



ALS Environmental
ALS Group USA, Corp.
1317 South 13th Avenue
Kelso, WA 98626
T: +1 360 577 7222
F: +1 360 636 1068
www.alsglobal.com

June 30, 2014

Analytical Report for Service Request No: K1405818

Paul Berman
Anamar Environmental Consulting, Inc.
2106 NW 67th Place, Suite 5
Gainesville, FL 32653

RE: Shipyard Creek MPRSA S103

Dear Paul:

Enclosed are the results of the samples submitted to our laboratory on June 10, 2014. For your reference, these analyses have been assigned our service request number K1405818.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3293. You may also contact me via Email at Shar.Samy@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Shar Samy, Ph.D.
Project Manager

SS/mj

Page 1 of 822

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2286
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L12-28
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Georgia DNR	http://www.gaepd.org/Documents/techguide_pcb.html#cel	881
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjllabs.com/	L12-27
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	3016
Maine DHS	Not available	WA0035
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA35
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA200001
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	4704427-08-TX
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C1203
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client: Anamar Environmental Consulting, Inc. **Service Request No.:** K1405818
Project: Shipyard Creek MPRSA S103 **Date Received:** 06/10/14
Sample Matrix: Site Water/Elutriate

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Site water and sediment samples were received for analysis at ALS Environmental on 06/10/14 through 06/12/14. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory. Three elutriate samples were prepared at the laboratory on 06/12/14.

General Chemistry Parameters

No anomalies associated with the analysis of these samples were observed.

Total Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike and matrix spike duplicate recoveries of Arsenic for sample SYC14-AC-Elutriate were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recoveries.

No other anomalies associated with the analysis of these samples were observed.

Organochlorine Pesticides by EPA Method 8081

Second Source Exceptions:

The analysis of Chlorinated Pesticides by EPA 8081 requires the use of dual column confirmation. When the Initial Calibration Verification (ICV) criteria are met for both columns, the lower of the two sample results is generally reported. The criteria were not met for Endrin Aldehyde in CAL 13214. The data quality was not affected. No further corrective action was necessary.

Elevated Detection Limits:

The detection limit was elevated for a few analytes in these field samples. The chromatogram indicated the presence of non-target background components. The matrix interference prevented adequate resolution of the target compounds at the normal limit. The results were flagged to indicate the matrix interference.

Matrix Spike Recovery Exceptions:

Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for sample SYC14-SW.

No other anomalies associated with the analysis of these samples were observed.

Approved by _____





Chain of Custody

ALS Environmental—Kelso Laboratory
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Chain-of-Custody

Station ID	Sample Date	Sample Time	Sample Matrix	Sample Containers	Number of Containers	Analyses Requested	Comments
SYC14-SW	06/04/14	1029	Water	Teflon lined cubitainers	6	For elutriate preparation	Sediment samples will be shipped 6/10/14
SYC14-SW	06/04/14	1029	Water	Various (Site water kit)	~12	Ammonia, metals, pesticides (see list from Shar Samy)	

Samples Relinquished by: Paul Bern Received by: B. S. S. S. Custody seals intact (Y/N) _____

Date: 6/9/14 Time: 1400 Date: 6/10/14 Time: 9:30

Samples Relinquished by: _____ Received by: _____ ANAMAR Environmental Consulting, Inc.

Date: _____ Time: _____ Date: _____ Time: _____ 2106 NW 67th Place, Suite 5

Samples Relinquished by: _____ Received by: _____ Gainesville, FL 32653

Date: _____ Time: _____ Date: _____ Time: _____ (352) 377-5770 FAX (352) 378-1500

R1405818



PROJECT: SHIPYARD CREEK MPRSA §103

Shipped via Fed Ex to ALS

Chain-of-Custody

Page 2 of 2

Station ID	Sample Date	Sample Time	Sample Matrix	Sample Containers	Number of Containers	Analyses Requested	Comments
SYC14-AC	06/04/14	0711	Sediment	Teflon bag	1	For elutriate prep, then analyze for ammonia, metals, and pesticides (see attached list)	Please let Shar Samy know as soon as these arrive before logging in
SYC14-TB1	06/02/14	0858	Sediment	Teflon bag	1		
SYC14-TB2	06/03/14	1136	Sediment	Teflon bag	1		

Samples Relinquished by: Paul Bern
 Date: 6/10/14 Time: 1500

Received by: SW
 Date: 6/10/14 Time: 0940

Custody seals intact (Y/N) _____

Samples Relinquished by: _____
 Date: _____ Time: _____

Received by: _____
 Date: _____ Time: _____

ANAMAR Environmental Consulting, Inc.

2106 NW 67th Place, Suite 5

Samples Relinquished by: _____
 Date: _____ Time: _____

Received by: _____
 Date: _____ Time: _____

Gainesville, FL 32653

(352) 377-5770 FAX (352) 378-1500



Cooler Receipt and Preservation Form

Client / Project: Anamar Service Request K14

Received: 6/10/14 Opened: 6/10/14 By: U Unloaded: 6/10/14 By: U

- 1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other _____ NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
-0.5	-0.6	—	—	-0.1	328	54C14-SW	7702 3978 9233		
-0.6	-0.7	—	—	-0.1	316		7702 3978 8752		

- 4. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
- 5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
- 7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
- 8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
- 9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
- 11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
- 12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Out of	Head-	Broke	pH	Reagent	Volume	Reagent Lot	Initials	Time
	Bottle Type	Temp	space				added	Number		

Notes, Discrepancies, & Resolutions: water



Cooler Receipt and Preservation Form

Client / Project: Anamar Service Request K14

Received: 6/10/14 Opened: 6/10/14 By: UU Unloaded: 6/10/14 By: UU

- 1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other _____ NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number		NA	Filed
0.7	0.4			-0.3	327	SYC14-SW	7702 3978	8524		
-0.5	-0.5			0	333	SYC14-SW	7702 3978	8763		
-0.1	0			+0.1	340	SYC14-SW	7702 3978	8903		
-0.7	-0.6			+0.1	342	SYC14-SW	7702 3978	8969		
-0.5	-0.8			-0.3	308	SYC14-SW	7702 3978	8936		

- 4. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
- 5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 5. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
- 7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
- 8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
- 9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
- 11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
- 12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: Water



PC Shar

Cooler Receipt and Preservation Form

Client / Project: Anamar

Service Request K14

05818

Received: 6-10-14 Opened: 6-10-14 By: bw Unloaded: 6-10-14 By: bw

- 1. Samples were received via? *Mail* Fed Ex *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
- 2. Samples were received in: (circle) Cooler *Box* *Envelope* *Other* NA
- 3. Were custody seals on coolers? *NA* *Y* N If yes, how many and where? _____
If present, were custody seals intact? *Y* N If present, were they signed and dated? *Y* *N* N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
<u>0.6</u>	<u>0.6</u>	<u>1.1</u>	<u>1.1</u>	<u>0.0</u>	<u>325</u>	<u>NA</u>	<u>7702 3978 8752</u>		

- 4. Packing material: *Inserts* Baggies *Bubble Wrap* Gel Packs *Wet Ice* Dry Ice *Sleeves*
- 5. Were custody papers properly filled out (ink, signed, etc.)? *NA* Y *N*
- 6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* *NA* Y *N*
- 7. Were all sample labels complete (i.e analysis, preservation, etc.)? *NA* Y *N*
- 8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* *NA* Y *N*
- 9. Were appropriate bottles/containers and volumes received for the tests indicated? *NA* Y *N*
- 10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* *NA* Y *N*
- 11. Were VOA vials received without headspace? *Indicate in the table below.* *NA* Y *N*
- 12. Was C12/Res negative? *NA* Y *N*

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: Received 18 bottles for SYC14-SW



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water
Analysis Method: SM 2520 B
Prep Method: None

Service Request: K1405818
Date Collected: 06/4/14
Date Received: 06/10/14
Units: g/Kg
Basis: NA

Salinity

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
SYC14-SW	K1405818-001	27.5	2.0	-	1	06/13/14 11:45	
Method Blank	K1405818-MB	ND U	2.0	-	1	06/13/14 11:45	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: NA
Date Received: NA
Date Analyzed: 06/13/14

Replicate Sample Summary
General Chemistry Parameters

Sample Name: Batch QC
Lab Code: K1405855-001

Units: g/Kg
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1405855-001DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Salinity	SM 2520 B	2.0	-	ND	ND	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Analyzed: 06/13/14
Date Extracted: NA

Lab Control Sample Summary
Salinity

Analysis Method: SM 2520 B
Prep Method: None

Units: g/Kg
Basis: NA
Analysis Lot: 397062

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1405818-LCS	16.8	17.5	96	85-115

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water
Analysis Method: SM 4500-NH3 G
Prep Method: Method

Service Request: K1405818
Date Collected: 06/04/14 - 06/12/14
Date Received: 06/10/14 - 06/12/14
Units: mg/L
Basis: NA

Ammonium

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
SYC14-SW	K1405818-001	0.114	0.050	0.020	1	06/13/14 11:39	6/13/14	
SYC14-AC Elutriate	K1405818-002	28.6	0.50	0.20	10	06/13/14 11:39	6/13/14	
SYC14-TB1 Elutriate	K1405818-003	44.8	2.5	1.0	50	06/13/14 11:39	6/13/14	
SYC14-TB2 Elutriate	K1405818-004	43.1	2.5	1.0	50	06/13/14 11:39	6/13/14	
Method Blank	K1405818-MB	ND U	0.050	0.020	1	06/13/14 11:39	6/13/14	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/12/14
Date Received: 06/12/14
Date Analyzed: 06/13/14

Replicate Sample Summary
General Chemistry Parameters

Sample Name: SYC14-AC Elutriate
Lab Code: K1405818-002

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1405818-002DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Ammonium	SM 4500-NH3 G	0.50	0.20	28.6	28.4	28.5	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/12/14
Date Received: 06/12/14
Date Analyzed: 06/13/14
Date Extracted: 06/13/14

Duplicate Matrix Spike Summary
Ammonium

Sample Name: SYC14-AC Elutriate
Lab Code: K1405818-002
Analysis Method: SM 4500-NH3 G
Prep Method: Method

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1405818-002MS		Duplicate Matrix Spike K1405818-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Ammonium	28.6	127	100	98	127	100	99	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Analyzed: 06/13/14
Date Extracted: 06/13/14

Lab Control Sample Summary
Ammonium

Analysis Method: SM 4500-NH3 G
Prep Method: Method

Units: mg/L
Basis: NA
Analysis Lot: 397124

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1405818-LCS	11.1	10.8	103	90-110

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818

Continuing Calibration Verification (CCV) Summary

Ammonium

Analysis Method: SM 4500-NH3 G

Units: mg/L

	Analysis		Date	True	Measured	Percent	Acceptance
	Lot	Lab Code	Analyzed	Value	Value	Recovery	Limits
CCV1	397124	KQ1406583-01	06/13/14 11:39	2.00	1.99	99	90-110
CCV2	397124	KQ1406583-02	06/13/14 11:39	2.00	1.97	99	90-110
CCV3	397124	KQ1406583-03	06/13/14 11:39	2.00	1.94	97	90-110
CCV4	397124	KQ1406583-04	06/13/14 11:39	2.00	1.96	98	90-110
CCV5	397124	KQ1406583-05	06/13/14 11:39	2.00	1.97	99	90-110
CCV6	397124	KQ1406583-06	06/13/14 11:39	2.00	1.96	98	90-110
CCV7	397124	KQ1406583-07	06/13/14 11:39	2.00	1.98	99	90-110
CCV8	397124	KQ1406583-08	06/13/14 11:39	2.00	1.95	98	90-110
CCV9	397124	KQ1406583-09	06/13/14 11:39	2.00	1.96	98	90-110
CCV10	397124	KQ1406583-10	06/13/14 11:39	2.00	1.96	98	90-110

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request:K1405818

Continuing Calibration Blank (CCB) Summary
Ammonium

Analysis Method: SM 4500-NH3 G

Units:mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	397124	KQ1406583-11	06/13/14 11:39	0.050	0.020	ND	U
CCB2	397124	KQ1406583-12	06/13/14 11:39	0.050	0.020	0.021	J
CCB3	397124	KQ1406583-13	06/13/14 11:39	0.050	0.020	0.033	J
CCB4	397124	KQ1406583-14	06/13/14 11:39	0.050	0.020	0.029	J
CCB5	397124	KQ1406583-15	06/13/14 11:39	0.050	0.020	ND	U
CCB6	397124	KQ1406583-16	06/13/14 11:39	0.050	0.020	ND	U
CCB7	397124	KQ1406583-17	06/13/14 11:39	0.050	0.020	ND	U
CCB8	397124	KQ1406583-18	06/13/14 11:39	0.050	0.020	0.022	J
CCB9	397124	KQ1406583-19	06/13/14 11:39	0.050	0.020	0.025	J
CCB10	397124	KQ1406583-20	06/13/14 11:39	0.050	0.020	ND	U



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Anamar Environmental Consulting, Inc.
Project Name: Shipyard Creek MPRSA S103
Project No.:

Service Request: K1405818

<u>Sample Name:</u>	<u>Lab Code:</u>
<u>SYC14-SW</u>	<u>K1405818-001</u>
<u>SYC14-AC Elutriate</u>	<u>K1405818-002</u>
<u>SYC14-AC ElutriateD</u>	<u>K1405818-002D</u>
<u>SYC14-AC ElutriateS</u>	<u>K1405818-002S</u>
<u>SYC14-AC ElutriateSD</u>	<u>K1405818-002SD</u>
<u>SYC14-TB1 Elutriate</u>	<u>K1405818-003</u>
<u>SYC14-TB2 Elutriate</u>	<u>K1405818-004</u>
<u>Method Blank</u>	<u>K1405818-MB</u>

Comments:

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Anamar Environmental Consulting **Service Request:** K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

ICV Source: Inorganic Ventures

CCV Source: ALS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Antimony	25.0	26.9	108	25.0	24.6	98	25.0	100	200.8
Arsenic	25.0	25.4	102	25.0	24.7	99	25.6	102	200.8
Beryllium	2.5	2.4	96	25.0	24.9	100	25.9	104	200.8
Cadmium	12.5	12.9	103	25.0	25.0	100	25.7	103	200.8
Chromium	10.0	9.6	96	25.0	24.7	99	25.7	103	200.8
Copper	12.5	12.0	96	25.0	24.9	100	25.8	103	200.8
Lead	25.0	24.5	98	25.0	24.9	100	25.6	102	200.8
Mercury	5.00	5.00	100	5.00	5.20	104	5.20	104	7470A
Nickel	25.0	24.7	99	25.0	25.1	100	25.2	101	200.8
Selenium	7.50	7.48	100	7.50	8.05	107	8.24	110	7742
Silver	12.5	12.4	99	25.0	24.9	100	25.6	102	200.8
Thallium	25.0	24.9	100	25.0	24.9	100	25.7	103	200.8
Zinc	25.0	24.8	99	25.0	25.0	100	25.7	103	200.8

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Anamar Environmental Consulting **Service Request:** K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

ICV Source: Inorganic Ventures

CCV Source: ALS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Antimony				25.0	25.1	100	24.8	99	200.8
Arsenic				25.0	25.3	101			200.8
Beryllium				25.0	26.4	106			200.8
Cadmium				25.0	25.0	100			200.8
Chromium				25.0	25.2	101			200.8
Copper				25.0	25.6	102			200.8
Lead				25.0	25.0	100			200.8
Nickel				25.0	24.9	100			200.8
Selenium				7.50	7.13	95			7742
Silver				25.0	24.9	100			200.8
Thallium				25.0	25.0	100			200.8
Zinc				25.0	25.3	101			200.8

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Anamar Environmental Consulting **Service Request:** K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

ICV Source: Inorganic Ventures

CCV Source: ALS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Antimony				25.0	24.5	98			200.8

Metals

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial True	Initial Found	Initial %R	Final Found	Final %R
Antimony				0.05	0.06	120		
Arsenic				5.0	5.15	103		
Beryllium				0.20	0.203	102		
Cadmium				0.200	0.206	103		
Chromium				2.00	1.96	98		
Copper				1.00	1.02	102		
Lead				0.20	0.220	110		
Mercury	0.20	0.21	105					
Nickel				2.00	2.15	108		
Selenium	0.50	0.49	98					
Silver				0.20	0.157	78		
Thallium				0.20	0.20	100		
Zinc				5.00	5.05	101		

Metals

- 3 -

BLANKS

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

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)						Method
		C	1	C	2	C	3	C	
Antimony	0.026	J	0.013	J	0.026	J	0.026	J	200.8
Arsenic	0.3	U	0.3	U	0.3	U	0.3	U	200.8
Beryllium	0.007	U	0.007	U	0.007	U	0.007	U	200.8
Cadmium	0.01	U	0.01	J	0.01	J	0.01	U	200.8
Chromium	0.2	U	0.2	U	0.2	U	0.2	U	200.8
Copper	0.03	U	0.03	U	0.03	U	0.03	U	200.8
Lead	0.08	U	0.08	U	0.08	U	0.08	U	200.8
Mercury	0.02	U	0.02	U	0.02	U			7470A
Nickel	0.4	U	0.4	U	0.4	U	0.4	U	200.8
Selenium	0.10	U	0.10	U	0.10	U	0.10	U	7742
Silver	0.03	J	0.02	U	0.02	U	0.02	U	200.8
Thallium	0.04	U	0.04	U	0.04	U	0.04	U	200.8
Zinc	0.5	U	0.5	U	0.5	U	0.5	U	200.8

Metals

- 3 -

BLANKS

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

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)						Method	
		C	1	C	2	C	3		C
Antimony			0.029	J	0.026	J			200.8

Metals
- 5A -
SPIKE SAMPLE RECOVERY

Client: Anamar Environmental Consulting **Service Request:** K1405818
Project No.: NA **Units:** UG/L
Project Name: Shipyard Creek MPRSA S103 **Basis:** NA
Matrix: WATER

Sample Name: SYC14-AC Elutriates

Lab Code: K1405818-002S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	70 - 130	1020		1.45		1000.00	101.9		200.8
Arsenic		20.7		18.9		2.00	90.0		200.8
Beryllium	50 - 123	1.80		0.006	J	2.00	89.7		200.8
Cadmium	65 - 114	1.80		0.010	J	2.00	89.5		200.8
Chromium	50 - 130	2.20		0.30		2.00	95.0		200.8
Copper	50 - 120	2.03		0.243		2.00	89.4		200.8
Lead	55 - 118	2.06		0.25		2.00	90.5		200.8
Mercury	80 - 120	0.87		0.02	U	1.00	85.0		7470A
Nickel	60 - 126	2.37		0.35		2.00	101.0		200.8
Selenium	75 - 125	16.0		0.20	U	16.00	100.0		7742
Silver	67 - 103	1.70		0.003	J	2.00	84.8		200.8
Thallium	63 - 111	1.73		0.004	U	2.00	86.5		200.8
Zinc	50 - 133	2.5		0.7		2.00	90.0		200.8

An empty field in the Control Limit column indicates the control limit is not applicable

Metals
- 5A -
SPIKE SAMPLE RECOVERY

Client: Anamar Environmental Consulting **Service Request:** K1405818
Project No.: NA **Units:** UG/L
Project Name: Shipyard Creek MPRSA S103 **Basis:** NA
Matrix: WATER

Sample Name: SYC14-AC ElutriateSD **Lab Code:** K1405818-002SD

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	70 - 130	1050		1.45		1000.00	104.9		200.8
Arsenic		19.8		18.9		2.00	45.0		200.8
Beryllium	50 - 123	1.80		0.006	J	2.00	89.7		200.8
Cadmium	65 - 114	1.80		0.010	J	2.00	89.5		200.8
Chromium	50 - 130	2.10		0.30		2.00	90.0		200.8
Copper	50 - 120	1.97		0.243		2.00	86.4		200.8
Lead	55 - 118	1.97		0.25		2.00	86.0		200.8
Mercury	80 - 120	0.86		0.02	U	1.00	84.0		7470A
Nickel	60 - 126	2.38		0.35		2.00	101.5		200.8
Selenium	75 - 125	15.0		0.20	U	16.00	93.8		7742
Silver	67 - 103	1.70		0.003	J	2.00	84.8		200.8
Thallium	63 - 111	1.68		0.004	U	2.00	84.0		200.8
Zinc	50 - 133	2.4		0.7		2.00	85.0		200.8

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5B -

POST SPIKE SAMPLE RECOVERY

Client: Anamar Environmental Consulting **Service Request:** K1405818
Project No.: NA **Units:** UG/L
Project Name: Shipyard Creek MPRSA S103 **Basis:** NA
Matrix: WATER

Sample Name: Batch QC1A

Lab Code: K1405721-002A

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Selenium	80 - 120	4.88		0.17		5.0	94		7742

Metals

- 5B -

POST SPIKE SAMPLE RECOVERY

Client: Anamar Environmental Consulting **Service Request:** K1405818
Project No.: NA **Units:** UG/L
Project Name: Shipyard Creek MPRSA S103 **Basis:** NA
Matrix: WATER

Sample Name: SYC14-AC ElutriateA

Lab Code: K1405818-002A

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Mercury	80 - 120	0.87	0.02	1.0	85		7470A

Metals
- 6 -
DUPLICATES

Client: Anamar Environmental Consulting **Service Request:** K1405818
Project No.: NA **Units:** UG/L
Project Name: Shipyard Creek MPRSA S103 **Basis:** NA
Matrix: WATER

Sample Name: SYC14-AC Elutriated **Lab Code:** K1405818-002D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		1.45		1.63		11.7		200.8
Arsenic	20	18.9		19.6		3.6		200.8
Beryllium		0.006	J	0.007	J	15.4		200.8
Cadmium		0.010	J	0.011	J	9.5		200.8
Chromium		0.30		0.31		3.3		200.8
Copper		0.243		0.251		3.2		200.8
Lead	20	0.25		0.26		3.9		200.8
Mercury		0.02	U	0.02	U			7470A
Nickel		0.35		0.38		8.2		200.8
Selenium		0.20	U	0.20	U			7742
Silver		0.003	J	0.002	U	200.0		200.8
Thallium		0.004	U	0.004	U			200.8
Zinc		0.7		0.6		15.4		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals
- 6 -
DUPLICATES

Client: Anamar Environmental Consulting **Service Request:** K1405818
Project No.: NA **Units:** UG/L
Project Name: Shipyard Creek MPRSA S103 **Basis:** NA
Matrix: WATER

Sample Name: SYC14-AC ElutriateSD **Lab Code:** K1405818-002SD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony	20	1020		1050		2.9		200.8
Arsenic	20	20.7		19.8		4.4		200.8
Beryllium	20	1.80		1.80		0.0		200.8
Cadmium	20	1.80		1.80		0.0		200.8
Chromium	20	2.20		2.10		4.7		200.8
Copper	20	2.03		1.97		3.0		200.8
Lead	20	2.06		1.97		4.5		200.8
Mercury	20	0.87		0.86		1.2		7470A
Nickel	20	2.37		2.38		0.4		200.8
Selenium	20	16.0		15.0		6.5		7742
Silver	20	1.70		1.70		0.0		200.8
Thallium	20	1.73		1.68		2.9		200.8
Zinc	20	2.5		2.4		4.1		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 7 -

LABORATORY CONTROL SAMPLE

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

Aqueous LCS Source: ALS MIXED

Solid LCS Source:

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Antimony	50	49.1	98.2					
Arsenic	2	2.00	100.0					
Beryllium	2	1.40	70.0					
Cadmium	2	2.00	100.0					
Chromium	2	2.00	100.0					
Copper	2	1.94	97.0					
Lead	2	1.95	97.5					
Mercury	5	4.84	96.8					
Nickel	2	2.03	101.5					
Selenium	10	10.1	101.0					
Silver	2	1.90	95.0					
Thallium	2	1.92	96.0					
Zinc	2	2.2	110.0					

Metals

- 10 -

DETECTION LIMITS

Client: Anamar Environmental Consulting **Service Request:** K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

ICP/ICP-MS ID #:

GFAA ID #: K-FLAA-02

AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Selenium	196.0		0.50	0.10	H

Comments:

Metals

- 10 -

DETECTION LIMITS

Client: Anamar Environmental Consulting **Service Request:** K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Mercury	253.7		0.20	0.02	CV

Comments:

Metals

- 10 -

DETECTION LIMITS

Client: Anamar Environmental Consulting **Service Request:** K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

ICP/ICP-MS ID #: K-ICP-MS-03

GFAA ID #:

AA ID #:

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Antimony	123		0.050	0.005	MS
Arsenic	75		5.0	0.3	MS
Beryllium	9		0.20	0.007	MS
Cadmium	111		0.20	0.01	MS
Chromium	52		2.0	0.2	MS
Copper	65		1.00	0.03	MS
Lead	208		0.20	0.08	MS
Nickel	60		2.0	0.4	MS
Silver	107		0.20	0.02	MS
Thallium	205		0.20	0.040	MS
Zinc	66		5.0	0.5	MS

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Anamar Environmental Consulting **Service Request:** K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

ICP ID Number: **K-ICP-MS-03**

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony	15.000	2000	200.8

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Anamar Environmental Consulting **Service Request:** K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

ICP ID Number: **K-ICP-MS-03**

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic	15.000	2000	200.8
Beryllium	15.000	2000	200.8
Cadmium	15.000	2000	200.8
Chromium	15.000	2000	200.8
Copper	15.000	2000	200.8
Lead	15.000	2000	200.8
Nickel	15.000	2000	200.8
Silver	15.000	900	200.8
Thallium	15.000	2000	200.8
Zinc	15.000	2000	200.8

Comments:

Metals
-13-
PREPARATION LOG

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

Method: F

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
K1405818-001	06/17/14	50.0	50.0
K1405818-002	06/17/14	50.0	50.0
K1405818-002D	06/17/14	50.0	50.0
K1405818-002S	06/17/14	50.0	50.0
K1405818-002SD	06/17/14	50.0	50.0
K1405818-003	06/17/14	50.0	50.0
K1405818-004	06/17/14	50.0	50.0
K1405818-MB	06/17/14	50.0	50.0
LCSW	06/17/14	50.0	50.0

Metals
-13-
PREPARATION LOG

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

Method: CV

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
K1405818-001	06/18/14	20.0	20.0
K1405818-002	06/18/14	20.0	20.0
K1405818-002D	06/18/14	20.0	20.0
K1405818-002S	06/18/14	20.0	20.0
K1405818-002SD	06/18/14	20.0	20.0
K1405818-003	06/18/14	20.0	20.0
K1405818-004	06/18/14	20.0	20.0
K1405818-MB	06/18/14	20.0	20.0
LCSW	06/18/14	20.0	20.0

Metals
-13-
PREPARATION LOG

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
K1405818-001	06/16/14	2.5	50.0
K1405818-002	06/16/14	2.5	50.0
K1405818-002D	06/16/14	2.5	50.0
K1405818-002S	06/16/14	2.5	50.0
K1405818-002SD	06/16/14	2.5	50.0
K1405818-003	06/16/14	2.5	50.0
K1405818-004	06/16/14	2.5	50.0
K1405818-MB	06/16/14	50.0	50.0
LCSW	06/16/14	50.0	50.0

Metals
-13-
PREPARATION LOG

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Project Name: Shipyard Creek MPRSA S103

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
K1405818-001	06/18/14	1,000.0	100.0
K1405818-002	06/18/14	1,000.0	100.0
K1405818-002D	06/18/14	1,000.0	100.0
K1405818-002S	06/18/14	1,000.0	100.0
K1405818-002SD	06/18/14	1,000.0	100.0
K1405818-003	06/18/14	1,000.0	100.0
K1405818-004	06/18/14	1,000.0	100.0
K1405818-MB	06/18/14	1,000.0	100.0
LCSW	06/18/14	1,000.0	100.0

Metals
- 14 -

ANALYSIS RUN LOG

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Run Number: 062014-Set1

Project Name: Shipyard Creek MPRSA S103

Instrument ID Number: K-FLAA-02

Method: H

Start Date: 06/20/14

End Date: 06/20/14

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	S E	A G	N A	T L	V	Z N	C N
CAL BLK	1.0	09:09																		X							
STD 0.5	1.0	09:11																		X							
STD 1.0	1.0	09:14																		X							
STD 5.0	1.0	09:16																		X							
STD 7.5	1.0	09:19																		X							
STD 10.0	1.0	09:21																		X							
ICV1	1.0	09:23																		X							
ICB1	1.0	09:26																		X							
CRA1	1.0	09:28																		X							
ZZZZZZ	1.0	09:31																									
CCV1	1.0	09:37																		X							
CCB1	1.0	09:39																		X							
K1405818-MB	2.0	09:41																		X							
LCSW	2.0	09:44																		X							
ZZZZZZ	2.0	09:46																									
ZZZZZZ	2.0	09:48																									
ZZZZZZ	2.0	09:51																									
K1405721-002A	2.0	09:53																		X							
ZZZZZZ	2.0	09:56																									
ZZZZZZ	2.0	09:58																									
ZZZZZZ	2.0	10:00																									
ZZZZZZ	2.0	10:03																									
CCV2	1.0	10:05																		X							
CCB2	1.0	10:08																		X							
ZZZZZZ	2.0	10:10																									
ZZZZZZ	2.0	10:12																									
K1405818-001	2.0	10:15																		X							
K1405818-002	2.0	10:17																		X							
K1405818-002D	2.0	10:19																		X							
K1405818-002S	2.0	10:22																		X							
K1405818-002SD	2.0	10:24																		X							
K1405818-003	2.0	10:26																		X							

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

- 14 -

ANALYSIS RUN LOG

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Run Number: 062014-Set1

Project Name: Shipyard Creek MPRSA S103

Instrument ID Number: K-FLAA-02

Method: H

Start Date: 06/20/14

End Date: 06/20/14

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	S E	A G	N A	T L	V	Z N	C N
K1405818-004	2.0	10:29																		X							
ZZZZZZ	1.0	10:31																									
CCV3	1.0	10:34																		X							
CCB3	1.0	10:36																		X							

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -

ANALYSIS RUN LOG

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Run Number: 061814AMS03

Project Name: Shipyard Creek MPRSA S103

Instrument ID Number: K-ICP-MS-03

Method: MS

Start Date: 06/18/14

End Date: 06/18/14

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	Z N
Cal. Blk	1.0	06:40			X																					
Cal. Stn	1.0	06:43			X																					
ICV1	1.0	06:46			X																					
CCV1	1.0	06:49			X																					
ICB1	1.0	06:55			X																					
CCB1	1.0	07:00			X																					
CRA1	1.0	07:02			X																					
ZZZZZZ	1.0	07:06																								
ZZZZZZ	1.0	07:08																								
ZZZZZZ	1.0	07:11																								
ZZZZZZ	1.0	07:15																								
ZZZZZZ	1.0	07:17																								
ZZZZZZ	2.0	07:20																								
ZZZZZZ	2.0	07:23																								
ZZZZZZ	10.0	07:26																								
ZZZZZZ	2.0	07:29																								
ZZZZZZ	2.0	07:33																								
ZZZZZZ	2.0	07:36																								
ZZZZZZ	1.0	07:48																								
ZZZZZZ	5.0	07:51																								
CCV2	1.0	07:54			X																					
CCB2	1.0	08:00			X																					
ZZZZZZ	1.0	08:03																								
ZZZZZZ	1.0	08:08																								
ZZZZZZ	1.0	08:12																								
ZZZZZZ	1.0	08:16																								
ZZZZZZ	1.0	08:26																								
ZZZZZZ	1.0	08:28																								
ZZZZZZ	1.0	08:31																								
ZZZZZZ	5.0	08:34																								
ZZZZZZ	1.0	08:37																								
ZZZZZZ	1.0	08:40																								

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -

ANALYSIS RUN LOG

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Run Number: 061814AMS03

Project Name: Shipyard Creek MPRSA S103

Instrument ID Number: K-ICP-MS-03

Method: MS

Start Date: 06/18/14

End Date: 06/18/14

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 S	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1.0	08:43																													
ZZZZZZ	1.0	08:46																													
CCV3	1.0	08:53		X																											
CCB3	1.0	09:00		X																											
ZZZZZZ	1.0	09:03																													
ZZZZZZ	1.0	09:06																													
ZZZZZZ	1.0	09:09																													
ZZZZZZ	1.0	09:12																													
ZZZZZZ	1.0	09:15																													
ZZZZZZ	1.0	09:18																													
K1405818-MB	1.0	09:21		X																											
LCSW	1.0	09:24		X																											
ZZZZZZ	1.0	09:30																													
K1405818-001	1.0	09:33		X																											
CCV4	1.0	09:36		X																											
CCB4	1.0	09:43		X																											
ZZZZZZ	1.0	09:49																													
K1405818-002	1.0	09:52		X																											
K1405818-002D	1.0	09:55		X																											
K1405818-002S	1.0	09:58		X																											
K1405818-002SD	1.0	10:02		X																											
K1405818-003	1.0	10:05		X																											
K1405818-004	1.0	10:08		X																											
ZZZZZZ	1.0	10:11																													
ZZZZZZ	1.0	10:14																													
CCV5	1.0	10:17		X																											
CCB5	1.0	10:24		X																											

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -

ANALYSIS RUN LOG

Client: Anamar Environmental Consulting

Service Request: K1405818

Project No.: NA

Run Number: 061914EMS03

Project Name: Shipyard Creek MPRSA S103

Instrument ID Number: K-ICP-MS-03

Method: MS

Start Date: 06/19/14

End Date: 06/19/14

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	Z N
Cal. Blk	1.0	14:20				X		X	X	X	X	X					X		X		X		X			
Cal. Stn.	1.0	14:25				X		X	X	X	X	X					X		X		X		X			
ICV1	1.0	14:29				X		X	X	X	X	X					X		X		X		X			
CCV1	1.0	14:33				X		X	X	X	X	X					X		X		X		X			
ICB1	1.0	14:41				X		X	X	X	X	X					X		X		X		X			
CCB1	1.0	14:46				X		X	X	X	X	X					X		X		X		X			
CRA1	1.0	14:51				X		X	X	X	X	X					X		X		X		X			
ZZZZZZ	1.0	14:55																								
ZZZZZZ	1.0	15:00																								
K1405818-MB	1.0	15:06				X		X	X	X	X	X					X		X		X		X			
LCSW	1.0	15:11				X		X	X	X	X	X					X		X		X		X			
K1405818-002	1.0	15:18				X		X	X	X	X	X					X		X		X		X			
K1405818-002D	1.0	15:23				X		X	X	X	X	X					X		X		X		X			
ZZZZZZ	5.0	15:27																								
ZZZZZZ	1.0	15:31																								
K1405818-002S	1.0	15:38				X		X	X	X	X	X					X		X		X		X			
K1405818-002SD	1.0	15:44				X		X	X	X	X	X					X		X		X		X			
CCV2	1.0	15:51				X		X	X	X	X	X					X		X		X		X			
CCB2	1.0	15:58				X		X	X	X	X	X					X		X		X		X			
ZZZZZZ	1.0	16:03																								
K1405818-001	1.0	16:07				X		X	X	X	X	X					X		X		X		X			
K1405818-003	1.0	16:12				X		X	X	X	X	X					X		X		X		X			
K1405818-004	1.0	16:17				X		X	X	X	X	X					X		X		X		X			
ZZZZZZ	1.0	16:21																								
ZZZZZZ	1.0	16:25																								
ZZZZZZ	1.0	16:29																								
ZZZZZZ	1.0	16:33																								
ZZZZZZ	1.0	16:38																								
ZZZZZZ	1.0	16:42																								
ZZZZZZ	1.0	16:46																								
CCV3	1.0	16:50				X		X	X	X	X	X					X		X		X		X			
CCB3	1.0	16:56				X		X	X	X	X	X					X		X		X		X			

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Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract: _____

Lab Code: ALSK Case No.: _____ NRAS No.: _____ SDG NO.: K1405818

ICP-MS Instrument ID: K-ICP-MS-03 Start Date: 06/18/2014 End Date: 06/18/2014

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Ga 71	Q	Element Rh 103	Q	Element In 115	Q	Element Lu 175	Q	Element Th 232	Q		
Cal. Blk	Cal. Blk	0640	100		100		100		100					
Cal. Stn	Cal. Stn	0643	100		100		100		101					
ICV1	ICV1	0646	102		102		103		104					
CCV1	CCV1	0649	103		104		104		103					
ICB1	ICB1	0655	99		100		100		101					
CCB1	CCB1	0700	100		100		100		101					
CRA1	LLICVW	0702	100		101		101		101					
ZZZZZZ	ZZZZZZ	0706												
ZZZZZZ	ZZZZZZ	0708												
ZZZZZZ	ZZZZZZ	0711												
ZZZZZZ	ZZZZZZ	0715												
ZZZZZZ	ZZZZZZ	0717												
ZZZZZZ	ZZZZZZ	0720												
ZZZZZZ	ZZZZZZ	0723												
ZZZZZZ	ZZZZZZ	0726												
ZZZZZZ	ZZZZZZ	0729												
ZZZZZZ	ZZZZZZ	0733												
ZZZZZZ	ZZZZZZ	0736												
ZZZZZZ	ZZZZZZ	0748												
ZZZZZZ	ZZZZZZ	0751												
CCV2	CCV2	0754	96		96		97		98					
CCB2	CCB2	0800	92		92		93		95					
ZZZZZZ	ZZZZZZ	0803												
ZZZZZZ	ZZZZZZ	0808												
ZZZZZZ	ZZZZZZ	0812												
ZZZZZZ	ZZZZZZ	0816												
ZZZZZZ	ZZZZZZ	0826												
ZZZZZZ	ZZZZZZ	0828												
ZZZZZZ	ZZZZZZ	0831												
ZZZZZZ	ZZZZZZ	0834												
ZZZZZZ	ZZZZZZ	0837												
ZZZZZZ	ZZZZZZ	0840												
ZZZZZZ	ZZZZZZ	0843												
ZZZZZZ	ZZZZZZ	0846												
CCV3	CCV3	0853	99		99		99		98					
CCB3	CCB3	0900	99		100		100		99					
ZZZZZZ	ZZZZZZ	0903												
ZZZZZZ	ZZZZZZ	0906												
ZZZZZZ	ZZZZZZ	0909												
ZZZZZZ	ZZZZZZ	0912												
ZZZZZZ	ZZZZZZ	0915												
ZZZZZZ	ZZZZZZ	0918												
K1405818-MB	Method Blank	0921	108		111		111		105					
LCSW	LCSW	0924	108		110		111		108					

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract: _____
 Lab Code: ALSK Case No.: _____ NRAS No.: _____ SDG NO.: K1405818
 ICP-MS Instrument ID: K-ICP-MS-03 Start Date: 06/18/2014 End Date: 06/18/2014

Sample No.	Client ID	Time	Internal Standards %RI For:													
			Element Ga 71	Q	Element Rh 103	Q	Element In 115	Q	Element Lu 175	Q	Element Th 232	Q	Element	Q		
ZZZZZZ	ZZZZZZ	0930														
K1405818-001	SYC14-SW	0933	97		96		101		100							
CCV4	CCV4	0936	110		113		113		107							
CCB4	CCB4	0943	103		105		105		101							
ZZZZZZ	ZZZZZZ	0949														
K1405818-002	SYC14-AC	0952	95		94		99		100							
K1405818-002D	SYC14-AC	0955	96		95		100		100							
K1405818-002S	SYC14-AC	0958	98		97		102		102							
K1405818-002SD	SYC14-AC	1002	94		94		98		98							
K1405818-003	SYC14-TB1	1005	97		96		101		100							
K1405818-004	SYC14-TB2	1008	98		97		102		102							
ZZZZZZ	ZZZZZZ	1011														
ZZZZZZ	ZZZZZZ	1014														
CCV5	CCV5	1017	109		113		113		109							
CCB5	CCB5	1024	102		105		106		103							

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract: _____

Lab Code: ALSK Case No.: _____ NRAS No.: _____ SDG NO.: K1405818

ICP-MS Instrument ID: K-ICP-MS-03 Start Date: 06/19/2014 End Date: 06/19/2014

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Li 6	Q	Element Ga 71	Q	Element In 115	Q	Element Lu 175	Q	Element	Q	Element	Q
Cal. Blk	Cal. Blk	1420	100		100		100		100					
Cal. Stn.	Cal. Stn.	1425	99		97		98		100					
ICV1	ICV1	1429	98		95		96		101					
CCV1	CCV1	1433	97		93		95		99					
ICB1	ICB1	1441	95		92		93		97					
CCB1	CCB1	1446	96		93		94		98					
CRA1	LLICV1	1451	96		91		92		96					
ZZZZZZ	ZZZZZZ	1455												
ZZZZZZ	ZZZZZZ	1500												
K1405818-MB	Method Blank	1506	92		93		95		98					
LCSW	LCSW	1511	92		91		93		98					
K1405818-002	SYC14-AC	1518	85		87		88		95					
K1405818-002D	SYC14-AC	1523	86		89		90		95					
ZZZZZZ	ZZZZZZ	1527												
ZZZZZZ	ZZZZZZ	1531												
K1405818-002S	SYC14-AC	1538	86		87		88		93					
K1405818-002SD	SYC14-AC	1544	87		87		88		93					
CCV2	CCV2	1551	92		88		90		94					
CCB2	CCB2	1558	93		87		89		93					
ZZZZZZ	ZZZZZZ	1603												
K1405818-001	SYC14-SW	1607	88		84		85		91					
K1405818-003	SYC14-TB1	1612	85		84		85		90					
K1405818-004	SYC14-TB2	1617	85		82		83		88					
ZZZZZZ	ZZZZZZ	1621												
ZZZZZZ	ZZZZZZ	1625												
ZZZZZZ	ZZZZZZ	1629												
ZZZZZZ	ZZZZZZ	1633												
ZZZZZZ	ZZZZZZ	1638												
ZZZZZZ	ZZZZZZ	1642												
ZZZZZZ	ZZZZZZ	1646												
CCV3	CCV3	1650	93		83		86		89					
CCB3	CCB3	1656	93		83		84		88					



Organochlorine Pesticides

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818

**Cover Page - Organic Analysis Data Package
 Organochlorine Pesticides**

Sample Name	Lab Code	Date Collected	Date Received
SYC14-SW	K1405818-001	06/04/2014	06/10/2014
SYC14-AC Elutriate	K1405818-002	06/12/2014	06/12/2014
SYC14-TB1 Elutriate	K1405818-003	06/12/2014	06/12/2014
SYC14-TB2 Elutriate	K1405818-004	06/12/2014	06/12/2014
SYC14-AC ElutriateMS	KWG1406763-1	06/12/2014	06/12/2014
SYC14-AC ElutriateDMS	KWG1406763-2	06/12/2014	06/12/2014

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/04/2014
Date Received: 06/10/2014

Organochlorine Pesticides

Sample Name: SYC14-SW
Lab Code: K1405818-001
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aldrin	ND	U	0.010	0.00040	1	06/11/14	06/25/14	KWG1405574	
Chlordane	ND	U	0.20	0.022	1	06/11/14	06/25/14	KWG1405574	
alpha-Chlordane	ND	U	0.010	0.0040	1	06/11/14	06/25/14	KWG1405574	
gamma-Chlordane†	0.00037	JP	0.010	0.00032	1	06/11/14	06/25/14	KWG1405574	
Oxychlordane	ND	U	0.010	0.0010	1	06/11/14	06/25/14	KWG1405574	
cis-Nonachlor	ND	U	0.010	0.00060	1	06/11/14	06/25/14	KWG1405574	
trans-Nonachlor	ND	U	0.010	0.00092	1	06/11/14	06/25/14	KWG1405574	
2,4'-DDD	ND	U	0.010	0.00057	1	06/11/14	06/25/14	KWG1405574	
4,4'-DDD	ND	U	0.010	0.0015	1	06/11/14	06/25/14	KWG1405574	
2,4'-DDE	ND	Ui	0.010	0.00058	1	06/11/14	06/25/14	KWG1405574	
4,4'-DDE	0.00069	JP	0.010	0.00036	1	06/11/14	06/25/14	KWG1405574	
2,4'-DDT	ND	U	0.010	0.00059	1	06/11/14	06/25/14	KWG1405574	
4,4'-DDT	ND	U	0.010	0.00058	1	06/11/14	06/25/14	KWG1405574	
Dieldrin	ND	U	0.010	0.00035	1	06/11/14	06/25/14	KWG1405574	
Endosulfan I	ND	U	0.010	0.00044	1	06/11/14	06/25/14	KWG1405574	
Endosulfan II	ND	U	0.010	0.00040	1	06/11/14	06/25/14	KWG1405574	
Endrin	ND	U	0.010	0.00068	1	06/11/14	06/25/14	KWG1405574	
Endrin Aldehyde	ND	Ui	0.010	0.0011	1	06/11/14	06/25/14	KWG1405574	
Endrin Ketone	ND	U	0.010	0.00066	1	06/11/14	06/25/14	KWG1405574	
Heptachlor	ND	U	0.010	0.00036	1	06/11/14	06/25/14	KWG1405574	
Heptachlor Epoxide	ND	Ui	0.010	0.0037	1	06/11/14	06/25/14	KWG1405574	
alpha-BHC	ND	U	0.010	0.00033	1	06/11/14	06/25/14	KWG1405574	
beta-BHC	ND	Ui	0.010	0.0011	1	06/11/14	06/25/14	KWG1405574	
delta-BHC	ND	U	0.010	0.00057	1	06/11/14	06/25/14	KWG1405574	
gamma-BHC (Lindane)	ND	U	0.010	0.00044	1	06/11/14	06/25/14	KWG1405574	
Methoxychlor	ND	Ui	0.010	0.0020	1	06/11/14	06/25/14	KWG1405574	
Mirex	ND	U	0.010	0.00081	1	06/11/14	06/25/14	KWG1405574	
Toxaphene	ND	Ui	0.50	0.076	1	06/11/14	06/25/14	KWG1405574	

Comments: _____

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/04/2014
Date Received: 06/10/2014

Organochlorine Pesticides

Sample Name: SYC14-SW
Lab Code: K1405818-001

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	75	20-106	06/25/14	Acceptable
Decachlorobiphenyl	79	19-127	06/25/14	Acceptable

† Analyte Comments

gamma-Chlordane For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments: _____

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/12/2014
Date Received: 06/12/2014

Organochlorine Pesticides

Sample Name: SYC14-AC Elutriate
Lab Code: K1405818-002
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aldrin	ND	U	0.011	0.00042	1	06/16/14	06/26/14	KWG1406763	
Chlordane	ND	U	0.21	0.023	1	06/16/14	06/26/14	KWG1406763	
alpha-Chlordane	ND	U	0.011	0.0042	1	06/16/14	06/26/14	KWG1406763	
gamma-Chlordane†	ND	U	0.011	0.00033	1	06/16/14	06/26/14	KWG1406763	
Oxychlordane	ND	U	0.011	0.0011	1	06/16/14	06/26/14	KWG1406763	
cis-Nonachlor	ND	U	0.011	0.00062	1	06/16/14	06/26/14	KWG1406763	
trans-Nonachlor	ND	U	0.011	0.00095	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDD	ND	U	0.011	0.00059	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDD	ND	U	0.011	0.0016	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDE	ND	U	0.011	0.00052	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDE	0.0017	J	0.011	0.00038	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDT	ND	Ui	0.011	0.0011	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDT	ND	U	0.011	0.00060	1	06/16/14	06/26/14	KWG1406763	
Dieldrin	ND	U	0.011	0.00037	1	06/16/14	06/26/14	KWG1406763	
Endosulfan I	ND	U	0.011	0.00046	1	06/16/14	06/26/14	KWG1406763	
Endosulfan II	ND	U	0.011	0.00042	1	06/16/14	06/26/14	KWG1406763	
Endrin	ND	U	0.011	0.00071	1	06/16/14	06/26/14	KWG1406763	
Endrin Aldehyde	ND	U	0.011	0.00048	1	06/16/14	06/26/14	KWG1406763	
Endrin Ketone	ND	U	0.011	0.00069	1	06/16/14	06/26/14	KWG1406763	
Heptachlor	ND	Ui	0.011	0.00083	1	06/16/14	06/26/14	KWG1406763	
Heptachlor Epoxide	ND	U	0.011	0.00033	1	06/16/14	06/26/14	KWG1406763	
alpha-BHC	ND	U	0.011	0.00035	1	06/16/14	06/26/14	KWG1406763	
beta-BHC	ND	U	0.011	0.00086	1	06/16/14	06/26/14	KWG1406763	
delta-BHC	ND	U	0.011	0.00059	1	06/16/14	06/26/14	KWG1406763	
gamma-BHC (Lindane)	ND	U	0.011	0.00046	1	06/16/14	06/26/14	KWG1406763	
Methoxychlor	ND	U	0.011	0.00096	1	06/16/14	06/26/14	KWG1406763	
Mirex	ND	U	0.011	0.00084	1	06/16/14	06/26/14	KWG1406763	
Toxaphene	ND	Ui	0.52	0.079	1	06/16/14	06/26/14	KWG1406763	

Comments: _____

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/12/2014
Date Received: 06/12/2014

Organochlorine Pesticides

Sample Name: SYC14-AC Elutriate
Lab Code: K1405818-002

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	67	20-106	06/26/14	Acceptable
Decachlorobiphenyl	68	19-127	06/26/14	Acceptable

† Analyte Comments

gamma-Chlordane For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments: _____

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/12/2014
Date Received: 06/12/2014

Organochlorine Pesticides

Sample Name: SYC14-TB1 Elutriate
Lab Code: K1405818-003
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aldrin	ND	U	0.011	0.00042	1	06/16/14	06/26/14	KWG1406763	
Chlordane	ND	U	0.21	0.023	1	06/16/14	06/26/14	KWG1406763	
alpha-Chlordane	ND	U	0.011	0.0042	1	06/16/14	06/26/14	KWG1406763	
gamma-Chlordane†	ND	U	0.011	0.00033	1	06/16/14	06/26/14	KWG1406763	
Oxychlordane	ND	U	0.011	0.0011	1	06/16/14	06/26/14	KWG1406763	
cis-Nonachlor	ND	U	0.011	0.00062	1	06/16/14	06/26/14	KWG1406763	
trans-Nonachlor	ND	U	0.011	0.00095	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDD	ND	U	0.011	0.00059	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDD	ND	U	0.011	0.0016	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDE	ND	U	0.011	0.00052	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDE	ND	U	0.011	0.00038	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDT	ND	U	0.011	0.00061	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDT	ND	U	0.011	0.00060	1	06/16/14	06/26/14	KWG1406763	
Dieldrin	ND	U	0.011	0.00037	1	06/16/14	06/26/14	KWG1406763	
Endosulfan I	ND	U	0.011	0.00046	1	06/16/14	06/26/14	KWG1406763	
Endosulfan II	ND	U	0.011	0.00042	1	06/16/14	06/26/14	KWG1406763	
Endrin	ND	U	0.011	0.00071	1	06/16/14	06/26/14	KWG1406763	
Endrin Aldehyde	ND	U	0.011	0.00048	1	06/16/14	06/26/14	KWG1406763	
Endrin Ketone	ND	U	0.011	0.00069	1	06/16/14	06/26/14	KWG1406763	
Heptachlor	ND	Ui	0.011	0.00049	1	06/16/14	06/26/14	KWG1406763	
Heptachlor Epoxide	ND	U	0.011	0.00033	1	06/16/14	06/26/14	KWG1406763	
alpha-BHC	ND	U	0.011	0.00035	1	06/16/14	06/26/14	KWG1406763	
beta-BHC	ND	U	0.011	0.00086	1	06/16/14	06/26/14	KWG1406763	
delta-BHC	ND	U	0.011	0.00059	1	06/16/14	06/26/14	KWG1406763	
gamma-BHC (Lindane)	ND	U	0.011	0.00046	1	06/16/14	06/26/14	KWG1406763	
Methoxychlor	ND	U	0.011	0.00096	1	06/16/14	06/26/14	KWG1406763	
Mirex	ND	U	0.011	0.00084	1	06/16/14	06/26/14	KWG1406763	
Toxaphene	ND	Ui	0.52	0.082	1	06/16/14	06/26/14	KWG1406763	

Comments: _____

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/12/2014
Date Received: 06/12/2014

Organochlorine Pesticides

Sample Name: SYC14-TB1 Elutriate
Lab Code: K1405818-003

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	58	20-106	06/26/14	Acceptable
Decachlorobiphenyl	63	19-127	06/26/14	Acceptable

† Analyte Comments

gamma-Chlordane For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments: _____

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/12/2014
Date Received: 06/12/2014

Organochlorine Pesticides

Sample Name: SYC14-TB2 Elutriate
Lab Code: K1405818-004
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aldrin	ND	U	0.011	0.00041	1	06/16/14	06/26/14	KWG1406763	
Chlordane	ND	U	0.21	0.023	1	06/16/14	06/26/14	KWG1406763	
alpha-Chlordane	ND	U	0.011	0.0041	1	06/16/14	06/26/14	KWG1406763	
gamma-Chlordane†	ND	U	0.011	0.00033	1	06/16/14	06/26/14	KWG1406763	
Oxychlordane	ND	U	0.011	0.0011	1	06/16/14	06/26/14	KWG1406763	
cis-Nonachlor	ND	U	0.011	0.00062	1	06/16/14	06/26/14	KWG1406763	
trans-Nonachlor	ND	U	0.011	0.00094	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDD	ND	U	0.011	0.00059	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDD	ND	U	0.011	0.0016	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDE	ND	U	0.011	0.00052	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDE	ND	U	0.011	0.00037	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDT	ND	U	0.011	0.00061	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDT	ND	U	0.011	0.00060	1	06/16/14	06/26/14	KWG1406763	
Dieldrin	ND	U	0.011	0.00036	1	06/16/14	06/26/14	KWG1406763	
Endosulfan I	ND	U	0.011	0.00045	1	06/16/14	06/26/14	KWG1406763	
Endosulfan II	ND	Ui	0.011	0.00054	1	06/16/14	06/26/14	KWG1406763	
Endrin	ND	U	0.011	0.00070	1	06/16/14	06/26/14	KWG1406763	
Endrin Aldehyde	0.00048	JP	0.011	0.00047	1	06/16/14	06/26/14	KWG1406763	
Endrin Ketone	ND	U	0.011	0.00068	1	06/16/14	06/26/14	KWG1406763	
Heptachlor	ND	Ui	0.011	0.00083	1	06/16/14	06/26/14	KWG1406763	
Heptachlor Epoxide	ND	U	0.011	0.00033	1	06/16/14	06/26/14	KWG1406763	
alpha-BHC	ND	U	0.011	0.00034	1	06/16/14	06/26/14	KWG1406763	
beta-BHC	ND	U	0.011	0.00085	1	06/16/14	06/26/14	KWG1406763	
delta-BHC	ND	U	0.011	0.00059	1	06/16/14	06/26/14	KWG1406763	
gamma-BHC (Lindane)	ND	U	0.011	0.00045	1	06/16/14	06/26/14	KWG1406763	
Methoxychlor	ND	U	0.011	0.00095	1	06/16/14	06/26/14	KWG1406763	
Mirex	ND	U	0.011	0.00083	1	06/16/14	06/26/14	KWG1406763	
Toxaphene	ND	U	0.52	0.053	1	06/16/14	06/26/14	KWG1406763	

Comments: _____

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/12/2014
Date Received: 06/12/2014

Organochlorine Pesticides

Sample Name: SYC14-TB2 Elutriate **Units:** ug/L
Lab Code: K1405818-004 **Basis:** NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	56	20-106	06/26/14	Acceptable
Decachlorobiphenyl	62	19-127	06/26/14	Acceptable

† Analyte Comments

gamma-Chlordane For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments: _____

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: NA
Date Received: NA

Organochlorine Pesticides

Sample Name: Method Blank
Lab Code: KWG1405574-7
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aldrin	ND	U	0.010	0.00040	1	06/11/14	06/26/14	KWG1405574	
Chlordane	ND	U	0.20	0.022	1	06/11/14	06/26/14	KWG1405574	
alpha-Chlordane	ND	U	0.010	0.0040	1	06/11/14	06/26/14	KWG1405574	
gamma-Chlordane†	ND	U	0.010	0.00032	1	06/11/14	06/26/14	KWG1405574	
Oxychlordane	ND	U	0.010	0.0010	1	06/11/14	06/26/14	KWG1405574	
cis-Nonachlor	ND	U	0.010	0.00060	1	06/11/14	06/26/14	KWG1405574	
trans-Nonachlor	ND	U	0.010	0.00092	1	06/11/14	06/26/14	KWG1405574	
2,4'-DDD	ND	U	0.010	0.00057	1	06/11/14	06/26/14	KWG1405574	
4,4'-DDD	ND	U	0.010	0.0015	1	06/11/14	06/26/14	KWG1405574	
2,4'-DDE	ND	U	0.010	0.00050	1	06/11/14	06/26/14	KWG1405574	
4,4'-DDE	ND	U	0.010	0.00036	1	06/11/14	06/26/14	KWG1405574	
2,4'-DDT	ND	U	0.010	0.00059	1	06/11/14	06/26/14	KWG1405574	
4,4'-DDT	ND	U	0.010	0.00058	1	06/11/14	06/26/14	KWG1405574	
Dieldrin	ND	U	0.010	0.00035	1	06/11/14	06/26/14	KWG1405574	
Endosulfan I	ND	U	0.010	0.00044	1	06/11/14	06/26/14	KWG1405574	
Endosulfan II	ND	U	0.010	0.00040	1	06/11/14	06/26/14	KWG1405574	
Endrin	ND	U	0.010	0.00068	1	06/11/14	06/26/14	KWG1405574	
Endrin Aldehyde	ND	U	0.010	0.00046	1	06/11/14	06/26/14	KWG1405574	
Endrin Ketone	ND	U	0.010	0.00066	1	06/11/14	06/26/14	KWG1405574	
Heptachlor	ND	U	0.010	0.00036	1	06/11/14	06/26/14	KWG1405574	
Heptachlor Epoxide	ND	U	0.010	0.00032	1	06/11/14	06/26/14	KWG1405574	
alpha-BHC	ND	U	0.010	0.00033	1	06/11/14	06/26/14	KWG1405574	
beta-BHC	ND	U	0.010	0.00083	1	06/11/14	06/26/14	KWG1405574	
delta-BHC	ND	U	0.010	0.00057	1	06/11/14	06/26/14	KWG1405574	
gamma-BHC (Lindane)	ND	U	0.010	0.00044	1	06/11/14	06/26/14	KWG1405574	
Methoxychlor	ND	U	0.010	0.00093	1	06/11/14	06/26/14	KWG1405574	
Mirex	ND	U	0.010	0.00081	1	06/11/14	06/26/14	KWG1405574	
Toxaphene	ND	U	0.50	0.051	1	06/11/14	06/26/14	KWG1405574	

Comments: _____

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: NA
Date Received: NA

Organochlorine Pesticides

Sample Name: Method Blank
Lab Code: KWG1405574-7

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	81	20-106	06/26/14	Acceptable
Decachlorobiphenyl	79	19-127	06/26/14	Acceptable

† Analyte Comments

gamma-Chlordane For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments: _____

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: NA
Date Received: NA

Organochlorine Pesticides

Sample Name: Method Blank
Lab Code: KWG1406763-10
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aldrin	ND	U	0.010	0.00040	1	06/16/14	06/26/14	KWG1406763	
Chlordane	ND	U	0.20	0.022	1	06/16/14	06/26/14	KWG1406763	
alpha-Chlordane	ND	U	0.010	0.0040	1	06/16/14	06/26/14	KWG1406763	
gamma-Chlordane†	ND	U	0.010	0.00032	1	06/16/14	06/26/14	KWG1406763	
Oxychlordane	ND	U	0.010	0.0010	1	06/16/14	06/26/14	KWG1406763	
cis-Nonachlor	ND	U	0.010	0.00060	1	06/16/14	06/26/14	KWG1406763	
trans-Nonachlor	ND	U	0.010	0.00092	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDD	ND	U	0.010	0.00057	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDD	ND	U	0.010	0.0015	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDE	ND	U	0.010	0.00050	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDE	ND	U	0.010	0.00036	1	06/16/14	06/26/14	KWG1406763	
2,4'-DDT	ND	U	0.010	0.00059	1	06/16/14	06/26/14	KWG1406763	
4,4'-DDT	ND	U	0.010	0.00058	1	06/16/14	06/26/14	KWG1406763	
Dieldrin	ND	U	0.010	0.00035	1	06/16/14	06/26/14	KWG1406763	
Endosulfan I	ND	U	0.010	0.00044	1	06/16/14	06/26/14	KWG1406763	
Endosulfan II	0.00048	JP	0.010	0.00040	1	06/16/14	06/26/14	KWG1406763	
Endrin	ND	U	0.010	0.00068	1	06/16/14	06/26/14	KWG1406763	
Endrin Aldehyde	ND	U	0.010	0.00046	1	06/16/14	06/26/14	KWG1406763	
Endrin Ketone	ND	U	0.010	0.00066	1	06/16/14	06/26/14	KWG1406763	
Heptachlor	ND	U	0.010	0.00036	1	06/16/14	06/26/14	KWG1406763	
Heptachlor Epoxide	ND	U	0.010	0.00032	1	06/16/14	06/26/14	KWG1406763	
alpha-BHC	ND	U	0.010	0.00033	1	06/16/14	06/26/14	KWG1406763	
beta-BHC	ND	U	0.010	0.00083	1	06/16/14	06/26/14	KWG1406763	
delta-BHC	ND	U	0.010	0.00057	1	06/16/14	06/26/14	KWG1406763	
gamma-BHC (Lindane)	ND	U	0.010	0.00044	1	06/16/14	06/26/14	KWG1406763	
Methoxychlor	ND	U	0.010	0.00093	1	06/16/14	06/26/14	KWG1406763	
Mirex	ND	U	0.010	0.00081	1	06/16/14	06/26/14	KWG1406763	
Toxaphene	ND	U	0.50	0.051	1	06/16/14	06/26/14	KWG1406763	

Comments: _____

Analytical Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: NA
Date Received: NA

Organochlorine Pesticides

Sample Name: Method Blank
Lab Code: KWG1406763-10

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	56	20-106	06/26/14	Acceptable
Decachlorobiphenyl	61	19-127	06/26/14	Acceptable

† Analyte Comments

gamma-Chlordane For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments: _____

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818

**Surrogate Recovery Summary
 Organochlorine Pesticides**

Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: Percent
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>
SYC14-SW	K1405818-001	75	79
SYC14-AC Elutriate	K1405818-002	67	68
SYC14-TB1 Elutriate	K1405818-003	58	63
SYC14-TB2 Elutriate	K1405818-004	56	62
Method Blank	KWG1405574-7	81	79
Method Blank	KWG1406763-10	56	61
SYC14-AC ElutriateMS	KWG1406763-1	60	63
SYC14-AC ElutriateDMS	KWG1406763-2	60	63
Lab Control Sample	KWG1405574-1	73	72
Duplicate Lab Control Sample	KWG1405574-2	71	74
Lab Control Sample	KWG1406763-3	54	64

Surrogate Recovery Control Limits (%)

Sur1 = Tetrachloro-m-xylene	20-106
Sur2 = Decachlorobiphenyl	19-127

Results flagged with an asterisk (*) indicate values outside control criteria.
 Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014
Time Analyzed: 14:30

**Internal Standard Area and RT Summary
 Organochlorine Pesticides**

File ID: J:\GC23\DATA\062514\0625F002.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-3
Analysis Lot: KWG1406791
Column : DB XLB

	1-Bromo-2-nitrobenzene	
	<u>Area</u>	<u>RT</u>
ICAL Average ==>	1,827,328	6.16
Upper Limit ==>	3,654,656	6.66
Lower Limit ==>	913,664	5.66

Associated Analyses

Continuing Calibration Verification	CCV KWG1406791-3	2,237,515	6.05
SYC14-SW	K1405818-001	1,918,800	6.06
Lab Control Sample	KWG1405574-1	2,004,022	6.06
Duplicate Lab Control Sample	KWG1405574-2	2,036,487	6.06
Lab Control Sample	KWG1405574-1	2,020,577	6.06
Duplicate Lab Control Sample	KWG1405574-2	1,984,664	6.06
Method Blank	KWG1405574-7	1,982,255	6.05

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014
Time Analyzed: 14:30

**Internal Standard Area and RT Summary
 Organochlorine Pesticides**

File ID: J:\GC23\DATA\062514\0625F002.D\0625F002C.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-3
Analysis Lot: KWG1406791
Column : DB-35MS

	1-Bromo-2-nitrobenzene	
	<u>Area</u>	<u>RT</u>
ICAL Average ==>	703,371	5.56
Upper Limit ==>	1,406,741	6.06
Lower Limit ==>	351,685	5.06

Associated Analyses

		<u>Area</u>	<u>RT</u>
Continuing Calibration Verification	CCV KWG1406791-3	816,215	5.47
SYC14-SW	K1405818-001	771,207	5.47
Lab Control Sample	KWG1405574-1	788,161	5.48
Duplicate Lab Control Sample	KWG1405574-2	793,603	5.48
Lab Control Sample	KWG1405574-1	772,421	5.48
Duplicate Lab Control Sample	KWG1405574-2	756,376	5.48
Method Blank	KWG1405574-7	662,282	5.47

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014
Time Analyzed: 14:59

Internal Standard Area and RT Summary
Organochlorine Pesticides

File ID: J:\GC23\DATA\062514\0625F003.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-3
Analysis Lot: KWG1406791
Column : DB XLB

1-Bromo-2-nitrobenzene {2}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	1,718,923	5.92
Upper Limit ==>	3,437,846	6.42
Lower Limit ==>	859,462	5.42

Associated Analyses

Continuing Calibration Verification	CCV	KWG1406791-3	2,159,555 6.05
SYC14-SW		K1405818-001	1,918,800 6.06
Lab Control Sample		KWG1405574-1	2,066,006 6.06
Duplicate Lab Control Sample		KWG1405574-2	2,045,426 6.06
Method Blank		KWG1405574-7	1,982,255 6.05

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014
Time Analyzed: 14:59

**Internal Standard Area and RT Summary
 Organochlorine Pesticides**

File ID: J:\GC23\DATA\062514\0625F003.D\0625F003C.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-3
Analysis Lot: KWG1406791
Column : DB-35MS

1-Bromo-2-nitrobenzene {2}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	635,268	5.39
Upper Limit ==>	1,270,536	5.89
Lower Limit ==>	317,634	4.89

Associated Analyses

Continuing Calibration Verification	CCV KWG1406791-3	797,472	5.47
SYC14-SW	K1405818-001	771,207	5.47
Lab Control Sample	KWG1405574-1	788,747	5.47
Duplicate Lab Control Sample	KWG1405574-2	770,019	5.47
Method Blank	KWG1405574-7	662,282	5.47

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014
Time Analyzed: 15:29

Internal Standard Area and RT Summary
Organochlorine Pesticides

File ID: J:\GC23\DATA\062514\0625F004.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-3
Analysis Lot: KWG1406791
Column : DB XLB

1-Bromo-2-nitrobenzene {3}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	1,745,160	6.00
Upper Limit ==>	3,490,320	6.50
Lower Limit ==>	872,580	5.50

Associated Analyses

Continuing Calibration Verification	CCV	KWG1406791-3	2,164,916 6.06
SYC14-SW		K1405818-001	1,918,800 6.06
Lab Control Sample		KWG1405574-1	2,066,006 6.06
Duplicate Lab Control Sample		KWG1405574-2	2,045,426 6.06
Method Blank		KWG1405574-7	1,982,255 6.05

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014
Time Analyzed: 15:29

Internal Standard Area and RT Summary
Organochlorine Pesticides

File ID: J:\GC23\DATA\062514\0625F004.D\0625F004C.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-3
Analysis Lot: KWG1406791
Column : DB-35MS

1-Bromo-2-nitrobenzene {3}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	643,983	5.44
Upper Limit ==>	1,287,966	5.94
Lower Limit ==>	321,992	4.94

Associated Analyses

Continuing Calibration Verification	CCV	KWG1406791-3	799,255	5.48
SYC14-SW		K1405818-001	771,207	5.47
Lab Control Sample		KWG1405574-1	788,747	5.47
Duplicate Lab Control Sample		KWG1405574-2	770,019	5.47
Method Blank		KWG1405574-7	662,282	5.47

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014
Time Analyzed: 15:59

**Internal Standard Area and RT Summary
 Organochlorine Pesticides**

File ID: J:\GC23\DATA\062514\0625F005.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-3
Analysis Lot: KWG1406791
Column : DB XLB

1-Bromo-2-nitrobenzene {4}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	1,647,413	5.92
Upper Limit ==>	3,294,826	6.42
Lower Limit ==>	823,707	5.42

Associated Analyses

Continuing Calibration Verification	CCV	KWG1406791-3	2,132,090 6.06
SYC14-SW		K1405818-001	1,918,800 6.06
Lab Control Sample		KWG1405574-1	2,004,022 6.06
Duplicate Lab Control Sample		KWG1405574-2	2,036,487 6.06
Method Blank		KWG1405574-7	1,982,255 6.05

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014
Time Analyzed: 15:59

Internal Standard Area and RT Summary
Organochlorine Pesticides

File ID: J:\GC23\DATA\062514\0625F005.D\0625F005C.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-3
Analysis Lot: KWG1406791
Column : DB-35MS

1-Bromo-2-nitrobenzene {4}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	612,378	5.39
Upper Limit ==>	1,224,756	5.89
Lower Limit ==>	306,189	4.89

Associated Analyses

Continuing Calibration Verification	CCV	KWG1406791-3	792,882	5.48
SYC14-SW		K1405818-001	771,207	5.47
Lab Control Sample		KWG1405574-1	788,161	5.48
Duplicate Lab Control Sample		KWG1405574-2	793,603	5.48
Method Blank		KWG1405574-7	662,282	5.47

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014
Time Analyzed: 01:23

Internal Standard Area and RT Summary
Organochlorine Pesticides

File ID: J:\GC23\DATA\062514\0625F024.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-6
Analysis Lot: KWG1406791
Column : DB XLB

	1-Bromo-2-nitrobenzene	
	<u>Area</u>	<u>RT</u>
ICAL Average ==>	1,827,328	6.16
Upper Limit ==>	3,654,656	6.66
Lower Limit ==>	913,664	5.66

Associated Analyses

Continuing Calibration VerificationCCV	KWG1406791-6	1,887,404	6.07
SYC14-AC Elutriate	K1405818-002	2,083,551	6.05
SYC14-AC ElutriateMS	KWG1406763-1	2,157,118	6.06
SYC14-AC ElutriateDMS	KWG1406763-2	2,138,406	6.06
SYC14-AC ElutriateMS	KWG1406763-1	2,163,681	6.05
SYC14-AC ElutriateDMS	KWG1406763-2	2,267,331	6.05
SYC14-TB1 Elutriate	K1405818-003	2,134,016	6.05
SYC14-TB2 Elutriate	K1405818-004	2,190,558	6.06
Lab Control Sample	KWG1406763-3	2,127,141	6.06
Lab Control Sample	KWG1406763-3	2,148,120	6.06
Method Blank	KWG1406763-10	2,118,258	6.06

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014
Time Analyzed: 01:23

Internal Standard Area and RT Summary
Organochlorine Pesticides

File ID: J:\GC23\DATA\062514\0625F024.D\0625F024C.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-6
Analysis Lot: KWG1406791
Column : DB-35MS

	1-Bromo-2-nitrobenzene	
	<u>Area</u>	<u>RT</u>
ICAL Average ==>	703,371	5.56
Upper Limit ==>	1,406,741	6.06
Lower Limit ==>	351,685	5.06

Associated Analyses

Continuing Calibration VerificationCCV	KWG1406791-6	625,469	5.49
SYC14-AC Elutriate	K1405818-002	794,981	5.47
SYC14-AC ElutriateMS	KWG1406763-1	835,107	5.47
SYC14-AC ElutriateDMS	KWG1406763-2	841,983	5.47
SYC14-AC ElutriateMS	KWG1406763-1	846,267	5.47
SYC14-AC ElutriateDMS	KWG1406763-2	889,497	5.47
SYC14-TB1 Elutriate	K1405818-003	834,898	5.46
SYC14-TB2 Elutriate	K1405818-004	870,517	5.47
Lab Control Sample	KWG1406763-3	850,431	5.48
Lab Control Sample	KWG1406763-3	878,067	5.48
Method Blank	KWG1406763-10	840,760	5.48

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014
Time Analyzed: 01:53

**Internal Standard Area and RT Summary
 Organochlorine Pesticides**

File ID: J:\GC23\DATA\062514\0625F025.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-6
Analysis Lot: KWG1406791
Column : DB XLB

1-Bromo-2-nitrobenzene {2}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	1,718,923	5.92
Upper Limit ==>	3,437,846	6.42
Lower Limit ==>	859,462	5.42

Associated Analyses

Continuing Calibration Verification	CCV	KWG1406791-6	2,273,480 6.06
SYC14-AC Elutriate		K1405818-002	2,083,551 6.05
SYC14-AC Elutriate	MS	KWG1406763-1	2,231,470 6.05
SYC14-AC Elutriate	DMS	KWG1406763-2	2,161,395 6.06
SYC14-TB1 Elutriate		K1405818-003	2,134,016 6.05
SYC14-TB2 Elutriate		K1405818-004	2,190,558 6.06
Lab Control Sample		KWG1406763-3	2,164,011 6.06
Method Blank		KWG1406763-10	2,118,258 6.06

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014
Time Analyzed: 01:53

Internal Standard Area and RT Summary
Organochlorine Pesticides

File ID: J:\GC23\DATA\062514\0625F025.D\0625F025C.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-6
Analysis Lot: KWG1406791
Column : DB-35MS

1-Bromo-2-nitrobenzene {2}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	635,268	5.39
Upper Limit ==>	1,270,536	5.89
Lower Limit ==>	317,634	4.89

Associated Analyses

Continuing Calibration Verification	CCV	KWG1406791-6	766,936	5.47
SYC14-AC Elutriate		K1405818-002	794,981	5.47
SYC14-AC ElutriateMS		KWG1406763-1	885,626	5.47
SYC14-AC ElutriateDMS		KWG1406763-2	858,369	5.48
SYC14-TB1 Elutriate		K1405818-003	834,898	5.46
SYC14-TB2 Elutriate		K1405818-004	870,517	5.47
Lab Control Sample		KWG1406763-3	879,293	5.48
Method Blank		KWG1406763-10	840,760	5.48

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014
Time Analyzed: 02:23

Internal Standard Area and RT Summary
Organochlorine Pesticides

File ID: J:\GC23\DATA\062514\0625F026.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-6
Analysis Lot: KWG1406791
Column : DB XLB

1-Bromo-2-nitrobenzene {3}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	1,745,160	6.00
Upper Limit ==>	3,490,320	6.50
Lower Limit ==>	872,580	5.50

Associated Analyses

Continuing Calibration Verification	CCV	KWG1406791-6	2,296,753 6.06
SYC14-AC Elutriate		K1405818-002	2,083,551 6.05
SYC14-AC Elutriate	MS	KWG1406763-1	2,231,470 6.05
SYC14-AC Elutriate	DMS	KWG1406763-2	2,161,395 6.06
SYC14-TB1 Elutriate		K1405818-003	2,134,016 6.05
SYC14-TB2 Elutriate		K1405818-004	2,190,558 6.06
Lab Control Sample		KWG1406763-3	2,164,011 6.06
Method Blank		KWG1406763-10	2,118,258 6.06

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014
Time Analyzed: 02:23

Internal Standard Area and RT Summary
Organochlorine Pesticides

File ID: J:\GC23\DATA\062514\0625F026.D\0625F026C.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-6
Analysis Lot: KWG1406791
Column : DB-35MS

1-Bromo-2-nitrobenzene {3}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	643,983	5.44
Upper Limit ==>	1,287,966	5.94
Lower Limit ==>	321,992	4.94

Associated Analyses

Continuing Calibration Verification	CCV	KWG1406791-6	774,878	5.48
SYC14-AC Elutriate		K1405818-002	794,981	5.47
SYC14-AC Elutriate	MS	KWG1406763-1	885,626	5.47
SYC14-AC Elutriate	DMS	KWG1406763-2	858,369	5.48
SYC14-TB1 Elutriate		K1405818-003	834,898	5.46
SYC14-TB2 Elutriate		K1405818-004	870,517	5.47
Lab Control Sample		KWG1406763-3	879,293	5.48
Method Blank		KWG1406763-10	840,760	5.48

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014
Time Analyzed: 02:52

**Internal Standard Area and RT Summary
 Organochlorine Pesticides**

File ID: J:\GC23\DATA\062514\0625F027.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-6
Analysis Lot: KWG1406791
Column : DB XLB

1-Bromo-2-nitrobenzene {4}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	1,647,413	5.92
Upper Limit ==>	3,294,826	6.42
Lower Limit ==>	823,707	5.42

Associated Analyses

Continuing Calibration Verification	CCV	KWG1406791-6	2,294,413 6.06
SYC14-AC Elutriate		K1405818-002	2,083,551 6.05
SYC14-AC Elutriate	MS	KWG1406763-1	2,157,118 6.06
SYC14-AC Elutriate	DMS	KWG1406763-2	2,138,406 6.06
SYC14-TB1 Elutriate		K1405818-003	2,134,016 6.05
SYC14-TB2 Elutriate		K1405818-004	2,190,558 6.06
Lab Control Sample		KWG1406763-3	2,127,141 6.06
Method Blank		KWG1406763-10	2,118,258 6.06

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014
Time Analyzed: 02:52

Internal Standard Area and RT Summary
Organochlorine Pesticides

File ID: J:\GC23\DATA\062514\0625F027.D\0625F027C.D
Instrument ID: GC23
Analysis Method: 8081B

Lab Code: KWG1406791-6
Analysis Lot: KWG1406791
Column : DB-35MS

1-Bromo-2-nitrobenzene {4}

	<u>Area</u>	<u>RT</u>
ICAL Average ==>	612,378	5.39
Upper Limit ==>	1,224,756	5.89
Lower Limit ==>	306,189	4.89

Associated Analyses

Continuing Calibration Verification	CCV	KWG1406791-6	767,280 5.48
SYC14-AC Elutriate		K1405818-002	794,981 5.47
SYC14-AC Elutriate	MS	KWG1406763-1	835,107 5.47
SYC14-AC Elutriate	DMS	KWG1406763-2	841,983 5.47
SYC14-TB1 Elutriate		K1405818-003	834,898 5.46
SYC14-TB2 Elutriate		K1405818-004	870,517 5.47
Lab Control Sample		KWG1406763-3	850,431 5.48
Method Blank		KWG1406763-10	840,760 5.48

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/16/2014
Date Analyzed: 06/26/2014

Matrix Spike/Duplicate Matrix Spike Summary
Organochlorine Pesticides

Sample Name: SYC14-AC Elutriate
Lab Code: K1405818-002
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1406763

Analyte Name	Sample Result	SYC14-AC ElutriateMS KWG1406763-1 Matrix Spike			SYC14-AC ElutriateDMS KWG1406763-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Aldrin	ND	0.126	0.202	63	0.119	0.202	59	18-111	6	30
Chlordane	ND	0.825	1.01	82	0.770	1.01	76	45-148	7	30
alpha-Chlordane	ND	0.132	0.202	65	0.122	0.202	61	34-120	7	30
gamma-Chlordane	ND	0.134	0.202	66	0.125	0.202	62	35-119	7	30
Oxychlordane	ND	0.131	0.202	65	0.120	0.202	60	40-126	8	30
cis-Nonachlor	ND	0.136	0.202	67	0.125	0.202	62	42-125	8	30
trans-Nonachlor	ND	0.133	0.202	66	0.121	0.202	60	47-123	9	30
2,4'-DDD	ND	0.129	0.202	64	0.125	0.202	62	51-112	4	30
4,4'-DDD	ND	0.148	0.202	73	0.139	0.202	69	29-125	6	30
2,4'-DDE	ND	0.137	0.202	68	0.134	0.202	66	29-126	3	30
4,4'-DDE	0.0017	0.137	0.202	67	0.128	0.202	62	24-129	7	30
2,4'-DDT	ND	0.140	0.202	69	0.135	0.202	67	51-117	3	30
4,4'-DDT	ND	0.152	0.202	75	0.143	0.202	71	28-139	6	30
Dieldrin	ND	0.138	0.202	69	0.127	0.202	63	32-121	8	30
Endosulfan I	ND	0.103	0.202	51	0.0963	0.202	48	17-118	7	30
Endosulfan II	ND	0.120	0.202	59	0.111	0.202	55	19-122	8	30
Endrin	ND	0.147	0.202	73	0.136	0.202	67	34-133	8	30
Endrin Aldehyde	ND	0.138	0.202	68	0.128	0.202	63	10-108	7	30
Endrin Ketone	ND	0.142	0.202	70	0.132	0.202	66	34-113	7	30
Heptachlor	ND	0.141	0.202	70	0.132	0.202	65	23-124	7	30
Heptachlor Epoxide	ND	0.134	0.202	66	0.122	0.202	60	28-122	9	30
alpha-BHC	ND	0.140	0.202	69	0.132	0.202	65	31-123	6	30
beta-BHC	ND	0.134	0.202	66	0.126	0.202	62	31-118	6	30
delta-BHC	ND	0.148	0.202	73	0.138	0.202	69	40-129	7	30
gamma-BHC (Lindane)	ND	0.138	0.202	69	0.131	0.202	65	31-123	5	30
Methoxychlor	ND	0.162	0.202	80	0.150	0.202	74	30-137	7	30
Mirex	ND	0.132	0.202	66	0.123	0.202	61	43-126	7	30
Toxaphene	ND	0.858	1.01	85	0.771	1.01	76	28-135	11	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/11/2014
Date Analyzed: 06/25/2014

Lab Control Spike/Duplicate Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1405574

Analyte Name	Lab Control Sample KWG1405574-1 Lab Control Spike			Duplicate Lab Control Sample KWG1405574-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Aldrin	0.136	0.200	68	0.132	0.200	66	10-102	3	30
Chlordane	0.943	1.00	94	0.907	1.00	91	45-148	4	30
alpha-Chlordane	0.151	0.200	76	0.148	0.200	74	45-115	2	30
gamma-Chlordane	0.152	0.200	76	0.150	0.200	75	47-113	1	30
Oxychlordane	0.150	0.200	75	0.142	0.200	71	40-126	5	30
cis-Nonachlor	0.160	0.200	80	0.150	0.200	75	42-125	6	30
trans-Nonachlor	0.152	0.200	76	0.140	0.200	70	47-123	8	30
2,4'-DDD	0.159	0.200	79	0.155	0.200	78	51-112	2	30
4,4'-DDD	0.168	0.200	84	0.163	0.200	82	33-132	3	30
2,4'-DDE	0.162	0.200	81	0.159	0.200	80	29-126	2	30
4,4'-DDE	0.158	0.200	79	0.155	0.200	77	41-116	2	30
2,4'-DDT	0.166	0.200	83	0.165	0.200	82	51-117	1	30
4,4'-DDT	0.172	0.200	86	0.170	0.200	85	42-143	1	30
Dieldrin	0.157	0.200	78	0.151	0.200	76	50-115	4	30
Endosulfan I	0.126	0.200	63	0.124	0.200	62	35-115	1	30
Endosulfan II	0.143	0.200	72	0.137	0.200	69	28-128	4	30
Endrin	0.166	0.200	83	0.157	0.200	79	48-126	5	30
Endrin Aldehyde	0.162	0.200	81	0.153	0.200	77	27-104	6	30
Endrin Ketone	0.166	0.200	83	0.159	0.200	79	30-124	4	30
Heptachlor	0.158	0.200	79	0.152	0.200	76	40-115	3	30
Heptachlor Epoxide	0.155	0.200	77	0.144	0.200	72	49-109	7	30
alpha-BHC	0.163	0.200	82	0.156	0.200	78	36-122	5	30
beta-BHC	0.165	0.200	82	0.159	0.200	80	42-125	3	30
delta-BHC	0.175	0.200	88	0.165	0.200	83	48-123	6	30
gamma-BHC (Lindane)	0.160	0.200	80	0.153	0.200	77	44-117	4	30
Methoxychlor	0.183	0.200	91	0.173	0.200	87	43-143	5	30
Mirex	0.153	0.200	77	0.144	0.200	72	43-126	6	30
Toxaphene	0.976	1.00	98	1.11	1.00	111	36-137	13	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/16/2014
Date Analyzed: 06/26/2014

Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1406763

Lab Control Sample
 KWG1406763-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Aldrin	0.114	0.200	57	10-102
Chlordane	0.792	1.00	79	45-148
alpha-Chlordane	0.127	0.200	64	45-115
gamma-Chlordane	0.128	0.200	64	47-113
Oxychlordane	0.128	0.200	64	40-126
cis-Nonachlor	0.131	0.200	66	42-125
trans-Nonachlor	0.123	0.200	62	47-123
2,4'-DDD	0.138	0.200	69	51-112
4,4'-DDD	0.140	0.200	70	33-132
2,4'-DDE	0.147	0.200	74	29-126
4,4'-DDE	0.130	0.200	65	41-116
2,4'-DDT	0.138	0.200	69	51-117
4,4'-DDT	0.140	0.200	70	42-143
Dieldrin	0.134	0.200	67	50-115
Endosulfan I	0.108	0.200	54	35-115
Endosulfan II	0.120	0.200	60	28-128
Endrin	0.141	0.200	71	48-126
Endrin Aldehyde	0.140	0.200	70	27-104
Endrin Ketone	0.139	0.200	70	30-124
Heptachlor	0.132	0.200	66	40-115
Heptachlor Epoxide	0.126	0.200	63	49-109
alpha-BHC	0.134	0.200	67	36-122
beta-BHC	0.125	0.200	63	42-125
delta-BHC	0.146	0.200	73	48-123
gamma-BHC (Lindane)	0.134	0.200	67	44-117
Methoxychlor	0.149	0.200	75	43-143
Mirex	0.128	0.200	64	43-126
Toxaphene	0.848	1.00	85	36-137

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/11/2014
Date Analyzed: 06/26/2014
Time Analyzed: 00:24

Method Blank Summary
Organochlorine Pesticides

Sample Name: Method Blank **Instrument ID:** GC23
Lab Code: KWG1405574-7 **File ID:** J:\GC23\DATA\062514\0625F022.D
Extraction Method: EPA 3535A **Level:** Low
Analysis Method: 8081B **Extraction Lot:** KWG1405574

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
SYC14-SW	K1405818-001	J:\GC23\DATA\062514\0625F015.D	06/25/14	20:57
Lab Control Sample	KWG1405574-1	J:\GC23\DATA\062514\0625F016.D	06/25/14	21:27
Duplicate Lab Control Sample	KWG1405574-2	J:\GC23\DATA\062514\0625F017.D	06/25/14	21:56
Lab Control Sample	KWG1405574-1	J:\GC23\DATA\062514\0625F018.D	06/25/14	22:26
Duplicate Lab Control Sample	KWG1405574-2	J:\GC23\DATA\062514\0625F019.D	06/25/14	22:55
Lab Control Sample	KWG1405574-1	J:\GC23\DATA\062514\0625F020.D	06/25/14	23:25
Duplicate Lab Control Sample	KWG1405574-2	J:\GC23\DATA\062514\0625F021.D	06/25/14	23:54

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/16/2014
Date Analyzed: 06/26/2014
Time Analyzed: 12:44

Method Blank Summary
Organochlorine Pesticides

Sample Name: Method Blank **Instrument ID:** GC23
Lab Code: KWG1406763-10 **File ID:** J:\GC23\DATA\062514\0625F047.D
Extraction Method: EPA 3535A **Level:** Low
Analysis Method: 8081B **Extraction Lot:** KWG1406763

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
SYC14-AC Elutriate	K1405818-002	J:\GC23\DATA\062514\0625F029.D	06/26/14	03:51
SYC14-AC ElutriateMS	KWG1406763-1	J:\GC23\DATA\062514\0625F030.D	06/26/14	04:21
SYC14-AC ElutriateDMS	KWG1406763-2	J:\GC23\DATA\062514\0625F031.D	06/26/14	04:51
SYC14-AC ElutriateMS	KWG1406763-1	J:\GC23\DATA\062514\0625F032.D	06/26/14	05:20
SYC14-AC ElutriateDMS	KWG1406763-2	J:\GC23\DATA\062514\0625F033.D	06/26/14	05:50
SYC14-AC ElutriateMS	KWG1406763-1	J:\GC23\DATA\062514\0625F034.D	06/26/14	06:19
SYC14-AC ElutriateDMS	KWG1406763-2	J:\GC23\DATA\062514\0625F035.D	06/26/14	06:49
SYC14-TB1 Elutriate	K1405818-003	J:\GC23\DATA\062514\0625F036.D	06/26/14	07:18
SYC14-TB2 Elutriate	K1405818-004	J:\GC23\DATA\062514\0625F037.D	06/26/14	07:48
Lab Control Sample	KWG1406763-3	J:\GC23\DATA\062514\0625F044.D	06/26/14	11:15
Lab Control Sample	KWG1406763-3	J:\GC23\DATA\062514\0625F045.D	06/26/14	11:45
Lab Control Sample	KWG1406763-3	J:\GC23\DATA\062514\0625F046.D	06/26/14	12:14

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/11/2014
Date Analyzed: 06/25/2014
Time Analyzed: 21:27

Lab Control Sample Summary
Organochlorine Pesticides

Sample Name: Lab Control Sample
Lab Code: KWG1405574-1
Extraction Method: EPA 3535A
Analysis Method: 8081B

Instrument ID: GC23
File ID: J:\GC23\DATA\062514\0625F016.D
Level: Low
Extraction Lot: KWG1405574

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
SYC14-SW	K1405818-001	J:\GC23\DATA\062514\0625F015.D	06/25/14	20:57
Method Blank	KWG1405574-7	J:\GC23\DATA\062514\0625F022.D	06/26/14	00:24

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/11/2014
Date Analyzed: 06/25/2014
Time Analyzed: 22:26

Lab Control Sample Summary
Organochlorine Pesticides

Sample Name: Lab Control Sample
Lab Code: KWG1405574-1
Extraction Method: EPA 3535A
Analysis Method: 8081B

Instrument ID: GC23
File ID: J:\GC23\DATA\062514\0625F018.D
Level: Low
Extraction Lot: KWG1405574

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
SYC14-SW	K1405818-001	J:\GC23\DATA\062514\0625F015.D	06/25/14	20:57
Method Blank	KWG1405574-7	J:\GC23\DATA\062514\0625F022.D	06/26/14	00:24

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/11/2014
Date Analyzed: 06/25/2014
Time Analyzed: 23:25

**Lab Control Sample Summary
 Organochlorine Pesticides**

Sample Name: Lab Control Sample **Instrument ID:** GC23
Lab Code: KWG1405574-1 **File ID:** J:\GC23\DATA\062514\0625F020.D
Extraction Method: EPA 3535A **Level:** Low
Analysis Method: 8081B **Extraction Lot:** KWG1405574

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
SYC14-SW	K1405818-001	J:\GC23\DATA\062514\0625F015.D	06/25/14	20:57
Method Blank	KWG1405574-7	J:\GC23\DATA\062514\0625F022.D	06/26/14	00:24

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/16/2014
Date Analyzed: 06/26/2014
Time Analyzed: 11:45

Lab Control Sample Summary
Organochlorine Pesticides

Sample Name:	Lab Control Sample	Instrument ID:	GC23
Lab Code:	KWG1406763-3	File ID:	J:\GC23\DATA\062514\0625F045.D
Extraction Method:	EPA 3535A	Level:	Low
Analysis Method:	8081B	Extraction Lot:	KWG1406763

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
SYC14-AC Elutriate	K1405818-002	J:\GC23\DATA\062514\0625F029.D	06/26/14	03:51
SYC14-AC ElutriateMS	KWG1406763-1	J:\GC23\DATA\062514\0625F030.D	06/26/14	04:21
SYC14-AC ElutriateDMS	KWG1406763-2	J:\GC23\DATA\062514\0625F031.D	06/26/14	04:51
SYC14-AC ElutriateMS	KWG1406763-1	J:\GC23\DATA\062514\0625F032.D	06/26/14	05:20
SYC14-AC ElutriateDMS	KWG1406763-2	J:\GC23\DATA\062514\0625F033.D	06/26/14	05:50
SYC14-AC ElutriateMS	KWG1406763-1	J:\GC23\DATA\062514\0625F034.D	06/26/14	06:19
SYC14-AC ElutriateDMS	KWG1406763-2	J:\GC23\DATA\062514\0625F035.D	06/26/14	06:49
SYC14-TB1 Elutriate	K1405818-003	J:\GC23\DATA\062514\0625F036.D	06/26/14	07:18
SYC14-TB2 Elutriate	K1405818-004	J:\GC23\DATA\062514\0625F037.D	06/26/14	07:48
Method Blank	KWG1406763-10	J:\GC23\DATA\062514\0625F047.D	06/26/14	12:44

QA/QC Report

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/16/2014
Date Analyzed: 06/26/2014
Time Analyzed: 12:14

Lab Control Sample Summary
Organochlorine Pesticides

Sample Name: Lab Control Sample **Instrument ID:** GC23
Lab Code: KWG1406763-3 **File ID:** J:\GC23\DATA\062514\0625F046.D
Extraction Method: EPA 3535A **Level:** Low
Analysis Method: 8081B **Extraction Lot:** KWG1406763

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
SYC14-AC Elutriate	K1405818-002	J:\GC23\DATA\062514\0625F029.D	06/26/14	03:51
SYC14-AC ElutriateMS	KWG1406763-1	J:\GC23\DATA\062514\0625F030.D	06/26/14	04:21
SYC14-AC ElutriateDMS	KWG1406763-2	J:\GC23\DATA\062514\0625F031.D	06/26/14	04:51
SYC14-AC ElutriateMS	KWG1406763-1	J:\GC23\DATA\062514\0625F032.D	06/26/14	05:20
SYC14-AC ElutriateDMS	KWG1406763-2	J:\GC23\DATA\062514\0625F033.D	06/26/14	05:50
SYC14-AC ElutriateMS	KWG1406763-1	J:\GC23\DATA\062514\0625F034.D	06/26/14	06:19
SYC14-AC ElutriateDMS	KWG1406763-2	J:\GC23\DATA\062514\0625F035.D	06/26/14	06:49
SYC14-TB1 Elutriate	K1405818-003	J:\GC23\DATA\062514\0625F036.D	06/26/14	07:18
SYC14-TB2 Elutriate	K1405818-004	J:\GC23\DATA\062514\0625F037.D	06/26/14	07:48
Method Blank	KWG1406763-10	J:\GC23\DATA\062514\0625F047.D	06/26/14	12:44

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB XLB

Level ID	File ID	Level ID	File ID
A	J:\GC23\DATA\031714ICAL\0317F012.D	N	J:\GC23\DATA\031714ICAL\0317F029.D
B	J:\GC23\DATA\031714ICAL\0317F013.D	O	J:\GC23\DATA\031714ICAL\0317F030.D
C	J:\GC23\DATA\031714ICAL\0317F014.D	P	J:\GC23\DATA\031714ICAL\0317F031.D
D	J:\GC23\DATA\031714ICAL\0317F015.D	Q	J:\GC23\DATA\031814C\0318F005.D
E	J:\GC23\DATA\031714ICAL\0317F016.D	R	J:\GC23\DATA\031814C\0318F006.D
F	J:\GC23\DATA\031714ICAL\0317F017.D	S	J:\GC23\DATA\031814C\0318F007.D
G	J:\GC23\DATA\031714ICAL\0317F020.D	T	J:\GC23\DATA\031814C\0318F008.D
H	J:\GC23\DATA\031714ICAL\0317F021.D	U	J:\GC23\DATA\031814C\0318F009.D
I	J:\GC23\DATA\031714ICAL\0317F023.D	V	J:\GC23\DATA\031814C\0318F010.D
J	J:\GC23\DATA\031714ICAL\0317F024.D	W	J:\GC23\DATA\031714ICAL\0319FX05.D
K	J:\GC23\DATA\031714ICAL\0317F026.D	X	J:\GC23\DATA\031714ICAL\0319FX06.D
L	J:\GC23\DATA\031714ICAL\0317F027.D		
M	J:\GC23\DATA\031714ICAL\0317F028.D		

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
Tetrachloro-m-xylene				Q	2.0	1.76	R	5.0	1.39	S	20	1.25	T	50	1.16
	U	100	1.20	V	200	1.19									
Decachlorobiphenyl				Q	2.0	1.48	R	5.0	1.26	S	20	1.17	T	50	1.05
	U	100	1.03	V	200	0.957									
Aldrin				Q	2.0	1.70	R	5.0	1.40	S	20	1.32	T	50	1.29
	U	100	1.36	V	200	1.36									
Chlordane {1}				G	25	0.0534	H	50	0.0485	I	500	0.0406	J	1000	0.0397
							W	100	0.0453	X	2000	0.0384			
Chlordane {2}				G	25	0.0782	H	50	0.0696	I	500	0.0601	J	1000	0.0623
							W	100	0.0713	X	2000	0.0666			

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
 Project: Shipyard Creek MPRSA S103

Service Request: K1405818
 Calibration Date: 03/17/2014

Initial Calibration Summary
 Organochlorine Pesticides

Calibration ID: CAL13214
 Instrument ID: GC23

Column: DB XLB

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Chlordane {3}				G	25	0.0566	H	50	0.0523	I	500	0.0413	J	1000	0.0401
							W	100	0.0473	X	2000	0.0373			
Chlordane {4}				G	25	0.175	H	50	0.162	I	500	0.144	J	1000	0.151
							W	100	0.152	X	2000	0.155			
Chlordane {5}				G	25	0.137	H	50	0.123	I	500	0.105	J	1000	0.106
							W	100	0.113	X	2000	0.109			
Chlordane {6}				G	25	0.103	H	50	0.0927	I	500	0.0749	J	1000	0.0743
							W	100	0.0823	X	2000	0.0764			
alpha-Chlordane															
	U	100	1.18	Q	2.0	1.65	R	5.0	1.34	S	20	1.22	T	50	1.19
gamma-Chlordane															
	U	100	1.20	Q	2.0	1.67	R	5.0	1.34	S	20	1.23	T	50	1.21
Oxychlordane															
	K	2.0	1.28	L	5.0	1.18	M	20	1.04	N	50	0.988	O	75	0.964
cis-Nonachlor															
	K	2.0	1.48	L	5.0	1.36	M	20	1.25	N	50	1.20	O	75	1.20
	P	100	1.21												

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
 Project: Shipyard Creek MPRSA S103

Service Request: K1405818
 Calibration Date: 03/17/2014

Initial Calibration Summary
 Organochlorine Pesticides

Calibration ID: CAL13214
 Instrument ID: GC23

Column: DB XLB

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
trans-Nonachlor	K	2.0	1.53	L	5.0	1.40	M	20	1.25	N	50	1.17	O	75	1.16
	P	100	1.16												
2,4'-DDD				Q	2.0	0.924	R	5.0	0.796	S	20	0.742	T	50	0.684
				V	200	0.657									
4,4'-DDD				Q	2.0	1.27	R	5.0	0.990	S	20	0.960	T	50	0.993
	U	100	0.951	V	200	1.00									
2,4'-DDE				Q	2.0	0.964	R	5.0	0.917	S	20	0.801	T	50	0.759
				V	200	0.739									
4,4'-DDE				Q	2.0	1.50	R	5.0	1.24	S	20	1.19	T	50	1.18
	U	100	1.21	V	200	1.23									
2,4'-DDT				Q	2.0	0.912	R	5.0	0.785	S	20	0.771	T	50	0.741
				V	200	0.753									
4,4'-DDT				Q	2.0	1.01	R	5.0	0.858	S	20	0.891	T	50	0.881
	U	100	0.894	V	200	0.945									
Dieldrin				Q	2.0	1.49	R	5.0	1.26	S	20	1.17	T	50	1.19
	U	100	1.19	V	200	1.22									

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB XLB

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Endosulfan I				Q	2.0	1.50	R	5.0	1.23	S	20	1.09	T	50	1.09
	U	100	1.06	V	200	1.06									
Endosulfan II				Q	2.0	1.38	R	5.0	1.08	S	20	1.00	T	50	1.06
	U	100	0.962	V	200	0.994									
Endrin				Q	2.0	1.31	R	5.0	1.11	S	20	1.03	T	50	1.02
	U	100	1.01	V	200	1.04									
Endrin Aldehyde							R	5.0	0.760	S	20	0.708	T	50	0.764
	U	100	0.624	V	200	0.689									
Endrin Ketone				Q	2.0	1.50	R	5.0	1.20	S	20	1.13	T	50	1.20
	U	100	1.08	V	200	1.14									
Heptachlor				Q	2.0	1.69	R	5.0	1.42	S	20	1.28	T	50	1.26
	U	100	1.30	V	200	1.32									
Heptachlor Epoxide				Q	2.0	1.66	R	5.0	1.31	S	20	1.21	T	50	1.21
	U	100	1.18	V	200	1.20									
alpha-BHC				Q	2.0	1.83	R	5.0	1.47	S	20	1.39	T	50	1.50
	U	100	1.48	V	200	1.59									

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB XLB

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
beta-BHC	U	100	0.570	V	200	0.590	R	5.0	0.719	S	20	0.649	T	50	0.665
delta-BHC	U	100	1.30	Q	2.0	1.63	R	5.0	1.31	S	20	1.25	T	50	1.38
				V	200	1.41									
gamma-BHC (Lindane)	U	100	1.33	Q	2.0	1.73	R	5.0	1.38	S	20	1.29	T	50	1.37
				V	200	1.42									
Methoxychlor	U	100	0.448	Q	2.0	0.557	R	5.0	0.478	S	20	0.481	T	50	0.481
				V	200	0.466									
Mirex	K	2.0	1.18	L	5.0	1.05	M	20	0.950	N	50	0.876	O	75	0.853
	P	100	0.837												
Toxaphene {1}	A	200	0.00747	B	250	0.00705	C	500	0.00613	D	1000	0.00633	E	2000	0.00621
	F	5000	0.00644												
Toxaphene {2}	A	200	0.0108	B	250	0.0107	C	500	0.00956	D	1000	0.00920	E	2000	0.00902
	F	5000	0.00922												
Toxaphene {3}	A	200	0.0231	B	250	0.0229	C	500	0.0223	D	1000	0.0206	E	1500	0.0276
	F	5000	0.0204												

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB XLB

Analyte Name	Level ID			Level ID			Level ID			Level ID				
	Amt	RRF		Amt	RRF		Amt	RRF		Amt	RRF			
Toxaphene {4}	200	0.0159		250	0.0157		500	0.0143		1000	0.0145		2000	0.0132
	5000	0.0136												
Toxaphene {5}	200	0.0161		250	0.0157		500	0.0146		1000	0.0145		2000	0.0141
	5000	0.0140												
Toxaphene {6}	200	0.0203		250	0.0198		500	0.0186		1000	0.0191		2000	0.0194
	5000	0.0204												

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB XLB

Analyte Name	Compound Type	Calibration Evaluation				RRF Evaluation			
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Tetrachloro-m-xylene	SURR	Quadratic	COD	1.000		≥ 0.990	1.33		
Decachlorobiphenyl	SURR	Quadratic	COD	1.000		≥ 0.990	1.16		
Aldrin	MS	AverageRF	% RSD	10.5		≤ 20	1.41		
Chlordane {1}	MULTI	Quadratic	COD	1.000		≥ 0.990	0.0443		
Chlordane {2}	MULTI	AverageRF	% RSD	9.7		≤ 20	0.0680		
Chlordane {3}	MULTI	Quadratic	COD	1.000		≥ 0.990	0.0458		
Chlordane {4}	MULTI	AverageRF	% RSD	6.8		≤ 20	0.156		
Chlordane {5}	MULTI	AverageRF	% RSD	10.8		≤ 20	0.116		
Chlordane {6}	MULTI	AverageRF	% RSD	13.7		≤ 20	0.0839		
alpha-Chlordane	MS	AverageRF	% RSD	14.2		≤ 20	1.29		
gamma-Chlordane	MS	AverageRF	% RSD	13.9		≤ 20	1.31		
Oxychlordane	MS	AverageRF	% RSD	12.5		≤ 20	1.07		
cis-Nonachlor	MS	AverageRF	% RSD	8.9		≤ 20	1.28		
trans-Nonachlor	MS	AverageRF	% RSD	12.0		≤ 20	1.28		
2,4'-DDD	MS	AverageRF	% RSD	13.9		≤ 20	0.761		
4,4'-DDD	MS	AverageRF	% RSD	11.7		≤ 20	1.03		
2,4'-DDE	MS	AverageRF	% RSD	11.9		≤ 20	0.836		
4,4'-DDE	MS	AverageRF	% RSD	9.7		≤ 20	1.26		
2,4'-DDT	MS	AverageRF	% RSD	8.7		≤ 20	0.792		
4,4'-DDT	MS	AverageRF	% RSD	6.2		≤ 20	0.914		
Dieldrin	MS	AverageRF	% RSD	9.7		≤ 20	1.25		
Endosulfan I	MS	AverageRF	% RSD	14.7		≤ 20	1.17		
Endosulfan II	MS	AverageRF	% RSD	14.3		≤ 20	1.08		
Endrin	MS	AverageRF	% RSD	10.4		≤ 20	1.09		
Endrin Aldehyde	MS	AverageRF	% RSD	8.1		≤ 20	0.709		
Endrin Ketone	MS	AverageRF	% RSD	12.5		≤ 20	1.21		
Heptachlor	MS	AverageRF	% RSD	11.8		≤ 20	1.38		
Heptachlor Epoxide	MS	AverageRF	% RSD	14.2		≤ 20	1.30		
alpha-BHC	MS	AverageRF	% RSD	9.9		≤ 20	1.54		
beta-BHC	MS	AverageRF	% RSD	9.4		≤ 20	0.638		
delta-BHC	MS	AverageRF	% RSD	9.7		≤ 20	1.38		
gamma-BHC (Lindane)	MS	AverageRF	% RSD	11.0		≤ 20	1.42		
Methoxychlor	MS	AverageRF	% RSD	7.7		≤ 20	0.485		
Mirex	MS	AverageRF	% RSD	13.8		≤ 20	0.956		
Toxaphene {1}	MULTI	AverageRF	% RSD	8.1		≤ 20	0.00661		
Toxaphene {2}	MULTI	AverageRF	% RSD	8.1		≤ 20	0.00974		
Toxaphene {3}	MULTI	AverageRF	% RSD	11.4		≤ 20	0.0228		
Toxaphene {4}	MULTI	AverageRF	% RSD	7.4		≤ 20	0.0145		
Toxaphene {5}	MULTI	AverageRF	% RSD	6.0		≤ 20	0.0148		
Toxaphene {6}	MULTI	AverageRF	% RSD	3.6		≤ 20	0.0196		

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014
Date Analyzed: 03/17/2014 -
 03/19/2014

Second Source Calibration Verification
Organochlorine Pesticides

Calibration Type: Internal Standard
Analysis Method: 8081B

Calibration ID: CAL13214
Units: ug/L

File ID: J:\GC23\DATA\031714ICAL\0317F018.D
 J:\GC23\DATA\031714ICAL\0317F032.D
 J:\GC23\DATA\031714ICAL\0319FX07.D
 J:\GC23\DATA\031814C\0318F011.D
 J:\GC23\DATA\031814C\0318F012.D

Column ID: DB XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Aldrin	40	39	1.41	1.36	-3	NA	± 20 %	AverageRF
Chlordane {1}	1000	980	0.0443	0.0391	NA	-2	± 100 %	Quadratic
Chlordane {2}	1000	1000	0.0680	0.0688	1	NA	± 100 %	AverageRF
Chlordane {3}	1000	930	0.0458	0.0375	NA	-7	± 100 %	Quadratic
Chlordane {4}	1000	1100	0.156	0.164	5	NA	± 100 %	AverageRF
Chlordane {5}	1000	910	0.116	0.105	-9	NA	± 100 %	AverageRF
Chlordane {6}	1000	1200	0.0839	0.103	23	NA	± 100 %	AverageRF
Chlordane	1000	1000	NA	NA	NA	2	± 20 %	NA
alpha-Chlordane	40	41	1.29	1.31	2	NA	± 20 %	AverageRF
gamma-Chlordane	40	41	1.31	1.33	1	NA	± 20 %	AverageRF
Oxychlordane	40	46	1.07	1.22	14	NA	± 20 %	AverageRF
cis-Nonachlor	40	42	1.28	1.36	6	NA	± 20 %	AverageRF
trans-Nonachlor	40	41	1.28	1.32	3	NA	± 20 %	AverageRF
2,4'-DDD	40	40	0.761	0.760	0	NA	± 20 %	AverageRF
4,4'-DDD	40	41	1.03	1.06	3	NA	± 20 %	AverageRF
2,4'-DDE	40	41	0.836	0.858	3	NA	± 20 %	AverageRF
4,4'-DDE	40	41	1.26	1.30	3	NA	± 20 %	AverageRF
2,4'-DDT	40	38	0.792	0.744	-6	NA	± 20 %	AverageRF
4,4'-DDT	40	39	0.914	0.897	-2	NA	± 20 %	AverageRF
Dieldrin	40	42	1.25	1.32	5	NA	± 20 %	AverageRF
Endosulfan I	40	41	1.17	1.21	4	NA	± 20 %	AverageRF
Endosulfan II	40	43	1.08	1.17	8	NA	± 20 %	AverageRF
Endrin	40	40	1.09	1.10	1	NA	± 20 %	AverageRF
Endrin Aldehyde	40	48	0.709	0.858	21	*	± 20 %	AverageRF
Endrin Ketone	40	43	1.21	1.29	7	NA	± 20 %	AverageRF
Heptachlor	40	40	1.38	1.38	0	NA	± 20 %	AverageRF
Heptachlor Epoxide	40	41	1.30	1.34	3	NA	± 20 %	AverageRF
alpha-BHC	40	41	1.54	1.60	3	NA	± 20 %	AverageRF
beta-BHC	40	46	0.638	0.736	15	NA	± 20 %	AverageRF
delta-BHC	40	43	1.38	1.49	8	NA	± 20 %	AverageRF
gamma-BHC (Lindane)	40	42	1.42	1.48	4	NA	± 20 %	AverageRF
Methoxychlor	40	42	0.485	0.511	5	NA	± 20 %	AverageRF
Mirex	40	42	0.956	1.01	6	NA	± 20 %	AverageRF
Toxaphene {1}	1000	970	0.00661	0.00643	-3	NA	± 100 %	AverageRF
Toxaphene {2}	1000	1000	0.00974	0.00978	0	NA	± 100 %	AverageRF
Toxaphene {3}	1000	940	0.0228	0.0214	-6	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014
Date Analyzed: 03/17/2014 -
 03/19/2014

Second Source Calibration Verification
Organochlorine Pesticides

Calibration Type: Internal Standard
Analysis Method: 8081B

Calibration ID: CAL13214
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Toxaphene {4}	1000	1100	0.0145	0.0155	7	NA	± 100 %	AverageRF
Toxaphene {5}	1000	1000	0.0148	0.0152	3	NA	± 100 %	AverageRF
Toxaphene {6}	1000	1000	0.0196	0.0196	0	NA	± 100 %	AverageRF
Toxaphene	1000	1000	NA	NA	NA	0	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB-35MS

Level ID	File ID	Level ID	File ID
A	J:\GC23\DATA\031714ICAL\0317F012.D\0317F012c.d	N	J:\GC23\DATA\031714ICAL\0317F029.D\0317F029c.d
B	J:\GC23\DATA\031714ICAL\0317F013.D\0317F013c.d	O	J:\GC23\DATA\031714ICAL\0317F030.D\0317F030c.d
C	J:\GC23\DATA\031714ICAL\0317F014.D\0317F014c.d	P	J:\GC23\DATA\031714ICAL\0317F031.D\0317F031c.d
D	J:\GC23\DATA\031714ICAL\0317F015.D\0317F015c.d	Q	J:\GC23\DATA\031814C\0318F005.D\0318F005c.d
E	J:\GC23\DATA\031714ICAL\0317F016.D\0317F016c.d	R	J:\GC23\DATA\031814C\0318F006.D\0318F006c.d
F	J:\GC23\DATA\031714ICAL\0317F017.D\0317F017c.d	S	J:\GC23\DATA\031814C\0318F007.D\0318F007c.d
G	J:\GC23\DATA\031714ICAL\0317F020.D\0317F020c.d	T	J:\GC23\DATA\031814C\0318F008.D\0318F008c.d
H	J:\GC23\DATA\031714ICAL\0317F021.D\0317F021c.d	U	J:\GC23\DATA\031814C\0318F009.D\0318F009c.d
I	J:\GC23\DATA\031714ICAL\0317F023.D\0317F023c.d	V	J:\GC23\DATA\031814C\0318F010.D\0318F010c.d
J	J:\GC23\DATA\031714ICAL\0317F024.D\0317F024c.d	W	J:\GC23\DATA\031714ICAL\0319FX05.D\0319FX05c.d
K	J:\GC23\DATA\031714ICAL\0317F026.D\0317F026c.d	X	J:\GC23\DATA\031714ICAL\0319FX06.D\0319FX06c.d
L	J:\GC23\DATA\031714ICAL\0317F027.D\0317F027c.d		
M	J:\GC23\DATA\031714ICAL\0317F028.D\0317F028c.d		

Analyte Name	Level ID			Level ID			Level ID			Level ID			Level ID		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
Tetrachloro-m-xylene				Q	2.0	1.60	R	5.0	1.34	S	20	1.28	T	50	1.22
	U	100	1.23	V	200	1.24									
Decachlorobiphenyl				Q	2.0	1.37	R	5.0	1.17	S	20	1.13	T	50	1.02
	U	100	1.02	V	200	0.995									
Aldrin				Q	2.0	1.72	R	5.0	1.47	S	20	1.47	T	50	1.44
	U	100	1.48	V	200	1.51									
Chlordane {1}				G	25	0.0466	H	50	0.0439	I	500	0.0387	J	1000	0.0386
							W	100	0.0404	X	2000	0.0384			
Chlordane {2}				G	25	0.0720	H	50	0.0668	I	500	0.0621	J	1000	0.0630
							W	100	0.0652	X	2000	0.0636			

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QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB-35MS

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
Chlordane {3}				G	25	0.157	H	50	0.148	I	500	0.143	J	1000	0.143
							W	100	0.143	X	2000	0.142			
Chlordane {4}				G	25	0.0990	H	50	0.0931	I	500	0.0835	J	1000	0.0840
							W	100	0.0847	X	2000	0.0813			
Chlordane {5}				G	25	0.0529	H	50	0.0504	I	500	0.0479	J	1000	0.0474
							W	100	0.0481	X	2000	0.0474			
Chlordane {6}				G	25	0.133	H	50	0.124	I	500	0.115	J	1000	0.114
							W	100	0.116	X	2000	0.112			
alpha-Chlordane															
	U	100	1.27	Q	2.0	1.72	R	5.0	1.36	S	20	1.32	T	50	1.29
gamma-Chlordane															
	U	100	1.32	Q	2.0	1.75	R	5.0	1.35	S	20	1.33	T	50	1.35
Oxychlordane															
	K	2.0	1.38	L	5.0	1.23	M	20	1.13	N	50	1.05	O	75	1.04
cis-Nonachlor															
	K	2.0	1.64	L	5.0	1.53	M	20	1.43	N	50	1.35	O	75	1.34
	P	100	1.34												

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB-35MS

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
trans-Nonachlor	K	2.0	1.63	L	5.0	1.47	M	20	1.40	N	50	1.31	O	75	1.30
	P	100	1.29												
2,4'-DDD				Q	2.0	1.00	R	5.0	0.818	S	20	0.775	T	50	0.729
				V	200	0.704									
4,4'-DDD				Q	2.0	1.22	R	5.0	1.05	S	20	1.02	T	50	1.05
	U	100	0.993	V	200	1.05									
2,4'-DDE				Q	2.0	1.05	R	5.0	0.895	S	20	0.857	T	50	0.791
				V	200	0.826									
4,4'-DDE				Q	2.0	1.52	R	5.0	1.36	S	20	1.31	T	50	1.30
	U	100	1.32	V	200	1.36									
2,4'-DDT				Q	2.0	1.03	R	5.0	0.848	S	20	0.833	T	50	0.793
				V	200	0.774									
4,4'-DDT				Q	2.0	1.23	R	5.0	1.01	S	20	0.967	T	50	0.951
	U	100	0.934	V	200	0.957									
Dieldrin				Q	2.0	1.68	R	5.0	1.37	S	20	1.30	T	50	1.30
	U	100	1.28	V	200	1.32									

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB-35MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Endosulfan I				Q	2.0	1.46	R	5.0	1.20	S	20	1.17	T	50	1.19
	U	100	1.13	V	200	1.15									
Endosulfan II				Q	2.0	1.38	R	5.0	1.12	S	20	1.07	T	50	1.13
	U	100	1.02	V	200	1.07									
Endrin				Q	2.0	1.40	R	5.0	1.25	S	20	1.13	T	50	1.11
	U	100	1.09	V	200	1.12									
Endrin Aldehyde				Q	2.0	1.09	R	5.0	0.864	S	20	0.812	T	50	0.889
	U	100	0.747	V	200	0.828									
Endrin Ketone				Q	2.0	1.61	R	5.0	1.28	S	20	1.25	T	50	1.29
	U	100	1.14	V	200	1.21									
Heptachlor				Q	2.0	1.68	R	5.0	1.36	S	20	1.32	T	50	1.28
	U	100	1.29	V	200	1.30									
Heptachlor Epoxide				Q	2.0	1.62	R	5.0	1.35	S	20	1.29	T	50	1.28
	U	100	1.24	V	200	1.29									
alpha-BHC				Q	2.0	1.73	R	5.0	1.46	S	20	1.49	T	50	1.61
	U	100	1.57	V	200	1.68									

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB-35MS

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
beta-BHC				Q	2.0	0.931	R	5.0	0.750	S	20	0.693	T	50	0.718
	U	100	0.626	V	200	0.670									
delta-BHC				Q	2.0	1.59	R	5.0	1.37	S	20	1.33	T	50	1.48
	U	100	1.38	V	200	1.50									
gamma-BHC (Lindane)				Q	2.0	1.69	R	5.0	1.37	S	20	1.38	T	50	1.47
	U	100	1.40	V	200	1.50									
Methoxychlor				Q	2.0	0.645	R	5.0	0.525	S	20	0.523	T	50	0.499
	U	100	0.445	V	200	0.451									
Mirex	K	2.0	1.39	L	5.0	1.26	M	20	1.13	N	50	1.01	O	75	0.976
	P	100	0.955												
Toxaphene {1}	A	200	0.0213	B	250	0.0208	C	500	0.0199	D	1000	0.0185	E	2000	0.0184
	F	5000	0.0179												
Toxaphene {2}	A	200	0.00858	B	250	0.00844	C	500	0.00781	D	1000	0.00730	E	2000	0.00723
	F	5000	0.00665												
Toxaphene {3}	A	200	0.0118	B	250	0.0118	C	500	0.0101	D	1000	0.00971	E	2000	0.00947
	F	5000	0.00913												

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB-35MS

Analyte Name	Level			Level			Level			Level					
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF			
Toxaphene {4}	A	200	0.0140	B	250	0.0136	C	500	0.0122	D	1000	0.0122	E	2000	0.0119
	F	5000	0.0116												
Toxaphene {5}	A	200	0.0252	B	250	0.0247	C	500	0.0231	D	1000	0.0229	E	2000	0.0223
	F	5000	0.0222												
Toxaphene {6}	A	200	0.0195	B	250	0.0190	C	500	0.0167	D	1000	0.0168	E	2000	0.0155
	F	5000	0.0148												

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014

Initial Calibration Summary
Organochlorine Pesticides

Calibration ID: CAL13214
Instrument ID: GC23

Column: DB-35MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Tetrachloro-m-xylene	SURR	AverageRF	% RSD	11.0		≤20	1.32		
Decachlorobiphenyl	SURR	AverageRF	% RSD	12.8		≤20	1.12		
Aldrin	MS	AverageRF	% RSD	6.8		≤20	1.51		
Chlordane {1}	MULTI	AverageRF	% RSD	8.3		≤20	0.0411		
Chlordane {2}	MULTI	AverageRF	% RSD	5.5		≤20	0.0654		
Chlordane {3}	MULTI	AverageRF	% RSD	4.0		≤20	0.146		
Chlordane {4}	MULTI	AverageRF	% RSD	7.9		≤20	0.0876		
Chlordane {5}	MULTI	AverageRF	% RSD	4.5		≤20	0.0490		
Chlordane {6}	MULTI	AverageRF	% RSD	6.9		≤20	0.119		
alpha-Chlordane	MS	AverageRF	% RSD	12.5		≤20	1.38		
gamma-Chlordane	MS	AverageRF	% RSD	11.9		≤20	1.41		
Oxychlordane	MS	AverageRF	% RSD	12.1		≤20	1.14		
cis-Nonachlor	MS	AverageRF	% RSD	8.5		≤20	1.44		
trans-Nonachlor	MS	AverageRF	% RSD	9.5		≤20	1.40		
2,4'-DDD	MS	AverageRF	% RSD	14.6		≤20	0.805		
4,4'-DDD	MS	AverageRF	% RSD	7.5		≤20	1.06		
2,4'-DDE	MS	AverageRF	% RSD	11.4		≤20	0.884		
4,4'-DDE	MS	AverageRF	% RSD	5.8		≤20	1.36		
2,4'-DDT	MS	AverageRF	% RSD	11.9		≤20	0.855		
4,4'-DDT	MS	AverageRF	% RSD	11.0		≤20	1.01		
Dieldrin	MS	AverageRF	% RSD	11.1		≤20	1.37		
Endosulfan I	MS	AverageRF	% RSD	10.1		≤20	1.22		
Endosulfan II	MS	AverageRF	% RSD	11.4		≤20	1.13		
Endrin	MS	AverageRF	% RSD	10.4		≤20	1.18		
Endrin Aldehyde	MS	AverageRF	% RSD	13.4		≤20	0.871		
Endrin Ketone	MS	AverageRF	% RSD	12.5		≤20	1.30		
Heptachlor	MS	AverageRF	% RSD	11.1		≤20	1.37		
Heptachlor Epoxide	MS	AverageRF	% RSD	10.3		≤20	1.35		
alpha-BHC	MS	AverageRF	% RSD	6.6		≤20	1.59		
beta-BHC	MS	AverageRF	% RSD	14.6		≤20	0.732		
delta-BHC	MS	AverageRF	% RSD	6.8		≤20	1.44		
gamma-BHC (Lindane)	MS	AverageRF	% RSD	8.2		≤20	1.47		
Methoxychlor	MS	AverageRF	% RSD	14.1		≤20	0.515		
Mirex	MS	Quadratic	COD	1.000		≥0.990	1.12		
Toxaphene {1}	MULTI	AverageRF	% RSD	7.1		≤20	0.0195		
Toxaphene {2}	MULTI	AverageRF	% RSD	9.8		≤20	0.00767		
Toxaphene {3}	MULTI	AverageRF	% RSD	11.5		≤20	0.0103		
Toxaphene {4}	MULTI	AverageRF	% RSD	7.9		≤20	0.0126		
Toxaphene {5}	MULTI	AverageRF	% RSD	5.4		≤20	0.0234		
Toxaphene {6}	MULTI	AverageRF	% RSD	11.0		≤20	0.0171		

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014
Date Analyzed: 03/17/2014 -
 03/19/2014

Second Source Calibration Verification
Organochlorine Pesticides

Calibration Type: Internal Standard
Analysis Method: 8081B

Calibration ID: CAL13214
Units: ug/L

File ID: J:\GC23\DATA\031714ICAL\0317F018.D\0317F018c.d
 J:\GC23\DATA\031714ICAL\0317F032.D\0317F032c.d
 J:\GC23\DATA\031714ICAL\0319FX07.D\0319FX07c.d
 J:\GC23\DATA\031814C\0318F011.D\0318F011c.d
 J:\GC23\DATA\031814C\0318F012.D\0318F012c.d

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Aldrin	40	42	1.51	1.59	5	NA	± 20 %	AverageRF
Chlordane {1}	1000	890	0.0411	0.0367	-11	NA	± 100 %	AverageRF
Chlordane {2}	1000	1000	0.0654	0.0672	3	NA	± 100 %	AverageRF
Chlordane {3}	1000	990	0.146	0.144	-1	NA	± 100 %	AverageRF
Chlordane {4}	1000	1200	0.0876	0.110	25	NA	± 100 %	AverageRF
Chlordane {5}	1000	1000	0.0490	0.0500	2	NA	± 100 %	AverageRF
Chlordane {6}	1000	890	0.119	0.106	-11	NA	± 100 %	AverageRF
Chlordane	1000	1000	NA	NA	NA	1	± 20 %	NA
alpha-Chlordane	40	43	1.38	1.47	7	NA	± 20 %	AverageRF
gamma-Chlordane	40	42	1.41	1.49	6	NA	± 20 %	AverageRF
Oxychlordane	40	46	1.14	1.31	14	NA	± 20 %	AverageRF
cis-Nonachlor	40	42	1.44	1.53	6	NA	± 20 %	AverageRF
trans-Nonachlor	40	42	1.40	1.47	5	NA	± 20 %	AverageRF
2,4'-DDD	40	41	0.805	0.831	3	NA	± 20 %	AverageRF
4,4'-DDD	40	43	1.06	1.15	8	NA	± 20 %	AverageRF
2,4'-DDE	40	44	0.884	0.974	10	NA	± 20 %	AverageRF
4,4'-DDE	40	44	1.36	1.49	10	NA	± 20 %	AverageRF
2,4'-DDT	40	37	0.855	0.802	-6	NA	± 20 %	AverageRF
4,4'-DDT	40	39	1.01	0.983	-3	NA	± 20 %	AverageRF
Dieldrin	40	42	1.37	1.46	6	NA	± 20 %	AverageRF
Endosulfan I	40	44	1.22	1.35	11	NA	± 20 %	AverageRF
Endosulfan II	40	45	1.13	1.27	13	NA	± 20 %	AverageRF
Endrin	40	42	1.18	1.23	4	NA	± 20 %	AverageRF
Endrin Aldehyde	40	48	0.871	1.04	19	NA	± 20 %	AverageRF
Endrin Ketone	40	44	1.30	1.43	10	NA	± 20 %	AverageRF
Heptachlor	40	42	1.37	1.42	4	NA	± 20 %	AverageRF
Heptachlor Epoxide	40	43	1.35	1.46	9	NA	± 20 %	AverageRF
alpha-BHC	40	45	1.59	1.78	12	NA	± 20 %	AverageRF
beta-BHC	40	45	0.732	0.828	13	NA	± 20 %	AverageRF
delta-BHC	40	46	1.44	1.65	15	NA	± 20 %	AverageRF
gamma-BHC (Lindane)	40	44	1.47	1.63	11	NA	± 20 %	AverageRF
Methoxychlor	40	41	0.515	0.531	3	NA	± 20 %	AverageRF
Mirex	40	46	1.12	1.17	NA	14	± 20 %	Quadratic
Toxaphene {1}	1000	1100	0.0195	0.0206	6	NA	± 100 %	AverageRF
Toxaphene {2}	1000	1000	0.00767	0.00773	1	NA	± 100 %	AverageRF
Toxaphene {3}	1000	1100	0.0103	0.0110	7	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Calibration Date: 03/17/2014
Date Analyzed: 03/17/2014 -
 03/19/2014

Second Source Calibration Verification
Organochlorine Pesticides

Calibration Type: Internal Standard
Analysis Method: 8081B

Calibration ID: CAL13214
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Toxaphene {4}	1000	1000	0.0126	0.0125	0	NA	± 100 %	AverageRF
Toxaphene {5}	1000	1000	0.0234	0.0237	1	NA	± 100 %	AverageRF
Toxaphene {6}	1000	1100	0.0171	0.0181	6	NA	± 100 %	AverageRF
Toxaphene	1000	1000	NA	NA	NA	3	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014

Continuing Calibration Verification Summary
Organochlorine Pesticides

Calibration Type: External Standard
Analysis Method: 8081B

Calibration Date: 03/17/2014
Calibration ID: CAL13214
Analysis Lot: KWG1406791
Units: ug/L
Column ID: DB XLB

File ID: J:\GC23\DATA\062514\0625F002.D
 J:\GC23\DATA\062514\0625F003.D
 J:\GC23\DATA\062514\0625F004.D
 J:\GC23\DATA\062514\0625F005.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetrachloro-m-xylene	50	47		1.33	1.12	NA	-6	± 20 %	Quadratic
Decachlorobiphenyl	50	44		1.16	0.952	NA	-12	± 20 %	Quadratic
Aldrin	50	46		1.41	1.30	-7	NA	± 20 %	AverageRF
Chlordane {1}	500	510		0.0443	0.0415	NA	2	± 100 %	Quadratic
Chlordane {2}	500	520		0.0680	0.0705	4	NA	± 100 %	AverageRF
Chlordane {3}	500	480		0.0458	0.0405	NA	-3	± 100 %	Quadratic
Chlordane {4}	500	470		0.156	0.147	-6	NA	± 100 %	AverageRF
Chlordane {5}	500	450		0.116	0.104	-10	NA	± 100 %	AverageRF
Chlordane {6}	500	440		0.0839	0.0746	-11	NA	± 100 %	AverageRF
Chlordane	500	480		NA	NA	NA	-4	± 20 %	NA
alpha-Chlordane	50	46		1.29	1.19	-8	NA	± 20 %	AverageRF
gamma-Chlordane	50	46		1.31	1.20	-8	NA	± 20 %	AverageRF
Oxychlordane	50	45		1.07	0.965	-10	NA	± 20 %	AverageRF
cis-Nonachlor	50	46		1.28	1.18	-8	NA	± 20 %	AverageRF
trans-Nonachlor	50	45		1.28	1.16	-10	NA	± 20 %	AverageRF
2,4'-DDD	50	44		0.761	0.663	-13	NA	± 20 %	AverageRF
4,4'-DDD	50	49		1.03	0.997	-3	NA	± 20 %	AverageRF
2,4'-DDE	50	45		0.836	0.745	-11	NA	± 20 %	AverageRF
4,4'-DDE	50	47		1.26	1.17	-7	NA	± 20 %	AverageRF
2,4'-DDT	50	48		0.792	0.765	-4	NA	± 20 %	AverageRF
4,4'-DDT	50	52		0.914	0.946	3	NA	± 20 %	AverageRF
Dieldrin	50	48		1.25	1.20	-4	NA	± 20 %	AverageRF
Endosulfan I	50	46		1.17	1.08	-7	NA	± 20 %	AverageRF
Endosulfan II	50	48		1.08	1.05	-3	NA	± 20 %	AverageRF
Endrin	50	46		1.09	1.01	-7	NA	± 20 %	AverageRF
Endrin Aldehyde	50	59		0.709	0.843	19	NA	± 20 %	AverageRF
Endrin Ketone	50	53		1.21	1.29	6	NA	± 20 %	AverageRF
Heptachlor	50	47		1.38	1.30	-6	NA	± 20 %	AverageRF
Heptachlor Epoxide	50	46		1.30	1.20	-8	NA	± 20 %	AverageRF
alpha-BHC	50	50		1.54	1.54	0	NA	± 20 %	AverageRF
beta-BHC	50	52		0.638	0.668	5	NA	± 20 %	AverageRF
delta-BHC	50	51		1.38	1.42	3	NA	± 20 %	AverageRF
gamma-BHC (Lindane)	50	50		1.42	1.42	0	NA	± 20 %	AverageRF
Methoxychlor	50	51		0.485	0.498	3	NA	± 20 %	AverageRF
Mirex	50	46		0.956	0.873	-9	NA	± 20 %	AverageRF
Toxaphene {1}	1000	910		0.00661	0.00601	-9	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014

Continuing Calibration Verification Summary
Organochlorine Pesticides

Calibration Type: External Standard
Analysis Method: 8081B

Calibration Date: 03/17/2014
Calibration ID: CAL13214
Analysis Lot: KWG1406791
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Toxaphene {2}	1000	890		0.00974	0.00868	-11	NA	± 100 %	AverageRF
Toxaphene {3}	1000	960		0.0228	0.0219	-4	NA	± 100 %	AverageRF
Toxaphene {4}	1000	1000		0.0145	0.0147	1	NA	± 100 %	AverageRF
Toxaphene {5}	1000	1000		0.0148	0.0148	0	NA	± 100 %	AverageRF
Toxaphene {6}	1000	1300		0.0196	0.0246	26	NA	± 100 %	AverageRF
Toxaphene	1000	1000		NA	NA	NA	0	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014

Continuing Calibration Verification Summary
Organochlorine Pesticides

Calibration Type: External Standard
Analysis Method: 8081B

Calibration Date: 03/17/2014
Calibration ID: CAL13214
Analysis Lot: KWG1406791
Units: ug/L
Column ID: DB-35MS

File ID: J:\GC23\DATA\062514\0625F002.D\0625F002C.D
 J:\GC23\DATA\062514\0625F003.D\0625F003C.D
 J:\GC23\DATA\062514\0625F004.D\0625F004C.D
 J:\GC23\DATA\062514\0625F005.D\0625F005C.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetrachloro-m-xylene	50	50		1.32	1.32	0	NA	± 20 %	AverageRF
Decachlorobiphenyl	50	48		1.12	1.08	-4	NA	± 20 %	AverageRF
Aldrin	50	50		1.51	1.52	1	NA	± 20 %	AverageRF
Chlordane {1}	500	480		0.0411	0.0397	-3	NA	± 100 %	AverageRF
Chlordane {2}	500	530		0.0654	0.0698	7	NA	± 100 %	AverageRF
Chlordane {3}	500	500		0.146	0.147	1	NA	± 100 %	AverageRF
Chlordane {4}	500	500		0.0876	0.0870	-1	NA	± 100 %	AverageRF
Chlordane {5}	500	490		0.0490	0.0481	-2	NA	± 100 %	AverageRF
Chlordane {6}	500	490		0.119	0.117	-1	NA	± 100 %	AverageRF
Chlordane	500	500		NA	NA	NA	0	± 20 %	NA
alpha-Chlordane	50	50		1.38	1.37	0	NA	± 20 %	AverageRF
gamma-Chlordane	50	50		1.41	1.41	0	NA	± 20 %	AverageRF
Oxychlordane	50	47		1.14	1.07	-6	NA	± 20 %	AverageRF
cis-Nonachlor	50	48		1.44	1.37	-5	NA	± 20 %	AverageRF
trans-Nonachlor	50	47		1.40	1.32	-6	NA	± 20 %	AverageRF
2,4'-DDD	50	49		0.805	0.782	-3	NA	± 20 %	AverageRF
4,4'-DDD	50	54		1.06	1.16	9	NA	± 20 %	AverageRF
2,4'-DDE	50	52		0.884	0.919	4	NA	± 20 %	AverageRF
4,4'-DDE	50	54		1.36	1.46	7	NA	± 20 %	AverageRF
2,4'-DDT	50	53		0.855	0.901	5	NA	± 20 %	AverageRF
4,4'-DDT	50	52		1.01	1.05	5	NA	± 20 %	AverageRF
Dieldrin	50	50		1.37	1.38	1	NA	± 20 %	AverageRF
Endosulfan I	50	52		1.22	1.26	3	NA	± 20 %	AverageRF
Endosulfan II	50	53		1.13	1.19	5	NA	± 20 %	AverageRF
Endrin	50	50		1.18	1.17	-1	NA	± 20 %	AverageRF
Endrin Aldehyde	50	57		0.871	0.987	13	NA	± 20 %	AverageRF
Endrin Ketone	50	55		1.30	1.44	11	NA	± 20 %	AverageRF
Heptachlor	50	52		1.37	1.43	4	NA	± 20 %	AverageRF
Heptachlor Epoxide	50	50		1.35	1.36	1	NA	± 20 %	AverageRF
alpha-BHC	50	53		1.59	1.68	6	NA	± 20 %	AverageRF
beta-BHC	50	51		0.732	0.739	1	NA	± 20 %	AverageRF
delta-BHC	50	54		1.44	1.57	9	NA	± 20 %	AverageRF
gamma-BHC (Lindane)	50	52		1.47	1.54	5	NA	± 20 %	AverageRF
Methoxychlor	50	51		0.515	0.530	3	NA	± 20 %	AverageRF
Mirex	50	50		1.12	1.01	NA	-1	± 20 %	Quadratic
Toxaphene {1}	1000	1000		0.0195	0.0197	1	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/25/2014

Continuing Calibration Verification Summary
Organochlorine Pesticides

Calibration Type: External Standard
Analysis Method: 8081B

Calibration Date: 03/17/2014
Calibration ID: CAL13214
Analysis Lot: KWG1406791
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Toxaphene {2}	1000	1000		0.00767	0.00792	3	NA	± 100 %	AverageRF
Toxaphene {3}	1000	1100		0.0103	0.0113	9	NA	± 100 %	AverageRF
Toxaphene {4}	1000	970		0.0126	0.0122	-3	NA	± 100 %	AverageRF
Toxaphene {5}	1000	1100		0.0234	0.0257	10	NA	± 100 %	AverageRF
Toxaphene {6}	1000	1200		0.0171	0.0201	18	NA	± 100 %	AverageRF
Toxaphene	1000	1100		NA	NA	NA	6	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014

Continuing Calibration Verification Summary
Organochlorine Pesticides

Calibration Type: External Standard
Analysis Method: 8081B

Calibration Date: 03/17/2014
Calibration ID: CAL13214
Analysis Lot: KWG1406791
Units: ug/L
Column ID: DB XLB

File ID: J:\GC23\DATA\062514\0625F024.D
 J:\GC23\DATA\062514\0625F025.D
 J:\GC23\DATA\062514\0625F026.D
 J:\GC23\DATA\062514\0625F027.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetrachloro-m-xylene	50	47		1.33	1.13	NA	-5	± 20 %	Quadratic
Decachlorobiphenyl	50	46		1.16	0.982	NA	-9	± 20 %	Quadratic
Aldrin	50	46		1.41	1.29	-8	NA	± 20 %	AverageRF
Chlordane {1}	500	510		0.0443	0.0419	NA	3	± 100 %	Quadratic
Chlordane {2}	500	520		0.0680	0.0702	3	NA	± 100 %	AverageRF
Chlordane {3}	500	490		0.0458	0.0410	NA	-2	± 100 %	Quadratic
Chlordane {4}	500	480		0.156	0.150	-4	NA	± 100 %	AverageRF
Chlordane {5}	500	460		0.116	0.107	-7	NA	± 100 %	AverageRF
Chlordane {6}	500	450		0.0839	0.0760	-9	NA	± 100 %	AverageRF
Chlordane	500	490		NA	NA	NA	-3	± 20 %	NA
alpha-Chlordane	50	46		1.29	1.19	-8	NA	± 20 %	AverageRF
gamma-Chlordane	50	46		1.31	1.21	-8	NA	± 20 %	AverageRF
Oxychlordane	50	45		1.07	0.955	-11	NA	± 20 %	AverageRF
cis-Nonachlor	50	47		1.28	1.20	-7	NA	± 20 %	AverageRF
trans-Nonachlor	50	45		1.28	1.16	-10	NA	± 20 %	AverageRF
2,4'-DDD	50	46		0.761	0.700	-8	NA	± 20 %	AverageRF
4,4'-DDD	50	49		1.03	1.01	-1	NA	± 20 %	AverageRF
2,4'-DDE	50	45		0.836	0.754	-10	NA	± 20 %	AverageRF
4,4'-DDE	50	47		1.26	1.17	-7	NA	± 20 %	AverageRF
2,4'-DDT	50	48		0.792	0.755	-5	NA	± 20 %	AverageRF
4,4'-DDT	50	49		0.914	0.904	-1	NA	± 20 %	AverageRF
Dieldrin	50	47		1.25	1.18	-6	NA	± 20 %	AverageRF
Endosulfan I	50	47		1.17	1.10	-6	NA	± 20 %	AverageRF
Endosulfan II	50	49		1.08	1.06	-2	NA	± 20 %	AverageRF
Endrin	50	46		1.09	1.00	-8	NA	± 20 %	AverageRF
Endrin Aldehyde	50	60		0.709	0.854	20	NA	± 20 %	AverageRF
Endrin Ketone	50	54		1.21	1.30	7	NA	± 20 %	AverageRF
Heptachlor	50	47		1.38	1.29	-6	NA	± 20 %	AverageRF
Heptachlor Epoxide	50	46		1.30	1.20	-8	NA	± 20 %	AverageRF
alpha-BHC	50	49		1.54	1.52	-1	NA	± 20 %	AverageRF
beta-BHC	50	53		0.638	0.678	6	NA	± 20 %	AverageRF
delta-BHC	50	51		1.38	1.40	2	NA	± 20 %	AverageRF
gamma-BHC (Lindane)	50	50		1.42	1.41	-1	NA	± 20 %	AverageRF
Methoxychlor	50	51		0.485	0.494	2	NA	± 20 %	AverageRF
Mirex	50	47		0.956	0.893	-7	NA	± 20 %	AverageRF
Toxaphene {1}	1000	980		0.00661	0.00649	-2	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014

Continuing Calibration Verification Summary
Organochlorine Pesticides

Calibration Type: External Standard
Analysis Method: 8081B

Calibration Date: 03/17/2014
Calibration ID: CAL13214
Analysis Lot: KWG1406791
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Toxaphene {2}	1000	950		0.00974	0.00928	-5	NA	± 100 %	AverageRF
Toxaphene {3}	1000	960		0.0228	0.0220	-4	NA	± 100 %	AverageRF
Toxaphene {4}	1000	980		0.0145	0.0142	-2	NA	± 100 %	AverageRF
Toxaphene {5}	1000	1000		0.0148	0.0152	3	NA	± 100 %	AverageRF
Toxaphene {6}	1000	1200		0.0196	0.0242	23	NA	± 100 %	AverageRF
Toxaphene	1000	1000		NA	NA	NA	2	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014

Continuing Calibration Verification Summary
Organochlorine Pesticides

Calibration Type: External Standard
Analysis Method: 8081B

Calibration Date: 03/17/2014
Calibration ID: CAL13214
Analysis Lot: KWG1406791
Units: ug/L
Column ID: DB-35MS

File ID: J:\GC23\DATA\062514\0625F024.D\0625F024C.D
 J:\GC23\DATA\062514\0625F025.D\0625F025C.D
 J:\GC23\DATA\062514\0625F026.D\0625F026C.D
 J:\GC23\DATA\062514\0625F027.D\0625F027C.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetrachloro-m-xylene	50	55		1.32	1.45	10	NA	± 20 %	AverageRF
Decachlorobiphenyl	50	50		1.12	1.13	1	NA	± 20 %	AverageRF
Aldrin	50	55		1.51	1.66	9	NA	± 20 %	AverageRF
Chlordane {1}	500	530		0.0411	0.0434	6	NA	± 100 %	AverageRF
Chlordane {2}	500	540		0.0654	0.0707	8	NA	± 100 %	AverageRF
Chlordane {3}	500	530		0.146	0.156	7	NA	± 100 %	AverageRF
Chlordane {4}	500	520		0.0876	0.0911	4	NA	± 100 %	AverageRF
Chlordane {5}	500	530		0.0490	0.0515	5	NA	± 100 %	AverageRF
Chlordane {6}	500	520		0.119	0.123	3	NA	± 100 %	AverageRF
Chlordane	500	530		NA	NA	NA	5	± 20 %	NA
alpha-Chlordane	50	53		1.38	1.45	5	NA	± 20 %	AverageRF
gamma-Chlordane	50	54		1.41	1.52	8	NA	± 20 %	AverageRF
Oxychlordane	50	51		1.14	1.16	2	NA	± 20 %	AverageRF
cis-Nonachlor	50	51		1.44	1.46	1	NA	± 20 %	AverageRF
trans-Nonachlor	50	51		1.40	1.42	1	NA	± 20 %	AverageRF
2,4'-DDD	50	51		0.805	0.820	2	NA	± 20 %	AverageRF
4,4'-DDD	50	56		1.06	1.18	11	NA	± 20 %	AverageRF
2,4'-DDE	50	56		0.884	0.990	12	NA	± 20 %	AverageRF
4,4'-DDE	50	58		1.36	1.57	15	NA	± 20 %	AverageRF
2,4'-DDT	50	49		0.855	0.831	-3	NA	± 20 %	AverageRF
4,4'-DDT	50	44		1.01	0.896	-11	NA	± 20 %	AverageRF
Dieldrin	50	53		1.37	1.46	6	NA	± 20 %	AverageRF
Endosulfan I	50	55		1.22	1.34	10	NA	± 20 %	AverageRF
Endosulfan II	50	55		1.13	1.24	10	NA	± 20 %	AverageRF
Endrin	50	49		1.18	1.17	-1	NA	± 20 %	AverageRF
Endrin Aldehyde	50	59		0.871	1.03	18	NA	± 20 %	AverageRF
Endrin Ketone	50	56		1.30	1.45	12	NA	± 20 %	AverageRF
Heptachlor	50	52		1.37	1.41	3	NA	± 20 %	AverageRF
Heptachlor Epoxide	50	54		1.35	1.45	8	NA	± 20 %	AverageRF
alpha-BHC	50	55		1.59	1.76	10	NA	± 20 %	AverageRF
beta-BHC	50	54		0.732	0.790	8	NA	± 20 %	AverageRF
delta-BHC	50	57		1.44	1.63	13	NA	± 20 %	AverageRF
gamma-BHC (Lindane)	50	54		1.47	1.57	7	NA	± 20 %	AverageRF
Methoxychlor	50	46		0.515	0.471	-9	NA	± 20 %	AverageRF
Mirex	50	53		1.12	1.07	NA	6	± 20 %	Quadratic
Toxaphene {1}	1000	1100		0.0195	0.0210	8	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818
Date Analyzed: 06/26/2014

Continuing Calibration Verification Summary
Organochlorine Pesticides

Calibration Type: External Standard
Analysis Method: 8081B

Calibration Date: 03/17/2014
Calibration ID: CAL13214
Analysis Lot: KWG1406791
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Toxaphene {2}	1000	1000		0.00767	0.00781	2	NA	± 100 %	AverageRF
Toxaphene {3}	1000	1200		0.0103	0.0122	18	NA	± 100 %	AverageRF
Toxaphene {4}	1000	980		0.0126	0.0123	-2	NA	± 100 %	AverageRF
Toxaphene {5}	1000	1100		0.0234	0.0251	7	NA	± 100 %	AverageRF
Toxaphene {6}	1000	1200		0.0171	0.0209	23	NA	± 100 %	AverageRF
Toxaphene	1000	1100		NA	NA	NA	9	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818

Analysis Run Log
Organochlorine Pesticides

Analysis Method: 8081B

Analysis Lot: KWG1406791
Instrument ID: GC23
Column: DB XLB

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0625F001.D	Performance Evaluation Mixture	KWG1406791-2	6/25/2014	13:30		6/25/2014	13:52
0625F002.D	Continuing Calibration Verification	KWG1406791-3	6/25/2014	14:30		6/25/2014	14:52
0625F003.D	Continuing Calibration Verification	KWG1406791-3	6/25/2014	14:59		6/25/2014	15:21
0625F004.D	Continuing Calibration Verification	KWG1406791-3	6/25/2014	15:29		6/25/2014	15:51
0625F005.D	Continuing Calibration Verification	KWG1406791-3	6/25/2014	15:59		6/25/2014	16:21
0625F006.D	Instrument Blank	KWG1406791-1	6/25/2014	16:29		6/25/2014	16:51
0625FX08.D	ZZZZZZ	ZZZZZZ	6/25/2014	16:59		6/25/2014	17:21
0625F008.D	ZZZZZZ	ZZZZZZ	6/25/2014	17:28		6/25/2014	17:50
0625F009.D	ZZZZZZ	ZZZZZZ	6/25/2014	17:58		6/25/2014	18:20
0625F010.D	ZZZZZZ	ZZZZZZ	6/25/2014	18:28		6/25/2014	18:50
0625F011.D	ZZZZZZ	ZZZZZZ	6/25/2014	18:58		6/25/2014	19:20
0625F012.D	ZZZZZZ	ZZZZZZ	6/25/2014	19:28		6/25/2014	19:50
0625F013.D	ZZZZZZ	ZZZZZZ	6/25/2014	19:58		6/25/2014	20:20
0625F014.D	ZZZZZZ	ZZZZZZ	6/25/2014	20:27		6/25/2014	20:49
0625F015.D	SYC14-SW	K1405818-001	6/25/2014	20:57		6/25/2014	21:19
0625F016.D	Lab Control Sample	KWG1405574-1	6/25/2014	21:27		6/25/2014	21:49
0625F017.D	Duplicate Lab Control Sample	KWG1405574-2	6/25/2014	21:56		6/25/2014	22:18
0625F018.D	Lab Control Sample	KWG1405574-1	6/25/2014	22:26		6/25/2014	22:48
0625F019.D	Duplicate Lab Control Sample	KWG1405574-2	6/25/2014	22:55		6/25/2014	23:17
0625F020.D	Lab Control Sample	KWG1405574-1	6/25/2014	23:25		6/25/2014	23:47
0625F021.D	Duplicate Lab Control Sample	KWG1405574-2	6/25/2014	23:54		6/26/2014	00:16
0625F022.D	Method Blank	KWG1405574-7	6/26/2014	00:24		6/26/2014	00:46
0625F023.D	Performance Evaluation Mixture	KWG1406791-5	6/26/2014	00:53		6/26/2014	01:15
0625F024.D	Continuing Calibration Verification	KWG1406791-6	6/26/2014	01:23		6/26/2014	01:45
0625F025.D	Continuing Calibration Verification	KWG1406791-6	6/26/2014	01:53		6/26/2014	02:15
0625F026.D	Continuing Calibration Verification	KWG1406791-6	6/26/2014	02:23		6/26/2014	02:45
0625F027.D	Continuing Calibration Verification	KWG1406791-6	6/26/2014	02:52		6/26/2014	03:14
0625F028.D	Instrument Blank	KWG1406791-4	6/26/2014	03:22		6/26/2014	03:44
0625F029.D	SYC14-AC Elutriate	K1405818-002	6/26/2014	03:51		6/26/2014	04:13
0625F030.D	SYC14-AC ElutriateMS	KWG1406763-1	6/26/2014	04:21		6/26/2014	04:43
0625F031.D	SYC14-AC ElutriateDMS	KWG1406763-2	6/26/2014	04:51		6/26/2014	05:13
0625F032.D	SYC14-AC ElutriateMS	KWG1406763-1	6/26/2014	05:20		6/26/2014	05:42
0625F033.D	SYC14-AC ElutriateDMS	KWG1406763-2	6/26/2014	05:50		6/26/2014	06:12
0625F034.D	SYC14-AC ElutriateMS	KWG1406763-1	6/26/2014	06:19		6/26/2014	06:41

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103

Service Request: K1405818

Analysis Run Log
Organochlorine Pesticides

Analysis Method: 8081B

Analysis Lot: KWG1406791
Instrument ID: GC23
Column: DB XLB

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0625F035.D	SYC14-AC ElutriateDMS	KWG1406763-2	6/26/2014	06:49		6/26/2014	07:11
0625F036.D	SYC14-TB1 Elutriate	K1405818-003	6/26/2014	07:18		6/26/2014	07:40
0625F037.D	SYC14-TB2 Elutriate	K1405818-004	6/26/2014	07:48		6/26/2014	08:10
0625F039.D	ZZZZZZ	ZZZZZZ	6/26/2014	08:47		6/26/2014	09:09
0625F040.D	ZZZZZZ	ZZZZZZ	6/26/2014	09:17		6/26/2014	09:39
0625F041.D	ZZZZZZ	ZZZZZZ	6/26/2014	09:46		6/26/2014	10:08
0625F042.D	ZZZZZZ	ZZZZZZ	6/26/2014	10:15		6/26/2014	10:37
0625F043.D	ZZZZZZ	ZZZZZZ	6/26/2014	10:45		6/26/2014	11:07
0625F044.D	Lab Control Sample	KWG1406763-3	6/26/2014	11:15		6/26/2014	11:37
0625F045.D	Lab Control Sample	KWG1406763-3	6/26/2014	11:45		6/26/2014	12:07
0625F046.D	Lab Control Sample	KWG1406763-3	6/26/2014	12:14		6/26/2014	12:36
0625F047.D	Method Blank	KWG1406763-10	6/26/2014	12:44		6/26/2014	13:06

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/11/2014

Extraction Prep Log
Organochlorine Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8081B

Extraction Lot: KWG1405574
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
SYC14-SW	K1405818-001	06/04/14	06/10/14	1000mL	2mL	NA	
Method Blank	KWG1405574-7	NA	NA	1000mL	2mL	NA	
Lab Control Sample	KWG1405574-1	NA	NA	1000mL	2mL	NA	
Duplicate Lab Control Sample	KWG1405574-2	NA	NA	1000mL	2mL	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Extracted: 06/16/2014

Extraction Prep Log
Organochlorine Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8081B

Extraction Lot: KWG1406763
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
SYC14-AC Elutriate	K1405818-002	06/12/14	06/12/14	970mL	2mL	NA	
SYC14-TB1 Elutriate	K1405818-003	06/12/14	06/12/14	970mL	2mL	NA	
SYC14-TB2 Elutriate	K1405818-004	06/12/14	06/12/14	980mL	2mL	NA	
Method Blank	KWG1406763-10	NA	NA	1000mL	2mL	NA	
SYC14-AC ElutriateMS	KWG1406763-1	06/12/14	06/12/14	990mL	2mL	NA	
SYC14-AC ElutriateDMS	KWG1406763-2	06/12/14	06/12/14	990mL	2mL	NA	
Lab Control Sample	KWG1406763-3	NA	NA	1000mL	2mL	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Confirmation Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/04/2014
Date Received: 06/10/2014
Date Extracted: 06/11/2014

Organochlorine Pesticides

Sample Name: SYC14-SW
Lab Code: K1405818-001
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
gamma-Chlordane	0.010	0.00032	0.00037	0.00060	47.4	JP	1	06/25/14
4,4'-DDE	0.010	0.00036	0.00069	0.0015	74.0	JP	1	06/25/14

Confirmation Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/12/2014
Date Received: 06/12/2014
Date Extracted: 06/16/2014

Organochlorine Pesticides

Sample Name: SYC14-AC Elutriate
Lab Code: K1405818-002
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	0.011	0.00038	0.0017	0.0021	21.1	J	1	06/26/14

Confirmation Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: 06/12/2014
Date Received: 06/12/2014
Date Extracted: 06/16/2014

Organochlorine Pesticides

Sample Name: SYC14-TB2 Elutriate
Lab Code: K1405818-004
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Endrin Aldehyde	0.011	0.00047	0.00048	0.00095	65.7	JP	1	06/26/14

Confirmation Results

Client: Anamar Environmental Consulting, Inc.
Project: Shipyard Creek MPRSA S103
Sample Matrix: Water

Service Request: K1405818
Date Collected: NA
Date Received: NA
Date Extracted: 06/16/2014

Organochlorine Pesticides

Sample Name: Method Blank
Lab Code: KWG1406763-10
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Endosulfan II	0.010	0.00040	0.00048	0.0012	85.7	JP	1	06/26/14



Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com



General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Work Request # ^{Original} ~~0813~~ 5835 5883

Tier: V I II

Date Analyzed: 6-13-2014 MK 6/16/14

Analyst: MK

Analysis: SAL

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate? yes/no/NA
- 2. Holding times met for all analyses and for all samples? yes/no/NA
- 3. Are calculations correct? yes/no/NA
- 4. Is the reporting basis correct? (Dry Weight) yes/no/NA
- 5. All quality control criteria met? yes/no
- 6. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
- 7. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
- 8. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
- 9. Are results for methods blanks all ND? yes/no/NA
- 10. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
- 11. Are all exceptions explained? yes/no/NA
- 12. Have all applicable service requests been reviewed? yes/no/NA
- 13. Are all samples labeled correctly? yes/no/NA
- 14. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V) yes/no/NA
- 15. Are detection limits and units reported correctly? yes/no/NA
- 16. Is the unused space on the benchsheet crossed out? yes/no/NA
- 17. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

Push

Final Approved by: *Flawless*

Date: 06/16/14

DQR/REPORT

Analytical Results Summary

Instrument Name: K-CondMeter-01

Analyst: MKANALY

Analysis Lot: 397062

Method/Testcode: SM 2520 B/Salinity

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL % Rec	% RSD	Date Analyzed	QC? Tier
405818-001	Salinity	N/A		Water	27.50 g/L	10 mL	27.5 g/Kg	1		2.0		6/13/14 11:45:00	N V
405855-001	Salinity	N/A		Water	0.40 g/L	10 mL	2.0 g/Kg	1		2.0		6/13/14 11:45:00	N I
405883-001	Salinity	N/A		Water	35.20 g/L	10 mL	35.2 g/Kg	1		2.0		6/13/14 11:45:00	N II
405883-002	Salinity	N/A		Water	35.00 g/L	10 mL	35.0 g/Kg	1		2.0		6/13/14 11:45:00	N II
405883-003	Salinity	N/A		Water	34.60 g/L	10 mL	34.6 g/Kg	1		2.0		6/13/14 11:45:00	N II
1406571-01	Salinity	DUP	K1405855-001	Water	0.30 g/L	10 mL	2.0 g/Kg	1		2.0	NC	6/13/14 11:45:00	N I
1406571-02	Salinity	MB		Water	0.00 g/L	10 mL	2.0 g/Kg	1		2.0		6/13/14 11:45:00	N V
1406571-03	Salinity	LCS		Water	16.80 g/L	10 mL	16.8 g/Kg	1		2.0	96	6/13/14 11:45:00	N V

06/16/14



Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

COLUMBIA ANALYTICAL SERVICES, INC.

Service Request: K1400847,K1400833,K1401128 Method: SM 2520B

Analysis For: Salinity

TEMP:

	Sample #	Reading g/kg		Sample #	Reading g/kg	
		Meter Value	Reported Value		Meter Value	Reported Value
24.59	MB	0	0			
24.69	STD	34.5	34.5			
25.12	LCS	16.8	16.8			
24.56	K1405855-001	0.4	0.4			
24.81	K1405855-001D	0.3	0.3			
24.64	K1405883-001	35.2	35.2			
24.63	K1405883-002	35	35			
24.51	K1405883-003	34.6	34.6			
24.64	K1405818-001	27.5	27.5			
24.53	MB	0	0			
24.64	STD	34.4	34.4			
		0	0			
		0	0			
		0	0			
		0	0			
		0	0			
		0	0			
		0	0			
		0	0			
		0	0			
		0	0			
		0	0			
		0	0			

STD = 35.0 g/kg ID# = COND/1-39AA %REC=98/98
 LCS = 17.5 g/kg ID# = COND/1-39-BB %RE: 96

Water Bath ID# K-WB-01 Thermometer ID# L82605
 CELL CONSTANT = 1.089

PROBE ID: P-2 K-COND METER #1

Analyst: MK	Date: 6/13/2014	11:45
Reviewed By: <i>[Signature]</i>	Date: 06/16/14	

Original
 Work Request # (K5650) K5723 K5756 K5804 K5818 K5853
 Tier: II II II II I II
 Date Analyzed: 06/13/14
 Analyst: Fuller
 Analysis: NH₃ - N - SM 4500 - NH₃ G

397124

DATA QUALITY REPORT
 INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no
6. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
7. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
8. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
9. Are results for methods blanks all ND? yes/no/NA
10. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
11. Are all exceptions explained? yes/no/NA
12. Have all applicable service requests been reviewed? yes/no/NA
13. Are all samples labeled correctly? yes/no/NA
14. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V) yes/no/NA
15. Are detection limits and units reported correctly? yes/no/NA
16. Is the unused space on the benchsheet crossed out? yes/no/NA
17. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

Final Approved by: [Signature] Date: 6/16/14 DQREPORT

Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot: 397124

Method/Testcode: SM 4500-NH3 G/Ammonia

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC2 Tier
1405650-001	Ammonia as Nitrogen	N/A		Water	0.15 mg/L	5 mL	0.150 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405650-002	Ammonia as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.025 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405650-003	Ammonia as Nitrogen	N/A		Water	0.02 mg/L	5 mL	0.021 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405723-001	Ammonia as Nitrogen	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405723-002	Ammonia as Nitrogen	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405723-003	Ammonia as Nitrogen	N/A		Water	0.10 mg/L	5 mL	0.104 mg/L	1	0.020	0.050			6/13/14 11:39:00	Y
1405723-004	Ammonia as Nitrogen	N/A		Water	0.02 mg/L	5 mL	0.024 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-001	Ammonia as Nitrogen	N/A		Water	0.60 mg/L	5 mL	0.602 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-002	Ammonia as Nitrogen	N/A		Water	4.95 mg/L	5 mL	4.95 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-003	Ammonia as Nitrogen	N/A		Water	4.13 mg/L	5 mL	4.13 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-004	Ammonia as Nitrogen	N/A		Water	4.58 mg/L	5 mL	4.58 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-005	Ammonia as Nitrogen	N/A		Water	1.37 mg/L	5 mL	2.74 mg/L	2	0.04	0.10			6/13/14 11:39:00	N
1405756-007	Ammonia as Nitrogen	N/A		Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-009	Ammonia as Nitrogen	N/A		Water	0.07 mg/L	5 mL	0.072 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-010	Ammonia as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-012	Ammonia as Nitrogen	N/A		Water	0.34 mg/L	5 mL	0.341 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-013	Ammonia as Nitrogen	N/A		Water	0.38 mg/L	5 mL	0.378 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-014	Ammonia as Nitrogen	N/A		Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-015	Ammonia as Nitrogen	N/A		Water	0.09 mg/L	5 mL	0.092 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-016	Ammonia as Nitrogen	N/A		Water	0.86 mg/L	5 mL	0.865 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-017	Ammonia as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-018	Ammonia as Nitrogen	N/A		Water	0.05 mg/L	5 mL	0.053 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-019	Ammonia as Nitrogen	N/A		Water	0.04 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-020	Ammonia as Nitrogen	N/A		Water	1.29 mg/L	5 mL	6.43 mg/L	5	0.10	0.25			6/13/14 11:39:00	N
1405756-021	Ammonia as Nitrogen	N/A		Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-022	Ammonia as Nitrogen	N/A		Water	0.04 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-023	Ammonia as Nitrogen	N/A		Water	0.49 mg/L	5 mL	0.486 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-024	Ammonia as Nitrogen	N/A		Water	0.04 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-025	Ammonia as Nitrogen	N/A		Water	1.06 mg/L	5 mL	5.32 mg/L	5	0.10	0.25			6/13/14 11:39:00	N
1405756-026	Ammonia as Nitrogen	N/A		Water	2.39 mg/L	5 mL	2.39 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405756-027	Ammonia as Nitrogen	N/A		Water	2.44 mg/L	5 mL	2.44 mg/L	100	2.0	5.0			6/13/14 11:39:00	N
1405804-001	Ammonia as Nitrogen	N/A		Water	0.04 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405804-002	Ammonia as Nitrogen	N/A		Water	0.42 mg/L	5 mL	0.418 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405818-001	Ammonium	N/A		Water	0.11 mg/L	5 mL	0.114 mg/L	1	0.020	0.050			6/13/14 11:39:00	N
1405818-002	Ammonium	N/A		Water	2.86 mg/L	5 mL	28.6 mg/L	10	0.20	0.50			6/13/14 11:39:00	Y
1405818-003	Ammonium	N/A		Water	0.90 mg/L	5 mL	44.8 mg/L	50	1.0	2.5			6/13/14 11:39:00	Y

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Printed 6/13/14 16:34

Results Summary

06/13/14
THANGANU

Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot: 397124

Method/Testcode: SM 4500-NH3 G/Ammonium T

Ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1405818-004	Ammonium	N/A		Water	0.86 mg/L	5 mL	43.1 mg/L	50	1.0	2.5			6/13/14 11:39:00	N V
1405853-001	Ammonium	N/A		Water	0.04 mg/L	5 mL	0.043 mg/L	1	0.020	0.050			6/13/14 11:39:00	N H
Q1406580-01	Ammonia as Nitrogen	MB		Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406580-02	Ammonia as Nitrogen	LCS		Water	2.23 mg/L	5 mL	11.1 mg/L	5	0.10	0.25	103	<1	6/13/14 11:39:00	N V
Q1406580-03	Ammonia as Nitrogen	MS	K1405650-001	Water	2.25 mg/L	5 mL	2.25 mg/L	1	0.020	0.050	105		6/13/14 11:39:00	N V
Q1406580-04	Ammonia as Nitrogen	DMS	K1405650-001	Water	2.22 mg/L	5 mL	2.22 mg/L	1	0.020	0.050	104	<1	6/13/14 11:39:00	N V
Q1406580-05	Ammonia as Nitrogen	DUP	K1405650-001	Water	0.15 mg/L	5 mL	0.149 mg/L	1	0.020	0.050	102	<1	6/13/14 11:39:00	N V
Q1406580-06	Ammonia as Nitrogen	MS	K1405723-003	Water	2.15 mg/L	5 mL	2.15 mg/L	1	0.020	0.050	101	<1	6/13/14 11:39:00	N V
Q1406580-07	Ammonia as Nitrogen	DMS	K1405723-003	Water	2.12 mg/L	5 mL	2.12 mg/L	1	0.020	0.050	101	<1	6/13/14 11:39:00	N V
Q1406580-08	Ammonia as Nitrogen	DUP	K1405723-003	Water	0.10 mg/L	5 mL	0.103 mg/L	1	0.020	0.050	103	<1	6/13/14 11:39:00	N V
Q1406582-01	Ammonia as Nitrogen	MB		Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N H
Q1406582-01	Ammonium	MB		Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N H
Q1406582-02	Ammonia as Nitrogen	LCS		Water	2.23 mg/L	5 mL	11.1 mg/L	5	0.10	0.25	103	<1	6/13/14 11:39:00	N H
Q1406582-02	Ammonium	LCS		Water	2.23 mg/L	5 mL	11.1 mg/L	5	0.10	0.25	103	<1	6/13/14 11:39:00	N H
Q1406582-03	Ammonia as Nitrogen	MS	K1405756-014	Water	2.04 mg/L	5 mL	2.04 mg/L	1	0.020	0.050	102		6/13/14 11:39:00	N H
Q1406582-04	Ammonia as Nitrogen	DMS	K1405756-014	Water	2.07 mg/L	5 mL	2.07 mg/L	1	0.020	0.050	103	<1	6/13/14 11:39:00	N H
Q1406582-05	Ammonia as Nitrogen	DUP	K1405756-014	Water	0.02 mg/L	5 mL	0.023 mg/L	1	0.020	0.050		NC	6/13/14 11:39:00	N H
Q1406582-06	Ammonium	MS	K1405818-002	Water	2.54 mg/L	5 mL	127 mg/L	50	1.0	2.5	98	<1	6/13/14 11:39:00	N V
Q1406582-07	Ammonium	DMS	K1405818-002	Water	2.55 mg/L	5 mL	127 mg/L	50	1.0	2.5	99	<1	6/13/14 11:39:00	N V
Q1406582-08	Ammonium	DUP	K1405818-002	Water	2.84 mg/L	5 mL	28.4 mg/L	10	0.20	0.50		<1	6/13/14 11:39:00	N V
Q1406583-01	Ammonia as Nitrogen	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1					6/13/14 11:39:00	N V
Q1406583-01	Ammonium	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1					6/13/14 11:39:00	N V
Q1406583-02	Ammonia as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1					6/13/14 11:39:00	N V
Q1406583-02	Ammonium	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1					6/13/14 11:39:00	N V
Q1406583-03	Ammonia as Nitrogen	CCV		Water	1.94 mg/L	5 mL	1.94 mg/L	1					6/13/14 11:39:00	N V
Q1406583-03	Ammonium	CCV		Water	1.94 mg/L	5 mL	1.94 mg/L	1					6/13/14 11:39:00	N V
Q1406583-04	Ammonia as Nitrogen	CCV		Water	1.96 mg/L	5 mL	1.96 mg/L	1					6/13/14 11:39:00	N V
Q1406583-04	Ammonium	CCV		Water	1.96 mg/L	5 mL	1.96 mg/L	1					6/13/14 11:39:00	N V
Q1406583-05	Ammonia as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1					6/13/14 11:39:00	N V
Q1406583-05	Ammonium	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1					6/13/14 11:39:00	N V
Q1406583-06	Ammonia as Nitrogen	CCV		Water	1.96 mg/L	5 mL	1.96 mg/L	1					6/13/14 11:39:00	N V
Q1406583-06	Ammonium	CCV		Water	1.96 mg/L	5 mL	1.96 mg/L	1					6/13/14 11:39:00	N V
Q1406583-07	Ammonia as Nitrogen	CCV		Water	1.98 mg/L	5 mL	1.98 mg/L	1					6/13/14 11:39:00	N V
Q1406583-07	Ammonium	CCV		Water	1.98 mg/L	5 mL	1.98 mg/L	1					6/13/14 11:39:00	N V
Q1406583-08	Ammonia as Nitrogen	CCV		Water	1.95 mg/L	5 mL	1.95 mg/L	1					6/13/14 11:39:00	N V
Q1406583-08	Ammonium	CCV		Water	1.95 mg/L	5 mL	1.95 mg/L	1					6/13/14 11:39:00	N V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-FIA-01 Analyst: THANGANU Analysis Lot: 397124 Method/Testcode: SM 4500-NH3 G/Ammonia

ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
Q1406583-09	Ammonia as Nitrogen	CCV	Water	Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-09	Ammonium	CCV	Water	Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-10	Ammonia as Nitrogen	CCV	Water	Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-10	Ammonium	CCV	Water	Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-11	Ammonia as Nitrogen	CCB	Water	Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-11	Ammonium	CCB	Water	Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-12	Ammonia as Nitrogen	CCB	Water	Water	0.02 mg/L	5 mL	0.021 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-12	Ammonium	CCB	Water	Water	0.02 mg/L	5 mL	0.021 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-13	Ammonia as Nitrogen	CCB	Water	Water	0.03 mg/L	5 mL	0.033 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-13	Ammonium	CCB	Water	Water	0.03 mg/L	5 mL	0.033 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-14	Ammonia as Nitrogen	CCB	Water	Water	0.03 mg/L	5 mL	0.029 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-14	Ammonium	CCB	Water	Water	0.03 mg/L	5 mL	0.029 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-15	Ammonia as Nitrogen	CCB	Water	Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-15	Ammonium	CCB	Water	Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-16	Ammonia as Nitrogen	CCB	Water	Water	0.01 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-16	Ammonium	CCB	Water	Water	0.01 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-17	Ammonia as Nitrogen	CCB	Water	Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-17	Ammonium	CCB	Water	Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-18	Ammonia as Nitrogen	CCB	Water	Water	0.02 mg/L	5 mL	0.022 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-18	Ammonium	CCB	Water	Water	0.02 mg/L	5 mL	0.022 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-19	Ammonia as Nitrogen	CCB	Water	Water	0.02 mg/L	5 mL	0.025 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-19	Ammonium	CCB	Water	Water	0.02 mg/L	5 mL	0.025 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-20	Ammonia as Nitrogen	CCB	Water	Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V
Q1406583-20	Ammonium	CCB	Water	Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.020	0.050			6/13/14 11:39:00	N V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

SEAL Analytical

Application Lab

Name of Run : 140613B
 Date of Report : 6/13/2014
 Date of Run : 6/13/2014
 Operator :
 Comment :

Name of Analysis : NH3
 System No. : 1
 Type of System : AA3 HR
 Start/Stop time : 11:39 - 14:06

Channel : 2
 Method : Method 2
 Unit : mg/L
 Calibr. Fit : Linear
 Corr. Coeff. (r) : 0.9999
 Base : -9587
 Gain : 17
 Sensitivity : 0.4887
 Sample Limit 1 :
 Sample Limit 2 :

LCS ID# : Gen-PO4/5-95-7 T.V.=10.8
Spike ID# : 11-Gen-010-10-B T.V.=2.00/100
Curve, CCV ID# : 11-Gen-010-28-C T.V.=200
Syringe Lot# : 4086166
Fisher Lot# : 125063

Pk	Cup	Sample ID	Value
0	0	B Baseline	0.0093
1	1	P Primer	5.0553
2	1	D Drift	5.0169
3	1	C 5.0	5.0198
4	2	C 2.0	1.9490
5	3	C 0.50	0.4976
6	4	C 0.05	0.0679
7	5	C 0	0.0158
8	1	H1 High	5.0636
9	5	L1 Low	0.0204
10	5	L1 Low	0.0214
11	2	QC1 CCV1	1.9874
12	5	QC2 CCB1	0.0182
13	6	QC1 MB1	0.0165
14	10	QC3 LCS*5	2.2269
15	11	S MBMS	1.9874
16	12	S k1405650-001	0.1503
17	13	S k1405650-001d	0.1494
18	14	S k1405650-001ms	2.2487
19	15	S k1405650-001msd	2.2214
20	16	S k1405650-002	0.0252
21	17	S k1405650-003	0.0212
22	18	S k1405723-001	0.0116
23	2	QC1 CCV2	1.9731
24	5	QC2 CCB2	0.0210
25	19	S k1405723-002	0.0133
26	20	S k1405723-003	0.1035
27	21	S k1405723-003d	0.1026
28	22	S k1405723-003ms	2.1484
29	23	S k1405723-003msd	2.1243
30	24	S k1405723-004	0.0237
31	25	S k1405756-001	0.6017

99% (T.V.=2.00)

06/13/14
Fischer

32	26	S	k1405756-002	4.9515
33	27	S	k1405756-003	4.1309
34	28	S	k1405756-004	4.5792
35	2	QC1	CCV3	1.9448
36	5	QC2	CCB3	0.0325
37	29	S	k1405756-005*50	0.0772
38	30	S	k1405756-007	0.0241
39	31	S	k1405756-009	0.0724
40	32	S	k1405756-010	0.0326
41	33	S	k1405756-012	0.3412
42	34	S	k1405756-013	0.3776
43	35	S	k1405756-014	0.0181
44	36	S	k1405756-014d	0.0234
45	37	S	k1405756-014ms	2.0399
46	38	S	k1405756-014msd	2.0669
47	2	QC1	CCV4	1.9645
48	5	QC2	CCB4	0.0288
49	10	QC3	LCS2*5	2.2269
50	6	QC2	MB2	0.0173
51	39	S	k1405756-015	0.0920
52	40	S	k1405756-016	0.8645
53	41	S	k1405756-017*50	0.0470
54	42	S	k1405756-018*50	0.0168
55	0	B	Baseline	0.0093
56	43	S	k1405756-019	0.0397
57	44	S	k1405756-020	6.4311
58	45	S	k1405756-021	0.0313
59	2	QC1	CCV5	1.9747
60	5	QC2	CCB5	0.0177
61	46	S	k1405756-022	0.0354
62	47	S	k1405756-023	0.4862
63	48	S	k1405756-024	0.0386
64	49	S	k1405756-025	5.1669
65	50	S	k1405756-026	2.3119
66	51	S	k1405756-027	62.7807
67	7	S	rinse	1.8610
68	52	S	k1405804-001	0.2957
69	53	S	k1405804-002	0.4623
70	54	S	rinse	0.0350
71	2	QC1	CCV6	1.9635
72	5	QC2	CCB6	0.0086
73	55	S	k1405831-001	3.7999
74	56	S	k1405831-001d	3.7813
75	57	S	k1405831-001ms	4.5436
76	58	S	k1405831-001msd	6.9276
77	59	S	k1405853-001	0.1862
78	60	S	k1405818-001	0.2651
79	61	S	k1405818-002	27.9619
80	62	S	k1405818-002d	27.6394
81	63	S	k1405818-002ms	28.9804
82	54	S	rinse	0.1917
83	2	QC1	CCV7	2.1190
84	5	QC2	CCB7	0.1613
85	64	S	k1405818-002msd	29.2999
86	65	S	k1405818-003	62.2689
87	66	S	k1405818-004	61.8037
88	7	S		-0.1200

NR

} NR

} NR

} NR

} NR

(K5831 affected my run)
(matrix interference)

NR

o 06/13/14

Jumper

89	67	S	k1405756-005 *2	1.5005
90	68	S	k1405756-017	0.1666
91	69	S	k1405756-018	0.1702
92	70	S	k1405756-020*5	1.3775
93	45	S	k1405756-021	0.1207
94	2	QC1	CCV8	2.0609
95	5	QC2	CCB8	0.1120
96	50	S	k1405756-026	2.4573
97	71	S	k1405756-025*5	1.1022
98	7	S		0.0974
99	52	S	k1405804-001	0.1105
100	53	S	k1405804-002	0.4893
101	72	S	k1405756-027-200	1.3047
102	73	S	k1405756-027*100	2.5487
103	74	S	k1405756-027*50	2.7717
104	7	S		0.0838
105	7	S		0.0742
106	2	QC1	CCV9	2.0229
107	5	QC2	CCB9	0.0680
108	75	S	k1405831-001*5	0.2462
109	76	S	k1405831-001d*5	0.2495
110	77	S	k1405831-001ms*5	1.7987
111	78	S	k1405831-001msd*5	1.7906
112	7	S		0.0844
113	7	S		0.0682
114	79	S	k1405818-002*25	1.1901
115	80	S	k1405818-002d*25	1.1762
116	81	S	k1405818-002ms*50	2.6356
117	7	S	rinsee	0.0634
118	2	QC1	CCV10	2.0028
119	5	QC2	CCB10	0.0593
120	82	S	k1405818-002msd*50	2.6403
121	7	S		0.0493
122	59	S	k1405853-001	0.0787
123	83	S	k1405818-001	0.1419
124	84	S	k1405818-003*200	0.2774
125	85	S	k1405818-003*100	0.5159
126	7	S		0.0328
127	86	S	k1405818-004*200	0.2434
128	87	S	k1405818-004*100	0.4608
129	7	S		0.0228
130	2	QC1	CCV11	1.9647
131	5	QC2	CCB11	0.0301
132	1	D	Drift	5.0169
133	0	B	Baseline	0.0093
134	0	B	Final Base	0.0093

NR

CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carryover	:	Yes
%:		1.4

06/13/14
[Signature]

** <END OF REPORT> **

SEAL Analytical

Application Lab

Name of Run : 140613C
 Date of Report : 6/13/2014
 Date of Run : 6/13/2014
 Operator :
 Comment :

Name of Analysis :NH3.ANL
 System No. :1
 Type of System :AA3 HR
 Start/Stop time :15:15 - 16:05

Channel : 2
 Method : Method 2
 Unit : mg/L
 Calibr. Fit : Linear
 Corr. Coeff.(r) : 0.9999
 Base : -9736
 Gain : 17
 Sensitivity : 0.4890
 Sample Limit 1 :
 Sample Limit 2 :

Pk	Cup	Sample ID	Value
0	0	B Baseline	0.0079
1	1	P Primer	5.0485
2	1	D Drift	5.0192
3	1	C 5.0	5.0214
4	2	C 2.0	1.9439
5	3	C 0.50	0.5000
6	4	C 0.05	0.0670
7	5	C 0	0.0177
8	1	H1 High	5.0464
9	5	L1 Low	0.0190
10	5	L1 Low	0.0199
11	2	QC1 CCV7	1.9764
12	5	QC2 CCB7	0.0151
13	59	S k1405853-001	0.0430
14	67	S k1405756-005*2	1.3697
15	68	S k1405756-017	0.0307
16	69	S k1405756-018	0.0533
17	70	S k1405756-020*5	1.2852
18	45	S k1405756-021	0.0159
19	50	S k1405756-026	2.3902
20	2	QC1 CCV8	1.9506
21	5	QC2 CCB8	0.0219
22	71	S k1405756-025*5	1.0633
23	96	S k1405804-001	0.0360
24	97	S k1405804-002	0.4184
25	88	S k1405756-027*100	2.4363
26	89	S k1405818-001	0.1143
27	90	S k1405818-002*10	2.8614
28	91	S k1405818-002d*10	2.8386
29	92	S k1405818-002ms*50	2.5394
30	93	S k1405818-002msd*50	2.5492
31	94	S k1405818-003*50	0.8961

06/13/14
[Handwritten Signature]

32	2	QC1	CCV9	1.9603
33	5	QC2	CCB9	0.0246
34	95	S	k1405818-004*50	0.8621
35	2	QC1	CCV10	1.9557
36	5	QC2	CCB10	0.0158
37	1	D	Drift	5.0192
38	0	B	Baseline	0.0079
39	0	B	Final Base	0.0079

CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carryover	:	Yes
%:		1.4

** <END OF REPORT> **

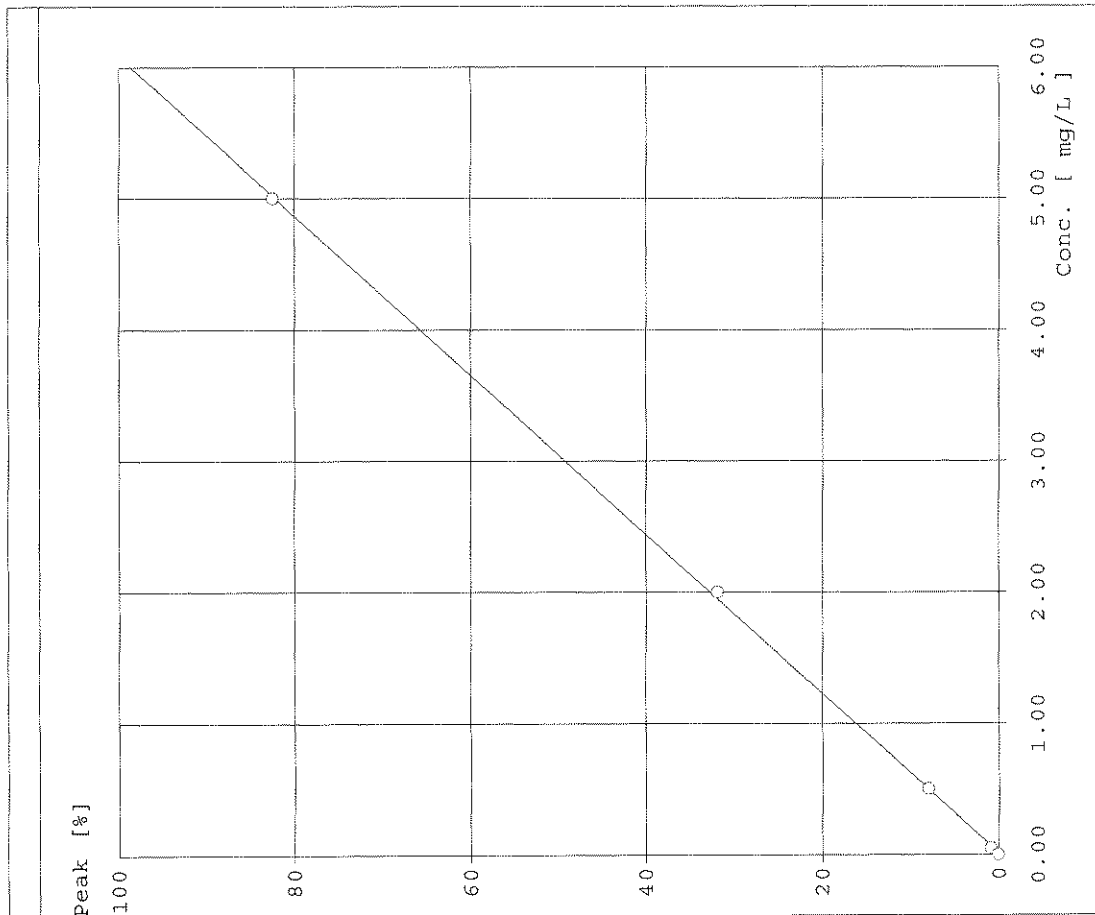
06/13/14
[Handwritten Signature]

SEAL Analytical

Application Lab

Name of run : 140613B.run
Comment :

Name of analysis : NH3
Date of report : 6/13/2014



Channel : 2 Date of run : 6/13/2014
 Method : Method 2
 Curve fit : Linear
 Corr. coeff. (r) : 0.9999
 Equation : $Y = bx + a$
 $Y = \text{conc. in}$
 $x = \text{peak height in digital units}$
 $a = -2.9320E-001$
 $b = 9.2683E-005$

Corrections
 Baseline Corr. done
 Drift Correction done
 Carryover Corr. done 1.39 %

Calibrant Values

Type	Calculated	Target	Diff. [mg/L]	Diff. (%)
1C	5.0198	5.0000	0.0198	0.40
2C	1.9490	2.0000	-0.0510	-2.55
3C	0.4976	0.5000	-0.0024	-0.49
4C	0.0679	0.0500	0.0179	35.78
5C	0.0158	0.0000	0.0158	---

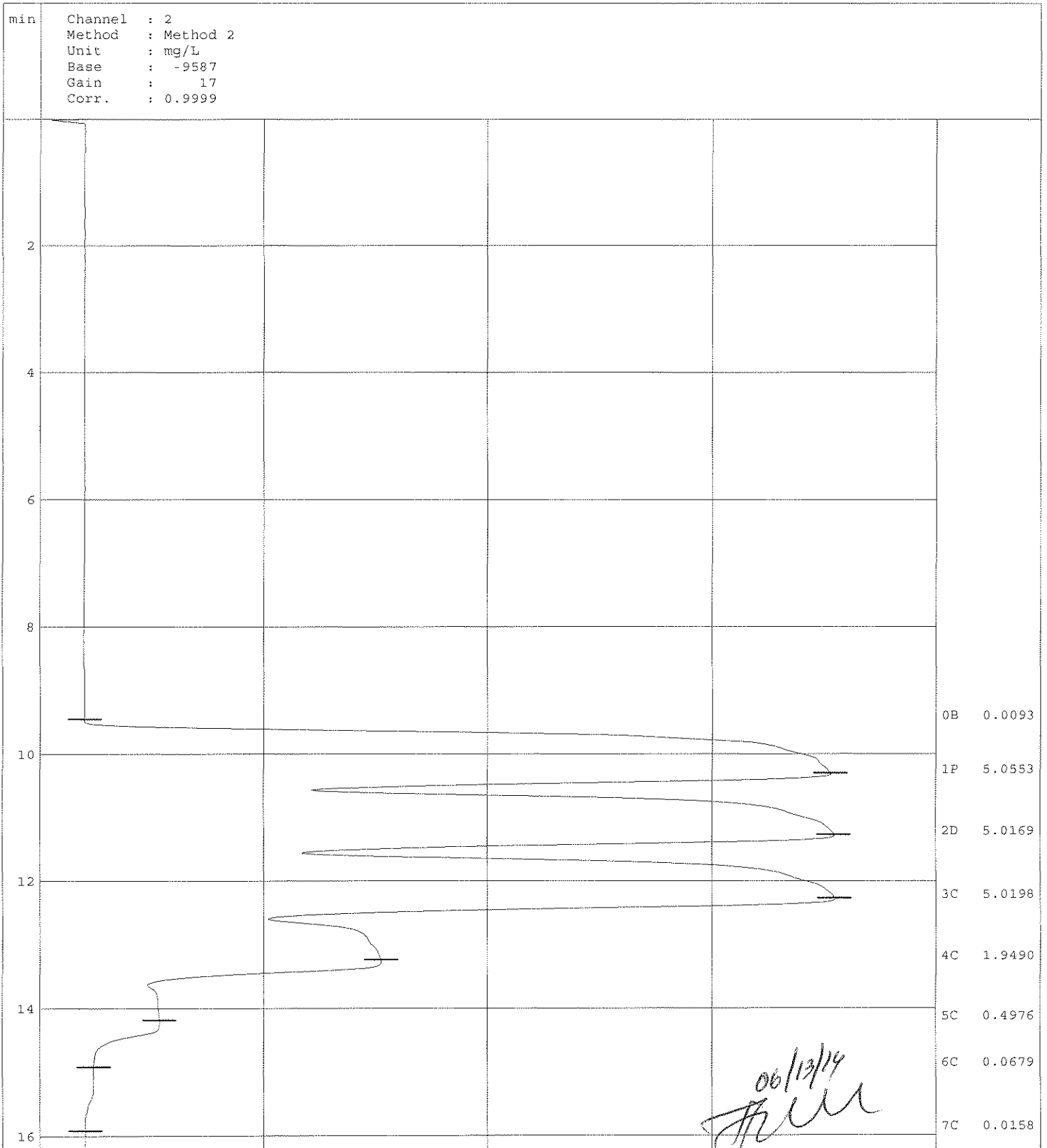
06/13/14
Fuller

SEAL Analytical

Application Lab

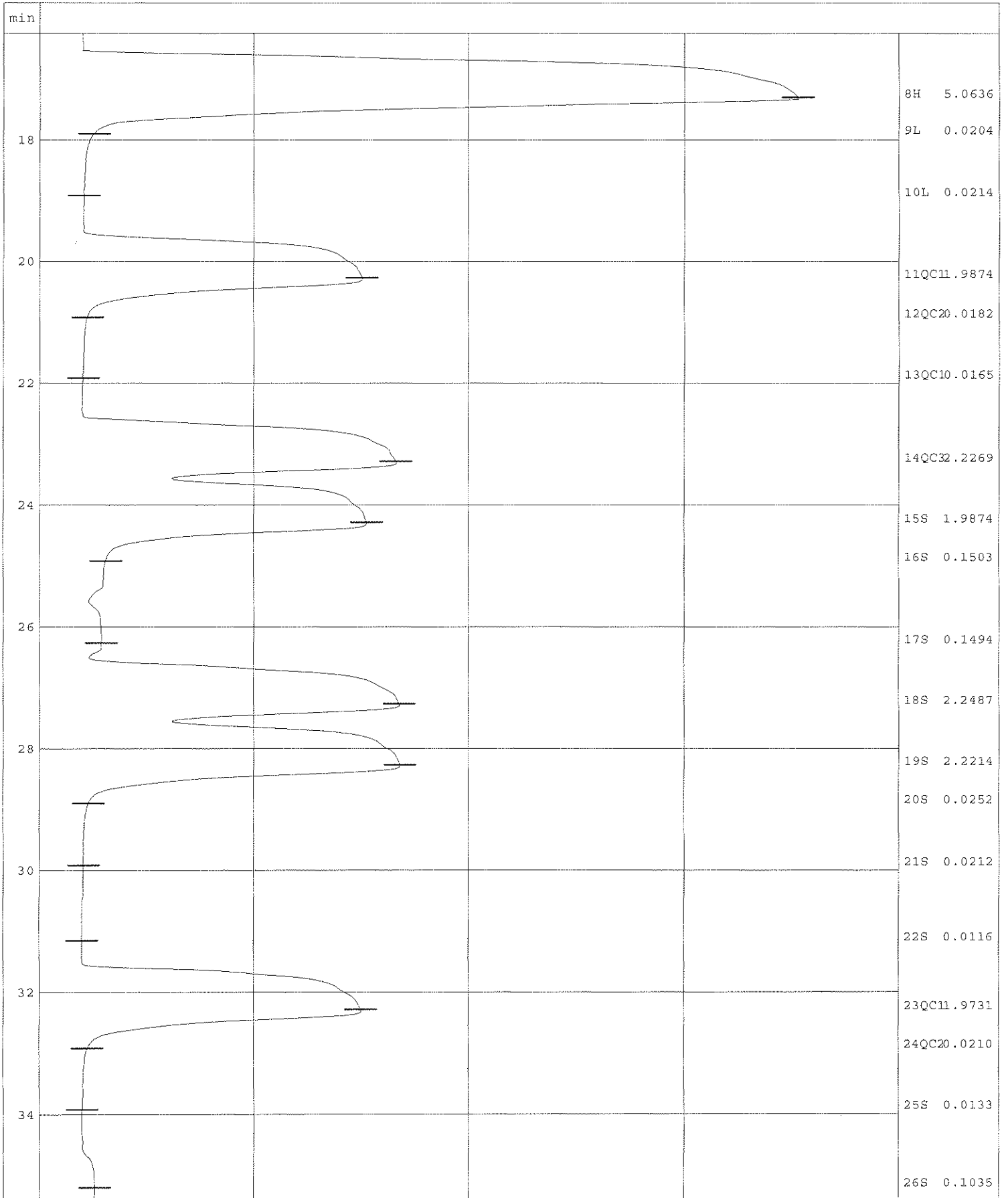
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Comment :

Name of analysis :NH3



Name of run :140613B.RUN
 Comment :

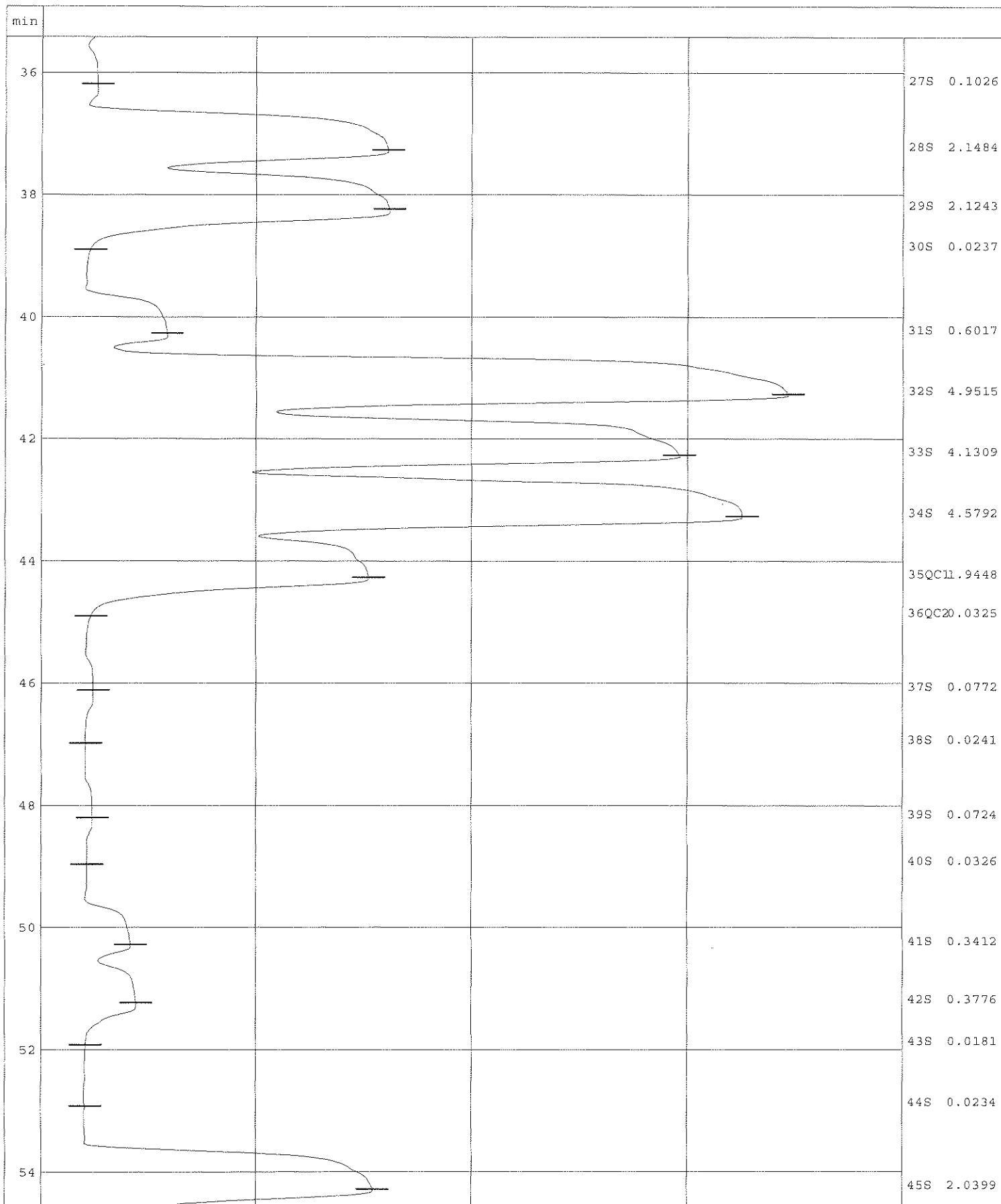
Name of analysis :NH3



Name of run :140613B.RUN

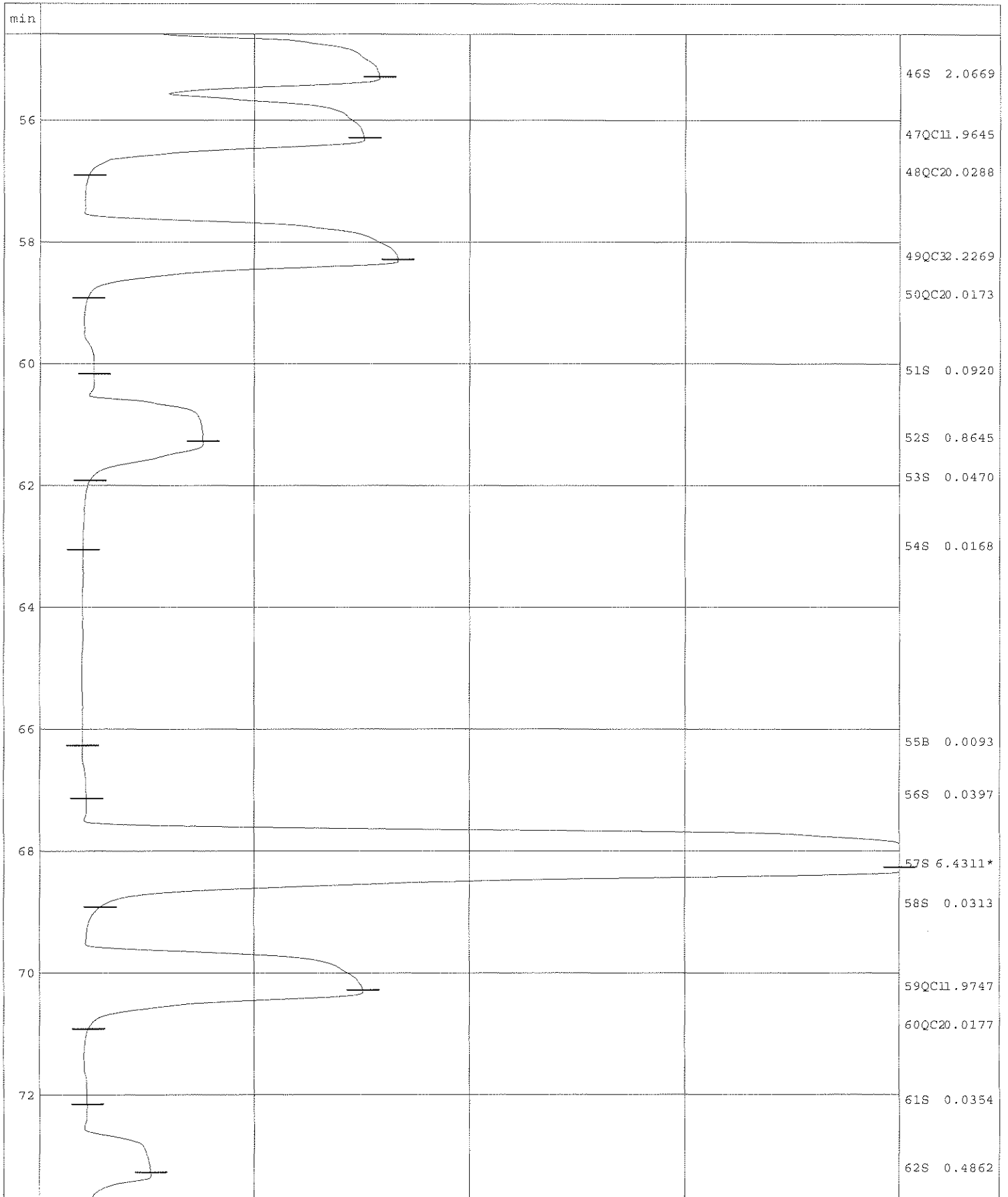
Name of analysis :NH3

Comment :



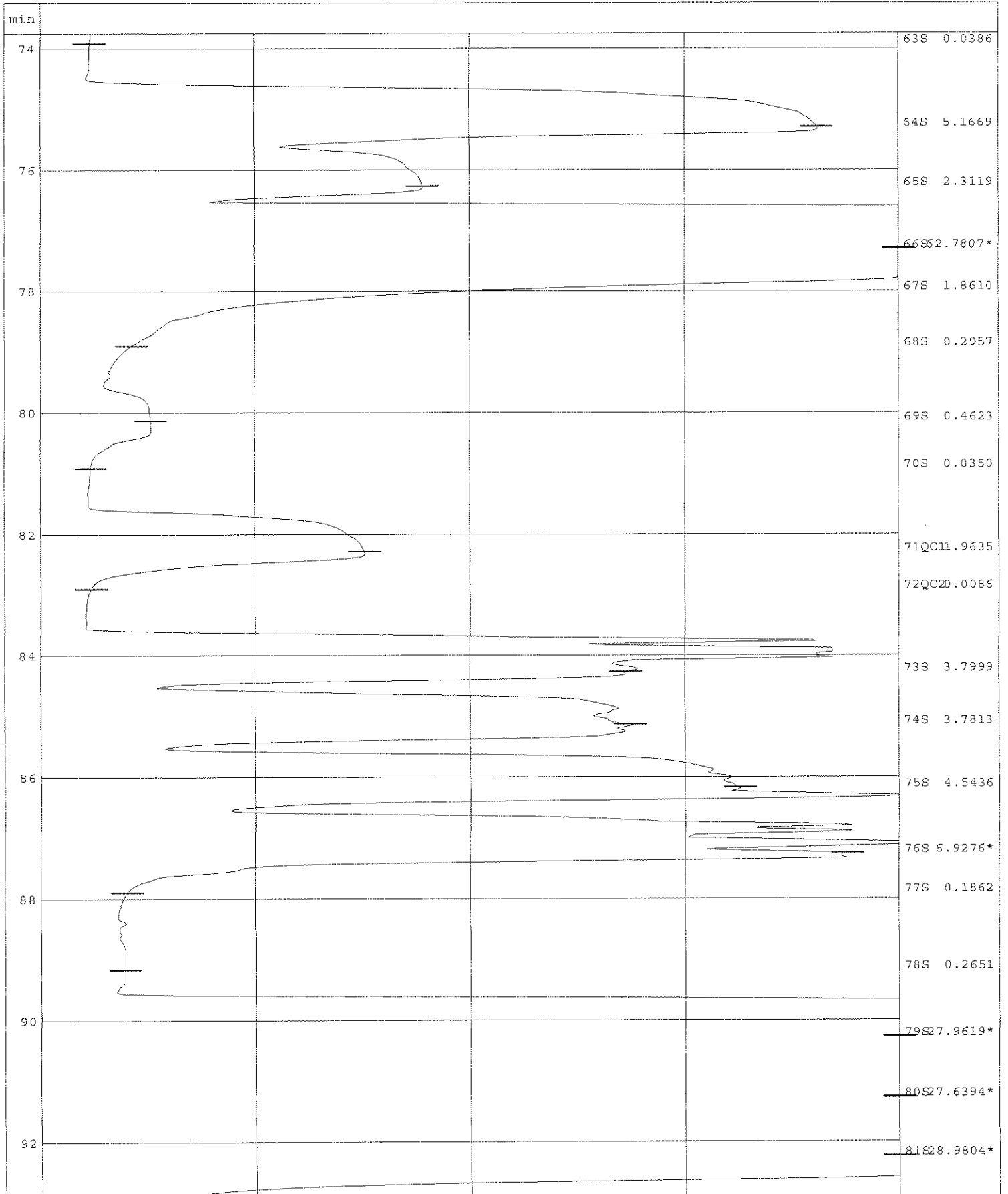
Name of run :140613B.RUN
 Comment :

Name of analysis :NH3



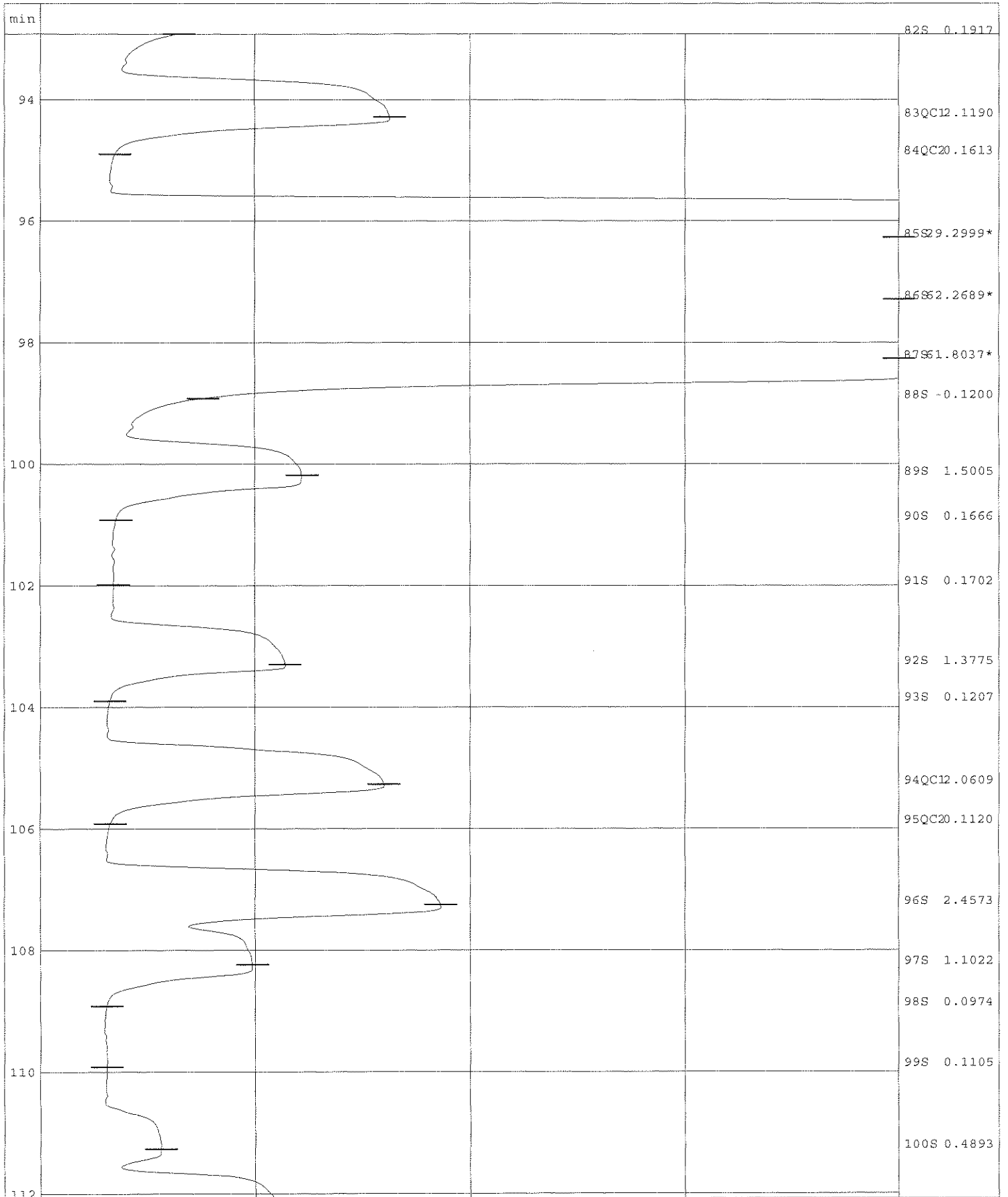
Name of run :140613B.RUN
Comment :

Name of analysis :NH3



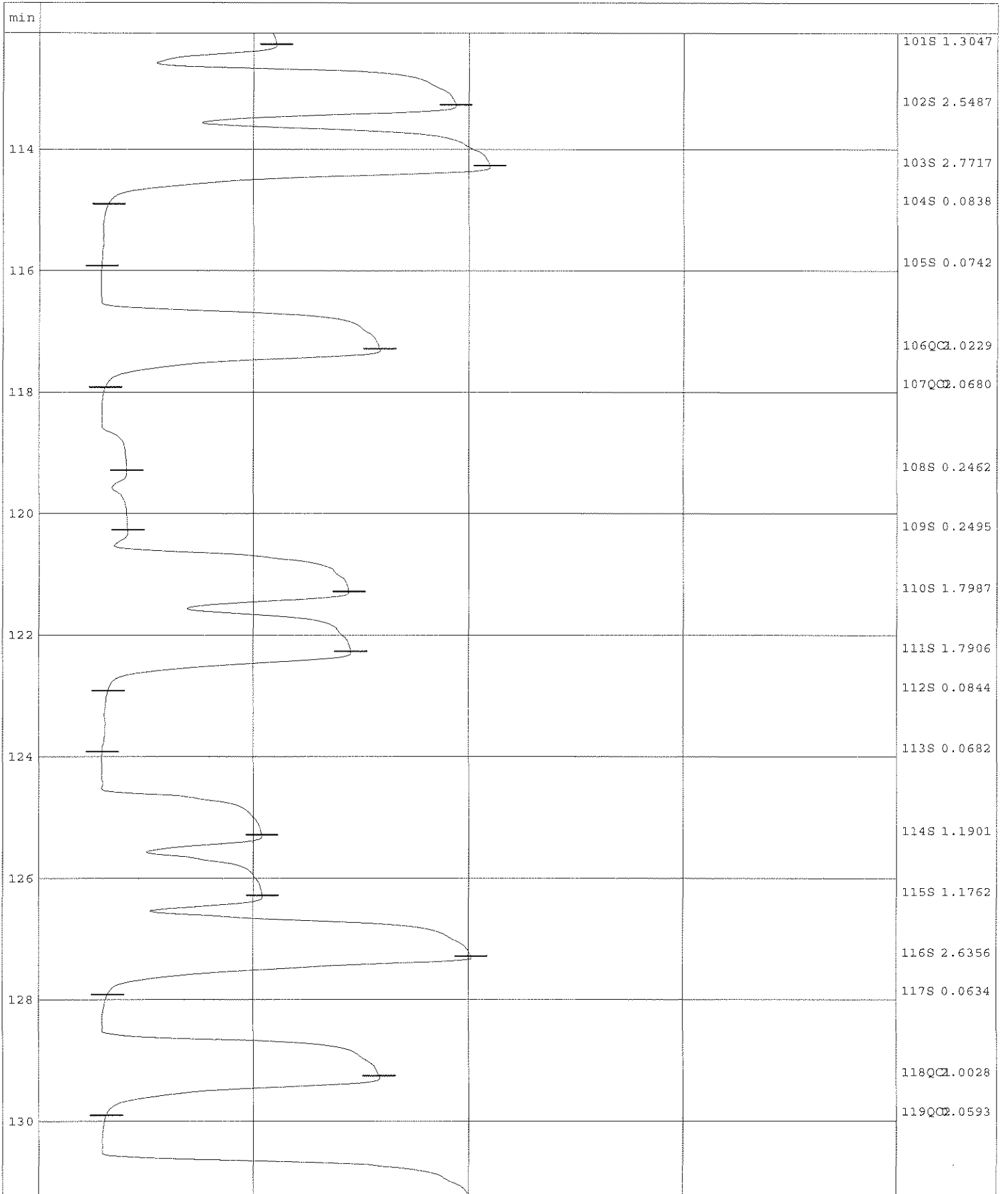
Name of run :140613B.RUN
 Comment :

Name of analysis :NH3



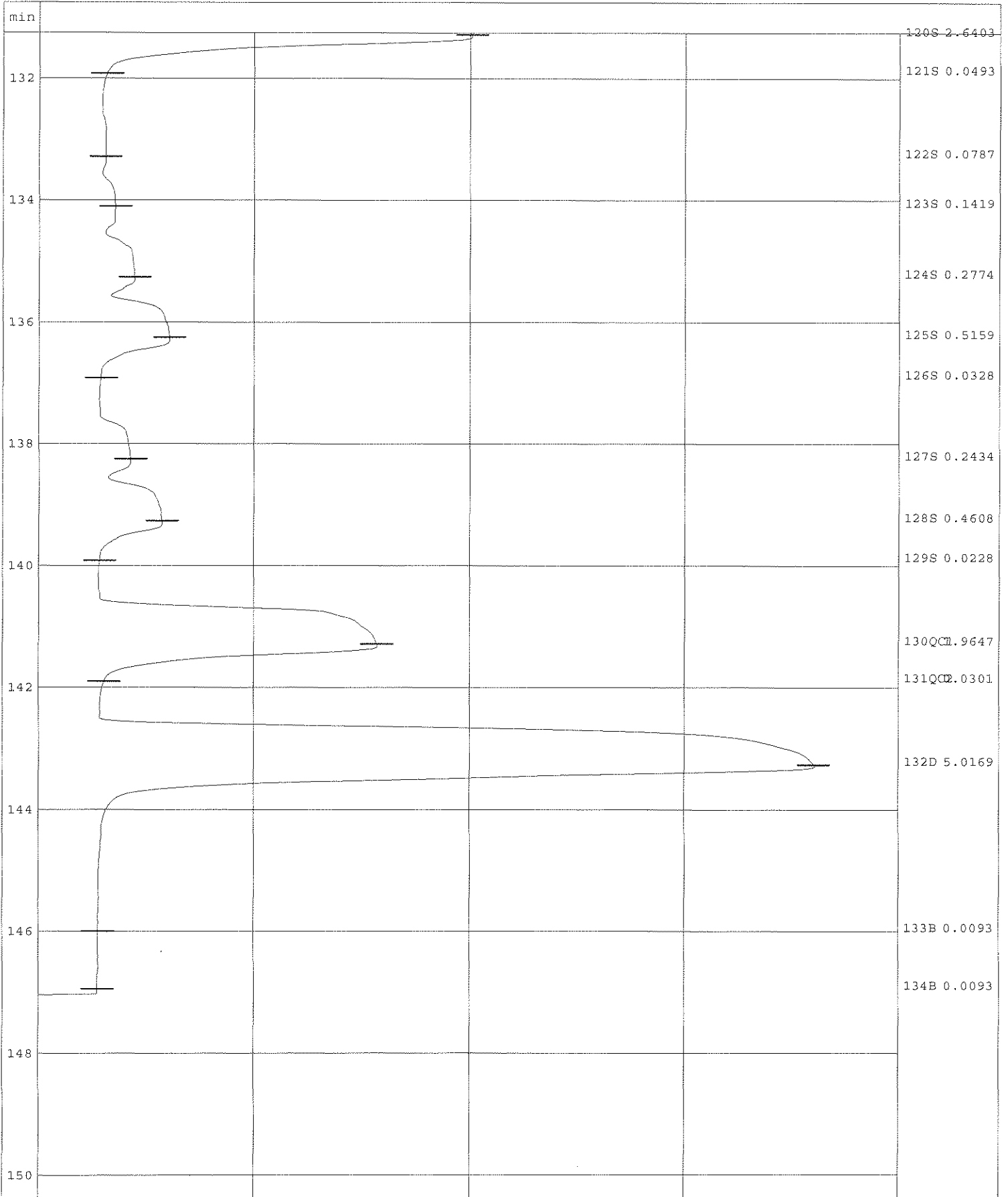
Name of run :140613B.RUN
 Comment :

Name of analysis :NH3



Name of run :140613B.RUN
Comment :

Name of analysis :NH3

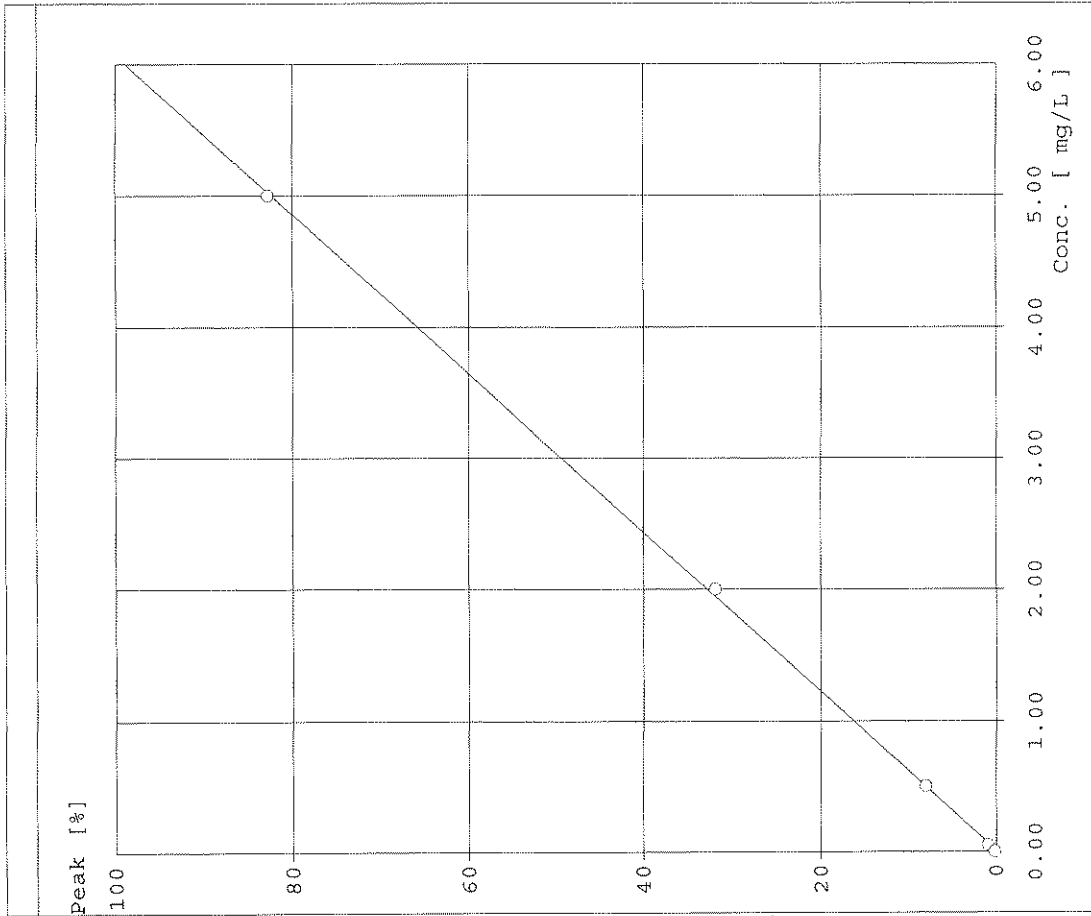


SEAL Analytical

Application Lab

Name of run : 140613C.run
Comment :

Name of analysis : NH3.ANL
Date of report : 6/13/2014



Channel : 2 Date of run : 6/13/2014
 Method : Method 2
 Curve fit : Linear
 Corr. coeff. (r) : 0.9999
 Equation : $Y = bx + a$
 $Y = \text{conc. in}$
 $x = \text{peak height in digital units}$
 $a = -2.8379E-001$
 $b = 9.2511E-005$

Corrections
 Baseline Corr. done
 Drift Correction done
 Carryover Corr. done 1.36 %

Calibrant Values

Type	Calculated	Target	Diff. [mg/L]	Diff. (%)
1C	5.0214	5.0000	0.0214	0.43
2C	1.9439	2.0000	-0.0561	-2.81
3C	0.5000	0.5000	0.0000	-0.01
4C	0.0670	0.0500	0.0170	34.03
5C	0.0177	0.0000	0.0177	---

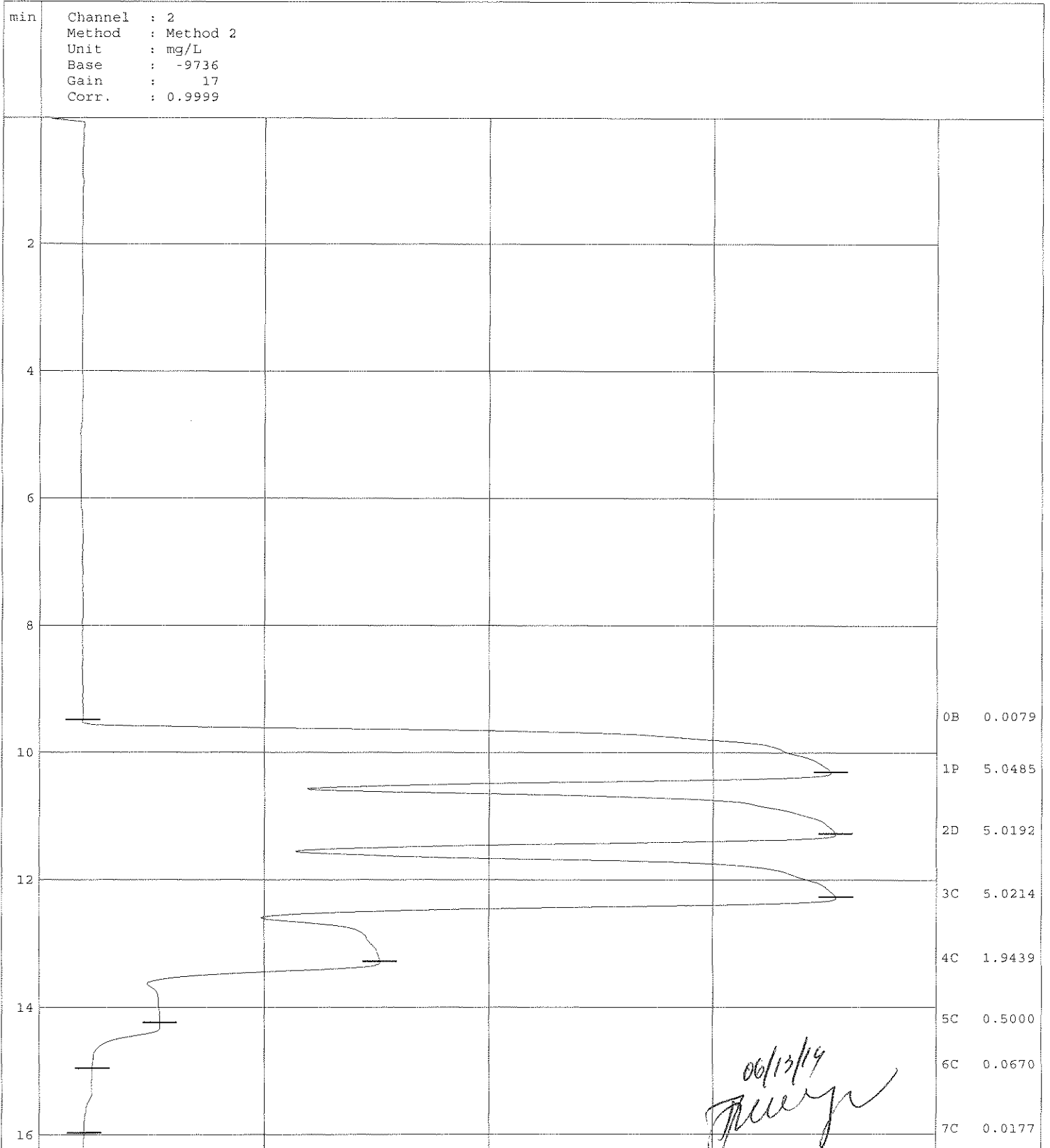
06/13/14
Fuller

SEAL Analytical

Application Lab

Name of run :140613C.RUN
Comment :

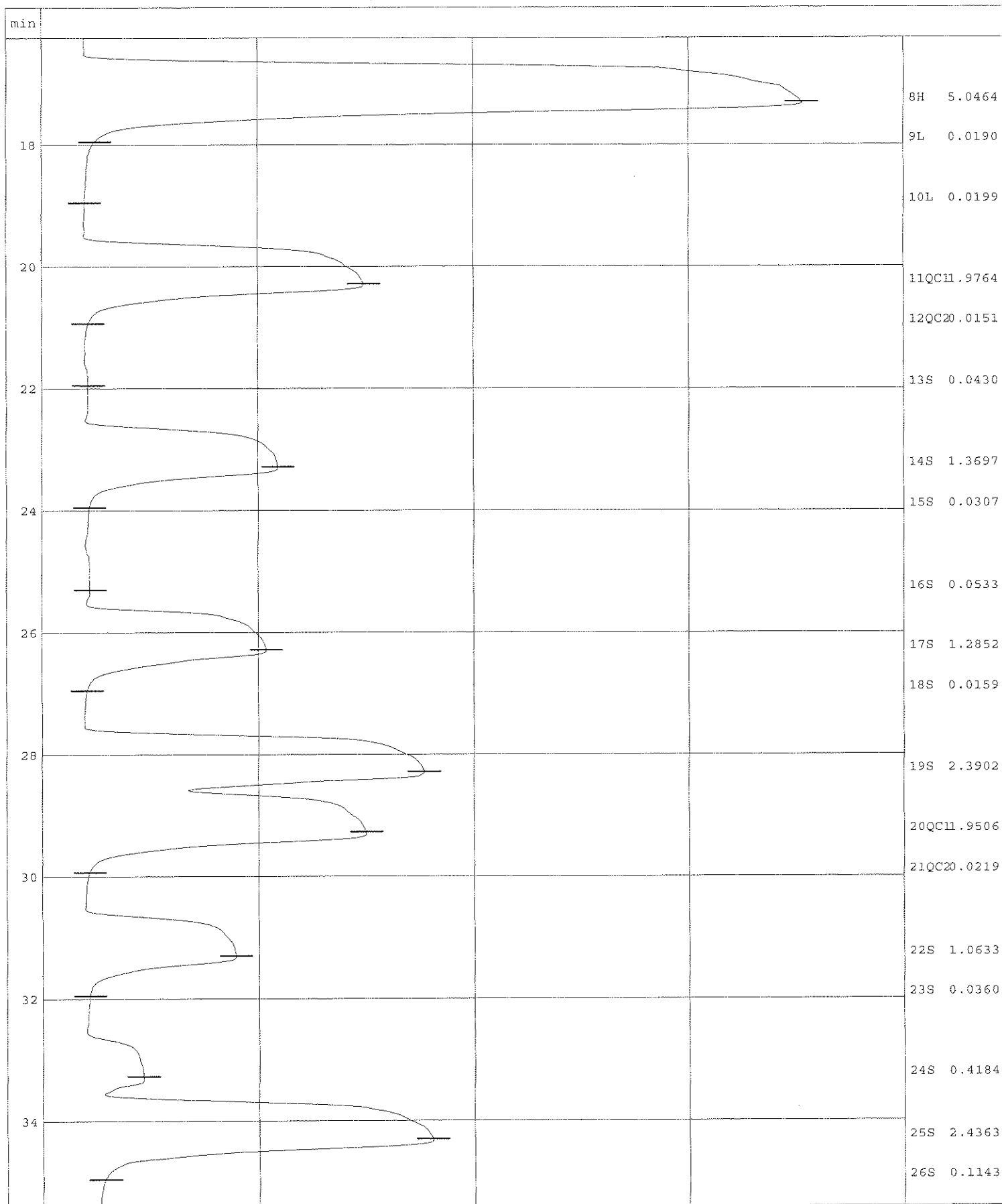
Name of analysis :NH3.ANL



Name of run :140613C.RUN

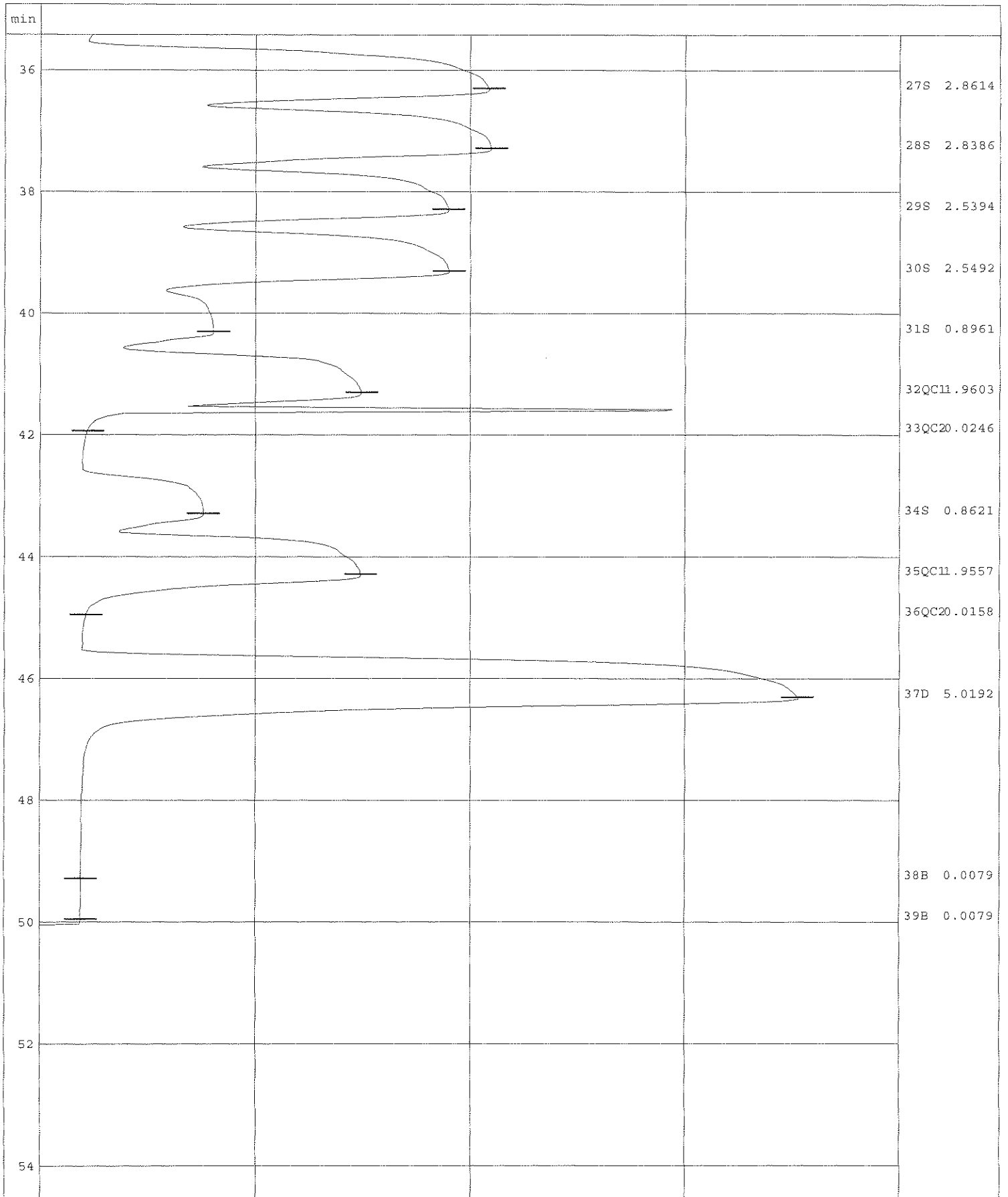
Name of analysis :NH3.ANL

Comment :



Name of run :140613C.RUN
Comment :

Name of analysis :NH3.ANL



Preparation Information Benchsheet

Prep Run#: 210828
 Team: GenChem/THANGANU

Prep Workflow: GenEx28Day
 Prep Method: Method

Status: Prepped
 Prep Date/Time: 6/13/14 03:40 PM

Number of Copies to make: 3

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ1406580-01	MB		SM 4500-NH3 G/Ammonia		Liquid	5mL	5.00mL	
2	KQ1406580-02	LCS		SM 4500-NH3 G/Ammonia		Liquid	5mL	5.00mL	
3	KQ1406580-03	K1405650-001 MS	.09	SM 4500-NH3 G/Ammonia		Liquid	5mL	5.00mL	
4	KQ1406580-04	K1405650-001 DMS	.09	SM 4500-NH3 G/Ammonia		Liquid	5mL	5.00mL	
5	KQ1406580-05	K1405650-001 DUP	.09	SM 4500-NH3 G/Ammonia		Liquid	5mL	5.00mL	
6	K1405650-001	MW-2	.09	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
7	K1405650-002	MW-5	.09	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
8	K1405650-003	MW-7	.09	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
9	K1405723-001	MW-1	.09	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
10	K1405723-002	MW-6	.09	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
11	K1405723-003	MW-4	.09	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
12	KQ1406580-08	K1405723-003 DUP	.09	SM 4500-NH3 G/Ammonia		Liquid	5mL	5.00mL	
13	KQ1406580-06	K1405723-003 MS	.09	SM 4500-NH3 G/Ammonia		Liquid	5mL	5.00mL	
14	KQ1406580-07	K1405723-003 DMS	.09	SM 4500-NH3 G/Ammonia		Liquid	5mL	5.00mL	
15	K1405723-004	MW-3	.09	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
16	K1405756-001	WWTP-EFF	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
17	K1405756-002	WWTP-INF	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
18	K1405756-003	WWTP-DUP	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
19	K1405756-004	LANDFILL	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
20	K1405756-005	LOWS DISCHARGE	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
21	K1405756-007	614	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
22	K1405756-009	HANGER ONE WASH	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
23	K1405756-010	CHP	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
24	K1405756-012	FIRE HALL OWS	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
25	K1405756-013	DUP	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
26	K1405756-015	OWS-DOT	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
27	K1405756-016	H-65 WASH	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	
28	K1405756-017	OWS FIRE BURN PIT	.02	SM 4500-NH3 G/Ammonia		Water	5mL	5.00mL	

Preparation Information Benchsheet

Prep Run#: 210828
Team: GenChem/THANGANU

Prep Workflow: GenEx128Day
Prep Method: Method

Status: Prepped
Prep Date/Time: 6/13/14 03:40 PM

Preparation Steps

Step: Extraction
Started: 6/13/14 15:40
Finished: 6/13/14 15:43
By: THANGANU
Comments

Comments:

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extrags Examined
Yes No



Preparation Information Benchsheet

Prep Run#: 210829
Team: GenChem/THANGANU
Number of Copies to make: 4

Prep Workflow: GenEx28Day
Prep Method: Method

Status: Prepped
Prep Date/Time: 6/13/14 03:44 PM

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ1406582-01	MB		SM 4500-NH3 G/Ammونيا		Liquid	5mL	5.00mL	
2	KQ1406582-01	MB		SM 4500-NH3 G/Ammonium T		Liquid	5mL	5.00mL	
3	KQ1406582-02	LCS		SM 4500-NH3 G/Ammونيا		Liquid	5mL	5.00mL	
4	KQ1406582-02	LCS		SM 4500-NH3 G/Ammonium T		Liquid	5mL	5.00mL	
5	K1405756-014	N-I MAINTENANCE	.02	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
6	KQ1406582-05	K1405756-014 DUP	.02	SM 4500-NH3 G/Ammونيا		Liquid	5mL	5.00mL	
7	KQ1406582-03	K1405756-014 MS	.02	SM 4500-NH3 G/Ammونيا		Liquid	5mL	5.00mL	
8	KQ1406582-04	K1405756-014 DMS	.02	SM 4500-NH3 G/Ammونيا		Liquid	5mL	5.00mL	
9	K1405756-018	H60 ENGINE WASH	.02	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
10	K1405756-019	OLD PP	.02	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
11	K1405756-020	C130 ENGINE	.02	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
12	K1405756-021	N-66	.02	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
13	K1405756-022	DUP	.02	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
14	K1405756-023	AVIS OWS	.02	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
15	K1405756-024	BUGET FLOOR DRAIN	.02	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
16	K1405756-025	ANDREW AIR	.02	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
17	K1405756-026	SREB	.02	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
18	K1405756-027	CHEM STORAGE	.02	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
19	K1405804-001	CHEFDKAKA	.01	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
20	K1405804-002	CAESUMI	.01	SM 4500-NH3 G/Ammونيا		Water	5mL	5.00mL	
21	K1405853-001	Outfall-1	.07	SM 4500-NH3 G/Ammonium T		Water	5mL	5.00mL	
22	K1405818-001	SYC14-SW	.08	SM 4500-NH3 G/Ammonium T		Water	5mL	5.00mL	
23	K1405818-002	SYC14-AC Elutriate	.20	SM 4500-NH3 G/Ammonium T		Water	5mL	5.00mL	
24	KQ1406582-08	K1405818-002 DUP	.20	SM 4500-NH3 G/Ammonium T		Liquid	5mL	5.00mL	
25	KQ1406582-06	K1405818-002 MS	.20	SM 4500-NH3 G/Ammonium T		Liquid	5mL	5.00mL	
26	KQ1406582-07	K1405818-002 DMS	.20	SM 4500-NH3 G/Ammonium T		Liquid	5mL	5.00mL	
27	K1405818-003	SYC14-TB1 Elutriate	.09	SM 4500-NH3 G/Ammonium T		Water	5mL	5.00mL	
28	K1405818-004	SYC14-TB2 Elutriate	.09	SM 4500-NH3 G/Ammonium T		Water	5mL	5.00mL	

Preparation Information Benchsheet

Prep Run#: 210829
Team: GenChem/THANGANU

Prep WorkFlow: GenEx28Day
Prep Method: Method

Status: Prepped
Prep Date/Time: 6/13/14 03:44 PM

Preparation Steps

Step: Extraction
Started: 6/13/14 15:44
Finished: 6/13/14 15:46
By: THANGANU
Comments

Comments:

Reviewed By: _____

Date: _____

Chain of Custody

Relinquished By: _____

Date: _____

Received By: _____

Date: _____

Extracts Examined
Yes No



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run: 210945	Prep Workflow: MetDig3010A	Status: Prepped	Prep Date: 06/17/2014
Team: Metals	Prep Method: EPA 3010A	Current Step: Digestion	09:23
Analyst: Anna Cheatley	Rush/NPDES: N/A		Due Date: 06/21/2014
			Hold Date: 11/30/2014

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1406645-01	Method Blank		50 mL	50 mL			Se T	6%HNO3,5%HCl
KQ1406645-02	Lab Control Sample		50 mL	50 mL	0.2 mL	67891	Se T	6%HNO3,5%HCl
K1405572-001	SYC14-ODMDS-SW	.01	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405721-001	UM-E0605-UM-D13-101	.01	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405721-002	UM-E0605-FM-D13-102	.01	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405721-002: KQ1406645-06	Duplicate	.01	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405721-002: KQ1406645-07	Matrix Spike	.01	50 mL	50 mL	0.2 mL	66698	Se T	6%HNO3,5%HCl
K1405721-003	UM-E0605-UM-D13-105	.01	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405721-004	UM-E0605-FM-D13-106	.01	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405721-005	UM-E0605-UM-D13-109	.01	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405721-006	UM-E0605-FM-D13-110	.01	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405818-001	SYC14-SW	.02	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405818-002	SYC14-AC Elutriate	.19	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405818-002: KQ1406645-03	Duplicate	.19	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405818-002: KQ1406645-04	Matrix Spike	.19	50 mL	50 mL	0.2 mL	66698	Se T	6%HNO3,5%HCl
K1405818-002: KQ1406645-05	Duplicate Matrix Spike	.19	50 mL	50 mL	0.2 mL	66698	Se T	6%HNO3,5%HCl
K1405818-003	SYC14-TB1 Elutriate	.08	50 mL	50 mL			Se T	6%HNO3,5%HCl
K1405818-004	SYC14-TB2 Elutriate	.08	50 mL	50 mL			Se T	6%HNO3,5%HCl

18 Total Samples consisting of 11 Client Samples, 5 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET GFLCSW	Spike	67891	8/31/2014	K-MET SS2	Spike	66698	7/26/2014

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET HCL	58633	Digestion	K-MET HNO3	69962
Digestion	K-MET 50ml Centrifuge Tube	63655			

Preparation Hardware / Equipment

Step	Name	Property	Value	Step	Name	Property	Value
Digestion	K-HotPlate-02	Temperature Thermo 211917599	93 deg C	Digestion	K-HotPlate-04	Temperature Thermo 211922114	95 deg C

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	17-JUN-14 09:23	17-JUN-14 14:20	Anna Cheatley		N	

Comments

Thermo 211917599 Observed temperature=93C. Correction factor=0. Corrected temperature=93C. Thermo 211922114 Observed temperature=95C. Correction factor=0. Corrected temperature=95C.

Review

Reviewed by: BSJ Date: 6/18/14

Preparation Information Benchsheet

Prep Run: 210943 **Prep Workflow:** MetDigAqMS **Status:** Prepped **Prep Date:** 06/16/2014
Team: Metals **Prep Method:** METALS **Current Step:** Digestion **Due Date:** 06/21/2014
Analyst: Anna Cheatley **Rush/NPDES:** N/A **Hold Date:** 11/30/2014

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1406643-01	Method Blank		50 mL	50 mL			Metals T	1%HNO3 ULTREX
KQ1406643-02	Lab Control Sample		50 mL	50 mL	0.1 mL 0.5 mL 0.5 mL 0.5 mL	65422 70315 70786 71264	Metals T	1%HNO3 ULTREX
K1405572-001	SYC14-ODMDS-SW	.01	2.5 mL	50 mL			Metals T	1%HNO3 ULTREX
K1405818-001	SYC14-SW	.02	2.5 mL	50 mL			Metals T	1%HNO3 ULTREX
K1405818-002	SYC14-AC Elutriate	.19	2.5 mL	50 mL			Metals T	1%HNO3 ULTREX
K1405818-002: KQ1406643-03	Duplicate	.19	2.5 mL	50 mL			Metals T	1%HNO3 ULTREX
K1405818-002: KQ1406643-04	Matrix Spike	.19	2.5 mL	50 mL	0.1 mL 0.5 mL 0.5 mL 0.5 mL	65422 70315 70786 71264	Metals T	1%HNO3 ULTREX
K1405818-002: KQ1406643-05	Duplicate Matrix Spike	.19	2.5 mL	50 mL	0.1 mL 0.5 mL 0.5 mL 0.5 mL	65422 70315 70786 71264	Metals T	1%HNO3 ULTREX
K1405818-003	SYC14-TB1 Elutriate	.08	2.5 mL	50 mL			Metals T	1%HNO3 ULTREX
K1405818-004	SYC14-TB2 Elutriate	.08	2.5 mL	50 mL			Metals T	1%HNO3 ULTREX

10 Total Samples consisting of 5 Client Samples, 3 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET Mo/U 10ppm	Spike	65422	6/16/2014	k-met 1/100 QCP-CICV-3	Spike	70786	11/18/2014
k-met 1/100 QCP CICV-1	Spike	70315	11/4/2014	k-met Sb 5ug/mL Sb	Spike	71264	10/1/2014

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET 50ml Centrifuge Tube	63655	Digestion	K-MET HNO3 ULTREX	70317

Preparation Hardware / Equipment

Step	Name	Property	Value	Step	Name	Property	Value
Digestion	K-BlockDigester-06	Corrected Temperature	94	Digestion	K-BlockDigester-06	Temperature Thermo	211919567
Digestion	K-BlockDigester-06	Correction Factor	0	Digestion	K-BlockDigester-06	Thermometer Location	31
Digestion	K-BlockDigester-06	Observed Temperature	94				

Preparation Steps

<u>Step</u>	<u>Started</u>	<u>Finished</u>	<u>By</u>	<u>Assisted By</u>	<u>Training?</u>	<u>Comments</u>
Digestion	16-JUN-14 15:06	16-JUN-14 17:06	Anna Cheatley		N	

Comments

Review

Reviewed by: BJS Date: 6/18/14

Preparation Information Benchsheet

Prep Run: 210992 **Prep Workflow:** MetDigRedPptAq **Status:** Prepped
Team: Metals **Prep Method:** EPA 1640 **Current Step:** Digestion **Prep Date:** 06/18/2014 13:00
Analyst: Anna Cheatley **Rush/NPDES:** N/A **Due Date:** 06/19/2014
Hold Date: 11/08/2014

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1406669-03	Method Blank		100 mL	100 mL			Metals Redppt T	
KQ1406669-01	Lab Control Sample		1000 mL	100 mL			Metals Redppt T	
K1405556-008	CTMW-9-0614	.18	1000 mL	100 mL			Metals RedPpt T	pH<2
K1405556-017	CTMW-7-0614	.50	1000 mL	100 mL			Metals RedPpt T	pH<2
K1405556-018	CTMW-9-7-0614	.18	1000 mL	100 mL			Metals RedPpt T	pH<2
K1405572-001	SYC14-ODMDS-SW	.01	1000 mL	100 mL			Metals Redppt T	
K1405721-001	UM-E0605-UM-D13-101	.01	600 mL	100 mL			Metals RedPpt T	
K1405721-002	UM-E0605-FM-D13-102	.01	700 mL	100 mL			Metals RedPpt T	
K1405721-003	UM-E0605-UM-D13-105	.01	800 mL	100 mL			Metals RedPpt T	
K1405721-004	UM-E0605-FM-D13-106	.01	800 mL	100 mL			Metals RedPpt T	
K1405721-005	UM-E0605-UM-D13-109	.01	800 mL	100 mL			Metals RedPpt T	
K1405721-006	UM-E0605-FM-D13-110	.01	800 mL	100 mL			Metals RedPpt T	
K1405818-001	SYC14-SW	.02	1000 mL	100 mL			Metals Redppt T	
K1405818-002	SYC14-AC Elutriate	.18	1000 mL	100 mL			Metals Redppt T	
K1405818-002: KQ1406669-06	Duplicate	.18	1000 mL	100 mL			Metals Redppt T	
K1405818-002: KQ1406669-04	Matrix Spike	.18	1000 mL	100 mL			Metals Redppt T	
K1405818-002: KQ1406669-05	Duplicate Matrix Spike	.18	1000 mL	100 mL			Metals Redppt T	
K1405818-003	SYC14-TB1 Elutriate	.07	1000 mL	100 mL			Metals Redppt T	
K1405818-004	SYC14-TB2 Elutriate	.07	1000 mL	100 mL			Metals Redppt T	
K1405926-001	RCD-MW101-051214	.02	1000 mL	100 mL			Metals Redppt D	

20 Total Samples consisting of 15 Client Samples, 3 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions**Preparation Materials****Preparation Hardware / Equipment**

Preparation Steps

<u>Step</u>	<u>Started</u>	<u>Finished</u>	<u>By</u>	<u>Assisted By</u>	<u>Training?</u>	<u>Comments</u>
Digestion	18-JUN-14 13:00	19-JUN-14 10:00	Anna Cheatley		N	

Comments

KQ1406669-01 LCS, K1405818-002:KQ1406669-04 MS and K1405818-002:KQ1406669-05 DMS spiked with 2.0mL 200.8 Sol. (ms16-91-A) and 2.0mL 1000ppb Ag (ms16-89-L).

Review

Reviewed by: BSJ Date: 6/18/14

ICPMS LCSW AND SPIKING SOLUTIONS

5.00mL to 500mL Dilution of Inorganics Ventures QCP-CICV-1
K-Met 1/100 QCP-CCV-1

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
Al	10000	100
Ba	10000	100
Co	2500	25
Mn	2500	25
Ni	2500	25
V	2500	25
Zn	2500	25
Cu	1250	12.5
Ag	1250	12.5
Cr	1000	10
Be	250	2.5

1.00mL to 200mL Dilution of 1,000 ppm Sb
K-Met Sb 10 ppm

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
Sb	5000	50

5.00mL to 500mL Dilution of Inorganics Ventures QCP-CICV-3
K-Met 1/100 QCP-CICV-3

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
As	5000	50
Pb	5000	50
Se	5000	50
Tl	5000	50
Cd	2500	25

2.00mL to 200mL Dilution of 1,000 ppm Mo and 1,000 ppm U
K-Met Mo/U 10ppm

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
Mo	10000	20
U	10000	20

Sample Number(s): As listed below

Service Request Number(s):

K1405833 / K1405818

Analysis for:

Method: Standard Elutriate Test

SET ELUTRIATE

Sample	Sediment Weight (g)	Site Water Volume Added (mL)	Mechanical Mixing Time	Hand mixed at 10min intervals	Time Settling Completed
K1405818 K1405833	1 2103.21	6400	30 min	Hand mixed at 10min intervals	12:36 6/12 13:00
1	2090.73	6400	30 min	Hand mixed at 10min intervals	13:03 13:33
1	2150.83	6400	30 min	NA 7/6/12	13:33 14:03
4	1959.87	6400	30 min		14:15
5	1926.54	6400	30 min		14:48

Comments: Samples did not form clumps, therefore hand mixing was unnecessary

Room Temperature: 22

Balance ID: 23 Date Balance Checked: 6/12/14

Analyst: *[Signature]*
 Reviewed: *[Signature]* 6/12/14
 6/17/14

ALS Enviromental

Service Request Number(s):
K1405818

Bottles for Elutriates

Sample Number	Number of Bottles for:					Extra 1000 mL Amber
	Ammonium (H ₂ SO ₄)	Metals 500 mL WM (HNO ₃)	Metals 1000 mL WM (HNO ₃)	8081B 1000 mL Amber		
K1405818-002	1	1	5	11		1
K1405818-003	1	1	1	2		3
K1405818-004	1	1	1	2		3

TE
6/12

*Bottles for dissolved metals analysis are unpreserved. Bottles for total metals are preserved with HNO₃.

Analyst: <i>Julie Reinhardt</i>	Date: 6/12/14
Reviewed: <i>[Signature]</i>	Date: 6/17/14

Element Analyzed: Se Hydride Instrument: K-FLAA-02
 Service Request #: K1405572, K1405721, K1405818, K1405610,
K1405731, K1405758, K1405824, K1405857,
K1405461
 Calibration Std.: AA1-16-B Expiration Date: 10/1/2014
 2nd Source Std.: AA1-16-A Expiration Date: 7/10/2014
 Starlims #: 398122
 Run #: 062014-Se1

Hydride Data Review Form

	Yes	No	NA
1. ICV within 10% of true Value	<u>X</u>	<u> </u>	<u> </u>
2. Calibration data included	<u>X</u>	<u> </u>	<u> </u>
3. CCV's in control	<u>X</u>	<u> </u>	<u> </u>
4. CCB's and/or ICB's below MRL	<u>X</u>	<u> </u>	<u> </u>
5. All reported Results within Cal. Range	<u>X</u>	<u> </u>	<u> </u>
6. All Calculations are Correct	<u>X</u>	<u> </u>	<u> </u>

Comments

Primary Reviewed by: BJS Date: 6/20/14

Secondary Reviewed by: JDB Date: 6/20/14


COLUMBIA ANALYTICAL SERVICES, INC.

FAA Run Log

Method: (Circle Method Used) 7742 7062 Other: _____ Element: As Se	Service Request # :
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SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)	Comments
				Post Spike = 5 ppb
Cal. Blk	-	0.000		
Cal. Std 0.5	-	0.500	*(0.025-50ml)	*Cal. Std = AA1-16-B
Cal. Std 1.0	-	1.000	*(0.05-50ml)	
Cal. Std 5.0	-	5.000	*(0.25-50ml)	
Cal. Std 7.5	-	7.500	*(0.375-50ml)	
Cal. Std 10.0	-	10.000	*(0.5-50ml)	
ICV	-	7.477	100%	ICV Std = AA1-16-A
ICB	-	0.051		
CRA	-	0.494	99%	
CCV	-	8.670	116%	
CCV	-	8.049	107%	
CCB	-	-0.034		
K1405572-MB	1/2	0.011		
LCSWK1405572	1/2	5.050	101%	
K1405572-001	1/2	0.129		
K1405721-001	1/2	0.135		
K1405721-002	1/2	0.166		
K1405721-002A	1/2	4.884	94%	
K1405721-002D	1/2	0.143		
K1405721-002S	1/2	7.625	93%	
K1405721-003	1/2	0.175		
K1405721-004	1/2	0.144		
CCV	-	8.236	110%	
CCB	-	0.003		
K1405721-005	1/2	0.121		
K1405721-006	1/2	0.119		
K1405818-001	1/2	0.033		
K1405818-002	1/2	0.070		
K1405818-002D	1/2	0.050		
K1405818-002S	1/2	7.982	100%	

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	10ppb (80-120%)	16ppb (75-125%)	94.5mg/kg (82-117%)	40ppb (75-125%)
Selenium	10ppb (80-120%)	16ppb (75-125%)	86.4mg/kg (80-120%)	40ppb (75-125%)
Cx = MSA Corrected Concentration (as per method)				

Analyst 	Date: 6/20/14	Page Number: 1
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COLUMBIA ANALYTICAL SERVICES, INC.

FAA Run Log

Method: (Circle Method Used) 7742 7062 Other: _____ Element: As Se	Service Request # :
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SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)	Comments Post Spike = 5 ppb
K1405818-002SD	1/2	7.490	94%	
K1405818-003	1/2	0.134		
K1405818-004	1/2	0.129		
K1405610-MB	1/10	-0.045		
CCV	-	7.129	95%	
CCB	-	-0.026		
LCSWK1405610	1/10*1/50	5.585	112%	
K1405610-001	1/10	-0.054		
K1405610-001A	1/10	5.975	119%	
K1405610-001D	1/10	-0.023		
K1405610-001S	1/10*1/20	5.513	110%	
K1405610-002	1/10	3.573		
K1405731-001	1/10	-0.049		
K1405731-001D	1/10	-0.025		
K1405731-001S	1/10*1/20	5.606	112%	
K1405731-002	1/10	2.387		
CCV	-	7.099	95%	
CCB	-	-0.017		
K1405758-001	1/10	-0.060		
K1405758-002	1/10	-0.085		
K1405824-001	1/10	-0.052		
K1405824-002	1/10	0.507		
K1405857-001	1/10	-0.039		
K1405857-002	1/10	-0.039		
K1405857-003	1/10	1.556		
K1405461-MB	1/2	-0.008		
LCSWK1405461	1/2	5.213	104%	
K1405461-001	1/2	0.036		
CCV	-	7.319	98%	
CCB	-	0.003		

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	10ppb (80-120%)	16ppb (75-125%)	146.0mg/kg (80-120%)	20ppb (75-125%)
Selenium	10ppb (80-120%)	16ppb (75-125%)	192.0mg/kg (62-147%)	20ppb (75-125%)
Cx = MSA Corrected Concentration (as per method)				

Analyst 	Date: 6/20/14	Page Number: 2
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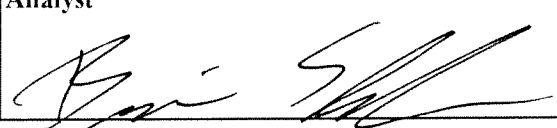
COLUMBIA ANALYTICAL SERVICES, INC.

FAA Run Log

Method: (Circle Method Used) 1742 7062 Other: _____ Element: <u>As Se</u>	Service Request # : _____
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SAMPLE NUMBER	Dilution Factor	Measured (µg/L)	Recoveries (ICV, CCV, CRA, LCS, Matrix Spk.)		Comments Post Spike = 5 ppb
K1405461-001A	1/2	4.987	100%		
K1405461-001D	1/2	0.062			
K1405461-001S	1/2	7.819	98%		
K1405461-012	1/2	0.124			
K1405461-013	1/2	0.059			
K1405461-014	1/2	0.202			
K1405461-015	1/2	0.011			
K1405461-016	1/2	-0.016			
K1405461-017	1/2	0.033			
K1405461-018	1/2	0.004			
CCV	-	7.289	97%		
CCB	-	0.003			

True Values/QC Limits:	LCSW	Water Spike	LCSS (ERA D045540)	Soil Spike
Arsenic:	10ppb (80-120%)	16ppb (75-125%)	146.0mg/kg (80-120%)	20ppb (75-125%)
Selenium	10ppb (80-120%)	16ppb (75-125%)	192.0mg/kg (62-147%)	20ppb (75-125%)
Cx = MSA Corrected Concentration (as per method)				

Analyst 	Date: 6/20/14	Page Number: 3
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Analysis Begun

Logged In Analyst: ALKLS.ALKLSXP315 Technique: AA FIAS-Flame
Spectrometer Model: AAnalyst 200, S/N 200S5061701 Autosampler Model: AS-90

Sample Information File: C:\data-AA\ACQMET10\Sample Information\062014-Sel.sif
Batch ID: 062014-Sel
Results Data Set: 062014-Sel
Results Library: C:\data-AA\ACQMET10\Results\Results Se 2013.mdb

=====
Sequence No.: 1 Autosampler Location: 1
Sample ID: Cal Blk Date Collected: 6/20/2014 9:09:39 AM
Analyst: Data Type: Original

Replicate Data: Cal Blk

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[0.00]	0.004	0.006	0.004			09:09:55	Yes
2		[0.00]	0.003	0.010	0.003			09:10:31	Yes
3		[0.00]	0.003	0.002	0.003			09:11:06	Yes
Mean:		[0.00]	0.003						
SD:		0.00	0.0005						
%RSD:		0.00	16.40						

Auto-zero performed.

=====
Sequence No.: 2 Autosampler Location: 2
Sample ID: Std 0.5 Date Collected: 6/20/2014 9:11:59 AM
Analyst: Data Type: Original

Replicate Data: Std 0.5

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[0.5]	0.013	0.054	0.016			09:12:15	Yes
2		[0.5]	0.012	0.040	0.015			09:12:53	Yes
3		[0.5]	0.013	0.061	0.016			09:13:29	Yes
Mean:		[0.5]	0.013						
SD:		0.0	0.0005						
%RSD:		0.0	4.00						

Standard number 1 applied. [0.5]
Correlation Coef.: 1.000000 Slope: 0.02540 Intercept: 0.00000

=====
Sequence No.: 3 Autosampler Location: 3
Sample ID: Std 1.0 Date Collected: 6/20/2014 9:14:21 AM
Analyst: Data Type: Original

Replicate Data: Std 1.0

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[1.0]	0.024	0.092	0.027			09:14:38	Yes
2		[1.0]	0.025	0.089	0.029			09:15:14	Yes
3		[1.0]	0.026	0.101	0.029			09:15:50	Yes
Mean:		[1.0]	0.025						
SD:		0.0	0.0009						
%RSD:		0.0	3.44						

Standard number 2 applied. [1.0]
Correlation Coef.: 0.999950 Slope: 0.02524 Intercept: 0.00000

=====
Sequence No.: 4 Autosampler Location: 4
Sample ID: Std 5.0 Date Collected: 6/20/2014 9:16:43 AM
Analyst: Data Type: Original

Replicate Data: Std 5.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[5.0]	0.126	0.436	0.129			09:17:01	Yes
2		[5.0]	0.130	0.458	0.133			09:17:37	Yes
3		[5.0]	0.130	0.465	0.133			09:18:13	Yes
Mean:		[5.0]	0.128						
SD:		0.0	0.0025						
%RSD:		0.0	1.96						

Standard number 3 applied. [5.0]
Correlation Coef.: 0.999985 Slope: 0.02567 Intercept: 0.00000

=====

Sequence No.: 5
Sample ID: Std 7.5
Analyst:Autosampler Location: 5
Date Collected: 6/20/2014 9:19:07 AM
Data Type: Original-----
Replicate Data: Std 7.5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[7.5]	0.189	0.687	0.192			09:19:25	Yes
2		[7.5]	0.192	0.689	0.195			09:20:01	Yes
3		[7.5]	0.193	0.687	0.196			09:20:37	Yes
Mean:		[7.5]	0.191						
SD:		0.0	0.0022						
%RSD:		0.0	1.13						

Standard number 4 applied. [7.5]
Correlation Coef.: 0.999980 Slope: 0.02554 Intercept: 0.00000

=====

Sequence No.: 6
Sample ID: Std 10.0
Analyst:Autosampler Location: 6
Date Collected: 6/20/2014 9:21:31 AM
Data Type: Original-----
Replicate Data: Std 10.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1		[10.0]	0.253	0.920	0.256			09:21:50	Yes
2		[10.0]	0.267	0.959	0.270			09:22:26	Yes
3		[10.0]	0.259	0.912	0.262			09:23:01	Yes
Mean:		[10.0]	0.259						
SD:		0.0	0.0070						
%RSD:		0.0	2.70						

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999906 Slope: 0.02577 Intercept: 0.00000

Calibration data for Se 196.03

Equation: Linear Through Zero

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Cal Blk	0.0000	0	0.000	0.00	16.4
Std 0.5	0.0127	0.5	0.493	0.00	4.0
Std 1.0	0.0252	1.0	0.978	0.00	3.4
Std 5.0	0.1285	5.0	4.985	0.00	2.0
Std 7.5	0.1911	7.5	7.417	0.00	1.1
Std 10.0	0.2595	10.0	10.071	0.01	2.7

Correlation Coef.: 0.999906 Slope: 0.02577 Intercept: 0.00000

=====

Sequence No.: 7
Sample ID: ICV
Analyst:Autosampler Location: 7
Date Collected: 6/20/2014 9:23:57 AM
Data Type: Original

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.464	7.464	0.192	0.694	0.195			09:24:16	Yes
2	7.474	7.474	0.193	0.689	0.196			09:24:52	Yes
3	7.492	7.492	0.193	0.691	0.196			09:25:28	Yes
Mean:	7.477	7.477	0.193						
SD:	0.014	0.014	0.0004						
%RSD:	0.186	0.186	0.19						

QC value within limits for Se 196.03 Recovery = 99.69%
All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB
Analyst:

Autosampler Location: 1
Date Collected: 6/20/2014 9:26:24 AM
Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.187	0.187	0.005	0.086	0.008			09:26:39	Yes
Changing BOC									
2	0.098	0.098	0.003	0.011	0.006			09:27:15	Yes
3	-0.133	-0.133	-0.003	-0.045	-0.000			09:27:51	Yes
Changing BOC									
Mean:	0.051	0.051	0.001						
SD:	0.165	0.165	0.0043						
%RSD:	326.6	326.6	326.56						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CRA
Analyst:

Autosampler Location: 2
Date Collected: 6/20/2014 9:28:43 AM
Data Type: Original

Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.492	0.492	0.013	0.044	0.016			09:29:00	Yes
2	0.486	0.486	0.013	0.058	0.016			09:29:36	Yes
3	0.504	0.504	0.013	0.054	0.016			09:30:12	Yes
Mean:	0.494	0.494	0.013						
SD:	0.009	0.009	0.0002						
%RSD:	1.827	1.827	1.83						

QC value within limits for Se 196.03 Recovery = 98.76%
All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV
Analyst:

Autosampler Location: 5
Date Collected: 6/20/2014 9:31:05 AM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	12.33	12.33	0.318	1.111	0.321			09:31:23	Yes
Sample concentration is greater than that of the highest standard.									
2	7.023	7.023	0.181	0.624	0.184			09:31:59	Yes
3	6.657	6.657	0.172	0.919	0.175			09:32:34	Yes
Changing BOC									
Mean:	8.670	8.670	0.223						
SD:	3.175	3.175	0.0818						
%RSD:	36.62	36.62	36.62						

Changing BOC

QC value greater than the upper limit for Se 196.03 Recovery = 115.61%
 QC Failed. Stop the analysis.
 User canceled analysis.

=====
 Analysis Begun

Logged In Analyst: ALKLS.ALKLSXP315 Technique: AA FIAS-Flame
 Spectrometer Model: AAnalyst 200, S/N 200S5061701 Autosampler Model: AS-90

Sample Information File: C:\data-AA\ACOMET10\Sample Information\062014-Sel.sif
 Batch ID: 062014-Sel
 Results Data Set: 062014-Sel
 Results Library: C:\data-AA\ACOMET10\Results\Results Se 2013.mdb

=====
 Sequence No.: 10 Autosampler Location: 5
 Sample ID: CCV Date Collected: 6/20/2014 9:37:06 AM
 Analyst: Data Type: Original

 Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.880	7.880	0.203	0.737	0.206			09:37:24	Yes
2	8.088	8.088	0.208	0.756	0.212			09:38:00	Yes
3	8.180	8.180	0.211	0.771	0.214			09:38:35	Yes
Mean:	8.049	8.049	0.207						
SD:	0.154	0.154	0.0040						
%RSD:	1.908	1.908	1.91						

QC value within limits for Se 196.03 Recovery = 107.32%
 All analyte(s) passed QC.

=====
 Sequence No.: 11 Autosampler Location: 1
 Sample ID: CCB Date Collected: 6/20/2014 9:39:30 AM
 Analyst: Data Type: Original

 Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.003	0.003	0.000	-0.011	0.003			09:39:46	Yes
2	-0.064	-0.064	-0.002	-0.018	0.001			09:40:22	Yes
3	-0.042	-0.042	-0.001	-0.005	0.002			09:40:58	Yes
Mean:	-0.034	-0.034	-0.001						
SD:	0.034	0.034	0.0009						
%RSD:	98.82	98.82	98.82						

QC value within limits for Se 196.03 Recovery = Not calculated
 All analyte(s) passed QC.

=====
 Sequence No.: 12 Autosampler Location: 9
 Sample ID: K1405572-MB Date Collected: 6/20/2014 9:41:50 AM
 Analyst: Data Type: Original

 Replicate Data: K1405572-MB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.005	-0.005	-0.000	0.013	0.003			09:42:06	Yes
2	0.007	0.007	0.000	0.012	0.003			09:42:42	Yes
3	0.029	0.029	0.001	0.005	0.004			09:43:17	Yes
Mean:	0.011	0.011	0.000						
SD:	0.017	0.017	0.0004						
%RSD:	162.2	162.2	162.15						

Sequence No.: 13
 Sample ID: LCSWK1405572
 Analyst:

Autosampler Location: 10
 Date Collected: 6/20/2014 9:44:10 AM
 Data Type: Original

 Replicate Data: LCSWK1405572

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.010	5.010	0.129	0.489	0.132			09:44:26	Yes
2	5.120	5.120	0.132	0.520	0.135			09:45:02	Yes
3	5.019	5.019	0.129	0.500	0.132			09:45:38	Yes
Mean:	5.050	5.050	0.130						
SD:	0.061	0.061	0.0016						
%RSD:	1.211	1.211	1.21						

Sequence No.: 14
 Sample ID: K1405572-001
 Analyst:

Autosampler Location: 11
 Date Collected: 6/20/2014 9:46:31 AM
 Data Type: Original

 Replicate Data: K1405572-001

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.127	0.127	0.003	0.016	0.006			09:46:48	Yes
2	0.131	0.131	0.003	0.023	0.006			09:47:24	Yes
3	0.130	0.130	0.003	0.027	0.006			09:48:00	Yes
Mean:	0.129	0.129	0.003						
SD:	0.002	0.002	0.0000						
%RSD:	1.490	1.490	1.49						

Sequence No.: 15
 Sample ID: K1405721-001
 Analyst:

Autosampler Location: 12
 Date Collected: 6/20/2014 9:48:53 AM
 Data Type: Original

 Replicate Data: K1405721-001

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.184	0.184	0.005	0.022	0.008			09:49:10	Yes
2	0.117	0.117	0.003	0.018	0.006			09:49:46	Yes
3	0.104	0.104	0.003	0.011	0.006			09:50:22	Yes
Mean:	0.135	0.135	0.003						
SD:	0.043	0.043	0.0011						
%RSD:	32.00	32.00	32.00						

Sequence No.: 16
 Sample ID: K1405721-002
 Analyst:

Autosampler Location: 13
 Date Collected: 6/20/2014 9:51:16 AM
 Data Type: Original

 Replicate Data: K1405721-002

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.201	0.201	0.005	0.023	0.008			09:51:33	Yes
2	0.165	0.165	0.004	0.028	0.007			09:52:09	Yes
3	0.132	0.132	0.003	0.026	0.007			09:52:45	Yes
Mean:	0.166	0.166	0.004						
SD:	0.034	0.034	0.0009						
%RSD:	20.74	20.74	20.74						

Sequence No.: 17
 Sample ID: K1405721-002A
 Analyst:

Autosampler Location: 14
 Date Collected: 6/20/2014 9:53:40 AM
 Data Type: Original

Replicate Data: K1405721-002A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.793	4.793	0.124	0.488	0.127			09:53:58	Yes
2	4.885	4.885	0.126	0.480	0.129			09:54:34	Yes
3	4.973	4.973	0.128	0.499	0.131			09:55:09	Yes
Mean:	4.884	4.884	0.126						
SD:	0.090	0.090	0.0023						
%RSD:	1.839	1.839	1.84						

Sequence No.: 18

Autosampler Location: 15

Sample ID: K1405721-002D

Date Collected: 6/20/2014 9:56:04 AM

Analyst:

Data Type: Original

Replicate Data: K1405721-002D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.174	0.174	0.004	0.024	0.008			09:56:22	Yes
2	0.118	0.118	0.003	0.019	0.006			09:56:58	Yes
3	0.136	0.136	0.003	0.016	0.007			09:57:34	Yes
Mean:	0.143	0.143	0.004						
SD:	0.029	0.029	0.0007						
%RSD:	20.30	20.30	20.30						

Sequence No.: 19

Autosampler Location: 16

Sample ID: K1405721-002S

Date Collected: 6/20/2014 9:58:29 AM

Analyst:

Data Type: Original

Replicate Data: K1405721-002S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.637	7.637	0.197	0.798	0.200			09:58:49	Yes
2	7.604	7.604	0.196	0.801	0.199			09:59:25	Yes
3	7.635	7.635	0.197	0.791	0.200			10:00:01	Yes
Mean:	7.625	7.625	0.196						
SD:	0.018	0.018	0.0005						
%RSD:	0.242	0.242	0.24						

Sequence No.: 20

Autosampler Location: 17

Sample ID: K1405721-003

Date Collected: 6/20/2014 10:00:57 AM

Analyst:

Data Type: Original

Replicate Data: K1405721-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.177	0.177	0.005	0.021	0.008			10:01:13	Yes
2	0.193	0.193	0.005	0.031	0.008			10:01:49	Yes
3	0.154	0.154	0.004	0.023	0.007			10:02:24	Yes
Mean:	0.175	0.175	0.005						
SD:	0.019	0.019	0.0005						
%RSD:	11.04	11.04	11.04						

Sequence No.: 21

Autosampler Location: 18

Sample ID: K1405721-004

Date Collected: 6/20/2014 10:03:17 AM

Analyst:

Data Type: Original

Replicate Data: K1405721-004

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.146	0.146	0.004	0.011	0.007			10:03:32	Yes
2	0.146	0.146	0.004	0.030	0.007			10:04:08	Yes

3 0.140 0.140 0.004 0.022 0.007 10:04:44 Yes
 Mean: 0.144 0.144 0.004
 SD: 0.004 0.004 0.0001
 %RSD: 2.485 2.485 2.49

Sequence No.: 22 Autosampler Location: 5
 Sample ID: CCV Date Collected: 6/20/2014 10:05:36 AM
 Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	8.222	8.222	0.212	0.791	0.215			10:05:55	Yes
2	8.288	8.288	0.214	0.793	0.217			10:06:30	Yes
3	8.199	8.199	0.211	0.788	0.214			10:07:06	Yes
Mean:	8.236	8.236	0.212						
SD:	0.046	0.046	0.0012						
%RSD:	0.560	0.560	0.56						

QC value within limits for Se 196.03 Recovery = 109.82%
 All analyte(s) passed QC.

Sequence No.: 23 Autosampler Location: 1
 Sample ID: CCB Date Collected: 6/20/2014 10:08:01 AM
 Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.025	0.025	0.001	0.005	0.004			10:08:17	Yes
2	-0.006	-0.006	-0.000	0.011	0.003			10:08:53	Yes
3	-0.010	-0.010	-0.000	0.012	0.003			10:09:29	Yes
Mean:	0.003	0.003	0.000						
SD:	0.019	0.019	0.0005						
%RSD:	644.8	644.8	644.77						

QC value within limits for Se 196.03 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 24 Autosampler Location: 19
 Sample ID: K1405721-005 Date Collected: 6/20/2014 10:10:21 AM
 Analyst: Data Type: Original

Replicate Data: K1405721-005

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.098	0.098	0.003	0.003	0.006			10:10:37	Yes
2	0.142	0.142	0.004	0.025	0.007			10:11:13	Yes
3	0.123	0.123	0.003	0.018	0.006			10:11:49	Yes
Mean:	0.121	0.121	0.003						
SD:	0.022	0.022	0.0006						
%RSD:	18.31	18.31	18.31						

Sequence No.: 25 Autosampler Location: 20
 Sample ID: K1405721-006 Date Collected: 6/20/2014 10:12:41 AM
 Analyst: Data Type: Original

Replicate Data: K1405721-006

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.164	0.164	0.004	0.034	0.007			10:12:57	Yes
2	0.102	0.102	0.003	0.014	0.006			10:13:33	Yes
3	0.093	0.093	0.002	0.015	0.006			10:14:09	Yes

Mean: 0.119 0.119 0.003
 SD: 0.039 0.039 0.0010
 %RSD: 32.39 32.39 32.39

=====
 Sequence No.: 26 Autosampler Location: 21
 Sample ID: K1405818-001 Date Collected: 6/20/2014 10:15:01 AM
 Analyst: Data Type: Original
 =====

Replicate Data: K1405818-001

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.055	0.055	0.001	0.009	0.005			10:15:17	Yes
2	0.043	0.043	0.001	0.012	0.004			10:15:53	Yes
3	0.000	0.000	0.000	-0.020	0.003			10:16:29	Yes
Mean:	0.033	0.033	0.001						
SD:	0.029	0.029	0.0008						
%RSD:	88.45	88.45	88.45						

=====
 Sequence No.: 27 Autosampler Location: 22
 Sample ID: K1405818-002 Date Collected: 6/20/2014 10:17:22 AM
 Analyst: Data Type: Original
 =====

Replicate Data: K1405818-002

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.135	0.135	0.003	0.025	0.007			10:17:39	Yes
2	0.049	0.049	0.001	0.008	0.004			10:18:15	Yes
3	0.026	0.026	0.001	0.004	0.004			10:18:51	Yes
Mean:	0.070	0.070	0.002						
SD:	0.058	0.058	0.0015						
%RSD:	82.79	82.79	82.79						

=====
 Sequence No.: 28 Autosampler Location: 23
 Sample ID: K1405818-002D Date Collected: 6/20/2014 10:19:44 AM
 Analyst: Data Type: Original
 =====

Replicate Data: K1405818-002D

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.041	0.041	0.001	0.015	0.004			10:20:01	Yes
2	0.029	0.029	0.001	-0.006	0.004			10:20:36	Yes
3	0.079	0.079	0.002	0.014	0.005			10:21:12	Yes
Mean:	0.050	0.050	0.001						
SD:	0.026	0.026	0.0007						
%RSD:	52.94	52.94	52.94						

=====
 Sequence No.: 29 Autosampler Location: 24
 Sample ID: K1405818-002S Date Collected: 6/20/2014 10:22:07 AM
 Analyst: Data Type: Original
 =====

Replicate Data: K1405818-002S

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.879	7.879	0.203	0.814	0.206			10:22:24	Yes
2	8.054	8.054	0.208	0.813	0.211			10:23:00	Yes
3	8.012	8.012	0.206	0.818	0.210			10:23:36	Yes
Mean:	7.982	7.982	0.206						
SD:	0.091	0.091	0.0023						
%RSD:	1.142	1.142	1.14						

Sequence No.: 30
 Sample ID: K1405818-002SD
 Analyst:

Autosampler Location: 25
 Date Collected: 6/20/2014 10:24:31 AM
 Data Type: Original

 Replicate Data: K1405818-002SD

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.431	7.431	0.191	0.763	0.195			10:24:49	Yes
2	7.524	7.524	0.194	0.780	0.197			10:25:24	Yes
3	7.515	7.515	0.194	0.798	0.197			10:26:00	Yes
Mean:	7.490	7.490	0.193						
SD:	0.052	0.052	0.0013						
%RSD:	0.689	0.689	0.69						

Sequence No.: 31
 Sample ID: K1405818-003
 Analyst:

Autosampler Location: 26
 Date Collected: 6/20/2014 10:26:54 AM
 Data Type: Original

 Replicate Data: K1405818-003

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.172	0.172	0.004	0.025	0.008			10:27:12	Yes
2	0.137	0.137	0.004	0.028	0.007			10:27:48	Yes
3	0.091	0.091	0.002	0.013	0.005			10:28:23	Yes
Mean:	0.134	0.134	0.003						
SD:	0.041	0.041	0.0010						
%RSD:	30.47	30.47	30.47						

Sequence No.: 32
 Sample ID: K1405818-004
 Analyst:

Autosampler Location: 27
 Date Collected: 6/20/2014 10:29:17 AM
 Data Type: Original

 Replicate Data: K1405818-004

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.119	0.119	0.003	0.013	0.006			10:29:35	Yes
2	0.091	0.091	0.002	0.007	0.005			10:30:11	Yes
3	0.177	0.177	0.005	0.036	0.008			10:30:46	Yes
Mean:	0.129	0.129	0.003						
SD:	0.044	0.044	0.0011						
%RSD:	33.93	33.93	33.93						

Sequence No.: 33
 Sample ID: K1405610-MB
 Analyst:

Autosampler Location: 28
 Date Collected: 6/20/2014 10:31:41 AM
 Data Type: Original

 Replicate Data: K1405610-MB

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.040	-0.040	-0.001	0.002	0.002			10:31:59	Yes
2	-0.054	-0.054	-0.001	0.002	0.002			10:32:35	Yes
3	-0.041	-0.041	-0.001	0.005	0.002			10:33:11	Yes
Mean:	-0.045	-0.045	-0.001						
SD:	0.008	0.008	0.0002						
%RSD:	17.64	17.64	17.64						

Sequence No.: 34
 Sample ID: CCV
 Analyst:

Autosampler Location: 5
 Date Collected: 6/20/2014 10:34:06 AM
 Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.105	7.105	0.183	0.682	0.186			10:34:25	Yes
2	7.205	7.205	0.186	0.690	0.189			10:35:01	Yes
3	7.076	7.076	0.182	0.680	0.185			10:35:36	Yes
Mean:	7.129	7.129	0.184						
SD:	0.068	0.068	0.0017						
%RSD:	0.947	0.947	0.95						

QC value within limits for Se 196.03 Recovery = 95.05%
All analyte(s) passed QC.

Sequence No.: 35
Sample ID: CCB
Analyst:

Autosampler Location: 1
Date Collected: 6/20/2014 10:36:32 AM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.004	0.004	0.000	0.004	0.003			10:36:48	Yes
2	-0.052	-0.052	-0.001	-0.002	0.002			10:37:23	Yes
3	-0.030	-0.030	-0.001	-0.003	0.002			10:37:59	Yes
Mean:	-0.026	-0.026	-0.001						
SD:	0.028	0.028	0.0007						
%RSD:	109.5	109.5	109.48						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 36
Sample ID: LCSWK1405610
Analyst:

Autosampler Location: 29
Date Collected: 6/20/2014 10:38:52 AM
Data Type: Original

Replicate Data: LCSWK1405610

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.626	5.626	0.145	0.542	0.148			10:39:10	Yes
2	5.551	5.551	0.143	0.538	0.146			10:39:46	Yes
3	5.578	5.578	0.144	0.538	0.147			10:40:22	Yes
Mean:	5.585	5.585	0.144						
SD:	0.038	0.038	0.0010						
%RSD:	0.677	0.677	0.68						

Sequence No.: 37
Sample ID: K1405610-001
Analyst:

Autosampler Location: 30
Date Collected: 6/20/2014 10:41:17 AM
Data Type: Original

Replicate Data: K1405610-001

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.042	-0.042	-0.001	-0.007	0.002			10:41:36	Yes
2	-0.061	-0.061	-0.002	-0.001	0.002			10:42:12	Yes
3	-0.060	-0.060	-0.002	0.004	0.002			10:42:47	Yes
Mean:	-0.054	-0.054	-0.001						
SD:	0.011	0.011	0.0003						
%RSD:	20.02	20.02	20.02						

Sequence No.: 38
Sample ID: K1405610-001A
Analyst:

Autosampler Location: 31
Date Collected: 6/20/2014 10:43:43 AM
Data Type: Original

Replicate Data: K1405610-001A

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.966	5.966	0.154	0.573	0.157			10:44:03	Yes
2	5.973	5.973	0.154	0.562	0.157			10:44:38	Yes
3	5.985	5.985	0.154	0.569	0.157			10:45:14	Yes
Mean:	5.975	5.975	0.154						
SD:	0.010	0.010	0.0003						
%RSD:	0.164	0.164	0.16						

Sequence No.: 39
Sample ID: K1405610-001D
Analyst:

Autosampler Location: 32
Date Collected: 6/20/2014 10:46:09 AM
Data Type: Original

Replicate Data: K1405610-001D

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.001	-0.001	-0.000	0.012	0.003			10:46:24	Yes
2	-0.029	-0.029	-0.001	0.007	0.002			10:47:00	Yes
3	-0.038	-0.038	-0.001	0.004	0.002			10:47:35	Yes
Mean:	-0.023	-0.023	-0.001						
SD:	0.019	0.019	0.0005						
%RSD:	84.64	84.64	84.64						

Sequence No.: 40
Sample ID: K1405610-001S
Analyst:

Autosampler Location: 33
Date Collected: 6/20/2014 10:48:27 AM
Data Type: Original

Replicate Data: K1405610-001S

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.477	5.477	0.141	0.542	0.144			10:48:42	Yes
2	5.460	5.460	0.141	0.551	0.144			10:49:18	Yes
3	5.603	5.603	0.144	0.534	0.147			10:49:54	Yes
Mean:	5.513	5.513	0.142						
SD:	0.078	0.078	0.0020						
%RSD:	1.418	1.418	1.42						

Sequence No.: 41
Sample ID: K1405610-002
Analyst:

Autosampler Location: 34
Date Collected: 6/20/2014 10:50:46 AM
Data Type: Original

Replicate Data: K1405610-002

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.562	3.562	0.092	0.366	0.095			10:51:02	Yes
2	3.593	3.593	0.093	0.359	0.096			10:51:38	Yes
3	3.565	3.565	0.092	0.355	0.095			10:52:14	Yes
Mean:	3.573	3.573	0.092						
SD:	0.017	0.017	0.0004						
%RSD:	0.487	0.487	0.49						

Sequence No.: 42
Sample ID: K1405731-001
Analyst:

Autosampler Location: 35
Date Collected: 6/20/2014 10:53:07 AM
Data Type: Original

Replicate Data: K1405731-001

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.030	-0.030	-0.001	0.003	0.002			10:53:23	Yes
2	-0.073	-0.073	-0.002	-0.003	0.001			10:53:59	Yes
3	-0.045	-0.045	-0.001	-0.003	0.002			10:54:34	Yes

Mean: -0.049 -0.049 -0.001
SD: 0.022 0.022 0.0006
%RSD: 44.97 44.97 44.97

Sequence No.: 43 Autosampler Location: 36
Sample ID: K1405731-001D Date Collected: 6/20/2014 10:55:27 AM
Analyst: Data Type: Original

Replicate Data: K1405731-001D

Table with 10 columns: Repl #, SampleConc ug/L, StndConc ug/L, BlnkCorr Signal, Peak Area, Peak Height, Bkgnd Area, Bkgnd Height, Time, Peak Stored. Contains 3 replicate rows and summary statistics.

Sequence No.: 44 Autosampler Location: 37
Sample ID: K1405731-001S Date Collected: 6/20/2014 10:57:47 AM
Analyst: Data Type: Original

Replicate Data: K1405731-001S

Table with 10 columns: Repl #, SampleConc ug/L, StndConc ug/L, BlnkCorr Signal, Peak Area, Peak Height, Bkgnd Area, Bkgnd Height, Time, Peak Stored. Contains 3 replicate rows and summary statistics.

Sequence No.: 45 Autosampler Location: 38
Sample ID: K1405731-002 Date Collected: 6/20/2014 11:00:09 AM
Analyst: Data Type: Original

Replicate Data: K1405731-002

Table with 10 columns: Repl #, SampleConc ug/L, StndConc ug/L, BlnkCorr Signal, Peak Area, Peak Height, Bkgnd Area, Bkgnd Height, Time, Peak Stored. Contains 3 replicate rows and summary statistics.

Sequence No.: 46 Autosampler Location: 5
Sample ID: CCV Date Collected: 6/20/2014 11:02:31 AM
Analyst: Data Type: Original

Replicate Data: CCV

Table with 10 columns: Repl #, SampleConc ug/L, StndConc ug/L, BlnkCorr Signal, Peak Area, Peak Height, Bkgnd Area, Bkgnd Height, Time, Peak Stored. Contains 3 replicate rows and summary statistics.

QC value within limits for Se 196.03 Recovery = 94.66%
All analyte(s) passed QC.

Sequence No.: 47
Sample ID: CCB
Analyst:

Autosampler Location: 1
Date Collected: 6/20/2014 11:04:55 AM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.044	0.044	0.001	0.023	0.004			11:05:12	Yes
2	-0.066	-0.066	-0.002	-0.015	0.001			11:05:48	Yes
3	-0.028	-0.028	-0.001	0.001	0.002			11:06:23	Yes
Mean:	-0.017	-0.017	-0.000						
SD:	0.056	0.056	0.0014						
%RSD:	336.9	336.9	336.86						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 48
Sample ID: K1405758-001
Analyst:

Autosampler Location: 39
Date Collected: 6/20/2014 11:07:16 AM
Data Type: Original

Replicate Data: K1405758-001

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.012	-0.012	-0.000	-0.060	0.003			11:07:33	Yes
2	-0.059	-0.059	-0.002	-0.005	0.002			11:08:09	Yes
3	-0.111	-0.111	-0.003	-0.048	0.000			11:08:44	Yes
Mean:	-0.060	-0.060	-0.002						
SD:	0.050	0.050	0.0013						
%RSD:	82.22	82.22	82.22						

Sequence No.: 49
Sample ID: K1405758-002
Analyst:

Autosampler Location: 40
Date Collected: 6/20/2014 11:09:38 AM
Data Type: Original

Replicate Data: K1405758-002

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.091	-0.091	-0.002	-0.016	0.001			11:09:55	Yes
2	-0.087	-0.087	-0.002	-0.021	0.001			11:10:31	Yes
3	-0.079	-0.079	-0.002	-0.002	0.001			11:11:07	Yes
Mean:	-0.085	-0.085	-0.002						
SD:	0.006	0.006	0.0002						
%RSD:	6.939	6.939	6.94						

Sequence No.: 50
Sample ID: K1405824-001
Analyst:

Autosampler Location: 41
Date Collected: 6/20/2014 11:12:01 AM
Data Type: Original

Replicate Data: K1405824-001

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.067	-0.067	-0.002	0.001	0.001			11:12:19	Yes
2	-0.064	-0.064	-0.002	-0.004	0.001			11:12:55	Yes
3	-0.025	-0.025	-0.001	0.012	0.002			11:13:30	Yes
Mean:	-0.052	-0.052	-0.001						
SD:	0.023	0.023	0.0006						
%RSD:	44.82	44.82	44.82						

Sequence No.: 51

Autosampler Location: 42

Sample ID: K1405824-002
Analyst:

Date Collected: 6/20/2014 11:14:24 AM
Data Type: Original

Replicate Data: K1405824-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.457	0.457	0.012	0.067	0.015			11:14:42	Yes
2	0.588	0.588	0.015	0.106	0.018			11:15:18	Yes
3	0.476	0.476	0.012	0.059	0.015			11:15:54	Yes
Mean:	0.507	0.507	0.013						
SD:	0.070	0.070	0.0018						
%RSD:	13.90	13.90	13.90						

Sequence No.: 52
Sample ID: K1405857-001
Analyst:

Autosampler Location: 43
Date Collected: 6/20/2014 11:16:48 AM
Data Type: Original

Replicate Data: K1405857-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.082	-0.082	-0.002	-0.003	0.001			11:17:06	Yes
2	-0.058	-0.058	-0.001	-0.004	0.002			11:17:42	Yes
3	0.023	0.023	0.001	0.009	0.004			11:18:18	Yes
Mean:	-0.039	-0.039	-0.001						
SD:	0.055	0.055	0.0014						
%RSD:	141.4	141.4	141.39						

Sequence No.: 53
Sample ID: K1405857-002
Analyst:

Autosampler Location: 44
Date Collected: 6/20/2014 11:19:12 AM
Data Type: Original

Replicate Data: K1405857-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.030	-0.030	-0.001	0.000	0.002			11:19:31	Yes
2	-0.032	-0.032	-0.001	0.006	0.002			11:20:07	Yes
3	-0.054	-0.054	-0.001	0.002	0.002			11:20:42	Yes
Mean:	-0.039	-0.039	-0.001						
SD:	0.013	0.013	0.0003						
%RSD:	34.66	34.66	34.66						

Sequence No.: 54
Sample ID: K1405857-003
Analyst:

Autosampler Location: 45
Date Collected: 6/20/2014 11:21:37 AM
Data Type: Original

Replicate Data: K1405857-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.537	1.537	0.040	0.155	0.043			11:21:56	Yes
2	1.581	1.581	0.041	0.172	0.044			11:22:31	Yes
3	1.551	1.551	0.040	0.157	0.043			11:23:07	Yes
Mean:	1.556	1.556	0.040						
SD:	0.022	0.022	0.0006						
%RSD:	1.433	1.433	1.43						

Sequence No.: 55
Sample ID: K1405461-MB
Analyst:

Autosampler Location: 46
Date Collected: 6/20/2014 11:24:02 AM
Data Type: Original

Replicate Data: K1405461-MB

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.020	0.020	0.001	0.002	0.004			11:24:20	Yes
2	-0.002	-0.002	-0.000	0.016	0.003			11:24:56	Yes
3	-0.042	-0.042	-0.001	0.006	0.002			11:25:32	Yes
Mean:	-0.008	-0.008	-0.000						
SD:	0.031	0.031	0.0008						
%RSD:	381.7	381.7	381.71						

```

=====
Sequence No.: 56                               Autosampler Location: 47
Sample ID: LCSWK1405461                       Date Collected: 6/20/2014 11:26:27 AM
Analyst:                                       Data Type: Original
=====

```

Replicate Data: LCSWK1405461

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.140	5.140	0.132	0.531	0.136			11:26:46	Yes
2	5.126	5.126	0.132	0.523	0.135			11:27:22	Yes
3	5.373	5.373	0.138	0.545	0.142			11:27:58	Yes
Mean:	5.213	5.213	0.134						
SD:	0.139	0.139	0.0036						
%RSD:	2.669	2.669	2.67						

```

=====
Sequence No.: 57                               Autosampler Location: 48
Sample ID: K1405461-001                       Date Collected: 6/20/2014 11:28:53 AM
Analyst:                                       Data Type: Original
=====

```

Replicate Data: K1405461-001

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.060	0.060	0.002	0.011	0.005			11:29:08	Yes
2	0.018	0.018	0.000	0.002	0.004			11:29:44	Yes
3	0.031	0.031	0.001	0.002	0.004			11:30:20	Yes
Mean:	0.036	0.036	0.001						
SD:	0.022	0.022	0.0006						
%RSD:	59.75	59.75	59.75						

```

=====
Sequence No.: 58                               Autosampler Location: 5
Sample ID: CCV                                 Date Collected: 6/20/2014 11:31:12 AM
Analyst:                                       Data Type: Original
=====

```

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.269	7.269	0.187	0.701	0.190			11:31:30	Yes
2	7.300	7.300	0.188	0.697	0.191			11:32:06	Yes
3	7.389	7.389	0.190	0.724	0.194			11:32:42	Yes
Mean:	7.319	7.319	0.189						
SD:	0.063	0.063	0.0016						
%RSD:	0.855	0.855	0.85						

QC value within limits for Se 196.03 Recovery = 97.59%
All analyte(s) passed QC.

```

=====
Sequence No.: 59                               Autosampler Location: 1
Sample ID: CCB                                 Date Collected: 6/20/2014 11:33:36 AM
Analyst:                                       Data Type: Original
=====

```

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.054	0.054	0.001	0.022	0.005			11:33:53	Yes

2	0.017	0.017	0.000	0.016	0.004			11:34:29	Yes
3	-0.062	-0.062	-0.002	-0.003	0.002			11:35:04	Yes
Mean:	0.003	0.003	0.000						
SD:	0.059	0.059	0.0015						
%RSD:	>999.9%	>999.9%	>999.9%						

QC value within limits for Se 196.03 Recovery = Not calculated

All analyte(s) passed QC.

```

=====
Sequence No.: 60                               Autosampler Location: 49
Sample ID: K1405461-001A                       Date Collected: 6/20/2014 11:35:57 AM
Analyst:                                         Data Type: Original
=====

```

Replicate Data: K1405461-001A

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.982	4.982	0.128	0.524	0.132			11:36:13	Yes
2	4.930	4.930	0.127	0.522	0.130			11:36:49	Yes
3	5.049	5.049	0.130	0.520	0.133			11:37:24	Yes
Mean:	4.987	4.987	0.129						
SD:	0.060	0.060	0.0015						
%RSD:	1.201	1.201	1.20						

```

=====
Sequence No.: 61                               Autosampler Location: 50
Sample ID: K1405461-001D                       Date Collected: 6/20/2014 11:38:16 AM
Analyst:                                         Data Type: Original
=====

```

Replicate Data: K1405461-001D

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.058	0.058	0.001	0.004	0.005			11:38:32	Yes
2	0.069	0.069	0.002	0.024	0.005			11:39:07	Yes
3	0.059	0.059	0.002	0.015	0.005			11:39:43	Yes
Mean:	0.062	0.062	0.002						
SD:	0.007	0.007	0.0002						
%RSD:	10.49	10.49	10.49						

```

=====
Sequence No.: 62                               Autosampler Location: 51
Sample ID: K1405461-001S                       Date Collected: 6/20/2014 11:40:35 AM
Analyst:                                         Data Type: Original
=====

```

Replicate Data: K1405461-001S

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.677	7.677	0.198	0.828	0.201			11:40:51	Yes
2	8.186	8.186	0.211	0.838	0.214			11:41:27	Yes
3	7.594	7.594	0.196	0.832	0.199			11:42:03	Yes
Mean:	7.819	7.819	0.201						
SD:	0.321	0.321	0.0083						
%RSD:	4.103	4.103	4.10						

```

=====
Sequence No.: 63                               Autosampler Location: 52
Sample ID: K1405461-012                       Date Collected: 6/20/2014 11:42:56 AM
Analyst:                                         Data Type: Original
=====

```

Replicate Data: K1405461-012

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.180	0.180	0.005	0.024	0.008			11:43:12	Yes
2	0.112	0.112	0.003	0.024	0.006			11:43:48	Yes
3	0.080	0.080	0.002	0.007	0.005			11:44:23	Yes
Mean:	0.124	0.124	0.003						

SD: 0.051 0.051 0.0013
%RSD: 41.27 41.27 41.27

Sequence No.: 64 Autosampler Location: 53
Sample ID: K1405461-013 Date Collected: 6/20/2014 11:45:16 AM
Analyst: Data Type: Original

Replicate Data: K1405461-013

Table with 10 columns: Repl #, SampleConc ug/L, StndConc ug/L, BlnkCorr Signal, Peak Area, Peak Height, Bkgnd Area, Bkgnd Height, Time, Peak Stored. Contains 3 replicate rows and summary statistics.

Sequence No.: 65 Autosampler Location: 54
Sample ID: K1405461-014 Date Collected: 6/20/2014 11:47:37 AM
Analyst: Data Type: Original

Replicate Data: K1405461-014

Table with 10 columns: Repl #, SampleConc ug/L, StndConc ug/L, BlnkCorr Signal, Peak Area, Peak Height, Bkgnd Area, Bkgnd Height, Time, Peak Stored. Contains 3 replicate rows and summary statistics.

Sequence No.: 66 Autosampler Location: 55
Sample ID: K1405461-015 Date Collected: 6/20/2014 11:49:59 AM
Analyst: Data Type: Original

Replicate Data: K1405461-015

Table with 10 columns: Repl #, SampleConc ug/L, StndConc ug/L, BlnkCorr Signal, Peak Area, Peak Height, Bkgnd Area, Bkgnd Height, Time, Peak Stored. Contains 3 replicate rows and summary statistics.

Sequence No.: 67 Autosampler Location: 56
Sample ID: K1405461-016 Date Collected: 6/20/2014 11:52:21 AM
Analyst: Data Type: Original

Replicate Data: K1405461-016

Table with 10 columns: Repl #, SampleConc ug/L, StndConc ug/L, BlnkCorr Signal, Peak Area, Peak Height, Bkgnd Area, Bkgnd Height, Time, Peak Stored. Contains 3 replicate rows and summary statistics.

Sequence No.: 68 Autosampler Location: 57

Sample ID: K1405461-017
Analyst:

Date Collected: 6/20/2014 11:54:43 AM
Data Type: Original

Replicate Data: K1405461-017

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.067	0.067	0.002	0.020	0.005			11:55:00	Yes
2	0.013	0.013	0.000	0.008	0.003			11:55:36	Yes
3	0.018	0.018	0.000	0.004	0.004			11:56:12	Yes
Mean:	0.033	0.033	0.001						
SD:	0.030	0.030	0.0008						
%RSD:	90.84	90.84	90.84						

=====

Sequence No.: 69
Sample ID: K1405461-018
Analyst:

Autosampler Location: 58
Date Collected: 6/20/2014 11:57:05 AM
Data Type: Original

Replicate Data: K1405461-018

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.011	-0.011	-0.000	0.004	0.003			11:57:23	Yes
2	-0.003	-0.003	-0.000	0.005	0.003			11:57:58	Yes
3	0.025	0.025	0.001	0.018	0.004			11:58:34	Yes
Mean:	0.004	0.004	0.000						
SD:	0.019	0.019	0.0005						
%RSD:	478.8	478.8	478.76						

=====

Sequence No.: 70
Sample ID: CCV
Analyst:

Autosampler Location: 5
Date Collected: 6/20/2014 11:59:28 AM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.334	7.334	0.189	0.720	0.192			11:59:46	Yes
2	7.286	7.286	0.188	0.724	0.191			12:00:22	Yes
3	7.248	7.248	0.187	0.715	0.190			12:00:58	Yes
Mean:	7.289	7.289	0.188						
SD:	0.043	0.043	0.0011						
%RSD:	0.585	0.585	0.59						

QC value within limits for Se 196.03 Recovery = 97.19%
All analyte(s) passed QC.

=====

Sequence No.: 71
Sample ID: CCB
Analyst:

Autosampler Location: 1
Date Collected: 6/20/2014 12:01:52 PM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.033	0.033	0.001	-0.001	0.004			12:02:09	Yes
2	-0.015	-0.015	-0.000	0.004	0.003			12:02:45	Yes
3	-0.009	-0.009	-0.000	0.020	0.003			12:03:20	Yes
Mean:	0.003	0.003	0.000						
SD:	0.026	0.026	0.0007						
%RSD:	832.5	832.5	832.54						

QC value within limits for Se 196.03 Recovery = Not calculated
All analyte(s) passed QC.

CVAA Mercury Data Review Form

K-CVAA-02

Element: Hg

Analysis Lot #: 061814A-HG2

Starlims #: 397802

Cal. STD/CCV Source: HG2-52-D

Service Request Numbers:

K1405818, K1405830, K1405857, K1405941, K1406009, K1405756

	Yes	No	NA
1) Appropriate standardization completed	<u>X</u>	<u> </u>	<u> </u>
2) ICV within 10% of true value	<u>X</u>	<u> </u>	<u> </u>
3) CCVs in control (+/- 10%)	<u>X</u>	<u> </u>	<u> </u>
4) CCBs and or ICBs below MRL	<u>X</u>	<u> </u>	<u> </u>
5) CCV/CCB check run every 10 samples	<u>X</u>	<u> </u>	<u> </u>
6) All reported samples within calibration range	<u>X</u>	<u> </u>	<u> </u>
7) Calculations correct	<u>X</u>	<u> </u>	<u> </u>

Comments:

Data reviewed against service request(s) to ensure no samples were omitted: JDB (Initials)

Primary Reviewed By: JDB

Date: 6/17/14

Secondary Reviewed By: *Spatterton*

Date: 6/17/14

CVAA Hg ANALYTICAL WORKSHEET

Method: (Circle One) (7470A) 7471B 245.1	Service Request # :
Analysis For: Hg	

DATA

Pos.	SAMPLE NUMBER	Initial Sample (g) or (mL)	Initial Dilution (mL)	Dilution Factor	Measured (µg/L)	Sample Actual (mg/kg)	Sample Actual (µg/L)
1	Cal. Blk.	~	50	~	0.00		0.00
2	Std 0.2	*0.1	50	~	0.20		0.20
3	Std 0.5	*0.25	50	~	0.50		0.50
4	Std 1.0	*0.5	50	~	1.00		1.00
5	Std 5.0	*2.5	50	~	5.00		5.00
6	Std 10.0	*5.0	50	~	10.00		10.00
7	ICV1	**0.25	50	~	4.980		100%
8	ICB1	~	50	~	-0.010		-0.010
9	LLICV1	*0.1	50	~	0.214		107%
10	CCV1	*2.5	50	~	5.200		104%
11	CCB1	~	50	~	0.003		0.003
12	KQ1406689-03	20	20	~	0.008		0.008
13	KQ1406689-04	20	20	~	4.840		97%
14	K1405818-001	20	20	~	0.004		0.004
15	K1405818-002	20	20	~	0.017		0.017
16	K1405818-002A	20	20	~	0.868		85%
17	K1405818-002D	20	20	~	0.000		0.000
18	K1405818-002S	20	20	~	0.874		86%
19	K1405818-002SD	20	20	~	0.858		84%
20	K1405818-003	20	20	~	-0.016		-0.016
21	K1405818-004	20	20	~	0.010		0.010
22	CCV2	~	50	~	5.180		104%
23	CCB2	~	50	~	-0.004		-0.004
24	K1405830-001	20	20	~	0.010		0.010
25	K1405941-001	20	20	~	0.015		0.015

Comments:	Cal. Inter. Std* (100ppb) <u>HG2-52-D</u> 2nd Source Inter Std** (1ppm) <u>HG2-51-J</u>																																										
Water Spike level: 5.0 ppb																																											
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;">Method</th> <th style="width: 15%;">Spike Level</th> <th style="width: 10%;">MRL</th> <th style="width: 10%;">LCS Limit</th> <th style="width: 10%;">MS Limit</th> <th style="width: 10%;">RPD</th> <th style="width: 10%;">Post-Spike @ 5ppb</th> </tr> </thead> <tbody> <tr> <td>7470A Water</td> <td>1.0 µg/L</td> <td>0.2 µg/L</td> <td>80-120%</td> <td>75-125%</td> <td>20%</td> <td>+/- 20%</td> </tr> <tr> <td>245.1 Water</td> <td>1.0 µg/L</td> <td>0.2 µg/L</td> <td>85-115%</td> <td>70-130%</td> <td>20%</td> <td>+/- 20%</td> </tr> <tr> <td>7470A TCLP</td> <td>5.0 µg/L</td> <td>1.0 µg/L</td> <td>80-120%</td> <td>75-125%</td> <td>20%</td> <td>+/- 20%</td> </tr> <tr> <td>7471A Soil LCSS</td> <td>19.9mg/kg</td> <td>0.02 mg/kg</td> <td>48-137%</td> <td>80-120%</td> <td>20%</td> <td>+/- 20%</td> </tr> <tr> <td>7471A Tissue Tort</td> <td>0.292 mg/kg</td> <td>0.02 mg/kg</td> <td>74-129%</td> <td>80-120%</td> <td>20%</td> <td>+/- 20%</td> </tr> </tbody> </table>	Method	Spike Level	MRL	LCS Limit	MS Limit	RPD	Post-Spike @ 5ppb	7470A Water	1.0 µg/L	0.2 µg/L	80-120%	75-125%	20%	+/- 20%	245.1 Water	1.0 µg/L	0.2 µg/L	85-115%	70-130%	20%	+/- 20%	7470A TCLP	5.0 µg/L	1.0 µg/L	80-120%	75-125%	20%	+/- 20%	7471A Soil LCSS	19.9mg/kg	0.02 mg/kg	48-137%	80-120%	20%	+/- 20%	7471A Tissue Tort	0.292 mg/kg	0.02 mg/kg	74-129%	80-120%	20%	+/- 20%	
Method	Spike Level	MRL	LCS Limit	MS Limit	RPD	Post-Spike @ 5ppb																																					
7470A Water	1.0 µg/L	0.2 µg/L	80-120%	75-125%	20%	+/- 20%																																					
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7470A TCLP	5.0 µg/L	1.0 µg/L	80-120%	75-125%	20%	+/- 20%																																					
7471A Soil LCSS	19.9mg/kg	0.02 mg/kg	48-137%	80-120%	20%	+/- 20%																																					
7471A Tissue Tort	0.292 mg/kg	0.02 mg/kg	74-129%	80-120%	20%	+/- 20%																																					

Analyst: 	Date: 6/12/14	Page Number: 1
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CVAA Hg ANALYTICAL WORKSHEET

Method: (Circle One) 7470A 7471B 245.1	Service Request # :
Analysis For: Hg	

DATA

Pos.	SAMPLE NUMBER	Initial Sample (g) or (mL)	Initial Dilution (mL)	Dilution Factor	Measured (µg/L)	Sample Actual (mg/kg)	Sample Actual (µg/L)
26	K1406009-001	1	20	~	0.000		0.000
27	K1405857-001	20	20	~	0.011		0.011
28	K1405857-002	20	20	~	0.157		0.157
29	K1405857-003	5	20	~	0.525		2.100
30	KQ1406687-01	20	20	~	0.007		0.007
31	KQ1406687-02	20	20	~	5.290		106%
32	K1405756-009	4	20	~	0.008		0.040
33	K1405756-012	20	20	~	0.018		0.018
34	CCV3	*2.5	50	~	4.860		97%
35	CCB3	~	50	~	-0.005		-0.005
36	K1405756-013	20	20	~	0.012		0.012
37	K1405756-014	20	20	~	0.011		0.011
38	K1405756-014A	20	20	~	1.080		107%
39	K1405756-014D	20	20	~	0.000		0.000
40	K1405756-014S	20	20	~	1.020		101%
41	K1405756-015	4	20	~	0.016		0.080
42	K1405756-016	4	20	~	0.005		0.025
43	K1045756-017	20	20	~	0.007		0.007
44	K1405756-018	4	20	~	0.007		0.035
45	K1405756-019	20	20	~	0.006		0.006
46	CCV4	*2.5	50	~	5.230		105%
47	CCB4	~	50	~	-0.016		-0.016
48	K1405756-020	4	20	~	0.002		0.010
49	K1405756-021	20	20	~	0.001		0.001
50	K1405756-022	20	20	~	0.017		0.017

Comments:

Water Spike level: 5.0 ppb						
Method	Spike Level	MRL	LCS Limit	MS Limit	RPD	Post-Spike @ 5ppb
7470A Water	1.0 µg/L	0.2 µg/L	80-120%	75-125%	20%	+/- 20%
245.1 Water	1.0 µg/L	0.2 µg/L	85-115%	70-130%	20%	+/- 20%
7470A TCLP	5.0 µg/L	1.0 µg/L	80-120%	75-125%	20%	+/- 20%
7471A Soil LCSS	19.9mg/kg	0.02 mg/kg	48-137%	80-120%	20%	+/- 20%
7471A Tissue Tort	0.292 mg/kg	0.02 mg/kg	74-129%	80-120%	20%	+/- 20%

Analyst: 	Date: 6/18/12	Page Number: 2
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CVAA Hg ANALYTICAL WORKSHEET

Method: (Circle One) 7470A 7471B 245.1	Service Request # :
Analysis For: Hg	

DATA

Pos.	SAMPLE NUMBER	Initial Sample (g) or (mL)	Initial Dilution (mL)	Dilution Factor	Measured (µg/L)	Sample Actual (mg/kg)	Sample Actual (µg/L)
51	K1405756-023	4	20	~	0.017		0.085
52	K1405756-024	4	20	~	0.012		0.060
53	K1405756-025	4	20	~	0.014		0.070
54	K1405756-026	20	20	~	0.087		0.087
55	K0145756-027	20	20	~	0.013		0.013
56	KQ1406688-01	20	20	~	0.001		0.001
57	KQ1406688-02	20	20	~	5.210		104%
58	CCV5	*2.5	50	~	4.900		98%
59	CCB5	~	50	~	-0.003		-0.003
60	K1045756-009 DISS	4	20	~	0.000		0.000
61	K1405756-012 DISS	20	20	~	0.000		0.000
62	K1405756-013 DISS	20	20	~	0.005		0.005
63	K1405756-014 DISS	20	20	~	-0.001		-0.001
64	K1405756-014A DISS	20	20	~	1.010		101%
65	K1405756-014D DISS	20	20	~	-0.004		-0.004
66	K1405756-014S DISS	20	20	~	0.999		100%
67	K1405756-015 DISS	4	20	~	0.003		0.015
68	K1405756-016 DISS	4	20	~	0.004		0.020
69	K1405756-017 DISS	20	20	~	0.002		0.002
70	CCV6	*2.5	50	~	5.350		107%
71	CCB6	~	50	~	0.001		0.001
72	K1405756-018 DISS	4	20	~	0.009		0.045
73	K1405756-019 DISS	20	20	~	0.022		0.022
74	K1405756-020 DISS	4	20	~	-0.001		-0.005
75	K1405756-021 DISS	20	20	~	-0.005		-0.005

Comments:						
Water Spike level: 5.0 ppb						
Method	Spike Level	MRL	LCS Limit	MS Limit	RPD	Post-Spike @ 5ppb
7470A Water	1.0 µg/L	0.2 µg/L	80-120%	75-125%	20%	+/- 20%
245.1 Water	1.0 µg/L	0.2 µg/L	85-115%	70-130%	20%	+/- 20%
7470A TCLP	5.0 µg/L	1.0 µg/L	80-120%	75-125%	20%	+/- 20%
7471A Soil LCSS	19.9mg/kg	0.02 mg/kg	48-137%	80-120%	20%	+/- 20%
7471A Tissue Tort	0.292 mg/kg	0.02 mg/kg	74-129%	80-120%	20%	+/- 20%

Analyst: 	Date: 6/18/14	Page Number: 3
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CVAA Hg ANALYTICAL WORKSHEET

Method: (Circle One) (7470A) 7471B 245.1	Service Request # :
Analysis For: Hg	

DATA

Pos.	SAMPLE NUMBER	Initial Sample (g) or (mL)	Initial Dilution (mL)	Dilution Factor	Measured (µg/L)	Sample Actual (mg/kg)	Sample Actual (µg/L)
76	K1405756-022 DISS	20	20	~	-0.004		-0.004
77	K1405756-023 DISS	4	20	~	0.006		0.030
78	K1405756-024 DISS	4	20	~	0.012		0.060
79	K1405756-025 DISS	4	20	~	0.003		0.015
80	K1405756-026 DISS	20	20	~	0.013		0.013
81	K1405756-027 DISS	20	20	~	0.018		0.018
82	CCV7	*2.5	50	~	5.340		107%
83	CCB7	~	50	~	-0.004		-0.004
84							
85							
86							
87							
88							
89							
90							
91							
92							
93							
94							
95							
96							
97							
98							
99							
100							

Comments:						
Water Spike level:	5.0 ppb					
Method	Spike Level	MRL	LCS Limit	MS Limit	RPD	Post-Spike @ 5ppb
7470A Water	1.0 µg/L	0.2 µg/L	80-120%	75-125%	20%	+/- 20%
245.1 Water	1.0 µg/L	0.2 µg/L	85-115%	70-130%	20%	+/- 20%
7470A TCLP	5.0 µg/L	1.0 µg/L	80-120%	75-125%	20%	+/- 20%
7471A Soil LCSS	19.9mg/kg	0.02 mg/kg	48-137%	80-120%	20%	+/- 20%
7471A Tissue Tort	0.292 mg/kg	0.02 mg/kg	74-129%	80-120%	20%	+/- 20%

Analyst: 	Date: 6/18/14	Page Number: 4
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Report Generated By CETAC QuickTrace

Analyst: alks.alklsp196

Worksheet file: C:\Program Files\QuickTrace\Worksheets\061814A-HG2.wsz

Date Started: 6/18/2014 1:19:53 PM

Comment:

Results

Sample Name			Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
Calibration Blank			STD	06/18/14 01:28:13 pm	0.000	28	125.96	
Replicates	64.1	51.9	-6.7	2.6				
Standard #1			STD	06/18/14 01:29:49 pm	0.200	1037	0.99	
Replicates	1038.6	1047.2	1022.9	1039.5				
Standard #2			STD	06/18/14 01:31:26 pm	0.500	2582	1.13	
Replicates	2615.5	2597.8	2554.7	2561.6				
Standard #3			STD	06/18/14 01:33:04 pm	1.000	5516	0.63	
Replicates	5468.4	5539.2	5511.6	5545.2				
Standard #4			STD	06/18/14 01:34:42 pm	5.000	26967	2.69	
Replicates	26220.1	26518.0	27336.6	27792.9				
Standard #5			STD	06/18/14 01:36:21 pm	10.000	52960	2.05	
Replicates	52047.6	52105.0	53385.5	54302.4				

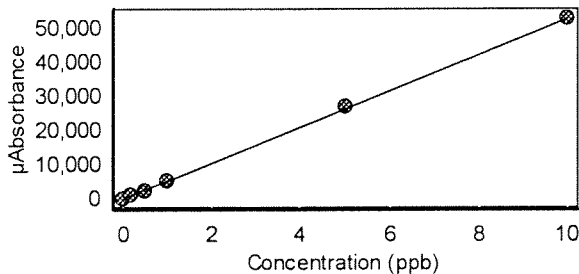
Calibration

Equation: $A = 27.975 + 5313.037C$

R2: 0.99989

SEE: 272.5785

Flags:



ICV1			ICV	06/18/14 01:38:01 pm	4.980	26485	1.08	
Replicates	26799.4	26616.1	26382.2	26140.7				
% Recovery	99.59							
ICB1			ICB	06/18/14 01:39:37 pm	-0.010	-25	139.17	
Replicates	-37.5	-58.6	23.1	-26.6				

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
LLICV1				CRDL	06/18/14 01:41:13 pm	0.214	1167	2.17	
Replicates	1193.7	1180.6	1154.6		1137.5				
% Recovery	107.15								
CCV1				CCV	06/18/14 01:42:51 pm	5.200	27640	0.47	
Replicates	27795.3	27690.9	27579.9		27494.4				
% Recovery	103.94								
CCB1				CCB	06/18/14 01:44:27 pm	0.003	42	62.47	
Replicates	6.7	67.5	39.1		56.1				
KQ1406689-03				UNK	06/18/14 01:46:04 pm	0.008	69	10.21	
Replicates	68.4	61.0	77.9		66.9				
KQ1406689-04				UNK	06/18/14 01:47:40 pm	4.840	25742	1.46	
Replicates	25217.7	25903.2	26095.6		25753.1				
K1405818-001				UNK	06/18/14 01:49:16 pm	0.004	52	56.58	
Replicates	17.6	44.5	56.7		88.2				
K1405818-002				UNK	06/18/14 01:50:53 pm	0.017	121	15.14	
Replicates	113.7	145.1	121.6		101.9				
K1405818-002A				UNK	06/18/14 01:52:30 pm	0.868	4642	0.47	
Replicates	4638.6	4619.1	4638.4		4672.1				
K1405818-002D				UNK	06/18/14 01:54:08 pm	0.000	29	99.46	
Replicates	1.4	26.9	18.7		69.6				
K1405818-002S				UNK	06/18/14 01:55:45 pm	0.874	4670	1.08	
Replicates	4606.5	4704.5	4651.0		4716.0				
K1405818-002SD				UNK	06/18/14 01:57:23 pm	0.858	4587	0.46	
Replicates	4556.9	4589.0	4604.2		4598.8				
K1405818-003				UNK	06/18/14 01:59:01 pm	-0.016	-59	35.92	
Replicates	-61.4	-38.4	-47.6		-86.7				

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
K1405818-004				UNK	06/18/14 02:00:40 pm	0.010	81	32.73	
Replicates	116.2	54.7	68.1	84.9					
CCV2				CCV	06/18/14 02:02:18 pm	5.180	27551	0.19	
Replicates	27630.6	27517.1	27533.1	27524.7					
% Recovery	103.61								
CCB2				CCB	06/18/14 02:03:54 pm	-0.004	6	427.26	
Replicates	8.1	31.7	-25.6	7.9					
K1405830-001				UNK	06/18/14 02:05:33 pm	0.010	81	66.81	
Replicates	142.9	35.5	35.7	109.3					
K1405941-001				UNK	06/18/14 02:07:12 pm	0.015	108	26.95	
Replicates	133.8	66.3	113.2	118.6					
K1406009-001				UNK	06/18/14 02:08:47 pm	0.000	27	165.78	
Replicates	12.9	2.8	95.1	-1.0					
K1405857-001				UNK	06/18/14 02:10:23 pm	0.011	84	36.61	
Replicates	88.1	123.7	52.0	70.4					
K1405857-002				UNK	06/18/14 02:11:59 pm	0.157	864	3.68	
Replicates	826.4	901.3	874.1	852.6					
K1405857-003				UNK	06/18/14 02:13:35 pm	0.525	2816	0.38	
Replicates	2821.8	2818.1	2825.1	2801.0					
KQ1406687-01				UNK	06/18/14 02:20:30 pm	0.007	66	27.54	
Replicates	73.6	62.0	85.1	42.6					
KQ1406687-02				UNK	06/18/14 02:22:07 pm	5.290	28126	0.38	
Replicates	28227.8	28191.9	28097.8	27987.6					
K1405756-009				UNK	06/18/14 02:23:44 pm	0.008	69	23.36	
Replicates	52.2	58.0	79.9	84.9					

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
K1405756-012				UNK	06/18/14 02:25:22 pm	0.018	123	18.43	
Replicates	120.6	108.0	107.4	155.6					
CCV3				CCV	06/18/14 02:27:00 pm	4.860	25856	0.32	
Replicates	25897.7	25896.0	25900.3	25731.6					
% Recovery	97.23								
CCB3				CCB	06/18/14 02:28:36 pm	-0.005	1	553.54	
Replicates	-30.5	43.3	20.8	-27.9					
K1405756-013				UNK	06/18/14 02:30:13 pm	0.012	93	7.72	
Replicates	97.1	87.6	86.9	101.5					
K1405756-014				UNK	06/18/14 02:31:51 pm	0.011	86	43.78	
Replicates	118.8	82.5	109.1	34.5					
K1405756-014A				UNK	06/18/14 02:33:30 pm	1.080	5747	5.07	
Replicates	5318.9	5806.9	5934.0	5929.0					
K1405756-014D				UNK	06/18/14 02:35:08 pm	0.000	28	44.68	
Replicates	46.0	25.0	17.9	22.6					
K1405756-014S				UNK	06/18/14 02:36:44 pm	1.020	5439	0.55	
Replicates	5481.0	5432.4	5411.0	5431.2					
K1405756-015				UNK	06/18/14 02:38:20 pm	0.016	114	14.81	
Replicates	121.4	98.9	134.7	101.8					
K1405756-016				UNK	06/18/14 02:39:56 pm	0.005	57	52.68	
Replicates	33.9	67.4	94.1	31.3					
K1045756-017				UNK	06/18/14 02:41:32 pm	0.007	65	42.31	
Replicates	24.1	72.6	82.0	80.3					
K1405756-018				UNK	06/18/14 02:43:08 pm	0.007	64	33.63	
Replicates	55.3	91.8	41.1	68.2					

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
K1405756-019				UNK	06/18/14 02:44:45 pm	0.006	58	58.78	
Replicates	46.6	102.2	61.2		21.1				
CCV4				CCV	06/18/14 02:46:23 pm	5.230	27827	0.21	
Replicates	27898.4	27773.5	27783.1		27854.8				
% Recovery	104.65								
CCB4				CCB	06/18/14 02:47:59 pm	-0.016	-57	31.43	
Replicates	-31.3	-72.5	-64.5		-60.1				
K1405756-020				UNK	06/18/14 02:49:36 pm	0.002	37	66.33	
Replicates	24.3	55.6	60.7		9.1				
K1405756-021				UNK	06/18/14 02:51:14 pm	0.001	34	56.76	
Replicates	20.9	61.4	21.3		30.9				
K1405756-022				UNK	06/18/14 02:52:52 pm	0.017	119	9.60	
Replicates	113.3	116.0	111.1		136.0				
K1405756-023				UNK	06/18/14 02:54:30 pm	0.017	117	29.92	
Replicates	96.9	78.9	134.8		155.4				
K1405756-024				UNK	06/18/14 02:56:08 pm	0.012	94	34.80	
Replicates	45.7	105.2	104.7		118.7				
K1405756-025				UNK	06/18/14 02:57:47 pm	0.014	102	33.28	
Replicates	79.3	89.2	87.7		153.0				
K1405756-026				UNK	06/18/14 02:59:23 pm	0.087	488	3.60	
Replicates	481.7	465.9	503.7		500.2				
K0145756-027				UNK	06/18/14 03:00:59 pm	0.013	96	44.93	
Replicates	105.9	90.9	42.0		146.9				
KQ1406688-01				UNK	06/18/14 03:02:35 pm	0.001	33	73.54	
Replicates	16.4	8.1	54.0		54.1				

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
KQ1406688-02				UNK	06/18/14 03:04:11 pm	5.210	27712	0.87	
Replicates	28011.5	27625.9	27439.7	27770.9					
CCV5				CCV	06/18/14 03:05:49 pm	4.900	26060	0.42	
Replicates	26172.1	26088.5	26073.3	25907.6					
% Recovery	97.99								
CCB5				CCB	06/18/14 03:07:25 pm	-0.003	12	471.22	
Replicates	69.7	26.1	20.1	-67.3					
K1045756-009 DISS				UNK	06/18/14 03:09:01 pm	0.000	30	47.67	
Replicates	9.8	30.9	41.6	39.5					
K1405756-012 DISS				UNK	06/18/14 03:10:38 pm	0.000	27	75.06	
Replicates	34.2	46.9	25.3	-0.2					
K1405756-013 DISS				UNK	06/18/14 03:12:16 pm	0.005	55	36.34	
Replicates	46.3	83.0	36.3	55.7					
K1405756-014 DISS				UNK	06/18/14 03:13:53 pm	-0.001	22	89.25	
Replicates	7.4	29.9	47.2	5.0					
K1405756-014A DISS				UNK	06/18/14 03:15:31 pm	1.010	5385	0.88	
Replicates	5347.2	5340.8	5430.2	5422.0					
K1405756-014D DISS				UNK	06/18/14 03:17:09 pm	-0.004	9	179.55	
Replicates	-1.1	33.4	2.4	1.6					
K1405756-014S DISS				UNK	06/18/14 03:18:47 pm	0.999	5338	0.86	
Replicates	5303.3	5327.8	5314.5	5405.3					
K1405756-015 DISS				UNK	06/18/14 03:20:26 pm	0.003	43	46.30	
Replicates	14.5	55.6	45.0	58.4					
K1405756-016 DISS				UNK	06/18/14 03:22:02 pm	0.004	49	18.99	
Replicates	47.3	59.2	52.0	37.0					

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
K1405756-017 DISS				UNK	06/18/14 03:23:38 pm	0.002	37	132.08	
Replicates	-17.2	79.4	8.4	78.9					
CCV6				CCV	06/18/14 03:25:16 pm	5.350	28445	0.07	
Replicates	28428.7	28432.5	28448.9	28469.7					
% Recovery	106.97								
CCB6				CCB	06/18/14 03:26:52 pm	0.001	32	66.63	
Replicates	57.0	9.1	20.5	41.8					
K1405756-018 DISS				UNK	06/18/14 03:28:28 pm	0.009	75	45.98	
Replicates	46.0	122.9	53.8	78.7					
K1405756-019 DISS				UNK	06/18/14 03:30:05 pm	0.021	142	6.51	
Replicates	155.8	138.2	140.7	134.8					
K1405756-020 DISS				UNK	06/18/14 03:31:41 pm	-0.001	23	68.54	
Replicates	26.9	25.7	37.3	0.7					
K1405756-021 DISS				UNK	06/18/14 03:33:18 pm	-0.005	2	583.30	
Replicates	31.7	12.8	-29.7	-8.0					
K1405756-022 DISS				UNK	06/18/14 03:34:55 pm	-0.004	8	159.27	
Replicates	-4.7	5.7	26.0	5.4					
K1405756-023 DISS				UNK	06/18/14 03:36:33 pm	0.006	57	47.20	
Replicates	59.0	90.6	24.2	56.1					
K1405756-024 DISS				UNK	06/18/14 03:38:10 pm	0.012	91	46.98	
Replicates	86.4	146.3	41.7	90.5					
K1405756-025 DISS				UNK	06/18/14 03:39:48 pm	0.003	45	26.63	
Replicates	48.4	27.1	53.5	49.8					
K1405756-026 DISS				UNK	06/18/14 03:41:27 pm	0.013	95	32.95	
Replicates	135.6	59.8	89.3	94.3					

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
K1405756-027 DISS				UNK	06/18/14 03:43:05 pm	0.018	121	12.42	
Replicates	129.6	100.3	120.5	134.3					
CCV7				CCV	06/18/14 03:44:43 pm	5.340	28419	0.10	
Replicates	28455.2	28408.8	28424.7	28388.8					
% Recovery	106.87								
CCB7				CCB	06/18/14 03:46:19 pm	-0.004	6	411.67	
Replicates	6.0	35.6	8.7	-25.9					

Preparation Information Benchsheet

Prep Run: 211049 **Prep Workflow:** HgDigAq **Status:** Prepped **Prep Date:** 06/18/2014
Team: Metals **Prep Method:** Method **Current Step:** Digestion **09:00**
Analyst: JBAILEY **Rush/NPDES:** NPDES **Due Date:** 06/22/2014
Hold Date: 07/02/2014

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1406689-03	Method Blank		20 mL	20 mL			Hg T	
KQ1406689-04	Lab Control Sample		20 mL	20 mL	0.1 mL	71169	Hg T	
K1405818-001	SYC14-SW	.05	20 mL	20 mL			Hg T	
K1405818-002	SYC14-AC Elutriate	.19	20 mL	20 mL			Hg T	
K1405818-002: KQ1406689-05	Duplicate	.19	20 mL	20 mL			Hg T	
K1405818-002: KQ1406689-06	Matrix Spike	.19	20 mL	20 mL	0.2 mL	71739	Hg T	
K1405818-002: KQ1406689-07	Duplicate Matrix Spike	.19	20 mL	20 mL	0.2 mL	71739	Hg T	
K1405818-003	SYC14-TB1 Elutriate	.08	20 mL	20 mL			Hg T	
K1405818-004	SYC14-TB2 Elutriate	.08	20 mL	20 mL			Hg T	
K1405830-001	CAK-ARDS-20140610	.03	20 mL	20 mL			Hg T	
K1405857-001	Influent	.01	20 mL	20 mL			Hg T	
K1405857-002	Effluent	.01	20 mL	20 mL			Hg T	
K1405857-003	Surimi Effluent	.01	5 mL	20 mL			Hg T	
K1405941-001	KCP INJ 1	.16	20 mL	20 mL			Hg T	
K1406009-001	HCl #1-#4	.02	1 mL	20 mL			Hg T	

15 Total Samples consisting of 10 Client Samples, 3 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET Hg Source Standard 100 ug/L	Spike	71739	6/19/2014	K-MET Hg Source Standard 1000 ug/L	Spike	71169	7/1/2014

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET K2S2O8 Hg	62751	Digestion	K-MET H2SO4 Hg	71522
Digestion	K-MET NaCl Hg	62753	Digestion	K-MET NH2OH-HCl Hg	71524
Digestion	K-MET 50ml Centrifuge Tube	63655	Digestion	K-MET KMnO4 Hg	71525
Digestion	K-MET HNO3 Hg	71521	Digestion	K-MET SnCl Hg	71526

Preparation Hardware / Equipment

Step	Name	Property	Value		Step	Name	Property	Value	
Digestion	K-BlockDigester-08	Corrected Temperature	95	deg C	Digestion	K-BlockDigester-08	Thermometer Correction factor	0	deg C
Digestion	K-BlockDigester-08	Observed Temperature	95	deg C	Digestion	K-BlockDigester-08	Thermometer Location	18	NONE
Digestion	K-BlockDigester-08	Temperature Thermo	211918353	deg C					

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	18-JUN-14 09:00	18-JUN-14 11:00	JBAILEY		N	

Comments

CCV/STD=HG2-52-D

Review

Reviewed by: B Date: 6/19/14

Preparation Information Benchsheet

Prep Run: 211047 **Prep Workflow:** HgDigAq **Status:** Prepped **Prep Date:** 06/18/2014
Team: Metals **Prep Method:** Method **Current Step:** Digestion **Prep Date:** 09:00
Analyst: JBAILEY **Rush/NPDES:** NPDES **Due Date:** 06/26/2014
Hold Date: 07/02/2014

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1406687-01	Method Blank		20 mL	20 mL			Hg T	
KQ1406687-02	Lab Control Sample		20 mL	20 mL	0.1 mL	71169	Hg T	
K1405756-009	HANGER ONE WASH	.01	4 mL	20 mL			Hg T	
K1405756-012	FIRE HALL OWS	.01	20 mL	20 mL			Hg T	
K1405756-013	DUP	.01	20 mL	20 mL			Hg T	
K1405756-014	N-1 MAINTENANCE	.01	20 mL	20 mL			Hg T	
K1405756-014: KQ1406687-03	Duplicate	.01	20 mL	20 mL			Hg T	
K1405756-014: KQ1406687-04	Matrix Spike	.01	20 mL	20 mL	0.2 mL	71739	Hg T	
K1405756-015	OWS-DOT	.01	4 mL	20 mL			Hg T	
K1405756-016	H-65 WASH	.01	4 mL	20 mL			Hg T	
K1405756-017	OWS FIRE BURN PIT	.01	20 mL	20 mL			Hg T	
K1405756-018	H60 ENGINE WASH	.01	4 mL	20 mL			Hg T	
K1405756-019	OLD PP	.01	20 mL	20 mL			Hg T	
K1405756-020	C130 ENGINE	.01	4 mL	20 mL			Hg T	
K1405756-021	N-66	.01	20 mL	20 mL			Hg T	
K1405756-022	DUP	.01	20 mL	20 mL			Hg T	
K1405756-023	AVIS OWS	.01	4 mL	20 mL			Hg T	
K1405756-024	BUGET FLOOR DRAIN	.01	4 mL	20 mL			Hg T	
K1405756-025	ANDREW AIR	.01	4 mL	20 mL			Hg T	
K1405756-026	SREB	.01	20 mL	20 mL			Hg T	
K1405756-027	CHEM STORAGE	.01	20 mL	20 mL			Hg T	

21 Total Samples consisting of 17 Client Samples, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET Hg Source Standard 100 ug/L	Spike	71739	6/19/2014	K-MET Hg Source Standard 1000 ug/L	Spike	71169	7/1/2014

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET K2S2O8 Hg	62751	Digestion	K-MET H2SO4 Hg	71522
Digestion	K-MET NaCl Hg	62753	Digestion	K-MET NH2OH-HCl Hg	71524
Digestion	K-MET 50ml Centrifuge Tube	63655	Digestion	K-MET KMnO4 Hg	71525
Digestion	K-MET HNO3 Hg	71521	Digestion	K-MET SnCl Hg	71526

Preparation Hardware / Equipment

Step	Name	Property	Value	Step	Name	Property	Value
Digestion	K-BlockDigester-08	Corrected Temperature	95 deg C	Digestion	K-BlockDigester-08	Thermometer Correction factor	0 deg C
Digestion	K-BlockDigester-08	Observed Temperature	95 deg C	Digestion	K-BlockDigester-08	Thermometer Location	18 NONE
Digestion	K-BlockDigester-08	Temperature Thermo 211918353	95 deg C				

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	18-JUN-14 09:00	18-JUN-14 11:00	JBAILEY		N	

Comments

CCV/STD=HG2-52-D

Review

Reviewed by: JP Date: 6/19/14

Preparation Information Benchsheet

Prep Run: 211048 **Prep Workflow:** HgDigAq **Status:** Prepped **Prep Date:** 06/18/2014
Team: Metals **Prep Method:** Method **Current Step:** Digestion **09:00**
Analyst: JBAILEY **Rush/NPDES:** NPDES **Due Date:** 06/26/2014
Hold Date: 07/02/2014

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1406688-01	Method Blank		20 mL	20 mL			Hg D	
KQ1406688-02	Lab Control Sample		20 mL	20 mL	0.1 mL	71169	Hg D	
K1405756-009	HANGER ONE WASH	.01	4 mL	20 mL			Hg D	
K1405756-012	FIRE HALL OWS	.01	20 mL	20 mL			Hg D	
K1405756-013	DUP	.01	20 mL	20 mL			Hg D	
K1405756-014	N-1 MAINTENANCE	.01	20 mL	20 mL			Hg D	
K1405756-014: KQ1406688-03	Duplicate	.01	20 mL	20 mL			Hg D	
K1405756-014: KQ1406688-04	Matrix Spike	.01	20 mL	20 mL	0.2 mL	71739	Hg D	
K1405756-015	OWS-DOT	.01	4 mL	20 mL			Hg D	
K1405756-016	H-65 WASH	.01	4 mL	20 mL			Hg D	
K1405756-017	OWS FIRE BURN PIT	.01	20 mL	20 mL			Hg D	
K1405756-018	H60 ENGINE WASH	.01	4 mL	20 mL			Hg D	
K1405756-019	OLD PP	.01	20 mL	20 mL			Hg D	
K1405756-020	C130 ENGINE	.01	4 mL	20 mL			Hg D	
K1405756-021	N-66	.01	20 mL	20 mL			Hg D	
K1405756-022	DUP	.01	20 mL	20 mL			Hg D	
K1405756-023	AVIS OWS	.01	4 mL	20 mL			Hg D	
K1405756-024	BUGET FLOOR DRAIN	.01	4 mL	20 mL			Hg D	
K1405756-025	ANDREW AIR	.01	4 mL	20 mL			Hg D	
K1405756-026	SREB	.01	20 mL	20 mL			Hg D	
K1405756-027	CHEM STORAGE	.01	20 mL	20 mL			Hg D	

21 Total Samples consisting of 17 Client Samples, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET Hg Source Standard 100 ug/L	Spike	71739	6/19/2014	K-MET Hg Source Standard 1000 ug/L	Spike	71169	7/1/2014

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET K2S2O8 Hg	62751	Digestion	K-MET H2SO4 Hg	71522
Digestion	K-MET NaCl Hg	62753	Digestion	K-MET NH2OH-HCl Hg	71524
Digestion	K-MET 50ml Centrifuge Tube	63655	Digestion	K-MET KMnO4 Hg	71525
Digestion	K-MET HNO3 Hg	71521	Digestion	K-MET SnCl Hg	71526

Preparation Hardware / Equipment

Step	Name	Property	Value	Step	Name	Property	Value		
Digestion	K-BlockDigester-08	Corrected Temperature	95	deg C	Digestion	K-BlockDigester-08	Thermometer Correction factor	0	deg C
Digestion	K-BlockDigester-08	Observed Temperature	95	deg C	Digestion	K-BlockDigester-08	Thermometer Location	18	NONE
Digestion	K-BlockDigester-08	Temperature Thermo	95	deg C					

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	18-JUN-14 09:00	18-JUN-14 11:00	JBAILEY		N	

Comments

CCV/STD=HG2-52-D

Review

Reviewed by:  Date: 6/19/14

Service Request # K1405818 (2.5/50) _____
 Calibration _____ 061814AMS03 _____
 QC in calibration _ 061814AMS03 _____
 QC Service Request # K1405818 _____
 STARLIMS Batch # 397650 _____

ICP-MS 200.8 Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	<u> X </u>	<u> </u>	<u> </u>
2. ICV in control (+/- 10%)	<u> X </u>	<u> </u>	<u> </u>
3. CCV's in control (+/- 10%)	<u> X </u>	<u> </u>	<u> </u>
4. CCB's and/or ICB's below MRL	<u> X </u>	<u> </u>	<u> </u>
5. Method blank below MRL	<u> X </u>	<u> </u>	<u> </u>
6. LCS in control (+/-15%)	<u> X </u>	<u> </u>	<u> </u>
7. Spike within 70-130%, Duplicate within 20%	<u> X </u>	<u> </u>	<u> </u>
8. All analytes within instrument linear range	<u> X </u>	<u> </u>	<u> </u>
9. Adequate rinse out time allowed	<u> X </u>	<u> </u>	<u> </u>
10. Internal standards in control (60-125%)	<u> X </u>	<u> </u>	<u> </u>
11. Interferences checked	<u> X </u>	<u> </u>	<u> </u>
12. Se over MRL	<u> </u>	<u> </u>	<u> X </u>
13. CRA run (50-199%)	<u> X </u>	<u> </u>	<u> </u>
14. ICSA and ICSAB in control	<u> </u>	<u> </u>	<u> X </u>
15. Serial dilution run	<u> </u>	<u> </u>	<u> X </u>
16. Post spike in control	<u> </u>	<u> </u>	<u> X </u>

Comments:

Primary Review by *BJ*
 Secondary Review by *BJL*
R:\icp\misc\data review forms\PQ ExCell review form

Date 6/18/14
 Date 6/19/14

Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	Cal. Blk	Blank	1.000	0	1	1	145
2	Cal. Stn	Fully Quant Standard	1.000	0	1	2	145
3	ICV1	Unknown	1.000	0	1	3	145
4	CCV1	Unknown	1.000	0	1	2	145
5	ICB1	Unknown	1.000	0	1	1	145
6	CCB1	Unknown	1.000	0	1	1	145
7	LLICVW	Unknown	1.000	0	1	4	145
8	LLICV (Th @ 0.1 ppb)	Unknown	1.000	0	1	7	145
9	ICSA	Unknown	1.000	0	1	5	145
10	ICSAB	Unknown	1.000	0	1	6	145
11	K1405912-MB	Unknown	1.000	1	1	1	145
12	LCSW	Unknown	1.000	1	1	2	145
13	K1405912-002 1/2	Unknown	1.000	1	1	3	145
14	K1405912-002D 1/2	Unknown	1.000	1	1	4	145
15	K1405912-002L 1/10	Unknown	1.000	1	1	5	145
16	K1405912-002A 1/2	Unknown	1.000	1	1	6	145
17	K1405912-002S 1/2	Unknown	1.000	1	1	7	145
18	K1405912-001 1/2	Unknown	1.000	1	1	8	145
19	K1405880-001	Unknown	1.000	1	1	9	145
20	K1405880-001L	Unknown	1.000	2	1	1	145
21	CCV2	Unknown	1.000	0	1	2	145
22	CCB2	Unknown	1.000	0	1	1	145
23	LLCCVW1	Unknown	1.000	0	1	4	145
24	K1405880-01A	Unknown	1.000	2	1	2	145
25	K1405580-002	Unknown	1.000	1	1	10	145
26	K1405880-003	Unknown	1.000	1	1	11	145
27	K1405721-MB	Unknown	1.000	1	1	12	145
28	K1405721-001	Unknown	1.000	1	2	2	145
29	K1405721-001D	Unknown	1.000	1	2	3	145
30	K1405721-001L 1/5	Unknown	1.000	1	2	4	145
31	K1405721-001A	Unknown	1.000	1	2	5	145
32	K1405721-001S	Unknown	1.000	1	2	6	145
33	LCSW	Unknown	1.000	1	2	1	145
34	CCV3	Unknown	1.000	0	1	2	145
35	CCV3	Unknown	1.000	0	1	2	145
36	CCB3	Unknown	1.000	0	1	1	145
37	K1405721-002	Unknown	1.000	1	2	7	145
38	K1405721-003	Unknown	1.000	1	2	8	145
39	K1405721-004	Unknown	1.000	1	2	9	145
40	K1405721-005	Unknown	1.000	1	2	10	145
41	K1405721-006	Unknown	1.000	1	2	11	145
42	K1405941-001	Unknown	1.000	1	2	12	145
43	K1405572-MB	Unknown	1.000	1	3	1	145
44	LCSW	Unknown	1.000	1	3	2	145
45	K1405572-001	Unknown	1.000	1	3	3	145
46	K1405818-001	Unknown	1.000	1	3	4	145
47	CCV4	Unknown	1.000	0	1	2	145
48	CCB4	Unknown	1.000	0	1	1	145
49	LLCCVW2	Unknown	1.000	0	1	4	145
50	K1405818-002	Unknown	1.000	1	3	5	145
51	K1405818-002D	Unknown	1.000	1	3	6	145
52	K1405818-002S	Unknown	1.000	1	3	7	145
53	K1405818-002SD	Unknown	1.000	1	3	8	145
54	K1405818-003	Unknown	1.000	1	3	9	145
55	K1405818-004	Unknown	1.000	1	3	10	145
56	K1405461-MB	Unknown	1.000	1	3	11	145
57	LCSW	Unknown	1.000	1	3	12	145
58	CCV5	Unknown	1.000	0	1	2	145
59	CCB5	Unknown	1.000	0	1	1	145
60	K1405461-012	Unknown	1.000	1	4	1	145
61	K1405461-012D	Unknown	1.000	1	4	2	145
62	K1405461-012S	Unknown	1.000	1	4	3	145
63	K1405461-013	Unknown	1.000	1	4	4	145
64	K1405461-014	Unknown	1.000	1	4	5	145
65	K1405461-015	Unknown	1.000	1	4	6	145
66	K1405461-016	Unknown	1.000	1	4	7	145
67	K1405461-017	Unknown	1.000	1	4	8	145

68	K1405461-018	Unknown	1.000	1	4	9	145
69	CCV6	QC Sample	1.000	0	1	2	145
70	CCB6	QC Sample	1.000	0	1	1	145

Performance Report

Sample details

Acquired at : 6/18/2014 6:07:25 AM

Report name : Kelso Performance Report 3 [8/24/2011 10:10:34 AM]

Mass Calibration verification

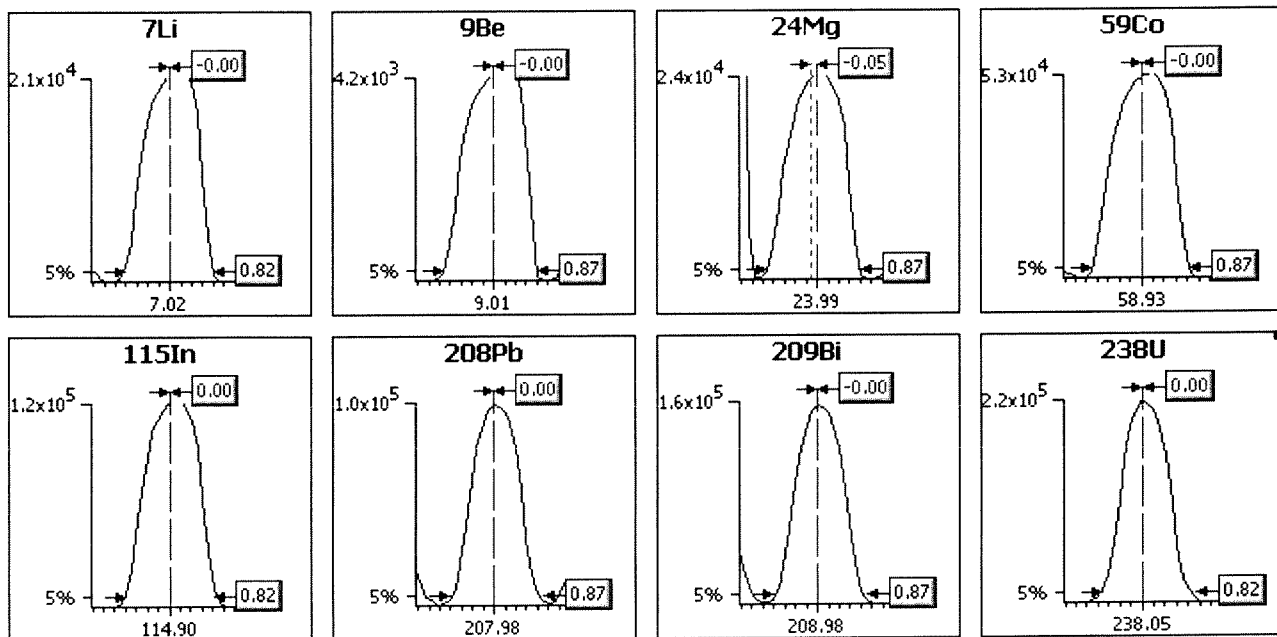
Acquisition parameters

Sweeps : 100

Dwell : 1.0 mSecs

Point spacing : 0.05 amu

Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
7Li	0.90	0.60	0.10	0.82	-0.00
9Be	0.90	0.60	0.10	0.87	-0.00
24Mg	0.90	0.60	0.10	0.87	-0.05
59Co	0.90	0.60	0.10	0.87	-0.00
115In	0.90	0.60	0.10	0.82	0.00
208Pb	0.90	0.60	0.10	0.87	0.00
209Bi	0.90	0.60	0.10	0.87	-0.00
238U	0.90	0.60	0.10	0.82	0.00

Sample details

Acquired at : 6/18/2014 6:07:25 AM

Report name : Kelso Performance Report 3 [8/24/2011 10:10:34 AM]

Tune conditions

Major		Minor		Global		Add. Gases	
Extraction	-122	Lens 2	-19.6	Standard resolution	100		
Lens 1	2.9	Lens 3	-174.9	High resolution	71		
Focus	19.4	Forward power	1247	Analogue Detector	2000		
D1	-37.6	Horizontal	142	PC Detector	3330		
Pole Bias	0.4	Vertical	325				
Hexapole Bias	0.6	D2	-149				
Nebuliser	0.79	DA	-32.9				
Sampling Depth	41	Cool	13.0				
		Auxiliary	0.80				

Sensitivity and stability results

Acquisition parameters

Sweeps : 400

Run	Time	5Bkg	7Li	9Be	24Mg	59Co	115In	140Ce	156Ce O	208Pb
Dwell (mSecs)		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	5.0%	-	-	5.0%
	Countrate	-	>1000	>1000	>1000	>1000	>1000	-	-	>1000
1	6:07:58 AM	0.000	21750.990	4510.369	24249.048	55035.336	124152.51	130031.85	2850.697	107077.67
2	6:09:11 AM	0.000	21558.783	4511.869	24540.579	55018.736	124298.99	129621.81	2919.719	106754.90
3	6:10:24 AM	0.750	21344.528	4489.108	24177.357	54636.441	123661.64	129289.12	2721.657	106843.44
4	6:11:38 AM	0.000	21381.615	4413.321	23878.569	54312.257	122913.09	128428.80	2775.174	105728.26
5	6:12:51 AM	0.250	21595.620	4483.355	24154.296	54524.773	123529.61	128441.48	2780.675	106008.24
x		0.200	21526.307	4481.604	24199.970	54705.509	123711.17	129162.61	2809.584	106482.50
σ		0.33	166.07	40.20	236.81	315.82	550.61	714.31	76.76	581.48
%RSD		162.980	0.771	0.897	0.979	0.577	0.445	0.553	2.732	0.546

Run	Time	209Bi	220Bkg	238U
Dwell (mSecs)		10.0	10.0	10.0
Limits	%RSD	5.0%	-	5.0%
	Countrate	>1000	-	>1000
1	6:07:58 AM	162460.02	0.000	222613.91
2	6:09:11 AM	161797.36	0.250	222110.32
3	6:10:24 AM	162218.01	0.000	222166.16
4	6:11:38 AM	160882.08	0.250	220528.24
5	6:12:51 AM	160578.28	0.000	220295.71
x		161587.15	0.100	221542.87
σ		824.47	0.14	1053.86
%RSD		0.510	136.931	0.476

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0300
1	6:07:58 AM	0.022
2	6:09:11 AM	0.023
3	6:10:24 AM	0.021
4	6:11:38 AM	0.022
5	6:12:51 AM	0.022
x		0.0218
σ		0.00
%RSD		2.4642

Result : The performance report passed.

Dilution Corrected Concentrations

Cal. Blk 6/18/2014 6:40:17 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:40:17	-0.0032	-0.0154	-0.0002	-0.0036	98.9%	98.9%	98.6%	0.0003	-0.0000	-0.0011
2	06:40:44	-0.0059	0.0095	-0.0177	-0.0027	100.6%	99.9%	100.3%	-0.0007	-0.0010	0.0017
3	06:41:10	0.0091	0.0059	0.0179	0.0062	100.4%	101.3%	101.1%	0.0004	0.0011	-0.0006
x		0.0000	0.0000	0.0000	0.0000	100.0%	100.0%	100.0%	0.0000	0.0000	0.0000
σ		0.0080	0.0135	0.0178	0.0054	0.9%	1.2%	1.3%	0.0006	0.0010	0.0015
%RSD		0.0000	0.0000	0.0000	0.0000	0.9	1.2	1.3	0.0000	0.0000	0.0000
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:40:17	0.0029	0.0000	98.4%	98.3%	-0.0016	-0.0010	-0.0011	-0.0024	0.0000	
2	06:40:44	-0.0018	0.0002	100.2%	101.4%	-0.0013	-0.0011	-0.0008	-0.0003	0.0000	
3	06:41:10	-0.0011	-0.0003	101.3%	100.3%	0.0029	0.0020	0.0019	0.0027	-0.0000	
x		0.0000	0.0000	100.0%	100.0%	0.0000	0.0000	0.0000	0.0000	0.0000	
σ		0.0025	0.0003	1.5%	1.6%	0.0025	0.0018	0.0016	0.0025	0.0000	
%RSD		0.0000	0.0000	1.5	1.6	0.0000	0.0000	0.0000	0.0000	0.0000	

Cal. Stn 6/18/2014 6:43:52 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:43:52	25.1144	24.9976	24.7624	25.0713	98.1%	98.3%	98.2%	24.8788	24.7943	25.1567
2	06:44:18	25.0679	24.9099	24.9266	24.8766	100.0%	100.7%	100.6%	25.0289	25.1987	24.9740
3	06:44:45	24.8177	25.0925	25.3110	25.0521	101.2%	102.2%	102.1%	25.0923	25.0070	24.8693
x		25.0000	25.0000	25.0000	25.0000	99.8%	100.4%	100.3%	25.0000	25.0000	25.0000
σ		0.1596	0.0913	0.2816	0.1073	1.6%	2.0%	2.0%	0.1096	0.2023	0.1455
%RSD		0.6382	0.3653	1.1263	0.4292	1.6	1.9	2.0	0.4386	0.8091	0.5819
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:43:52	25.2457	25.0200	98.4%	98.4%	24.9698	24.9940	24.9006	24.5578	24.9398	
2	06:44:18	25.0842	24.9808	101.0%	100.1%	25.1886	25.0309	25.1222	25.1106	25.1751	
3	06:44:45	24.6701	24.9992	103.5%	101.7%	24.8416	24.9752	24.9772	25.3317	24.8851	
x		25.0000	25.0000	101.0%	100.1%	25.0000	25.0000	25.0000	25.0000	25.0000	
σ		0.2969	0.0196	2.5%	1.6%	0.1755	0.0283	0.1125	0.3986	0.1540	
%RSD		1.1876	0.0785	2.5	1.6	0.7019	0.1133	0.4501	1.5945	0.6162	

ICV1 6/18/2014 6:46:38 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:46:38	10.2721	26.5898	30.0603	29.0085	101.0%	100.9%	101.2%	27.2132	27.1526	102.5792
2	06:47:05	10.1811	26.3704	30.3212	29.4878	102.5%	102.3%	103.2%	26.8115	26.8342	101.6741
3	06:47:31	10.1371	26.3204	29.9070	29.0587	103.5%	103.9%	104.4%	26.9077	26.8270	101.7544
x		10.1968	26.4269	30.0962	29.1850	102.3%	102.3%	102.9%	26.9774	26.9379	102.0025
σ		0.0688	0.1433	0.2094	0.2634	1.3%	1.5%	1.6%	0.2097	0.1860	0.5010
%RSD		0.6748	0.5423	0.6959	0.9026	1.2	1.5	1.6	0.7774	0.6903	0.4911
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:46:38	102.4111	106.5915	102.4%	111.9%	23.3506	24.3909	23.8761	23.5888	23.9981	
2	06:47:05	102.4184	106.4200	104.8%	112.3%	23.5136	24.6334	24.0447	24.0881	24.2722	
3	06:47:31	102.1268	105.4885	105.8%	113.5%	23.5419	24.5945	23.9794	24.0400	24.1170	
x		102.3188	106.1667	104.3%	112.6%	23.4687	24.5396	23.9667	23.9056	24.1291	
σ		0.1662	0.5936	1.8%	0.8%	0.1032	0.1303	0.0851	0.2755	0.1374	
%RSD		0.1625	0.5591	1.7	0.7	0.4399	0.5308	0.3549	1.1523	0.5696	

CCV1 6/18/2014 6:49:24 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:49:24	24.8210	25.1679	24.9864	25.2518	100.9%	101.3%	101.3%	25.0393	24.8255	25.0309
2	06:49:50	23.5396	23.9596	23.7808	24.2280	105.1%	104.9%	106.5%	24.1221	23.7558	23.7129
3	06:50:17	24.4312	24.5892	24.7212	24.8521	103.8%	104.4%	104.0%	25.1696	25.1823	24.7409
x		24.2640	24.5722	24.4961	24.7773	103.3%	103.5%	103.9%	24.7770	24.5879	24.4949
σ		0.6569	0.6043	0.6335	0.5160	2.1%	2.0%	2.6%	0.5709	0.7424	0.6926
%RSD		2.7073	2.4594	2.5862	2.0826	2.1	1.9	2.5	2.3042	3.0192	2.8275
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	06:49:24	25.3094	25.1987	100.8%	100.1%	25.1837	25.2202	25.0801	24.7034	25.1254	
2	06:49:50	23.7300	23.9726	105.2%	104.3%	24.1476	24.2069	24.0953	23.7390	23.6667	
3	06:50:17	24.8396	24.9405	103.2%	102.8%	24.8170	24.9280	24.7711	25.5084	24.6410	
x		24.6263	24.7039	103.1%	102.4%	24.7161	24.7851	24.6489	24.6502	24.4777	
σ		0.8110	0.6464	2.2%	2.1%	0.5254	0.5216	0.5037	0.8859	0.7429	
%RSD		3.2932	2.6164	2.2	2.1	2.1257	2.1043	2.0433	3.5939	3.0351	

ICB1 6/18/2014 6:55:59 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:55:59	0.0143	0.0127	-0.0268	0.0002	97.0%	97.7%	97.5%	0.0176	0.0299	-0.0017
2	06:56:26	-0.0107	0.0006	-0.0405	0.0032	99.2%	100.1%	100.3%	0.0236	0.0269	0.0002
3	06:56:52	-0.0125	-0.0045	0.0060	0.0079	100.5%	102.0%	101.7%	0.0277	0.0210	-0.0028
x		-0.0030	0.0029	-0.0204	0.0037	98.9%	99.9%	99.8%	0.0229	0.0259	-0.0015
σ		0.0150	0.0088	0.0239	0.0039	1.8%	2.1%	2.1%	0.0051	0.0045	0.0015
%RSD		504.7232	301.3347	116.9415	103.3442	1.8	2.2	2.1	22.0284	17.4786	104.9542
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	06:55:59	0.0004	0.0002	98.3%	99.9%	-0.0002	0.0009	-0.0005	-0.0018	0.0013	
2	06:56:26	-0.0006	-0.0005	101.0%	101.6%	-0.0003	0.0004	-0.0004	0.0004	0.0015	
3	06:56:52	0.0021	0.0007	102.7%	104.0%	-0.0004	0.0004	0.0000	0.0028	0.0014	
x		0.0006	0.0001	100.6%	101.8%	-0.0003	0.0006	-0.0003	0.0005	0.0014	
σ		0.0014	0.0006	2.2%	2.1%	0.0001	0.0003	0.0003	0.0023	0.0001	
%RSD		210.8397	446.4975	2.2	2.0	27.1760	44.9864	99.9095	504.1325	4.3792	

CCB1 6/18/2014 7:00:06 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:00:06	0.0118	0.0107	-0.0435	-0.0023	97.7%	97.7%	97.3%	0.0107	0.0115	-0.0047
2	07:00:32	-0.0040	0.0027	-0.0649	0.0054	100.4%	100.3%	100.3%	0.0129	0.0143	0.0031
3	07:00:59	-0.0018	-0.0116	-0.0144	0.0026	101.4%	102.0%	102.3%	0.0146	0.0143	0.0050
x		0.0020	0.0006	-0.0409	0.0019	99.8%	100.0%	100.0%	0.0127	0.0134	0.0011
σ		0.0086	0.0113	0.0253	0.0039	1.9%	2.2%	2.5%	0.0019	0.0016	0.0051
%RSD		428.4795	1835.9421	61.8275	200.9531	1.9	2.2	2.5	15.0045	12.1298	459.6114
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:00:06	0.0021	0.0024	98.4%	99.6%	-0.0010	0.0003	-0.0002	-0.0041	0.0012	
2	07:00:32	-0.0006	0.0016	101.3%	101.9%	0.0000	0.0021	0.0004	-0.0003	0.0015	
3	07:00:59	0.0013	0.0022	102.2%	103.5%	0.0027	0.0028	0.0027	0.0009	0.0023	
x		0.0009	0.0021	100.6%	101.7%	0.0006	0.0017	0.0010	-0.0011	0.0017	
σ		0.0014	0.0004	2.0%	1.9%	0.0019	0.0013	0.0015	0.0026	0.0006	
%RSD		151.6107	21.7411	2.0	1.9	339.9030	73.1084	157.4069	227.8705	34.5690	

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:02:57	0.1968	0.5637	0.4567	0.5237	98.9%	99.2%	99.4%	0.0608	0.0625	0.0430
2	07:03:23	0.1939	0.4991	0.5533	0.5120	100.6%	101.6%	100.8%	0.0614	0.0635	0.0456
3	07:03:50	0.2038	0.5221	0.4524	0.5110	101.8%	102.6%	102.7%	0.0602	0.0594	0.0525
x		0.1982	0.5283	0.4875	0.5156	100.4%	101.1%	101.0%	0.0608	0.0618	0.0470
σ		0.0051	0.0327	0.0571	0.0071	1.5%	1.8%	1.7%	0.0006	0.0021	0.0049
%RSD		2.5659	6.1920	11.7040	1.3772	1.5	1.8	1.7	0.9563	3.4773	10.4267
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:02:57	0.0603	0.0541	98.6%	100.5%	0.0202	0.0204	0.0198	-0.0043	0.0197	
2	07:03:23	0.0509	0.0492	101.4%	102.7%	0.0186	0.0196	0.0196	-0.0021	0.0196	
3	07:03:50	0.0503	0.0490	102.6%	104.2%	0.0245	0.0229	0.0230	-0.0011	0.0209	
x		0.0538	0.0508	100.9%	102.5%	0.0211	0.0210	0.0208	-0.0025	0.0201	
σ		0.0056	0.0029	2.1%	1.9%	0.0030	0.0017	0.0019	0.0016	0.0007	
%RSD		10.4181	5.7319	2.0	1.8	14.3341	8.1722	8.9978	65.8730	3.4405	

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:06:03	0.1741	0.1780	0.1967	0.1764	93.5%	94.5%	94.2%	0.1235	0.1252	0.1159
2	07:06:29	0.1093	0.1415	0.1265	0.1504	103.0%	103.0%	102.6%	0.1228	0.0988	0.1073
3	07:06:55	0.1365	0.1568	0.0719	0.1544	103.4%	104.1%	104.9%	0.1069	0.1158	0.1074
x		0.1400	0.1588	0.1317	0.1604	100.0%	100.5%	100.5%	0.1178	0.1133	0.1102
σ		0.0325	0.0183	0.0625	0.0140	5.6%	5.3%	5.6%	0.0094	0.0133	0.0049
%RSD		23.2514	11.5302	47.4975	8.7203	5.6	5.3	5.6	7.9705	11.7756	4.4776
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:06:03	0.1362	0.1271	93.3%	94.5%	0.1135	0.1182	0.1144	0.0486	0.1120	
2	07:06:29	0.1148	0.1099	102.5%	101.8%	0.1020	0.1034	0.0998	0.0536	0.0991	
3	07:06:55	0.1068	0.1086	103.3%	103.3%	0.0968	0.1063	0.0992	0.0629	0.0978	
x		0.1193	0.1152	99.7%	99.9%	0.1041	0.1093	0.1045	0.0551	0.1030	
σ		0.0152	0.0103	5.6%	4.7%	0.0085	0.0078	0.0086	0.0073	0.0079	
%RSD		12.7572	8.9613	5.6	4.8	8.1905	7.1627	8.2445	13.1910	7.6345	

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:08:43	0.4951	2.0253	2.3745	1.9103	88.9%	87.1%	90.9%	0.2776	0.2672	3.4946
2	07:09:09	0.5093	1.9729	2.4489	1.8670	90.2%	88.4%	92.3%	0.2798	0.2761	3.5562
3	07:09:36	0.5107	1.9545	2.4035	1.8643	90.4%	88.9%	93.0%	0.2890	0.2756	3.4920
x		0.5050	1.9842	2.4090	1.8806	89.8%	88.1%	92.0%	0.2821	0.2730	3.5143
σ		0.0086	0.0367	0.0375	0.0258	0.8%	0.9%	1.1%	0.0060	0.0050	0.0364
%RSD		1.7109	1.8510	1.5576	1.3730	0.9	1.1	1.2	2.1397	1.8279	1.0345
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:08:43	3.5266	3.4924	92.2%	107.7%	0.0780	0.0860	0.0773	0.0275	0.0033	
2	07:09:09	3.4963	3.5283	94.0%	104.7%	0.0849	0.0800	0.0802	0.0299	0.0031	
3	07:09:36	3.5851	3.5057	93.9%	102.6%	0.0824	0.0918	0.0829	0.0283	0.0035	
x		3.5360	3.5088	93.3%	105.0%	0.0818	0.0859	0.0801	0.0286	0.0033	
σ		0.0452	0.0182	1.0%	2.5%	0.0035	0.0059	0.0028	0.0012	0.0002	
%RSD		1.2777	0.5177	1.1	2.4	4.2667	6.8978	3.5399	4.2528	5.2231	

ICSAB 6/18/2014 7:11:57 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:11:57	53.5285	26.0082	25.8674	25.4867	87.0%	85.8%	89.6%	0.2586	0.2811	3.3137
2	07:12:24	52.5062	25.9675	25.1716	24.7668	88.8%	86.8%	90.8%	0.2665	0.2639	3.3267
3	07:12:50	52.3579	26.0851	25.2100	24.9815	88.9%	87.6%	91.2%	0.2630	0.2603	3.3631
x		52.7975	26.0203	25.4163	25.0783	88.3%	86.7%	90.5%	0.2627	0.2684	3.3345
σ		0.6373	0.0597	0.3911	0.3696	1.1%	0.9%	0.9%	0.0040	0.0111	0.0256
%RSD		1.2071	0.2295	1.5388	1.4737	1.2	1.0	0.9	1.5042	4.1268	0.7685
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:11:57	3.3586	3.3852	90.9%	99.2%	0.0803	0.0768	0.0761	0.0065	0.0029	
2	07:12:24	3.4127	3.3305	92.4%	99.9%	0.0774	0.0750	0.0770	0.0116	0.0031	
3	07:12:50	3.3347	3.3627	93.9%	100.6%	0.0775	0.0831	0.0765	0.0125	0.0035	
x		3.3687	3.3595	92.4%	99.9%	0.0784	0.0783	0.0765	0.0102	0.0032	
σ		0.0400	0.0275	1.5%	0.7%	0.0016	0.0042	0.0004	0.0032	0.0003	
%RSD		1.1862	0.8184	1.6	0.7	2.0435	5.4112	0.5452	31.8193	8.9629	

K1405912-MB 6/18/2014 7:15:05 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:15:05	0.0617	0.0148	-0.0206	0.0131	94.6%	95.5%	95.8%	0.0051	0.0051	-0.0031
2	07:15:31	0.0443	0.0224	0.0103	0.0023	96.7%	97.0%	97.4%	0.0063	0.0052	-0.0025
3	07:15:57	0.0692	0.0395	0.0341	0.0295	97.3%	98.4%	98.9%	0.0036	0.0037	-0.0019
x		0.0584	0.0255	0.0079	0.0150	96.2%	97.0%	97.4%	0.0050	0.0047	-0.0025
σ		0.0128	0.0127	0.0274	0.0137	1.4%	1.4%	1.6%	0.0014	0.0009	0.0006
%RSD		21.9065	49.6285	345.0264	91.4678	1.5	1.5	1.6	27.2117	18.2274	23.7824
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:15:05	0.0019	0.0026	96.1%	95.9%	-0.0007	0.0023	0.0000	-0.0034	0.0003	
2	07:15:31	0.0029	0.0044	98.9%	97.7%	-0.0005	0.0009	0.0002	-0.0005	0.0003	
3	07:15:57	-0.0005	0.0038	100.8%	99.7%	-0.0009	0.0003	-0.0002	-0.0002	0.0003	
x		0.0014	0.0036	98.6%	97.7%	-0.0007	0.0012	0.0000	-0.0013	0.0003	
σ		0.0018	0.0009	2.4%	1.9%	0.0002	0.0010	0.0002	0.0018	0.0000	
%RSD		124.1068	25.5629	2.4	2.0	31.2332	84.3731	801.9786	131.4795	7.4475	

LCSW 6/18/2014 7:17:55 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:17:55	10.0177	26.0325	29.8031	28.8449	97.1%	97.4%	97.6%	51.3893	51.4104	101.2810
2	07:18:21	9.9630	25.6565	29.7463	28.5080	98.8%	99.6%	99.7%	51.1974	50.7968	100.0484
3	07:18:47	9.9684	25.7542	29.1474	28.5188	99.9%	100.6%	101.1%	51.3179	50.6302	99.7935
x		9.9830	25.8144	29.5656	28.6239	98.6%	99.2%	99.5%	51.3015	50.9458	100.3743
σ		0.0302	0.1951	0.3633	0.1915	1.4%	1.7%	1.8%	0.0970	0.4109	0.7955
%RSD		0.3020	0.7558	1.2287	0.6691	1.4	1.7	1.8	0.1891	0.8065	0.7925
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:17:55	101.2121	104.7680	98.0%	98.1%	49.5578	51.6624	50.7291	-0.0018	20.5792	
2	07:18:21	100.3499	103.9337	100.5%	99.9%	49.2612	51.3542	50.3597	0.0008	20.4100	
3	07:18:47	100.0401	103.2978	101.3%	101.5%	49.1186	51.7768	50.6790	0.0017	20.2642	
x		100.5340	103.9998	100.0%	99.8%	49.3125	51.5978	50.5893	0.0002	20.4178	
σ		0.6073	0.7373	1.7%	1.7%	0.2241	0.2185	0.2003	0.0018	0.1576	
%RSD		0.6041	0.7090	1.7	1.7	0.4544	0.4236	0.3960	798.2205	0.7720	

K1405912-002 1/2 6/18/2014 7:20:44 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:20:44	0.4339	4.0854	25.5676	20.1391	83.1%	80.1%	86.1%	0.3141	0.3229	490.7843
2	07:21:10	0.4229	4.1027	24.8545	19.9712	84.2%	81.6%	86.7%	0.3231	0.3590	493.6303
3	07:21:37	0.4166	4.0090	25.2586	20.1160	83.8%	81.7%	87.4%	0.3163	0.3317	492.1459
x		0.4245	4.0657	25.2269	20.0754	83.7%	81.2%	86.7%	0.3179	0.3379	492.1868
σ		0.0087	0.0498	0.3576	0.0910	0.5%	0.9%	0.7%	0.0047	0.0188	1.4235
%RSD		2.0609	1.2259	1.4177	0.4533	0.6	1.1	0.8	1.4729	5.5780	0.2892
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:20:44	499.7875	542.9450	90.3%	96.9%	1.4553	1.4183	1.4286	-0.0029	0.3271	
2	07:21:10	496.8244	535.4567	92.3%	95.7%	1.4914	1.4458	1.4718	-0.0008	0.3414	
3	07:21:37	497.0031	534.5968	91.9%	95.4%	1.5364	1.4774	1.4841	0.0003	0.3450	
x		497.8717	537.6662	91.5%	96.0%	1.4944	1.4471	1.4615	-0.0012	0.3378	
σ		1.6615	4.5918	1.0%	0.8%	0.0406	0.0296	0.0292	0.0016	0.0095	
%RSD		0.3337	0.8540	1.1	0.9	2.7182	2.0430	1.9950	141.0485	2.8026	

K1405912-002D 1/2 6/18/2014 7:23:50 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:23:50	0.4177	4.1568	25.6062	20.2624	82.3%	79.4%	84.7%	0.2632	0.2660	497.2698
2	07:24:16	0.4075	4.1409	25.2460	20.0113	83.7%	80.8%	86.8%	0.2487	0.2409	490.2591
3	07:24:43	0.4246	4.1594	25.0733	19.8337	84.3%	81.9%	86.9%	0.2551	0.2633	493.2229
x		0.4166	4.1524	25.3085	20.0358	83.4%	80.7%	86.1%	0.2557	0.2567	493.5839
σ		0.0086	0.0100	0.2719	0.2154	1.0%	1.3%	1.2%	0.0072	0.0138	3.5193
%RSD		2.0605	0.2416	1.0742	1.0750	1.2	1.6	1.4	2.8286	5.3566	0.7130
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:23:50	502.0768	546.9532	89.8%	91.8%	1.5326	1.4494	1.4899	-0.0035	0.3355	
2	07:24:16	494.2851	532.5865	91.5%	93.3%	1.5402	1.4921	1.4863	-0.0012	0.3378	
3	07:24:43	501.2173	540.6673	91.7%	91.4%	1.5537	1.5059	1.5119	-0.0018	0.3429	
x		499.1931	540.0690	91.0%	92.1%	1.5422	1.4825	1.4960	-0.0021	0.3387	
σ		4.2721	7.2020	1.0%	1.0%	0.0107	0.0295	0.0138	0.0012	0.0038	
%RSD		0.8558	1.3335	1.1	1.1	0.6907	1.9885	0.9257	55.8660	1.1140	

K1405912-002L 1/10 6/18/2014 7:26:56 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:26:56	0.0848	0.8943	5.7973	4.6512	92.0%	91.6%	93.7%	0.0619	0.0545	96.2302
2	07:27:22	0.0855	0.9185	5.3507	4.5082	93.4%	92.6%	95.4%	0.0592	0.0568	94.2383
3	07:27:48	0.0712	0.9169	5.7078	4.4695	93.9%	93.4%	96.4%	0.0582	0.0495	96.5647
x		0.0805	0.9099	5.6186	4.5429	93.1%	92.5%	95.1%	0.0598	0.0536	95.6777
σ		0.0080	0.0135	0.2363	0.0957	1.0%	0.9%	1.4%	0.0019	0.0037	1.2578
%RSD		9.9908	1.4866	4.2055	2.1064	1.1	1.0	1.4	3.1966	6.9485	1.3146
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:26:56	96.1487	98.7963	96.1%	101.5%	0.3135	0.3044	0.3040	-0.0056	0.0630	
2	07:27:22	94.2668	97.6066	98.7%	104.8%	0.3010	0.2905	0.2931	-0.0037	0.0672	
3	07:27:48	95.8980	99.1973	98.7%	106.0%	0.3089	0.3025	0.3003	-0.0032	0.0644	
x		95.4378	98.5334	97.8%	104.1%	0.3078	0.2991	0.2991	-0.0042	0.0649	
σ		1.0219	0.8273	1.5%	2.3%	0.0063	0.0076	0.0056	0.0013	0.0021	
%RSD		1.0707	0.8396	1.6	2.2	2.0541	2.5281	1.8606	30.1441	3.2981	

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:29:58	19.8035	21.0338	40.7337	36.0543	84.7%	81.9%	86.9%	15.6962	15.4711	485.6472
2	07:30:24	20.6219	22.1872	42.8769	38.0262	83.5%	81.6%	86.6%	16.3301	16.1505	505.8171
3	07:30:51	20.3399	22.1619	41.5639	37.8002	84.5%	82.3%	87.8%	16.2130	16.0437	500.8519
x		20.2551	21.7943	41.7248	37.2936	84.2%	81.9%	87.1%	16.0798	15.8884	497.4387
σ		0.4157	0.6588	1.0807	1.0792	0.6%	0.3%	0.6%	0.3373	0.3654	10.5092
%RSD		2.0524	3.0226	2.5900	2.8938	0.7	0.4	0.7	2.0977	2.2996	2.1127
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:29:58	490.1039	532.9943	92.6%	92.3%	18.5728	18.5450	18.4808	-0.0050	18.9024	
2	07:30:24	510.4117	550.4338	91.3%	92.3%	19.0876	19.2275	19.0354	-0.0026	19.6848	
3	07:30:51	506.4239	544.2969	92.9%	93.0%	19.2947	19.2061	19.1252	-0.0024	19.6189	
x		502.3132	542.5750	92.3%	92.5%	18.9850	18.9929	18.8805	-0.0033	19.4021	
σ		10.7598	8.8464	0.9%	0.4%	0.3717	0.3880	0.3490	0.0014	0.4339	
%RSD		2.1421	1.6304	0.9	0.5	1.9580	2.0430	1.8487	42.6897	2.2366	

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:33:04	5.6258	15.9003	38.9785	33.0017	84.1%	80.9%	86.0%	26.0493	25.9506	550.5633
2	07:33:30	5.5887	15.7940	39.0806	33.4089	84.0%	82.3%	87.1%	26.1749	25.9265	550.2987
3	07:33:56	5.4763	15.4077	38.7666	32.8748	85.8%	83.3%	88.7%	25.7084	25.8272	548.9071
x		5.5636	15.7007	38.9419	33.0951	84.6%	82.1%	87.3%	25.9775	25.9014	549.9230
σ		0.0778	0.2592	0.1602	0.2791	1.0%	1.2%	1.3%	0.2414	0.0654	0.8897
%RSD		1.3992	1.6509	0.4113	0.8432	1.2	1.5	1.5	0.9292	0.2526	0.1618
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:33:04	556.4696	603.3585	91.3%	89.8%	24.0490	24.9276	24.3980	-0.0055	10.4290	
2	07:33:30	557.1016	596.3749	92.4%	91.6%	23.8467	24.9231	24.2730	-0.0037	10.3406	
3	07:33:56	557.7038	594.4633	93.8%	92.2%	23.8125	24.7280	24.1646	-0.0029	10.4523	
x		557.0917	598.0656	92.5%	91.2%	23.9027	24.8595	24.2785	-0.0040	10.4073	
σ		0.6172	4.6824	1.3%	1.2%	0.1278	0.1140	0.1168	0.0013	0.0589	
%RSD		0.1108	0.7829	1.4	1.4	0.5346	0.4585	0.4810	32.7493	0.5657	

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:36:11	0.2581	4.2717	16.8385	13.9705	86.6%	85.2%	89.5%	0.1963	0.1823	276.7281
2	07:36:37	0.2317	4.3359	16.8280	13.8618	88.2%	86.9%	91.5%	0.2047	0.2058	273.1939
3	07:37:03	0.2442	4.2035	16.1238	13.5884	89.2%	87.5%	92.7%	0.2070	0.2127	271.2755
x		0.2447	4.2704	16.5968	13.8069	88.0%	86.5%	91.2%	0.2027	0.2003	273.7325
σ		0.0132	0.0662	0.4097	0.1969	1.3%	1.2%	1.6%	0.0056	0.0159	2.7659
%RSD		5.3898	1.5509	2.4684	1.4258	1.5	1.4	1.7	2.7690	7.9444	1.0104
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:36:11	278.0417	303.9527	92.6%	92.6%	0.1303	0.1307	0.1256	-0.0064	0.3515	
2	07:36:37	273.3710	296.5676	95.5%	95.5%	0.1424	0.1438	0.1415	-0.0040	0.3460	
3	07:37:03	273.5821	296.1492	95.9%	96.1%	0.1448	0.1472	0.1449	-0.0026	0.3490	
x		274.9982	298.8898	94.7%	94.8%	0.1392	0.1406	0.1373	-0.0043	0.3488	
σ		2.6378	4.3896	1.8%	1.9%	0.0078	0.0087	0.0103	0.0019	0.0028	
%RSD		0.9592	1.4686	1.9	2.0	5.5883	6.2207	7.5047	44.3573	0.7901	

K1405880-001 6/18/2014 7:48:13 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:48:13	1.5285	0.4280	6.7167	5.1029	82.4%	80.2%	84.5%	0.1577	0.1666	143.5941
2	07:48:39	1.5270	0.4071	6.6505	5.1228	83.9%	82.3%	86.8%	0.1659	0.1795	143.0150
3	07:49:05	1.4719	0.4255	6.7516	5.0091	85.1%	83.4%	88.1%	0.1681	0.1750	142.0360
x		1.5091	0.4202	6.7062	5.0783	83.8%	82.0%	86.4%	0.1639	0.1737	142.8817
σ		0.0323	0.0114	0.0514	0.0607	1.4%	1.6%	1.8%	0.0055	0.0065	0.7876
%RSD		2.1381	2.7164	0.7661	1.1949	1.6	2.0	2.1	3.3575	3.7545	0.5512
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:48:13	143.4664	149.1034	89.1%	89.8%	0.0189	0.0217	0.0197	-0.0011	10.3331	
2	07:48:39	142.5849	149.5648	92.4%	92.3%	0.0211	0.0197	0.0209	0.0002	10.3891	
3	07:49:05	141.7851	148.5156	93.8%	93.6%	0.0197	0.0220	0.0210	-0.0003	10.2729	
x		142.6121	149.0613	91.8%	91.9%	0.0199	0.0212	0.0206	-0.0004	10.3317	
σ		0.8410	0.5259	2.4%	1.9%	0.0011	0.0012	0.0007	0.0007	0.0581	
%RSD		0.5897	0.3528	2.6	2.1	5.4869	5.7905	3.4393	174.9168	0.5628	

K1405880-001L 6/18/2014 7:51:18 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:18	0.2911	0.0912	1.5519	1.1295	90.7%	90.5%	92.7%	0.0379	0.0397	28.3547
2	07:51:44	0.3091	0.1027	1.6194	1.1718	93.5%	92.4%	94.5%	0.0357	0.0407	28.2262
3	07:52:11	0.2762	0.1322	1.4865	1.0768	93.9%	92.4%	95.4%	0.0317	0.0400	28.0481
x		0.2922	0.1087	1.5526	1.1261	92.7%	91.8%	94.2%	0.0351	0.0401	28.2097
σ		0.0165	0.0211	0.0664	0.0476	1.8%	1.1%	1.3%	0.0032	0.0005	0.1540
%RSD		5.6411	19.4301	4.2772	4.2252	1.9	1.2	1.4	9.0455	1.2141	0.5459
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:51:18	28.2045	28.5046	94.9%	99.4%	0.0033	0.0049	0.0038	-0.0079	1.9620	
2	07:51:44	28.5434	28.1849	96.9%	100.2%	0.0038	0.0051	0.0042	-0.0066	1.9683	
3	07:52:11	27.8869	28.3993	98.5%	102.9%	0.0021	0.0027	0.0032	-0.0061	1.9569	
x		28.2116	28.3629	96.8%	100.8%	0.0031	0.0042	0.0037	-0.0069	1.9624	
σ		0.3283	0.1629	1.8%	1.9%	0.0009	0.0013	0.0005	0.0009	0.0057	
%RSD		1.1638	0.5744	1.9	1.9	27.9150	31.7652	13.0382	13.5695	0.2917	

CCV2 6/18/2014 7:54:29 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:54:29	24.8040	25.1948	24.9239	25.0679	95.2%	94.3%	95.4%	24.9078	24.7842	24.9416
2	07:54:55	24.6615	25.1851	25.3991	25.1951	95.9%	96.3%	97.6%	25.0983	25.0299	24.8346
3	07:55:21	24.6856	24.9703	24.7141	25.2052	97.0%	96.8%	98.2%	25.0510	25.0733	24.8266
x		24.7170	25.1167	25.0124	25.1561	96.0%	95.8%	97.1%	25.0190	24.9625	24.8676
σ		0.0762	0.1269	0.3510	0.0765	0.9%	1.3%	1.5%	0.0992	0.1559	0.0642
%RSD		0.3084	0.5054	1.4031	0.3042	1.0	1.4	1.5	0.3964	0.6247	0.2583
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:54:29	25.0476	25.1434	95.6%	92.5%	25.8370	25.6560	25.6463	25.4722	25.6973	
2	07:54:55	24.6806	24.8648	98.7%	94.9%	25.5663	25.7224	25.6217	25.5145	25.4660	
3	07:55:21	24.8322	24.8126	99.0%	96.7%	25.1343	25.2275	25.2455	25.3727	25.1995	
x		24.8535	24.9403	97.7%	94.7%	25.5125	25.5353	25.5045	25.4531	25.4543	
σ		0.1844	0.1779	1.9%	2.1%	0.3544	0.2686	0.2247	0.0728	0.2491	
%RSD		0.7419	0.7131	1.9	2.2	1.3892	1.0519	0.8809	0.2860	0.9788	

CCB2 6/18/2014 8:00:50 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:00:50	0.0077	0.0232	-0.0207	0.0074	90.0%	89.6%	90.8%	0.0209	0.0194	-0.0003
2	08:01:16	-0.0051	0.0199	0.0668	0.0185	92.6%	91.8%	93.0%	0.0283	0.0266	0.0180
3	08:01:43	0.0169	0.0215	0.0683	0.0184	94.1%	93.4%	94.6%	0.0303	0.0323	0.0176
x		0.0065	0.0216	0.0382	0.0147	92.2%	91.6%	92.8%	0.0265	0.0261	0.0118
σ		0.0111	0.0016	0.0510	0.0063	2.1%	1.9%	1.9%	0.0049	0.0065	0.0105
%RSD		170.0574	7.6278	133.5534	43.0140	2.2	2.1	2.1	18.6655	24.7325	88.7885
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:00:50	-0.0007	0.0031	92.1%	90.6%	0.0021	0.0020	0.0016	-0.0019	0.0029	
2	08:01:16	0.0196	0.0182	95.7%	94.6%	0.0118	0.0144	0.0135	0.0012	0.0112	
3	08:01:43	0.0201	0.0225	96.3%	94.7%	0.0175	0.0180	0.0176	0.0041	0.0151	
x		0.0130	0.0146	94.7%	93.3%	0.0105	0.0115	0.0109	0.0011	0.0097	
σ		0.0119	0.0102	2.3%	2.4%	0.0078	0.0084	0.0083	0.0030	0.0062	
%RSD		91.4062	69.8855	2.4	2.5	74.0981	73.3049	76.3470	270.4945	64.0380	

LLCCVW1 6/18/2014 8:03:51 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:03:51	0.1527	0.5283	0.5669	0.4402	96.2%	95.1%	97.5%	0.0609	0.0549	0.0503
2	08:04:17	0.1451	0.5186	0.4131	0.5030	98.8%	98.5%	100.2%	0.0534	0.0613	0.0451
3	08:04:44	0.1849	0.5656	0.4975	0.5288	95.5%	95.4%	96.3%	0.0620	0.0696	0.0585
x		0.1609	0.5375	0.4925	0.4907	96.8%	96.3%	98.0%	0.0588	0.0619	0.0513
σ		0.0212	0.0248	0.0771	0.0456	1.7%	1.9%	2.0%	0.0047	0.0074	0.0068
%RSD		13.1509	4.6153	15.6466	9.2867	1.8	1.9	2.0	7.9813	11.8684	13.1649
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:03:51	0.0544	0.0537	98.9%	96.5%	0.0218	0.0226	0.0222	-0.0041	0.0210	
2	08:04:17	0.0466	0.0507	101.6%	102.7%	0.0208	0.0216	0.0227	-0.0031	0.0208	
3	08:04:44	0.0521	0.0568	98.3%	100.0%	0.0247	0.0267	0.0250	-0.0022	0.0235	
x		0.0510	0.0537	99.6%	99.7%	0.0224	0.0236	0.0233	-0.0031	0.0218	
σ		0.0040	0.0030	1.8%	3.1%	0.0020	0.0027	0.0014	0.0010	0.0015	
%RSD		7.8566	5.6646	1.8	3.1	9.0785	11.3192	6.2039	30.4301	7.0063	

K1405880-01A 6/18/2014 8:08:12 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:08:12	21.8958	19.2788	25.3111	24.0822	83.8%	81.6%	87.1%	20.3666	20.1413	158.8573
2	08:08:38	22.1527	19.6732	25.5203	23.8798	84.4%	82.9%	88.3%	20.4698	20.5016	159.2920
3	08:09:05	21.3161	19.0847	25.7912	23.6338	86.5%	84.7%	90.0%	20.3395	19.8107	157.9938
x		21.7882	19.3456	25.5408	23.8652	84.9%	83.1%	88.5%	20.3919	20.1512	158.7144
σ		0.4285	0.2999	0.2407	0.2245	1.4%	1.6%	1.5%	0.0687	0.3456	0.6608
%RSD		1.9668	1.5501	0.9424	0.9409	1.6	1.9	1.7	0.3371	1.7148	0.4164
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:08:12	160.3352	168.0175	92.0%	98.6%	17.5195	17.3367	17.3850	-0.0028	28.4954	
2	08:08:38	159.7828	168.4718	94.5%	97.4%	18.0378	18.0025	17.9247	-0.0007	29.5061	
3	08:09:05	158.1866	166.6937	95.3%	99.4%	17.5319	17.4553	17.5513	0.0007	28.7954	
x		159.4349	167.7276	94.0%	98.5%	17.6964	17.5982	17.6204	-0.0010	28.9323	
σ		1.1158	0.9238	1.7%	1.0%	0.2957	0.3552	0.2764	0.0018	0.5191	
%RSD		0.6998	0.5508	1.8	1.0	1.6712	2.0182	1.5684	182.3371	1.7942	

K1405580-002 6/18/2014 8:12:35 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:12:35	0.4063	0.5892	9.9424	7.3574	85.3%	83.3%	88.4%	0.1374	0.1408	211.6325
2	08:13:02	0.4120	0.6665	9.8570	7.2452	87.3%	85.1%	90.6%	0.1440	0.1467	210.1874
3	08:13:28	0.4062	0.5943	9.2903	7.1200	88.2%	85.9%	91.0%	0.1423	0.1431	210.4112
x		0.4082	0.6167	9.6966	7.2409	86.9%	84.7%	90.0%	0.1412	0.1435	210.7437
σ		0.0033	0.0432	0.3544	0.1188	1.5%	1.3%	1.4%	0.0034	0.0030	0.7778
%RSD		0.8142	7.0079	3.6549	1.6403	1.7	1.6	1.5	2.3998	2.0908	0.3691
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:12:35	210.8181	231.1178	91.6%	94.8%	0.0502	0.0508	0.0488	-0.0054	29.1636	
2	08:13:02	210.3650	228.4306	94.1%	95.2%	0.0518	0.0489	0.0508	-0.0034	29.5547	
3	08:13:28	209.6993	229.2898	95.8%	95.1%	0.0501	0.0492	0.0505	-0.0034	29.7558	
x		210.2942	229.6127	93.8%	95.0%	0.0507	0.0496	0.0501	-0.0041	29.4914	
σ		0.5628	1.3724	2.1%	0.2%	0.0009	0.0010	0.0011	0.0012	0.3012	
%RSD		0.2676	0.5977	2.2	0.2	1.8601	2.0743	2.1414	28.7001	1.0212	

K1405880-003 6/18/2014 8:16:01 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:01	0.5809	1.7836	45.0260	33.9532	88.2%	84.8%	89.2%	0.1520	0.1431	986.3715
2	08:16:28	0.5888	1.8019	44.1118	33.1880	90.4%	87.3%	92.0%	0.1485	0.1508	980.5379
3	08:16:54	0.6058	1.6876	44.2840	33.9948	90.8%	87.3%	93.3%	0.1552	0.1503	975.3813
x		0.5918	1.7577	44.4739	33.7120	89.8%	86.5%	91.5%	0.1519	0.1481	980.7636
σ		0.0127	0.0614	0.4858	0.4543	1.4%	1.5%	2.1%	0.0034	0.0043	5.4985
%RSD		2.1456	3.4917	1.0923	1.3475	1.6	1.7	2.3	2.2209	2.9177	0.5606
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:16:01	1016.4221	1075.5433	91.8%	92.2%	0.2060	0.1882	0.1962	0.0069	0.1114	
2	08:16:28	1006.3794	1053.8883	94.2%	93.9%	0.1986	0.1843	0.1933	0.0096	0.1181	
3	08:16:54	1005.2500	1046.1576	94.9%	94.5%	0.2048	0.1950	0.1992	0.0111	0.1246	
x		1009.3505	1058.5297	93.6%	93.5%	0.2031	0.1891	0.1962	0.0092	0.1180	
σ		6.1501	15.2328	1.7%	1.2%	0.0040	0.0054	0.0030	0.0021	0.0066	
%RSD		0.6093	1.4390	1.8	1.3	1.9705	2.8642	1.5125	22.6973	5.5702	

K1405721-MB 6/18/2014 8:26:05 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:26:05	0.0080	-0.0110	-0.0295	-0.0107	95.3%	94.7%	95.0%	0.0054	0.0047	0.0193
2	08:26:32	0.0078	-0.0018	0.0205	-0.0234	98.4%	97.7%	98.3%	0.0040	0.0090	0.0399
3	08:26:58	0.0022	-0.0075	-0.0287	-0.0147	99.5%	99.5%	100.0%	0.0066	0.0048	0.0245
x		0.0060	-0.0068	-0.0126	-0.0163	97.7%	97.3%	97.8%	0.0053	0.0062	0.0279
σ		0.0033	0.0046	0.0287	0.0065	2.2%	2.4%	2.5%	0.0013	0.0024	0.0107
%RSD		55.0559	68.4021	228.1093	39.8164	2.2	2.5	2.6	24.5887	39.4310	38.4421
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:26:05	0.0150	0.0153	94.0%	99.5%	0.0252	0.0248	0.0302	-0.0087	0.0003	
2	08:26:32	0.0369	0.0336	97.1%	102.9%	0.0454	0.0413	0.0476	-0.0088	0.0007	
3	08:26:58	0.0345	0.0355	98.5%	102.9%	0.0220	0.0259	0.0263	-0.0082	0.0005	
x		0.0288	0.0281	96.5%	101.7%	0.0309	0.0307	0.0347	-0.0086	0.0005	
σ		0.0120	0.0112	2.3%	2.0%	0.0127	0.0092	0.0114	0.0003	0.0002	
%RSD		41.6248	39.7389	2.4	1.9	41.1379	30.1442	32.7227	3.7810	39.8420	

K1405721-001 6/18/2014 8:28:49 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:28:49	0.1371	0.2444	0.2014	0.0807	90.7%	87.2%	92.4%	0.0403	0.0435	0.5835
2	08:29:16	0.1540	0.2371	0.1377	0.1084	93.3%	89.9%	95.0%	0.0424	0.0418	0.5723
3	08:29:42	0.1426	0.2126	0.1713	0.1261	94.9%	91.7%	97.2%	0.0451	0.0431	0.5716
x		0.1446	0.2314	0.1701	0.1051	93.0%	89.6%	94.8%	0.0426	0.0428	0.5758
σ		0.0087	0.0167	0.0318	0.0229	2.1%	2.2%	2.4%	0.0024	0.0009	0.0067
%RSD		5.9836	7.2013	18.7208	21.7518	2.3	2.5	2.6	5.6209	2.1394	1.1568
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:28:49	0.6116	0.5741	93.5%	101.4%	0.0012	0.0029	0.0019	-0.0087	0.0015	
2	08:29:16	0.5849	0.5828	95.9%	101.4%	0.0028	0.0054	0.0030	-0.0066	0.0017	
3	08:29:42	0.5671	0.5894	98.0%	100.7%	0.0034	0.0047	0.0038	-0.0061	0.0019	
x		0.5879	0.5821	95.8%	101.2%	0.0025	0.0043	0.0029	-0.0071	0.0017	
σ		0.0224	0.0077	2.3%	0.4%	0.0012	0.0013	0.0009	0.0014	0.0002	
%RSD		3.8116	1.3265	2.4	0.4	46.2657	29.7213	32.6751	19.2552	10.5663	

K1405721-001D 6/18/2014 8:31:51 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:31:51	0.1768	0.2159	0.2625	0.0957	91.8%	88.2%	93.9%	0.0429	0.0451	0.6160
2	08:32:17	0.1867	0.2488	0.2544	0.1416	93.9%	90.4%	96.2%	0.0418	0.0422	0.5872
3	08:32:44	0.1407	0.2541	0.2185	0.1215	94.5%	91.6%	97.4%	0.0387	0.0455	0.6158
x		0.1681	0.2396	0.2452	0.1196	93.4%	90.0%	95.8%	0.0412	0.0443	0.6063
σ		0.0242	0.0207	0.0234	0.0230	1.4%	1.7%	1.8%	0.0022	0.0018	0.0166
%RSD		14.4235	8.6307	9.5579	19.2232	1.5	1.9	1.9	5.3250	4.0577	2.7347
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:31:51	0.6128	0.5969	94.2%	94.8%	0.0032	0.0030	0.0027	-0.0073	0.0013	
2	08:32:17	0.5696	0.5880	96.5%	95.9%	0.0012	0.0020	0.0025	-0.0061	0.0016	
3	08:32:44	0.5983	0.5869	97.4%	97.4%	0.0014	0.0032	0.0026	-0.0064	0.0016	
x		0.5936	0.5906	96.0%	96.0%	0.0019	0.0027	0.0026	-0.0066	0.0015	
σ		0.0220	0.0055	1.7%	1.3%	0.0011	0.0006	0.0001	0.0007	0.0001	
%RSD		3.7002	0.9233	1.7	1.4	57.1304	23.4825	3.9471	9.9371	8.9825	

K1405721-001L 1/5 6/18/2014 8:34:52 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:34:52	0.1019	0.1259	0.0929	0.0631	104.5%	104.4%	106.2%	0.0085	0.0077	0.1176
2	08:35:19	0.0890	0.1101	0.1218	0.0487	106.9%	106.0%	107.8%	0.0120	0.0104	0.1249
3	08:35:45	0.0863	0.1628	0.1052	0.0580	107.8%	106.7%	108.7%	0.0102	0.0105	0.1055
x		0.0924	0.1329	0.1066	0.0566	106.4%	105.7%	107.6%	0.0103	0.0096	0.1160
σ		0.0083	0.0270	0.0145	0.0073	1.7%	1.1%	1.2%	0.0018	0.0016	0.0098
%RSD		9.0012	20.3288	13.6083	12.9096	1.6	1.1	1.2	17.2967	16.4374	8.4622
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:34:52	0.1361	0.1165	102.9%	110.8%	0.0011	0.0020	0.0017	-0.0092	0.0001	
2	08:35:19	0.1144	0.1152	105.4%	113.6%	-0.0004	0.0033	0.0009	-0.0074	0.0003	
3	08:35:45	0.1197	0.1117	106.4%	116.1%	-0.0003	0.0017	0.0011	-0.0082	0.0005	
x		0.1234	0.1145	104.9%	113.5%	0.0001	0.0024	0.0012	-0.0083	0.0003	
σ		0.0113	0.0025	1.8%	2.7%	0.0008	0.0009	0.0004	0.0009	0.0002	
%RSD		9.1838	2.1571	1.7	2.3	678.7412	36.5567	31.5315	10.8313	60.3460	

K1405721-001A 6/18/2014 8:37:41 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:37:41	20.8378	17.6786	17.4799	17.9117	91.9%	89.1%	94.4%	19.5296	19.3754	21.2087
2	08:38:07	20.7642	17.8066	17.9587	17.6911	93.6%	90.8%	95.8%	19.5036	19.1891	21.1872
3	08:38:34	20.3967	17.8503	17.7972	17.6077	94.0%	91.1%	96.8%	19.7412	19.5128	21.1572
x		20.6663	17.7785	17.7453	17.7368	93.2%	90.3%	95.7%	19.5915	19.3591	21.1844
σ		0.2363	0.0892	0.2435	0.1571	1.1%	1.1%	1.2%	0.1303	0.1624	0.0258
%RSD		1.1434	0.5017	1.3725	0.8857	1.2	1.2	1.2	0.6650	0.8391	0.1220
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:37:41	21.1902	21.1264	95.0%	93.9%	17.5831	17.7669	17.6805	-0.0086	19.1208	
2	08:38:07	21.2341	21.1161	96.8%	95.9%	17.6152	17.5374	17.4924	-0.0062	18.9043	
3	08:38:34	21.2595	21.1909	98.6%	95.7%	17.7241	17.7343	17.6869	-0.0065	19.0639	
x		21.2279	21.1445	96.8%	95.2%	17.6408	17.6795	17.6199	-0.0071	19.0297	
σ		0.0350	0.0406	1.8%	1.1%	0.0739	0.1242	0.1105	0.0013	0.1122	
%RSD		0.1650	0.1918	1.9	1.2	0.4188	0.7022	0.6272	18.2441	0.5898	

K1405721-001S 6/18/2014 8:40:41 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:40:41	10.5905	22.9722	27.4625	25.0519	90.9%	88.3%	93.5%	51.3015	50.3658	104.7169
2	08:41:07	10.3663	22.5475	26.2043	24.7787	93.6%	90.4%	96.4%	50.7655	50.2267	104.8962
3	08:41:33	10.3170	22.6411	25.4774	24.7770	93.6%	91.7%	97.5%	49.3359	49.0403	103.0462
x		10.4246	22.7203	26.3814	24.8692	92.7%	90.1%	95.8%	50.4677	49.8776	104.2197
σ		0.1458	0.2232	1.0044	0.1582	1.6%	1.7%	2.1%	1.0161	0.7285	1.0203
%RSD		1.3983	0.9823	3.8071	0.6363	1.7	1.9	2.2	2.0134	1.4605	0.9790
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:40:41	104.6769	108.0448	94.5%	93.9%	43.1002	44.8742	44.0096	-0.0088	19.3760	
2	08:41:07	103.6017	107.1247	96.2%	94.7%	43.6665	45.5103	44.5521	-0.0073	19.5244	
3	08:41:33	102.2474	106.4873	98.1%	96.7%	43.2473	44.7775	43.9584	-0.0073	19.2844	
x		103.5087	107.2189	96.3%	95.1%	43.3380	45.0540	44.1734	-0.0078	19.3949	
σ		1.2174	0.7830	1.8%	1.4%	0.2939	0.3981	0.3290	0.0009	0.1211	
%RSD		1.1761	0.7303	1.9	1.5	0.6781	0.8837	0.7448	11.2216	0.6245	

LCSW 6/18/2014 8:43:19 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:43:19	9.9026	25.7682	29.2485	28.7387	106.0%	106.7%	106.2%	51.5543	50.9410	101.5459
2	08:43:46	9.8040	25.3034	29.4445	28.3277	106.7%	108.1%	108.3%	50.4796	50.6491	99.3125
3	08:44:12	9.7247	25.5229	29.2229	28.4844	106.0%	106.9%	107.1%	51.1453	51.0608	100.7226
x		9.8104	25.5315	29.3053	28.5169	106.2%	107.2%	107.2%	51.0597	50.8836	100.5270
σ		0.0891	0.2325	0.1212	0.2074	0.5%	0.7%	1.1%	0.5424	0.2118	1.1295
%RSD		0.9085	0.9106	0.4137	0.7273	0.4	0.7	1.0	1.0623	0.4162	1.1236
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:43:19	102.5304	105.9399	103.1%	100.5%	49.5540	51.8426	50.5758	-0.0085	20.0744	
2	08:43:46	99.4641	103.0164	104.3%	103.1%	48.0494	50.4236	49.3389	-0.0078	19.6388	
3	08:44:12	100.8233	104.6023	105.1%	104.4%	47.9053	49.9980	48.9630	-0.0070	19.5642	
x		100.9393	104.5195	104.2%	102.7%	48.5029	50.7547	49.6259	-0.0078	19.7591	
σ		1.5364	1.4635	1.0%	2.0%	0.9131	0.9659	0.8438	0.0008	0.2755	
%RSD		1.5221	1.4003	0.9	2.0	1.8825	1.9030	1.7004	10.1186	1.3945	

CCV3 6/18/2014 8:46:23 AM

User Pre-dilution: 1.000

O2 6/18/14

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:46:23	21.7532	22.0556	22.5073	21.9543	108.2%	108.3%	108.7%	22.2496	22.2307	22.4424
2	08:46:49	22.1568	22.8244	22.3454	22.6466	107.4%	108.1%	108.2%	22.4086	22.4439	22.9703
3	08:47:16	24.2837	24.9637	24.9489	24.8223	102.5%	103.8%	103.7%	24.7660	24.7657	25.0042
x		22.7312	23.2813	23.2672	23.1411	106.1%	106.7%	106.9%	23.1414	23.1468	23.4723
σ		1.3596	1.5069	1.4587	1.4966	3.1%	2.5%	2.7%	1.4092	1.4061	1.3527
%RSD		5.9810	6.4727	6.2691	6.4672	2.9	2.4	2.6	6.0896	6.0748	5.7629
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:46:23	22.4056	22.3235	105.2%	102.3%	22.2824	22.3907	22.2861	21.5200	21.5666	
2	08:46:49	22.8076	22.8973	105.5%	105.3%	22.3224	22.4568	22.3496	21.8092	21.5511	
3	08:47:16	24.9422	25.0314	101.4%	102.2%	23.8170	23.8465	23.8099	23.4449	23.4265	
x		23.3851	23.4174	104.0%	103.2%	22.8072	22.8980	22.8152	22.2580	22.1814	
σ		1.3634	1.4269	2.3%	1.8%	0.8747	0.8221	0.8620	1.0380	1.0783	
%RSD		5.8301	6.0934	2.2	1.7	3.8350	3.5903	3.7783	4.6635	4.8614	

CCV3 6/18/2014 8:53:35 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:53:35	25.4509	25.3177	24.7144	25.2041	96.6%	97.2%	96.8%	25.4595	25.3865	25.4105
2	08:54:01	24.8520	24.9240	24.7559	25.1009	99.5%	99.5%	100.1%	25.0532	24.9274	25.2077
3	08:54:28	24.6980	25.1077	24.6683	24.7909	100.6%	100.8%	101.4%	24.9799	25.1160	25.1025
x		25.0003	25.1164	24.7129	25.0320	98.9%	99.2%	99.4%	25.1642	25.1433	25.2403
σ		0.3977	0.1970	0.0438	0.2150	2.1%	1.8%	2.4%	0.2583	0.2307	0.1566
%RSD		1.5910	0.7843	0.1772	0.8591	2.1	1.8	2.4	1.0266	0.9177	0.6203
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:53:35	25.5756	25.6041	95.2%	96.6%	24.4998	24.4991	24.4360	23.8175	24.0588	
2	08:54:01	25.2850	25.2573	98.4%	98.9%	24.3358	24.2336	24.3787	24.7725	24.0899	
3	08:54:28	25.1162	25.1826	99.9%	100.9%	24.3707	23.9816	24.1732	24.3772	24.1578	
x		25.3256	25.3480	97.8%	98.8%	24.4021	24.2381	24.3293	24.3224	24.1021	
σ		0.2324	0.2249	2.4%	2.1%	0.0864	0.2588	0.1382	0.4799	0.0506	
%RSD		0.9177	0.8872	2.4	2.2	0.3541	1.0677	0.5681	1.9730	0.2100	

CCB3 6/18/2014 9:00:44 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:00:44	0.0400	0.0259	0.0147	0.0016	96.6%	96.7%	96.9%	0.0228	0.0231	0.0014
2	09:01:10	0.0309	0.0263	0.0026	-0.0090	100.0%	100.3%	100.5%	0.0267	0.0248	0.0032
3	09:01:37	0.0337	0.0328	0.0095	0.0152	100.9%	101.9%	102.1%	0.0253	0.0292	0.0129
x		0.0349	0.0283	0.0089	0.0026	99.2%	99.6%	99.9%	0.0249	0.0257	0.0058
σ		0.0046	0.0039	0.0060	0.0122	2.3%	2.7%	2.7%	0.0019	0.0031	0.0062
%RSD		13.3248	13.7472	67.3851	463.9432	2.3	2.7	2.7	7.7928	12.0820	106.7247
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:00:44	0.0061	0.0021	96.2%	100.6%	0.0003	0.0034	0.0020	-0.0060	0.0026	
2	09:01:10	0.0072	0.0075	98.8%	102.6%	0.0038	0.0083	0.0058	-0.0040	0.0064	
3	09:01:37	0.0118	0.0122	101.2%	104.5%	0.0067	0.0102	0.0091	-0.0025	0.0091	
x		0.0084	0.0073	98.7%	102.5%	0.0036	0.0073	0.0056	-0.0042	0.0060	
σ		0.0030	0.0050	2.5%	2.0%	0.0032	0.0035	0.0035	0.0017	0.0033	
%RSD		36.0818	69.2500	2.5	1.9	88.8466	48.3532	62.2667	41.4611	54.1823	

K1405721-002 6/18/2014 9:03:22 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:03:22	0.1675	0.3437	0.3593	0.1988	90.6%	87.1%	92.1%	0.0549	0.0561	0.7383
2	09:03:48	0.1878	0.3312	0.3457	0.2188	90.7%	87.2%	92.3%	0.0496	0.0608	0.7510
3	09:04:15	0.1449	0.3145	0.2398	0.1754	97.9%	95.2%	100.6%	0.0534	0.0529	0.6793
x		0.1667	0.3298	0.3149	0.1977	93.0%	89.9%	95.0%	0.0526	0.0566	0.7229
σ		0.0215	0.0147	0.0654	0.0217	4.2%	4.7%	4.9%	0.0027	0.0039	0.0382
%RSD		12.8714	4.4480	20.7703	10.9845	4.5	5.2	5.1	5.1529	6.9553	5.2903
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:03:22	0.7137	0.7001	92.6%	101.9%	0.0039	0.0049	0.0043	-0.0063	0.0024	
2	09:03:48	0.7562	0.7274	92.6%	99.6%	0.0075	0.0083	0.0078	-0.0035	0.0059	
3	09:04:15	0.6662	0.6318	102.0%	102.8%	0.0094	0.0110	0.0102	-0.0019	0.0075	
x		0.7120	0.6865	95.8%	101.4%	0.0070	0.0081	0.0074	-0.0039	0.0053	
σ		0.0450	0.0492	5.4%	1.6%	0.0028	0.0031	0.0029	0.0022	0.0026	
%RSD		6.3224	7.1704	5.7	1.6	40.0664	38.4903	39.5479	55.9617	50.0253	

K1405721-003 6/18/2014 9:06:29 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:06:29	0.2112	0.8652	0.7451	0.6852	90.9%	87.9%	93.6%	0.0478	0.0508	0.6062
2	09:06:55	0.2098	0.8582	0.8105	0.7295	94.0%	90.4%	96.0%	0.0525	0.0530	0.6255
3	09:07:21	0.1968	0.9137	0.6952	0.6408	93.7%	92.7%	97.6%	0.0576	0.0531	0.5701
x		0.2059	0.8790	0.7503	0.6852	92.9%	90.4%	95.7%	0.0526	0.0523	0.6006
σ		0.0079	0.0302	0.0578	0.0443	1.7%	2.4%	2.0%	0.0049	0.0013	0.0281
%RSD		3.8508	3.4393	7.7090	6.4715	1.8	2.7	2.1	9.3138	2.5134	4.6821
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:06:29	0.6002	0.5778	92.8%	94.6%	0.0015	0.0029	0.0022	-0.0067	0.0017	
2	09:06:55	0.5822	0.5870	96.0%	96.5%	0.0027	0.0042	0.0030	-0.0058	0.0030	
3	09:07:21	0.5551	0.5815	97.3%	98.1%	0.0021	0.0037	0.0034	-0.0047	0.0032	
x		0.5792	0.5821	95.4%	96.4%	0.0021	0.0036	0.0028	-0.0057	0.0026	
σ		0.0227	0.0046	2.3%	1.7%	0.0006	0.0006	0.0006	0.0010	0.0008	
%RSD		3.9192	0.7902	2.4	1.8	28.9710	17.8225	20.8547	18.1161	29.8686	

K1405721-004 6/18/2014 9:09:33 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:09:33	0.1875	0.3805	0.2506	0.1940	92.6%	90.8%	95.6%	0.0437	0.0480	0.6897
2	09:09:59	0.1593	0.3831	0.3295	0.1958	95.0%	92.2%	97.6%	0.0521	0.0491	0.6932
3	09:10:25	0.1669	0.3673	0.2563	0.1958	95.6%	93.6%	98.3%	0.0494	0.0470	0.6920
x		0.1712	0.3770	0.2788	0.1952	94.4%	92.2%	97.2%	0.0484	0.0480	0.6916
σ		0.0146	0.0085	0.0440	0.0011	1.5%	1.4%	1.4%	0.0043	0.0010	0.0017
%RSD		8.5218	2.2473	15.7788	0.5487	1.6	1.5	1.5	8.7831	2.1559	0.2527
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:09:33	0.6997	0.7030	94.2%	94.4%	0.0063	0.0070	0.0062	-0.0085	0.0018	
2	09:09:59	0.7179	0.6891	96.9%	95.9%	0.0025	0.0072	0.0055	-0.0062	0.0019	
3	09:10:25	0.6958	0.6830	97.7%	96.9%	0.0060	0.0060	0.0059	-0.0047	0.0023	
x		0.7045	0.6917	96.3%	95.7%	0.0050	0.0067	0.0059	-0.0065	0.0020	
σ		0.0118	0.0102	1.8%	1.3%	0.0021	0.0007	0.0004	0.0019	0.0003	
%RSD		1.6763	1.4798	1.9	1.3	42.9947	9.9108	6.0961	29.2762	12.8346	

K1405721-005 6/18/2014 9:12:36 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:12:36	0.3019	0.3949	0.2367	0.1309	92.9%	89.9%	95.0%	0.0447	0.0441	0.5687
2	09:13:03	0.3189	0.3820	0.2902	0.1291	94.4%	92.6%	97.4%	0.0505	0.0389	0.5782
3	09:13:29	0.2933	0.3835	0.2599	0.1766	94.6%	93.2%	99.2%	0.0439	0.0436	0.5568
x		0.3047	0.3868	0.2622	0.1455	94.0%	91.9%	97.2%	0.0464	0.0422	0.5679
σ		0.0131	0.0071	0.0268	0.0269	0.9%	1.8%	2.1%	0.0036	0.0029	0.0107
%RSD		4.2853	1.8345	10.2324	18.4908	1.0	1.9	2.2	7.7310	6.8183	1.8859
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:12:36	0.5670	0.6035	94.6%	92.8%	0.0027	0.0020	0.0024	-0.0063	0.0013	
2	09:13:03	0.5960	0.5889	96.2%	95.7%	0.0031	0.0041	0.0026	-0.0056	0.0015	
3	09:13:29	0.5772	0.5741	97.6%	96.4%	0.0016	0.0052	0.0027	-0.0057	0.0020	
x		0.5801	0.5888	96.1%	95.0%	0.0025	0.0038	0.0026	-0.0059	0.0016	
σ		0.0147	0.0147	1.5%	1.9%	0.0008	0.0016	0.0002	0.0004	0.0004	
%RSD		2.5412	2.4918	1.6	2.0	31.4038	42.5559	7.3190	6.8907	23.6677	

K1405721-006 6/18/2014 9:15:41 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:15:41	0.2053	19.7388	17.7320	18.8730	93.1%	90.6%	96.0%	0.0506	0.0449	0.7489
2	09:16:07	0.1737	19.5598	17.6569	18.7058	95.1%	92.9%	99.1%	0.0532	0.0477	0.7322
3	09:16:33	0.1753	19.1755	17.6237	18.6916	96.6%	93.7%	99.5%	0.0575	0.0474	0.7372
x		0.1848	19.4914	17.6709	18.7568	94.9%	92.4%	98.2%	0.0537	0.0467	0.7394
σ		0.0178	0.2878	0.0555	0.1009	1.8%	1.6%	1.9%	0.0035	0.0016	0.0085
%RSD		9.6356	1.4768	0.3139	0.5380	1.9	1.7	1.9	6.4909	3.3639	1.1545
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:15:41	0.7146	0.7353	94.1%	92.9%	0.0059	0.0065	0.0066	-0.0069	0.0009	
2	09:16:07	0.7500	0.7301	96.2%	94.6%	0.0057	0.0077	0.0066	-0.0056	0.0017	
3	09:16:33	0.7323	0.7280	97.8%	95.7%	0.0068	0.0048	0.0070	-0.0048	0.0015	
x		0.7323	0.7311	96.0%	94.4%	0.0061	0.0063	0.0067	-0.0058	0.0013	
σ		0.0177	0.0037	1.8%	1.4%	0.0006	0.0015	0.0002	0.0010	0.0004	
%RSD		2.4172	0.5123	1.9	1.4	9.7612	23.1071	3.5050	17.9603	29.2203	

K1405941-001 6/18/2014 9:18:45 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:18:45	0.3196	1.0097	1.0021	0.8952	93.1%	90.6%	96.2%	0.0394	0.0396	3.3222
2	09:19:11	0.3011	0.9916	0.8805	0.8689	94.5%	92.5%	97.2%	0.0397	0.0376	3.4397
3	09:19:37	0.2906	0.9640	0.9967	0.8615	95.7%	94.0%	99.7%	0.0398	0.0367	3.3512
x		0.3038	0.9884	0.9598	0.8752	94.4%	92.4%	97.7%	0.0396	0.0380	3.3710
σ		0.0147	0.0230	0.0687	0.0177	1.3%	1.7%	1.8%	0.0002	0.0015	0.0613
%RSD		4.8364	2.3262	7.1565	2.0252	1.4	1.8	1.8	0.4343	3.9012	1.8171
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:18:45	3.2641	3.3272	95.1%	95.4%	0.0172	0.0123	0.0138	-0.0065	0.1099	
2	09:19:11	3.3268	3.3219	97.6%	97.8%	0.0138	0.0142	0.0148	-0.0063	0.1093	
3	09:19:37	3.3678	3.2836	99.0%	98.5%	0.0138	0.0159	0.0138	-0.0051	0.1083	
x		3.3196	3.3109	97.2%	97.3%	0.0149	0.0141	0.0141	-0.0060	0.1092	
σ		0.0522	0.0238	2.0%	1.6%	0.0020	0.0018	0.0005	0.0008	0.0008	
%RSD		1.5737	0.7191	2.1	1.7	13.1408	12.7363	3.7171	12.6247	0.7506	

K1405572-MB 6/18/2014 9:21:57 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:21:57	0.0816	0.0828	0.0248	0.0236	107.3%	109.4%	110.0%	0.0040	0.0042	-0.0039
2	09:22:23	0.0716	0.0808	0.0348	0.0056	108.2%	110.8%	111.2%	0.0033	0.0037	-0.0007
3	09:22:49	0.0804	0.0704	0.0049	0.0090	108.8%	111.3%	110.7%	0.0054	0.0037	-0.0040
x		0.0778	0.0780	0.0215	0.0127	108.1%	110.5%	110.6%	0.0042	0.0039	-0.0029
σ		0.0054	0.0067	0.0152	0.0095	0.7%	1.0%	0.6%	0.0011	0.0003	0.0019
%RSD		6.9624	8.5565	70.7662	75.0948	0.7	0.9	0.6	26.0075	7.3893	65.9474
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:21:57	0.0031	0.0006	103.3%	104.2%	-0.0027	0.0004	-0.0012	-0.0087	0.0002	
2	09:22:23	0.0014	0.0004	105.7%	107.5%	-0.0004	-0.0002	-0.0005	-0.0073	0.0003	
3	09:22:49	-0.0001	0.0025	106.3%	108.2%	-0.0027	-0.0006	-0.0012	-0.0071	0.0003	
x		0.0015	0.0012	105.1%	106.6%	-0.0019	-0.0001	-0.0010	-0.0077	0.0002	
σ		0.0016	0.0011	1.6%	2.2%	0.0013	0.0005	0.0004	0.0009	0.0001	
%RSD		107.8557	94.1665	1.5	2.0	68.5783	522.6319	43.3942	11.4536	32.3134	

LCSW 6/18/2014 9:24:39 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:24:39	9.2010	23.8095	27.4542	26.9812	109.3%	111.4%	112.0%	48.0516	47.5515	96.3596
2	09:25:06	9.6977	25.1045	28.9380	28.1026	106.7%	109.4%	110.2%	50.7912	50.3252	100.5619
3	09:25:32	9.6155	25.3261	28.6544	28.3380	107.2%	110.2%	110.4%	50.3936	49.5202	98.7946
x		9.5047	24.7467	28.3489	27.8073	107.7%	110.4%	110.9%	49.7455	49.1323	98.5721
σ		0.2662	0.8192	0.7877	0.7250	1.4%	1.0%	1.0%	1.4803	1.4270	2.1100
%RSD		2.8009	3.3102	2.7784	2.6073	1.3	0.9	0.9	2.9758	2.9043	2.1405
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:24:39	96.6387	99.6612	107.9%	109.5%	45.4450	47.7079	46.6462	-0.0074	18.5833	
2	09:25:06	100.2585	103.7318	106.7%	110.2%	46.7721	48.6548	47.7241	-0.0072	19.1414	
3	09:25:32	99.4364	103.7999	108.0%	111.7%	46.2693	48.3382	47.2835	-0.0085	18.8483	
x		98.7778	102.3976	107.6%	110.5%	46.1621	48.2336	47.2179	-0.0077	18.8577	
σ		1.8976	2.3701	0.8%	1.1%	0.6700	0.4821	0.5419	0.0007	0.2792	
%RSD		1.9211	2.3146	0.7	1.0	1.4514	0.9994	1.1477	8.9336	1.4805	

K1405572-001 6/18/2014 9:30:38 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:30:38	0.1896	0.1902	0.2042	0.0134	89.9%	88.5%	93.6%	0.0419	0.0352	0.4355
2	09:31:05	0.1707	0.1793	0.1287	0.0332	93.5%	91.8%	97.3%	0.0416	0.0379	0.4264
3	09:31:31	0.1918	0.1894	0.1148	0.0225	95.8%	92.4%	98.9%	0.0375	0.0403	0.4270
x		0.1840	0.1863	0.1492	0.0230	93.1%	90.9%	96.6%	0.0403	0.0378	0.4296
σ		0.0116	0.0061	0.0481	0.0099	3.0%	2.1%	2.7%	0.0024	0.0025	0.0051
%RSD		6.3073	3.2695	32.2333	43.0343	3.2	2.3	2.8	6.0285	6.7256	1.1847
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:30:38	0.4633	0.4385	94.2%	99.7%	0.0013	0.0022	0.0016	-0.0093	0.1450	
2	09:31:05	0.4585	0.4391	97.0%	100.2%	0.0050	0.0035	0.0046	-0.0088	0.1484	
3	09:31:31	0.4563	0.4542	98.9%	100.6%	0.0069	0.0080	0.0066	-0.0078	0.1496	
x		0.4594	0.4439	96.7%	100.2%	0.0044	0.0046	0.0043	-0.0087	0.1477	
σ		0.0036	0.0089	2.4%	0.5%	0.0029	0.0030	0.0025	0.0007	0.0024	
%RSD		0.7822	2.0015	2.5	0.5	64.8198	66.5896	58.6370	8.5730	1.6179	

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:33:42	0.1793	0.2032	0.1772	0.0757	95.7%	93.8%	99.0%	0.0254	0.0217	0.7740
2	09:34:09	0.1875	0.2011	0.1395	0.0769	97.5%	96.2%	101.9%	0.0262	0.0302	0.7236
3	09:34:36	0.1773	0.1887	0.2018	0.0726	98.4%	97.5%	102.3%	0.0286	0.0256	0.7434
x		0.1814	0.1977	0.1728	0.0751	97.2%	95.8%	101.1%	0.0267	0.0258	0.7470
σ		0.0054	0.0079	0.0314	0.0022	1.3%	1.9%	1.8%	0.0016	0.0042	0.0254
%RSD		2.9882	3.9802	18.1447	2.9440	1.4	2.0	1.8	6.0700	16.4392	3.4026
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:33:42	0.7483	0.7237	97.0%	99.9%	0.0084	0.0088	0.0084	-0.0075	0.1171	
2	09:34:09	0.7327	0.7146	100.2%	100.8%	0.0113	0.0145	0.0116	-0.0070	0.1146	
3	09:34:36	0.7174	0.7408	102.4%	102.2%	0.0098	0.0107	0.0116	-0.0056	0.1174	
x		0.7328	0.7264	99.9%	101.0%	0.0099	0.0113	0.0106	-0.0067	0.1163	
σ		0.0154	0.0133	2.7%	1.1%	0.0014	0.0029	0.0018	0.0010	0.0016	
%RSD		2.1052	1.8322	2.7	1.1	14.6864	25.7351	17.3292	14.7132	1.3378	

CCV4 6/18/2014 9:36:43 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:36:43	24.6053	24.7273	25.1899	24.8891	110.3%	112.3%	112.4%	24.6898	24.5931	25.4545
2	09:37:09	24.3614	24.5352	24.5523	24.5803	111.3%	113.0%	114.1%	24.6390	24.4510	25.1140
3	09:37:35	25.1192	25.1544	25.2191	25.6336	109.6%	112.2%	111.9%	25.7047	25.2677	25.9595
x		24.6953	24.8056	24.9871	25.0343	110.4%	112.5%	112.8%	25.0112	24.7706	25.5093
σ		0.3868	0.3170	0.3768	0.5415	0.9%	0.4%	1.1%	0.6012	0.4363	0.4254
%RSD		1.5663	1.2778	1.5081	2.1629	0.8	0.4	1.0	2.4035	1.7613	1.6676
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:36:43	25.3767	25.5183	106.1%	107.2%	24.1788	24.3645	24.1808	23.3526	23.6216	
2	09:37:09	25.0127	25.0957	108.6%	109.7%	23.8749	24.1250	24.0201	23.7487	23.4662	
3	09:37:35	25.5787	25.7807	106.9%	108.1%	24.6486	24.5045	24.5116	24.4354	24.0688	
x		25.3227	25.4649	107.2%	108.3%	24.2341	24.3313	24.2375	23.8456	23.7189	
σ		0.2868	0.3456	1.3%	1.3%	0.3898	0.1919	0.2506	0.5478	0.3129	
%RSD		1.1327	1.3571	1.2	1.2	1.6085	0.7889	1.0340	2.2975	1.3191	

CCB4 6/18/2014 9:43:42 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:43:42	0.0624	0.0399	0.0135	0.0187	100.9%	102.5%	102.4%	0.0217	0.0221	0.0016
2	09:44:09	0.0388	0.0552	0.0149	0.0187	103.0%	105.0%	105.7%	0.0258	0.0302	0.0158
3	09:44:35	0.0377	0.0263	0.0432	0.0251	104.8%	106.9%	106.8%	0.0338	0.0334	0.0141
x		0.0463	0.0405	0.0238	0.0208	102.9%	104.8%	105.0%	0.0271	0.0286	0.0105
σ		0.0140	0.0145	0.0168	0.0036	1.9%	2.2%	2.3%	0.0062	0.0058	0.0078
%RSD		30.1300	35.7116	70.3115	17.5006	1.9	2.1	2.2	22.7337	20.3204	74.1014
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:43:42	0.0042	0.0055	98.7%	102.2%	0.0022	0.0067	0.0036	-0.0049	0.0034	
2	09:44:09	0.0097	0.0163	102.0%	105.8%	0.0123	0.0120	0.0127	-0.0024	0.0105	
3	09:44:35	0.0157	0.0188	103.6%	108.0%	0.0163	0.0179	0.0165	-0.0023	0.0139	
x		0.0099	0.0135	101.4%	105.3%	0.0103	0.0122	0.0109	-0.0032	0.0093	
σ		0.0057	0.0071	2.5%	3.0%	0.0073	0.0056	0.0066	0.0015	0.0054	
%RSD		58.0899	52.4251	2.5	2.8	70.7874	46.1115	60.6742	46.1301	58.3471	

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:49:31	0.2468	0.5688	0.5282	0.5052	97.7%	99.6%	99.3%	0.0663	0.0602	0.0504
2	09:49:57	0.2339	0.5264	0.4165	0.4921	101.2%	102.2%	103.0%	0.0591	0.0591	0.0505
3	09:50:23	0.2503	0.5309	0.4635	0.5069	101.9%	104.2%	105.0%	0.0640	0.0700	0.0403
x		0.2437	0.5420	0.4694	0.5014	100.3%	102.0%	102.4%	0.0631	0.0631	0.0471
σ		0.0086	0.0233	0.0561	0.0081	2.2%	2.3%	2.9%	0.0037	0.0060	0.0058
%RSD		3.5418	4.2924	11.9473	1.6106	2.2	2.2	2.8	5.8312	9.5371	12.3688
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:49:31	0.0542	0.0551	98.5%	102.7%	0.0192	0.0207	0.0213	-0.0083	0.0205	
2	09:49:57	0.0569	0.0602	101.5%	105.3%	0.0244	0.0264	0.0252	-0.0060	0.0223	
3	09:50:23	0.0589	0.0610	102.8%	107.0%	0.0223	0.0249	0.0237	-0.0061	0.0217	
x		0.0566	0.0588	100.9%	105.0%	0.0220	0.0240	0.0234	-0.0068	0.0215	
σ		0.0024	0.0032	2.2%	2.2%	0.0026	0.0029	0.0020	0.0013	0.0009	
%RSD		4.2117	5.4240	2.2	2.1	11.8657	12.2169	8.3778	18.8040	4.3512	

K1405818-002 6/18/2014 9:52:35 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:52:35	0.2912	0.1970	0.2412	0.1621	92.9%	91.9%	95.9%	0.0739	0.0710	2.6578
2	09:53:02	0.2723	0.1802	0.3104	0.1364	95.5%	94.3%	99.8%	0.0743	0.0757	2.7480
3	09:53:28	0.2732	0.1969	0.2358	0.1616	96.7%	96.0%	101.4%	0.0773	0.0702	2.6863
x		0.2789	0.1914	0.2625	0.1534	95.0%	94.1%	99.0%	0.0752	0.0723	2.6974
σ		0.0107	0.0097	0.0416	0.0147	1.9%	2.1%	2.8%	0.0019	0.0030	0.0461
%RSD		3.8349	5.0614	15.8519	9.5767	2.1	2.2	2.8	2.4731	4.0918	1.7091
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:52:35	2.7405	2.6943	96.7%	107.8%	0.0138	0.0156	0.0146	-0.0089	0.2112	
2	09:53:02	2.6291	2.6395	99.9%	107.6%	0.0137	0.0166	0.0160	-0.0074	0.2145	
3	09:53:28	2.7168	2.6339	102.5%	108.7%	0.0160	0.0195	0.0172	-0.0074	0.2108	
x		2.6955	2.6559	99.7%	108.1%	0.0145	0.0172	0.0160	-0.0079	0.2122	
σ		0.0587	0.0333	2.9%	0.6%	0.0013	0.0020	0.0013	0.0009	0.0020	
%RSD		2.1766	1.2556	2.9	0.5	8.9679	11.7471	8.3011	11.2189	0.9486	

K1405818-002D 6/18/2014 9:55:41 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:55:41	0.2025	0.3818	0.5176	0.3075	94.3%	93.3%	97.9%	0.0738	0.0842	2.9375
2	09:56:07	0.1887	0.3535	0.3438	0.3431	96.4%	95.5%	100.2%	0.0772	0.0809	2.8665
3	09:56:34	0.2071	0.3651	0.3814	0.3442	97.9%	96.8%	102.3%	0.0739	0.0795	2.8647
x		0.1994	0.3668	0.4143	0.3316	96.2%	95.2%	100.1%	0.0749	0.0815	2.8896
σ		0.0096	0.0142	0.0914	0.0209	1.8%	1.8%	2.2%	0.0020	0.0024	0.0415
%RSD		4.7946	3.8848	22.0702	6.2965	1.9	1.9	2.2	2.6028	2.9114	1.4366
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:55:41	2.8448	2.8538	97.7%	102.8%	0.0194	0.0192	0.0191	-0.0082	0.2313	
2	09:56:07	2.8534	2.8134	100.7%	103.2%	0.0216	0.0195	0.0208	-0.0064	0.2376	
3	09:56:34	2.8419	2.8110	101.7%	104.7%	0.0166	0.0187	0.0179	-0.0060	0.2357	
x		2.8467	2.8260	100.0%	103.6%	0.0192	0.0192	0.0193	-0.0069	0.2348	
σ		0.0060	0.0240	2.1%	1.0%	0.0025	0.0004	0.0015	0.0011	0.0032	
%RSD		0.2096	0.8507	2.1	1.0	12.8742	2.1922	7.6733	16.7155	1.3612	

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:58:47	10.5621	23.3809	26.4210	25.9804	96.1%	95.0%	99.9%	52.1754	51.6970	108.2961
2	09:59:13	10.5458	23.1971	26.1610	25.6371	97.8%	97.2%	102.3%	50.8230	50.5954	107.2034
3	09:59:39	10.5528	23.1949	26.6267	25.6860	98.9%	98.4%	104.0%	50.6769	50.9979	106.8960
x		10.5536	23.2577	26.4029	25.7679	97.6%	96.9%	102.1%	51.2251	51.0968	107.4652
σ		0.0082	0.1067	0.2334	0.1857	1.4%	1.7%	2.0%	0.8262	0.5574	0.7358
%RSD		0.0775	0.4589	0.8838	0.7207	1.4	1.8	2.0	1.6129	1.0909	0.6847
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:58:47	108.0963	112.0427	100.0%	103.5%	42.2747	44.2801	43.3409	-0.0075	19.0893	
2	09:59:13	107.0269	110.6793	102.7%	105.5%	41.9898	43.6843	42.8024	-0.0079	19.0652	
3	09:59:39	106.1825	110.0553	102.6%	106.1%	42.2833	44.6397	43.5933	-0.0083	19.0749	
x		107.1019	110.9258	101.8%	105.0%	42.1826	44.2014	43.2455	-0.0079	19.0765	
σ		0.9591	1.0163	1.5%	1.3%	0.1671	0.4826	0.4040	0.0004	0.0121	
%RSD		0.8955	0.9162	1.5	1.3	0.3960	1.0918	0.9341	5.0406	0.0637	

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:02:20	10.8936	23.7117	27.2431	26.5052	95.6%	94.1%	98.7%	51.5741	50.4703	109.9822
2	10:02:46	10.7714	23.7424	26.8947	26.5810	97.2%	97.2%	102.3%	50.2471	49.6520	108.3563
3	10:03:12	12.5526	27.5195	31.2746	30.5773	90.0%	90.0%	94.2%	58.3589	57.9006	126.1479
x		11.4059	24.9912	28.4708	27.8878	94.2%	93.8%	98.4%	53.3934	52.6743	114.8288
σ		0.9950	2.1896	2.4344	2.3295	3.8%	3.6%	4.1%	4.3512	4.5445	9.8363
%RSD		8.7234	8.7616	8.5505	8.3530	4.0	3.9	4.1	8.1493	8.6276	8.5660
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	10:02:20	109.5048	113.6658	99.7%	103.4%	41.6291	43.6785	42.7998	-0.0078	18.8860	
2	10:02:46	109.4039	113.2147	101.7%	105.9%	41.8928	43.7969	42.6973	-0.0069	18.5575	
3	10:03:12	126.3656	132.1297	93.7%	96.9%	48.1703	50.3690	49.2448	-0.0055	22.2326	
x		115.0914	119.6701	98.4%	102.1%	43.8974	45.9481	44.9140	-0.0067	19.8920	
σ		9.7639	10.7927	4.1%	4.6%	3.7028	3.8291	3.7510	0.0011	2.0336	
%RSD		8.4836	9.0187	4.2	4.5	8.4351	8.3335	8.3515	16.7634	10.2234	

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:05:54	0.2540	0.1947	0.2180	0.1502	95.9%	94.5%	99.3%	0.0799	0.0840	2.8912
2	10:06:20	0.2322	0.1962	0.3404	0.1375	98.0%	96.8%	101.5%	0.0951	0.0998	2.7715
3	10:06:47	0.2158	0.1925	0.2138	0.1401	98.4%	97.1%	103.3%	0.1100	0.1114	2.8660
x		0.2340	0.1945	0.2574	0.1426	97.4%	96.1%	101.3%	0.0950	0.0984	2.8429
σ		0.0191	0.0019	0.0719	0.0067	1.4%	1.5%	2.0%	0.0150	0.0138	0.0631
%RSD		8.1720	0.9719	27.9301	4.7024	1.4	1.5	2.0	15.8189	13.9783	2.2188
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	10:05:54	2.8529	2.8171	98.1%	99.1%	0.0291	0.0351	0.0310	-0.0069	0.1821	
2	10:06:20	2.8123	2.8317	100.8%	101.5%	0.0393	0.0462	0.0415	-0.0060	0.1864	
3	10:06:47	2.8308	2.8287	102.3%	101.8%	0.0501	0.0514	0.0529	-0.0061	0.1907	
x		2.8320	2.8258	100.4%	100.8%	0.0395	0.0442	0.0418	-0.0063	0.1864	
σ		0.0203	0.0077	2.1%	1.5%	0.0105	0.0083	0.0109	0.0005	0.0043	
%RSD		0.7177	0.2724	2.1	1.5	26.5836	18.8777	26.1690	8.3758	2.2927	

K1405818-004 6/18/2014 10:08:59 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:08:59	0.2285	0.1581	0.2150	0.1279	96.8%	95.5%	101.0%	0.0715	0.0747	2.6127
2	10:09:25	0.2094	0.1851	0.2587	0.0986	98.2%	97.2%	102.5%	0.0678	0.0709	2.6336
3	10:09:52	0.2229	0.1952	0.2357	0.1332	99.0%	98.4%	103.8%	0.0773	0.0698	2.6839
x		0.2203	0.1794	0.2365	0.1199	98.0%	97.0%	102.4%	0.0722	0.0718	2.6434
σ		0.0098	0.0192	0.0218	0.0186	1.2%	1.5%	1.4%	0.0048	0.0026	0.0366
%RSD		4.4655	10.6891	9.2261	15.5220	1.2	1.5	1.4	6.6068	3.5900	1.3860
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	10:08:59	2.6740	2.6270	99.3%	100.0%	0.0079	0.0085	0.0080	-0.0077	0.1954	
2	10:09:25	2.6547	2.6383	102.2%	101.7%	0.0119	0.0126	0.0112	-0.0055	0.1917	
3	10:09:52	2.5708	2.6563	103.3%	103.1%	0.0102	0.0129	0.0128	-0.0049	0.1947	
x		2.6332	2.6405	101.6%	101.6%	0.0100	0.0114	0.0107	-0.0060	0.1939	
σ		0.0549	0.0148	2.1%	1.6%	0.0020	0.0025	0.0024	0.0015	0.0020	
%RSD		2.0849	0.5599	2.0	1.6	19.6766	21.9030	22.8367	24.5889	1.0277	

K1405461-MB 6/18/2014 10:11:56 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:11:56	0.1107	0.0534	0.0701	0.0057	111.3%	114.4%	113.9%	0.0028	0.0032	-0.0003
2	10:12:23	0.0984	0.0525	0.0296	0.0124	112.4%	115.6%	115.6%	0.0040	0.0067	0.0054
3	10:12:49	0.1060	0.0610	0.0530	0.0176	113.3%	115.6%	115.9%	0.0073	0.0049	0.0021
x		0.1051	0.0556	0.0509	0.0119	112.3%	115.2%	115.1%	0.0047	0.0049	0.0024
σ		0.0062	0.0047	0.0203	0.0060	1.0%	0.7%	1.0%	0.0023	0.0018	0.0028
%RSD		5.8848	8.3646	39.8904	50.4086	0.9	0.6	0.9	49.3416	36.3319	117.5659
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	10:11:56	0.0005	0.0031	107.7%	106.7%	-0.0009	0.0014	0.0000	-0.0080	0.0016	
2	10:12:23	0.0036	0.0045	109.3%	109.7%	0.0003	0.0011	0.0002	-0.0080	0.0018	
3	10:12:49	0.0086	0.0064	110.5%	111.5%	-0.0020	0.0037	0.0008	-0.0079	0.0024	
x		0.0042	0.0047	109.2%	109.3%	-0.0009	0.0021	0.0003	-0.0080	0.0019	
σ		0.0041	0.0016	1.4%	2.4%	0.0011	0.0014	0.0004	0.0001	0.0004	
%RSD		97.0910	34.8195	1.3	2.2	127.8076	69.1120	128.9932	1.1877	20.9094	

LCSW 6/18/2014 10:14:36 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:14:36	9.8869	25.7396	29.8501	28.1067	110.6%	113.9%	115.0%	51.0874	51.2265	101.0495
2	10:15:02	9.8950	25.6105	29.2681	28.8338	111.7%	114.5%	116.1%	51.2122	51.0092	102.0826
3	10:15:29	9.8066	25.5956	29.2639	28.7573	111.8%	114.7%	116.5%	52.0749	51.2684	100.9063
x		9.8628	25.6486	29.4607	28.5660	111.4%	114.4%	115.8%	51.4582	51.1680	101.3461
σ		0.0489	0.0792	0.3372	0.3996	0.7%	0.5%	0.8%	0.5378	0.1391	0.6418
%RSD		0.4954	0.3088	1.1446	1.3988	0.6	0.4	0.7	1.0451	0.2719	0.6333
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	10:14:36	100.7730	104.9499	111.1%	112.1%	47.9225	50.1663	49.0341	19.2008	19.5140	
2	10:15:02	101.1612	105.3891	111.9%	113.3%	47.8487	49.9486	49.1553	19.5035	19.4642	
3	10:15:29	100.9731	105.2810	111.5%	113.7%	47.9093	50.3090	49.3203	19.5165	19.5083	
x		100.9691	105.2067	111.5%	113.0%	47.8935	50.1413	49.1699	19.4069	19.4955	
σ		0.1941	0.2288	0.4%	0.8%	0.0393	0.1815	0.1436	0.1786	0.0272	
%RSD		0.1922	0.2175	0.4	0.7	0.0821	0.3619	0.2921	0.9204	0.1397	

CCV5 6/18/2014 10:17:19 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:17:19	24.5027	24.7511	23.6929	24.7630	108.1%	111.6%	112.0%	24.7859	24.4052	25.0618
2	10:17:45	23.9289	24.5138	24.4980	24.6448	110.1%	112.5%	113.9%	24.4799	24.4890	24.6960
3	10:18:12	24.0836	24.3324	24.3416	24.6774	109.8%	113.4%	114.0%	24.3606	24.6512	24.8145
x		24.1718	24.5325	24.1775	24.6951	109.3%	112.5%	113.3%	24.5421	24.5151	24.8574
σ		0.2969	0.2100	0.4269	0.0610	1.1%	0.9%	1.1%	0.2193	0.1251	0.1866
%RSD		1.2282	0.8558	1.7656	0.2471	1.0	0.8	1.0	0.8938	0.5101	0.7507
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	10:17:19	24.7127	24.8947	107.7%	110.3%	23.9136	23.8006	23.8114	23.8267	23.4962	
2	10:17:45	24.7466	24.8683	109.4%	111.6%	23.8987	23.8985	23.9006	24.2470	23.6268	
3	10:18:12	24.6633	24.9536	110.3%	112.0%	23.8641	23.7809	23.7948	23.9216	23.4045	
x		24.7075	24.9055	109.1%	111.3%	23.8922	23.8266	23.8356	23.9985	23.5092	
σ		0.0419	0.0437	1.3%	0.9%	0.0254	0.0630	0.0569	0.2204	0.1117	
%RSD		0.1695	0.1753	1.2	0.8	0.1063	0.2643	0.2386	0.9186	0.4752	

CCBS 6/18/2014 10:24:42 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:24:42	0.0630	0.0330	0.0069	0.0333	99.8%	102.7%	103.1%	0.0206	0.0189	0.0021
2	10:25:09	0.0517	0.0387	0.0146	0.0151	103.3%	104.8%	105.9%	0.0319	0.0277	0.0178
3	10:25:35	0.0654	0.0487	0.0517	0.0166	104.1%	106.9%	107.7%	0.0322	0.0318	0.0173
x		0.0600	0.0401	0.0244	0.0217	102.4%	104.8%	105.5%	0.0282	0.0261	0.0124
σ		0.0073	0.0080	0.0240	0.0101	2.3%	2.1%	2.3%	0.0066	0.0065	0.0089
%RSD		12.1875	19.8126	98.2472	46.6657	2.3	2.0	2.2	23.3111	25.0745	71.7554
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	10:24:42	0.0053	0.0045	101.0%	104.8%	0.0010	0.0040	0.0025	-0.0072	0.0029	
2	10:25:09	0.0159	0.0189	103.5%	107.5%	0.0129	0.0185	0.0133	-0.0024	0.0098	
3	10:25:35	0.0232	0.0229	104.5%	108.7%	0.0165	0.0180	0.0169	-0.0019	0.0132	
x		0.0148	0.0155	103.0%	107.0%	0.0102	0.0135	0.0109	-0.0038	0.0086	
σ		0.0090	0.0097	1.8%	2.0%	0.0081	0.0082	0.0075	0.0029	0.0052	
%RSD		61.0195	62.4738	1.7	1.9	79.7319	61.0071	68.8931	76.0260	60.4115	

K1405461-012 6/18/2014 10:27:41 AM

User Pre-dilution: 1.000

Run	Time	52Cr	66Zn	67Zn	68Zn	71Ga	103Rh	115In	121Sb	123Sb	135Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:27:41	0.2168	0.2036	0.1382	0.0526	94.7%	93.5%	97.9%	0.0205	0.0234	0.2836
2	10:28:07	0.2277	0.2065	0.1274	0.0635	97.4%	97.1%	102.1%	0.0283	0.0246	0.2898
3	10:28:33	0.2362	0.2046	0.1034	0.0324	99.2%	97.7%	103.3%	0.0311	0.0320	0.2510
x		0.2269	0.2049	0.1230	0.0495	97.1%	96.1%	101.1%	0.0267	0.0267	0.2748
σ		0.0097	0.0015	0.0178	0.0158	2.2%	2.3%	2.8%	0.0055	0.0047	0.0209
%RSD		4.2788	0.7205	14.4779	31.9044	2.3	2.4	2.8	20.6009	17.4939	7.5935
Run	Time	137Ba	138Ba	175Lu	197Au	206Pb	207Pb	208Pb	232Th	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	10:27:41	0.2880	0.2836	96.8%	107.5%	0.0021	0.0025	0.0016	-0.0079	0.1135	
2	10:28:07	0.2887	0.2767	100.7%	107.4%	0.0041	0.0059	0.0049	-0.0047	0.1163	
3	10:28:33	0.2810	0.2842	101.7%	106.7%	0.0051	0.0098	0.0072	-0.0056	0.1163	
x		0.2859	0.2815	99.7%	107.2%	0.0037	0.0061	0.0045	-0.0060	0.1153	
σ		0.0043	0.0042	2.6%	0.4%	0.0015	0.0037	0.0029	0.0016	0.0016	
%RSD		1.4901	1.4769	2.6	0.4	40.6426	60.4594	62.7342	27.1806	1.3925	

Service Request # K1405818 (RPTM) _____
 Calibration _____ 061914EMS03 _____
 QC in calibration _ 061914EMS03 _____
 QC Service Request # K1405818 _____
 STARLIMS Batch # 398012 _____

ICP-MS 200.8 Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	___X___	___	___
2. ICV in control (+/- 10%)	___X___	___	___
3. CCV's in control (+/- 10%)	___X___	___	___
4. CCB's and/or ICB's below MRL	___X___	___	___
5. Method blank below MRL	___X___	___	___
6. LCS in control (+/-15%)	___X___	___	___
7. Spike within 70-130%, Duplicate within 20%	___X___	___	___
8. All analytes within instrument linear range	___X___	___	___
9. Adequate rinse out time allowed	___X___	___	___
10. Internal standards in control (60-125%)	___X___	___	___
11. Interferences checked	___X___	___	___
12. Se over MRL	___	___X___	___
13. CRA run (50-199%)	___X___	___	___
14. ICSA and ICSAB in control	___	___	___X___
15. Serial dilution run	___	___	___X___
16. Post spike in control	___	___	___X___

Comments:

Primary Review by _____
 Secondary Review by _____

Date 6/20/14
 Date 6/20/14

R:\icp\misc\data review forms\IPQ ExCell review form

Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	Cal. Blk	Blank	1.000	0	1	1	145
2	Cal. Stn.	Fully Quant Standard	1.000	0	1	2	145
3	ICV1	Unknown	1.000	0	1	3	145
4	CCV1	Unknown	1.000	0	1	2	145
5	ICB1	Unknown	1.000	0	1	1	145
6	CCB1	Unknown	1.000	0	1	1	145
7	LLICV	Unknown	1.000	0	1	4	145
8	ICSA	Unknown	1.000	0	1	5	145
9	ICSAB	Unknown	1.000	0	1	6	145
10	K1405818-MB	Unknown	1.000	1	1	1	145
11	LCSW	Unknown	1.000	1	1	2	145
12	K1405818-002	Unknown	1.000	1	1	3	145
13	K1405818-002D	Unknown	1.000	1	1	4	145
14	K1405818-002L 1/5	Unknown	1.000	1	1	5	145
15	K1405818-002A	Unknown	1.000	1	1	6	145
16	K1405818-002S	Unknown	1.000	1	1	7	145
17	K1405818-002SD	Unknown	1.000	1	1	8	145
18	CCV2	Unknown	1.000	0	1	2	145
19	CCB2	Unknown	1.000	0	1	1	145
20	LLCCV	Unknown	1.000	0	1	4	145
21	K1405818-001	Unknown	1.000	1	1	9	145
22	K1405818-003	Unknown	1.000	1	1	10	145
23	K1405818-004	Unknown	1.000	1	1	11	145
24	K1405572-001	Unknown	1.000	1	1	12	145
25	K1405556-008	Unknown	1.000	1	2	1	145
26	K1405556-017	Unknown	1.000	1	2	2	145
27	K1405556-018	Unknown	1.000	1	2	3	145
28	K1405721-001	Unknown	1.000	1	2	4	145
29	K1405721-002	Unknown	1.000	1	2	5	145
30	K1405721-003	Unknown	1.000	1	2	6	145
31	CCV3	Unknown	1.000	0	1	2	145
32	CCB3	Unknown	1.000	0	1	1	145
33	K1405721-004	Unknown	1.000	1	2	7	145
34	K1405721-005	Unknown	1.000	1	2	8	145
35	K1405721-006	Unknown	1.000	1	2	9	145
36	K1405926-001	Unknown	1.000	1	2	10	145
37	CCV4	Unknown	1.000	0	1	2	145
38	CCV4	Unknown	1.000	0	1	2	145
39	CCB4	Unknown	1.000	0	1	1	145
40	LLCCVW	Unknown	1.000	0	1	4	145

Performance Report

Sample details

Acquired at : 6/19/2014 6:16:03 AM

Report name : Kelso Performance Report 3 [8/24/2011 10:10:34 AM]

Mass Calibration verification

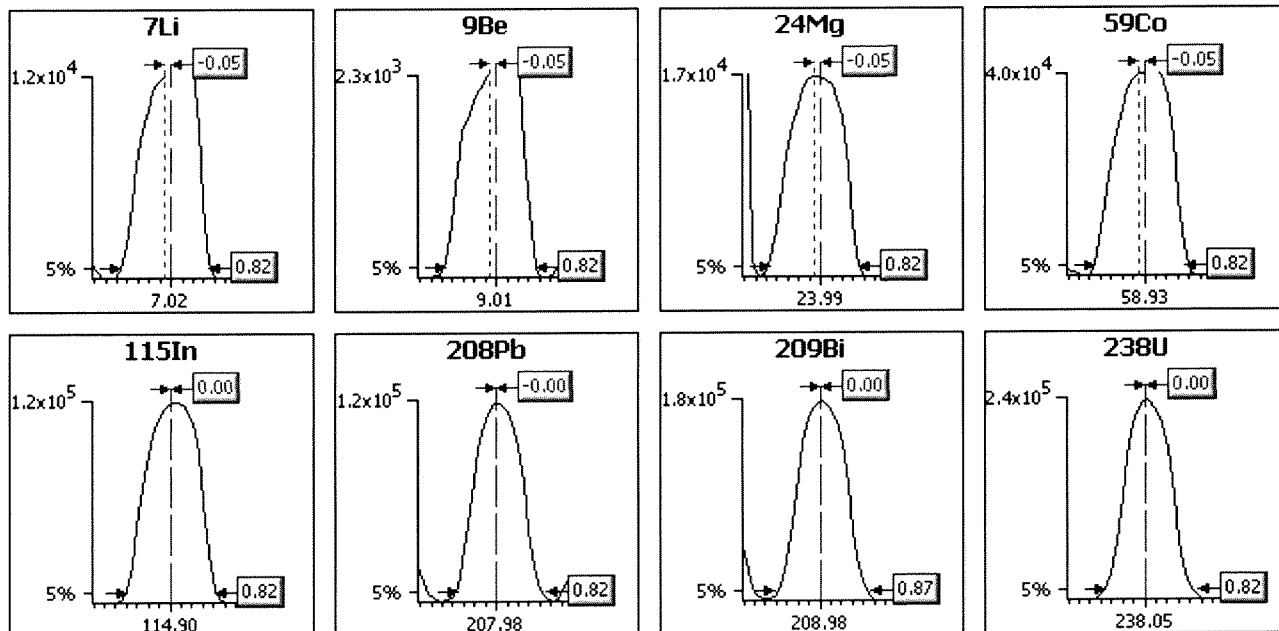
Acquisition parameters

Sweeps : 100

Dwell : 1.0 mSecs

Point spacing : 0.05 amu

Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
7Li	0.90	0.60	0.10	0.82	-0.05
9Be	0.90	0.60	0.10	0.82	-0.05
24Mg	0.90	0.60	0.10	0.82	-0.05
59Co	0.90	0.60	0.10	0.82	-0.05
115In	0.90	0.60	0.10	0.82	0.00
208Pb	0.90	0.60	0.10	0.82	-0.00
209Bi	0.90	0.60	0.10	0.87	0.00
238U	0.90	0.60	0.10	0.82	0.00

Sample details

Acquired at : 6/19/2014 6:16:03 AM

Report name : Kelso Performance Report 3 [8/24/2011 10:10:34 AM]

Tune conditions

Major		Minor		Global		Add. Gases
Extraction	-137	Lens 2	-10.2	Standard resolution	100	
Lens 1	2.9	Lens 3	-193.7	High resolution	71	
Focus	18.0	Forward power	1247	Analogue Detector	2000	
D1	-40.8	Horizontal	143	PC Detector	3333	
Pole Bias	0.3	Vertical	400			
Hexapole Bias	0.6	D2	-152			
Nebuliser	0.79	DA	-31.4			
Sampling Depth	63	Cool	13.0			
		Auxiliary	0.80			

Sensitivity and stability results**Acquisition parameters**

Sweeps : 400

Run	Time	5Bkg	7Li	9Be	24Mg	59Co	115In	140Ce	156Ce O	208Pb
Dwell (mSecs)		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	5.0%	-	-	5.0%
	CountRate	-	>1000	>1000	>1000	>1000	>1000	-	-	>1000
1	6:16:36 AM	0.250	12191.169	2453.081	16957.301	41367.155	124636.57	137198.79	1447.365	119635.80
2	6:17:49 AM	0.000	12064.250	2512.347	16790.241	41256.152	124211.56	137278.22	1469.119	119719.90
3	6:19:02 AM	0.500	12050.481	2458.082	16779.721	41196.633	124372.74	137506.38	1431.363	119771.32
4	6:20:15 AM	0.000	12016.687	2473.086	16824.805	40824.711	124375.78	137569.58	1392.357	119827.05
5	6:21:29 AM	0.000	12129.336	2439.077	16798.506	41066.797	124733.38	137788.86	1429.612	120072.51
x		0.150	12090.385	2467.135	16830.115	41142.290	124466.01	137468.37	1433.963	119805.32
σ		0.22	69.61	28.05	73.03	207.99	213.40	236.24	28.16	165.11
%RSD		149.071	0.576	1.137	0.434	0.506	0.171	0.172	1.964	0.138

Run	Time	209Bi	220Bkg	238U
Dwell (mSecs)		10.0	10.0	10.0
Limits	%RSD	5.0%	-	5.0%
	CountRate	>1000	-	>1000
1	6:16:36 AM	185648.69	0.000	244400.67
2	6:17:49 AM	185807.64	0.500	244794.04
3	6:19:02 AM	185050.68	0.250	243760.57
4	6:20:15 AM	185352.49	0.250	244033.24
5	6:21:29 AM	185885.71	0.000	243960.32
x		185549.04	0.200	244189.77
σ		345.38	0.21	409.57
%RSD		0.186	104.583	0.168

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0300
1	6:16:36 AM	0.011
2	6:17:49 AM	0.011
3	6:19:02 AM	0.010
4	6:20:15 AM	0.010
5	6:21:29 AM	0.010
x		0.0104
σ		0.00
%RSD		2.0723

Result : The performance report passed.

Dilution Corrected Concentrations

Cal. Blk 6/19/2014 2:20:41 PM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	14:20:41	98.5%	0.0006	-0.0050	0.0370	0.0009	0.0134	99.1%	0.0809
2	14:21:28	99.9%	-0.0006	-0.0076	-0.0224	0.0003	-0.0186	100.6%	-0.3076
3	14:22:13	101.6%	-0.0000	0.0126	-0.0147	-0.0013	0.0051	100.4%	0.2268
x		100.0%	0.0000	0.0000	0.0000	-0.0000	0.0000	100.0%	-0.0000
σ		1.6%	0.0006	0.0110	0.0323	0.0011	0.0166	0.8%	0.2762
%RSD		1.6	0.0000	0.0000	0.0000	0.0000	0.0000	0.8	0.0000
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	14:20:41	-0.0016	-0.0045	0.0089	-0.0456	0.0023	100.1%	-0.0688	0.2187
2	14:21:28	-0.0001	0.0001	-0.0061	0.0168	-0.0024	99.8%	0.0509	-0.1908
3	14:22:13	0.0016	0.0043	-0.0028	0.0288	0.0001	100.1%	0.0179	-0.0279
x		-0.0000	-0.0000	0.0000	0.0000	0.0000	100.0%	-0.0000	-0.0000
σ		0.0016	0.0044	0.0079	0.0399	0.0023	0.2%	0.0618	0.2062
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.2	0.0000	0.0000
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	14:20:41	-0.0261	-0.0104	0.0087	-0.0042	0.0012	-0.0075	-0.0098	0.0009
2	14:21:28	-0.0895	-0.0853	-0.0024	0.0006	-0.0026	0.0037	0.0057	0.0012
3	14:22:13	0.1156	0.0957	-0.0063	0.0036	0.0014	0.0038	0.0041	-0.0021
x		0.0000	0.0000	-0.0000	0.0000	-0.0000	0.0000	-0.0000	0.0000
σ		0.1050	0.0910	0.0078	0.0039	0.0022	0.0065	0.0085	0.0019
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	14:20:41	0.0005	98.9%	98.5%	-0.0000	-0.0000	0.0005	0.0029	0.0005
2	14:21:28	0.0016	99.8%	100.6%	-0.0005	-0.0000	-0.0013	-0.0007	-0.0007
3	14:22:13	-0.0021	101.3%	100.8%	0.0006	0.0001	0.0009	-0.0022	0.0002
x		-0.0000	100.0%	100.0%	0.0000	0.0000	0.0000	-0.0000	0.0000
σ		0.0019	1.2%	1.3%	0.0006	0.0001	0.0012	0.0027	0.0006
%RSD		0.0000	1.2	1.3	0.0000	0.0000	0.0000	0.0000	0.0000

Cal. Stn. 6/19/2014 2:25:15 PM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	14:25:15	98.1%	25.2427	24.9661	24.9092	25.1026	25.0300	97.2%	25.0497
2	14:26:01	98.4%	24.9804	25.1185	25.2307	25.1009	24.8928	96.8%	24.6996
3	14:26:47	99.5%	24.7769	24.9154	24.8601	24.7965	25.0772	96.5%	25.2507
x		98.6%	25.0000	25.0000	25.0000	25.0000	25.0000	96.8%	25.0000
σ		0.7%	0.2336	0.1057	0.2013	0.1762	0.0958	0.4%	0.2789
%RSD		0.8	0.9342	0.4229	0.8051	0.7049	0.3831	0.4	1.1155
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	14:25:15	25.0137	24.9614	25.1222	24.9778	25.1217	97.2%	25.0001	24.3371
2	14:26:01	25.1740	25.0341	25.0551	25.0528	25.0339	97.3%	25.2430	24.7826
3	14:26:47	24.8123	25.0045	24.8227	24.9695	24.8443	97.0%	24.7569	25.8803
x		25.0000	25.0000	25.0000	25.0000	25.0000	97.1%	25.0000	25.0000
σ		0.1813	0.0366	0.1572	0.0459	0.1418	0.2%	0.2430	0.7942
%RSD		0.7250	0.1462	0.6287	0.1835	0.5671	0.2	0.9721	3.1770
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	14:25:15	25.4763	24.6901	24.9195	25.1294	24.8860	24.8105	24.9265	25.0075
2	14:26:01	24.6417	25.0666	25.0578	24.9005	24.8674	25.0201	24.9587	25.0494
3	14:26:47	24.8820	25.2433	25.0227	24.9701	25.2466	25.1694	25.1148	24.9431
x		25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000
σ		0.4296	0.2826	0.0719	0.1173	0.2138	0.1803	0.1007	0.0535
%RSD		1.7184	1.1303	0.2874	0.4694	0.8552	0.7212	0.4028	0.2141
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	14:25:15	24.8696	98.2%	99.4%	24.8761	25.1163	25.0241	24.9900	25.0338
2	14:26:01	24.8503	98.8%	101.2%	24.9929	24.9146	25.0260	24.9897	24.9327
3	14:26:47	25.2801	97.8%	100.2%	25.1310	24.9691	24.9500	25.0204	25.0336
x		25.0000	98.3%	100.3%	25.0000	25.0000	25.0000	25.0000	25.0000
σ		0.2428	0.5%	0.9%	0.1276	0.1043	0.0433	0.0176	0.0583
%RSD		0.9710	0.5	0.9	0.5104	0.4174	0.1733	0.0706	0.2332

ICV1 6/19/2014 2:29:03 PM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	14:29:03	96.8%	2.4469	9.7427	9.9187	24.3795	24.7727	92.9%	24.5136
2	14:29:48	98.4%	2.5034	9.6174	9.7826	24.3308	24.5840	92.3%	25.0078
3	14:30:34	99.0%	2.3877	9.5802	9.5063	24.3874	24.8006	91.8%	24.8885
x		98.1%	2.4460	9.6468	9.7359	24.3659	24.7191	92.3%	24.8033
σ		1.1%	0.0579	0.0852	0.2101	0.0307	0.1178	0.5%	0.2579
%RSD		1.2	2.3664	0.8827	2.1580	0.1259	0.4767	0.6	1.0397
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	14:29:03	11.9402	11.9742	24.5536	28.3146	27.6526	94.4%	25.6335	25.6884
2	14:29:48	12.0108	12.0396	25.0090	29.0240	27.8275	94.7%	25.2555	25.3859
3	14:30:34	11.9870	12.0337	24.8075	28.7983	27.6862	94.8%	25.4502	26.2075
x		11.9793	12.0158	24.7901	28.7123	27.7221	94.7%	25.4464	25.7606
σ		0.0359	0.0362	0.2282	0.3624	0.0928	0.2%	0.1890	0.4155
%RSD		0.3000	0.3012	0.9205	1.2623	0.3347	0.2	0.7428	1.6130
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	14:29:03	24.9717	25.8691	25.0530	25.2864	25.0920	12.4045	12.3562	12.8824
2	14:29:48	25.0754	25.2393	24.9469	24.9383	24.9890	12.3998	12.3678	12.8349
3	14:30:34	25.6134	26.2720	24.8645	25.1540	25.1189	12.2773	12.3700	12.9185
x		25.2202	25.7935	24.9548	25.1262	25.0666	12.3605	12.3647	12.8786
σ		0.3445	0.5205	0.0945	0.1757	0.0686	0.0721	0.0074	0.0420
%RSD		1.3660	2.0178	0.3787	0.6992	0.2736	0.5835	0.0601	0.3258
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	14:29:03	12.6610	95.4%	100.1%	25.6182	24.7762	24.0577	24.9009	24.4187
2	14:29:48	12.8244	96.5%	101.2%	25.7262	24.9253	24.0426	24.9000	24.5497
3	14:30:34	12.7932	96.3%	100.9%	25.4097	25.0178	24.2147	25.1809	24.6657
x		12.7595	96.1%	100.7%	25.5847	24.9064	24.1050	24.9939	24.5447
σ		0.0867	0.6%	0.6%	0.1609	0.1219	0.0953	0.1619	0.1236
%RSD		0.6796	0.6	0.6	0.6289	0.4893	0.3954	0.6479	0.5034

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	14:33:11	96.1%	25.0541	24.8245	25.1498	24.9798	25.1290	91.7%	24.8751
2	14:33:57	96.6%	25.0929	24.4982	24.9341	24.4854	25.0005	91.4%	25.3061
3	14:34:43	99.0%	24.6259	24.7958	25.2373	24.7158	25.2954	90.7%	25.7207
x		97.2%	24.9243	24.7062	25.1070	24.7270	25.1416	91.3%	25.3006
σ		1.5%	0.2591	0.1807	0.1560	0.2474	0.1478	0.5%	0.4228
%RSD		1.6	1.0397	0.7312	0.6215	1.0005	0.5881	0.5	1.6711
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	14:33:11	24.6999	24.8640	25.0259	24.9369	25.0200	92.8%	25.1079	25.6963
2	14:33:57	24.5823	24.8802	24.9972	25.4651	25.0827	93.6%	24.5633	24.8555
3	14:34:43	24.4957	24.9450	24.8829	24.6418	25.2771	93.3%	24.3734	25.6491
x		24.5927	24.8964	24.9687	25.0146	25.1266	93.2%	24.6815	25.4003
σ		0.1025	0.0429	0.0757	0.4171	0.1341	0.4%	0.3813	0.4724
%RSD		0.4167	0.1722	0.3030	1.6675	0.5336	0.4	1.5448	1.8597
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	14:33:11	24.3000	25.7212	24.6720	24.6537	24.9421	24.7797	24.7338	24.7526
2	14:33:57	24.5943	23.5222	24.8812	24.9610	24.8736	24.8104	25.0081	25.0861
3	14:34:43	24.5109	25.1621	24.9013	24.8769	24.9090	25.0010	24.9935	25.2114
x		24.4684	24.8018	24.8181	24.8305	24.9082	24.8637	24.9118	25.0167
σ		0.1517	1.1429	0.1270	0.1588	0.0342	0.1199	0.1543	0.2371
%RSD		0.6198	4.6080	0.5116	0.6397	0.1375	0.4822	0.6194	0.9479
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	14:33:11	24.6639	95.4%	97.8%	25.0096	24.9889	25.0457	24.9233	24.9259
2	14:33:57	24.7626	95.4%	98.6%	25.4038	24.9074	25.1690	25.0316	25.0860
3	14:34:43	24.8520	95.2%	99.8%	25.4738	24.8627	24.7740	24.6300	24.7006
x		24.7595	95.3%	98.7%	25.2957	24.9197	24.9962	24.8617	24.9042
σ		0.0941	0.1%	1.0%	0.2502	0.0640	0.2021	0.2078	0.1936
%RSD		0.3802	0.2	1.0	0.9893	0.2568	0.8087	0.8358	0.7775

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	52Cr	53Cr	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:41:09	94.0%	0.0001	-0.0143	-0.4904	-0.0003	0.0184	91.3%	-0.1508
2	14:41:55	94.9%	0.0037	-0.0323	-0.5451	0.0048	-0.0018	92.5%	-0.2524
3	14:42:41	96.1%	0.0006	0.0901	-0.0406	0.0053	0.0464	96.3%	-0.0296
x		95.0%	0.0015	0.0145	-0.3587	0.0033	0.0210	93.4%	-0.1443
σ		1.1%	0.0020	0.0661	0.2768	0.0031	0.0242	2.6%	0.1116
%RSD		1.1	132.5999	455.1497	77.1691	94.8947	115.3090	2.8	77.3210
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:41:09	-0.0094	-0.0079	0.0089	-0.0545	0.0129	92.1%	0.0490	-0.1442
2	14:41:55	-0.0071	0.0121	-0.0074	-0.1030	0.0089	93.3%	-0.1554	0.5248
3	14:42:41	-0.0018	0.0051	0.0082	-0.0808	0.0019	89.9%	0.0371	0.4345
x		-0.0061	0.0031	0.0032	-0.0795	0.0079	91.8%	-0.0231	0.2717
σ		0.0039	0.0102	0.0092	0.0243	0.0056	1.7%	0.1147	0.3630
%RSD		64.5707	328.9425	287.0870	30.5692	70.3840	1.9	496.4915	133.6090
Run	Time	78Se	82Se	95Mo	97Mo	98Mo	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:41:09	-0.4284	0.1538	0.0094	0.0248	0.0352	0.0259	0.0311	0.0113
2	14:41:55	-0.5551	-0.0893	0.0385	0.0298	0.0324	0.0365	0.0461	0.0037
3	14:42:41	-0.2715	-0.0639	0.0127	0.0461	0.0370	0.0409	0.0330	0.0117
x		-0.4184	0.0002	0.0202	0.0336	0.0349	0.0345	0.0367	0.0089
σ		0.1421	0.1336	0.0159	0.0111	0.0023	0.0077	0.0082	0.0045
%RSD		33.9624	59813.7250	78.8119	33.1979	6.7178	22.3868	22.3564	50.9694
Run	Time	114Cd	115In	175Lu	203Tl	205Tl	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:41:09	0.0019	93.0%	96.8%	0.0011	0.0006	0.0004	-0.0028	-0.0006
2	14:41:55	-0.0007	94.3%	98.4%	0.0020	0.0005	0.0027	-0.0046	-0.0004
3	14:42:41	0.0008	91.2%	94.3%	0.0004	0.0012	0.0009	0.0018	0.0007
x		0.0007	92.8%	96.5%	0.0012	0.0008	0.0013	-0.0019	-0.0001
σ		0.0013	1.6%	2.1%	0.0008	0.0004	0.0012	0.0033	0.0007
%RSD		196.8914	1.7	2.1	68.2377	48.0859	91.8169	177.0177	632.5063

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	14:46:03	94.7%	0.0056	-0.0096	-0.3063	0.0031	-0.2779	91.3%	-0.3977
2	14:46:49	96.8%	0.0018	-0.0482	-0.6867	0.0060	-0.0135	91.3%	0.3943
3	14:47:35	97.3%	0.0018	-0.0382	-0.5282	0.0043	-0.1388	91.2%	-0.0145
x		96.3%	0.0031	-0.0320	-0.5071	0.0045	-0.1434	91.3%	-0.0060
σ		1.4%	0.0022	0.0200	0.1911	0.0015	0.1322	0.0%	0.3961
%RSD		1.5	70.4076	62.6317	37.6844	33.2625	92.2092	0.0	6635.6481
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	14:46:03	-0.0063	0.0030	0.0091	-0.0871	0.0036	91.0%	-0.1058	0.4243
2	14:46:49	-0.0061	0.0060	-0.0172	-0.0065	0.0018	93.5%	0.0572	0.0518
3	14:47:35	-0.0061	0.0046	0.0051	-0.0844	-0.0080	92.8%	-0.0146	0.2185
x		-0.0062	0.0045	-0.0010	-0.0593	-0.0009	92.5%	-0.0211	0.2315
σ		0.0001	0.0015	0.0142	0.0458	0.0062	1.3%	0.0817	0.1866
%RSD		2.3381	33.4506	1392.3776	77.2152	690.5881	1.4	387.7643	80.6008
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	14:46:03	-0.5257	0.0051	-0.0144	0.0021	0.0136	-0.0132	-0.0013	0.0012
2	14:46:49	-0.5100	0.0244	-0.0123	0.0114	0.0212	-0.0007	0.0024	0.0196
3	14:47:35	-0.6762	0.1862	-0.0191	0.0269	0.0193	-0.0023	0.0068	0.0123
x		-0.5706	0.0719	-0.0153	0.0135	0.0180	-0.0054	0.0027	0.0110
σ		0.0918	0.0994	0.0035	0.0125	0.0040	0.0068	0.0041	0.0093
%RSD		16.0815	138.2503	22.9324	92.9559	22.0423	125.1179	152.6290	84.3259
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	14:46:03	0.0052	92.6%	96.4%	0.0015	0.0023	0.0043	-0.0006	0.0166
2	14:46:49	0.0024	93.9%	98.2%	0.0045	0.0017	0.0057	-0.0005	0.0027
3	14:47:35	0.0035	94.1%	97.9%	0.0031	0.0030	0.0075	0.0039	0.0035
x		0.0037	93.6%	97.5%	0.0031	0.0023	0.0058	0.0009	0.0076
σ		0.0014	0.8%	1.0%	0.0015	0.0006	0.0016	0.0026	0.0078
%RSD		38.3358	0.9	1.0	48.2572	26.4894	27.2056	274.2960	102.6318

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	14:51:09	94.6%	0.2061	1.8883	1.3264	0.1995	2.2112	87.1%	1.8786
2	14:51:55	95.4%	0.2042	2.1066	1.6667	0.2143	2.1076	90.6%	1.9054
3	14:52:41	97.9%	0.1984	1.8802	1.0621	0.2169	2.1399	88.3%	2.8097
x		96.0%	0.2029	1.9584	1.3517	0.2102	2.1529	88.6%	2.1979
σ		1.7%	0.0040	0.1284	0.3031	0.0094	0.0530	1.8%	0.5300
%RSD		1.8	1.9827	6.5567	22.4224	4.4531	2.4627	2.0	24.1134
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	14:51:09	0.9835	1.0209	4.9980	4.7757	4.7656	90.5%	4.9006	9.6399
2	14:51:55	1.0578	1.0704	5.2231	4.7284	4.9154	88.8%	5.4024	9.9519
3	14:52:41	0.9944	0.9737	4.9221	4.6839	4.7327	92.3%	5.1376	9.3447
x		1.0119	1.0217	5.0477	4.7293	4.8046	90.5%	5.1468	9.6455
σ		0.0401	0.0484	0.1566	0.0459	0.0974	1.8%	0.2510	0.3037
%RSD		3.9630	4.7350	3.1017	0.9709	2.0265	1.9	4.8774	3.1481
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	14:51:09	9.2922	9.2705	0.4421	0.4779	0.4936	0.1429	0.1314	0.2090
2	14:51:55	9.6392	10.4913	0.4823	0.5237	0.5238	0.1577	0.1602	0.2144
3	14:52:41	8.8503	9.6374	0.4924	0.4561	0.5077	0.1703	0.1647	0.1959
x		9.2606	9.7998	0.4723	0.4859	0.5084	0.1569	0.1521	0.2064
σ		0.3954	0.6264	0.0266	0.0345	0.0151	0.0137	0.0181	0.0095
%RSD		4.2697	6.3919	5.6376	7.1032	2.9671	8.7400	11.8946	4.6011
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	14:51:09	0.2121	91.9%	96.6%	0.2034	0.2041	0.2232	0.2186	0.2164
2	14:51:55	0.2232	90.5%	94.5%	0.2227	0.2095	0.2319	0.2377	0.2300
3	14:52:41	0.2112	93.3%	98.1%	0.2084	0.1996	0.2121	0.2191	0.2143
x		0.2155	91.9%	96.4%	0.2115	0.2044	0.2224	0.2251	0.2202
σ		0.0067	1.4%	1.8%	0.0101	0.0050	0.0100	0.0109	0.0085
%RSD		3.1105	1.5	1.9	4.7547	2.4312	4.4786	4.8305	3.8602

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	14:55:57	83.1%	0.0485	1.0988	1.4678	1.0686	1.4752	81.5%	2.2986
2	14:56:43	84.7%	0.0476	1.1318	1.3776	1.0926	1.5829	82.8%	1.7376
3	14:57:29	85.6%	0.0525	1.0934	1.4668	1.0721	1.3283	84.0%	1.9470
x		84.5%	0.0495	1.1080	1.4374	1.0778	1.4621	82.8%	1.9944
σ		1.3%	0.0026	0.0208	0.0518	0.0130	0.1278	1.3%	0.2835
%RSD		1.5	5.2385	1.8781	3.6022	1.2058	8.7398	1.5	14.2138
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	14:55:57	0.5460	0.5584	1.5412	1.9420	1.3379	84.8%	0.0528	1.6681
2	14:56:43	0.5545	0.5393	1.5580	1.9720	1.3537	85.6%	0.0892	1.2946
3	14:57:29	0.5480	0.5448	1.5210	1.9630	1.3966	86.1%	-0.1168	1.7210
x		0.5495	0.5475	1.5401	1.9590	1.3627	85.5%	0.0084	1.5612
σ		0.0044	0.0099	0.0185	0.0154	0.0304	0.6%	0.1100	0.2324
%RSD		0.8063	1.8044	1.2024	0.7857	2.2310	0.7	1310.0940	14.8888
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	14:55:57	-0.2129	-0.1911	52.8415	52.6369	52.5930	0.0206	0.0215	0.2364
2	14:56:43	-0.3003	-0.3723	53.2361	54.0325	53.6311	0.0224	0.0237	0.2535
3	14:57:29	-0.4996	-0.6460	53.0798	53.2076	53.3428	0.0257	0.0158	0.2679
x		-0.3376	-0.4031	53.0524	53.2923	53.1890	0.0229	0.0204	0.2526
σ		0.1469	0.2290	0.1987	0.7017	0.5359	0.0026	0.0041	0.0158
%RSD		43.5258	56.8175	0.3746	1.3166	1.0075	11.2330	20.0340	6.2435
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	14:55:57	0.1857	87.6%	92.3%	0.0190	0.0177	0.0807	0.0739	0.0755
2	14:56:43	0.1834	88.0%	93.7%	0.0170	0.0169	0.0810	0.0724	0.0768
3	14:57:29	0.1886	88.8%	93.1%	0.0185	0.0182	0.0786	0.0734	0.0761
x		0.1859	88.1%	93.0%	0.0182	0.0176	0.0801	0.0732	0.0761
σ		0.0026	0.6%	0.7%	0.0010	0.0006	0.0013	0.0008	0.0007
%RSD		1.4089	0.7	0.8	5.7303	3.5921	1.6418	1.0758	0.8977

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	15:00:30	84.8%	0.0359	52.3609	51.4733	51.5407	50.5441	84.4%	52.0895
2	15:01:15	85.4%	0.0370	52.8733	52.4015	51.6463	50.4849	85.8%	50.8291
3	15:02:01	86.9%	0.0283	52.3601	51.9321	51.8864	50.2948	85.6%	51.0591
x		85.7%	0.0337	52.5315	51.9356	51.6911	50.4413	85.3%	51.3259
σ		1.1%	0.0047	0.2961	0.4641	0.1772	0.1303	0.7%	0.6712
%RSD		1.2	14.0122	0.5636	0.8937	0.3428	0.2582	0.8	1.3078
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	15:00:30	48.0449	48.6279	25.9744	25.2401	25.0617	85.9%	25.4878	26.0943
2	15:01:15	48.2865	48.7724	26.0341	25.0999	24.7356	86.3%	25.5110	27.3050
3	15:02:01	48.4678	49.1295	26.4452	25.8431	25.0713	86.1%	25.5592	26.2282
x		48.2664	48.8432	26.1512	25.3943	24.9562	86.1%	25.5193	26.5425
σ		0.2121	0.2582	0.2563	0.3949	0.1911	0.2%	0.0365	0.6637
%RSD		0.4395	0.5287	0.9801	1.5551	0.7657	0.2	0.1429	2.5005
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	15:00:30	24.4471	23.6476	53.5155	53.5943	53.5704	12.0693	11.9933	25.1051
2	15:01:15	24.7387	24.2984	53.3351	53.6285	53.6158	12.1074	12.2314	25.3044
3	15:02:01	24.8486	24.7380	53.5023	53.9654	53.7103	12.2261	12.2895	25.1336
x		24.6781	24.2280	53.4510	53.7294	53.6321	12.1343	12.1714	25.1810
σ		0.2075	0.5486	0.1006	0.2051	0.0714	0.0818	0.1570	0.1078
%RSD		0.8409	2.2642	0.1882	0.3817	0.1331	0.6739	1.2896	0.4280
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	15:00:30	24.9817	88.0%	91.9%	0.0118	0.0120	0.0722	0.0752	0.0720
2	15:01:15	24.9907	88.9%	93.0%	0.0157	0.0112	0.0728	0.0705	0.0690
3	15:02:01	24.8173	88.7%	92.7%	0.0133	0.0115	0.0671	0.0736	0.0708
x		24.9299	88.5%	92.5%	0.0136	0.0116	0.0707	0.0731	0.0706
σ		0.0976	0.5%	0.6%	0.0020	0.0004	0.0031	0.0024	0.0015
%RSD		0.3916	0.6	0.6	14.6775	3.1333	4.4053	3.3304	2.1068

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	52Cr	53Cr	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:06:52	90.2%	0.0150	-0.2349	-1.5267	-0.0028	-0.1118	38.9%	1.0075
2	15:07:38	93.3%	0.0101	-0.2244	-0.9239	-0.0017	0.0031	39.3%	1.5155
3	15:08:23	93.2%	0.0082	-0.2368	-0.5038	-0.0038	0.3173	39.5%	1.2442
x		92.2%	0.0111	-0.2320	-0.9848	-0.0028	0.0695	39.2%	1.2557
σ		1.8%	0.0035	0.0067	0.5142	0.0011	0.2221	0.3%	0.2542
%RSD		1.9	31.5858	2.8810	52.2145	38.8596	319.4465	0.8	20.2442
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:06:52	0.1051	0.0364	0.7053	0.5812	0.7118	91.5%	-0.0264	-1.5364
2	15:07:38	0.1141	0.0436	0.7327	0.5774	0.6891	93.7%	-0.0359	-1.2940
3	15:08:23	0.1068	0.0391	0.7099	0.5562	0.6952	94.1%	0.0460	-1.3197
x		0.1087	0.0397	0.7160	0.5716	0.6987	93.1%	-0.0054	-1.3834
σ		0.0048	0.0036	0.0147	0.0135	0.0118	1.4%	0.0448	0.1332
%RSD		4.4047	9.1394	2.0531	2.3532	1.6834	1.5	823.3776	9.6256
Run	Time	78Se	82Se	95Mo	97Mo	98Mo	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:06:52	-0.3221	-0.1315	0.0462	0.0465	0.0517	-0.0119	-0.0143	0.0083
2	15:07:38	-0.1121	0.0110	0.0241	0.0534	0.0572	-0.0086	-0.0104	0.0075
3	15:08:23	-0.4524	0.1368	0.0185	0.0343	0.0498	-0.0223	-0.0143	0.0031
x		-0.2955	0.0054	0.0296	0.0447	0.0529	-0.0143	-0.0130	0.0063
σ		0.1717	0.1342	0.0146	0.0097	0.0038	0.0071	0.0022	0.0028
%RSD		58.1000	2479.7730	49.4209	21.6289	7.2747	49.8362	17.2441	44.8896
Run	Time	114Cd	115In	175Lu	203Tl	205Tl	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:06:52	-0.0028	92.7%	96.6%	-0.0032	-0.0011	-0.0029	-0.0016	-0.0035
2	15:07:38	0.0017	95.2%	98.6%	-0.0002	-0.0010	-0.0021	-0.0032	-0.0040
3	15:08:23	-0.0038	96.0%	98.6%	-0.0015	-0.0019	-0.0033	-0.0051	-0.0036
x		-0.0016	94.7%	97.9%	-0.0016	-0.0013	-0.0028	-0.0033	-0.0037
σ		0.0029	1.7%	1.2%	0.0015	0.0005	0.0006	0.0017	0.0002
%RSD		179.6898	1.8	1.2	91.7463	37.5179	23.3095	52.5289	6.4404

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	15:11:31	91.7%	13.7530	19.3838	17.9729	18.5910	20.2858	84.1%	20.8392
2	15:12:17	91.3%	13.9873	20.0395	18.9882	19.1063	20.5114	85.2%	20.8146
3	15:13:03	92.1%	13.9943	19.2947	17.8868	18.5151	20.0398	84.1%	20.6511
x		91.7%	13.9115	19.5727	18.2826	18.7375	20.2790	84.5%	20.7683
σ		0.4%	0.1373	0.4068	0.6126	0.3216	0.2359	0.6%	0.1022
%RSD		0.4	0.9873	2.0782	3.3505	1.7166	1.1630	0.8	0.4923
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	15:11:31	18.8314	19.1405	21.7519	21.6331	21.7056	91.8%	19.2565	17.9589
2	15:12:17	19.5766	19.7783	22.5298	22.2262	22.2991	90.4%	19.8218	18.8261
3	15:13:03	19.1010	19.2715	21.8939	21.2670	21.6070	91.5%	19.4409	17.7787
x		19.1697	19.3968	22.0585	21.7088	21.8706	91.2%	19.5064	18.1879
σ		0.3773	0.3368	0.4143	0.4840	0.3743	0.7%	0.2883	0.5600
%RSD		1.9682	1.7366	1.8781	2.2297	1.7116	0.8	1.4779	3.0789
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	15:11:31	19.1663	18.9800	2.7907	2.7647	2.7783	18.4128	18.5783	19.5764
2	15:12:17	19.1841	19.2157	2.9356	2.8817	2.9864	19.3412	19.5208	20.3968
3	15:13:03	18.7161	19.4060	2.7411	2.8584	2.8151	18.7409	18.6669	19.5044
x		19.0222	19.2006	2.8225	2.8349	2.8599	18.8316	18.9220	19.8259
σ		0.2652	0.2134	0.1011	0.0619	0.1111	0.4708	0.5204	0.4957
%RSD		1.3942	1.1114	3.5808	2.1851	3.8832	2.5001	2.7505	2.5005
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	15:11:31	19.2541	93.2%	97.1%	19.3107	18.9883	19.4837	19.3298	19.3182
2	15:12:17	20.2448	91.7%	96.8%	20.4623	19.7512	20.0906	19.9609	19.9047
3	15:13:03	19.2615	93.7%	99.0%	19.5453	18.8902	19.2002	19.1031	19.1390
x		19.5868	92.9%	97.6%	19.7728	19.2099	19.5915	19.4646	19.4540
σ		0.5699	1.0%	1.2%	0.6086	0.4714	0.4549	0.4445	0.4005
%RSD		2.9094	1.1	1.2	3.0779	2.4538	2.3218	2.2836	2.0585

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	15:18:30	83.4%	0.0742	3.0425	2.7491	0.6943	3.4492	73.5%	4.1558
2	15:19:16	84.8%	0.0510	3.0144	3.7070	0.6993	3.6444	74.7%	4.8055
3	15:20:02	87.6%	0.0480	3.0259	3.2850	0.6762	3.3744	75.9%	4.7607
x		85.2%	0.0577	3.0276	3.2471	0.6899	3.4893	74.7%	4.5740
σ		2.2%	0.0143	0.0141	0.4801	0.0121	0.1394	1.2%	0.3629
%RSD		2.5	24.8616	0.4670	14.7850	1.7594	3.9956	1.6	7.9335
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	15:18:30	3.1825	2.4517	7.0085	7.5797	7.2175	85.1%	189.9321	0.9746
2	15:19:16	3.2451	2.4371	6.9894	7.7132	7.2456	87.4%	189.3214	1.1043
3	15:20:02	3.2547	2.4002	6.9928	8.0082	7.1718	88.4%	188.7269	1.5810
x		3.2274	2.4297	6.9969	7.7670	7.2116	87.0%	189.3268	1.2199
σ		0.0392	0.0266	0.0102	0.2193	0.0373	1.7%	0.6026	0.3193
%RSD		1.2154	1.0934	0.1452	2.8232	0.5169	2.0	0.3183	26.1725
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	15:18:30	0.6130	1.4455	23.8242	23.9713	23.6854	0.0358	0.0426	0.0808
2	15:19:16	0.5068	1.5129	23.7456	23.6428	23.7569	0.0351	0.0321	0.0985
3	15:20:02	0.9654	1.2628	23.8452	24.0268	23.9556	0.0296	0.0389	0.1171
x		0.6951	1.4071	23.8050	23.8803	23.7993	0.0335	0.0379	0.0988
σ		0.2401	0.1294	0.0525	0.2076	0.1400	0.0034	0.0053	0.0182
%RSD		34.5385	9.1961	0.2207	0.8692	0.5882	10.0251	14.0702	18.3741
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	15:18:30	0.0571	86.6%	93.7%	0.0328	0.0298	2.5367	2.5267	2.4970
2	15:19:16	0.0552	88.9%	94.9%	0.0277	0.0260	2.5716	2.4808	2.5056
3	15:20:02	0.0591	89.5%	94.9%	0.0243	0.0222	2.5490	2.5182	2.5205
x		0.0571	88.3%	94.5%	0.0283	0.0260	2.5524	2.5086	2.5077
σ		0.0019	1.6%	0.7%	0.0043	0.0038	0.0177	0.0244	0.0119
%RSD		3.3416	1.8	0.7	15.1616	14.5567	0.6922	0.9739	0.4730

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	15:23:17	85.1%	0.0494	3.1603	3.6769	0.6471	3.8398	77.5%	4.7971
2	15:24:03	85.1%	0.0808	3.1396	3.7984	0.6293	3.7884	78.5%	4.7710
3	15:24:48	87.3%	0.0834	3.0902	3.9674	0.6276	3.8543	78.5%	5.1080
x		85.9%	0.0712	3.1301	3.8142	0.6347	3.8275	78.2%	4.8920
σ		1.3%	0.0189	0.0360	0.1459	0.0108	0.0346	0.6%	0.1875
%RSD		1.5	26.5864	1.1505	3.8261	1.6962	0.9041	0.7	3.8326
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	15:23:17	3.3119	2.4717	6.4551	7.1469	6.3891	87.7%	196.3352	1.1738
2	15:24:03	3.2826	2.5319	6.2809	7.0874	6.4109	89.2%	195.5180	1.7973
3	15:24:48	3.2948	2.5298	6.3660	7.0443	6.4980	89.4%	195.2675	1.1754
x		3.2964	2.5111	6.3673	7.0929	6.4327	88.8%	195.7069	1.3822
σ		0.0148	0.0342	0.0871	0.0515	0.0576	1.0%	0.5583	0.3595
%RSD		0.4477	1.3614	1.3683	0.7267	0.8951	1.1	0.2853	26.0113
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	15:23:17	1.3681	1.3806	24.8188	24.7995	24.8226	0.0125	0.0074	0.1107
2	15:24:03	0.7031	1.6082	24.7837	24.8160	24.6054	0.0103	0.0124	0.1028
3	15:24:48	0.9247	1.1085	24.5340	24.8073	24.6003	0.0120	0.0109	0.1070
x		0.9986	1.3658	24.7122	24.8076	24.6761	0.0116	0.0102	0.1068
σ		0.3386	0.2502	0.1553	0.0083	0.1269	0.0012	0.0026	0.0039
%RSD		33.9085	18.3193	0.6285	0.0334	0.5142	10.2003	25.0585	3.6930
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	15:23:17	0.0564	88.9%	94.3%	0.0109	0.0131	2.6020	2.5502	2.5625
2	15:24:03	0.0516	90.7%	95.8%	0.0119	0.0100	2.5793	2.5314	2.5441
3	15:24:48	0.0541	90.9%	94.5%	0.0117	0.0109	2.6421	2.5880	2.5937
x		0.0540	90.2%	94.9%	0.0115	0.0113	2.6078	2.5565	2.5668
σ		0.0024	1.1%	0.8%	0.0005	0.0016	0.0318	0.0288	0.0251
%RSD		4.4376	1.2	0.9	4.5634	14.1875	1.2199	1.1285	0.9768

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	15:27:44	90.6%	0.0136	0.5617	0.1094	0.1410	0.7625	85.3%	1.1917
2	15:28:30	92.6%	0.0126	0.5581	0.3396	0.1496	0.8296	85.6%	1.1134
3	15:29:16	93.3%	0.0132	0.5425	0.5199	0.1452	0.7152	85.0%	0.8624
x		92.2%	0.0131	0.5541	0.3230	0.1453	0.7691	85.3%	1.0558
σ		1.4%	0.0005	0.0102	0.2057	0.0043	0.0575	0.3%	0.1720
%RSD		1.5	3.6164	1.8443	63.6966	2.9635	7.4712	0.4	16.2910
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	15:27:44	0.6839	0.5381	1.5637	1.7588	1.6424	90.5%	37.9890	-0.5440
2	15:28:30	0.6816	0.5314	1.6095	1.6563	1.7023	90.8%	38.6775	0.1421
3	15:29:16	0.6849	0.5323	1.6136	1.6725	1.6084	91.0%	37.8197	-0.1597
x		0.6835	0.5339	1.5956	1.6959	1.6510	90.7%	38.1621	-0.1872
σ		0.0017	0.0036	0.0277	0.0551	0.0476	0.3%	0.4543	0.3439
%RSD		0.2429	0.6794	1.7354	3.2473	2.8801	0.3	1.1905	183.6826
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	15:27:44	-0.2139	0.2606	4.7938	4.8175	4.7354	-0.0459	-0.0420	0.0137
2	15:28:30	-0.2339	0.3973	4.7552	4.7968	4.8371	-0.0369	-0.0372	0.0234
3	15:29:16	0.2126	0.2590	4.7623	4.8038	4.7517	-0.0428	-0.0387	0.0262
x		-0.0784	0.3056	4.7704	4.8060	4.7747	-0.0419	-0.0393	0.0211
σ		0.2522	0.0794	0.0205	0.0105	0.0546	0.0046	0.0024	0.0066
%RSD		321.6720	25.9709	0.4306	0.2192	1.1443	10.8970	6.2020	31.2752
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	15:27:44	0.0032	92.3%	95.8%	0.0061	0.0044	0.5220	0.5023	0.5111
2	15:28:30	0.0051	92.1%	96.9%	0.0066	0.0055	0.5209	0.5128	0.5149
3	15:29:16	0.0071	92.4%	97.4%	0.0060	0.0047	0.5106	0.5008	0.5021
x		0.0052	92.3%	96.7%	0.0063	0.0049	0.5178	0.5053	0.5094
σ		0.0020	0.2%	0.8%	0.0003	0.0006	0.0063	0.0066	0.0066
%RSD		38.2645	0.2	0.9	5.0190	11.5823	1.2157	1.2992	1.2955

K1405818-002A 6/19/2014 3:31:48 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	52Cr	53Cr	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:31:48	89.2%	48.5384	49.2112	48.5947	47.0801	57.6936	74.0%	59.6875
2	15:32:34	86.7%	52.2887	52.6644	53.1901	50.6324	57.8781	77.6%	59.9696
3	15:33:20	88.0%	51.4608	51.7216	52.0893	49.3507	57.6108	77.2%	60.0303
x		88.0%	50.7626	51.1990	51.2914	49.0210	57.7275	76.3%	59.8958
σ		1.3%	1.9702	1.7849	2.3994	1.7989	0.1369	2.0%	0.1829
%RSD		1.4	3.8812	3.4862	4.6779	3.6697	0.2371	2.6	0.3054
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:31:48	47.4452	46.9530	52.2678	51.7867	52.0966	90.4%	225.4661	47.2213
2	15:32:34	50.4375	50.4332	55.9819	57.2423	55.9885	88.6%	241.4468	51.9808
3	15:33:20	49.6592	48.8503	54.7587	54.5546	54.6854	90.1%	237.8305	49.5293
x		49.1806	48.7455	54.3361	54.5279	54.2568	89.7%	234.9144	49.5771
σ		1.5525	1.7425	1.8928	2.7279	1.9810	1.0%	8.3799	2.3801
%RSD		3.1567	3.5746	3.4835	5.0027	3.6512	1.1	3.5672	4.8008
Run	Time	78Se	82Se	95Mo	97Mo	98Mo	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:31:48	46.6717	48.6597	69.0945	68.8793	68.9899	15.9074	15.9120	45.2293
2	15:32:34	50.8903	51.1400	73.9294	74.1564	73.7122	17.1111	16.8749	48.6419
3	15:33:20	48.5352	50.0800	72.2415	72.6786	72.5854	16.6255	16.6591	47.8790
x		48.6990	49.9599	71.7552	71.9048	71.7625	16.5480	16.4820	47.2501
σ		2.1141	1.2445	2.4539	2.7224	2.4663	0.6056	0.5053	1.7911
%RSD		4.3411	2.4910	3.4198	3.7861	3.4368	3.6595	3.0657	3.7906
Run	Time	114Cd	115In	175Lu	203Tl	205Tl	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:31:48	46.4978	92.7%	95.7%	44.8521	44.8612	46.7607	46.4056	46.7347
2	15:32:34	49.9515	91.6%	94.4%	48.2730	48.4939	50.0468	49.7650	50.1927
3	15:33:20	48.8854	92.8%	95.4%	47.1427	47.0764	49.0889	48.6254	48.8174
x		48.4449	92.3%	95.2%	46.7559	46.8105	48.6322	48.2653	48.5816
σ		1.7685	0.7%	0.7%	1.7429	1.8309	1.6900	1.7084	1.7410
%RSD		3.6505	0.7	0.7	3.7277	3.9114	3.4750	3.5395	3.5837

K1405818-002S 6/19/2014 3:38:06 PM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	15:38:06	84.4%	18.3799	21.6212	21.6125	18.8243	23.9511	76.0%	24.8862
2	15:38:52	85.0%	18.5655	21.5944	21.8523	18.8869	23.5169	77.0%	24.9848
3	15:39:38	88.5%	18.1982	21.4004	21.6698	18.6949	23.6667	77.5%	25.3561
x		86.0%	18.3812	21.5387	21.7115	18.8020	23.7116	76.8%	25.0757
σ		2.3%	0.1836	0.1205	0.1252	0.0979	0.2205	0.7%	0.2478
%RSD		2.6	0.9990	0.5594	0.5767	0.5209	0.9301	0.9	0.9881
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	15:38:06	20.9869	20.5454	24.6006	24.4744	24.3707	86.4%	207.7053	19.4129
2	15:38:52	20.9818	20.2931	24.7705	24.4054	24.2719	87.4%	207.6318	19.0744
3	15:39:38	20.9305	20.1293	24.5066	24.2866	23.8327	88.2%	205.1195	19.0897
x		20.9664	20.3226	24.6259	24.3888	24.1584	87.3%	206.8189	19.1923
σ		0.0312	0.2096	0.1338	0.0950	0.2864	0.9%	1.4722	0.1911
%RSD		0.1489	1.0314	0.5432	0.3895	1.1854	1.1	0.7118	0.9960
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	15:38:06	19.3522	19.7690	28.4059	28.9243	28.8207	17.1546	17.2655	18.5437
2	15:38:52	19.0666	19.6633	28.7976	28.8458	28.6728	17.3678	17.5501	18.5959
3	15:39:38	19.1210	18.8848	28.3719	28.7453	28.6113	17.3633	17.3472	18.3322
x		19.1799	19.4390	28.5251	28.8385	28.7016	17.2952	17.3876	18.4906
σ		0.1517	0.4829	0.2366	0.0897	0.1076	0.1218	0.1465	0.1396
%RSD		0.7907	2.4840	0.8294	0.3111	0.3748	0.7042	0.8428	0.7552
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	15:38:06	18.2941	87.2%	91.4%	17.9011	17.2869	20.8439	20.6660	20.6949
2	15:38:52	18.3233	88.4%	93.2%	18.0230	17.2327	20.6573	20.3479	20.5557
3	15:39:38	17.9023	88.9%	93.0%	17.8776	17.3667	20.7249	20.3688	20.4574
x		18.1732	88.1%	92.5%	17.9339	17.2954	20.7420	20.4609	20.5693
σ		0.2351	0.9%	0.9%	0.0781	0.0674	0.0945	0.1779	0.1194
%RSD		1.2934	1.0	1.0	0.4353	0.3898	0.4555	0.8695	0.5803

K1405818-002SD 6/19/2014 3:44:53 PM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	15:44:53	85.5%	17.7610	20.7272	21.5335	18.1213	23.8150	73.3%	24.9676
2	15:45:39	86.9%	17.8372	20.9765	21.3129	18.2356	23.4856	75.1%	24.7064
3	15:46:25	88.3%	17.6500	20.7236	21.0980	18.0959	23.9804	74.9%	25.7154
x		86.9%	17.7494	20.8091	21.3148	18.1509	23.7603	74.4%	25.1298
σ		1.4%	0.0941	0.1450	0.2177	0.0744	0.2519	1.0%	0.5237
%RSD		1.7	0.5304	0.6969	1.0216	0.4098	1.0602	1.3	2.0840
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	15:44:53	20.3042	19.6334	24.2703	24.1475	23.6644	86.5%	196.8483	18.6072
2	15:45:39	20.5881	19.6548	24.2528	24.0129	23.7449	87.1%	198.8966	18.9415
3	15:46:25	20.2087	19.8108	24.2944	23.9919	23.4646	88.4%	197.3458	19.0513
x		20.3670	19.6997	24.2725	24.0507	23.6247	87.3%	197.6969	18.8666
σ		0.1974	0.0968	0.0209	0.0844	0.1443	1.0%	1.0683	0.2313
%RSD		0.9690	0.4915	0.0862	0.3510	0.6109	1.1	0.5404	1.2260
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	15:44:53	18.5405	18.6963	28.4886	28.5908	28.3397	16.6856	16.7714	17.7947
2	15:45:39	19.1681	19.4276	28.1748	28.2642	28.1989	16.5609	16.6551	17.7693
3	15:46:25	18.8511	19.3485	28.3287	28.4290	28.7020	16.8103	16.7716	17.7354
x		18.8533	19.1575	28.3307	28.4280	28.4136	16.6856	16.7327	17.7665
σ		0.3138	0.4013	0.1569	0.1633	0.2595	0.1247	0.0672	0.0297
%RSD		1.6645	2.0948	0.5539	0.5745	0.9135	0.7472	0.4014	0.1673
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	15:44:53	17.5494	86.6%	91.8%	17.5661	16.6882	19.9058	19.6799	19.6992
2	15:45:39	17.5855	88.9%	93.3%	17.2888	16.7621	19.7786	19.7245	19.6584
3	15:46:25	17.7083	89.0%	93.6%	17.2379	16.8106	19.8504	19.4322	19.6007
x		17.6144	88.2%	92.9%	17.3642	16.7536	19.8449	19.6122	19.6528
σ		0.0833	1.3%	0.9%	0.1766	0.0616	0.0638	0.1575	0.0495
%RSD		0.4729	1.5	1.0	1.0172	0.3679	0.3214	0.8029	0.2518

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	15:51:35	89.5%	26.6809	26.5323	25.7157	26.4667	25.0801	90.7%	25.6709
2	15:52:21	92.8%	25.6565	25.6933	25.2206	25.6774	25.2245	90.0%	25.6120
3	15:53:07	93.7%	25.2762	24.9886	23.7273	25.1539	25.3512	88.5%	25.3107
x		92.0%	25.8712	25.7381	24.8879	25.7660	25.2186	89.7%	25.5312
σ		2.2%	0.7266	0.7728	1.0351	0.6609	0.1356	1.1%	0.1932
%RSD		2.4	2.8084	3.0026	4.1590	2.5649	0.5378	1.2	0.7567
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	15:51:35	26.4342	26.4128	26.2889	26.7950	26.2959	86.5%	26.1079	26.0014
2	15:52:21	25.5453	25.8170	25.6554	25.8179	25.2388	88.4%	25.9208	24.9537
3	15:53:07	24.9634	25.0680	25.2786	25.0832	24.8678	89.1%	24.7343	25.1877
x		25.6476	25.7659	25.7409	25.8987	25.4675	88.0%	25.5877	25.3809
σ		0.7407	0.6738	0.5106	0.8587	0.7410	1.4%	0.7449	0.5499
%RSD		2.8881	2.6153	1.9835	3.3157	2.9096	1.5	2.9112	2.1667
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	15:51:35	26.1018	25.8765	26.2538	26.5196	26.2648	26.2911	26.3920	26.4316
2	15:52:21	25.2377	25.7592	25.4957	25.8402	25.6426	25.4789	25.6777	25.4524
3	15:53:07	24.5584	24.8787	24.8789	25.2104	25.0661	25.0009	25.1121	25.2901
x		25.2993	25.5048	25.5428	25.8568	25.6578	25.5903	25.7273	25.7247
σ		0.7736	0.5454	0.6886	0.6547	0.5995	0.6523	0.6414	0.6176
%RSD		3.0577	2.1382	2.6960	2.5322	2.3365	2.5490	2.4930	2.4007
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	15:51:35	26.2030	88.1%	92.4%	27.1780	26.4391	26.4903	26.2004	26.3305
2	15:52:21	25.5626	90.8%	95.1%	26.2100	25.6115	25.6208	25.4842	25.4708
3	15:53:07	24.9150	91.5%	95.6%	25.6277	25.0928	25.0263	24.9238	25.0378
x		25.5602	90.1%	94.4%	26.3386	25.7145	25.7124	25.5361	25.6130
σ		0.6440	1.8%	1.7%	0.7831	0.6791	0.7363	0.6399	0.6580
%RSD		2.5194	2.0	1.8	2.9733	2.6407	2.8635	2.5057	2.5689

CCB2 6/19/2014 3:58:26 PM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	15:58:26	90.1%	0.0027	-0.0529	-1.0050	0.0017	0.1004	86.1%	-0.0443
2	15:59:12	94.3%	0.0007	-0.0323	-0.9750	0.0054	0.0812	86.7%	0.5299
3	15:59:58	95.0%	0.0031	-0.0570	-1.0912	0.0005	0.0294	87.5%	-0.0172
x		93.1%	0.0022	-0.0474	-1.0237	0.0026	0.0704	86.7%	0.1561
σ		2.6%	0.0013	0.0133	0.0603	0.0026	0.0367	0.7%	0.3240
%RSD		2.8	60.0265	27.9549	5.8941	100.8367	52.1964	0.8	207.5170
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	15:58:26	0.0019	-0.0075	0.0079	-0.0945	0.0297	86.6%	-0.1188	-0.0584
2	15:59:12	-0.0026	0.0069	-0.0006	-0.0942	0.0014	88.0%	-0.0871	-0.1847
3	15:59:58	-0.0009	-0.0023	0.0006	-0.0931	0.0028	87.5%	-0.1991	0.4679
x		-0.0006	-0.0010	0.0026	-0.0940	0.0113	87.4%	-0.1350	0.0749
σ		0.0023	0.0073	0.0046	0.0007	0.0159	0.7%	0.0577	0.3461
%RSD		405.7688	755.7861	174.5325	0.7792	140.6855	0.8	42.7705	461.9032
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	15:58:26	-0.6465	-0.0868	-0.0017	0.0410	0.0452	0.0045	0.0025	0.0099
2	15:59:12	-0.5355	-0.1853	0.0014	0.0307	0.0534	0.0025	0.0009	0.0170
3	15:59:58	-0.6200	-0.1789	-0.0036	0.0315	0.0418	-0.0002	0.0031	0.0176
x		-0.6007	-0.1503	-0.0013	0.0344	0.0468	0.0023	0.0021	0.0148
σ		0.0580	0.0551	0.0026	0.0057	0.0060	0.0024	0.0011	0.0043
%RSD		9.6527	36.6656	198.8702	16.6805	12.8165	106.0610	53.3780	28.9895
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	15:58:26	0.0057	88.0%	92.3%	0.0325	0.0263	-0.0010	0.0036	0.0015
2	15:59:12	0.0038	88.6%	93.4%	0.0265	0.0273	0.0016	-0.0002	0.0008
3	15:59:58	0.0060	89.0%	93.2%	0.0295	0.0257	0.0012	0.0010	0.0015
x		0.0052	88.6%	93.0%	0.0295	0.0264	0.0006	0.0015	0.0013
σ		0.0012	0.5%	0.6%	0.0030	0.0008	0.0014	0.0019	0.0004
%RSD		23.7792	0.6	0.6	10.1107	3.2059	245.6889	129.9788	34.1457

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	16:03:08	91.3%	0.2211	2.0058	0.9342	0.2107	2.0894	85.0%	2.1715
2	16:03:53	93.5%	0.2040	1.7771	0.4753	0.1988	2.0002	83.5%	2.4816
3	16:04:39	95.1%	0.2062	1.9130	0.9076	0.2090	2.1385	84.9%	2.0896
x		93.3%	0.2105	1.8986	0.7724	0.2061	2.0760	84.5%	2.2475
σ		1.9%	0.0093	0.1150	0.2576	0.0064	0.0701	0.8%	0.2068
%RSD		2.0	4.4300	6.0595	33.3571	3.1287	3.3783	1.0	9.2000
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	16:03:08	1.0472	1.0693	5.1128	4.9159	4.9879	85.0%	5.2303	9.6675
2	16:03:53	0.9769	0.9564	4.8462	4.6424	4.7719	88.5%	5.0636	8.9307
3	16:04:39	1.0098	0.9937	5.0306	4.5915	4.7652	87.4%	4.9799	9.5567
x		1.0113	1.0065	4.9965	4.7166	4.8417	87.0%	5.0913	9.3850
σ		0.0352	0.0575	0.1366	0.1745	0.1266	1.8%	0.1275	0.3973
%RSD		3.4782	5.7164	2.7333	3.6997	2.6157	2.1	2.5034	4.2333
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	16:03:08	9.7831	10.1184	0.4820	0.5323	0.5206	0.1274	0.1370	0.2259
2	16:03:53	8.8613	9.6938	0.4424	0.4874	0.4867	0.1406	0.1372	0.1735
3	16:04:39	8.9908	9.7697	0.4611	0.5142	0.5086	0.1475	0.1431	0.2163
x		9.2117	9.8606	0.4619	0.5113	0.5053	0.1385	0.1391	0.2052
σ		0.4991	0.2264	0.0198	0.0226	0.0172	0.0102	0.0035	0.0279
%RSD		5.4177	2.2964	4.2862	4.4183	3.4065	7.3753	2.4896	13.5851
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	16:03:08	0.2170	85.2%	89.9%	0.2531	0.2256	0.2180	0.2181	0.2220
2	16:03:53	0.2102	90.4%	95.1%	0.2204	0.2148	0.2047	0.2161	0.2114
3	16:04:39	0.2000	90.2%	94.0%	0.2326	0.2244	0.2196	0.2141	0.2182
x		0.2090	88.6%	93.0%	0.2354	0.2216	0.2141	0.2161	0.2172
σ		0.0086	2.9%	2.7%	0.0165	0.0059	0.0082	0.0020	0.0054
%RSD		4.0984	3.3	2.9	7.0205	2.6628	3.8327	0.9092	2.4792

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	52Cr	53Cr	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:07:54	86.8%	0.0967	3.7288	3.4027	1.2792	5.1987	74.8%	6.1197
2	16:08:40	87.6%	0.1077	3.6543	3.0244	1.2488	5.1353	76.5%	6.4999
3	16:09:26	88.5%	0.0928	3.6589	3.1071	1.2632	5.3182	76.8%	6.5304
x		87.6%	0.0990	3.6807	3.1780	1.2637	5.2174	76.0%	6.3833
σ		0.8%	0.0077	0.0418	0.1989	0.0152	0.0929	1.0%	0.2288
%RSD		1.0	7.7745	1.1347	6.2586	1.2032	1.7802	1.4	3.5847
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:07:54	9.2187	8.4272	10.9716	10.5021	10.4806	82.6%	15.5766	0.9933
2	16:08:40	9.1942	8.4231	11.0876	10.4935	10.5978	84.9%	16.0001	0.5181
3	16:09:26	9.2779	8.4624	11.0318	10.2733	10.5152	85.7%	15.5530	1.0497
x		9.2302	8.4376	11.0303	10.4230	10.5312	84.4%	15.7099	0.8537
σ		0.0430	0.0216	0.0580	0.1297	0.0602	1.6%	0.2516	0.2920
%RSD		0.4660	0.2557	0.5262	1.2444	0.5718	1.9	1.6015	34.2046
Run	Time	78Se	82Se	95Mo	97Mo	98Mo	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:07:54	0.3108	1.1124	13.0334	13.0585	13.0407	0.0014	-0.0010	0.1785
2	16:08:40	0.3066	1.4190	12.7994	12.8834	12.9148	0.0032	0.0011	0.1922
3	16:09:26	0.8657	1.0341	12.9473	13.0297	12.9423	0.0106	0.0079	0.1894
x		0.4944	1.1885	12.9267	12.9905	12.9659	0.0051	0.0027	0.1867
σ		0.3216	0.2034	0.1184	0.0939	0.0662	0.0048	0.0047	0.0073
%RSD		65.0452	17.1155	0.9157	0.7228	0.5105	95.6890	175.7823	3.8876
Run	Time	114Cd	115In	175Lu	203Tl	205Tl	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:07:54	0.1458	83.3%	89.7%	0.1588	0.1398	1.6762	1.5939	1.6373
2	16:08:40	0.1593	85.6%	91.3%	0.1618	0.1459	1.6886	1.6105	1.6395
3	16:09:26	0.1532	86.1%	91.5%	0.1551	0.1433	1.6339	1.6196	1.6358
x		0.1528	85.0%	90.8%	0.1586	0.1430	1.6662	1.6080	1.6375
σ		0.0068	1.5%	1.0%	0.0034	0.0031	0.0287	0.0130	0.0019
%RSD		4.4412	1.8	1.1	2.1175	2.1531	1.7221	0.8110	0.1154

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	52Cr	53Cr	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:32	84.9%	0.0796	4.1571	4.6331	0.8536	4.2311	65.4%	5.8662
2	16:13:18	84.6%	0.0841	4.0254	4.7623	0.8642	4.0742	66.4%	5.4011
3	16:14:04	85.0%	0.0885	4.1074	4.5625	0.8436	4.0695	67.2%	4.9251
x		84.8%	0.0841	4.0966	4.6526	0.8538	4.1249	66.3%	5.3975
σ		0.2%	0.0044	0.0665	0.1013	0.0103	0.0919	0.9%	0.4705
%RSD		0.2	5.2548	1.6239	2.1778	1.2054	2.2289	1.4	8.7177
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:32	3.3741	2.6374	5.7922	6.8446	6.4573	82.6%	302.8652	1.4086
2	16:13:18	3.3821	2.5517	5.6247	6.9524	6.6459	83.7%	300.3105	1.2739
3	16:14:04	3.3378	2.5429	5.9770	6.8424	6.3876	84.1%	301.8885	1.4668
x		3.3647	2.5773	5.7980	6.8798	6.4969	83.5%	301.6881	1.3831
σ		0.0236	0.0522	0.1762	0.0629	0.1336	0.8%	1.2891	0.0989
%RSD		0.7008	2.0257	3.0395	0.9137	2.0569	0.9	0.4273	7.1523
Run	Time	78Se	82Se	95Mo	97Mo	98Mo	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:32	0.8050	2.0257	20.3196	20.5112	20.3269	0.0193	0.0164	0.1069
2	16:13:18	0.9723	2.0733	20.4125	20.4156	20.4501	0.0299	0.0197	0.0767
3	16:14:04	0.8962	2.1083	20.4564	20.6611	20.5803	0.0222	0.0230	0.0824
x		0.8912	2.0691	20.3962	20.5293	20.4524	0.0238	0.0197	0.0887
σ		0.0838	0.0415	0.0699	0.1237	0.1267	0.0055	0.0033	0.0160
%RSD		9.4018	2.0039	0.3425	0.6028	0.6195	22.8918	16.6567	18.0787
Run	Time	114Cd	115In	175Lu	203Tl	205Tl	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:32	0.0471	84.3%	88.6%	0.0273	0.0220	0.9660	0.9300	0.9354
2	16:13:18	0.0495	85.4%	90.0%	0.0244	0.0231	0.9493	0.9327	0.9388
3	16:14:04	0.0391	85.2%	89.8%	0.0253	0.0212	0.9607	0.9481	0.9364
x		0.0452	85.0%	89.5%	0.0257	0.0221	0.9587	0.9369	0.9369
σ		0.0054	0.6%	0.8%	0.0015	0.0010	0.0085	0.0098	0.0018
%RSD		11.9844	0.7	0.8	5.9388	4.3974	0.8874	1.0417	0.1878

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	52Cr	53Cr	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:00	83.7%	0.0920	4.3301	6.1007	0.6136	4.1124	62.0%	5.0259
2	16:17:46	84.7%	0.0950	4.3335	6.0647	0.6422	4.1466	62.1%	5.7870
3	16:18:31	85.6%	0.0899	4.2265	5.9614	0.6206	4.1005	61.8%	5.7181
x		84.6%	0.0923	4.2967	6.0423	0.6255	4.1198	62.0%	5.5103
σ		1.0%	0.0026	0.0608	0.0723	0.0149	0.0240	0.1%	0.4210
%RSD		1.1	2.7834	1.4159	1.1965	2.3888	0.5816	0.2	7.6394
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:00	3.8664	2.9852	6.5591	7.5857	7.0814	81.3%	248.4143	1.8416
2	16:17:46	3.8257	3.0122	6.6995	7.5311	7.1224	82.0%	248.8502	2.3031
3	16:18:31	3.7886	2.9479	6.7677	7.6006	7.0363	82.9%	247.8877	1.9703
x		3.8269	2.9818	6.6754	7.5725	7.0800	82.1%	248.3840	2.0384
σ		0.0389	0.0323	0.1064	0.0366	0.0431	0.8%	0.4820	0.2381
%RSD		1.0178	1.0824	1.5937	0.4837	0.6085	0.9	0.1940	11.6821
Run	Time	78Se	82Se	95Mo	97Mo	98Mo	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:00	0.7128	1.9503	21.6356	21.7706	21.6960	-0.0122	-0.0149	0.0880
2	16:17:46	0.8439	2.2543	21.5388	21.4557	21.5314	-0.0174	-0.0113	0.0719
3	16:18:31	0.7803	1.8234	21.4777	21.5954	21.6753	-0.0083	-0.0139	0.0884
x		0.7790	2.0093	21.5507	21.6072	21.6342	-0.0126	-0.0134	0.0828
σ		0.0655	0.2214	0.0796	0.1578	0.0897	0.0046	0.0019	0.0094
%RSD		8.4138	11.0205	0.3695	0.7303	0.4146	36.2259	13.9989	11.3665
Run	Time	114Cd	115In	175Lu	203Tl	205Tl	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:00	0.0495	82.0%	87.4%	0.0121	0.0144	1.0129	0.9556	0.9872
2	16:17:46	0.0482	83.7%	88.6%	0.0145	0.0150	1.0253	0.9936	1.0053
3	16:18:31	0.0465	84.0%	88.4%	0.0169	0.0134	1.0353	0.9976	1.0022
x		0.0480	83.2%	88.1%	0.0145	0.0143	1.0245	0.9823	0.9982
σ		0.0015	1.1%	0.6%	0.0024	0.0008	0.0112	0.0232	0.0097
%RSD		3.1071	1.3	0.7	16.5825	5.7707	1.0923	2.3595	0.9693

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	16:21:14	87.9%	0.0167	1.6541	2.1086	0.1823	2.1347	66.7%	3.7824
2	16:22:00	89.5%	0.0125	1.6445	2.2836	0.1691	2.0801	67.5%	4.2747
3	16:22:46	90.9%	0.0091	1.6142	2.2738	0.1825	1.8961	68.2%	3.9449
x		89.4%	0.0128	1.6376	2.2220	0.1779	2.0370	67.5%	4.0006
σ		1.5%	0.0038	0.0208	0.0984	0.0077	0.1250	0.8%	0.2508
%RSD		1.7	29.9695	1.2730	4.4264	4.3158	6.1377	1.2	6.2697
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	16:21:14	3.0916	1.9845	2.2963	2.4210	2.1734	80.6%	9.7510	0.5376
2	16:22:00	3.1823	1.9198	2.2595	2.2480	2.3572	82.3%	9.8483	0.5492
3	16:22:46	3.0922	1.9119	2.2053	2.2521	2.1531	82.9%	9.7340	0.4459
x		3.1221	1.9387	2.2537	2.3070	2.2279	82.0%	9.7778	0.5109
σ		0.0522	0.0399	0.0458	0.0987	0.1124	1.2%	0.0617	0.0566
%RSD		1.6716	2.0559	2.0317	4.2793	5.0456	1.4	0.6308	11.0777
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	16:21:14	0.2277	1.0697	14.1923	14.0029	14.0561	-0.0079	-0.0077	0.1114
2	16:22:00	0.3530	0.7442	13.8461	14.0693	14.0730	0.0008	-0.0058	0.1366
3	16:22:46	0.2949	0.9943	14.0586	14.1510	14.1993	-0.0003	-0.0003	0.1089
x		0.2919	0.9361	14.0323	14.0744	14.1095	-0.0025	-0.0046	0.1189
σ		0.0627	0.1704	0.1746	0.0742	0.0782	0.0047	0.0038	0.0153
%RSD		21.4868	18.2011	1.2441	0.5271	0.5543	189.6030	83.4634	12.8680
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	16:21:14	0.0869	81.8%	86.5%	0.1210	0.1169	0.1266	0.1105	0.1180
2	16:22:00	0.0796	83.7%	88.6%	0.1219	0.1154	0.1183	0.1140	0.1162
3	16:22:46	0.0658	83.5%	88.7%	0.1227	0.1193	0.1238	0.1133	0.1162
x		0.0775	83.0%	87.9%	0.1219	0.1172	0.1229	0.1126	0.1168
σ		0.0107	1.1%	1.2%	0.0008	0.0020	0.0042	0.0019	0.0011
%RSD		13.8736	1.3	1.4	0.6819	1.6921	3.4516	1.6693	0.9013

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	16:25:22	87.9%	0.4364	29.2739	31.3717	3.8999	29.4173	78.7%	30.9875
2	16:26:08	89.4%	0.4227	28.8790	31.3859	3.8437	29.5859	79.5%	30.5960
3	16:26:54	90.2%	0.4119	28.3996	31.3771	3.8025	29.4107	79.3%	31.1738
x		89.2%	0.4237	28.8508	31.3782	3.8487	29.4713	79.2%	30.9191
σ		1.2%	0.0122	0.4378	0.0072	0.0489	0.0993	0.4%	0.2949
%RSD		1.4	2.8912	1.5176	0.0228	1.2708	0.3370	0.5	0.9538
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	16:25:22	1.9025	1.9492	3.2604	30.5599	22.4387	87.6%	2.0779	0.7115
2	16:26:08	1.8513	1.9170	3.1303	30.1497	22.6491	88.9%	2.0906	0.7237
3	16:26:54	1.8188	1.9200	3.2042	29.7679	22.2603	90.1%	1.9380	0.7730
x		1.8575	1.9287	3.1983	30.1591	22.4493	88.9%	2.0355	0.7361
σ		0.0422	0.0178	0.0653	0.3961	0.1946	1.2%	0.0847	0.0326
%RSD		2.2713	0.9217	2.0405	1.3134	0.8669	1.4	4.1594	4.4288
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	16:25:22	0.4741	1.3309	1.2955	1.3410	1.3135	0.0285	0.0048	0.1521
2	16:26:08	0.6964	1.2130	1.3067	1.3611	1.3497	0.0248	0.0032	0.1432
3	16:26:54	0.4955	1.1072	1.3010	1.3813	1.3217	0.0306	0.0122	0.1374
x		0.5553	1.2170	1.3011	1.3611	1.3283	0.0279	0.0067	0.1442
σ		0.1226	0.1119	0.0056	0.0202	0.0189	0.0029	0.0048	0.0074
%RSD		22.0781	9.1984	0.4315	1.4805	1.4260	10.4748	71.2541	5.1559
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	16:25:22	0.1104	88.6%	89.6%	0.0168	0.0161	0.1132	0.1091	0.1118
2	16:26:08	0.1107	89.6%	90.7%	0.0178	0.0167	0.1143	0.1147	0.1168
3	16:26:54	0.1144	90.1%	91.4%	0.0184	0.0177	0.1084	0.1125	0.1105
x		0.1119	89.4%	90.6%	0.0177	0.0168	0.1120	0.1121	0.1130
σ		0.0022	0.8%	0.9%	0.0008	0.0008	0.0032	0.0028	0.0034
%RSD		1.9902	0.9	1.0	4.5680	4.7988	2.8223	2.5257	2.9764

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	16:29:40	89.6%	0.3634	23.9711	35.4165	1.7160	32.7851	81.9%	34.6137
2	16:30:26	88.5%	0.3820	23.8482	35.1129	1.7352	32.7649	81.7%	33.8197
3	16:31:11	86.3%	0.4242	26.3968	38.8418	1.9405	32.8200	85.1%	34.0331
x		88.1%	0.3899	24.7387	36.4570	1.7972	32.7900	82.9%	34.1555
σ		1.7%	0.0311	1.4373	2.0708	0.1244	0.0279	1.9%	0.4109
%RSD		1.9	7.9796	5.8100	5.6801	6.9244	0.0851	2.3	1.2030
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	16:29:40	1.4566	1.4174	9.6077	18.8003	14.9864	88.3%	1.3722	0.7171
2	16:30:26	1.4178	1.4164	9.6557	19.2013	14.9995	88.6%	1.3162	0.9630
3	16:31:11	1.5864	1.5543	10.6067	20.9985	16.5581	83.7%	1.3546	2.0727
x		1.4869	1.4627	9.9567	19.6667	15.5147	86.9%	1.3477	1.2509
σ		0.0883	0.0793	0.5634	1.1707	0.9036	2.7%	0.0286	0.7222
%RSD		5.9392	5.4218	5.6585	5.9526	5.8244	3.2	2.1242	57.7338
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	16:29:40	0.5734	0.9181	0.5398	0.5966	0.6002	0.0062	-0.0161	0.1233
2	16:30:26	0.6957	0.6892	0.5545	0.6149	0.6096	-0.0015	-0.0114	0.1099
3	16:31:11	0.6486	0.7985	0.6028	0.6936	0.6460	0.0199	0.0017	0.1257
x		0.6392	0.8019	0.5657	0.6350	0.6186	0.0082	-0.0086	0.1196
σ		0.0617	0.1145	0.0330	0.0516	0.0242	0.0109	0.0092	0.0085
%RSD		9.6532	14.2779	5.8279	8.1188	3.9078	132.9252	107.3678	7.1206
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	16:29:40	0.0642	87.1%	88.0%	0.0106	0.0090	0.1245	0.1209	0.1258
2	16:30:26	0.0605	88.6%	89.1%	0.0099	0.0093	0.1265	0.1186	0.1224
3	16:31:11	0.0680	83.9%	85.2%	0.0107	0.0108	0.1451	0.1354	0.1379
x		0.0642	86.5%	87.5%	0.0104	0.0097	0.1321	0.1250	0.1287
σ		0.0037	2.4%	2.0%	0.0004	0.0010	0.0113	0.0091	0.0082
%RSD		5.8331	2.8	2.3	4.3241	9.8680	8.5929	7.3206	6.3490

K1405556-018 6/19/2014 4:33:52 PM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	16:33:52	86.2%	0.4045	25.4733	37.4680	1.7376	33.3444	76.5%	33.9131
2	16:34:38	87.7%	0.3789	25.3219	36.9003	1.7294	33.3442	76.9%	34.4408
3	16:35:24	88.3%	0.4093	25.1970	35.9372	1.6918	33.5630	76.3%	34.3606
x		87.4%	0.3976	25.3307	36.7685	1.7196	33.4172	76.6%	34.2382
σ		1.1%	0.0163	0.1383	0.7739	0.0244	0.1263	0.3%	0.2844
%RSD		1.2	4.1094	0.5462	2.1048	1.4188	0.3779	0.4	0.8306
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	16:33:52	1.2749	1.2800	9.8334	18.7332	14.8406	84.7%	1.2990	1.2399
2	16:34:38	1.2643	1.2324	9.7621	19.0952	15.0666	84.8%	1.2314	1.9687
3	16:35:24	1.2086	1.1988	9.6641	18.5038	14.5649	85.4%	1.2390	2.2098
x		1.2493	1.2371	9.7532	18.7774	14.8240	85.0%	1.2564	1.8061
σ		0.0356	0.0408	0.0850	0.2982	0.2513	0.4%	0.0370	0.5050
%RSD		2.8522	3.3010	0.8713	1.5879	1.6949	0.4	2.9462	27.9602
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	16:33:52	0.2804	0.6560	0.4867	0.5806	0.5582	-0.0074	-0.0233	0.1099
2	16:34:38	0.2335	0.7581	0.5241	0.5500	0.5634	-0.0031	-0.0189	0.0931
3	16:35:24	0.3663	0.8113	0.5322	0.5623	0.5517	-0.0126	-0.0196	0.0956
x		0.2934	0.7418	0.5143	0.5643	0.5578	-0.0077	-0.0206	0.0996
σ		0.0673	0.0789	0.0242	0.0154	0.0059	0.0047	0.0024	0.0091
%RSD		22.9487	10.6393	4.7122	2.7339	1.0526	61.6602	11.4836	9.1092
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	16:33:52	0.0506	85.3%	86.6%	0.0070	0.0060	0.1078	0.1043	0.1036
2	16:34:38	0.0586	85.6%	88.2%	0.0068	0.0070	0.1039	0.1014	0.1014
3	16:35:24	0.0518	86.1%	87.9%	0.0068	0.0073	0.1023	0.0940	0.0982
x		0.0537	85.7%	87.5%	0.0069	0.0067	0.1047	0.0999	0.1011
σ		0.0043	0.4%	0.8%	0.0001	0.0007	0.0028	0.0053	0.0027
%RSD		7.9948	0.5	0.9	1.2478	10.0368	2.6800	5.3294	2.6817

K1405721-001 6/19/2014 4:38:03 PM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	16:38:03	86.5%	0.0022	2.1337	5.4846	7.6773	14.8711	69.4%	15.4794
2	16:38:49	85.4%	0.0063	2.0924	3.7860	7.5849	14.7961	68.6%	15.9251
3	16:39:35	85.2%	0.0050	2.2667	3.0609	7.6175	14.7533	68.0%	16.1399
x		85.7%	0.0045	2.1643	4.1105	7.6266	14.8068	68.7%	15.8482
σ		0.7%	0.0021	0.0911	1.2440	0.0468	0.0596	0.7%	0.3369
%RSD		0.8	46.8048	4.2089	30.2637	0.6143	0.4027	1.0	2.1259
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	16:38:03	1.9108	1.3594	13.9851	13.2347	13.1867	74.4%	1.8730	0.1599
2	16:38:49	1.8484	1.3104	14.0178	13.2204	13.3220	74.3%	1.8001	0.5925
3	16:39:35	1.8462	1.2840	13.8923	13.2827	13.4325	74.0%	1.9377	0.0104
x		1.8685	1.3179	13.9650	13.2459	13.3137	74.2%	1.8703	0.2543
σ		0.0367	0.0383	0.0651	0.0327	0.1231	0.2%	0.0688	0.3023
%RSD		1.9635	2.9044	0.4660	0.2465	0.9249	0.3	3.6803	118.8874
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	16:38:03	-0.2475	0.4485	1.6473	1.6661	1.6913	-0.0079	-0.0132	0.1027
2	16:38:49	-0.1919	0.4580	1.6632	1.7259	1.7193	-0.0032	-0.0057	0.0904
3	16:39:35	-0.3321	0.5108	1.6492	1.7013	1.7303	-0.0073	-0.0100	0.0853
x		-0.2572	0.4724	1.6532	1.6978	1.7136	-0.0061	-0.0096	0.0928
σ		0.0706	0.0335	0.0087	0.0301	0.0201	0.0026	0.0038	0.0090
%RSD		27.4478	7.0958	0.5270	1.7711	1.1759	42.2801	39.4444	9.6837
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	16:38:03	0.0417	77.0%	82.2%	0.1031	0.0945	0.2673	0.2599	0.2627
2	16:38:49	0.0456	76.6%	84.0%	0.1093	0.0986	0.2720	0.2546	0.2596
3	16:39:35	0.0494	76.7%	84.1%	0.1104	0.0997	0.2672	0.2512	0.2568
x		0.0456	76.8%	83.5%	0.1076	0.0976	0.2688	0.2552	0.2597
σ		0.0039	0.2%	1.1%	0.0039	0.0027	0.0027	0.0044	0.0029
%RSD		8.5267	0.3	1.3	3.6626	2.7841	1.0182	1.7090	1.1288

K1405721-002 6/19/2014 4:42:09 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	52Cr	53Cr	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:09	85.2%	0.0036	0.9835	1.2729	8.7536	16.7029	67.5%	18.0348
2	16:42:55	86.1%	0.0022	0.9688	1.2045	8.7461	16.7881	68.2%	18.4384
3	16:43:41	87.7%	0.0101	1.0156	1.1268	8.7201	16.6352	69.2%	18.1274
x		86.4%	0.0053	0.9893	1.2014	8.7399	16.7087	68.3%	18.2002
σ		1.3%	0.0042	0.0239	0.0731	0.0176	0.0766	0.9%	0.2114
%RSD		1.5	79.3417	2.4165	6.0836	0.2009	0.4585	1.3	1.1618
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:09	3.1909	2.3803	24.6482	22.5940	23.4440	74.2%	2.1541	-0.0060
2	16:42:55	3.2023	2.3192	25.8924	22.5297	23.9595	75.2%	2.0420	0.3197
3	16:43:41	3.1427	2.4651	24.6474	23.3440	24.0318	75.7%	2.1780	0.0166
x		3.1786	2.3882	25.0627	22.8226	23.8118	75.1%	2.1247	0.1101
σ		0.0316	0.0733	0.7186	0.4527	0.3205	0.8%	0.0726	0.1819
%RSD		0.9952	3.0695	2.8670	1.9835	1.3461	1.0	3.4183	165.1901
Run	Time	78Se	82Se	95Mo	97Mo	98Mo	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:09	-0.2398	0.4752	1.9856	2.0841	2.0392	-0.0053	-0.0049	0.0979
2	16:42:55	-0.1278	0.6345	2.0172	2.0081	2.0341	-0.0027	0.0025	0.0849
3	16:43:41	0.3811	0.4817	1.9816	2.0594	2.0346	-0.0039	-0.0006	0.0782
x		0.0045	0.5305	1.9948	2.0505	2.0360	-0.0039	-0.0010	0.0870
σ		0.3309	0.0901	0.0195	0.0388	0.0028	0.0013	0.0037	0.0100
%RSD		7343.7246	16.9942	0.9781	1.8926	0.1382	32.9682	371.8710	11.4899
Run	Time	114Cd	115In	175Lu	203Tl	205Tl	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:42:09	0.0479	76.2%	82.2%	0.1171	0.1104	0.3271	0.3065	0.3154
2	16:42:55	0.0448	78.1%	84.5%	0.1168	0.1098	0.3240	0.3144	0.3182
3	16:43:41	0.0479	79.2%	84.6%	0.1203	0.1103	0.3297	0.3201	0.3183
x		0.0469	77.8%	83.8%	0.1181	0.1102	0.3269	0.3137	0.3173
σ		0.0018	1.5%	1.3%	0.0020	0.0003	0.0029	0.0068	0.0016
%RSD		3.7564	2.0	1.6	1.6727	0.3086	0.8778	2.1732	0.5101

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	16:46:17	87.4%	0.0068	0.9990	1.7298	0.2360	16.7398	70.3%	18.2471
2	16:47:03	87.8%	0.0101	1.0087	1.4253	0.2394	16.5524	71.2%	18.9413
3	16:47:48	88.4%	0.0061	0.9773	1.4961	0.2309	16.8901	71.6%	18.1727
x		87.9%	0.0077	0.9950	1.5504	0.2354	16.7274	71.0%	18.4537
σ		0.5%	0.0021	0.0161	0.1594	0.0042	0.1692	0.6%	0.4239
%RSD		0.5	27.8984	1.6144	10.2802	1.8035	1.0113	0.9	2.2971
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	16:46:17	2.9635	2.0464	14.2718	13.5266	13.6336	75.4%	2.4202	0.8213
2	16:47:03	2.9147	1.9965	14.2905	13.2325	13.4432	77.1%	2.3592	1.1963
3	16:47:48	2.9637	2.0802	14.3064	12.9449	13.6472	77.2%	2.4829	0.8061
x		2.9473	2.0410	14.2896	13.2346	13.5747	76.6%	2.4208	0.9413
σ		0.0282	0.0421	0.0173	0.2908	0.1140	1.0%	0.0619	0.2210
%RSD		0.9579	2.0627	0.1211	2.1975	0.8400	1.3	2.5559	23.4800
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	16:46:17	0.1031	0.8560	3.0815	3.1368	3.1337	-0.0054	-0.0056	0.0786
2	16:47:03	0.1110	0.7961	3.1305	3.1210	3.1749	-0.0024	-0.0031	0.0883
3	16:47:48	0.2558	0.8034	3.2319	3.1512	3.2025	0.0047	-0.0069	0.0952
x		0.1566	0.8185	3.1480	3.1363	3.1703	-0.0010	-0.0052	0.0874
σ		0.0860	0.0327	0.0767	0.0151	0.0346	0.0052	0.0019	0.0083
%RSD		54.9001	3.9965	2.4373	0.4807	1.0923	502.2247	37.3522	9.5149
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	16:46:17	0.0395	78.0%	83.2%	0.1394	0.1223	0.2264	0.2202	0.2187
2	16:47:03	0.0382	80.0%	84.7%	0.1354	0.1205	0.2215	0.2256	0.2197
3	16:47:48	0.0400	80.0%	85.3%	0.1364	0.1240	0.2316	0.2153	0.2199
x		0.0392	79.4%	84.4%	0.1371	0.1223	0.2265	0.2204	0.2194
σ		0.0009	1.2%	1.1%	0.0021	0.0018	0.0050	0.0052	0.0006
%RSD		2.3155	1.5	1.3	1.5259	1.4403	2.2272	2.3394	0.2917

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	16:50:28	92.7%	26.2717	25.4344	24.8922	25.5798	24.9729	83.6%	25.7118
2	16:51:14	91.9%	26.6190	25.1290	24.2123	25.3336	24.9664	84.4%	25.4684
3	16:52:00	93.6%	26.2349	25.0757	24.4258	25.3265	24.8675	83.6%	26.5483
x		92.7%	26.3752	25.2130	24.5101	25.4133	24.9356	83.9%	25.9095
σ		0.8%	0.2119	0.1935	0.3477	0.1443	0.0591	0.5%	0.5665
%RSD		0.9	0.8036	0.7676	1.4186	0.5677	0.2369	0.6	2.1863
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	16:50:28	25.5600	25.6177	25.4347	25.6633	25.5805	81.7%	25.5107	24.2637
2	16:51:14	25.4060	25.7321	25.5015	25.0430	25.4999	83.1%	25.6692	23.8801
3	16:52:00	25.3984	25.5345	25.0333	25.2764	25.2741	83.7%	24.7725	25.4333
x		25.4548	25.6281	25.3232	25.3275	25.4515	82.8%	25.3175	24.5257
σ		0.0912	0.0992	0.2533	0.3133	0.1588	1.1%	0.4785	0.8091
%RSD		0.3582	0.3871	1.0001	1.2369	0.6241	1.3	1.8901	3.2990
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	16:50:28	24.5845	24.8568	24.9601	24.8026	24.9342	24.8594	24.9513	24.9615
2	16:51:14	24.9487	25.6891	24.7174	24.8680	24.8765	24.9821	24.9116	25.0046
3	16:52:00	24.5173	24.2897	24.8449	24.9814	25.0319	24.9744	25.0945	24.9958
x		24.6835	24.9452	24.8408	24.8840	24.9475	24.9386	24.9858	24.9873
σ		0.2321	0.7039	0.1214	0.0905	0.0786	0.0687	0.0962	0.0228
%RSD		0.9404	2.8218	0.4887	0.3637	0.3150	0.2755	0.3850	0.0911
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	16:50:28	24.9828	84.6%	88.0%	25.5717	24.9883	25.0894	24.9264	25.0450
2	16:51:14	24.9548	85.9%	89.9%	25.3461	24.7329	24.9096	24.7270	24.8104
3	16:52:00	24.8854	86.0%	89.6%	25.5011	25.1626	25.1886	24.8942	25.0359
x		24.9410	85.5%	89.2%	25.4730	24.9612	25.0625	24.8492	24.9637
σ		0.0501	0.7%	1.1%	0.1154	0.2161	0.1414	0.1070	0.1329
%RSD		0.2010	0.9	1.2	0.4530	0.8658	0.5643	0.4308	0.5324

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	16:56:31	91.9%	0.0058	-0.0160	-0.9220	0.0066	0.0274	82.7%	-0.0297
2	16:57:17	92.2%	0.0007	-0.0408	-1.0193	0.0035	-0.0320	84.0%	0.2618
3	16:58:03	94.4%	0.0007	-0.0083	-0.9523	0.0072	0.0823	83.6%	0.4951
x		92.8%	0.0024	-0.0217	-0.9645	0.0058	0.0259	83.4%	0.2424
σ		1.4%	0.0029	0.0169	0.0498	0.0020	0.0572	0.7%	0.2629
%RSD		1.5	122.4204	78.1533	5.1626	33.9411	220.7222	0.8	108.4695
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	16:56:31	0.0286	0.0241	0.0213	-0.1405	-0.0087	81.3%	-0.0061	-0.2576
2	16:57:17	0.0387	0.0185	0.0103	-0.0503	0.0069	83.0%	0.0077	-0.3361
3	16:58:03	0.0372	0.0233	0.0236	-0.1441	0.0077	83.1%	0.1408	-0.2670
x		0.0348	0.0219	0.0184	-0.1116	0.0020	82.5%	0.0475	-0.2869
σ		0.0055	0.0030	0.0071	0.0531	0.0093	1.0%	0.0811	0.0429
%RSD		15.6739	13.8566	38.5112	47.5889	467.4333	1.2	170.9147	14.9386
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	16:56:31	-0.7796	0.0017	-0.0157	0.0325	0.0489	-0.0144	-0.0110	0.0130
2	16:57:17	-0.5788	-0.0443	-0.0069	0.0359	0.0397	-0.0124	-0.0109	0.0057
3	16:58:03	-0.8439	0.4067	-0.0113	0.0337	0.0283	-0.0231	-0.0178	0.0107
x		-0.7341	0.1214	-0.0113	0.0340	0.0390	-0.0166	-0.0132	0.0098
σ		0.1383	0.2482	0.0044	0.0017	0.0103	0.0057	0.0040	0.0038
%RSD		18.8351	204.4945	38.8554	4.9755	26.4068	34.0615	30.0764	38.4429
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	16:56:31	0.0040	82.8%	87.1%	0.0068	0.0029	0.0053	0.0001	0.0023
2	16:57:17	0.0021	84.5%	88.3%	0.0028	0.0036	0.0024	0.0015	0.0011
3	16:58:03	0.0007	85.0%	89.1%	0.0037	0.0042	0.0036	0.0014	0.0013
x		0.0023	84.1%	88.2%	0.0045	0.0035	0.0038	0.0010	0.0016
σ		0.0017	1.2%	1.0%	0.0021	0.0006	0.0014	0.0008	0.0006
%RSD		74.3460	1.4	1.1	47.1555	17.3381	38.0196	78.2025	39.0132

K1405721-004 6/19/2014 5:00:56 PM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	17:00:56	86.9%	0.0055	0.9603	1.3009	0.2295	17.1582	61.9%	19.0158
2	17:01:41	87.3%	0.0068	0.9981	1.5169	0.2324	16.9335	62.9%	18.9277
3	17:02:27	89.4%	0.0034	0.9662	1.4240	0.2137	16.8627	63.5%	19.1295
x		87.9%	0.0052	0.9749	1.4139	0.2252	16.9848	62.8%	19.0243
σ		1.3%	0.0017	0.0204	0.1084	0.0101	0.1543	0.8%	0.1012
%RSD		1.5	33.0705	2.0892	7.6640	4.4836	0.9082	1.3	0.5318
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	17:00:56	5.1894	4.2613	27.0690	25.3525	25.8872	75.6%	2.4048	0.4157
2	17:01:41	5.1089	4.2431	27.1218	24.9912	25.9299	76.9%	2.4847	0.5247
3	17:02:27	5.1636	4.1551	27.0934	24.9512	25.6424	77.5%	2.4076	0.8732
x		5.1540	4.2198	27.0948	25.0983	25.8199	76.7%	2.4324	0.6046
σ		0.0411	0.0568	0.0264	0.2210	0.1551	1.0%	0.0454	0.2390
%RSD		0.7974	1.3463	0.0976	0.8807	0.6008	1.3	1.8646	39.5259
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	17:00:56	0.2430	0.8541	2.3240	2.4221	2.4013	0.0192	0.0138	0.1058
2	17:01:41	-0.1753	0.9940	2.3419	2.4041	2.3708	0.0284	0.0297	0.0958
3	17:02:27	-0.1574	0.9613	2.3804	2.3631	2.4289	0.0236	0.0231	0.0850
x		-0.0299	0.9365	2.3488	2.3964	2.4003	0.0237	0.0222	0.0956
σ		0.2365	0.0732	0.0288	0.0302	0.0291	0.0046	0.0080	0.0104
%RSD		791.2776	7.8167	1.2269	1.2601	1.2124	19.4601	35.8679	10.8882
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	17:00:56	0.0619	77.9%	83.5%	0.1312	0.1245	0.7206	0.6641	0.6826
2	17:01:41	0.0561	79.7%	85.9%	0.1310	0.1240	0.7014	0.6767	0.6824
3	17:02:27	0.0595	79.8%	86.0%	0.1395	0.1214	0.7101	0.6792	0.6841
x		0.0592	79.1%	85.1%	0.1339	0.1233	0.7107	0.6733	0.6830
σ		0.0029	1.1%	1.4%	0.0049	0.0016	0.0096	0.0081	0.0009
%RSD		4.9560	1.4	1.7	3.6229	1.3330	1.3572	1.2017	0.1312

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	52Cr	53Cr	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:05:20	88.5%	0.0067	0.9784	1.7983	2.7688	17.5146	70.0%	19.5134
2	17:06:06	88.8%	0.0067	1.0079	1.8017	2.7362	17.0922	71.1%	18.7904
3	17:06:52	88.9%	0.0067	1.0095	2.0520	2.8037	17.4341	71.4%	19.1159
x		88.8%	0.0067	0.9986	1.8840	2.7696	17.3470	70.8%	19.1399
σ		0.2%	0.0000	0.0175	0.1455	0.0338	0.2243	0.8%	0.3621
%RSD		0.2	0.2640	1.7565	7.7239	1.2194	1.2928	1.1	1.8919
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:05:20	2.8978	1.9904	18.3753	16.9852	17.2975	75.8%	2.3811	0.9897
2	17:06:06	2.9179	1.9500	17.9757	16.9246	17.3852	77.4%	2.4834	0.5813
3	17:06:52	2.9459	1.9846	18.1413	16.4131	17.2985	77.0%	2.4619	0.9181
x		2.9205	1.9750	18.1641	16.7743	17.3271	76.8%	2.4421	0.8297
σ		0.0242	0.0218	0.2008	0.3143	0.0504	0.8%	0.0540	0.2181
%RSD		0.8269	1.1048	1.1055	1.8736	0.2907	1.1	2.2093	26.2848
Run	Time	78Se	82Se	95Mo	97Mo	98Mo	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:05:20	0.4545	0.9911	3.0175	2.9785	3.0679	-0.0018	0.0022	0.0805
2	17:06:06	-0.1029	0.7122	2.9209	3.0141	3.0378	0.0053	-0.0019	0.0721
3	17:06:52	0.0319	0.9024	2.9920	3.0626	3.0602	0.0019	-0.0044	0.0951
x		0.1278	0.8686	2.9768	3.0184	3.0553	0.0018	-0.0014	0.0826
σ		0.2908	0.1425	0.0500	0.0422	0.0156	0.0036	0.0033	0.0116
%RSD		227.5203	16.4032	1.6803	1.3994	0.5113	197.7842	246.0695	14.0461
Run	Time	114Cd	115In	175Lu	203Tl	205Tl	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:05:20	0.0505	77.9%	83.3%	0.1368	0.1198	0.2435	0.2296	0.2332
2	17:06:06	0.0435	79.7%	84.8%	0.1261	0.1163	0.2430	0.2241	0.2289
3	17:06:52	0.0459	79.5%	85.3%	0.1321	0.1202	0.2293	0.2281	0.2281
x		0.0466	79.0%	84.5%	0.1317	0.1187	0.2386	0.2273	0.2301
σ		0.0035	1.0%	1.0%	0.0053	0.0021	0.0081	0.0029	0.0027
%RSD		7.5465	1.3	1.2	4.0561	1.8080	3.3788	1.2575	1.1909

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	17:09:28	87.5%	0.0055	1.2737	2.1853	2.7624	17.3750	69.8%	19.7644
2	17:10:14	88.8%	0.0047	1.2061	2.3598	2.7748	17.6326	70.5%	20.0854
3	17:11:00	90.2%	0.0072	1.1407	2.1252	2.7051	17.6264	70.8%	19.8558
X		88.8%	0.0058	1.2068	2.2234	2.7474	17.5447	70.3%	19.9019
σ		1.4%	0.0013	0.0665	0.1219	0.0372	0.1470	0.5%	0.1654
%RSD		1.5	21.9604	5.5096	5.4821	1.3544	0.8376	0.7	0.8308
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	17:09:28	4.9290	4.0268	74.9468	68.2441	71.4823	76.3%	2.4619	0.7969
2	17:10:14	4.9490	4.0823	75.0388	70.3358	71.3631	77.3%	2.4385	1.0933
3	17:11:00	4.9030	4.0078	74.5007	67.1979	71.2813	78.1%	2.4041	1.0561
X		4.9270	4.0389	74.8288	68.5926	71.3756	77.2%	2.4348	0.9821
σ		0.0231	0.0387	0.2878	1.5977	0.1011	0.9%	0.0291	0.1615
%RSD		0.4680	0.9583	0.3846	2.3293	0.1416	1.1	1.1933	16.4419
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	17:09:28	0.3230	1.1567	2.8861	2.8537	2.8907	-0.0040	-0.0052	0.0907
2	17:10:14	0.1609	0.9393	2.8302	2.8809	2.8890	0.0024	0.0011	0.0711
3	17:11:00	0.0498	0.7701	2.9135	2.9307	2.9464	0.0020	0.0003	0.0886
X		0.1779	0.9554	2.8766	2.8884	2.9087	0.0002	-0.0013	0.0835
σ		0.1374	0.1938	0.0424	0.0390	0.0327	0.0036	0.0034	0.0108
%RSD		77.2338	20.2833	1.4747	1.3516	1.1226	2349.7732	271.2325	12.9351
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	17:09:28	0.0509	78.2%	82.6%	0.1301	0.1182	1.0256	0.9925	1.0071
2	17:10:14	0.0517	79.7%	85.0%	0.1335	0.1207	1.0658	1.0071	1.0222
3	17:11:00	0.0449	79.9%	85.2%	0.1226	0.1249	1.0507	1.0003	1.0177
X		0.0492	79.2%	84.3%	0.1287	0.1213	1.0474	1.0000	1.0157
σ		0.0037	0.9%	1.4%	0.0056	0.0034	0.0203	0.0073	0.0077
%RSD		7.5117	1.2	1.7	4.3306	2.8168	1.9383	0.7285	0.7622

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	17:13:35	87.3%	0.0175	266.9223	253.8743	15.1731	920.8717	63.5%	900.5819
2	17:14:21	87.3%	0.0155	260.8236	249.0332	14.9012	926.4843	62.7%	907.9879
3	17:15:07	88.3%	0.0153	259.8095	248.5234	14.8857	923.4023	62.9%	908.3352
x		87.6%	0.0161	262.5185	250.4770	14.9867	923.5861	63.1%	905.6350
σ		0.6%	0.0012	3.8474	2.9532	0.1617	2.8108	0.4%	4.3796
%RSD		0.7	7.5134	1.4656	1.1790	1.0787	0.3043	0.6	0.4836
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	17:13:35	21.1627	20.8877	28.1499	26.9438	27.3165	76.5%	6.9833	1.0407
2	17:14:21	20.9887	20.5812	27.2071	25.5315	26.6825	77.7%	7.1812	0.8813
3	17:15:07	20.7986	20.6818	27.1266	25.4658	26.9012	77.7%	6.9692	0.8498
x		20.9834	20.7169	27.4946	25.9804	26.9667	77.3%	7.0446	0.9240
σ		0.1821	0.1562	0.5690	0.8350	0.3221	0.7%	0.1185	0.1023
%RSD		0.8679	0.7541	2.0695	3.2140	1.1943	0.9	1.6826	11.0733
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	17:13:35	-0.0956	0.6075	5.2999	5.3706	5.3944	0.0814	0.0818	0.8861
2	17:14:21	-0.3321	0.8228	5.1977	5.1709	5.2985	0.0745	0.0748	0.8272
3	17:15:07	-0.0809	0.4529	5.1804	5.1442	5.2971	0.0773	0.0734	0.8707
x		-0.1695	0.6277	5.2260	5.2286	5.3300	0.0778	0.0767	0.8613
σ		0.1410	0.1858	0.0646	0.1237	0.0558	0.0035	0.0045	0.0306
%RSD		83.1518	29.5930	1.2355	2.3657	1.0464	4.4551	5.8711	3.5507
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	17:13:35	0.8333	78.0%	83.7%	0.1208	0.1154	0.2064	0.2034	0.2039
2	17:14:21	0.8180	79.9%	85.8%	0.1222	0.1159	0.1998	0.1905	0.1960
3	17:15:07	0.8330	79.5%	85.9%	0.1177	0.1151	0.1949	0.2030	0.1980
x		0.8281	79.1%	85.1%	0.1202	0.1155	0.2004	0.1990	0.1993
σ		0.0088	1.0%	1.3%	0.0023	0.0004	0.0058	0.0074	0.0041
%RSD		1.0579	1.3	1.5	1.9111	0.3662	2.8754	3.7064	2.0532

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	17:18:02	92.4%	26.6862	25.7988	25.2451	25.8719	25.2332	82.7%	26.1361
2	17:18:47	95.9%	26.0270	24.8517	24.0767	25.0453	25.2809	82.1%	26.4161
3	17:19:33	94.0%	27.0155	25.9017	25.5759	26.2410	25.3105	84.1%	25.8991
x		94.1%	26.5762	25.5174	24.9659	25.7194	25.2749	82.9%	26.1504
σ		1.8%	0.5034	0.5788	0.7876	0.6122	0.0390	1.0%	0.2588
%RSD		1.9	1.8941	2.2683	3.1548	2.3804	0.1544	1.2	0.9896
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	17:18:02	25.8958	25.8580	25.7480	25.9072	25.7093	80.2%	25.5366	24.9160
2	17:18:47	25.2444	25.1909	24.9793	24.4784	24.9045	82.8%	25.0518	25.4018
3	17:19:33	25.9546	26.2431	25.8074	25.6095	26.0994	81.0%	25.9262	24.9965
x		25.6982	25.7640	25.5116	25.3317	25.5711	81.3%	25.5049	25.1048
σ		0.3941	0.5324	0.4619	0.7538	0.6093	1.3%	0.4381	0.2604
%RSD		1.5337	2.0663	1.8105	2.9758	2.3829	1.6	1.7175	1.0371
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	17:18:02	25.2478	25.8873	24.9758	25.2822	24.8733	25.0879	25.1583	24.9942
2	17:18:47	24.2578	25.1321	24.7833	25.0550	24.9150	25.0500	25.2586	25.1616
3	17:19:33	25.3899	25.9643	25.6223	25.7137	25.5190	25.5463	25.6957	25.7655
x		24.9652	25.6612	25.1271	25.3503	25.1024	25.2281	25.3709	25.3071
σ		0.6167	0.4599	0.4395	0.3346	0.3614	0.2762	0.2858	0.4057
%RSD		2.4702	1.7921	1.7490	1.3200	1.4396	1.0949	1.1263	1.6032
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	17:18:02	25.1168	82.6%	85.9%	25.5553	25.1836	25.2570	25.0853	25.1817
2	17:18:47	24.9850	83.9%	88.2%	25.5522	24.7593	24.8988	24.6356	24.7069
3	17:19:33	25.5464	83.0%	86.7%	26.0748	25.2467	25.5224	25.6922	25.5177
x		25.2160	83.2%	87.0%	25.7274	25.0632	25.2260	25.1377	25.1354
σ		0.2936	0.6%	1.2%	0.3008	0.2651	0.3130	0.5302	0.4074
%RSD		1.1642	0.8	1.4	1.1691	1.0577	1.2406	2.1092	1.6208

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	17:24:03	92.8%	26.3191	25.9657	25.0749	25.8400	24.9799	81.7%	25.9548
2	17:24:49	95.5%	25.9564	25.6092	24.8480	25.5306	25.2773	82.5%	26.0013
3	17:25:35	95.1%	25.5843	25.5135	24.8441	25.6305	25.0489	82.5%	25.8216
X		94.5%	25.9533	25.6961	24.9224	25.6670	25.1020	82.2%	25.9259
σ		1.4%	0.3674	0.2383	0.1321	0.1579	0.1556	0.5%	0.0932
%RSD		1.5	1.4156	0.9274	0.5302	0.6152	0.6200	0.6	0.3597
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	17:24:03	25.8645	26.0194	25.3054	25.1122	25.5790	79.8%	25.4981	24.5007
2	17:24:49	25.6077	25.9456	25.5840	24.9691	25.4078	80.7%	25.4636	24.6835
3	17:25:35	25.6321	25.7720	25.5351	24.9044	25.3430	80.7%	24.9768	25.5215
X		25.7015	25.9123	25.4748	24.9952	25.4433	80.4%	25.3128	24.9019
σ		0.1418	0.1270	0.1488	0.1063	0.1219	0.6%	0.2915	0.5443
%RSD		0.5516	0.4901	0.5839	0.4253	0.4793	0.7	1.1516	2.1859
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	17:24:03	24.5805	25.5332	25.0075	25.0846	25.2496	25.0917	25.2097	24.9534
2	17:24:49	24.6891	25.2430	24.7846	24.9908	25.1790	25.1012	25.3551	25.1899
3	17:25:35	24.7447	25.4901	24.9255	25.0067	25.2179	25.2944	25.6084	25.5306
X		24.6714	25.4221	24.9059	25.0274	25.2155	25.1625	25.3911	25.2246
σ		0.0835	0.1566	0.1127	0.0502	0.0354	0.1144	0.2018	0.2901
%RSD		0.3385	0.6160	0.4527	0.2005	0.1403	0.4547	0.7947	1.1502
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	17:24:03	24.9077	81.8%	86.0%	25.7292	25.0738	24.9967	24.9611	25.1131
2	17:24:49	24.9245	83.2%	87.7%	25.7253	24.8993	24.9349	24.9526	24.9218
3	17:25:35	25.0189	82.9%	87.3%	25.7221	24.8892	25.1009	24.8611	24.9501
X		24.9503	82.6%	87.0%	25.7255	24.9541	25.0108	24.9250	24.9950
σ		0.0599	0.7%	0.9%	0.0035	0.1038	0.0839	0.0555	0.1033
%RSD		0.2402	0.9	1.0	0.0138	0.4159	0.3355	0.2225	0.4131

27
6/20/14
not needed

CCB4 6/19/2014 5:30:17 PM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	17:30:17	92.6%	0.0051	0.0081	-0.7293	0.0041	0.0997	81.5%	0.4580
2	17:31:03	95.0%	0.0050	-0.0066	-0.8348	0.0043	-0.0455	82.9%	0.2386
3	17:31:49	94.9%	0.0062	0.0024	-0.7466	0.0042	0.0518	83.8%	0.3733
x		94.1%	0.0054	0.0013	-0.7702	0.0042	0.0353	82.7%	0.3566
σ		1.4%	0.0007	0.0074	0.0566	0.0001	0.0740	1.2%	0.1107
%RSD		1.4	12.3283	561.0793	7.3483	2.1717	209.4862	1.4	31.0303
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	17:30:17	0.0110	0.0061	0.0105	-0.0400	-0.0084	79.8%	0.1060	-0.3597
2	17:31:03	0.0266	0.0010	0.0070	-0.0147	0.0237	81.8%	-0.0284	-0.3270
3	17:31:49	0.0163	0.0149	0.0037	-0.0809	0.0026	81.4%	-0.0131	-0.0948
x		0.0180	0.0073	0.0071	-0.0452	0.0059	81.0%	0.0215	-0.2605
σ		0.0079	0.0071	0.0034	0.0334	0.0163	1.0%	0.0736	0.1444
%RSD		44.0746	96.6624	48.1423	73.8893	274.9168	1.3	342.2441	55.4376
Run	Time	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	107Ag ppb	109Ag ppb	111Cd ppb
1	17:30:17	-0.6379	0.1977	0.0069	0.0232	0.0419	-0.0117	-0.0077	0.0077
2	17:31:03	-0.6580	-0.1818	0.0031	0.0453	0.0452	-0.0181	-0.0124	0.0158
3	17:31:49	-0.2705	-0.0982	0.0080	0.0430	0.0360	-0.0066	-0.0139	0.0258
x		-0.5221	-0.0275	0.0060	0.0371	0.0410	-0.0121	-0.0113	0.0165
σ		0.2181	0.1994	0.0026	0.0122	0.0047	0.0058	0.0032	0.0091
%RSD		41.7799	726.2547	42.7537	32.7605	11.4134	47.7375	28.2113	55.0712
Run	Time	114Cd ppb	115In ppb	175Lu ppb	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb
1	17:30:17	-0.0000	81.1%	85.4%	0.0043	0.0033	0.0020	0.0013	0.0014
2	17:31:03	0.0058	83.2%	87.1%	0.0033	0.0015	0.0044	0.0013	0.0031
3	17:31:49	0.0043	82.7%	87.3%	0.0039	0.0028	0.0025	0.0011	0.0022
x		0.0034	82.3%	86.6%	0.0038	0.0025	0.0030	0.0013	0.0022
σ		0.0030	1.1%	1.1%	0.0005	0.0009	0.0012	0.0001	0.0009
%RSD		89.9772	1.3	1.2	12.9984	35.6501	41.5406	8.1880	38.2089

LLCCVW 6/19/2014 5:34:42 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	52Cr	53Cr	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:42	94.4%	0.2083	1.9543	1.2828	0.2228	2.1285	80.6%	2.1385
2	17:35:27	95.6%	0.2178	1.9424	0.8839	0.2147	2.1128	81.3%	2.4003
3	17:36:13	97.0%	0.2146	1.9553	1.1922	0.2180	2.2955	81.7%	2.0575
x		95.7%	0.2136	1.9507	1.1196	0.2185	2.1790	81.2%	2.1988
σ		1.3%	0.0048	0.0071	0.2091	0.0041	0.1012	0.6%	0.1791
%RSD		1.4	2.2615	0.3664	18.6773	1.8711	4.6459	0.7	8.1471
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:42	1.0472	1.0352	5.0028	4.3450	4.7948	80.9%	4.9433	10.1534
2	17:35:27	1.0387	0.9960	4.9242	4.5692	4.7446	81.8%	5.1604	9.4035
3	17:36:13	1.0548	1.0397	4.9248	4.7089	4.8098	82.5%	5.0039	9.3131
x		1.0469	1.0236	4.9506	4.5410	4.7831	81.8%	5.0359	9.6233
σ		0.0081	0.0240	0.0452	0.1836	0.0342	0.8%	0.1120	0.4613
%RSD		0.7707	2.3492	0.9131	4.0432	0.7142	1.0	2.2245	4.7935
Run	Time	78Se	82Se	95Mo	97Mo	98Mo	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:42	9.3000	9.8329	0.4633	0.4888	0.4997	0.1267	0.1346	0.1861
2	17:35:27	9.5894	9.7898	0.4494	0.5147	0.5022	0.1412	0.1436	0.2195
3	17:36:13	9.6739	9.2383	0.4729	0.5105	0.5195	0.1432	0.1476	0.1996
x		9.5211	9.6203	0.4619	0.5047	0.5071	0.1370	0.1420	0.2017
σ		0.1961	0.3316	0.0118	0.0139	0.0108	0.0090	0.0067	0.0168
%RSD		2.0596	3.4465	2.5507	2.7567	2.1285	6.5673	4.6962	8.3226
Run	Time	114Cd	115In	175Lu	203Tl	205Tl	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:42	0.2154	81.5%	85.0%	0.2180	0.2075	0.2228	0.2016	0.2147
2	17:35:27	0.1971	83.1%	86.3%	0.2124	0.2038	0.2163	0.2175	0.2113
3	17:36:13	0.2093	83.6%	86.9%	0.2031	0.2084	0.2215	0.2101	0.2146
x		0.2073	82.7%	86.1%	0.2111	0.2066	0.2202	0.2097	0.2135
σ		0.0093	1.1%	1.0%	0.0075	0.0025	0.0034	0.0080	0.0019
%RSD		4.5075	1.3	1.2	3.5638	1.1895	1.5536	3.8056	0.8943



Organochlorine Pesticides

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Exception Report

Data File: J:\GC23\DATA\062514\0625F015.D
Lab ID: K1405818-001
RunType: SMPL
Matrix: WATER

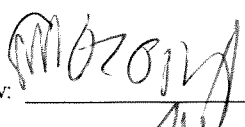
Date Acquired: 06/25/2014 20:57
Date Quantitated: 06/26/2014 13:29
Batch ID: KWG1406791
Analysis Method: 8081B
ListJoinID: LJ13160

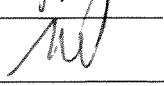
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		x
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	1g MAY
Lab Control Spike	Toxaphene {2}	148	36	137	
	Toxaphene {3}	0	36	137	COO J
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	
	Heptachlor Epoxide	12.79	NA	NA	
	1-Bromo-2-nitrobenzene {2}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.06	NA	NA	
	Oxychlordan	12.79	NA	NA	

Primary Review: 

Secondary Review: 

Exception Report

Data File: J:\GC23\DATA\062514\0625F015.D\0625F015C.D
Lab ID: K1405818-001
RunType: SMPL
Matrix: WATER

Date Acquired: 06/25/2014 20:57
Date Quantitated: 06/26/2014 13:29
Batch ID: KWG1406791
Analysis Method: 8081B
ListJoinID: LJ13160

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		x
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Lab Control Spike	Toxaphene {2}	148	36	137	<i>MAK</i>
	Toxaphene {3}	0	36	137	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.47	NA	NA	<i>Corel</i>
	gamma-Chlordane	11.98	NA	NA	
	2,4'-DDE	11.98	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {4}	5.47	NA	NA	
	trans-Nonachlor	11.98	NA	NA	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F015.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F015.D\0625F015c.d	Vial:	14
Acqu Date:	06/25/2014 20:57	Quant Date:	06/26/2014 13:29
Run Type:	SMPL	Dilution:	1.0
Lab ID:	K1405818-001	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:	V	Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:	06/04/2014	Receive Date:	06/10/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1405574	Report Group:	K1405818
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1347305	Prep Date:	06/11/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:	Organochlorine Pesticides	Report List ID:	LJ13160
MB Ref:	J:\GC23\DATA\062514\0625F022.D	Method ID:	MJ1013
Quant based on Report List			

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10c}	5.47 ^{-0.09c}	1918800	771207	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.06 ^{+0.14c}	5.47 ^{+0.08c}	1918800	771207	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.06 ^{+0.06c}	5.47 ^{+0.03c}	1918800	771207	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.06 ^{+0.14c}	5.47 ^{+0.08c}	1918800	771207	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{+0.02}	7.26 ^{+0.01}	1707789	710283	74.59	69.79	75 OK
						%Recovery =	75 OK 70 OK	Limits = 20-106
1	Decachlorobiphenyl	18.50	17.06 ^{+0.01}	1591755	661613	79.30	76.70	79 OK
						%Recovery =	79 OK 77 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC		8.50 ^{+0.01}	0d	9840	0.0000	0.8030	0.00033U	0.0016J	0.00033U
1	beta-BHC	10.90 ^{-0.01}	9.79 ^{+0.02}	6207	15299	0.5070	2.71	0.0010J	0.0054J	0.0011Ui
1	gamma-BHC (Lindane)	10.33 ^{+0.02}	9.23	2639	4346	0.0970	0.3840	0.00044U	0.00077J	0.00044U
1	delta-BHC	11.44 ^{+0.03}	10.34 ^{+0.04}	1432m	2716	0.0540	0.2440	0.00057U	0.00057U	0.00057U
1	Heptachlor		9.93 ^{+0.01}	0d	8875	0.0000	0.8400	0.00036U	0.0017J	0.00036U
1	Aldrin	12.07 ^{+0.01}	10.53 ^{+0.02}	2426m	1939	0.0900	0.1660	0.00040U	0.00040U	0.00040U
1	Heptachlor Epoxide	12.79 ^{+0.01c}	11.63 ^{+0.04}	5190	19092	0.2090	1.84	0.00042J	0.0037J	0.0037JP (RPD)
1	gamma-Chlordane	13.31 ^{+0.01}	11.98 ^{+0.01c}	7608	1982	0.3020	0.1830	0.00060J	0.00037J	0.00060JP
1	Endosulfan I	13.42		8534	0d	0.3800	0.0000	0.00076J	0.00044U	0.00044U

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F015.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F015.D\0625F015c.d	Vial:	14
Acqu Date:	06/25/2014 20:57	Quant Date:	06/26/2014 13:29
Run Type:	SMPL	Dilution:	1.0
Lab ID:	K1405818-001	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

		Final Conc. Units: ug/L								
IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-Chlordane	13.38 ^{+0.01}	12.15 ^{+0.03}	7005	4540	0.2820	0.4270	0.0040U	0.0040U	0.0040U
1	Dieldrin		12.62 ^{-0.01}	0	16604	0.0000	1.57	0.00035U	0.0031J	0.00035U
1	4,4'-DDE	13.65	12.45 ^{-0.03}	17669	3616	0.7310	0.3440	0.0015J	0.00069J	0.00069JP
1	Endrin		13.08 ^{-0.03}	0	4056	0.0000	0.4450	0.00068U	0.00089J	0.00068U
1	Endosulfan II		13.54	0d	4794	0.0000	0.5500	0.00040U	0.0011J	0.00040U
1	4,4'-DDD	14.49	13.39 ^{+0.03}	3855m	1552m	0.1950	0.1890	0.0015U	0.0015U	0.0015U
1	Endrin Aldehyde	14.86 ^{+0.02}	13.90	10874	3548	0.7990	0.5280	0.0016J	0.0011J	0.0011J
1	4,4'-DDT		13.82 ^{+0.03}	0	4643	0.0000	0.5970	0.00058U	0.0012J	0.00058U
1	Endrin Ketone	15.99	15.20 ^{+0.02}	8623	1144	0.3720	0.1140	0.00074J	0.00066U	0.00066U
1	Methoxychlor	15.71 ^{-0.02}	14.92 ^{+0.03}	8912	7441m	0.9580	1.88	0.0019J	0.0038J	0.0019JP
1	2,4'-DDE	13.10 ^{+0.03}	11.98 ^{-0.02c}	4626	1982	0.2890	0.2910	0.00058J	0.00058J	0.00058J
1	2,4'-DDD		12.82 ^{+0.04}	0	30036	0.0000	4.84	0.00057U	0.0097J	0.00057U
1	2,4'-DDT	14.28 ^{-0.02}		83314	0d	5.48	0.0000	0.011	0.00059U	0.00059U
2	Toxaphene {1}	14.58 ^{-0.02}	13.57 ^{-0.03}	4237	2232	33.42	14.88	0.067J	0.051U	0.075JP
	Toxaphene			0	0	37.74	60.63	0.075J	0.12J	0.075JP
2	Toxaphene {2}	14.67 ^{+0.02}		7628	0d	40.80	0.0000	0.082J	0.051U	0.051U
2	Toxaphene {3}		13.90 ^{-0.03}	0d	3548	0.0000	44.47	0.051U	0.089J	0.089J
2	Toxaphene {4}	14.86 ^{+0.02}	14.31 ^{+0.03}	10874	11879	39.01	122.55	0.078J	0.25J	0.25J
2	Toxaphene {5}			0	0d	0.0000	0.0000	0.051U	0.051U	0.051U
2	Toxaphene {6}			0d	0d	0.0000	0.0000	0.051U	0.051U	0.051U
3	Chlordane {1}			0d	0	0.0000	0.0000	0.022U	0.022U	0.022U
	Chlordane			0	0	3.96	6.19	0.022U	0.022U	0.022U
3	Chlordane {2}	11.48 ^{-0.05}	9.93	8052	8875	6.17	17.59	0.022U	0.035J	0.035J
3	Chlordane {3}		11.98	0d	1982	0.0000	1.76	0.022U	0.022U	0.022U
3	Chlordane {4}	13.31	11.98 ^{-0.05}	7608	1982	2.54	2.93	0.022U	0.022U	0.022U
3	Chlordane {5}	13.38 ^{-0.01}	12.09	7005	1416	3.16	3.74	0.022U	0.022U	0.022U
3	Chlordane {6}		12.15 ^{+0.02}	0d	4540	0.0000	4.94	0.022U	0.022U	0.022U
4	Oxychlordane	12.79 ^{+0.04c}	11.39	5190	4323	0.2530	0.4900	0.0010U	0.0010U	0.0010U
4	cis-Nonachlor	14.45 ^{-0.05}	13.20 ^{-0.02}	3134	3085	0.1270	0.2780	0.00060U	0.00060U	0.00060U
4	trans-Nonachlor	13.47	11.98 ^{-0.04c}	63637	1982	2.60	0.1830	0.0052J	0.00092U	0.00092U
4	Mirex			0	0d	0.0000	0.0000	0.00081U	0.00081U	0.00081U

The +/- after Retention Time symbolize the direction of the RT shift

Prep Amount: 1000 mL Dilution: 1.0
 Prep Final Vol: 2 mL Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F015.D\ECD1A.CH Vial: 14
 Signal #2 : J:\GC23\DATA\062514\0625F015.D\ECD2B.CH
 Acq On : 25 Jun 2014 8:57 pm Operator: SMURRAY
 Sample : K1405818-001 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:11:52 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.47	1918800	771207	100.000	100.000
29) 1-Bromo-2-nitrob	6.06	5.47	1918800	771207	100.000	100.000
36) 1-Bromo-2-nitrob	6.06	5.47	1918800	771207	100.000	100.000
43) 1-Bromo-2-nitrob	6.06	5.47	1918800	771207	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.26	1707789	710283	74.594	69.793
28) s Decachlorobiphen	18.50	17.06	1591755	661613	79.297	76.696
Target Compounds						
3) alpha-BHC	0.00	8.50	0	9840	N.D. d	0.803
4) Hexachlorobenzen	0.00	8.28	0	1119	N.D. d	0.095
5) beta-BHC	10.90f	9.79	6207	15299	0.507	2.712 #
6) gamma-BHC (Linda	10.33	9.23	2639	4346	0.097	0.384 #
7) delta-BHC	11.44	10.34f	1432	2716	0.054m	0.244 #
8) Heptachlor	0.00	9.93	0	8875	N.D. d	0.840
9) Aldrin	12.07	10.53	2426	1939	0.090m	0.166 #
10) Isodrin	12.62	11.30	5196	2082	0.230	0.215
11) Heptachlor Epoxi	12.79	11.63f	5190	19092	0.209	1.839 #
12) gamma-Chlordane	13.31	11.98	7608	1982	0.302	0.183 #
13) Endosulfan I	13.42	0.00	8534	0	0.380	N.D. d#
14) alpha-Chlordane	13.38	12.15	7005	4540	0.282	0.427 #
15) Dieldrin	0.00	12.62	0	16604	N.D.	1.568 #
16) 4,4'-DDE	13.65	12.45f	17669	3616	0.731	0.344 #
17) Endrin	0.00	13.08f	0	4056	N.D.	0.445 #
18) Endosulfan II	0.00	13.54	0	4794	N.D. d	0.550
19) 4,4'-DDD	14.49	13.39	3855	1552	0.195m	0.189m
20) Endrin Aldehyde	14.86	13.90	10874	3548	0.799	0.528 #
21) Endosulfan Sulfa	15.34	0.00	32246	0	1.755	N.D. d#
22) 4,4'-DDT	0.00	13.82f	0	4643	N.D.	0.597 #
23) Endrin Ketone	15.99	15.20	8623	1144	0.372	0.114 #
24) Methoxychlor	15.71f	14.92	8912	7441	0.958	1.875m#
25) 2,4'-DDE	13.10	11.98f	4626	1982	0.289	0.291
26) 2,4'-DDD	0.00	12.82f	0	30036	N.D.	4.836 #
27) 2,4'-DDT	14.28	0.00	83314	0	5.479	N.D. d#

Signal #1 : J:\GC23\DATA\062514\0625F015.D\ECD1A.CH Vial: 14
 Signal #2 : J:\GC23\DATA\062514\0625F015.D\ECD2B.CH
 Acq On : 25 Jun 2014 8:57 pm Operator: SMURRAY
 Sample : K1405818-001 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:11:52 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

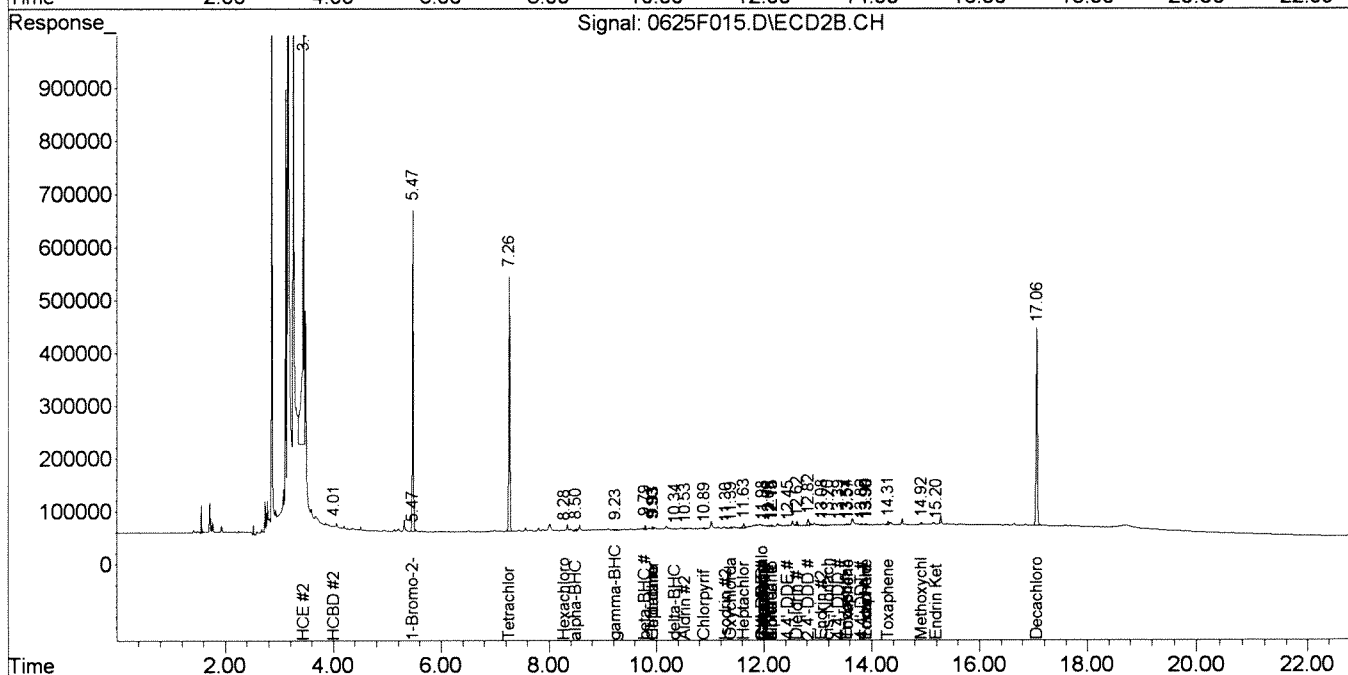
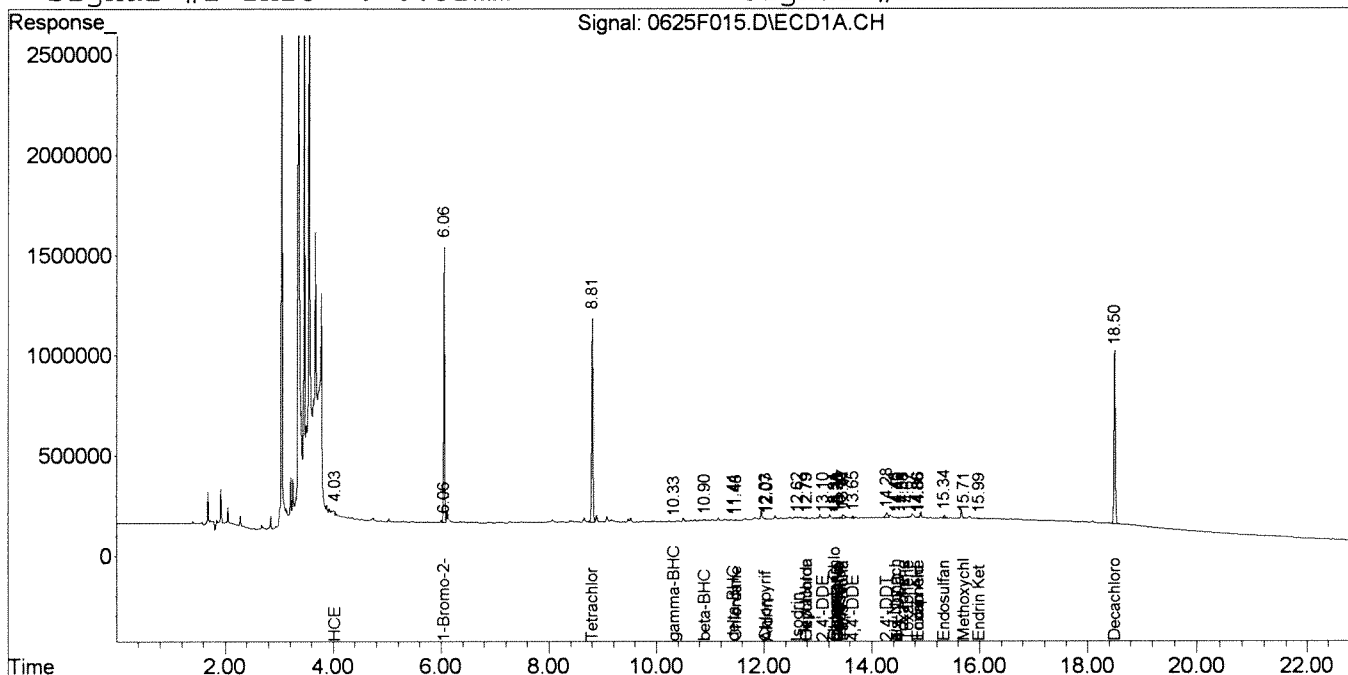
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
30) Toxaphene	14.58	13.57f	4237	2232	33.421	14.876 #
31) Toxaphene {2}	14.67	0.00	7628	0	40.798	N.D. d#
32) Toxaphene {3}	0.00	13.90f	0	3548	N.D. d	44.472
33) Toxaphene {4}	14.86	14.31	10874	11879	39.011	122.548 #
38) Chlordane {2}	11.48f	9.93	8052	8875	6.171	17.586 #
39) Chlordane {3}	0.00	11.98	0	1982	N.D. d	1.761
40) Chlordane {4}	13.31	11.98f	7608	1982	2.535	2.933
41) Chlordane {5}	13.38	12.09	7005	1416	3.159	3.744
42) Chlordane {6}	0.00	12.15	0	4540	N.D. d	4.943
44) Chlorpyrifos	12.03f	10.89	6831	3438	0.660	0.085 #
45) Oxychlordane	12.79f	11.39	5190	4323	0.253	0.490 #
46) cis-Nonachlor	14.45f	13.20	3134	3085	0.127	0.278 #
47) trans-Nonachlor	13.47	11.98f	63637	1982	2.596	0.183 #
49) HCE	4.03	3.44	28136	1343447	0.621	75.151 #
50) HCBd	0.00	4.01	0	1199	N.D.	0.084 #

Signal #1 : J:\GC23\DATA\062514\0625F015.D\ECD1A.CH Vial: 14
 Signal #2 : J:\GC23\DATA\062514\0625F015.D\ECD2B.CH
 Acq On : 25 Jun 2014 8:57 pm Operator: SMURRAY
 Sample : K1405818-001 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 13:29 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

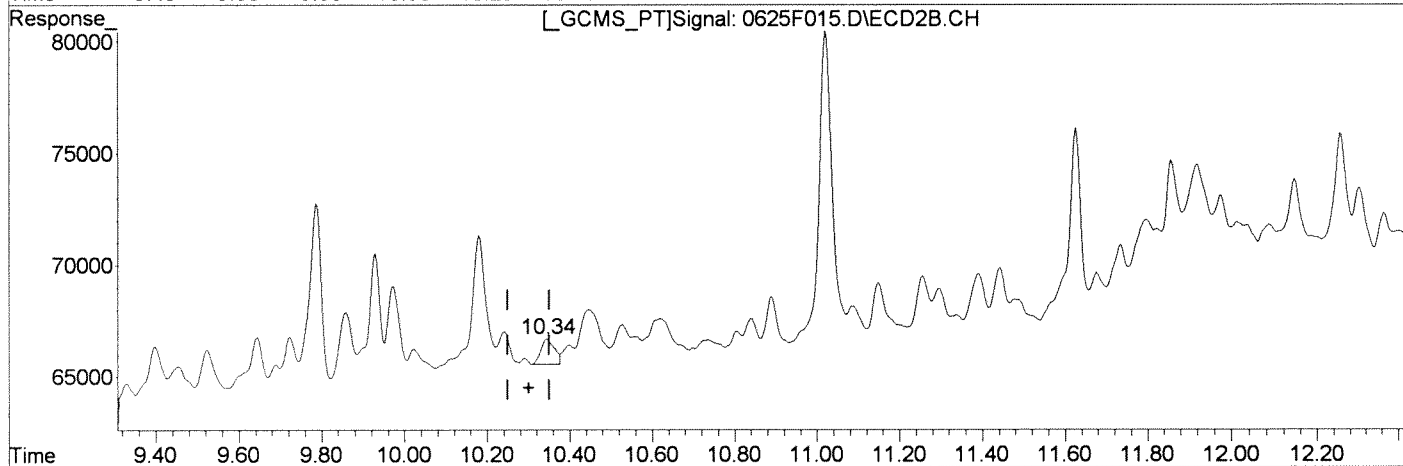
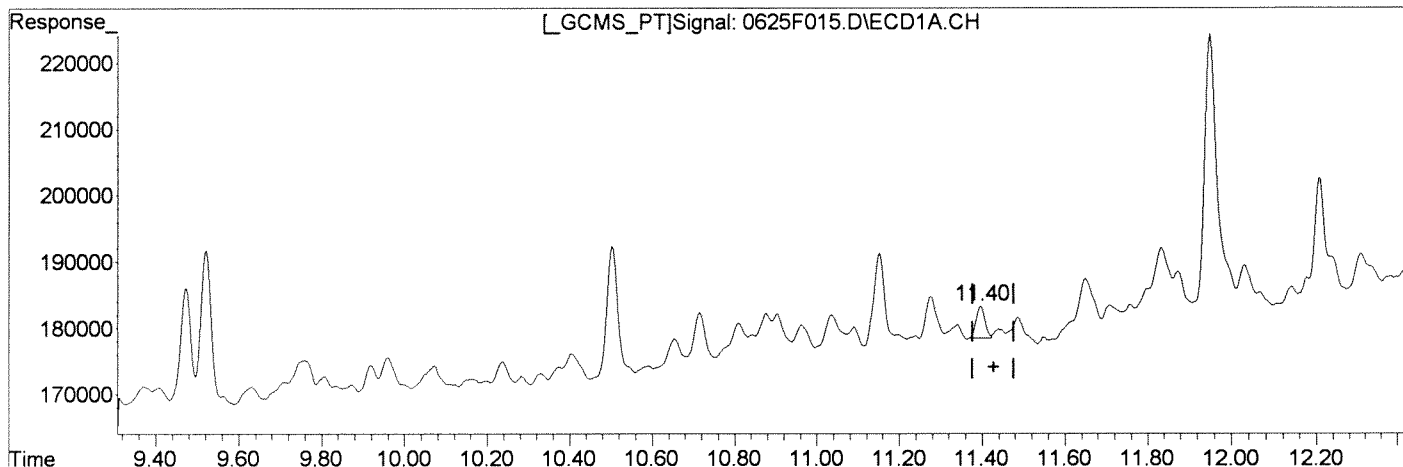
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F015.D\ECD1A.CH Vial: 14
Signal #2 : J:\GC23\DATA\062514\0625F015.D\ECD2B.CH
Acq On : 25 Jun 2014 8:57 pm Operator: SMURRAY
Sample : K1405818-001 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:11 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F015.D\ECD1A.CH

Retention Time	Concentration	Response	Integration Status
(7) delta-BHC	11.40min	0.265ug/L	Manual Integration: Before
		response 7017	
(7) delta-BHC #2	10.34min	0.244ug/L	06/26/14
		response 2716	

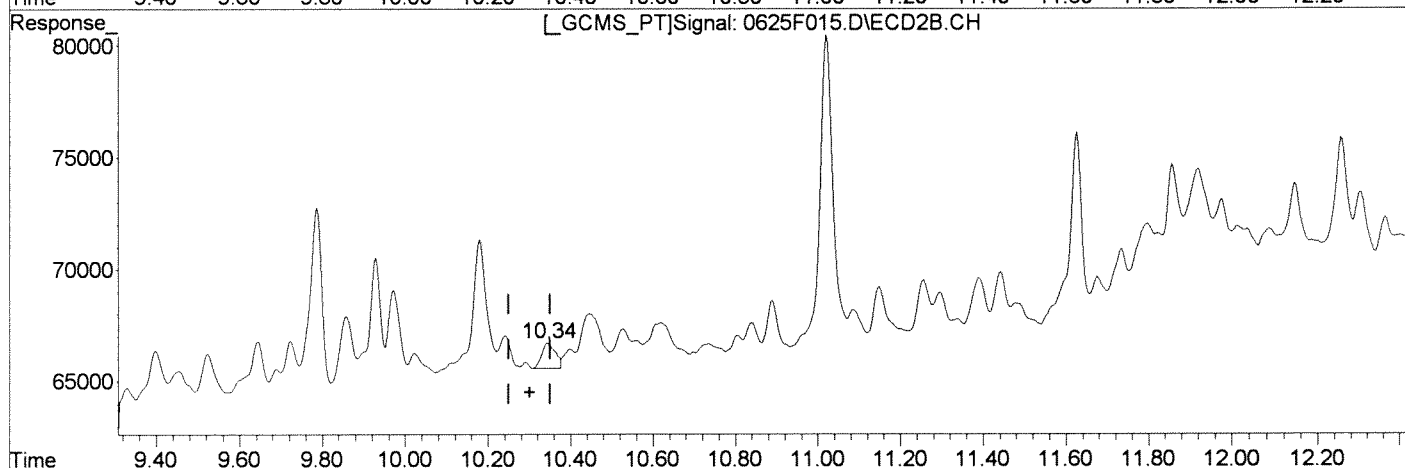
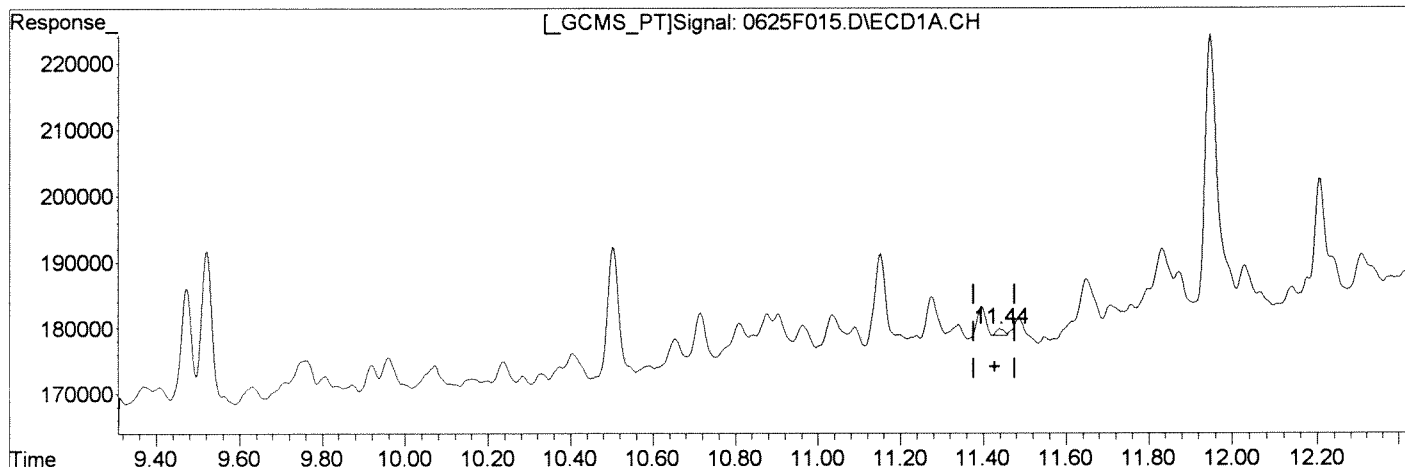
(+) = Expected Retention Time
0625F015.D GC23-031714-8081.M

Thu Jun 26 13:28:20 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F015.D\ECD1A.CH Vial: 14
Signal #2 : J:\GC23\DATA\062514\0625F015.D\ECD2B.CH
Acq On : 25 Jun 2014 8:57 pm Operator: SMURRAY
Sample : K1405818-001 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:11 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F015.D\ECD1A.CH

(7) delta-BHC	Manual Integration:
11.44min 0.054ug/L m	After
response 1432	Wrong Peak
	06/26/14
(7) delta-BHC #2	
10.34min 0.244ug/L	
response 2716	

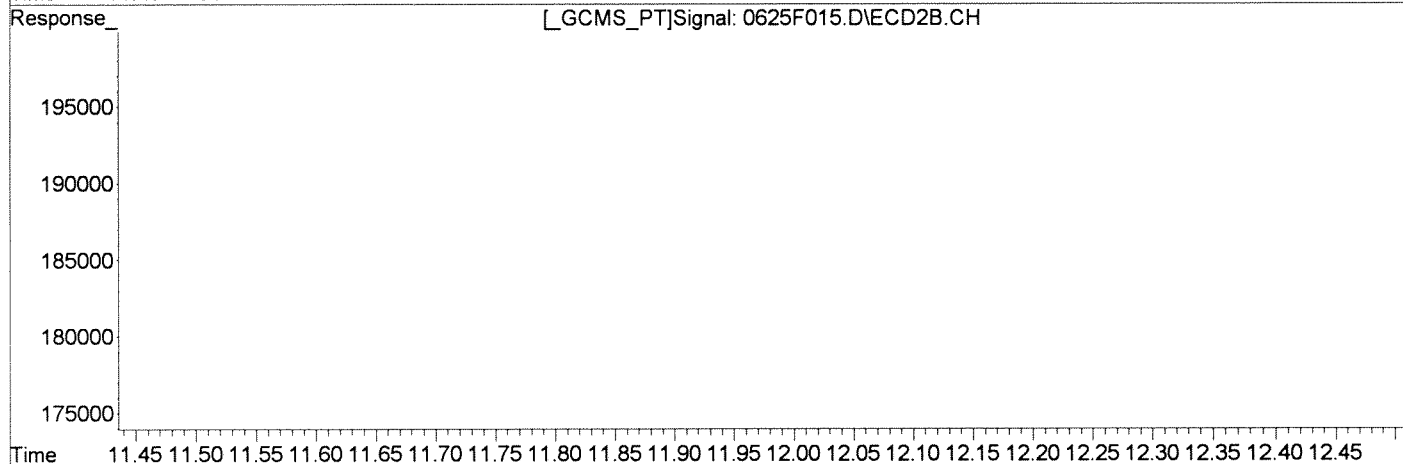
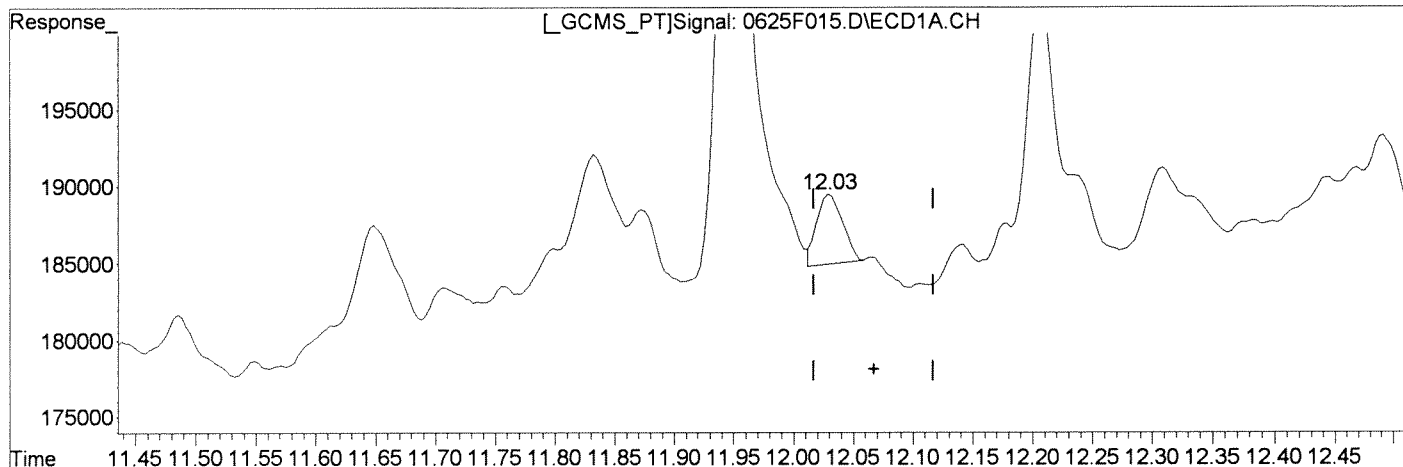
(+) = Expected Retention Time
0625F015.D GC23-031714-8081.M

Thu Jun 26 13:28:24 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F015.D\ECD1A.CH Vial: 14
Signal #2 : J:\GC23\DATA\062514\0625F015.D\ECD2B.CH
Acq On : 25 Jun 2014 8:57 pm Operator: SMURRAY
Sample : K1405818-001 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:11 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F015.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(9) Aldrin		
12.03min	0.253ug/L	response 6831
(9) Aldrin #2		
10.53min	0.166ug/L	response 1939

Manual Integration:
Before
06/26/14

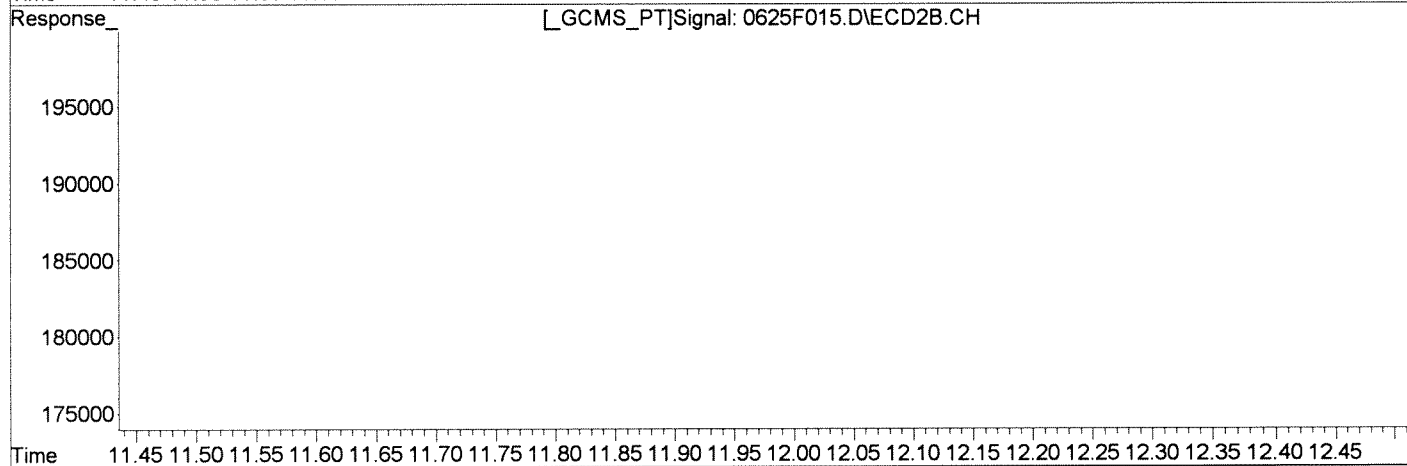
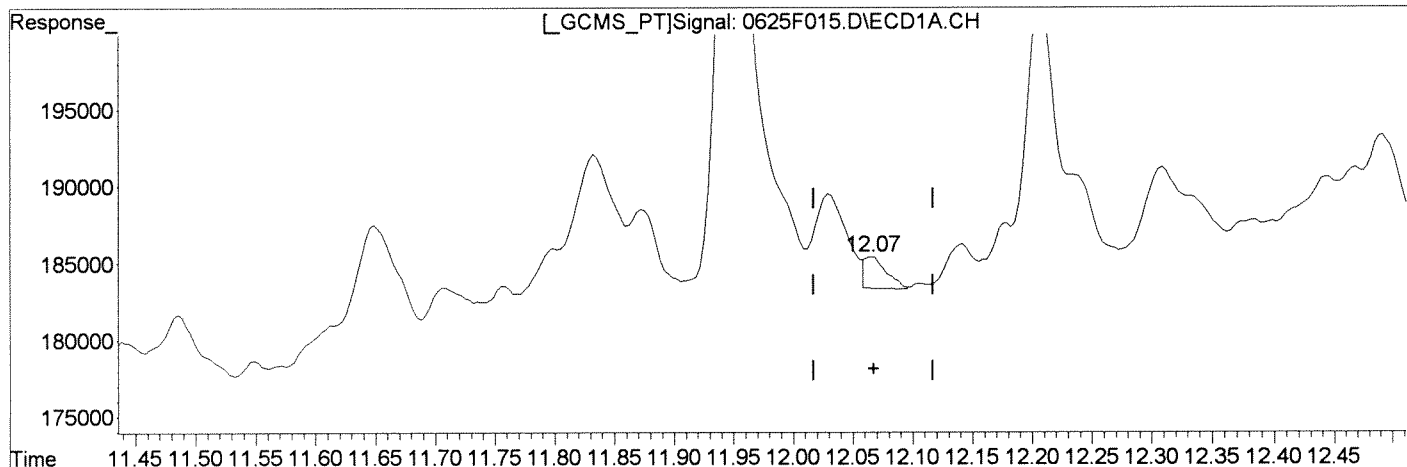
(+) = Expected Retention Time
0625F015.D GC23-031714-8081.M

Thu Jun 26 13:28:30 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F015.D\ECD1A.CH Vial: 14
Signal #2 : J:\GC23\DATA\062514\0625F015.D\ECD2B.CH
Acq On : 25 Jun 2014 8:57 pm Operator: SMURRAY
Sample : K1405818-001 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:11 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F015.D\ECD1A.CH

(9) Aldrin	Manual Integration:
12.07min 0.090ug/L m	After
response 2426	Wrong Peak
	06/26/14
(9) Aldrin #2	
10.53min 0.166ug/L	
response 1939	

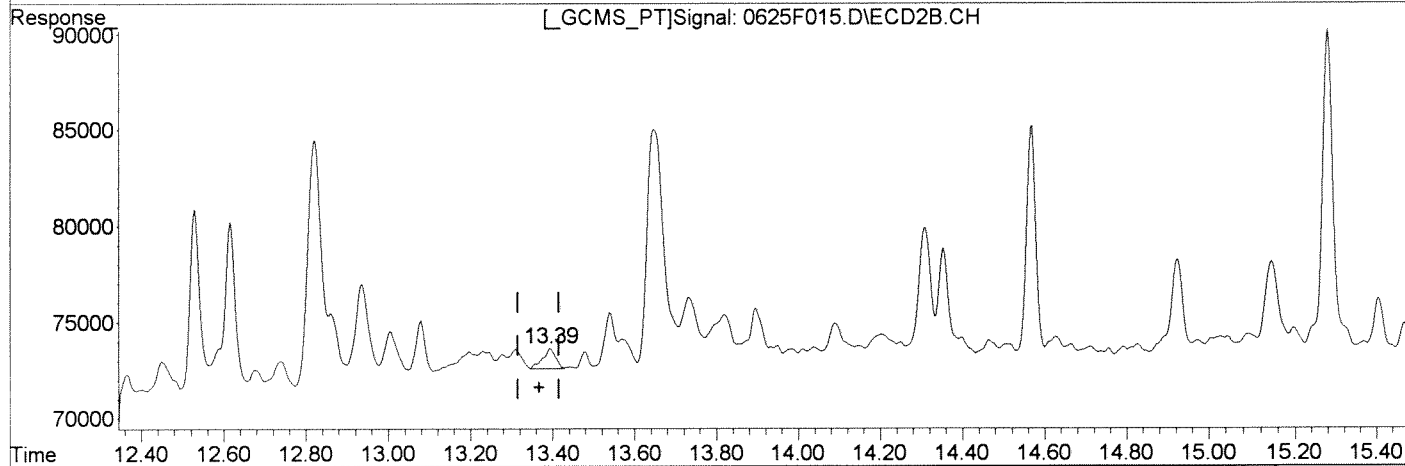
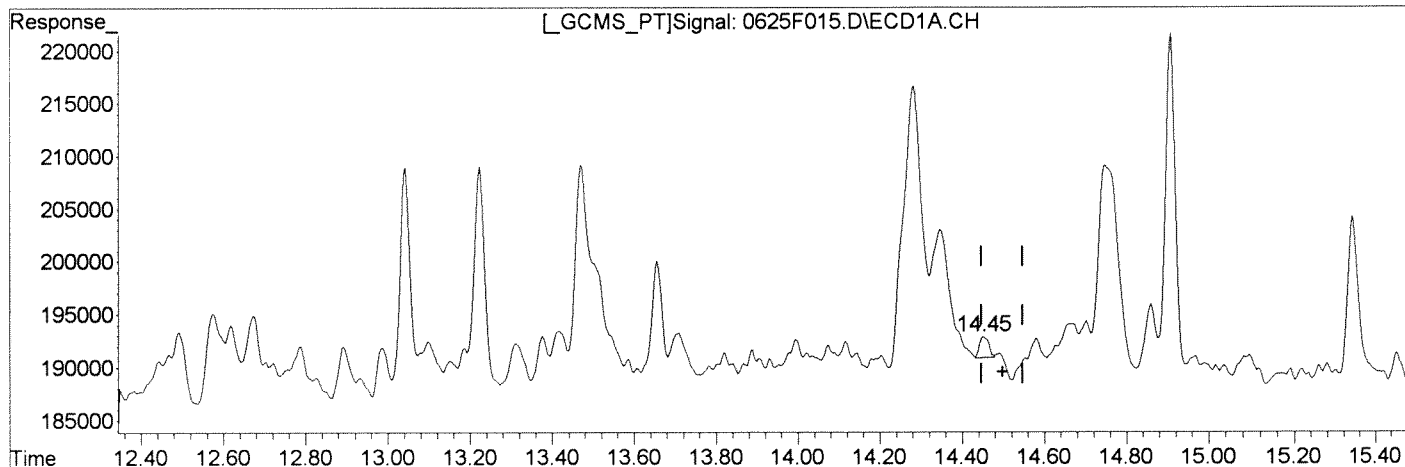
(+) = Expected Retention Time
0625F015.D GC23-031714-8081.M

Thu Jun 26 13:28:33 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F015.D\ECD1A.CH Vial: 14
Signal #2 : J:\GC23\DATA\062514\0625F015.D\ECD2B.CH
Acq On : 25 Jun 2014 8:57 pm Operator: SMURRAY
Sample : K1405818-001 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:11 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F015.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(19) 4,4'-DDD	0.159	3134
(19) 4,4'-DDD #2	0.290	2376

Manual Integration:
Before
06/26/14

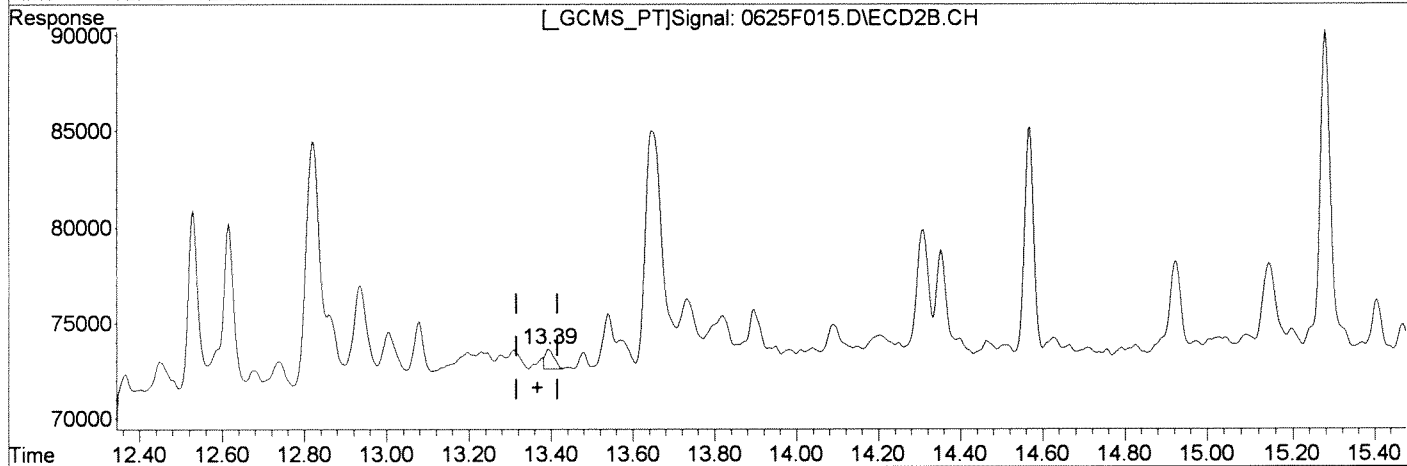
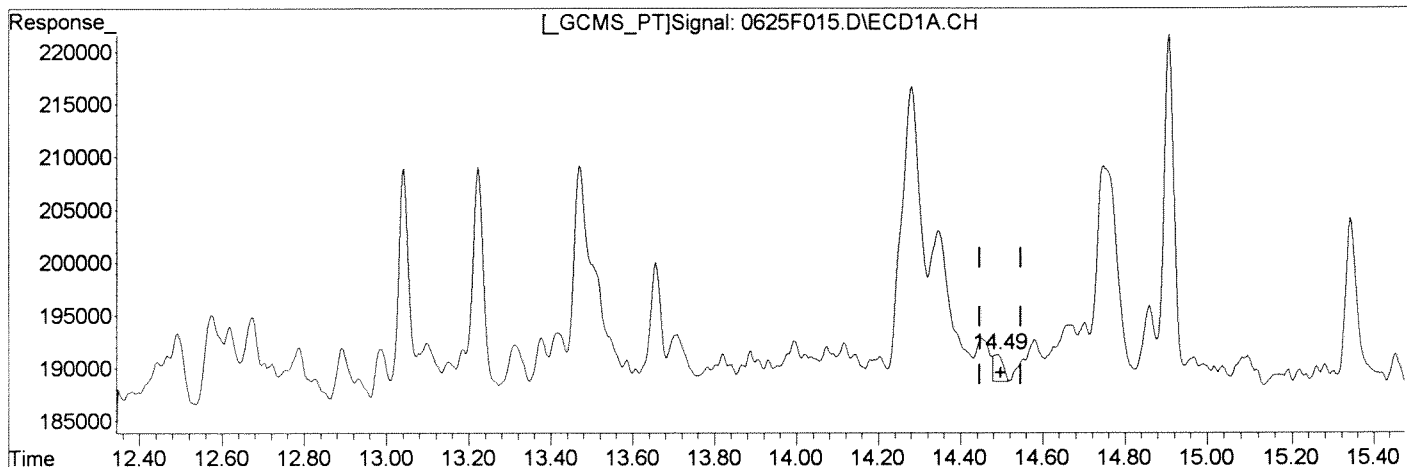
(+) = Expected Retention Time
0625F015.D GC23-031714-8081.M

Thu Jun 26 13:28:53 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F015.D\ECD1A.CH Vial: 14
Signal #2 : J:\GC23\DATA\062514\0625F015.D\ECD2B.CH
Acq On : 25 Jun 2014 8:57 pm Operator: SMURRAY
Sample : K1405818-001 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:11 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F015.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L m)	Response
(19) 4,4'-DDD	14.49min 0.195ug/L m	response 3855
(19) 4,4'-DDD #2	13.39min 0.189ug/L m	response 1552

Manual Integration:
After
Baseline/Shoulder
06/26/14

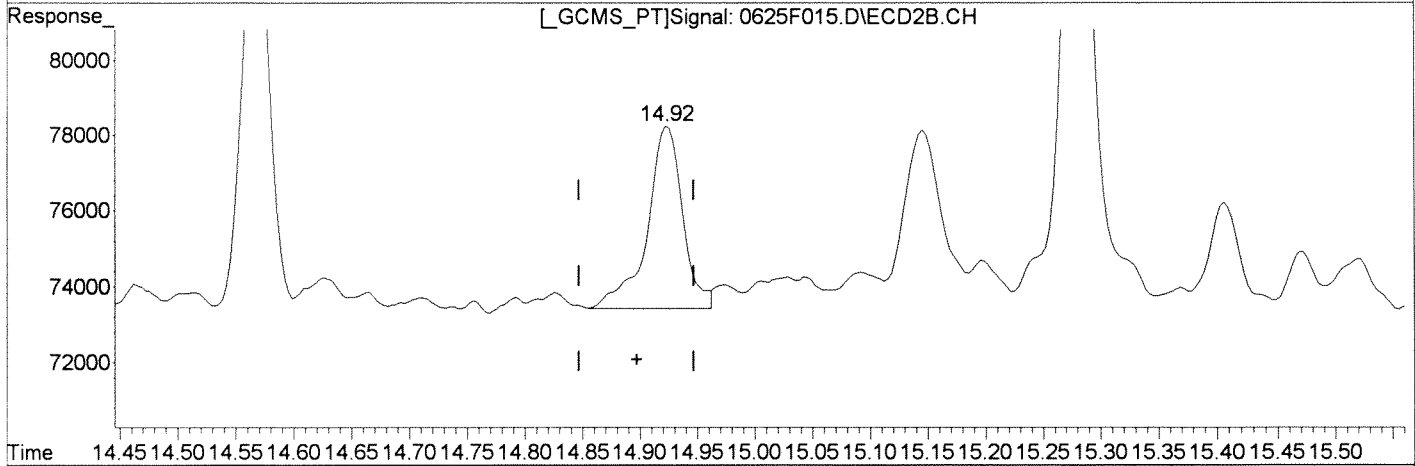
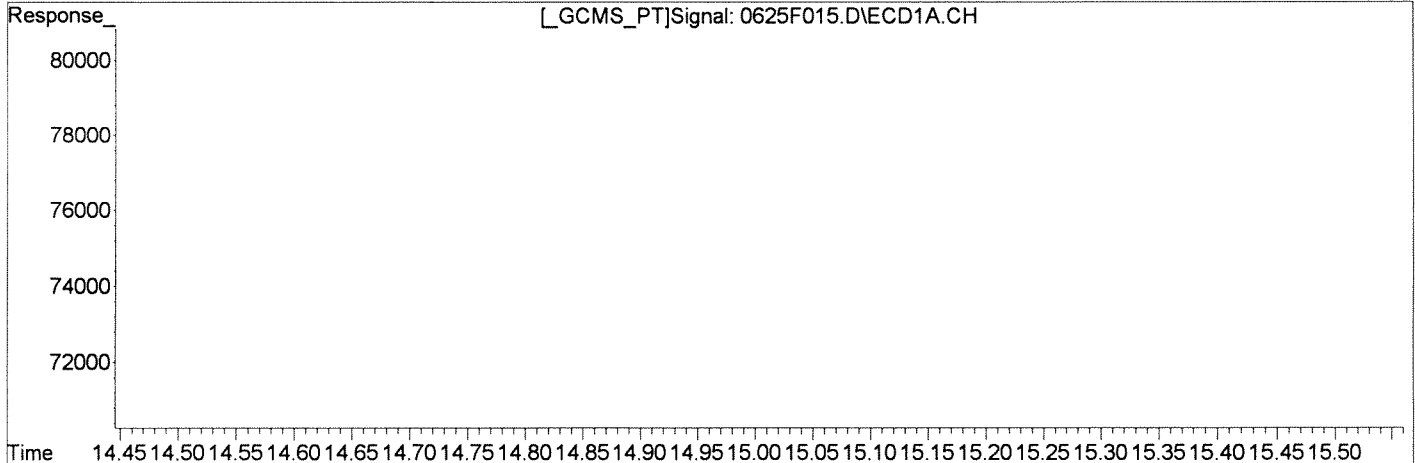
(+) = Expected Retention Time
0625F015.D GC23-031714-8081.M

Thu Jun 26 13:29:01 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F015.D\ECD1A.CH Vial: 14
Signal #2 : J:\GC23\DATA\062514\0625F015.D\ECD2B.CH
Acq On : 25 Jun 2014 8:57 pm Operator: SMURRAY
Sample : K1405818-001 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:11 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F015.D\ECD1A.CH	
(24) Methoxychlor	Manual Integration:
15.71min 0.958ug/L	Before
response 8912	06/26/14
(24) Methoxychlor #2	
14.92min 2.614ug/L	
response 10375	

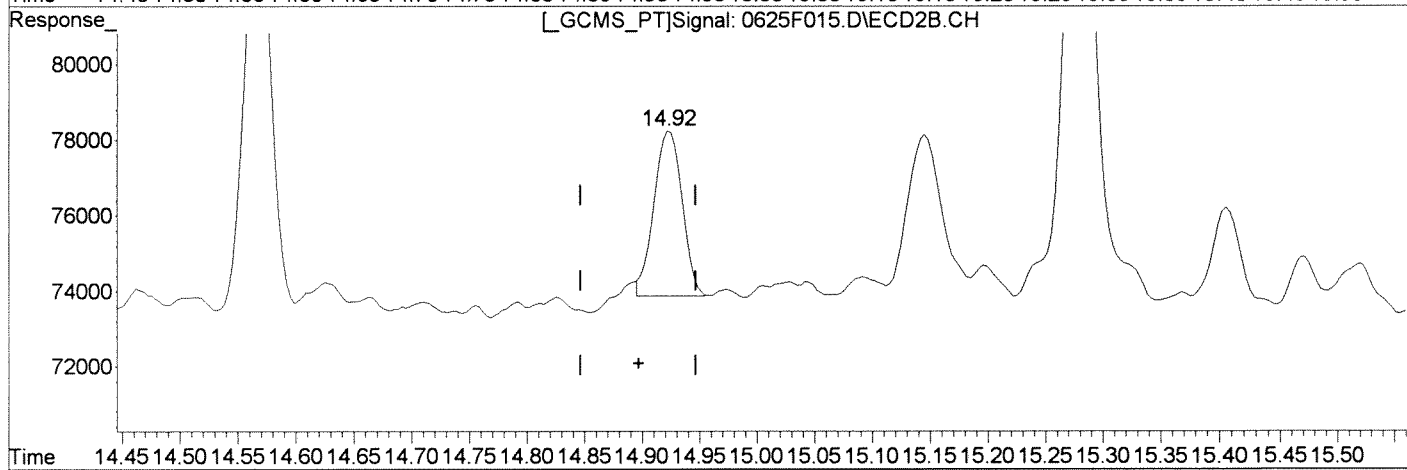
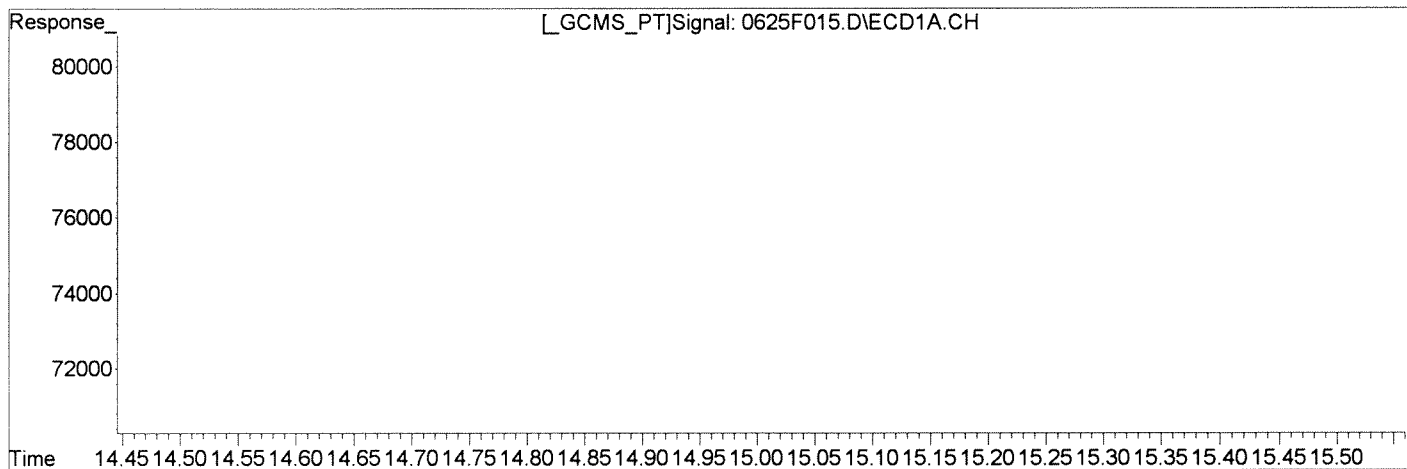
(+) = Expected Retention Time
0625F015.D GC23-031714-8081.M

Thu Jun 26 13:29:11 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F015.D\ECD1A.CH Vial: 14
Signal #2 : J:\GC23\DATA\062514\0625F015.D\ECD2B.CH
Acq On : 25 Jun 2014 8:57 pm Operator: SMURRAY
Sample : K1405818-001 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:11 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F015.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
15.71	0.958	8912
14.92	1.875	7441

Manual Integration:
After
Baseline/Shoulder
06/26/14

(+) = Expected Retention Time
0625F015.D GC23-031714-8081.M

Thu Jun 26 13:29:13 2014

Exception Report

Data File: J:\GC23\DATA\062514\0625F029.D
Lab ID: K1405818-002
RunType: SMPL
Matrix: WATER

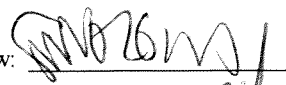
Date Acquired: 06/26/2014 03:51
Date Quantitated: 06/26/2014 14:01
Batch ID: KWG1406791
Analysis Method: 8081B
ListJoinID: LJ13160

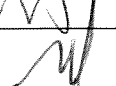
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		x
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	IC
Lab Control Spike	Toxaphene {2}	198	36	137	MFA
	Toxaphene {3}	0	36	137	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.05	NA	NA	C
	Endosulfan I	13.43	NA	NA	
	alpha-Chlordane	13.43	NA	NA	
	Dieldrin	13.83	NA	NA	
	2,4'-DDD	13.83	NA	NA	
	1-Bromo-2-nitrobenzene {2}	6.05	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.05	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.05	NA	NA	SA

Primary Review: 

Secondary Review: 

Exception Report

Data File: J:\GC23\DATA\062514\0625F029.D\0625F029C.D
Lab ID: K1405818-002
RunType: SMPL
Matrix: WATER

Date Acquired: 06/26/2014 03:51
Date Quantitated: 06/26/2014 14:01
Batch ID: KWG1406791
Analysis Method: 8081B
ListJoinID: LJ13160

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		x
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Lab Control Spike	Toxaphene {2}	198	36	137	
	Toxaphene {3}	0	36	137	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.47	NA	NA	
	gamma-Chlordane	12.01	NA	NA	
	2,4'-DDE	12.01	NA	NA	
	2,4'-DDT	13.21	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {4}	5.47	NA	NA	
	cis-Nonachlor	13.21	NA	NA	
	trans-Nonachlor	12.01	NA	NA	

Primary Review:

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F029.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F029.D\0625F029c.d	Vial:	22
Acqu Date:	06/26/2014 03:51	Quant Date:	06/26/2014 14:01
Run Type:	SMPL	Dilution:	1.0
Lab ID:	K1405818-002	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:	V	Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:	06/12/2014	Receive Date:	06/12/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	K1405818
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1350994	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:	Organochlorine Pesticides	Report List ID:	LJ13160
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Method ID:	MJ1013
Quant based on Report List			

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.05 ^{-0.11c}	5.47 ^{-0.09c}	2083551	794981	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.05 ^{+0.13c}	5.47 ^{+0.08c}	2083551	794981	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.05 ^{+0.05c}	5.47 ^{+0.03c}	2083551	794981	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.05 ^{+0.13c}	5.47 ^{+0.08c}	2083551	794981	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.80 ^{-0.02}	7.26 ^{-0.01}	1677797	686816	67.42	65.47	67 OK
						%Recovery =	67 OK 65 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{-0.01}	17.06 ^{-0.02}	1487058	592384	67.58	66.62	68 OK
						%Recovery =	68 OK 67 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC	9.63 ^{-0.03}	8.46 ^{-0.05}	5209	833	0.1620	0.0660	0.00035U	0.00035U	0.00035U
1	beta-BHC		9.78 ^{-0.01}	0d	2037	0.0000	0.3500	0.00086U	0.00086U	0.00086U
1	gamma-BHC (Lindane)		9.23 ^{-0.03}	0d	1683	0.0000	0.1440	0.00046U	0.00046U	0.00046U
1	delta-BHC		10.34 ^{+0.02}	0d	1930	0.0000	0.1680	0.00059U	0.00059U	0.00059U
1	Heptachlor	11.51 ^{-0.03}	9.93 ^{-0.01}	11528	24876	0.4010	2.28	0.00083J	0.0047J	0.00083Ui
1	Aldrin		10.52 ^{-0.01}	0d	3301	0.0000	0.2740	0.00042U	0.00056J	0.00042U
1	Heptachlor Epoxide		11.62 ^{+0.01}	0d	9569	0.0000	0.8940	0.00033U	0.0018J	0.00033U
1	gamma-Chlordane	13.31 ^{-0.01}	12.01 ^{+0.02c}	29729	1045m	1.09	0.0930	0.0022J	0.00033U	0.00033U
1	Endosulfan I	13.43 ^{-0.01c}	12.18 ^{-0.02}	7863	947	0.3230	0.0980	0.00067J	0.00046U	0.00046U

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F029.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F029.D\0625F029c.d	Vial:	22
Acqu Date:	06/26/2014 03:51	Quant Date:	06/26/2014 14:01
Run Type:	SMPL	Dilution:	1.0
Lab ID:	K1405818-002	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-Chlordane	13.43 ^{+0.04c}	12.09 ^{-0.04}	7863	1854m	0.2920	0.1690	0.0042U	0.0042U	0.0042U
1	Dieldrin	13.83 ^{-0.03c}	12.63 ^{-0.02}	2911	1538m	0.1120	0.1410	0.00037U	0.00037U	0.00037U
1	4,4'-DDE	13.66 ^{-0.01}	12.48 ^{-0.01}	27035	8694	1.03	0.8020	0.0021J	0.0017J	0.0017J
1	Endrin	14.19 ^{-0.04}	13.11 ^{-0.02}	3203	592m	0.1410	0.0630	0.00071U	0.00071U	0.00071U
1	Endosulfan II	14.66 ^{-0.02}	13.52 ^{-0.04}	15262	732	0.6780	0.0810	0.0014J	0.00042U	0.00042U
1	4,4'-DDD		13.37 ^{-0.01}	0d	1875	0.0000	0.2220	0.0016U	0.0016U	0.0016U
1	Endrin Aldehyde	14.86	13.90 ^{-0.02}	10349	199m	0.7010	0.0290	0.0014J	0.00048U	0.00048U
1	4,4'-DDT	15.02 ^{+0.01}		6265	0d	0.3290	0.0000	0.00068J	0.00060U	0.00060U
1	Endrin Ketone		15.19 ^{-0.01}	0	1241	0.0000	0.1200	0.00069U	0.00069U	0.00069U
1	Methoxychlor	15.71 ^{-0.05}		10683	0d	1.06	0.0000	0.0022J	0.00096U	0.00096U
1	2,4'-DDE	13.08 ^{-0.01}	12.01 ^{-0.01c}	3127m	2358	0.1800	0.3360	0.00052U	0.00069J	0.00052U
1	2,4'-DDD	13.83 ^{+0.01c}	12.82 ^{+0.02}	2911	39285	0.1840	6.14	0.00059U	0.013	0.00059U
1	2,4'-DDT	14.28 ^{-0.04}	13.21 ^{-0.01c}	18662m	3567	1.13	0.5240	0.0023J	0.0011J	0.0023JP
2	Toxaphene {1}		13.57 ^{-0.03}	0d	2960	0.0000	19.14	0.053U	0.053U	0.053U
	Toxaphene			0	0	38.30	71.24	0.079J	0.15J	0.079JP
2	Toxaphene {2}	14.66 ^{+0.01}	13.64 ^{-0.02}	15262	13957m	75.17	228.95	0.15J	0.47J	0.47J
2	Toxaphene {3}		13.94 ^{+0.01}	0	4538	0.0000	55.18	0.053U	0.11J	0.11J
2	Toxaphene {4}	14.86 ^{+0.02}	14.32 ^{+0.04}	10349	4105	34.19	41.08	0.070J	0.085J	0.085J
2	Toxaphene {5}	15.18 ^{-0.01}	14.68 ^{+0.01}	8968	2206	29.05	11.85	0.060J	0.053U	0.053U
2	Toxaphene {6}	16.08 ^{+0.01}		6041	0d	14.79	0.0000	0.053U	0.053U	0.053U
3	Chlordane {1}			0d	0d	0.0000	0.0000	0.023U	0.023U	0.023U
	Chlordane			0	0	10.83	3.30	0.023U	0.023U	0.023U
3	Chlordane {2}	11.51 ^{-0.01}		11528	0d	8.14	0.0000	0.023U	0.023U	0.023U
3	Chlordane {3}		12.01 ^{+0.04}	0d	2358	0.0000	2.03	0.023U	0.023U	0.023U
3	Chlordane {4}	13.31 ^{+0.01}	12.01 ^{-0.01}	29729	2358	9.12	3.39	0.023U	0.023U	0.023U
3	Chlordane {5}		12.09 ^{+0.01}	0	2148	0.0000	5.51	0.023U	0.023U	0.023U
3	Chlordane {6}	13.47 ^{+0.01}	12.09 ^{-0.03}	26626	2148	15.23	2.27	0.031J	0.023U	0.023U
4	Oxychlordane		11.39	0d	1352	0.0000	0.1490	0.0011U	0.0011U	0.0011U
4	cis-Nonachlor	14.46 ^{-0.04}	13.21 ^{-0.01c}	2965	3567	0.1110	0.3120	0.00062U	0.00064J	0.00062U
4	trans-Nonachlor	13.47	12.01 ^{-0.01c}	26626	2358	1.00	0.2120	0.0021J	0.00095U	0.00095U
4	Mirex			0	0	0.0000	0.0000	0.00084U	0.00084U	0.00084U

The +/- after Retention Time symbolize the direction of the RT shift

Prep Amount: 970 mL Dilution: 1.0
 Prep Final Vol: 2 mL Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
 Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
 Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
 Sample : K1405818-002 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:20 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.05	5.47	2083551	794981	100.000	100.000
29) 1-Bromo-2-nitrob	6.05	5.47	2083551	794981	100.000	100.000
36) 1-Bromo-2-nitrob	6.05	5.47	2083551	794981	100.000	100.000
43) 1-Bromo-2-nitrob	6.05	5.47	2083551	794981	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.80	7.26	1677797	686816	67.422	65.469
28) s Decachlorobiphen	18.51	17.06	1487058	592384	67.582	66.617
Target Compounds						
3) alpha-BHC	9.63	8.46f	5209	833	0.162	0.066 #
4) Hexachlorobenzen	0.00	8.27	0	5203	N.D. d	0.429
5) beta-BHC	0.00	9.78	0	2037	N.D. d	0.350
6) gamma-BHC (Linda	0.00	9.23	0	1683	N.D. d	0.144
7) delta-BHC	0.00	10.34f	0	1930	N.D. d	0.168
8) Heptachlor	11.51	9.93	11528	24876	0.401	2.284 #
9) Aldrin	0.00	10.52	0	3301	N.D. d	0.274
10) Isodrin	12.60	11.34f	23386	713	0.955	0.071 #
11) Heptachlor Epoxi	0.00	11.62f	0	9569	N.D. d	0.894
12) gamma-Chlordane	13.31	12.01f	29729	1045	1.088	0.093m#
13) Endosulfan I	13.43	12.18	7863	947	0.323	0.098 #
14) alpha-Chlordane	13.43f	12.09f	7863	1854	0.292	0.169m#
15) Dieldrin	13.83	12.63	2911	1538	0.112	0.141m#
16) 4,4'-DDE	13.66	12.48	27035	8694	1.031	0.802
17) Endrin	14.19f	13.11	3203	592	0.141	0.063m#
18) Endosulfan II	14.66	13.52	15262	732	0.678	0.081 #
19) 4,4'-DDD	0.00	13.37	0	1875	N.D. d	0.222
20) Endrin Aldehyde	14.86	13.90	10349	199	0.701	0.029m#
21) Endosulfan Sulfa	0.00	14.21	0	1808	N.D. d	0.216
22) 4,4'-DDT	15.02f	0.00	6265	0	0.329	N.D. d#
23) Endrin Ketone	0.00	15.19	0	1241	N.D.	0.120 #
24) Methoxychlor	15.71f	0.00	10683	0	1.057	N.D. d#
25) 2,4'-DDE	13.08	12.01	3127	2358	0.180m	0.336 #
26) 2,4'-DDD	13.83	12.82f	2911	39285	0.184	6.136 #
27) 2,4'-DDT	14.28	13.21	18662	3567	1.130m	0.524 #

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
 Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
 Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
 Sample : K1405818-002 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:20 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

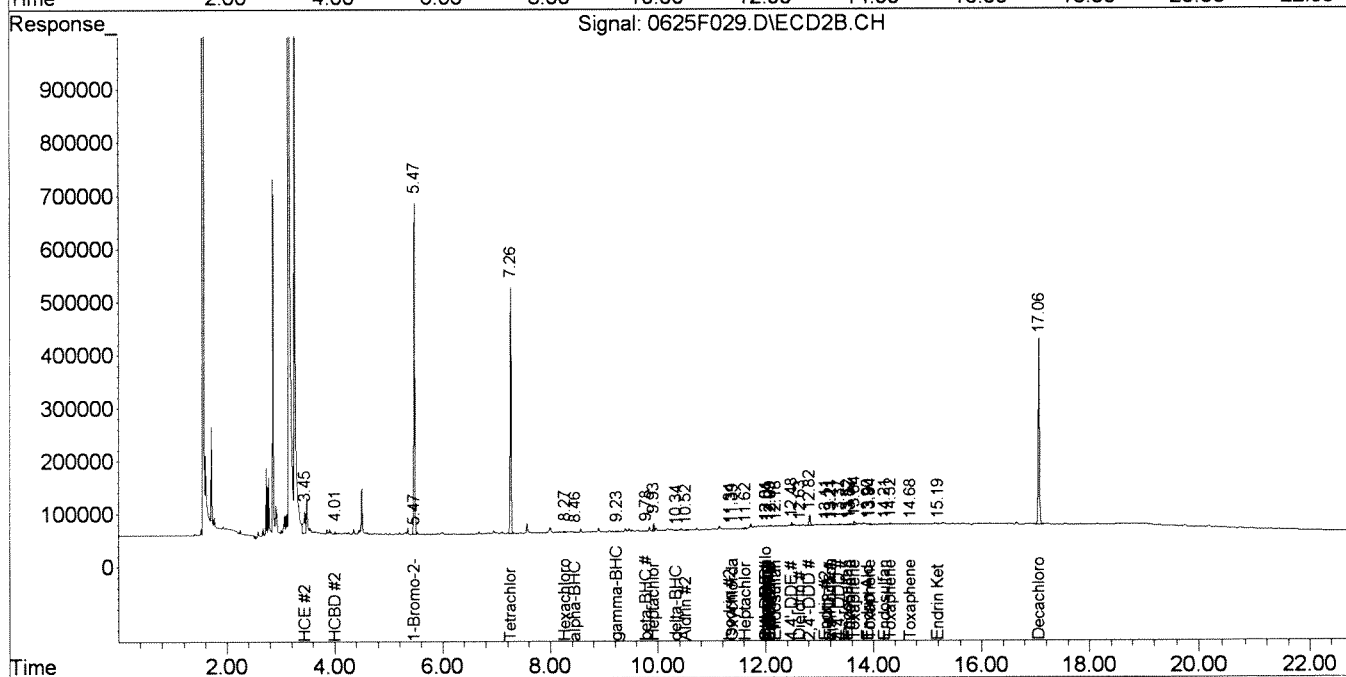
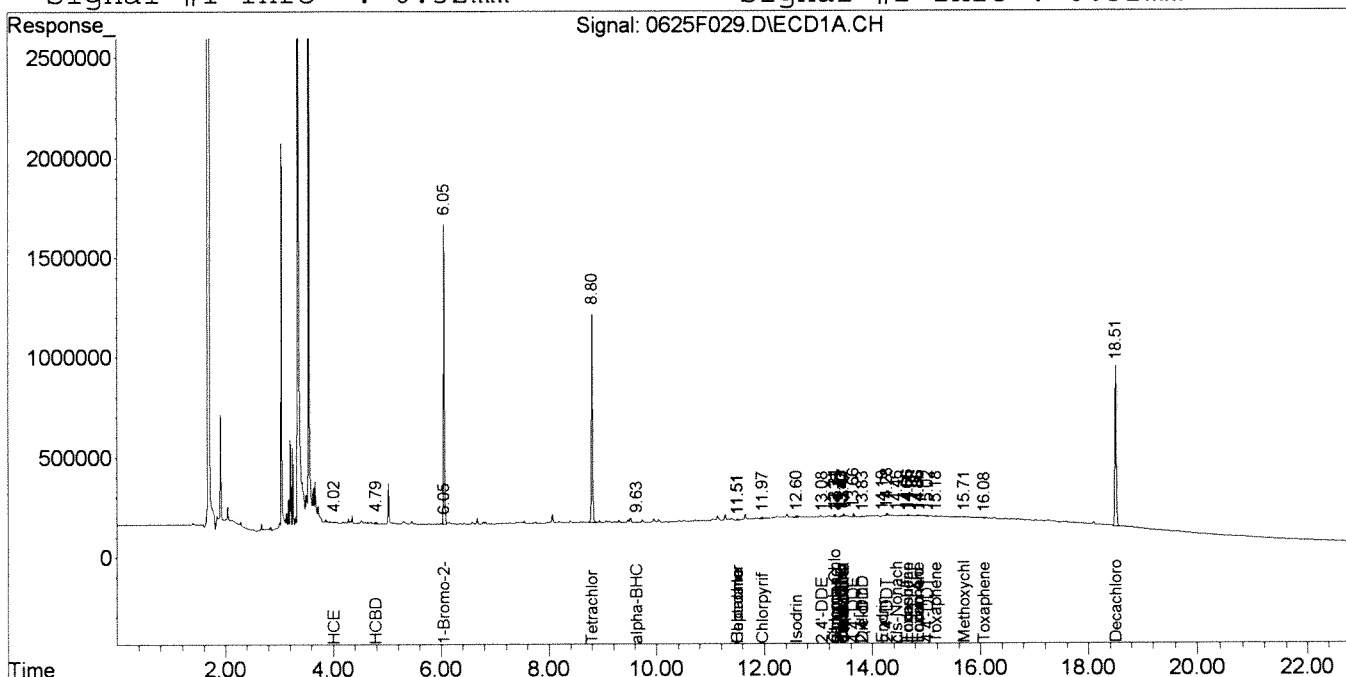
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
30) Toxaphene	0.00	13.57f	0	2960	N.D. d	19.138
31) Toxaphene {2}	14.66	13.64f	15262	13957	75.174	228.949m#
32) Toxaphene {3}	0.00	13.94	0	4538	N.D.	55.180 #
33) Toxaphene {4}	14.86	14.32f	10349	4105	34.191	41.082
34) Toxaphene {5}	15.18	14.68	8968	2206	29.052	11.853 #
35) Toxaphene {6}	16.08	0.00	6041	0	14.790	N.D. d#
38) Chlordane {2}	11.51	0.00	11528	0	8.136	N.D. d#
39) Chlordane {3}	0.00	12.01f	0	2358	N.D. d	2.033
40) Chlordane {4}	13.31	12.01	29729	2358	9.122	3.385 #
41) Chlordane {5}	0.00	12.09	0	2148	N.D.	5.510 #
42) Chlordane {6}	13.47	12.09f	26626	2148	15.233	2.269 #
44) Chlorpyrifos	11.97	10.88	21429	1866	1.907	BelowCal #
45) Oxychlordane	0.00	11.39	0	1352	N.D. d	0.149
46) cis-Nonachlor	14.46f	13.21	2965	3567	0.111	0.312 #
47) trans-Nonachlor	13.47	12.01	26626	2358	1.000	0.212 #
49) HCE	4.02	3.45	5532	94098	0.112	5.106 #
50) HCBd	4.79	4.01	18873	4401	0.501	0.298 #

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
 Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
 Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
 Sample : K1405818-002 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:01 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

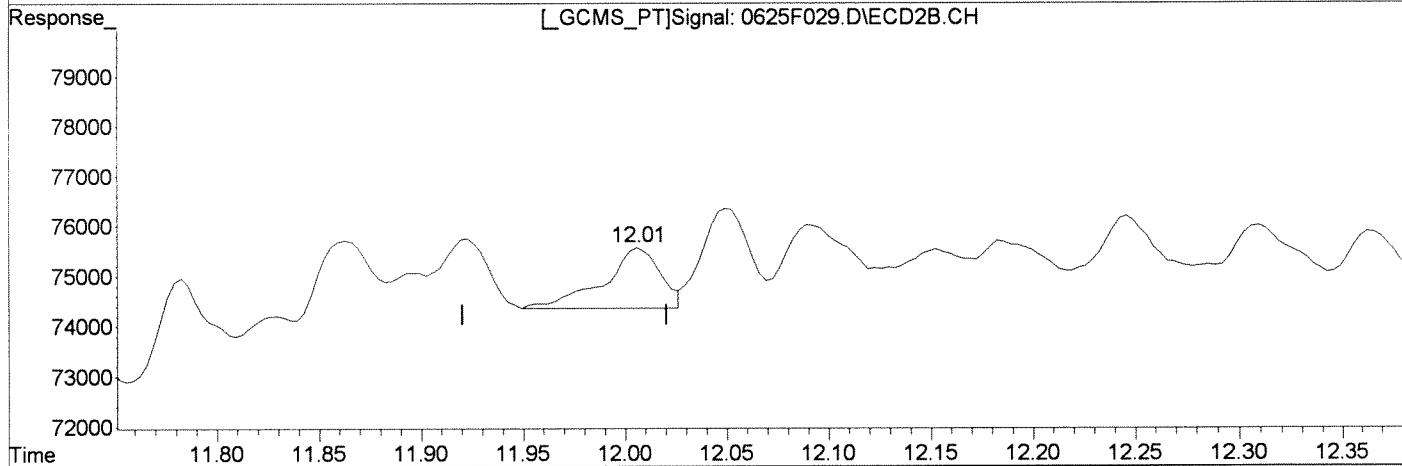
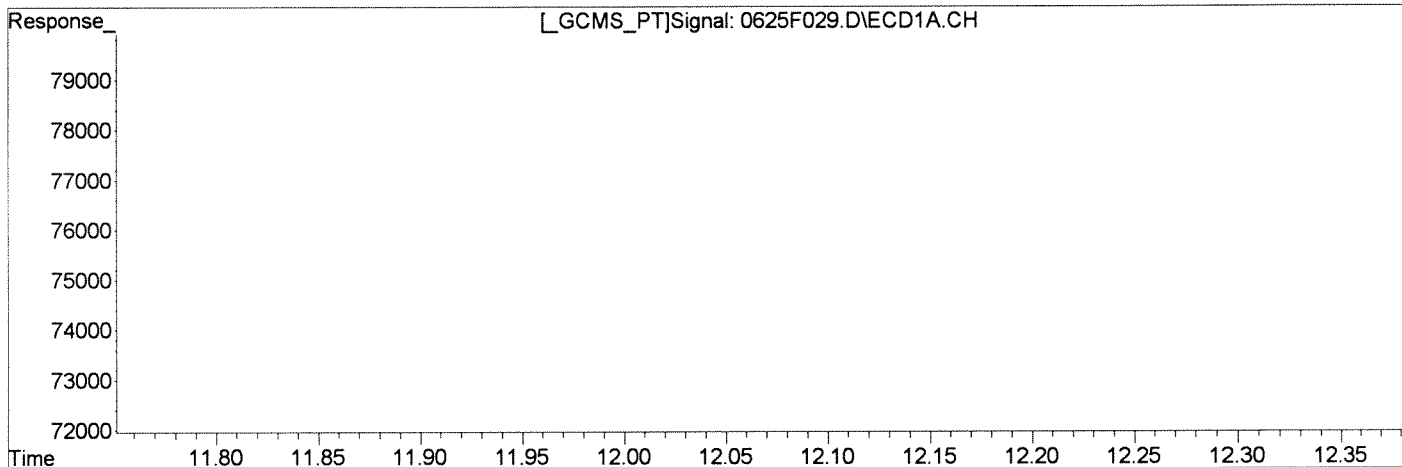
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
13.31	1.088	29729
12.01	0.211	2358

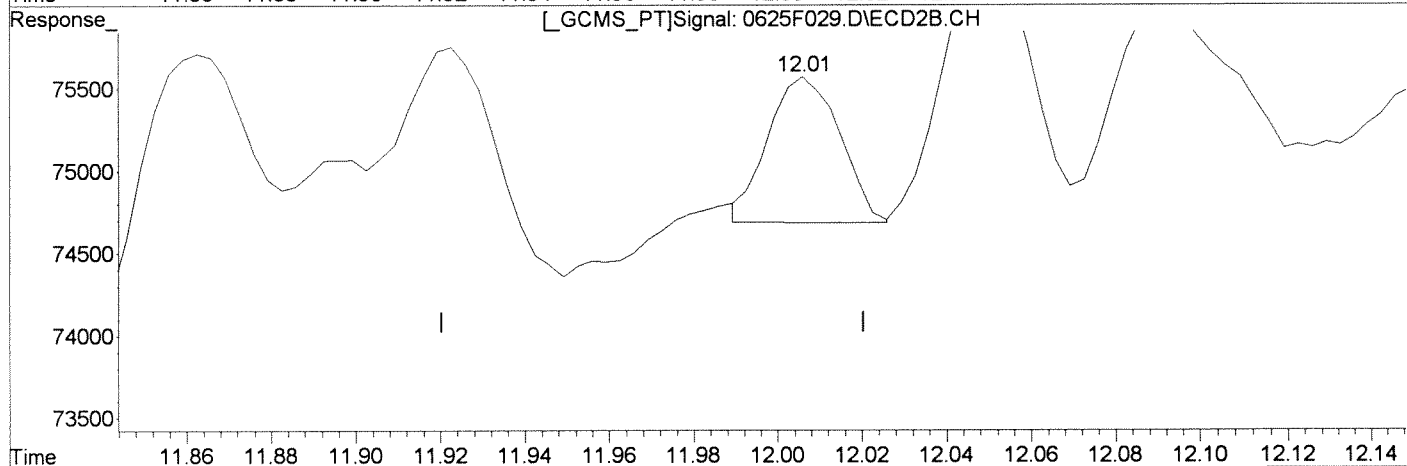
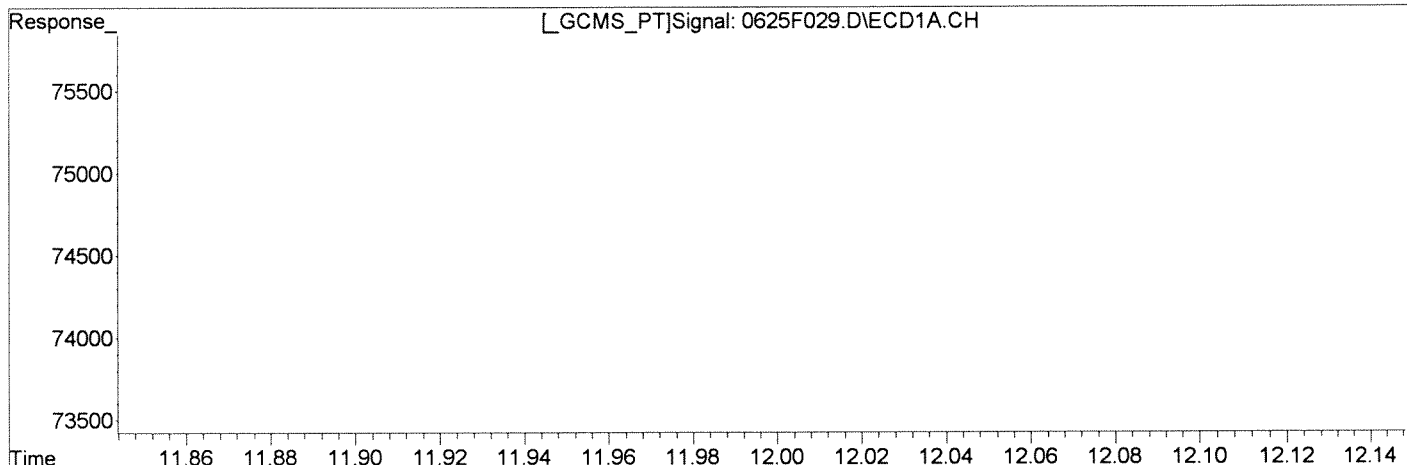
Manual Integration:
Before
06/26/14

(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M Thu Jun 26 13:59:47 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH	
(12) gamma-Chlordane	Manual Integration:
13.31min 1.088ug/L	After
response 29729	Baseline/Shoulder
	06/26/14
(12) gamma-Chlordane #2	
12.01min 0.093ug/L m	
response 1045	

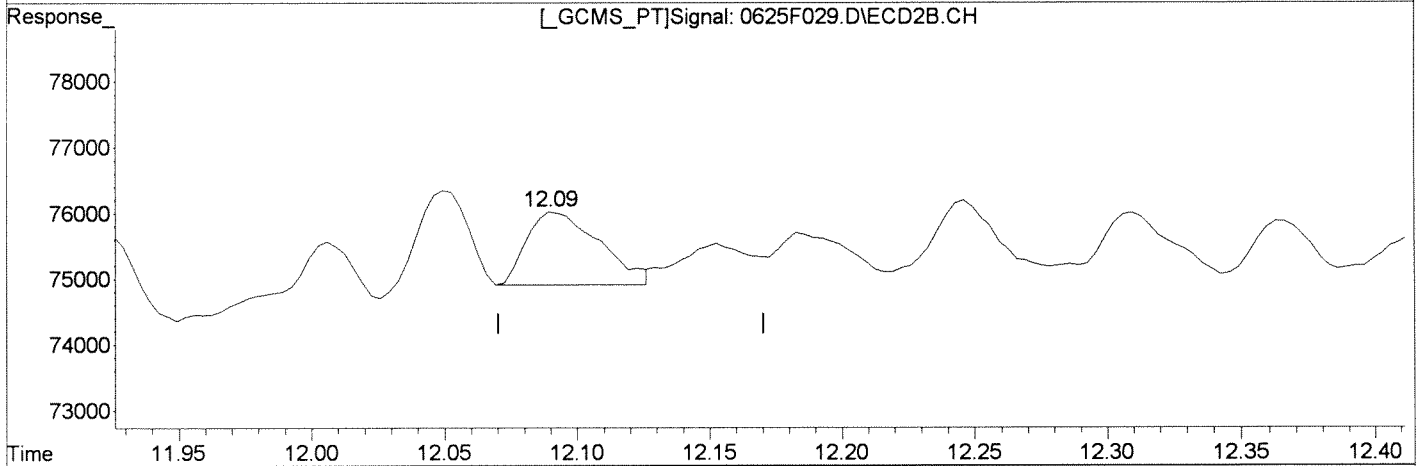
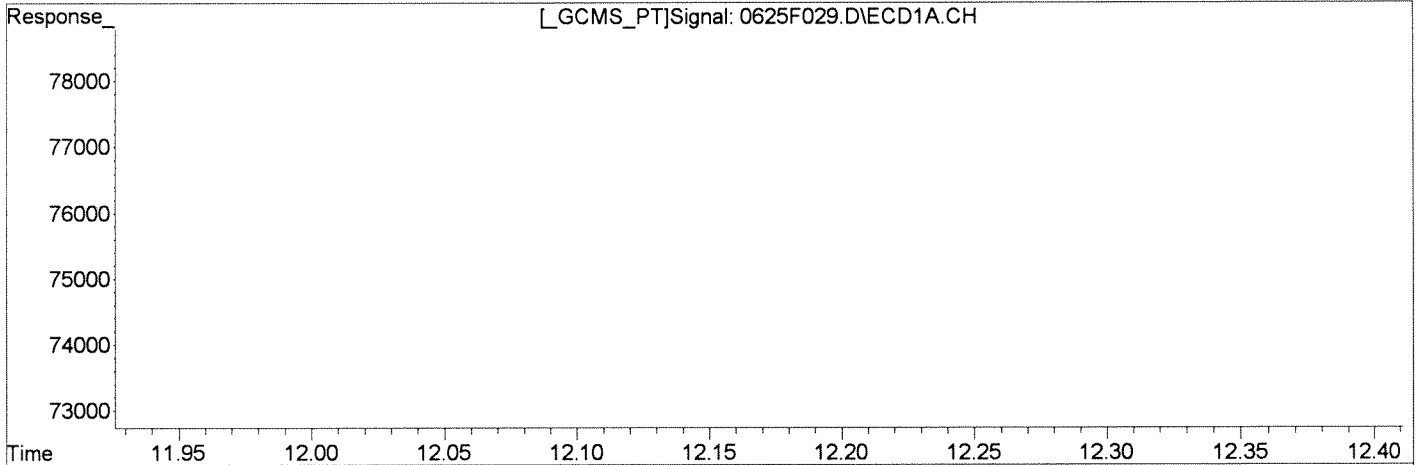
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 13:59:50 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH	
(14) alpha-Chlordane	Manual Integration:
13.43min 0.292ug/L	Before
response 7863	06/26/14
(14) alpha-Chlordane #2	
12.09min 0.196ug/L	
response 2148	

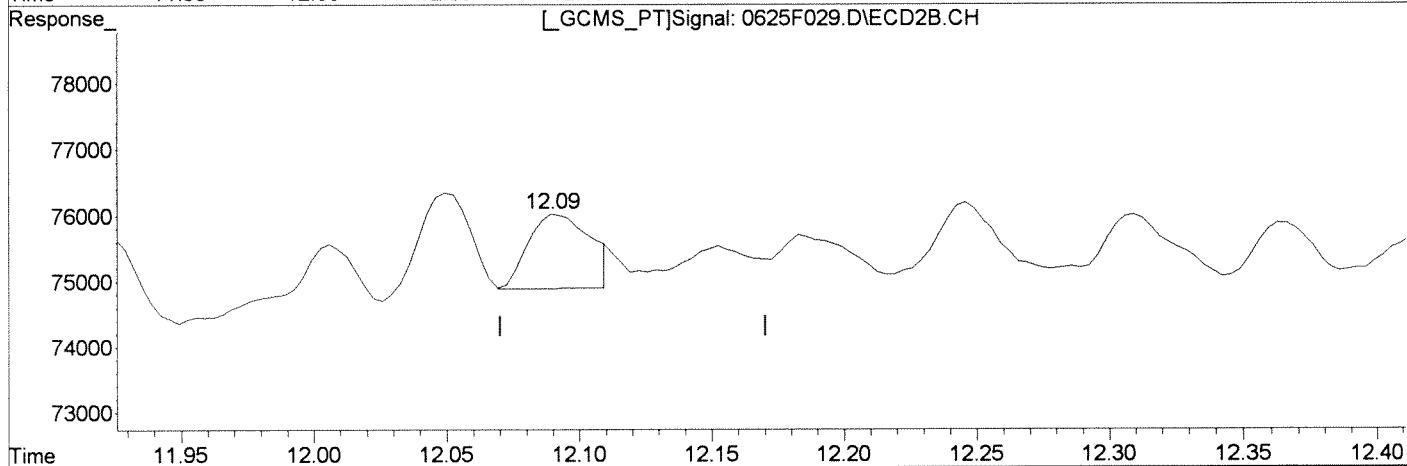
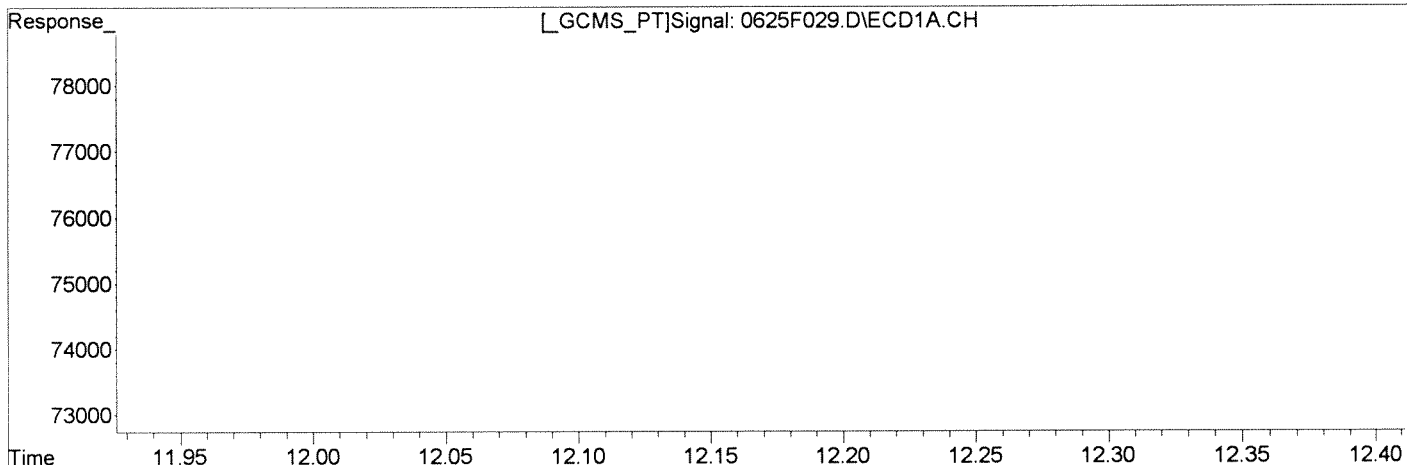
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 13:59:58 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH

(14) alpha-Chlordane	Manual Integration:
13.43min 0.292ug/L	After
response 7863	Baseline/Shoulder
	06/26/14
(14) alpha-Chlordane #2	
12.09min 0.169ug/L m	
response 1854	

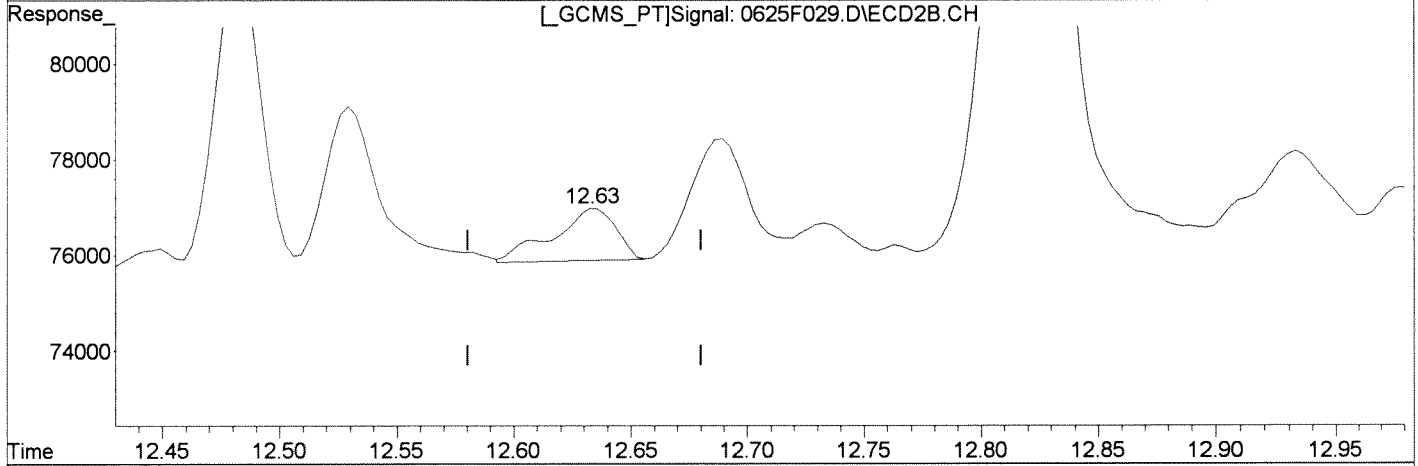
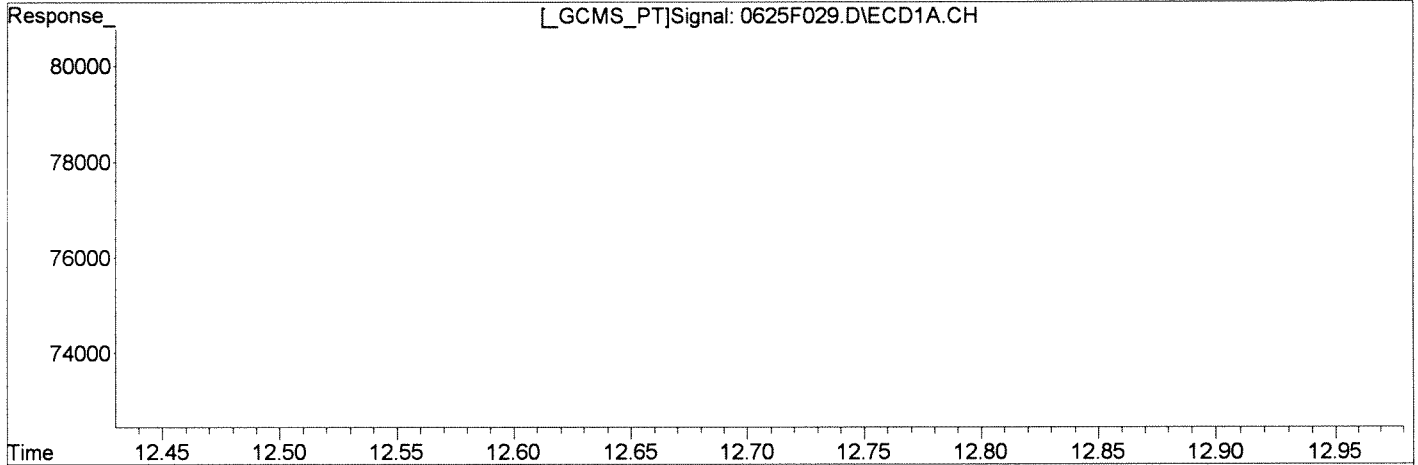
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 14:00:03 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH

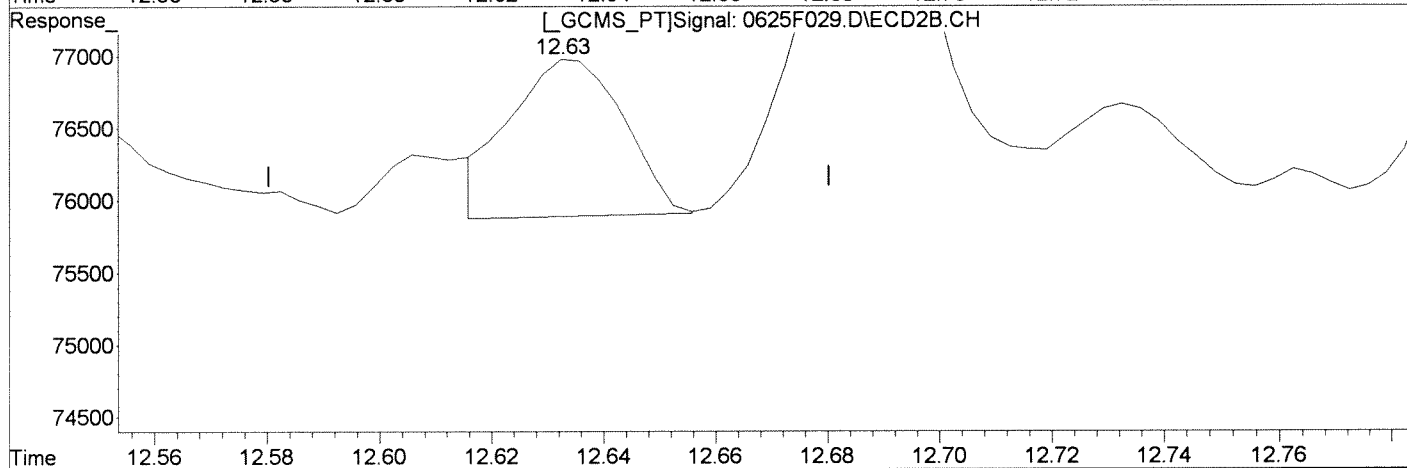
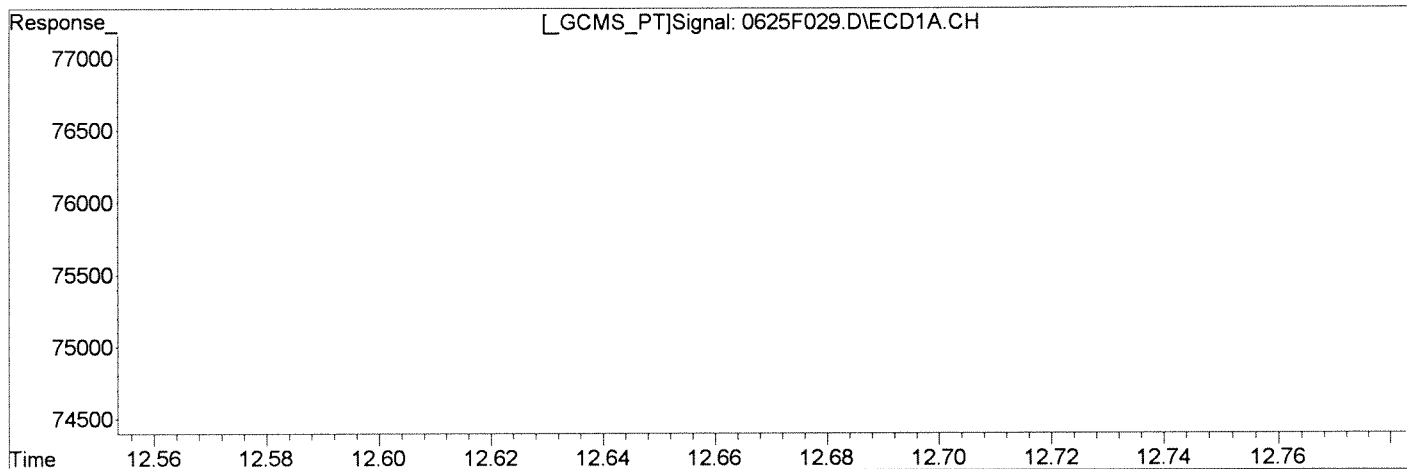
(15) Dieldrin	Manual Integration:
13.83min 0.112ug/L	Before
response 2911	06/26/14
(15) Dieldrin #2	
12.63min 0.186ug/L	
response 2028	

(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M Thu Jun 26 14:00:06 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH	
(15) Dieldrin	Manual Integration:
13.83min 0.112ug/L	After
response 2911	Baseline/Shoulder
	06/26/14
(15) Dieldrin #2	
12.63min 0.141ug/L m	
response 1538	

[Handwritten signature]

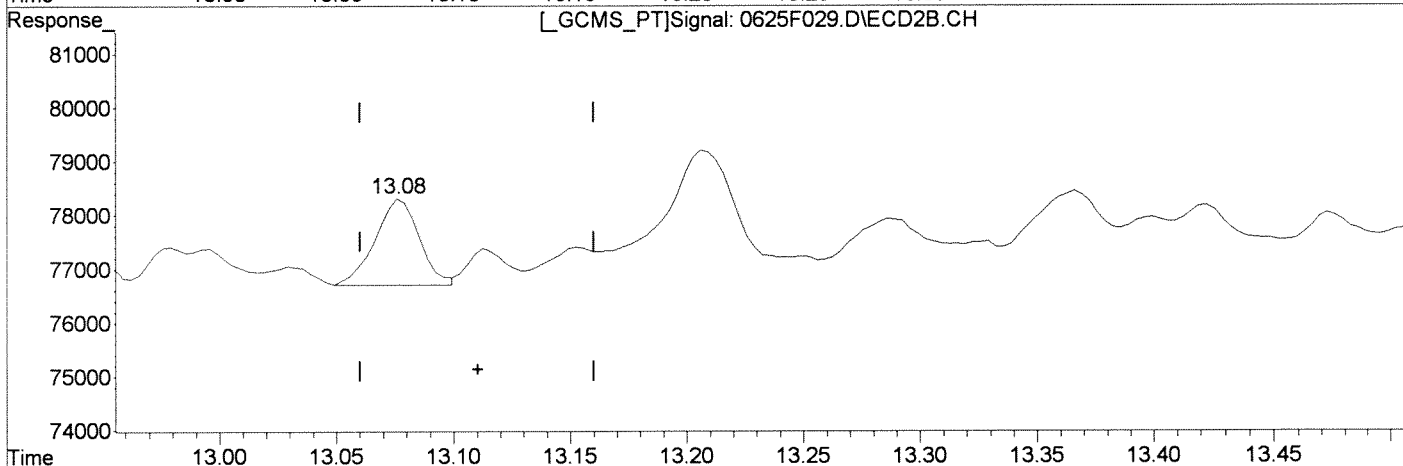
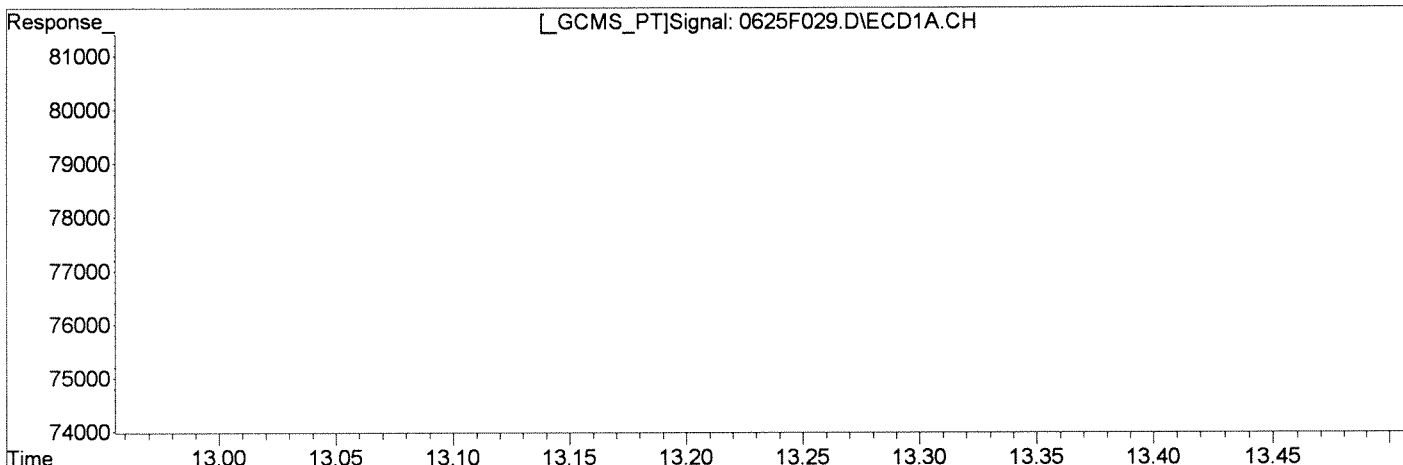
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 14:00:09 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH

(17) Endrin	Manual Integration:
14.19min 0.141ug/L	Before
response 3203	06/26/14
(17) Endrin #2	
13.08min 0.225ug/L	
response 2108	

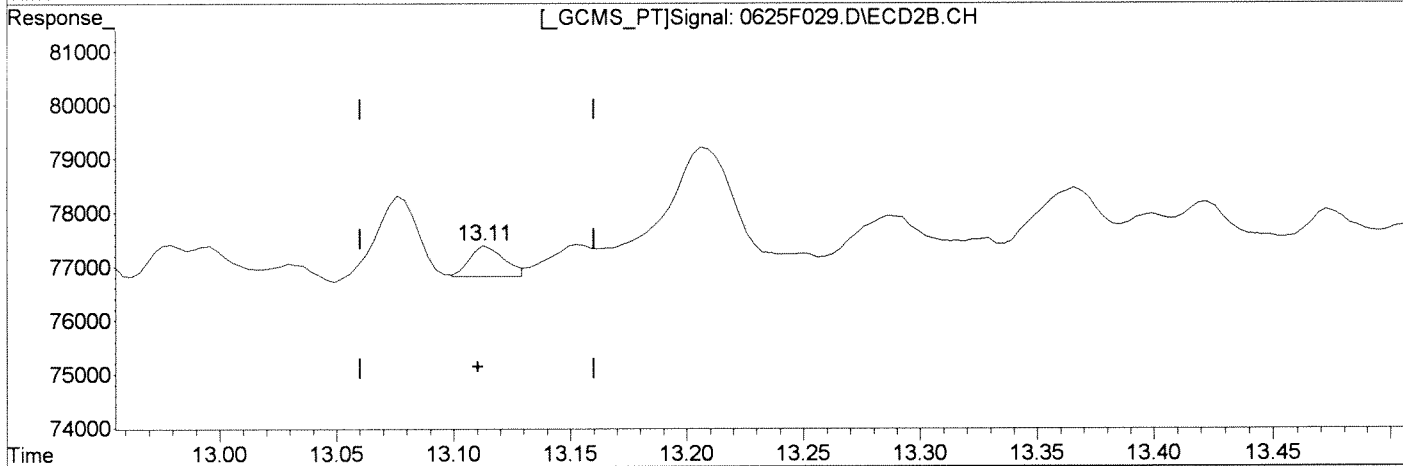
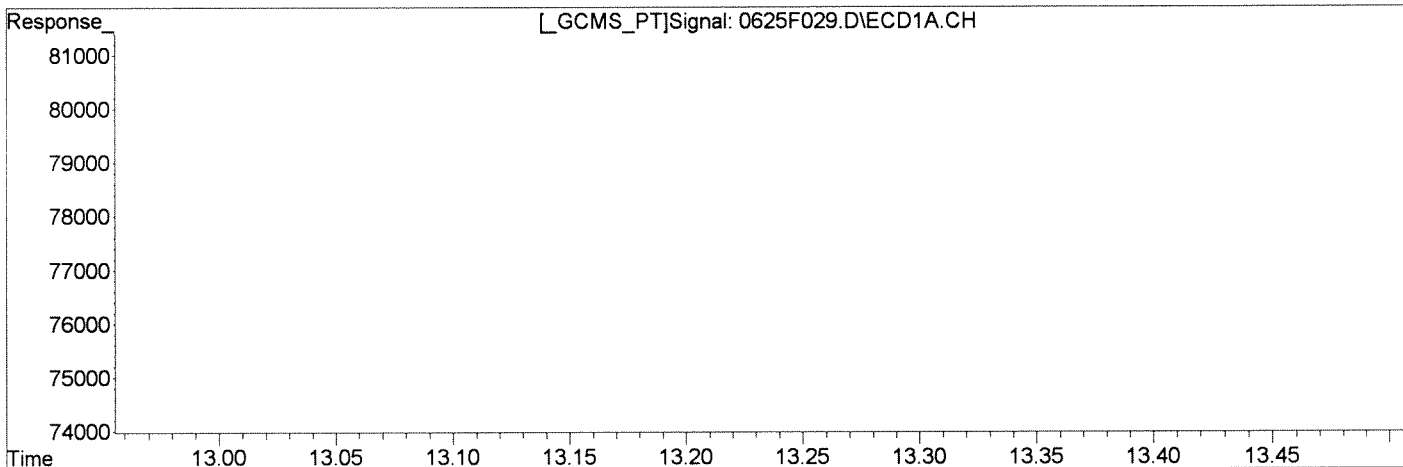
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 14:00:13 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH	
(17) Endrin	Manual Integration:
14.19min 0.141ug/L	After
response 3203	Wrong Peak
	06/26/14
(17) Endrin #2	
13.11min 0.063ug/L m	
response 592	

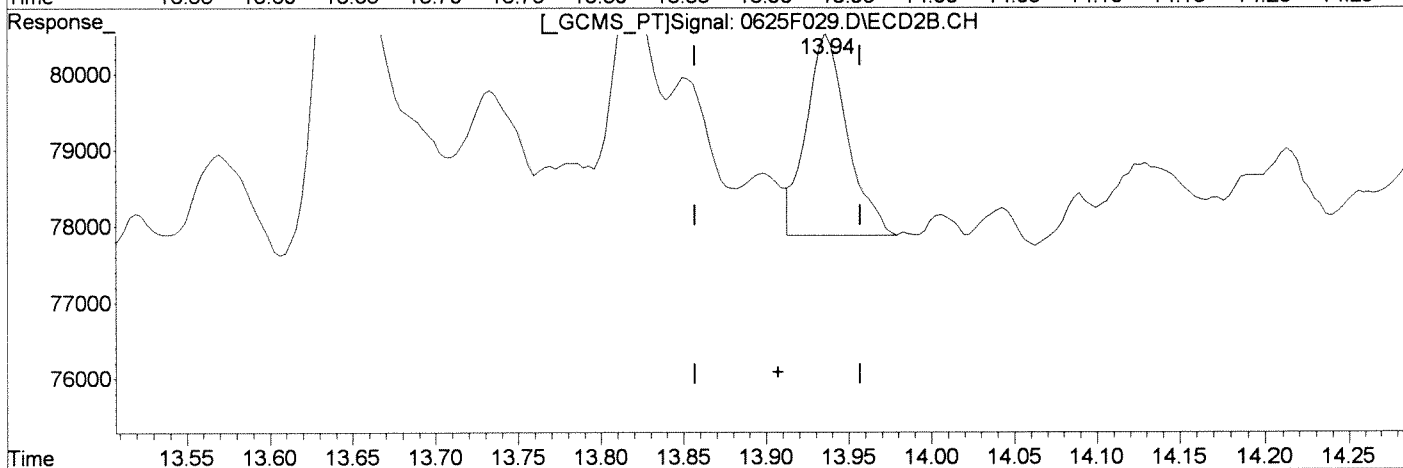
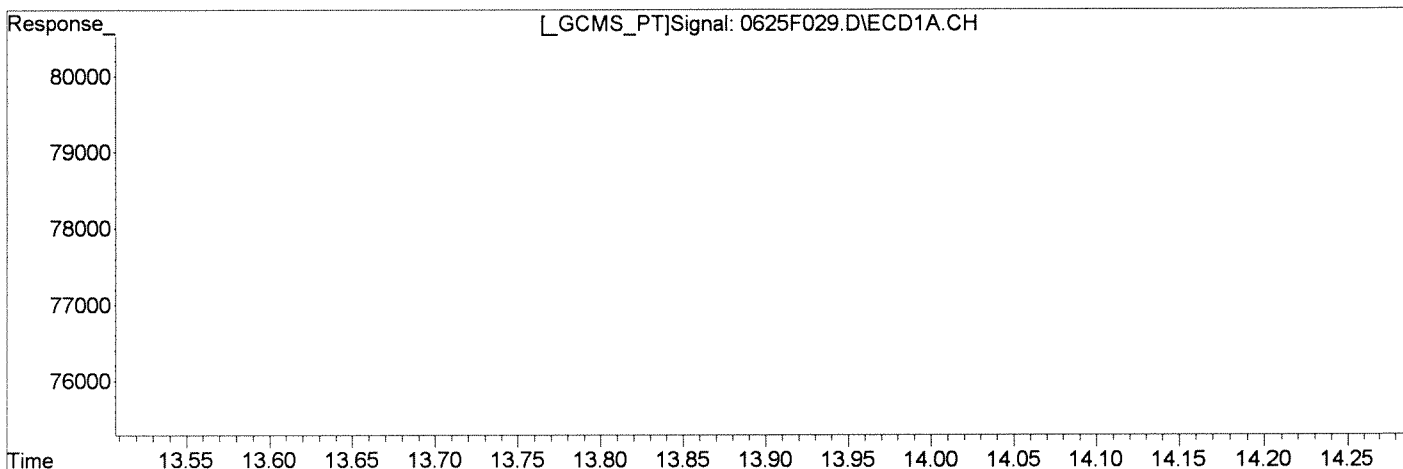
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 14:00:16 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH	
(20) Endrin Aldehyde	Manual Integration:
14.86min 0.701ug/L	Before
response 10349	06/26/14
(20) Endrin Aldehyde #2	
13.94min 0.655ug/L	
response 4538	

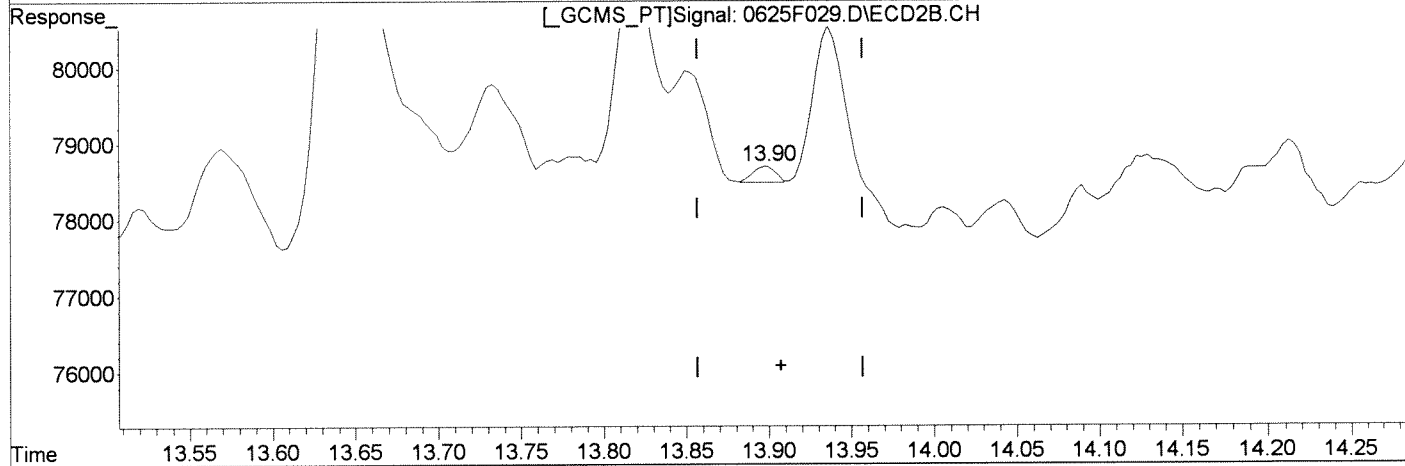
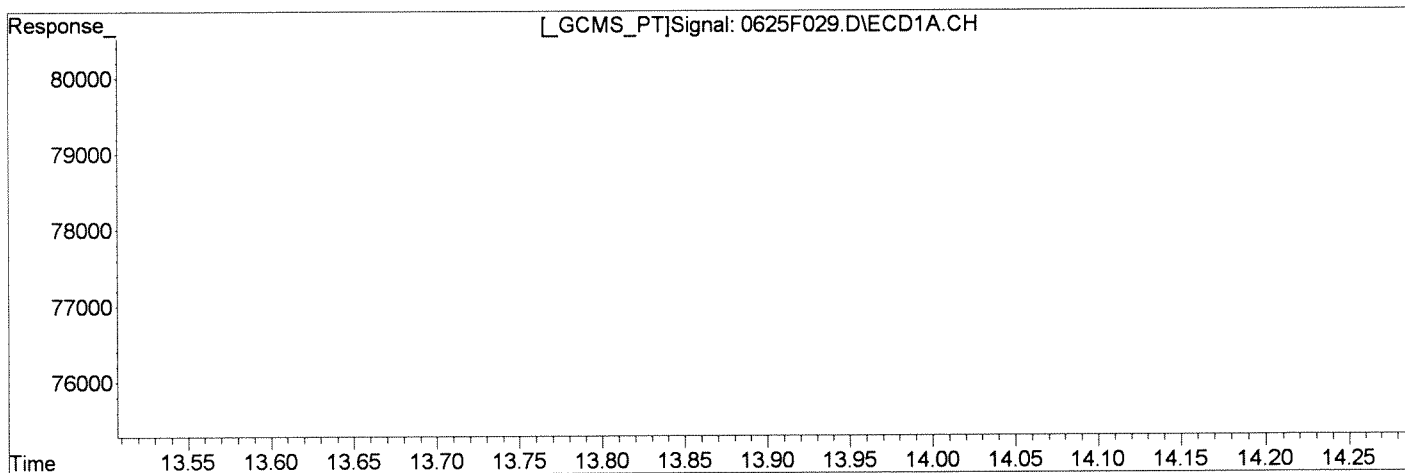
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 14:00:29 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH

(20) Endrin Aldehyde	Manual Integration:
14.86min 0.701ug/L	After
response 10349	Wrong Peak
	06/26/14
(20) Endrin Aldehyde #2	
13.90min 0.029ug/L m	
response 199	

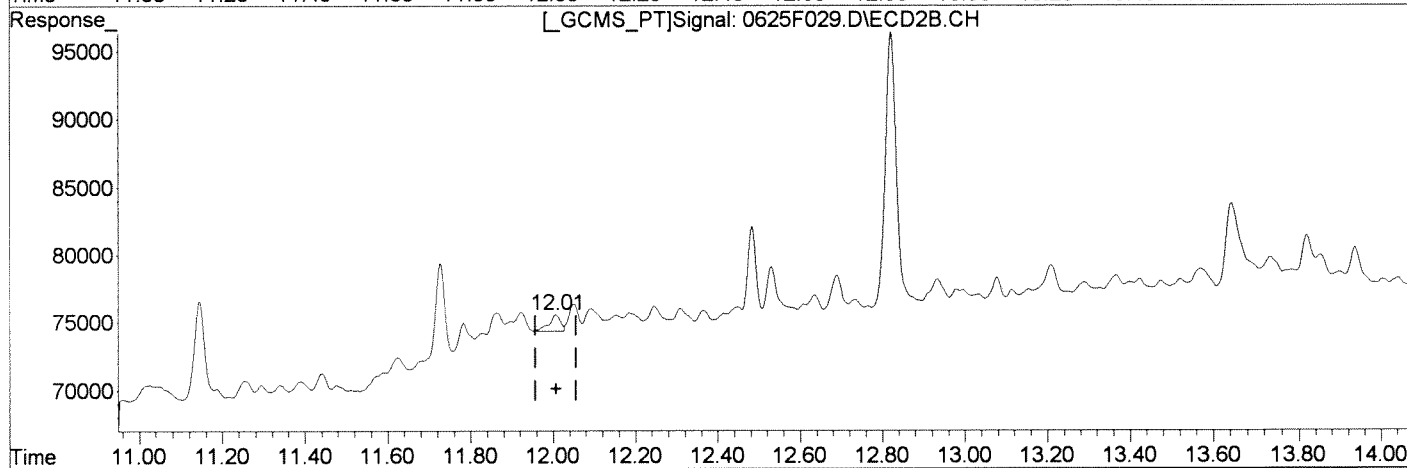
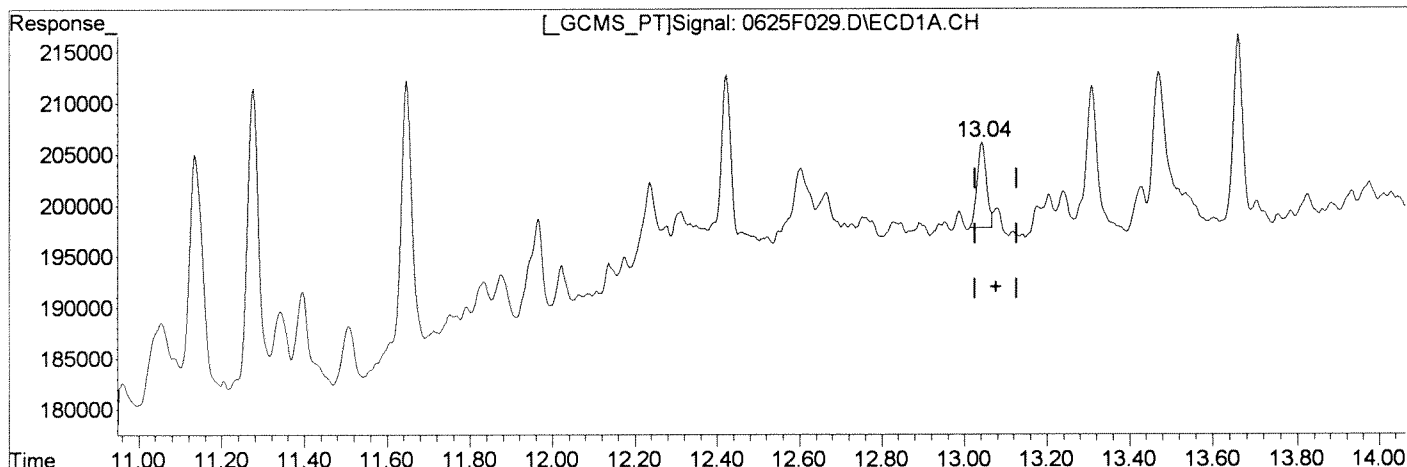
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 14:00:32 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Integration Status
13.04	0.759	13218	Manual Integration: Before
12.01	0.336	2358	Manual Integration: Before

06/26/14

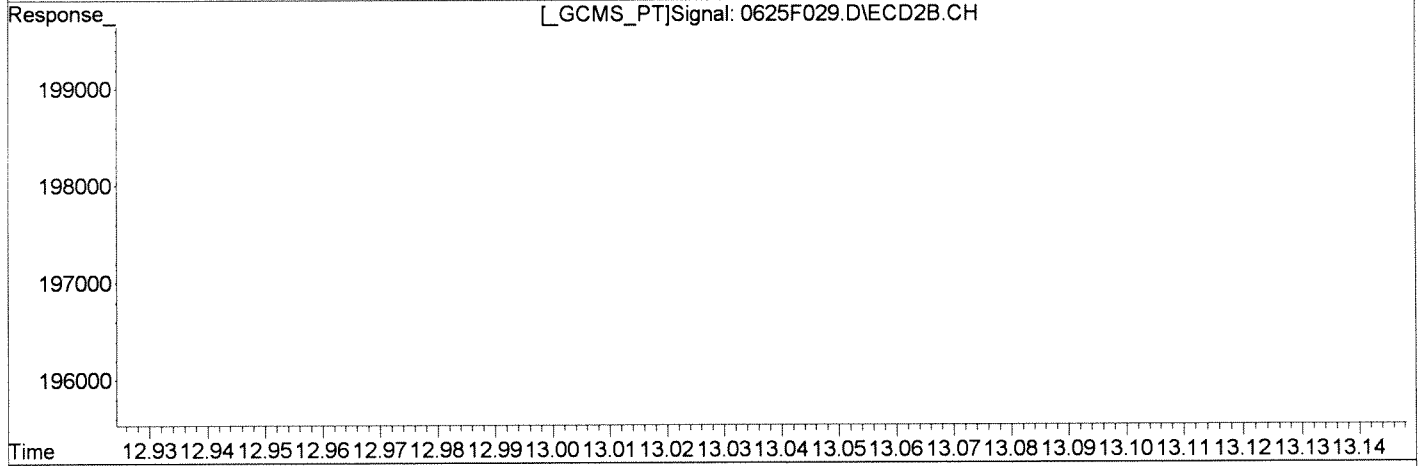
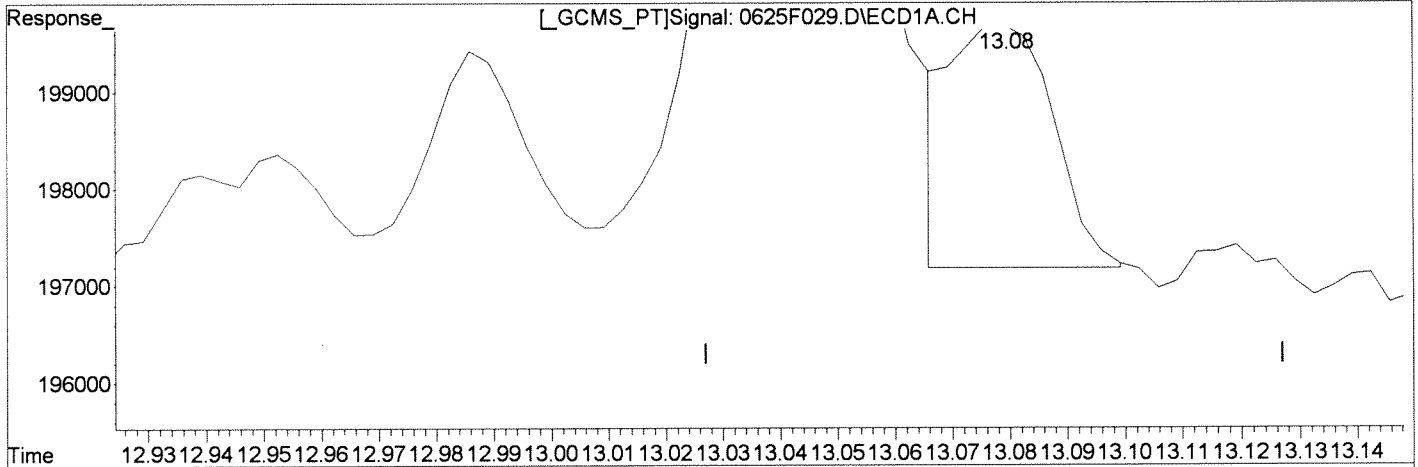
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 14:00:45 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH

(25) 2,4'-DDE	Manual Integration:
13.08min 0.180ug/L m	After
response 3127	Wrong Peak
	06/26/14
(25) 2,4'-DDE #2	
12.01min 0.336ug/L	
response 2358	

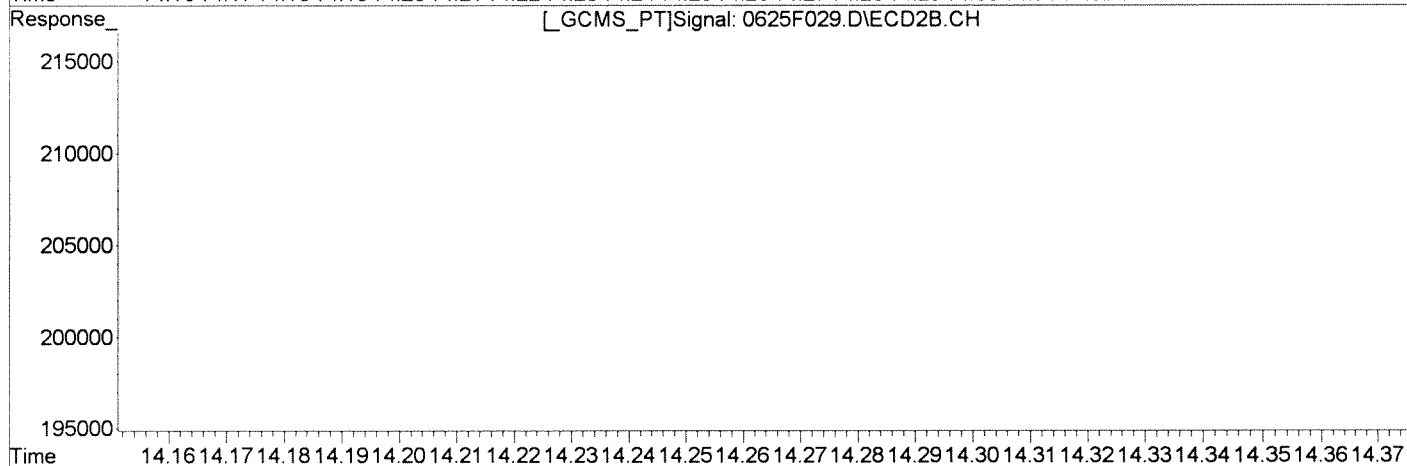
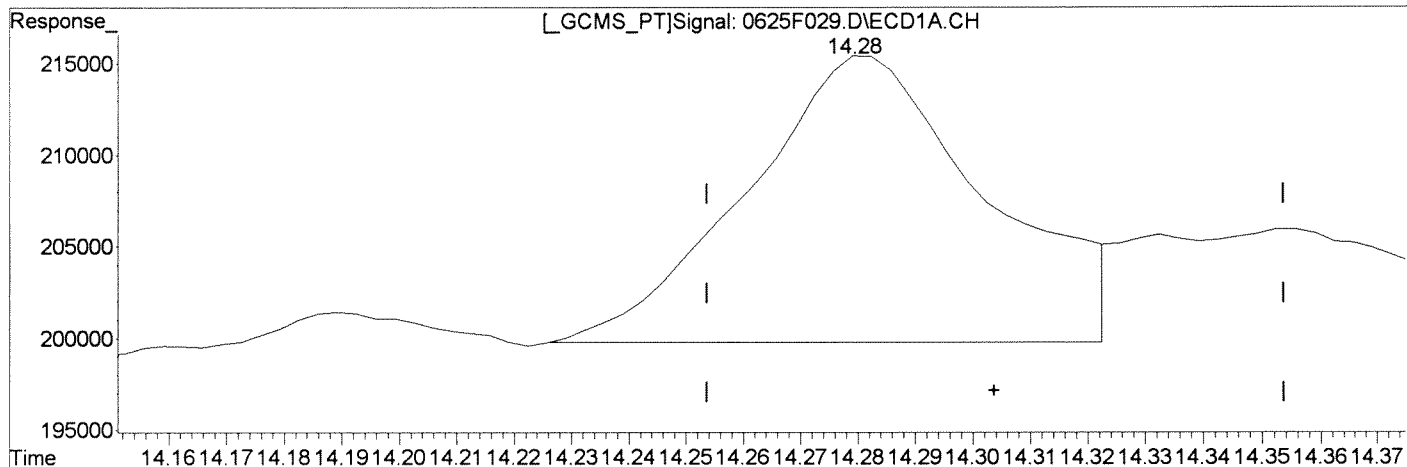
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 14:00:48 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(27) 2,4'-DDT		
14.28min	2.753ug/L	response 45454
(27) 2,4'-DDT #2		
13.21min	0.524ug/L	response 3567

Manual Integration:
Before
06/26/14

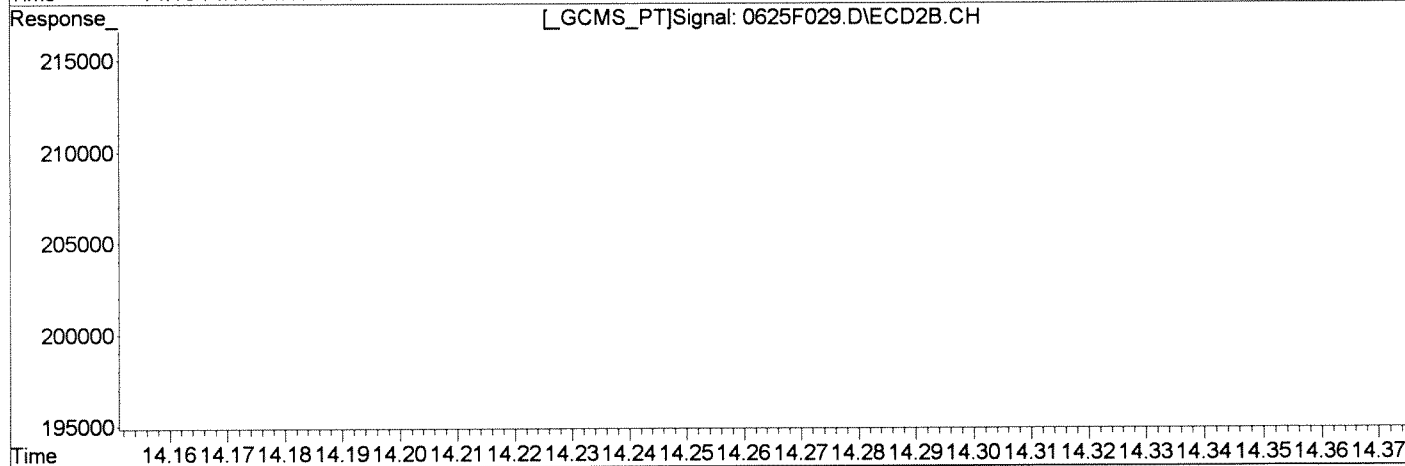
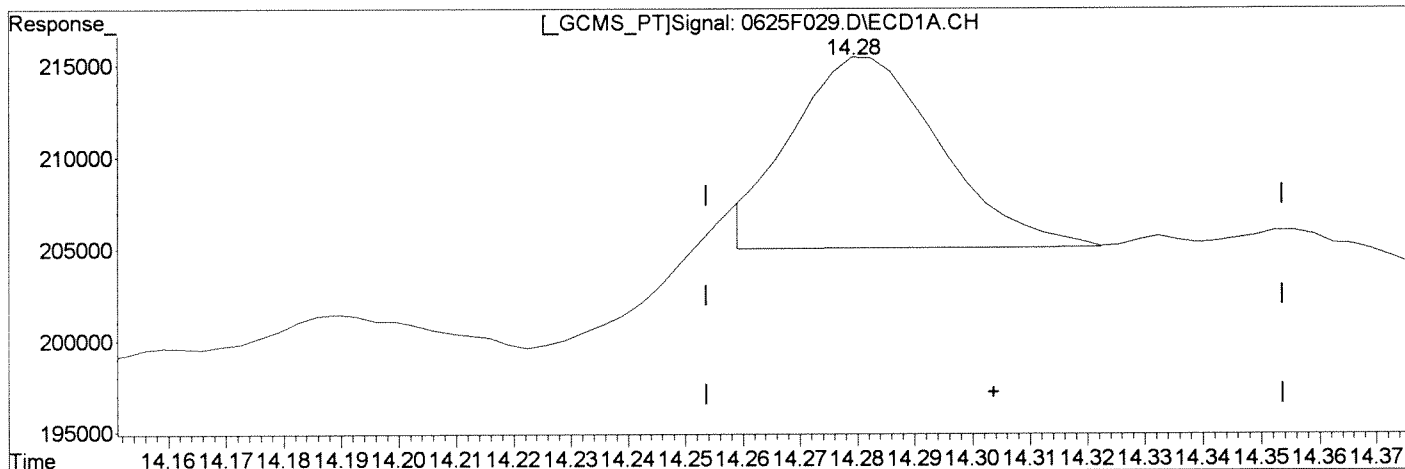
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 14:00:57 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH

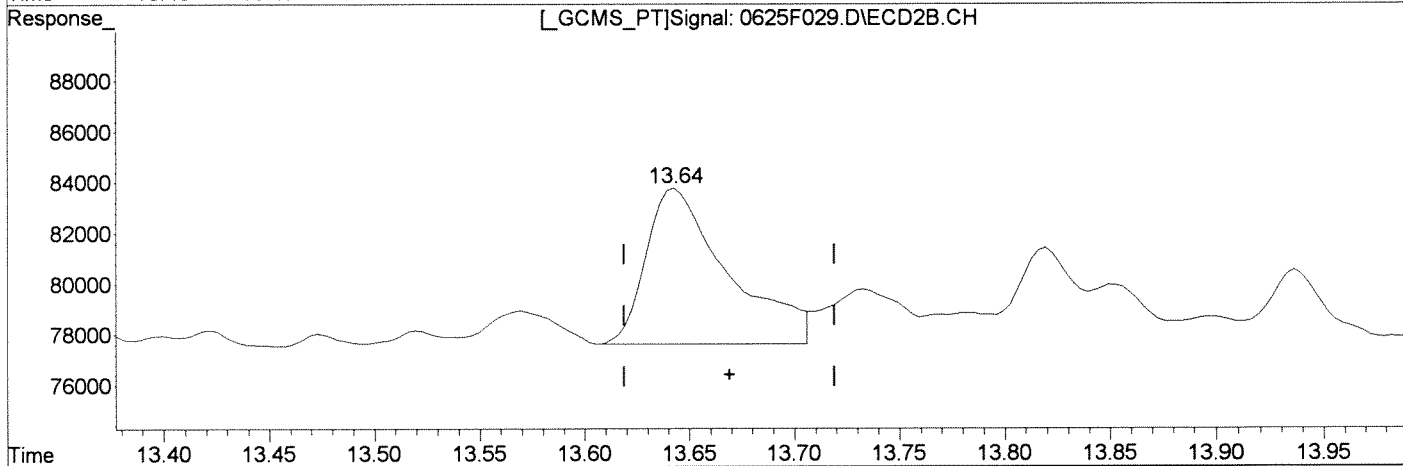
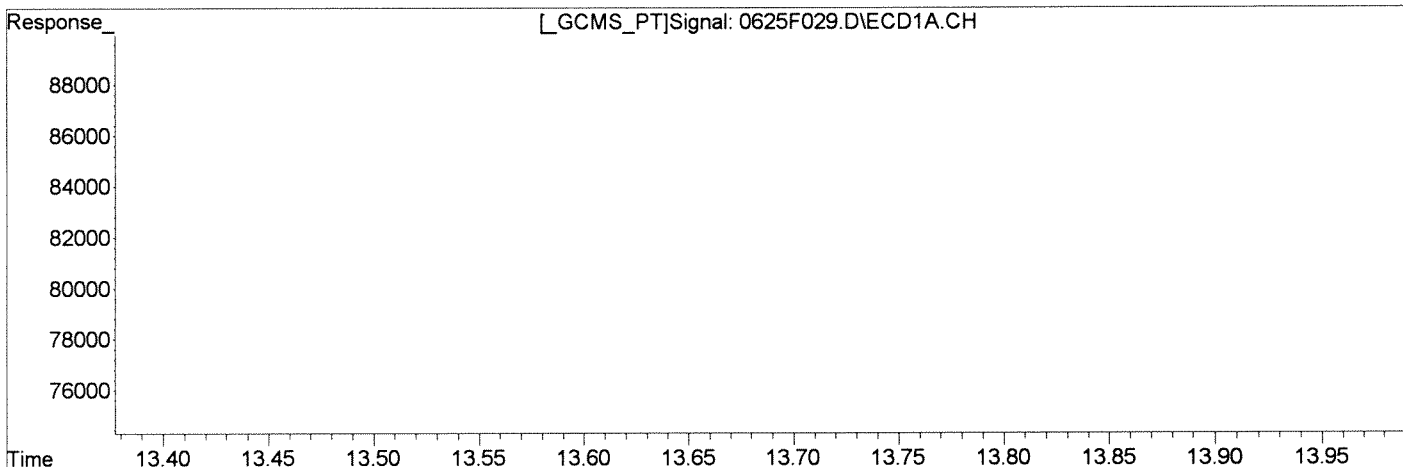
(27) 2,4'-DDT	Manual Integration:
14.28min 1.130ug/L m	After
response 18662	Baseline/Shoulder
	06/26/14
(27) 2,4'-DDT #2	
13.21min 0.524ug/L	
response 3567	

(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M Thu Jun 26 14:01:01 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH	
(31) Toxaphene {2}	Manual Integration:
14.66min 75.174ug/L	Before
response 15262	06/26/14
(31) Toxaphene {2} #2	
13.64min 274.880ug/L	
response 16757	

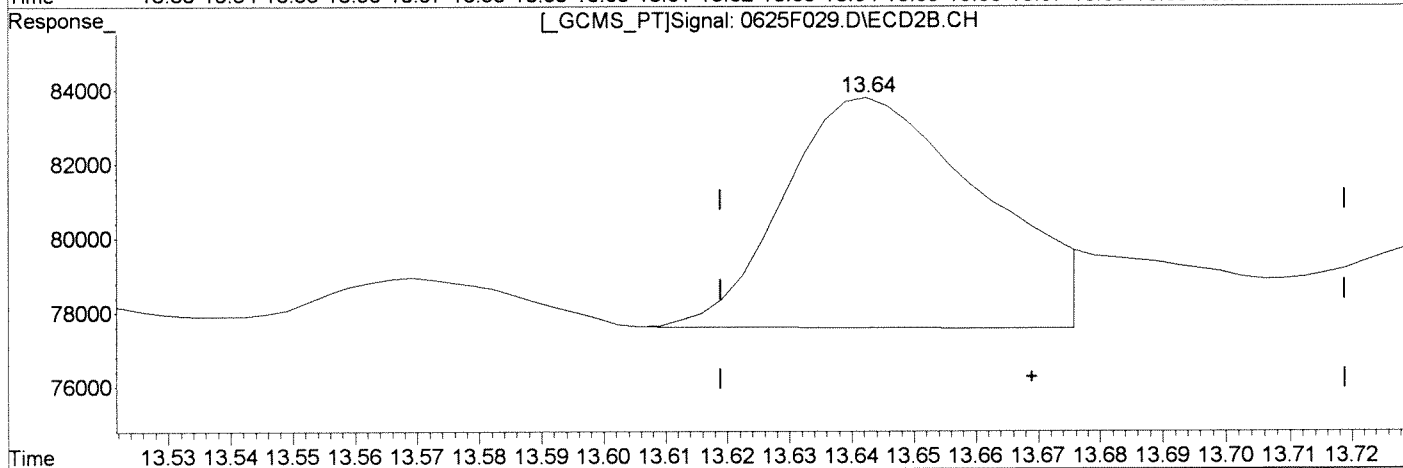
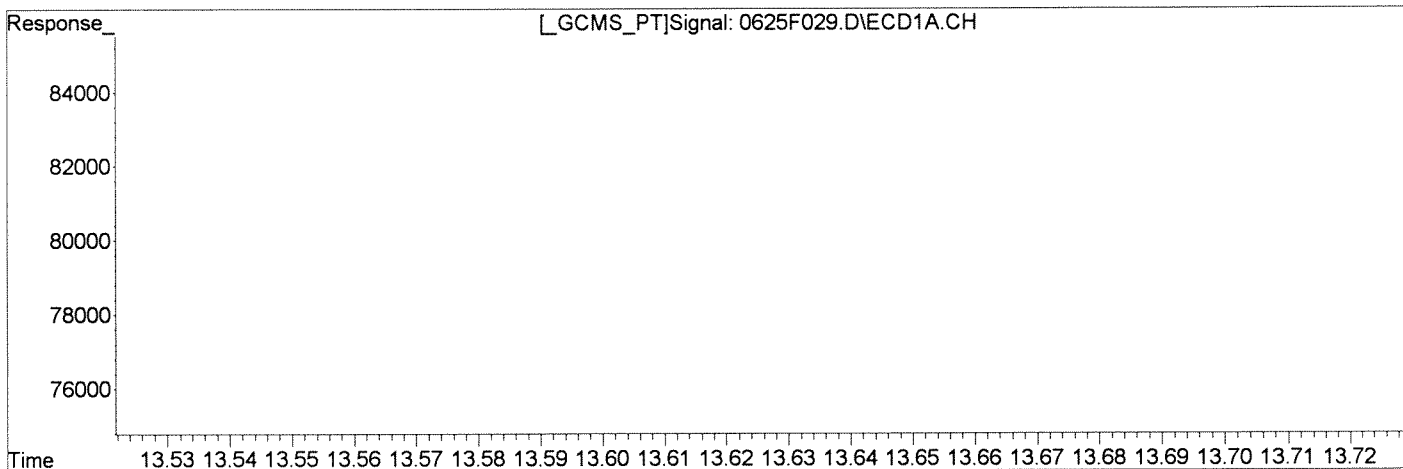
(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 14:01:23 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F029.D\ECD1A.CH Vial: 22
Signal #2 : J:\GC23\DATA\062514\0625F029.D\ECD2B.CH
Acq On : 26 Jun 2014 3:51 am Operator: SMURRAY
Sample : K1405818-002 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F029.D\ECD1A.CH

(31) Toxaphene {2}	Manual Integration:
14.66min 75.174ug/L	After
response 15262	Baseline/Shoulder
	06/26/14
(31) Toxaphene {2} #2	
13.64min 228.949ug/L m	
response 13957	

(+) = Expected Retention Time
0625F029.D GC23-031714-8081.M

Thu Jun 26 14:01:27 2014

Exception Report

Data File: J:\GC23\DATA\062514\0625F036.D
Lab ID: K1405818-003
RunType: SMPL
Matrix: WATER

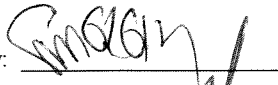
Date Acquired: 06/26/2014 07:18
Date Quantitated: 06/26/2014 14:08
Batch ID: KWG1406791
Analysis Method: 8081B
ListJoinID: LJ13160

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		x
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	NR 100
Lab Control Spike	Toxaphene {2}	198	36	137	
	Toxaphene {3}	0	36	137	SA
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.05	NA	NA	
	1-Bromo-2-nitrobenzene {2}	6.05	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.05	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.05	NA	NA	

Primary Review: 

Secondary Review: _____

Exception Report

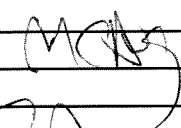

Data File: J:\GC23\DATA\062514\0625F036.D\0625F036C.D
Lab ID: K1405818-003
RunType: SMPL
Matrix: WATER

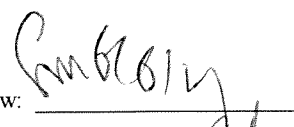
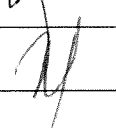
Date Acquired: 06/26/2014 07:18
Date Quantitated: 06/26/2014 14:08
Batch ID: KWG1406791
Analysis Method: 8081B
ListJoinID: LJ13160

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		x
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Lab Control Spike	Toxaphene {2}	198	36	137	
	Toxaphene {3}	0	36	137	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.46	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.46	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.46	NA	NA	
	1-Bromo-2-nitrobenzene {4}	5.46	NA	NA	

Primary Review: 
 Secondary Review: 

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F036.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F036.D\0625F036c.d	Vial:	29
Acqu Date:	06/26/2014 07:18	Quant Date:	06/26/2014 14:08
Run Type:	SMPL	Dilution:	1.0
Lab ID:	K1405818-003	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:	V	Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:	06/12/2014	Receive Date:	06/12/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	K1405818
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1350995	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:	Organochlorine Pesticides	Report List ID:	LJ13160
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Method ID:	MJ1013
		Quant based on Report List	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.05 ^{-0.11c}	5.46 ^{-0.09c}	2134016	834898	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.05 ^{+0.13c}	5.46 ^{+0.07c}	2134016	834898	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.05 ^{+0.05c}	5.46 ^{+0.02c}	2134016	834898	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.05 ^{+0.13c}	5.46 ^{+0.07c}	2134016	834898	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.80 ^{-0.02}	7.25 ^{-0.02}	1481790	611845	58.04	55.53	58 OK
				%Recovery =		58 OK	56 OK	Limits = 20-106
1	Decachlorobiphenyl	18.50 ^{-0.02}	17.05 ^{-0.03}	1417785	568638	62.65	60.89	63 OK
				%Recovery =		63 OK	61 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC	9.63 ^{-0.03}	8.49 ^{-0.02}	6582	1426m	0.2000	0.1070	0.00041J	0.00035U	0.00035U
1	beta-BHC		9.77 ^{-0.02}	0d	3761	0.0000	0.6160	0.00086U	0.0013J	0.00086U
1	gamma-BHC (Lindane)		9.22 ^{-0.04}	0d	3099	0.0000	0.2530	0.00046U	0.00052J	0.00046U
1	delta-BHC	11.39 ^{-0.05}	10.28 ^{-0.04}	21805	1616	0.7400	0.1340	0.0015J	0.00059U	0.00059U
1	Heptachlor	11.50 ^{-0.04}	9.92 ^{-0.02}	6930m	30126	0.2360	2.63	0.00049J	0.0054J	0.00049U
1	Aldrin		10.51 ^{-0.02}	0d	5709	0.0000	0.4520	0.00042U	0.00093J	0.00042U
1	Heptachlor Epoxide	12.77 ^{-0.03}	11.62 ^{+0.01}	3010	7889	0.1090	0.7020	0.00033U	0.0014J	0.00033U
1	gamma-Chlordane	13.30 ^{-0.02}		34764	0d	1.24	0.0000	0.0026J	0.00033U	0.00033U
1	Endosulfan I	13.42 ^{-0.02}		7961	0	0.3190	0.0000	0.00066J	0.00046U	0.00046U

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL, also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F036.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F036.D\0625F036c.d	Vial:	29
Acqu Date:	06/26/2014 07:18	Quant Date:	06/26/2014 14:44
Run Type:	SMPL	Dilution:	1.0
Lab ID:	K1405818-003	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

					Final Conc. Units: ug/L					
IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-Chlordane	13.36 ^{-0.03}		3061	0d	0.1110	0.0000	0.0042U	0.0042U	0.0042U
1	Dieldrin	13.87 ^{+0.01}	12.63 ^{-0.02}	3559	2857	0.1330	0.2490	0.00037U	0.00051J	0.00037U
1	4,4'-DDE	13.65 ^{-0.02}		10366	0d	0.3860	0.0000	0.00080J	0.00038U	0.00038U
1	Endrin		13.07 ^{-0.06}	0d	3677	0.0000	0.3730	0.00071U	0.00077J	0.00071U
1	Endosulfan II	14.66 ^{-0.02}	13.53 ^{-0.03}	16652	1683	0.7220	0.1780	0.0015J	0.00042U	0.00042U
1	4,4'-DDD	14.53 ^{+0.02}	13.36 ^{-0.02}	3236	2043	0.1480	0.2300	0.0016U	0.0016U	0.0016U
1	Endrin Aldehyde	14.85 ^{-0.01}	13.89 ^{-0.03}	9296	819m	0.6140	0.1130	0.0013J	0.00048U	0.00048U
1	4,4'-DDT		13.81 ^{+0.01}	0d	6501	0.0000	0.7730	0.00060U	0.0016J	0.00060U
1	Endrin Ketone			0d	0d	0.0000	0.0000	0.00069U	0.00069U	0.00069U
1	Methoxychlor			0	0	0.0000	0.0000	0.00096U	0.00096U	0.00096U
1	2,4'-DDE			0d	0d	0.0000	0.0000	0.00052U	0.00052U	0.00052U
1	2,4'-DDD		12.81 ^{+0.01}	0d	64363	0.0000	9.57	0.00059U	0.020	0.00059U
1	2,4'-DDT	14.27 ^{-0.05}		55723	0	3.30	0.0000	0.0068J	0.00061U	0.00061U
2	Toxaphene {1}			0	0d	0.0000	0.0000	0.053U	0.053U	
	Toxaphene			0	0	39.45	53.01	0.081J	0.11J	0.081J
2	Toxaphene {2}	14.66 ^{+0.01}		16652	0d	80.08	0.0000	0.17J	0.053U	
2	Toxaphene {3}	14.76 ^{-0.02}	13.93	4036	4441	8.29	51.42	0.053U	0.11J	
2	Toxaphene {4}	14.85 ^{+0.01}	14.31 ^{+0.03}	9296	5729	29.99	54.59	0.062J	0.11J	
2	Toxaphene {5}			0	0	0.0000	0.0000	0.053U	0.053U	
2	Toxaphene {6}			0	0	0.0000	0.0000	0.053U	0.053U	
3	Chlordane {1}	11.13 ^{+0.04}	9.61 ^{+0.04}	46488	5844	44.77	17.04	0.092J	0.035J	
	Chlordane			0	0	14.82	9.50	0.031J	0.023U	0.023U
3	Chlordane {2}	11.48 ^{-0.04}		7746	0d	5.34	0.0000	0.023U	0.023U	
3	Chlordane {3}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {4}	13.30	12.04 ^{+0.02}	34764	1434	10.42	1.96	0.023U	0.023U	
3	Chlordane {5}	13.36 ^{-0.02}		3061	0d	1.24	0.0000	0.023U	0.023U	
3	Chlordane {6}	13.46		22128	0d	12.36	0.0000	0.025J	0.023U	
4	Oxychlordane		11.38 ^{-0.01}	0d	1825	0.0000	0.1910	0.0011U	0.0011U	0.0011U
4	cis-Nonachlor			0d	0	0.0000	0.0000	0.00062U	0.00062U	0.00062U
4	trans-Nonachlor	13.46 ^{-0.01}	12.04 ^{+0.02}	22128	1434	0.8120	0.1230	0.0017J	0.00095U	0.00095U
4	Mirex			0	0	0.0000	0.0000	0.00084U	0.00084U	0.00084U

The +/- after Retention Time symbolize the direction of the RT shift

Prep Amount: 970 mL Dilution: 1.0
 Prep Final Vol: 2 mL Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F036.D\ECD1A.CH Vial: 29
 Signal #2 : J:\GC23\DATA\062514\0625F036.D\ECD2B.CH
 Acq On : 26 Jun 2014 7:18 am Operator: SMURRAY
 Sample : K1405818-003 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:34 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.05	5.46	2134016	834898	100.000	100.000
29) 1-Bromo-2-nitrob	6.05	5.46	2134016	834898	100.000	100.000
36) 1-Bromo-2-nitrob	6.05	5.46	2134016	834898	100.000	100.000
43) 1-Bromo-2-nitrob	6.05	5.46	2134016	834898	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.80	7.25	1481790	611845	58.038	55.534
28) s Decachlorobiphen	18.50	17.05	1417785	568638	62.651	60.889
Target Compounds						
3) alpha-BHC	9.63f	8.49	6582	1426	0.200	0.107m#
4) Hexachlorobenzen	0.00	8.26	0	5725	N.D. d	0.449
5) beta-BHC	0.00	9.77	0	3761	N.D. d	0.616
6) gamma-BHC (Linda	0.00	9.22	0	3099	N.D. d	0.253
7) delta-BHC	11.39f	10.28	21805	1616	0.740	0.134 #
8) Heptachlor	11.50f	9.92	6930	30126	0.236m	2.634 #
9) Aldrin	0.00	10.51	0	5709	N.D. d	0.452
10) Isodrin	12.60	11.29	11260	1572	0.449	0.150 #
11) Heptachlor Epoxi	12.77	11.62	3010	7889	0.109	0.702 #
12) gamma-Chlordane	13.30	0.00	34764	0	1.242	N.D. d#
13) Endosulfan I	13.42	0.00	7961	0	0.319	N.D. #
14) alpha-Chlordane	13.36	0.00	3061	0	0.111	N.D. d#
15) Dieldrin	13.87	12.63	3559	2857	0.133	0.249 #
16) 4,4'-DDE	13.65	0.00	10366	0	0.386	N.D. d#
17) Endrin	0.00	13.07f	0	3677	N.D. d	0.373
18) Endosulfan II	14.66	13.53	16652	1683	0.722	0.178 #
19) 4,4'-DDD	14.53f	13.36	3236	2043	0.148	0.230 #
20) Endrin Aldehyde	14.85	13.89	9296	819	0.614	0.113m#
21) Endosulfan Sulfa	0.00	14.21	0	3086	N.D. d	0.351
22) 4,4'-DDT	0.00	13.81	0	6501	N.D. d	0.773
26) 2,4'-DDD	0.00	12.81f	0	64363	N.D. d	9.573
27) 2,4'-DDT	14.27f	0.00	55723	0	3.295	N.D. #
31) Toxaphene {2}	14.66	0.00	16652	0	80.081	N.D. d#
32) Toxaphene {3}	14.76	13.93	4036	4441	8.288	51.419 #
33) Toxaphene {4}	14.85	14.31	9296	5729	29.986	54.594 #

Signal #1 : J:\GC23\DATA\062514\0625F036.D\ECD1A.CH Vial: 29
 Signal #2 : J:\GC23\DATA\062514\0625F036.D\ECD2B.CH
 Acq On : 26 Jun 2014 7:18 am Operator: SMURRAY
 Sample : K1405818-003 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:34 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

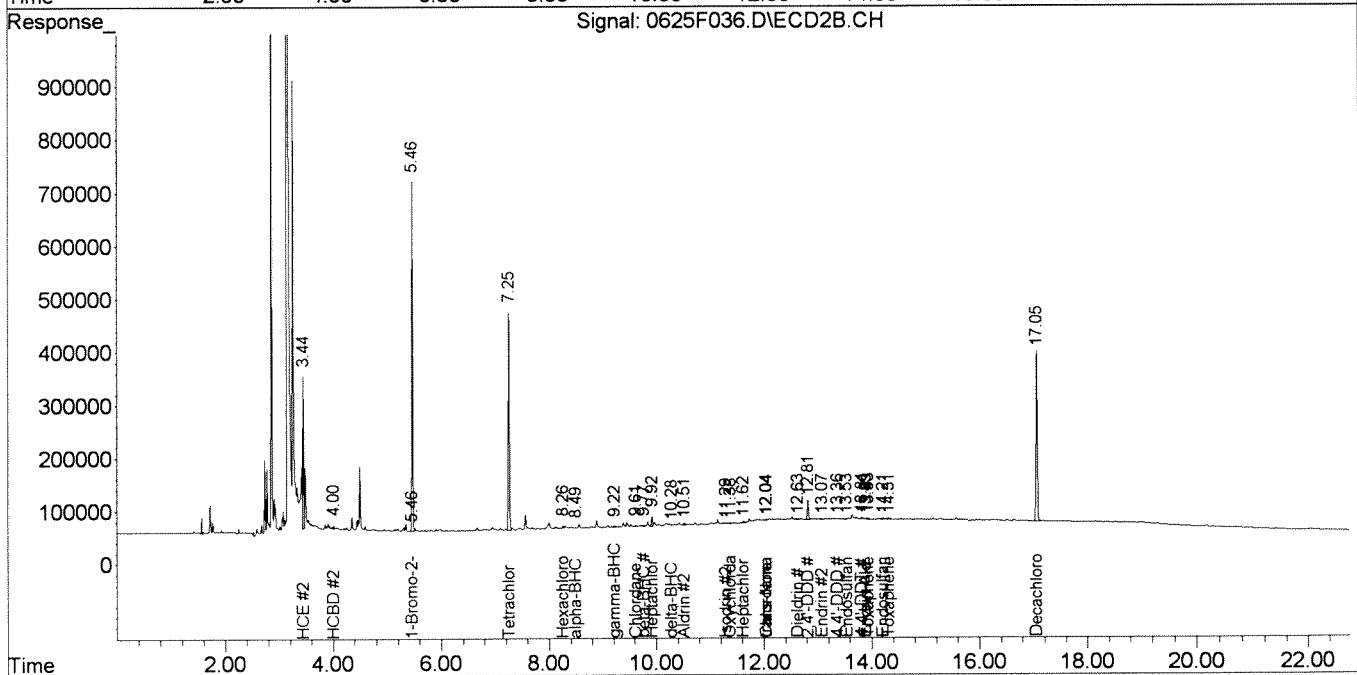
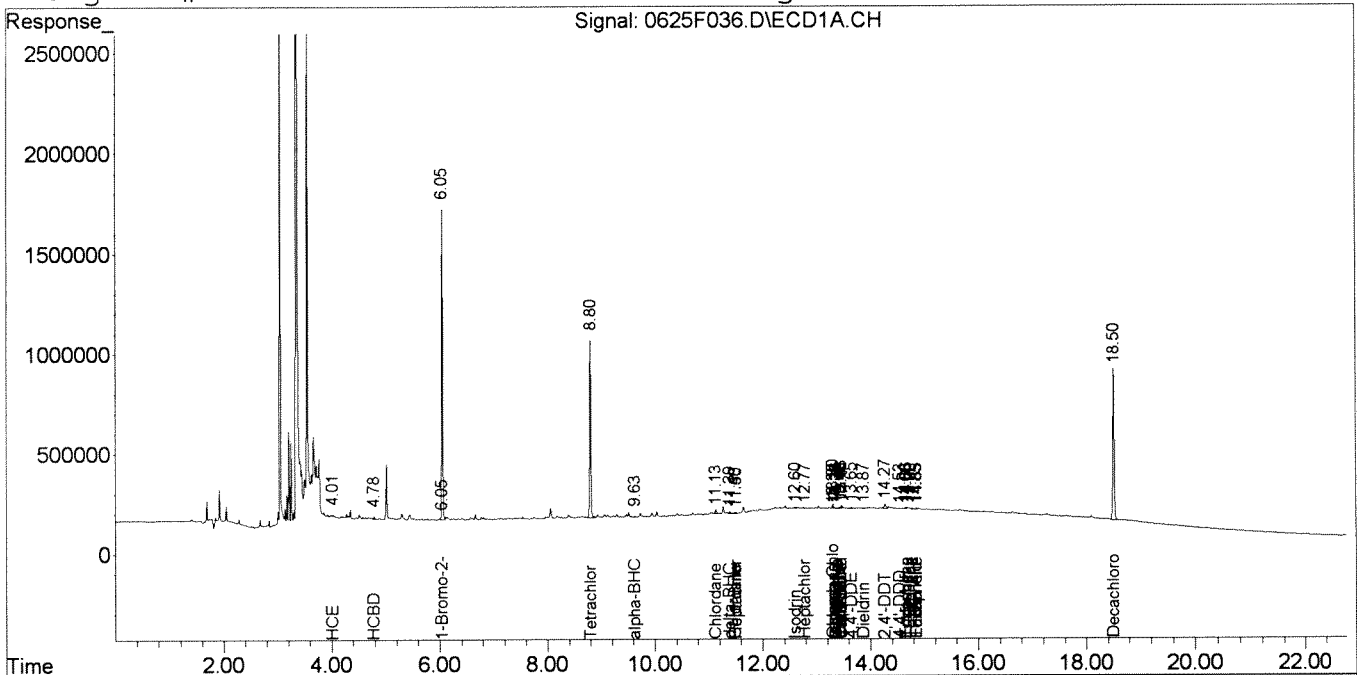
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
37)	Chlordane	11.13f	9.61f	46488	5844	44.769	17.039 #
38)	Chlordane {2}	11.48f	0.00	7746	0	5.338	N.D. d#
40)	Chlordane {4}	13.30	12.04	34764	1434	10.415	1.960 #
41)	Chlordane {5}	13.36	0.00	3061	0	1.241	N.D. d#
42)	Chlordane {6}	13.46	0.00	22128	0	12.360	N.D. d#
45)	Oxychlordane	0.00	11.38	0	1825	N.D. d	0.191
47)	trans-Nonachlor	13.46	12.04	22128	1434	0.812	0.123 #
49)	HCE	4.01f	3.44	5105	349014	0.101	18.034 #
50)	HCBD	4.78	4.00	19852	5246	0.515	0.338 #

Signal #1 : J:\GC23\DATA\062514\0625F036.D\ECD1A.CH Vial: 29
 Signal #2 : J:\GC23\DATA\062514\0625F036.D\ECD2B.CH
 Acq On : 26 Jun 2014 7:18 am Operator: SMURRAY
 Sample : K1405818-003 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:44 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

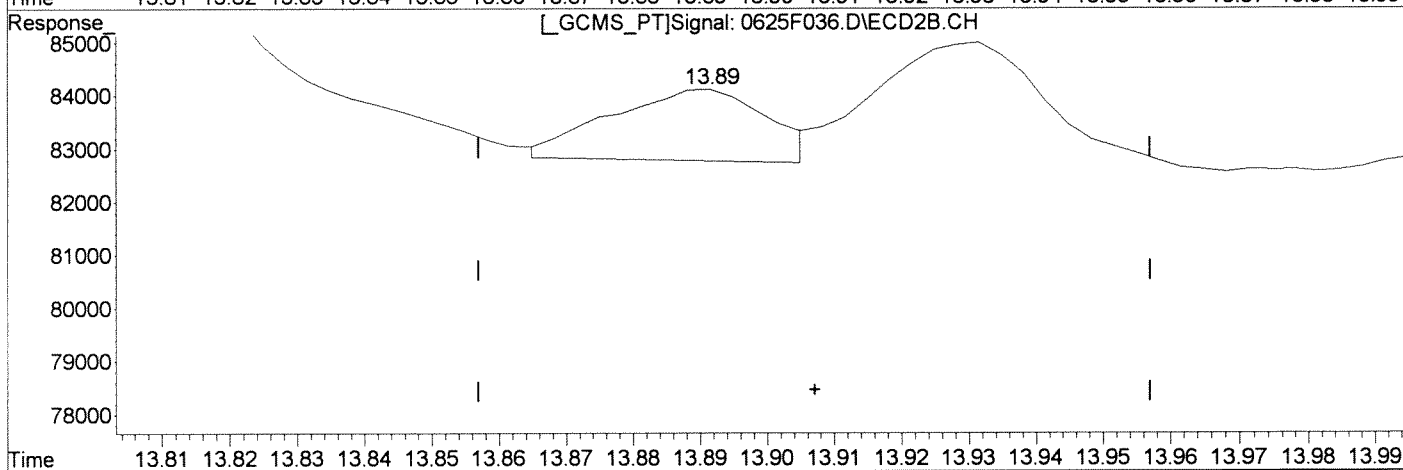
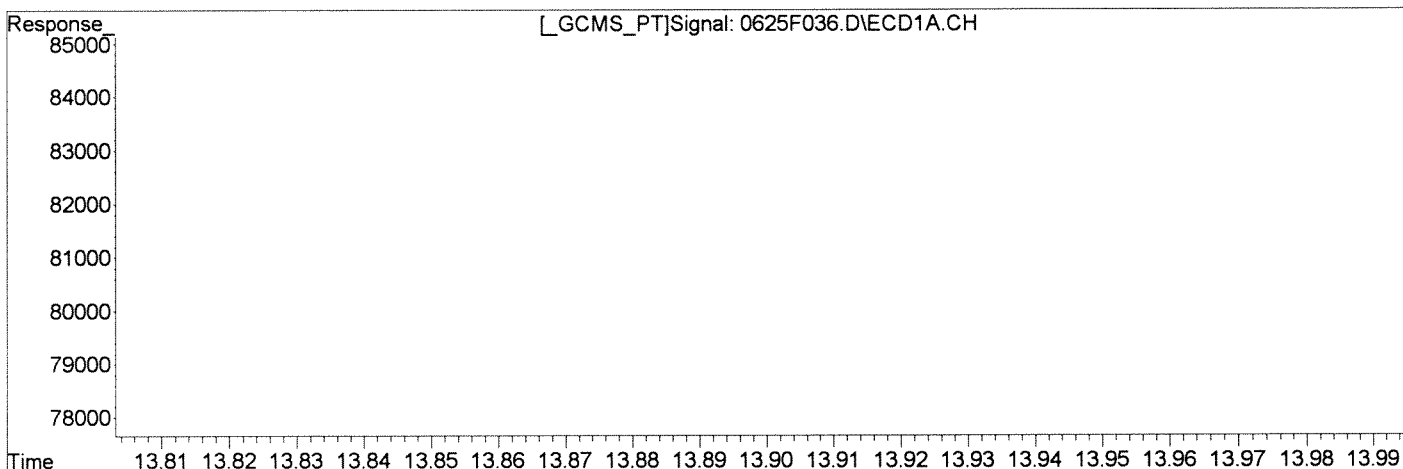
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm


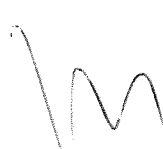


Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F036.D\ECD1A.CH Vial: 29
Signal #2 : J:\GC23\DATA\062514\0625F036.D\ECD2B.CH
Acq On : 26 Jun 2014 7:18 am Operator: SMURRAY
Sample : K1405818-003 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 14:08 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F036.D\ECD1A.CH	
(20) Endrin Aldehyde	Manual Integration:
14.85min 0.614ug/L	Before
response 9296	06/26/14 
(20) Endrin Aldehyde #2	
13.89min 0.298ug/L	
response 2171	

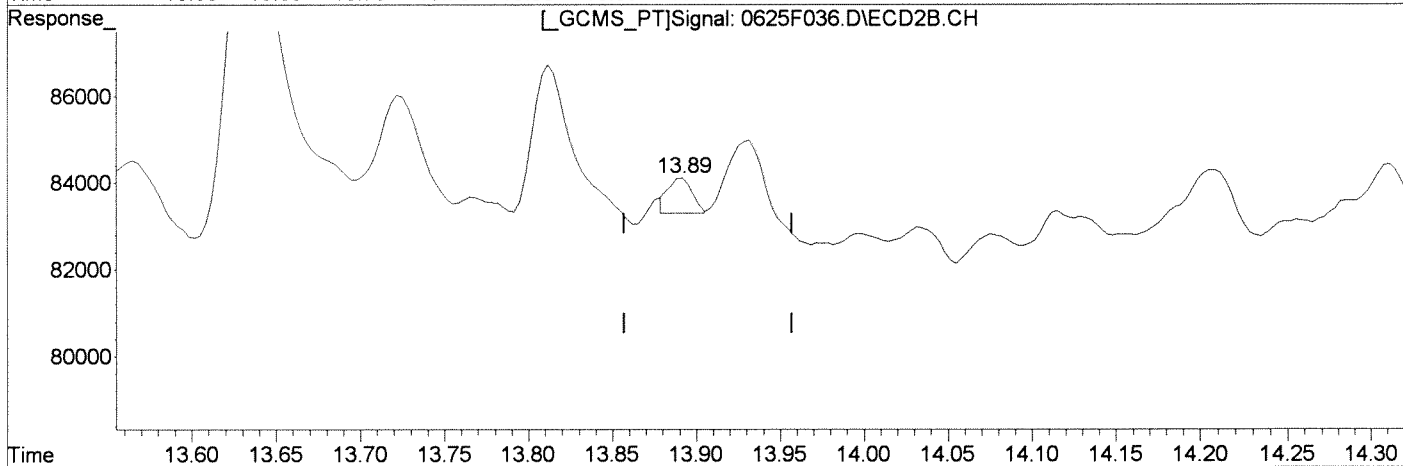
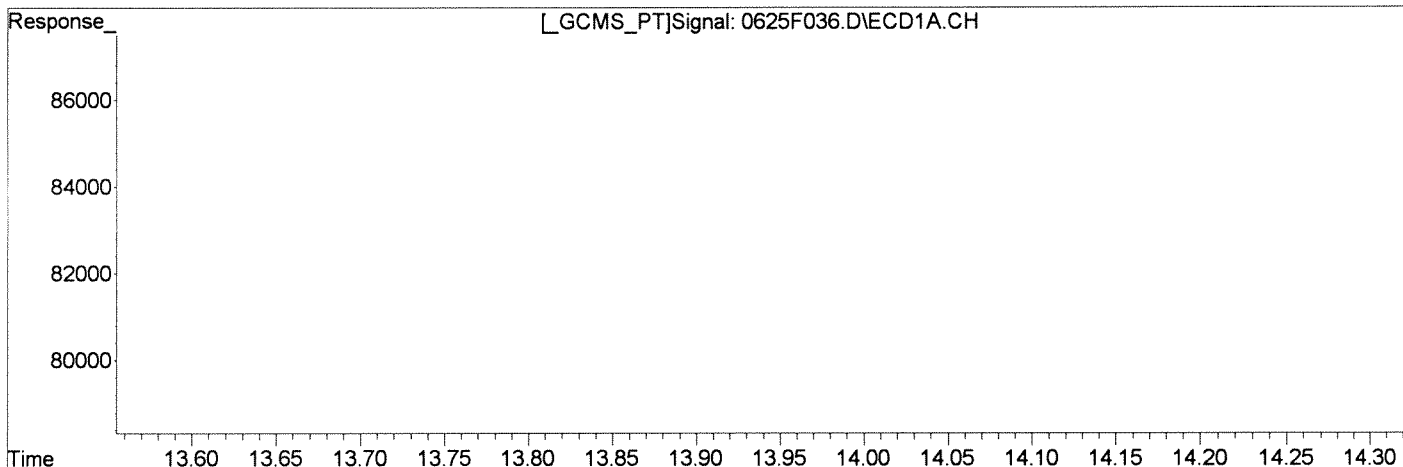
(+) = Expected Retention Time
0625F036.D GC23-031714-8081.M

Thu Jun 26 14:44:55 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F036.D\ECD1A.CH Vial: 29
Signal #2 : J:\GC23\DATA\062514\0625F036.D\ECD2B.CH
Acq On : 26 Jun 2014 7:18 am Operator: SMURRAY
Sample : K1405818-003 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 14:08 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F036.D\ECD1A.CH	
(20) Endrin Aldehyde	Manual Integration:
14.85min 0.614ug/L	After
response 9296	Baseline/Shoulder
	06/26/14
(20) Endrin Aldehyde #2	
13.89min 0.113ug/L m	
response 819	

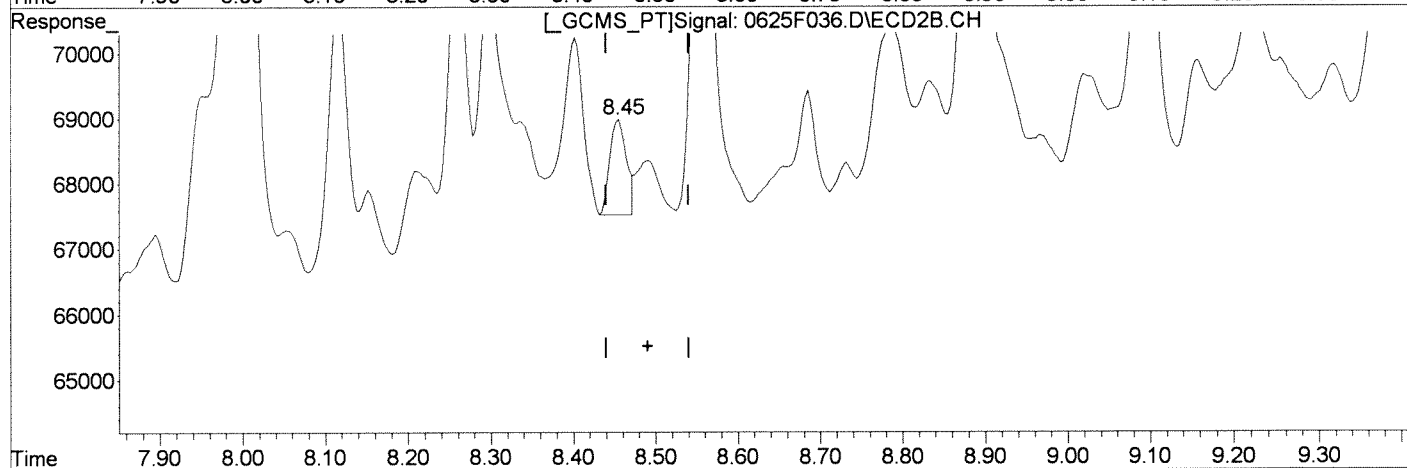
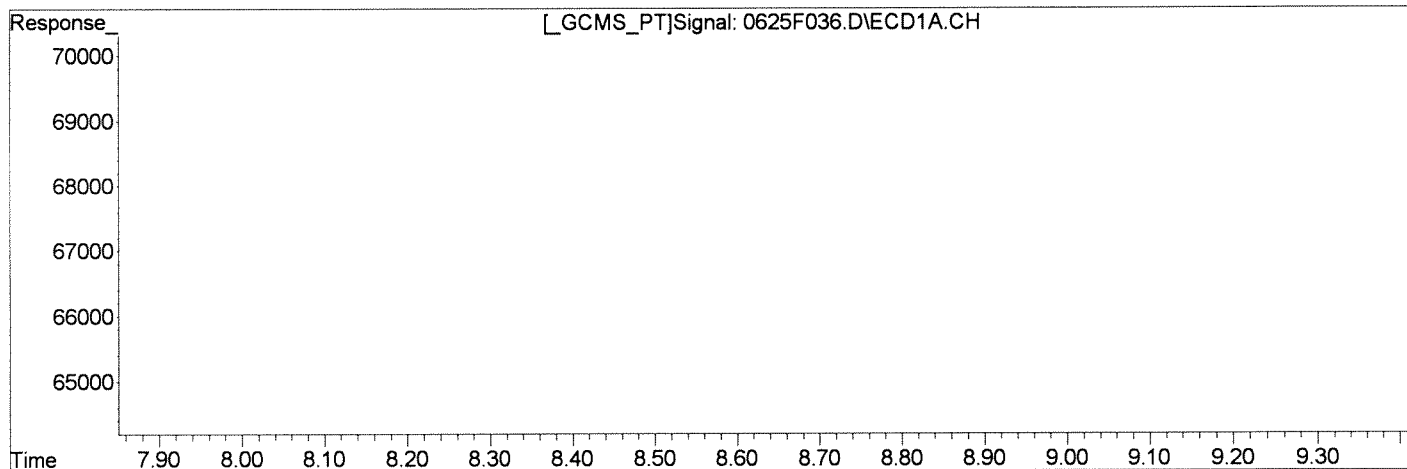
(+) = Expected Retention Time
0625F036.D GC23-031714-8081.M

Thu Jun 26 14:45:01 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F036.D\ECD1A.CH Vial: 29
Signal #2 : J:\GC23\DATA\062514\0625F036.D\ECD2B.CH
Acq On : 26 Jun 2014 7:18 am Operator: SMURRAY
Sample : K1405818-003 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F036.D\ECD1A.CH	
(3) alpha-BHC	Manual Integration:
9.63min 0.200ug/L	Before
response 6582	06/26/14
(3) alpha-BHC #2	
8.45min 0.158ug/L	
response 2091	

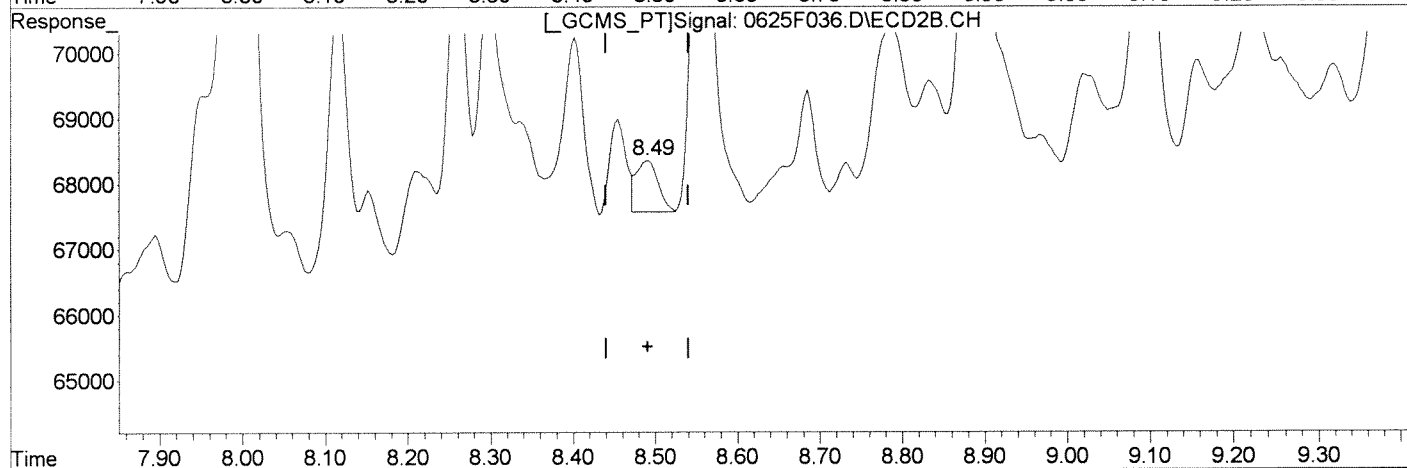
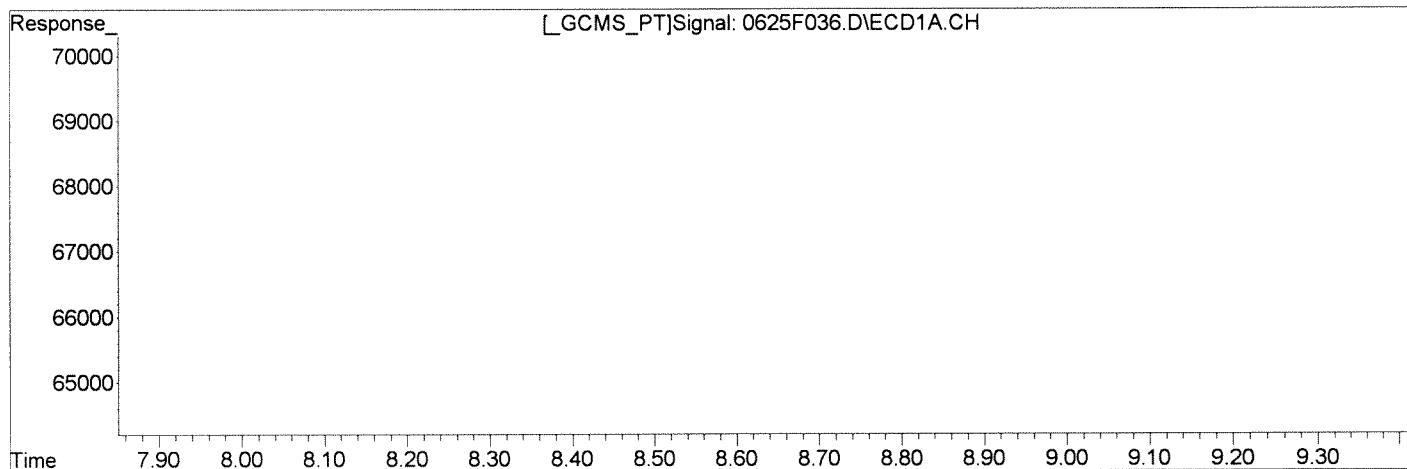
(+) = Expected Retention Time
0625F036.D GC23-031714-8081.M

Thu Jun 26 14:07:04 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F036.D\ECD1A.CH Vial: 29
Signal #2 : J:\GC23\DATA\062514\0625F036.D\ECD2B.CH
Acq On : 26 Jun 2014 7:18 am Operator: SMURRAY
Sample : K1405818-003 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F036.D\ECD1A.CH	
(3) alpha-BHC	Manual Integration:
9.63min 0.200ug/L	After
response 6582	Wrong Peak
	06/26/14
(3) alpha-BHC #2	
8.49min 0.107ug/L m	
response 1426	

Handwritten signature

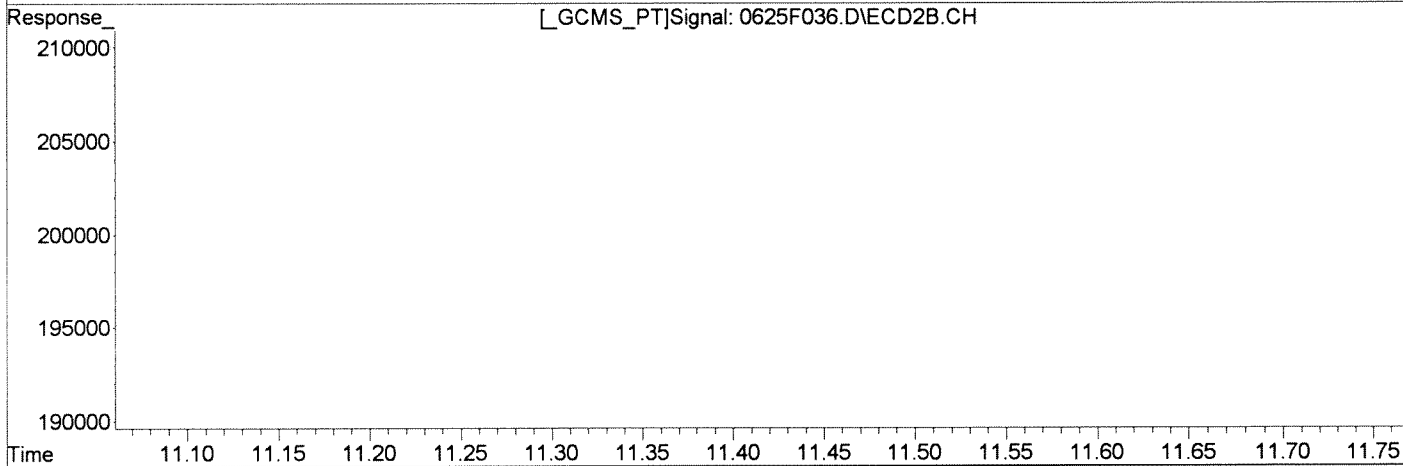
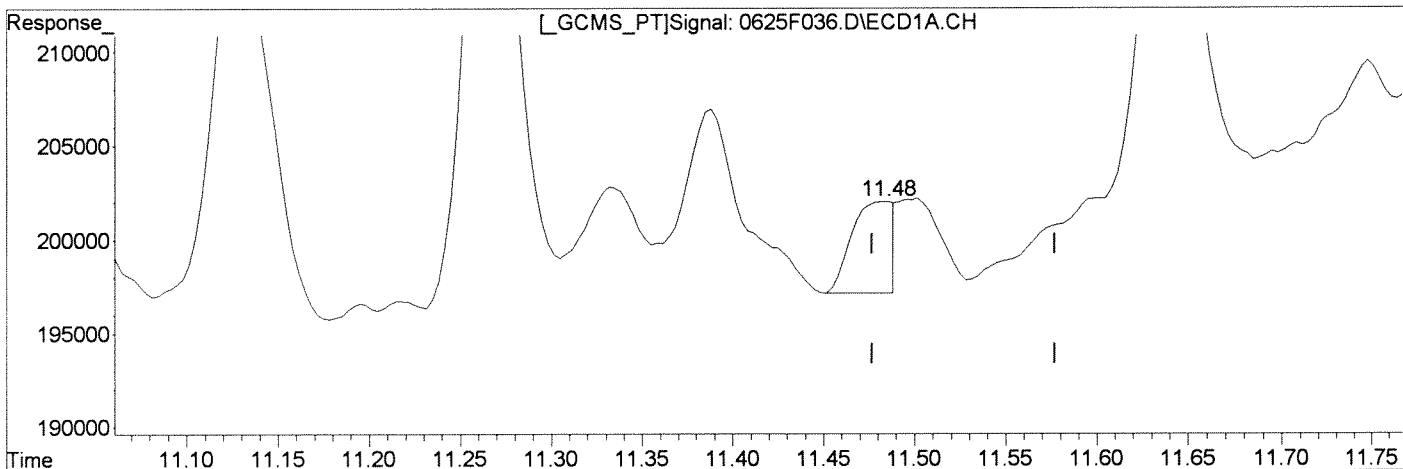
(+) = Expected Retention Time
0625F036.D GC23-031714-8081.M

Thu Jun 26 14:07:10 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F036.D\ECD1A.CH Vial: 29
Signal #2 : J:\GC23\DATA\062514\0625F036.D\ECD2B.CH
Acq On : 26 Jun 2014 7:18 am Operator: SMURRAY
Sample : K1405818-003 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F036.D\ECD1A.CH

(8) Heptachlor	Manual Integration:
11.48min 0.263ug/L	Before
response 7746	06/26/14
(8) Heptachlor #2	
9.92min 2.634ug/L	
response 30126	

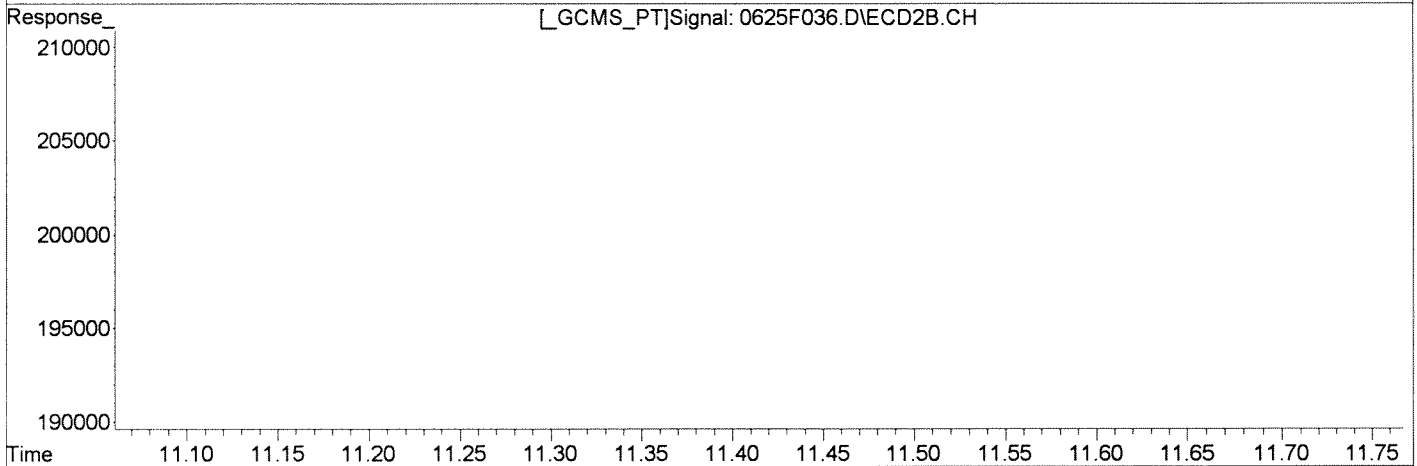
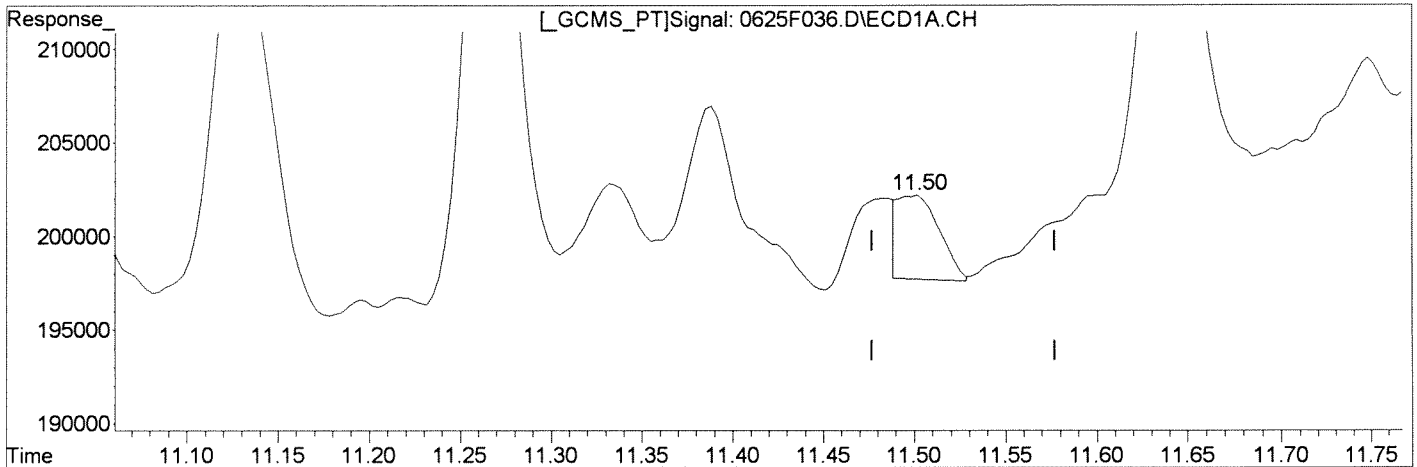
(+) = Expected Retention Time
0625F036.D GC23-031714-8081.M

Thu Jun 26 14:07:29 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F036.D\ECD1A.CH Vial: 29
Signal #2 : J:\GC23\DATA\062514\0625F036.D\ECD2B.CH
Acq On : 26 Jun 2014 7:18 am Operator: SMURRAY
Sample : K1405818-003 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F036.D\ECD1A.CH

(8) Heptachlor	Manual Integration:
11.50min 0.236ug/L m	After
response 6930	Wrong Peak
	06/26/14
(8) Heptachlor #2	
9.92min 2.634ug/L	
response 30126	

(+) = Expected Retention Time
0625F036.D GC23-031714-8081.M

Thu Jun 26 14:07:35 2014

Exception Report

Data File: J:\GC23\DATA\062514\0625F037.D
Lab ID: K1405818-004
RunType: SMPL
Matrix: WATER

Date Acquired: 06/26/2014 07:48
Date Quantitated: 06/26/2014 14:11
Batch ID: KWG1406791
Analysis Method: 8081B
ListJoinID: LJ13160

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		x
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	TC
Lab Control Spike	Toxaphene {2}	198	36	137	MCA
	Toxaphene {3}	0	36	137	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	SA
	1-Bromo-2-nitrobenzene {2}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.06	NA	NA	

Primary Review: km 6/26/14
 Secondary Review: _____

Exception Report

Data File: J:\GC23\DATA\062514\0625F037.D\0625F037C.D
Lab ID: K1405818-004
RunType: SMPL
Matrix: WATER

Date Acquired: 06/26/2014 07:48
Date Quantitated: 06/26/2014 14:11
Batch ID: KWG1406791
Analysis Method: 8081B
ListJoinID: LJ13160

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		x
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Lab Control Spike	Toxaphene {2}	198	36	137	<i>MCA</i>
	Toxaphene {3}	0	36	137	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.47	NA	NA	<i>[Handwritten Signature]</i>
	gamma-Chlordane	12	NA	NA	
	2,4'-DDE	12	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {4}	5.47	NA	NA	

Primary Review: *SM 6/26/14*

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F037.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F037.D\0625F037c.d	Vial:	30
Acqu Date:	06/26/2014 07:48	Quant Date:	06/26/2014 14:11
Run Type:	SMPL	Dilution:	1.0
Lab ID:	K1405818-004	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:	V	Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:	06/12/2014	Receive Date:	06/12/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	K1405818
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1350996	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:	Organochlorine Pesticides	Report List ID:	LJ13160
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Method ID:	MJ1013
Quant based on Report List			

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10c}	5.47 ^{-0.09c}	2190558	870517	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.06 ^{+0.14c}	5.47 ^{+0.08c}	2190558	870517	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.06 ^{+0.06c}	5.47 ^{+0.03c}	2190558	870517	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.06 ^{+0.14c}	5.47 ^{+0.08c}	2190558	870517	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{-0.01}	7.26 ^{-0.01}	1480423	609438	56.47	53.05	56 OK
						%Recovery =	56 OK 53 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{-0.01}	17.06 ^{-0.02}	1432942	584256	61.63	60.00	62 OK
						%Recovery =	62 OK 60 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC	9.64 ^{-0.02}	8.50 ^{-0.01}	7482	589m	0.2210	0.0430	0.00045J	0.00034U	0.00034U
1	beta-BHC		9.78 ^{-0.01}	0d	5140	0.0000	0.8070	0.00085U	0.0016J	0.00085U
1	gamma-BHC (Lindane)	10.32 ^{-0.02}	9.23 ^{-0.03}	1928	3590	0.0620	0.2810	0.00045U	0.00057J	0.00045U
1	delta-BHC	11.43 ^{-0.01}	10.29 ^{-0.03}	3091m	2504	0.1020	0.2000	0.00059U	0.00059U	0.00059U
1	Heptachlor	11.50 ^{-0.04}	9.93 ^{-0.01}	12209	32222	0.404d	2.70	0.00082J	0.0055J	0.00083Ui
1	Aldrin	12.09 ^{+0.01}	10.52 ^{-0.01}	3946	6363	0.1280	0.4830	0.00041U	0.00099J	0.00041U
1	Heptachlor Epoxide	12.78 ^{-0.02}	11.57 ^{-0.04}	3457	2373	0.1220	0.2020	0.00033U	0.00041J	0.00033U
1	gamma-Chlordane	13.31 ^{-0.01}	12.00 ^{+0.01c}	34641	1193m	1.21	0.0970	0.0025J	0.00033U	0.00033U
1	Endosulfan I	13.43 ^{-0.01}	12.16 ^{-0.04}	8197	1905	0.3200	0.1800	0.00065J	0.00045U	0.00045U

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F037.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F037.D\0625F037c.d	Vial:	30
Acqu Date:	06/26/2014 07:48	Quant Date:	06/26/2014 14:11
Run Type:	SMPL	Dilution:	1.0
Lab ID:	K1405818-004	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-Chlordane	13.35 ^{-0.04}		4743	0d	0.1670	0.0000	0.0041U	0.0041U	0.0041U
1	Dieldrin	13.87 ^{+0.01}	12.64 ^{-0.01}	2293	2487	0.0840	0.2080	0.00036U	0.00042J	0.00036U
1	4,4'-DDE	13.66 ^{-0.01}	12.44 ^{-0.05}	9630	2112	0.3490	0.1780	0.00071J	0.00037U	0.00037U
1	Endrin		13.08 ^{-0.05}	0d	2752	0.0000	0.2680	0.00070U	0.00070U	0.00070U
1	Endosulfan II	14.67 ^{-0.01}	13.57 ^{+0.01}	6148m	5086	0.2600	0.5170	0.00053J	0.0011J	0.00053JP
1	4,4'-DDD		13.36 ^{-0.02}	0	2051	0.0000	0.2210	0.0016U	0.0016U	0.0016U
1	Endrin Aldehyde	14.86	13.90 ^{-0.02}	7199	1765m	0.4640	0.2330	0.00095J	0.00048J	0.00048JP
1	4,4'-DDT		13.82 ^{+0.02}	0d	7053	0.0000	0.8040	0.00060U	0.0016J	0.00060U
1	Endrin Ketone		15.14 ^{-0.06}	0d	2730	0.0000	0.2420	0.00068U	0.00068U	0.00068U
1	Methoxychlor	15.71 ^{-0.05}		8944	0	0.8420	0.0000	0.0017J	0.00095U	0.00095U
1	2,4'-DDE	13.08 ^{-0.01}	12.00 ^{-0.02c}	2392	2244	0.1310	0.2920	0.00052U	0.00060J	0.00052U
1	2,4'-DDD	13.82	12.82 ^{+0.02}	2339	60480	0.1400	8.63	0.00059U	0.018	0.00059U
1	2,4'-DDT	14.28 ^{-0.04}		57006	0	3.28	0.0000	0.0067J	0.00061U	0.00061U
2	Toxaphene {1}		13.57 ^{-0.03}	0d	5086	0.0000	30.03	0.053U	0.061J	
	Toxaphene			0	0	19.65	134.84	0.053U	0.28J	0.053U
2	Toxaphene {2}	14.67 ^{+0.02}	13.64 ^{-0.02}	6382m	20806	29.90	311.69	0.061J	0.64	RPD
2	Toxaphene {3}	14.77 ^{-0.01}	13.94 ^{+0.01}	3217	5655	6.44	62.80	0.053U	0.13J	
2	Toxaphene {4}	14.86 ^{+0.02}		7199	0d	22.62	0.0000	0.053U	0.053U	
2	Toxaphene {5}			0	0	0.0000	0.0000	0.053U	0.053U	
2	Toxaphene {6}			0d	0	0.0000	0.0000	0.053U	0.053U	
3	Chlordane {1}			0d	0d	0.0000	0.0000	0.023U	0.023U	
	Chlordane			0	0	8.05	4.49	0.023U	0.023U	0.023U
3	Chlordane {2}	11.50 ^{-0.02}		12209	0d	8.20	0.0000	0.023U	0.023U	
3	Chlordane {3}		12.00 ^{+0.03}	0d	2244	0.0000	1.77	0.023U	0.023U	
3	Chlordane {4}	13.31 ^{+0.01}	12.04 ^{+0.02}	34641	1975	10.11	2.59	0.023U	0.023U	
3	Chlordane {5}	13.35 ^{-0.03}	12.10 ^{+0.02}	4743	4112	1.87	9.63	0.023U	0.023U	
3	Chlordane {6}	13.47 ^{+0.01}	12.10 ^{-0.02}	22093	4112	12.02	3.97	0.025J	0.023U	
4	Oxychlordane		11.39	0d	1399	0.0000	0.1410	0.0011U	0.0011U	0.0011U
4	cis-Nonachlor			0d	0	0.0000	0.0000	0.00062U	0.00062U	0.00062U
4	trans-Nonachlor	13.47	12.04 ^{+0.02}	22093	1975	0.7890	0.1620	0.0016J	0.00094U	0.00094U
4	Mirex			0	0	0.0000	0.0000	0.00083U	0.00083U	0.00083U

The +/- after Retention Time symbolize the direction of the RT shift

Prep Amount: 980 mL Dilution: 1.0
 Prep Final Vol: 2 mL Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ? : Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
 Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
 Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
 Sample : K1405818-004 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:37 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.47	2190558	870517	100.000	100.000
29) 1-Bromo-2-nitrob	6.06	5.47	2190558	870517	100.000	100.000
36) 1-Bromo-2-nitrob	6.06	5.47	2190558	870517	100.000	100.000
43) 1-Bromo-2-nitrob	6.06	5.47	2190558	870517	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.26	1480423	609438	56.468	53.052
28) s Decachlorobiphen	18.51	17.06	1432942	584256	61.632	60.002
Target Compounds						
3) alpha-BHC	9.64	8.50	7482	589	0.221	0.043m#
4) Hexachlorobenzen	0.00	8.27	0	4963	N.D. d	0.374
5) beta-BHC	0.00	9.78	0	5140	N.D. d	0.807
6) gamma-BHC (Linda	10.32	9.23	1928	3590	0.062	0.281 #
7) delta-BHC	11.43	10.29	3091	2504	0.102m	0.200 #
8) Heptachlor	11.50f	9.93	12209	32222	0.404	2.702 #
9) Aldrin	12.09	10.52	3946	6363	0.128	0.483 #
10) Isodrin	12.60	11.34f	2669	1899	0.104	0.174 #
11) Heptachlor Epoxi	12.78	11.57f	3457	2373	0.122	0.202 #
12) gamma-Chlordane	13.31	12.00f	34641	1193	1.206	0.097m#
13) Endosulfan I	13.43	12.16f	8197	1905	0.320	0.180 #
14) alpha-Chlordane	13.35f	0.00	4743	0	0.167	N.D. d#
15) Dieldrin	13.87	12.64	2293	2487	0.084	0.208 #
16) 4,4'-DDE	13.66	12.44f	9630	2112	0.349	0.178 #
17) Endrin	0.00	13.08f	0	2752	N.D. d	0.268
18) Endosulfan II	14.67	13.57f	6148	5086	0.260m	0.517 #
19) 4,4'-DDD	0.00	13.36	0	2051	N.D.	0.221 #
20) Endrin Aldehyde	14.86	13.90	7199	1765	0.464	0.233m#
21) Endosulfan Sulfa	15.35f	14.22	6583	3768	0.314m	0.411 #
22) 4,4'-DDT	0.00	13.82f	0	7053	N.D. d	0.804
23) Endrin Ketone	0.00	15.14f	0	2730	N.D. d	0.242
24) Methoxychlor	15.71f	0.00	8944	0	0.842	N.D. #
25) 2,4'-DDE	13.08	12.00	2392	2244	0.131	0.292 #
26) 2,4'-DDD	13.82	12.82f	2339	60480	0.140	8.627 #
27) 2,4'-DDT	14.28f	0.00	57006	0	3.284	N.D. #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
 0625F037.D GC23-031714-8081.M Thu Jun 26 14:21:25 2014 Page 1

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
 Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
 Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
 Sample : K1405818-004 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:37 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

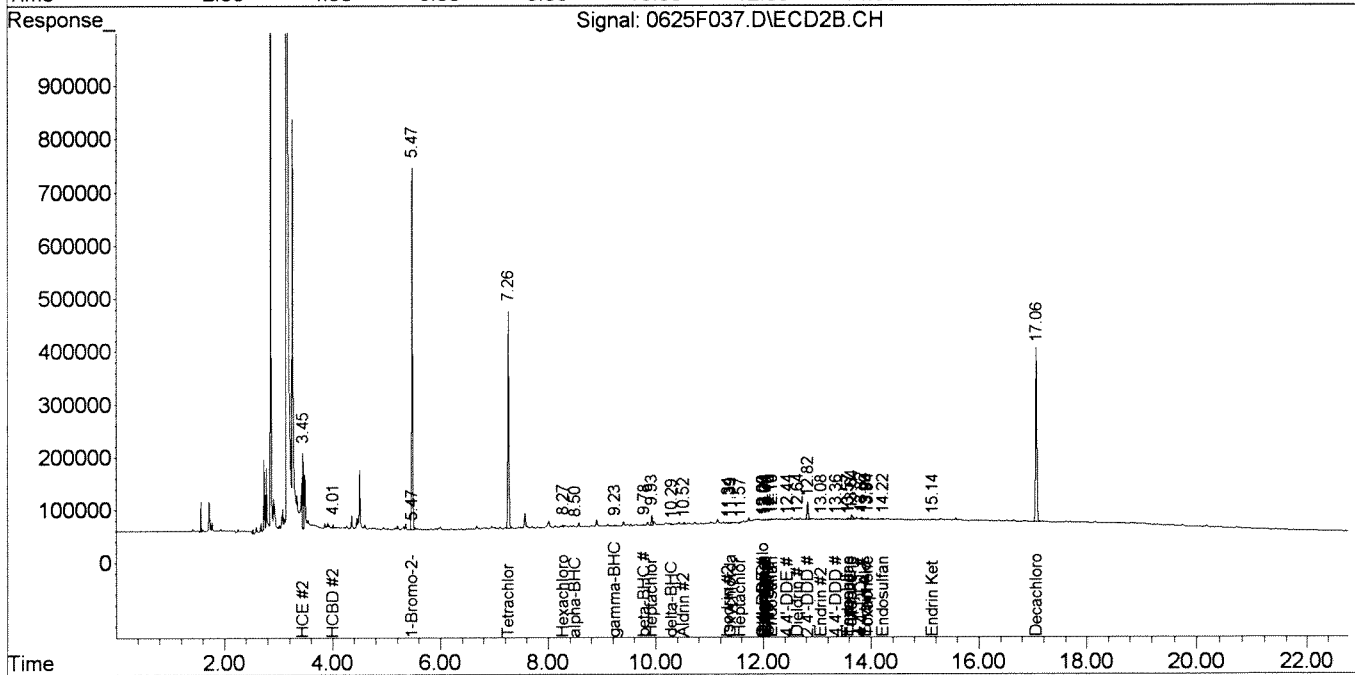
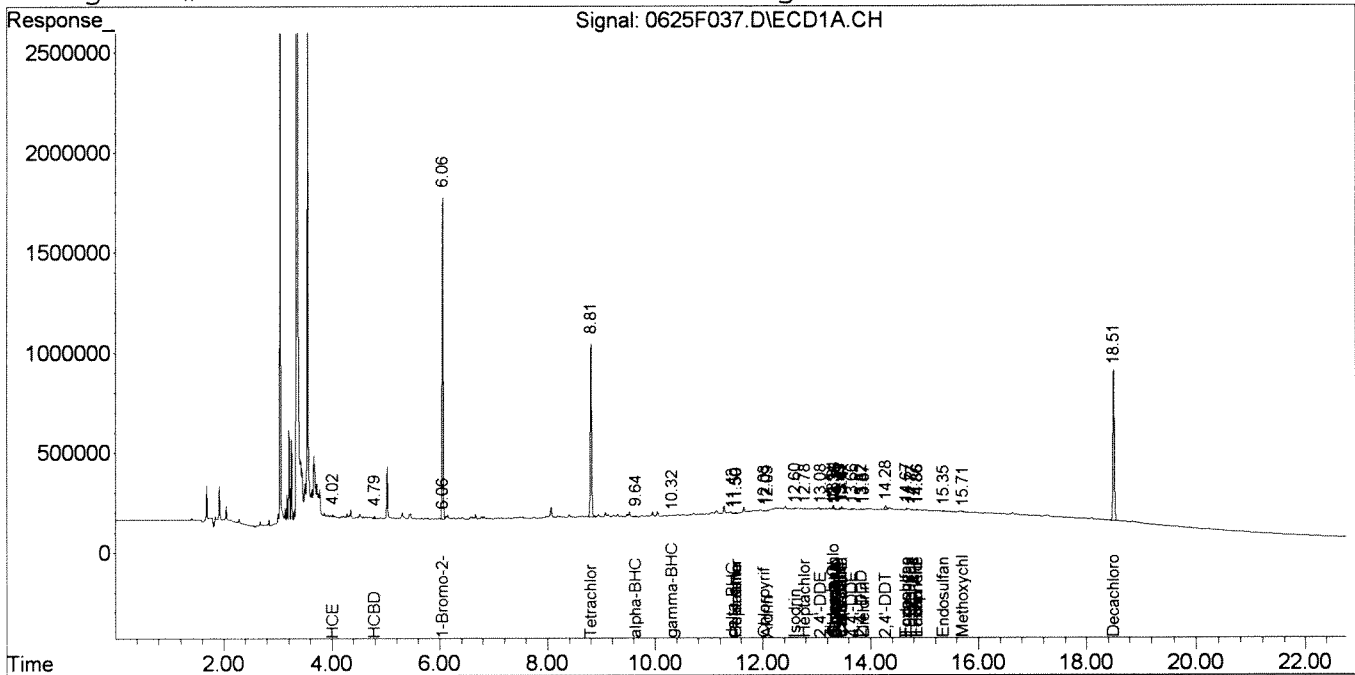
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
30) Toxaphene	0.00	13.57f	0	5086	N.D. d	30.030
31) Toxaphene {2}	14.67	13.64f	6382	20806	29.899m	311.685 #
32) Toxaphene {3}	14.77	13.94	3217	5655	6.435	62.796 #
33) Toxaphene {4}	14.86	0.00	7199	0	22.622	N.D. d#
38) Chlordane {2}	11.50	0.00	12209	0	8.196	N.D. d#
39) Chlordane {3}	0.00	12.00	0	2244	N.D. d	1.766
40) Chlordane {4}	13.31	12.04	34641	1975	10.110	2.589 #
41) Chlordane {5}	13.35f	12.10	4743	4112	1.873	9.633 #
42) Chlordane {6}	13.47	12.10f	22093	4112	12.022	3.967 #
44) Chlorpyrifos	12.03f	0.00	5980	0	0.506	N.D. #
45) Oxychlordane	0.00	11.39	0	1399	N.D. d	0.141
47) trans-Nonachlor	13.47	12.04	22093	1975	0.789	0.162 #
49) HCE	4.02	3.45	21922	176764	0.424	8.760 #
50) HCBd	4.79	4.01	22501	5586	0.568	0.345 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
 Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
 Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
 Sample : K1405818-004 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:11 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

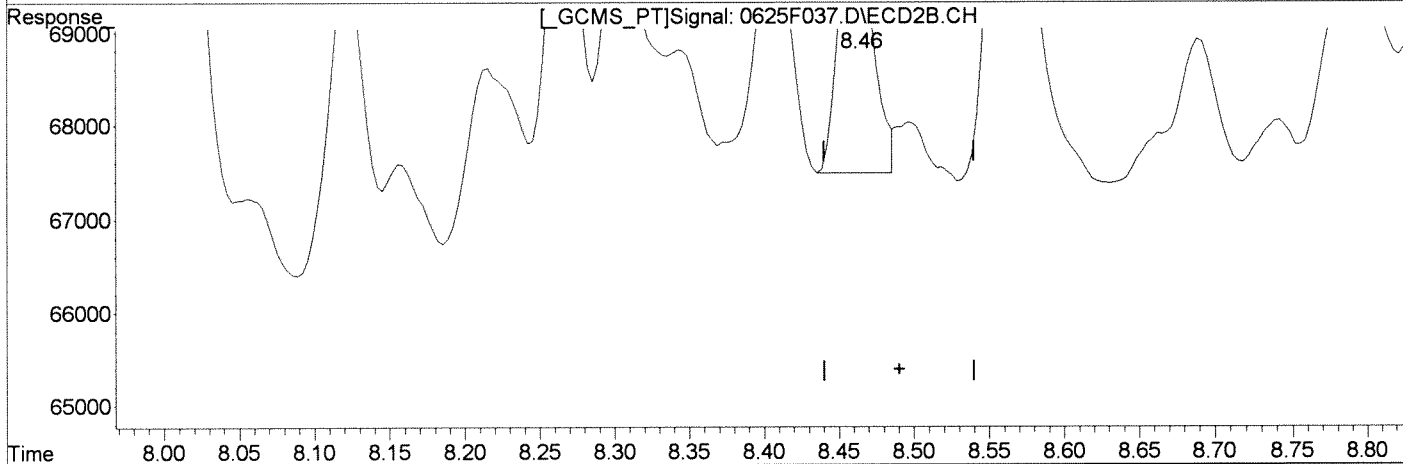
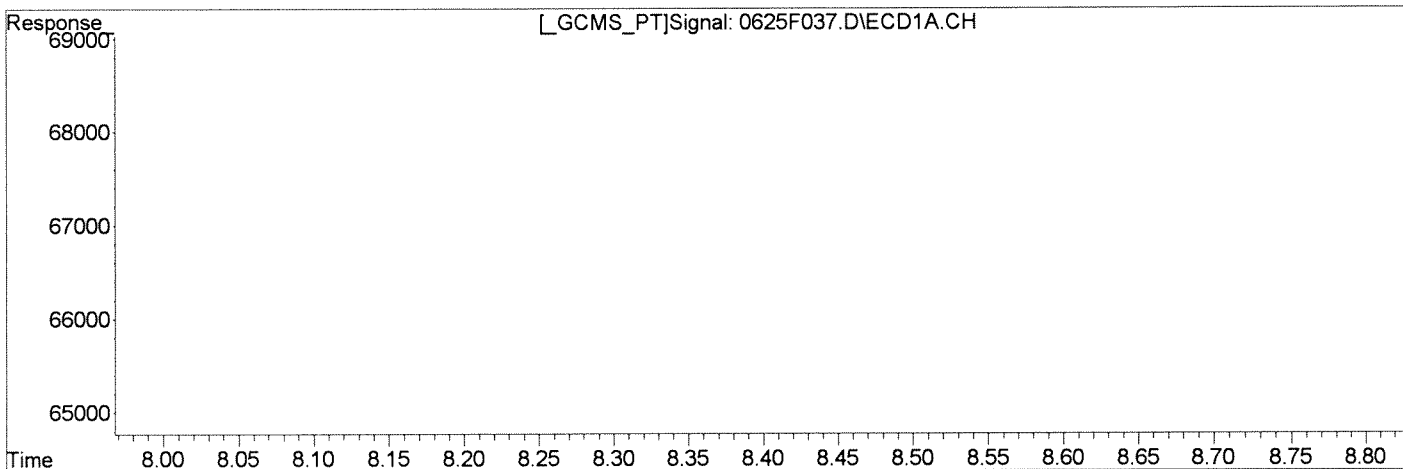
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH	
(3) alpha-BHC	Manual Integration:
9.64min 0.221ug/L	Before
response 7482	06/26/14
(3) alpha-BHC #2	
8.46min 0.343ug/L	
response 4748	

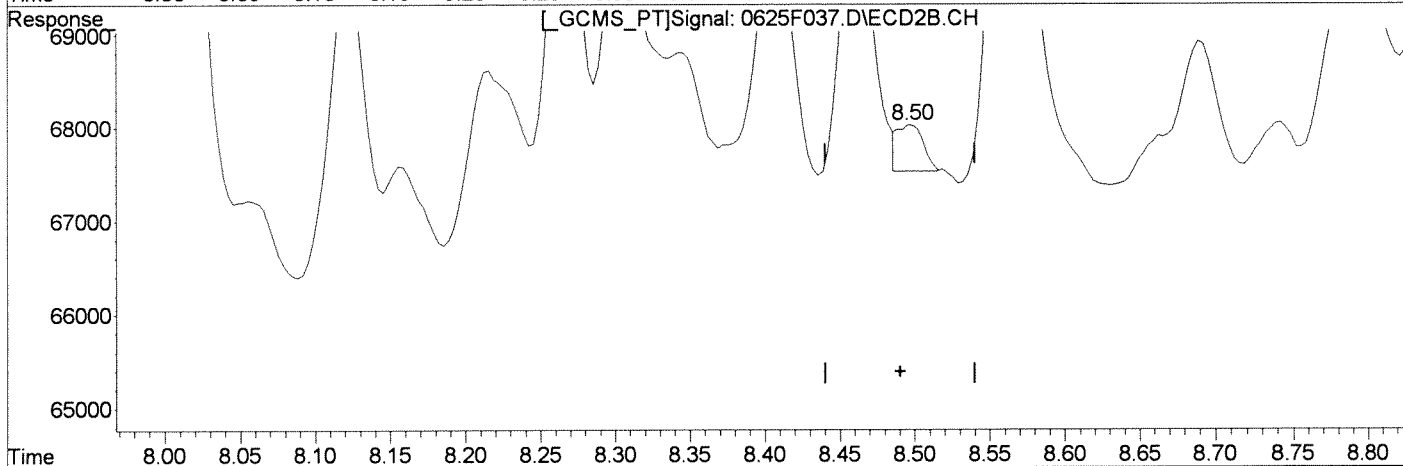
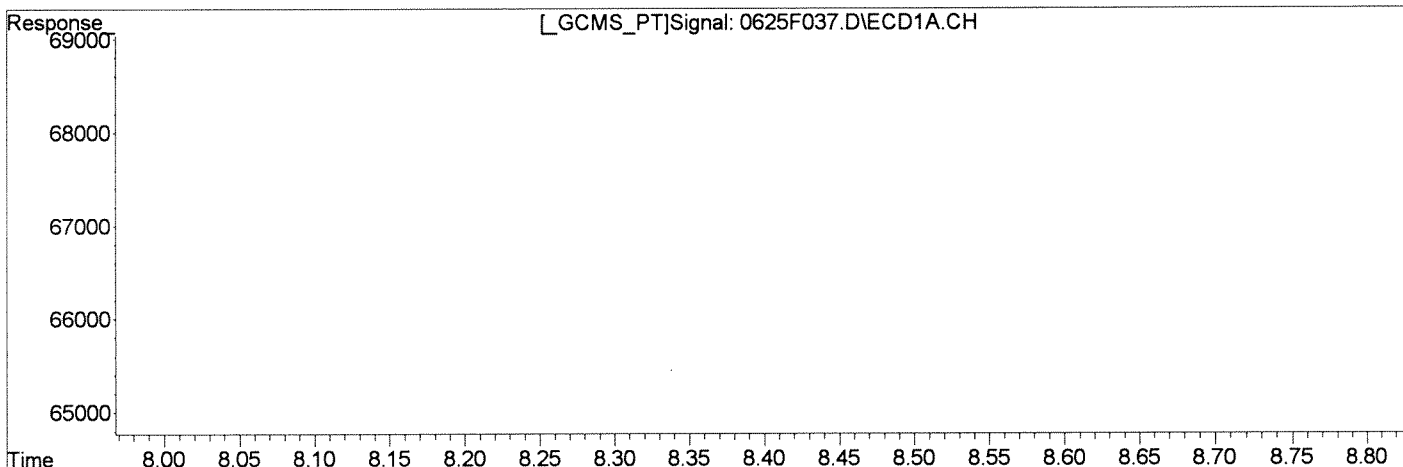
(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:09:07 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH

(3) alpha-BHC	Manual Integration:
9.64min 0.221ug/L	After
response 7482	Wrong Peak
	06/26/14
(3) alpha-BHC #2	
8.50min 0.043ug/L m	
response 589	

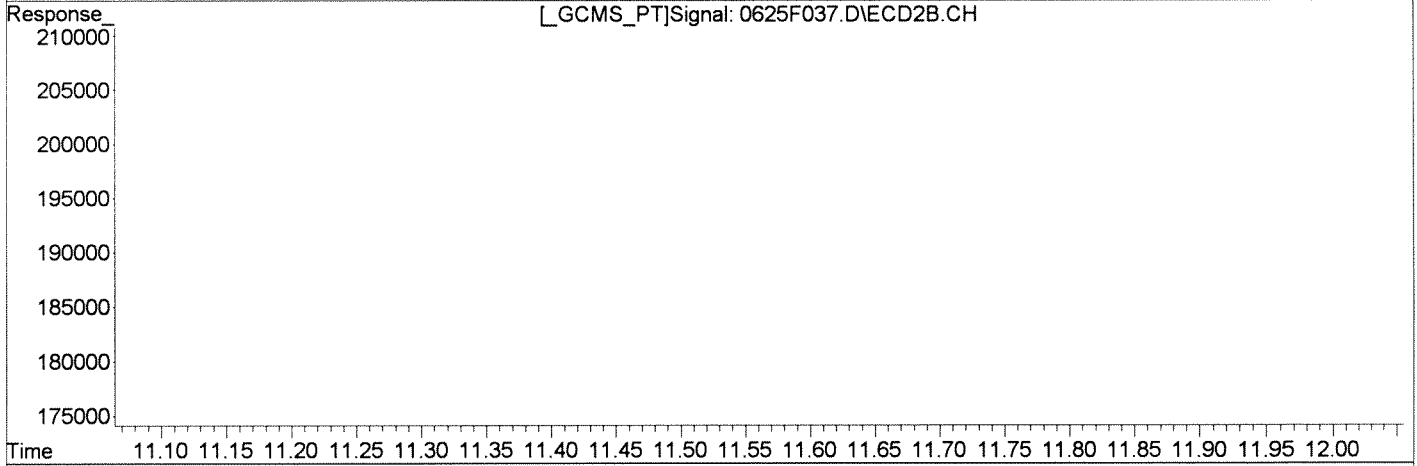
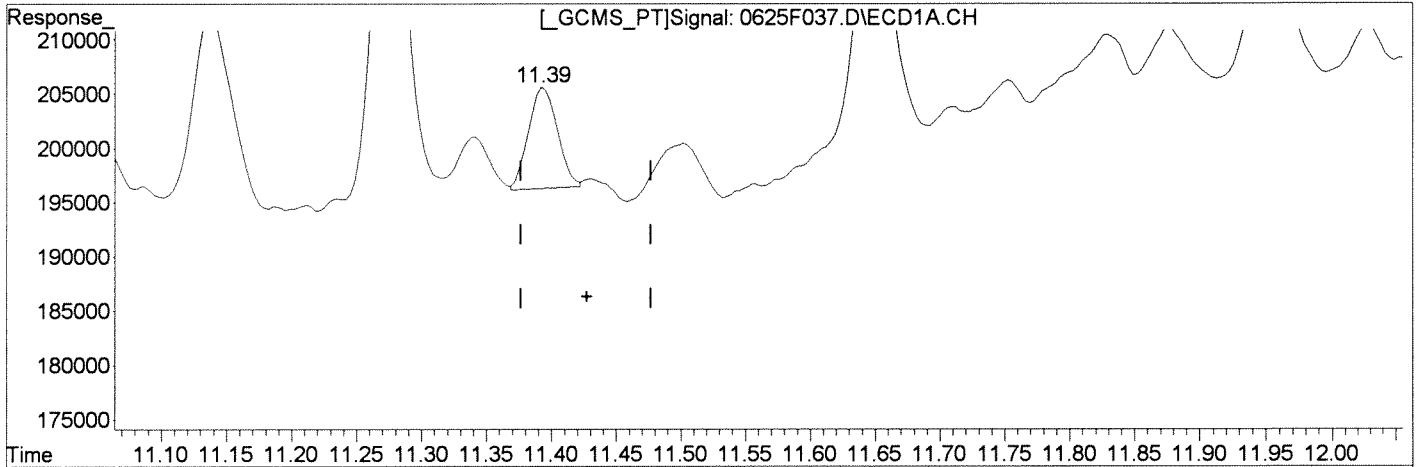
(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:09:11 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
 Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
 Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
 Sample : K1405818-004 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH

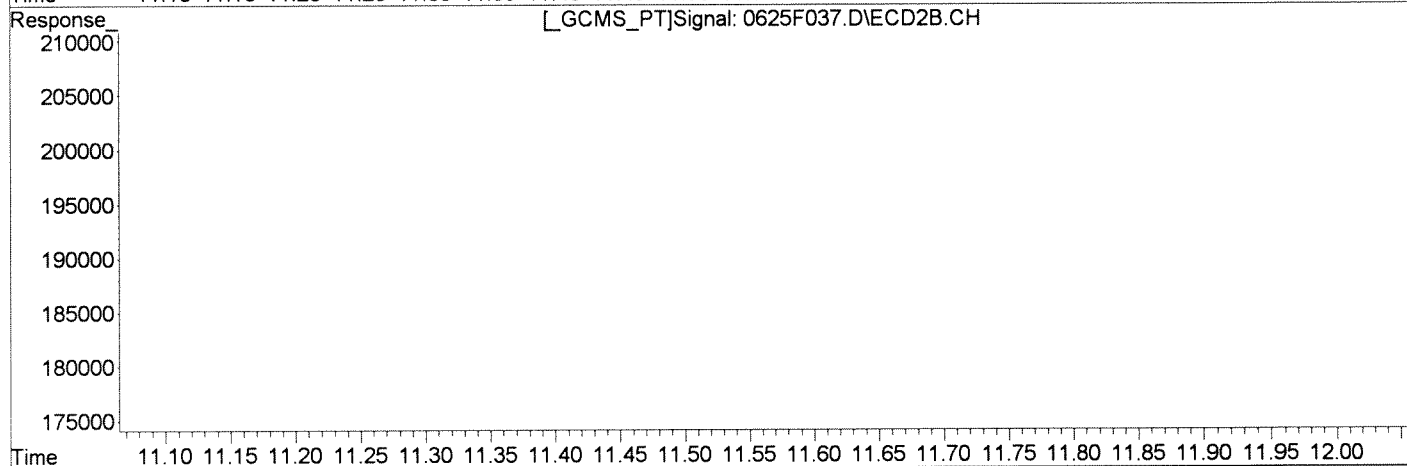
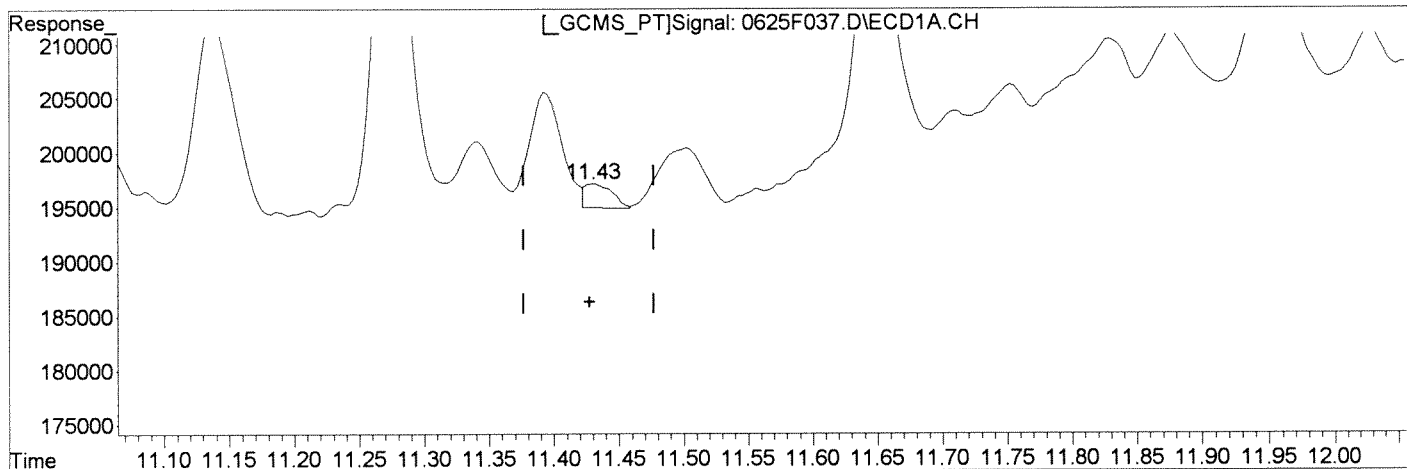
(7) delta-BHC	Manual Integration:
11.39min 0.480ug/L	Before
response 14517	06/26/14
(7) delta-BHC #2	
10.29min 0.200ug/L	
response 2504	

(+) = Expected Retention Time
 0625F037.D GC23-031714-8081.M Thu Jun 26 14:09:21 2014

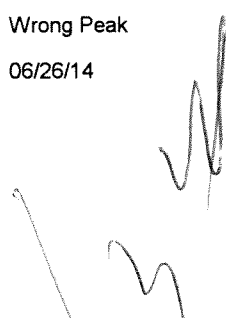
Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH

(7) delta-BHC 11.43min 0.102ug/L m response 3091	Manual Integration: After Wrong Peak 06/26/14
(7) delta-BHC #2 10.29min 0.200ug/L response 2504	

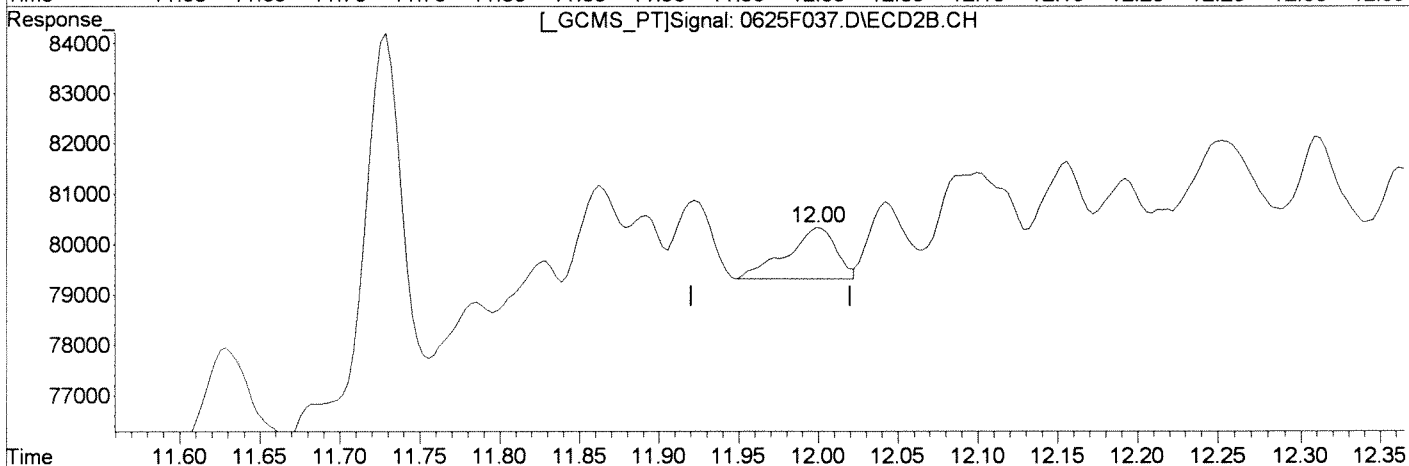
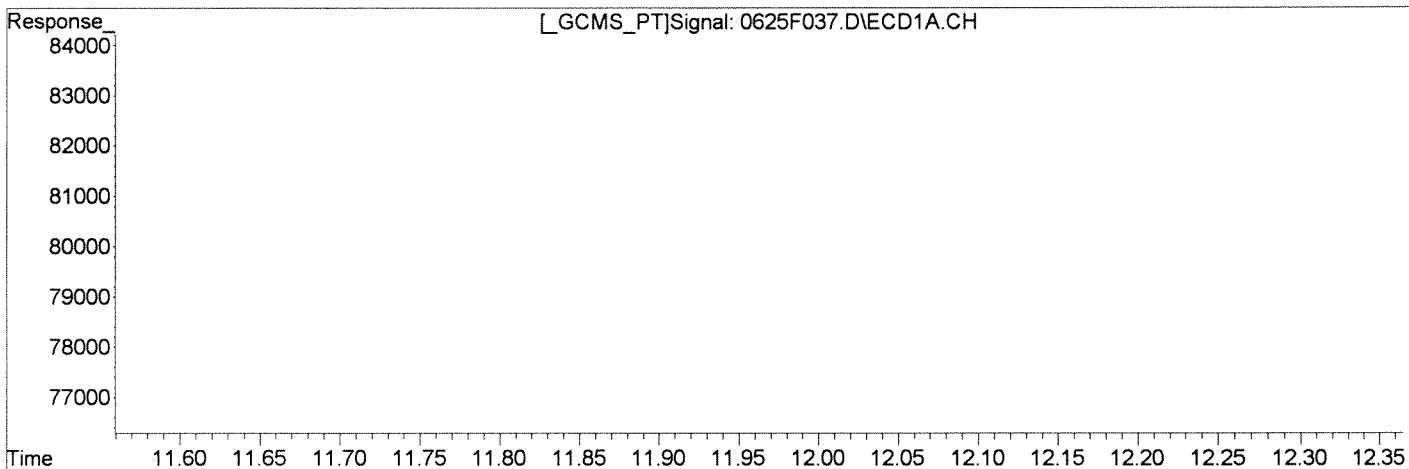
(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:09:24 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH	
(12) gamma-Chlordane	Manual Integration:
13.31min 1.206ug/L	Before
response 34641	06/26/14
(12) gamma-Chlordane #2	
12.00min 0.183ug/L	
response 2244	

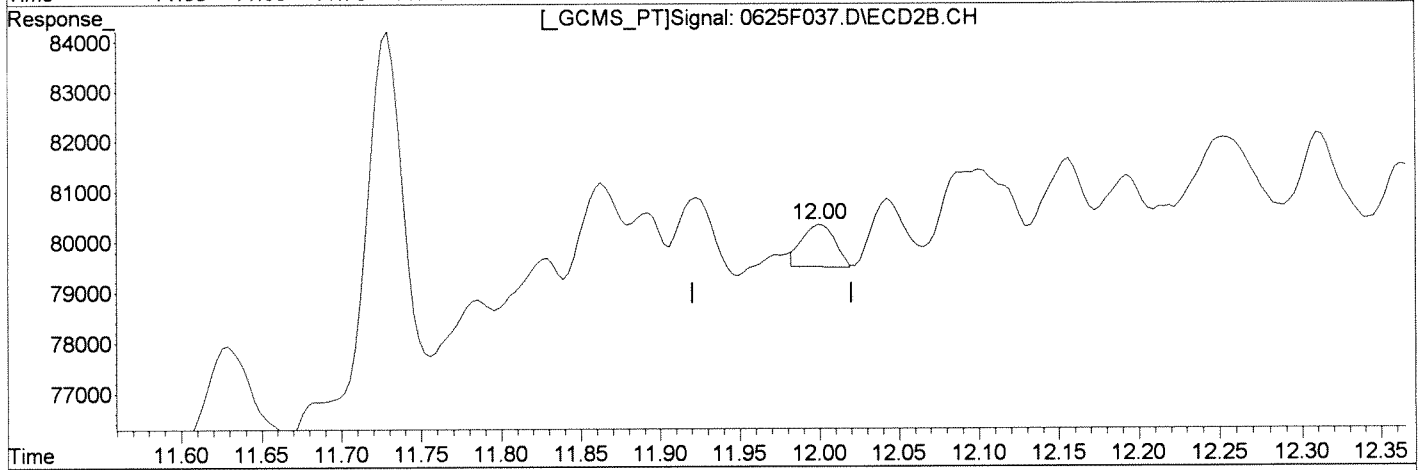
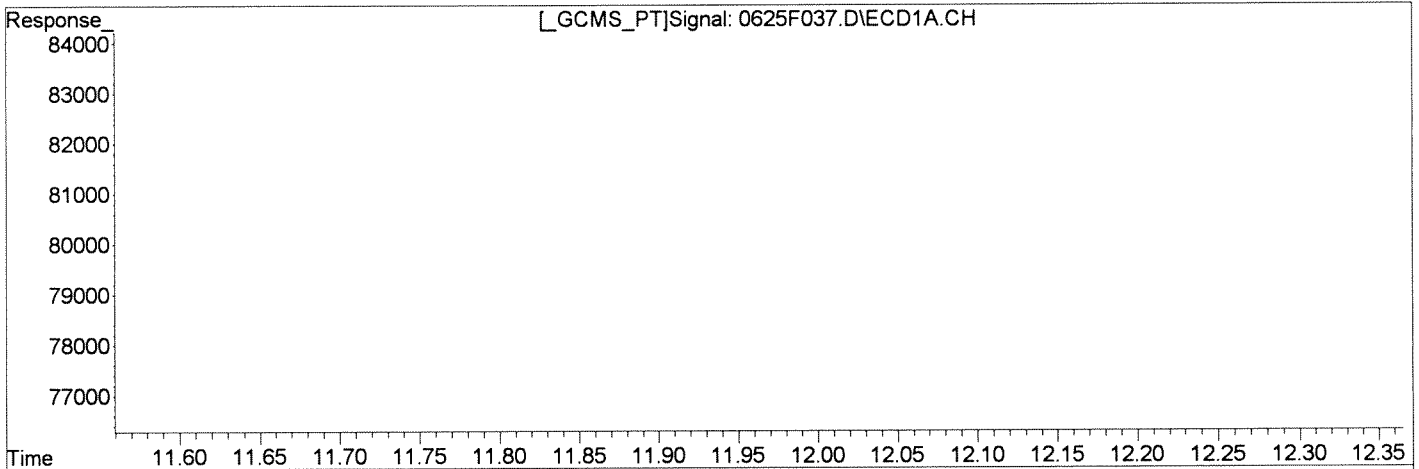
(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:09:33 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH	
(12) gamma-Chlordane	Manual Integration:
13.31min 1.206ug/L	After
response 34641	Baseline/Shoulder
	06/26/14
(12) gamma-Chlordane #2	
12.00min 0.097ug/L m	
response 1193	

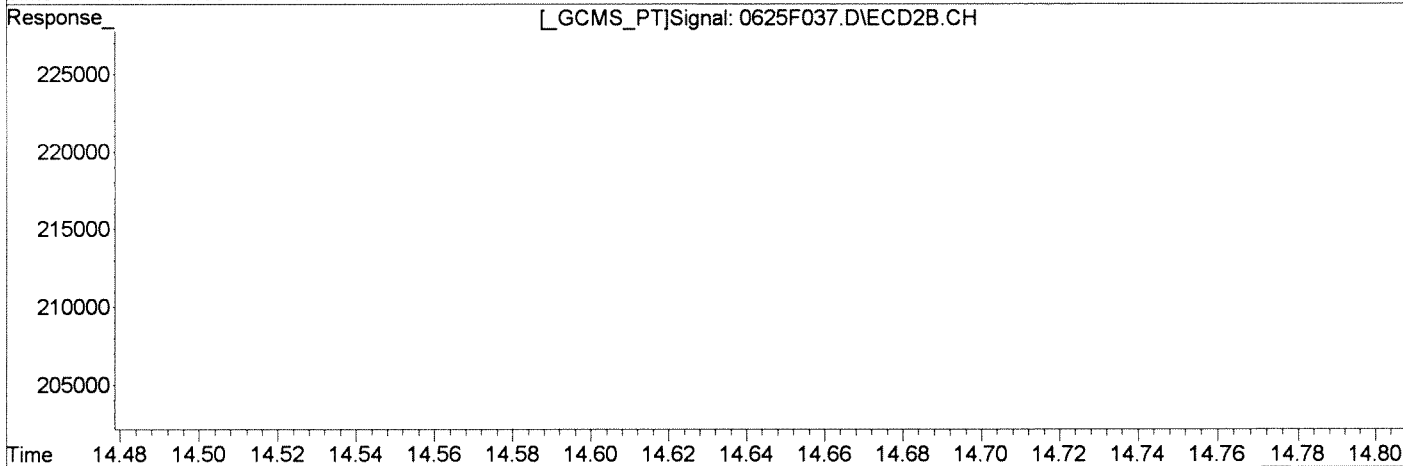
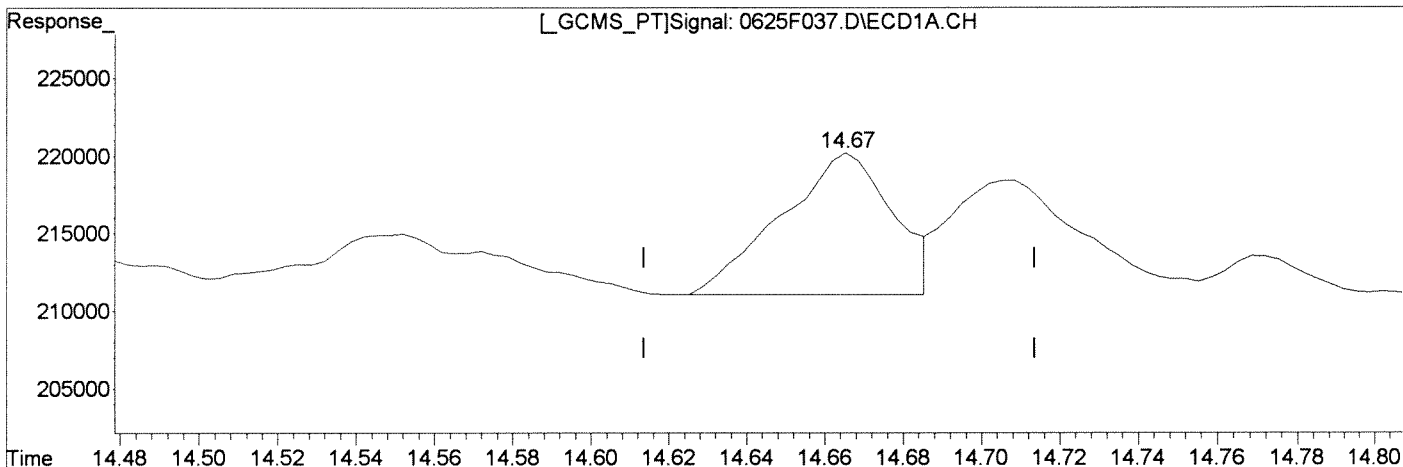
(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:09:36 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
14.67	0.770	18232
13.57	0.517	5086

Manual Integration:
Before
06/26/14

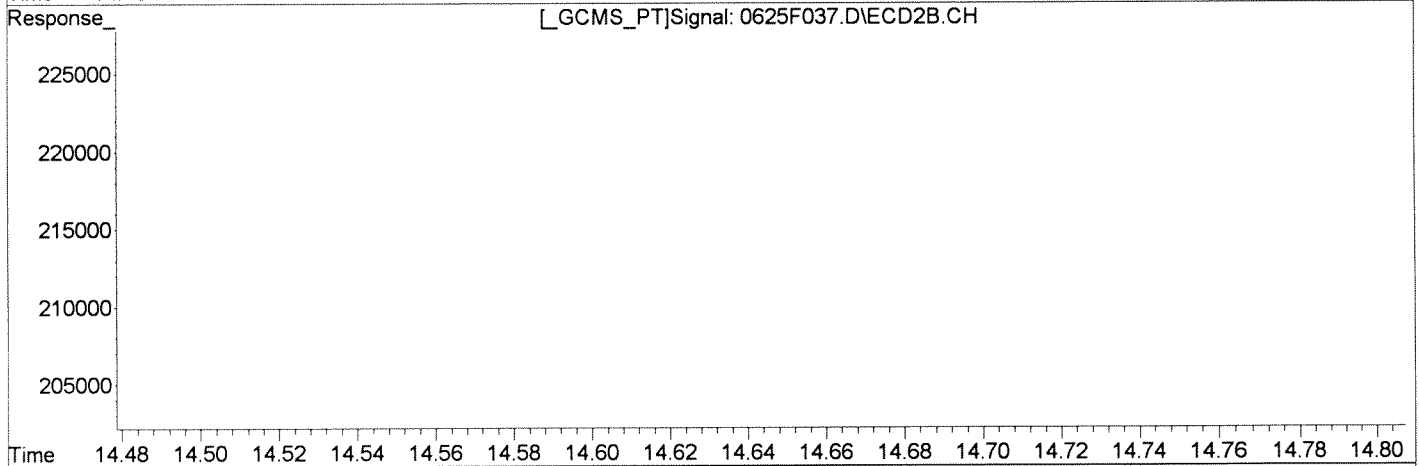
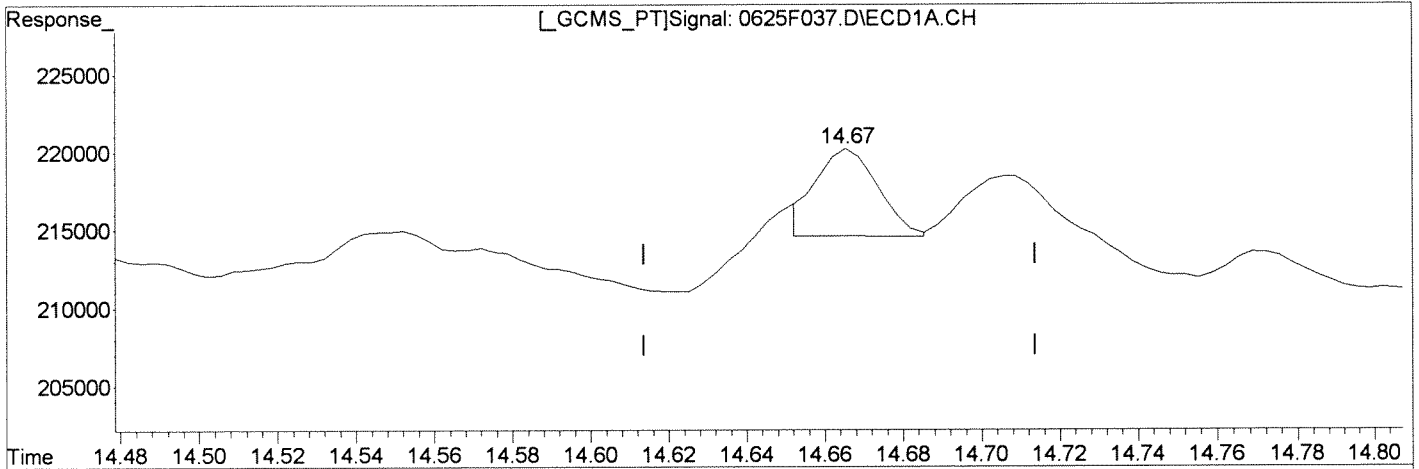
(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:09:48 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

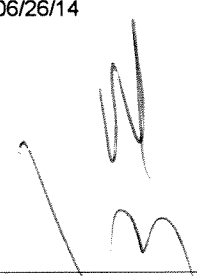
Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
14.67	0.260	6148
13.57	0.517	5086

Manual Integration:
After
Baseline/Shoulder
06/26/14



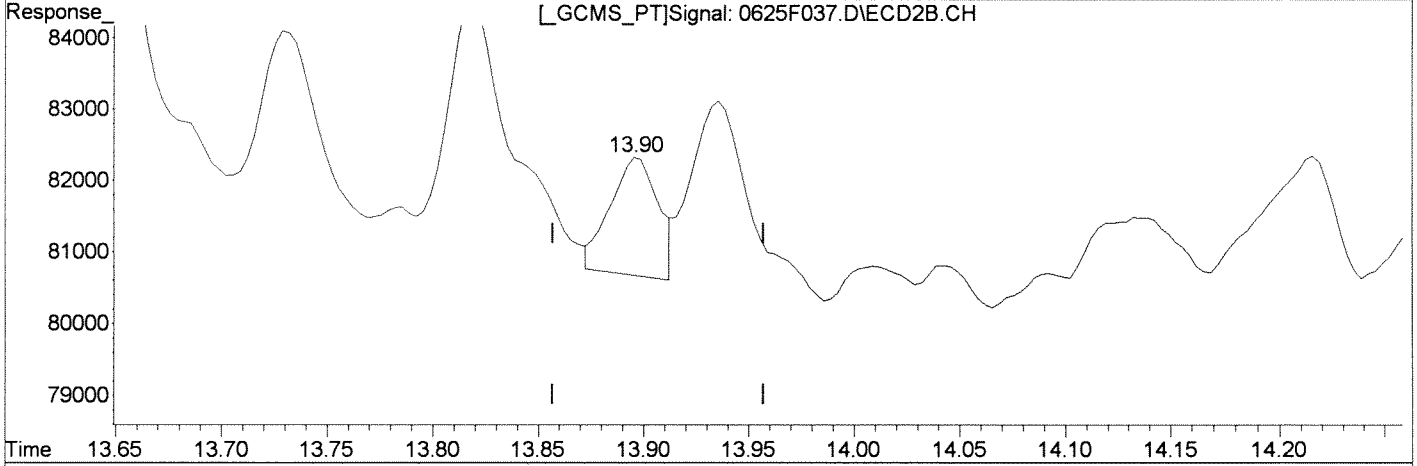
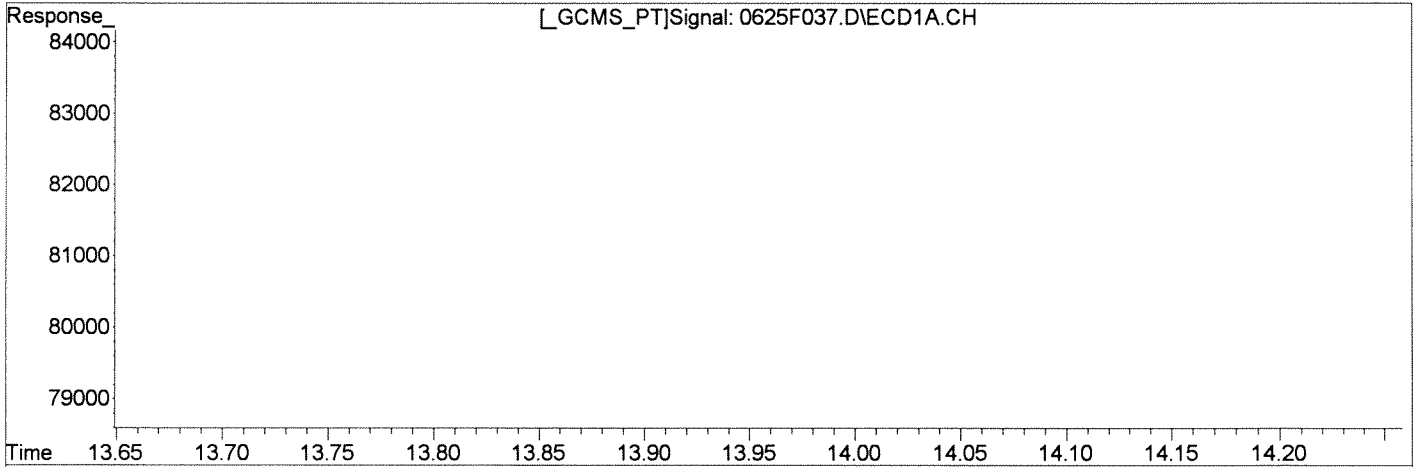
(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:09:50 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH	
(20) Endrin Aldehyde	Manual Integration:
14.86min 0.464ug/L	Before
response 7199	06/26/14
(20) Endrin Aldehyde #2	
13.90min 0.346ug/L	
response 2625	

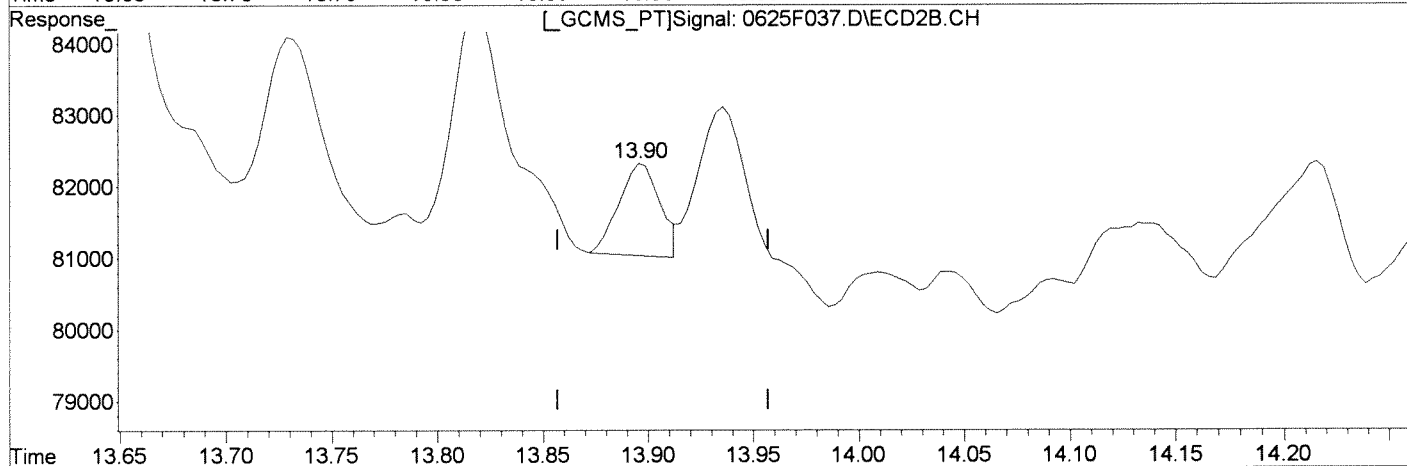
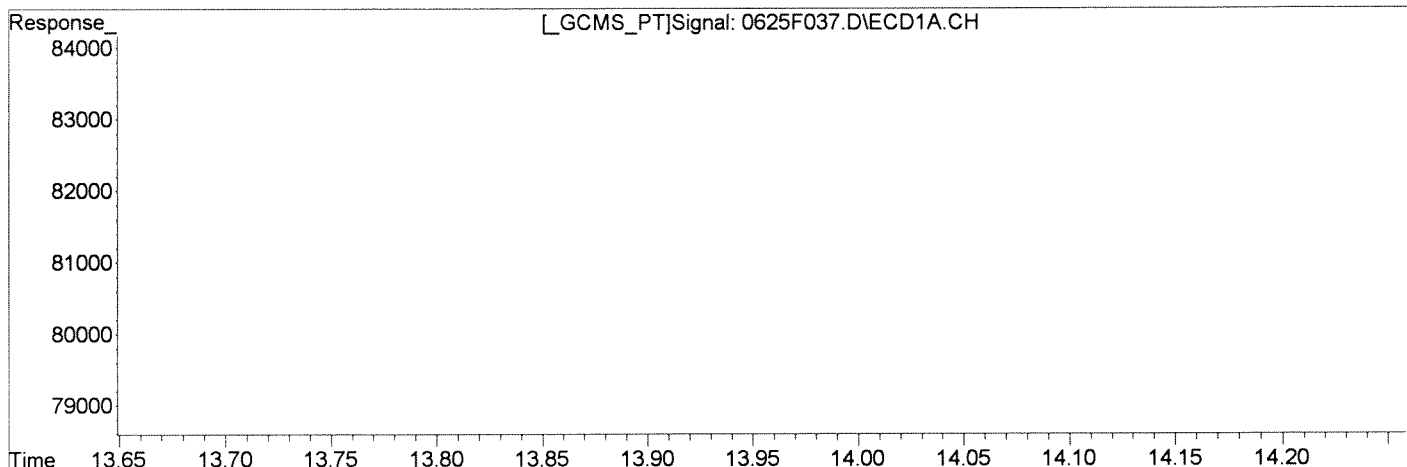
(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:09:55 2014

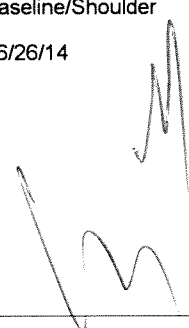
Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH	
(20) Endrin Aldehyde	Manual Integration:
14.86min 0.464ug/L	After
response 7199	Baseline/Shoulder
	06/26/14
(20) Endrin Aldehyde #2	
13.90min 0.233ug/L m	
response 1765	



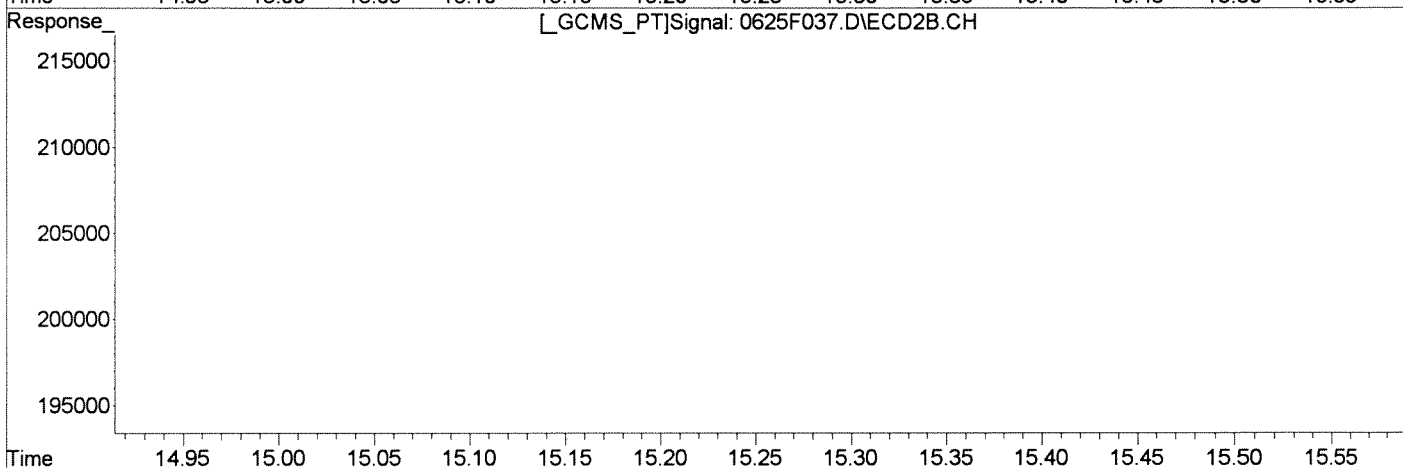
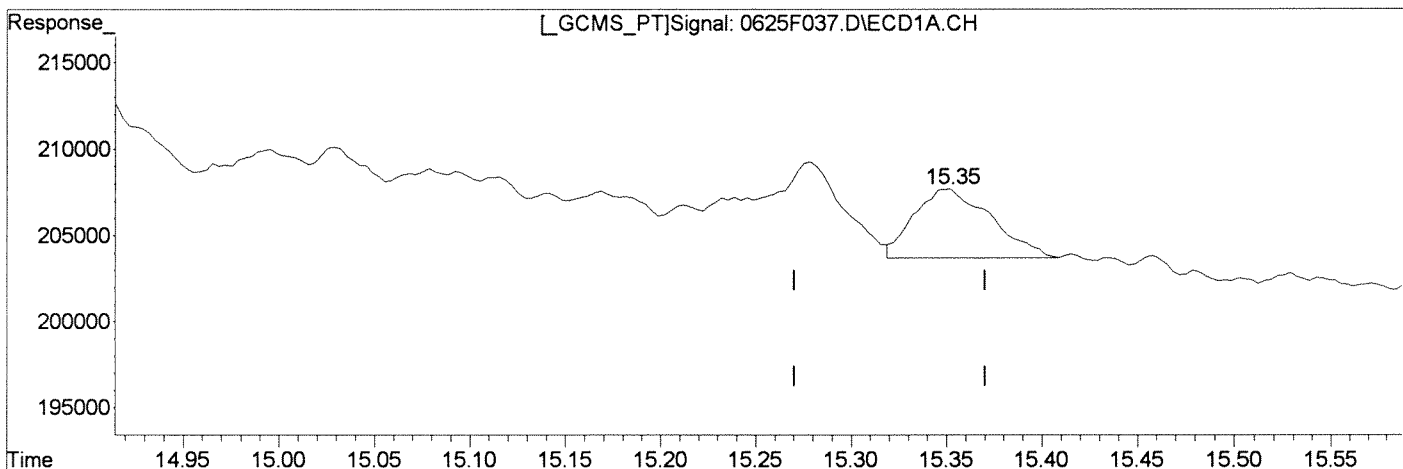
(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:09:58 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
15.35min	0.531ug/L	11140
14.22min	0.411ug/L	3768

Manual Integration:
Before
06/26/14

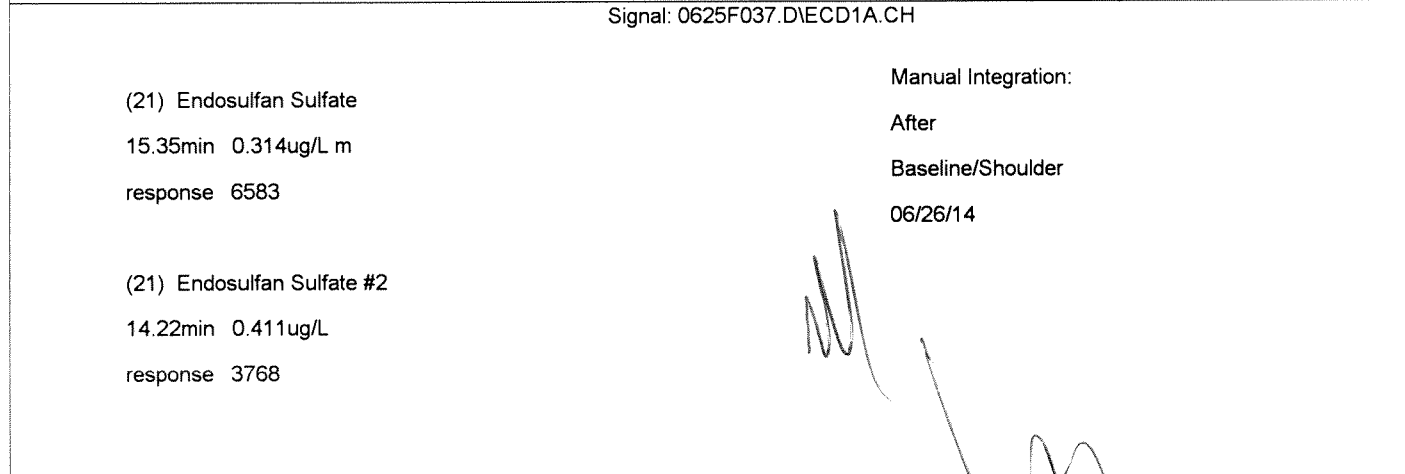
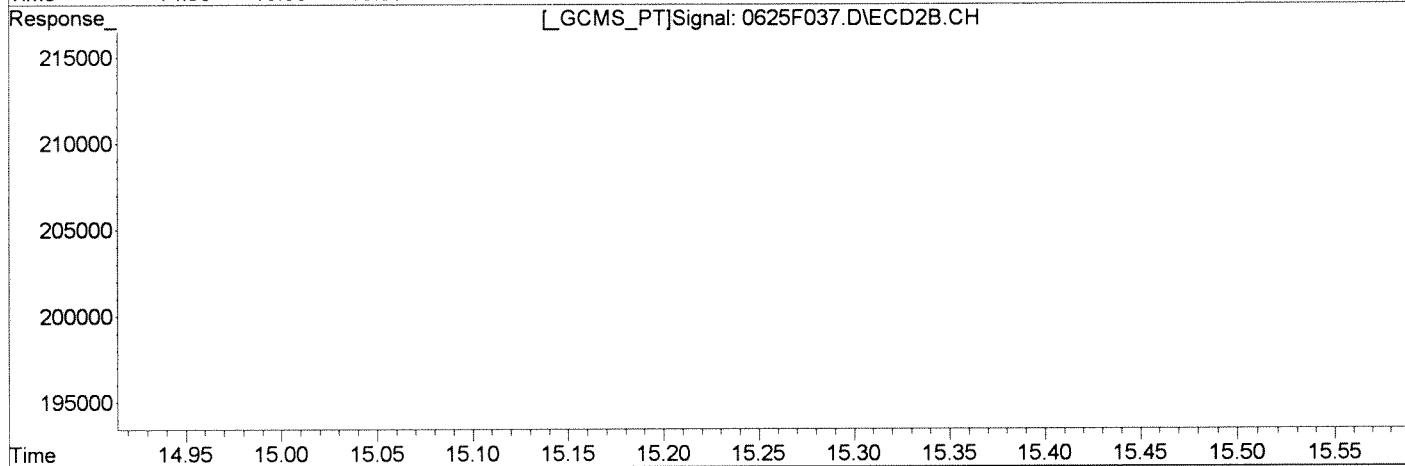
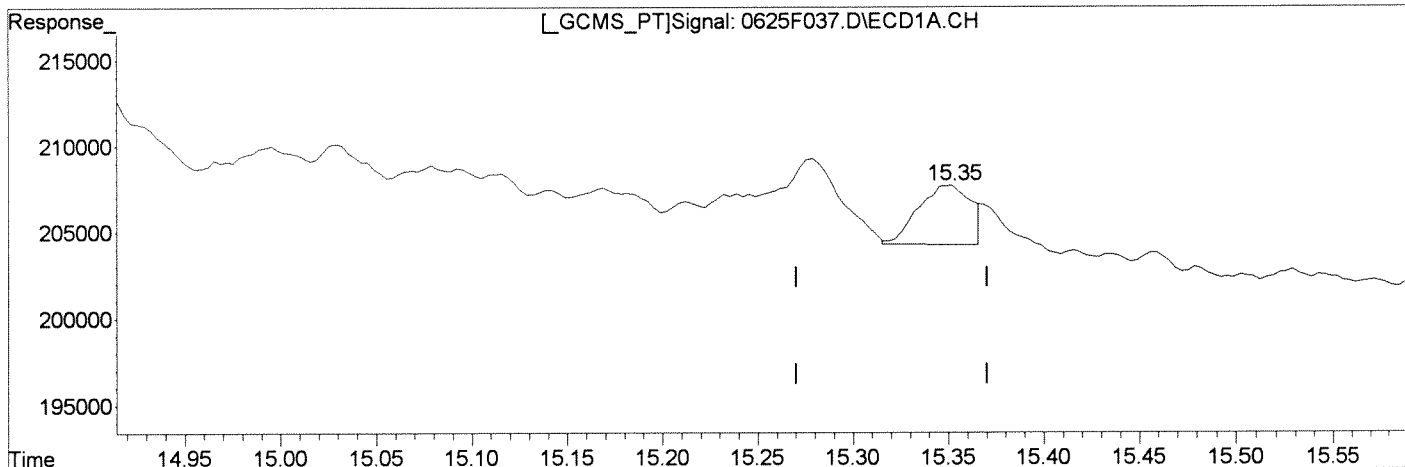
(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:10:02 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



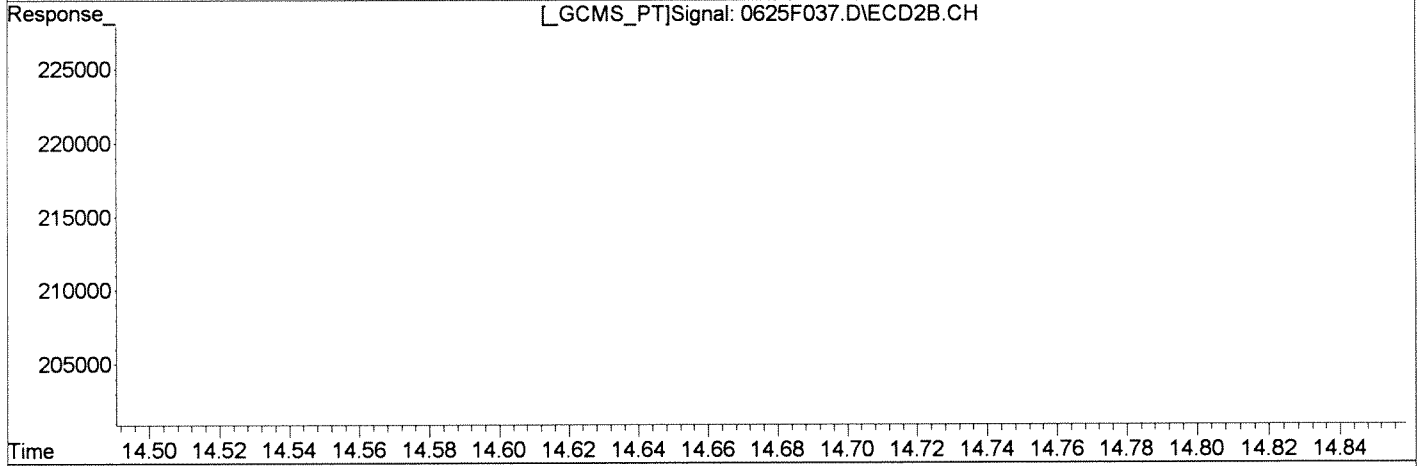
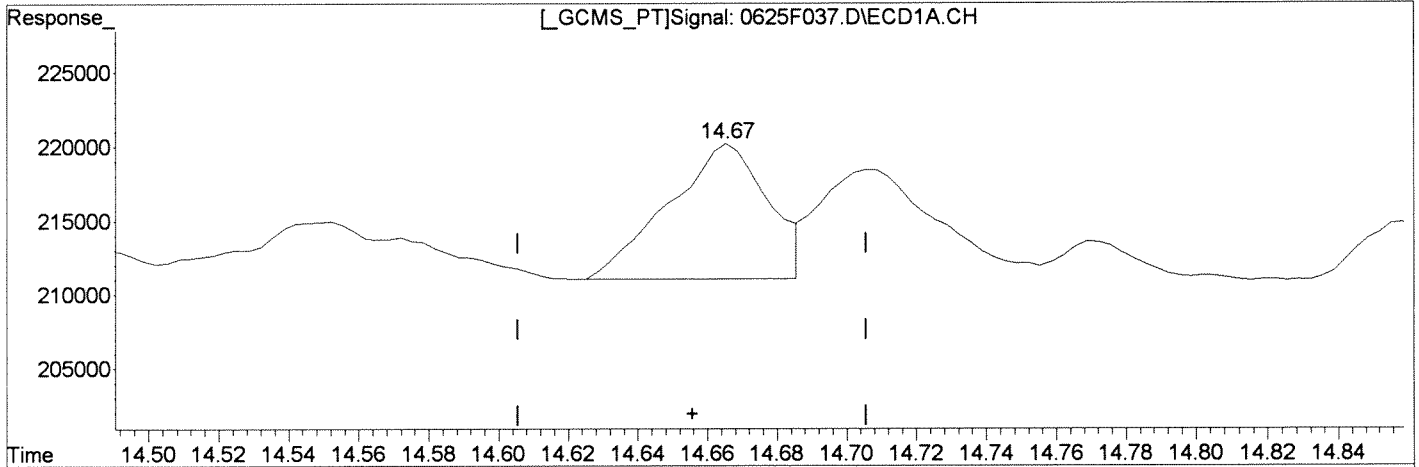
(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:10:05 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH

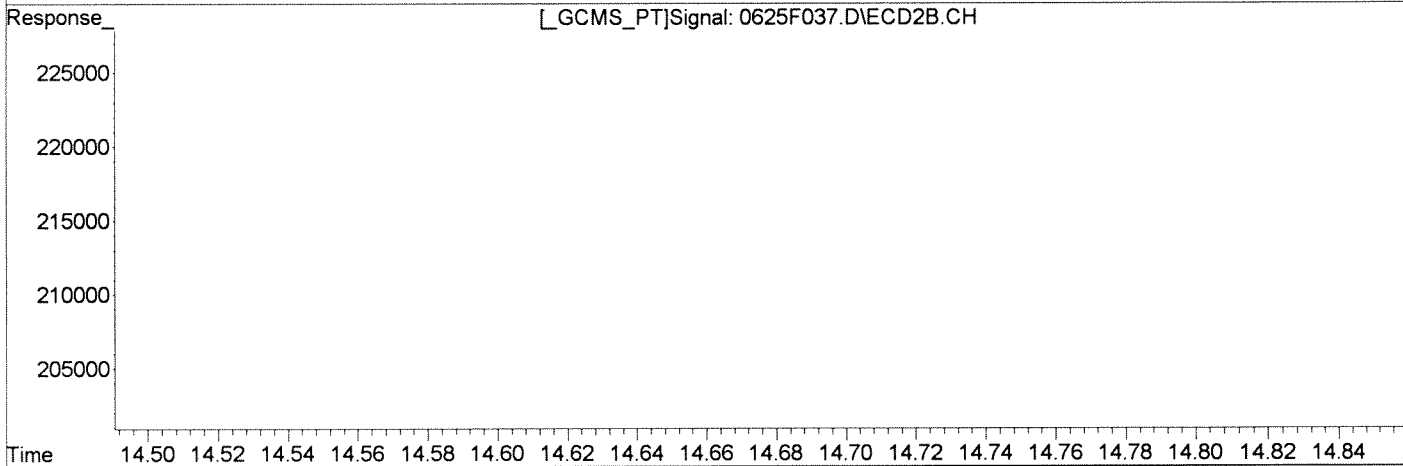
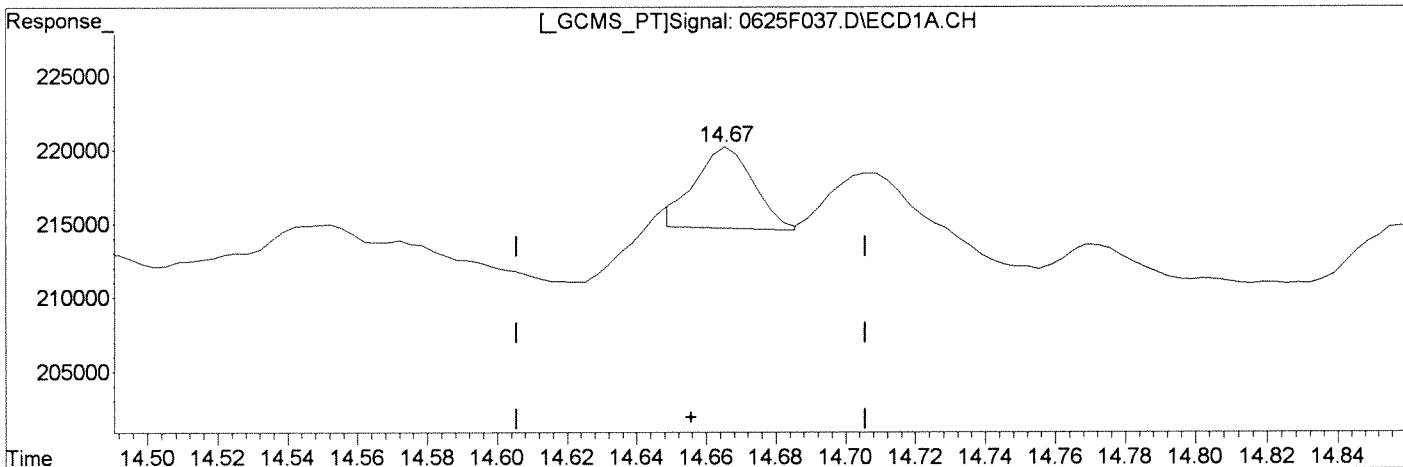
Retention Time	Concentration	Response	Integration
(31) Toxaphene {2}			Manual Integration:
14.67min	85.416ug/L	18232	Before
(31) Toxaphene {2} #2			06/26/14
13.64min	311.685ug/L	20806	

(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M Thu Jun 26 14:10:32 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F037.D\ECD1A.CH Vial: 30
Signal #2 : J:\GC23\DATA\062514\0625F037.D\ECD2B.CH
Acq On : 26 Jun 2014 7:48 am Operator: SMURRAY
Sample : K1405818-004 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F037.D\ECD1A.CH

(31) Toxaphene {2}	Manual Integration:
14.67min 29.899ug/L m	After
response 6382	Baseline/Shoulder
	06/26/14
(31) Toxaphene {2} #2	
13.64min 311.685ug/L	
response 20806	

(+) = Expected Retention Time
0625F037.D GC23-031714-8081.M

Thu Jun 26 14:10:35 2014

Exception Report

Data File: J:\GC23\DATA\062514\0625F022.D
Lab ID: KWG1405574-7
RunType: MB
Matrix: WATER


Date Acquired: 06/26/2014 00:24
Date Quantitated: 06/26/2014 13:35
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	W
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.05	NA	NA	C
	Endrin	14.26	NA	NA	
	2,4'-DDT	14.26	NA	NA	
	1-Bromo-2-nitrobenzene {2}	6.05	NA	NA	SA
	1-Bromo-2-nitrobenzene {3}	6.05	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.05	NA	NA	

Primary Review: 

Secondary Review: _____

Exception Report

Data File: J:\GC23\DATA\062514\0625F022.D\0625F022C.D
Lab ID: KWG1405574-7
RunType: MB
Matrix: WATER

Date Acquired: 06/26/2014 00:24
Date Quantitated: 06/26/2014 13:35
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.47	NA	NA	
	2,4'-DDT	13.2	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {4}	5.47	NA	NA	
	cis-Nonachlor	13.2	NA	NA	

Primary Review:

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F022.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F022.D\0625F022c.d	Vial:	21
Acqu Date:	06/26/2014 00:24	Quant Date:	06/26/2014 13:35
Run Type:	MB	Dilution:	1.0
Lab ID:	KWG1405574-7	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/11/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1405574	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1347312	Prep Date:	06/11/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.05 ^{-0.11c}	5.47 ^{-0.09c}	1982255	662282	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.05 ^{+0.13c}	5.47 ^{+0.08c}	1982255	662282	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.05 ^{+0.05c}	5.47 ^{+0.03c}	1982255	662282	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.05 ^{+0.13c}	5.47 ^{+0.08c}	1982255	662282	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.80 ^{+0.01}	7.26 ^{+0.01}	1702018	708979	71.94	81.12	81 OK
				%Recovery =		72 OK	81 OK	Limits = 20-106
1	Decachlorobiphenyl	18.50	17.06 ^{+0.01}	1581230	588256	76.06	79.41	79 OK
				%Recovery =		76 OK	79 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-BHC			0d	0	0.0000	0.0000	0.00033U	0.00033U	0.00033U
1	Hexachlorobenzene		8.27	0d	1049	0.0000	0.1040	0.00031U	0.00031U	0.00031U
1	beta-BHC	10.92 ^{+0.01}		5714	0	0.4510	0.0000	0.000902J	0.00083U	0.00083U
1	gamma-BHC (Lindane)			0d	0	0.0000	0.0000	0.00044U	0.00044U	0.00044U
1	delta-BHC			0	0	0.0000	0.0000	0.00057U	0.00057U	0.00057U
1	Heptachlor	11.52 ^{+0.01}	9.92	1408	6005	0.0520	0.6620	0.00036U	0.00132J	0.00036U
1	Aldrin			0d	0d	0.0000	0.0000	0.00040U	0.00040U	0.00040U
1	Isodrin			0d	0	0.0000	0.0000	0.00056U	0.00056U	0.00056U
1	Heptachlor Epoxide			0	0	0.0000	0.0000	0.00032U	0.00032U	0.00032U

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F022.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F022.D\0625F022c.d	Vial:	21
Acqu Date:	06/26/2014 00:24	Quant Date:	06/26/2014 13:35
Run Type:	MB	Dilution:	1.0
Lab ID:	KWG1405574-7	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

					Final Conc. Units: ug/L							
IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt		
1	gamma-Chlordane	13.30		2023	0d	0.0780	0.0000	0.00032U	0.00032U	0.00032U		
1	Endosulfan I	13.41	^{-0.01}	4663	0	0.2010	0.0000	0.00044U	0.00044U	0.00044U		
1	alpha-Chlordane			0d	0	0.0000	0.0000	0.0040U	0.0040U	0.0040U		
1	Dieldrin			0d	0	0.0000	0.0000	0.00035U	0.00035U	0.00035U		
1	4,4'-DDE			0	0d	0.0000	0.0000	0.00036U	0.00036U	0.00036U		
1	Endrin	14.26	^{+0.05c}	2443	0d	0.1130	0.0000	0.00068U	0.00068U	0.00068U		
1	Endosulfan II	14.66	^{+0.01}	7939	0d	0.3700	0.0000	0.000740J	0.00040U	0.00040U		
1	4,4'-DDD			0	0d	0.0000	0.0000	0.0015U	0.0015U	0.0015U		
1	Endrin Aldehyde		13.90	0	2854	0.0000	0.4950	0.00046U	0.000990J	0.00046U		
1	Endosulfan Sulfate			0	0d	0.0000	0.0000	0.00047U	0.00047U	0.00047U		
1	4,4'-DDT			0	0d	0.0000	0.0000	0.00058U	0.00058U	0.00058U		
1	Endrin Ketone			0	0d	0.0000	0.0000	0.00066U	0.00066U	0.00066U		
1	Methoxychlor	15.77	^{+0.03}	14.91	^{+0.02}	2348	9679	0.2440	2.84	0.00093U	0.00568J	0.00093U
1	2,4'-DDE			0d	0d	0.0000	0.0000	0.00050U	0.00050U	0.00050U		
1	2,4'-DDD			0d	0	0.0000	0.0000	0.00057U	0.00057U	0.00057U		
1	2,4'-DDT	14.26	^{-0.04c}	13.20	c	2443	5314	0.1560	0.9380	0.00059U	0.00188J	0.00059U
	Toxaphene			0	0	0.0000	0.0000	0.0510U	0.0510U	0.0510U		
2	Toxaphene {1}			0	0d	0.0000	0.0000	0.051U	0.051U			
2	Toxaphene {2}			0d	0d	0.0000	0.0000	0.051U	0.051U			
2	Toxaphene {3}			0	0d	0.0000	0.0000	0.051U	0.051U			
2	Toxaphene {4}			0	0d	0.0000	0.0000	0.051U	0.051U			
2	Toxaphene {5}			0	0d	0.0000	0.0000	0.051U	0.051U			
2	Toxaphene {6}			0	0d	0.0000	0.0000	0.051U	0.051U			
	Chlordane			0	0	0.8485	10.32	0.0220U	0.0220U	0.0220U		
3	Chlordane {1}		9.59	^{+0.01}	0d	1847	0.0000	6.79	0.022U	0.022U		
3	Chlordane {2}	11.52	^{-0.01}	9.92	^{-0.01}	1408	6005	1.05	13.86	0.022U	0.0277J	
3	Chlordane {3}			0d	0d	0.0000	0.0000	0.022U	0.022U			
3	Chlordane {4}	13.30	^{-0.01}	2023	0d	0.6520	0.0000	0.022U	0.022U			
3	Chlordane {5}			0d	0	0.0000	0.0000	0.022U	0.022U			
3	Chlordane {6}			0d	0	0.0000	0.0000	0.022U	0.022U			
4	Chlorpyrifos			0d	0d	0.0000	0.0000	0.00083U	0.00083U	0.00083U		
4	Oxychlordane	12.73	^{-0.02}	1328	0	0.0630	0.0000	0.0010U	0.0010U	0.0010U		
4	cis-Nonachlor		13.20	^{-0.02c}	0	5314	0.0000	0.5570	0.00060U	0.00111J	0.00060U	
4	trans-Nonachlor	13.48	^{+0.01}	4327	0d	0.1710	0.0000	0.00092U	0.00092U	0.00092U		
4	Mirex			0d	0d	0.0000	0.0000	0.00081U	0.00081U	0.00081U		
4	Hexachloroethane	4.04	3.44	2665	7344	0.0570	0.4780	0.0012U	0.0012U	0.0012U		
4	Hexachlorobutadiene	4.80	^{-0.01}	4.03	^{+0.04}	2960	736	0.0830	0.0600	0.0019U	0.0019U	0.0019U
4	Alachlor	10.77		1369	0	0.0000	0.0000					

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F022.D\ECD1A.CH Vial: 21
 Signal #2 : J:\GC23\DATA\062514\0625F022.D\ECD2B.CH
 Acq On : 26 Jun 2014 12:24 am Operator: SMURRAY
 Sample : KWG1405574-MB Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:06 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.05	5.47	1982255	662282	100.000	100.000
29) 1-Bromo-2-nitrob	6.05	5.47	1982255	662282	100.000	100.000
36) 1-Bromo-2-nitrob	6.05	5.47	1982255	662282	100.000	100.000
43) 1-Bromo-2-nitrob	6.05	5.47	1982255	662282	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.80	7.26	1702018	708979	71.937	81.122
28) s Decachlorobiphen	18.50	17.06	1581230	588256	76.055	79.407
Target Compounds						
4) Hexachlorobenzen	0.00	8.27	0	1049	N.D. d	0.104
5) beta-BHC	10.92	0.00	5714	0	0.451	N.D. #
8) Heptachlor	11.52	9.92	1408	6005	0.052	0.662 #
12) gamma-Chlordane	13.30	0.00	2023	0	0.078	N.D. d#
13) Endosulfan I	13.41	0.00	4663	0	0.201	N.D. #
17) Endrin	14.26f	0.00	2443	0	0.113	N.D. d#
18) Endosulfan II	14.66	0.00	7939	0	0.370	N.D. d#
20) Endrin Aldehyde	0.00	13.90	0	2854	N.D.	0.495 #
24) Methoxychlor	15.77	14.91	2348	9679	0.244	2.840 #
27) 2,4'-DDT	14.26f	13.20	2443	5314	0.156	0.938 #
37) Chlordane	0.00	9.59	0	1847	N.D. d	6.789
38) Chlordane {2}	11.52	9.92	1408	6005	1.045	13.856 #
40) Chlordane {4}	13.30	0.00	2023	0	0.652	N.D. d#
45) Oxychlordane	12.73	0.00	1328	0	0.063	N.D. #
46) cis-Nonachlor	0.00	13.20	0	5314	N.D.	0.557 #
47) trans-Nonachlor	13.48	0.00	4327	0	0.171	N.D. d#
49) HCE	4.04	3.44	2665	7344	0.057	0.478 #
50) HCBD	4.80	4.03f	2960	736	0.083	0.060 #

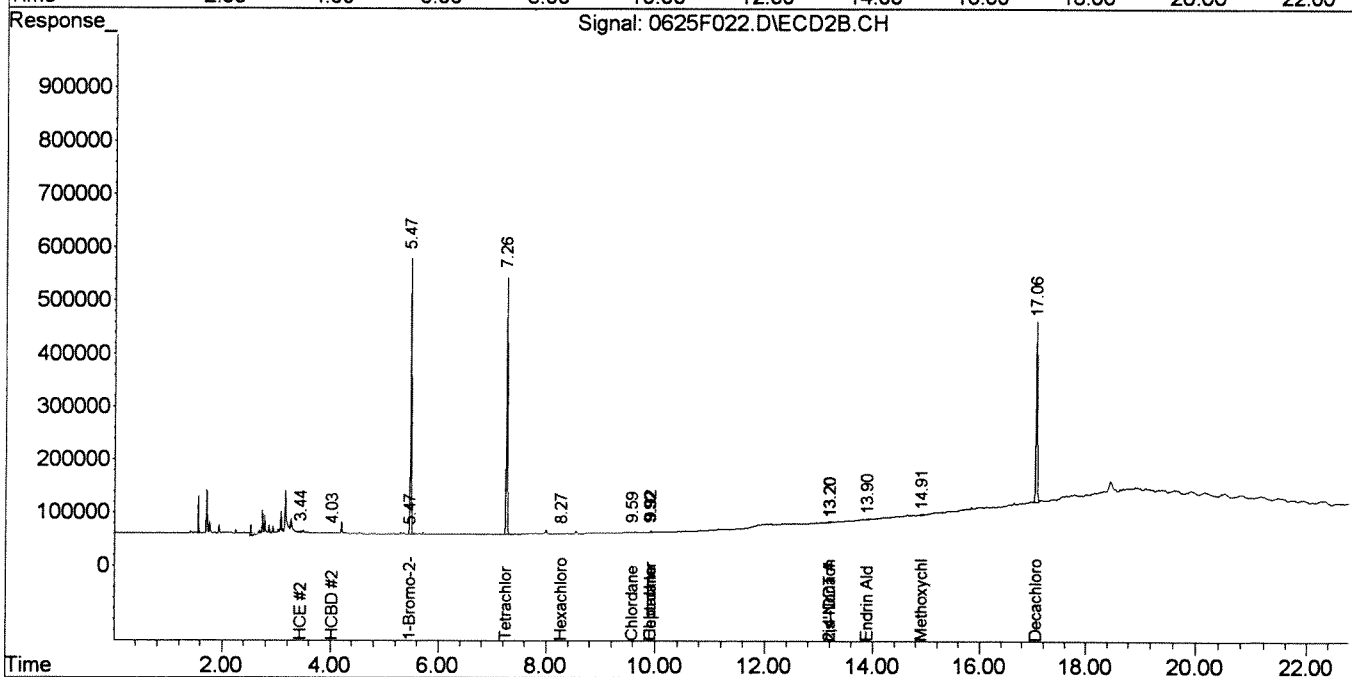
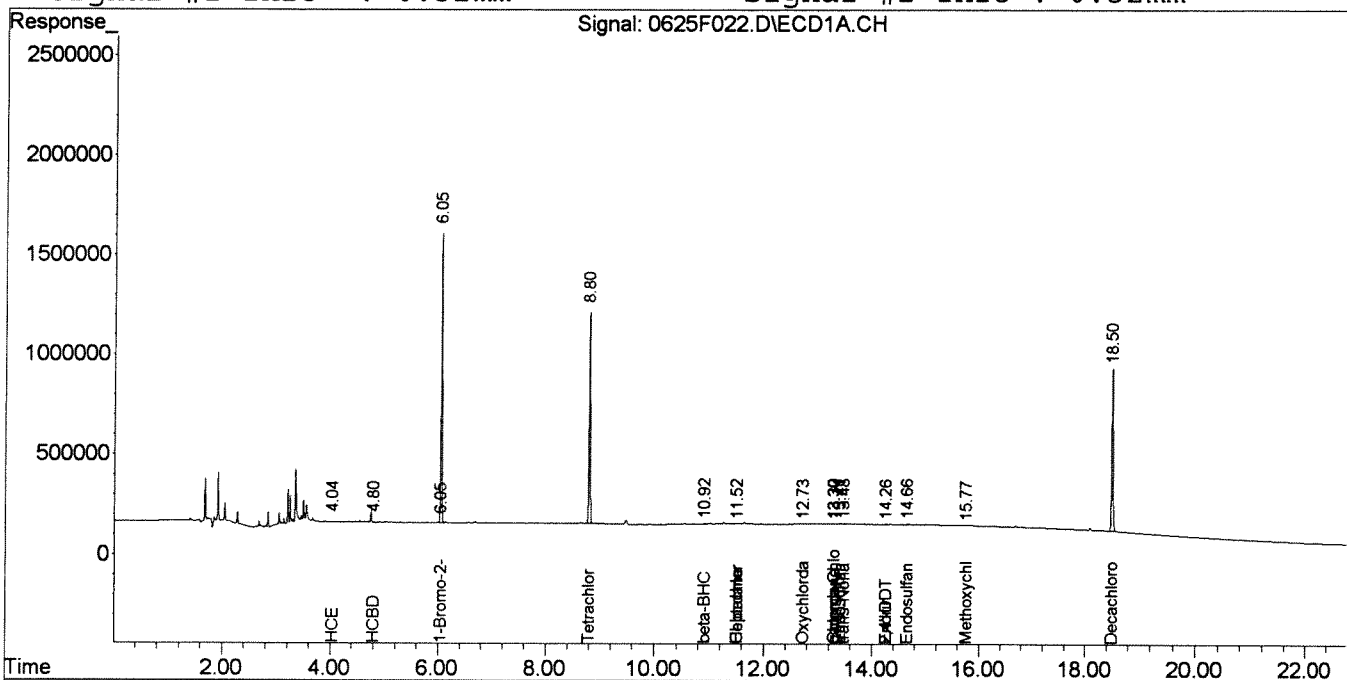
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\062514\0625F022.D\ECD1A.CH Vial: 21
 Signal #2 : J:\GC23\DATA\062514\0625F022.D\ECD2B.CH
 Acq On : 26 Jun 2014 12:24 am Operator: SMURRAY
 Sample : KWG1405574-MB Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 13:35 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

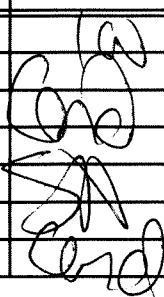
Data File: J:\GC23\DATA\062514\0625F047.D
Lab ID: KWG1406763-10
RunType: MB
Matrix: WATER

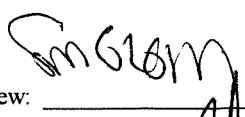

Date Acquired: 06/26/2014 12:44
Date Quantitated: 06/26/2014 14:20
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	
	Endosulfan I	13.43	NA	NA	
	1-Bromo-2-nitrobenzene {2}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.06	NA	NA	
	trans-Nonachlor	13.43	NA	NA	

Primary Review: 
 Secondary Review: 

Exception Report

Data File: J:\GC23\DATA\062514\0625F047.D\0625F047C.D
Lab ID: KWG1406763-10
RunType: MB
Matrix: WATER


Date Acquired: 06/26/2014 12:44
Date Quantitated: 06/26/2014 14:20
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.48	NA	NA	
	2,4'-DDT	13.2	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.48	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.48	NA	NA	
	1-Bromo-2-nitrobenzene {4}	5.48	NA	NA	
	cis-Nonachlor	13.2	NA	NA	

Primary Review:  _____
 Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F047.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F047.D\0625F047c.d	Vial:	40
Acqu Date:	06/26/2014 12:44	Quant Date:	06/26/2014 14:20
Run Type:	MB	Dilution:	1.0
Lab ID:	KWG1406763-10	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/25/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1351012	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10c}	5.48 ^{-0.07c}	2118258	840760	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.06 ^{+0.14c}	5.48 ^{+0.09c}	2118258	840760	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.06 ^{+0.06c}	5.48 ^{+0.04c}	2118258	840760	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.06 ^{+0.14c}	5.48 ^{+0.09c}	2118258	840760	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{-0.01}	7.27	1408186	597422	55.53	53.85	56 OK
						%Recovery =	56 OK 54 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{-0.01}	17.07 ^{-0.01}	1365145	561682	60.67	59.73	61 OK
						%Recovery =	61 OK 60 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC	9.65 ^{-0.01}		3413	0	0.1040	0.0000	0.00033U	0.00033U	0.00033U
1	Hexachlorobenzene		8.27 ^{-0.02}	0d	4733	0.0000	0.3690	0.00031U	0.000738J	0.00031U
1	beta-BHC	10.93 ^{-0.01}	9.74 ^{-0.05}	2994	945	0.2210	0.1540	0.00083U	0.00083U	0.00083U
1	gamma-BHC (Lindane)	10.29 ^{-0.05}		1442	0d	0.0480	0.0000	0.00044U	0.00044U	0.00044U
1	delta-BHC			0	0d	0.0000	0.0000	0.00057U	0.00057U	0.00057U
1	Heptachlor	11.52 ^{-0.02}	9.93 ^{-0.01}	3306	16396	0.1130	1.42	0.00036U	0.00285J	0.00036U
1	Aldrin		10.53	0	1133	0.0000	0.0890	0.00040U	0.00040U	0.00040U
1	Isodrin	12.57 ^{-0.04}		5770	0	0.2320	0.0000	0.00056U	0.00056U	0.00056U
1	Heptachlor Epoxide		11.62 ^{+0.01}	0d	1876	0.0000	0.1660	0.00032U	0.000332J	0.00032U

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F047.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F047.D\0625F047c.d	Vial:	40
Acqu Date:	06/26/2014 12:44	Quant Date:	06/26/2014 14:20
Run Type:	MB	Dilution:	1.0
Lab ID:	KWG1406763-10	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane	13.32	11.93 ^{-0.06}	7005	887	0.2520	0.0750	0.000504J	0.00032U	0.00032U
1	Endosulfan I	13.43 ^{-0.01 c}		3260	0	0.1320	0.0000	0.00044U	0.00044U	0.00044U
1	alpha-Chlordane	13.35 ^{-0.04}		1601	0	0.0580	0.0000	0.0040U	0.0040U	0.0040U
1	Dieldrin		12.64 ^{-0.01}	0	1290	0.0000	0.1120	0.00035U	0.00035U	0.00035U
1	4,4'-DDE	13.66 ^{-0.01}	12.49	1188	1056	0.0450	0.0920	0.00036U	0.00036U	0.00036U
1	Endrin			0d	0	0.0000	0.0000	0.00068U	0.00068U	0.00068U
1	Endosulfan II	14.67 ^{-0.01}	13.58 ^{+0.02}	14189	2300	0.6200	0.2420	0.00124J	0.000484J	0.000484JP
1	4,4'-DDD			0	0d	0.0000	0.0000	0.0015U	0.0015U	0.0015U
1	Endrin Aldehyde		13.90 ^{-0.02}	0	3495	0.0000	0.4770	0.00046U	0.000954J	0.00046U
1	Endosulfan Sulfate			0	0d	0.0000	0.0000	0.00047U	0.00047U	0.00047U
1	4,4'-DDT	15.00 ^{-0.01}	13.82 ^{+0.02}	2583	8715	0.1330	1.03	0.00058U	0.00206J	0.00058U
1	Endrin Ketone		15.14 ^{-0.06}	0d	2921	0.0000	0.2680	0.00066U	0.00066U	0.00066U
1	Methoxychlor			0d	0d	0.0000	0.0000	0.00093U	0.00093U	0.00093U
1	2,4'-DDE	13.08 ^{-0.01}		2046	0	0.1160	0.0000	0.00050U	0.00050U	0.00050U
1	2,4'-DDD			0	0	0.0000	0.0000	0.00057U	0.00057U	0.00057U
1	2,4'-DDT	14.27 ^{-0.05}	13.20 ^{-0.02 c}	3662	4067	0.2180	0.5650	0.00059U	0.00113J	0.00059U
	Toxaphene			0	0	0.0000	14.37	0.0510U	0.0510U	0.0510U
2	Toxaphene {1}		13.58 ^{-0.02}	0d	2300	0.0000	14.06	0.051U	0.051U	
2	Toxaphene {2}			0d	0	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {3}		13.94 ^{+0.01}	0	1277	0.0000	14.68	0.051U	0.051U	
2	Toxaphene {4}			0	0	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {5}			0d	0	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {6}			0d	0d	0.0000	0.0000	0.051U	0.051U	
	Chlordane			0	0	1.72	5.07	0.0220U	0.0220U	0.0220U
3	Chlordane {1}		9.59 ^{+0.02}	0d	1751	0.0000	5.07	0.022U	0.022U	
3	Chlordane {2}	11.52		3306	0d	2.30	0.0000	0.022U	0.022U	
3	Chlordane {3}			0	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {4}	13.32 ^{+0.02}		7005	0	2.11	0.0000	0.022U	0.022U	
3	Chlordane {5}	13.35 ^{-0.03}		1601	0	0.6540	0.0000	0.022U	0.022U	
3	Chlordane {6}	13.43 ^{-0.03}		3260	0	1.84	0.0000	0.022U	0.022U	
4	Chlorpyrifos	11.97 ^{-0.02}		7152	0	0.6260	0.0000	0.00125J	0.00083U	0.00083U
4	Oxychlordane		11.36 ^{-0.03}	0	1046	0.0000	0.1090	0.0010U	0.0010U	0.0010U
4	cis-Nonachlor		13.20 ^{-0.02 c}	0	4067	0.0000	0.3360	0.00060U	0.000672J	0.00060U
4	trans-Nonachlor	13.43 ^{-0.04 c}		3260	0	0.1200	0.0000	0.00092U	0.00092U	0.00092U
4	Mirex			0	0	0.0000	0.0000	0.00081U	0.00081U	0.00081U
4	Hexachloroethane	4.05 ^{+0.01}	3.49 ^{+0.05}	2652	4568	0.0530	0.2340	0.0012U	0.0012U	0.0012U
4	Hexachlorobutadiene	4.81	4.03 ^{+0.04}	3620	865	0.0950	0.0550	0.0019U	0.0019U	0.0019U
4	Alachlor	10.84		1059	0	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 D: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F047.D\ECD1A.CH Vial: 40
 Signal #2 : J:\GC23\DATA\062514\0625F047.D\ECD2B.CH
 Acq On : 26 Jun 2014 12:44 pm Operator: SMURRAY
 Sample : KWG1406763-LMB Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:19:32 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.48	2118258	840760	100.000	100.000
29) 1-Bromo-2-nitrob	6.06	5.48	2118258	840760	100.000	100.000
36) 1-Bromo-2-nitrob	6.06	5.48	2118258	840760	100.000	100.000
43) 1-Bromo-2-nitrob	6.06	5.48	2118258	840760	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.27	1408186	597422	55.534	53.847
28) s Decachlorobiphen	18.51	17.07	1365145	561682	60.670	59.725
Target Compounds						
3) alpha-BHC	9.65	0.00	3413	0	0.104	N.D. #
4) Hexachlorobenzen	0.00	8.27	0	4733	N.D. d	0.369
5) beta-BHC	10.93	9.74f	2994	945	0.221	0.154 #
6) gamma-BHC (Linda	10.29f	0.00	1442	0	0.048	N.D. d#
8) Heptachlor	11.52	9.93	3306	16396	0.113	1.424 #
9) Aldrin	0.00	10.53	0	1133	N.D.	0.089 #
10) Isodrin	12.57f	0.00	5770	0	0.232	N.D. #
11) Heptachlor Epoxi	0.00	11.62f	0	1876	N.D. d	0.166
12) gamma-Chlordane	13.32	11.93f	7005	887	0.252	0.075 #
13) Endosulfan I	13.43	0.00	3260	0	0.132	N.D. #
14) alpha-Chlordane	13.35f	0.00	1601	0	0.058	N.D. #
15) Dieldrin	0.00	12.64	0	1290	N.D.	0.112 #
16) 4,4'-DDE	13.66	12.49	1188	1056	0.045	0.092 #
18) Endosulfan II	14.67	13.58f	14189	2300	0.620	0.242 #
20) Endrin Aldehyde	0.00	13.90	0	3495	N.D.	0.477 #
22) 4,4'-DDT	15.00	13.82f	2583	8715	0.133	1.029 #
23) Endrin Ketone	0.00	15.14f	0	2921	N.D. d	0.268
25) 2,4'-DDE	13.08	0.00	2046	0	0.116	N.D. #
27) 2,4'-DDT	14.27f	13.20	3662	4067	0.218	0.565 #
30) Toxaphene	0.00	13.58	0	2300	N.D. d	14.061
32) Toxaphene {3}	0.00	13.94	0	1277	N.D.	14.682 #
37) Chlordane	0.00	9.59	0	1751	N.D. d	5.070
38) Chlordane {2}	11.52	0.00	3306	0	2.295	N.D. d#
40) Chlordane {4}	13.32	0.00	7005	0	2.114	N.D. #
41) Chlordane {5}	13.35	0.00	1601	0	0.654	N.D. #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC23\DATA\062514\0625F047.D\ECD1A.CH Vial: 40
 Signal #2 : J:\GC23\DATA\062514\0625F047.D\ECD2B.CH
 Acq On : 26 Jun 2014 12:44 pm Operator: SMURRAY
 Sample : KWG1406763-LMB Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:19:32 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

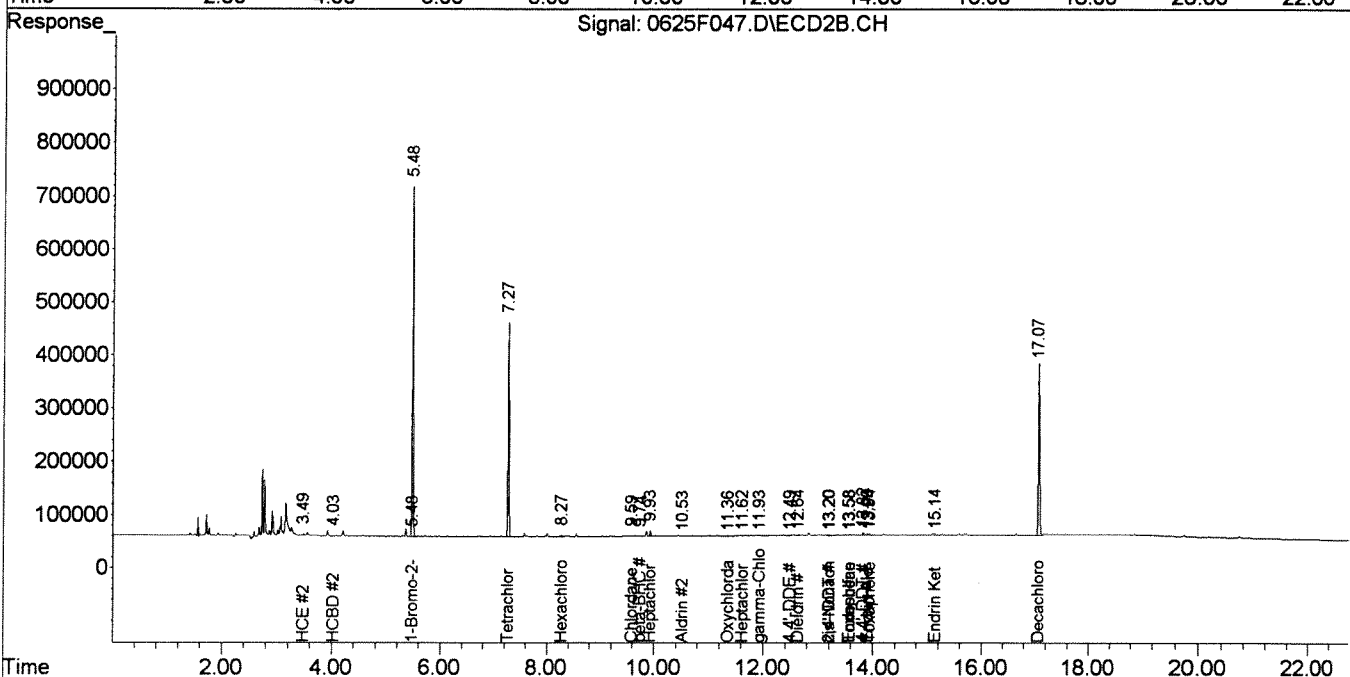
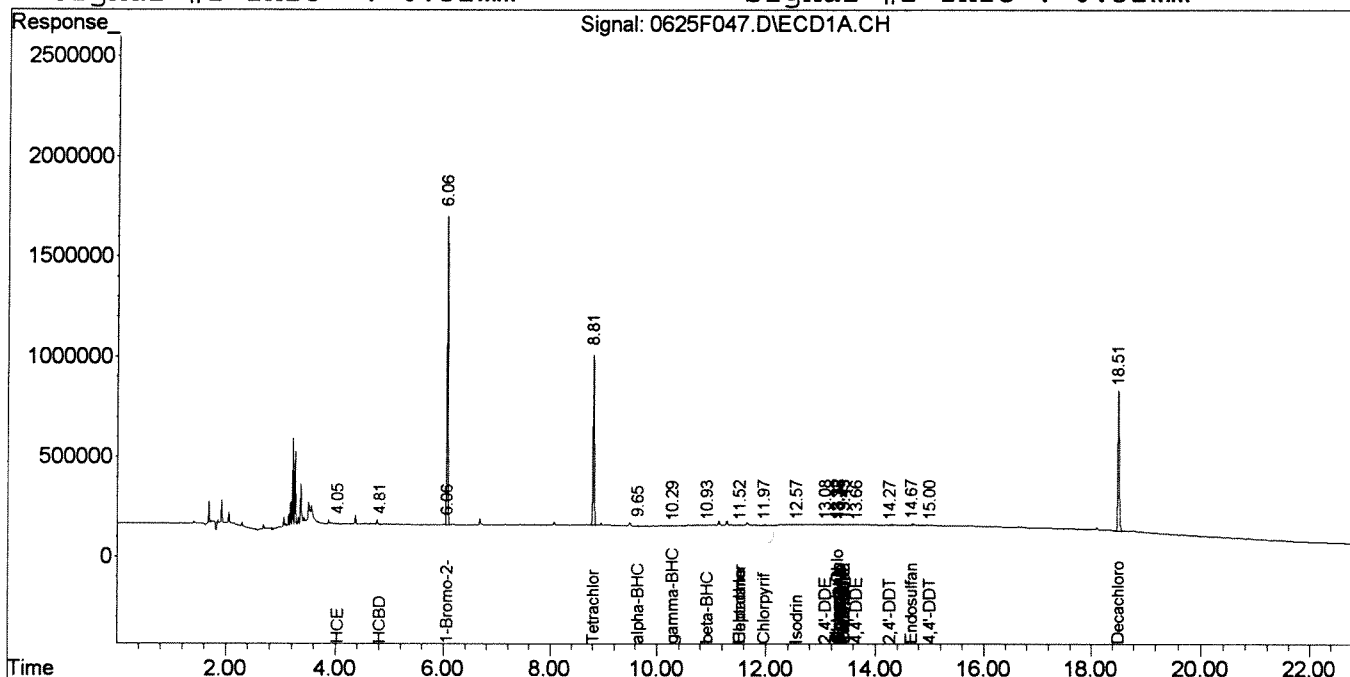
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
42)	Chlordane {6}	13.43	0.00	3260	0	1.835	N.D.	#
44)	Chlorpyrifos	11.97	0.00	7152	0	0.626	N.D.	#
45)	Oxychlordane	0.00	11.36f	0	1046	N.D.	0.109	#
46)	cis-Nonachlor	0.00	13.20	0	4067	N.D.	0.336	#
47)	trans-Nonachlor	13.43f	0.00	3260	0	0.120	N.D.	#
49)	HCE	4.05	3.49f	2652	4568	0.053	0.234	#
50)	HCBD	4.81	4.03f	3620	865	0.095	0.055	#

Signal #1 : J:\GC23\DATA\062514\0625F047.D\ECD1A.CH Vial: 40
 Signal #2 : J:\GC23\DATA\062514\0625F047.D\ECD2B.CH
 Acq On : 26 Jun 2014 12:44 pm Operator: SMURRAY
 Sample : KWG1406763-LMB Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:20 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

Data File: J:\GC23\DATA\062514\0625F030.D
Lab ID: KWG1406763-1 -- K1405818-002MS
RunType: MS
Matrix: WATER

Date Acquired: 06/26/2014 04:21
Date Quantitated: 06/26/2014 14:02
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	KS
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	1461.666666	17846.666666	NR
	1-Bromo-2-nitrobenzene {3}	0	2579.916666	30319.666666	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	GR
	4,4'-DDD	14.5	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.06	NA	NA	
	cis-Nonachlor	14.5	NA	NA	
Above Highest ICAL Level	cis-Nonachlor	126.27	NA	100	J

Primary Review: RM (6/26/14)

Secondary Review: W

Exception Report

Data File: J:\GC23\DATA\062514\0625F030.D\0625F030C.D
Lab ID: KWG1406763-1 -- K1405818-002MS
RunType: MS
Matrix: WATER

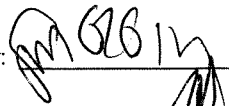
Date Acquired: 06/26/2014 04:21
Date Quantitated: 06/26/2014 14:02
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

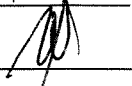
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Chlorpyrifos	26.0	NA	20	RB
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	NR
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.47	NA	NA	SN
	1-Bromo-2-nitrobenzene {4}	5.47	NA	NA	

Primary Review: 

Secondary Review: 

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F030.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F030.D\0625F030c.d	Vial:	23
Acqu Date:	06/26/2014 04:21	Quant Date:	06/26/2014 14:02
Run Type:	MS	Dilution:	1.0
Lab ID:	KWG1406763-1 -- K1405818-002MS		
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/25/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1351003	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10c}	5.47 ^{-0.09c}	2157118	835107	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.06 ^{+0.14c}	5.47 ^{+0.08c}	2157118	835107	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{-0.01}	7.26 ^{-0.01}	1540194	632360	59.70	57.38	60 OK
				%Recovery =		60 OK	57 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{-0.01}	17.07 ^{-0.01}	1432810	574099	62.64	61.46	63 OK
				%Recovery =		63 OK	61 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC	9.65 ^{-0.01}	8.50 ^{-0.01}	2303869	933373	69.24	70.30	0.140	0.142	0.140
1	Hexachlorobenzene	9.81 ^{-0.01}	8.28 ^{-0.01}	1773746	740845	60.54	58.12	0.122	0.117	0.117
1	beta-BHC	10.93 ^{-0.01}	9.78 ^{-0.01}	938448	403910	68.14	66.11	0.138	0.134	0.134
1	gamma-BHC (Lindane)	10.32 ^{-0.02}	9.24 ^{-0.02}	2140648	839662	69.88	68.52	0.141	0.138	0.138
1	delta-BHC	11.43 ^{-0.01}	10.31 ^{-0.01}	2183749	898663	73.36	74.69	0.148	0.151	0.148
1	Heptachlor	11.52 ^{-0.02}	9.93 ^{-0.01}	2079019	835325	69.91	73.02	0.141	0.148	0.141
1	Aldrin	12.07 ^{-0.01}	10.52 ^{-0.01}	1897746	831172	62.61	65.74	0.126	0.133	0.126
1	Isodrin	12.60 ^{-0.01}	11.32 ^{-0.01}	1678511	714581	66.18	68.13	0.134	0.138	0.134
1	Heptachlor Epoxide	12.79 ^{-0.01}	11.60 ^{-0.01}	1850052	783246	66.15	69.66	0.134	0.141	0.134

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F030.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F030.D\0625F030c.d	Vial:	23
Acqu Date:	06/26/2014 04:21	Quant Date:	06/26/2014 14:02
Run Type:	MS	Dilution:	1.0
Lab ID:	KWG1406763-1 -- K1405818-002MS	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane	13.31 ^{-0.01}	11.98 ^{-0.01}	1874859	785805	66.28	66.90	0.134	0.135	0.134
1	Endosulfan I	13.43 ^{-0.01}	12.19 ^{-0.01}	1282951	566048	50.87	55.68	0.103	0.112	0.103
1	alpha-Chlordane	13.38 ^{-0.01}	12.13	1818507	765776	65.17	66.56	0.132	0.134	0.132
1	Dieldrin	13.85 ^{-0.01}	12.64 ^{-0.01}	1871051	786071	69.26	68.55	0.140	0.138	0.138
1	4,4'-DDE	13.66 ^{-0.01}	12.49	1847675	796556	68.03	69.99	0.137	0.141	0.137
1	Endrin	14.22 ^{-0.01}	13.12 ^{-0.01}	1706388	732450	72.75	74.26	0.147	0.150	0.147
1	Endosulfan II	14.67 ^{-0.01}	13.55 ^{-0.01}	1386596	574737	59.46	60.91	0.120	0.123	0.120
1	4,4'-DDD	14.50 ^{-0.01}	13.37 ^{-0.01}	3489685	652002	157.37	73.38	0.318	0.148	0.148P
1	Endrin Aldehyde	14.85 ^{-0.01}	13.92	1149485	495964	75.16	68.16	0.152	0.138	0.138
1	Endosulfan Sulfate	15.32 ^{-0.01}	14.24 ^{-0.01}	1525564	646741	73.86	73.51	0.149	0.149	0.149
1	4,4'-DDT	15.00 ^{-0.01}	13.80	1605408	632408	81.43	75.14	0.165	0.152	0.152
1	Endrin Ketone	16.01 ^{-0.01}	15.19 ^{-0.01}	1894101	762813	72.67	70.35	0.147	0.142	0.142
1	Methoxychlor	15.75 ^{-0.01}	14.91	893254	343607	85.40	79.96	0.173	0.162	0.162
1	2,4'-DDE			0d	0d	0.0000	0.0000	0.00051U	0.00051U	NR
1	2,4'-DDD			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	2,4'-DDT			0d	0d	0.0000	0.0000	0.00060U	0.00060U	NR
	Toxaphene			0	0	0.0000	0.0000	0.0520U	0.0520U	NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {2}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {3}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {4}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {5}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {6}			0d	0d	0.0000	0.0000	0.052U	0.052U	
	Chlordane			0	0	0.0000	0.0000	0.0230U	0.0230U	NR
3	Chlordane {1}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {2}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {3}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {4}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {5}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {6}			0d	0d	0.0000	0.0000	0.023U	0.023U	
4	Chlorpyrifos	11.99	10.89	913533	390456	78.52	95.27 ^{pcv}	0.159	0.192	0.159
4	Oxychlordane	12.75	11.38 ^{-0.01}	1488502	635035	64.60	66.50	0.131	0.134	0.131
4	cis-Nonachlor	14.50	13.22 ^c	3489685	808145	126.27	67.21	0.255E	0.136	0.136P
4	trans-Nonachlor	13.47	12.02	1850741	768645	67.16	65.68	0.136	0.133	0.133
4	Mirex	16.86 ^{+0.01}	15.37	1352200	565474	65.56	68.38	0.132	0.138	0.132
4	Hexachloroethane	4.04	3.44	2268900	1007099	44.53	52.03	0.0900	0.105	0.0900
4	Hexachlorobutadiene	4.81	3.99	1629968	648731	41.82	41.82	0.0845	0.0845	0.0845
4	Alachlor	10.79	8.90	2160	15888	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F030.D\ECD1A.CH Vial: 23
 Signal #2 : J:\GC23\DATA\062514\0625F030.D\ECD2B.CH
 Acq On : 26 Jun 2014 4:21 am Operator: SMURRAY
 Sample : K1405818-002MS 81 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:22 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards							
1) i	1-Bromo-2-nitrob	6.06	5.47	2157118	835107	100.000	100.000
43)	1-Bromo-2-nitrob	6.06	5.47	2157118	835107	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachloro-m-xy	8.81	7.26	1540194	632360	59.700	57.381
28) s	Decachlorobiphen	18.51	17.07	1432810	574099	62.636	61.459
Target Compounds							
3)	alpha-BHC	9.65	8.50	2303869	933373	69.236	70.301
4)	Hexachlorobenzen	9.81	8.28	1773746	740845	60.539	58.119
5)	beta-BHC	10.93	9.78	938448	403910	68.141	66.114
6)	gamma-BHC (Linda	10.32	9.24	2140648	839662	69.881	68.522
7)	delta-BHC	11.43	10.31	2183749	898663	73.356	74.687
8)	Heptachlor	11.52	9.93	2079019	835325	69.913	73.019
9)	Aldrin	12.07	10.52	1897746	831172	62.614	65.739
10)	Isodrin	12.60	11.32	1678511	714581	66.182	68.127
11)	Heptachlor Epoxi	12.79	11.60	1850052	783246	66.149	69.662
12)	gamma-Chlordane	13.31	11.98	1874859	785805	66.284	66.902
13)	Endosulfan I	13.43	12.19	1282951	566048	50.872	55.683
14)	alpha-Chlordane	13.38	12.13	1818507	765776	65.169	66.557
15)	Dieldrin	13.85	12.64	1871051	786071	69.263	68.552
16)	4,4'-DDE	13.66	12.49	1847675	796556	68.030	69.987
17)	Endrin	14.22	13.12	1706388	732450	72.748	74.258
18)	Endosulfan II	14.67	13.55	1386596	574737	59.462	60.911
19)	4,4'-DDD	14.50	13.37	3489685	652002	157.374	73.376 #
20)	Endrin Aldehyde	14.85	13.92	1149485	495964	75.161	68.162
21)	Endosulfan Sulfa	15.32	14.24	1525564	646741	73.857	73.511
22)	4,4'-DDT	15.00	13.80	1605408	632408	81.432	75.141
23)	Endrin Ketone	16.01	15.19	1894101	762813	72.671	70.351
24)	Methoxychlor	15.75	14.91	893254	343607	85.396	79.955
44)	Chlorpyrifos	11.99	10.89	913533	390456	78.517	95.269
45)	Oxychlordane	12.75	11.38	1488502	635035	64.602	66.501
46)	cis-Nonachlor	14.50	13.22	3489685	808145	126.269	67.207 #
47)	trans-Nonachlor	13.47	12.02	1850741	768645	67.158	65.684
48)	Mirex	16.86	15.37	1352200	565474	65.563	68.375

Signal #1 : J:\GC23\DATA\062514\0625F030.D\ECD1A.CH Vial: 23
 Signal #2 : J:\GC23\DATA\062514\0625F030.D\ECD2B.CH
 Acq On : 26 Jun 2014 4:21 am Operator: SMURRAY
 Sample : K1405818-002MS 81 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:22 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

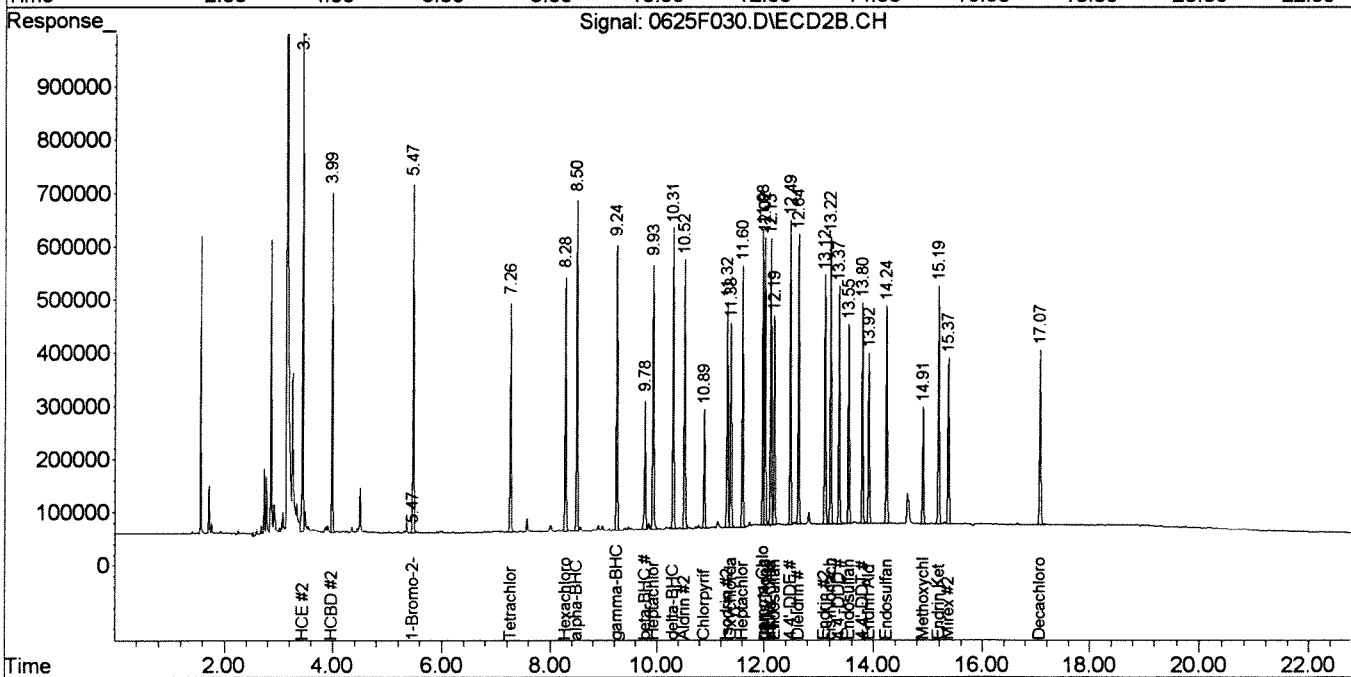
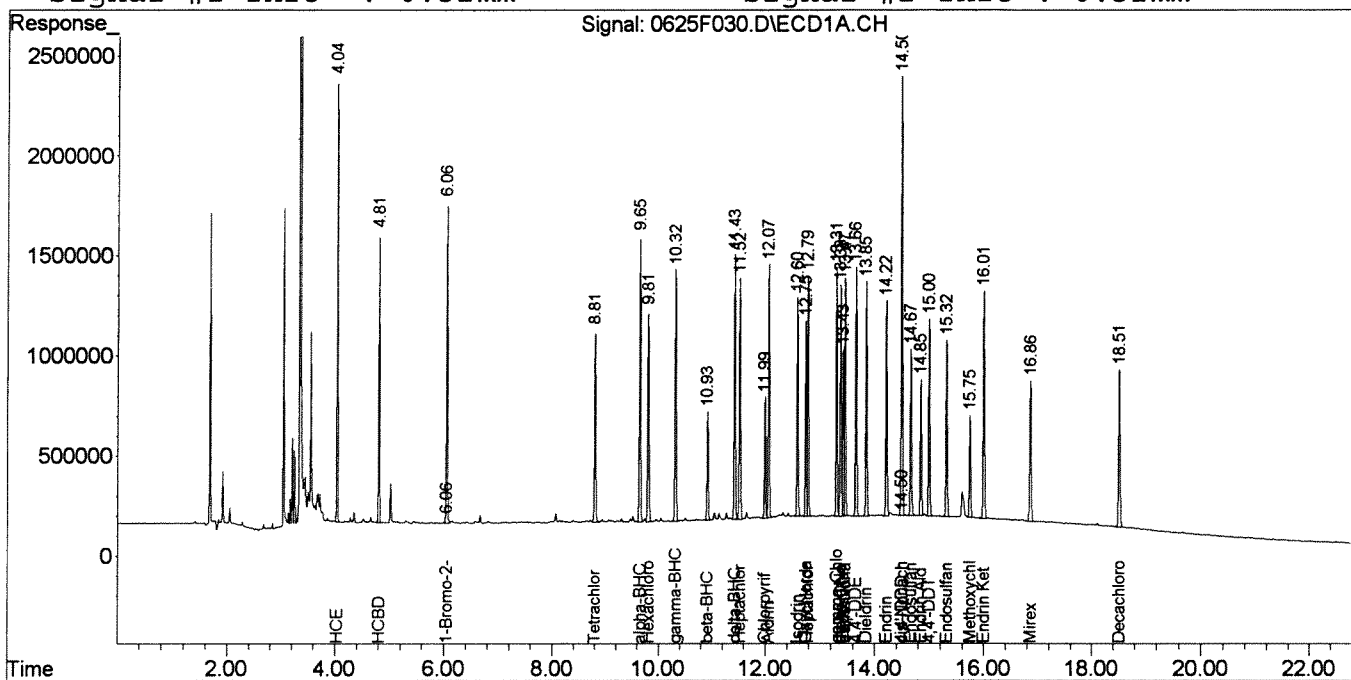
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
49)	HCE	4.04	3.44	2268900	1007099	44.529	52.026
50)	HCBD	4.81	3.99	1629968	648731	41.818	41.820

Signal #1 : J:\GC23\DATA\062514\0625F030.D\ECD1A.CH Vial: 23
 Signal #2 : J:\GC23\DATA\062514\0625F030.D\ECD2B.CH
 Acq On : 26 Jun 2014 4:21 am Operator: SMURRAY
 Sample : K1405818-002MS 81 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:02 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

Data File: J:\GC23\DATA\062514\0625F031.D
Lab ID: KWG1406763-2 -- K1405818-002DMS
RunType: DMS
Matrix: WATER

Date Acquired: 06/26/2014 04:51
Date Quantitated: 06/26/2014 14:02
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	461.666666	7846.666666	
	1-Bromo-2-nitrobenzene {3}	0	2579.916666	20319.666666	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	
	4,4'-DDD	14.5	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.06	NA	NA	
	cis-Nonachlor	14.5	NA	NA	
Above Highest ICAL Level	cis-Nonachlor	116.23	NA	100	

Primary Review:

Secondary Review:

Exception Report

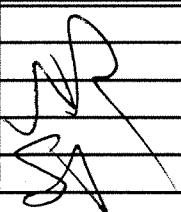
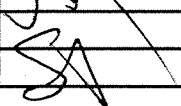
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RunType: DMS
Matrix: WATER

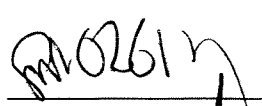
Date Acquired: 06/26/2014 04:51
Date Quantitated: 06/26/2014 14:02
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

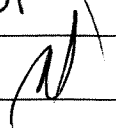
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Chlorpyrifos	26.0	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {4}	5.47	NA	NA	

Primary Review: 

Secondary Review: 

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F031.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F031.D\0625F031c.d	Vial:	24
Acqu Date:	06/26/2014 04:51	Quant Date:	06/26/2014 14:02
Run Type:	DMS	Dilution:	1.0
Lab ID:	KWG1406763-2 -- K1405818-002DMS		
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/25/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1351004	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10} c	5.47 ^{-0.09} c	2138406	841983	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.06 ^{+0.14} c	5.47 ^{+0.08} c	2138406	841983	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{-0.01}	7.26 ^{-0.01}	1521815	628653	59.50	56.58	60 OK
				%Recovery =		60 OK	57 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{-0.01}	17.06 ^{-0.02}	1423129	576041	62.76	61.16	63 OK
				%Recovery =		63 OK	61 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC	9.65 ^{-0.01}	8.50 ^{-0.01}	2152492	886116	65.25	66.20	0.132	0.134	0.132
1	Hexachlorobenzene	9.81 ^{-0.01}	8.28 ^{-0.01}	1638053	689728	56.27	53.67	0.114	0.108	0.108
1	beta-BHC	10.92 ^{-0.02}	9.78 ^{-0.01}	881235	382804	64.55	62.15	0.130	0.126	0.126
1	gamma-BHC (Lindane)	10.32 ^{-0.02}	9.24 ^{-0.02}	1993636	803793	65.65	65.06	0.133	0.131	0.131
1	delta-BHC	11.42 ^{-0.02}	10.31 ^{-0.01}	2022444	846201	68.53	69.75	0.138	0.141	0.138
1	Heptachlor	11.52 ^{-0.02}	9.93 ^{-0.01}	1924785	790490	65.29	68.54	0.132	0.138	0.132
1	Aldrin	12.06 ^{-0.02}	10.52 ^{-0.01}	1763886	782778	58.71	61.41	0.119	0.124	0.119
1	Isodrin	12.59 ^{-0.02}	11.31 ^{-0.02}	1552545	667796	61.75	63.15	0.125	0.128	0.125
1	Heptachlor Epoxide	12.78 ^{-0.02}	11.60 ^{-0.01}	1676804	731410	60.48	64.52	0.122	0.130	0.122

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F031.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F031.D\0625F031c.d	Vial:	24
Acqu Date:	06/26/2014 04:51	Quant Date:	06/26/2014 14:02
Run Type:	DMS	Dilution:	1.0
Lab ID:	KWG1406763-2 -- K1405818-002DMS	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

IS #	Parameter Name	RT		Resp		ug/L		ug/L		Rpt		
		#1	#2	#1	#2	#1	#2	#1	#2			
1	gamma-Chlordane	13.30	-0.02	11.97	-0.02	1731276	737114	61.74	62.24	0.125	0.126	0.125
1	Endosulfan I	13.43	-0.01	12.19	-0.01	1191354	528033	47.65	51.52	0.0963	0.104	0.0963
1	alpha-Chlordane	13.38	-0.01	12.12	-0.01	1674100	716713	60.52	61.78	0.122	0.125	0.122
1	Dieldrin	13.85	-0.01	12.63	-0.02	1710660	728013	63.88	62.97	0.129	0.127	0.127
1	4,4'-DDE	13.66	-0.01	12.48	-0.01	1704242	745227	63.30	64.94	0.128	0.131	0.128
1	Endrin	14.22	-0.01	13.11	-0.02	1563217	681035	67.23	68.48	0.136	0.138	0.136
1	Endosulfan II	14.66	-0.02	13.55	-0.01	1264998	535191	54.72	56.26	0.111	0.114	0.111
1	4,4'-DDD	14.50	-0.01 c	13.37	-0.01	3184283	618120	144.86	69.00	0.293	0.139	0.139P
1	Endrin Aldehyde	14.84	-0.02	13.91	-0.01	1062742	464746	70.10	63.35	0.142	0.128	0.128
1	Endosulfan Sulfate	15.32	-0.01	14.24	-0.01	1417800	604156	69.24	68.11	0.140	0.138	0.138
1	4,4'-DDT	15.00	-0.01	13.79	-0.01	1490710	599757	76.28	70.68	0.154	0.143	0.143
1	Endrin Ketone	16.00	-0.02	15.18	-0.02	1752519	716970	67.83	65.58	0.137	0.132	0.132
1	Methoxychlor	15.74	-0.02	14.90	-0.01	830468	322218	80.09	74.37	0.162	0.150	0.150
1	2,4'-DDE					0d	0d	0.0000	0.0000	0.00051U	0.00051U	NR
1	2,4'-DDD					0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	2,4'-DDT					0d	0d	0.0000	0.0000	0.00060U	0.00060U	NR
	Toxaphene					0	0	0.0000	0.0000	0.0520U	0.0520U	NR
2	Toxaphene {1}					0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {2}					0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {3}					0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {4}					0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {5}					0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {6}					0d	0d	0.0000	0.0000	0.052U	0.052U	
	Chlordane					0	0	0.0000	0.0000	0.0230U	0.0230U	NR
3	Chlordane {1}					0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {2}					0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {3}					0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {4}					0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {5}					0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {6}					0d	0d	0.0000	0.0000	0.023U	0.023U	
4	Chlorpyrifos	11.99		10.89		836354	361168	72.51	86.37 ^{OCV}	0.146	0.174	0.146
4	Oxychlordane	12.75		11.38	-0.01	1361273	585862	59.60	60.85	0.120	0.123	0.120
4	cis-Nonachlor	14.50	c	13.22		3184283	749294	116.23	61.80	0.235E	0.125	0.125P
4	trans-Nonachlor	13.46	-0.01	12.02		1677194	706889	61.39	59.91	0.124	0.121	0.121
4	Mirex	16.85		15.37		1248313	525337	61.06	62.52	0.123	0.126	0.123
4	Hexachloroethane	4.04		3.44		2229436	1154674	44.14	59.16	0.0892	0.120	0.0892
4	Hexachlorobutadiene	4.81		3.99		1576615	632491	40.80	40.44	0.0824	0.0817	0.0817
4	Alachlor	10.78		8.89		4707	19317	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F031.D\ECD1A.CH Vial: 24
 Signal #2 : J:\GC23\DATA\062514\0625F031.D\ECD2B.CH
 Acq On : 26 Jun 2014 4:51 am Operator: SMURRAY
 Sample : K1405818-002DMS 81 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:24 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.47	2138406	841983	100.000	100.000
43) 1-Bromo-2-nitrob	6.06	5.47	2138406	841983	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.26	1521815	628653	59.501	56.579
28) s Decachlorobiphen	18.51	17.06	1423129	576041	62.764	61.163
Target Compounds						
3) alpha-BHC	9.65	8.50	2152492	886116	65.253	66.196
4) Hexachlorobenzen	9.81	8.28	1638053	689728	56.273	53.667
5) beta-BHC	10.92	9.78	881235	382804	64.546	62.147
6) gamma-BHC (Linda	10.32	9.24	1993636	803793	65.652	65.059
7) delta-BHC	11.42	10.31	2022444	846201	68.532	69.753
8) Heptachlor	11.52	9.93	1924785	790490	65.293	68.535
9) Aldrin	12.06	10.52	1763886	782778	58.707	61.406
10) Isodrin	12.59	11.31	1552545	667796	61.751	63.147
11) Heptachlor Epoxi	12.78	11.60	1676804	731410	60.479	64.521
12) gamma-Chlordane	13.30	11.97	1731276	737114	61.743	62.244
13) Endosulfan I	13.43	12.19	1191354	528033	47.653	51.519
14) alpha-Chlordane	13.38	12.12	1674100	716713	60.519	61.784
15) Dieldrin	13.85	12.63	1710660	728013	63.880	62.970
16) 4,4'-DDE	13.66	12.48	1704242	745227	63.298	64.943
17) Endrin	14.22	13.11	1563217	681035	67.228	68.482
18) Endosulfan II	14.66	13.55	1264998	535191	54.722	56.257
19) 4,4'-DDD	14.50	13.37	3184283	618120	144.858	68.995 #
20) Endrin Aldehyde	14.84	13.91	1062742	464746	70.098	63.350
21) Endosulfan Sulfa	15.32	14.24	1417800	604156	69.240	68.110
22) 4,4'-DDT	15.00	13.79	1490710	599757	76.275	70.679
23) Endrin Ketone	16.00	15.18	1752519	716970	67.828	65.583
24) Methoxychlor	15.74	14.90	830468	322218	80.089	74.365
44) Chlorpyrifos	11.99	10.89	836354	361168	72.512	86.371
45) Oxychlordane	12.75	11.38	1361273	585862	59.597	60.851
46) cis-Nonachlor	14.50	13.22	3184283	749294	116.227	61.804 #
47) trans-Nonachlor	13.46	12.02	1677194	706889	61.393	59.913
48) Mirex	16.85	15.37	1248313	525337	61.055	62.518

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC23\DATA\062514\0625F031.D\ECD1A.CH Vial: 24
 Signal #2 : J:\GC23\DATA\062514\0625F031.D\ECD2B.CH
 Acq On : 26 Jun 2014 4:51 am Operator: SMURRAY
 Sample : K1405818-002DMS 81 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:24 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

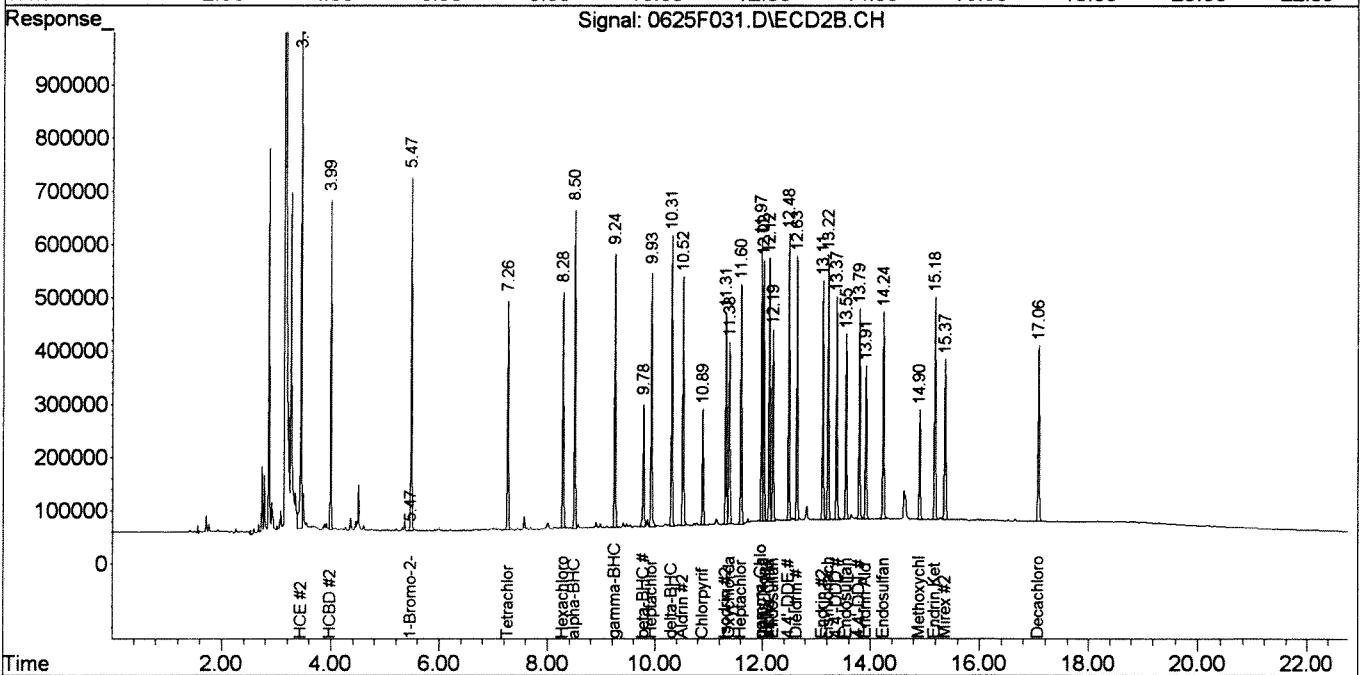
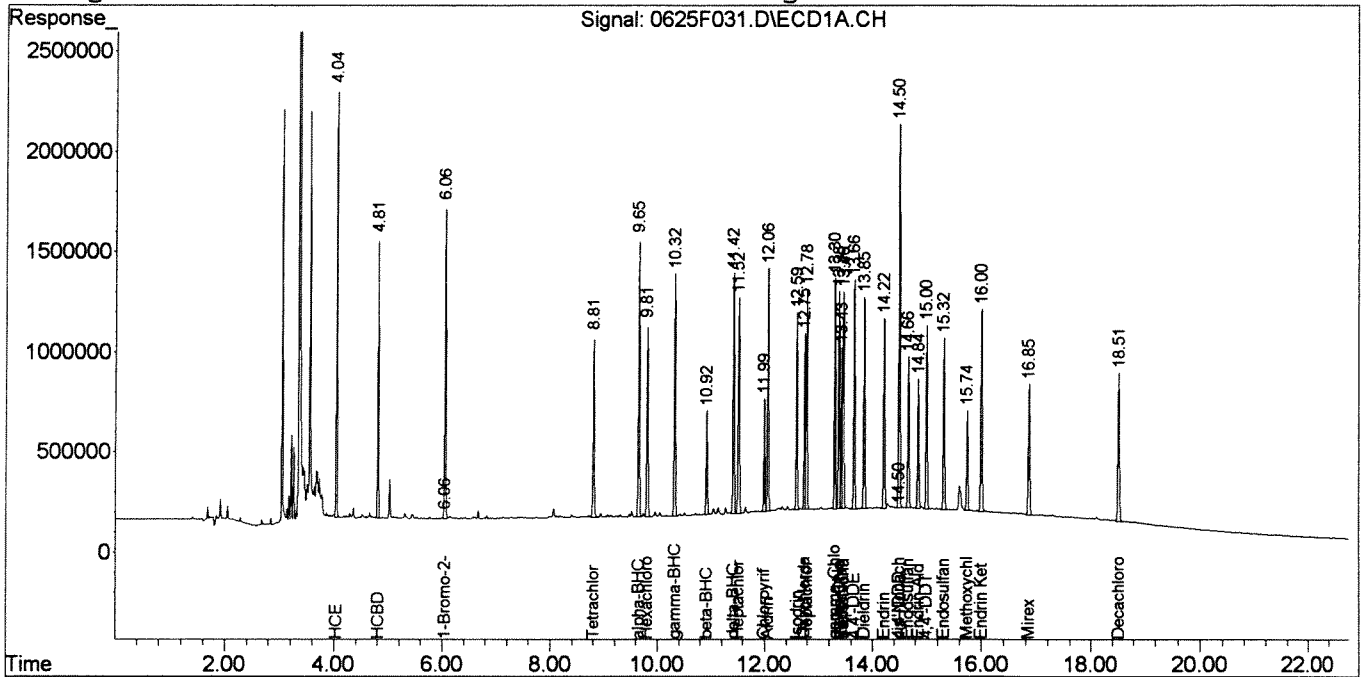
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
49)	HCE	4.04	3.44	2229436	1154674	44.137	59.162 #
50)	HCBD	4.81	3.99	1576615	632491	40.804	40.440

Signal #1 : J:\GC23\DATA\062514\0625F031.D\ECD1A.CH Vial: 24
 Signal #2 : J:\GC23\DATA\062514\0625F031.D\ECD2B.CH
 Acq On : 26 Jun 2014 4:51 am Operator: SMURRAY
 Sample : K1405818-002DMS 81 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:02 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

Data File: J:\GC23\DATA\062514\0625F032.D
Lab ID: KWG1406763-1 -- K1405818-002MS
RunType: MS
Matrix: WATER

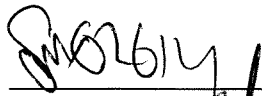
Date Acquired: 06/26/2014 05:20
Date Quantitated: 06/26/2014 14:04
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

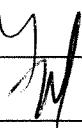
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	NR
Internal Standards	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	NR
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.05	NA	NA	SA
	1-Bromo-2-nitrobenzene {2}	6.05	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.05	NA	NA	

Primary Review: 

Secondary Review: 

Exception Report


Data File: J:\GC23\DATA\062514\0625F032.D\0625F032C.D
Lab ID: KWG1406763-1 -- K1405818-002MS
RunType: MS
Matrix: WATER

Date Acquired: 06/26/2014 05:20
Date Quantitated: 06/26/2014 14:04
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene {4}	0	5189.083333	24756.33333	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.47	NA	NA	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F032.D	Instrument:	GC23	
Data File #2:	J:\GC23\DATA\062514\0625F032.D\0625F032c.d	Vial:	25	
Acqu Date:	06/26/2014 05:20	Quant Date:	06/26/2014 14:04	
Run Type:	MS	Dilution:	1.0	
Lab ID:	KWG1406763-1 -- K1405818-002MS		Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS	

Bottle ID:		Tier:	WATER
Prod Code:	8081B Pest OC	Collect Date:	06/25/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1351003	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.05	5.47	2231470	885626	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.05	5.47	2231470	885626	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.05	5.47	2231470	885626	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt	
1	Tetrachloro-m-xylene	8.81	7.26	1579030	655426	59.16	56.08	NR	
						%Recovery =	59 OK	56 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51	17.06	1468933	595872	62.04	60.15	NR	
						%Recovery =	62 OK	60 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-BHC			0d	0d	0.0000	0.0000	0.00034U	0.00034U	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	0.00032U	0.00032U	0.00032U
1	beta-BHC			0d	0d	0.0000	0.0000	0.00084U	0.00084U	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	0.00045U	0.00045U	NR
1	delta-BHC			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	Heptachlor			0d	0d	0.0000	0.0000	0.00037U	0.00037U	NR
1	Aldrin			0d	0d	0.0000	0.0000	0.00041U	0.00041U	NR
1	Isodrin			0d	0d	0.0000	0.0000	0.00057U	0.00057U	0.00057U
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F032.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F032.D\0625F032c.d	Vial:	25
Acqu Date:	06/26/2014 05:20	Quant Date:	06/26/2014 14:04
Run Type:	MS	Dilution:	1.0
Lab ID:	KWG1406763-1 -- K1405818-002MS	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR
1	Endosulfan I			0d	0d	0.0000	0.0000	0.00045U	0.00045U	NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000	0.0041U	0.0041U	NR
1	Dieldrin			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	4,4'-DDE			0d	0d	0.0000	0.0000	0.00037U	0.00037U	NR
1	Endrin			0d	0d	0.0000	0.0000	0.00069U	0.00069U	NR
1	Endosulfan II			0d	0d	0.0000	0.0000	0.00041U	0.00041U	NR
1	4,4'-DDD			0d	0d	0.0000	0.0000	0.0016U	0.0016U	NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000	0.00047U	0.00047U	NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000	0.00048U	0.00048U	0.00048U
1	4,4'-DDT			0d	0d	0.0000	0.0000	0.00059U	0.00059U	NR
1	Endrin Ketone			0d	0d	0.0000	0.0000	0.00067U	0.00067U	NR
1	Methoxychlor			0d	0d	0.0000	0.0000	0.00094U	0.00094U	NR
1	2,4'-DDE			0d	0d	0.0000	0.0000	0.00051U	0.00051U	NR
1	2,4'-DDD			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	2,4'-DDT			0d	0d	0.0000	0.0000	0.00060U	0.00060U	NR
	Toxaphene			0	0	492.64	424.58	0.995	0.858	0.858
2	Toxaphene {1}	14.59 ^{-0.01}		57273m	0d	388.46	0.0000	0.785	0.052U	
2	Toxaphene {2}	14.66 ^{+0.01}	13.66	135302m	31418	622.26	462.63	1.26	0.935	
2	Toxaphene {3}		13.93	0d	45368	0.0000	495.19	0.052U	1.00	
2	Toxaphene {4}	14.85 ^{+0.01}	14.28	151501	40891	467.36	367.35	0.944	0.742	
2	Toxaphene {5}	15.19	14.67	155479	74408	470.29	358.87	0.950	0.725	
2	Toxaphene {6}	16.07	14.87	225224m	66302m	514.85	438.85	1.04	0.887	
	Chlordane			0	0	423.02	408.20	0.855	0.825	0.825
3	Chlordane {1}	11.09	9.57	438296	124557	481.36	342.35	0.972	0.692	
3	Chlordane {2}	11.52	9.93	660951	281270	435.56	485.34	0.880	0.980	
3	Chlordane {3}	12.11	11.98 ^{+0.01}	356109	505390	376.68	391.06	0.761	0.790	
3	Chlordane {4}	13.31 ^{+0.01}	12.02	1415812	376374	405.63	485.01	0.819	0.980	
3	Chlordane {5}	13.38	12.09 ^{+0.01}	905166	174823	350.99	402.55	0.709	0.813	
3	Chlordane {6}	13.46	12.13 ^{+0.01}	913296	361634	487.87	342.90	0.986	0.693	
4	Chlorpyrifos			0d	0d	0.0000	0.0000	0.00084U	0.00084U	0.00084U
4	Oxychlordane			0d	0d	0.0000	0.0000	0.0011U	0.0011U	NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000	0.00061U	0.00061U	NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000	0.00093U	0.00093U	NR
4	Mirex			0d	0d	0.0000	0.0000	0.00082U	0.00082U	NR
4	Hexachloroethane			0d	0d	0.0000	0.0000	0.0013U	0.0013U	0.0013U
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000	0.0020U	0.0020U	0.0020U
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F032.D\ECD1A.CH Vial: 25
 Signal #2 : J:\GC23\DATA\062514\0625F032.D\ECD2B.CH
 Acq On : 26 Jun 2014 5:20 am Operator: SMURRAY
 Sample : K1405818-002MS TC Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:26 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

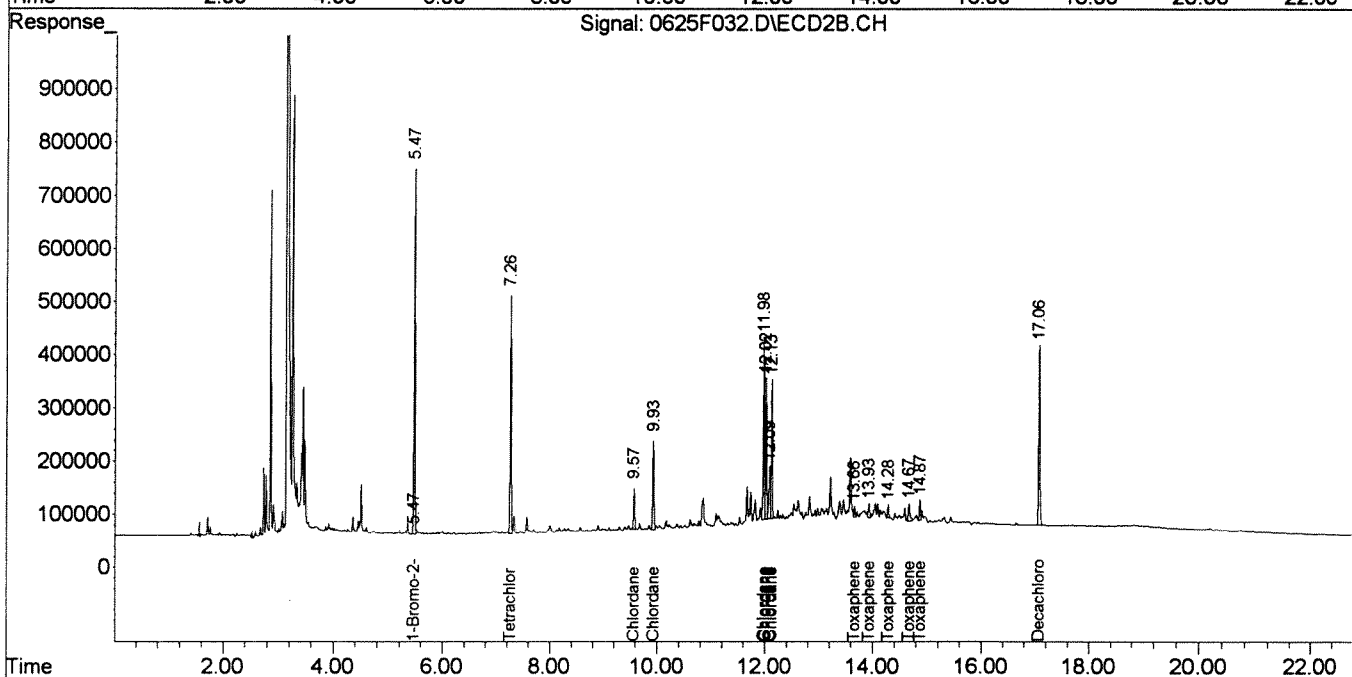
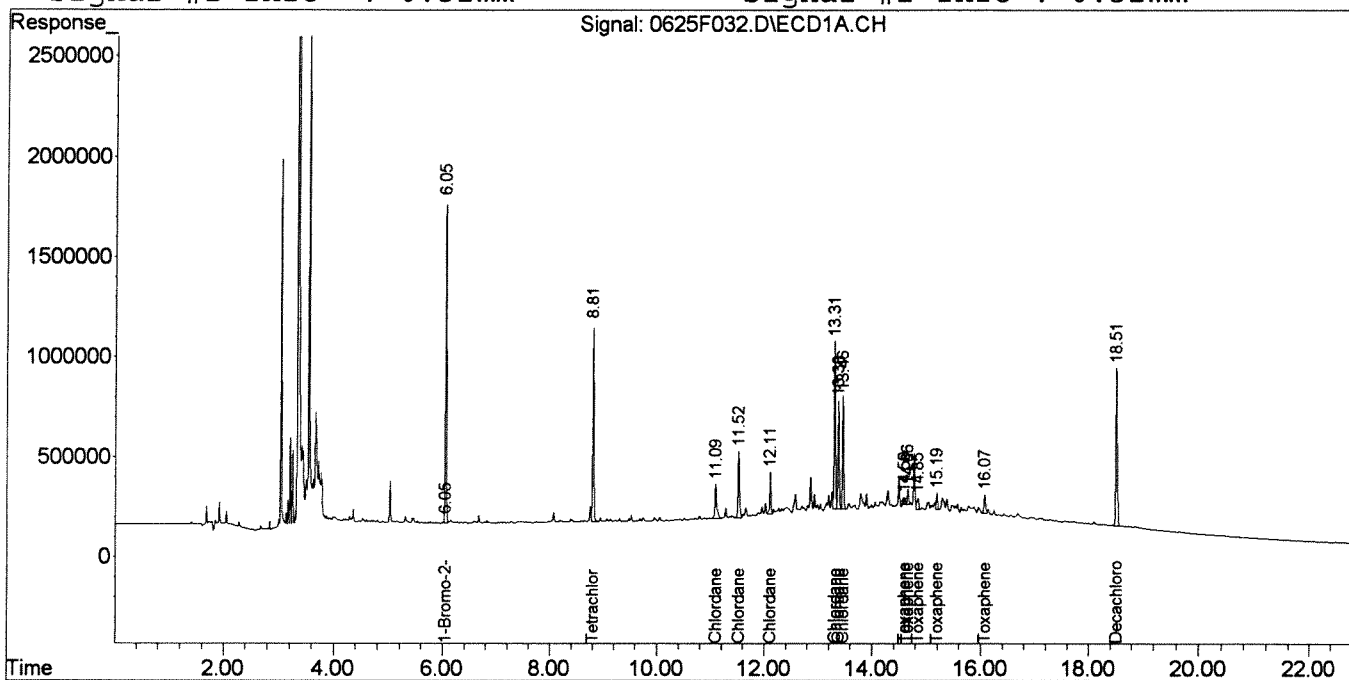
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.05	5.47	2231470	885626	100.000	100.000
29) 1-Bromo-2-nitrob	6.05	5.47	2231470	885626	100.000	100.000
36) 1-Bromo-2-nitrob	6.05	5.47	2231470	885626	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.26	1579030	655426	59.159	56.082
28) s Decachlorobiphen	18.51	17.06	1468933	595872	62.044	60.151
Target Compounds						
30) Toxaphene	14.59	0.00	57273	0	388.462m	N.D. d#
31) Toxaphene {2}	14.66	13.66	135302	31418	622.263m	462.628 #
32) Toxaphene {3}	0.00	13.93	0	45368	N.D. d	495.194
33) Toxaphene {4}	14.85	14.28	151501	40891	467.355	367.345
34) Toxaphene {5}	15.19	14.67	155479	74408	470.290	358.865
35) Toxaphene {6}	16.07	14.87	225224	66302	514.847m	438.848m
37) Chlordane	11.09	9.57	438296	124557	481.361	342.352 #
38) Chlordane {2}	11.52	9.93	660951	281270	435.558	485.337
39) Chlordane {3}	12.11	11.98	356109	505390	376.684	391.055
40) Chlordane {4}	13.31	12.02	1415812	376374	405.633	485.009
41) Chlordane {5}	13.38	12.09	905166	174823	350.987	402.551
42) Chlordane {6}	13.46	12.13	913296	361634	487.874	342.896 #

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\062514\0625F032.D\ECD1A.CH Vial: 25
 Signal #2 : J:\GC23\DATA\062514\0625F032.D\ECD2B.CH
 Acq On : 26 Jun 2014 5:20 am Operator: SMURRAY
 Sample : K1405818-002MS TC Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:04 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

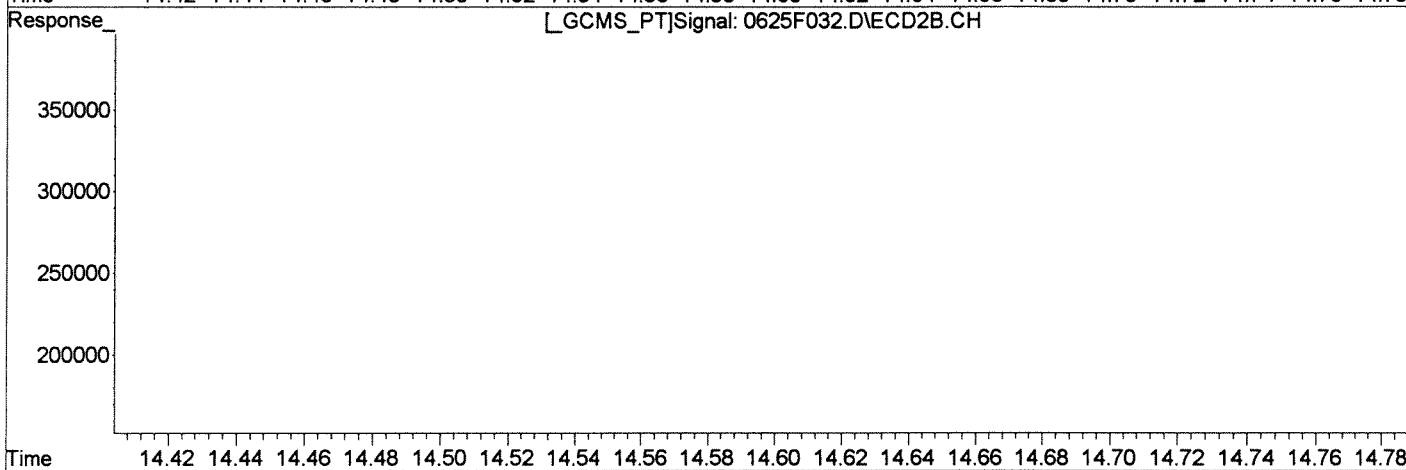
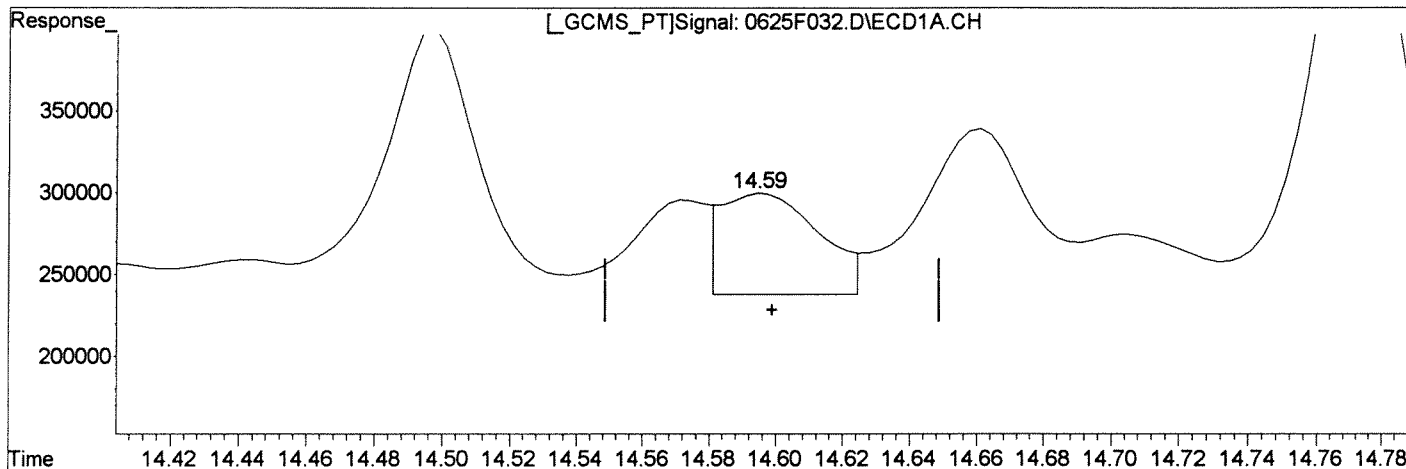
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F032.D\ECD1A.CH Vial: 25
Signal #2 : J:\GC23\DATA\062514\0625F032.D\ECD2B.CH
Acq On : 26 Jun 2014 5:20 am Operator: SMURRAY
Sample : K1405818-002MS TC Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F032.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(30) Toxaphene	832.834	122789
(30) Toxaphene #2	0.000	0

Manual Integration: Before 06/26/14

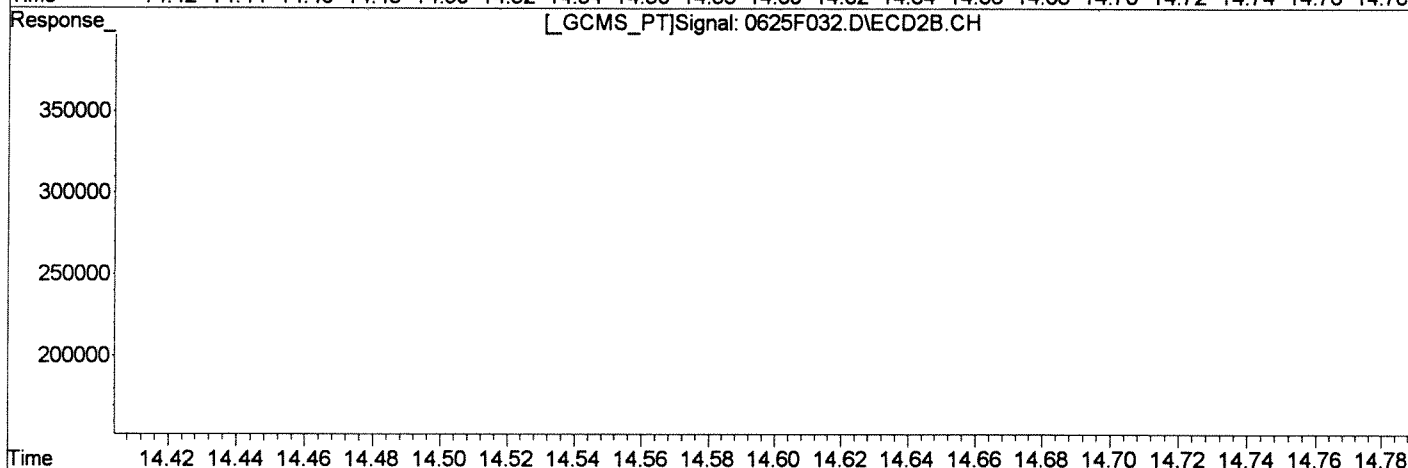
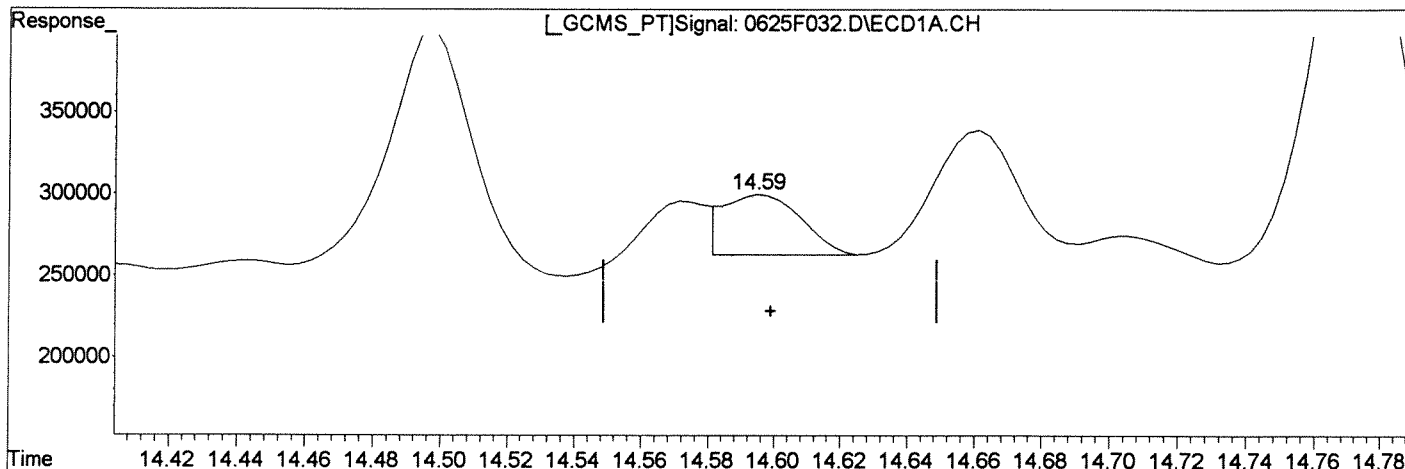
(+) = Expected Retention Time
0625F032.D GC23-031714-8081.M

Thu Jun 26 14:03:34 2014

Quantitation Report (Qedit)

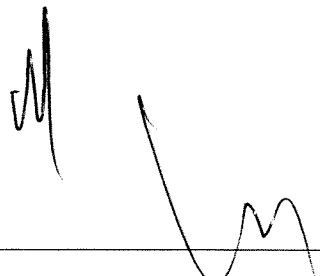
Signal #1 : J:\GC23\DATA\062514\0625F032.D\ECD1A.CH Vial: 25
 Signal #2 : J:\GC23\DATA\062514\0625F032.D\ECD2B.CH
 Acq On : 26 Jun 2014 5:20 am Operator: SMURRAY
 Sample : K1405818-002MS TC Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F032.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.59min 388.462ug/L m	After
response 57273	Baseline/Shoulder
	06/26/14
(30) Toxaphene #2	
0.00min 0.000ug/L d	
response 0	



(+) = Expected Retention Time

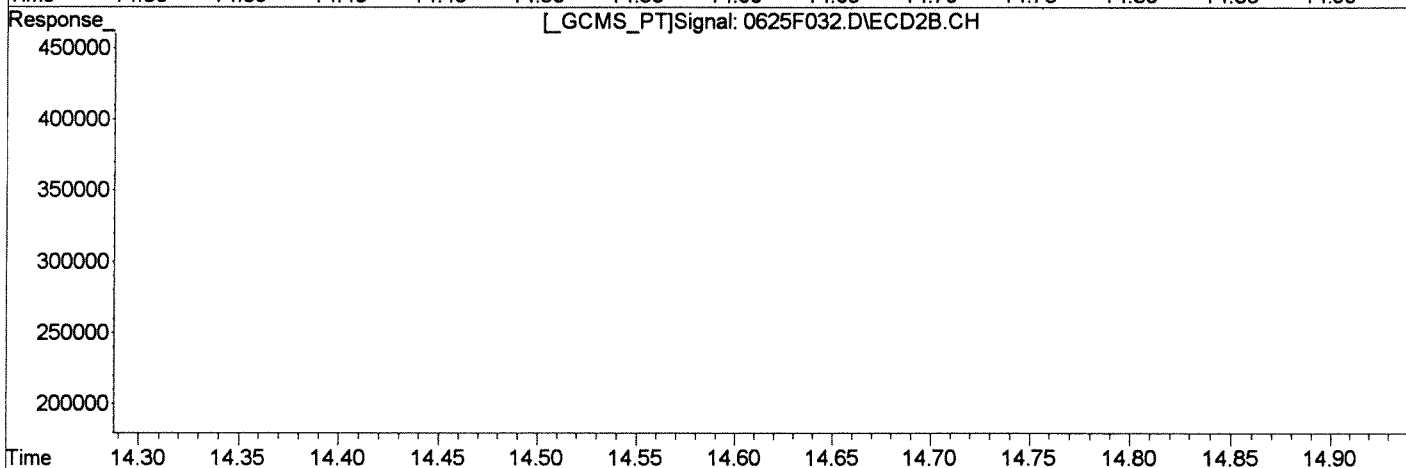
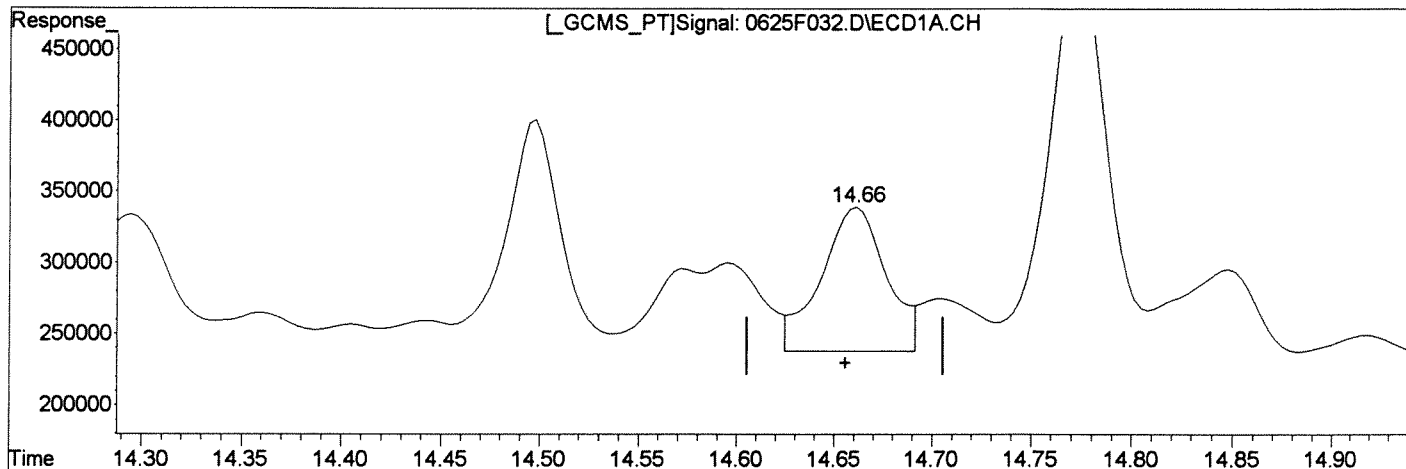
0625F032.D GC23-031714-8081.M

Thu Jun 26 14:03:43 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F032.D\ECD1A.CH Vial: 25
Signal #2 : J:\GC23\DATA\062514\0625F032.D\ECD2B.CH
Acq On : 26 Jun 2014 5:20 am Operator: SMURRAY
Sample : K1405818-002MS TC Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F032.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
14.66	1078.068	234410
13.66	462.628	31418

Manual Integration: Before 06/26/14

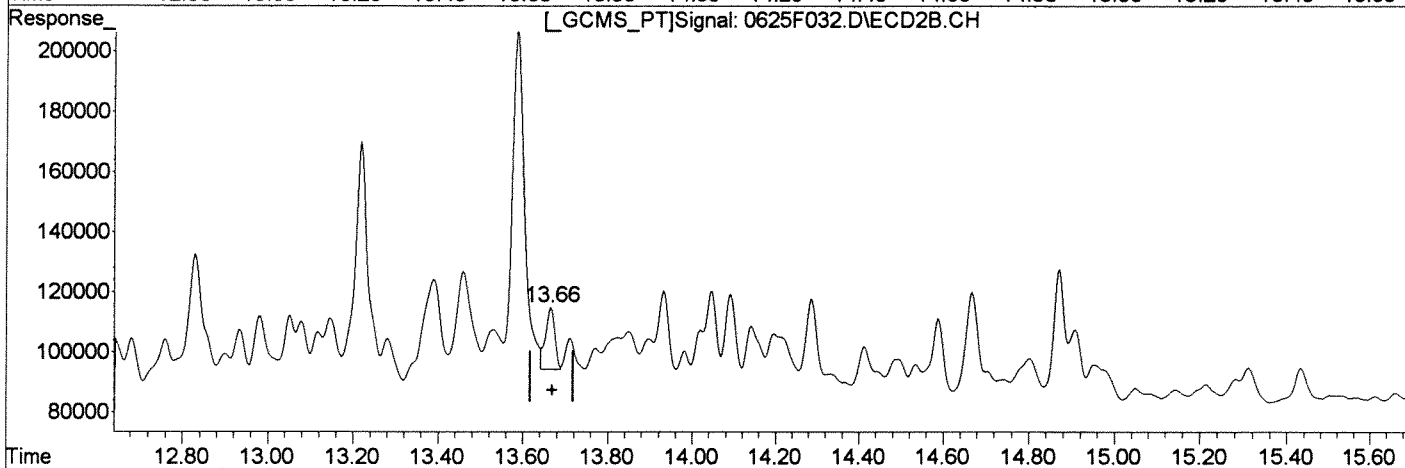
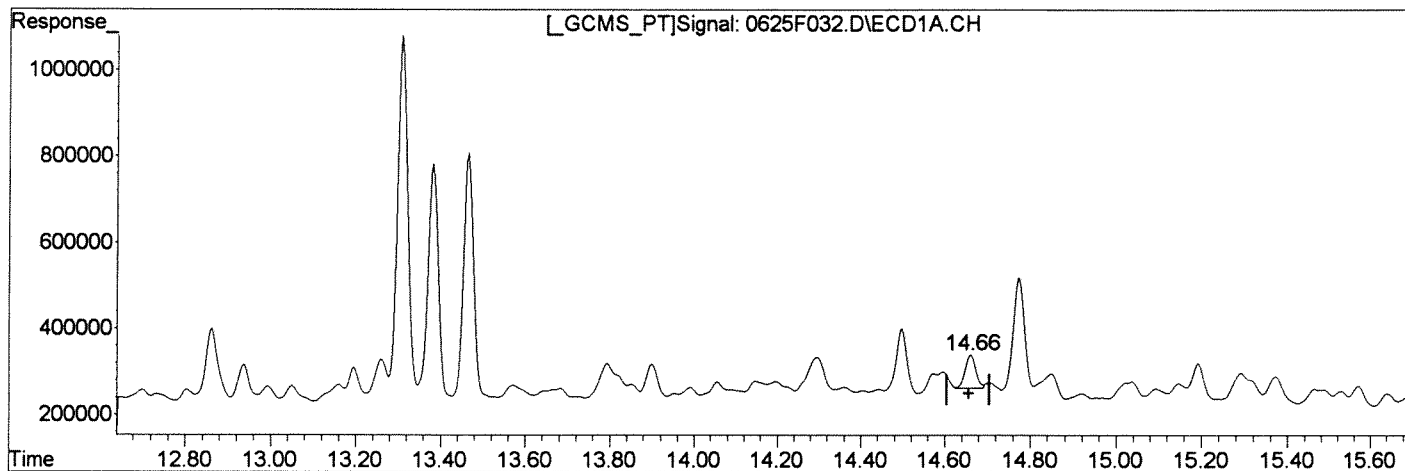
(+) = Expected Retention Time
0625F032.D GC23-031714-8081.M

Thu Jun 26 14:03:49 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F032.D\ECD1A.CH Vial: 25
Signal #2 : J:\GC23\DATA\062514\0625F032.D\ECD2B.CH
Acq On : 26 Jun 2014 5:20 am Operator: SMURRAY
Sample : K1405818-002MS TC Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F032.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
14.66	622.263	135302
13.66	462.628	31418

Manual Integration:
After
Baseline/Shoulder
06/26/14

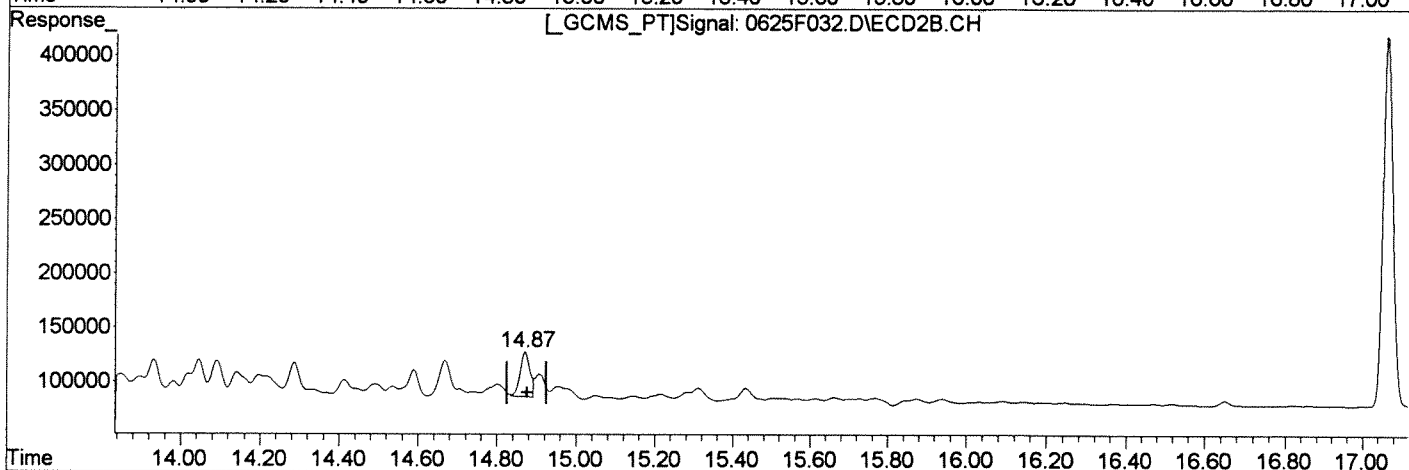
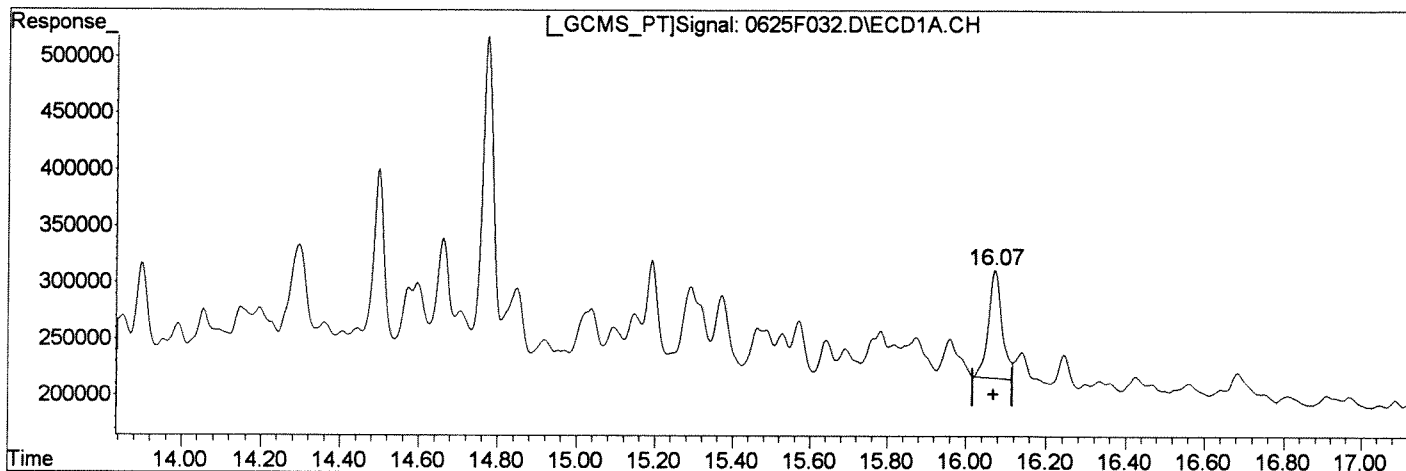
(+) = Expected Retention Time
0625F032.D GC23-031714-8081.M

Thu Jun 26 14:03:54 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F032.D\ECD1A.CH Vial: 25
 Signal #2 : J:\GC23\DATA\062514\0625F032.D\ECD2B.CH
 Acq On : 26 Jun 2014 5:20 am Operator: SMURRAY
 Sample : K1405818-002MS TC Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F032.D\ECD1A.CH

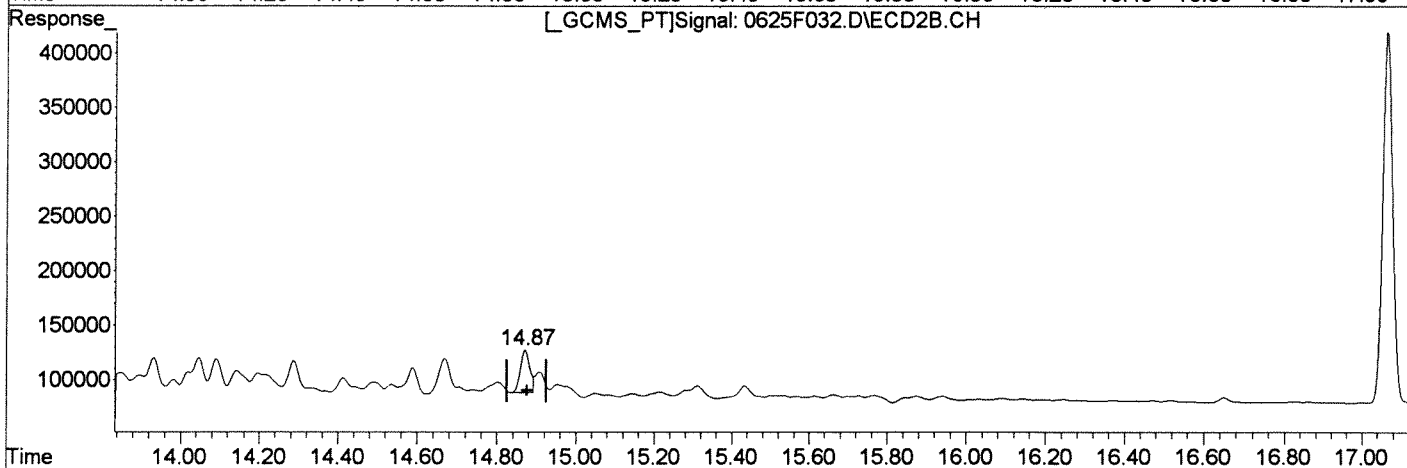
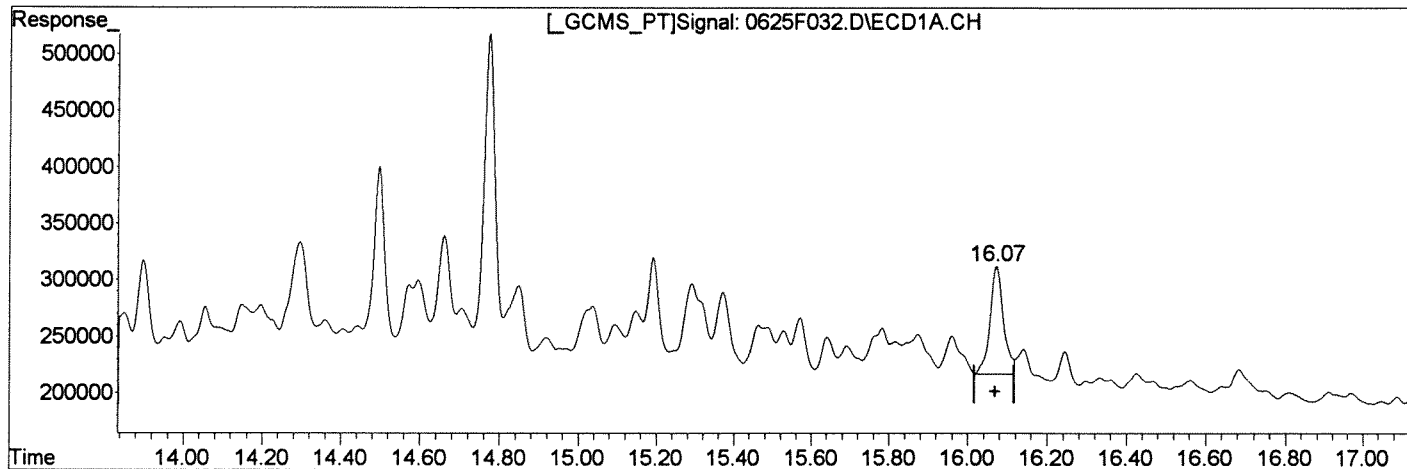
(35) Toxaphene (6)	Manual Integration:
16.07min 533.111ug/L	Before
response 233214	06/26/14
(35) Toxaphene (6) #2	
14.87min 476.708ug/L	
response 72022	

(+) = Expected Retention Time
 0625F032.D GC23-031714-8081.M Thu Jun 26 14:04:00 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F032.D\ECD1A.CH Vial: 25
Signal #2 : J:\GC23\DATA\062514\0625F032.D\ECD2B.CH
Acq On : 26 Jun 2014 5:20 am Operator: SMURRAY
Sample : K1405818-002MS TC Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F032.D\ECD1A.CH

(35) Toxaphene (6)	Manual Integration:
16.07min 514.847ug/L m	After
response 225224	Baseline/Shoulder
	06/26/14
(35) Toxaphene (6) #2	
14.87min 438.848ug/L m	
response 66302	

(+) = Expected Retention Time

0625F032.D GC23-031714-8081.M

Thu Jun 26 14:04:10 2014

Exception Report

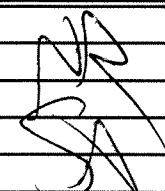
Data File: J:\GC23\DATA\062514\0625F033.D
Lab ID: KWG1406763-2 -- K1405818-002DMS
RunType: DMS
Matrix: WATER

Date Acquired: 06/26/2014 05:50
Date Quantitated: 06/26/2014 14:04
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {2}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.06	NA	NA	

Primary Review: _____

Secondary Review: _____

Exception Report

Data File: J:\GC23\DATA\062514\0625F033.D\0625F033C.D
Lab ID: KWG1406763-2 -- K1405818-002DMS
RunType: DMS
Matrix: WATER

Date Acquired: 06/26/2014 05:50
Date Quantitated: 06/26/2014 14:04
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene {4}	0	5189.083333	24756.33333	NR
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.48	NA	NA	SA
	1-Bromo-2-nitrobenzene {2}	5.48	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.48	NA	NA	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F033.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F033.D\0625F033c.d	Vial:	26
Acqu Date:	06/26/2014 05:50	Quant Date:	06/26/2014 14:04
Run Type:	DMS	Dilution:	1.0
Lab ID:	KWG1406763-2 -- K1405818-002DMS		
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/25/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1351004	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10c}	5.48 ^{-0.07c}	2161395	858369	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.06 ^{+0.14c}	5.48 ^{+0.09c}	2161395	858369	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.06 ^{+0.06c}	5.48 ^{+0.04c}	2161395	858369	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{-0.01}	7.26 ^{-0.01}	1482349	612641	57.32	54.09	NR
						%Recovery =	57 OK 54 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{-0.01}	17.07 ^{-0.01}	1357400	547242	59.04	57.00	NR
						%Recovery =	59 OK 57 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC			0d	0d	0.0000	0.0000	0.00034U	0.00034U	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	0.00032U	0.00032U	0.00032U
1	beta-BHC			0d	0d	0.0000	0.0000	0.00084U	0.00084U	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	0.00045U	0.00045U	NR
1	delta-BHC			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	Heptachlor			0d	0d	0.0000	0.0000	0.00037U	0.00037U	NR
1	Aldrin			0d	0d	0.0000	0.0000	0.00041U	0.00041U	NR
1	Isodrin			0d	0d	0.0000	0.0000	0.00057U	0.00057U	0.00057U
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F033.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F033.D\0625F033c.d	Vial:	26
Acqu Date:	06/26/2014 05:50	Quant Date:	06/26/2014 14:04
Run Type:	DMS	Dilution:	1.0
Lab ID:	KWG1406763-2 -- K1405818-002DMS	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR
1	Endosulfan I			0d	0d	0.0000	0.0000	0.00045U	0.00045U	NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000	0.0041U	0.0041U	NR
1	Dieldrin			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	4,4'-DDE			0d	0d	0.0000	0.0000	0.00037U	0.00037U	NR
1	Endrin			0d	0d	0.0000	0.0000	0.00069U	0.00069U	NR
1	Endosulfan II			0d	0d	0.0000	0.0000	0.00041U	0.00041U	NR
1	4,4'-DDD			0d	0d	0.0000	0.0000	0.0016U	0.0016U	NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000	0.00047U	0.00047U	NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000	0.00048U	0.00048U	0.00048U
1	4,4'-DDT			0d	0d	0.0000	0.0000	0.00059U	0.00059U	NR
1	Endrin Ketone			0d	0d	0.0000	0.0000	0.00067U	0.00067U	NR
1	Methoxychlor			0d	0d	0.0000	0.0000	0.00094U	0.00094U	NR
1	2,4'-DDE			0d	0d	0.0000	0.0000	0.00051U	0.00051U	NR
1	2,4'-DDD			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	2,4'-DDT			0d	0d	0.0000	0.0000	0.00060U	0.00060U	NR
	Toxaphene			0	0	473.16	381.73	0.956	0.771	0.771
2	Toxaphene {1}	14.60		50141	0d	351.11	0.0000	0.709	0.052U	
2	Toxaphene {2}	14.66 ^{+0.01}	13.67 ^{+0.01}	128104	24920m	608.26	378.60	1.23	0.765	
2	Toxaphene {3}		13.94 ^{+0.01}	0d	39433m	0.0000	444.08	0.052U	0.897	
2	Toxaphene {4}	14.85 ^{+0.01}	14.29 ^{+0.01}	142256	34459m	453.06	319.39	0.915	0.645	
2	Toxaphene {5}	15.19	14.67	143924	67829	449.45	337.52	0.908	0.682	
2	Toxaphene {6}	16.07	14.87	213524	62825	503.93	429.04	1.02	0.867	
	Chlordane			0	0	388.26	381.13	0.784	0.770	0.770
3	Chlordane {1}	11.10 ^{+0.01}	9.57	378904	111311	427.95	315.66	0.865	0.638	
3	Chlordane {2}	11.52	9.93	592650	254197	403.21	452.55	0.815	0.914	
3	Chlordane {3}	12.11	11.98 ^{+0.01}	319875	451810	347.95	360.70	0.703	0.729	
3	Chlordane {4}	13.31 ^{+0.01}	12.02	1257709	339284	372.02	451.10	0.752	0.911	
3	Chlordane {5}	13.38	12.09 ^{+0.01}	817186	164879	327.15	391.71	0.661	0.791	
3	Chlordane {6}	13.47 ^{+0.01}	12.13 ^{+0.01}	818213	322067	451.25	315.08	0.912	0.637	
4	Chlorpyrifos			0d	0d	0.0000	0.0000	0.00084U	0.00084U	0.00084U
4	Oxychlordane			0d	0d	0.0000	0.0000	0.0011U	0.0011U	NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000	0.00061U	0.00061U	NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000	0.00093U	0.00093U	NR
4	Mirex			0d	0d	0.0000	0.0000	0.00082U	0.00082U	NR
4	Hexachloroethane			0d	0d	0.0000	0.0000	0.0013U	0.0013U	0.0013U
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000	0.0020U	0.0020U	0.0020U
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F033.D\ECD1A.CH Vial: 26
 Signal #2 : J:\GC23\DATA\062514\0625F033.D\ECD2B.CH
 Acq On : 26 Jun 2014 5:50 am Operator: SMURRAY
 Sample : K1405818-002DMSTC Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:28 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

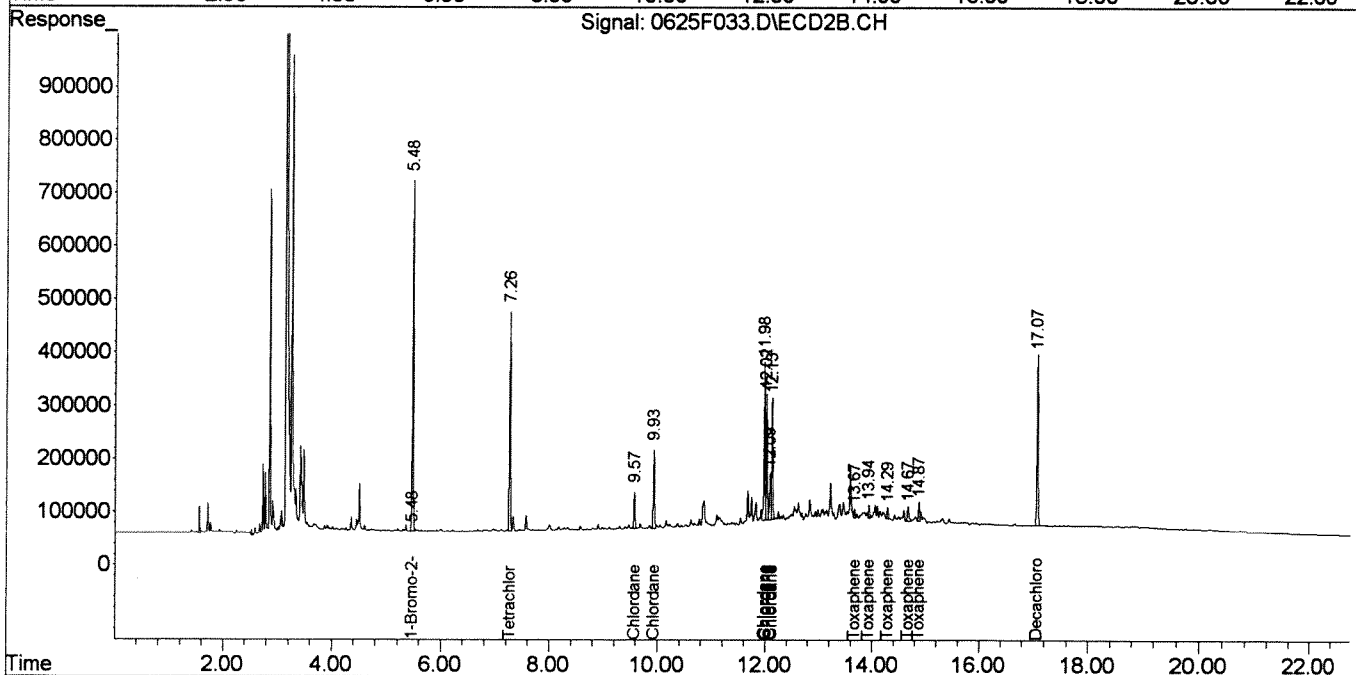
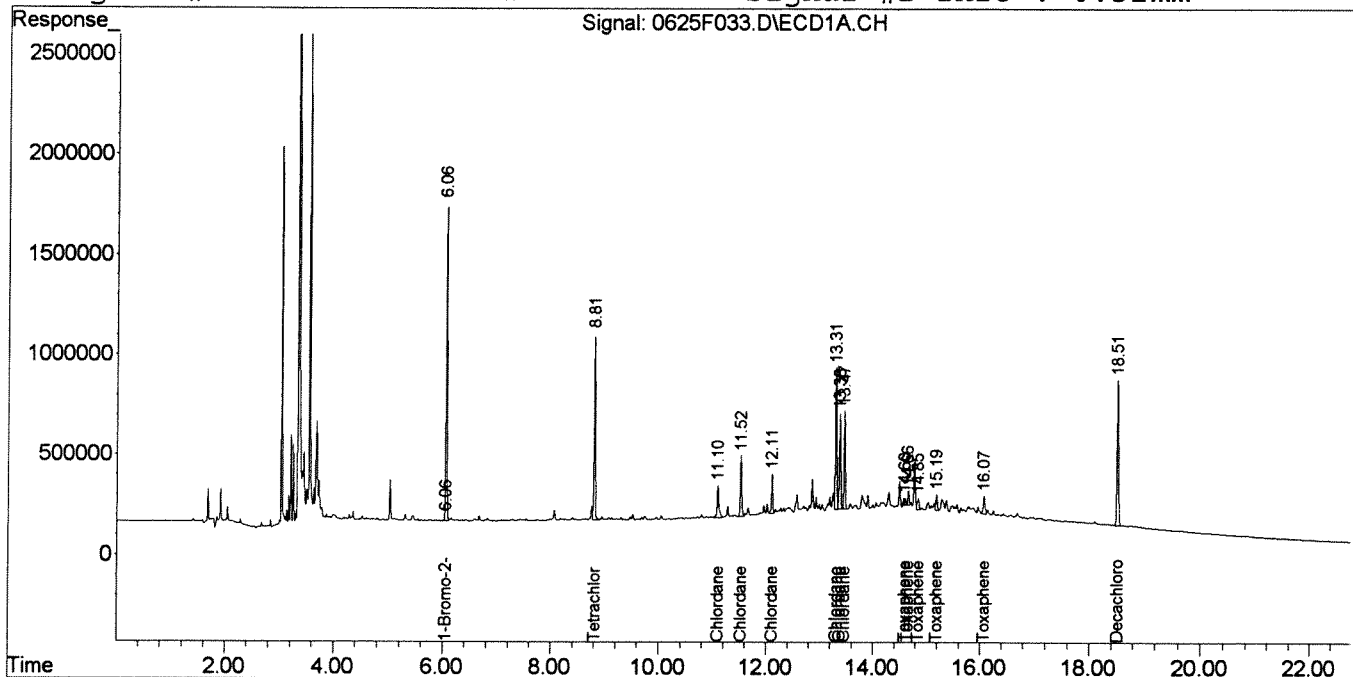
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.48	2161395	858369	100.000	100.000
29) 1-Bromo-2-nitrob	6.06	5.48	2161395	858369	100.000	100.000
36) 1-Bromo-2-nitrob	6.06	5.48	2161395	858369	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.26	1482349	612641	57.315	54.086
28) s Decachlorobiphen	18.51	17.07	1357400	547242	59.038	56.996
Target Compounds						
30) Toxaphene	14.60	0.00	50141	0	351.114	N.D. d#
31) Toxaphene {2}	14.66	13.67	128104	24920	608.260	378.598m#
32) Toxaphene {3}	0.00	13.94	0	39433	N.D. d	444.080m
33) Toxaphene {4}	14.85	14.29	142256	34459	453.063	319.393m#
34) Toxaphene {5}	15.19	14.67	143924	67829	449.453	337.523
35) Toxaphene {6}	16.07	14.87	213524	62825	503.926	429.038
37) Chlordane	11.10	9.57	378904	111311	427.952	315.660 #
38) Chlordane {2}	11.52	9.93	592650	254197	403.211	452.550
39) Chlordane {3}	12.11	11.98	319875	451810	347.954	360.697
40) Chlordane {4}	13.31	12.02	1257709	339284	372.019	451.097
41) Chlordane {5}	13.38	12.09	817186	164879	327.145	391.710
42) Chlordane {6}	13.47	12.13	818213	322067	451.252	315.076 #

Signal #1 : J:\GC23\DATA\062514\0625F033.D\ECD1A.CH Vial: 26
 Signal #2 : J:\GC23\DATA\062514\0625F033.D\ECD2B.CH
 Acq On : 26 Jun 2014 5:50 am Operator: SMURRAY
 Sample : K1405818-002DMSTC Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:04 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

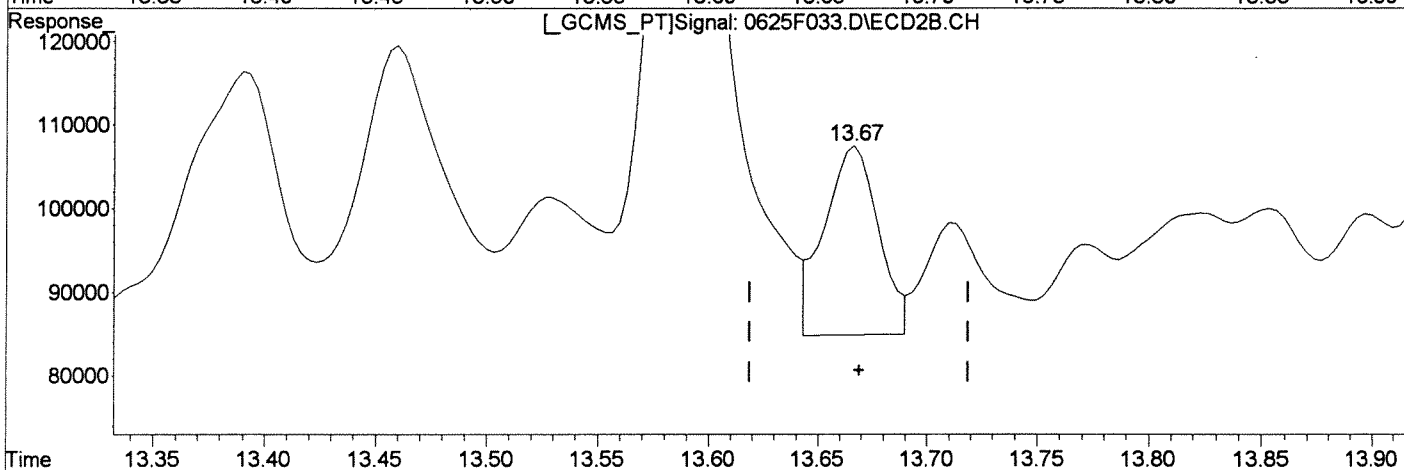
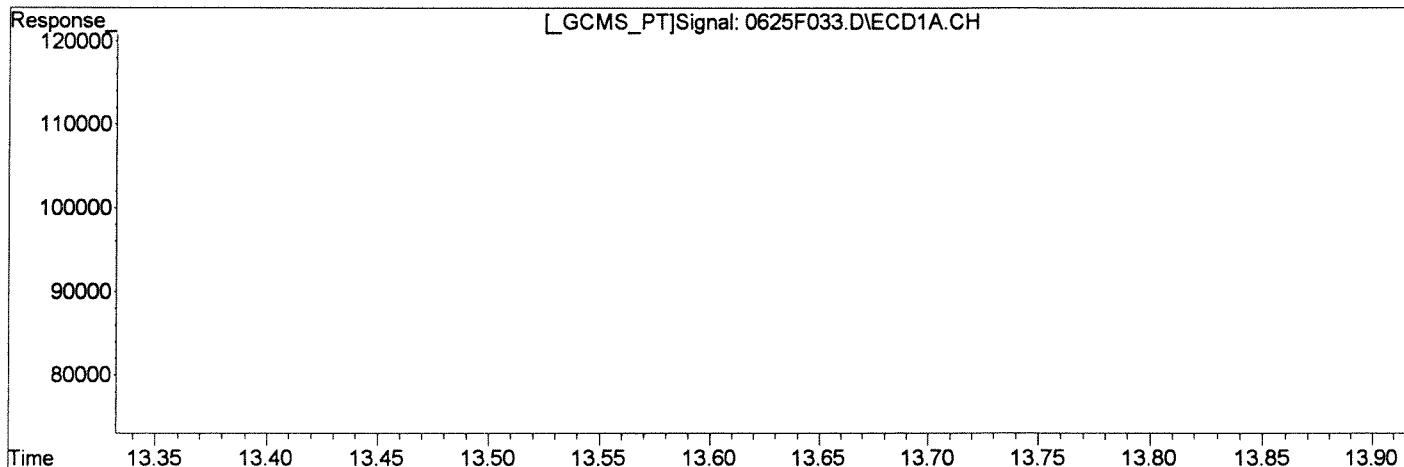
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F033.D\ECD1A.CH Vial: 26
Signal #2 : J:\GC23\DATA\062514\0625F033.D\ECD2B.CH
Acq On : 26 Jun 2014 5:50 am Operator: SMURRAY
Sample : K1405818-002DMSTC Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F033.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
14.66	608.260	128104
13.67	587.966	38701

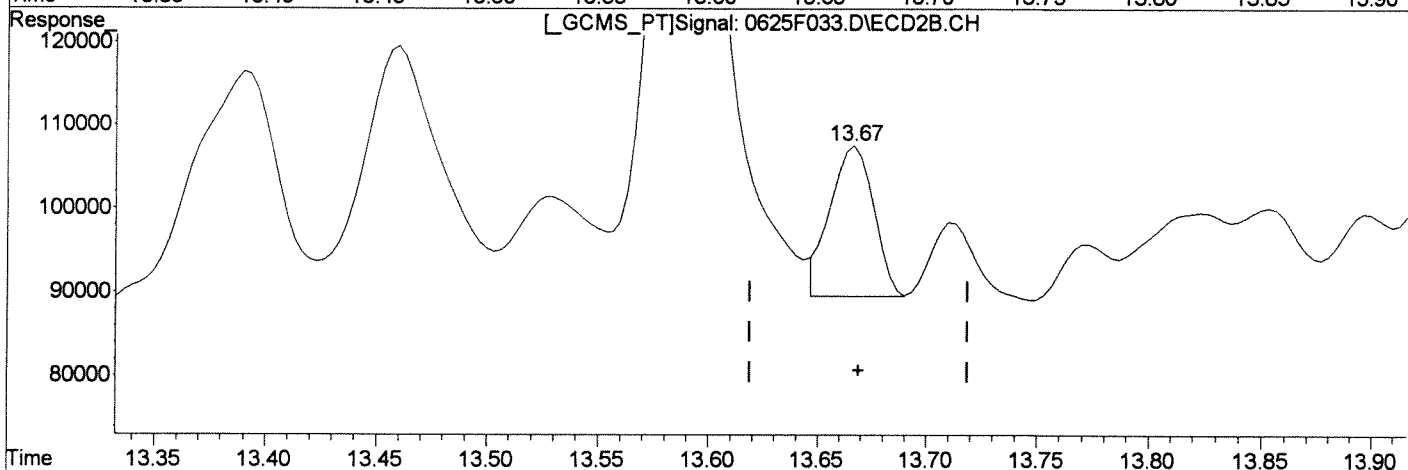
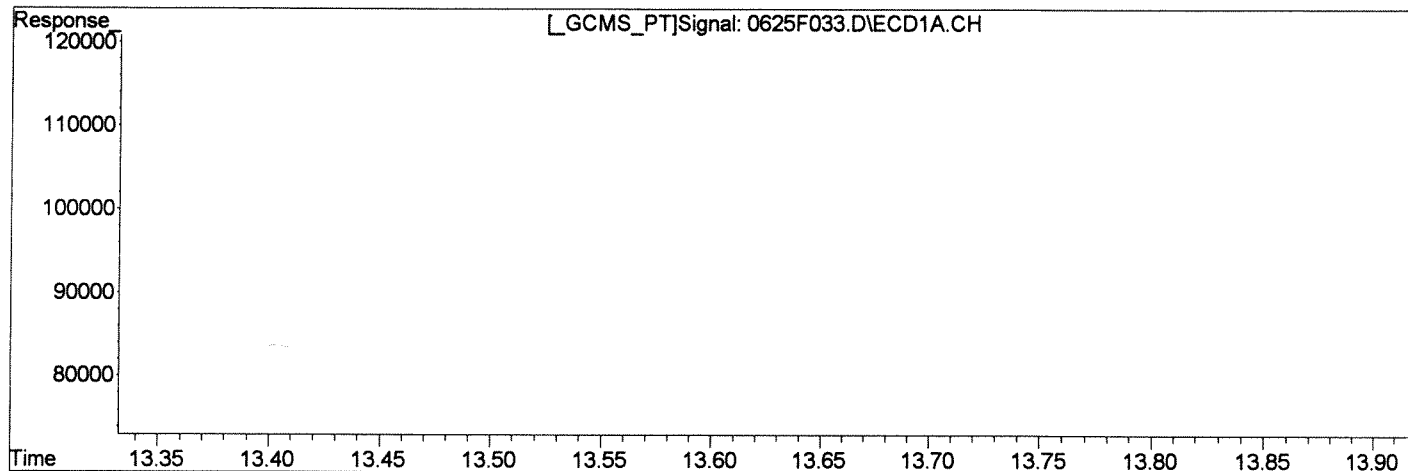
Manual Integration:
Before
06/26/14

(+) = Expected Retention Time
0625F033.D GC23-031714-8081.M Thu Jun 26 14:04:36 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F033.D\ECD1A.CH Vial: 26
Signal #2 : J:\GC23\DATA\062514\0625F033.D\ECD2B.CH
Acq On : 26 Jun 2014 5:50 am Operator: SMURRAY
Sample : K1405818-002DMSTC Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F033.D\ECD1A.CH

(31) Toxaphene (2)	Manual Integration:
14.66min 608.260ug/L	After
response 128104	Baseline/Shoulder
	06/26/14
(31) Toxaphene (2) #2	
13.67min 378.598ug/L m	
response 24920	

(+) = Expected Retention Time

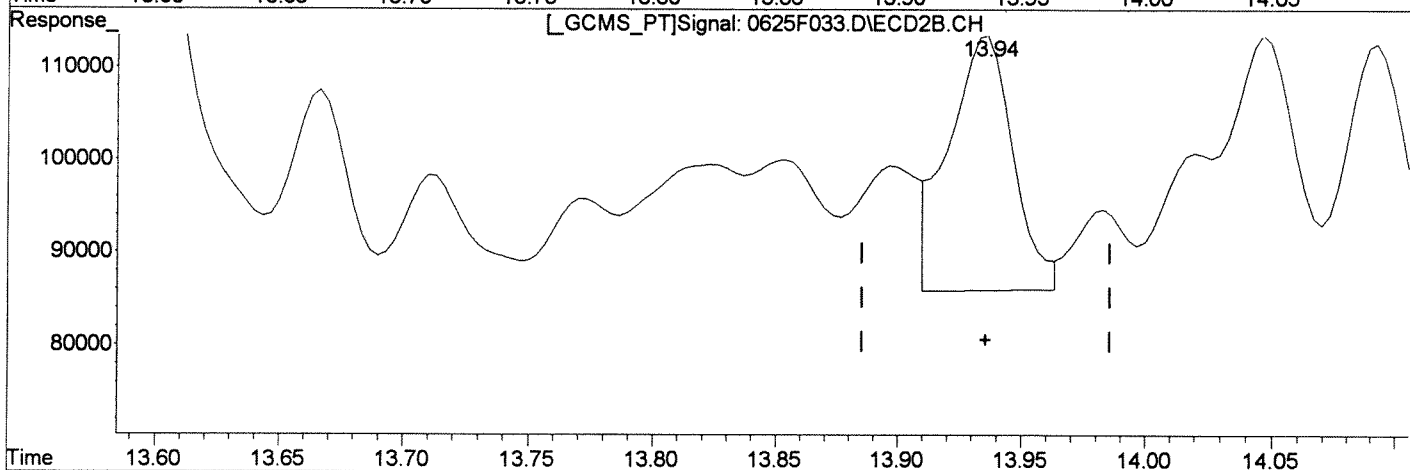
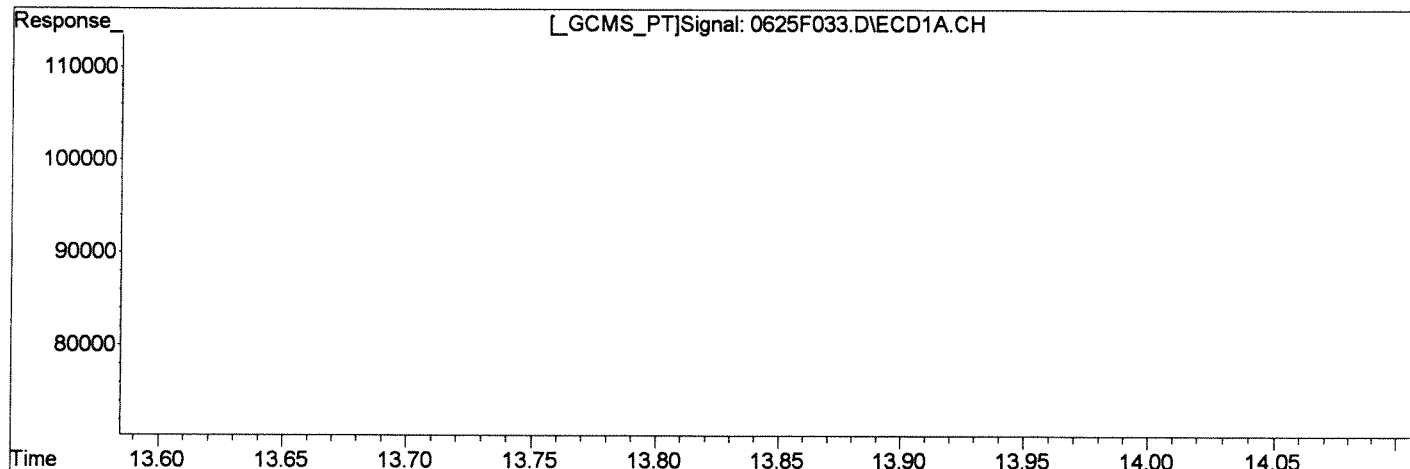
0625F033.D GC23-031714-8081.M

Thu Jun 26 14:04:39 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F033.D\ECD1A.CH Vial: 26
Signal #2 : J:\GC23\DATA\062514\0625F033.D\ECD2B.CH
Acq On : 26 Jun 2014 5:50 am Operator: SMURRAY
Sample : K1405818-002DMSTC Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F033.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(32) Toxaphene {3}	0.00	0.000
(32) Toxaphene {3} #2	554.197	49211

Manual Integration:
Before
06/26/14

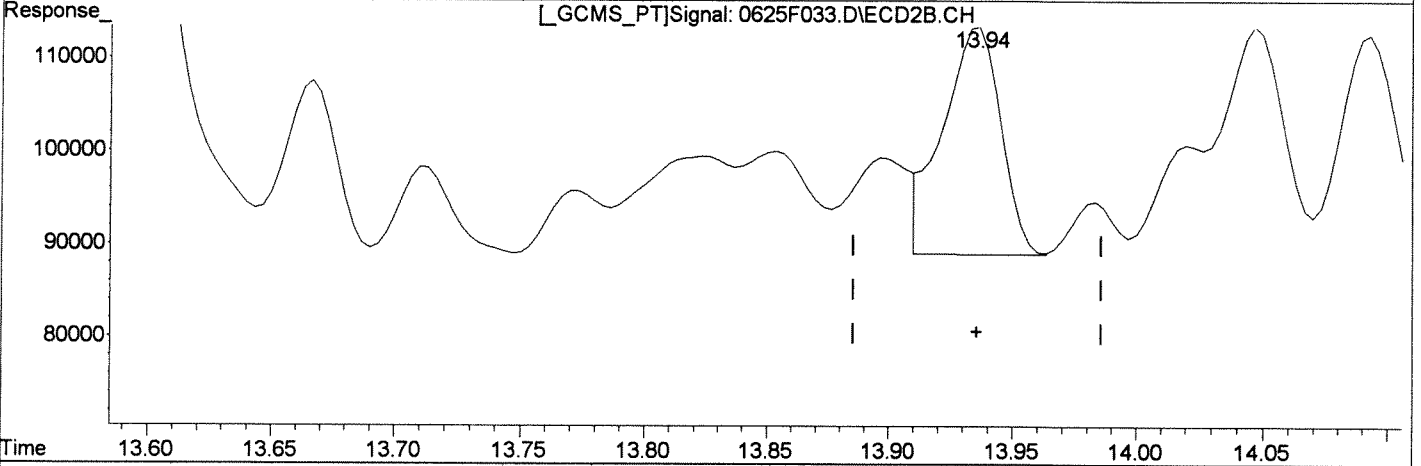
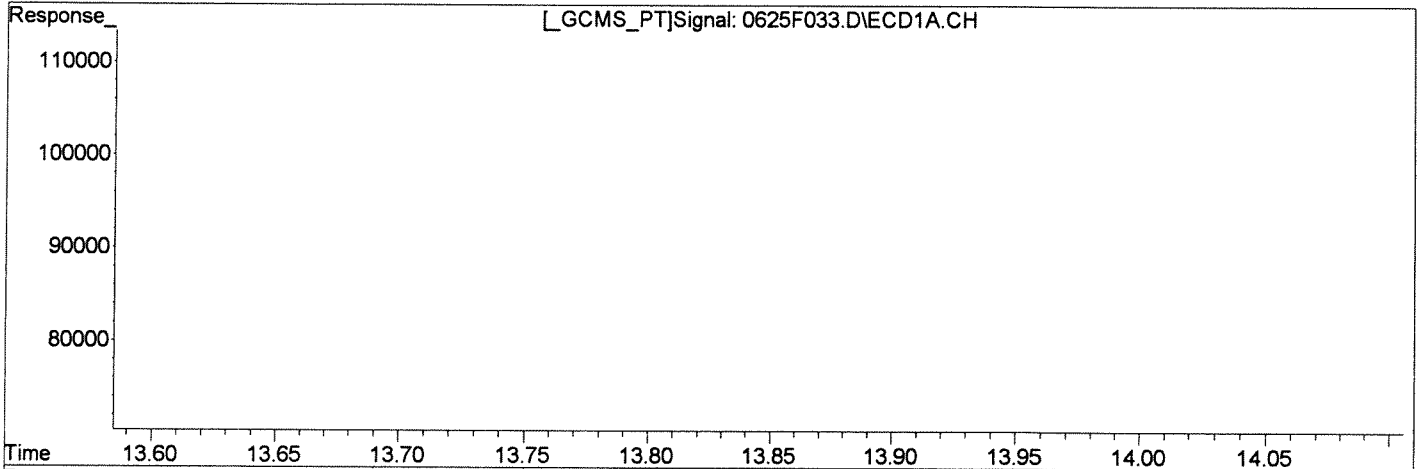
(+) = Expected Retention Time
0625F033.D GC23-031714-8081.M

Thu Jun 26 14:04:43 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F033.D\ECD1A.CH Vial: 26
Signal #2 : J:\GC23\DATA\062514\0625F033.D\ECD2B.CH
Acq On : 26 Jun 2014 5:50 am Operator: SMURRAY
Sample : K1405818-002DMSTC Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F033.D\ECD1A.CH

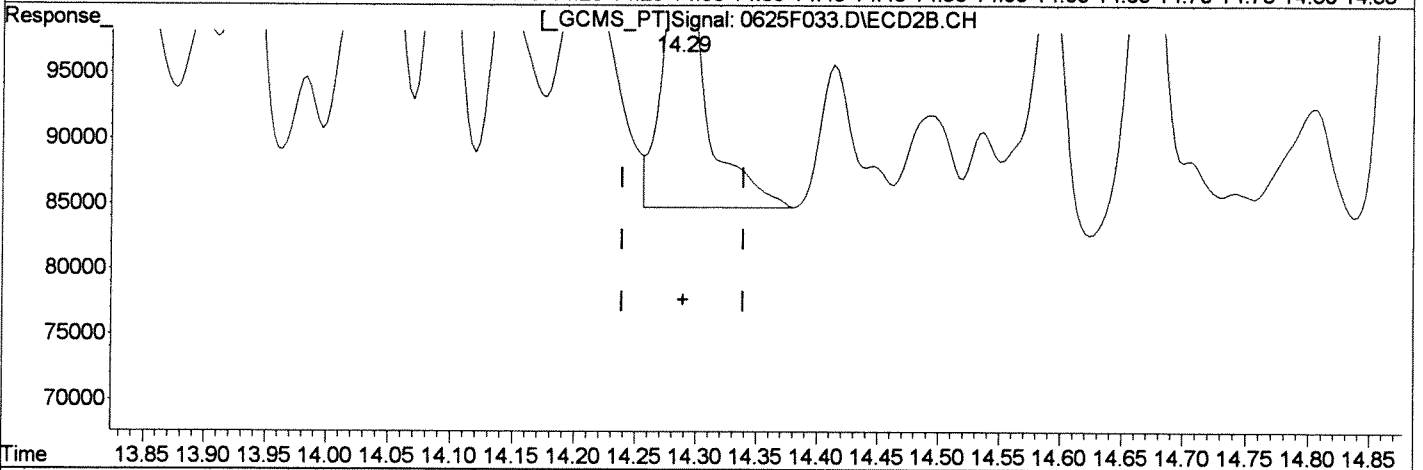
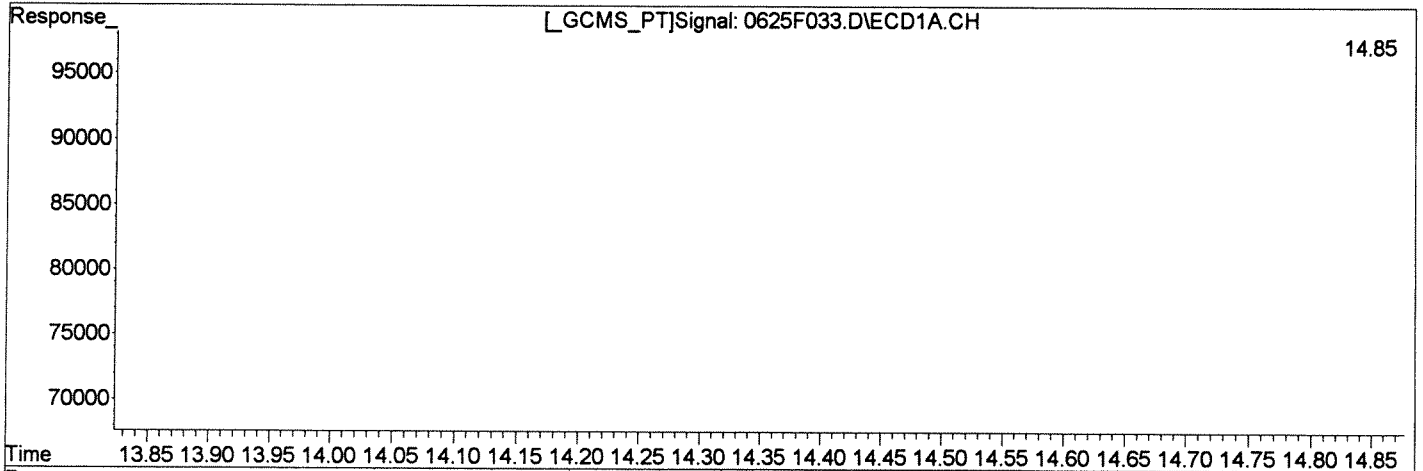
(32) Toxaphene (3)	Manual Integration:
0.00min 0.000ug/L d	After
response 0	Baseline/Shoulder
	06/26/14
(32) Toxaphene (3) #2	
13.94min 444.080ug/L m	
response 39433	

(+) = Expected Retention Time
0625F033.D GC23-031714-8081.M Thu Jun 26 14:04:46 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F033.D\ECD1A.CH Vial: 26
Signal #2 : J:\GC23\DATA\062514\0625F033.D\ECD2B.CH
Acq On : 26 Jun 2014 5:50 am Operator: SMURRAY
Sample : K1405818-002DMSTC Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F033.D\ECD1A.CH

Retention Time	Concentration	Response	Integration Status	Date
(33) Toxaphene {4}	14.85min 453.063ug/L	142256	Manual Integration: Before	06/26/14
(33) Toxaphene {4} #2	14.29min 500.988ug/L	54051		

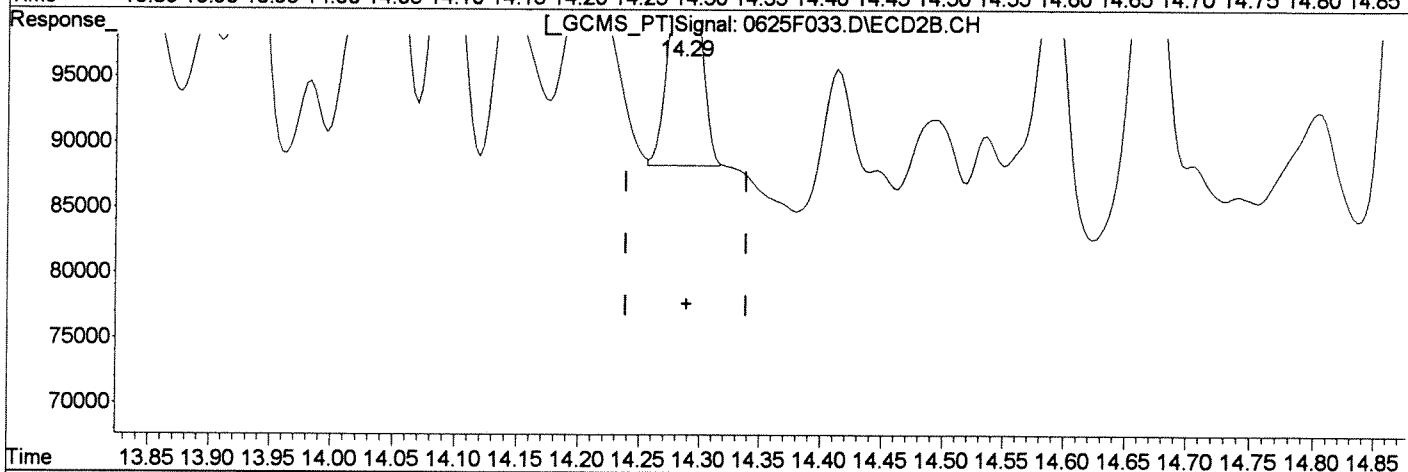
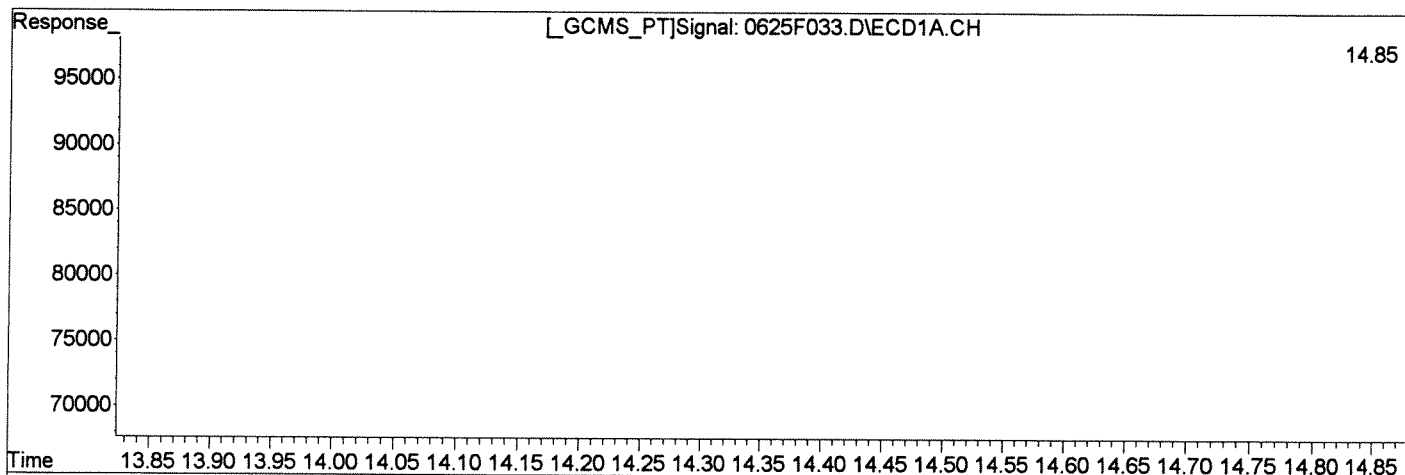
(+) = Expected Retention Time
0625F033.D GC23-031714-8081.M

Thu Jun 26 14:04:48 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F033.D\ECD1A.CH Vial: 26
Signal #2 : J:\GC23\DATA\062514\0625F033.D\ECD2B.CH
Acq On : 26 Jun 2014 5:50 am Operator: SMURRAY
Sample : K1405818-002DMSTC Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F033.D\ECD1A.CH

(33) Toxaphene {4}	Manual Integration:
14.85min 453.063ug/L	After
response 142256	Baseline/Shoulder
	06/26/14
(33) Toxaphene {4} #2	
14.29min 319.393ug/L m	
response 34459	

(+) = Expected Retention Time
0625F033.D GC23-031714-8081.M

Thu Jun 26 14:04:51 2014

Exception Report

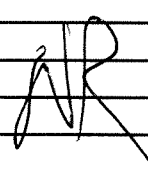
Data File: J:\GC23\DATA\062514\0625F034.D
Lab ID: KWG1406763-1 -- K1405818-002MS
RunType: MS
Matrix: WATER

Date Acquired: 06/26/2014 06:19
Date Quantitated: 06/26/2014 14:06
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	461.666666	7846.666666	
	1-Bromo-2-nitrobenzene {3}	0	2579.916666	90319.666666	
	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	

Primary Review: _____

Secondary Review: _____

Exception Report

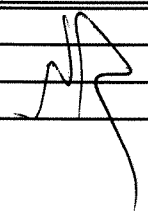
Data File: J:\GC23\DATA\062514\0625F034.D\0625F034C.D
Lab ID: KWG1406763-1 -- K1405818-002MS
RunType: MS
Matrix: WATER

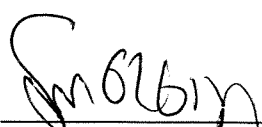
Date Acquired: 06/26/2014 06:19
Date Quantitated: 06/26/2014 14:06
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

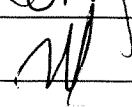
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
	1-Bromo-2-nitrobenzene {4}	0	3189.083333	24756.33333	

Primary Review: 

Secondary Review: 

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F034.D	Instrument:	GC23	
Data File #2:	J:\GC23\DATA\062514\0625F034.D\0625F034c.d	Vial:	27	
Acqu Date:	06/26/2014 06:19	Quant Date:	06/26/2014 14:06	
Run Type:	MS	Dilution:	1.0	
Lab ID:	KWG1406763-1 -- K1405818-002MS		Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS	

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/25/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1351003	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.05 ^{-0.11}	5.47 ^{-0.09}	2163681	846267	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{-0.01}	7.26 ^{-0.01}	1542049	627596	59.59	56.20	NR
				%Recovery =		60 OK	56 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{-0.01}	17.06 ^{-0.02}	1435325	568994	62.55	60.11	NR
				%Recovery =		63 OK	60 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC			0d	0d	0.0000	0.0000	0.00034U	0.00034U	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	0.00032U	0.00032U	0.00032U
1	beta-BHC			0d	0d	0.0000	0.0000	0.00084U	0.00084U	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	0.00045U	0.00045U	NR
1	delta-BHC			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	Heptachlor			0d	0d	0.0000	0.0000	0.00037U	0.00037U	NR
1	Aldrin			0d	0d	0.0000	0.0000	0.00041U	0.00041U	NR
1	Isodrin			0d	0d	0.0000	0.0000	0.00057U	0.00057U	0.00057U
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F034.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F034.D\0625F034c.d	Vial:	27
Acqu Date:	06/26/2014 06:19	Quant Date:	06/26/2014 14:06
Run Type:	MS	Dilution:	1.0
Lab ID:	KWG1406763-1 -- K1405818-002MS	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

		Final Conc. Units: ug/L								
IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR
1	Endosulfan I			0d	0d	0.0000	0.0000	0.00045U	0.00045U	NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000	0.0041U	0.0041U	NR
1	Dieldrin			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	4,4'-DDE			0d	0d	0.0000	0.0000	0.00037U	0.00037U	NR
1	Endrin			0d	0d	0.0000	0.0000	0.00069U	0.00069U	NR
1	Endosulfan II			0d	0d	0.0000	0.0000	0.00041U	0.00041U	NR
1	4,4'-DDD			0d	0d	0.0000	0.0000	0.0016U	0.0016U	NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000	0.00047U	0.00047U	NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000	0.00048U	0.00048U	0.00048U
1	4,4'-DDT			0d	0d	0.0000	0.0000	0.00059U	0.00059U	NR
1	Endrin Ketone			0d	0d	0.0000	0.0000	0.00067U	0.00067U	NR
1	Methoxychlor			0d	0d	0.0000	0.0000	0.00094U	0.00094U	NR
1	2,4'-DDE	13.08 ^{-0.01}	12.01 ^{-0.01}	1227674	524056	67.90	70.05	0.137	0.142	0.137
1	2,4'-DDD	13.81 ^{-0.01}	12.79 ^{-0.01}	1053366	459530	63.99	67.43	0.129	0.136	0.129
1	2,4'-DDT	14.30 ^{-0.02}	13.21 ^{-0.01}	1303156	501720	76.00	69.30	0.154	0.140	0.140
	Toxaphene			0	0	0.0000	0.0000	0.0520U	0.0520U	NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {2}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {3}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {4}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {5}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {6}			0d	0d	0.0000	0.0000	0.052U	0.052U	
	Chlordane			0	0	0.0000	0.0000	0.0230U	0.0230U	NR
3	Chlordane {1}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {2}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {3}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {4}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {5}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {6}			0d	0d	0.0000	0.0000	0.023U	0.023U	
4	Chlorpyrifos			0d	0d	0.0000	0.0000	0.00084U	0.00084U	0.00084U
4	Oxychlordane			0d	0d	0.0000	0.0000	0.0011U	0.0011U	NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000	0.00061U	0.00061U	NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000	0.00093U	0.00093U	NR
4	Mirex			0d	0d	0.0000	0.0000	0.00082U	0.00082U	NR
4	Hexachloroethane			0d	0d	0.0000	0.0000	0.0013U	0.0013U	0.0013U
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000	0.0020U	0.0020U	0.0020U
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
?: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F034.D\ECD1A.CH Vial: 27
 Signal #2 : J:\GC23\DATA\062514\0625F034.D\ECD2B.CH
 Acq On : 26 Jun 2014 6:19 am Operator: SMURRAY
 Sample : K1405818-002MS 24 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:30 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

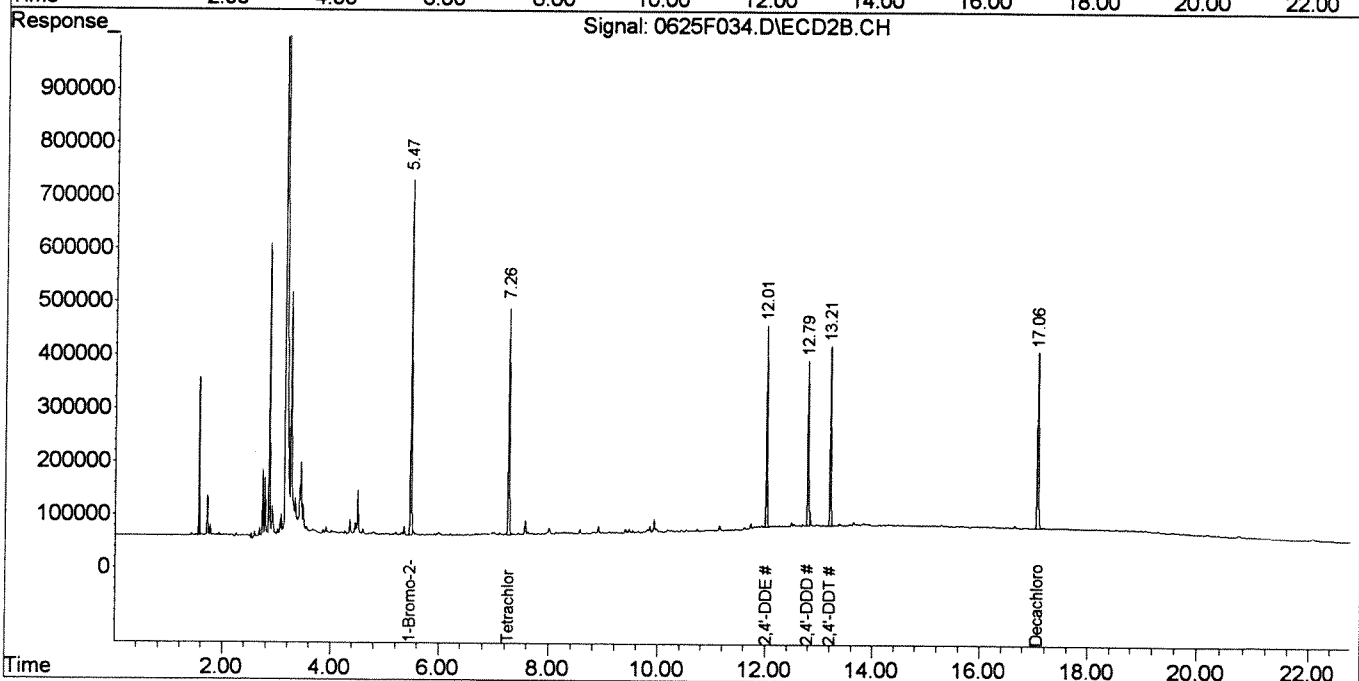
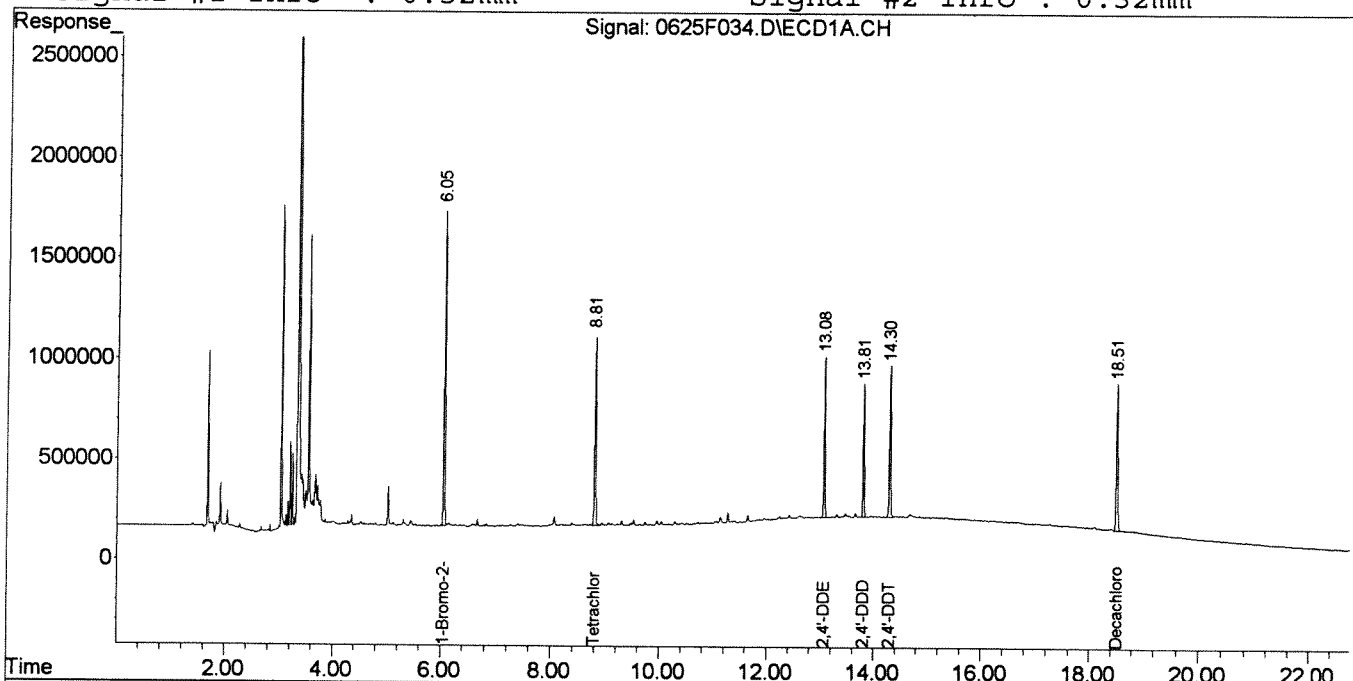
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.05	5.47	2163681	846267	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.26	1542049	627596	59.589	56.198
28) s Decachlorobiphen	18.51	17.06	1435325	568994	62.551	60.109
Target Compounds						
25) 2,4'-DDE	13.08	12.01	1227674	524056	67.899	70.053
26) 2,4'-DDD	13.81	12.79	1053366	459530	63.994	67.428
27) 2,4'-DDT	14.30	13.21	1303156	501720	76.000	69.301

Signal #1 : J:\GC23\DATA\062514\0625F034.D\ECD1A.CH Vial: 27
 Signal #2 : J:\GC23\DATA\062514\0625F034.D\ECD2B.CH
 Acq On : 26 Jun 2014 6:19 am Operator: SMURRAY
 Sample : K1405818-002MS 24 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:06 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

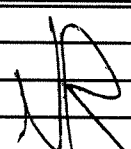
Data File: J:\GC23\DATA\062514\0625F035.D
Lab ID: KWG1406763-2 -- K1405818-002DMS
RunType: DMS
Matrix: WATER

Date Acquired: 06/26/2014 06:49
Date Quantitated: 06/26/2014 14:06
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	461.666666	7846.666666	
	1-Bromo-2-nitrobenzene {3}	0	2579.916666	319.666666	
	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F035.D	Instrument:	GC23	
Data File #2:	J:\GC23\DATA\062514\0625F035.D\0625F035c.d	Vial:	28	
Acqu Date:	06/26/2014 06:49	Quant Date:	06/26/2014 14:06	
Run Type:	DMS	Dilution:	1.0	
Lab ID:	KWG1406763-2 -- K1405818-002DMS		Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS	

Bottle ID:		Tier:	WATER
Prod Code:	8081B Pest OC	Collect Date:	06/25/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1351004	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.05 ^{-0.11}	5.47 ^{-0.09}	2267331	889497	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{-0.01}	7.26 ^{-0.01}	1608710	657143	59.32	55.98	NR
						%Recovery =	59 OK 56 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{-0.01}	17.06 ^{-0.02}	1473303	586474	61.20	58.94	NR
						%Recovery =	61 OK 59 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-BHC			0d	0d	0.0000	0.0000	0.00034U	0.00034U	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	0.00032U	0.00032U	0.00032U
1	beta-BHC			0d	0d	0.0000	0.0000	0.00084U	0.00084U	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	0.00045U	0.00045U	NR
1	delta-BHC			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	Heptachlor			0d	0d	0.0000	0.0000	0.00037U	0.00037U	NR
1	Aldrin			0d	0d	0.0000	0.0000	0.00041U	0.00041U	NR
1	Isodrin			0d	0d	0.0000	0.0000	0.00057U	0.00057U	0.00057U
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F035.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F035.D\0625F035c.d	Vial:	28
Acqu Date:	06/26/2014 06:49	Quant Date:	06/26/2014 14:06
Run Type:	DMS	Dilution:	1.0
Lab ID:	KWG1406763-2 -- K1405818-002DMS	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	gamma-Chlordane			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR
1	Endosulfan I			0d	0d	0.0000	0.0000	0.00045U	0.00045U	NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000	0.0041U	0.0041U	NR
1	Dieldrin			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	4,4'-DDE			0d	0d	0.0000	0.0000	0.00037U	0.00037U	NR
1	Endrin			0d	0d	0.0000	0.0000	0.00069U	0.00069U	NR
1	Endosulfan II			0d	0d	0.0000	0.0000	0.00041U	0.00041U	NR
1	4,4'-DDD			0d	0d	0.0000	0.0000	0.0016U	0.0016U	NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000	0.00047U	0.00047U	NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000	0.00048U	0.00048U	0.00048U
1	4,4'-DDT			0d	0d	0.0000	0.0000	0.00059U	0.00059U	NR
1	Endrin Ketone			0d	0d	0.0000	0.0000	0.00067U	0.00067U	NR
1	Methoxychlor			0d	0d	0.0000	0.0000	0.00094U	0.00094U	NR
1	2,4'-DDE	13.08 ^{-0.01}	12.02	1253636	531918	66.17	67.65	0.134	0.137	0.134
1	2,4'-DDD	13.81 ^{-0.01}	12.79 ^{-0.01}	1065091	463259	61.75	64.67	0.125	0.131	0.125
1	2,4'-DDT	14.31 ^{-0.01}	13.21 ^{-0.01}	1319194	510016	73.42	67.02	0.148	0.135	0.135
	Toxaphene			0	0	0.0000	0.0000	0.0520U	0.0520U	NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {2}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {3}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {4}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {5}			0d	0d	0.0000	0.0000	0.052U	0.052U	
2	Toxaphene {6}			0d	0d	0.0000	0.0000	0.052U	0.052U	
	Chlordane			0	0	0.0000	0.0000	0.0230U	0.0230U	NR
3	Chlordane {1}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {2}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {3}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {4}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {5}			0d	0d	0.0000	0.0000	0.023U	0.023U	
3	Chlordane {6}			0d	0d	0.0000	0.0000	0.023U	0.023U	
4	Chlorpyrifos			0d	0d	0.0000	0.0000	0.00084U	0.00084U	0.00084U
4	Oxychlordane			0d	0d	0.0000	0.0000	0.0011U	0.0011U	NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000	0.00061U	0.00061U	NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000	0.00093U	0.00093U	NR
4	Mirex			0d	0d	0.0000	0.0000	0.00082U	0.00082U	NR
4	Hexachloroethane			0d	0d	0.0000	0.0000	0.0013U	0.0013U	0.0013U
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000	0.0020U	0.0020U	0.0020U
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 D: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F035.D\ECD1A.CH Vial: 28
 Signal #2 : J:\GC23\DATA\062514\0625F035.D\ECD2B.CH
 Acq On : 26 Jun 2014 6:49 am Operator: SMURRAY
 Sample : K1405818-002DMS 24 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:32 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

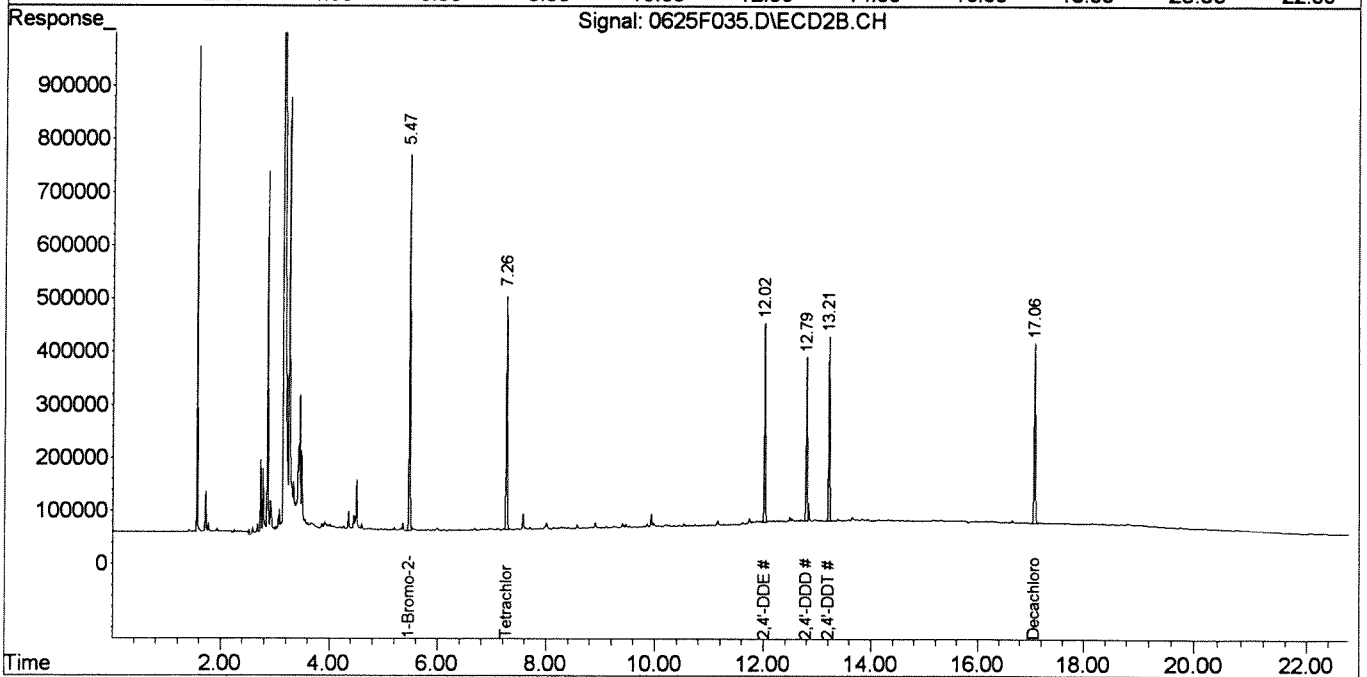
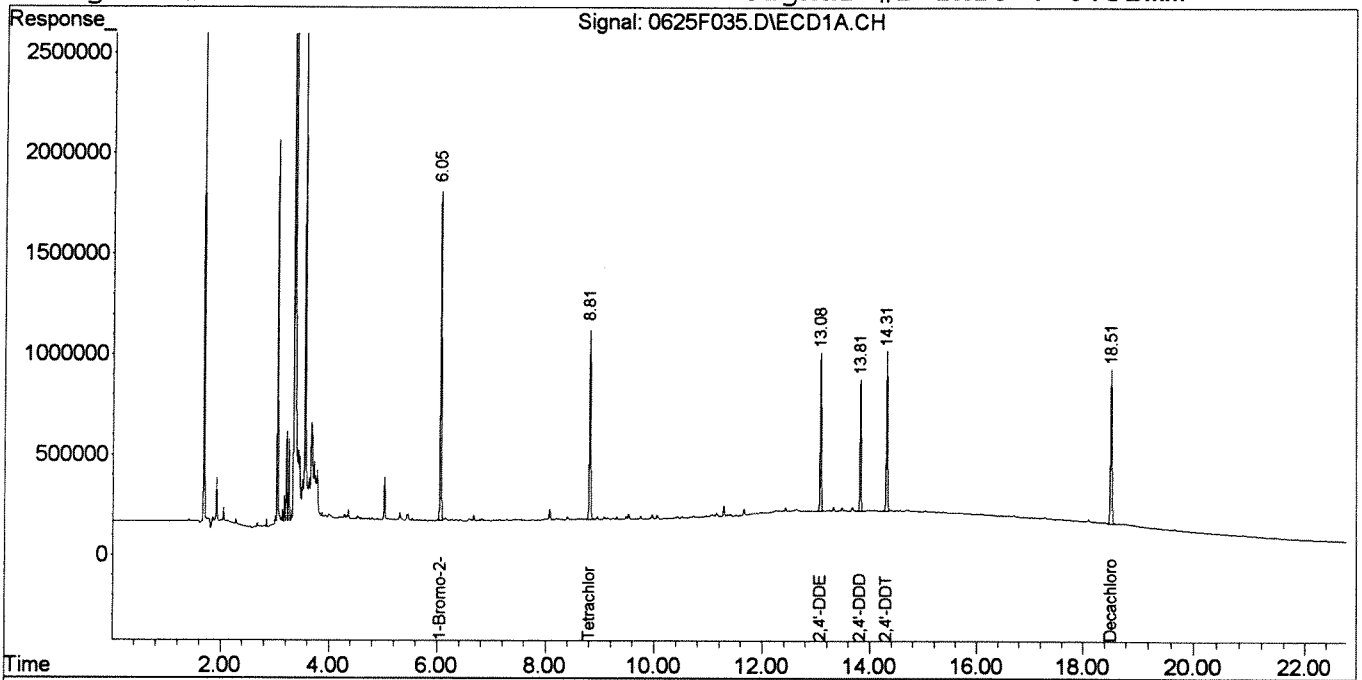
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.05	5.47	2267331	889497	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.26	1608710	657143	59.320	55.984
28) s Decachlorobiphen	18.51	17.06	1473303	586474	61.200	58.944
Target Compounds						
25) 2,4'-DDE	13.08	12.02	1253636	531918	66.166	67.648
26) 2,4'-DDD	13.81	12.79	1065091	463259	61.748	64.671
27) 2,4'-DDT	14.31	13.21	1319194	510016	73.418	67.023

Signal #1 : J:\GC23\DATA\062514\0625F035.D\ECD1A.CH Vial: 28
Signal #2 : J:\GC23\DATA\062514\0625F035.D\ECD2B.CH
Acq On : 26 Jun 2014 6:49 am Operator: SMURRAY
Sample : K1405818-002DMS 24 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 14:06 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration
DataAcq Meth : PEST1UL.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

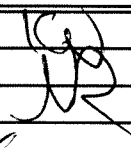
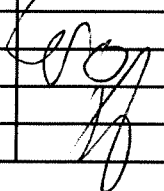
Data File: J:\GC23\DATA\062514\0625F016.D
Lab ID: KWG1405574-1
RunType: LCS
Matrix: WATER

Date Acquired: 06/25/2014 21:27
Date Quantitated: 06/26/2014 13:30
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

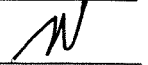
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	0461.666666	07846.666666	
	1-Bromo-2-nitrobenzene {3}	0	0579.916666	00319.666666	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	
	4,4'-DDD	14.5	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.06	NA	NA	
	cis-Nonachlor	14.5	NA	NA	
Above Highest ICAL Level	cis-Nonachlor	149.94	NA	100	

Primary Review: 

Secondary Review: 

Exception Report

Data File: J:\GC23\DATA\062514\0625F016.D\0625F016C.D
Lab ID: KWG1405574-1
RunType: LCS
Matrix: WATER

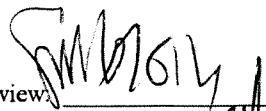
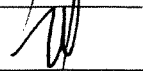
Date Acquired: 06/25/2014 21:27
Date Quantitated: 06/26/2014 13:30
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Chlorpyrifos	25.9	NA	20	RO
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	NR
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.48	NA	NA	SA
	1-Bromo-2-nitrobenzene {4}	5.48	NA	NA	
Above Highest ICAL Level	Chlorpyrifos	107.31	NA	100	RO

Primary Review: 
 Secondary Review: 

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F016.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F016.D\0625F016c.d	Vial:	15
Acqu Date:	06/25/2014 21:27	Quant Date:	06/26/2014 13:30
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1405574-1	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/11/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1405574	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1347306	Prep Date:	06/11/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F022.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10c}	5.48 ^{-0.07c}	2004022	788161	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.06 ^{+0.14c}	5.48 ^{+0.09c}	2004022	788161	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{+0.02}	7.27 ^{+0.02}	1751589	733326	73.24	70.51	73 OK
				%Recovery =		73 OK	71 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{+0.01}	17.06 ^{+0.01}	1514491	627897	71.81	71.22	72 OK
				%Recovery =		72 OK	71 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC	9.66 ^{+0.02}	8.50 ^{+0.01}	2545177	1023608	82.33	81.69	0.165	0.163	0.163
1	Hexachlorobenzene	9.81 ^{+0.01}	8.28 ^{+0.01}	2077387	874789	76.84	72.72	0.154	0.145	0.145
1	beta-BHC	10.93 ^{+0.02}	9.78 ^{+0.01}	1065057	475492	83.24	82.47	0.166	0.165	0.165
1	gamma-BHC (Lindane)	10.33 ^{+0.02}	9.25 ^{+0.02}	2359849	924920	82.92	79.98	0.166	0.160	0.160
1	delta-BHC	11.43 ^{+0.02}	10.31 ^{+0.01}	2420586	998179	87.52	87.90	0.175	0.176	0.175
1	Heptachlor	11.53 ^{+0.02}	9.93 ^{+0.01}	2180195	860379	78.92	79.69	0.158	0.159	0.158
1	Aldrin	12.07 ^{+0.01}	10.52 ^{+0.01}	1913722	822929	67.97	68.96	0.136	0.138	0.136
1	Isodrin	12.59 ^{+0.01}	11.32 ^{+0.02}	1736037	734538	73.68	74.20	0.147	0.148	0.147
1	Heptachlor Epoxide	12.79 ^{+0.01}	11.60 ^{+0.01}	2010798	826952	77.39	77.93	0.155	0.156	0.155

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F016.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F016.D\0625F016c.d	Vial:	15
Acqu Date:	06/25/2014 21:27	Quant Date:	06/26/2014 13:30
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1405574-1	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane	13.31 ^{+0.01}	11.98 ^{+0.01}	2019080	844909	76.84	76.22	0.154	0.152	0.152
1	Endosulfan I	13.43 ^{+0.01}	12.19 ^{+0.01}	1472367	623967	62.84	65.04	0.126	0.130	0.126
1	alpha-Chlordane	13.38 ^{+0.01}	12.13 ^{+0.01}	1961164	822702	75.65	75.76	0.151	0.152	0.151
1	Dieldrin	13.85 ^{+0.01}	12.64 ^{+0.01}	2041076	848885	81.33	78.44	0.163	0.157	0.157
1	4,4'-DDE	13.66 ^{+0.01}	12.49 ^{+0.01}	1989951	886557	78.87	82.54	0.158	0.165	0.158
1	Endrin	14.22 ^{+0.01}	13.12 ^{+0.01}	1804075	792771	82.79	85.16	0.166	0.170	0.166
1	Endosulfan II	14.66 ^{+0.01}	13.55 ^{+0.01}	1560378	638661	72.03	71.72	0.144	0.143	0.143
1	4,4'-DDD	14.50 ^{+0.01c}	13.37 ^{+0.01}	3849812	704019	186.88	83.95	0.374	0.168	0.168P
1	Endrin Aldehyde	14.85 ^{+0.01}	13.92 ^{+0.02}	1312386	557402	92.37	81.17	0.185	0.162	0.162
1	Endosulfan Sulfate	15.32 ^{+0.01}	14.24 ^{+0.01}	1692970	700449	88.22	84.36	0.176	0.169	0.169
1	4,4'-DDT	15.00 ^{+0.01}	13.80 ^{+0.01}	1680419	684086	91.75	86.12	0.183	0.172	0.172
1	Endrin Ketone	16.00 ^{+0.01}	15.19 ^{+0.01}	2113333	849011	87.28	82.97	0.175	0.166	0.166
1	Methoxychlor	15.75 ^{+0.01}	14.90 ^{+0.01}	927632	370207	95.46	91.28	0.191	0.183	0.183
1	2,4'-DDE			0d	0d	0.0000	0.0000	0.00050U	0.00050U	NR
1	2,4'-DDD			0d	0d	0.0000	0.0000	0.00057U	0.00057U	NR
1	2,4'-DDT			0d	0d	0.0000	0.0000	0.00059U	0.00059U	NR
	Toxaphene			0	0	0.0000	0.0000	0.0510U	0.0510U	NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {2}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {3}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {4}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {5}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {6}			0d	0d	0.0000	0.0000	0.051U	0.051U	
	Chlordane			0	0	0.0000	0.0000	0.0220U	0.0220U	NR
3	Chlordane {1}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {2}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {3}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {4}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {5}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {6}			0d	0d	0.0000	0.0000	0.022U	0.022U	
4	Chlorpyrifos	12.00	10.89	950551	408479	87.94	107.31 ^(cv)	0.176	0.215E	0.176
4	Oxychlordane	12.75	11.39	1607738	680671	75.11	75.53	0.150	0.151	0.150
4	cis-Nonachlor	14.50	c 13.22	3849812	909870	149.94	80.17	0.300E	0.160	0.160P
4	trans-Nonachlor	13.46 ^{-0.01}	12.02	1992875	837061	77.84	75.79	0.156	0.152	0.152
4	Mirex	16.85	15.37	1470353	614180	76.74	79.84	0.153	0.160	0.153
4	Hexachloroethane	4.04	3.44	2893531	1097253	61.13	60.06	0.122	0.120	0.120
4	Hexachlorobutadiene	4.81	3.99	1987815	794013	54.90	54.24	0.110	0.108	0.108
4	Alachlor	10.84	8.94	2410	8086	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F016.D\ECD1A.CH Vial: 15
 Signal #2 : J:\GC23\DATA\062514\0625F016.D\ECD2B.CH
 Acq On : 25 Jun 2014 9:27 pm Operator: SMURRAY
 Sample : KWG1405574-LCS1 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:11:54 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards							
1) i	1-Bromo-2-nitrob	6.06	5.48	2004022	788161	100.000	100.000
43)	1-Bromo-2-nitrob	6.06	5.48	2004022	788161	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachloro-m-xy	8.81	7.27	1751589	733326	73.241	70.507
28) s	Decachlorobiphen	18.51	17.06	1514491	627897	71.809	71.222
Target Compounds							
3)	alpha-BHC	9.66	8.50	2545177	1023608	82.331	81.689
4)	Hexachlorobenzen	9.81	8.28	2077387	874789	76.837	72.715
5)	beta-BHC	10.93	9.78	1065057	475492	83.242	82.466
6)	gamma-BHC (Linda	10.33	9.25	2359849	924920	82.922	79.976
7)	delta-BHC	11.43	10.31	2420586	998179	87.524	87.899
8)	Heptachlor	11.53	9.93	2180195	860379	78.916	79.689
9)	Aldrin	12.07	10.52	1913722	822929	67.965	68.964
10)	Isodrin	12.59	11.32	1736037	734538	73.679	74.201
11)	Heptachlor Epoxi	12.79	11.60	2010798	826952	77.389	77.930
12)	gamma-Chlordane	13.31	11.98	2019080	844909	76.836	76.218
13)	Endosulfan I	13.43	12.19	1472367	623967	62.842	65.036
14)	alpha-Chlordane	13.38	12.13	1961164	822702	75.650	75.764
15)	Dieldrin	13.85	12.64	2041076	848885	81.330	78.439
16)	4,4'-DDE	13.66	12.49	1989951	886557	78.866	82.535
17)	Endrin	14.22	13.12	1804075	792771	82.789	85.161
18)	Endosulfan II	14.66	13.55	1560378	638661	72.026	71.717
19)	4,4'-DDD	14.50	13.37	3849812	704019	186.878	83.949 #
20)	Endrin Aldehyde	14.85	13.92	1312386	557402	92.369	81.168
21)	Endosulfan Sulfa	15.32	14.24	1692970	700449	88.223	84.358
22)	4,4'-DDT	15.00	13.80	1680419	684086	91.748	86.122
23)	Endrin Ketone	16.00	15.19	2113333	849011	87.277	82.965
24)	Methoxychlor	15.75	14.90	927632	370207	95.458	91.275
44)	Chlorpyrifos	12.00	10.89	950551	408479	87.939	107.314
45)	Oxychlordane	12.75	11.39	1607738	680671	75.108	75.526
46)	cis-Nonachlor	14.50	13.22	3849812	909870	149.941	80.174 #
47)	trans-Nonachlor	13.46	12.02	1992875	837061	77.841	75.791
48)	Mirex	16.85	15.37	1470353	614180	76.738	79.844

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC23\DATA\062514\0625F016.D\ECD1A.CH Vial: 15
 Signal #2 : J:\GC23\DATA\062514\0625F016.D\ECD2B.CH
 Acq On : 25 Jun 2014 9:27 pm Operator: SMURRAY
 Sample : KWG1405574-LCS1 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:11:54 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

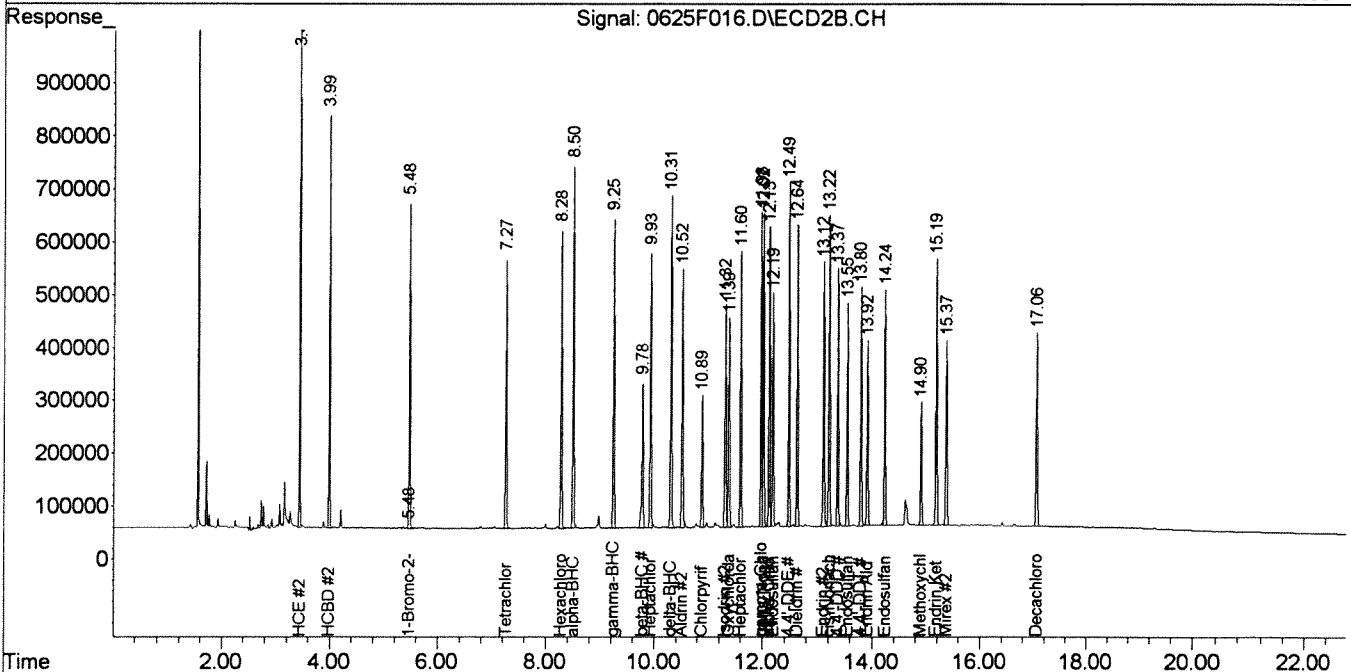
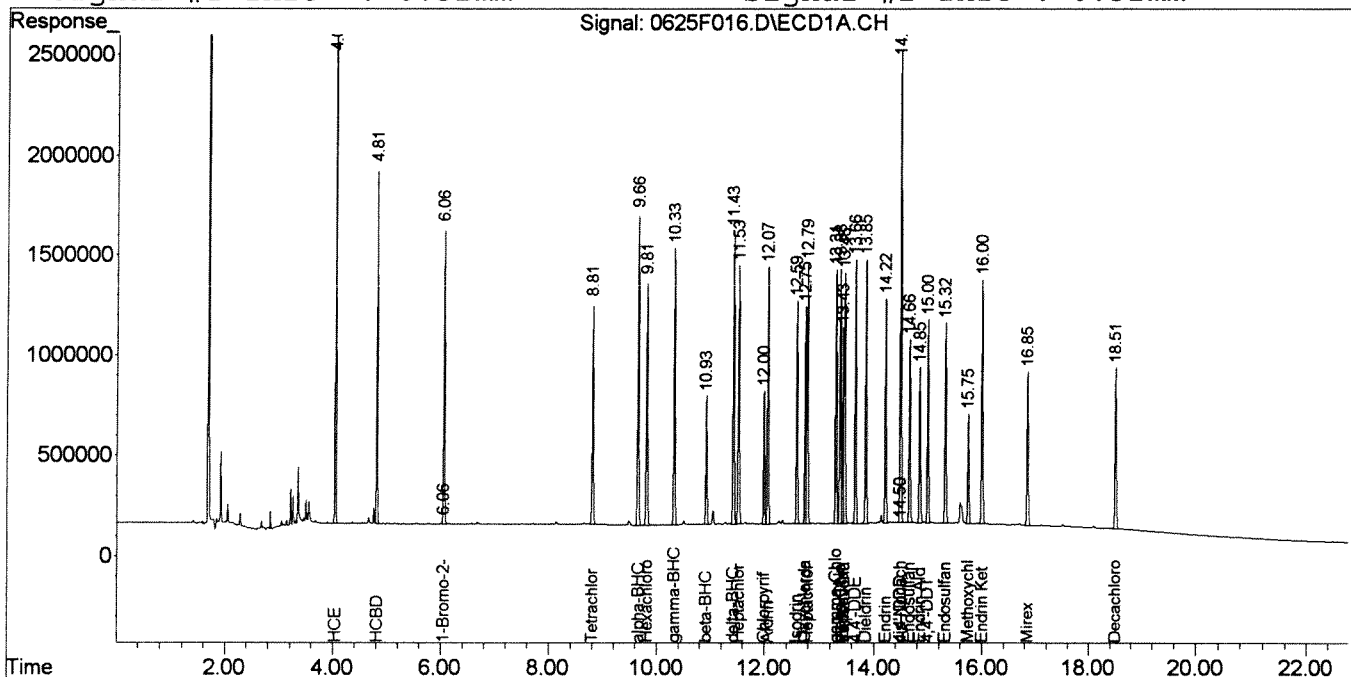
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
49)	HCE	4.04	3.44	2893531	1097253	61.126	60.059
50)	HCBD	4.81	3.99	1987815	794013	54.895	54.235

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\062514\0625F016.D\ECD1A.CH Vial: 15
Signal #2 : J:\GC23\DATA\062514\0625F016.D\ECD2B.CH
Acq On : 25 Jun 2014 9:27 pm Operator: SMURRAY
Sample : KWG1405574-LCS1 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 13:30 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration
DataAcq Meth : PEST1UL.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

Data File: J:\GC23\DATA\062514\0625F017.D
Lab ID: KWG1405574-2
RunType: DLCS
Matrix: WATER

Date Acquired: 06/25/2014 21:56
Date Quantitated: 06/26/2014 13:30
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	16
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	461.666666	7846.66666	12
	1-Bromo-2-nitrobenzene {3}	0	579.916666	90319.66666	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	10
	4,4'-DDD	14.5	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.06	NA	NA	
	cis-Nonachlor	14.5	NA	NA	
Above Highest ICAL Level	cis-Nonachlor	142.01	NA	100	10

Primary Review: _____

Secondary Review: _____

Exception Report

Data File: J:\GC23\DATA\062514\0625F017.D\0625F017C.D
Lab ID: KWG1405574-2
RunType: DLCS
Matrix: WATER

Date Acquired: 06/25/2014 21:56
Date Quantitated: 06/26/2014 13:30
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Chlorpyrifos	25.9	NA	20	RO
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	PR
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.48	NA	NA	SA
	1-Bromo-2-nitrobenzene {4}	5.48	NA	NA	
Above Highest ICAL Level	Chlorpyrifos	100.09	NA	100	RO

Primary Review: Sam Green

Secondary Review: [Signature]

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F017.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F017.D\0625F017c.d	Vial:	16
Acqu Date:	06/25/2014 21:56	Quant Date:	06/26/2014 13:30
Run Type:	DLCS	Dilution:	1.0
Lab ID:	KWG1405574-2	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/11/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1405574	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1347307	Prep Date:	06/11/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F022.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10c}	5.48 ^{-0.07c}	2036487	793603	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.06 ^{+0.14c}	5.48 ^{+0.09c}	2036487	793603	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{+0.02}	7.26 ^{+0.01}	1727446	725793	71.06	69.30	71 OK
						%Recovery =	71 OK 69 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{+0.01}	17.07 ^{+0.02}	1584401	657923	74.06	74.12	74 OK
						%Recovery =	74 OK 74 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC	9.65 ^{+0.01}	8.50 ^{+0.01}	2461413	982465	78.35	77.87	0.157	0.156	0.156
1	Hexachlorobenzene	9.81 ^{+0.01}	8.28 ^{+0.01}	2018430	850053	73.37	70.17	0.147	0.140	0.140
1	beta-BHC	10.93 ^{+0.02}	9.78 ^{+0.01}	1036875	468632	79.75	80.72	0.159	0.161	0.159
1	gamma-BHC (Lindane)	10.33 ^{+0.02}	9.25 ^{+0.02}	2273157	892167	78.60	76.62	0.157	0.153	0.153
1	delta-BHC	11.43 ^{+0.02}	10.31 ^{+0.01}	2323551	950094	82.68	83.09	0.165	0.166	0.165
1	Heptachlor	11.53 ^{+0.02}	9.93 ^{+0.01}	2139746	843846	76.22	77.62	0.152	0.155	0.152
1	Aldrin	12.07 ^{+0.01}	10.52 ^{+0.01}	1884865	806725	65.87	67.14	0.132	0.134	0.132
1	Isodrin	12.60 ^{+0.02}	11.32 ^{+0.02}	1722843	722281	71.95	72.46	0.144	0.145	0.144
1	Heptachlor Epoxide	12.79 ^{+0.01}	11.61 ^{+0.02}	1906343	800299	72.20	74.90	0.144	0.150	0.144

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F017.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F017.D\0625F017c.d	Vial:	16
Acqu Date:	06/25/2014 21:56	Quant Date:	-06/26/2014 13:30
Run Type:	DLCS	Dilution:	1.0
Lab ID:	KWG1405574-2	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane	13.31 ^{+0.01}	11.98 ^{+0.01}	2007040	841377	75.16	75.38	0.150	0.151	0.150
1	Endosulfan I	13.44 ^{+0.02}	12.20 ^{+0.02}	1481477	601231	62.22	62.24	0.124	0.124	0.124
1	alpha-Chlordane	13.38 ^{+0.01}	12.13 ^{+0.01}	1950169	810306	74.03	74.11	0.148	0.148	0.148
1	Dieldrin	13.85 ^{+0.01}	12.64 ^{+0.01}	1980577	823338	77.66	75.56	0.155	0.151	0.151
1	4,4'-DDE	13.66 ^{+0.01}	12.49 ^{+0.01}	1981684	886941	77.29	82.00	0.155	0.164	0.155
1	Endrin	14.22 ^{+0.01}	13.12 ^{+0.01}	1741542	758370	78.65	80.91	0.157	0.162	0.157
1	Endosulfan II	14.67 ^{+0.02}	13.55 ^{+0.01}	1511617	615575	68.66	68.65	0.137	0.137	0.137
1	4,4'-DDD	14.50 ^{+0.02}	13.38 ^{+0.02}	3705133	689444	176.99	81.65	0.354	0.163	0.163P
1	Endrin Aldehyde	14.85 ^{+0.01}	13.92 ^{+0.02}	1251986	529412	86.71	76.56	0.173	0.153	0.153
1	Endosulfan Sulfate	15.32 ^{+0.01}	14.24 ^{+0.01}	1627099	674925	83.44	80.73	0.167	0.161	0.161
1	4,4'-DDT	15.00 ^{+0.01}	13.80 ^{+0.01}	1665129	680748	89.46	85.11	0.179	0.170	0.170
1	Endrin Ketone	16.01 ^{+0.02}	15.19 ^{+0.01}	2038769	817902	82.86	79.38	0.166	0.159	0.159
1	Methoxychlor	15.75 ^{+0.01}	14.90 ^{+0.01}	892380	353745	90.37	86.62	0.181	0.173	0.173
1	2,4'-DDE			Od	Od	0.0000	0.0000	0.00050U	0.00050U	NR
1	2,4'-DDD			Od	Od	0.0000	0.0000	0.00057U	0.00057U	NR
1	2,4'-DDT			Od	Od	0.0000	0.0000	0.00059U	0.00059U	NR
	Toxaphene			0	0	0.0000	0.0000	0.0510U	0.0510U	NR
2	Toxaphene {1}			Od	Od	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {2}			Od	Od	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {3}			Od	Od	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {4}			Od	Od	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {5}			Od	Od	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {6}			Od	Od	0.0000	0.0000	0.051U	0.051U	
	Chlordane			0	0	0.0000	0.0000	0.0220U	0.0220U	NR
3	Chlordane {1}			Od	Od	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {2}			Od	Od	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {3}			Od	Od	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {4}			Od	Od	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {5}			Od	Od	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {6}			Od	Od	0.0000	0.0000	0.022U	0.022U	
4	Chlorpyrifos	12.00	10.89	902550	387315	82.17	100.0 ^{acc}	0.164	0.200E	0.164
4	Oxychlorane	12.75	11.39	1567689	645153	72.07	71.09	0.144	0.142	0.142
4	cis-Nonachlor	14.50	13.22	3705133	859326	142.01	75.20	0.284E	0.150	0.150P
4	trans-Nonachlor	13.47	12.02	1823605	785345	70.09	70.62	0.140	0.141	0.140
4	Mirex	16.85	15.37	1400672	586531	71.94	75.30	0.144	0.151	0.144
4	Hexachloroethane	4.04	3.44	2702768	1034830	56.19	56.25	0.112	0.113	0.112
4	Hexachlorobutadiene	4.81	3.99	1849686	747853	50.27	50.73	0.101	0.101	0.101
4	Alachlor	10.83	8.94	2163	8609	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F017.D\ECD1A.CH Vial: 16
 Signal #2 : J:\GC23\DATA\062514\0625F017.D\ECD2B.CH
 Acq On : 25 Jun 2014 9:56 pm Operator: SMURRAY
 Sample : KWG1405574-DLCS2 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:11:56 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards							
1) i	1-Bromo-2-nitrob	6.06	5.48	2036487	793603	100.000	100.000
43)	1-Bromo-2-nitrob	6.06	5.48	2036487	793603	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachloro-m-xy	8.81	7.26	1727446	725793	71.059	69.304
28) s	Decachlorobiphen	18.51	17.07	1584401	657923	74.060	74.116
Target Compounds							
3)	alpha-BHC	9.65	8.50	2461413	982465	78.352	77.868
4)	Hexachlorobenzen	9.81	8.28	2018430	850053	73.373	70.174
5)	beta-BHC	10.93	9.78	1036875	468632	79.747	80.719
6)	gamma-BHC (Linda	10.33	9.25	2273157	892167	78.603	76.615
7)	delta-BHC	11.43	10.31	2323551	950094	82.676	83.091
8)	Heptachlor	11.53	9.93	2139746	843846	76.217	77.621
9)	Aldrin	12.07	10.52	1884865	806725	65.873	67.142
10)	Isodrin	12.60	11.32	1722843	722281	71.953	72.463
11)	Heptachlor Epoxi	12.79	11.61	1906343	800299	72.199	74.901
12)	gamma-Chlordane	13.31	11.98	2007040	841377	75.160	75.379
13)	Endosulfan I	13.44	12.20	1481477	601231	62.223	62.237
14)	alpha-Chlordane	13.38	12.13	1950169	810306	74.027	74.111
15)	Dieldrin	13.85	12.64	1980577	823338	77.661	75.557
16)	4,4'-DDE	13.66	12.49	1981684	886941	77.287	82.004
17)	Endrin	14.22	13.12	1741542	758370	78.645	80.907
18)	Endosulfan II	14.67	13.55	1511617	615575	68.663	68.651
19)	4,4'-DDD	14.50	13.38	3705133	689444	176.988	81.647 #
20)	Endrin Aldehyde	14.85	13.92	1251986	529412	86.713	76.564
21)	Endosulfan Sulfa	15.32	14.24	1627099	674925	83.439	80.727
22)	4,4'-DDT	15.00	13.80	1665129	680748	89.464	85.114
23)	Endrin Ketone	16.01	15.19	2038769	817902	82.855	79.377
24)	Methoxychlor	15.75	14.90	892380	353745	90.366	86.618
44)	Chlorpyrifos	12.00	10.89	902550	387315	82.168	100.086
45)	Oxychlordane	12.75	11.39	1567689	645153	72.069	71.094
46)	cis-Nonachlor	14.50	13.22	3705133	859326	142.006	75.201 #
47)	trans-Nonachlor	13.47	12.02	1823605	785345	70.094	70.621
48)	Mirex	16.85	15.37	1400672	586531	71.936	75.295

Signal #1 : J:\GC23\DATA\062514\0625F017.D\ECD1A.CH Vial: 16
 Signal #2 : J:\GC23\DATA\062514\0625F017.D\ECD2B.CH
 Acq On : 25 Jun 2014 9:56 pm Operator: SMURRAY
 Sample : KWG1405574-DLCS2 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:11:56 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

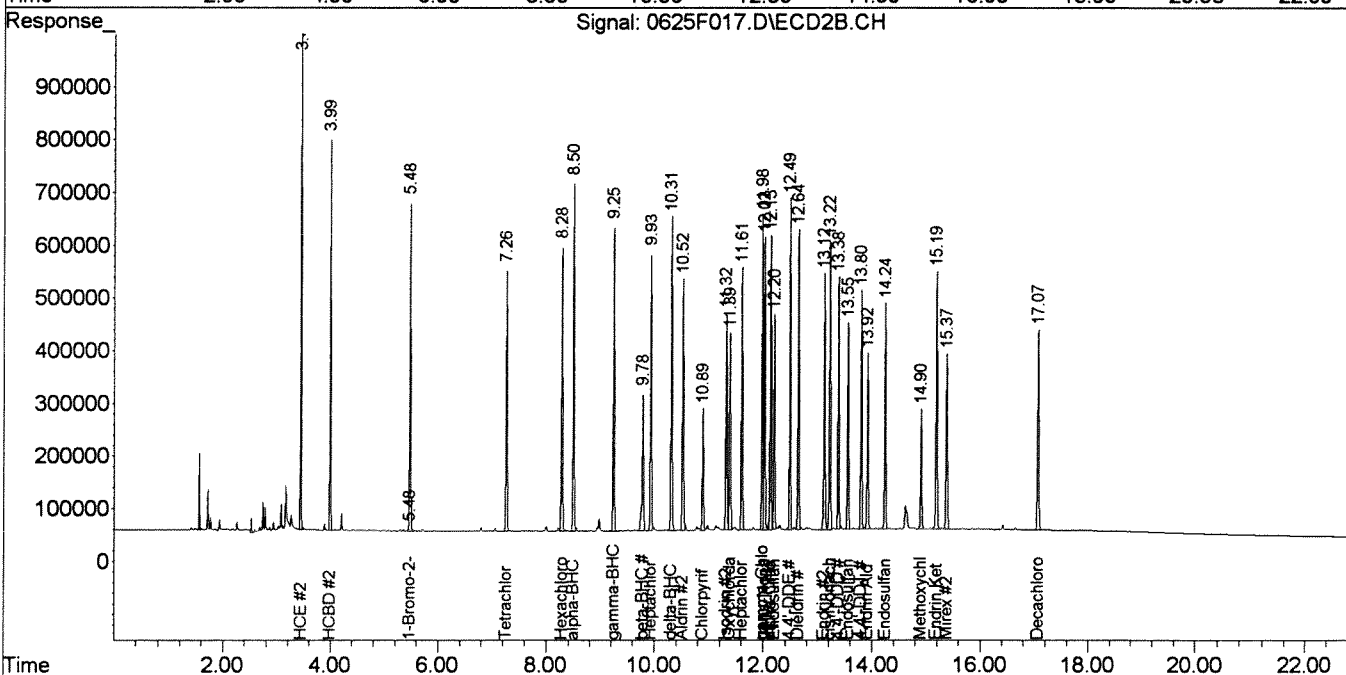
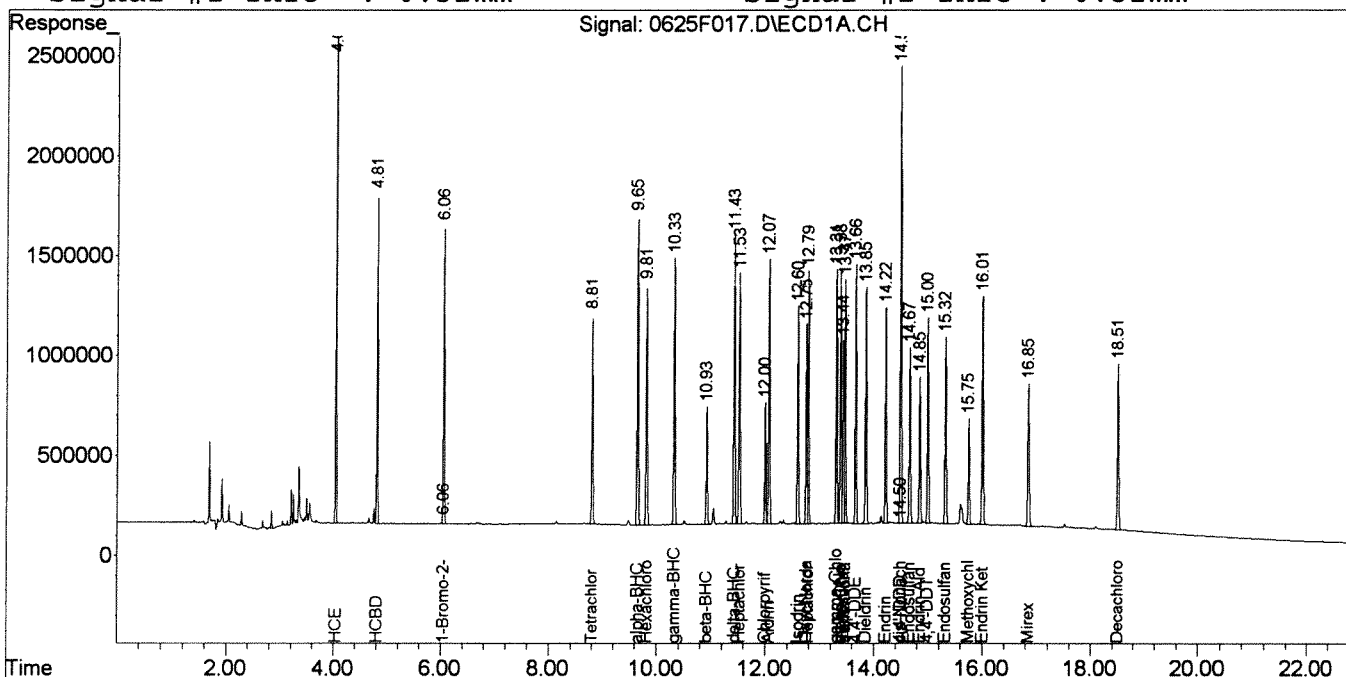
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
49)	HCE	4.04	3.44	2702768	1034830	56.186	56.254
50)	HCBD	4.81	3.99	1849686	747853	50.267	50.731

Signal #1 : J:\GC23\DATA\062514\0625F017.D\ECD1A.CH Vial: 16
 Signal #2 : J:\GC23\DATA\062514\0625F017.D\ECD2B.CH
 Acq On : 25 Jun 2014 9:56 pm Operator: SMURRAY
 Sample : KWG1405574-DLCS2 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 13:30 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

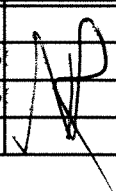
Data File: J:\GC23\DATA\062514\0625F018.D
Lab ID: KWG1405574-1
RunType: LCS
Matrix: WATER

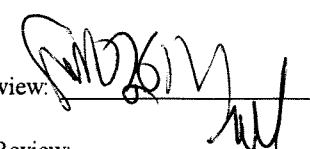
Date Acquired: 06/25/2014 22:26
Date Quantitated: 06/26/2014 13:31
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	461.666666	87846.666666	
	1-Bromo-2-nitrobenzene {3}	0	579.916666	90319.666666	
	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	

Primary Review: 

Secondary Review: _____

Exception Report

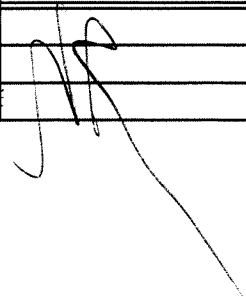
Data File: J:\GC23\DATA\062514\0625F018.D\0625F018C.D
Lab ID: KWG1405574-1
RunType: LCS
Matrix: WATER

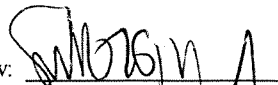
Date Acquired: 06/25/2014 22:26
Date Quantitated: 06/26/2014 13:31
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
	1-Bromo-2-nitrobenzene {4}	0	189.083333	24756.33333	

Primary Review: 
 Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F018.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F018.D\0625F018c.d	Vial:	17
Acqu Date:	06/25/2014 22:26	Quant Date:	06/26/2014 13:31
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1405574-1	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/11/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1405574	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1347306	Prep Date:	06/11/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F022.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10}	5.48 ^{-0.07}	2020577	772421	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{+0.02}	7.27 ^{+0.02}	1736164	728486	71.99	71.47	NR
				%Recovery =		72 OK	71 OK	Limits = 20-106
1	Decachlorobiphenyl	18.52 ^{+0.02}	17.07 ^{+0.02}	1459260	590137	68.43	68.30	NR
				%Recovery =		68 OK	68 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	0.00031U	0.00031U	0.00031U
1	beta-BHC			0d	0d	0.0000	0.0000	0.00083U	0.00083U	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	delta-BHC			0d	0d	0.0000	0.0000	0.00057U	0.00057U	NR
1	Heptachlor			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Aldrin			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	Isodrin			0d	0d	0.0000	0.0000	0.00056U	0.00056U	0.00056U
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F018.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F018.D\0625F018c.d	Vial:	17
Acqu Date:	06/25/2014 22:26	Quant Date:	06/26/2014 13:31
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1405574-1	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR
1	Endosulfan I			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000	0.0040U	0.0040U	NR
1	Dieldrin			0d	0d	0.0000	0.0000	0.00035U	0.00035U	NR
1	4,4'-DDE			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Endrin			0d	0d	0.0000	0.0000	0.00068U	0.00068U	NR
1	Endosulfan II			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	4,4'-DDD			0d	0d	0.0000	0.0000	0.0015U	0.0015U	NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000	0.00046U	0.00046U	NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000	0.00047U	0.00047U	0.00047U
1	4,4'-DDT			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	Endrin Ketone			0d	0d	0.0000	0.0000	0.00066U	0.00066U	NR
1	Methoxychlor			0d	0d	0.0000	0.0000	0.00093U	0.00093U	NR
1	2,4'-DDE	13.08 ^{+0.01}	12.02 ^{+0.02}	1366034	609379	80.90	89.25	0.162	0.178	0.162
1	2,4'-DDD	13.81 ^{+0.01}	12.79 ^{+0.01}	1219129	510906	79.31	82.13	0.159	0.164	0.159
1	2,4'-DDT	14.31 ^{+0.01}	13.21 ^{+0.01}	1349723	548078	84.29	82.94	0.169	0.166	0.166
	Toxaphene			0	0	0.0000	0.0000	0.0510U	0.0510U	NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {2}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {3}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {4}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {5}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {6}			0d	0d	0.0000	0.0000	0.051U	0.051U	
	Chlordane			0	0	0.0000	0.0000	0.0220U	0.0220U	NR
3	Chlordane {1}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {2}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {3}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {4}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {5}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {6}			0d	0d	0.0000	0.0000	0.022U	0.022U	
4	Chlorpyrifos			0d	0d	0.0000	0.0000	0.00083U	0.00083U	0.00083U
4	Oxychlordane			0d	0d	0.0000	0.0000	0.0010U	0.0010U	NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000	0.00060U	0.00060U	NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000	0.00092U	0.00092U	NR
4	Mirex			0d	0d	0.0000	0.0000	0.00081U	0.00081U	NR
4	Hexachloroethane			0d	0d	0.0000	0.0000	0.0012U	0.0012U	0.0012U
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000	0.0019U	0.0019U	0.0019U
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F018.D\ECD1A.CH Vial: 17
 Signal #2 : J:\GC23\DATA\062514\0625F018.D\ECD2B.CH
 Acq On : 25 Jun 2014 10:26 pm Operator: SMURRAY
 Sample : KWG1405574-LCS3 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:11:58 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

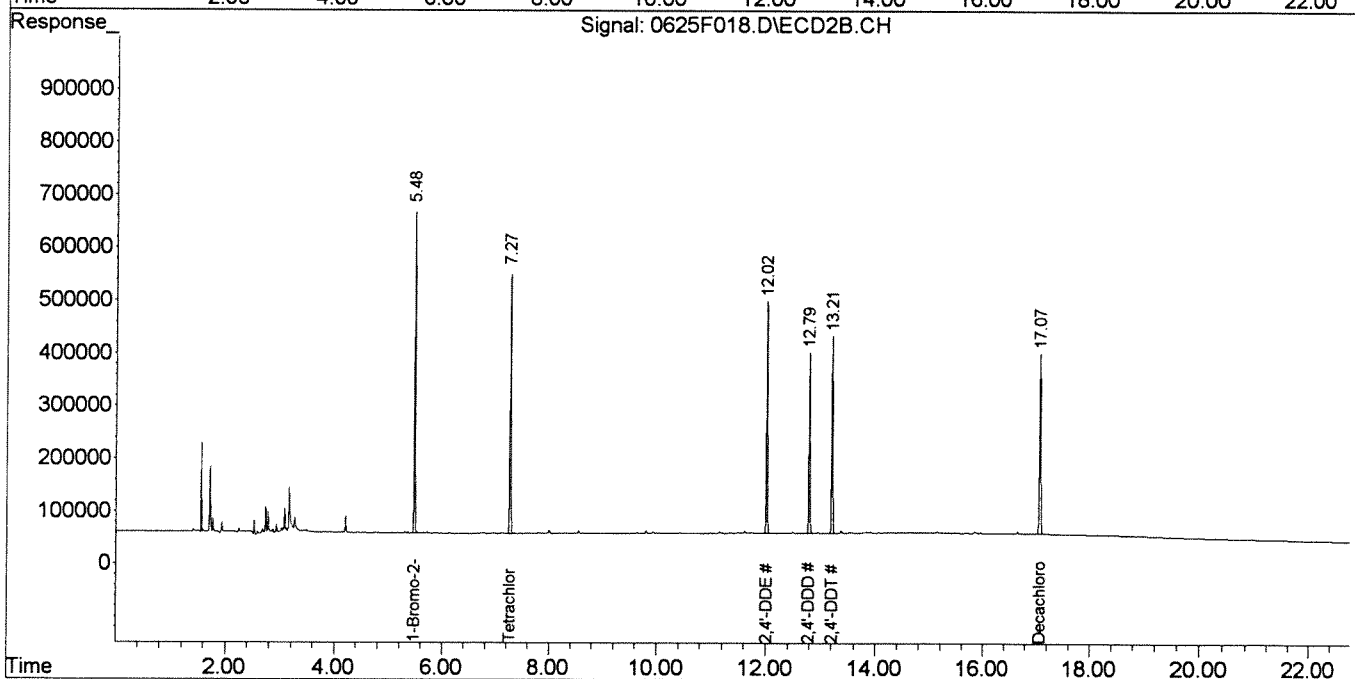
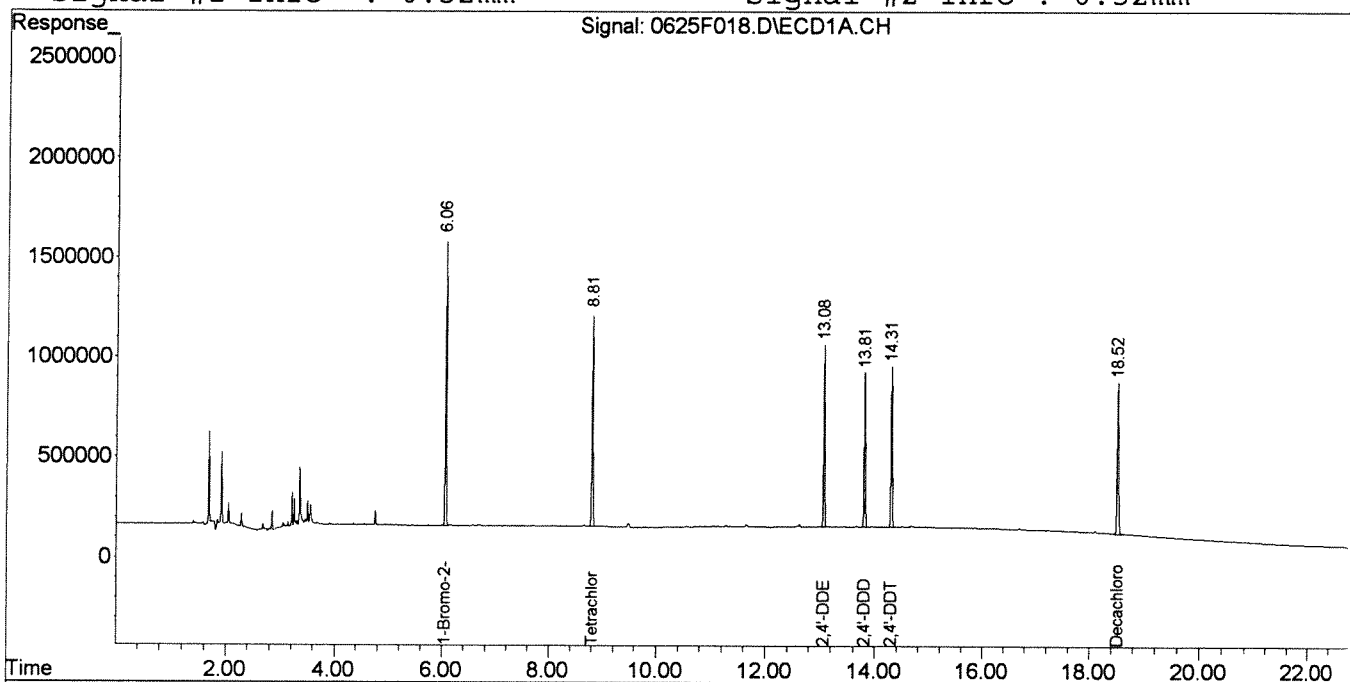
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.48	2020577	772421	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.27	1736164	728486	71.989	71.469
28) s Decachlorobiphen	18.52	17.07	1459260	590137	68.434	68.303
Target Compounds						
25) 2,4'-DDE	13.08	12.02	1366034	609379	80.902	89.246
26) 2,4'-DDD	13.81	12.79	1219129	510906	79.310	82.133
27) 2,4'-DDT	14.31	13.21	1349723	548078	84.290	82.942

Signal #1 : J:\GC23\DATA\062514\0625F018.D\ECD1A.CH Vial: 17
 Signal #2 : J:\GC23\DATA\062514\0625F018.D\ECD2B.CH
 Acq On : 25 Jun 2014 10:26 pm Operator: SMURRAY
 Sample : KWG1405574-LCS3 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 13:31 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

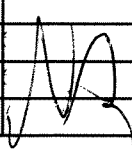
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Lab ID: KWG1405574-2
RunType: DLCS
Matrix: WATER

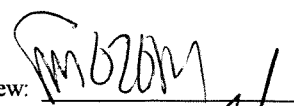
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Date Quantitated: 06/26/2014 13:31
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

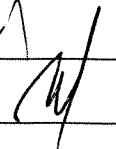
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	461.666666	87846.666666	
	1-Bromo-2-nitrobenzene {3}	0	2579.916666	90319.666666	
	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	

Primary Review: 

Secondary Review: 

Exception Report

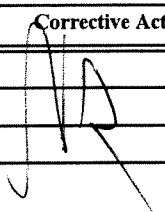
Data File: J:\GC23\DATA\062514\0625F019.D\0625F019C.D
Lab ID: KWG1405574-2
RunType: DLCS
Matrix: WATER

Date Acquired: 06/25/2014 22:55
Date Quantitated: 06/26/2014 13:31
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
	1-Bromo-2-nitrobenzene {4}	0	189.083333	24756.33333	

Primary Review: 

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F019.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F019.D\0625F019c.d	Vial:	18
Acqu Date:	06/25/2014 22:55	Quant Date:	06/26/2014 13:31
Run Type:	DLCS	Dilution:	1.0
Lab ID:	KWG1405574-2	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/11/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1405574	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1347307	Prep Date:	06/11/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F022.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10}	5.48 ^{-0.07}	1984664	756376	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{+0.02}	7.26 ^{+0.01}	1713439	720715	72.34	72.21	NR
				%Recovery =		72 OK	72 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{+0.01}	17.06 ^{+0.01}	1432729	581100	68.40	68.68	NR
				%Recovery =		68 OK	69 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-BHC			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	0.00031U	0.00031U	0.00031U
1	beta-BHC			0d	0d	0.0000	0.0000	0.00083U	0.00083U	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	delta-BHC			0d	0d	0.0000	0.0000	0.00057U	0.00057U	NR
1	Heptachlor			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Aldrin			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	Isodrin			0d	0d	0.0000	0.0000	0.00056U	0.00056U	0.00056U
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F019.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F019.D\0625F019c.d	Vial:	18
Acqu Date:	06/25/2014 22:55	Quant Date:	06/26/2014 13:31
Run Type:	DLCS	Dilution:	1.0
Lab ID:	KWG1405574-2	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR
1	Endosulfan I			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000	0.0040U	0.0040U	NR
1	Dieldrin			0d	0d	0.0000	0.0000	0.00035U	0.00035U	NR
1	4,4'-DDE			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Endrin			0d	0d	0.0000	0.0000	0.00068U	0.00068U	NR
1	Endosulfan II			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	4,4'-DDD			0d	0d	0.0000	0.0000	0.0015U	0.0015U	NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000	0.00046U	0.00046U	NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000	0.00047U	0.00047U	0.00047U
1	4,4'-DDT			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	Endrin Ketone			0d	0d	0.0000	0.0000	0.00066U	0.00066U	NR
1	Methoxychlor			0d	0d	0.0000	0.0000	0.00093U	0.00093U	NR
1	2,4'-DDE	13.08 ^{+0.01}	12.01 ^{+0.01}	1320676	590985	79.63	88.39	0.159	0.177	0.159
1	2,4'-DDD	13.81 ^{+0.01}	12.79 ^{+0.01}	1173203	491468	77.70	80.68	0.155	0.161	0.155
1	2,4'-DDT	14.30	13.21 ^{+0.01}	1315660	533184	83.65	82.40	0.167	0.165	0.165
	Toxaphene			0	0	0.0000	0.0000	0.0510U	0.0510U	NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {2}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {3}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {4}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {5}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {6}			0d	0d	0.0000	0.0000	0.051U	0.051U	
	Chlordane			0	0	0.0000	0.0000	0.0220U	0.0220U	NR
3	Chlordane {1}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {2}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {3}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {4}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {5}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {6}			0d	0d	0.0000	0.0000	0.022U	0.022U	
4	Chlorpyrifos			0d	0d	0.0000	0.0000	0.00083U	0.00083U	0.00083U
4	Oxychlordane			0d	0d	0.0000	0.0000	0.0010U	0.0010U	NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000	0.00060U	0.00060U	NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000	0.00092U	0.00092U	NR
4	Mirex			0d	0d	0.0000	0.0000	0.00081U	0.00081U	NR
4	Hexachloroethane			0d	0d	0.0000	0.0000	0.0012U	0.0012U	0.0012U
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000	0.0019U	0.0019U	0.0019U
4	Alachlor			0d	0d	0.0000	0.0000			

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 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F019.D\ECD1A.CH Vial: 18
 Signal #2 : J:\GC23\DATA\062514\0625F019.D\ECD2B.CH
 Acq On : 25 Jun 2014 10:55 pm Operator: SMURRAY
 Sample : KWG1405574-DLCS4 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:00 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

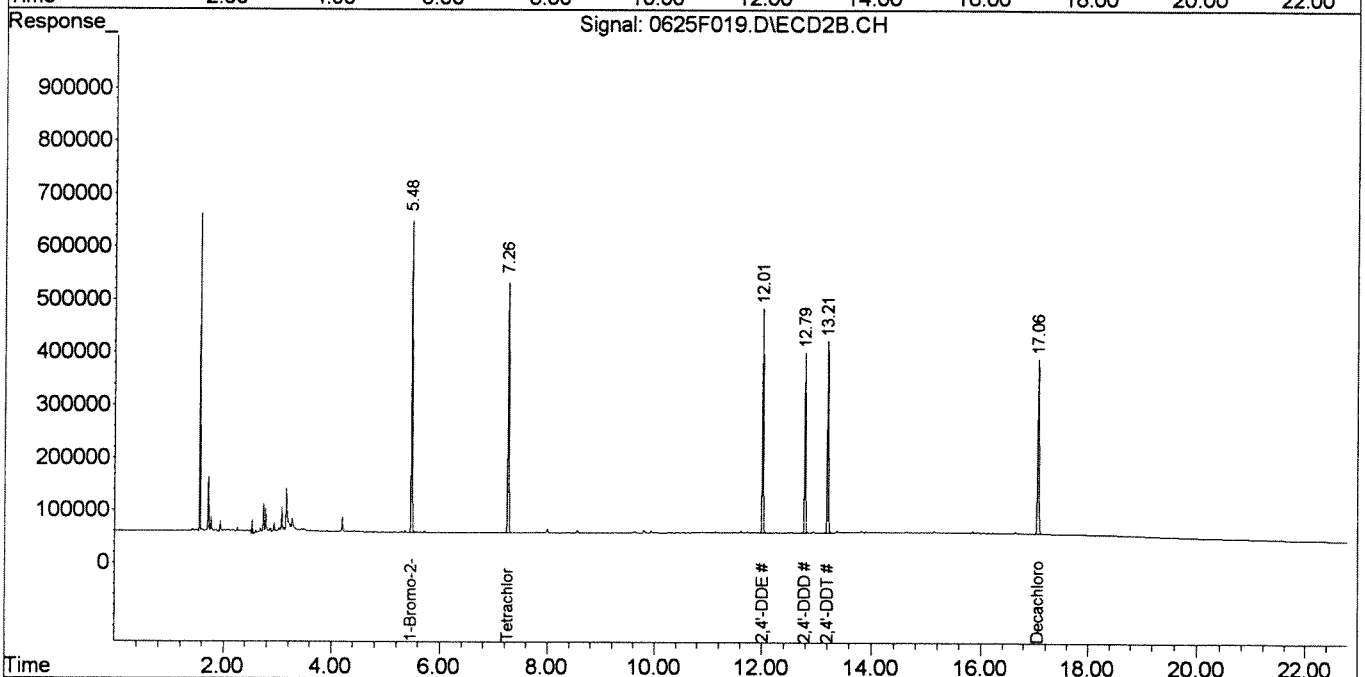
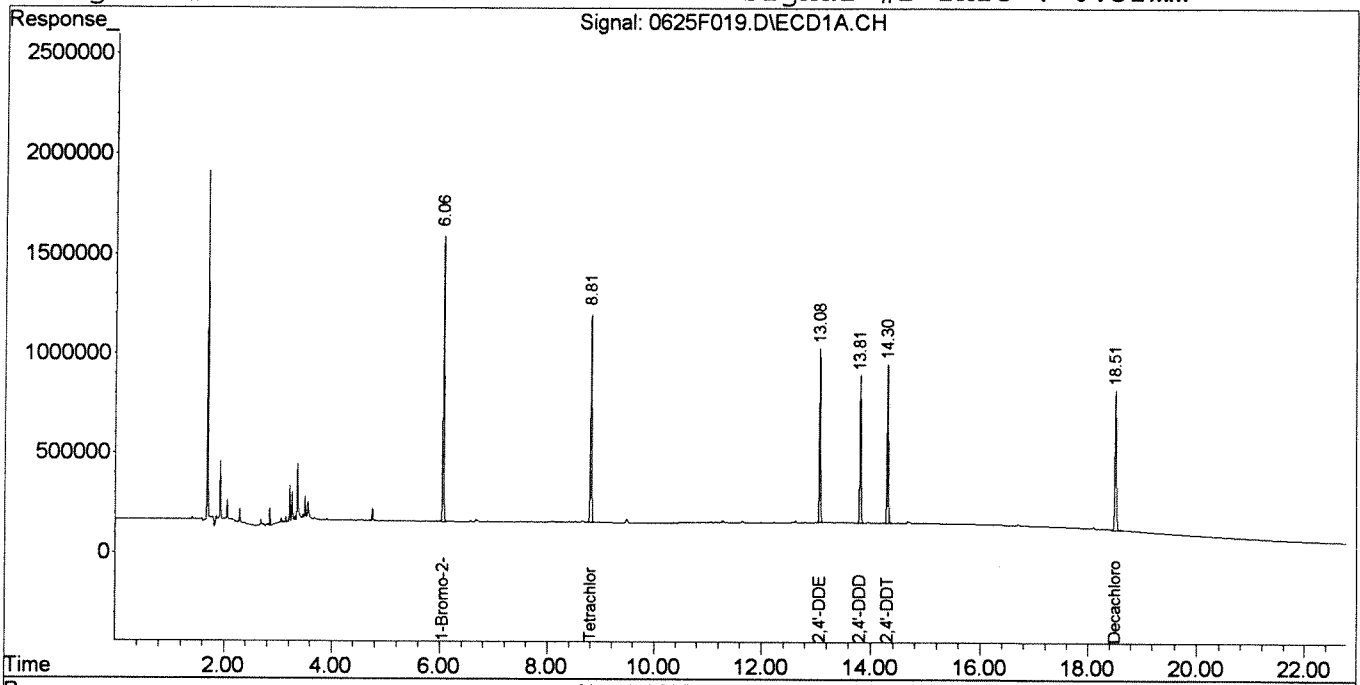
Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.48	1984664	756376	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.26	1713439	720715	72.336	72.206
28) s Decachlorobiphen	18.51	17.06	1432729	581100	68.404	68.683
Target Compounds						
25) 2,4'-DDE	13.08	12.01	1320676	590985	79.631	88.388
26) 2,4'-DDD	13.81	12.79	1173203	491468	77.703	80.684
27) 2,4'-DDT	14.30	13.21	1315660	533184	83.650	82.399

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\062514\0625F019.D\ECD1A.CH Vial: 18
Signal #2 : J:\GC23\DATA\062514\0625F019.D\ECD2B.CH
Acq On : 25 Jun 2014 10:55 pm Operator: SMURRAY
Sample : KWG1405574-DLCS4 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 13:31 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration
DataAcq Meth : PEST1UL.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

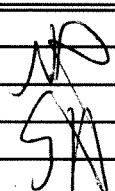
Data File: J:\GC23\DATA\062514\0625F020.D
Lab ID: KWG1405574-1
RunType: LCS
Matrix: WATER

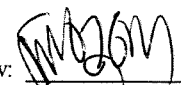
Date Acquired: 06/25/2014 23:25
Date Quantitated: 06/26/2014 13:33
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

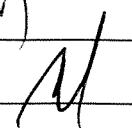
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {2}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.06	NA	NA	

Primary Review: 

Secondary Review: 

Exception Report

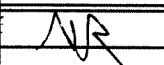
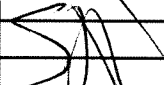
Data File: J:\GC23\DATA\062514\0625F020.D\0625F020C.D
Lab ID: KWG1405574-1
RunType: LCS
Matrix: WATER

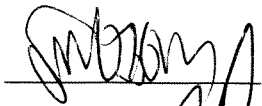
Date Acquired: 06/25/2014 23:25
Date Quantitated: 06/26/2014 13:33
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene {4}	0	5189.083333	24756.33333	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.47	NA	NA	

Primary Review: 

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F020.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F020.D\0625F020c.d	Vial:	19
Acqu Date:	06/25/2014 23:25	Quant Date:	06/26/2014 13:33
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1405574-1	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/11/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1405574	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1347306	Prep Date:	06/11/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F022.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10c}	5.47 ^{-0.09c}	2066006	788747	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.06 ^{+0.14c}	5.47 ^{+0.08c}	2066006	788747	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.06 ^{+0.06c}	5.47 ^{+0.03c}	2066006	788747	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt	
1	Tetrachloro-m-xylene	8.81 ^{+0.02}	7.26 ^{+0.01}	1855224	776613	75.27	74.61	NR	
						%Recovery =	75 OK	75 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{+0.01}	17.06 ^{+0.01}	1345476	555092	61.34	62.92	NR	
						%Recovery =	61 OK	63 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-BHC			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	0.00031U	0.00031U	0.00031U
1	beta-BHC			0d	0d	0.0000	0.0000	0.00083U	0.00083U	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	delta-BHC			0d	0d	0.0000	0.0000	0.00057U	0.00057U	NR
1	Heptachlor			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Aldrin			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	Isodrin			0d	0d	0.0000	0.0000	0.00056U	0.00056U	0.00056U
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F020.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F020.D\0625F020c.d	Vial:	19
Acqu Date:	06/25/2014 23:25	Quant Date:	06/26/2014 13:33
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1405574-1	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR
1	Endosulfan I			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000	0.0040U	0.0040U	NR
1	Dieldrin			0d	0d	0.0000	0.0000	0.00035U	0.00035U	NR
1	4,4'-DDE			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Endrin			0d	0d	0.0000	0.0000	0.00068U	0.00068U	NR
1	Endosulfan II			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	4,4'-DDD			0d	0d	0.0000	0.0000	0.0015U	0.0015U	NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000	0.00046U	0.00046U	NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000	0.00047U	0.00047U	0.00047U
1	4,4'-DDT			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	Endrin Ketone			0d	0d	0.0000	0.0000	0.00066U	0.00066U	NR
1	Methoxychlor			0d	0d	0.0000	0.0000	0.00093U	0.00093U	NR
1	2,4'-DDE			0d	0d	0.0000	0.0000	0.00050U	0.00050U	NR
1	2,4'-DDD			0d	0d	0.0000	0.0000	0.00057U	0.00057U	NR
1	2,4'-DDT			0d	0d	0.0000	0.0000	0.00059U	0.00059U	NR
	Toxaphene			0	0	609.67	487.75	1.22	0.976	0.976
2	Toxaphene {1}	14.59 ^{-0.01}		76482m	0d	560.30	0.0000	1.12	0.051U	
2	Toxaphene {2}	14.66 ^{+0.01}	13.66	149129m	27501m	740.78	454.69	1.48	0.909	
2	Toxaphene {3}		13.93	0d	43049m	0.0000	527.60	0.051U	1.06	
2	Toxaphene {4}	14.84	14.28	164112	47340m	546.80	477.52	1.09	0.955	
2	Toxaphene {5}	15.19	14.66	174448	78409m	569.93	424.61	1.14	0.849	
2	Toxaphene {6}	16.07	14.87	255372m	74591m	630.52	554.35	1.26	1.11	
	Chlordane			0	0	482.12	471.35	0.964	0.943	0.943
3	Chlordane {1}	11.09 ^{-0.01}	9.57 ^{-0.01}	384051	133893	454.71	413.21	0.909	0.826	
3	Chlordane {2}	11.52 ^{-0.01}	9.93	684084	256329	486.91	496.63	0.974	0.993	
3	Chlordane {3}	12.11 ^{-0.01}	11.97 ^{-0.01}	402321	539959	464.46	469.12	0.929	0.938	
3	Chlordane {4}	13.31	12.02 ^{-0.01}	1518697	396004	469.96	572.98	0.940	1.15	
3	Chlordane {5}	13.38 ^{-0.01}	12.09	1022967	186160	428.43	481.31	0.857	0.963	
3	Chlordane {6}	13.46 ^{-0.01}	12.12 ^{-0.01}	1019556	370855	588.26	394.83	1.18	0.790	
4	Chlorpyrifos			0d	0d	0.0000	0.0000	0.00083U	0.00083U	0.00083U
4	Oxychlordane			0d	0d	0.0000	0.0000	0.0010U	0.0010U	NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000	0.00060U	0.00060U	NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000	0.00092U	0.00092U	NR
4	Mirex			0d	0d	0.0000	0.0000	0.00081U	0.00081U	NR
4	Hexachloroethane			0d	0d	0.0000	0.0000	0.0012U	0.0012U	0.0012U
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000	0.0019U	0.0019U	0.0019U
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
 Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
 Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
 Sample : KWG1405574-LCS5 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:02 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

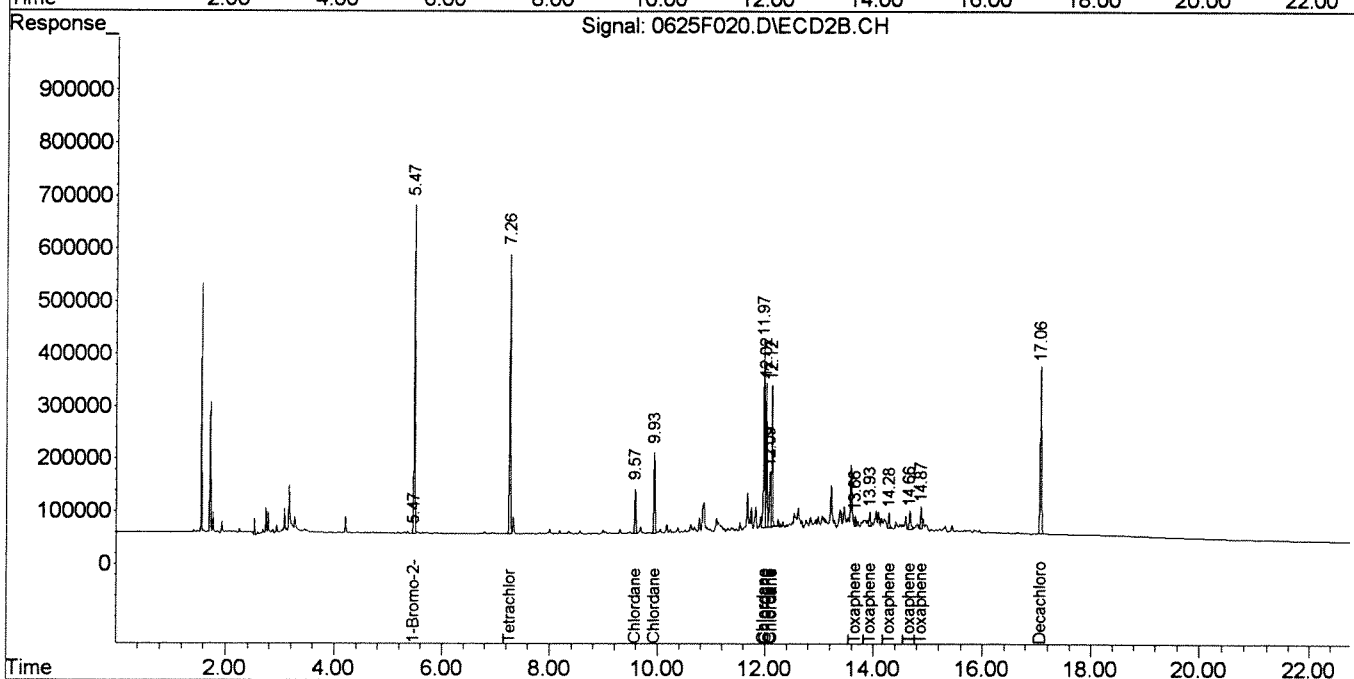
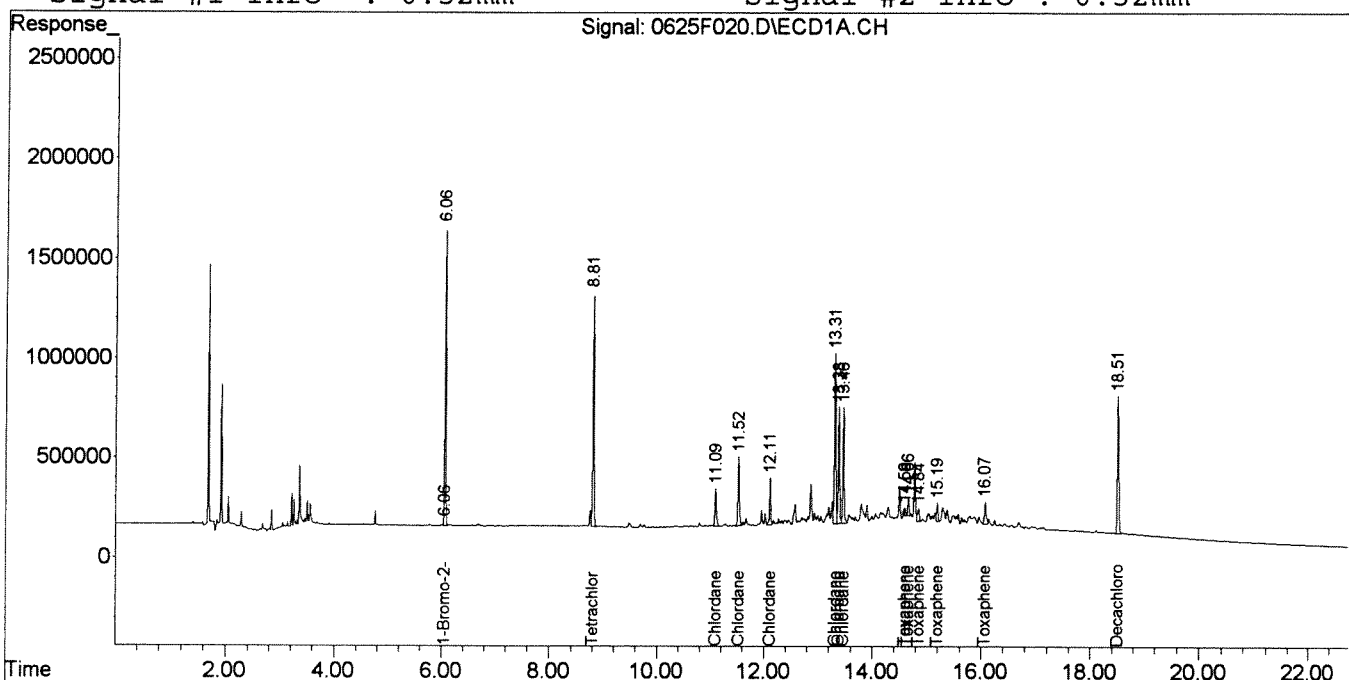
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.47	2066006	788747	100.000	100.000
29) 1-Bromo-2-nitrob	6.06	5.47	2066006	788747	100.000	100.000
36) 1-Bromo-2-nitrob	6.06	5.47	2066006	788747	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.26	1855224	776613	75.266	74.613
28) s Decachlorobiphen	18.51	17.06	1345476	555092	61.344	62.917
Target Compounds						
30) Toxaphene	14.59	0.00	76482	0	560.296m	N.D. d#
31) Toxaphene {2}	14.66	13.66	149129	27501	740.784m	454.689m#
32) Toxaphene {3}	0.00	13.93	0	43049	N.D. d	527.596m
33) Toxaphene {4}	14.84	14.28	164112	47340	546.803	477.516m
34) Toxaphene {5}	15.19	14.66	174448	78409	569.927	424.610m#
35) Toxaphene {6}	16.07	14.87	255372	74591	630.516m	554.353m
37) Chlordane	11.09	9.57	384051	133893	454.710	413.214
38) Chlordane {2}	11.52	9.93	684084	256329	486.907	496.627
39) Chlordane {3}	12.11	11.97	402321	539959	464.463	469.120
40) Chlordane {4}	13.31	12.02	1518697	396004	469.957	572.984
41) Chlordane {5}	13.38	12.09	1022967	186160	428.433	481.307
42) Chlordane {6}	13.46	12.12	1019556	370855	588.256	394.830 #

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
 Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
 Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
 Sample : KWG1405574-LCS5 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 13:33 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

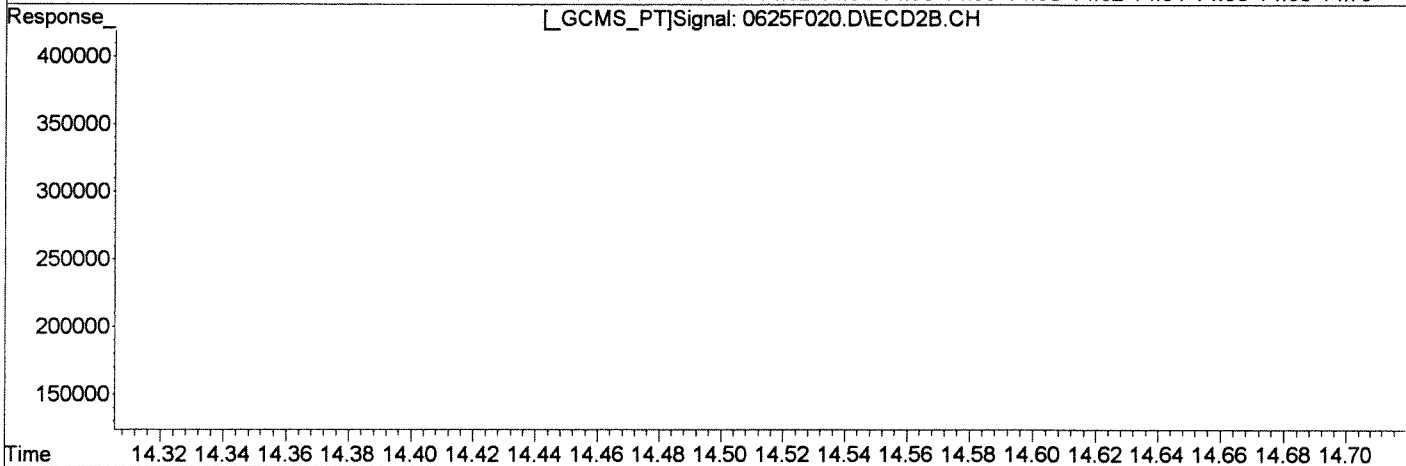
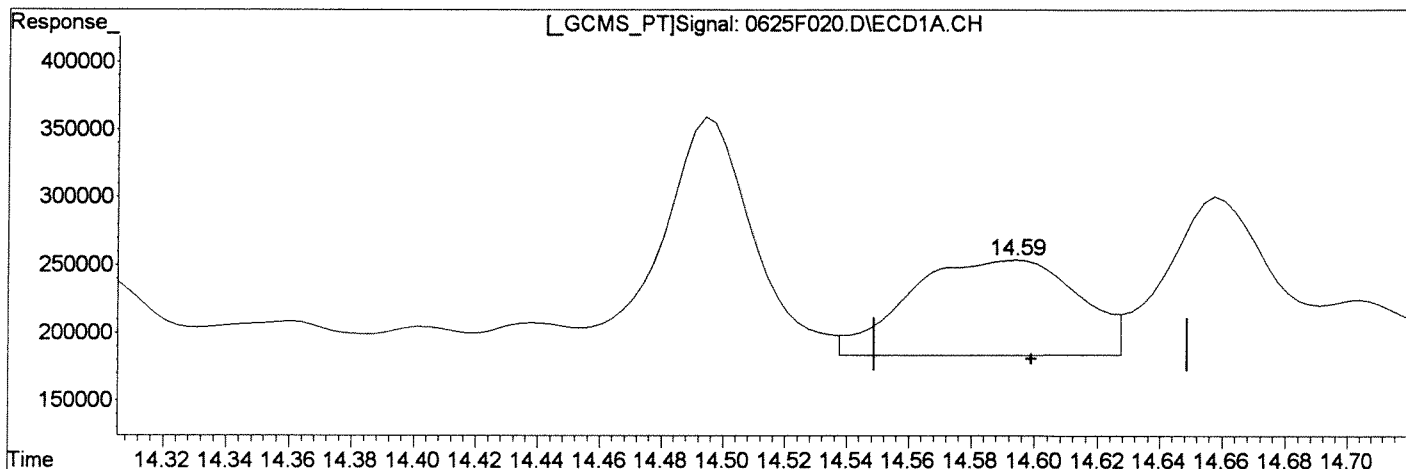
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
Sample : KWG1405574-LCS5 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

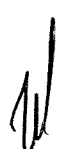
Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH

Retention Time (min)	Response	Concentration (ug/L)
14.59	266331	1951.102
0.00	0	0.000

Manual Integration:
Before
06/26/14



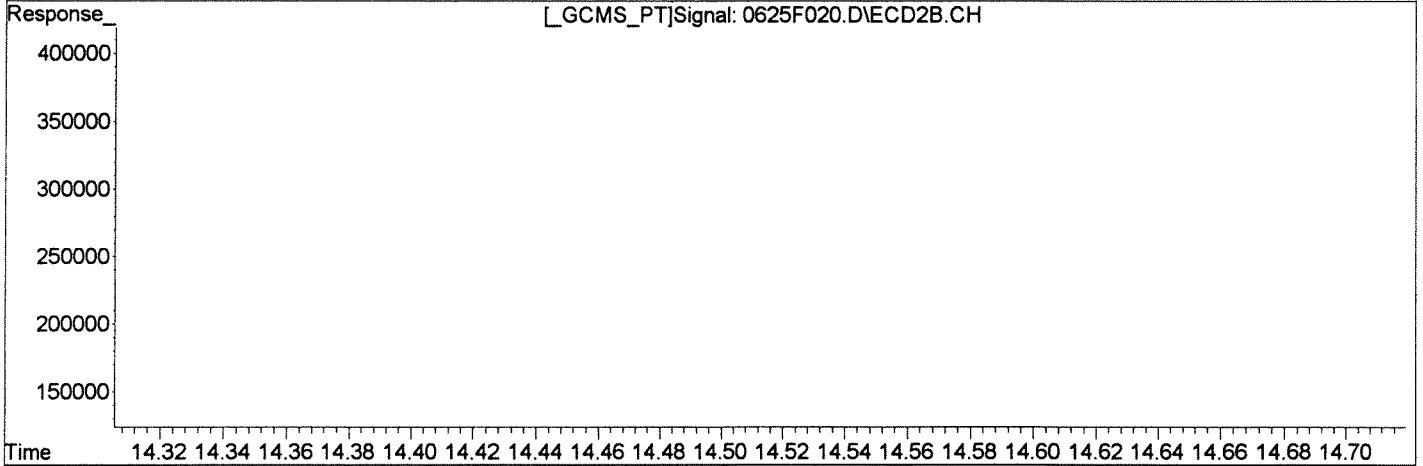
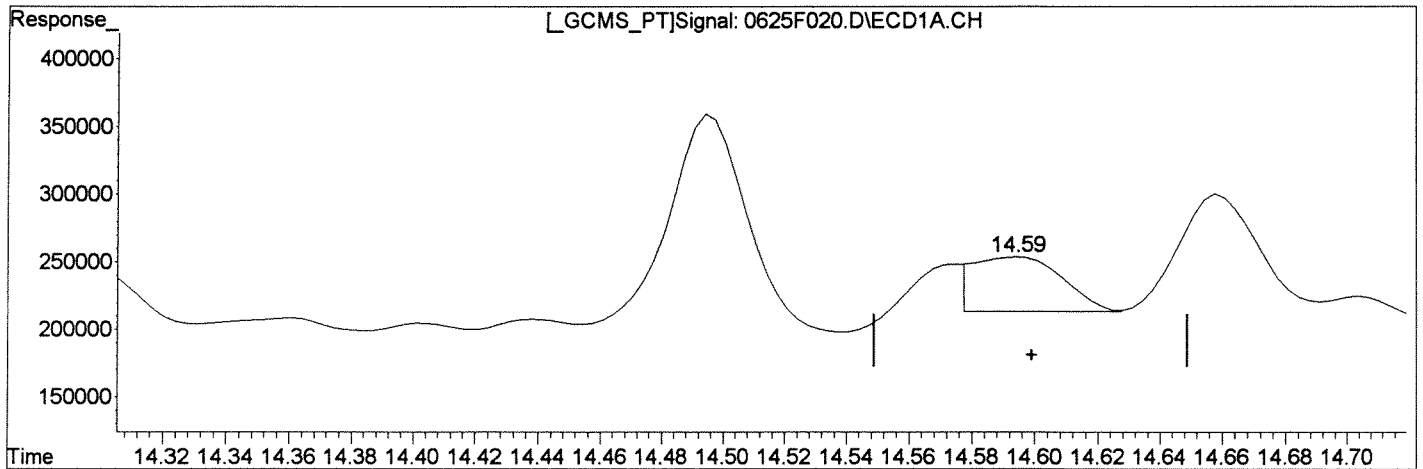
(+) = Expected Retention Time
0625F020.D GC23-031714-8081.M

Thu Jun 26 13:32:19 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
Sample : KWG1405574-LCS5 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH	
(30) Toxaphene	Manual Integration:
14.59min 560.296ug/L m	After
response 76482	Baseline/Shoulder
	06/26/14
(30) Toxaphene #2	
0.00min 0.000ug/L d	
response 0	

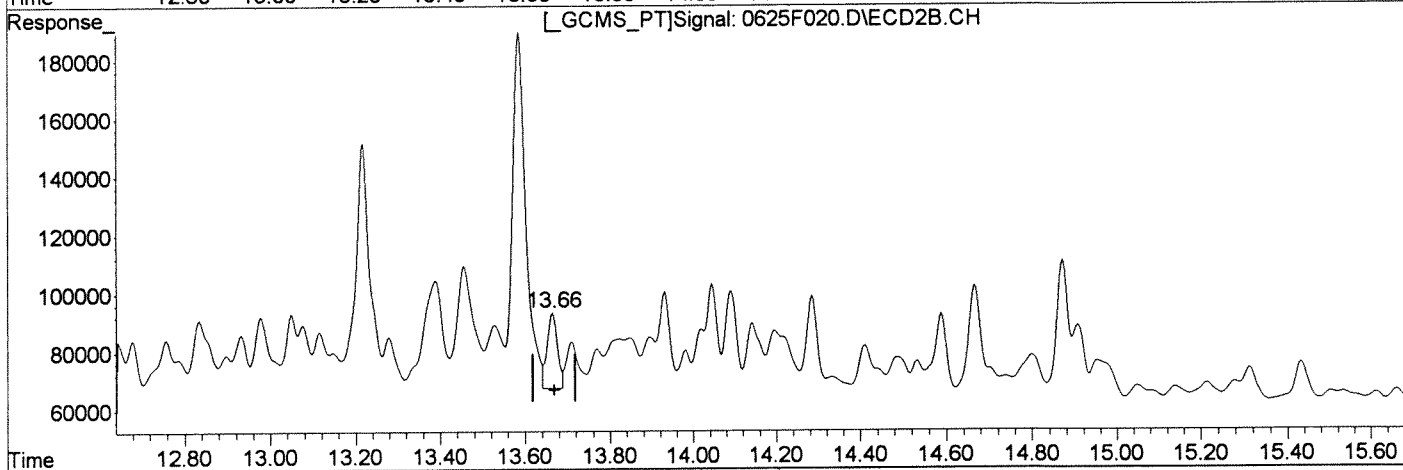
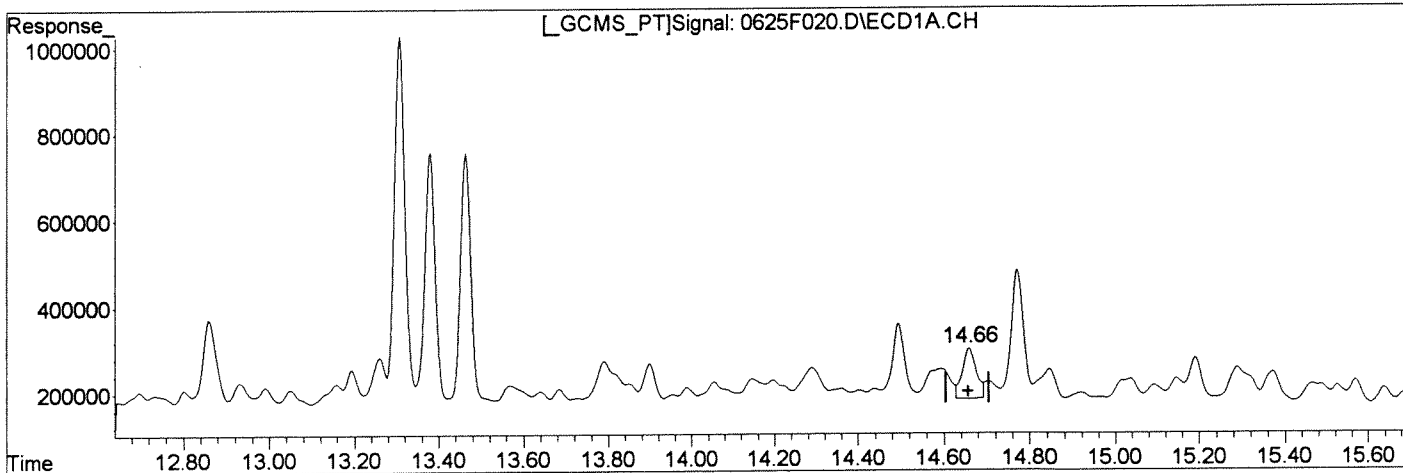
(+) = Expected Retention Time
0625F020.D GC23-031714-8081.M

Thu Jun 26 13:32:22 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
Sample : KWG1405574-LCS5 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH

(31) Toxaphene {2}	Manual Integration:
14.66min 1315.999ug/L	Before
response 264927	06/26/14
(31) Toxaphene {2} #2	
13.66min 715.986ug/L	
response 43305	

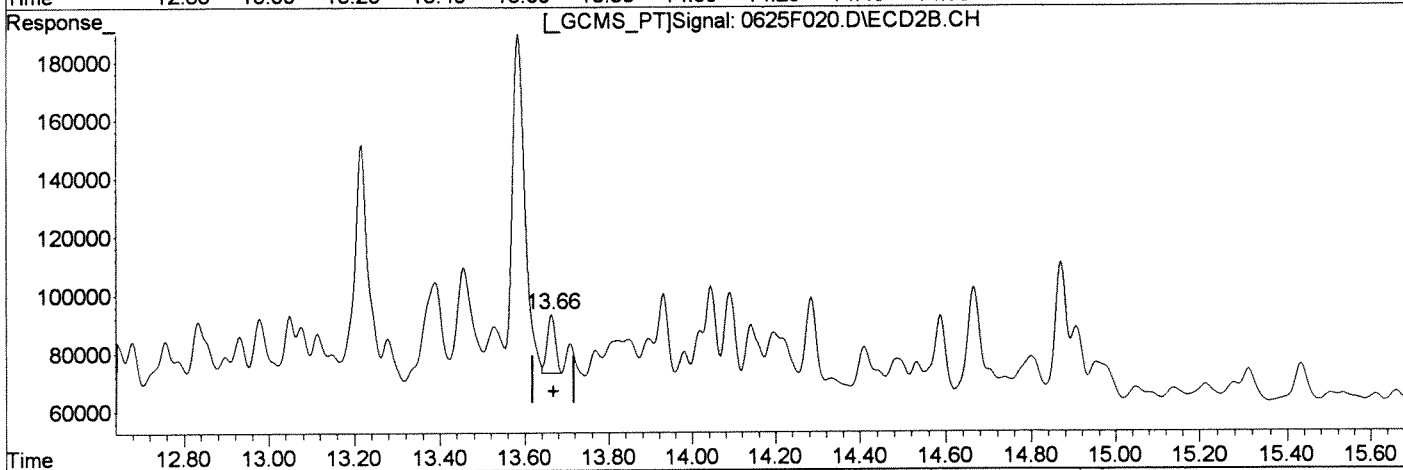
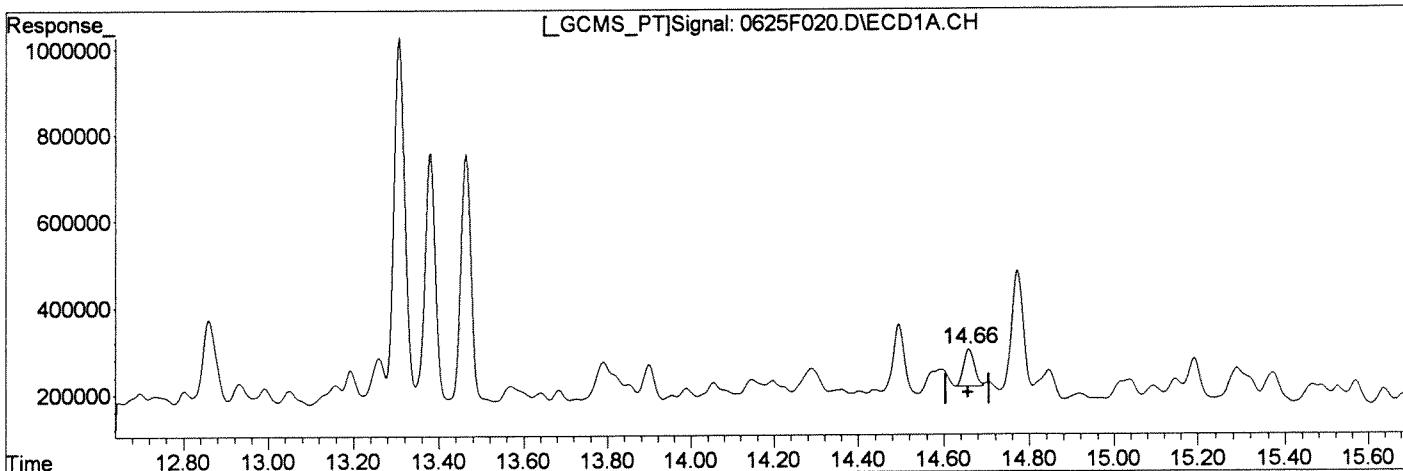
(+) = Expected Retention Time
0625F020.D GC23-031714-8081.M

Thu Jun 26 13:32:24 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
Sample : KWG1405574-LCS5 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH

(31) Toxaphene {2}	Manual Integration:
14.66min 740.784ug/L m	After
response 149129	Baseline/Shoulder
	06/26/14
(31) Toxaphene {2} #2	
13.66min 454.689ug/L m	
response 27501	

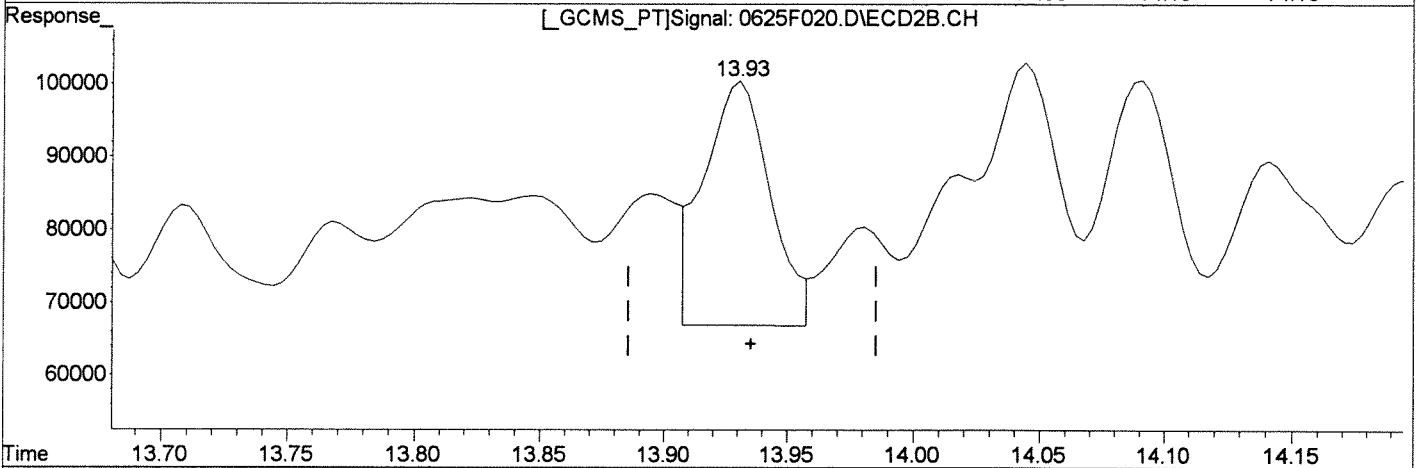
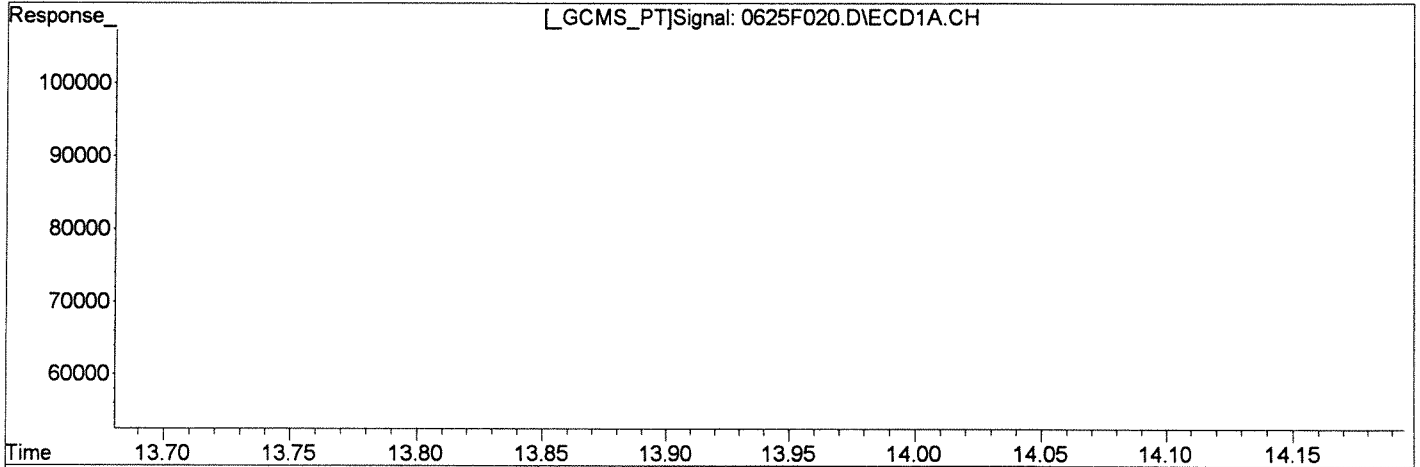
(+) = Expected Retention Time
0625F020.D GC23-031714-8081.M

Thu Jun 26 13:32:33 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
Sample : KWG1405574-LCS5 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH

(32) Toxaphene {3}	Manual Integration:
0.00min 0.000ug/L d	Before
response 0	06/26/14
(32) Toxaphene {3} #2	
13.93min 758.677ug/L	
response 61904	

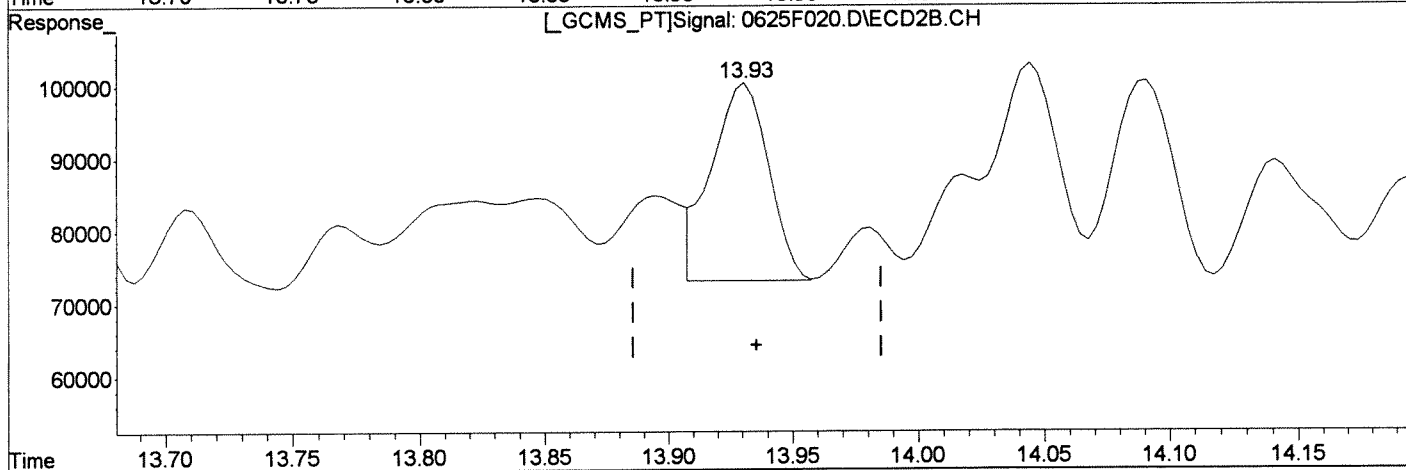
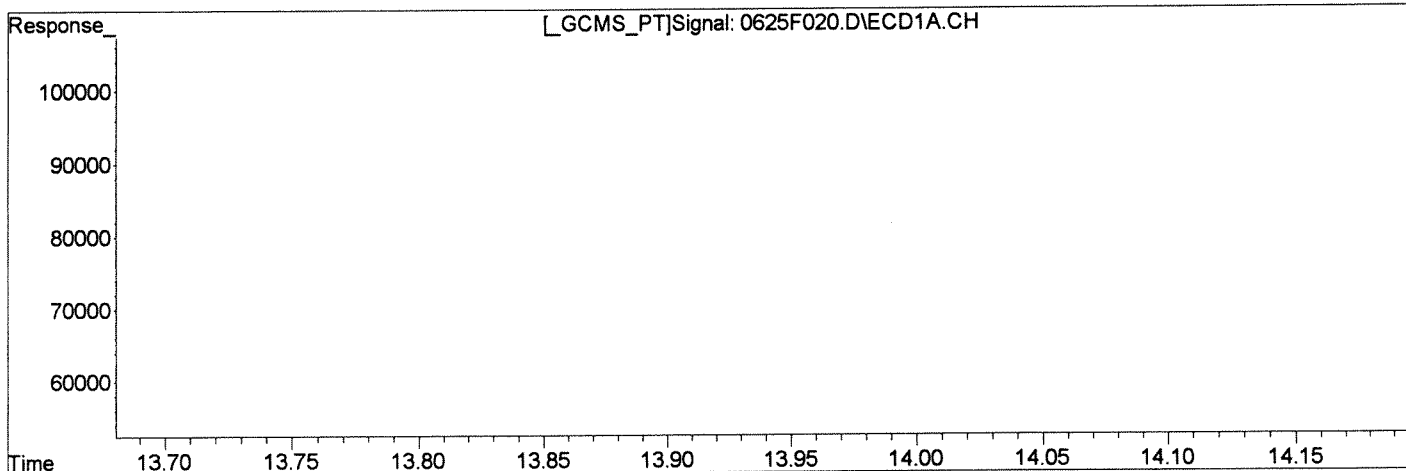
(+) = Expected Retention Time
0625F020.D GC23-031714-8081.M

Thu Jun 26 13:32:36 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
Sample : KWG1405574-LCS5 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH	
(32) Toxaphene {3}	Manual Integration:
0.00min 0.000ug/L d	After
response 0	Baseline/Shoulder
	06/26/14
(32) Toxaphene {3} #2	
13.93min 527.596ug/L m	
response 43049	

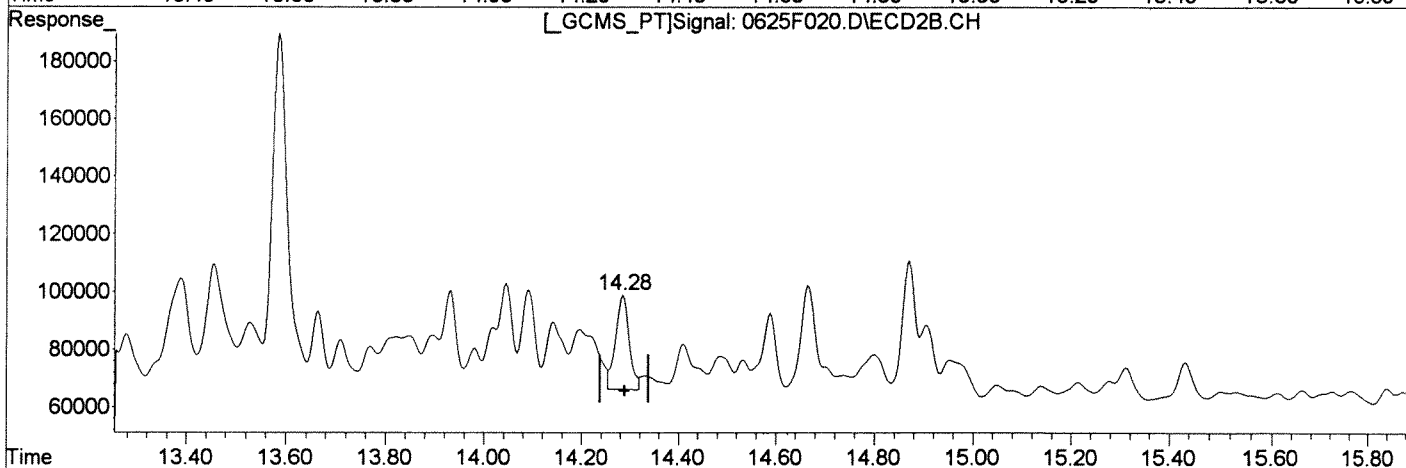
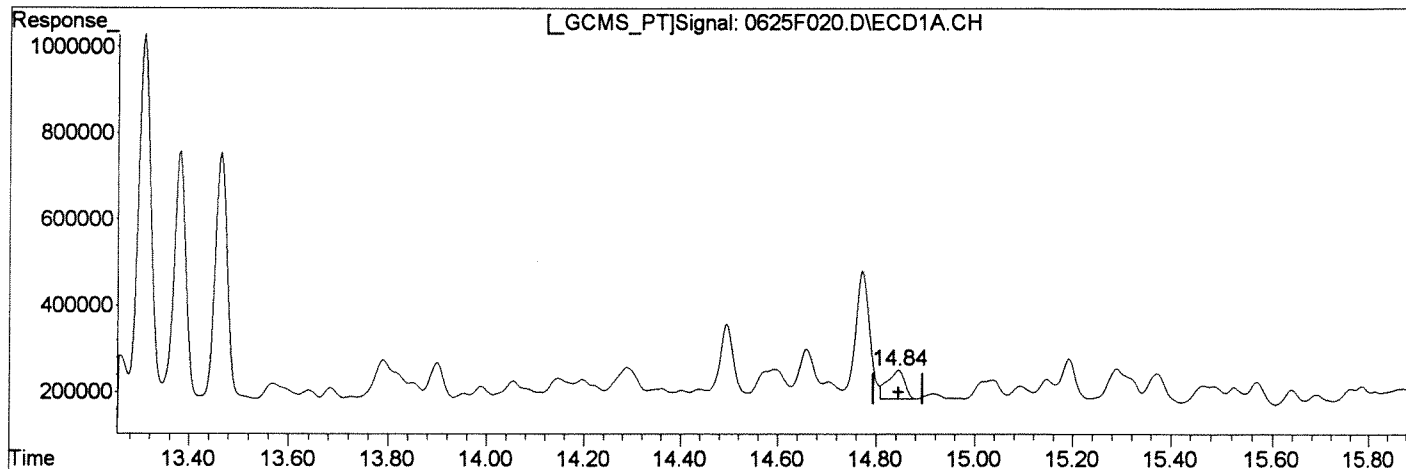
(+) = Expected Retention Time
0625F020.D GC23-031714-8081.M

Thu Jun 26 13:32:40 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
Sample : KWG1405574-LCS5 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH	
(33) Toxaphene {4}	Manual Integration:
14.84min 546.803ug/L	Before
response 164112	06/26/14
(33) Toxaphene {4} #2	
14.28min 634.923ug/L	
response 62945	

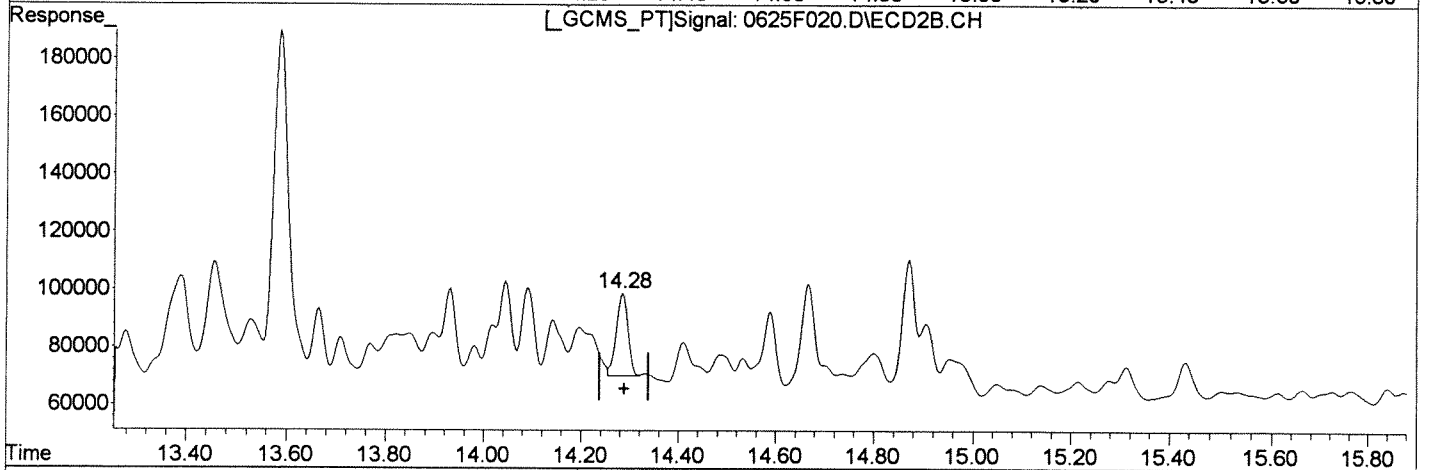
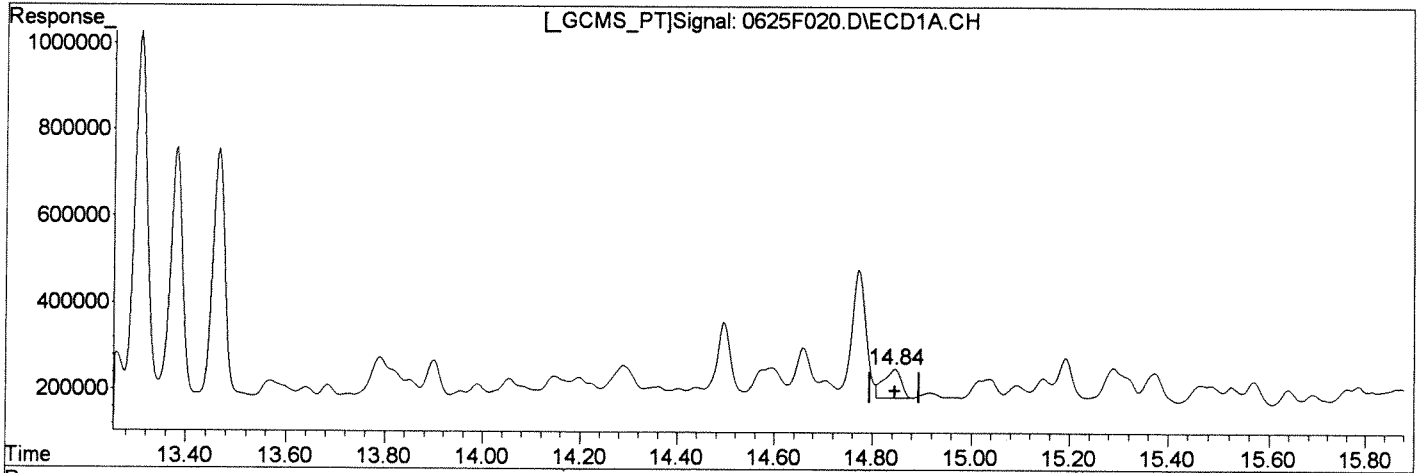
(+) = Expected Retention Time
0625F020.D GC23-031714-8081.M

Thu Jun 26 13:32:42 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
Sample : KWG1405574-LCS5 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH

(33) Toxaphene {4}	Manual Integration:
14.84min 546.803ug/L	After
response 164112	Baseline/Shoulder
	06/26/14
(33) Toxaphene {4} #2	
14.28min 477.516ug/L m	
response 47340	

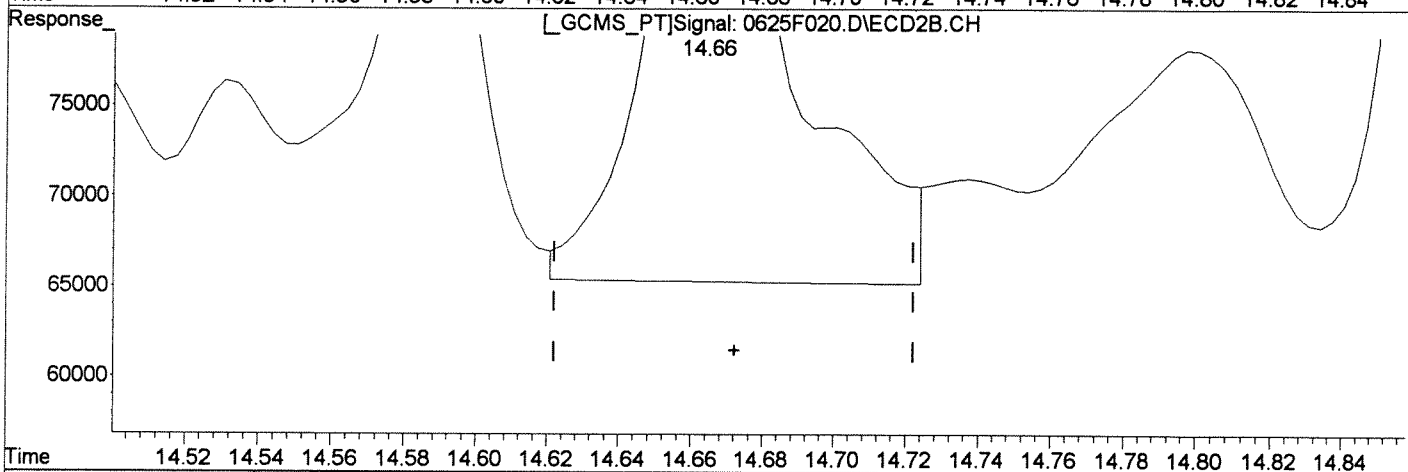
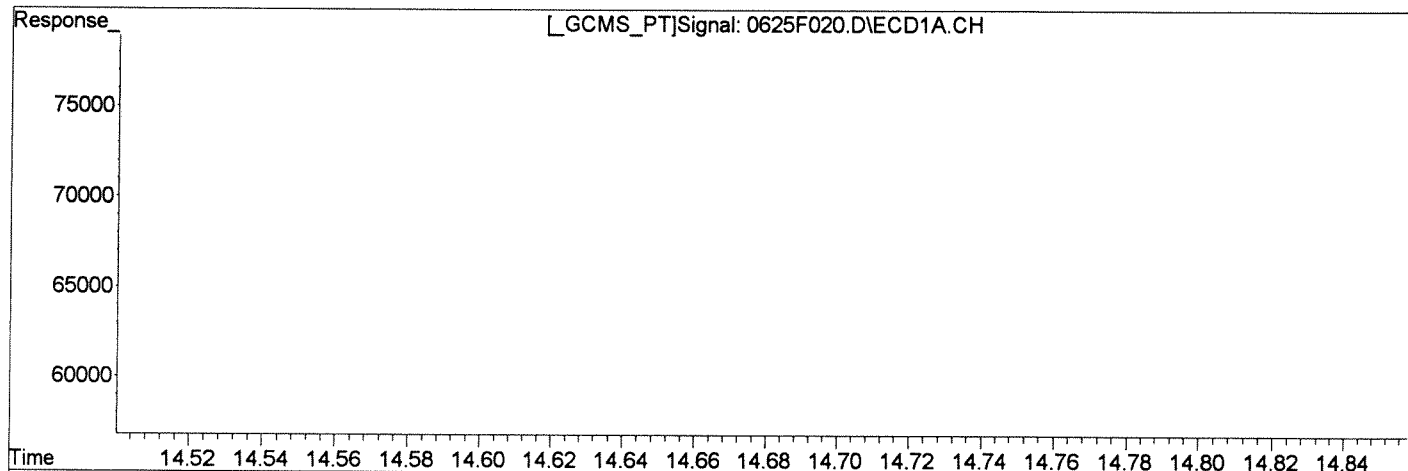
(+) = Expected Retention Time
0625F020.D GC23-031714-8081.M

Thu Jun 26 13:32:46 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
Sample : KWG1405574-LCS5 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH

(34) Toxaphene (5)	Manual Integration:
15.19min 569.927ug/L	Before
response 174448	06/26/14
(34) Toxaphene (5) #2	
14.66min 482.510ug/L	
response 89101	

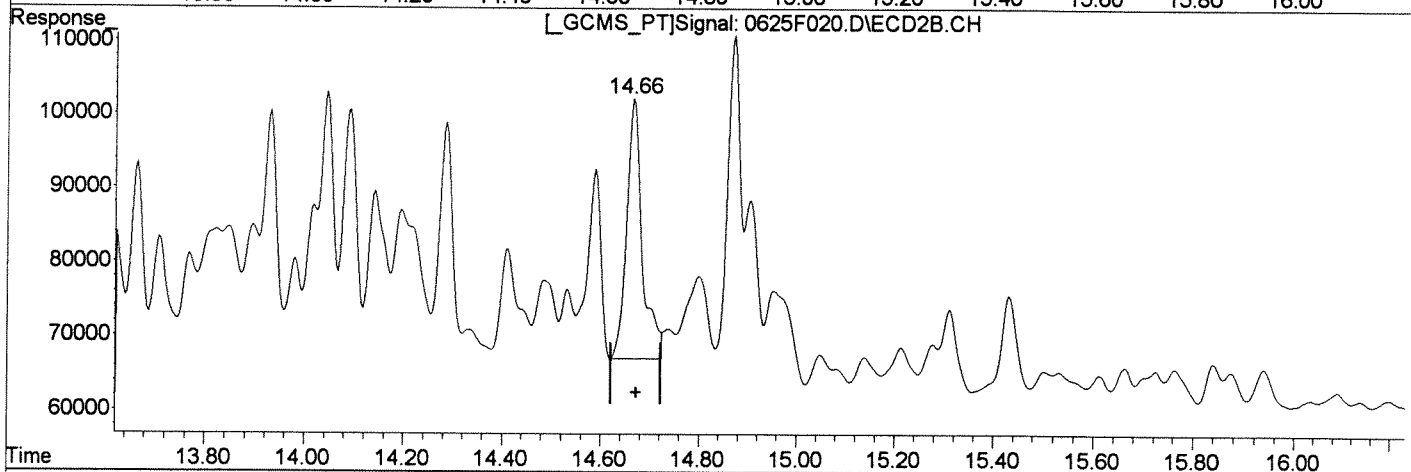
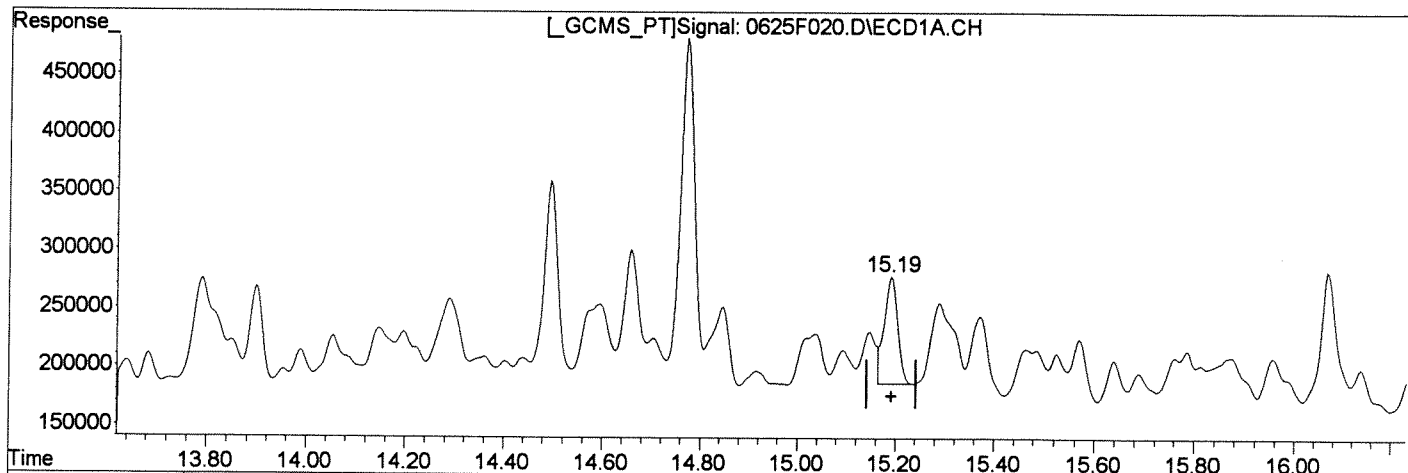
(+) = Expected Retention Time
0625F020.D GC23-031714-8081.M

Thu Jun 26 13:32:51 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
 Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
 Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
 Sample : KWG1405574-LCS5 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH

(34) Toxaphene {5}
 15.19min 569.927ug/L
 response 174448

(34) Toxaphene {5} #2
 14.66min 424.610ug/L m
 response 78409

Manual Integration:
 After
 Baseline/Shoulder
 06/26/14

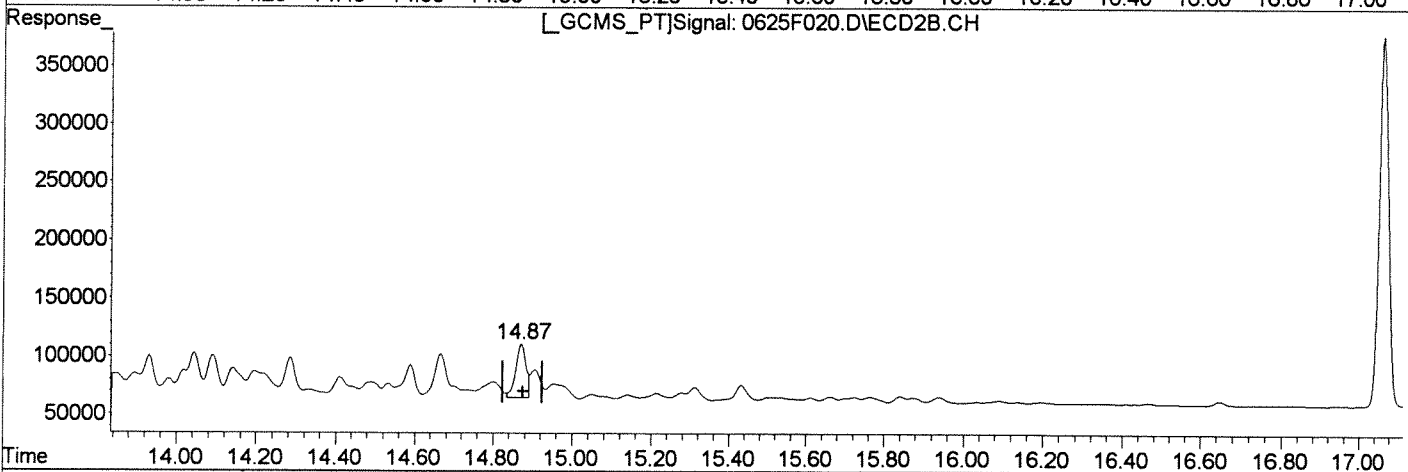
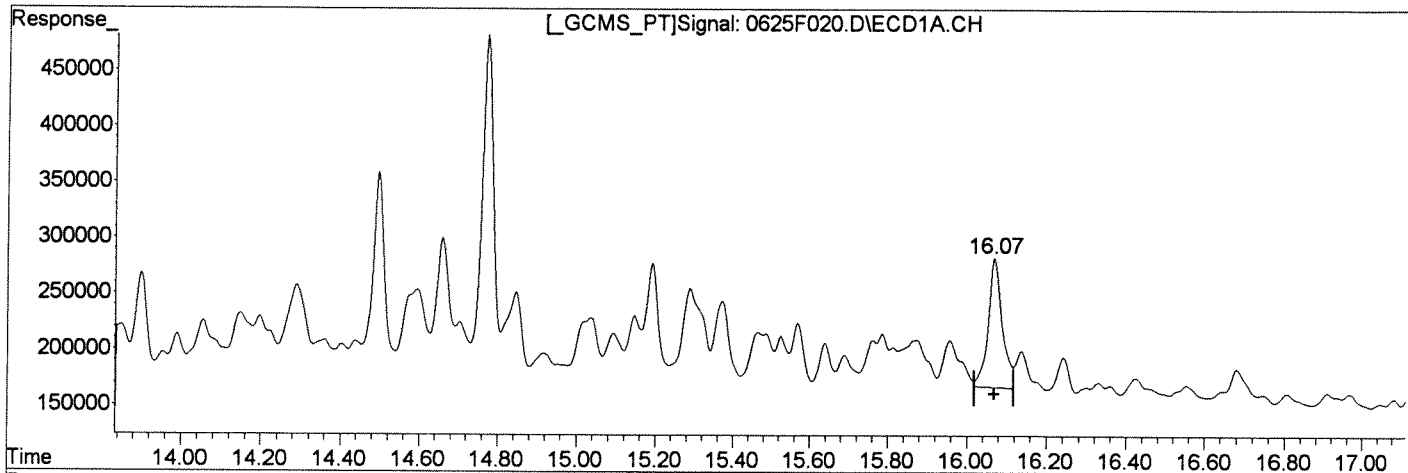
(+) = Expected Retention Time
 0625F020.D GC23-031714-8081.M

Thu Jun 26 13:32:56 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
Sample : KWG1405574-LCS5 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
16.07	708.401	286917
14.87	637.538	85784

Manual Integration:
Before
06/26/14

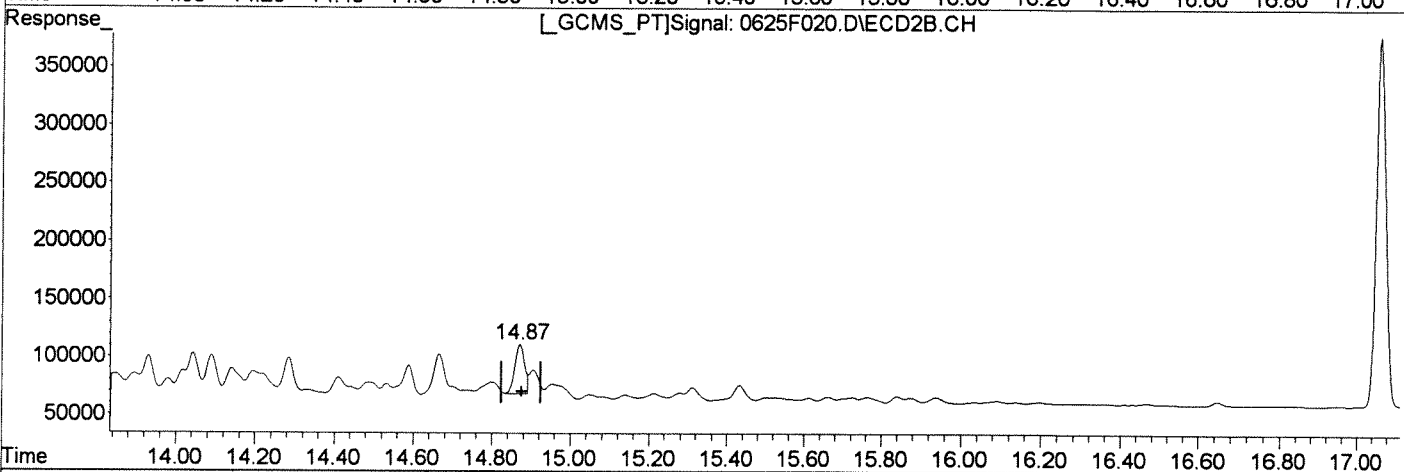
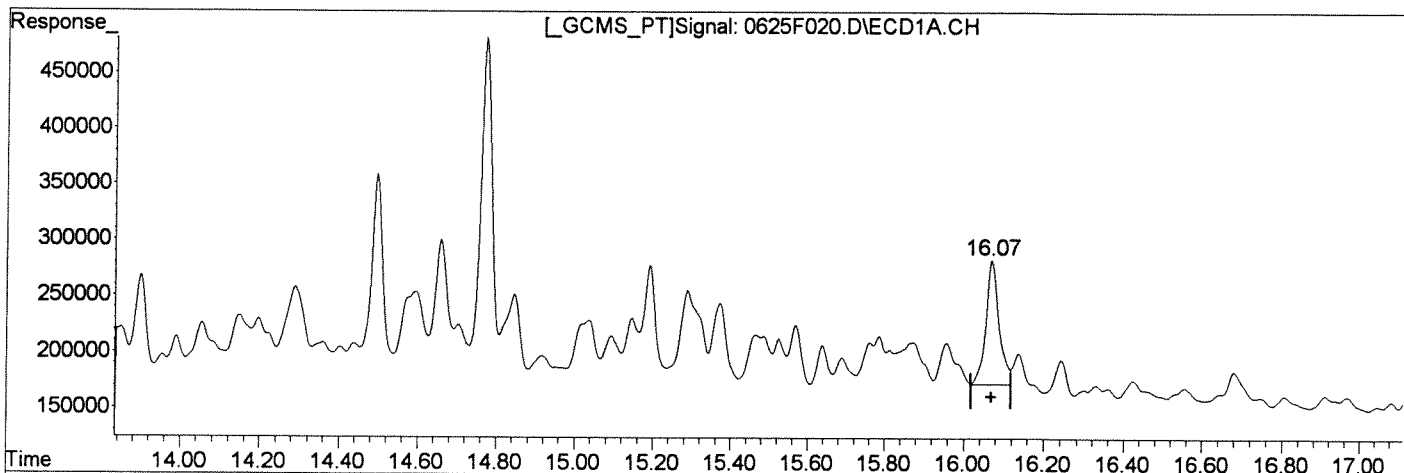
(+) = Expected Retention Time
0625F020.D GC23-031714-8081.M

Thu Jun 26 13:32:58 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F020.D\ECD1A.CH Vial: 19
Signal #2 : J:\GC23\DATA\062514\0625F020.D\ECD2B.CH
Acq On : 25 Jun 2014 11:25 pm Operator: SMURRAY
Sample : KWG1405574-LCS5 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F020.D\ECD1A.CH	
(35) Toxaphene {6}	Manual Integration:
16.07min 630.516ug/L m	After
response 255372	Baseline/Shoulder
	06/26/14
(35) Toxaphene {6} #2	
14.87min 554.353ug/L m	
response 74591	

(+) = Expected Retention Time
0625F020.D GC23-031714-8081.M

Thu Jun 26 13:33:12 2014

Exception Report

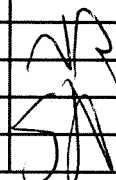
Data File: J:\GC23\DATA\062514\0625F021.D
Lab ID: KWG1405574-2
RunType: DLCS
Matrix: WATER

Date Acquired: 06/25/2014 23:54
Date Quantitated: 06/26/2014 13:34
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {2}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.06	NA	NA	

Primary Review: _____

Secondary Review: _____

Exception Report

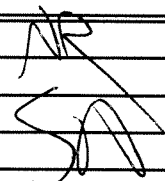
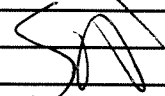
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Lab ID: KWG1405574-2
RunType: DLCS
Matrix: WATER

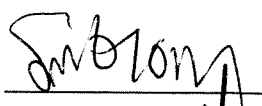
Date Acquired: 06/25/2014 23:54
Date Quantitated: 06/26/2014 13:34
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

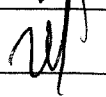
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene {4}	0	5189.083333	24756.33333	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.47	NA	NA	

Primary Review: 

Secondary Review: 

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F021.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F021.D\0625F021c.d	Vial:	20
Acqu Date:	06/25/2014 23:54	Quant Date:	06/26/2014 13:34
Run Type:	DLCS	Dilution:	1.0
Lab ID:	KWG1405574-2	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/11/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1405574	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1347307	Prep Date:	06/11/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F022.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10c}	5.47 ^{-0.09c}	2045426	770019	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.06 ^{+0.14c}	5.47 ^{+0.08c}	2045426	770019	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.06 ^{+0.06c}	5.47 ^{+0.03c}	2045426	770019	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.80 ^{+0.01}	7.26 ^{+0.01}	1753678	717728	71.83	70.63	NR
						%Recovery =	72 OK 71 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{+0.01}	17.06 ^{+0.01}	1612518	683858m	75.11	79.40	NR
						%Recovery =	75 OK 79 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	0.00031U	0.00031U	0.00031U
1	beta-BHC			0d	0d	0.0000	0.0000	0.00083U	0.00083U	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	delta-BHC			0d	0d	0.0000	0.0000	0.00057U	0.00057U	NR
1	Heptachlor			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Aldrin			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	Isodrin			0d	0d	0.0000	0.0000	0.00056U	0.00056U	0.00056U
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F021.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F021.D\0625F021c.d	Vial:	20
Acqu Date:	06/25/2014 23:54	Quant Date:	06/26/2014 13:34
Run Type:	DLCS	Dilution:	1.0
Lab ID:	KWG1405574-2	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR
1	Endosulfan I			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000	0.0040U	0.0040U	NR
1	Dieldrin			0d	0d	0.0000	0.0000	0.00035U	0.00035U	NR
1	4,4'-DDE			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Endrin			0d	0d	0.0000	0.0000	0.00068U	0.00068U	NR
1	Endosulfan II			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	4,4'-DDD			0d	0d	0.0000	0.0000	0.0015U	0.0015U	NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000	0.00046U	0.00046U	NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000	0.00047U	0.00047U	0.00047U
1	4,4'-DDT			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	Endrin Ketone			0d	0d	0.0000	0.0000	0.00066U	0.00066U	NR
1	Methoxychlor			0d	0d	0.0000	0.0000	0.00093U	0.00093U	NR
1	2,4'-DDE			0d	0d	0.0000	0.0000	0.00050U	0.00050U	NR
1	2,4'-DDD			0d	0d	0.0000	0.0000	0.00057U	0.00057U	NR
1	2,4'-DDT			0d	0d	0.0000	0.0000	0.00059U	0.00059U	NR
	Toxaphene			0	0	562.37	556.22	1.12	1.11	1.11
2	Toxaphene {1}	14.59 ^{-0.01}		62738m	0d	464.23	0.0000	0.928	0.051U	
2	Toxaphene {2}	14.66 ^{+0.01}		134964m	0d	677.17	0.0000	1.35	0.051U	
2	Toxaphene {3}		13.93	0d	58205	0.0000	730.69	0.051U	1.46	
2	Toxaphene {4}	14.84	14.28	157749	31671m	530.89	327.23	1.06	0.654	
2	Toxaphene {5}	15.19	14.67 ^{+0.01}	166926	73438	550.84	407.36	1.10	0.815	
2	Toxaphene {6}	16.07	14.87	236069m	99779	588.72	759.58	1.18	1.52	
	Chlordane			0	0	453.52	467.28	0.907	0.935	0.907
3	Chlordane {1}	11.09 ^{-0.01}	9.57 ^{-0.01}	368647	180119	440.40	569.40	0.881	1.14	
3	Chlordane {2}	11.52 ^{-0.01}	9.93	657100	232102	472.41	460.63	0.945	0.921	
3	Chlordane {3}	12.11 ^{-0.01}	11.98	365314	467466	424.05	416.02	0.848	0.832	
3	Chlordane {4}	13.31	12.02 ^{-0.01}	1427588	434428	446.21	643.87	0.892	1.29	
3	Chlordane {5}	13.38 ^{-0.01}	12.09	944079	146746	399.37	388.63	0.799	0.777	
3	Chlordane {6}	13.46 ^{-0.01}	12.12 ^{-0.01}	924300	298134	538.66	325.13	1.08	0.650	
4	Chlorpyrifos			0d	0d	0.0000	0.0000	0.00083U	0.00083U	0.00083U
4	Oxychlordane			0d	0d	0.0000	0.0000	0.0010U	0.0010U	NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000	0.00060U	0.00060U	NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000	0.00092U	0.00092U	NR
4	Mirex			0d	0d	0.0000	0.0000	0.00081U	0.00081U	NR
4	Hexachloroethane			0d	0d	0.0000	0.0000	0.0012U	0.0012U	0.0012U
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000	0.0019U	0.0019U	0.0019U
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
 Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
 Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
 Sample : KWG1405574-DLCS6 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:04 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

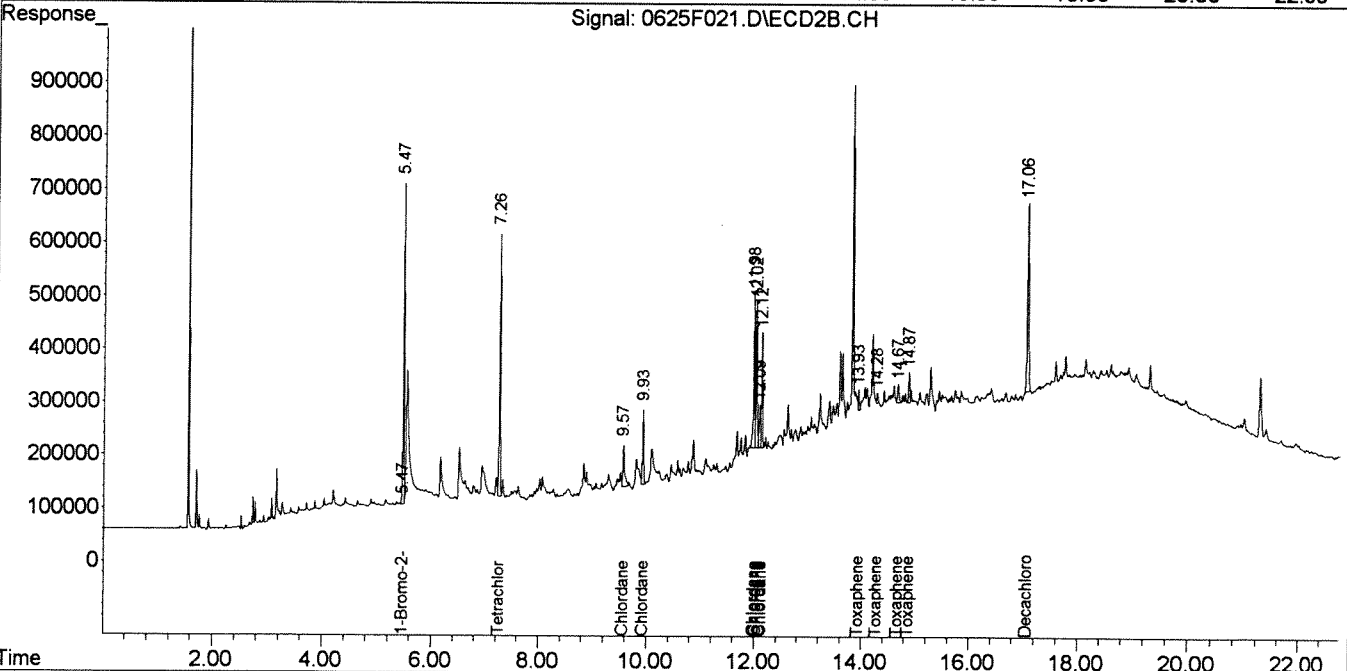
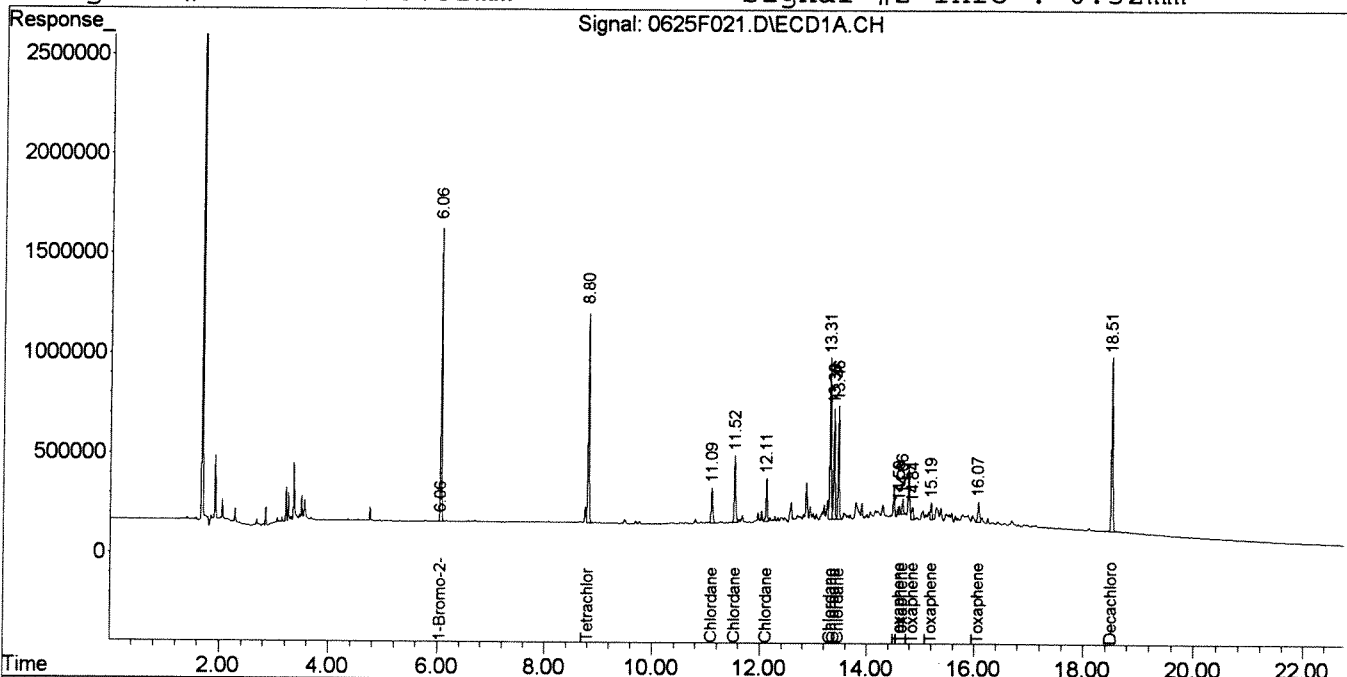
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.47	2045426	770019	100.000	100.000
29) 1-Bromo-2-nitrob	6.06	5.47	2045426	770019	100.000	100.000
36) 1-Bromo-2-nitrob	6.06	5.47	2045426	770019	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.80	7.26	1753678	717728	71.830	70.633
28) s Decachlorobiphen	18.51	17.06	1612518	683858	75.108	79.397m
Target Compounds						
30) Toxaphene	14.59	0.00	62738	0	464.234m	N.D. d#
31) Toxaphene {2}	14.66	0.00	134964	0	677.166m	N.D. d#
32) Toxaphene {3}	0.00	13.93	0	58205	N.D. d	730.693
33) Toxaphene {4}	14.84	14.28	157749	31671	530.891	327.233m#
34) Toxaphene {5}	15.19	14.67	166926	73438	550.840	407.363 #
35) Toxaphene {6}	16.07	14.87	236069	99779	588.721m	759.583 #
37) Chlordane	11.09	9.57	368647	180119	440.395	569.395 #
38) Chlordane {2}	11.52	9.93	657100	232102	472.406	460.625
39) Chlordane {3}	12.11	11.98	365314	467466	424.049	416.016
40) Chlordane {4}	13.31	12.02	1427588	434428	446.209	643.868 #
41) Chlordane {5}	13.38	12.09	944079	146746	399.372	388.632
42) Chlordane {6}	13.46	12.12	924300	298134	538.662	325.128 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
 Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
 Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
 Sample : KWG1405574-DLCS6 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 13:34 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

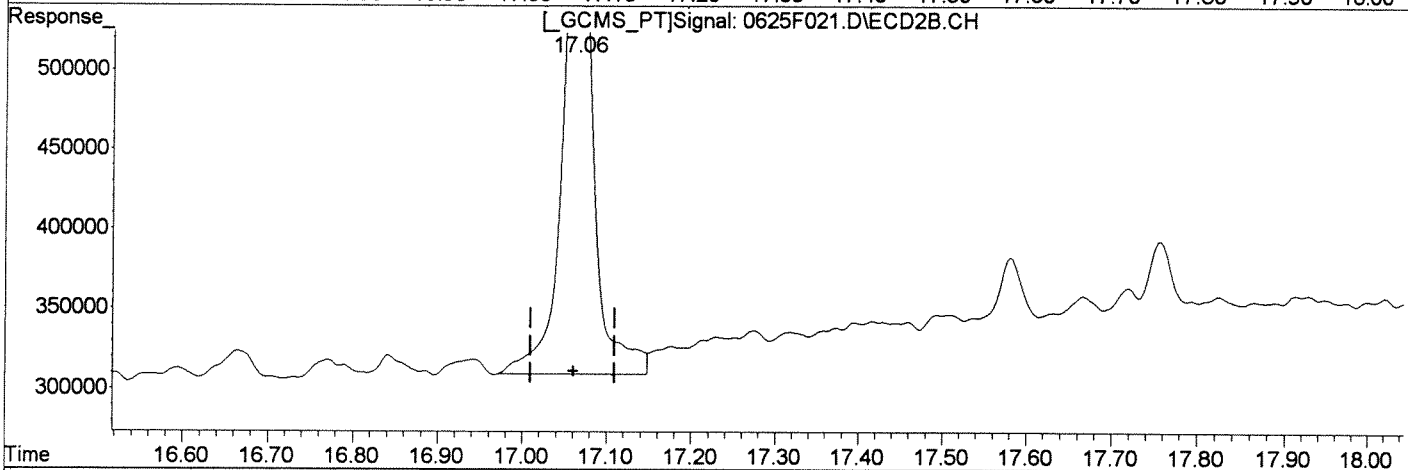
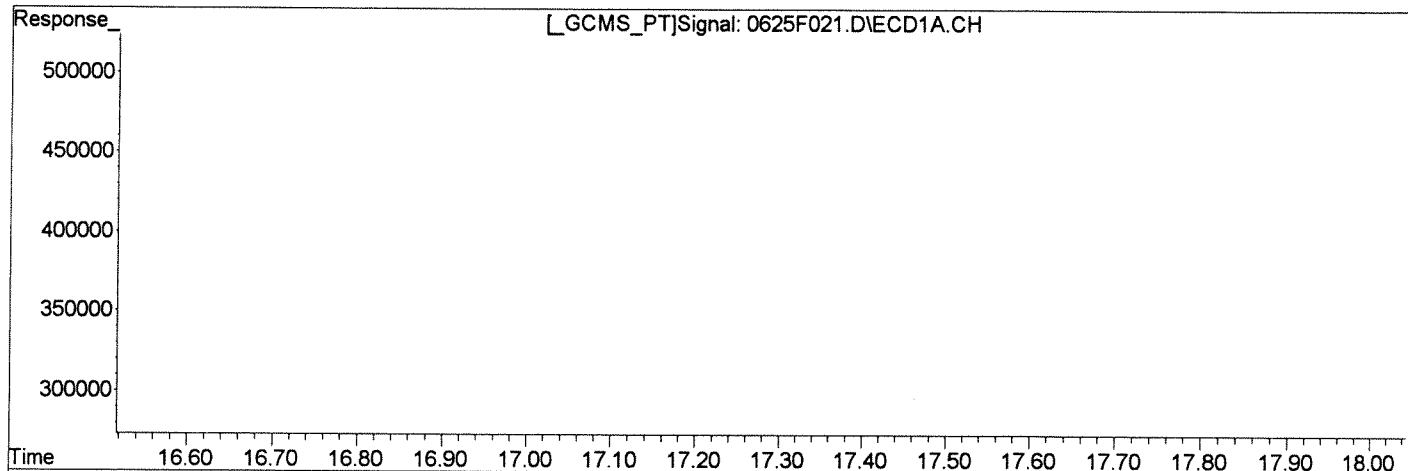
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm




Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
 Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
 Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
 Sample : KWG1405574-DLCS6 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F021.D\ECD1A.CH

(28) Decachlorobiphenyl (s)	Manual Integration:
18.51min 75.108ug/L	Before
response 1612518	
	06/26/14
(28) Decachlorobiphenyl #2 (s)	
17.06min 97.415ug/L	
response 839052	

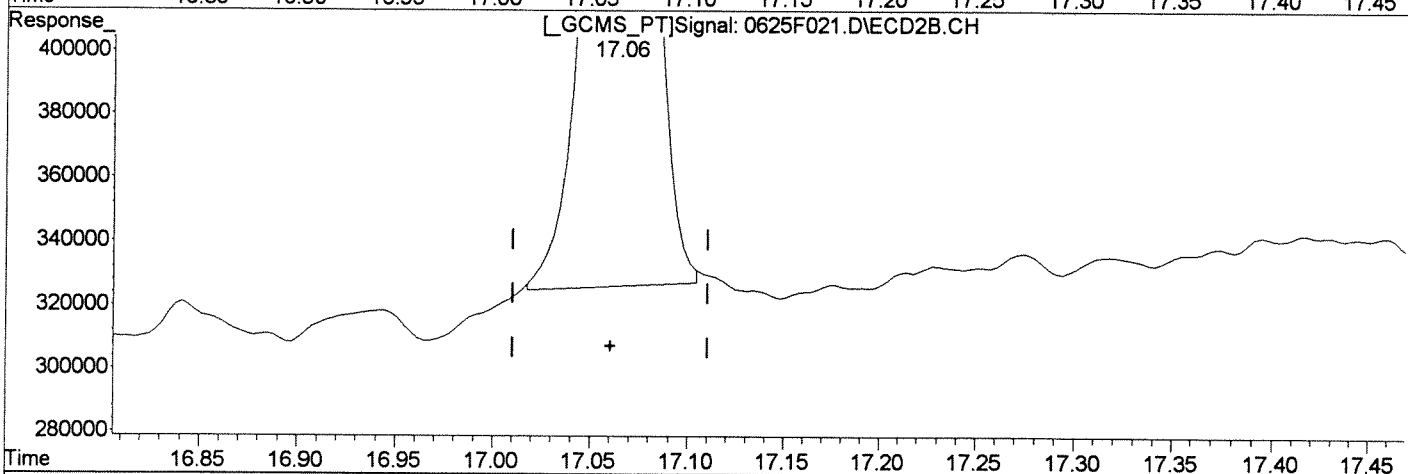
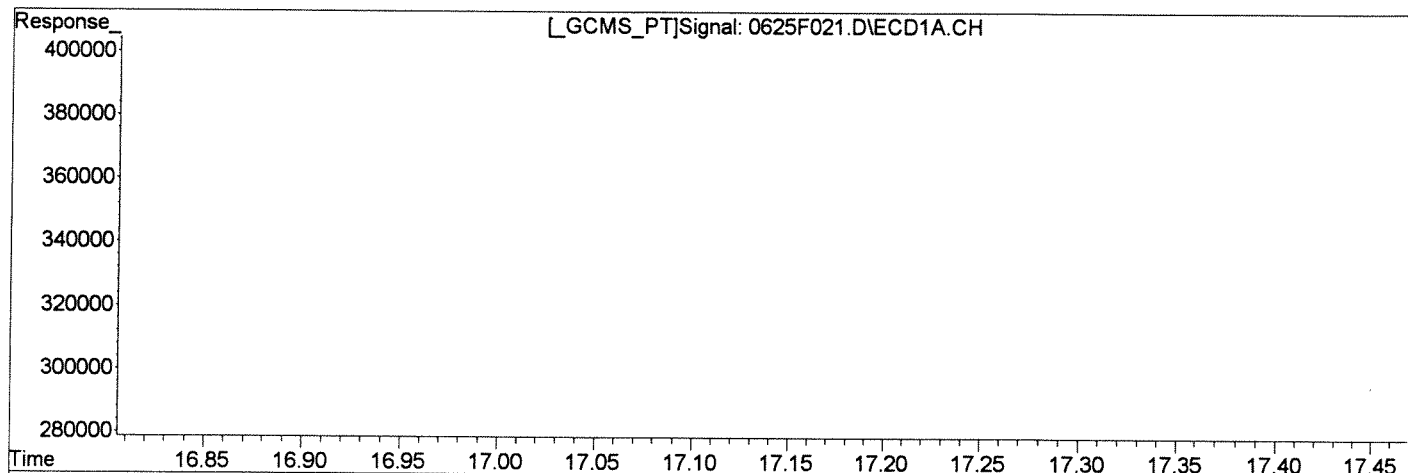
(+) = Expected Retention Time
 0625F021.D GC23-031714-8081.M

Thu Jun 26 13:33:35 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
 Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
 Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
 Sample : KWG1405574-DLCS6 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F021.D\ECD1A.CH

(28) Decachlorobiphenyl (s)	Manual Integration:
18.51min 75.108ug/L	After
response 1612518	Baseline/Shoulder
	06/26/14
(28) Decachlorobiphenyl #2 (s)	
17.06min 79.397ug/L m	
response 683858	

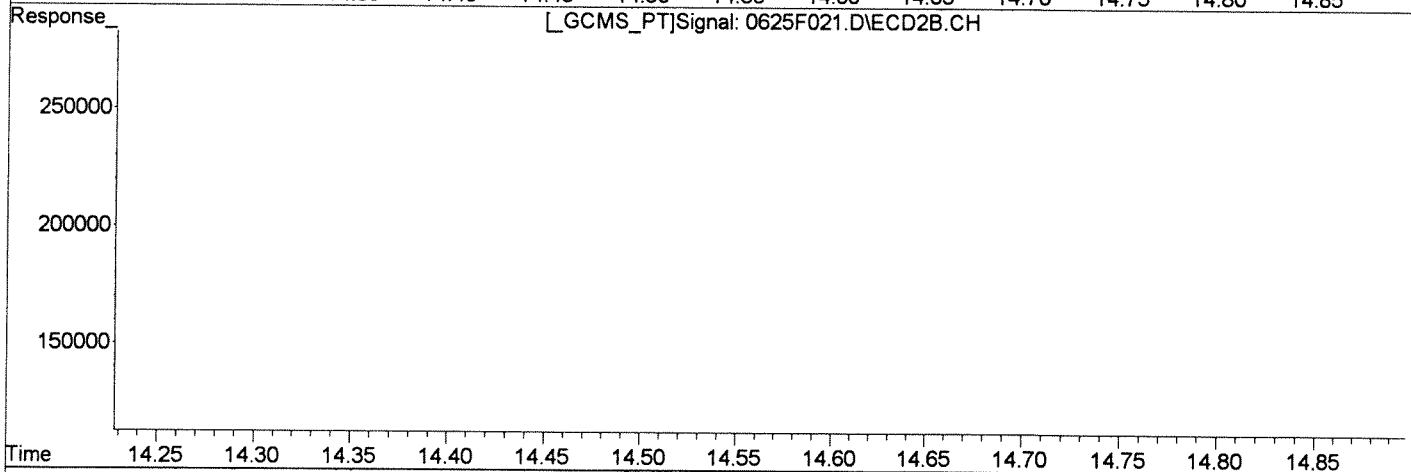
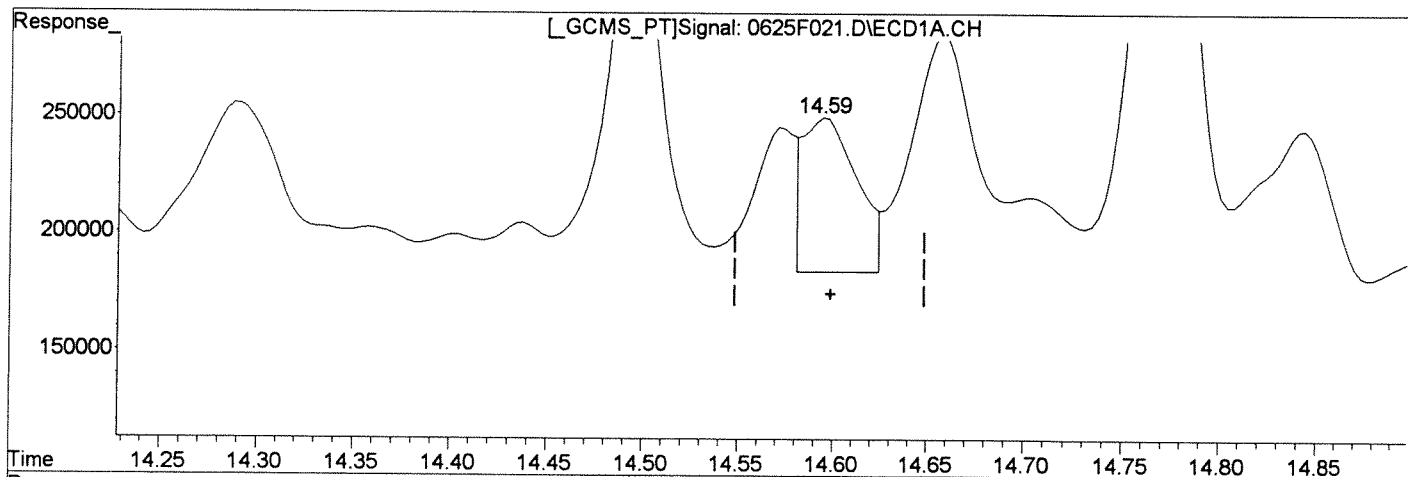
(+) = Expected Retention Time

0625F021.D GC23-031714-8081.M Thu Jun 26 13:33:39 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
Sample : KWG1405574-DLCS6 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F021.D\ECD1A.CH	
(30) Toxaphene	Manual Integration:
14.59min 950.859ug/L	Before
response 128502	06/26/14
(30) Toxaphene #2	
0.00min 0.000ug/L d	
response 0	

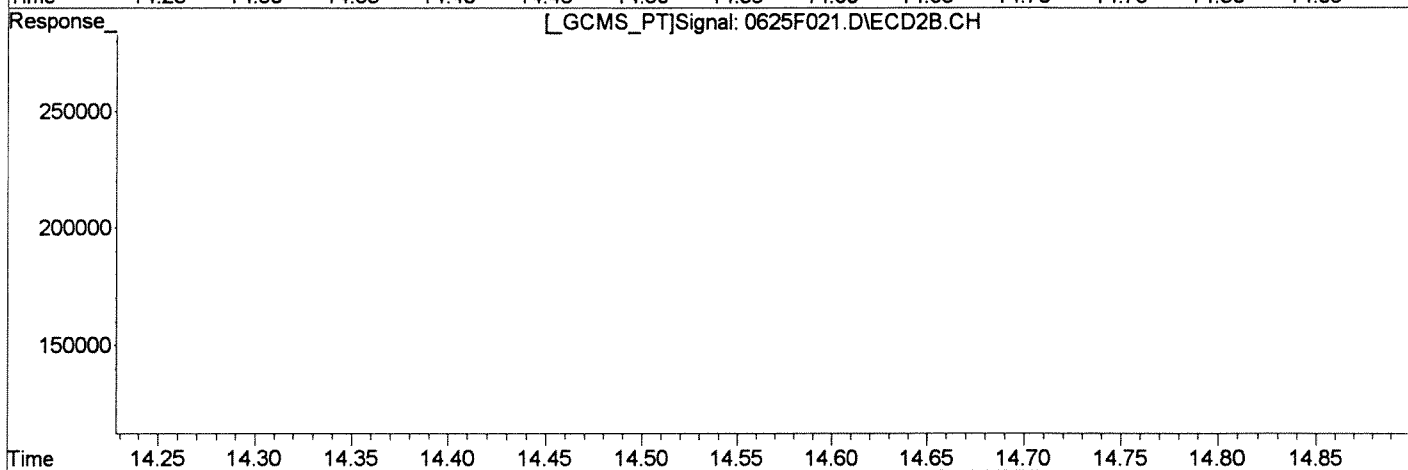
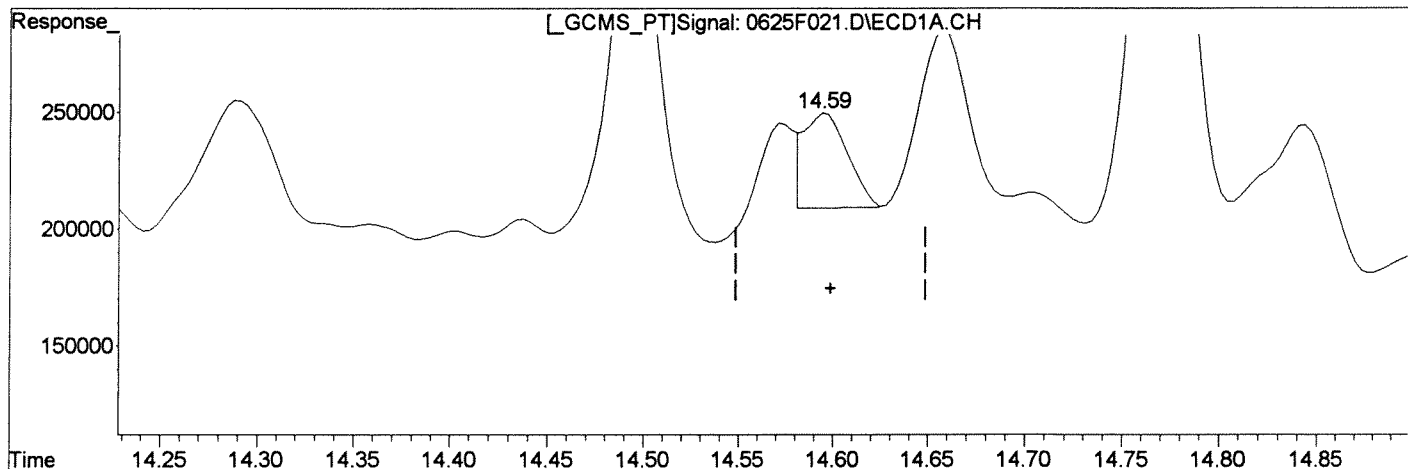
(+) = Expected Retention Time
0625F021.D GC23-031714-8081.M

Thu Jun 26 13:33:44 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
Sample : KWG1405574-DLCS6 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F021.D\ECD1A.CH	
(30) Toxaphene	Manual Integration:
14.59min 464.234ug/L m	After
response 62738	Baseline/Shoulder
	06/26/14
(30) Toxaphene #2	
0.00min 0.000ug/L d	
response 0	

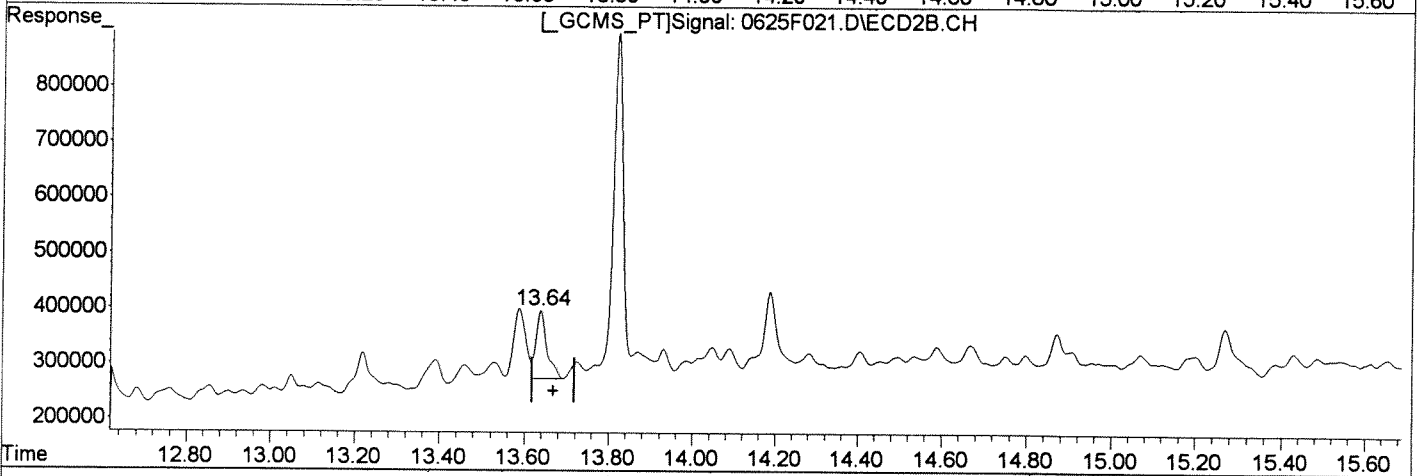
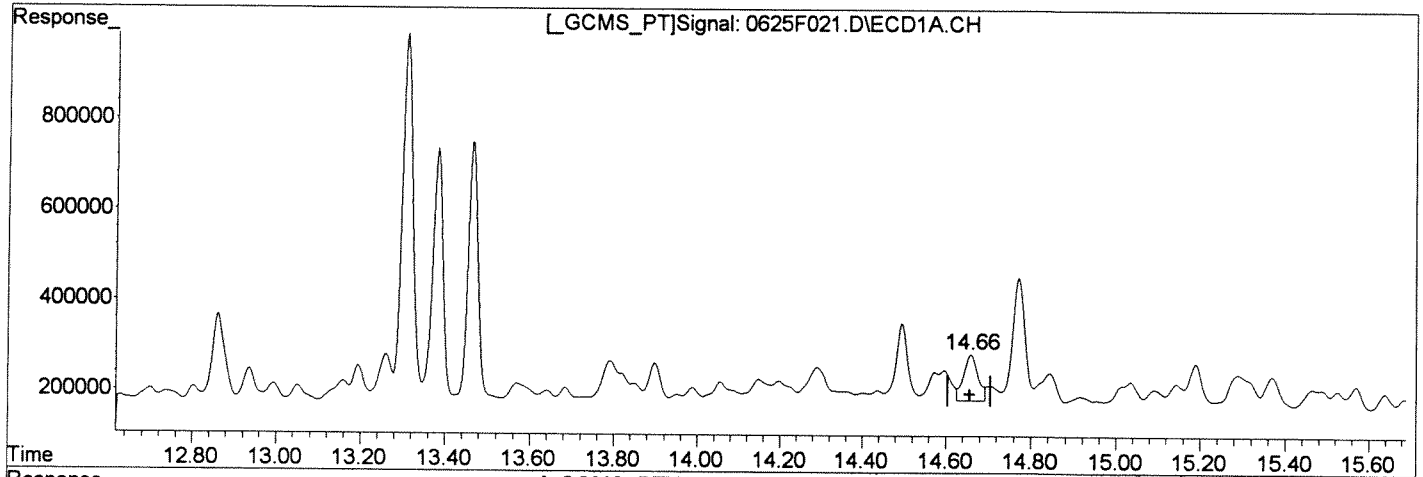
(+) = Expected Retention Time
0625F021.D GC23-031714-8081.M

Thu Jun 26 13:33:47 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
Sample : KWG1405574-DLCS6 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F021.D\ECD1A.CH

(31) Toxaphene {2}	Manual Integration:
14.66min 1189.601ug/L	Before
response 237096	06/26/14
(31) Toxaphene {2} #2	
13.64min 3738.044ug/L	
response 220720	

(+) = Expected Retention Time

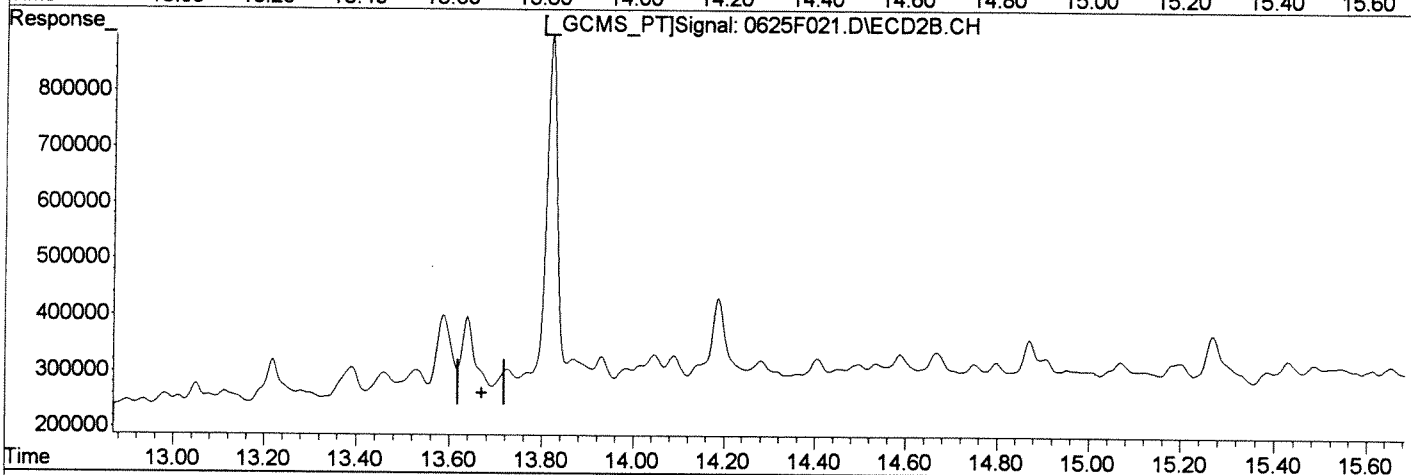
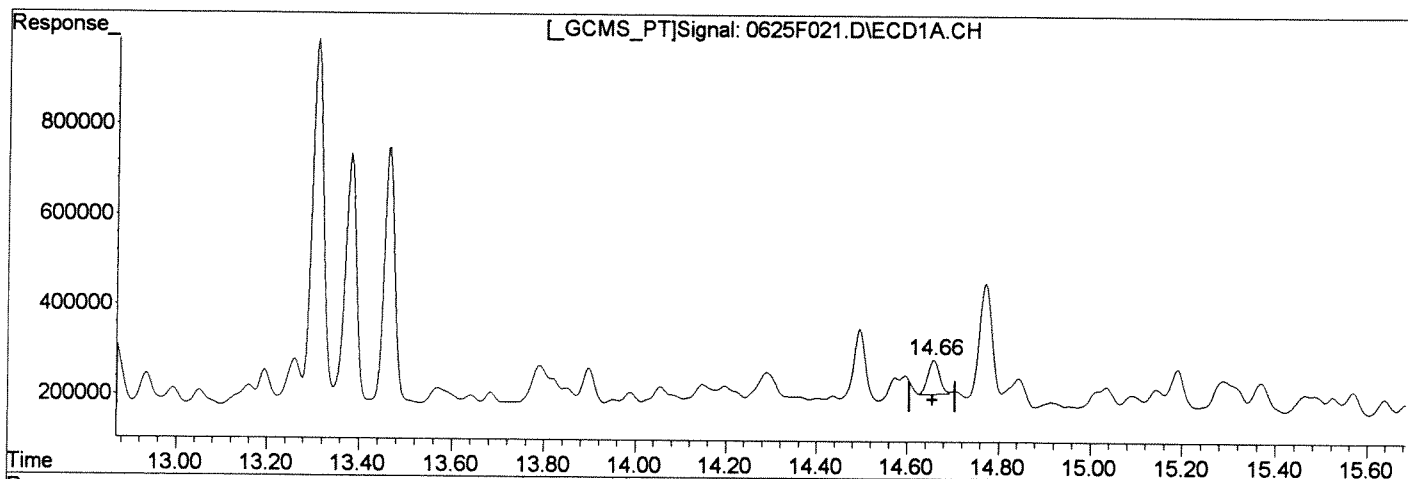
0625F021.D GC23-031714-8081.M

Thu Jun 26 13:33:52 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
Sample : KWG1405574-DLCS6 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F021.D\ECD1A.CH

(31) Toxaphene {2}
14.66min 677.166ug/L m
response 134964

(31) Toxaphene {2} #2
0.00min 0.000ug/L d
response 0

Manual Integration:
After
Baseline/Shoulder
06/26/14

(+) = Expected Retention Time

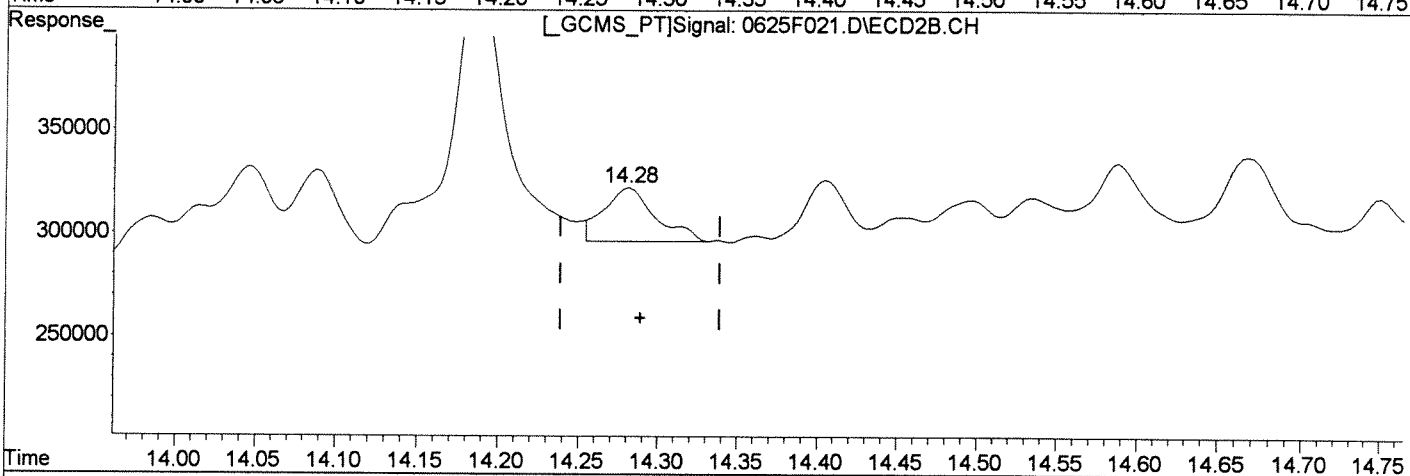
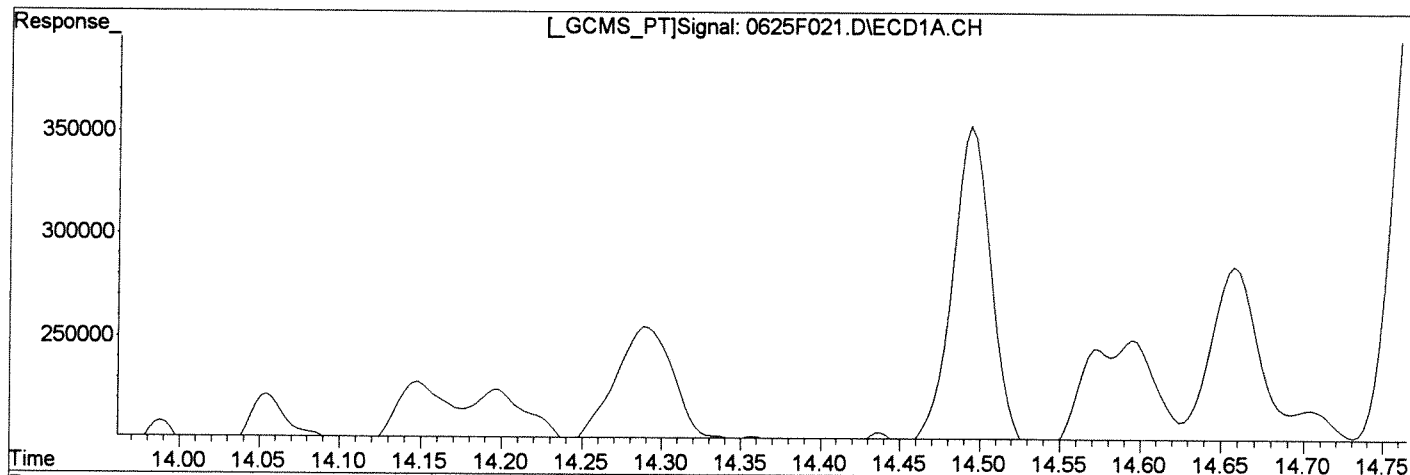
0625F021.D GC23-031714-8081.M


Thu Jun 26 13:33:59 2014

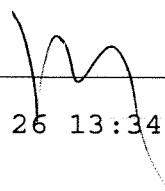
Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
 Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
 Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
 Sample : KWG1405574-DLCS6 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F021.D\ECD1A.CH		Manual Integration:
(33) Toxaphene {4}		Before
14.84min	530.891ug/L	
response	157749	06/26/14
(33) Toxaphene {4} #2		
14.28min	601.648ug/L	
response	58230	



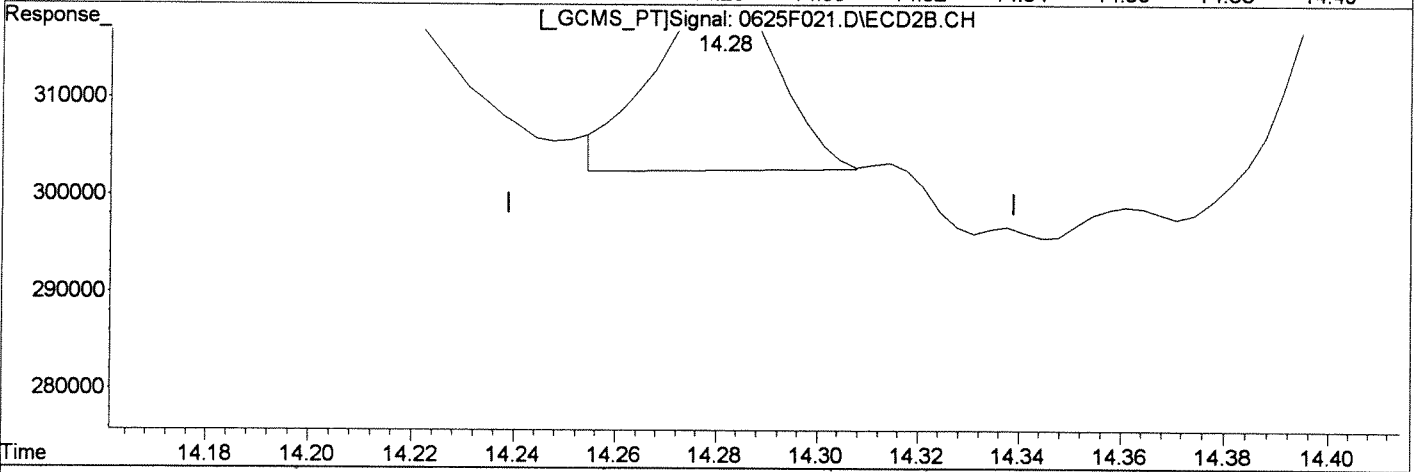
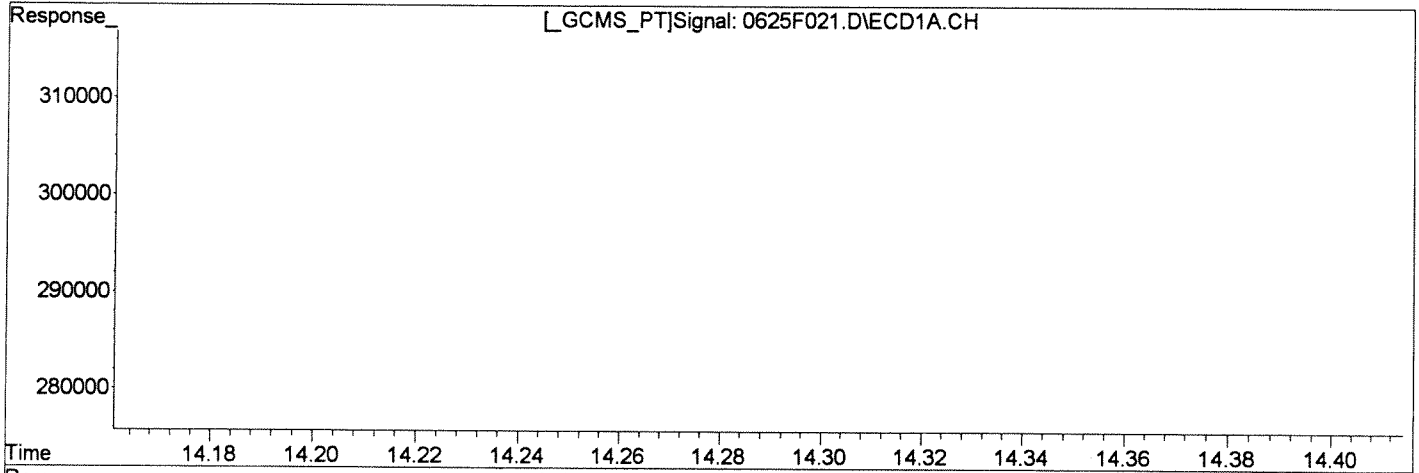
(+) = Expected Retention Time
 0625F021.D GC23-031714-8081.M

Thu Jun 26 13:34:04 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
Sample : KWG1405574-DLCS6 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F021.D\ECD1A.CH	
(33) Toxaphene {4}	Manual Integration:
14.84min 530.891ug/L	After
response 157749	Baseline/Shoulder
	06/26/14
(33) Toxaphene {4} #2	
14.28min 327.233ug/L m	
response 31671	

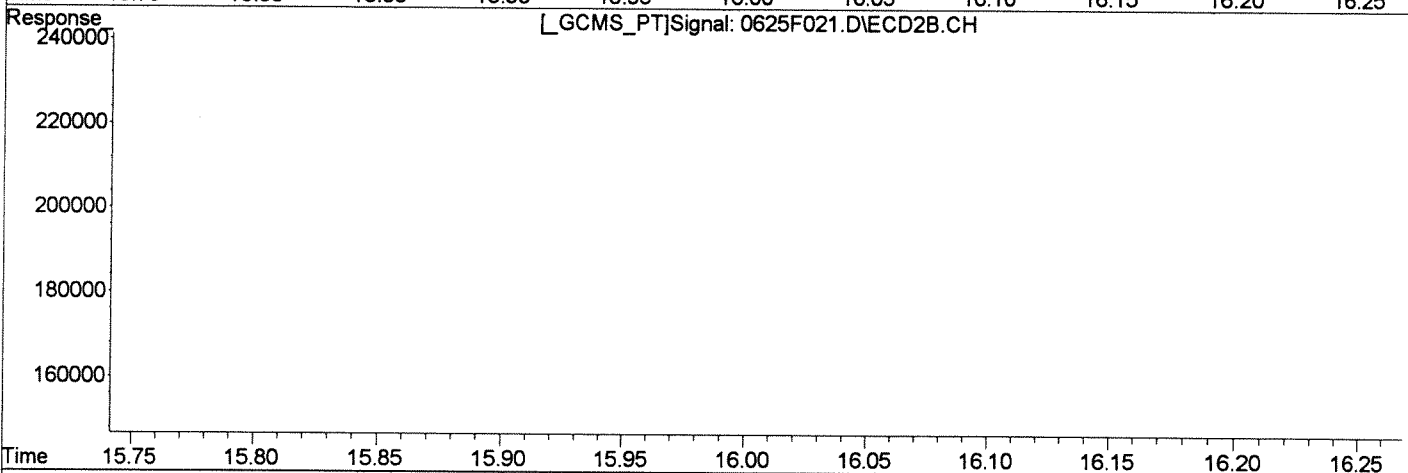
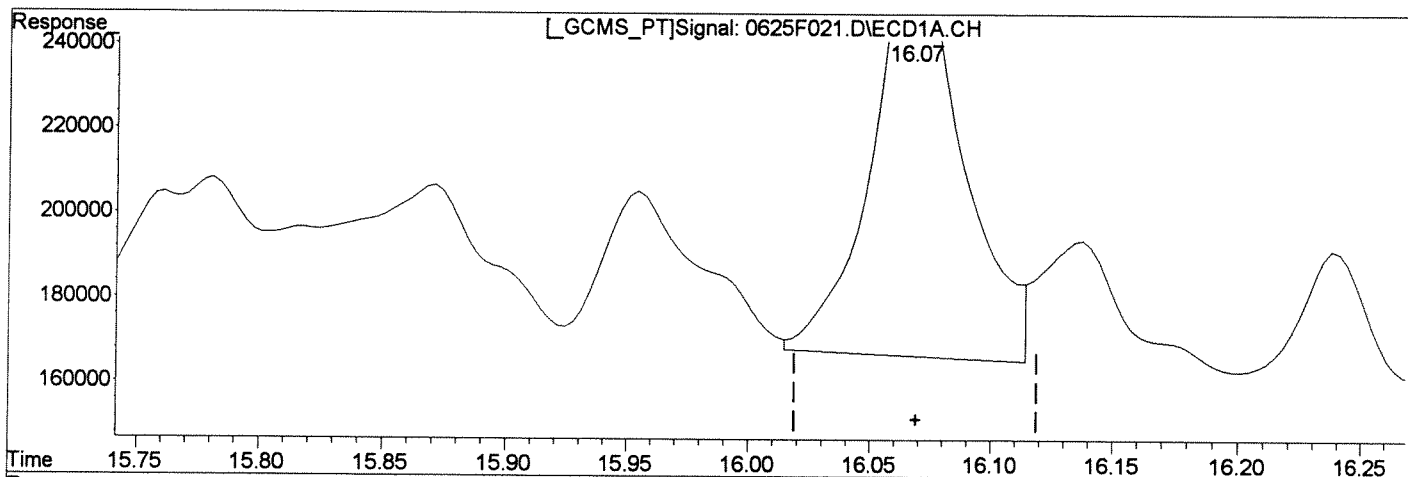
(+) = Expected Retention Time
0625F021.D GC23-031714-8081.M

Thu Jun 26 13:34:07 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
Sample : KWG1405574-DLCS6 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F021.D\ECD1A.CH

(35) Toxaphene {6}	Manual Integration:
16.07min 645.648ug/L	Before
response 258896	06/26/14
(35) Toxaphene {6} #2	
14.87min 759.583ug/L	
response 99779	

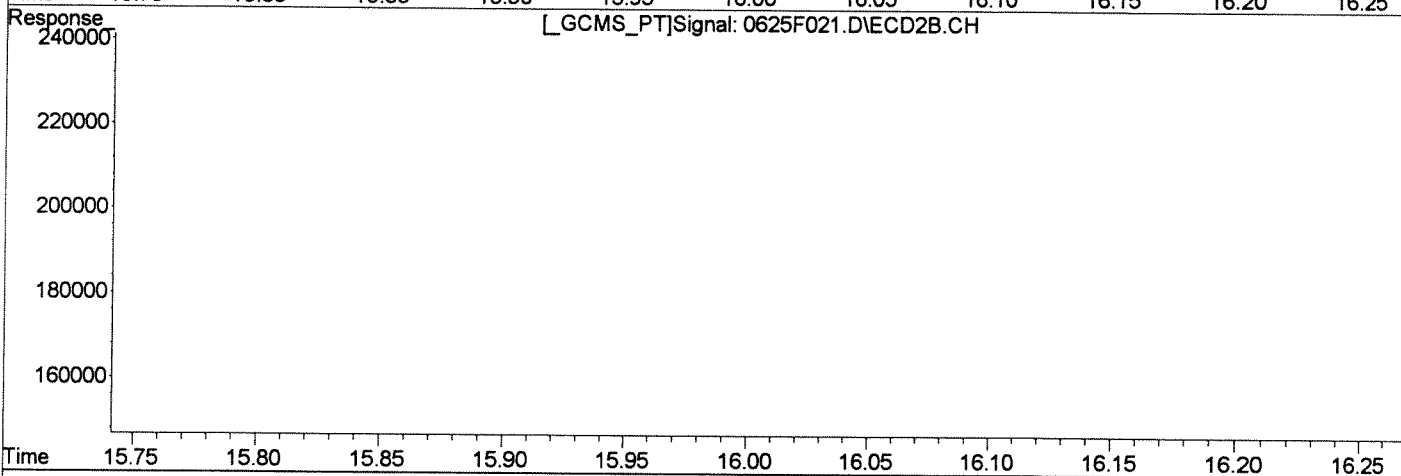
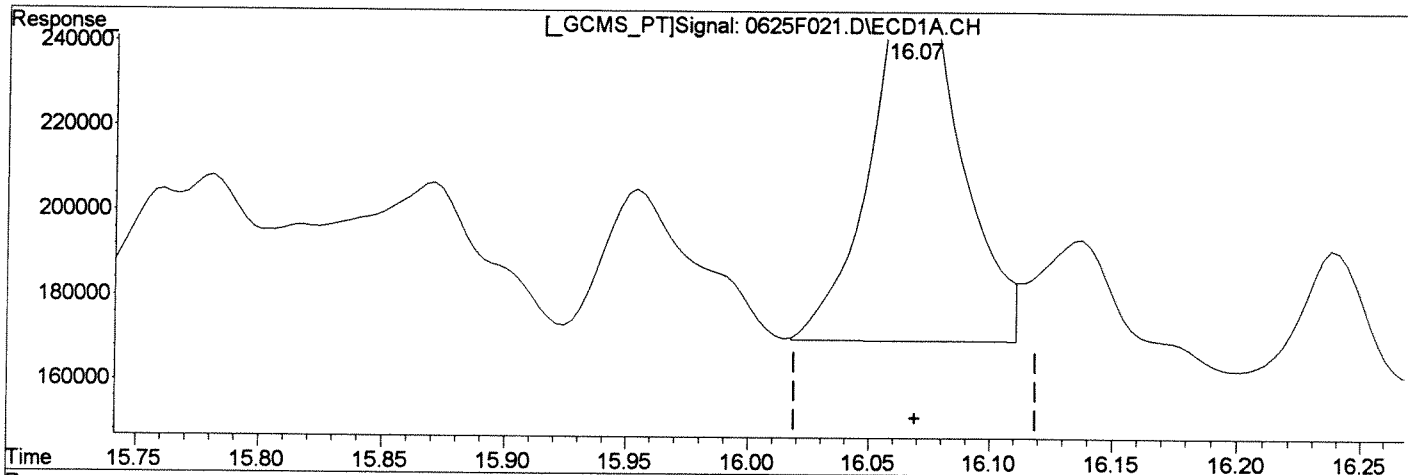
(+) = Expected Retention Time
0625F021.D GC23-031714-8081.M

Thu Jun 26 13:34:12 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F021.D\ECD1A.CH Vial: 20
Signal #2 : J:\GC23\DATA\062514\0625F021.D\ECD2B.CH
Acq On : 25 Jun 2014 11:54 pm Operator: SMURRAY
Sample : KWG1405574-DLCS6 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F021.D\ECD1A.CH

(35) Toxaphene {6}	Manual Integration:
16.07min 588.721ug/L m	After
response 236069	Baseline/Shoulder
	06/26/14
(35) Toxaphene {6} #2	
14.87min 759.583ug/L	
response 99779	

(+) = Expected Retention Time
0625F021.D GC23-031714-8081.M

Thu Jun 26 13:34:15 2014

Exception Report

Data File: J:\GC23\DATA\062514\0625F044.D
Lab ID: KWG1406763-3
RunType: LCS
Matrix: WATER

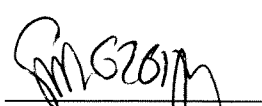
Date Acquired: 06/26/2014 11:15
Date Quantitated: 06/26/2014 14:17
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

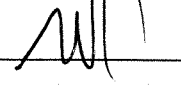
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	TCN
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	9461.666666	87846.666666	NR
	1-Bromo-2-nitrobenzene {3}	0	2579.916666	90319.666666	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	COB
	4,4'-DDD	14.5	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.06	NA	NA	
	cis-Nonachlor	14.5	NA	NA	
Above Highest ICAL Level	cis-Nonachlor	124.47	NA	100	ly

Primary Review: 

Secondary Review: 

Exception Report

Data File: J:\GC23\DATA\062514\0625F044.D\0625F044C.D
Lab ID: KWG1406763-3
RunType: LCS
Matrix: WATER

Date Acquired: 06/26/2014 11:15
Date Quantitated: 06/26/2014 14:17
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Chlorpyrifos	26.0	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	JSA
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.48	NA	NA	SA
	1-Bromo-2-nitrobenzene {4}	5.48	NA	NA	

Primary Review: _____
 Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F044.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F044.D\0625F044c.d	Vial:	37
Acqu Date:	06/26/2014 11:15	Quant Date:	06/26/2014 14:17
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1406763-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/25/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1351005	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10c}	5.48 ^{-0.07c}	2127141	850431	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.06 ^{+0.14c}	5.48 ^{+0.09c}	2127141	850431	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{-0.01}	7.27	1383955	588788	54.34	52.47	54 OK
				%Recovery =		54 OK	52 OK	Limits = 20-106
1	Decachlorobiphenyl	18.52	17.07 ^{-0.01}	1443577	596528	64.07	62.71	64 OK
				%Recovery =		64 OK	63 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC	9.66	8.50 ^{-0.01}	2194414	923558	66.88	68.31	0.134	0.137	0.134
1	Hexachlorobenzene	9.82	8.28 ^{-0.01}	1472605	625028	50.69	48.15	0.101	0.0963	0.0963
1	beta-BHC	10.93 ^{-0.01}	9.78 ^{-0.01}	913563	390302	67.27	62.74	0.135	0.125	0.125
1	gamma-BHC (Lindane)	10.33 ^{-0.01}	9.25 ^{-0.01}	2048910	836066	67.83	67.00	0.136	0.134	0.134
1	delta-BHC	11.43 ^{-0.01}	10.31 ^{-0.01}	2138115	906470	72.84	73.98	0.146	0.148	0.146
1	Heptachlor	11.53 ^{-0.01}	9.93 ^{-0.01}	1934716	767165	65.98	65.85	0.132	0.132	0.132
1	Aldrin	12.07 ^{-0.01}	10.52 ^{-0.01}	1704371	767278	57.03	59.59	0.114	0.119	0.114
1	Isodrin	12.60 ^{-0.01}	11.32 ^{-0.01}	1519997	663207	60.78	62.09	0.122	0.124	0.122
1	Heptachlor Epoxide	12.79 ^{-0.01}	11.61	1738148	767768	63.02	67.06	0.126	0.134	0.126

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 C: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F044.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F044.D\0625F044c.d	Vial:	37
Acqu Date:	06/26/2014 11:15	Quant Date:	06/26/2014 14:17
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1406763-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds					Final Conc. Units: ug/L					
IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane	13.31 ^{-0.01}	11.98 ^{-0.01}	1790313	773379	64.19	64.66	0.128	0.129	0.128
1	Endosulfan I	13.44	12.20	1337497	568344	53.78	54.90	0.108	0.110	0.108
1	alpha-Chlordane	13.39	12.13	1749081	758405	63.56	64.73	0.127	0.129	0.127
1	Dieldrin	13.86	12.64 ^{-0.01}	1817549	785174	68.23	67.24	0.136	0.134	0.134
1	4,4'-DDE	13.67	12.49	1742564	778269	65.06	67.15	0.130	0.134	0.130
1	Endrin	14.22 ^{-0.01}	13.12 ^{-0.01}	1631461	743586	70.53	74.03	0.141	0.148	0.141
1	Endosulfan II	14.67 ^{-0.01}	13.55 ^{-0.01}	1380244	581089	60.02	60.48	0.120	0.121	0.120
1	4,4'-DDD	14.50 ^{-0.01 c}	13.38	3392031	632831	155.13	69.94	0.310	0.140	0.140P
1	Endrin Aldehyde	14.85 ^{-0.01}	13.92	1209628	520021	80.21	70.18	0.160	0.140	0.140
1	Endosulfan Sulfate	15.33	14.24 ^{-0.01}	1524692	656070	74.86	73.23	0.150	0.146	0.146
1	4,4'-DDT	15.01	13.80	1511427	599825	77.75	69.99	0.155	0.140	0.140
1	Endrin Ketone	16.01 ^{-0.01}	15.19 ^{-0.01}	1884556	768037	73.32	69.56	0.147	0.139	0.139
1	Methoxychlor	15.75 ^{-0.01}	14.91	853448	326906	82.74	74.70	0.165	0.149	0.149
1	2,4'-DDE			0d	0d	0.0000	0.0000	0.00050U	0.00050U	NR
1	2,4'-DDD			0d	0d	0.0000	0.0000	0.00057U	0.00057U	NR
1	2,4'-DDT			0d	0d	0.0000	0.0000	0.00059U	0.00059U	NR
	Toxaphene			0	0	0.0000	0.0000	0.0510U	0.0510U	NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {2}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {3}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {4}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {5}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {6}			0d	0d	0.0000	0.0000	0.051U	0.051U	
	Chlordane			0	0	0.0000	0.0000	0.0220U	0.0220U	NR
3	Chlordane {1}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {2}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {3}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {4}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {5}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {6}			0d	0d	0.0000	0.0000	0.022U	0.022U	
4	Chlorpyrifos	12.00 ^{+0.01}	10.89	857889	357042	74.77	84.30 ^{ccv}	0.150	0.169	0.150
4	Oxychlordane	12.75	11.39	1467345	620901	64.58	63.85	0.129	0.128	0.128
4	cis-Nonachlor	14.50 ^c	13.22	3392031	805005	124.47	65.74	0.249E	0.131	0.131P
4	trans-Nonachlor	13.47	12.03 ^{+0.01}	1677987	758839	61.75	63.68	0.123	0.127	0.123
4	Mirex	16.86 ^{+0.01}	15.38 ^{+0.01}	1301616	557052	64.00	65.93	0.128	0.132	0.128
4	Hexachloroethane	4.04	3.44	2408375	918120	47.93	46.57	0.0959	0.0931	0.0931
4	Hexachlorobutadiene	4.81	3.99	1692098	675065	44.02	42.73	0.0880	0.0855	0.0855
4	Alachlor			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound
D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis
*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result >= MRL, but MRL less than low point of ICAL
cc: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F044.D\ECD1A.CH Vial: 37
 Signal #2 : J:\GC23\DATA\062514\0625F044.D\ECD2B.CH
 Acq On : 26 Jun 2014 11:15 am Operator: SMURRAY
 Sample : KWG1406763-LCS3 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:51 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards							
1) i	1-Bromo-2-nitrob	6.06	5.48	2127141	850431	100.000	100.000
43)	1-Bromo-2-nitrob	6.06	5.48	2127141	850431	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachloro-m-xy	8.81	7.27	1383955	588788	54.335	52.465
28) s	Decachlorobiphen	18.52	17.07	1443577	596528	64.074	62.709
Target Compounds							
3)	alpha-BHC	9.66	8.50	2194414	923558	66.876	68.308
4)	Hexachlorobenzen	9.82	8.28	1472605	625028	50.690	48.150
5)	beta-BHC	10.93	9.78	913563	390302	67.269	62.735
6)	gamma-BHC (Linda	10.33	9.25	2048910	836066	67.829	66.999
7)	delta-BHC	11.43	10.31	2138115	906470	72.836	73.978
8)	Heptachlor	11.53	9.93	1934716	767165	65.977	65.852
9)	Aldrin	12.07	10.52	1704371	767278	57.026	59.592
10)	Isodrin	12.60	11.32	1519997	663207	60.776	62.090
11)	Heptachlor Epoxi	12.79	11.61	1738148	767768	63.023	67.055
12)	gamma-Chlordane	13.31	11.98	1790313	773379	64.187	64.657
13)	Endosulfan I	13.44	12.20	1337497	568344	53.782	54.901
14)	alpha-Chlordane	13.39	12.13	1749081	758405	63.564	64.729
15)	Dieldrin	13.86	12.64	1817549	785174	68.231	67.240
16)	4,4'-DDE	13.67	12.49	1742564	778269	65.064	67.148
17)	Endrin	14.22	13.12	1631461	743586	70.534	74.029
18)	Endosulfan II	14.67	13.55	1380244	581089	60.023	60.475
19)	4,4'-DDD	14.50	13.38	3392031	632831	155.126	69.935 #
20)	Endrin Aldehyde	14.85	13.92	1209628	520021	80.209	70.180
21)	Endosulfan Sulfa	15.33	14.24	1524692	656070	74.855	73.228
22)	4,4'-DDT	15.01	13.80	1511427	599825	77.745	69.985
23)	Endrin Ketone	16.01	15.19	1884556	768037	73.324	69.556
24)	Methoxychlor	15.75	14.91	853448	326906	82.741	74.698
44)	Chlorpyrifos	12.00	10.89	857889	357042	74.773	84.302
45)	Oxychlordane	12.75	11.39	1467345	620901	64.581	63.849
46)	cis-Nonachlor	14.50	13.22	3392031	805005	124.465	65.740 #
47)	trans-Nonachlor	13.47	12.03	1677987	758839	61.748	63.677
48)	Mirex	16.86	15.38	1301616	557052	63.999	65.932

Signal #1 : J:\GC23\DATA\062514\0625F044.D\ECD1A.CH Vial: 37
 Signal #2 : J:\GC23\DATA\062514\0625F044.D\ECD2B.CH
 Acq On : 26 Jun 2014 11:15 am Operator: SMURRAY
 Sample : KWG1406763-LCS3 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:51 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

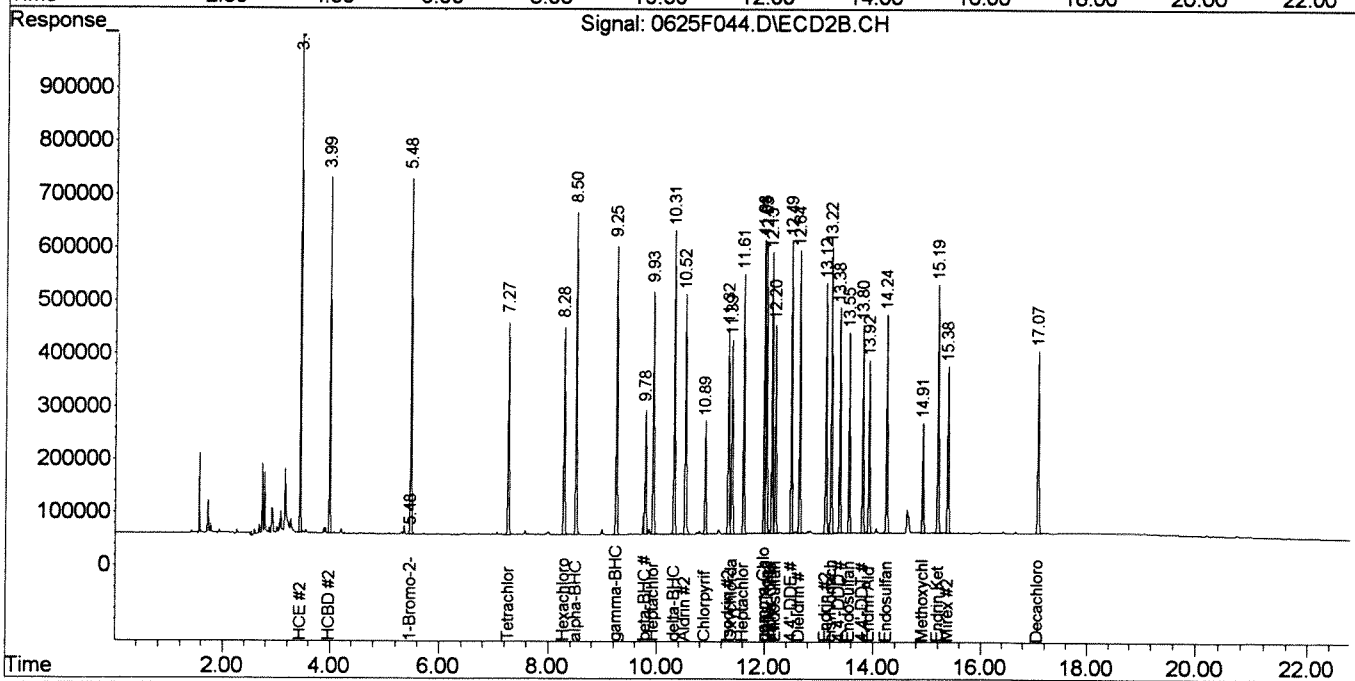
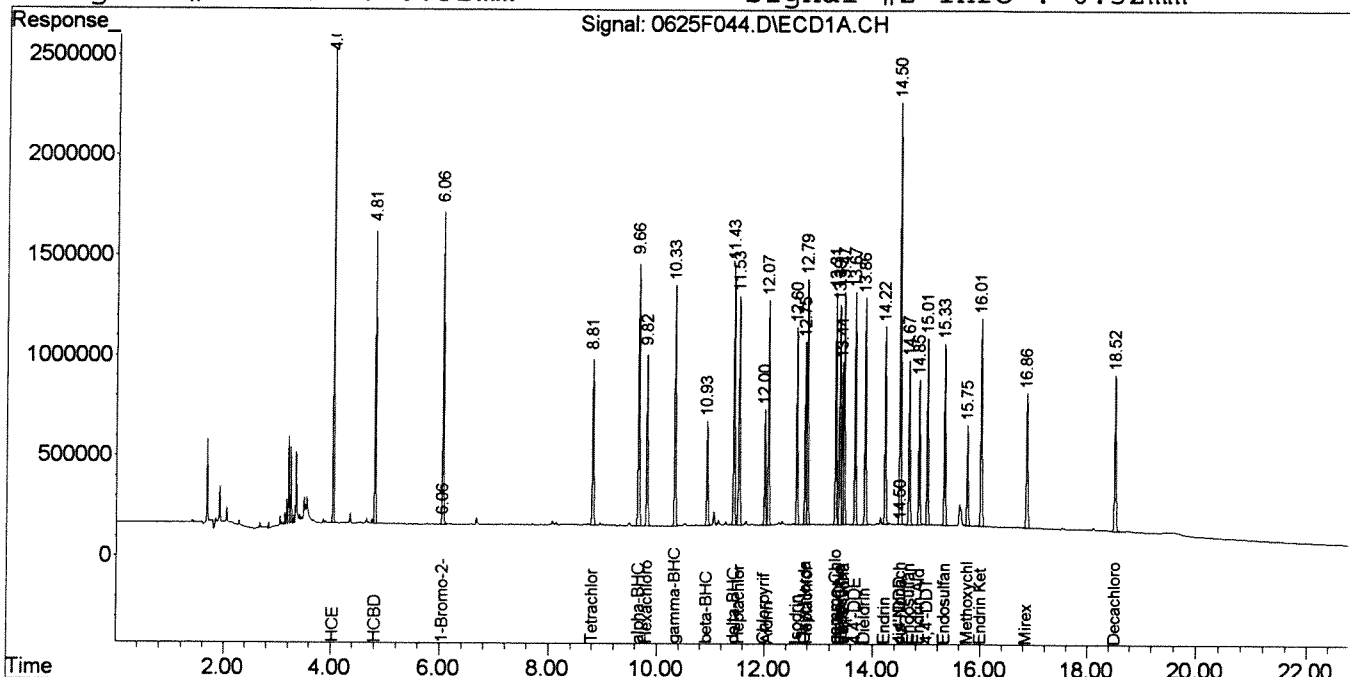
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
49)	HCE	4.04	3.44	2408375	918120	47.932	46.574
50)	HCBD	4.81	3.99	1692098	675065	44.024	42.734

Signal #1 : J:\GC23\DATA\062514\0625F044.D\ECD1A.CH Vial: 37
 Signal #2 : J:\GC23\DATA\062514\0625F044.D\ECD2B.CH
 Acq On : 26 Jun 2014 11:15 am Operator: SMURRAY
 Sample : KWG1406763-LCS3 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:17 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

Data File: J:\GC23\DATA\062514\0625F045.D
Lab ID: KWG1406763-3
RunType: LCS
Matrix: WATER

Date Acquired: 06/26/2014 11:45
Date Quantitated: 06/26/2014 14:18
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {2}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.06	NA	NA	

Primary Review: _____
 Secondary Review: _____

Exception Report

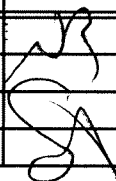
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Lab ID: KWG1406763-3
RunType: LCS
Matrix: WATER

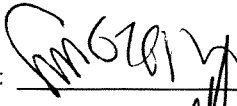
Date Acquired: 06/26/2014 11:45
Date Quantitated: 06/26/2014 14:18
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene {4}	0	5189.083333	24756.33333	
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.48	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.48	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.48	NA	NA	

Primary Review: 

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F045.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F045.D\0625F045c.d	Vial:	38
Acqu Date:	06/26/2014 11:45	Quant Date:	06/26/2014 14:18
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1406763-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/25/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1351005	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10c}	5.48 ^{-0.07c}	2164011	879293	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.06 ^{+0.14c}	5.48 ^{+0.09c}	2164011	879293	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.06 ^{+0.06c}	5.48 ^{+0.04c}	2164011	879293	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt	
1	Tetrachloro-m-xylene	8.81 ^{-0.01}	7.27	1426741	639079	55.07	55.08	NR	
						%Recovery =	55 OK	55 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{-0.01}	17.07 ^{-0.01}	1482361	619493m	64.71	62.99	NR	
						%Recovery =	65 OK	63 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-BHC			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	0.00031U	0.00031U	0.00031U
1	beta-BHC			0d	0d	0.0000	0.0000	0.00083U	0.00083U	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	delta-BHC			0d	0d	0.0000	0.0000	0.00057U	0.00057U	NR
1	Heptachlor			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Aldrin			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	Isodrin			0d	0d	0.0000	0.0000	0.00056U	0.00056U	0.00056U
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F045.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F045.D\0625F045c.d	Vial:	38
Acqu Date:	06/26/2014 11:45	Quant Date:	06/26/2014 14:18
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1406763-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

					Final Conc. Units: ug/L					
IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR
1	Endosulfan I			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000	0.0040U	0.0040U	NR
1	Dieldrin			0d	0d	0.0000	0.0000	0.00035U	0.00035U	NR
1	4,4'-DDE			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Endrin			0d	0d	0.0000	0.0000	0.00068U	0.00068U	NR
1	Endosulfan II			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	4,4'-DDD			0d	0d	0.0000	0.0000	0.0015U	0.0015U	NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000	0.00046U	0.00046U	NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000	0.00047U	0.00047U	0.00047U
1	4,4'-DDT			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	Endrin Ketone			0d	0d	0.0000	0.0000	0.00066U	0.00066U	NR
1	Methoxychlor			0d	0d	0.0000	0.0000	0.00093U	0.00093U	NR
1	2,4'-DDE			0d	0d	0.0000	0.0000	0.00050U	0.00050U	NR
1	2,4'-DDD			0d	0d	0.0000	0.0000	0.00057U	0.00057U	NR
1	2,4'-DDT			0d	0d	0.0000	0.0000	0.00059U	0.00059U	NR
	Toxaphene			0	0	578.24	424.24	1.16	0.848	0.848
2	Toxaphene {1}	14.60		58092m	0d	406.30	0.0000	0.813	0.051U	
2	Toxaphene {2}	14.66 ^{+0.01}	13.67 ^{+0.01}	208856m	24576	990.49	364.49	1.98	0.729	
2	Toxaphene {3}		13.93	0d	43539m	0.0000	478.65	0.051U	0.957	
2	Toxaphene {4}	14.85 ^{+0.01}	14.29 ^{+0.01}	139669	48059	444.29	434.85	0.889	0.870	
2	Toxaphene {5}	15.20 ^{+0.01}	14.67	145109	78458	452.61	381.12	0.905	0.762	
2	Toxaphene {6}	16.07	14.87	253484m	69313	597.51	462.08	1.20	0.924	
	Chlordane			0	0	398.55	395.86	0.797	0.792	0.792
3	Chlordane {1}	11.10 ^{+0.01}	9.58 ^{+0.01}	369662	126110	416.63	349.12	0.833	0.698	
3	Chlordane {2}	11.53 ^{+0.01}	9.93	608519	236410	413.51	410.87	0.827	0.822	
3	Chlordane {3}	12.12 ^{+0.01}	11.98 ^{+0.01}	309633	517935	335.81	403.65	0.672	0.807	
3	Chlordane {4}	13.31 ^{+0.01}	12.03 ^{+0.01}	1334002	368606	394.11	478.42	0.788	0.957	
3	Chlordane {5}	13.39 ^{+0.01}	12.09 ^{+0.01}	847645	167390	338.93	388.21	0.678	0.776	
3	Chlordane {6}	13.47 ^{+0.01}	12.13 ^{+0.01}	893711	361169	492.29	344.92	0.985	0.690	
4	Chlorpyrifos			0d	0d	0.0000	0.0000	0.00083U	0.00083U	0.00083U
4	Oxychlordane			0d	0d	0.0000	0.0000	0.0010U	0.0010U	NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000	0.00060U	0.00060U	NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000	0.00092U	0.00092U	NR
4	Mirex			0d	0d	0.0000	0.0000	0.00081U	0.00081U	NR
4	Hexachloroethane			0d	0d	0.0000	0.0000	0.0012U	0.0012U	0.0012U
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000	0.0019U	0.0019U	0.0019U
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
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*: Result fails acceptance criteria
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 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
 Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
 Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
 Sample : KWG1406763-LCS6 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:53 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

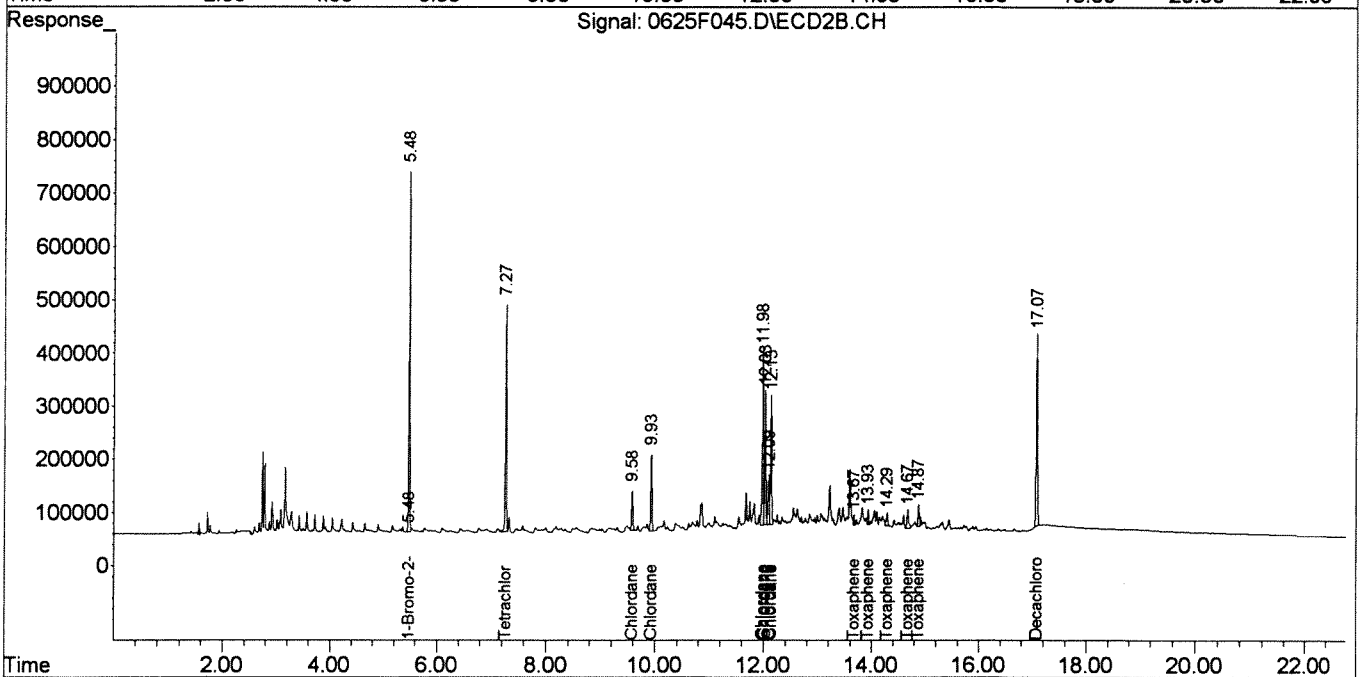
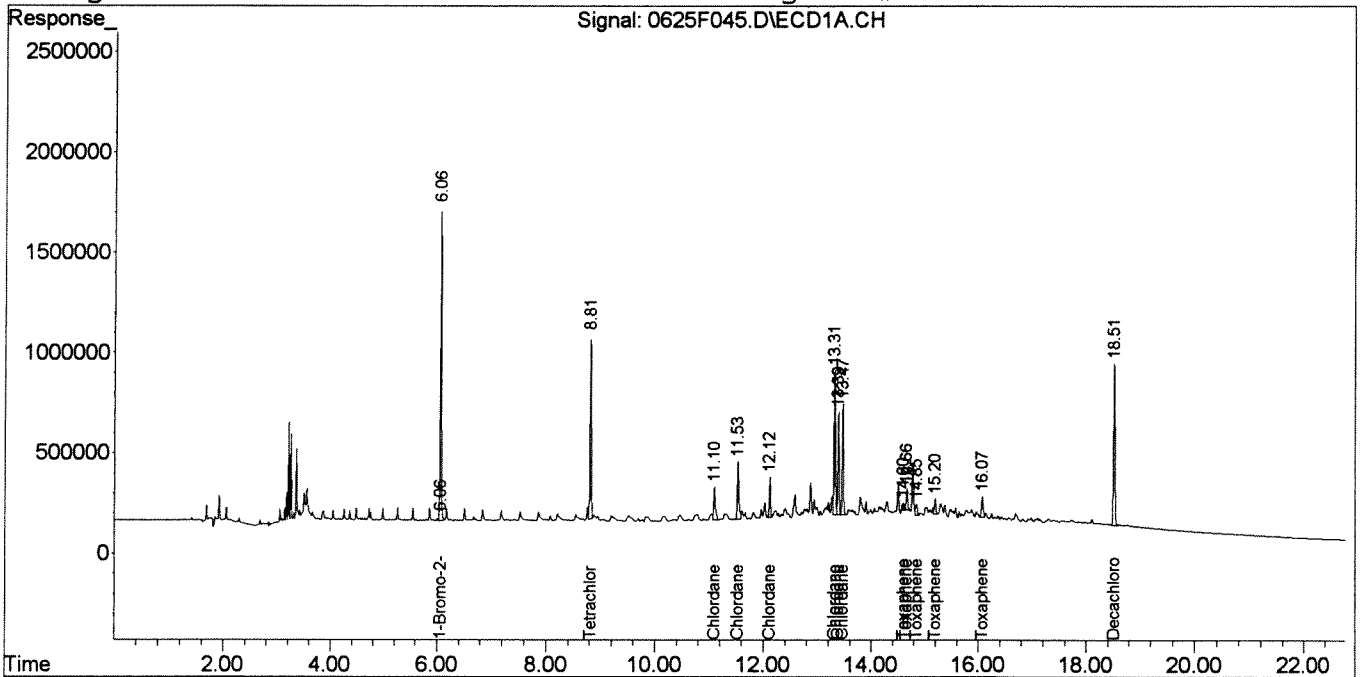
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.48	2164011	879293	100.000	100.000
29) 1-Bromo-2-nitrob	6.06	5.48	2164011	879293	100.000	100.000
36) 1-Bromo-2-nitrob	6.06	5.48	2164011	879293	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.27	1426741	639079	55.070	55.077
28) s Decachlorobiphen	18.51	17.07	1482361	619493	64.709	62.986m
Target Compounds						
30) Toxaphene	14.60	0.00	58092	0	406.300m	N.D. d#
31) Toxaphene {2}	14.66	13.67	208856	24576	990.486m	364.487 #
32) Toxaphene {3}	0.00	13.93	0	43539	N.D. d	478.653m
33) Toxaphene {4}	14.85	14.29	139669	48059	444.286	434.849
34) Toxaphene {5}	15.20	14.67	145109	78458	452.606	381.123
35) Toxaphene {6}	16.07	14.87	253484	69313	597.510m	462.082
37) Chlordane	11.10	9.58	369662	126110	416.634	349.117
38) Chlordane {2}	11.53	9.93	608519	236410	413.507	410.868
39) Chlordane {3}	12.12	11.98	309633	517935	335.811	403.648
40) Chlordane {4}	13.31	12.03	1334002	368606	394.109	478.420
41) Chlordane {5}	13.39	12.09	847645	167390	338.928	388.212
42) Chlordane {6}	13.47	12.13	893711	361169	492.294	344.922 #

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
 Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
 Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
 Sample : KWG1406763-LCS6 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:18 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

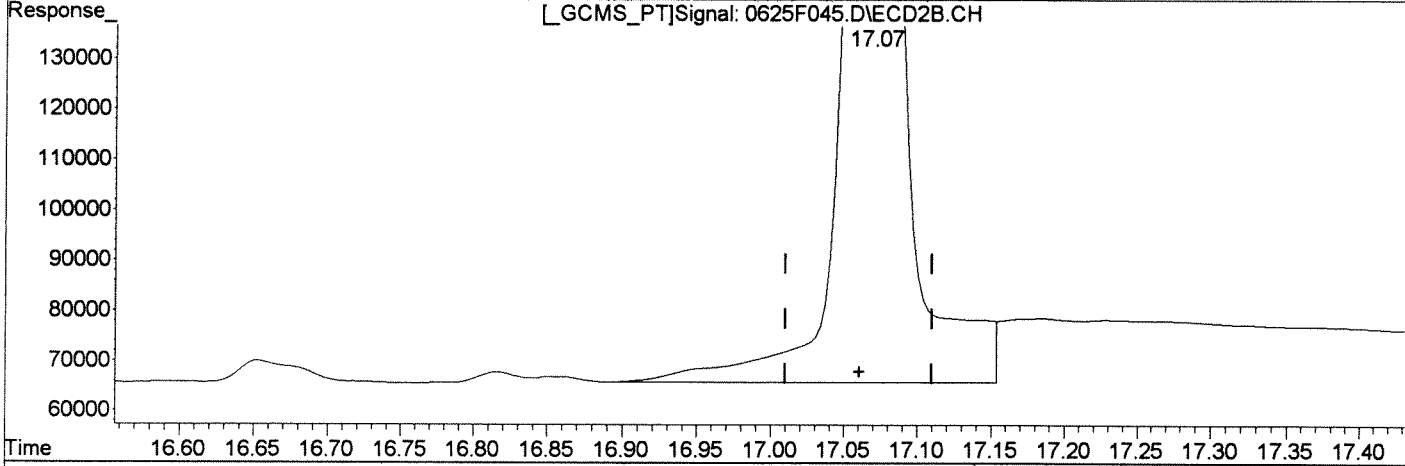
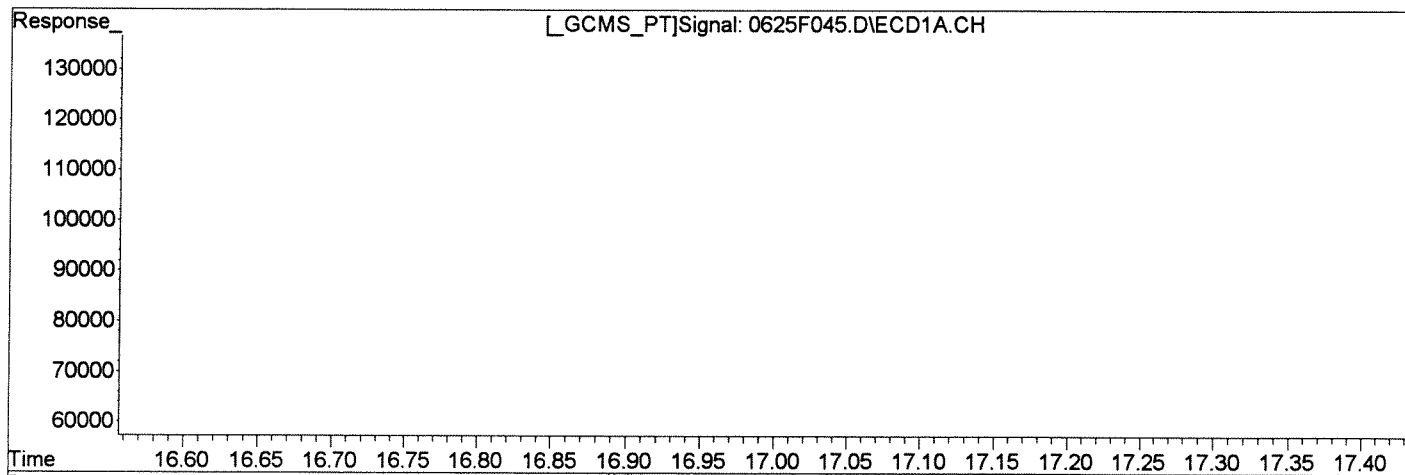
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
Sample : KWG1406763-LCS6 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F045.D\ECD1A.CH

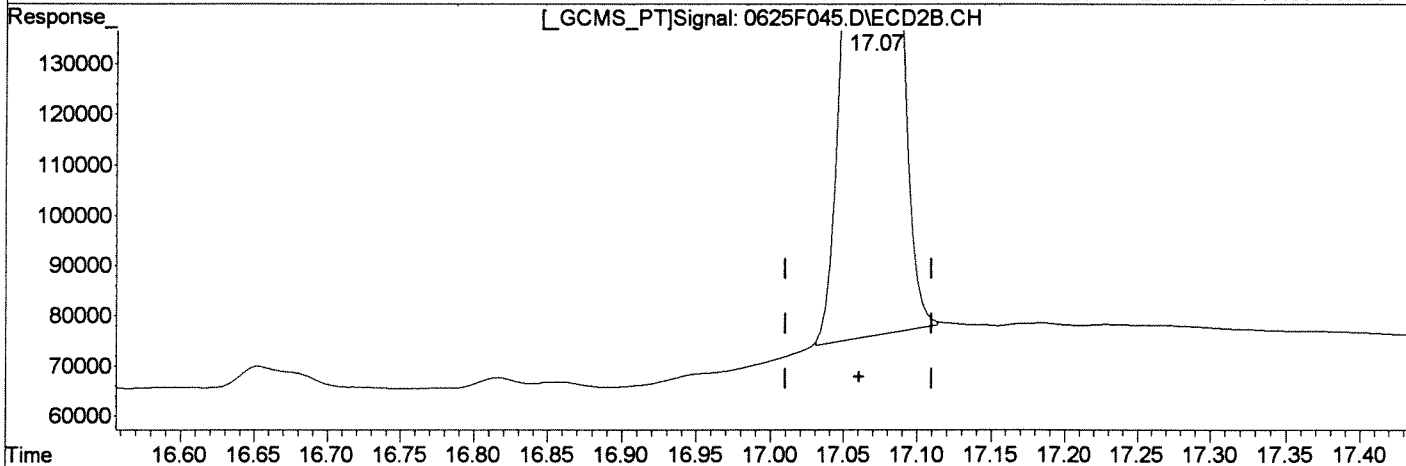
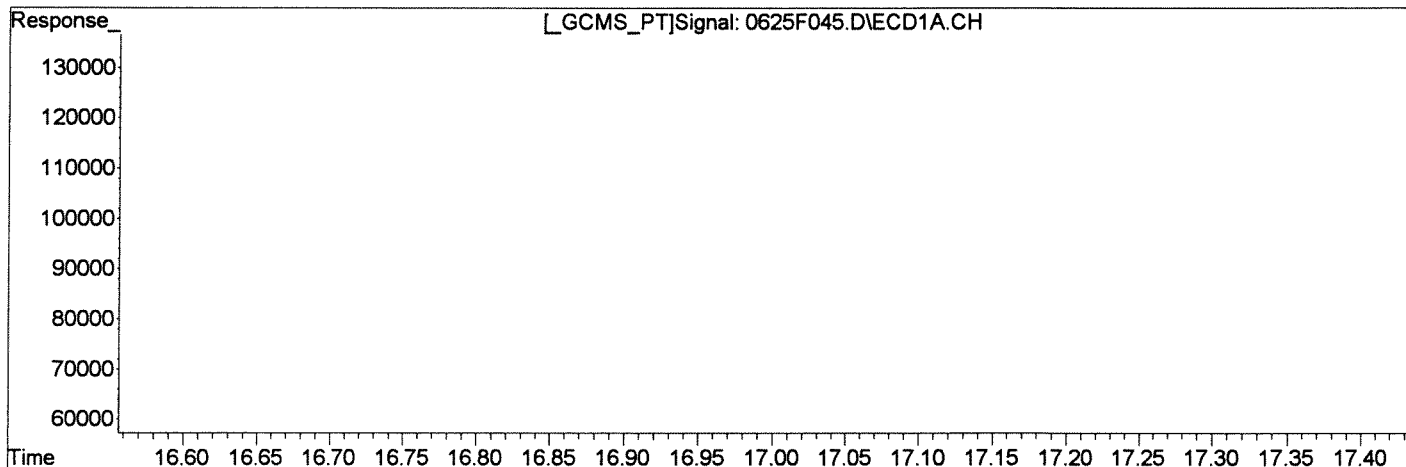
(28) Decachlorobiphenyl (s)	Manual Integration:
18.51min 64.709ug/L	Before
response 1482361	06/26/14
(28) Decachlorobiphenyl #2 (s)	
17.07min 74.143ug/L	
response 729235	

(+) = Expected Retention Time
0625F045.D GC23-031714-8081.M Thu Jun 26 14:18:12 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
 Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
 Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
 Sample : KWG1406763-LCS6 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F045.D\ECD1A.CH

(28) Decachlorobiphenyl (s)	Manual Integration:
18.51min 64.709ug/L	After
response 1482361	Baseline/Shoulder
	06/26/14
(28) Decachlorobiphenyl #2 (s)	
17.07min 62.986ug/L m	
response 619493	

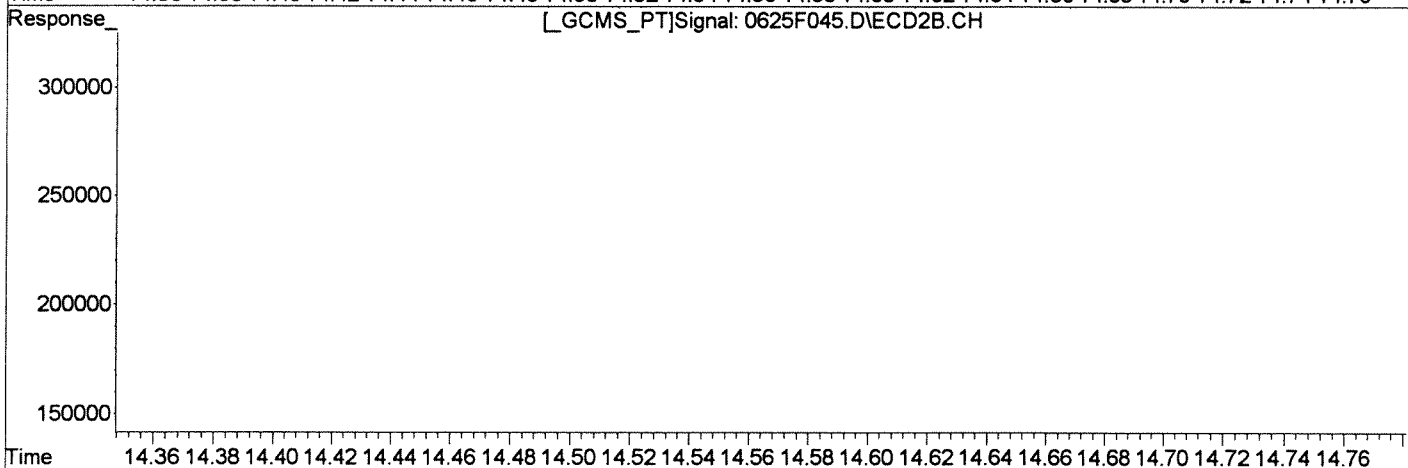
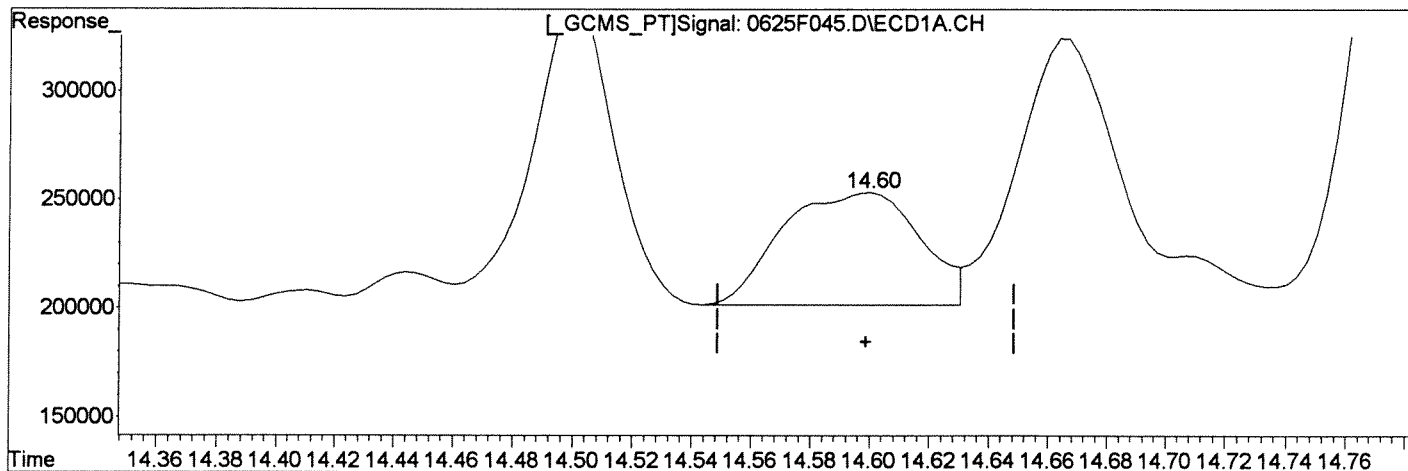
(+) = Expected Retention Time
 0625F045.D GC23-031714-8081.M

Thu Jun 26 14:18:14 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
Sample : KWG1406763-LCS6 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F045.D\ECD1A.CH

Retention Time	Concentration	Response	Integration Status
(30) Toxaphene	14.60min 1177.802ug/L	response 168400	Manual Integration: Before
(30) Toxaphene #2	0.00min 0.000ug/L d	response 0	06/26/14

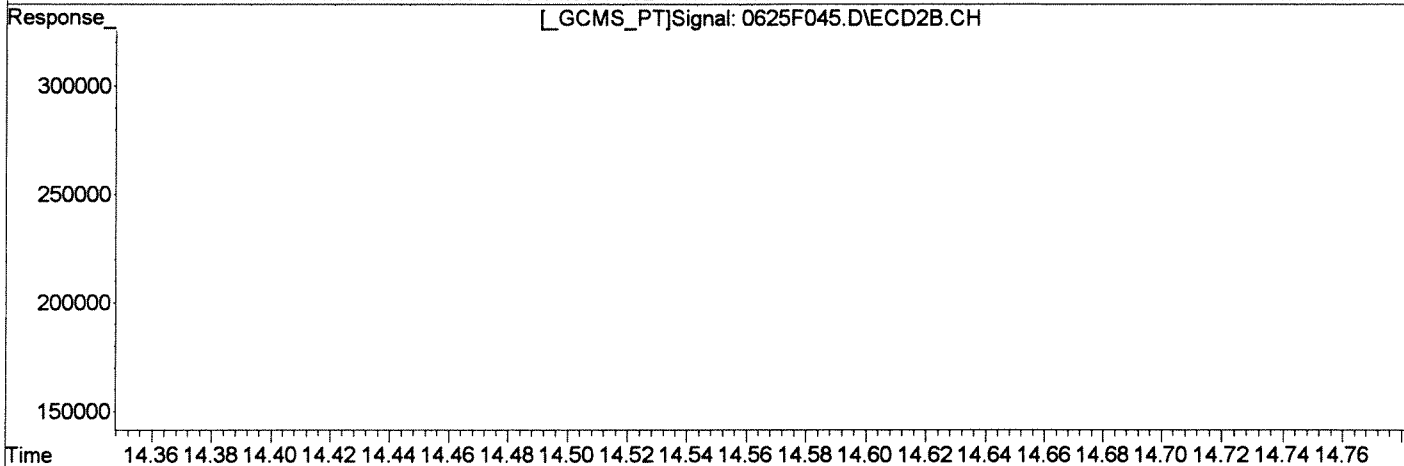
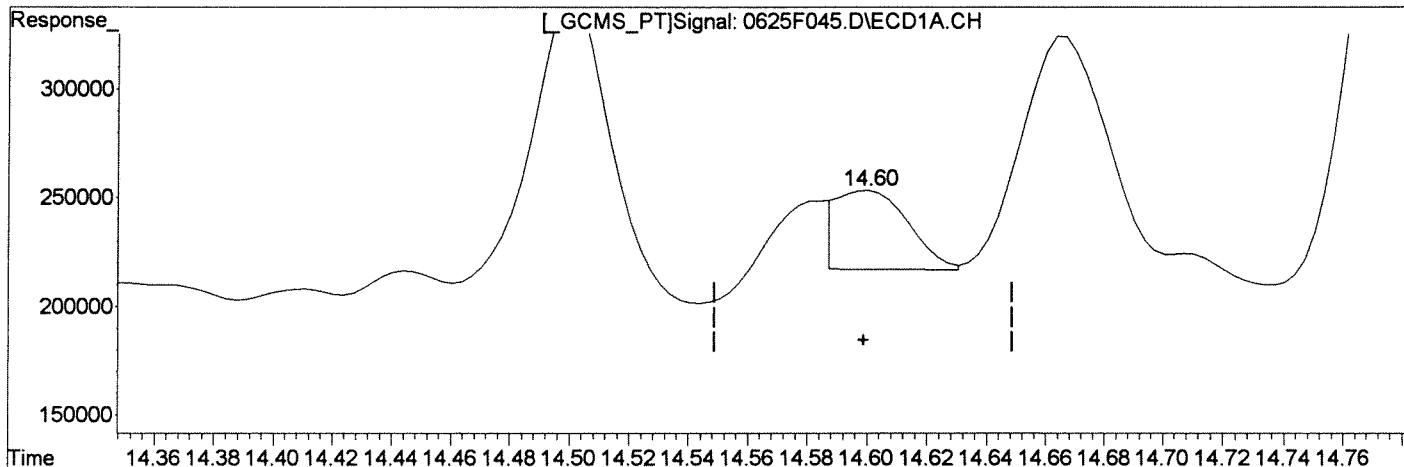
(+) = Expected Retention Time
0625F045.D GC23-031714-8081.M

Thu Jun 26 14:18:18 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
Sample : KWG1406763-LCS6 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F045.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.60min 406.300ug/L m	After
response 58092	Baseline/Shoulder
	06/26/14
(30) Toxaphene #2	
0.00min 0.000ug/L d	
response 0	

Handwritten signature and scribbles are present in the bottom right area of this section.

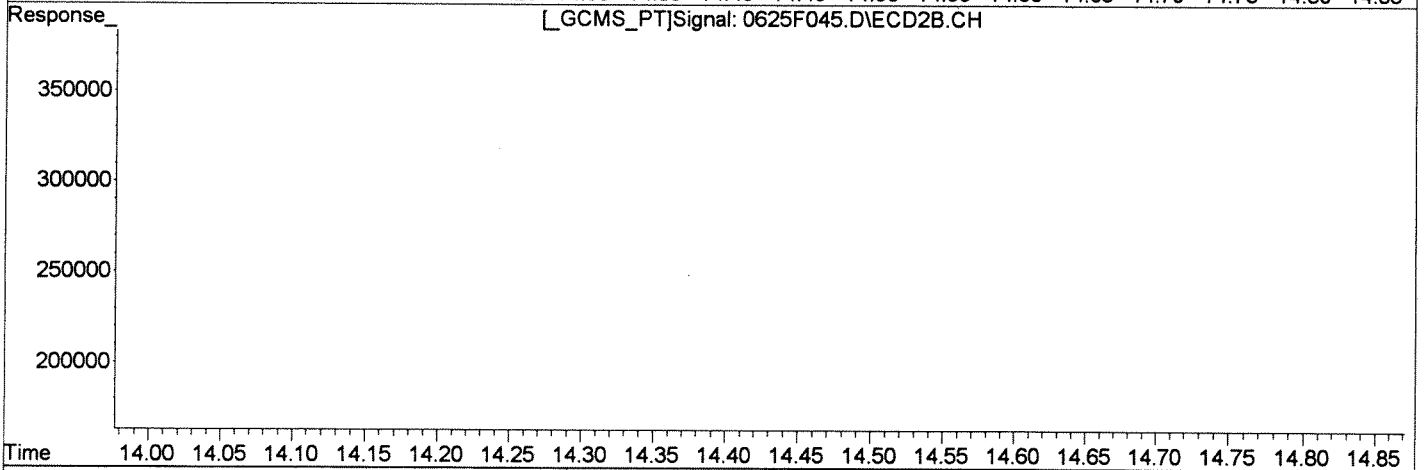
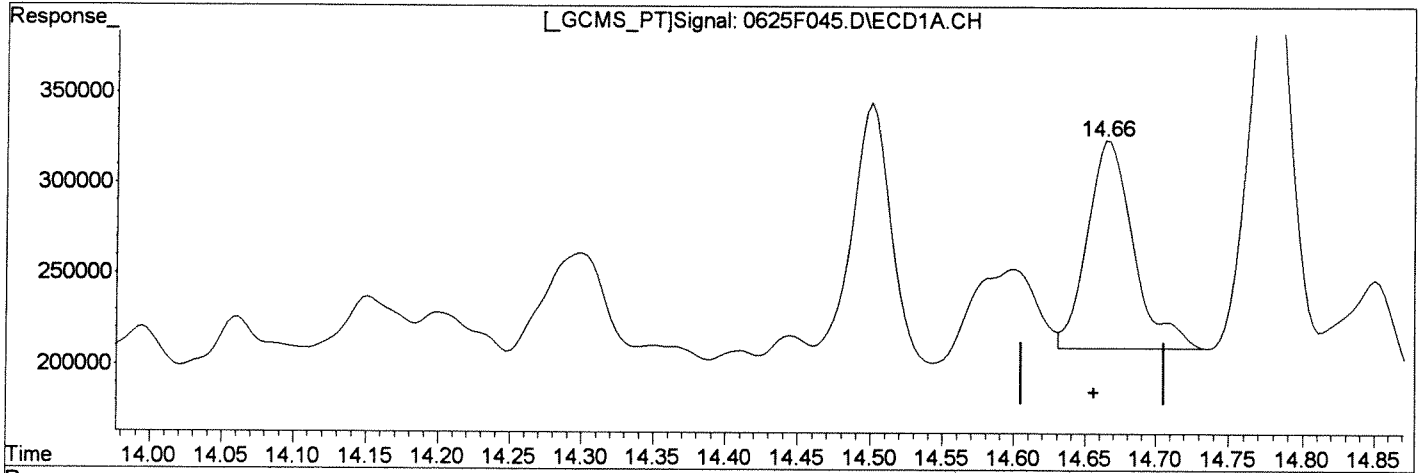
(+) = Expected Retention Time
0625F045.D GC23-031714-8081.M

Thu Jun 26 14:18:21 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
Sample : KWG1406763-LCS6 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F045.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(31) Toxaphene {2}		
14.66min	1235.348ug/L	response 260488
(31) Toxaphene {2} #2		
13.67min	364.487ug/L	response 24576

Manual Integration:
Before
06/26/14

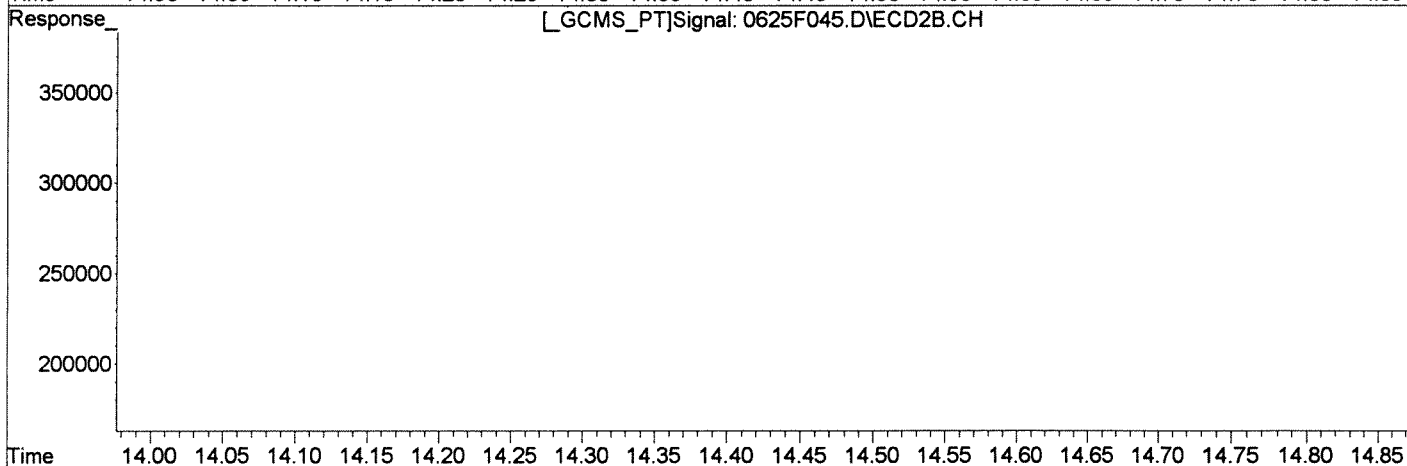
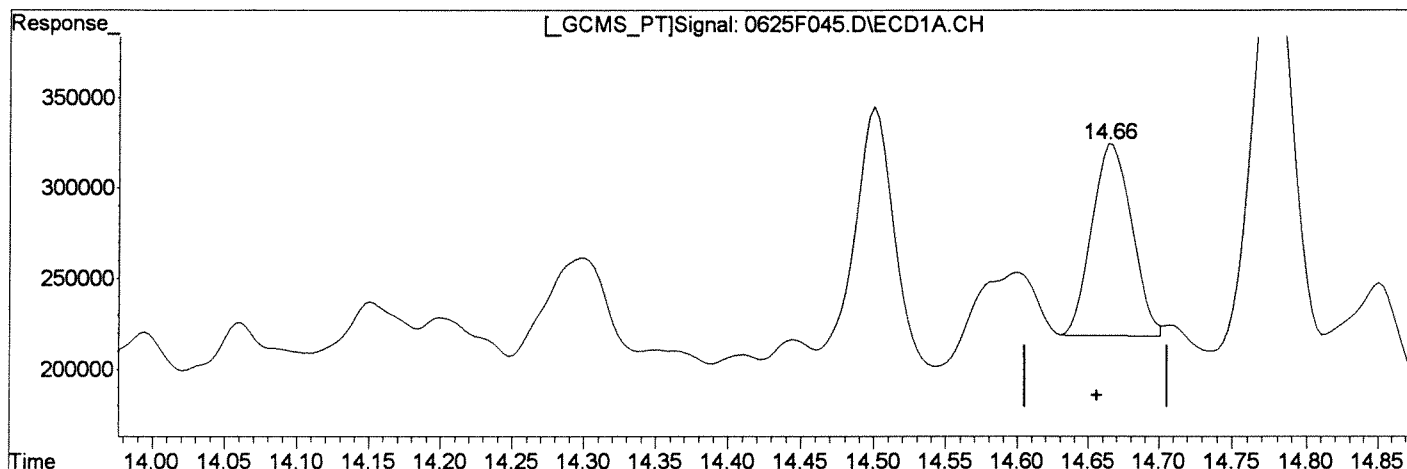
(+) = Expected Retention Time
0625F045.D GC23-031714-8081.M

Thu Jun 26 14:18:25 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
 Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
 Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
 Sample : KWG1406763-LCS6 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F045.D\ECD1A.CH

(31) Toxaphene {2}	Manual Integration:
14.66min 990.486ug/L m	After
response 208856	Baseline/Shoulder
	06/26/14
(31) Toxaphene {2} #2	
13.67min 364.487ug/L	
response 24576	

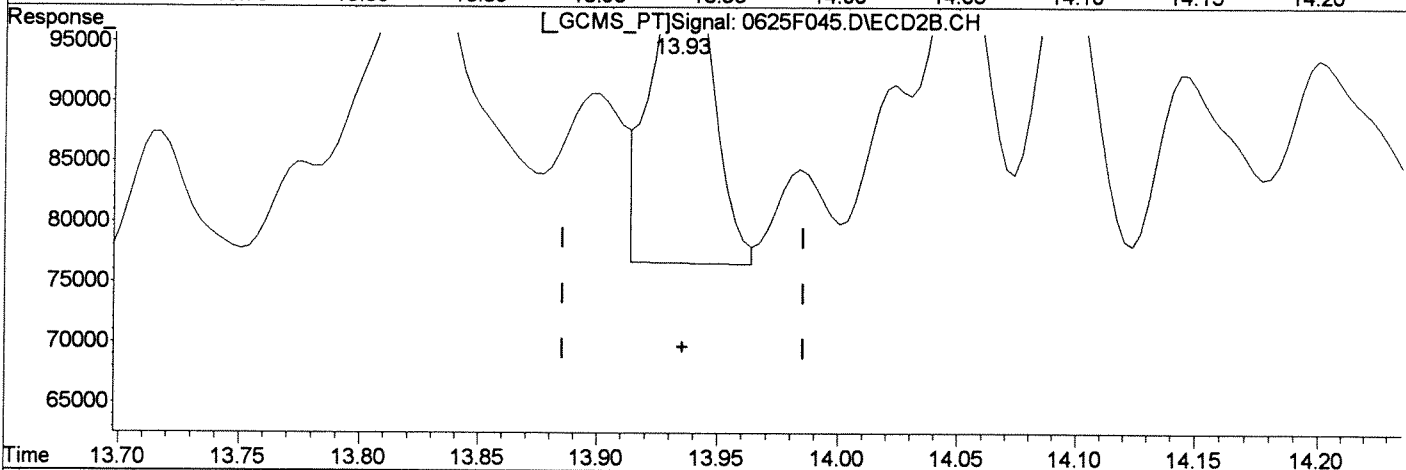
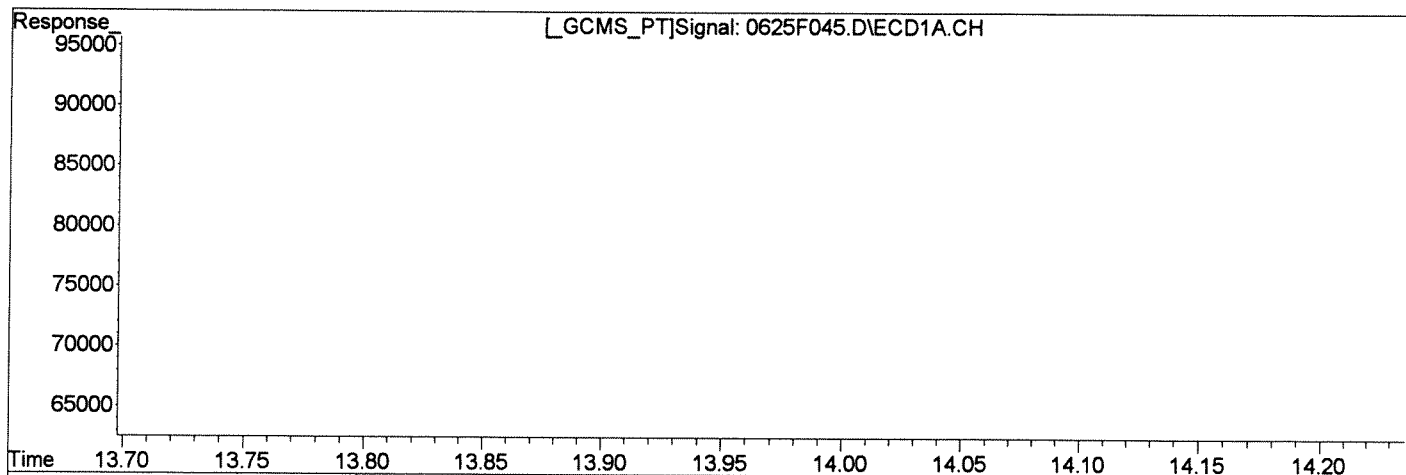
(+) = Expected Retention Time
 0625F045.D GC23-031714-8081.M



Thu Jun 26 14:18:28 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
Sample : KWG1406763-LCS6 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F045.D\ECD1A.CH	
(32) Toxaphene {3}	Manual Integration:
0.00min 0.000ug/L d	Before
response 0	06/26/14
(32) Toxaphene {3} #2	
13.93min 519.022ug/L	
response 47211	

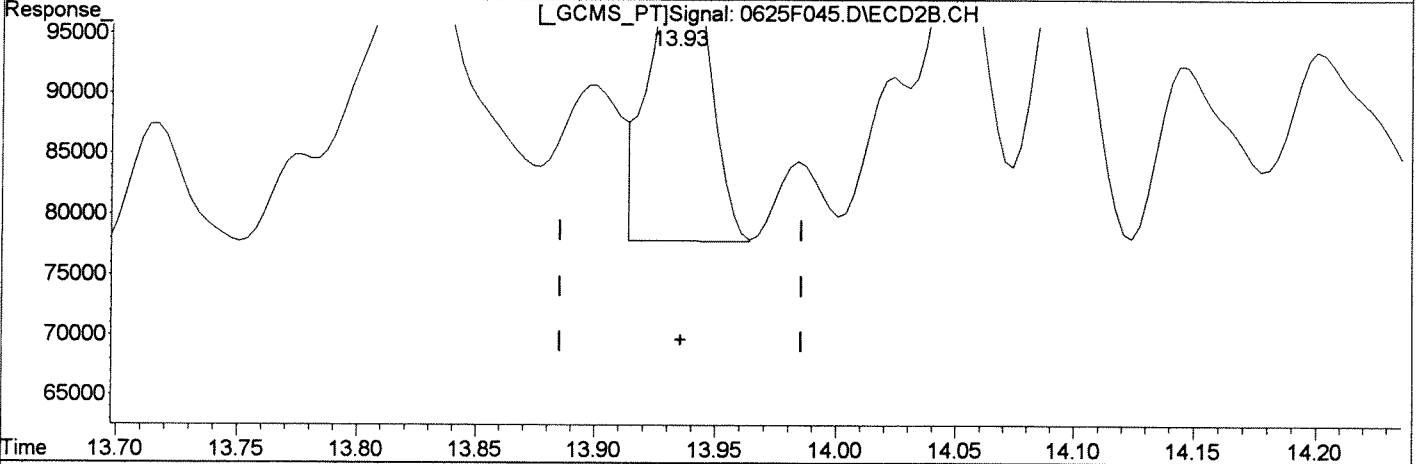
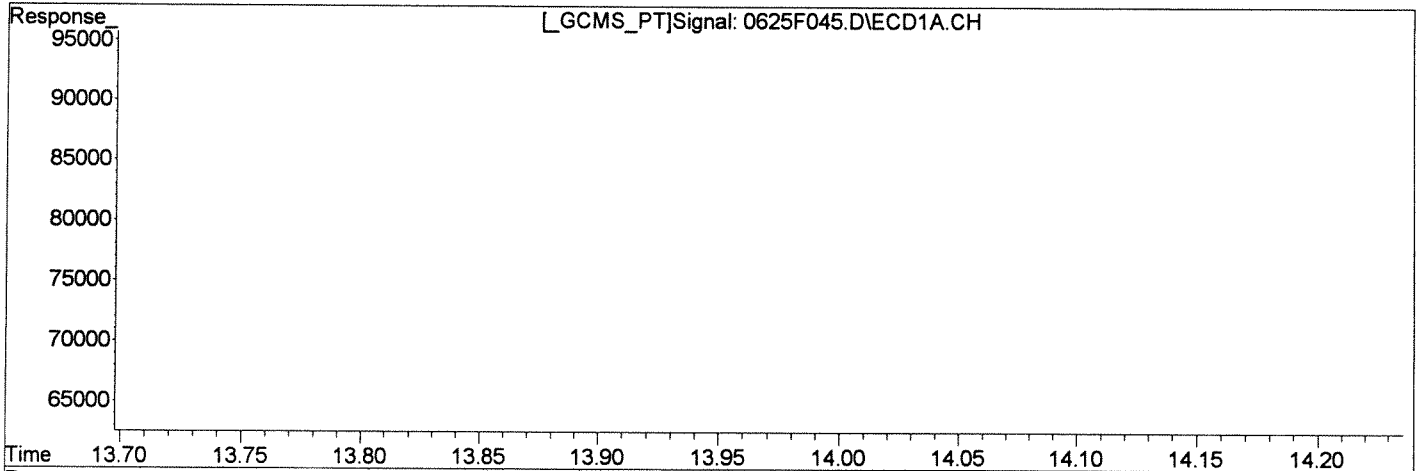
(+) = Expected Retention Time
0625F045.D GC23-031714-8081.M

Thu Jun 26 14:18:31 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
Sample : KWG1406763-LCS6 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F045.D\ECD1A.CH

(32) Toxaphene {3}	Manual Integration:
0.00min 0.000ug/L d	After
response 0	Baseline/Shoulder
	06/26/14
(32) Toxaphene {3} #2	
13.93min 478.653ug/L m	
response 43539	

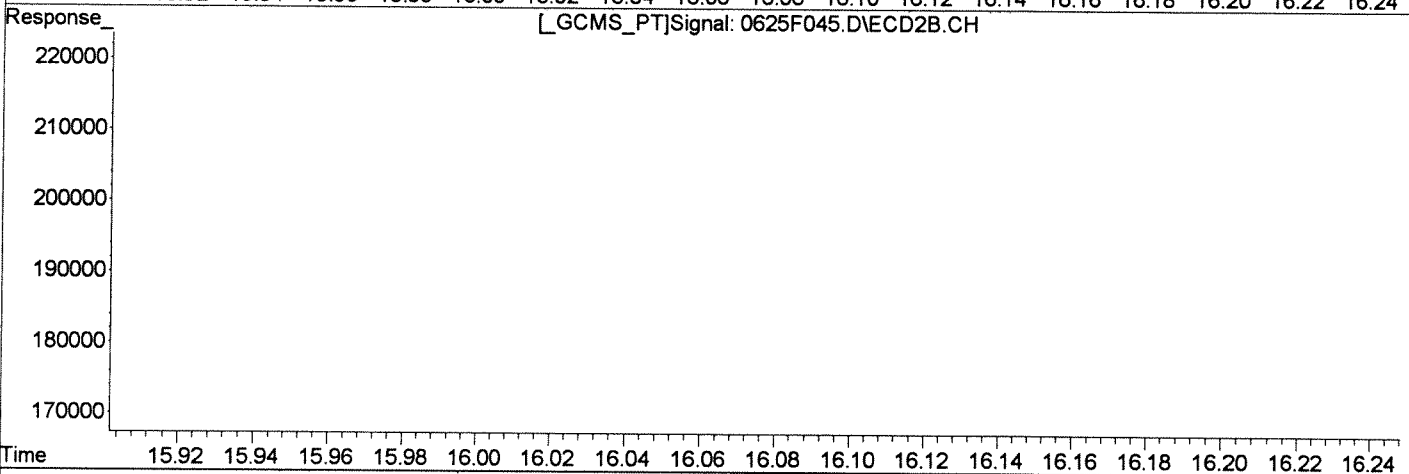
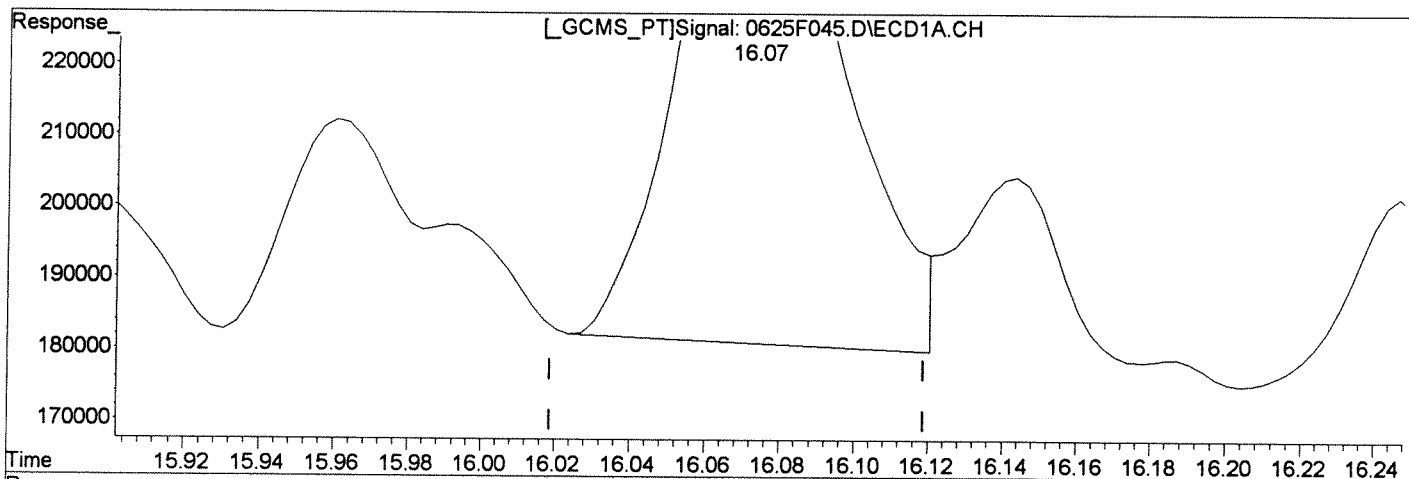
(+) = Expected Retention Time
0625F045.D GC23-031714-8081.M

Thu Jun 26 14:18:35 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
Sample : KWG1406763-LCS6 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F045.D\ECD1A.CH

(35) Toxaphene (6)	Manual Integration:
16.07min 613.944ug/L	Before
response 260456	06/26/14
(35) Toxaphene (6) #2	
14.87min 462.082ug/L	
response 69313	

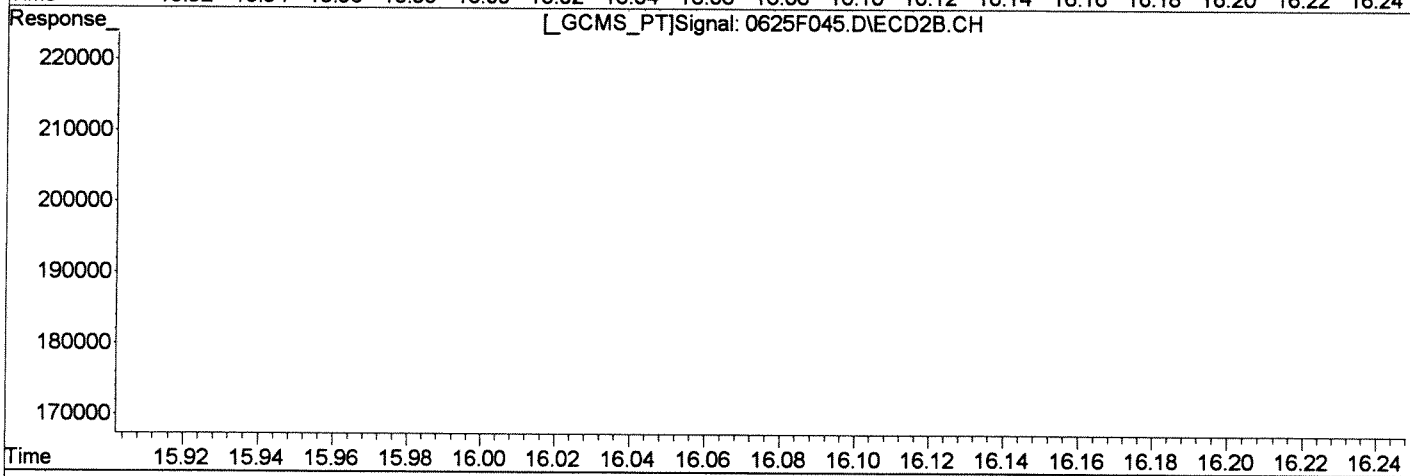
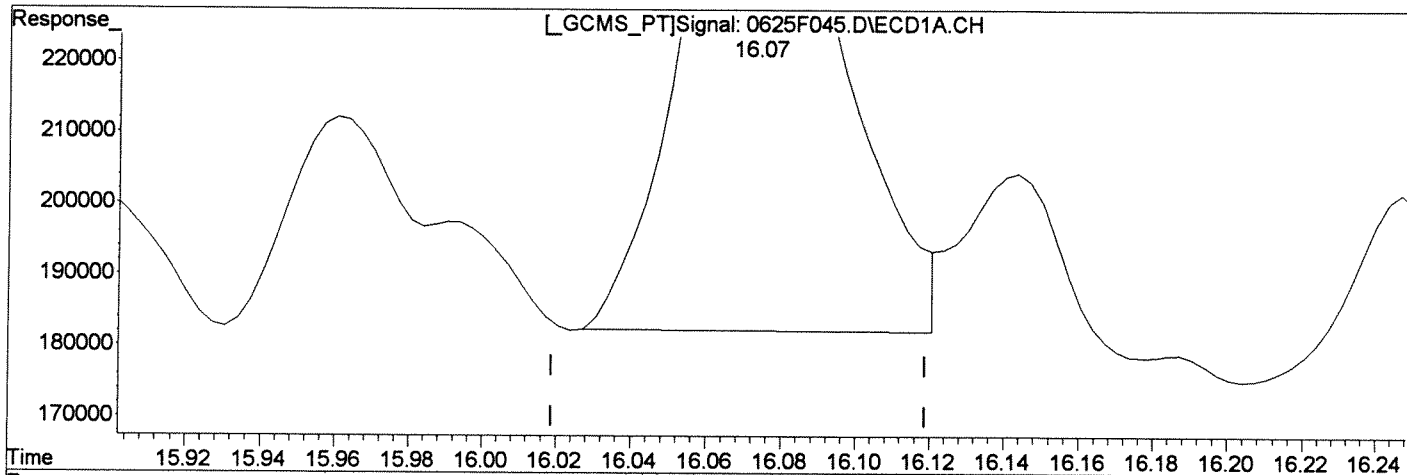
(+) = Expected Retention Time

0625F045.D GC23-031714-8081.M Thu Jun 26 14:18:40 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F045.D\ECD1A.CH Vial: 38
 Signal #2 : J:\GC23\DATA\062514\0625F045.D\ECD2B.CH
 Acq On : 26 Jun 2014 11:45 am Operator: SMURRAY
 Sample : KWG1406763-LCS6 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F045.D\ECD1A.CH

(35) Toxaphene (6)	Manual Integration:
16.07min 597.510ug/L m	After
response 253484	Baseline/Shoulder
	06/26/14
(35) Toxaphene (6) #2	
14.87min 462.082ug/L	
response 69313	

(+) = Expected Retention Time
 0625F045.D GC23-031714-8081.M Thu Jun 26 14:18:44 2014

Exception Report

Data File: J:\GC23\DATA\062514\0625F046.D
Lab ID: KWG1406763-3
RunType: LCS
Matrix: WATER

Date Acquired: 06/26/2014 12:14
Date Quantitated: 06/26/2014 14:19
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	461.666666	7846.666666	NR
	1-Bromo-2-nitrobenzene {3}	0	579.916666	10319.666666	
	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	

Primary Review: _____

Secondary Review: _____

Exception Report

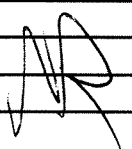
Data File: J:\GC23\DATA\062514\0625F046.D\0625F046C.D
Lab ID: KWG1406763-3
RunType: LCS
Matrix: WATER

Date Acquired: 06/26/2014 12:14
Date Quantitated: 06/26/2014 14:19
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
	1-Bromo-2-nitrobenzene {4}	0	6189.083333	24756.33333	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F046.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F046.D\0625F046c.d	Vial:	39
Acqu Date:	06/26/2014 12:14	Quant Date:	06/26/2014 14:19
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1406763-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	WATER
Prod Code:	8081B Pest OC	Collect Date:		Receive Date:	06/25/2014

Analysis Lot:	KWG1406791	Prep Lot:	KWG1406763	Report Group:	
Analysis Method:	8081B	Prep Method:	EPA 3535A		
Prep Ref:	1351005	Prep Date:	06/16/2014		

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:	J:\GC23\DATA\062514\0625F047.D	Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06 ^{-0.10}	5.48 ^{-0.07}	2148120	878067	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.81 ^{-0.01}	7.27	1537441	665706	59.85	57.45	NR
						%Recovery =	60 OK 57 OK	Limits = 20-106
1	Decachlorobiphenyl	18.51 ^{-0.01}	17.07 ^{-0.01}	1555192	665502	68.61	67.76	NR
						%Recovery =	69 OK 68 OK	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-BHC			0d	0d	0.0000	0.0000	0.00033U	0.00033U	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	0.00031U	0.00031U	0.00031U
1	beta-BHC			0d	0d	0.0000	0.0000	0.00083U	0.00083U	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	delta-BHC			0d	0d	0.0000	0.0000	0.00057U	0.00057U	NR
1	Heptachlor			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Aldrin			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	Isodrin			0d	0d	0.0000	0.0000	0.00056U	0.00056U	0.00056U
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F046.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F046.D\0625F046c.d	Vial:	39
Acqu Date:	06/26/2014 12:14	Quant Date:	06/26/2014 14:19
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1406763-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

					Final Conc. Units: ug/L					
IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000	0.00032U	0.00032U	NR
1	Endosulfan I			0d	0d	0.0000	0.0000	0.00044U	0.00044U	NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000	0.0040U	0.0040U	NR
1	Dieldrin			0d	0d	0.0000	0.0000	0.00035U	0.00035U	NR
1	4,4'-DDE			0d	0d	0.0000	0.0000	0.00036U	0.00036U	NR
1	Endrin			0d	0d	0.0000	0.0000	0.00068U	0.00068U	NR
1	Endosulfan II			0d	0d	0.0000	0.0000	0.00040U	0.00040U	NR
1	4,4'-DDD			0d	0d	0.0000	0.0000	0.0015U	0.0015U	NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000	0.00046U	0.00046U	NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000	0.00047U	0.00047U	0.00047U
1	4,4'-DDT			0d	0d	0.0000	0.0000	0.00058U	0.00058U	NR
1	Endrin Ketone			0d	0d	0.0000	0.0000	0.00066U	0.00066U	NR
1	Methoxychlor			0d	0d	0.0000	0.0000	0.00093U	0.00093U	NR
1	2,4'-DDE	13.08 ^{-0.01}	12.02	1321198	573462	73.60	73.88	0.147	0.148	0.147
1	2,4'-DDD	13.81 ^{-0.01}	12.79 ^{-0.01}	1158925	489497	70.92	69.22	0.142	0.138	0.138
1	2,4'-DDT	14.31 ^{-0.01}	13.21 ^{-0.01}	1293706	518837	76.00	69.07	0.152	0.138	0.138
	Toxaphene			0	0	0.0000	0.0000	0.0510U	0.0510U	NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {2}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {3}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {4}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {5}			0d	0d	0.0000	0.0000	0.051U	0.051U	
2	Toxaphene {6}			0d	0d	0.0000	0.0000	0.051U	0.051U	
	Chlordane			0	0	0.0000	0.0000	0.0220U	0.0220U	NR
3	Chlordane {1}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {2}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {3}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {4}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {5}			0d	0d	0.0000	0.0000	0.022U	0.022U	
3	Chlordane {6}			0d	0d	0.0000	0.0000	0.022U	0.022U	
4	Chlorpyrifos			0d	0d	0.0000	0.0000	0.00083U	0.00083U	0.00083U
4	Oxychlordane			0d	0d	0.0000	0.0000	0.0010U	0.0010U	NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000	0.00060U	0.00060U	NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000	0.00092U	0.00092U	NR
4	Mirex			0d	0d	0.0000	0.0000	0.00081U	0.00081U	NR
4	Hexachloroethane			0d	0d	0.0000	0.0000	0.0012U	0.0012U	0.0012U
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000	0.0019U	0.0019U	0.0019U
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 D: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F046.D\ECD1A.CH Vial: 39
 Signal #2 : J:\GC23\DATA\062514\0625F046.D\ECD2B.CH
 Acq On : 26 Jun 2014 12:14 pm Operator: SMURRAY
 Sample : KWG1406763-LCS9 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:19:04 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

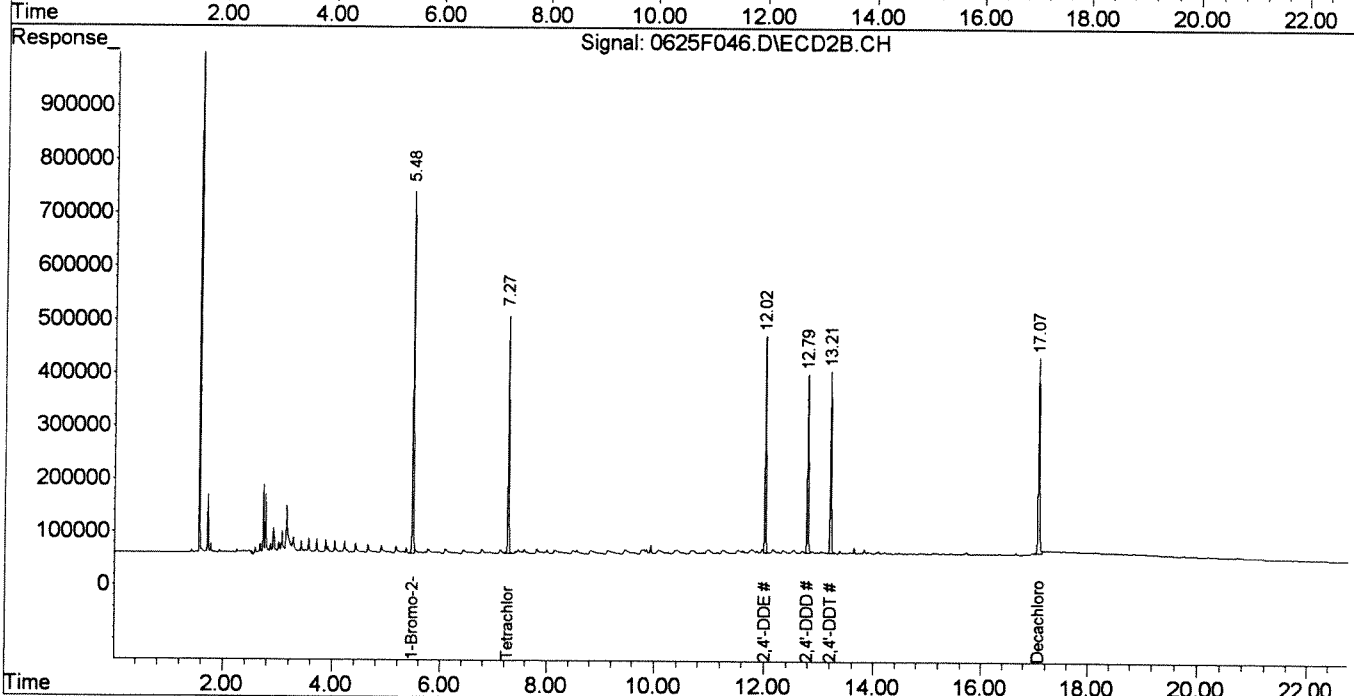
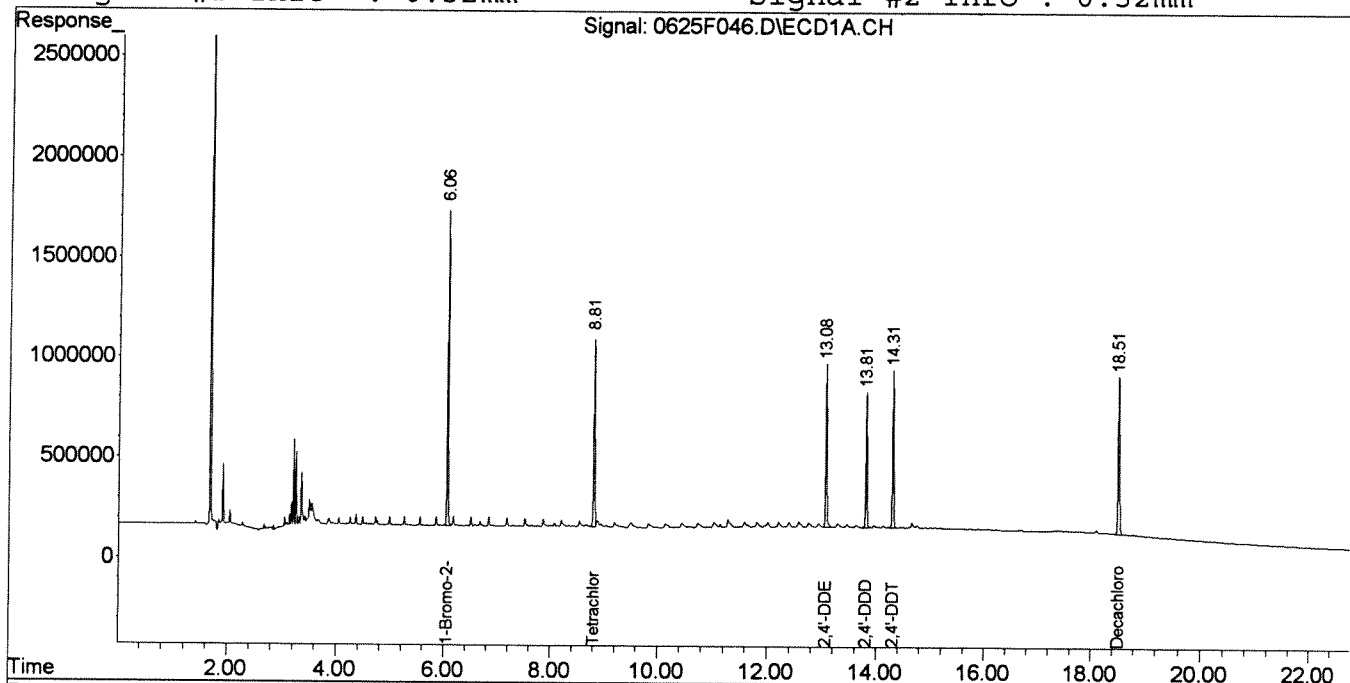
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.48	2148120	878067	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.81	7.27	1537441	665706	59.845	57.452
28) s Decachlorobiphen	18.51	17.07	1555192	665502	68.613	67.758
Target Compounds						
25) 2,4'-DDE	13.08	12.02	1321198	573462	73.601	73.881
26) 2,4'-DDD	13.81	12.79	1158925	489497	70.917	69.223
27) 2,4'-DDT	14.31	13.21	1293706	518837	75.995	69.070

Signal #1 : J:\GC23\DATA\062514\0625F046.D\ECD1A.CH Vial: 39
 Signal #2 : J:\GC23\DATA\062514\0625F046.D\ECD2B.CH
 Acq On : 26 Jun 2014 12:14 pm Operator: SMURRAY
 Sample : KWG1406763-LCS9 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 14:19 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Injection Log

Directory: J:\GC23\DATA\031714ICAL

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	80	0317F012.D	1.	TOX @ 200ppb GCPS7-77J	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 6:25
2	81	0317F013.D	1.	TOX @ 250ppb GCPS7-77K	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 6:54
3	82	0317F014.D	1.	TOX @ 500ppb GCPS7-77L	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 7:23
4	83	0317F015.D	1.	TOX @ 1000ppb GCPS7-77M	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 7:51
5	84	0317F016.D	1.	TOX @ 2000ppb GCPS7-77N	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 8:20
6	85	0317F017.D	1.	TOX @ 5000ppb GCPS7-77O	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 8:49
7	86	0317F018.D	1.	TOX @ 1000ppb GCPS7-79L	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 9:18
8	88	0317F020.D	1.	CHLOR @ ²⁵ 50ppb GCPS7-78B	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 10:11
9	89	0317F021.D	1.	CHLOR @ ⁵⁰ 100ppb GCPS7-78C	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 10:41
10	91	0317F023.D	1.	CHLOR @ ⁵⁰⁰ 1000ppb GCPS7-78D	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 11:41
11	92	0317F024.D	1.	CHLOR @ ¹⁰⁰⁰ 2000ppb GCPS7-79G	SEMIVOA GC\W0617642\3-CCV.H	03/18/22014 12:11
12	93	0317F025.D	1.	CHLOR @ 800ppb GCPS7-80A-NR	SEMIVOA GC\W0617642\3-CCV.H	03/18/22014 12:41
13	94	0317F026.D	1.	MISC @ 2ppb GCPS7-80C	SEMIVOA GC\W0617642\3-CCV.H	03/18/22014 1:08
14	95	0317F027.D	1.	MISC @ 5ppb GCPS7-80D	SEMIVOA GC\W0617642\3-CCV.H	03/18/22014 1:37
15	96	0317F028.D	1.	MISC @ 20ppb GCPS7-80E	SEMIVOA GC\W0617642\3-CCV.H	03/18/22014 2:06
16	97	0317F029.D	1.	MISC @ 50ppb GCPS7-80F	SEMIVOA GC\W0617642\3-CCV.H	03/18/22014 2:35
17	98	0317F030.D	1.	MISC @ 75ppb GCPS7-80G	SEMIVOA GC\W0617642\3-CCV.H	03/18/22014 3:04
18	99	0317F031.D	1.	MISC @ 100ppb GCPS7-80H	SEMIVOA GC\W0617642\3-CCV.H	03/18/22014 3:32
19	100	0317F032.D	1.	MISC @ 40ppb GCPS7-80I @25X	SEMIVOA GC\W0617642\3-CCV.H	03/18/22014 4:01
20	1	0317FX01.D	1.	PRIMER	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 12:41
21	1	0317FX02.D	1.	PRIMER	SEMIVOA GC\W0617642\3-CCV.H	03/17/22014 1:09
22	100	0317FX50.D	1.	CHLOR @800PPB GCPS7-80A ICV REINJ-NR	SEMIVOA GC\W0617642\3-CCV.H	03/18/22014 4:58
23	98	0319FX05.D	1.	CHLOR @100PPB GCPS7-78C OK	SEMIVOA GC\W0617642\3-CCV.H	03/19/22014 4:15
24	99	0319FX06.D	1.	CHLOR @2000PPB GCPS7-79G OK	SEMIVOA GC\W0617642\3-CCV.H	03/19/22014 4:44
25	100	0319FX07.D	1.	CHLOR @1000PPB GCPS7-47D@1KX OK	SEMIVOA GC\W0617642\3-CCV.H	03/19/22014 5:14

SOM

CAL: 13214

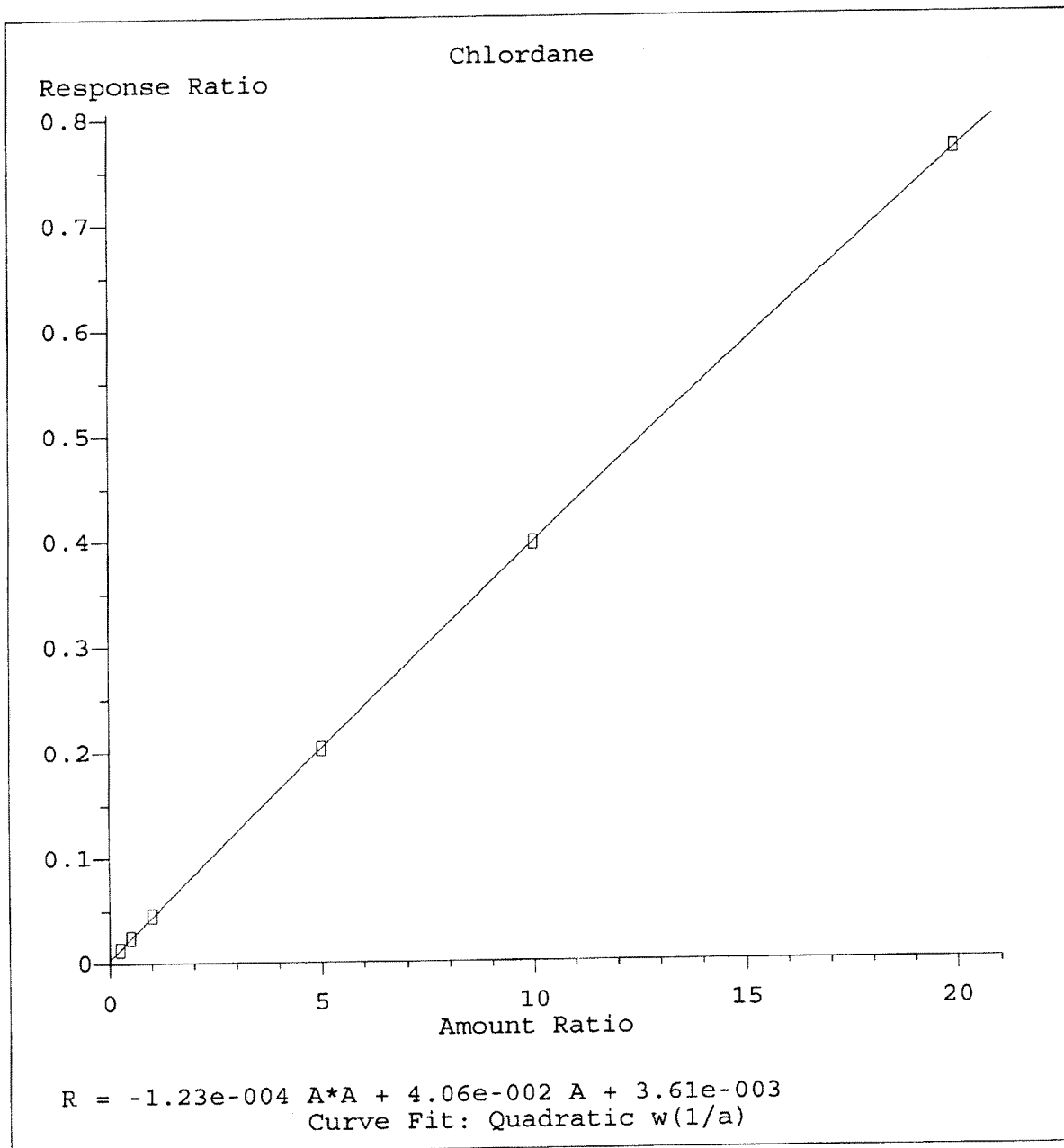
Injection Log

Directory: J:\GC23\DATA\031814C

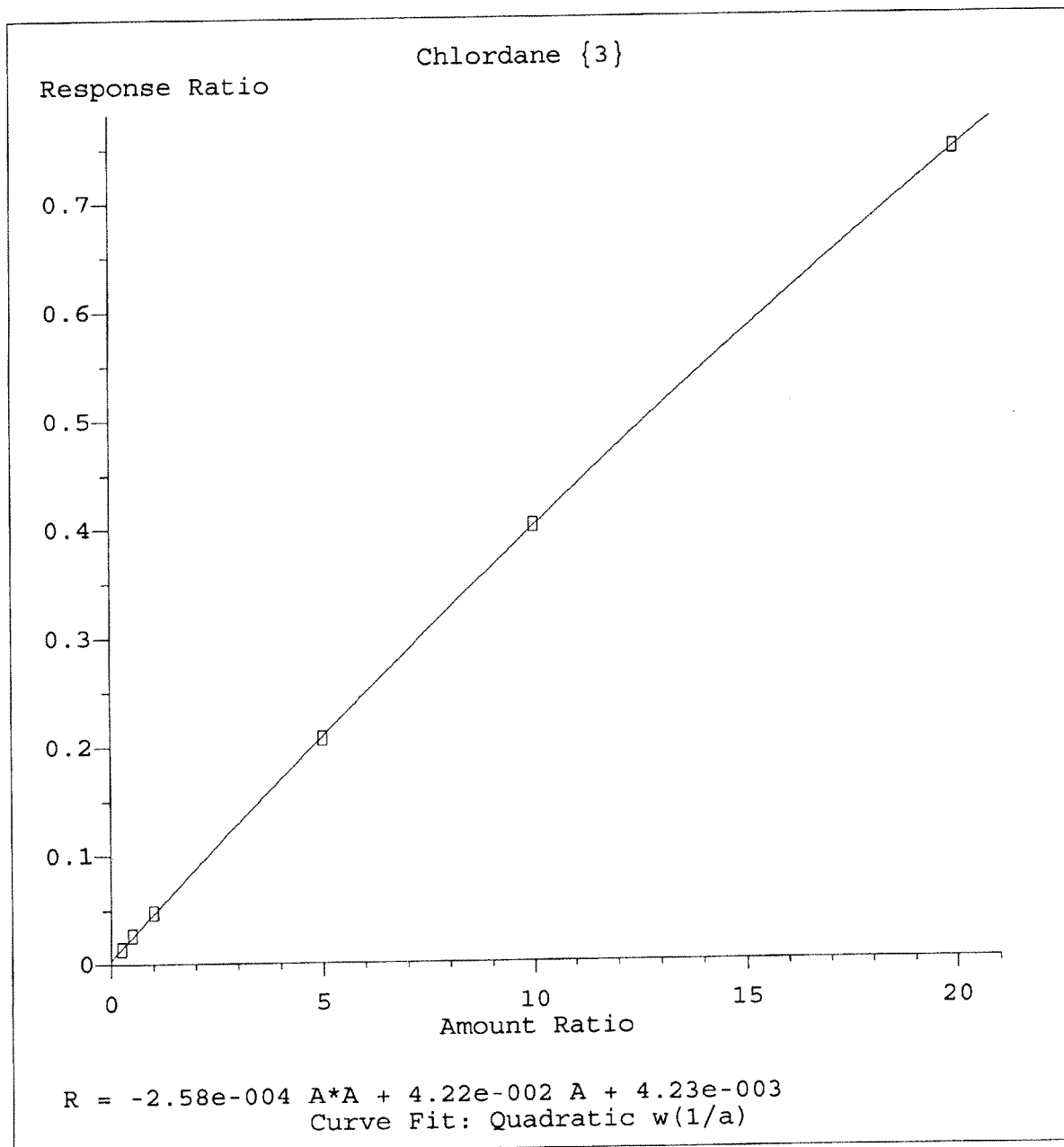
Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0318F002.D	1.	PEM MAINT PRIMER2	SEMIVOA GC\W0617642\3-CCV.H	03/18/2014 10:4:
2	6	0318F003.D	1.	IB	SEMIVOA GC\W0617642\3-CCV.H	03/18/2014 11:1:
3	1	0318F004.D	1.	PEM @50-100PPB GCPS7-48D	SEMIVOA GC\W0617642\3-CCV.H	03/18/2014 11:4:
4	93	0318F005.D	1.	81/24 @ 2ppb GCPS7-77E	SEMIVOA GC\W0617642\3-CCV.H	03/19/2014 12:1:
5	94	0318F006.D	1.	81/24 @ 5ppb GCPS7-77F	SEMIVOA GC\W0617642\3-CCV.H	03/19/2014 12:4:
6	95	0318F007.D	1.	81/24 @ 20ppb GCPS7-77G	SEMIVOA GC\W0617642\3-CCV.H	03/19/2014 1:12
7	96	0318F008.D	1.	81/24 @ 50ppb GCPS7-80J	SEMIVOA GC\W0617642\3-CCV.H	03/19/2014 1:41
8	97	0318F009.D	1.	81/24 @ 100ppb GCPS7-77H	SEMIVOA GC\W0617642\3-CCV.H	03/19/2014 2:11
9	98	0318F010.D	1.	81/24 @ 200ppb GCPS7-77I	SEMIVOA GC\W0617642\3-CCV.H	03/19/2014 2:40
10	99	0318F011.D	1.	8081 @ 40ppb GCPS7-79I	SEMIVOA GC\W0617642\3-CCV.H	03/19/2014 3:10
11	100	0318F012.D	1.	2,4'S @ 40ppb GCPS7-79K	SEMIVOA GC\W0617642\3-CCV.H	03/19/2014 3:35
12	1	0318FX01.D	1.	PEM MAINT PRIMER1	SEMIVOA GC\W0617642\3-CCV.H	03/18/2014 10:1:

CNL:

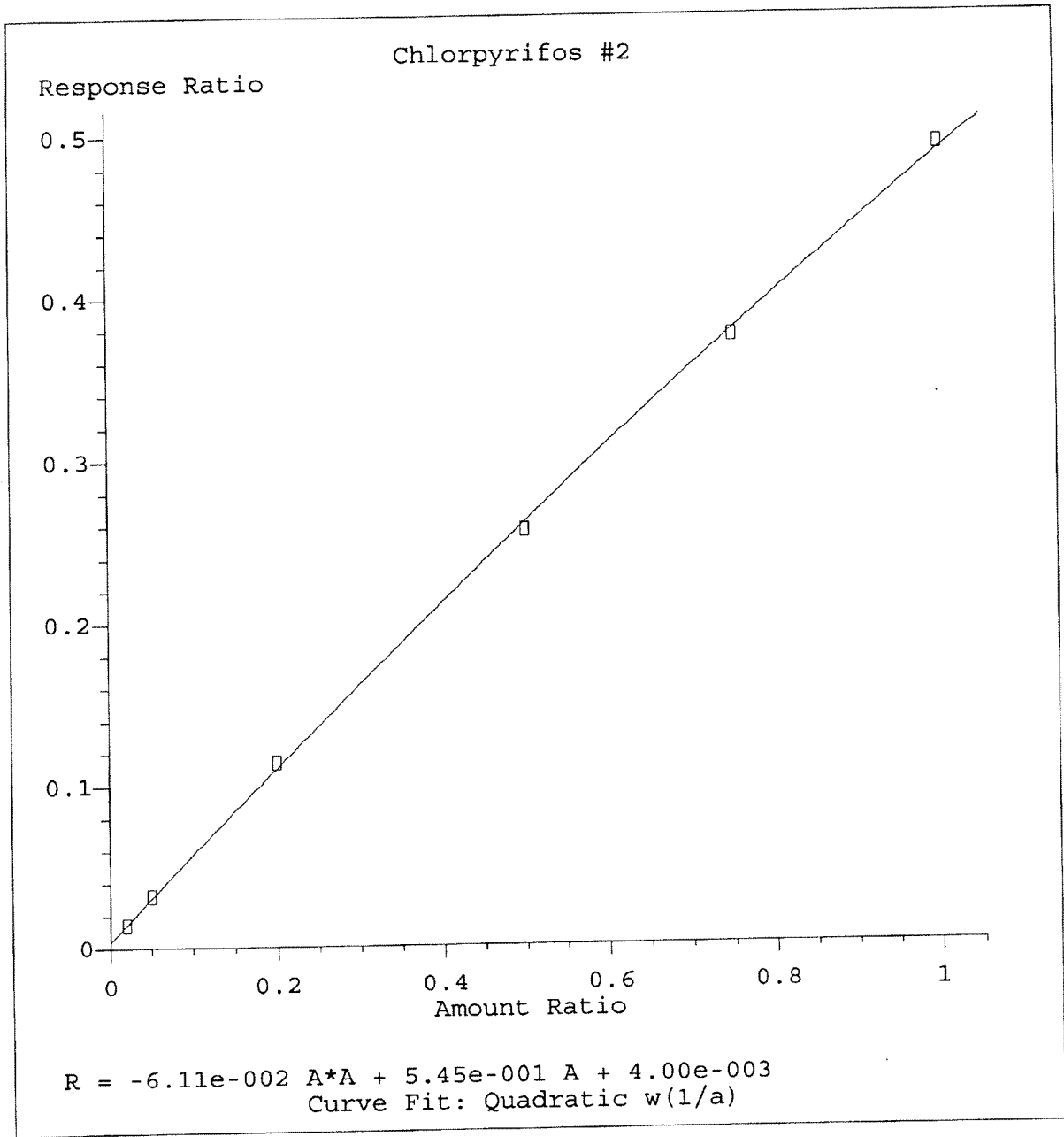
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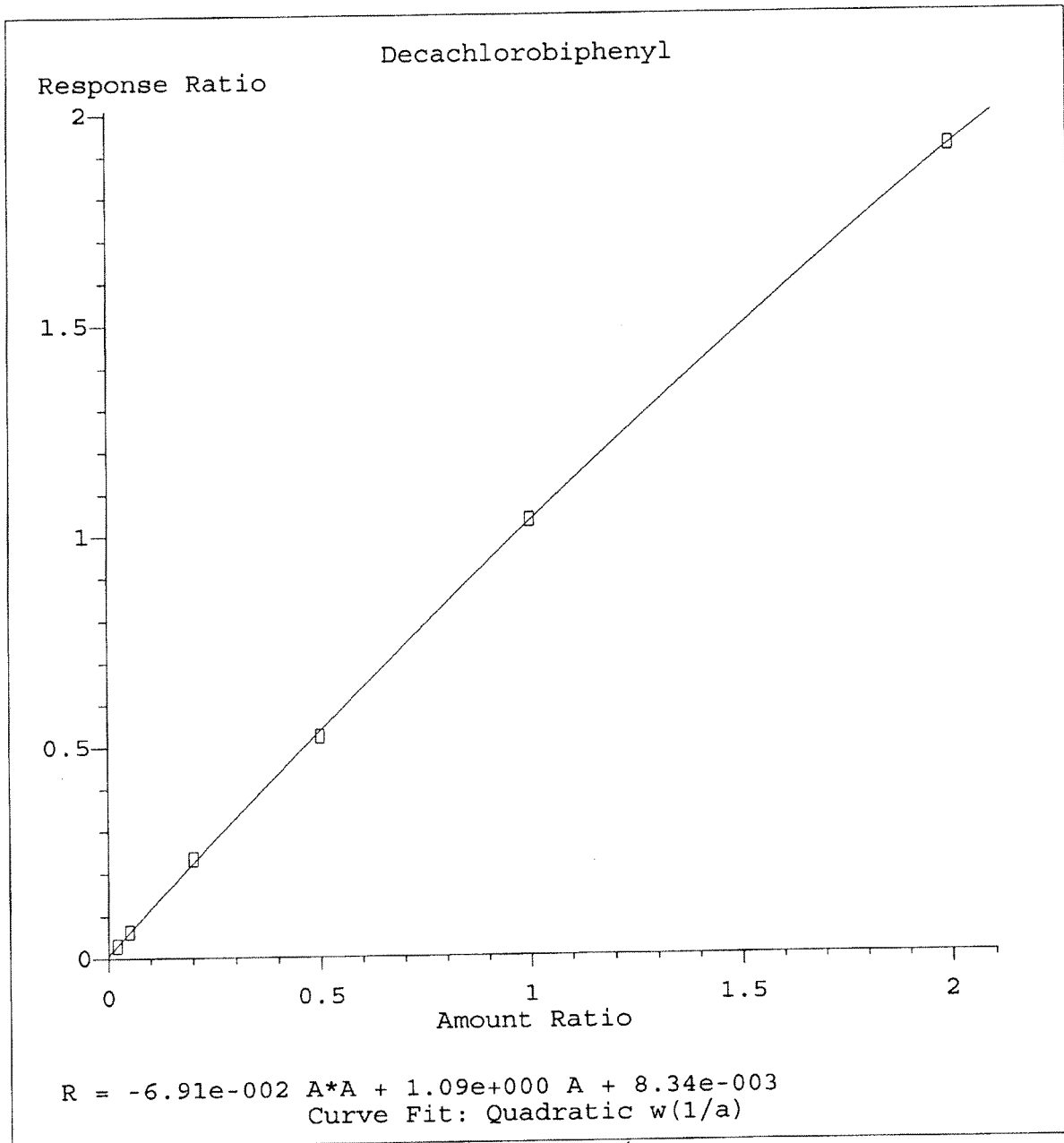
Method Name: J:\GC23\METHODS\GC23-031714-8081.M
Calibration Table Last Updated: Wed Mar 19 17:24:04 2014



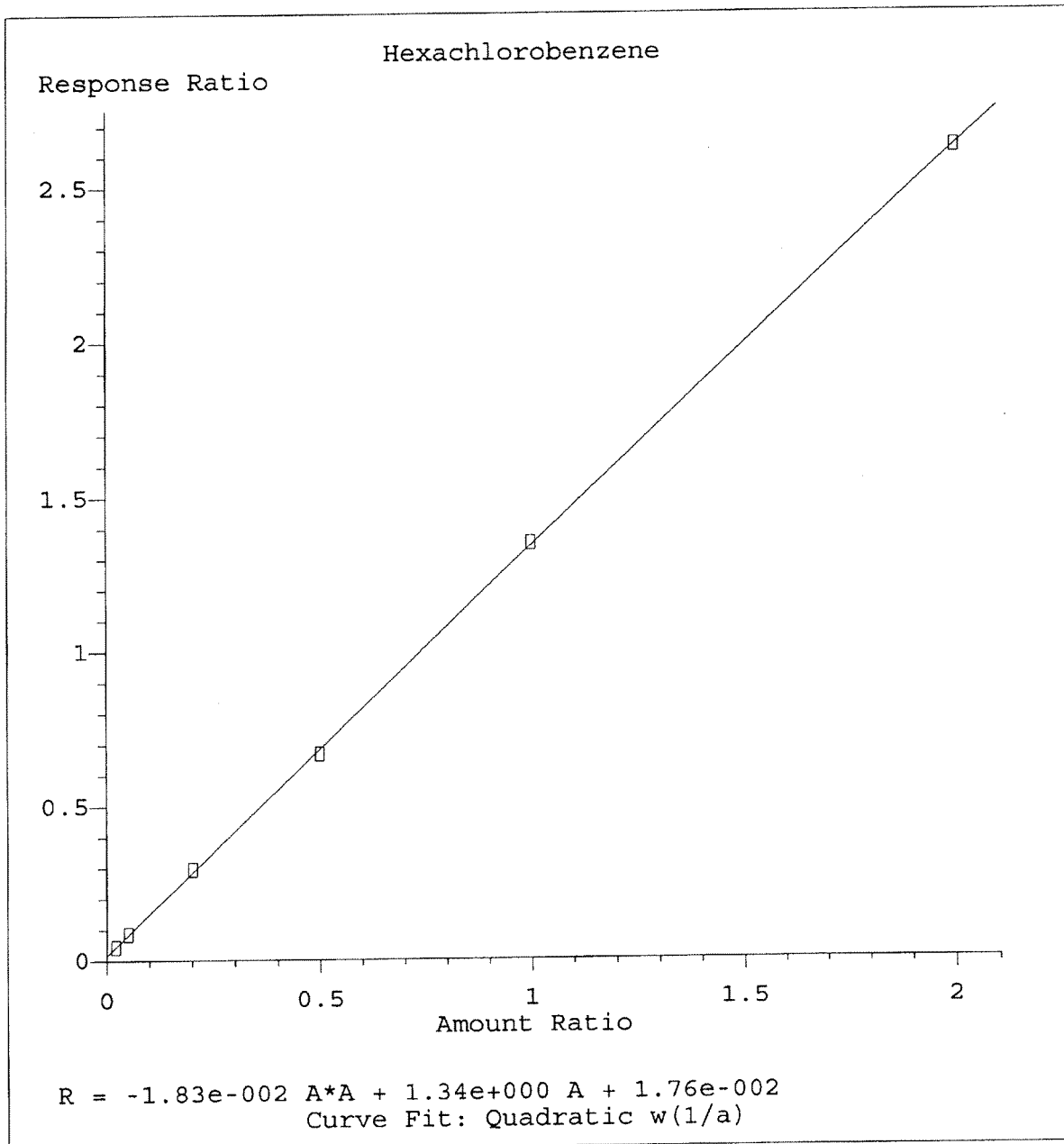
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Calibration Table Last Updated: Wed Mar 19 17:21:05 2014



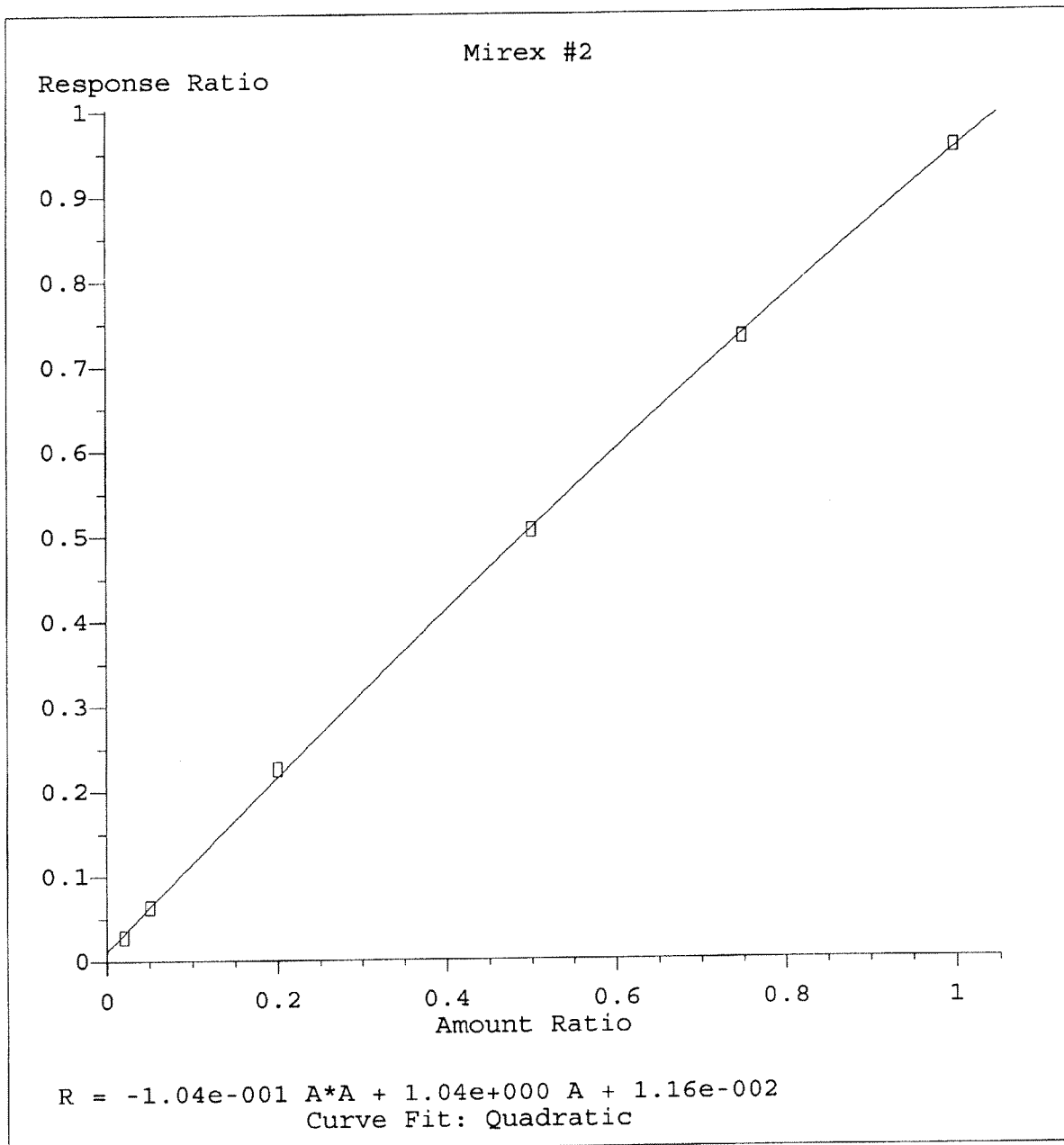
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Calibration Table Last Updated: Tue Mar 18 17:15:17 2014



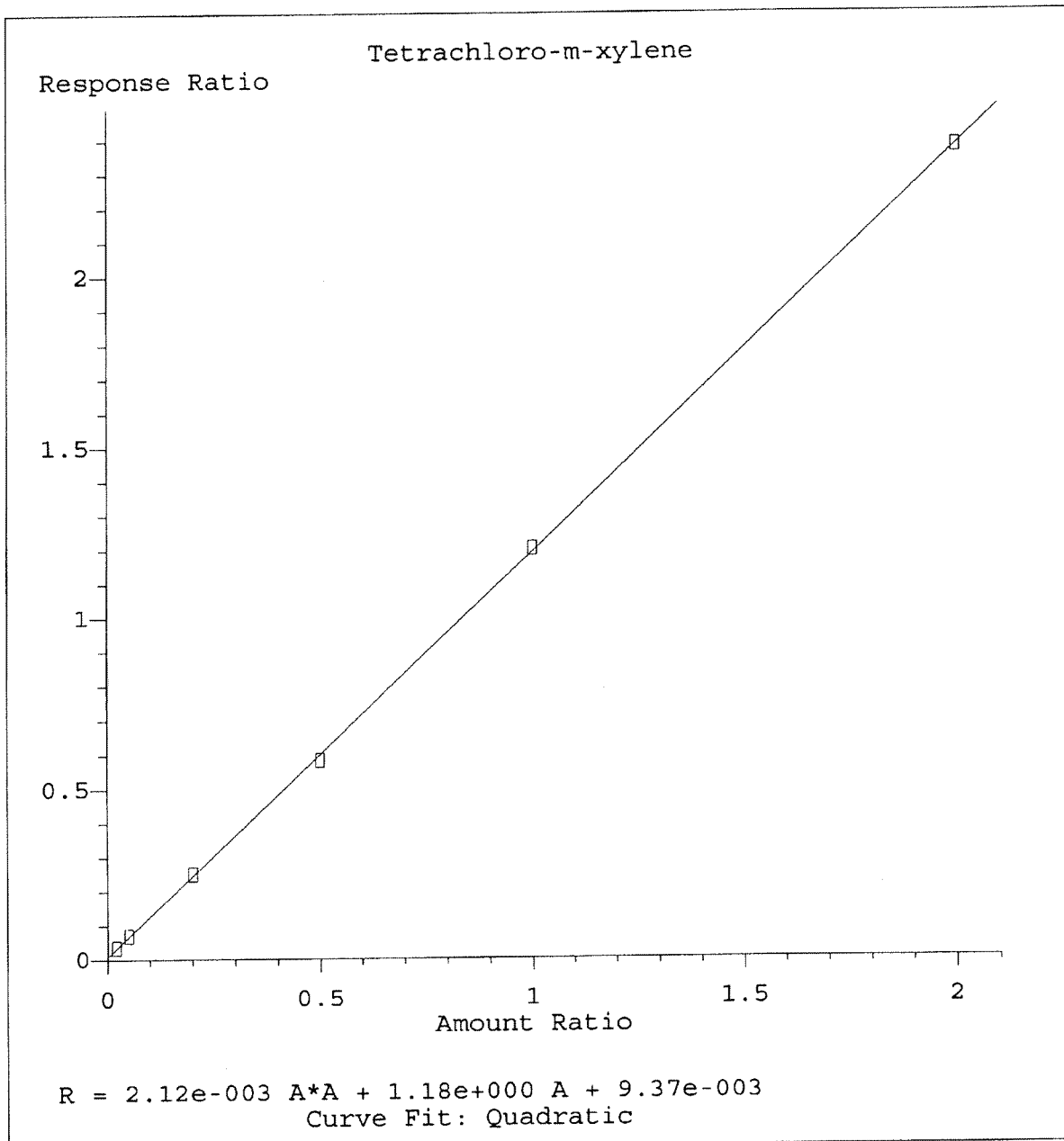
Method Name: J:\GC23\METHODS\GC23-031714-8081.M
Calibration Table Last Updated: Wed Mar 19 12:27:55 2014



Method Name: J:\GC23\METHODS\GC23-031714-8081.M
Calibration Table Last Updated: Wed Mar 19 12:27:55 2014



Method Name: J:\GC23\METHODS\GC23-031714-8081.M
Calibration Table Last Updated: Tue Mar 18 17:15:17 2014



Method Name: J:\GC23\METHODS\GC23-031714-8081.M
Calibration Table Last Updated: Wed Mar 19 12:27:55 2014

Quantitation Report

Data File #1:	J:\GC23\DATA\031814C\0318F004.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\031814C\0318F004.D\0318F004c.d	Vial:	1
Acqu Date:	03/18/2014 23:44	Quant Date:	03/19/2014 10:47
Run Type:	PEM	Dilution:	1.0
Lab ID:		Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:	Tier:	Matrix:
Prod Code:	Collect Date:	Receive Date:

Analysis Lot:	Prep Lot:	Report Group:
Analysis Method: 8081B	Prep Method:	
Prep Ref:	Prep Date:	

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL12895
Title:	Organochlorine Pesticides	Report List ID:	LJ10168
MB Ref:		Method ID:	MJ1006
		Quant based on Report List	

BreakDown Results

Parameter Name	Resp #1	Respe #2	Percent Breakdown #1	Percent Breakdown #1
1-Bromo-2-nitrobenzene	1818956	699921		
4,4'-DDE	5978	2005		
Endrin	860382	359678	6.8	6.7
4,4'-DDD	55049	19679		
Endrin Aldehyde	17491	7350		
4,4'-DDT	1489919	589900	3.9	3.5
Endrin Ketone	44872	18535		

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Quantitation Report

Data File #1:	J:\GC23\DATA\031714ICAL\0317F002.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\031714ICAL\0317F002.D\0317F002c.d	Vial:	70
Acqu Date:	03/17/2014 14:06	Quant Date:	03/18/2014 15:19
Run Type:	PEM	Dilution:	1.0
Lab ID:		Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:	Tier:	Matrix:
Prod Code:	Collect Date:	Receive Date:

Analysis Lot:	Prep Lot:	Report Group:
Analysis Method: 8081B	Prep Method:	
Prep Ref:	Prep Date:	

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL12895
Title:	Organochlorine Pesticides	Report List ID:	LJ10168
MB Ref:		Method ID:	MJ1006
		Quant based on Report List	

BreakDown Results

Parameter Name	Resp #1	Respe #2	Percent Breakdown #1	Percent Breakdown #1
1-Bromo-2-nitrobenzene	1752939	635073		
4,4'-DDE	7373	4242		
Endrin	762378	303305	9.7	10.6
4,4'-DDD	50855	21170		
Endrin Aldehyde	29813	12546		
4,4'-DDT	1346104	509873	4.1	4.7
Endrin Ketone	52164	23310		

U: Undetected at or above MDL
 F: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F004.D\ECD1A.CH Vial: 1
 Signal #2 : J:\GC23\DATA\031814C\0318F004.D\ECD2B.CH
 Acq On : 18 Mar 2014 11:44 pm Operator: SMURRAY
 Sample : PEM @50-100PPB GCP57-48D Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 10:47:37 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 18:14:57 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.15	5.55	1818956	699921	100.000	100.000

System Monitoring Compounds

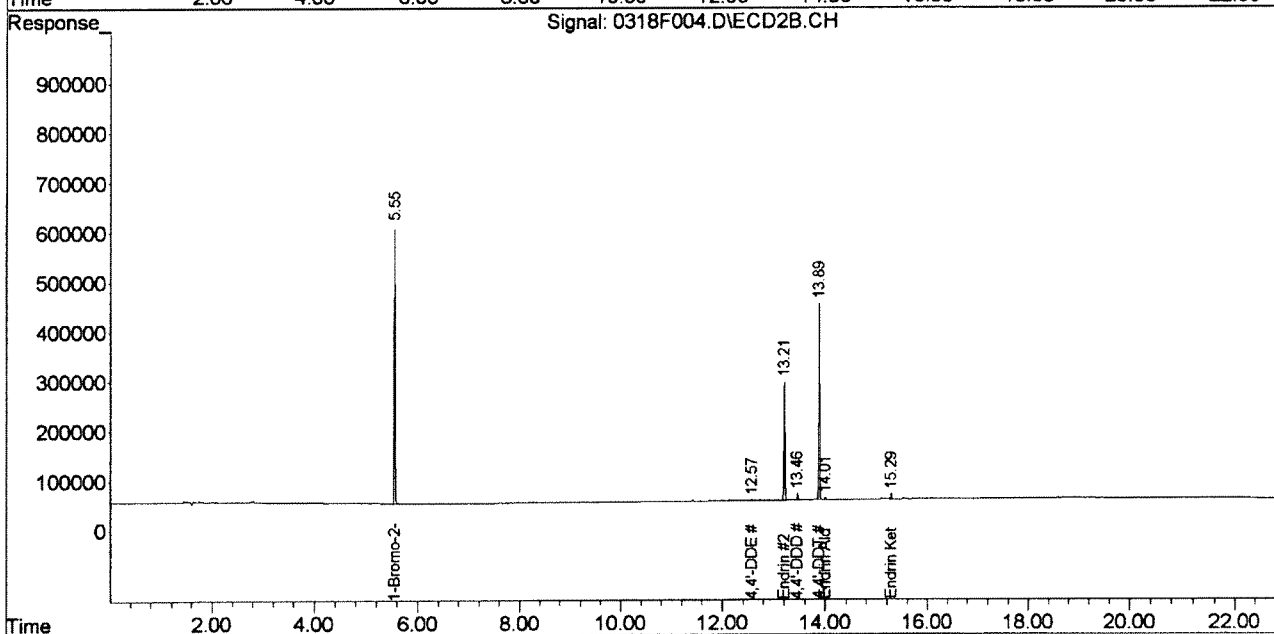
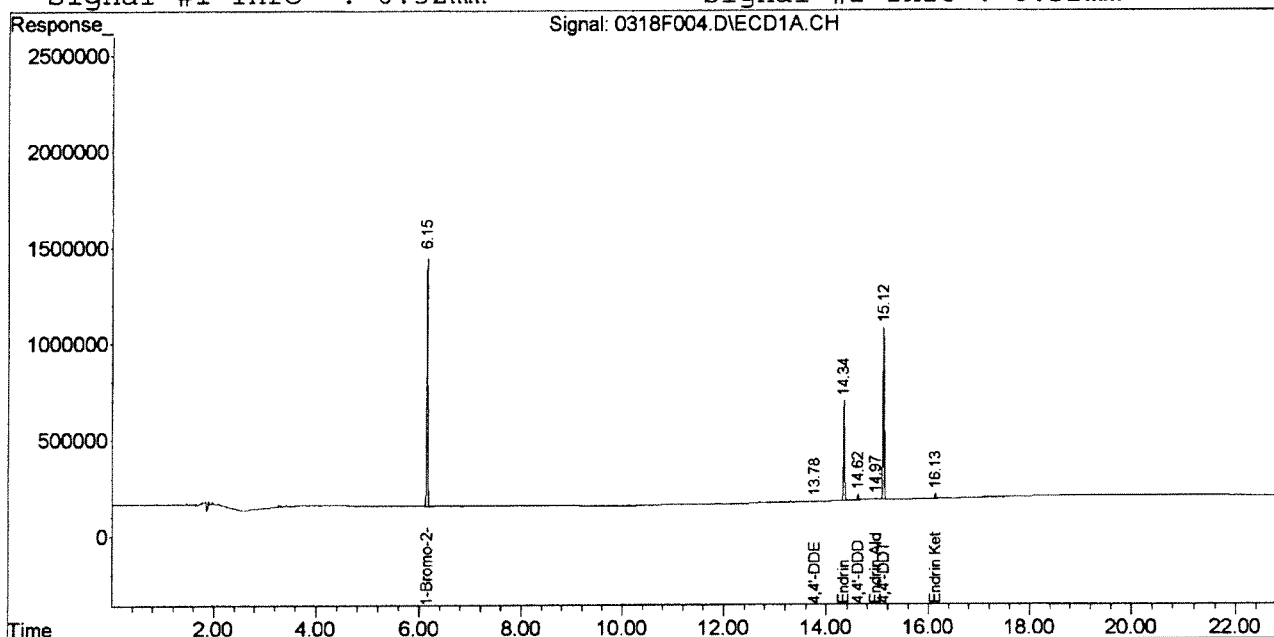
Target Compounds							
16)	4,4'-DDE	13.78	12.57	5978	2005	0.264	0.203
17)	Endrin	14.34	13.21	860382	359678	46.675	46.474
19)	4,4'-DDD	14.62	13.46	55049	19679	3.037	2.593
20)	Endrin Aldehyde	14.97	14.01	17491	7350	1.316	1.210
22)	4,4'-DDT	15.12	13.89	1489919	589900	99.335	88.777
23)	Endrin Ketone	16.13	15.29	44872	18535	2.180	2.022

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F004.D\ECD1A.CH Vial: 1
 Signal #2 : J:\GC23\DATA\031814C\0318F004.D\ECD2B.CH
 Acq On : 18 Mar 2014 11:44 pm Operator: SMURRAY
 Sample : PEM @50-100PPB GCPS7-48D Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 10:47 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 18:14:57 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F003.D\ECD1A.CH Vial: 6
 Signal #2 : J:\GC23\DATA\031814C\0318F003.D\ECD2B.CH
 Acq On : 18 Mar 2014 11:15 pm Operator: SMURRAY
 Sample : IB Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:55:19 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:49:39 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.15	5.55	1781978	685710	100.000	100.000
29) 1-Bromo-2-nitrob	6.15	5.55	1781978	685710	100.000	100.000
36) 1-Bromo-2-nitrob	6.15	5.55	1781978	685710	100.000	100.000

System Monitoring Compounds

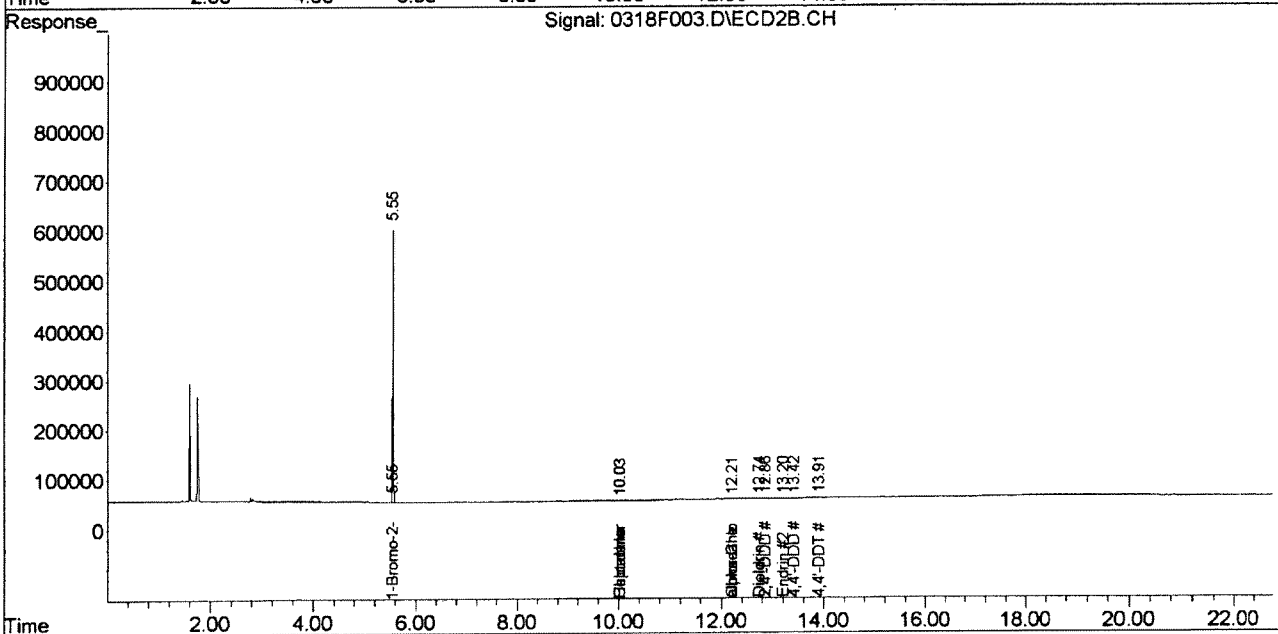
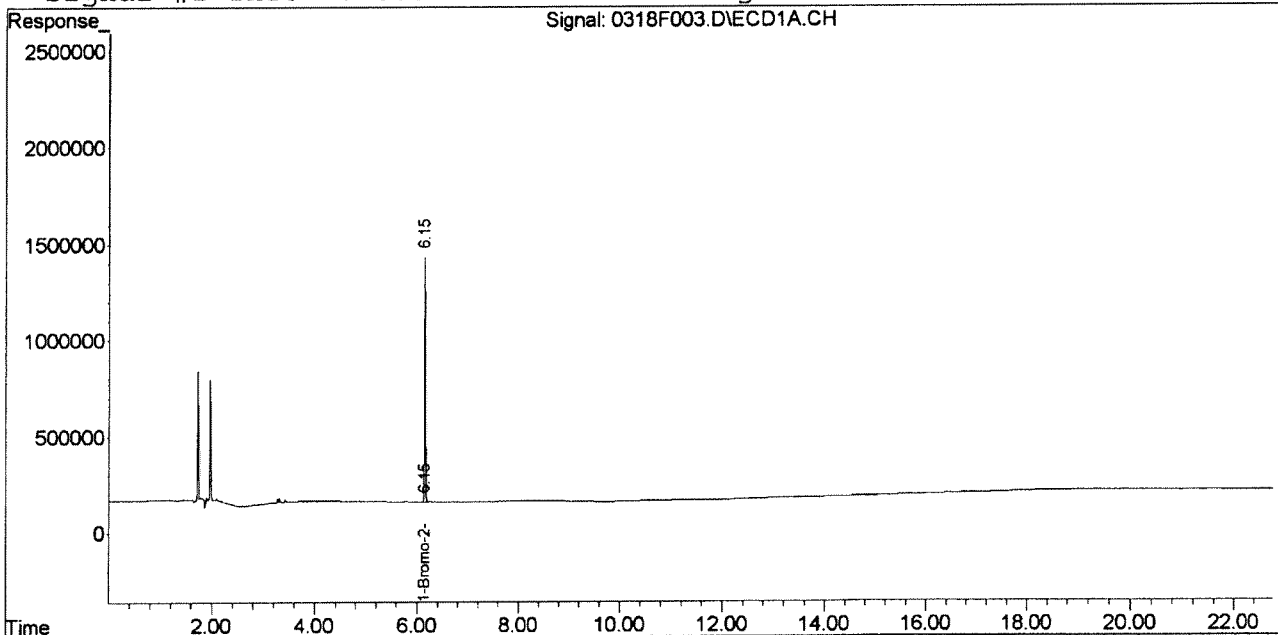
Target Compounds						
8)	Heptachlor	0.00	10.03	0	891	N.D. 0.095 #
14)	alpha-Chlordane	0.00	12.21	0	1129	N.D. 0.120 #
15)	Dieldrin	0.00	12.74	0	1376	N.D. 0.146 #
17)	Endrin	0.00	13.20	0	734	N.D. 0.091 #
19)	4,4'-DDD	0.00	13.42f	0	931	N.D. 0.128 #
22)	4,4'-DDT	0.00	13.91	0	2046	N.D. d 0.296
26)	2,4'-DDD	0.00	12.86	0	1350	N.D. 0.244 #
38)	Chlordane {2}	0.00	10.03	0	891	N.D. 3.823 #
41)	Chlordane {5}	0.00	12.21f	0	1129	N.D. 6.303 #
42)	Chlordane {6}	0.00	12.21	0	1129	N.D. 2.579 #

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F003.D\ECD1A.CH Vial: 6
Signal #2 : J:\GC23\DATA\031814C\0318F003.D\ECD2B.CH
Acq On : 18 Mar 2014 11:15 pm Operator: SMURRAY
Sample : IB Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:55 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:49:39 2014
Response via : Multiple Level Calibration
DataAcq Meth : PEST1UL.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F002.D\ECD1A.CH Vial: 70
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F002.D\ECD2B.CH
 Acq On : 17 Mar 2014 2:06 pm Operator: SMURRAY
 Sample : PEM @ 50-100ppb GCPS7-48D Inst : GC23
 Misc : SEMIVOA GC\W0617642\2-PEM.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 15:18:19 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 15:15:15 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	5.91	5.38	1752939	635073	100.000	100.000

System Monitoring Compounds

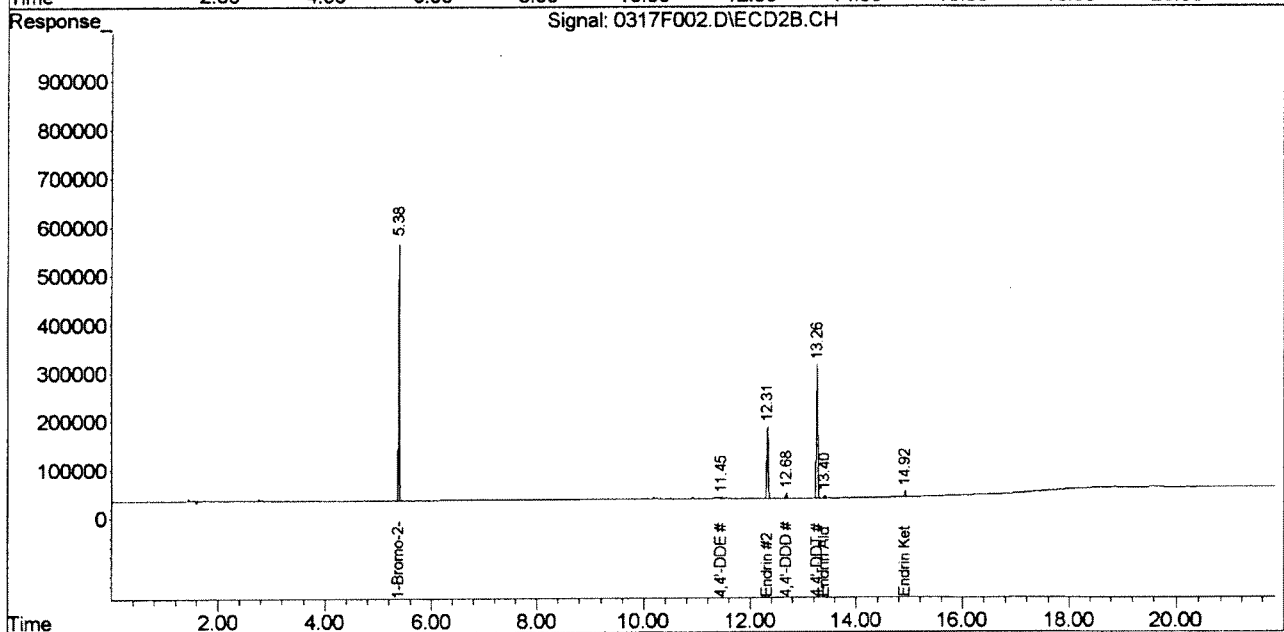
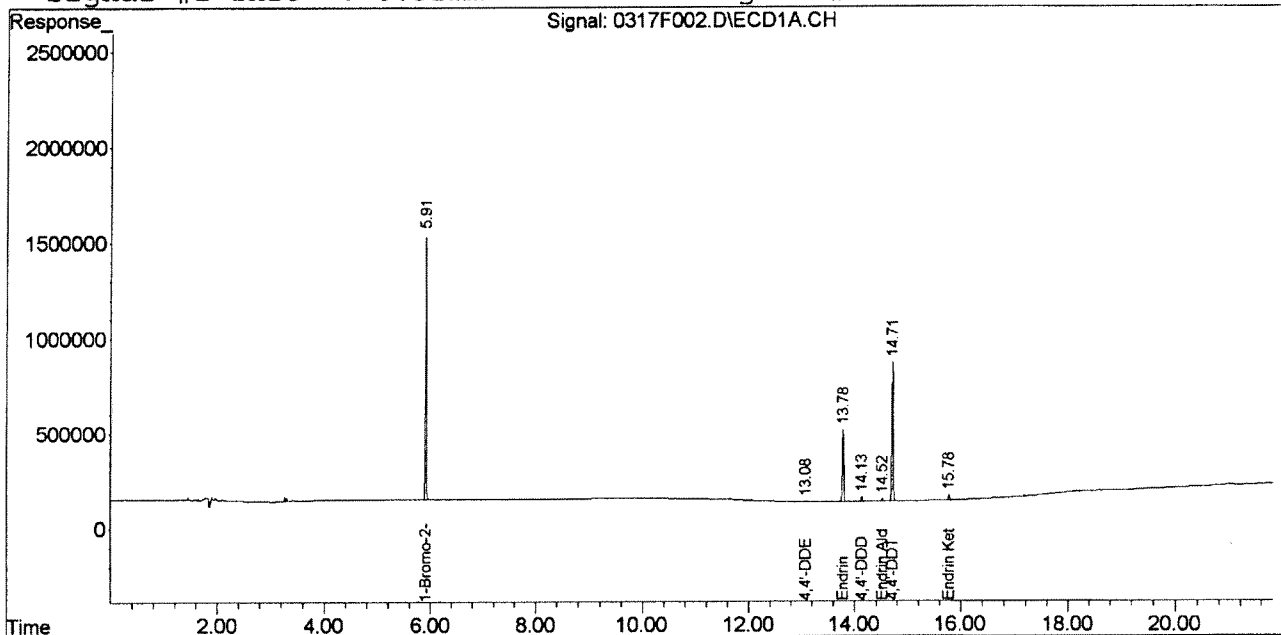
Target Compounds							
16)	4,4'-DDE	13.08	11.45	7373	4242	0.372	0.495 #
17)	Endrin	13.78	12.31	762378	303305	43.467	43.864
19)	4,4'-DDD	14.13	12.68	50855	21170	3.103	3.107
20)	Endrin Aldehyde	14.52	13.40	29813	12546	2.031	2.085
22)	4,4'-DDT	14.71	13.26	1346104	509873	76.231	74.558
23)	Endrin Ketone	15.78	14.92	52164	23310	2.295	2.604

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F002.D\ECD1A.CH Vial: 70
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F002.D\ECD2B.CH
 Acq On : 17 Mar 2014 2:06 pm Operator: SMURRAY
 Sample : PEM @ 50-100ppb GCPS7-48D Inst : GC23
 Misc : SEMIOVA GC\W0617642\2-PEM.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 15:19 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 15:15:15 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F001.D\ECD1A.CH Vial: 69
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F001.D\ECD2B.CH
 Acq On : 17 Mar 2014 1:38 pm Operator: SMURRAY
 Sample : IB Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 15:20:25 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 15:15:15 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

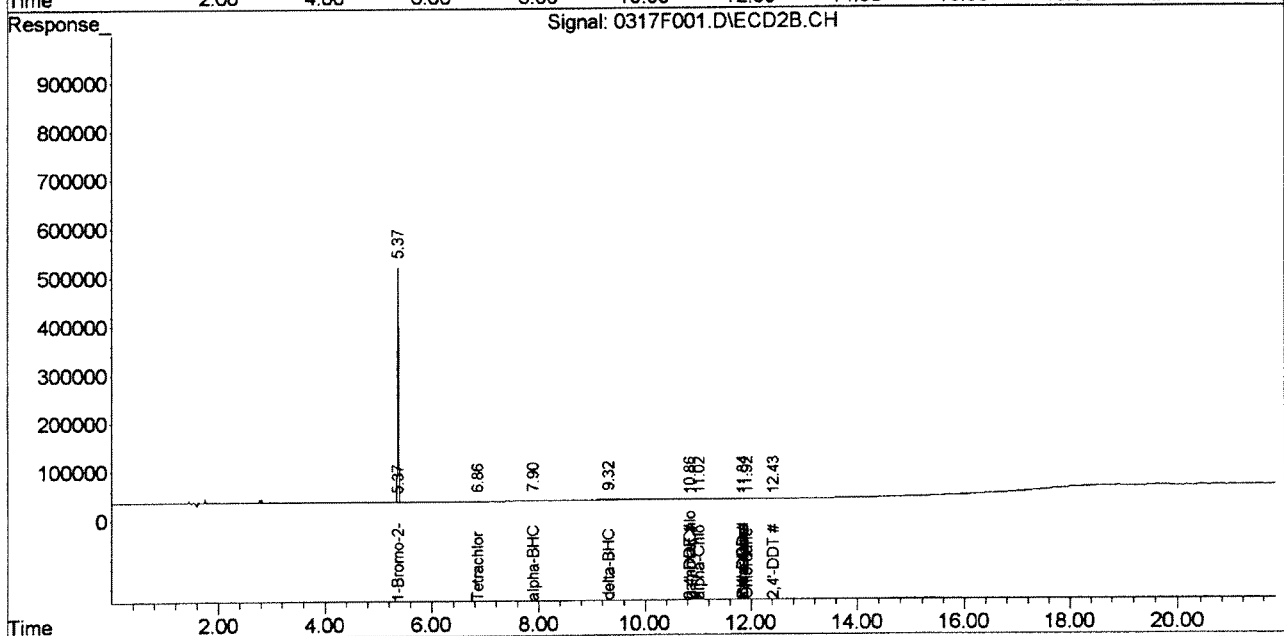
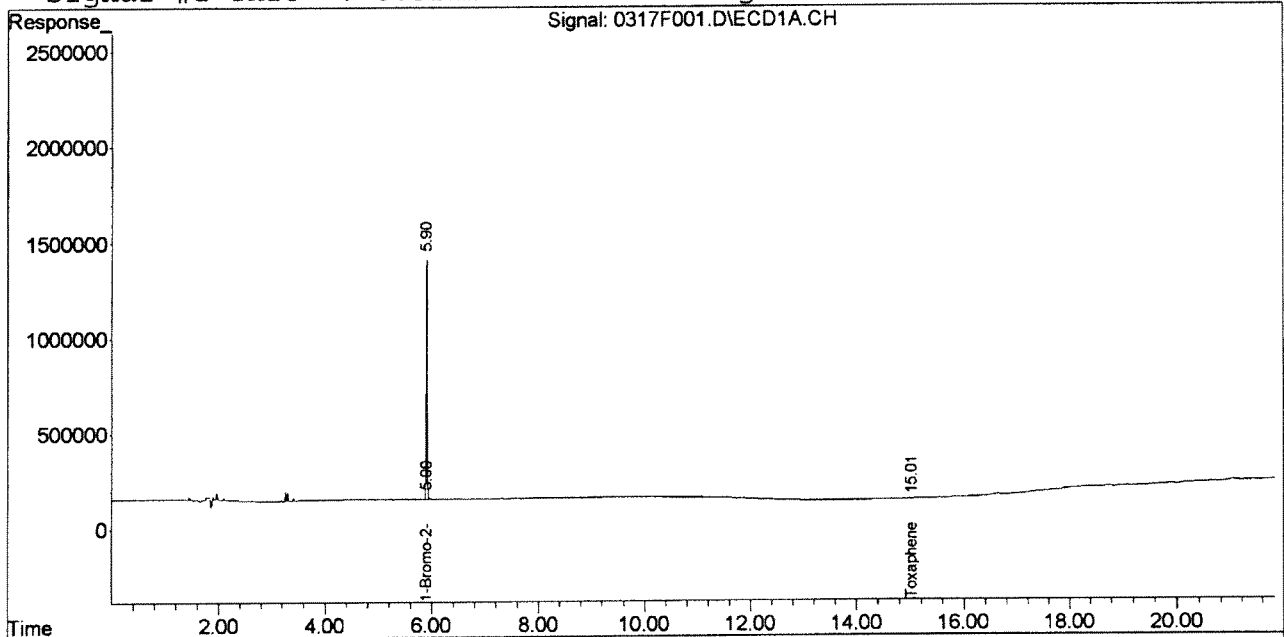
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	5.90	5.37	1585881	571355	100.000	100.000
29) 1-Bromo-2-nitrob	5.90f	5.37f	1585881	571355	100.000	100.000
36) 1-Bromo-2-nitrob	5.90f	5.37f	1585881	571355	100.000	100.000
43) 1-Bromo-2-nitrob	5.90f	5.37f	1585881	571355	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	0.00	6.86f	0	795	N.D.	0.117 #
Target Compounds						
3) alpha-BHC	0.00	7.90	0	738	N.D. d	0.082
7) delta-BHC	0.00	9.32	0	1452	N.D.	0.172 #
12) gamma-Chlordane	0.00	10.86	0	1074	N.D.	0.135 #
14) alpha-Chlordane	0.00	11.02	0	772	N.D.	0.099 #
25) 2,4'-DDE	0.00	10.86	0	1074	N.D. d	0.208
26) 2,4'-DDD	0.00	11.84	0	856	N.D.	0.189 #
27) 2,4'-DDT	0.00	12.43	0	1007	N.D. d	0.193
34) Toxaphene {5}	15.01	0.00	3064	0	13.056	N.D. #
39) Chlordane {3}	0.00	11.84f	0	856	N.D. d	0.946
40) Chlordane {4}	0.00	11.84	0	856	N.D.	1.580 #
41) Chlordane {5}	0.00	11.92	0	2137	N.D.	7.077 #
47) trans-Nonachlor	0.00	11.84	0	856	N.D.	0.111 #

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F001.D\ECD1A.CH Vial: 69
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F001.D\ECD2B.CH
 Acq On : 17 Mar 2014 1:38 pm Operator: SMURRAY
 Sample : IB Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:59 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 15:15:15 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
 Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
 Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
 Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:20:43 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 18:14:57 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.15	5.55	1766290	683630	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.93	7.36	62278	21880	2.200	2.365
28) s Decachlorobiphen	18.65	17.17	52164	18794	2.352m	2.439
Target Compounds						
3) alpha-BHC	9.78	8.60	64542	23636	2.366	2.178
4) Hexachlorobenzen	9.94	8.38	76627	26476	2.150	2.488
5) beta-BHC	11.05	9.88	32617	12730	0.811	2.592 #
6) gamma-BHC (Linda	10.45	9.35	60956	23061	2.447m	2.326
7) delta-BHC	11.55	10.41	57491	21723	2.390m	2.283
8) Heptachlor	11.65	10.04	59697	22914	2.618	2.582
9) Aldrin	12.18	10.63	59977	23521	2.449	2.256
10) Isodrin	12.71	11.43	52927	20822	2.586m	2.448
11) Heptachlor Epoxi	12.91	11.70	58619	22137	2.673	2.443
12) gamma-Chlordane	13.43	12.07	58929	23895	2.589m	2.331
13) Endosulfan I	13.56	12.28	52845	20003	2.612	2.367
14) alpha-Chlordane	13.51	12.22	58206	23555	2.581	2.463m
15) Dieldrin	13.98	12.73	52729	22928	2.478	2.520
16) 4,4'-DDE	13.78	12.58	53084	20735	2.413	2.148m
17) Endrin	14.35	13.21	46120	19167	2.577	2.536
18) Endosulfan II	14.79	13.65	48875	18852	2.777m	2.431
19) 4,4'-DDD	14.62	13.47	44838	16689	2.547	2.251
20) Endrin Aldehyde	14.98	14.01	35074	14880	2.719m	2.508m
21) Endosulfan Sulfa	15.45	14.34	46815	17192	2.858m	2.405m
22) 4,4'-DDT	15.12	13.89	35850	16782	2.461	2.586
23) Endrin Ketone	16.14	15.29	53096	22036	2.656	2.461
24) Methoxychlor	15.88	15.00	19666	8817	2.780	2.680
25) 2,4'-DDE	13.19	12.10	34040	14372	2.501	2.715m
26) 2,4'-DDD	13.93	12.88	32633	13678	2.677	2.637
27) 2,4'-DDT	14.43	13.31	32228	14073	2.632	2.519

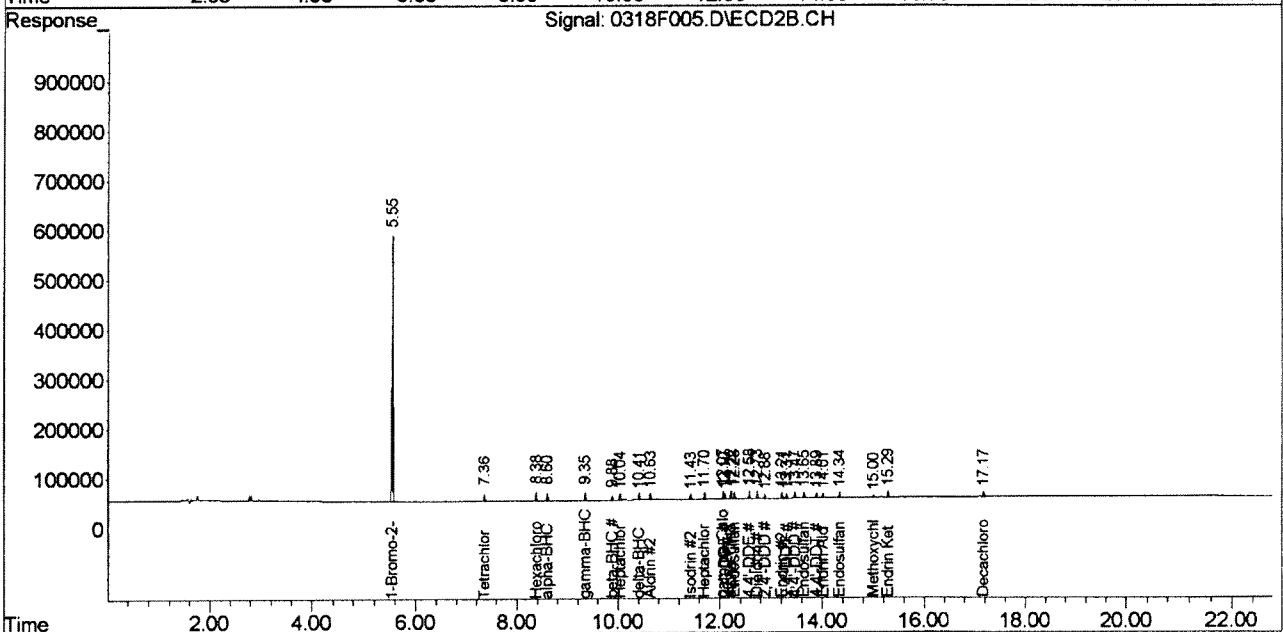
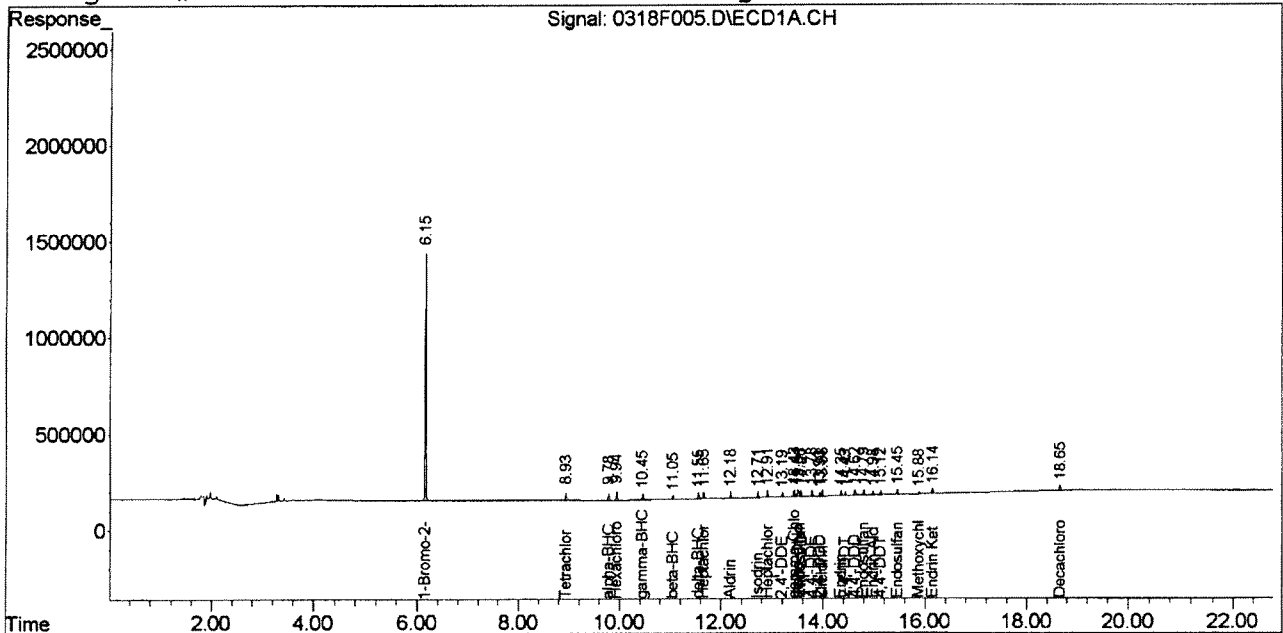
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
 0318F005.D GC23-031714-8081.M Wed Mar 19 12:44:01 2014 Page 1

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
 Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
 Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
 Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:23 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 18:14:57 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

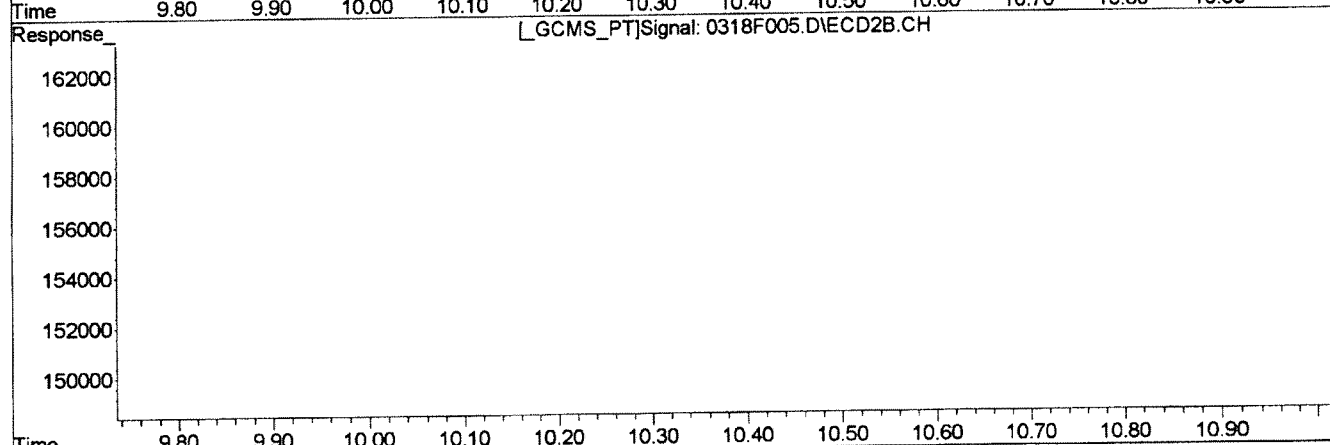
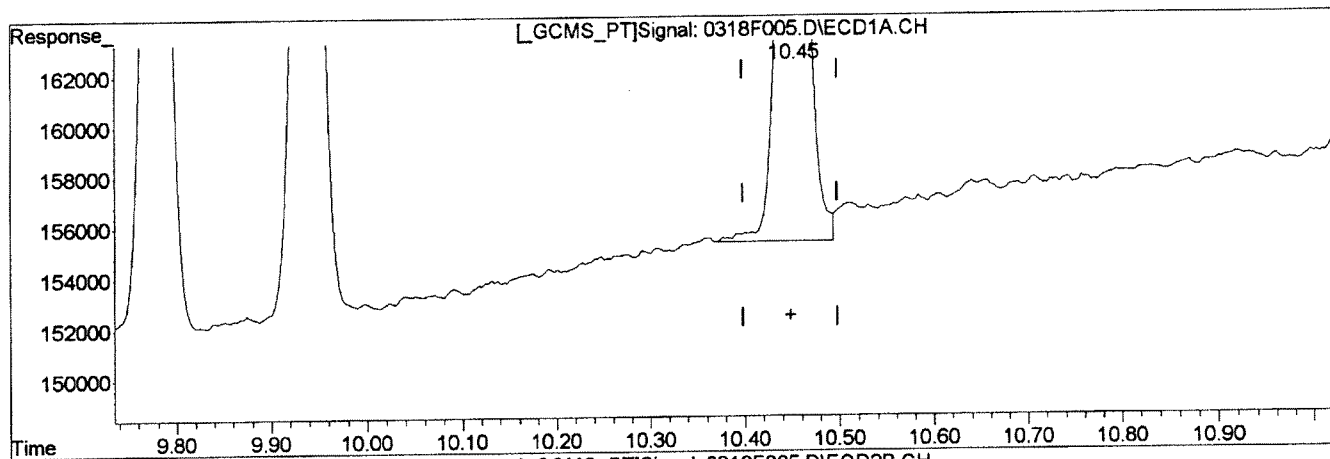
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
 Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
 Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
 Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 18:14:57 2014
 Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH		Manual Integration:
(6) gamma-BHC (Lindane)		Before
10.45min 2.574ug/L		
response 64128		03/19/14
(6) gamma-BHC (Lindane) #2		
9.35min 2.326ug/L		
response 23061		

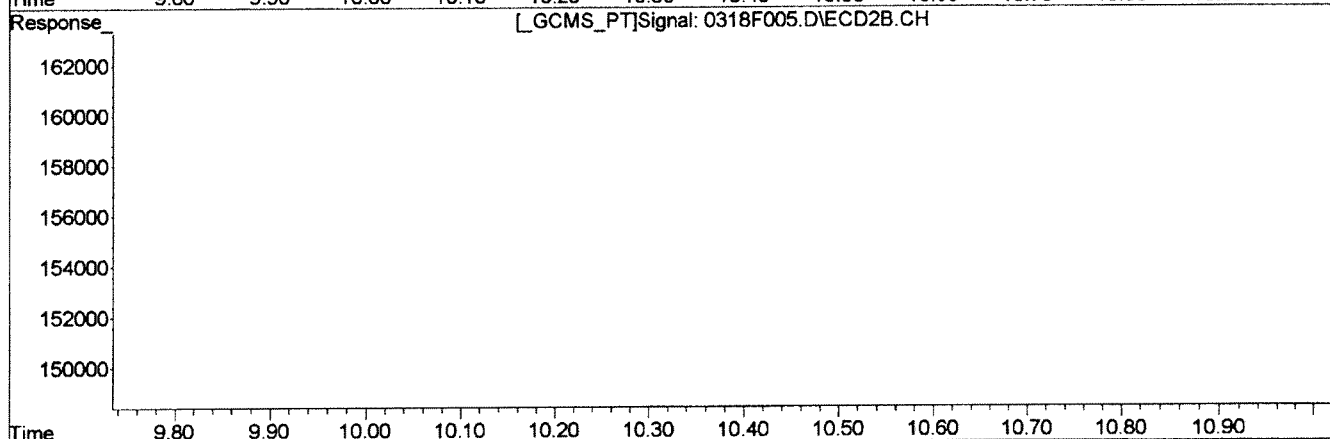
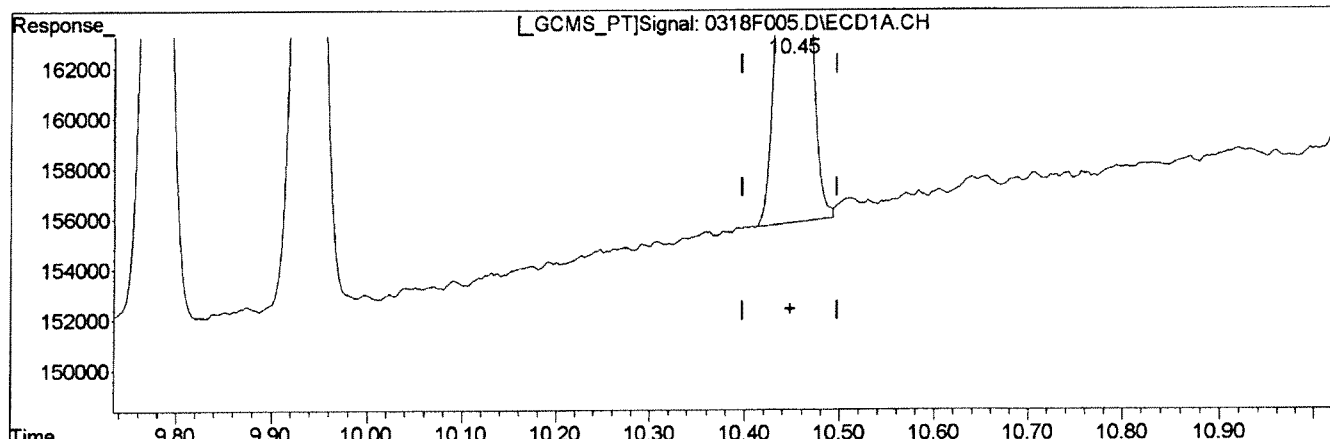
(+) = Expected Retention Time
 0318F005.D GC23-031714-8081.M

Wed Mar 19 12:21:21 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

(6) gamma-BHC (Lindane)	Manual Integration:
10.45min 2.447ug/L m	After
response 60956	Baseline/Shoulder
	03/19/14
(6) gamma-BHC (Lindane) #2	
9.35min 2.326ug/L	
response 23061	

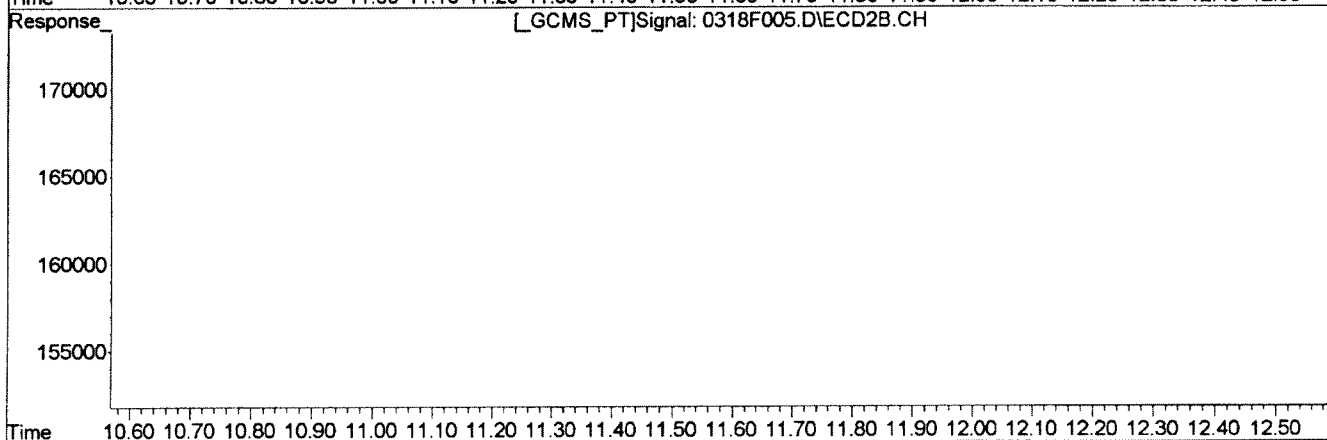
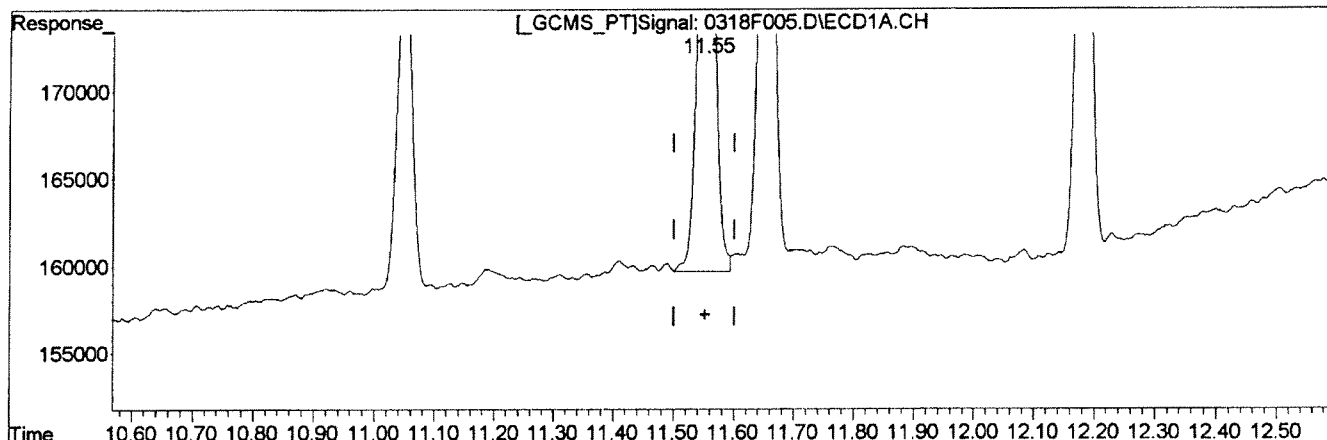
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:21:25 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Integration Status	Date
(7) delta-BHC			Manual Integration:	
11.55min	2.506ug/L	60267	Before	03/19/14
(7) delta-BHC #2				
10.41min	2.283ug/L	21723		

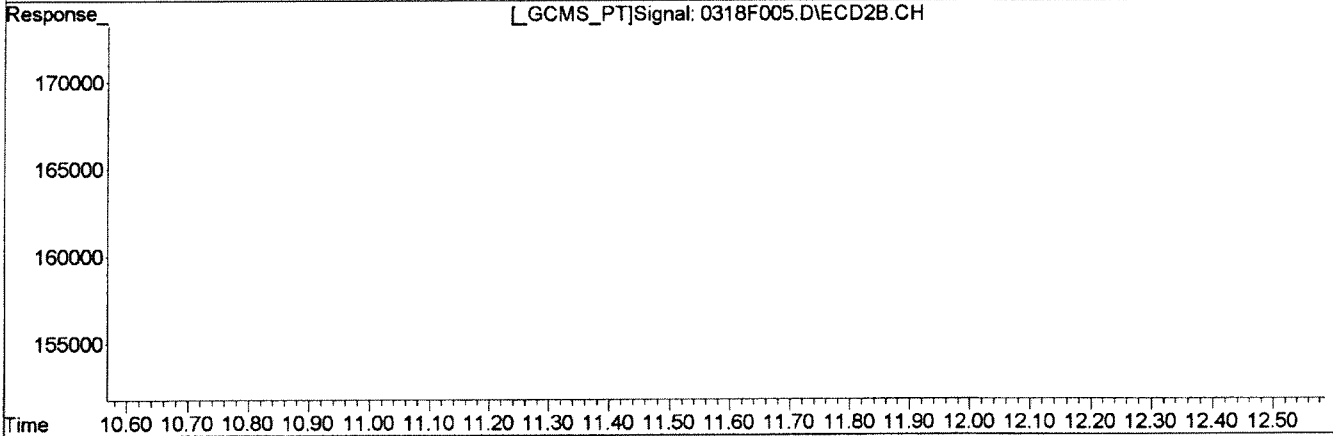
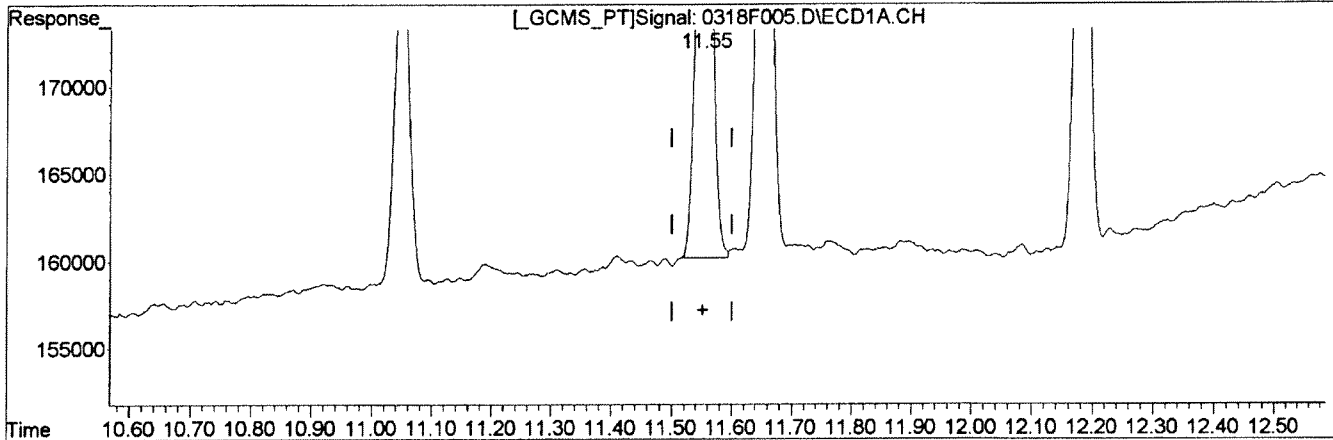
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:21:28 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

(7) delta-BHC	Manual Integration:
11.55min 2.390ug/L m	After
response 57491	Baseline/Shoulder
	03/19/14
(7) delta-BHC #2	
10.41min 2.283ug/L	
response 21723	

[Handwritten signature]

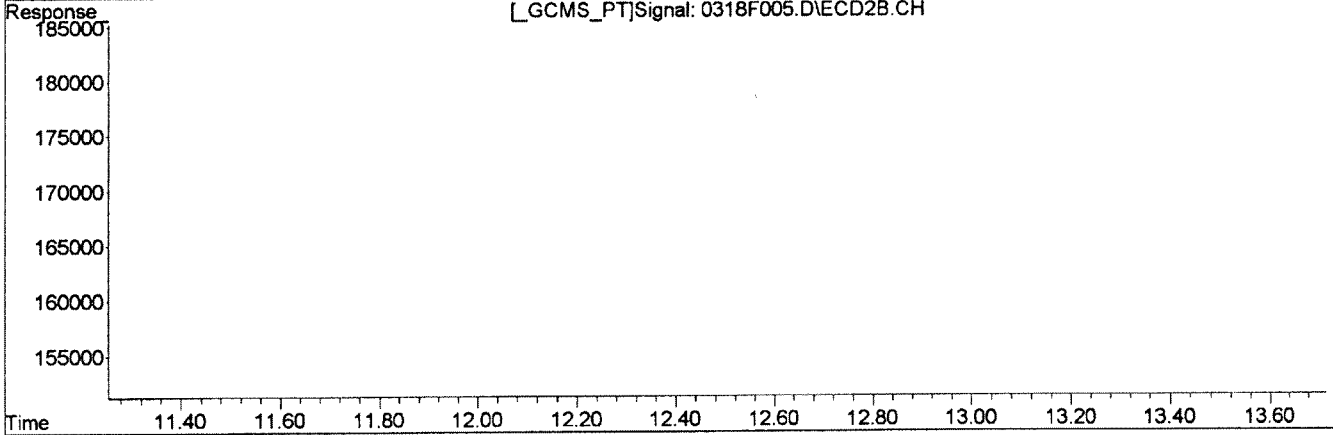
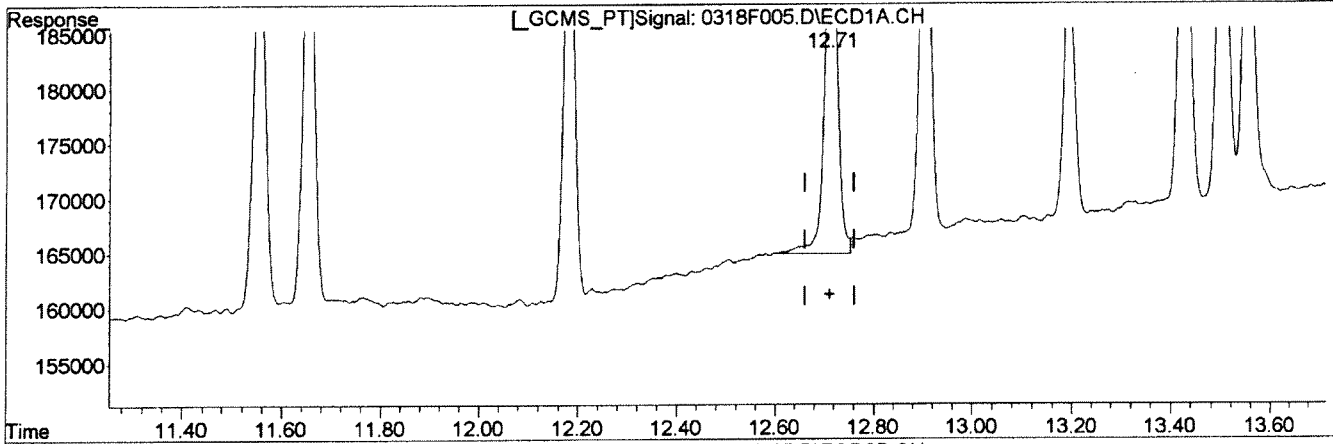
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:21:32 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

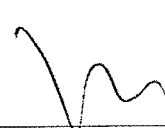

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(10) Isodrin		
12.71min	2.863ug/L	response 58599
(10) Isodrin #2		
11.43min	2.448ug/L	response 20822

Manual Integration:
Before
03/19/14



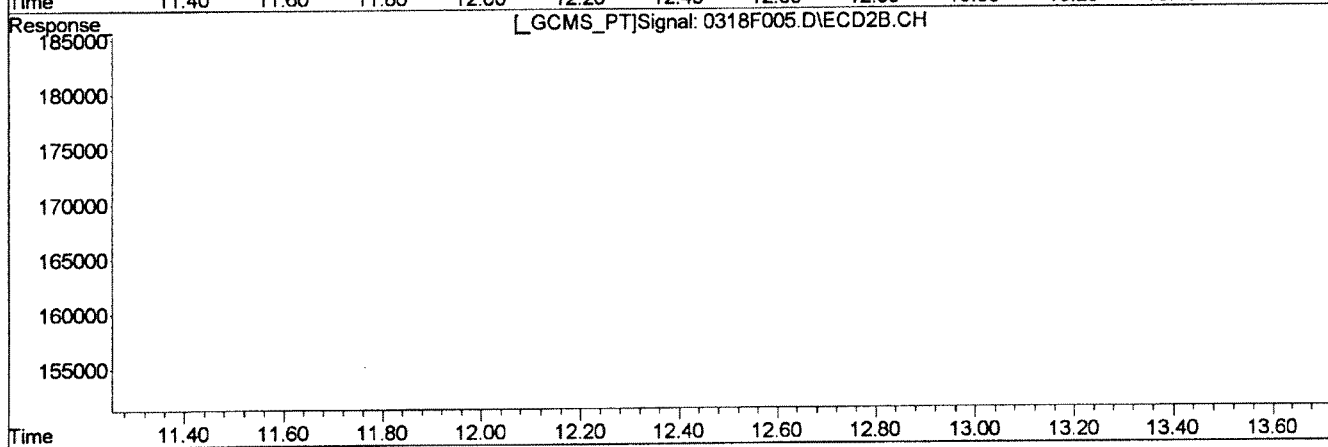
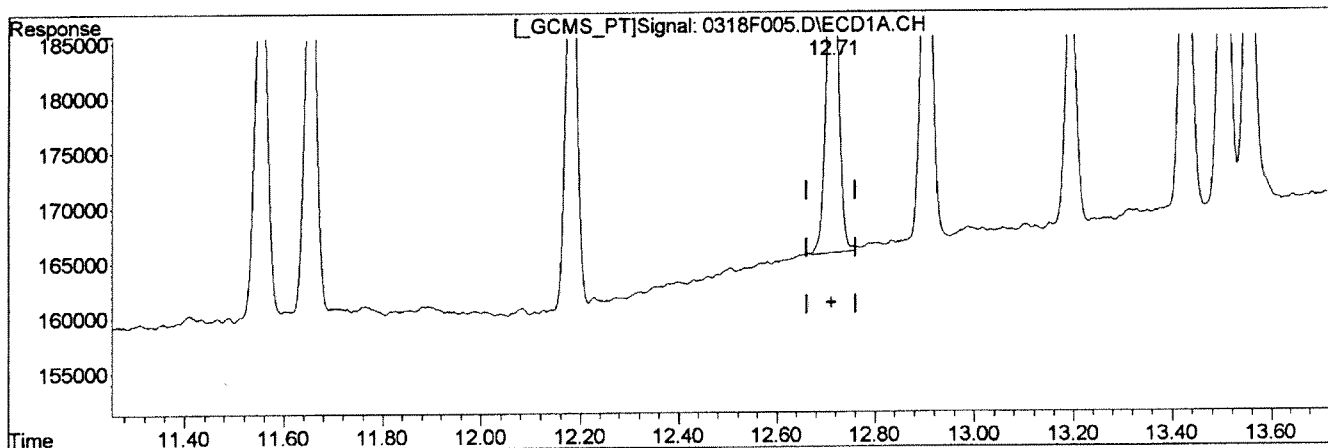
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:21:36 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Integration Status
12.71	2.586	52927	Manual Integration: After Baseline/Shoulder
11.43	2.448	20822	03/19/14

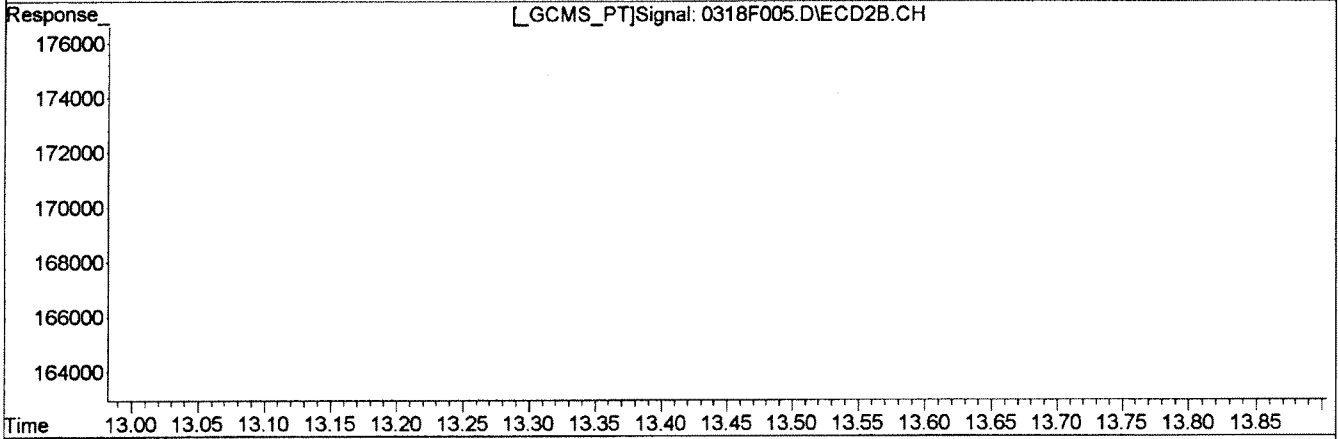
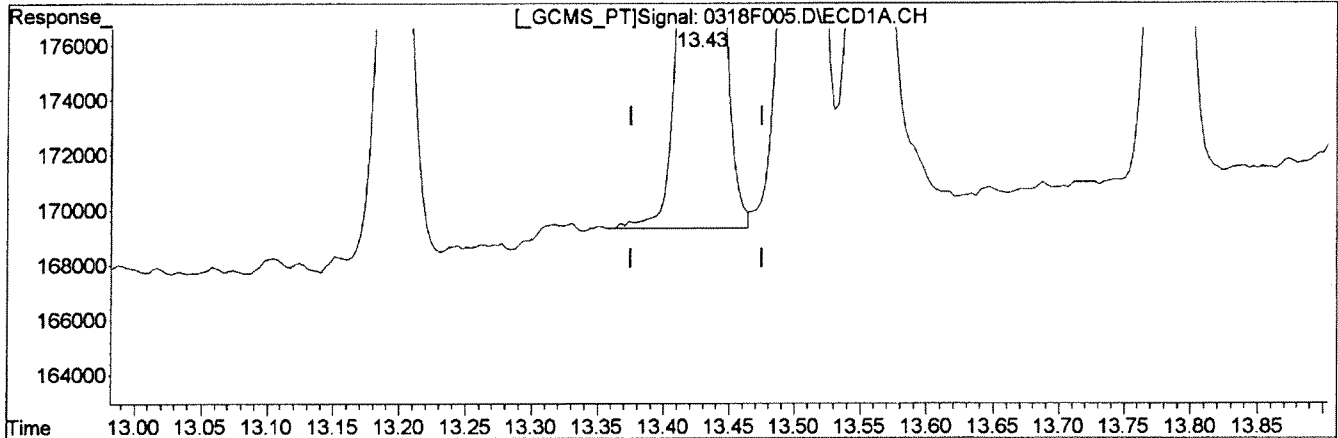
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:21:39 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

Retention Time	Concentration	Response	Integration Status	Date
(12) gamma-Chlordane	2.674ug/L	60849	Manual Integration: Before	03/19/14
(12) gamma-Chlordane #2	2.331ug/L	23895		

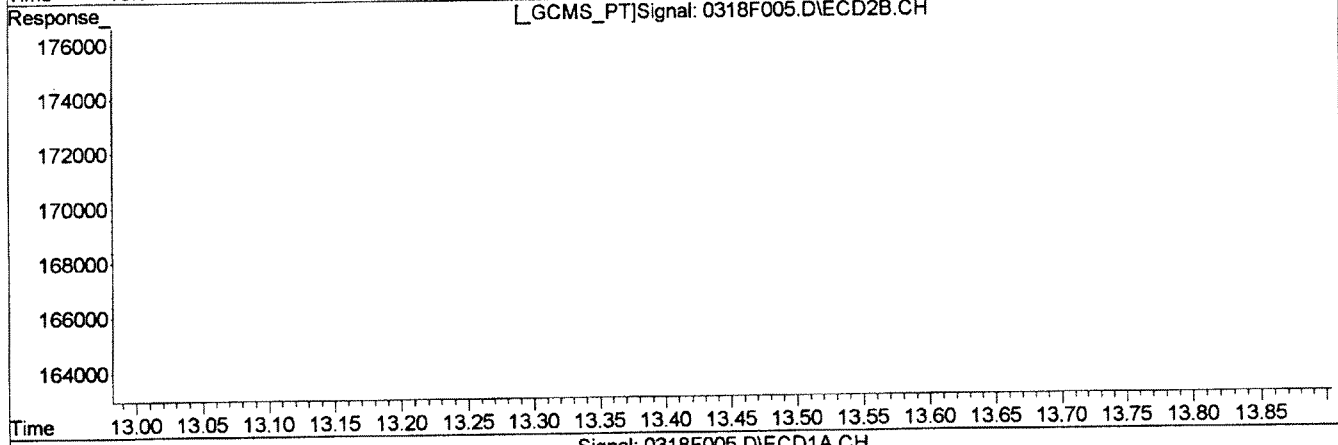
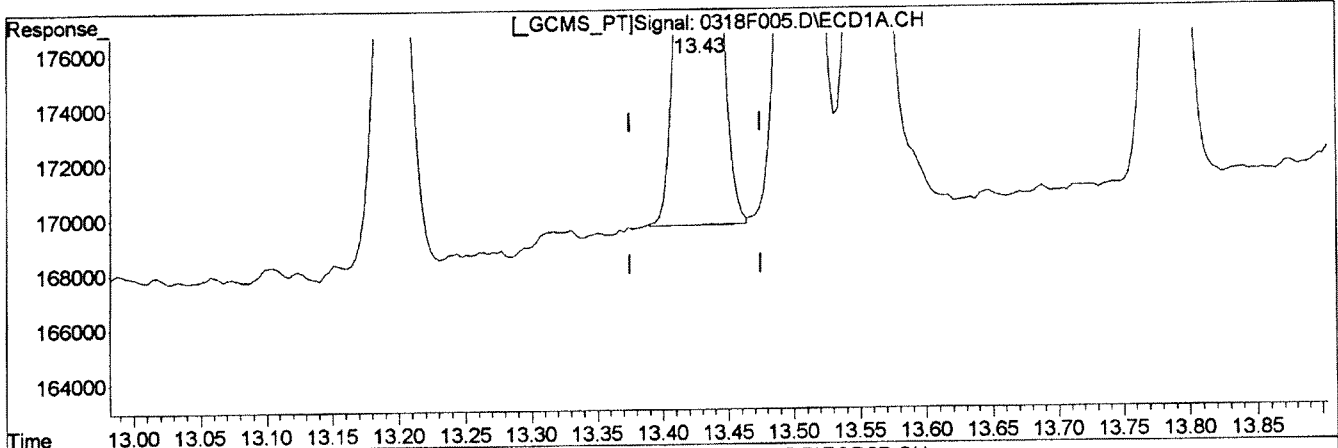
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:21:45 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

Retention Time	Concentration	Response	Integration Status
(12) gamma-Chlordane			Manual Integration:
13.43min	2.589ug/L m	58929	After
			Baseline/Shoulder
			03/19/14
(12) gamma-Chlordane #2			
12.07min	2.331ug/L	23895	

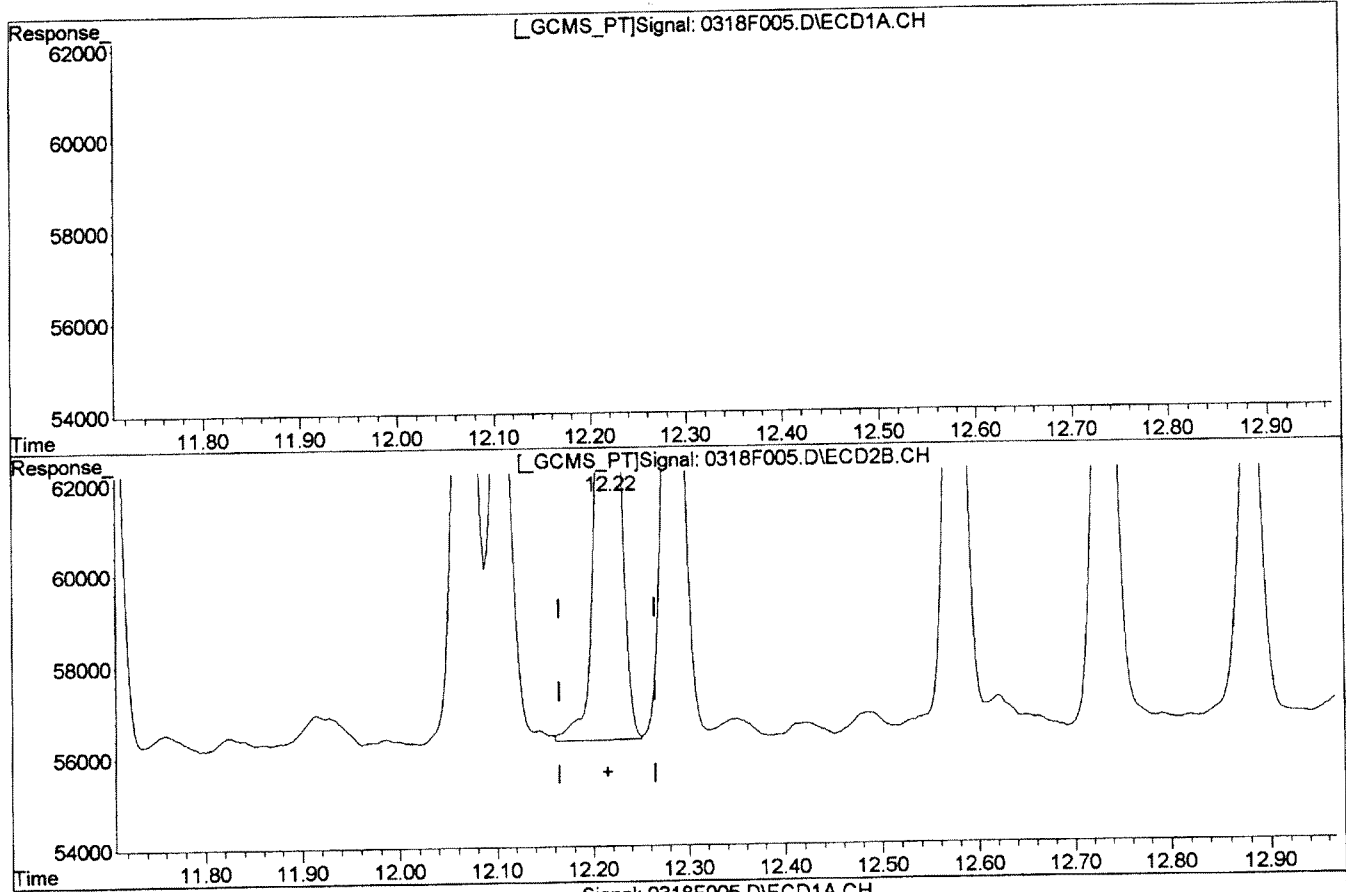
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:21:49 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Integration Status	Date
(14) alpha-Chlordane	2.581	58206	Manual Integration: Before	03/19/14
(14) alpha-Chlordane #2	2.524	24137		

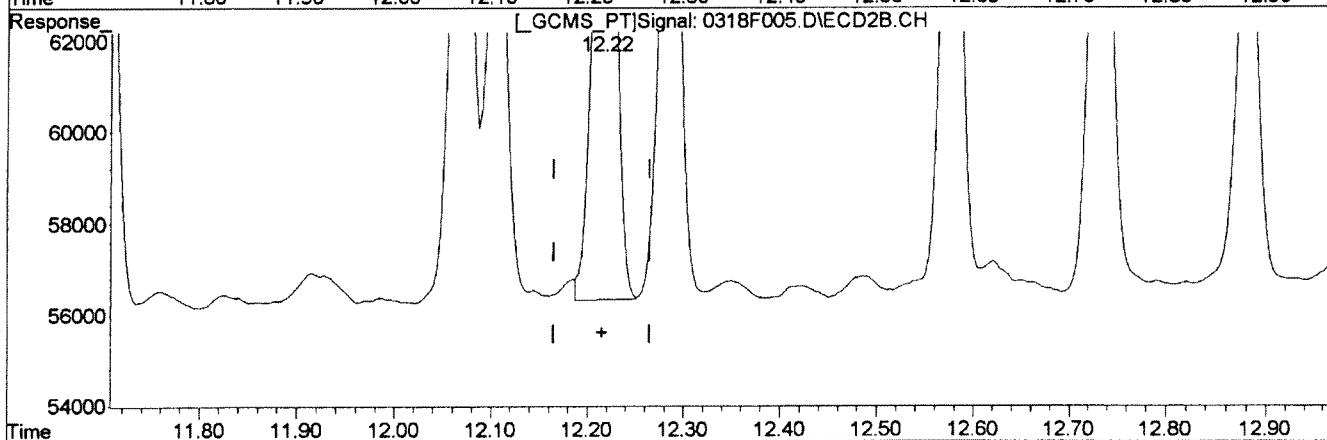
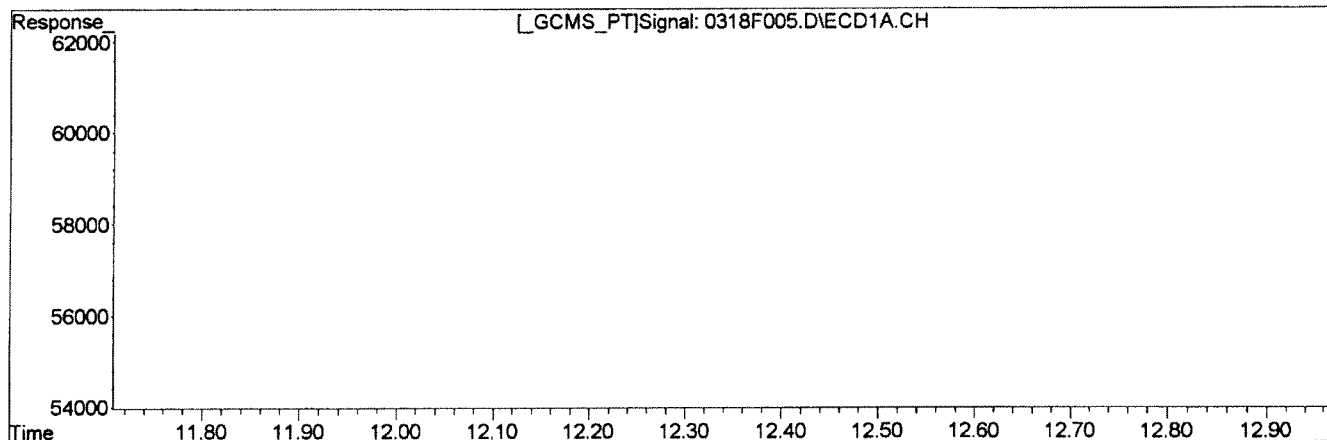
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:21:55 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES


Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
13.51	2.581	58206
12.22	2.463	23555

Manual Integration:
After
Baseline/Shoulder
03/19/14



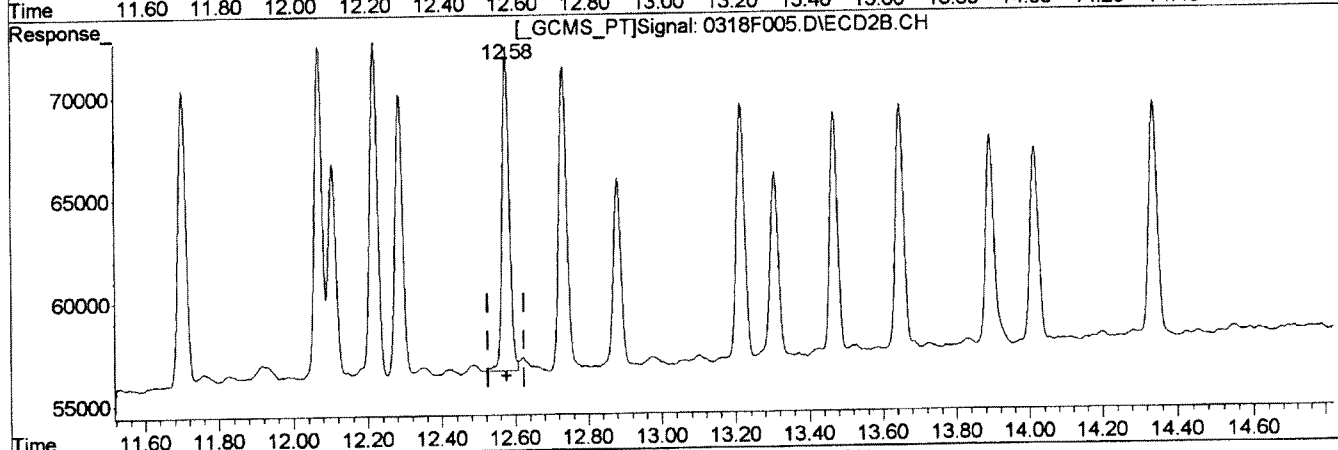
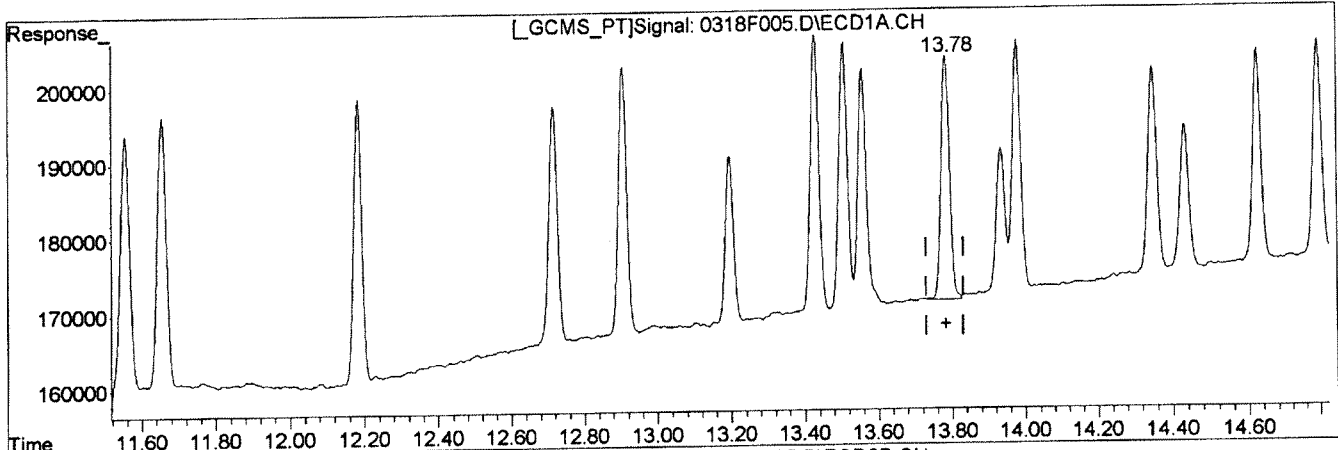
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:21:59 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Manual Integration
(16) 4,4'-DDE	2.413	53084	Before
(16) 4,4'-DDE #2	2.247	21692	03/19/14

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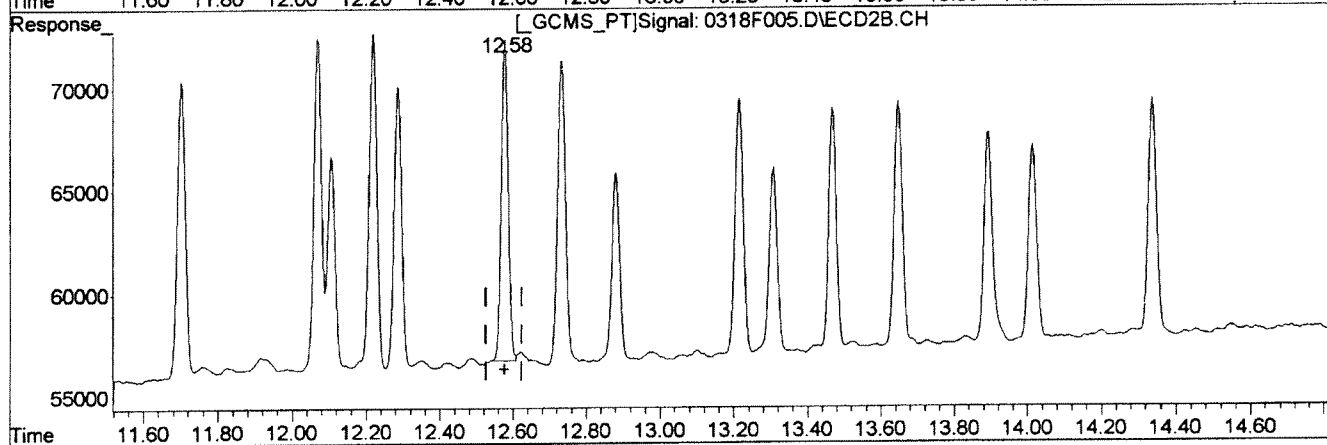
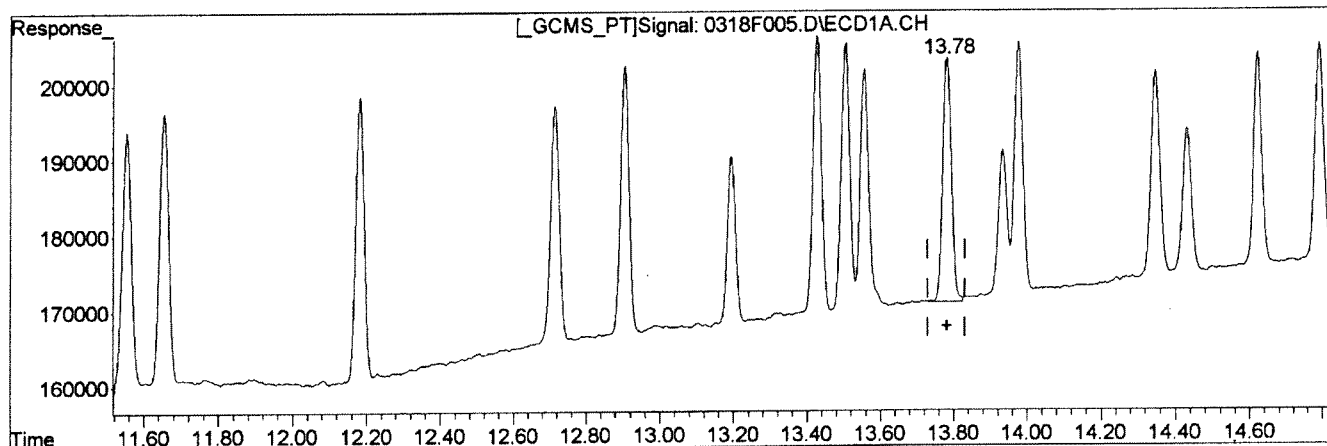
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:22:02 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

(16) 4,4'-DDE	Manual Integration:
13.78min 2.413ug/L	After
response 53084	Baseline/Shoulder
	03/19/14
(16) 4,4'-DDE #2	
12.58min 2.148ug/L m	
response 20735	

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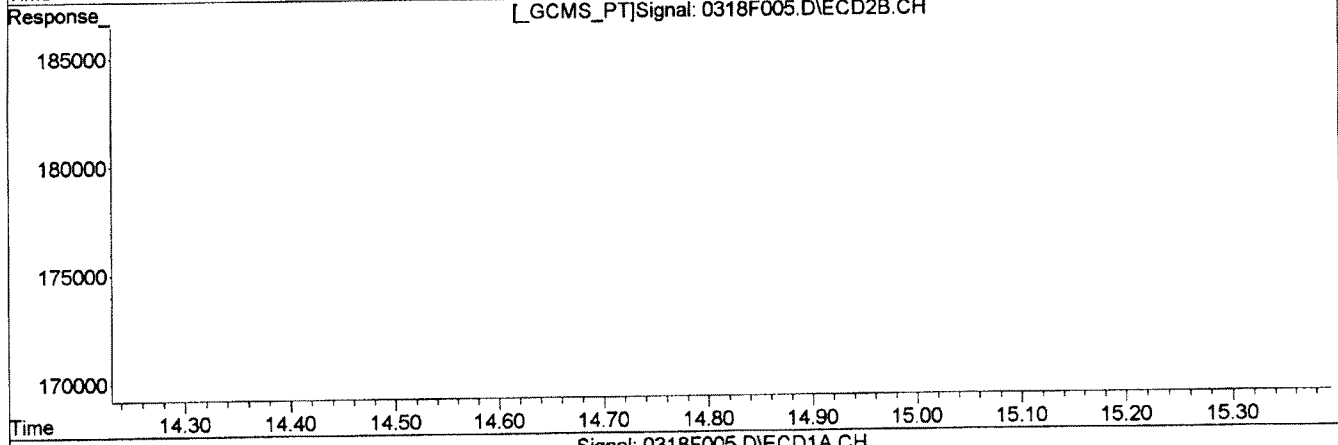
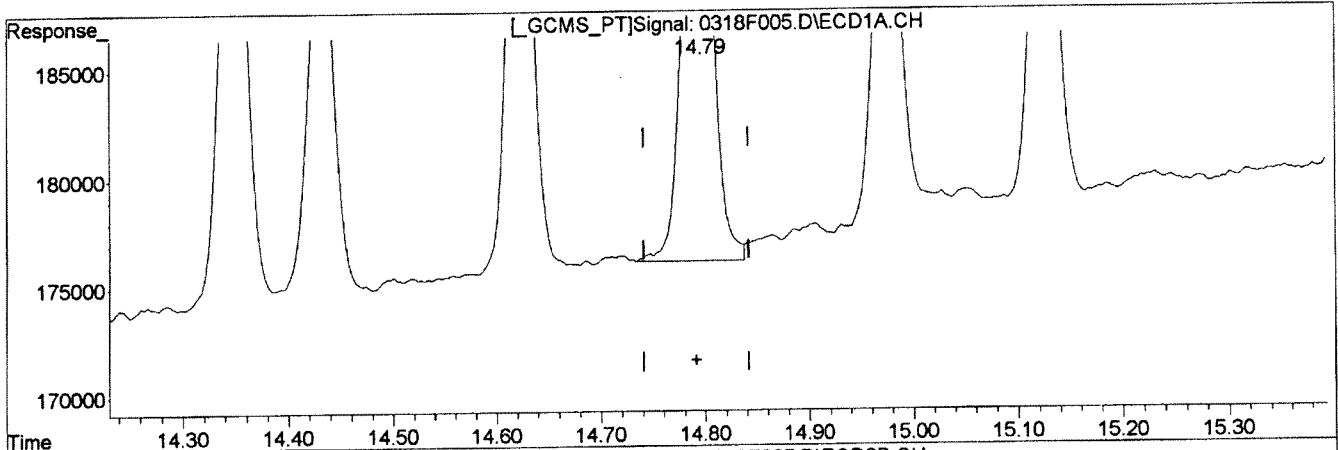
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:22:06 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Integration Status	Date
(18) Endosulfan II			Manual Integration: Before	
14.79min	2.887ug/L	50813		03/19/14
(18) Endosulfan II #2				
13.65min	2.431ug/L	18852		

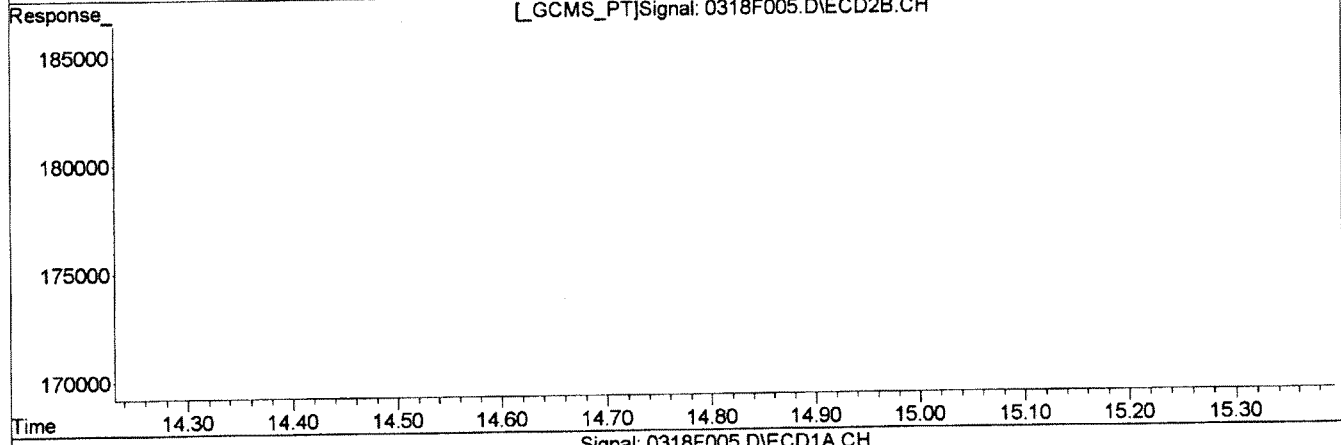
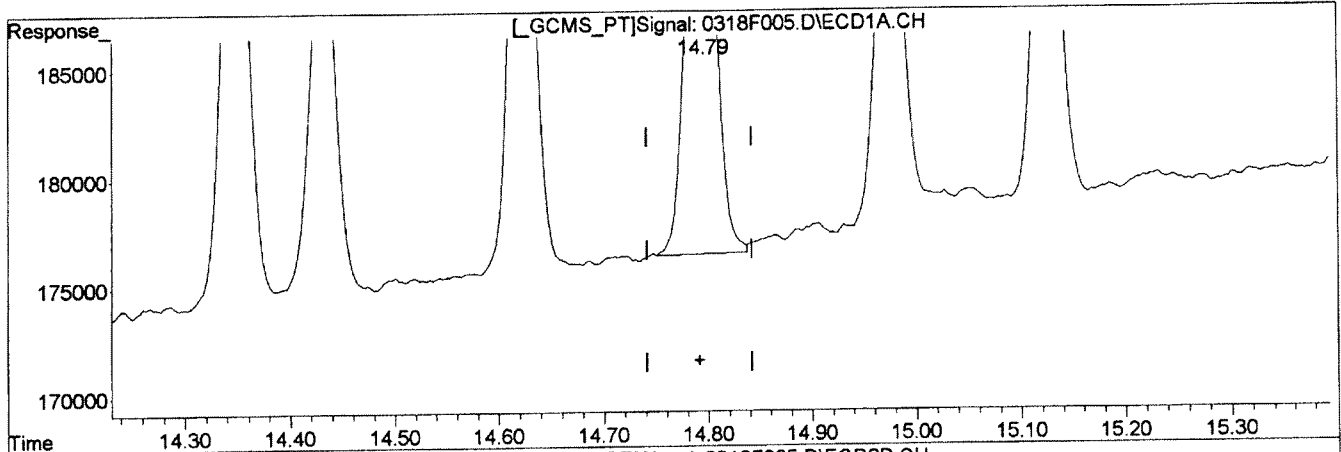
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:22:11 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

(18) Endosulfan II	Manual Integration:
14.79min 2.777ug/L m	After
response 48875	Baseline/Shoulder
	03/19/14
(18) Endosulfan II #2	
13.65min 2.431ug/L	
response 18852	

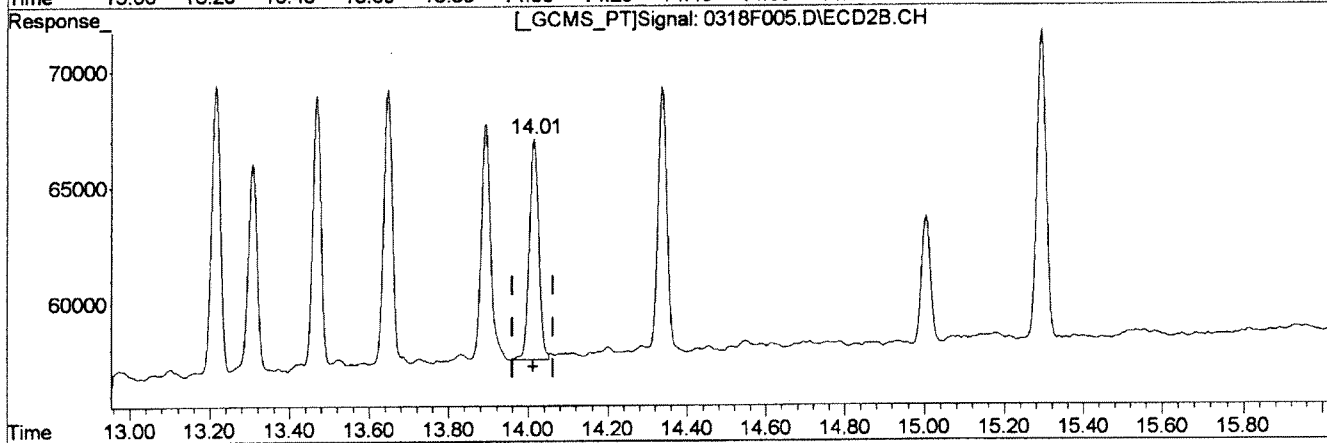
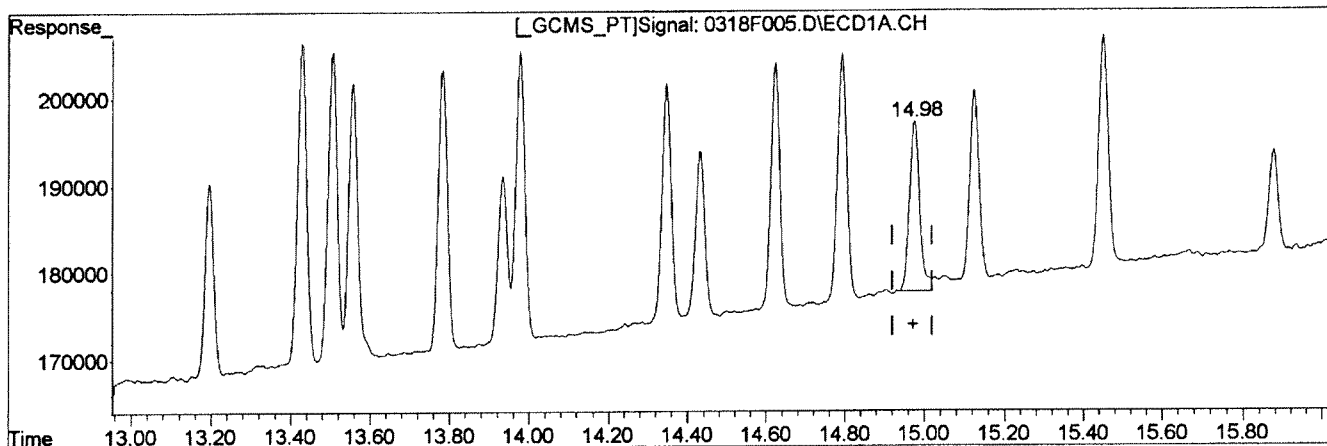
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:22:14 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
 Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
 Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
 Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 18:14:57 2014
 Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

(20) Endrin Aldehyde	Manual Integration:
14.98min 2.791ug/L	Before
response 36005	03/19/14
(20) Endrin Aldehyde #2	
14.01min 2.661ug/L	
response 15793	

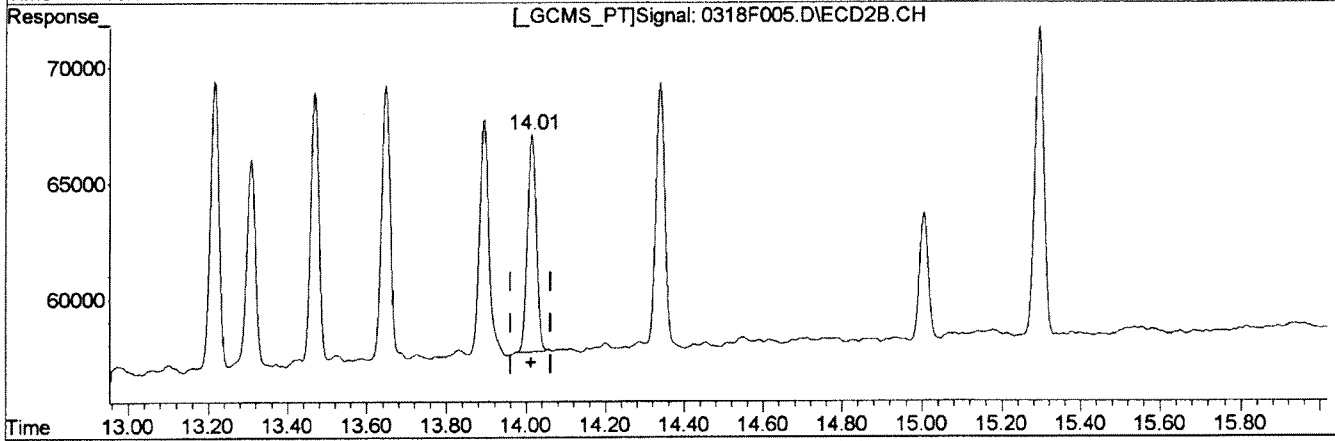
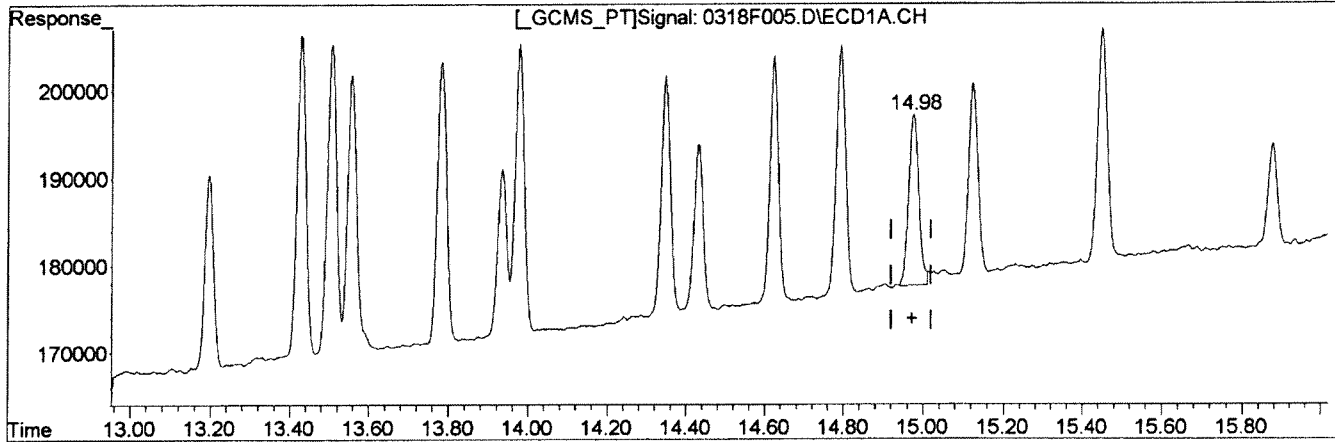
(+) = Expected Retention Time
 0318F005.D GC23-031714-8081.M

Wed Mar 19 12:22:19 2014

Quantitation Report (Qedit)

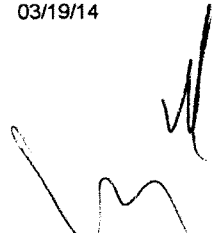
Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

(20) Endrin Aldehyde	Manual Integration:
14.98min 2.719ug/L m	After
response 35074	Baseline/Shoulder
	03/19/14
(20) Endrin Aldehyde #2	
14.01min 2.508ug/L m	
response 14880	



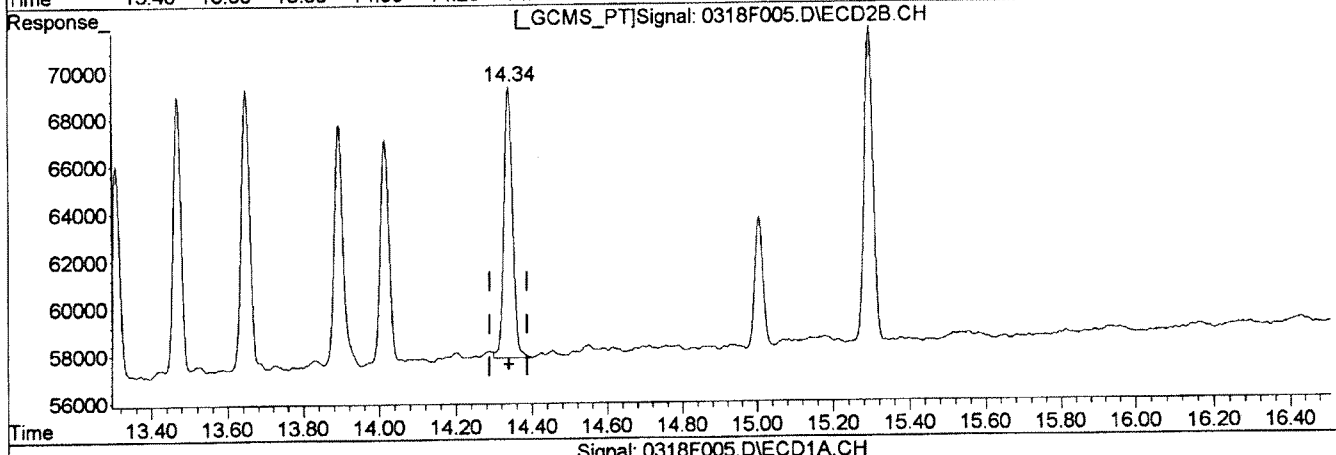
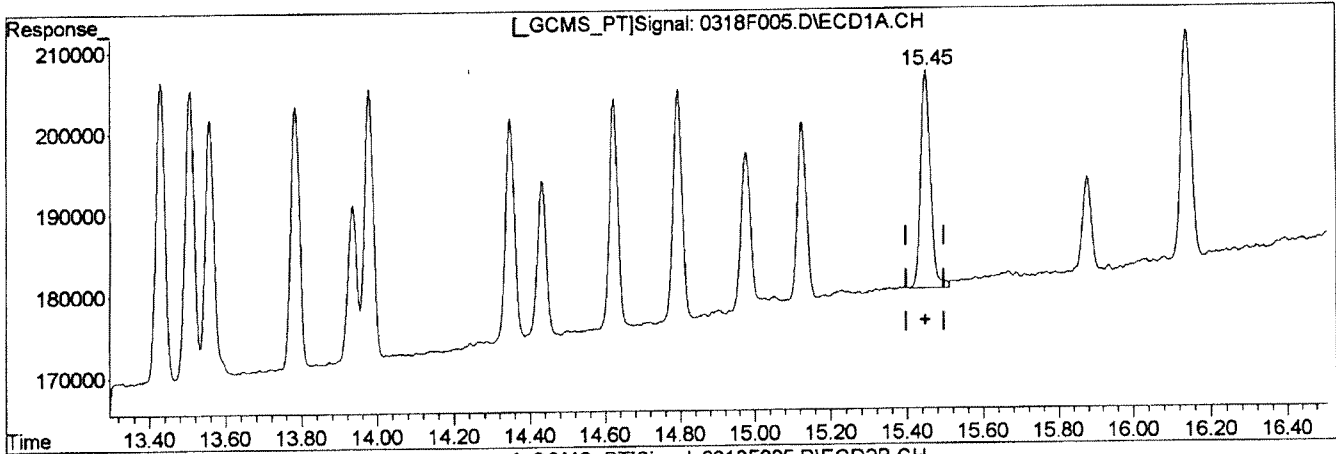
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:22:27 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
15.45	2.970	48651
14.34	2.551	18241

Manual Integration: Before 03/19/14

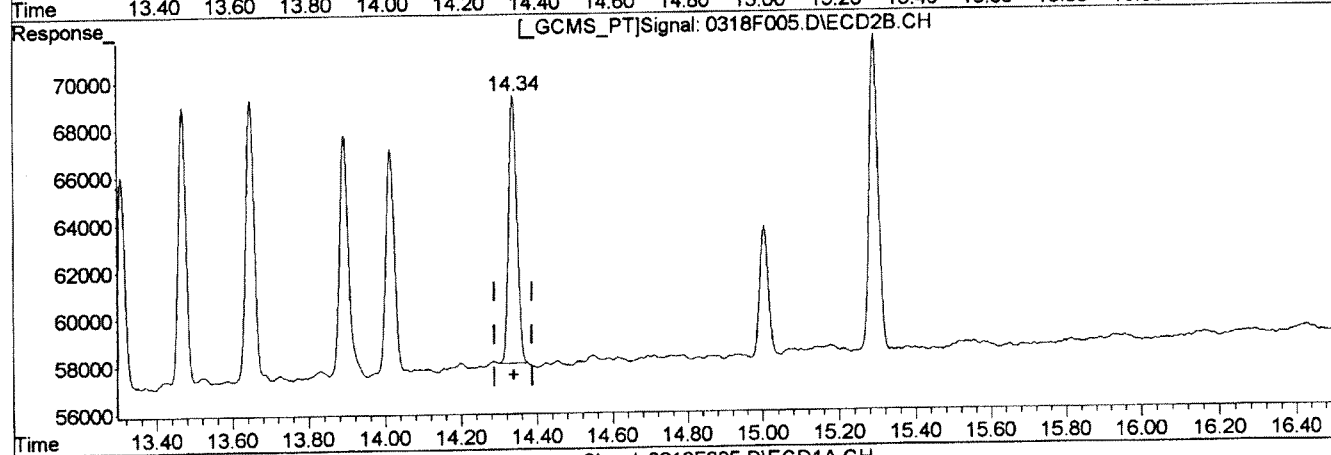
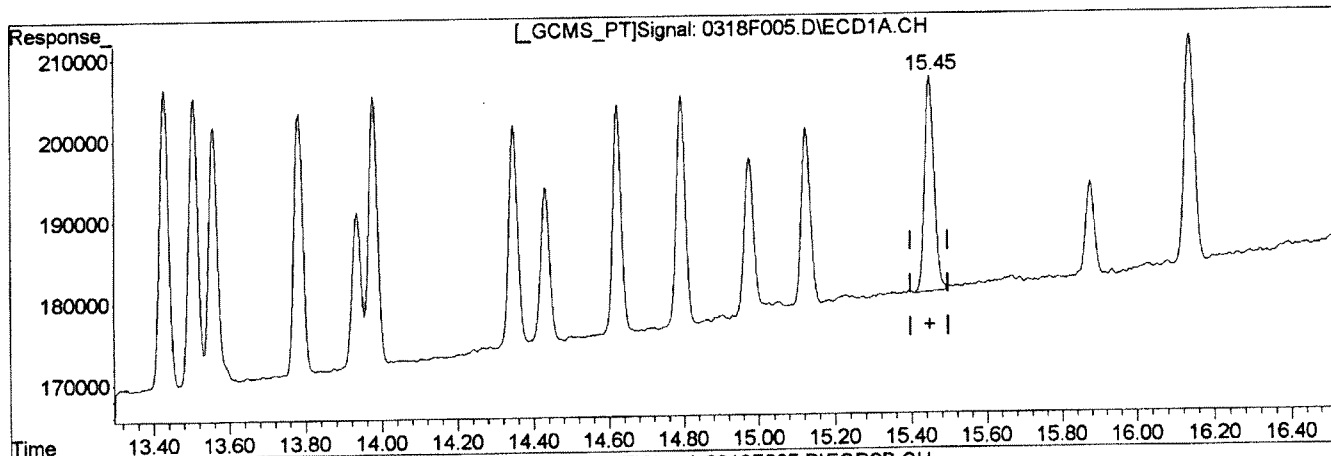
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:22:29 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
 Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
 Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
 Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 18:14:57 2014
 Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

(21) Endosulfan Sulfate	Manual Integration:
15.45min 2.858ug/L m	After
response 46815	Baseline/Shoulder
	03/19/14
(21) Endosulfan Sulfate #2	
14.34min 2.405ug/L m	
response 17192	

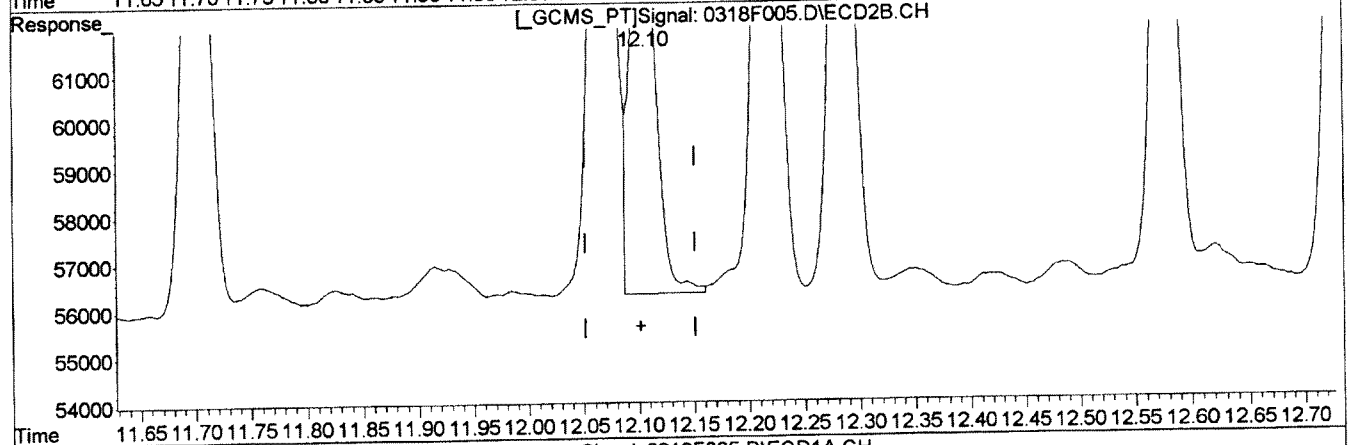
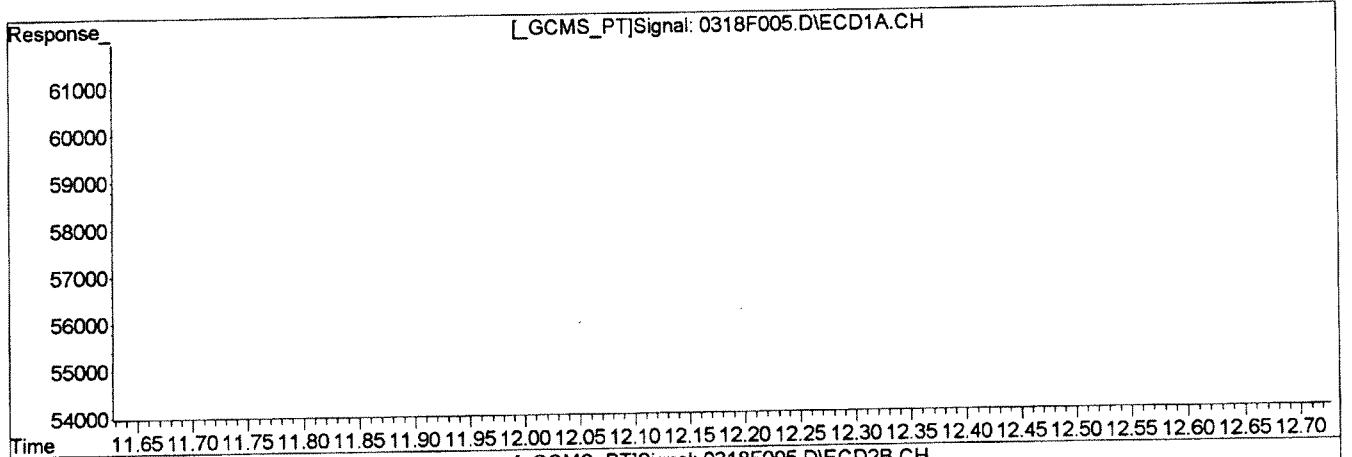
(+) = Expected Retention Time
 0318F005.D GC23-031714-8081.M

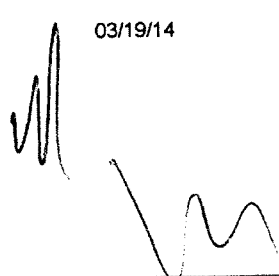
Wed Mar 19 12:22:38 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH		Manual Integration:
(25) 2,4'-DDE		Before
13.19min 2.501ug/L		
response 34040		
(25) 2,4'-DDE #2		03/19/14
12.10min 2.807ug/L		
response 14856		

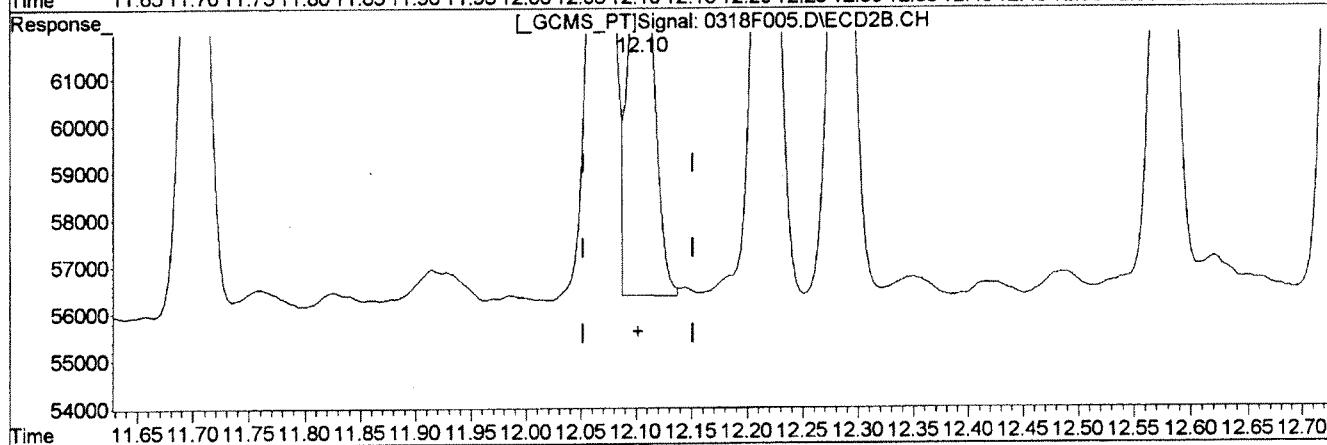
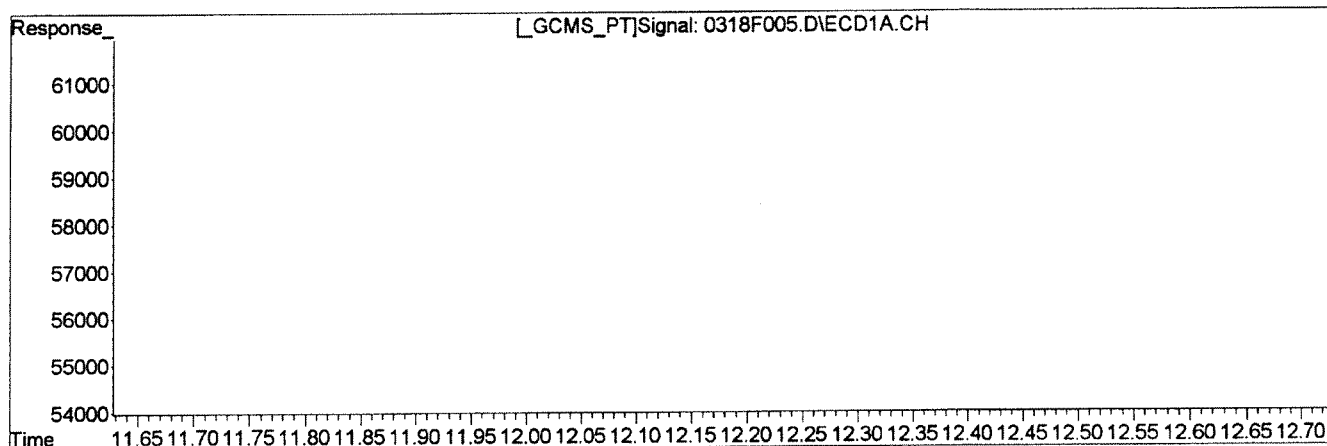
(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M

Wed Mar 19 12:22:45 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
 Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
 Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
 Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 18:14:57 2014
 Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH		Manual Integration:
(25) 2,4'-DDE		After
13.19min 2.501ug/L		Baseline/Shoulder
response 34040		03/19/14
(25) 2,4'-DDE #2		
12.10min 2.715ug/L m		
response 14372		

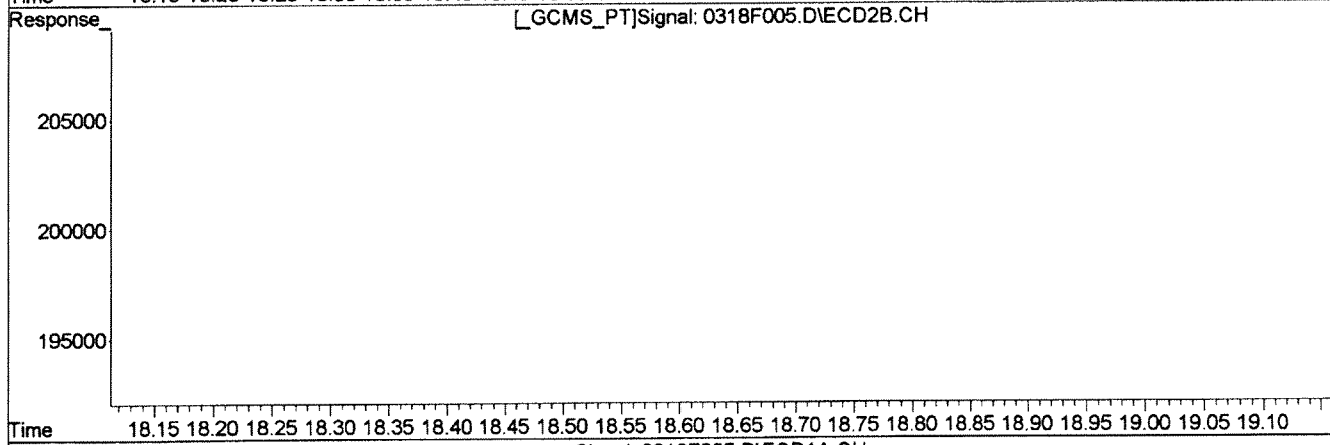
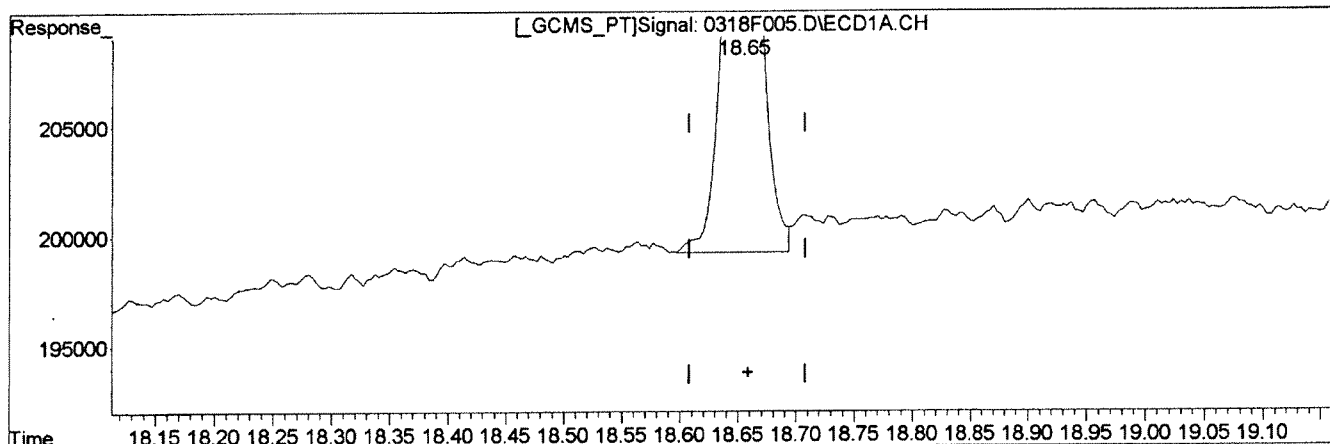
(+) = Expected Retention Time
 0318F005.D GC23-031714-8081.M

Wed Mar 19 12:22:49 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
 Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
 Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
 Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 18:14:57 2014
 Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH

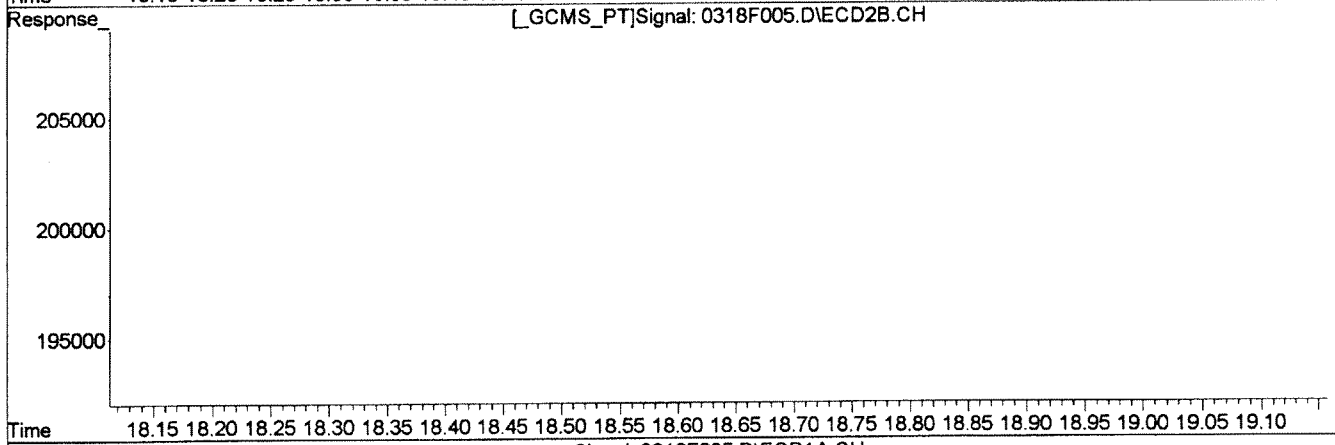
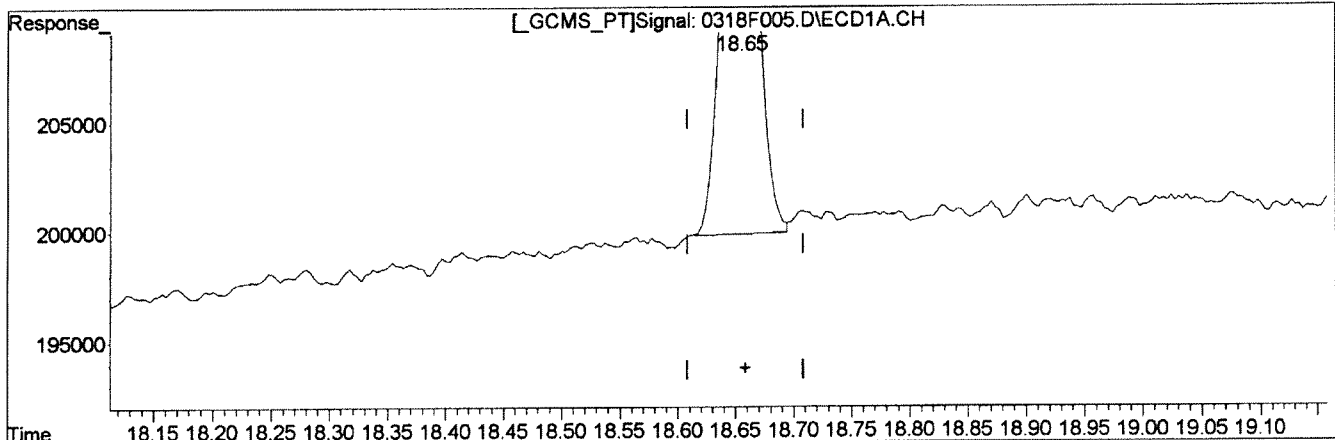
<p>(28) Decachlorobiphenyl (s) 18.65min 2.537ug/L response 55523</p> <p>(28) Decachlorobiphenyl #2 (s) 17.17min 2.439ug/L response 18794</p>	<p>Manual Integration: Before</p> <p style="text-align: center;">03/19/14</p>
--	--

(+) = Expected Retention Time
 0318F005.D GC23-031714-8081.M Wed Mar 19 12:22:57 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F005.D\ECD1A.CH Vial: 93
Signal #2 : J:\GC23\DATA\031814C\0318F005.D\ECD2B.CH
Acq On : 19 Mar 2014 12:13 am Operator: SMURRAY
Sample : 81/24 @ 2ppb GCPS7-77E Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 18:14:57 2014
Response via : Multiple Level Calibration



Signal: 0318F005.D\ECD1A.CH	
(28) Decachlorobiphenyl (s)	Manual Integration:
18.65min 2.352ug/L m	After
response 52164	Baseline/Shoulder
	03/19/14
(28) Decachlorobiphenyl #2 (s)	
17.17min 2.439ug/L	
response 18794	

(+) = Expected Retention Time
0318F005.D GC23-031714-8081.M Wed Mar 19 12:23:00 2014

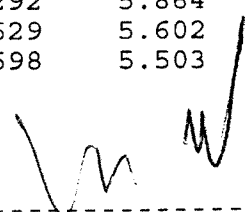
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F006.D\ECD1A.CH Vial: 94
 Signal #2 : J:\GC23\DATA\031814C\0318F006.D\ECD2B.CH
 Acq On : 19 Mar 2014 12:43 am Operator: SMURRAY
 Sample : 81/24 @ 5ppb GCPS7-77F Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:23:21 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:23:12 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrobenzene	6.16	5.56	1861965	721653	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xylene	8.93	7.36	128966	48387	5.167	5.010
28) s Decachlorobiphenyl	18.65	17.18	117077	42180	5.367	5.163
Target Compounds						
3) alpha-BHC	9.78	8.60	136506	52650	4.705	4.597
4) Hexachlorobenzene	9.94	8.38	160709	56784	5.294	5.092
5) beta-BHC	11.05	9.88	66899	27080	3.877	5.170 #
6) gamma-BHC (Lindane)	10.45	9.35	128809	49362	4.848	4.700
7) delta-BHC	11.55	10.41	122068	49399	4.754	4.881
8) Heptachlor	11.65	10.04	131869	48960	5.405	5.103
9) Aldrin	12.18	10.63	130343	53089	5.007	4.847
10) Isodrin	12.71	11.43	112372	45987	5.100	5.098
11) Heptachlor Epoxide	12.91	11.70	122334	48799	5.165	5.086
12) gamma-Chlordane	13.43	12.07	124772	48811	5.176	4.517
13) Endosulfan I	13.56	12.28	114215	43214	5.342	4.861
14) alpha-Chlordane	13.51	12.22	124630	49210	5.209	4.864m
15) Dieldrin	13.98	12.73	117006	49294	5.153	5.038
16) 4,4'-DDE	13.78	12.58	115327	49200	4.953	4.896m
17) Endrin	14.35	13.21	103519	45055	5.366	5.553
18) Endosulfan II	14.79	13.65	100931	40252	5.252	4.913
19) 4,4'-DDD	14.62	13.47	92206	37723	4.888	4.872
20) Endrin Aldehyde	14.98	14.01	70730	31162	5.036	4.969
21) Endosulfan Sulfoxide	15.45	14.34	96141	36798	5.365m	4.887
22) 4,4'-DDT	15.13	13.89	79924	36479	5.068	5.138
23) Endrin Ketone	16.14	15.29	111369	46327	5.141	4.918
24) Methoxychlor	15.88	15.00	44470	18946	5.678	5.334
25) 2,4'-DDE	13.20	12.10	85363	32292	5.864	5.649
26) 2,4'-DDD	13.93	12.88	74142	29529	5.602	5.273m
27) 2,4'-DDT	14.43	13.31	73104	30598	5.503	5.164

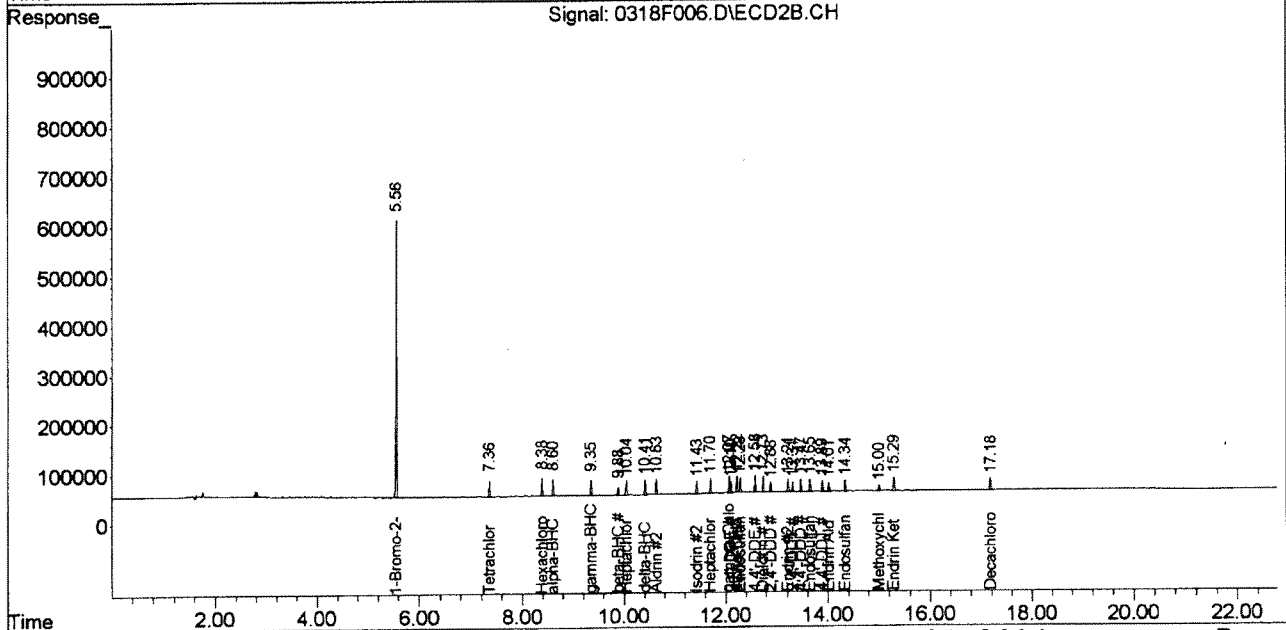
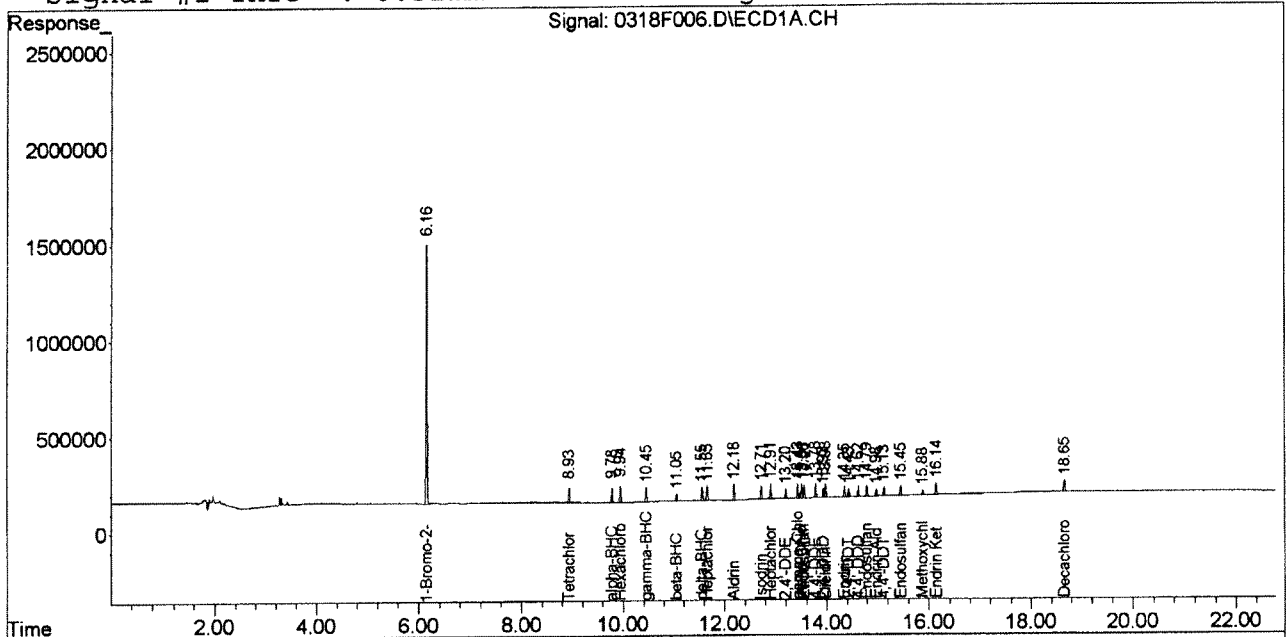


Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F006.D\ECD1A.CH Vial: 94
 Signal #2 : J:\GC23\DATA\031814C\0318F006.D\ECD2B.CH
 Acq On : 19 Mar 2014 12:43 am Operator: SMURRAY
 Sample : 81/24 @ 5ppb GCPS7-77F Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:24 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:23:12 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

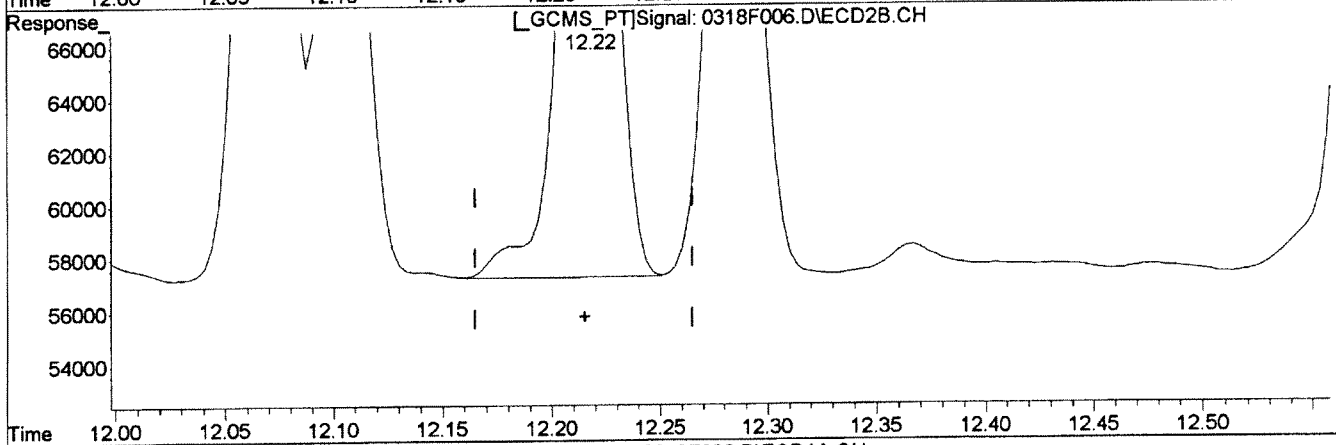
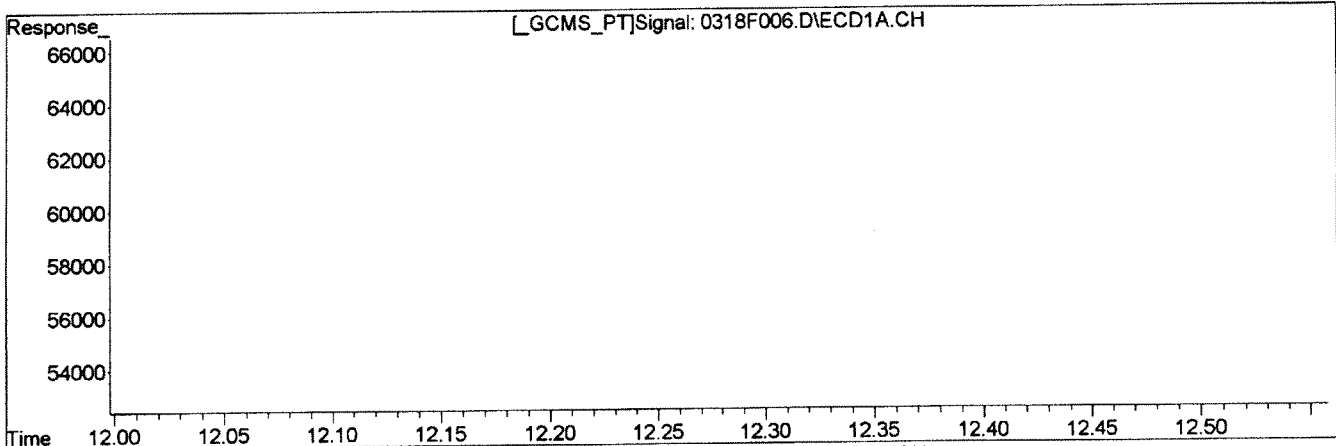
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F006.D\ECD1A.CH Vial: 94
Signal #2 : J:\GC23\DATA\031814C\0318F006.D\ECD2B.CH
Acq On : 19 Mar 2014 12:43 am Operator: SMURRAY
Sample : 81/24 @ 5ppb GCPS7-77F Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:23 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:23:12 2014
Response via : Multiple Level Calibration



Signal: 0318F006.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(14) alpha-Chlordane	5.209	124630
(14) alpha-Chlordane #2	5.012	50712

Manual Integration:
Before
03/19/14

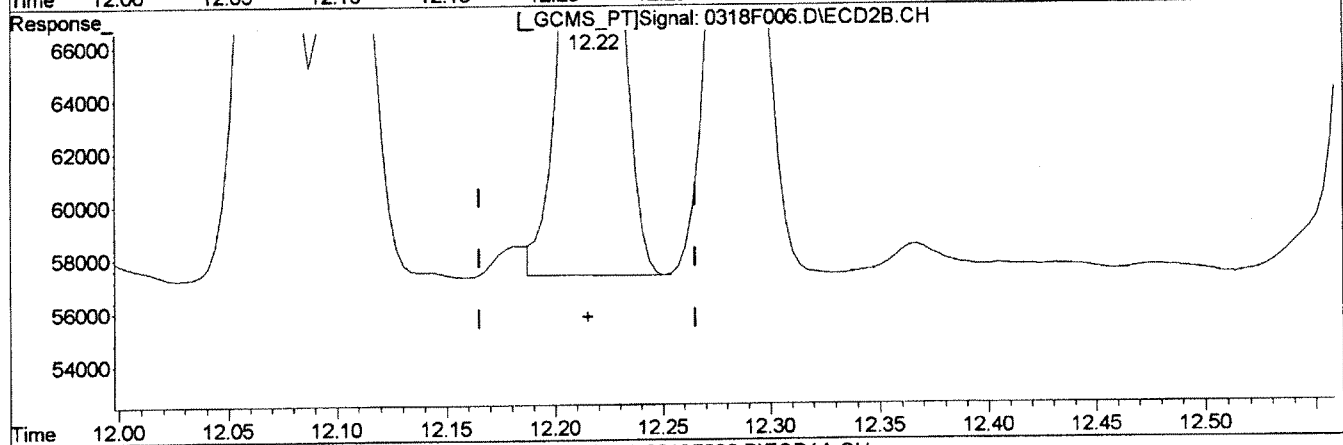
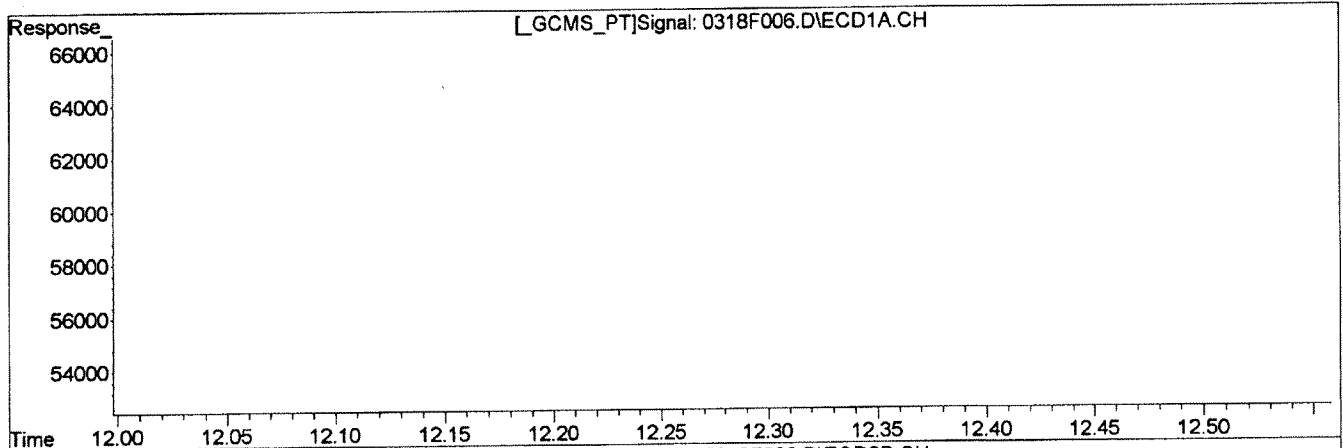
(+) = Expected Retention Time
0318F006.D GC23-031714-8081.M

Wed Mar 19 12:23:44 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F006.D\ECD1A.CH Vial: 94
Signal #2 : J:\GC23\DATA\031814C\0318F006.D\ECD2B.CH
Acq On : 19 Mar 2014 12:43 am Operator: SMURRAY
Sample : 81/24 @ 5ppb GCPS7-77F Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:23 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:23:12 2014
Response via : Multiple Level Calibration



Signal: 0318F006.D\ECD1A.CH		Manual Integration:
(14) alpha-Chlordane		After
13.51min 5.209ug/L		Baseline/Shoulder
response 124630		03/19/14
(14) alpha-Chlordane #2		
12.22min 4.864ug/L m		
response 49210		

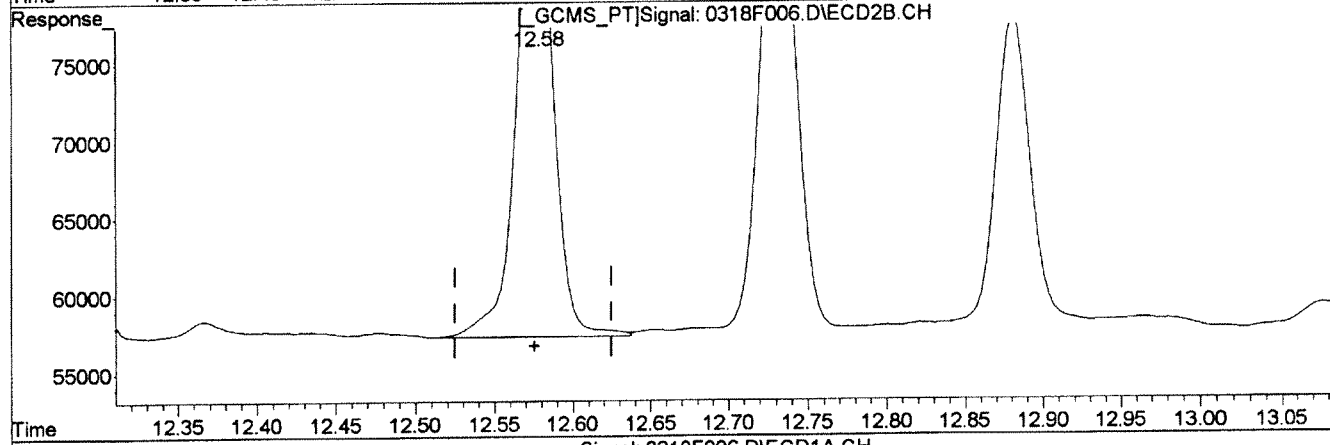
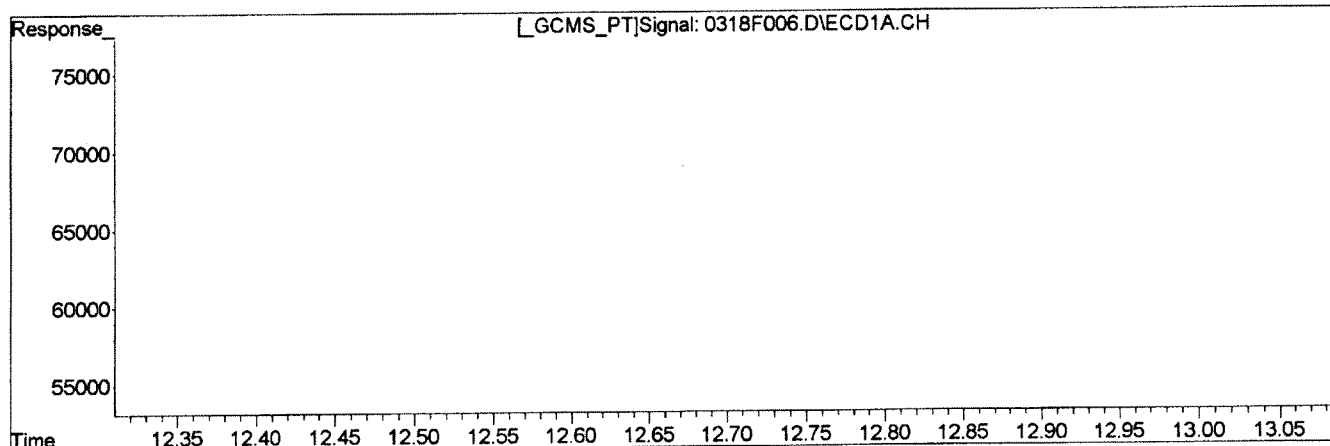
(+) = Expected Retention Time
0318F006.D GC23-031714-8081.M

Wed Mar 19 12:23:48 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F006.D\ECD1A.CH Vial: 94
 Signal #2 : J:\GC23\DATA\031814C\0318F006.D\ECD2B.CH
 Acq On : 19 Mar 2014 12:43 am Operator: SMURRAY
 Sample : 81/24 @ 5ppb GCPS7-77F Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:23 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:23:12 2014
 Response via : Multiple Level Calibration



Signal: 0318F006.D\ECD1A.CH		Manual Integration:
(16) 4,4'-DDE		Before
13.78min 4.953ug/L		
response 115327		03/19/14
(16) 4,4'-DDE #2		
12.58min 5.149ug/L		
response 51744		

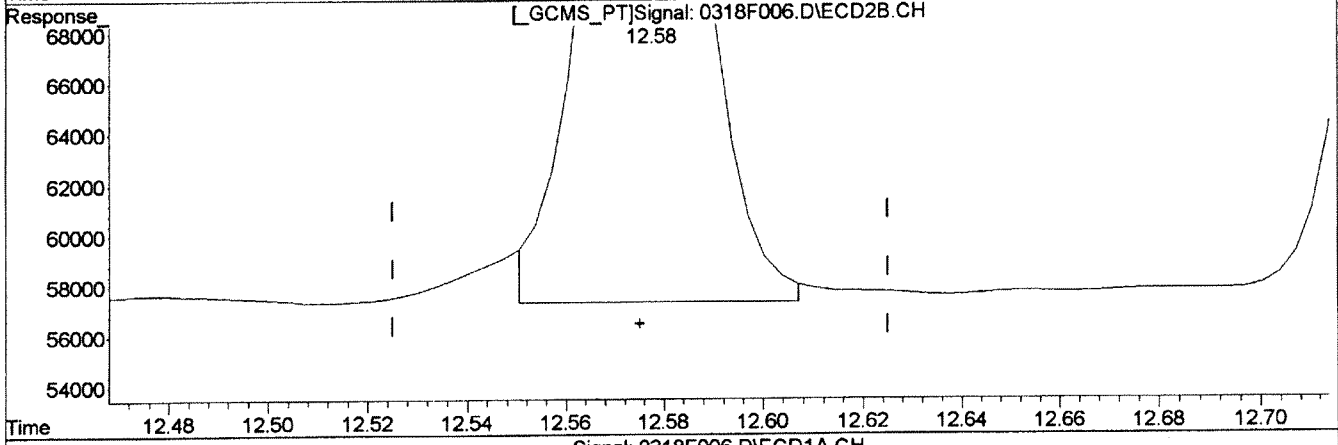
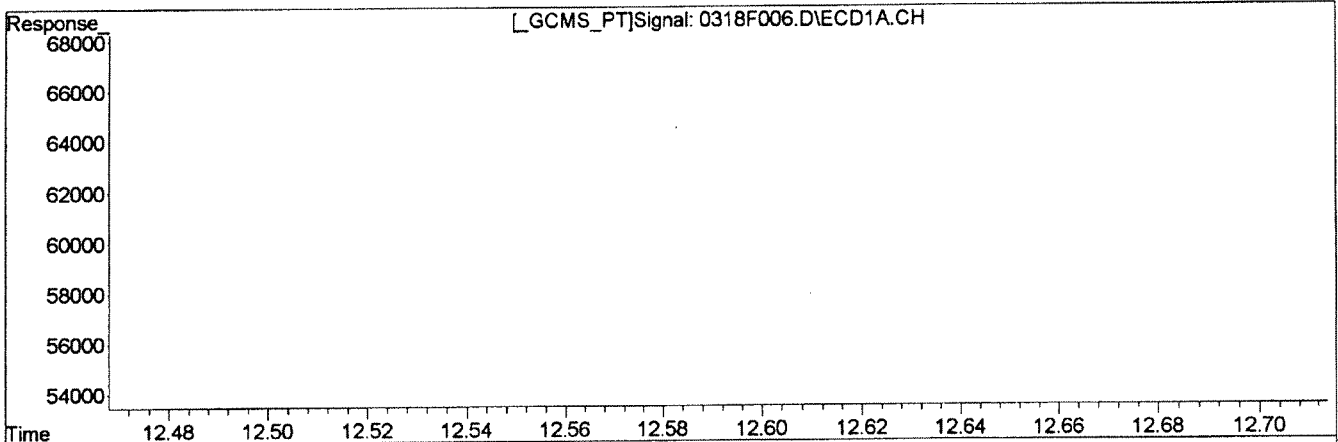
(+) = Expected Retention Time
 0318F006.D GC23-031714-8081.M



Wed Mar 19 12:23:51 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F006.D\ECD1A.CH Vial: 94
Signal #2 : J:\GC23\DATA\031814C\0318F006.D\ECD2B.CH
Acq On : 19 Mar 2014 12:43 am Operator: SMURRAY
Sample : 81/24 @ 5ppb GCPS7-77F Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:23 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:23:12 2014
Response via : Multiple Level Calibration



Signal: 0318F006.D\ECD1A.CH	
(16) 4,4'-DDE	Manual Integration:
13.78min 4.953ug/L	After
response 115327	Baseline/Shoulder
	03/19/14
(16) 4,4'-DDE #2	
12.58min 4.896ug/L m	
response 49200	

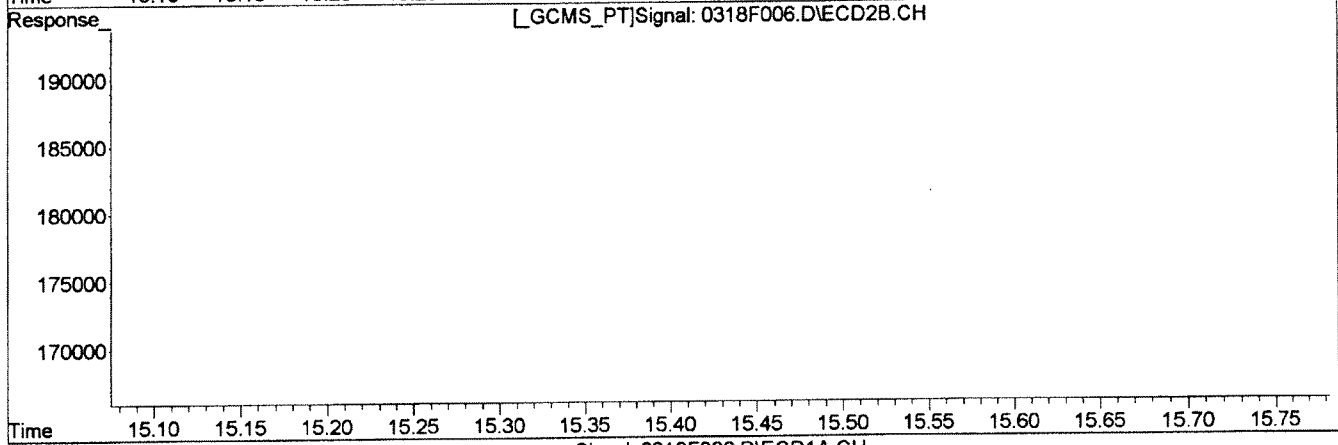
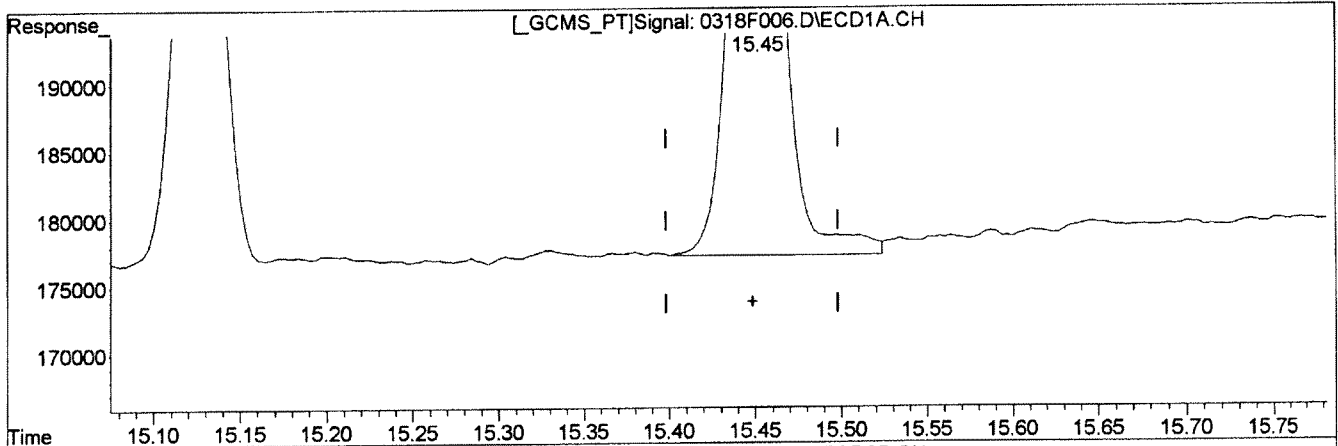
(+) = Expected Retention Time
0318F006.D GC23-031714-8081.M

Wed Mar 19 12:23:56 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F006.D\ECD1A.CH Vial: 94
Signal #2 : J:\GC23\DATA\031814C\0318F006.D\ECD2B.CH
Acq On : 19 Mar 2014 12:43 am Operator: SMURRAY
Sample : 81/24 @ 5ppb GCPS7-77F Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:23 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:23:12 2014
Response via : Multiple Level Calibration



Signal: 0318F006.D\ECD1A.CH		Manual Integration:
(21) Endosulfan Sulfate		Before
15.45min 5.528ug/L		
response 99054		03/19/14
(21) Endosulfan Sulfate #2		
14.34min 4.887ug/L		
response 36798		

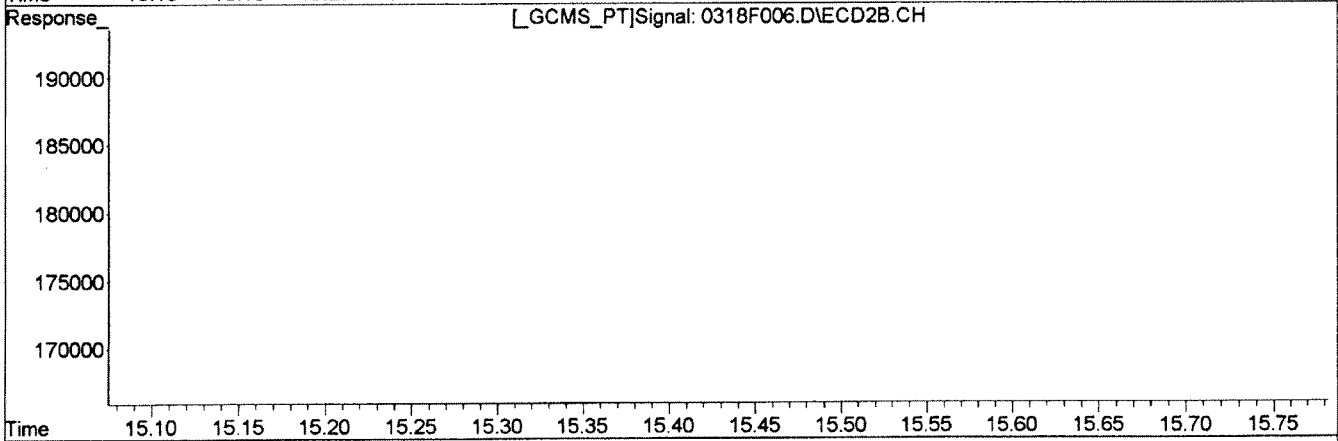
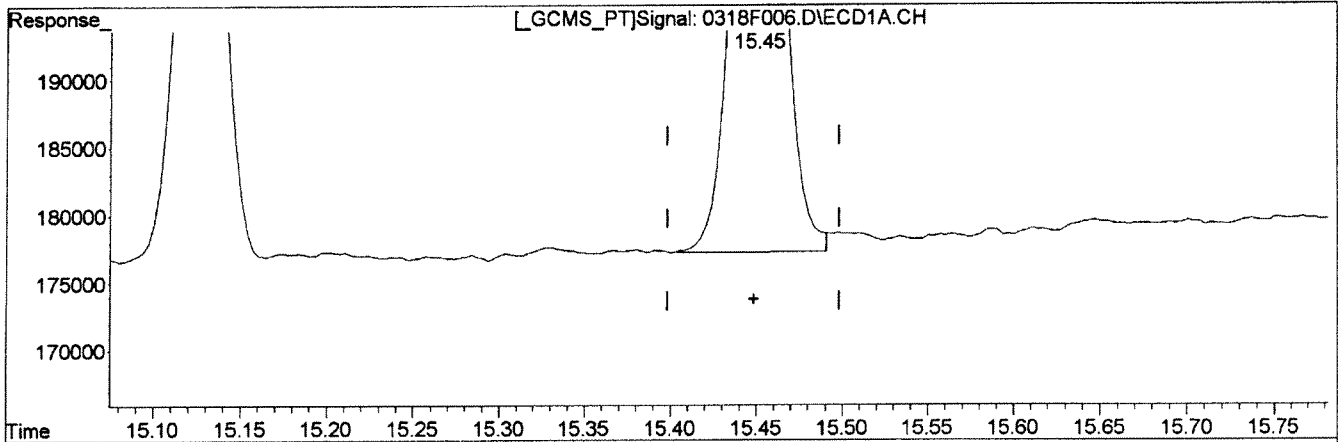
(+) = Expected Retention Time
0318F006.D GC23-031714-8081.M

Wed Mar 19 12:24:03 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F006.D\ECD1A.CH Vial: 94
Signal #2 : J:\GC23\DATA\031814C\0318F006.D\ECD2B.CH
Acq On : 19 Mar 2014 12:43 am Operator: SMURRAY
Sample : 81/24 @ 5ppb GCPS7-77F Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:23 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:23:12 2014
Response via : Multiple Level Calibration



Signal: 0318F006.D\ECD1A.CH		Manual Integration:
(21) Endosulfan Sulfate		After
15.45min 5.365ug/L m		Baseline/Shoulder
response 96141		03/19/14
(21) Endosulfan Sulfate #2		
14.34min 4.887ug/L		
response 36798		

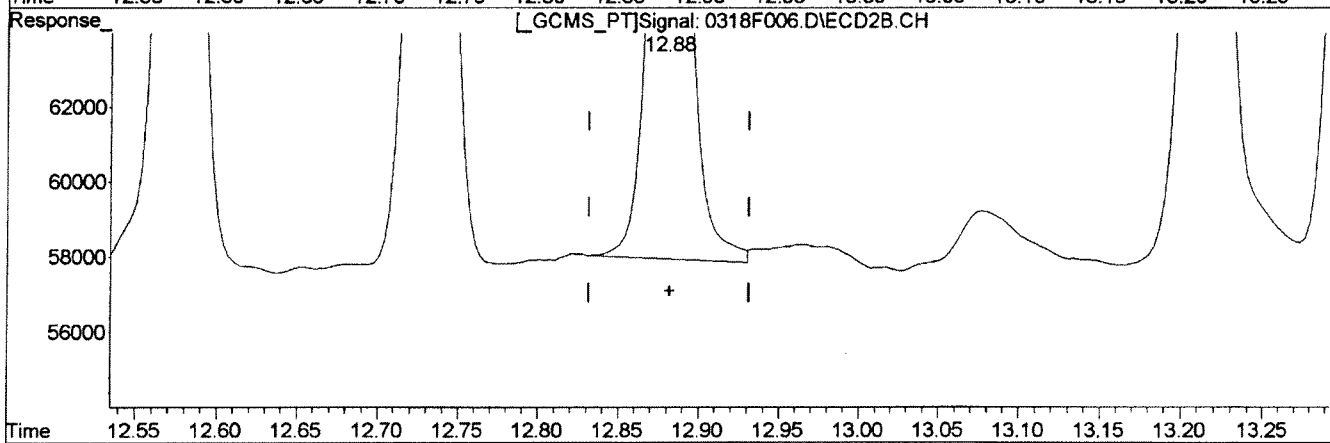
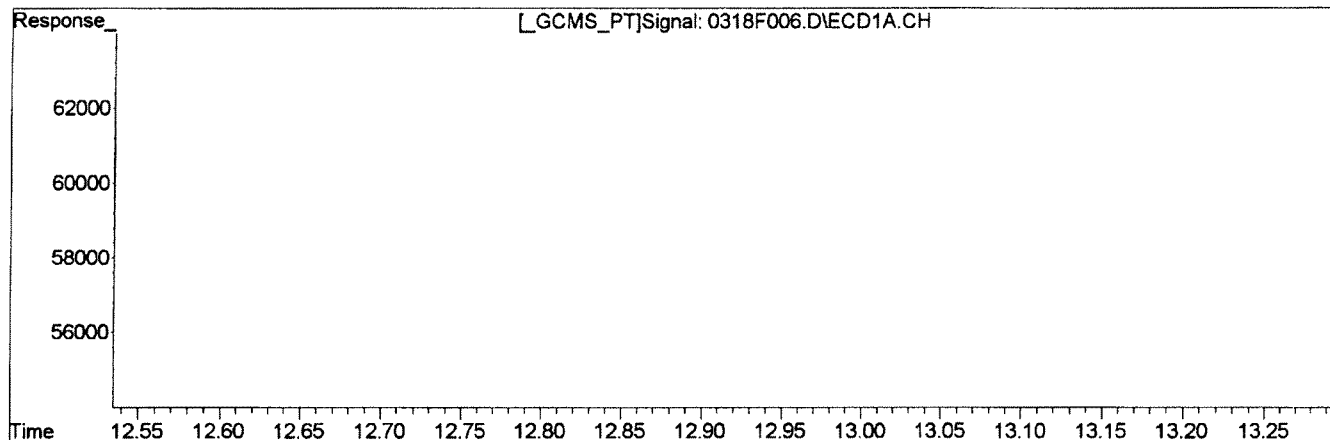
(+) = Expected Retention Time
0318F006.D GC23-031714-8081.M

Wed Mar 19 12:24:05 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F006.D\ECD1A.CH Vial: 94
Signal #2 : J:\GC23\DATA\031814C\0318F006.D\ECD2B.CH
Acq On : 19 Mar 2014 12:43 am Operator: SMURRAY
Sample : 81/24 @ 5ppb GCPS7-77F Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:23 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:23:12 2014
Response via : Multiple Level Calibration



Signal: 0318F006.D\ECD1A.CH	
(26) 2,4'-DDD	Manual Integration:
13.93min 5.602ug/L	Before
response 74142	03/19/14
(26) 2,4'-DDD #2	
12.88min 5.435ug/L	
response 30435	

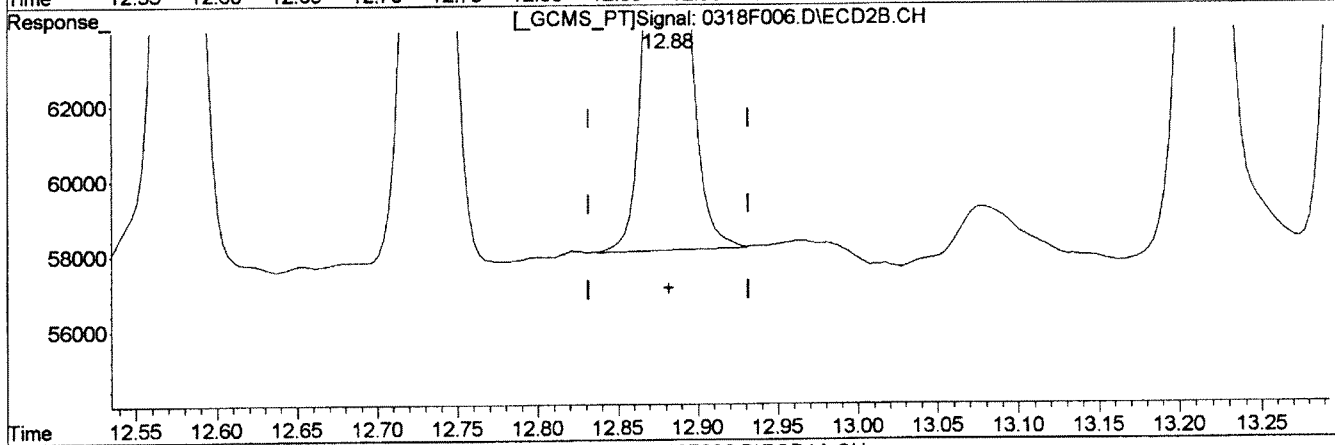
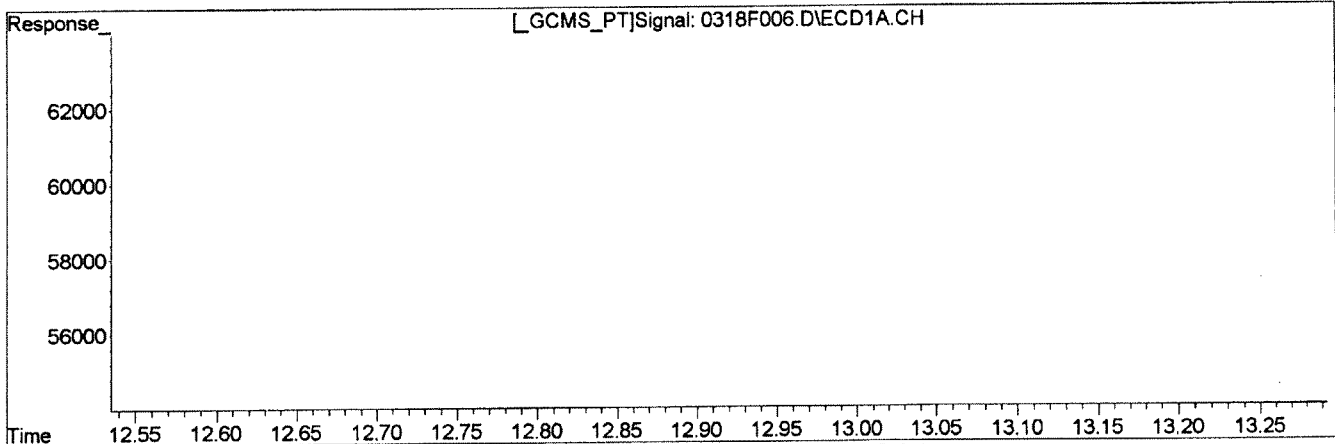
(+) = Expected Retention Time
0318F006.D GC23-031714-8081.M

Wed Mar 19 12:24:14 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F006.D\ECD1A.CH Vial: 94
Signal #2 : J:\GC23\DATA\031814C\0318F006.D\ECD2B.CH
Acq On : 19 Mar 2014 12:43 am Operator: SMURRAY
Sample : 81/24 @ 5ppb GCPS7-77F Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:23 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:23:12 2014
Response via : Multiple Level Calibration



Signal: 0318F006.D\ECD1A.CH	
(26) 2,4'-DDD	Manual Integration:
13.93min 5.602ug/L	After
response 74142	Baseline/Shoulder
	03/19/14
(26) 2,4'-DDD #2	
12.88min 5.273ug/L m	
response 29529	

(+) = Expected Retention Time
0318F006.D GC23-031714-8081.M

Wed Mar 19 12:24:17 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F007.D\ECD1A.CH Vial: 95
 Signal #2 : J:\GC23\DATA\031814C\0318F007.D\ECD2B.CH
 Acq On : 19 Mar 2014 1:12 am Operator: SMURRAY
 Sample : 81/24 @ 20ppb GCPS7-77G Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:24:39 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:24:32 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

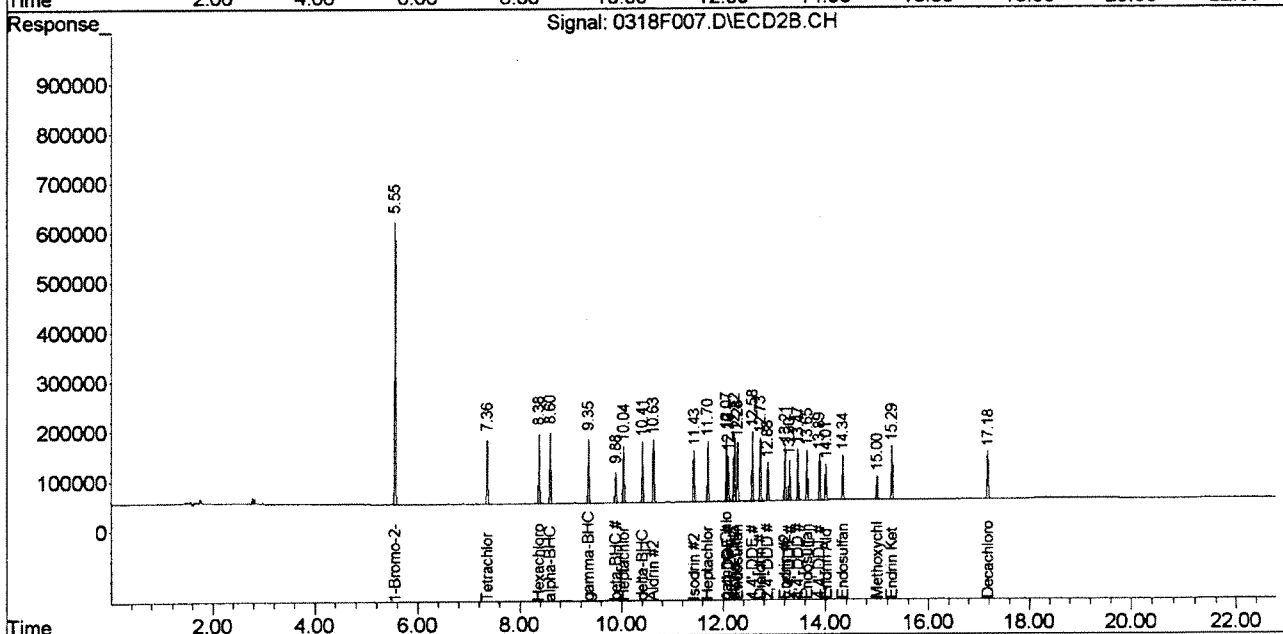
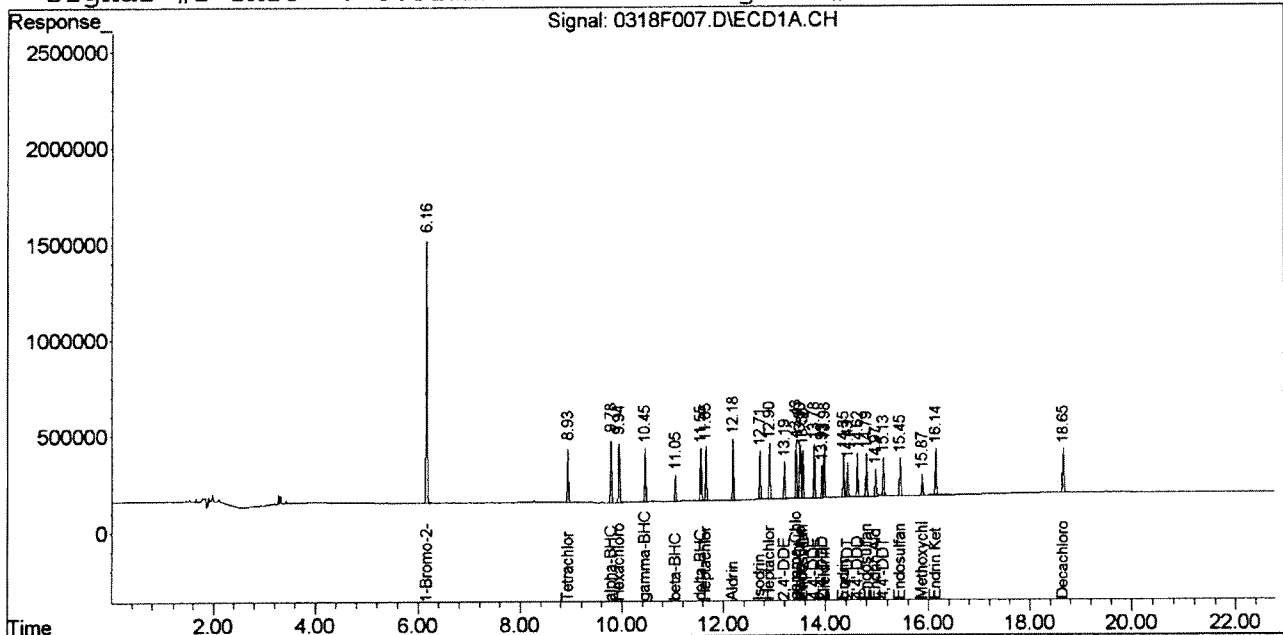
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.16	5.55	1880080	726921	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.93	7.36	470030	186615	21.240	19.316
28) s Decachlorobiphen	18.65	17.18	438848	163939	22.162	19.888
Target Compounds						
3) alpha-BHC	9.78	8.60	523250	216914	17.824	18.801
4) Hexachlorobenzen	9.94	8.38	552425	216251	21.127	19.393
5) beta-BHC	11.05	9.88	243966	100819	20.598	19.095
6) gamma-BHC (Linda	10.45	9.35	486152	200165	18.091	18.930
7) delta-BHC	11.55	10.41	470264	193438	18.086	18.771
8) Heptachlor	11.65	10.04	481741	191389	19.211	19.599
9) Aldrin	12.18	10.63	496294	213203	18.826	19.390
10) Isodrin	12.71	11.43	419891	176229	18.921	19.356
11) Heptachlor Epoxi	12.90	11.70	456579	187708	18.920	19.355
12) gamma-Chlordane	13.43	12.07	460790	192703	18.826	17.943
13) Endosulfan I	13.56	12.28	408295	170013	18.729	19.117
14) alpha-Chlordane	13.50	12.22	459901	191708	18.959	18.912
15) Dieldrin	13.98	12.73	438075	188415	18.930	18.967
16) 4,4'-DDE	13.78	12.58	446643	191140	18.939	18.925
17) Endrin	14.35	13.21	388772	163981	19.566	19.630
18) Endosulfan II	14.79	13.65	377530	155742	19.102	18.879
19) 4,4'-DDD	14.62	13.47	360970	148512	18.886	19.096
20) Endrin Aldehyde	14.97	14.01	266326	117980	18.641	18.662
21) Endosulfan Sulfa	15.45	14.34	349600	144911	18.868	19.136
22) 4,4'-DDT	15.13	13.89	334919	140594	20.444m	19.293
23) Endrin Ketone	16.14	15.29	425855	181739	19.223	19.183
24) Methoxychlor	15.87	15.00	180844	75982	21.952	21.008
25) 2,4'-DDE	13.19	12.10	301008	124615	20.143	21.378
26) 2,4'-DDD	13.93	12.88	279096	112641	20.616	19.998
27) 2,4'-DDT	14.43	13.30	289837	121094	21.182	20.346

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F007.D\ECD1A.CH Vial: 95
 Signal #2 : J:\GC23\DATA\031814C\0318F007.D\ECD2B.CH
 Acq On : 19 Mar 2014 1:12 am Operator: SMURRAY
 Sample : 81/24 @ 20ppb GCPS7-77G Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:25 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:24:32 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

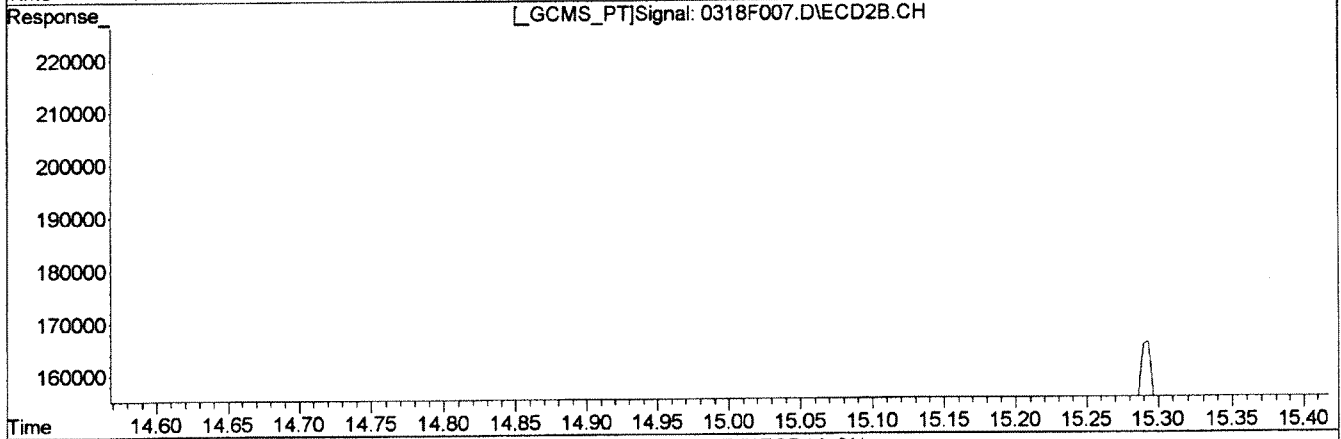
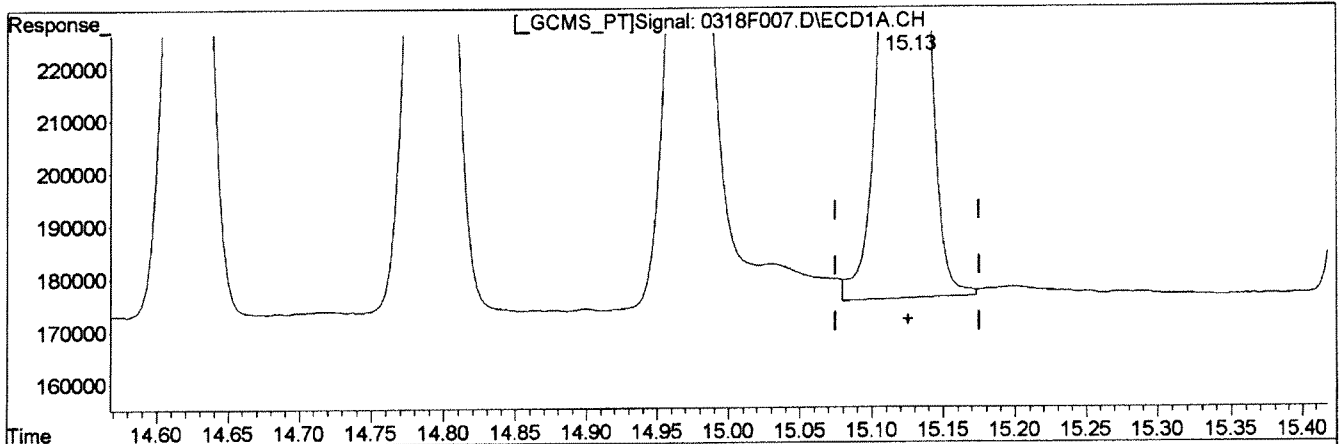
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F007.D\ECD1A.CH Vial: 95
Signal #2 : J:\GC23\DATA\031814C\0318F007.D\ECD2B.CH
Acq On : 19 Mar 2014 1:12 am Operator: SMURRAY
Sample : 81/24 @ 20ppb GCPS7-77G Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:24 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:24:32 2014
Response via : Multiple Level Calibration



Signal: 0318F007.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(22) 4,4'-DDT	20.952	343245
(22) 4,4'-DDT #2	19.293	140594

Manual Integration:
Before
03/19/14

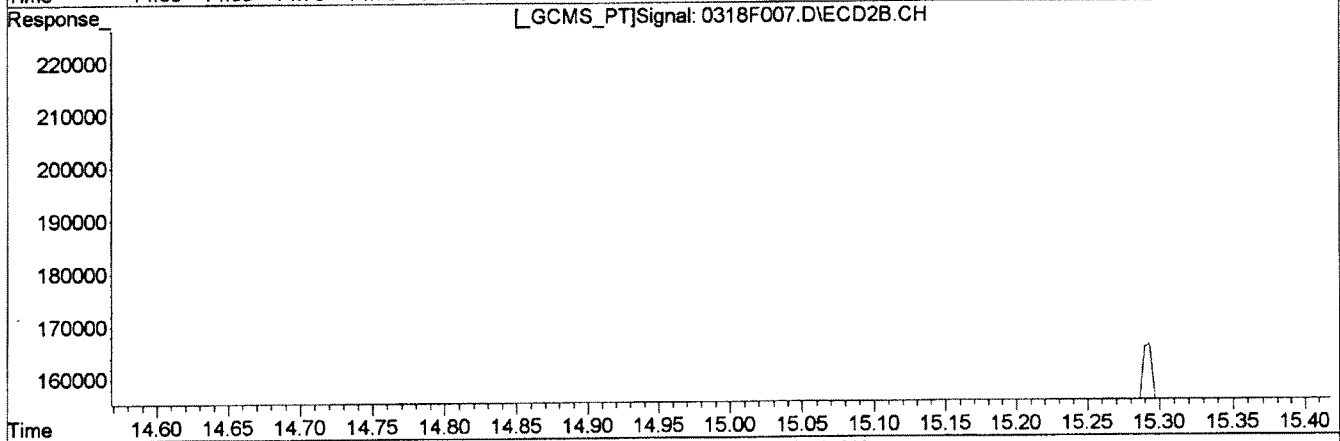
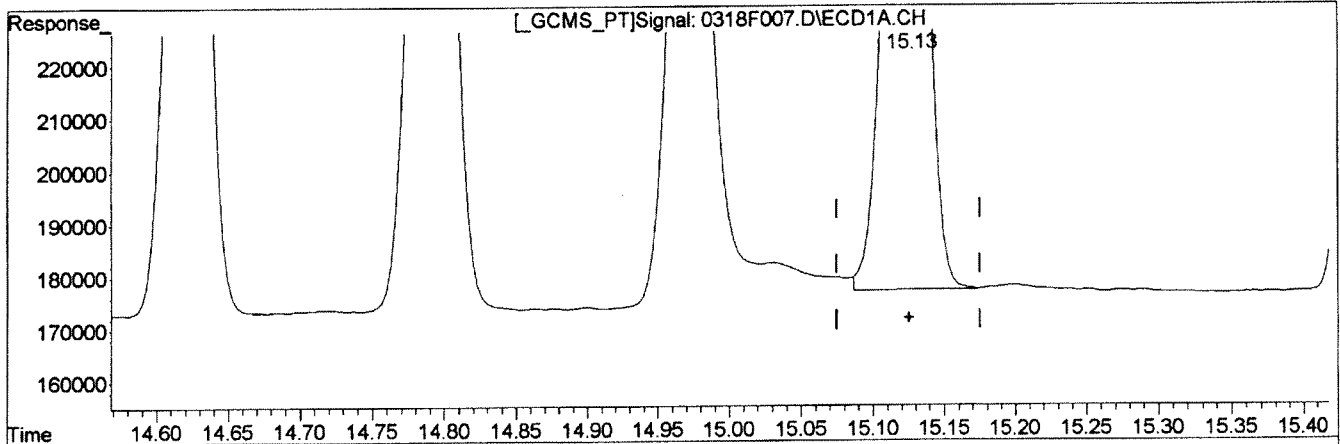
(+) = Expected Retention Time
0318F007.D GC23-031714-8081.M

Wed Mar 19 12:25:05 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F007.D\ECD1A.CH Vial: 95
Signal #2 : J:\GC23\DATA\031814C\0318F007.D\ECD2B.CH
Acq On : 19 Mar 2014 1:12 am Operator: SMURRAY
Sample : 81/24 @ 20ppb GCPS7-77G Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:24 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:24:32 2014
Response via : Multiple Level Calibration



Signal: 0318F007.D\ECD1A.CH	
(22) 4,4'-DDT	Manual Integration:
15.13min 20.444ug/L m	After
response 334919	Baseline/Shoulder
	03/19/14
(22) 4,4'-DDT #2	
13.89min 19.293ug/L	
response 140594	

(+) = Expected Retention Time
0318F007.D GC23-031714-8081.M

Wed Mar 19 12:25:08 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F008.D\ECD1A.CH Vial: 96
 Signal #2 : J:\GC23\DATA\031814C\0318F008.D\ECD2B.CH
 Acq On : 19 Mar 2014 1:41 am Operator: SMURRAY
 Sample : 81/24 @ 50ppb GCPS7-80J Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:25:25 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:25:19 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

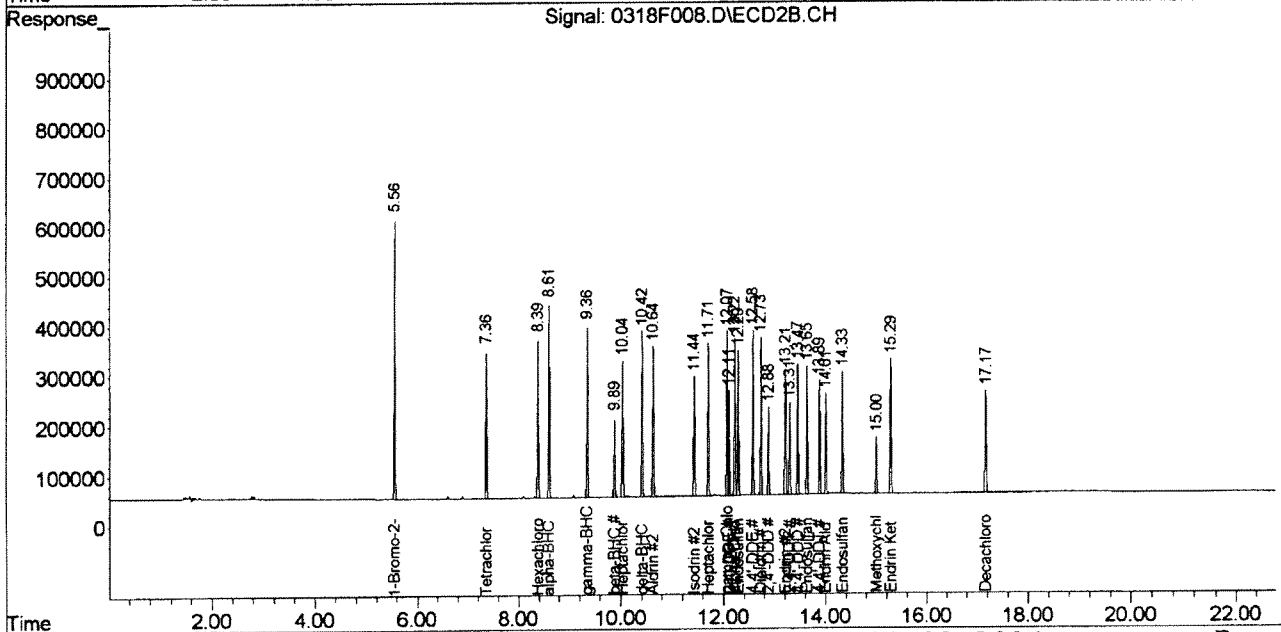
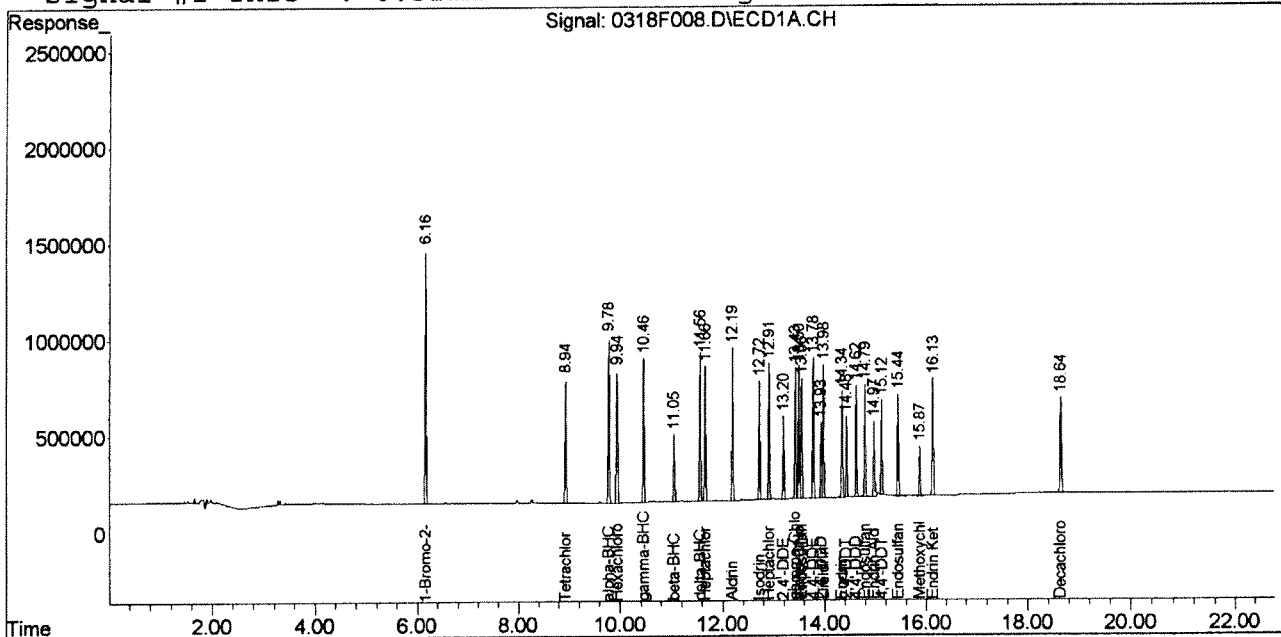
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.16	5.56	1846346	716033	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.94	7.36	1074668	435622	50.585	46.008
28) s Decachlorobiphen	18.64	17.17	965298	366556	50.729	45.374
Target Compounds						
3) alpha-BHC	9.78	8.61	1383880	577582	48.072	50.876
4) Hexachlorobenzen	9.94	8.39	1231155	495537	49.571	45.287
5) beta-BHC	11.05	9.89	613710	257219	56.230	49.520
6) gamma-BHC (Linda	10.46	9.36	1267173	527310	47.988	50.593
7) delta-BHC	11.56	10.42	1272096	530087	49.727	52.084
8) Heptachlor	11.66	10.04	1161626	459599	46.702	47.549
9) Aldrin	12.19	10.64	1193627	516189	46.043	47.725
10) Isodrin	12.72	11.44	986813	418538	45.358	46.710
11) Heptachlor Epoxi	12.91	11.71	1112545	459856	46.844	48.064
12) gamma-Chlordane	13.43	12.07	1114716	484107	46.251	46.172
13) Endosulfan I	13.56	12.29	1005746	424861	46.888	48.590
14) alpha-Chlordane	13.50	12.22	1102381	462981	46.191	46.563
15) Dieldrin	13.98	12.73	1099461	464450	48.089	47.401
16) 4,4'-DDE	13.78	12.58	1086612	466511	46.822	47.151
17) Endrin	14.34	13.21	940735	395648	47.696	47.682
18) Endosulfan II	14.79	13.65	977663	404113	49.791	49.807
19) 4,4'-DDD	14.62	13.47	916816	376338	48.612	49.252
20) Endrin Aldehyde	14.97	14.01	705750	318329	50.054	51.056m
21) Endosulfan Sulfa	15.44	14.33	936048	388810	50.774	51.963
22) 4,4'-DDT	15.12	13.89	813298	340363	49.503m	47.105
23) Endrin Ketone	16.13	15.29	1103969	461524	50.195	49.485
24) Methoxychlor	15.87	15.00	444054	178522	52.757	49.231
25) 2,4'-DDE	13.20	12.11	700306	283191	47.708	49.221
26) 2,4'-DDD	13.93	12.88	631673	261078	47.370	47.209
27) 2,4'-DDT	14.43	13.31	683960	283822	49.971	48.326

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F008.D\ECD1A.CH Vial: 96
 Signal #2 : J:\GC23\DATA\031814C\0318F008.D\ECD2B.CH
 Acq On : 19 Mar 2014 1:41 am Operator: SMURRAY
 Sample : 81/24 @ 50ppb GCPS7-80J Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:25 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:25:19 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

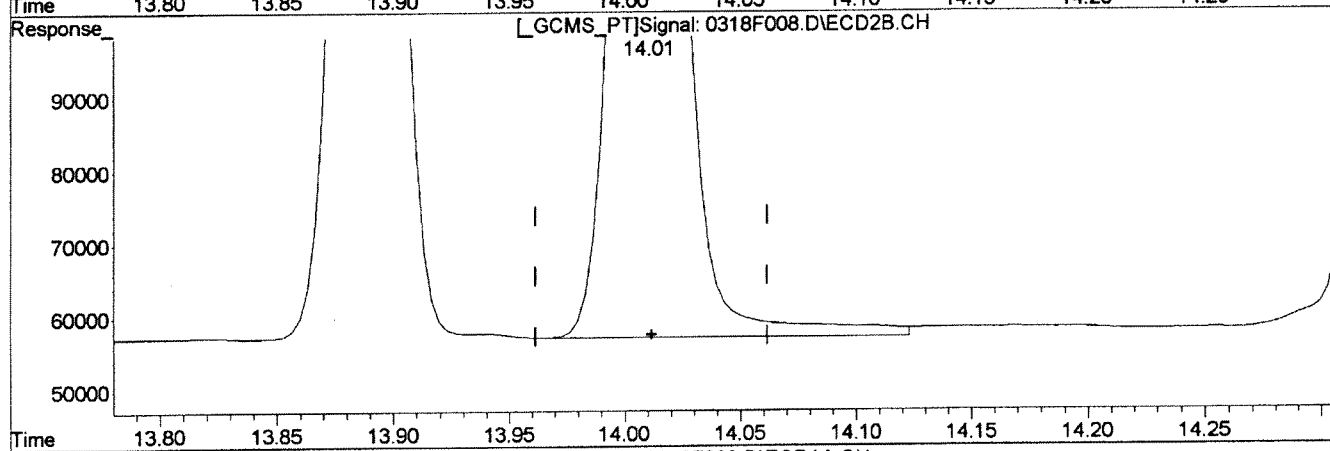
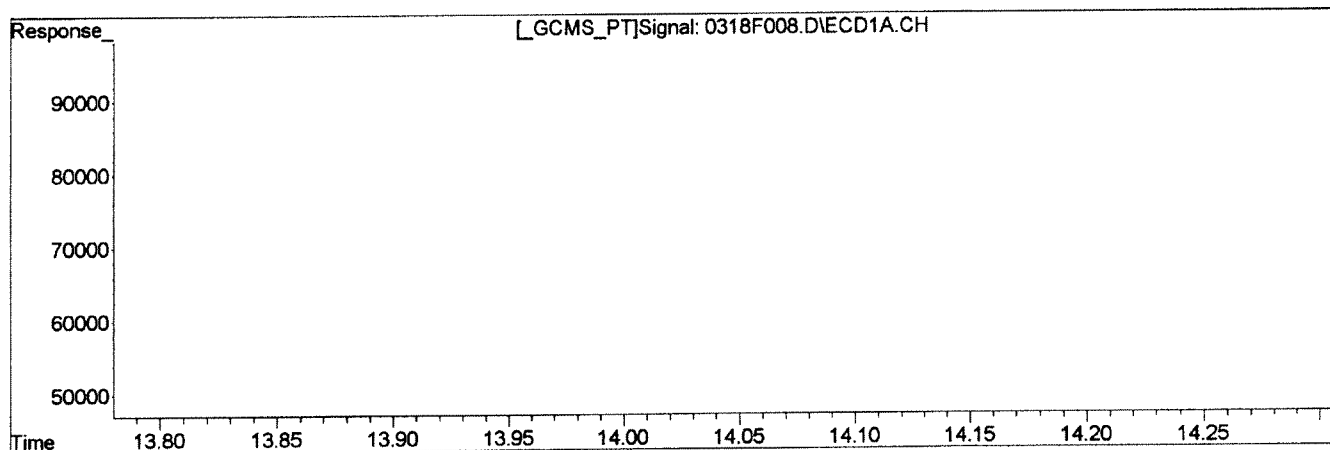
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F008.D\ECD1A.CH Vial: 96
Signal #2 : J:\GC23\DATA\031814C\0318F008.D\ECD2B.CH
Acq On : 19 Mar 2014 1:41 am Operator: SMURRAY
Sample : 81/24 @ 50ppb GCPS7-80J Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:25 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:25:19 2014
Response via : Multiple Level Calibration



Signal: 0318F008.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(20) Endrin Aldehyde	50.054	705750
(20) Endrin Aldehyde #2	52.050	324527

Manual Integration: Before

03/19/14

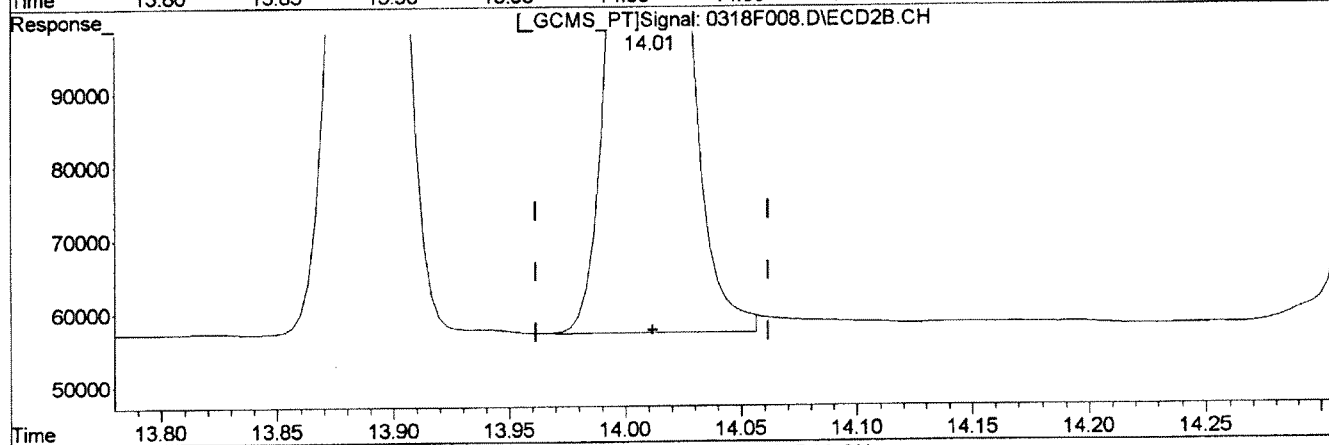
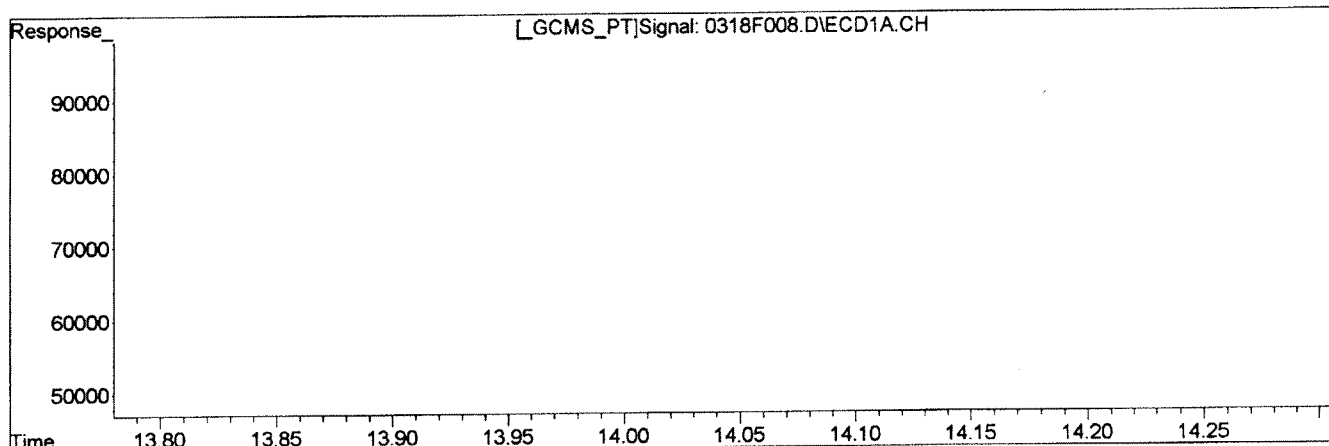
(+) = Expected Retention Time
0318F008.D GC23-031714-8081.M

Wed Mar 19 12:25:45 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F008.D\ECD1A.CH Vial: 96
 Signal #2 : J:\GC23\DATA\031814C\0318F008.D\ECD2B.CH
 Acq On : 19 Mar 2014 1:41 am Operator: SMURRAY
 Sample : 81/24 @ 50ppb GCPS7-80J Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:25 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:25:19 2014
 Response via : Multiple Level Calibration



Signal: 0318F008.D\ECD1A.CH		Manual Integration:
(20) Endrin Aldehyde		After
14.97min 50.054ug/L		Baseline/Shoulder
response 705750		03/19/14
(20) Endrin Aldehyde #2		
14.01min 51.056ug/L m		
response 318329		

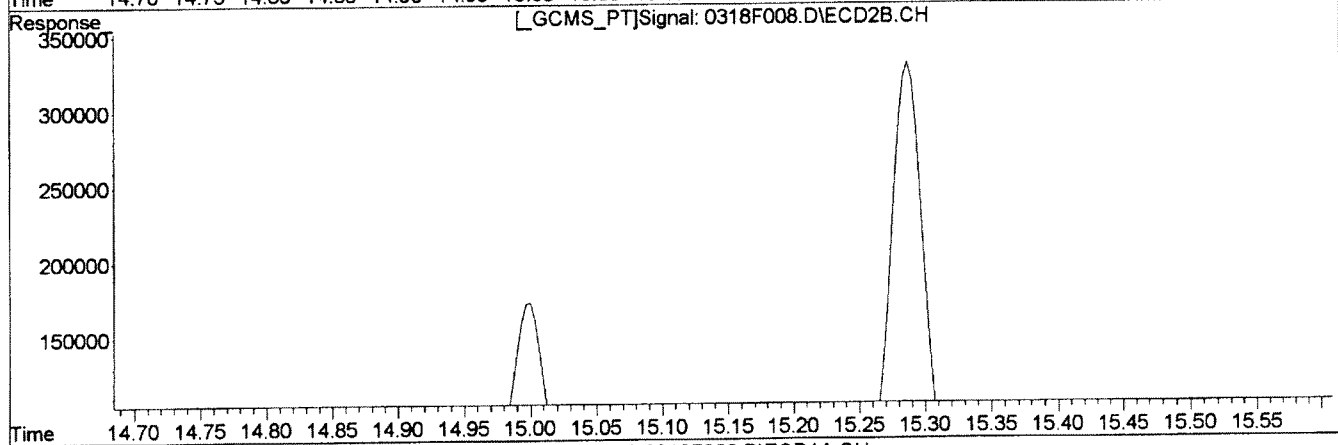
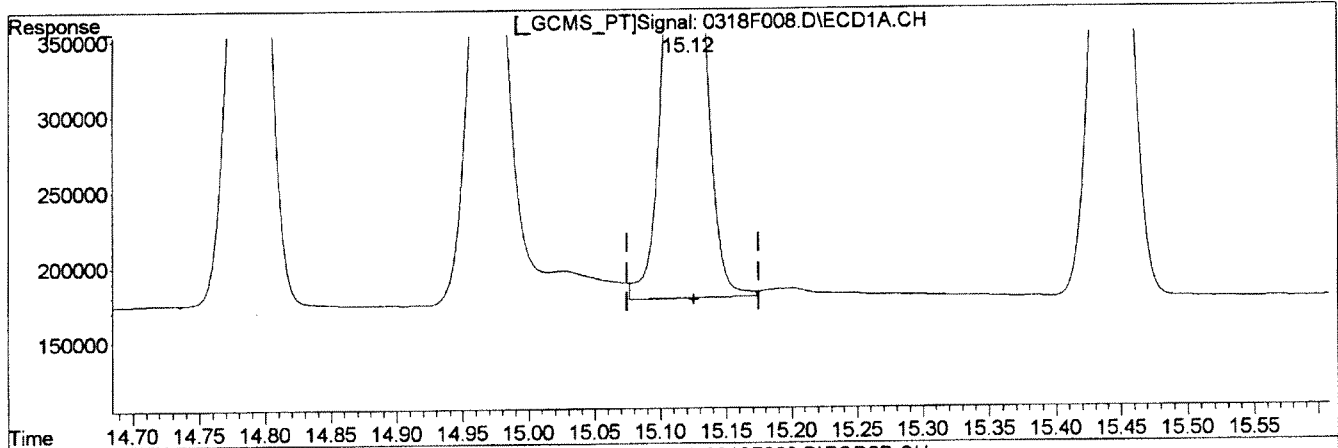
(+) = Expected Retention Time
 0318F008.D GC23-031714-8081.M

Wed Mar 19 12:25:49 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F008.D\ECD1A.CH Vial: 96
Signal #2 : J:\GC23\DATA\031814C\0318F008.D\ECD2B.CH
Acq On : 19 Mar 2014 1:41 am Operator: SMURRAY
Sample : 81/24 @ 50ppb GCPS7-80J Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:25 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:25:19 2014
Response via : Multiple Level Calibration



Signal: 0318F008.D\ECD1A.CH	
(22) 4,4'-DDT	Manual Integration:
15.12min 51.765ug/L	Before
response 850466	03/19/14
(22) 4,4'-DDT #2	
13.89min 47.105ug/L	
response 340363	

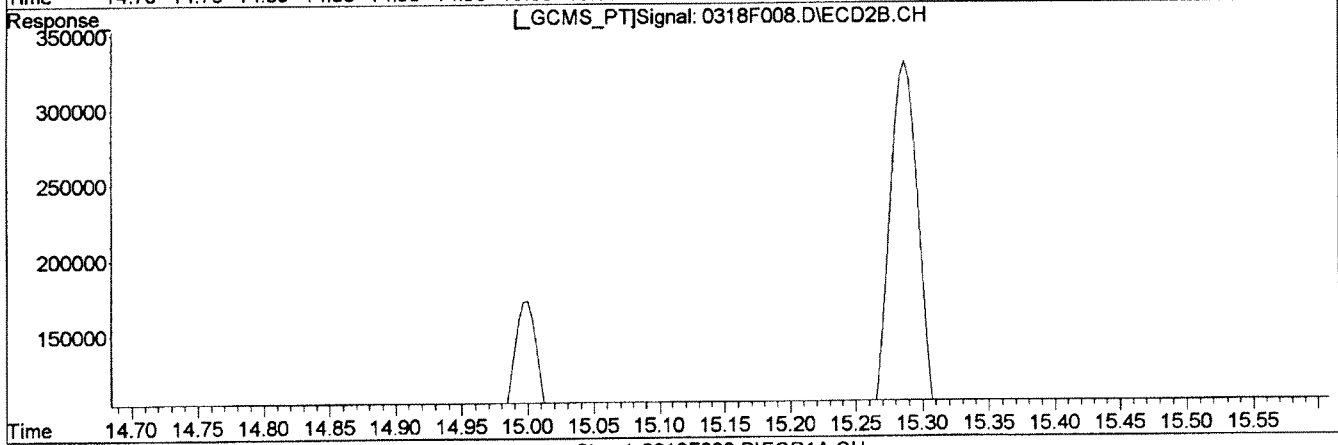
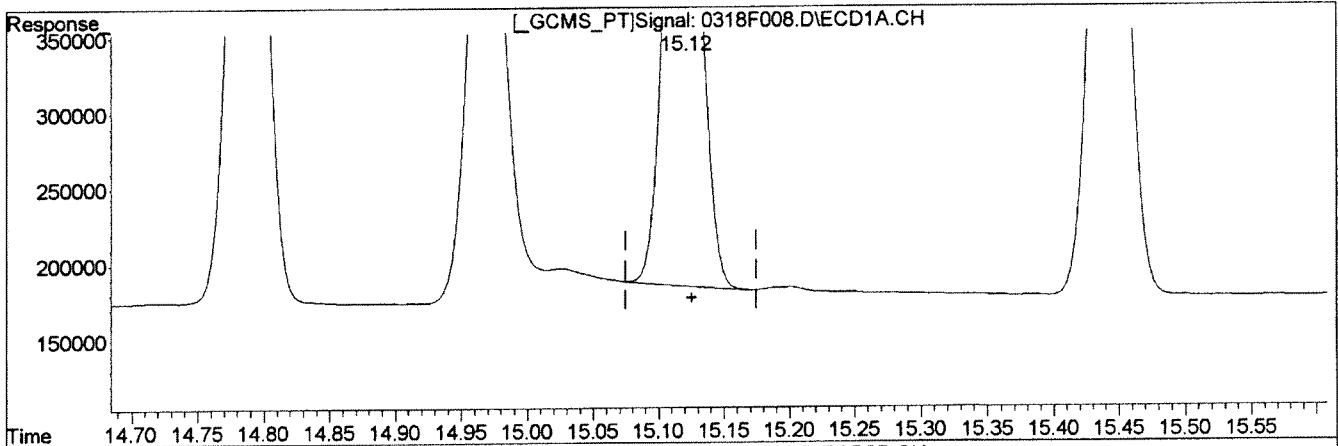
(+) = Expected Retention Time
0318F008.D GC23-031714-8081.M

Wed Mar 19 12:25:52 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F008.D\ECD1A.CH Vial: 96
Signal #2 : J:\GC23\DATA\031814C\0318F008.D\ECD2B.CH
Acq On : 19 Mar 2014 1:41 am Operator: SMURRAY
Sample : 81/24 @ 50ppb GCPS7-80J Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:25 2014 Quant Results File: GC23-031714-8081.RES


Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:25:19 2014
Response via : Multiple Level Calibration



Signal: 0318F008.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(22) 4,4'-DDT	49.503	813298
(22) 4,4'-DDT #2	47.105	340363

Manual Integration:
After
Baseline/Shoulder
03/19/14



(+) = Expected Retention Time
0318F008.D GC23-031714-8081.M

Wed Mar 19 12:25:56 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F009.D\ECD1A.CH Vial: 97
 Signal #2 : J:\GC23\DATA\031814C\0318F009.D\ECD2B.CH
 Acq On : 19 Mar 2014 2:11 am Operator: SMURRAY
 Sample : 81/24 @ 100ppb GCPS7-77H Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:26:16 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:26:10 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards							
1)	i 1-Bromo-2-nitrob	6.17	5.56	1776189	690756	100.000	100.000
System Monitoring Compounds							
2)	s Tetrachloro-m-xy	8.95	7.37	2134363	852631	104.284	93.600
28)	s Decachlorobiphen	18.67	17.19	1834949	705534	102.518	91.031
Target Compounds							
3)	alpha-BHC	9.79	8.62	2636594	1081067	95.495	98.888
4)	Hexachlorobenzen	9.95	8.39	2392303	959072	101.424	91.149
5)	beta-BHC	11.06	9.89	1011806	432587	96.968	86.262
6)	gamma-BHC (Linda	10.47	9.36	2362021	966188	93.142	96.074
7)	delta-BHC	11.57	10.43	2312968	949958	94.059	96.581
8)	Heptachlor	11.67	10.05	2310228	888037	95.691	94.839
9)	Aldrin	12.19	10.65	2409711	1019541	96.518	97.902
10)	Isodrin	12.73	11.44	1934279	810183	92.490	93.851
11)	Heptachlor Epoxi	12.92	11.71	2103499	859818	91.816	93.120
12)	gamma-Chlordane	13.44	12.08	2137698	909051	92.027	90.679
13)	Endosulfan I	13.57	12.30	1880344	781900	90.935	92.969
14)	alpha-Chlordane	13.52	12.23	2095162	877545	91.165	91.937
15)	Dieldrin	13.99	12.74	2114675	882926	95.709	93.523
16)	4,4'-DDE	13.80	12.59	2157024	911975	96.484	96.158
17)	Endrin	14.36	13.23	1799103	750258	94.028	93.194
18)	Endosulfan II	14.81	13.66	1708425	701356	89.226	89.885
19)	4,4'-DDD	14.64	13.48	1688321	686186	92.735	93.421
20)	Endrin Aldehyde	14.99	14.03	1107845	516081	81.759m	86.024
21)	Endosulfan Sulfa	15.46	14.35	1545577	644426	86.248	89.202
22)	4,4'-DDT	15.14	13.91	1587310	645073	99.042m	92.429
23)	Endrin Ketone	16.15	15.31	1926439	788856	90.322	87.937
24)	Methoxychlor	15.89	15.02	795074	307417	95.531	87.077
25)	2,4'-DDE	13.21	12.12	1062813	438400	75.218	78.856
26)	2,4'-DDD	13.95	12.89	963427	394476	74.814	74.359
27)	2,4'-DDT	14.44	13.32	1046681	431035	78.630	76.147

m3s made dropped
Boon

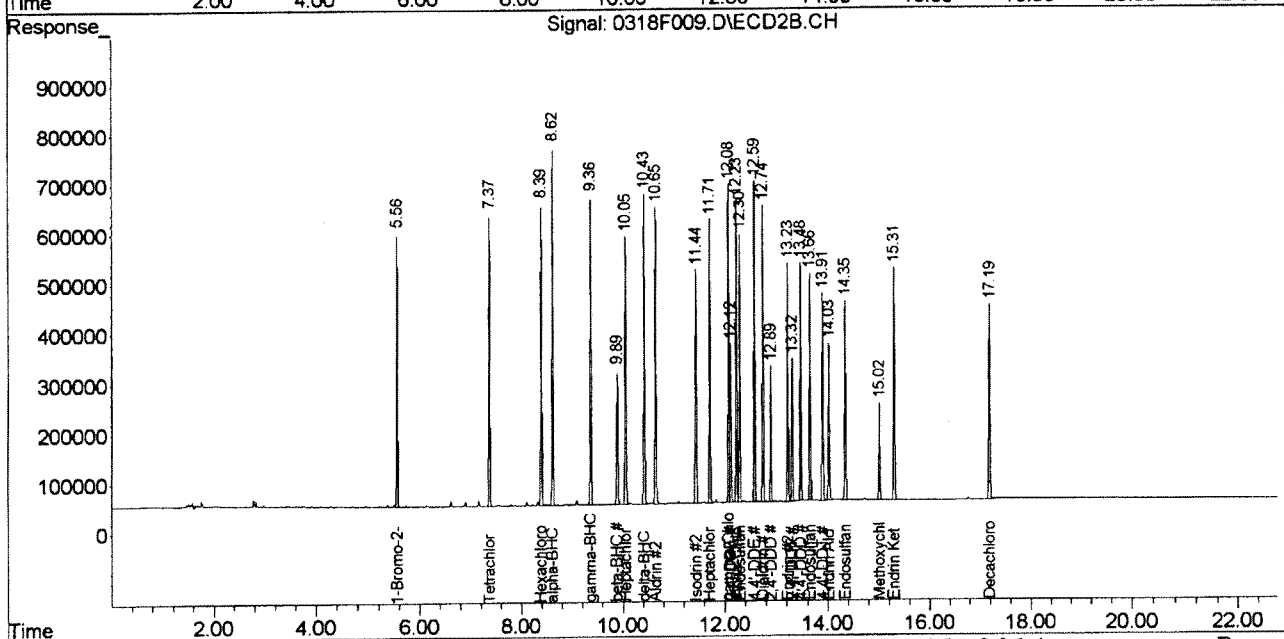
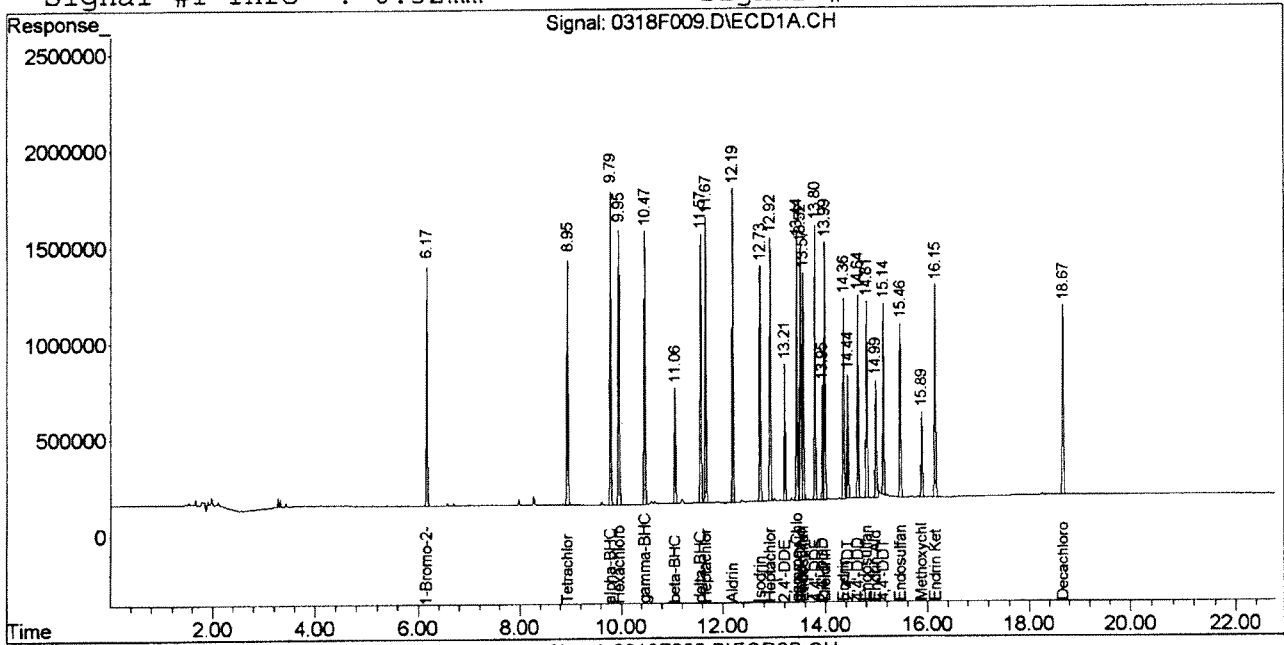
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int
 0318F009.D GC23-031714-8081.M Wed Mar 19 12:44:11 2014 Page 1

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F009.D\ECD1A.CH Vial: 97
 Signal #2 : J:\GC23\DATA\031814C\0318F009.D\ECD2B.CH
 Acq On : 19 Mar 2014 2:11 am Operator: SMURRAY
 Sample : 81/24 @ 100ppb GCPS7-77H Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:26 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:26:10 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

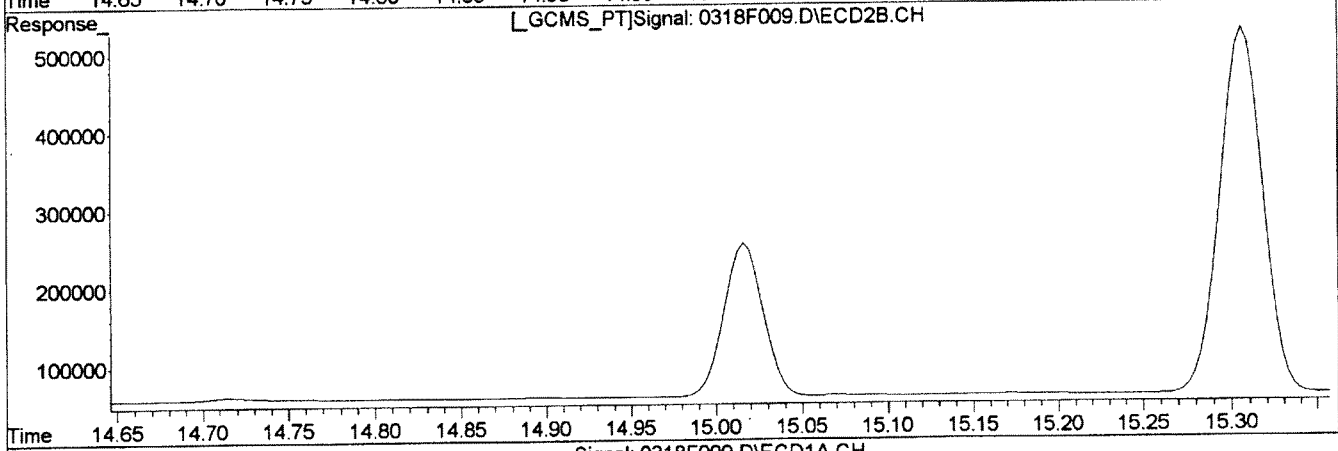
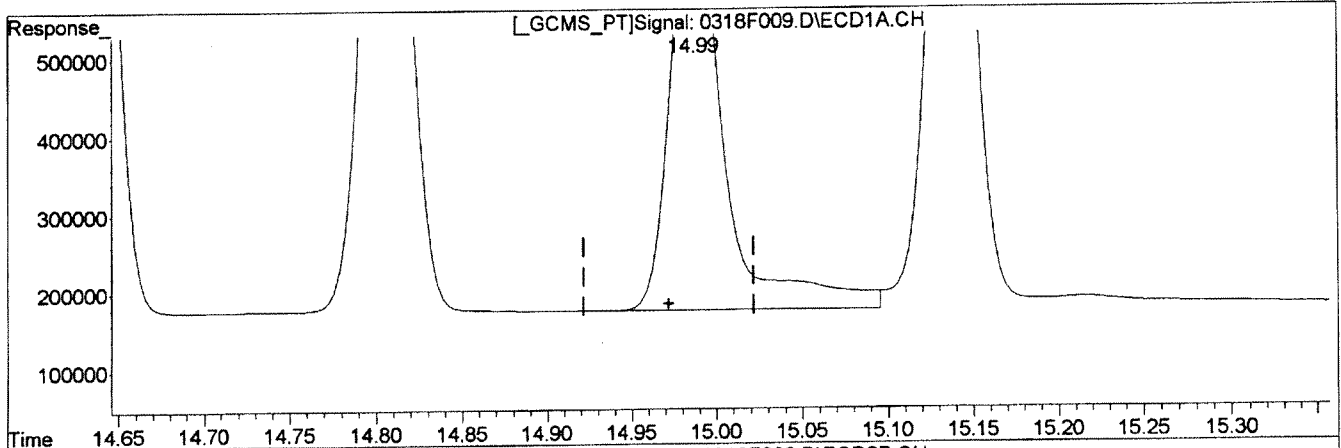
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F009.D\ECD1A.CH Vial: 97
Signal #2 : J:\GC23\DATA\031814C\0318F009.D\ECD2B.CH
Acq On : 19 Mar 2014 2:11 am Operator: SMURRAY
Sample : 81/24 @ 100ppb GCPS7-77H Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:26 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:26:10 2014
Response via : Multiple Level Calibration



Signal: 0318F009.D\ECD1A.CH

(20) Endrin Aldehyde	Manual Integration:
14.99min 90.170ug/L	Before
response 1221816	03/19/14
(20) Endrin Aldehyde #2	
14.03min 86.024ug/L	
response 516081	

[Handwritten signature]

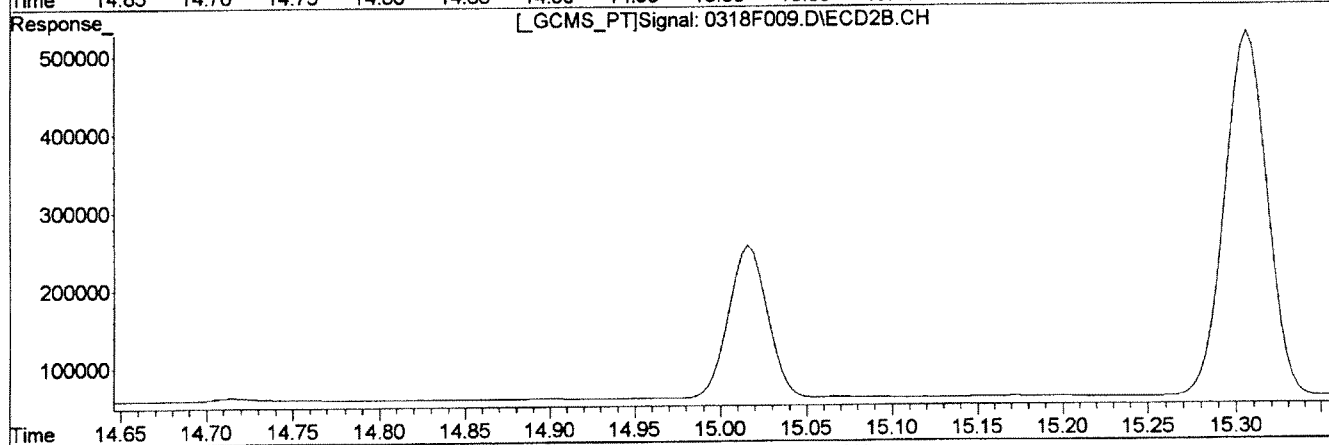
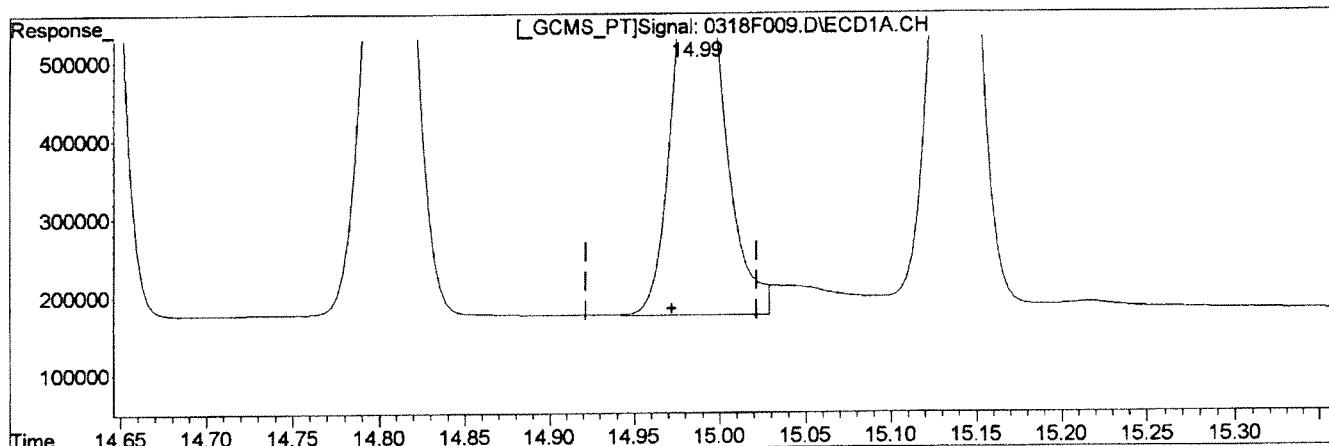
(+) = Expected Retention Time
0318F009.D GC23-031714-8081.M

Wed Mar 19 12:26:37 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F009.D\ECD1A.CH Vial: 97
 Signal #2 : J:\GC23\DATA\031814C\0318F009.D\ECD2B.CH
 Acq On : 19 Mar 2014 2:11 am Operator: SMURRAY
 Sample : 81/24 @ 100ppb GCPS7-77H Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:26 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:26:10 2014
 Response via : Multiple Level Calibration



Signal: 0318F009.D\ECD1A.CH

(20) Endrin Aldehyde
 14.99min 81.759ug/L m
 response 1107845

(20) Endrin Aldehyde #2
 14.03min 86.024ug/L
 response 516081

Manual Integration:
 After
 Baseline/Shoulder
 03/19/14

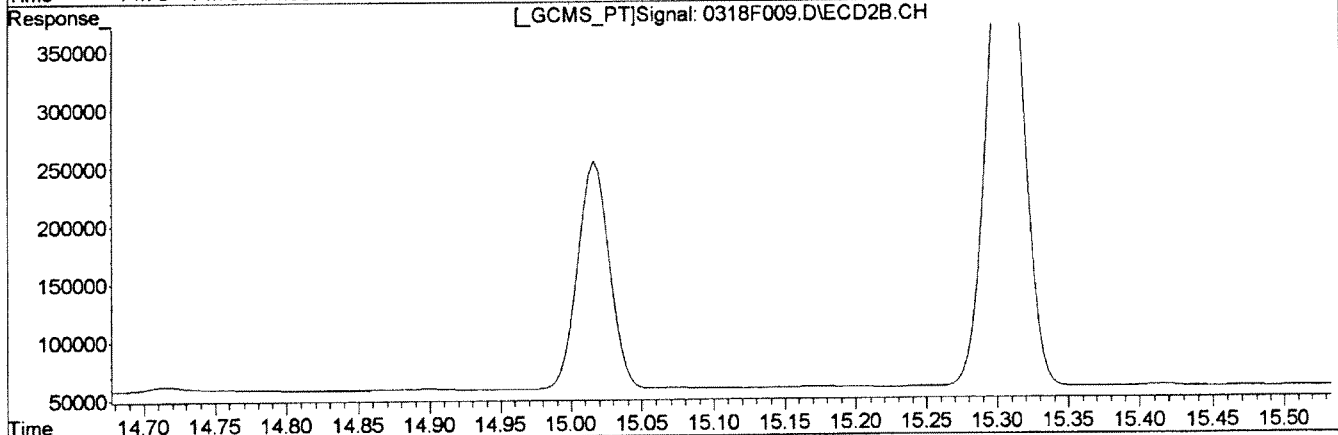
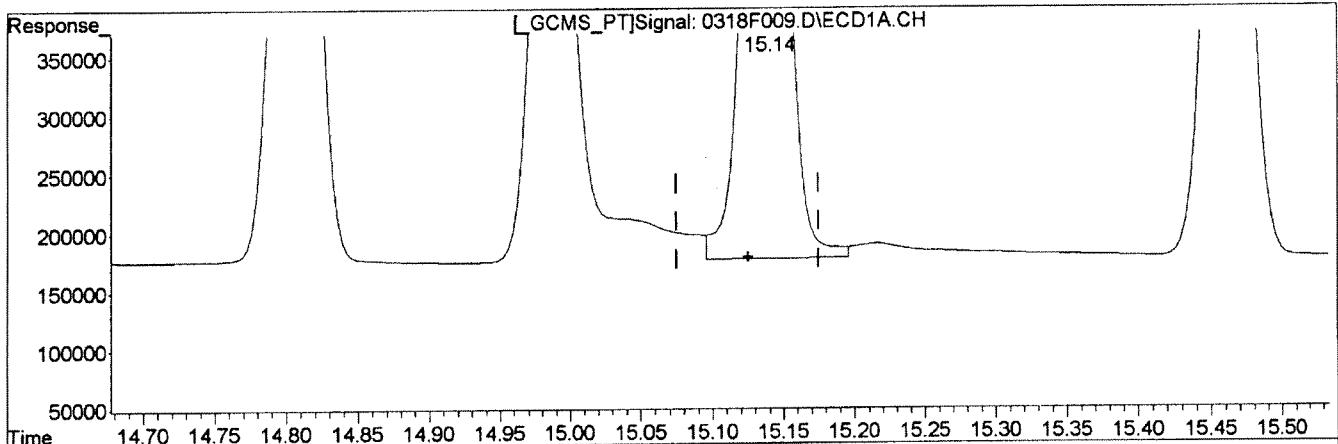
(+) = Expected Retention Time
 0318F009.D GC23-031714-8081.M

Wed Mar 19 12:26:41 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F009.D\ECD1A.CH Vial: 97
Signal #2 : J:\GC23\DATA\031814C\0318F009.D\ECD2B.CH
Acq On : 19 Mar 2014 2:11 am Operator: SMURRAY
Sample : 81/24 @ 100ppb GCPS7-77H Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:26 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:26:10 2014
Response via : Multiple Level Calibration



Signal: 0318F009.D\ECD1A.CH	
(22) 4,4'-DDT	Manual Integration:
15.14min 103.870ug/L	Before
response 1664691	03/19/14
(22) 4,4'-DDT #2	
13.91min 92.429ug/L	
response 645073	

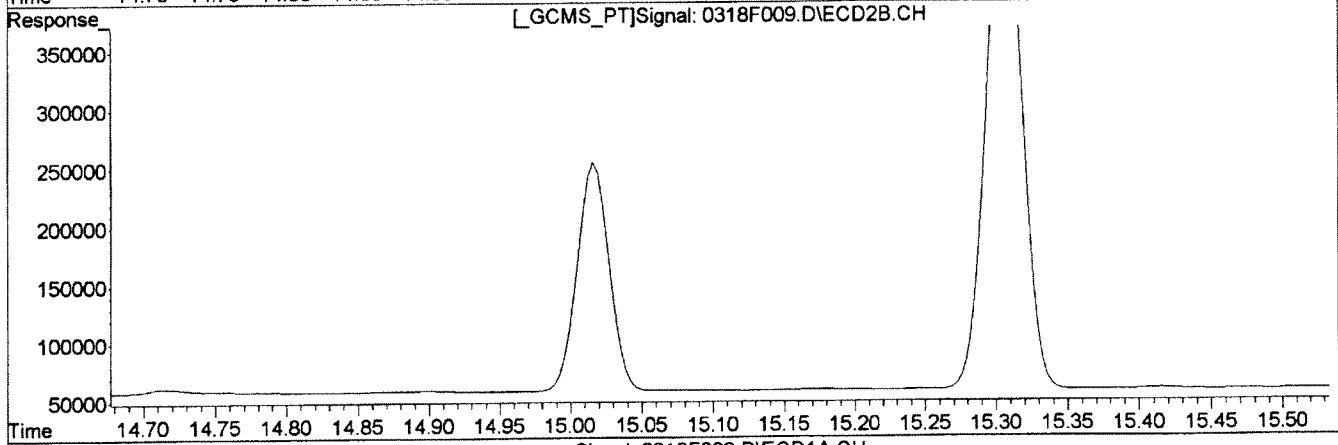
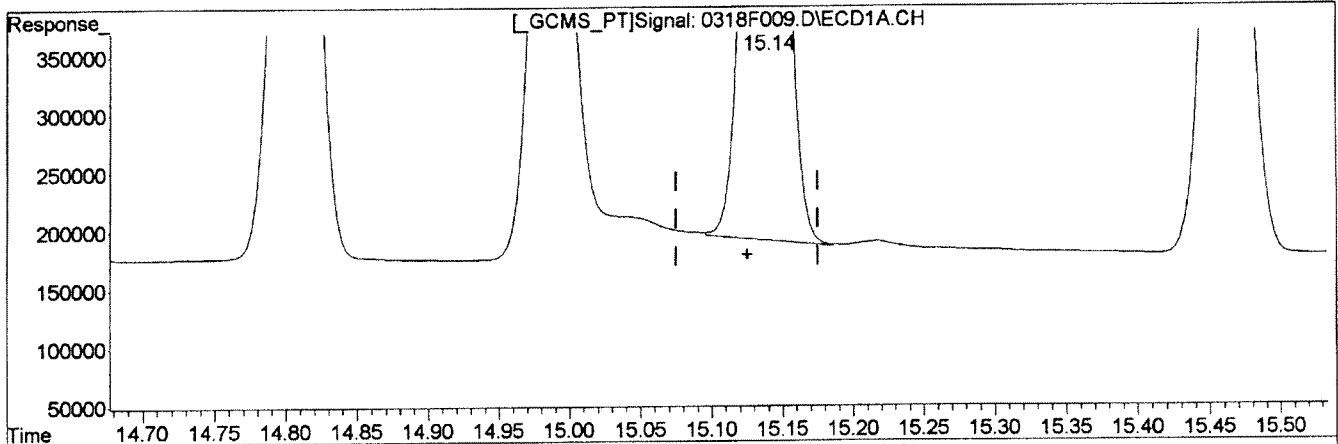
(+) = Expected Retention Time
0318F009.D GC23-031714-8081.M

Wed Mar 19 12:26:45 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F009.D\ECD1A.CH Vial: 97
Signal #2 : J:\GC23\DATA\031814C\0318F009.D\ECD2B.CH
Acq On : 19 Mar 2014 2:11 am Operator: SMURRAY
Sample : 81/24 @ 100ppb GCPS7-77H Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:26 2014 Quant Results File: GC23-031714-8081.RES

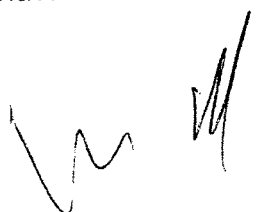
Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:26:10 2014
Response via : Multiple Level Calibration



Signal: 0318F009.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(22) 4,4'-DDT	99.042	1587310
(22) 4,4'-DDT #2	92.429	645073

Manual Integration:
After
Baseline/Shoulder
03/19/14



(+) = Expected Retention Time
0318F009.D GC23-031714-8081.M

Wed Mar 19 12:26:48 2014

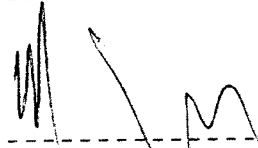
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F010.D\ECD1A.CH Vial: 98
 Signal #2 : J:\GC23\DATA\031814C\0318F010.D\ECD2B.CH
 Acq On : 19 Mar 2014 2:40 am Operator: SMURRAY
 Sample : 81/24 @ 200ppb GCPS7-77I Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:27:06 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:27:02 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.16	5.55	1833100	681231	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.93	7.36	4352077	1691842	206.270	188.727
28) s Decachlorobiphen	18.65	17.17	3507561	1355615	203.135	177.988
Target Compounds						
3) alpha-BHC	9.78	8.60	5819242	2290105	204.655	212.562
4) Hexachlorobenzen	9.94	8.38	4810578	1891394	200.804	182.504
5) beta-BHC	11.05	9.88	2164639	912371	198.098	184.349
6) gamma-BHC (Linda	10.45	9.35	5191143	2044988	198.540	205.929
7) delta-BHC	11.55	10.41	5172242	2044626	203.832	210.196
8) Heptachlor	11.65	10.04	4857306	1772059	193.177	191.156
9) Aldrin	12.18	10.63	4996740	2054765	193.649	200.259
10) Isodrin	12.71	11.43	3939554	1613792	182.323	189.633
11) Heptachlor Epoxi	12.91	11.70	4407563	1752551	185.689	192.273
12) gamma-Chlordane	13.43	12.07	4482730	1832246	186.461	188.310
13) Endosulfan I	13.56	12.29	3879084	1573638	180.977	190.235
14) alpha-Chlordane	13.51	12.22	4320438	1767883	181.870	188.599
15) Dieldrin	13.98	12.73	4464566	1803970	194.941	193.776
16) 4,4'-DDE	13.78	12.58	4522816	1851797	195.685	199.160
17) Endrin	14.35	13.21	3816228	1521855	191.879	190.682
18) Endosulfan II	14.79	13.65	3642755	1457212	183.583	189.873
19) 4,4'-DDD	14.62	13.47	3682595	1433360	195.502	198.357
20) Endrin Aldehyde	14.98	14.01	2524849	1128225	181.184	190.732m
21) Endosulfan Sulfa	15.45	14.34	3450808	1400746	185.244	196.474
22) 4,4'-DDT	15.13	13.89	3464456	1303693	207.367m	189.582
23) Endrin Ketone	16.14	15.29	4169848	1653425	188.366	187.486
24) Methoxychlor	15.88	15.00	1706656	615010	194.656	176.117
25) 2,4'-DDE	13.20	12.10	2707966	1124938	185.400	201.895
26) 2,4'-DDD	13.93	12.88	2409301	958933	180.698	183.825
27) 2,4'-DDT	14.43	13.31	2761383	1055217	199.557	189.513

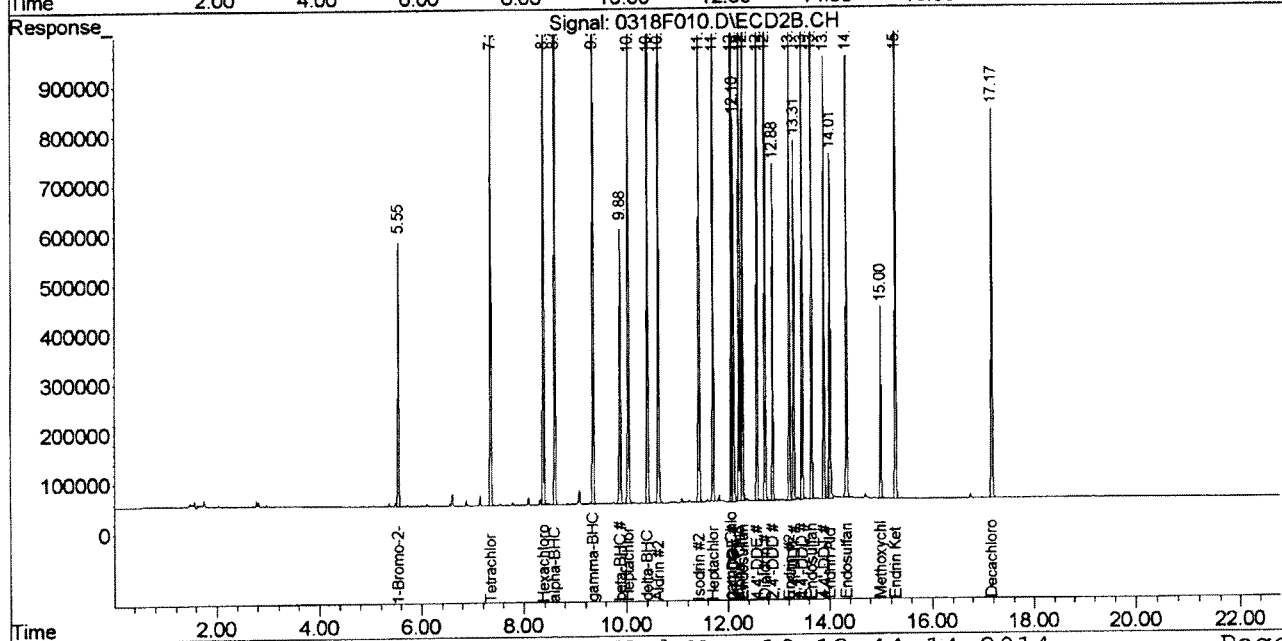
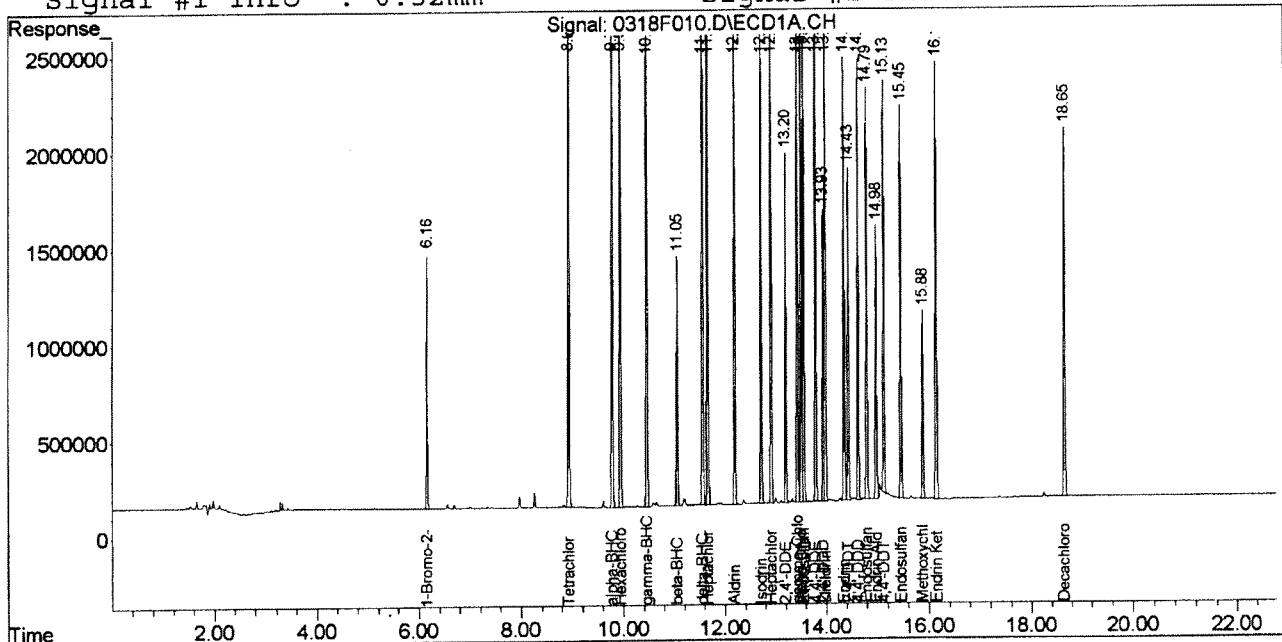


Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F010.D\ECD1A.CH Vial: 98
Signal #2 : J:\GC23\DATA\031814C\0318F010.D\ECD2B.CH
Acq On : 19 Mar 2014 2:40 am Operator: SMURRAY
Sample : 81/24 @ 200ppb GCPS7-77I Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:27 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:27:02 2014
Response via : Multiple Level Calibration
DataAcq Meth : PEST1UL.M

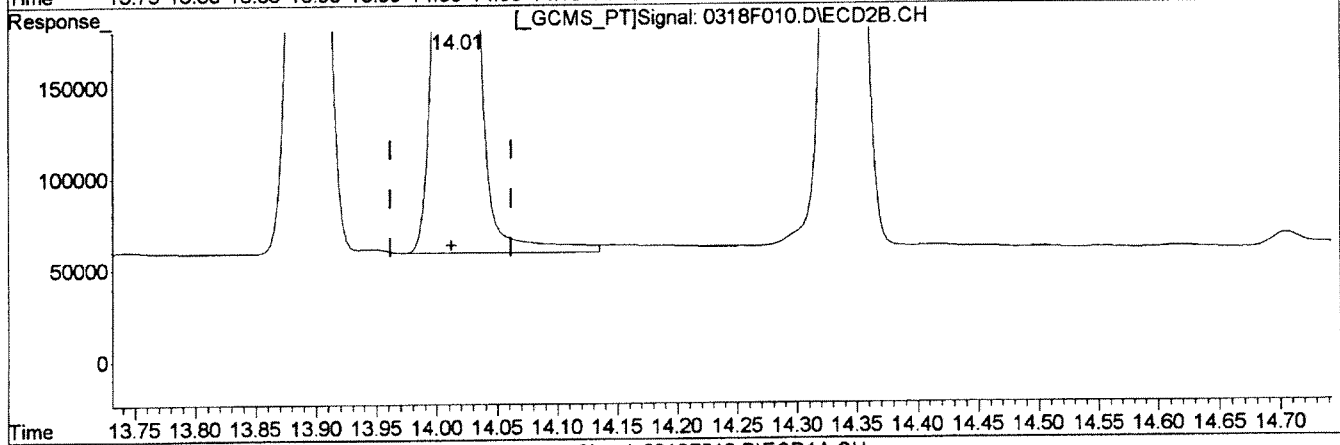
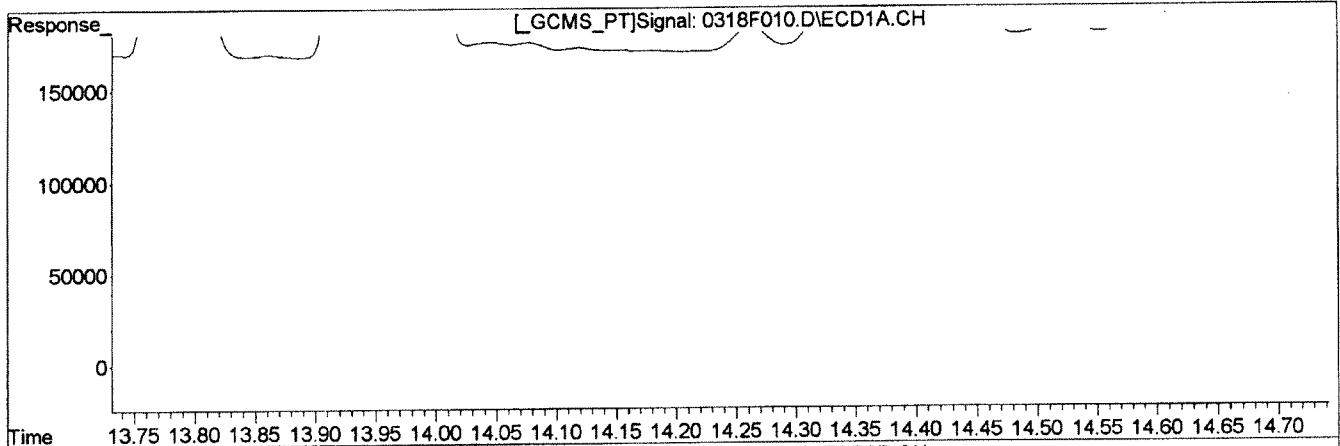
Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F010.D\ECD1A.CH Vial: 98
Signal #2 : J:\GC23\DATA\031814C\0318F010.D\ECD2B.CH
Acq On : 19 Mar 2014 2:40 am Operator: SMURRAY
Sample : 81/24 @ 200ppb GCPS7-77I Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:27 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:27:02 2014
Response via : Multiple Level Calibration



Signal: 0318F010.D\ECD1A.CH		Manual Integration:
(20) Endrin Aldehyde		Before
14.98min 181.184ug/L		
response 2524849		03/19/14
(20) Endrin Aldehyde #2		
14.01min 193.716ug/L		
response 1145876		

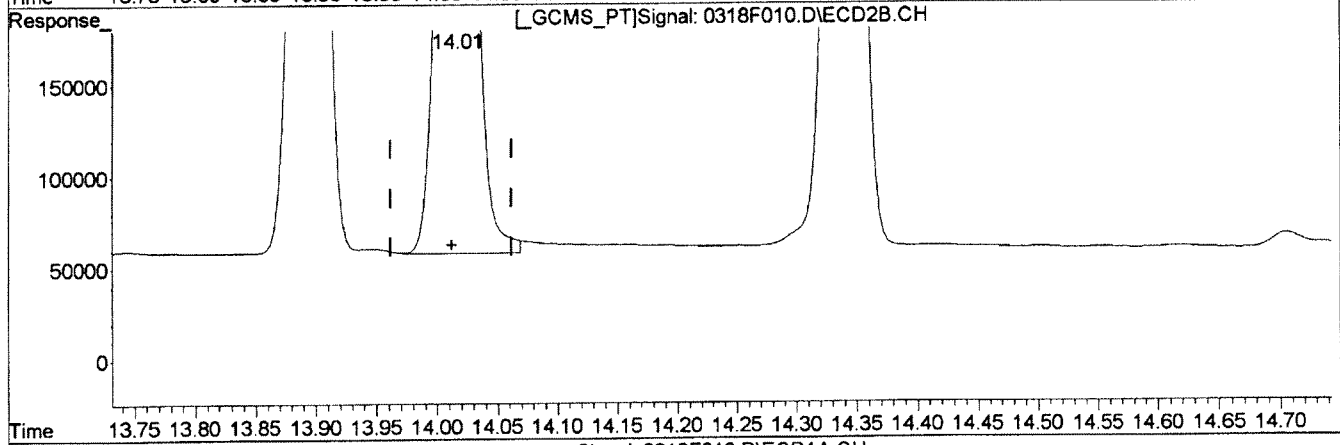
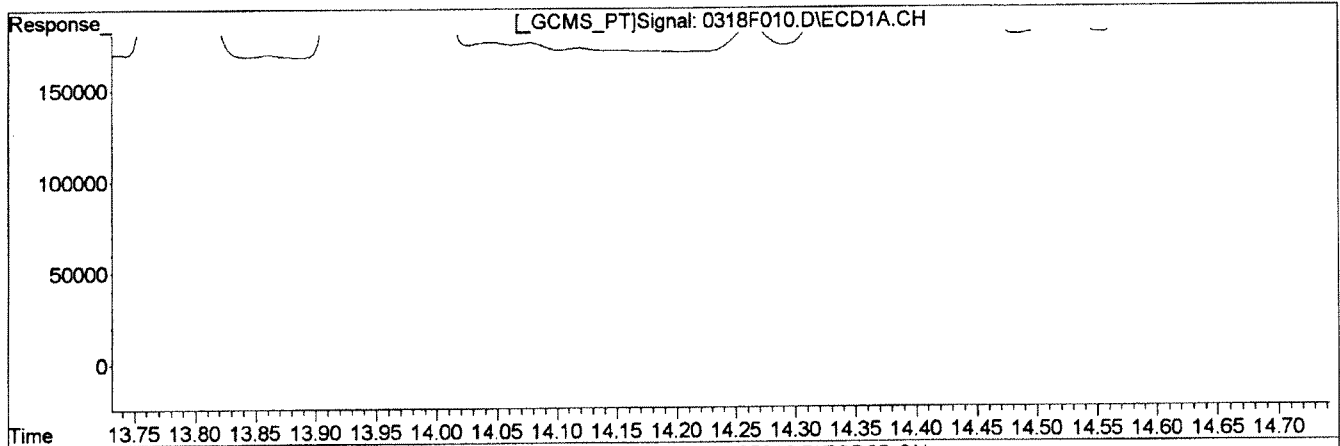
(+) = Expected Retention Time
0318F010.D GC23-031714-8081.M

Wed Mar 19 12:27:31 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F010.D\ECD1A.CH Vial: 98
Signal #2 : J:\GC23\DATA\031814C\0318F010.D\ECD2B.CH
Acq On : 19 Mar 2014 2:40 am Operator: SMURRAY
Sample : 81/24 @ 200ppb GCPS7-77I Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:27 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:27:02 2014
Response via : Multiple Level Calibration



Signal: 0318F010.D\ECD1A.CH	
(20) Endrin Aldehyde	Manual Integration:
14.98min 181.184ug/L	After
response 2524849	Baseline/Shoulder
	03/19/14
(20) Endrin Aldehyde #2	
14.01min 190.732ug/L m	
response 1128225	

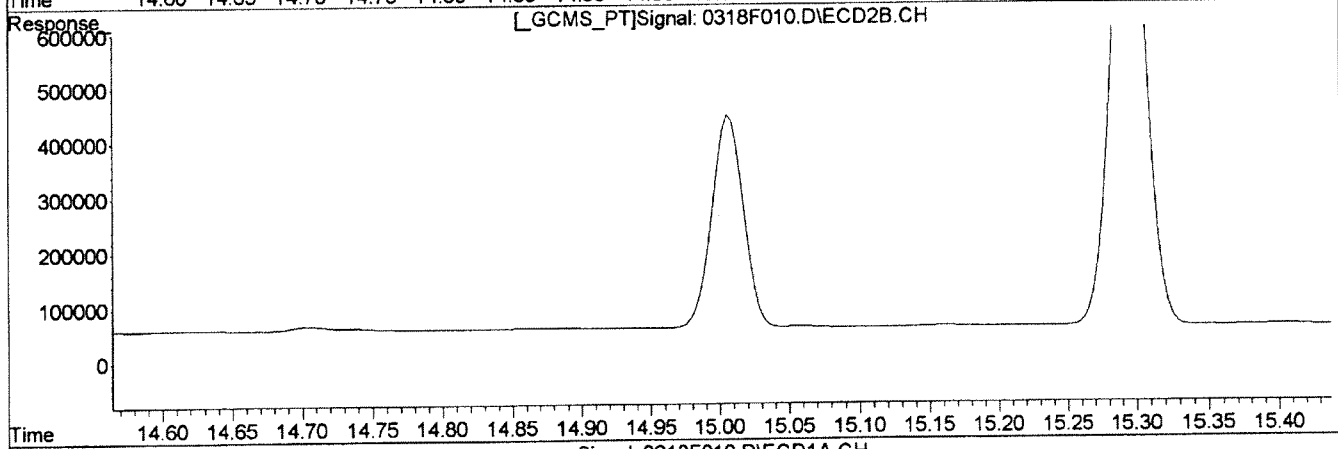
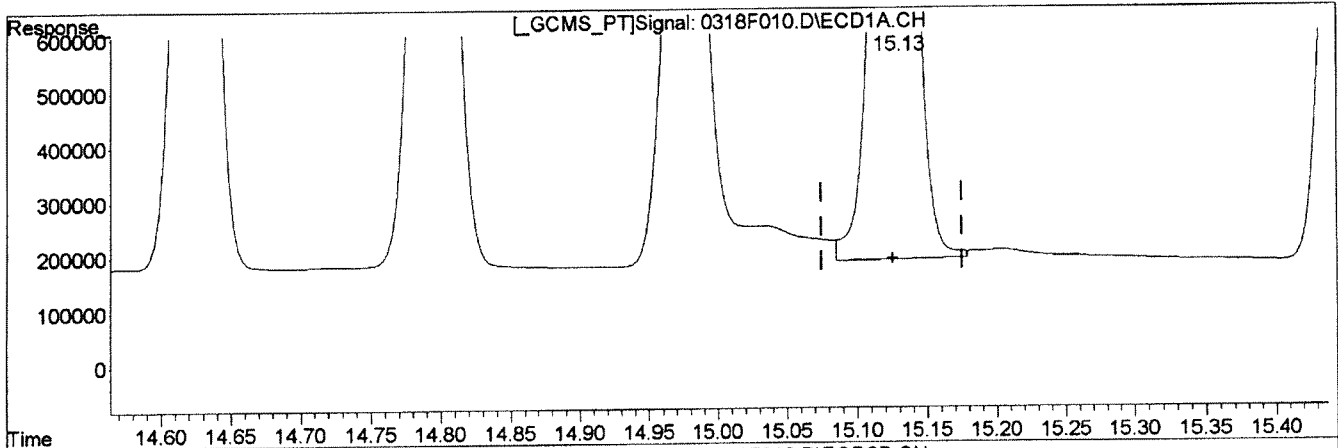
(+) = Expected Retention Time
0318F010.D GC23-031714-8081.M

Wed Mar 19 12:27:36 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F010.D\ECD1A.CH Vial: 98
Signal #2 : J:\GC23\DATA\031814C\0318F010.D\ECD2B.CH
Acq On : 19 Mar 2014 2:40 am Operator: SMURRAY
Sample : 81/24 @ 200ppb GCPS7-77I Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 12:27 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 12:27:02 2014
Response via : Multiple Level Calibration



Signal: 0318F010.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(22) 4,4'-DDT	214.581	3584980
(22) 4,4'-DDT #2	189.582	1303693

Manual Integration:
Before
03/19/14

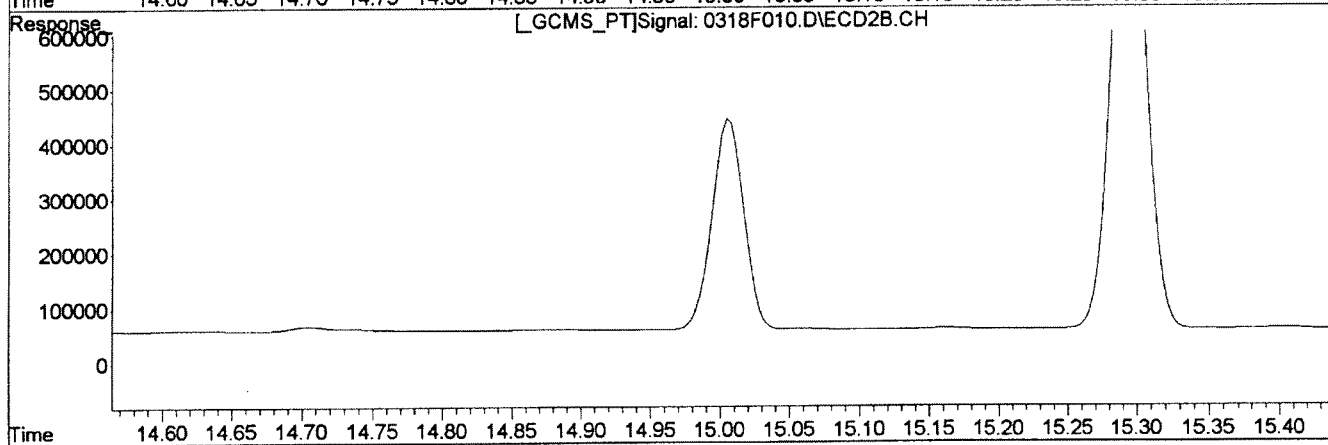
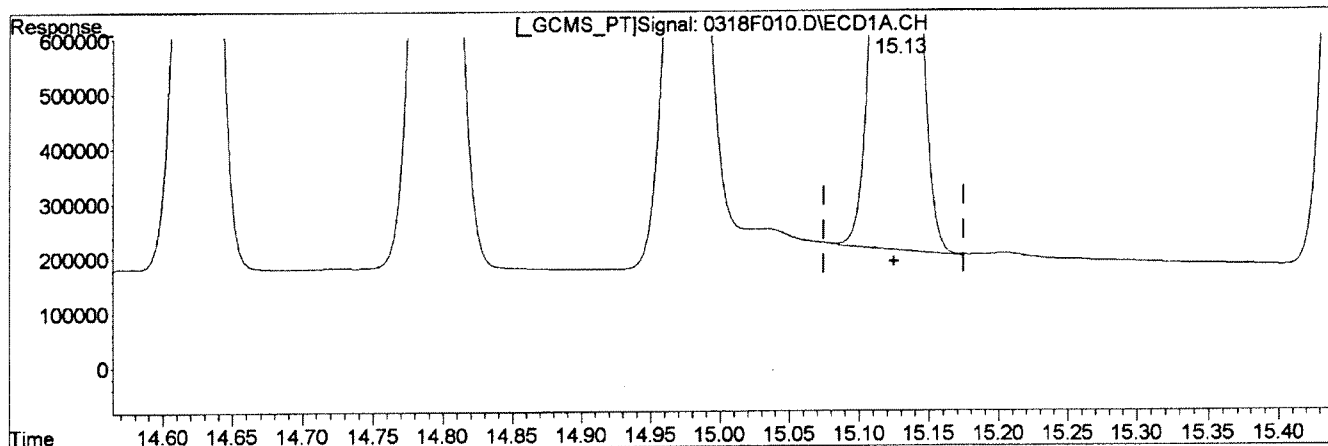
(+) = Expected Retention Time
0318F010.D GC23-031714-8081.M

Wed Mar 19 12:27:39 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F010.D\ECD1A.CH Vial: 98
 Signal #2 : J:\GC23\DATA\031814C\0318F010.D\ECD2B.CH
 Acq On : 19 Mar 2014 2:40 am Operator: SMURRAY
 Sample : 81/24 @ 200ppb GCPS7-77I Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 12:27 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 12:27:02 2014
 Response via : Multiple Level Calibration



Signal: 0318F010.D\ECD1A.CH		Manual Integration:
(22) 4,4'-DDT		After
15.13min 207.367ug/L m		Baseline/Shoulder
response 3464456		03/19/14
(22) 4,4'-DDT #2		
13.89min 189.582ug/L		
response 1303693		

(+) = Expected Retention Time
 0318F010.D GC23-031714-8081.M Wed Mar 19 12:27:42 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F011.D\ECD1A.CH Vial: 99
 Signal #2 : J:\GC23\DATA\031814C\0318F011.D\ECD2B.CH
 Acq On : 19 Mar 2014 3:10 am Operator: SMURRAY
 Sample : 8081 @ 40ppb GCPS7-79I Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 19:20:20 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 19:17:42 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.16	5.55	1566319	587102	100.000	100.000

System Monitoring Compounds

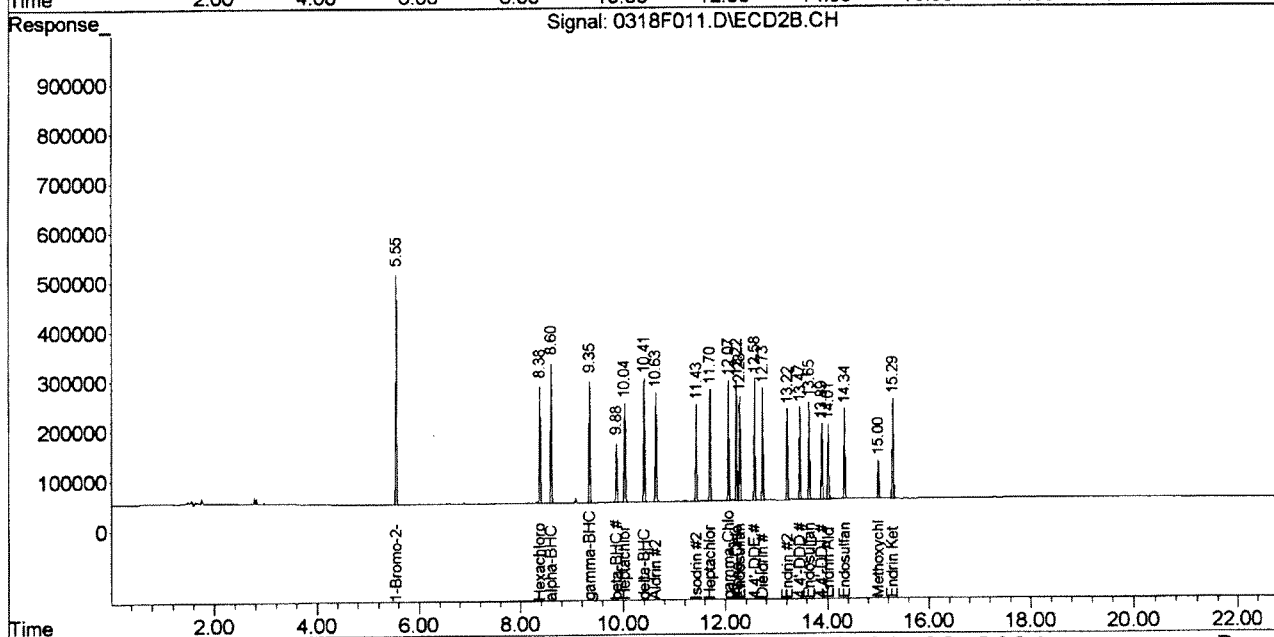
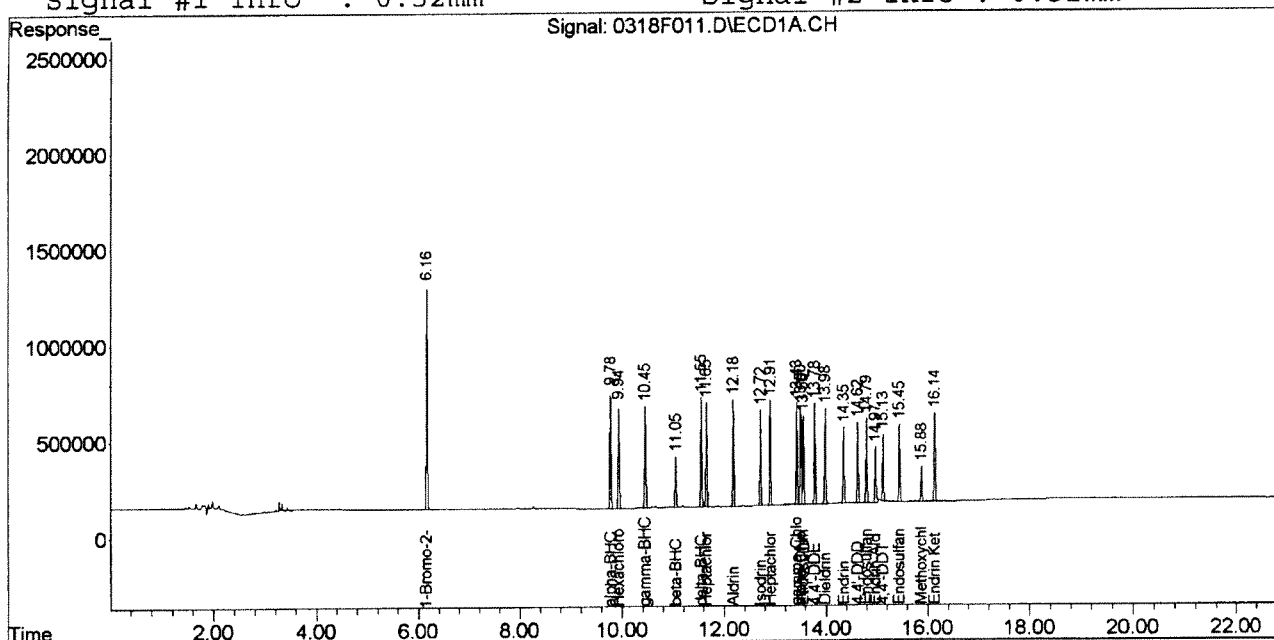
Target Compounds							
3)	alpha-BHC	9.78	8.60	999790	418125	41.379	44.796
4)	Hexachlorobenzen	9.94	8.38	921909	369731	42.852	41.258
5)	beta-BHC	11.05	9.88	461385	194484	46.137	45.281
6)	gamma-BHC (Linda	10.45	9.35	929488	383257	41.788	44.488
7)	delta-BHC	11.55	10.41	932733	388582	43.150	45.937
8)	Heptachlor	11.65	10.04	866249	334377	40.118	41.576
9)	Aldrin	12.18	10.63	853373	372870	38.776	41.949
10)	Isodrin	12.72	11.43	790431	334311	42.921	45.337
11)	Heptachlor Epoxi	12.91	11.70	837992	343580	41.264	43.466
12)	gamma-Chlordane	13.43	12.07	832484	349231	40.533	42.293
13)	Endosulfan I	13.56	12.28	758931	317896	41.444	44.482
14)	alpha-Chlordane	13.50	12.22	823818	345624	40.658	42.729
15)	Dieldrin	13.98	12.73	827485	342102	42.186	42.437
16)	4,4'-DDE	13.78	12.58	812597	350465	41.205	43.800
17)	Endrin	14.35	13.22	687202	288550	40.348	41.612
18)	Endosulfan II	14.79	13.65	734325	299301	43.368	45.119
19)	4,4'-DDD	14.62	13.47	663981	269879	41.238	43.202
20)	Endrin Aldehyde	14.97	14.01	537814	243950	48.430m	47.689
21)	Endosulfan Sulfa	15.45	14.34	698242	288615	46.554	46.663
22)	4,4'-DDT	15.13	13.89	562264	230749	39.277m	38.998
23)	Endrin Ketone	16.14	15.29	807944	336280	42.691	44.115
24)	Methoxychlor	15.88	15.00	320121	124747	42.147	41.290

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F011.D\ECD1A.CH Vial: 99
 Signal #2 : J:\GC23\DATA\031814C\0318F011.D\ECD2B.CH
 Acq On : 19 Mar 2014 3:10 am Operator: SMURRAY
 Sample : 8081 @ 40ppb GCPS7-79I Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 19:20 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 19:17:42 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

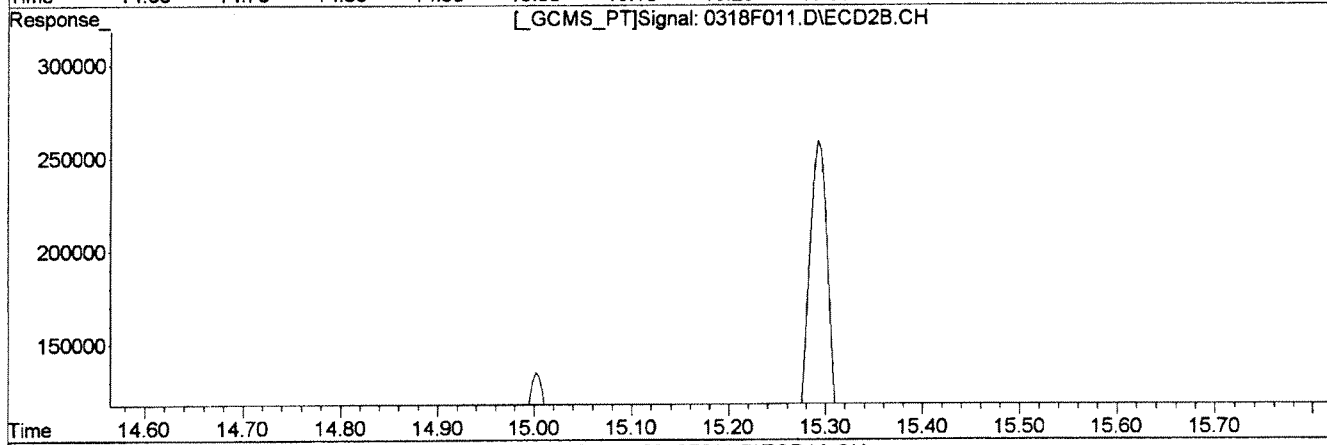
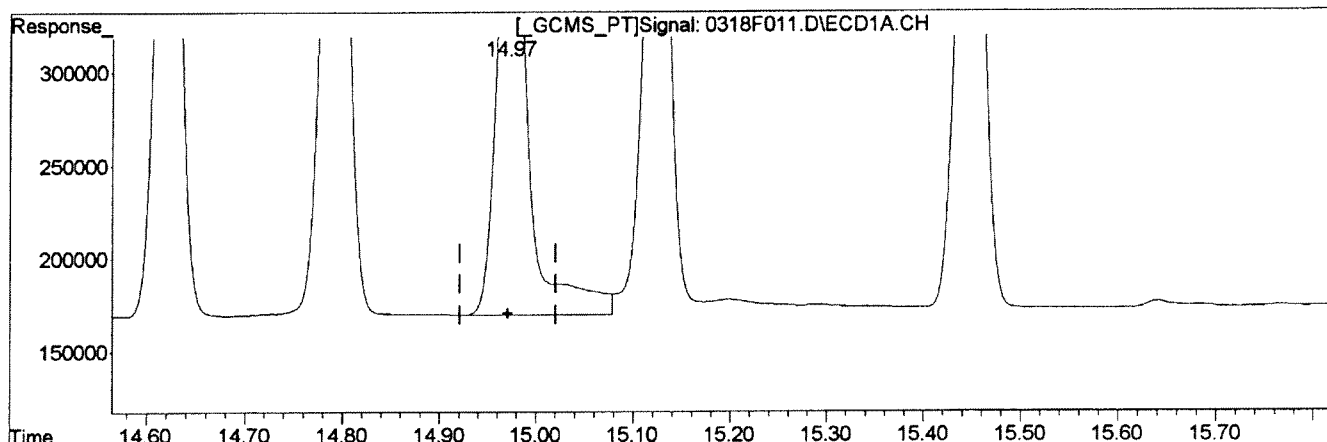
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F011.D\ECD1A.CH Vial: 99
 Signal #2 : J:\GC23\DATA\031814C\0318F011.D\ECD2B.CH
 Acq On : 19 Mar 2014 3:10 am Operator: SMURRAY
 Sample : 8081 @ 40ppb GCPS7-79I Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 19:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 19:17:42 2014
 Response via : Multiple Level Calibration



Signal: 0318F011.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Notes
14.97	52.826	586629	(20) Endrin Aldehyde
14.01	47.689	243950	(20) Endrin Aldehyde #2

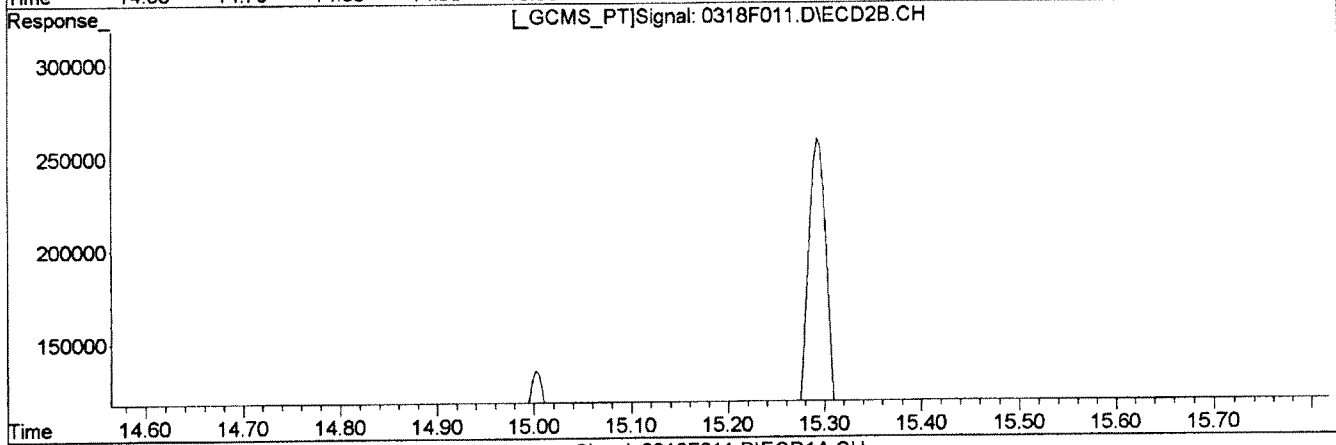
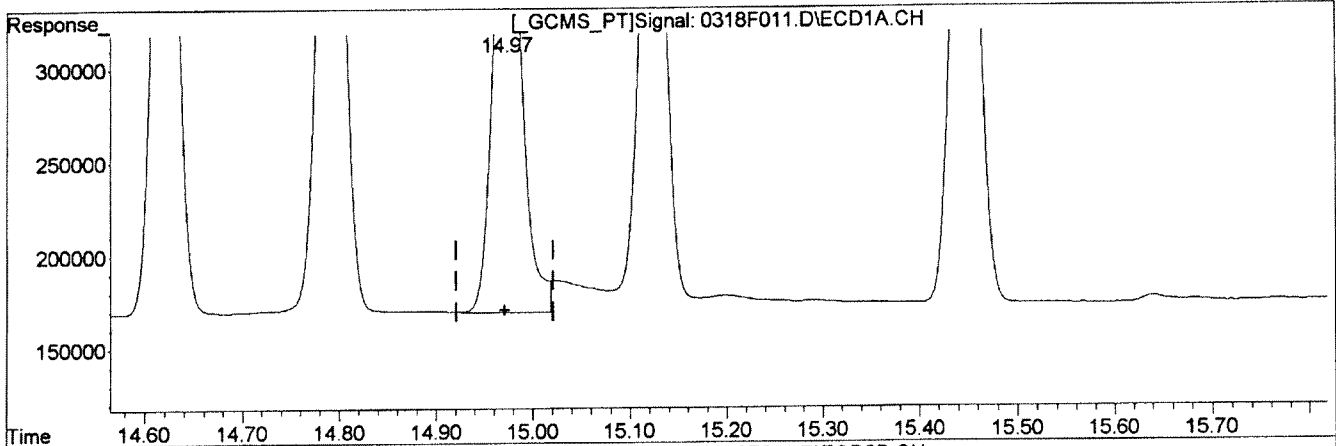
Manual Integration: Before 03/19/14

(+) = Expected Retention Time
 0318F011.D GC23-031714-8081.M Wed Mar 19 19:20:42 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F011.D\ECD1A.CH Vial: 99
Signal #2 : J:\GC23\DATA\031814C\0318F011.D\ECD2B.CH
Acq On : 19 Mar 2014 3:10 am Operator: SMURRAY
Sample : 8081 @ 40ppb GCPS7-79I Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 19:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 19:17:42 2014
Response via : Multiple Level Calibration



Signal: 0318F011.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Notes
(20) Endrin Aldehyde			Manual Integration:
14.97min	48.430ug/L	537814	After
			Baseline/Shoulder
			03/19/14
(20) Endrin Aldehyde #2			
14.01min	47.689ug/L	243950	

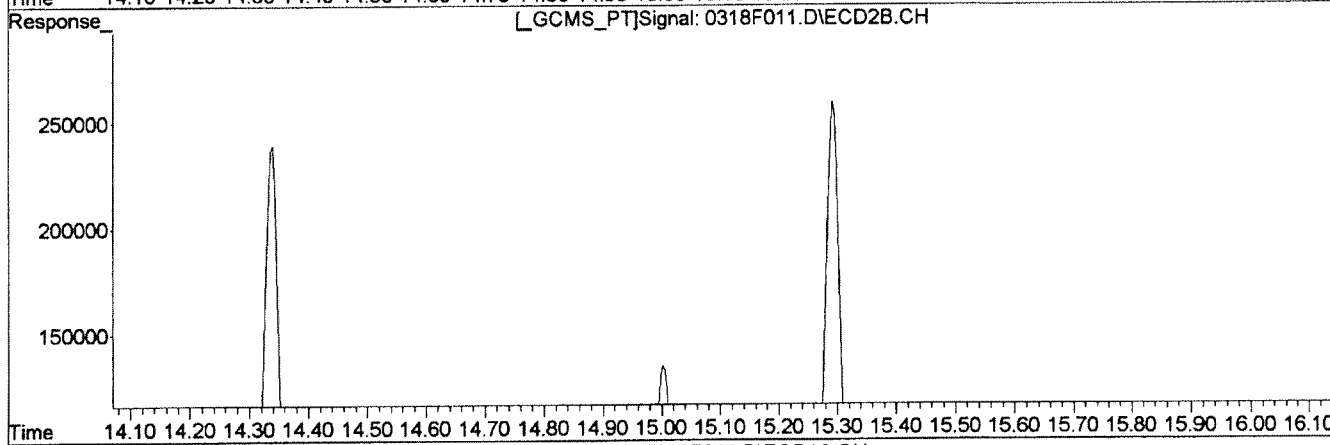
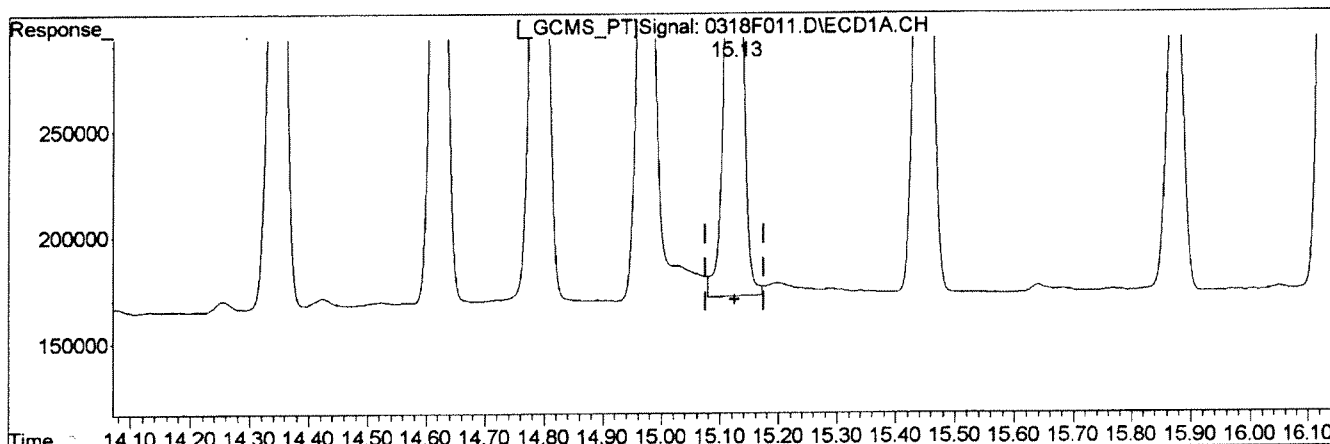
(+) = Expected Retention Time
0318F011.D GC23-031714-8081.M

Wed Mar 19 19:20:50 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F011.D\ECD1A.CH Vial: 99
Signal #2 : J:\GC23\DATA\031814C\0318F011.D\ECD2B.CH
Acq On : 19 Mar 2014 3:10 am Operator: SMURRAY
Sample : 8081 @ 40ppb GCPS7-79I Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 19:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 19:17:42 2014
Response via : Multiple Level Calibration



Signal: 0318F011.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(22) 4,4'-DDT	41.819	598645
(22) 4,4'-DDT #2	38.998	230749

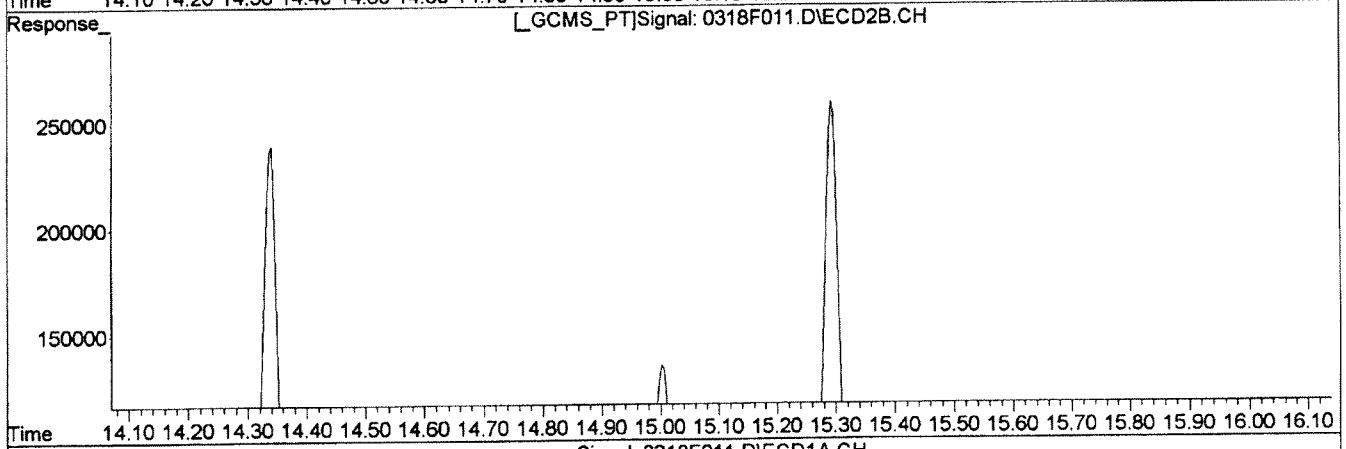
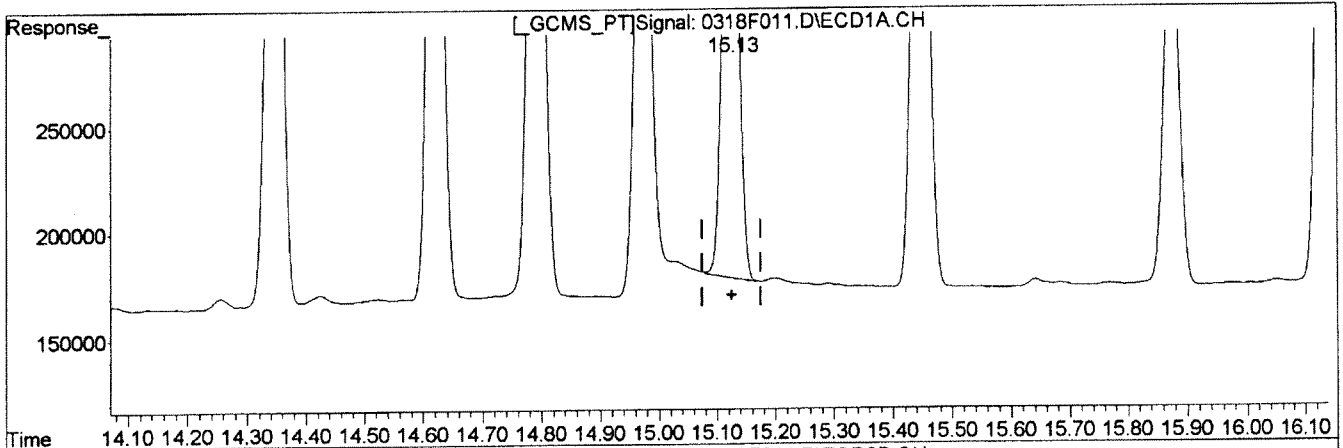
Manual Integration:
Before
03/19/14

(+) = Expected Retention Time
0318F011.D GC23-031714-8081.M Wed Mar 19 19:20:53 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031814C\0318F011.D\ECD1A.CH Vial: 99
Signal #2 : J:\GC23\DATA\031814C\0318F011.D\ECD2B.CH
Acq On : 19 Mar 2014 3:10 am Operator: SMURRAY
Sample : 8081 @ 40ppb GCPS7-79I Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 19:20 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 19:17:42 2014
Response via : Multiple Level Calibration



Signal: 0318F011.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(22) 4,4'-DDT		
15.13min	39.277ug/L	562264
(22) 4,4'-DDT #2		
13.89min	38.998ug/L	230749

Manual Integration:
After
Baseline/Shoulder
03/19/14

(+) = Expected Retention Time
0318F011.D GC23-031714-8081.M

Wed Mar 19 19:20:57 2014

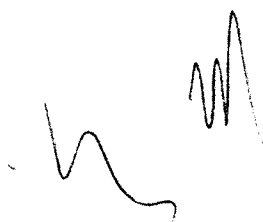
Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F012.D\ECD1A.CH Vial: 100
 Signal #2 : J:\GC23\DATA\031814C\0318F012.D\ECD2B.CH
 Acq On : 19 Mar 2014 3:39 am Operator: SMURRAY
 Sample : 2,4'S @ 40ppb GCPS7-79K Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 19:21:16 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 19:17:42 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.16	5.56	1718589	643576	100.000	100.000
System Monitoring Compounds						
Target Compounds						
25) 2,4'-DDE	13.20	12.11	589617	250762	41.056	44.078
26) 2,4'-DDD	13.94	12.88	522300	213938	39.948	41.278
27) 2,4'-DDT	14.44	13.31	511350	206439	37.545	37.495

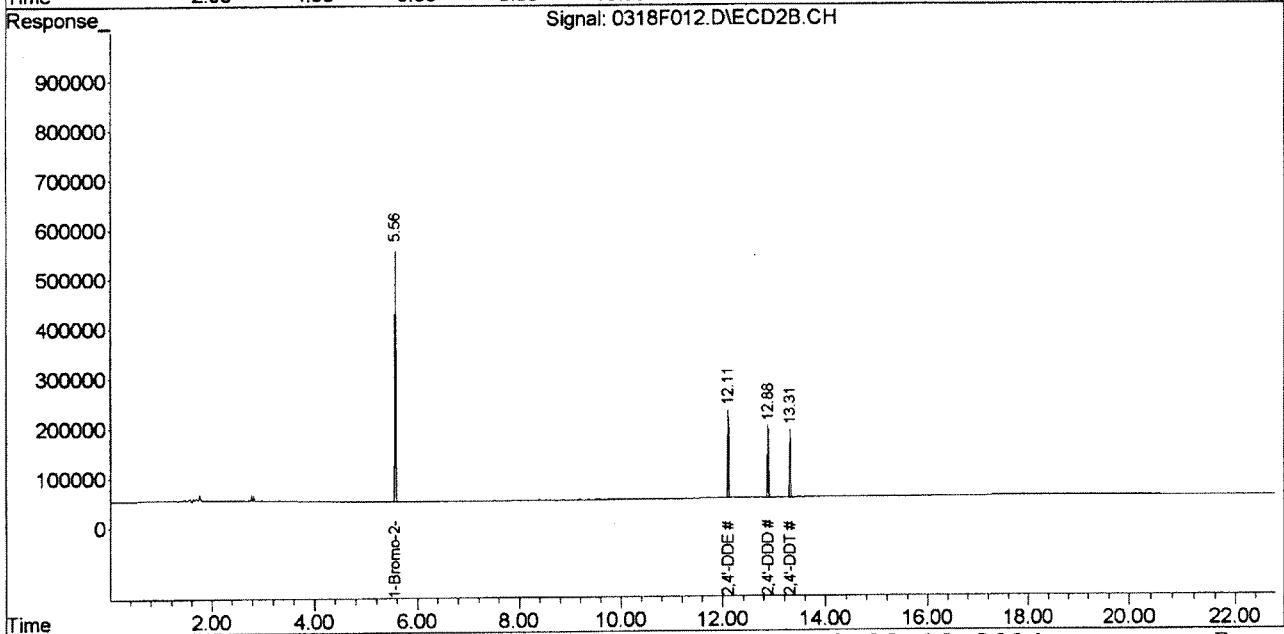
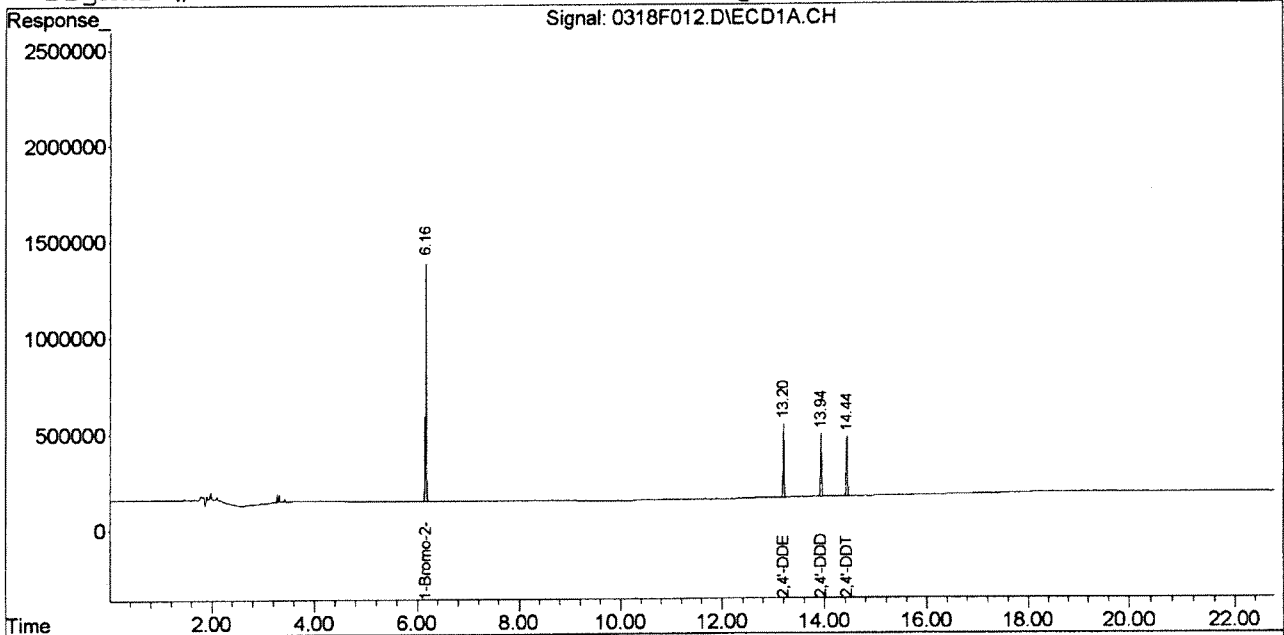


Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031814C\0318F012.D\ECD1A.CH Vial: 100
Signal #2 : J:\GC23\DATA\031814C\0318F012.D\ECD2B.CH
Acq On : 19 Mar 2014 3:39 am Operator: SMURRAY
Sample : 2,4'S @ 40ppb GCPS7-79K Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 19:21 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 19:17:42 2014
Response via : Multiple Level Calibration
DataAcq Meth : PEST1UL.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

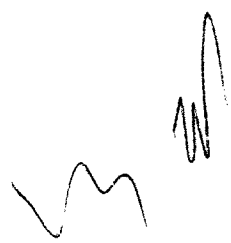
Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
 Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
 Sample : TOX @ 200ppb GCPS7-77J Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19:45 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
29) 1-Bromo-2-nitrob	5.92	5.39	1597073	593337	100.000	100.000
System Monitoring Compounds						
Target Compounds						
30) Toxaphene	14.25	12.99	23872	25223	231.963m	482.532 #
31) Toxaphene {2}	14.31	13.08	34457	10185	233.580m	93.047 #
32) Toxaphene {3}	14.46	13.44	73718	14020	202.507m	338.964 #
33) Toxaphene {4}	14.53	13.88	50718	16600	212.702	269.555 #
34) Toxaphene {5}	14.93	14.34	51389	29879	217.438m	403.572 #
35) Toxaphene {6}	15.87	14.58	64788	23189	163.728m	210.553 #

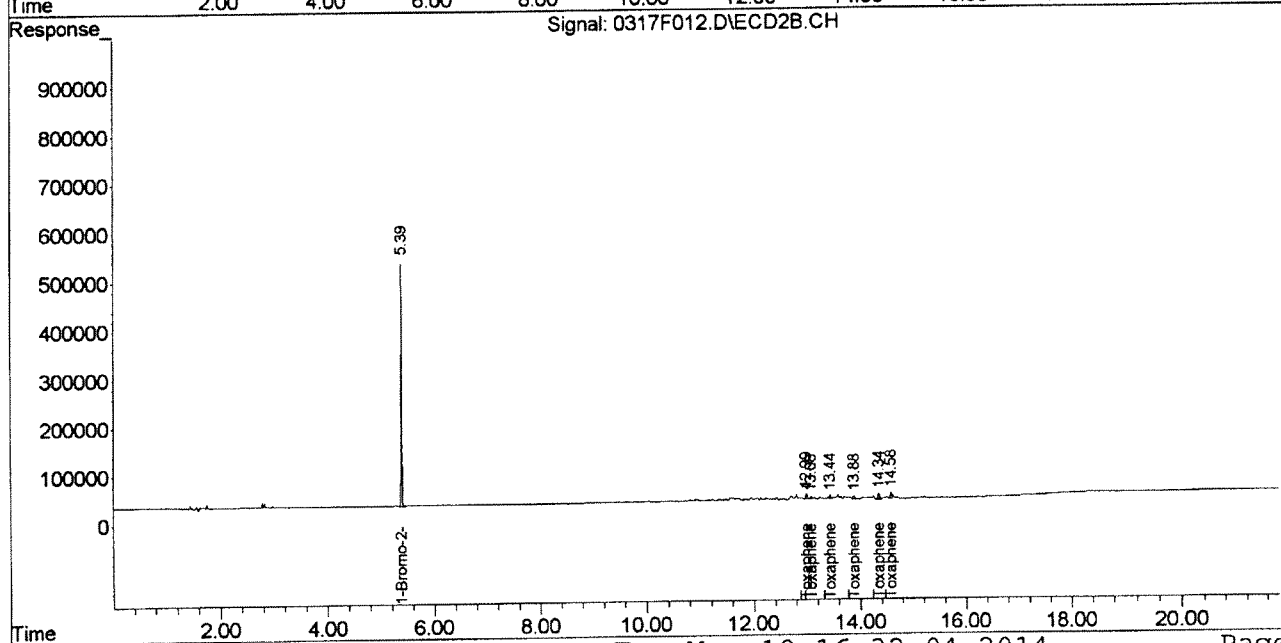
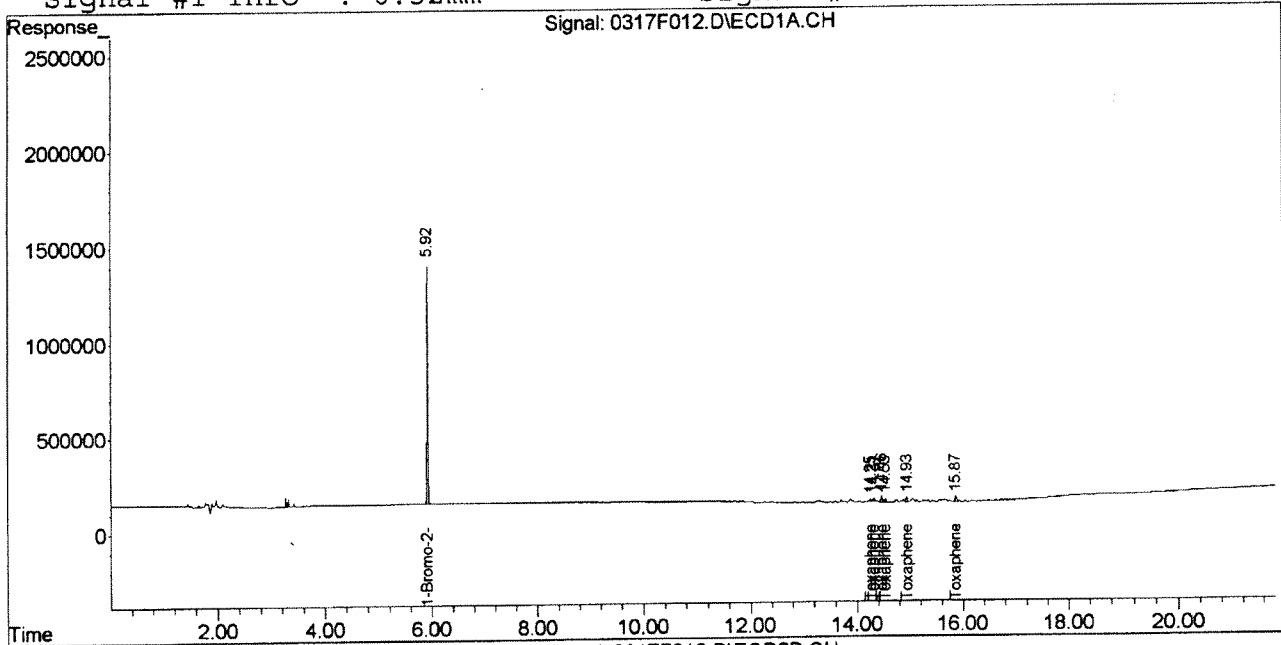


Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
Sample : TOX @ 200ppb GCPS7-77J Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:21 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration
DataAcq Meth : PESTNEW.M

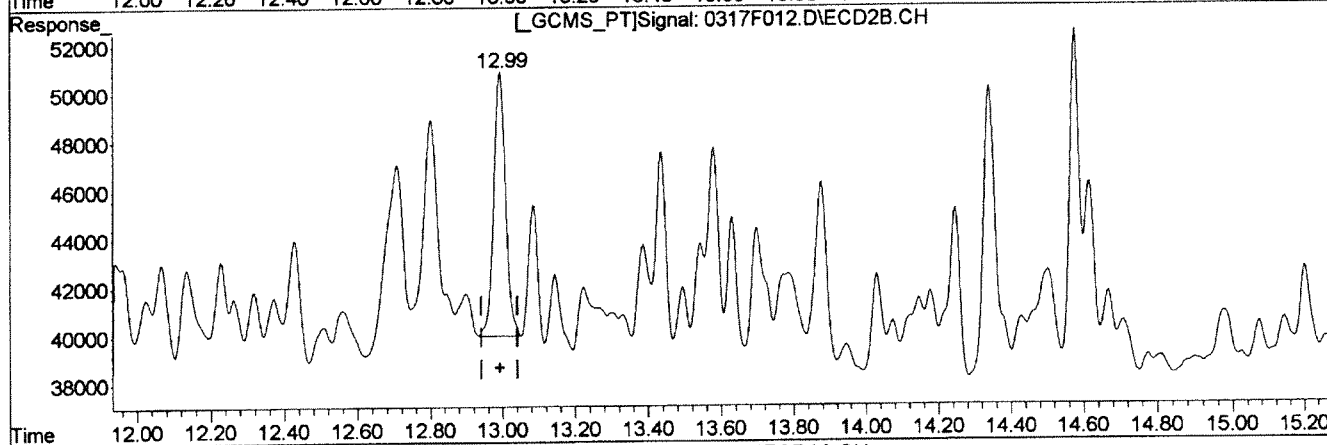
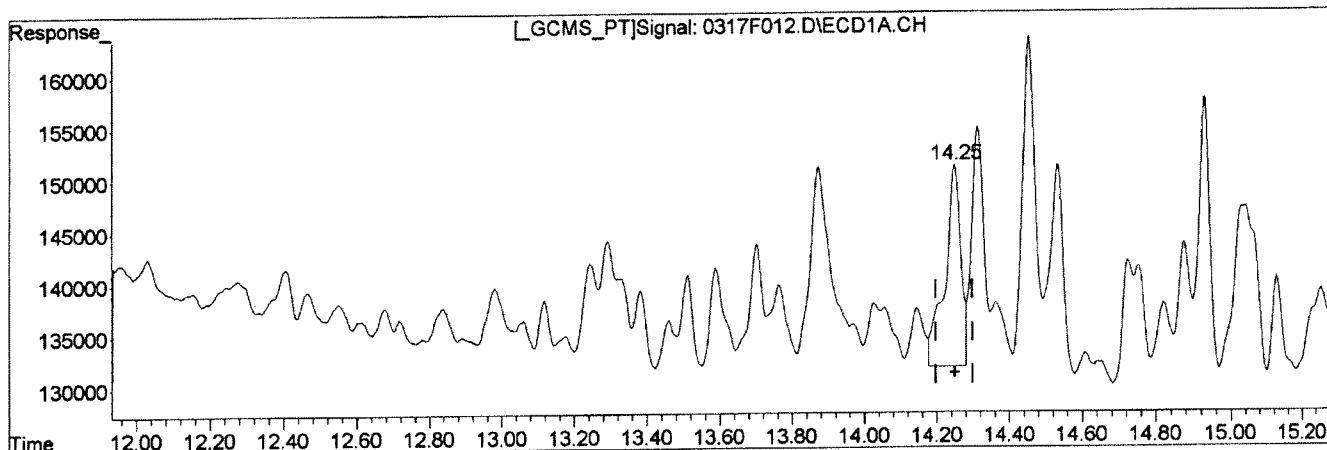
Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
 Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
 Sample : TOX @ 200ppb GCPS7-77J Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F012.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.25min 567.858ug/L	Before
response 58440	03/18/14
(30) Toxaphene #2	
12.99min 482.532ug/L	
response 25223	

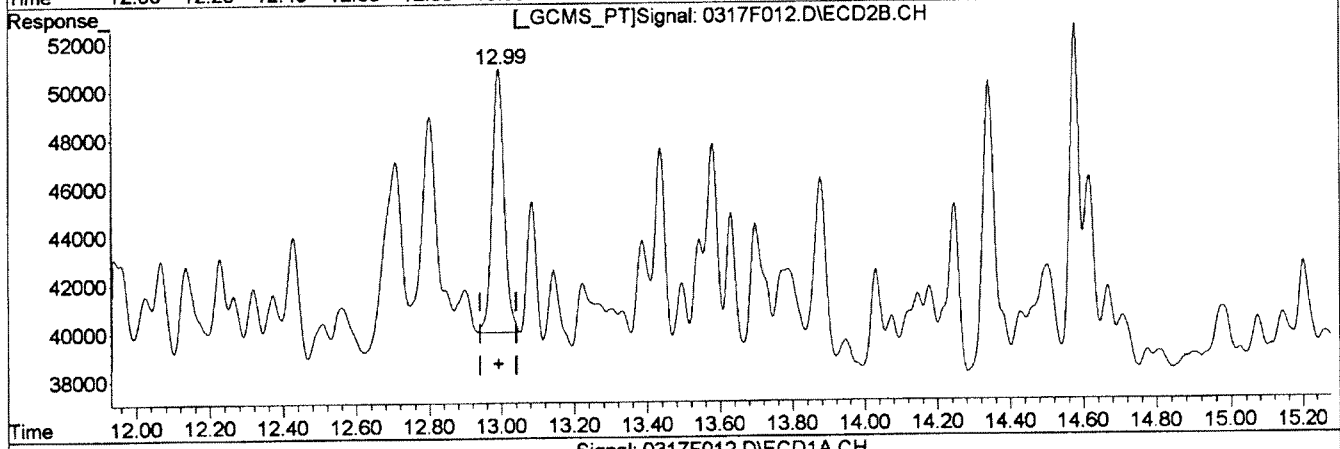
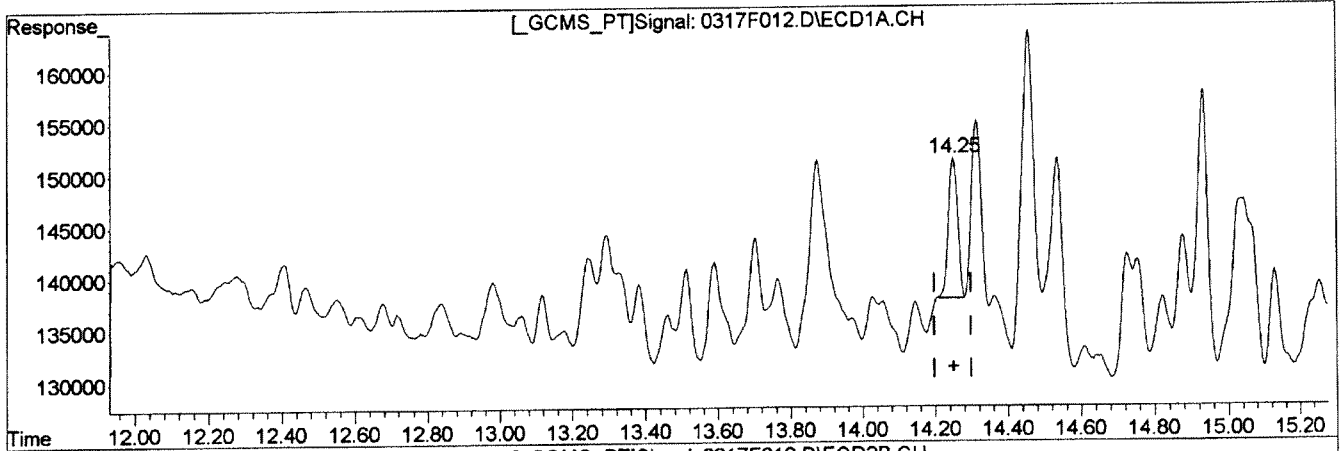
(+) = Expected Retention Time
 0317F012.D GC23-031714-8081.M

Tue Mar 18 16:20:36 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
 Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
 Sample : TOX @ 200ppb GCPS7-77J Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F012.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.25min 231.963ug/L m	After
response 23872	Baseline/Shoulder
	03/18/14
(30) Toxaphene #2	
12.99min 482.532ug/L	
response 25223	

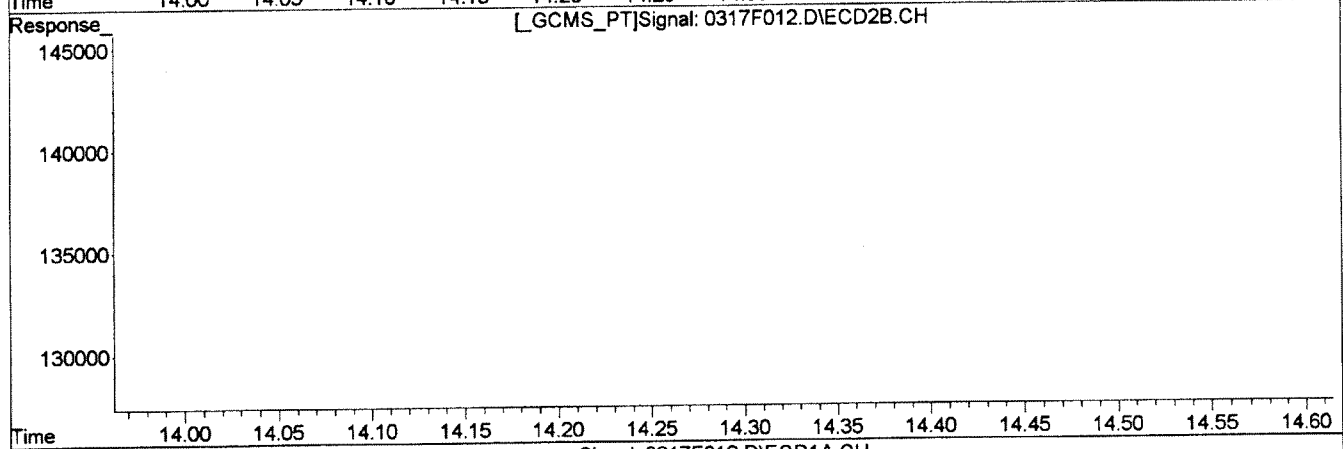
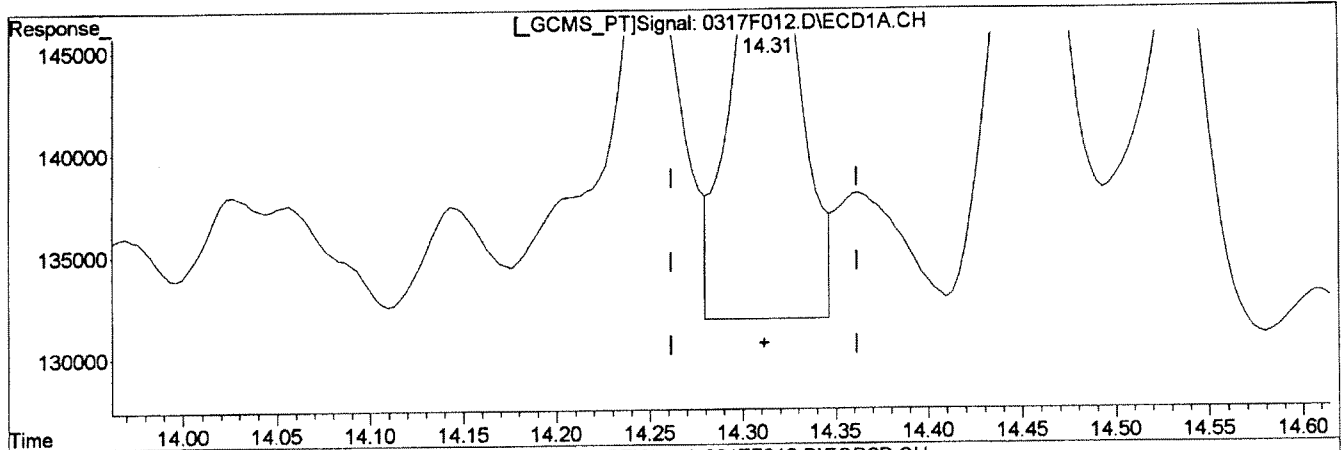
(+) = Expected Retention Time
 0317F012.D GC23-031714-8081.M

Tue Mar 18 16:20:41 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
Sample : TOX @ 200ppb GCPS7-77J Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F012.D\ECD1A.CH

Retention Time	Concentration	Response	Integration Status	Date
(31) Toxaphene (2) 14.31min	369.579ug/L	54519	Manual Integration: Before	03/18/14
(31) Toxaphene (2) #2 13.08min	93.047ug/L	10185		

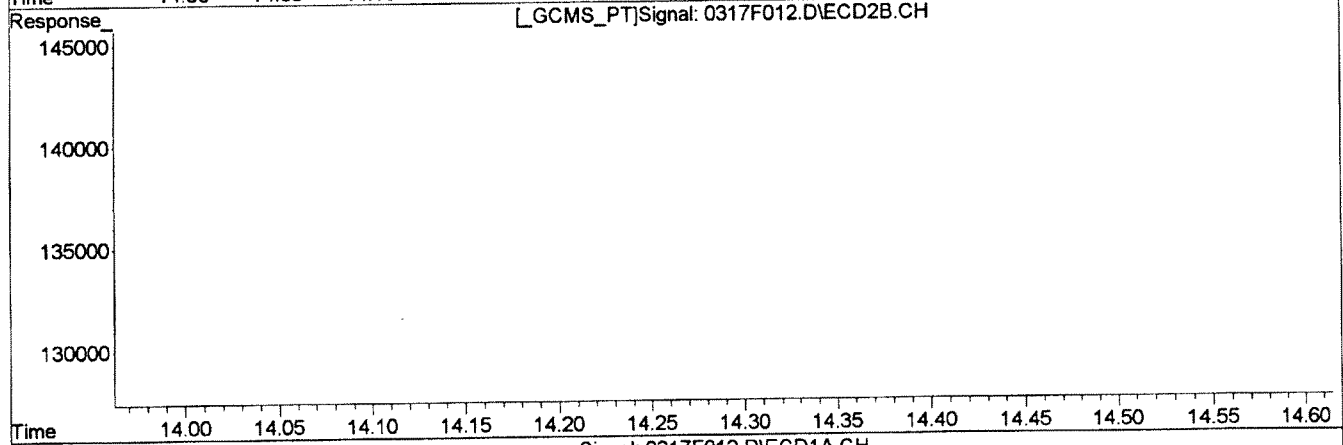
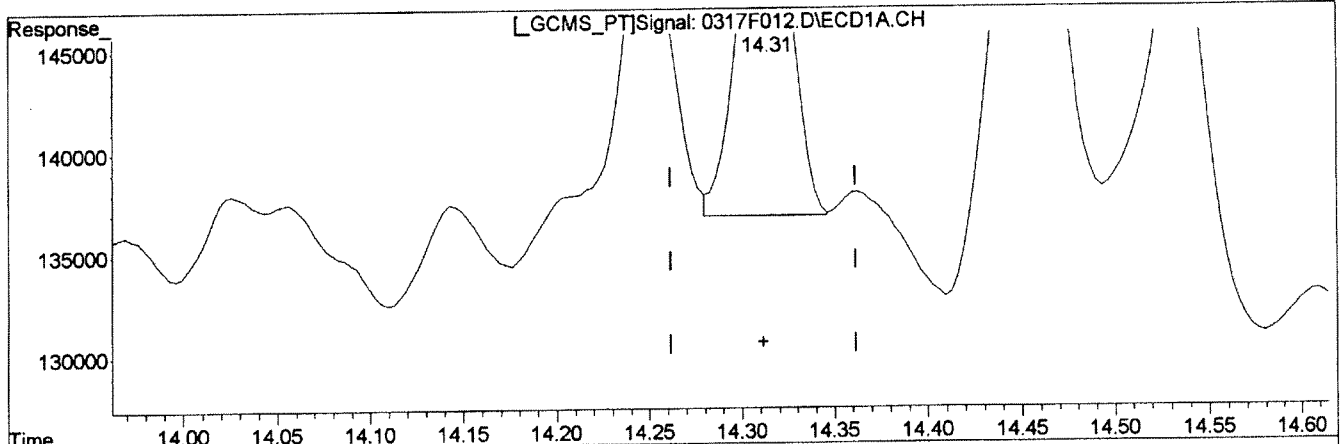
(+) = Expected Retention Time
0317F012.D GC23-031714-8081.M

Tue Mar 18 16:20:43 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
Sample : TOX @ 200ppb GCPS7-77J Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

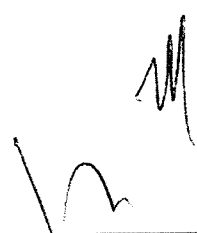
Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F012.D\ECD1A.CH

Retention Time (min)	Response	Concentration (ug/L)
14.31	34457	233.580
13.08	10185	93.047

Manual Integration:
After
Baseline/Shoulder
03/18/14

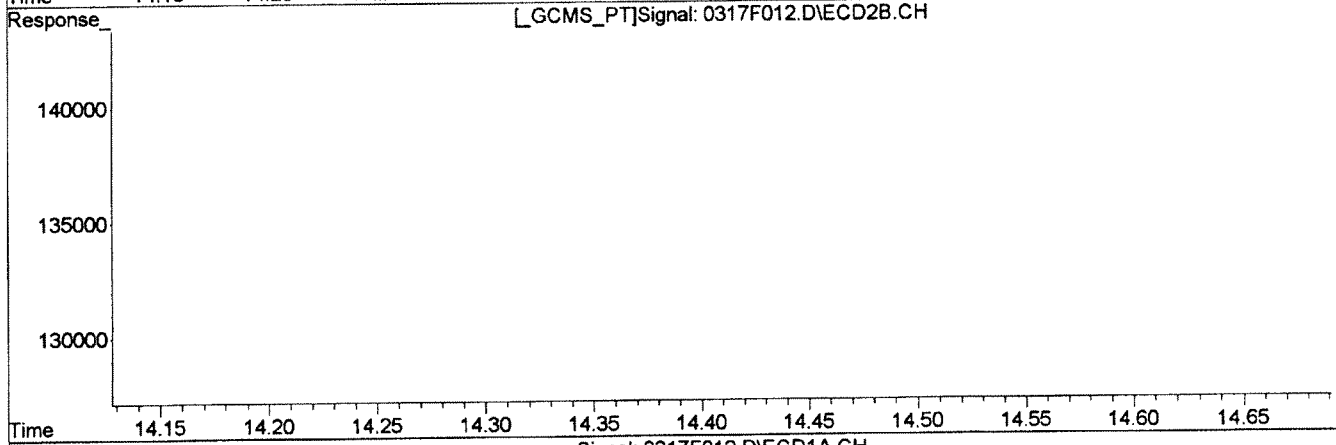
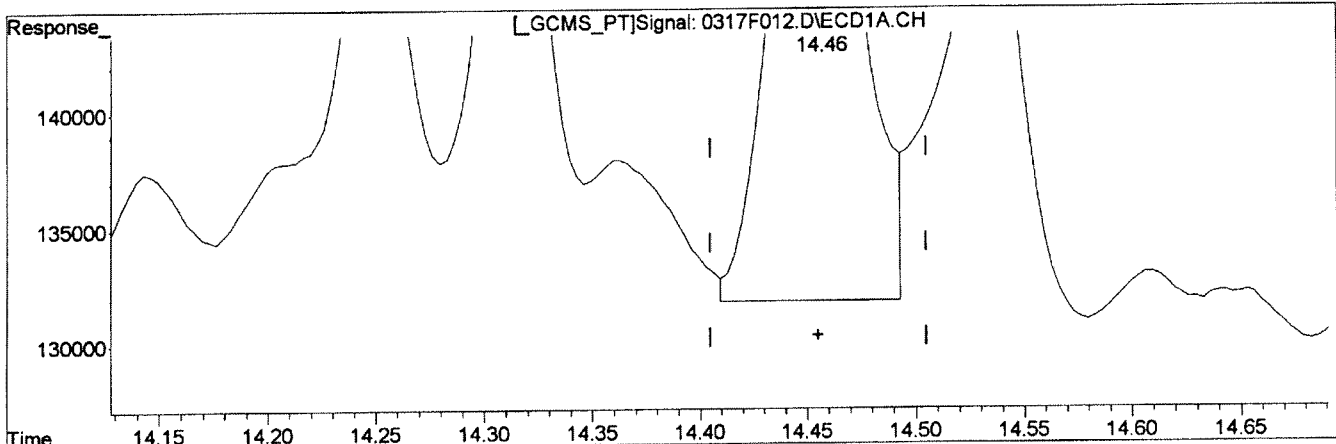


(+) = Expected Retention Time
0317F012.D GC23-031714-8081.M Tue Mar 18 16:20:48 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
Sample : TOX @ 200ppb GCPS7-77J Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F012.D\ECD1A.CH

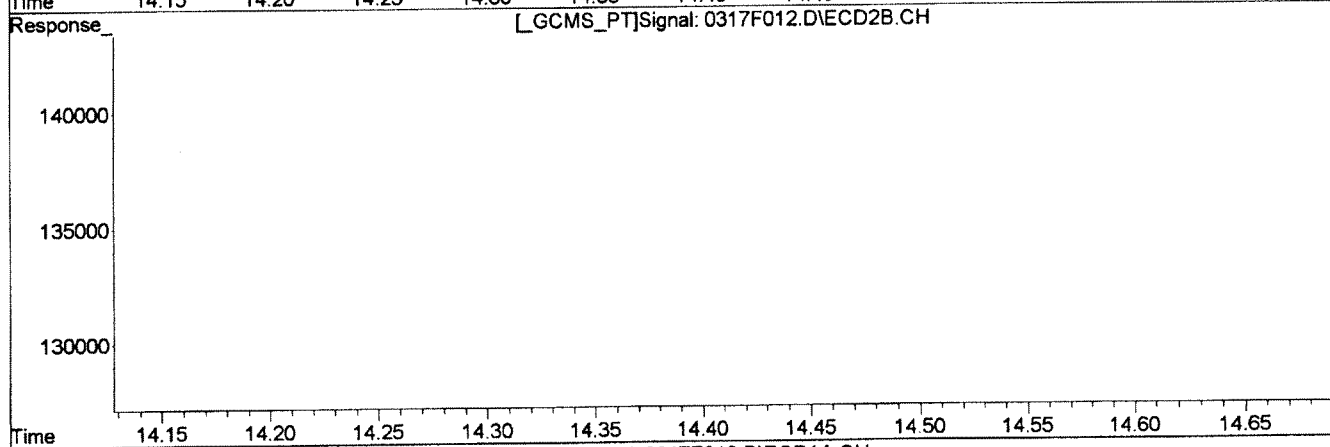
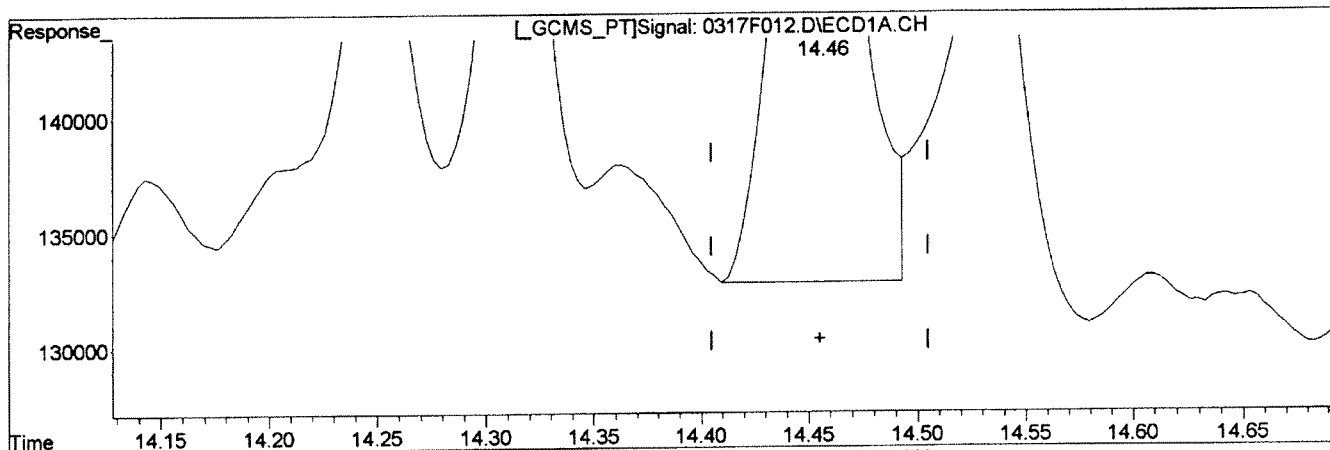
Retention Time	Concentration	Response	Integration Status	Date
(32) Toxaphene (3) 14.46min	215.707ug/L	78523	Manual Integration: Before	03/18/14
(32) Toxaphene (3) #2 13.44min	338.964ug/L	14020		

(+) = Expected Retention Time
0317F012.D GC23-031714-8081.M Tue Mar 18 16:20:51 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
 Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
 Sample : TOX @ 200ppb GCP57-77J Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F012.D\ECD1A.CH

(32) Toxaphene (3)	Manual Integration:
14.46min 202.507ug/L m	After
response 73718	Baseline/Shoulder
	03/18/14
(32) Toxaphene (3) #2	
13.44min 338.964ug/L	
response 14020	

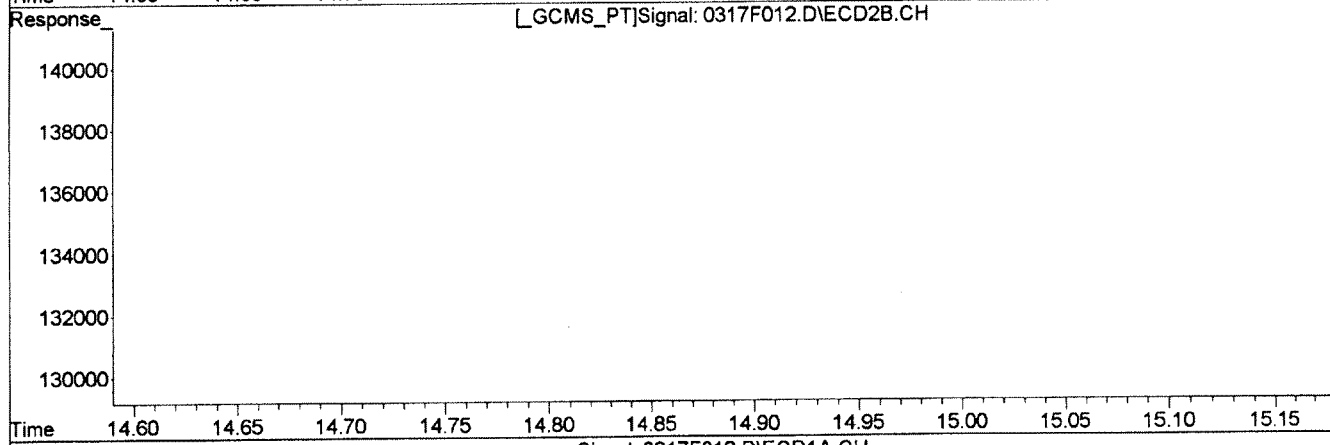
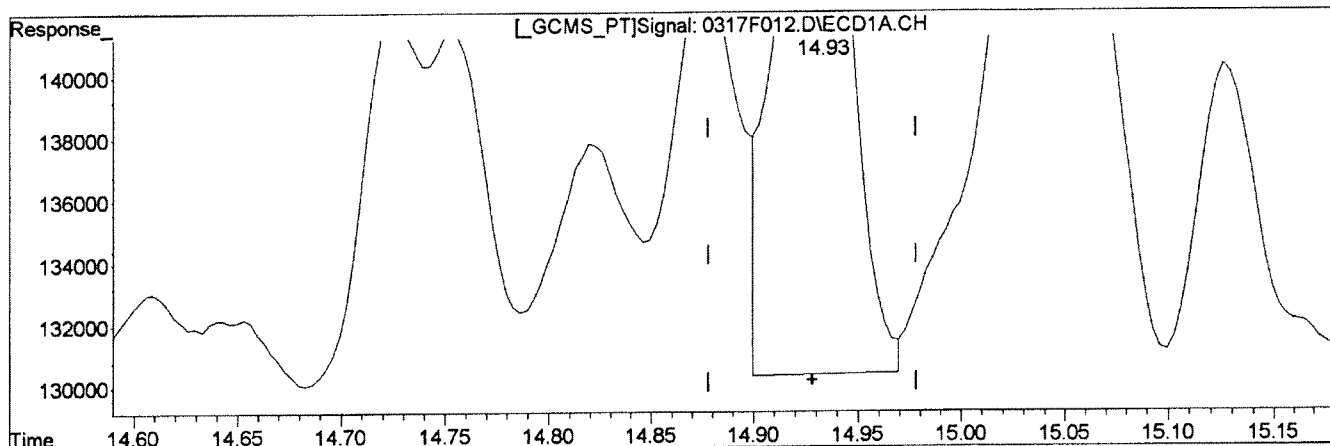
(+) = Expected Retention Time
 0317F012.D GC23-031714-8081.M

Tue Mar 18 16:20:57 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
 Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
 Sample : TOX @ 200ppb GCPS7-77J Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F012.D\ECD1A.CH

(34) Toxaphene (5)	Manual Integration:
14.93min 236.682ug/L	Before
response 55937	03/18/14
(34) Toxaphene (5) #2	
14.34min 403.572ug/L	
response 29879	

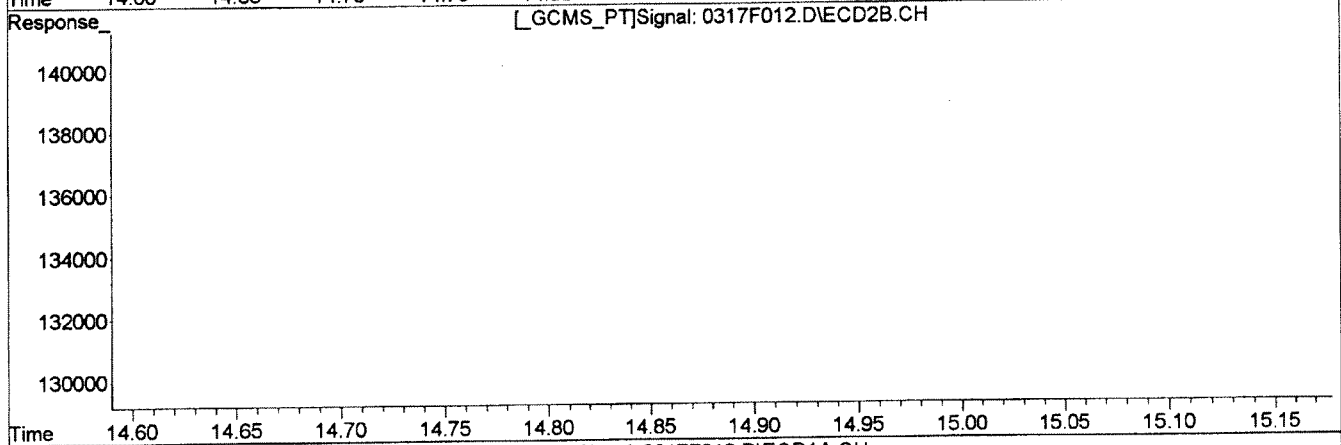
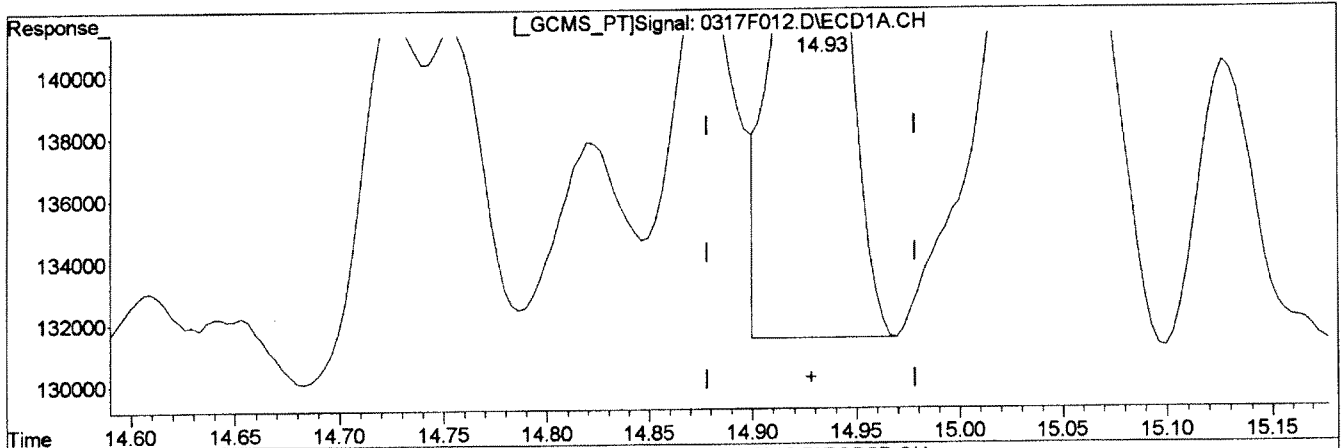
(+) = Expected Retention Time
 0317F012.D GC23-031714-8081.M

Tue Mar 18 16:21:01 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
 Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
 Sample : TOX @ 200ppb GCPS7-77J Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F012.D\ECD1A.CH

(34) Toxaphene (5)	Manual Integration:
14.93min 217.438ug/L m	After
response 51389	Baseline/Shoulder
	03/18/14
(34) Toxaphene (5) #2	
14.34min 403.572ug/L	
response 29879	

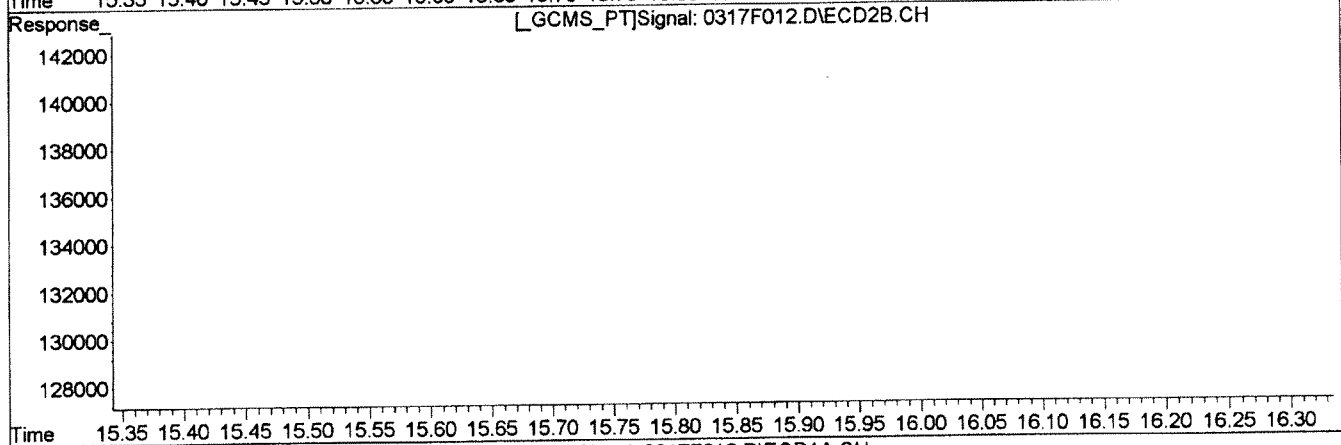
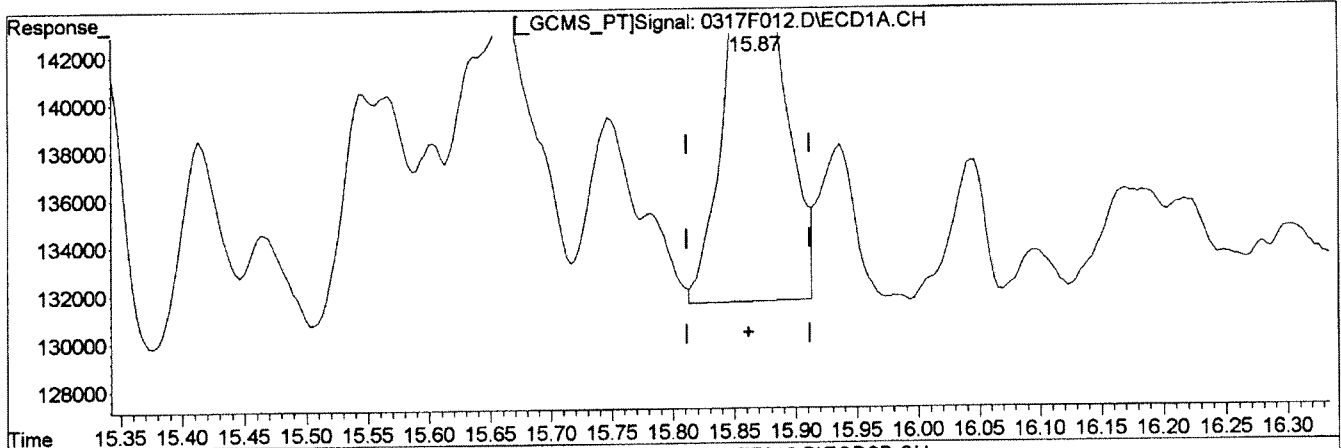
(+) = Expected Retention Time
 0317F012.D GC23-031714-8081.M

Tue Mar 18 16:21:06 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
Sample : TOX @ 200ppb GCPS7-77J Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F012.D\ECD1A.CH	
(35) Toxaphene (6)	Manual Integration:
15.87min 170.923ug/L	Before
response 67635	03/18/14
(35) Toxaphene (6) #2	
14.58min 210.553ug/L	
response 23189	

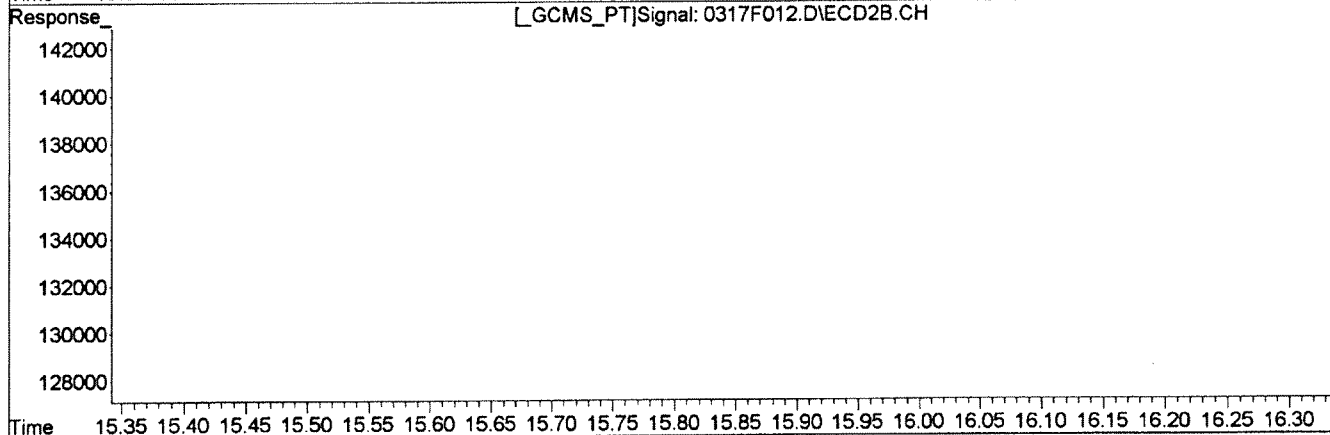
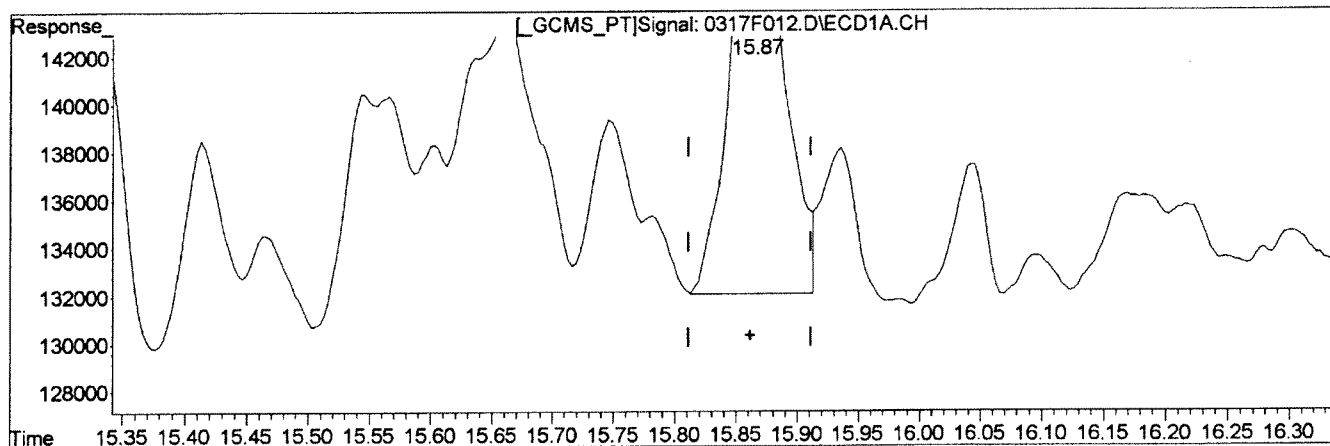
(+) = Expected Retention Time
0317F012.D GC23-031714-8081.M

Tue Mar 18 16:21:09 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD1A.CH Vial: 80
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F012.D\ECD2B.CH
 Acq On : 17 Mar 2014 6:25 pm Operator: SMURRAY
 Sample : TOX @ 200ppb GCPS7-77J Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F012.D\ECD1A.CH		Manual Integration:
(35) Toxaphene (6)		After
15.87min 163.728ug/L m		Baseline/Shoulder
response 64788		03/18/14
(35) Toxaphene (6) #2		
14.58min 210.553ug/L		
response 23189		

(+) = Expected Retention Time
 0317F012.D GC23-031714-8081.M Tue Mar 18 16:21:13 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
 Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
 Sample : TOX @ 250ppb GCPS7-77K Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19:48 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

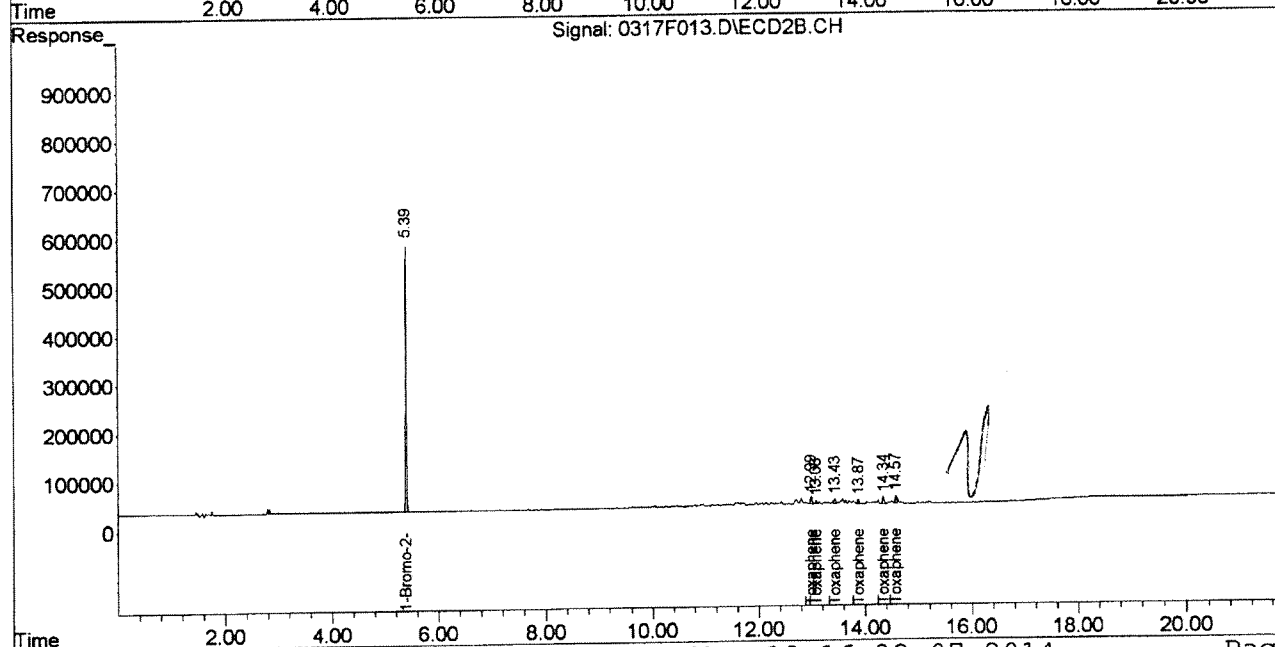
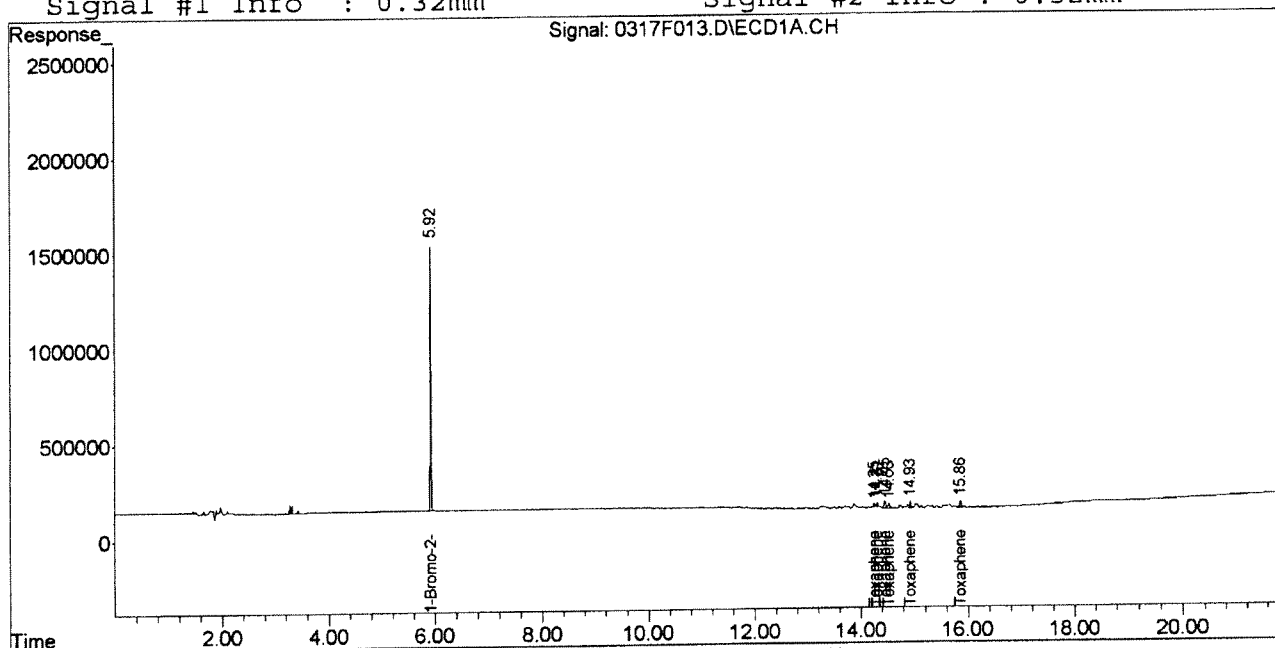
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
29) 1-Bromo-2-nitrob	5.92	5.39	1729256	634375	100.000	100.000
System Monitoring Compounds						
Target Compounds						
30) Toxaphene	14.25	12.99	30491	32925	273.632m	589.129 #
31) Toxaphene {2}	14.31	13.08	46171	13381	289.064m	114.336 #
32) Toxaphene {3}	14.45	13.43	98804	18772	250.673	424.493m#
33) Toxaphene {4}	14.53	13.87	67802	21590	262.614	327.905m
34) Toxaphene {5}	14.93	14.34	67998	39232	265.722	495.622 #
35) Toxaphene {6}	15.86	14.57	85612	30134	199.816	255.912m#

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
 Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
 Sample : TOX @ 250ppb GCPS7-77K Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:22 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PESTNEW.M

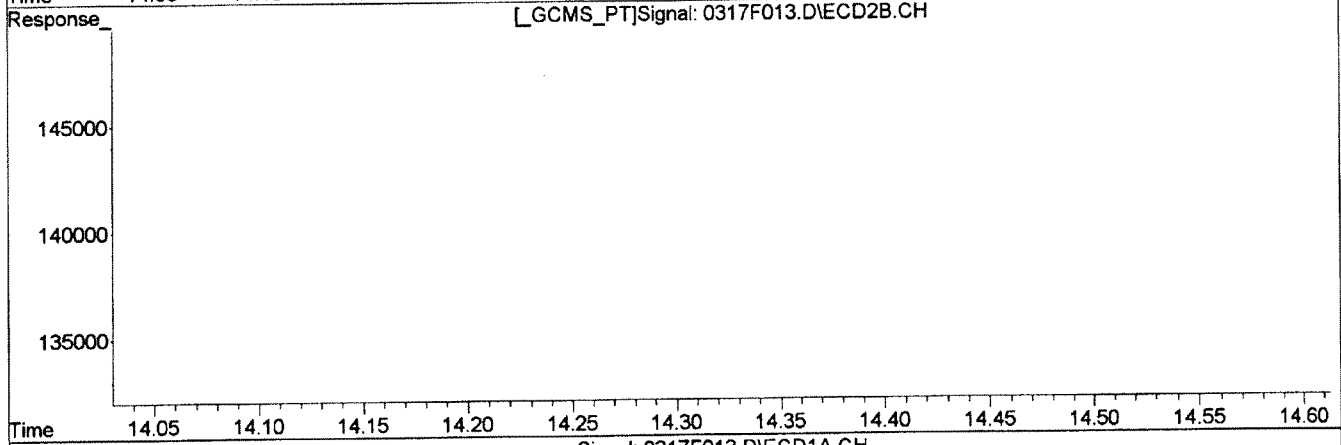
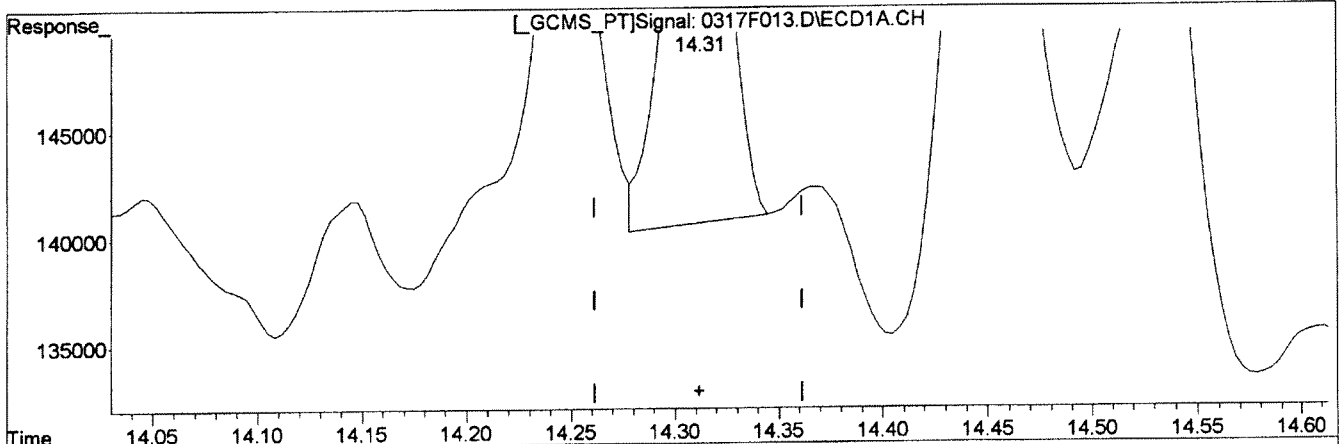
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
Sample : TOX @ 250ppb GCPS7-77K Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F013.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Integration Status	Date
(31) Toxaphene (2)			Manual Integration: Before	
14.31min	298.242	47637		03/18/14
(31) Toxaphene (2) #2				
13.08min	114.336	13381		

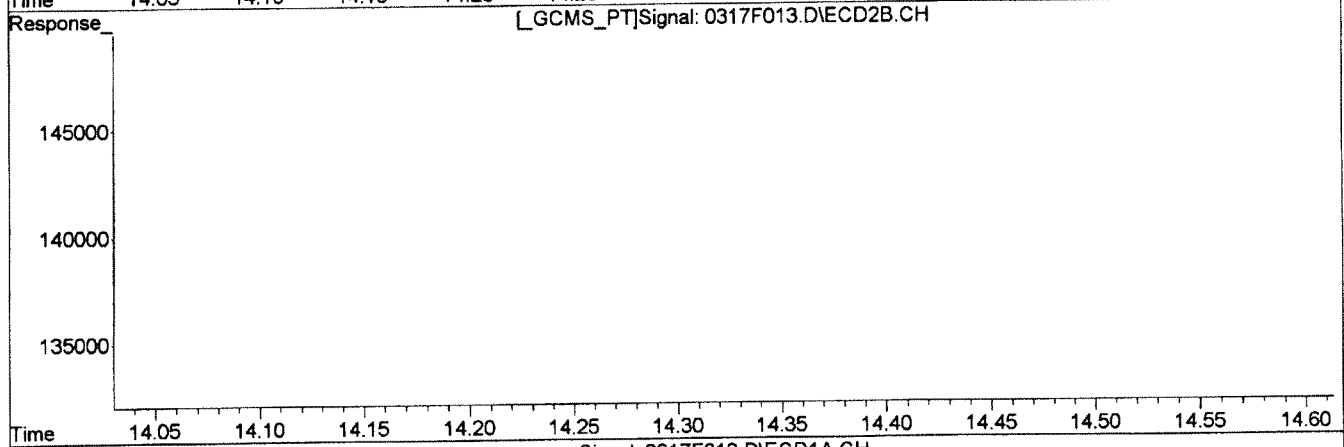
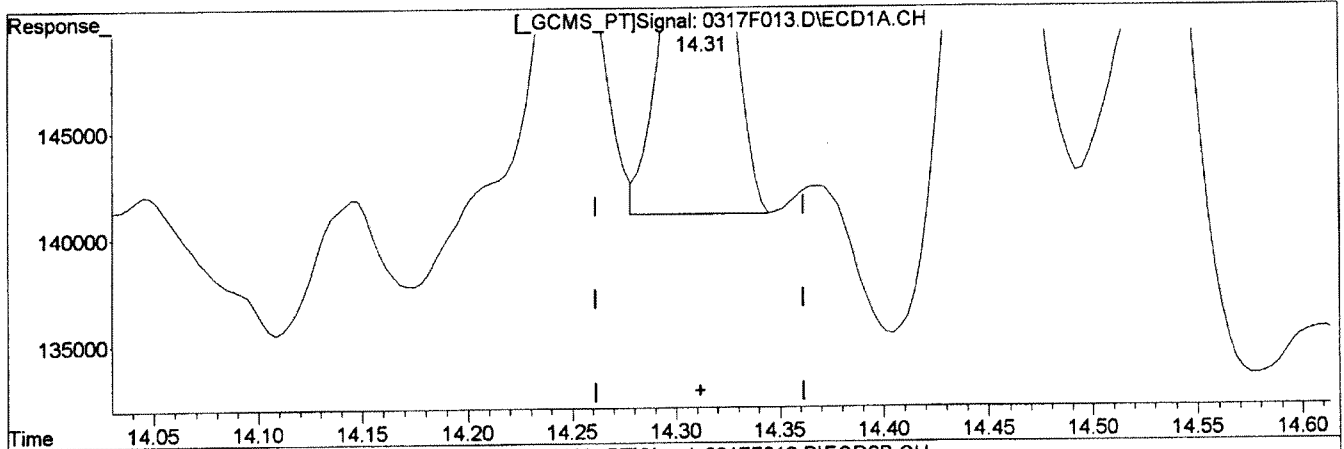
(+) = Expected Retention Time
0317F013.D GC23-031714-8081.M

Tue Mar 18 16:21:42 2014

Quantitation Report (Qedit)


Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
Sample : TOX @ 250ppb GCPS7-77K Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F013.D\ECD1A.CH

(31) Toxaphene (2)	Manual Integration:
14.31min 289.064ug/L m	After
response 46171	Baseline/Shoulder
	03/18/14
(31) Toxaphene (2) #2	
13.08min 114.336ug/L	
response 13381	



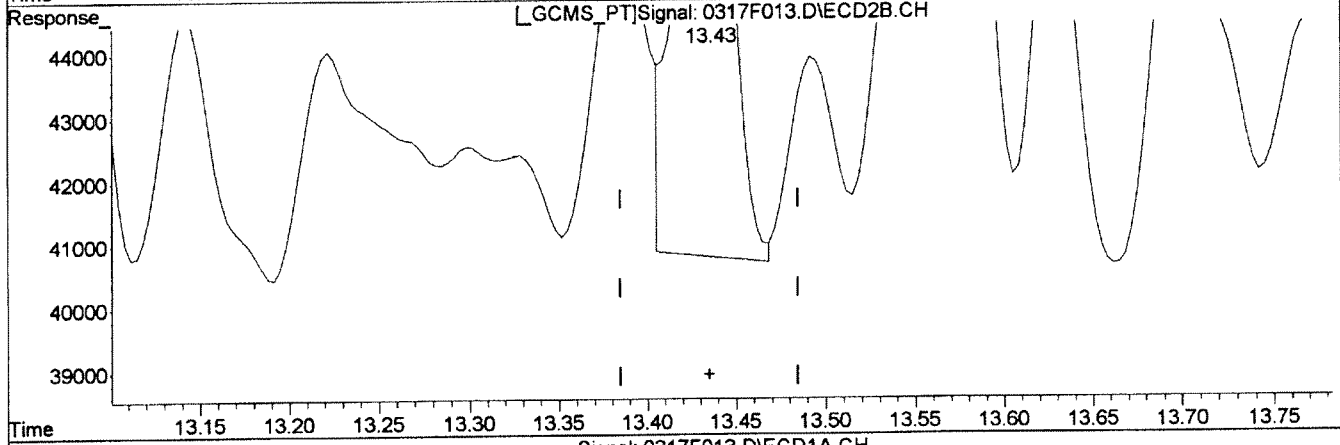
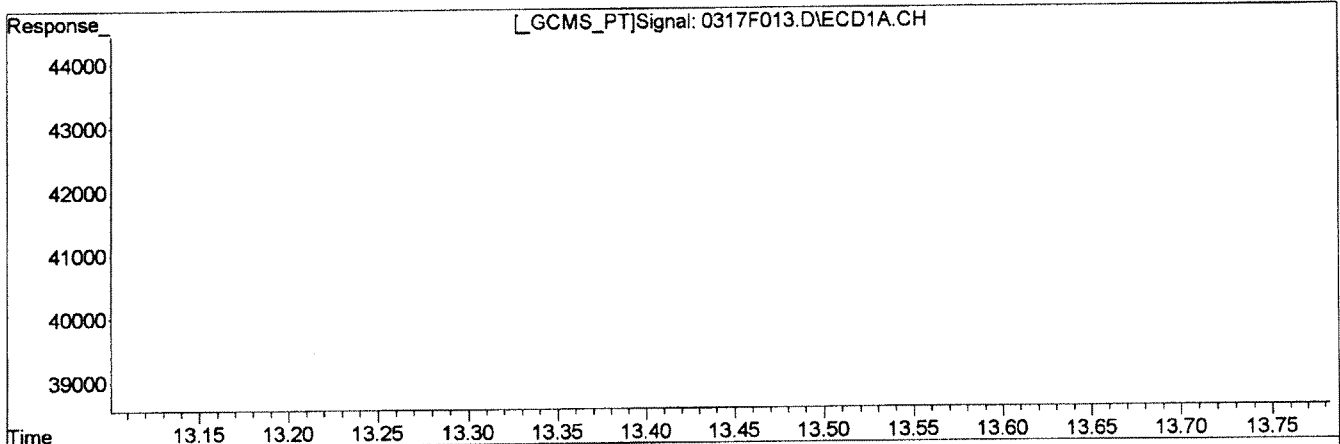
(+) = Expected Retention Time
0317F013.D GC23-031714-8081.M

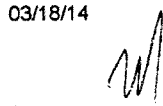

Tue Mar 18 16:21:48 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
Sample : TOX @ 250ppb GCPS7-77K Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F013.D\ECD1A.CH		Manual Integration:
(32) Toxaphene (3)		Before
14.45min 250.673ug/L		
response 98804		03/18/14
(32) Toxaphene (3) #2		
13.43min 440.956ug/L		
response 19500		

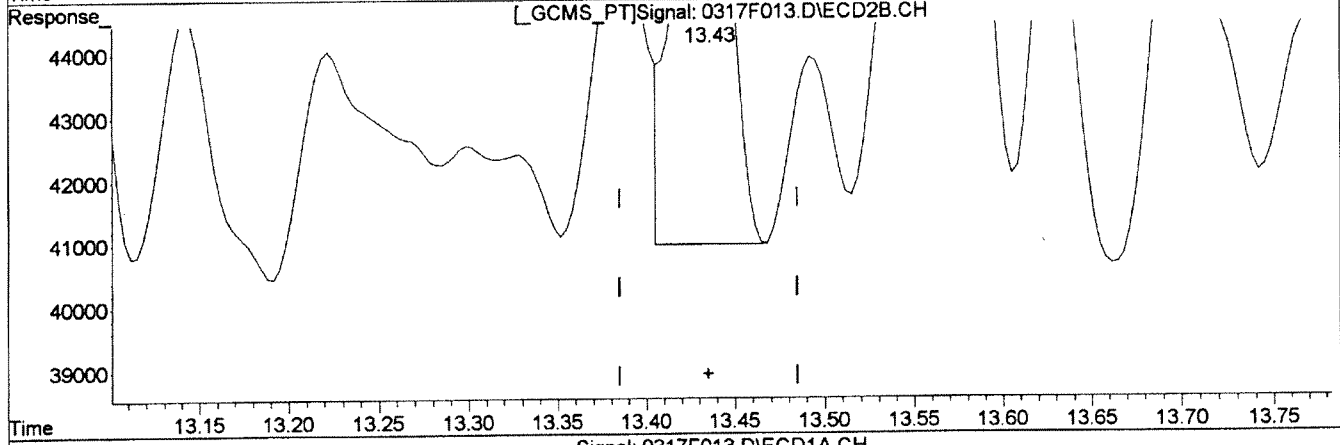
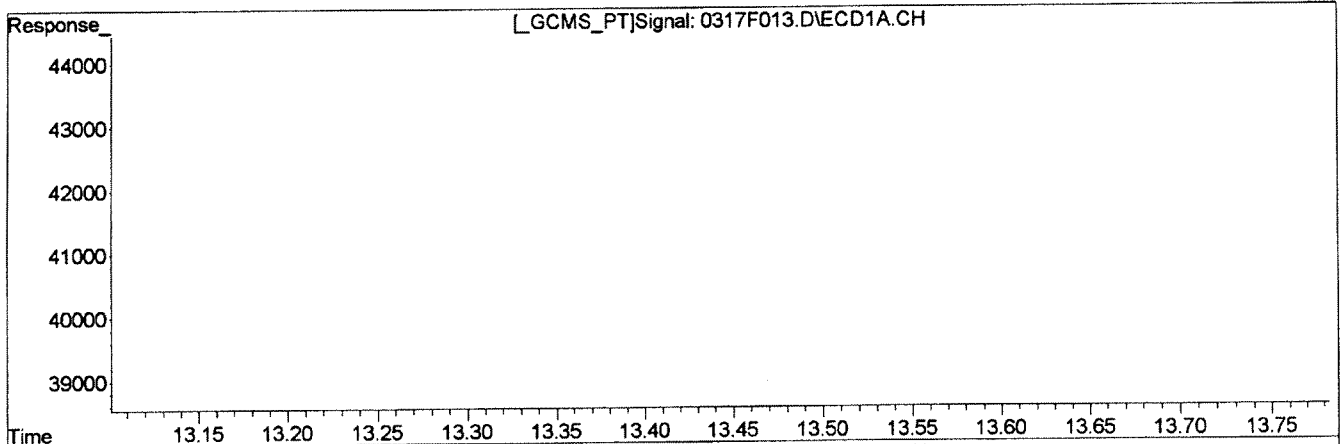
(+) = Expected Retention Time
0317F013.D GC23-031714-8081.M

Tue Mar 18 16:21:51 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
Sample : TOX @ 250ppb GCPS7-77K Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F013.D\ECD1A.CH		Manual Integration:
(32) Toxaphene (3)		After
14.45min 250.673ug/L		Baseline/Shoulder
response 98804		03/18/14
(32) Toxaphene (3) #2		
13.43min 424.493ug/L m		
response 18772		

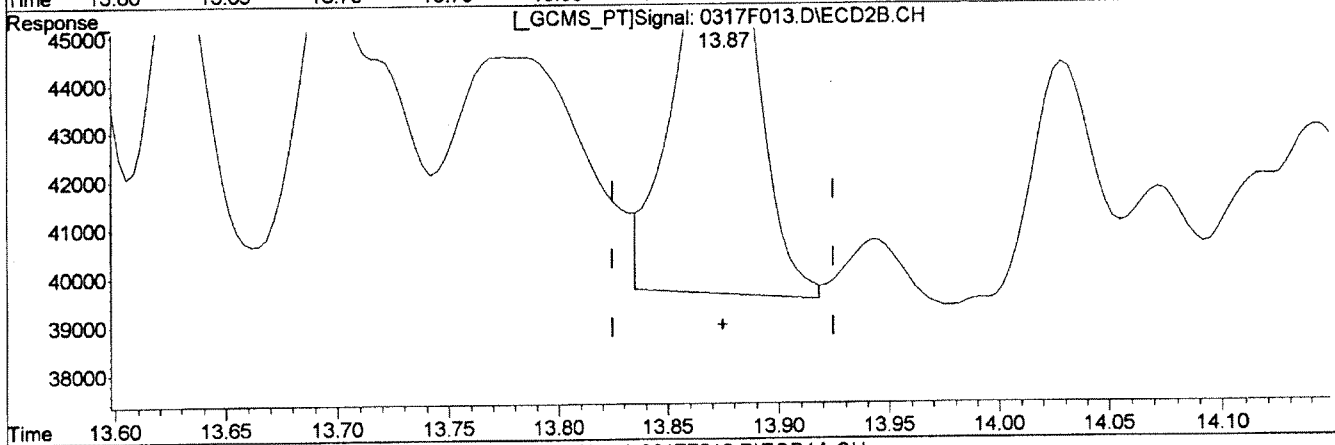
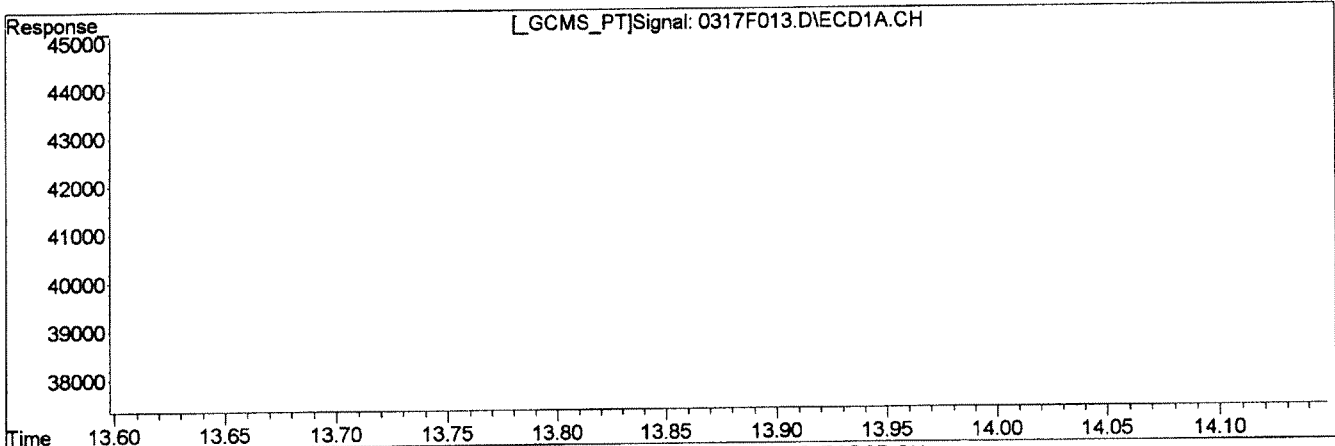
(+) = Expected Retention Time
0317F013.D GC23-031714-8081.M

Tue Mar 18 16:21:57 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
Sample : TOX @ 250ppb GCPS7-77K Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F013.D\ECD1A.CH	
(33) Toxaphene (4)	Manual Integration:
14.53min 262.614ug/L	Before
response 67802	03/18/14
(33) Toxaphene (4) #2	
13.87min 338.810ug/L	
response 22308	

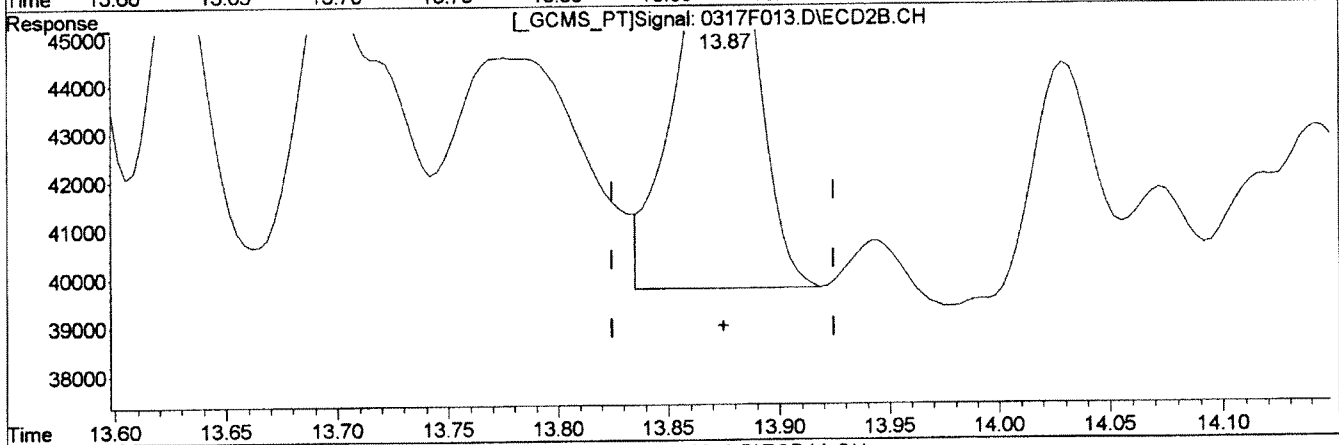
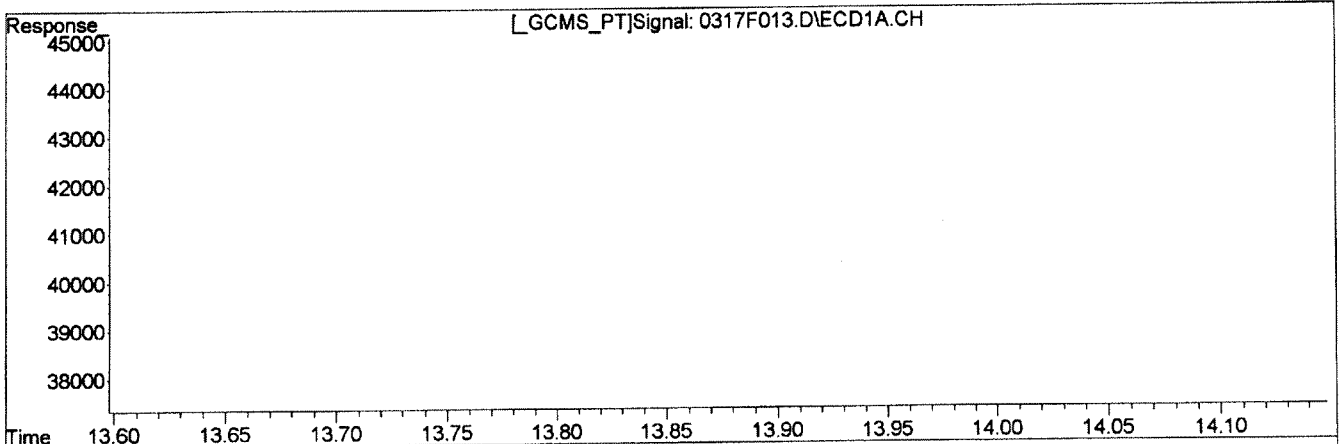
(+) = Expected Retention Time
0317F013.D GC23-031714-8081.M

Tue Mar 18 16:22:00 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
Sample : TOX @ 250ppb GCPS7-77K Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F013.D\ECD1A.CH	
(33) Toxaphene {4}	Manual Integration:
14.53min 262.614ug/L	After
response 67802	Baseline/Shoulder
	03/18/14
(33) Toxaphene {4} #2	
13.87min 327.905ug/L m	
response 21590	

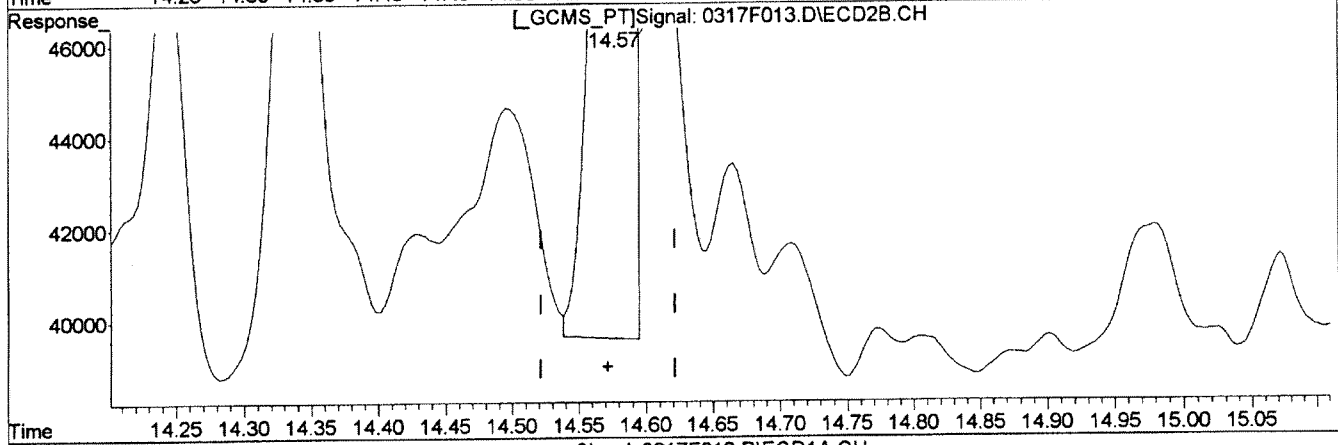
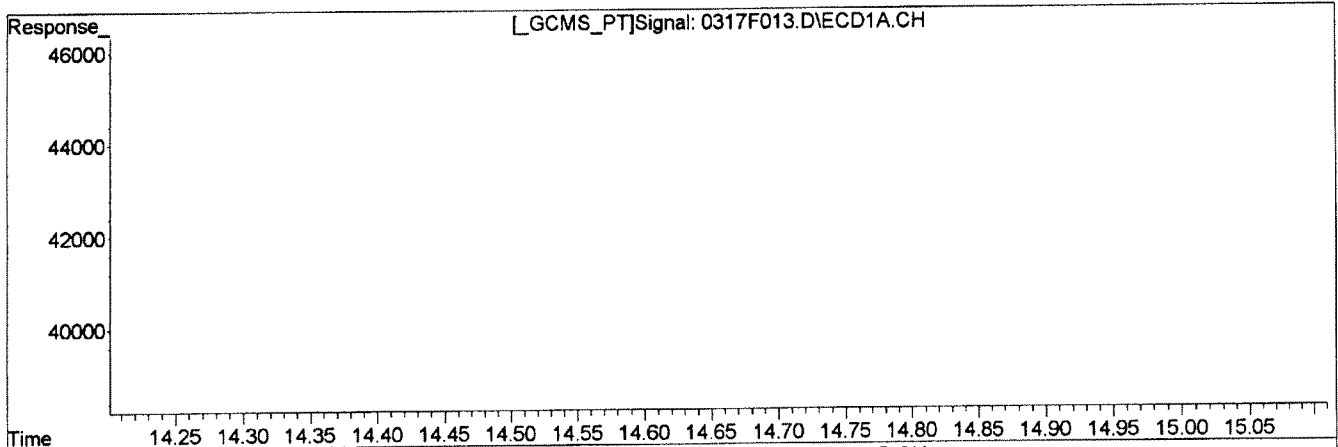
(+) = Expected Retention Time
0317F013.D GC23-031714-8081.M



Tue Mar 18 16:22:05 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
Sample : TOX @ 250ppb GCPS7-77K Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F013.D\ECD1A.CH		Manual Integration:
(35) Toxaphene (6)		Before
15.86min 199.816ug/L		
response 85612		03/18/14
(35) Toxaphene (6) #2		
14.57min 269.364ug/L		
response 31718		

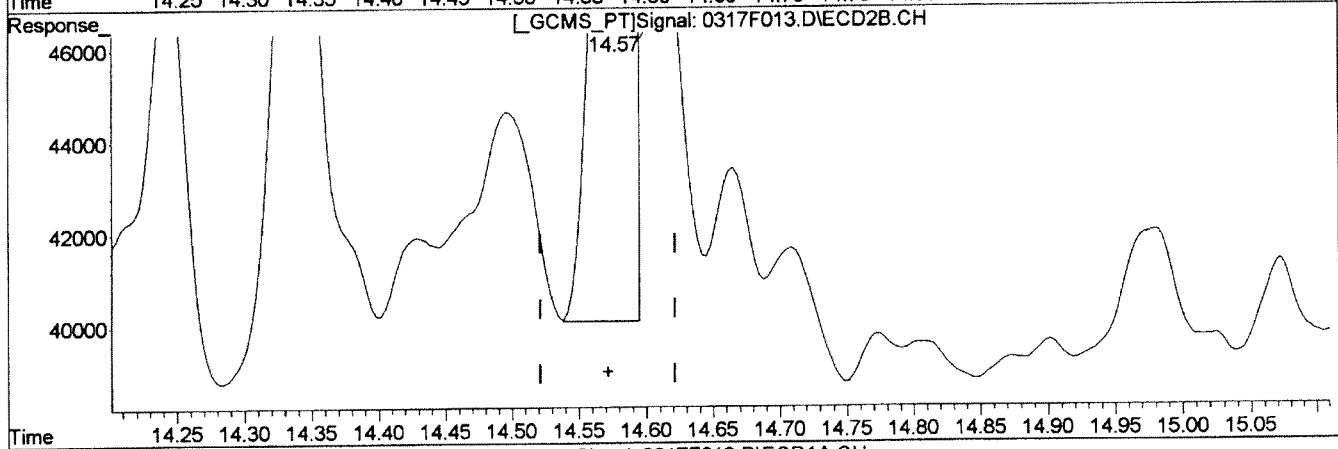
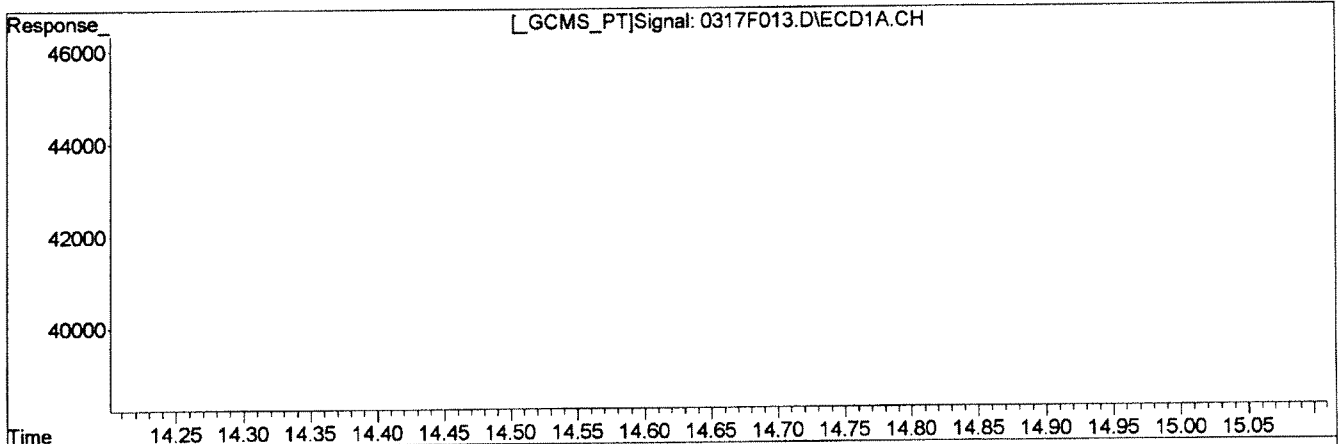
(+) = Expected Retention Time
0317F013.D GC23-031714-8081.M

Tue Mar 18 16:22:09 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
Sample : TOX @ 250ppb GCPS7-77K Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F013.D\ECD1A.CH	
(35) Toxaphene (6)	Manual Integration:
15.86min 199.816ug/L	After
response 85612	Baseline/Shoulder
	03/18/14
(35) Toxaphene (6) #2	
14.57min 255.912ug/L m	
response 30134	

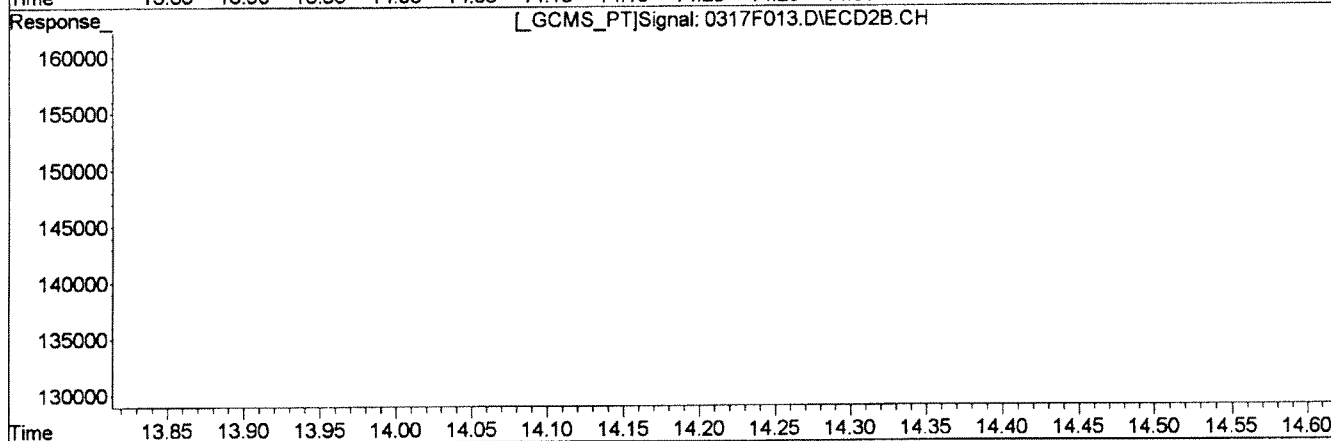
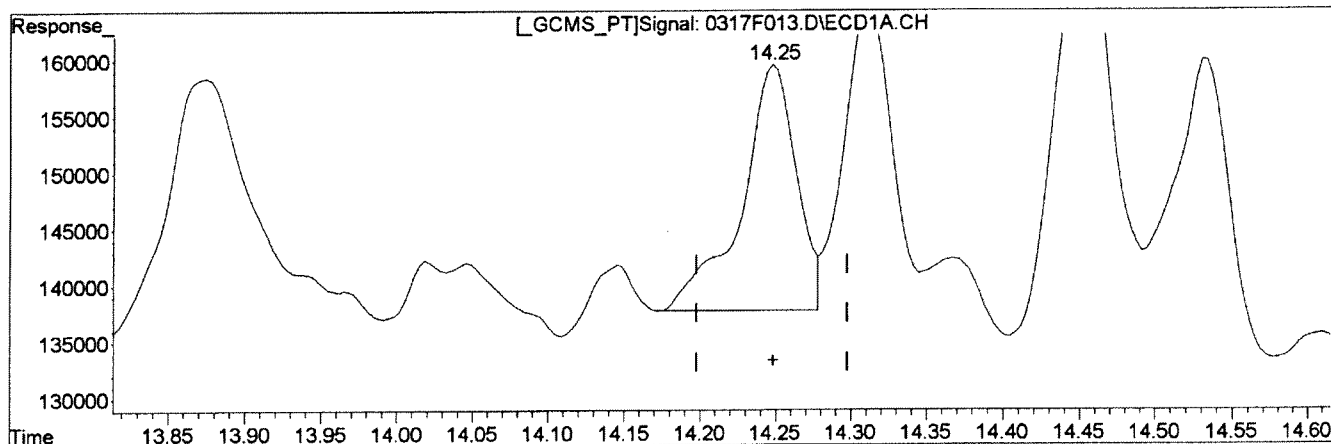
(+) = Expected Retention Time
0317F013.D GC23-031714-8081.M

Tue Mar 18 16:22:14 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
 Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
 Sample : TOX @ 250ppb GCPS7-77K Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F013.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.25min 499.288ug/L	Before
response 55636	
	03/18/14
(30) Toxaphene #2	
12.99min 589.129ug/L	
response 32925	

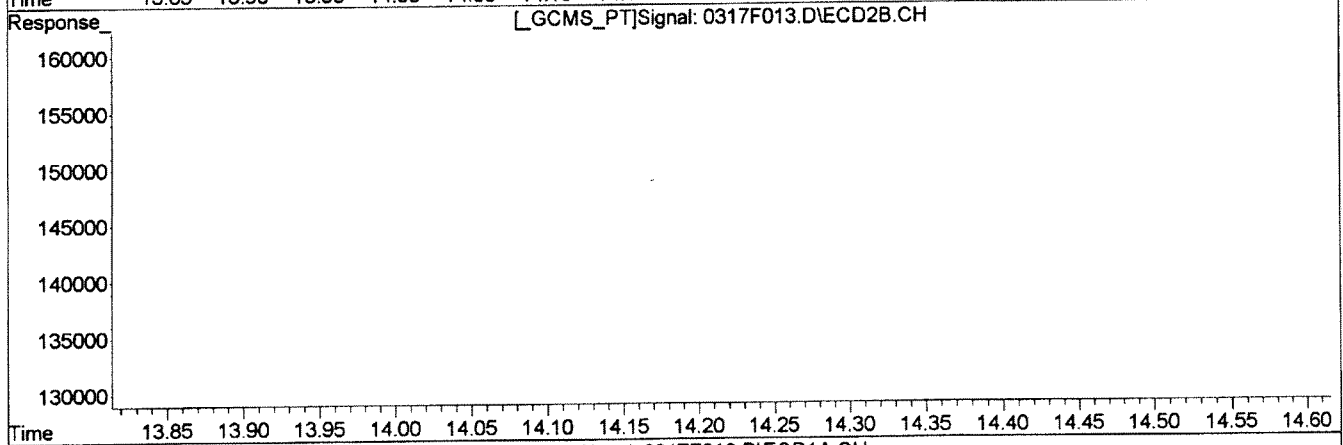
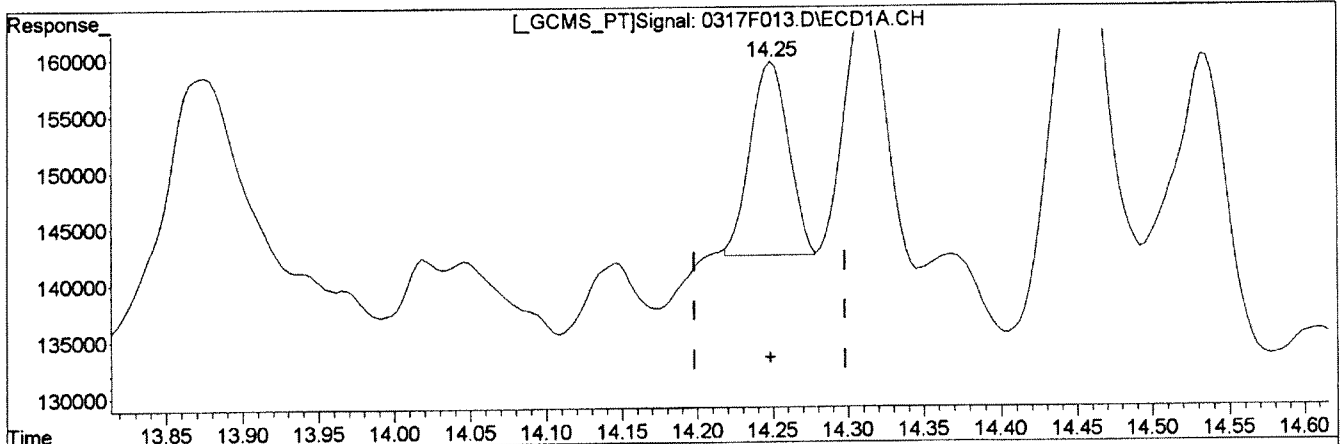
(+) = Expected Retention Time
 0317F013.D GC23-031714-8081.M

Tue Mar 18 16:22:21 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD1A.CH Vial: 81
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F013.D\ECD2B.CH
 Acq On : 17 Mar 2014 6:54 pm Operator: SMURRAY
 Sample : TOX @ 250ppb GCP57-77K Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F013.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.25min 273.632ug/L m	After
response 30491	Baseline/Shoulder
	03/18/14
(30) Toxaphene #2	
12.99min 589.129ug/L	
response 32925	

(+) = Expected Retention Time
 0317F013.D GC23-031714-8081.M

Tue Mar 18 16:22:24 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD1A.CH Vial: 82
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:23 pm Operator: SMURRAY
 Sample : TOX @ 500ppb GCPS7-77L Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19:50 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

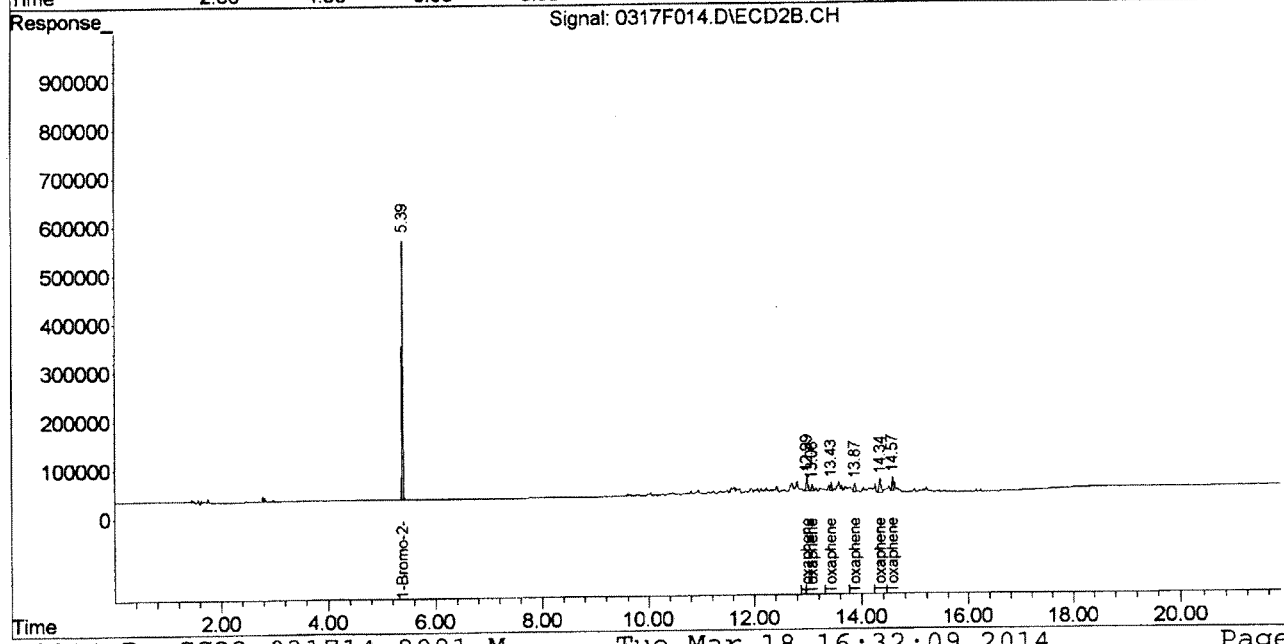
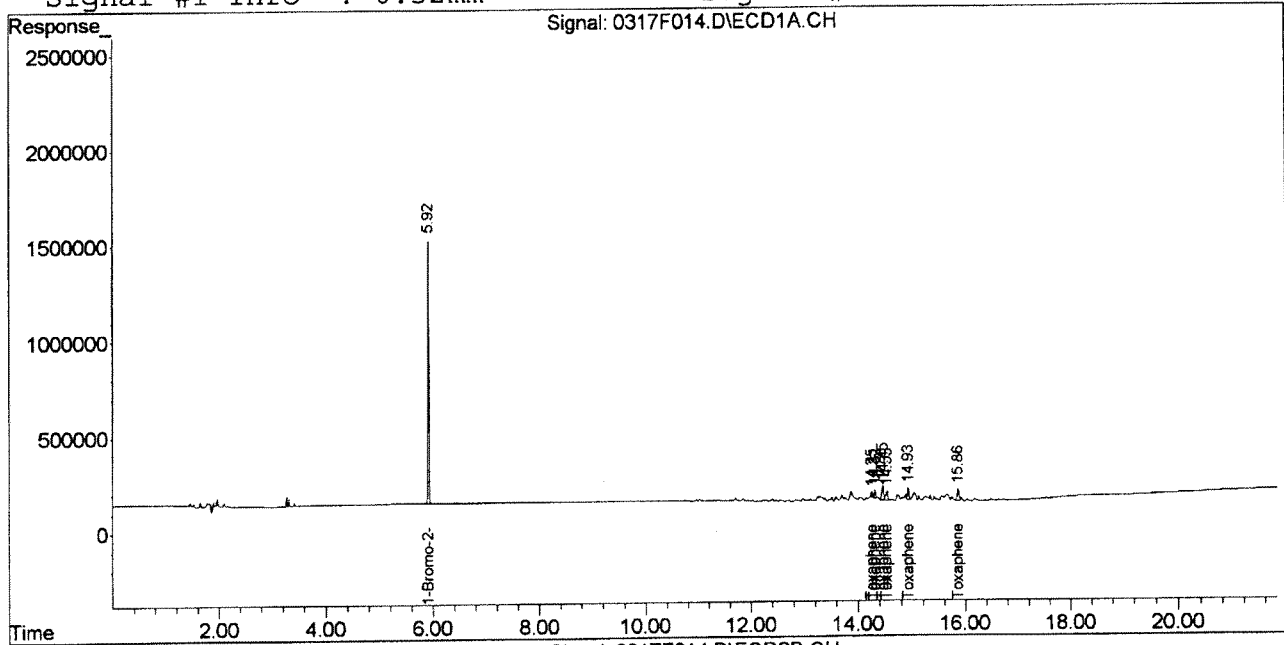
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
29) 1-Bromo-2-nitrob	5.92	5.39	1729348	638338	100.000	100.000
System Monitoring Compounds						
Target Compounds						
30) Toxaphene	14.25	12.99	53008	63539	475.678m	1129.850 #
31) Toxaphene {2}	14.31	13.08	82650	24938	517.421m	211.764 #
32) Toxaphene {3}	14.45	13.43	193164	32261	490.044	724.992 #
33) Toxaphene {4}	14.53	13.87	123620	38933	478.785	587.636
34) Toxaphene {5}	14.93	14.34	125980	73697	492.277	925.242 #
35) Toxaphene {6}	15.86	14.57	160981	53304	375.704	449.872m

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD1A.CH Vial: 82
Signal #2 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD2B.CH
Acq On : 17 Mar 2014 7:23 pm Operator: SMURRAY
Sample : TOX @ 500ppb GCPS7-77L Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:24 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration
DataAcq Meth : PESTNEW.M

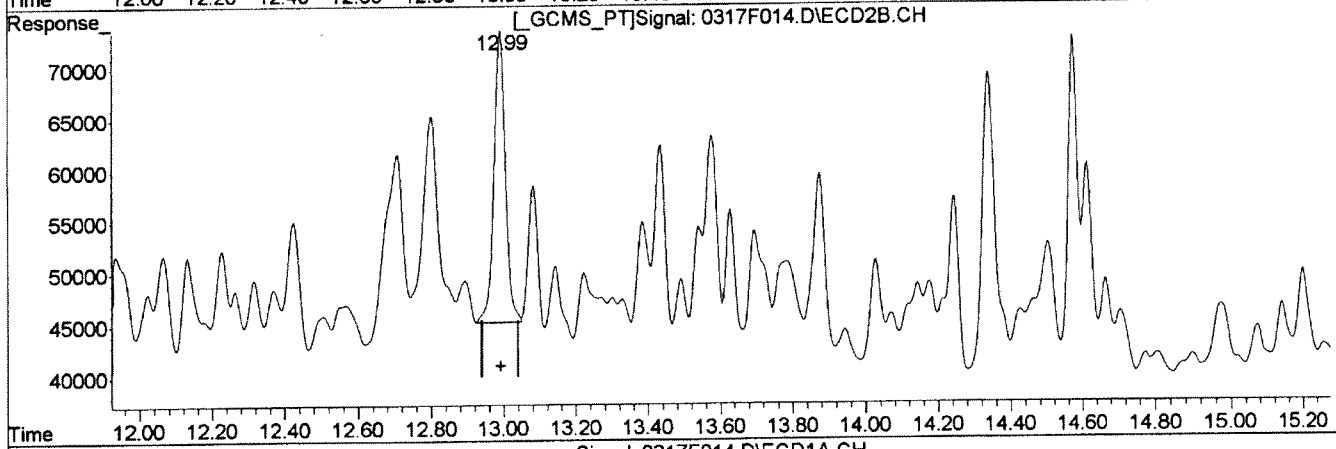
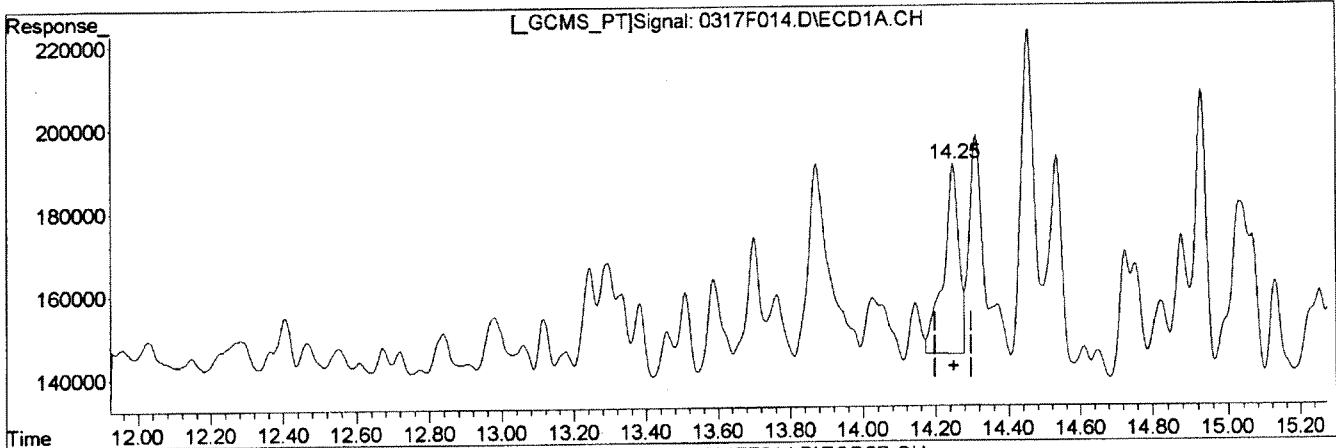
Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD1A.CH Vial: 82
Signal #2 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD2B.CH
Acq On : 17 Mar 2014 7:23 pm Operator: SMURRAY
Sample : TOX @ 500ppb GCPS7-77L Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F014.D\ECD1A.CH

Retention Time	Concentration	Response	Integration Status	Date
(30) Toxaphene			Manual Integration:	
14.25min	1215.650ug/L	135468	Before	
(30) Toxaphene #2				03/18/14
12.99min	1129.850ug/L	63539		

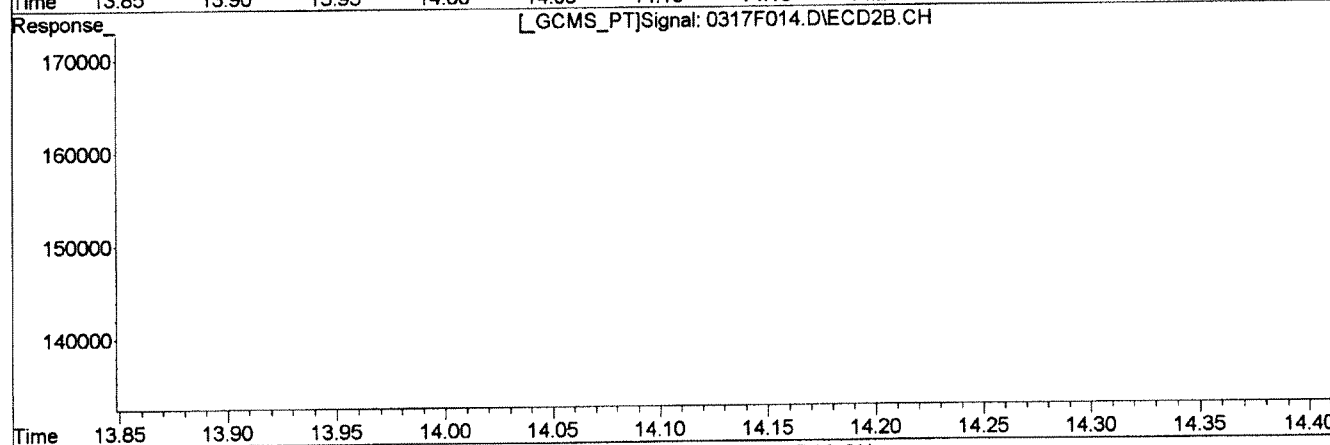
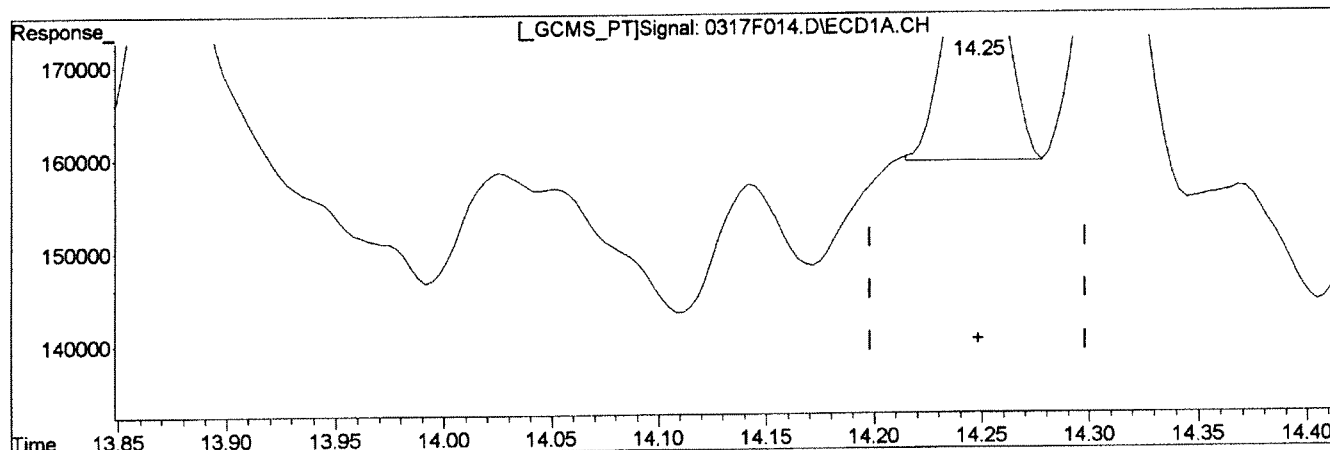
(+) = Expected Retention Time
0317F014.D GC23-031714-8081.M

Tue Mar 18 16:22:49 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD1A.CH Vial: 82
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:23 pm Operator: SMURRAY
 Sample : TOX @ 500ppb GCPS7-77L Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F014.D\ECD1A.CH

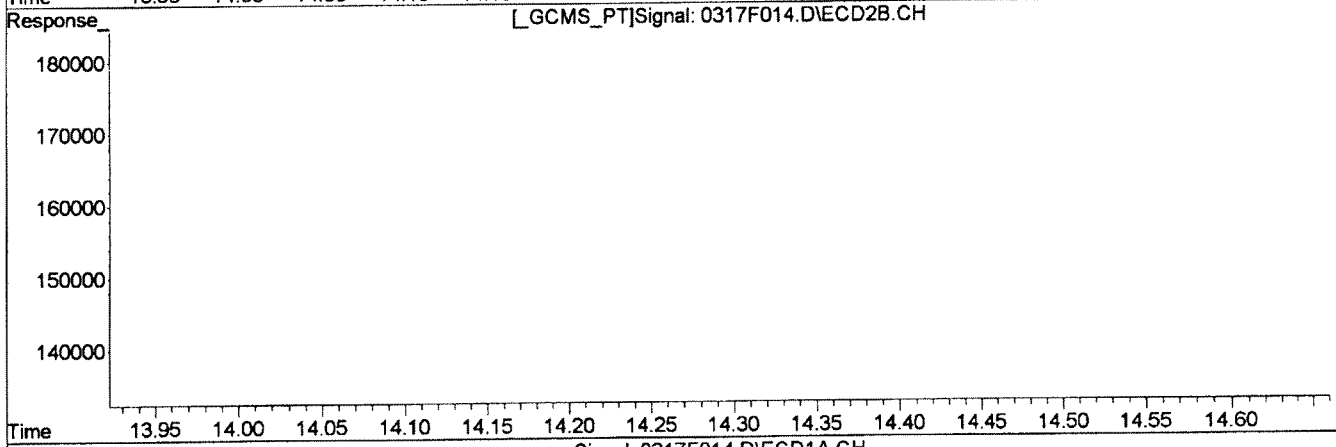
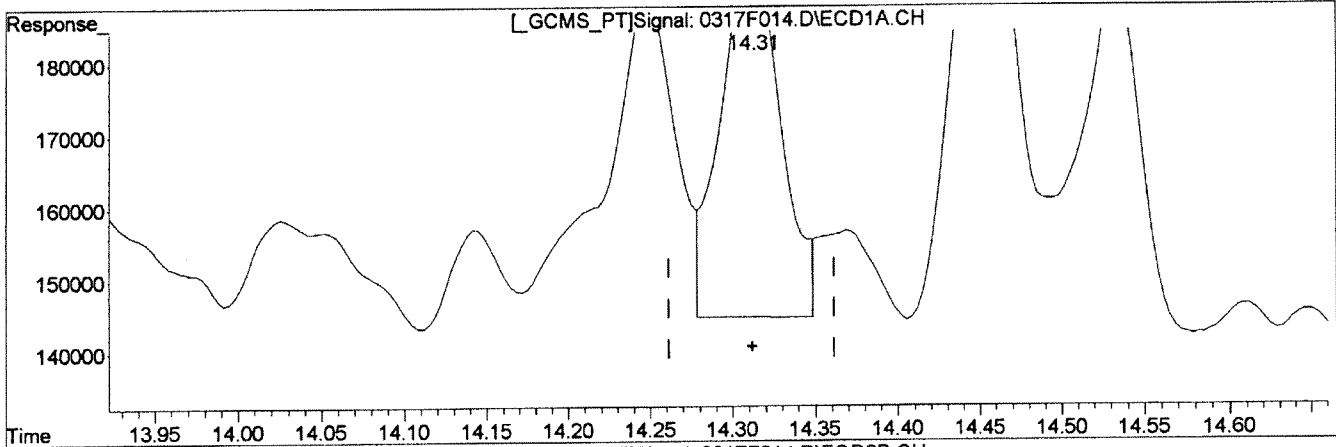
(30) Toxaphene	Manual Integration:
14.25min 475.678ug/L m	After
response 53008	Baseline/Shoulder
	03/18/14
(30) Toxaphene #2	
12.99min 1129.850ug/L	
response 63539	

(+) = Expected Retention Time
 0317F014.D GC23-031714-8081.M Tue Mar 18 16:22:58 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD1A.CH Vial: 82
Signal #2 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD2B.CH
Acq On : 17 Mar 2014 7:23 pm Operator: SMURRAY
Sample : TOX @ 500ppb GCPS7-77L Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F014.D\ECD1A.CH	
(31) Toxaphene (2)	Manual Integration:
14.31min 793.698ug/L	Before
response 126781	03/18/14
(31) Toxaphene (2) #2	
13.08min 211.764ug/L	
response 24938	

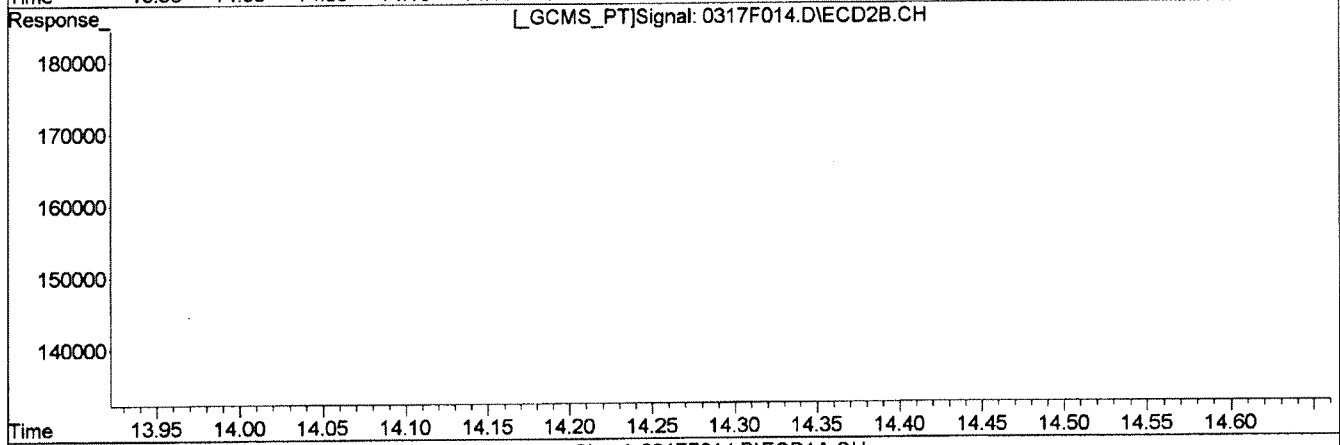
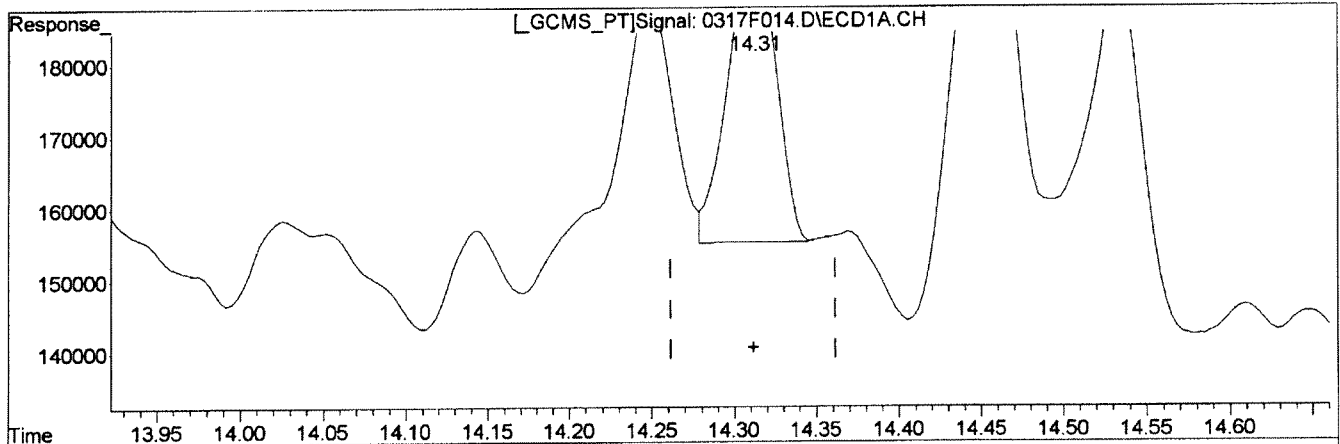
(+) = Expected Retention Time
0317F014.D GC23-031714-8081.M

Tue Mar 18 16:23:43 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD1A.CH Vial: 82
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:23 pm Operator: SMURRAY
 Sample : TOX @ 500ppb GCPS7-77L Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F014.D\ECD1A.CH

(31) Toxaphene (2)	Manual Integration:
14.31min 517.421ug/L m	After
response 82650	Baseline/Shoulder
	03/18/14
(31) Toxaphene (2) #2	
13.08min 211.764ug/L	
response 24938	

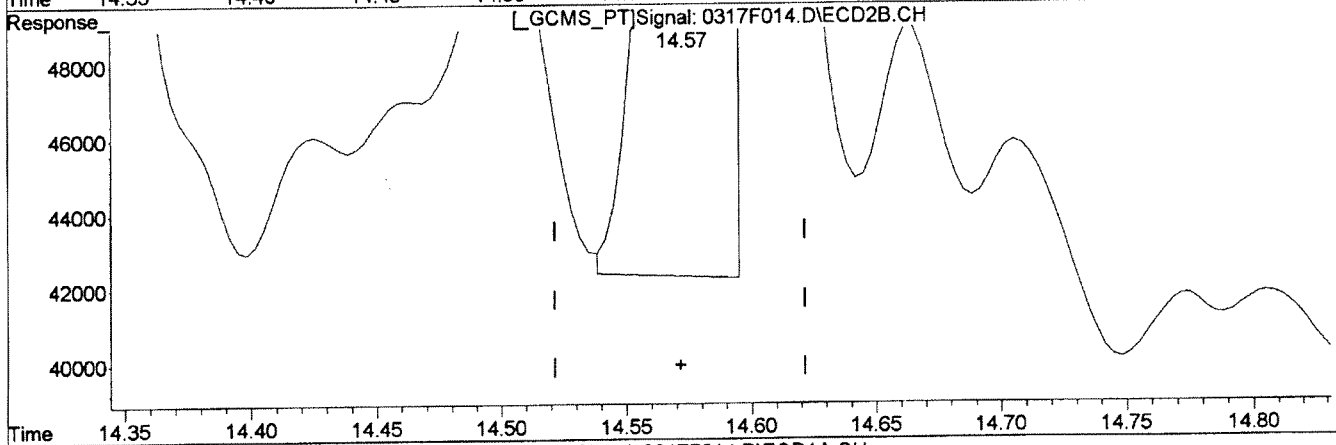
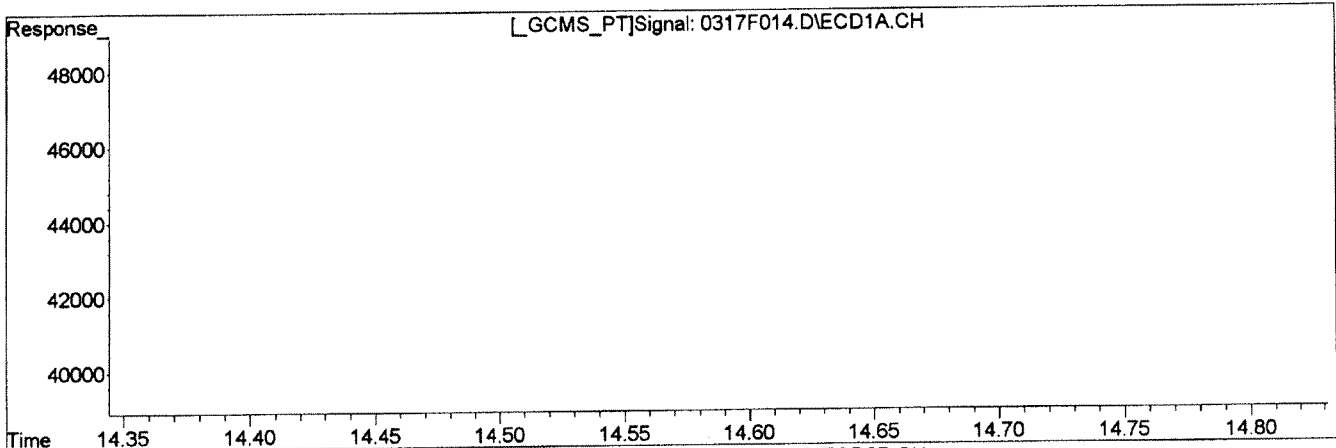
(+) = Expected Retention Time
 0317F014.D GC23-031714-8081.M

Tue Mar 18 16:23:48 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD1A.CH Vial: 82
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:23 pm Operator: SMURRAY
 Sample : TOX @ 500ppb GCPS7-77L Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F014.D\ECD1A.CH		Manual Integration:
(35) Toxaphene (6)	15.86min 375.704ug/L	Before
response 160981		03/18/14
(35) Toxaphene (6) #2	14.57min 466.844ug/L	
response 55315		

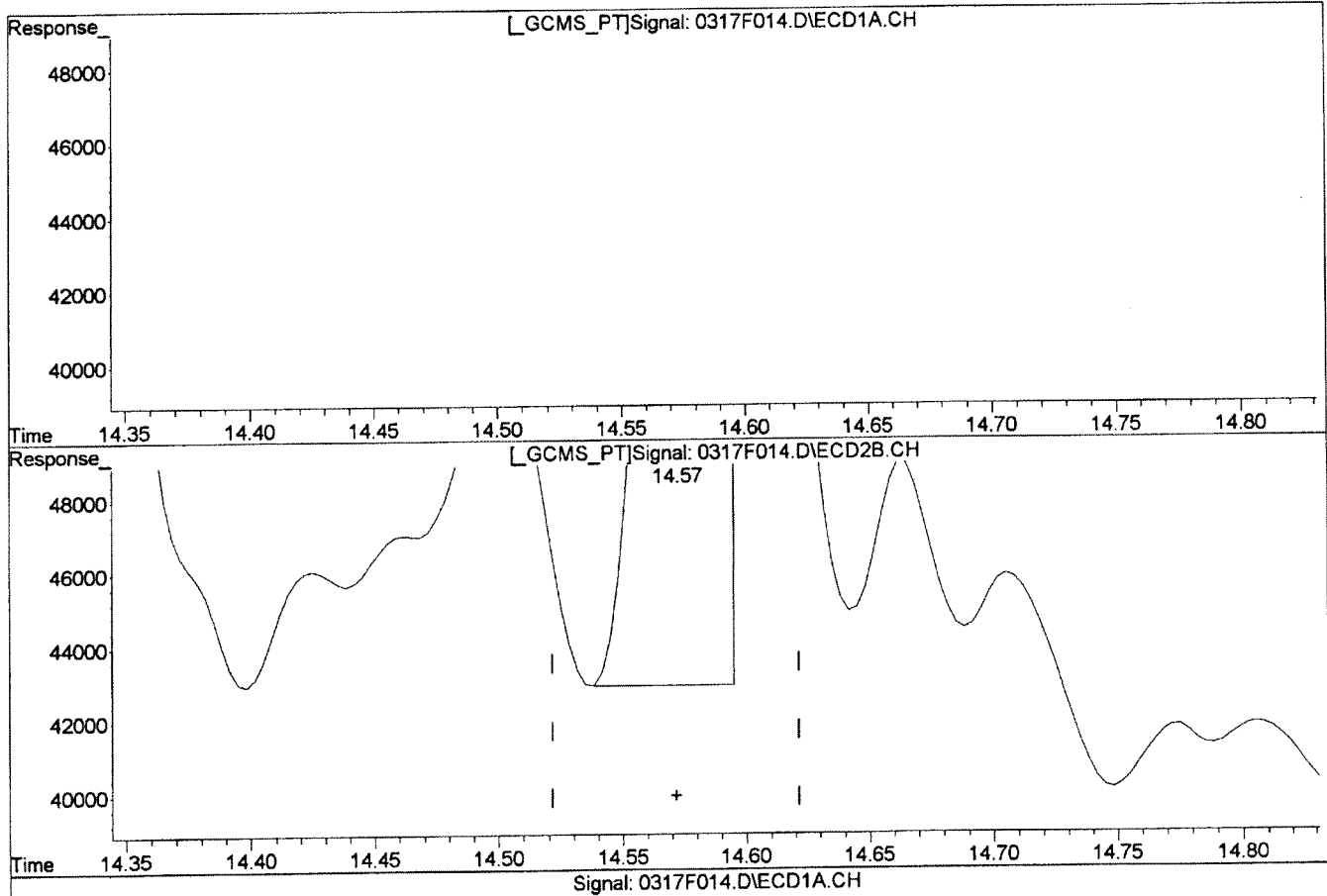
(+) = Expected Retention Time
 0317F014.D GC23-031714-8081.M

Tue Mar 18 16:23:56 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD1A.CH Vial: 82
Signal #2 : J:\GC23\DATA\031714ICAL\0317F014.D\ECD2B.CH
Acq On : 17 Mar 2014 7:23 pm Operator: SMURRAY
Sample : TOX @ 500ppb GCPS7-77L Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



(35) Toxaphene (6)
15.86min 375.704ug/L
response 160981

(35) Toxaphene (6) #2
14.57min 449.872ug/L m
response 53304

Manual Integration:
After
Baseline/Shoulder
03/18/14

(+) = Expected Retention Time
0317F014.D GC23-031714-8081.M

Tue Mar 18 16:24:02 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19:52 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
29) 1-Bromo-2-nitrob	5.92	5.39	1748354	645238	100.000	100.000
System Monitoring Compounds						
Target Compounds						
30) Toxaphene	14.24	12.99	110712	119220	982.697m	2097.298 #
31) Toxaphene {2}	14.31	13.08	160860	47114	996.099m	395.796 #
32) Toxaphene {3}	14.45	13.43	360068	62642	903.539m	1392.682m#
33) Toxaphene {4}	14.53	13.87	253629	78444	971.637m	1171.334m
34) Toxaphene {5}	14.92	14.33	253355	147981	979.243m	1837.987 #
35) Toxaphene {6}	15.86	14.57	334271	108127	771.655m	902.805m

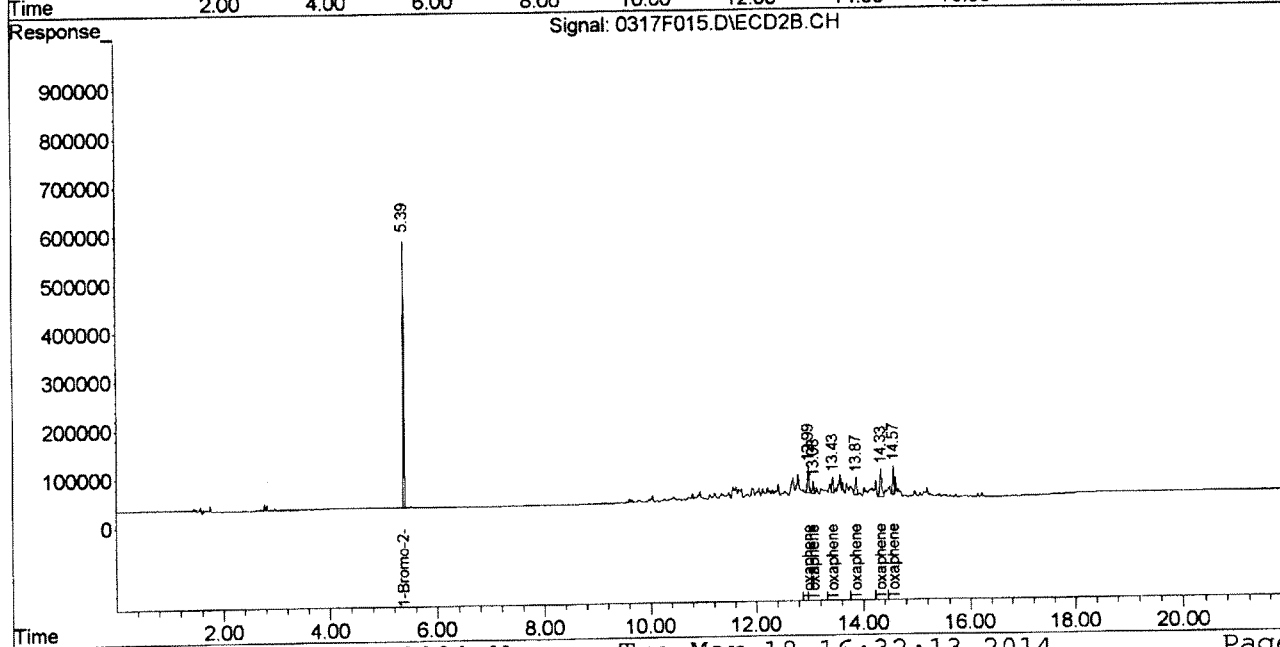
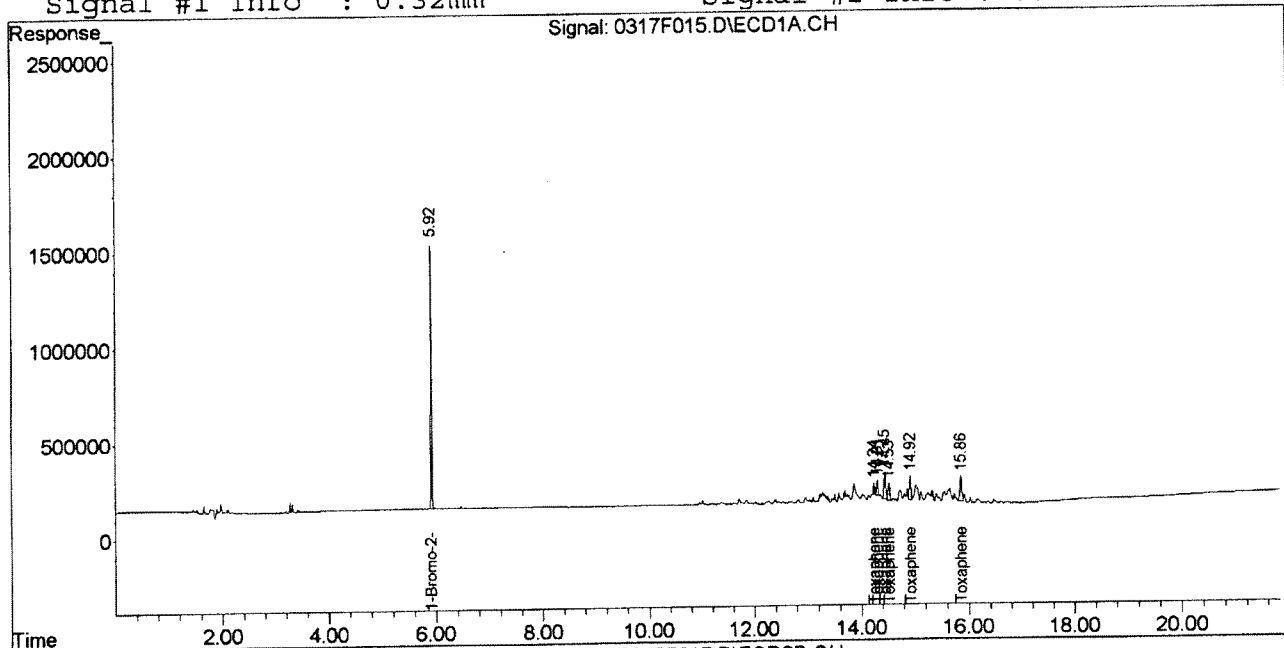
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
 0317F015.D GC23-031714-8081.M Tue Mar 18 16:32:12 2014 Page 1

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:25 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration
DataAcq Meth : PESTNEW.M

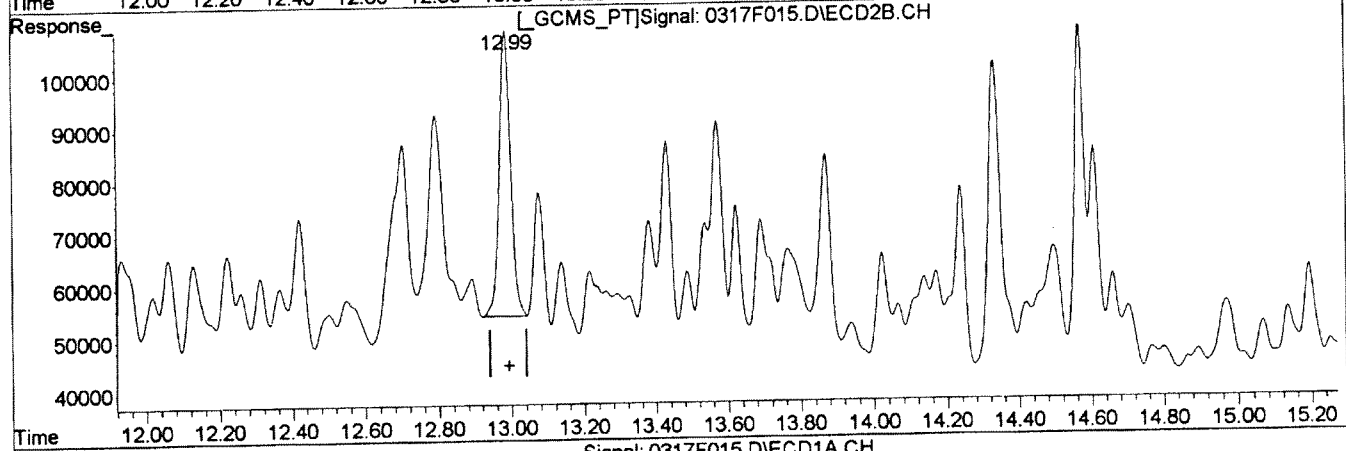
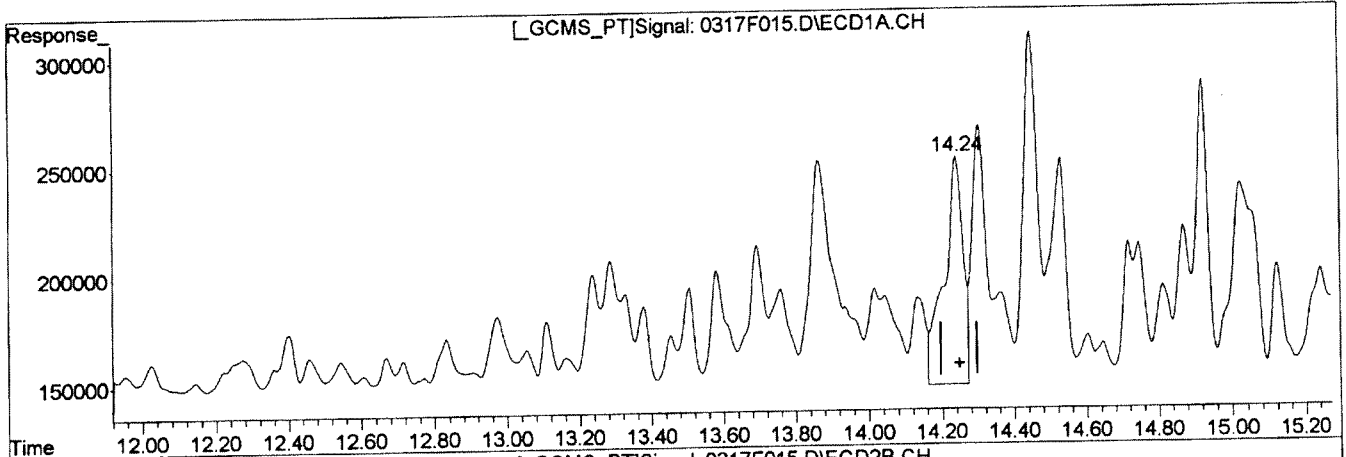
Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.24min 3389.041ug/L	Before
response 381814	03/18/14
(30) Toxaphene #2	
12.99min 2097.298ug/L	
response 119220	

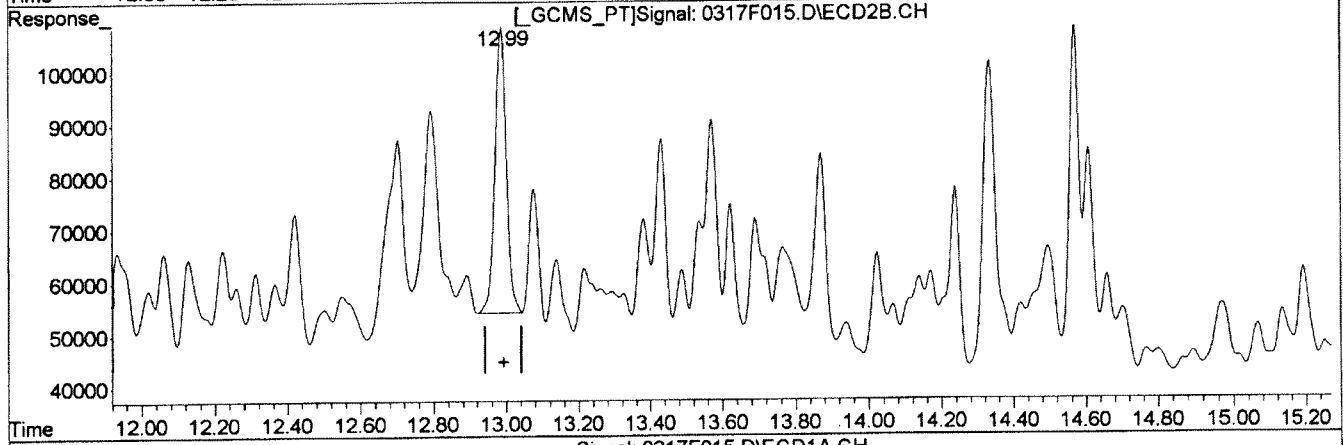
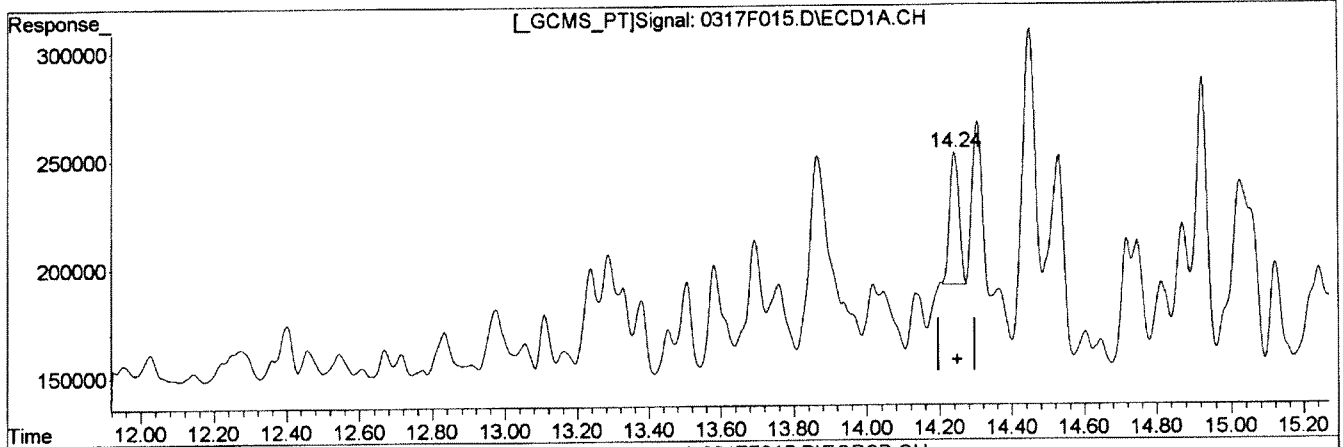
(+) = Expected Retention Time
 0317F015.D GC23-031714-8081.M

Tue Mar 18 16:24:24 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Integration Status	Date
14.24	982.697	110712	Manual Integration: After Baseline/Shoulder	03/18/14
12.99	2097.298	119220		

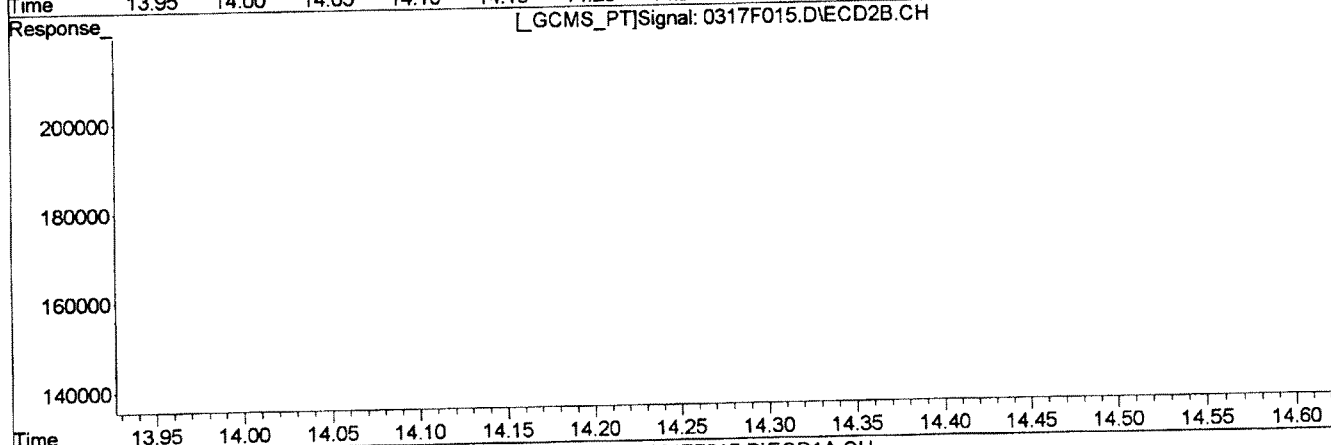
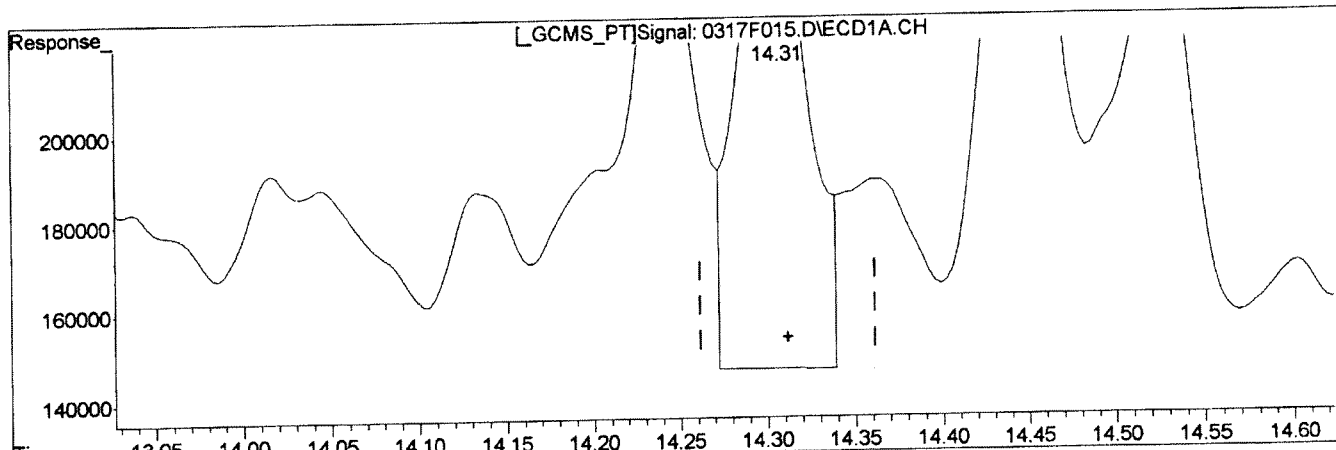
(+) = Expected Retention Time
0317F015.D GC23-031714-8081.M

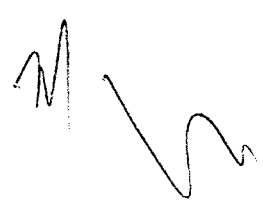
Tue Mar 18 16:24:30 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH	
(31) Toxaphene {2}	Manual Integration:
14.31min 1948.195ug/L	Before
response 314614	03/18/14
(31) Toxaphene {2} #2	
13.08min 395.796ug/L	
response 47114	

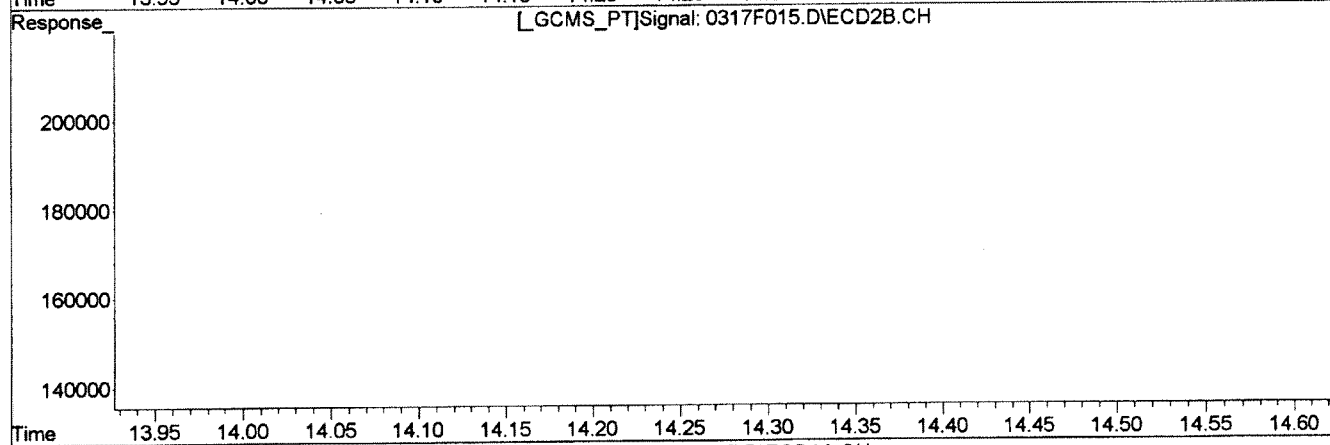
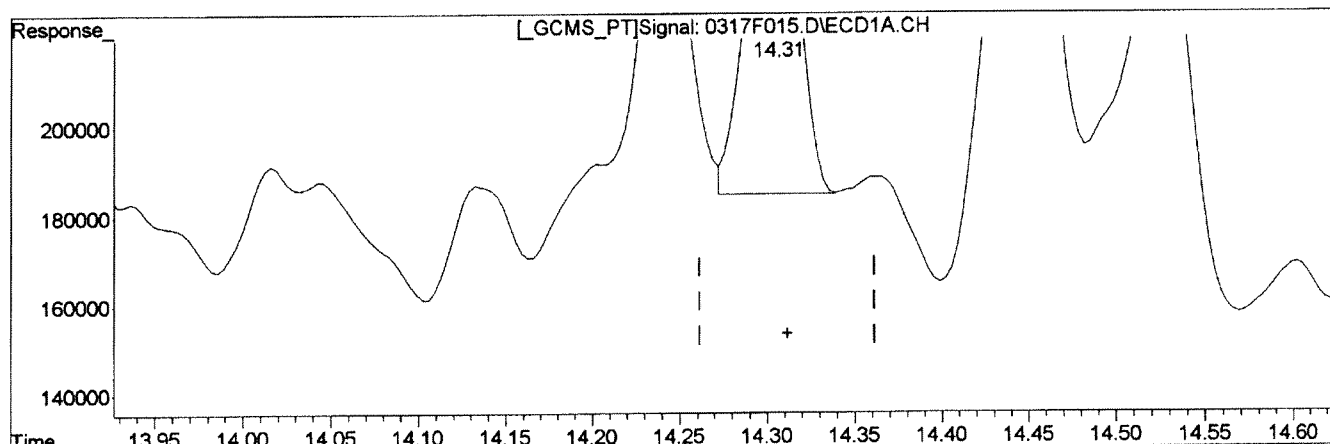
(+) = Expected Retention Time
0317F015.D GC23-031714-8081.M

Tue Mar 18 16:24:32 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH		
(31) Toxaphene {2}	Manual Integration:	
14.31min 996.099ug/L m	After	
response 160860	Baseline/Shoulder	
	03/18/14	
(31) Toxaphene {2} #2		
13.08min 395.796ug/L		
response 47114		

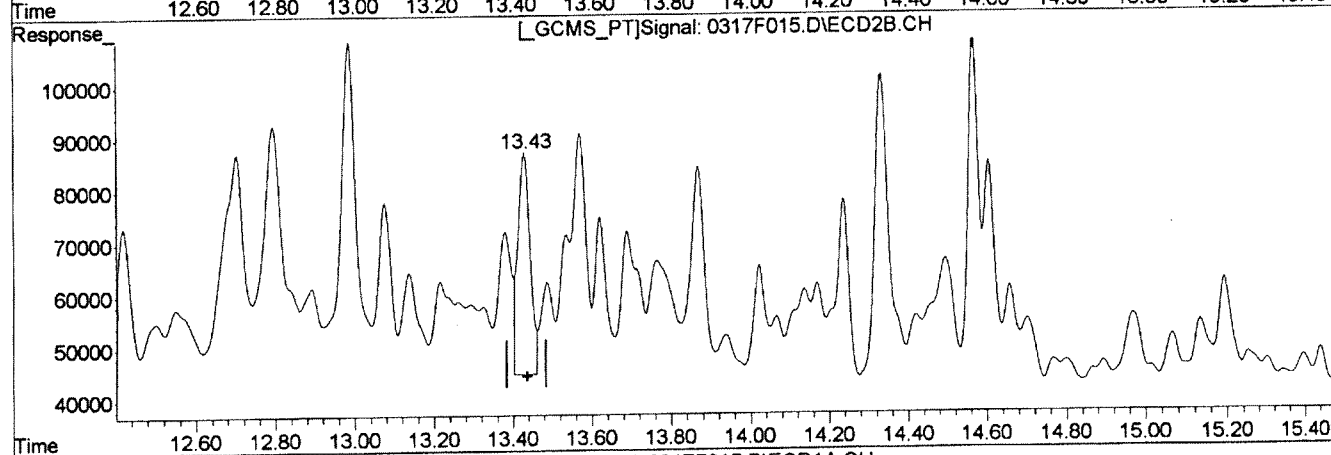
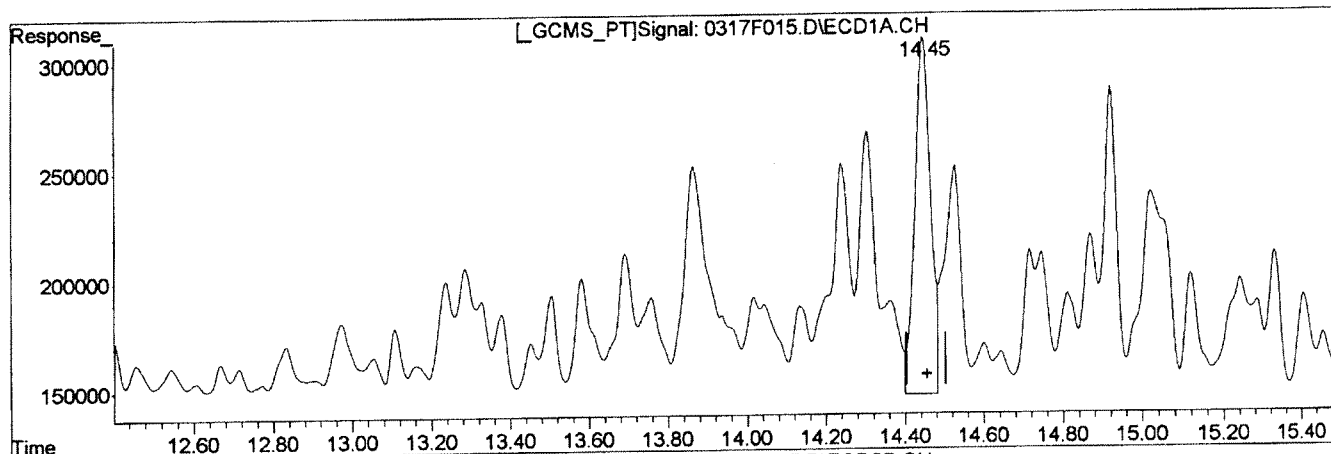
(+) = Expected Retention Time
 0317F015.D GC23-031714-8081.M

Tue Mar 18 16:24:38 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH

(32) Toxaphene {3}	Manual Integration:
14.45min 1139.142ug/L	Before
response 453958	03/18/14
(32) Toxaphene {3} #2	
13.43min 2026.773ug/L	
response 91163	

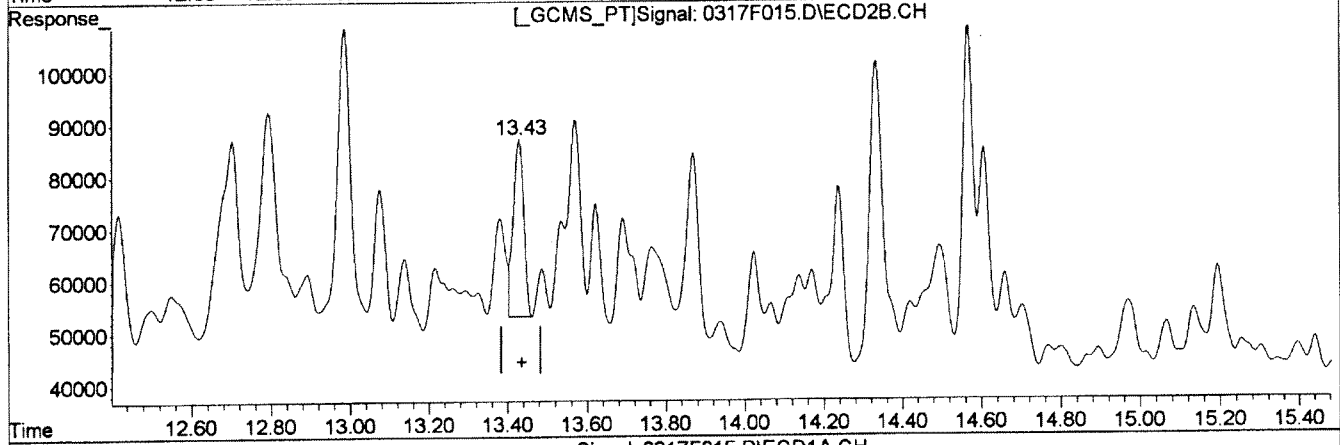
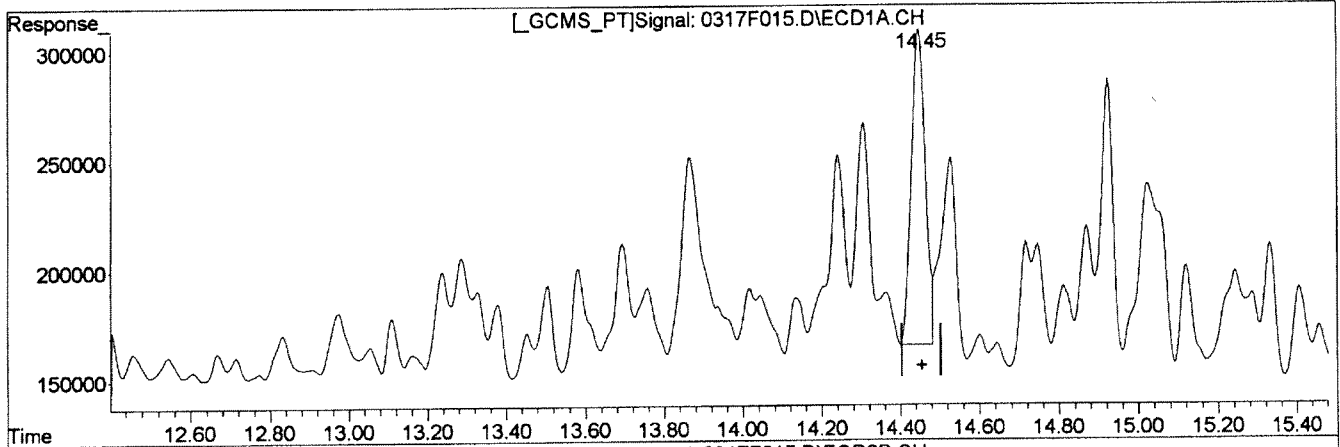
(+) = Expected Retention Time
 0317F015.D GC23-031714-8081.M

Tue Mar 18 16:24:40 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH		Manual Integration:
(32) Toxaphene {3}		After
14.45min	903.539ug/L m	Baseline/Shoulder
response	360068	03/18/14
(32) Toxaphene {3} #2		
13.43min	1392.682ug/L m	
response	62642	

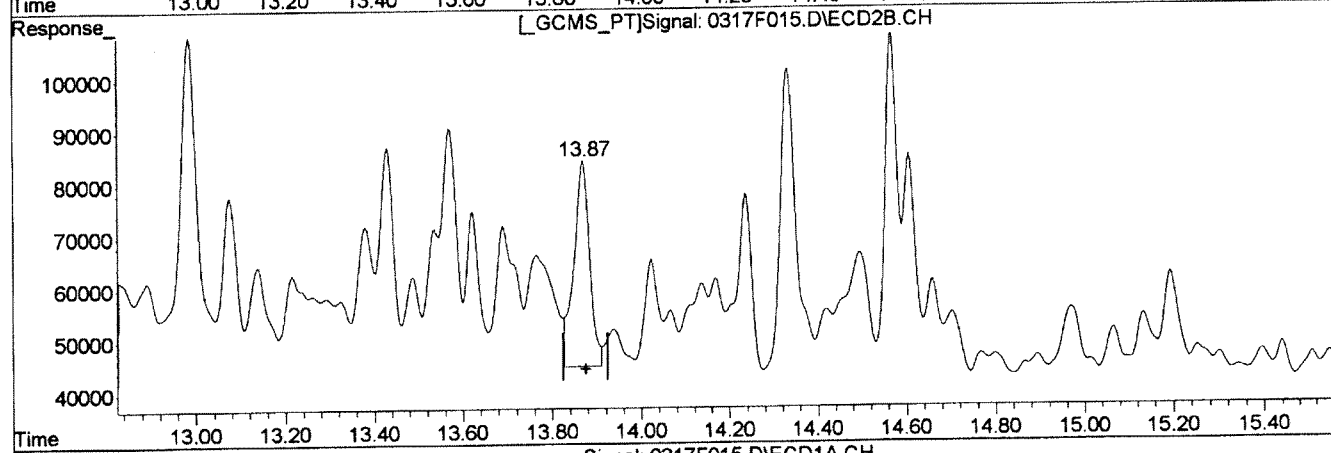
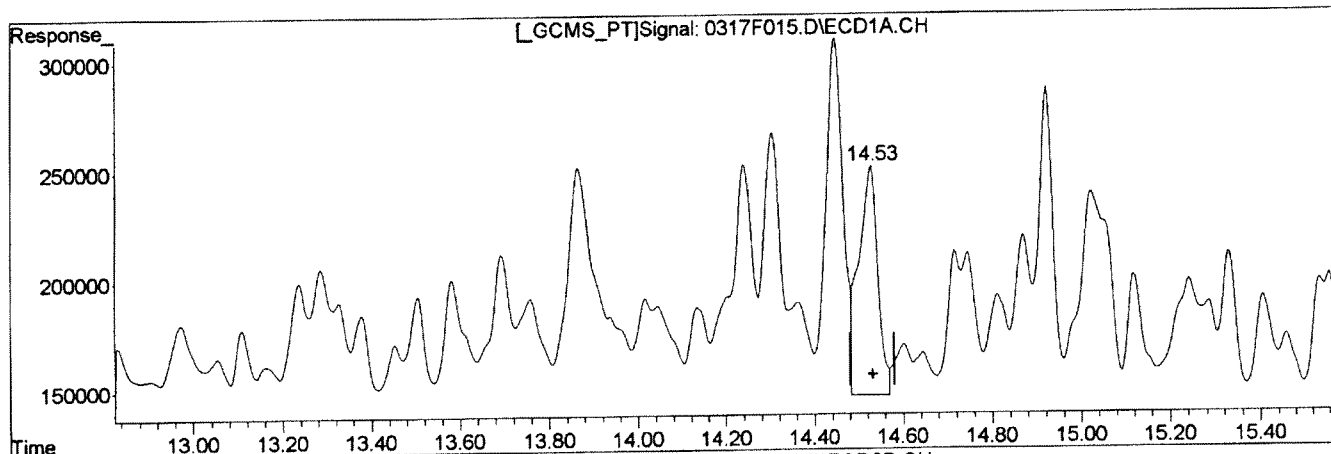
(+) = Expected Retention Time
 0317F015.D GC23-031714-8081.M

Tue Mar 18 16:24:52 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH

(33) Toxaphene (4)	Manual Integration:
14.53min 1207.998ug/L	Before
response 315327	03/18/14
(33) Toxaphene (4) #2	
13.87min 1445.936ug/L	
response 96834	

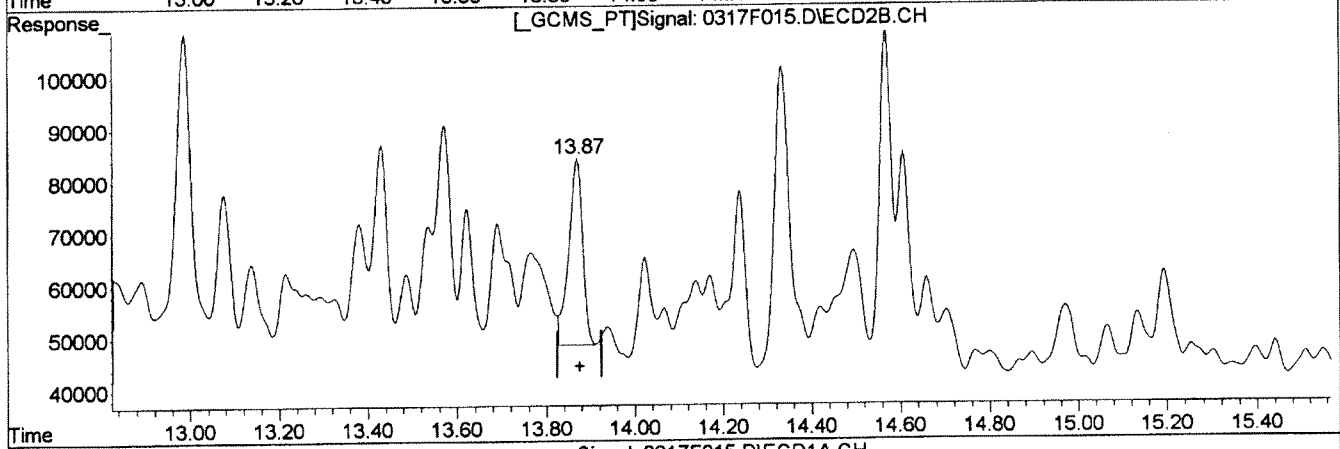
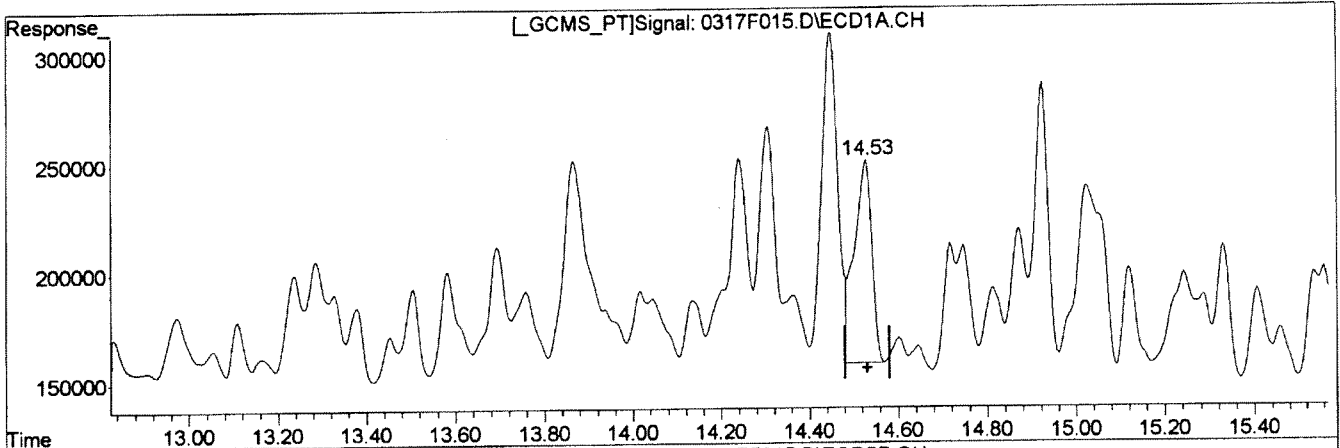
(+) = Expected Retention Time
 0317F015.D GC23-031714-8081.M

Tue Mar 18 16:24:53 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH

Retention Time	Concentration	Response	Integration Status	Date
(33) Toxaphene (4)	14.53min 971.637ug/L m	253629	Manual Integration: After Baseline/Shoulder	03/18/14
(33) Toxaphene (4) #2	13.87min 1171.334ug/L m	78444		

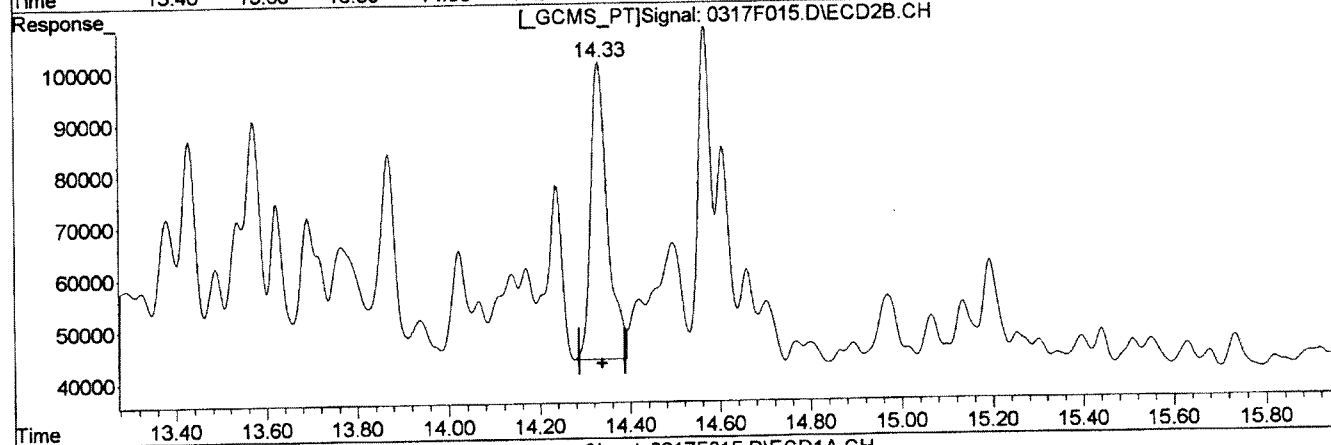
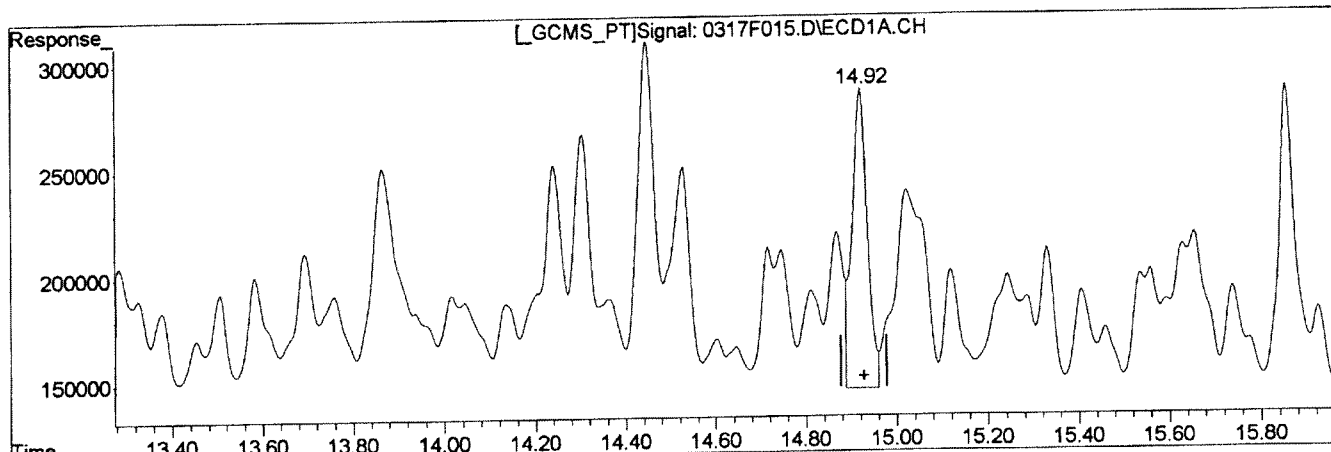
(+) = Expected Retention Time
0317F015.D GC23-031714-8081.M

Tue Mar 18 16:25:07 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH

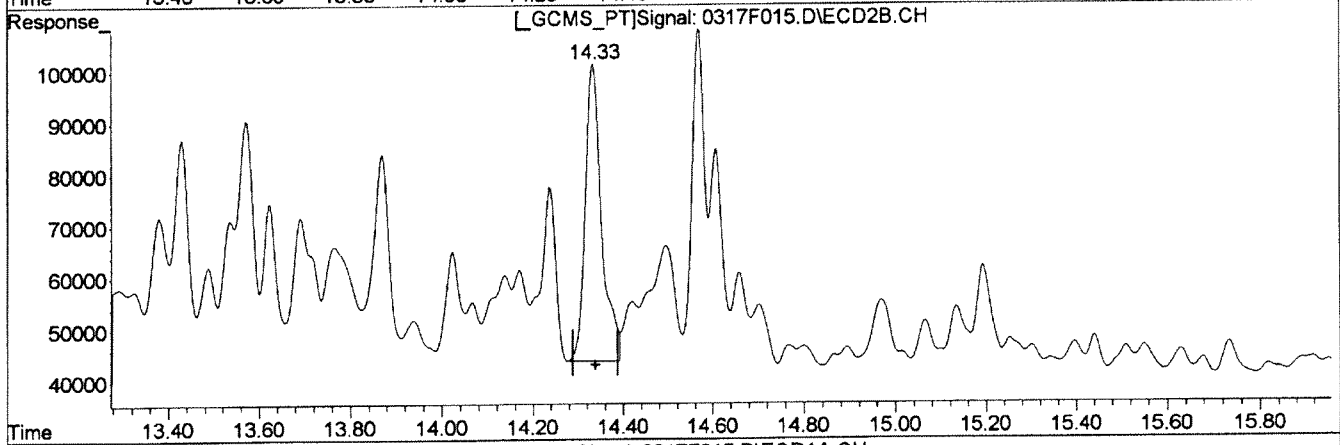
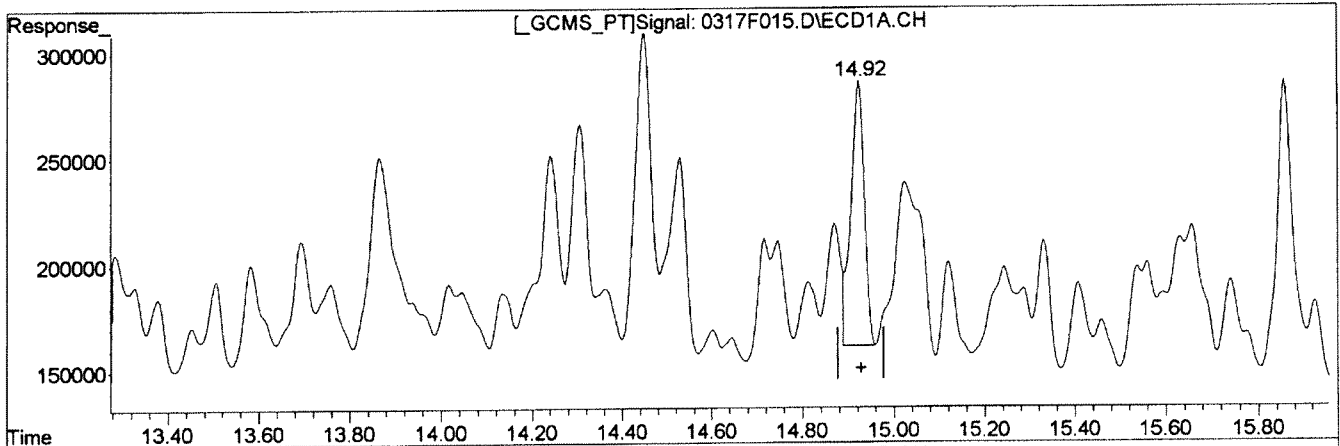
(34) Toxaphene (5)	Manual Integration:
14.92min 1245.030ug/L	Before
response 322121	03/18/14
(34) Toxaphene (5) #2	<i>SM</i>
14.33min 1837.987ug/L	<i>[Signature]</i>
response 147981	

(+) = Expected Retention Time
 0317F015.D GC23-031714-8081.M Tue Mar 18 16:25:08 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH		Manual Integration:
(34) Toxaphene (5)		After
14.92min 979.243ug/L m		Baseline/Shoulder
response 253355		03/18/14
(34) Toxaphene (5) #2		
14.33min 1837.987ug/L		
response 147981		

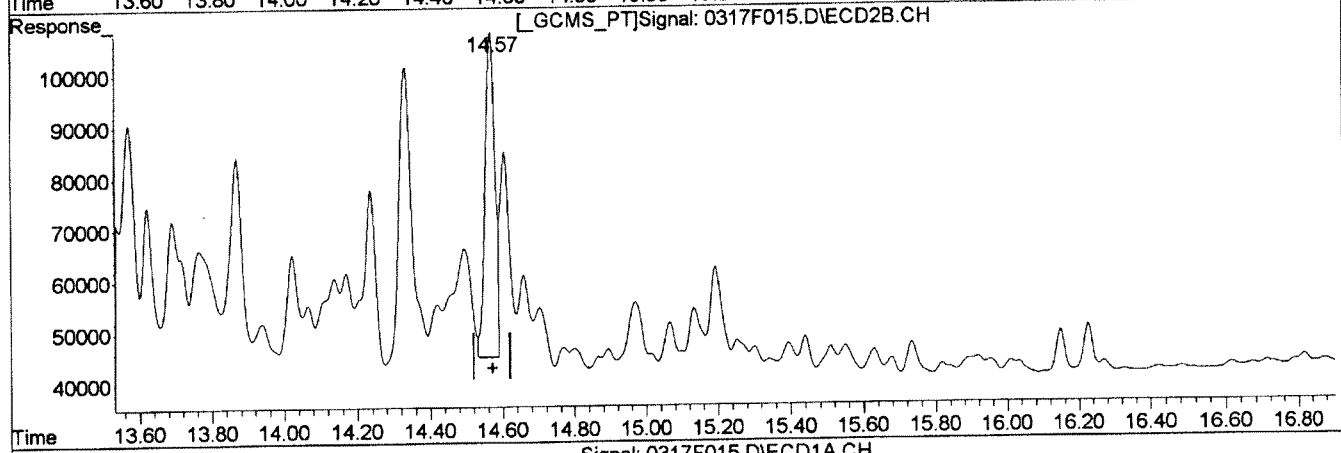
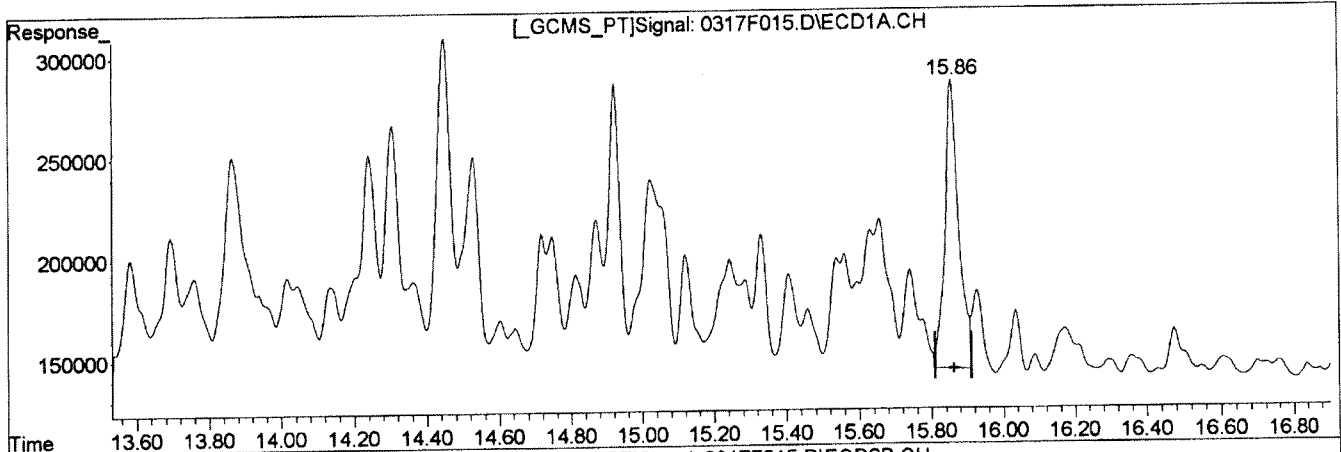
(+) = Expected Retention Time
 0317F015.D GC23-031714-8081.M

Tue Mar 18 16:25:13 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH	
(35) Toxaphene (6)	Manual Integration:
15.86min 874.290ug/L	Before
response 378731	03/18/14
(35) Toxaphene (6) #2	
14.57min 1008.276ug/L	
response 120759	

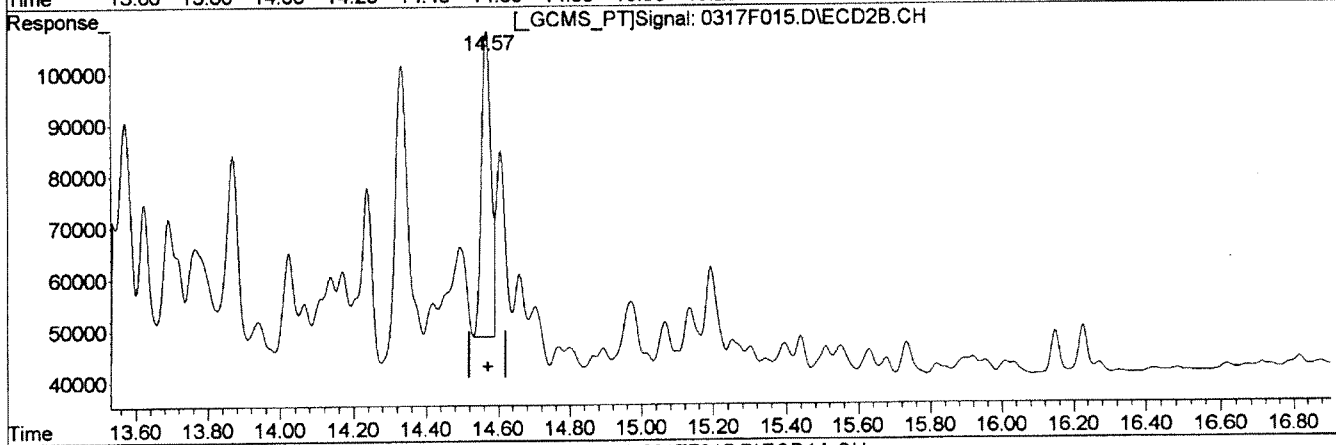
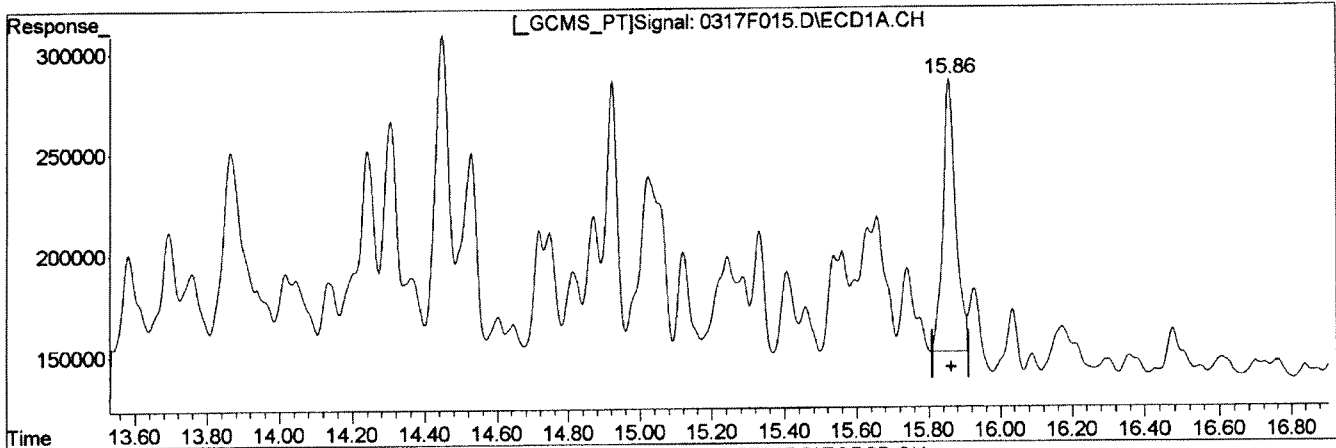
(+) = Expected Retention Time
0317F015.D GC23-031714-8081.M

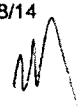

Tue Mar 18 16:25:14 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD1A.CH Vial: 83
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F015.D\ECD2B.CH
 Acq On : 17 Mar 2014 7:51 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F015.D\ECD1A.CH		Manual Integration:
(35) Toxaphene (6)		After
15.86min 771.655ug/L m		Baseline/Shoulder
response 334271		03/18/14
(35) Toxaphene (6) #2		
14.57min 902.805ug/L m		
response 108127		

(+) = Expected Retention Time
 0317F015.D GC23-031714-8081.M

Tue Mar 18 16:25:24 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
 Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19:54 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
29) 1-Bromo-2-nitrob	5.92	5.39	1746693	645648	100.000	100.000
System Monitoring Compounds						
Target Compounds						
30) Toxaphene	14.25	12.99	217033	237699	1928.251m	4178.905m#
31) Toxaphene {2}	14.31	13.08	315114	93309	1953.147m	783.374m#
32) Toxaphene {3}	14.45	13.43	723522	122249	1817.301	2716.163m#
33) Toxaphene {4}	14.53	13.87	462647	153705	1774.058	2293.682m#
34) Toxaphene {5}	14.93	14.34	491173	288553	1900.238	3581.675m#
35) Toxaphene {6}	15.86	14.57	676576	200522	1563.342m	1673.193m

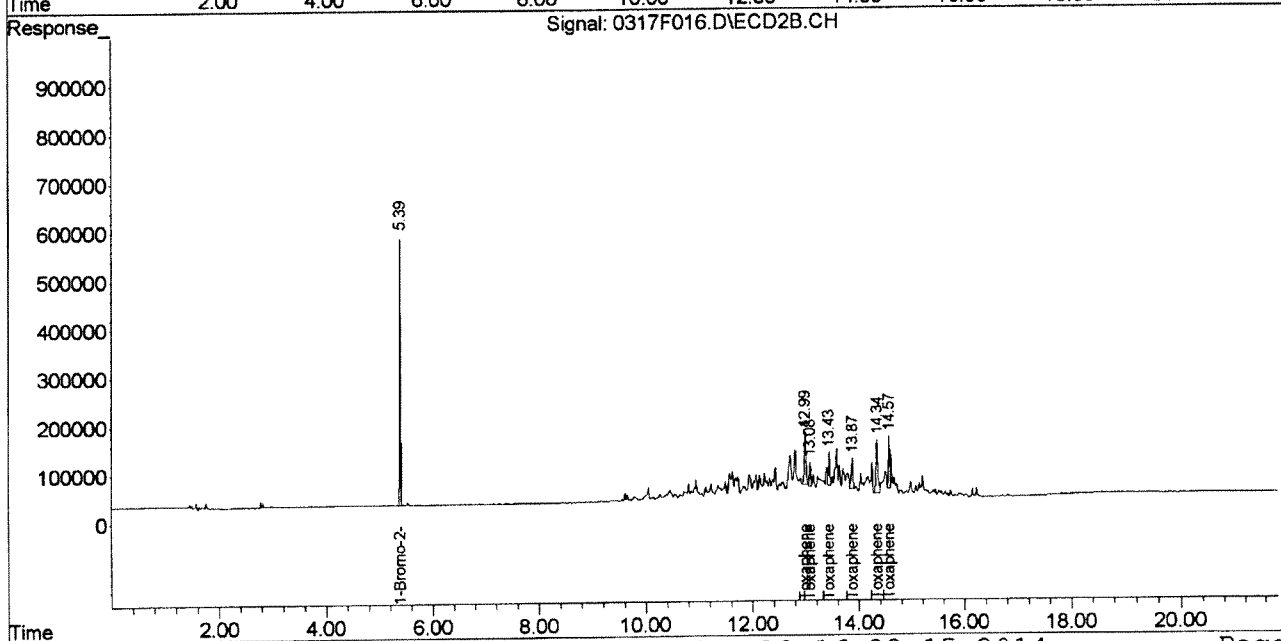
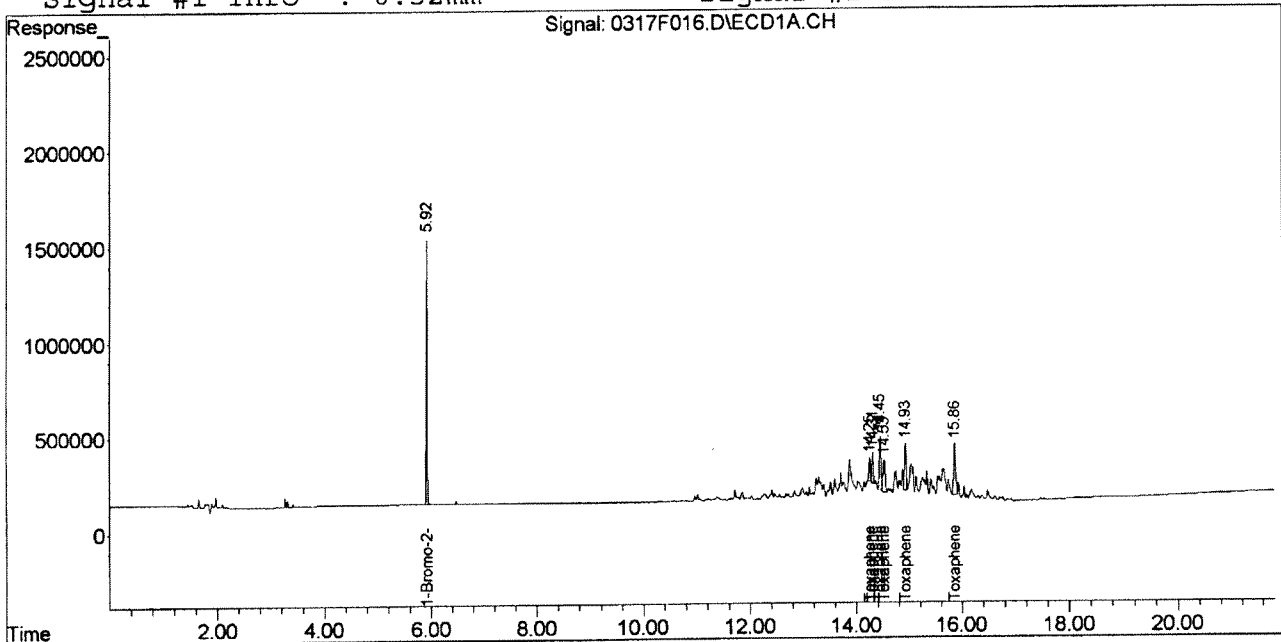
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
 0317F016.D GC23-031714-8081.M Tue Mar 18 16:32:15 2014 Page 1

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:26 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration
DataAcq Meth : PESTNEW.M

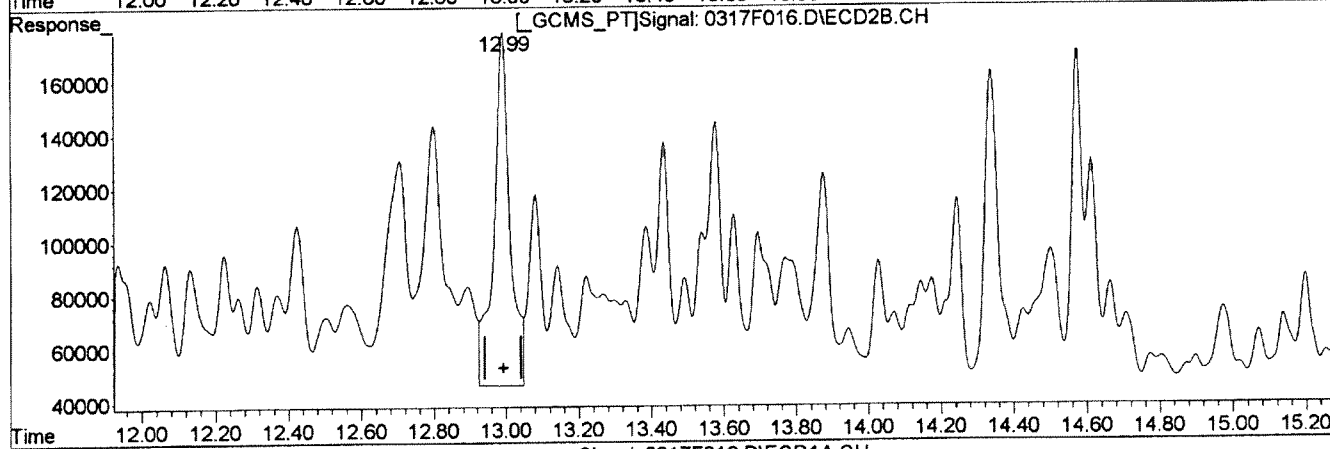
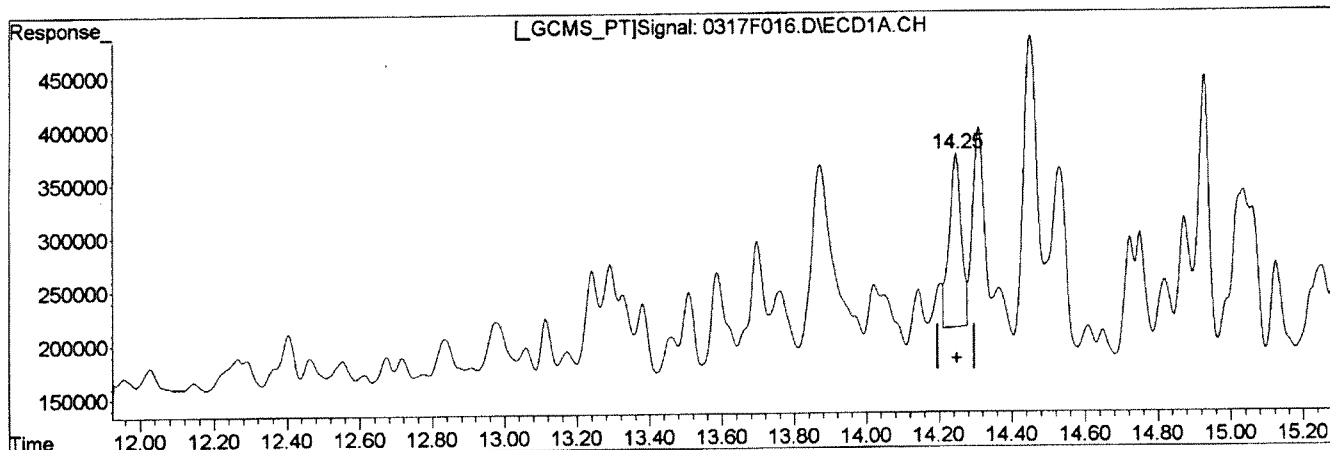
Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
 Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F016.D\ECD1A.CH		Manual Integration:
(30) Toxaphene		Before
14.25min 3323.968ug/L		
response 374127		03/18/14
(30) Toxaphene #2		
12.99min 7321.501ug/L		
response 416452		

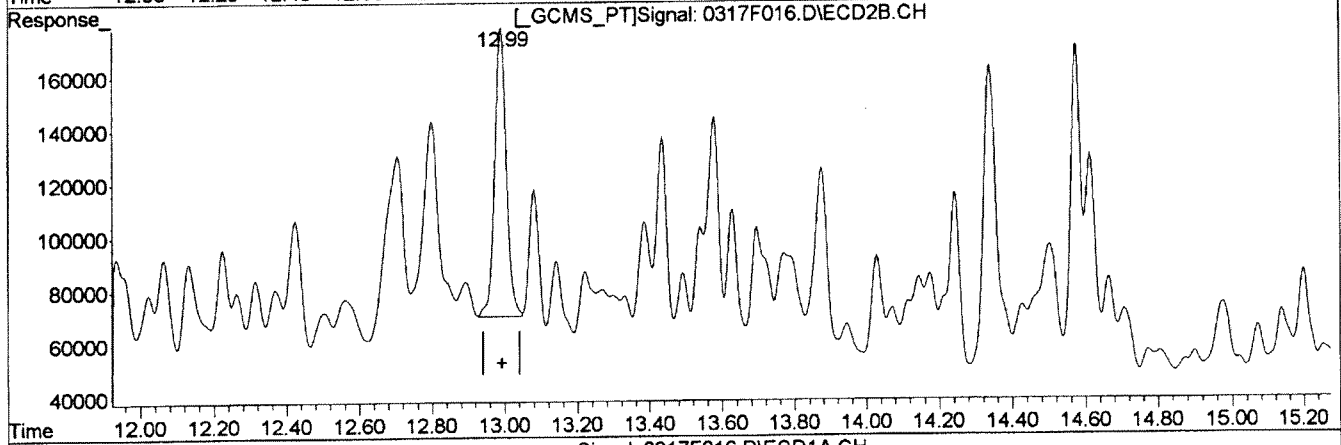
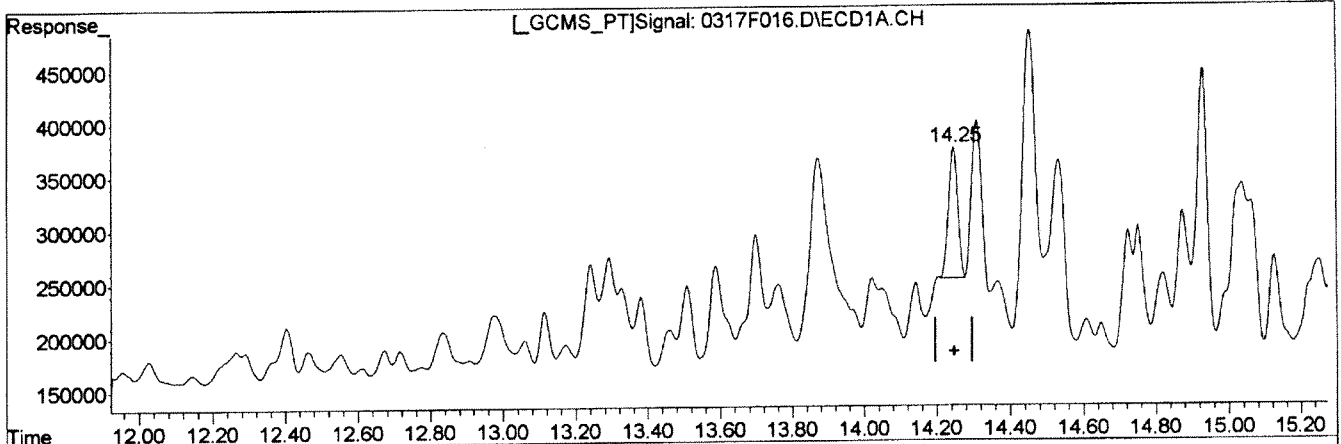
(+) = Expected Retention Time
 0317F016.D GC23-031714-8081.M

Tue Mar 18 16:25:45 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
 Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F016.D\ECD1A.CH		Manual Integration:
(30) Toxaphene		After
14.25min 1928.251ug/L m		Baseline/Shoulder
response 217033		03/18/14
(30) Toxaphene #2		
12.99min 4178.905ug/L m		
response 237699		

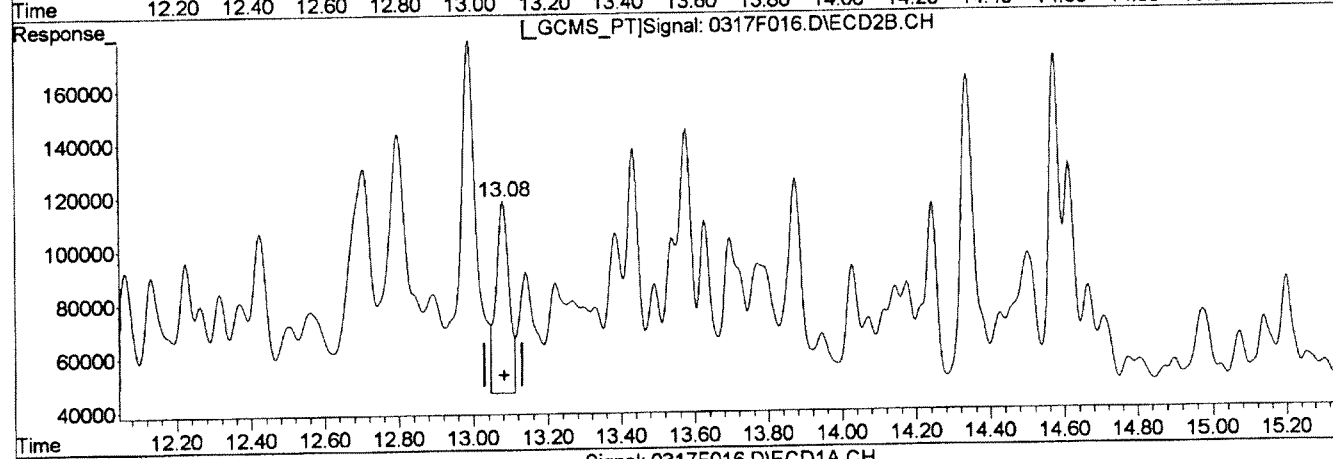
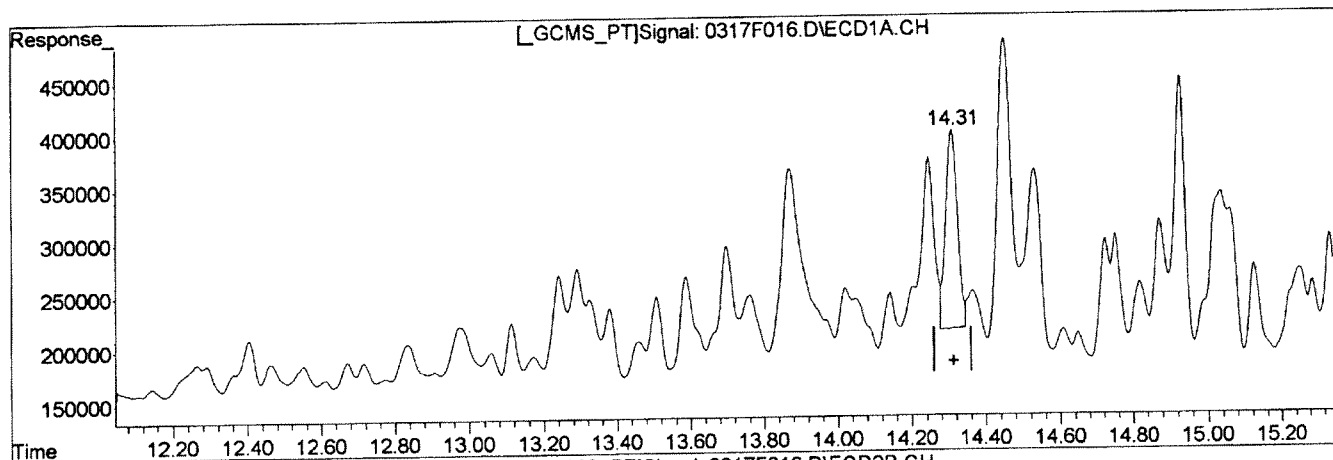
(+) = Expected Retention Time
 0317F016.D GC23-031714-8081.M

Tue Mar 18 16:25:55 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F016.D\ECD1A.CH

Retention Time	Concentration	Response	Integration Status
(31) Toxaphene (2) 14.31min	2545.957ug/L	410756	Manual Integration: Before
(31) Toxaphene (2) #2 13.08min	1433.940ug/L	170799	03/18/14

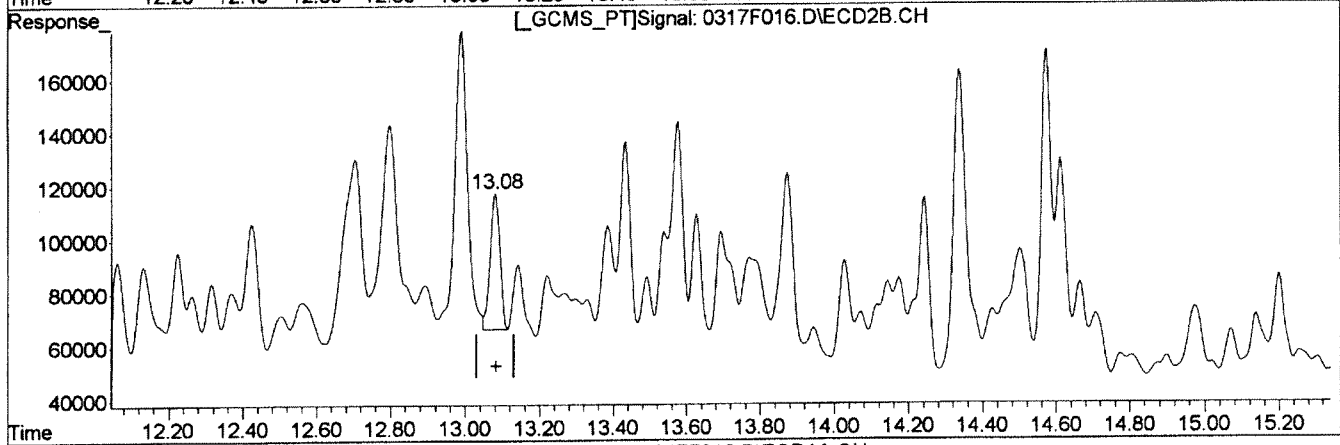
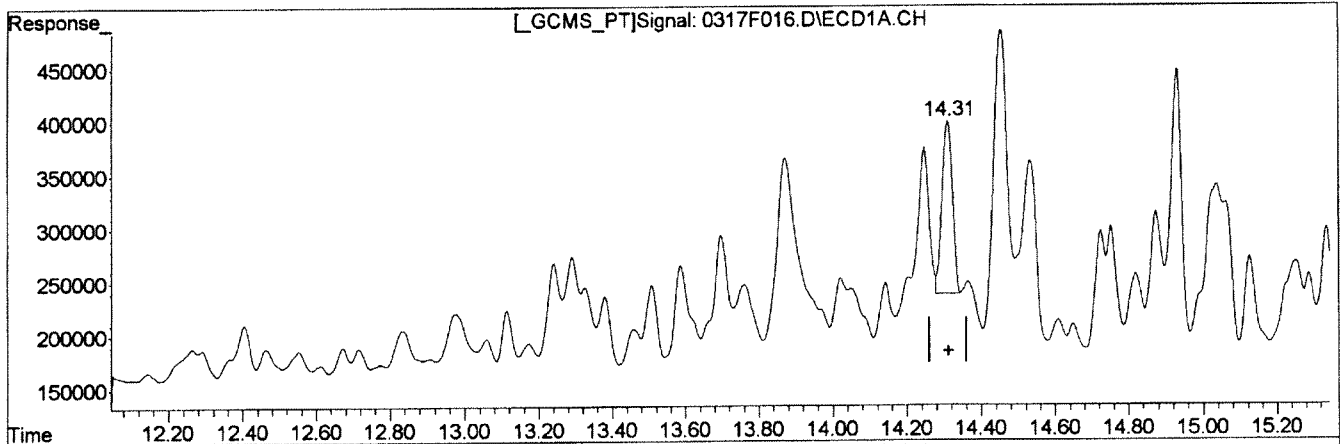
(+) = Expected Retention Time
0317F016.D GC23-031714-8081.M

Tue Mar 18 16:25:57 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
 Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F016.D\ECD1A.CH		Manual Integration:
(31) Toxaphene (2)		After
14.31min 1953.147ug/L m		Baseline/Shoulder
response 315114		03/18/14
(31) Toxaphene (2) #2		
13.08min 783.374ug/L m		
response 93309		

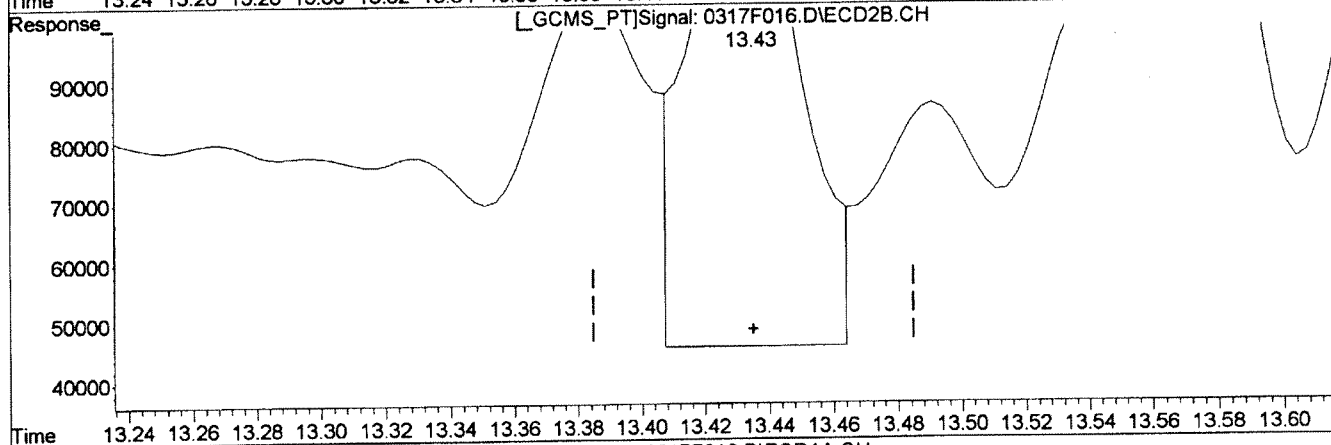
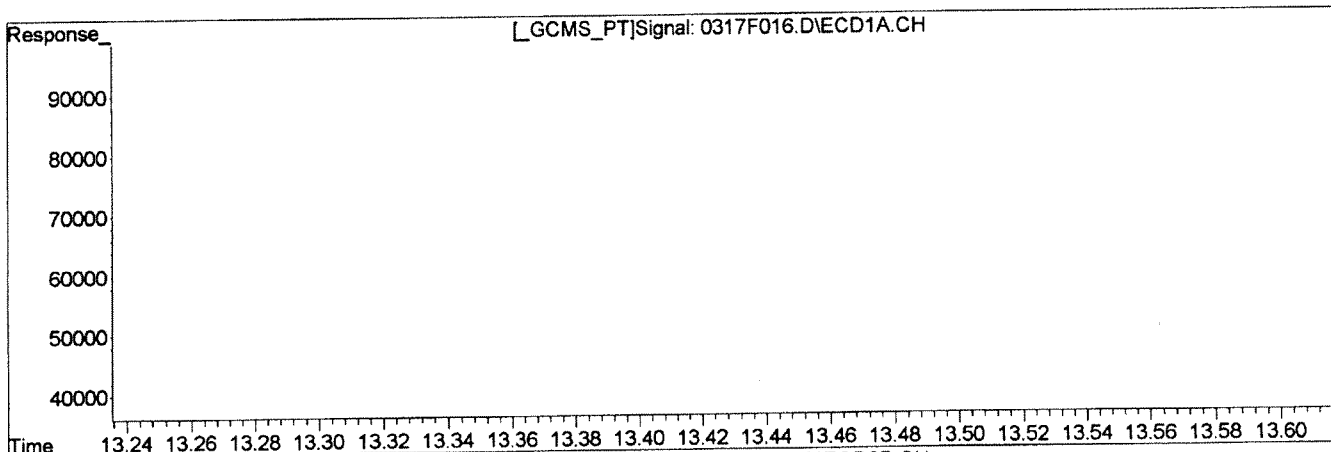
(+) = Expected Retention Time
 0317F016.D GC23-031714-8081.M

Tue Mar 18 16:26:08 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
 Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F016.D\ECD1A.CH		Manual Integration:
(32) Toxaphene (3)		Before
14.45min 1817.301ug/L		
response 723522		03/18/14
(32) Toxaphene (3) #2		
13.43min 4437.880ug/L		
response 199740		

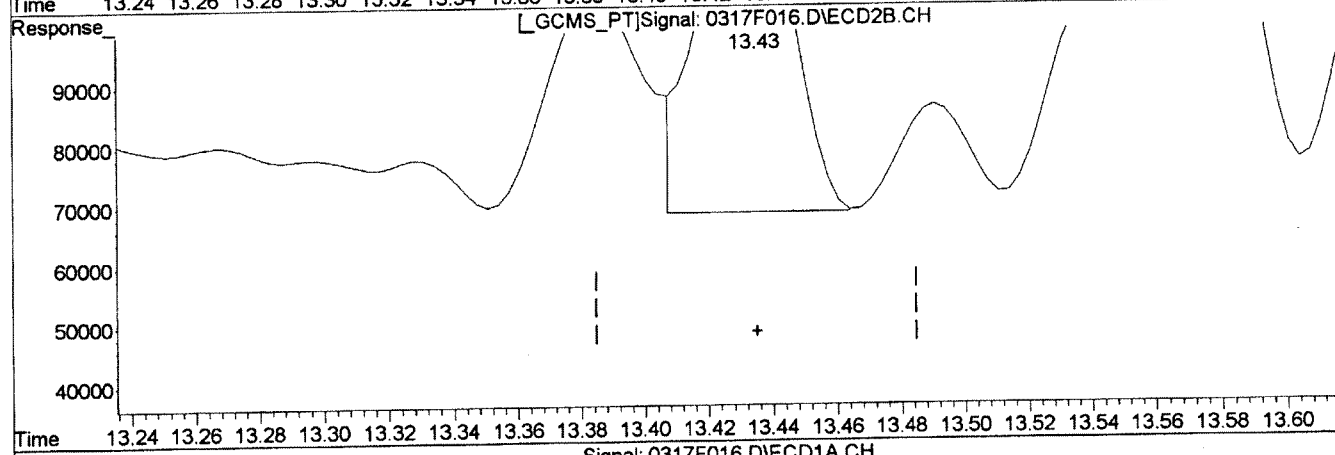
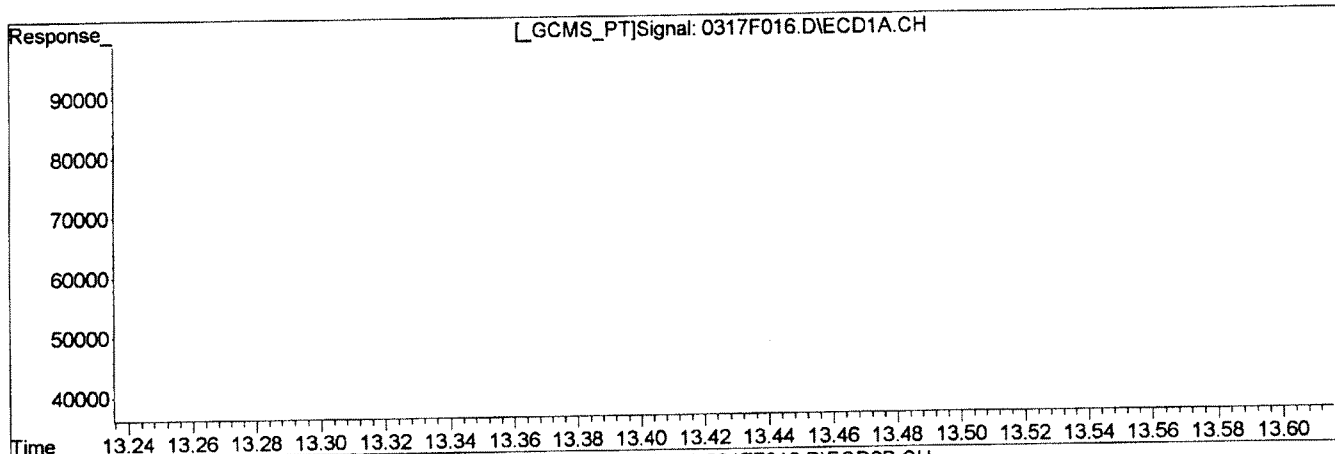
(+) = Expected Retention Time
 0317F016.D GC23-031714-8081.M

Tue Mar 18 16:26:10 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F016.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
14.45	1817.301	723522
13.43	2716.163	122249

Manual Integration:
After
Baseline/Shoulder
03/18/14

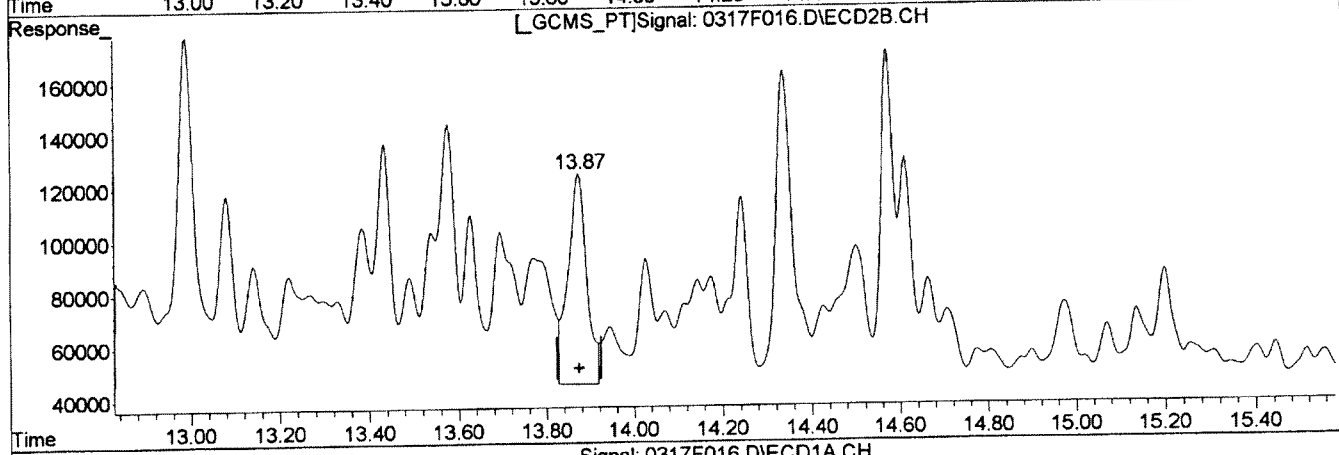
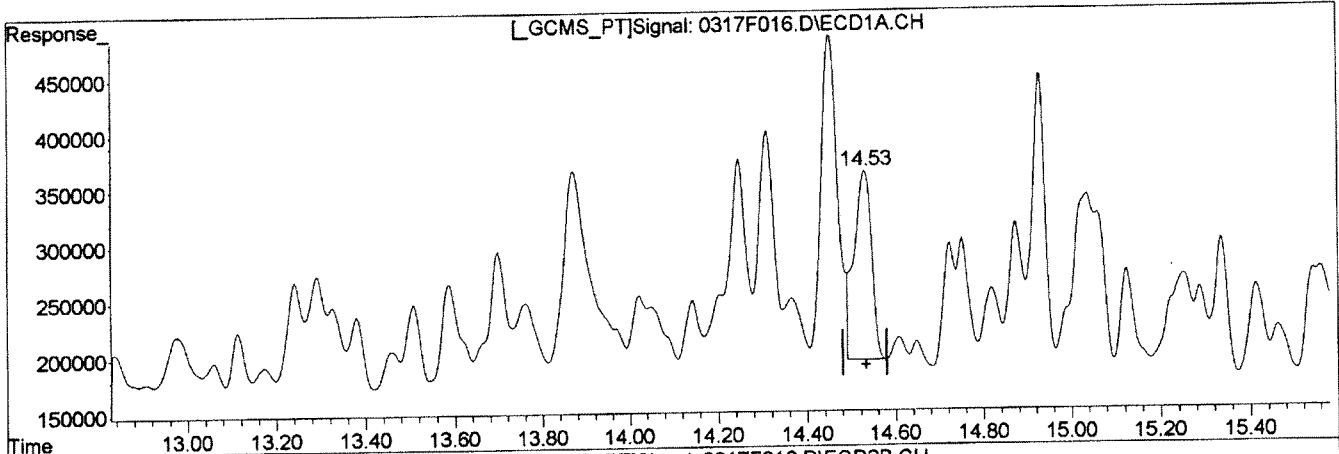
(+) = Expected Retention Time
0317F016.D GC23-031714-8081.M



Tue Mar 18 16:26:18 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
 Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F016.D\ECD1A.CH		Manual Integration:
(33) Toxaphene (4)		Before
14.53min 1774.058ug/L		
response 462647		03/18/14
(33) Toxaphene (4) #2		
13.87min 3504.191ug/L		
response 234824		

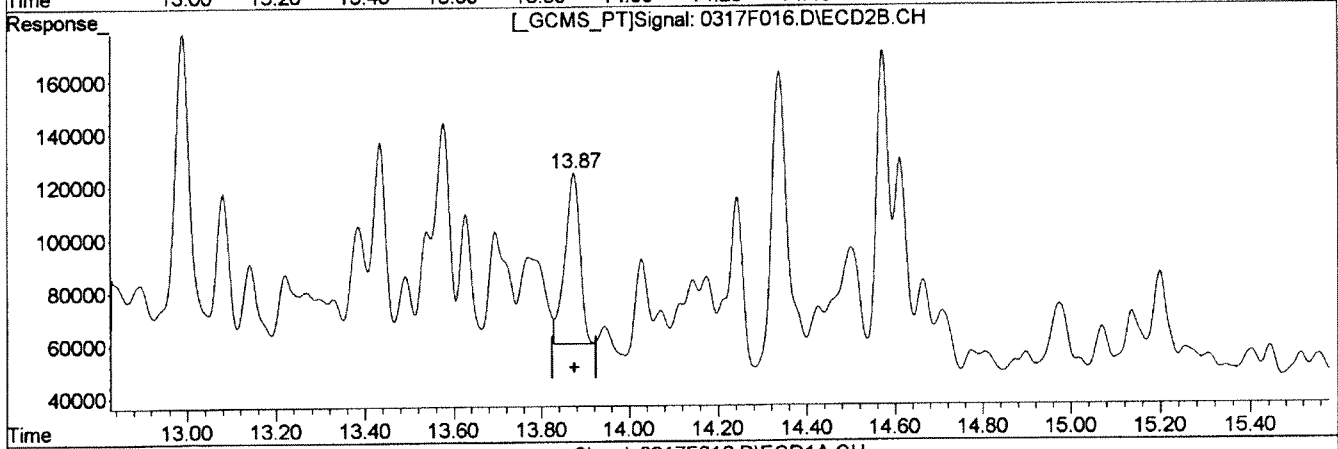
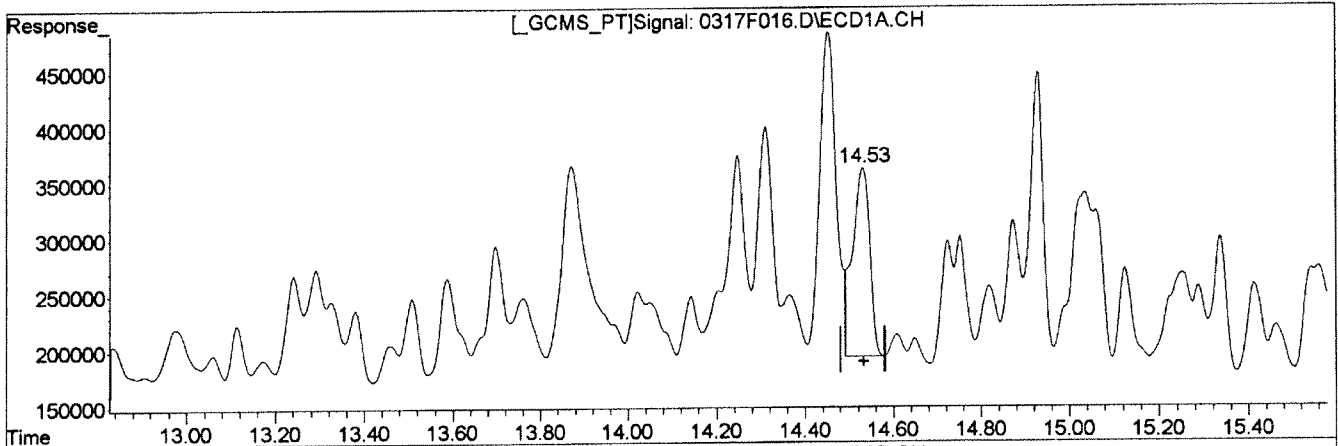
(+) = Expected Retention Time
 0317F016.D GC23-031714-8081.M

Tue Mar 18 16:26:20 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F016.D\ECD1A.CH

(33) Toxaphene (4)	Manual Integration:
14.53min 1774.058ug/L	After
response 462647	Baseline/Shoulder
	03/18/14
(33) Toxaphene (4) #2	
13.87min 2293.682ug/L m	
response 153705	

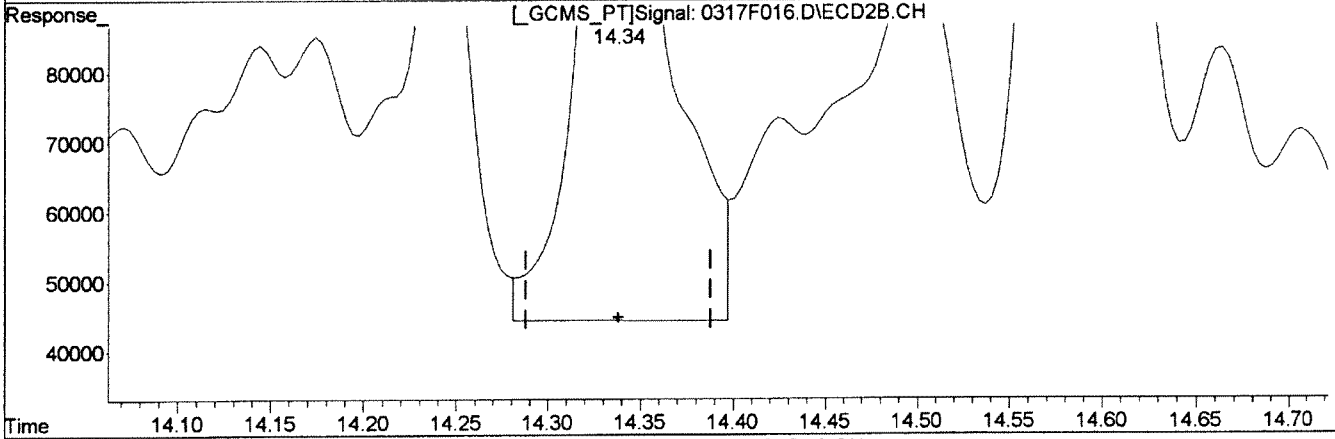
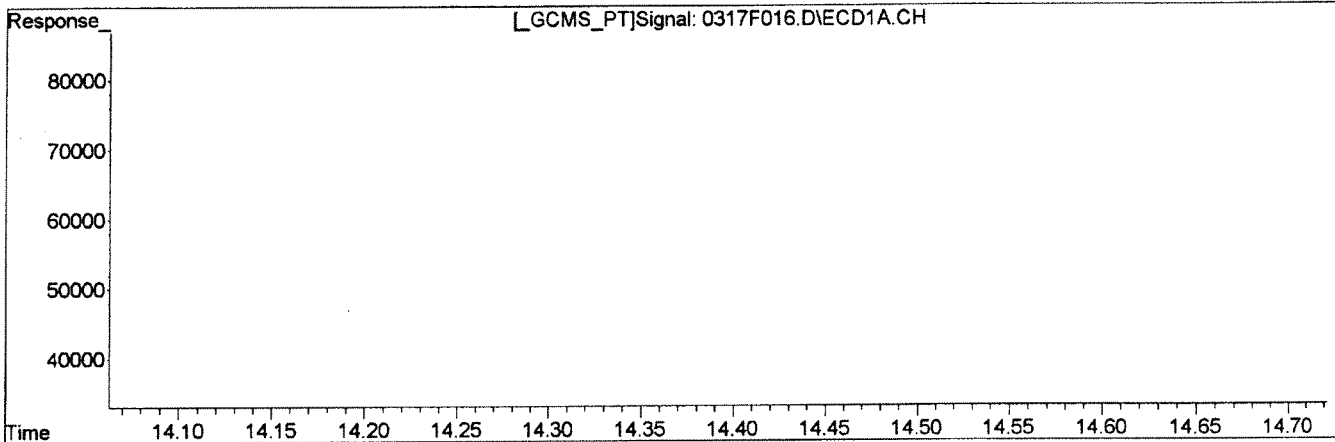
(+) = Expected Retention Time
0317F016.D GC23-031714-8081.M

Tue Mar 18 16:26:28 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



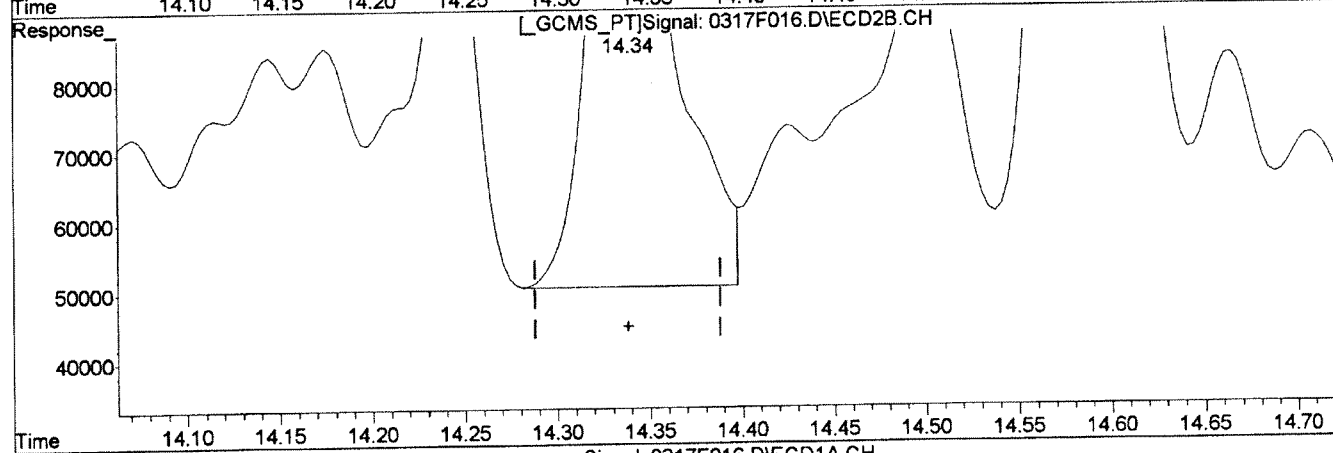
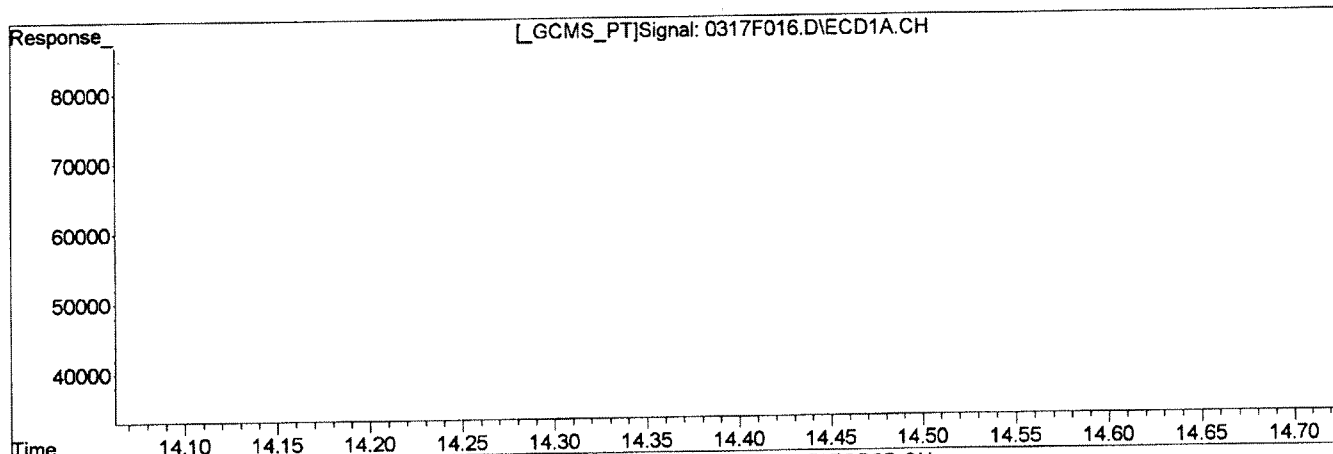
Signal: 0317F016.D\ECD1A.CH		Manual Integration:
(34) Toxaphene (5)		Before
14.93min 1900.238ug/L		
response 491173		03/18/14
(34) Toxaphene (5) #2		
14.34min 4114.867ug/L		
response 331509		

(+) = Expected Retention Time
0317F016.D GC23-031714-8081.M Tue Mar 18 16:26:31 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
 Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F016.D\ECD1A.CH		Manual Integration:
(34) Toxaphene (5)		After
14.93min 1900.238ug/L		Baseline/Shoulder
response 491173		03/18/14
(34) Toxaphene (5) #2		
14.34min 3581.675ug/L m		
response 288553		

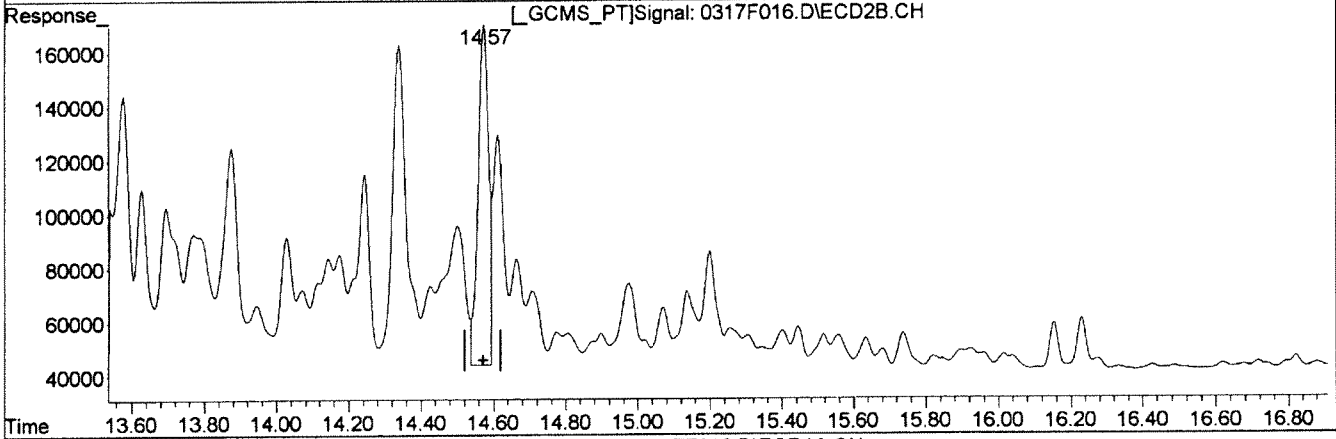
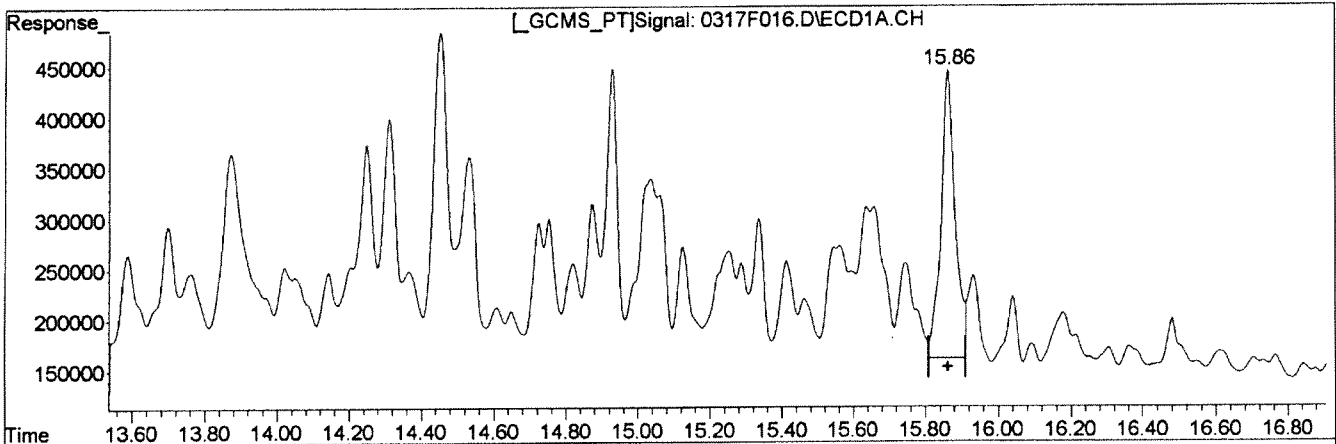
(+) = Expected Retention Time
 0317F016.D GC23-031714-8081.M

Tue Mar 18 16:26:34 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
 Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



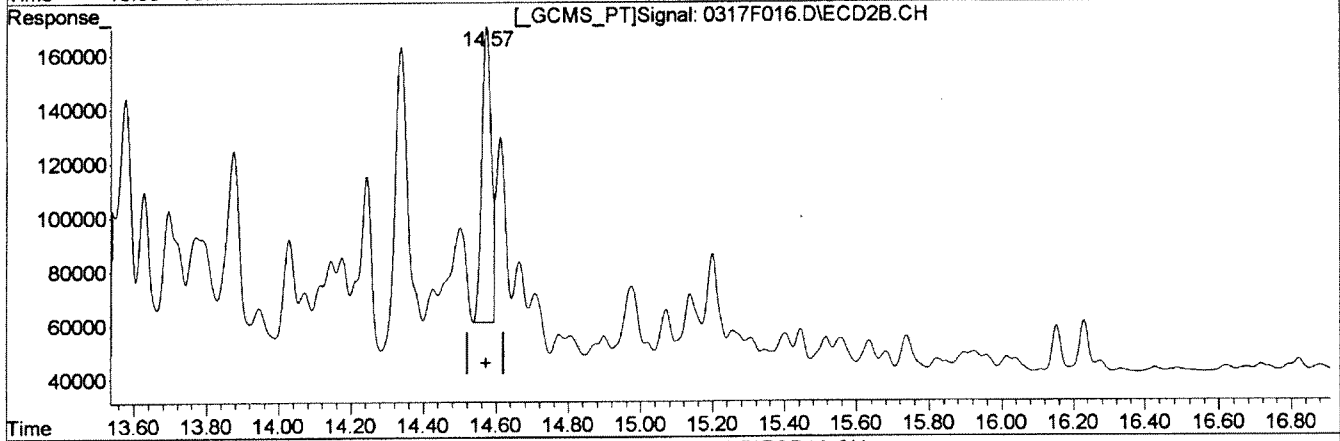
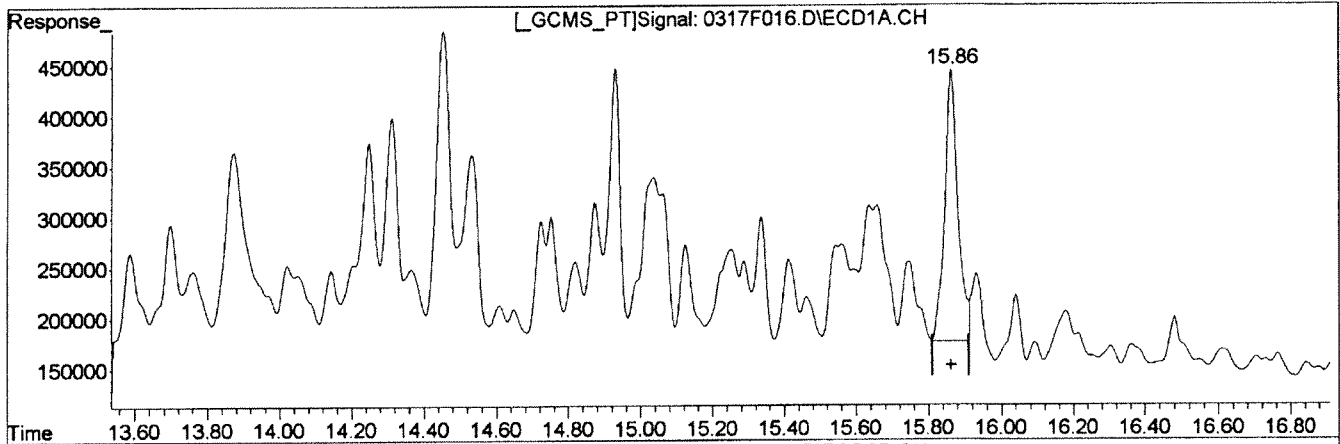
Signal: 0317F016.D\ECD1A.CH		Manual Integration:
(35) Toxaphene {6}		Before
15.86min 1777.102ug/L		
response 769086		03/18/14
(35) Toxaphene {6} #2		
14.57min 2147.235ug/L		
response 257333		

(+) = Expected Retention Time
 0317F016.D GC23-031714-8081.M Tue Mar 18 16:26:36 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD1A.CH Vial: 84
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F016.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:20 pm Operator: SMURRAY
 Sample : TOX @ 2000ppb GCPS7-77N Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F016.D\ECD1A.CH		Manual Integration:
(35) Toxaphene (6)		After
15.86min	1563.342ug/L m	Baseline/Shoulder
response	676576	03/18/14
(35) Toxaphene (6) #2		
14.57min	1673.193ug/L m	
response	200522	

(+) = Expected Retention Time
 0317F016.D GC23-031714-8081.M

Tue Mar 18 16:26:51 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
 Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19:56 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
29) 1-Bromo-2-nitrob	5.92	5.39	1762816	654672	100.000	100.000
System Monitoring Compounds						
Target Compounds						
30) Toxaphene	14.25	12.99	567666	586797	4997.355m	10174.079m#
31) Toxaphene {2}	14.31	13.08	812416	217618	4989.479m	1801.825m#
32) Toxaphene {3}	14.45	13.43	1801588	299012	4483.738m	6551.960m#
33) Toxaphene {4}	14.53	13.87	1194616	378188	4538.955m	5565.768m
34) Toxaphene {5}	14.93	14.34	1229969	726198	4714.953m	8889.710 #
35) Toxaphene {6}	15.86	14.57	1801041	485337	4123.545m	3993.921m

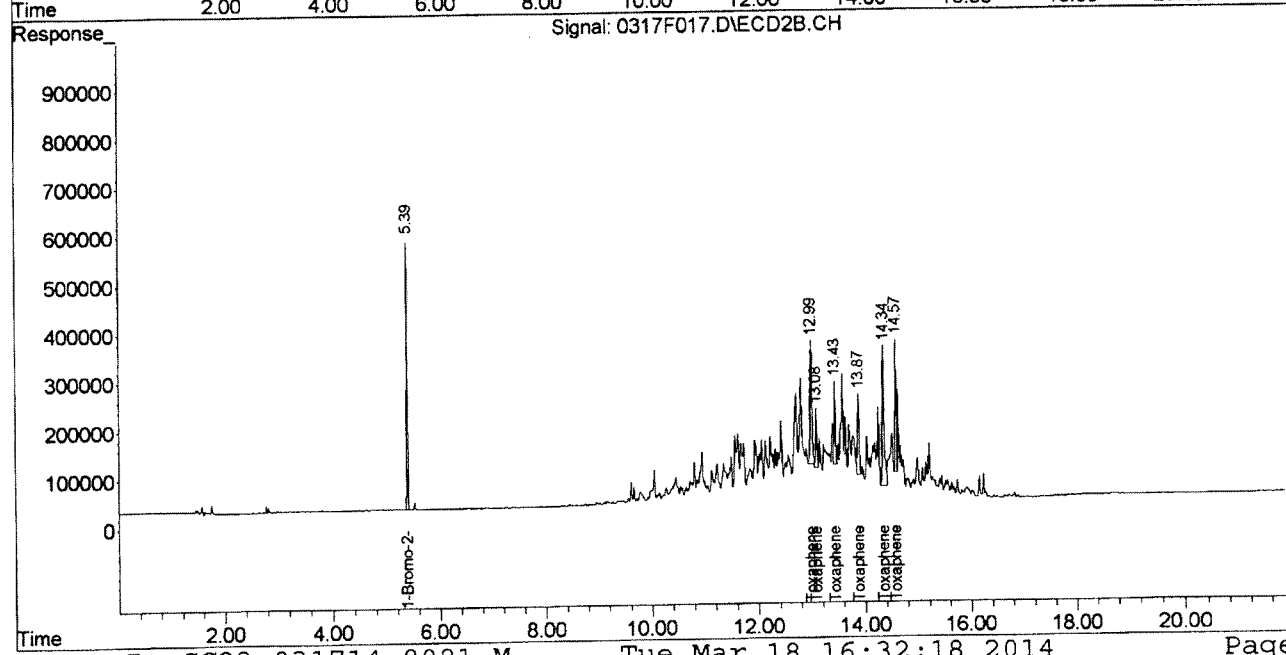
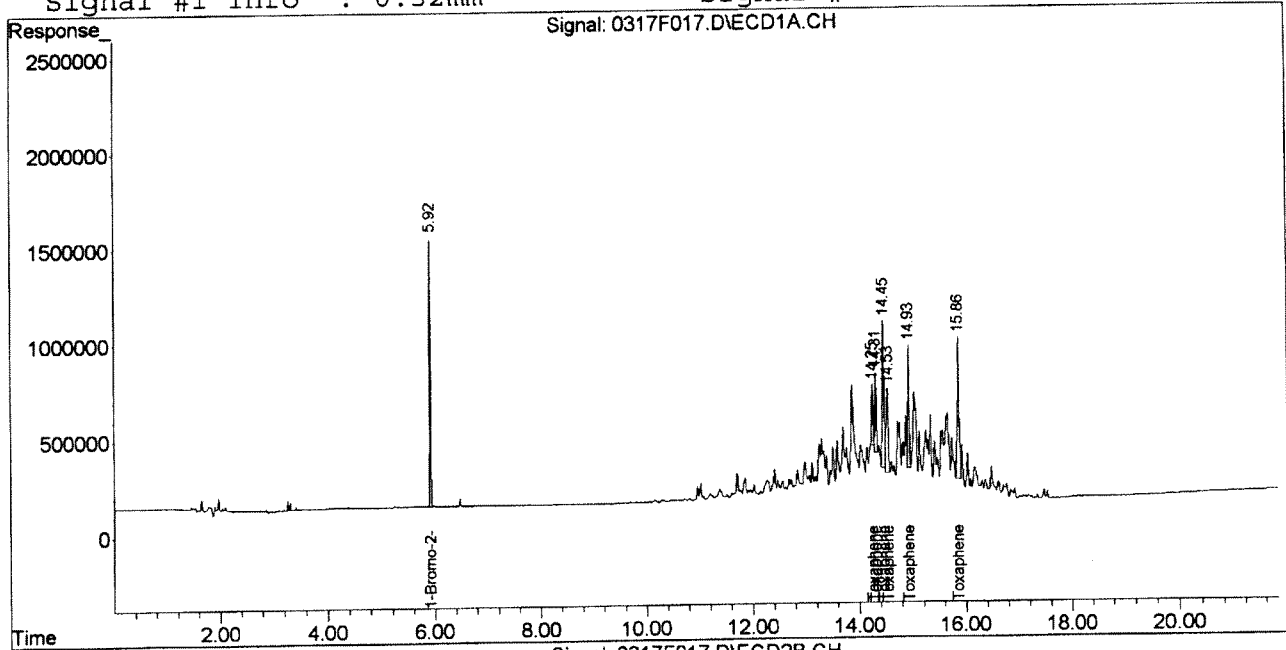
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
 0317F017.D GC23-031714-8081.M Tue Mar 18 16:32:18 2014 Page 1

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
 Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:28 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PESTNEW.M

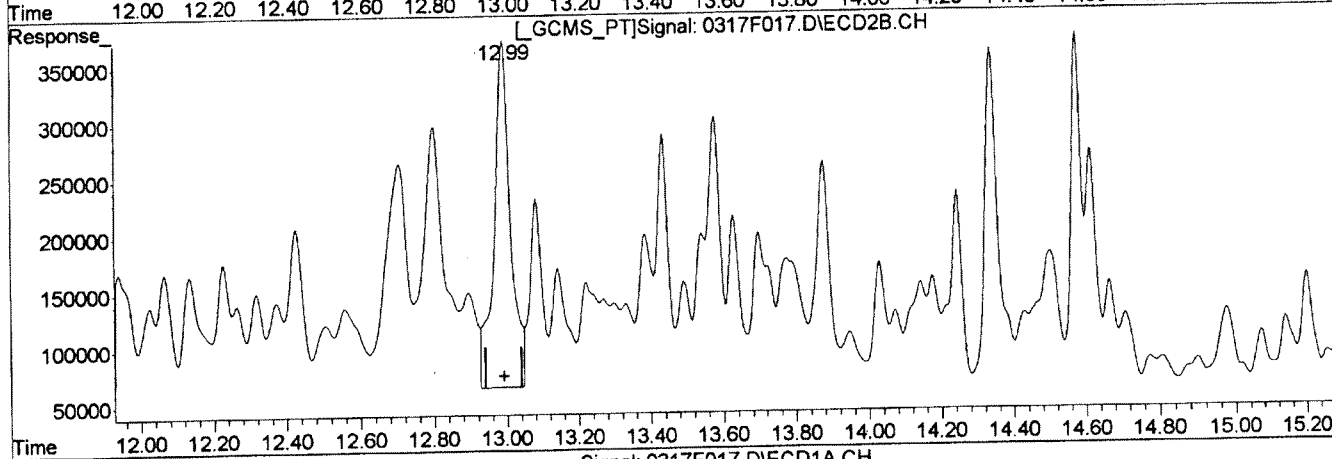
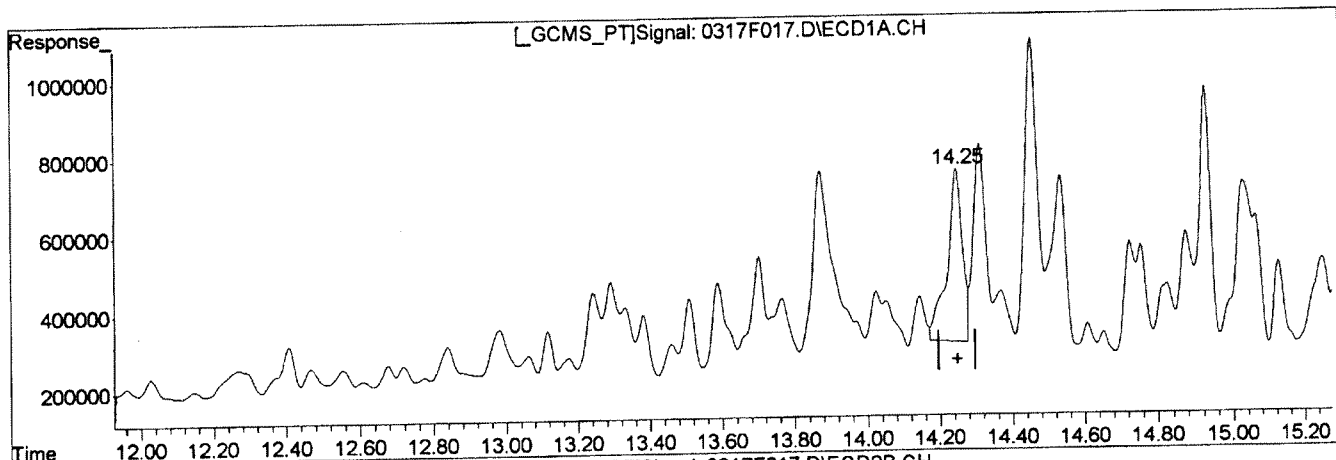
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
 Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F017.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.25min 11416.115ug/L	Before
response 1296794	03/18/14
(30) Toxaphene #2	
12.99min 16749.190ug/L	
response 966021	

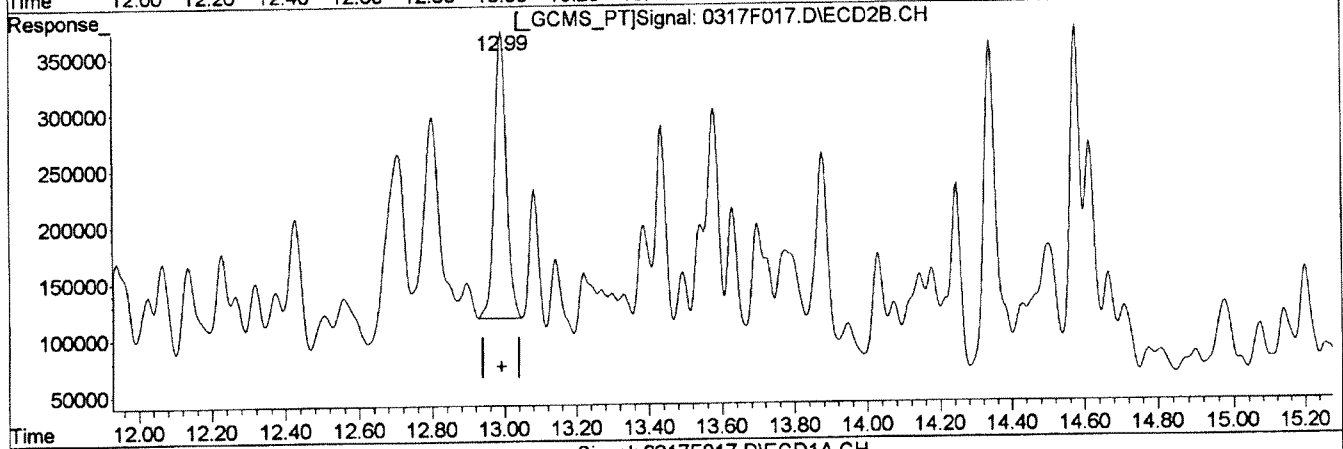
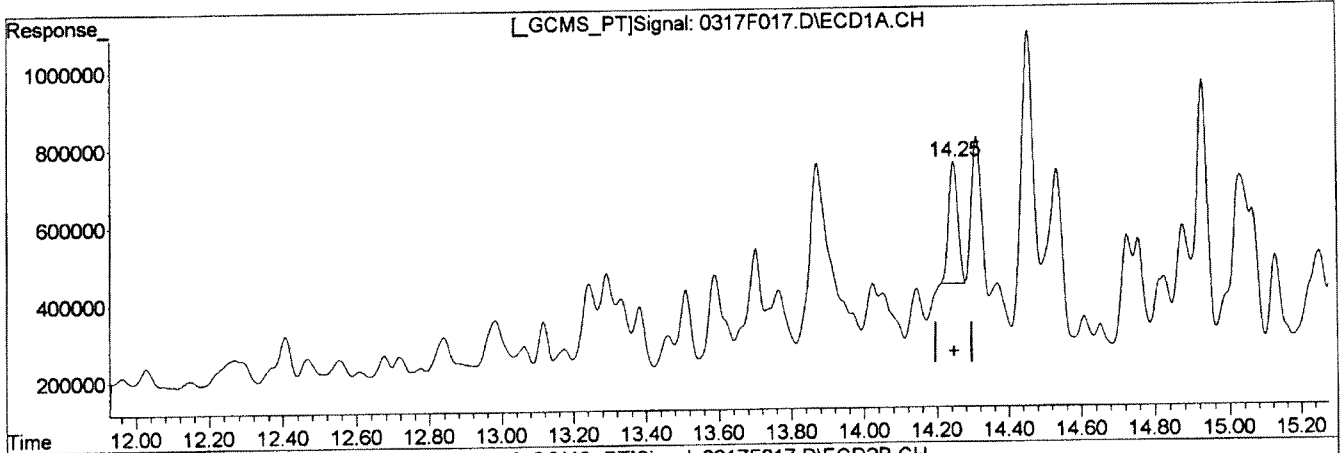
(+) = Expected Retention Time
 0317F017.D GC23-031714-8081.M

Tue Mar 18 16:27:34 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F017.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.25min 4997.355ug/L m	After
response 567666	Baseline/Shoulder
	03/18/14
(30) Toxaphene #2	
12.99min 10174.079ug/L m	
response 586797	

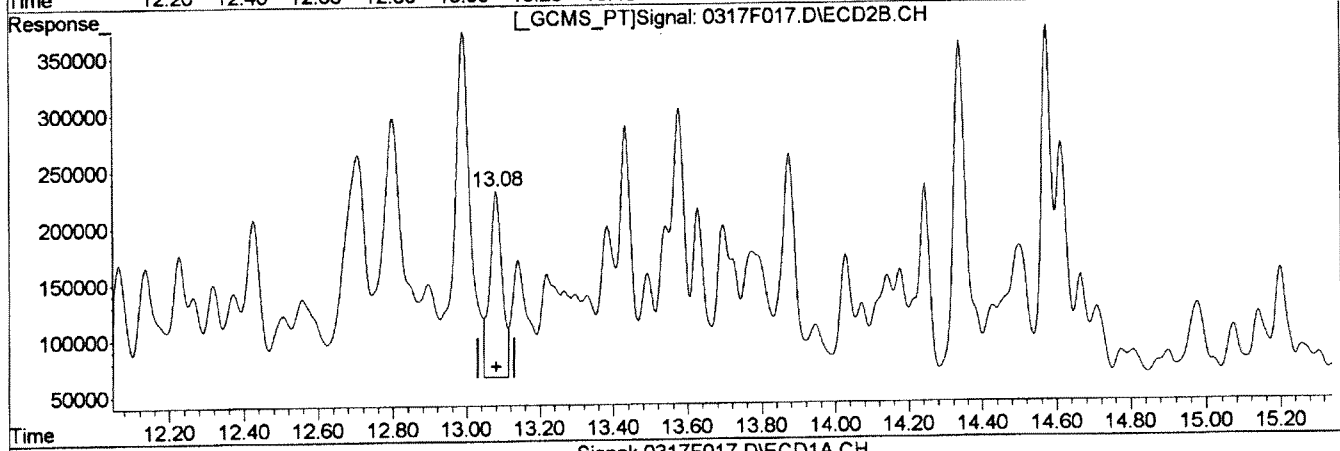
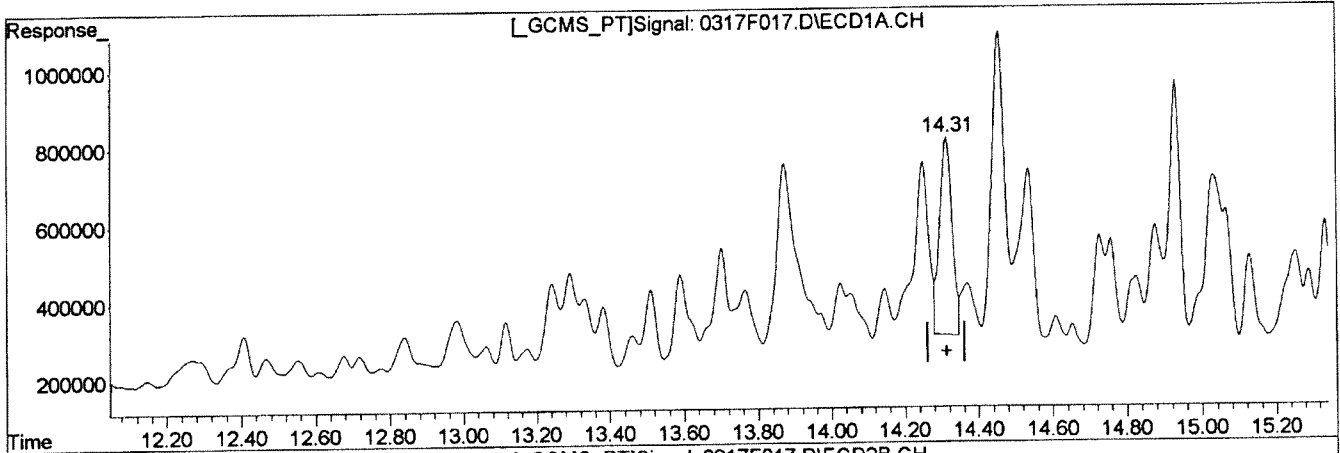
(+) = Expected Retention Time
0317F017.D GC23-031714-8081.M

Tue Mar 18 16:27:47 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F017.D\ECD1A.CH

(31) Toxaphene {2}	Manual Integration:
14.31min 7370.588ug/L	Before
response 1200122	03/18/14
(31) Toxaphene {2} #2	
13.08min 3229.901ug/L	
response 390096	

[Handwritten signature]

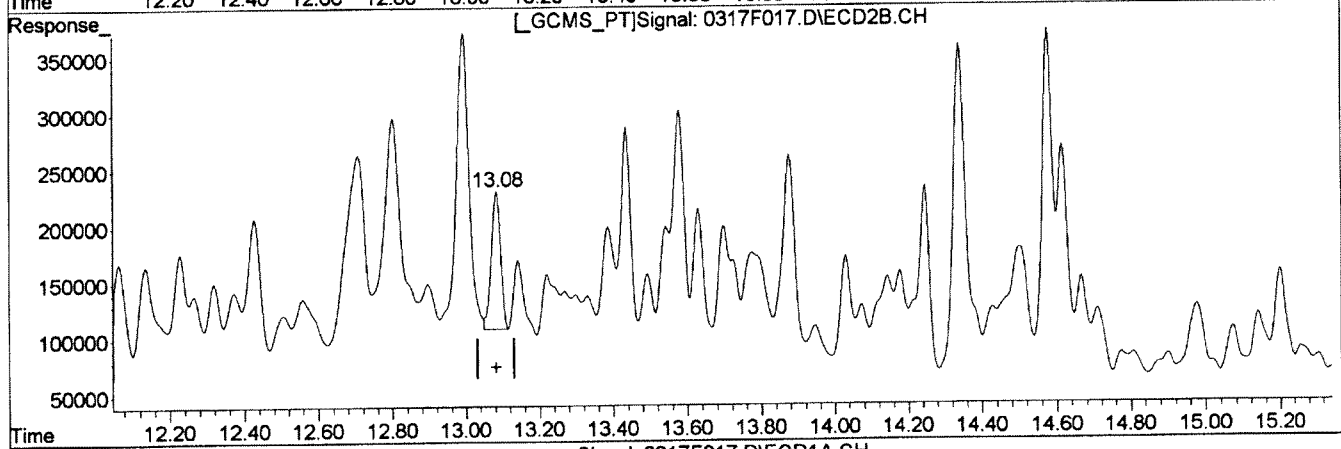
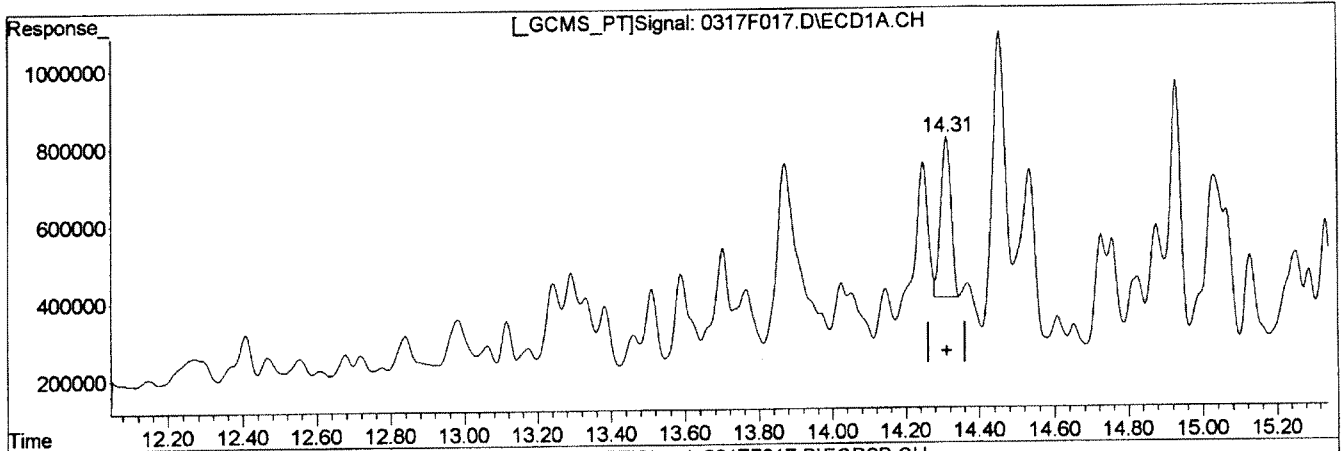
(+) = Expected Retention Time
0317F017.D GC23-031714-8081.M

Tue Mar 18 16:27:48 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F017.D\ECD1A.CH

Retention Time	Concentration	Response	Integration Status	Date
(31) Toxaphene (2) 14.31min	4989.479ug/L m	812416	Manual Integration: After Baseline/Shoulder	03/18/14
(31) Toxaphene (2) #2 13.08min	1801.825ug/L m	217618		

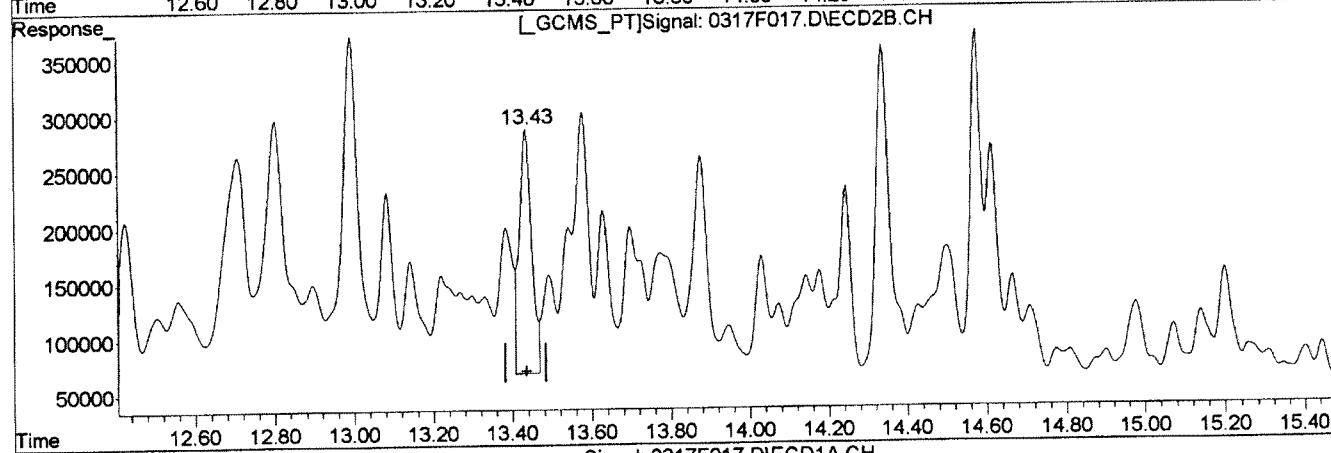
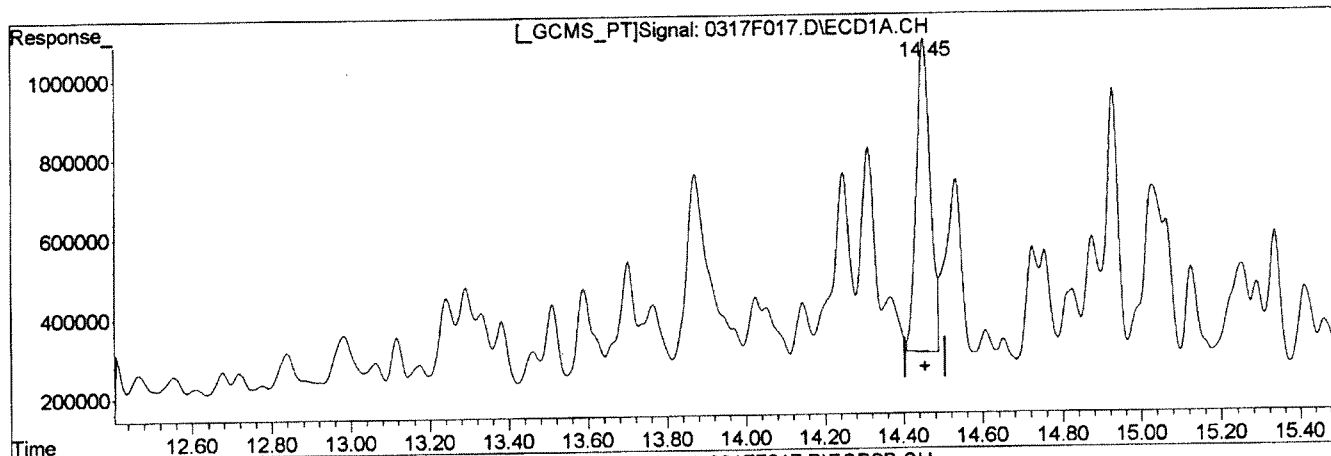
(+) = Expected Retention Time
0317F017.D GC23-031714-8081.M

Tue Mar 18 16:27:58 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
 Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F017.D\ECD1A.CH

(32) Toxaphene {3}	Manual Integration:
14.45min 4778.149ug/L	Before
response 1919884	03/18/14
(32) Toxaphene {3} #2	
13.43min 10233.772ug/L	
response 467039	

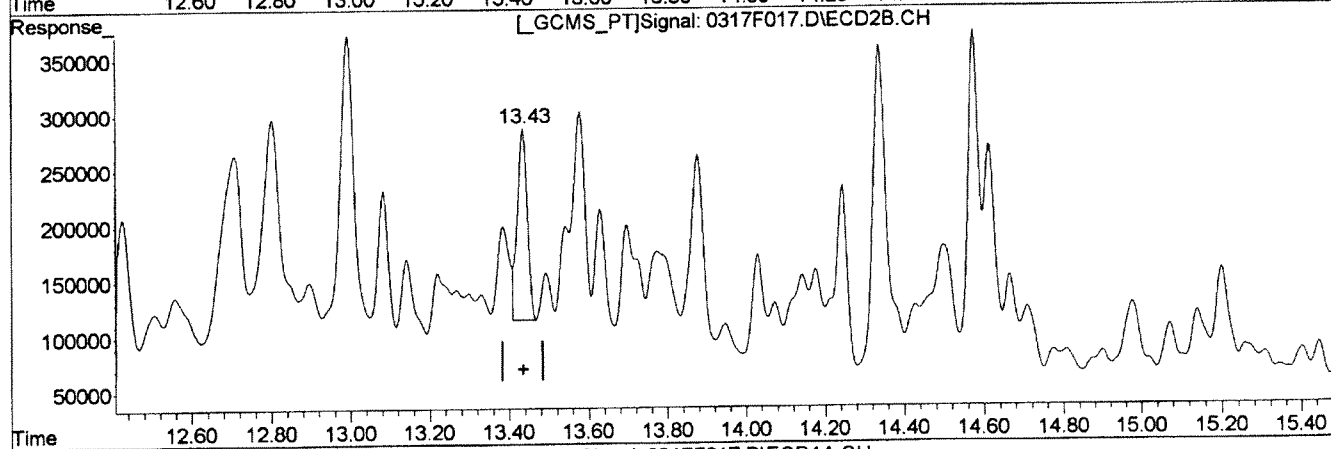
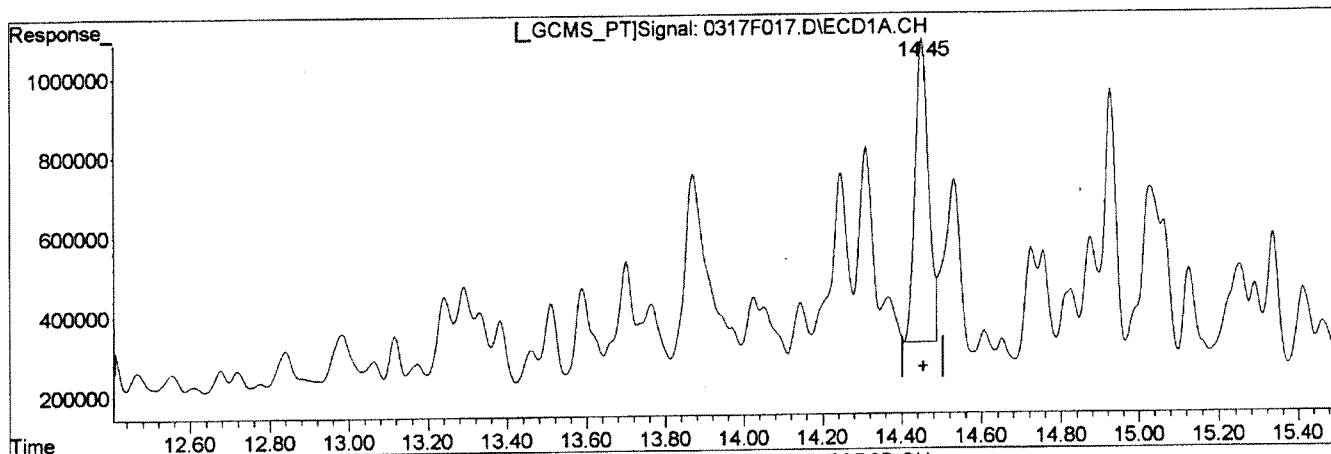
(+) = Expected Retention Time
 0317F017.D GC23-031714-8081.M

Tue Mar 18 16:27:59 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
 Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F017.D\ECD1A.CH

(32) Toxaphene (3)	Manual Integration:
14.45min 4483.738ug/L m	After
response 1801588	Baseline/Shoulder
	03/18/14
(32) Toxaphene (3) #2	
13.43min 6551.960ug/L m	
response 299012	

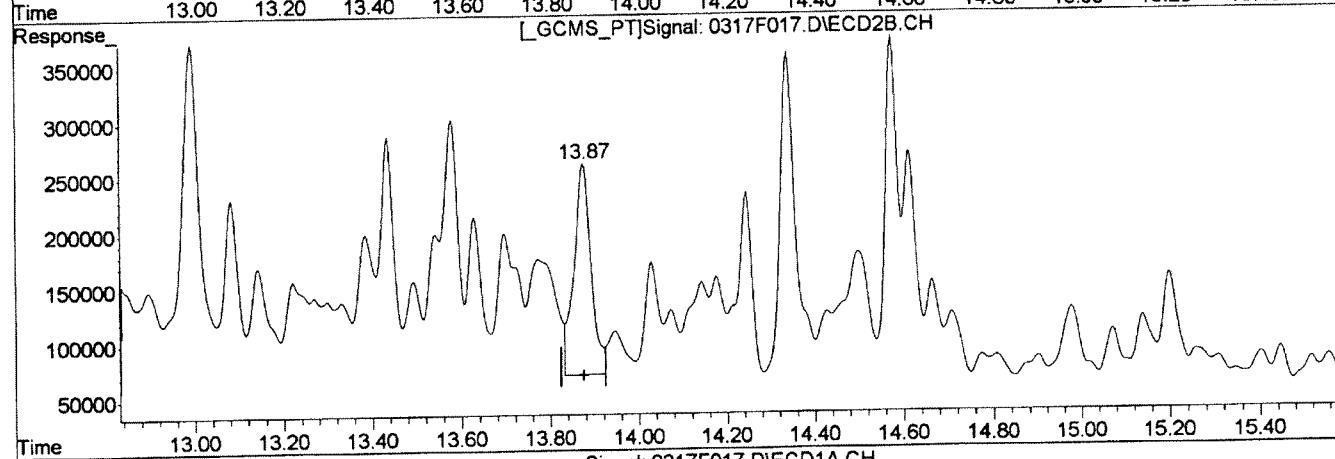
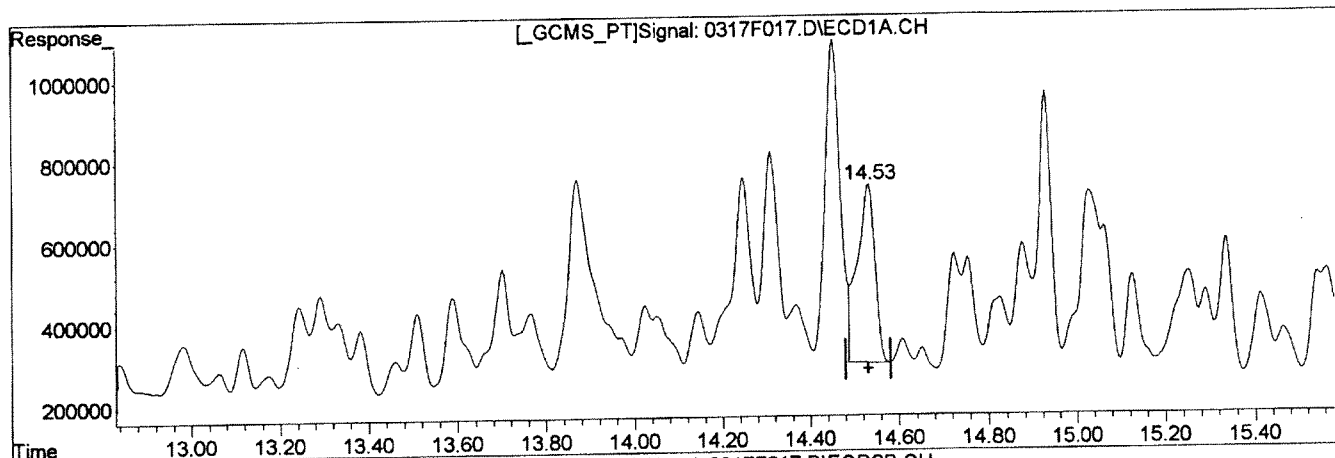
(+) = Expected Retention Time
 0317F017.D GC23-031714-8081.M

Tue Mar 18 16:28:10 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
 Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F017.D\ECD1A.CH		Manual Integration:
(33) Toxaphene (4)		Before
14.53min 4560.475ug/L		
response 1200280		03/18/14
(33) Toxaphene (4) #2		
13.87min 7475.716ug/L		
response 507967		

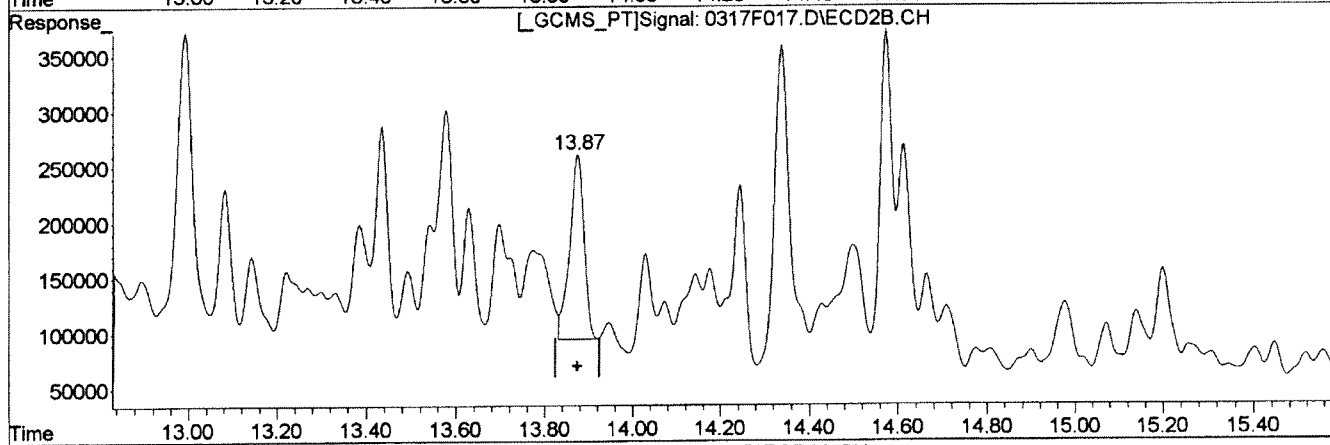
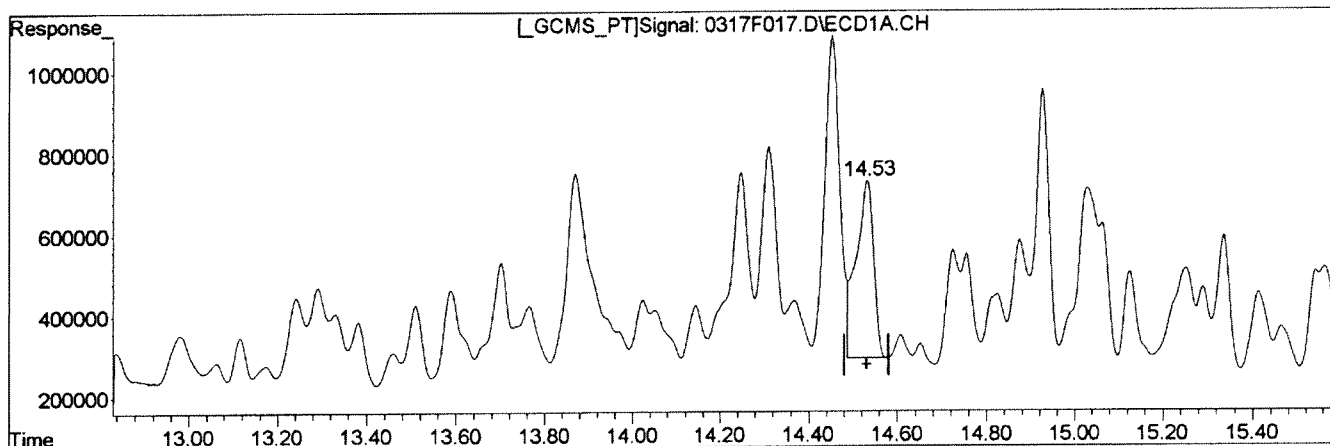
(+) = Expected Retention Time
 0317F017.D GC23-031714-8081.M

Tue Mar 18 16:28:11 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F017.D\ECD1A.CH

(33) Toxaphene (4)	Manual Integration:
14.53min 4538.955ug/L m	After
response 1194616	Baseline/Shoulder
	03/18/14
(33) Toxaphene (4) #2	
13.87min 5565.768ug/L m	
response 378188	

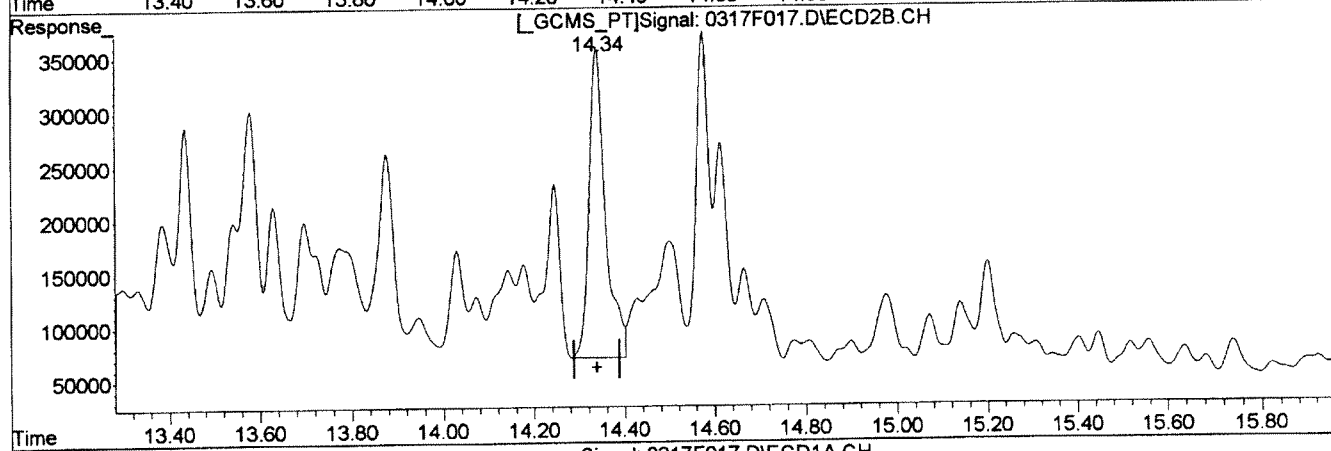
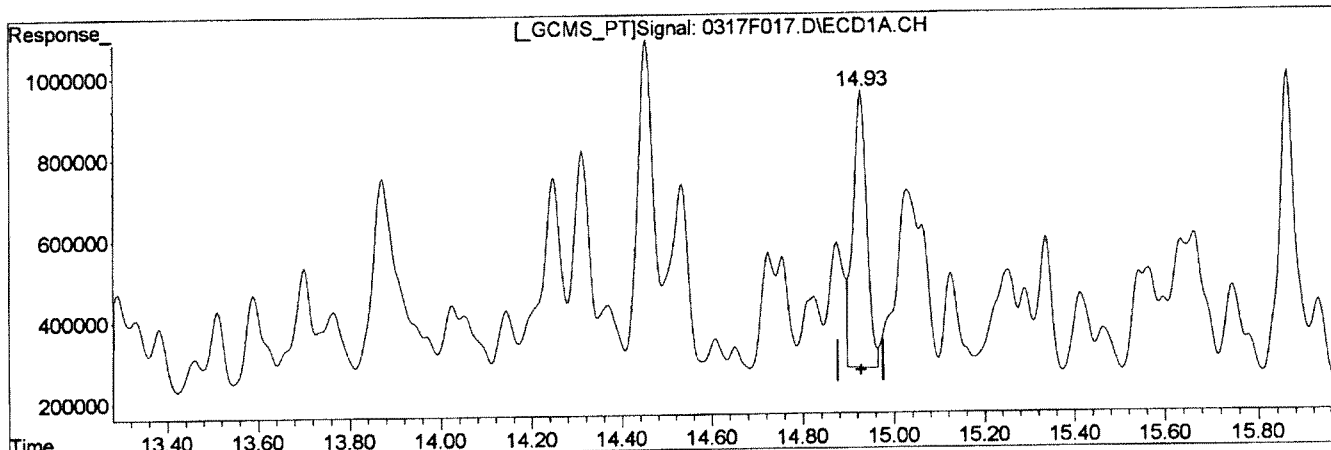
(+) = Expected Retention Time
0317F017.D GC23-031714-8081.M

Tue Mar 18 16:28:21 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
 Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F017.D\ECD1A.CH		Manual Integration:
(34) Toxaphene (5)		Before
14.93min 5387.115ug/L		
response 1405313		03/18/14
(34) Toxaphene (5) #2		
14.34min 8889.710ug/L		
response 726198		

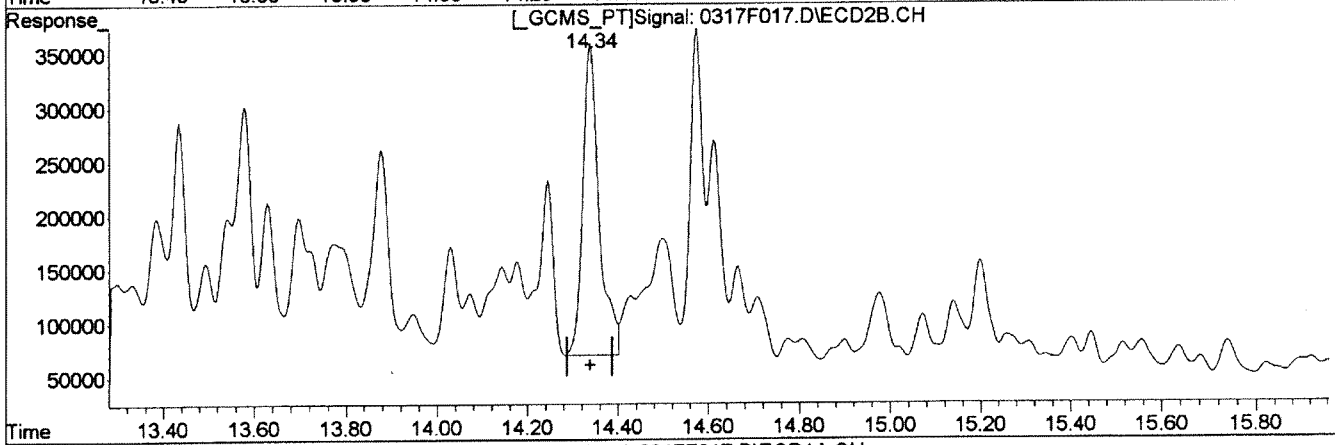
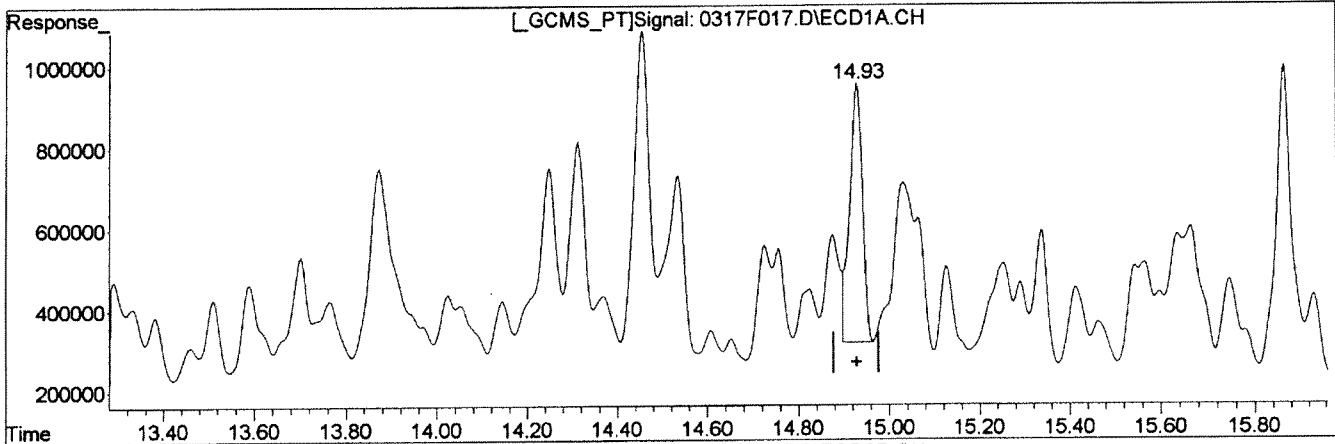
(+) = Expected Retention Time
 0317F017.D GC23-031714-8081.M

Tue Mar 18 16:28:22 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
 Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



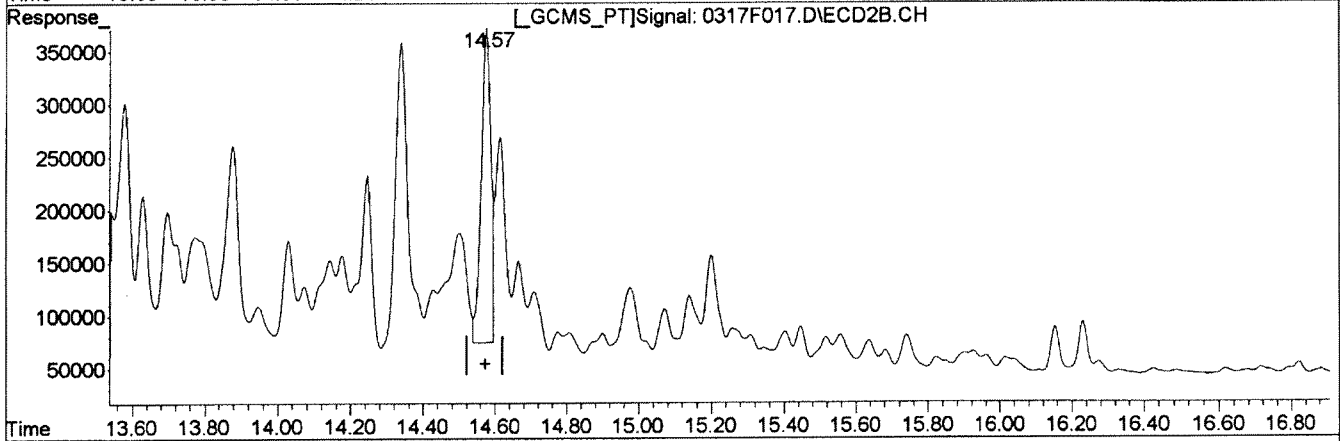
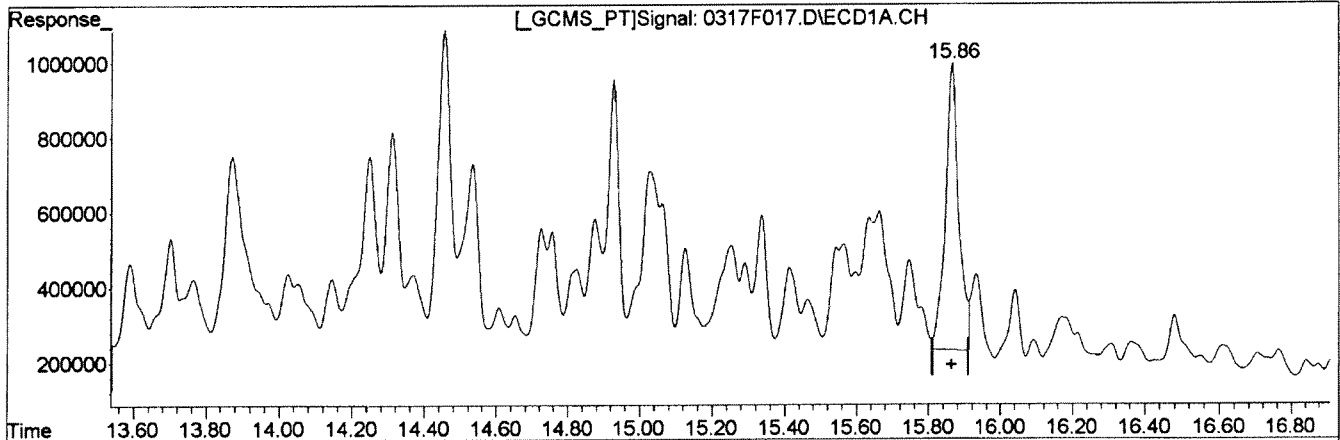
Signal: 0317F017.D\ECD1A.CH		Manual Integration:
(34) Toxaphene (5)		After
14.93min	4714.953ug/L m	Baseline/Shoulder
response	1229969	03/18/14
(34) Toxaphene (5) #2		
14.34min	8889.710ug/L	
response	726198	

(+) = Expected Retention Time
 0317F017.D GC23-031714-8081.M Tue Mar 18 16:28:31 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:19:23 2014
Response via : Multiple Level Calibration



Signal: 0317F017.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Integration Status
15.86	4492.043	1961990	Manual Integration: Before
14.57	4635.706	563326	03/18/14

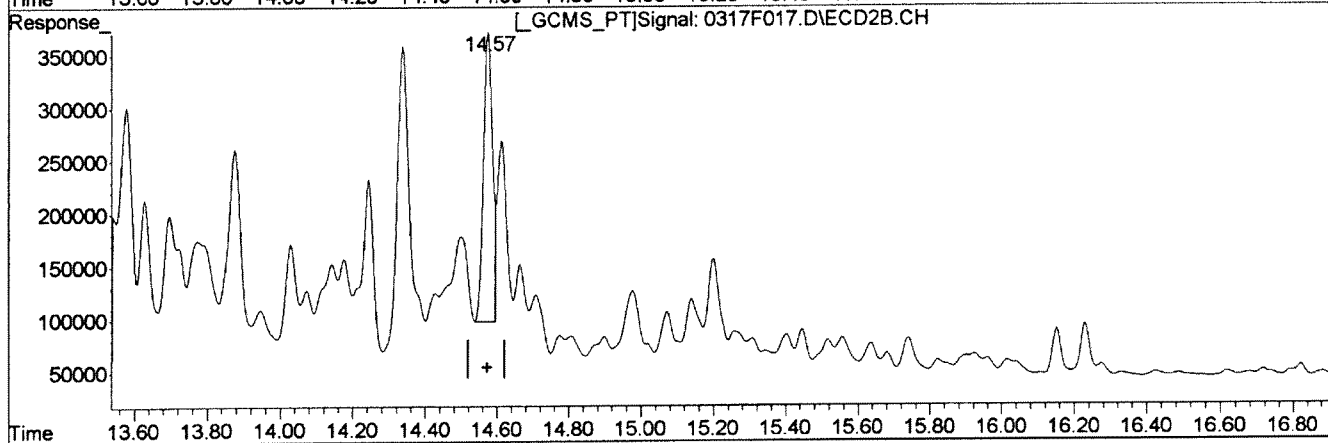
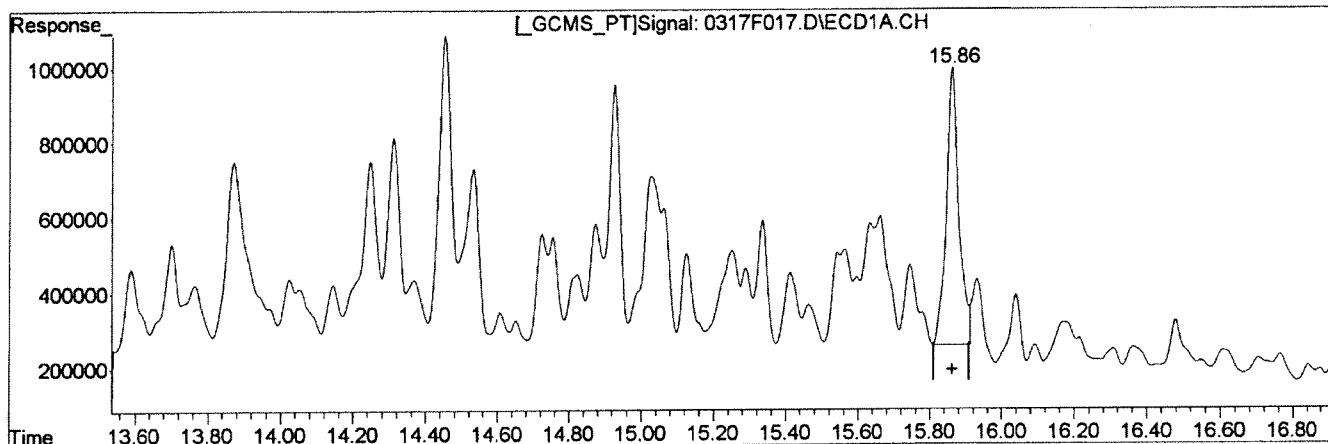
(+) = Expected Retention Time
0317F017.D GC23-031714-8081.M

Tue Mar 18 16:28:33 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD1A.CH Vial: 85
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F017.D\ECD2B.CH
 Acq On : 17 Mar 2014 8:49 pm Operator: SMURRAY
 Sample : TOX @ 5000ppb GCPS7-770 Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:19:23 2014
 Response via : Multiple Level Calibration



Signal: 0317F017.D\ECD1A.CH		Manual Integration:
(35) Toxaphene (6)		After
15.86min 4123.545ug/L m		Baseline/Shoulder
response 1801041		03/18/14
(35) Toxaphene (6) #2		
14.57min 3993.921ug/L m		
response 485337		

(+) = Expected Retention Time
 0317F017.D GC23-031714-8081.M

Tue Mar 18 16:28:43 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
 Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:30:05 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:29:39 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

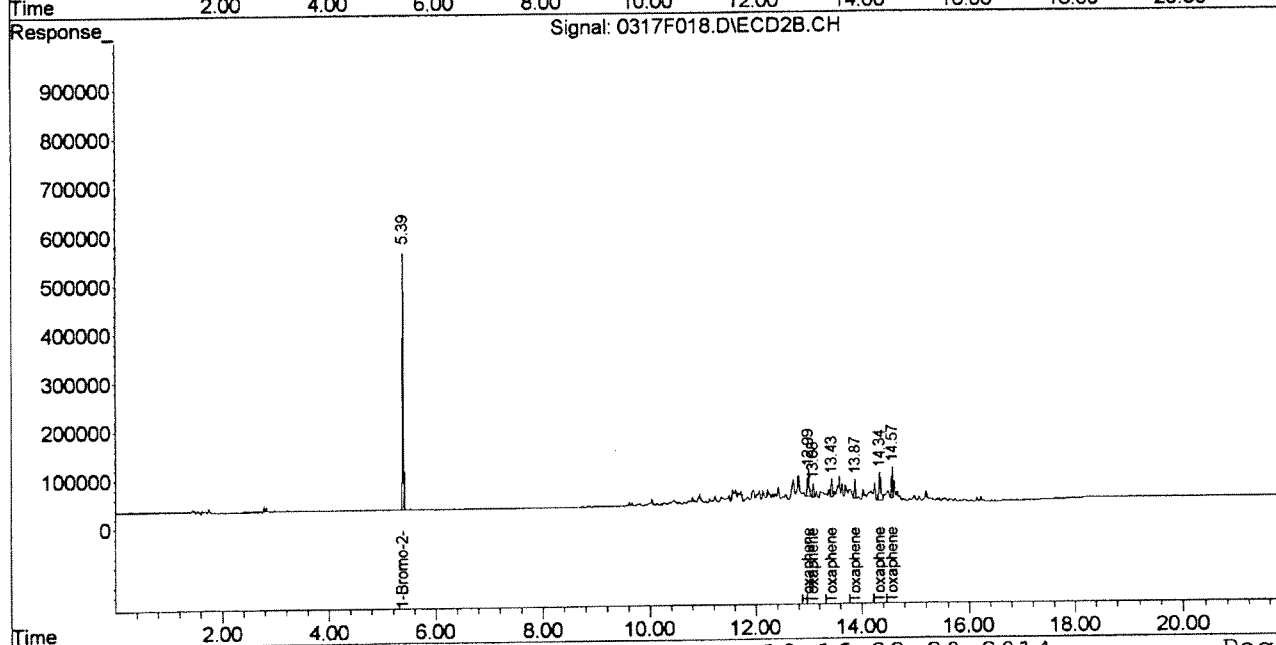
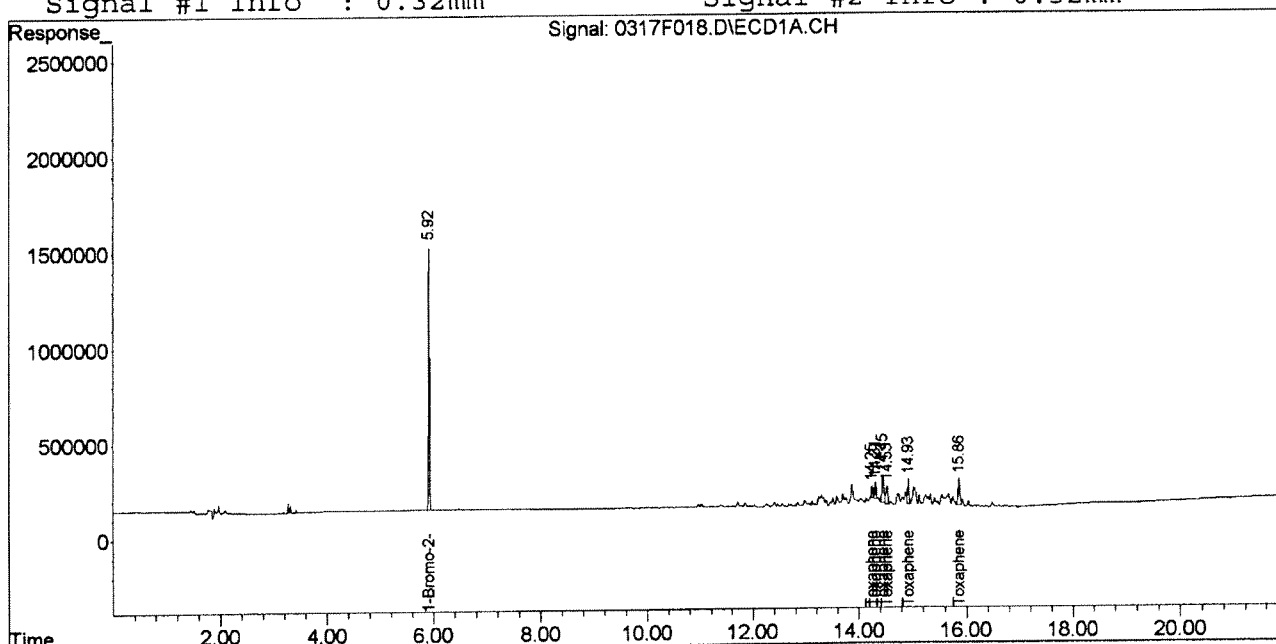
Internal Standards						
29) 1-Bromo-2-nitrob	5.92	5.39	1701379	634011	100.000	100.000
System Monitoring Compounds						
Target Compounds						
30) Toxaphene	14.25	12.99	109356	130476	972.818m	1057.756m
31) Toxaphene {2}	14.31	13.08	166365	48987	1003.510m	1007.600m
32) Toxaphene {3}	14.45	13.43	363834	69931	937.082m	1066.225m
33) Toxaphene {4}	14.53	13.87	264106	79523	1068.561m	997.914m
34) Toxaphene {5}	14.93	14.34	259203	150404	1028.310m	1013.268m
35) Toxaphene {6}	15.86	14.57	334051	114544	1001.535m	1059.042m

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
 Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:31 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:29:39 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PESTNEW.M

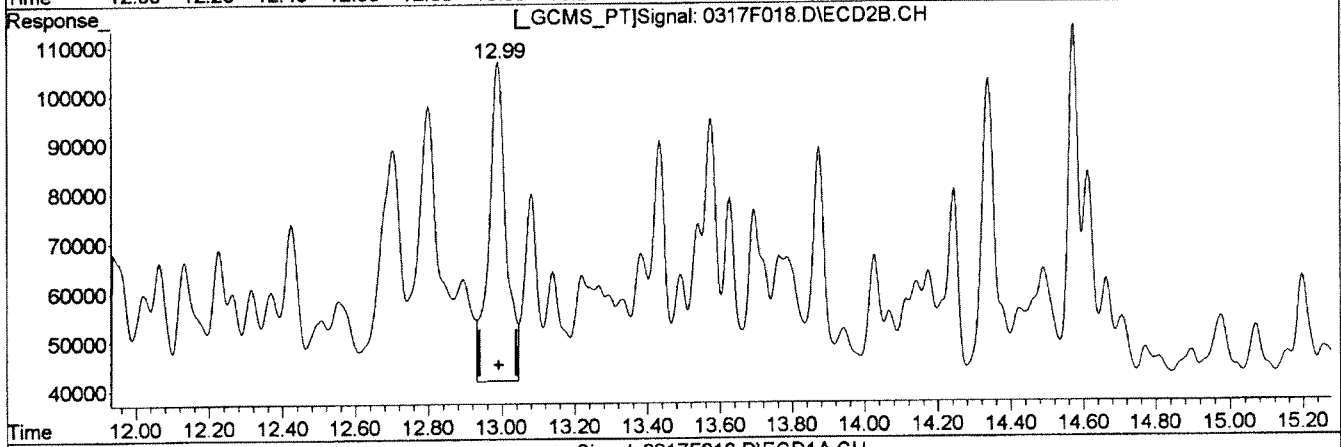
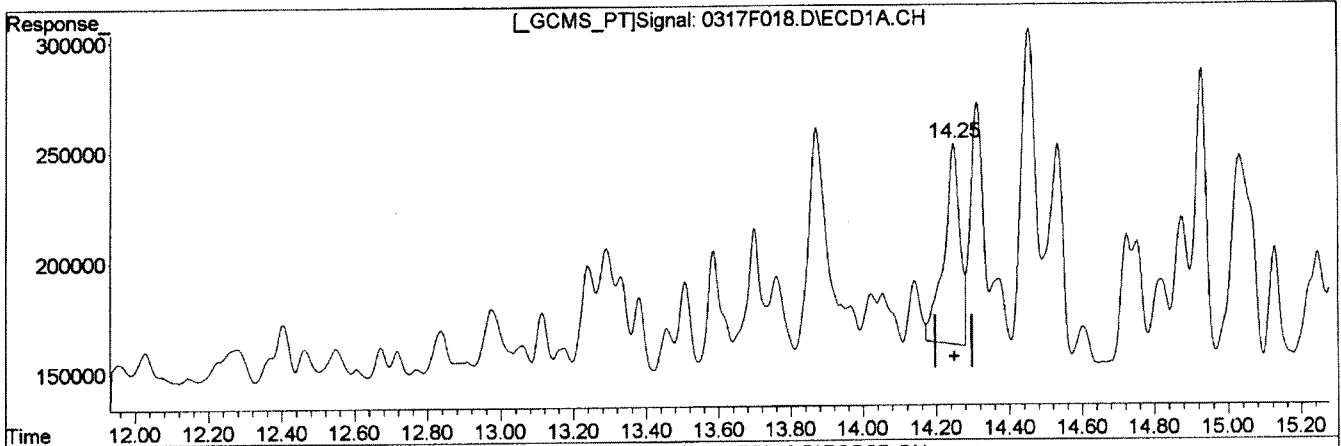
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm





Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
 Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:29:39 2014
 Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.25min 2445.139ug/L	Before
response 274862	03/18/14
(30) Toxaphene #2	
12.99min 1697.504ug/L	
response 209390	

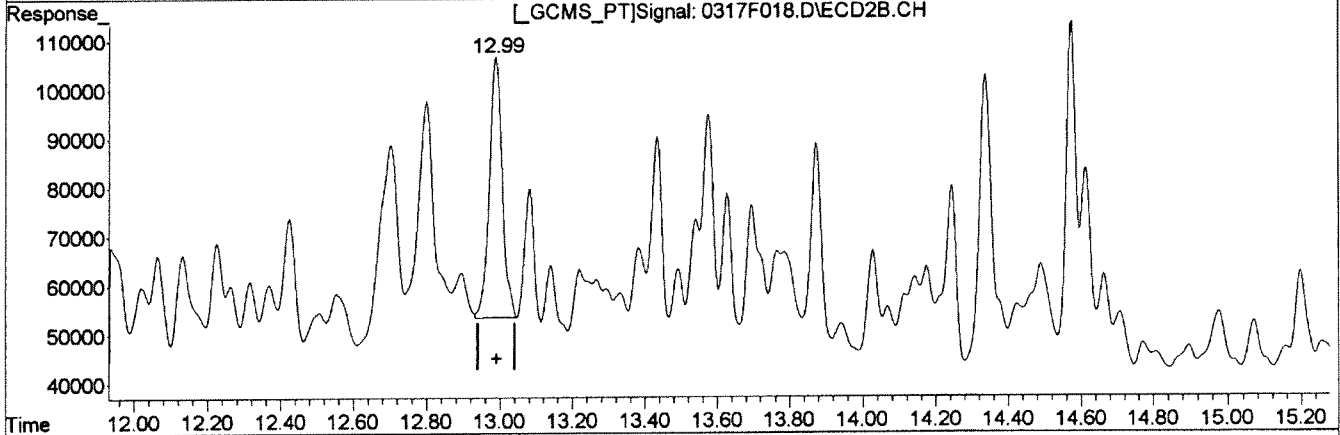
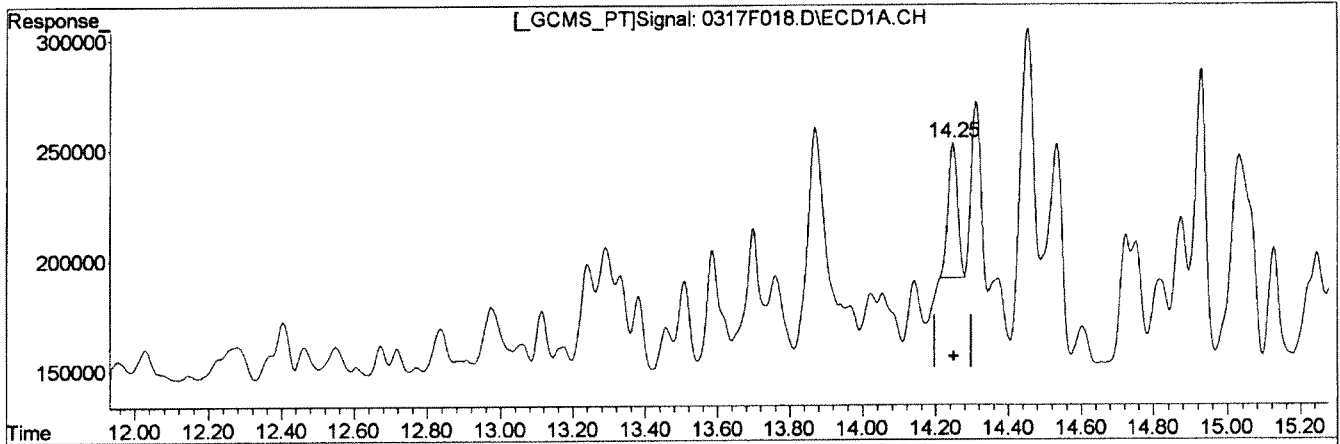
(+) = Expected Retention Time
 0317F018.D GC23-031714-8081.M

Tue Mar 18 16:30:23 2014



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
 Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:29:39 2014
 Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.25min 972.818ug/L m	After
response 109356	Baseline/Shoulder
	03/18/14
(30) Toxaphene #2	
12.99min 1057.756ug/L m	
response 130476	

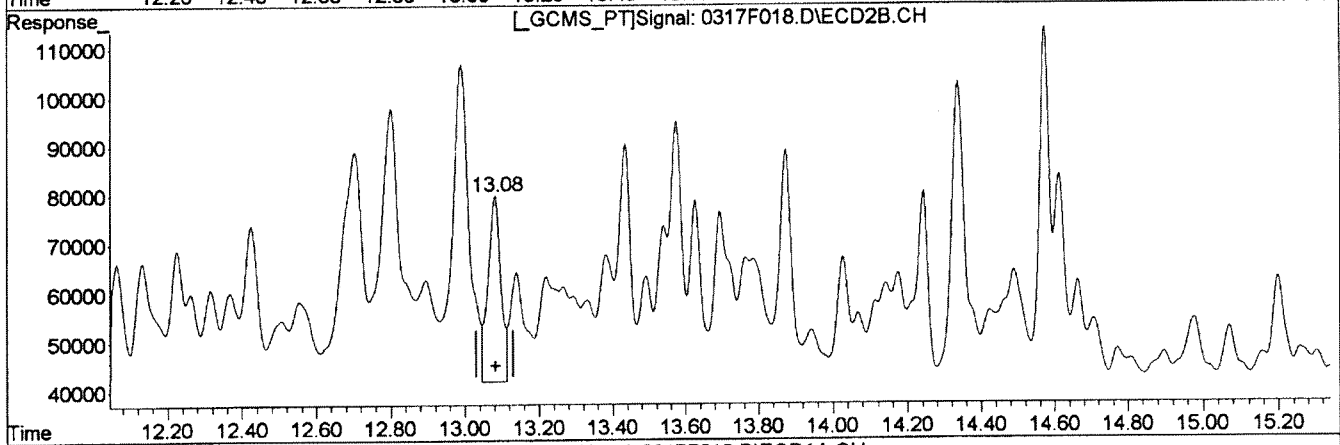
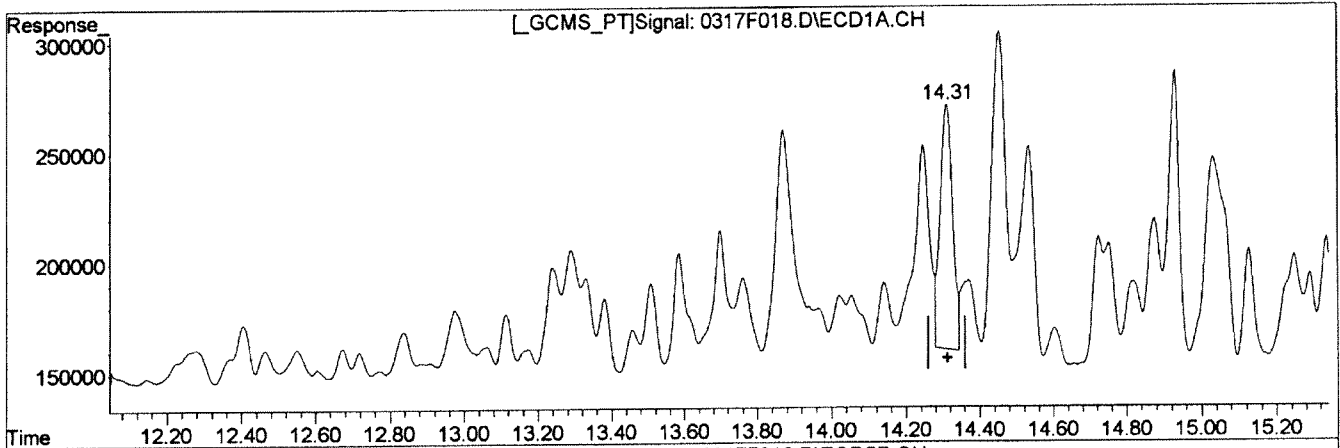
(+) = Expected Retention Time
 0317F018.D GC23-031714-8081.M

Tue Mar 18 16:30:47 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
 Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:29:39 2014
 Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH

(31) Toxaphene (2)	Manual Integration:
14.31min 1566.366ug/L	Before
response 259677	03/18/14
(31) Toxaphene (2) #2	
13.08min 1884.609ug/L	
response 91625	

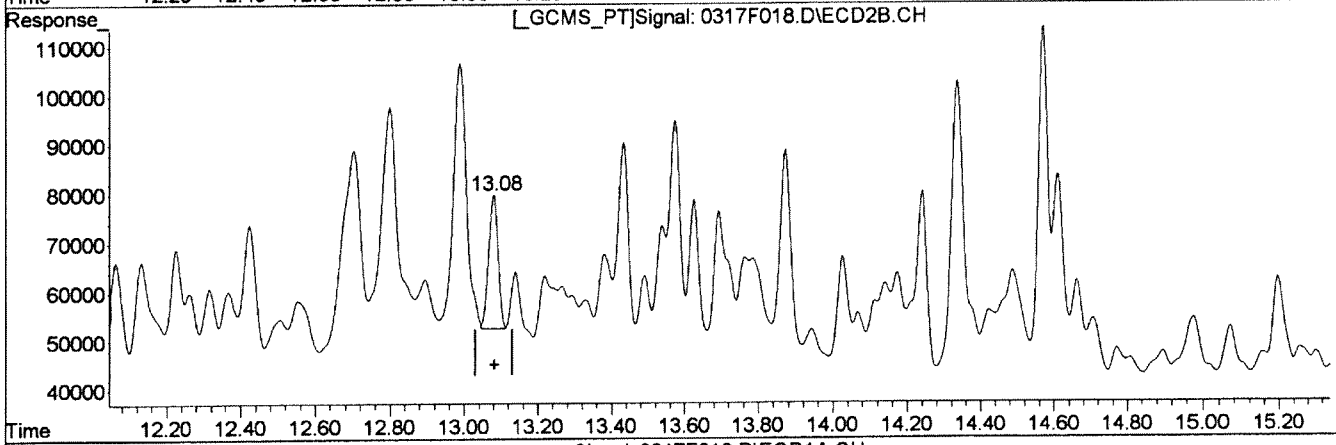
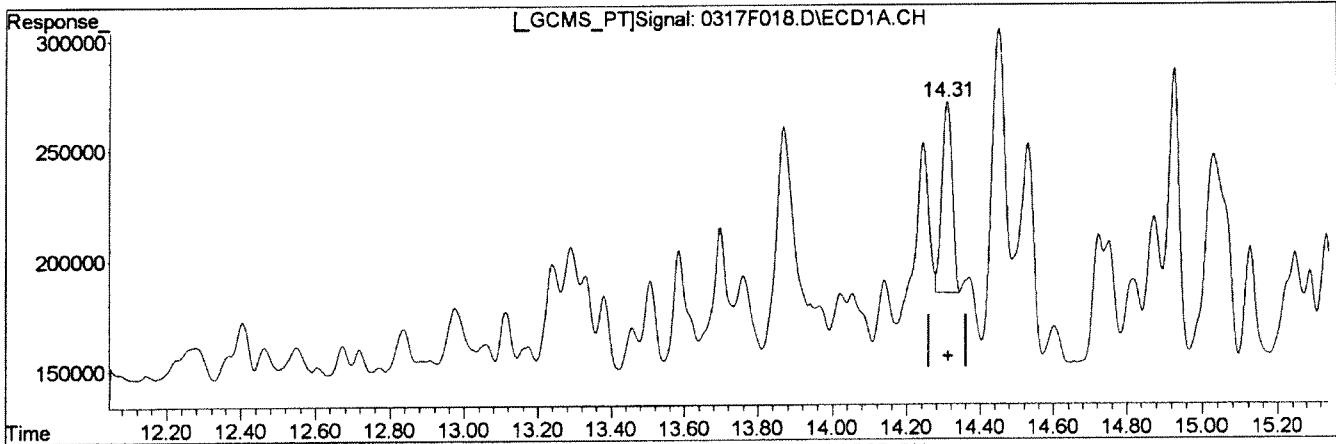
(+) = Expected Retention Time
 0317F018.D GC23-031714-8081.M

Tue Mar 18 16:30:48 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:29:39 2014
Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH

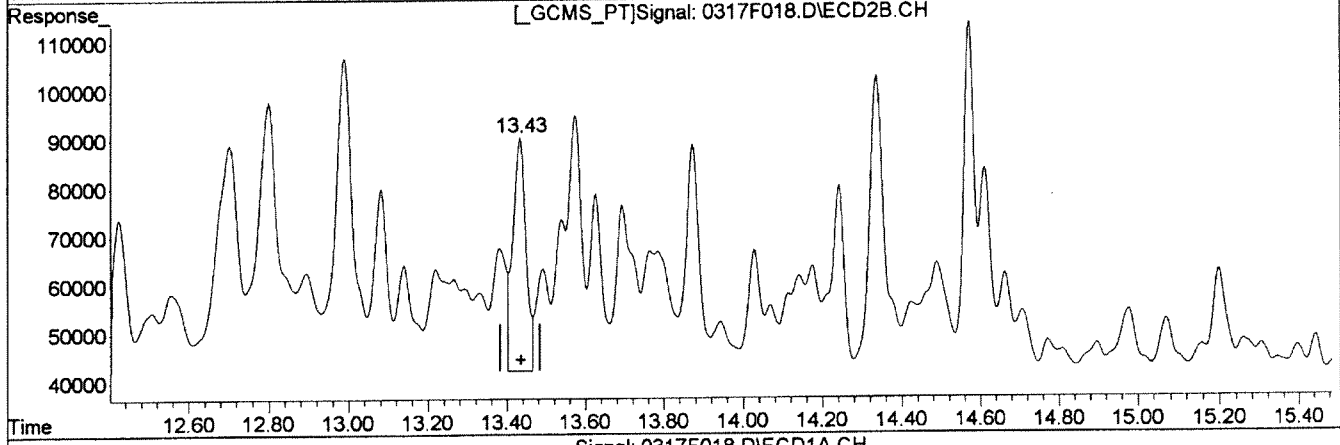
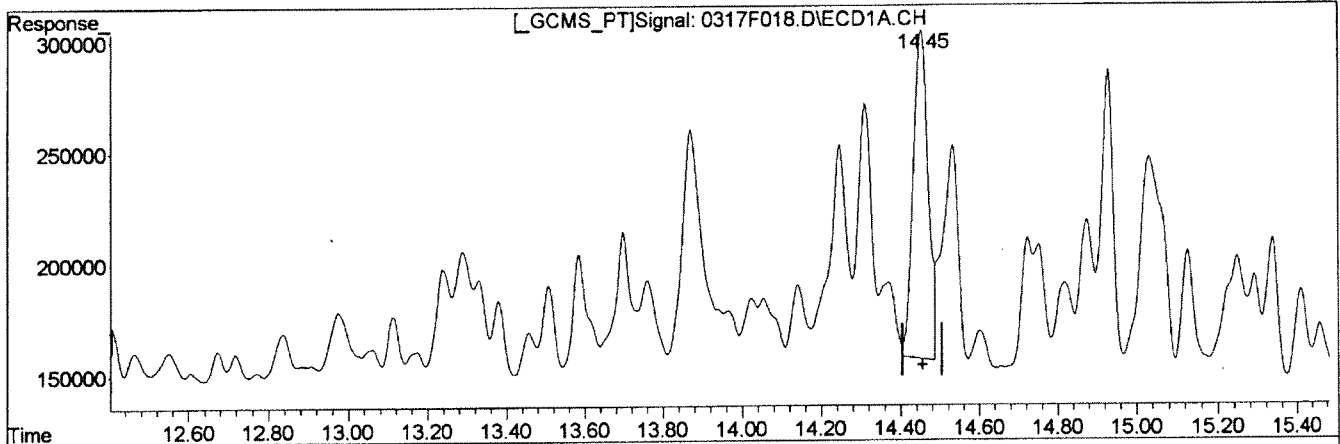
(31) Toxaphene {2}	Manual Integration:
14.31min 1003.510ug/L m	After
response 166365	Baseline/Shoulder
	03/18/14
(31) Toxaphene {2} #2	
13.08min 1007.600ug/L m	
response 48987	

(+) = Expected Retention Time
0317F018.D GC23-031714-8081.M Tue Mar 18 16:30:59 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:29:39 2014
Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response	Integration Status	Date
14.45	1014.628	393942	Manual Integration: Before	03/18/14
13.43	1702.123	111638		

(+) = Expected Retention Time

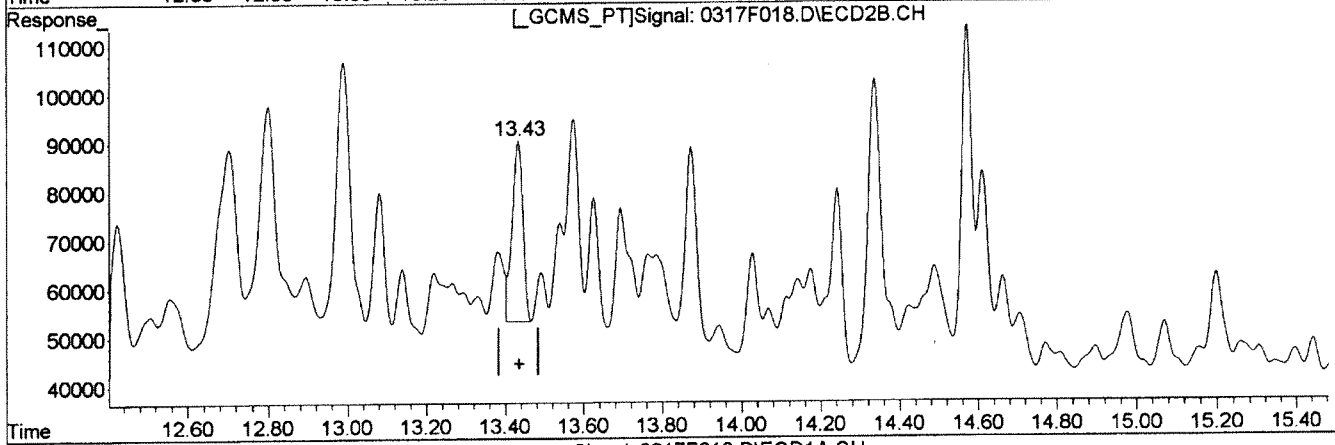
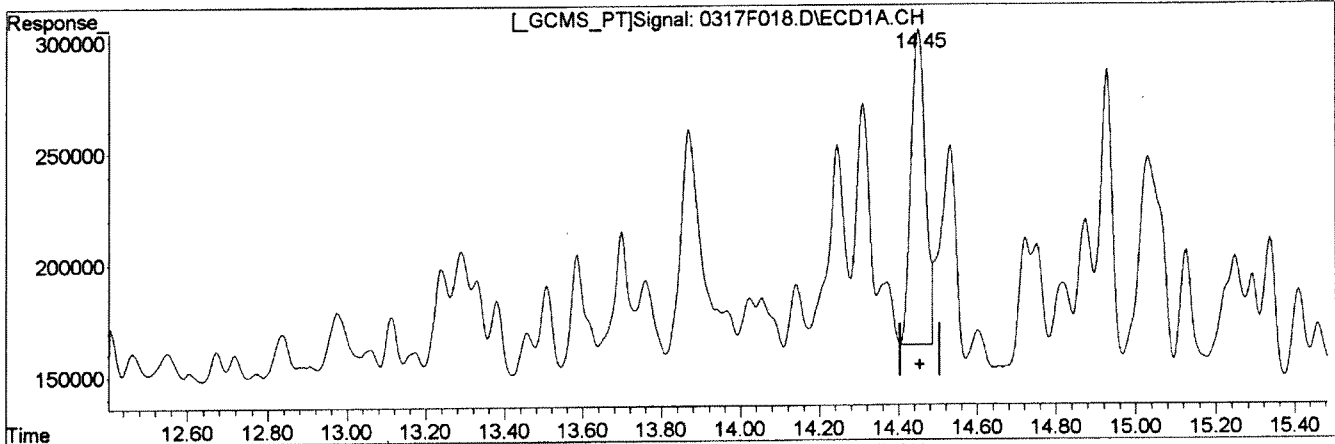
(+) = Expected Retention Time
0317F018.D GC23-031714-8081.M

Tue Mar 18 16:31:00 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:29:39 2014
Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH

Retention Time	Concentration	Response	Integration	Date
(32) Toxaphene (3) 14.45min	937.082ug/L m	363834	Manual Integration: After Baseline/Shoulder	03/18/14
(32) Toxaphene (3) #2 13.43min	1066.225ug/L m	69931		

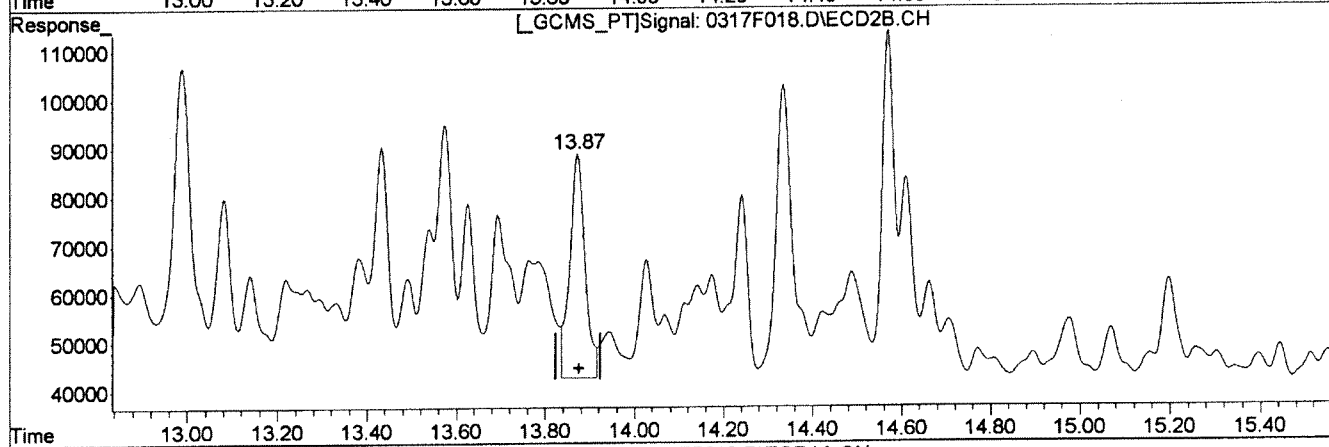
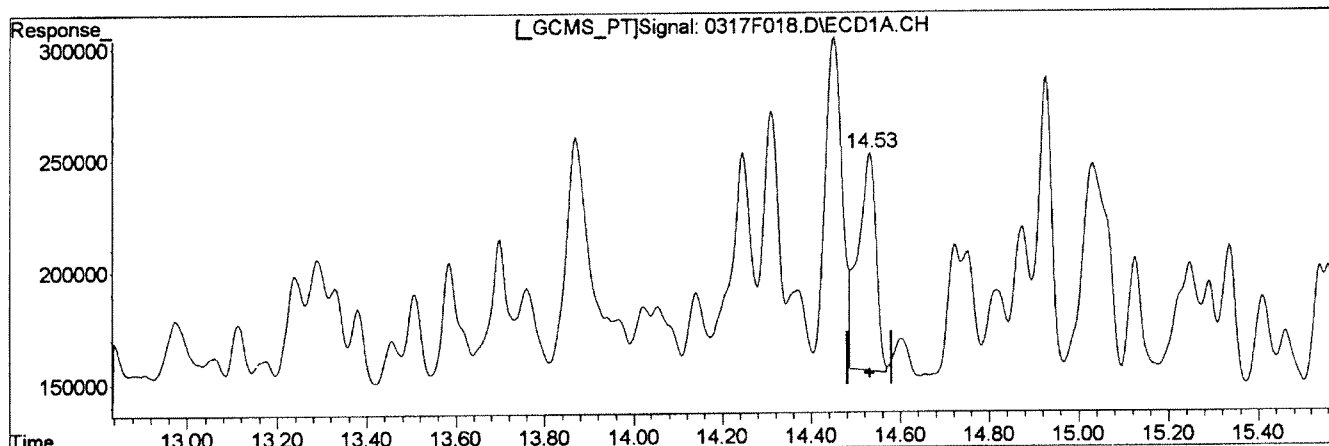
(+) = Expected Retention Time
0317F018.D GC23-031714-8081.M

Tue Mar 18 16:31:09 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:29:39 2014
Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH

(33) Toxaphene (4)	Manual Integration:
14.53min 1094.892ug/L	Before
response 270614	03/18/14
(33) Toxaphene (4) #2	
13.87min 1368.466ug/L	
response 109052	

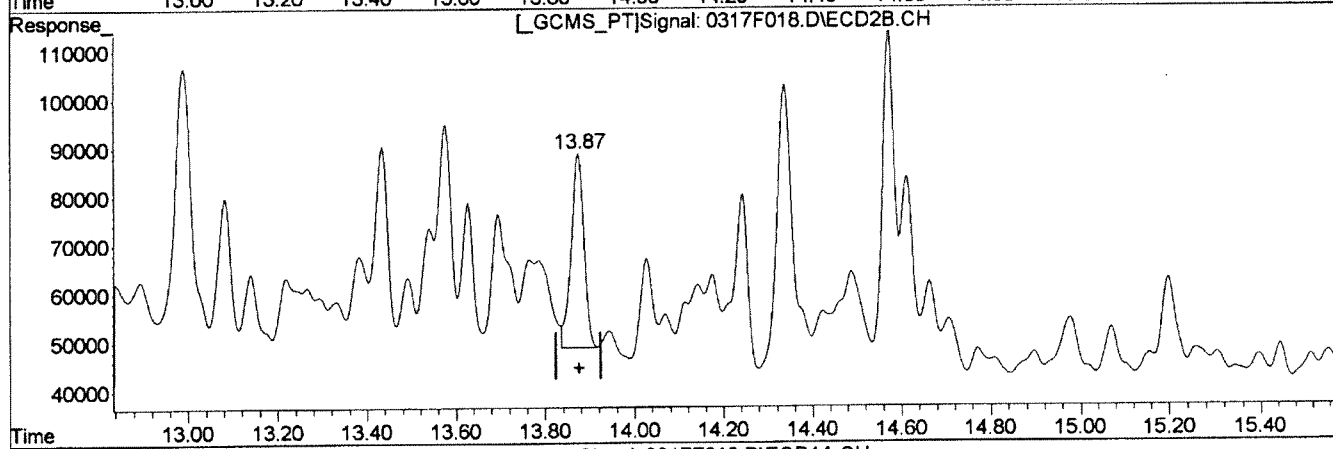
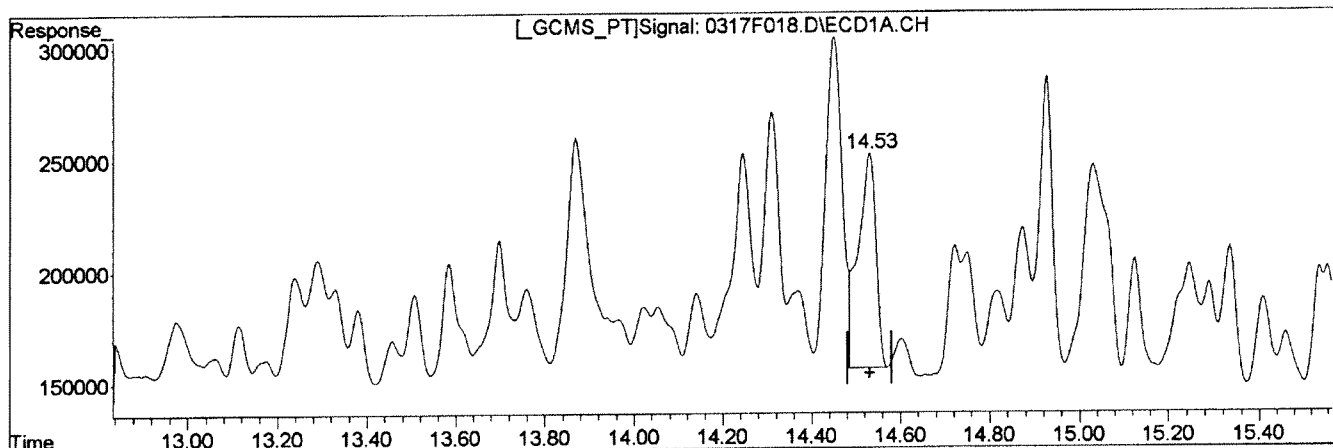
(+) = Expected Retention Time
0317F018.D GC23-031714-8081.M

Tue Mar 18 16:31:10 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
 Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:29:39 2014
 Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH		Manual Integration:
(33) Toxaphene (4)		After
14.53min	1068.561ug/L m	Baseline/Shoulder
response	264106	03/18/14
(33) Toxaphene (4) #2		
13.87min	997.914ug/L m	
response	79523	

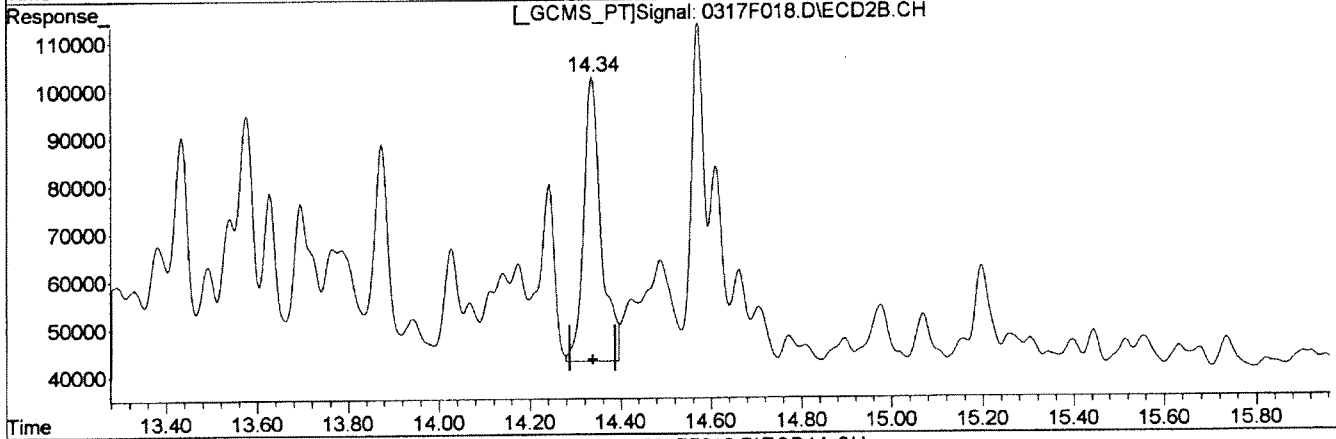
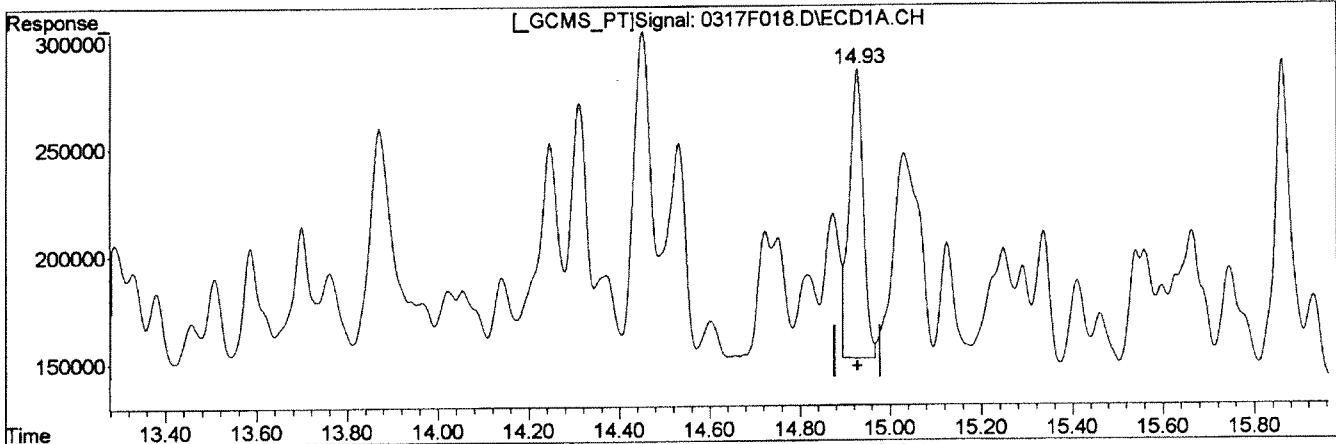
(+) = Expected Retention Time
 0317F018.D GC23-031714-8081.M

Tue Mar 18 16:31:19 2014

Quantitation Report (Qedit)

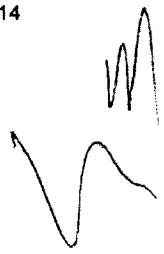
Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:29:39 2014
Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH

Retention Time	Concentration	Response	Integration Status	Date
(34) Toxaphene (5)			Manual Integration:	
14.93min	1134.746ug/L	286032	Before	
(34) Toxaphene (5) #2				03/18/14
14.34min	1068.801ug/L	158647		



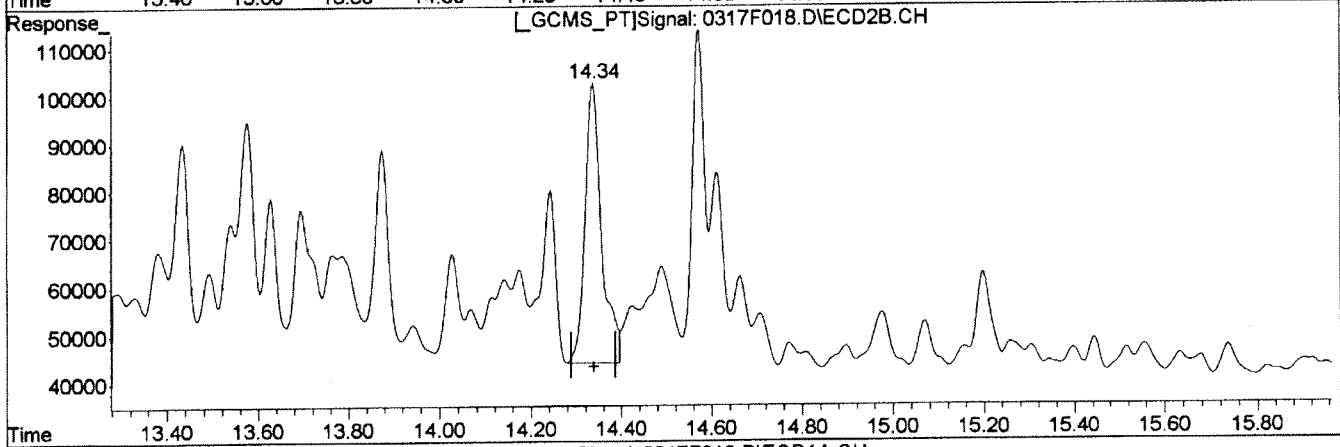
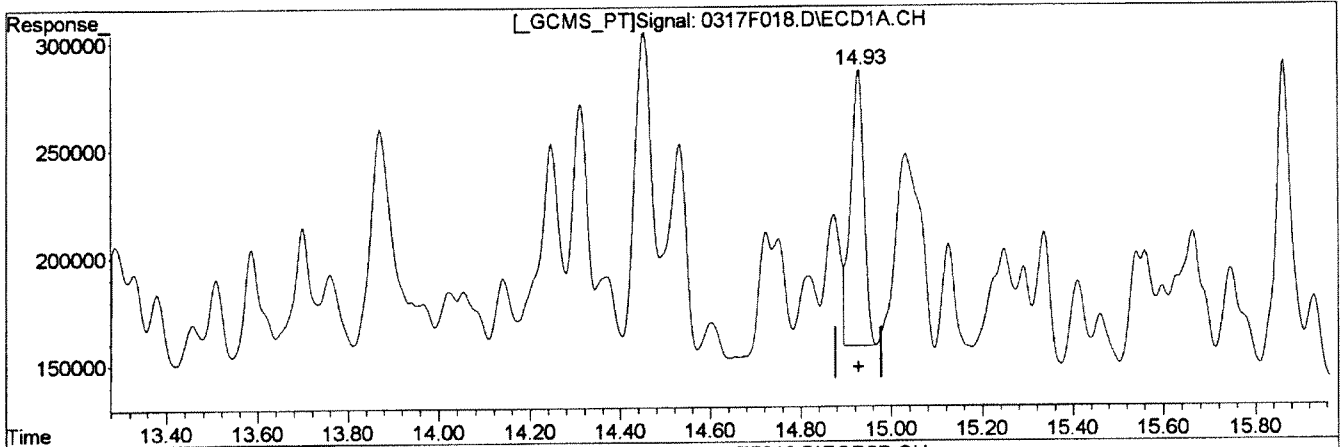
(+) = Expected Retention Time
0317F018.D GC23-031714-8081.M

Tue Mar 18 16:31:20 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:29:39 2014
Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH

(34) Toxaphene (5)	Manual Integration:
14.93min 1028.310ug/L m	After
response 259203	Baseline/Shoulder
	03/18/14
(34) Toxaphene (5) #2	
14.34min 1013.268ug/L m	
response 150404	

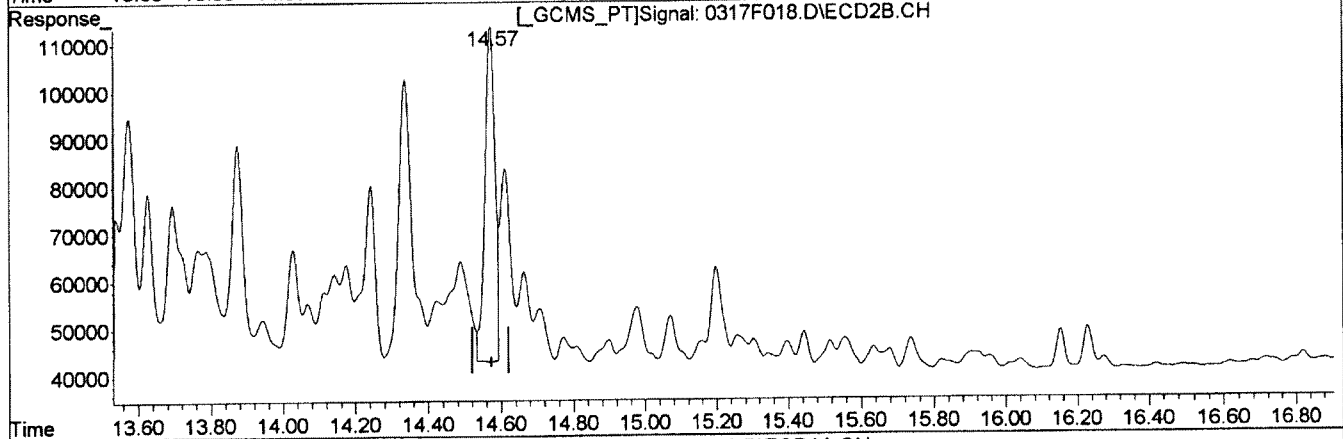
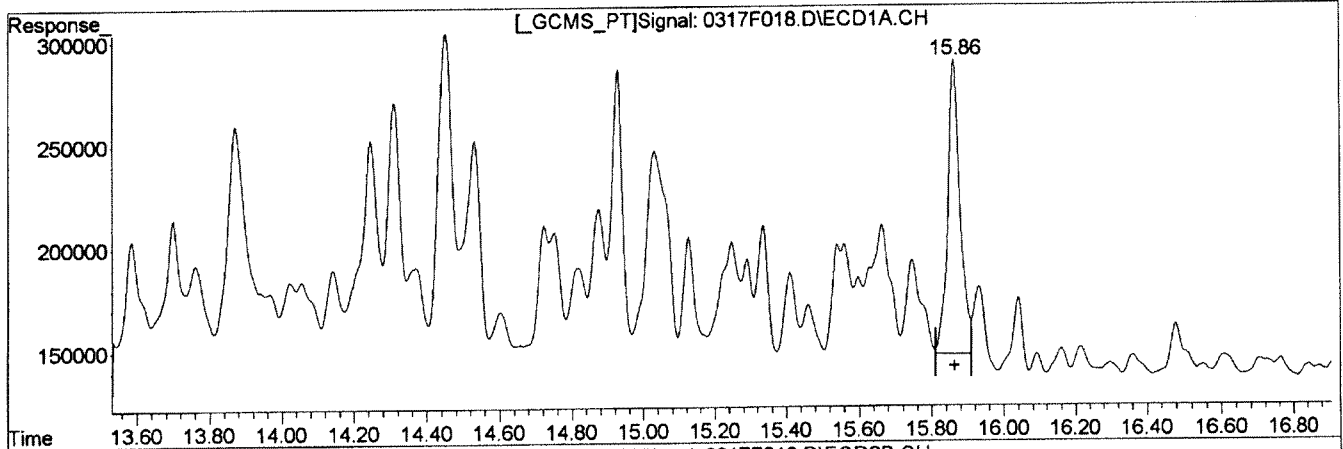
(+) = Expected Retention Time
0317F018.D GC23-031714-8081.M

Tue Mar 18 16:31:35 2014



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
 Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:29:39 2014
 Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH

(35) Toxaphene (6)	Manual Integration:
15.86min 1029.408ug/L	Before
response 343348	03/18/14 
(35) Toxaphene (6) #2	
14.57min 1262.947ug/L	
response 136598	

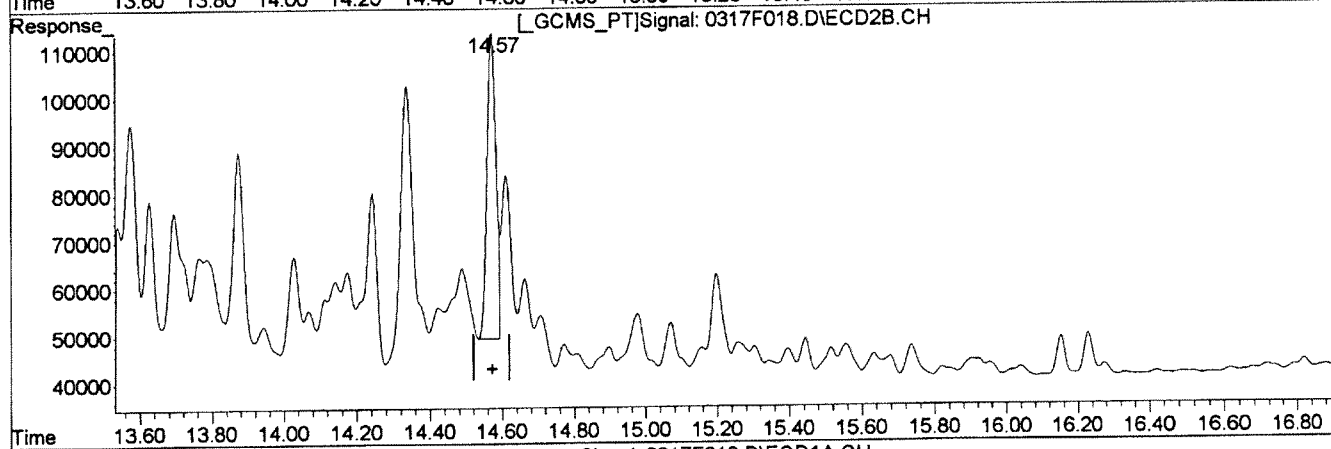
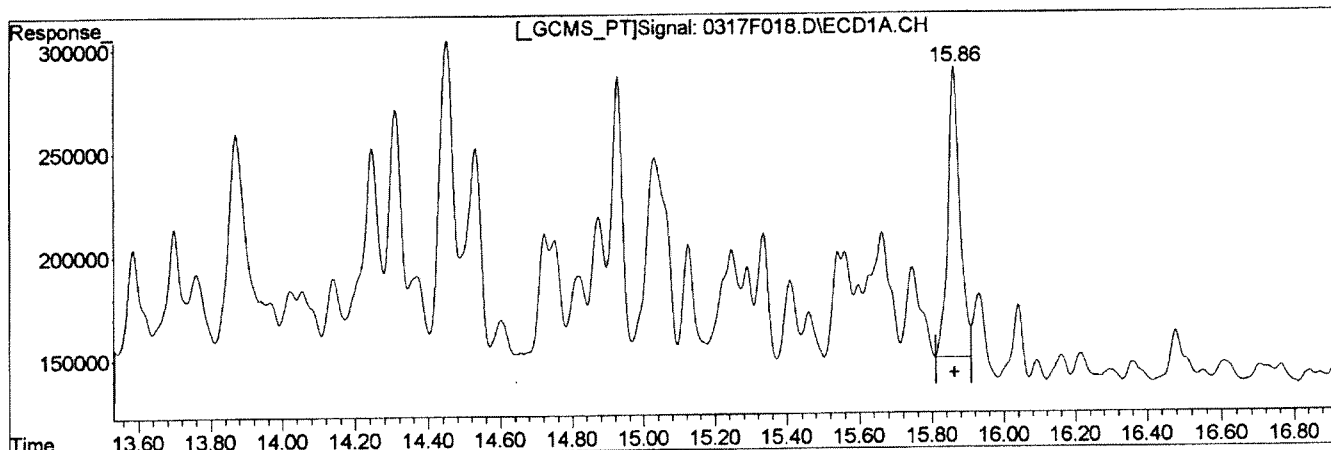
(+) = Expected Retention Time
 0317F018.D GC23-031714-8081.M

Tue Mar 18 16:31:36 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD1A.CH Vial: 86
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F018.D\ECD2B.CH
 Acq On : 17 Mar 2014 9:18 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-79L Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:30 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:29:39 2014
 Response via : Multiple Level Calibration



Signal: 0317F018.D\ECD1A.CH

(35) Toxaphene (6)	Manual Integration:
15.86min 1001.535ug/L m	After
response 334051	Baseline/Shoulder
	03/18/14
(35) Toxaphene (6) #2	
14.57min 1059.042ug/L m	
response 114544	

(+) = Expected Retention Time
 0317F018.D GC23-031714-8081.M

Tue Mar 18 16:31:46 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F020.D\ECD1A.CH Vial: 88
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F020.D\ECD2B.CH
 Acq On : 17 Mar 2014 10:15 pm Operator: SMURRAY
 Sample : CHLOR @ 50ppb GCPS7-78B 25ppb 85 Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:16:53 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:16:32 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
36) 1-Bromo-2-nitrob	5.92	5.39	1647186	610012	100.000	100.000

System Monitoring Compounds

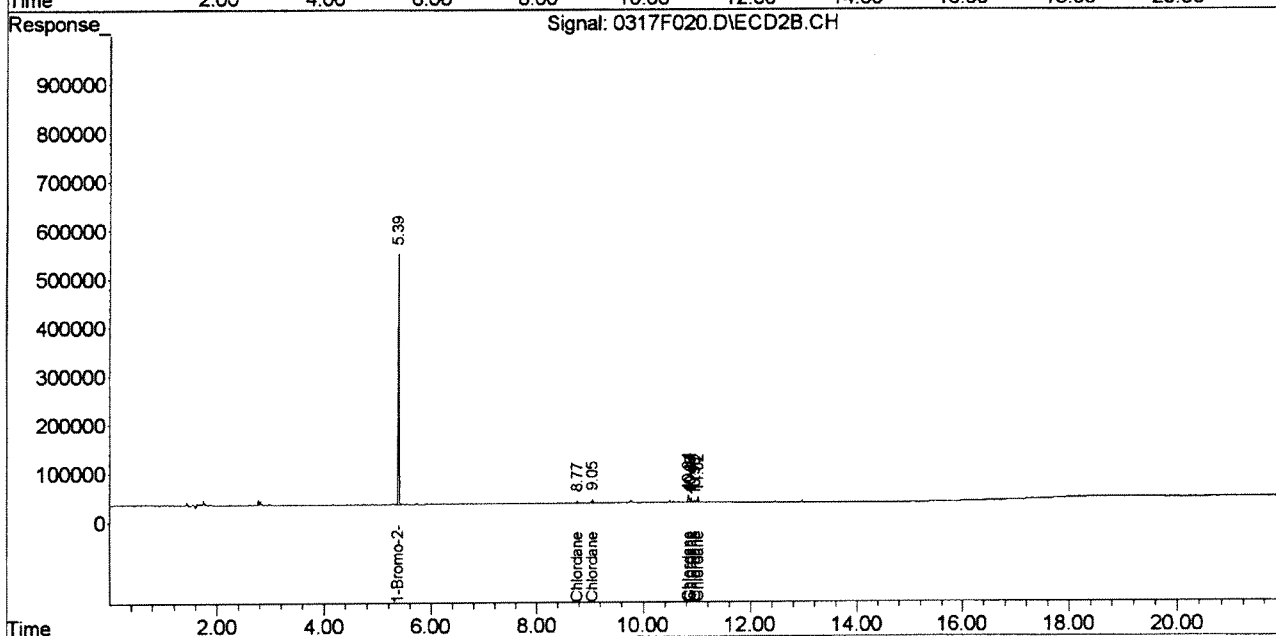
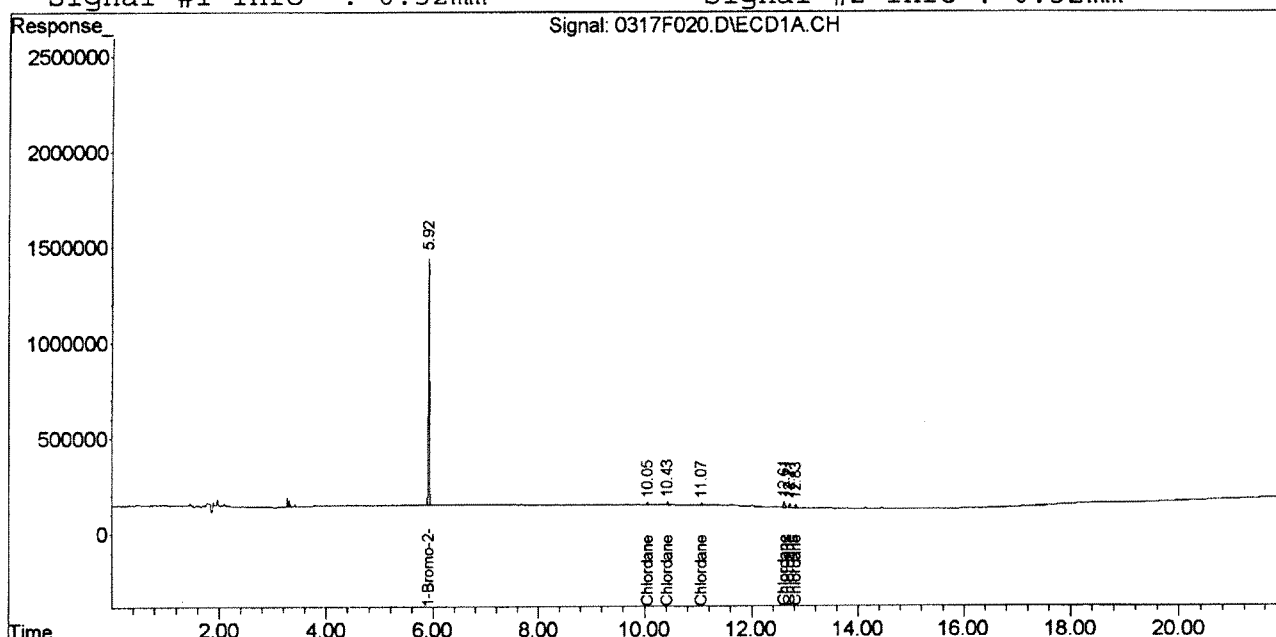
Target Compounds						
37) Chlordane	10.05	8.77	21993	7107	32.688	26.615
38) Chlordane {2}	10.43	9.05	32210	10979	26.988	15.531 #
39) Chlordane {3}	11.07	10.84	23321	23929	34.696	24.771 #
40) Chlordane {4}	12.61	10.89	71918	15105	21.245	26.120
41) Chlordane {5}	12.71	10.96	56589	8068	21.222	25.024
42) Chlordane {6}	12.83	11.02	42286	20344	20.353	25.971 #

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F020.D\ECD1A.CH Vial: 88
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F020.D\ECD2B.CH
 Acq On : 17 Mar 2014 10:15 pm Operator: SMURRAY
 Sample : CHLOR @ 50ppb GCPS7-78B Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:34 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:16:32 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F021.D\ECD1A.CH Vial: 89
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F021.D\ECD2B.CH
 Acq On : 17 Mar 2014 10:44 pm *50 ppb ES* Operator: SMURRAY
 Sample : CHLOR @ ~~100ppb~~ GCPS7-78C Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:16:55 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:16:32 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

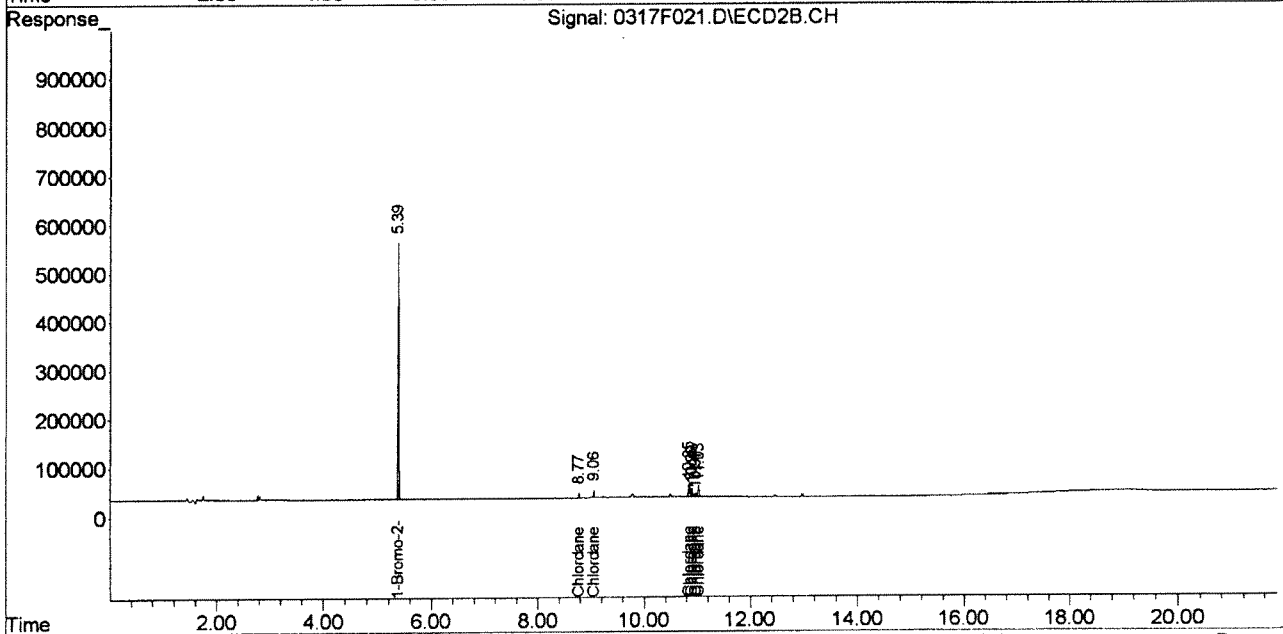
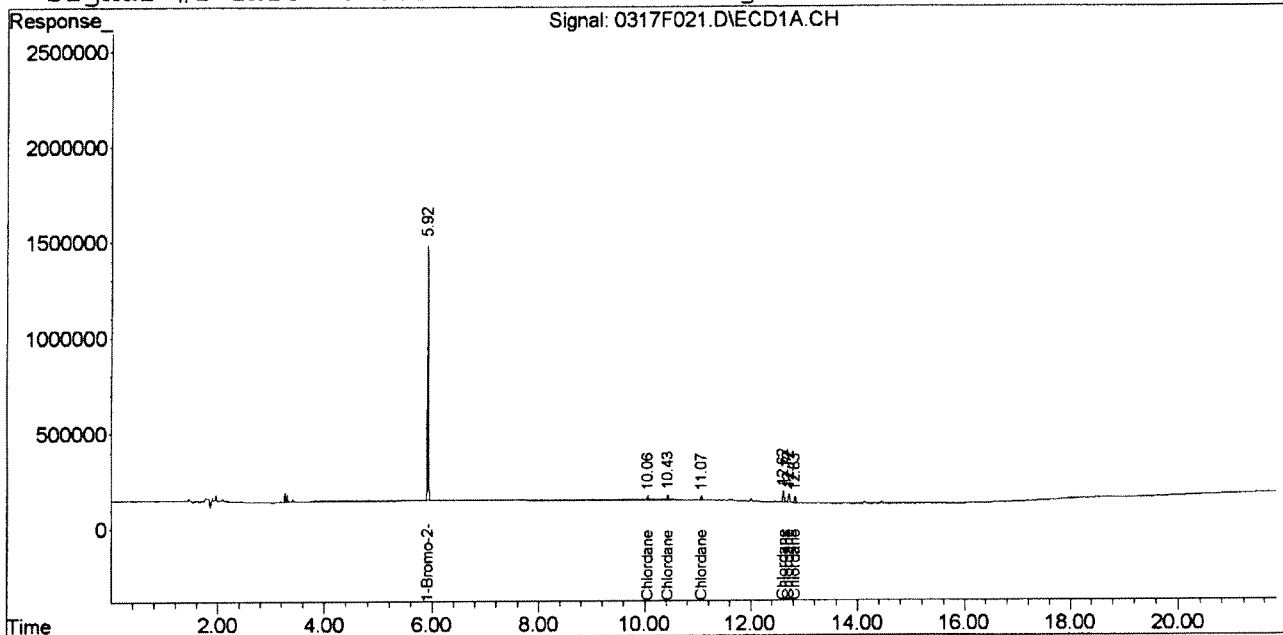
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
36) 1-Bromo-2-nitrob	5.92	5.39	1692246	627171	100.000	100.000
System Monitoring Compounds						
Target Compounds						
37) Chlordane	10.06	8.77	41055	13761	59.395	50.124
38) Chlordane {2}	10.43	9.06	58896	20937	48.034	38.170
39) Chlordane {3}	11.07	10.85	44222	46478	64.188	46.797 #
40) Chlordane {4}	12.62	10.90	137080	29187	48.093	49.090
41) Chlordane {5}	12.72	10.97	103977	15817	48.252	47.717
42) Chlordane {6}	12.83	11.03	78470	39006	47.421	48.432

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F021.D\ECD1A.CH Vial: 89
Signal #2 : J:\GC23\DATA\031714ICAL\0317F021.D\ECD2B.CH
Acq On : 17 Mar 2014 10:44 pm Operator: SMURRAY
Sample : CHLOR @ 100ppb GCPS7-78C Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:34 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:16:32 2014
Response via : Multiple Level Calibration
DataAcq Meth : PESTNEW.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0319FX05.D\ECD1A.CH Vial: 98
 Signal #2 : J:\GC23\DATA\031714ICAL\0319FX05.D\ECD2B.CH
 Acq On : 19 Mar 2014 4:15 pm Operator: SMURRAY
 Sample : CHLOR @100PPB GCPS7-78C Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 17:19:18 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 17:18:14 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

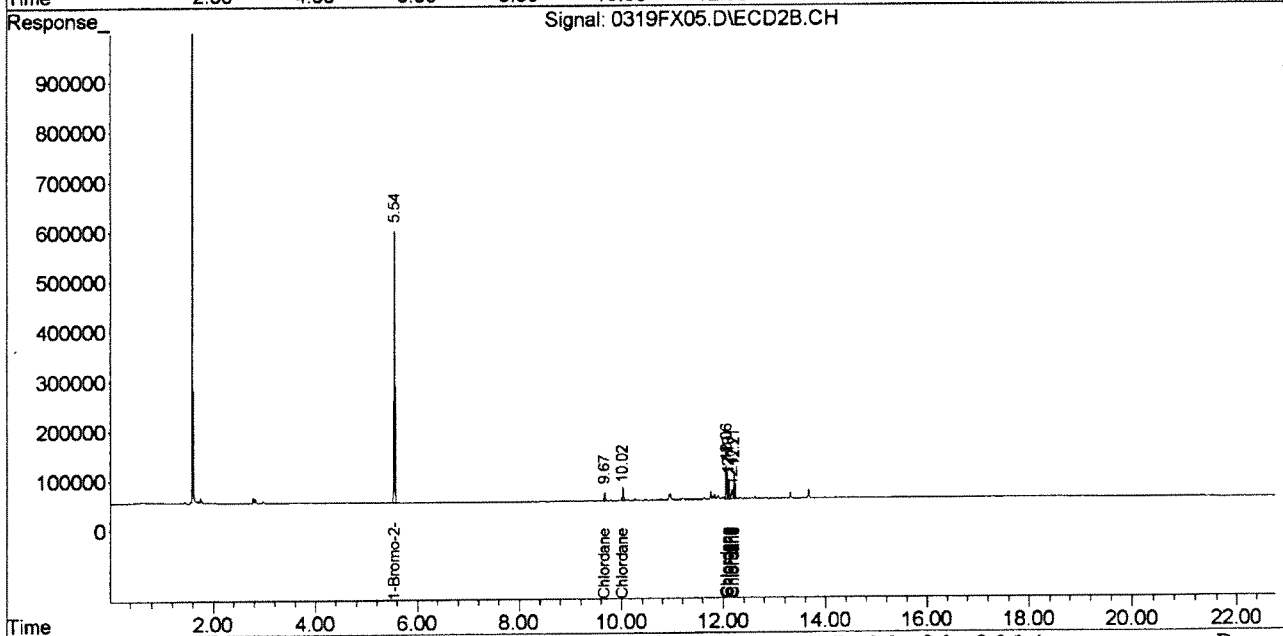
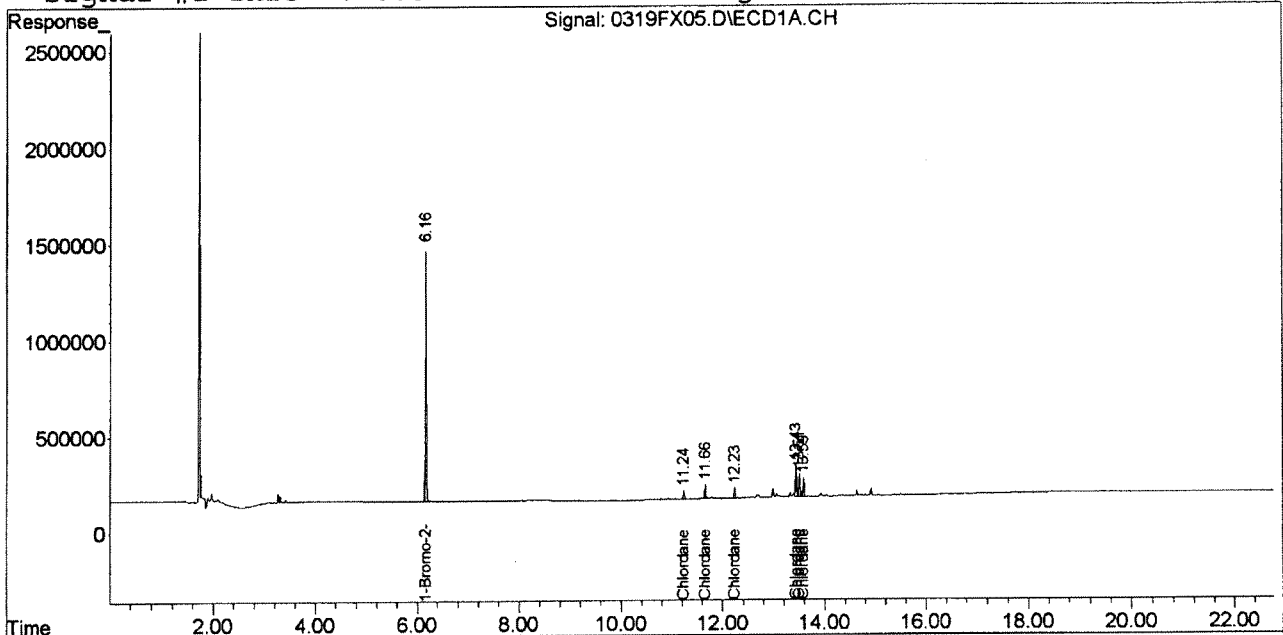
Internal Standards						
36) 1-Bromo-2-nitrob	6.16	5.54	1907352	693444	100.000	100.000
System Monitoring Compounds						
Target Compounds						
37) Chlordane	11.24	9.67	86398	27992	120.092	115.883
38) Chlordane {2}	11.66	10.02	136010	45227	127.308	119.064
39) Chlordane {3}	12.23	12.06	90201	98993	119.950	116.408
40) Chlordane {4}	13.43	12.10	289907	58767	115.704	113.445
41) Chlordane {5}	13.51	12.17	215000	33385	115.316	116.637
42) Chlordane {6}	13.59	12.21	157022	80394	115.373	114.744

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0319FX05.D\ECD1A.CH Vial: 98
Signal #2 : J:\GC23\DATA\031714ICAL\0319FX05.D\ECD2B.CH
Acq On : 19 Mar 2014 4:15 pm Operator: SMURRAY
Sample : CHLOR @100PPB GCPS7-78C Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 17:19 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 17:18:14 2014
Response via : Multiple Level Calibration
DataAcq Meth : PEST1UL.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F023.D\ECD1A.CH Vial: 91
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F023.D\ECD2B.CH
 Acq On : 17 Mar 2014 11:42 pm Operator: SMURRAY
 Sample : CHLOR @ ~~1000ppb~~ GCPS7-78D *500ppb* Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H *EE* Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:16:58 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:16:32 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

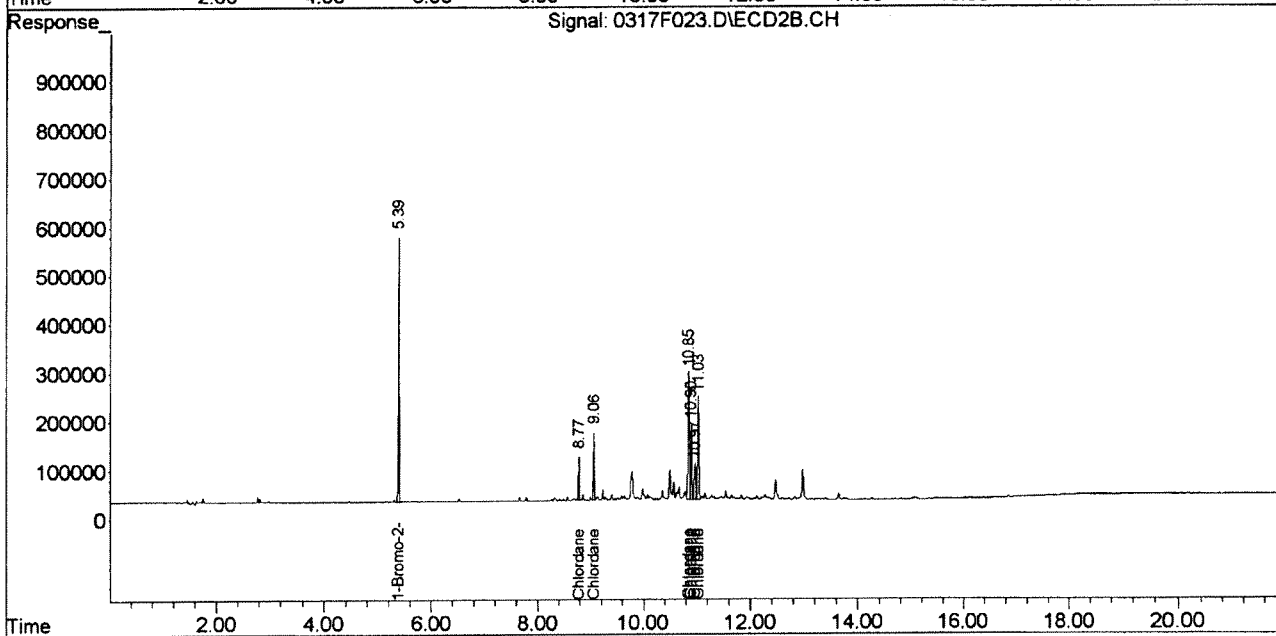
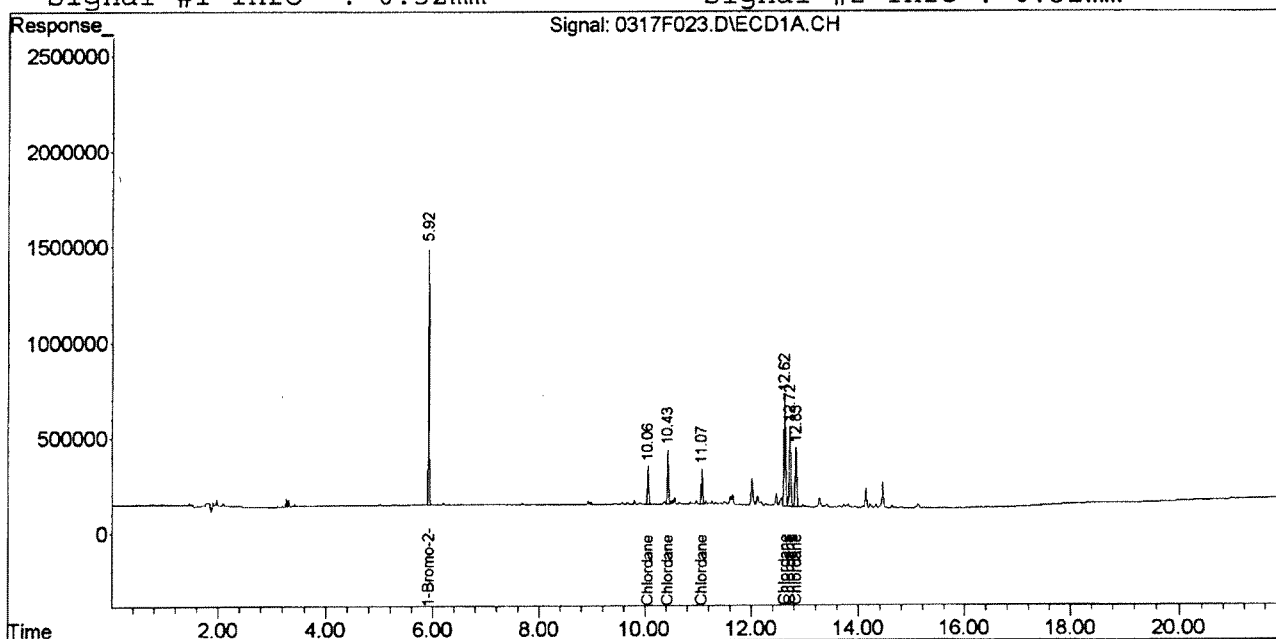
Internal Standards						
36) 1-Bromo-2-nitrob	5.92	5.39	1714716	635053	100.000	100.000
System Monitoring Compounds						
Target Compounds						
37) Chlordane	10.06	8.77	348051	122786	496.936	441.691
38) Chlordane {2}	10.43	9.06	514938	197161	414.464	447.694
39) Chlordane {3}	11.07	10.85	354123	452763	526.393	450.217
40) Chlordane {4}	12.62	10.90	1238868	265083	517.919	440.311
41) Chlordane {5}	12.72	10.97	903052	152232	522.808	453.556
42) Chlordane {6}	12.83	11.03	641847	365259	489.807	447.900

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F023.D\ECD1A.CH Vial: 91
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F023.D\ECD2B.CH
 Acq On : 17 Mar 2014 11:42 pm Operator: SMURRAY
 Sample : CHLOR @ 1000ppb GCPS7-78D Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:35 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:16:32 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F024.D\ECD1A.CH Vial: 92
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F024.D\ECD2B.CH
 Acq On : 18 Mar 2014 12:11 am Operator: SMURRAY
 Sample : CHLOR @ ~~2000ppb~~ ^{1000ppb} GCPS7-79G Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:17:00 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:16:32 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

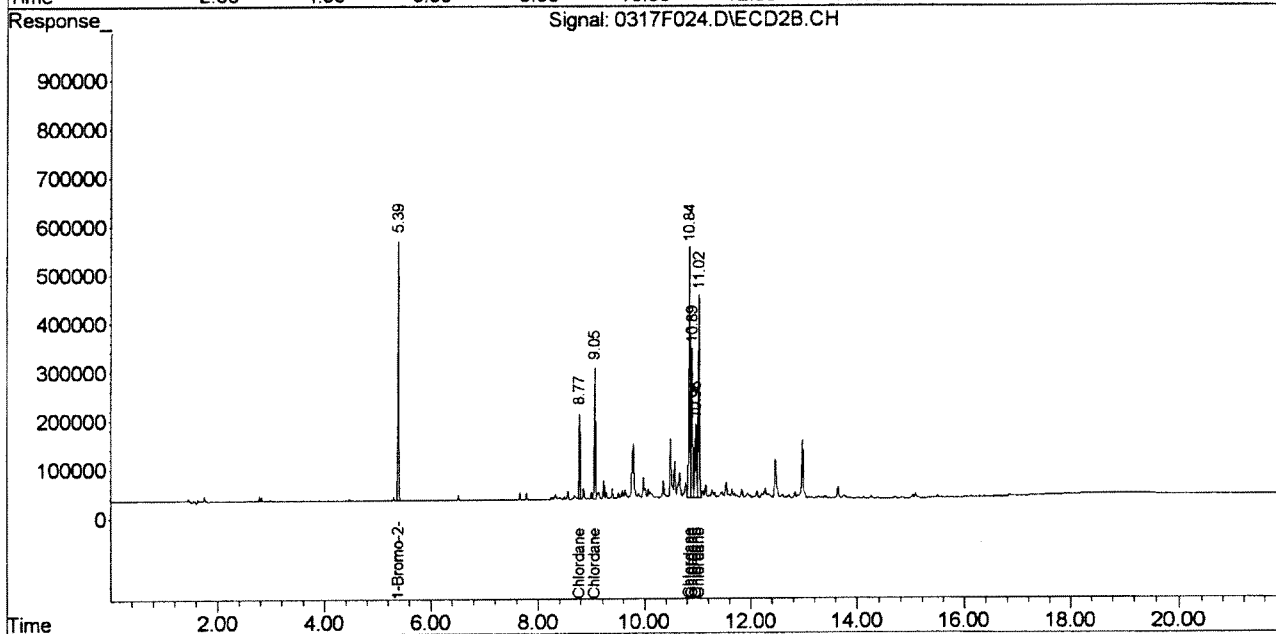
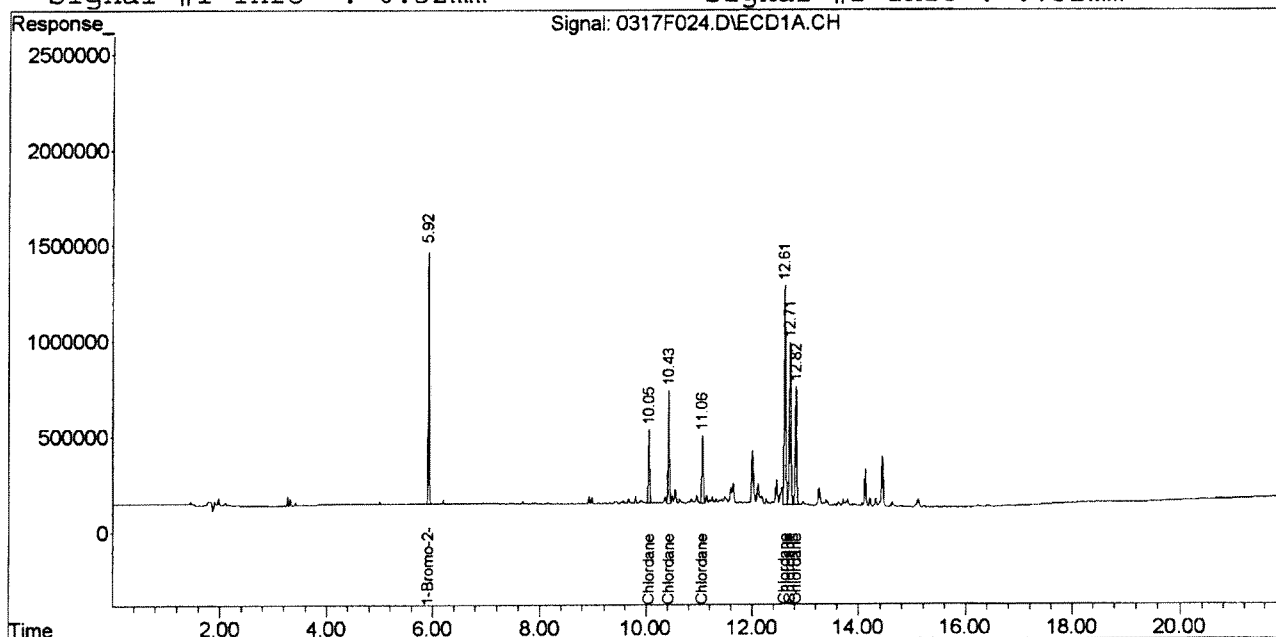
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
36) 1-Bromo-2-nitrob	5.92	5.39	1687125	628829	100.000	100.000
System Monitoring Compounds						
Target Compounds						
37) Chlordane	10.05	8.77	669551	242757	971.596	881.899
38) Chlordane {2}	10.43	9.05	1050344	395882	859.229	923.631
39) Chlordane {3}	11.06	10.84	677354	897066	1070.875	900.850
40) Chlordane {4}	12.61	10.89	2542328	528521	1116.515	886.579
41) Chlordane {5}	12.71	10.96	1793115	298290	1096.537	897.513
42) Chlordane {6}	12.82	11.02	1253759	717757	1022.172	888.864

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F024.D\ECD1A.CH Vial: 92
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F024.D\ECD2B.CH
 Acq On : 18 Mar 2014 12:11 am Operator: SMURRAY
 Sample : CHLOR @ 2000ppb GCPS7-79G Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:36 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:16:32 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0319FX06.D\ECD1A.CH Vial: 99
 Signal #2 : J:\GC23\DATA\031714ICAL\0319FX06.D\ECD2B.CH
 Acq On : 19 Mar 2014 4:44 pm Operator: SMURRAY
 Sample : CHLOR @2000PPB GCPS7-79G Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 17:20:30 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 17:20:08 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
36) 1-Bromo-2-nitrob	6.15	5.54	1822334	669389	100.000	100.000

System Monitoring Compounds

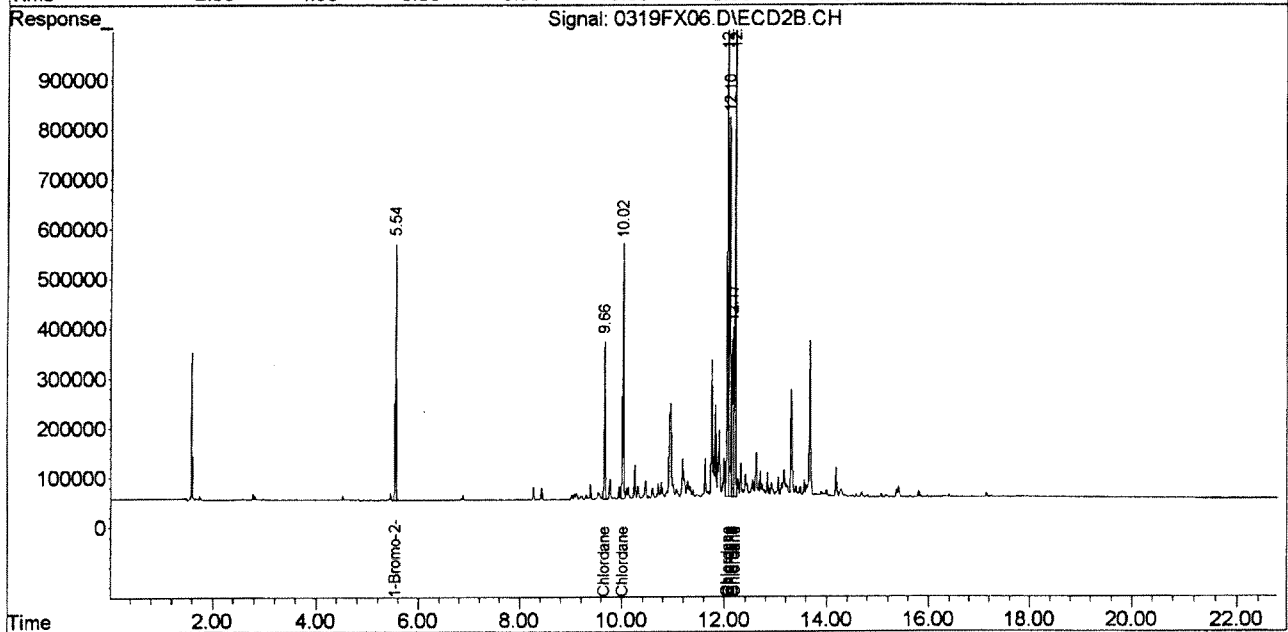
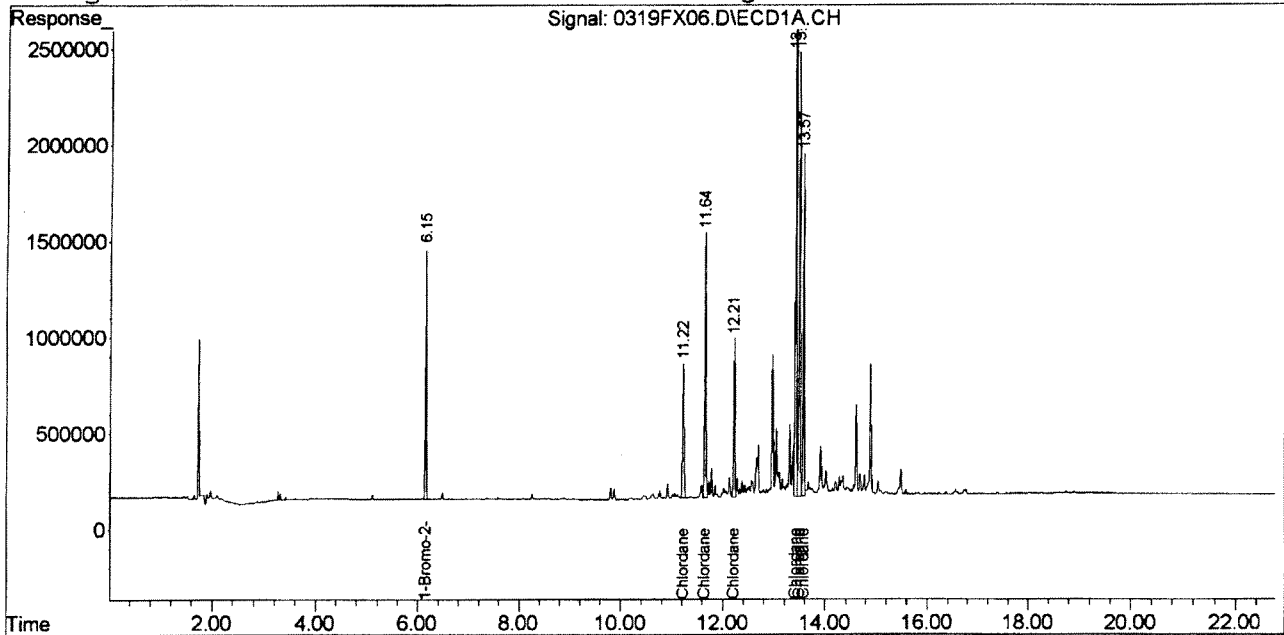
Target Compounds						
37) Chlordane	11.22	9.66	1399291	513585	1862.593	2024.141
38) Chlordane {2}	11.64	10.02	2426283	851467	2144.106	2117.039
39) Chlordane {3}	12.21	12.06	1358035	1906989	1734.984	2124.807
40) Chlordane {4}	13.42	12.10	5636803	1088944	2160.086	2006.606
41) Chlordane {5}	13.49	12.17	3964769	634022	2046.773	2100.272
42) Chlordane {6}	13.57	12.21	2785069	1494237	1975.884	2029.409

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0319FX06.D\ECD1A.CH Vial: 99
Signal #2 : J:\GC23\DATA\031714ICAL\0319FX06.D\ECD2B.CH
Acq On : 19 Mar 2014 4:44 pm Operator: SMURRAY
Sample : CHLOR @2000PPB GCPS7-79G Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 17:20 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 17:20:08 2014
Response via : Multiple Level Calibration
DataAcq Meth : PEST1UL.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0319FX07.D\ECD1A.CH Vial: 100
 Signal #2 : J:\GC23\DATA\031714ICAL\0319FX07.D\ECD2B.CH
 Acq On : 19 Mar 2014 5:14 pm Operator: SMURRAY
 Sample : CHLOR @1000PPB GCPS7-47D@1KX Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 19 17:43:30 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Wed Mar 19 17:24:24 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

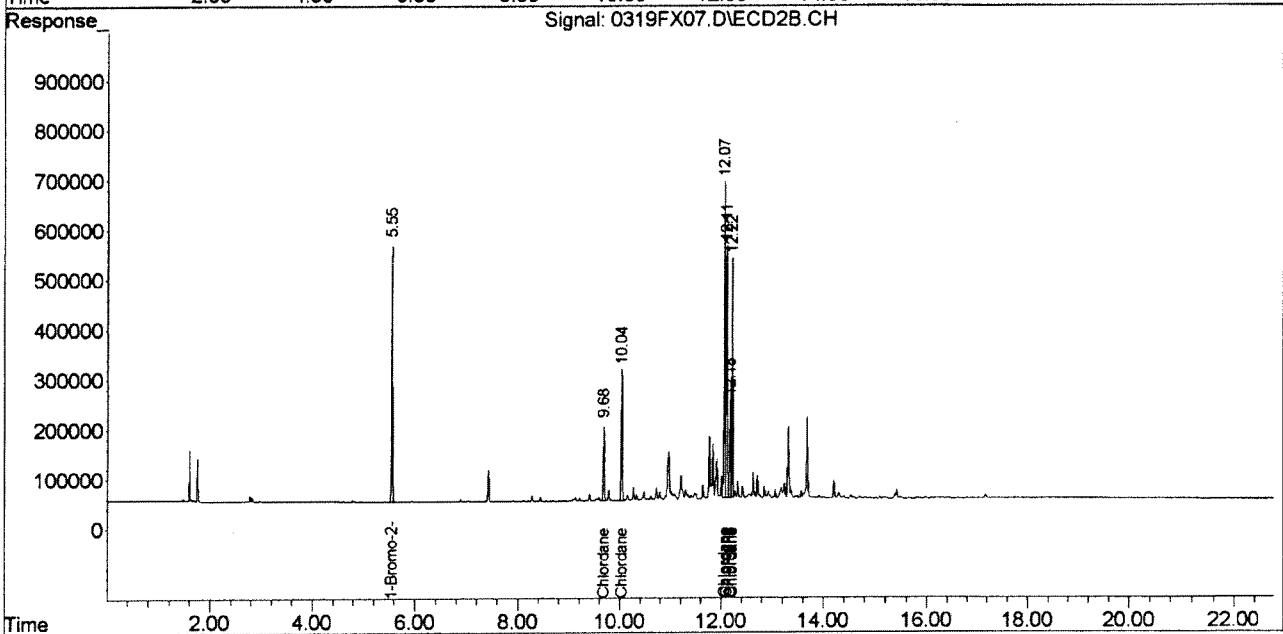
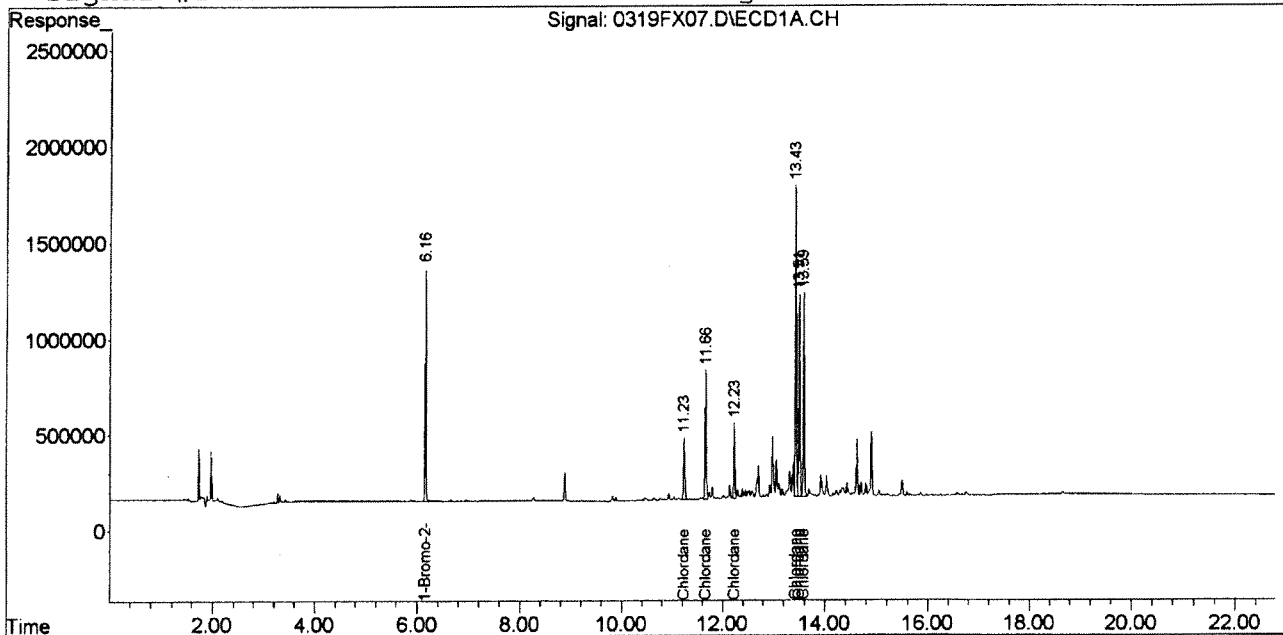
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
36) 1-Bromo-2-nitrob	6.16	5.55	1719793	656371	100.000	100.000
System Monitoring Compounds						
Target Compounds						
37) Chlordane	11.23	9.68	672419	240652	982.271	892.474
38) Chlordane {2}	11.66	10.04	1183765	441339	1012.179	1027.527
39) Chlordane {3}	12.23	12.07	644177	945339	930.214	986.960
40) Chlordane {4}	13.43	12.11	2827907	718816	1051.255	1249.824
41) Chlordane {5}	13.51	12.18	1801571	328339	906.418	1020.108
42) Chlordane {6}	13.59	12.22	1772435	694420	1228.516	888.417 #

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0319FX07.D\ECD1A.CH Vial: 100
Signal #2 : J:\GC23\DATA\031714ICAL\0319FX07.D\ECD2B.CH
Acq On : 19 Mar 2014 5:14 pm Operator: SMURRAY
Sample : CHLOR @1000PPB GCPS7-47D@1KX Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 19 17:43 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Wed Mar 19 17:24:24 2014
Response via : Multiple Level Calibration
DataAcq Meth : PEST1UL.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F026.D\ECD1A.CH Vial: 94
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F026.D\ECD2B.CH
 Acq On : 18 Mar 2014 1:08 am Operator: SMURRAY
 Sample : MISC @ 2ppb GCPS7-80C Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:15:39 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:15:22 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

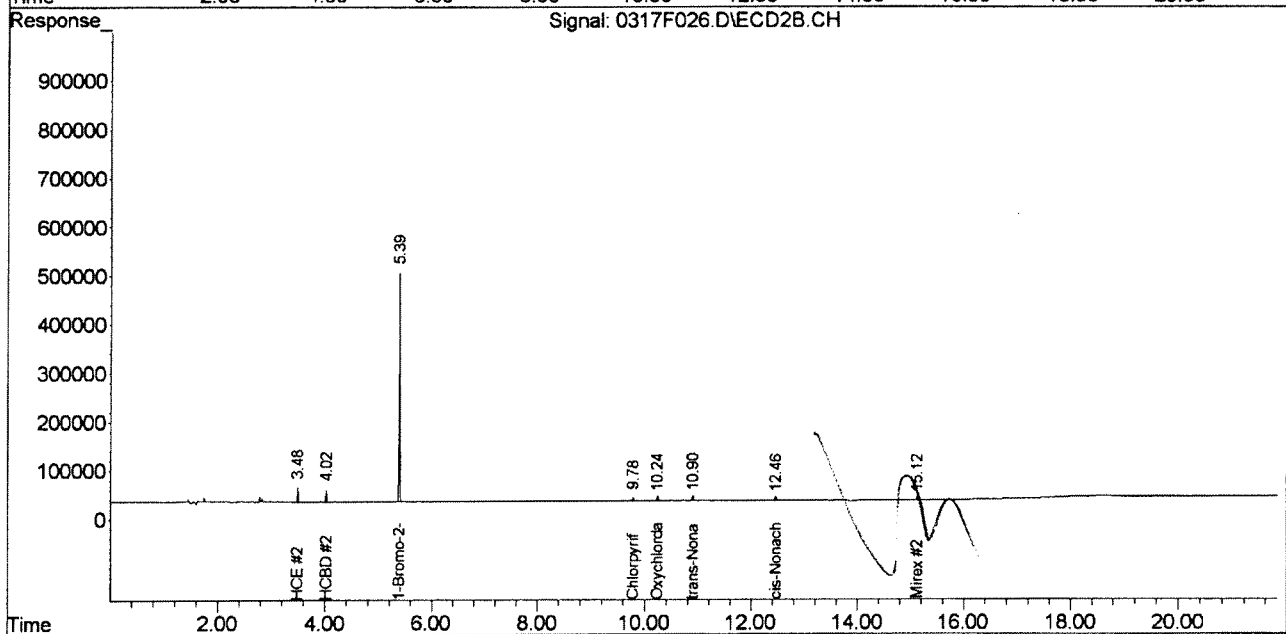
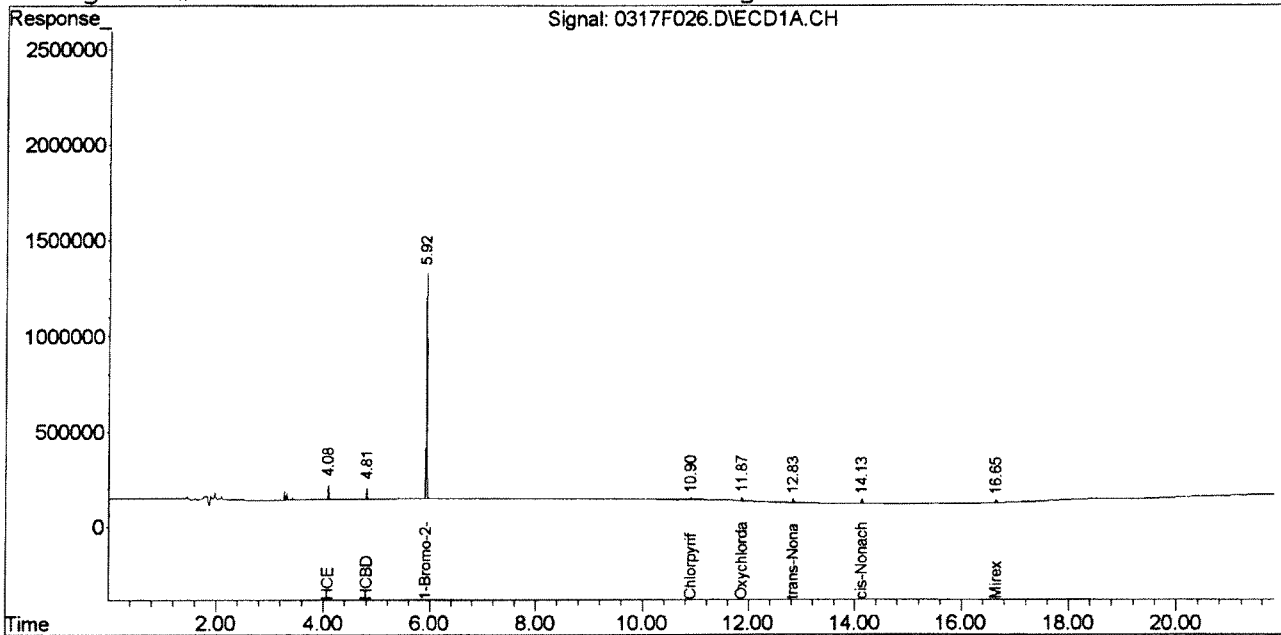
Internal Standards						
43) 1-Bromo-2-nitrob	5.92	5.39	1505977	560699	100.000	100.000
System Monitoring Compounds						
Target Compounds						
44) Chlorpyrifos	10.90	9.78	18891	8004	1.740	2.182 #
45) Oxychlordane	11.87	10.24	38560	15479	2.328m	2.492
46) cis-Nonachlor	14.13	12.46	44487	18437	2.116	2.365
47) trans-Nonachlor	12.83	10.90	46015	18319	2.310	2.417
48) Mirex	16.65	15.12	35417	15558	1.899	2.348
49) HCE	4.08	3.48	79641	27539	1.911	2.311
50) HCBd	4.81	4.02	66622	23996	2.548	2.585

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F026.D\ECD1A.CH Vial: 94
Signal #2 : J:\GC23\DATA\031714ICAL\0317F026.D\ECD2B.CH
Acq On : 18 Mar 2014 1:08 am Operator: SMURRAY
Sample : MISC @ 2ppb GCPS7-80C Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 17:00 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:15:22 2014
Response via : Multiple Level Calibration
DataAcq Meth : PESTNEW.M

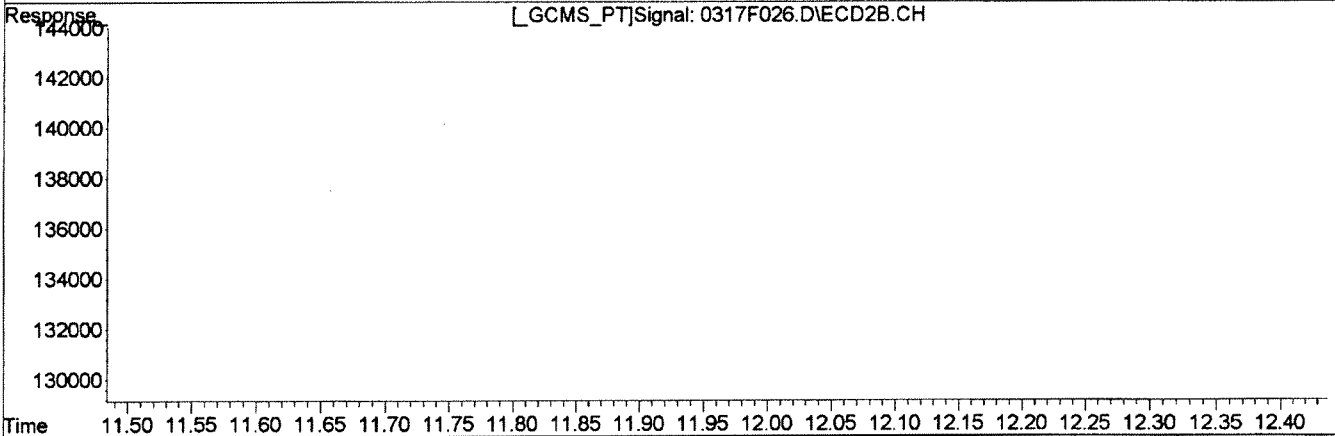
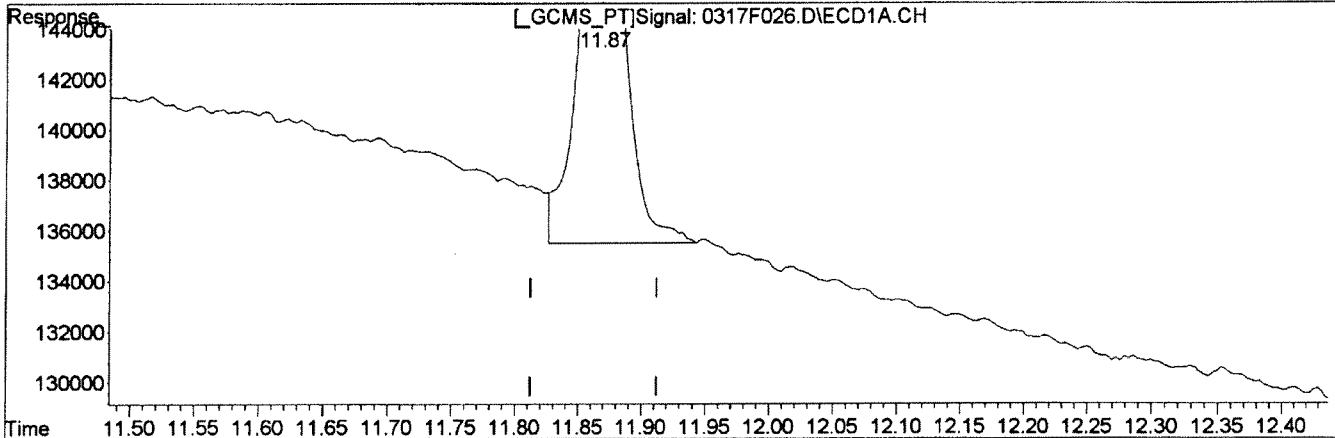
Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F026.D\ECD1A.CH Vial: 94
Signal #2 : J:\GC23\DATA\031714ICAL\0317F026.D\ECD2B.CH
Acq On : 18 Mar 2014 1:08 am Operator: SMURRAY
Sample : MISC @ 2ppb GCPS7-80C Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:15 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:39:39 2014
Response via : Multiple Level Calibration



Signal: 0317F026.D\ECD1A.CH	
(45) Oxychlordane	Manual Integration:
11.87min 2.770ug/L	Before
response 45827	03/18/14
(45) Oxychlordane #2	
10.24min 2.492ug/L	
response 15479	

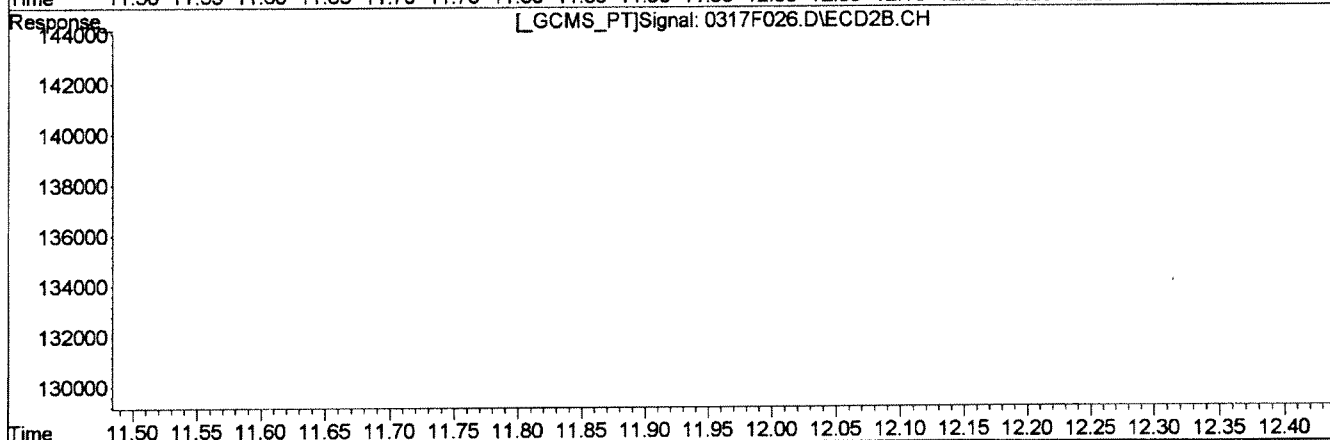
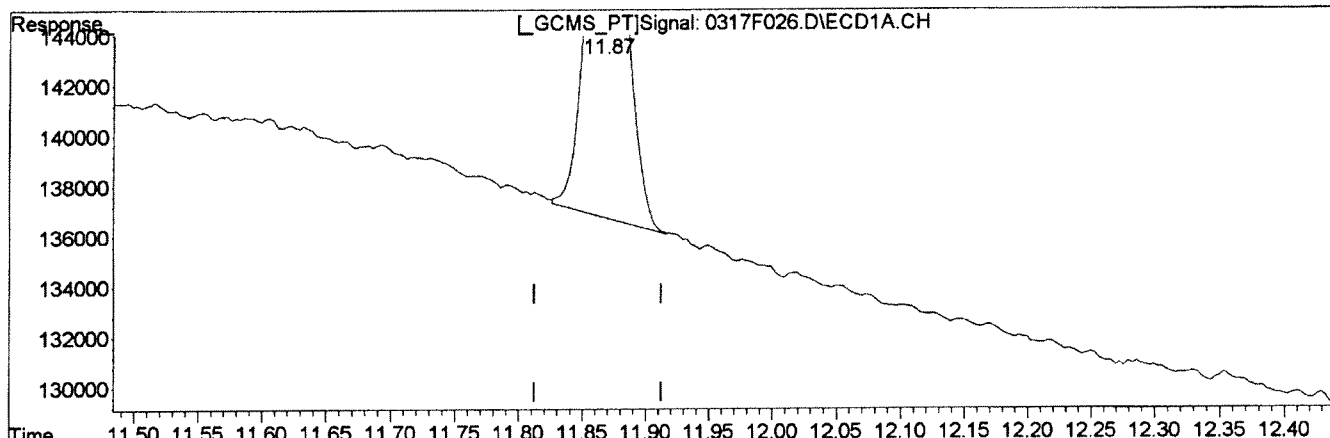
(+) = Expected Retention Time
0317F026.D GC23-031714-8081.M

Tue Mar 18 16:59:34 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F026.D\ECD1A.CH Vial: 94
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F026.D\ECD2B.CH
 Acq On : 18 Mar 2014 1:08 am Operator: SMURRAY
 Sample : MISC @ 2ppb GCPS7-80C Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:15 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:39:39 2014
 Response via : Multiple Level Calibration



Signal: 0317F026.D\ECD1A.CH		Manual Integration:
(45) Oxychlordane		After
11.87min 2.328ug/L m		Baseline/Shoulder
response 38560		03/18/14
(45) Oxychlordane #2		
10.24min 2.492ug/L		
response 15479		

(+) = Expected Retention Time
 0317F026.D GC23-031714-8081.M Tue Mar 18 16:59:37 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD1A.CH Vial: 95
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD2B.CH
 Acq On : 18 Mar 2014 1:37 am Operator: SMURRAY
 Sample : MISC @ 5ppb GCPS7-80D Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:15:41 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:15:22 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

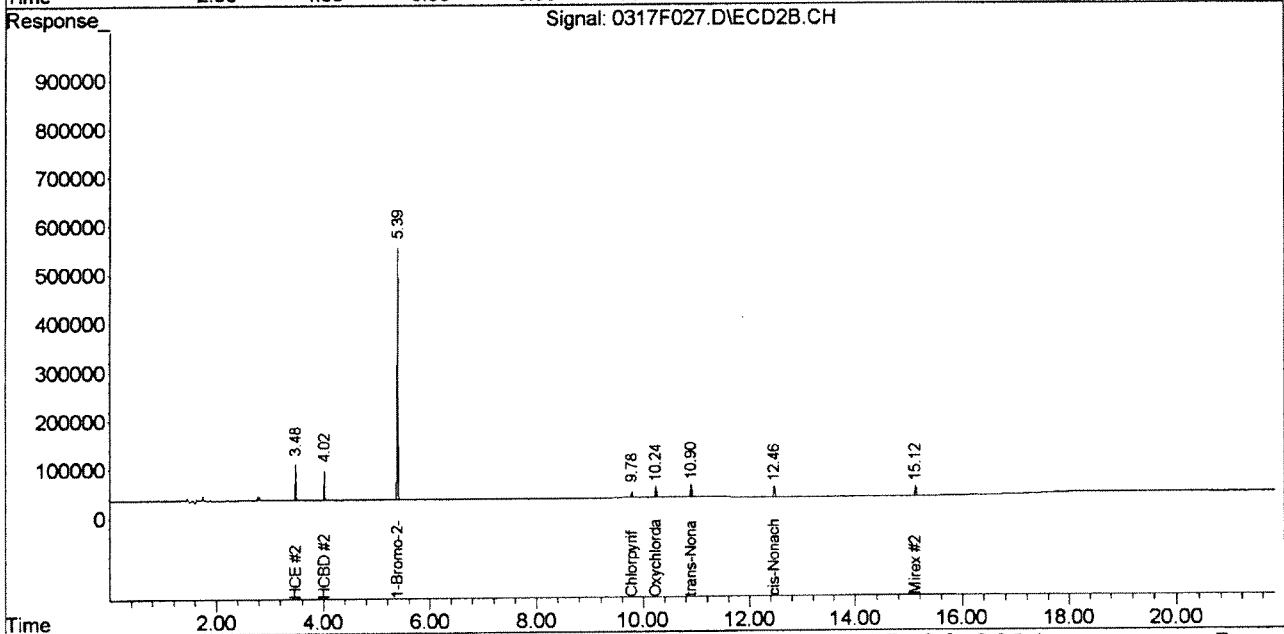
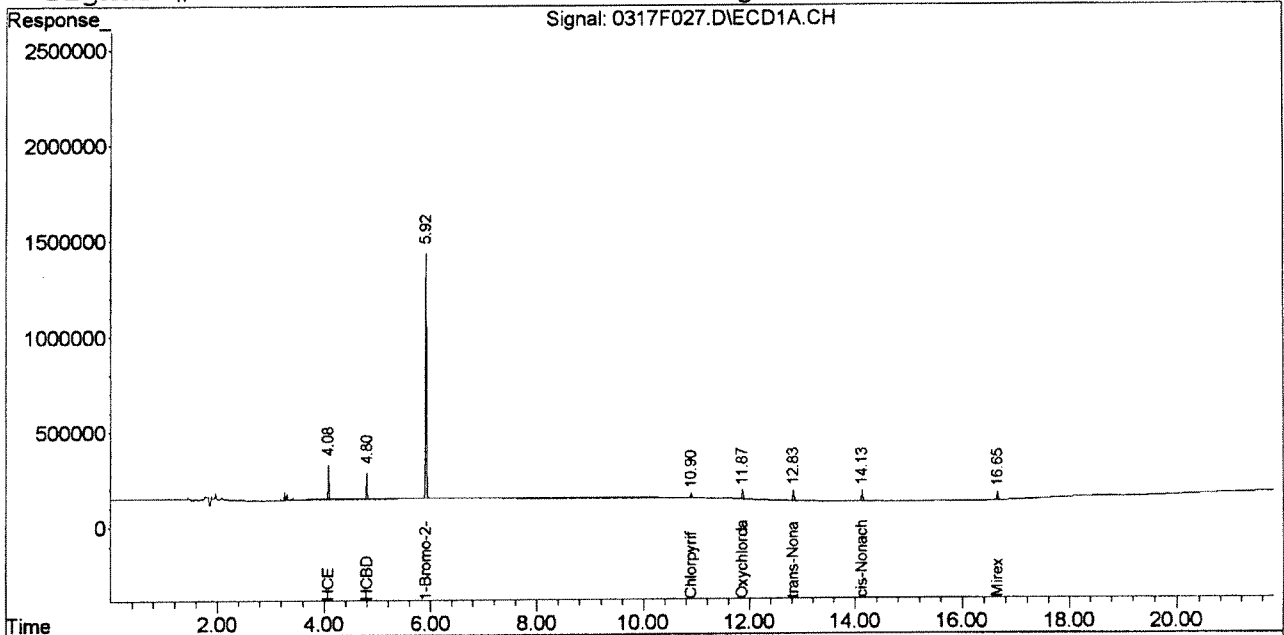
Internal Standards						
43) 1-Bromo-2-nitrob	5.92	5.39	1641207	610140	100.000	100.000
System Monitoring Compounds						
Target Compounds						
44) Chlorpyrifos	10.90	9.78	48199	19637	4.099	4.955
45) Oxychlordane	11.87	10.24	96824	37535	5.406m	5.554
46) cis-Nonachlor	14.13	12.46	111240	46538	4.888m	5.486
47) trans-Nonachlor	12.83	10.90	114823	44927	5.328	5.448
48) Mirex	16.65	15.12	85758	38332	4.251	5.357 #
49) HCE	4.08	3.48	187924	69727	4.138	5.377 #
50) HCBD	4.80	4.02	154736	59061	5.431	5.848

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD1A.CH Vial: 95
Signal #2 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD2B.CH
Acq On : 18 Mar 2014 1:37 am Operator: SMURRAY
Sample : MISC @ 5ppb GCPS7-80D Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 17:11 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:15:22 2014
Response via : Multiple Level Calibration
DataAcq Meth : PESTNEW.M

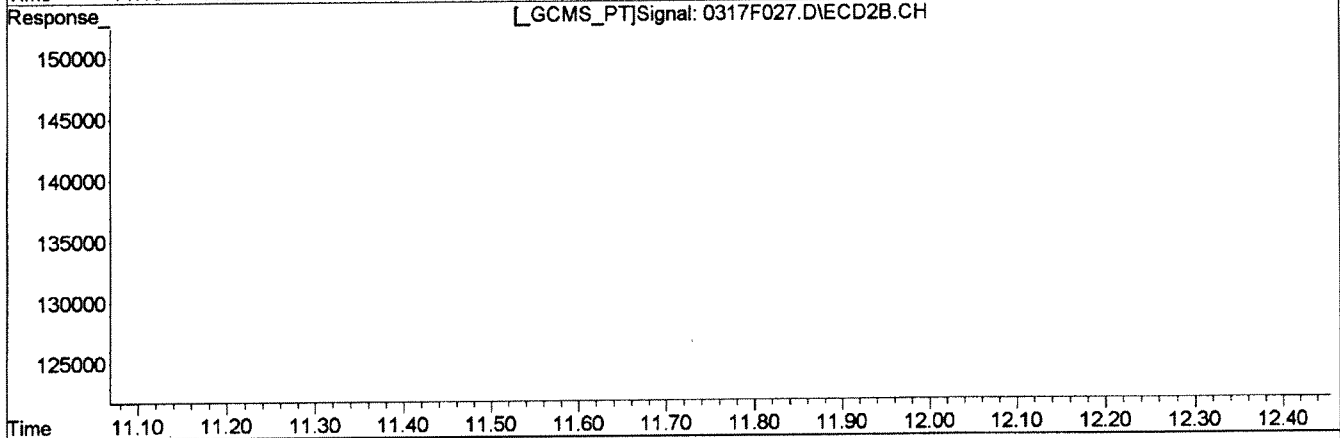
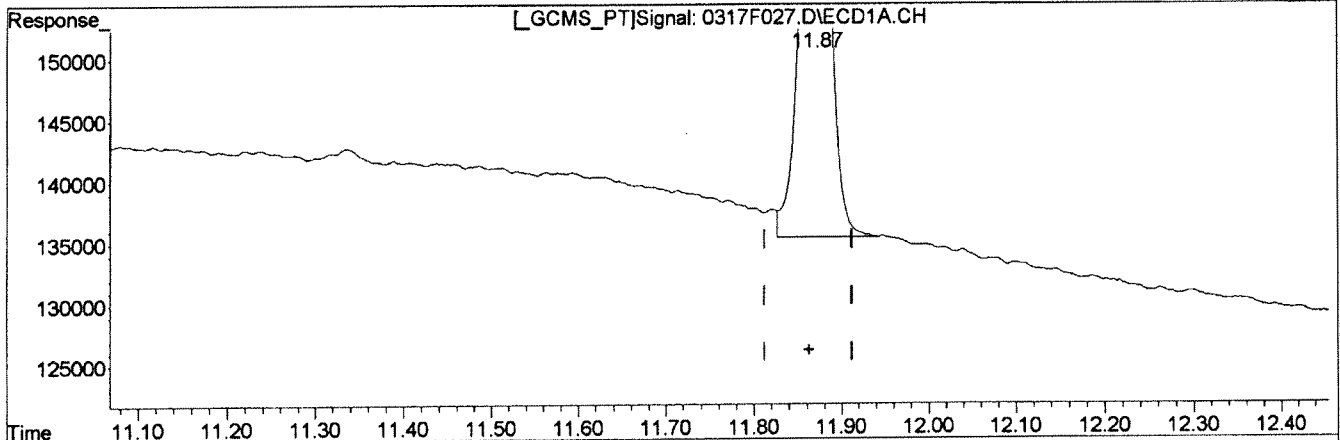
Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD1A.CH Vial: 95
Signal #2 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD2B.CH
Acq On : 18 Mar 2014 1:37 am Operator: SMURRAY
Sample : MISC @ 5ppb GCPS7-80D Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:15 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 17:11:12 2014
Response via : Multiple Level Calibration



Signal: 0317F027.D\ECD1A.CH	
(45) Oxychlordane	Manual Integration:
11.87min 5.700ug/L	Before
response 102018	03/18/14
(45) Oxychlordane #2	
10.24min 5.554ug/L	
response 37535	

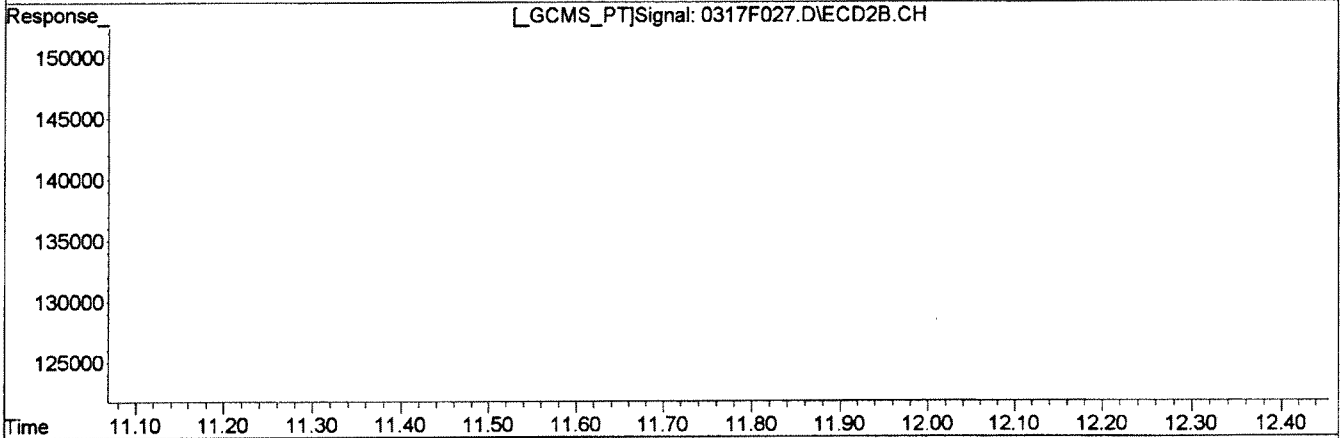
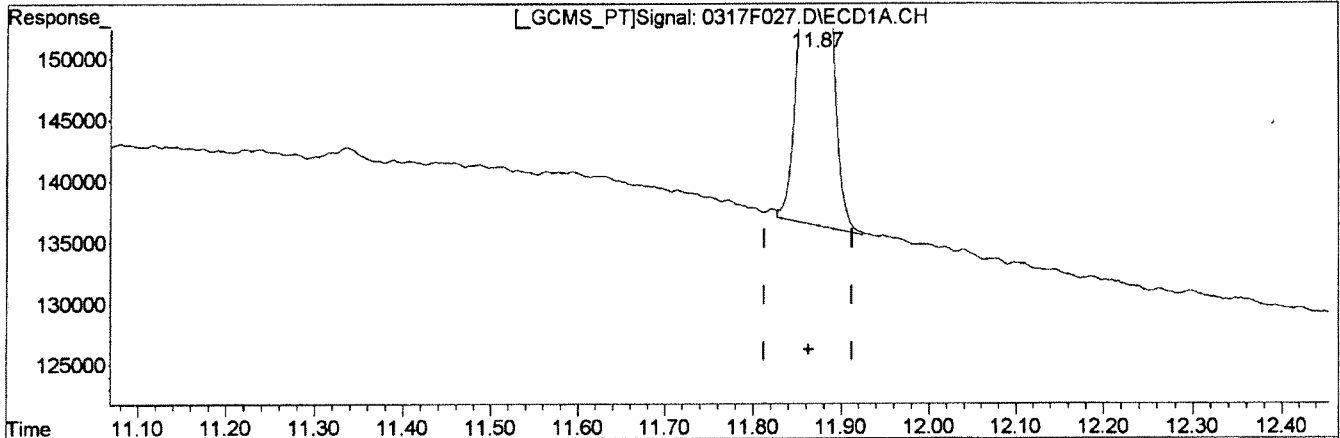
(+) = Expected Retention Time
0317F027.D GC23-031714-8081.M

Tue Mar 18 17:11:34 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD1A.CH Vial: 95
Signal #2 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD2B.CH
Acq On : 18 Mar 2014 1:37 am Operator: SMURRAY
Sample : MISC @ 5ppb GCPS7-80D Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:15 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 17:11:12 2014
Response via : Multiple Level Calibration



Signal: 0317F027.D\ECD1A.CH	
(45) Oxychlordane	Manual Integration:
11.87min 5.406ug/L m	After
response 96824	Baseline/Shoulder
	03/18/14
(45) Oxychlordane #2	
10.24min 5.554ug/L	
response 37535	

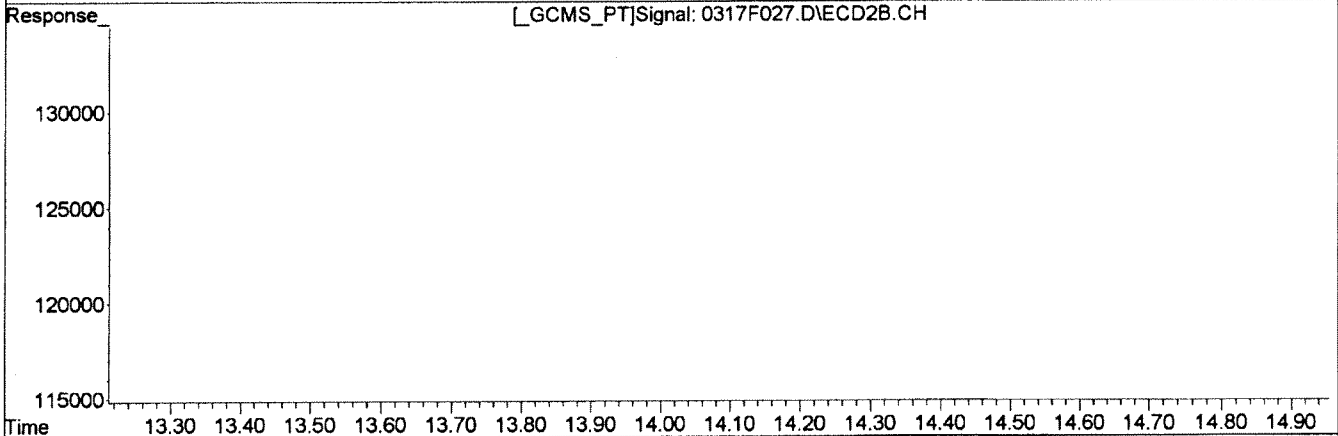
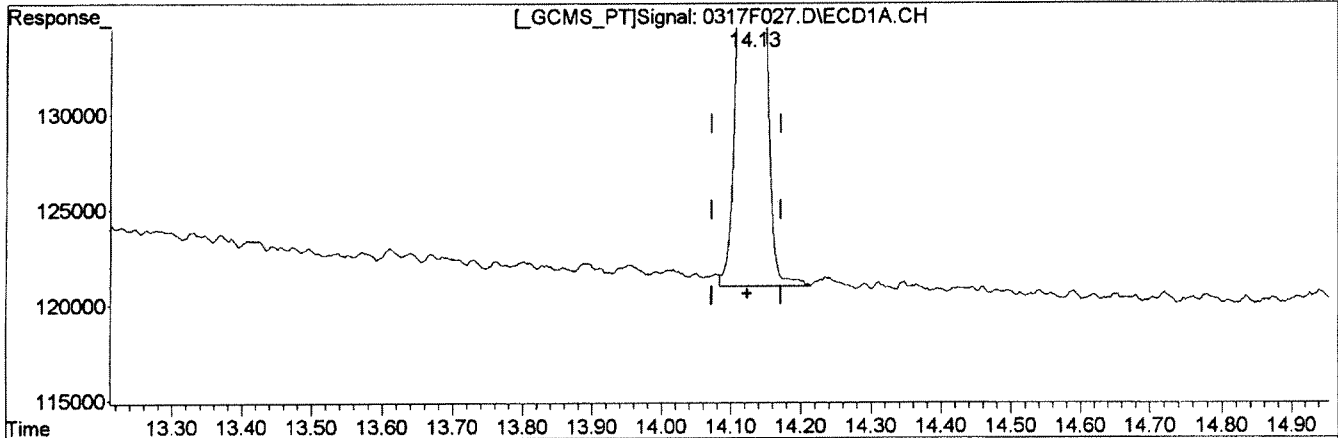
(+) = Expected Retention Time
0317F027.D GC23-031714-8081.M

Tue Mar 18 17:11:37 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD1A.CH Vial: 95
Signal #2 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD2B.CH
Acq On : 18 Mar 2014 1:37 am Operator: SMURRAY
Sample : MISC @ 5ppb GCPS7-80D Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:15 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 17:11:12 2014
Response via : Multiple Level Calibration



Signal: 0317F027.D\ECD1A.CH	
(46) cis-Nonachlor	Manual Integration:
14.13min 5.004ug/L	Before
response 113853	03/18/14
(46) cis-Nonachlor #2	
12.46min 5.486ug/L	
response 46538	

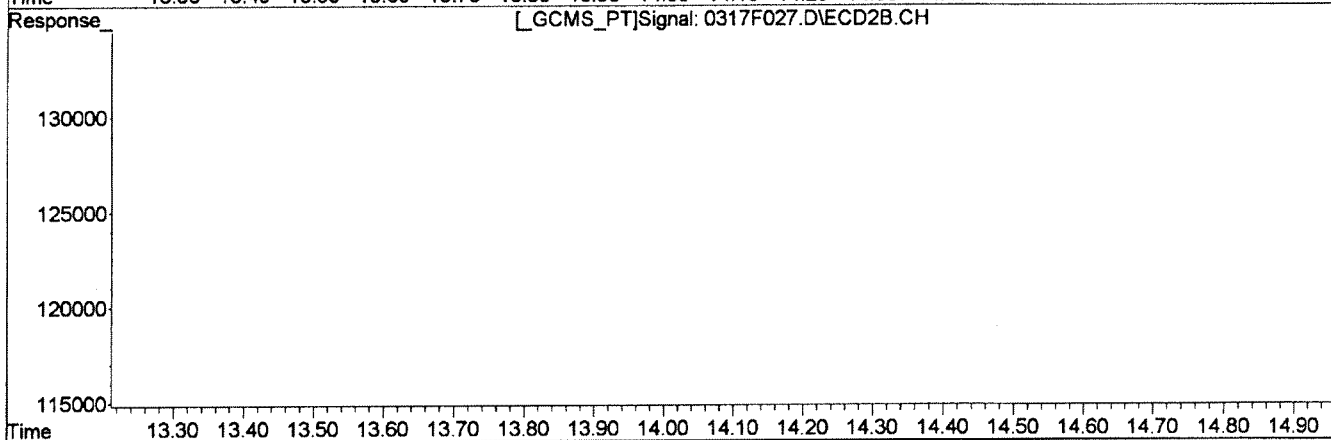
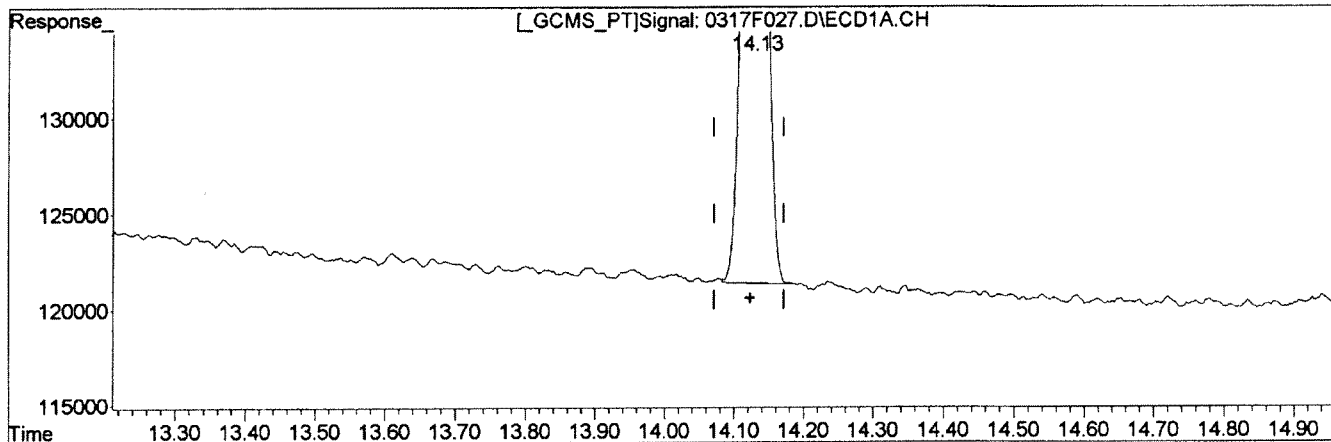
(+) = Expected Retention Time
0317F027.D GC23-031714-8081.M

Tue Mar 18 17:11:44 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD1A.CH Vial: 95
Signal #2 : J:\GC23\DATA\031714ICAL\0317F027.D\ECD2B.CH
Acq On : 18 Mar 2014 1:37 am Operator: SMURRAY
Sample : MISC @ 5ppb GCPS7-80D Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:15 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 17:11:12 2014
Response via : Multiple Level Calibration



Signal: 0317F027.D\ECD1A.CH

(46) cis-Nonachlor	Manual Integration:
14.13min 4.888ug/L m	After
response 111240	Baseline/Shoulder
	03/18/14
(46) cis-Nonachlor #2	
12.46min 5.486ug/L	
response 46538	

(+) = Expected Retention Time
0317F027.D GC23-031714-8081.M

Tue Mar 18 17:11:47 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F028.D\ECD1A.CH Vial: 96
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F028.D\ECD2B.CH
 Acq On : 18 Mar 2014 2:06 am Operator: SMURRAY
 Sample : MISC @ 20ppb GCPS7-80E Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:15:42 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:15:22 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

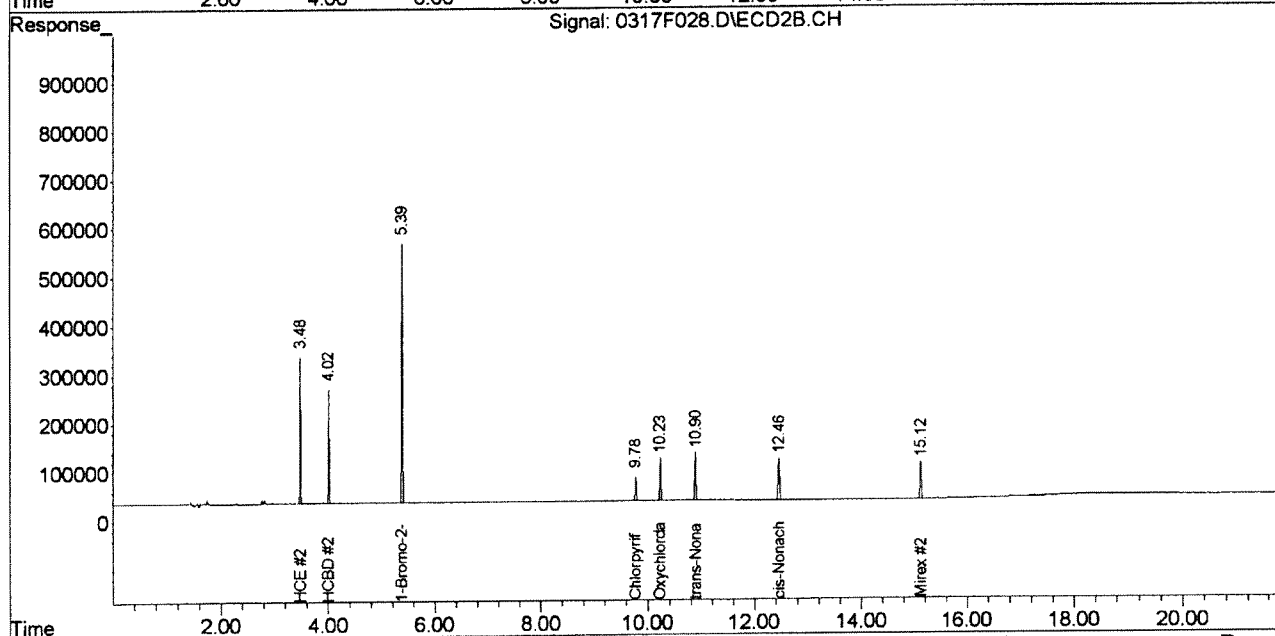
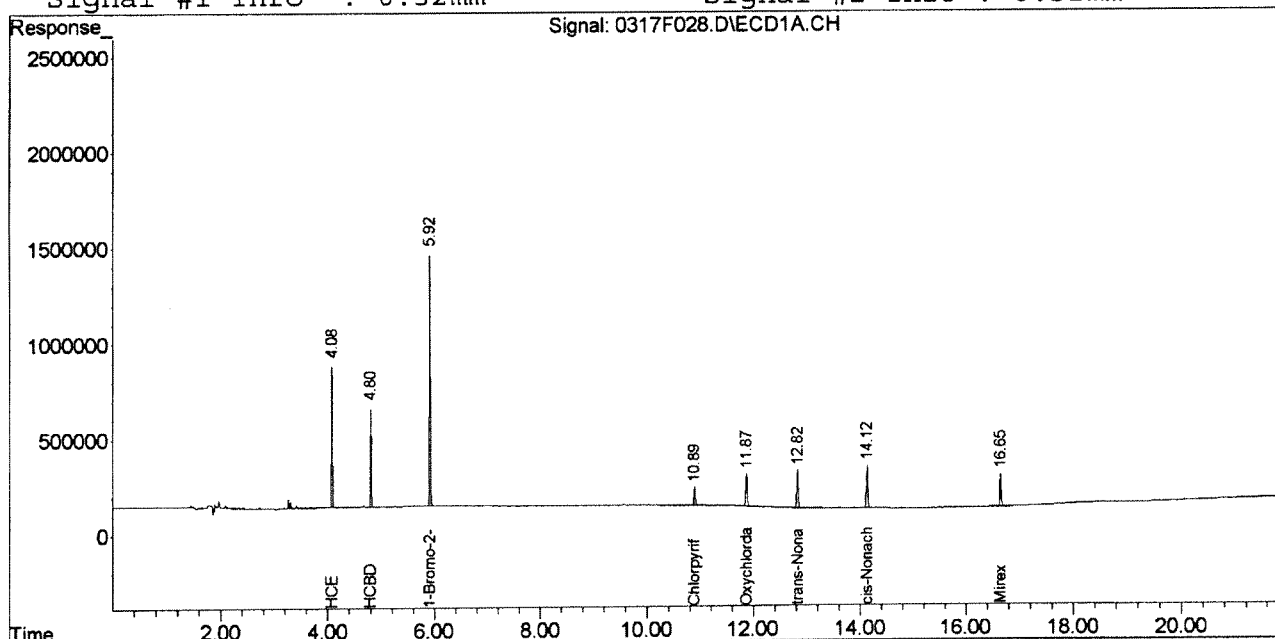
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
43) 1-Bromo-2-nitrob	5.92	5.39	1686731.	620895	100.000	100.000
System Monitoring Compounds						
Target Compounds						
44) Chlorpyrifos	10.89	9.78	181819	70781	15.513	18.190
45) Oxychlorane	11.87	10.23	352144	140231	19.856m	20.389
46) cis-Nonachlor	14.12	12.46	422896	177631	18.696	20.577
47) trans-Nonachlor	12.82	10.90	420496	173277	19.665	20.649
48) Mirex	16.65	15.12	320386	140012	16.069	19.990
49) HCE	4.08	3.48	746078	284177	15.987	21.534 #
50) HCBD	4.80	4.02	576266	228621	19.679	22.245

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F028.D\ECD1A.CH Vial: 96
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F028.D\ECD2B.CH
 Acq On : 18 Mar 2014 2:06 am Operator: SMURRAY
 Sample : MISC @ 20ppb GCPS7-80E Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 17:12 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:15:22 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PESTNEW.M

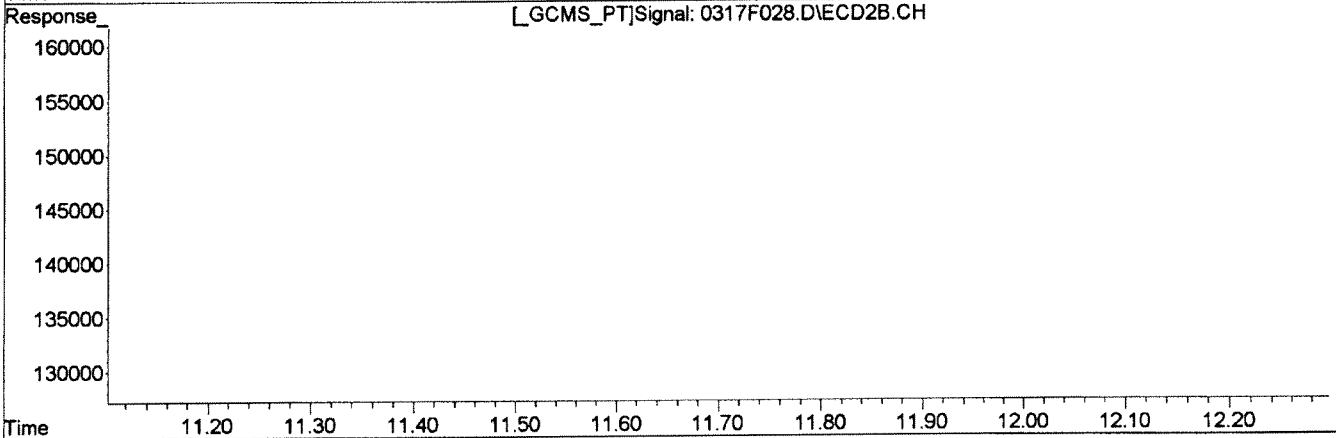
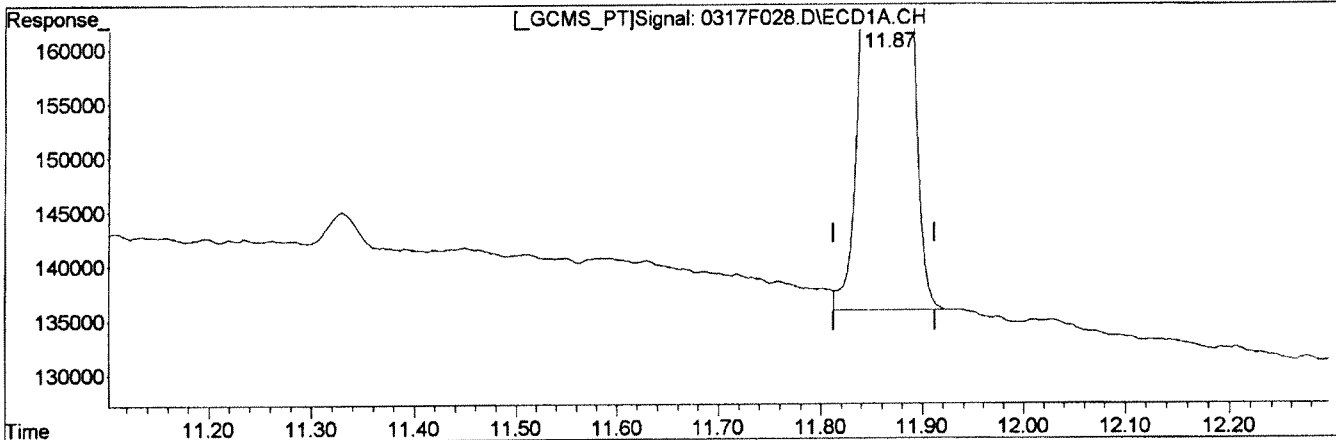
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F028.D\ECD1A.CH Vial: 96
Signal #2 : J:\GC23\DATA\031714ICAL\0317F028.D\ECD2B.CH
Acq On : 18 Mar 2014 2:06 am Operator: SMURRAY
Sample : MISC @ 20ppb GCPS7-80E Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:15 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 17:11:56 2014
Response via : Multiple Level Calibration



Signal: 0317F028.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(45) Oxychlordane	20.161	357268
(45) Oxychlordane #2	20.389	140231

Manual Integration:
Before
03/18/14

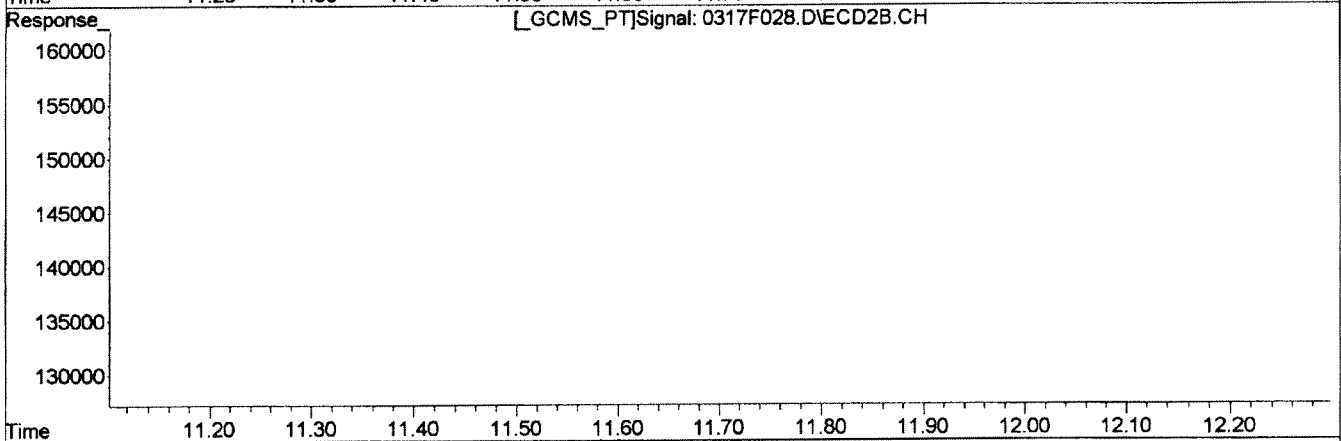
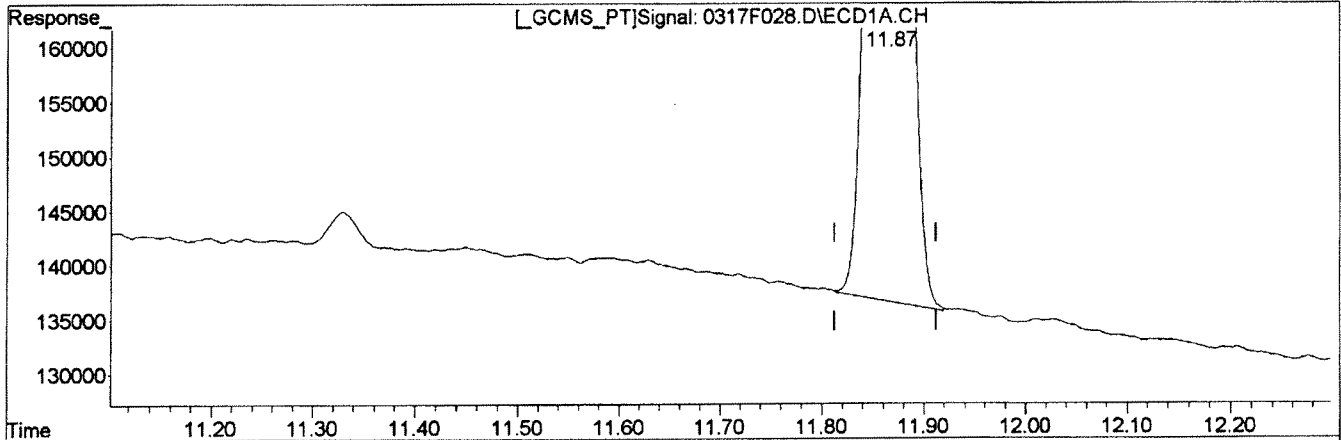
(+) = Expected Retention Time
0317F028.D GC23-031714-8081.M

Tue Mar 18 17:12:19 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F028.D\ECD1A.CH Vial: 96
Signal #2 : J:\GC23\DATA\031714ICAL\0317F028.D\ECD2B.CH
Acq On : 18 Mar 2014 2:06 am Operator: SMURRAY
Sample : MISC @ 20ppb GCPS7-80E Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 16:15 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 17:11:56 2014
Response via : Multiple Level Calibration



Signal: 0317F028.D\ECD1A.CH	
(45) Oxychlordane	Manual Integration:
11.87min 19.856ug/L m	After
response 352144	Baseline/Shoulder
	03/18/14
(45) Oxychlordane #2	
10.23min 20.389ug/L	
response 140231	

(+) = Expected Retention Time
0317F028.D GC23-031714-8081.M

Tue Mar 18 17:12:22 2014

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F029.D\ECD1A.CH Vial: 97
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F029.D\ECD2B.CH
 Acq On : 18 Mar 2014 2:35 am Operator: SMURRAY
 Sample : MISC @ 50ppb GCPS7-80F Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:15:44 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:15:22 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

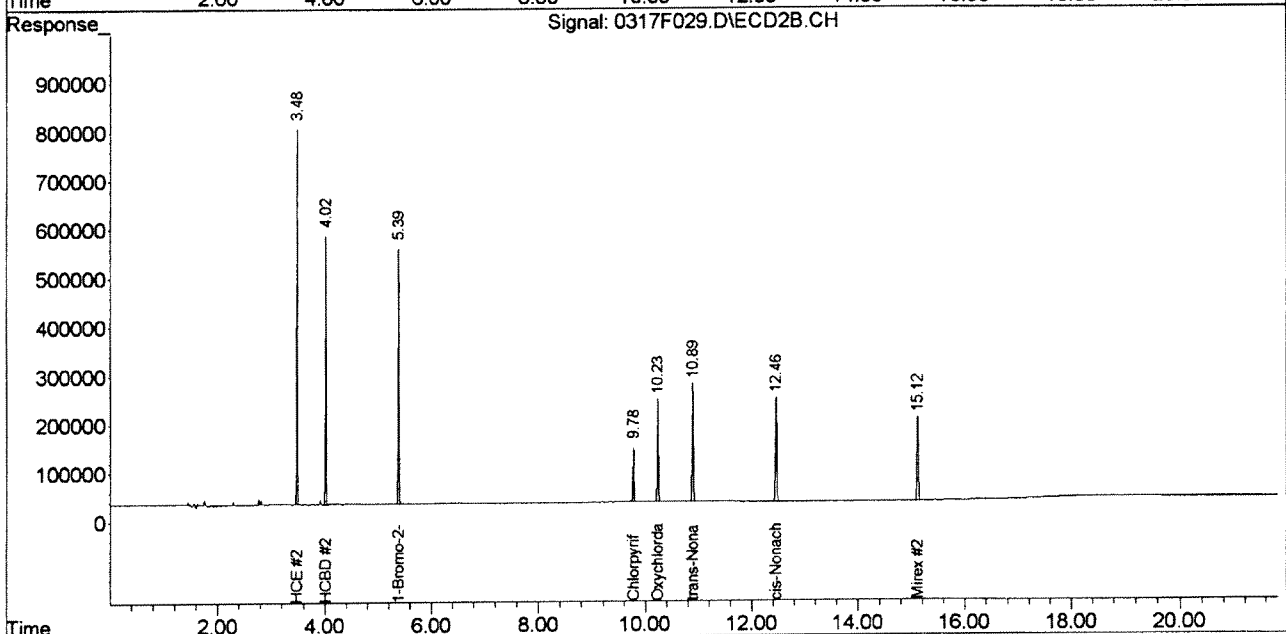
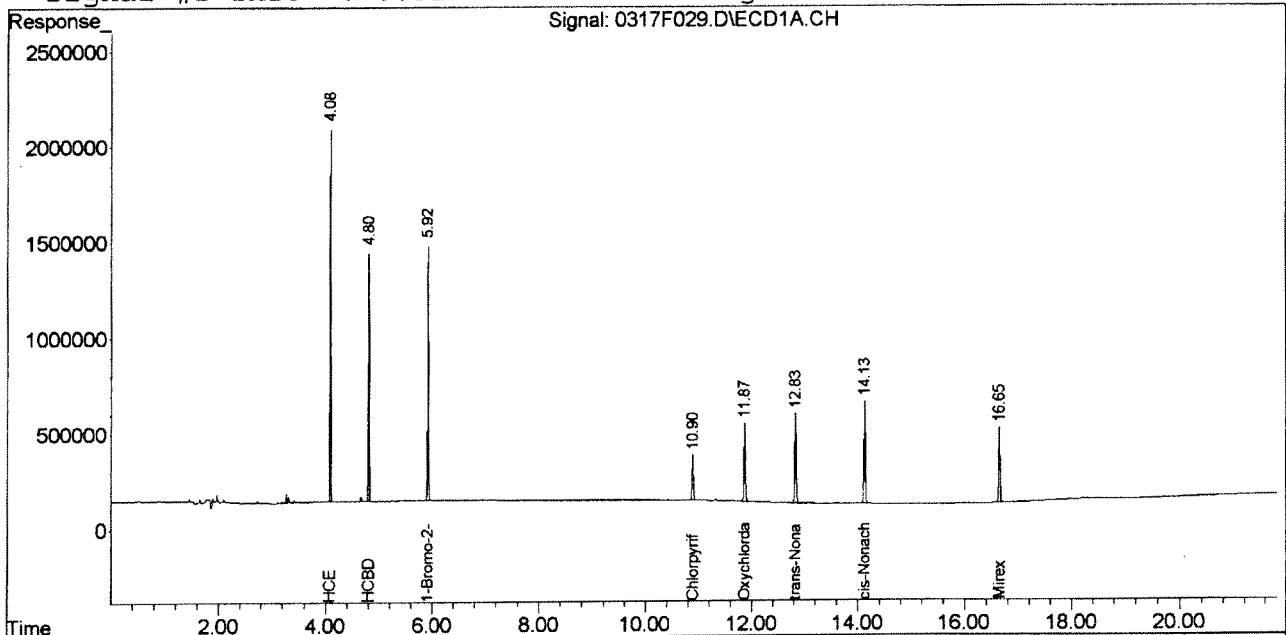
Internal Standards						
43) 1-Bromo-2-nitrob	5.92	5.39	1688440	630441	100.000	100.000
System Monitoring Compounds						
Target Compounds						
44) Chlorpyrifos	10.90	9.78	423969	161610	38.559	44.035
45) Oxychlordane	11.87	10.23	834046	332495	51.185	47.611
46) cis-Nonachlor	14.13	12.46	1011539	426894	48.183	48.703
47) trans-Nonachlor	12.83	10.89	989911	414221	50.030	48.614
48) Mirex	16.65	15.12	739320	318828	40.343	48.594
49) HCE	4.08	3.48	1929609	718478	41.305	53.621 #
50) HCBd	4.80	4.02	1407210	553949	48.008	53.083

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F029.D\ECD1A.CH Vial: 97
Signal #2 : J:\GC23\DATA\031714ICAL\0317F029.D\ECD2B.CH
Acq On : 18 Mar 2014 2:35 am Operator: SMURRAY
Sample : MISC @ 50ppb GCPS7-80F Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 17:12 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 16:15:22 2014
Response via : Multiple Level Calibration
DataAcq Meth : PESTNEW.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F030.D\ECD1A.CH Vial: 98
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F030.D\ECD2B.CH
 Acq On : 18 Mar 2014 3:04 am Operator: SMURRAY
 Sample : MISC @ 75ppb GCPS7-80G Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:15:46 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:15:22 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

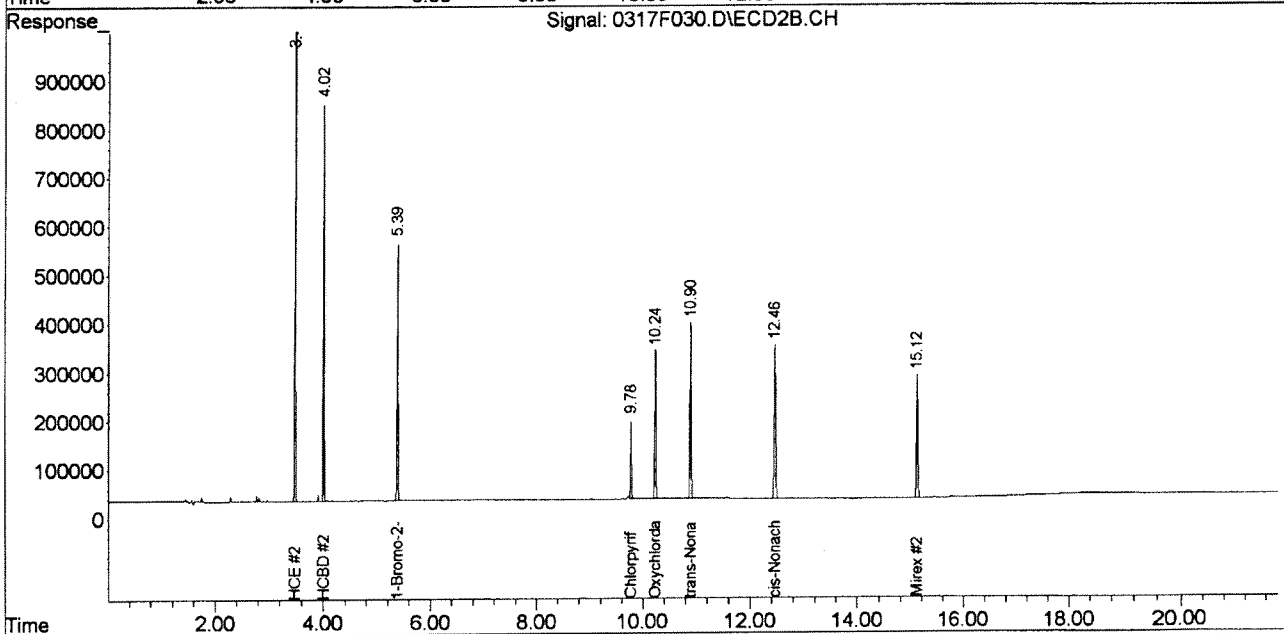
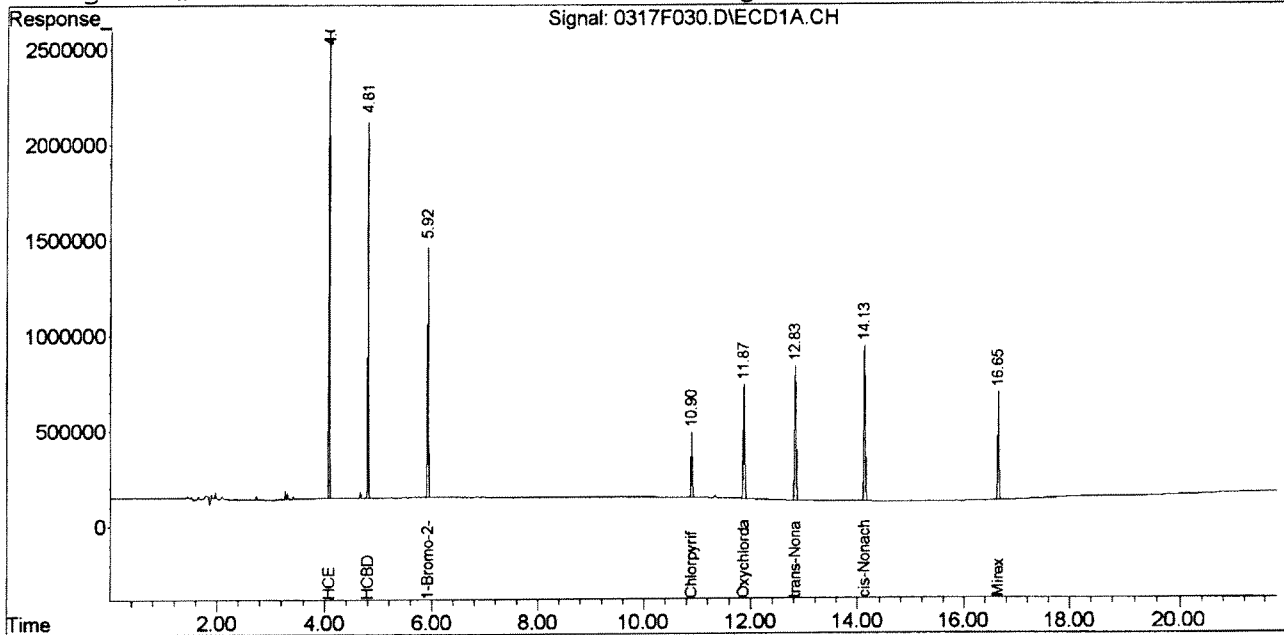
Internal Standards						
43) 1-Bromo-2-nitrob	5.92	5.39	1678555	625235	100.000	100.000
System Monitoring Compounds						
Target Compounds						
44) Chlorpyrifos	10.90	9.78	618607	234261	60.439	69.642
45) Oxychlordane	11.87	10.24	1213756	486485	82.212	70.241
46) cis-Nonachlor	14.13	12.46	1505962	630405	78.491	72.519
47) trans-Nonachlor	12.83	10.90	1457283	609969	80.778	72.183
48) Mirex	16.65	15.12	1073660	457704	64.725	76.654
49) HCE	4.08	3.48	2952761	1076218	63.579	80.988 #
50) HCB	4.81	4.02	2113366	815398	72.523	78.787

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F030.D\ECD1A.CH Vial: 98
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F030.D\ECD2B.CH
 Acq On : 18 Mar 2014 3:04 am Operator: SMURRAY
 Sample : MISC @ 75ppb GCPS7-80G Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 17:13 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:15:22 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F031.D\ECD1A.CH Vial: 99
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F031.D\ECD2B.CH
 Acq On : 18 Mar 2014 3:32 am Operator: SMURRAY
 Sample : MISC @ 100ppb GCPS7-80H Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 16:15:47 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:15:22 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

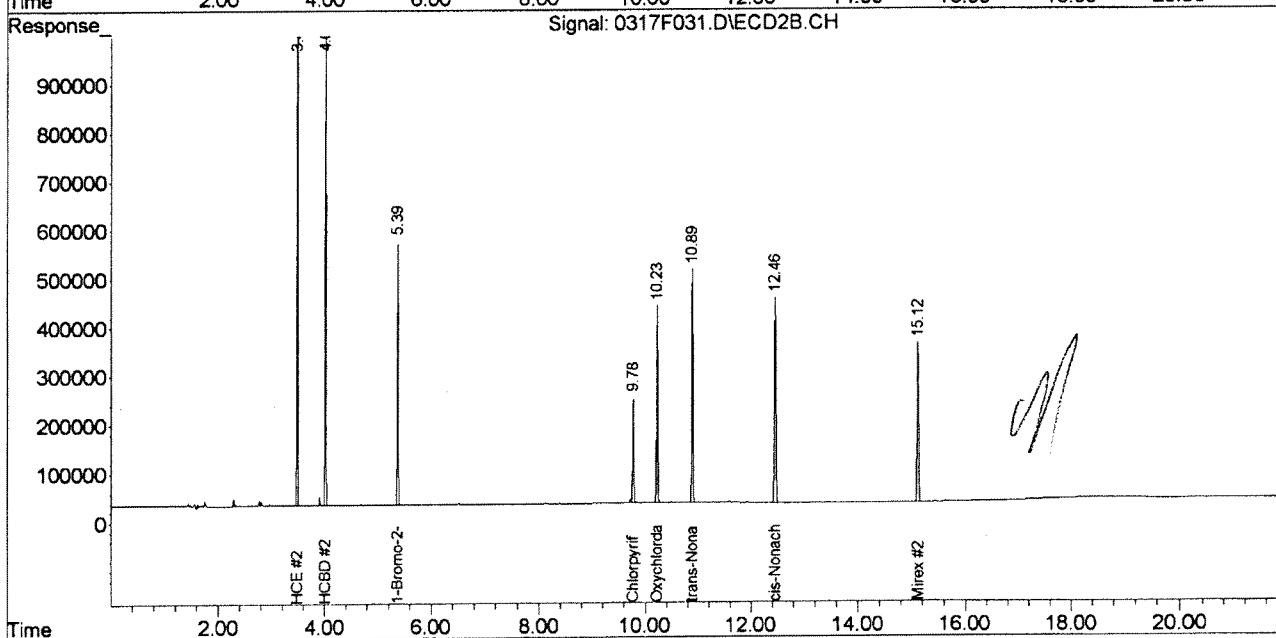
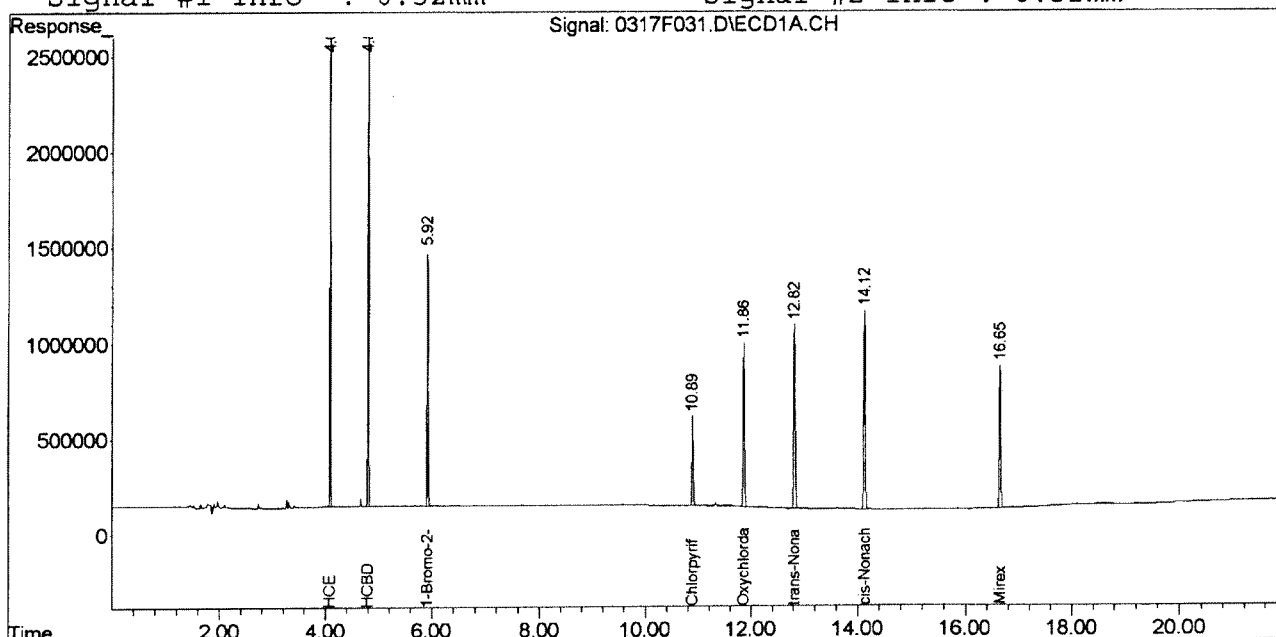
Internal Standards						
43) 1-Bromo-2-nitrob	5.92	5.39	1683568	626859	100.000	100.000
System Monitoring Compounds						
Target Compounds						
44) Chlorpyrifos	10.89	9.78	823475	308397	87.611	102.033
45) Oxychlordane	11.86	10.23	1604044	644803	125.182	92.858 #
46) cis-Nonachlor	14.12	12.46	2031326	840452	119.973	96.432
47) trans-Nonachlor	12.82	10.89	1955552	809400	123.648	95.535
48) Mirex	16.65	15.12	1409906	598485	97.762	113.204
49) HCE	4.08	3.48	4033170	1444172	86.583	108.395 #
50) HCBd	4.80	4.02	2845371	1085795	97.352	104.642

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F031.D\ECD1A.CH Vial: 99
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F031.D\ECD2B.CH
 Acq On : 18 Mar 2014 3:32 am Operator: SMURRAY
 Sample : MISC @ 100ppb GCPS7-80H Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 17:13 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 16:15:22 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F032.D\ECD1A.CH Vial: 100
 Signal #2 : J:\GC23\DATA\031714ICAL\0317F032.D\ECD2B.CH
 Acq On : 18 Mar 2014 4:01 am Operator: SMURRAY
 Sample : MISC @ 40ppb GCPS7-80I @25X Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Mar 18 17:16:18 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 12895
 Last Update : Tue Mar 18 17:15:57 2014
 Response via : Initial Calibration
 DataAcq Meth : PESTNEW.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

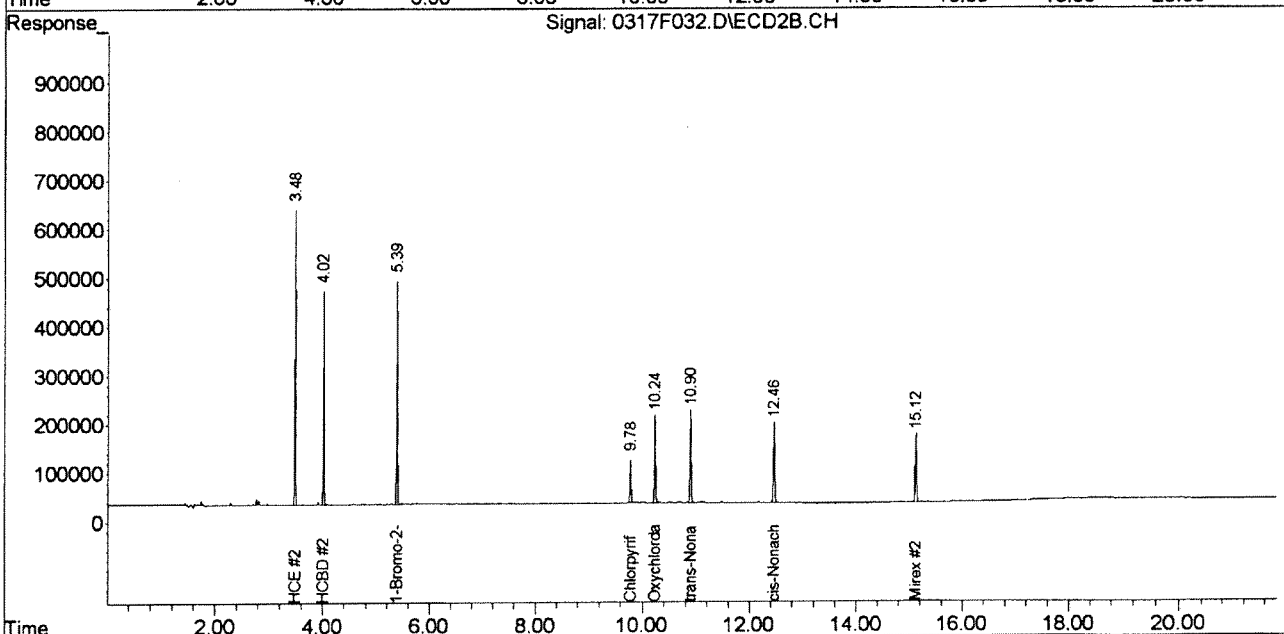
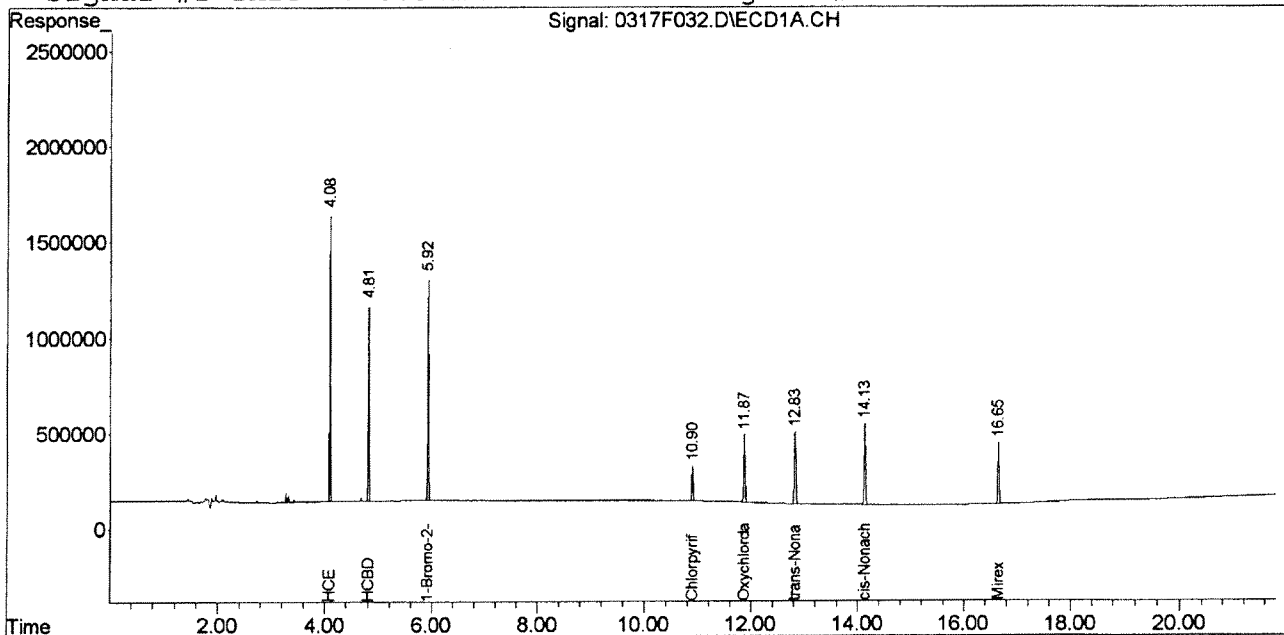
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
43) 1-Bromo-2-nitrob	5.92	5.39	1478261	550640	100.000	100.000
System Monitoring Compounds						
Target Compounds						
44) Chlorpyrifos	10.90	9.78	339361	127294	42.562	43.860
45) Oxychlorane	11.87	10.24	721290	287983	45.680	45.738
46) cis-Nonachlor	14.13	12.46	802361	336027	42.365	42.381
47) trans-Nonachlor	12.83	10.90	780393	324621	41.323	42.071
48) Mirex	16.65	15.12	596911	256860	42.233	45.626
49) HCE	4.08	3.48	1499678	563707	42.949	44.164
50) HCB	4.81	4.02	1104902	432938	41.365	42.327

Quantitation Report (QT Reviewed)

Signal #1 : J:\GC23\DATA\031714ICAL\0317F032.D\ECD1A.CH Vial: 100
Signal #2 : J:\GC23\DATA\031714ICAL\0317F032.D\ECD2B.CH
Acq On : 18 Mar 2014 4:01 am Operator: SMURRAY
Sample : MISC @ 40ppb GCPS7-80I @25X Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Mar 18 17:16 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 12895
Last Update : Tue Mar 18 17:15:57 2014
Response via : Multiple Level Calibration
DataAcq Meth : PESTNEW.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Preparation Information

Group ID:	KWG1405574	Prep Method:	EPA 3535A
Department:	Semivoa GC	Prep Date:	06/11/14 10:40

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1405818-001	SYC14-SW	8081B Pest OC	WATER	1000mL	2mL	
KWG1405574-1	Lab Control Sample	8081B Pest OC	WATER	1000mL	2mL	
KWG1405574-2	Duplicate Lab Control Sample	8081B Pest OC	WATER	1000mL	2mL	
KWG1405574-3	Lab Control Sample	8081B Pest OC	WATER	1000mL	2mL	
KWG1405574-4	Duplicate Lab Control Sample	8081B Pest OC	WATER	1000mL	2mL	
KWG1405574-5	Lab Control Sample	8081B Pest OC	WATER	1000mL	2mL	
KWG1405574-6	Duplicate Lab Control Sample	8081B Pest OC	WATER	1000mL	2mL	
KWG1405574-7	Method Blank	8081B Pest OC	WATER	1000mL	2mL	

Lab Code	Parent Lab Code	Comments
KWG1405574-1		KQ1406411-01
KWG1405574-2		KQ1406411-02
KWG1405574-3		KQ1406411-03
KWG1405574-4		KQ1406411-04
KWG1405574-5		KQ1406411-05
KWG1405574-6		KQ1406411-06
KWG1405574-7		KQ1406411-07

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1405818-001	1347305					NCisney
KWG1405574-1	1347306					NCisney
KWG1405574-2	1347307					NCisney
KWG1405574-3	1347308					NCisney
KWG1405574-4	1347309					NCisney
KWG1405574-5	1347310					NCisney
KWG1405574-6	1347311					NCisney
KWG1405574-7	1347312					NCisney

Comments: 6/27

Started By: KClark Assisted By: _____ Training Yes No

Completed By: KClark Assisted By: _____ Yes No

Reviewed By: EB Date: 6/11/14 ¹² _{12/14} ^{WD} _{EB} Storage: _____

Chain of Custody

Relinquished By: <u>KL</u>	Date: <u>6/11/14</u>	Extracts Examined
Received By: <u>[Signature]</u>	Date: <u>6/11/14</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>

Preparation Information Benchsheet

Prep Run: 210548 **Prep Workflow:** OrgExtSPEaq (7) **Status:** Draft **Prep Date:** 06/11/2014 08:36
Team: Semivoa GC **Prep Method:** EPA 3535A **Current Step:** Extraction **Due Date:** 06/18/2014
Analyst: KCLARK **Rush/NPDES:** N/A **Hold Date:** 06/11/2014

Lab Code	Client ID	Bottle #	✓	Initial Amount ML	pH Initial	pH Adj 1	Inter. Volume	Final Volume ML	Surr Amt ML	Spike Amt ML	TestNo List
K1405818-001	SYC14-SW	① 10 .17	✓	1000	NA	2.5	NA	2	100	—	Pest OC
KQ1406411-01	Lab Control Sample 8DB1MISC			1000		2.5		2		50 50	Pest OC
KQ1406411-02	Duplicate Lab Control Sample			1000		2.5		2			Pest OC
KQ1406411-03	Lab Control Sample 2,4 DD			1000		2.5		2		50	Pest OC
KQ1406411-04	Duplicate Lab Control Sample			1000		2.5		2			Pest OC
KQ1406411-05	Lab Control Sample Tox1CNOV			1000		2.5		2		100 100	Pest OC
KQ1406411-06	Duplicate Lab Control Sample			1000		2.5		2			Pest OC
KQ1406411-07	Method Blank			1000		2.5		2		—	Pest OC

8 Total Samples consisting of 1 Client Sample, 0 Client QC Samples, 7 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Witness:  6/11/14

~~① SURV PCB6-41A Exp. 11/2/114 2ppm 100ml (Epp 2A)~~ ~~② 2,4 GCPST-77A Exp. 9/5/114 4ppm 50ml (Epp 2D)~~
~~③ GCPST-82E Exp. 6/22/114 4ppm 50ml (Epp 2D)~~ ~~④ GCPST-73F Exp. 8/5/114 4ppm 50ml (Epp 2D)~~
~~⑤ GCPST-82B Exp. 11/9/114 10ppm 100ml (Epp 2A)~~ ~~⑥ GCPST-79D Exp. 9/17/114 10ppm 100ml (Epp 2A)~~

Step	Started	Finished	By	Assisted By	Training?	Comments
Extraction	6/11/14	6/11/14	KLARK			
Final Volume	6/11/14	6/11/14	KLARK			

Comments

Insufficient sample volume for MS/DMS.

① EE KC 6/11/14

ALS Environmental
Appendix from EXT-3535
For Extracting 8081/8082/8082-Con Compounds in water by
EPA Method 3535A

1. Mark the level of the sample on the sample container for determination of sample volume.
2. Add appropriate surrogate (if extracting congeners, use separate congener surrogate) to all samples and appropriate spike(s) to QC samples.
3. Shake sample to ensure that particulate matter is evenly distributed. Adjust pH of the sample to 2.5 using Sulfuric Acid. Be careful not to go below 2, as this will cause breakdown of the extraction disk.
4. Prepare sample bottles with Horizon cap adapters and verify seal.
5. Run purge method 8081.4 on extractors 2 times.
6. Assemble extractors using Atlantic C18 disks.
7. Load extraction program 8100 on the Horizon control box.
8. Load samples onto Horizon extractors and slowly turn clockwise until sample seal is broken. (Glug effect)
9. Start extraction program.
10. Run purge method 8081.8 on extractors between samples.
11. Prepare a Horizon dry disk manifold by rinsing and inserting a dry disk membrane.
12. Pour the entire contents of the collected extract onto the top of the disk and apply vacuum.
13. Rinse the empty VOA vial 3 times with Hexane, adding each rinse to the dry disk.
14. Rinse the dry disk apparatus and allow all the solvent to pass through. Do not let the remaining water sit on the filter with the vacuum on, as the disk will become permeable after a few minutes.
15. Place sample into the turbovap and concentrate to approximately 1mL.
16. Bring to a 2mL final volume in Hexane. Split extract (if necessary) by removing a 1mL portion (pesticide aliquot) and placing it into a labeled yellow autosampler vial and mark the meniscus. Take remaining 1mL portion (PCB/Con aliquot) and perform an acid clean-up. Remove hexane portion and place into a labeled green autosampler vial and mark the meniscus. For congeners, after acid clean up, place exactly 500 μ L into green auto sampler vial.

Preparation Information

Group ID: KWG1406763	Prep Method: EPA 3535A	Prep Date: 06/16/14 11:30
Department: Semivoa GC		

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1405818-002	SYC14-AC Elutriate	8081B Pest OC	WATER	970mL	2mL	
K1405818-003	SYC14-TB1 Elutriate	8081B Pest OC	WATER	970mL	2mL	
K1405818-004	SYC14-TB2 Elutriate	8081B Pest OC	WATER	980mL	2mL	
K1405920-002	Influent 24hr comp	8081B Pest OC	WATER	1000mL	2mL	
K1405920-005	Effluent 24hr comp	8081B Pest OC	WATER	940mL	2mL	
K1405986-001	#2 Far East	8081B Pest OC	WATER	1000mL	2mL	
K1405986-002	#3 East	8081B Pest OC	WATER	1000mL	2mL	
K1405986-003	#4 Center	8081B Pest OC	WATER	980mL	2mL	
K1405986-004	#5 West	8081B Pest OC	WATER	990mL	2mL	
KWG1406763-1	Matrix Spike	8081B Pest OC	WATER	990mL	2mL	
KWG1406763-10	Method Blank	8081B Pest OC	WATER	1000mL	2mL	
KWG1406763-2	Duplicate Matrix Spike	8081B Pest OC	WATER	990mL	2mL	
KWG1406763-3	Lab Control Sample	8081B Pest OC	WATER	1000mL	2mL	
KWG1406763-4	Matrix Spike	8081B Pest OC	WATER	990mL	2mL	
KWG1406763-5	Duplicate Matrix Spike	8081B Pest OC	WATER	980mL	2mL	
KWG1406763-6	Lab Control Sample	8081B Pest OC	WATER	1000mL	2mL	
KWG1406763-7	Matrix Spike	8081B Pest OC	WATER	1000mL	2mL	
KWG1406763-8	Duplicate Matrix Spike	8081B Pest OC	WATER	990mL	2mL	
KWG1406763-9	Lab Control Sample	8081B Pest OC	WATER	1000mL	2mL	

Lab Code	Parent Lab Code	Comments
KWG1406763-1	K1405818-002	KQ1406614-01
KWG1406763-10		KQ1406614-12
KWG1406763-2	K1405818-002	KQ1406614-02
KWG1406763-3		KQ1406614-03
KWG1406763-4	K1405818-002	KQ1406614-04
KWG1406763-5	K1405818-002	KQ1406614-05
KWG1406763-6		KQ1406614-06
KWG1406763-7	K1405818-002	KQ1406614-07
KWG1406763-8	K1405818-002	KQ1406614-08
KWG1406763-9		KQ1406614-09

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1405818-002	1350994					HSteele
K1405818-003	1350995					HSteele
K1405818-004	1350996					HSteele

Comments: _____

Started By: KClark Assisted By: _____ Training
Yes No

Completed By: KMiller Assisted By: _____ Yes No

Reviewed By: Date: 6/26/14 Storage: _____

Chain of Custody

Relinquished By: <u></u>	Date: <u>6-25-14</u>	Extracts Examined Yes <input type="checkbox"/> No <input type="checkbox"/>
Received By: <u></u>	Date: <u>6/25/14</u>	


Group ID: KWG1406763 **Prep Method:** EPA 3535A **Prep Date:** 06/16/14 11:30
Department: Semivoa GC

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1405920-002	1350997					HSteele
K1405920-005	1350998					HSteele
K1405986-001	1350999					HSteele
K1405986-002	1351000					HSteele
K1405986-003	1351001					HSteele
K1405986-004	1351002					HSteele
KWG1406763-1	1351003					HSteele
KWG1406763-10	1351012					HSteele
KWG1406763-2	1351004					HSteele
KWG1406763-3	1351005					HSteele
KWG1406763-4	1351006					HSteele
KWG1406763-5	1351007					HSteele
KWG1406763-6	1351008					HSteele
KWG1406763-7	1351009					HSteele
KWG1406763-8	1351010					HSteele
KWG1406763-9	1351011					HSteele

Comments: _____

Started By: KClark **Assisted By:** _____ **Training:** Yes No
Completed By: KMiller **Assisted By:** _____ Yes No
Reviewed By: _____ **Date:** _____ **Storage:** _____

Chain of Custody

Relinquished By: <u></u>	Date: <u>06-25-14</u>	Extracts Examined
Received By: _____	Date: _____	Yes <input type="checkbox"/> No <input type="checkbox"/>

Preparation Information Benchsheet

Prep Run: 210884 **Prep Workflow:** OrgExtSPEaq **Status:** Draft **Prep Date:** 06/16/2014
Team: Semivoa **Prep Method:** EPA 3535A **Current Step:** Extraction **Prep Date:** 08:57
Analyst: KCLARK **Rush/NPDES:** N/A **Due Date:** 06/18/2014
Hold Date: 06/17/2014

Lab Code	Client ID	Bottle #	✓	Initial Amount ML	pH Initial	pH Adj 1	Inter. Volume	Final Volume ML	Surr Amt ML	Spike Amt ML	TestNo List
K1405818-002	SYC14-AC Elutriate	0.02 .06	✓	970	NA	2.5	NA	2	100	—	Pest OC
K1405818-003	SYC14-TB1 Elutriate	0.02 .04	✓	970		2.5		2		—	Pest OC
K1405818-004	SYC14-TB2 Elutriate	0.02 .04	✓	980		2.5		2		—	Pest OC
K1405920-002	Influent 24hr comp	.13	✓	1000		2.5		2		—	PCB, Pest OC
K1405920-005	Effluent 24hr comp	0.23 .15	✓	940		2.5		2		—	PCB, Pest OC
K1405986-001	#2 Far East	.03	✓	1000		2.5		2		—	PCB, Pest OC
K1405986-002	#3 East	0.03 .04	✓	1000		2.5		2		—	PCB, Pest OC
K1405986-003	#4 Center	0.03 .04	✓	980		2.5		2		—	PCB, Pest OC
K1405986-004	#5 West	0.03 .04	✓	990		2.5		2		—	PCB, Pest OC
K1405818-002: KQ1406614-01	Matrix Spike <u>SOB/MISC</u>	0.02 .08	✓	990		2.5		2		50 50	Pest OC
K1405818-002: KQ1406614-02	Duplicate Matrix Spike	0.02 .09	✓	990		2.5		2			Pest OC
KQ1406614-03	Lab Control Sample			1000		2.5		2			Pest OC
K1405818-002: KQ1406614-04	Matrix Spike <u>2,4 DD</u>	0.02 .07	✓	990		2.5		2		50	Pest OC
K1405818-002: KQ1406614-05	Duplicate Matrix Spike	0.02 .11	✓	980		2.5		2			Pest OC
KQ1406614-06	Lab Control Sample			1000		2.5		2			Pest OC
K1405818-002: KQ1406614-07	Matrix Spike <u>Tox/CHLOR</u>	0.02 .12	✓	1000		2.5		2		100 100	Pest OC
K1405818-002: KQ1406614-08	Duplicate Matrix Spike	0.02 .15	✓	990		2.5		2			Pest OC
KQ1406614-09	Lab Control Sample			1000		2.5		2			Pest OC
KQ1406614-10	Lab Control Sample <u>1660</u>			1000		2.5		2		50	PCB
KQ1406614-11	Duplicate Lab Control Sample			1000		2.5		2			PCB
KQ1406614-12	Method Blank			1000		2.5		2		—	PCB, Pest OC

21 Total Samples consisting of 9 Client Samples, 6 Client QC Samples, 6 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Witness: H. Stata 6-16-14

~~(S)~~ PCB6-41A Exp. 11/21/14 2ppm 100ul (Epp2A) (24) GCP57-77A Exp. 9/15/14 4ppm 50ul (Epp 2D)

(S) GCP57-82E Exp. 6/22/14 4ppm 50ul (Epp2D) (M) GCP57-73F Exp. 9/15/14 4ppm 50ul (Epp 2D)

(T) GCP57-82B Exp. 11/9/14 10ppm 100ul (Epp2A) (C) GCP57-79D Exp. 9/17/14 10ppm 100ul (Epp 2A)

(W) PCB6-40C Exp. 11/21/14 40ppm 50ul (Epp2D)

Preparation Steps

<u>Step</u>	<u>Started</u>	<u>Finished</u>	<u>By</u>	<u>Assisted By</u>	<u>Training?</u>	<u>Comments</u>
Extraction	6/16/14	6/16/14	Klavk			
Final Volume						

Comments

DEE KL 6/16/14
Insufficient sample volume for MS/DMS for PCB Q.C. (1660 Matrix Spike).

Additional Prep Information For Pest/PCB/Con Water by 3535

Service Request # K1405818, 5920, 5986 Work Group # 210884

Solvents/Reagents used:

Sulfuric Acid Lot#: 53002 DCM Lot#: DK494

Acetone Lot #: D1478 Hexane Lot #: 67123

Atlantic C18 Disk Lot #: 3180113

Extraction Program # 8100 Initial Purge Prog # 8081.4
Between Sample Purge Program# 8081.8

Start (Time/Date/Initial): 1130 6/16/14 KC

Stop (Time/Date/Initial): 1610 6/16/14 KC

Final Volume/Cleanups:

Dry Disk (Time/Date/Initial): 1100 6/17/14 KC Lot #: BD2400558939

Turbo Vap (Time/Date/Initials): 1125 6/17/14 KC Therm ID: K-TURBOVAP-04

Temp as measured: 27.0 °C Correction factor: -1.0 °C Adjusted temp: 26.0 °C

WT 6-25-14

Sulfuric Acid Clean-up (Time/Date/Initials): ~~12:30~~ ^K 1:30 6-25-14 K Acid Lot #: 53002

Pest Vial: Yellow Vial Storage: Sleepy D1-E9

PCB/Con Vial: Green Vial Storage: Mickey A1-9

Comments/Observations: Pest Samples received a Carbon CU - 6-25-14 K Lot 31154
Pest Archived in: Seattle Seahawks 4:1 Ext-002-29

Bench Sheet Review Check List

- Hold Times Met (if no, Reason: _____)
- Prep date, dept, method, product code correct in stealth
- Spike Information correct
- Weights/Volumes and units correct on raw and final bench sheets
- Sample IDs have been checked—Bottle numbers appended if required
- Names present for: Started by, Completed by, relinquished by, and witnessed by.
- Training has been circled
- Extract Storage recorded
- Additional Prep Sheet completely filled out (NA or line out Blanks)
- All clean-ups have been noted on additional prep sheet
- Signed service request with Form V, if applicable, has been attached

Sequence Name: U:\GC23\SEQUENCE\062514.S

Comment:

Operator: SMURRAY

Data Path: C:\GC23\DATA\062514\

Pre-Seq Cmd:

Post-Seq Cmd:

*CA: 13213
RW: 895*

Method Sections To Run	On A Barcode Mismatch
(X) Full Method	(X) Inject Anyway
() Reprocessing Only	() Don't Inject

Line Type	Vial	DataFile	Method	Sample Name	
1	PEM	1	0625F001	PEST1UL	PEM @50-100PPB GCPS7-81G
2	PEM	100	0625F007	PEST1UL	DCM LOT DK722
3	CCV	2	0625F002	PEST1UL	81/24 @ 50ppb GCPS7-73G
4	CCV	3	0625F003	PEST1UL	TOX @ 1000ppb GCPS7-77M
5	CCV	4	0625F004	PEST1UL	CHLOR @ 500ppb GCPS7-80B
6	CCV	5	0625F005	PEST1UL	MISC @ 50ppb GCPS7-80F
7	IB	6	0625F006	PEST1UL	IB
8	SMPL	95	0625FX08	PEST1UL	K1406163-002@5X
9	SMPL	7	0625F008	PEST1UL	K1405695-007
10	SMPL	8	0625F009	PEST1UL	K1405697-007
11	LCS	9	0625F010	PEST1UL	KWG1406290-LCS1
12	Pause				
13	DLCS	10	0625F011	PEST1UL	KWG1406290-DLCS2
14	LCS	11	0625F012	PEST1UL	KWG1406290-LCS3
15	DLCS	12	0625F013	PEST1UL	KWG1406290-DLCS4
16	MB	13	0625F014	PEST1UL	KWG1406290-MB
17	SMPL	14	0625F015	PEST1UL	K1405818-001
18	LCS	15	0625F016	PEST1UL	KWG1405574-LCS1
19	DLCS	16	0625F017	PEST1UL	KWG1405574-DLCS2
20	LCS	17	0625F018	PEST1UL	KWG1405574-LCS3
21	DLCS	18	0625F019	PEST1UL	KWG1405574-DLCS4
22	LCS	19	0625F020	PEST1UL	KWG1405574-LCS5
23	DLCS	20	0625F021	PEST1UL	KWG1405574-DLCS6
24	MB	21	0625F022	PEST1UL	KWG1405574-MB
25	PEM	1	0625F023	PEST1UL	PEM @50-100PPB GCPS7-81G
26	CCV	2	0625F024	PEST1UL	81/24 @ 50ppb GCPS7-73G
27	CCV	3	0625F025	PEST1UL	TOX @ 1000ppb GCPS7-77M
28	CCV	4	0625F026	PEST1UL	CHLOR @ 500ppb GCPS7-80B
29	CCV	5	0625F027	PEST1UL	MISC @ 50ppb GCPS7-80F
30	IB	6	0625F028	PEST1UL	IB
31	SMPL	22	0625F029	PEST1UL	K1405818-002
32	MS	23	0625F030	PEST1UL	K1405818-002MS 81
33	DMS	24	0625F031	PEST1UL	K1405818-002DMS 81
34	MS	25	0625F032	PEST1UL	K1405818-002MS TC
35	DMS	26	0625F033	PEST1UL	K1405818-002DMSTC
36	MS	27	0625F034	PEST1UL	K1405818-002MS 24
37	DMS	28	0625F035	PEST1UL	K1405818-002DMS 24
38	SMPL	29	0625F036	PEST1UL	K1405818-003
39	SMPL	30	0625F037	PEST1UL	K1405818-004
40	SMPL	31	0625F038	PEST1UL	K1405920-002 - <i>new Hg</i>
41	SMPL	32	0625F039	PEST1UL	K1405920-005
42	SMPL	33	0625F040	PEST1UL	K1405986-001
43	SMPL	34	0625F041	PEST1UL	K1405986-002

Line Type	Vial	DataFile	Method	Sample Name
44 SMPL	35	0625F042	PEST1UL	K1405986-003
45 SMPL	36	0625F043	PEST1UL	K1405986-004
46 LCS	37	0625F044	PEST1UL	KWG1406763-LCS3
47 LCS	38	0625F045	PEST1UL	KWG1406763-LCS6
48 LCS	39	0625F046	PEST1UL	KWG1406763-LCS9
49 MB	40	0625F047	PEST1UL	KWG1406763-LMB

Exception Report

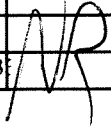
Data File: J:\GC23\DATA\062514\0625F002.D\0625F002C.D
Lab ID: KWG1406791-3
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 06/25/2014 14:30
Date Quantitated: 06/25/2014 16:53
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
	1-Bromo-2-nitrobenzene {4}	0	5189.083333	24756.33333	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F002.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F002.D\0625F002c.d	Vial:	2
Acqu Date:	06/25/2014 14:30	Quant Date:	06/25/2014 16:53
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	MARINE SEDIMENT
Prod Code:	8081B PEST OC	Collect Date:		Receive Date:	06/26/2014

Analysis Lot:	KWG1406791	Prep Lot:		Report Group:	
Analysis Method:	8081B	Prep Method:			
Prep Ref:		Prep Date:			

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.05 ^{-0.11}	5.47 ^{-0.09}	2237515	816215	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	8.79	7.25	1257463	536935	46.83	49.85	NA
				%Recovery =		NA	NA	Limits = 20-106
1	Decachlorobiphenyl	18.50	17.05	1064882	440102	44.11	48.20	NA
				%Recovery =		NA	NA	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units:		Rpt
						ug/L #1	ug/L #2	
1	alpha-BHC	9.64	8.49	1725592	685021	49.99	52.79	
1	Hexachlorobenzene	9.80	8.27	1496777	634170	48.92	50.90	
1	beta-BHC	10.91	9.77	747134	301708	52.30	50.53	
1	gamma-BHC (Lindane)	10.31	9.23	1591191	626937	50.08	52.35	
1	delta-BHC	11.41	10.30	1589602	640100	51.48	54.43	
1	Heptachlor	11.51	9.92	1453131	582006	47.11	52.05	
1	Aldrin	12.06	10.51	1454624	621738	46.27	50.31	
1	Isodrin	12.58	11.30	1180631	494999	44.88	48.29	
1	Heptachlor Epoxide	12.78	11.59	1339734	553839	46.18	50.40	

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F002.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F002.D\0625F002c.d	Vial:	2
Acqu Date:	06/25/2014 14:30	Quant Date:	06/25/2014 16:53
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane	13.30	11.97	1347487	576675	45.93	50.23			
1	Endosulfan I	13.42	12.18	1211420	513841	46.31	51.72			
1	alpha-Chlordane	13.37	12.12	1331944	560684	46.02	49.86			
1	Dieldrin	13.84	12.63	1346656	563949	48.06	50.32			
1	4,4'-DDE	13.65	12.48	1312157	595384	46.58	53.52			
1	Endrin	14.21	13.11	1130723	479193	46.47	49.71			
1	Endosulfan II	14.65	13.54	1170265	485686	48.38	52.67			
1	4,4'-DDD	14.49	13.36	1115553	472577	48.50	54.41			
1	Endrin Aldehyde	14.84	13.90	942696	402618	59.43	56.61			
1	Endosulfan Sulfate	15.31	14.23	1106070	468228	51.62	54.45			
1	4,4'-DDT	14.99	13.79	1057852	430383	51.73	52.32			
1	Endrin Ketone	15.99	15.18	1437855	587079	53.18	55.40			
1	Methoxychlor	15.74	14.89	557497	216171	51.38	51.47			
1	2,4'-DDE	13.07	12.00	833368	374966	44.57	51.97			
1	2,4'-DDD	13.80	12.78	741424	319276	43.56	48.57			
1	2,4'-DDT	14.30	13.20	855371	367597	48.24	52.64			
	Toxaphene			0	0	0.0000	0.0000			NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000			
2	Toxaphene {2}			0d	0d	0.0000	0.0000			
2	Toxaphene {3}			0d	0d	0.0000	0.0000			
2	Toxaphene {4}			0d	0d	0.0000	0.0000			
2	Toxaphene {5}			0d	0d	0.0000	0.0000			
2	Toxaphene {6}			0d	0d	0.0000	0.0000			
	Chlordane			0	0	0.0000	0.0000			NR
3	Chlordane {1}			0d	0d	0.0000	0.0000			
3	Chlordane {2}			0d	0d	0.0000	0.0000			
3	Chlordane {3}			0d	0d	0.0000	0.0000			
3	Chlordane {4}			0d	0d	0.0000	0.0000			
3	Chlordane {5}			0d	0d	0.0000	0.0000			
3	Chlordane {6}			0d	0d	0.0000	0.0000			
4	Chlorpyrifos			0d	0d	0.0000	0.0000			
4	Oxychlordane			0d	0d	0.0000	0.0000			NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000			NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000			NR
4	Mirex			0d	0d	0.0000	0.0000			NR
4	Hexachloroethane			0d	0d	0.0000	0.0000			NR
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000			NR
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F002.D\ECD1A.CH Vial: 2
 Signal #2 : J:\GC23\DATA\062514\0625F002.D\ECD2B.CH
 Acq On : 25 Jun 2014 2:30 pm Operator: SMURRAY
 Sample : 81/24 @ 50ppb GCPS7-73G Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 25 16:44:55 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

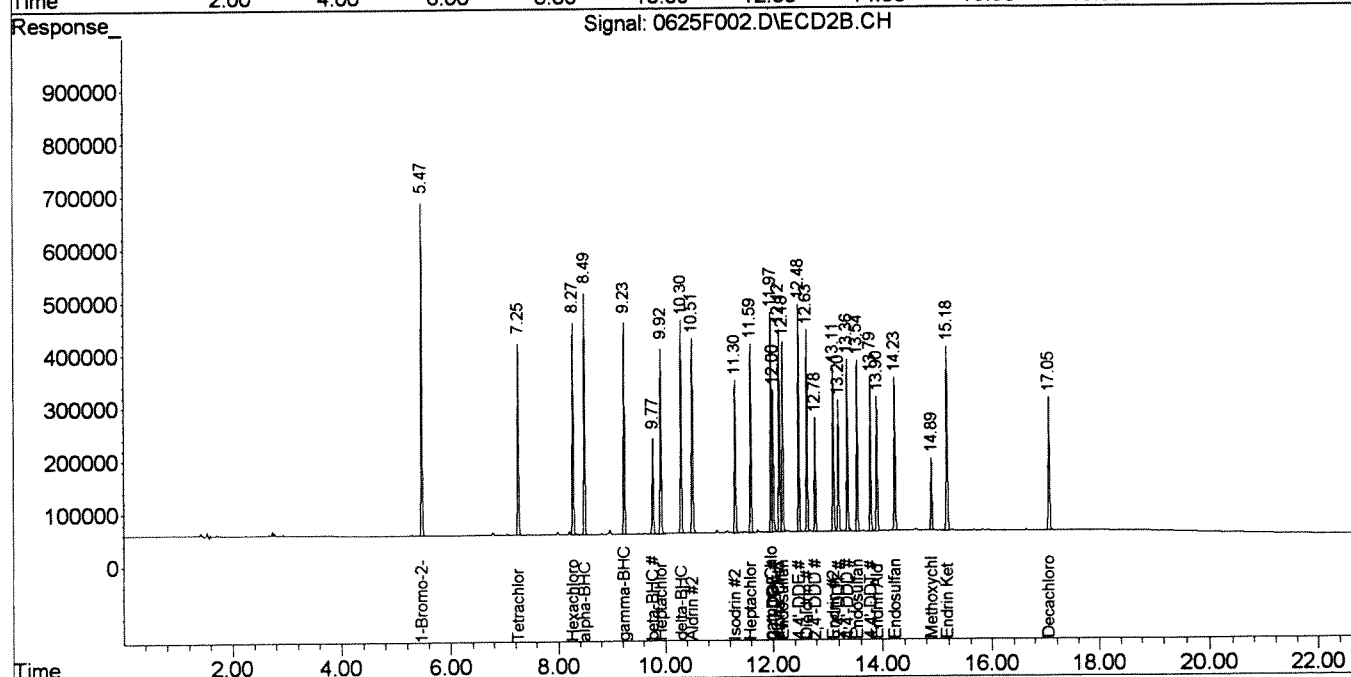
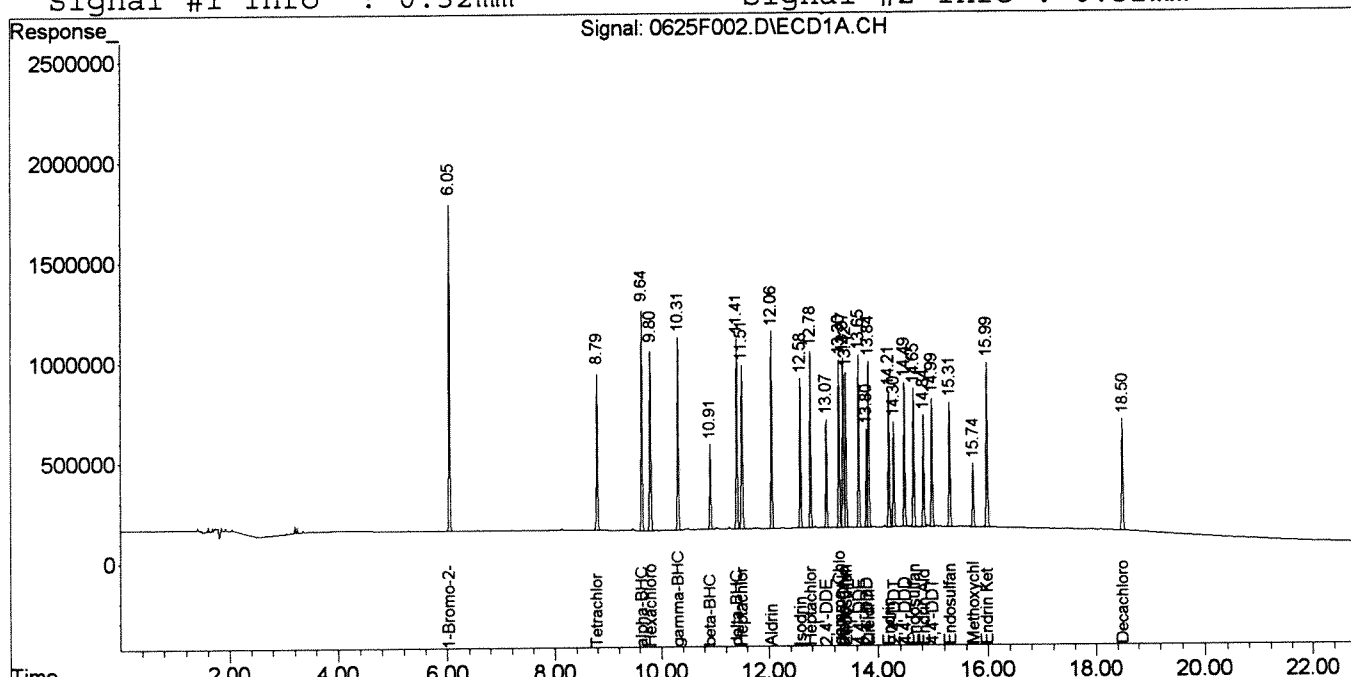
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.05	5.47	2237515	816215	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.79	7.25	1257463	536935	46.831	49.850
28) s Decachlorobiphen	18.50	17.05	1064882	440102	44.114	48.204
Target Compounds						
3) alpha-BHC	9.64	8.49	1725592	685021	49.994	52.789
4) Hexachlorobenzen	9.80	8.27	1496777	634170	48.924	50.902
5) beta-BHC	10.91	9.77	747134	301708	52.300	50.528
6) gamma-BHC (Linda	10.31	9.23	1591191	626937	50.078	52.347
7) delta-BHC	11.41	10.30	1589602	640100	51.479	54.429
8) Heptachlor	11.51	9.92	1453131	582006	47.110	52.053
9) Aldrin	12.06	10.51	1454624	621738	46.269	50.313
10) Isodrin	12.58	11.30	1180631	494999	44.878	48.285
11) Heptachlor Epoxi	12.78	11.59	1339734	553839	46.181	50.399
12) gamma-Chlordane	13.30	11.97	1347487	576675	45.927	50.233
13) Endosulfan I	13.42	12.18	1211420	513841	46.309	51.717
14) alpha-Chlordane	13.37	12.12	1331944	560684	46.017	49.860
15) Dieldrin	13.84	12.63	1346656	563949	48.060	50.319
16) 4,4'-DDE	13.65	12.48	1312157	595384	46.577	53.523
17) Endrin	14.21	13.11	1130723	479193	46.474	49.707
18) Endosulfan II	14.65	13.54	1170265	485686	48.382	52.665
19) 4,4'-DDD	14.49	13.36	1115553	472577	48.500	54.414
20) Endrin Aldehyde	14.84	13.90	942696	402618	59.425	56.614
21) Endosulfan Sulfa	15.31	14.23	1106070	468228	51.624	54.452
22) 4,4'-DDT	14.99	13.79	1057852	430383	51.730	52.320
23) Endrin Ketone	15.99	15.18	1437855	587079	53.184	55.397
24) Methoxychlor	15.74	14.89	557497	216171	51.382	51.465
25) 2,4'-DDE	13.07	12.00	833368	374966	44.570	51.969
26) 2,4'-DDD	13.80	12.78	741424	319276	43.556	48.573
27) 2,4'-DDT	14.30	13.20	855371	367597	48.239	52.644

Signal #1 : J:\GC23\DATA\062514\0625F002.D\ECD1A.CH Vial: 2
 Signal #2 : J:\GC23\DATA\062514\0625F002.D\ECD2B.CH
 Acq On : 25 Jun 2014 2:30 pm Operator: SMURRAY
 Sample : 81/24 @ 50ppb GCPS7-73G Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 25 16:53 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

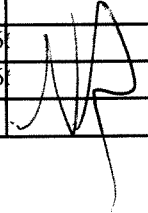
Data File: J:\GC23\DATA\062514\0625F003.D
Lab ID: KWG1406791-3
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 06/25/2014 14:59
Date Quantitated: 06/26/2014 12:18
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene	0	3664.166666	54656.66666	
	1-Bromo-2-nitrobenzene {3}	0	2579.916666	30319.66666	
	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	

Primary Review: _____

Secondary Review: _____

Exception Report


Data File: J:\GC23\DATA\062514\0625F003.D\0625F003C.D
Lab ID: KWG1406791-3
RunType: CCV
Matrix: MARINE SEDIMENT

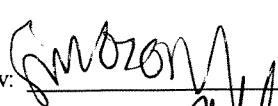
Date Acquired: 06/25/2014 14:59
Date Quantitated: 06/26/2014 12:18
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene	0	1685.333333	16741.333333	
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
	1-Bromo-2-nitrobenzene {4}	0	5189.083333	24756.333333	

Primary Review: 

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F003.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F003.D\0625F003c.d	Vial:	3
Acqu Date:	06/25/2014 14:59	Quant Date:	06/26/2014 12:18
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	MARINE SEDIMENT
Prod Code:	8081B PEST OC	Collect Date:		Receive Date:	06/26/2014

Analysis Lot:	KWG1406791	Prep Lot:		Report Group:	
Analysis Method:	8081B	Prep Method:			
Prep Ref:		Prep Date:			

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene			0d	0d	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.05 ^{+0.13}	5.47 ^{+0.08}	2159555	797472	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	0.00		0d	0d		0.0000	NR
				%Recovery =		NA	NA	Limits = 20-106
1	Decachlorobiphenyl	0.00		0d	0d		0.0000	NR
				%Recovery =		NA	NA	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units:		Rpt
						ug/L #1	ug/L #2	
1	alpha-BHC			0d	0d	0.0000	0.0000	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	NR
1	beta-BHC			0d	0d	0.0000	0.0000	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	NR
1	delta-BHC			0d	0d	0.0000	0.0000	NR
1	Heptachlor			0d	0d	0.0000	0.0000	NR
1	Aldrin			0d	0d	0.0000	0.0000	NR
1	Isodrin			0d	0d	0.0000	0.0000	NR
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

?: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F003.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F003.D\0625F003c.d	Vial:	3
Acqu Date:	06/25/2014 14:59	Quant Date:	06/26/2014 12:18
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000			NR
1	Endosulfan I			0d	0d	0.0000	0.0000			NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000			NR
1	Dieldrin			0d	0d	0.0000	0.0000			NR
1	4,4'-DDE			0d	0d	0.0000	0.0000			NR
1	Endrin			0d	0d	0.0000	0.0000			NR
1	Endosulfan II			0d	0d	0.0000	0.0000			NR
1	4,4'-DDD			0d	0d	0.0000	0.0000			NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000			NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000			NR
1	4,4'-DDT			0d	0d	0.0000	0.0000			NR
1	Endrin Ketone			0d	0d	0.0000	0.0000			NR
1	Methoxychlor			0d	0d	0.0000	0.0000			NR
1	2,4'-DDE			0d	0d	0.0000	0.0000			NR
1	2,4'-DDD			0d	0d	0.0000	0.0000			NR
1	2,4'-DDT			0d	0d	0.0000	0.0000			NR
	Toxaphene			0	0	1,004	1,064			
2	Toxaphene {1}	14.60	13.60	129730m	157239m	909.21	1,013			
2	Toxaphene {2}	14.65	13.66	187375m	63165m	890.45	1,033			
2	Toxaphene {3}	14.77	13.93	472063m	89959m	957.88	1,090			
2	Toxaphene {4}	14.84	14.28	316745m	97307m	1,010	970.79			
2	Toxaphene {5}	15.19	14.66	320438m	204802m	1,002	1,097			
2	Toxaphene {6}	16.07	14.87	531940m	160593m	1,256	1,180			
	Chlordane			0	0	0.0000	0.0000			NR
3	Chlordane {1}			0d	0d	0.0000	0.0000			
3	Chlordane {2}			0d	0d	0.0000	0.0000			
3	Chlordane {3}			0d	0d	0.0000	0.0000			
3	Chlordane {4}			0d	0d	0.0000	0.0000			
3	Chlordane {5}			0d	0d	0.0000	0.0000			
3	Chlordane {6}			0d	0d	0.0000	0.0000			
4	Chlorpyrifos			0d	0d	0.0000	0.0000			
4	Oxychlordane			0d	0d	0.0000	0.0000			NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000			NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000			NR
4	Mirex			0d	0d	0.0000	0.0000			NR
4	Hexachloroethane			0d	0d	0.0000	0.0000			NR
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000			NR
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
 Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
 Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 25 16:44:58 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
----------	------	------	--------	--------	------	------

Internal Standards						
29)	1-Bromo-2-nitrob	6.05	5.47	2159555	797472	100.000 100.000

System Monitoring Compounds

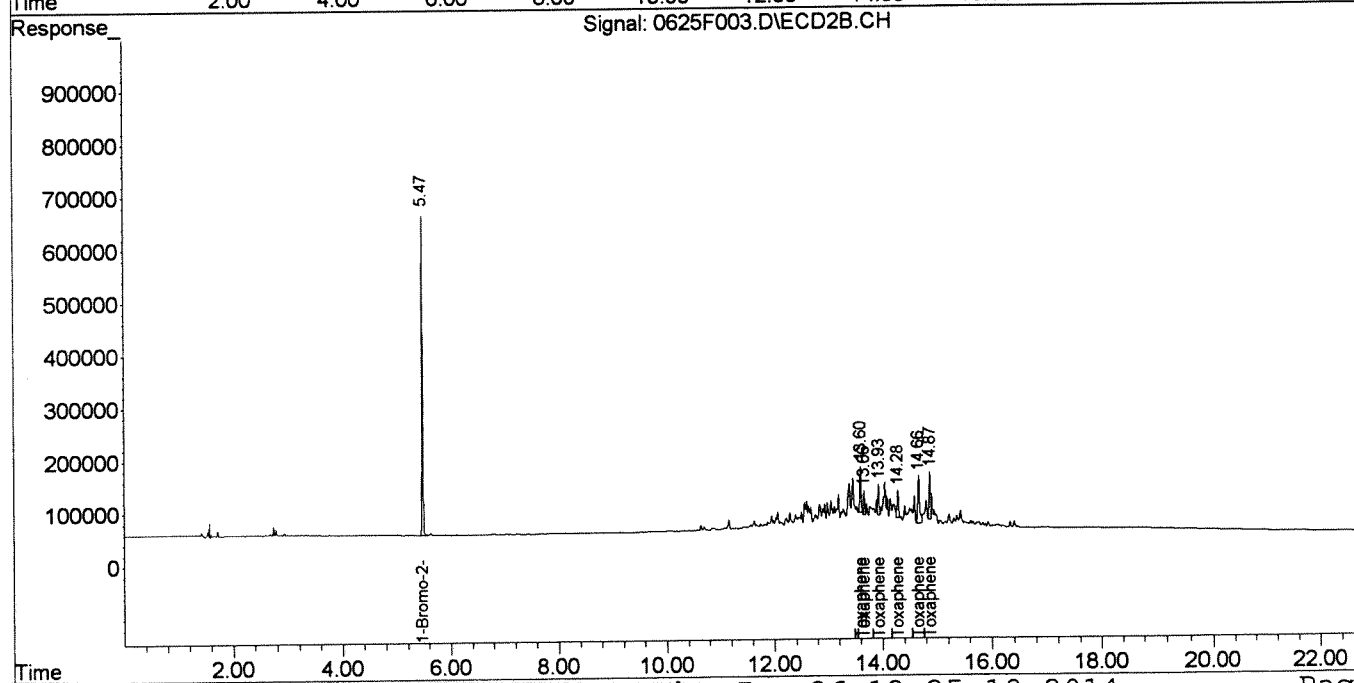
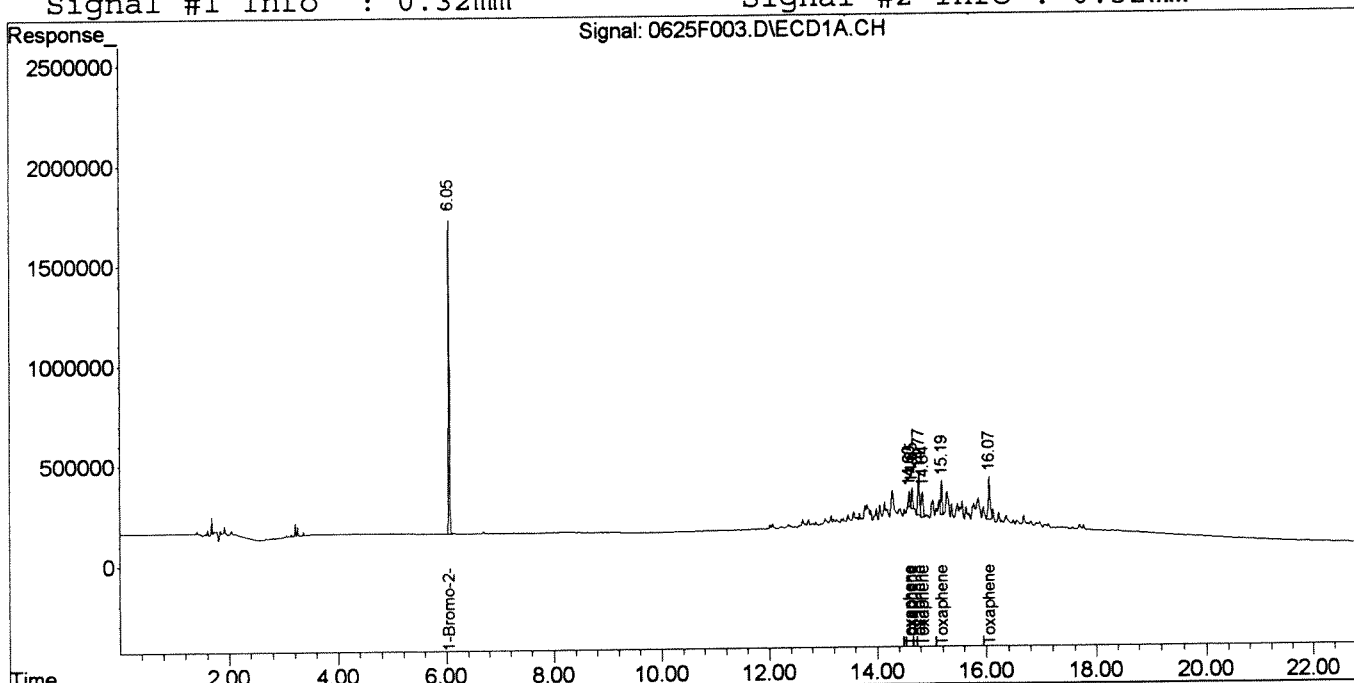
Target Compounds

30)	Toxaphene	14.60	13.60	129730	157239	909.214m 1013.437m
31)	Toxaphene {2}	14.65	13.66	187375	63165	890.447m 1032.916m
32)	Toxaphene {3}	14.77	13.93	472063	89959	957.880m 1090.448m
33)	Toxaphene {4}	14.84	14.28	316745	97307	1009.643m 970.791m
34)	Toxaphene {5}	15.19	14.66	320438	204802	1001.532m 1096.934m
35)	Toxaphene {6}	16.07	14.87	531940	160593	1256.471m 1180.453m

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
 Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
 Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:18 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

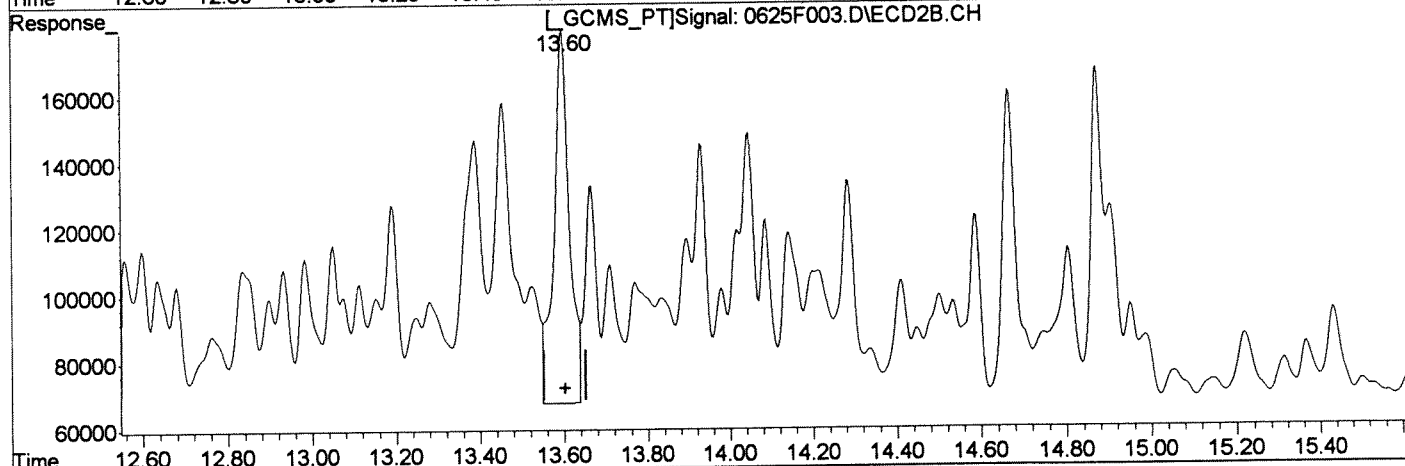
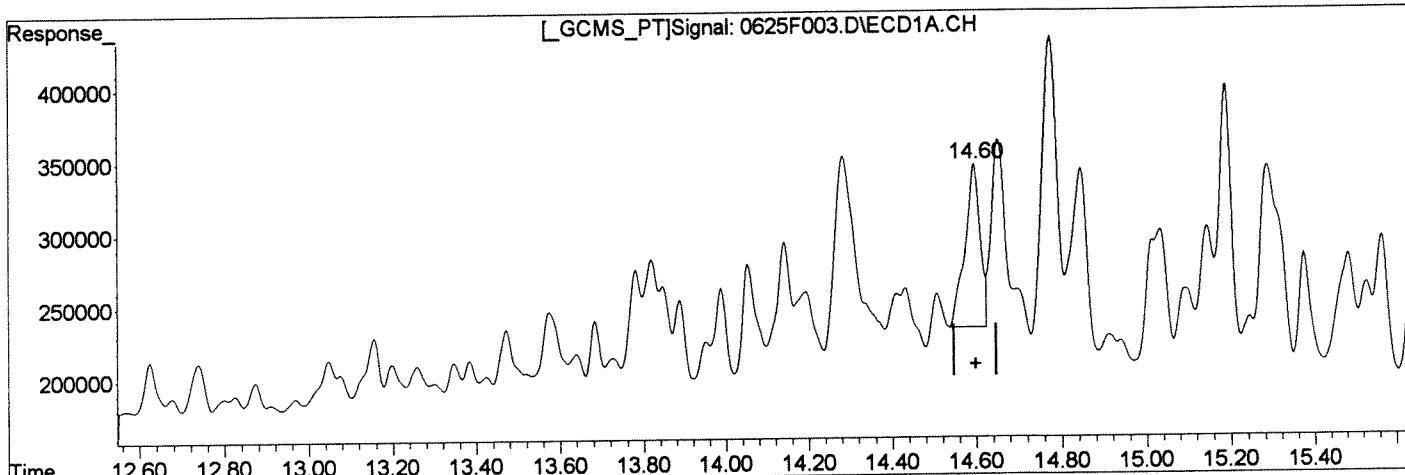
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
14.60	2001.504	285582
13.60	1845.531	286342

Manual Integration:
Before
06/26/14

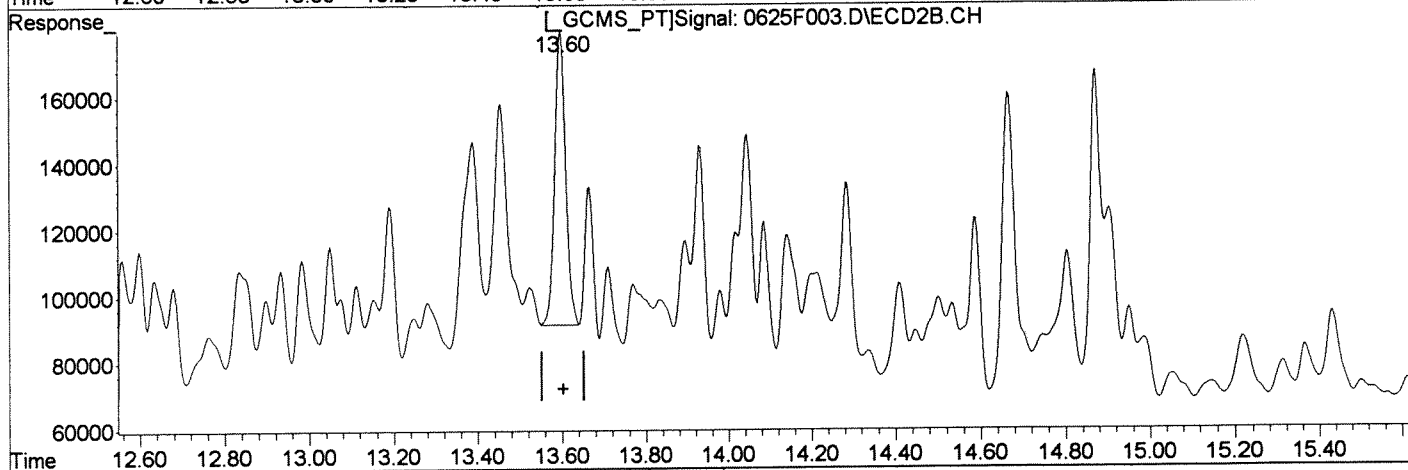
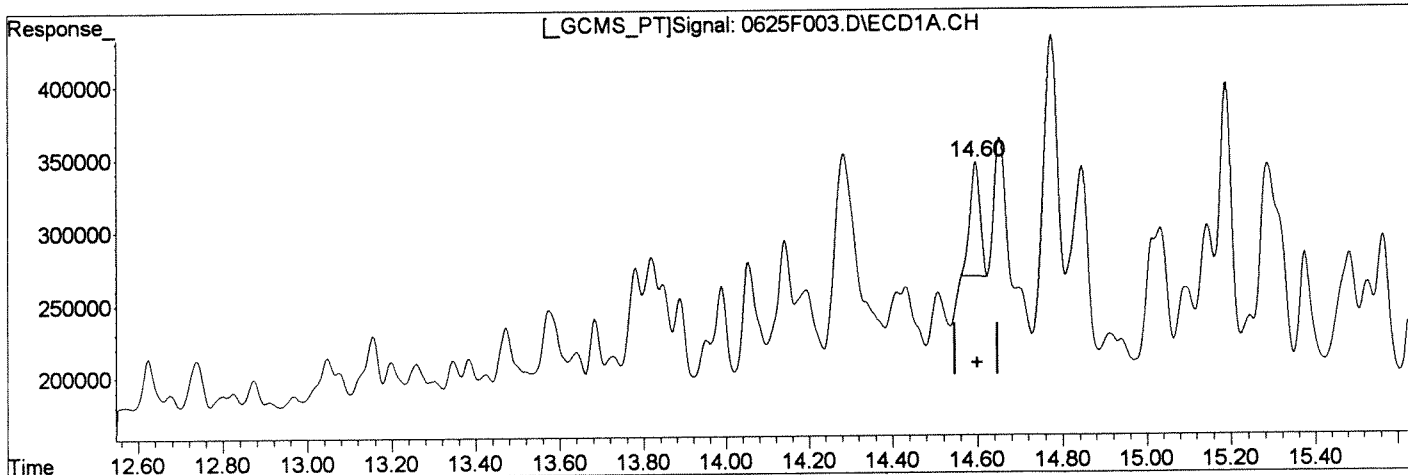
(+) = Expected Retention Time
0625F003.D GC23-031714-8081.M

Thu Jun 26 12:17:14 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.60min 909.214ug/L m	After
response 129730	Baseline/Shoulder
	06/26/14
(30) Toxaphene #2	
13.60min 1013.437ug/L m	
response 157239	

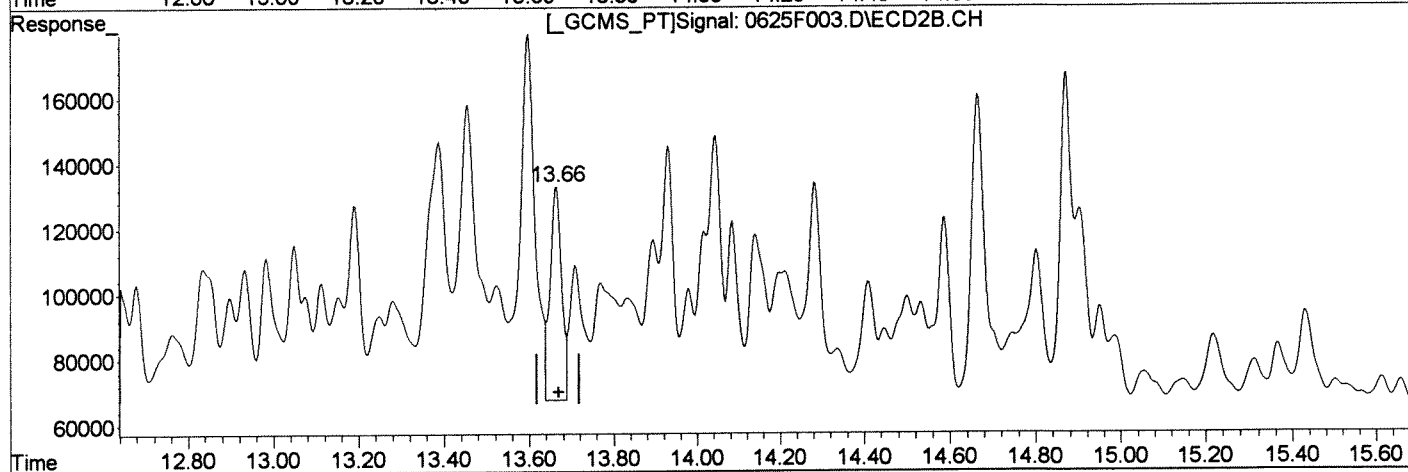
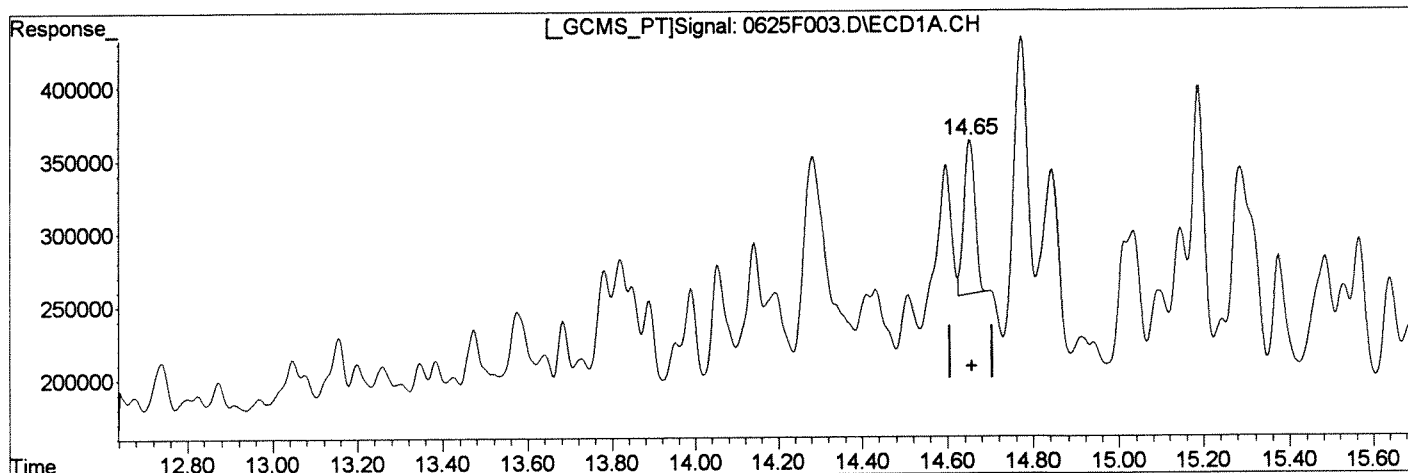
(+) = Expected Retention Time
0625F003.D GC23-031714-8081.M

Thu Jun 26 12:17:25 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

(31) Toxaphene {2}
14.65min 916.827ug/L
response 192926

(31) Toxaphene {2} #2
13.66min 2001.436ug/L
response 122392

Manual Integration:

Before

06/26/14

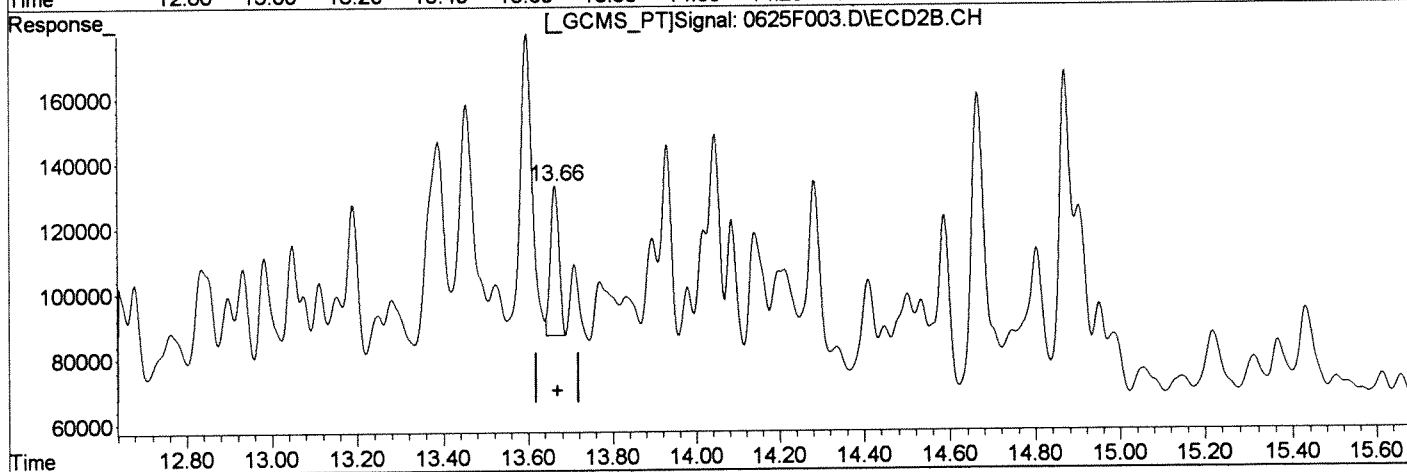
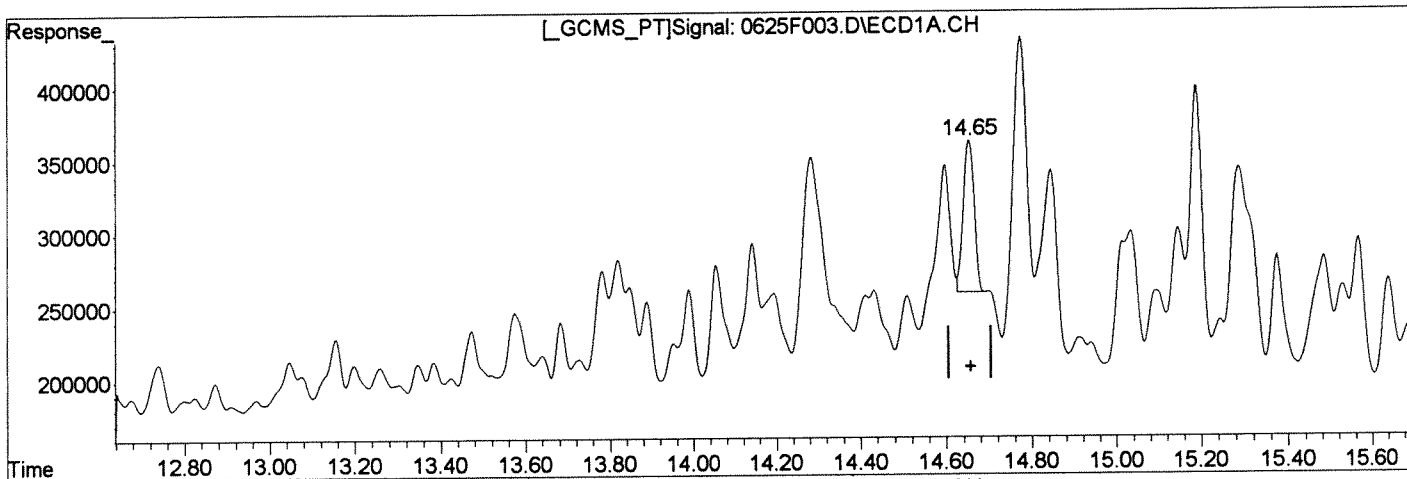
(+) = Expected Retention Time
0625F003.D GC23-031714-8081.M

Thu Jun 26 12:17:27 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L m)	Response
14.65	890.447	187375
13.66	1032.916	63165

Manual Integration:
After
Baseline/Shoulder
06/26/14

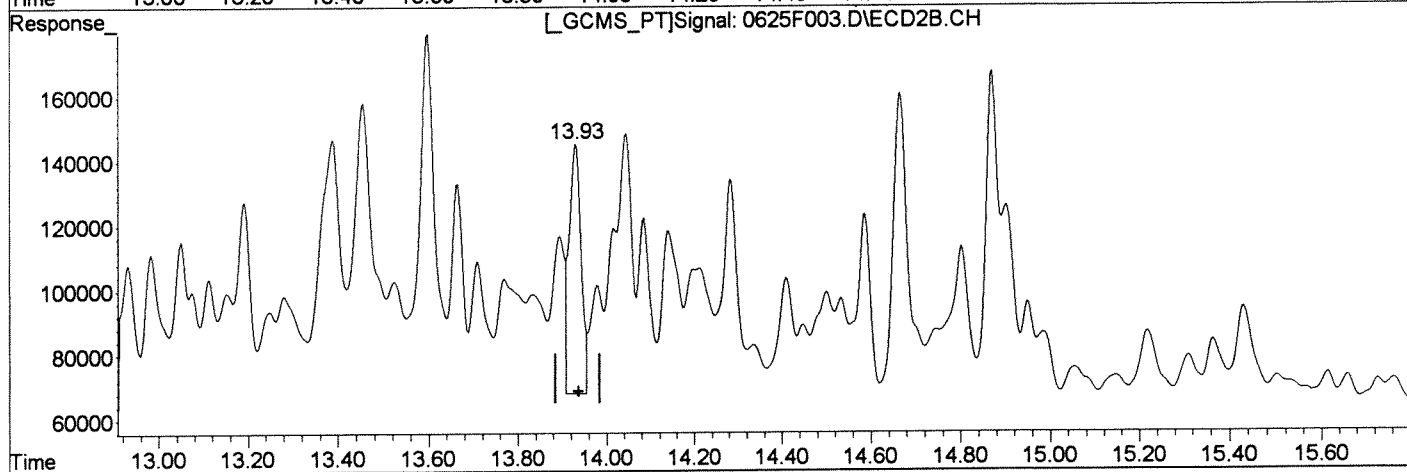
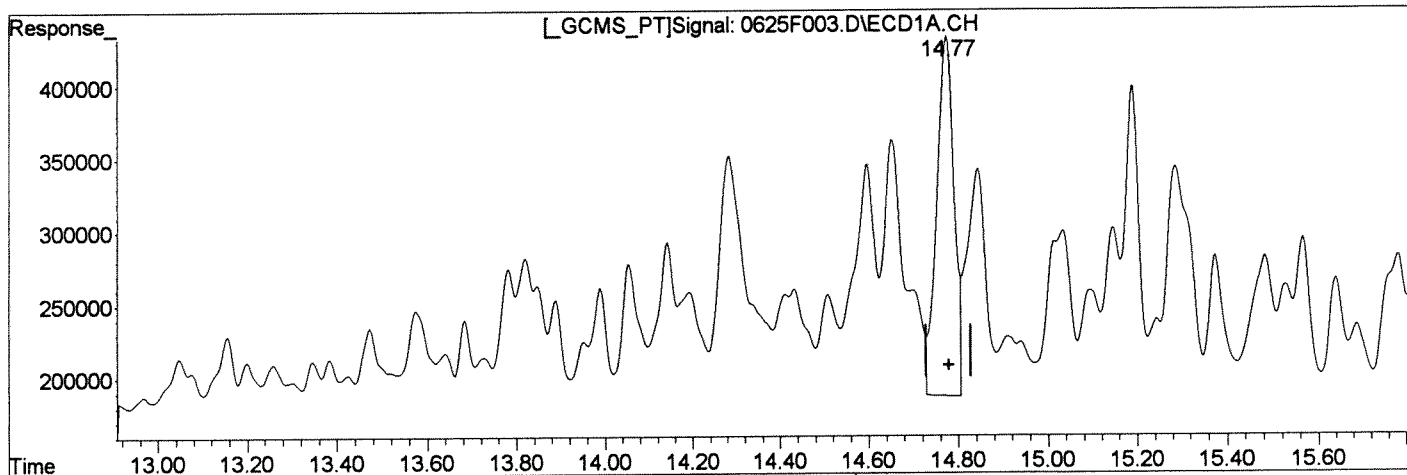
(+) = Expected Retention Time
0625F003.D GC23-031714-8081.M

Thu Jun 26 12:17:45 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

Retention Time (min)	Response	Integration Status
14.77	654046	Manual Integration: Before
13.93	141099	Manual Integration: Before

06/26/14

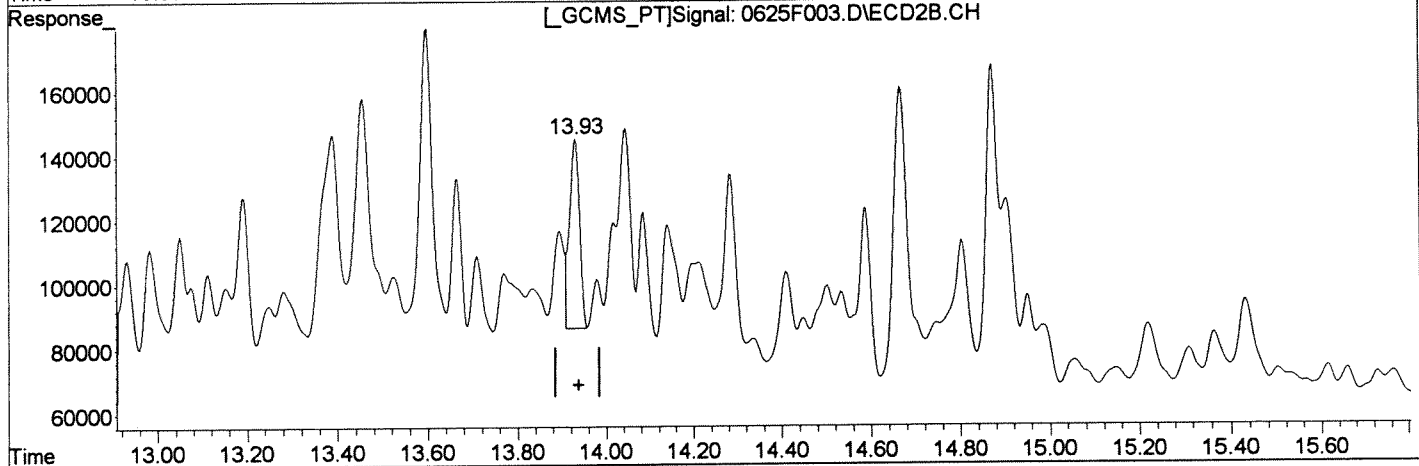
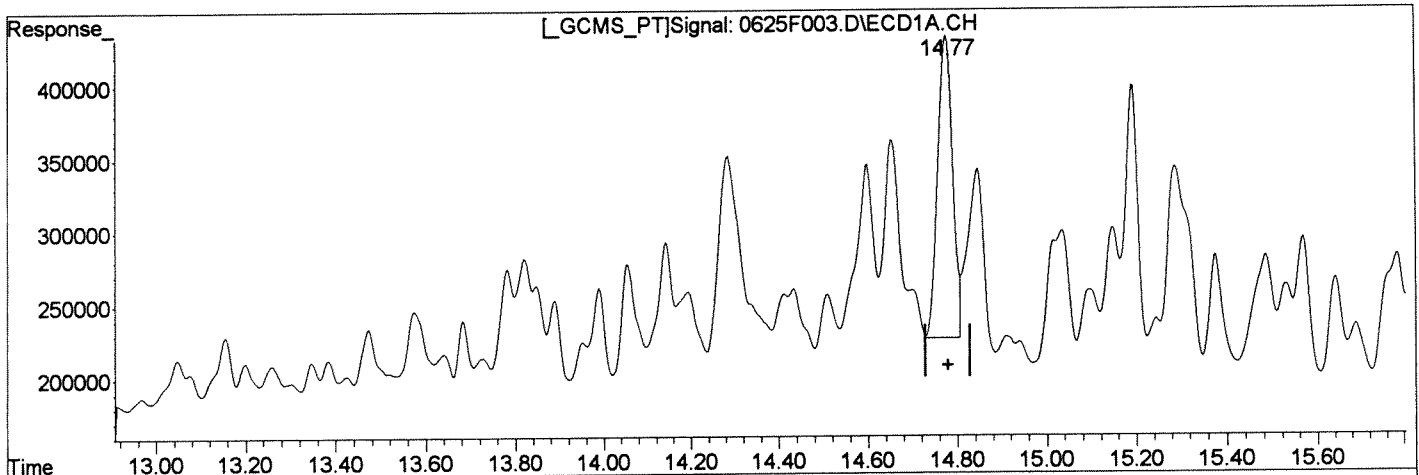
(+) = Expected Retention Time
0625F003.D GC23-031714-8081.M

Thu Jun 26 12:17:46 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

Retention Time (min)	Response	Concentration (ug/L m)
14.77	472063	957.880
13.93	89959	1090.448

Manual Integration:
After
Baseline/Shoulder
06/26/14

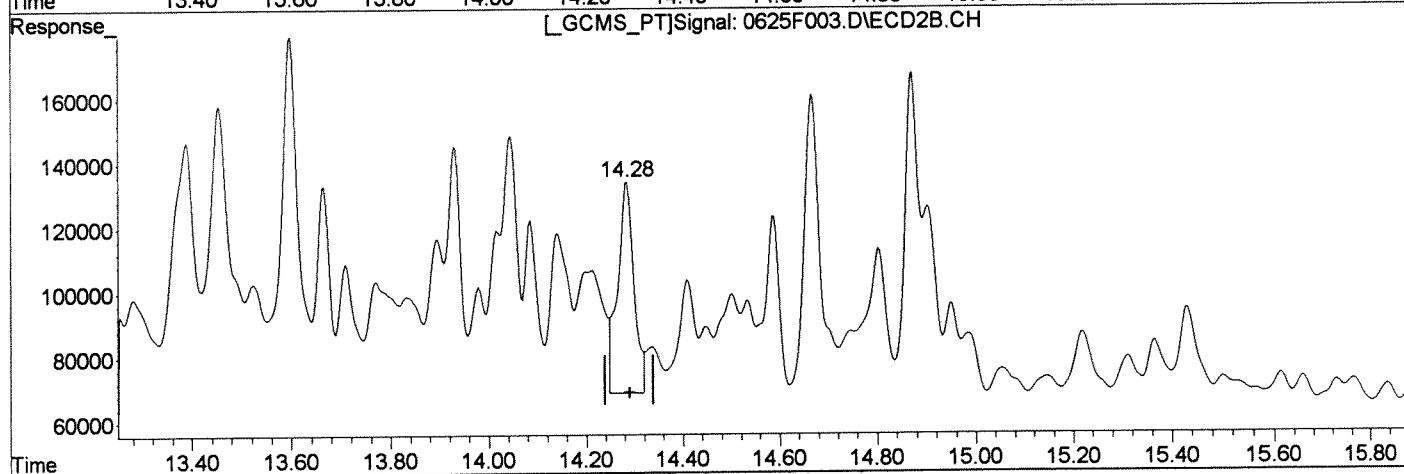
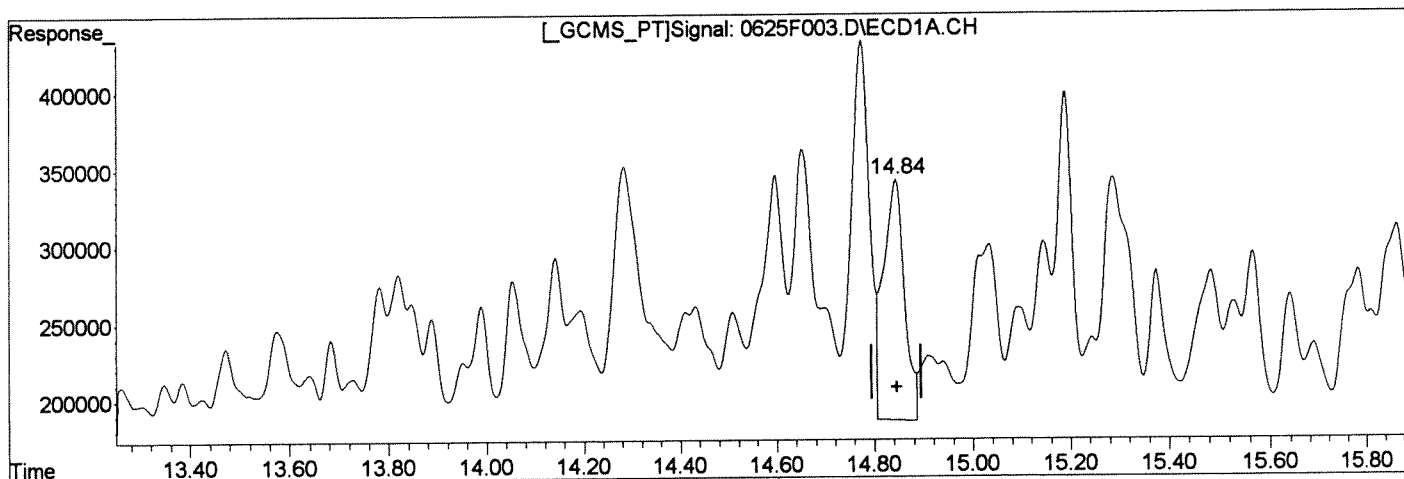
(+) = Expected Retention Time
0625F003.D GC23-031714-8081.M

Thu Jun 26 12:17:58 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
14.84	1469.387	460976
14.28	1494.412	149792

Manual Integration:
Before
06/26/14

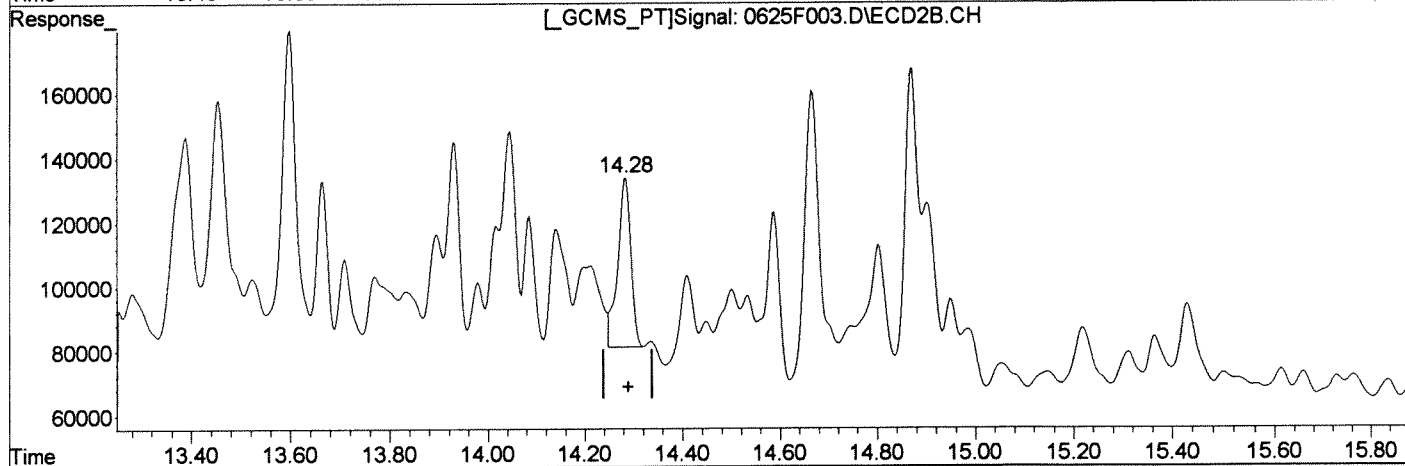
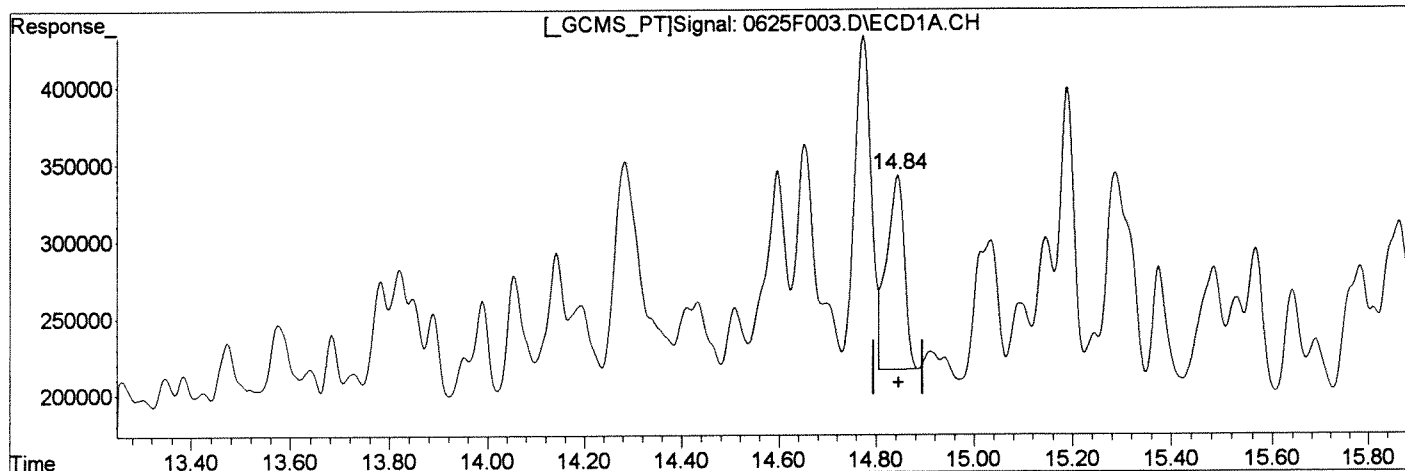
(+) = Expected Retention Time
0625F003.D GC23-031714-8081.M

Thu Jun 26 12:17:59 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L m)	Response
14.84	1009.643	316745
14.28	970.791	97307

Manual Integration:
After
Baseline/Shoulder
06/26/14

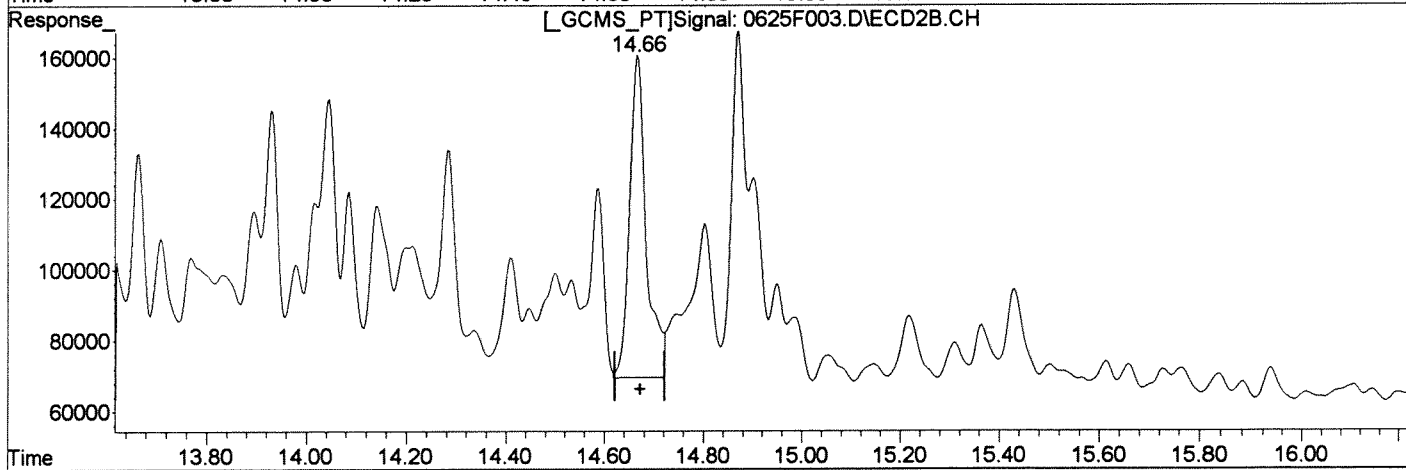
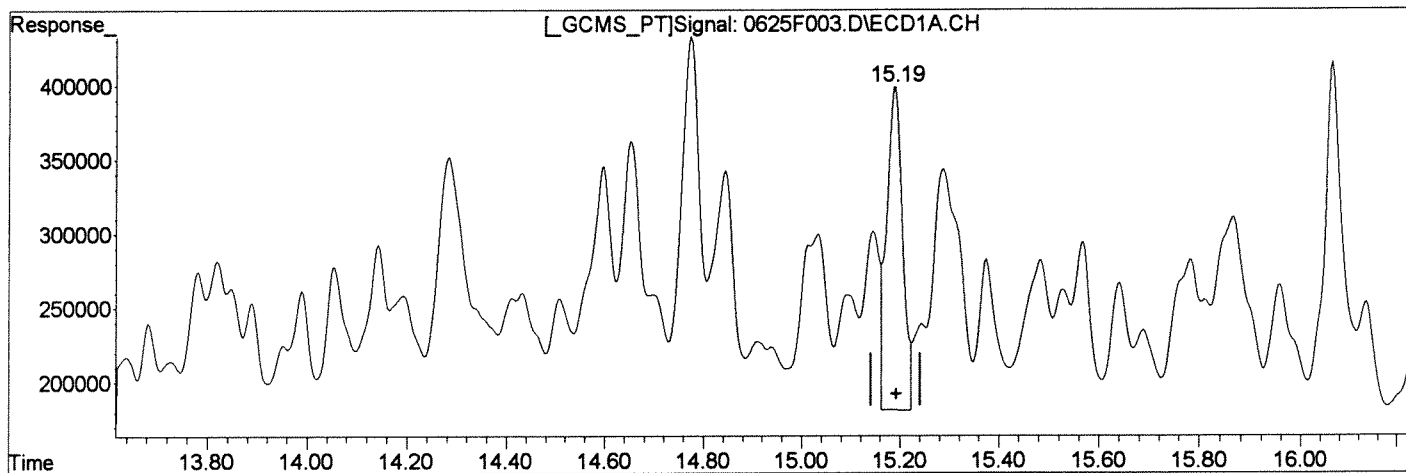
(+) = Expected Retention Time
0625F003.D GC23-031714-8081.M

Thu Jun 26 12:18:09 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
15.19	1502.001	480562
14.66	1137.464	212369

Manual Integration:
Before
06/26/14

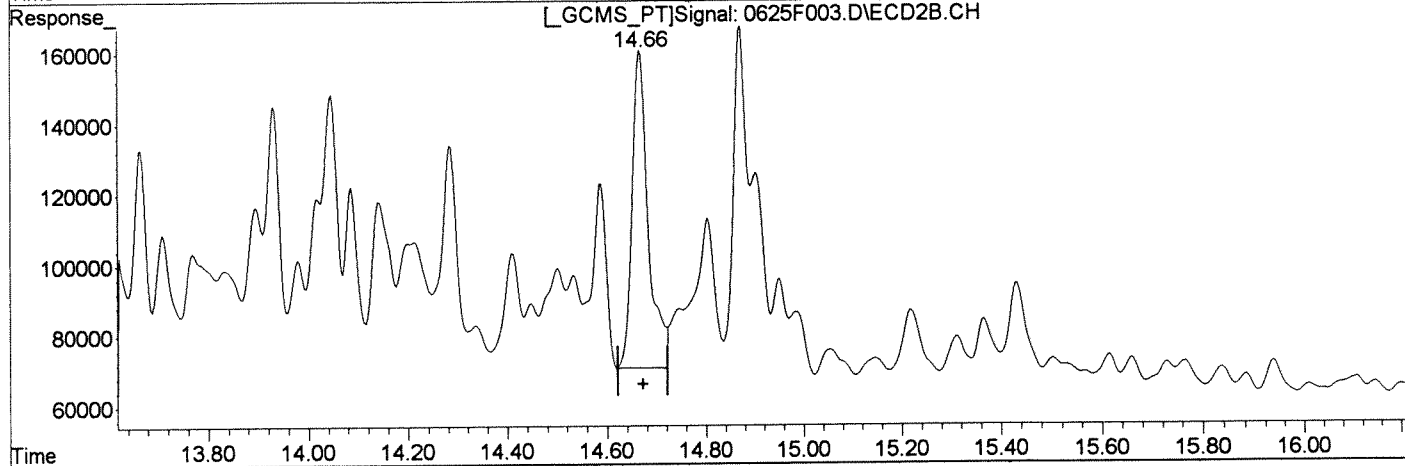
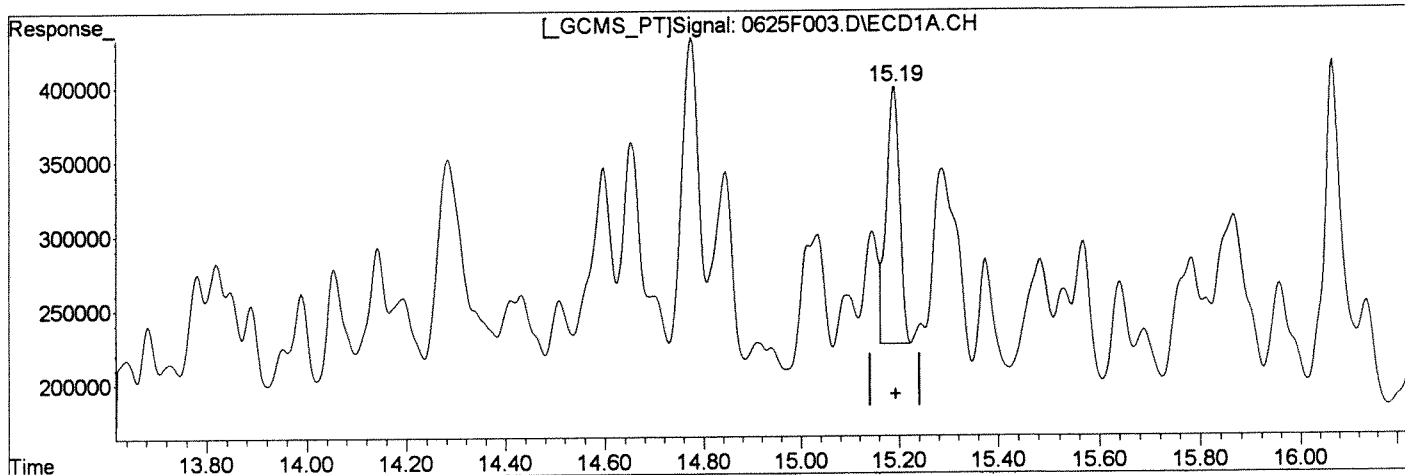
(+) = Expected Retention Time
0625F003.D GC23-031714-8081.M

Thu Jun 26 12:18:10 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
 Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
 Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

(34) Toxaphene (5)	Manual Integration:
15.19min 1001.532ug/L m	After
response 320438	Baseline/Shoulder
	06/26/14
(34) Toxaphene (5) #2	
14.66min 1096.934ug/L m	
response 204802	

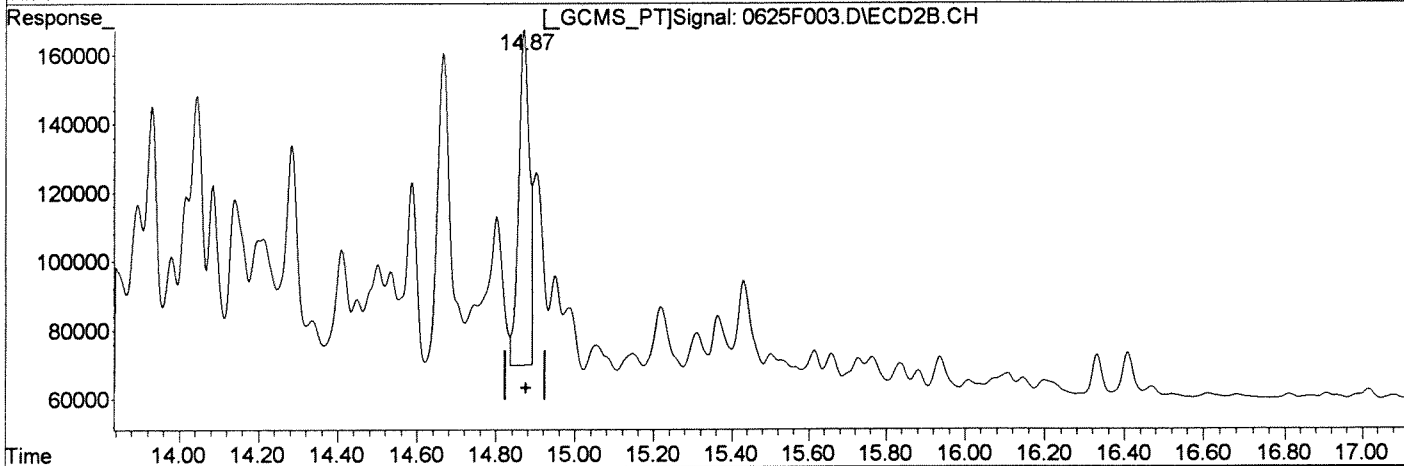
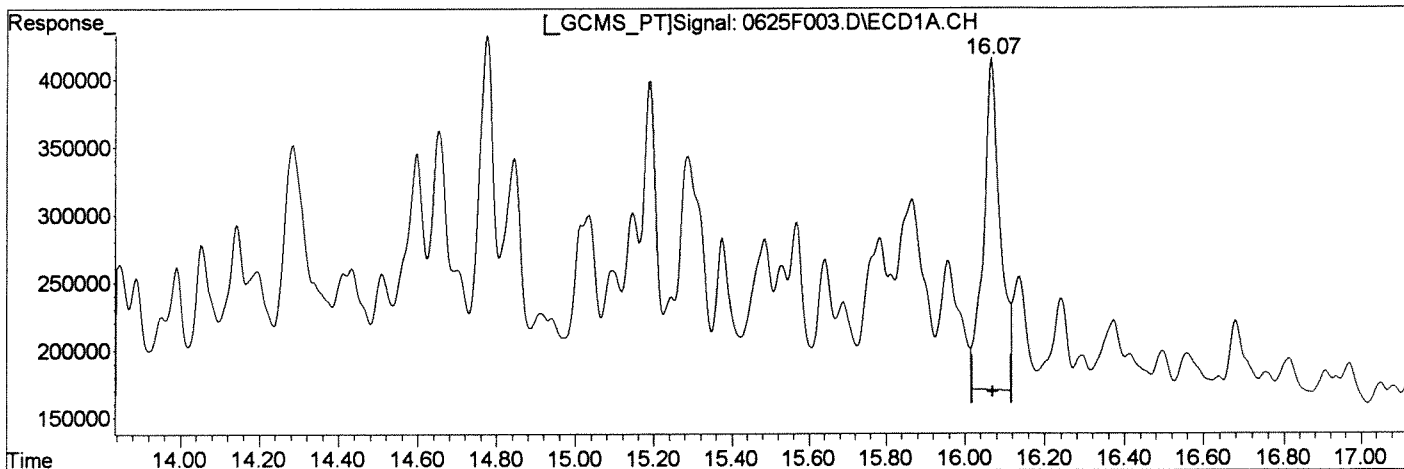
(+) = Expected Retention Time
 0625F003.D GC23-031714-8081.M

Thu Jun 26 12:18:22 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
16.07	1696.253	718126
14.87	1382.837	188126

Manual Integration:
Before
06/26/14

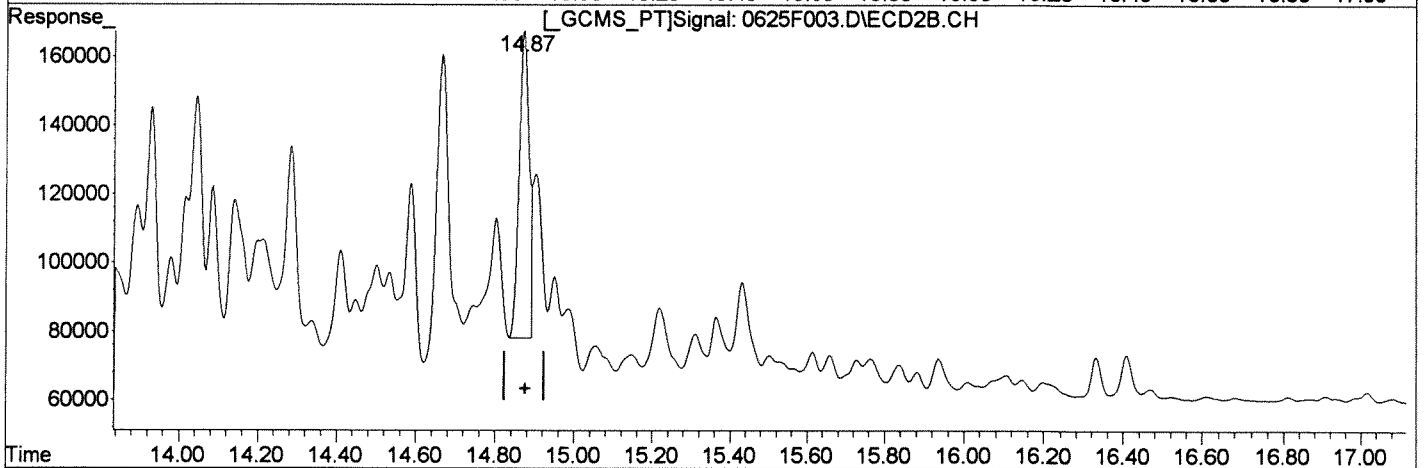
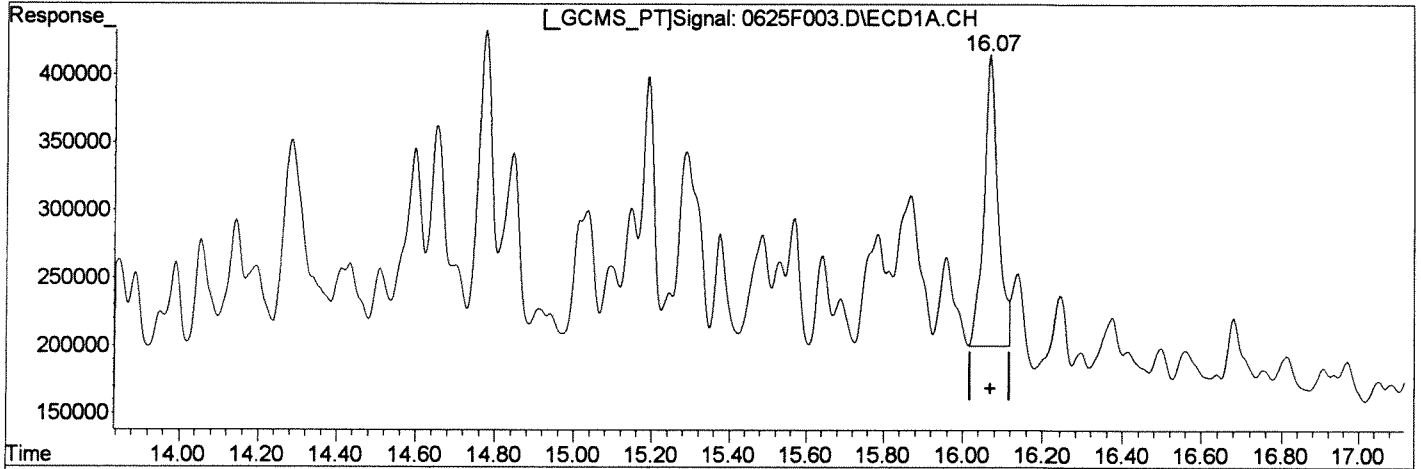
(+) = Expected Retention Time
0625F003.D GC23-031714-8081.M

Thu Jun 26 12:18:23 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F003.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F003.D\ECD2B.CH
Acq On : 25 Jun 2014 2:59 pm Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 25 16:45 2014 Quant Results File: GC23-031714-8081.RES

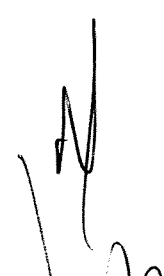
Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F003.D\ECD1A.CH

Retention Time (min)	Response	Concentration (ug/L m)
16.07	531940	1256.471
14.87	160593	1180.453

Manual Integration:
After
Baseline/Shoulder
06/26/14



(+) = Expected Retention Time
0625F003.D GC23-031714-8081.M

Thu Jun 26 12:18:34 2014

Exception Report


Data File: J:\GC23\DATA\062514\0625F004.D
Lab ID: KWG1406791-3
RunType: CCV
Matrix: MARINE SEDIMENT

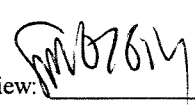
Date Acquired: 06/25/2014 15:29
Date Quantitated: 06/26/2014 12:18
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

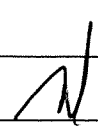
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene	0	3664.166666	54656.66666	
	1-Bromo-2-nitrobenzene {2}	0	9461.666666	37846.66666	
	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	

Primary Review: 

Secondary Review: 

Exception Report

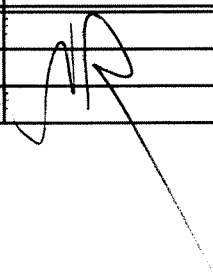
Data File: J:\GC23\DATA\062514\0625F004.D\0625F004C.D
Lab ID: KWG1406791-3
RunType: CCV
Matrix: MARINE SEDIMENT

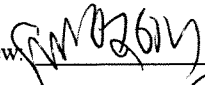
Date Acquired: 06/25/2014 15:29
Date Quantitated: 06/26/2014 12:18
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

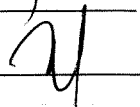
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene	0	1685.333333	16741.333333	
	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	
	1-Bromo-2-nitrobenzene {4}	0	189.083333	24756.333333	

Primary Review: 

Secondary Review: 

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F004.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F004.D\0625F004c.d	Vial:	4
Acqu Date:	06/25/2014 15:29	Quant Date:	06/26/2014 12:18
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	MARINE SEDIMENT
Prod Code:	8081B PEST OC	Collect Date:		Receive Date:	06/26/2014

Analysis Lot:	KWG1406791	Prep Lot:		Report Group:	
Analysis Method:	8081B	Prep Method:			
Prep Ref:		Prep Date:			

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene			0d	0d	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.06 ^{+0.06}	5.48 ^{+0.04}	2164916	799255	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	0.00		0d	0d		0.0000	NR
				%Recovery =		NA	NA	Limits = 20-106
1	Decachlorobiphenyl	0.00		0d	0d		0.0000	NR
				%Recovery =		NA	NA	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units:		Rpt
						ug/L #1	ug/L #2	
1	alpha-BHC			0d	0d	0.0000	0.0000	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	NR
1	beta-BHC			0d	0d	0.0000	0.0000	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	NR
1	delta-BHC			0d	0d	0.0000	0.0000	NR
1	Heptachlor			0d	0d	0.0000	0.0000	NR
1	Aldrin			0d	0d	0.0000	0.0000	NR
1	Isodrin			0d	0d	0.0000	0.0000	NR
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F004.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F004.D\0625F004c.d	Vial:	4
Acqu Date:	06/25/2014 15:29	Quant Date:	06/26/2014 12:18
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000			NR
1	Endosulfan I			0d	0d	0.0000	0.0000			NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000			NR
1	Dieldrin			0d	0d	0.0000	0.0000			NR
1	4,4'-DDE			0d	0d	0.0000	0.0000			NR
1	Endrin			0d	0d	0.0000	0.0000			NR
1	Endosulfan II			0d	0d	0.0000	0.0000			NR
1	4,4'-DDD			0d	0d	0.0000	0.0000			NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000			NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000			NR
1	4,4'-DDT			0d	0d	0.0000	0.0000			NR
1	Endrin Ketone			0d	0d	0.0000	0.0000			NR
1	Methoxychlor			0d	0d	0.0000	0.0000			NR
1	2,4'-DDE			0d	0d	0.0000	0.0000			NR
1	2,4'-DDD			0d	0d	0.0000	0.0000			NR
1	2,4'-DDT			0d	0d	0.0000	0.0000			NR
	Toxaphene			0	0	0.0000	0.0000			NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000			
2	Toxaphene {2}			0d	0d	0.0000	0.0000			
2	Toxaphene {3}			0d	0d	0.0000	0.0000			
2	Toxaphene {4}			0d	0d	0.0000	0.0000			
2	Toxaphene {5}			0d	0d	0.0000	0.0000			
2	Toxaphene {6}			0d	0d	0.0000	0.0000			
	Chlordane			0	0	479.58	500.02			
3	Chlordane {1}	11.10	9.58	449343	158570	509.62	482.94			
3	Chlordane {2}	11.53	9.93	763304	279054	518.47	533.55			
3	Chlordane {3}	12.12	11.98	438161	587250	483.72	503.50			
3	Chlordane {4}	13.31	12.03	1590824	347496	469.79	496.19			
3	Chlordane {5}	13.39	12.09	1128575	192362	451.07	490.80			
3	Chlordane {6}	13.47	12.13	807882	469356	444.83	493.13			
4	Chlorpyrifos			0d	0d	0.0000	0.0000			
4	Oxychlordane			0d	0d	0.0000	0.0000			NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000			NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000			NR
4	Mirex			0d	0d	0.0000	0.0000			NR
4	Hexachloroethane			0d	0d	0.0000	0.0000			NR
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000			NR
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F004.D\ECD1A.CH Vial: 4
 Signal #2 : J:\GC23\DATA\062514\0625F004.D\ECD2B.CH
 Acq On : 25 Jun 2014 3:29 pm Operator: SMURRAY
 Sample : CHLOR @ 500ppb GCPS7-80B Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 25 16:45:00 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

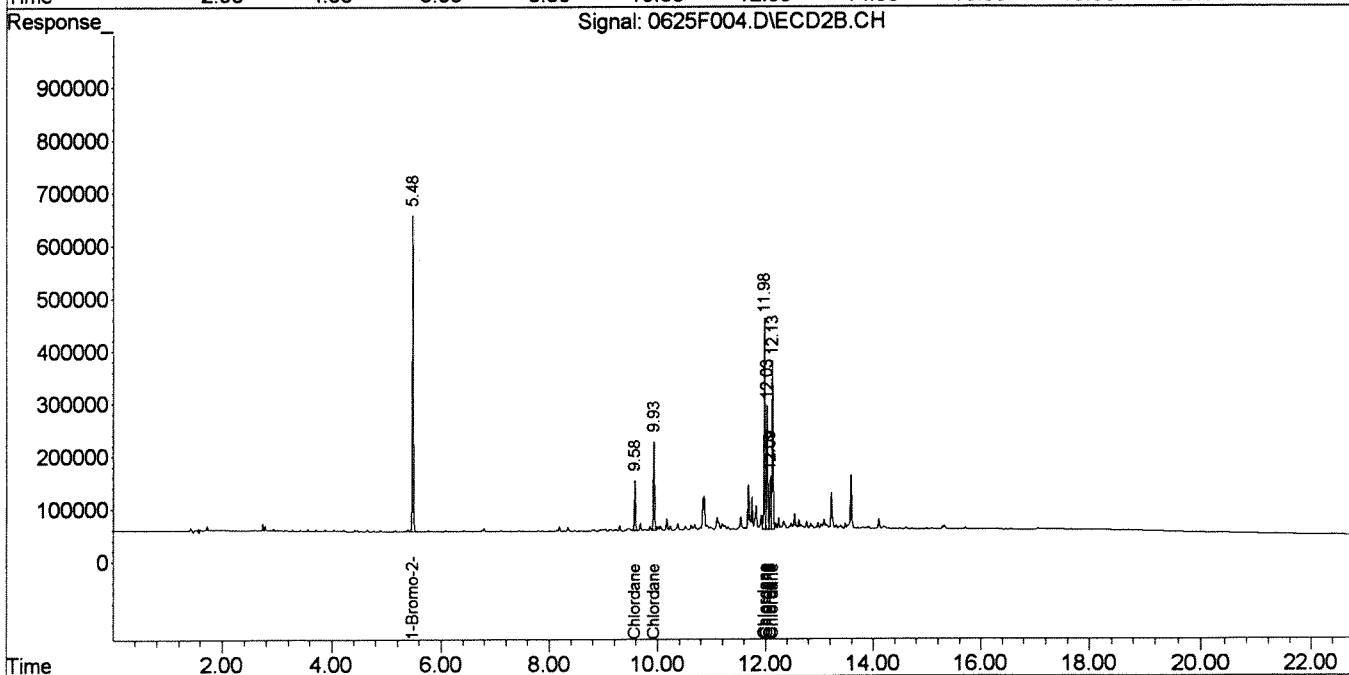
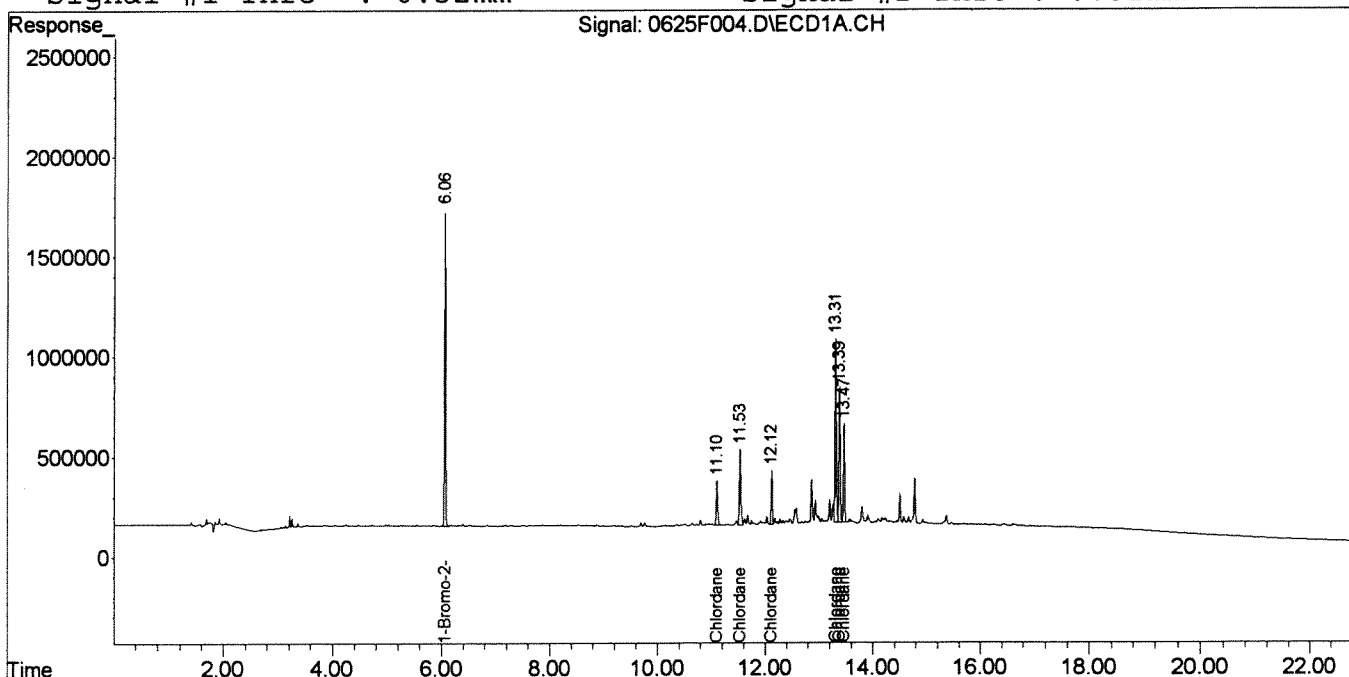
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
36) 1-Bromo-2-nitrob	6.06	5.48	2164916	799255	100.000	100.000
System Monitoring Compounds						
Target Compounds						
37) Chlordane	11.10	9.58	449343	158570	509.618	482.937
38) Chlordane {2}	11.53	9.93	763304	279054	518.471	533.547
39) Chlordane {3}	12.12	11.98	438161	587250	483.721	503.499
40) Chlordane {4}	13.31	12.03	1590824	347496	469.786	496.186
41) Chlordane {5}	13.39	12.09	1128575	192362	451.069	490.803
42) Chlordane {6}	13.47	12.13	807882	469356	444.830	493.129

Signal #1 : J:\GC23\DATA\062514\0625F004.D\ECD1A.CH Vial: 4
 Signal #2 : J:\GC23\DATA\062514\0625F004.D\ECD2B.CH
 Acq On : 25 Jun 2014 3:29 pm Operator: SMURRAY
 Sample : CHLOR @ 500ppb GCPS7-80B Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:18 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

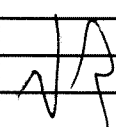
Data File: J:\GC23\DATA\062514\0625F005.D
Lab ID: KWG1406791-3
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 06/25/2014 15:59
Date Quantitated: 06/26/2014 12:19
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene	0	3664.166666	54656.66666	
	1-Bromo-2-nitrobenzene {2}	0	461.666666	37846.66666	
	1-Bromo-2-nitrobenzene {3}	0	2579.916666	30319.66666	

Primary Review: _____

Secondary Review: _____

Exception Report

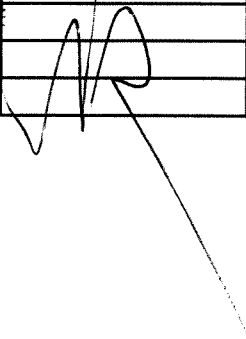
Data File: J:\GC23\DATA\062514\0625F005.D\0625F005C.D
Lab ID: KWG1406791-3
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 06/25/2014 15:59
Date Quantitated: 06/26/2014 12:19
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene	0	1685.333333	6741.333333	
	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F005.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F005.D\0625F005c.d	Vial:	5
Acqu Date:	06/25/2014 15:59	Quant Date:	06/26/2014 12:19
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	MARINE SEDIMENT
Prod Code:	8081B PEST OC	Collect Date:		Receive Date:	06/26/2014

Analysis Lot:	KWG1406791	Prep Lot:		Report Group:	
Analysis Method:	8081B	Prep Method:			
Prep Ref:		Prep Date:			

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene			0d	0d	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.06 ^{+0.14}	5.48 ^{+0.09}	2132090	792882	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	0.00		0d	0d		0.0000	NR
				%Recovery =		NA	NA	Limits = 20-106
1	Decachlorobiphenyl	0.00		0d	0d		0.0000	NR
				%Recovery =		NA	NA	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-BHC			0d	0d	0.0000	0.0000			NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000			NR
1	beta-BHC			0d	0d	0.0000	0.0000			NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000			NR
1	delta-BHC			0d	0d	0.0000	0.0000			NR
1	Heptachlor			0d	0d	0.0000	0.0000			NR
1	Aldrin			0d	0d	0.0000	0.0000			NR
1	Isodrin			0d	0d	0.0000	0.0000			NR
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000			NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F005.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F005.D\0625F005c.d	Vial:	5
Acqu Date:	06/25/2014 15:59	Quant Date:	06/26/2014 12:19
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-3	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000			NR
1	Endosulfan I			0d	0d	0.0000	0.0000			NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000			NR
1	Dieldrin			0d	0d	0.0000	0.0000			NR
1	4,4'-DDE			0d	0d	0.0000	0.0000			NR
1	Endrin			0d	0d	0.0000	0.0000			NR
1	Endosulfan II			0d	0d	0.0000	0.0000			NR
1	4,4'-DDD			0d	0d	0.0000	0.0000			NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000			NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000			NR
1	4,4'-DDT			0d	0d	0.0000	0.0000			NR
1	Endrin Ketone			0d	0d	0.0000	0.0000			NR
1	Methoxychlor			0d	0d	0.0000	0.0000			NR
1	2,4'-DDE			0d	0d	0.0000	0.0000			NR
1	2,4'-DDD			0d	0d	0.0000	0.0000			NR
1	2,4'-DDT			0d	0d	0.0000	0.0000			NR
	Toxaphene			0	0	0.0000	0.0000			NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000			
2	Toxaphene {2}			0d	0d	0.0000	0.0000			
2	Toxaphene {3}			0d	0d	0.0000	0.0000			
2	Toxaphene {4}			0d	0d	0.0000	0.0000			
2	Toxaphene {5}			0d	0d	0.0000	0.0000			
2	Toxaphene {6}			0d	0d	0.0000	0.0000			
	Chlordane			0	0	0.0000	0.0000			NR
3	Chlordane {1}			0d	0d	0.0000	0.0000			
3	Chlordane {2}			0d	0d	0.0000	0.0000			
3	Chlordane {3}			0d	0d	0.0000	0.0000			
3	Chlordane {4}			0d	0d	0.0000	0.0000			
3	Chlordane {5}			0d	0d	0.0000	0.0000			
3	Chlordane {6}			0d	0d	0.0000	0.0000			
4	Chlorpyrifos	12.00	10.89	628319	255945	54.64	62.97			
4	Oxychlordane	12.75	11.39	1028284	426165	45.15	47.01			
4	cis-Nonachlor	14.50	13.22	1260195	544255	46.13	47.67			
4	trans-Nonachlor	13.47	12.02	1231303	524247	45.21	47.19			
4	Mirex	16.85	15.37	930964	399677	45.67	49.60			
4	Hexachloroethane	4.04	3.44	2370514	905632	47.07	49.28			
4	Hexachlorobutadiene	4.81	3.99	1725362	691158	44.79	46.93			
4	Alachlor		8.94	0	2508	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F005.D\ECD1A.CH Vial: 5
 Signal #2 : J:\GC23\DATA\062514\0625F005.D\ECD2B.CH
 Acq On : 25 Jun 2014 3:59 pm Operator: SMURRAY
 Sample : MISC @ 50ppb GCPS7-80F Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 25 16:45:03 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

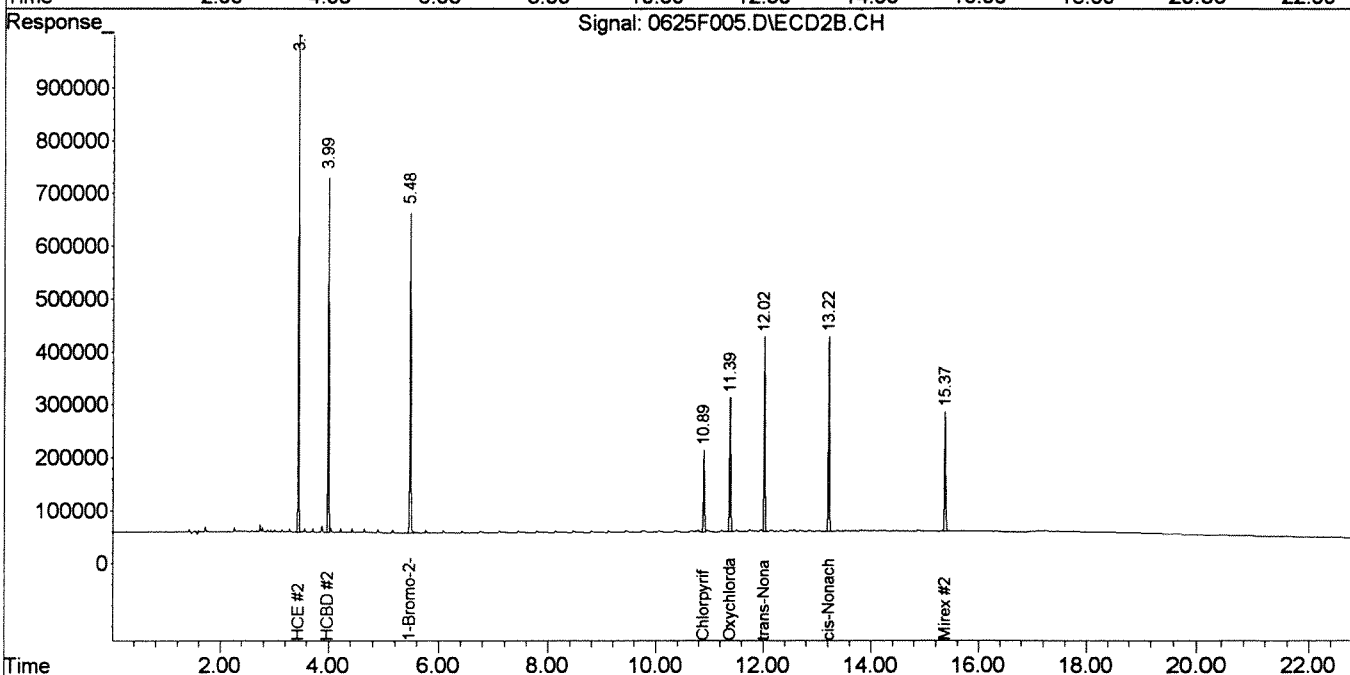
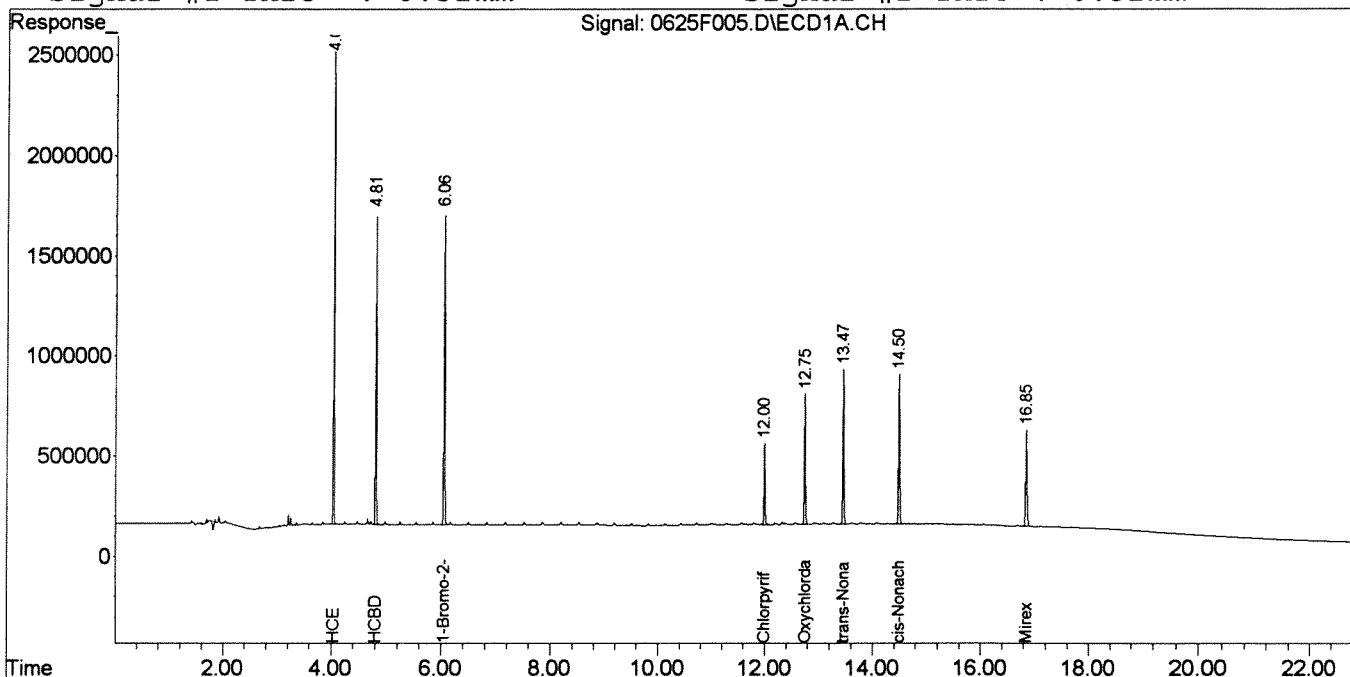
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
43) 1-Bromo-2-nitrob	6.06	5.48	2132090	792882	100.000	100.000
System Monitoring Compounds						
Target Compounds						
44) Chlorpyrifos	12.00	10.89	628319	255945	54.637	62.968
45) Oxychlorane	12.75	11.39	1028284	426165	45.152	47.005
46) cis-Nonachlor	14.50	13.22	1260195	544255	46.133	47.672
47) trans-Nonachlor	13.47	12.02	1231303	524247	45.205	47.185
48) Mirex	16.85	15.37	930964	399677	45.668	49.603
49) HCE	4.04	3.44	2370514	905632	47.069	49.275
50) HCB	4.81	3.99	1725362	691158	44.786	46.928

Signal #1 : J:\GC23\DATA\062514\0625F005.D\ECD1A.CH Vial: 5
 Signal #2 : J:\GC23\DATA\062514\0625F005.D\ECD2B.CH
 Acq On : 25 Jun 2014 3:59 pm Operator: SMURRAY
 Sample : MISC @ 50ppb GCPS7-80F Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:19 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

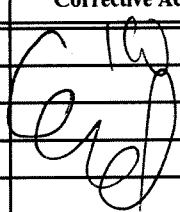

Data File: J:\GC23\DATA\062514\0625F006.D
Lab ID: KWG1406791-1
Run Type: IB
Matrix: MARINE SEDIMENT

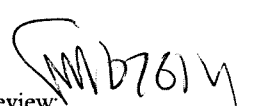
Date Acquired: 06/25/2014 16:29
Date Quantitated: 06/26/2014 12:20
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

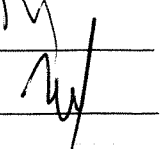
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.06	NA	NA	
	Endosulfan I	13.43	NA	NA	
	1-Bromo-2-nitrobenzene {2}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.06	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.06	NA	NA	
	trans-Nonachlor	13.43	NA	NA	
Enviroquant/Stealth Calibration Check	Hexachlorobenzene	Calc	S-7314.963	I-0	

Primary Review: 

Secondary Review: 

Exception Report

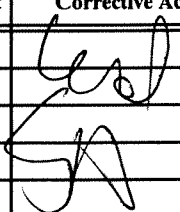
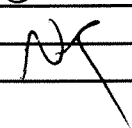
Data File: J:\GC23\DATA\062514\0625F006.D\0625F006C.D
Lab ID: KWG1406791-1
Run Type: IB
Matrix: MARINE SEDIMENT

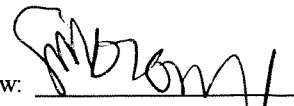
Date Acquired: 06/25/2014 16:29
Date Quantitated: 06/26/2014 12:20
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

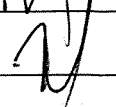
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.48	NA	NA	
	2,4'-DDT	13.19	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.48	NA	NA	
	1-Bromo-2-nitrobenzene {3}	5.48	NA	NA	
	1-Bromo-2-nitrobenzene {4}	5.48	NA	NA	
	cis-Nonachlor	13.19	NA	NA	
Enviroquant/Stealth Calibration Check	Chlorpyrifos	Calc	S-892.449	I-0	

Primary Review: 

Secondary Review: 

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F006.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F006.D\0625F006c.d	Vial:	6
Acqu Date:	06/25/2014 16:29	Quant Date:	06/26/2014 12:20
Run Type:	IB	Dilution:	1.0
Lab ID:	KWG1406791-1	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	MARINE SEDIMENT
Prod Code:	8081B PEST OC	Collect Date:		Receive Date:	06/26/2014

Analysis Lot:	KWG1406791	Prep Lot:		Report Group:	
Analysis Method:	8081B	Prep Method:			
Prep Ref:		Prep Date:			

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.06	c 5.48	c 1513092	556611	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.06	c 5.48	c 1513092	556611	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.06	c 5.48	c 1513092	556611	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.06	c 5.48	c 1513092	556611	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	0.00		0	0		0.0000	NA
						%Recovery =	NA	NA
						Limits =	20-106	
1	Decachlorobiphenyl	0.00		0	0	1.0000	0.0000	NA
						%Recovery =	NA	NA
						Limits =	19-127	

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-BHC		8.46	0	1714	0.0000	0.1940			
1	Hexachlorobenzene			3572	0	0.0000	0.0000			
1	beta-BHC		9.74	0	1739	0.0000	0.4270			
1	gamma-BHC (Lindane)			0	0	0.0000	0.0000			
1	delta-BHC		10.34	0	1531	0.0000	0.1910			
1	Heptachlor	11.56		3575	0	0.1710	0.0000			
1	Aldrin			0	0	0.0000	0.0000			
1	Isodrin	12.56		4806	0	0.2700	0.0000			
1	Heptachlor Epoxide	12.78		5922	0	0.3020	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F006.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F006.D\0625F006c.d	Vial:	6
Acqu Date:	06/25/2014 16:29	Quant Date:	06/26/2014 12:20
Run Type:	IB	Dilution:	1.0
Lab ID:	KWG1406791-1	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane	13.26	11.94	3134	1808	0.1580	0.2310			
1	Endosulfan I	13.43	c	4231	0	0.2390	0.0000			
1	alpha-Chlordane		12.13	0	1882	0.0000	0.2450			
1	Dieldrin		12.67	0	1354	0.0000	0.1770			
1	4,4'-DDE	13.64	12.49	1353m	1431	0.0710	0.1890			
1	Endrin			0	0	0.0000	0.0000			
1	Endosulfan II	14.67	13.53	2527	891	0.1540	0.1420			
1	4,4'-DDD		13.36	0	2362	0.0000	0.3990			
1	Endrin Aldehyde			0	0	0.0000	0.0000			
1	Endosulfan Sulfate			0	0	0.0000	0.0000			
1	4,4'-DDT		13.83	0	1549	0.0000	0.2760			
1	Endrin Ketone			0	0	0.0000	0.0000			
1	Methoxychlor			0d	0	0.0000	0.0000			
1	2,4'-DDE	13.09		5313	0	0.4200	0.0000			
1	2,4'-DDD	13.78		4042	0	0.3510	0.0000			
1	2,4'-DDT	14.27	13.19	c	1963	1832	0.1640	0.3850		
	Toxaphene			0	0	24.73	0.0000			
2	Toxaphene {1}	14.58		3232	0	32.33	0.0000			
2	Toxaphene {2}	14.67		2527	0	17.14	0.0000			
2	Toxaphene {3}			0	0	0.0000	0.0000			
2	Toxaphene {4}			0	0	0.0000	0.0000			
2	Toxaphene {5}			0d	0	0.0000	0.0000			
2	Toxaphene {6}			0	0	0.0000	0.0000			
	Chlordane			0	0	2.33	2.84			
3	Chlordane {1}			0d	0	0.0000	0.0000			
3	Chlordane {2}			0d	0	0.0000	0.0000			
3	Chlordane {3}			0	0d	0.0000	0.0000			
3	Chlordane {4}	13.26		3134	0	1.32	0.0000			
3	Chlordane {5}			0	0d	0.0000	0.0000			
3	Chlordane {6}	13.43	12.13	4231	1882	3.33	2.84			
4	Chlorpyrifos	11.99		6121	1270	0.7500	0.0000			
4	Oxychlordane	12.74	11.36	3369	1242	0.2080	0.1950			
4	cis-Nonachlor		13.19	c	0	1832	0.0000	0.2290		
4	trans-Nonachlor	13.43	c	4231	0	0.2190	0.0000			
4	Mirex			0	0	0.0000	0.0000			
4	Hexachloroethane	4.04	3.42	2556	941	0.0720	0.0730			
4	Hexachlorobutadiene		4.03	0	1127	0.0000	0.1090			
4	Alachlor			0	0	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F006.D\ECD1A.CH Vial: 6
 Signal #2 : J:\GC23\DATA\062514\0625F006.D\ECD2B.CH
 Acq On : 25 Jun 2014 4:29 pm Operator: SMURRAY
 Sample : IB Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:19:22 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.06	5.48	1513092	556611	100.000	100.000
29) 1-Bromo-2-nitrob	6.06	5.48	1513092	556611	100.000	100.000
36) 1-Bromo-2-nitrob	6.06	5.48	1513092	556611	100.000	100.000
43) 1-Bromo-2-nitrob	6.06	5.48	1513092	556611	100.000	100.000

System Monitoring Compounds

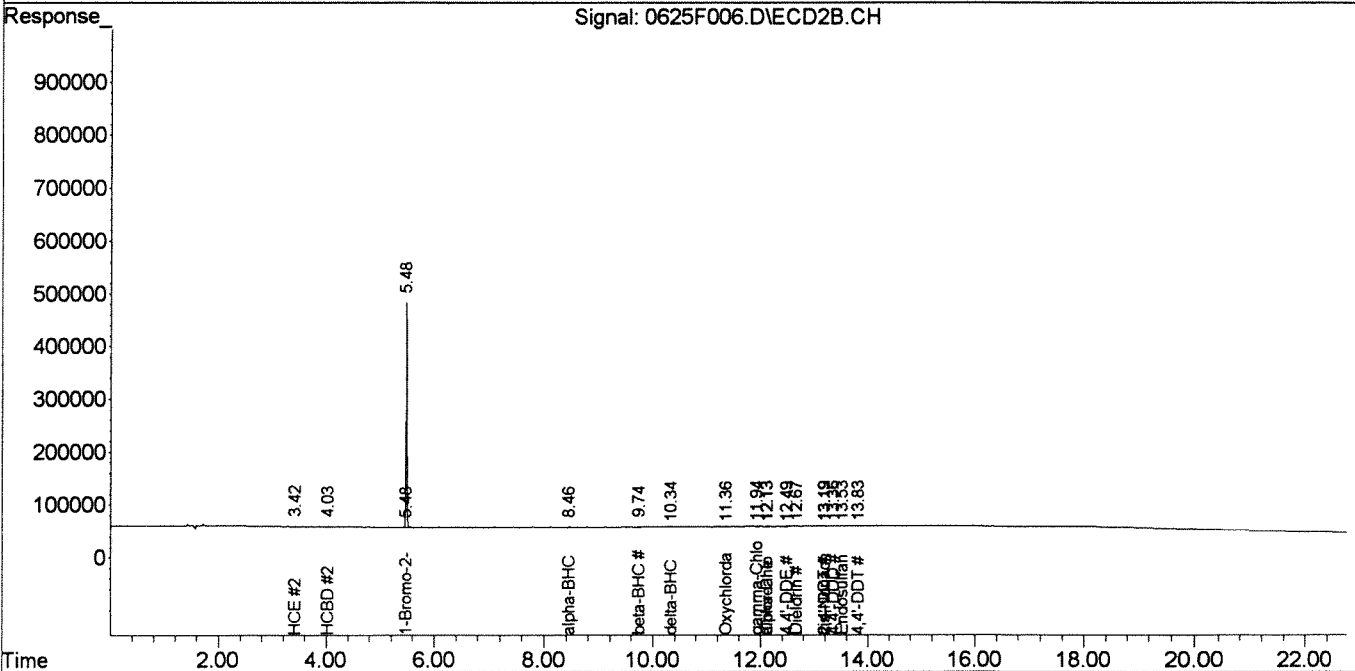
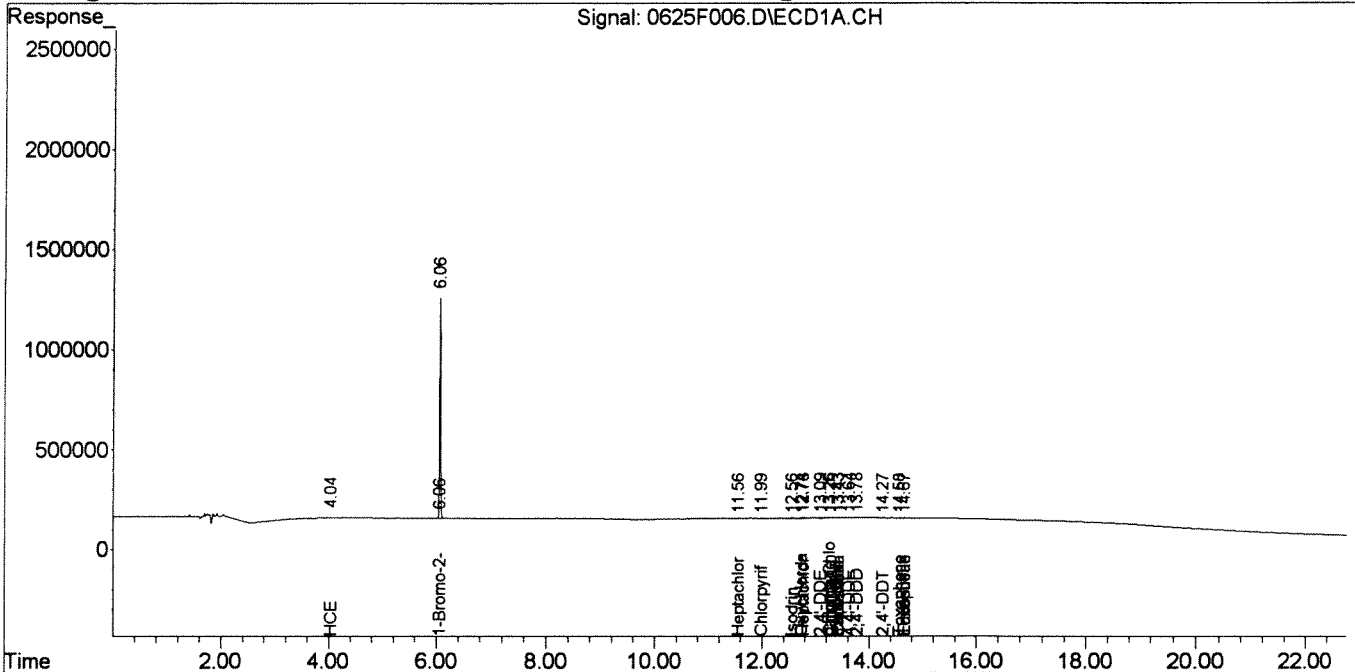
Target Compounds

3)	alpha-BHC	0.00	8.46f	0	1714	N.D.	0.194 #
5)	beta-BHC	0.00	9.74f	0	1739	N.D.	0.427 #
7)	delta-BHC	0.00	10.34f	0	1531	N.D.	0.191 #
8)	Heptachlor	11.56f	0.00	3575	0	0.171	N.D. #
10)	Isodrin	12.56f	0.00	4806	0	0.270	N.D. #
11)	Heptachlor Epoxi	12.78	0.00	5922	0	0.302	N.D. #
12)	gamma-Chlordane	13.26f	11.94f	3134	1808	0.158	0.231 #
13)	Endosulfan I	13.43	0.00	4231	0	0.239	N.D. #
14)	alpha-Chlordane	0.00	12.13	0	1882	N.D.	0.245 #
15)	Dieldrin	0.00	12.67f	0	1354	N.D.	0.177 #
16)	4,4'-DDE	13.64f	12.49	1353	1431	0.071m	0.189 #
18)	Endosulfan II	14.67	13.53	2527	891	0.154	0.142
19)	4,4'-DDD	0.00	13.36	0	2362	N.D.	0.399 #
22)	4,4'-DDT	0.00	13.83f	0	1549	N.D.	0.276 #
25)	2,4'-DDE	13.09	0.00	5313	0	0.420	N.D. #
26)	2,4'-DDD	13.78f	0.00	4042	0	0.351	N.D. #
27)	2,4'-DDT	14.27f	13.19	1963	1832	0.164	0.385 #
30)	Toxaphene	14.58	0.00	3232	0	32.329	N.D. #
31)	Toxaphene {2}	14.67	0.00	2527	0	17.140	N.D. #
40)	Chlordane {4}	13.26f	0.00	3134	0	1.324	N.D. #
42)	Chlordane {6}	13.43f	12.13	4231	1882	3.333	2.839
45)	Oxychlordane	12.74	11.36	3369	1242	0.208	0.195
46)	cis-Nonachlor	0.00	13.19f	0	1832	N.D.	0.229 #
47)	trans-Nonachlor	13.43f	0.00	4231	0	0.219	N.D. #
49)	HCE	4.04	3.42	2556	941	0.072	0.073
50)	HCBD	0.00	4.03f	0	1127	N.D.	0.109 #

Signal #1 : J:\GC23\DATA\062514\0625F006.D\ECD1A.CH Vial: 6
 Signal #2 : J:\GC23\DATA\062514\0625F006.D\ECD2B.CH
 Acq On : 25 Jun 2014 4:29 pm Operator: SMURRAY
 Sample : IB Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:20 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

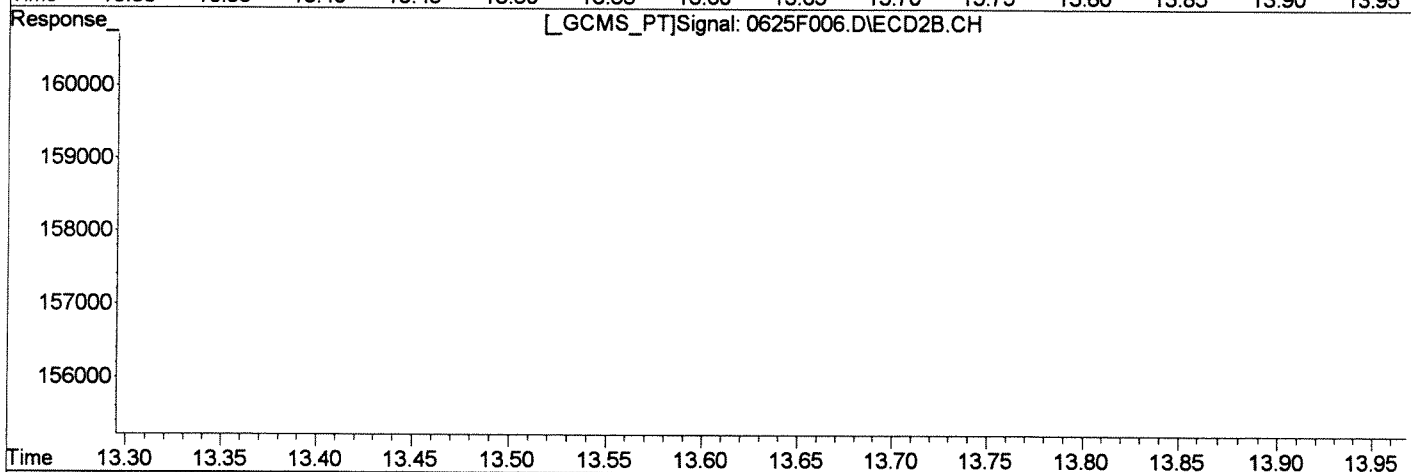
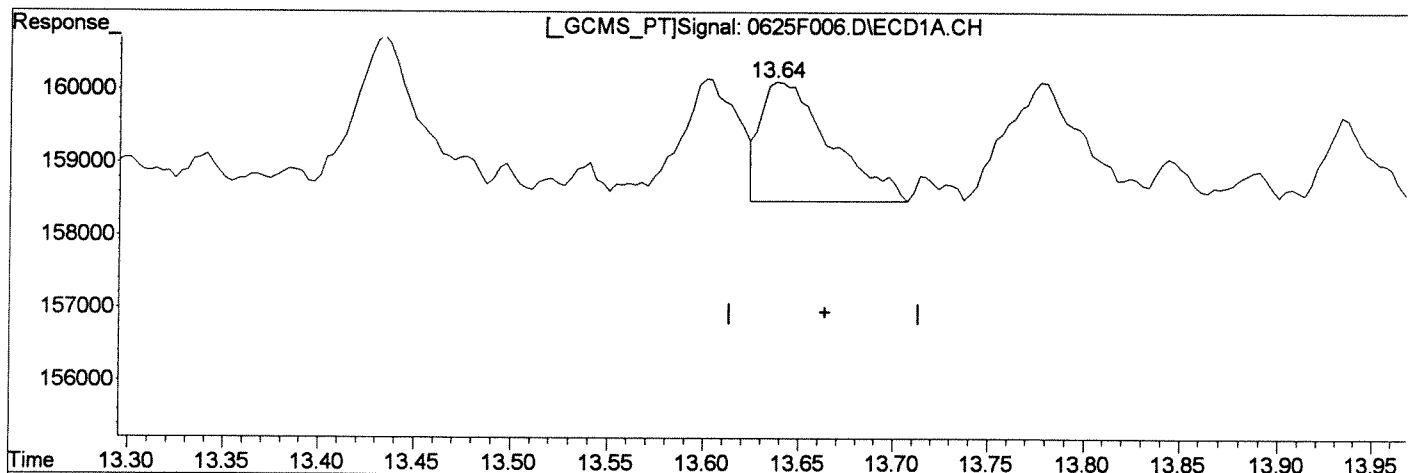
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F006.D\ECD1A.CH Vial: 6
Signal #2 : J:\GC23\DATA\062514\0625F006.D\ECD2B.CH
Acq On : 25 Jun 2014 4:29 pm Operator: SMURRAY
Sample : IB Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F006.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
(16) 4,4'-DDE	0.219	4181
(16) 4,4'-DDE #2	0.189	1431

Manual Integration:
Before
06/26/14

(+) = Expected Retention Time

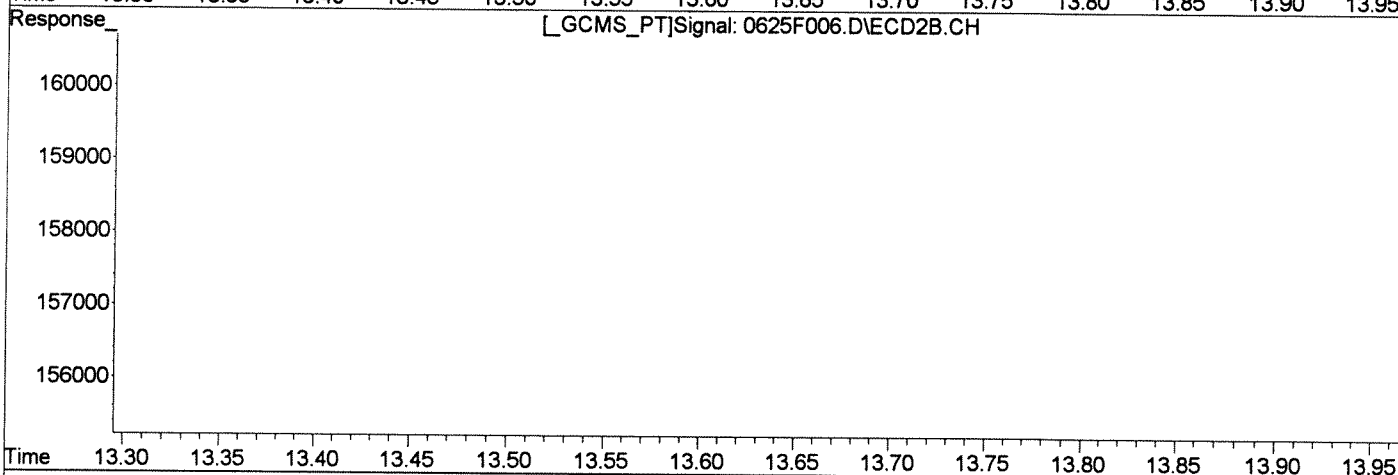
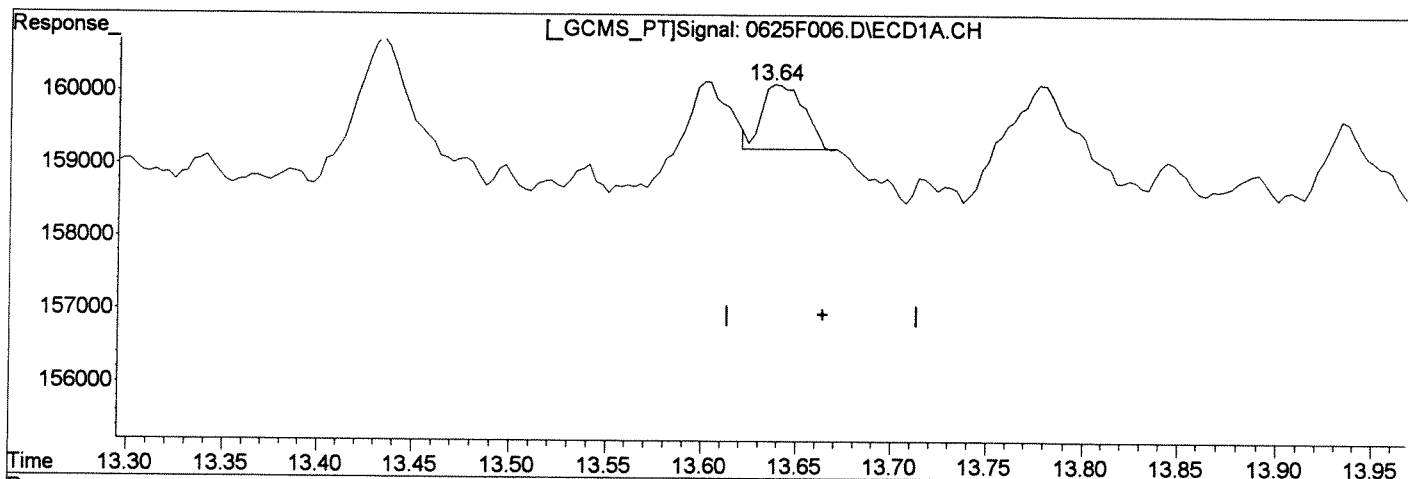
0625F006.D GC23-031714-8081.M

Thu Jun 26 12:19:42 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F006.D\ECD1A.CH Vial: 6
Signal #2 : J:\GC23\DATA\062514\0625F006.D\ECD2B.CH
Acq On : 25 Jun 2014 4:29 pm Operator: SMURRAY
Sample : IB Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:19 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F006.D\ECD1A.CH

(16) 4,4'-DDE	Manual Integration:
13.64min 0.071ug/L m	After
response 1353	Baseline/Shoulder
	06/26/14
(16) 4,4'-DDE #2	
12.49min 0.189ug/L	
response 1431	

(+) = Expected Retention Time
0625F006.D GC23-031714-8081.M

Thu Jun 26 12:19:44 2014

Exception Report


Data File: J:\GC23\DATA\062514\0625F023.D
Lab ID: KWG1406791-5
RunType: PEM
Matrix: MARINE SEDIMENT

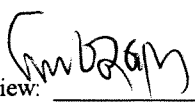
Date Acquired: 06/26/2014 00:53
Date Quantitated: 06/26/2014 12:20
Batch ID: KWG1406791
Analysis Method: 8081B
ListJoinID: LJ10168

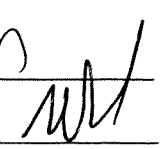
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Pesticide Breakdown	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	

Primary Review: 

Secondary Review: 

Exception Report

Data File: J:\GC23\DATA\062514\0625F023.D\0625F023C.D
Lab ID: KWG1406791-5
RunType: PEM
Matrix: MARINE SEDIMENT

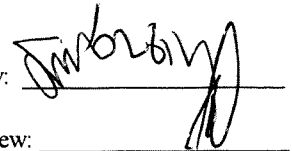
Date Acquired: 06/26/2014 00:53
Date Quantitated: 06/26/2014 12:20
Batch ID: KWG1406791
Analysis Method: 8081B
ListJoinID: LJ10168

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Pesticide Breakdown	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____



Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F023.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F023.D\0625F023c.d	Vial:	1
Acqu Date:	06/26/2014 00:53	Quant Date:	06/26/2014 12:20
Run Type:	PEM	Dilution:	1.0
Lab ID:	KWG1406791-5	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	MARINE SEDIMENT
Prod Code:	8081B PEST OC	Collect Date:		Receive Date:	06/26/2014

Analysis Lot:	KWG1406791	Prep Lot:		Report Group:	
Analysis Method:	8081B	Prep Method:			
Prep Ref:		Prep Date:			

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:	Organochlorine Pesticides	Report List ID:	LJ10168
MB Ref:		Method ID:	MJ1006
		Quant based on Report List	

BreakDown Results

Parameter Name	Resp #1	Respe #2	Percent Breakdown #1	Percent Breakdown #1
1-Bromo-2-nitrobenzene	2772342	892626		
4,4'-DDE	10727	4531		
Endrin	1466527	542447	8.3	10.9
4,4'-DDD	123036	71024		
Endrin Aldehyde	42096	19249		
4,4'-DDT	2709058	852301	4.7	8.1
Endrin Ketone	90248	47321		

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F023.D\ECD1A.CH Vial: 1
 Signal #2 : J:\GC23\DATA\062514\0625F023.D\ECD2B.CH
 Acq On : 26 Jun 2014 12:53 am Operator: SMURRAY
 Sample : PEM @50-100PPB GCPS7-81G Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:08 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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Internal Standards

1) i	1-Bromo-2-nitrob	6.05	5.47	2772342	892626	100.000	100.000
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System Monitoring Compounds

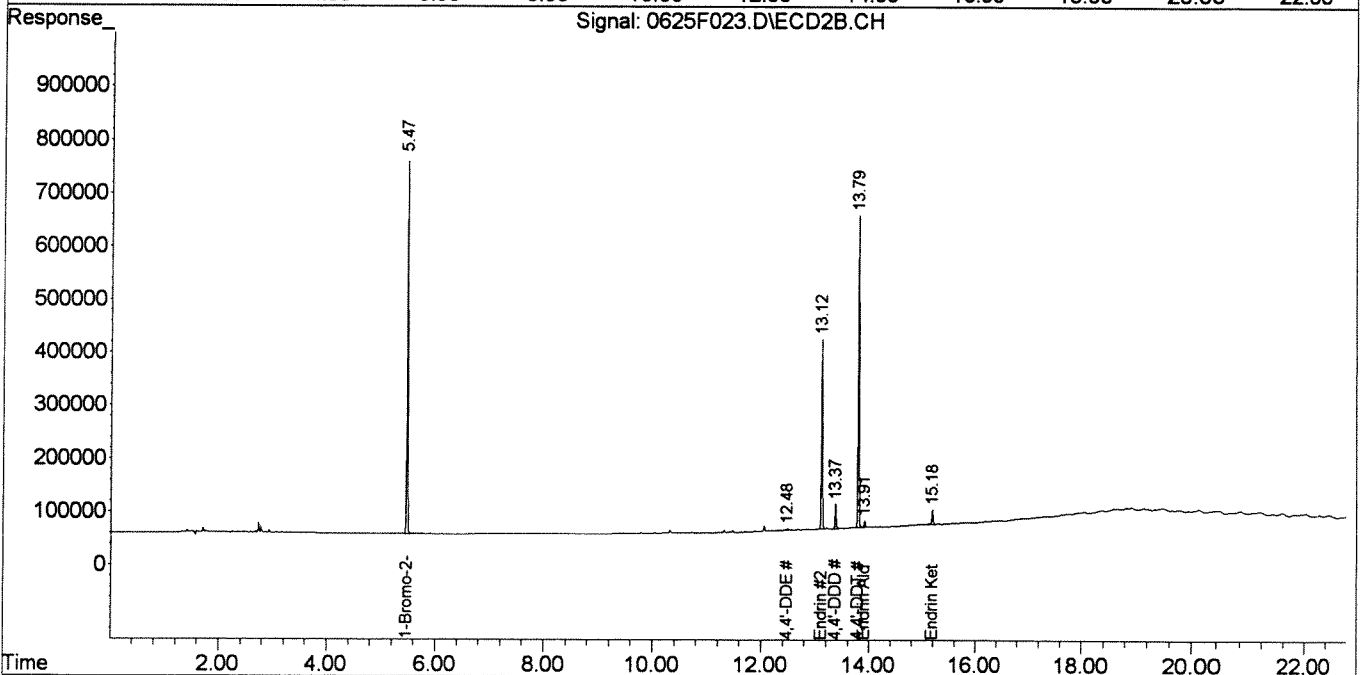
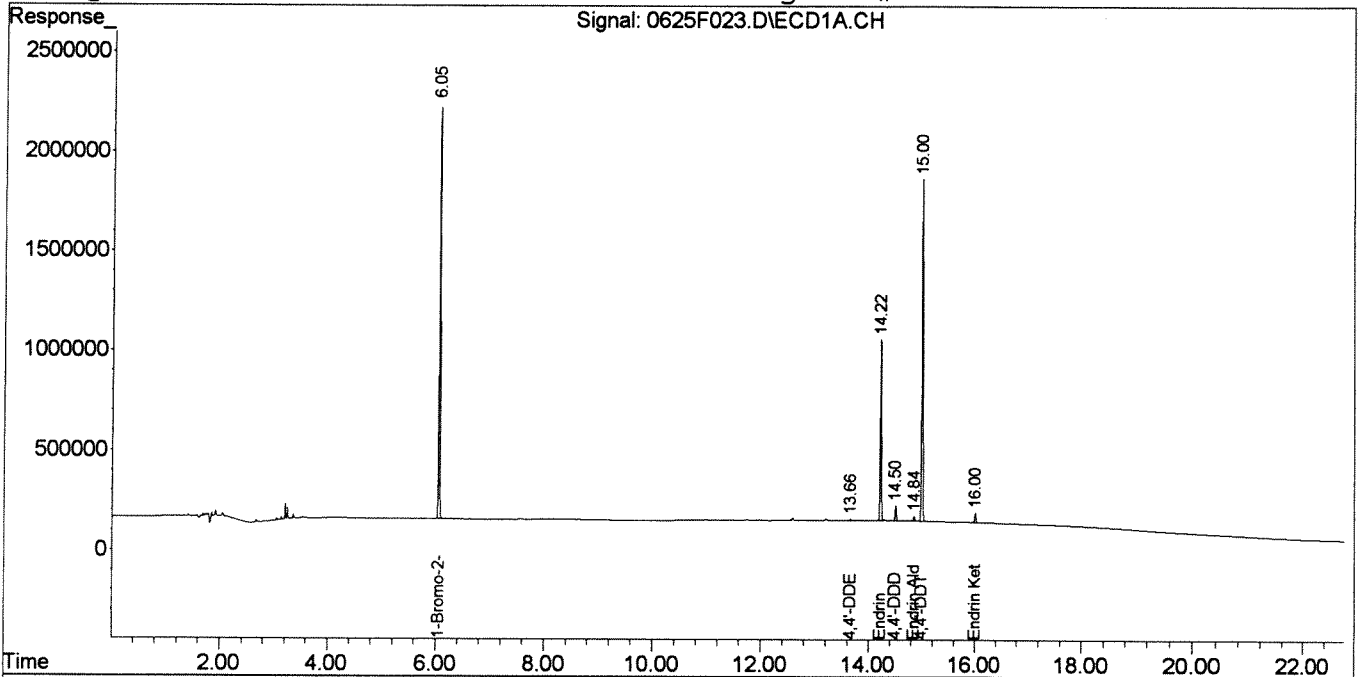
Target Compounds

16)	4,4'-DDE	13.66	12.48	10727	4531	0.307	0.372
17)	Endrin	14.22	13.12	1466527	542447	48.648	51.451
19)	4,4'-DDD	14.50	13.37	123036	71024	4.317	7.478 #
20)	Endrin Aldehyde	14.84	13.91	42096	19249	2.142	2.475
22)	4,4'-DDT	15.00	13.79	2709058	852301	106.919	94.742
23)	Endrin Ketone	16.00	15.18	90248	47321	2.694	4.083 #

Signal #1 : J:\GC23\DATA\062514\0625F023.D\ECD1A.CH Vial: 1
Signal #2 : J:\GC23\DATA\062514\0625F023.D\ECD2B.CH
Acq On : 26 Jun 2014 12:53 am Operator: SMURRAY
Sample : PEM @50-100PPB GCPS7-81G Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:20 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration
DataAcq Meth : PEST1UL.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

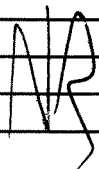
Data File: J:\GC23\DATA\062514\0625F024.D
Lab ID: KWG1406791-6
RunType: CCV
Matrix: MARINE SEDIMENT

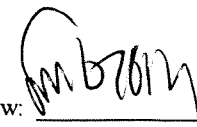
Date Acquired: 06/26/2014 01:23
Date Quantitated: 06/26/2014 12:21
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

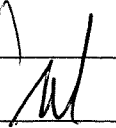
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	461.666666	37846.66666	
	1-Bromo-2-nitrobenzene {3}	0	2579.916666	30319.66666	
	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	

Primary Review: 

Secondary Review: 

Exception Report

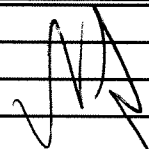
Data File: J:\GC23\DATA\062514\0625F024.D\0625F024C.D
Lab ID: KWG1406791-6
RunType: CCV
Matrix: MARINE SEDIMENT

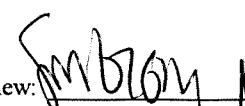
Date Acquired: 06/26/2014 01:23
Date Quantitated: 06/26/2014 12:21
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013


Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
	1-Bromo-2-nitrobenzene {4}	0	5189.083333	24756.33333	

Primary Review: 

Secondary Review: 

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F024.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F024.D\0625F024c.d	Vial:	2
Acqu Date:	06/26/2014 01:23	Quant Date:	06/26/2014 12:21
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-6	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	MARINE SEDIMENT
Prod Code:	8081B PEST OC	Collect Date:		Receive Date:	06/26/2014

Analysis Lot:	KWG1406791	Prep Lot:		Report Group:	
Analysis Method:	8081B	Prep Method:			
Prep Ref:		Prep Date:			

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.07 ^{-0.09}	5.49 ^{-0.07}	1887404	625469	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt	
1	Tetrachloro-m-xylene	8.82	7.27	1070849	453168	47.29	54.90	NA	
						%Recovery =	NA	NA	Limits = 20-106
1	Decachlorobiphenyl	18.52	17.08	926789m	352731m	45.58	50.42	NA	
						%Recovery =	NA	NA	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	alpha-BHC	9.66	8.51	1435593	548978	49.31	55.21			
1	Hexachlorobenzene	9.82	8.29	1272810	538046	49.33	56.36			
1	beta-BHC	10.94	9.79	639977	247206	53.11	54.03			
1	gamma-BHC (Lindane)	10.34	9.26	1330874	491987	49.66	53.61			
1	delta-BHC	11.44	10.32	1323652	510429	50.82	56.64			
1	Heptachlor	11.54	9.94	1216593	441487	46.76	51.53			
1	Aldrin	12.08	10.53	1214803	518376	45.81	54.74			
1	Isodrin	12.61	11.33	1003522	411613	45.22	52.40			
1	Heptachlor Epoxide	12.80	11.61	1131192	452860	46.23	53.78			

U: Undetected at or above MDL
 F: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F024.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F024.D\0625F024c.d	Vial:	2
Acqu Date:	06/26/2014 01:23	Quant Date:	06/26/2014 12:21
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-6	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane	13.32	11.99	1138009	475774	45.98	54.08			
1	Endosulfan I	13.44	12.20	1037234	417508	47.01	54.84			
1	alpha-Chlordane	13.39	12.13	1118987	454499	45.83	52.74			
1	Dieldrin	13.86	12.65	1116247	457140	47.23	53.23			
1	4,4'-DDE	13.67	12.49	1106094	491869	46.55	57.70			
1	Endrin	14.23	13.13	947140	365273	46.15	49.45			
1	Endosulfan II	14.68	13.56	996463	387917	48.84	54.89			
1	4,4'-DDD	14.51	13.38	957235	369476	49.34	55.52			
1	Endrin Aldehyde	14.86	13.92	805505	322409	60.20	59.16			
1	Endosulfan Sulfate	15.33	14.25	948029	372695	52.46	56.56			
1	4,4'-DDT	15.01	13.80	853553	280341	49.48	44.47			
1	Endrin Ketone	16.02	15.20	1225706	453817	53.75	55.88			
1	Methoxychlor	15.76	14.91	466438	147164	50.96	45.72			
1	2,4'-DDE	13.09	12.02	711651	309762	45.12	56.03			
1	2,4'-DDD	13.82	12.80	660675	256551	46.01	50.93			
1	2,4'-DDT	14.32	13.22	712458	259741	47.63	48.54			
	Toxaphene			0	0	0.0000	0.0000			NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000			
2	Toxaphene {2}			0d	0d	0.0000	0.0000			
2	Toxaphene {3}			0d	0d	0.0000	0.0000			
2	Toxaphene {4}			0d	0d	0.0000	0.0000			
2	Toxaphene {5}			0d	0d	0.0000	0.0000			
2	Toxaphene {6}			0d	0d	0.0000	0.0000			
	Chlordane			0	0	0.0000	0.0000			NR
3	Chlordane {1}			0d	0d	0.0000	0.0000			
3	Chlordane {2}			0d	0d	0.0000	0.0000			
3	Chlordane {3}			0d	0d	0.0000	0.0000			
3	Chlordane {4}			0d	0d	0.0000	0.0000			
3	Chlordane {5}			0d	0d	0.0000	0.0000			
3	Chlordane {6}			0d	0d	0.0000	0.0000			
4	Chlorpyrifos			0d	0d	0.0000	0.0000			
4	Oxychlordane			0d	0d	0.0000	0.0000			NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000			NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000			NR
4	Mirex			0d	0d	0.0000	0.0000			NR
4	Hexachloroethane			0d	0d	0.0000	0.0000			NR
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000			NR
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F024.D\ECD1A.CH Vial: 2
 Signal #2 : J:\GC23\DATA\062514\0625F024.D\ECD2B.CH
 Acq On : 26 Jun 2014 1:23 am Operator: SMURRAY
 Sample : 81/24 @ 50ppb GCPS7-73G Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:10 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

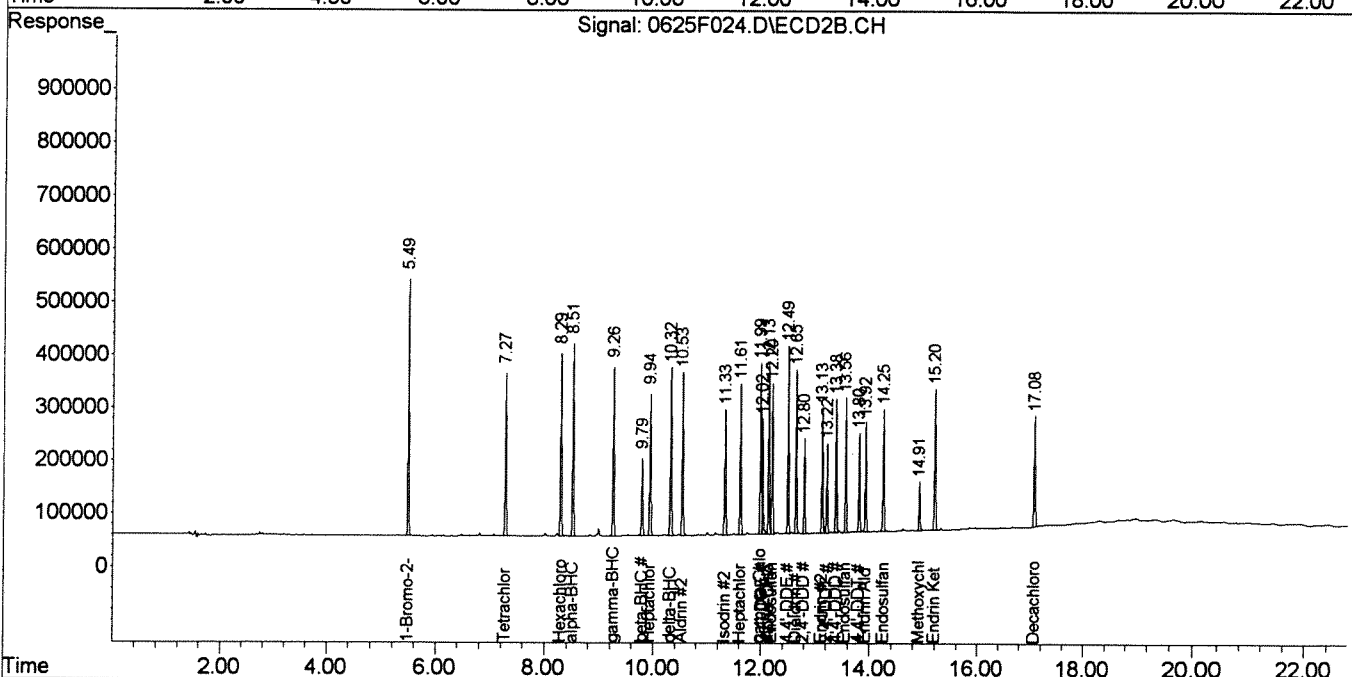
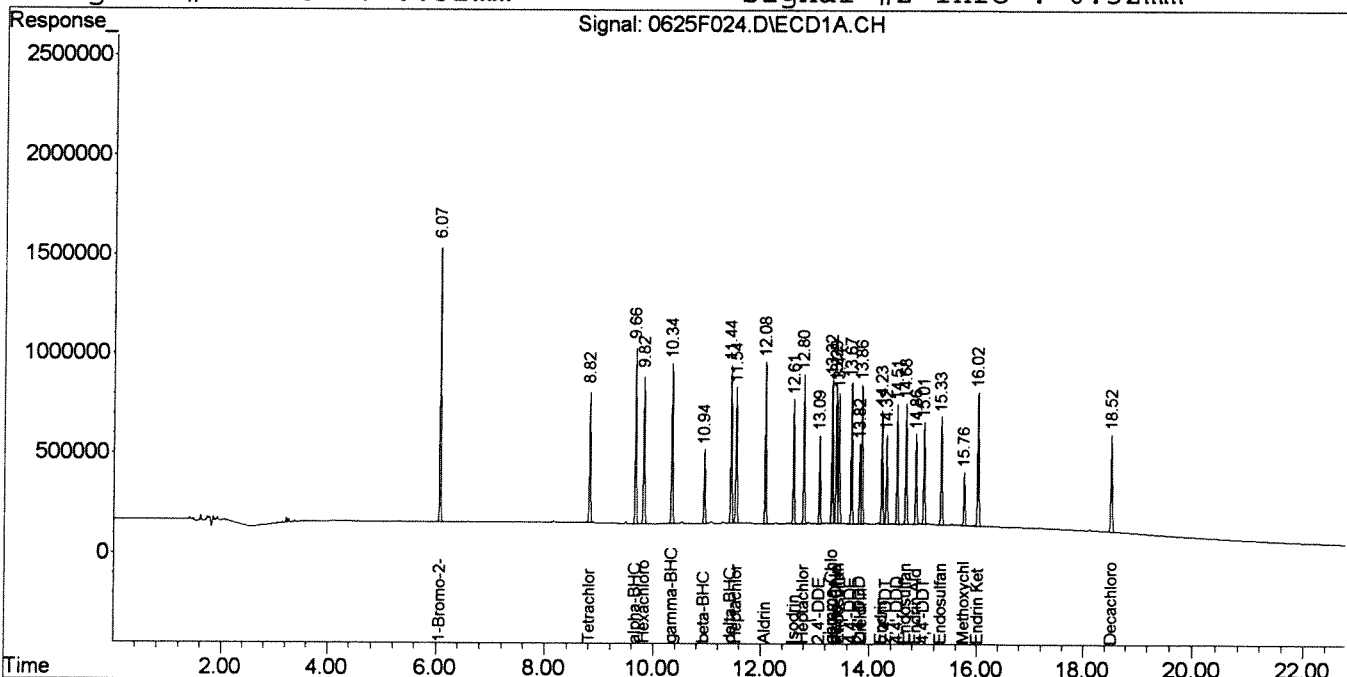
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
1) i 1-Bromo-2-nitrob	6.07	5.49	1887404	625469	100.000	100.000
System Monitoring Compounds						
2) s Tetrachloro-m-xy	8.82	7.27	1070849	453168	47.286	54.904
28) s Decachlorobiphen	18.52	17.08	926789	352731	45.584m	50.417m
Target Compounds						
3) alpha-BHC	9.66	8.51	1435593	548978	49.308	55.207
4) Hexachlorobenzen	9.82	8.29	1272810	538046	49.334	56.357
5) beta-BHC	10.94	9.79	639977	247206	53.109	54.026
6) gamma-BHC (Linda	10.34	9.26	1330874	491987	49.655	53.606
7) delta-BHC	11.44	10.32	1323652	510429	50.818	56.639
8) Heptachlor	11.54	9.94	1216593	441487	46.758	51.527
9) Aldrin	12.08	10.53	1214803	518376	45.809	54.741
10) Isodrin	12.61	11.33	1003522	411613	45.222	52.396
11) Heptachlor Epoxi	12.80	11.61	1131192	452860	46.226	53.777
12) gamma-Chlordane	13.32	11.99	1138009	475774	45.982	54.083
13) Endosulfan I	13.44	12.20	1037234	417508	47.006	54.836
14) alpha-Chlordane	13.39	12.13	1118987	454499	45.831	52.743
15) Dieldrin	13.86	12.65	1116247	457140	47.227	53.228
16) 4,4'-DDE	13.67	12.49	1106094	491869	46.546	57.702
17) Endrin	14.23	13.13	947140	365273	46.150	49.445
18) Endosulfan II	14.68	13.56	996463	387917	48.838	54.891
19) 4,4'-DDD	14.51	13.38	957235	369476	49.337	55.517
20) Endrin Aldehyde	14.86	13.92	805505	322409	60.196	59.161
21) Endosulfan Sulfa	15.33	14.25	948029	372695	52.456	56.560
22) 4,4'-DDT	15.01	13.80	853553	280341	49.482	44.473
23) Endrin Ketone	16.02	15.20	1225706	453817	53.747	55.882
24) Methoxychlor	15.76	14.91	466438	147164	50.964	45.721
25) 2,4'-DDE	13.09	12.02	711651	309762	45.121	56.025
26) 2,4'-DDD	13.82	12.80	660675	256551	46.012	50.933
27) 2,4'-DDT	14.32	13.22	712458	259741	47.632	48.542

Signal #1 : J:\GC23\DATA\062514\0625F024.D\ECD1A.CH Vial: 2
 Signal #2 : J:\GC23\DATA\062514\0625F024.D\ECD2B.CH
 Acq On : 26 Jun 2014 1:23 am Operator: SMURRAY
 Sample : 81/24 @ 50ppb GCPS7-73G Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:21 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

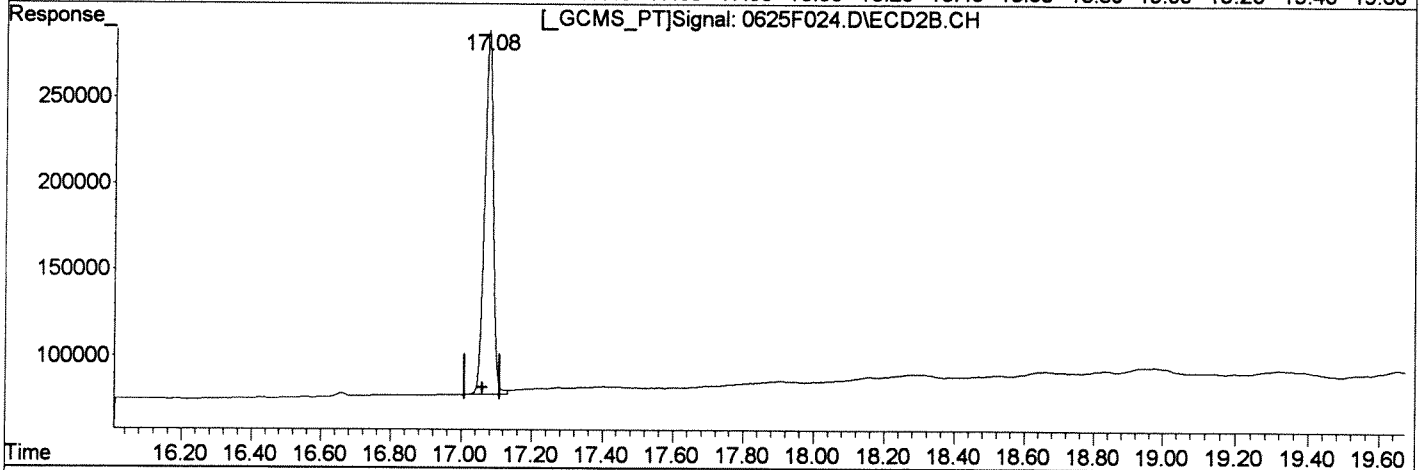
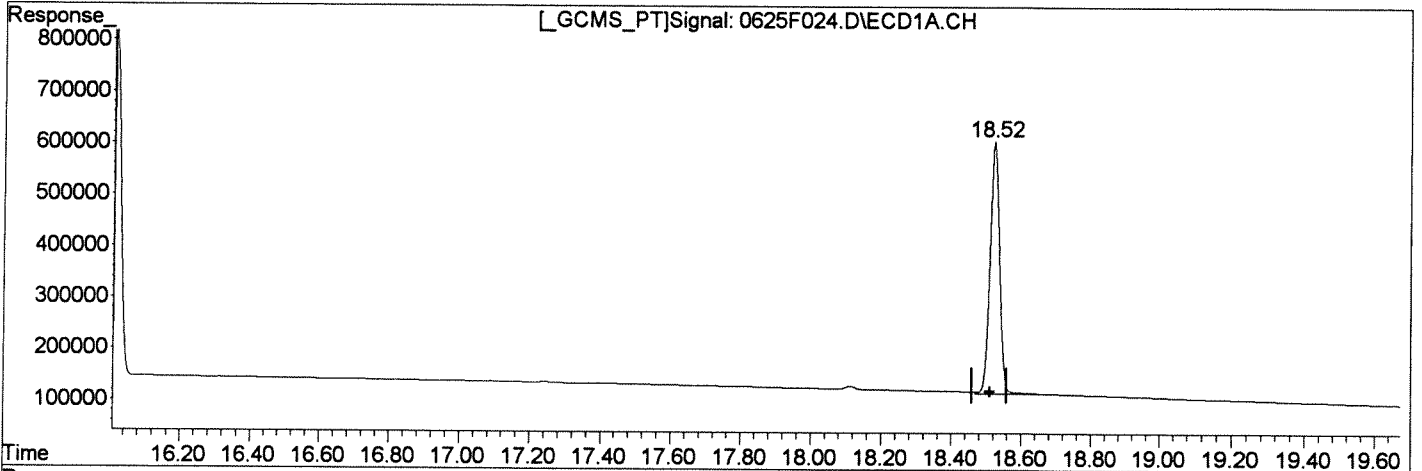
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F024.D\ECD1A.CH Vial: 2
Signal #2 : J:\GC23\DATA\062514\0625F024.D\ECD2B.CH
Acq On : 26 Jun 2014 1:23 am Operator: SMURRAY
Sample : 81/24 @ 50ppb GCPS7-73G Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F024.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
18.52	47.019	954597
17.08	51.526	360490

Manual Integration:
Before
06/26/14

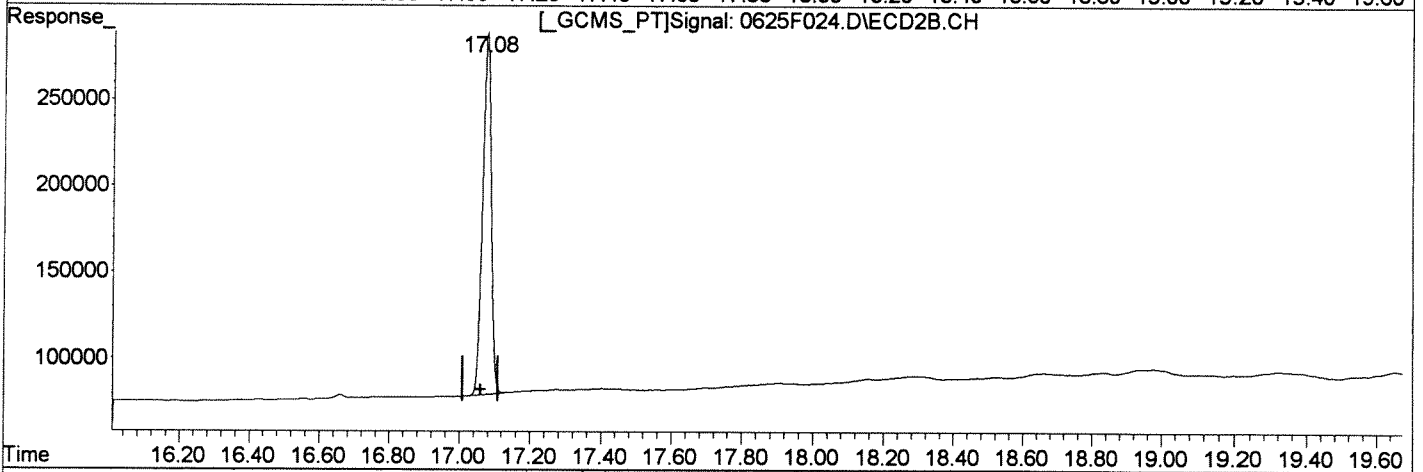
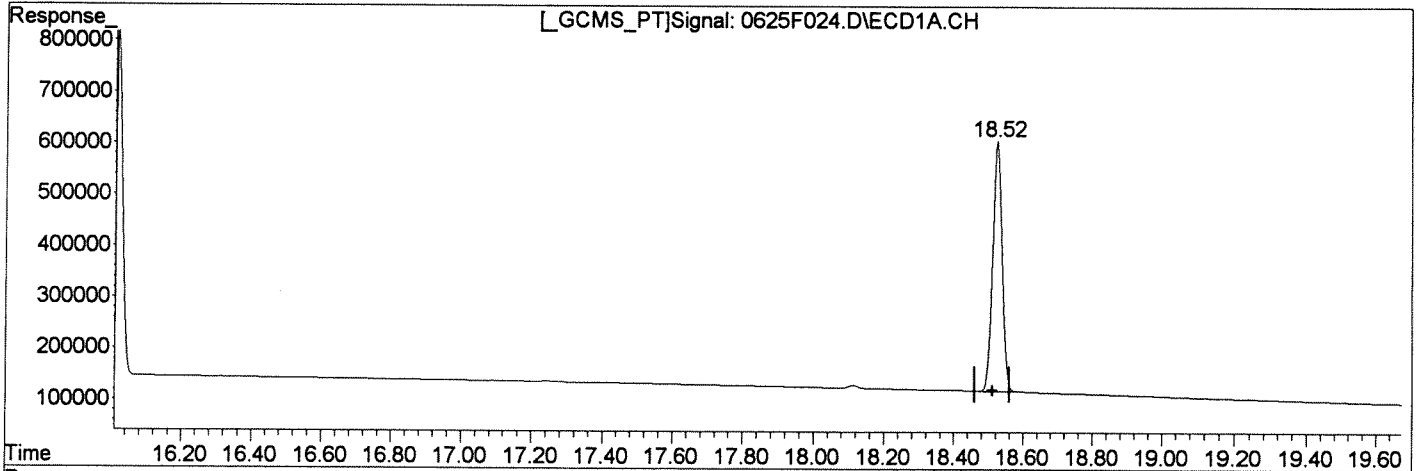
(+) = Expected Retention Time
0625F024.D GC23-031714-8081.M

Thu Jun 26 12:21:08 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F024.D\ECD1A.CH Vial: 2
Signal #2 : J:\GC23\DATA\062514\0625F024.D\ECD2B.CH
Acq On : 26 Jun 2014 1:23 am Operator: SMURRAY
Sample : 81/24 @ 50ppb GCPS7-73G Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F024.D\ECD1A.CH	
(28) Decachlorobiphenyl (s)	Manual Integration:
18.52min 45.584ug/L m	After
response 926789	Baseline/Shoulder
	06/26/14
(28) Decachlorobiphenyl #2 (s)	
17.08min 50.417ug/L m	
response 352731	

(+) = Expected Retention Time
0625F024.D GC23-031714-8081.M

Thu Jun 26 12:21:17 2014

Exception Report

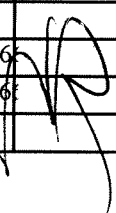
Data File: J:\GC23\DATA\062514\0625F025.D
Lab ID: KWG1406791-6
RunType: CCV
Matrix: MARINE SEDIMENT

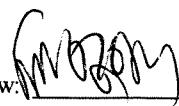
Date Acquired: 06/26/2014 01:53
Date Quantitated: 06/26/2014 12:22
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013


Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene	0	3664.166666	64656.66666	
	1-Bromo-2-nitrobenzene {3}	0	2579.916666	30319.66666	
	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	

Primary Review: 

Secondary Review: 

Exception Report

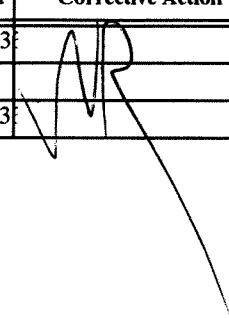
Data File: J:\GC23\DATA\062514\0625F025.D\0625F025C.D
Lab ID: KWG1406791-6
RunType: CCV
Matrix: MARINE SEDIMENT

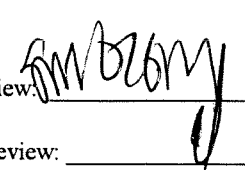
Date Acquired: 06/26/2014 01:53
Date Quantitated: 06/26/2014 12:22
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene	0	685.333333	6741.333333	
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	
	1-Bromo-2-nitrobenzene {4}	0	5189.083333	24756.333333	

Primary Review: 
 Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F025.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F025.D\0625F025c.d	Vial:	3
Acqu Date:	06/26/2014 01:53	Quant Date:	06/26/2014 12:22
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-6	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	MARINE SEDIMENT
Prod Code:	8081B PEST OC	Collect Date:		Receive Date:	06/26/2014

Analysis Lot:	KWG1406791	Prep Lot:		Report Group:	
Analysis Method:	8081B	Prep Method:			
Prep Ref:		Prep Date:			

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1014
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene			0d	0d	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.06 ^{+0.14}	5.47 ^{+0.08}	2273480	766936	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	0.00		0d	0d		0.0000	NR
				%Recovery =		NA	NA	Limits = 20-116
1	Decachlorobiphenyl	0.00		0d	0d		0.0000	NR
				%Recovery =		NA	NA	Limits = 22-130

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units:				Rpt
						ug/L #1	ug/L #2	ug/Kg #1	ug/Kg #2	
1	alpha-BHC			0d	0d	0.0000	0.0000			NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000			NR
1	beta-BHC			0d	0d	0.0000	0.0000			NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000			NR
1	delta-BHC			0d	0d	0.0000	0.0000			NR
1	Heptachlor			0d	0d	0.0000	0.0000			NR
1	Aldrin			0d	0d	0.0000	0.0000			NR
1	Isodrin			0d	0d	0.0000	0.0000			NR
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000			NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F025.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F025.D\0625F025c.d	Vial:	3
Acqu Date:	06/26/2014 01:53	Quant Date:	06/26/2014 12:22
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-6	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units:

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/Kg #1	ug/Kg #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000			NR
1	Endosulfan I			0d	0d	0.0000	0.0000			NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000			NR
1	Dieldrin			0d	0d	0.0000	0.0000			NR
1	4,4'-DDE			0d	0d	0.0000	0.0000			NR
1	Endrin			0d	0d	0.0000	0.0000			NR
1	Endosulfan II			0d	0d	0.0000	0.0000			NR
1	4,4'-DDD			0d	0d	0.0000	0.0000			NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000			NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000			NR
1	4,4'-DDT			0d	0d	0.0000	0.0000			NR
1	Endrin Ketone			0d	0d	0.0000	0.0000			NR
1	Methoxychlor			0d	0d	0.0000	0.0000			NR
1	2,4'-DDE			0d	0d	0.0000	0.0000			NR
1	2,4'-DDD			0d	0d	0.0000	0.0000			NR
1	2,4'-DDT			0d	0d	0.0000	0.0000			NR
	Toxaphene			0	0	1,022	1,093			
2	Toxaphene {1}	14.60	13.60	147587m	160888m	982.53	1,078			
2	Toxaphene {2}	14.65	13.66	210915m	59936m	952.09	1,019			
2	Toxaphene {3}	14.78	13.93	500133m	93524m	963.98	1,179			
2	Toxaphene {4}	14.84	14.28	323010m	94396m	978.02	979.25			
2	Toxaphene {5}	15.19	14.67	345332m	192668m	1,025	1,073			
2	Toxaphene {6}	16.07	14.87	549253m	160604m	1,232	1,228			
	Chlordane			0	0	0.0000	0.0000			NR
3	Chlordane {1}			0d	0d	0.0000	0.0000			
3	Chlordane {2}			0d	0d	0.0000	0.0000			
3	Chlordane {3}			0d	0d	0.0000	0.0000			
3	Chlordane {4}			0d	0d	0.0000	0.0000			
3	Chlordane {5}			0d	0d	0.0000	0.0000			
3	Chlordane {6}			0d	0d	0.0000	0.0000			
4	Chlorpyrifos			0d	0d	0.0000	0.0000			
4	Oxychlordane			0d	0d	0.0000	0.0000			NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000			NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000			NR
4	Mirex			0d	0d	0.0000	0.0000			NR
4	Hexachloroethane			0d	0d	0.0000	0.0000			NR
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000			NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
 Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
 Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:12 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

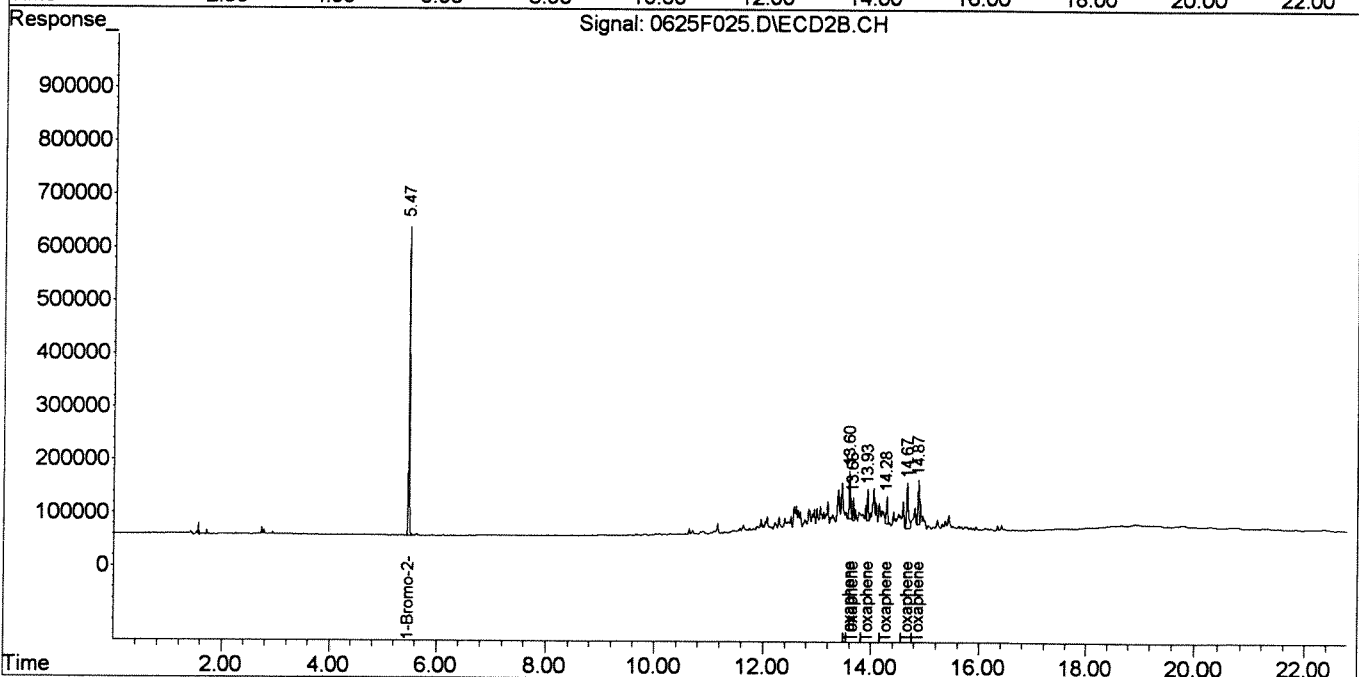
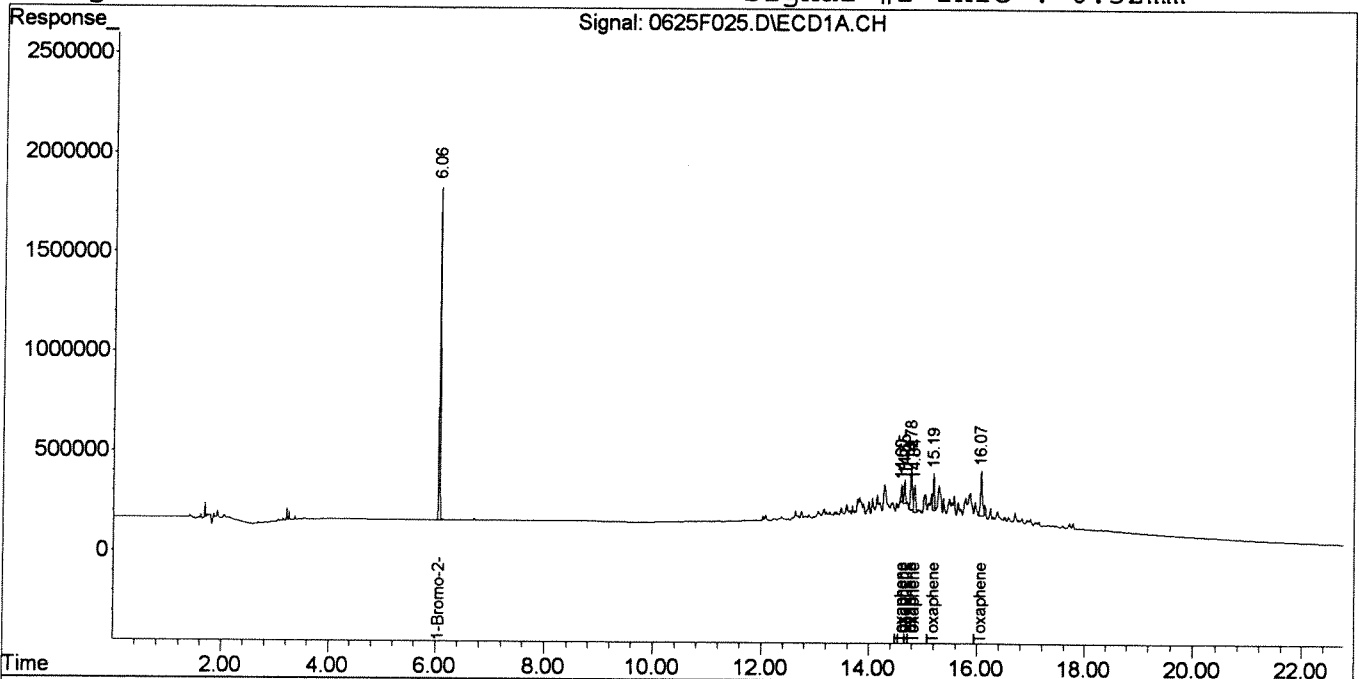
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
29) 1-Bromo-2-nitrob	6.06	5.47	2273480	766936	100.000	100.000
System Monitoring Compounds						
Target Compounds						
30) Toxaphene	14.60	13.60	147587	160888	982.532m	1078.242m
31) Toxaphene {2}	14.65	13.66	210915	59936	952.088m	1019.137m
32) Toxaphene {3}	14.78	13.93	500133	93524	963.984m	1178.799m
33) Toxaphene {4}	14.84	14.28	323010	94396	978.018m	979.246m
34) Toxaphene {5}	15.19	14.67	345332	192668	1025.252m	1073.031m
35) Toxaphene {6}	16.07	14.87	549253	160604	1232.354m	1227.537m

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
 Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
 Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
 Sample : TOX @ 1000ppb GPCS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:22 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

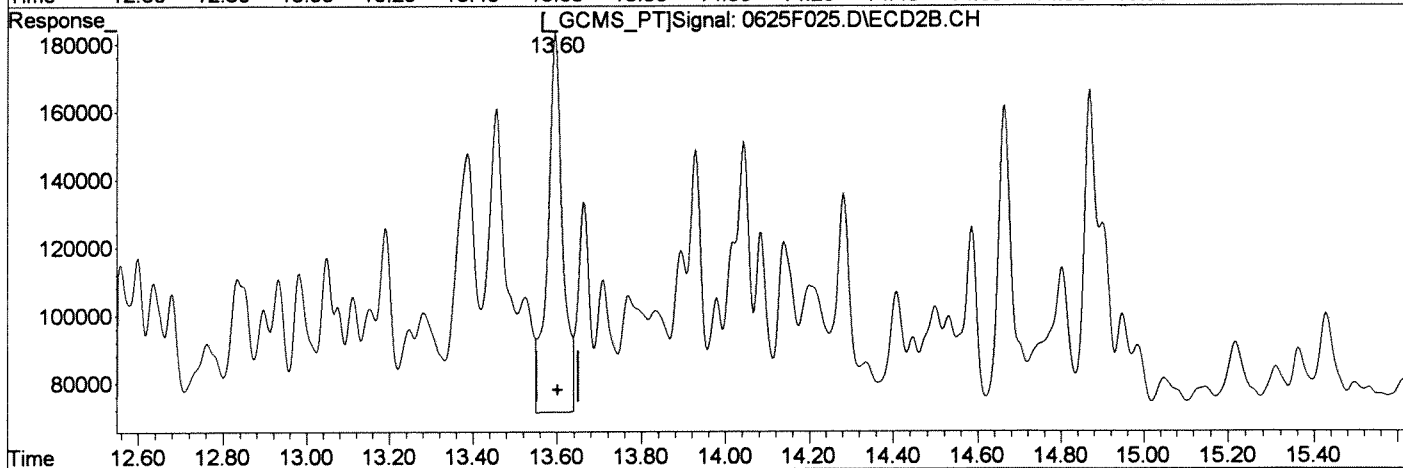
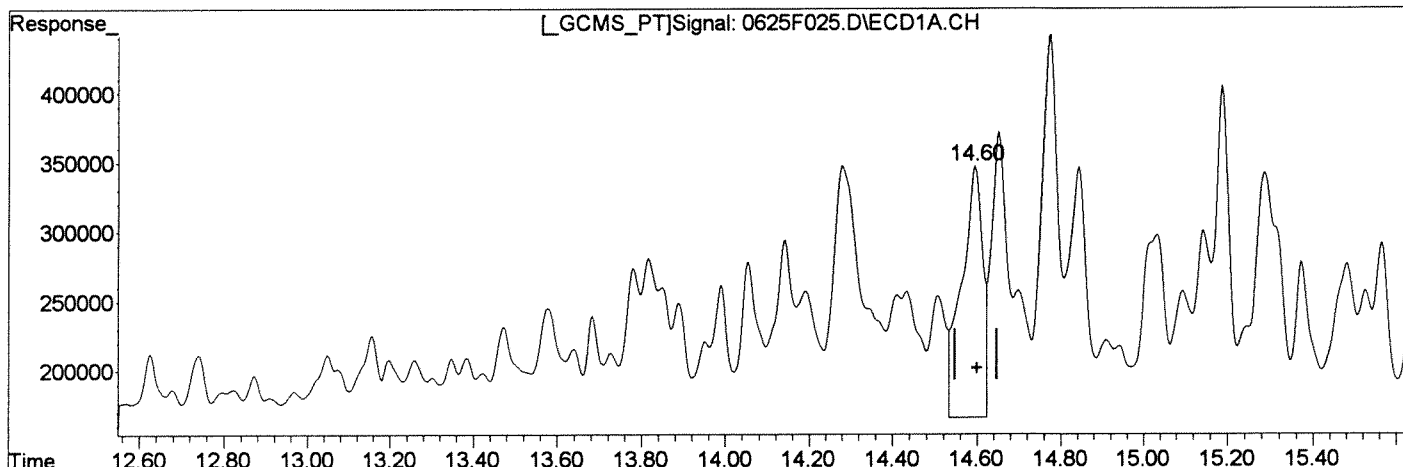
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
14.60	4211.407	632599
13.60	1856.203	276970

Manual Integration:
Before
06/26/14

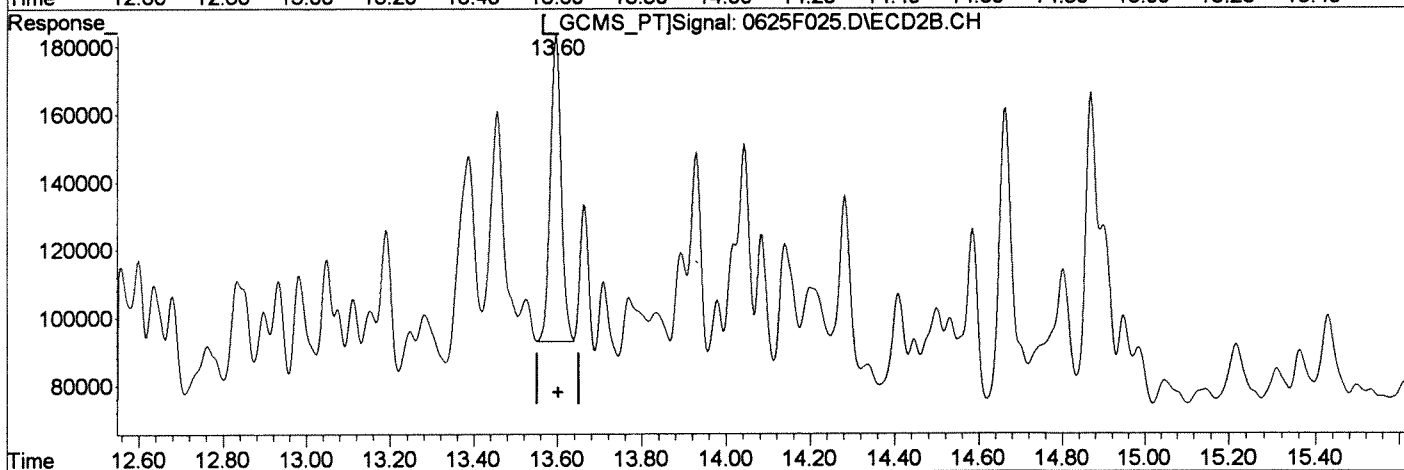
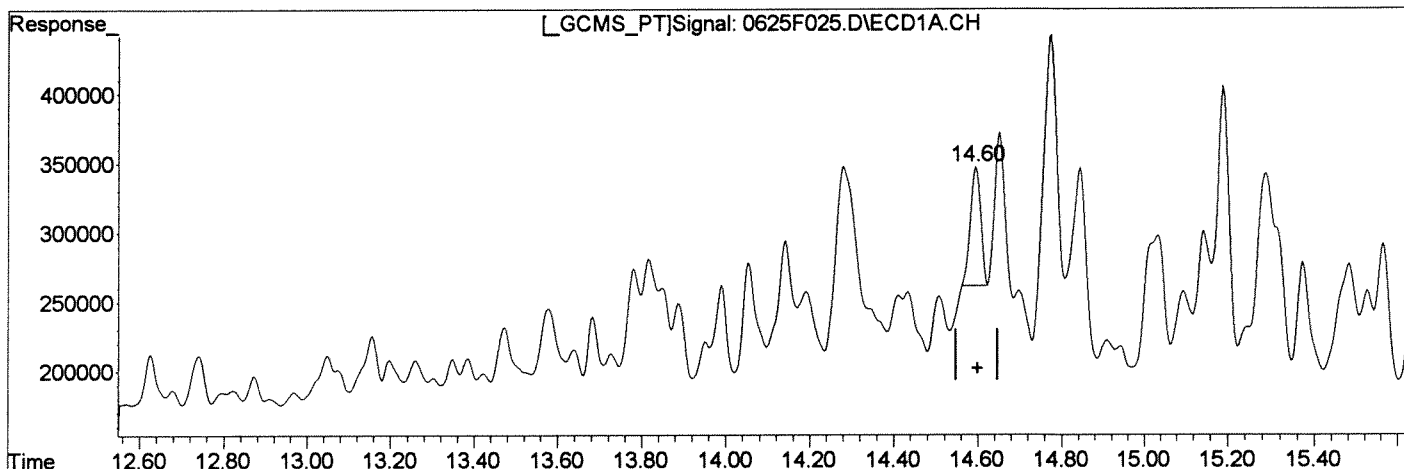
(+) = Expected Retention Time
0625F025.D GC23-031714-8081.M

Thu Jun 26 12:21:34 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH

(30) Toxaphene	Manual Integration:
14.60min 982.532ug/L m	After
response 147587	Baseline/Shoulder
	06/26/14
(30) Toxaphene #2	
13.60min 1078.242ug/L m	
response 160888	

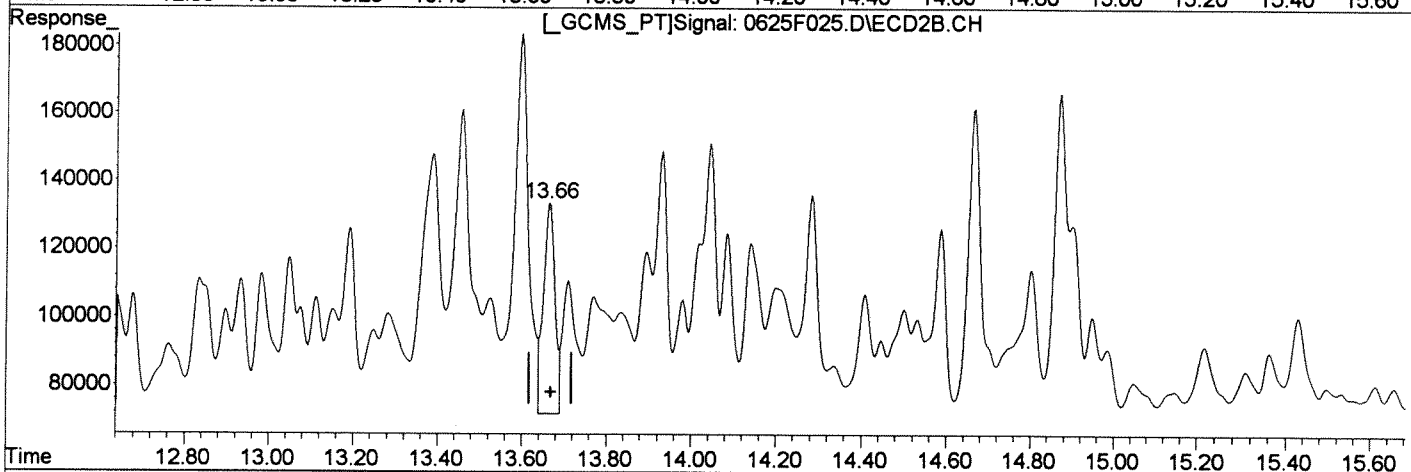
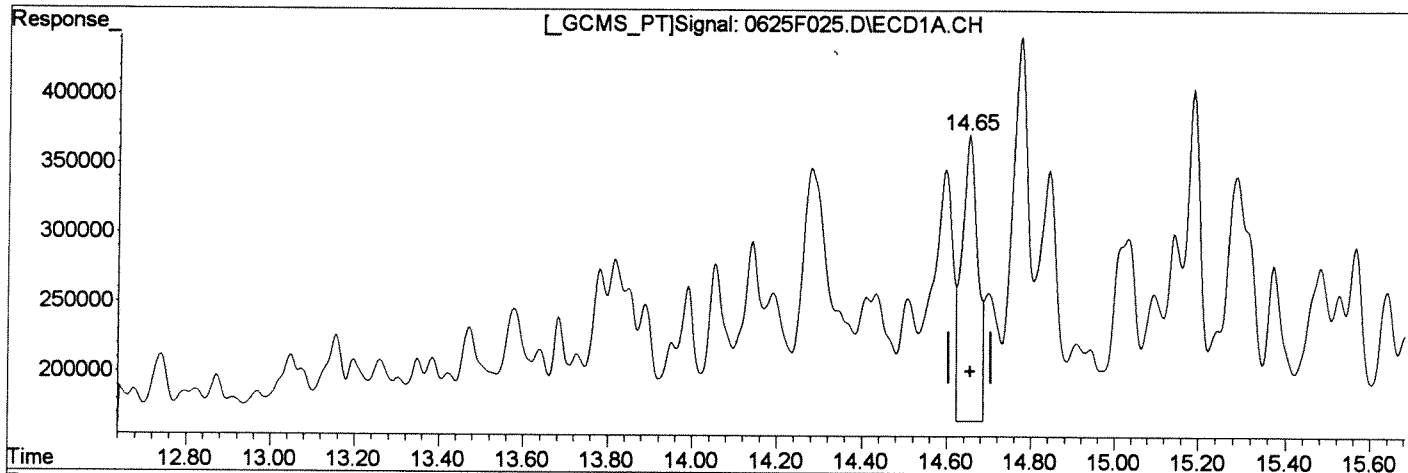
(+) = Expected Retention Time
0625F025.D GC23-031714-8081.M

Thu Jun 26 12:21:44 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH

(31) Toxaphene {2}	Manual Integration:
14.65min 2419.333ug/L	Before
response 535952	06/26/14
(31) Toxaphene {2} #2	
13.66min 1966.825ug/L	
response 115670	

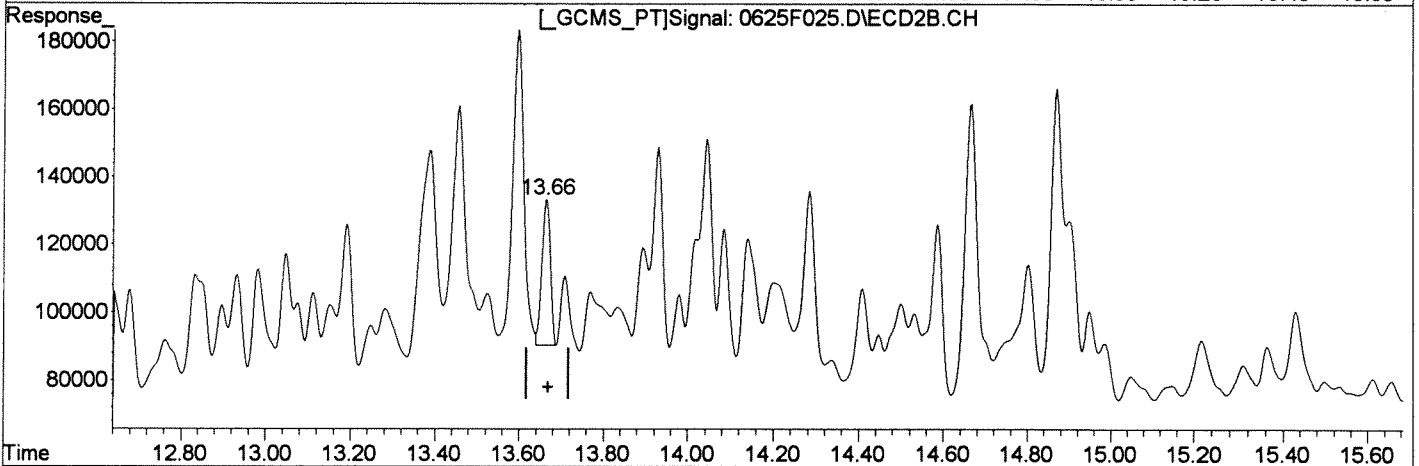
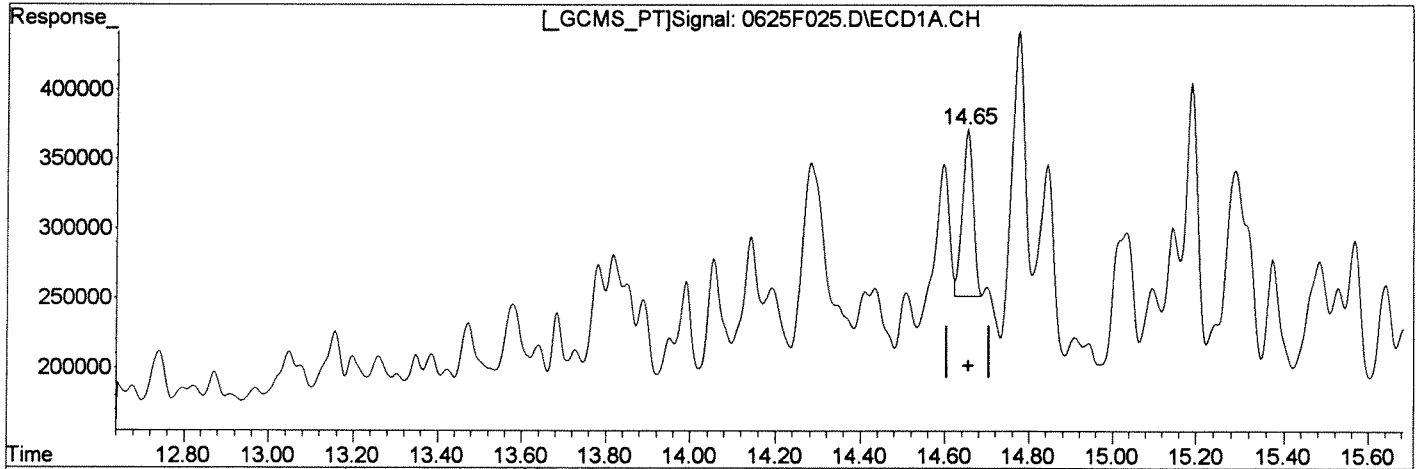
(+) = Expected Retention Time
0625F025.D GC23-031714-8081.M

Thu Jun 26 12:21:46 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
 Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
 Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH

(31) Toxaphene {2}	Manual Integration:
14.65min 952.088ug/L m	After
response 210915	Baseline/Shoulder
	06/26/14
(31) Toxaphene {2} #2	
13.66min 1019.137ug/L m	
response 59936	

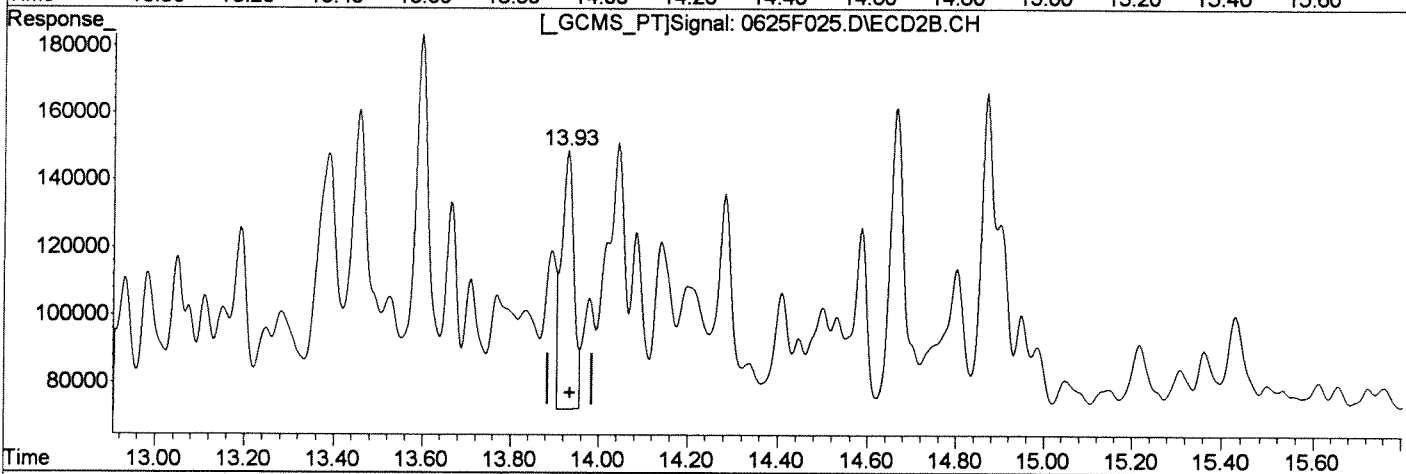
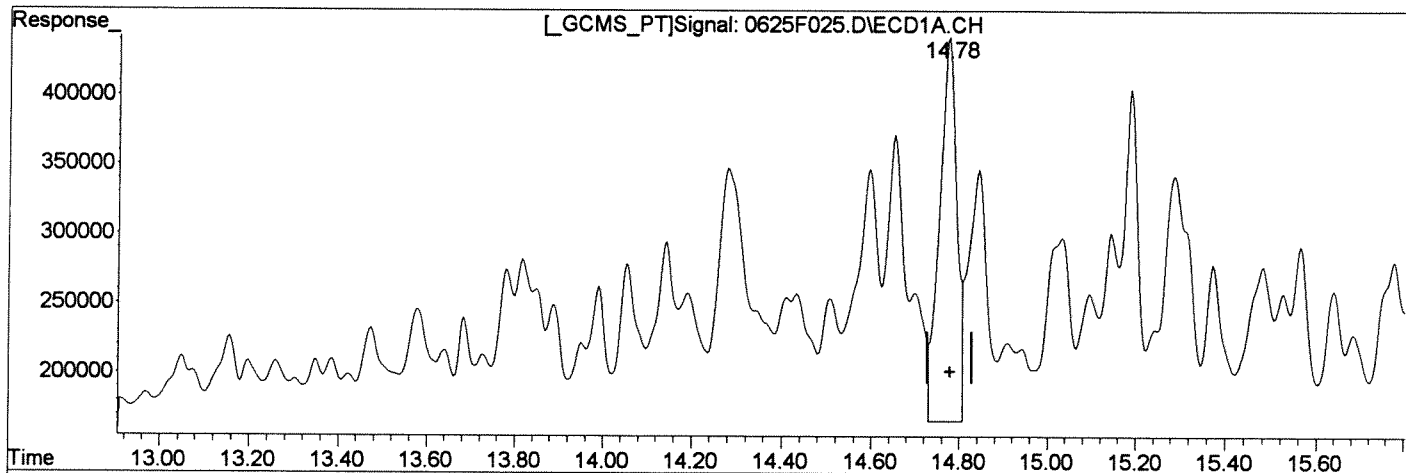
(+) = Expected Retention Time
 0625F025.D GC23-031714-8081.M

Thu Jun 26 12:21:56 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH

(32) Toxaphene {3}	Manual Integration:
14.78min 1449.383ug/L	Before
response 751967	06/26/14
(32) Toxaphene {3} #2	
13.93min 1829.493ug/L	
response 145149	

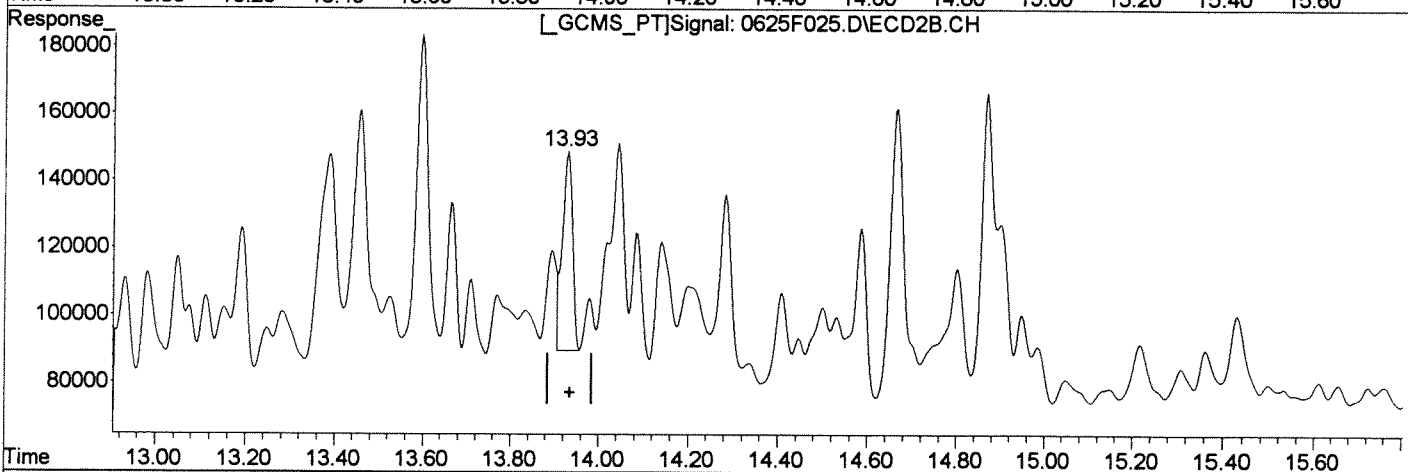
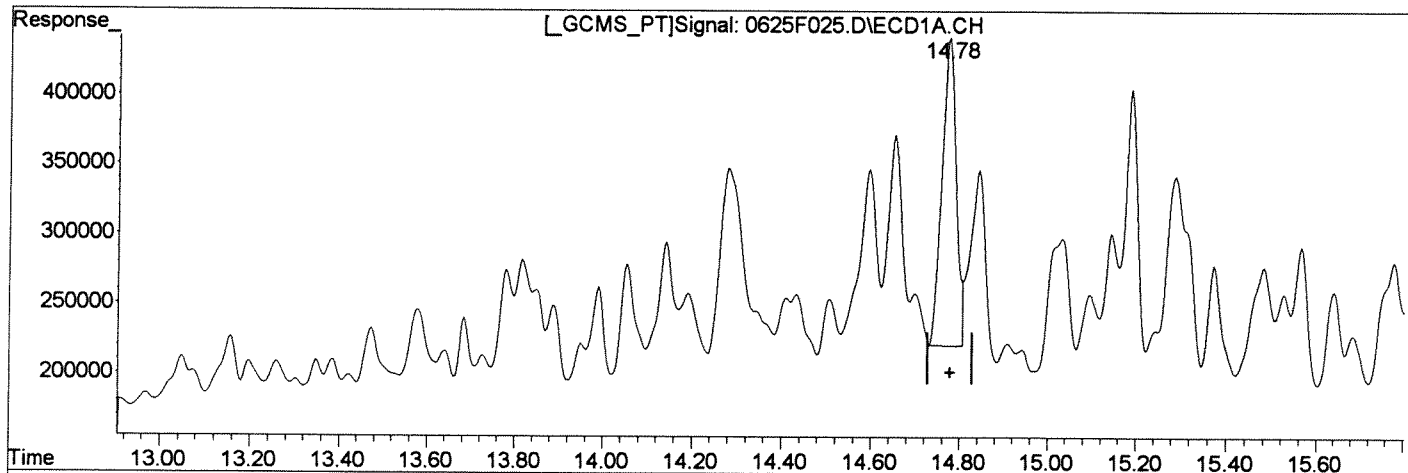
(+) = Expected Retention Time
0625F025.D GC23-031714-8081.M

Thu Jun 26 12:21:58 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH

(32) Toxaphene {3}	Manual Integration:
14.78min 963.984ug/L m	After
response 500133	Baseline/Shoulder
	06/26/14
(32) Toxaphene {3} #2	
13.93min 1178.799ug/L m	
response 93524	

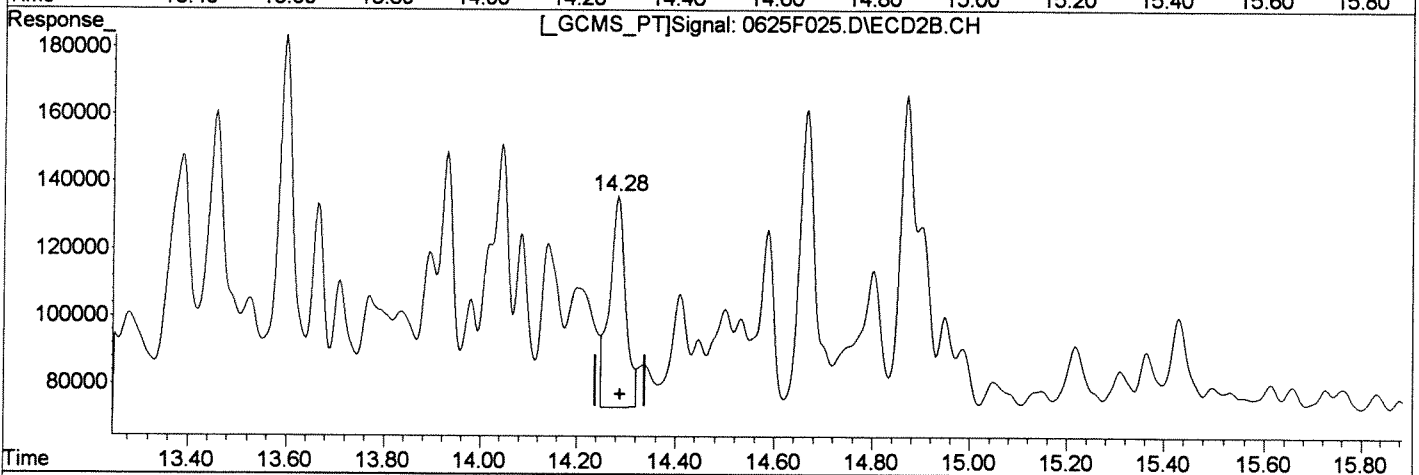
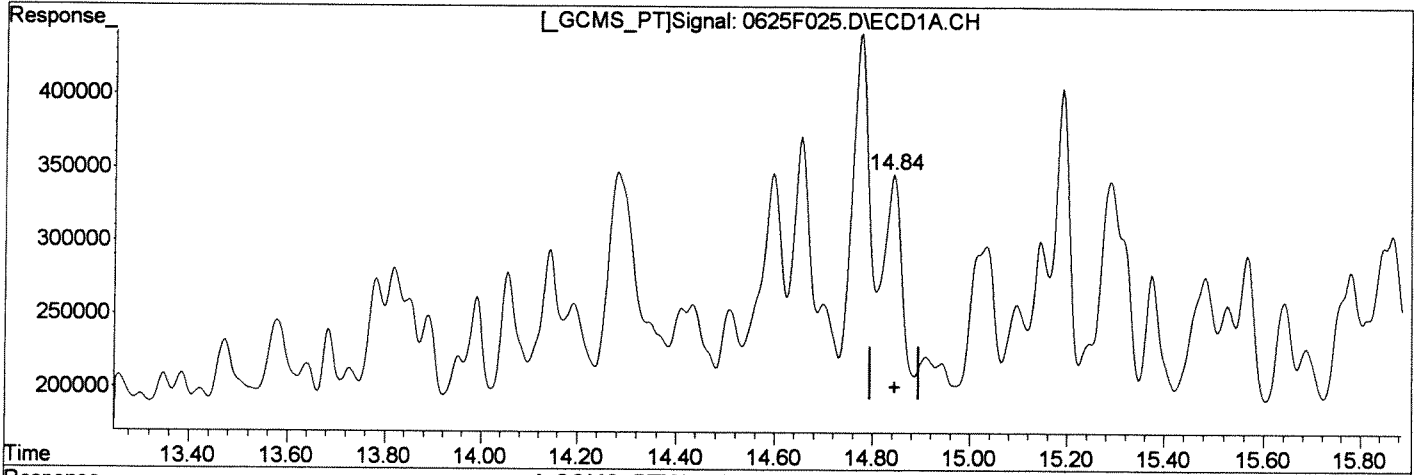
(+) = Expected Retention Time
0625F025.D GC23-031714-8081.M


Thu Jun 26 12:22:12 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH		Manual Integration:
(33) Toxaphene {4}		Before
14.84min 1625.955ug/L		
response 537004		
(33) Toxaphene {4} #2		06/26/14
14.28min 1460.238ug/L		
response 140762		

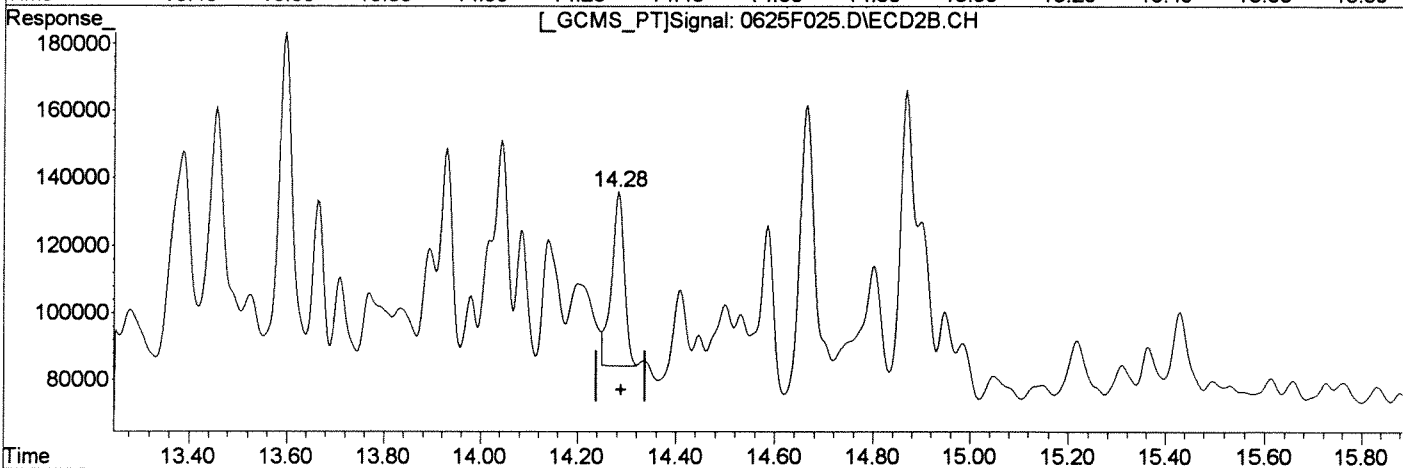
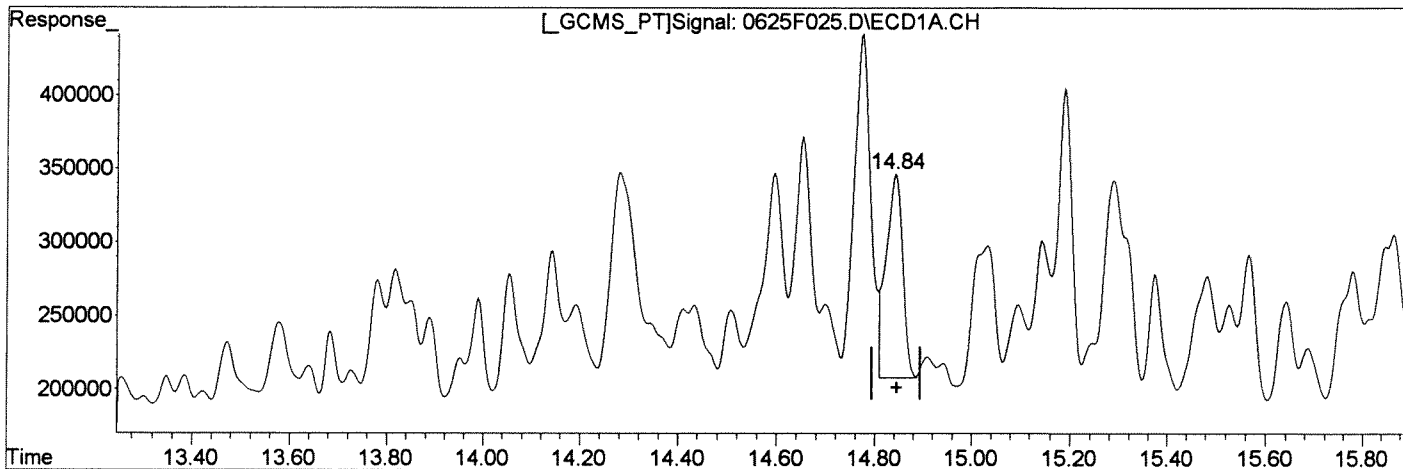
(+) = Expected Retention Time
0625F025.D GC23-031714-8081.M

Thu Jun 26 12:22:14 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
 Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
 Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH		Manual Integration:
(33) Toxaphene {4}		After
14.84min 978.018ug/L m		Baseline/Shoulder
response 323010		06/26/14
(33) Toxaphene {4} #2		
14.28min 979.246ug/L m		
response 94396		

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[Handwritten signature]

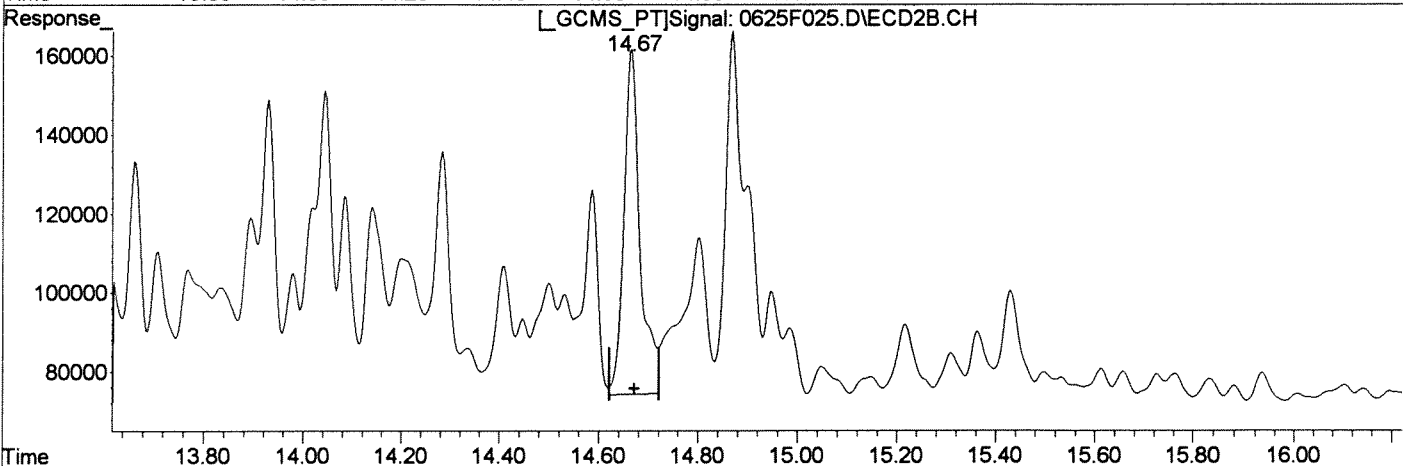
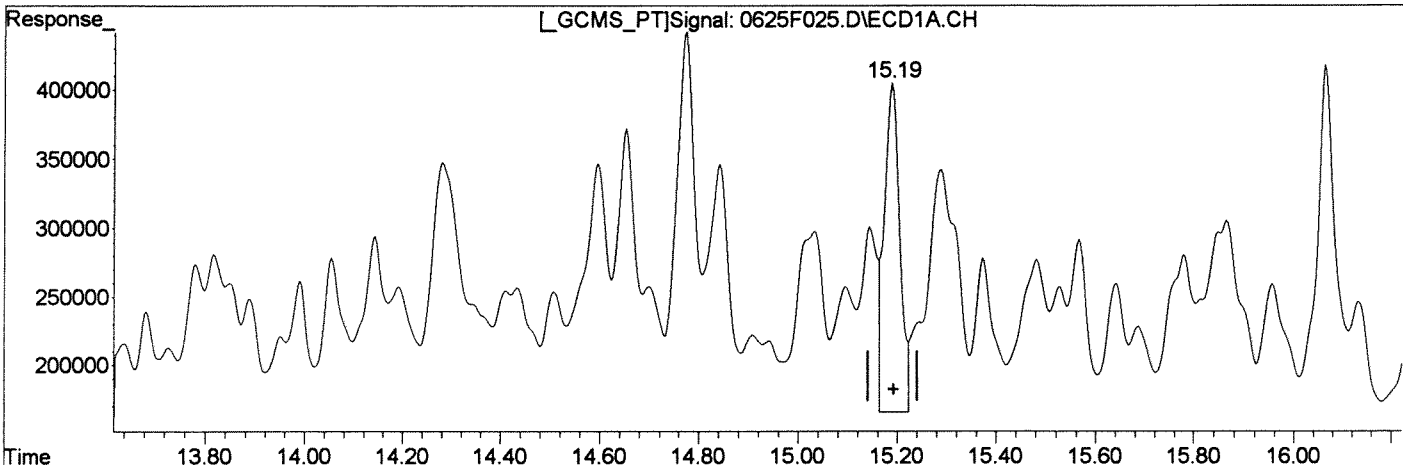
(+) = Expected Retention Time
 0625F025.D GC23-031714-8081.M

Thu Jun 26 12:22:24 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH

Retention Time (min)	Concentration (ug/L)	Response
15.19	1559.679	525341
14.67	1121.534	201377

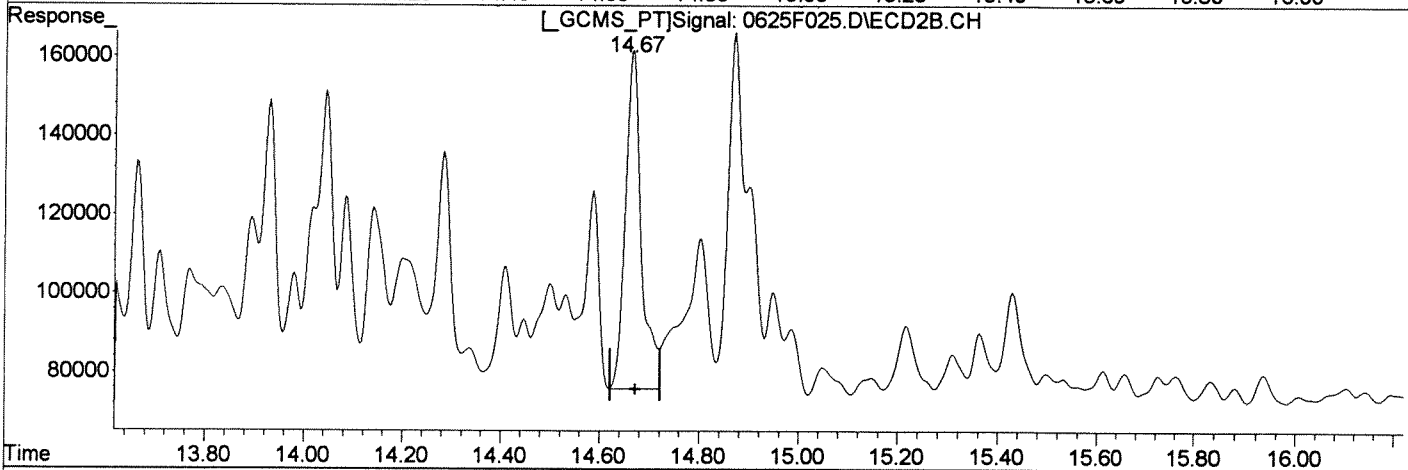
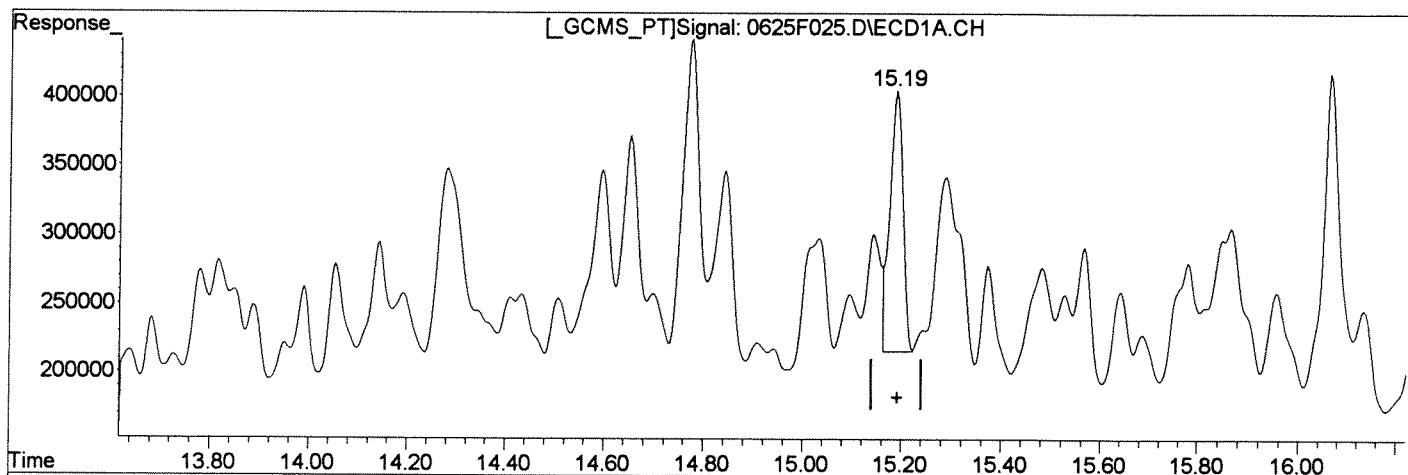
Manual Integration:
Before
06/26/14

(+) = Expected Retention Time
0625F025.D GC23-031714-8081.M Thu Jun 26 12:22:25 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
Title : CAL 13214
Last Update : Thu Jun 12 08:03:48 2014
Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH

(34) Toxaphene (5)	Manual Integration:
15.19min 1025.252ug/L m	After
response 345332	Baseline/Shoulder
	06/26/14
(34) Toxaphene (5) #2	
14.67min 1073.031ug/L m	
response 192668	

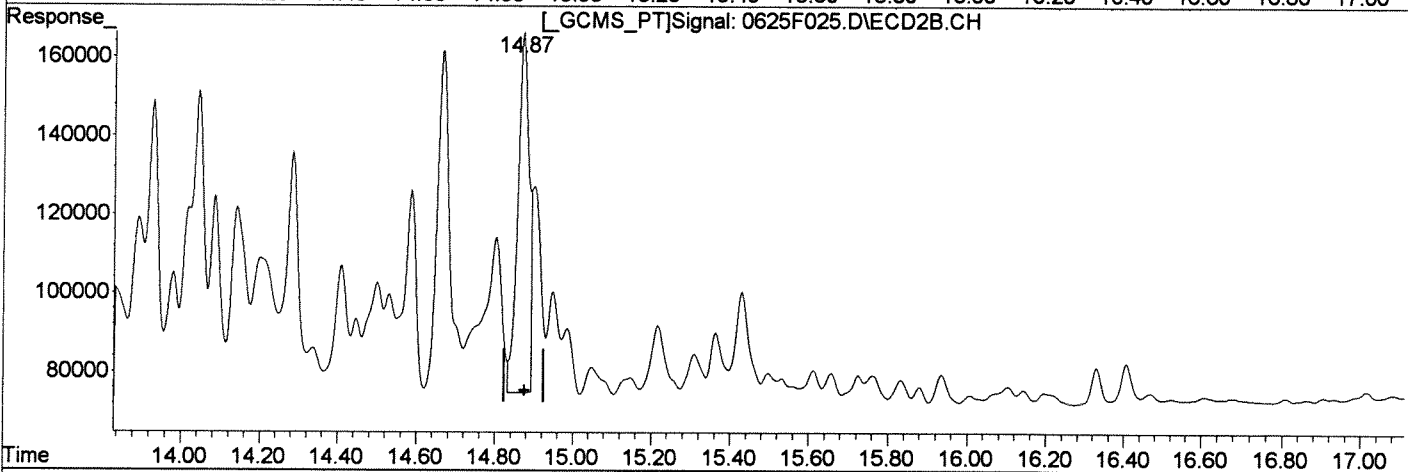
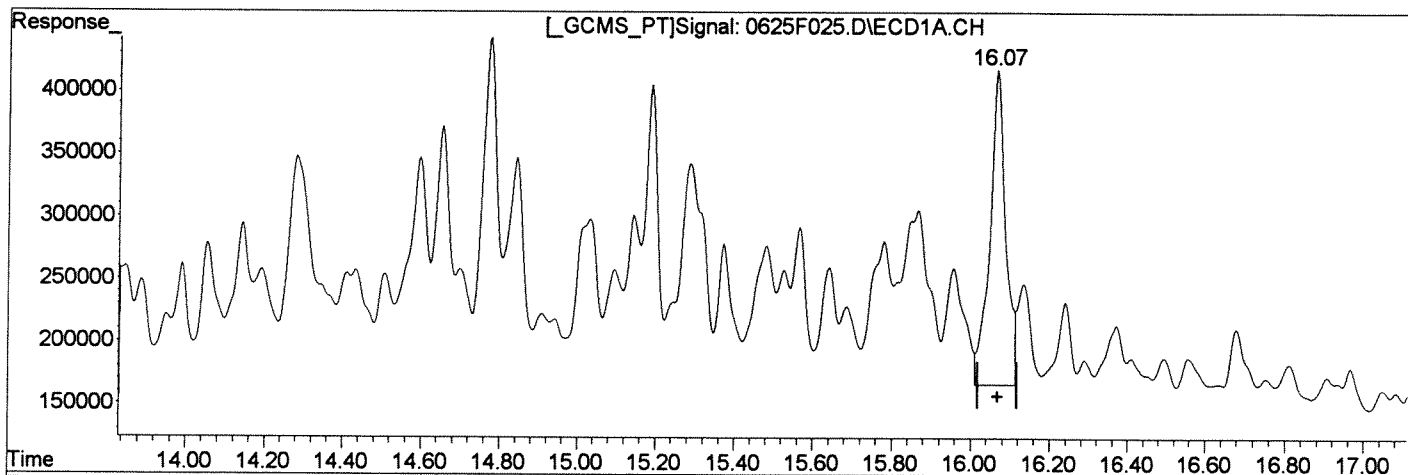
(+) = Expected Retention Time
0625F025.D GC23-031714-8081.M

Thu Jun 26 12:22:35 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
 Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
 Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH

(35) Toxaphene {6}	Manual Integration:
16.07min 1577.310ug/L	Before
response 702998	06/26/14
(35) Toxaphene {6} #2	
14.87min 1437.582ug/L	
response 188085	

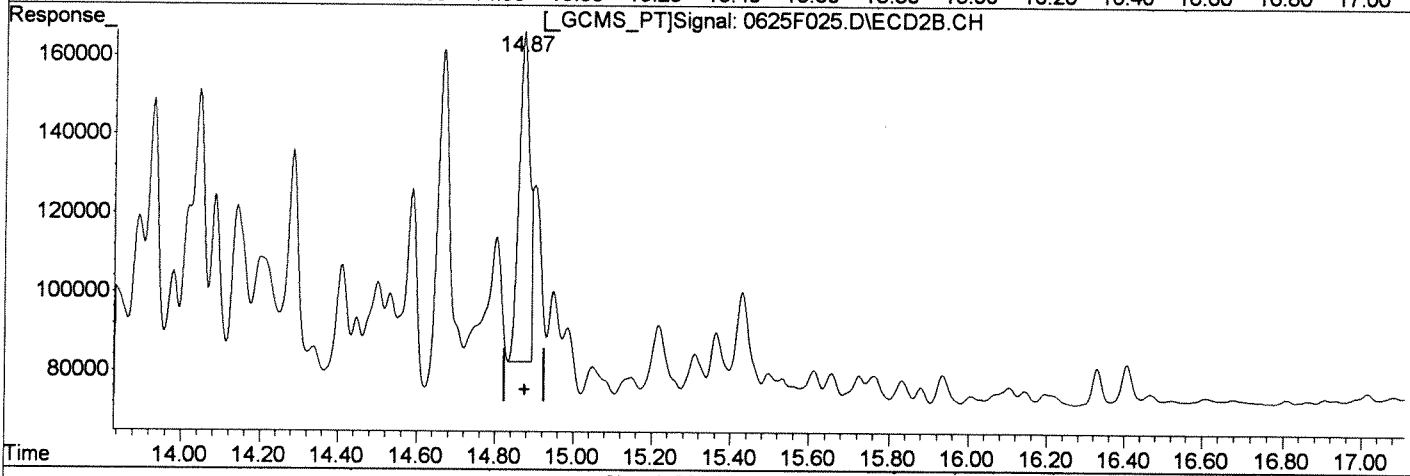
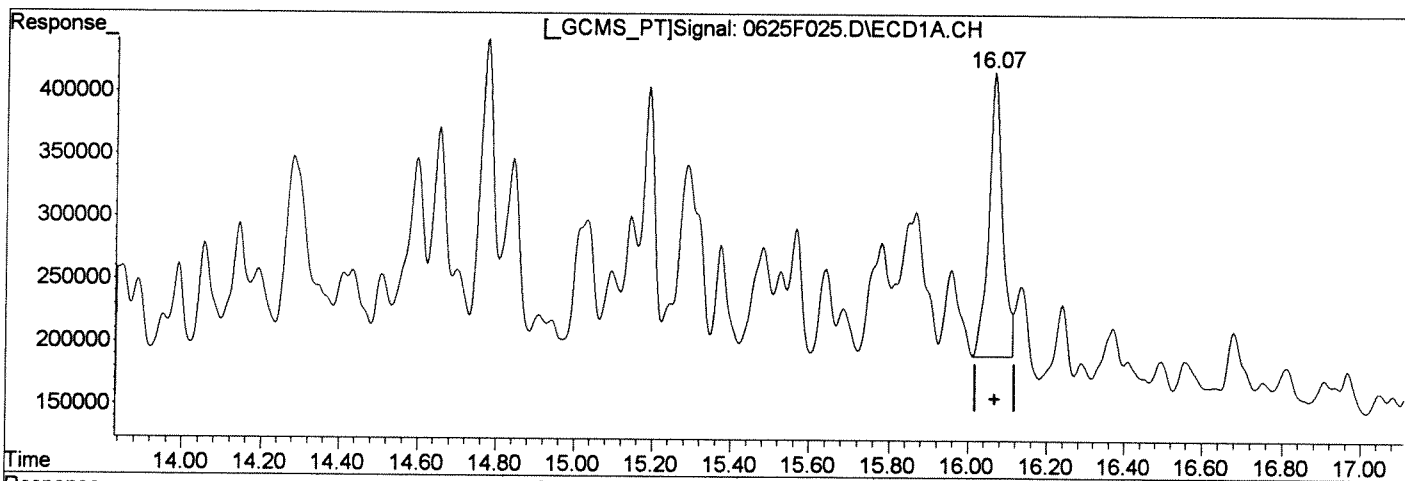
(+) = Expected Retention Time
 0625F025.D GC23-031714-8081.M

Thu Jun 26 12:22:37 2014

Quantitation Report (Qedit)

Signal #1 : J:\GC23\DATA\062514\0625F025.D\ECD1A.CH Vial: 3
 Signal #2 : J:\GC23\DATA\062514\0625F025.D\ECD2B.CH
 Acq On : 26 Jun 2014 1:53 am Operator: SMURRAY
 Sample : TOX @ 1000ppb GCPS7-77M Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12 2014 Quant Results File: GC23-031714-8081.RES

Method : J:\GC23\METHODS\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration



Signal: 0625F025.D\ECD1A.CH

(35) Toxaphene (6)
 16.07min 1232.354ug/L m
 response 549253

(35) Toxaphene (6) #2
 14.87min 1227.537ug/L m
 response 160604

Manual Integration:
 After
 Baseline/Shoulder
 06/26/14

(+) = Expected Retention Time
 0625F025.D GC23-031714-8081.M

Thu Jun 26 12:22:44 2014

Exception Report


Data File: J:\GC23\DATA\062514\0625F026.D
Lab ID: KWG1406791-6
RunType: CCV
Matrix: MARINE SEDIMENT

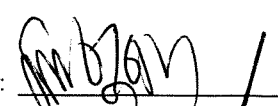
Date Acquired: 06/26/2014 02:23
Date Quantitated: 06/26/2014 12:23
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013


Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene	0	3664.166666	54656.66666	
	1-Bromo-2-nitrobenzene {2}	0	9461.666666	37846.66666	
	1-Bromo-2-nitrobenzene {4}	0	823706.5	3294826	

Primary Review: 

Secondary Review: 

Exception Report

Data File: J:\GC23\DATA\062514\0625F026.D\0625F026C.D
Lab ID: KWG1406791-6
RunType: CCV
Matrix: MARINE SEDIMENT

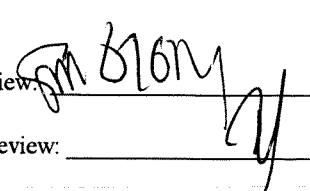
Date Acquired: 06/26/2014 02:23
Date Quantitated: 06/26/2014 12:23
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene	0	1685.333333	6741.333333	
	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	
	1-Bromo-2-nitrobenzene {4}	0	189.083333	4756.333333	

Primary Review: 

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F026.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F026.D\0625F026c.d	Vial:	4
Acqu Date:	06/26/2014 02:23	Quant Date:	06/26/2014 12:23
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-6	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	MARINE SEDIMENT
Prod Code:	8081B PEST OC	Collect Date:		Receive Date:	06/26/2014

Analysis Lot:	KWG1406791	Prep Lot:		Report Group:	
Analysis Method:	8081B	Prep Method:			
Prep Ref:		Prep Date:			

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene			0d	0d	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.06 ^{+0.06}	5.48 ^{+0.04}	2296753	774878	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}			0d	0d	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	0.00		0d	0d		0.0000	NR
						%Recovery =	NA NA	Limits = 20-106
1	Decachlorobiphenyl	0.00		0d	0d		0.0000	NR
						%Recovery =	NA NA	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC			0d	0d	0.0000	0.0000			NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000			NR
1	beta-BHC			0d	0d	0.0000	0.0000			NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000			NR
1	delta-BHC			0d	0d	0.0000	0.0000			NR
1	Heptachlor			0d	0d	0.0000	0.0000			NR
1	Aldrin			0d	0d	0.0000	0.0000			NR
1	Isodrin			0d	0d	0.0000	0.0000			NR
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000			NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F026.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F026.D\0625F026c.d	Vial:	4
Acqu Date:	06/26/2014 02:23	Quant Date:	06/26/2014 12:23
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-6	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000			NR
1	Endosulfan I			0d	0d	0.0000	0.0000			NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000			NR
1	Dieldrin			0d	0d	0.0000	0.0000			NR
1	4,4'-DDE			0d	0d	0.0000	0.0000			NR
1	Endrin			0d	0d	0.0000	0.0000			NR
1	Endosulfan II			0d	0d	0.0000	0.0000			NR
1	4,4'-DDD			0d	0d	0.0000	0.0000			NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000			NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000			NR
1	4,4'-DDT			0d	0d	0.0000	0.0000			NR
1	Endrin Ketone			0d	0d	0.0000	0.0000			NR
1	Methoxychlor			0d	0d	0.0000	0.0000			NR
1	2,4'-DDE			0d	0d	0.0000	0.0000			NR
1	2,4'-DDD			0d	0d	0.0000	0.0000			NR
1	2,4'-DDT			0d	0d	0.0000	0.0000			NR
	Toxaphene			0	0	0.0000	0.0000			NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000			
2	Toxaphene {2}			0d	0d	0.0000	0.0000			
2	Toxaphene {3}			0d	0d	0.0000	0.0000			
2	Toxaphene {4}			0d	0d	0.0000	0.0000			
2	Toxaphene {5}			0d	0d	0.0000	0.0000			
2	Toxaphene {6}			0d	0d	0.0000	0.0000			
	Chlordane			0	0	486.41	527.35			
3	Chlordane {1}	11.09	9.57	480707	168247	514.04	528.53			
3	Chlordane {2}	11.52	9.93	805743	273797	515.88	539.97			
3	Chlordane {3}	12.11	11.97	471370	603082	490.88	533.34			
3	Chlordane {4}	13.30	12.02	1726243	353061	480.52	519.99			
3	Chlordane {5}	13.38	12.08	1231424	199562	463.92	525.19			
3	Chlordane {6}	13.46	12.12	873251	477132	453.22	517.07			
4	Chlorpyrifos			0d	0d	0.0000	0.0000			
4	Oxychlordane			0d	0d	0.0000	0.0000			NR
4	cis-Nonachlor			0d	0d	0.0000	0.0000			NR
4	trans-Nonachlor			0d	0d	0.0000	0.0000			NR
4	Mirex			0d	0d	0.0000	0.0000			NR
4	Hexachloroethane			0d	0d	0.0000	0.0000			NR
4	Hexachlorobutadiene			0d	0d	0.0000	0.0000			NR
4	Alachlor			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 E: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F026.D\ECD1A.CH Vial: 4
 Signal #2 : J:\GC23\DATA\062514\0625F026.D\ECD2B.CH
 Acq On : 26 Jun 2014 2:23 am Operator: SMURRAY
 Sample : CHLOR @ 500ppb GCPS7-80B Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:14 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

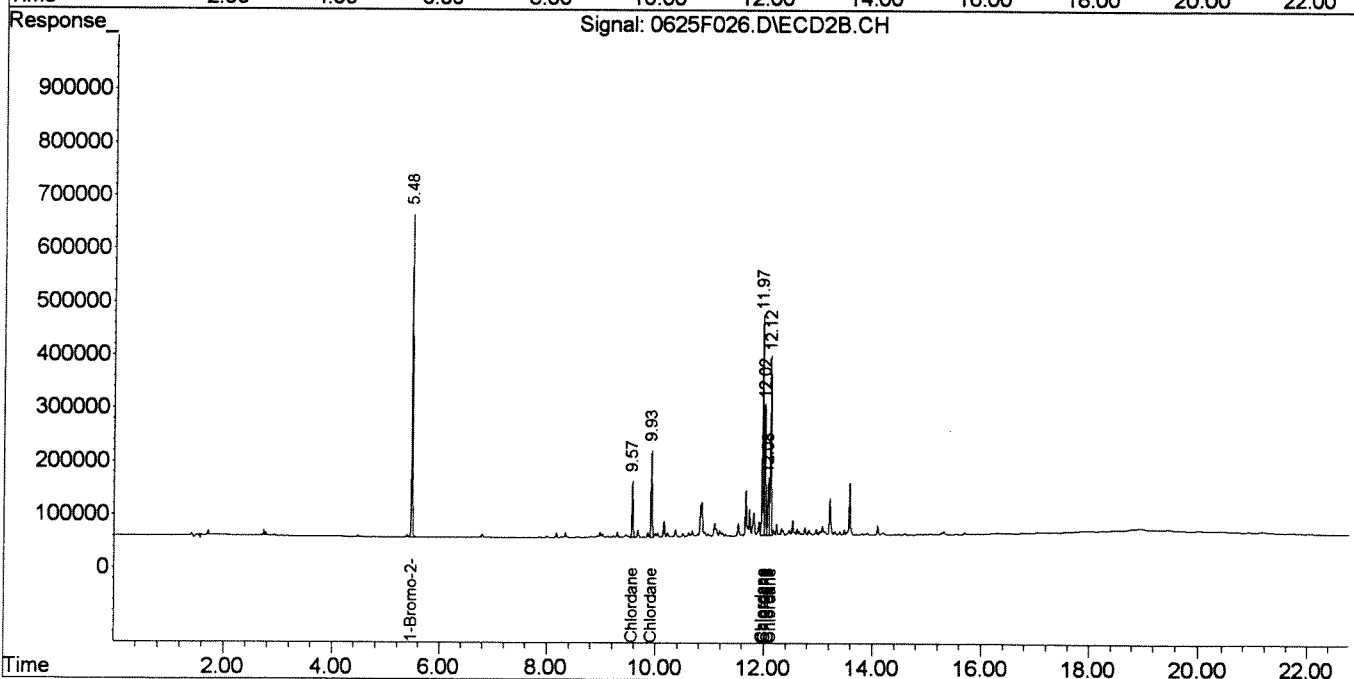
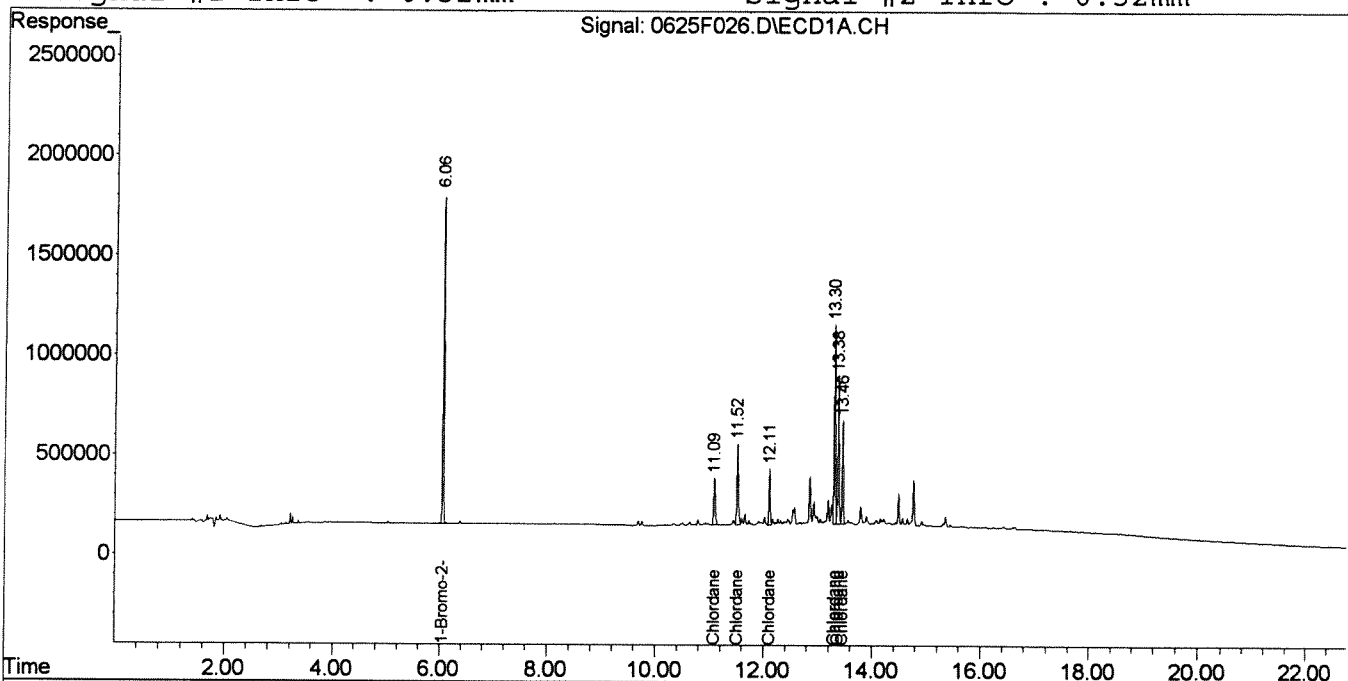
Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
36) 1-Bromo-2-nitrob	6.06	5.48	2296753	774878	100.000	100.000
System Monitoring Compounds						
Target Compounds						
37) Chlordane	11.09	9.57	480707	168247	514.041	528.530
38) Chlordane {2}	11.52	9.93	805743	273797	515.882	539.965
39) Chlordane {3}	12.11	11.97	471370	603082	490.879	533.340
40) Chlordane {4}	13.30	12.02	1726243	353061	480.515	519.992
41) Chlordane {5}	13.38	12.08	1231424	199562	463.924	525.192
42) Chlordane {6}	13.46	12.12	873251	477132	453.223	517.070

Signal #1 : J:\GC23\DATA\062514\0625F026.D\ECD1A.CH Vial: 4
 Signal #2 : J:\GC23\DATA\062514\0625F026.D\ECD2B.CH
 Acq On : 26 Jun 2014 2:23 am Operator: SMURRAY
 Sample : CHLOR @ 500ppb GCPS7-80B Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:23 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report


Data File: J:\GC23\DATA\062514\0625F027.D
Lab ID: KWG1406791-6
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 06/26/2014 02:52
Date Quantitated: 06/26/2014 12:23
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Internal Standards	1-Bromo-2-nitrobenzene	0	3664.166666	54656.66666	
	1-Bromo-2-nitrobenzene {2}	0	3461.666666	37846.66666	
	1-Bromo-2-nitrobenzene {3}	0	2579.916666	30319.66666	

Primary Review: _____

Secondary Review: _____

Exception Report

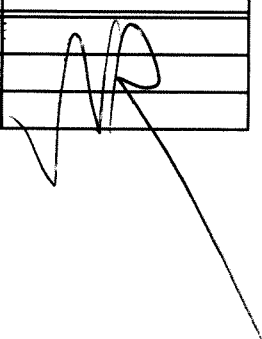
Data File: J:\GC23\DATA\062514\0625F027.D\0625F027C.D
Lab ID: KWG1406791-6
RunType: CCV
Matrix: MARINE SEDIMENT

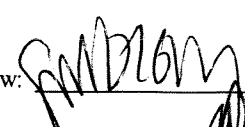
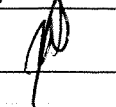
Date Acquired: 06/26/2014 02:52
Date Quantitated: 06/26/2014 12:23
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Internal Standards	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	1-Bromo-2-nitrobenzene	0	1685.333333	16741.333333	
	1-Bromo-2-nitrobenzene {2}	0	317634	1270536	
	1-Bromo-2-nitrobenzene {3}	0	321991.5	1287966	

Primary Review: 
 Secondary Review: 

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F027.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F027.D\0625F027c.d	Vial:	5
Acqu Date:	06/26/2014 02:52	Quant Date:	06/26/2014 12:23
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-6	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	MARINE SEDIMENT
Prod Code:	8081B PEST OC	Collect Date:		Receive Date:	06/26/2014

Analysis Lot:	KWG1406791	Prep Lot:		Report Group:	
Analysis Method:	8081B	Prep Method:			
Prep Ref:		Prep Date:			

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene			0d	0d	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}			0d	0d	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}			0d	0d	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.06 ^{+0.14}	5.48 ^{+0.09}	2294413	767280	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt
1	Tetrachloro-m-xylene	0.00		0d	0d		0.0000	NR
				%Recovery =		NA	NA	Limits = 20-106
1	Decachlorobiphenyl	0.00		0d	0d		0.0000	NR
				%Recovery =		NA	NA	Limits = 19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units:		Rpt
						ug/L #1	ug/L #2	
1	alpha-BHC			0d	0d	0.0000	0.0000	NR
1	Hexachlorobenzene			0d	0d	0.0000	0.0000	NR
1	beta-BHC			0d	0d	0.0000	0.0000	NR
1	gamma-BHC (Lindane)			0d	0d	0.0000	0.0000	NR
1	delta-BHC			0d	0d	0.0000	0.0000	NR
1	Heptachlor			0d	0d	0.0000	0.0000	NR
1	Aldrin			0d	0d	0.0000	0.0000	NR
1	Isodrin			0d	0d	0.0000	0.0000	NR
1	Heptachlor Epoxide			0d	0d	0.0000	0.0000	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

?: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F027.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F027.D\0625F027c.d	Vial:	5
Acqu Date:	06/26/2014 02:52	Quant Date:	06/26/2014 12:23
Run Type:	CCV	Dilution:	1.0
Lab ID:	KWG1406791-6	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds

Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0d	0d	0.0000	0.0000			NR
1	Endosulfan I			0d	0d	0.0000	0.0000			NR
1	alpha-Chlordane			0d	0d	0.0000	0.0000			NR
1	Dieldrin			0d	0d	0.0000	0.0000			NR
1	4,4'-DDE			0d	0d	0.0000	0.0000			NR
1	Endrin			0d	0d	0.0000	0.0000			NR
1	Endosulfan II			0d	0d	0.0000	0.0000			NR
1	4,4'-DDD			0d	0d	0.0000	0.0000			NR
1	Endrin Aldehyde			0d	0d	0.0000	0.0000			NR
1	Endosulfan Sulfate			0d	0d	0.0000	0.0000			NR
1	4,4'-DDT			0d	0d	0.0000	0.0000			NR
1	Endrin Ketone			0d	0d	0.0000	0.0000			NR
1	Methoxychlor			0d	0d	0.0000	0.0000			NR
1	2,4'-DDE			0d	0d	0.0000	0.0000			NR
1	2,4'-DDD			0d	0d	0.0000	0.0000			NR
1	2,4'-DDT			0d	0d	0.0000	0.0000			NR
	Toxaphene			0	0	0.0000	0.0000			NR
2	Toxaphene {1}			0d	0d	0.0000	0.0000			
2	Toxaphene {2}			0d	0d	0.0000	0.0000			
2	Toxaphene {3}			0d	0d	0.0000	0.0000			
2	Toxaphene {4}			0d	0d	0.0000	0.0000			
2	Toxaphene {5}			0d	0d	0.0000	0.0000			
2	Toxaphene {6}			0d	0d	0.0000	0.0000			
	Chlordane			0	0	0.0000	0.0000			NR
3	Chlordane {1}			0d	0d	0.0000	0.0000			
3	Chlordane {2}			0d	0d	0.0000	0.0000			
3	Chlordane {3}			0d	0d	0.0000	0.0000			
3	Chlordane {4}			0d	0d	0.0000	0.0000			
3	Chlordane {5}			0d	0d	0.0000	0.0000			
3	Chlordane {6}			0d	0d	0.0000	0.0000			
4	Chlorpyrifos	11.99	10.89	648632	247830	52.41	63.01			
4	Oxychlordane	12.75	11.39	1095283	446124	44.69	50.85			
4	cis-Nonachlor	14.50	13.22	1371911	559718	46.67	50.66			
4	trans-Nonachlor	13.47	12.02	1325407	544104	45.22	50.61			
4	Mirex	16.85	15.37	1024268	410864	46.69	52.95			
4	Hexachloroethane	4.04	3.44	2509349	935107	46.30	52.58			
4	Hexachlorobutadiene	4.81	3.99	1844715	732172	44.50	51.37			
4	Alachlor		8.94	0	1912	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F027.D\ECD1A.CH Vial: 5
 Signal #2 : J:\GC23\DATA\062514\0625F027.D\ECD2B.CH
 Acq On : 26 Jun 2014 2:52 am Operator: SMURRAY
 Sample : MISC @ 50ppb GCPS7-80F Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:16 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

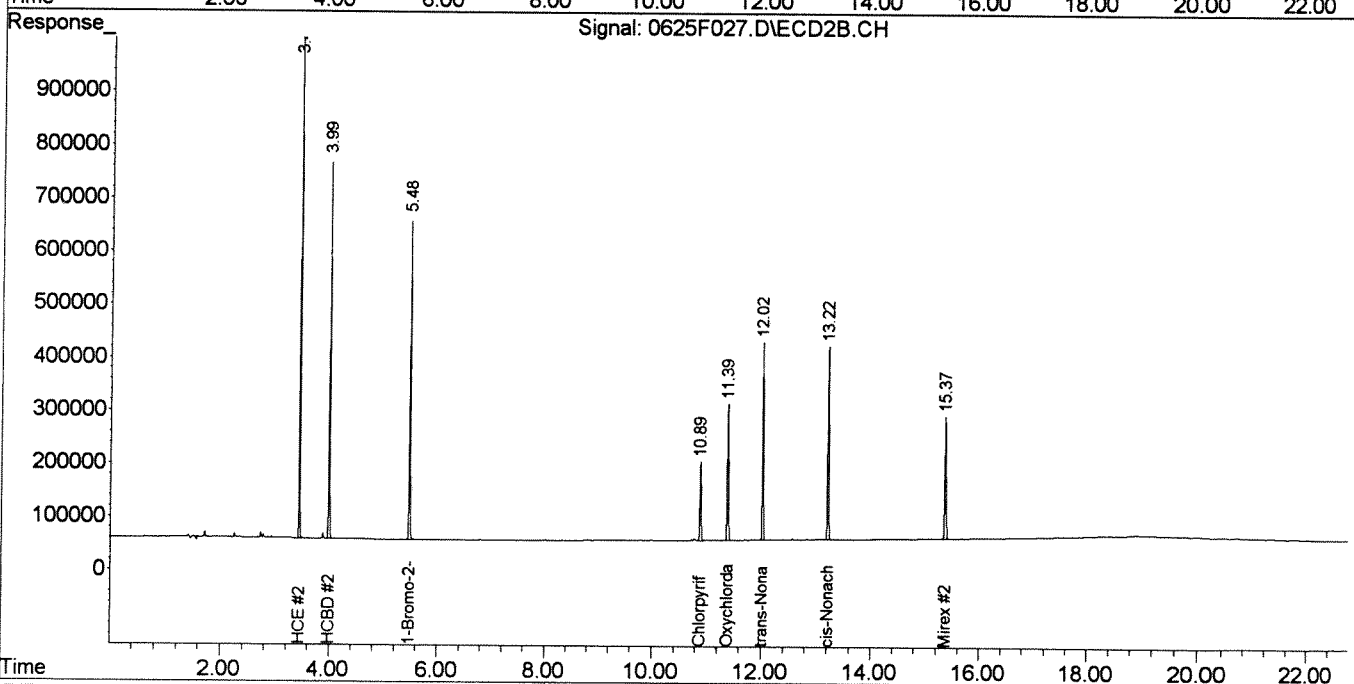
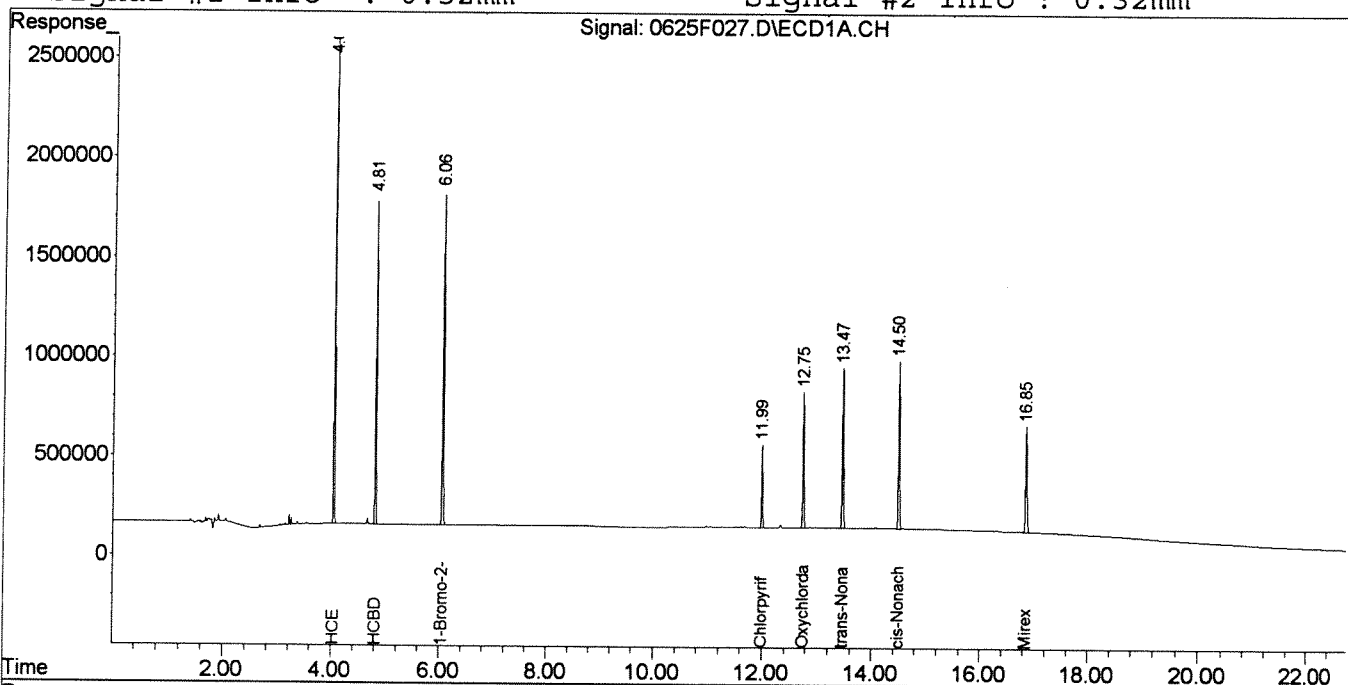
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

Internal Standards						
43) 1-Bromo-2-nitrob	6.06	5.48	2294413	767280	100.000	100.000
System Monitoring Compounds						
Target Compounds						
44) Chlorpyrifos	11.99	10.89	648632	247830	52.413	63.010
45) Oxychlordane	12.75	11.39	1095283	446124	44.692	50.848
46) cis-Nonachlor	14.50	13.22	1371911	559718	46.670	50.662
47) trans-Nonachlor	13.47	12.02	1325407	544104	45.218	50.606
48) Mirex	16.85	15.37	1024268	410864	46.691	52.951
49) HCE	4.04	3.44	2509349	935107	46.301	52.577
50) HCB	4.81	3.99	1844715	732172	44.496	51.372

Signal #1 : J:\GC23\DATA\062514\0625F027.D\ECD1A.CH Vial: 5
 Signal #2 : J:\GC23\DATA\062514\0625F027.D\ECD2B.CH
 Acq On : 26 Jun 2014 2:52 am Operator: SMURRAY
 Sample : MISC @ 50ppb GCPS7-80F Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:23 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Exception Report

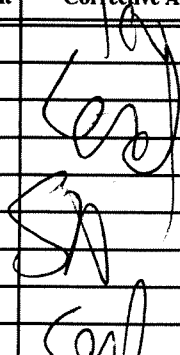
Data File: J:\GC23\DATA\062514\0625F028.D
Lab ID: KWG1406791-4
RunType: IB
Matrix: MARINE SEDIMENT

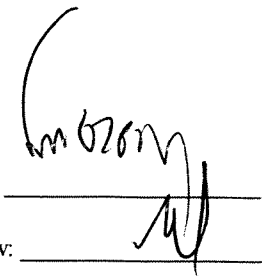
Date Acquired: 06/26/2014 03:22
Date Quantitated: 06/26/2014 12:24
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Endrin Aldehyde	21.1	NA	20	
Analyte Co-elution	1-Bromo-2-nitrobenzene	6.05	NA	NA	
	Heptachlor Epoxide	12.78	NA	NA	
	Endosulfan I	13.43	NA	NA	
	1-Bromo-2-nitrobenzene {2}	6.05	NA	NA	
	1-Bromo-2-nitrobenzene {3}	6.05	NA	NA	
	1-Bromo-2-nitrobenzene {4}	6.05	NA	NA	
	Oxychlorane	12.78	NA	NA	
	trans-Nonachlor	13.43	NA	NA	

Primary Review: 
 Secondary Review: _____

Exception Report

Data File: J:\GC23\DATA\062514\0625F028.D\0625F028C.D
Lab ID: KWG1406791-4
RunType: IB
Matrix: MARINE SEDIMENT

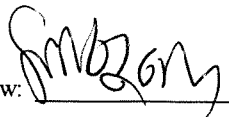
Date Acquired: 06/26/2014 03:22
Date Quantitated: 06/26/2014 12:24
Batch ID: KWG1406791
Analysis Method: 8081B
MethodJoinID: MJ1013

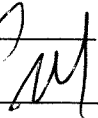
Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Co-elution	1-Bromo-2-nitrobenzene	5.47	NA	NA	Low
	2,4'-DDT	13.19	NA	NA	
	1-Bromo-2-nitrobenzene {2}	5.47	NA	NA	SA Low
	1-Bromo-2-nitrobenzene {3}	5.47	NA	NA	
	1-Bromo-2-nitrobenzene {4}	5.47	NA	NA	
	cis-Nonachlor	13.19	NA	NA	

Primary Review: 

Secondary Review: 

Quantitation Report

Data File #1:	J:\GC23\DATA\062514\0625F028.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F028.D\0625F028c.d	Vial:	6
Acqu Date:	06/26/2014 03:22	Quant Date:	06/26/2014 12:24
Run Type:	IB	Dilution:	1.0
Lab ID:	KWG1406791-4	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Bottle ID:		Tier:		Matrix:	MARINE SEDIMENT
Prod Code:	8081B PEST OC	Collect Date:		Receive Date:	06/26/2014

Analysis Lot:	KWG1406791	Prep Lot:		Report Group:	
Analysis Method:	8081B	Prep Method:			
Prep Ref:		Prep Date:			

Quant Method:	J:\GC23\METHODS\GC23-031714-	Calibration ID:	CAL13214
Title:		Method ID:	MJ1013
MB Ref:		Quant based on Method	

Internal Standard Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2
1	1-Bromo-2-nitrobenzene	6.05	c 5.47	c 1589554	539389	100.00	100.00
2	1-Bromo-2-nitrobenzene {2}	6.05	c 5.47	c 1589554	539389	100.00	100.00
3	1-Bromo-2-nitrobenzene {3}	6.05	c 5.47	c 1589554	539389	100.00	100.00
4	1-Bromo-2-nitrobenzene {4}	6.05	c 5.47	c 1589554	539389	100.00	100.00

Surrogate Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ug/L #1	ug/L #2	Rpt		
1	Tetrachloro-m-xylene	0.00		0	0		0.0000	NA		
						%Recovery =	NA	NA	Limits =	20-106
1	Decachlorobiphenyl	0.00		0	0		0.0000	NA		
						%Recovery =	NA	NA	Limits =	19-127

Target Compounds

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units: ug/L				Rpt
						ug/L #1	ug/L #2	ug/L #1	ug/L #2	
1	alpha-BHC			0	0	0.0000	0.0000			
1	Hexachlorobenzene			0	0	0.0000	0.0000			
1	beta-BHC		9.79	0d	711	0.0000	0.1800			
1	gamma-BHC (Lindane)			0d	0	0.0000	0.0000			
1	delta-BHC			0	0	0.0000	0.0000			
1	Heptachlor			0	0	0.0000	0.0000			
1	Aldrin			0	0	0.0000	0.0000			
1	Isodrin	12.57		2292	0d	0.1230	0.0000			
1	Heptachlor Epoxide	12.78	c	5237	0	0.2540	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC23\DATA\062514\0625F028.D	Instrument:	GC23
Data File #2:	J:\GC23\DATA\062514\0625F028.D\0625F028c.d	Vial:	6
Acqu Date:	06/26/2014 03:22	Quant Date:	06/26/2014 12:24
Run Type:	IB	Dilution:	1.0
Lab ID:	KWG1406791-4	Soln Conc. Units:	ug/L
Signal #1:	DB XLB	Signal #2:	DB-35MS

Target Compounds Final Conc. Units: ug/L

IS #	Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ug/L #1	ug/L #2	ug/L #1	ug/L #2	Rpt
1	gamma-Chlordane			0	0	0.0000	0.0000			
1	Endosulfan I	13.43	c	2329	0	0.1250	0.0000			
1	alpha-Chlordane			0d	0	0.0000	0.0000			
1	Dieldrin			0	0	0.0000	0.0000			
1	4,4'-DDE	13.64		3909	0d	0.1950	0.0000			
1	Endrin			0d	0	0.0000	0.0000			
1	Endosulfan II			0	0	0.0000	0.0000			
1	4,4'-DDD		13.35	0	1650	0.0000	0.2870			
1	Endrin Aldehyde			0	0	0.0000	0.0000			
1	Endosulfan Sulfate			0	0	0.0000	0.0000			
1	4,4'-DDT			0	0d	0.0000	0.0000			
1	Endrin Ketone			0	0	0.0000	0.0000			
1	Methoxychlor			0	0	0.0000	0.0000			
1	2,4'-DDE			0	0	0.0000	0.0000			
1	2,4'-DDD			0	0	0.0000	0.0000			
1	2,4'-DDT		13.19	0d	1533	0.0000	0.3320			
	Toxaphene			0	0	0.0000	0.0000			
2	Toxaphene {1}			0d	0	0.0000	0.0000			
2	Toxaphene {2}			0	0	0.0000	0.0000			
2	Toxaphene {3}			0	0	0.0000	0.0000			
2	Toxaphene {4}			0	0	0.0000	0.0000			
2	Toxaphene {5}			0	0	0.0000	0.0000			
2	Toxaphene {6}			0	0	0.0000	0.0000			
	Chlordane			0	0	0.0000	0.0000			
3	Chlordane {1}			0	0	0.0000	0.0000			
3	Chlordane {2}			0	0	0.0000	0.0000			
3	Chlordane {3}			0	0	0.0000	0.0000			
3	Chlordane {4}			0	0	0.0000	0.0000			
3	Chlordane {5}			0d	0	0.0000	0.0000			
3	Chlordane {6}			0d	0	0.0000	0.0000			
4	Chlorpyrifos	11.96		3054	0	0.3560	0.0000			
4	Oxychlordane	12.78	c 11.35	5237	1474	0.3080	0.2390			
4	cis-Nonachlor		13.19	0	1533	0.0000	0.1970			
4	trans-Nonachlor	13.43	c	2329	0	0.1150	0.0000			
4	Mirex			0	0	0.0000	0.0000			
4	Hexachloroethane			0	0	0.0000	0.0000			
4	Hexachlorobutadiene			0	0	0.0000	0.0000			
4	Alachlor			0	0	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Signal #1 : J:\GC23\DATA\062514\0625F028.D\ECD1A.CH Vial: 6
 Signal #2 : J:\GC23\DATA\062514\0625F028.D\ECD2B.CH
 Acq On : 26 Jun 2014 3:22 am Operator: SMURRAY
 Sample : IB Inst : GC23
 Misc : SEMIOVA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:12:18 2014 Quant Results File: GC23-031714-8081.RE

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Initial Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Internal Standards						
1) i 1-Bromo-2-nitrob	6.05	5.47	1589554	539389	100.000	100.000
29) 1-Bromo-2-nitrob	6.05	5.47	1589554	539389	100.000	100.000
36) 1-Bromo-2-nitrob	6.05	5.47	1589554	539389	100.000	100.000
43) 1-Bromo-2-nitrob	6.05	5.47	1589554	539389	100.000	100.000

System Monitoring Compounds

Target Compounds

5) beta-BHC	0.00	9.79	0	711	N.D. d	0.180
10) Isodrin	12.57f	0.00	2292	0	0.123	N.D. d#
11) Heptachlor Epoxi	12.78	0.00	5237	0	0.254	N.D. #
13) Endosulfan I	13.43	0.00	2329	0	0.125	N.D. #
16) 4,4'-DDE	13.64	0.00	3909	0	0.195	N.D. d#
19) 4,4'-DDD	0.00	13.35	0	1650	N.D.	0.287 #
27) 2,4'-DDT	0.00	13.19	0	1533	N.D. d	0.332 #
44) Chlorpyrifos	11.96f	0.00	3054	0	0.356	N.D. #
45) Oxychlordan	12.78f	11.35f	5237	1474	0.308	0.239
46) cis-Nonachlor	0.00	13.19f	0	1533	N.D.	0.197 #
47) trans-Nonachlor	13.43f	0.00	2329	0	0.115	N.D. #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : J:\GC23\DATA\062514\0625F028.D\ECD1A.CH Vial: 6
 Signal #2 : J:\GC23\DATA\062514\0625F028.D\ECD2B.CH
 Acq On : 26 Jun 2014 3:22 am Operator: SMURRAY
 Sample : IB Inst : GC23
 Misc : SEMIVOA GC\W0617642\3-CCV.H Multiplr: 1.00
 IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
 Quant Time: Jun 26 12:24 2014 Quant Results File: GC23-031714-8081.RES

Quant Method : J:\GC23\M...\GC23-031714-8081.M (RTE Integrator)
 Title : CAL 13214
 Last Update : Thu Jun 12 08:03:48 2014
 Response via : Multiple Level Calibration
 DataAcq Meth : PEST1UL.M

Volume Inj. :
 Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
 Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm

