated				
QC Failed. Continue with analysis.						

Sequence No.: 74
 Sample ID: LCST-M4700059
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 82
 Date Collected: 7/3/2008 5:29:12 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: LCST-M4700059

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7613326.5	1.006 mg/L	0.0066			0.66%
Ag 328.068†	1780366.7	4.984 mg/L	0.0005			0.01%
Al 308.215†	155.7	0.0053 mg/L	0.00215			40.29%
As 188.979†	19649.4	4.527 mg/L	0.0178			0.39%
B 249.772†	3854.1	0.0201 mg/L	0.00158			7.86%
Ba 233.527†	806114.9	4.623 mg/L	0.0002			0.00%
Be 313.107†	-2968.9	-0.0005 mg/L	0.00001			2.36%
Cd 226.502†	207310.1	0.9313 mg/L	0.00182			0.20%
Co 228.616†	-40.8	-0.0007 mg/L	0.00009			12.76%
Cr 267.716†	1176887.6	4.637 mg/L	0.0004			0.01%
Cu 324.752†	402.3	0.0015 mg/L	0.00008			5.48%
Fe 238.863†	1240.8	0.0341 mg/L	0.00174			5.10%
K 404.721†	349.2	1.463 mg/L	0.1594			10.89%
Mg 279.077†	-39.6	-0.0012 mg/L	0.00095			79.31%
Mn 257.610†	1935.9	0.0022 mg/L	0.00006			2.87%
Mo 202.031†	73.7	0.0019 mg/L	0.00006			3.25%
Ni 231.604†	29.7	0.0003 mg/L	0.00002			6.23%
Na 330.237†	21.0	0.0159 mg/L	0.01609			101.33%
Pb 220.353†	72170.4	5.138 mg/L	0.0043			0.08%

Sb 206.836†	701.5	0.1112 mg/L	0.00011	0.10%
Se 196.026†	1693.0	0.8731 mg/L	0.00658	0.75%
Sn 189.927†	289.9	0.0172 mg/L	0.00191	11.07%
Ti 337.279†	303.1	0.0004 mg/L	0.00003	7.30%
Tl 190.801†	13.2	0.0024 mg/L	0.00046	18.85%
V 292.402†	-2382.0	-0.0142 mg/L	0.00007	0.47%
Zn 206.200†	202.4	0.0023 mg/L	0.00016	7.14%
Ca 227.546†	27.4	0.0639 mg/L	0.03326	52.06%
Sr 460.733†	-1233.9	-0.0013 mg/L	0.00025	18.97%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 75
 Sample ID: Method Blank 7/1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 83
 Date Collected: 7/3/2008 5:35:00 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: Method Blank 7/1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	6631198.5	0.8761	mg/L	0.00221			0.25%
Ag 328.068†	980.1	0.0027	mg/L	0.00090			32.61%
Al 308.215†	1843.3	0.0631	mg/L	0.00113			1.79%
As 188.979†	10.6	0.0024	mg/L	0.00065			26.55%
B 249.772†	27487.5	0.1443	mg/L	0.00074			0.51%
Ba 233.527†	8282.7	0.0475	mg/L	0.00005			0.10%
Be 313.107†	-1121.6	-0.0002	mg/L	0.00002			10.49%
Cd 226.502†	14.4	0.0001	mg/L	0.00005			92.90%
Co 228.616†	22.2	0.0004	mg/L	0.00021			55.40%
Cr 267.716†	651.9	0.0026	mg/L	0.00006			2.18%
Cu 324.752†	1614.4	0.0059	mg/L	0.00079			13.44%
Fe 238.863†	3185.3	0.0874	mg/L	0.00016			0.18%
K 404.721†	1281.6	5.348	mg/L	0.1425			2.66%
Mg 279.077†	1743.4	0.0536	mg/L	0.00045			0.85%
Mn 257.610†	2304.3	0.0026	mg/L	0.00001			0.48%
Mo 202.031†	41.5	0.0011	mg/L	0.00006			5.83%
Ni 231.604†	260.6	0.0026	mg/L	0.00003			1.03%
Na 330.237†	2359832.5	1770	mg/L	5.6			0.31%
Pb 220.353†	10.2	0.0008	mg/L	0.00035			46.68%
Sb 206.836†	16.7	0.0026	mg/L	0.00049			18.45%
Se 196.026†	12.5	0.0065	mg/L	0.00151			23.30%
Sn 189.927†	196.1	0.0117	mg/L	0.00090			7.72%
Ti 337.279†	284.3	0.0004	mg/L	0.00003			8.85%
Tl 190.801†	-1.8	-0.0003	mg/L	0.00136			478.14%
V 292.402†	60.4	0.0004	mg/L	0.00003			9.22%
Zn 206.200†	14100.2	0.1581	mg/L	0.00012			0.08%
Ca 227.546†	983.1	2.270	mg/L	0.0162			0.72%
Sr 460.733†	3611.1	0.0039	mg/L	0.00011			2.78%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 76
 Sample ID: 1112220
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 84
 Date Collected: 7/3/2008 5:40:43 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1112220

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	6499122.3	0.8586	mg/L	0.00239			0.28%
Ag 328.068†	68902.3	0.1930	mg/L	0.00155			0.80%
Al 308.215†	33266.3	1.138	mg/L	0.0209			1.84%
As 188.979†	-328.2	-0.0760	mg/L	0.00735			9.67%
B 249.772†	43784.2	0.2192	mg/L	0.00263			1.20%
Ba 233.527†	3652.8	0.0208	mg/L	0.00022			1.07%
Be 313.107†	2736.6	0.0005	mg/L	0.00001			1.26%
Cd 226.502†	54461.8	0.2444	mg/L	0.00296			1.21%
Co 228.616†	2147337.0	36.91	mg/L	0.379			1.03%

Cr 267.716†	108159.2	0.4262 mg/L	0.00352	0.83%
Cu 324.752†	67923.3	0.2472 mg/L	0.00308	1.25%
Fe 238.863†	106251.9	2.913 mg/L	0.0040	0.14%
K 404.721†	6441.7	26.33 mg/L	0.092	0.35%
Mg 279.077†	658711.7	20.23 mg/L	0.217	1.07%
Mn 257.610†	Saturated3			
Mo 202.031†	-2820.4	-0.0728 mg/L	0.00139	1.90%
Ni 231.604†	1772192.3	17.35 mg/L	0.184	1.06%
Na 330.237†	2541794.6	1906 mg/L	14.0	0.74%
Pb 220.353†	1722.5	0.1233 mg/L	0.00048	0.39%
Sb 206.836†	-83.6	-0.0132 mg/L	0.00549	41.76%
Se 196.026†	1156.5	0.5970 mg/L	0.02144	3.59%
Sn 189.927†	-188.3	-0.0106 mg/L	0.00182	17.13%
Ti 337.279†	-771.4	-0.0012 mg/L	0.00006	5.03%
Tl 190.801†	-6554.3	-1.210 mg/L	0.0124	1.03%
V 292.402†	-15493.8	-0.0918 mg/L	0.00116	1.27%
Zn 206.200†	418302.7	4.688 mg/L	0.0627	1.34%
Ca 227.546†	25247.7	58.31 mg/L	0.640	1.10%
Sr 460.733†	211032.9	0.2274 mg/L	0.00141	0.62%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 77
Sample ID: 1112220D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 85
Date Collected: 7/3/2008 5:45:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 1112220D

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	6633335.2	0.8764 mg/L		0.00561			0.64%
Ag 328.068†	60664.5	0.1699 mg/L		0.00052			0.31%
Al 308.215†	29519.2	1.010 mg/L		0.0093			0.92%
As 188.979†	-316.6	-0.0732 mg/L		0.00175			2.39%
B 249.772†	38544.0	0.1927 mg/L		0.00091			0.47%
Ba 233.527†	3153.1	0.0179 mg/L		0.00036			2.03%
Be 313.107†	2368.0	0.0004 mg/L		0.00000			0.61%
Cd 226.502†	48291.0	0.2167 mg/L		0.00252			1.16%
Co 228.616†	1910091.6	32.83 mg/L		0.306			0.93%
Cr 267.716†	96116.5	0.3787 mg/L		0.00319			0.84%
Cu 324.752†	59548.2	0.2168 mg/L		0.00215			0.99%
Fe 238.863†	96082.1	2.634 mg/L		0.0003			0.01%
K 404.721†	5740.4	23.47 mg/L		0.486			2.07%
Mg 279.077†	586592.9	18.02 mg/L		0.173			0.96%
Mn 257.610†	Saturated3						
Mo 202.031†	-2521.6	-0.0651 mg/L		0.00096			1.48%
Ni 231.604†	1575732.2	15.43 mg/L		0.148			0.96%
Na 330.237†	2236541.7	1677 mg/L		13.3			0.80%
Pb 220.353†	1525.2	0.1091 mg/L		0.00069			0.63%
Sb 206.836†	-74.4	-0.0117 mg/L		0.00817			69.88%
Se 196.026†	1014.4	0.5236 mg/L		0.01295			2.47%
Sn 189.927†	-245.1	-0.0140 mg/L		0.00077			5.51%
Ti 337.279†	-873.6	-0.0013 mg/L		0.00000			0.36%
Tl 190.801†	-5874.7	-1.085 mg/L		0.0053			0.49%
V 292.402†	-13703.3	-0.0812 mg/L		0.00106			1.31%
Zn 206.200†	371170.2	4.160 mg/L		0.0472			1.13%
Ca 227.546†	22276.9	51.45 mg/L		0.392			0.76%
Sr 460.733†	185233.4	0.1996 mg/L		0.00126			0.63%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 78
Sample ID: 1112220S 1/5
Analyst:
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 86
Date Collected: 7/3/2008 5:49:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 1112220S 1/5

Analyte	Mean Corrected	Calib	Sample
---------	----------------	-------	--------

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	7143169.4	0.9437 mg/L	0.00176			0.19%
Ag 328.068†	385261.0	1.079 mg/L	0.0058			0.54%
Al 308.215†	7332.8	0.2509 mg/L	0.00023			0.09%
As 188.979†	4418.5	1.018 mg/L	0.0047			0.46%
B 249.772†	9876.2	0.0493 mg/L	0.00047			0.95%
Ba 233.527†	168150.0	0.9642 mg/L	0.00796			0.83%
Be 313.107†	-404.6	-0.0001 mg/L	0.00001			16.66%
Cd 226.502†	55146.1	0.2477 mg/L	0.00168			0.68%
Co 228.616†	457855.9	7.870 mg/L	0.0627			0.80%
Cr 267.716†	257812.8	1.016 mg/L	0.0068			0.67%
Cu 324.752†	13862.6	0.0505 mg/L	0.00031			0.61%
Fe 238.863†	25447.5	0.6979 mg/L	0.00063			0.09%
K 404.721†	1845.0	7.601 mg/L	0.2469			3.25%
Mg 279.077†	142711.7	4.384 mg/L	0.0361			0.82%
Mn 257.610†	Saturated3					
Mo 202.031†	-608.4	-0.0157 mg/L	0.00020			1.28%
Ni 231.604†	376993.3	3.692 mg/L	0.0283			0.77%
Na 330.237†	443962.9	332.9 mg/L	1.55			0.47%
Pb 220.353†	14411.5	1.026 mg/L	0.0048			0.47%
Sb 206.836†	122.7	0.0195 mg/L	0.00007			0.37%
Se 196.026†	606.8	0.3131 mg/L	0.00134			0.43%
Sn 189.927†	-83.1	-0.0048 mg/L	0.00004			0.75%
Ti 337.279†	-224.3	-0.0003 mg/L	0.00004			13.14%
Tl 190.801†	-1384.0	-0.2556 mg/L	0.00010			0.04%
V 292.402†	-3694.5	-0.0219 mg/L	0.00015			0.67%
Zn 206.200†	88830.7	0.9956 mg/L	0.00715			0.72%
Ca 227.546†	5025.6	11.61 mg/L	0.037			0.32%
Sr 460.733†	36701.3	0.0395 mg/L	0.00010			0.26%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 79
 Sample ID: 1112220S
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 87
 Date Collected: 7/3/2008 5:55:22 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1112220S

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	6564136.6	0.8672 mg/L	0.00006			0.01%
Ag 328.068†	1946698.1	5.450 mg/L	0.0232			0.43%
Al 308.215†	32768.0	1.121 mg/L	0.0162			1.45%
As 188.979†	21890.4	5.043 mg/L	0.0635			1.26%
B 249.772†	43048.6	0.2155 mg/L	0.00261			1.21%
Ba 233.527†	791828.5	4.541 mg/L	0.0142			0.31%
Be 313.107†	-429.5	-0.0001 mg/L	0.00000			6.56%
Cd 226.502†	255578.6	1.148 mg/L	0.0047			0.41%
Co 228.616†	2094152.9	36.00 mg/L	0.110			0.31%
Cr 267.716†	1221894.4	4.814 mg/L	0.0176			0.37%
Cu 324.752†	65948.8	0.2401 mg/L	0.00057			0.24%
Fe 238.863†	104545.2	2.866 mg/L	0.0116			0.40%
K 404.721†	6353.8	25.98 mg/L	0.041			0.16%
Mg 279.077†	643191.2	19.76 mg/L	0.053			0.27%
Mn 257.610†	Saturated3					
Mo 202.031†	-2774.4	-0.0716 mg/L	0.00051			0.72%
Ni 231.604†	1729715.2	16.94 mg/L	0.058			0.34%
Na 330.237†	2463463.7	1847 mg/L	7.9			0.43%
Pb 220.353†	66001.1	4.700 mg/L	0.0475			1.01%
Sb 206.836†	506.0	0.0803 mg/L	0.00486			6.05%
Se 196.026†	2951.9	1.523 mg/L	0.0149			0.98%
Sn 189.927†	-255.6	-0.0146 mg/L	0.00102			6.96%
Ti 337.279†	-999.7	-0.0015 mg/L	0.00012			7.80%
Tl 190.801†	-6231.4	-1.151 mg/L	0.0052			0.45%
V 292.402†	-17320.5	-0.1027 mg/L	0.00095			0.93%
Zn 206.200†	408466.7	4.578 mg/L	0.0178			0.39%
Ca 227.546†	24599.5	56.81 mg/L	0.605			1.06%
Sr 460.733†	204499.5	0.2203 mg/L	0.00047			0.21%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 80
 Sample ID: 1112220L
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 88
 Date Collected: 7/3/2008 5:59:47 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol: 50 mL

Mean Data: 1112220L

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Y 371.029	7156424.2	0.9455 mg/L	0.00034			0.04%	
Ag 328.068†	14202.8	0.0398 mg/L	0.00003			0.08%	
Al 308.215†	7256.8	0.2483 mg/L	0.00328			1.32%	
As 188.979†	-63.5	-0.0146 mg/L	0.00058			3.97%	
B 249.772†	9443.7	0.0470 mg/L	0.00001			0.01%	
Ba 233.527†	683.4	0.0039 mg/L	0.00011			2.91%	
Be 313.107†	352.3	0.0001 mg/L	0.00001			17.25%	
Cd 226.502†	11507.4	0.0516 mg/L	0.00002			0.05%	
Co 228.616†	460218.0	7.911 mg/L	0.0181			0.23%	
Cr 267.716†	22681.1	0.0894 mg/L	0.00015			0.16%	
Cu 324.752†	13924.3	0.0507 mg/L	0.00037			0.73%	
Fe 238.863†	25684.9	0.7044 mg/L	0.00119			0.17%	
K 404.721†	1911.3	7.877 mg/L	0.4684			5.95%	
Mg 279.077†	143312.0	4.402 mg/L	0.0097			0.22%	
Mn 257.610†	Saturated3						
Mo 202.031†	-608.5	-0.0157 mg/L	0.00005			0.32%	
Ni 231.604†	378678.6	3.708 mg/L	0.0099			0.27%	
Na 330.237†	449797.5	337.3 mg/L	0.41			0.12%	
Pb 220.353†	366.6	0.0262 mg/L	0.00054			2.06%	
Sb 206.836†	-18.3	-0.0029 mg/L	0.00073			25.41%	
Se 196.026†	249.6	0.1289 mg/L	0.00040			0.31%	
Sn 189.927†	-83.5	-0.0048 mg/L	0.00047			9.77%	
Ti 337.279†	-237.4	-0.0004 mg/L	0.00015			42.66%	
Tl 190.801†	-1390.9	-0.2569 mg/L	0.00273			1.06%	
V 292.402†	-3289.2	-0.0195 mg/L	0.00050			2.56%	
Zn 206.200†	89109.2	0.9988 mg/L	0.00243			0.24%	
Ca 227.546†	5083.1	11.74 mg/L	0.044			0.38%	
Sr 460.733†	37395.6	0.0403 mg/L	0.00008			0.19%	

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 81
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 7/3/2008 6:05:37 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Y 371.029	7458652.5	0.9854 mg/L	0.00058			0.06%	
Ag 328.068†	184237.0	0.5161 mg/L	0.00186		0.5161 mg/L	0.00186	0.36%
QC value within limits for Ag 328.068		Recovery = 103.22%					
Al 308.215†	294733.7	10.09 mg/L	0.056		10.09 mg/L	0.056	0.55%
QC value within limits for Al 308.215		Recovery = 100.87%					
As 188.979†	4541.4	1.047 mg/L	0.0027		1.047 mg/L	0.0027	0.25%
QC value within limits for As 188.979		Recovery = 104.67%					
B 249.772†	471710.0	2.461 mg/L	0.0359		2.461 mg/L	0.0359	1.46%
QC value within limits for B 249.772		Recovery = 98.45%					
Ba 233.527†	1801818.7	10.33 mg/L	0.023		10.33 mg/L	0.023	0.22%
QC value within limits for Ba 233.527		Recovery = 103.32%					
Be 313.107†	1504089.8	0.2599 mg/L	0.00058		0.2599 mg/L	0.00058	0.22%
QC value within limits for Be 313.107		Recovery = 103.97%					
Cd 226.502†	114530.1	0.5140 mg/L	0.00353		0.5140 mg/L	0.00353	0.69%
QC value within limits for Cd 226.502		Recovery = 102.80%					
Co 228.616†	152077.4	2.614 mg/L	0.0194		2.614 mg/L	0.0194	0.74%
QC value within limits for Co 228.616		Recovery = 104.55%					
Cr 267.716†	131468.1	0.5181 mg/L	0.00254		0.5181 mg/L	0.00254	0.49%
QC value within limits for Cr 267.716		Recovery = 103.61%					
Cu 324.752†	339951.7	1.238 mg/L	0.0064		1.238 mg/L	0.0064	0.52%

Fe	238.863†	QC value within limits for Fe 238.863	Recovery = 99.04%	186577.2	5.122 mg/L	0.0131	0.26%
K	404.721†	QC value within limits for K 404.721	Recovery = 102.45%	6085.4	25.17 mg/L	0.118	0.47%
Mg	279.077†	QC value within limits for Mg 279.077	Recovery = 100.69%	847981.4	26.05 mg/L	0.068	0.26%
Mn	257.610†	QC value within limits for Mn 257.610	Recovery = 104.20%	726457.1	0.8144 mg/L	0.00005	0.01%
Mo	202.031†	QC value within limits for Mo 202.031	Recovery = 108.58%	97104.9	2.508 mg/L	0.0337	1.34%
Ni	231.604†	QC value within limits for Ni 231.604	Recovery = 100.31%	214407.3	2.100 mg/L	0.0115	0.55%
Na	330.237†	QC value within limits for Na 330.237	Recovery = 104.98%	33835.1	25.40 mg/L	0.155	0.61%
Pb	220.353†	QC value within limits for Pb 220.353	Recovery = 101.62%	7488.1	0.5341 mg/L	0.00018	0.03%
Sb	206.836†	QC value within limits for Sb 206.836	Recovery = 106.81%	32193.2	5.104 mg/L	0.0167	0.33%
Se	196.026†	QC value within limits for Se 196.026	Recovery = 102.08%	1000.3	0.5175 mg/L	0.00114	0.22%
Sn	189.927†	QC value within limits for Sn 189.927	Recovery = 103.50%	87486.6	5.198 mg/L	0.0461	0.89%
Ti	337.279†	QC value within limits for Ti 337.279	Recovery = 103.95%	1999965.7	2.566 mg/L	0.0071	0.28%
Tl	190.801†	QC value within limits for Tl 190.801	Recovery = 102.63%	5910.7	1.094 mg/L	0.0030	0.28%
V	292.402†	QC value within limits for V 292.402	Recovery = 109.39%	431862.9	2.572 mg/L	0.0097	0.38%
Zn	206.200†	QC value within limits for Zn 206.200	Recovery = 102.88%	91002.3	1.019 mg/L	0.0063	0.61%
Ca	227.546†	QC value within limits for Ca 227.546	Recovery = 101.85%	10824.5	25.06 mg/L	0.043	0.17%
Sr	460.733†	QC value within limits for Sr 460.733	Recovery = 100.23%	2262070.7	2.445 mg/L	0.0026	0.11%
		QC value within limits for Sr 460.733	Recovery = 97.79%				

All analyte(s) passed QC.

Sequence No.: 82
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 7/3/2008 6:11:27 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7752997.5	1.024 mg/L		0.0030			0.29%
Ag 328.068†	616.5	0.0017 mg/L		0.00036	0.0017 mg/L	0.00036	21.06%
			QC value within limits for Ag 328.068				Recovery = Not calculated
Al 308.215†	182.0	0.0062 mg/L		0.00097	0.0062 mg/L	0.00097	15.53%
			QC value within limits for Al 308.215				Recovery = Not calculated
As 188.979†	10.4	0.0024 mg/L		0.00094	0.0024 mg/L	0.00094	39.02%
			QC value within limits for As 188.979				Recovery = Not calculated
B 249.772†	5732.2	0.0301 mg/L		0.00418	0.0301 mg/L	0.00418	13.85%
			QC value within limits for B 249.772				Recovery = Not calculated
Ba 233.527†	159.9	0.0009 mg/L		0.00014	0.0009 mg/L	0.00014	15.37%
			QC value within limits for Ba 233.527				Recovery = Not calculated
Be 313.107†	369.8	0.0001 mg/L		0.00000	0.0001 mg/L	0.00000	3.47%
			QC value within limits for Be 313.107				Recovery = Not calculated
Cd 226.502†	44.2	0.0002 mg/L		0.00004	0.0002 mg/L	0.00004	22.64%
			QC value within limits for Cd 226.502				Recovery = Not calculated
Co 228.616†	43.6	0.0007 mg/L		0.00005	0.0007 mg/L	0.00005	6.59%
			QC value within limits for Co 228.616				Recovery = Not calculated
Cr 267.716†	-28.6	-0.0001 mg/L		0.00028	-0.0001 mg/L	0.00028	251.11%
			QC value within limits for Cr 267.716				Recovery = Not calculated
Cu 324.752†	490.8	0.0018 mg/L		0.00008	0.0018 mg/L	0.00008	4.71%
			QC value within limits for Cu 324.752				Recovery = Not calculated
Fe 238.863†	238.7	0.0066 mg/L		0.00082	0.0066 mg/L	0.00082	12.43%
			QC value within limits for Fe 238.863				Recovery = Not calculated
K 404.721†	299.5	1.256 mg/L		0.0128	1.256 mg/L	0.0128	1.02%

Mo	202.031†	1011.6	0.0261 mg/L	0.00004	0.0261 mg/L	0.00004	0.14%
QC value greater than the upper limit for Mn 257.610 Recovery = 248.42%							
Ni	231.604†	4322.3	0.0423 mg/L	0.00012	0.0423 mg/L	0.00012	0.29%
QC value within limits for Mo 202.031 Recovery = 104.50%							
Na	330.237†	1906.3	1.430 mg/L	0.0918	1.430 mg/L	0.0918	6.42%
QC value within limits for Ni 231.604 Recovery = 105.82%							
Pb	220.353†	141.8	0.0101 mg/L	0.00015	0.0101 mg/L	0.00015	1.49%
QC value greater than the upper limit for Na 330.237 Recovery = 143.04%							
Sb	206.836†	390.4	0.0619 mg/L	0.00236	0.0619 mg/L	0.00236	3.82%
QC value within limits for Pb 220.353 Recovery = 101.16%							
Se	196.026†	26.0	0.0134 mg/L	0.00090	0.0134 mg/L	0.00090	6.67%
QC value within limits for Sb 206.836 Recovery = 103.16%							
Sn	189.927†	8943.8	0.5314 mg/L	0.00040	0.5314 mg/L	0.00040	0.07%
QC value greater than the upper limit for Se 196.026 Recovery = 134.42%							
Ti	337.279†	39461.0	0.0506 mg/L	0.00005	0.0506 mg/L	0.00005	0.11%
QC value within limits for Sn 189.927 Recovery = 106.28%							
Tl	190.801†	118.9	0.0220 mg/L	0.00052	0.0220 mg/L	0.00052	2.36%
QC value within limits for Ti 337.279 Recovery = 101.25%							
V	292.402†	8463.5	0.0504 mg/L	0.00001	0.0504 mg/L	0.00001	0.03%
QC value within limits for Tl 190.801 Recovery = 110.12%							
Zn	206.200†	1871.4	0.0209 mg/L	0.00011	0.0209 mg/L	0.00011	0.53%
QC value within limits for V 292.402 Recovery = 100.81%							
Ca	227.546†	446.0	1.031 mg/L	0.0125	1.031 mg/L	0.0125	1.22%
QC value within limits for Zn 206.200 Recovery = 104.62%							
Sr	460.733†	73976.2	0.0799 mg/L	0.00036	0.0799 mg/L	0.00036	0.44%
QC value within limits for Ca 227.546 Recovery = 103.07%							
QC value less than the lower limit for Sr 460.733 Recovery = 79.94%							
QC Failed. Continue with analysis.							

Sequence No.: 84
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 7/3/2008 6:23:14 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	6858850.5	0.9062 mg/L		0.00281			0.31%
Ag 328.068†	-3508.3	-0.0037 mg/L		0.00001	-0.0037 mg/L	0.00001	0.34%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 308.215†	7329224.5	250.8 mg/L		0.15	250.8 mg/L	0.15	0.06%
QC value within limits for Al 308.215 Recovery = 100.33%							
As 188.979†	-63.0	-0.0047 mg/L		0.00079	-0.0047 mg/L	0.00079	16.70%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.772†	66275.9	-0.0420 mg/L		0.00114	-0.0420 mg/L	0.00114	2.71%
Ba 233.527†	678.2	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	49.30%
Be 313.107†	-815.0	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	211.34%
QC value within limits for Be 313.107 Recovery = Not calculated							
Cd 226.502†	2020.5	0.0001 mg/L		0.00000	0.0001 mg/L	0.00000	3.16%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	157.2	-0.0020 mg/L		0.00009	-0.0020 mg/L	0.00009	4.78%
Cr 267.716†	-605.0	-0.0008 mg/L		0.00002	-0.0008 mg/L	0.00002	2.88%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-1598.2	0.0013 mg/L		0.00010	0.0013 mg/L	0.00010	8.25%
Fe 238.863†	3398034.5	93.34 mg/L		0.008	93.34 mg/L	0.008	0.01%
QC value within limits for Fe 238.863 Recovery = 93.34%							
K 404.721†	1114.0	1.125 mg/L		0.7721	1.125 mg/L	0.7721	68.65%
Mg 279.077†	8132082.4	249.8 mg/L		0.06	249.8 mg/L	0.06	0.03%
QC value within limits for Mg 279.077 Recovery = 99.94%							
Mn 257.610†	10538.1	0.0111 mg/L		0.00035	0.0111 mg/L	0.00035	3.19%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-100.2	0.0007 mg/L		0.00021	0.0007 mg/L	0.00021	28.82%
Ni 231.604†	-126.7	-0.0018 mg/L		0.00005	-0.0018 mg/L	0.00005	3.05%
Na 330.237†	293.8	0.7343 mg/L		0.01572	0.7343 mg/L	0.01572	2.14%
Pb 220.353†	-304.7	-0.0006 mg/L		0.00068	-0.0006 mg/L	0.00068	112.51%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-36.0	-0.0029 mg/L		0.00012	-0.0029 mg/L	0.00012	4.02%
Se 196.026†	-54.3	0.0064 mg/L		0.00241	0.0064 mg/L	0.00241	37.90%
QC value within limits for Se 196.026 Recovery = Not calculated							

Sn 189.927†	-205.7	-0.0206 mg/L	0.00131	-0.0206 mg/L	0.00131	6.35%
Ti 337.279†	274.0	-0.0010 mg/L	0.00005	-0.0010 mg/L	0.00005	4.74%
Tl 190.801†	-92.3	-0.0028 mg/L	0.00070	-0.0028 mg/L	0.00070	24.96%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-2122.7	0.0019 mg/L	0.00001	0.0019 mg/L	0.00001	0.55%
Zn 206.200†	719.7	-0.0153 mg/L	0.00002	-0.0153 mg/L	0.00002	0.16%
Ca 227.546†	110395.2	256.3 mg/L	0.66	256.3 mg/L	0.66	0.26%
QC value within limits for Ca 227.546 Recovery = 102.51%						
Sr 460.733†	931.4	-0.0004 mg/L	0.00026	-0.0004 mg/L	0.00026	69.13%

All analyte(s) passed QC.

Sequence No.: 85
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 7/3/2008 6:29:03 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	6896102.8	0.9111 mg/L	0.00056			0.06%
Ag 328.068†	71454.0	0.2062 mg/L	0.00029	0.2062 mg/L	0.00029	0.14%
QC value within limits for Ag 328.068 Recovery = 103.08%						
Al 308.215†	7294537.6	249.6 mg/L	0.40	249.6 mg/L	0.40	0.16%
QC value within limits for Al 308.215 Recovery = 99.86%						
As 188.979†	397.3	0.1013 mg/L	0.00015	0.1013 mg/L	0.00015	0.15%
QC value within limits for As 188.979 Recovery = 101.32%						
B 249.772†	65035.6	-0.0473 mg/L	0.00136	-0.0473 mg/L	0.00136	2.88%
Ba 233.527†	89942.6	0.5118 mg/L	0.00103	0.5118 mg/L	0.00103	0.20%
QC value within limits for Ba 233.527 Recovery = 102.37%						
Be 313.107†	2960780.8	0.5118 mg/L	0.00002	0.5118 mg/L	0.00002	0.00%
QC value within limits for Be 313.107 Recovery = 102.36%						
Cd 226.502†	217884.6	0.9699 mg/L	0.00096	0.9699 mg/L	0.00096	0.10%
QC value within limits for Cd 226.502 Recovery = 96.99%						
Co 228.616†	28010.3	0.4768 mg/L	0.00030	0.4768 mg/L	0.00030	0.06%
QC value within limits for Co 228.616 Recovery = 95.36%						
Cr 267.716†	126900.1	0.5015 mg/L	0.00044	0.5015 mg/L	0.00044	0.09%
QC value within limits for Cr 267.716 Recovery = 100.30%						
Cu 324.752†	134395.1	0.4964 mg/L	0.00122	0.4964 mg/L	0.00122	0.25%
QC value within limits for Cu 324.752 Recovery = 99.27%						
Fe 238.863†	3387667.4	93.05 mg/L	0.062	93.05 mg/L	0.062	0.07%
QC value within limits for Fe 238.863 Recovery = 93.05%						
K 404.721†	1145.6	1.286 mg/L	0.4944	1.286 mg/L	0.4944	38.43%
Mg 279.077†	8118817.6	249.4 mg/L	0.26	249.4 mg/L	0.26	0.10%
QC value within limits for Mg 279.077 Recovery = 99.77%						
Mn 257.610†	452376.8	0.5065 mg/L	0.00017	0.5065 mg/L	0.00017	0.03%
QC value within limits for Mn 257.610 Recovery = 101.30%						
Mo 202.031†	-108.7	0.0005 mg/L	0.00033	0.0005 mg/L	0.00033	63.86%
Ni 231.604†	98157.4	0.9607 mg/L	0.00060	0.9607 mg/L	0.00060	0.06%
QC value within limits for Ni 231.604 Recovery = 96.07%						
Na 330.237†	1721.6	1.803 mg/L	0.0087	1.803 mg/L	0.0087	0.48%
Pb 220.353†	424.5	0.0512 mg/L	0.00065	0.0512 mg/L	0.00065	1.27%
QC value within limits for Pb 220.353 Recovery = 102.38%						
Sb 206.836†	3959.6	0.6306 mg/L	0.00255	0.6306 mg/L	0.00255	0.40%
QC value within limits for Sb 206.836 Recovery = 105.09%						
Se 196.026†	41.5	0.0557 mg/L	0.00262	0.0557 mg/L	0.00262	4.70%
QC value within limits for Se 196.026 Recovery = 111.33%						
Sn 189.927†	-231.0	-0.0221 mg/L	0.00013	-0.0221 mg/L	0.00013	0.59%
Ti 337.279†	319.5	-0.0009 mg/L	0.00003	-0.0009 mg/L	0.00003	3.48%
Tl 190.801†	481.8	0.1033 mg/L	0.00049	0.1033 mg/L	0.00049	0.48%
QC value within limits for Tl 190.801 Recovery = 103.28%						
V 292.402†	82403.1	0.5051 mg/L	0.00076	0.5051 mg/L	0.00076	0.15%
QC value within limits for V 292.402 Recovery = 101.02%						
Zn 206.200†	85386.8	0.9341 mg/L	0.00254	0.9341 mg/L	0.00254	0.27%
QC value within limits for Zn 206.200 Recovery = 93.41%						
Ca 227.546†	109343.6	253.8 mg/L	0.13	253.8 mg/L	0.13	0.05%
QC value within limits for Ca 227.546 Recovery = 101.53%						
Sr 460.733†	864.9	-0.0004 mg/L	0.00015	-0.0004 mg/L	0.00015	35.03%

Sequence No.: 86
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 7/3/2008 6:34:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Table with columns: Analyte, Mean Corrected Intensity, Conc. Units, Calib Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like Y, Ag, Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Ni, Na, Pb, Sb, Se, Sn, Ti, Tl, V, Zn, Ca, Sr with their respective values and recovery percentages.

Sequence No.: 87
Sample ID: CCB
Analyst:

Autosampler Location: 5
Date Collected: 7/3/2008 6:40:40 PM
Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7637989.9	1.009 mg/L	0.0031			0.30%
Ag 328.068†	316.7	0.0009 mg/L	0.00025	0.0009 mg/L	0.00025	28.19%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 308.215†	221.3	0.0076 mg/L	0.00083	0.0076 mg/L	0.00083	10.91%
QC value within limits for Al 308.215		Recovery = Not calculated				
As 188.979†	14.3	0.0033 mg/L	0.00021	0.0033 mg/L	0.00021	6.40%
QC value within limits for As 188.979		Recovery = Not calculated				
B 249.772†	5641.1	0.0296 mg/L	0.00309	0.0296 mg/L	0.00309	10.42%
QC value within limits for B 249.772		Recovery = Not calculated				
Ba 233.527†	157.8	0.0009 mg/L	0.00008	0.0009 mg/L	0.00008	9.10%
QC value within limits for Ba 233.527		Recovery = Not calculated				
Be 313.107†	620.9	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	17.04%
QC value within limits for Be 313.107		Recovery = Not calculated				
Cd 226.502†	31.6	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	13.05%
QC value within limits for Cd 226.502		Recovery = Not calculated				
Co 228.616†	31.2	0.0005 mg/L	0.00014	0.0005 mg/L	0.00014	25.77%
QC value within limits for Co 228.616		Recovery = Not calculated				
Cr 267.716†	-40.7	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	17.57%
QC value within limits for Cr 267.716		Recovery = Not calculated				
Cu 324.752†	400.1	0.0015 mg/L	0.00008	0.0015 mg/L	0.00008	5.67%
QC value within limits for Cu 324.752		Recovery = Not calculated				
Fe 238.863†	468.8	0.0129 mg/L	0.00015	0.0129 mg/L	0.00015	1.15%
QC value within limits for Fe 238.863		Recovery = Not calculated				
K 404.721†	420.9	1.764 mg/L	0.1957	1.764 mg/L	0.1957	11.09%
QC value greater than the upper limit for K 404.721		Recovery = Not calculated				
Mg 279.077†	143.2	0.0044 mg/L	0.00074	0.0044 mg/L	0.00074	16.78%
QC value within limits for Mg 279.077		Recovery = Not calculated				
Mn 257.610†	13519.3	0.0152 mg/L	0.00006	0.0152 mg/L	0.00006	0.36%
QC value greater than the upper limit for Mn 257.610		Recovery = Not calculated				
Mo 202.031†	122.7	0.0032 mg/L	0.00061	0.0032 mg/L	0.00061	19.26%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Ni 231.604†	35.0	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	10.90%
QC value within limits for Ni 231.604		Recovery = Not calculated				
Na 330.237†	304.9	0.2287 mg/L	0.01184	0.2287 mg/L	0.01184	5.18%
QC value within limits for Na 330.237		Recovery = Not calculated				
Pb 220.353†	-19.0	-0.0014 mg/L	0.00018	-0.0014 mg/L	0.00018	13.56%
QC value within limits for Pb 220.353		Recovery = Not calculated				
Sb 206.836†	64.9	0.0103 mg/L	0.00151	0.0103 mg/L	0.00151	14.64%
QC value greater than the upper limit for Sb 206.836		Recovery = Not calculated				
Se 196.026†	2.7	0.0014 mg/L	0.00004	0.0014 mg/L	0.00004	2.86%
QC value within limits for Se 196.026		Recovery = Not calculated				
Sn 189.927†	131.1	0.0078 mg/L	0.00117	0.0078 mg/L	0.00117	15.04%
QC value within limits for Sn 189.927		Recovery = Not calculated				
Ti 337.279†	328.5	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	38.28%
QC value within limits for Ti 337.279		Recovery = Not calculated				
Tl 190.801†	13.6	0.0025 mg/L	0.00012	0.0025 mg/L	0.00012	4.96%
QC value within limits for Tl 190.801		Recovery = Not calculated				
V 292.402†	17.3	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	26.54%
QC value within limits for V 292.402		Recovery = Not calculated				
Zn 206.200†	45.6	0.0005 mg/L	0.00006	0.0005 mg/L	0.00006	11.43%
QC value within limits for Zn 206.200		Recovery = Not calculated				
Ca 227.546†	23.6	0.0546 mg/L	0.02282	0.0546 mg/L	0.02282	41.77%
QC value within limits for Ca 227.546		Recovery = Not calculated				
Sr 460.733†	-1101.9	-0.0012 mg/L	0.00019	-0.0012 mg/L	0.00019	15.95%
QC value within limits for Sr 460.733		Recovery = Not calculated				
QC Failed. Continue with analysis.						

Sequence No.: 88
Sample ID: Sample089
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 89
Date Collected: 7/3/2008 6:46:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: Sample089

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	7638486.7	1.009	mg/L	0.0056			0.56%
Ag 328.068†	270.3	0.0008	mg/L	0.00061			80.44%
Al 308.215†	293.3	0.0100	mg/L	0.00058			5.77%
As 188.979†	4.2	0.0010	mg/L	0.00160			164.16%
B 249.772†	3148.4	0.0165	mg/L	0.00066			3.97%
Ba 233.527†	65.0	0.0004	mg/L	0.00002			5.35%
Be 313.107†	460.0	0.0001	mg/L	0.00002			25.69%
Cd 226.502†	50.2	0.0002	mg/L	0.00005			22.34%
Co 228.616†	28.5	0.0005	mg/L	0.00005			9.53%
Cr 267.716†	-31.9	-0.0001	mg/L	0.00006			46.79%
Cu 324.752†	331.1	0.0012	mg/L	0.00017			13.91%
Fe 238.863†	438.5	0.0120	mg/L	0.00186			15.48%
K 404.721†	377.1	1.580	mg/L	0.2550			16.14%
Mg 279.077†	71.2	0.0022	mg/L	0.00140			63.80%
Mn 257.610†	12421.7	0.0139	mg/L	0.00009			0.63%
Mo 202.031†	36.4	0.0009	mg/L	0.00001			1.48%
Ni 231.604†	3.1	0.0000	mg/L	0.00008			252.11%
Na 330.237†	225.6	0.1693	mg/L	0.00642			3.79%
Pb 220.353†	-8.0	-0.0006	mg/L	0.00072			126.77%
Sb 206.836†	26.1	0.0041	mg/L	0.00220			53.12%
Se 196.026†	5.1	0.0026	mg/L	0.00184			69.87%
Sn 189.927†	57.6	0.0034	mg/L	0.00004			1.06%
Ti 337.279†	78.5	0.0001	mg/L	0.00003			25.16%
Tl 190.801†	7.2	0.0013	mg/L	0.00034			25.21%
V 292.402†	-2.3	0.0000	mg/L	0.00000			21.34%
Zn 206.200†	343.8	0.0039	mg/L	0.00015			3.81%
Ca 227.546†	27.5	0.0637	mg/L	0.00384			6.02%
Sr 460.733†	-1042.2	-0.0011	mg/L	0.00026			22.95%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Metals Cover Page

Analyst: DK

Date: 7/2/08

Instrument: FIMS

Data File: JUL-02WB

Reviewed By: DK

Entered By: DK

Approval: SD 7/7/08

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Comments/ Problems
163392	Hg	M4400113	7470 TECP		

Package Data:

Client Sub#	Package	Analytes Used	Failed Metals	Batch ID	Stds Attached?	Tranferred To LIMS	Raw Data Copied?
R-44659	5/ASP	Hg		M4400113	Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No

Method Name: Hg_Non_CLP
 Method Description: Method 245.1A FIMS
 Element: Hg

Date: 07/02/2008
 Technique: FI-MHS
 Calibration Type:
 Hg, Zero Intercept: Linear
 Wavelength: 253.7 nm
 Sample Info Name: ROUTINE.SIF

Results Data Set Name: JUL-02WB

DK 7/2/08

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 07/02/2008
 Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0005	0.0024	0.0005	03:25:07	No
2			0.0005	0.0027	0.0005	03:25:36	No
Mean:			0.0005				
SD :			0.0000				
%RSD:			0.3600				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 8 Date: 07/02/2008
 Sample ID: 0.2ppb std

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0023	0.0138	0.0028	03:26:56	No
2			0.0023	0.0136	0.0028	03:27:25	No
Mean:			0.0023				
SD :			0.0000				
%RSD:			1.1212				

[Hg] Standard number 1 applied. [0.2000]
 Correlation Coefficient: 1.00000 Slope: 0.01153

Element: Hg Seq. No.: 3 AS Loc.: 2 Date: 07/02/2008
 Sample ID: 0.5ppb std

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0062	0.0336	0.0067	03:28:45	No
2			0.0062	0.0334	0.0067	03:29:14	No
Mean:			0.0062				
SD :			0.0000				
%RSD:							

[Hg] Standard number 2 applied. [0.5000]
 Correlation Coefficient: 0.99787 Slope: 0.01233

Element: Hg Seq. No.: 4 AS Loc.: 3 Date: 07/02/2008
 Sample ID: 1ppb std

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0130	0.0674	0.0135	03:30:33	No
2			0.0130	0.0670	0.0135	03:31:03	No
Mean:			0.0130				
SD :			0.0000				
%RSD:							

[Hg] Standard number 3 applied. [1.000]

Correlation Coefficient: 0.99881

Slope: 0.01285

=====
 Element: Hg Seq. No.: 5 AS Loc.: 4 Date: 07/02/2008
 Sample ID: 2ppb std

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0261	0.1322	0.0266	03:32:22	No
2			0.0262	0.1323	0.0267	03:32:51	No
Mean:			0.0261				
SD :			0.0001				
%RSD:			0.2651				
[Hg] Standard number 4 applied. [2.000]							
Correlation Coefficient:			0.99971	Slope:		0.01302	

=====
 Element: Hg Seq. No.: 6 AS Loc.: 5 Date: 07/02/2008
 Sample ID: 5ppb std

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0655	0.3285	0.0660	03:34:11	No
2			0.0654	0.3271	0.0659	03:34:40	No
Mean:			0.0654				
SD :			0.0001				
%RSD:							
[Hg] Standard number 5 applied. [5.000]							
Correlation Coefficient:			0.99996	Slope:		0.01307	

=====
 Element: Hg Seq. No.: 7 AS Loc.: 6 Date: 07/02/2008
 Sample ID: 10ppb std

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1286	0.6471	0.1291	03:36:01	No
2			0.1281	0.6442	0.1286	03:36:30	No
Mean:			0.1283				
SD :			0.0003				
%RSD:			0.2702				
[Hg] Standard number 6 applied. [10.00]							
Correlation Coefficient:			0.99994	Slope:		0.01289	

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0005	----	----	----	----
0.2ppb std	0.0023	0.2000	0.1789	0.00003	1.1
0.5ppb std	0.0062	0.5000	0.4830	0.00000	----
1ppb std	0.0130	1.0000	1.008	0.00001	----
2ppb std	0.0261	2.0000	2.029	0.00007	0.3
5ppb std	0.0654	5.0000	5.075	0.00006	----
10ppb std	0.1283	10.0000	9.957	0.00035	0.3
Calib Blank	0.0005	----	----	----	----
Correlation Coefficient:		0.99994	Slope:	0.01289	----

=====
 Element: Hg Seq. No.: 8 AS Loc.: 7 Date: 07/02/2008
 Sample ID: ICV

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
------	------------	----------	----------	------	------	------	------

#	µg/L	µg/L	Signal	Area	Height		Stored
1	3.079	3.079	0.0397	0.1993	0.0402	03:37:52	No
2	3.083	3.083	0.0397	0.2000	0.0402	03:38:21	No
Mean:	3.081	3.081	0.0397				
SD :	0.00265	0.00265	0.0000				
%RSD:							

QC value within specified limits.

=====
 Element: Hg Seq. No.: 9 AS Loc.: 1 Date: 07/02/2008
 Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0014	-0.0014	0.0000	0.0022	0.0005	03:39:41	No
2	-0.0020	-0.0020	0.0000	0.0019	0.0005	03:40:10	No
Mean:	-0.0017	-0.0017	0.0000				
SD :	0.00043	0.00043	0.0000				
%RSD:	25.9	25.9	25.8589				

QC value within specified limits.

=====
 Element: Hg Seq. No.: 10 AS Loc.: 8 Date: 07/02/2008
 Sample ID: CRII

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.1795	0.1795	0.0023	0.0138	0.0028	03:41:30	No
2	0.1802	0.1802	0.0023	0.0140	0.0028	03:41:59	No
Mean:	0.1799	0.1799	0.0023				
SD :	0.00045	0.00045	0.0000				
%RSD:	0.2	0.2	0.2491				

QC value within specified limits.

=====
 Element: Hg Seq. No.: 11 AS Loc.: 7 Date: 07/02/2008
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.086	3.086	0.0398	0.1981	0.0403	03:43:21	No
2	3.076	3.076	0.0397	0.1972	0.0402	03:43:50	No
Mean:	3.081	3.081	0.0397				
SD :	0.00642	0.00642	0.0001				
%RSD:	0.2	0.2	0.2085				

QC value within specified limits.

=====
 Element: Hg Seq. No.: 12 AS Loc.: 1 Date: 07/02/2008
 Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0045	0.0045	0.0001	0.0025	0.0006	03:45:08	No
2	0.0035	0.0035	0.0000	0.0026	0.0005	03:45:37	No
Mean:	0.0040	0.0040	0.0001				
SD :	0.00077	0.00077	0.0000				
%RSD:	19.3	19.3	19.3285				

QC value within specified limits.

=====
 Element: Hg Seq. No.: 13 AS Loc.: 9 Date: 07/02/2008
 Sample ID: PBW-M4400113 *114642 DL 7/2/08*

Repl	SampleConc	StndConc	Blncorr	Peak	Peak	Time	Peak
------	------------	----------	---------	------	------	------	------

#	µg/L	µg/L	Signal	Area	Height		Stored
1	0.0084	0.0084	0.0001	0.0030	0.0006	03:46:54	No
2	0.0076	0.0076	0.0001	0.0026	0.0006	03:47:23	No
Mean:	0.0080	0.0080	0.0001				
SD :	0.00060	0.00060	0.0000				
%RSD:	7.5	7.5	7.4641				

=====
 Element: Hg Seq. No.: 14 AS Loc.: 10 Date: 07/02/2008
 Sample ID: LCSW-M4400113 1114643 DL 7/2/08
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.015	1.015	0.0131	0.0681	0.0136	03:48:40	No
2	1.019	1.019	0.0131	0.0679	0.0136	03:49:09	No
Mean:	1.017	1.017	0.0131				
SD :	0.00339	0.00339	0.0000				
%RSD:	0.3	0.3	0.3331				

=====
 Element: Hg Seq. No.: 15 AS Loc.: 11 Date: 07/02/2008
 Sample ID: 1112220
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0134	0.0134	0.0002	0.0035	0.0007	03:50:26	No
2	0.0113	0.0113	0.0001	0.0032	0.0006	03:50:56	No
Mean:	0.0124	0.0124	0.0002				
SD :	0.00149	0.00149	0.0000				
%RSD:	12.1	12.1	12.0762				

=====
 Element: Hg Seq. No.: 16 AS Loc.: 12 Date: 07/02/2008
 Sample ID: 1112220D 1114640 DL 7/2/08
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0164	0.0164	0.0002	0.0034	0.0007	03:52:15	No
2	0.0163	0.0163	0.0002	0.0035	0.0007	03:52:44	No
Mean:	0.0163	0.0163	0.0002				
SD :	0.00013	0.00013	0.0000				
%RSD:	0.8	0.8	0.7831				

=====
 Element: Hg Seq. No.: 17 AS Loc.: 13 Date: 07/02/2008
 Sample ID: 1112220S 1114641 DL 7/2/08
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.002	1.002	0.0129	0.0679	0.0134	03:54:03	No
2	1.002	1.002	0.0129	0.0673	0.0134	03:54:32	No
Mean:	1.002	1.002	0.0129				
SD :	0.00001	0.00001	0.0000				
%RSD:							

=====
 Element: Hg Seq. No.: 18 AS Loc.: 8 Date: 07/02/2008
 Sample ID: CRII
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.1807	0.1807	0.0023	0.0139	0.0028	03:55:54	No
2	0.1814	0.1814	0.0023	0.0141	0.0028	03:56:23	No
Mean:	0.1811	0.1811	0.0023				
SD :	0.00053	0.00053	0.0000				

%RSD: 0.3 0.3 0.2943
 QC value within specified limits.

=====
 Element: Hg Seq. No.: 19 AS Loc.: 7 Date: 07/02/2008
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.088	3.088	0.0398	0.2007	0.0403	03:57:45	No
2	3.083	3.083	0.0397	0.2001	0.0402	03:58:15	No
Mean:	3.085	3.085	0.0398				
SD :	0.00316	0.00316	0.0000				
%RSD:	0.1	0.1	0.1026				

QC value within specified limits.

=====
 Element: Hg Seq. No.: 20 AS Loc.: 1 Date: 07/02/2008
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0049	-0.0049	-0.0001	0.0020	0.0004	03:59:34	No
2	-0.0037	-0.0037	0.0000	0.0023	0.0005	04:00:03	No
Mean:	-0.0043	-0.0043	-0.0001				
SD :	0.00085	0.00085	0.0000				
%RSD:	19.6	19.6	19.5556				

QC value within specified limits.

CAS - Rochester, NY: ICP Water Digestion Log

Analyst: LAL Date: 7/2/08 Report Type: Routine // 6 // ASP // Pkg5
 Prep Method: 3010 // 3010 TCLP // 3005 // CLP Spike Witness / Lot Approval: DK 7/2/08
 Digest: Initial // Redigest Of: _____

Batch ID: M1780859
 Batch Temp: 78

Submission / Order #	pH	Initial Vol (ml)	Final Vol (ml)	Initial Color / Clarity	Final Color / Clarity	Metals	Spike Added Vol (ml)
1 PB-TCLP	6.2	50	50	C-CLR	C-CLR	Hg, As, Ba, Cd, Cr, Pb, Se	1.0 mL TCLP Spk 0.25 mL Bc
2 LCS-TCLP							
3 Method Blank 1/1	6.2						
4 R-41159 112220	6.2						
5 220217							
6 220217							1.0 mL TCLP Spk 0.25 mL Bc
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							

WLC 7/2/08

Spiking Standards / Reagent Lot Numbers:
 Spike A, B: _____ Spike 4: _____
 TCLP Spk: M1780859 TCLP Ba: M1780859A
 Se Std: _____ Sn Std: _____
 Sr Std: _____ HNO3: M1780859
 HCL: M1780859

Color / Clarity Key:
 Color: C = Colorless ; Y = Yellow ; B = Brown ; G = Grey
 BL = Black
 Clarity: CDY = Cloudy ; CLR = Clear ; OP = Opaque

Columbia Analytical Services – Rochester, NY

Analysis For: Hg
 Bath Temp: In 95 / Out 95
 Time In: 12:30
 Time Out: 14:30

EPA Method: 7470/7471/245.1/245.5
 Report: Routine / ASP / Pkg.5
 File Name: JUL-02W3

Analyst: DK
 Date Prepped: 7/2/08
 Date Analyzed: 7/2/08

Client / Submission #	Sample Number	Initial Wgt/Volume (g/ml)	Final Volume (ml)	Client / Submission #	Sample Number	Initial Wgt/Volume (g/ml)	Final Volume (ml)	
1	PBW-T	25	25	31				
2	LCSW-T			32				
3	R-44659			33				
4	112220			34				
5	2220 D			35				
6	2220 S			36				
7				37				
8				38				
9				39				
10				40				
11				41				
12				42				
13				43				
14				44				
15				45				
16				46				
17				47				
18				48				
19				49				
20						ICB	100ml DI Water	100
21						Std 0	100ml DI Water	100
22						Std 0.2*	0.20ml of 0.1ppm	100
23						Std 0.5*	0.50ml of 0.1ppm	100
24						Std 1.0*	1.00ml of 0.1ppm	100
25						Std 2.0*	2.00ml of 0.1ppm	100
26						Std 5.0*	5.00ml of 0.1ppm	100
27						Std 10.0*	10.0ml of 0.1ppm	100
28						ICV/CCV**	3.00ml of 0.1ppm	100
29						LCSW/MS**	1.00ml of 0.1ppm	100
30						CRDL*	0.20ml of 0.1ppm	100

Lot # of Reagents Used:

HNO3: M17800860 H2SO4: M1780077A HCL: M17800853 K2S2O8: M17800370 KMnO4: M1780057F
 SnCl2: M1780086V NaCl: M1780077W NH2OH-HCL: M1780082R LCSS CAS Lot#: ---
 LCSS ERA Lot#: ---

*Source Standard: (Vendor/Lot #) M1780086J
 *(10ppm stock Lot#: M4550018A)
 *(0.1ppm working std Lot#: M4550018C)

**ICV Standard: (Vendor/Lot #) M1780086D
 **(10ppm stock Lot#: M4550057A)
 **(0.1ppm working std Lot#: M4550057C)

Comments/Problems: Digestion Vessel Vendor / Lot* = EE / A80 / LPO01

Batch Name: M4400113

00113
00344

NON-VOA TCLP EXTRACTION

Date: 7/1/08

Analyst: CLC

Order #	111222D	METHOD BLANK	
Submission #	R-44659		
Analysis	<u>Metals / Hg Extractables</u>	<u>Metals / Hg Extractables</u>	Metals / Hg Extractables
Other Analytes			
Sample Description	Black medium	Clear colorless	
Extraction Vessel (# or Letter)	X	B	
Rotator #	1	1	
Percent Solid Determination	<u>Yes Not Applicable</u>	<u>Yes Not Applicable</u>	<u>Yes Not Applicable</u>
wgt of total sample:	100g	-	
wgt of liquid:	-	-	
wgt of solid:	-	-	
% Solids:	-	-	
Wgt of sample extracted:	100g	-	
amount of Ext. Fluid: (20x%Solidsxwgt of total sample/100)	2000ml	2000 ml	
Extraction Procedure			
Particle size reduction (Will sample pass through 9.5mm sieve?)	YES NO	YES NO	YES NO
A. 5.0g sample + 96.5ml DI (stir 5 min) pH=	5.87	-	
B. If pH in A is > 5.0 add 3.5ml 1N HCL (mix, cover, heat) pH=	2.98	-	
If pH in A or B is < 5.0 use Fluid 1 pH of Fluid 1 =	4.88	4.93	
If pH in A or B is > 5.0 use Fluid 2 pH of Fluid 2 =	-	-	
Record of Extraction			
Extraction start Time 7/1	11:00 pm	11:00 pm	
Extraction stop Time 7/2	09:15 am	09:15 am	
Minimum Temp (23°C +/-2°)	19°C	19°C	
Maximum Temp (23°C +/-2°)	22°C	22°C	
pH of Filtrate	5.22	4.82	
Are initial and final extracts compatible (if applicable)	YES NO	YES NO	YES NO

NaOH Lot # M1780876

CH3COOH Lot # M178084K

Extraction Fluid 1: 130ml NaOH + 11.4ml CH3COOH → 2000ml DI
 Extraction Fluid 2: 11.4ml CH3COOH → 2000ml DI

00345

OPTIMA 5300DV (#3) CALIBRATION STANDARD #1 (Standard is prepared weekly or as necessary)

Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID	
Single Metals	AL	10000	0.010	1000	0.100	2%HNO3	DCD 6/9/08	A	M17800860	M17800855	6/16/08	M17	
	BA	1000	0.020	0.020	0.0200	5%HCl	DCD 6/17/08	B	M17800860	M17800855	6/27/08	M17	
	CU	1000	0.020	0.020	0.0200		SD 6/24/08	C	M17800860	M17800855	7/1/08	M17	
	MN	1000	0.010	0.010	0.0100		SD 7/1/08	D	M17800855	M17800855	7/8/08	M17	
	SB	1000	0.010	0.010	0.0100			E					
	MO	1000	0.025	0.025	0.025			F					
Cat	AS	100	0.100	0.100	0.0100			G					
	Std 4	CD	50		0.0050			H					
		SE	50		0.0050			I					
		PB	50		0.0050			J					
TL	100		0.0100				K						
							L						
							M						
							N						
							O						
							P						
							Q						
							R						
							S						
							T						
							U						
							V						
							W						
							X						
							Y						
							Z						

OPTIMA 5300DV (#3) / AXIAL (#2) CALIBRATION STANDARD #4 / HLCCV1 (Standard is prepared weekly or as necessary)

(CALIBRATION STANDARD #2 IS A 1/100 DILUTION OF THIS STANDARD)

(CALIBRATION STANDARD #3 IS A 1/15 DILUTION OF THIS STANDARD)

Cal Std	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Cal Std 1	CA	m1780083R	5000	2.00	200	50.0	2% HNO3	DeChalcoler	A	m17800800	m17800855	7/11/08	M24
	MG		5000			50.0	5% HCl	SD 7/3/08	B	M17800883	M17800883	7/10/08	M104
	K		5000			50.0			C				
	NA		5000			1.00			D				
	AG	m1780080K	100	2.00		1.00			E				
Cal Std 2	CR		100			1.50			F				
	MN		150			4.00			G				
	NI		400			2.00			H				
	ZN		200			20.0			I				
	AL	m1780080L	2000	2.00		20.0			J				
Cal Std 3	BA		2000			0.500			K				
	BE		50			5.00			L				
	CO		500			2.50			M				
	CU		250			10.0			N				
	FE		1000			5.00			O				
Cal Std 4	V		500			2.00			P				
	AS	m17800809	100	4.00		1.00			Q				
	CD		50			1.00			R				
	PB		50			1.00			S				
	SE		50			2.00			T				
Single Metals	TL		100			10.0			U				
	SB	m17800857	1000	2.00		10.0			V				
	SN	m17800850	1000	2.00		5.00			W				
	B	m1780081E	1000	1.00		5.00			X				
	MO	m1780082E	1000	1.00		5.00			Y				
Cal Std 5	TI	m1780082F	1000	1.00		5.00			Z				
	SR	m1780088Y	1000	1.00		5.00			AA				

OPTIMA 5300DV (#3) / AXIAL (#2) ICV/CCV (Standard is prepared daily)

Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Pipet ID
Cal Std 1											
CA	m1780087V	5000	1.00	200	25.0	2% HNO3	SD 6/26/08	A	M17800860	M1780085S	M24 M23
MG		5000			25.0	5% HCl	SD 6/27/08	B	m17800860	m1780085S	M24 M23
K		5000			25.0		SD 7/1/08	C	m17800860	m1780085S	M24 M23
NA		5000			25.0		SD 7/1/08	D	M1780088J	M1780085S	M24/M23
AG	m1780086I	100	1.00		0.500		SD 7/3/08	E	M1780088J	M1780085S	M24/M23
CR		100			0.500			F	M1780088J	M1780085A	M24/M23
MN		150			0.750			G			
NI		400			2.00			H			
ZN		200			1.00			I			
AL	m1780086I	2000	1.00		10.0			J			
BA		2000			10.0			K			
BE		50			0.250			L			
CO		500			2.50			M			
CU		250			1.25			N			
FE		1000			5.00			O			
V		500			2.50			P			
AS	m1780087D	100	2.00		1.00			Q			
CD		50			0.500			R			
PB		50			0.500			S			
SE		50			0.500			T			
TL		100			1.00			U			
SB	m1780085Y	1000	1.00		5.00			V			
SN	m1780088H	1000	1.00		5.00			W			
B	m1780088H	1000	0.500		2.50			X			
MO	m1780087D	1000	0.500		2.50			Y			
TI	m1780087I	1000	0.500		2.50			Z			
SR	m1780085M	1000	0.500		2.50			AA			

07000

OPTIMA 5300DV (#3) - HLCCV2 (Standard is prepared weekly or as necessary)

Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID		
Cat Std 2	AG	100	2.00	100	2.00	2% HNO3	SD 7/11/08	A	M1780088J	M1780085S	7/15/08	M38/M13		
	CR	100			Below	5% HCl		B						
	MN	150			Below			C						
	NI	400			8.00			D						
	ZN	200			4.00			E						
Cat Std 3	AL	2000	2.00		Below		F							
	BA	2000			40.0		G							
	BE	50			1.00		H							
	CO, V	500			10.0		I							
	CU	250			5.00		J							
	FE	1000			Below		K							
	AS, TL	100	4.00		4.00		L							
Cat Std 4	CD, SE	50			2.00		M							
	PB	50			Below		N							
	SR	1000	1.00		10.0		O							
Single Metals	B	1000	1.00		10.0		P							
	TI	1000	1.00		10.0		Q							
	MO	1000	1.00		10.0		R							
	PB	1000	0.800		500		S							
	AL	10000	4.60		250		T							
	CA	10000	2.50		10.0		U							
	CR	1000	0.800		10.0		V							
	FE	10000	0.800		100		W							
	MG	10000	5.00		500		X							
	MN	1000	0.700		10.0		Y							
	NA	10000	1.00		100.0		Z							

5300

OPTIMA 5300DV (#3) MRL

Cal	METAL	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Exp. Date	Pipet ID	
Cal #1	CA	M1780083R	5000	0.200	1000	1.00	5% HCL	JD 7/11/08	A	M1780088J	M1780035S	1/1/09	M17	
	K		5000			1.00	2% HNO3		B					
	MG		5000			1.00			C					
	NA		5000			1.00			D					
Cal #2	CR	M1780086K	100	0.100		0.0100			E					
	AG		100			0.0100			F					
	MN		150			0.0150			G					
	ZN		200			0.0200			H					
Cal #3	NI		400			0.0400			I					
	AL	M1780086L	2000	0.100		0.200			J					
	BA		2000			0.200			K					
	FE		1000			0.100			L					
Cal #4	CO		500			0.050			M					
	V		500			0.050			N					
	CU		250			0.025			O					
	BE		50			0.00500			P					
Cal #4	CD, PB, SE	M1780086M	50	0.20		0.0100			Q					
	AS, TL		100			0.0200			R					
PQL #2	B	M1780086A	200	1.00		0.200			T					
	MO		25			0.0250			U					
Single Stds	SN		500			0.500			V					
	TI		50			0.050			W					
Single Stds	SB	M1780085T	1000	0.060		0.060			X					
	SR	M1780086Y	1000	0.100		0.100			Y					
									Z					

OPTIMA #3 ICSA STANDARD

Element	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Int. A Sol'n	~17800856	Multi	50	1000	Multi	5% HCL	DCS 5/19/08	A	~17800860	~17800855	11/19/08	—
AL		5000			250	2% HNO3	DCS 6/20/08	B	~17800860	~17800855	12/20/08	—
CA		5000			250			C				
FE		2000			100			D				
MG		5000			250			E				
								F				
								G				
								H				
								I				
								J				
								K				
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								U				
								V				

OPTIMA #3 ICSAB STANDARD

Element	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Int. A Sol'n	m17800856	Multi	25	500	Multi	5% HCl	DCB 6/6/08	A	m17800860	m17800855	12/6/08	—
AL		5000			250	2%HNO3	DCB 6/22/08	B	m17800860	m17800855	12/22/08	—
CA		5000			250			C				
FE		2000			100			D				
MG		5000			250			E				
Int. B Sol'n	m17800822	Multi	5		Multi			F				
AG		20			0.200			G				
BA		50			0.500			H				
BE		50			0.500			I				
CD		100			1.00			J				
CO		50			0.500			K				
CR		50			0.500			L				
CU		50			0.500			M				
MN		50			0.500			N				
NI		100			1.00			O				
PB		5			0.0500			P				
V		50			0.500			Q				
ZN		100			1.00			R				
AS		10			0.100			S				
SB		60			0.600			T				
SE		5			0.0500			U				
TL		10			0.100			V				

OPTIMA INTERNAL STANDARD (ADDED ON-LINE)

Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	Letter ID	Nitric Acid Lot #	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Y	M1780081C	10000	2.0	2000	10.0	5% HCl 2% HNO3	SD 3/7/08	A	M1780084N	M1780084F	9/7/08	M24
CS	M1780081D	10000	2.0		10.0		SD 3/13/08	B	M1780084N	M1780084F	9/13/08	M24
							DCB 3/26/08	C	m1780084N	m1780084F	9/26/08	m24
							DCB 4/13/08	D	m1780084N	m1780084F	10/5/08	m24
							DCB 4/8/08	E	m1780084N	m1780085S	10/8/08	m24
							SD 4/14/08	F	M1780084N	M1780085S	10/14/08	M24
							DCB 4/24/08	G	m17800860	m1780085S	10/24/08	m24
							DCB 5/2/08	H	m17800860	m1780085S	11/2/08	m24
							DCB 5/9/08	I	m17800860	m1780085S	11/9/08	m24
							DCB 5/14/08	J	m17800860	m1780085S	11/14/08	m24
							DCB 5/22/08	K	m17800860	m1780085S	11/22/08	m24
							SD 5/27/08	L	M17800860	M1780085S	11/27/08	M24
							SD 6/4/08	M	M17800860	M1780085S	12/4/08	M24
							DCB 6/11/08	N	m17800860	m1780085S	12/11/08	m24
							DCB 6/17/08	O	m17800860	m1780085S	12/17/08	m24
							DCB 6/23/08	P	m17800860	m1780085S	12/23/08	m24
							SD 6/24/08	Q	M17800860	M1780085S	12/24/08	M24
								R				
								S				
								T				
								V				

MERCURY CALIBRATION / CRDL STANDARDS

Standard	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	ID Letter	Expiration Date	Nitric Acid Lot#	Pipet ID
Hg Cal Stk A	M17800860	1000	1.00	100	10.0	0.5% HNO3	DL 7/1/08	A	7/1/08	M17800860	M16

(PREPARED DAILY)

Standard	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	ID Letter	Nitric Acid Lot#	Pipet ID
Hg Cal Stk B	Hg Cal Stk A	10.0	1.00	100	0.100	0.5% HNO3	DL 7/1/08	B	M17800860	M16
							DL 7/2/08	C	M17800860	M16
								D		
								E		
								F		
								G		
								H		

(PREPARED WITH EACH RUN)

Calibration Standards (ppb)	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst/Date	ID Letter	Nitric Acid Lot#	Pipet ID
0.200	Hg Cal Stk B	0.100	0.200	100	0.200	0.5% HNO3	DL 7/1/08	I	M17800860	
0.500			0.500		0.500		DL 7/2/08	J	M17800860	
1.00			1.00		1.00			K		
2.00			2.00		2.00			L		
5.00			5.00		5.00			M		
10.0			10.0		10.0			N		
CRA			0.200		0.200			O		

MERCURY CCV / LCSW / MS STANDARDS

Standard	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	ID Letter	Expiration Date	Nitric Acid Lot#	Pipet ID
Hg CCV Stk A	M17800860	1000	1.00	100	10.0	0.5% HNO3	DL 7/1/08	A	7/7/08	M17800860	M16

(PREPARED DAILY)

Standard	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	ID Letter	Nitric Acid Lot#	Pipet ID
Hg CCV Stk B	Hg CCV Stk A	10.0	1.00	100	0.100	0.5% HNO3	DL 7/1/08	B	M17800860	M16
							DL 7/2/08	C	M17800860	M16
								D		
								E		
								F		
								G		
								H		

(PREPARED WITH EACH RUN)

CCV Standard (ppb)	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst/Date	ID Letter	Nitric Acid Lot#	Pipet ID
3.00	Hg CCV Stk B	0.100	3.00	100	3.00	0.5% HNO3	DL 7/1/08	I	M17800860	
LCSW / MS			1.00		1.00		DL 7/2/08	J	M17800860	
								K		
								L		
								M		
								N		
								O		

GENERAL CHEMISTRY DATA

COLUMBIA ANALYTICAL SERVICES

Reported: 07/18/08

ENSR International
Project Reference: NEW - TAILINGS
Client Sample ID : 001

Date Sampled : 06/24/08 Order #: 1112221 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/08 Submission #: R2844659

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.00	67.9	%	06/30/08	11:30	1.0

Run #: 163196
 Analyte: PERCENT SOL. 160.3M PERCENT SOLIDS
 Printed: 07/02/08 10:08

R44649
 R44659
 R44666
 R44756
 R44766
 Scores

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
BLKS		1114324	SOIL/SEDIME	1.00	1.0	1.00			06/30/2008		
ESMP	R2844606	1110980	SOIL/SEDIME	82.3	1.0	1.00			06/30/2008		1
ESMP	R2844608	1111013	SOIL/SEDIME	88.0	1.0	1.00			06/30/2008	RUN	2
ESMP	R2844649	1112054	SOIL/SEDIME	96.1	1.0	1.00			06/30/2008	RUN	ASPB
ESMP	R2844649	1112055	SOIL/SEDIME	98.8	1.0	1.00			06/30/2008	RUN	ASPB
LDUP		1114325	SOIL/SEDIME	98.7	1.0	1.00		0.06	06/30/2008		
ESMP	R2844649	1112058	SOIL/SEDIME	96.4	1.0	1.00			06/30/2008	RUN	ASPB
ESMP	R2844647	1112021	SOLID	18.8	1.0	1.00			06/30/2008	RUN	2
ESMP	R2844647	1112022	SOLID	19.3	1.0	1.00			06/30/2008	RUN	2
ESMP	R2844647	1112023	SOLID	18.6	1.0	1.00			06/30/2008	RUN	2
ESMP	R2844647	1112024	SOLID	31.1	1.0	1.00			06/30/2008	RUN	2
ESMP	R2844647	1112025	SOLID	30.8	1.0	1.00			06/30/2008	RUN	2
ESMP	R2844647	1112026	SOLID	32.2	1.0	1.00			06/30/2008	RUN	2
ESMP	R2844647	1112027	SOLID	36.7	1.0	1.00			06/30/2008	RUN	2
ESMP	R2844651	1112068	SOIL/SEDIME	93.4	1.0	1.00			06/30/2008		1
ESMP	R2844647	1112115	SOLID	36.9	1.0	1.00			06/30/2008	RUN	2
ESMP	R2844659	1112221	SOIL/SEDIME	67.9	1.0	1.00			06/30/2008	RUN	ASPB
ESMP	R2844666	1112361	SOIL/SEDIME	93.7	1.0	1.00			06/30/2008		ASPB
ESMP	R2844666	1112362	SOIL/SEDIME	91.4	1.0	1.00			06/30/2008	QC	ASPB
LDUP		1114326	SOIL/SEDIME	91.5	1.0	1.00		0.15	06/30/2008		
ESMP	R2844666	1112363	SOIL/SEDIME	93.1	1.0	1.00			06/30/2008		ASPB
ESMP	R2844666	1112364	SOIL/SEDIME	63.8	1.0	1.00			06/30/2008		ASPB
ESMP	R2844666	1112365	SOIL/SEDIME	66.6	1.0	1.00			06/30/2008		ASPB
ESMP	R2844744	1113110	SOIL/SEDIME	83.8	1.0	1.00			06/30/2008	RUN	2
ESMP	R2844666	1113245	SOIL/SEDIME	86.4	1.0	1.00			06/30/2008		ASPB
ESMP	R2844666	1113249	SOIL/SEDIME	82.2	1.0	1.00			06/30/2008		ASPB
ESMP	R2844666	1113250	SOIL/SEDIME	91.8	1.0	1.00			06/30/2008	QC	ASPB
LDUP		1114327	SOIL/SEDIME	91.7	1.0	1.00		0.11	06/30/2008		
ESMP	R2844666	1113254	SOIL/SEDIME	71.1	1.0	1.00			06/30/2008		ASPB
ESMP	R2844666	1113255	SOIL/SEDIME	61.8	1.0	1.00			06/30/2008		ASPB
ESMP	R2844666	1113256	SOIL/SEDIME	93.4	1.0	1.00			06/30/2008		ASPB
ESMP	R2844666	1113257	SOIL/SEDIME	91.8	1.0	1.00			06/30/2008		ASPB
ESMP	R2844666	1113258	SOIL/SEDIME	72.8	1.0	1.00			06/30/2008		ASPB
ESMP	R2844666	1113259	SOIL/SEDIME	69.4	1.0	1.00			06/30/2008		ASPB
ESMP	R2844666	1113262	SOIL/SEDIME	92.6	1.0	1.00			06/30/2008		ASPB
ESMP	R2844756	1113320	SOIL/SEDIME	74.9	1.0	1.00			06/30/2008		CLP
ESMP	R2844756	1113321	SOIL/SEDIME	68.2	1.0	1.00			06/30/2008		CLP
LDUP		1114329	SOIL/SEDIME	65.3	1.0	1.00		4.36	06/30/2008		
ESMP	R2844766	1113568	SOIL/SEDIME	88.8	1.0	1.00			06/30/2008	RUN	ASPB

Records printed: 39

Reviewed & Approved

By: OK

Date: 7/2/08

SOLIDS REPORT

RUN #: 163196 ANALYSIS DATE: 06/30/2008 ASSIGNED TO :

TEMPLATE: DWPS

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL TYPE	GROSS (g)	TARE (g)	DIFF (g)	% SOLID	DISH ID	LS	LS
									JOB#	LOC#
1	1114324	R28 0	MBLK	(1.2500-1.2500)=0.0000			DRY*100 = 1.00	9		
				(0.0000-1.2500)=-1.2500			WET			
2	1110980	R2844606	ESMP	(10.0100-1.2700)=8.7400			DRY*100 = 82.30	14		
				(11.8900-1.2700)=10.6200			WET			
3	1111013	R2844608	ESMP	(10.4500-1.2700)=9.1800			DRY*100 = 88.00	16		
				(11.7000-1.2700)=10.4300			WET			
4	1112054	R2844649	ESMP	(11.3600-1.2900)=10.0700			DRY*100 = 96.10	19		
				(11.7700-1.2900)=10.4800			WET			
5	1112055	R2844649	ESMP	(11.7200-1.2700)=10.4500			DRY*100 = 98.80	23		
				(11.8500-1.2700)=10.5800			WET			
6	1114325	R28 0	DUPE	(11.5100-1.2800)=10.2300			DRY*100 = 98.70	24		
				(11.6400-1.2800)=10.3600			WET			
7	1112058	R2844649	ESMP	(11.8200-1.2700)=10.5500			DRY*100 = 96.40	25		
				(12.2100-1.2700)=10.9400			WET			
8	1112021	R2844647	ESMP	(3.2100-1.2700)=1.9400			DRY*100 = 18.80	27		
				(11.5700-1.2700)=10.3000			WET			
9	1112022	R2844647	ESMP	(3.2400-1.2500)=1.9900			DRY*100 = 19.30	28		
				(11.5700-1.2500)=10.3200			WET			
10	1112023	R2844647	ESMP	(3.3500-1.2800)=2.0700			DRY*100 = 18.60	29		
				(12.4100-1.2800)=11.1300			WET			
11	1112024	R2844647	ESMP	(4.4600-1.2700)=3.1900			DRY*100 = 31.10	31		
				(11.5300-1.2700)=10.2600			WET			
12	1112025	R2844647	ESMP	(4.4700-1.2700)=3.2000			DRY*100 = 30.80	32		
				(11.6400-1.2700)=10.3700			WET			
13	1112026	R2844647	ESMP	(4.6500-1.2800)=3.3700			DRY*100 = 32.20	33		
				(11.7500-1.2800)=10.4700			WET			
14	1112027	R2844647	ESMP	(4.9700-1.2600)=3.7100			DRY*100 = 36.70	34		
				(11.3700-1.2600)=10.1100			WET			
15	1112068	R2844651	ESMP	(10.7800-1.2600)=9.5200			DRY*100 = 93.40	40		
				(11.4500-1.2600)=10.1900			WET			
16	1112115	R2844647	ESMP	(5.0700-1.2400)=3.8300			DRY*100 = 36.90	41		
				(11.6100-1.2400)=10.3700			WET			
17	1112221	R2844659	ESMP	(8.6800-1.2500)=7.4300			DRY*100 = 67.90	10		
				(12.1900-1.2500)=10.9400			WET			
18	1112361	R2844666	ESMP	11.40 (4.4300-1.2600)=0.1700			DRY*100 = 1.57	42		
				(12.1100-1.2600)=10.8500			WET			
19	1112362	R2844666	ESMP	(10.6700-1.2500)=9.4200			DRY*100 = 91.40	43		
				(11.5600-1.2500)=10.3100			WET			
20	1114326	R28 0	DUPE	(10.6400-1.2300)=9.4100			DRY*100 = 91.50	44		
				(11.5100-1.2300)=10.2800			WET			
21	1112363	R2844666	ESMP	(11.2100-1.2600)=9.9500			DRY*100 = 93.10	45		
				(11.9500-1.2600)=10.6900			WET			
22	1112364	R2844666	ESMP	(8.1200-1.2300)=6.8900			DRY*100 = 63.80	46		
				(12.0300-1.2300)=10.8000			WET			
23	1112365	R2844666	ESMP	(8.2200-1.2300)=6.9900			DRY*100 = 66.60	48		
				(11.7300-1.2300)=10.5000			WET			
24	1113110	R2844744	ESMP	(9.7000-1.2900)=8.4100			DRY*100 = 83.80	90		
				(11.3300-1.2900)=10.0400			WET			
25	1113245	R2844666	ESMP	(10.0300-1.3000)=8.7300			DRY*100 = 86.40	98		
				(11.4000-1.3000)=10.1000			WET			

SOLIDS REPORT

RUN #: 163196 ANALYSIS DATE: 06/30/2008 ASSIGNED TO :

TEMPLATE: DWPS

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL			DIFF (g)	% SOLID	DISH ID	LS	LS
			TYPE	GROSS (g)	TARE (g)				JOB#	LOC#
26	1113249	R2844666	ESMP	(9.6400-1.3000)=8.3400			DRY*100 = 82.20	63		
				(11.4500-1.3000)=10.1500			WET			
27	1113250	R2844666	ESMP	(10.8600-1.3000)=9.5600			DRY*100 = 91.80	88		
				(11.7100-1.3000)=10.4100			WET			
28	1114327	R28 0	DUPE	(10.8000-1.3000)=9.5000			DRY*100 = 91.70	96		
				(11.6600-1.3000)=10.3600			WET			
29	1113254	R2844666	ESMP	(8.5500-1.2900)=7.2600			DRY*100 = 71.10	36		
				(11.5000-1.2900)=10.2100			WET			
30	1113255	R2844666	ESMP	(7.9900-1.2800)=6.7100			DRY*100 = 61.80	91		
				(12.1300-1.2800)=10.8500			WET			
31	1113256	R2844666	ESMP	(11.0200-1.2900)=9.7300			DRY*100 = 93.40	84		
				(11.7100-1.2900)=10.4200			WET			
32	1113257	R2844666	ESMP	(10.7400-1.2500)=9.4900			DRY*100 = 91.80	1		
				(11.5900-1.2500)=10.3400			WET			
33	1113258	R2844666	ESMP	(8.7600-1.2300)=7.5300			DRY*100 = 72.80	2		
				(11.5700-1.2300)=10.3400			WET			
34	1113259	R2844666	ESMP	(8.7400-1.2400)=7.5000			DRY*100 = 69.40	3		
				(12.0500-1.2400)=10.8100			WET			
35	1113262	R2844666	ESMP	(11.0400-1.2300)=9.8100			DRY*100 = 92.60	4		
				(11.8200-1.2300)=10.5900			WET			
36	1113320	R2844756	ESMP	(9.2900-1.2600)=8.0300			DRY*100 = 74.90	5		
				(11.9800-1.2600)=10.7200			WET			
37	1113321	R2844756	ESMP	(8.5900-1.2500)=7.3400			DRY*100 = 68.20	6		
				(12.0200-1.2500)=10.7700			WET			
38	1114329	R28 0	DUPE	(8.0600-1.2500)=6.8100			DRY*100 = 65.30	7		
				(11.6800-1.2500)=10.4300			WET			
39	1113568	R2844766	ESMP	(10.3400-1.2500)=9.0900			DRY*100 = 88.80	8		
				(11.4800-1.2500)=10.2300			WET			

Analyte: % Volatile Solids
 Method: SM20 2540G
 Analytes: Dry Weight % Solid
 Method : EPA-600 160.4

Analyst: E. WOLFE
 Pipet: N/A
 Thermolyne 48000 Muffle Furnace
 Balance ID TOPLOADER
 "S" Weight Initial: 9.99

Date: 7/1/08
 Time: 11:30
 Oven ID 2
 Final: 9.99

% Volatile Solids:

$$\% VS = (A - D) / (A - B) * 100$$

% Solids:

$$\% Solid = (A - B) / (C - B) * 100$$

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.

Submission #	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids	
1	MB	9	C) 1.2500	Dry wgt (A) 1.2500		1.00	
			B) 1.2500	550 wgt (D)			
2	44606	R-1110980	14	C) 11.8900	Dry wgt (A) 10.0100		82.30
				B) 1.2700	550 wgt (D)		
3	44608	R-1111013	16	C) 11.7000	Dry wgt (A) 10.4500		88.02
				B) 1.2700	550 wgt (D)		
4	44649	R-1112054	19	C) 11.7700	Dry wgt (A) 11.3600		96.09
				B) 1.2900	550 wgt (D)		
5	R-1112055	23	23	C) 11.8500	Dry wgt (A) 11.7200		98.77
				B) 1.2700	550 wgt (D)		
6	R-1112055 DUP	24	24	C) 11.6400	Dry wgt (A) 11.5100		98.75
				B) 1.2800	550 wgt (D)		
7	R-1112058	25	25	C) 12.2100	Dry wgt (A) 11.8200		96.44
				B) 1.2700	550 wgt (D)		
8	44647	R-1112021	27	C) 11.5700	Dry wgt (A) 3.2100		18.68
				B) 1.2900	550 wgt (D)		
9	R-1112022	28	28	C) 11.5700	Dry wgt (A) 3.2400		19.28
				B) 1.2500	550 wgt (D)		
10	R-1112023	29	29	C) 12.4100	Dry wgt (A) 3.3500		18.60
				B) 1.2800	550 wgt (D)		
11	R-1112024	31	31	C) 11.5300	Dry wgt (A) 4.4600		31.09
				B) 1.2700	550 wgt (D)		
12	R-1112025	32	32	C) 11.6400	Dry wgt (A) 4.4700		30.86
				B) 1.2700	550 wgt (D)		
13	R-1112026	33	33	C) 11.7500	Dry wgt (A) 4.6500		32.19
				B) 1.2800	550 wgt (D)		
14	R-1112027	34	34	C) 11.3700	Dry wgt (A) 4.9700		36.70
				B) 1.2600	550 wgt (D)		
15	44651	R-1112068	40	C) 11.4500	Dry wgt (A) 10.7800		93.42
				B) 1.2600	550 wgt (D)		
16	44647	R-1112115	41	C) 11.6100	Dry wgt (A) 5.0700		36.93
				B) 1.2400	550 wgt (D)		
17	44666	R-1112361	42	C) 12.1100	Dry wgt (A) 11.4300		93.73
				B) 1.2600	550 wgt (D)		
18	R-1112362	43	43	C) 11.5600	Dry wgt (A) 10.6700		91.37
				B) 1.2500	550 wgt (D)		
19	R-1112362 DUP	44	44	C) 11.5100	Dry wgt (A) 10.6400		91.54
				B) 1.2300	550 wgt (D)		
20	R-1112363	45	45	C) 11.9500	Dry wgt (A) 11.2100		93.08
				B) 1.2600	550 wgt (D)		

Analyte: % Volatile Solids
 Method: SM20 2540G
 Analytes: Dry Weight % Solid
 Method : EPA-600 160.4

Analyst: E. WOLFE
 Pipet: N/A
 Thermolyne 48000 Muffle Furnace
 Balance ID TOPLOADER
 "S" Weight Initial: 9.99

Date: 7/1/08
 Time: 11:30
 Oven ID 2
 Final: 9.99

% Volatile Solids:

$$\% VS = (A - D) / (A - B) * 100$$

% Solids:

$$\% Solid = (A - B) / (C - B) * 100$$

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.

Submission #	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
21	R-1112364	46	C) 12.0300	Dry wgt (A): 8.1200		63.80
			B) 1.2300	550 wgt (D):		
22	R-1112365	48	C) 11.7300	Dry wgt (A): 8.2200		66.57
			B) 1.2300	550 wgt (D):		
23	44744 R-1113110	90	C) 11.3300	Dry wgt (A): 9.7000		83.76
			B) 1.2900	550 wgt (D):		
24	MB	841	C)	Dry wgt (A): 1.3100		1.00
			B) 1.3100	550 wgt (D):		
25	44666 R-1113245	98	C) 11.4000	Dry wgt (A): 10.0300		86.44
			B) 1.3000	550 wgt (D):		
26	R-1113249	63	C) 11.4500	Dry wgt (A): 9.6400		82.17
			B) 1.3000	550 wgt (D):		
27	R-1113250	88	C) 11.7100	Dry wgt (A): 10.8600		91.83
			B) 1.3000	550 wgt (D):		
28	R-1113250 DUP	96	C) 11.6600	Dry wgt (A): 10.8000		91.70
			B) 1.3000	550 wgt (D):		
29	R-1113254	36	C) 11.5000	Dry wgt (A): 8.5500		71.11
			B) 1.2900	550 wgt (D):		
30	R-1113255	91	C) 12.1300	Dry wgt (A): 7.9900		61.84
			B) 1.2800	550 wgt (D):		
31	R-1113256	84	C) 11.7100	Dry wgt (A): 11.0200		93.38
			B) 1.2900	550 wgt (D):		
32	R-1113257	1	C) 11.5900	Dry wgt (A): 10.7400		91.78
			B) 1.2500	550 wgt (D):		
33	R-1113258	2	C) 11.5700	Dry wgt (A): 8.7600		72.82
			B) 1.2300	550 wgt (D):		
34	R-1113259	3	C) 12.0500	Dry wgt (A): 8.7400		69.38
			B) 1.2400	550 wgt (D):		
35	R-1113262	4	C) 11.8200	Dry wgt (A): 11.0400		92.63
			B) 1.2300	550 wgt (D):		
36	44756 R-1113320	5	C) 11.9800	Dry wgt (A): 9.2900		74.91
			B) 1.2600	550 wgt (D):		
37	R-1113321	6	C) 12.0200	Dry wgt (A): 8.5900		68.15
			B) 1.2500	550 wgt (D):		
38	R-1113321 DUP	7	C) 11.6800	Dry wgt (A): 8.0600		65.29
			B) 1.2500	550 wgt (D):		
39	44766 R-1113568	8	C) 11.4800	Dry wgt (A): 10.3400		88.86
			B) 1.2500	550 wgt (D):		
40	44659 R-1112221	10	C) 12.1900	Dry wgt (A): 8.6800		67.92
			B) 1.2500	550 wgt (D):		

