



ALS Environmental
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www.alsglobal.com

May 30, 2023

Analytical Report for Service Request No: K2303523

Doug Laffoon
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

RE: Gasco-CMMA 1Q 2022 GWM / 000029-02.84 T-01.001 H

Dear Doug,

Enclosed are the results of the sample(s) submitted to our laboratory March 24, 2023
For your reference, these analyses have been assigned our service request number **K2303523**.

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 contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

for Mark Harris
Project Manager



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Low Level Organochlorine Pesticides by GC

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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.
- 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.
- 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 DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	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	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdwlabservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	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	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
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
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Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM
Sample Matrix: Water

Service Request: K2303523
Date Received: 03/24/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 03/24/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

Method 8081B, 04/12/2023: 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 higher of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for beta-BHC. The ICV and associated sample/QC results were reported from the acceptable column. The data quality was not affected. No further corrective action was necessary.

Method 8081B, 04/12/2023: The LCS KQ2305743-04/DLCS KQ2305743-05 were not spiked with Toxaphene. The field sample analyzed in the sequence did not contain the target analyte above the MRL and was run with passing CCV. Data was not affected. No further corrective action was required.

Method 8081B, 04/12/2023: The analysis of Chlorinated Pesticides by EPA 8081B requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the lower of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Methoxychlor. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

Method 8151A, 05/10/2023: The upper control criterion was exceeded for 2,4,5-TP, Dicamba, Dichloroprop, MCPA, and the surrogate compound, 2,4-Dichlorophenylacetic acid, in Continuing Calibration Verification (CCV) KQ2308608-01, -03. The field samples analyzed in this sequence did not contain the analytes in question. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

Method 8151A, 05/10/2023: The analysis of sample GS-032323-53 was initially performed past the recommended hold time. The GC required re-calibration after repeated CCV failures and column replacement. Efforts were made to reanalyze the sample as soon as possible after the analytical system was back in control. However, the reanalysis of the sample was performed past the recommended holding time. The data was flagged to indicate the holding time violation.

Approved by



Date

05/30/2023



Chain of Custody

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www.alsglobal.comSR# K2303523COC Set 1 of 1

COC# _____

Page 1 of 1

Project Name <u>GASO - CMAA 12 2022 GWH</u>		Project Number <u>00029-02.84 T-01.001 H</u>																	
Project Manager <u>John Renda</u>																			
Company <u>Anchor QEA</u>																			
Address <u>6720 S. Macadam Av. #25 Portland, OR 97210</u>																			
Phone # <u>503-670-1108</u>		email <u>jrenda@anchor-qea.com</u>																	
Sampler Signature <u>[Signature]</u>		Sampler Printed Name <u>Doug Laffoon</u>																	
CLIENT SAMPLE ID		LABID	SAMPLING Date Time	Matrix	7D	REMARKS													
1. <u>GS-032323-53</u>			<u>3/23/23 10:15</u>	<u>WG</u>	<u>4</u>	<u>X</u>	<u>X</u>												
2.																			
3.																			
4.																			
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			

Report Requirements

- ☐ I. Routine Report: Method Blank, Surrogate, as required
- ☐ II. Report Dup., MS, MSD as required
- ☐ III. CLP Like Summary (no raw data)
- ☐ IV. Data Validation Report
- ☐ V. EDD

Invoice Information

P.O.# 00029-02.84 T-01.001 HBill To: Anchor QEA

Turnaround Requirements

- ☐ 24 hr. ☐ 48 hr.
- ☒ 5 Day
- ☒ Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

Special Instructions/Comments:

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other _____ (Circle One)

Relinquished By:

Received By:

Relinquished By:

Received By:

Relinquished By:

Received By:

Signature

Signature

Signature

Signature

Signature

Signature

Printed Name

Printed Name

Printed Name

Printed Name

Printed Name

Printed Name

Firm

Firm

Firm

Firm

Firm

Firm

Date/Time

Date/Time

Date/Time

Date/Time

Date/Time

Date/Time

Cooler Receipt and Preservation Form

Client Anchor Service Request K23 03523
 Received: 3/24/23 Opened: 3/24/23 By: mm Unloaded: 3/24/23 By: mm

1. Samples were received via? USPS Courier Fed Ex UPS DHL PDX 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? 1 Front
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>3.2</u>		<u>1201</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	

4. Was a Temperature Blank present in cooler? NA Y N If yes, note the temperature in the appropriate column above:

If no, take the temperature of a representative sample bottle contained within the cooler; note in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges?

NA Y N
NA Y N

If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM.

- If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Insert Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves

7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N

8. Were samples received in good condition (unbroken) NA Y N

9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N

10. Did all sample labels and tags agree with custody papers? NA Y N

11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N

12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N

13. Were VOA vials received without headspace? Indicate in the table below NA Y N

14. Was C12/Res negative? NA Y N

15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N

16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

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

Notes, Discrepancies, Resolutions: _____



Low Level Organochlorine Pesticides by GC

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water

Service Request: K2303523
Date Collected: 03/23/23 10:15
Date Received: 03/24/23 14:18

Sample Name: GS-032323-53
Lab Code: K2303523-001

Units: ug/L
Basis: NA

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3511

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	0.010	0.0014	1	04/12/23 20:04	3/29/23	
alpha-BHC	ND U	0.010	0.0013	1	04/12/23 20:04	3/29/23	
beta-BHC	ND U	0.010	0.0017	1	04/12/23 20:04	3/29/23	
delta-BHC	ND U	0.010	0.0011	1	04/12/23 20:04	3/29/23	
gamma-BHC (Lindane)	ND U	0.010	0.00099	1	04/12/23 20:04	3/29/23	
cis-Chlordane	ND U	0.010	0.00099	1	04/12/23 20:04	3/29/23	
trans-Chlordane	ND U	0.010	0.0018	1	04/12/23 20:04	3/29/23	
4,4'-DDD	ND U	0.010	0.0036	1	04/12/23 20:04	3/29/23	
4,4'-DDE	ND U	0.010	0.0015	1	04/12/23 20:04	3/29/23	
4,4'-DDT	ND U	0.010	0.0013	1	04/12/23 20:04	3/29/23	
Dieldrin	ND U	0.010	0.0020	1	04/12/23 20:04	3/29/23	
Endosulfan I	ND U	0.010	0.00095	1	04/12/23 20:04	3/29/23	
Endosulfan II	ND U	0.010	0.0013	1	04/12/23 20:04	3/29/23	
Endosulfan Sulfate	ND U	0.010	0.0012	1	04/12/23 20:04	3/29/23	
Endrin	ND U	0.010	0.0025	1	04/12/23 20:04	3/29/23	
Endrin Aldehyde	ND U	0.010	0.0048	1	04/12/23 20:04	3/29/23	
Endrin Ketone	ND U	0.010	0.0016	1	04/12/23 20:04	3/29/23	
Heptachlor	ND U	0.010	0.00075	1	04/12/23 20:04	3/29/23	
Heptachlor Epoxide	ND U	0.010	0.0014	1	04/12/23 20:04	3/29/23	
Methoxychlor	ND U	0.025	0.0022	1	04/12/23 20:04	3/29/23	
Toxaphene	ND U	0.60	0.29	1	04/12/23 20:04	3/29/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	41	14 - 107	04/12/23 20:04	
Tetrachloro-m-xylene	83	31 - 132	04/12/23 20:04	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2305743-01

Service Request: K2303523
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3511

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	0.010	0.0014	1	04/12/23 16:17	3/29/23	
alpha-BHC	ND U	0.010	0.0013	1	04/12/23 16:17	3/29/23	
beta-BHC	ND U	0.010	0.0017	1	04/12/23 16:17	3/29/23	
delta-BHC	ND U	0.010	0.0011	1	04/12/23 16:17	3/29/23	
gamma-BHC (Lindane)	ND U	0.010	0.00099	1	04/12/23 16:17	3/29/23	
cis-Chlordane	ND U	0.010	0.00099	1	04/12/23 16:17	3/29/23	
trans-Chlordane	ND U	0.010	0.0018	1	04/12/23 16:17	3/29/23	
4,4'-DDD	ND U	0.010	0.0013	1	04/12/23 16:17	3/29/23	
4,4'-DDE	ND U	0.010	0.0015	1	04/12/23 16:17	3/29/23	
4,4'-DDT	ND U	0.010	0.0013	1	04/12/23 16:17	3/29/23	
Dieldrin	ND U	0.010	0.0020	1	04/12/23 16:17	3/29/23	
Endosulfan I	ND U	0.010	0.00095	1	04/12/23 16:17	3/29/23	
Endosulfan II	ND U	0.010	0.0013	1	04/12/23 16:17	3/29/23	
Endosulfan Sulfate	ND U	0.010	0.0012	1	04/12/23 16:17	3/29/23	
Endrin	ND U	0.010	0.0025	1	04/12/23 16:17	3/29/23	
Endrin Aldehyde	ND U	0.010	0.0048	1	04/12/23 16:17	3/29/23	
Endrin Ketone	ND U	0.010	0.0016	1	04/12/23 16:17	3/29/23	
Heptachlor	ND U	0.010	0.00075	1	04/12/23 16:17	3/29/23	
Heptachlor Epoxide	ND U	0.010	0.0014	1	04/12/23 16:17	3/29/23	
Methoxychlor	ND U	0.025	0.0022	1	04/12/23 16:17	3/29/23	
Toxaphene	ND U	0.60	0.29	1	04/12/23 16:17	3/29/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	85	14 - 107	04/12/23 16:17	
Tetrachloro-m-xylene	87	31 - 132	04/12/23 16:17	

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Matrix: Water

Service Request: K2303523

Date Collected: NA

Date Received:

Sample Name: Lab Control Sample

Lab Code: KQ2305743-02

Units: ug/L

Basis: NA

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B

Prep Method: EPA 3511

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	0.0013	0.222	0.248	11		1	04/12/23 17:02
4,4'-DDE	0.0015	0.229	0.236	3		1	04/12/23 17:02
4,4'-DDT	0.0013	0.232	0.251	8		1	04/12/23 17:02
Aldrin	0.0014	0.220	0.227	3		1	04/12/23 17:02
Dieldrin	0.0020	0.242	0.262	8		1	04/12/23 17:02
Endosulfan I	0.00095	0.185	0.196	6		1	04/12/23 17:02
Endosulfan II	0.0013	0.217	0.226	4		1	04/12/23 17:02
Endosulfan Sulfate	0.0012	0.249	0.251	<1		1	04/12/23 17:02
Endrin	0.0025	0.241	0.259	7		1	04/12/23 17:02
Endrin Aldehyde	0.0048	0.241	0.259	7		1	04/12/23 17:02
Endrin Ketone	0.0016	0.246	0.253	3		1	04/12/23 17:02
Heptachlor	0.00075	0.220	0.254	14		1	04/12/23 17:02
Heptachlor Epoxide	0.0014	0.229	0.265	15		1	04/12/23 17:02
Methoxychlor	0.0022	0.250	0.283	12		1	04/12/23 17:02
alpha-BHC	0.0013	0.229	0.234	2		1	04/12/23 17:02
beta-BHC	0.0017	0.258	0.258	<1		1	04/12/23 17:02
cis-Chlordane	0.00099	0.234	0.263	12		1	04/12/23 17:02
delta-BHC	0.0011	0.244	0.244	<1		1	04/12/23 17:02
gamma-BHC (Lindane)	0.00099	0.246	0.250	2		1	04/12/23 17:02
trans-Chlordane	0.0018	0.236	0.270	13		1	04/12/23 17:02

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Matrix: Water

Service Request: K2303523

Date Collected: NA

Date Received:

Sample Name: Duplicate Lab Control Sample

Lab Code: KQ2305743-03

Units: ug/L

Basis: NA

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B

Prep Method: EPA 3511

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	0.0013	0.221	0.247	11		1	04/12/23 17:48
4,4'-DDE	0.0015	0.227	0.231	2		1	04/12/23 17:48
4,4'-DDT	0.0013	0.231	0.247	7		1	04/12/23 17:48
Aldrin	0.0014	0.218	0.224	3		1	04/12/23 17:48
Dieldrin	0.0020	0.239	0.257	7		1	04/12/23 17:48
Endosulfan I	0.00095	0.183	0.194	6		1	04/12/23 17:48
Endosulfan II	0.0013	0.217	0.235	8		1	04/12/23 17:48
Endosulfan Sulfate	0.0012	0.246	0.249	1		1	04/12/23 17:48
Endrin	0.0025	0.238	0.257	8		1	04/12/23 17:48
Endrin Aldehyde	0.0048	0.240	0.254	6		1	04/12/23 17:48
Endrin Ketone	0.0016	0.244	0.247	1		1	04/12/23 17:48
Heptachlor	0.00075	0.219	0.250	13		1	04/12/23 17:48
Heptachlor Epoxide	0.0014	0.229	0.259	12		1	04/12/23 17:48
Methoxychlor	0.0022	0.244	0.277	13		1	04/12/23 17:48
alpha-BHC	0.0013	0.226	0.231	2		1	04/12/23 17:48
beta-BHC	0.0017	0.251	0.255	2		1	04/12/23 17:48
cis-Chlordane	0.00099	0.232	0.262	12		1	04/12/23 17:48
delta-BHC	0.0011	0.241	0.241	<1		1	04/12/23 17:48
gamma-BHC (Lindane)	0.00099	0.241	0.248	3		1	04/12/23 17:48
trans-Chlordane	0.0018	0.233	0.268	14		1	04/12/23 17:48

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC

Service Request: K2303523

Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B

Extraction Method: EPA 3511

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		14 - 107	31 - 132
GS-032323-53	K2303523-001	41	83
Method Blank	KQ2305743-01	85	87
Lab Control Sample	KQ2305743-02	83	82
Duplicate Lab Control Sample	KQ2305743-03	81	82

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Service Request: K2303523
Date Analyzed: 4/12/23 13:15

Internal Standard Area and RT Summary
Low Level Organochlorine Pesticides by GC

File ID: I:\GC38\DATA\041023B\0410F058.D\
Instrument ID: K-GC-38
Analytical Method: 8081B

Lab Code: KQ2307176-01
Analysis Lot: 801556
Signal ID: DB XLB

		1-Bromo-2-nitrobenzene		1-Bromo-2-nitrobenzene {2}	
		<u>Area</u>	<u>RT</u>	<u>Area</u>	<u>RT</u>
ICAL Average ==>		54,619,194	6.12	48,232,688	6.16
Upper Limit ==>		109,238,388	6.62	96,465,376	6.66
Lower Limit ==>		27,309,597	5.62	24,116,344	5.66
Associated Analyses					
Continuing Calibration Verification	KQ2307176-01	65,841,458	6.07	65,841,458	6.07
Continuing Calibration Verification	KQ2307176-01	72,555,054	6.08	72,555,054	6.08
Method Blank	KQ2305743-01	56,350,330	6.08	56,350,330	6.08
Lab Control Sample	KQ2305743-02	59,624,506	6.08	59,624,506	6.08
Duplicate Lab Control Sample	KQ2305743-03	60,207,402	6.08	60,207,402	6.08
GS-032323-53	K2303523-001	60,128,419	6.07	60,128,419	6.07

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Service Request: K2303523
Date Analyzed: 4/12/23 13:15

Internal Standard Area and RT Summary
Low Level Organochlorine Pesticides by GC

File ID: I:\GC38\DATA\041023B\0410F058.D\
Instrument ID: K-GC-38
Analytical Method: 8081B

Lab Code: KQ2307176-01
Analysis Lot: 801556
Signal ID: DB-35MS

	1-Bromo-2-nitrobenzene		1-Bromo-2-nitrobenzene {2}	
	<u>Area</u>	<u>RT</u>	<u>Area</u>	<u>RT</u>
ICAL Average ==>	33,493,070	5.52	31,201,016	5.57
Upper Limit ==>	66,986,140	6.02	62,402,032	6.07
Lower Limit ==>	16,746,535	5.02	15,600,508	5.07

Associated Analyses

Continuing Calibration Verification	KQ2307176-01	36,924,866	5.47	36,924,866	5.47
Continuing Calibration Verification	KQ2307176-01	41,194,289	5.47	41,194,289	5.47
Method Blank	KQ2305743-01	31,781,689	5.47	31,781,689	5.47
Lab Control Sample	KQ2305743-02	33,711,122	5.47	33,711,122	5.47
Duplicate Lab Control Sample	KQ2305743-03	33,938,817	5.47	33,938,817	5.47
GS-032323-53	K2303523-001	34,190,595	5.47	34,190,595	5.47

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

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water

Service Request: K2303523
Date Analyzed: 04/12/23
Date Extracted: 03/29/23

Duplicate Lab Control Sample Summary
Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3511

Units: ug/L
Basis: NA
Analysis Lot: 801556

Lab Control Sample
KQ2305743-02

Duplicate Lab Control Sample
KQ2305743-03

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	0.222	0.250	89	0.221	0.250	88	10-178	<1	30
4,4'-DDE	0.229	0.250	92	0.227	0.250	91	18-133	1	30
4,4'-DDT	0.232	0.250	93	0.231	0.250	92	18-162	<1	30
Aldrin	0.220	0.250	88	0.218	0.250	87	17-130	<1	30
alpha-BHC	0.229	0.250	91	0.226	0.250	90	17-150	1	30
beta-BHC	0.258	0.250	103	0.251	0.250	100	18-147	3	30
cis-Chlordane	0.234	0.250	93	0.232	0.250	93	22-130	<1	30
delta-BHC	0.244	0.250	98	0.241	0.250	96	19-139	1	30
Dieldrin	0.242	0.250	97	0.239	0.250	96	21-123	<1	30
Endosulfan I	0.185	0.250	74	0.183	0.250	73	13-135	<1	30
Endosulfan II	0.217	0.250	87	0.217	0.250	87	10-168	<1	30
Endosulfan Sulfate	0.249	0.250	100	0.246	0.250	98	18-141	1	30
Endrin	0.241	0.250	96	0.238	0.250	95	18-138	<1	30
Endrin Aldehyde	0.241	0.250	96	0.240	0.250	96	20-139	<1	30
Endrin Ketone	0.246	0.250	98	0.244	0.250	98	20-140	<1	30
gamma-BHC (Lindane)	0.246	0.250	98	0.241	0.250	96	22-143	2	30
Heptachlor	0.220	0.250	88	0.219	0.250	87	10-147	<1	30
Heptachlor Epoxide	0.229	0.250	92	0.229	0.250	92	19-127	<1	30
Methoxychlor	0.250	0.250	100	0.244	0.250	98	24-197	2	30
trans-Chlordane	0.236	0.250	94	0.233	0.250	93	24-127	<1	30

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water

Service Request: K2303523**Date Analyzed:** NA**Date Extracted:****Method Blank Summary****Low Level Organochlorine Pesticides by GC****Sample Name:****Instrument ID:****Lab Code:****File ID:****Analysis Method:** 8081B**Analysis Lot:**801556**Prep Method:** None

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Performance Evaluation	KQ2307176-03	I:\GC38\DATA\041023B\0410F057.D\	04/12/23 12:29

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water

Service Request: K2303523
Date Analyzed: 04/12/23 16:17
Date Extracted: 03/29/23

Method Blank Summary
Low Level Organochlorine Pesticides by GC

Sample Name: Method Blank
Lab Code: KQ2305743-01
Analysis Method: 8081B
Prep Method: EPA 3511

Instrument ID: K-GC-38
File ID: I:\GC38\DATA\041023B\0410F062.D\
Analysis Lot: 801556
Extraction Lot: 417398

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2305743-02	I:\GC38\DATA\041023B\0410F063.D\	04/12/23 17:02
Duplicate Lab Control Sample	KQ2305743-03	I:\GC38\DATA\041023B\0410F064.D\	04/12/23 17:48
GS-032323-53	K2303523-001	I:\GC38\DATA\041023B\0410F067.D\	04/12/23 20:04

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water

Service Request: K2303523**Date Analyzed:** NA**Date Extracted:**

Lab Control Sample Summary
Low Level Organochlorine Pesticides by GC

Sample Name:**Instrument ID:****Lab Code:****File ID:****Analysis Method:** 8081B**Analysis Lot:**801556**Prep Method:** None

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Performance Evaluation	KQ2307176-03	I:\GC38\DATA\041023B\0410F057.D\	04/12/23 12:29

ALS Group USA, Corp.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water

Service Request: K2303523
Date Analyzed: 04/12/23 17:02
Date Extracted: 03/29/23

Lab Control Sample Summary
Low Level Organochlorine Pesticides by GC

Sample Name: Lab Control Sample **Instrument ID:** K-GC-38
Lab Code: KQ2305743-02 **File ID:** I:\GC38\DATA\041023B\0410F063.D\
Analysis Method: 8081B **Analysis Lot:** 801556
Prep Method: EPA 3511 **Extraction Lot:** 417398

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2305743-01	I:\GC38\DATA\041023B\0410F062.D\	04/12/23 16:17
Duplicate Lab Control Sample	KQ2305743-03	I:\GC38\DATA\041023B\0410F064.D\	04/12/23 17:48
GS-032323-53	K2303523-001	I:\GC38\DATA\041023B\0410F067.D\	04/12/23 20:04

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB XLB

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC2300233-08	24 .2 PPB GCPS9-15G @50X	J:\GC38\DATA\030823ICAL\0308F005.D	03/08/2023 18:45
09	KC2300233-09	24 .5 PPB GCPS9-15G @20X	J:\GC38\DATA\030823ICAL\0308F006.D	03/08/2023 19:30
10	KC2300233-10	24 1 PPB GCPS9-15G @10X	J:\GC38\DATA\030823ICAL\0308F007.D	03/08/2023 20:14
11	KC2300233-11	24 2 PPB GCPS9-15G @5X	J:\GC38\DATA\030823ICAL\0308F008.D	03/08/2023 20:59
12	KC2300233-12	24 5 PPB GCPS9-15G @2X	J:\GC38\DATA\030823ICAL\0308F009.D	03/08/2023 21:43
13	KC2300233-13	24 10 PPB GCPS9-15G	J:\GC38\DATA\030823ICAL\0308F010.D	03/08/2023 22:28
15	KC2300233-15	M/P .2/1 PPB GCPS9-24D @50X	J:\GC38\DATA\030823ICAL\0308F012.D	03/08/2023 23:56
16	KC2300233-16	M/P .5/2.5 PPB GCPS9-24D @20X	J:\GC38\DATA\030823ICAL\0308F013.D	03/09/2023 00:41
17	KC2300233-17	M/P 1/5 PPB GCPS9-24D @10X	J:\GC38\DATA\030823ICAL\0308F014.D	03/09/2023 01:25
18	KC2300233-18	M/P 2/10 PPB GCPS9-24D @5X	J:\GC38\DATA\030823ICAL\0308F015.D	03/09/2023 02:09
19	KC2300233-19	M/P 5/25 PPB GCPS9-24D @2X	J:\GC38\DATA\030823ICAL\0308F016.D	03/09/2023 02:53
20	KC2300233-20	M/P 10/50 PPB GCPS9-24D	J:\GC38\DATA\030823ICAL\0308F017.D	03/09/2023 03:37
21	KC2300233-21	PERTH 100 PPB GSP9-124E	J:\GC38\DATA\030823ICAL\0308F018.D	03/09/2023 04:22
24	KC2300233-24	TOX 10 PPB GCPS9-18K @50X	J:\GC38\DATA\030823ICAL\0308F021.D	03/09/2023 06:34
25	KC2300233-25	TOX 25 PPB GCPS9-18K @20X	J:\GC38\DATA\030823ICAL\0308F022.D	03/09/2023 07:18
26	KC2300233-26	TOX 50 PPB GCPS9-18K @10X	J:\GC38\DATA\030823ICAL\0308F023.D	03/09/2023 08:03
27	KC2300233-27	TOX 100 PPB GCPS9-18K @5X	J:\GC38\DATA\030823ICAL\0308F024.D	03/09/2023 08:47
28	KC2300233-28	TOX 250 PPB GCPS9-18K @2X	J:\GC38\DATA\030823ICAL\0308F025.D	03/09/2023 09:32
29	KC2300233-29	TOX 500 PPB GCPS9-18K	J:\GC38\DATA\030823ICAL\0308F026.D	03/09/2023 10:16
31	KC2300233-31	CHLOR 2 PPB GCPS9-24I@100X	J:\GC38\DATA\030823ICAL\0308F028.D	03/09/2023 11:46
32	KC2300233-32	CHLOR 5 PPB GCPS9-24I @40X	J:\GC38\DATA\030823ICAL\0308F029.D	03/09/2023 12:31
33	KC2300233-33	CHLOR 10 PPB GCPS9-24I @20X	J:\GC38\DATA\030823ICAL\0308F030.D	03/09/2023 13:16
34	KC2300233-34	CHLOR 20 PPB GCPS9-24I@10X	J:\GC38\DATA\030823ICAL\0308F031.D	03/09/2023 14:01
35	KC2300233-35	CHLOR 50 PPB GCPS9-24I@4X	J:\GC38\DATA\030823ICAL\0308F032.D	03/09/2023 15:44
36	KC2300233-36	CHLOR 100 PPB GCPS9-24I@2X	J:\GC38\DATA\030823ICAL\0308F033.D	03/09/2023 16:28
37	KC2300233-37	CHLOR 200 PPB GCPS9-24I	J:\GC38\DATA\030823ICAL\0308F034.D	03/09/2023 17:13
01	KC2300233-01	8081 .2 PPB GCPS9-24B @50X	J:\GC38\DATA\040323ICAL\0403F005.D	04/03/2023 14:51
02	KC2300233-02	8081 .5 PPB GCPS9-24B @20X	J:\GC38\DATA\040323ICAL\0403F006.D	04/03/2023 15:36
03	KC2300233-03	8081 1 PPB GCPS9-24B @10X	J:\GC38\DATA\040323ICAL\0403F007.D	04/03/2023 16:21
04	KC2300233-04	8081 2 PPB GCPS9-24B @5X	J:\GC38\DATA\040323ICAL\0403F008.D	04/03/2023 17:05
05	KC2300233-05	8081 5 PPB GCPS9-24B @2X	J:\GC38\DATA\040323ICAL\0403F009.D	04/03/2023 17:50
06	KC2300233-06	8081 10 PPB GCPS9-24B	J:\GC38\DATA\040323ICAL\0403F010.D	04/03/2023 18:35

Analyte

4,4'-DDD

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.289	02	0.500	0.7789	03	1.000	0.7787	04	2.000	0.7551
05	5.000	0.6994	06	10.000	0.7083						

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB XLB

Analyte

4,4'-DDE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.369	02	0.500	0.9658	03	1.000	0.9952	04	2.000	0.9317
05	5.000	0.8921	06	10.000	0.8948						

4,4'-DDT

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.13	02	0.500	0.5211	03	1.000	0.5467	04	2.000	0.5482
05	5.000	0.5418	06	10.000	0.5615						

Aldrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.572	02	0.500	1.107	03	1.000	1.104	04	2.000	1.052
05	5.000	0.9947	06	10.000	0.982						

Decachlorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	0.9373	02	0.500	0.7431	03	1.000	0.7763	04	2.000	0.7754
05	5.000	0.7488	06	10.000	0.7327						

Dieldrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.636	02	0.500	0.985	03	1.000	0.9717	04	2.000	0.9337
05	5.000	0.8911	06	10.000	0.884						

Endosulfan I

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.186	02	0.500	0.8934	03	1.000	0.9197	04	2.000	0.8987
05	5.000	0.8592	06	10.000	0.8459						

Endosulfan II

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.172	02	0.500	0.7245	03	1.000	0.8081	04	2.000	0.8049
05	5.000	0.7849	06	10.000	0.7756						

Endosulfan Sulfate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.283	02	0.500	0.9371	03	1.000	0.8435	04	2.000	0.8042
05	5.000	0.768	06	10.000	0.7572						

Endrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.241	02	0.500	0.8544	03	1.000	0.8719	04	2.000	0.8086
05	5.000	0.7685	06	10.000	0.7587						

Endrin Aldehyde

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	0.999	02	0.500	0.7624	03	1.000	0.7349	04	2.000	0.7062
05	5.000	0.6635	06	10.000	0.6455						

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB XLB

Analyte

Endrin Ketone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.303	02	0.500	0.8645	03	1.000	0.8565	04	2.000	0.7934
05	5.000	0.7747	06	10.000	0.7739						

Heptachlor

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.619	02	0.500	1.257	03	1.000	1.212	04	2.000	1.168
05	5.000	1.091	06	10.000	1.056						

Heptachlor Epoxide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.663	02	0.500	1.139	03	1.000	1.096	04	2.000	1.068
05	5.000	0.9879	06	10.000	0.9597						

Methoxychlor

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.500	0.2365	03	1.000	0.2402	04	2.000	0.2567	05	5.000	0.257
06	10.000	0.267									

Tetrachloro-m-xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.502	02	0.500	1.433	03	1.000	1.42	04	2.000	1.361
05	5.000	1.251	06	10.000	1.203						

Toxaphene {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.01154	25	25.000	0.01224	26	50.000	0.01165	27	100.000	0.01147
28	250.000	0.01015	29	500.000	0.008852						

Toxaphene {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.01194	25	25.000	0.01206	26	50.000	0.01078	27	100.000	0.01333
28	250.000	0.009165	29	500.000	0.008493						

Toxaphene {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.01748	25	25.000	0.0188	26	50.000	0.0187	27	100.000	0.01815
28	250.000	0.01674	29	500.000	0.01465						

Toxaphene {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.0136	25	25.000	0.01342	26	50.000	0.01319	27	100.000	0.01357
28	250.000	0.01216	29	500.000	0.01114						

Toxaphene {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.01945	25	25.000	0.01826	26	50.000	0.01822	27	100.000	0.01708
28	250.000	0.01569	29	500.000	0.01435						

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dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB XLB

Analyte

Toxaphene {6}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.02195	25	25.000	0.02127	26	50.000	0.02297	27	100.000	0.02534
28	250.000	0.0196	29	500.000	0.01951						

alpha-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.633	02	0.500	1.283	03	1.000	1.297	04	2.000	1.26
05	5.000	1.202	06	10.000	1.207						

beta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.004	02	0.500	0.6574	03	1.000	0.6652	04	2.000	0.6371
05	5.000	0.5879	06	10.000	0.5521						

cis-Chlordane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.265	02	0.500	1.037	03	1.000	1.037	04	2.000	1.008
05	5.000	0.9516	06	10.000	0.9285						

delta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.612	02	0.500	1.053	03	1.000	1.065	04	2.000	1.043
05	5.000	1.006	06	10.000	1.007						

gamma-BHC (Lindane)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.652	02	0.500	1.171	03	1.000	1.156	04	2.000	1.122
05	5.000	1.059	06	10.000	1.044						

trans-Chlordane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.479	02	0.500	1.093	03	1.000	1.079	04	2.000	1.034
05	5.000	0.9603	06	10.000	0.9357						

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB XLB

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4,4'-DDD	TRG	Linear	R2	0.9997	0.99	0.835	
4,4'-DDE	TRG	Average RF	% RSD	18.0	20	1.008	
4,4'-DDT	TRG	Linear	R2	0.9924	0.99	0.6416	
Aldrin	TRG	Average RF	% RSD	19.4	20	1.135	
Decachlorobiphenyl	SURR	Average RF	% RSD	9.7	20	0.7856	
Dieldrin	TRG	Linear	R2	0.9999	0.99	1.05	
Endosulfan I	TRG	Average RF	% RSD	13.5	20	0.9338	
Endosulfan II	TRG	Linear	R2	0.9998	0.99	0.845	
Endosulfan Sulfate	TRG	Linear	R2	1.0000	0.99	0.8988	
Endrin	TRG	Linear	R2	0.9999	0.99	0.8839	
Endrin Aldehyde	TRG	Linear	R2	0.9998	0.99	0.7519	
Endrin Ketone	TRG	Linear	R2	0.9999	0.99	0.8943	
Heptachlor	TRG	Linear	R2	0.9997	0.99	1.234	
Heptachlor Epoxide	TRG	Linear	R2	0.9998	0.99	1.152	
Methoxychlor	TRG	Average RF	% RSD	5.1	20	0.2515	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	8.4	20	1.362	
Toxaphene {1}	MULTI	Average RF	% RSD	11.4	20	0.01098	
Toxaphene {2}	MULTI	Average RF	% RSD	16.9	20	0.01096	
Toxaphene {3}	MULTI	Average RF	% RSD	9.0	20	0.01742	
Toxaphene {4}	MULTI	Average RF	% RSD	7.7	20	0.01284	
Toxaphene {5}	MULTI	Average RF	% RSD	10.9	20	0.01717	
Toxaphene {6}	MULTI	Average RF	% RSD	10.1	20	0.02177	
alpha-BHC	TRG	Linear	R2	0.9999	0.99	1.314	
beta-BHC	TRG	Linear	R2	0.9991	0.99	0.6839	
cis-Chlordane	TRG	Linear	R2	0.9998	0.99	1.038	
delta-BHC	TRG	Linear	R2	0.9999	0.99	1.131	
gamma-BHC (Lindane)	TRG	Linear	R2	0.9999	0.99	1.201	
trans-Chlordane	TRG	Linear	R2	0.9998	0.99	1.097	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB-35MS

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC2300233-08	24 .2 PPB GCPS9-15G @50X	J:\GC38\DATA\030823ICAL\0308F005.D	03/08/2023 18:45
09	KC2300233-09	24 .5 PPB GCPS9-15G @20X	J:\GC38\DATA\030823ICAL\0308F006.D	03/08/2023 19:30
10	KC2300233-10	24 1 PPB GCPS9-15G @10X	J:\GC38\DATA\030823ICAL\0308F007.D	03/08/2023 20:14
11	KC2300233-11	24 2 PPB GCPS9-15G @5X	J:\GC38\DATA\030823ICAL\0308F008.D	03/08/2023 20:59
12	KC2300233-12	24 5 PPB GCPS9-15G @2X	J:\GC38\DATA\030823ICAL\0308F009.D	03/08/2023 21:43
13	KC2300233-13	24 10 PPB GCPS9-15G	J:\GC38\DATA\030823ICAL\0308F010.D	03/08/2023 22:28
15	KC2300233-15	M/P .2/1 PPB GCPS9-24D @50X	J:\GC38\DATA\030823ICAL\0308F012.D	03/08/2023 23:56
16	KC2300233-16	M/P .5/2.5 PPB GCPS9-24D @20X	J:\GC38\DATA\030823ICAL\0308F013.D	03/09/2023 00:41
17	KC2300233-17	M/P 1/5 PPB GCPS9-24D @10X	J:\GC38\DATA\030823ICAL\0308F014.D	03/09/2023 01:25
18	KC2300233-18	M/P 2/10 PPB GCPS9-24D @5X	J:\GC38\DATA\030823ICAL\0308F015.D	03/09/2023 02:09
19	KC2300233-19	M/P 5/25 PPB GCPS9-24D @2X	J:\GC38\DATA\030823ICAL\0308F016.D	03/09/2023 02:53
20	KC2300233-20	M/P 10/50 PPB GCPS9-24D	J:\GC38\DATA\030823ICAL\0308F017.D	03/09/2023 03:37
21	KC2300233-21	PERTH 100 PPB GSP9-124E	J:\GC38\DATA\030823ICAL\0308F018.D	03/09/2023 04:22
24	KC2300233-24	TOX 10 PPB GCPS9-18K @50X	J:\GC38\DATA\030823ICAL\0308F021.D	03/09/2023 06:34
25	KC2300233-25	TOX 25 PPB GCPS9-18K @20X	J:\GC38\DATA\030823ICAL\0308F022.D	03/09/2023 07:18
26	KC2300233-26	TOX 50 PPB GCPS9-18K @10X	J:\GC38\DATA\030823ICAL\0308F023.D	03/09/2023 08:03
27	KC2300233-27	TOX 100 PPB GCPS9-18K @5X	J:\GC38\DATA\030823ICAL\0308F024.D	03/09/2023 08:47
28	KC2300233-28	TOX 250 PPB GCPS9-18K @2X	J:\GC38\DATA\030823ICAL\0308F025.D	03/09/2023 09:32
29	KC2300233-29	TOX 500 PPB GCPS9-18K	J:\GC38\DATA\030823ICAL\0308F026.D	03/09/2023 10:16
31	KC2300233-31	CHLOR 2 PPB GCPS9-24I@100X	J:\GC38\DATA\030823ICAL\0308F028.D	03/09/2023 11:46
32	KC2300233-32	CHLOR 5 PPB GCPS9-24I @40X	J:\GC38\DATA\030823ICAL\0308F029.D	03/09/2023 12:31
33	KC2300233-33	CHLOR 10 PPB GCPS9-24I @20X	J:\GC38\DATA\030823ICAL\0308F030.D	03/09/2023 13:16
34	KC2300233-34	CHLOR 20 PPB GCPS9-24I@10X	J:\GC38\DATA\030823ICAL\0308F031.D	03/09/2023 14:01
35	KC2300233-35	CHLOR 50 PPB GCPS9-24I@4X	J:\GC38\DATA\030823ICAL\0308F032.D	03/09/2023 15:44
36	KC2300233-36	CHLOR 100 PPB GCPS9-24I@2X	J:\GC38\DATA\030823ICAL\0308F033.D	03/09/2023 16:28
37	KC2300233-37	CHLOR 200 PPB GCPS9-24I	J:\GC38\DATA\030823ICAL\0308F034.D	03/09/2023 17:13
01	KC2300233-01	8081 .2 PPB GCPS9-24B @50X	J:\GC38\DATA\040323ICAL\0403F005.D	04/03/2023 14:51
02	KC2300233-02	8081 .5 PPB GCPS9-24B @20X	J:\GC38\DATA\040323ICAL\0403F006.D	04/03/2023 15:36
03	KC2300233-03	8081 1 PPB GCPS9-24B @10X	J:\GC38\DATA\040323ICAL\0403F007.D	04/03/2023 16:21
04	KC2300233-04	8081 2 PPB GCPS9-24B @5X	J:\GC38\DATA\040323ICAL\0403F008.D	04/03/2023 17:05
05	KC2300233-05	8081 5 PPB GCPS9-24B @2X	J:\GC38\DATA\040323ICAL\0403F009.D	04/03/2023 17:50
06	KC2300233-06	8081 10 PPB GCPS9-24B	J:\GC38\DATA\040323ICAL\0403F010.D	04/03/2023 18:35

Analyte

4,4'-DDD

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.14	02	0.500	0.8363	03	1.000	0.8073	04	2.000	0.8116
05	5.000	0.8138	06	10.000	0.8112						

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB-35MS

Analyte

4,4'-DDE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.493	02	0.500	1.027	03	1.000	1.118	04	2.000	1.105
05	5.000	1.108	06	10.000	1.087						

4,4'-DDT

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.525	02	0.500	0.9427	03	1.000	0.8605	04	2.000	0.8378
05	5.000	0.8369	06	10.000	0.832						

Aldrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.617	02	0.500	1.219	03	1.000	1.186	04	2.000	1.179
05	5.000	1.18	06	10.000	1.159						

Decachlorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.314	02	0.500	1.25	03	1.000	1.178	04	2.000	1.121
05	5.000	1.034	06	10.000	0.9928						

Dieldrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.707	02	0.500	1.102	03	1.000	1.168	04	2.000	1.113
05	5.000	1.068	06	10.000	1.046						

Endosulfan I

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.436	02	0.500	1.04	03	1.000	1.034	04	2.000	1.03
05	5.000	1.021	06	10.000	0.99						

Endosulfan II

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.367	02	0.500	1.004	03	1.000	1.021	04	2.000	1.021
05	5.000	0.9813	06	10.000	0.9506						

Endosulfan Sulfate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.52	02	0.500	1.086	03	1.000	1.008	04	2.000	1.021
05	5.000	0.9945	06	10.000	0.9547						

Endrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.264	02	0.500	0.8564	03	1.000	0.8941	04	2.000	0.9482
05	5.000	0.9411	06	10.000	0.9341						

Endrin Aldehyde

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.221	02	0.500	0.8925	03	1.000	0.8677	04	2.000	0.8387
05	5.000	0.8134	06	10.000	0.7801						

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB-35MS

Analyte

Endrin Ketone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	2.182	02	0.500	1.248	03	1.000	1.176	04	2.000	1.112
05	5.000	1.048	06	10.000	1.037						

Heptachlor

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.688	02	0.500	1.24	03	1.000	1.232	04	2.000	1.225
05	5.000	1.19	06	10.000	1.15						

Heptachlor Epoxide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.651	02	0.500	1.139	03	1.000	1.12	04	2.000	1.132
05	5.000	1.116	06	10.000	1.082						

Methoxychlor

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.500	0.4509	03	1.000	0.4034	04	2.000	0.39	05	5.000	0.3876
06	10.000	0.3918									

Tetrachloro-m-xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.582	02	0.500	1.579	03	1.000	1.577	04	2.000	1.564
05	5.000	1.465	06	10.000	1.406						

Toxaphene {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.02191	25	25.000	0.02096	26	50.000	0.02157	27	100.000	0.02087
28	250.000	0.02028	29	500.000	0.01991						

Toxaphene {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.01738	25	25.000	0.01825	26	50.000	0.01606	27	100.000	0.01601
28	250.000	0.01525	29	500.000	0.01468						

Toxaphene {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.02158	25	25.000	0.02022	26	50.000	0.01935	27	100.000	0.01995
28	250.000	0.02022	29	500.000	0.02021						

Toxaphene {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.01451	25	25.000	0.01462	26	50.000	0.01487	27	100.000	0.01434
28	250.000	0.01571	29	500.000	0.01568						

Toxaphene {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.02444	25	25.000	0.02149	26	50.000	0.02303	27	100.000	0.02282
28	250.000	0.02226	29	500.000	0.02263						

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB-35MS

Analyte

Toxaphene {6}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	10.000	0.02684	25	25.000	0.02755	26	50.000	0.027	27	100.000	0.03212
28	250.000	0.02721	29	500.000	0.02666						

alpha-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.658	02	0.500	1.245	03	1.000	1.279	04	2.000	1.294
05	5.000	1.32	06	10.000	1.332						

beta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	0.9537	02	0.500	0.6344	03	1.000	0.6549	04	2.000	0.6298
05	5.000	0.6268	06	10.000	0.6063						

cis-Chlordane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.552	02	0.500	1.137	03	1.000	1.17	04	2.000	1.169
05	5.000	1.147	06	10.000	1.117						

delta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.624	02	0.500	1.053	03	1.000	1.093	04	2.000	1.095
05	5.000	1.124	06	10.000	1.126						

gamma-BHC (Lindane)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.923	02	0.500	1.367	03	1.000	1.276	04	2.000	1.214
05	5.000	1.186	06	10.000	1.168						

trans-Chlordane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.200	1.568	02	0.500	1.168	03	1.000	1.153	04	2.000	1.156
05	5.000	1.145	06	10.000	1.113						

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB-35MS

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4,4'-DDD	TRG	Average RF	% RSD	15.2	20	0.87	
4,4'-DDE	TRG	Average RF	% RSD	14.5	20	1.156	
4,4'-DDT	TRG	Linear	R2	0.9998	0.99	0.9725	
Aldrin	TRG	Average RF	% RSD	14.1	20	1.257	
Decachlorobiphenyl	SURR	Average RF	% RSD	10.8	20	1.148	
Dieldrin	TRG	Linear	R2	0.9999	0.99	1.201	
Endosulfan I	TRG	Average RF	% RSD	15.5	20	1.092	
Endosulfan II	TRG	Linear	R2	0.9997	0.99	1.057	
Endosulfan Sulfate	TRG	Linear	R2	0.9997	0.99	1.098	
Endrin	TRG	Average RF	% RSD	15.1	20	0.9729	
Endrin Aldehyde	TRG	Linear	R2	0.9997	0.99	0.9023	
Endrin Ketone	TRG	Linear	R2	0.9999	0.99	1.301	
Heptachlor	TRG	Average RF	% RSD	15.5	20	1.287	
Heptachlor Epoxide	TRG	Average RF	% RSD	18.1	20	1.207	
Methoxychlor	TRG	Average RF	% RSD	6.6	20	0.4047	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	4.9	20	1.529	
Toxaphene {1}	MULTI	Average RF	% RSD	3.6	20	0.02092	
Toxaphene {2}	MULTI	Average RF	% RSD	8.2	20	0.01627	
Toxaphene {3}	MULTI	Average RF	% RSD	3.6	20	0.02026	
Toxaphene {4}	MULTI	Average RF	% RSD	4.0	20	0.01495	
Toxaphene {5}	MULTI	Average RF	% RSD	4.3	20	0.02278	
Toxaphene {6}	MULTI	Average RF	% RSD	7.5	20	0.0279	
alpha-BHC	TRG	Average RF	% RSD	11.2	20	1.355	
beta-BHC	TRG	Average RF	% RSD	19.4	20	0.6843	
cis-Chlordane	TRG	Average RF	% RSD	13.7	20	1.216	
delta-BHC	TRG	Linear	R2	0.9998	0.99	1.186	
gamma-BHC (Lindane)	TRG	Linear	R2	1.0000	0.99	1.356	
trans-Chlordane	TRG	Average RF	% RSD	14.2	20	1.217	

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Verification Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB XLB

#	Lab Code	Sample Name	File Location	Acquisition Date
14	KC2300233-14	24 ICV 2 PPB GCPS9-15I	J:\GC38\DATA\030823ICAL\0308F011.D	03/08/2023 23:12
22	KC2300233-22	PERTH ICV 25 PPB GSP9-24F	J:\GC38\DATA\030823ICAL\0308F019.D	03/09/2023 05:06
23	KC2300233-23	MISC ICV 2 PPB GCPS9-16C	J:\GC38\DATA\030823ICAL\0308F020.D	03/09/2023 05:50
30	KC2300233-30	TOX ICV 100 PPB GCPS9-22I @5X	J:\GC38\DATA\030823ICAL\0308F027.D	03/09/2023 11:01
38	KC2300233-38	CHLOR ICV 50 PPB GCPS9-24H	J:\GC38\DATA\030823ICAL\0308F035.D	03/09/2023 17:58
07	KC2300233-07	8081 ICV 2 PPB GCPS9-22B	J:\GC38\DATA\040323ICAL\0403F011.D	04/03/2023 19:20

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Aldrin	2.00	2.02	1.135E0	1.149E0	1.21	±20	Average RF
alpha-BHC	2.00	2.27	1.314E0	1.396E0	13.29	±20	Linear
beta-BHC	2.00	2.43	6.839E-1	7.234E-1	21.46*	±20	Linear
delta-BHC	2.00	2.31	1.131E0	1.187E0	15.25	±20	Linear
gamma-BHC (Lindane)	2.00	2.32	1.201E0	1.258E0	15.86	±20	Linear
cis-Chlordane	2.00	2.31	1.038E0	1.118E0	15.56	±20	Linear
trans-Chlordane	2.00	2.33	1.097E0	1.149E0	16.50	±20	Linear
4,4'-DDD	2.00	2.20	8.35E-1	8.074E-1	10.12	±20	Linear
4,4'-DDE	2.00	2.03	1.008E0	1.025E0	1.63	±20	Average RF
4,4'-DDT	2.00	1.66	6.416E-1	4.814E-1	-16.883	±20	Linear
Dieldrin	2.00	2.13	1.05E0	9.831E-1	6.60	±20	Linear
Endosulfan I	2.00	2.17	9.338E-1	1.014E0	8.55	±20	Average RF
Endosulfan II	2.00	2.21	8.45E-1	8.749E-1	10.57	±20	Linear
Endosulfan Sulfate	2.00	2.15	8.988E-1	8.534E-1	7.33	±20	Linear
Endrin	2.00	2.21	8.839E-1	8.752E-1	10.34	±20	Linear
Endrin Aldehyde	2.00	2.23	7.519E-1	7.595E-1	11.62	±20	Linear
Endrin Ketone	2.00	2.02	8.943E-1	8.098E-1	1.04	±20	Linear
Heptachlor	2.00	2.33	1.234E0	1.299E0	16.47	±20	Linear
Heptachlor Epoxide	2.00	2.28	1.152E0	1.158E0	13.83	±20	Linear
Methoxychlor	2.00	2.06	2.515E-1	2.594E-1	3.15	±20	Average RF
Toxaphene	100	101			0.650	±20	NA

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Toxaphene {1}	100	104	1.098E-2	1.138E-2	3.60	±100	Average RF
Toxaphene {2}	100	95.0	1.096E-2	1.041E-2	-5.030	±100	Average RF
Toxaphene {3}	100	103	1.742E-2	1.798E-2	3.20	±100	Average RF

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Verification Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB XLB

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Toxaphene {4}	100	99.9	1.284E-2	1.283E-2	-0.111	±100	Average RF
Toxaphene {5}	100	99.5	1.717E-2	1.709E-2	-0.472	±100	Average RF
Toxaphene {6}	100	103	2.177E-2	2.236E-2	2.71	±100	Average RF

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Verification Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB-35MS

#	Lab Code	Sample Name	File Location	Acquisition Date
14	KC2300233-14	24 ICV 2 PPB GCPS9-15I	J:\GC38\DATA\030823ICAL\0308F011.D	03/08/2023 23:12
22	KC2300233-22	PERTH ICV 25 PPB GSP9-24F	J:\GC38\DATA\030823ICAL\0308F019.D	03/09/2023 05:06
23	KC2300233-23	MISC ICV 2 PPB GCPS9-16C	J:\GC38\DATA\030823ICAL\0308F020.D	03/09/2023 05:50
30	KC2300233-30	TOX ICV 100 PPB GCPS9-22I @5X	J:\GC38\DATA\030823ICAL\0308F027.D	03/09/2023 11:01
38	KC2300233-38	CHLOR ICV 50 PPB GCPS9-24H	J:\GC38\DATA\030823ICAL\0308F035.D	03/09/2023 17:58
07	KC2300233-07	8081 ICV 2 PPB GCPS9-22B	J:\GC38\DATA\040323ICAL\0403F011.D	04/03/2023 19:20

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Aldrin	2.00	2.08	1.257E0	1.306E0	3.93	±20	Average RF
alpha-BHC	2.00	2.14	1.355E0	1.452E0	7.19	±20	Average RF
beta-BHC	2.00	2.16	6.843E-1	7.391E-1	8.01	±20	Average RF
delta-BHC	2.00	2.29	1.186E0	1.287E0	14.59	±20	Linear
gamma-BHC (Lindane)	2.00	2.22	1.356E0	1.348E0	11.14	±20	Linear
cis-Chlordane	2.00	2.14	1.216E0	1.301E0	7.05	±20	Average RF
trans-Chlordane	2.00	2.12	1.217E0	1.289E0	5.93	±20	Average RF
4,4'-DDD	2.00	2.05	8.7E-1	8.919E-1	2.52	±20	Average RF
4,4'-DDE	2.00	2.14	1.156E0	1.237E0	6.99	±20	Average RF
4,4'-DDT	2.00	1.85	9.725E-1	7.98E-1	-7.288	±20	Linear
Dieldrin	2.00	2.15	1.201E0	1.173E0	7.58	±20	Linear
Endosulfan I	2.00	2.12	1.092E0	1.156E0	5.89	±20	Average RF
Endosulfan II	2.00	2.22	1.057E0	1.095E0	10.82	±20	Linear
Endosulfan Sulfate	2.00	2.30	1.098E0	1.149E0	15.15	±20	Linear
Endrin	2.00	2.08	9.729E-1	1.01E0	3.77	±20	Average RF
Endrin Aldehyde	2.00	2.19	9.023E-1	9.006E-1	9.61	±20	Linear
Endrin Ketone	2.00	2.03	1.301E0	1.118E0	1.44	±20	Linear
Heptachlor	2.00	2.11	1.287E0	1.36E0	5.63	±20	Average RF
Heptachlor Epoxide	2.00	2.06	1.207E0	1.241E0	2.81	±20	Average RF
Methoxychlor	2.00	2.05	4.047E-1	4.143E-1	2.35	±20	Average RF
Toxaphene	100	93.8			-6.235	±20	NA

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Toxaphene {1}	100	94.3	2.092E-2	1.973E-2	-5.695	±100	Average RF
Toxaphene {2}	100	94.9	1.627E-2	1.544E-2	-5.102	±100	Average RF
Toxaphene {3}	100	94.8	2.026E-2	1.92E-2	-5.217	±100	Average RF

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 3/8/2023

Initial Calibration Verification Summary
Low Level Organochlorine Pesticides by GC

Calibration ID: KC2300233
Instrument ID: K-GC-38

Signal ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Toxaphene {4}	100	92.1	1.495E-2	1.378E-2	-7.873	±100	Average RF
Toxaphene {5}	100	95.0	2.278E-2	2.164E-2	-5.009	±100	Average RF
Toxaphene {6}	100	91.5	2.79E-2	2.552E-2	-8.515	±100	Average RF

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Service Request: K2303523
Date Analyzed: 04/12/23 13:15

Continuing Calibration Verification (CCV) Summary
Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
File ID: I:\GC38\DATA\041023B\0410F058.D\
Signal ID: DB-35MS

Calibration Date: 3/8/2023
Calibration ID: KC2300233
Analysis Lot: 801556
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Aldrin	2.00	1.85	1.2567	1.1609	-7.6	NA	±20	Average RF
alpha-BHC	2.00	1.79	1.3546	1.2144	-10.4	NA	±20	Average RF
beta-BHC	2.00	1.87	0.6843	0.6408	-6.4	NA	±20	Average RF
delta-BHC	2.00	1.95	1.186	1.092	NA	-2.8	±20	Linear
gamma-BHC (Lindane)	2.00	1.91	1.3555	1.1689	NA	-4.4	±20	Linear
cis-Chlordane	2.00	1.92	1.2155	1.1641	-4.2	NA	±20	Average RF
trans-Chlordane	2.00	1.95	1.2171	1.184	-2.7	NA	±20	Average RF
4,4'-DDD	2.00	1.80	0.87	0.7826	-10.0	NA	±20	Average RF
4,4'-DDE	2.00	1.99	1.1565	1.1526	-0.3	NA	±20	Average RF
4,4'-DDT	2.00	1.86	0.9725	0.8004	NA	-7.0	±20	Linear
Dieldrin	2.00	1.91	1.2007	1.0461	NA	-4.7	±20	Linear
Endosulfan I	2.00	1.88	1.0918	1.0257	-6.1	NA	±20	Average RF
Endosulfan II	2.00	2.03	1.0575	1.0062	NA	1.5	±20	Linear
Endosulfan Sulfate	2.00	2.10	1.0975	1.0514	NA	4.9	±20	Linear
Endrin	2.00	1.92	0.9729	0.936	-3.8	NA	±20	Average RF
Endrin Aldehyde	2.00	1.91	0.9023	0.792	NA	-4.4	±20	Linear
Endrin Ketone	2.00	1.97	1.3005	1.0876	NA	-1.6	±20	Linear
Heptachlor	2.00	1.90	1.2872	1.2199	-5.2	NA	±20	Average RF
Heptachlor Epoxide	2.00	1.89	1.2068	1.1407	-5.5	NA	±20	Average RF
Methoxychlor	2.00	2.17	0.4047	0.4396	8.6	NA	±20	Average RF
Toxaphene	100	89.3	NA	NA	NA	NA	±20	

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Toxaphene {1}	100	85.8	0.0209	0.0179	-14.2	NA	±100	Average RF
Toxaphene {2}	100	106	0.0163	0.0172	5.5	NA	±100	Average RF
Toxaphene {3}	100	89.4	0.0203	0.0181	-10.6	NA	±100	Average RF
Toxaphene {4}	100	82.3	0.015	0.0123	-17.7	NA	±100	Average RF
Toxaphene {5}	100	84.6	0.0228	0.0193	-15.4	NA	±100	Average RF
Toxaphene {6}	100	88.1	0.0279	0.0246	-11.9	NA	±100	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	2.00	1.97	1.1483	1.1334	-1.3	NA	±20	Average RF
Tetrachloro-m-xylene	2.00	2.11	1.5287	1.613	5.5	NA	±20	Average RF

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Service Request: K2303523
Date Analyzed: 04/12/23 13:15

Continuing Calibration Verification (CCV) Summary
Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
File ID: I:\GC38\DATA\041023B\0410F058.D\
Signal ID: DB XLB

Calibration Date: 3/8/2023
Calibration ID: KC2300233
Analysis Lot: 801556
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Aldrin	2.00	1.89	1.1353	1.0703	-5.7	NA	±20	Average RF
alpha-BHC	2.00	1.90	1.3136	1.1749	NA	-5.2	±20	Linear
beta-BHC	2.00	2.15	0.6839	0.6465	NA	7.4	±20	Linear
delta-BHC	2.00	2.00	1.131	1.0355	NA	0.1	±20	Linear
gamma-BHC (Lindane)	2.00	2.05	1.2007	1.1198	NA	2.5	±20	Linear
cis-Chlordane	2.00	2.17	1.0379	1.0536	NA	8.6	±20	Linear
trans-Chlordane	2.00	2.24	1.097	1.1055	NA	11.8	±20	Linear
4,4'-DDD	2.00	2.01	0.835	0.741	NA	0.6	±20	Linear
4,4'-DDE	2.00	1.95	1.0081	0.9818	-2.6	NA	±20	Average RF
4,4'-DDT	2.00	2.15	0.6416	0.613	NA	7.7	±20	Linear
Dieldrin	2.00	2.13	1.0503	0.9832	NA	6.6	±20	Linear
Endosulfan I	2.00	2.04	0.9338	0.9534	2.1	NA	±20	Average RF
Endosulfan II	2.00	2.15	0.845	0.8494	NA	7.3	±20	Linear
Endosulfan Sulfate	2.00	2.08	0.8988	0.8296	NA	4.2	±20	Linear
Endrin	2.00	2.12	0.8839	0.8443	NA	6.2	±20	Linear
Endrin Aldehyde	2.00	2.08	0.7519	0.7114	NA	4.1	±20	Linear
Endrin Ketone	2.00	1.98	0.8943	0.7945	NA	-1.0	±20	Linear
Heptachlor	2.00	2.19	1.2339	1.2241	NA	9.4	±20	Linear
Heptachlor Epoxide	2.00	2.13	1.1522	1.0904	NA	6.7	±20	Linear
Methoxychlor	2.00	2.73	0.2515	0.3428	36.3*	NA	±20	Average RF
Toxaphene	100	89.4	NA	NA	NA	NA	±20	

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Toxaphene {1}	100	92.5	0.011	0.0102	-7.5	NA	±100	Average RF
Toxaphene {2}	100	110	0.011	0.012	9.9	NA	±100	Average RF
Toxaphene {3}	100	105	0.0174	0.0183	4.9	NA	±100	Average RF
Toxaphene {4}	100	81.4	0.0128	0.0105	-18.6	NA	±100	Average RF
Toxaphene {5}	100	71.3	0.0172	0.0122	-28.7	NA	±100	Average RF
Toxaphene {6}	100	76.3	0.0218	0.0166	-23.7	NA	±100	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	2.00	2.18	0.7856	0.8545	8.8	NA	±20	Average RF
Tetrachloro-m-xylene	2.00	1.94	1.3619	1.3174	-3.3	NA	±20	Average RF

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Service Request:K2303523

Analysis Run Log
Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B

Analysis Lot:801556
Instrument ID:K-GC-38

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\GC38\DATA\041023B\0410F057.D\	Performance Evaluation	KQ2307176-03	4/12/2023	12:29:00	
I:\GC38\DATA\041023B\0410F058.D\	Continuing Calibration Verification	KQ2307176-01	4/12/2023	13:15:00	
I:\GC38\DATA\041023B\0410F059.D\	Continuing Calibration Verification	KQ2307176-01	4/12/2023	14:00:00	
I:\GC38\DATA\041023B\0410F061.D\	Continuing Calibration Blank	KQ2307176-04	4/12/2023	15:31:00	
I:\GC38\DATA\041023B\0410F062.D\	Method Blank	KQ2305743-01	4/12/2023	16:17:00	
I:\GC38\DATA\041023B\0410F063.D\	Lab Control Sample	KQ2305743-02	4/12/2023	17:02:00	
I:\GC38\DATA\041023B\0410F064.D\	Duplicate Lab Control Sample	KQ2305743-03	4/12/2023	17:48:00	
I:\GC38\DATA\041023B\0410F065.D\	ZZZZZZZZ	ZZZZZZZZ	4/12/2023	18:33:00	
I:\GC38\DATA\041023B\0410F066.D\	ZZZZZZZZ	ZZZZZZZZ	4/12/2023	19:19:00	
I:\GC38\DATA\041023B\0410F067.D\	GS-032323-53	K2303523-001	4/12/2023	20:04:00	

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Prep Summary Report

Client: Anchor QEA, LLC

Service Request: K2303523

Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Sample Matrix: Water

Low Level Organochlorine Pesticides by GC

Prep Method: EPA 3511

Extraction Lot: 417398

Analytical Method: 8081B

Extraction Date: 03/29/23 16:01

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
GS-032323-53	K2303523-001	3/23/23	3/24/23	100 mL	5 mL	
Method Blank	KQ2305743-01MB	NA	NA	100 mL	5 mL	
Lab Control Sample	KQ2305743-02LCS	NA	NA	100 mL	5 mL	
Duplicate Lab Control Sample	KQ2305743-03DLCS	NA	NA	100 mL	5 mL	



Chlorinated Herbicides by GC

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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Analytical Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water

Sample Name: GS-032323-53
Lab Code: K2303523-001

Service Request: K2303523
Date Collected: 03/23/23 10:15
Date Received: 03/24/23 14:18

Units: ug/L
Basis: NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.036 JP	0.20	0.033	1	05/10/23 15:21	3/30/23	*
2,4,5-TP (Silvex)	ND U	0.20	0.045	1	05/10/23 15:21	3/30/23	*
2,4-D	ND Ui	0.40	0.048	1	05/10/23 15:21	3/30/23	*
2,4-DB	0.28 J	0.40	0.10	1	05/10/23 15:21	3/30/23	*
Dalapon	ND Ui	0.86	0.86	1	05/10/23 15:21	3/30/23	*
Dicamba	ND U	0.20	0.025	1	05/10/23 15:21	3/30/23	*
Dichlorprop	ND Ui	0.40	0.079	1	05/10/23 15:21	3/30/23	*
Dinoseb	ND U	0.20	0.015	1	05/10/23 15:21	3/30/23	*
MCPA	ND U	100	8.7	1	05/10/23 15:21	3/30/23	*
MCP	ND U	100	14	1	05/10/23 15:21	3/30/23	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	62	17 - 113	05/10/23 15:21	

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Analytical Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2305790-01

Service Request: K2303523
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	ND U	0.19	0.033	1	05/10/23 14:09	3/30/23	*
2,4,5-TP (Silvex)	ND U	0.19	0.045	1	05/10/23 14:09	3/30/23	*
2,4-D	ND U	0.38	0.036	1	05/10/23 14:09	3/30/23	*
2,4-DB	ND U	0.38	0.23	1	05/10/23 14:09	3/30/23	*
Dalapon	ND U	0.38	0.28	1	05/10/23 14:09	3/30/23	*
Dicamba	ND U	0.19	0.025	1	05/10/23 14:09	3/30/23	*
Dichlorprop	ND U	0.38	0.030	1	05/10/23 14:09	3/30/23	*
Dinoseb	ND U	0.19	0.015	1	05/10/23 14:09	3/30/23	*
MCPA	ND U	95	8.7	1	05/10/23 14:09	3/30/23	*
MCP	ND U	95	14	1	05/10/23 14:09	3/30/23	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	43	17 - 113	05/10/23 14:09	

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Confirmation Results

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Matrix: Water
Sample Name: GS-032323-53
Lab Code: K2303523-001

Service Request: K2303523
Date Collected: 03/23/23 10:15
Date Received: 3/24/23

Units: ug/L

Basis: NA

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	0.033	0.036	0.055	42	JP	1	05/10/23 15:21
2,4-DB	0.10	0.28	0.34	19	J	1	05/10/23 15:21

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Confirmation Results

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Matrix: Water

Service Request: K2303523

Date Collected: NA

Date Received:

Sample Name: Lab Control Sample

Lab Code: KQ2305790-02

Units: ug/L

Basis: NA

Chlorinated Herbicides by GC

Analytical Method: 8151A

Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	0.033	2.08	2.34	12		1	05/10/23 14:33
2,4,5-TP (Silvex)	0.045	1.93	1.95	1		1	05/10/23 14:33
2,4-D	0.036	1.81	1.83	1		1	05/10/23 14:33
2,4-DB	0.10	2.20	3.86	55	P	1	05/10/23 14:33
Dalapon	0.28	1.61	2.08	25		1	05/10/23 14:33
Dicamba	0.025	1.96	2.02	3		1	05/10/23 14:33
Dichlorprop	0.030	2.00	2.02	<1		1	05/10/23 14:33
Dinoseb	0.015	1.82	1.91	5		1	05/10/23 14:33
MCPA	8.7	182	192	5		1	05/10/23 14:33
MCP	14	172	173	<1		1	05/10/23 14:33

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dba ALS Environmental

Confirmation Results

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Matrix: Water

Service Request: K2303523

Date Collected: NA

Date Received:

Sample Name: Duplicate Lab Control Sample

Lab Code: KQ2305790-03

Units: ug/L

Basis: NA

Chlorinated Herbicides by GC

Analytical Method: 8151A

Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	0.033	2.15	2.34	8		1	05/10/23 14:57
2,4,5-TP (Silvex)	0.045	1.99	2.05	3		1	05/10/23 14:57
2,4-D	0.036	1.84	1.90	3		1	05/10/23 14:57
2,4-DB	0.10	2.48	3.52	35		1	05/10/23 14:57
Dalapon	0.28	1.25	1.47	16		1	05/10/23 14:57
Dicamba	0.025	2.01	2.11	5		1	05/10/23 14:57
Dichlorprop	0.030	2.10	2.13	1		1	05/10/23 14:57
Dinoseb	0.015	1.98	2.05	3		1	05/10/23 14:57
MCPA	8.7	198	202	2		1	05/10/23 14:57
MCP	14	189	207	9		1	05/10/23 14:57

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water

Service Request: K2303523

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid
		17 - 113
GS-032323-53	K2303523-001	62
Method Blank	KQ2305790-01	43
Lab Control Sample	KQ2305790-02	73
Duplicate Lab Control Sample	KQ2305790-03	75

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water

Service Request: K2303523
Date Analyzed: 05/10/23
Date Extracted: 03/30/23

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Units: ug/L
Basis: NA
Analysis Lot: 804089

Lab Control Sample
KQ2305790-02

Duplicate Lab Control Sample
KQ2305790-03

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	2.08	2.50	83	2.15	2.50	86	30-120	3	30
2,4,5-TP (Silvex)	1.93	2.50	77	1.99	2.50	80	37-114	3	30
2,4-D	1.81	2.50	72	1.84	2.50	74	35-110	2	30
2,4-DB	2.20 P	2.50	88	2.48	2.50	99	10-134	12	30
Dalapon	1.61	2.50	64	1.25	2.50	50	14-110	25	30
Dicamba	1.96	2.50	78	2.01	2.50	81	30-108	3	30
Dichlorprop	2.00	2.50	80	2.10	2.50	84	29-104	5	30
Dinoseb	1.82	2.50	73	1.98	2.50	79	11-105	8	30
MCPA	182	250	73	198	250	79	21-117	8	30
MCP	172	250	69	189	250	75	16-141	9	30

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water

Service Request: K2303523
Date Analyzed: 05/10/23 14:09
Date Extracted: 03/30/23

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name: Method Blank **Instrument ID:** K-GC-34
Lab Code: KQ2305790-01 **File ID:** J:\GC34\DATA\050923-HB\05090000052.D\
Analysis Method: 8151A **Analysis Lot:** 804089
Prep Method: Method **Extraction Lot:** 417439

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2305790-02	J:\GC34\DATA\050923-HB\05090000053.D\	05/10/23 14:33
Duplicate Lab Control Sample	KQ2305790-03	J:\GC34\DATA\050923-HB\05090000054.D\	05/10/23 14:57
GS-032323-53	K2303523-001	J:\GC34\DATA\050923-HB\05090000055.D\	05/10/23 15:21

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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H
Sample Matrix: Water

Service Request: K2303523
Date Analyzed: 05/10/23 14:33
Date Extracted: 03/30/23

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name: Lab Control Sample
Lab Code: KQ2305790-02
Analysis Method: 8151A
Prep Method: Method

Instrument ID: K-GC-34
File ID: J:\GC34\DATA\050923-HB\05090000053.D\
Analysis Lot: 804089
Extraction Lot: 417439

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2305790-01	J:\GC34\DATA\050923-HB\05090000052.D\	05/10/23 14:09
Duplicate Lab Control Sample	KQ2305790-03	J:\GC34\DATA\050923-HB\05090000054.D\	05/10/23 14:57
GS-032323-53	K2303523-001	J:\GC34\DATA\050923-HB\05090000055.D\	05/10/23 15:21

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 5/9/2023

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2300309
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2300309-01	PENTA02-68B 10PPB	J:\GC34\DATA\050823A-HB\05080000050.D	05/09/2023 11:03
02	KC2300309-02	PENTA02-68C 25PPB	J:\GC34\DATA\050823A-HB\05080000051.D	05/09/2023 11:27
03	KC2300309-03	PENTA02-68D 75PPB	J:\GC34\DATA\050823A-HB\05080000052.D	05/09/2023 11:51
04	KC2300309-04	PENTA02-67K 100PPB	J:\GC34\DATA\050823A-HB\05080000053.D	05/09/2023 12:15
05	KC2300309-05	PENTA02-68E 125PPB	J:\GC34\DATA\050823A-HB\05080000054.D	05/09/2023 12:38
06	KC2300309-06	PENTA02-68F 150PPB	J:\GC34\DATA\050823A-HB\05080000055.D	05/09/2023 13:02
07	KC2300309-07	PENTA02-68G 175PPB	J:\GC34\DATA\050823A-HB\05080000056.D	05/09/2023 13:26
08	KC2300309-08	PENTA02-68H 200PPB	J:\GC34\DATA\050823A-HB\05080000057.D	05/09/2023 13:50

Analyte

2,4,5-T

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.480	2.591E6	02	23.700	3.235E6	03	71.100	3.635E6	04	94.800	3.878E6
05	118.490	3.93E6	06	142.190	3.978E6	07	165.890	4.003E6	08	189.590	4.048E6

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	3.239E6	02	23.760	3.883E6	03	71.300	4.161E6	04	95.100	4.506E6
05	118.820	4.586E6	06	142.580	4.626E6	07	166.340	4.662E6	08	190.100	4.717E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	8.512E5	02	23.510	9.545E5	03	70.500	9.724E5	04	94.000	1.028E6
05	117.540	1.044E6	06	141.050	1.047E6	07	164.560	1.049E6	08	188.060	1.05E6

2,4-DB

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.470	2.416E5	02	23.670	3.168E5	03	71.000	4.291E5	04	94.700	4.48E5
05	118.330	4.513E5	06	142.000	4.649E5	07	165.670	4.73E5	08	189.340	4.932E5

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	8.598E5	02	22.550	9.095E5	03	67.600	8.97E5	04	90.200	9.551E5
05	112.730	9.731E5	06	135.280	9.716E5	07	157.830	9.757E5	08	180.370	9.825E5

Dalapon

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.110	1.12E6	02	22.770	1.174E6	03	68.300	1.157E6	04	91.100	1.179E6
05	113.830	1.229E6	06	136.600	1.219E6	07	159.360	1.22E6	08	182.130	1.216E6

Dicamba

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	2.368E6	02	23.510	2.823E6	03	70.500	3.078E6	04	94.000	3.335E6
05	117.540	3.42E6	06	141.050	3.439E6	07	164.560	3.47E6	08	188.060	3.517E6

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 5/9/2023

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2300309
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides

Analyte

Dichlorprop

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.440	7.643E5	02	23.590	8.265E5	03	70.800	8.273E5	04	94.400	9.016E5
05	117.960	9.126E5	06	141.550	9.121E5	07	165.140	9.156E5	08	188.730	9.231E5

Dinoseb

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.450	2.484E6	02	23.620	2.781E6	03	70.900	2.841E6	04	94.500	3.048E6
05	118.100	3.056E6	06	141.720	3.073E6	07	165.340	3.084E6	08	188.960	3.111E6

MCPA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	934.770	7.292E3	02	2336.600	6.593E3	03	7010.000	5.413E3	04	9346.000	5.458E3
05	11683.010	5.437E3	06	14019.610	5.426E3	07	16356.210	5.287E3	08	18692.820	5.289E3

MCPP

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	938.770	4.218E3	02	2346.620	4.478E3	03	7040.000	4.034E3	04	9386.000	4.189E3
05	11733.100	4.164E3	06	14079.720	4.13E3	07	16426.340	3.917E3	08	18772.960	4.104E3

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 5/9/2023

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2300309
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-T	TRG	Average RF	% RSD	13.9	20	3.662E6	
2,4,5-TP (Silvex)	TRG	Average RF	% RSD	12.0	20	4.298E6	
2,4-D	TRG	Average RF	% RSD	7.1	20	9.995E5	
2,4-DB	TRG	Linear	R2	0.9981	0.99	4.147E5	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	4.9	20	9.405E5	
Dalapon	TRG	Average RF	% RSD	3.2	20	1.189E6	
Dicamba	TRG	Average RF	% RSD	12.7	20	3.181E6	
Dichlorprop	TRG	Average RF	% RSD	6.8	20	8.729E5	
Dinoseb	TRG	Average RF	% RSD	7.5	20	2.935E6	
MCPA	TRG	Average RF	% RSD	12.9	20	5.774E3	
MCP	TRG	Average RF	% RSD	3.9	20	4.154E3	

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 5/9/2023

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2300309
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2300309-01	PENTA02-68B 10PPB	J:\GC34\DATA\050823A-HB\05080000050.D	05/09/2023 11:03
02	KC2300309-02	PENTA02-68C 25PPB	J:\GC34\DATA\050823A-HB\05080000051.D	05/09/2023 11:27
03	KC2300309-03	PENTA02-68D 75PPB	J:\GC34\DATA\050823A-HB\05080000052.D	05/09/2023 11:51
04	KC2300309-04	PENTA02-67K 100PPB	J:\GC34\DATA\050823A-HB\05080000053.D	05/09/2023 12:15
05	KC2300309-05	PENTA02-68E 125PPB	J:\GC34\DATA\050823A-HB\05080000054.D	05/09/2023 12:38
06	KC2300309-06	PENTA02-68F 150PPB	J:\GC34\DATA\050823A-HB\05080000055.D	05/09/2023 13:02
07	KC2300309-07	PENTA02-68G 175PPB	J:\GC34\DATA\050823A-HB\05080000056.D	05/09/2023 13:26
08	KC2300309-08	PENTA02-68H 200PPB	J:\GC34\DATA\050823A-HB\05080000057.D	05/09/2023 13:50

Analyte

2,4,5-T

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.480	3.938E5	02	23.700	4.253E5	03	71.100	4.309E5	04	94.800	4.511E5
05	118.490	4.516E5	06	142.190	4.532E5	07	165.890	4.533E5	08	189.590	4.564E5

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	5.13E5	02	23.760	5.29E5	03	71.300	5.116E5	04	95.100	5.407E5
05	118.820	5.46E5	06	142.580	5.463E5	07	166.340	5.46E5	08	190.100	5.486E5

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	1.404E5	02	23.510	1.475E5	03	70.500	1.36E5	04	94.000	1.384E5
05	117.540	1.37E5	06	141.050	1.354E5	07	164.560	1.341E5	08	188.060	1.334E5

2,4-DB

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.470	4.08E4	02	23.670	4.841E4	03	71.000	5.934E4	04	94.700	6.043E4
05	118.330	5.876E4	06	142.000	5.904E4	07	165.670	5.874E4	08	189.340	5.988E4

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	1.399E5	02	22.550	1.404E5	03	67.600	1.25E5	04	90.200	1.296E5
05	112.730	1.291E5	06	135.280	1.274E5	07	157.830	1.267E5	08	180.370	1.265E5

Dalapon

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.110	2.189E5	02	22.770	2.174E5	03	68.300	1.974E5	04	91.100	1.957E5
05	113.830	1.999E5	06	136.600	1.963E5	07	159.360	1.943E5	08	182.130	1.929E5

Dicamba

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	4.322E5	02	23.510	4.416E5	03	70.500	4.32E5	04	94.000	4.603E5
05	117.540	4.667E5	06	141.050	4.653E5	07	164.560	4.666E5	08	188.060	4.712E5

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 5/9/2023

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2300309
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

Analyte

Dichlorprop

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.440	1.305E5	02	23.590	1.307E5	03	70.800	1.167E5	04	94.400	1.205E5
05	117.960	1.198E5	06	141.550	1.181E5	07	165.140	1.174E5	08	188.730	1.169E5

Dinoseb

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.450	3.917E5	02	23.620	3.951E5	03	70.900	3.674E5	04	94.500	3.832E5
05	118.100	3.806E5	06	141.720	3.783E5	07	165.340	3.76E5	08	188.960	3.767E5

MCPA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	934.770	1.132E3	02	2336.600	1.009E3	03	7010.000	791.2	04	9346.000	771.7
05	11683.010	745.6	06	14019.610	718.8	07	16356.210	706	08	18692.820	692.2

MCPP

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	938.770	819.4	02	2346.620	741.1	03	7040.000	607.5	04	9386.000	595.3
05	11733.100	578.2	06	14079.720	563.3	07	16426.340	554.8	08	18772.960	544.5

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 5/9/2023

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2300309
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-T	TRG	Average RF	% RSD	4.9	20	4.395E5	
2,4,5-TP (Silvex)	TRG	Average RF	% RSD	2.9	20	5.352E5	
2,4-D	TRG	Average RF	% RSD	3.3	20	1.377E5	
2,4-DB	TRG	Average RF	% RSD	12.8	20	5.568E4	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	4.7	20	1.306E5	
Dalapon	TRG	Average RF	% RSD	5.2	20	2.016E5	
Dicamba	TRG	Average RF	% RSD	3.6	20	4.545E5	
Dichlorprop	TRG	Average RF	% RSD	4.9	20	1.213E5	
Dinoseb	TRG	Average RF	% RSD	2.3	20	3.811E5	
MCPA	TRG	Linear	R2	0.9972	0.99	820.8	
MCPP	TRG	Average RF	% RSD	16.0	20	625.5	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 5/9/2023

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2300309
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2300309-09	PENTA02-67D ICV	J:\GC34\DATA\050823A-HB\05080000059.D	05/09/2023 14:38

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-T	94.8	105	3.662E6	4.062E6	10.91	±20	Average RF
2,4,5-TP (Silvex)	95.1	99.1	4.298E6	4.477E6	4.17	±20	Average RF
2,4-D	94.0	88.9	9.995E5	9.448E5	-5.464	±20	Average RF
2,4-DB	94.7	105	4.147E5	5.126E5	11.39	±20	Linear
Dalapon	91.1	92.1	1.189E6	1.202E6	1.05	±20	Average RF
Dicamba	94.0	103	3.181E6	3.495E6	9.86	±20	Average RF
Dichlorprop	94.4	94.0	8.729E5	8.689E5	-0.463	±20	Average RF
Dinoseb	94.5	102	2.935E6	3.183E6	8.46	±20	Average RF
MCPA	9350	9380	5.774E3	5.793E3	0.322	±20	Average RF
MCPP	9390	9910	4.154E3	4.385E3	5.56	±20	Average RF

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM

Service Request: K2303523
Calibration Date: 5/9/2023

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2300309
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2300309-09	PENTA02-67D ICV	J:\GC34\DATA\050823A-HB\05080000059.D	05/09/2023 14:38

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-T	94.8	101	4.395E5	4.7E5	6.94	±20	Average RF
2,4,5-TP (Silvex)	95.1	95.3	5.352E5	5.362E5	0.190	±20	Average RF
2,4-D	94.0	87.0	1.377E5	1.274E5	-7.500	±20	Average RF
2,4-DB	94.7	107	5.568E4	6.284E4	12.87	±20	Average RF
Dalapon	91.1	89.1	2.016E5	1.972E5	-2.172	±20	Average RF
Dicamba	94.0	99.2	4.545E5	4.796E5	5.52	±20	Average RF
Dichlorprop	94.4	92.3	1.213E5	1.187E5	-2.176	±20	Average RF
Dinoseb	94.5	98.6	3.811E5	3.976E5	4.33	±20	Average RF
MCPA	9350	10100	8.208E2	8.014E2	8.42	±20	Linear
MCPP	9390	9140	6.255E2	6.09E2	-2.640	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Service Request: K2303523
Date Analyzed: 05/10/23 06:37

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\050923-HB\05090000033.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 5/9/2023
Calibration ID: KC2300309
Analysis Lot: 804089
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-T	94.8	105	3.662E6	4.039E6	10.3	NA	±20	Average RF
2,4,5-TP (Silvex)	95.1	112	4.298E6	5.04E6	17.3	NA	±20	Average RF
2,4-D	94.0	105	9.995E5	1.118E6	11.8	NA	±20	Average RF
2,4-DB	94.7	101	4.147E5	4.903E5	NA	6.8	±20	Linear
Dalapon	91.1	85.8	1.189E6	1.119E6	-5.9	NA	±20	Average RF
Dicamba	94.0	112	3.181E6	3.794E6	19.3	NA	±20	Average RF
Dichlorprop	94.4	112	8.729E5	1.039E6	19.0	NA	±20	Average RF
Dinoseb	94.5	109	2.935E6	3.376E6	15.0	NA	±20	Average RF
MCPA	9350	9930	5.774E3	6.138E3	6.3	NA	±20	Average RF
MCPP	9390	10500	4.154E3	4.657E3	12.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	90.2	108	9.405E5	1.128E6	19.9	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Service Request: K2303523
Date Analyzed: 05/10/23 06:37

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\050923-HB\05090000033.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 5/9/2023
Calibration ID: KC2300309
Analysis Lot: 804089
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-T	94.8	107	4.395E5	4.965E5	13.0	NA	±20	Average RF
2,4,5-TP (Silvex)	95.1	114	5.352E5	6.414E5	19.9	NA	±20	Average RF
2,4-D	94.0	107	1.377E5	1.562E5	13.4	NA	±20	Average RF
2,4-DB	94.7	110	5.568E4	6.439E4	15.7	NA	±20	Average RF
Dalapon	91.1	89.1	2.016E5	1.972E5	-2.2	NA	±20	Average RF
Dicamba	94.0	115	4.545E5	5.579E5	22.7*	NA	±20	Average RF
Dichlorprop	94.4	114	1.213E5	1.466E5	20.9*	NA	±20	Average RF
Dinoseb	94.5	111	3.811E5	4.483E5	17.6	NA	±20	Average RF
MCPA	9350	11300	820.7934	886.2606	NA	20.8*	±20	Linear
MCPP	9390	10700	625.5195	710.1722	13.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	90.2	111	1.306E5	1.601E5	22.6*	NA	±20	Average RF

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dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Service Request: K2303523
Date Analyzed: 05/10/23 16:32

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\050923-HB\05090000058.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 5/9/2023
Calibration ID: KC2300309
Analysis Lot: 804089
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-T	94.8	108	3.662E6	4.177E6	14.1	NA	±20	Average RF
2,4,5-TP (Silvex)	95.1	116	4.298E6	5.241E6	22.0*	NA	±20	Average RF
2,4-D	94.0	109	9.995E5	1.156E6	15.7	NA	±20	Average RF
2,4-DB	94.7	103	4.147E5	4.997E5	NA	8.7	±20	Linear
Dalapon	91.1	86.6	1.189E6	1.131E6	-4.9	NA	±20	Average RF
Dicamba	94.0	116	3.181E6	3.933E6	23.6*	NA	±20	Average RF
Dichlorprop	94.4	117	8.729E5	1.079E6	23.6*	NA	±20	Average RF
Dinoseb	94.5	112	2.935E6	3.487E6	18.8	NA	±20	Average RF
MCPA	9350	10500	5.774E3	6.459E3	11.9	NA	±20	Average RF
MCPP	9390	10600	4.154E3	4.694E3	13.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	90.2	109	9.405E5	1.141E6	21.3*	NA	±20	Average RF

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Service Request: K2303523
Date Analyzed: 05/10/23 16:32

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\050923-HB\05090000058.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 5/9/2023
Calibration ID: KC2300309
Analysis Lot: 804089
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-T	94.8	112	4.395E5	5.171E5	17.7	NA	±20	Average RF
2,4,5-TP (Silvex)	95.1	119	5.352E5	6.705E5	25.3*	NA	±20	Average RF
2,4-D	94.0	111	1.377E5	1.62E5	17.6	NA	±20	Average RF
2,4-DB	94.7	113	5.568E4	6.641E4	19.3	NA	±20	Average RF
Dalapon	91.1	90.8	2.016E5	2.008E5	-0.4	NA	±20	Average RF
Dicamba	94.0	119	4.545E5	5.753E5	26.6*	NA	±20	Average RF
Dichlorprop	94.4	119	1.213E5	1.524E5	25.6*	NA	±20	Average RF
Dinoseb	94.5	114	3.811E5	4.585E5	20.3	NA	±20	Average RF
MCPA	9350	11700	820.7934	916.043	NA	25.1*	±20	Linear
MCPP	9390	11200	625.5195	747.0679	19.4	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	90.2	115	1.306E5	1.661E5	27.2*	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Service Request:K2303523

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A

Analysis Lot:804089
Instrument ID:K-GC-34

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC34\DATA\050923-HB\05090000033.D\	Continuing Calibration Verification	KQ2308608-01	5/10/2023	06:37:31	
J:\GC34\DATA\050923-HB\05090000034.D\	Continuing Calibration Blank	KQ2308608-02	5/10/2023	07:01:22	
J:\GC34\DATA\050923-HB\05090000052.D\	Method Blank	KQ2305790-01	5/10/2023	14:09:57	*
J:\GC34\DATA\050923-HB\05090000053.D\	Lab Control Sample	KQ2305790-02	5/10/2023	14:33:42	*
J:\GC34\DATA\050923-HB\05090000054.D\	Duplicate Lab Control Sample	KQ2305790-03	5/10/2023	14:57:34	*
J:\GC34\DATA\050923-HB\05090000055.D\	GS-032323-53	K2303523-001	5/10/2023	15:21:22	*
J:\GC34\DATA\050923-HB\05090000056.D\	ZZZZZZZ	ZZZZZZZ	5/10/2023	15:45:03	
J:\GC34\DATA\050923-HB\05090000057.D\	ZZZZZZZ	ZZZZZZZ	5/10/2023	16:08:48	
J:\GC34\DATA\050923-HB\05090000058.D\	Continuing Calibration Verification	KQ2308608-03	5/10/2023	16:32:36	
J:\GC34\DATA\050923-HB\05090000059.D\	Continuing Calibration Blank	KQ2308608-04	5/10/2023	16:56:22	

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: Anchor QEA, LLC

Service Request: K2303523

Project: Gasco-CMMA 1Q 2022 GWM/000029-02.84 T-01.001 H

Sample Matrix: Water

Chlorinated Herbicides by GC

Prep Method: Method

Extraction Lot: 417439

Analytical Method: 8151A

Extraction Date: 03/30/23 15:00

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
GS-032323-53	K2303523-001	3/23/23	3/24/23	1000 mL	20 mL	
Method Blank	KQ2305790-01MB	NA	NA	1050.0000	20 mL	
Lab Control Sample	KQ2305790-02LCS	NA	NA	1000 mL	20 mL	
Duplicate Lab Control Sample	KQ2305790-03DLCS	NA	NA	1000 mL	20 mL	



Raw Data

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



Low Level Organochlorine Pesticides by GC

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#: 417398

Team: Semivoa GC/CEHRENFIELD

Number of Copies to make: 1

Prep WorkFlow: OrgExtAq(7)

Prep Method: EPA 3511

Status: Prepped

Prep Date/Time: 3/29/23 16:01

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2305743-01	MB		8081B/Pest OC LL	5	Liquid	100mL	5.00mL	
2	KQ2305743-02	LCS		8081B/Pest OC LL	5	Liquid	100mL	5.00mL	
3	KQ2305743-03	DLCS		8081B/Pest OC LL	5	Liquid	100mL	5.00mL	
4	KQ2305743-04	LCS		8081B/Pest OC LL	5	Liquid	100mL	5.00mL	
5	KQ2305743-05	DLCS		8081B/Pest OC LL	5	Liquid	100mL	5.00mL	
6	K2303523-001	GS-032323-53	.04	8081B/Pest OC LL	7	Water	100mL	5.00mL	

Spiking Solutions

Name: 8081 MS Tox 20 ppm Inventory ID 227158 Logbook Ref: GCPS9-21K Expires On: 07/18/2023

KQ2305743-04 50.00µL KQ2305743-05 50.00µL

Name: 8081 MS 0.5ppm Inventory ID 227987 Logbook Ref: GCPS9-25F Expires On: 04/02/2023

KQ2305743-02 50.00µL KQ2305743-03 50.00µL

Name: 8081/8082 Surrogate 0.5ppm Inventory ID 228009 Logbook Ref: PCB9-26K Expires On: 09/09/2023

K2303523-001 50.00µL KQ2305743-01 50.00µL KQ2305743-02 50.00µL KQ2305743-03 50.00µL KQ2305743-04 50.00µL KQ2305743-05 50.00µL

Preparation Steps

Step: Extraction Step: Final Volume
 Started: 3/29/23 16:01 Started: 3/30/23 10:23
 Finished: 3/29/23 16:32 Finished: 3/30/23 10:23
 By: CEHRENFIELD By: CEHRENFIELD
 Comments Comments

Comments:

Reviewed By: Rayna Jones Date: 3/30/23

Chain of Custody

Relinquished By: 2/31 3/31/23 Date: 04.20.2023
 Received By: ML Date: 04.20.2023
 Extracts Examined
 Yes No

Preparation Information Benchsheet

Prep Run#: 417398

Team: Semiwoa GC/CEHRENFELD

Number of Copies to make: 1

Prep WorkFlow: OrgExtAq(7)

Prep Method:

Status: Draft

Prep Date/Time: 3/29/23 11:36 AM

#	Lab Code	Client ID	B#	Method /Test	Matrix	Amt, Ext. ML	pH	Int. Vol	Final Vol ML	Surr Amt PL	Spike Amt PL
1	KQ2305743-01	MB	✓	8081B / Pest OC LL	Liquid	200	5	1114	5	50	50
2	KQ2305743-02	LCS	✓	8081B / Pest OC LL	Liquid		5				50
3	KQ2305743-03	DLCS	✓	8081B / Pest OC LL	Liquid		5				50
4	KQ2305743-04	LCS	✓	8081B / Pest OC LL	Liquid		5				50
5	KQ2305743-05	DLCS	✓	8081B / Pest OC LL	Liquid		5				50
6	K2303523-001	GS-032323-53	✓	8081B / Pest OC LL	Water		7				50

Comments:

Surrogate ID: PC69-26M 0.5 ppm 9.9.23

Spike ID: Q1 45PS9-25F 0.5 ppm 4.2.23

Witnessed By: NeraK Pettegion

Tox 64CPS9-21K 0.5 ppm 7.18.23

Analyst: CDE

Assisted By:

ALS Environmental Extraction Analyst Notes

Service Request: _____ Prep Group: _____

Topic	Notes	Initials/Date
No Anomalies: <input type="checkbox"/>		
Sample Anomalies: <input type="checkbox"/>		
Organics Present (sticks, leafs, bugs): <input type="checkbox"/>		
Fuel Odors: <input type="checkbox"/>		
Sulfur Odors, Precipitate: <input type="checkbox"/>		
General Notes:	Insufficient Volume for ms/DMS	CAE 3/29/23

ALS Environmental
Appendix from EXT-3511 Extracting Pest/PCB/PAH in Water
EPA Method 3511

Service Request # K2303523 Work Group # Pest: K@2305743

PCB: -

PAH: -

Hexane Lot # 2280762007

Syringe Volume(s) and ID: 60 µL - 64 pH Strip Lot # 234921V

Extraction Start (time/date/initial): 10:01 3/29/23 CAE

Extraction Stop (time/date/initial): 11:30 3/29/23 CAE

NaCL Lot# 281955 Sulfate Lot # 2022070860

Carbon Clean-up (Ext-Car)(time/date/initial): - Carbon Lot # -

1:1 DCM/Hexane Lot # -

Turbovap (time/date/initial): - Turbovap ID: -

Turbovap Temp: - °C Correction factor: - °C Adjusted Temp: - °C

Sulfuric Acid Clean-up (3665) (time/date/initial): - Acid Lot # -

Other Clean-up (type/time/date/initial): -

Lot# -

Pipette (5 mL) Lot # 24321647

Pipette (2 mL) Lot # -

Pipette (1mL) 28020645

Completed By (time/date/initial): -

Pest Vial: Amber

Vial Storage: Pollution JA-J6

PCB Vial: -

Vial Storage: -

PAH Vial: -

Vial Storage: -

Archived Extract Storage: -

Additional Comments: -

Bench Sheet Review Check List

- ☐ Hold times met; if no, reason: _____
- ☐ Prep date, time, method, department, product code correct
- ☐ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
- ☐ 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
- ☐ Extract storage recorded
- ☐ Additional prep sheet completely filled out (NA or line out blanks)
- ☐ All clean-ups have been noted on additional prep sheet

Validation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File: I:\GC38\DATA\041023B\0410F067.D\
Lab ID: K2303523-001
RunType: N/A
Matrix: Water

Date Acquired: 4/12/23 20:04:00
Batch ID: 801556
Analysis Method: 8081B/Pest OC LL

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification		X
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Duplicate Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL		X
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification - DB XLB	beta-BHC	21		20	ICV OK
Continuing Calibration Recovery - DB XLB	Methoxychlor	36		20	CCV+ND
Std MRL Unsupported by ICAL - DB XLB	Methoxychlor	0.025	0.010		Elevated MRL
Std MRL Unsupported by ICAL - DB-35MS	Methoxychlor	0.025	0.010		
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.07			SA
	1-Bromo-2-nitrobenzene {2}	6.07			
	1-Bromo-2-nitrobenzene {3}	6.07			
	1-Bromo-2-nitrobenzene {4}	6.07			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File:	I:\GC38\DATA\041023B\0410F067.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 20:04:00	Vial:	11
Run Type:	N/A	Dilution:	1
Lab ID:	K2303523-001	Raw Units:	ug/L

Bottle ID:	K2303523-001.04	Tier:	IV	Matrix:	Water
Prod Code:	Pest OC LL	Collect Date:	3/23/23	Receive Date:	3/24/23

Analysis Lot:	801556	Prep Lot:	417398	Report Group:	K2303523
Analysis Method:	8081B	Prep Method:	EPA 3511		
		Prep Date:	3/29/23		

Title:	Low Level Organochlorine Pesticides by GC	Calibration ID:	KC2300233
		Report List ID:	20324

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.07	c	5.47	c	60128419	34190595	100.000	100.000
1-Bromo-2-nitrobenzene {2}	6.07	c	5.47	c	60128419	34190595	100.000	100.000

Surrogate Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	Criteria	Rpt?
Decachlorobiphenyl	20.15		18.38	^{-0.01}	1095726	812322	2.320	2.069	46	41	41	14 - 107	Y
Tetrachloro-m-xylene	9.10		7.42		3403252	2353698	4.156	4.503	83	90	83	31 - 132	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	0.00		0.00		0	0	0.000	0.000	0U	0U	0.0014 U	Y
alpha-BHC	0.00		0.00		0	0	0.000	0.000	0U	0U	0.0013 U	Y
beta-BHC	0.00		0.00		0	0	0.000	0.000	0U	0U	0.0017 U	Y
delta-BHC	0.00		0.00		1563	0	0.000	0.000	0U	0U	0.0011 U	Y
gamma-BHC (Lindane)	0.00		0.00		14812	0	0.000	0.000	0U	0U	0.00099 U	Y
cis-Chlordane	0.00		0.00		0	0	0.000	0.000	0U	0U	0.00099 U	Y
trans-Chlordane	0.00		0.00		0	0	0.000	0.000	0U	0U	0.0018 U	Y
4,4'-DDD	15.49	^{+0.02}	14.21	^{+0.04} WRT	76117	35116	0.069	0.118	0.0035Ui	0.0059Ui	0.0036 Ui	Y
4,4'-DDE	0.00		0.00		0	0	0.000	0.000	0U	0U	0.0015 U	Y
4,4'-DDT	0.00		0.00		0	8149	0.000	0.000	0U	0U	0.0013 U	Y
Dieldrin	0.00		0.00		0	36259	0.000	0.000	0U	0U	0.0020 U	Y
Endosulfan I	0.00		0.00		0	0	0.000	0.000	0U	0U	0.00095 U	Y
Endosulfan II	0.00		0.00		0	13564	0.000	0.000	0U	0U	0.0013 U	Y
Endosulfan Sulfate	0.00		0.00		0	0	0.000	0.000	0U	0U	0.0012 U	Y
Endrin	0.00		0.00		0	0	0.000	0.000	0U	0U	0.0025 U	Y
Endrin Aldehyde	0.00		0.00		0	0	0.000	0.000	0U	0U	0.0048 U	Y
Endrin Ketone	0.00		0.00		0	0	0.000	0.000	0U	0U	0.0016 U	Y
Heptachlor	0.00		0.00		0	0	0.000	0.000	0U	0U	0.00075 U	Y

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

Printed: 4/27/23 10:46

\\alprews001\starlims\LIMSRpts\QuantValidation.rpt

Data File:	I:\GC38\DATA\041023B\0410F067.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 20:04:00	Vial:	11
Run Type:	N/A	Dilution:	1
Lab ID:	K2303523-001	Raw Units:	ug/L

<i>Target Compounds</i>										Final Conc.Units: ug/L
Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0014 U	Y
Methoxychlor	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	0.0022 U	Y
Toxaphene					0.000	0.000	0U	0U	0.29 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {5}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {6}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	100 mL	Dilution:	1
Prep Final Amount:	5.00 mL	Basis Factor:	100.00

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 : I:\GC38\DATA\041023B\0410F067.D

Vial: 37

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 08:04 pm

Operator: CORP\ALKLS.NoUser

Sample : K2303523-001

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:37:50 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.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...	6.073	5.470	60128419	34190595	100.000	100.000
29)	1-Bromo-2...	6.073	5.470	60128419	34190595	100.000	100.000
36)	1-Bromo-2...	6.073	5.470	60128419	34190595	100.000	100.000
43)	1-Bromo-2...	6.073	5.470	60128419	34190595	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachlo...	9.097	7.423	3403252	2353698	4.156	4.503
28) s	Decachlor...	20.153	18.383	1095726	812322	2.320	2.069
Target Compounds							
19)	4,4'-DDD	15.490f	14.207f	76117	35116	0.069m	0.118 #
49)	HCE	3.863	3.210	25354	8006	0.017	0.009 #
50)	HCBD	4.690f	3.843	1330702	7174	1.057	0.011 #

SemiQuant Compounds - Not Calibrated on this Instrument

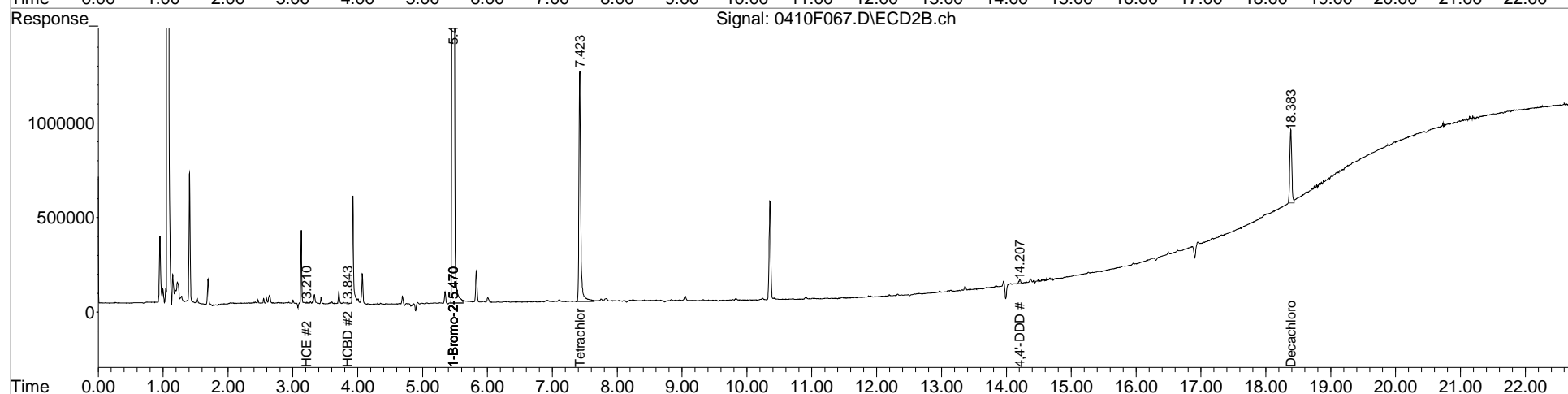
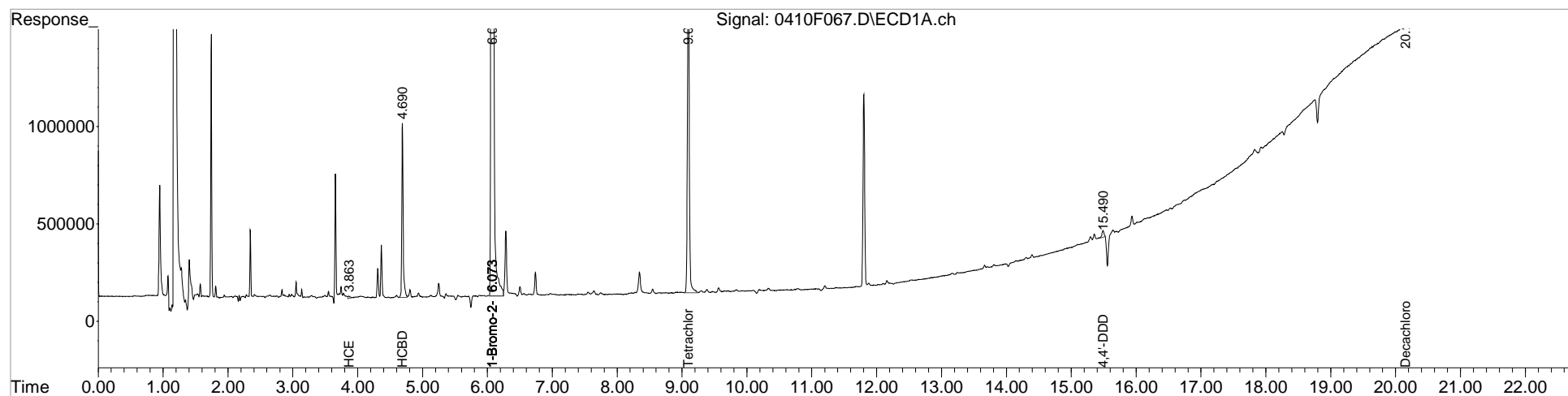
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : I:\GC38\DATA\041023B\0410F067.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2023 08:04 pm
Sample : K2303523-001
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 20 13:37:50 2023
Quant Results File: GC38-040323-8081.RES

Vial: 37
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 10:52:53 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : I:\GC38\DATA\041023B\0410F067.D

Vial: 37

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 08:04 pm

Operator: CORP\ALKLS.NoUser

Sample : K2303523-001

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:36:11 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

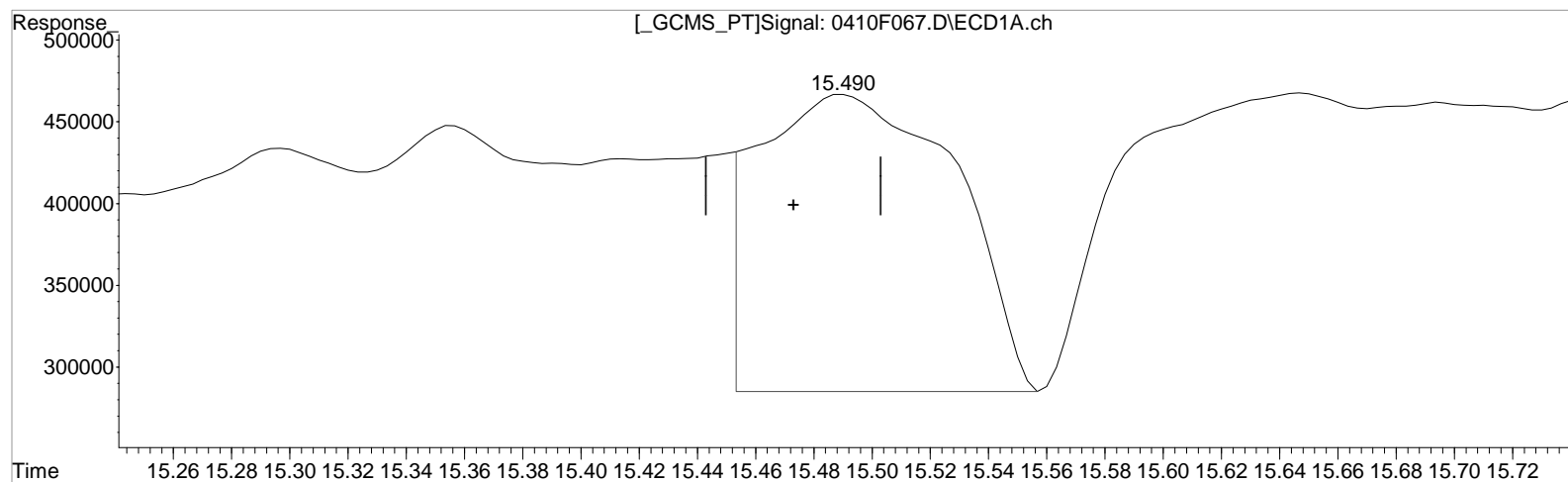
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(19) 4,4'-DDD

15.490min 1.884 ug/L

response 837519

Manual Integration:

Before

04/20/23

(19) 4,4'-DDD #2

14.207min 0.118 ug/L

response 35116

(+) = Expected Retention Time

Data File : I:\GC38\DATA\041023B\0410F067.D

Vial: 37

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 08:04 pm

Operator: CORP\ALKLS.NoUser

Sample : K2303523-001

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:36:11 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

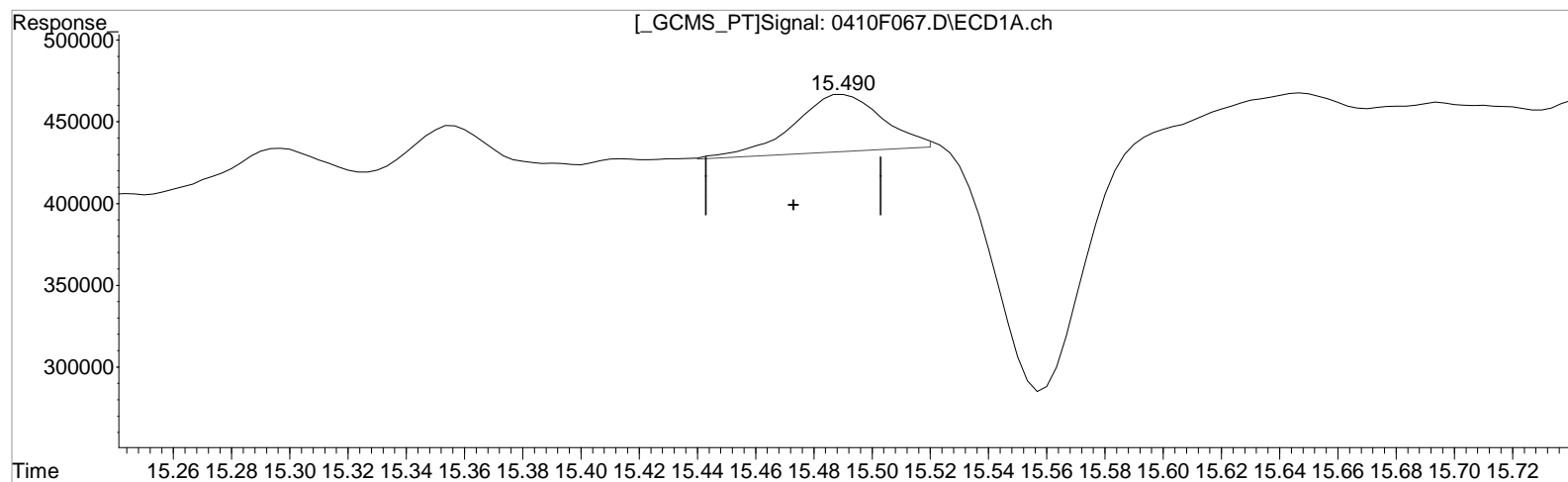
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(19) 4,4'-DDD

15.490min 0.069 ug/L m

response 76117

Manual Integration:

After

Baseline Correction

04/20/23

(19) 4,4'-DDD #2

14.207min 0.118 ug/L

response 35116

(+) = Expected Retention Time

Validation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File: I:\GC38\DATA\041023B\0410F062.D\
Lab ID: KQ2305743-01
RunType: MB
Matrix: Water

Date Acquired: 4/12/23 16:17:00
Batch ID: 801556
Analysis Method: 8081B/Pest OC LL

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification		X
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL		X
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification - DB XLB	beta-BHC	21		20	ICV OK
Continuing Calibration Recovery - DB XLB	Methoxychlor	36		20	CCV+ND
Std MRL Unsupported by ICAL - DB XLB	Methoxychlor	0.025	0.010		Elevated MRL
Std MRL Unsupported by ICAL - DB-35MS	Methoxychlor	0.025	0.010		/
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.08			SA
	1-Bromo-2-nitrobenzene {2}	6.08			
	1-Bromo-2-nitrobenzene {3}	6.08			
	1-Bromo-2-nitrobenzene {4}	6.08			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File:	I:\GC38\DATA\041023B\0410F062.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 16:17:00	Vial:	1
Run Type:	MB	Dilution:	1
Lab ID:	KQ2305743-01	Raw Units:	ug/L
Bottle ID:		Tier:	IV
Prod Code:	Pest OC LL	Collect Date:	3/23/23
		Matrix:	Water
		Receive Date:	3/24/23
Analysis Lot:	801556	Prep Lot:	417398
Analysis Method:	8081B	Prep Method:	EPA 3511
		Prep Date:	3/29/23
		Report Group:	KQ2305743
Title:	Low Level Organochlorine Pesticides by GC		
		Calibration ID:	KC2300233
		Report List ID:	20324

Internal Standard Compounds

Parameter Name	RT 1	RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.08 ^{+0.0} ₀	5.47 c		56350330	31781689	100.000	100.000
1-Bromo-2-nitrobenzene {2}	6.08 ^{+0.0} ₀	5.47 c		56350330	31781689	100.000	100.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
Decachlorobiphenyl	20.15	18.39	2111376	1541762	4.769	4.225	95	85	85	14 - 107	Y
Tetrachloro-m-xylene	9.10	7.42	3345380	2253699	4.359	4.639	87	93	87	31 - 132	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0014 U	Y
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0013 U	Y
beta-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0017 U	Y
delta-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0011 U	Y
gamma-BHC (Lindane)	0.00	0.00	4896	6363	0.000	0.000	0U	0U	0.00099 U	Y
cis-Chlordane	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00099 U	Y
trans-Chlordane	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0018 U	Y
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0013 U	Y
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0015 U	Y
4,4'-DDT	0.00	0.00	0	17008	0.000	0.000	0U	0U	0.0013 U	Y
Dieldrin	0.00	0.00	0	6162	0.000	0.000	0U	0U	0.0020 U	Y
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00095 U	Y
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0013 U	Y
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0012 U	Y
Endrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0025 U	Y
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0048 U	Y
Endrin Ketone	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0016 U	Y
Heptachlor	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00075 U	Y

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

Printed: 4/27/23 10:46

\\alprews001\starlims\LIMSRpts\QuantValidation.rpt

Data File:	I:\GC38\DATA\041023B\0410F062.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 16:17:00	Vial:	1
Run Type:	MB	Dilution:	1
Lab ID:	KQ2305743-01	Raw Units:	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0014 U	Y
Methoxychlor	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	0.0022 U	Y
Toxaphene					0.000	0.000	0U	0U	0.29 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {5}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {6}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	100 mL	Dilution:	1
Prep Final Amount:	5.00 mL	Basis Factor:	100.00

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 : I:\GC38\DATA\041023B\0410F062.D Vial: 32
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Apr 2023 04:17 pm Operator: CORP\ALKLS.NoUser
 Sample : KQ2305743-01 MB Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 20 13:30:28 2023
 Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Tue Apr 04 10:52:53 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.077	5.470	56350330	31781689	100.000	100.000
29)	1-Bromo-2...	6.077	5.470	56350330	31781689	100.000	100.000
36)	1-Bromo-2...	6.077	5.470	56350330	31781689	100.000	100.000
43)	1-Bromo-2...	6.077	5.470	56350330	31781689	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachlo...	9.097	7.423	3345380	2253699	4.359	4.639
28) s	Decachlor...	20.153	18.387	2111376	1541762	4.769	4.225
Target Compounds							
44)	Chlorpyrifos	12.553	11.423	3401	12788	0.010	0.064 #
49)	HCE	3.863	3.223	6107	5587	0.004	0.007 #

SemiQuant Compounds - Not Calibrated on this Instrument

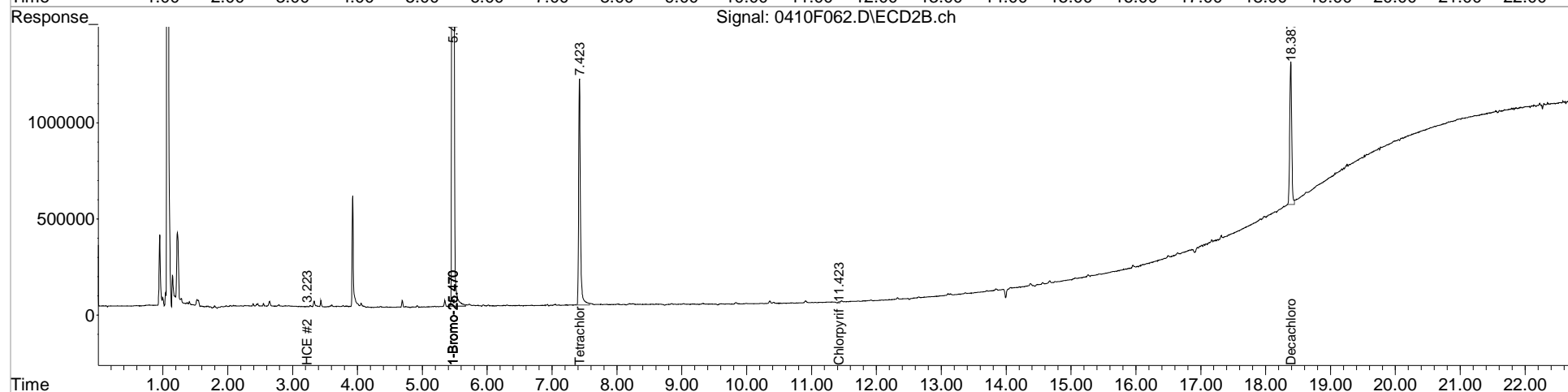
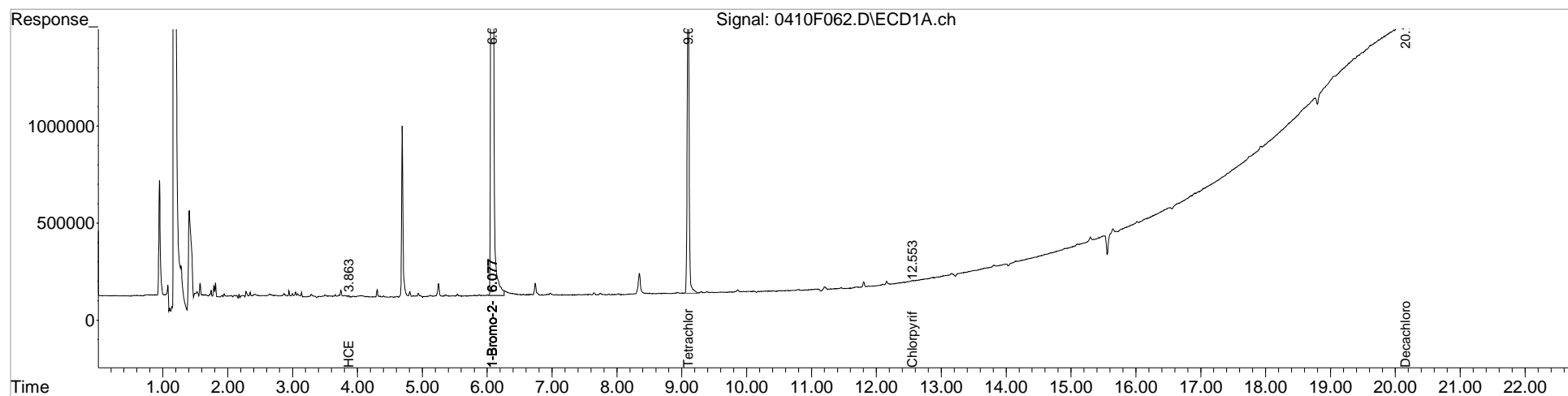
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : I:\GC38\DATA\041023B\0410F062.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2023 04:17 pm
Sample : KQ2305743-01 MB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 20 13:30:28 2023
Quant Results File: GC38-040323-8081.RES

Vial: 32
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 10:52:53 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Validation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File: I:\GC38\DATA\041023B\0410F063.D\
Lab ID: KQ2305743-02
RunType: LCS
Matrix: Water

Date Acquired: 4/12/23 17:02:00
Batch ID: 801556
Analysis Method: 8081B/Pest OC LL

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification		X
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL		X
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification - DB XLB	beta-BHC	21		20	ICV OK
Continuing Calibration Recovery - DB XLB	Methoxychlor	36		20	RO
Std MRL Unsupported by ICAL - DB XLB	Methoxychlor	0.025	0.010		Elevated MRL
Std MRL Unsupported by ICAL - DB-35MS	Methoxychlor	0.025	0.010		
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.08			SA
	1-Bromo-2-nitrobenzene {2}	6.08			
	1-Bromo-2-nitrobenzene {3}	6.08			
	1-Bromo-2-nitrobenzene {4}	6.08			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File:	I:\GC38\DATA\041023B\0410F063.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 17:02:00	Vial:	2
Run Type:	LCS	Dilution:	1
Lab ID:	KQ2305743-02	Raw Units:	ug/L
Bottle ID:		Tier:	IV
Prod Code:	Pest OC LL	Collect Date:	3/23/23
		Matrix:	Water
		Receive Date:	3/24/23
Analysis Lot:	801556	Prep Lot:	417398
Analysis Method:	8081B	Prep Method:	EPA 3511
		Prep Date:	3/29/23
		Report Group:	KQ2305743
Title:	Low Level Organochlorine Pesticides by GC		
		Calibration ID:	KC2300233
		Report List ID:	20324

Internal Standard Compounds

Parameter Name	RT 1	RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.08 ^{+0.0} ₀	5.47	c	59624506	33711122	100.000	100.000
1-Bromo-2-nitrobenzene {2}	6.08 ^{+0.0} ₀	5.47	c	59624506	33711122	100.000	100.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	Criteria	Rpt?
Decachlorobiphenyl	20.15	18.39	2275028	1614377	4.857	4.170	97	83	83	14 - 107	Y
Tetrachloro-m-xylene	9.10	7.42	3336188	2257683	4.109	4.381	82	88	82	31 - 132	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	12.66	11.03	2975028	1923817	4.395	4.541	0.220	0.227	0.220	Y
alpha-BHC	10.04	8.78	3388807	2088908	4.681	4.574	0.234	0.229	0.229	Y
beta-BHC	11.46	10.20	1751771	1188441	5.164	5.152	0.258	0.258	0.258	Y
delta-BHC	11.96	10.79	2950139	1847421	4.883	4.875	0.244	0.244	0.244	Y
gamma-BHC (Lindane)	10.79	9.61	3151452	1958992	4.999	4.918	0.250	0.246	0.246	Y
cis-Chlordane	14.20	12.73	2953691	1914329	5.262	4.672	0.263	0.234	0.234	Y
trans-Chlordane	14.11	12.56	3056723	1932806	5.390	4.711	0.270	0.236	0.236	Y
4,4'-DDD	15.47	14.17	2108477	1301378	4.956	4.437	0.248	0.222	0.222	Y
4,4'-DDE	14.50	13.14	2756012	1837787	4.585	4.714	0.229	0.236	0.229	Y
4,4'-DDT	16.04	14.66	1645825	1310792	5.017	4.636	0.251	0.232	0.232	Y
Dieldrin	14.75	13.34	2787756	1728959	5.236	4.835	0.262	0.242	0.242	Y
Endosulfan I	14.26	12.82	2186807	1359571	3.928	3.694	0.196	0.185	0.185	Y
Endosulfan II	15.69	14.40	2102369	1414998	4.510	4.338	0.226	0.217	0.217	Y
Endosulfan Sulfate	16.44	15.19	2299535	1630630	5.024	4.979	0.251	0.249	0.249	Y
Endrin	15.18	13.90	2376074	1578051	5.189	4.811	0.259	0.241	0.241	Y
Endrin Aldehyde	15.90	14.82	2026231	1291570	5.177	4.813	0.259	0.241	0.241	Y
Endrin Ketone	17.24	16.30 ^{+0.01}	2284804	1792620	4.912	5.054	0.246	0.253	0.246	Y
Heptachlor	12.05	10.37	3261817	1909944	5.082	4.401	0.254	0.220	0.220	Y

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

Printed: 4/27/23 10:46

\\alprews001\starlims\LIMSRpts\QuantValidation.rpt

Data File:	I:\GC38\DATA\041023B\0410F063.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 17:02:00	Vial:	2
Run Type:	LCS	Dilution:	1
Lab ID:	KQ2305743-02	Raw Units:	ug/L

<i>Target Compounds</i>										Final Conc.Units: ug/L
Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor Epoxide	13.50	12.14	3085373	1862961	5.295	4.579	0.265	0.229	0.229	Y
Methoxychlor	16.88	15.92	847636	681749	5.653 ^{ccv}	RO 4.997	0.283	0.250	0.250	Y
Toxaphene					0.000	0.000	0U	0U	0.29 U	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {5}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {6}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	100 mL	Dilution:	1
Prep Final Amount:	5.00 mL	Basis Factor:	100.00

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 : I:\GC38\DATA\041023B\0410F063.D

Vial: 33

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:02 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-02 LCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:32:28 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.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...	6.077	5.470	59624506	33711122	100.000	100.000
29)	1-Bromo-2...	6.077	5.470	59624506	33711122	100.000	100.000
36)	1-Bromo-2...	6.077	5.470	59624506	33711122	100.000	100.000
43)	1-Bromo-2...	6.077	5.470	59624506	33711122	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachlo...	9.097	7.423	3336188	2257683	4.109	4.381
28) s	Decachlor...	20.153	18.387	2275028	1614377	4.857	4.170
Target Compounds							
3)	alpha-BHC	10.040	8.783	3388807	2088908	4.681	4.574
4)	Hexachlor...	10.217	8.547	4395359	2740795	4.494	4.609
5)	beta-BHC	11.460	10.200	1751771	1188441	5.164	5.152
6)	gamma-BHC...	10.787	9.610	3151452	1958992	4.999	4.918
7)	delta-BHC	11.960	10.790	2950139	1847421	4.883	4.875
8)	Heptachlor	12.050	10.367	3261817	1909944	5.082	4.401
9)	Aldrin	12.660	11.027	2975028	1923817	4.395	4.541
10)	Isodrin	13.283	11.873	2790423	1724839	5.160	4.970
11)	Heptachlo...	13.503	12.137	3085373	1862961	5.295	4.579
12)	gamma-Chl...	14.107	12.560	3056723	1932806	5.390	4.711
13)	Endosulfan I	14.260	12.817	2186807	1359571	3.928	3.694
14)	alpha-Chl...	14.197	12.733	2953691	1914329	5.262	4.672
15)	Dieldrin	14.747	13.337	2787756	1728959	5.236	4.835
16)	4,4'-DDE	14.500	13.137	2756012	1837787	4.585	4.714
17)	Endrin	15.177	13.903	2376074	1578051	5.189	4.811m
18)	Endosulfa...	15.687	14.400	2102369	1414998	4.510m	4.338
19)	4,4'-DDD	15.470	14.170	2108477	1301378	4.956m	4.437
20)	Endrin Al...	15.897	14.820	2026231	1291570	5.177	4.813
21)	Endosulfa...	16.440	15.190	2299535	1630630	5.024	4.979
22)	4,4'-DDT	16.043	14.660	1645825	1310792	5.017	4.636
23)	Endrin Ke...	17.240	16.297	2284804	1792620	4.912	5.054
24)	Methoxychlor	16.883	15.917	847636	681749	5.653	4.997

SemiQuant Compounds - Not Calibrated on this Instrument

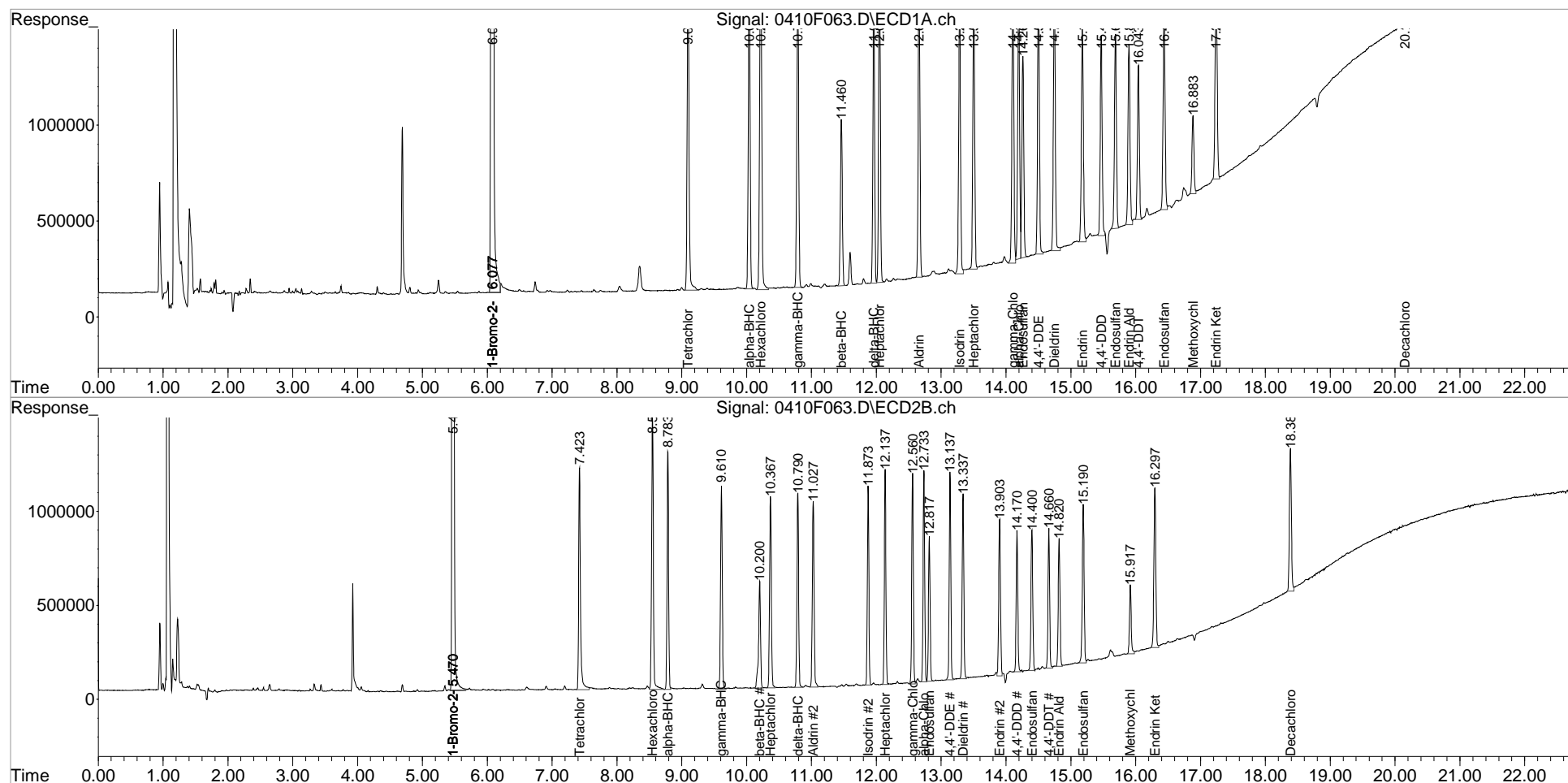
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : I:\GC38\DATA\041023B\0410F063.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2023 05:02 pm
Sample : KQ2305743-02 LCS 81
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 20 13:32:28 2023
Quant Results File: GC38-040323-8081.RES

Vial: 33
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 10:52:53 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : I:\GC38\DATA\041023B\0410F063.D

Vial: 33

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:02 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-02 LCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:31:07 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

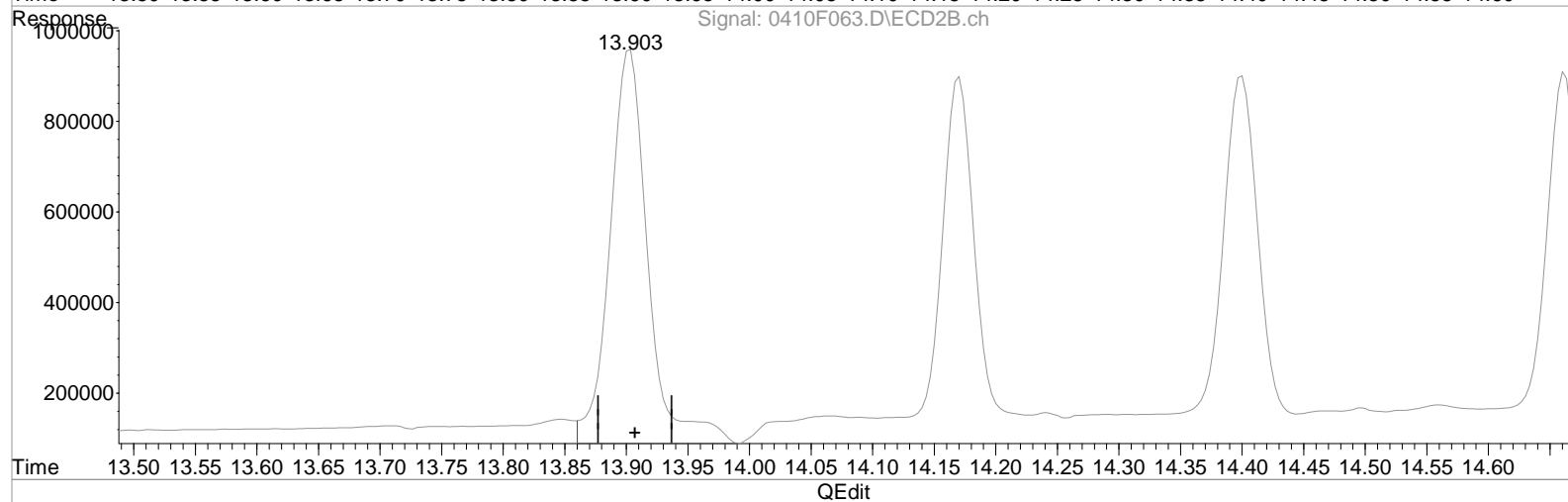
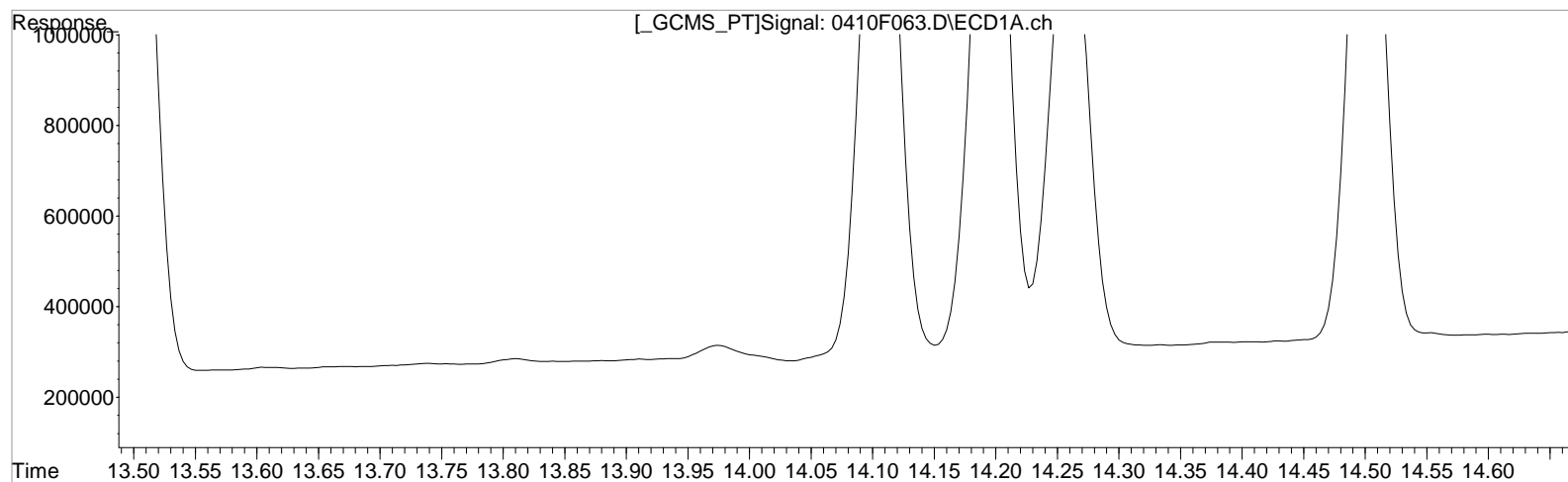
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(17) Endrin

15.177min 5.189 ug/L

response 2376074

Manual Integration:

Before

04/20/23

(17) Endrin #2

13.903min 5.657 ug/L

response 1855466

(+) = Expected Retention Time

GC38-040323-8081.M Thu Apr 20 13:31:51 2023

Data File : I:\GC38\DATA\041023B\0410F063.D

Vial: 33

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:02 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-02 LCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:31:07 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

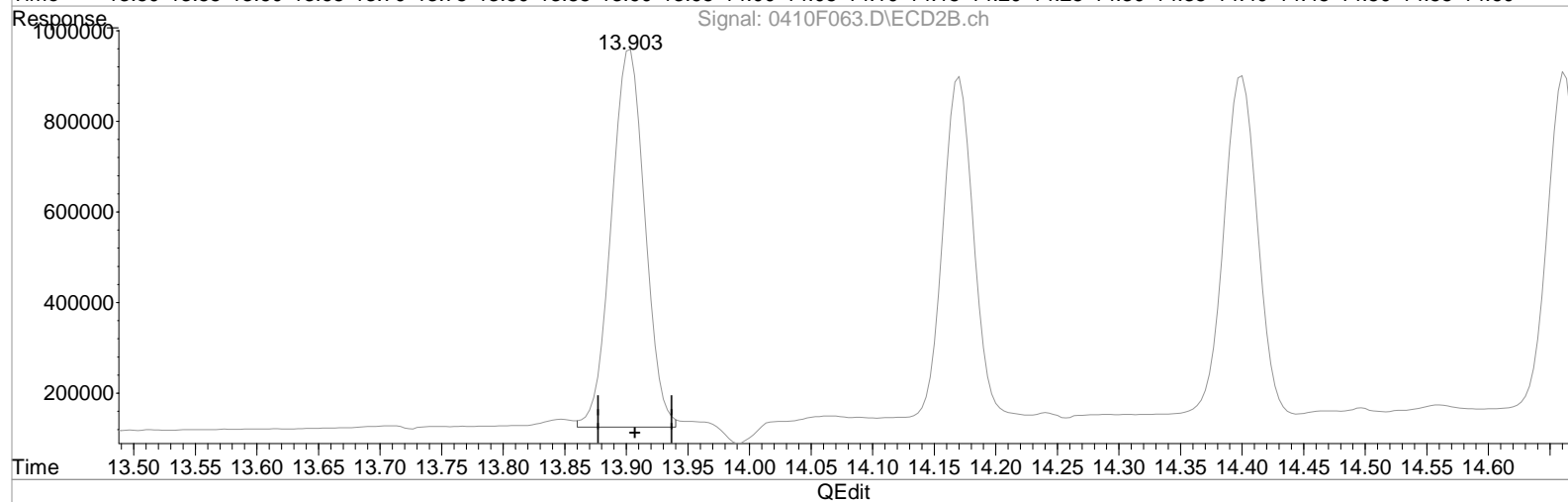
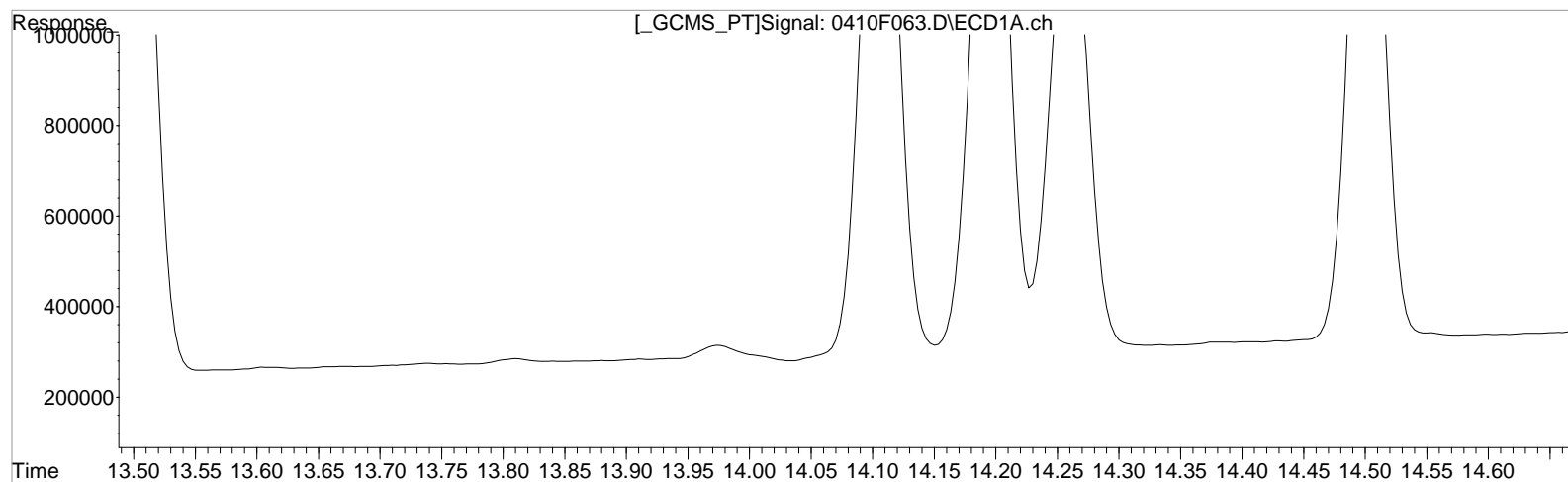
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(17) Endrin

15.177min 5.189 ug/L

response 2376074

Manual Integration:

After

Baseline Correction

04/20/23

(17) Endrin #2

13.903min 4.811 ug/L m

response 1578051

Data File : I:\GC38\DATA\041023B\0410F063.D

Vial: 33

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:02 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-02 LCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:31:07 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

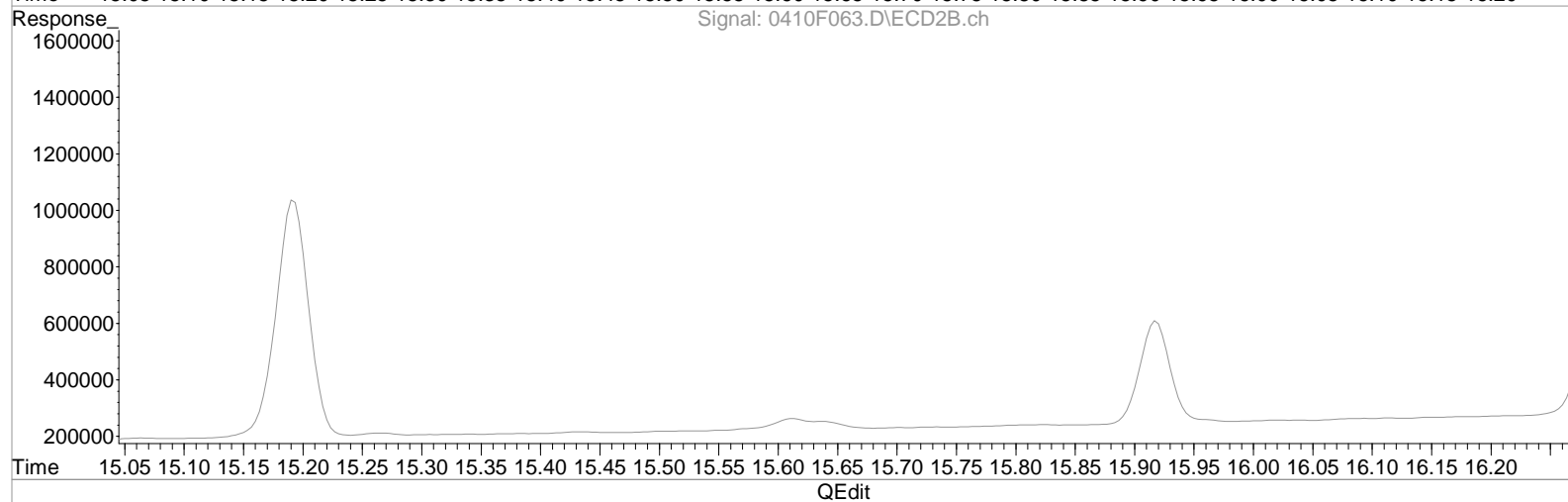
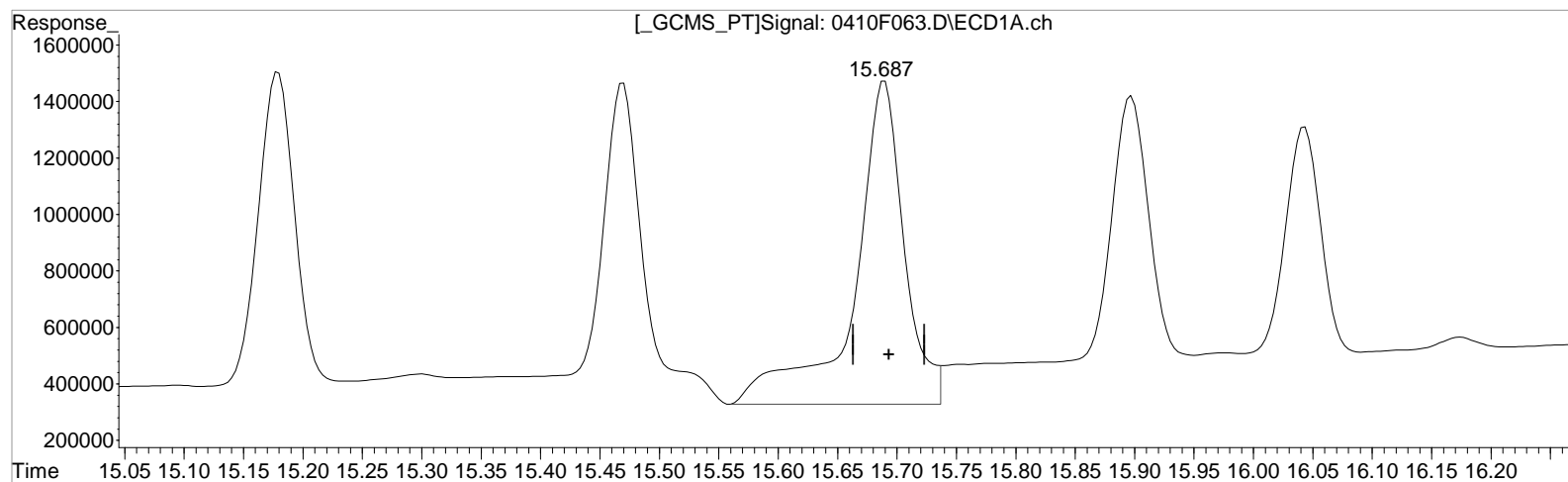
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(18) Endosulfan II

15.687min 7.284 ug/L

response 3379912

Manual Integration:

Before

04/20/23

(18) Endosulfan II #2

14.400min 4.338 ug/L

response 1414998

Data File : I:\GC38\DATA\041023B\0410F063.D

Vial: 33

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:02 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-02 LCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:31:07 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

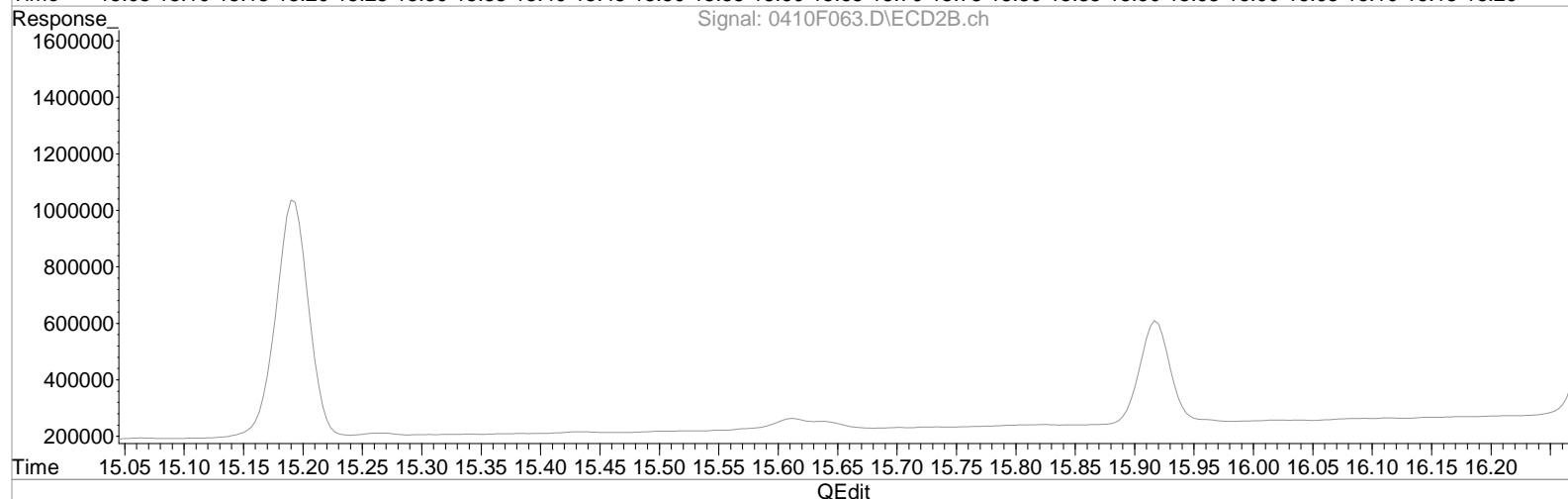
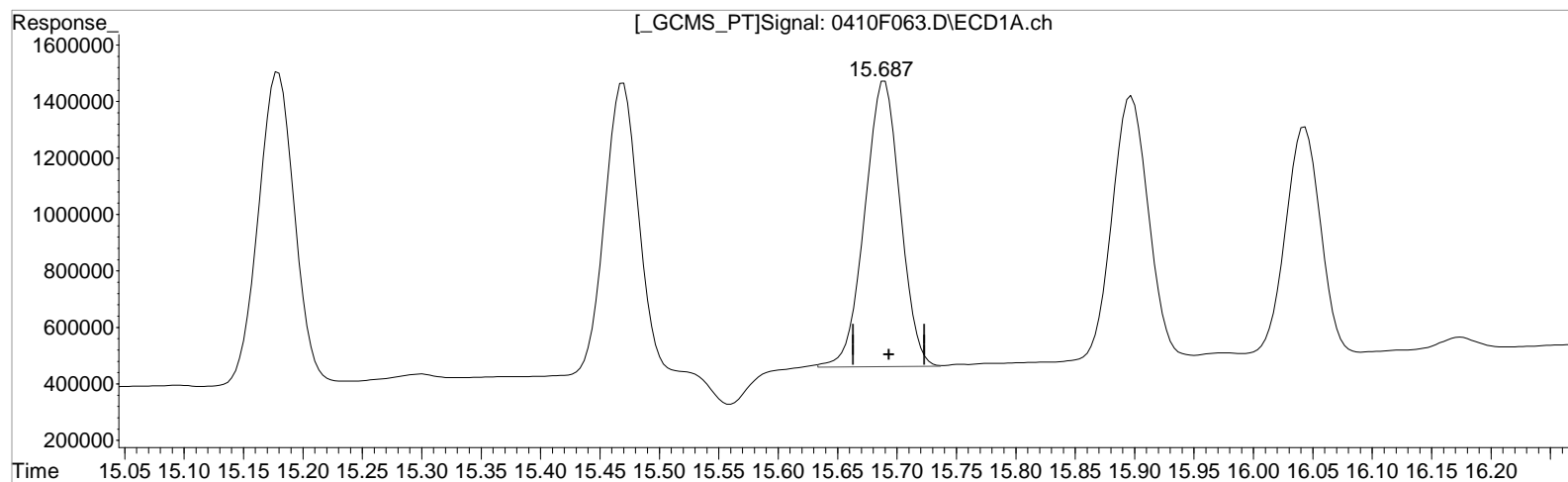
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(18) Endosulfan II

15.687min 4.510 ug/L m

response 2102369

Manual Integration:

After

Baseline Correction

04/20/23

(18) Endosulfan II #2

14.400min 4.338 ug/L

response 1414998

Data File : I:\GC38\DATA\041023B\0410F063.D

Vial: 33

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:02 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-02 LCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:31:07 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

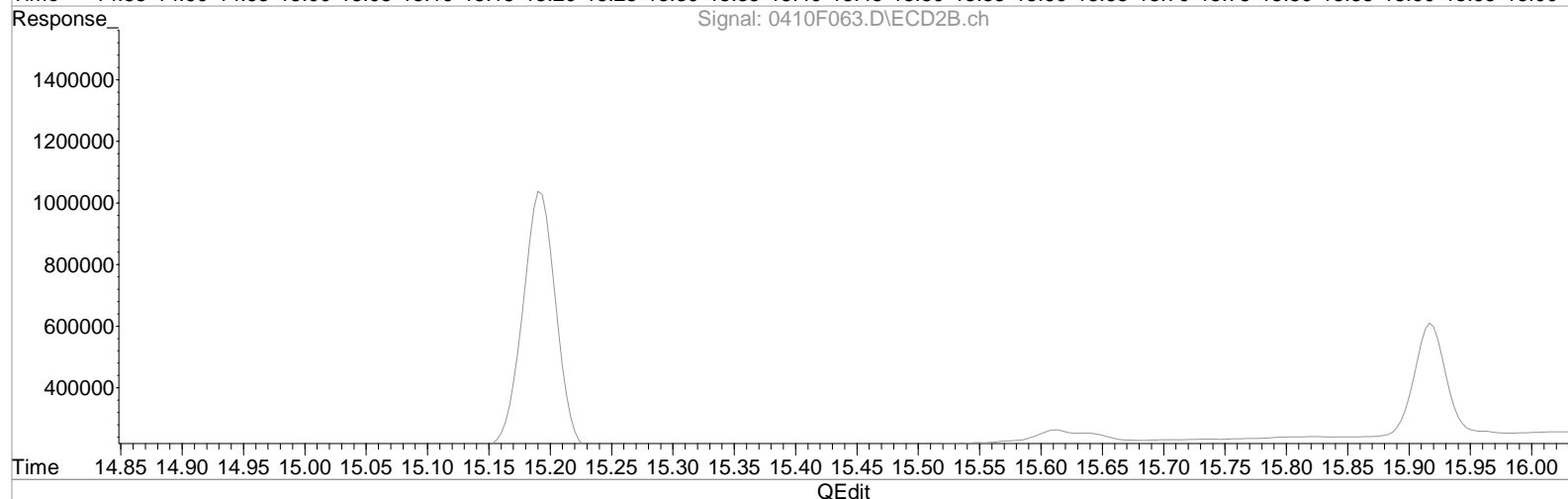
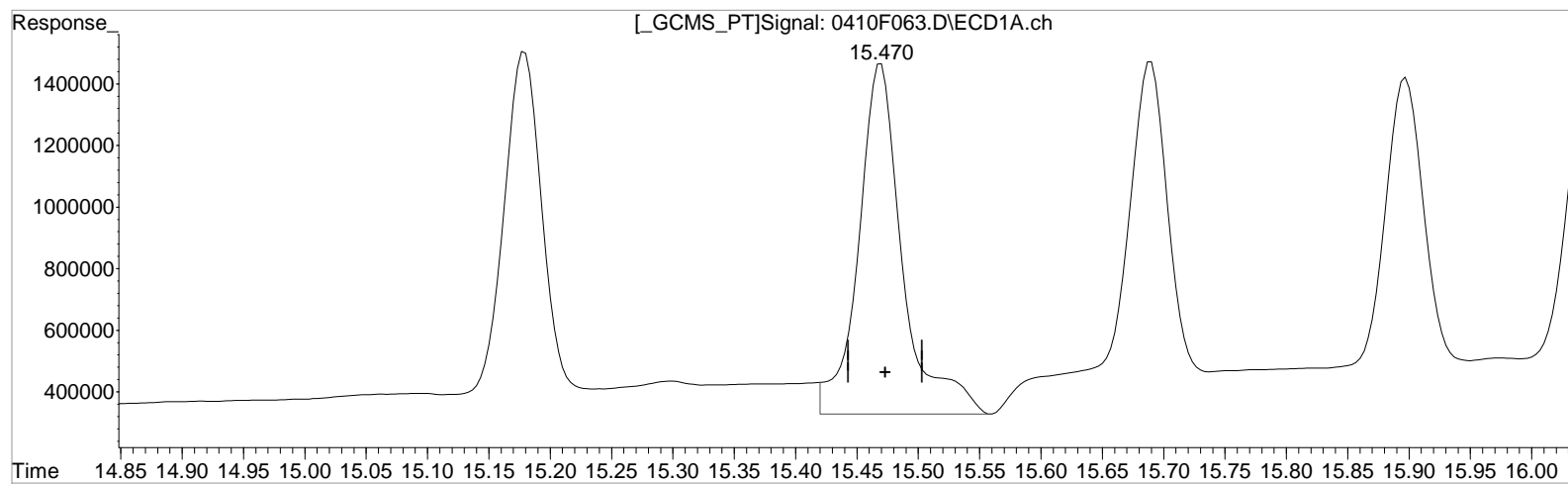
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(19) 4,4'-DDD

15.470min 6.668 ug/L

response 2820634

Manual Integration:

Before

04/20/23

(19) 4,4'-DDD #2

14.170min 4.437 ug/L

response 1301378

Data File : I:\GC38\DATA\041023B\0410F063.D

Vial: 33

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:02 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-02 LCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:31:07 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

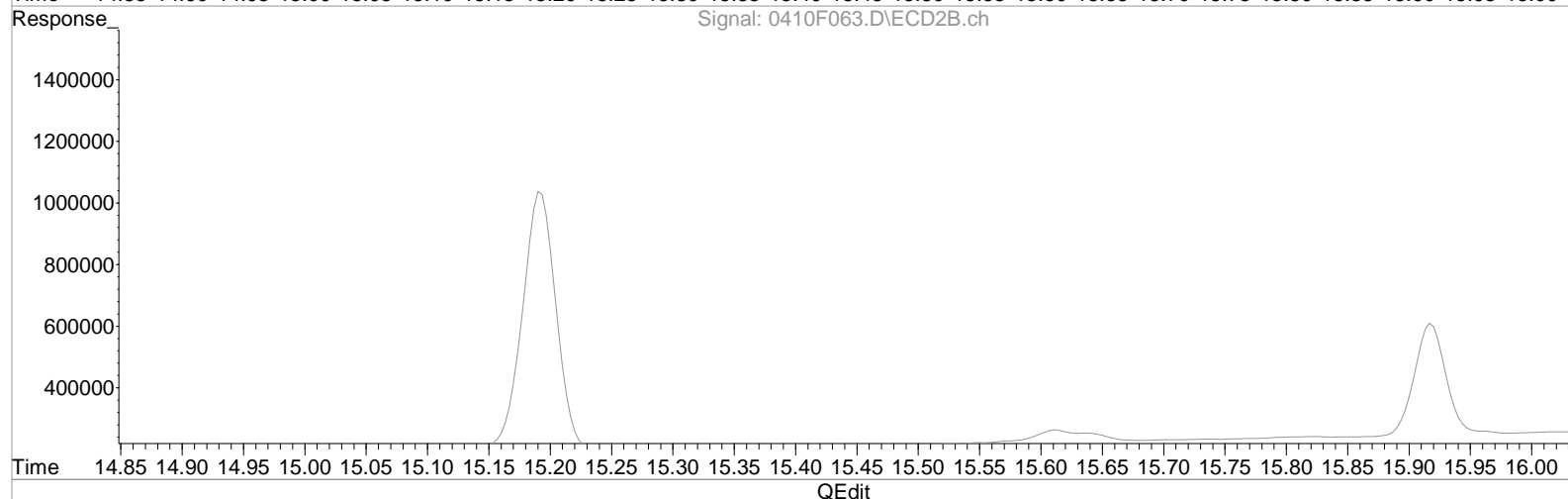
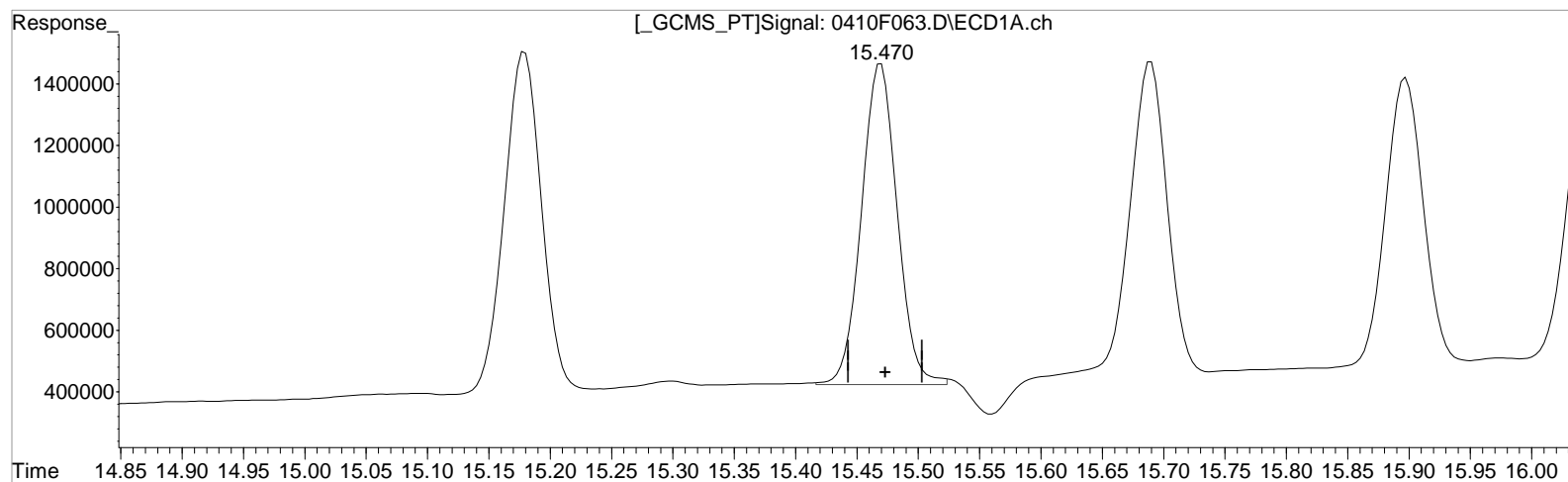
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(19) 4,4'-DDD

15.470min 4.956 ug/L m

response 2108477

Manual Integration:

After

Baseline Correction

04/20/23

(19) 4,4'-DDD #2

14.170min 4.437 ug/L

response 1301378

Validation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File: I:\GC38\DATA\041023B\0410F064.D\
Lab ID: KQ2305743-03
RunType: DLCS
Matrix: Water

Date Acquired: 4/12/23 17:48:00
Batch ID: 801556
Analysis Method: 8081B/Pest OC LL

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification		X
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL		X
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification - DB XLB	beta-BHC	21		20	ICV OK
Continuing Calibration Recovery - DB XLB	Methoxychlor	36		20	RO
Std MRL Unsupported by ICAL - DB XLB	Methoxychlor	0.025	0.010		Elevated MRL
Std MRL Unsupported by ICAL - DB-35MS	Methoxychlor	0.025	0.010		I
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.08			SA
	1-Bromo-2-nitrobenzene {2}	6.08			
	1-Bromo-2-nitrobenzene {3}	6.08			
	1-Bromo-2-nitrobenzene {4}	6.08			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File:	I:\GC38\DATA\041023B\0410F064.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 17:48:00	Vial:	3
Run Type:	DLCS	Dilution:	1
Lab ID:	KQ2305743-03	Raw Units:	ug/L
Bottle ID:		Tier:	IV
Prod Code:	Pest OC LL	Collect Date:	3/23/23
		Matrix:	Water
		Receive Date:	3/24/23
Analysis Lot:	801556	Prep Lot:	417398
Analysis Method:	8081B	Prep Method:	EPA 3511
		Prep Date:	3/29/23
		Report Group:	KQ2305743
Title:	Low Level Organochlorine Pesticides by GC		
		Calibration ID:	KC2300233
		Report List ID:	20324

Internal Standard Compounds

Parameter Name	RT 1	RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.08 ^{+0.0} ₀	5.47	c	60207402	33938817	100.000	100.000
1-Bromo-2-nitrobenzene {2}	6.08 ^{+0.0} ₀	5.47	c	60207402	33938817	100.000	100.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	Criteria	Rpt?
Decachlorobiphenyl	20.15	18.39	2194504	1580461	4.640	4.055	93	81	81	14 - 107	Y
Tetrachloro-m-xylene	9.10	7.42	3349633	2247300	4.085	4.331	82	87	82	31 - 132	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	12.66	11.03	2976715	1908675	4.355	4.475	0.218	0.224	0.218	Y
alpha-BHC	10.04	8.79 ^{+0.01}	3374979	2079890	4.616	4.524	0.231	0.226	0.226	Y
beta-BHC	11.46	10.20	1747690	1163997	5.100	5.012	0.255	0.251	0.251	Y
delta-BHC	11.96	10.79	2939053	1837181	4.817	4.815	0.241	0.241	0.241	Y
gamma-BHC (Lindane)	10.79	9.61	3156110	1930098	4.957	4.811	0.248	0.241	0.241	Y
cis-Chlordane	14.20	12.73	2973163	1912397	5.245	4.636	0.262	0.232	0.232	Y
trans-Chlordane	14.11	12.56	3064759	1928608	5.351	4.669	0.268	0.233	0.233	Y
4,4'-DDD	15.47	14.17	2120987	1303126	4.937	4.413	0.247	0.221	0.221	Y
4,4'-DDE	14.50	13.14	2751075	1812261	4.533	4.617	0.227	0.231	0.227	Y
4,4'-DDT	16.04	14.66	1639427	1315610	4.947	4.622	0.247	0.231	0.231	Y
Dieldrin	14.75	13.34	2768592	1723502	5.147	4.787	0.257	0.239	0.239	Y
Endosulfan I	14.26	12.82	2181626	1357091	3.880	3.662	0.194	0.183	0.183	Y
Endosulfan II	15.69	14.40	2210747	1425532	4.699	4.341	0.235	0.217	0.217	Y
Endosulfan Sulfate	16.44	15.19	2302574	1619972	4.981	4.911	0.249	0.246	0.246	Y
Endrin	15.18	13.90	2377572	1574850	5.140	4.769	0.257	0.238	0.238	Y
Endrin Aldehyde	15.90	14.82	2009996	1294255	5.083	4.790	0.254	0.240	0.240	Y
Endrin Ketone	17.24	16.29	2296395	1766511	4.889	4.943	0.244	0.247	0.244	Y
Heptachlor	12.05	10.37	3238118	1910570	4.993	4.373	0.250	0.219	0.219	Y

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

Printed: 4/27/23 10:46

\\alprews001\starlims\LIMSRpts\QuantValidation.rpt

Data File:	I:\GC38\DATA\041023B\0410F064.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 17:48:00	Vial:	3
Run Type:	DLCS	Dilution:	1
Lab ID:	KQ2305743-03	Raw Units:	ug/L

<i>Target Compounds</i>										Final Conc.Units: ug/L
Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor Epoxide	13.50	12.14	3048985	1874566	5.178	4.577	0.259	0.229	0.229	Y
Methoxychlor	16.88	15.92	838746	671313	5.540 ^{ccv}	RO 4.887	0.277	0.244	0.244	Y
Toxaphene					0.000	0.000	0U	0U	0.29 U	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {5}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {6}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount: 100 mL **Dilution:** 1
Prep Final Amount: 5.00 mL **Basis Factor:** 100.00

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 : I:\GC38\DATA\041023B\0410F064.D

Vial: 34

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:48 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-03 DLCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:33:57 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.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...	6.077	5.470	60207402	33938817	100.000	100.000
29)	1-Bromo-2...	6.077	5.470	60207402	33938817	100.000	100.000
36)	1-Bromo-2...	6.077	5.470	60207402	33938817	100.000	100.000
43)	1-Bromo-2...	6.077	5.470	60207402	33938817	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachlo...	9.097	7.420	3349633	2247300	4.085	4.331
28) s	Decachlor...	20.153	18.387	2194504	1580461	4.640	4.055
Target Compounds							
3)	alpha-BHC	10.040	8.787	3374979	2079890	4.616	4.524
4)	Hexachlor...	10.217	8.547	4373066	2641336	4.428	4.412
5)	beta-BHC	11.460	10.200	1747690	1163997	5.100	5.012
6)	gamma-BHC...	10.790	9.610	3156110	1930098	4.957	4.811
7)	delta-BHC	11.960	10.787	2939053	1837181	4.817	4.815
8)	Heptachlor	12.050	10.367	3238118	1910570	4.993	4.373
9)	Aldrin	12.660	11.027	2976715	1908675	4.355	4.475
10)	Isodrin	13.287	11.873	2779855	1717061	5.091	4.915
11)	Heptachlo...	13.503	12.137	3048985	1874566	5.178	4.577
12)	gamma-Chl...	14.107	12.560	3064759	1928608	5.351	4.669
13)	Endosulfan I	14.260	12.817	2181626	1357091	3.880	3.662
14)	alpha-Chl...	14.197	12.733	2973163	1912397	5.245	4.636
15)	Dieldrin	14.747	13.337	2768592	1723502	5.147	4.787
16)	4,4'-DDE	14.500	13.137	2751075	1812261	4.533	4.617
17)	Endrin	15.177	13.900	2377572	1574850	5.140	4.769m
18)	Endosulfa...	15.690	14.400	2210747	1425532	4.699m	4.341
19)	4,4'-DDD	15.467	14.170	2120987	1303126	4.937m	4.413
20)	Endrin Al...	15.897	14.820	2009996	1294255	5.083	4.790
21)	Endosulfa...	16.437	15.190	2302574	1619972	4.981	4.911
22)	4,4'-DDT	16.043	14.660	1639427	1315610	4.947	4.622
23)	Endrin Ke...	17.240	16.293	2296395	1766511	4.889	4.943
24)	Methoxychlor	16.883	15.917	838746	671313	5.540	4.887

SemiQuant Compounds - Not Calibrated on this Instrument

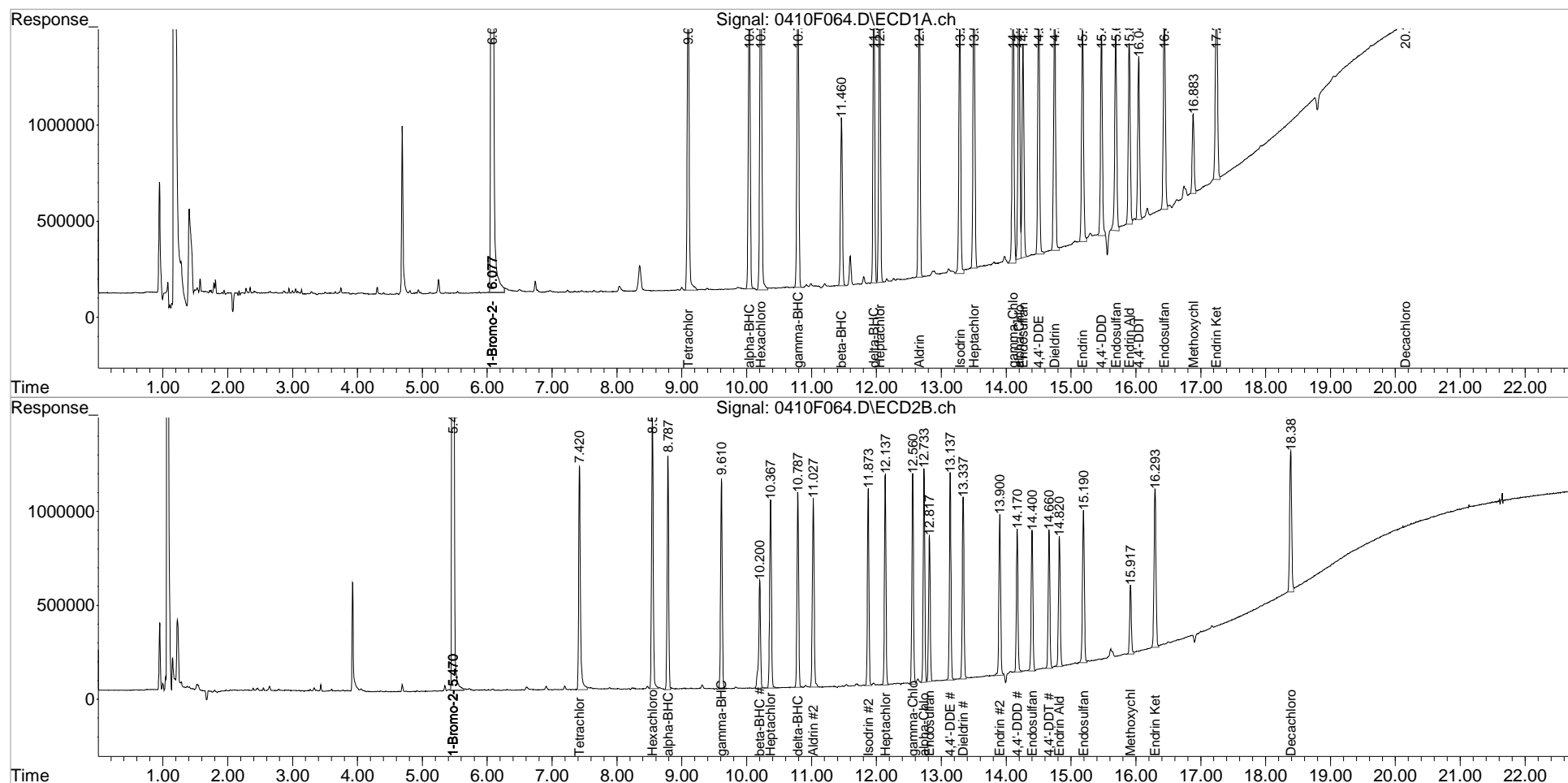
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : I:\GC38\DATA\041023B\0410F064.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2023 05:48 pm
Sample : KQ2305743-03 DLCS 81
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 20 13:33:57 2023
Quant Results File: GC38-040323-8081.RES

Vial: 34
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 10:52:53 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : I:\GC38\DATA\041023B\0410F064.D

Vial: 34

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:48 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-03 DLCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:32:49 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

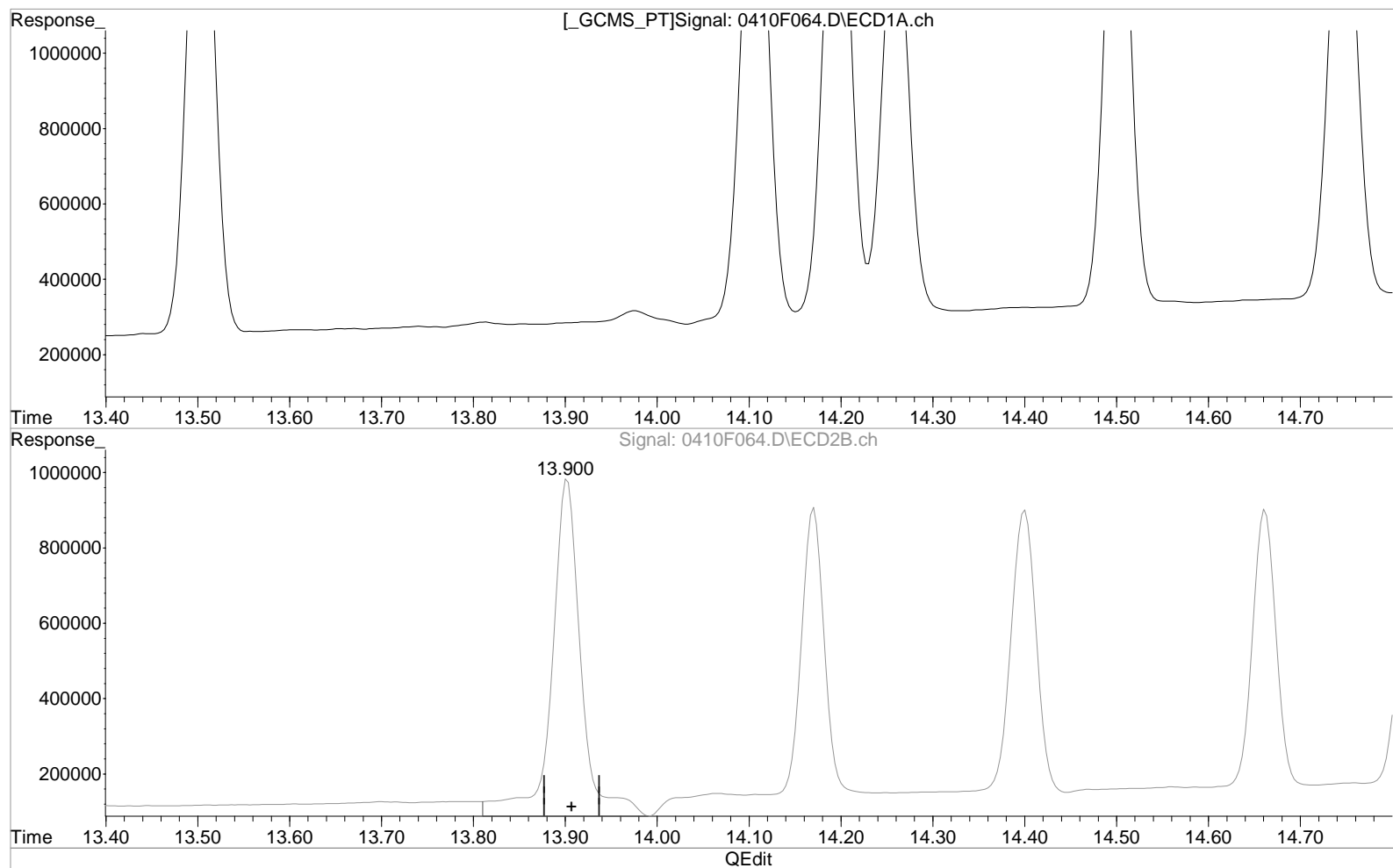
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(17) Endrin

15.177min 5.140 ug/L

response 2377572

Manual Integration:

Before

04/20/23

(17) Endrin #2

13.900min 5.982 ug/L

response 1975151

(+) = Expected Retention Time

Data File : I:\GC38\DATA\041023B\0410F064.D

Vial: 34

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:48 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-03 DLCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:32:49 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

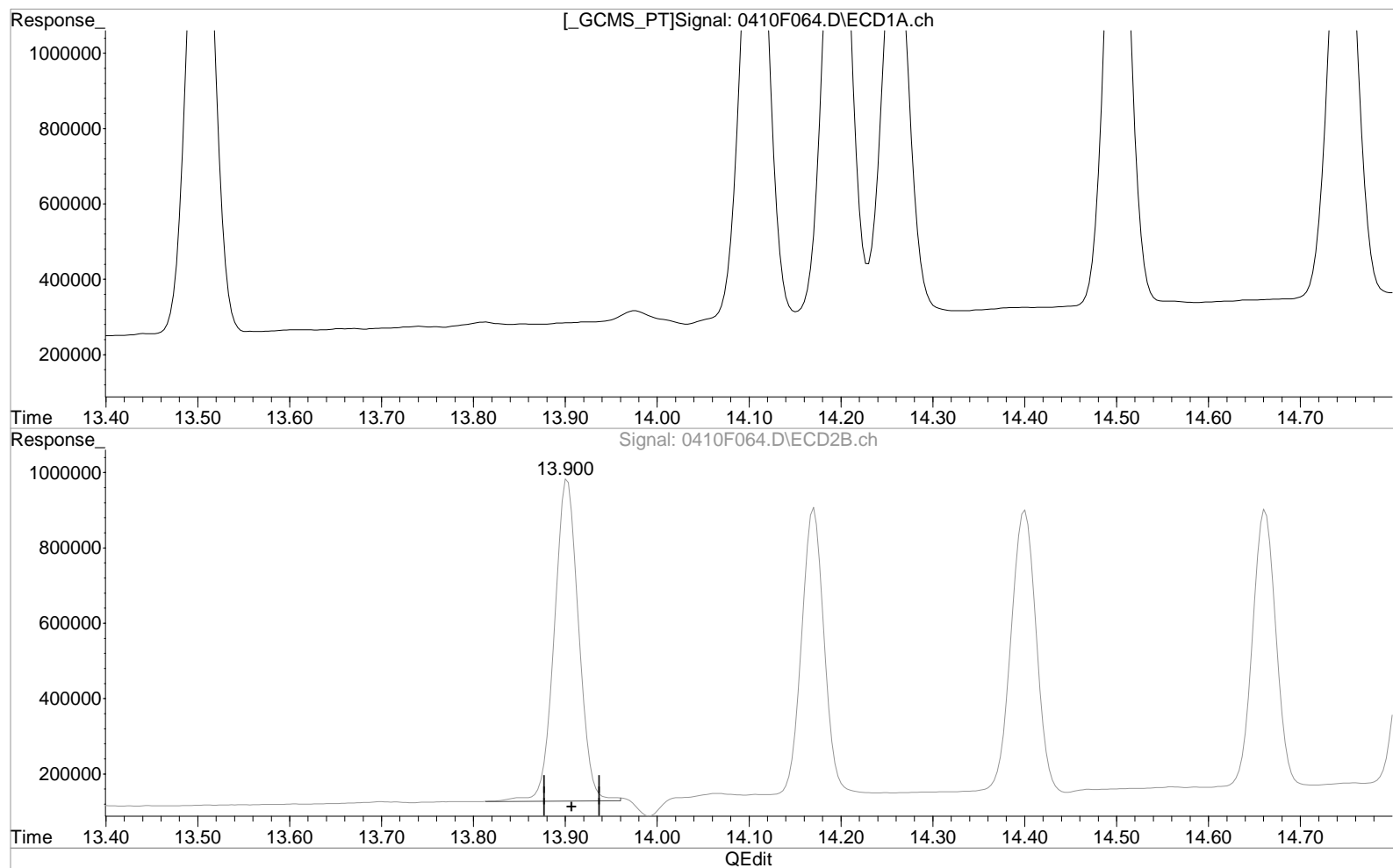
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(17) Endrin

15.177min 5.140 ug/L

response 2377572

Manual Integration:

After

Baseline Correction

04/20/23

(17) Endrin #2

13.900min 4.769 ug/L m

response 1574850

Data File : I:\GC38\DATA\041023B\0410F064.D

Vial: 34

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:48 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-03 DLCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:32:49 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

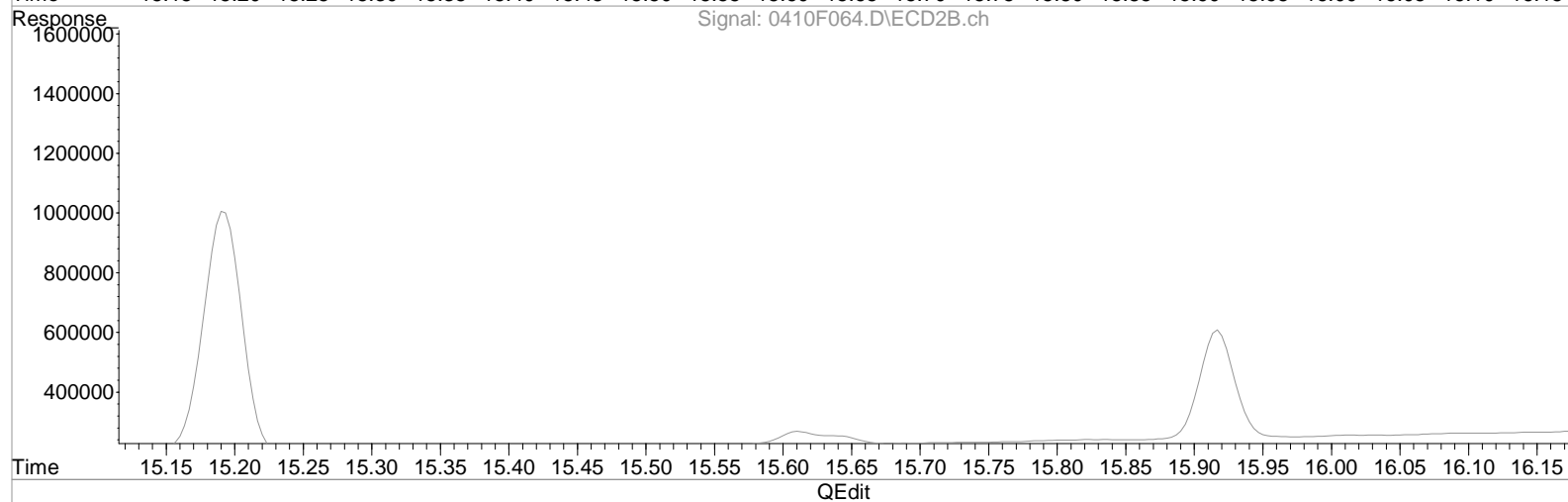
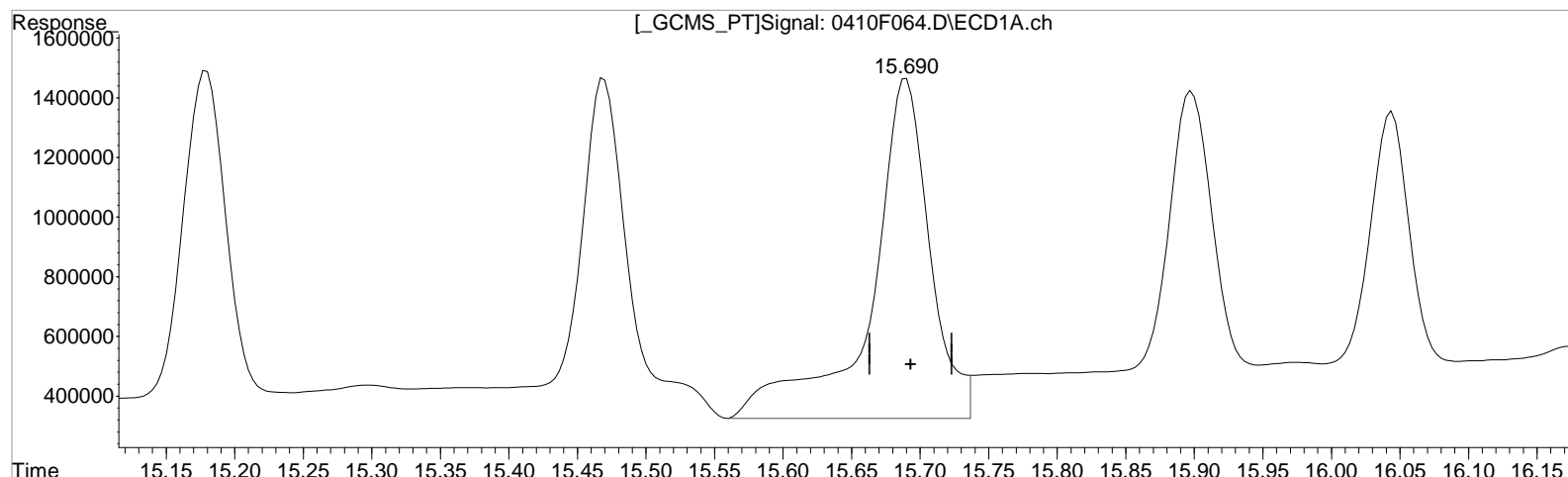
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(18) Endosulfan II

15.690min 7.338 ug/L

response 3438412

Manual Integration:

Before

04/20/23

(18) Endosulfan II #2

14.400min 4.341 ug/L

response 1425532

(+) = Expected Retention Time

Data File : I:\GC38\DATA\041023B\0410F064.D

Vial: 34

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:48 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-03 DLCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:32:49 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

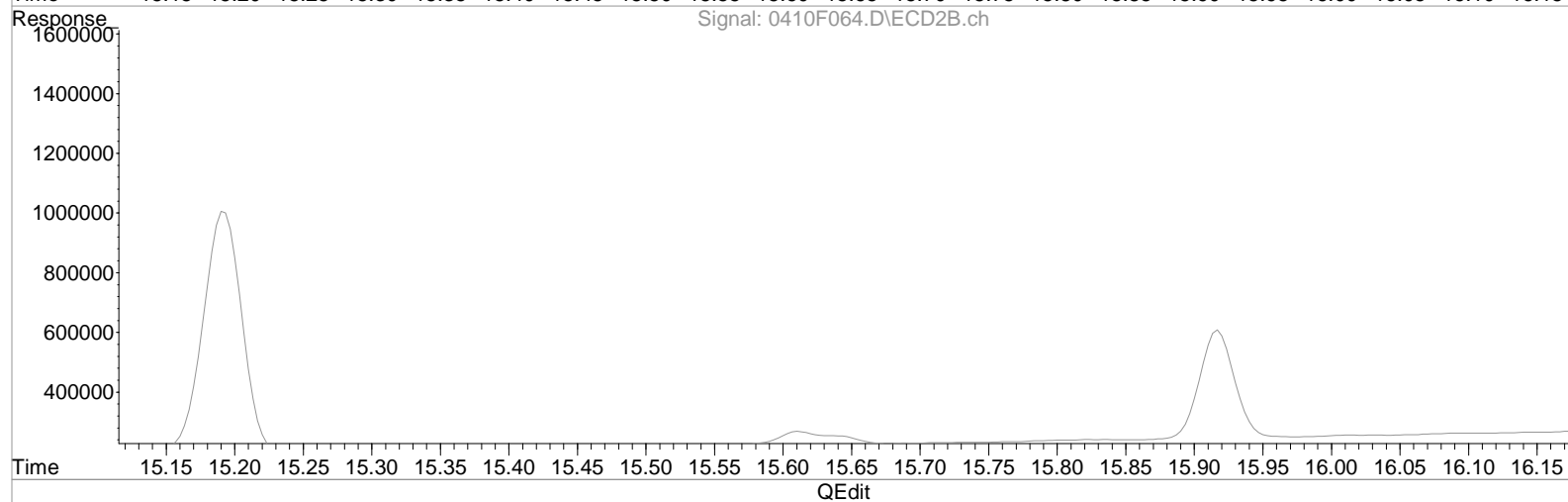
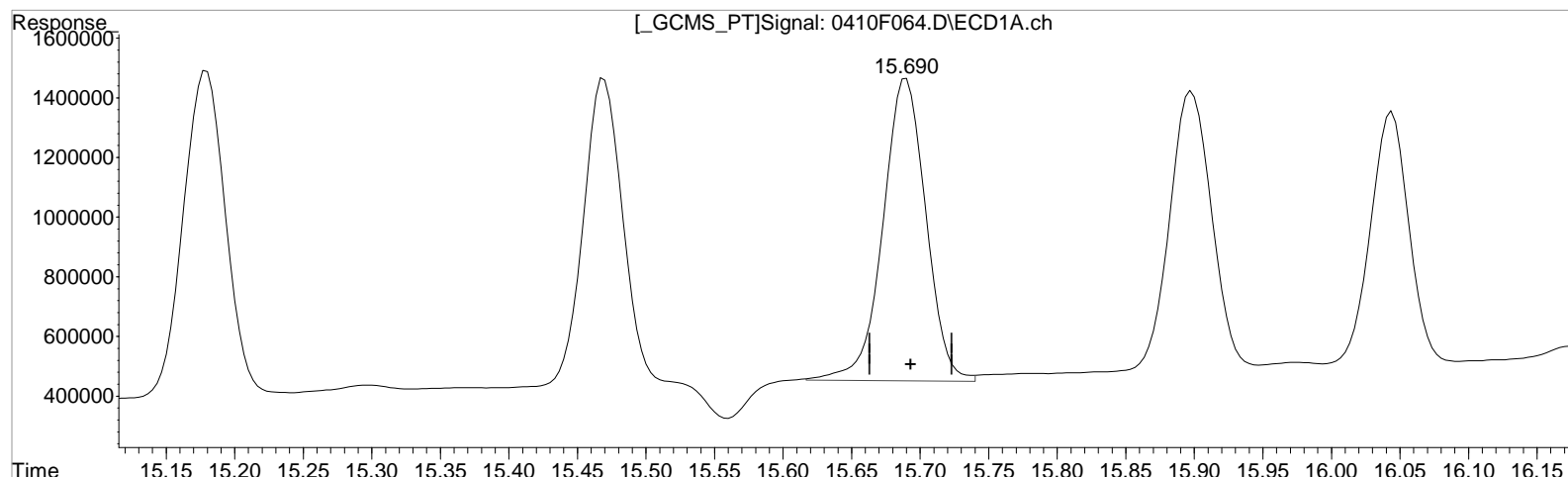
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(18) Endosulfan II

15.690min 4.699 ug/L m

response 2210747

(18) Endosulfan II #2

14.400min 4.341 ug/L

response 1425532

Manual Integration:

After

Baseline Correction

04/20/23

Data File : I:\GC38\DATA\041023B\0410F064.D

Vial: 34

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:48 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-03 DLCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:32:49 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

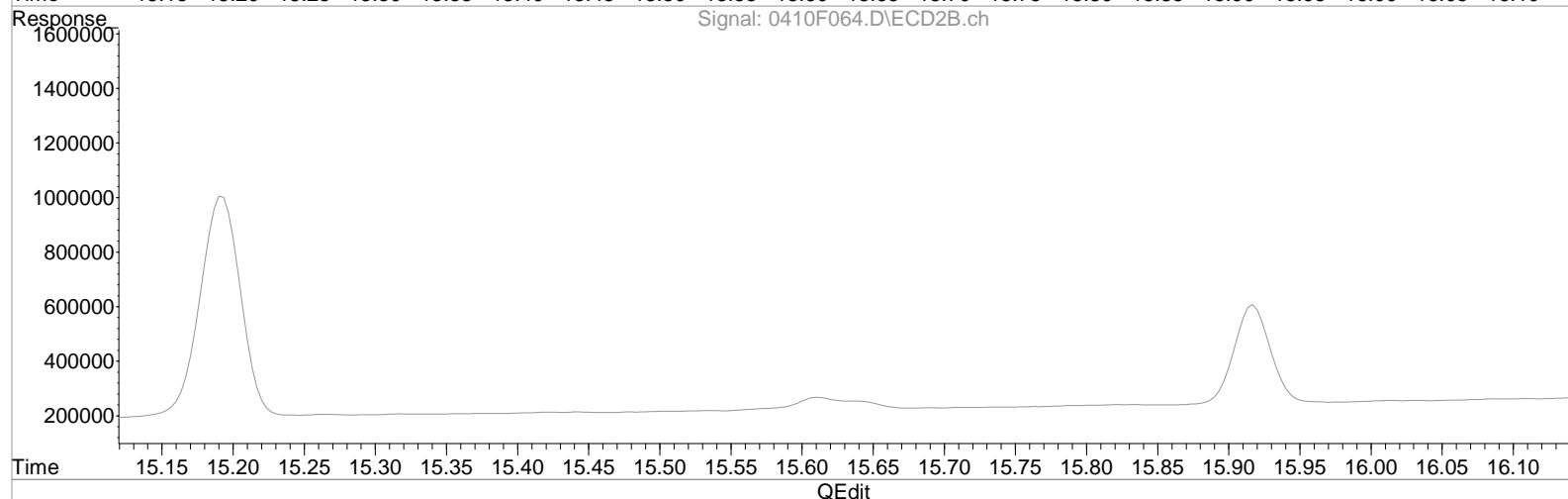
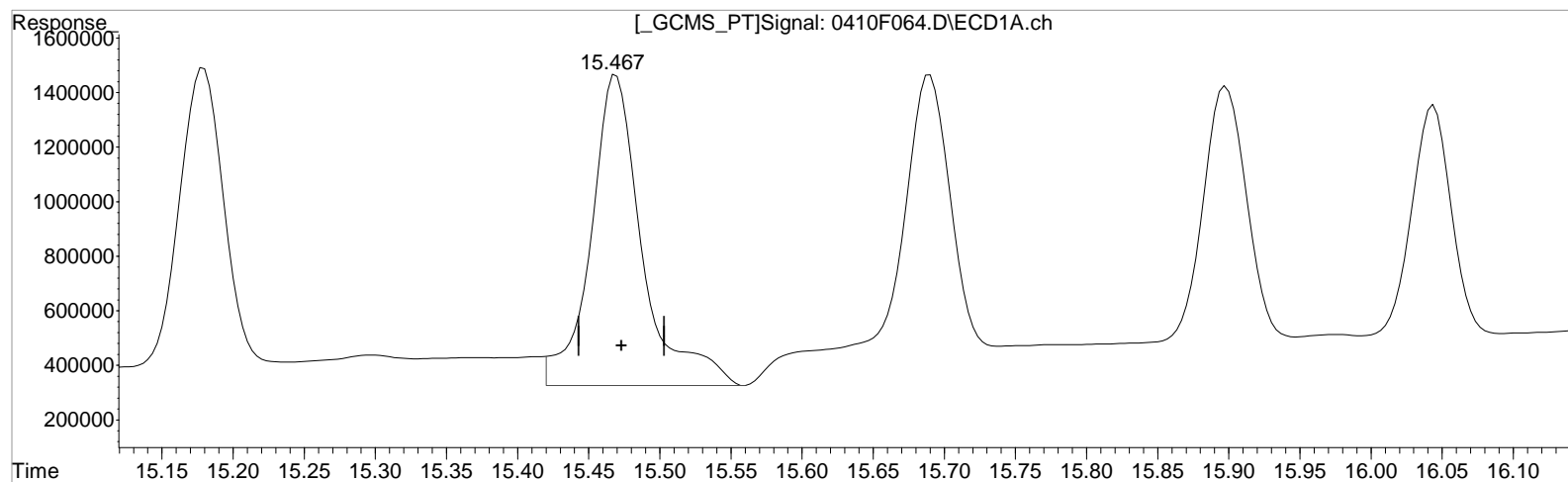
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(19) 4,4'-DDD

15.467min 6.692 ug/L

response 2858206

Manual Integration:

Before

04/20/23

(19) 4,4'-DDD #2

14.170min 4.413 ug/L

response 1303126

(+) = Expected Retention Time

Data File : I:\GC38\DATA\041023B\0410F064.D

Vial: 34

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 05:48 pm

Operator: CORP\ALKLS.NoUser

Sample : KQ2305743-03 DLCS 81

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 20 13:32:49 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

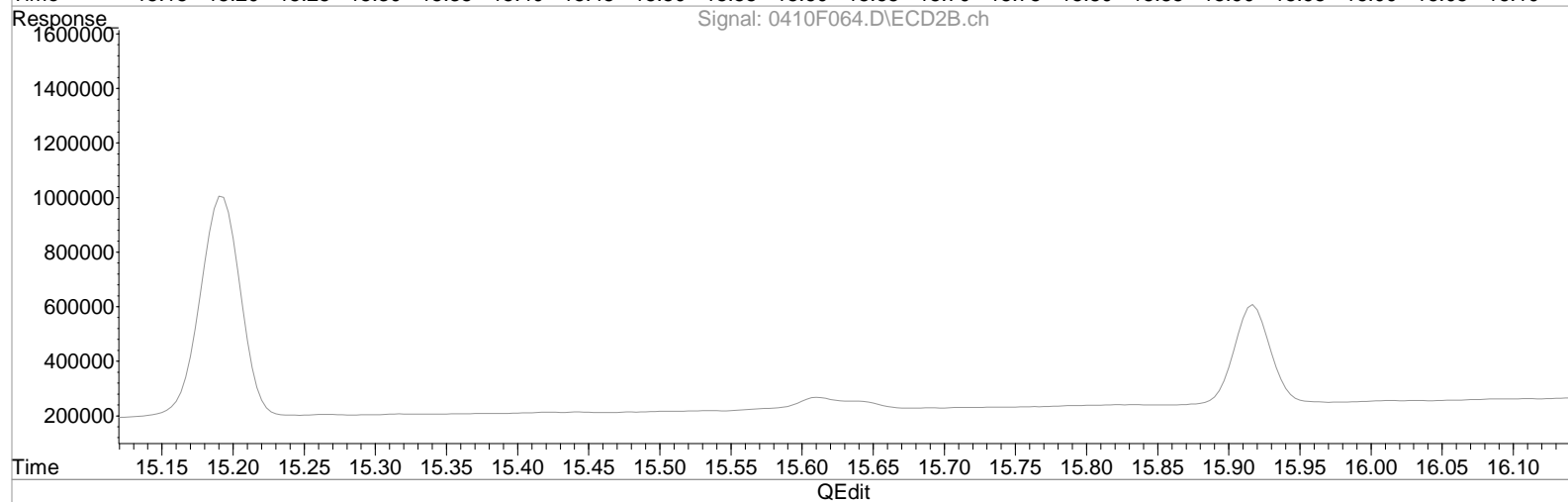
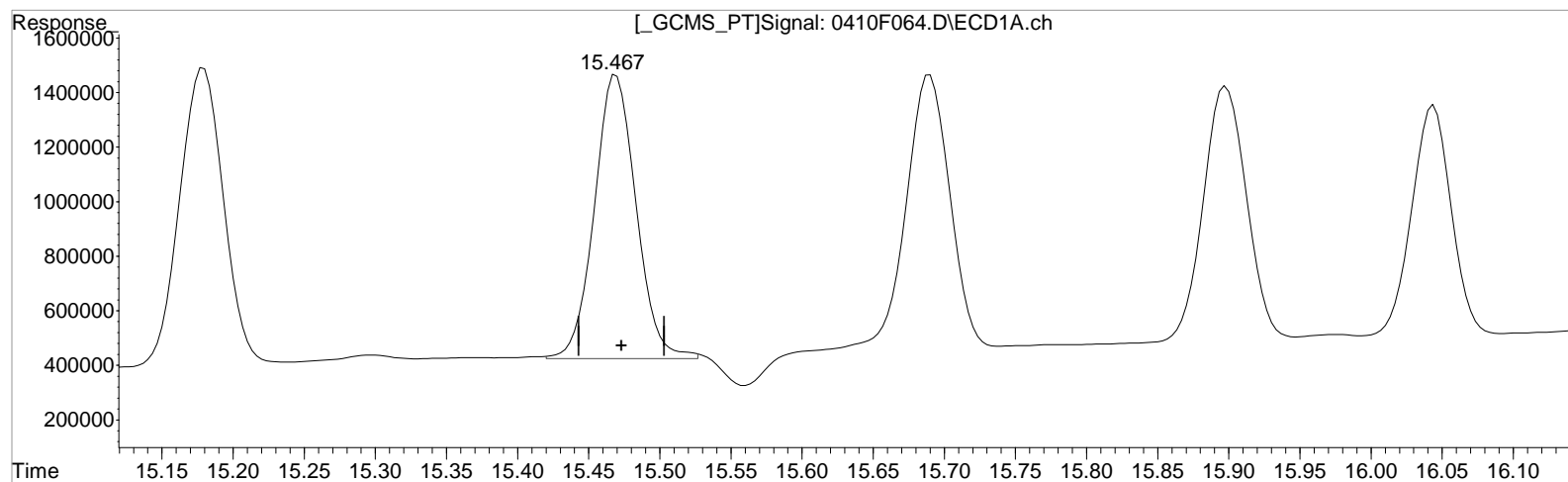
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(19) 4,4'-DDD

15.467min 4.937 ug/L m

response 2120987

(19) 4,4'-DDD #2

14.170min 4.413 ug/L

response 1303126

Manual Integration:

After

Baseline Correction

04/20/23

Validation Report

JW for MR

1st *JW* 04/13/23
2nd *JW* 04/13/23

Data File: I:\GC38\DATA\041023B\0410F061.D\
Lab ID: KQ2306674-03
RunType: CCB
Matrix: Soil

Date Acquired: 4/12/23 15:31:00
Batch ID: 800756
Analysis Method: 8081B/Pest OC LL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification		X
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification - DB XLB	beta-BHC	21		20	ICV OK
Continuing Calibration Recovery - DB XLB	Methoxychlor	36		20	NR
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.07			SA
	1-Bromo-2-nitrobenzene {2}	6.07			
	1-Bromo-2-nitrobenzene {3}	6.07			
	1-Bromo-2-nitrobenzene {4}	6.07			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Validation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File: I:\GC38\DATA\041023B\0410F061.D\
Lab ID: KQ2307176-04
RunType: CCB
Matrix: Water

Date Acquired: 4/12/23 15:31:00
Batch ID: 801556
Analysis Method: 8081B/Pest OC LL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification		X
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification - DB XLB	beta-BHC	21		20	ICV OK
Continuing Calibration Recovery - DB XLB	Methoxychlor	36		20	CCV+ND
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.07			SA
	1-Bromo-2-nitrobenzene {2}	6.07			
	1-Bromo-2-nitrobenzene {3}	6.07			
	1-Bromo-2-nitrobenzene {4}	6.07			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Validation Report

1st *rk* 04/13/23
2nd *SW* 04/13/23

Data File: I:\GC38\DATA\041023B\0410F061.D\
Lab ID: KQ2306663-03
RunType: CCB
Matrix: Water

Date Acquired: 4/12/23 15:31:00
Batch ID: 800644
Analysis Method: 8081B/Pest OC ULL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.07			SA
	1-Bromo-2-nitrobenzene {2}	6.07			
	1-Bromo-2-nitrobenzene {3}	6.07			
	1-Bromo-2-nitrobenzene {4}	6.07			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Quantitation Report

JW for MR

1st *FW* 04/13/23

2nd *FW* 04/13/23

Data File:	I:\GC38\DATA\041023B\0410F061.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 15:31:00	Vial:	3
Run Type:	CCB	Dilution:	1
Lab ID:	KQ2306674-03	Raw Units:	ug/L

Bottle ID:		Tier:	IV	Matrix:	Soil
Prod Code:	Pest OC LL	Collect Date:	2/22/23	Receive Date:	2/27/23

Analysis Lot:	800756	Prep Lot:		Report Group:	KQ2306674
Analysis Method:	8081B	Prep Method:			
		Prep Date:			

Title:	Low Level Organochlorine Pesticides by GC	Calibration ID:	KC2300233
		Report List ID:	25548

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.07	c	5.47	c	74751961	42440076	100.000	100.000
1-Bromo-2-nitrobenzene {2}	6.07	c	5.47	c	74751961	42440076	100.000	100.000
1-Bromo-2-nitrobenzene {3}	6.07	c	5.47	c	74751961	42440076	100.000	100.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000				10 - 134	Y
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000				10 - 121	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.59 U	Y
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.29 U	Y
beta-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.27 U	Y
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0U	0U	0.31 U	Y
Chlordane					0.000	0.000	0U	0U	4.8 U	Y
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {5}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {6}	0.00	0.00	0	0	0.000	0.000	0	0		
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0U	0U	0.60 U	Y
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0U	0U	0.40 U	Y
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0U	0U	0.61 U	Y
Dieldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.22 U	Y
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0U	0U	0.37 U	Y

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

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Data File: I:\GC38\DATA\041023B\0410F061.D\
Acqu Date: 4/12/23 15:31:00
Run Type: CCB
Lab ID: KQ2306674-03

Instrument: K-GC-382nd
Vial: 3
Dilution: 1
Raw Units: ug/L

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0U	0U	0.69 U	Y
Endrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.32 U	Y
Heptachlor	0.00	0.00	0	0	0.000	0.000	0U	0U	0.39 U	Y
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0U	0U	0.66 U	Y
Methoxychlor	0.00	0.00	0	0	0.000 ^{CCV}	0.000	0U	0U	0.71 U	Y
Toxaphene					0.000	0.000	0U	0U	34 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {5}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {6}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount: 2 g
Prep Final Amount: 10.00 mL

Dilution: 1
Basis Factor: 100.00

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

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Quantitation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File:	I:\GC38\DATA\041023B\0410F061.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 15:31:00	Vial:	10
Run Type:	CCB	Dilution:	1
Lab ID:	KQ2307176-04	Raw Units:	ug/L
Bottle ID:		Tier:	IV
Prod Code:	Pest OC LL	Collect Date:	3/23/23
		Matrix:	Water
		Receive Date:	3/24/23
Analysis Lot:	801556	Prep Lot:	
Analysis Method:	8081B	Prep Method:	
		Prep Date:	
		Report Group:	KQ2307176
Title:	Low Level Organochlorine Pesticides by GC		Calibration ID: KC2300233
			Report List ID: 20324

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
1-Bromo-2-nitrobenzene	6.07	c	5.47	c	74751961	42440076	100.000	100.000	100.000	100.000
1-Bromo-2-nitrobenzene	6.07	c	5.47	c	74751961	42440076	100.000	100.000	100.000	100.000
{2}										

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	Criteria	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000				14 - 107	Y
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000				31 - 132	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0014 U	Y
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0013 U	Y
beta-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0017 U	Y
delta-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0011 U	Y
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00099 U	Y
cis-Chlordane	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00099 U	Y
trans-Chlordane	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0018 U	Y
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0013 U	Y
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0015 U	Y
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0013 U	Y
Dieldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0020 U	Y
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00095 U	Y
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0013 U	Y
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0012 U	Y
Endrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0025 U	Y
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0048 U	Y
Endrin Ketone	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0016 U	Y
Heptachlor	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00075 U	Y

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 compoundD: 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

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Data File:	I:\GC38\DATA\041023B\0410F061.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 15:31:00	Vial:	10
Run Type:	CCB	Dilution:	1
Lab ID:	KQ2307176-04	Raw Units:	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0014 U	Y
Methoxychlor	0.00	0.00	0	0	0.000 ^{CCV}	0.000	0U	0U	0.0022 U	Y
Toxaphene					0.000	0.000	0U	0U	0.29 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {5}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {6}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	100 mL	Dilution:	1
Prep Final Amount:	5.00 mL	Basis Factor:	100.00

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

1st *rk* 04/13/23
2nd *SW* 04/13/23

Data File:	I:\GC38\DATA\041023B\0410F061.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 15:31:00	Vial:	6
Run Type:	CCB	Dilution:	1
Lab ID:	KQ2306663-03	Raw Units:	ug/L
Bottle ID:		Tier:	IV
Prod Code:	Pest OC ULL	Collect Date:	4/10/23
		Matrix:	Water
		Receive Date:	4/10/23
Analysis Lot:	800644	Prep Lot:	
Analysis Method:	8081B	Prep Method:	
		Prep Date:	
Report Group:	KQ2306663		
Title:	Ultra Low Level Organochlorine Pesticides by GC/ECD	Calibration ID:	KC2300233
		Report List ID:	23954

Internal Standard Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.07 c	5.47 c	74751961	42440076	100.000	100.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000				10 - 139	Y
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000				32 - 151	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0U	0U	0.57 U	Y
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0U	0U	0.46 U	Y
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0U	0U	0.75 U	Y

Prep Amount: 200 mL **Dilution:** 1
Prep Final Amount: 1.00 mL **Basis Factor:** 100.00

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

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Data File : I:\GC38\DATA\041023B\0410F061.D Vial: 142
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Apr 2023 03:31 pm Operator: CORP\ALKLS.NoUser
 Sample : IB Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 13 09:21:32 2023
 Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Tue Apr 04 10:52:53 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.073	5.470	74751961	42440076	100.000	100.000
29)	1-Bromo-2...	6.073	5.470	74751961	42440076	100.000	100.000
36)	1-Bromo-2...	6.073	5.470	74751961	42440076	100.000	100.000
43)	1-Bromo-2...	6.073	5.470	74751961	42440076	100.000	100.000

System Monitoring Compounds

Target Compounds

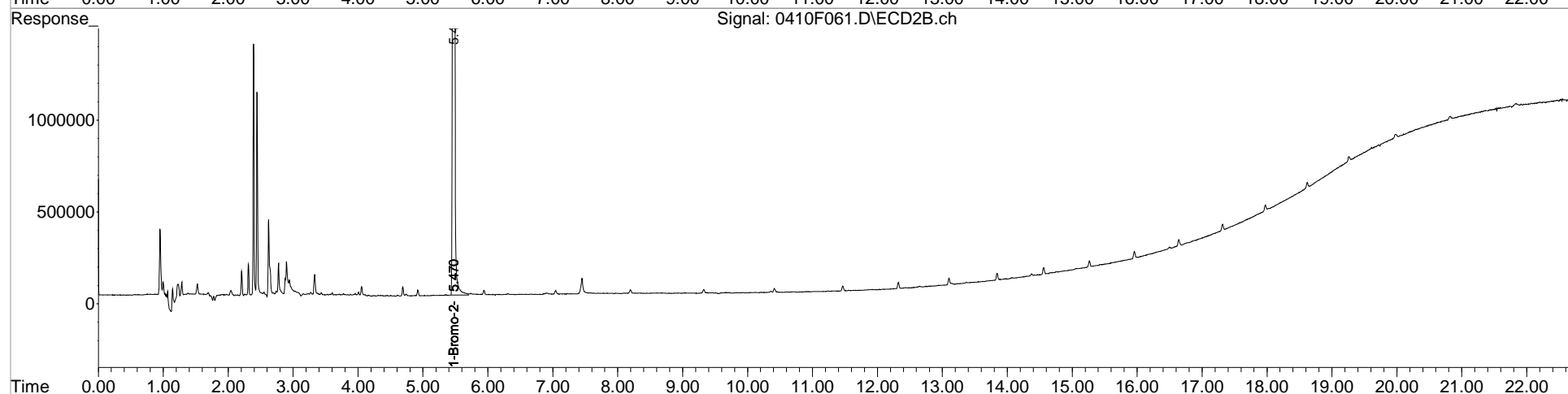
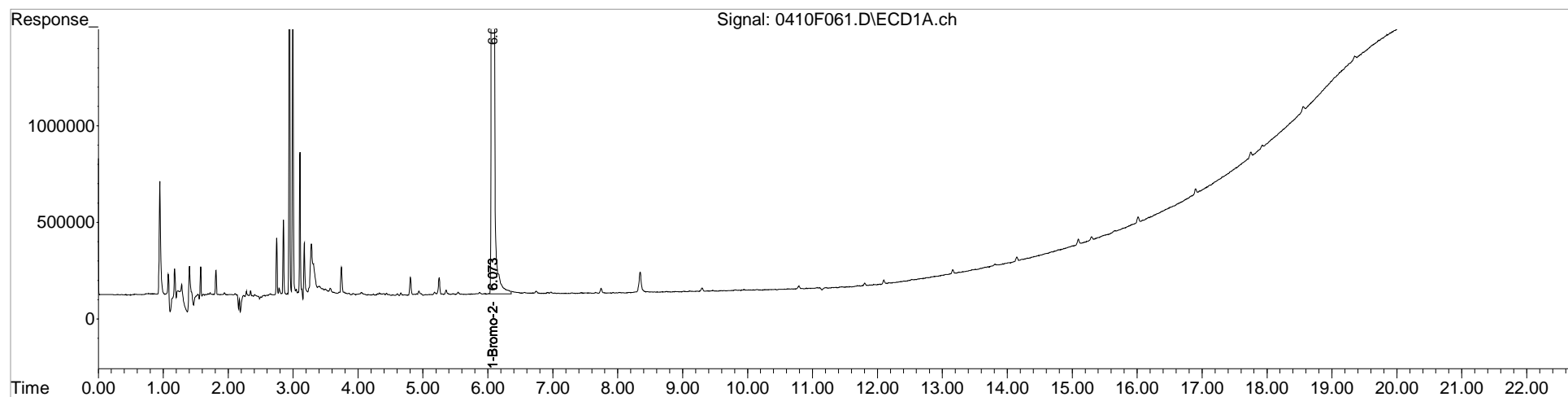
SemiQuant Compounds - Not Calibrated on this Instrument

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : I:\GC38\DATA\041023B\0410F061.D Vial: 142
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2023 03:31 pm Operator: CORP\ALKLS.NoUser
Sample : IB Inst : GC38
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 09:21:32 2023
Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 10:52:53 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Validation Report

JW for MR 1st *FW* 04/13/23
2nd *FW* 04/13/23

Data File: I:\GC38\DATA\041023B\0410F058.D\
Lab ID: KQ2306674-02
RunType: CCV
Matrix: Soil

Date Acquired: 4/12/23 13:15:00
Batch ID: 800756
Analysis Method: 8081B/Pest OC LL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification		X
Internal Standards	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification - DB XLB	beta-BHC	21		20	ICV OK
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.07			SA
	1-Bromo-2-nitrobenzene {2}	6.07			
	1-Bromo-2-nitrobenzene {3}	6.07			
	1-Bromo-2-nitrobenzene {4}	6.07			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Validation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File: I:\GC38\DATA\041023B\0410F058.D\
Lab ID: KQ2307176-01
RunType: CCV
Matrix: Water

Date Acquired: 4/12/23 13:15:00
Batch ID: 801556
Analysis Method: 8081B/Pest OC LL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification		X
Internal Standards	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification - DB XLB	beta-BHC	21		20	ICV OK
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.07			SA
	1-Bromo-2-nitrobenzene {2}	6.07			
	1-Bromo-2-nitrobenzene {3}	6.07			
	1-Bromo-2-nitrobenzene {4}	6.07			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Validation Report

1st *rk* 04/13/23
2nd *SW* 04/13/23

Data File: I:\GC38\DATA\041023B\0410F058.D\
Lab ID: KQ2306663-02
RunType: CCV
Matrix: Water

Date Acquired: 4/12/23 13:15:00
Batch ID: 800644
Analysis Method: 8081B/Pest OC ULL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.07			SA
	1-Bromo-2-nitrobenzene {2}	6.07			
	1-Bromo-2-nitrobenzene {3}	6.07			
	1-Bromo-2-nitrobenzene {4}	6.07			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Quantitation Report

JW for MR 1st *JW* 04/13/23
2nd *JW* 04/13/23

Data File:	I:\GC38\DATA\041023B\0410F058.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 13:15:00	Vial:	2
Run Type:	CCV	Dilution:	1
Lab ID:	KQ2306674-02	Raw Units:	ug/L
Bottle ID:		Tier:	IV
Prod Code:	Pest OC LL	Collect Date:	2/22/23
		Matrix:	Soil
		Receive Date:	2/27/23
Analysis Lot:	800756	Prep Lot:	
Analysis Method:	8081B	Prep Method:	
		Prep Date:	
		Report Group:	KQ2306674
Title:	Low Level Organochlorine Pesticides by GC		
		Calibration ID:	KC2300233
		Report List ID:	25548

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.07	c	5.47	c	65841458	36924866	100.000	100.000
1-Bromo-2-nitrobenzene {2}	6.07	c	5.47	c	65841458	36924866	100.000	100.000
1-Bromo-2-nitrobenzene {3}	6.07	c	5.47	c	65841458	36924866	100.000	100.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	20.15	18.39	1125220	837007	2.175	1.974			Y
Tetrachloro-m-xylene	9.10	7.42	1734818	1191227	1.935	2.110			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	12.66	11.03	1409466	857322	1.886	1.848	1.89	1.85	Y
alpha-BHC	10.04	8.78	1547204	896802	1.896	1.793	1.90	1.79	Y
beta-BHC	11.46	10.20	851301	473194	2.147	1.873	2.15	1.87	Y
gamma-BHC (Lindane)	10.79	9.61	1474524	863242	2.050	1.913	2.05	1.91	Y
Chlordane					0.000	0.000	0	0	N
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {5}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {6}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
4,4'-DDD	15.47	14.17	975790	577963	2.012	1.799	2.01	1.80	Y
4,4'-DDE	14.50	13.14	1292872	851193	1.948	1.993	1.95	1.99	Y
4,4'-DDT	16.04	14.66	807169	591103	2.153	1.860	2.15	1.86	Y
Dieldrin	14.75	13.34	1294745	772548	2.132	1.906	2.13	1.91	Y
Endosulfan I	14.26	12.82	1255453	757482	2.042	1.879	2.04	1.88	Y

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

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Data File: I:\GC38\DATA\041023B\0410F058.D\
Acqu Date: 4/12/23 13:15:00
Run Type: CCV
Lab ID: KQ2306674-02

Instrument: K-GC-38
Vial: 2
Dilution: 1
Raw Units: ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Endosulfan II	15.69	14.40	1118514	743097	2.146	2.029	2.15	2.03	Y
Endrin	15.18	13.90	1111774	691237	2.124	1.924	2.12	1.92	Y
Heptachlor	12.05	10.37	1611958	900918	2.187	1.895	2.19	1.90	Y
Heptachlor Epoxide	13.50	12.14	1435825	842421	2.134	1.891	2.13	1.89	Y
Methoxychlor	16.88	15.92	451412	324622	2.726	2.172	2.73	2.17	Y
Toxaphene					0.000	0.000	0	0	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {5}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {6}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

Prep Amount: 2 g
Prep Final Amount: 10.00 mL

Dilution: 1
Basis Factor: 100.00

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

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Quantitation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File:	I:\GC38\DATA\041023B\0410F058.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 13:15:00	Vial:	6
Run Type:	CCV	Dilution:	1
Lab ID:	KQ2307176-01	Raw Units:	ug/L

Bottle ID:		Tier:	IV	Matrix:	Water
Prod Code:	Pest OC LL	Collect Date:	3/23/23	Receive Date:	3/24/23

Analysis Lot:	801556	Prep Lot:		Report Group:	KQ2307176
Analysis Method:	8081B	Prep Method:			
		Prep Date:			

Title:	Low Level Organochlorine Pesticides by GC	Calibration ID:	KC2300233
		Report List ID:	20324

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.07	c	5.47	c	65841458	36924866	100.000	100.000
1-Bromo-2-nitrobenzene {2}	6.07	c	5.47	c	65841458	36924866	100.000	100.000

Surrogate Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	20.15		18.39		1125220	837007	2.175	1.974			Y
Tetrachloro-m-xylene	9.10		7.42		1734818	1191227	1.935	2.110			Y

Target Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	12.66		11.03		1409466	857322	1.886	1.848	1.89	1.85	Y
alpha-BHC	10.04		8.78		1547204	896802	1.896	1.793	1.90	1.79	Y
beta-BHC	11.46		10.20		851301	473194	2.147	1.873	2.15	1.87	Y
delta-BHC	11.96		10.79		1363552	806431	2.002	1.945	2.00	1.95	Y
gamma-BHC (Lindane)	10.79		9.61		1474524	863242	2.050	1.913	2.05	1.91	Y
cis-Chlordane	14.20		12.73		1387440	859666	2.171	1.915	2.17	1.92	Y
trans-Chlordane	14.11		12.56		1455814	874352	2.236	1.946	2.24	1.95	Y
4,4'-DDD	15.47		14.17		975790	577963	2.012	1.799	2.01	1.80	Y
4,4'-DDE	14.50		13.14		1292872	851193	1.948	1.993	1.95	1.99	Y
4,4'-DDT	16.04		14.66		807169	591103	2.153	1.860	2.15	1.86	Y
Dieldrin	14.75		13.34		1294745	772548	2.132	1.906	2.13	1.91	Y
Endosulfan I	14.26		12.82		1255453	757482	2.042	1.879	2.04	1.88	Y
Endosulfan II	15.69		14.40		1118514	743097	2.146	2.029	2.15	2.03	Y
Endosulfan Sulfate	16.44		15.19		1092396	776449	2.083	2.098	2.08	2.10	Y
Endrin	15.18		13.90		1111774	691237	2.124	1.924	2.12	1.92	Y
Endrin Aldehyde	15.90		14.82		936840	584910	2.082	1.912	2.08	1.91	Y
Endrin Ketone	17.24		16.29		1046180	803176	1.981	1.969	1.98	1.97	Y
Heptachlor	12.05		10.37		1611958	900918	2.187	1.895	2.19	1.90	Y

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

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Data File:	I:\GC38\DATA\041023B\0410F058.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 13:15:00	Vial:	6
Run Type:	CCV	Dilution:	1
Lab ID:	KQ2307176-01	Raw Units:	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor Epoxide	13.50	12.14	1435825	842421	2.134	1.891	2.13	1.89	Y
Methoxychlor	16.88	15.92	451412	324622	2.726	2.172	2.73	2.17	Y
Toxaphene					0.000	0.000	0	0	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {5}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {6}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

Prep Amount:	100 mL	Dilution:	1
Prep Final Amount:	5.00 mL	Basis Factor:	100.00

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

Printed: 4/27/23 10:46

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Quantitation Report

1st *rk* 04/13/23
2nd *SW* 04/13/23

Data File:	I:\GC38\DATA\041023B\0410F058.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 13:15:00	Vial:	5
Run Type:	CCV	Dilution:	1
Lab ID:	KQ2306663-02	Raw Units:	ug/L
Bottle ID:		Tier:	IV
Prod Code:	Pest OC ULL	Collect Date:	4/10/23
		Matrix:	Water
		Receive Date:	4/10/23
Analysis Lot:	800644	Prep Lot:	
Analysis Method:	8081B	Prep Method:	
		Prep Date:	
Report Group:	KQ2306663		
Title:	Ultra Low Level Organochlorine Pesticides by GC/ECD	Calibration ID:	KC2300233
		Report List ID:	23954

Internal Standard Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.07	c	5.47	c	65841458	36924866
					100.000	100.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	20.15		18.39		1125220	837007	2.175	1.974	Y
Tetrachloro-m-xylene	9.10		7.42		1734818	1191227	1.935	2.110	Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
4,4'-DDD	15.47		14.17		975790	577963	2.012	1.799	Y
4,4'-DDE	14.50		13.14		1292872	851193	1.948	1.993	Y
4,4'-DDT	16.04		14.66		807169	591103	2.153	1.860	Y

Prep Amount: 200 mL **Dilution:** 1
Prep Final Amount: 1.00 mL **Basis Factor:** 100.00

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

Printed: 4/13/23 9:28

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Data File : I:\GC38\DATA\041023B\0410F058.D

Vial: 144

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 01:15 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 2 PPB CCV GCPS9-26K

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 12 15:59:03 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.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...	6.073	5.470	65841458	36924866	100.000	100.000
29)	1-Bromo-2...	6.073	5.470	65841458	36924866	100.000	100.000
36)	1-Bromo-2...	6.073	5.470	65841458	36924866	100.000	100.000
43)	1-Bromo-2...	6.073	5.470	65841458	36924866	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachlo...	9.097	7.423	1734818	1191227	1.935	2.110
28) s	Decachlor...	20.153	18.387	1125220	837007	2.175	1.974
Target Compounds							
3)	alpha-BHC	10.040	8.783	1547204	896802	1.896	1.793
4)	Hexachlor...	10.217	8.547	2136088	1264604	1.978	1.942
5)	beta-BHC	11.460	10.200	851301	473194	2.147	1.873
6)	gamma-BHC...	10.790	9.610	1474524	863242	2.050	1.913
7)	delta-BHC	11.960	10.790	1363552	806431	2.002	1.945
8)	Heptachlor	12.050	10.367	1611958	900918	2.187	1.895
9)	Aldrin	12.660	11.027	1409466	857322	1.886	1.848
10)	Isodrin	13.287	11.873	1230245	737315	2.060	1.940
11)	Heptachlo...	13.503	12.137	1435825	842421	2.134	1.891
12)	gamma-Chl...	14.107	12.560	1455814	874352	2.236	1.946
13)	Endosulfan I	14.260	12.817	1255453	757482	2.042	1.879
14)	alpha-Chl...	14.197	12.733	1387440	859666	2.171	1.915
15)	Dieldrin	14.747	13.337	1294745	772548	2.132	1.906
16)	4,4'-DDE	14.500	13.137	1292872	851193	1.948	1.993
17)	Endrin	15.177	13.903	1111774	691237	2.124	1.924
18)	Endosulfa...	15.690	14.400	1118514	743097	2.146	2.029
19)	4,4'-DDD	15.470	14.170	975790	577963	2.012	1.799
20)	Endrin Al...	15.897	14.820	936840	584910	2.082	1.912
21)	Endosulfa...	16.437	15.190	1092396	776449	2.083	2.098
22)	4,4'-DDT	16.043	14.660	807169	591103	2.153	1.860
23)	Endrin Ke...	17.240	16.293	1046180	803176	1.981	1.969
24)	Methoxychlor	16.883	15.917	451412	324622	2.726	2.172

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : I:\GC38\DATA\041023B\0410F058.D

Vial: 144

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 12 Apr 2023 01:15 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 2 PPB CCV GCPS9-26K

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 12 15:59:03 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 10:52:53 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

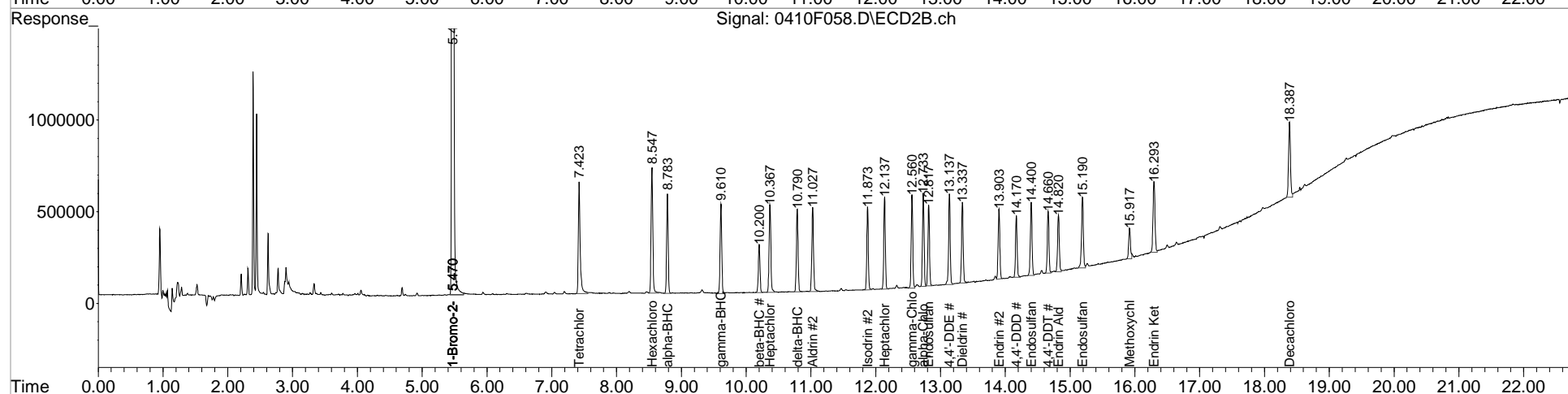
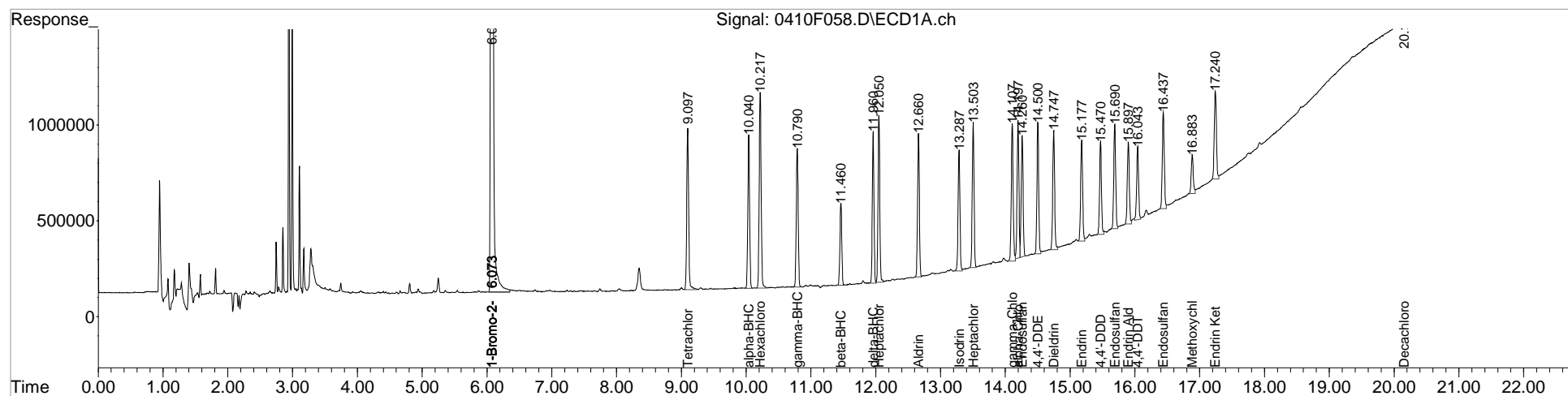
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



Validation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File: I:\GC38\DATA\041023B\0410F059.D\
Lab ID: KQ2307176-01.R01
RunType: CCV
Matrix: Water

Date Acquired: 4/12/23 14:00:00
Batch ID: 801556
Analysis Method: 8081B/Pest OC LL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification		X
Internal Standards	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification - DB XLB	beta-BHC	21		20	ICV OK
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.08			SA
	1-Bromo-2-nitrobenzene {2}	6.08			
	1-Bromo-2-nitrobenzene {3}	6.08			
	1-Bromo-2-nitrobenzene {4}	6.08			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File:	I:\GC38\DATA\041023B\0410F059.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 14:00:00	Vial:	9
Run Type:	CCV	Dilution:	1
Lab ID:	KQ2307176-01.R01	Raw Units:	ug/L

Bottle ID:		Tier:	IV	Matrix:	Water
Prod Code:	Pest OC LL	Collect Date:	3/23/23	Receive Date:	3/24/23

Analysis Lot:	801556	Prep Lot:		Report Group:	KQ2307176
Analysis Method:	8081B	Prep Method:			
		Prep Date:			

Title:	Low Level Organochlorine Pesticides by GC	Calibration ID:	KC2300233
		Report List ID:	20324

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.08	c	5.47	c	72555054	41194289	100.000	100.000
1-Bromo-2-nitrobenzene {2}	6.08	c	5.47	c	72555054	41194289	100.000	100.000

Surrogate Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	0.00		0.00		0	0	0.000	0.000			N
Tetrachloro-m-xylene	0.00		0.00		0	0	0.000	0.000			N

Target Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
alpha-BHC	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
beta-BHC	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
delta-BHC	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
gamma-BHC (Lindane)	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
cis-Chlordane	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
trans-Chlordane	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
4,4'-DDD	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
4,4'-DDE	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
4,4'-DDT	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
Dieldrin	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
Endosulfan I	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
Endosulfan II	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
Endosulfan Sulfate	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
Endrin	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
Endrin Aldehyde	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
Endrin Ketone	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N
Heptachlor	0.00		0.00		0	0	0.000	0.000	0.000	0.000	N

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

Printed: 4/27/23 10:46

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Data File: I:\GC38\DATA\041023B\0410F059.D\
Acqu Date: 4/12/23 14:00:00
Run Type: CCV
Lab ID: KQ2307176-01.R01

Instrument: K-GC-382nd 04/29/23
Vial: 9
Dilution: 1
Raw Units: ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Methoxychlor	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Toxaphene					89.380	89.280	89.4	89.3	Y
Toxaphene {1}	15.60	14.20	736814	739095	92.461	85.776	92.5	85.8	
Toxaphene {2}	15.68	14.29	873564	707304	109.853	105.536	110	106	
Toxaphene {3}	15.81	14.45	1326250	745629	104.930	89.359	105	89.4	
Toxaphene {4}	16.10	14.83	758311	506910	81.367	82.283	81.4	82.3	
Toxaphene {5}	16.28	15.68	888579	793656	71.307	84.583	71.3	84.6	
Toxaphene {6}	17.31	15.92	1205879	1012963	76.337	88.141	76.3	88.1	

Prep Amount: 100 mL
Prep Final Amount: 5.00 mL
Dilution: 1
Basis Factor: 100.00

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

Printed: 4/27/23 10:46

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Data File : I:\GC38\DATA\041023B\0410F059.D Vial: 147
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Apr 2023 02:00 pm Operator: CORP\ALKLS.NoUser
 Sample : TOX 100 PPB CCV GCPS9-25J Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 12 16:00:10 2023
 Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Tue Apr 04 10:52:53 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.077	5.470	72555054	41194289	100.000	100.000
29)	1-Bromo-2...	6.077	5.470	72555054	41194289	100.000	100.000
36)	1-Bromo-2...	6.077	5.470	72555054	41194289	100.000	100.000
43)	1-Bromo-2...	6.077	5.470	72555054	41194289	100.000	100.000

System Monitoring Compounds

Target Compounds							
30)	Toxaphene	15.603	14.203	736814	739095	92.461	85.776
31)	Toxaphene...	15.680	14.290	873564	707304	109.853	105.536
32)	Toxaphene...	15.813	14.450	1326250	745629	104.930	89.359
33)	Toxaphene...	16.103	14.830	758311	506910	81.367	82.283
34)	Toxaphene...	16.283	15.683	888579	793656	71.307	84.583
35)	Toxaphene...	17.307	15.923	1205879	1012963	76.337	88.141

SemiQuant Compounds - Not Calibrated on this Instrument

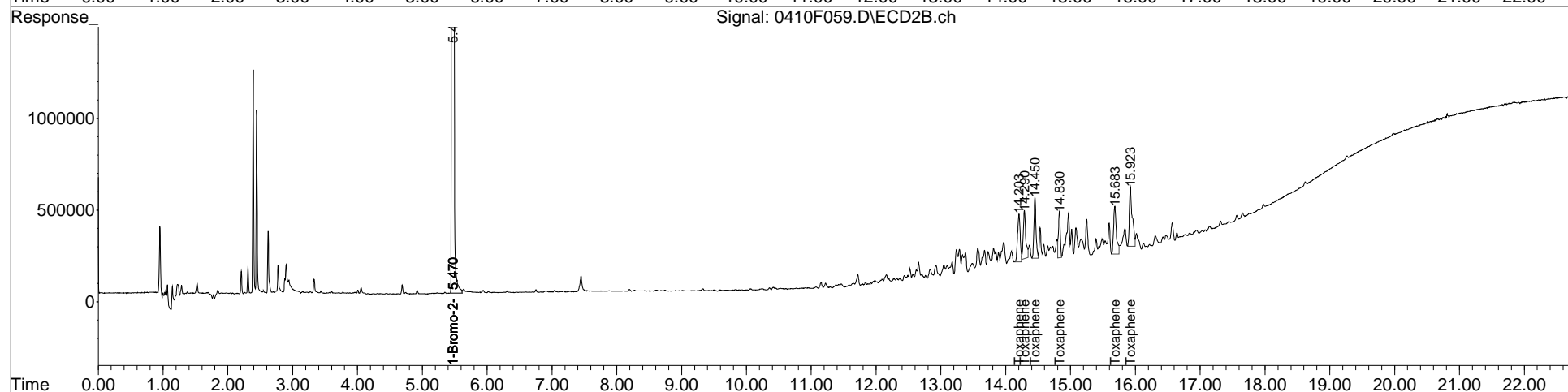
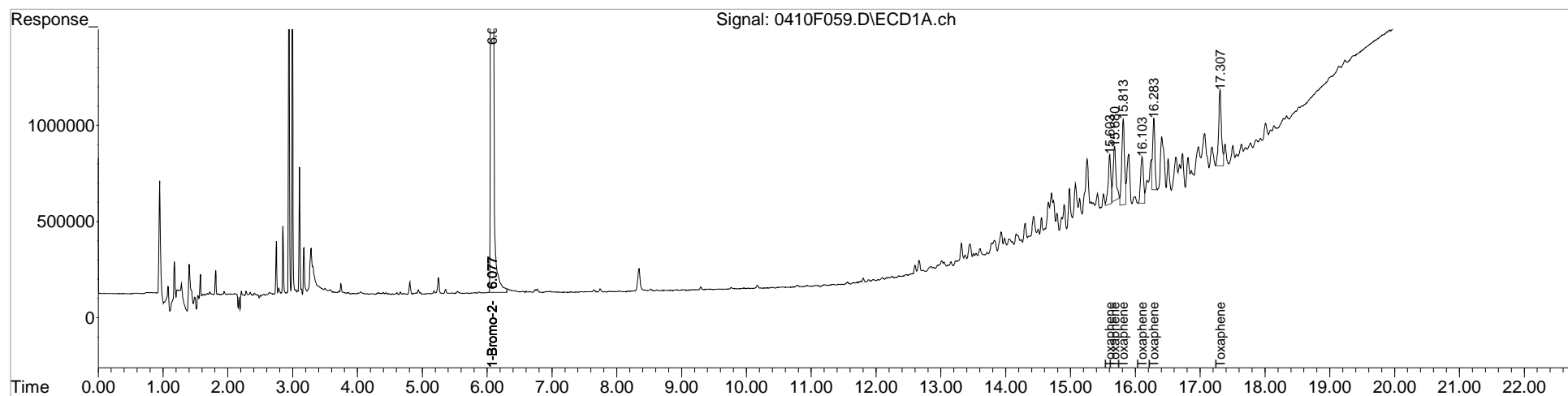
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : I:\GC38\DATA\041023B\0410F059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2023 02:00 pm
Sample : TOX 100 PPB CCV GCPS9-25J
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 12 16:00:10 2023
Quant Results File: GC38-040323-8081.RES

Vial: 147
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 10:52:53 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Validation Report

JW for MR

1st *JW* 04/13/23
2nd *JW* 04/13/23

Data File: I:\GC38\DATA\041023B\0410F057.D\
Lab ID: KQ2306674-01
RunType: PEM
Matrix: Soil

Date Acquired: 4/12/23 12:29:00
Batch ID: 800756
Analysis Method: 8081B/Pest OC LL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification		X
Above Highest ICAL Level		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification - DB XLB	beta-BHC	21		20	ICV OK
Above Highest ICAL Level - DB XLB	4,4'-DDT	11.778		10	Elevated MRL
Above Highest ICAL Level - DB-35MS	4,4'-DDT	10.069		10	\
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.08			SA
	1-Bromo-2-nitrobenzene {2}	6.08			
	1-Bromo-2-nitrobenzene {3}	6.08			
	1-Bromo-2-nitrobenzene {4}	6.08			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Validation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File: I:\GC38\DATA\041023B\0410F057.D\
Lab ID: KQ2307176-03
RunType: PEM
Matrix: Water

Date Acquired: 4/12/23 12:29:00
Batch ID: 801556
Analysis Method: 8081B/Pest OC LL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification		X
Above Highest ICAL Level		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification - DB XLB	beta-BHC	21		20	ICV OK
Above Highest ICAL Level - DB XLB	4,4'-DDT	11.778		10	intE
Above Highest ICAL Level - DB-35MS	4,4'-DDT	10.069		10	intE
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.08			SA
	1-Bromo-2-nitrobenzene {2}	6.08			
	1-Bromo-2-nitrobenzene {3}	6.08			
	1-Bromo-2-nitrobenzene {4}	6.08			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Validation Report

1st *rk* 04/13/23
2nd *SW* 04/13/23

Data File: I:\GC38\DATA\041023B\0410F057.D\
Lab ID: KQ2306663-01
RunType: PEM
Matrix: Water

Date Acquired: 4/12/23 12:29:00
Batch ID: 800644
Analysis Method: 8081B/Pest OC ULL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Above Highest ICAL Level - DB XLB	4,4'-DDT	11.778		10	intE
Above Highest ICAL Level - DB-35MS	4,4'-DDT	10.069		10	\
Analyte Coelutions - DB XLB	1-Bromo-2-nitrobenzene	6.08			SA
	1-Bromo-2-nitrobenzene {2}	6.08			
	1-Bromo-2-nitrobenzene {3}	6.08			
	1-Bromo-2-nitrobenzene {4}	6.08			
Analyte Coelutions - DB-35MS	1-Bromo-2-nitrobenzene	5.47			
	1-Bromo-2-nitrobenzene {2}	5.47			
	1-Bromo-2-nitrobenzene {3}	5.47			
	1-Bromo-2-nitrobenzene {4}	5.47			

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	I:\GC38\DATA\041023B\0410F057.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 12:29:00	Vial:	1
Run Type:	PEM	Dilution:	1
Lab ID:	KQ2306674-01	Raw Units:	ug/L

Bottle ID:		Tier:	IV	Matrix:	Soil
Prod Code:	Pest OC LL	Collect Date:	2/22/23	Receive Date:	2/27/23

Analysis Lot:	800756	Prep Lot:		Report Group:	KQ2306674
Analysis	8081B	Prep Method:			
		Prep Date:			

Title:	Low Level Organochlorine Pesticides by GC	Calibration ID:	KC2300233
		Report List ID:	25548

Internal Standard Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
{2}						
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
{3}						
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
{4}						

Breakdown Results

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Percent Breakdown 1	Percent Breakdown 2
4,4'-DDD	15.47	14.17	205004	66344		
4,4'-DDE	14.50	13.14	104687	62310	pass <15%	pass <15%
4,4'-DDT	16.04	14.66	4647339	3446287	6.2	3.6
Endrin	15.18	13.90	2915701	1950522	3.4	3.7
Endrin Aldehyde	0.00	0.00	33048	23399		
Endrin Ketone	17.24	0.00	70228	51670		

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

Printed: 4/13/23 10:24

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Quantitation Report

1st *rk* 04/27/23
2nd *SM* 04/29/23

Data File:	I:\GC38\DATA\041023B\0410F057.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 12:29:00	Vial:	8
Run Type:	PEM	Dilution:	1
Lab ID:	KQ2307176-03	Raw Units:	ug/L

Bottle ID:		Tier:	IV	Matrix:	Water
Prod Code:	Pest OC LL	Collect Date:	3/23/23	Receive Date:	3/24/23

Analysis Lot:	801556	Prep Lot:		Report Group:	KQ2307176
Analysis	8081B	Prep Method:			
		Prep Date:			

Title:	Low Level Organochlorine Pesticides by GC	Calibration ID:	KC2300233
		Report List ID:	20324

Internal Standard Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
{2}						
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
{3}						
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
{4}						

Breakdown Results

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Percent Breakdown 1	Percent Breakdown 2
4,4'-DDD	15.47	14.17	205004	66344		
4,4'-DDE	14.50	13.14	104687	62310	pass <15%	pass <15%
4,4'-DDT	16.04	14.66	4647339	3446287	6.2	3.6
Endrin	15.18	13.90	2915701	1950522	3.4	3.7
Endrin Aldehyde	0.00	0.00	33048	23399		
Endrin Ketone	17.24	0.00	70228	51670		

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

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Quantitation Report

1st *rk* 04/13/23
2nd *SW* 04/13/23

Data File:	I:\GC38\DATA\041023B\0410F057.D\	Instrument:	K-GC-38
Acqu Date:	4/12/23 12:29:00	Vial:	4
Run Type:	PEM	Dilution:	1
Lab ID:	KQ2306663-01	Raw Units:	ug/L
Bottle ID:		Tier:	IV
Prod Code:	Pest OC ULL	Collect Date:	4/10/23
		Matrix:	Water
		Receive Date:	4/10/23
Analysis Lot:	800644	Prep Lot:	
Analysis	8081B	Prep Method:	
		Prep Date:	
		Report Group:	KQ2306663
Title:	Ultra Low Level Organochlorine Pesticides by GC/ECD		
		Calibration ID:	KC2300233
		Report List ID:	23954

Internal Standard Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
{2}						
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
{3}						
1-Bromo-2-nitrobenzene	6.08	5.47	72798826O	41198112O	100.000	100.000 ^{CCV}
{4}						

Breakdown Results

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Percent Breakdown 1	Percent Breakdown 2
4,4'-DDD	15.47	14.17	205004	66344		
4,4'-DDE	14.50	13.14	104687	62310	pass <15%	pass <15%
4,4'-DDT	16.04	14.66	4647339	3446287	6.2	3.6
Endrin	15.18	13.90	2915701	1950522	3.4	3.7
Endrin Aldehyde	0.00	0.00	33048	23399		
Endrin Ketone	17.24	0.00	70228	51670		

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

Printed: 4/13/23 9:28

\\alprews001\starlims\$\LIMSReps\QuantValidation.rpt

Data File : I:\GC38\DATA\041023B\0410F057.D Vial: 143
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Apr 2023 12:29 pm Operator: CORP\ALKLS.NoUser
 Sample : PEM GCSP9-25G Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 12 17:22:34 2023
 Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Tue Apr 04 10:52:53 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.077	5.470	72798826	41198112	100.000	100.000
29)	1-Bromo-2...	6.077	5.470	72798826	41198112	100.000	100.000
36)	1-Bromo-2...	6.077	5.470	72798826	41198112	100.000	100.000
43)	1-Bromo-2...	6.077	5.470	72798826	41198112	100.000	100.000
System Monitoring Compounds							
Target Compounds							
16)	4,4'-DDE	14.500	13.137	104687	62310	0.143	0.131
17)	Endrin	15.177	13.903	2915701	1950522	5.215	4.866
19)	4,4'-DDD	15.473	14.170	205004	66344	0.291	0.185 #
22)	4,4'-DDT	16.043	14.660	4647339	3446287	11.778	10.069

SemiQuant Compounds - Not Calibrated on this Instrument

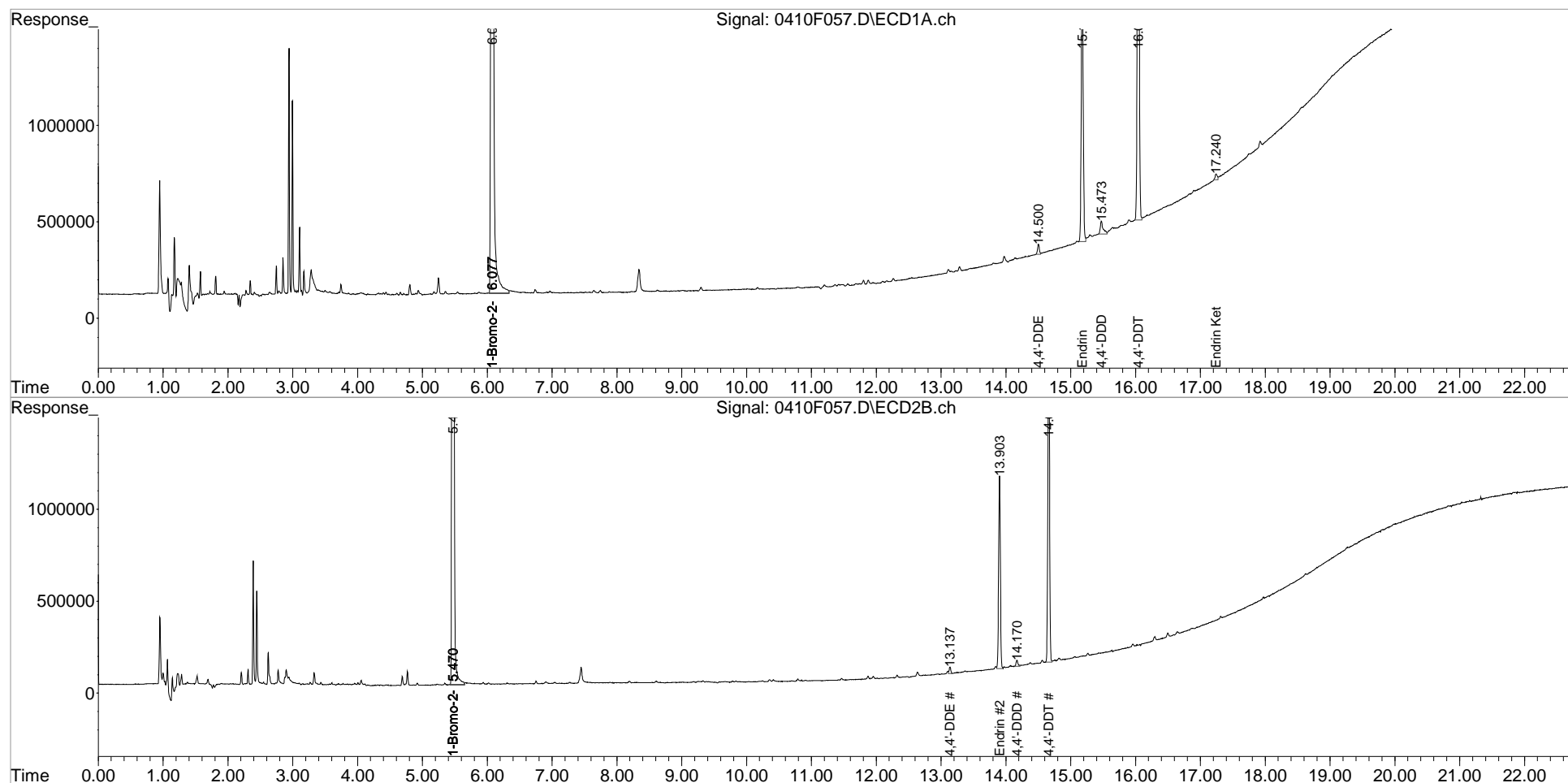
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : I:\GC38\DATA\041023B\0410F057.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2023 12:29 pm
Sample : PEM GCSP9-25G
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 12 17:22:34 2023
Quant Results File: GC38-040323-8081.RES

Vial: 143
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 10:52:53 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



KC2300733

Name	Vial	Method Path	Method File	Data Path	Data File
PRIMER	141	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F001
PRIMER	141	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F002
PEM GCSP9-25G	143	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F003
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F004
8081 .2 PPB GCPS9-24B @50X	102	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F005
8081 .5 PPB GCPS9-24B @20X	103	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F006
8081 1 PPB GCPS9-24B @10X	104	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F007
8081 2 PPB GCPS9-24B @5X	105	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F008
8081 5 PPB GCPS9-24B @2X	106	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F009
8081 10 PPB GCPS9-24B	107	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F010
8081 ICV 2 PPB GCPS9-22B	108	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F011
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F012
PEM GCSP9-25G	143	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F013
8081 0.2 PPB CCV GCPS9-26J	1	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F014
8081 0.1 PPB CCV GCPS9-26J	2	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F015
8081 2 PPB CCV GCPS9-26K	144	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F016
24 2 PPB CCV GCPS9-26D	145	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F017
M/P 2/10 PPB CCV GCPS9-26G	146	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F018
TOX 100 PPB CCV GCPS9-25J	147	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F019
CHLOR 20 PPBCCV GCPS9-26F	148	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F020
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F021
KQ2304060-07 MB	3	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F022
KQ2304060-05 LCS 81/M/P	4	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F023
KQ2304060-06 LCS T/C	5	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F024
KQ2304060-01 MS 81/M/P	6	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F025
KQ2304060-02 DMS 81/M/P	7	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F026
KQ2304060-03 MS T/C	8	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F027
KQ2304060-04 DMS T/C	9	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F028
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F029
PEM GCSP9-25G	143	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F030
8081 2 PPB CCV GCPS9-26K	144	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F031
24 2 PPB CCV GCPS9-26D	145	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F032
M/P 2/10 PPB CCV GCPS9-26G	146	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F033
TOX 100 PPB CCV GCPS9-25J	147	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F034
CHLOR 20 PPBCCV GCPS9-26F	148	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F035
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F036
K2302563-001	10	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F037
K2302563-002	11	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F038
K2302563-003	12	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F039

	Name	Vial	Method Path	Method File	Data Path	Data File
	K2302563-004	13	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F040
	K2302441-001	14	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F041
	K2302441-002	15	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F042
	K2302441-003	16	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F043
	K2302441-004	17	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F044
	K2302441-005	18	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F045
	IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F046
	PEM GCSP9-25G	143	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F047
	8081 2 PPB CCV GCPS9-26K	144	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F048
	24 2 PPB CCV GCPS9-26D	145	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F049
	M/P 2/10 PPB CCV GCPS9-26G	146	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F050
	TOX 100 PPB CCV GCPS9-25J	147	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F051
	CHLOR 20 PPBCCV GCPS9-26F	148	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F052
	IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F053
	K2302441-006	19	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F054
	IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\040323\CAL	0403F055

Instrument: K-GC-38

Calibration ID: KC2300215

Calibration Date: 03/08/2023

Hyst: MJONES

Status: ACTIVEReview Status: ApprovedCalibration Levels Add Level

Use ?	Sample Name	Data File	Type	Column/Signal ID 1	Column/Signal ID 2	Date Acquired	Time Acquired	Lab Code	Standard(s)
<input checked="" type="checkbox"/>	24 2 PPB GCP59...	J:\GC38\DATA\030823\ICAL\0308F005.D	ICAL	DB XLB	DB-35MS	03/08/2023	18:45	KC2300215-08	
<input checked="" type="checkbox"/>	24 5 PPB GCP59...	J:\GC38\DATA\030823\ICAL\0308F006.D	ICAL	DB XLB	DB-35MS	03/08/2023	19:30	KC2300215-09	
<input checked="" type="checkbox"/>	24 1 PPB GCP59...	J:\GC38\DATA\030823\ICAL\0308F007.D	ICAL	DB XLB	DB-35MS	03/08/2023	20:14	KC2300215-10	
<input checked="" type="checkbox"/>	24 2 PPB GCP59...	J:\GC38\DATA\030823\ICAL\0308F008.D	ICAL	DB XLB	DB-35MS	03/08/2023	20:59	KC2300215-11	
<input checked="" type="checkbox"/>	24 5 PPB GCP59...	J:\GC38\DATA\030823\ICAL\0308F009.D	ICAL	DB XLB	DB-35MS	03/08/2023	21:43	KC2300215-12	
<input checked="" type="checkbox"/>	24 10 PPB GCP5...	J:\GC38\DATA\030823\ICAL\0308F010.D	ICAL	DB XLB	DB-35MS	03/08/2023	22:28	KC2300215-13	
<input checked="" type="checkbox"/>	24 ICV 2 PPB GC...	J:\GC38\DATA\030823\ICAL\0308F011.D	ICV	DB XLB	DB-35MS	03/08/2023	23:12	KC2300215-14	
<input checked="" type="checkbox"/>	M/P 2/1 PPB GC...	J:\GC38\DATA\030823\ICAL\0308F012.D	ICAL	DB XLB	DB-35MS	03/08/2023	23:56	KC2300215-15	
<input checked="" type="checkbox"/>	M/P 5/2.5 PPB...	J:\GC38\DATA\030823\ICAL\0308F013.D	ICAL	DB XLB	DB-35MS	03/09/2023	00:41	KC2300215-16	
<input checked="" type="checkbox"/>	M/P 1/5 PPB GC...	J:\GC38\DATA\030823\ICAL\0308F014.D	ICAL	DB XLB	DB-35MS	03/09/2023	01:25	KC2300215-17	
<input checked="" type="checkbox"/>	M/P 2/10 PPB G...	J:\GC38\DATA\030823\ICAL\0308F015.D	ICAL	DB XLB	DB-35MS	03/09/2023	02:09	KC2300215-18	
<input checked="" type="checkbox"/>	M/P 5/25 PPB G...	J:\GC38\DATA\030823\ICAL\0308F016.D	ICAL	DB XLB	DB-35MS	03/09/2023	02:53	KC2300215-19	
<input checked="" type="checkbox"/>	M/P 10/50 PPB...	J:\GC38\DATA\030823\ICAL\0308F017.D	ICAL	DB XLB	DB-35MS	03/09/2023	03:37	KC2300215-20	
<input checked="" type="checkbox"/>	PERTH 100 PPB...	J:\GC38\DATA\030823\ICAL\0308F018.D	ICAL	DB XLB	DB-35MS	03/09/2023	04:22	KC2300215-21	
<input checked="" type="checkbox"/>	PERTH ICV 25 PP...	J:\GC38\DATA\030823\ICAL\0308F019.D	ICV	DB XLB	DB-35MS	03/09/2023	05:06	KC2300215-22	
<input checked="" type="checkbox"/>	MISC ICV 2 PPB...	J:\GC38\DATA\030823\ICAL\0308F020.D	ICV	DB XLB	DB-35MS	03/09/2023	05:50	KC2300215-23	
<input checked="" type="checkbox"/>	TOX 10 PPB GCP...	J:\GC38\DATA\030823\ICAL\0308F021.D	ICAL	DB XLB	DB-35MS	03/09/2023	06:34	KC2300215-24	
<input checked="" type="checkbox"/>	TOX 25 PPB GCP...	J:\GC38\DATA\030823\ICAL\0308F022.D	ICAL	DB XLB	DB-35MS	03/09/2023	07:18	KC2300215-25	
<input checked="" type="checkbox"/>	TOX 50 PPB GCP...	J:\GC38\DATA\030823\ICAL\0308F023.D	ICAL	DB XLB	DB-35MS	03/09/2023	08:03	KC2300215-26	
<input checked="" type="checkbox"/>	TOX 100 PPB GC...	J:\GC38\DATA\030823\ICAL\0308F024.D	ICAL	DB XLB	DB-35MS	03/09/2023	08:47	KC2300215-27	
<input checked="" type="checkbox"/>	TOX 250 PPB GC...	J:\GC38\DATA\030823\ICAL\0308F025.D	ICAL	DB XLB	DB-35MS	03/09/2023	09:32	KC2300215-28	
<input checked="" type="checkbox"/>	TOX 500 PPB GC...	J:\GC38\DATA\030823\ICAL\0308F026.D	ICAL	DB XLB	DB-35MS	03/09/2023	10:16	KC2300215-29	
<input checked="" type="checkbox"/>	TOX ICV 100 PPB...	J:\GC38\DATA\030823\ICAL\0308F027.D	ICV	DB XLB	DB-35MS	03/09/2023	11:01	KC2300215-30	
<input checked="" type="checkbox"/>	CHLOR 2 PPB G...	J:\GC38\DATA\030823\ICAL\0308F028.D	ICAL	DB XLB	DB-35MS	03/09/2023	11:46	KC2300215-31	
<input checked="" type="checkbox"/>	CHLOR 5 PPB G...	J:\GC38\DATA\030823\ICAL\0308F029.D	ICAL	DB XLB	DB-35MS	03/09/2023	12:31	KC2300215-32	
<input checked="" type="checkbox"/>	CHLOR 10 PPB G...	J:\GC38\DATA\030823\ICAL\0308F030.D	ICAL	DB XLB	DB-35MS	03/09/2023	13:16	KC2300215-33	
<input checked="" type="checkbox"/>	CHLOR 20 PPB G...	J:\GC38\DATA\030823\ICAL\0308F031.D	ICAL	DB XLB	DB-35MS	03/09/2023	14:01	KC2300215-34	
<input checked="" type="checkbox"/>	CHLOR 50 PPB G...	J:\GC38\DATA\030823\ICAL\0308F032.D	ICAL	DB XLB	DB-35MS	03/09/2023	15:44	KC2300215-35	
<input checked="" type="checkbox"/>	CHLOR 100 PPB...	J:\GC38\DATA\030823\ICAL\0308F033.D	ICAL	DB XLB	DB-35MS	03/09/2023	16:28	KC2300215-36	
<input checked="" type="checkbox"/>	CHLOR 200 PPB...	J:\GC38\DATA\030823\ICAL\0308F034.D	ICAL	DB XLB	DB-35MS	03/09/2023	17:13	KC2300215-37	
<input checked="" type="checkbox"/>	CHLOR ICV 50 P...	J:\GC38\DATA\030823\ICAL\0308F035.D	ICV	DB XLB	DB-35MS	03/09/2023	17:58	KC2300215-38	
<input checked="" type="checkbox"/>	ROB1 3 DBR C/G...	J:\GC38\DATA\032323\0323F006.D	ICAL	DB XLB	DB-35MS	03/27/2023	18:16	KC2300215-01	

Data File : J:\GC38\DATA\030823ICAL\0308F005.D Vial: 9
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Mar 2023 06:45 pm Operator: CORP\ALKLS.NoUser
 Sample : 24 .2 PPB GCPS9-15G @50X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:22:08 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	54424569	36770880	100.000	100.000
System Monitoring Compounds							
Target Compounds							
25)	2,4'-DDE	13.930	12.713	87999	59847	0.202	0.189
26)	2,4'-DDD	14.783	13.617	71687	48771	0.206	0.201m
27)	2,4'-DDT	15.357	14.117	72975	52895	0.194	0.192

SemiQuant Compounds - Not Calibrated on this Instrument

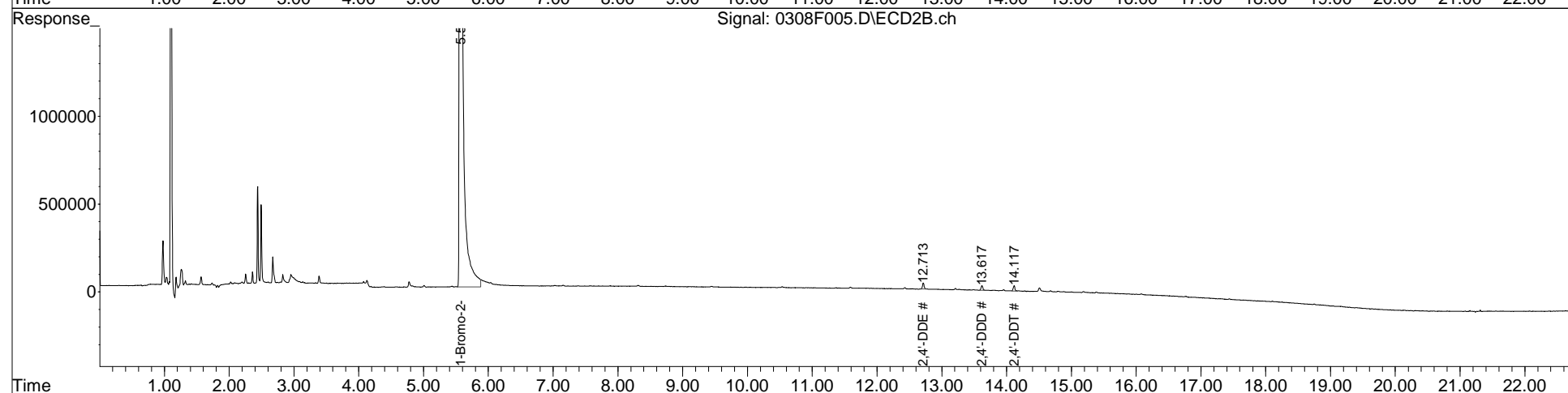
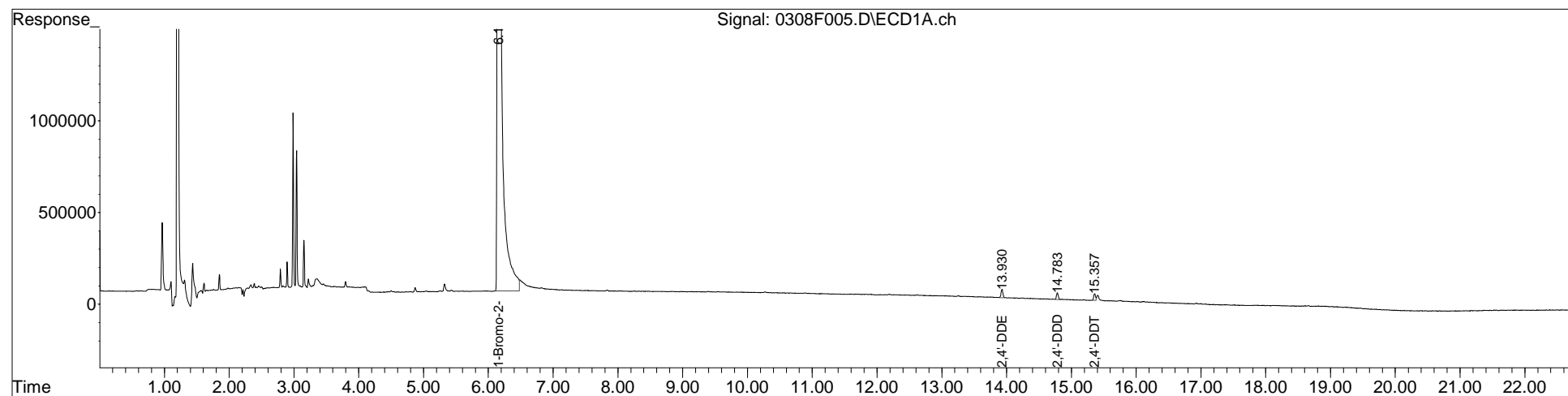
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Mar 2023 06:45 pm
Sample : 24 .2 PPB GCPS9-15G @50X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:22:08 2023
Quant Results File: GC38-030823-8081.RES

Vial: 9
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F005.D

Vial: 9

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 08 Mar 2023 06:45 pm

Operator: CORP\ALKLS.NoUser

Sample : 24 .2 PPB GCPS9-15G @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:07:15 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:06:40 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

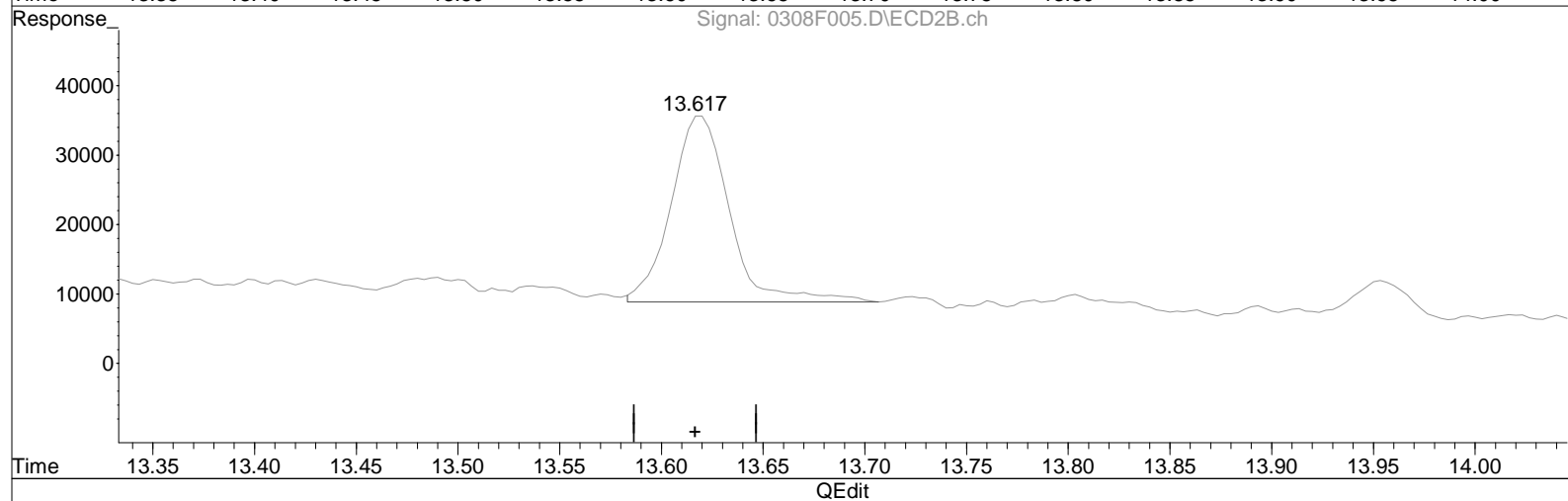
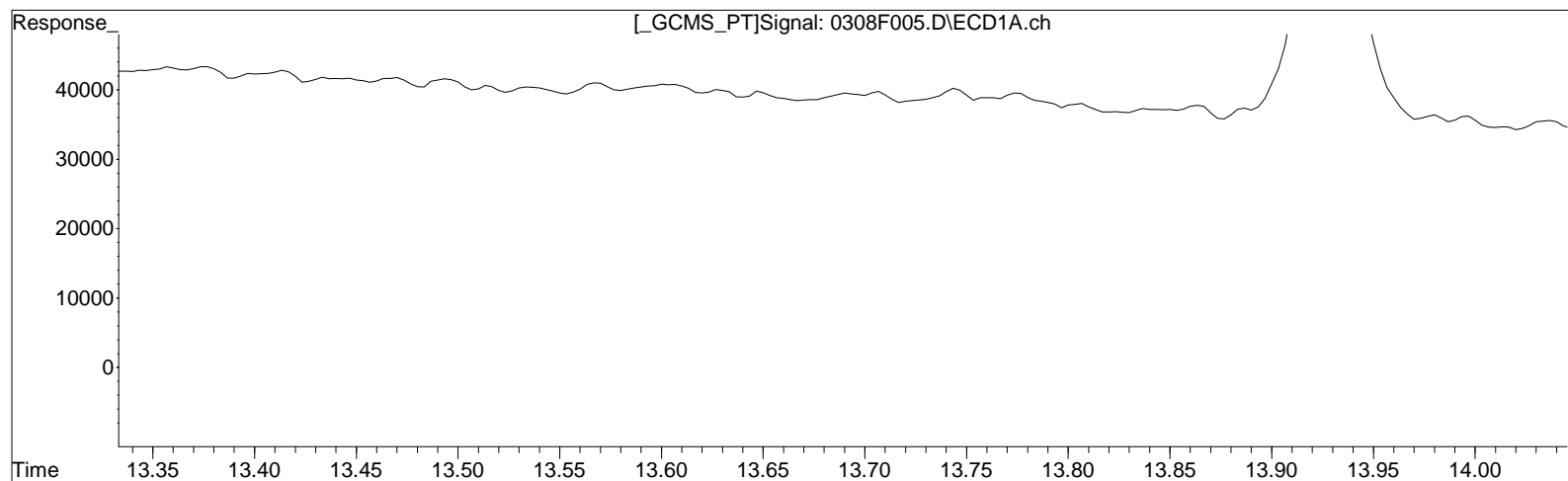
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(26) 2,4'-DDD

14.783min 0.209 ug/L

response 71687

Manual Integration:

Before

03/09/23

(26) 2,4'-DDD #2

13.617min 0.232 ug/L

response 53403

(+) = Expected Retention Time

Data File : J:\GC38\DATA\030823ICAL\0308F005.D

Vial: 9

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 08 Mar 2023 06:45 pm

Operator: CORP\ALKLS.NoUser

Sample : 24 .2 PPB GCPS9-15G @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:07:15 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:06:40 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

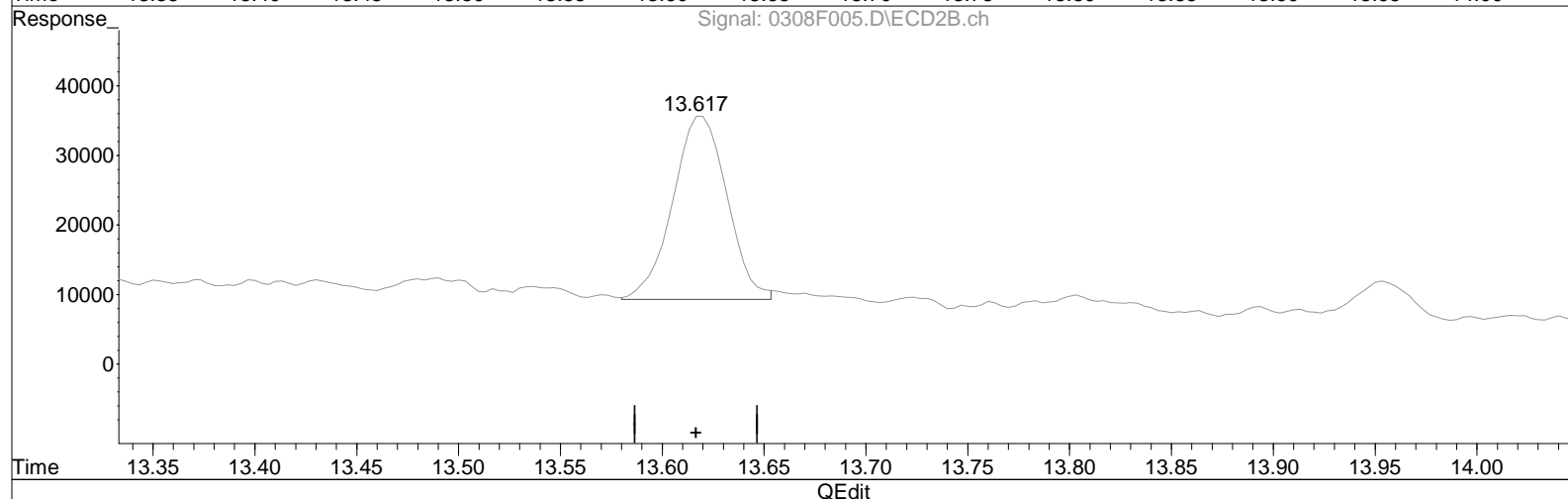
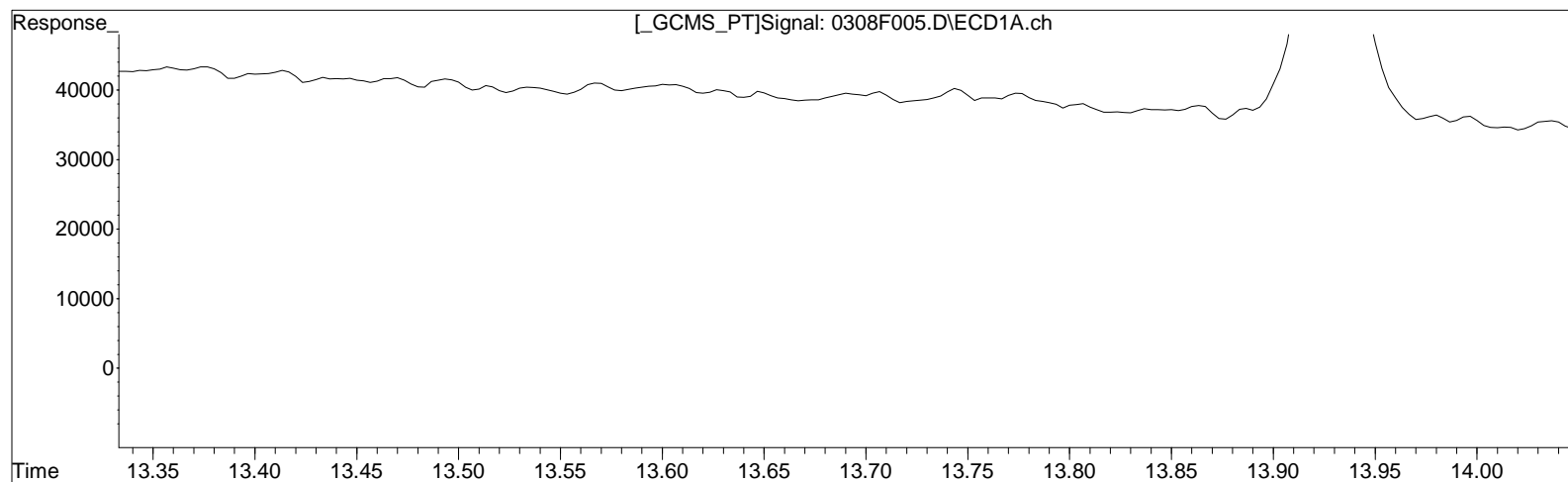
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(26) 2,4'-DDD

14.783min 0.209 ug/L

response 71687

(26) 2,4'-DDD #2

13.617min 0.212 ug/L m

response 48771

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F006.D Vial: 10
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Mar 2023 07:30 pm Operator: CORP\ALKLS.NoUser
 Sample : 24 .5 PPB GCPS9-15G @20X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:22:19 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	53858304	36670087	100.000	100.000

System Monitoring Compounds

	Target Compounds	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
25)	2,4'-DDE	13.927	12.713	227719	156375	0.527	0.496
26)	2,4'-DDD	14.783	13.617	179834	125525	0.522	0.520
27)	2,4'-DDT	15.357	14.113	193519	138520	0.519	0.503

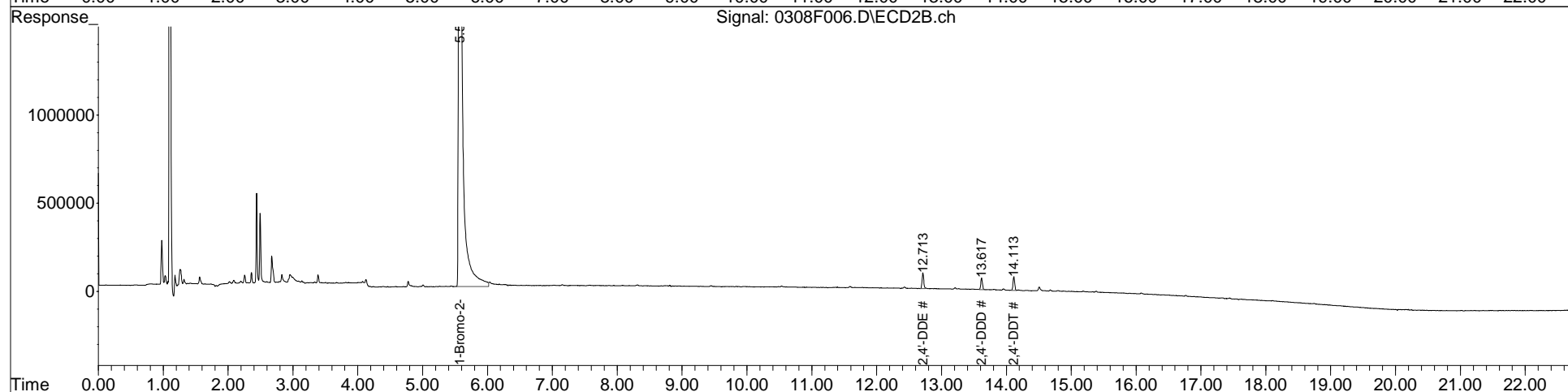
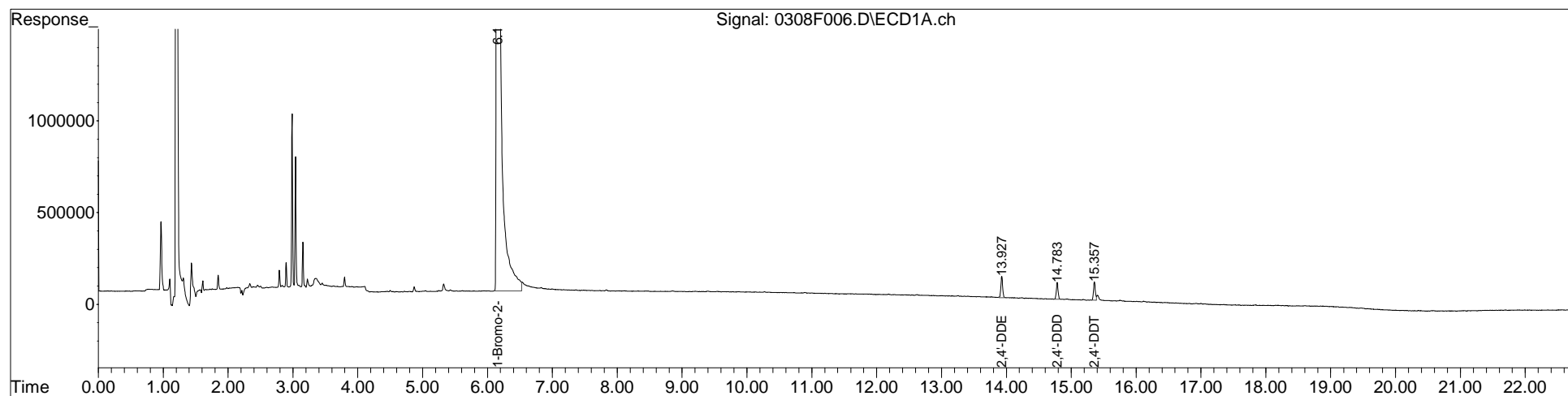
SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F006.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Mar 2023 07:30 pm Operator: CORP\ALKLS.NoUser
Sample : 24 .5 PPB GCPS9-15G @20X Inst : GC38
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:22:19 2023
Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F007.D Vial: 11
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Mar 2023 08:14 pm Operator: CORP\ALKLS.NoUser
 Sample : 24 1 PPB GCPS9-15G @10X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:22:32 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	53795536	36175925	100.000	100.000

System Monitoring Compounds

Target Compounds	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
25) 2,4'-DDE	13.930	12.713	450697	324754	1.045	1.043
26) 2,4'-DDD	14.783	13.617	352028	235901	1.023	0.990
27) 2,4'-DDT	15.357	14.113	399326	277139	1.072	1.020

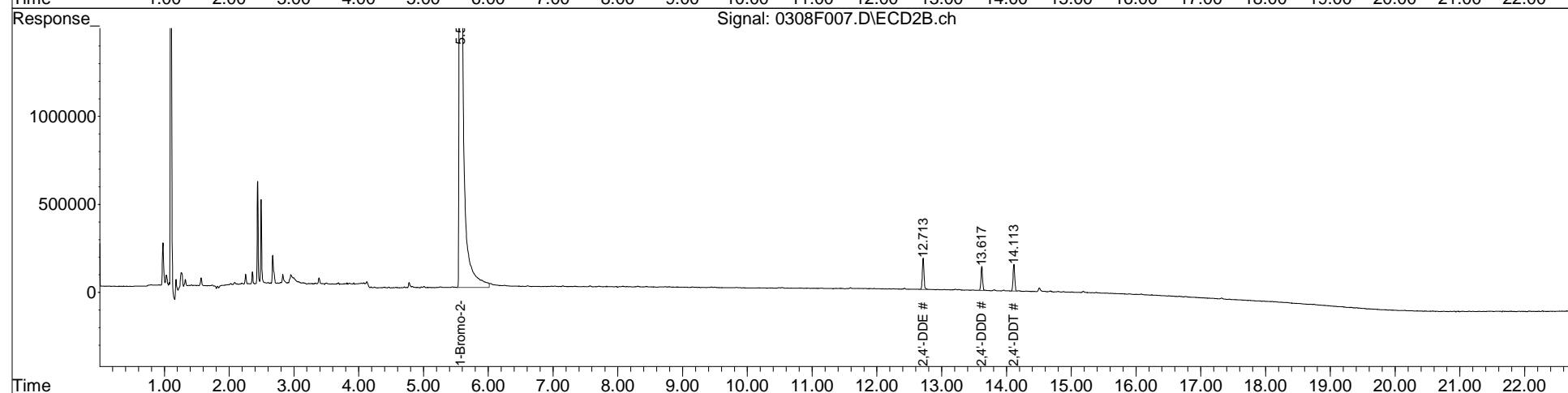
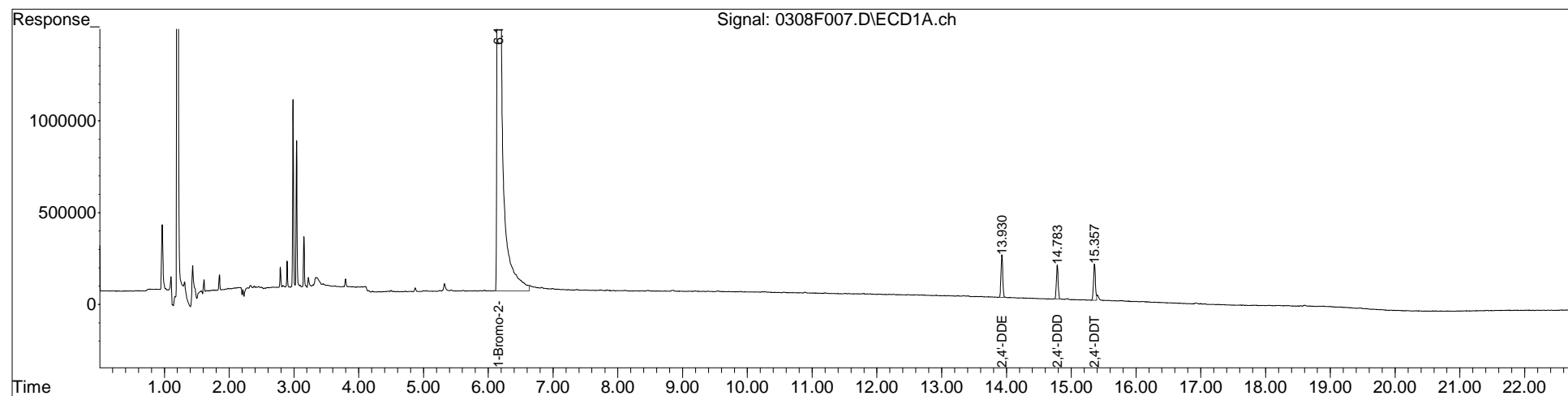
SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F007.D Vial: 11
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Mar 2023 08:14 pm Operator: CORP\ALKLS.NoUser
Sample : 24 1 PPB GCPS9-15G @10X Inst : GC38
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:22:32 2023
Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F008.D Vial: 12
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Mar 2023 08:59 pm Operator: CORP\ALKLS.NoUser
 Sample : 24 2 PPB GCPS9-15G @5X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:22:42 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	54524013	36640960	100.000	100.000

System Monitoring Compounds

	Target Compounds						
25)	2,4'-DDE	13.927	12.713	863011	615346	1.974	1.952
26)	2,4'-DDD	14.783	13.617	686794	458625	1.970	1.900
27)	2,4'-DDT	15.357	14.113	758390	533332	2.009	1.938

SemiQuant Compounds - Not Calibrated on this Instrument

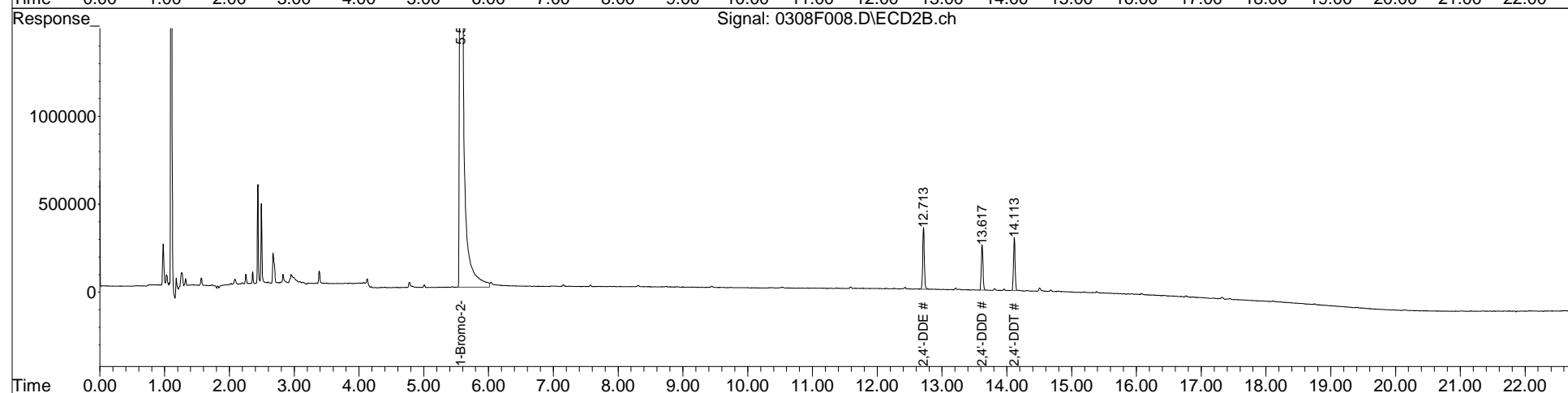
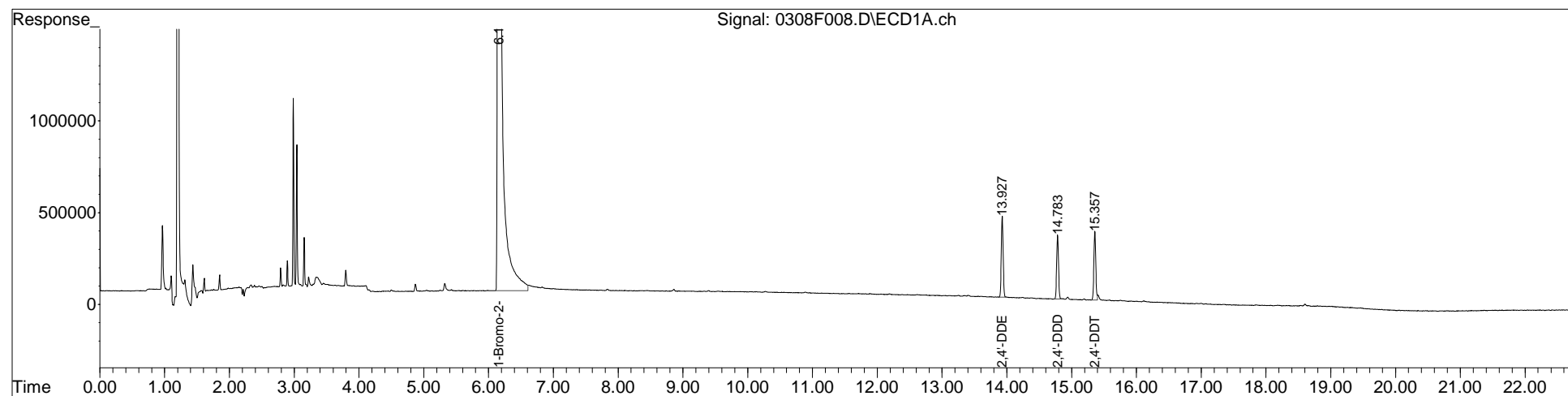
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Mar 2023 08:59 pm
Sample : 24 2 PPB GCPS9-15G @5X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:22:42 2023
Quant Results File: GC38-030823-8081.RES

Vial: 12
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F009.D Vial: 13
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Mar 2023 09:43 pm Operator: CORP\ALKLS.NoUser
 Sample : 24 5 PPB GCPS9-15G @2X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:22:53 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	52250114	34893244	100.000	100.000

System Monitoring Compounds

	Target Compounds	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
25)	2,4'-DDE	13.930	12.713	2047461	1540021	4.888	5.129
26)	2,4'-DDD	14.783	13.620	1645414	1167812	4.924	5.081
27)	2,4'-DDT	15.360	14.117	1782681	1351728	4.928m	5.158

SemiQuant Compounds - Not Calibrated on this Instrument

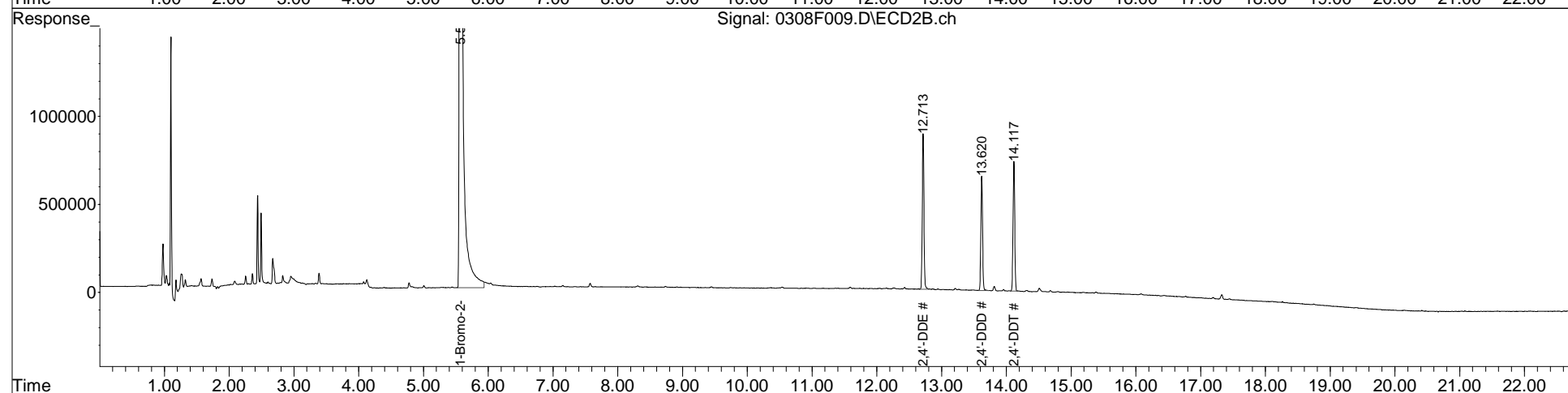
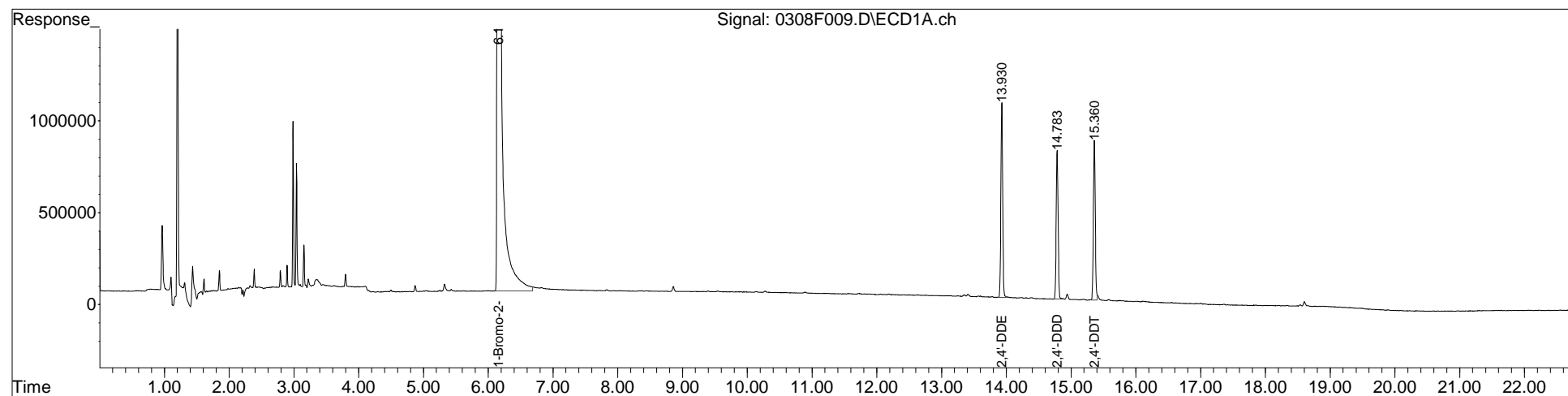
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Mar 2023 09:43 pm
Sample : 24 5 PPB GCPS9-15G @2X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:22:53 2023
Quant Results File: GC38-030823-8081.RES

Vial: 13
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F009.D

Vial: 13

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 08 Mar 2023 09:43 pm

Operator: CORP\ALKLS.NoUser

Sample : 24 5 PPB GCPS9-15G @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:13:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:12:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

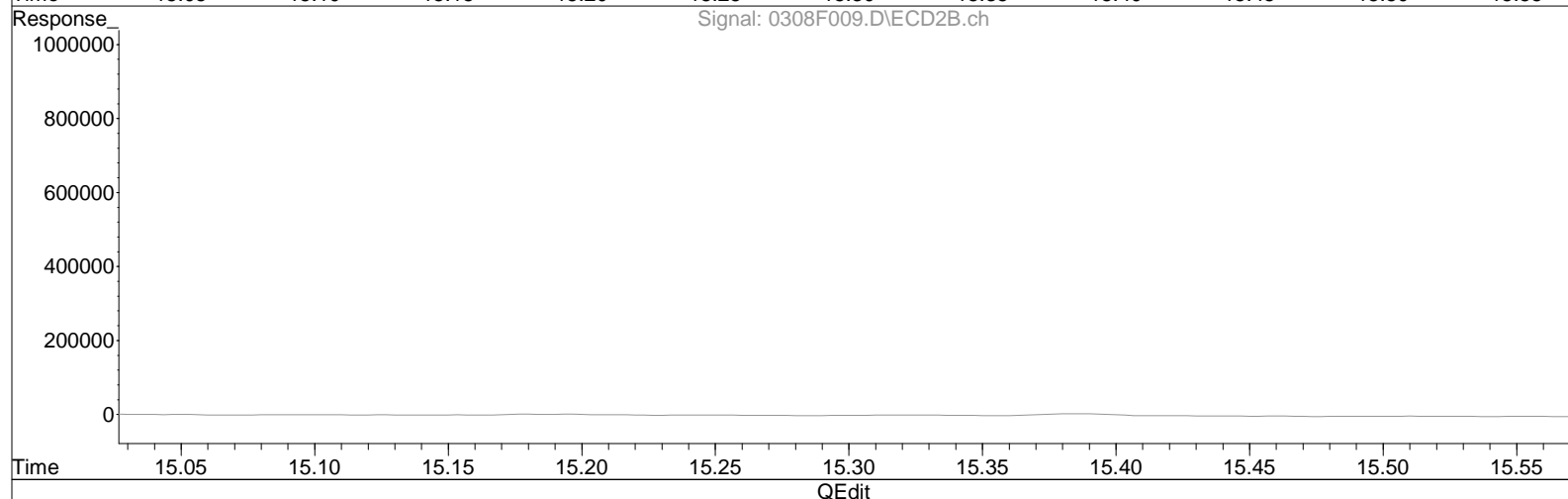
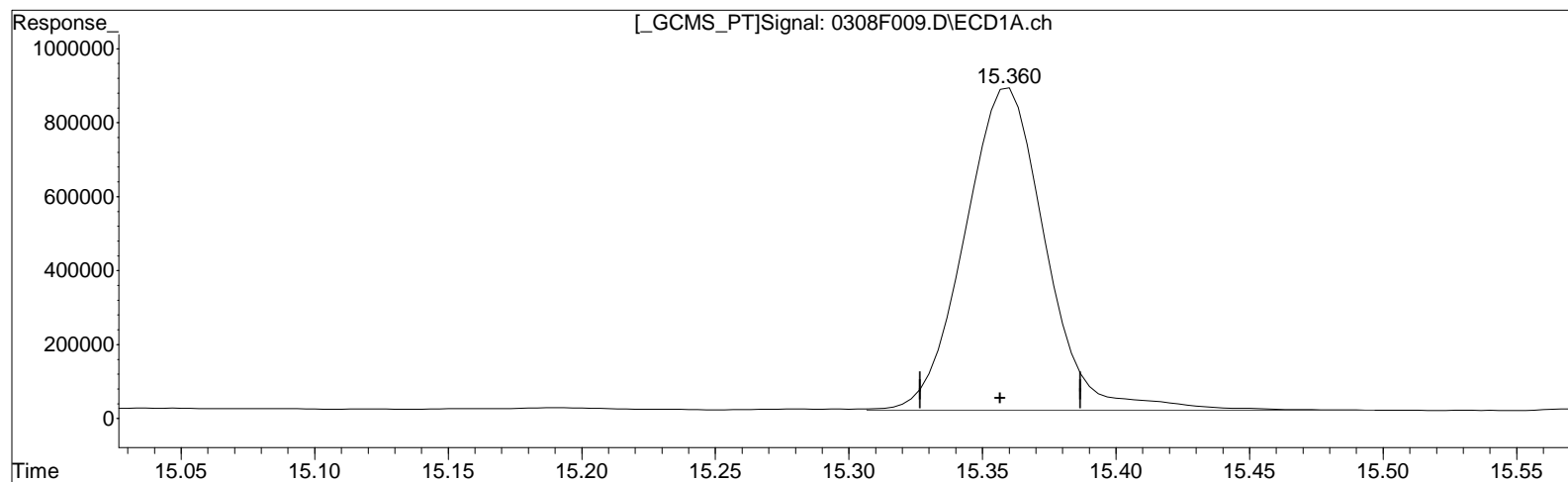
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(27) 2,4'-DDT

15.360min 4.965 ug/L

response 1833526

Manual Integration:

Before

03/09/23

(27) 2,4'-DDT #2

14.117min 5.220 ug/L

response 1351728

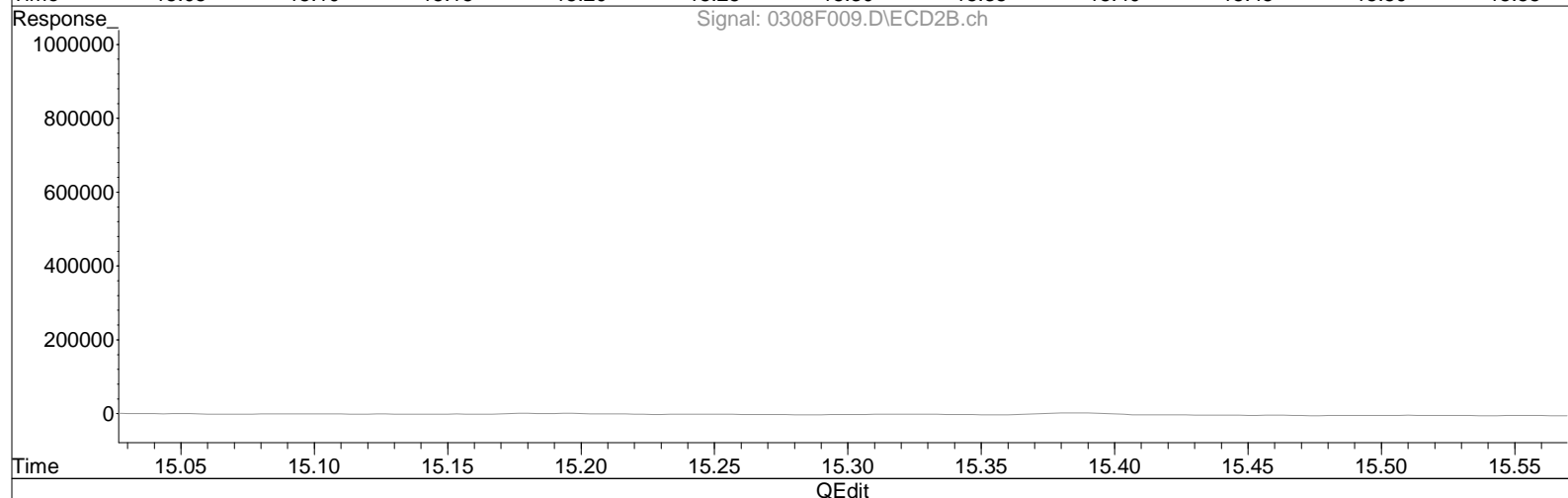
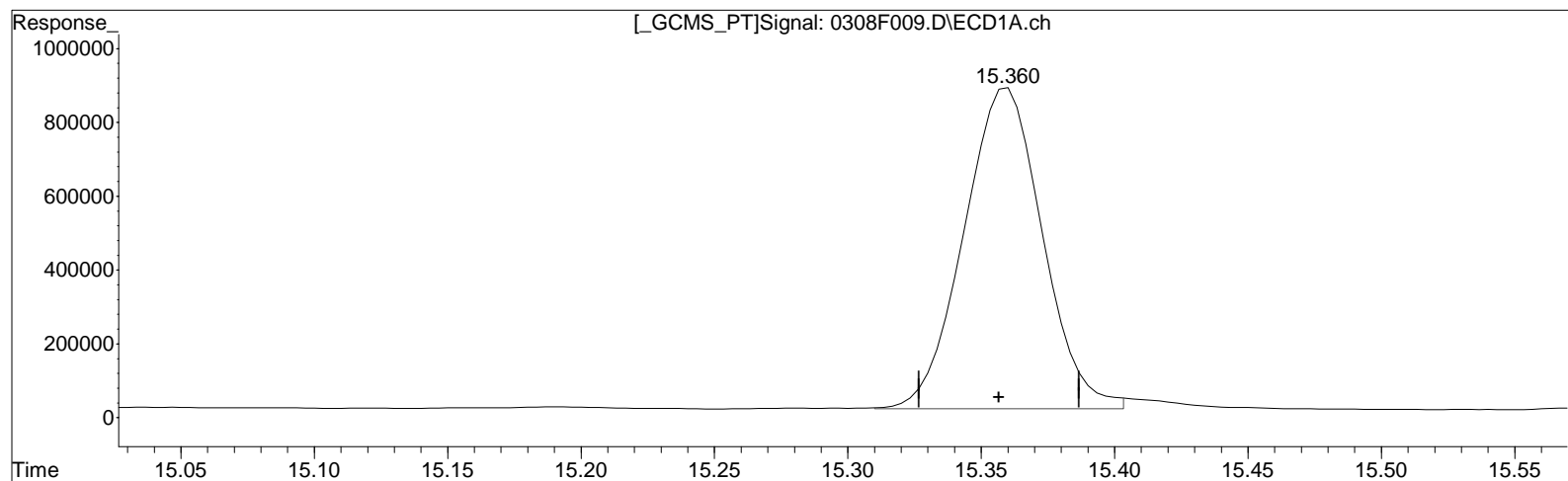
(+) = Expected Retention Time

Data File : J:\GC38\DATA\030823ICAL\0308F009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Mar 2023 09:43 pm
Sample : 24 5 PPB GCPS9-15G @2X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 09 16:13:01 2023
Quant Results File: GC38-030823-8081.RES

Vial: 13
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Thu Mar 09 16:12:49 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



QEdit

(27) 2,4'-DDT
15.360min 4.828 ug/L m
response 1782681

(27) 2,4'-DDT #2
14.117min 5.220 ug/L
response 1351728

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F010.D Vial: 14
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Mar 2023 10:28 pm Operator: CORP\ALKLS.NoUser
 Sample : 24 10 PPB GCPS9-15G Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:23:04 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	50893530	33431132	100.000	100.000

System Monitoring Compounds

Target Compounds	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
25) 2,4'-DDE	13.927	12.713	3780259	2929293	9.266	10.183
26) 2,4'-DDD	14.783	13.617	3036134	2197695	9.329	9.979
27) 2,4'-DDT	15.357	14.113	3280516	2550467	9.311m	10.158

SemiQuant Compounds - Not Calibrated on this Instrument

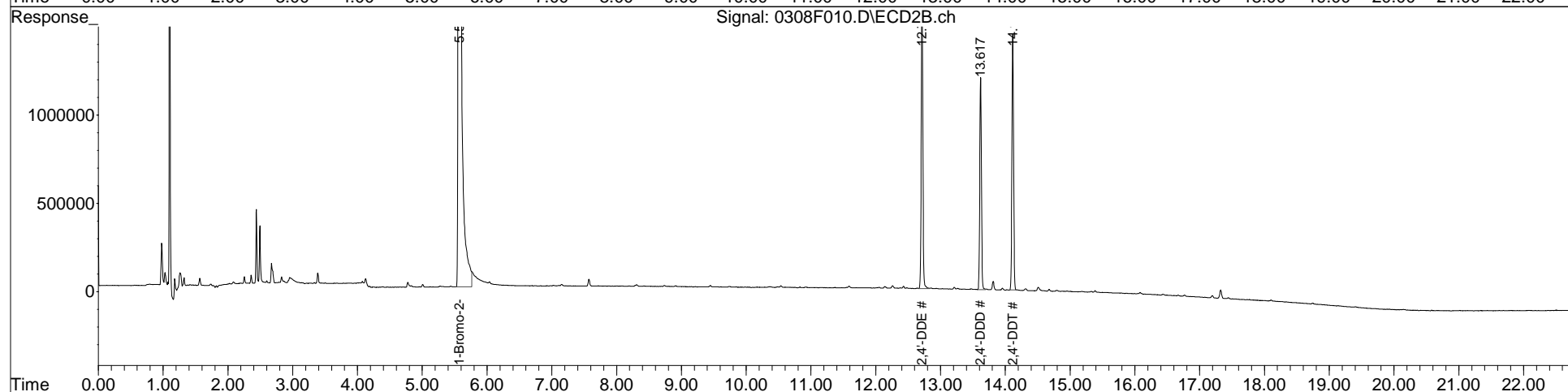
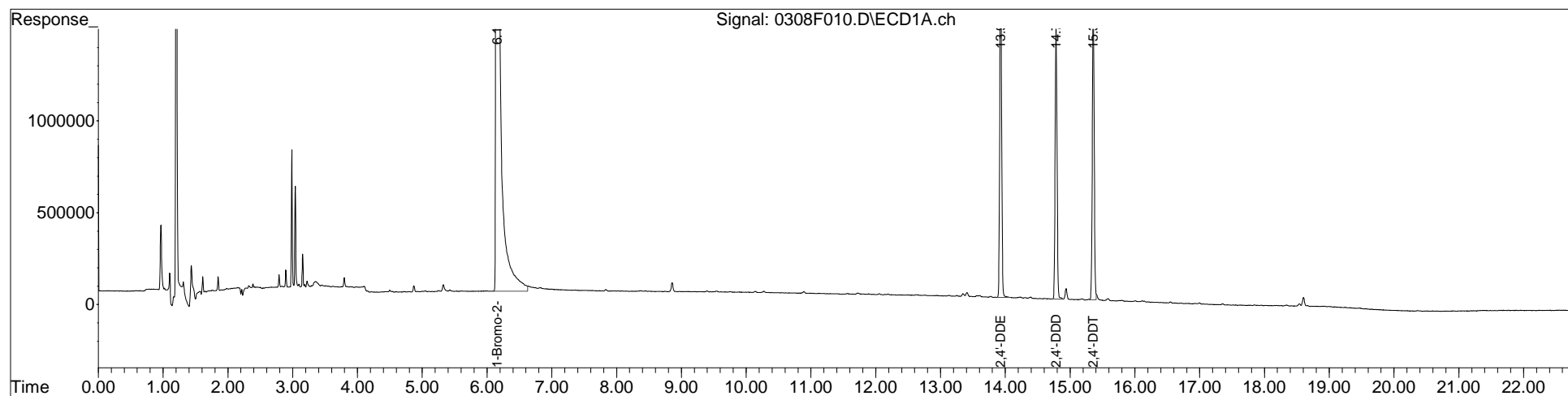
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Mar 2023 10:28 pm
Sample : 24 10 PPB GCPS9-15G
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:23:04 2023
Quant Results File: GC38-030823-8081.RES

Vial: 14
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F010.D

Vial: 14

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 08 Mar 2023 10:28 pm

Operator: CORP\ALKLS.NoUser

Sample : 24 10 PPB GCPS9-15G

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:14:05 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:13:57 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

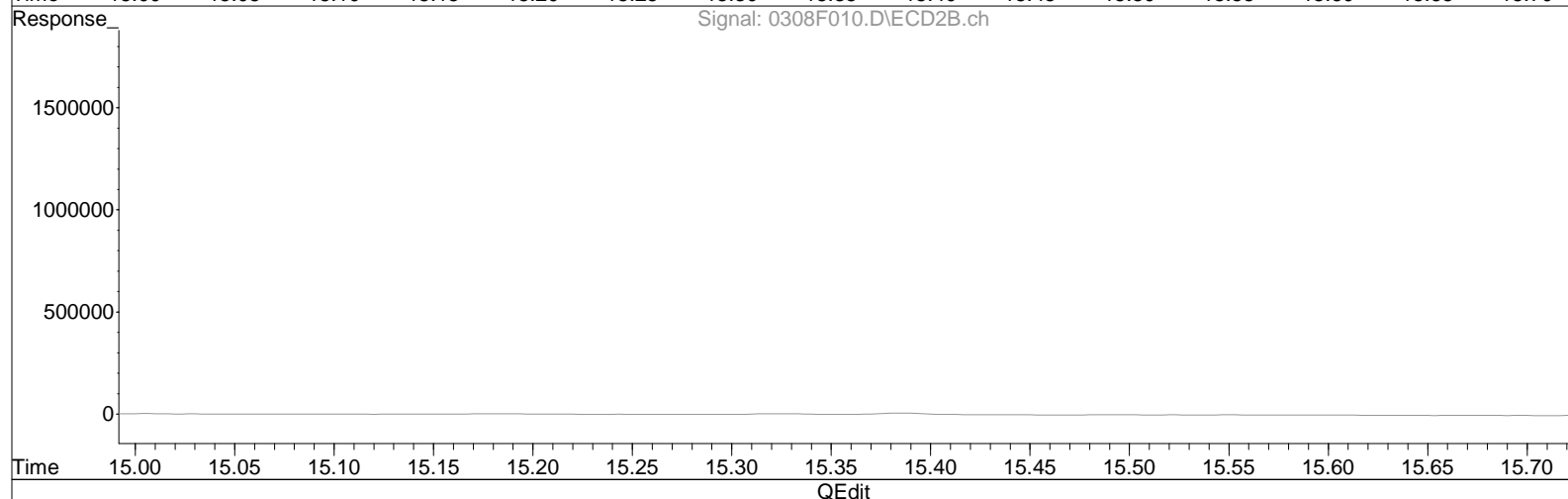
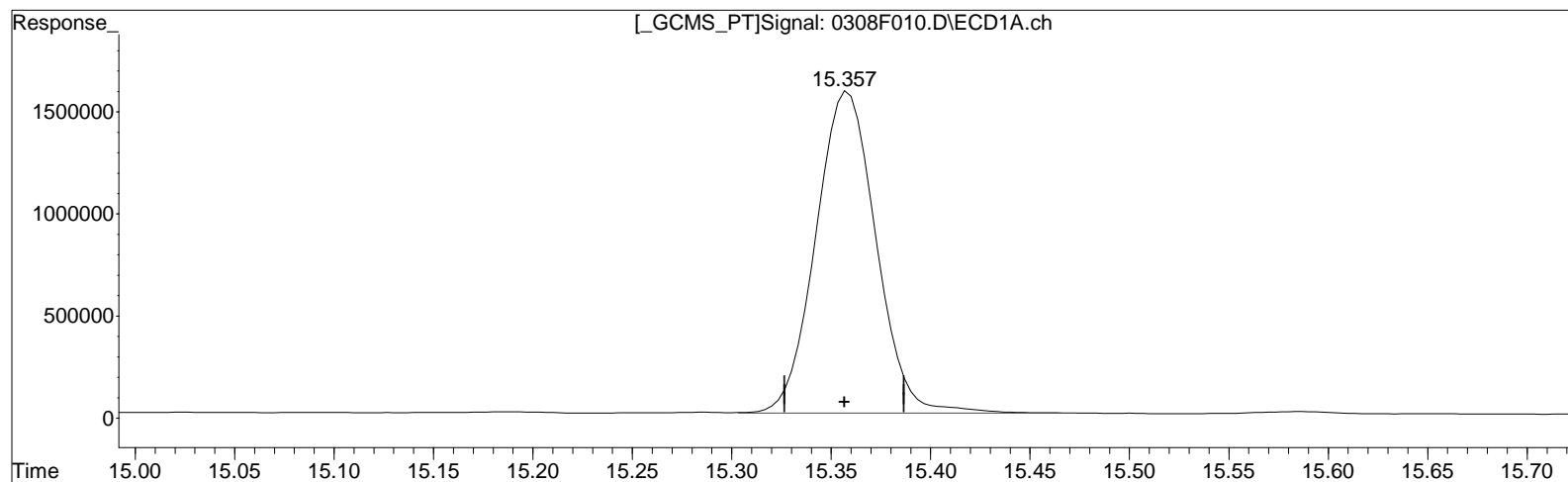
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(27) 2,4'-DDT

15.357min 9.323 ug/L

response 3330229

Manual Integration:

Before

03/09/23

(27) 2,4'-DDT #2

14.113min 10.190 ug/L

response 2550467

(+) = Expected Retention Time

Data File : J:\GC38\DATA\030823ICAL\0308F010.D

Vial: 14

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 08 Mar 2023 10:28 pm

Operator: CORP\ALKLS.NoUser

Sample : 24 10 PPB GCPS9-15G

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:14:05 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:13:57 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

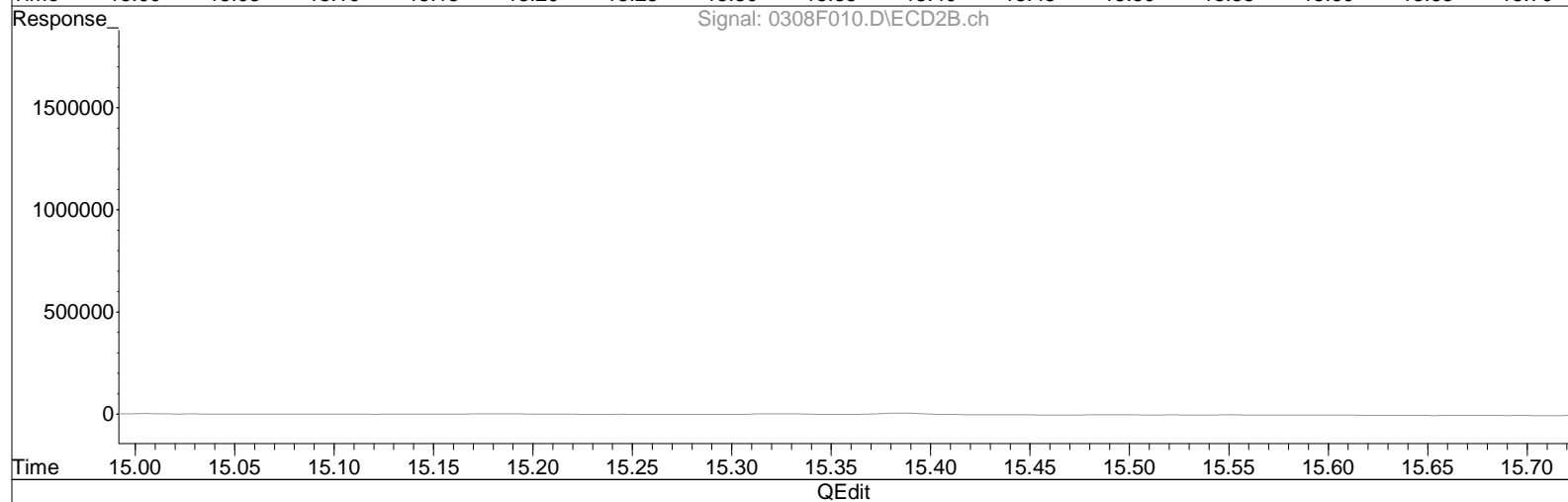
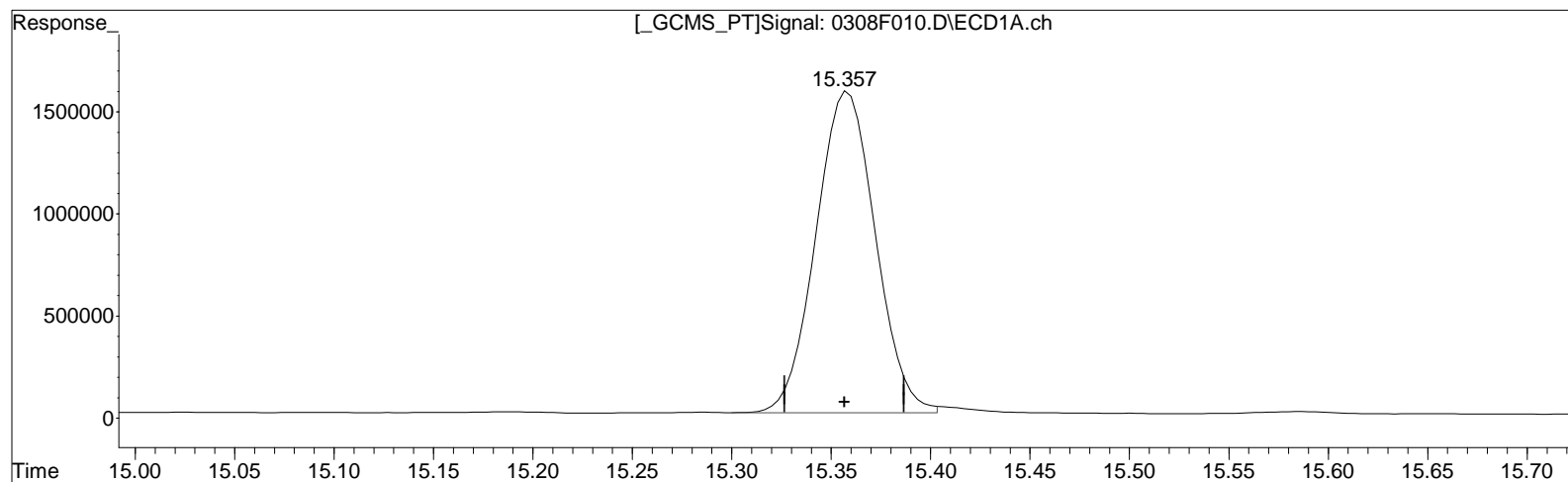
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(27) 2,4'-DDT

15.357min 9.184 ug/L m

response 3280516

(27) 2,4'-DDT #2

14.113min 10.190 ug/L

response 2550467

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F012.D Vial: 16
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Mar 2023 11:56 pm Operator: CORP\ALKLS.NoUser
 Sample : M/P .2/1 PPB GCPS9-24D @50X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:23:20 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	51856776	34239336	100.000	100.000

System Monitoring Compounds

Target Compounds

44) Chlorpyrifos	12.650	11.553	67552	46015	0.214	0.212
45) Oxychlorthane	13.563	12.050	132638	89025	0.216	0.216
46) cis-Nonac...	15.593	14.137	157096	100463	0.230	0.206
47) trans-Non...	14.390	12.733	149119	108094	0.230	0.228
48) Mirex	18.340	16.667	114727	106287	0.224	0.240
49) HCE	3.920	3.270	283402	167815	0.214	0.196
50) HCB	4.780	3.917	233351	136501	0.215	0.201
52) Perthane	14.930	13.710	18636	16068	1.044	1.294

SemiQuant Compounds - Not Calibrated on this Instrument

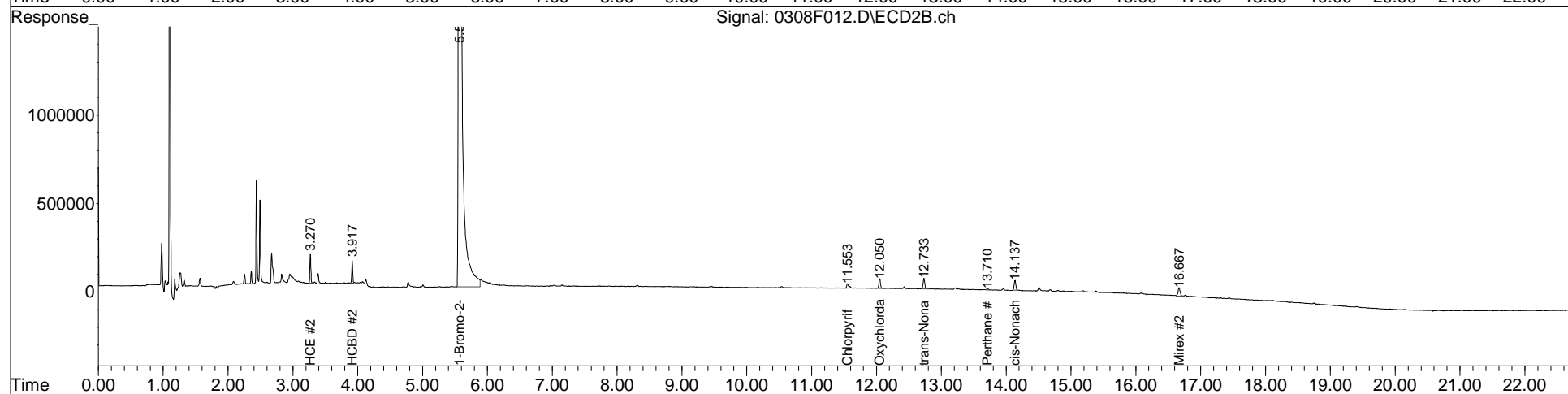
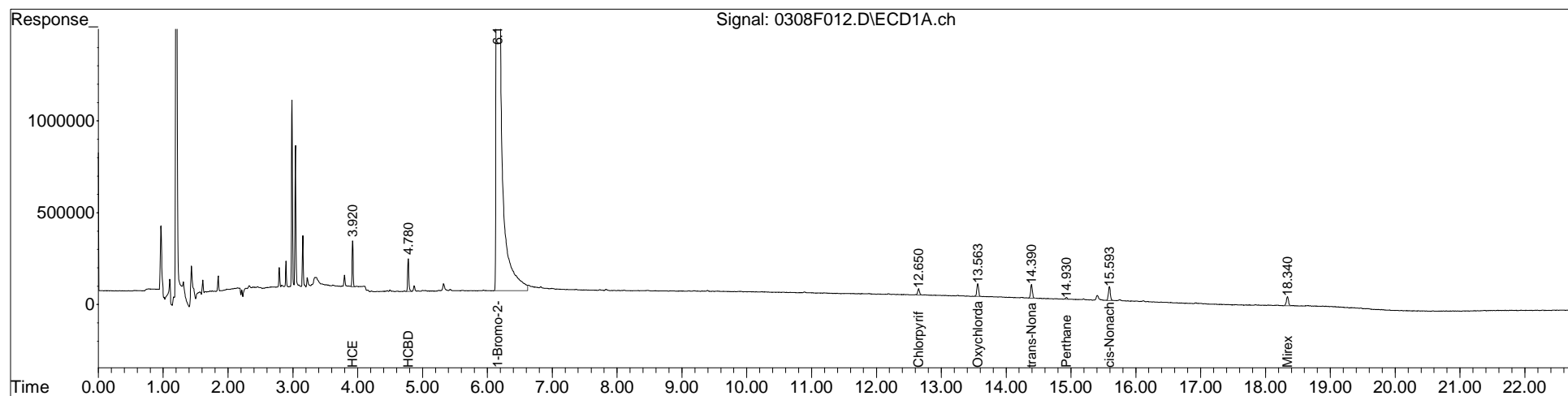
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Mar 2023 11:56 pm
Sample : M/P .2/1 PPB GCPS9-24D @50X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:23:20 2023
Quant Results File: GC38-030823-8081.RES

Vial: 16
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F013.D Vial: 17
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 12:41 am Operator: CORP\ALKLS.NoUser
 Sample : M/P .5/2.5 PPB GCPS9-24D @20X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:23:32 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	52522455	34618064	100.000	100.000

System Monitoring Compounds

Target Compounds	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
44) Chlorpyrifos	12.650	11.553	167619	115761	0.525	0.528m
45) Oxychlorthane	13.560	12.050	340231	216259	0.548	0.520
46) cis-Nonac...	15.593	14.137	374292	249525	0.541	0.507
47) trans-Non...	14.390	12.730	352452	249891	0.536	0.522
48) Mirex	18.340	16.667	288178	235507	0.555	0.525
49) HCE	3.920	3.270	672633	424265	0.502	0.491
50) HCB	4.780	3.917	572214	342903	0.520	0.500m
52) Perthane	14.930	13.713	51222	32901	2.834	2.622

SemiQuant Compounds - Not Calibrated on this Instrument

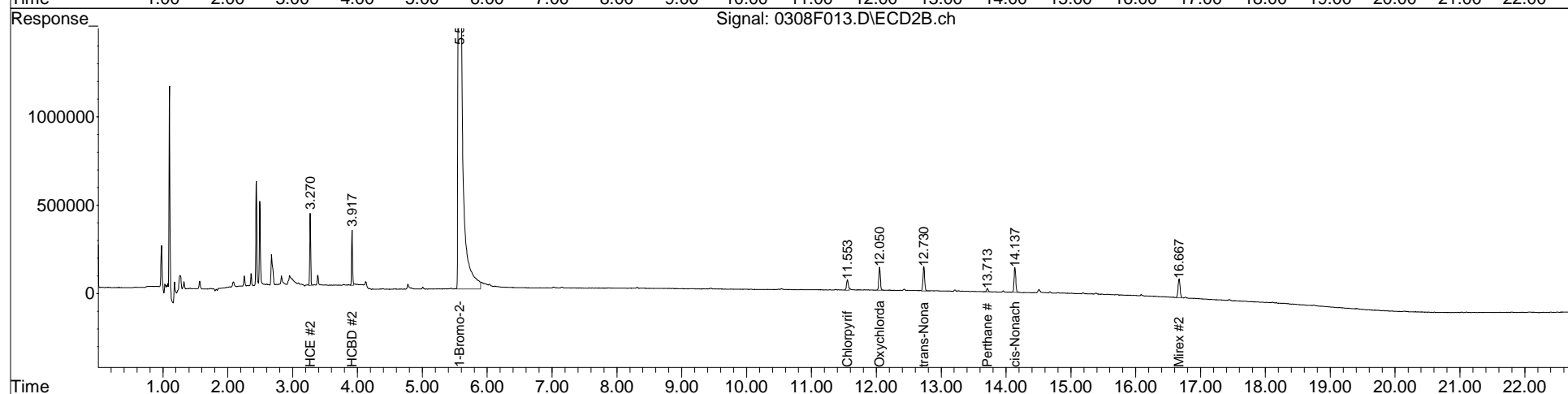
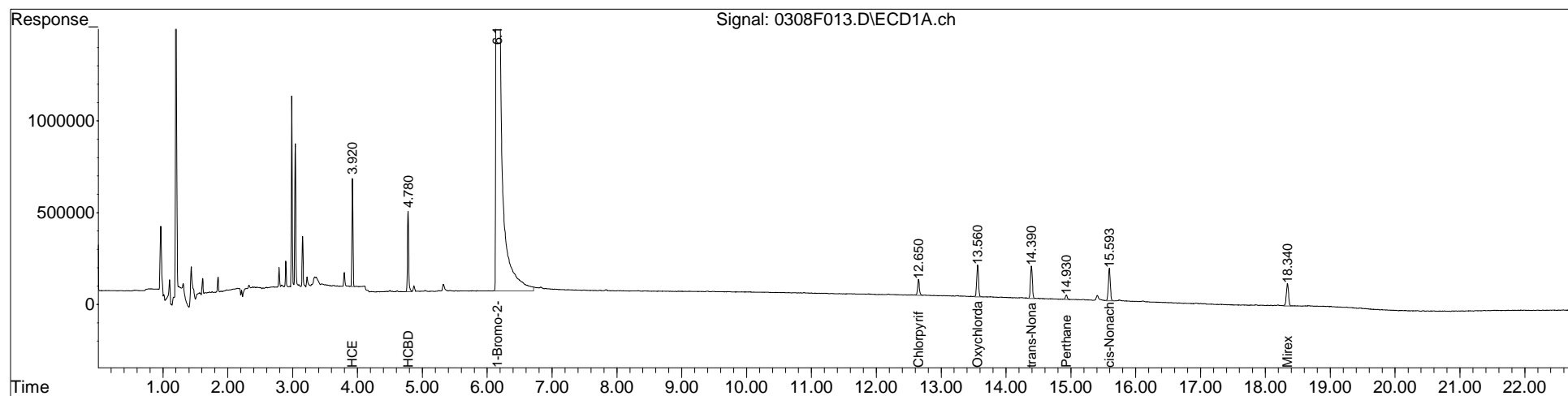
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 12:41 am
Sample : M/P .5/2.5 PPB GCPS9-24D @20X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:23:32 2023
Quant Results File: GC38-030823-8081.RES

Vial: 17
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F013.D

Vial: 17

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 12:41 am

Operator: CORP\ALKLS.NoUser

Sample : M/P .5/2.5 PPB GCPS9-24D @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:25:15 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:24:58 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

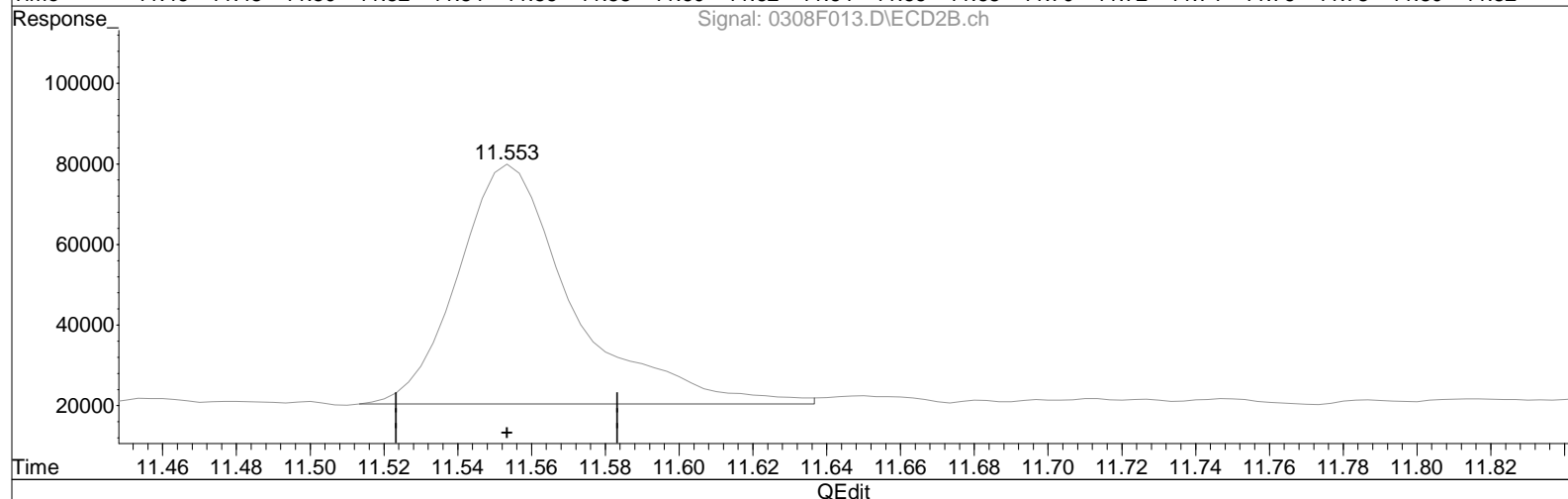
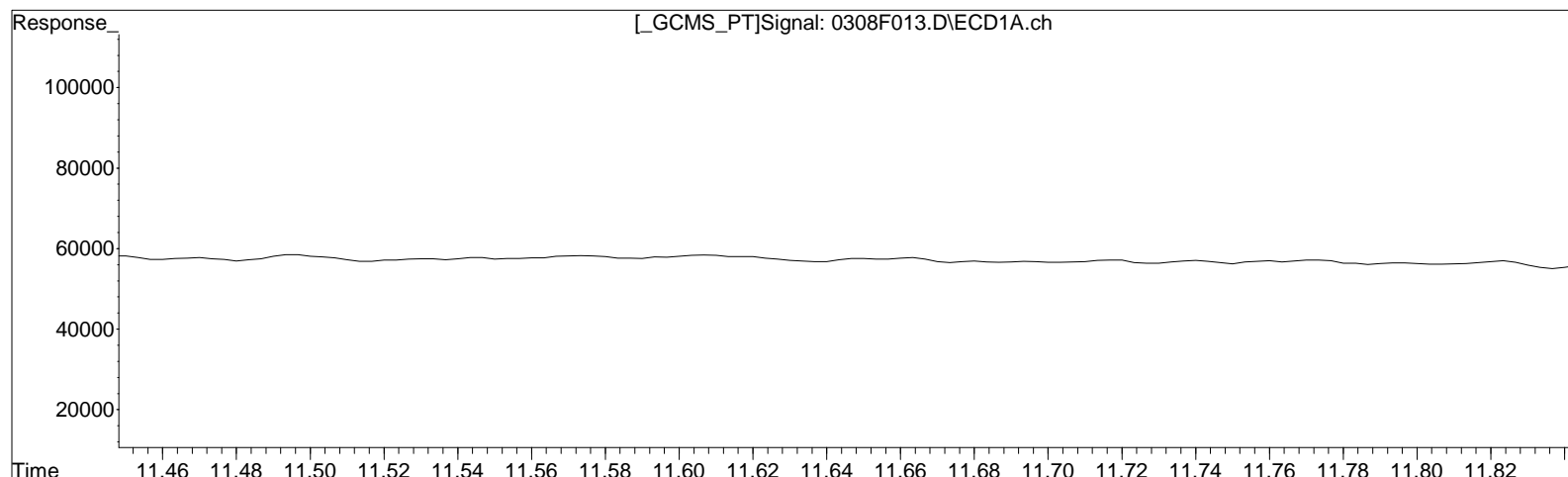
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(44) Chlorpyrifos

12.650min 0.502 ug/L

response 167619

Manual Integration:

Before

03/09/23

(44) Chlorpyrifos #2

11.553min 0.563 ug/L

response 128776

(+) = Expected Retention Time

Data File : J:\GC38\DATA\030823ICAL\0308F013.D

Vial: 17

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 12:41 am

Operator: CORP\ALKLS.NoUser

Sample : M/P .5/2.5 PPB GCPS9-24D @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:25:15 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:24:58 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

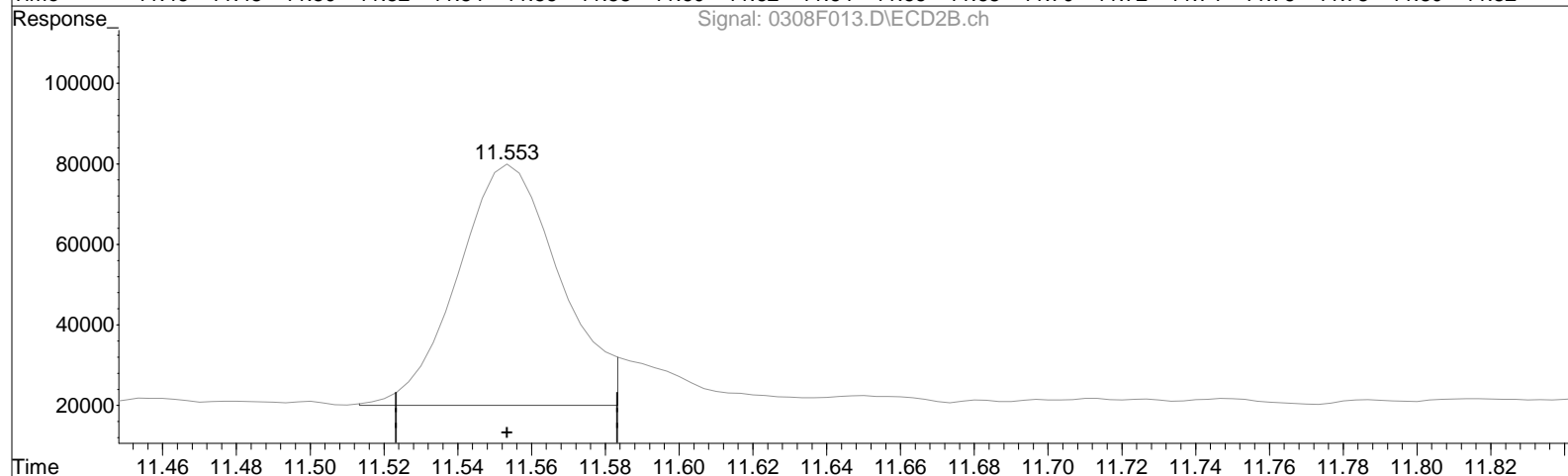
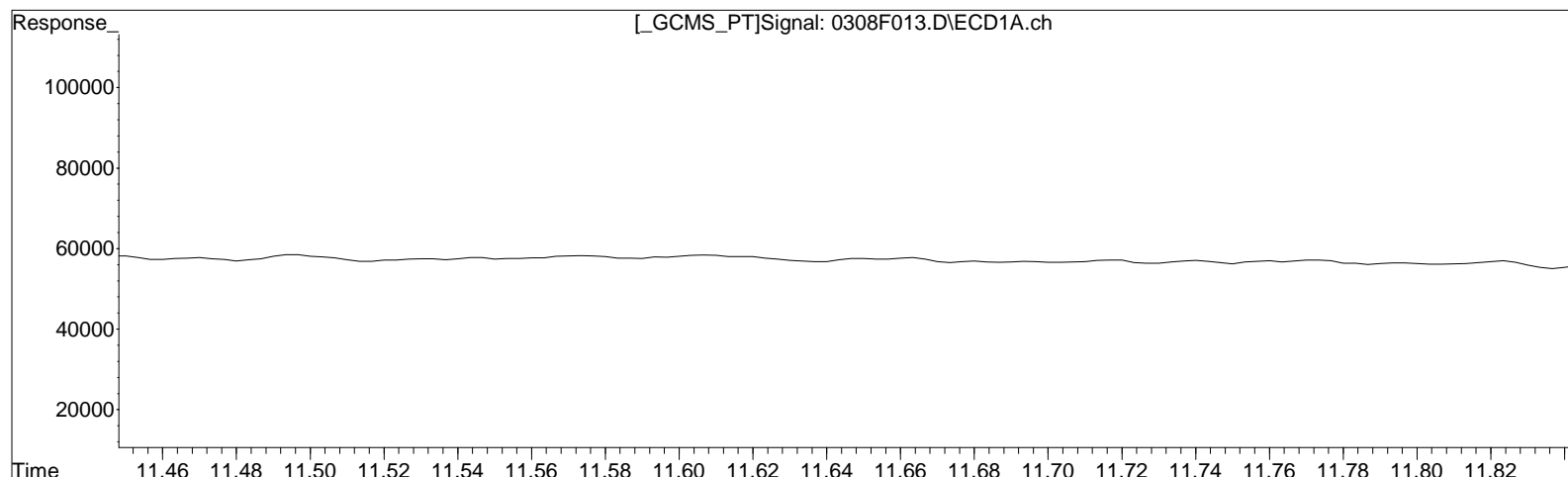
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(44) Chlorpyrifos

12.650min 0.502 ug/L

response 167619

Manual Integration:

After

Baseline Correction

03/09/23

(44) Chlorpyrifos #2

11.553min 0.506 ug/L m

response 115761

Data File : J:\GC38\DATA\030823ICAL\0308F013.D

Vial: 17

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 12:41 am

Operator: CORP\ALKLS.NoUser

Sample : M/P .5/2.5 PPB GCPS9-24D @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:25:15 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:24:58 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

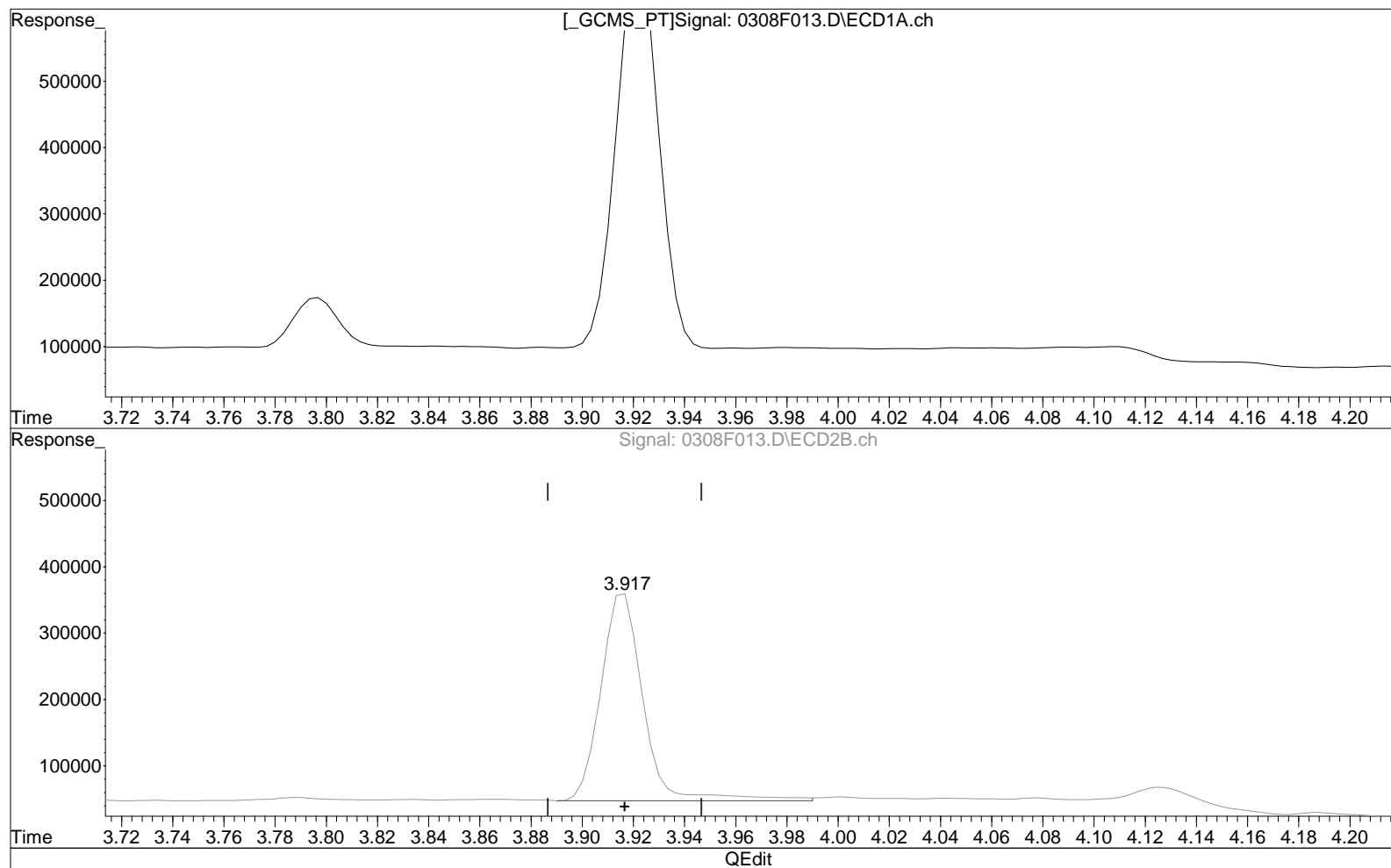
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(50) HCBd

4.780min 0.505 ug/L

response 572214

Manual Integration:

Before

03/09/23

(50) HCBd #2

3.917min 0.524 ug/L

response 360158

Data File : J:\GC38\DATA\030823ICAL\0308F013.D

Vial: 17

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 12:41 am

Operator: CORP\ALKLS.NoUser

Sample : M/P .5/2.5 PPB GCPS9-24D @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:25:15 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:24:58 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

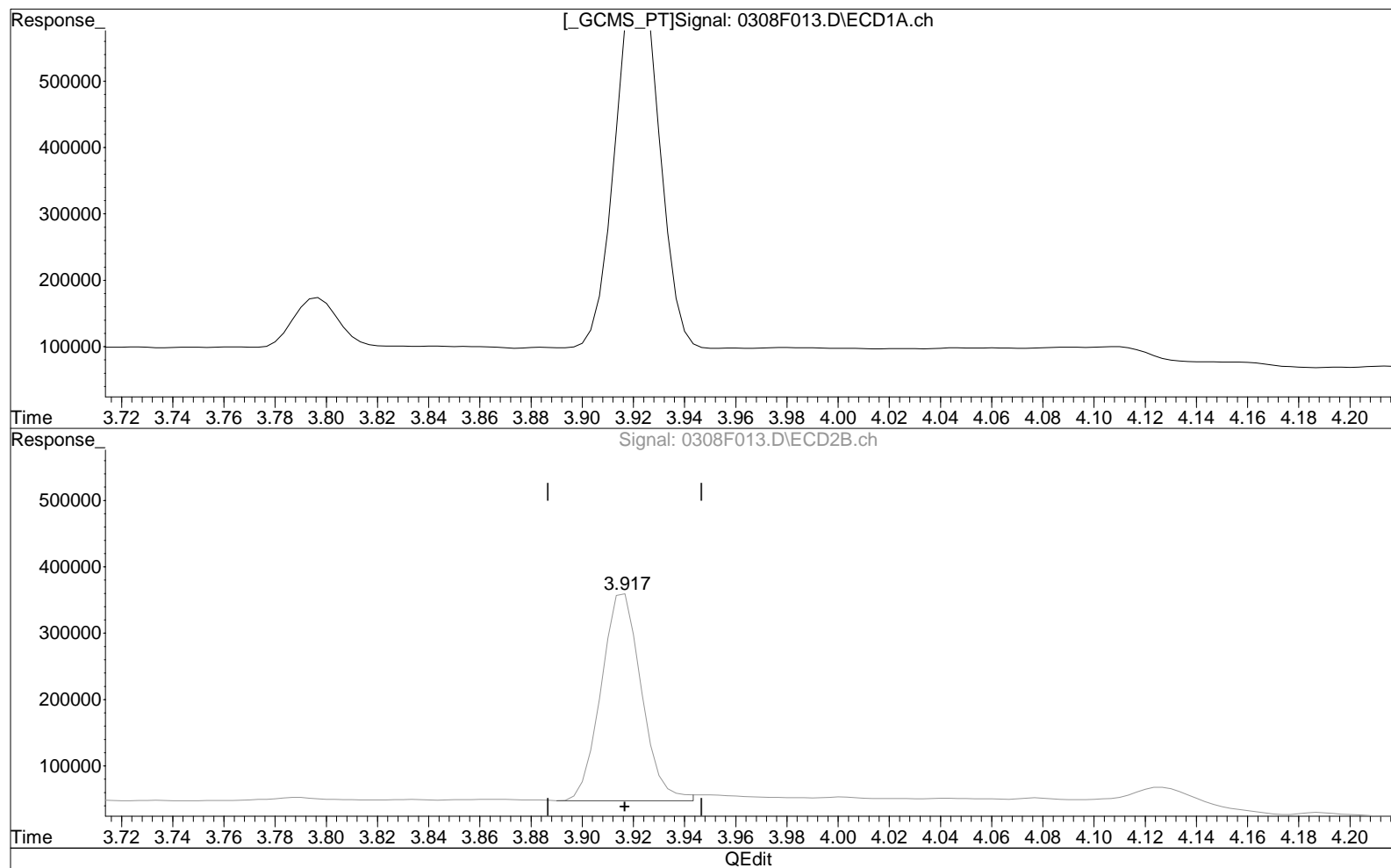
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(50) HCBd

4.780min 0.505 ug/L

response 572214

(50) HCBd #2

3.917min 0.499 ug/L m

response 342903

Manual Integration:

After

Missed Peak

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F014.D Vial: 18
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 01:25 am Operator: CORP\ALKLS.NoUser
 Sample : M/P 1/5 PPB GCPS9-24D @10X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:23:45 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	51269652	33912192	100.000	100.000

System Monitoring Compounds

Target Compounds	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
44) Chlorpyrifos	12.650	11.553	316270	214242	1.015	0.998m
45) Oxychlorthane	13.560	12.050	629361	408076	1.038	1.001
46) cis-Nonac...	15.593	14.137	699434	487664	1.035	1.011
47) trans-Non...	14.390	12.733	657856	462619	1.025	0.986
48) Mirex	18.340	16.667	524985	436158	1.036	0.993
49) HCE	3.920	3.270	1277306	829345	0.976	0.979
50) HCB	4.780	3.913	1087686	672448	1.014	1.001m
52) Perthane	14.930	13.710	89947	64414	5.098	5.239

SemiQuant Compounds - Not Calibrated on this Instrument

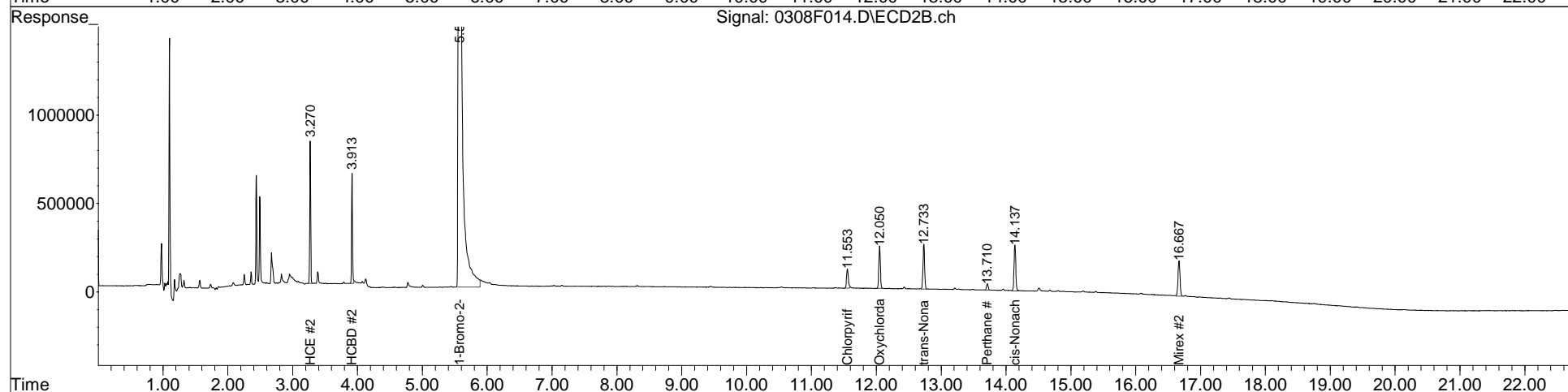
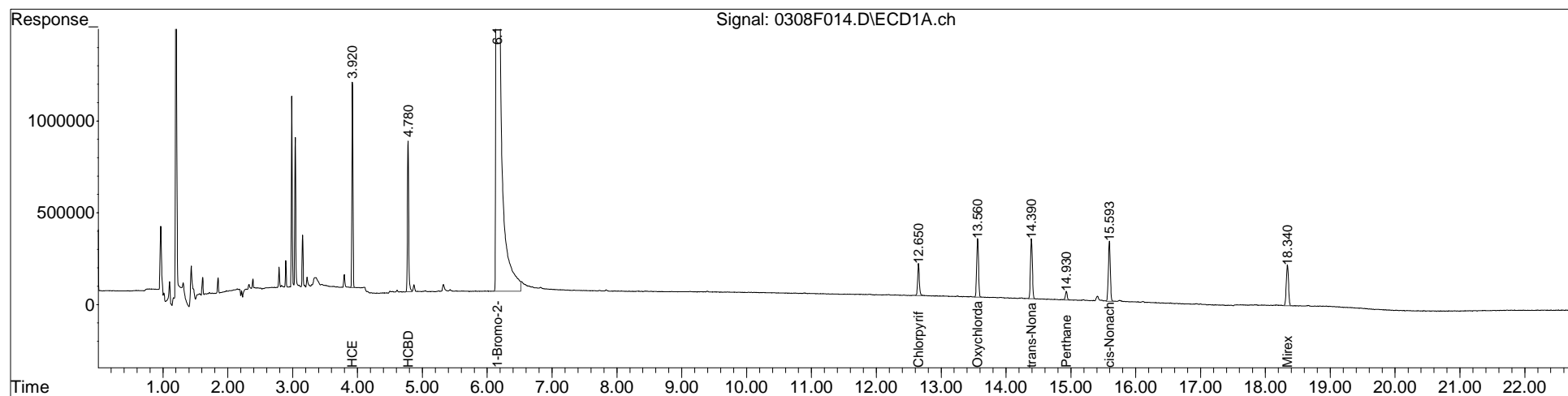
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 01:25 am
Sample : M/P 1/5 PPB GCPS9-24D @10X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:23:45 2023
Quant Results File: GC38-030823-8081.RES

Vial: 18
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F014.D

Vial: 18

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 01:25 am

Operator: CORP\ALKLS.NoUser

Sample : M/P 1/5 PPB GCPS9-24D @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:29:15 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:28:36 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

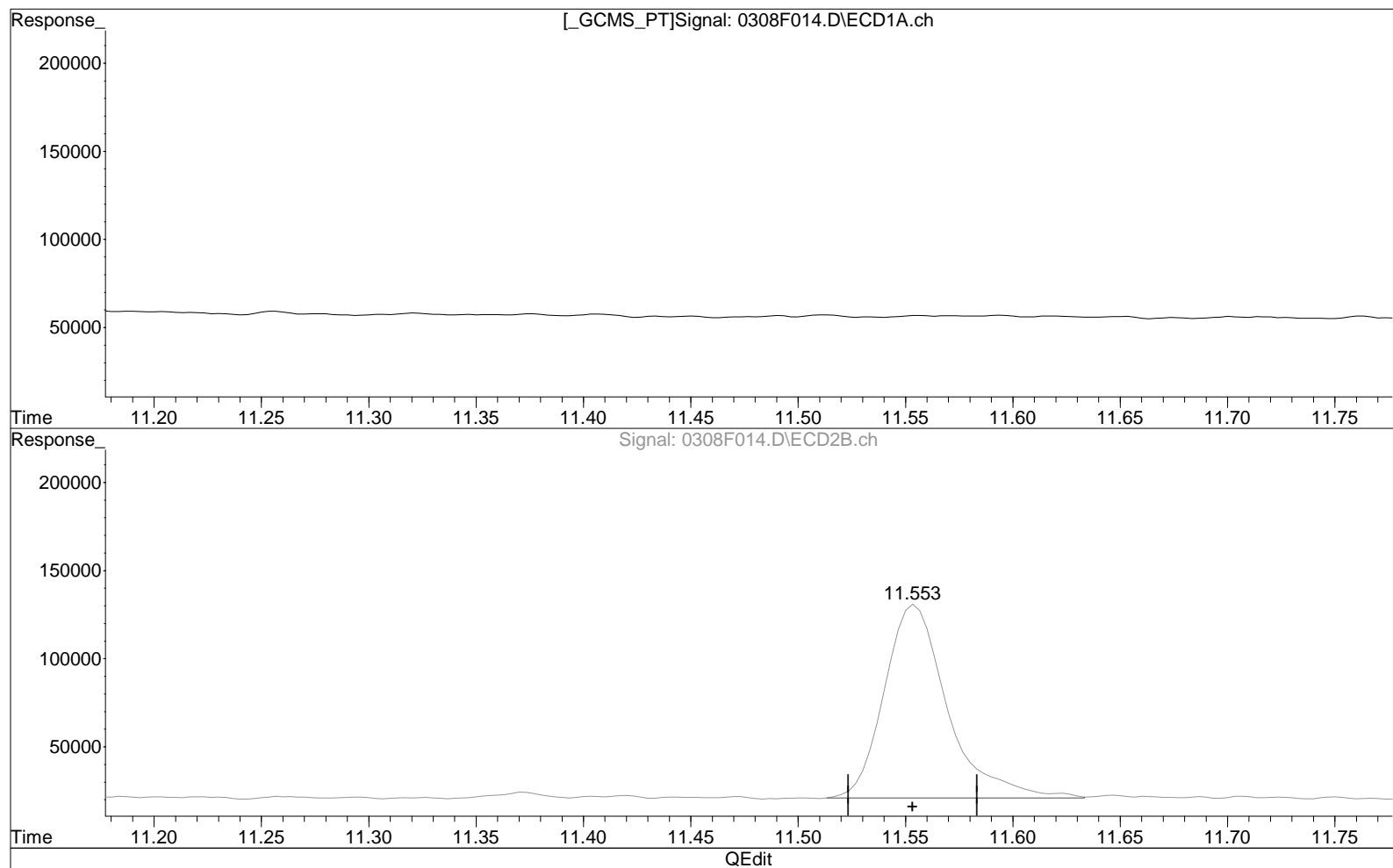
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(44) Chlorpyrifos

12.650min 0.970 ug/L

response 316270

Manual Integration:

Before

03/09/23

(44) Chlorpyrifos #2

11.553min 1.003 ug/L

response 225638

Data File : J:\GC38\DATA\030823ICAL\0308F014.D

Vial: 18

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 01:25 am

Operator: CORP\ALKLS.NoUser

Sample : M/P 1/5 PPB GCPS9-24D @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:29:15 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:28:36 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

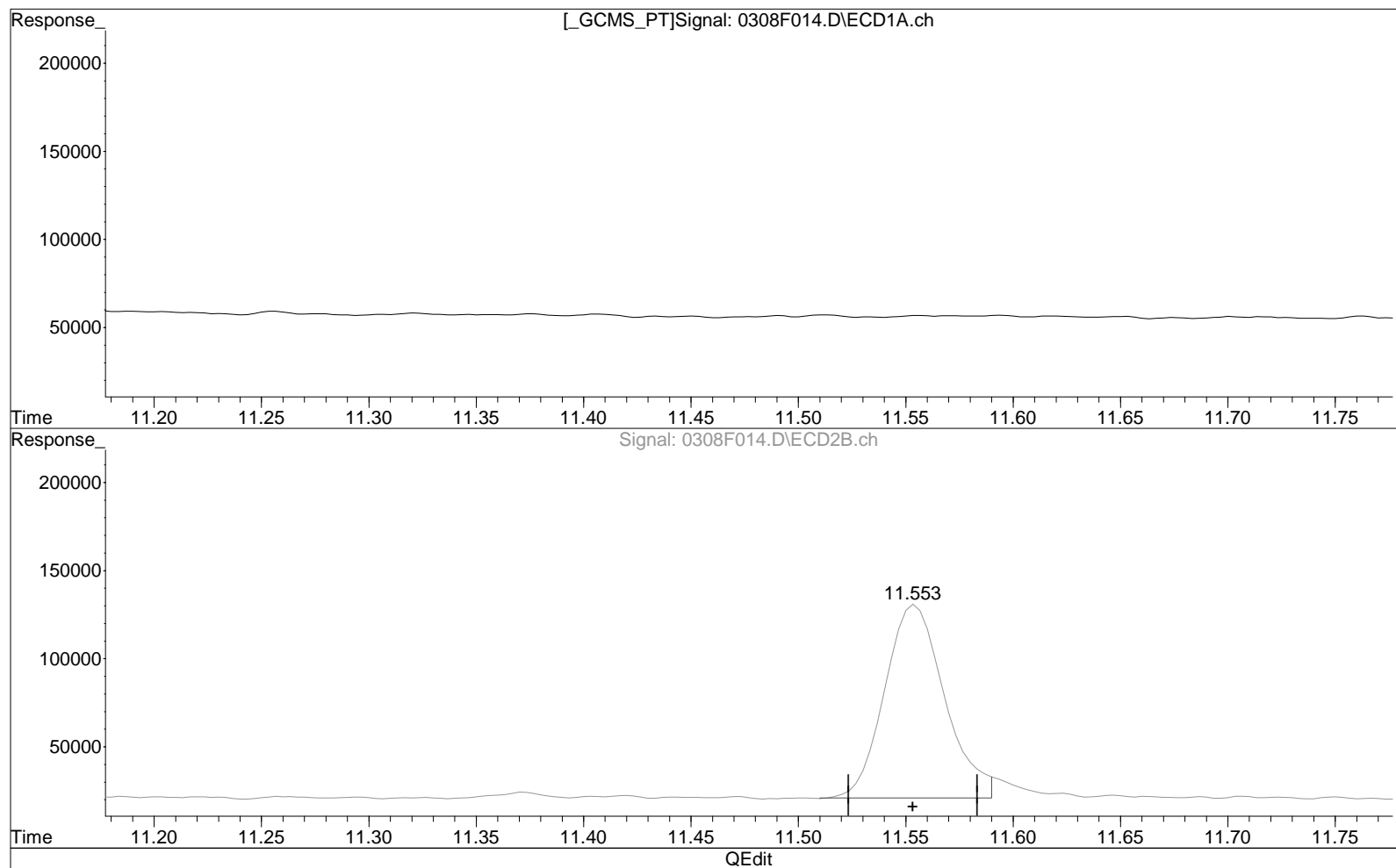
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(44) Chlorpyrifos

12.650min 0.970 ug/L

response 316270

Manual Integration:

After

Baseline Correction

03/09/23

(44) Chlorpyrifos #2

11.553min 0.953 ug/L m

response 214242

Data File : J:\GC38\DATA\030823ICAL\0308F014.D

Vial: 18

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 01:25 am

Operator: CORP\ALKLS.NoUser

Sample : M/P 1/5 PPB GCPS9-24D @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:29:15 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:28:36 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

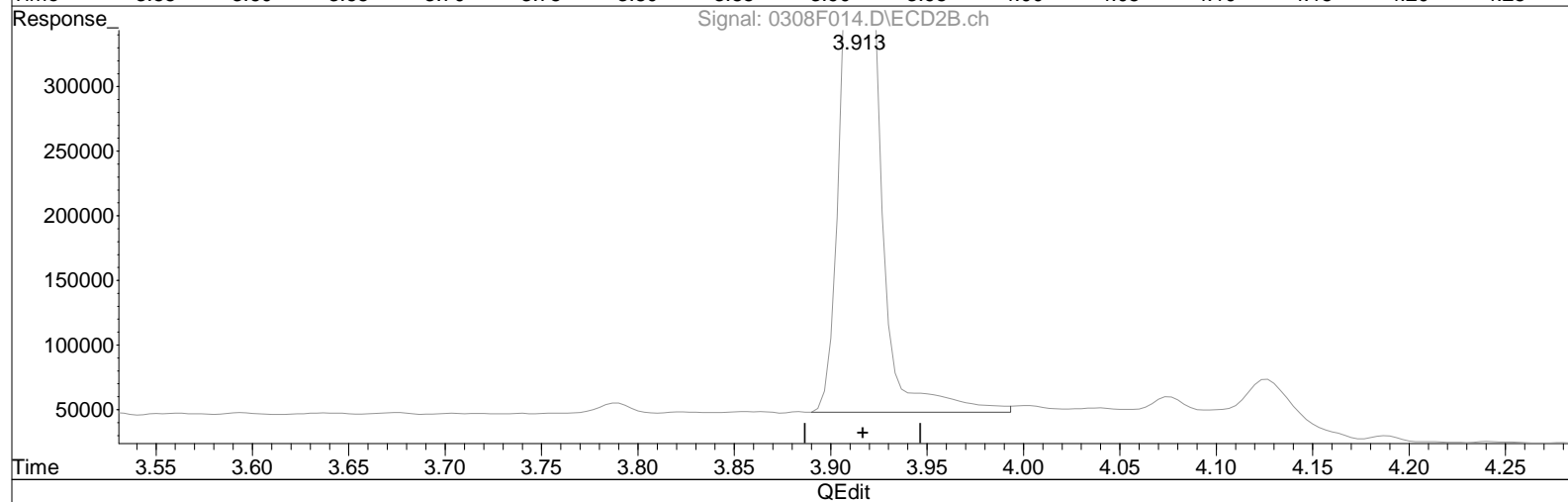
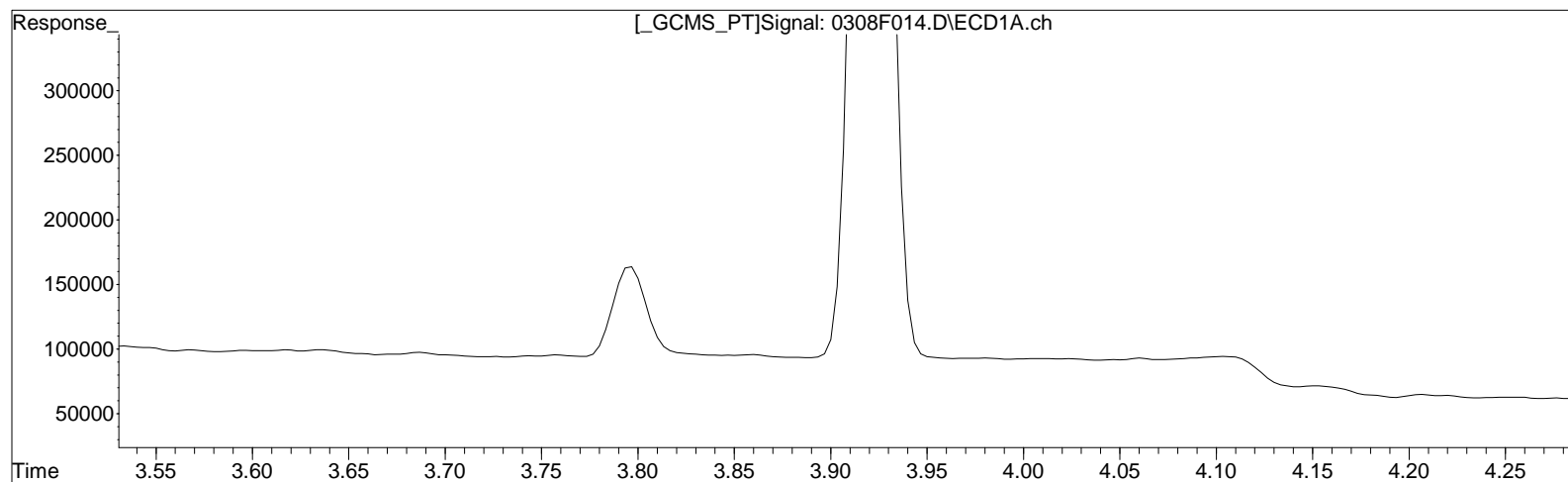
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(50) HCBd

4.780min 0.980 ug/L

response 1087686

Manual Integration:

Before

03/09/23

(50) HCBd #2

3.913min 1.039 ug/L

response 699223

(+) = Expected Retention Time

Data File : J:\GC38\DATA\030823ICAL\0308F014.D

Vial: 18

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 01:25 am

Operator: CORP\ALKLS.NoUser

Sample : M/P 1/5 PPB GCPS9-24D @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:29:15 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:28:36 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

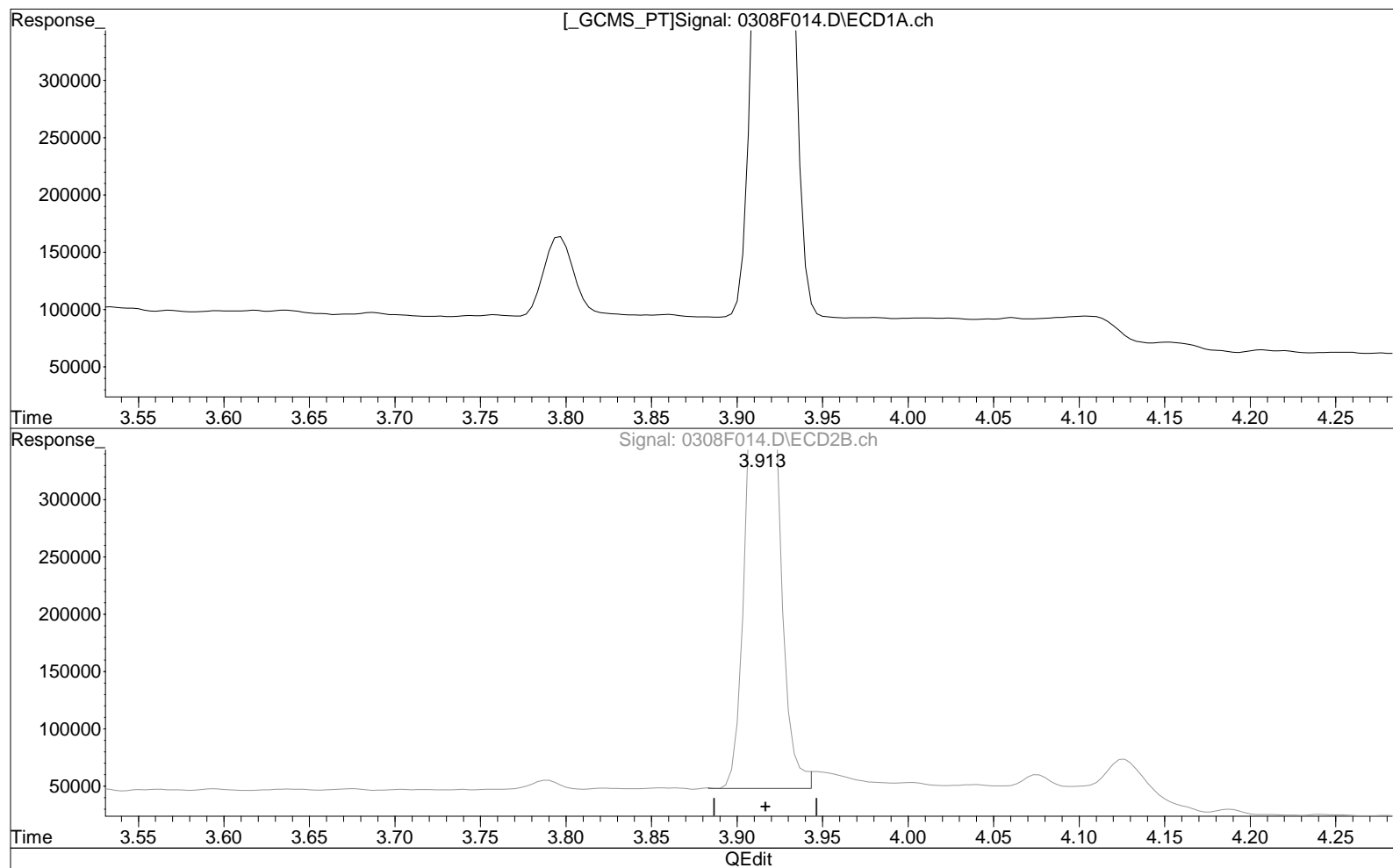
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(50) HCBd

4.780min 0.980 ug/L

response 1087686

Manual Integration:

After

Baseline Correction

03/09/23

(50) HCBd #2

3.913min 1.000 ug/L m

response 672448

Data File : J:\GC38\DATA\030823ICAL\0308F015.D Vial: 19
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 02:09 am Operator: CORP\ALKLS.NoUser
 Sample : M/P 2/10 PPB GCPS9-24D@5X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:23:56 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	49984405	33108635	100.000	100.000
System Monitoring Compounds							
Target Compounds							
44)	Chlorpyrifos	12.650	11.553	618747	429529	2.038	2.050
45)	Oxychlorthane	13.560	12.050	1198841	798037	2.029	2.005
46)	cis-Nonac...	15.590	14.137	1310430	954649	1.990	2.026
47)	trans-Non...	14.393	12.733	1250039	899036	1.998	1.962
48)	Mirex	18.340	16.667	1001843	841367	2.027	1.963
49)	HCE	3.920	3.270	2450406	1633093	1.920	1.974
50)	HCBD	4.780	3.917	2061732	1308835	1.971	1.996m
52)	Perthane	14.930	13.710	181839	131008	10.572	10.915

SemiQuant Compounds - Not Calibrated on this Instrument

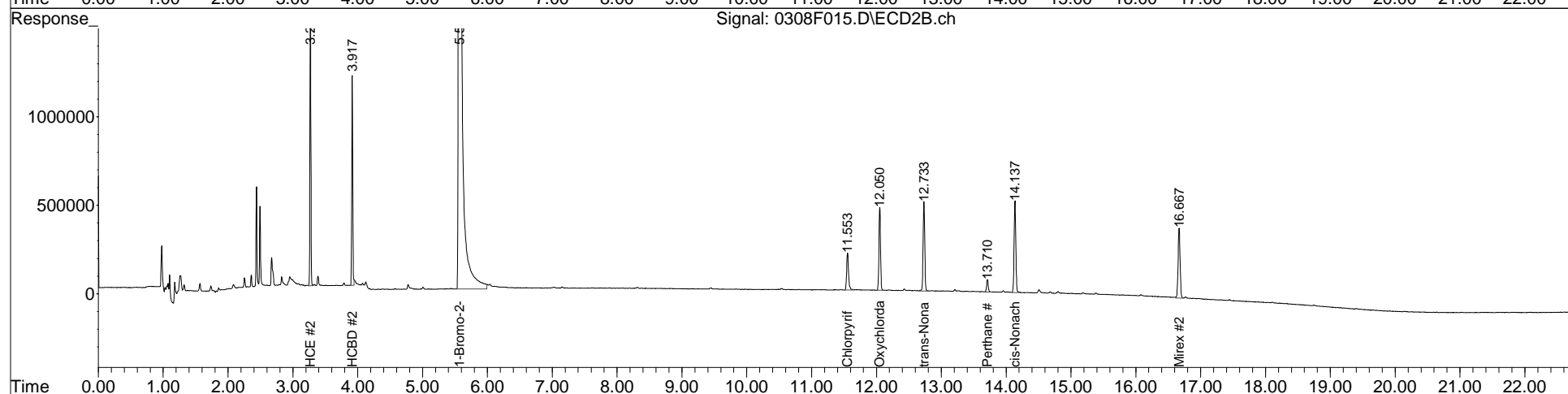
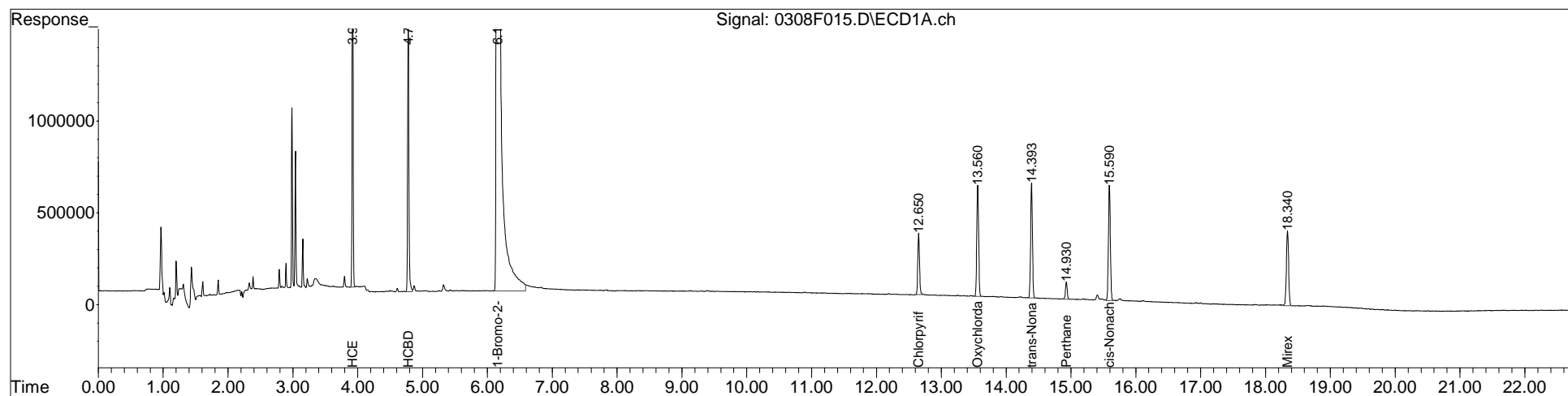
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 02:09 am
Sample : M/P 2/10 PPB GCPS9-24D@5X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:23:56 2023
Quant Results File: GC38-030823-8081.RES

Vial: 19
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F016.D Vial: 20
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 02:53 am Operator: CORP\ALKLS.NoUser
 Sample : M/P 5/25 PPB GCPS9-24D @2X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:24:08 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	50391765	33314368	100.000	100.000
System Monitoring Compounds							
Target Compounds							
44)	Chlorpyrifos	12.650	11.553	1473294	1006280	4.813	4.772
45)	Oxychlorthane	13.563	12.050	2724222	1905752	4.573	4.759
46)	cis-Nonac...	15.593	14.137	2966973	2300845	4.469	4.854
47)	trans-Non...	14.390	12.733	2845604	2150084	4.511	4.664
48)	Mirex	18.340	16.670	2250182	1973932	4.516	4.576
49)	HCE	3.923	3.270	6287336	4203617	4.887	5.051m
50)	HCBD	4.780	3.917	4992545	3275107	4.733	4.965m
52)	Perthane	14.930	13.713	423653	295217	24.432	24.444

SemiQuant Compounds - Not Calibrated on this Instrument

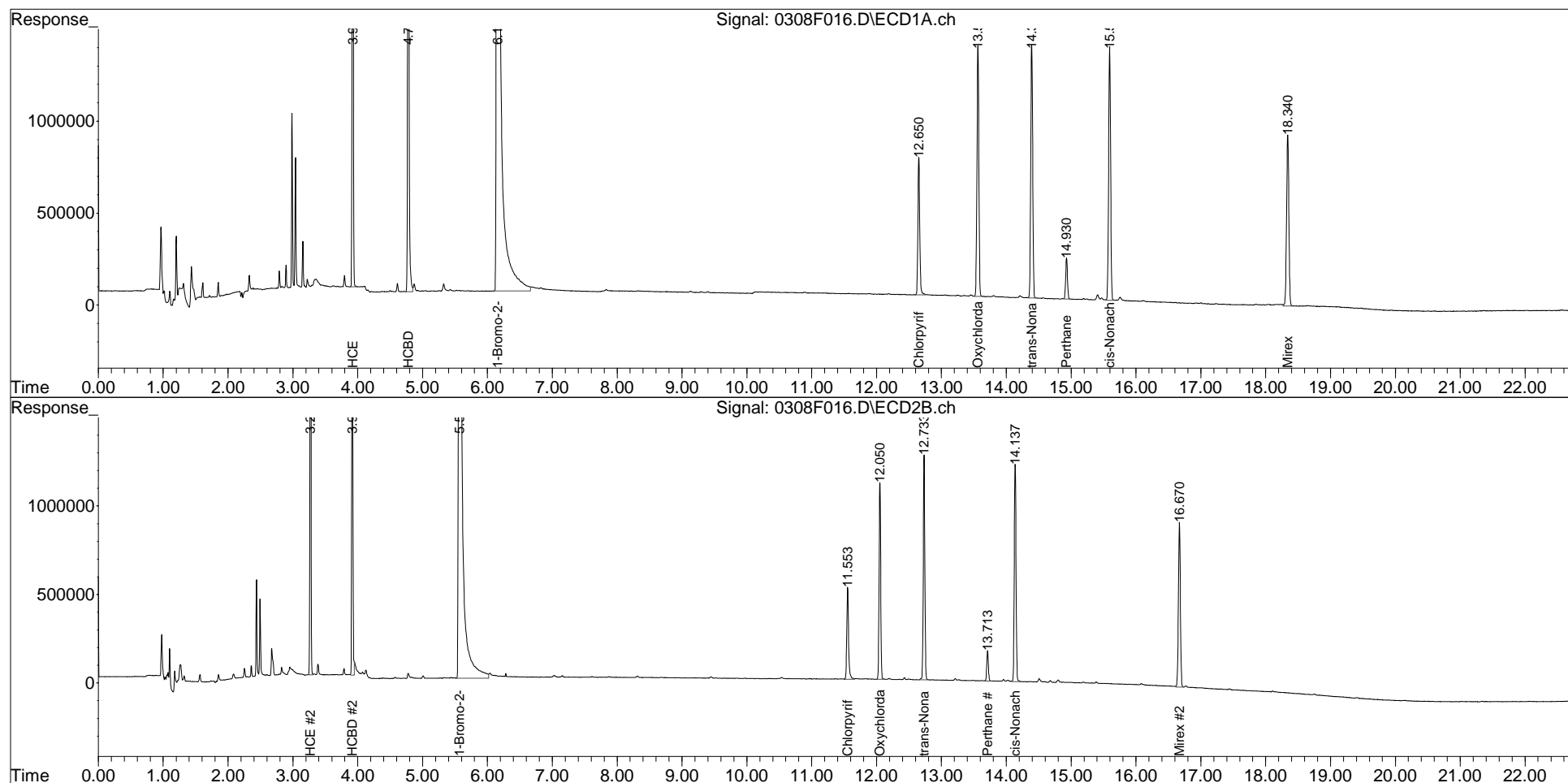
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 02:53 am
Sample : M/P 5/25 PPB GCPS9-24D @2X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:24:08 2023
Quant Results File: GC38-030823-8081.RES

Vial: 20
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F016.D

Vial: 20

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 02:53 am

Operator: CORP\ALKLS.NoUser

Sample : M/P 5/25 PPB GCPS9-24D @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:31:25 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:31:10 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

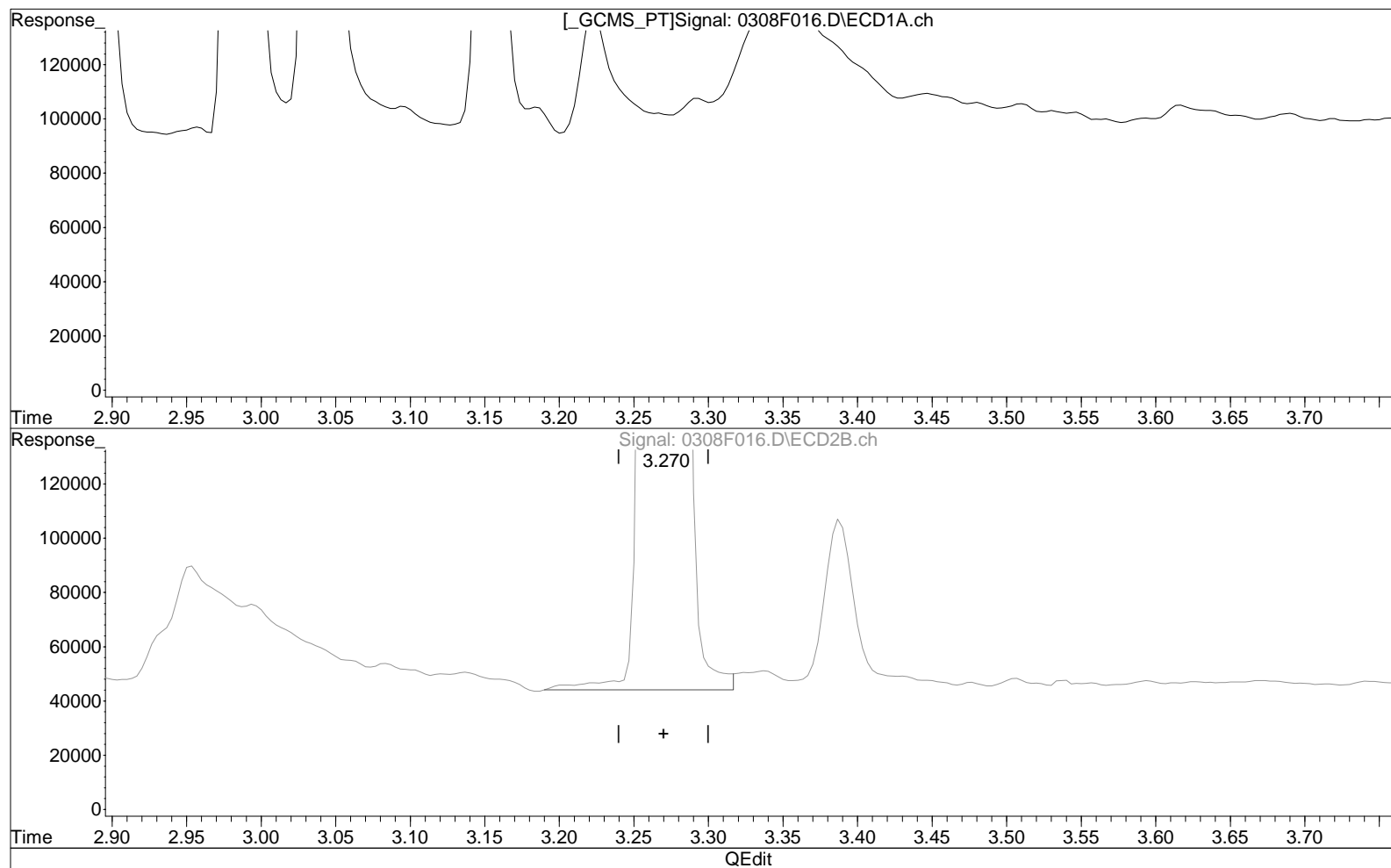
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(49) HCE

3.923min 4.948 ug/L

response 6287336

Manual Integration:

Before

03/09/23

(49) HCE #2

3.270min 5.167 ug/L

response 4223196

Data File : J:\GC38\DATA\030823ICAL\0308F016.D

Vial: 20

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 02:53 am

Operator: CORP\ALKLS.NoUser

Sample : M/P 5/25 PPB GCPS9-24D @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:31:25 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:31:10 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

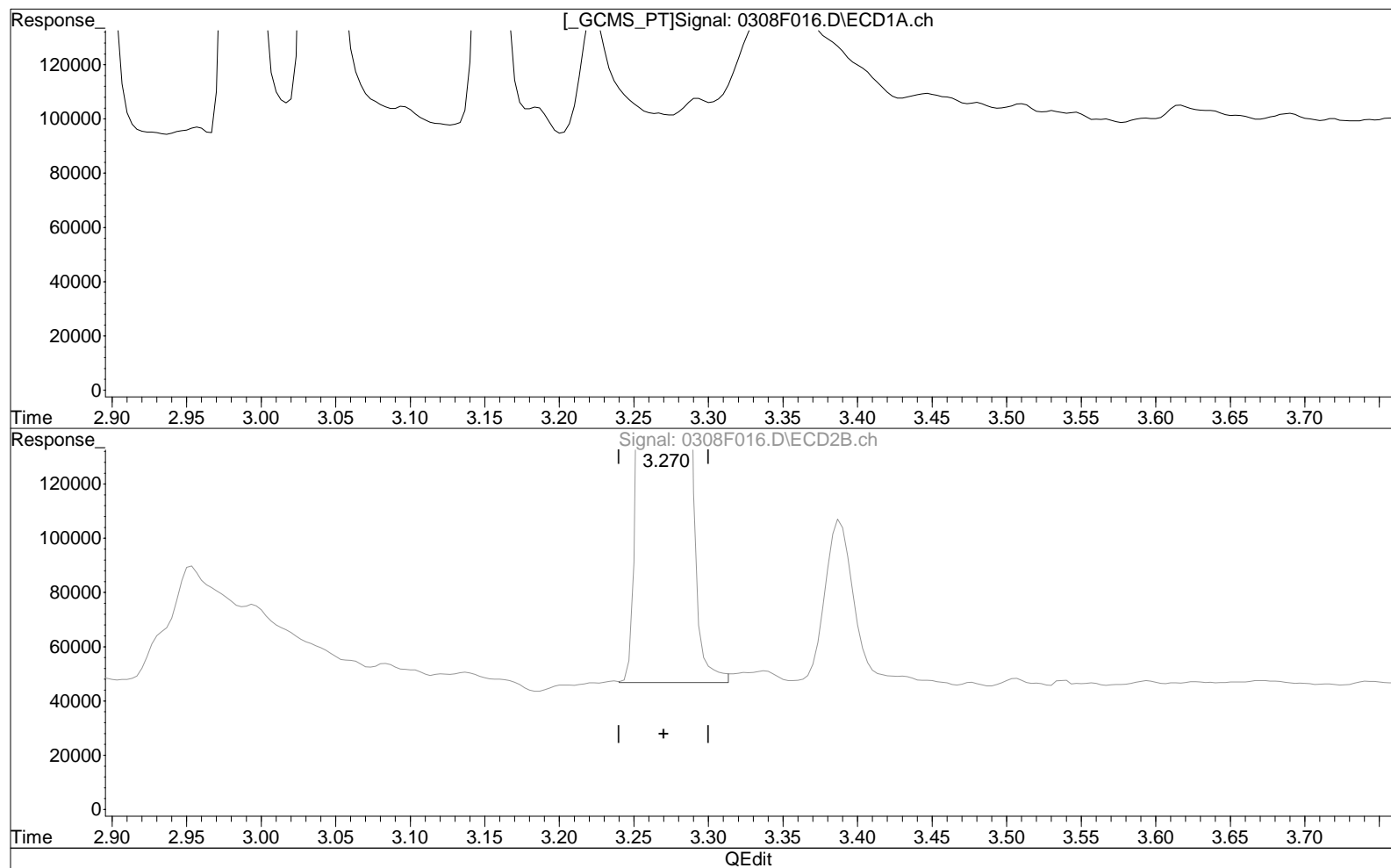
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(49) HCE

3.923min 4.948 ug/L

response 6287336

Manual Integration:

After

Baseline Correction

03/09/23

(49) HCE #2

3.270min 5.143 ug/L m

response 4203617

Data File : J:\GC38\DATA\030823ICAL\0308F016.D

Vial: 20

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 02:53 am

Operator: CORP\ALKLS.NoUser

Sample : M/P 5/25 PPB GCPS9-24D @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:31:25 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:31:10 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

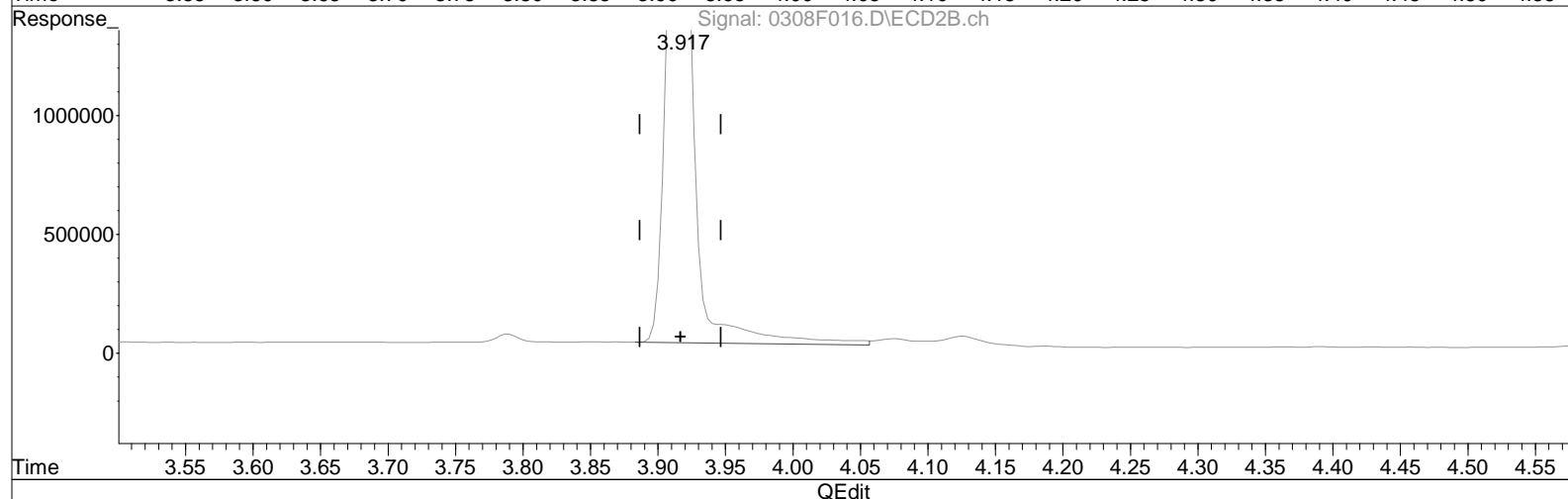
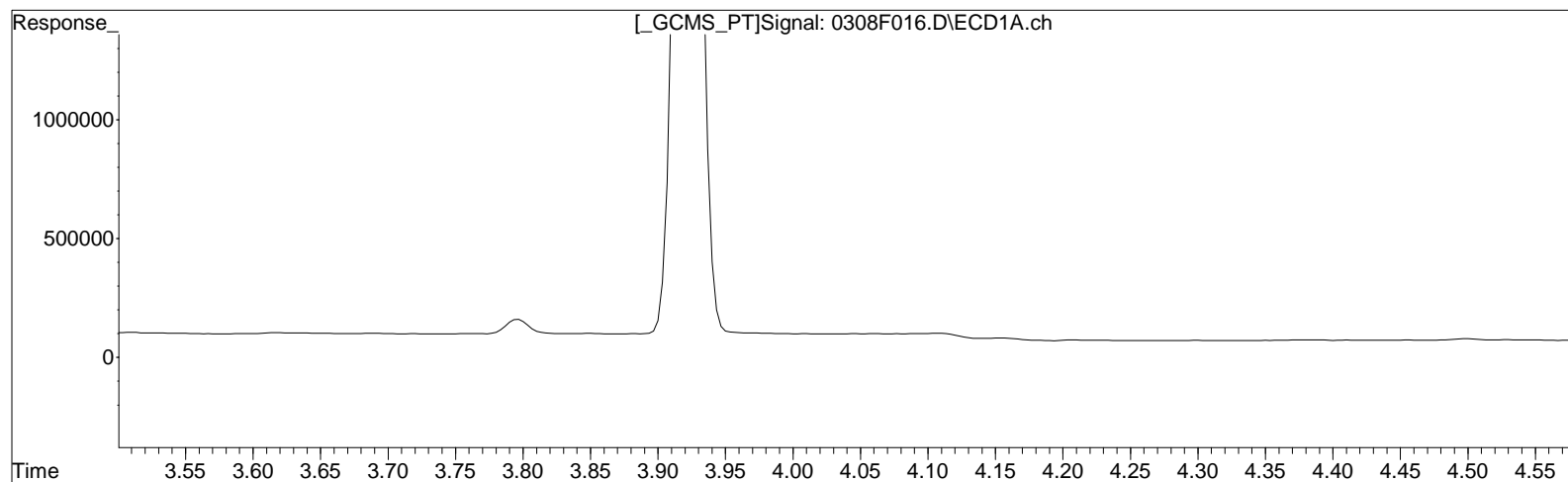
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(50) HCBd

4.780min 4.601 ug/L

response 4992545

Manual Integration:

Before

03/09/23

(50) HCBd #2

3.917min 5.276 ug/L

response 3486318

Data File : J:\GC38\DATA\030823ICAL\0308F016.D

Vial: 20

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 02:53 am

Operator: CORP\ALKLS.NoUser

Sample : M/P 5/25 PPB GCPS9-24D @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:31:25 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:31:10 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

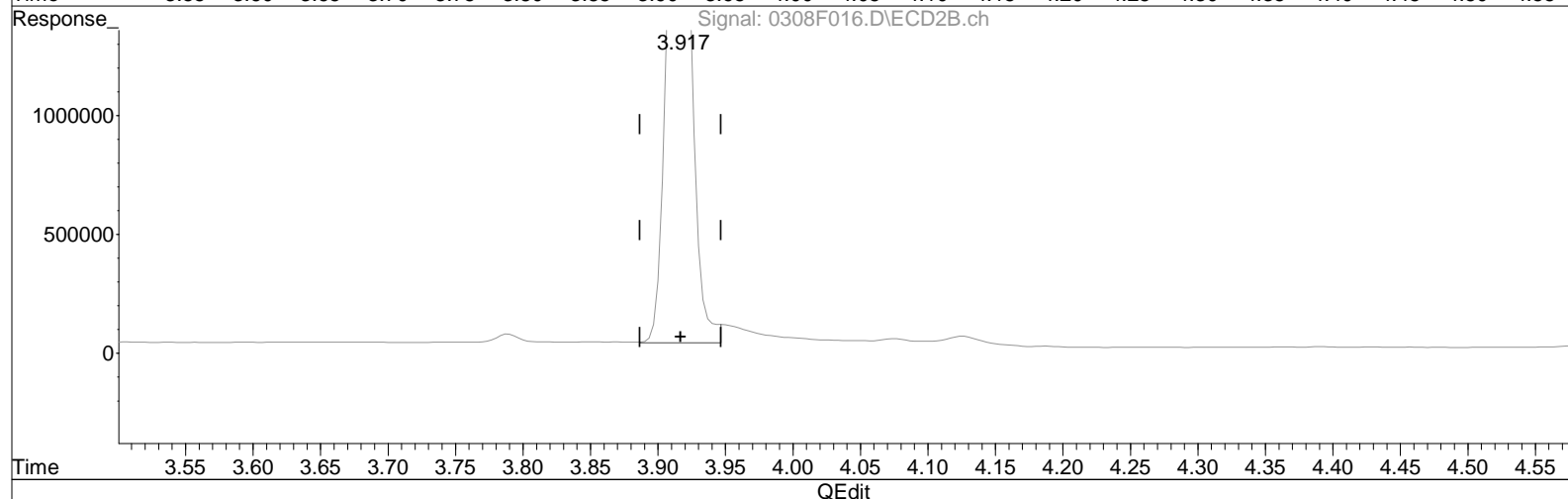
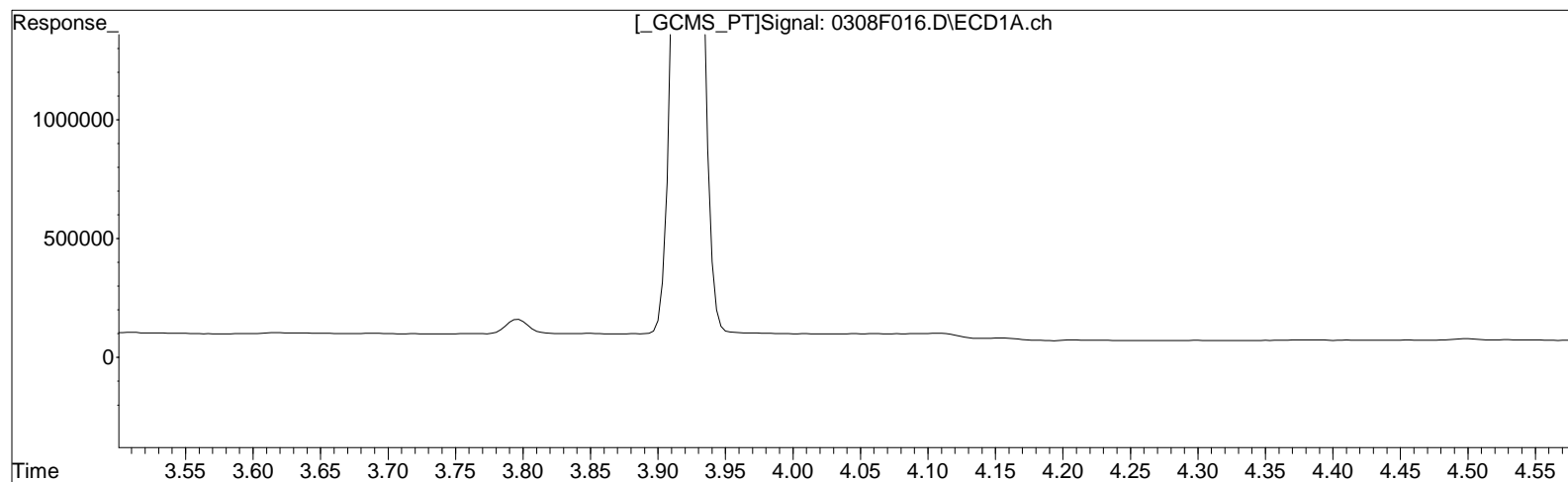
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(50) HCBd

4.780min 4.601 ug/L

response 4992545

Manual Integration:

After

Baseline Correction

03/09/23

(50) HCBd #2

3.917min 4.956 ug/L m

response 3275107

Data File : J:\GC38\DATA\030823ICAL\0308F017.D Vial: 21
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 03:37 am Operator: CORP\ALKLS.NoUser
 Sample : M/P 10/50 PPB GCPS9-24D Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:24:20 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.160	5.570	49570407	32573819	100.000	100.000
System Monitoring Compounds							
Target Compounds							
44)	Chlorpyrifos	12.650	11.553	2651416	1863935	8.804	9.041
45)	Oxychlorthane	13.563	12.050	5009975	3614091	8.549	9.231
46)	cis-Nonac...	15.593	14.137	5515166	4456539	8.445	9.615
47)	trans-Non...	14.393	12.733	5296770	4130793	8.535	9.164
48)	Mirex	18.340	16.670	4015454	3631048	8.192	8.609
49)	HCE	3.923	3.270	12824569	8639697	10.133	10.617
50)	HCBD	4.780	3.917	9739695	6453073	9.387	10.004m
52)	Perthane	14.930	13.710	807435	553952	47.336	46.910

SemiQuant Compounds - Not Calibrated on this Instrument

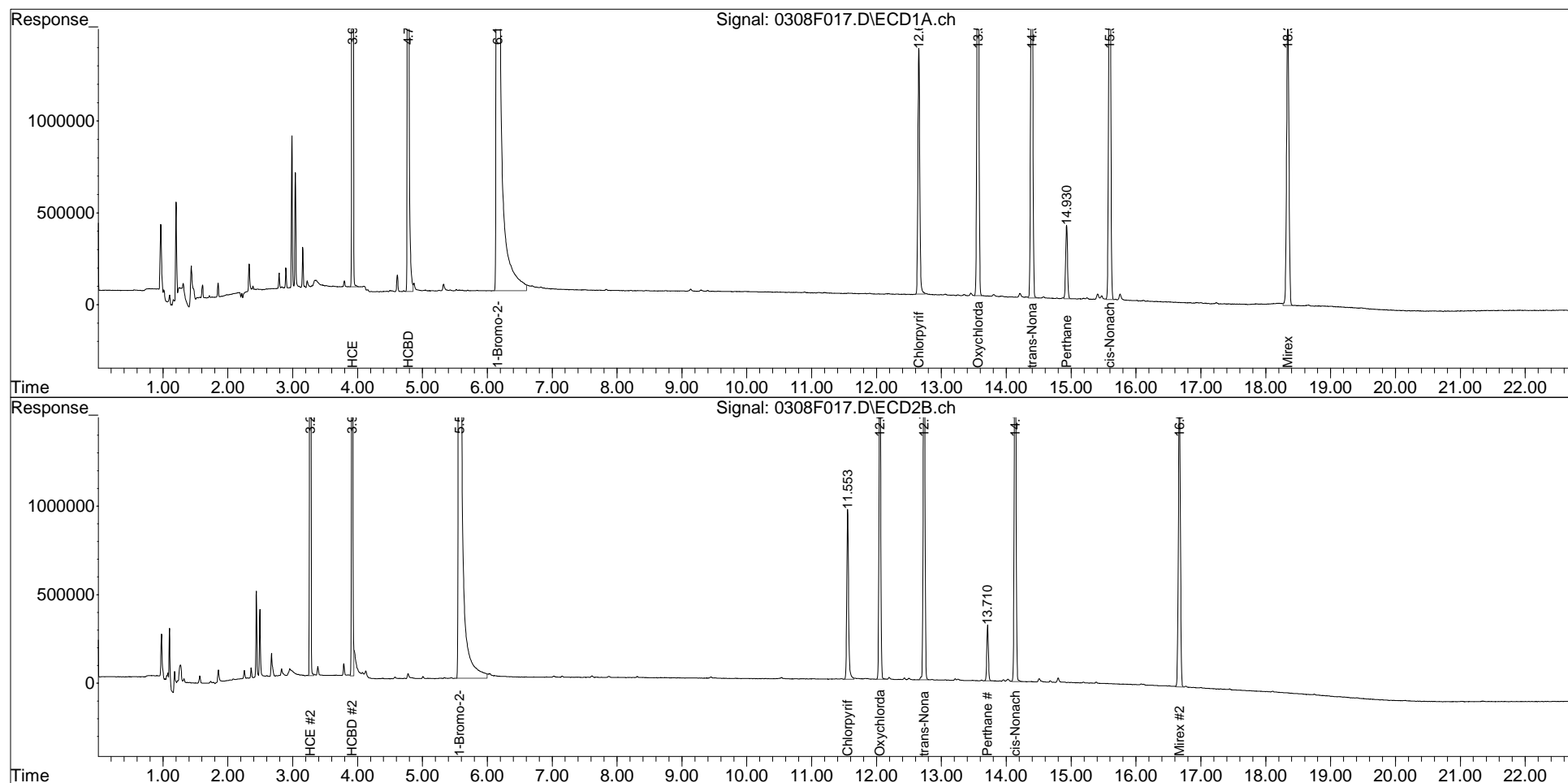
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 03:37 am
Sample : M/P 10/50 PPB GCPS9-24D
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:24:20 2023
Quant Results File: GC38-030823-8081.RES

Vial: 21
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F017.D

Vial: 21

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 03:37 am

Operator: CORP\ALKLS.NoUser

Sample : M/P 10/50 PPB GCPS9-24D

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:33:29 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:33:14 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

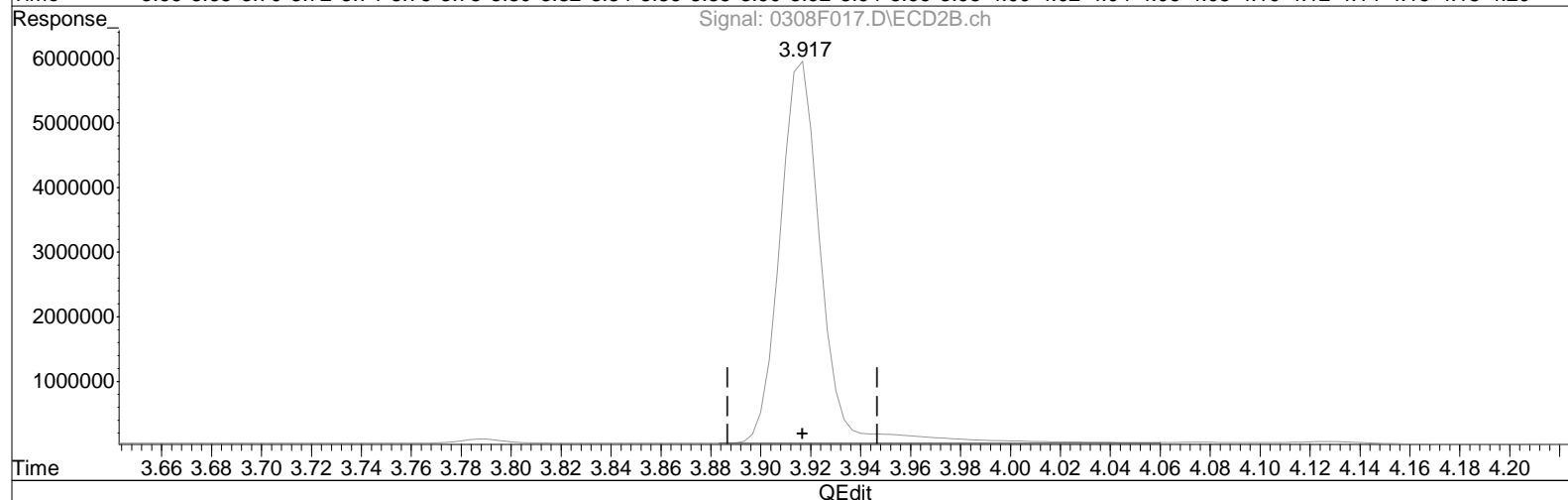
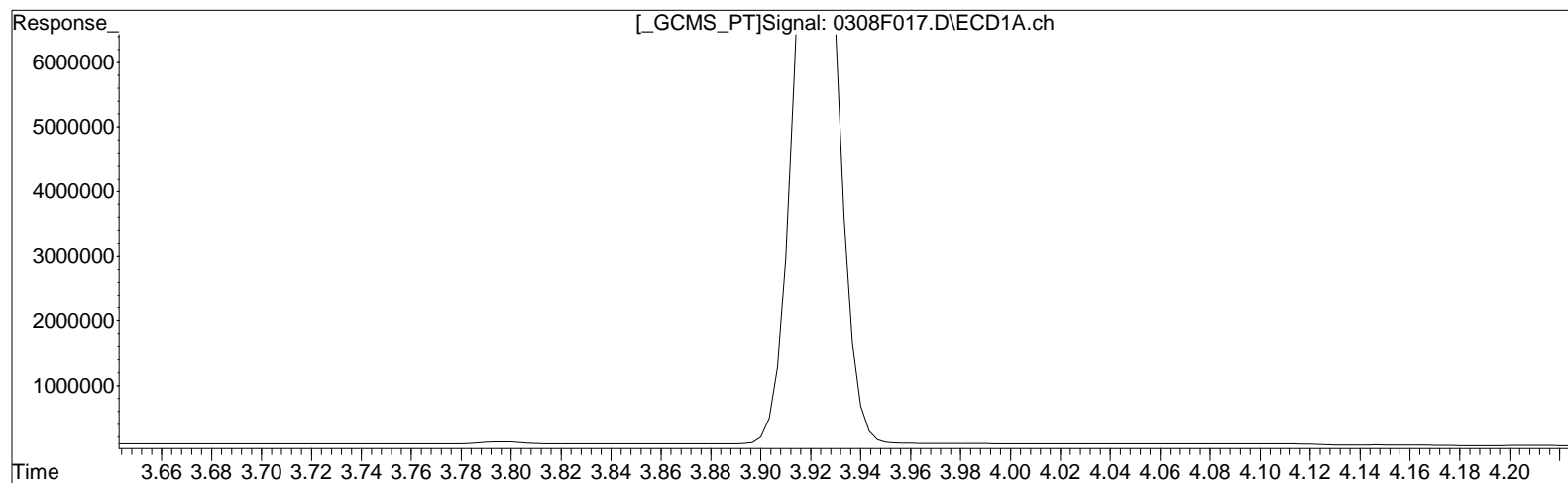
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(50) HCBd

4.780min 9.273 ug/L

response 9739695

Manual Integration:

Before

03/09/23

(50) HCBd #2

3.917min 10.509 ug/L

response 6777781

Data File : J:\GC38\DATA\030823ICAL\0308F017.D

Vial: 21

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 03:37 am

Operator: CORP\ALKLS.NoUser

Sample : M/P 10/50 PPB GCPS9-24D

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:33:29 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:33:14 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

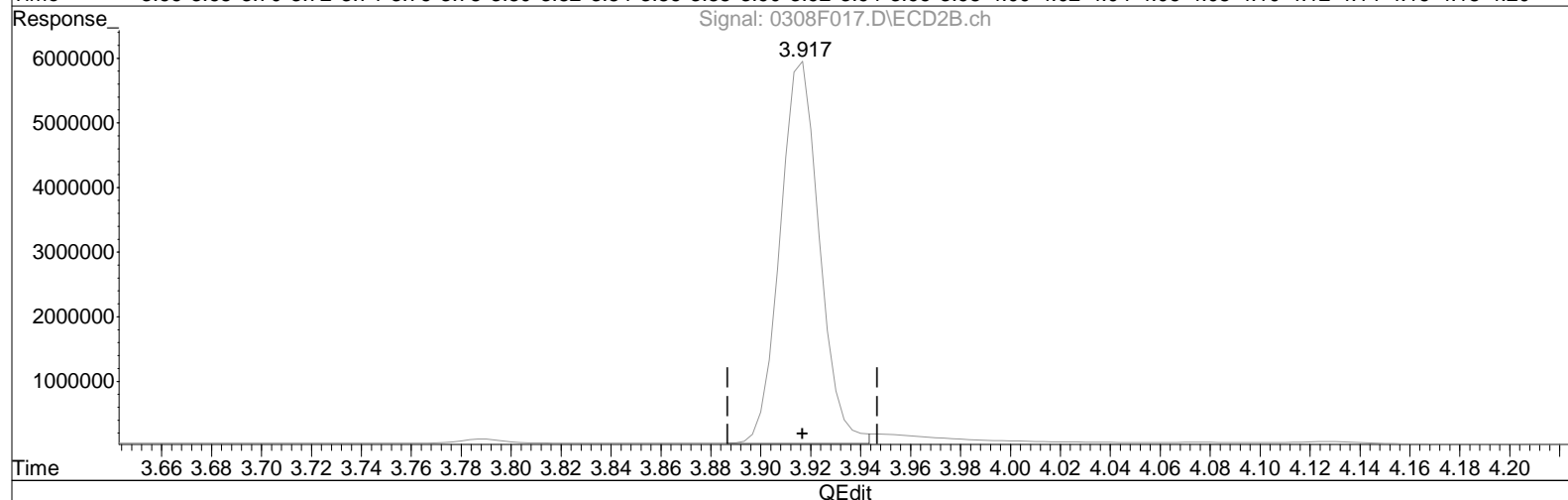
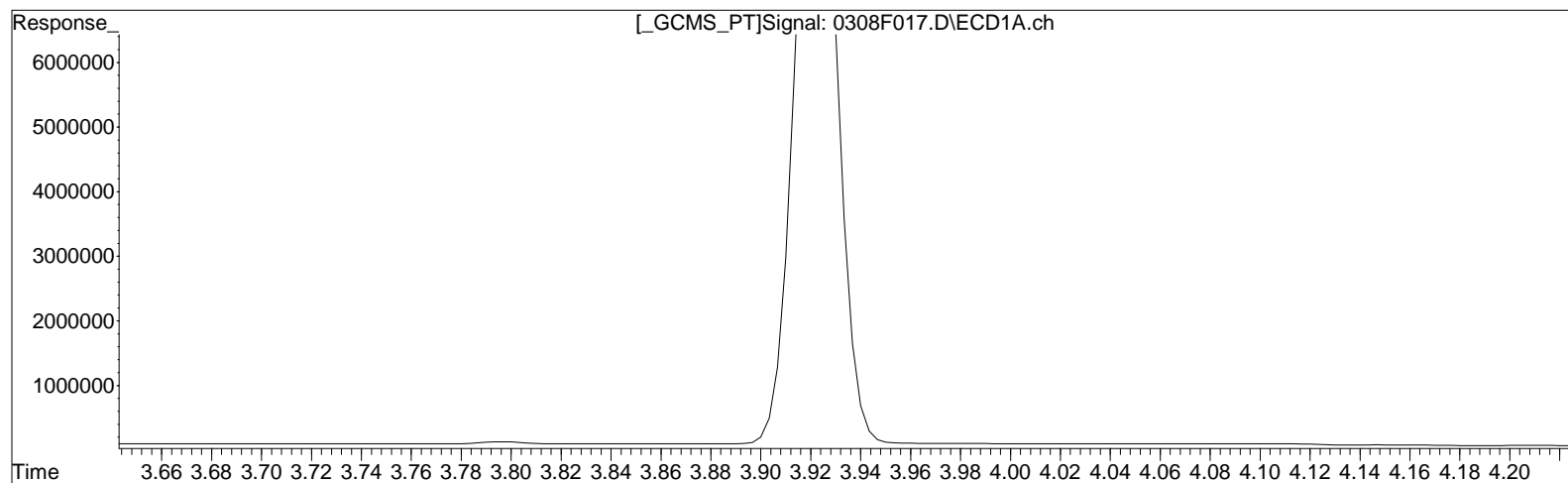
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(50) HCBd

4.780min 9.273 ug/L

response 9739695

Manual Integration:

After

Baseline Correction

03/09/23

(50) HCBd #2

3.917min 10.005 ug/L m

response 6453073

(+) = Expected Retention Time

Data File : J:\GC38\DATA\030823ICAL\0308F018.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 04:22 am Operator: CORP\ALKLS.NoUser
Sample : PERTH 100 PPB GSP9-124E Inst : GC38
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:24:32 2023
Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.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

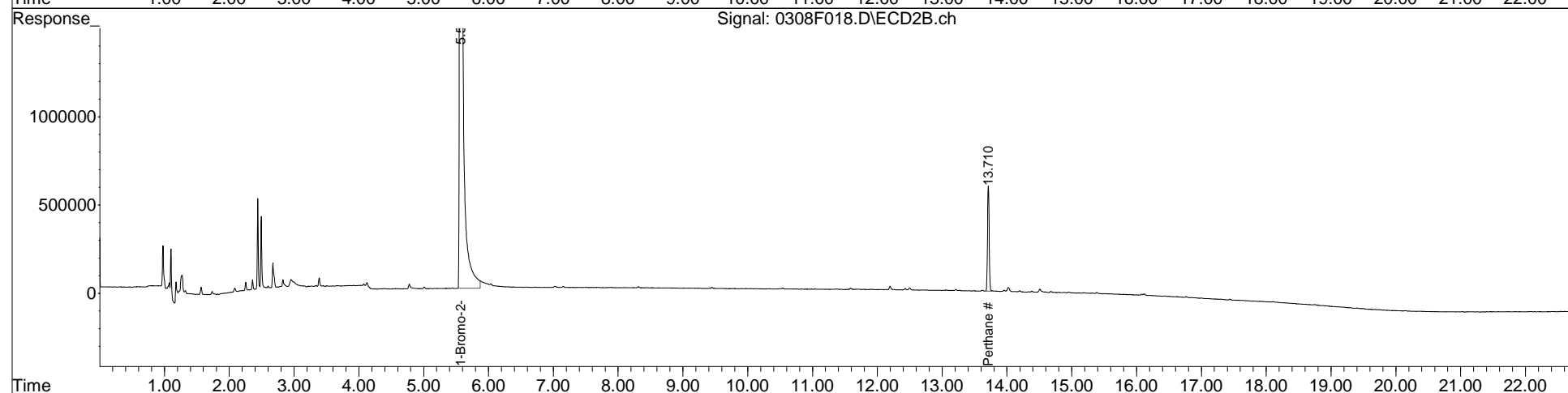
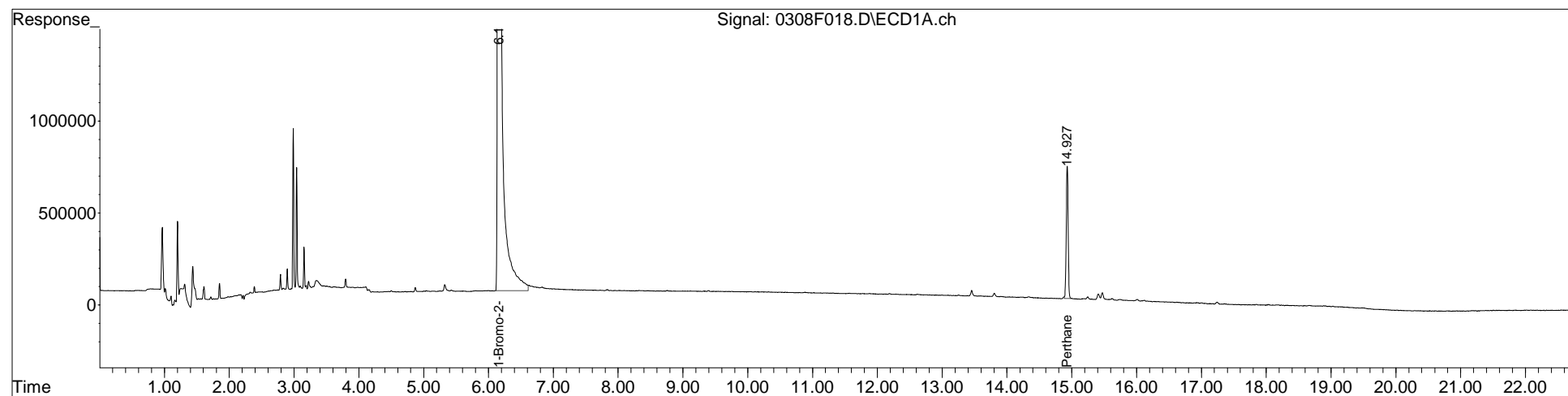
Internal Standards							
43)	1-Bromo-2...	6.157	5.570	49119669	31971190	100.000	100.000
System Monitoring Compounds							
Target Compounds							
52)	Perthane	14.927	13.710	1462851	1038549	86.547	89.604
SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F018.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 04:22 am Operator: CORP\ALKLS.NoUser
Sample : PERTH 100 PPB GSP9-124E Inst : GC38
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:24:32 2023
Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F021.D Vial: 25
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 06:34 am Operator: CORP\ALKLS.NoUser
 Sample : TOX 10 PPB GCPS9-18K @50X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:24:56 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	48009885	31539635	100.000	100.000
System Monitoring Compounds							
Target Compounds							
30)	Toxaphene	15.713	14.337	55418	69100	10.510m	10.474m
31)	Toxaphene...	15.790	14.420	57315	54804	10.892m	10.680
32)	Toxaphene...	15.923	14.583	83915	68071	10.033	10.655
33)	Toxaphene...	16.220	14.963	65286	45773	10.587	9.704
34)	Toxaphene...	16.397	15.823	93362	77073	11.323	10.728
35)	Toxaphene...	17.420	16.070	105380	84665	10.081	9.622

SemiQuant Compounds - Not Calibrated on this Instrument

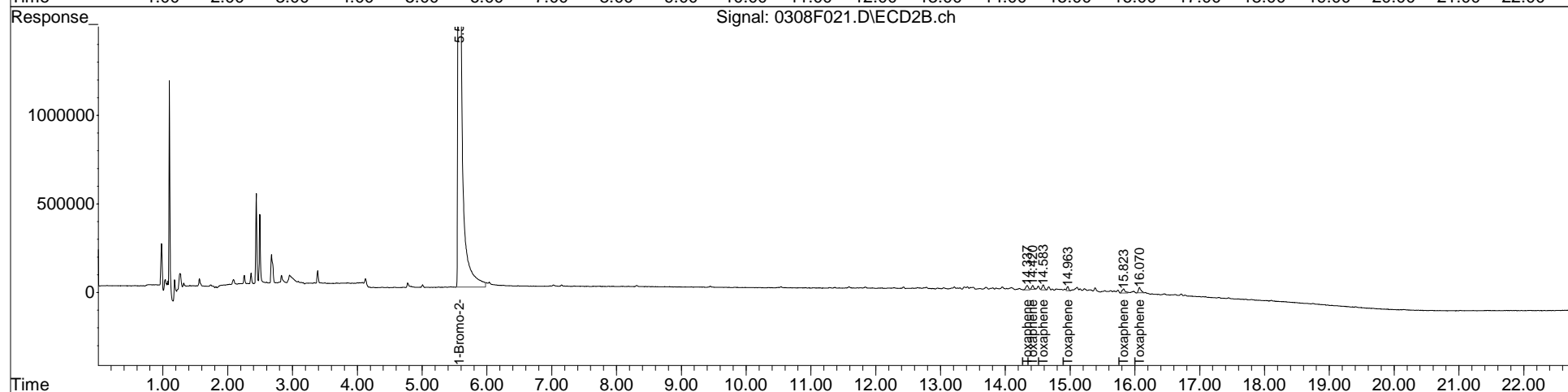
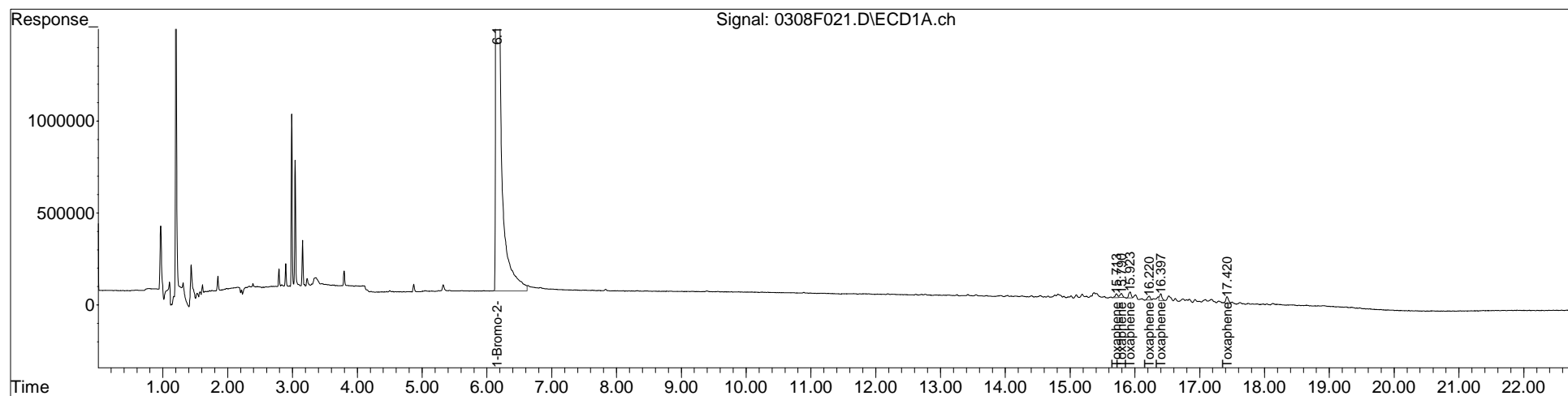
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 06:34 am
Sample : TOX 10 PPB GCPS9-18K @50X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:24:56 2023
Quant Results File: GC38-030823-8081.RES

Vial: 25
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

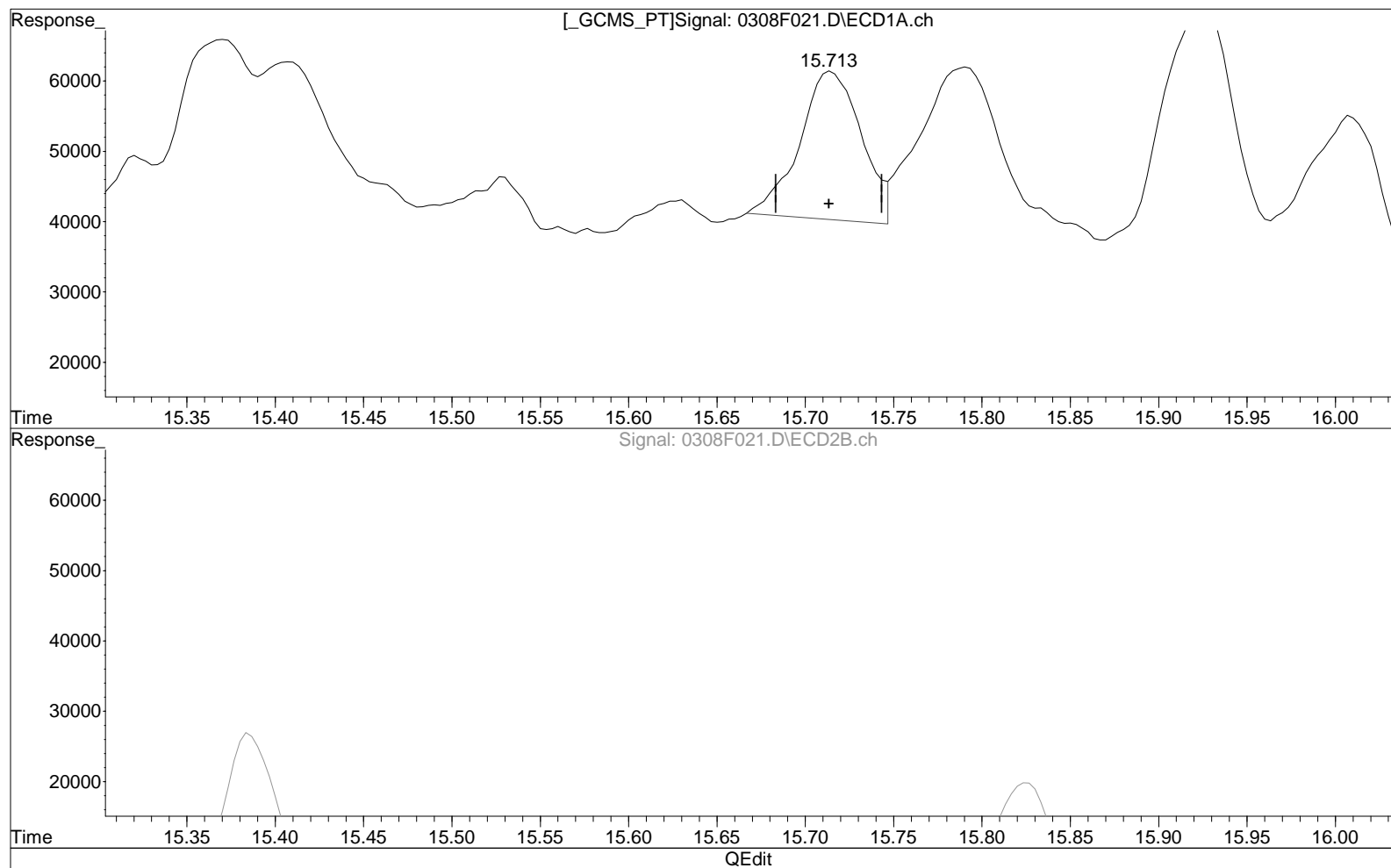
Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F021.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 06:34 am Operator: CORP\ALKLS.NoUser
Sample : TOX 10 PPB GCPS9-18K @50X Inst : GC38
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 09 16:40:49 2023
Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Thu Mar 09 16:40:33 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



(30) Toxaphene

15.713min 9.389 ug/L

response 51689

Manual Integration:

Before

03/09/23

(30) Toxaphene #2

14.337min 9.481 ug/L

response 62416

Data File : J:\GC38\DATA\030823ICAL\0308F021.D

Vial: 25

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 06:34 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 10 PPB GCPS9-18K @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:40:49 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:40:33 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

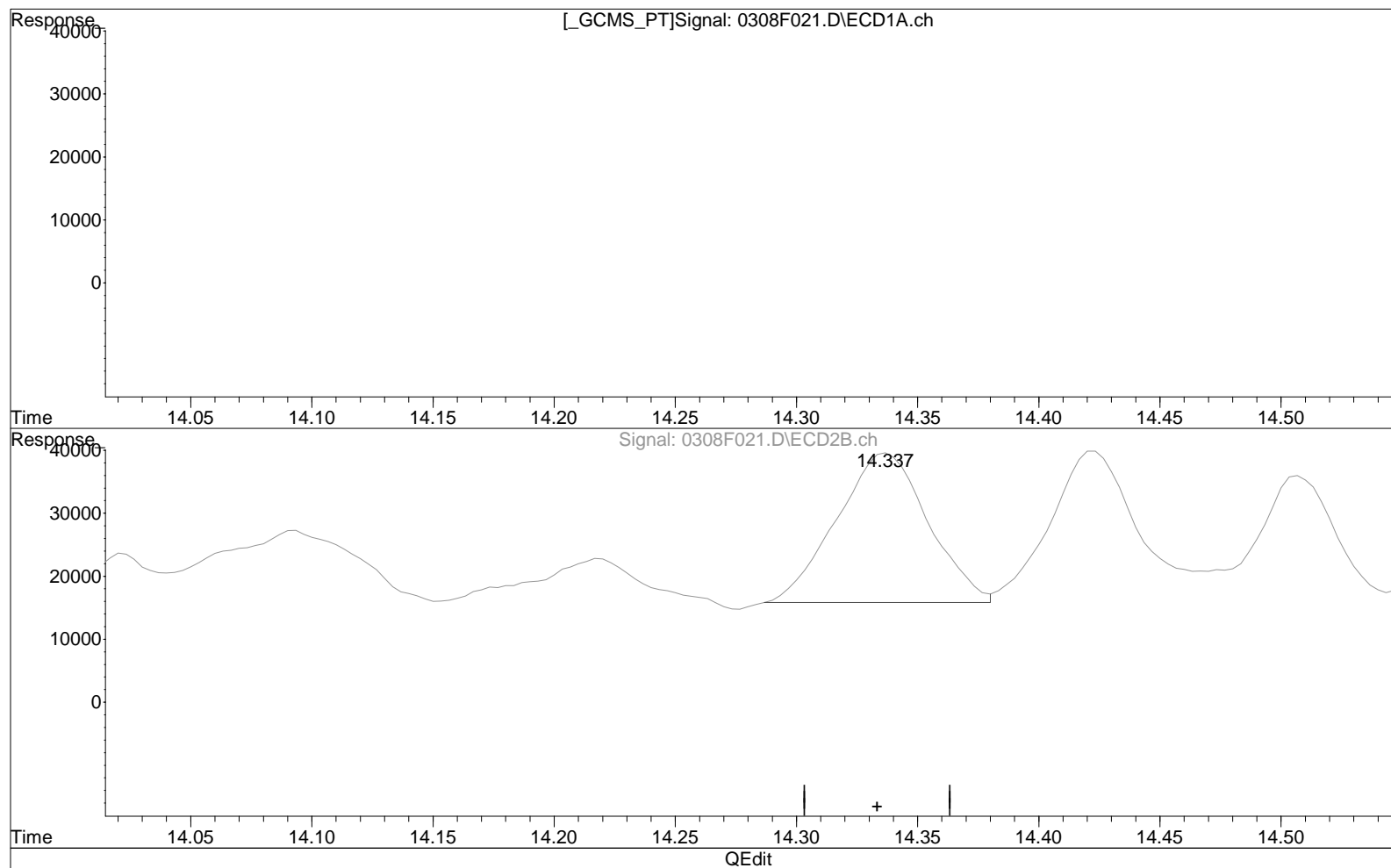
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(30) Toxaphene

15.713min 10.067 ug/L m

response 55418

Manual Integration:

Before

03/09/23

(30) Toxaphene #2

14.337min 9.481 ug/L

response 62416

Data File : J:\GC38\DATA\030823ICAL\0308F021.D

Vial: 25

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 06:34 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 10 PPB GCPS9-18K @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:40:49 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:40:33 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

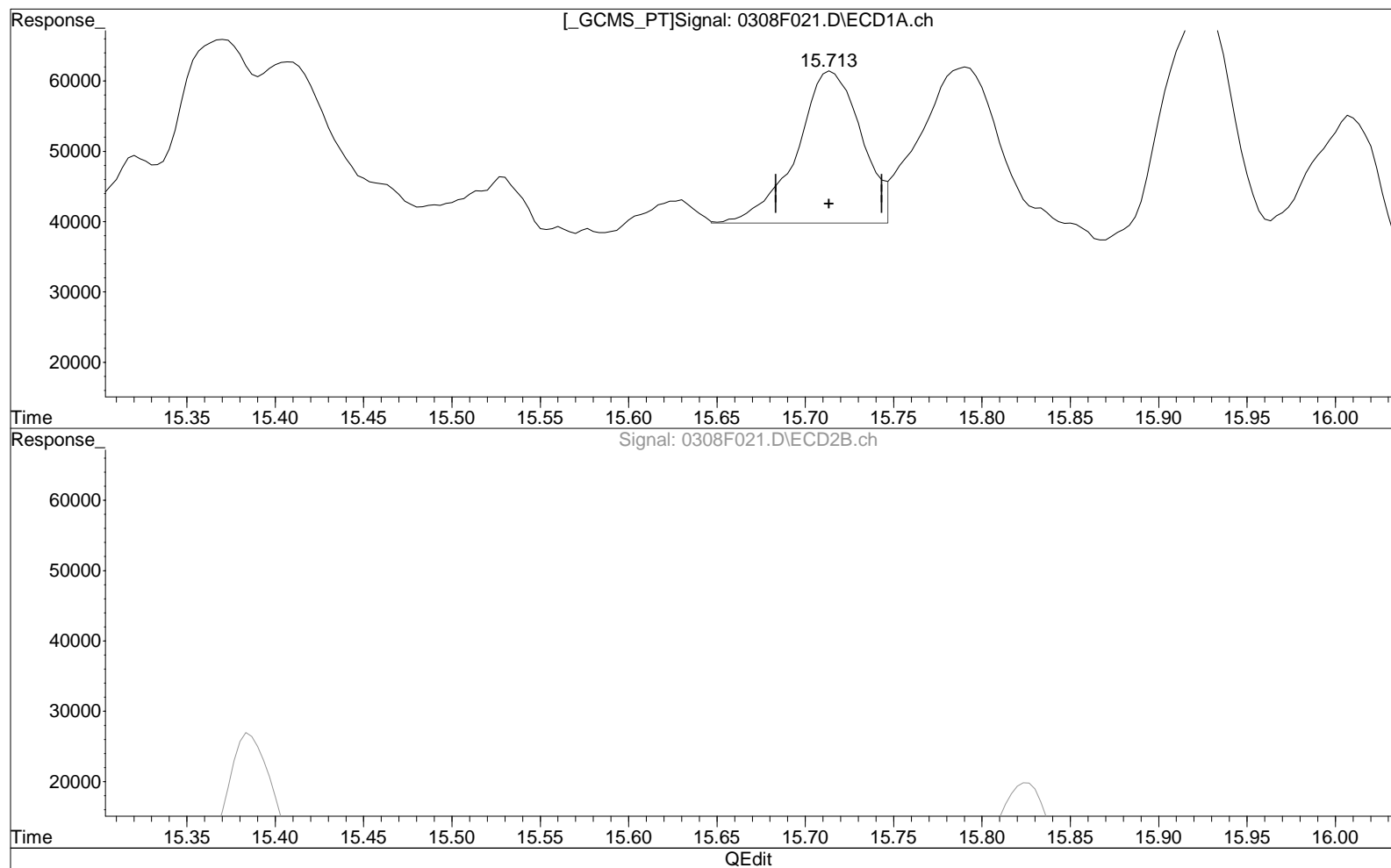
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(30) Toxaphene

15.713min 10.067 ug/L m

response 55418

(30) Toxaphene #2

14.337min 9.481 ug/L

response 62416

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F021.D

Vial: 25

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 06:34 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 10 PPB GCPS9-18K @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:40:49 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:40:33 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

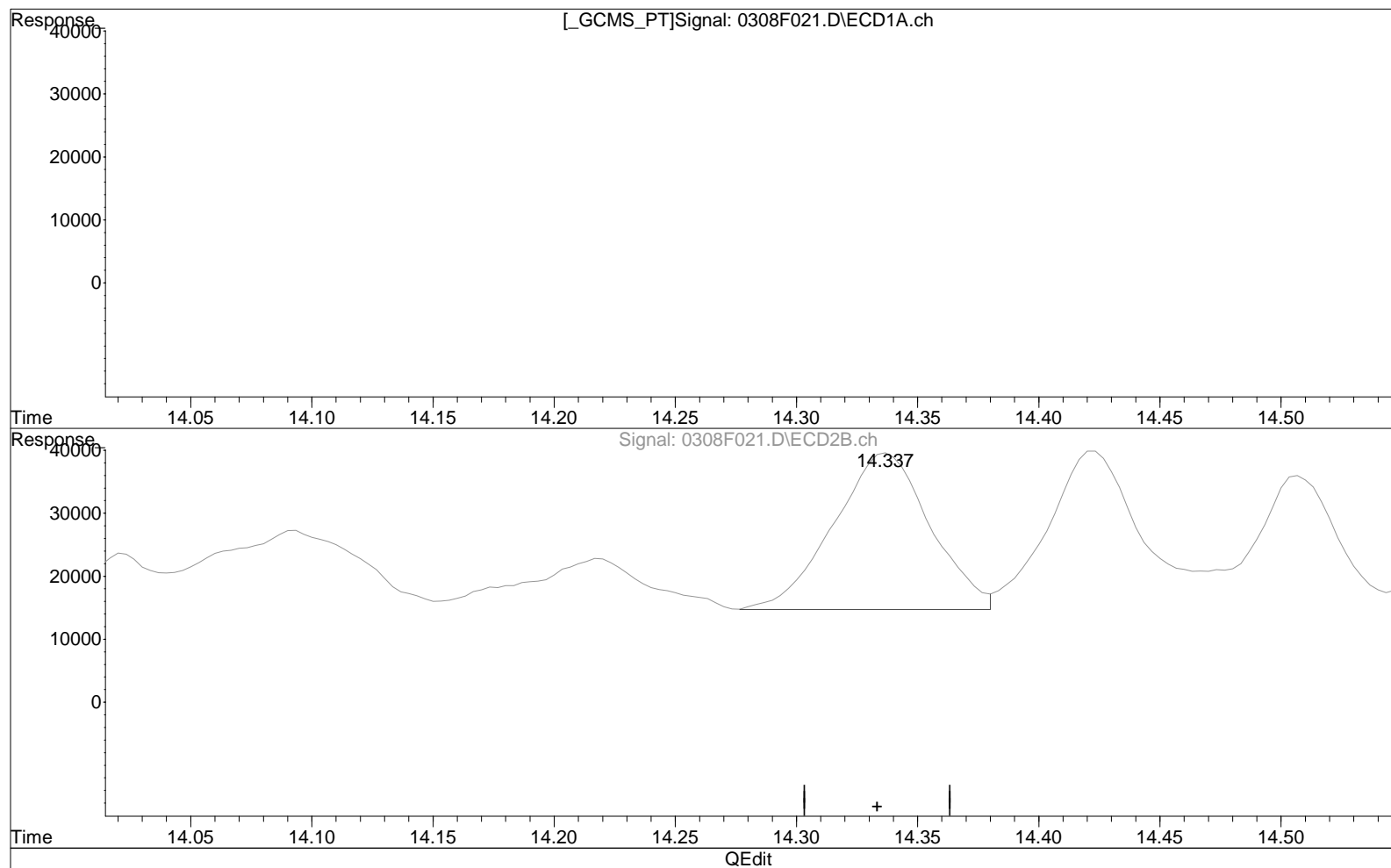
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(30) Toxaphene

15.713min 10.067 ug/L m

response 55418

(30) Toxaphene #2

14.337min 10.496 ug/L m

response 69100

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F021.D

Vial: 25

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 06:34 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 10 PPB GCPS9-18K @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:44:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:40:33 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

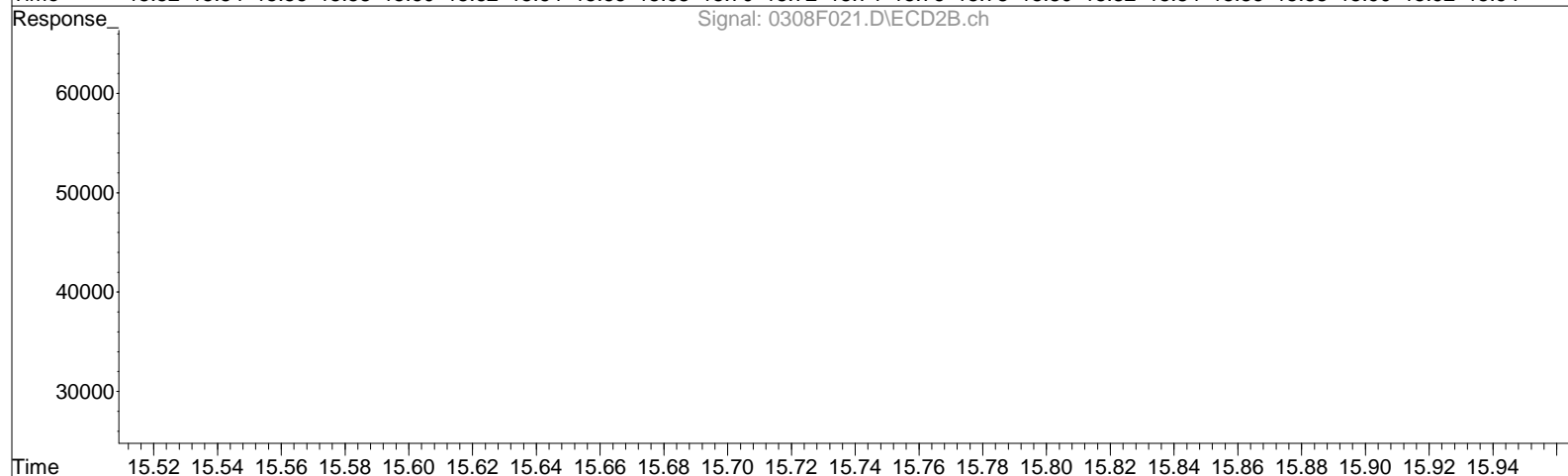
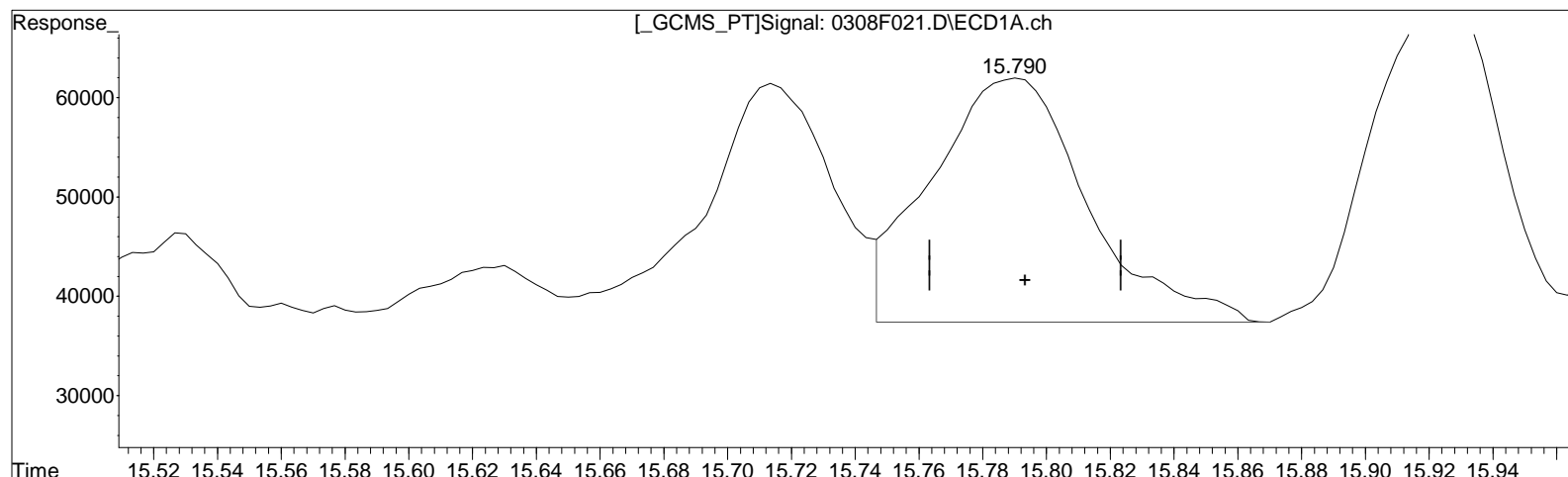
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(31) Toxaphene {2}

15.790min 0.000 ug/L

response 83022

Manual Integration:

Before

03/09/23

(31) Toxaphene {2} #2

14.420min 10.856 ug/L

response 54804

Data File : J:\GC38\DATA\030823ICAL\0308F021.D

Vial: 25

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 06:34 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 10 PPB GCPS9-18K @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:44:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:40:33 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

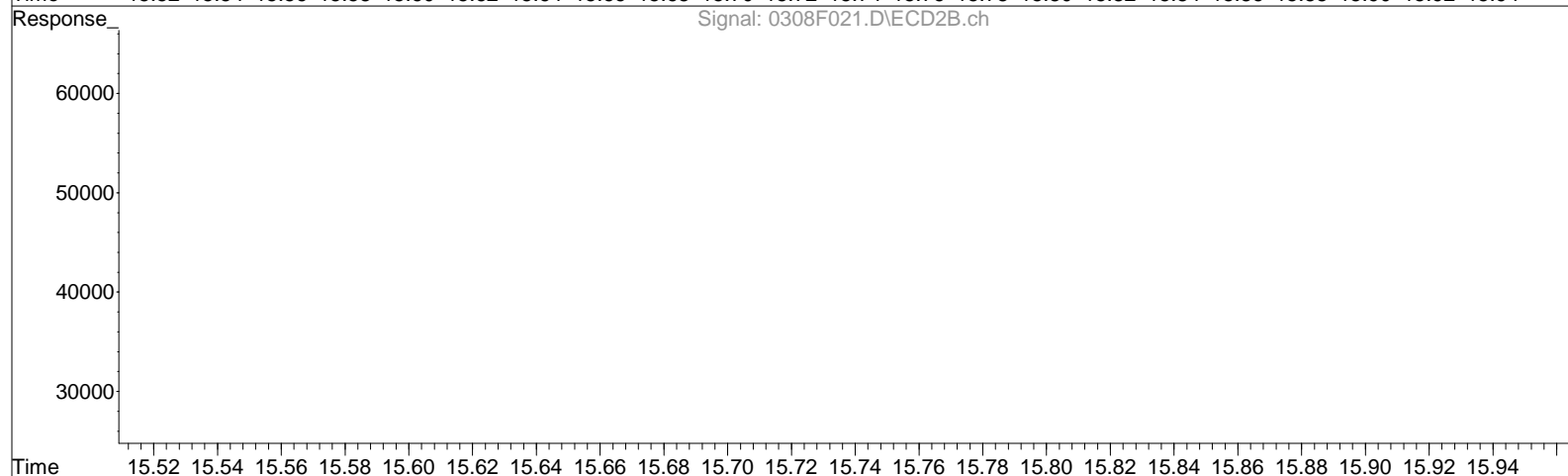
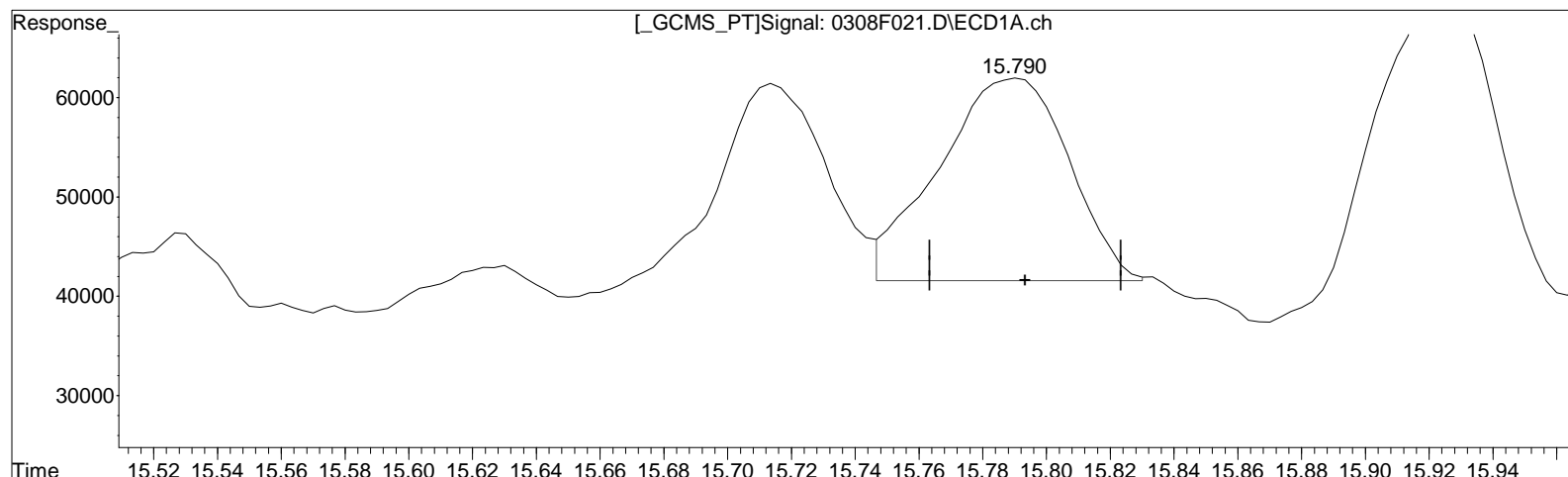
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(31) Toxaphene {2}

15.790min 0.000 ug/L m

response 57315

(31) Toxaphene {2} #2

14.420min 10.856 ug/L

response 54804

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F022.D Vial: 26
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 07:18 am Operator: CORP\ALKLS.NoUser
 Sample : TOX 25 PPB GCPS9-18K @20X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:25:09 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	48553682	31875110	100.000	100.000
System Monitoring Compounds							
Target Compounds							
30)	Toxaphene	15.713	14.337	148599	167033	27.865	25.053
31)	Toxaphene...	15.787	14.420	146341	145418	27.500	28.041
32)	Toxaphene...	15.923	14.583	228257	161114	26.986	24.954
33)	Toxaphene...	16.217	14.963	162843	116489	26.111	24.437
34)	Toxaphene...	16.397	15.823	221701	171276	26.586	23.590
35)	Toxaphene...	17.420	16.067	258151	219551	24.420m	24.689m

SemiQuant Compounds - Not Calibrated on this Instrument

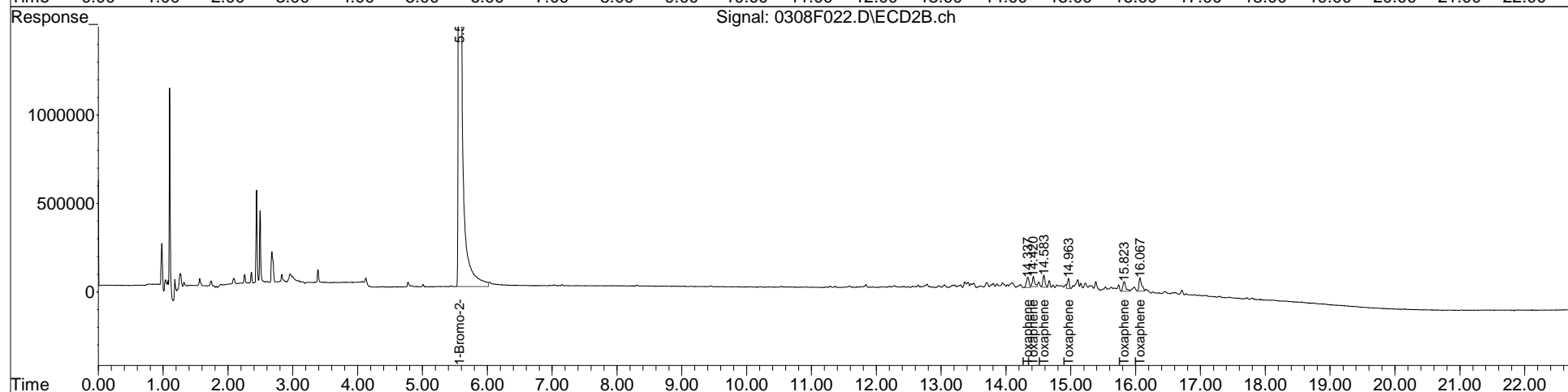
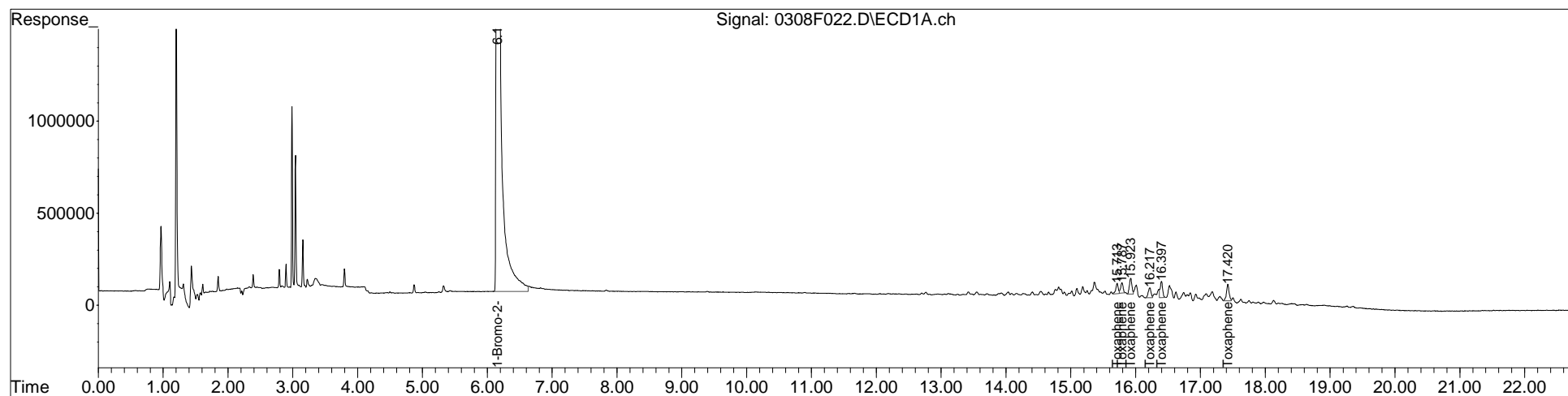
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 07:18 am
Sample : TOX 25 PPB GCPS9-18K @20X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:25:09 2023
Quant Results File: GC38-030823-8081.RES

Vial: 26
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F022.D

Vial: 26

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 07:18 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 25 PPB GCPS9-18K @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:45:31 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:45:20 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

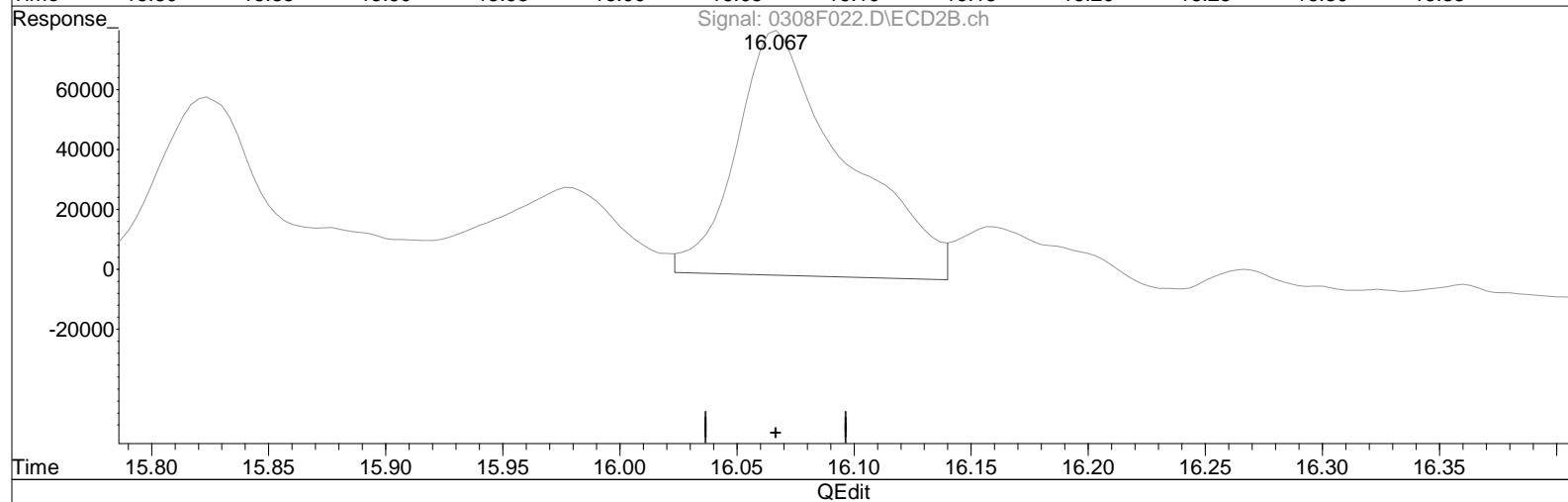
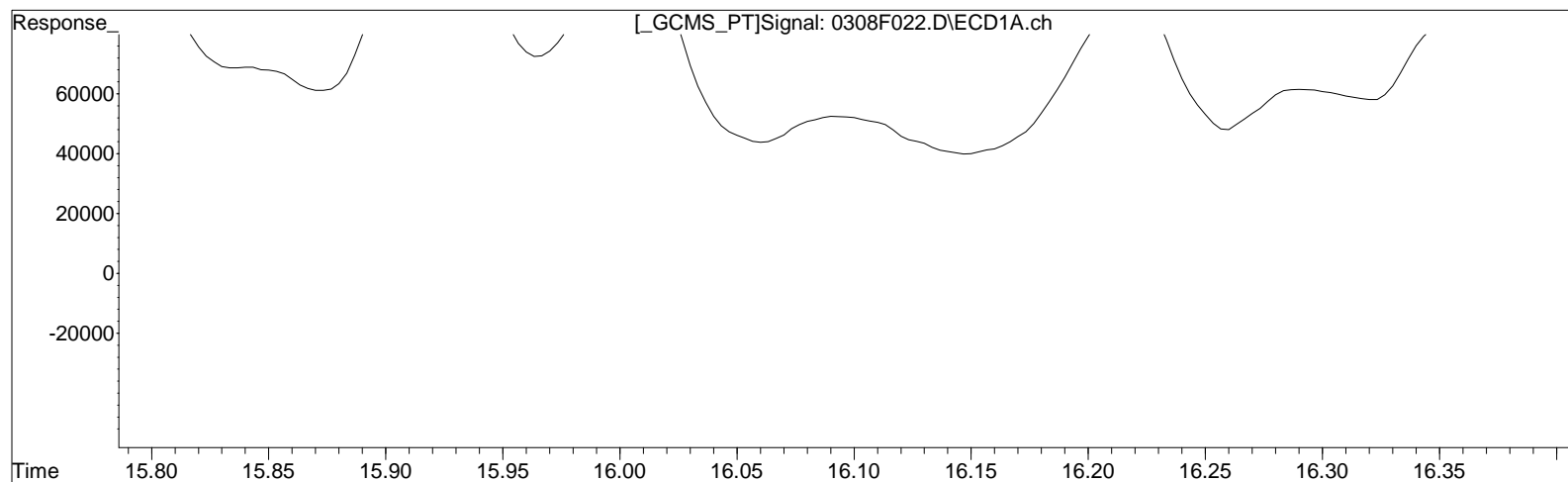
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(35) Toxaphene {6}

17.420min 27.139 ug/L

response 311557

Manual Integration:

Before

03/09/23

(35) Toxaphene {6} #2

16.067min 28.382 ug/L

response 266720

Data File : J:\GC38\DATA\030823ICAL\0308F022.D

Vial: 26

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 07:18 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 25 PPB GCPS9-18K @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:45:31 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:45:20 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

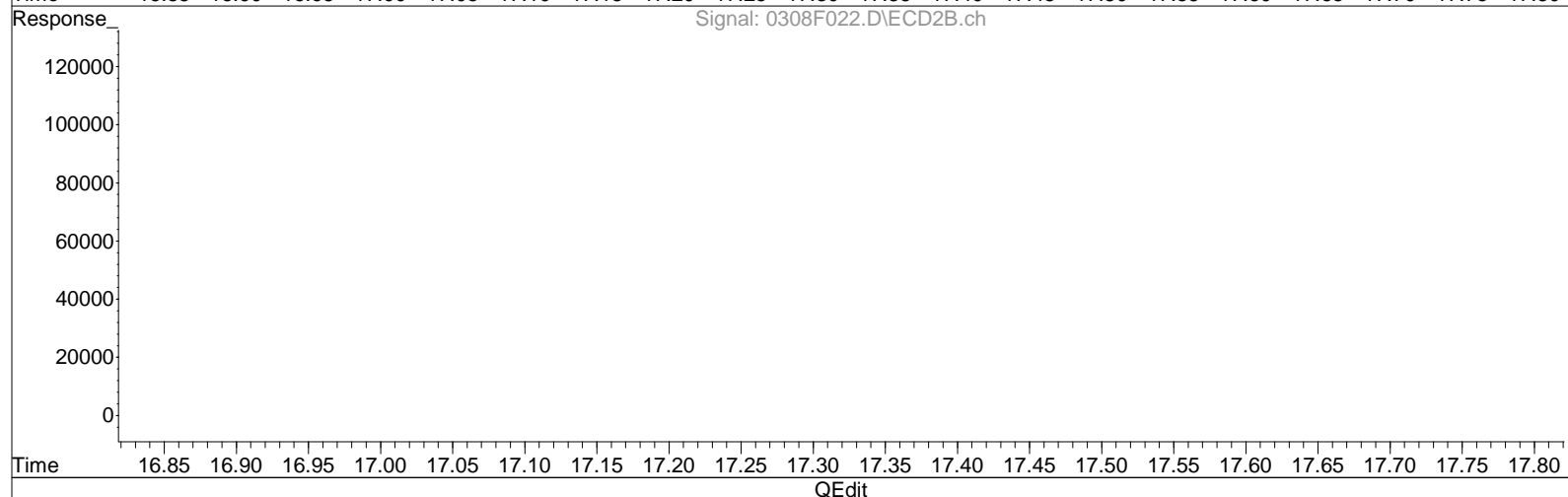
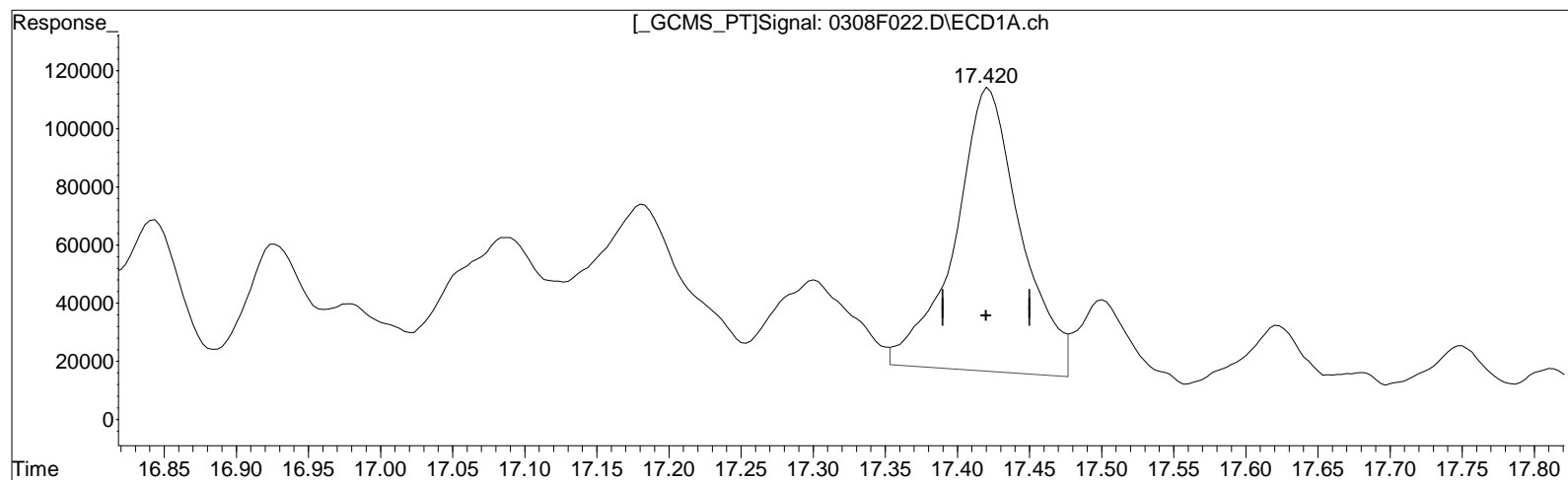
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(35) Toxaphene {6}

17.420min 27.139 ug/L

response 311557

Manual Integration:

Before

03/09/23

(35) Toxaphene {6} #2

16.067min 23.362 ug/L m

response 219551

(+) = Expected Retention Time

Data File : J:\GC38\DATA\030823ICAL\0308F022.D

Vial: 26

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 07:18 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 25 PPB GCPS9-18K @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:45:31 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:45:20 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

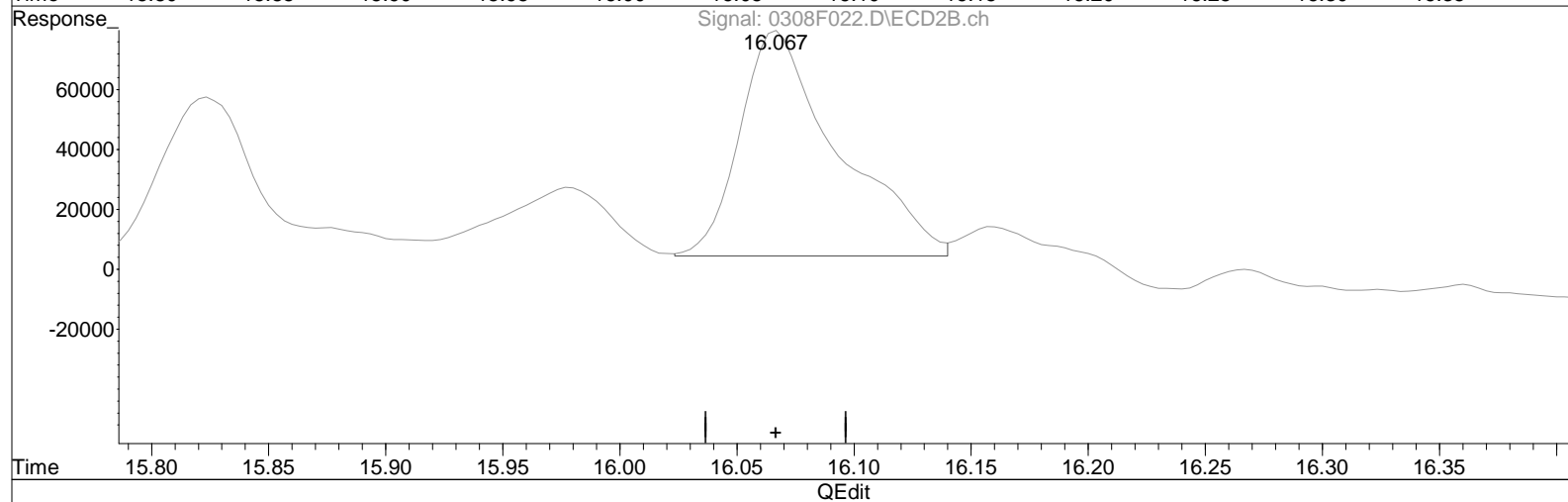
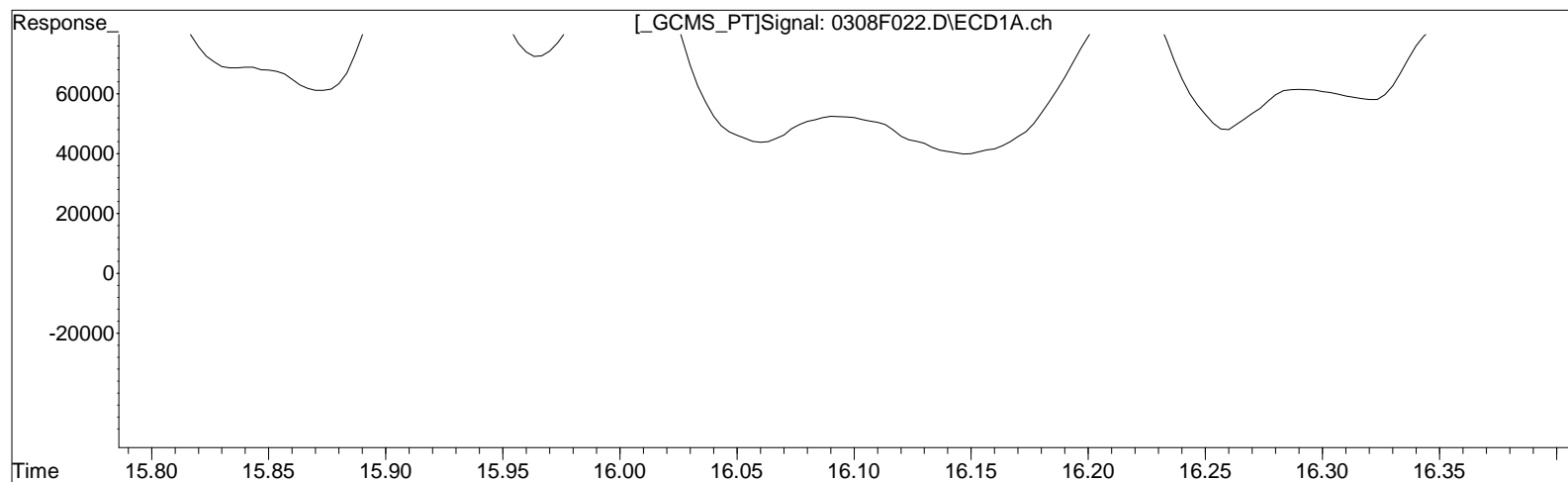
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(35) Toxaphene {6}

17.420min 27.139 ug/L

response 311557

Manual Integration:

After

Baseline Correction

03/09/23

(35) Toxaphene {6} #2

16.067min 23.362 ug/L m

response 219551

Data File : J:\GC38\DATA\030823ICAL\0308F022.D

Vial: 26

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 07:18 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 25 PPB GCPS9-18K @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:45:31 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:45:20 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

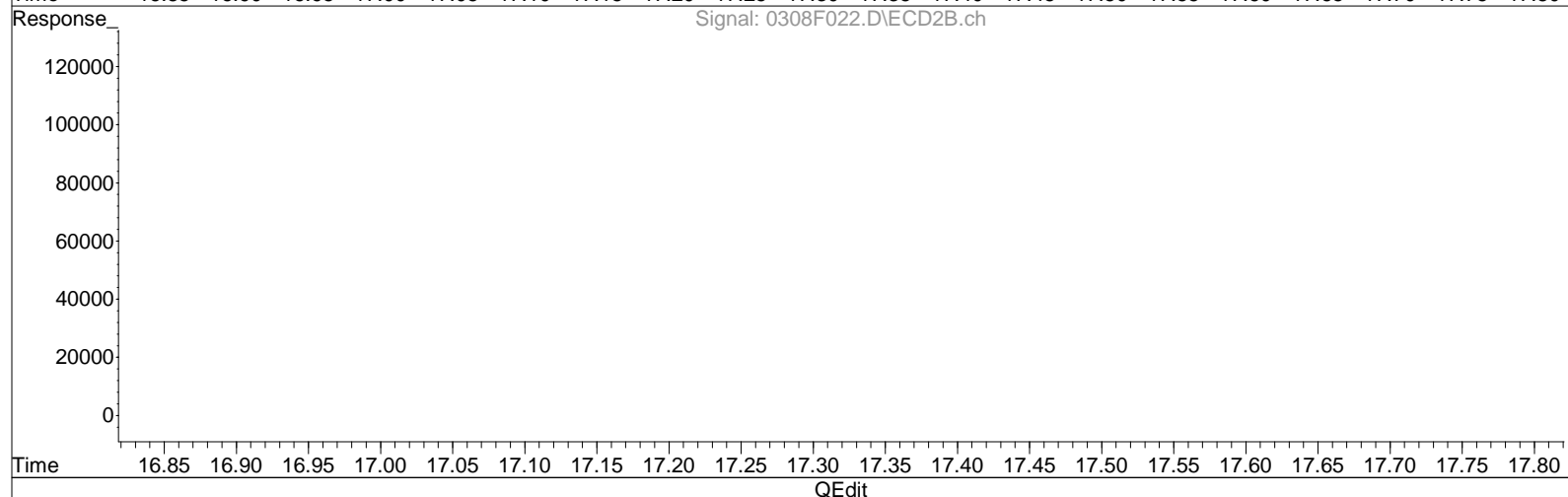
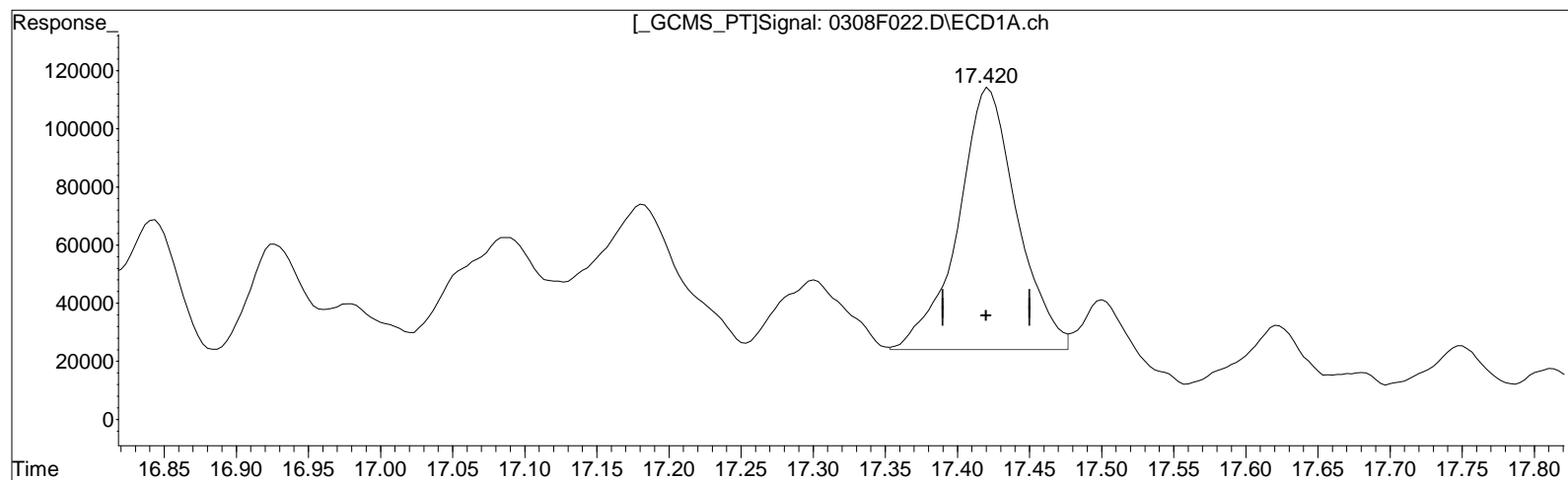
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(35) Toxaphene {6}

17.420min 22.487 ug/L m

response 258151

(35) Toxaphene {6} #2

16.067min 23.362 ug/L m

response 219551

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F023.D Vial: 27
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 08:03 am Operator: CORP\ALKLS.NoUser
 Sample : TOX 50 PPB GCPS9-18K @10X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:25:23 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	47471385	30716149	100.000	100.000
System Monitoring Compounds							
Target Compounds							
30)	Toxaphene	15.713	14.337	276525	331256	53.036m	51.558
31)	Toxaphene...	15.793	14.423	255837	246632	49.172m	49.353
32)	Toxaphene...	15.923	14.583	443918	297117	53.680	47.754
33)	Toxaphene...	16.217	14.963	313077	228318	51.344	49.704
34)	Toxaphene...	16.397	15.823	432489	353715	53.046	50.556
35)	Toxaphene...	17.420	16.067	545232	414688	52.753	48.392m

SemiQuant Compounds - Not Calibrated on this Instrument

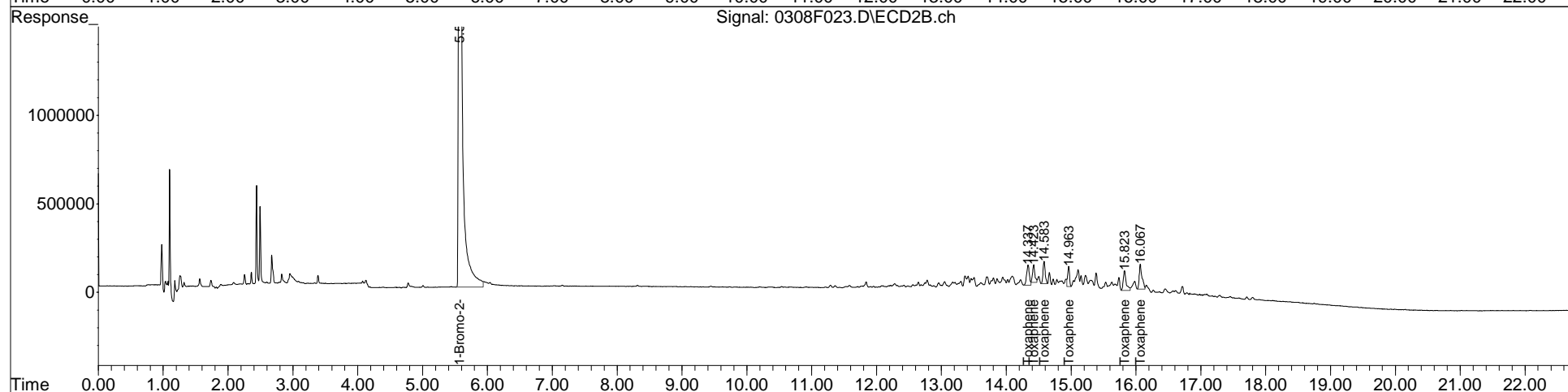
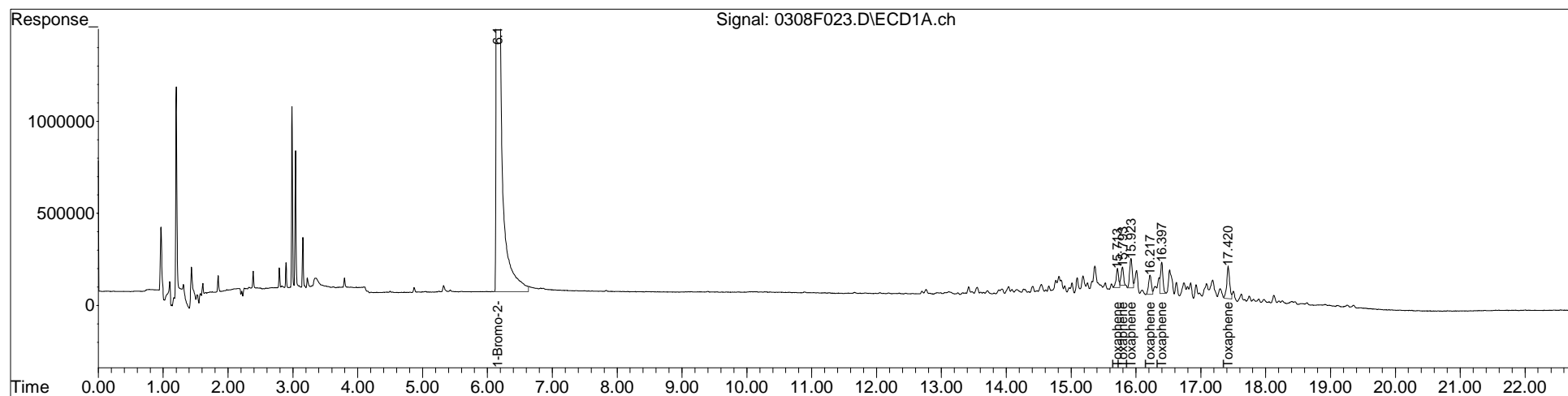
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 08:03 am
Sample : TOX 50 PPB GCPS9-18K @10X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:25:23 2023
Quant Results File: GC38-030823-8081.RES

Vial: 27
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F023.D

Vial: 27

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 08:03 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 50 PPB GCPS9-18K @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:46:56 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:46:46 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

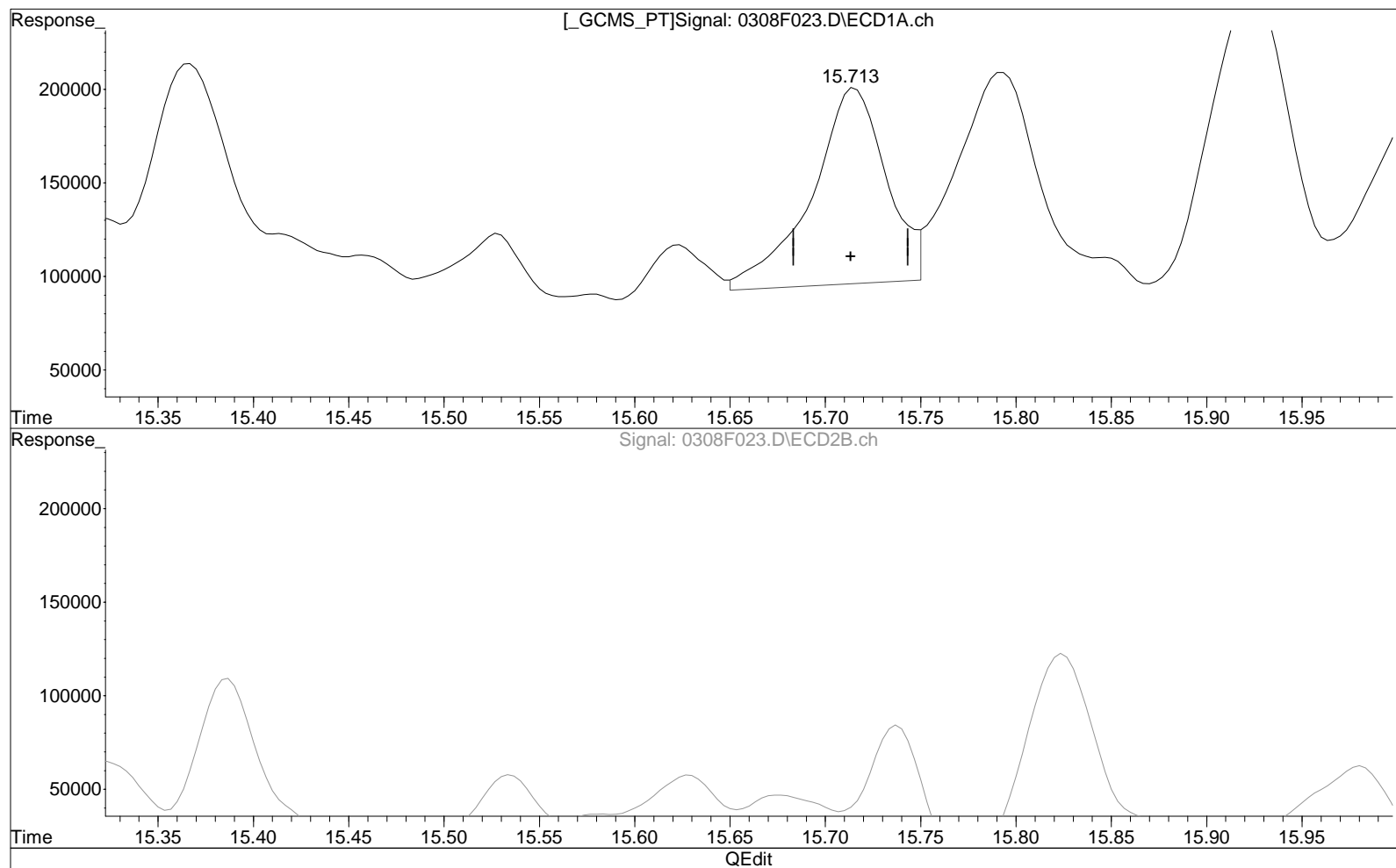
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(30) Toxaphene

15.713min 51.628 ug/L

response 287988

Manual Integration:

Before

03/09/23

(30) Toxaphene #2

14.337min 50.755 ug/L

response 331256

Data File : J:\GC38\DATA\030823ICAL\0308F023.D

Vial: 27

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 08:03 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 50 PPB GCPS9-18K @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:46:56 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:46:46 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

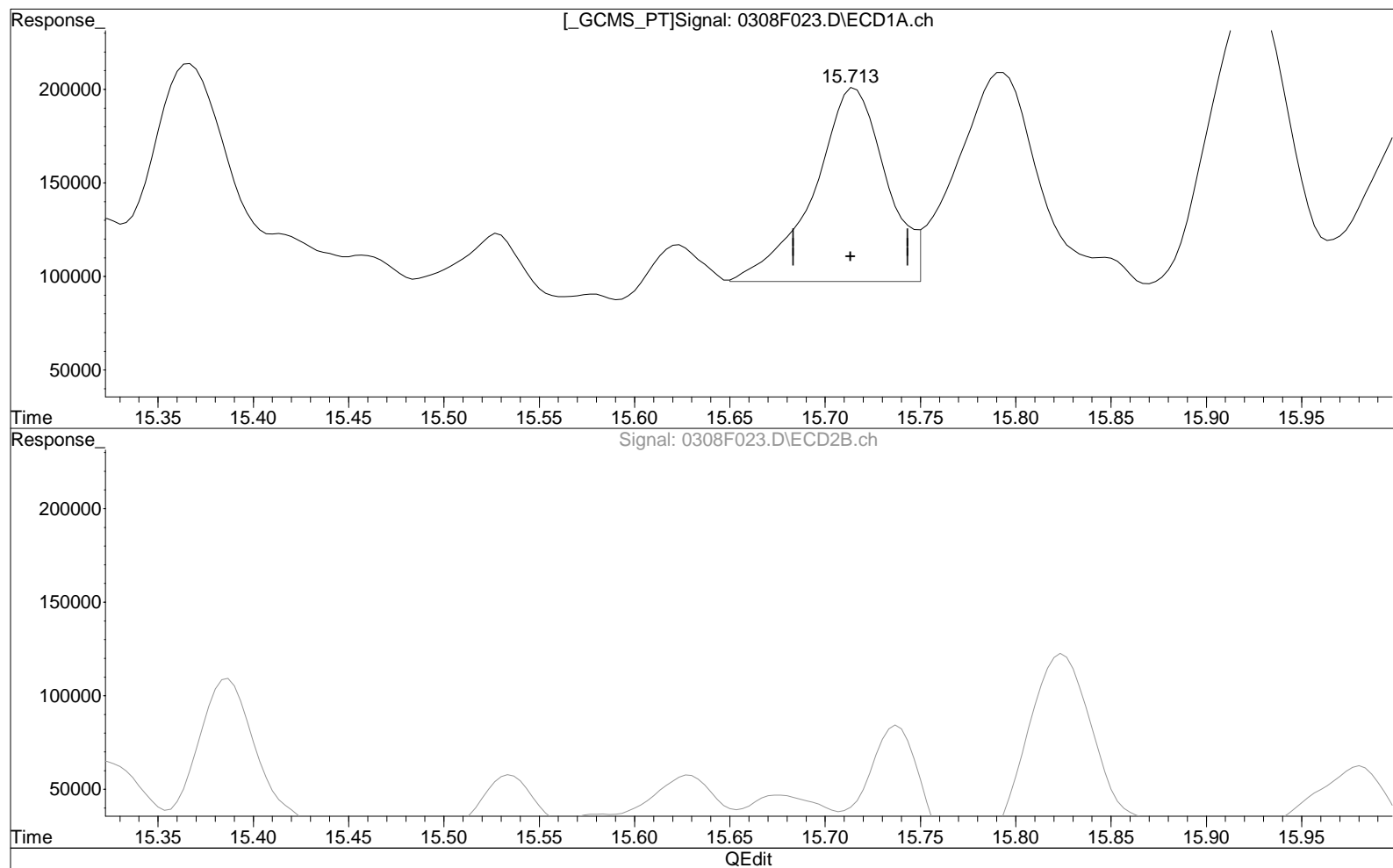
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(30) Toxaphene

15.713min 49.573 ug/L m

response 276525

(30) Toxaphene #2

14.337min 50.755 ug/L

response 331256

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F023.D

Vial: 27

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 08:03 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 50 PPB GCPS9-18K @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:46:56 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:46:46 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

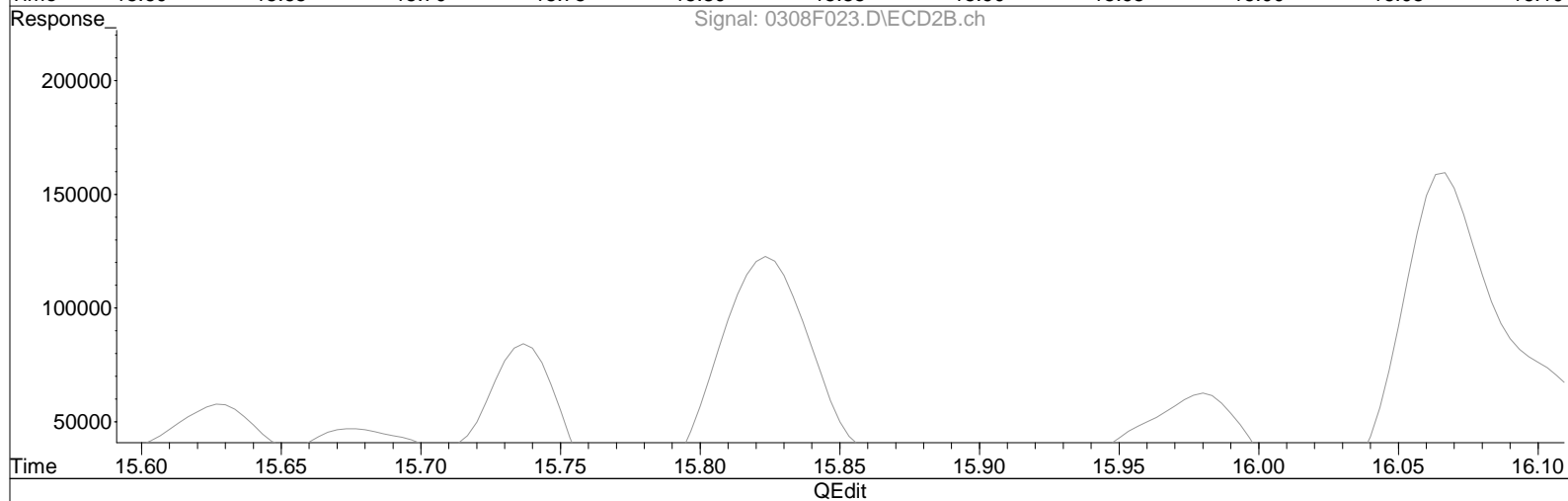
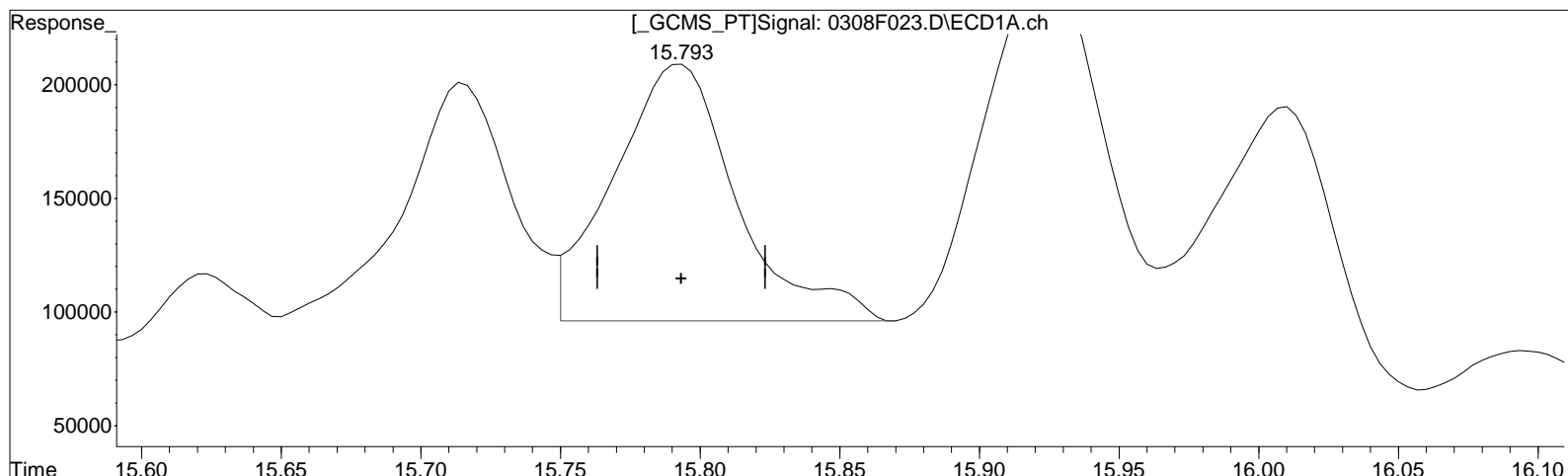
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(31) Toxaphene {2}

15.793min 61.631 ug/L

response 343784

Manual Integration:

Before

03/09/23

(31) Toxaphene {2} #2

14.423min 46.654 ug/L

response 246632

Data File : J:\GC38\DATA\030823ICAL\0308F023.D

Vial: 27

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 08:03 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 50 PPB GCPS9-18K @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:46:56 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:46:46 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

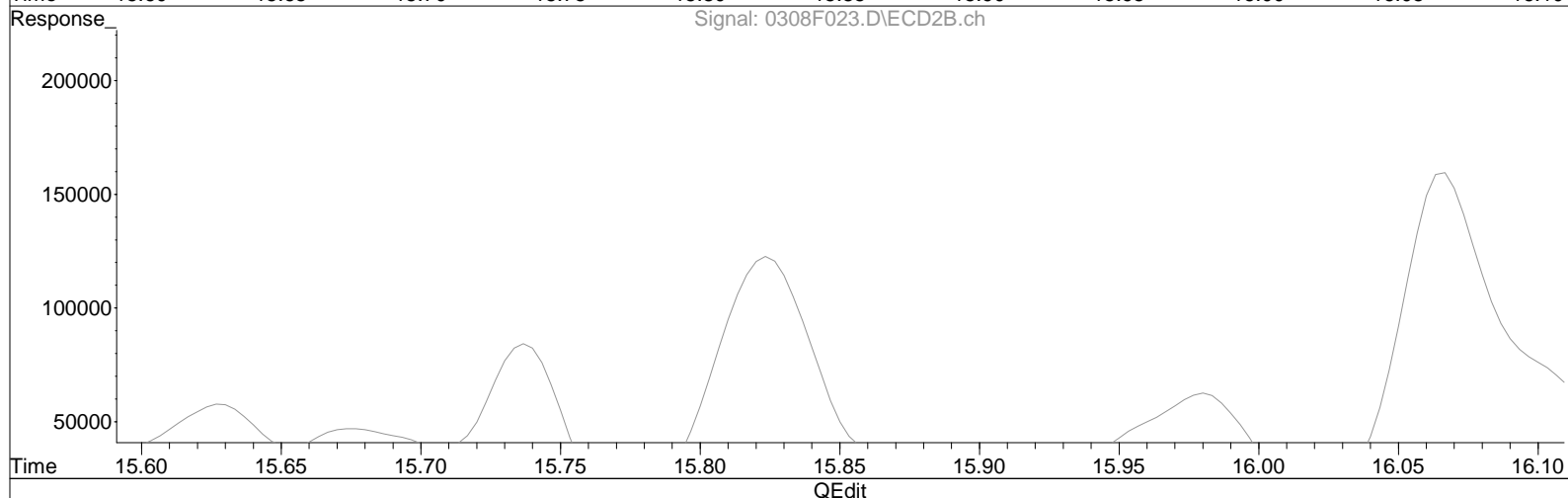
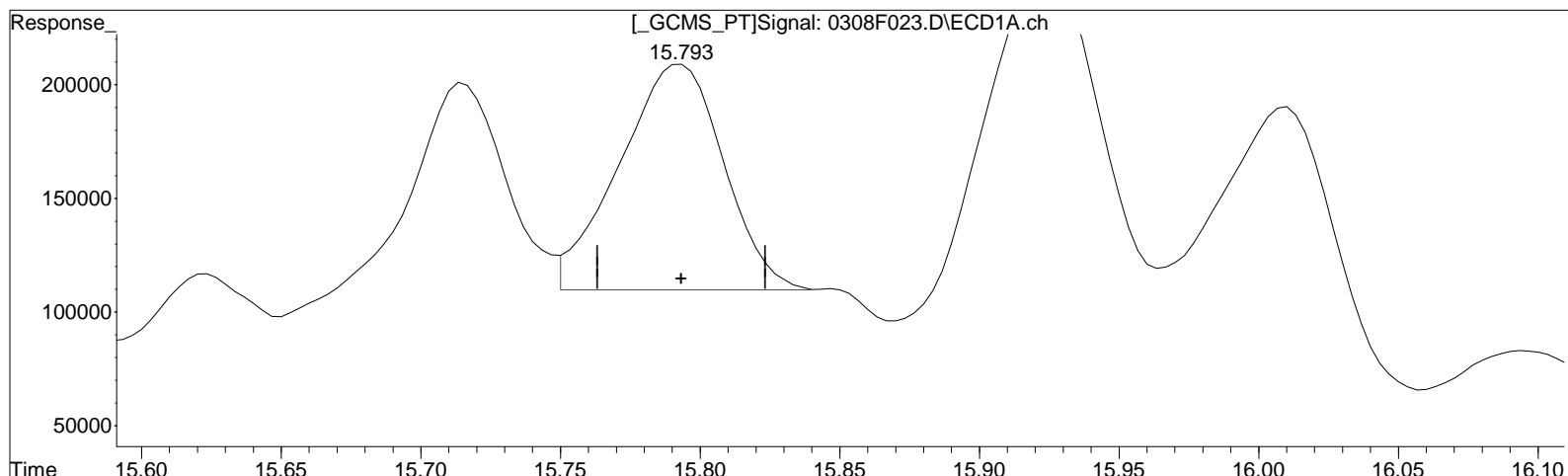
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(31) Toxaphene {2}

15.793min 47.181 ug/L m

response 255837

(31) Toxaphene {2} #2

14.423min 46.654 ug/L

response 246632

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F023.D

Vial: 27

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 08:03 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 50 PPB GCPS9-18K @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:46:56 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:46:46 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

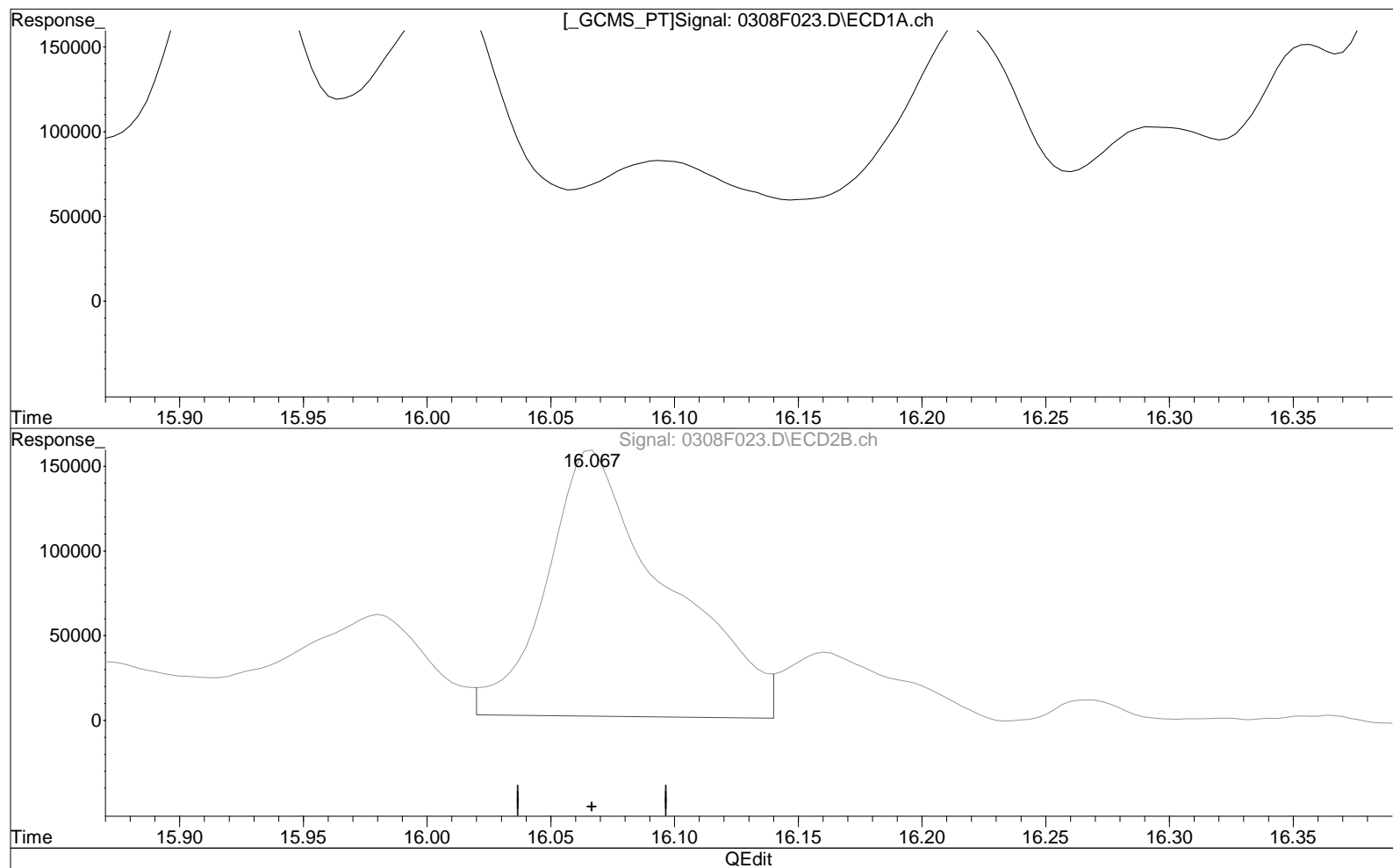
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(35) Toxaphene {6}

17.420min 50.261 ug/L

response 545232

Manual Integration:

Before

03/09/23

(35) Toxaphene {6} #2

16.067min 60.352 ug/L

response 534608

Data File : J:\GC38\DATA\030823ICAL\0308F023.D

Vial: 27

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 08:03 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 50 PPB GCPS9-18K @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:46:56 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:46:46 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

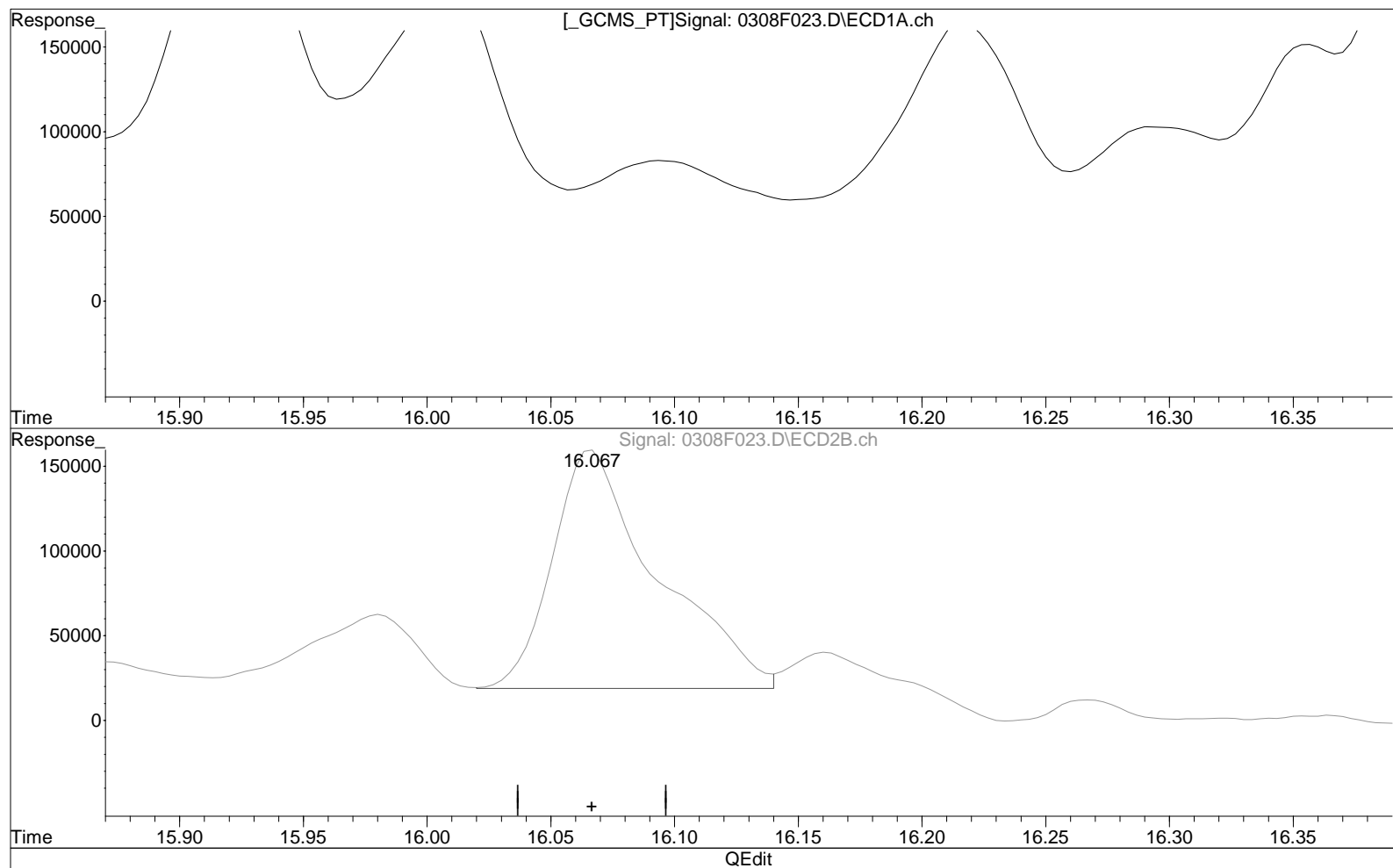
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(35) Toxaphene {6}

17.420min 50.261 ug/L

response 545232

Manual Integration:

After

Baseline Correction

03/09/23

(35) Toxaphene {6} #2

16.067min 46.814 ug/L m

response 414688

Data File : J:\GC38\DATA\030823ICAL\0308F024.D Vial: 28
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 08:47 am Operator: CORP\ALKLS.NoUser
 Sample : TOX 100 PPB GCPS9-18K @5X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:25:36 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	47800138	30761229	100.000	100.000
System Monitoring Compounds							
Target Compounds							
30)	Toxaphene	15.713	14.333	548110	642100	104.402m	99.793
31)	Toxaphene...	15.793	14.423	637163	492384	121.620m	98.386m
32)	Toxaphene...	15.923	14.583	867431	613824	104.171m	98.513
33)	Toxaphene...	16.220	14.963	648683	441259	105.651	95.919
34)	Toxaphene...	16.397	15.823	816246	701851	99.426m	100.168
35)	Toxaphene...	17.420	16.067	1211147	988098	116.376	115.137

SemiQuant Compounds - Not Calibrated on this Instrument

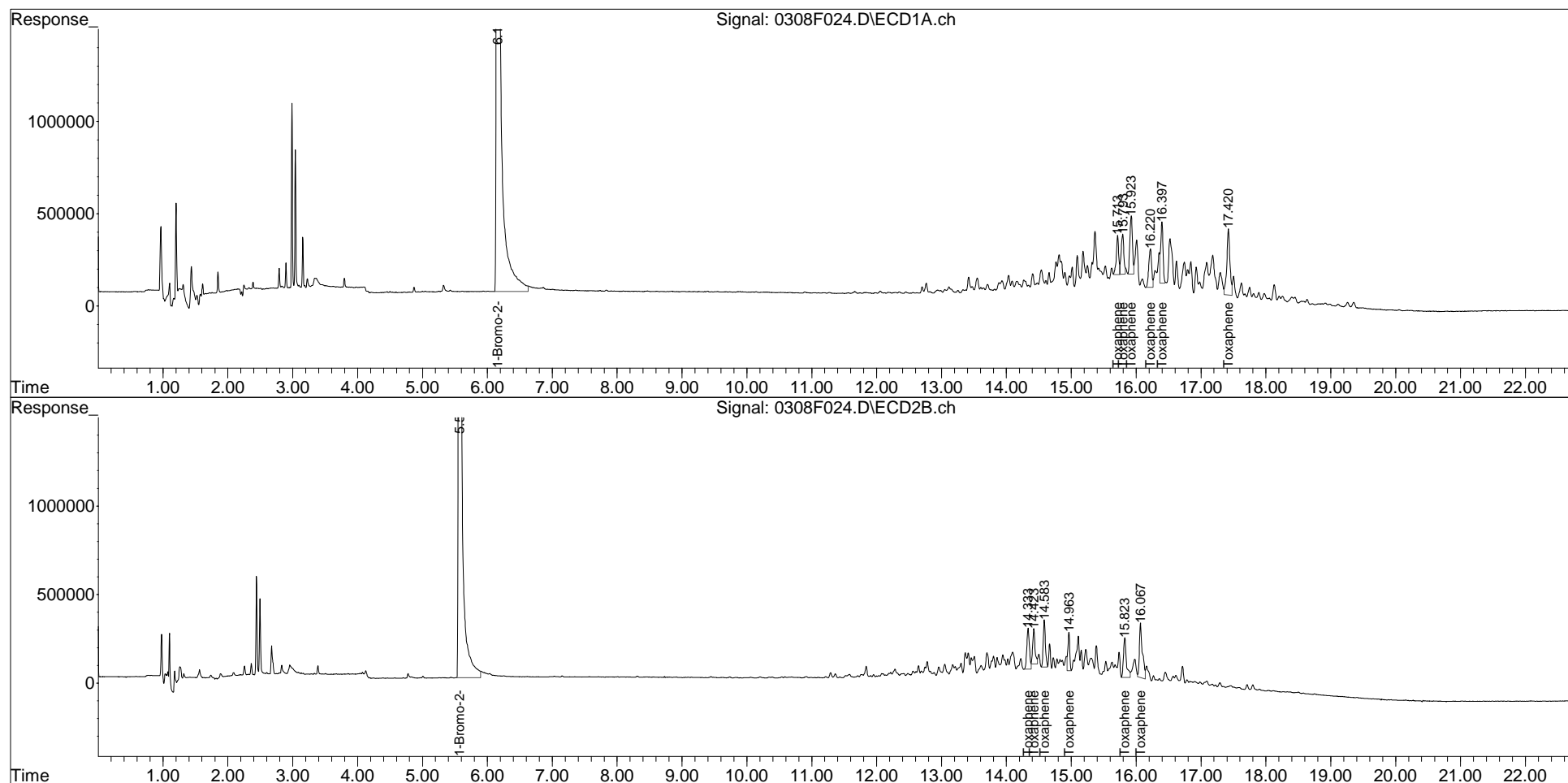
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 08:47 am
Sample : TOX 100 PPB GCPS9-18K @5X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:25:36 2023
Quant Results File: GC38-030823-8081.RES

Vial: 28
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F025.D Vial: 29
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 09:32 am Operator: CORP\ALKLS.NoUser
Sample : TOX 250 PPB GCPS9-18K @2X Inst : GC38
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:25:49 2023
Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.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...	6.157	5.570	48256303	31249597	100.000	100.000
System Monitoring Compounds							
Target Compounds							
30)	Toxaphene	15.713	14.333	1223963	1584585	230.931m	242.423
31)	Toxaphene...	15.793	14.420	1105684	1191168	209.056m	234.294m
32)	Toxaphene...	15.923	14.583	2019030	1579608	240.176m	249.550m
33)	Toxaphene...	16.220	14.963	1466865	1227326	236.650	262.622
34)	Toxaphene...	16.397	15.823	1893291	1739306	228.439	244.353
35)	Toxaphene...	17.420	16.067	2364854	2125671	225.085m	243.821m

SemiQuant Compounds - Not Calibrated on this Instrument

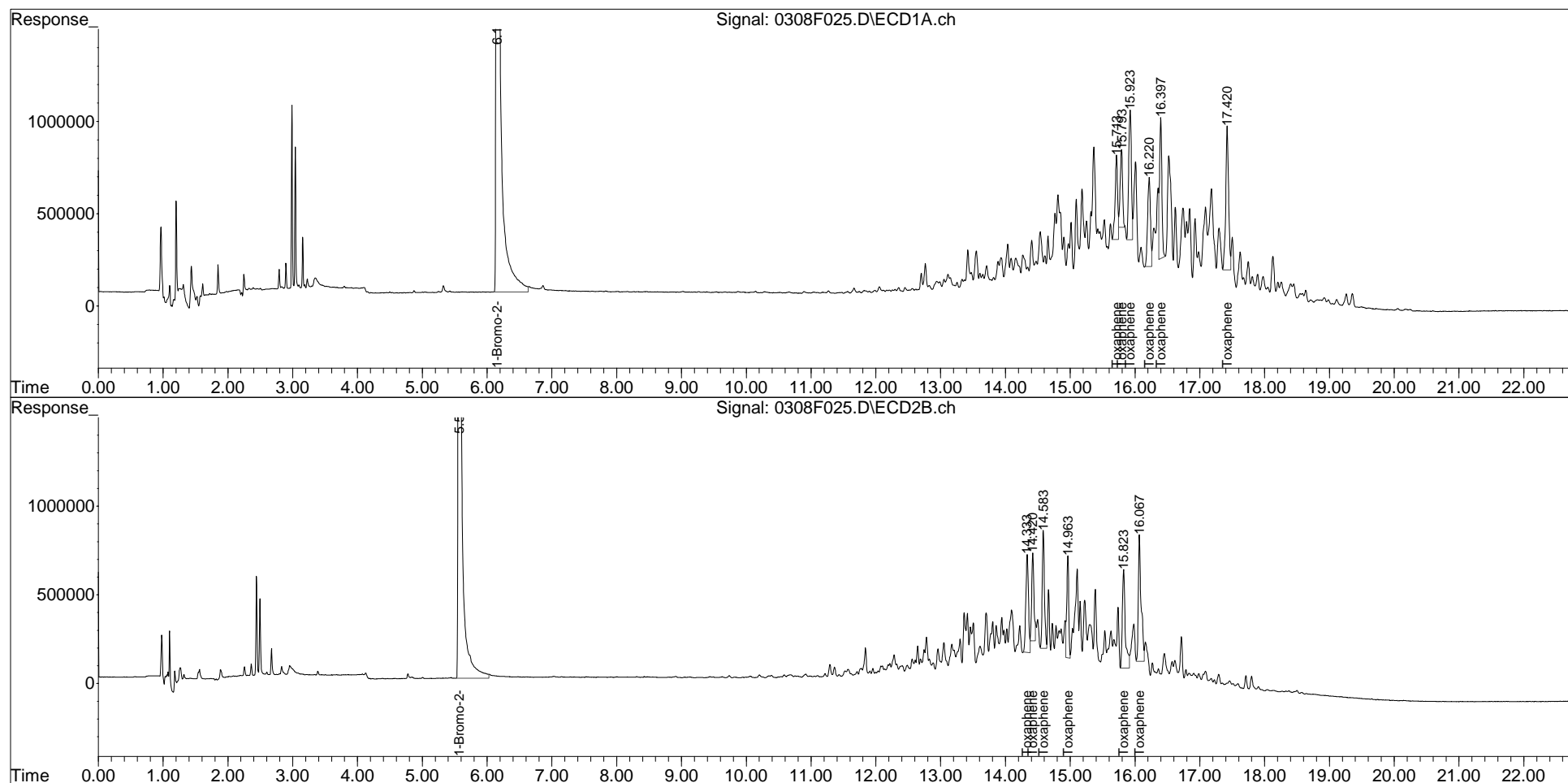
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 09:32 am
Sample : TOX 250 PPB GCPS9-18K @2X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:25:49 2023
Quant Results File: GC38-030823-8081.RES

Vial: 29
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

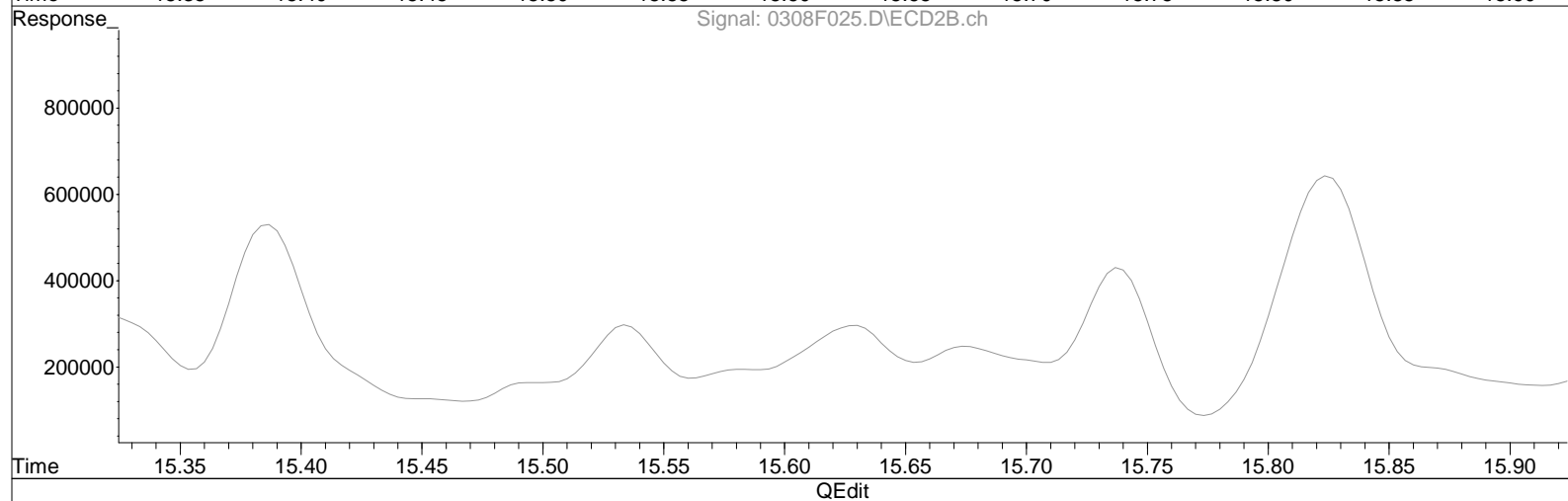
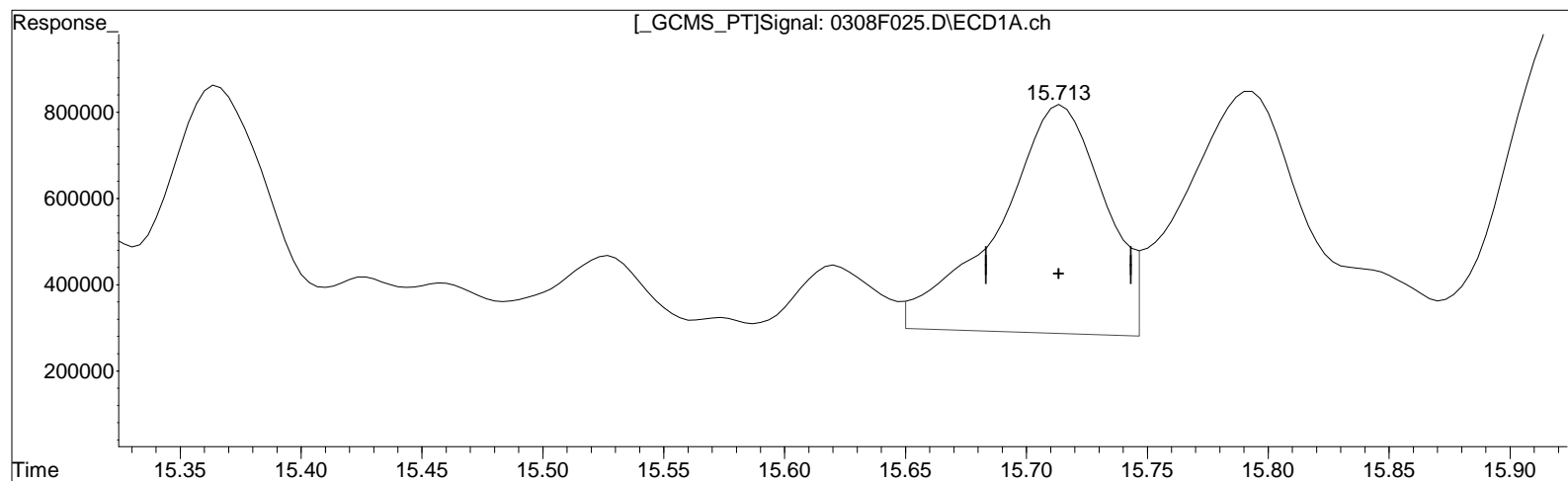
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(30) Toxaphene

15.713min 288.843 ug/L

response 1634357

Manual Integration:

Before

03/09/23

(30) Toxaphene #2

14.333min 237.749 ug/L

response 1584585

(+) = Expected Retention Time

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

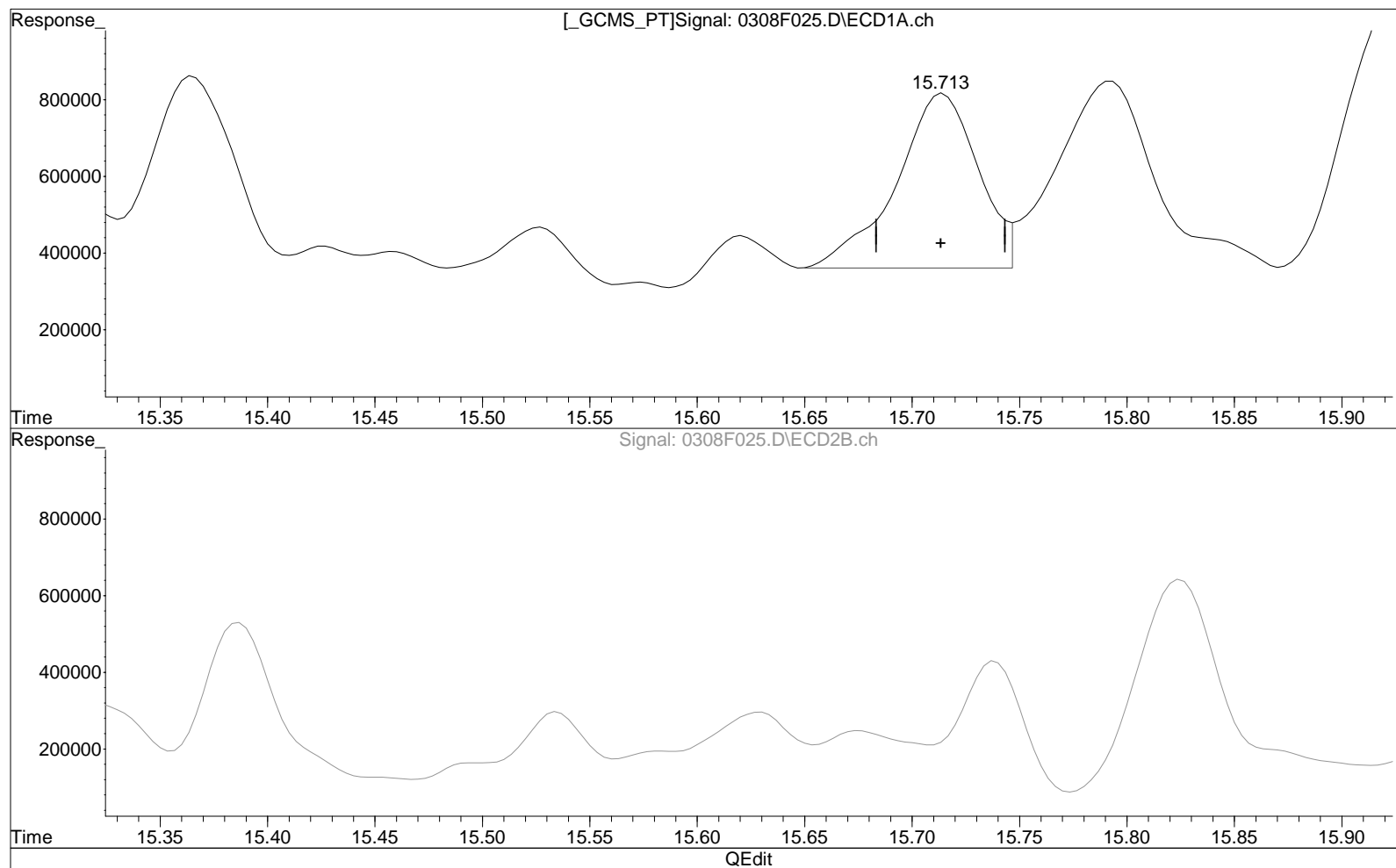
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(30) Toxaphene

15.713min 216.313 ug/L m

response 1223963

(30) Toxaphene #2

14.333min 237.749 ug/L

response 1584585

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

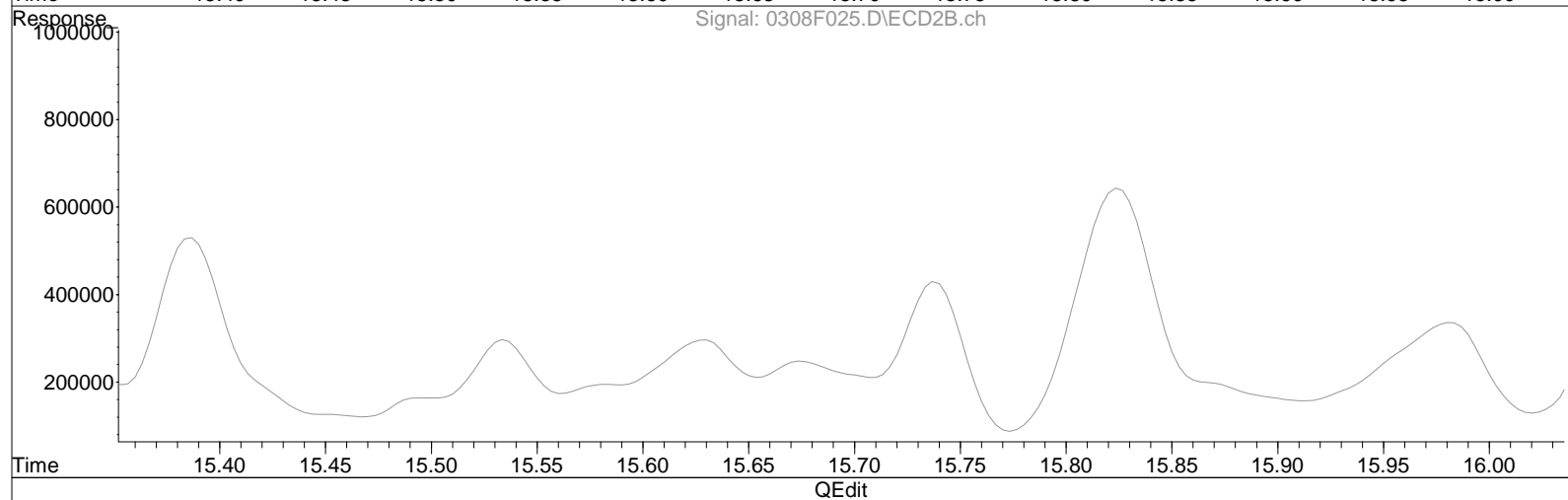
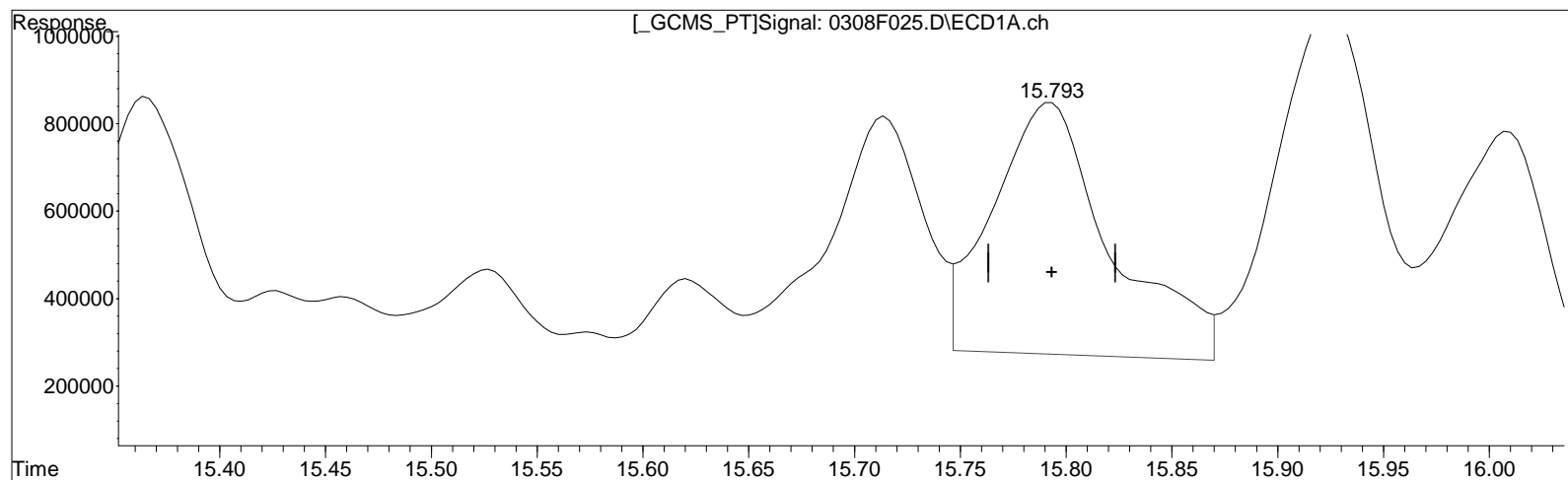
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(31) Toxaphene {2}

15.793min 239.277 ug/L

response 2220001

Manual Integration:

Before

03/09/23

(31) Toxaphene {2} #2

14.420min 318.660 ug/L

response 1685143

(+) = Expected Retention Time

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

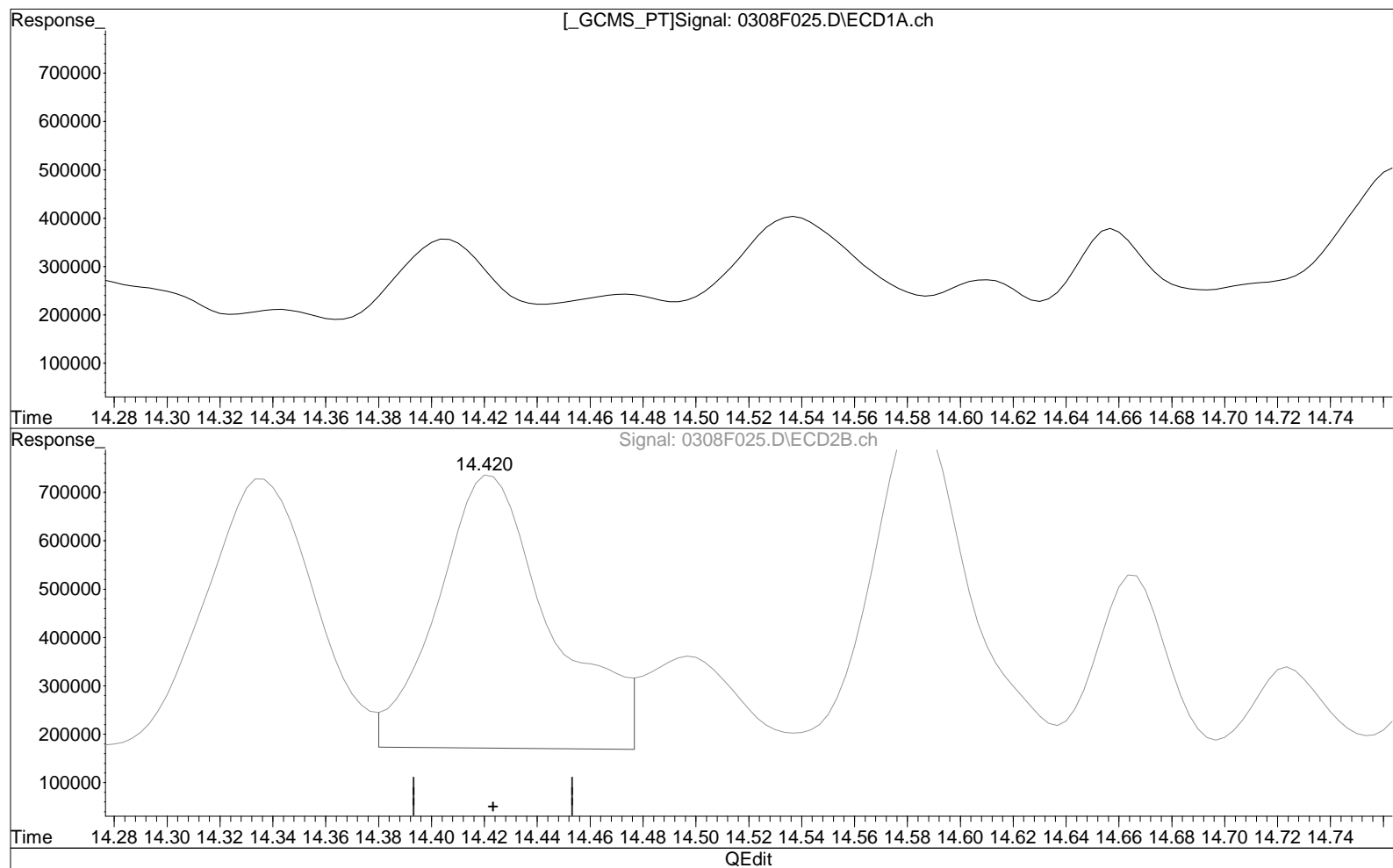
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(31) Toxaphene {2}

15.793min 149.521 ug/L m

response 1105684

Manual Integration:

Before

03/09/23

(31) Toxaphene {2} #2

14.420min 318.660 ug/L

response 1685143

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

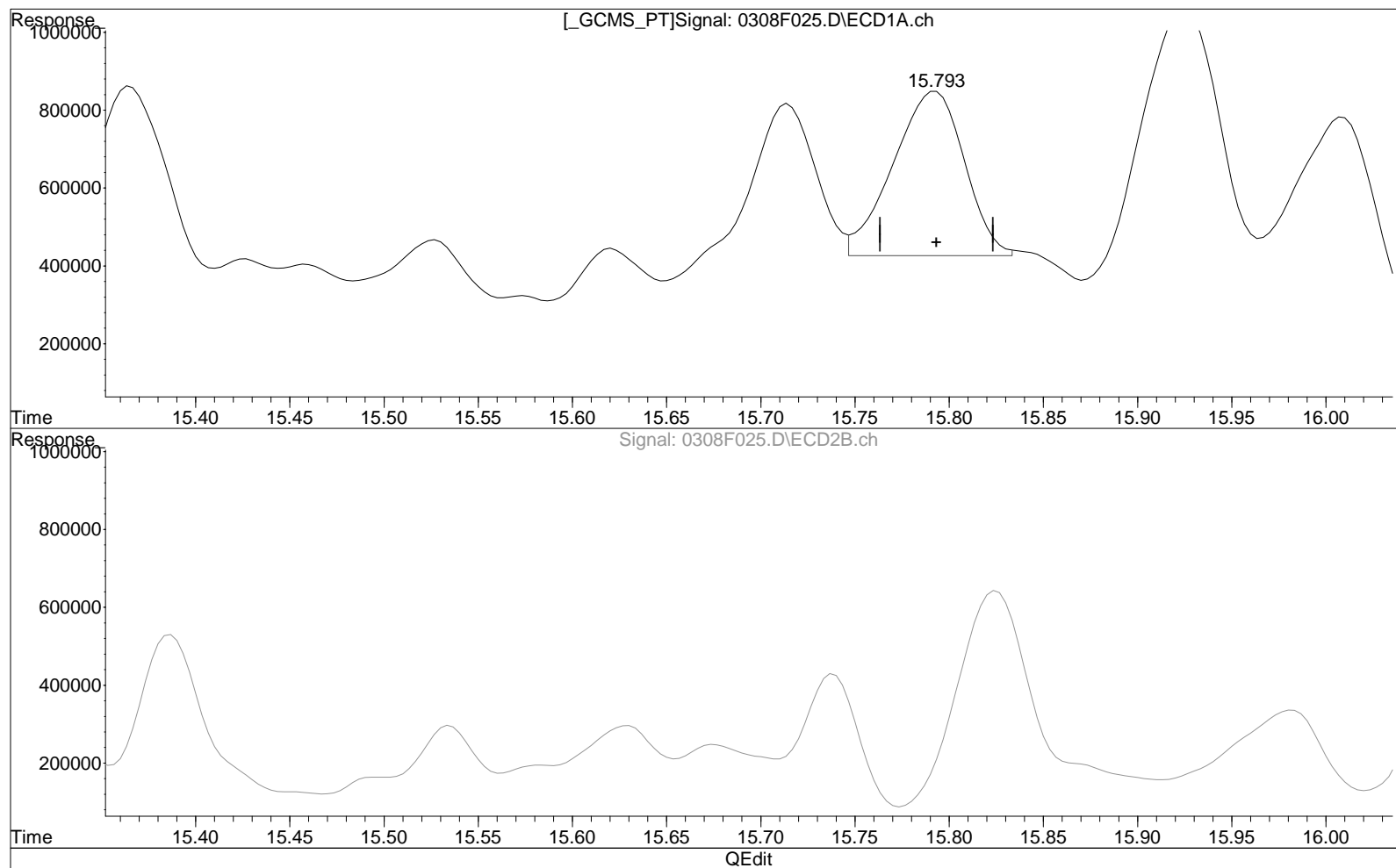
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(31) Toxaphene {2}

15.793min 149.521 ug/L m

response 1105684

(31) Toxaphene {2} #2

14.420min 318.660 ug/L

response 1685143

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

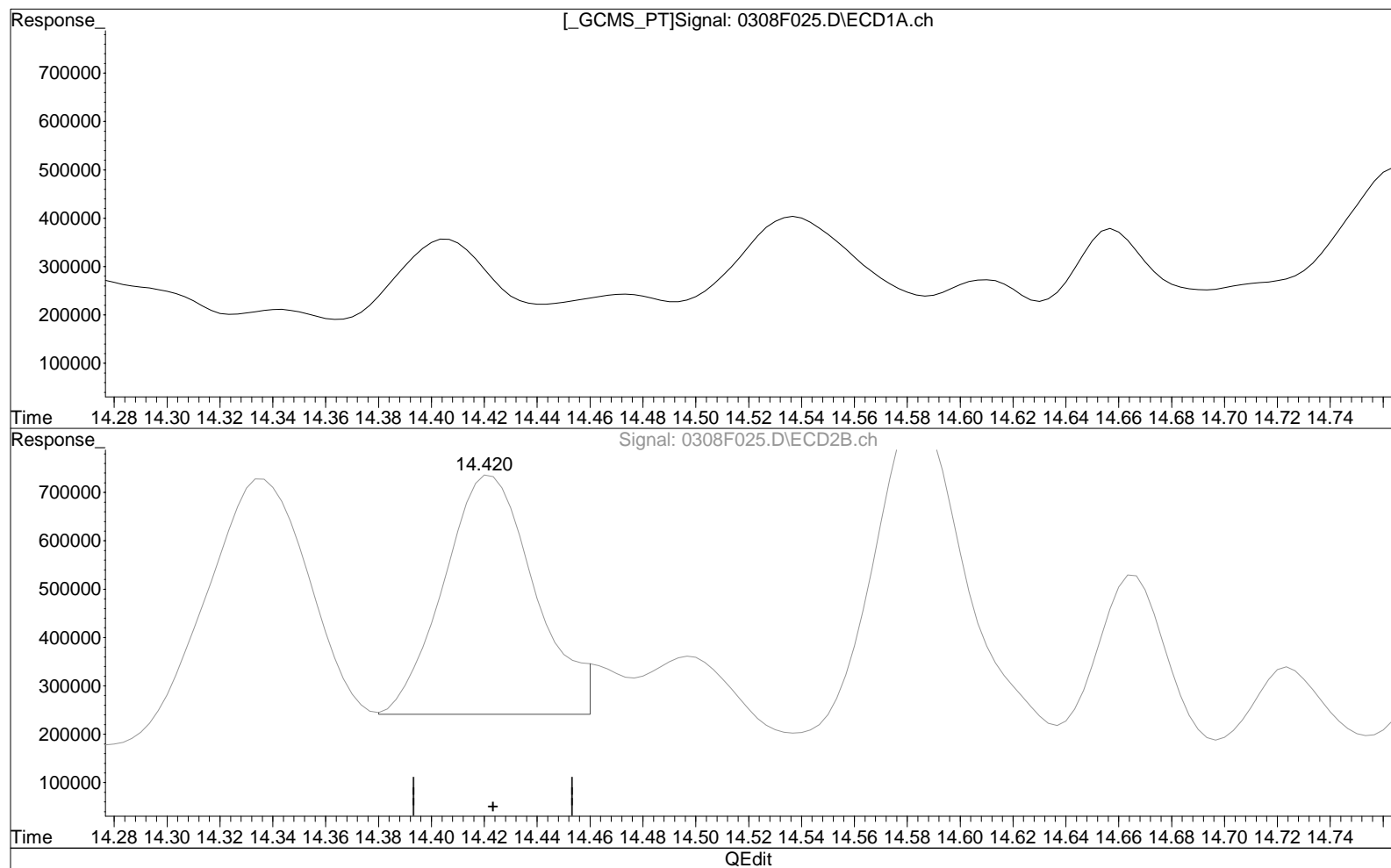
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(31) Toxaphene {2}

15.793min 149.521 ug/L m

response 1105684

Manual Integration:

After

Baseline Correction

03/09/23

(31) Toxaphene {2} #2

14.420min 225.249 ug/L m

response 1191168

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

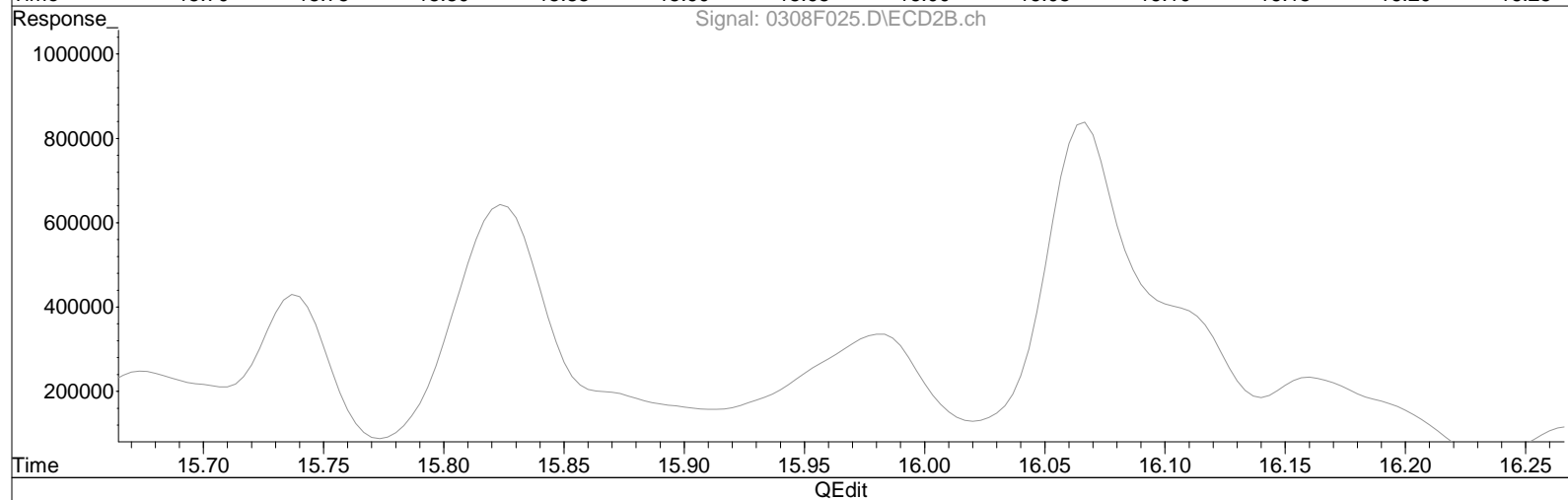
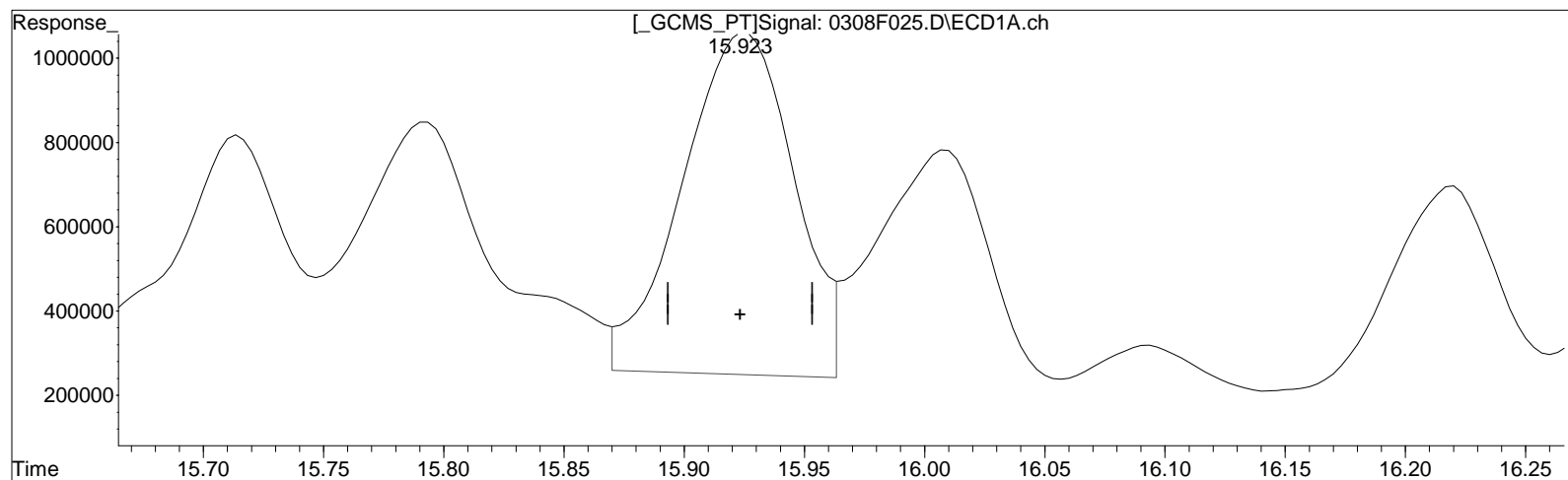
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(32) Toxaphene {3}

15.923min 298.096 ug/L

response 2630043

Manual Integration:

Before

03/09/23

(32) Toxaphene {3} #2

14.583min 283.170 ug/L

response 1794153

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

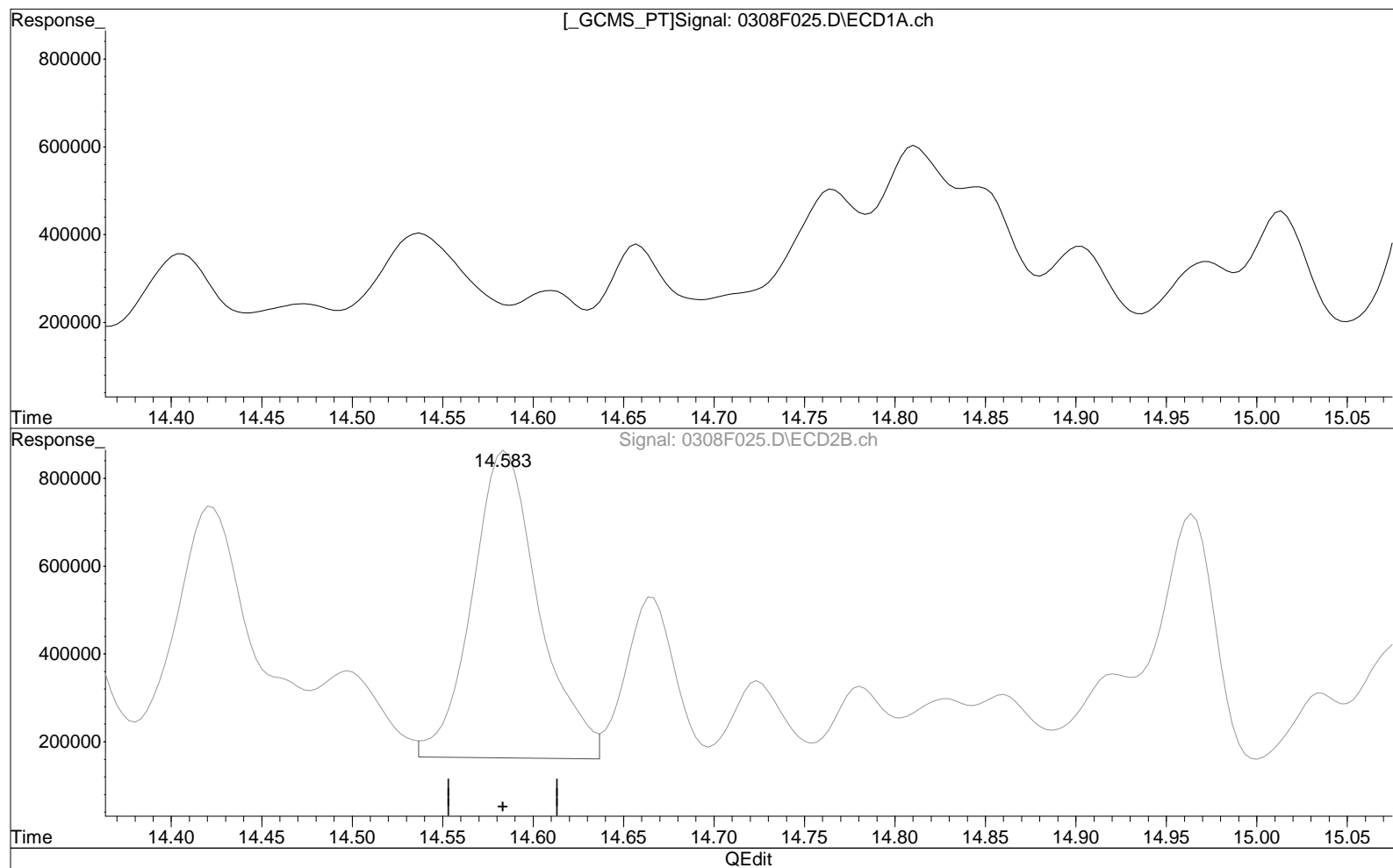
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(32) Toxaphene {3}

15.923min 228.842 ug/L m

response 2019030

Manual Integration:

Before

03/09/23

(32) Toxaphene {3} #2

14.583min 283.170 ug/L

response 1794153

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

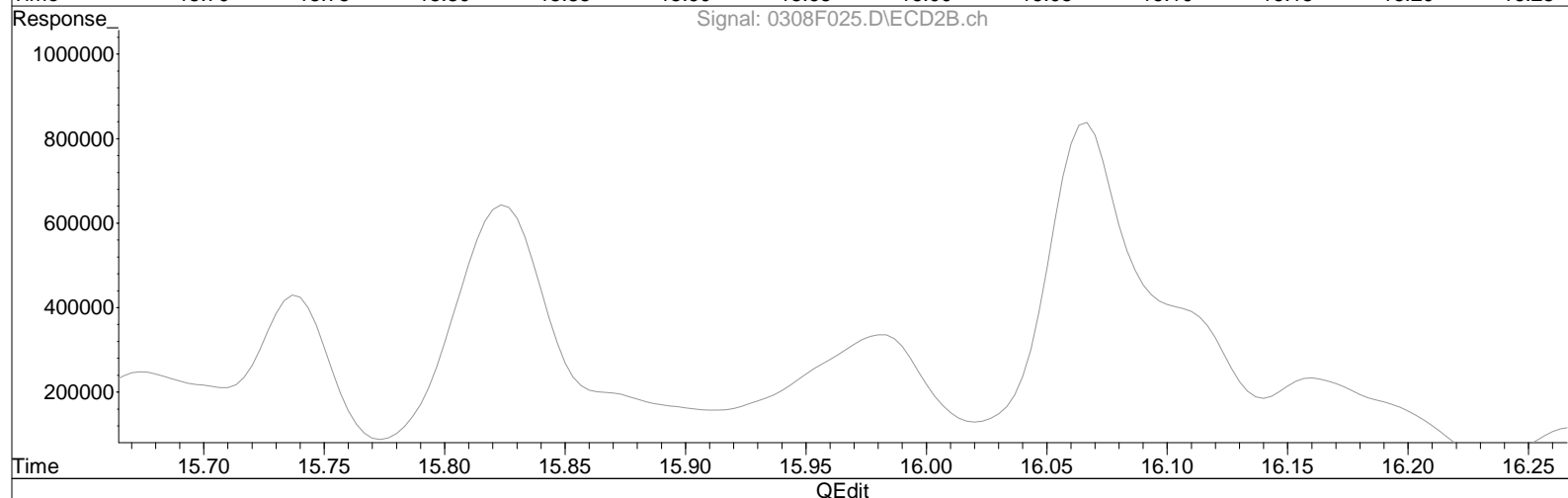
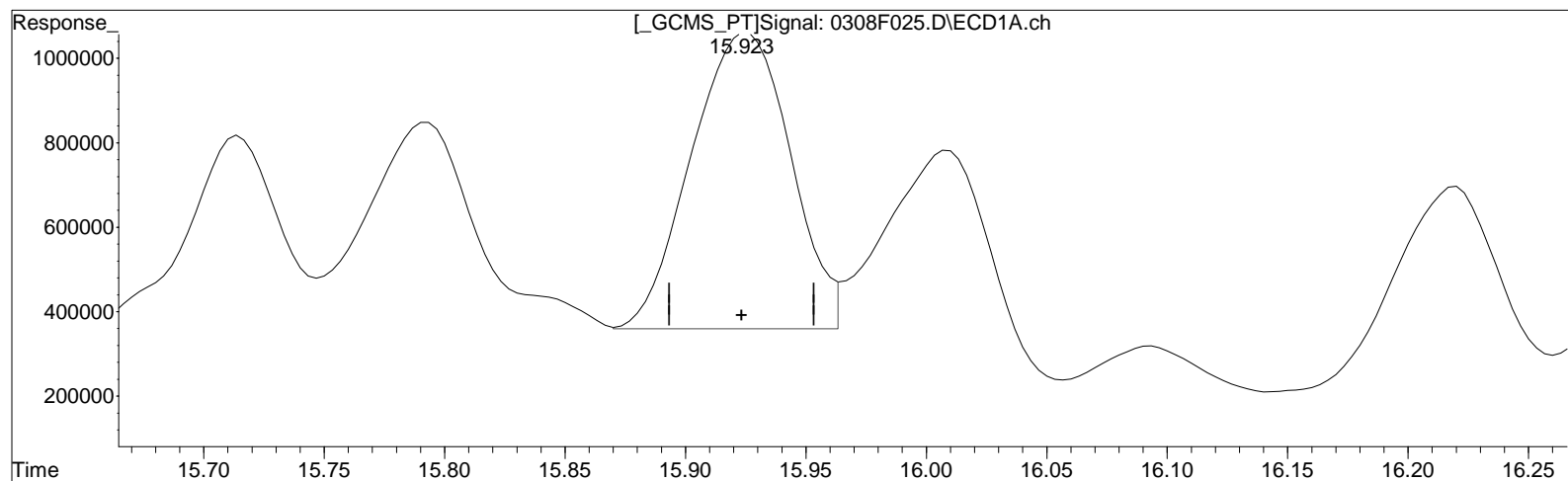
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(32) Toxaphene {3}

15.923min 228.842 ug/L m

response 2019030

(32) Toxaphene {3} #2

14.583min 283.170 ug/L

response 1794153

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

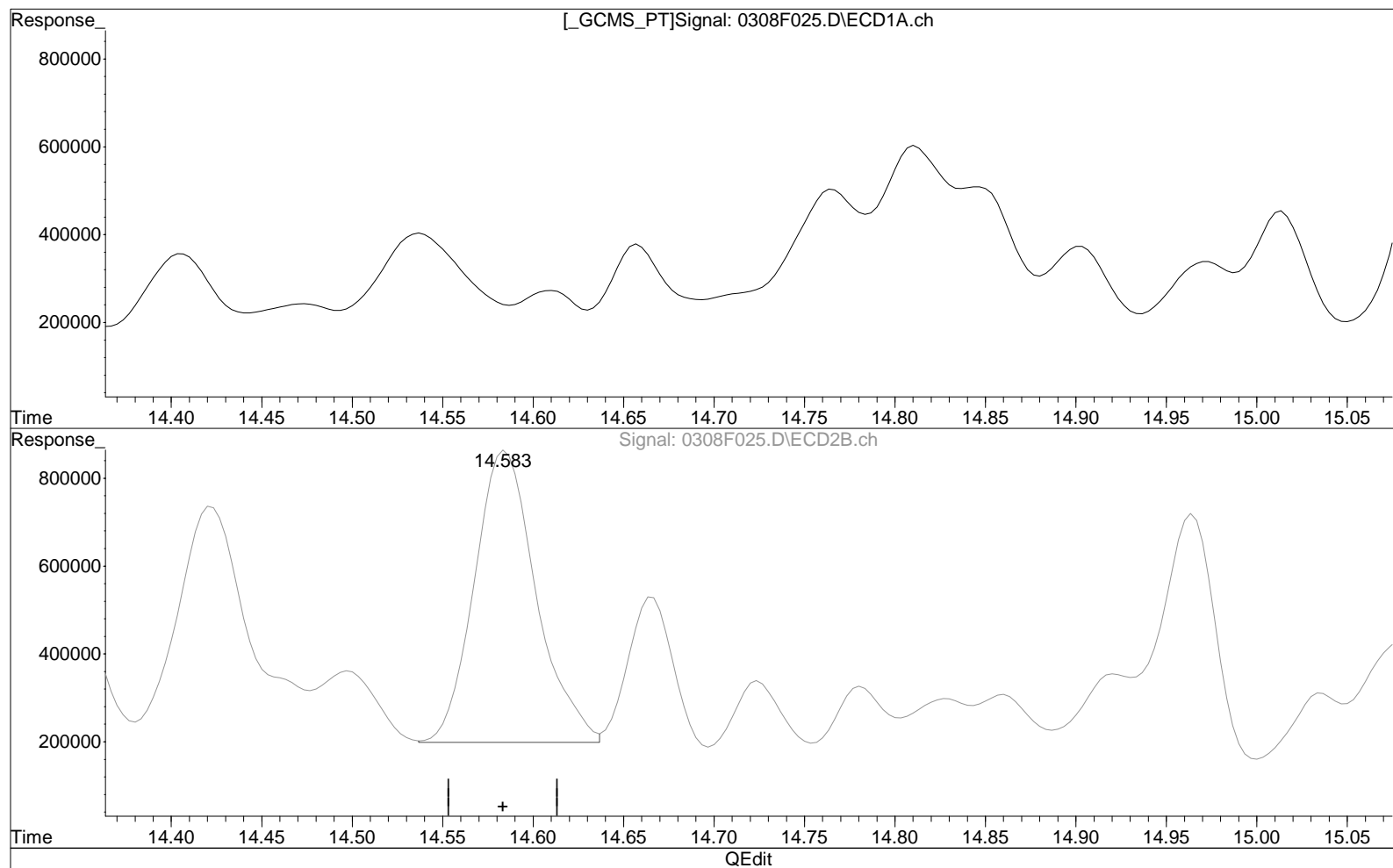
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(32) Toxaphene {3}

15.923min 228.842 ug/L m

response 2019030

(32) Toxaphene {3} #2

14.583min 249.309 ug/L m

response 1579608

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

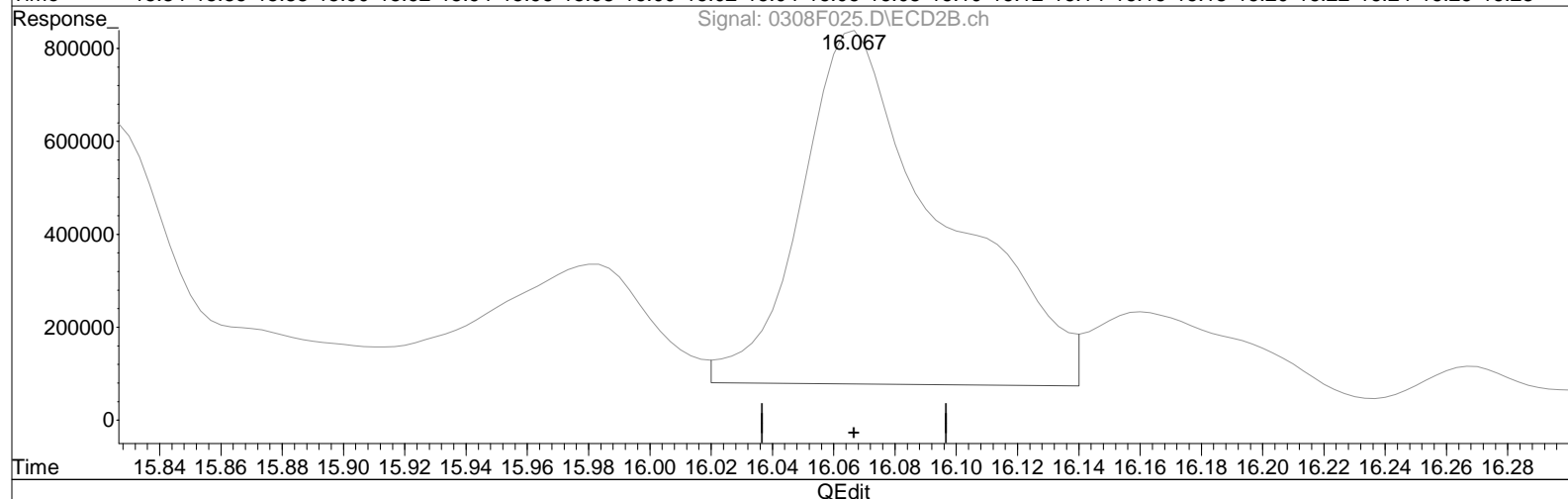
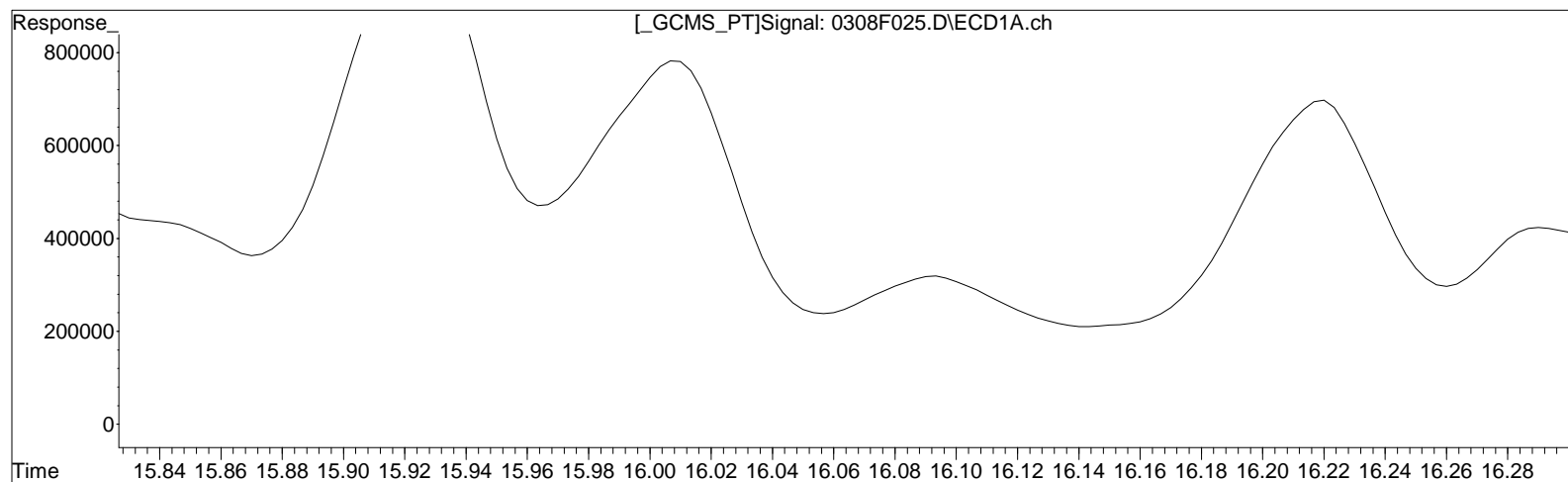
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(35) Toxaphene {6}

17.420min 242.244 ug/L

response 2674785

Manual Integration:

Before

03/09/23

(35) Toxaphene {6} #2

16.067min 278.042 ug/L

response 2465813

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

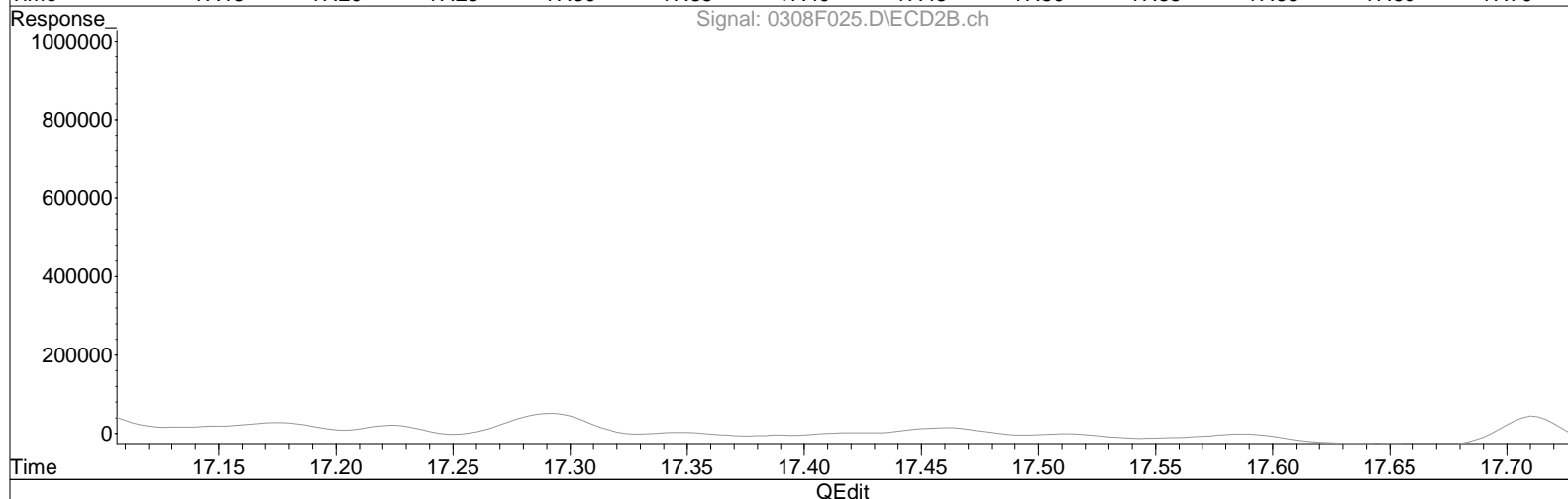
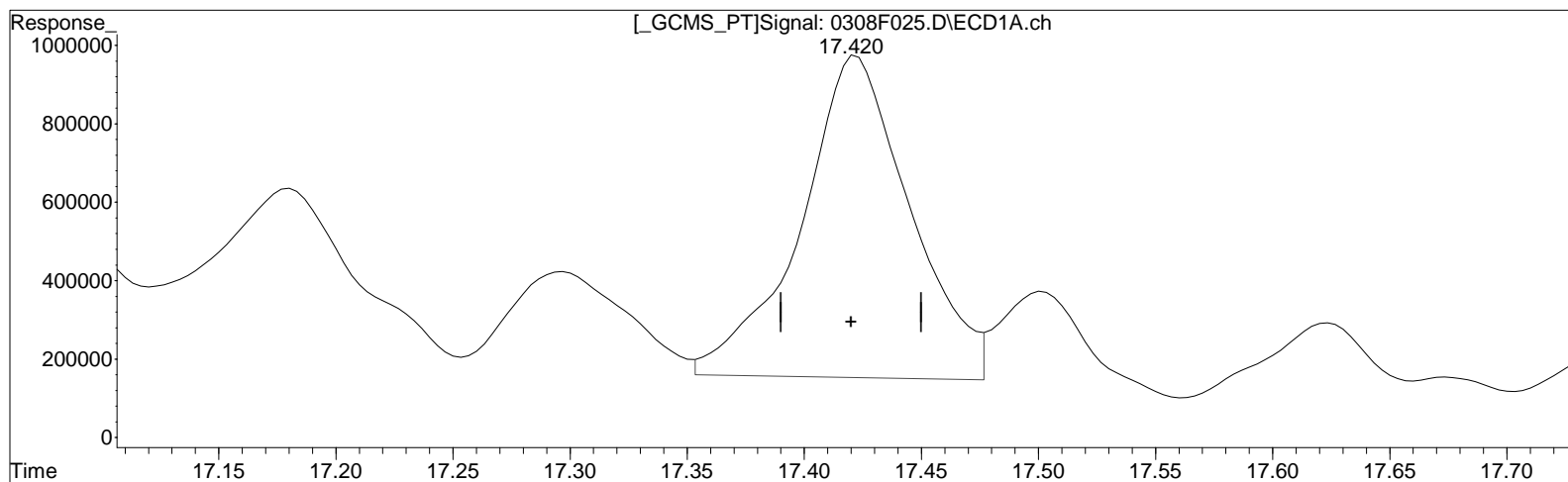
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(35) Toxaphene {6}

17.420min 242.244 ug/L

response 2674785

Manual Integration:

Before

03/09/23

(35) Toxaphene {6} #2

16.067min 239.688 ug/L m

response 2125671

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

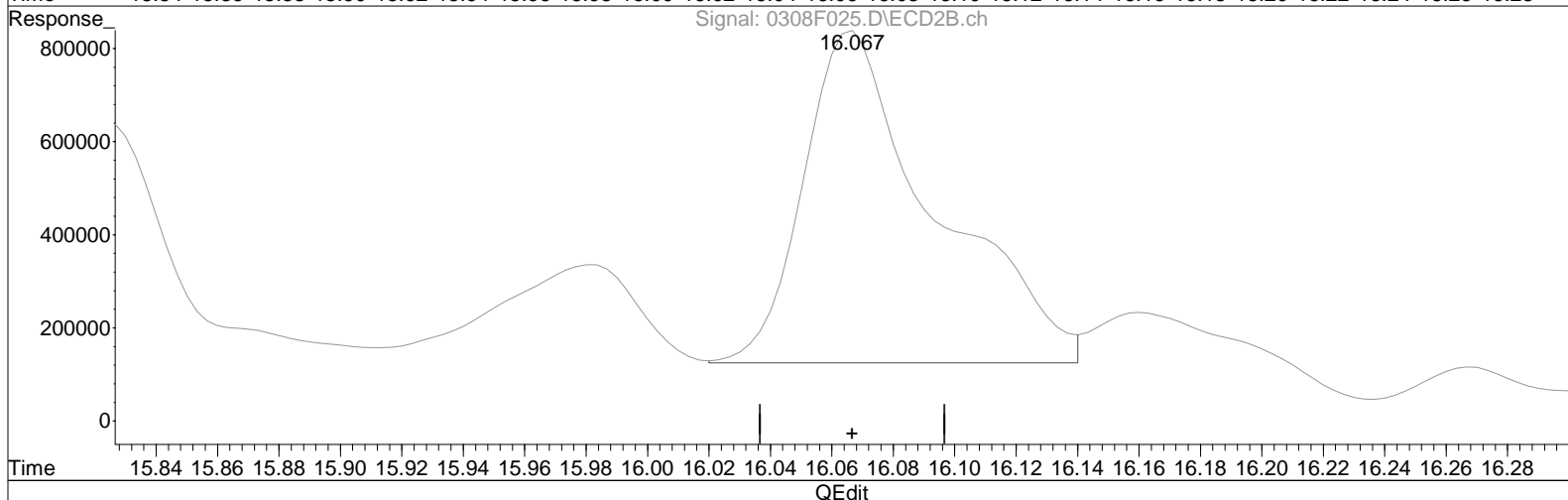
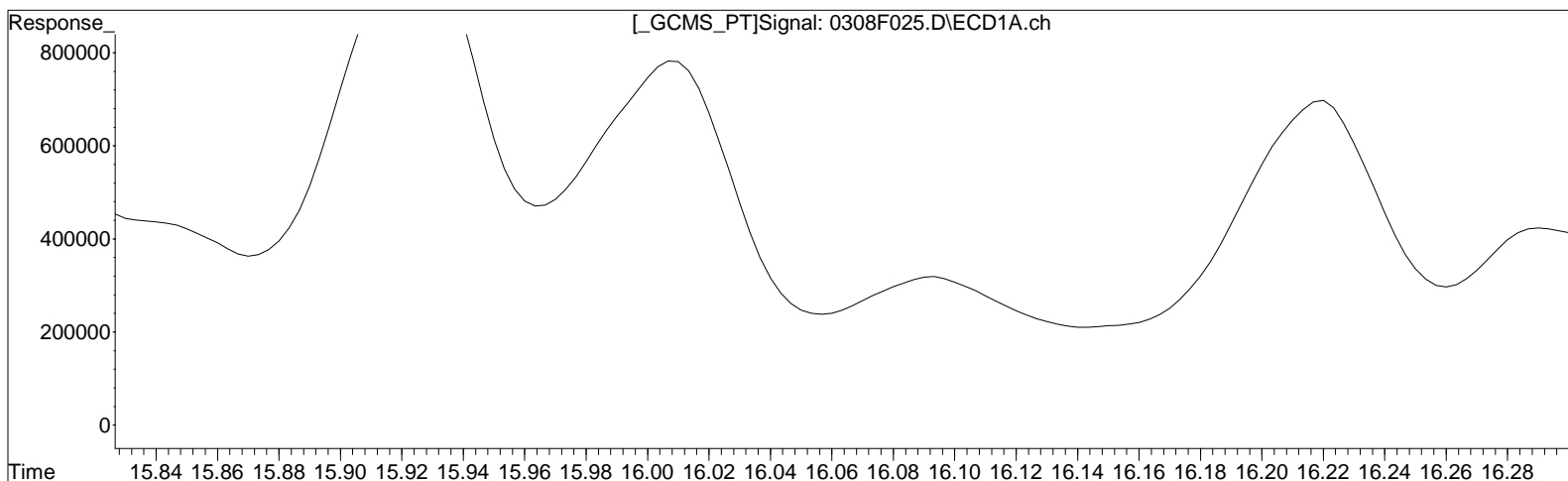
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(35) Toxaphene {6}

17.420min 242.244 ug/L

response 2674785

Manual Integration:

After

Baseline Correction

03/09/23

(35) Toxaphene {6} #2

16.067min 239.688 ug/L m

response 2125671

Data File : J:\GC38\DATA\030823ICAL\0308F025.D

Vial: 29

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 09:32 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 250 PPB GCPS9-18K @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:51:01 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:50:49 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

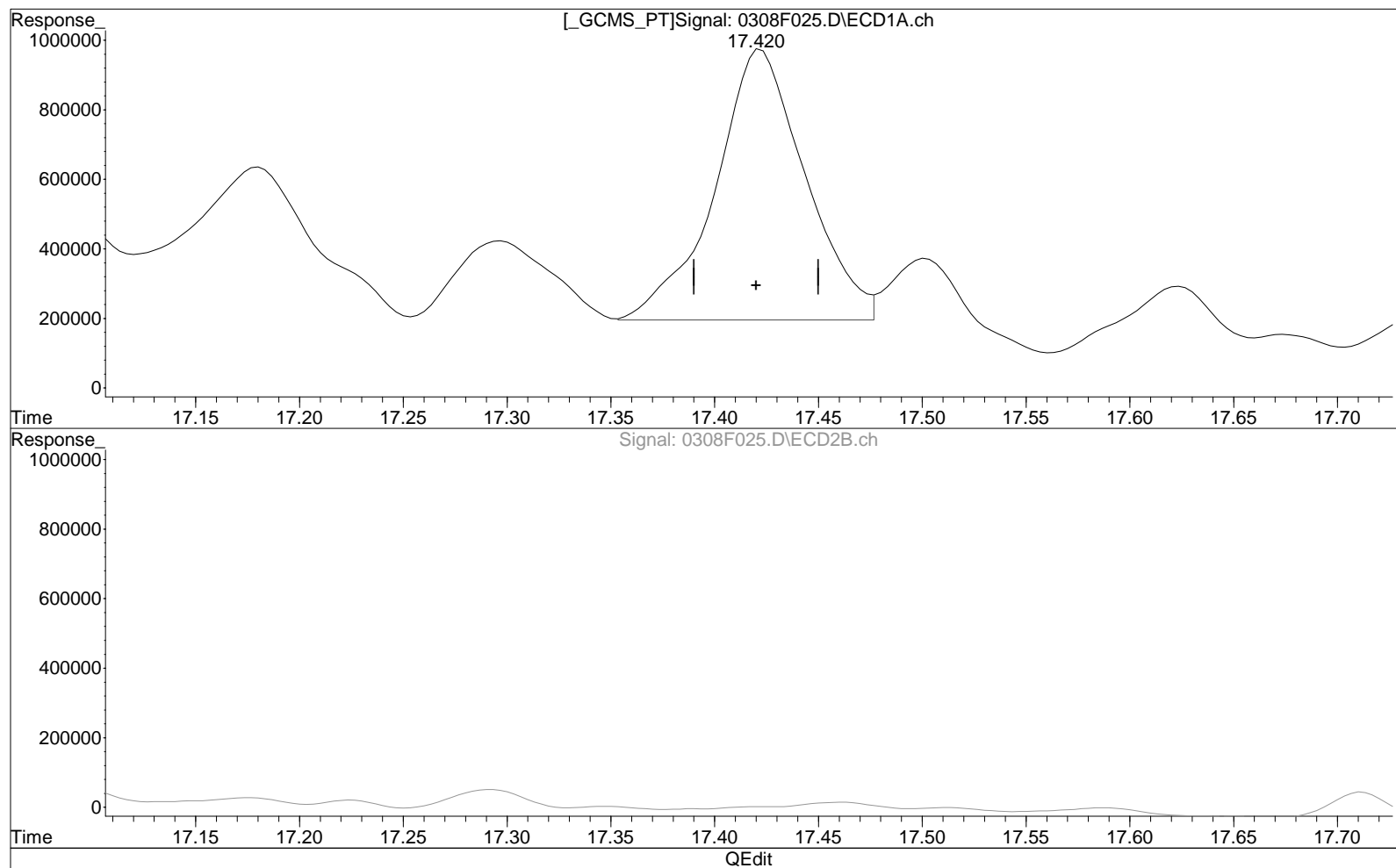
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(35) Toxaphene {6}

17.420min 214.174 ug/L m

response 2364854

(35) Toxaphene {6} #2

16.067min 239.688 ug/L m

response 2125671

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F026.D Vial: 30
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 10:16 am Operator: CORP\ALKLS.NoUser
 Sample : TOX 500 PPB GCPS9-18K Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:26:03 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	49304736	31064374	100.000	100.000
System Monitoring Compounds							
Target Compounds							
30)	Toxaphene	15.713	14.337	2182259	3091875	402.982	475.840
31)	Toxaphene...	15.790	14.423	2093744	2279822	387.454	451.099m
32)	Toxaphene...	15.923	14.583	3612556	3139653	420.598m	498.966
33)	Toxaphene...	16.217	14.963	2745133	2435074	433.456	524.162
34)	Toxaphene...	16.397	15.823	3536992	3514356	417.688	496.672
35)	Toxaphene...	17.423	16.063	4808532	4141439	447.941	477.868m

SemiQuant Compounds - Not Calibrated on this Instrument

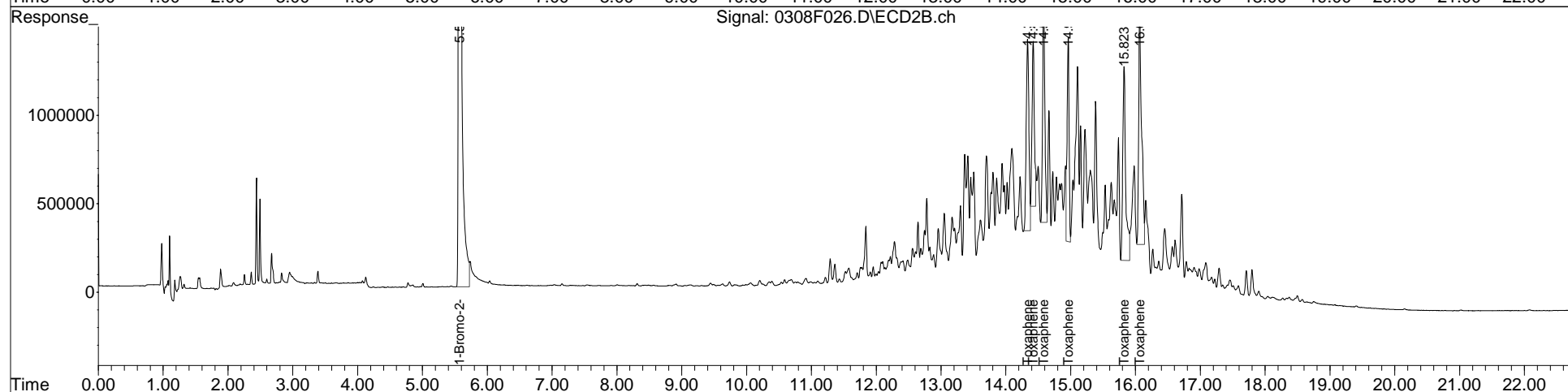
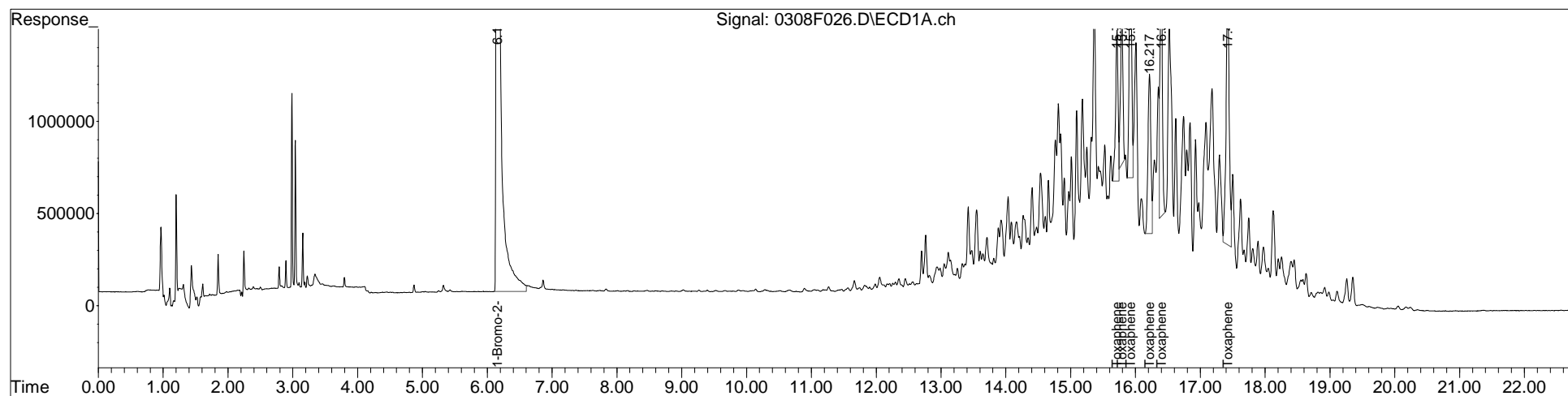
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 10:16 am
Sample : TOX 500 PPB GCPS9-18K
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:26:03 2023
Quant Results File: GC38-030823-8081.RES

Vial: 30
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F026.D

Vial: 30

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 10:16 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 500 PPB GCPS9-18K

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:54:00 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:53:52 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

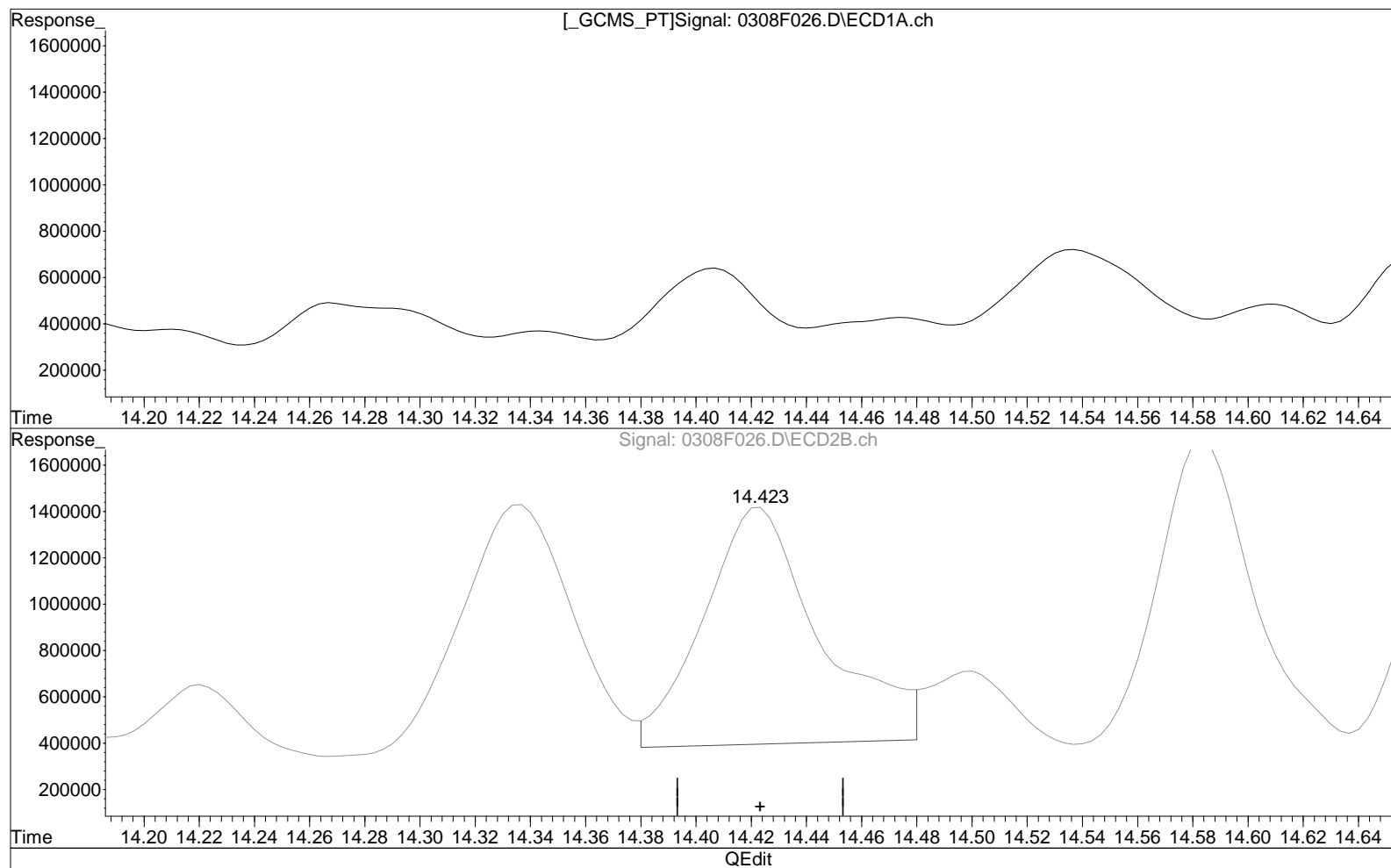
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(31) Toxaphene {2}

15.790min -100.000 ug/L

response 2093744

Manual Integration:

Before

03/09/23

(31) Toxaphene {2} #2

14.423min 583.344 ug/L

response 3005851

Data File : J:\GC38\DATA\030823ICAL\0308F026.D

Vial: 30

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 10:16 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 500 PPB GCPS9-18K

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:54:00 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:53:52 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

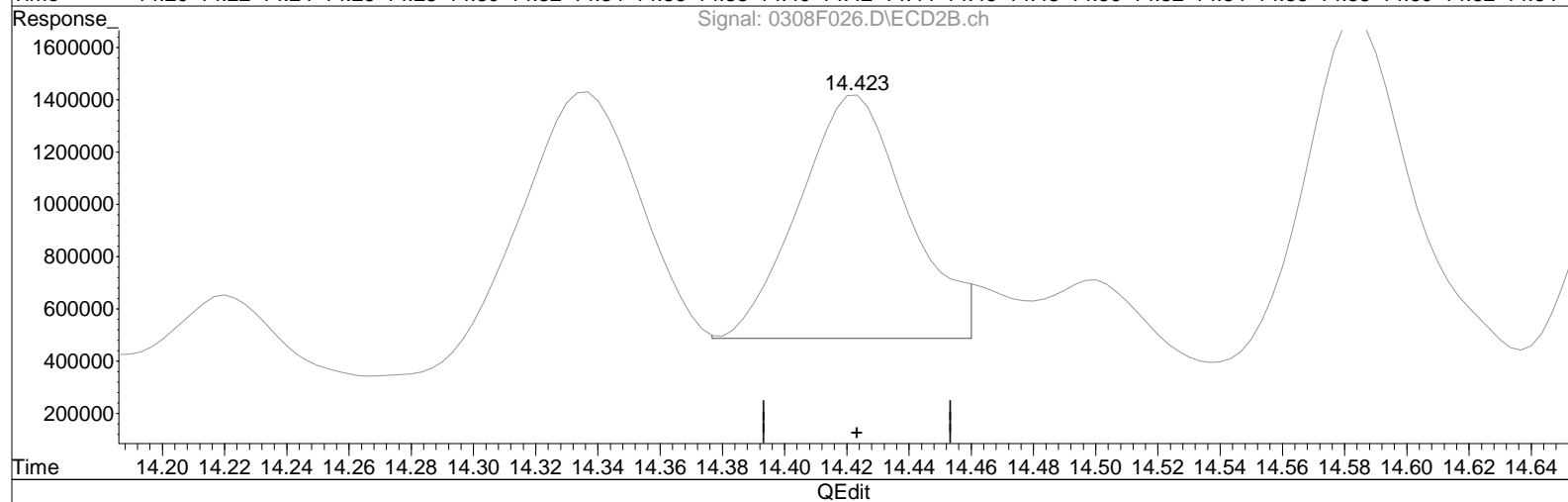
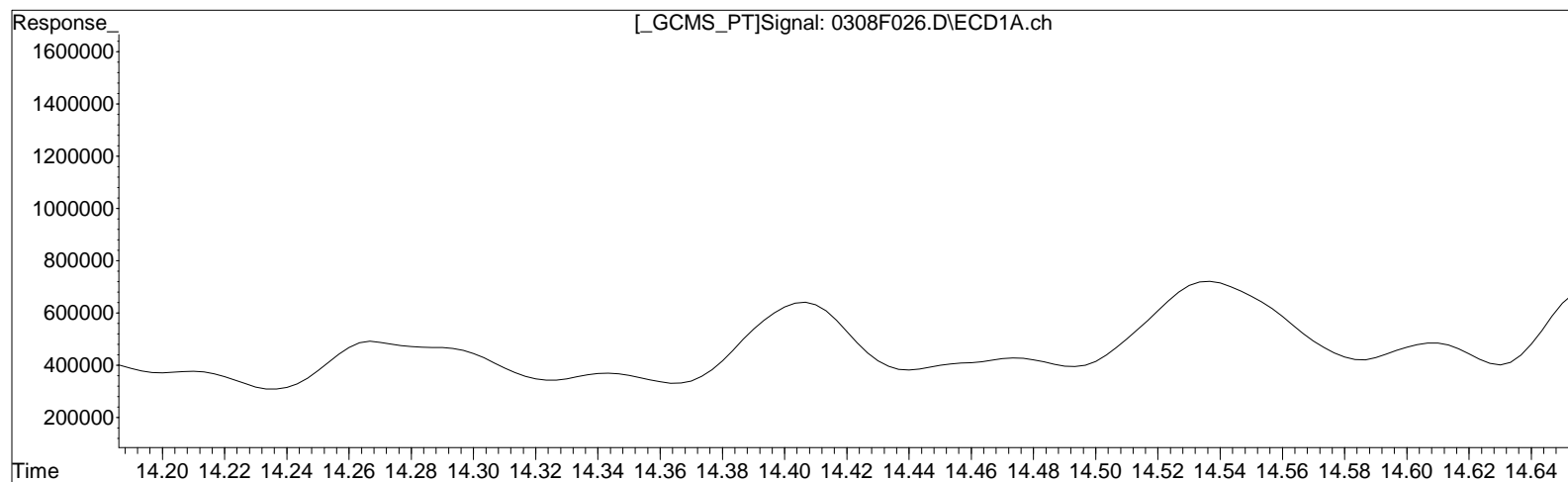
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(31) Toxaphene {2}

15.790min -100.000 ug/L

response 2093744

(31) Toxaphene {2} #2

14.423min 442.444 ug/L m

response 2279822

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F026.D

Vial: 30

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 10:16 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 500 PPB GCPS9-18K

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:54:00 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:53:52 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

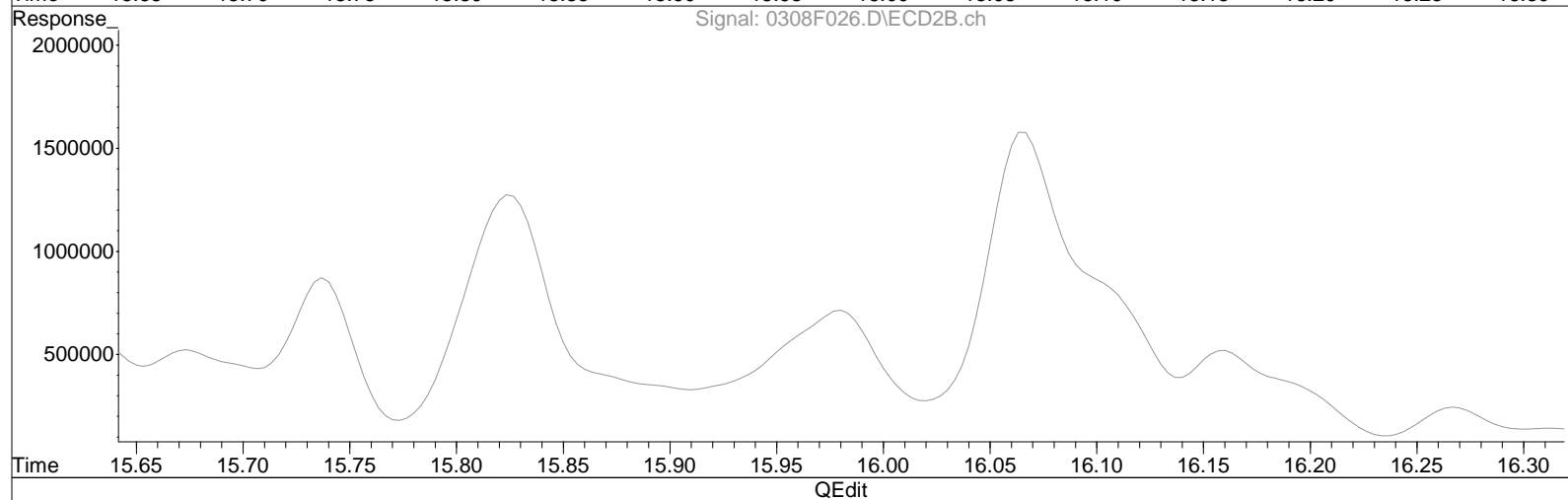
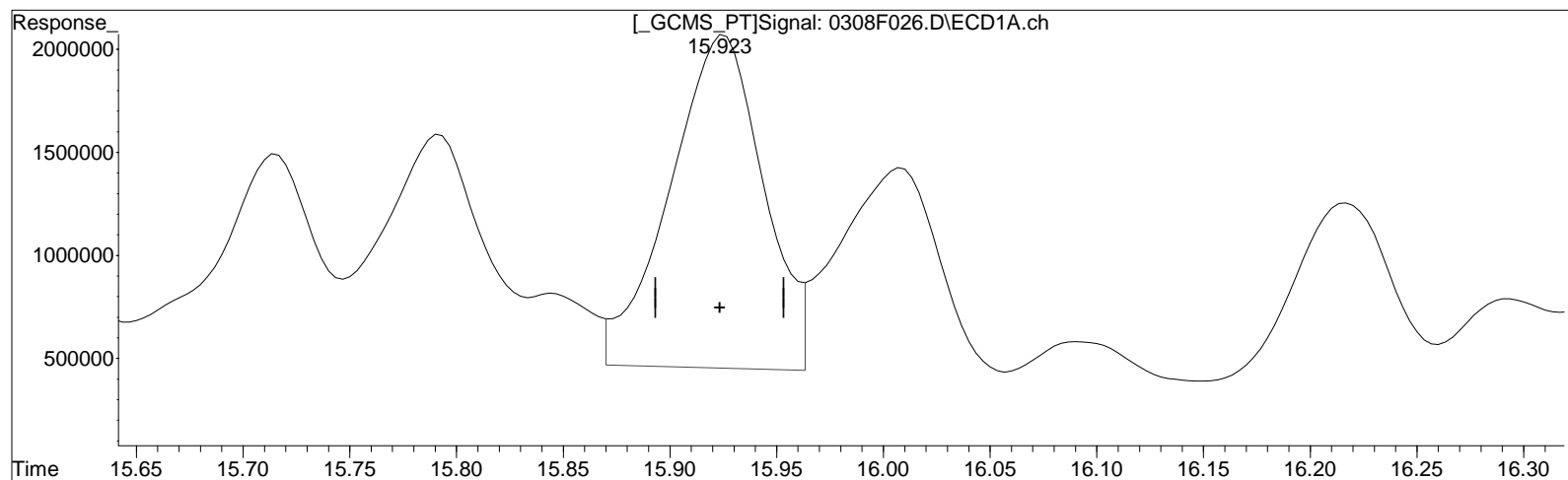
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(32) Toxaphene {3}

15.923min 558.672 ug/L

response 4950900

Manual Integration:

Before

03/09/23

(32) Toxaphene {3} #2

14.583min 498.760 ug/L

response 3139653

(+) = Expected Retention Time

Data File : J:\GC38\DATA\030823ICAL\0308F026.D

Vial: 30

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 10:16 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 500 PPB GCPS9-18K

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:54:00 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:53:52 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

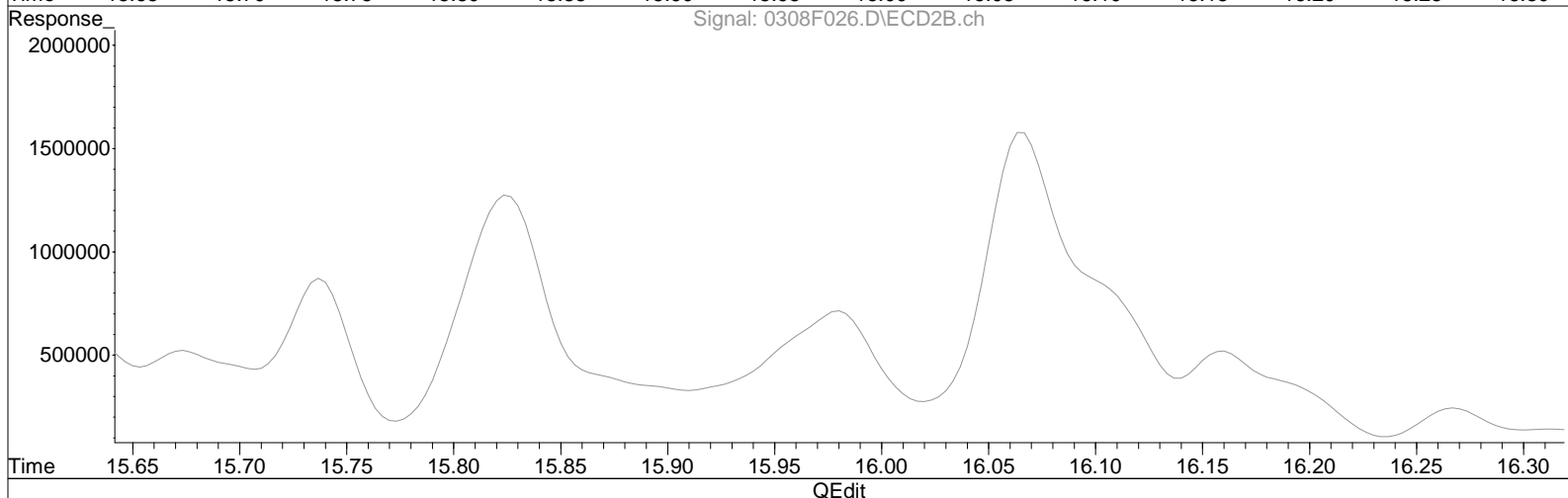
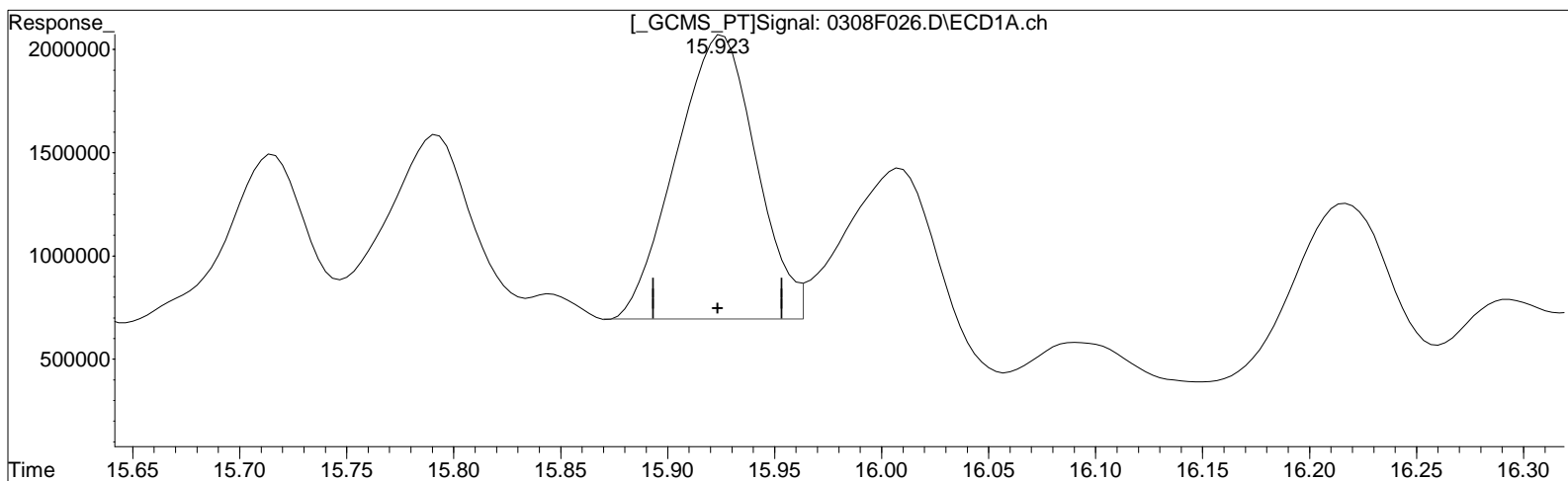
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(32) Toxaphene {3}

15.923min 407.650 ug/L m

response 3612556

(32) Toxaphene {3} #2

14.583min 498.760 ug/L

response 3139653

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F026.D

Vial: 30

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 10:16 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 500 PPB GCPS9-18K

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:54:00 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:53:52 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

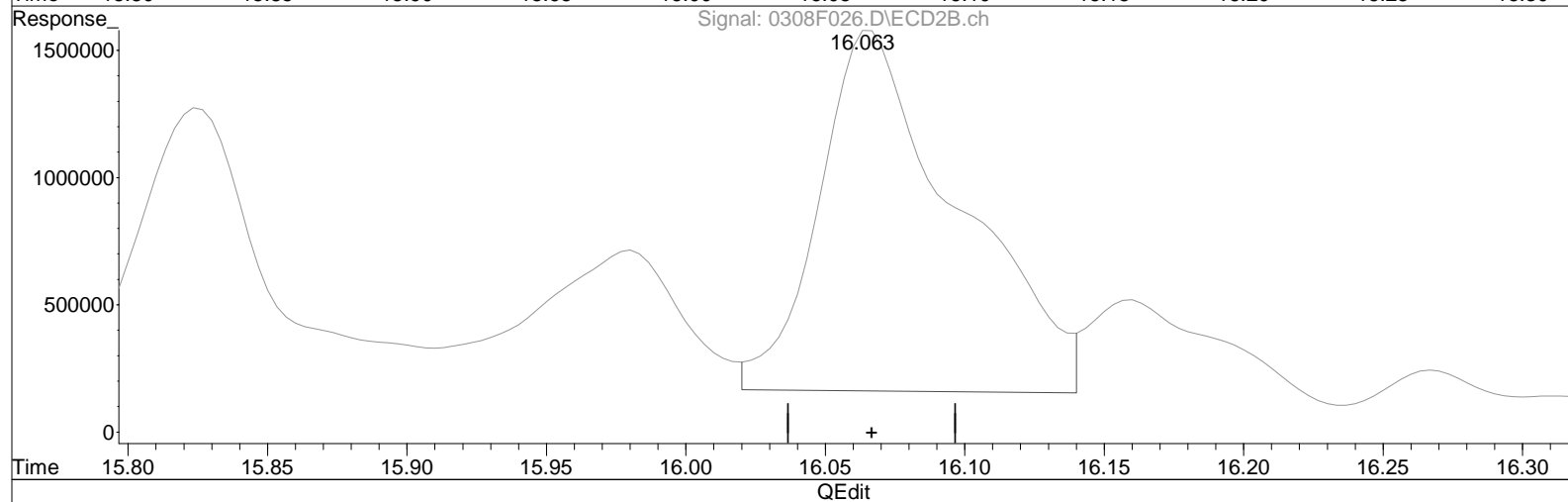
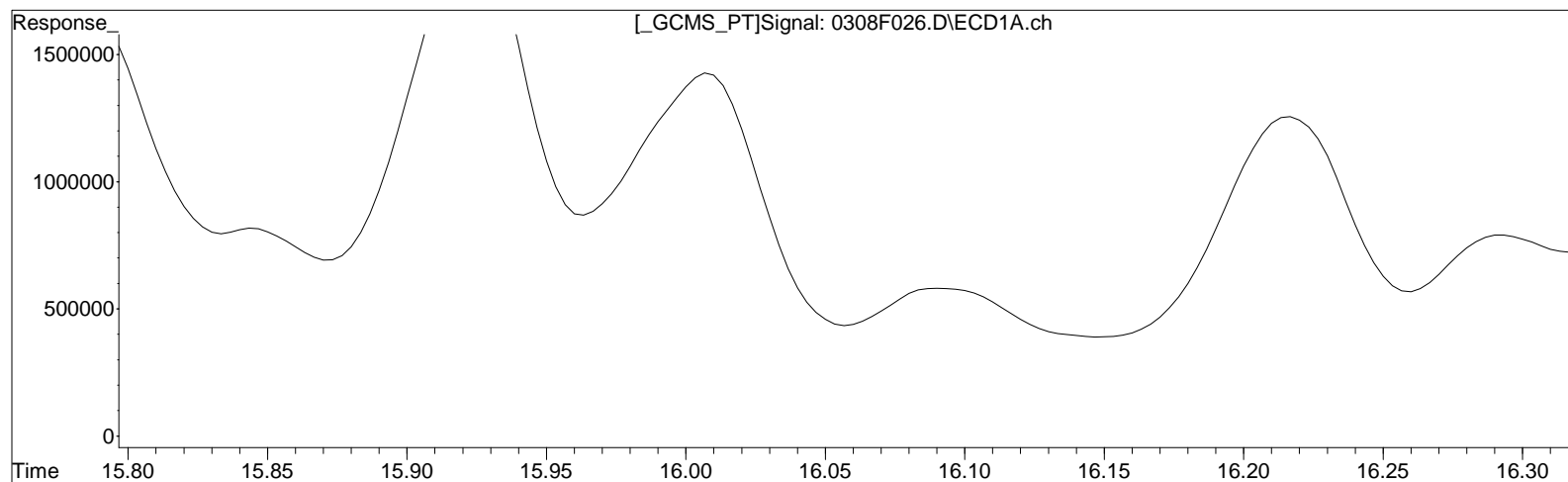
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(35) Toxaphene {6}

17.423min 438.804 ug/L

response 4808532

Manual Integration:

Before

03/09/23

(35) Toxaphene {6} #2

16.063min 563.627 ug/L

response 4927909

Data File : J:\GC38\DATA\030823ICAL\0308F026.D

Vial: 30

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 10:16 am

Operator: CORP\ALKLS.NoUser

Sample : TOX 500 PPB GCPS9-18K

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 16:54:00 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 16:53:52 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

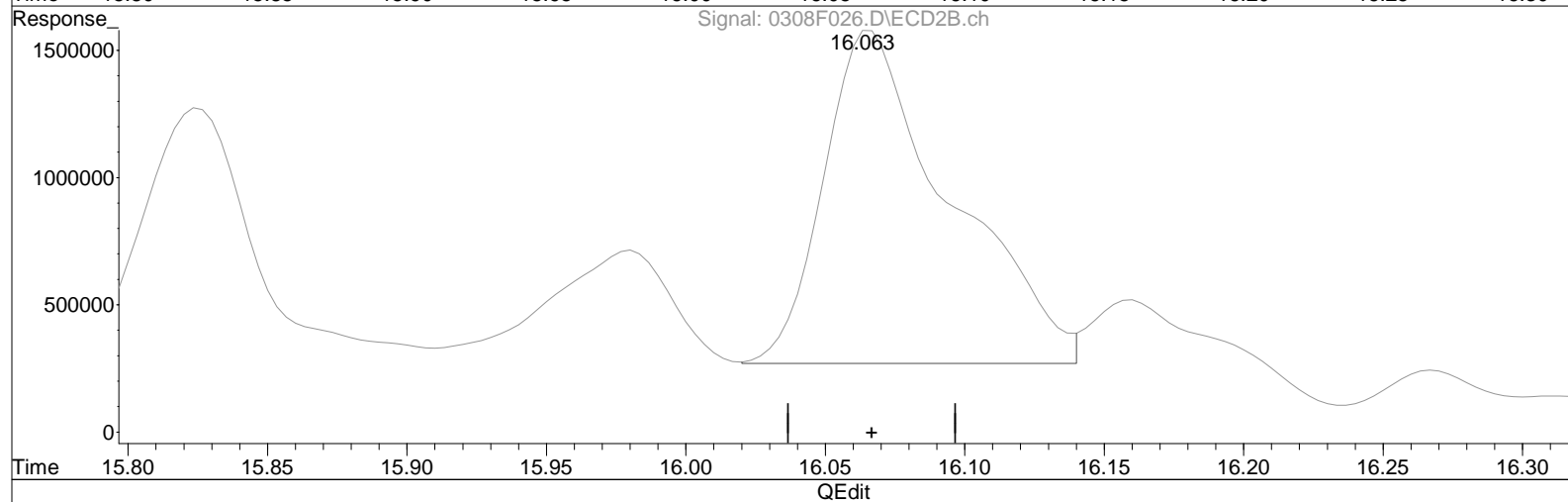
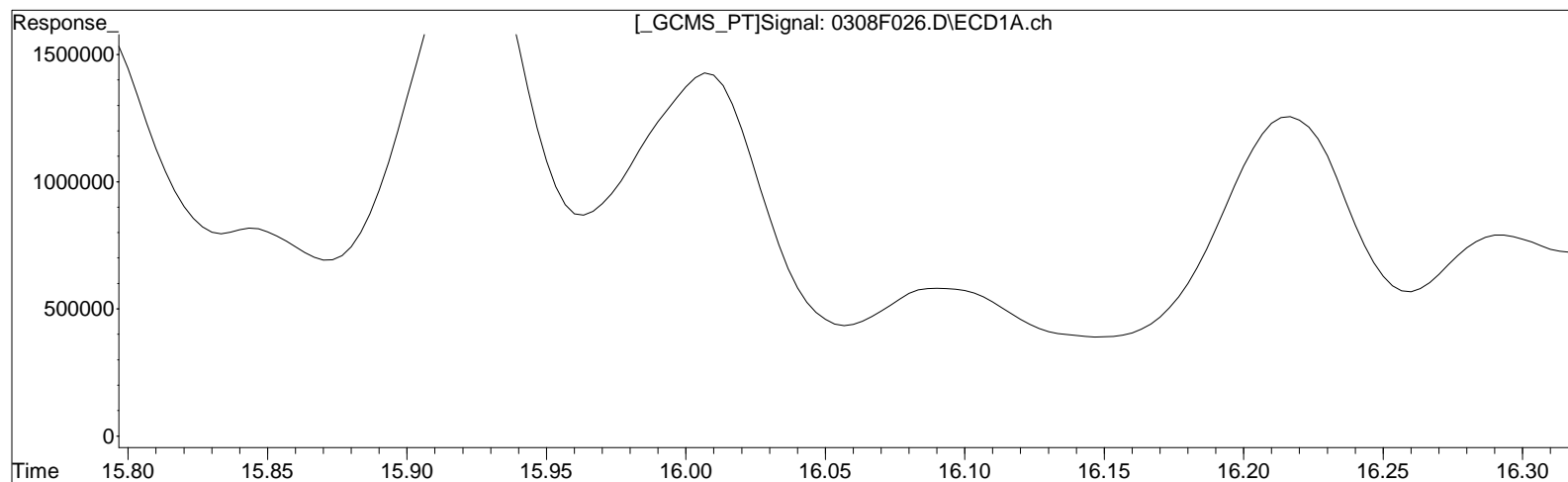
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(35) Toxaphene {6}

17.423min 438.804 ug/L

response 4808532

(35) Toxaphene {6} #2

16.063min 473.675 ug/L m

response 4141439

Manual Integration:

After

Baseline Correction

03/09/23

Data File : J:\GC38\DATA\030823ICAL\0308F027.D Vial: 31
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 11:01 am Operator: CORP\ALKLS.NoUser
 Sample : TOX ICV 100 PPB GCPS9-22I @5X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:41:12 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	49174450	32003514	100.000	100.000
System Monitoring Compounds							
Target Compounds							
30)	Toxaphene	15.713	14.337	559539	631289	103.600	94.305
31)	Toxaphene...	15.790	14.420	511848	494108	94.970	94.898
32)	Toxaphene...	15.923	14.583	884087	614436	103.204m	94.783
33)	Toxaphene...	16.220	14.963	630937	440928	99.889	92.127
34)	Toxaphene...	16.397	15.823	840577	692459	99.528m	94.991
35)	Toxaphene...	17.423	16.067	1099614	816822	102.706	91.485m

SemiQuant Compounds - Not Calibrated on this Instrument

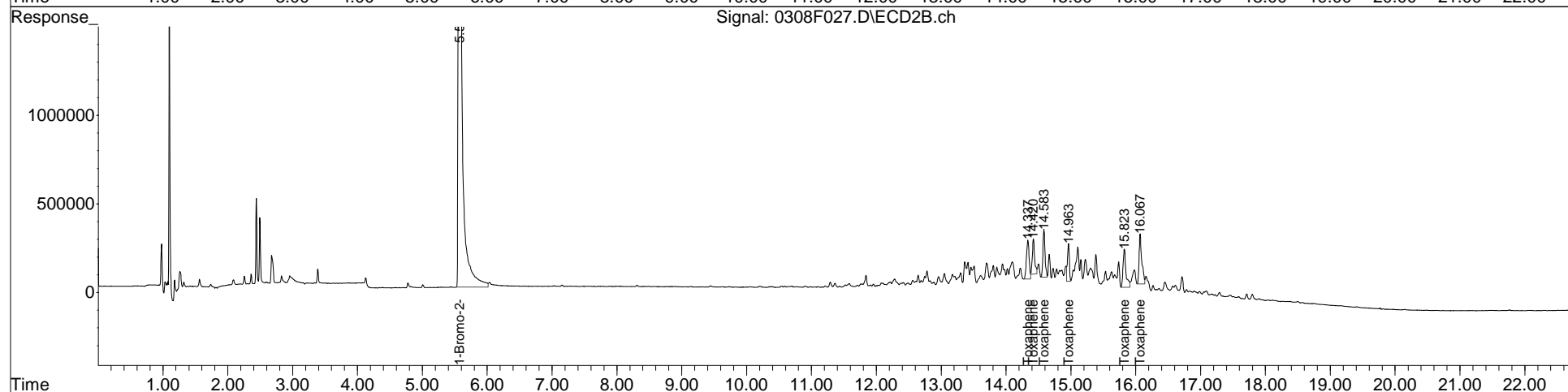
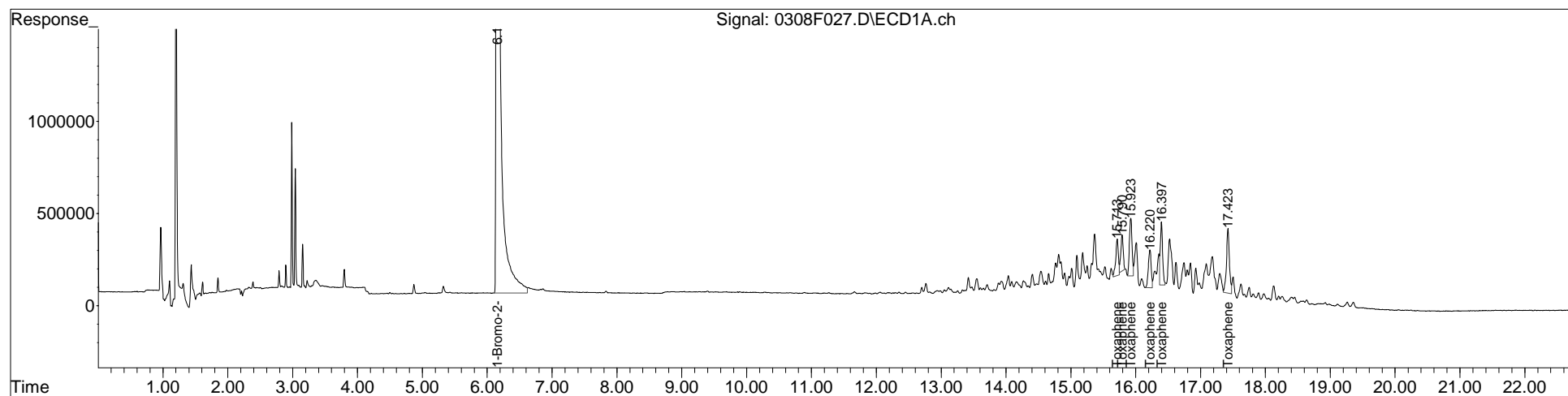
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 11:01 am
Sample : TOX ICV 100 PPB GCPS9-22I @5X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:41:12 2023
Quant Results File: GC38-030823-8081.RES

Vial: 31
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F028.D Vial: 32
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 11:46 am Operator: CORP\ALKLS.NoUser
 Sample : CHLOR 2 PPB GCPS9-24I@100X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:26:22 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	45084624	29668539	100.000	100.000
System Monitoring Compounds							
Target Compounds							
37)	Chlordane	11.737	10.107	57004	35492	2.119	2.111
38)	Chlordane...	12.147	10.503	67488	49029	2.213	2.409m
39)	Chlordane...	12.810	12.683	48284	89008	2.226	2.123
40)	Chlordane...	14.213	12.730	153907	51281	2.266	2.042
41)	Chlordane...	14.300	12.803	122543	22057	2.281	1.782
42)	Chlordane...	14.390	12.860	91258	84027	2.356	2.241

SemiQuant Compounds - Not Calibrated on this Instrument

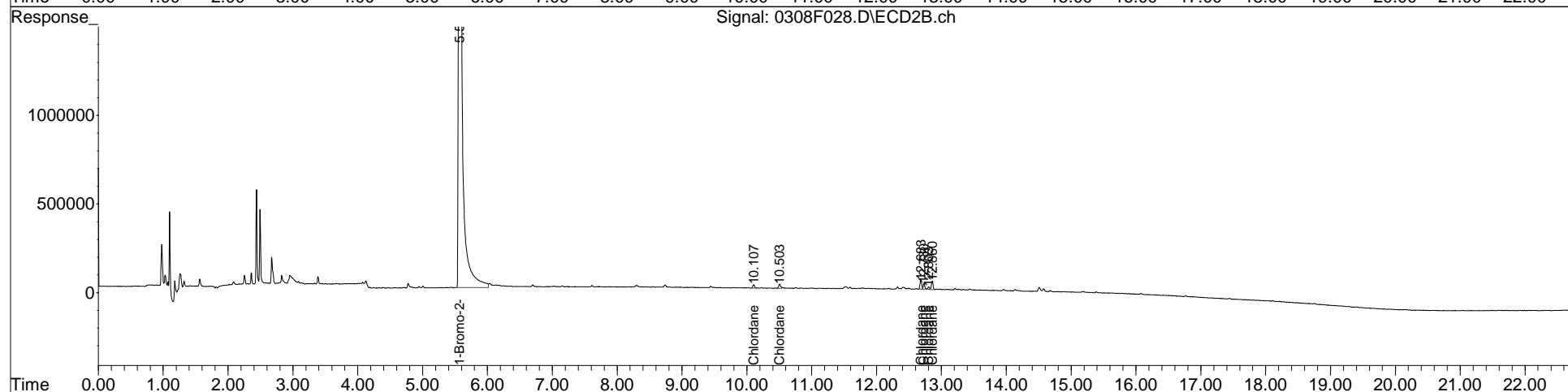
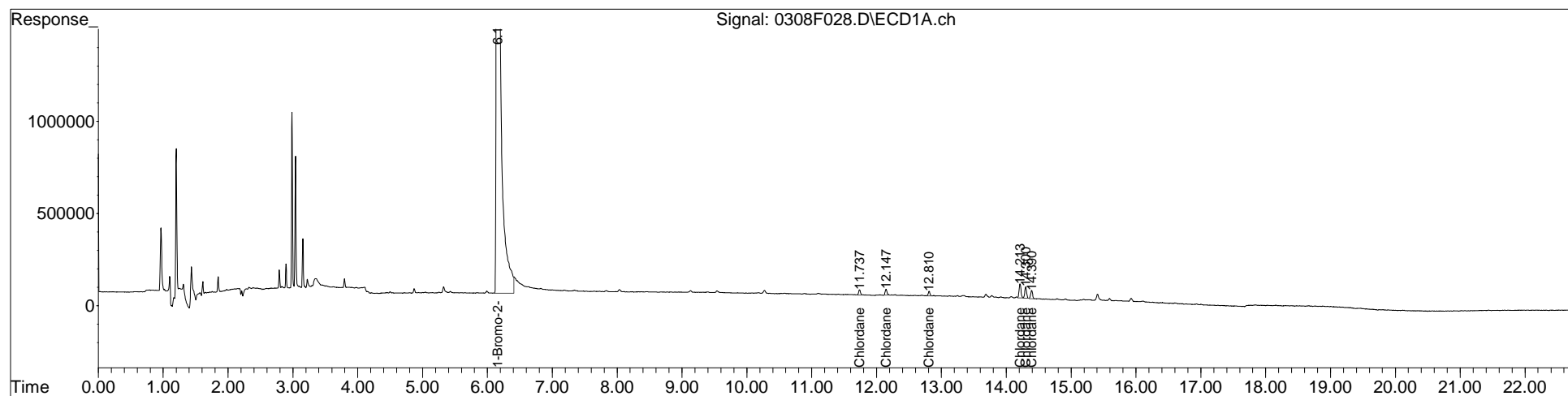
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 11:46 am
Sample : CHLOR 2 PPB GCPS9-24I@100X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:26:22 2023
Quant Results File: GC38-030823-8081.RES

Vial: 32
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F028.D

Vial: 32

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 11:46 am

Operator: CORP\ALKLS.NoUser

Sample : CHLOR 2 PPB GCPS9-24I@100X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 17:08:41 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 17:08:26 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

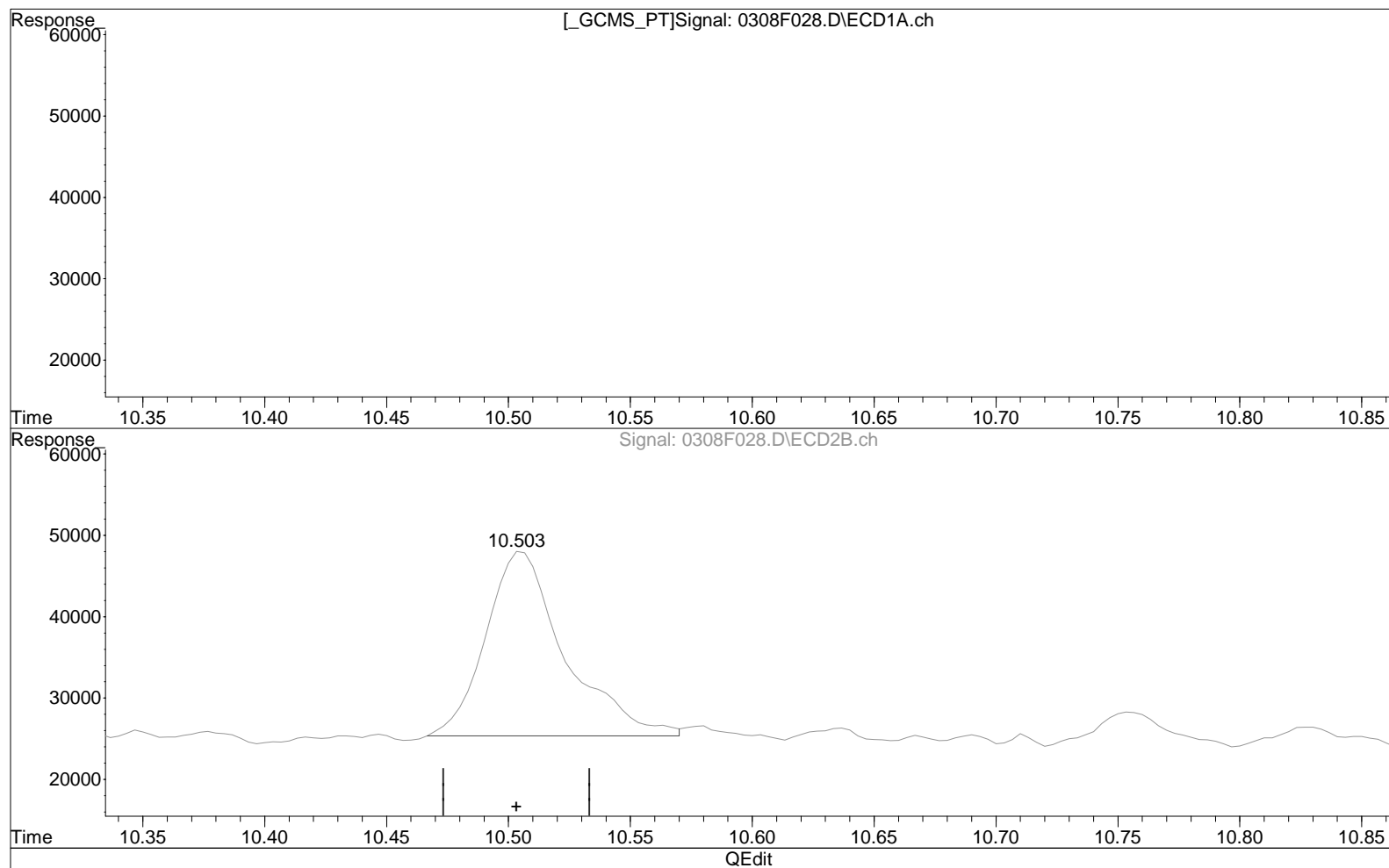
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(38) Chlordane {2}

12.147min 2.199 ug/L

response 67488

Manual Integration:

Before

03/09/23

(38) Chlordane {2} #2

10.503min 2.660 ug/L

response 51187

Data File : J:\GC38\DATA\030823ICAL\0308F028.D

Vial: 32

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 09 Mar 2023 11:46 am

Operator: CORP\ALKLS.NoUser

Sample : CHLOR 2 PPB GCPS9-24I@100X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Mar 09 17:08:41 2023

Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Thu Mar 09 17:08:26 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

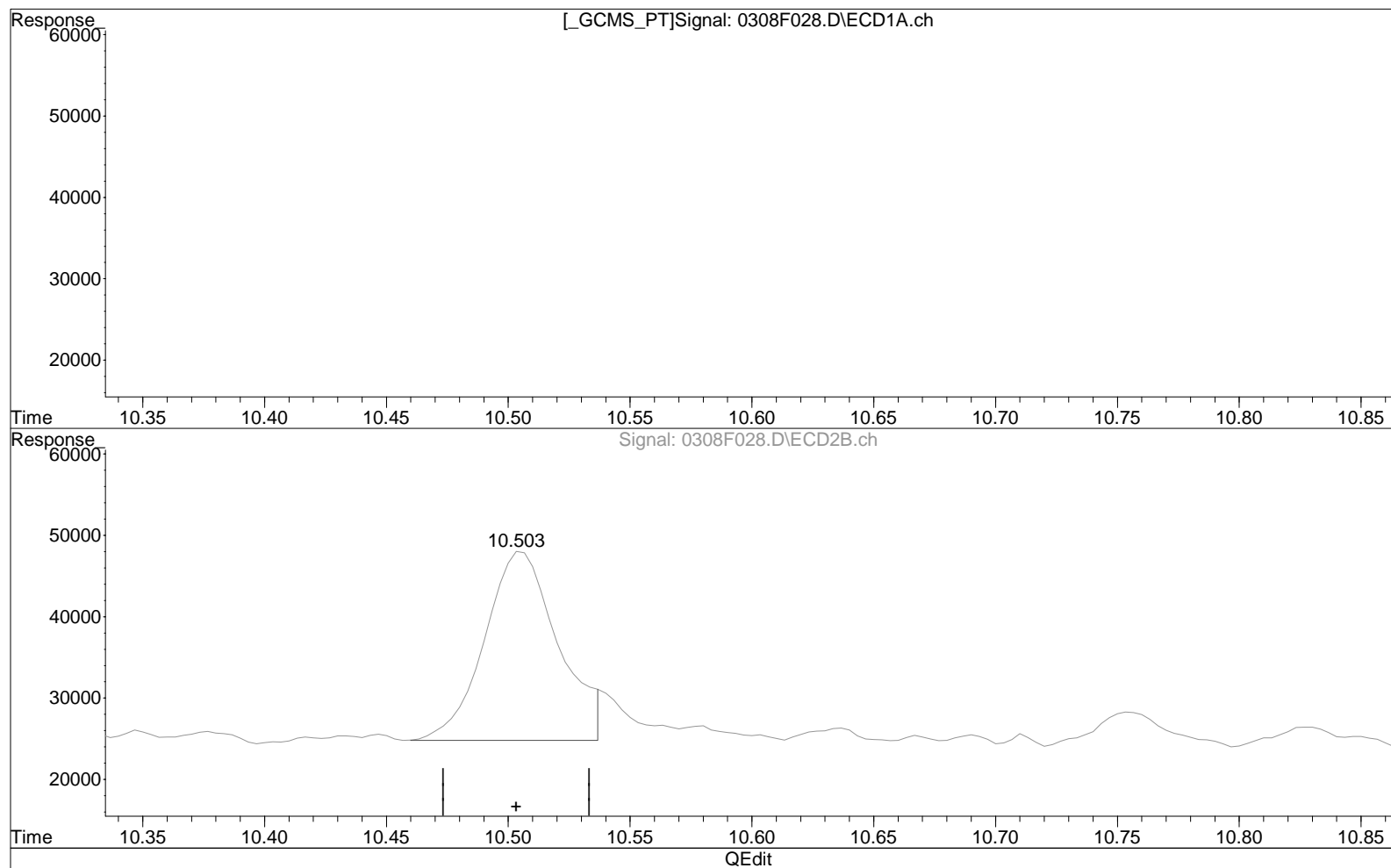
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(38) Chlordane {2}

12.147min 2.199 ug/L

response 67488

Manual Integration:

After

Baseline Correction

03/09/23

(38) Chlordane {2} #2

10.503min 2.548 ug/L m

response 49029

Data File : J:\GC38\DATA\030823ICAL\0308F029.D Vial: 33
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 12:31 pm Operator: CORP\ALKLS.NoUser
 Sample : CHLOR 5 PPB GCPS9-24I @40X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:26:36 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	47641717	30637552	100.000	100.000
System Monitoring Compounds							
Target Compounds							
37)	Chlordane	11.737	10.107	149156	92181	5.247	5.310
38)	Chlordane...	12.147	10.503	167704	117645	5.204	5.597
39)	Chlordane...	12.810	12.683	114677	227936	5.002	5.265
40)	Chlordane...	14.210	12.730	392222	139782	5.466	5.389
41)	Chlordane...	14.300	12.803	305117	67146	5.375	5.255
42)	Chlordane...	14.390	12.857	231129	204234	5.646	5.275

SemiQuant Compounds - Not Calibrated on this Instrument

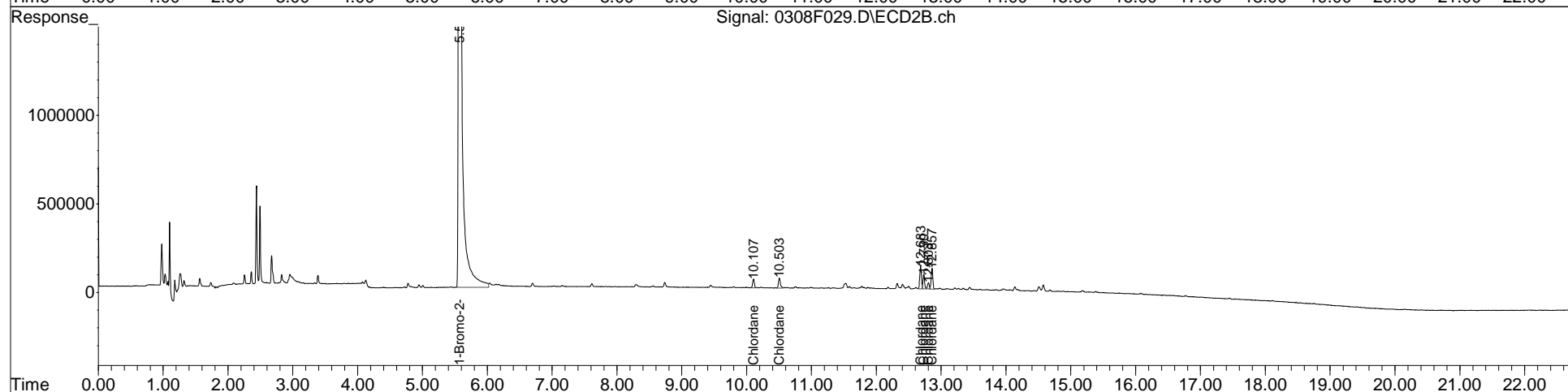
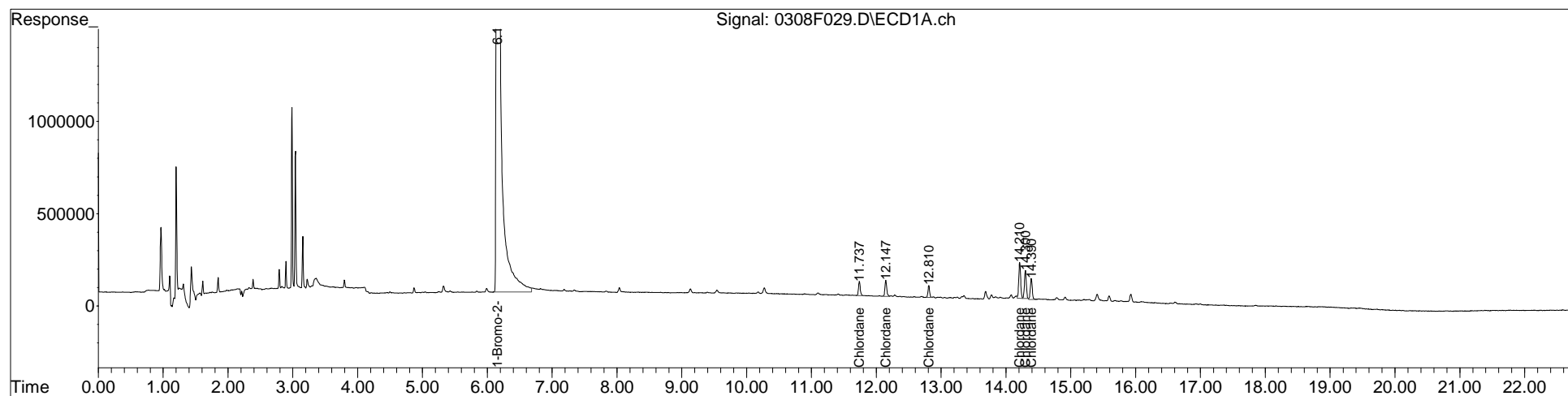
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 12:31 pm
Sample : CHLOR 5 PPB GCPS9-24I @40X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:26:36 2023
Quant Results File: GC38-030823-8081.RES

Vial: 33
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F030.D Vial: 34
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 01:16 pm Operator: CORP\ALKLS.NoUser
 Sample : CHLOR 10 PPB GCPS9-24I @20X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:26:49 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	47997278	30861232	100.000	100.000

System Monitoring Compounds

Target Compounds	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
37) Chlordane	11.737	10.107	301290	176254	10.521	10.080
38) Chlordane...	12.147	10.503	339995	217609	10.473	10.277
39) Chlordane...	12.810	12.683	241745	440060	10.466	10.091
40) Chlordane...	14.213	12.730	767502	271110	10.616	10.376
41) Chlordane...	14.300	12.803	612174	135200	10.705	10.503
42) Chlordane...	14.390	12.860	431616	393857	10.466	10.099

SemiQuant Compounds - Not Calibrated on this Instrument

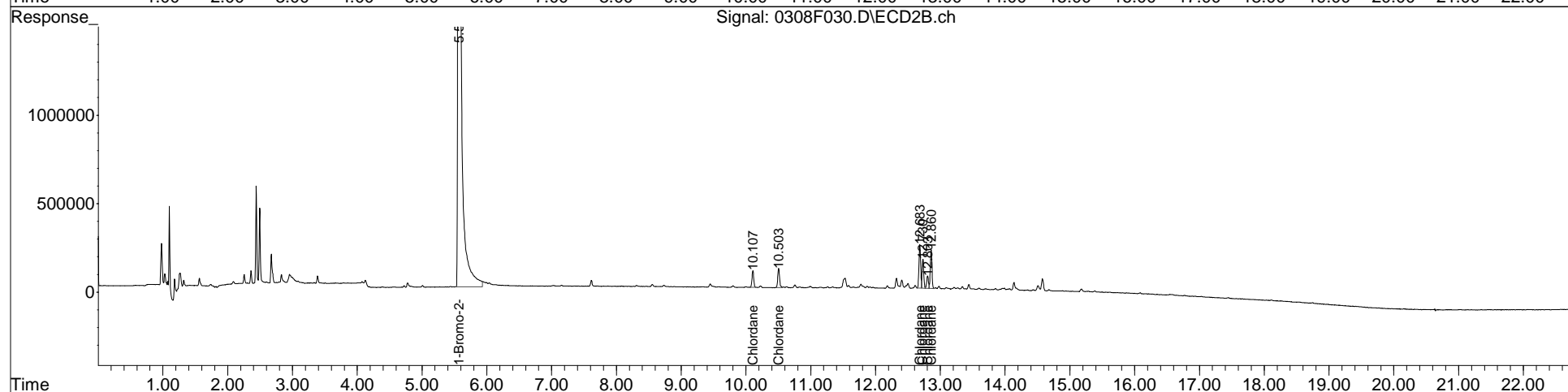
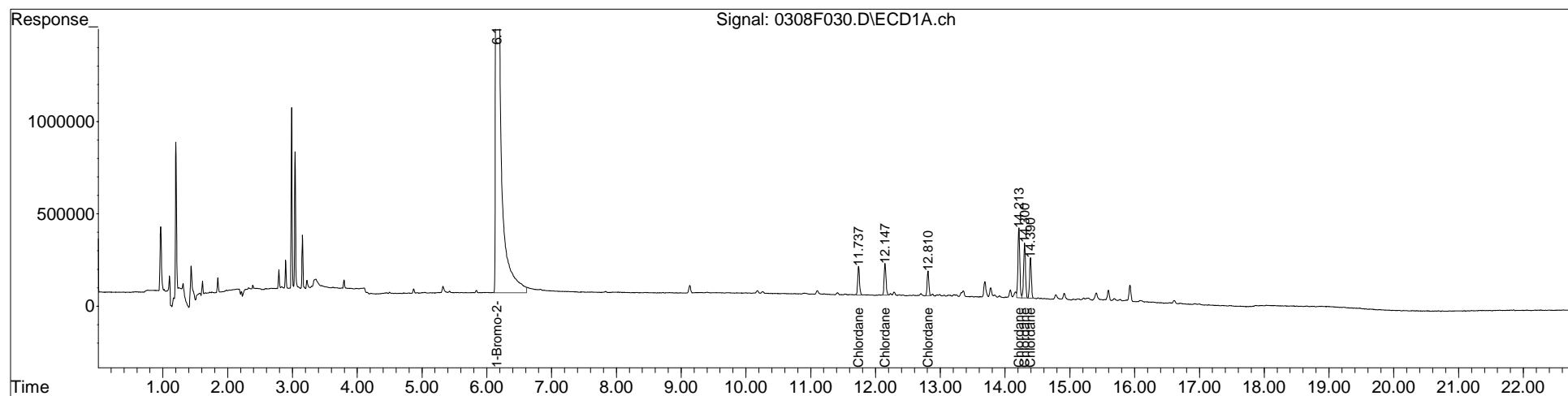
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 01:16 pm
Sample : CHLOR 10 PPB GCPS9-24I @20X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:26:49 2023
Quant Results File: GC38-030823-8081.RES

Vial: 34
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F031.D Vial: 35
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 02:01 pm Operator: CORP\ALKLS.NoUser
 Sample : CHLOR 20 PPB GCPS9-24I@10X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:27:02 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	49626551	31715993	100.000	100.000
System Monitoring Compounds							
Target Compounds							
37)	Chlordane	11.737	10.107	602755	355650	20.356	19.792
38)	Chlordane...	12.147	10.503	675730	411373	20.132	18.904
39)	Chlordane...	12.810	12.683	501031	866605	20.980	19.336
40)	Chlordane...	14.213	12.733	1485615	525574	19.874	19.574
41)	Chlordane...	14.300	12.807	1182778	264738	20.003	20.013
42)	Chlordane...	14.390	12.860	852679	772557	19.998	19.276

SemiQuant Compounds - Not Calibrated on this Instrument

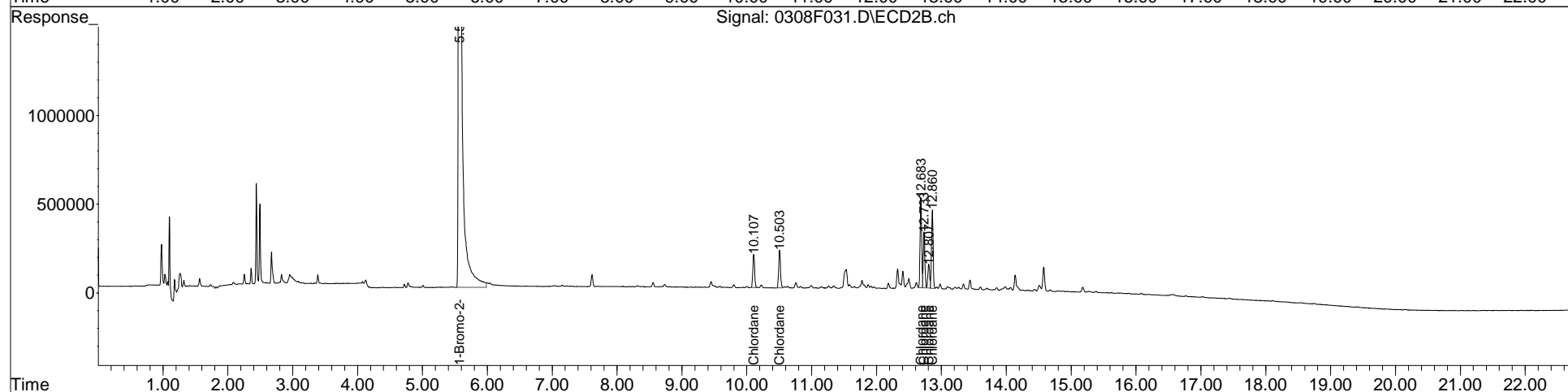
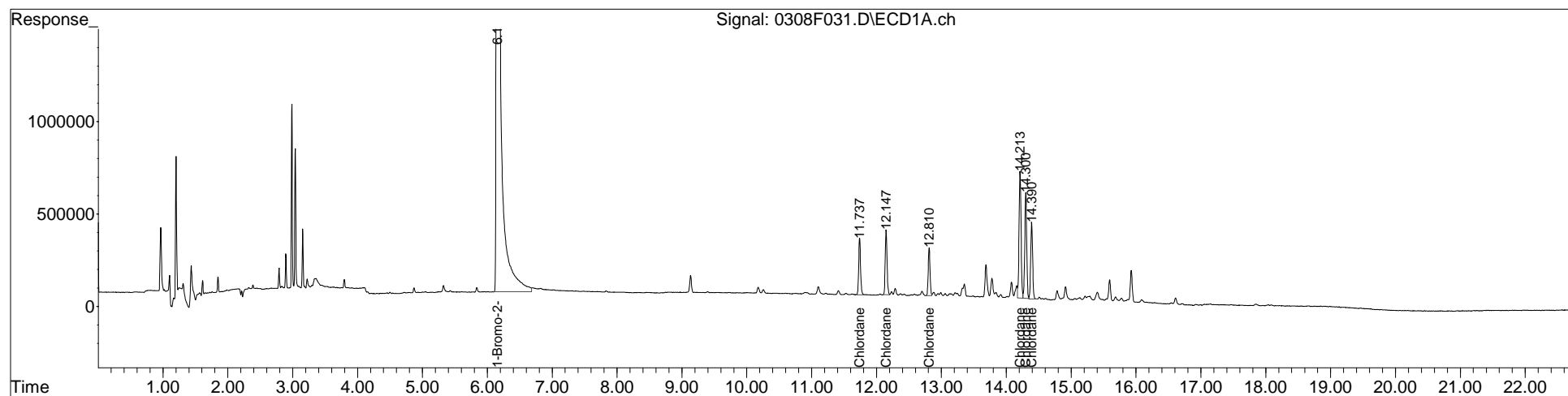
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 02:01 pm
Sample : CHLOR 20 PPB GCPS9-24I@10X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:27:02 2023
Quant Results File: GC38-030823-8081.RES

Vial: 35
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F032.D Vial: 36
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 03:44 pm Operator: CORP\ALKLS.NoUser
 Sample : CHLOR 50 PPB GCPS9-24I@4X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:27:17 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.160	5.570	47421213	29167493	100.000	100.000
System Monitoring Compounds							
Target Compounds							
37)	Chlordane	11.740	10.107	1425224	841029	50.371	50.892
38)	Chlordane...	12.150	10.503	1571397	940420	48.993	46.993
39)	Chlordane...	12.813	12.683	1145528	2030793	50.199	49.272
40)	Chlordane...	14.217	12.733	3336830	1254725	46.715	50.812
41)	Chlordane...	14.303	12.807	2686298	622198	47.544	51.144
42)	Chlordane...	14.397	12.860	1929646	1818434	47.360	49.335

SemiQuant Compounds - Not Calibrated on this Instrument

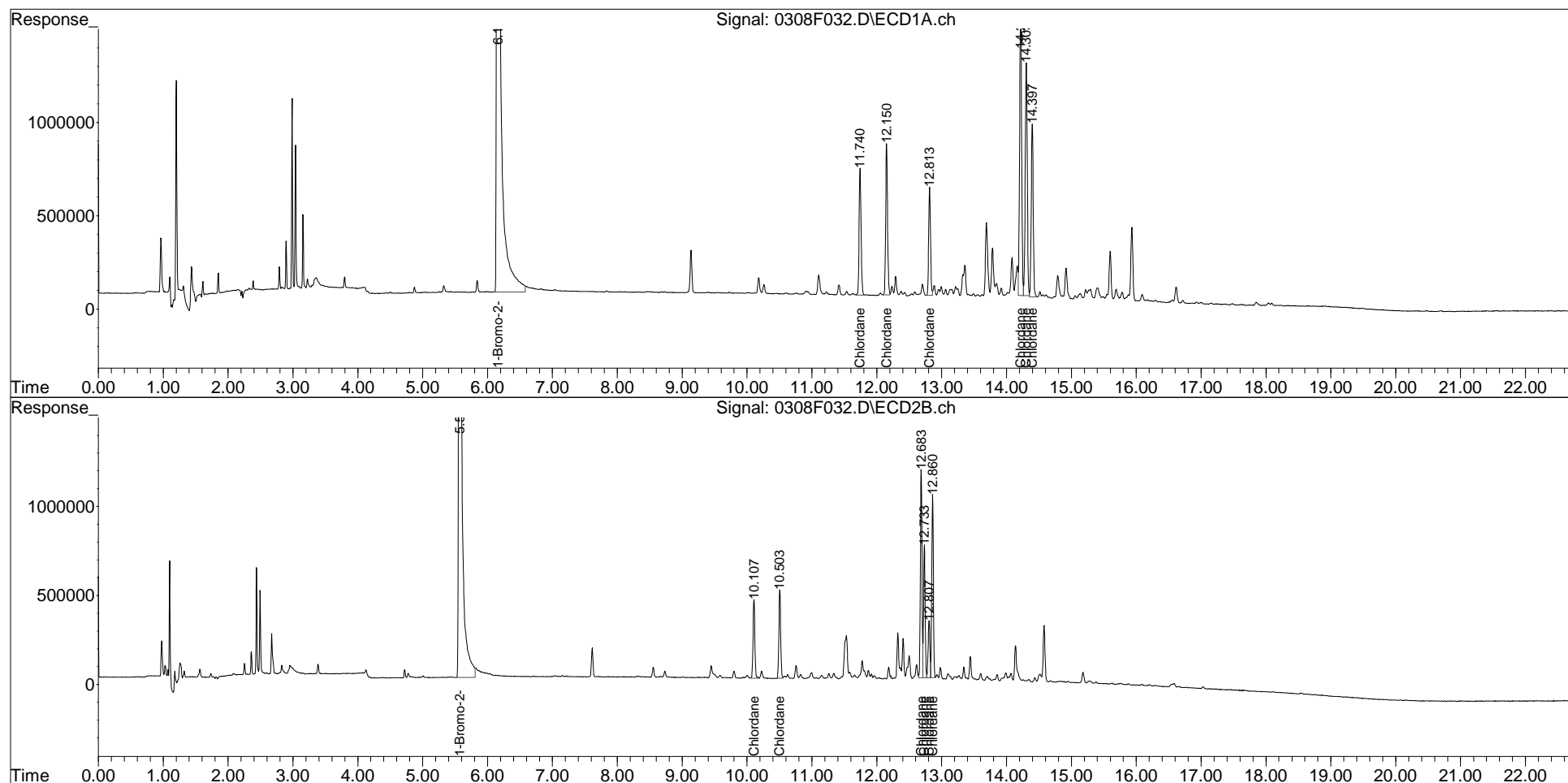
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 03:44 pm
Sample : CHLOR 50 PPB GCPS9-24I@4X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:27:17 2023
Quant Results File: GC38-030823-8081.RES

Vial: 36
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F033.D Vial: 37
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 04:28 pm Operator: CORP\ALKLS.NoUser
 Sample : CHLOR 100 PPB GCPS9-24I@2X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:27:31 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	50291465	33556729	100.000	100.000
System Monitoring Compounds							
Target Compounds							
37)	Chlordane	11.740	10.107	2811194	1809505	93.685	95.175
38)	Chlordane...	12.147	10.503	3182055	2067257	93.548	89.789
39)	Chlordane...	12.810	12.683	2273319	4577910	93.934	96.543
40)	Chlordane...	14.213	12.733	6858144	2725215	90.533	95.926
41)	Chlordane...	14.300	12.807	5434264	1442594	90.691	103.070
42)	Chlordane...	14.393	12.860	3797395	3986974	87.882	94.021

SemiQuant Compounds - Not Calibrated on this Instrument

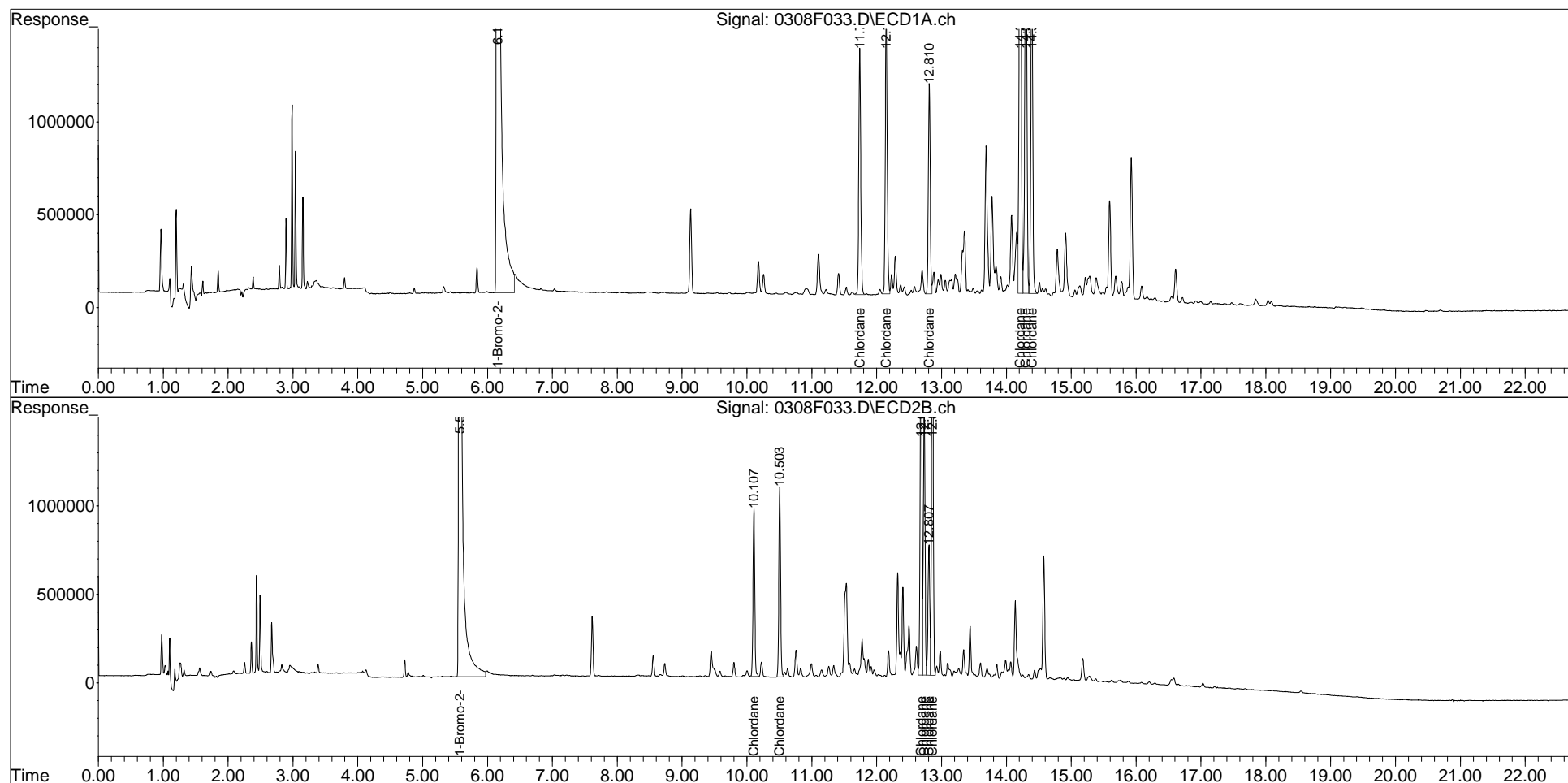
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 04:28 pm
Sample : CHLOR 100 PPB GCPS9-24I@2X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:27:31 2023
Quant Results File: GC38-030823-8081.RES

Vial: 37
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\030823ICAL\0308F034.D Vial: 38
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Mar 2023 05:13 pm Operator: CORP\ALKLS.NoUser
 Sample : CHLOR 200 PPB GCPS9-24I Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 10 11:27:44 2023
 Quant Results File: GC38-030823-8081.RES

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Fri Mar 10 11:19:35 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.157	5.570	51608326	34612719	100.000	100.000
System Monitoring Compounds							
Target Compounds							
37)	Chlordane	11.737	10.107	5400091	3588776	175.370	183.000
38)	Chlordane...	12.147	10.503	6166075	4111756	176.649	173.141
39)	Chlordane...	12.810	12.683	4211337	9378193	169.574	191.741
40)	Chlordane...	14.213	12.733	13662775	5330565	175.757	181.909
41)	Chlordane...	14.300	12.803	10525856	2752521	171.180	190.661
42)	Chlordane...	14.390	12.860	7274530	8080794	164.056	184.748

SemiQuant Compounds - Not Calibrated on this Instrument

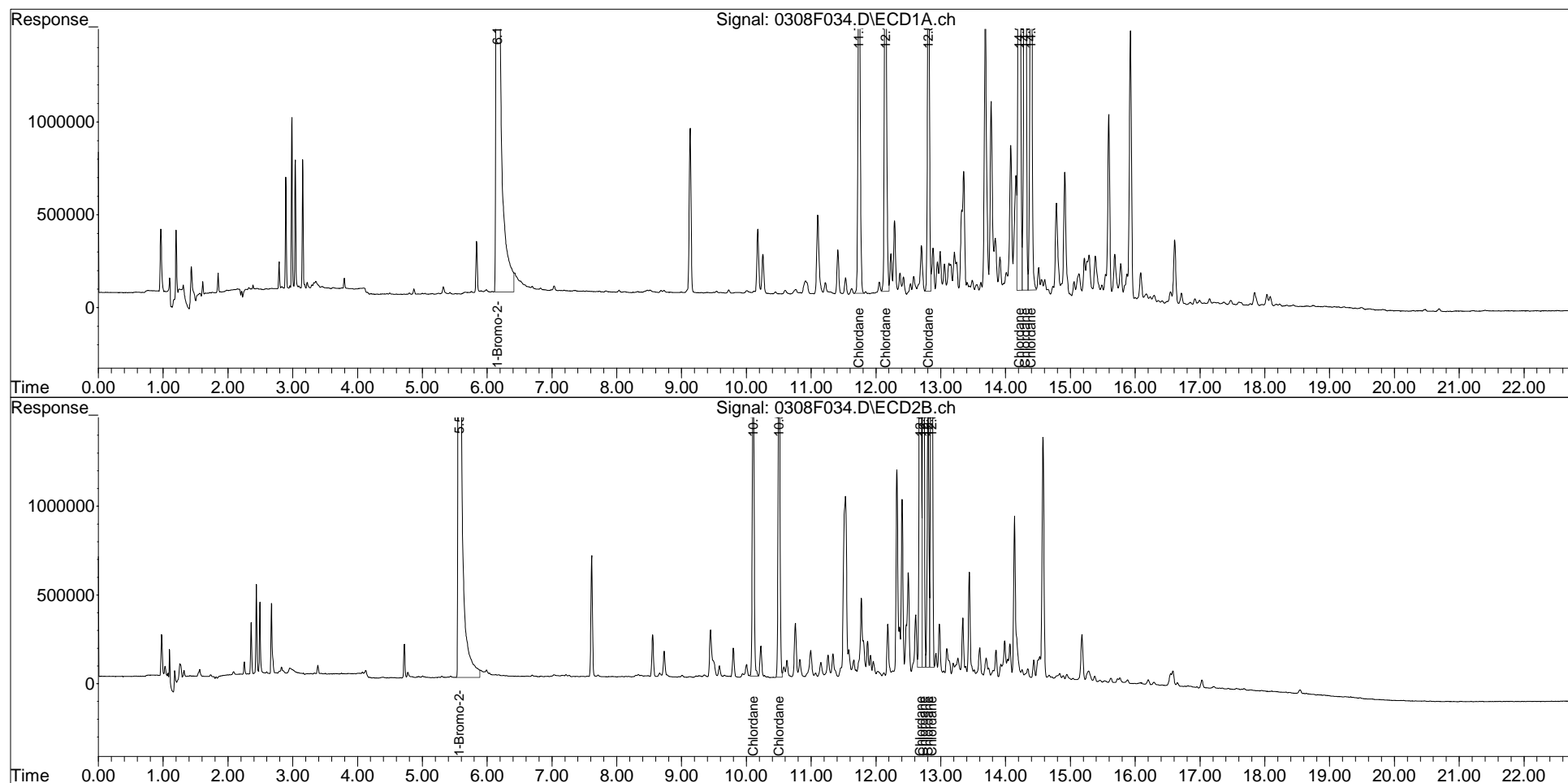
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\030823ICAL\0308F034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Mar 2023 05:13 pm
Sample : CHLOR 200 PPB GCPS9-24I
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 10 11:27:44 2023
Quant Results File: GC38-030823-8081.RES

Vial: 38
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-030823-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Fri Mar 10 11:19:35 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\040323ICAL\0403F005.D

Vial: 102

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 02:51 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 .2 PPB GCPS9-24B @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 14:09:40 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 14:09:00 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.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...	6.077	5.473	55858616	31243746	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachlo...	9.103	7.427	167849	98828	0.221	0.207
28) s	Decachlor...	20.160	18.397	104716	82088	0.239m	0.229
Target Compounds							
3)	alpha-BHC	10.043	8.790	182383	103587	0.206	0.245
4)	Hexachlor...	10.223	8.550	213810	123743	0.233	0.225
5)	beta-BHC	11.467	10.207	112126	59594	0.144	0.279 #
6)	gamma-BHC...	10.793	9.617	184534	120163	0.201	0.222
7)	delta-BHC	11.963	10.793	180092	101509	0.251	0.292
8)	Heptachlor	12.053	10.373	180870	105474	0.152	0.262 #
9)	Aldrin	12.667	11.033	175626	101067	0.277	0.257
10)	Isodrin	13.290	11.880	115065	69243	0.227	0.215
11)	Heptachlo...	13.510	12.140	185774	103180	0.182	0.274 #
12)	gamma-Chl...	14.113	12.567	165276	97987	0.165	0.258 #
13)	Endosulfan I	14.267	12.823	132495	89725	0.254	0.263
14)	alpha-Chl...	14.203	12.740	141277	96988	0.158	0.255 #
15)	Dieldrin	14.753	13.343	182790	106694	0.254	0.217
16)	4,4'-DDE	14.507	13.143	152950	93312	0.272	0.258
17)	Endrin	15.183	13.907	138662	78964	0.202	0.260 #
18)	Endosulfa...	15.693	14.407	130929	85411	0.250	0.190
19)	4,4'-DDD	15.473	14.177	144033	71230	0.257	0.262
20)	Endrin Al...	15.903	14.827	111609	76317	0.166	0.182
21)	Endosulfa...	16.443	15.200	143341	95004	0.206	0.203
22)	4,4'-DDT	16.050	14.670	126281	95294	0.287	0.288
23)	Endrin Ke...	17.250	16.303	145547	136353	0.244	0.262
24)	Methoxychlor	16.897	15.923	65604	43616	0.467m	0.345 #

SemiQuant Compounds - Not Calibrated on this Instrument

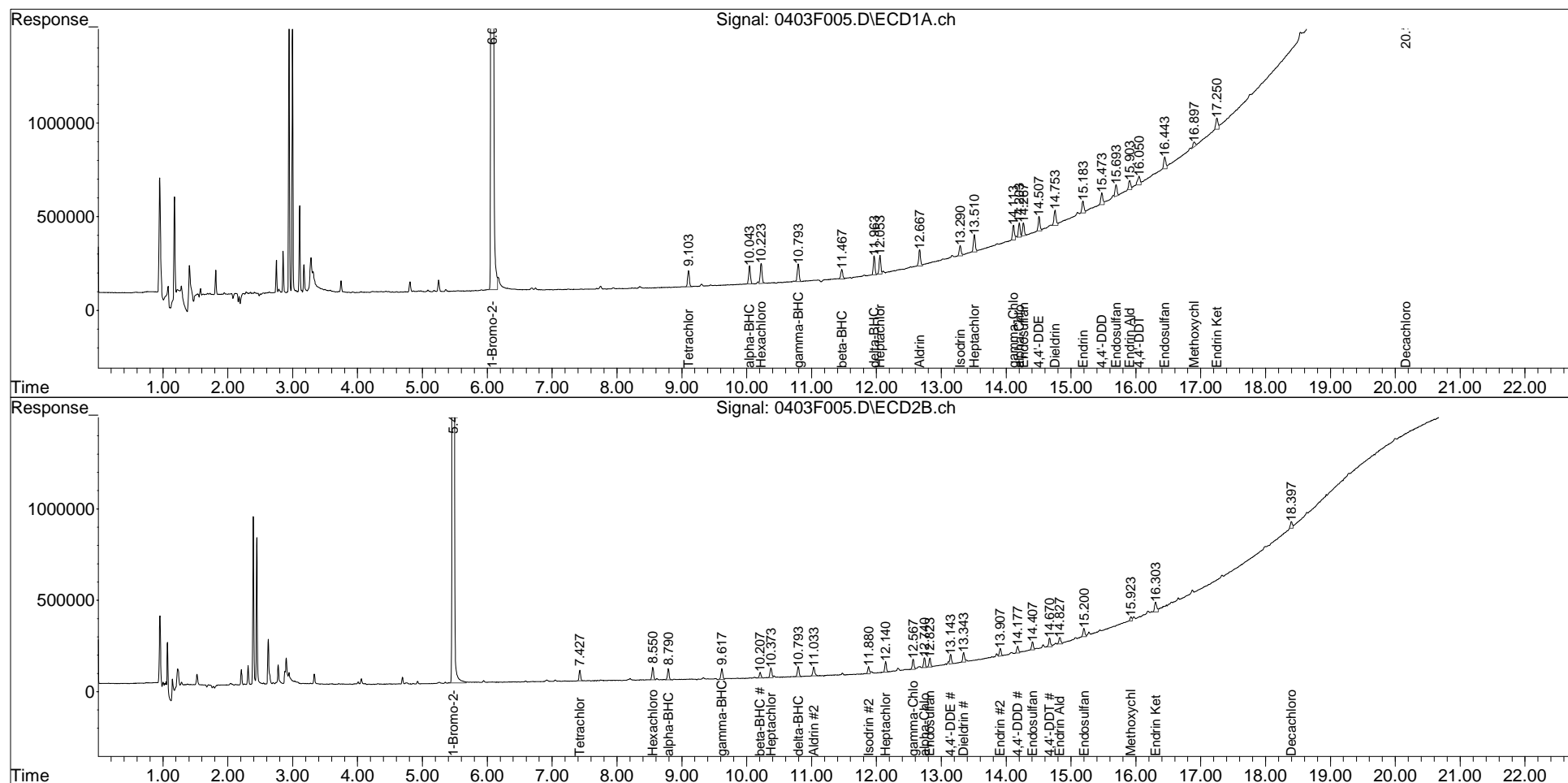
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\040323ICAL\0403F005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Apr 2023 02:51 pm
Sample : 8081 .2 PPB GCPS9-24B @50X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 04 14:09:40 2023
Quant Results File: GC38-040323-8081.RES

Vial: 102
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 14:09:00 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\040323ICAL\0403F005.D

Vial: 102

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 02:51 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 .2 PPB GCPS9-24B @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:50:20 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:49:26 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

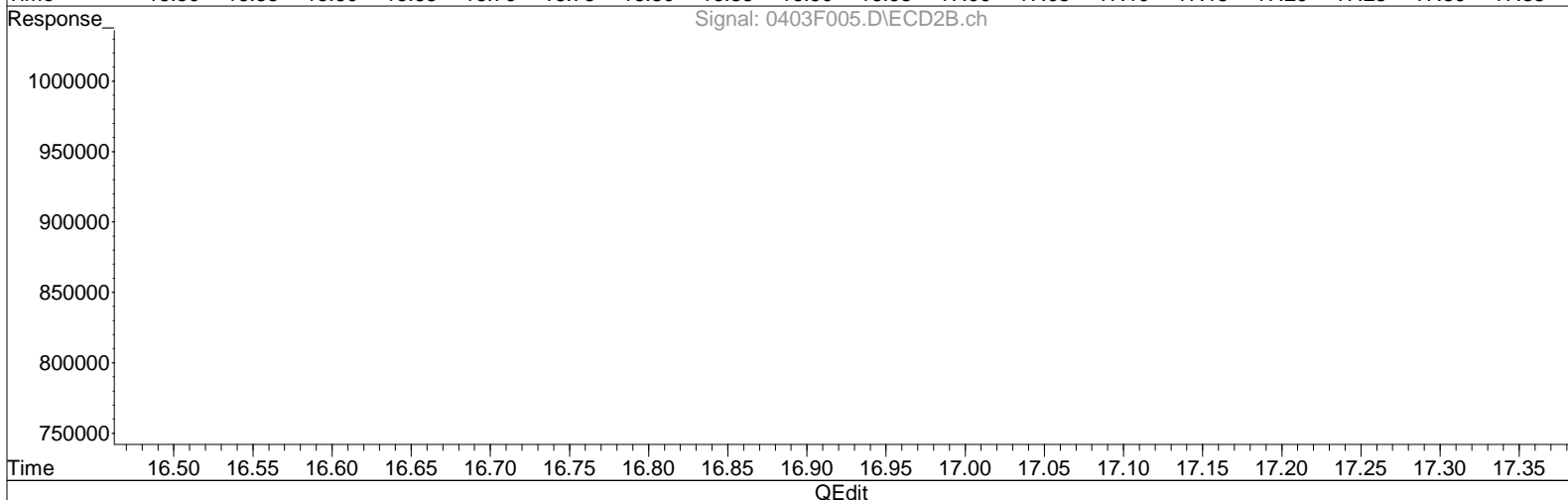
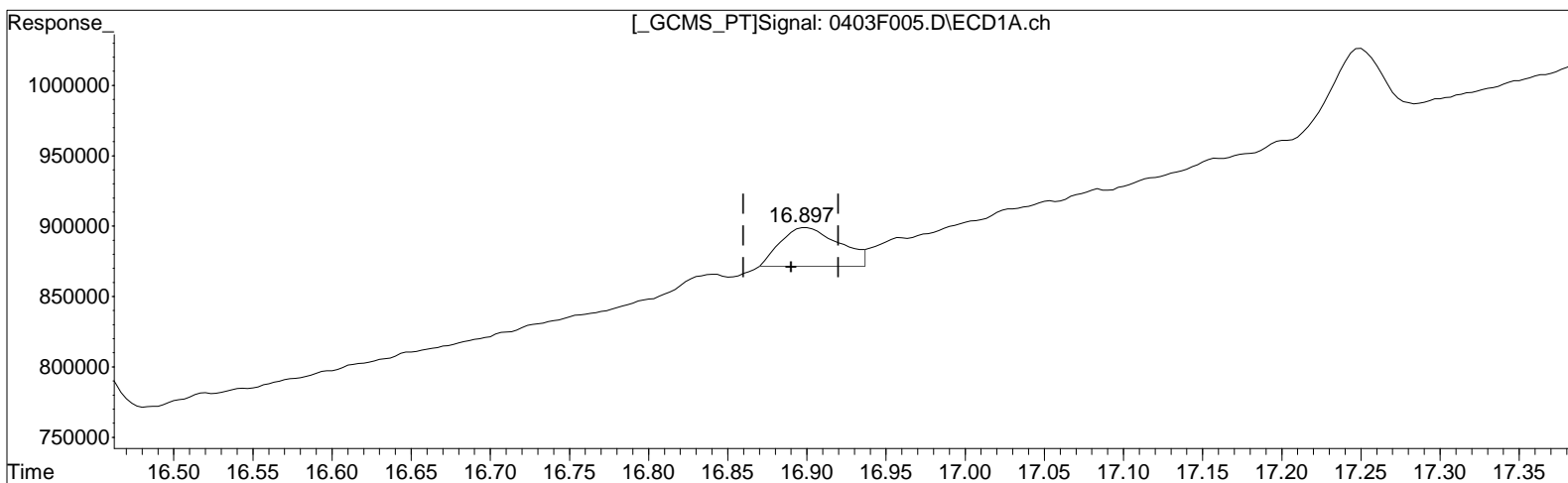
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(24) Methoxychlor

16.897min 0.424 ug/L

response 73312

Manual Integration:

Before

04/04/23

(24) Methoxychlor #2

15.923min 0.291 ug/L

response 43616

Data File : J:\GC38\DATA\040323ICAL\0403F005.D

Vial: 102

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 02:51 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 .2 PPB GCPS9-24B @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:50:20 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:49:26 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

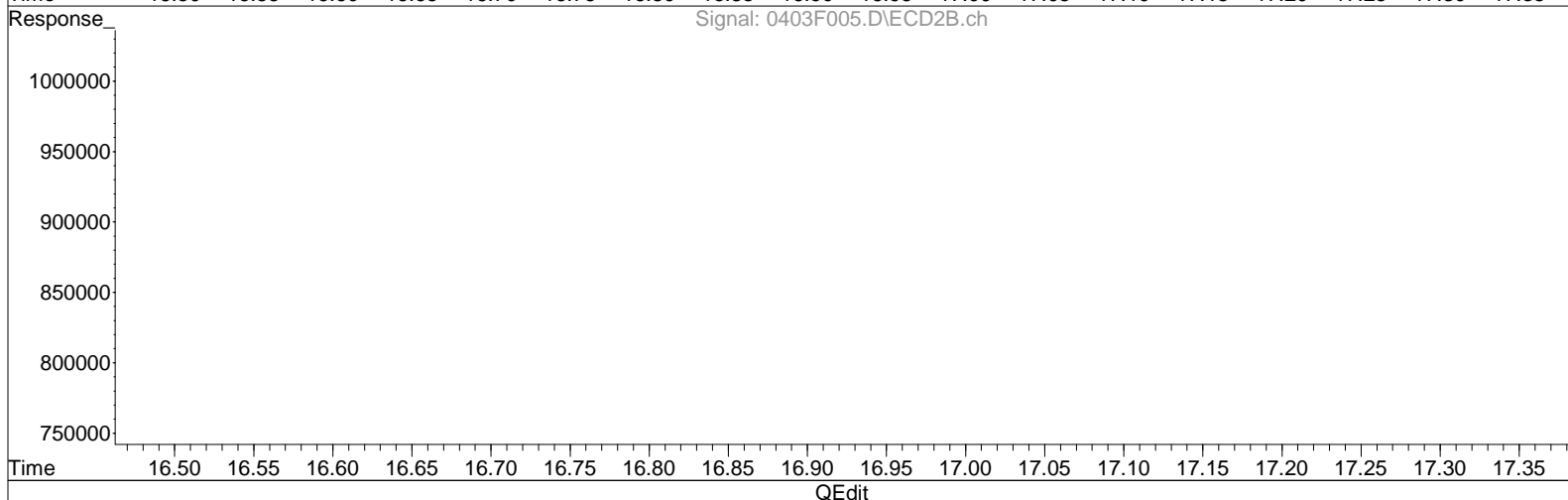
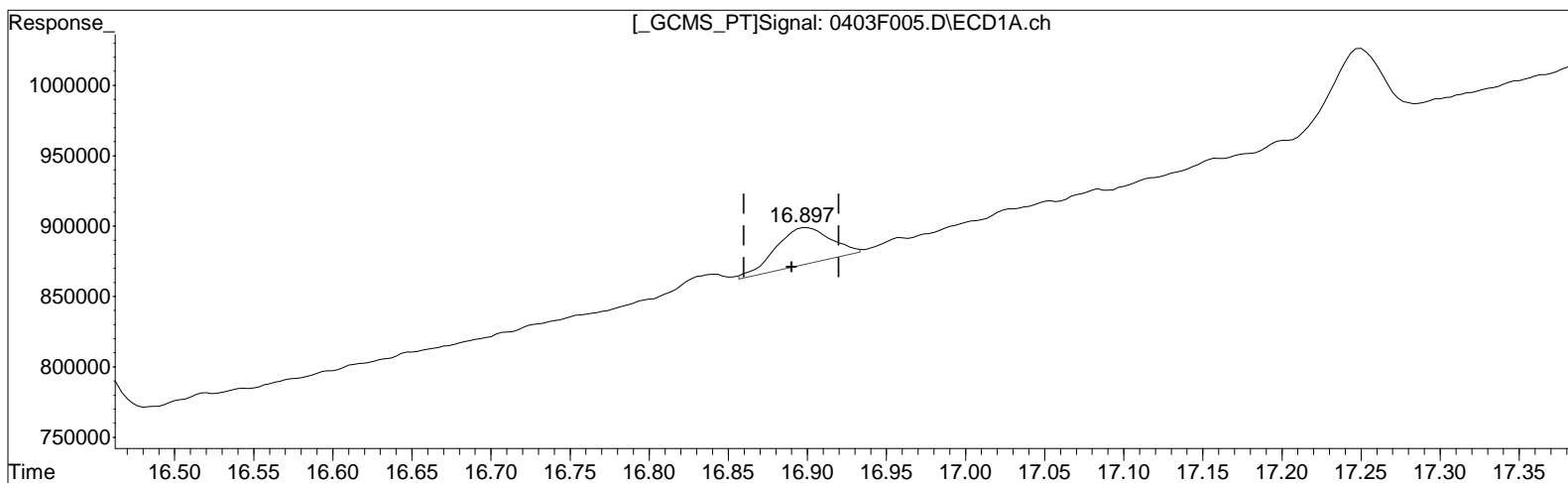
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(24) Methoxychlor

16.897min 0.379 ug/L m

response 65604

(24) Methoxychlor #2

15.923min 0.291 ug/L

response 43616

Manual Integration:

After

Baseline Correction

04/04/23

Data File : J:\GC38\DATA\040323ICAL\0403F005.D

Vial: 102

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 02:51 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 .2 PPB GCPS9-24B @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:49:43 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:49:26 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

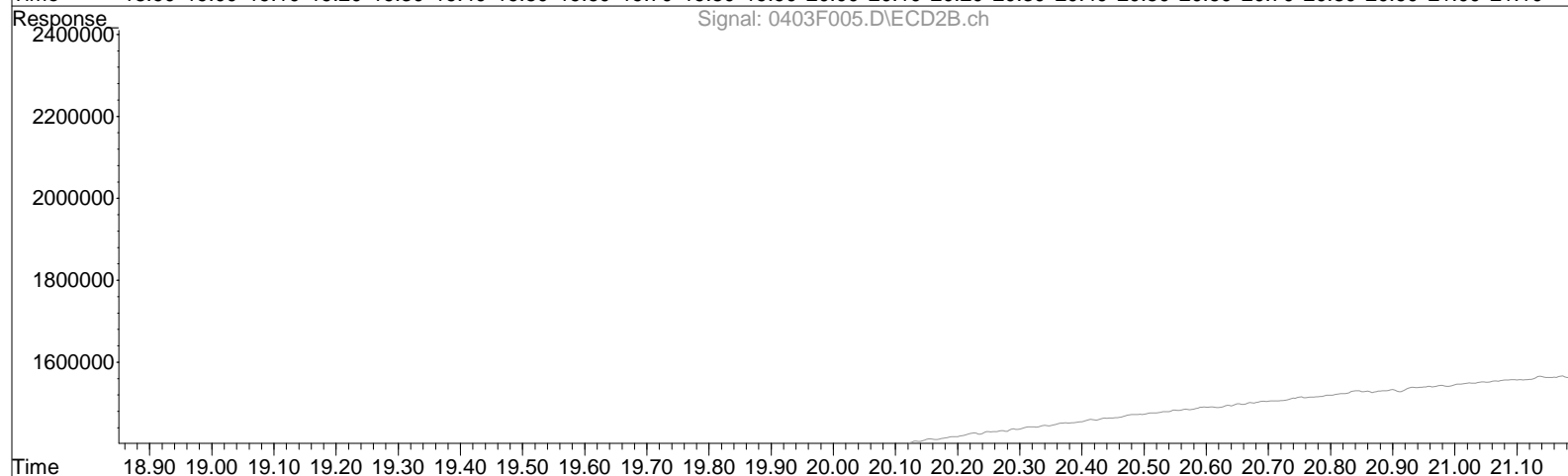
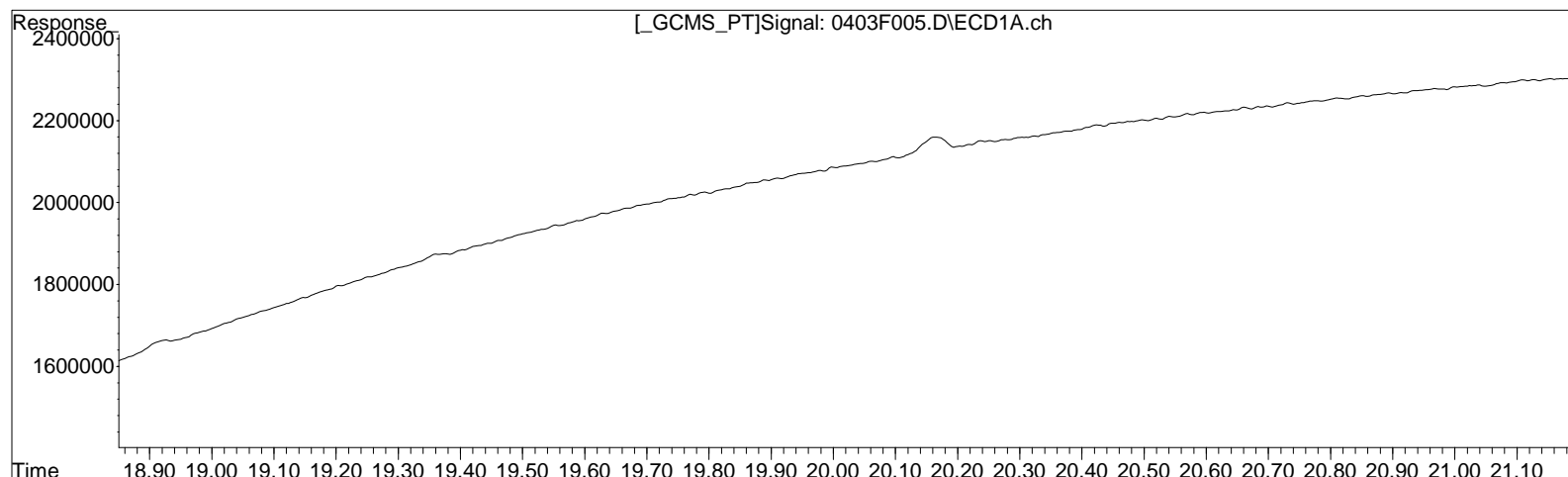
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(28) Decachlorobiphenyl (s)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

04/04/23

(28) Decachlorobiphenyl #2 (s)

18.397min 0.227 ug/L

response 82088

(+) = Expected Retention Time

Data File : J:\GC38\DATA\040323ICAL\0403F005.D

Vial: 102

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 02:51 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 .2 PPB GCPS9-24B @50X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:49:43 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:49:26 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

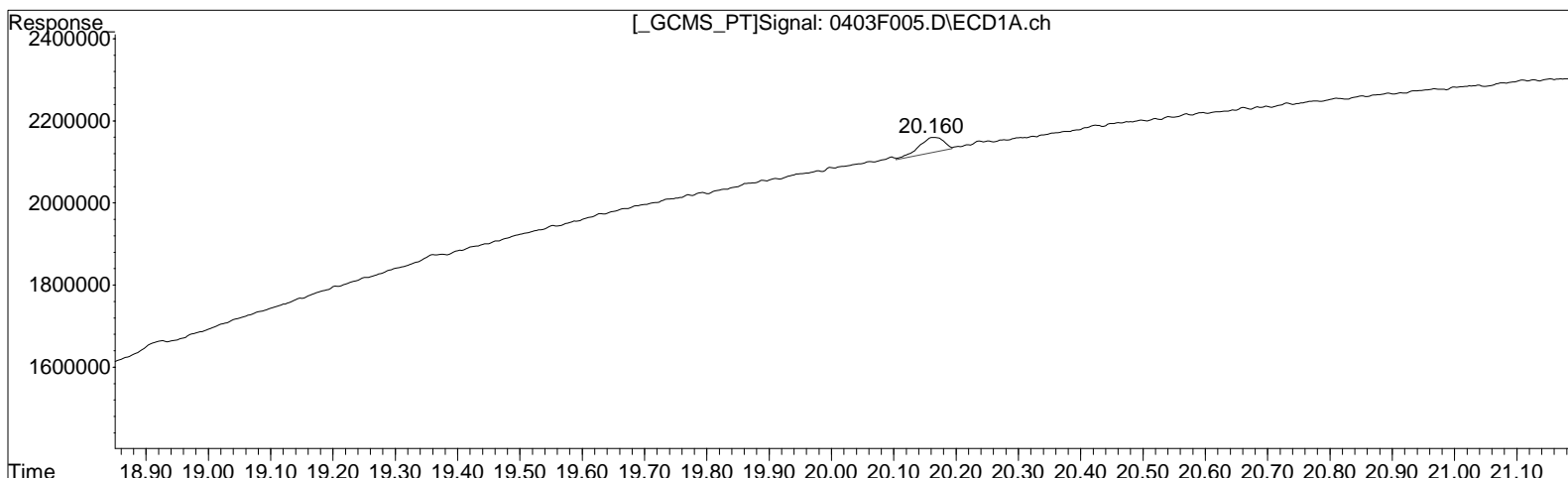
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(28) Decachlorobiphenyl (s)

20.160min 0.223 ug/L m

response 104716

(28) Decachlorobiphenyl #2 (s)

18.397min 0.227 ug/L

response 82088

Manual Integration:

After

Missed Peak

04/04/23

Data File : J:\GC38\DATA\040323ICAL\0403F006.D Vial: 103
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 03 Apr 2023 03:36 pm Operator: CORP\ALKLS.NoUser
 Sample : 8081 .5 PPB GCPS9-24B @20X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 04 14:09:50 2023
 Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Tue Apr 04 14:09:00 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.077	5.473	57049330	31837859	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachlo...	9.103	7.427	408700	251359	0.526	0.516
28) s	Decachlor...	20.163	18.397	211953	198985	0.473m	0.544
Target Compounds							
3)	alpha-BHC	10.047	8.793	365991	198180	0.469	0.460
4)	Hexachlor...	10.223	8.553	517742	299737	0.553	0.534
5)	beta-BHC	11.467	10.207	187521	100992	0.379	0.464
6)	gamma-BHC...	10.793	9.617	334113	217614	0.448	0.481
7)	delta-BHC	11.967	10.797	300285	167705	0.455	0.471
8)	Heptachlor	12.057	10.373	358661	197316	0.444	0.481
9)	Aldrin	12.667	11.033	315744	194048	0.487	0.485
10)	Isodrin	13.293	11.880	267935	159678	0.518	0.487m
11)	Heptachlo...	13.510	12.143	324910	181340	0.433	0.472
12)	gamma-Chl...	14.113	12.567	311765	185952	0.436	0.480
13)	Endosulfan I	14.267	12.823	254827	165531	0.478	0.476
14)	alpha-Chl...	14.203	12.740	295780	181058	0.447	0.468
15)	Dieldrin	14.753	13.343	280967	175355	0.444	0.419
16)	4,4'-DDE	14.507	13.143	275477	163468	0.479	0.444
17)	Endrin	15.187	13.910	243701	136334	0.441	0.440
18)	Endosulfa...	15.697	14.407	206657	159821	0.416	0.432
19)	4,4'-DDD	15.477	14.177	222189	133131	0.446	0.481
20)	Endrin Al...	15.903	14.827	217466	142070	0.450	0.442
21)	Endosulfa...	16.447	15.200	267312	172917	0.489	0.455
22)	4,4'-DDT	16.050	14.670	148635	150064	0.352	0.489 #
23)	Endrin Ke...	17.250	16.303	246590	198678	0.469	0.446
24)	Methoxychlor	16.890	15.927	67460	71783	0.470m	0.557

SemiQuant Compounds - Not Calibrated on this Instrument

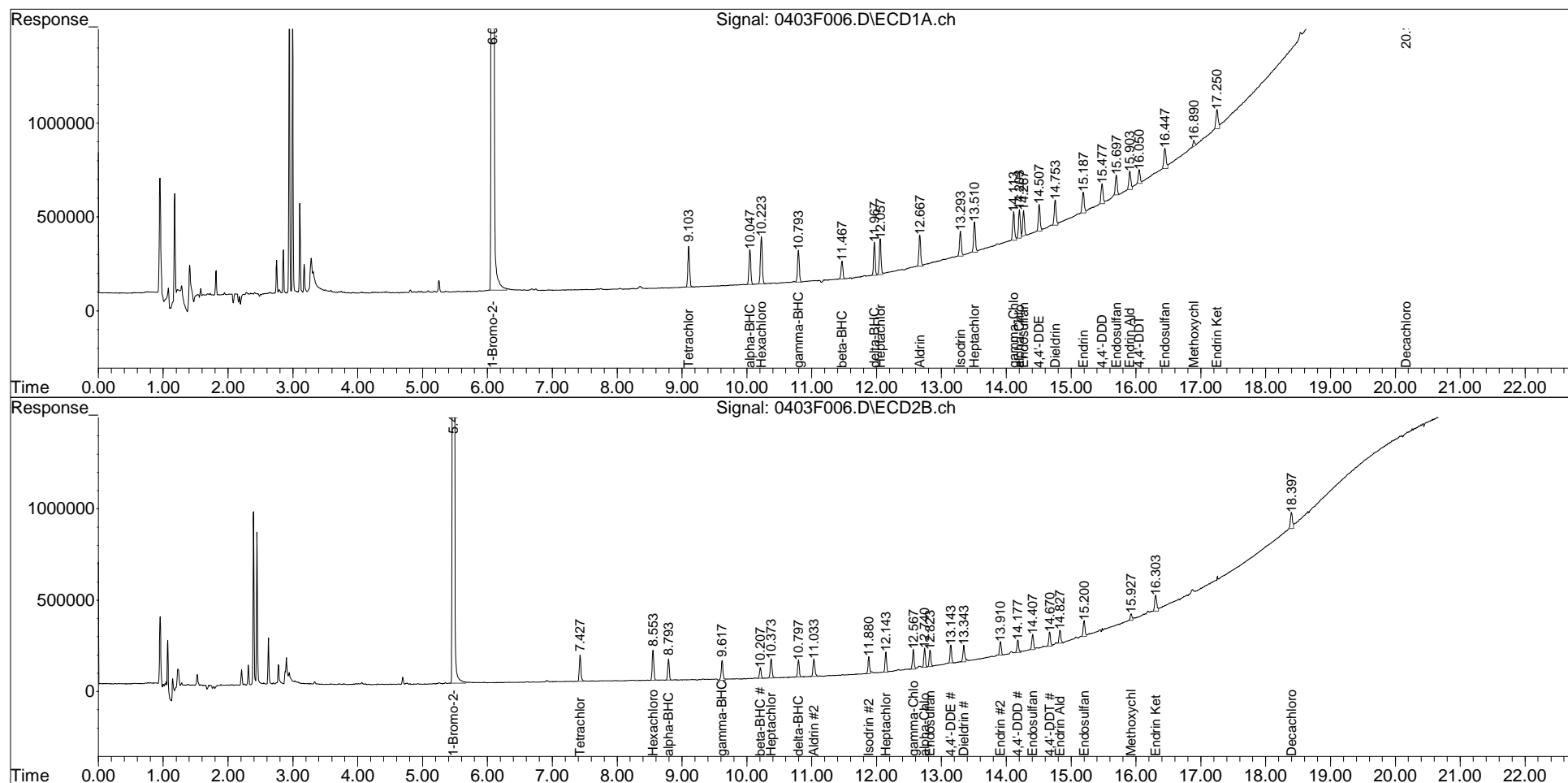
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\040323ICAL\0403F006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Apr 2023 03:36 pm
Sample : 8081 .5 PPB GCPS9-24B @20X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 04 14:09:50 2023
Quant Results File: GC38-040323-8081.RES

Vial: 103
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 14:09:00 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\040323ICAL\0403F006.D

Vial: 103

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 03:36 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 .5 PPB GCPS9-24B @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:51:16 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:51:08 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

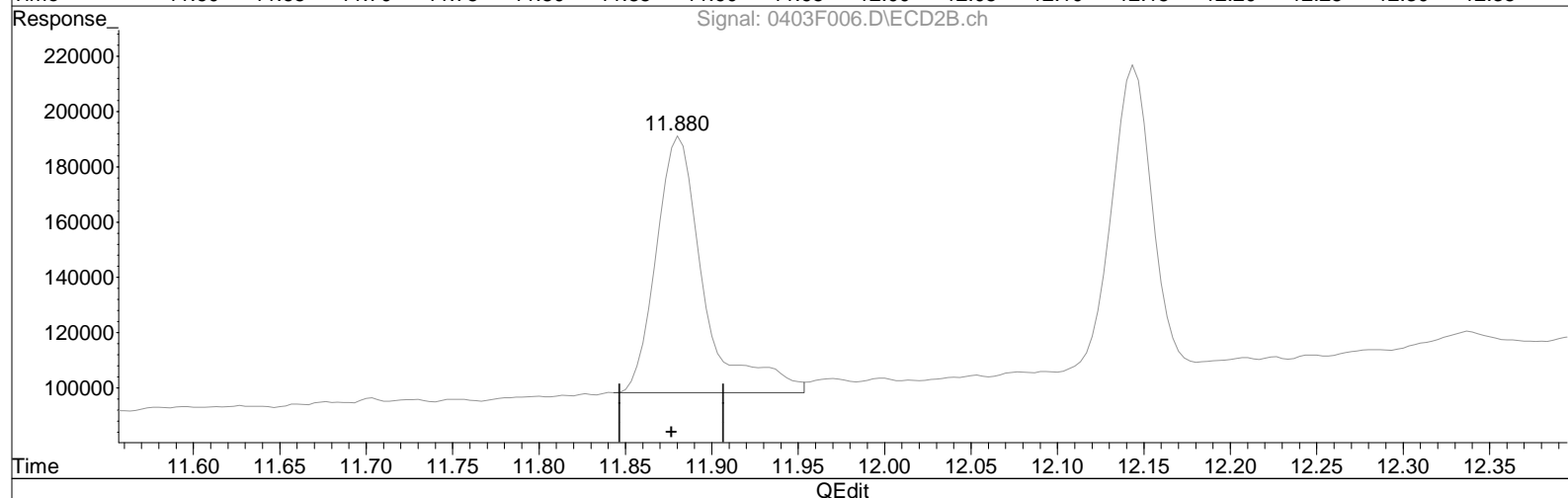
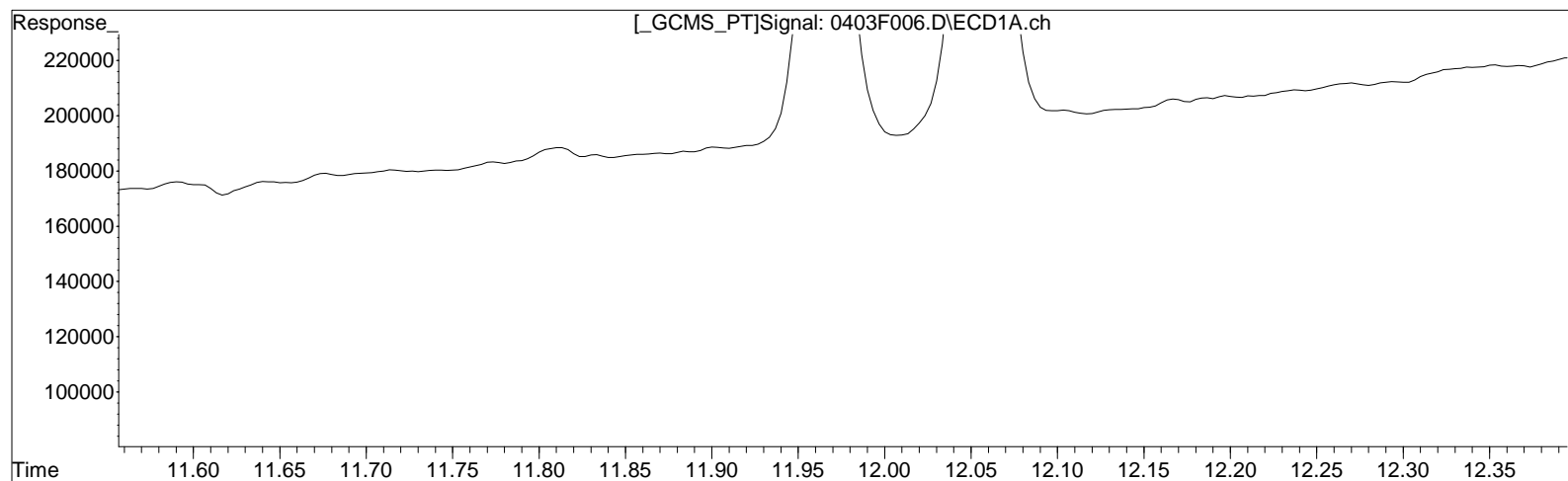
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(10) Isodrin

13.293min 0.485 ug/L

response 267935

Manual Integration:

Before

04/04/23

(10) Isodrin #2

11.880min 0.520 ug/L

response 178072

(+) = Expected Retention Time

Data File : J:\GC38\DATA\040323ICAL\0403F006.D

Vial: 103

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 03:36 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 .5 PPB GCPS9-24B @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:51:16 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:51:08 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

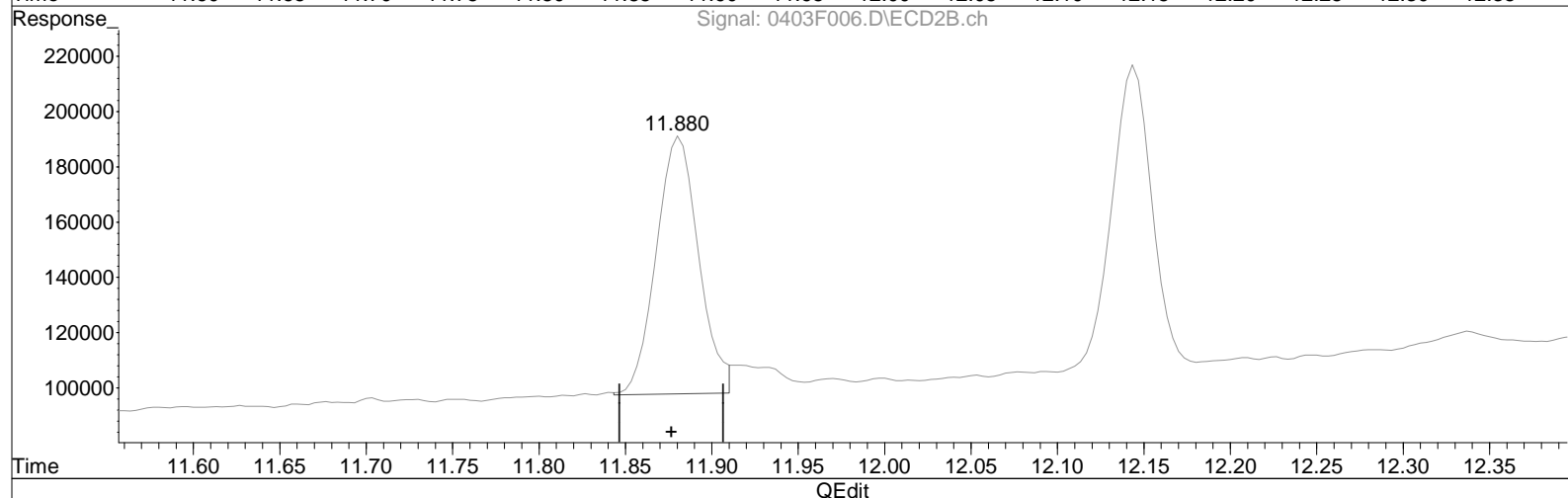
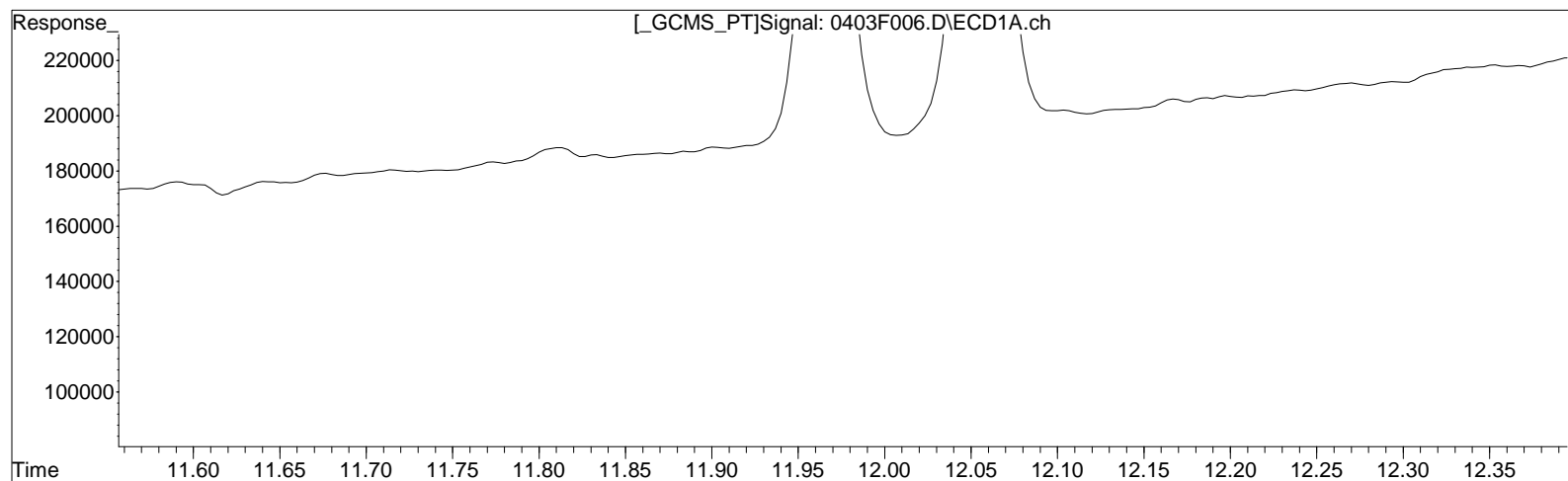
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(10) Isodrin

13.293min 0.485 ug/L

response 267935

Manual Integration:

After

Baseline Correction

04/04/23

(10) Isodrin #2

11.880min 0.467 ug/L m

response 159678

Data File : J:\GC38\DATA\040323ICAL\0403F006.D

Vial: 103

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 03:36 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 .5 PPB GCPS9-24B @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:51:16 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:51:08 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

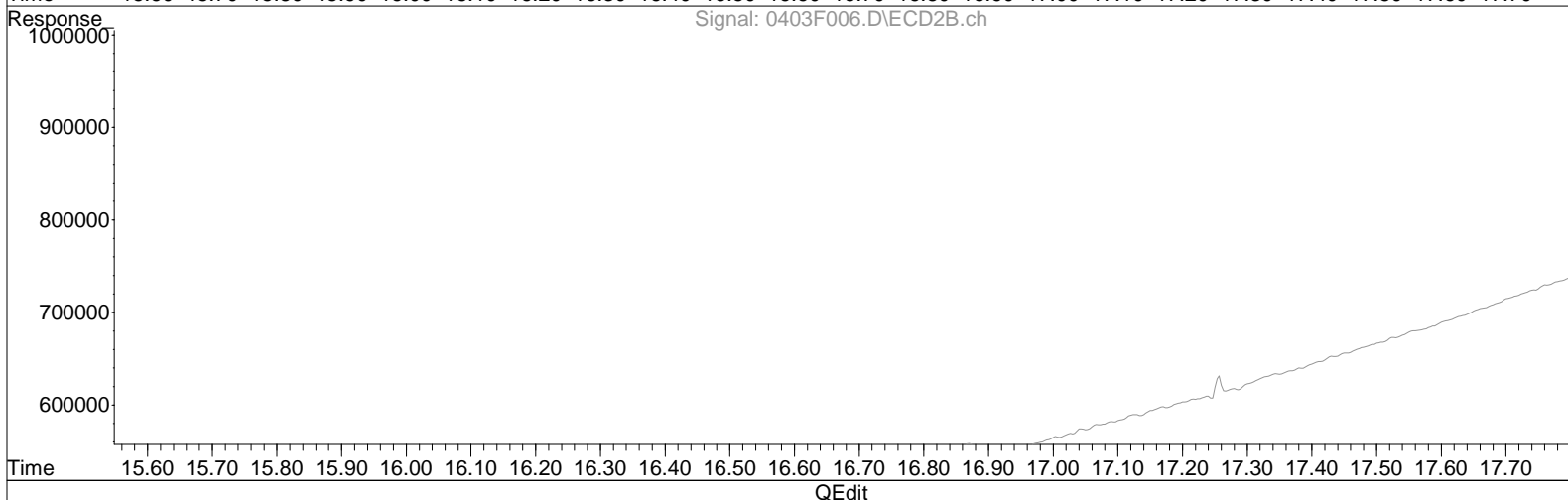
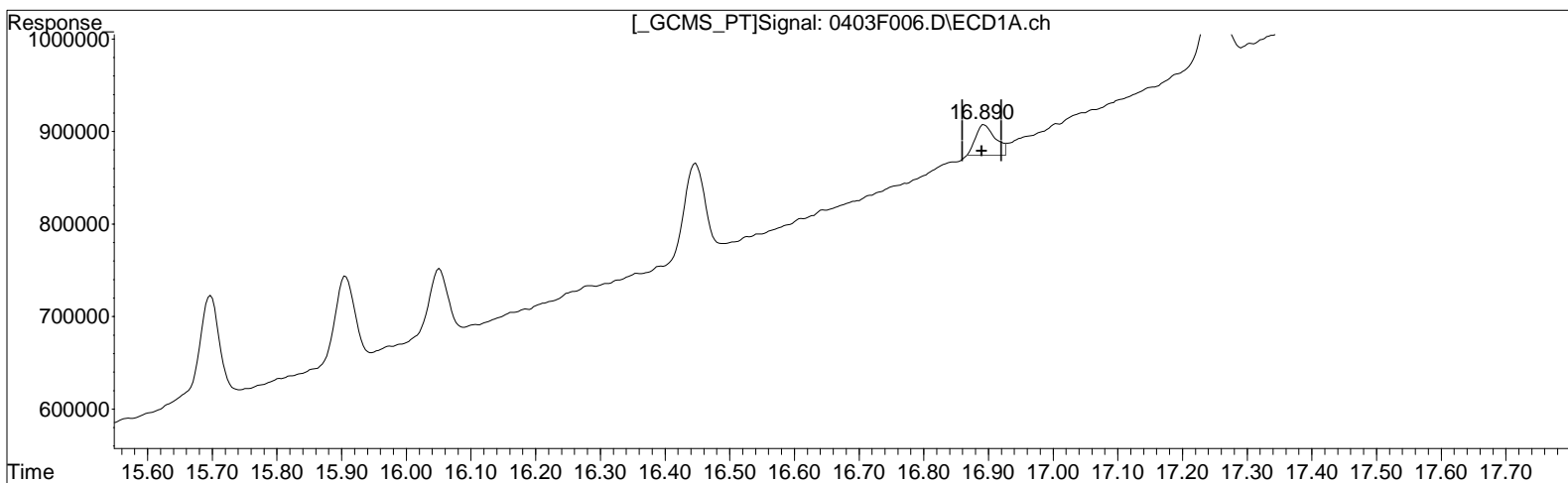
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(24) Methoxychlor

16.890min 0.388 ug/L

response 72510

Manual Integration:

Before

04/04/23

(24) Methoxychlor #2

15.927min 0.438 ug/L

response 71783

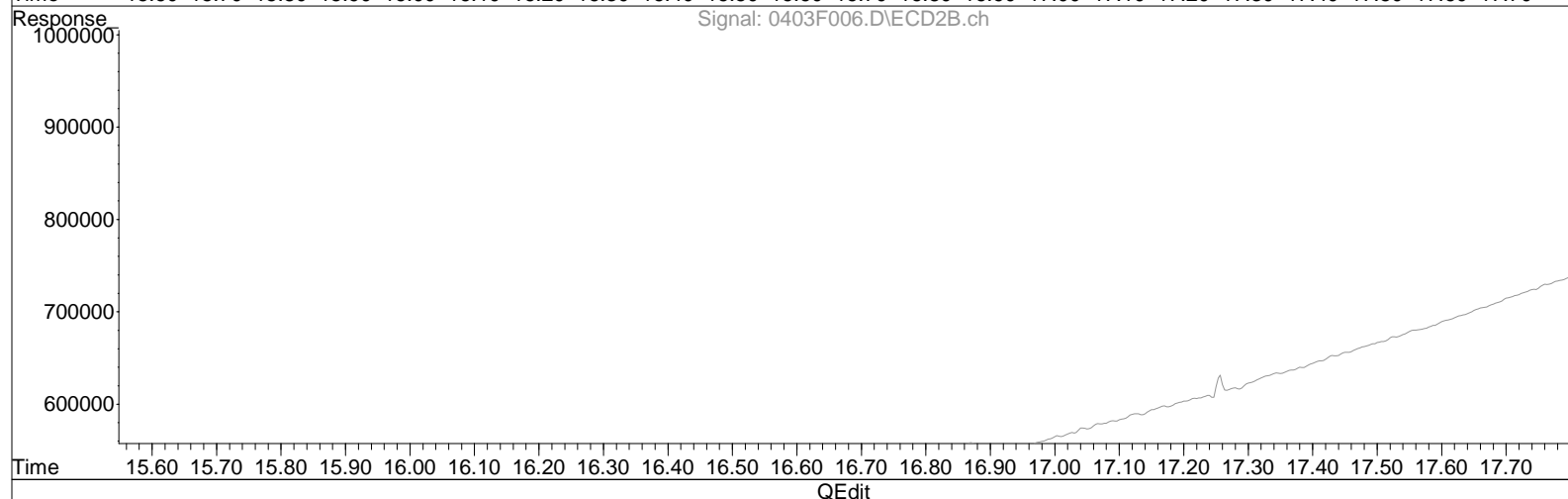
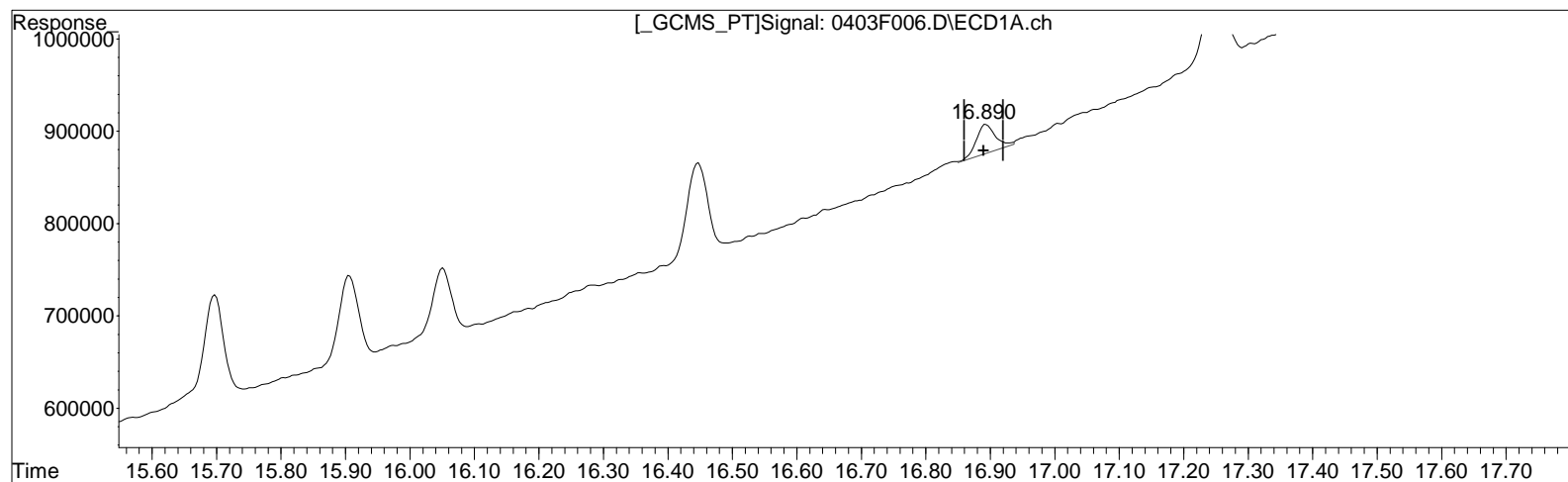
(+) = Expected Retention Time

Data File : J:\GC38\DATA\040323ICAL\0403F006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Apr 2023 03:36 pm
Sample : 8081 .5 PPB GCPS9-24B @20X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 04 09:51:16 2023
Quant Results File: GC38-040323-8081.RES

Vial: 103
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 09:51:08 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



QEdit

(24) Methoxychlor
16.890min 0.359 ug/L m
response 67460

(24) Methoxychlor #2
15.927min 0.438 ug/L
response 71783

Manual Integration:

After

Baseline Correction

04/04/23

Data File : J:\GC38\DATA\040323ICAL\0403F006.D

Vial: 103

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 03:36 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 .5 PPB GCPS9-24B @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:51:16 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:51:08 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

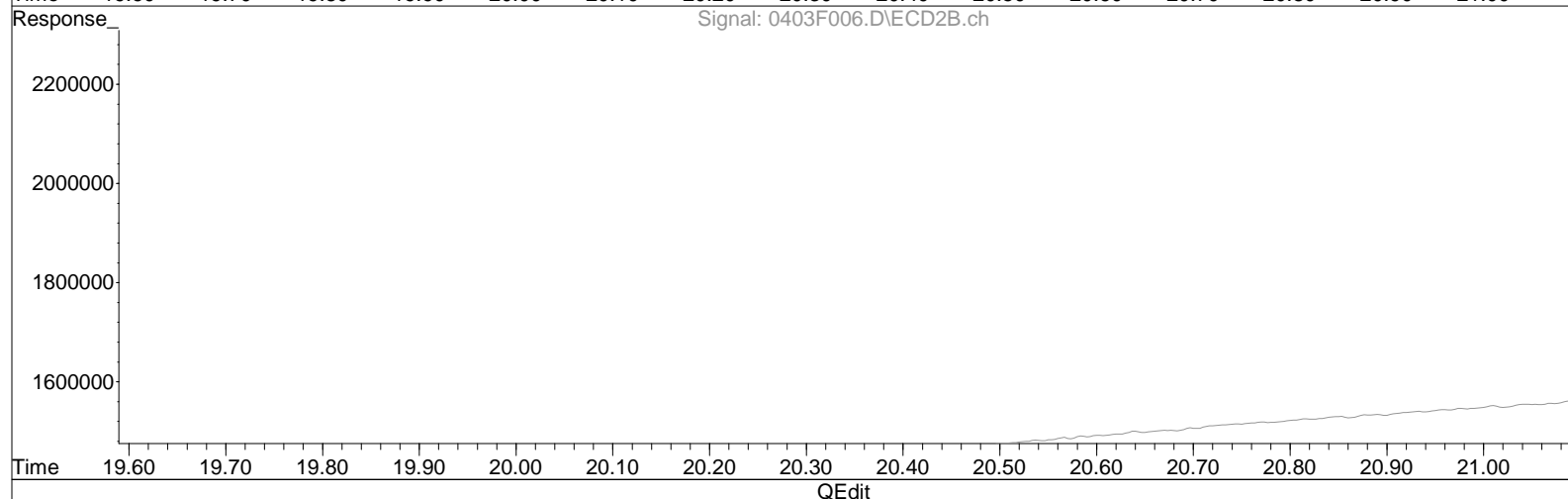
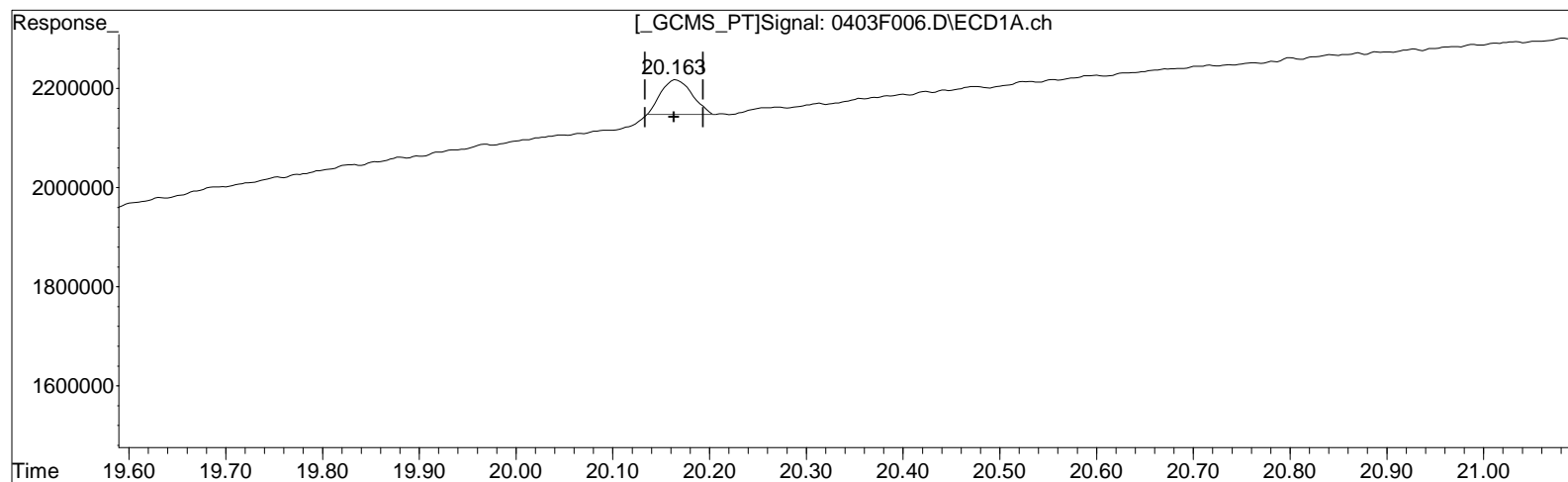
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(28) Decachlorobiphenyl (s)

20.163min 0.321 ug/L

response 154941

Manual Integration:

Before

04/04/23

(28) Decachlorobiphenyl #2 (s)

18.397min 0.529 ug/L

response 198985

Data File : J:\GC38\DATA\040323ICAL\0403F006.D

Vial: 103

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 03:36 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 .5 PPB GCPS9-24B @20X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:51:16 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:51:08 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

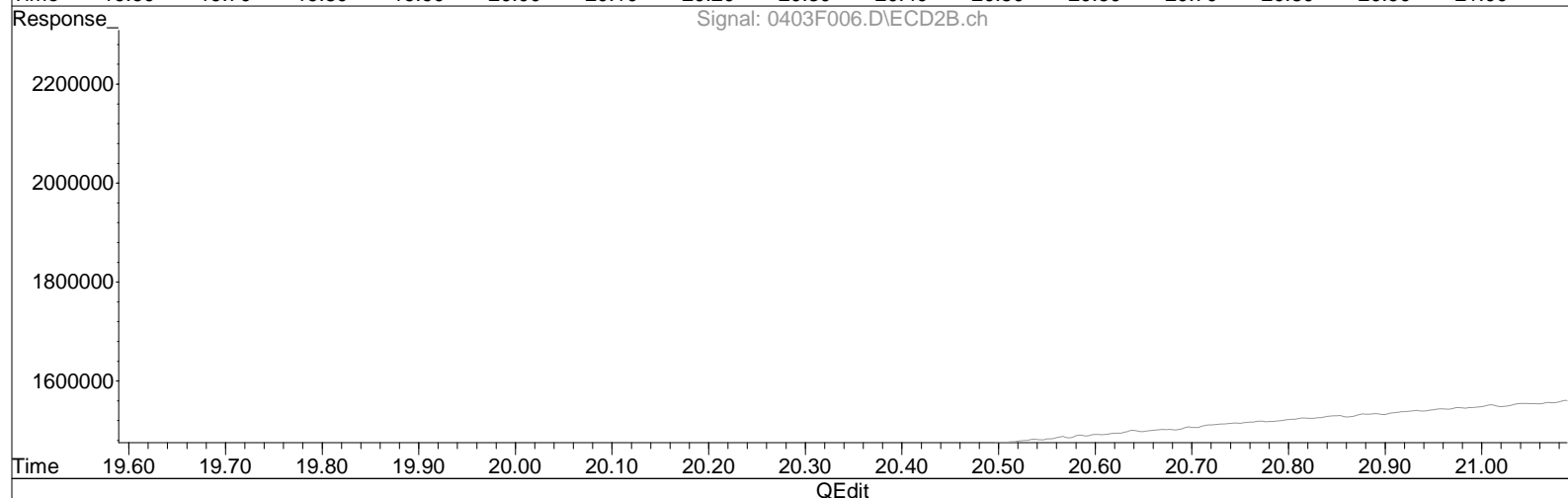
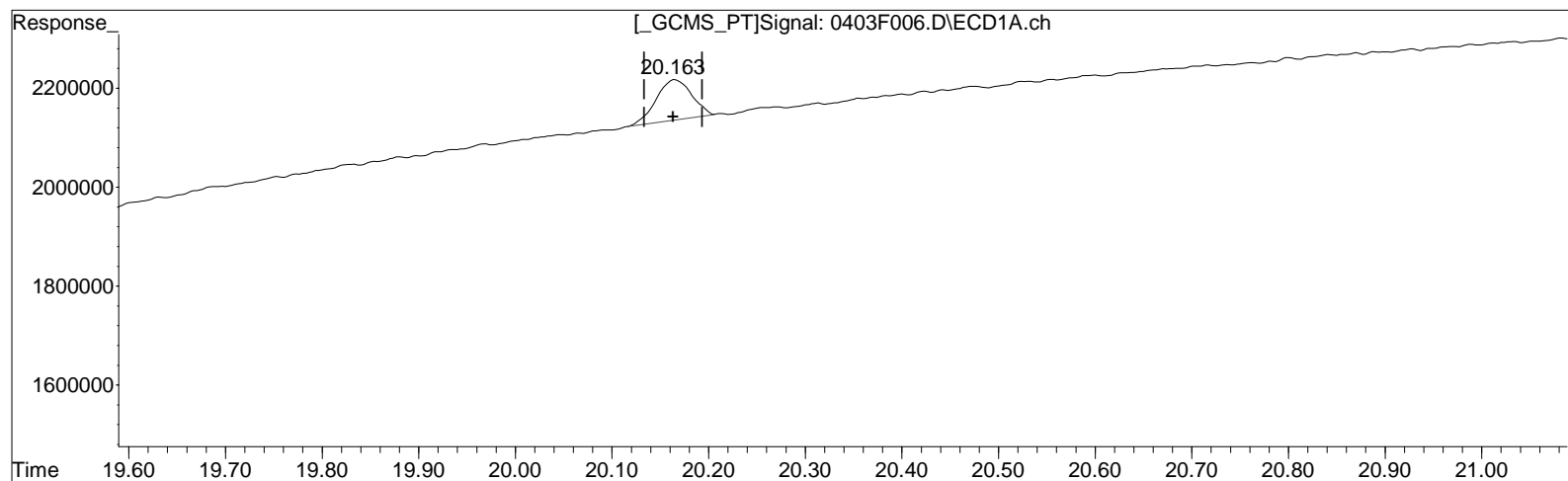
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(28) Decachlorobiphenyl (s)

20.163min 0.439 ug/L m

response 211953

(28) Decachlorobiphenyl #2 (s)

18.397min 0.529 ug/L

response 198985

Manual Integration:

After

Baseline Correction

04/04/23

Data File : J:\GC38\DATA\040323ICAL\0403F007.D Vial: 104
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 03 Apr 2023 04:21 pm Operator: CORP\ALKLS.NoUser
 Sample : 8081 1 PPB GCPS9-24B @10X Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 04 14:09:59 2023
 Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Tue Apr 04 14:09:00 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.077	5.473	56179081	31427349	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachlo...	9.103	7.427	797873	495665	1.043	1.032
28) s	Decachlor...	20.163	18.397	436141	370341	0.988m	1.026
Target Compounds							
3)	alpha-BHC	10.047	8.790	728653	402111	1.017	0.945
4)	Hexachlor...	10.223	8.553	978215	576663	1.062	1.040
5)	beta-BHC	11.467	10.207	373728	205826	0.996	0.957
6)	gamma-BHC...	10.793	9.617	649542	401140	1.001	0.994
7)	delta-BHC	11.963	10.793	598094	343530	0.994	0.975
8)	Heptachlor	12.053	10.373	680892	387127	1.003	0.957
9)	Aldrin	12.667	11.033	620066	372727	0.972	0.944
10)	Isodrin	13.290	11.880	519255	335124	1.019	1.036
11)	Heptachlo...	13.510	12.143	615776	352079	0.988	0.928
12)	gamma-Chl...	14.113	12.567	606318	362434	1.012	0.948
13)	Endosulfan I	14.267	12.823	516661	325021	0.985	0.947
14)	alpha-Chl...	14.203	12.740	582810	367661	1.010	0.962
15)	Dieldrin	14.753	13.343	545865	367108	0.993	1.014
16)	4,4'-DDE	14.507	13.143	559093	351451	0.987	0.967
17)	Endrin	15.187	13.910	489803	280989	1.035	0.919
18)	Endosulfa...	15.697	14.407	453968	320878	0.993	0.981
19)	4,4'-DDD	15.477	14.177	437466	253712	1.004	0.928
20)	Endrin Al...	15.903	14.827	412858	272701	1.004	0.987
21)	Endosulfa...	16.447	15.200	473866	316842	0.991	0.945
22)	4,4'-DDT	16.050	14.667	307116	270437	0.886	0.962
23)	Endrin Ke...	17.247	16.303	481166	369617	1.023	0.988
24)	Methoxychlor	16.890	15.923	134936	126767	0.955m	0.997

SemiQuant Compounds - Not Calibrated on this Instrument

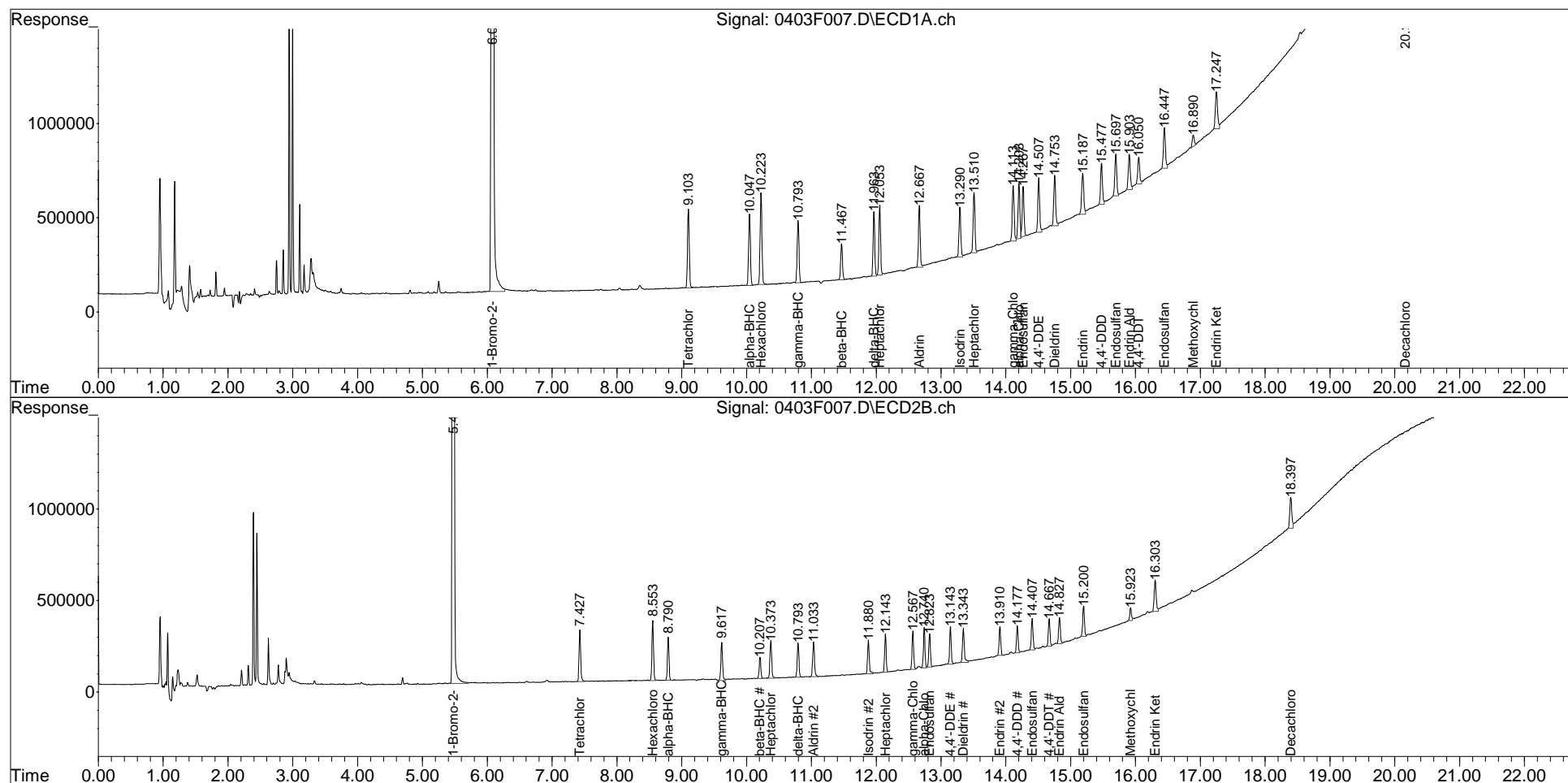
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\040323ICAL\0403F007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Apr 2023 04:21 pm
Sample : 8081 1 PPB GCPS9-24B @10X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 04 14:09:59 2023
Quant Results File: GC38-040323-8081.RES

Vial: 104
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 14:09:00 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\040323ICAL\0403F007.D

Vial: 104

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 04:21 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 1 PPB GCPS9-24B @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:53:02 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:52:26 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

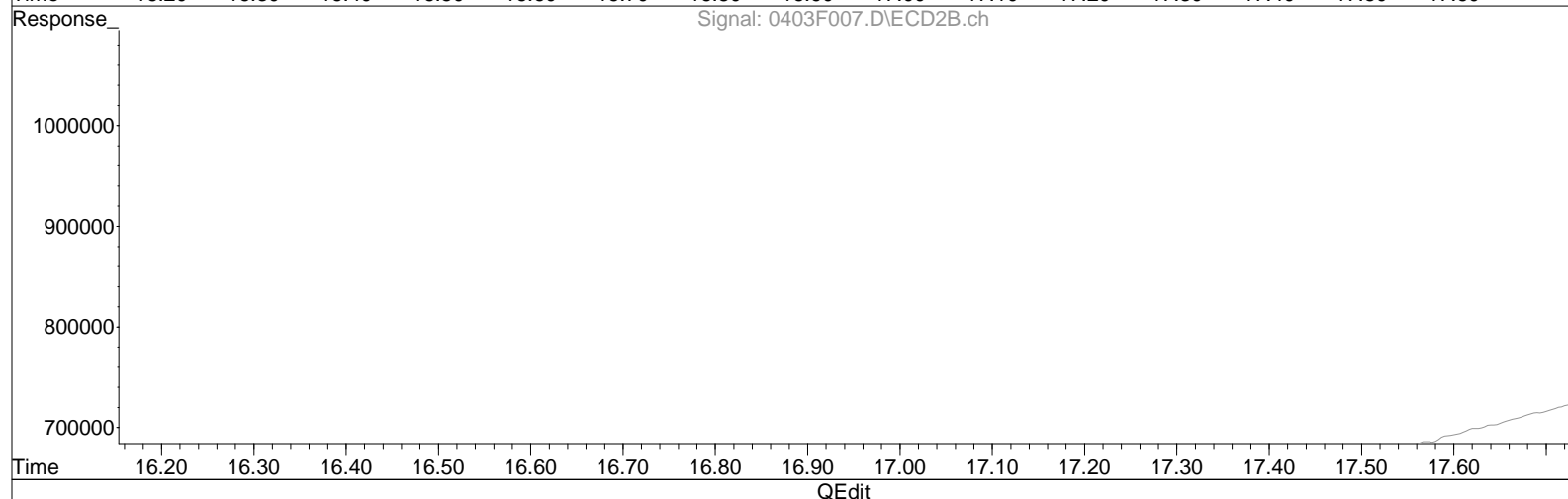
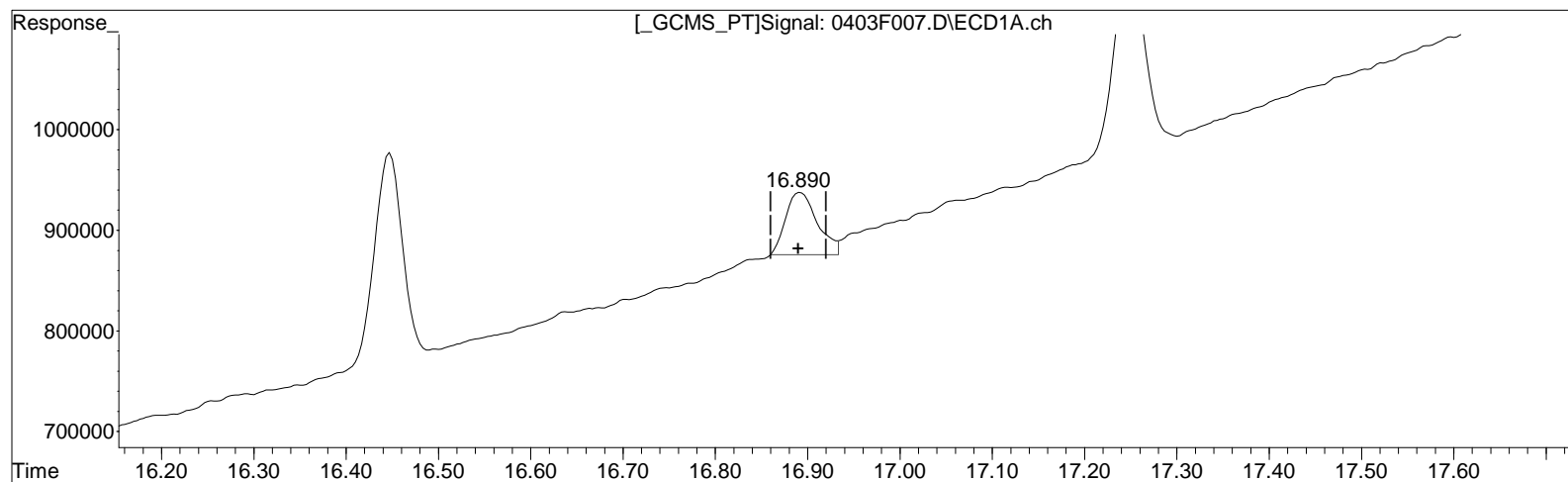
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(24) Methoxychlor

16.890min 0.916 ug/L

response 149608

Manual Integration:

Before

04/04/23

(24) Methoxychlor #2

15.923min 0.844 ug/L

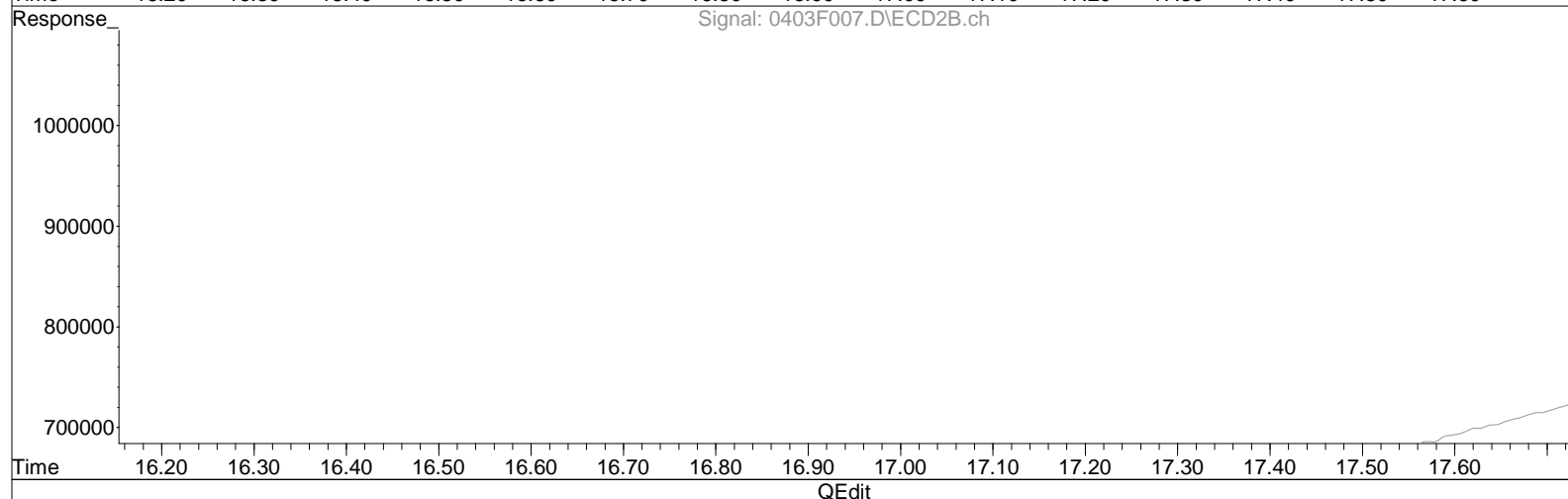
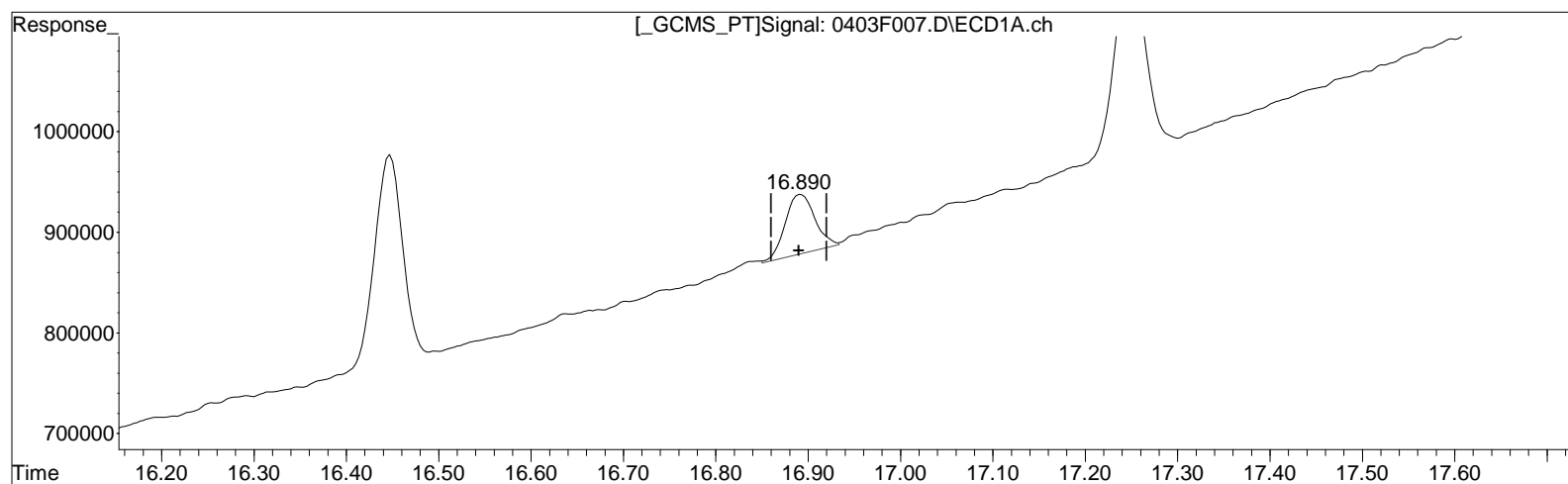
response 126767

(+) = Expected Retention Time

Data File : J:\GC38\DATA\040323ICAL\0403F007.D Vial: 104
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Apr 2023 04:21 pm Operator: CORP\ALKLS.NoUser
Sample : 8081 1 PPB GCPS9-24B @10X Inst : GC38
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 04 09:53:02 2023
Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 09:52:26 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB Signal #2 Phase: DB-35MS
Signal #1 Info : 0.32mm Signal #2 Info : 0.32mm



QEdit

(24) Methoxychlor
16.890min 0.831 ug/L m
response 134936

(24) Methoxychlor #2
15.923min 0.844 ug/L
response 126767

Manual Integration:

After

Baseline Correction

04/04/23

Data File : J:\GC38\DATA\040323ICAL\0403F007.D

Vial: 104

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 04:21 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 1 PPB GCPS9-24B @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:52:33 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:52:26 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

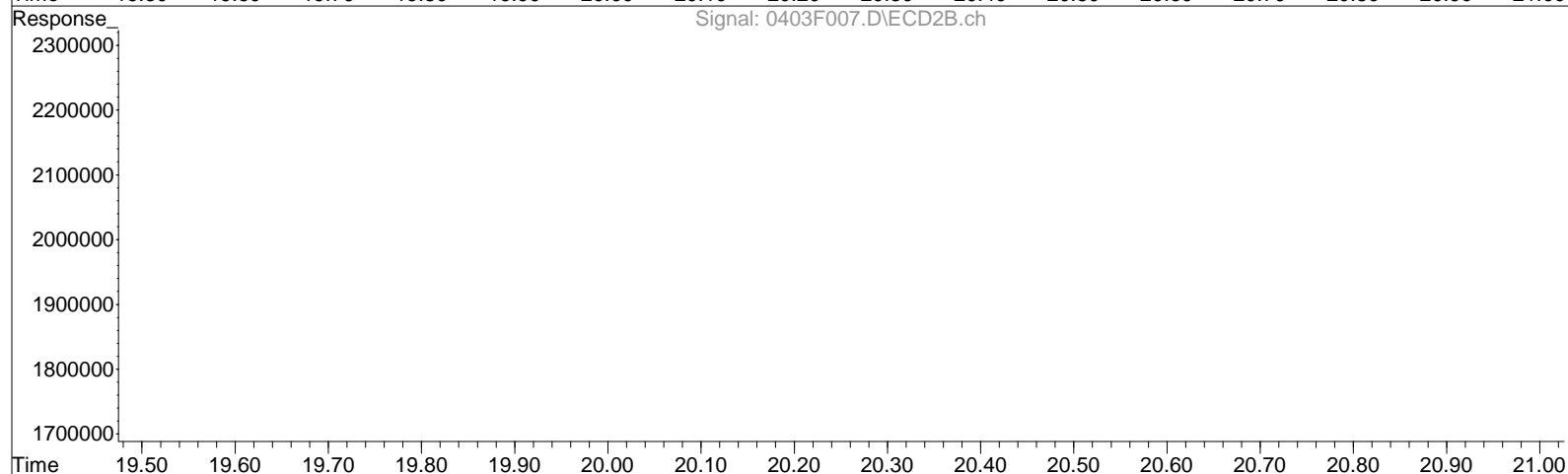
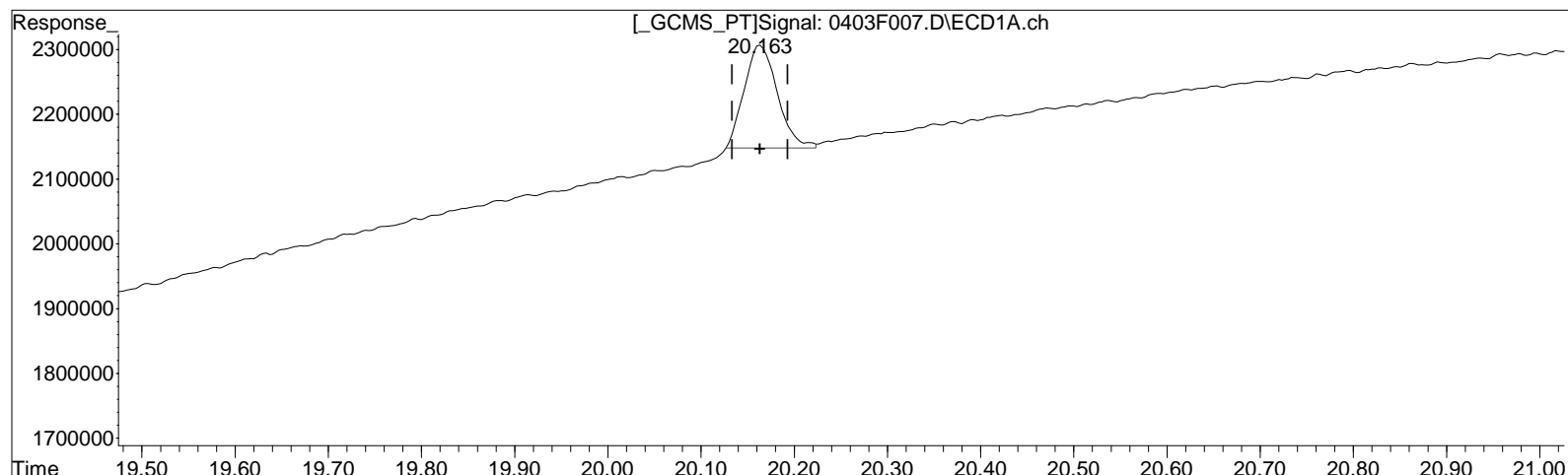
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



QEdit

(28) Decachlorobiphenyl (s)

20.163min 0.857 ug/L

response 392217

Manual Integration:

Before

04/04/23

(28) Decachlorobiphenyl #2 (s)

18.397min 1.004 ug/L

response 370341

Data File : J:\GC38\DATA\040323ICAL\0403F007.D

Vial: 104

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 04:21 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 1 PPB GCPS9-24B @10X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:52:33 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:52:26 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

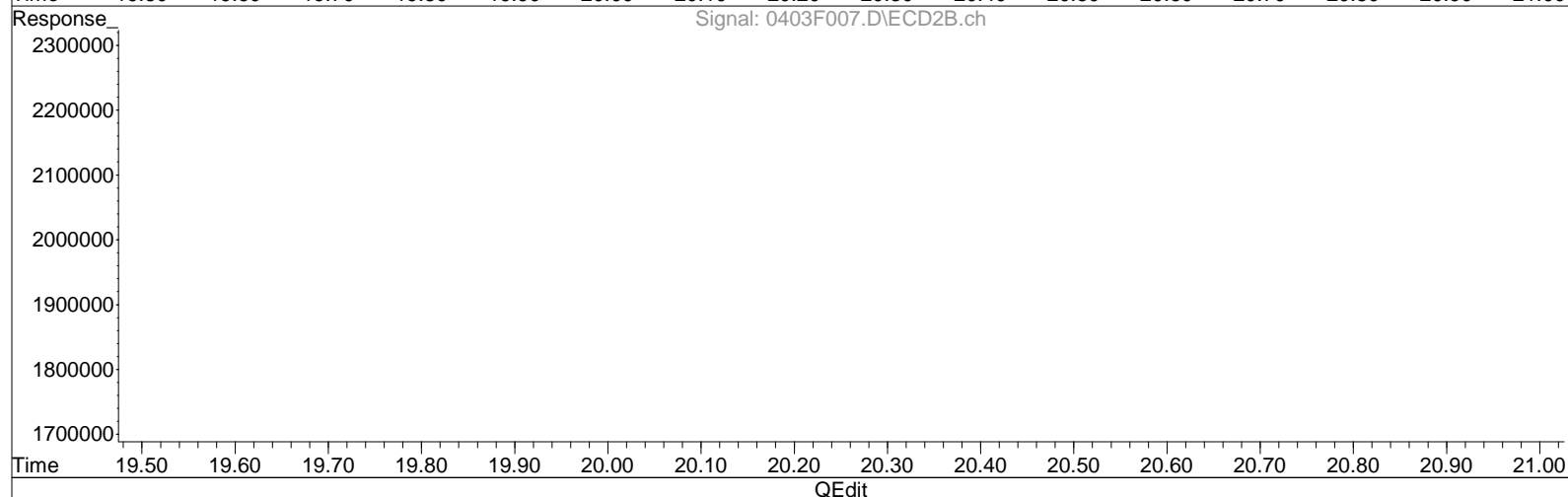
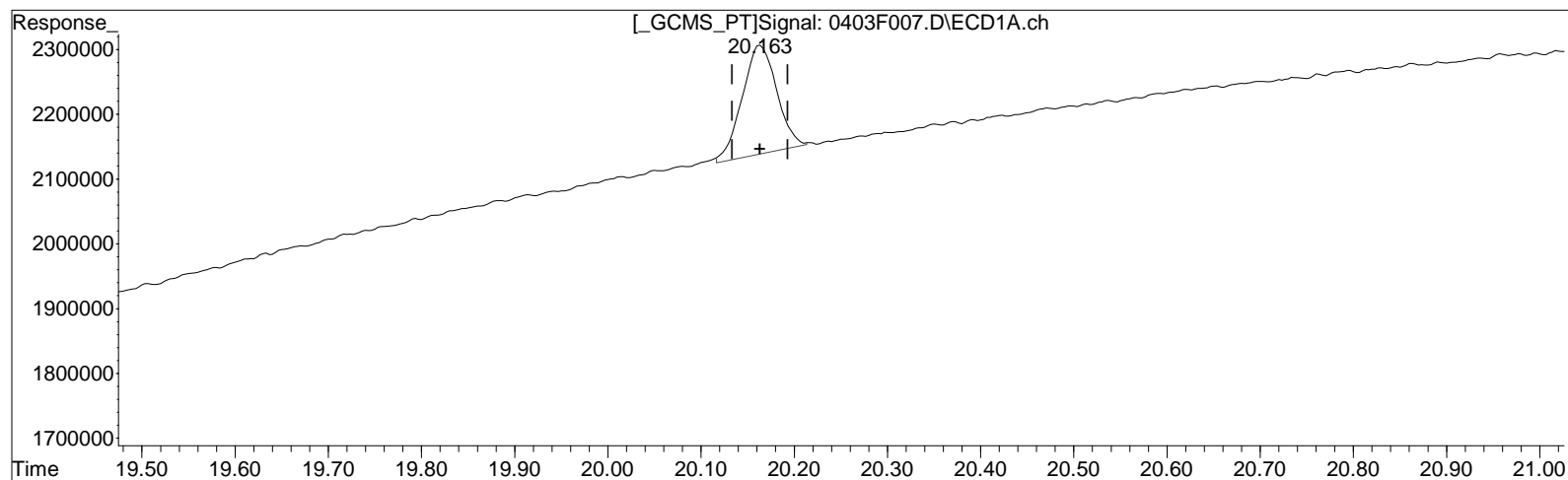
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(28) Decachlorobiphenyl (s)

20.163min 0.953 ug/L m

response 436141

Manual Integration:

After

Baseline Correction

04/04/23

(28) Decachlorobiphenyl #2 (s)

18.397min 1.004 ug/L

response 370341

Data File : J:\GC38\DATA\040323ICAL\0403F008.D

Vial: 105

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 05:05 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 2 PPB GCPS9-24B @5X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 14:10:09 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 14:09:00 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.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...	6.077	5.473	55140717	30827507	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachlo...	9.103	7.427	1501024	964175	1.999	2.046
28) s	Decachlor...	20.163	18.397	855162	691318	1.974	1.953
Target Compounds							
3)	alpha-BHC	10.043	8.790	1389349	797535	2.038	1.910
4)	Hexachlor...	10.220	8.550	1788044	1087708	1.977	2.000
5)	beta-BHC	11.467	10.207	702636	388313	2.113	1.841
6)	gamma-BHC...	10.793	9.617	1237633	748218	2.054	1.990
7)	delta-BHC	11.963	10.793	1150781	674910	2.018	1.949
8)	Heptachlor	12.053	10.373	1288549	754980	2.080	1.903
9)	Aldrin	12.663	11.033	1160608	726731	1.854	1.876
10)	Isodrin	13.290	11.877	986377	634659	1.972	2.000
11)	Heptachlo...	13.510	12.140	1177379	697635	2.086	1.875
12)	gamma-Chl...	14.113	12.563	1140422	712502	2.082	1.899
13)	Endosulfan I	14.267	12.823	991068	634998	1.925	1.887
14)	alpha-Chl...	14.200	12.740	1111813	720959	2.073	1.924
15)	Dieldrin	14.753	13.343	1029657	686357	2.019	2.035
16)	4,4'-DDE	14.507	13.143	1027540	681502	1.848	1.912
17)	Endrin	15.187	13.907	891763	584593	2.029	1.949
18)	Endosulfa...	15.693	14.407	887634	629504	2.030	2.060
19)	4,4'-DDD	15.473	14.177	832726	500388	2.052	1.866
20)	Endrin Al...	15.903	14.827	778761	517118	2.065	2.032
21)	Endosulfa...	16.443	15.197	886886	629712	2.015	2.035
22)	4,4'-DDT	16.047	14.667	604508	516574	1.911	1.951
23)	Endrin Ke...	17.247	16.303	874939	685507	1.978	2.016
24)	Methoxychlor	16.890	15.923	283135	240480	2.042	1.927

SemiQuant Compounds - Not Calibrated on this Instrument

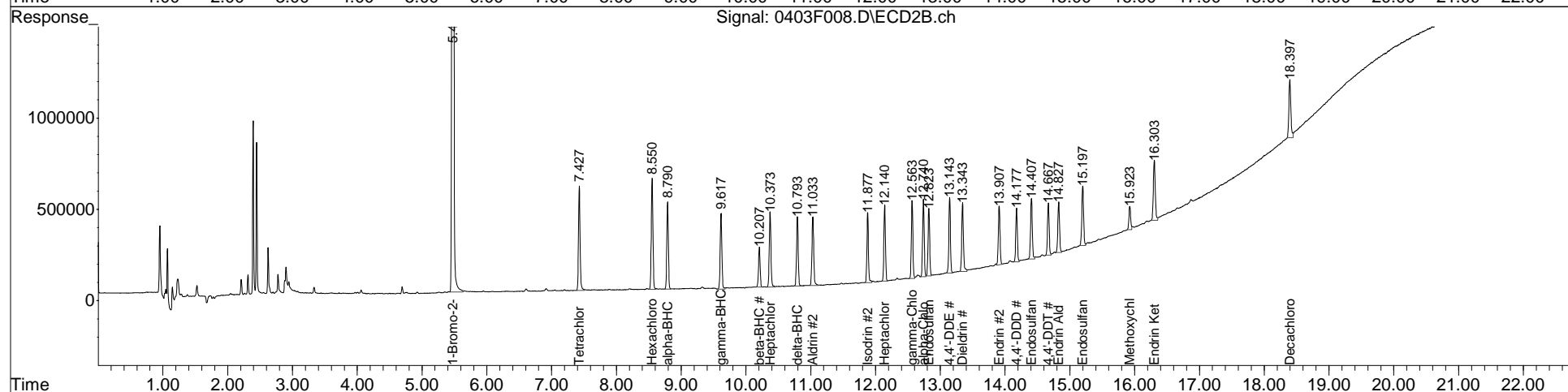
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Vial: 105
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

```

Volume Inj.      :
Signal #1 Phase  : DB XLB           Signal #2 Phase: DB-35MS
Signal #1 Info   : 0.32mm           Signal #2 Info : 0.32mm

```



Data File : J:\GC38\DATA\040323ICAL\0403F009.D

Vial: 106

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 05:50 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 5 PPB GCPS9-24B @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 14:10:19 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 14:09:00 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.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...	6.077	5.473	55564266	30943713	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachlor...	9.100	7.427	3476419	2266275	4.594	4.791
28) s	Decachlor...	20.160	18.393	2080400	1599301	4.766	4.501
Target Compounds							
3)	alpha-BHC	10.043	8.790	3340704	2042138	4.955	4.872
4)	Hexachlor...	10.220	8.550	3980350	2506409	4.367	4.592
5)	beta-BHC	11.467	10.207	1633323	969800	5.167	4.580
6)	gamma-BHC...	10.793	9.617	2941992	1834424	5.008	5.019
7)	delta-BHC	11.963	10.793	2794756	1739478	4.965	5.000
8)	Heptachlor	12.053	10.373	3030642	1840845	5.066	4.622
9)	Aldrin	12.663	11.033	2763522	1826178	4.381	4.696
10)	Isodrin	13.290	11.877	2328328	1549020	4.620	4.863
11)	Heptachlo...	13.510	12.140	2744527	1727292	5.046	4.626
12)	gamma-Chl...	14.110	12.563	2667948	1771205	5.039	4.703
13)	Endosulfan I	14.263	12.823	2387149	1579381	4.601	4.675
14)	alpha-Chl...	14.200	12.740	2643701	1775173	5.049	4.720
15)	Dieldrin	14.753	13.343	2475746	1652135	4.984	5.038
16)	4,4'-DDE	14.507	13.143	2478540	1714335	4.425	4.791
17)	Endrin	15.183	13.907	2134940	1456001	4.998	4.836
18)	Endosulfa...	15.693	14.403	2180618	1518313	5.026	5.088
19)	4,4'-DDD	15.473	14.177	1943197	1259079	4.900m	4.677
20)	Endrin Al...	15.903	14.827	1843449	1258503	5.050	5.118
21)	Endosulfa...	16.443	15.197	2133603	1538700	5.002	5.121
22)	4,4'-DDT	16.047	14.667	1505341	1294916	4.921	4.996
23)	Endrin Ke...	17.247	16.303	2152157	1621920	4.966	4.979
24)	Methoxychlor	16.890	15.923	713982	599663	5.110	4.788

SemiQuant Compounds - Not Calibrated on this Instrument

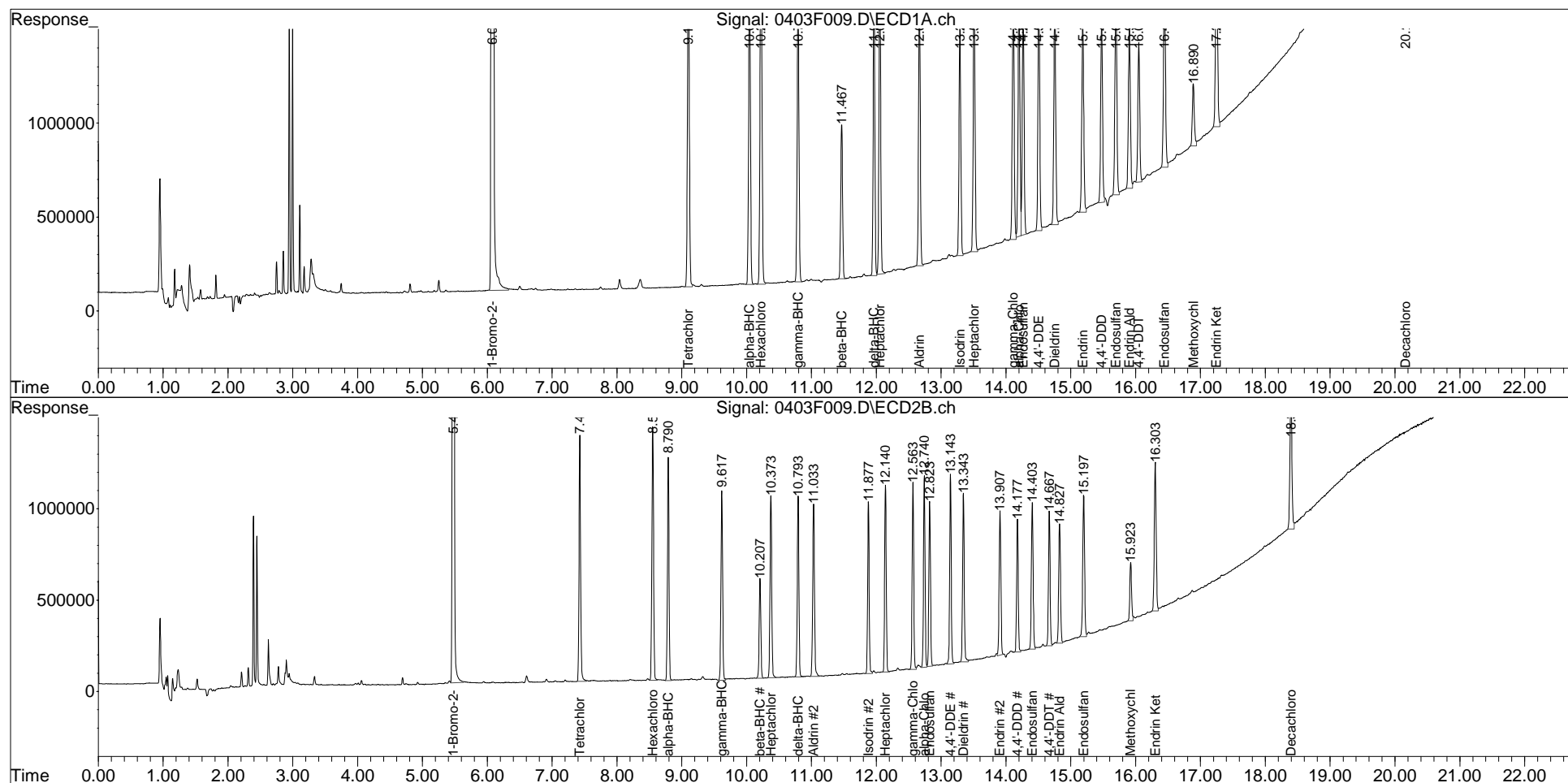
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\040323ICAL\0403F009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Apr 2023 05:50 pm
Sample : 8081 5 PPB GCPS9-24B @2X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 04 14:10:19 2023
Quant Results File: GC38-040323-8081.RES

Vial: 106
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 14:09:00 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\040323ICAL\0403F009.D

Vial: 106

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 05:50 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 5 PPB GCPS9-24B @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:53:38 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:53:27 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

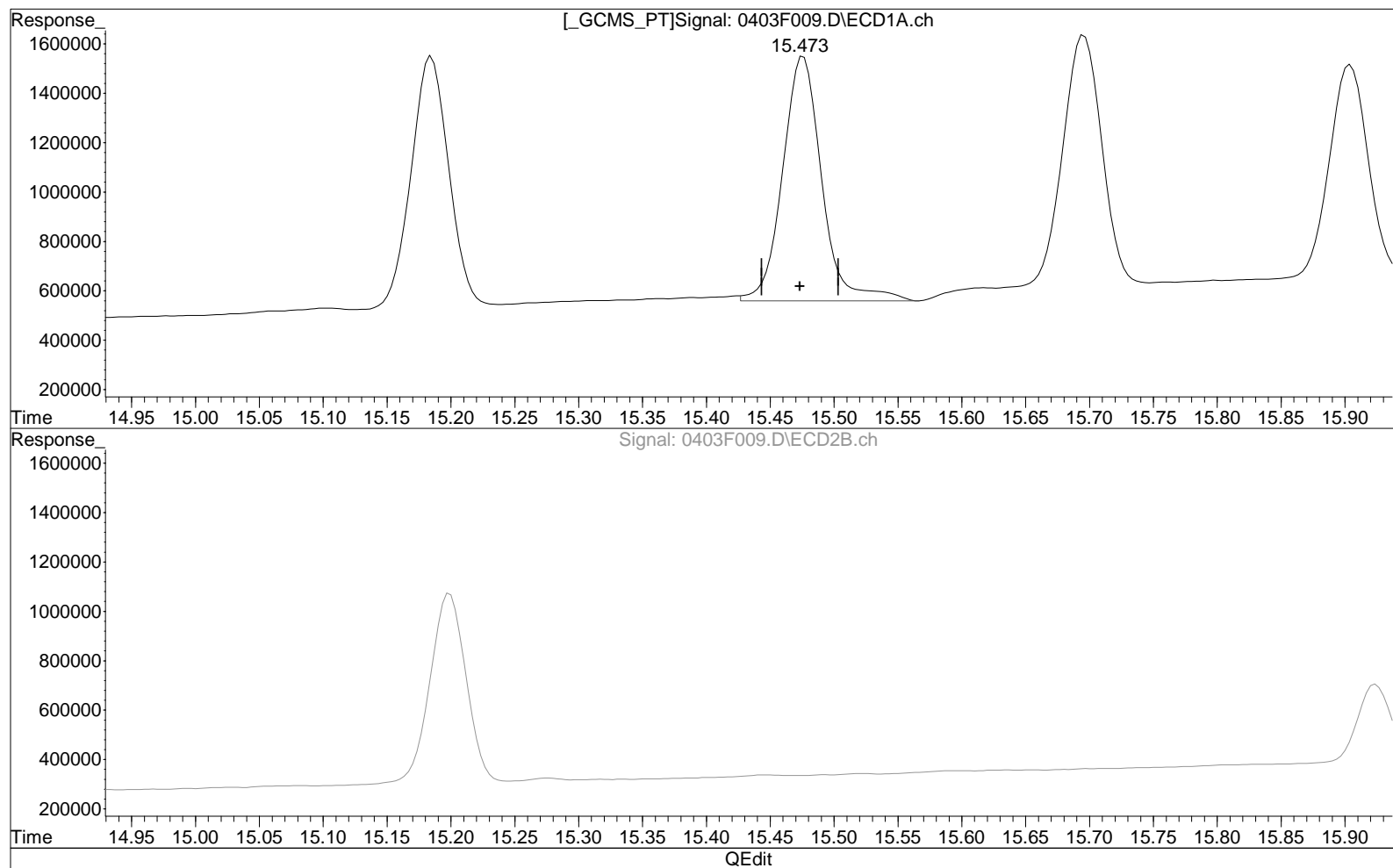
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(19) 4,4'-DDD

15.473min 5.097 ug/L

response 2110635

Manual Integration:

Before

04/04/23

(19) 4,4'-DDD #2

14.177min 4.646 ug/L

response 1259079

Data File : J:\GC38\DATA\040323ICAL\0403F009.D

Vial: 106

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 05:50 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 5 PPB GCPS9-24B @2X

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 09:53:38 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 09:53:27 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.M

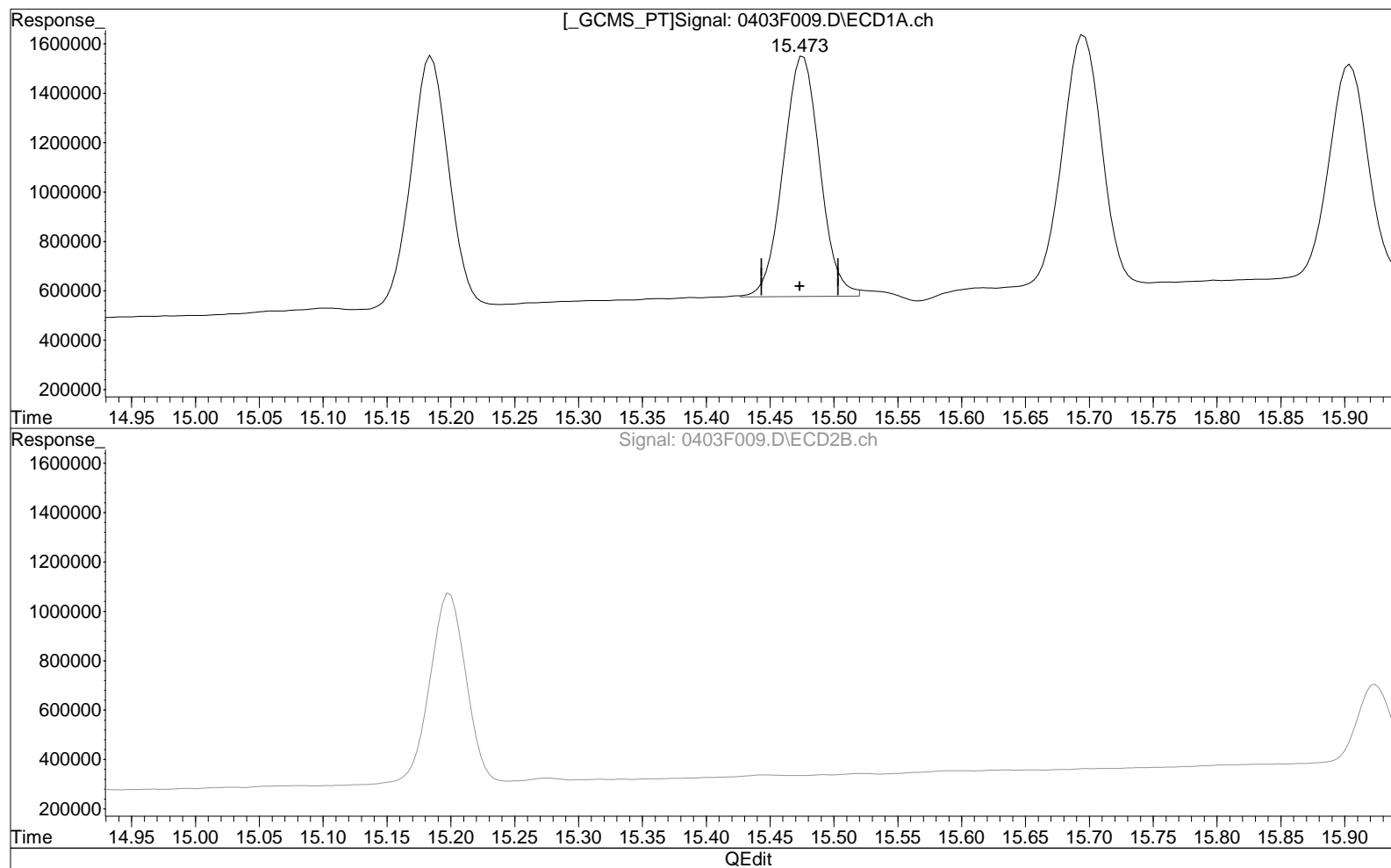
Volume Inj. :

Signal #1 Phase : DB XLB

Signal #2 Phase: DB-35MS

Signal #1 Info : 0.32mm

Signal #2 Info : 0.32mm



(19) 4,4'-DDD

15.473min 4.687 ug/L m

response 1943197

(19) 4,4'-DDD #2

14.177min 4.646 ug/L

response 1259079

Manual Integration:

After

Baseline Correction

04/04/23

Data File : J:\GC38\DATA\040323ICAL\0403F010.D

Vial: 107

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 03 Apr 2023 06:35 pm

Operator: CORP\ALKLS.NoUser

Sample : 8081 10 PPB GCPS9-24B

Inst : GC38

Misc :

Multiplr: 1.00

Integration File signal 1: RTEINT.P

Integration File signal 2: RTEINT2.P

Quant Time: Apr 04 14:10:29 2023

Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M

Quant Title : CAL16283 MJ1647

QLast Update : Tue Apr 04 14:09:00 2023

Response via : Initial Calibration

DataAcq Meth:PESTCLNC.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...	6.077	5.473	55892250	31054434	100.000	100.000
System Monitoring Compounds							
2) s	Tetrachlo...	9.103	7.427	6726133	4366753	8.836	9.198
28) s	Decachlor...	20.163	18.393	4095502	3083235	9.327	8.646
Target Compounds							
3)	alpha-BHC	10.043	8.790	6745608	4136869	10.014	9.834
4)	Hexachlor...	10.220	8.550	7364896	4661955	8.033	8.511
5)	beta-BHC	11.463	10.207	3085914	1882973	9.902	8.860
6)	gamma-BHC...	10.793	9.617	5834324	3626135	9.988	9.993
7)	delta-BHC	11.967	10.793	5629902	3496364	10.015	10.012
8)	Heptachlor	12.053	10.373	5900902	3570356	9.954	8.932
9)	Aldrin	12.667	11.033	5488438	3598270	8.649	9.220
10)	Isodrin	13.290	11.880	4557959	3008082	8.992	9.409
11)	Heptachlo...	13.510	12.140	5364091	3360600	9.965	8.967
12)	gamma-Chl...	14.113	12.563	5229872	3455639	9.967	9.143
13)	Endosulfan I	14.267	12.823	4728198	3074531	9.059	9.068
14)	alpha-Chl...	14.200	12.740	5189449	3468825	9.963	9.190
15)	Dieldrin	14.753	13.343	4941043	3247604	10.007	9.976
16)	4,4'-DDE	14.507	13.143	5001116	3375371	8.876	9.399
17)	Endrin	15.183	13.907	4240402	2900840	9.995	9.601
18)	Endosulfa...	15.693	14.407	4334909	2951901	9.985	9.950
19)	4,4'-DDD	15.473	14.177	3959046	2519249	10.041	9.324
20)	Endrin Al...	15.903	14.827	3607603	2422584	9.965	9.939
21)	Endosulfa...	16.443	15.197	4232332	2964629	9.997	9.940
22)	4,4'-DDT	16.050	14.667	3138092	2583800	10.343	10.014
23)	Endrin Ke...	17.247	16.303	4325640	3219178	10.020	10.010
24)	Methoxychlor	16.890	15.923	1492123	1216679	10.616	9.680

SemiQuant Compounds - Not Calibrated on this Instrument

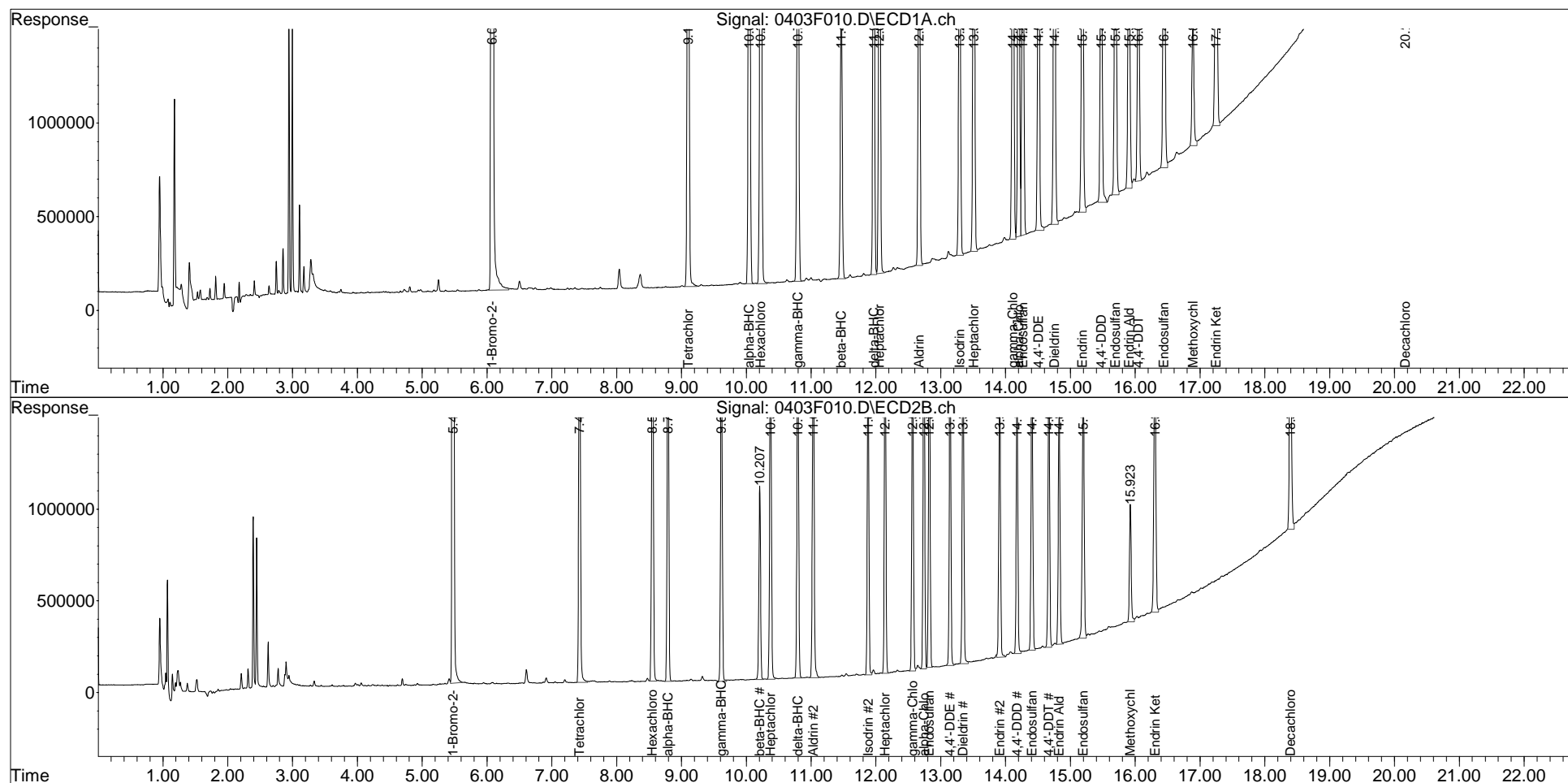
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\040323ICAL\0403F010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Apr 2023 06:35 pm
Sample : 8081 10 PPB GCPS9-24B
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 04 14:10:29 2023
Quant Results File: GC38-040323-8081.RES

Vial: 107
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 14:09:00 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



Data File : J:\GC38\DATA\040323ICAL\0403F011.D Vial: 108
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 03 Apr 2023 07:20 pm Operator: CORP\ALKLS.NoUser
 Sample : 8081 ICV 2 PPB GCPS9-22B Inst : GC38
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 04 14:10:38 2023
 Quant Results File: GC38-040323-8081.RES

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
 Quant Title : CAL16283 MJ1647
 QLast Update : Tue Apr 04 14:09:00 2023
 Response via : Initial Calibration
 DataAcq Meth:PESTCLNC.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...	6.077	5.473	55558098	31053938	100.000	100.000
System Monitoring Compounds							
Target Compounds							
3)	alpha-BHC	10.043	8.790	1551401	901842	2.266	2.144
4)	Hexachlor...	10.220	8.553	1755166	1039659	1.926m	1.898
5)	beta-BHC	11.467	10.207	803765	459060	2.429	2.160
6)	gamma-BHC...	10.793	9.617	1397822	837361	2.317	2.223
7)	delta-BHC	11.967	10.793	1318578	799487	2.305	2.292
8)	Heptachlor	12.053	10.373	1442856	844503	2.329	2.113
9)	Aldrin	12.667	11.033	1276729	811184	2.024	2.079
10)	Isodrin	13.290	11.880	1052955	650671	2.090	2.035
11)	Heptachlo...	13.510	12.140	1286763	770533	2.277	2.056
12)	gamma-Chl...	14.113	12.563	1276500	800775	2.330	2.119
13)	Endosulfan I	14.267	12.823	1126324	717990	2.171	2.118
14)	alpha-Chl...	14.200	12.740	1242335	808167	2.311	2.141
15)	Dieldrin	14.753	13.343	1092433	728801	2.132	2.152
16)	4,4'-DDE	14.507	13.143	1138487	768473	2.033	2.140
17)	Endrin	15.183	13.910	972465	627057	2.207	2.075
18)	Endosulfa...	15.693	14.407	972107	680145	2.211m	2.216
19)	4,4'-DDD	15.473	14.177	897202	553948	2.202	2.050
20)	Endrin Al...	15.903	14.827	843933	559373	2.232	2.192
21)	Endosulfa...	16.443	15.197	948268	713381	2.147	2.303
22)	4,4'-DDT	16.047	14.667	534962	495618	1.662	1.854
23)	Endrin Ke...	17.250	16.303	899829	694536	2.021	2.029
24)	Methoxychlor	16.890	15.923	288235	257294	2.063	2.047

SemiQuant Compounds - Not Calibrated on this Instrument

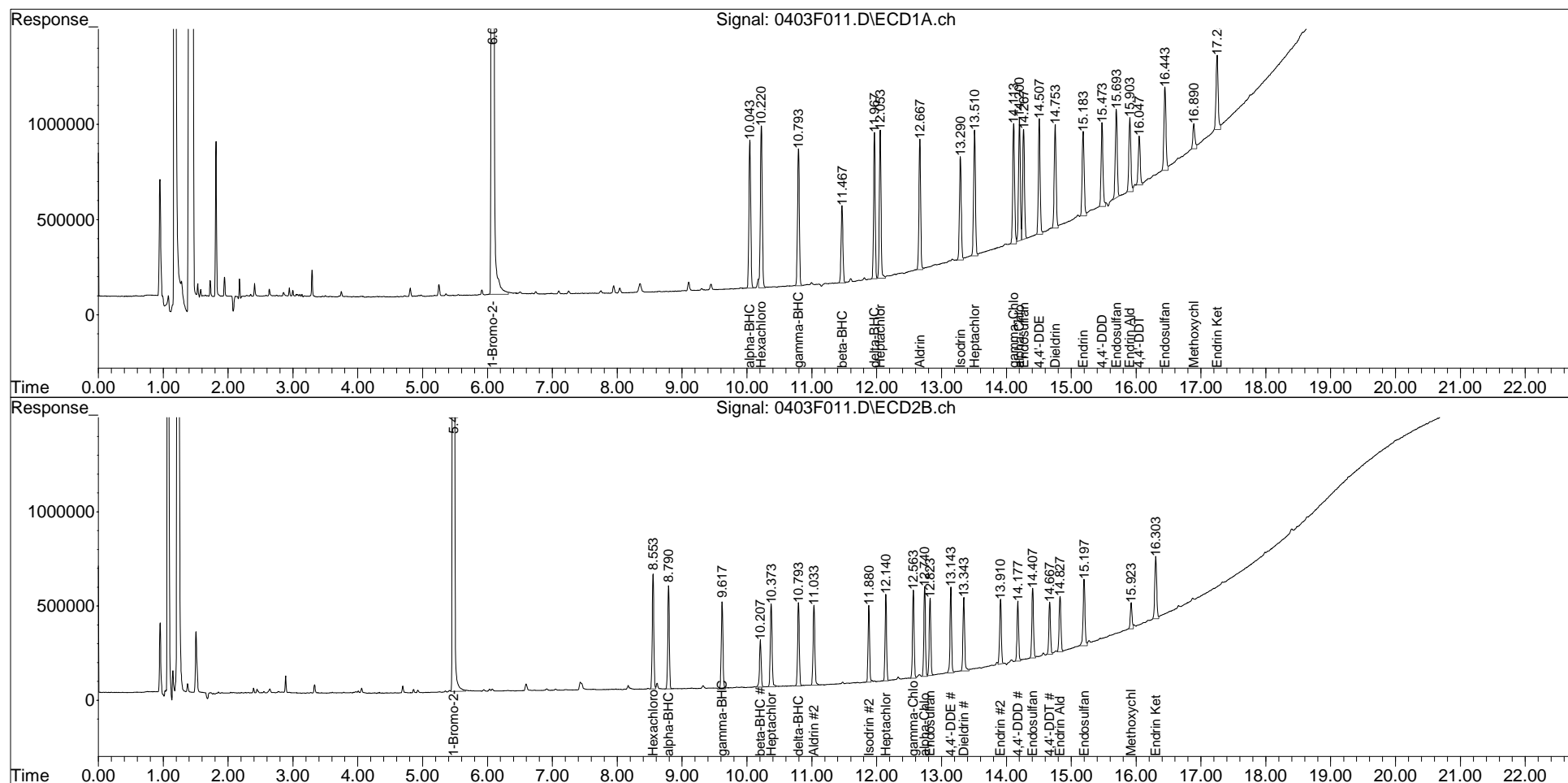
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC38\DATA\040323ICAL\0403F011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Apr 2023 07:20 pm
Sample : 8081 ICV 2 PPB GCPS9-22B
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 04 14:10:38 2023
Quant Results File: GC38-040323-8081.RES

Vial: 108
Operator: CORP\ALKLS.NoUser
Inst : GC38
Multiplr: 1.00

Quant Method : J:\GC38\Methods\GC38-040323-8081.M
Quant Title : CAL16283 MJ1647
QLast Update : Tue Apr 04 14:09:00 2023
Response via : Initial Calibration
DataAcq Meth:PESTCLNC.M

Volume Inj. :
Signal #1 Phase : DB XLB
Signal #1 Info : 0.32mm
Signal #2 Phase: DB-35MS
Signal #2 Info : 0.32mm



	Name	Vial	Method Path	Method File	Data Path	Data File	Type
	PEM GCSP9-25G	143	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F040	Sample
	8081 2 PPB CCV GCPS9-26K	144	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F041	Sample
	TOX 100 PPB CCV GCPS9-25J	147	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F042	Sample
	CHLOR 20 PPBCCV GCPS9-26F	148	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F043	Sample
	IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F044	Sample
	KQ2306377-02 LCS 81	21	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F045	Sample
	KQ2306377-03 DLCS 81	22	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F046	Sample
	K2303814-001	23	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F047	Sample
	K2303814-002	24	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F048	Sample
	K2304134-001	25	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F049	Sample
	KQ2305598-01 MB	26	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F050	Sample
	KQ2305598-02 LCS 81	27	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F051	Sample
	KQ2305598-03 DLCS 81	28	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F052	Sample
	KQ2305598-04 LCS T	29	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F053	Sample
	KQ2305598-05 DLCS T	30	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F054	Sample
	K2303340-001	31	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F055	Sample
	IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F056	Sample
	PEM GCSP9-25G	143	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F057	Sample
	8081 2 PPB CCV GCPS9-26K	144	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F058	Sample
	TOX 100 PPB CCV GCPS9-25J	147	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F059	Sample
	CHLOR 20 PPBCCV GCPS9-26F	148	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F060	Sample
	IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F061	Sample
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	KQ2305743-02 LCS 81	33	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F063	Sample
	KQ2305743-03 DLCS 81	34	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F064	Sample
	KQ2305743-04 LCS T	35	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F065	Sample
	KQ2305743-05 DLCS T	36	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F066	Sample
	K2303523-001	37	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F067	Sample
	KQ2306606-01 MB	38	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F068	Sample
	KQ2306606-02 LCS 81	39	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F069	Sample
	KQ2306606-03 DLCS 81	40	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F070	Sample
	K2304134-001 RE	41	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F071	Sample
	IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F072	Sample

80156
667300233

81
spiked
no
spiked
w/TOX

Name	Vial	Method Path	Method File	Data Path	Data File	Type
PRIMER	141	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F001	Sample
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F002	Sample
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F003	Sample
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F004	Sample
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F005	Sample
PEM GCSP9-25G	143	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F006	Sample
8081 2 PPB CCV GCPS9-26K	144	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F007	Sample
24 2 PPB CCV GCPS9-26D	145	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F008	Sample
M/P 2/10 PPB CCV GCPS9-26G	146	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F009	Sample
TOX 100 PPB CCV GCPS9-25J	147	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F010	Sample
CHLOR 20 PPBCCV GCPS9-26F	148	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F011	Sample
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F012	Sample
KQ2304443-07 MB	1	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F013	Sample
KQ2304443-05 LCS 81	2	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F014	Sample
KQ2304443-06 LCS T/C	3	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F015	Sample
KQ2304443-01 MS 81	4	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F016	Sample
KQ2304443-02 DMS 81	5	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F017	Sample
KQ2304443-03 MS T/C	6	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F018	Sample
KQ2304443-04 DMS T/C	7	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F019	Sample
K2302827-002	8	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F020	Sample
K2302796-001	9	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F021	Sample
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F022	Sample
PEM GCSP9-25G	143	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F023	Sample
8081 2 PPB CCV GCPS9-26K	144	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F024	Sample
TOX 100 PPB CCV GCPS9-25J	147	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F025	Sample
CHLOR 20 PPBCCV GCPS9-26F	148	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F026	Sample
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F027	Sample
KQ2304603-01 MB	10	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F028	Sample
KQ2304603-02 LCS 81	11	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F029	Sample
KQ2304603-03 DLCS 81	12	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F030	Sample
KQ2304603-04 LCS T	13	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F031	Sample
KQ2304603-05 DLCS T	14	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F032	Sample
K2302778-001	15	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F033	Sample
K2302778-002	16	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F034	Sample
K2302778-003	17	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F035	Sample
K2302778-004	18	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F036	Sample
K2302778-005	19	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F037	Sample
KQ2306377-01 MB	20	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F038	Sample
IB	142	C:\GC38\Methods\	PESTCLNC	C:\GC38\Data\041023B	0410F039	Sample



Chlorinated Herbicides by GC

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#: 417439

Team: Semivoa GC/NPATTERSON

Number of Copies to make: 3

Prep Workflow: OrgHerbAq(7)

Prep Method: Method

Status: Prepped

Prep Date/Time: 3/30/23 15:00

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2305790-01	MB		8151A/HERB		Liquid	1050.0000mL	20.00mL	
2	KQ2305790-02	LCS		8151A/HERB		Liquid	1000mL	20.00mL	
3	KQ2305790-03	DLCs		8151A/HERB		Liquid	1000mL	20.00mL	
4	K2303523-001	GS-032323-53	.01	8151A/HERB		Water	1000mL	20.00mL	
5	K2303524-001	RB20230322161400	.02	8151A/HERB		Water	1040.0000mL	20.00mL	
6	K2303566-001	DC-22C-20230324	.01	8151A/HERB		Water	1050.0000mL	20.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate	Inventory ID 228769	Logbook Ref: Penta02-66H	Expires On: 09/15/2023
K2303523-001 500.00µL	K2303524-001 500.00µL	K2303566-001 500.00µL	KQ2305790-01 500.00µL
KQ2305790-02 500.00µL	KQ2305790-03 500.00µL	KQ2305790-02 500.00µL	KQ2305790-03 500.00µL
Name: 8151A 5-500ppm Herbicides matrix spike	Inventory ID 228838	Logbook Ref: PENTA02-67E	Expires On: 09/30/2023

Preparation Steps

Step:	Extraction	Step:	Derivatization	Step:	Final Volume
Started:	3/30/23 15:00	Started:	4/20/23 12:30	Started:	4/20/23 15:20
Finished:	3/30/23 17:41	Finished:	4/20/23 13:00	Finished:	4/24/23 14:37
By:	NPATTERSON	By:	ZPRIM	By:	ZPRIM
Comments		Comments	ZPRIM M + Thompson	Comments	

Comments:

Reviewed By: ZM Date: 4/12/23

Chain of Custody

Spike Witness: CEHRENFELD

Date:

Relinquished By: JM Date: 4/25/23

Received By: CS for BB Date: 5/29/23

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 417439

Team: Semivoa GC/NPATTERSON

Number of Copies to make: 3

Prep WorkFlow: OrgHerbAq(7)

Prep Method: Method

Status: Prepped

Prep Date/Time: 3/30/23 03:00 PM

#	Lab Code	Client ID	B#	✓	Method / Test	Matrix	Amt. Ext.	pH	Int. Vol	Final Vol	Surr Amt	Spike Amt
1	KQ2305790-01	MB	-	✓	8151A / HERB	Liquid	1050				500	-
2	KQ2305790-02	LCS	-	✓	8151A / HERB	Liquid	1000				500	500
3	KQ2305790-03	DICS	-	✓	8151A / HERB	Liquid	1000				500	500
4	K2303523-001	GS-032323-53	.01	✓	8151A / HERB	Water	1000				✓	-
5	K2303524-001	RB20230322161400	.02	✓	8151A / HERB	Water	1040				✓	-
6	K2303566-001	DC-22C-20230324	.01	✓	8151A / HERB	Water	1050				✓	-

Comments:

Surrogate ID: 228,769-Penta02-66H 228,769-Penta02-66H 228,769-Penta02-66H

Spike ID: 228,769-Penta02-66H 228,838-PENTA02-67E 228,769-Penta02-66H 228,838-PENTA02-67E

Witnessed By:

Analyst:

Nerak Patterson

Assisted By:

Printed 4/25/23 11:01

Preparation Information Benchsheet

Preparation Information Benchsheet

Prep Run#: 417439 N/A

Team: Semivoa GC/RATONIS 9/30/23

Number of Copies to make: 3 EE MR

Prep WorkFlow: OrgHerbaq(7)

Prep Method:

Status: Draft

Prep Date/Time: 3/30/23 09:37 AM

15:00

#	Lab Code	Client ID	B#	Method / Test	Matrix	Amt. Ext. mL	pH	Int. Vol	Final Vol	Surr Amt uL	Spike Amt uL
1	KQ2305790-01	MB	-	✓ 8151A / HERB	Liquid	1050	1000	20.000	500	-	-
2	KQ2305790-02	LCS	-	✓ 8151A / HERB	Liquid	700	1000	1	500	500	-
3	KQ2305790-03	DLCS	-	✓ 8151A / HERB	Liquid	1000	1000	1	500	500	-
4	K2303523-001	GS-032323-53	01	✓ 8151A / HERB	Water	1000	1000	1	500	500	-
5	K2303524-001	RB20230322161400	02	✓ 8151A / HERB	Water	1040	1000	1	500	500	-
6	K2303566-001	DC-22C-20230324	02	✓ 8151A / HERB	Water	1050	1000	1	500	500	-

Comments:

Spike not in lines

Surrogate ID: Penta 02-66H x p. Sep. 15, 2023 conc. 5 ppm 500 uL

Spike ID: Penta 02-67E x p. Sep. 30, 2023 conc. 5-500 ppm 500 uL

Witnessed By:

EE

Analyst:

Narak Patterson

Assisted By:

ALS Environmental Extraction Analyst Notes

Service Request: K2303523, 3524, 3566 Prep Group: KQ 2305790

Topic	Notes	Initials/Date
No Anomalies: <input type="checkbox"/>		
Sample Anomalies: <input type="checkbox"/>		
Organics Present (sticks, leafs, bugs): <input type="checkbox"/>		
Fuel Odors: <input type="checkbox"/>		
Sulfur Odors, Precipitate: <input type="checkbox"/>		
General Notes:	<p>3523-1 and 3566-1 have a yellow tint. 3523-1 turned a brighter lemon lime yellow color after hydrolysis. 3566-1 became clearer after hydrolysis. 3566-1 has emulsion.</p>	<p>NRP 3/30/23 NRP 3/30/23 NRP 3/30/23 NRP 3/30/23</p>

ALS Environmental
Appendix from SOC-8151 Extracting Herbicides in Water
EPA Method 8151A

Service Request # K2303523, 3524, 3566 Work Group # KQ 2305790

Syringe Volume(s) and ID: 500µL 40

NaCl Lot # 21E135210 10N NaOH Lot # 1206971 pH Strips Lot # 234921V

Hydrolysis Start (time/date/initial): 13:00 3/30/23 NRP

Hydrolysis Stop (time/date/initial): 14:25 3/30/23 NRP

1:1 Sulfuric Acid Lot # 2210F47 Ethyl Ether Lot # EF293-US

Extraction Start (time/date/initial): 15:00 3/30/23 NRP

Extraction Stop (time/date/initial): 17:41 3/30/23 NRP

Acidified Sulfate Lot # DZ03-88G

S-Evap (time/date/initial): 1423 4-4-23 JB S-Evap Thermometer ID: X-SUM-005

Temp as measured: 65 °C Correction factor: 0 °C Adjusted temp: 65 °C

Pipette (5 mL) Lot # 72120-5110

Derivatization Start (time/date/initial): 1230 4/20/23 wd

Derivatization Stop (time/date/initial): 1300 4/20/23 wd

Diazomethane Lot # DZ03-47AA

Solvent Exchange to Iso-Octane (time/date/initial): 1310 4/20/23 wd Iso-Octane Lot # E2155-US

N-Evap Thermometer ID: 1320 4/20/23 wd

Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Pipette (2 mL) Lot # 12621646

Filter (0.45 µm) (time/date/initial): — Filter Lot # —

Completed (time/date/initial): 14:37 4/24/23 ZP

Archive Storage: Chinz

Vial: Clear 1mL Vial Storage: Counter top

Bench Sheet Review Check List	
<input checked="" type="checkbox"/>	Hold times met; if no, reason: _____
<input checked="" type="checkbox"/>	Prep date, time, method, department, product code correct
<input checked="" type="checkbox"/>	Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
<input checked="" type="checkbox"/>	Weights/Volumes and units correct on raw and final bench sheets
<input checked="" type="checkbox"/>	Sample IDs have been checked - bottle numbers appended if required
<input checked="" type="checkbox"/>	Names present for: started by, completed by, relinquished by, and witnessed by
<input checked="" type="checkbox"/>	Extract storage recorded
<input checked="" type="checkbox"/>	Additional prep sheet completely filled out (NA or line out blanks)
<input checked="" type="checkbox"/>	All clean-ups have been noted on additional prep sheet

Validation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000055.D\
Lab ID: K2303523-001
RunType: N/A
Matrix: Water

Date Acquired: 5/10/23 15:21:22
Batch ID: 804089
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time		X
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Continuing Calibration Recovery (Closing)		X
Lab Control Sample Recovery	X	
Duplicate Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Sample Exceptions

Exception Categories	Result	Corrective Action
Analytical Hold Time	Analysis Date/Time: 05/10/2023 1521 Hold Date/Time: 05/09/2023 2359	narr

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides2	Dicamba	23		20	CCV+ND
	Dichlorprop	21		20	
	MCPA	21		20	
	2,4-Dichlorophenylacetic Acid	23		20	
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP (Silvex)	22		20	
	Dicamba	24		20	
	Dichlorprop	24		20	
	2,4-Dichlorophenylacetic Acid	21		20	
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides2	2,4,5-TP (Silvex)	25		20	
	Dicamba	27		20	
	Dichlorprop	26		20	
	MCPA	25		20	
	2,4-Dichlorophenylacetic Acid	27		20	

Primary Review: _____

Printed: 5/26/23 15:35

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Secondary Review: _____

Quantitation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000055.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 15:21:22	Vial:	4
Run Type:	N/A	Dilution:	1
Lab ID:	K2303523-001	Raw Units:	ppb

Bottle ID:	K2303523-001.01	Tier:	IV	Matrix:	Water
Prod Code:	HERB	Collect Date:	3/23/23	Receive Date:	3/24/23

Analysis Lot:	804089	Prep Lot:	417439	Report Group:	K2303523
Analysis Method:	8151A	Prep Method:	Method		
		Prep Date:	3/30/23		

Title:	Chlorinated Herbicides by GC	Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	10.19 ^{-0.01}	9.59	72637850	10198843	77.230 ^{CCV}	78.105 ^{CCV}	62	62	62	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	12.63 ^{-0.02}	12.05 ^{+0.01}	10063829	795187	2.748	1.809	0.055J	0.036J	0.036 J	P Y
2,4,5-TP (Silvex)	12.38 ^{+0.02}	11.66 ^{+0.02}	6558930	683896	1.526 ^{CCV}	1.278 ^{CCV}	0.031U	0.026U	0.045 U	Y
2,4-D	11.48 ^{+0.05}	10.84 ^{+0.05}	2370314	488275	2.372	3.545	0.047J	0.071J	0.047 J	i P Y
2,4-DB	13.19 ^{-0.03}	12.51 ^{-0.04}	3981205	936166	14.190	16.815	0.28J	0.34J	0.28 J	Y
Dalapon WRT	5.66 ^{-0.03}	5.19 ^{+0.02}	80139383	8609548	67.392	42.709	1.3	0.85	0.85	i P Y
Dicamba	10.47 ^{+0.03}	9.81 ^{+0.01}	1398067	346944	0.439 ^{CCV}	0.763 ^{CCV}	0.0088U	0.015U	0.025 U	Y
Dichlorprop	11.22 ^{+0.04}	10.49 ^{+0.02}	3416279	719958	3.914 ^{CCV}	5.934 ^{CCV}	0.078J	0.12J	0.078 J	i P Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	0.015 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000 ^{CCV}	0U	0U	8.7 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	14 U	Y

Prep Amount: 1000 mL **Dilution:** 1
Prep Final Amount: 20.00 mL **Basis Factor:** 100.00

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 : J:\GC34\DATA\050923-HB\05090000055.D Vial: 47
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10-May-2023, 15:21:22 Operator: BB
 Sample : K2303523-001 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 12 11:48:55 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.193	9.587	72637850	10198843	77.230	78.105
Target Compounds							
1) m	Dalapon	5.657f	5.187	80139383	8609548	67.392	42.709 #
3) m	Dicamba	10.470f	9.813	1398067	346944	0.439	0.763 #
4) m	MCP	0.000	0.000	0	0	N.D.	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D.	N.D. d
6) m	Dichloroprop	11.220f	10.490	3416279	719958	3.914	5.934 #
7) m	2,4-D	11.483f	10.840f	2370314	488275	2.372	3.545 #
8) m	2,4,5-TP ...	12.383	11.657	6558930	683896	1.526	1.278
9) m	2,4,5-T	12.633	12.053	10063829	795187	2.748m	1.809 #
10) m	2,4-DB	13.193	12.513f	3981205	936166	14.190	16.815
11) m	Dinoseb	0.000	0.000	0	0	N.D.	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

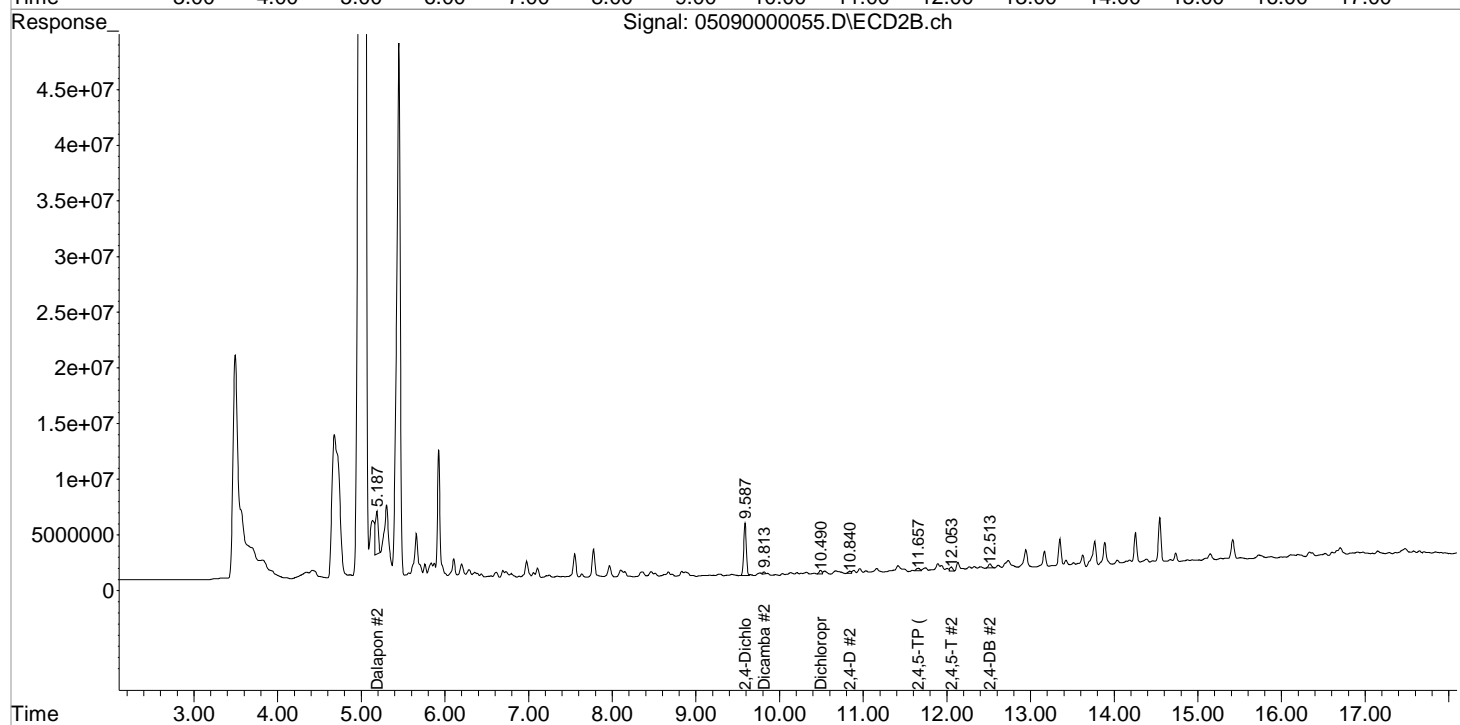
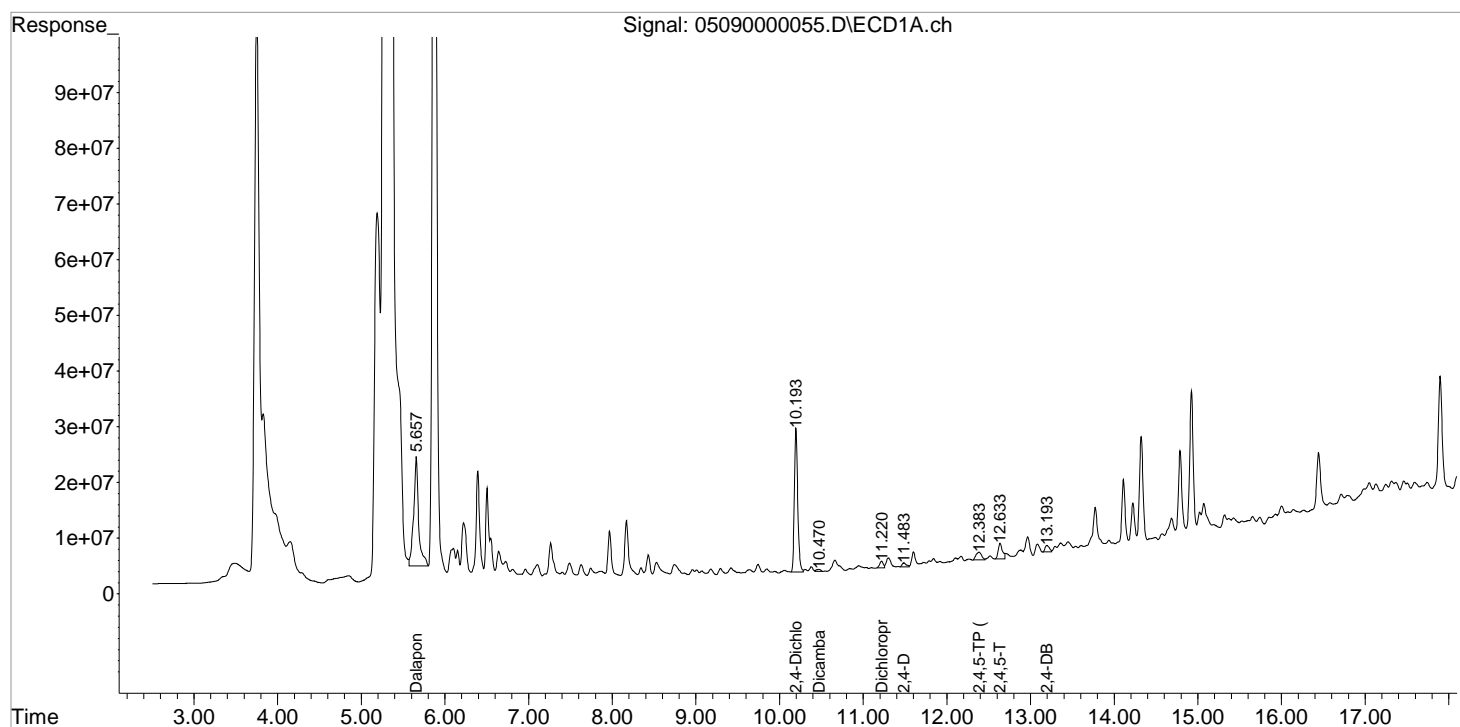
Data File : J:\GC34\DATA\050923-HB\05090000055.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 15:21:22
Sample : K2303523-001
Misc :

Vial: 47
Operator: BB
Inst : GCI
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 12 11:48:55 2023
Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



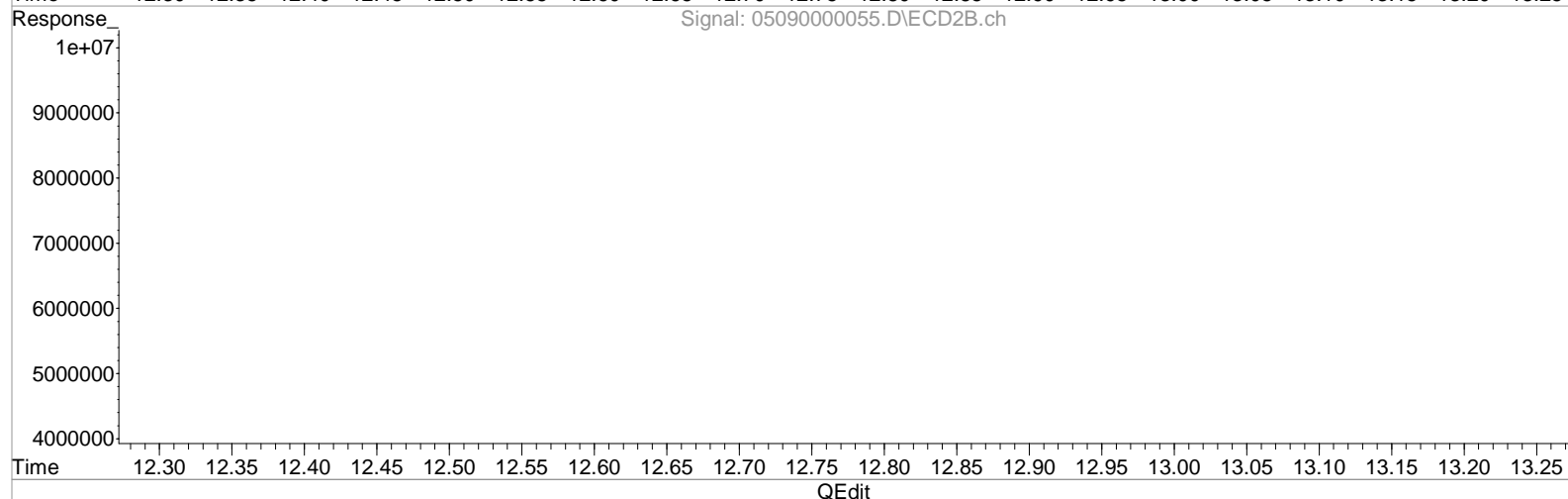
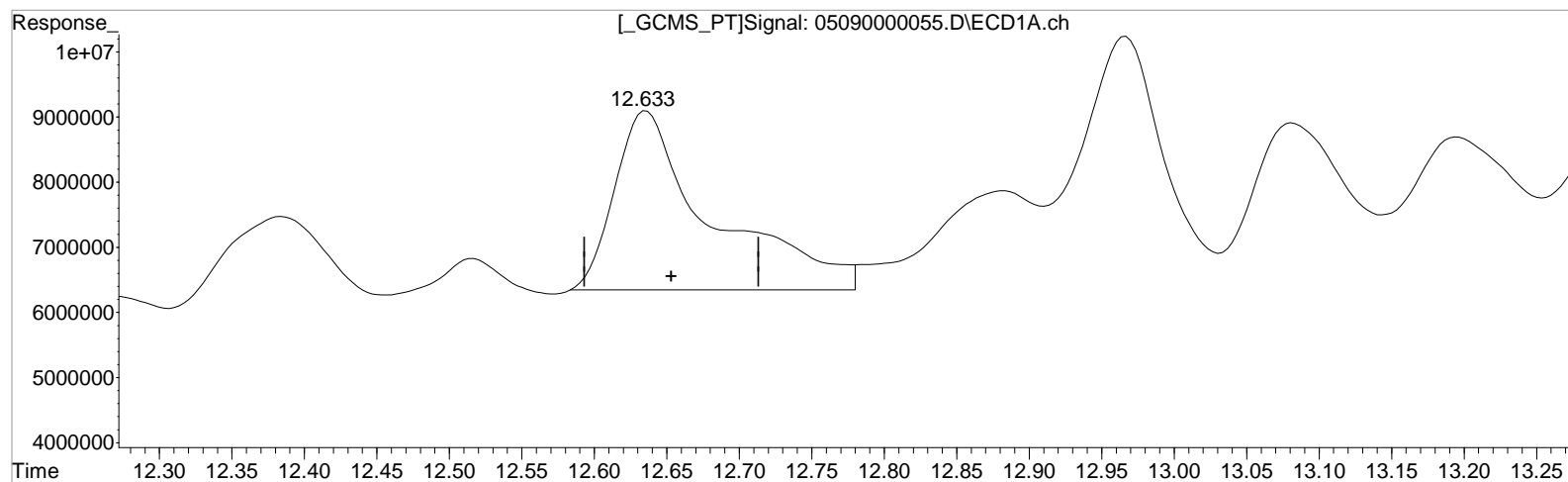
Data File : J:\GC34\DATA\050923-HB\05090000055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10-May-2023, 15:21:22
 Sample : K2303523-001
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 11 15:56:05 2023
 Quant Results File: 050823.8151.RES

Vial: 47

Operator: BB
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



QEdit

(9) 2,4,5-T (m)

12.633min 3.512 ppb

response 12862251

Manual Integration:

Before

05/12/23

(9) 2,4,5-T #2 (m)

12.053min 1.809 ppb

response 795187

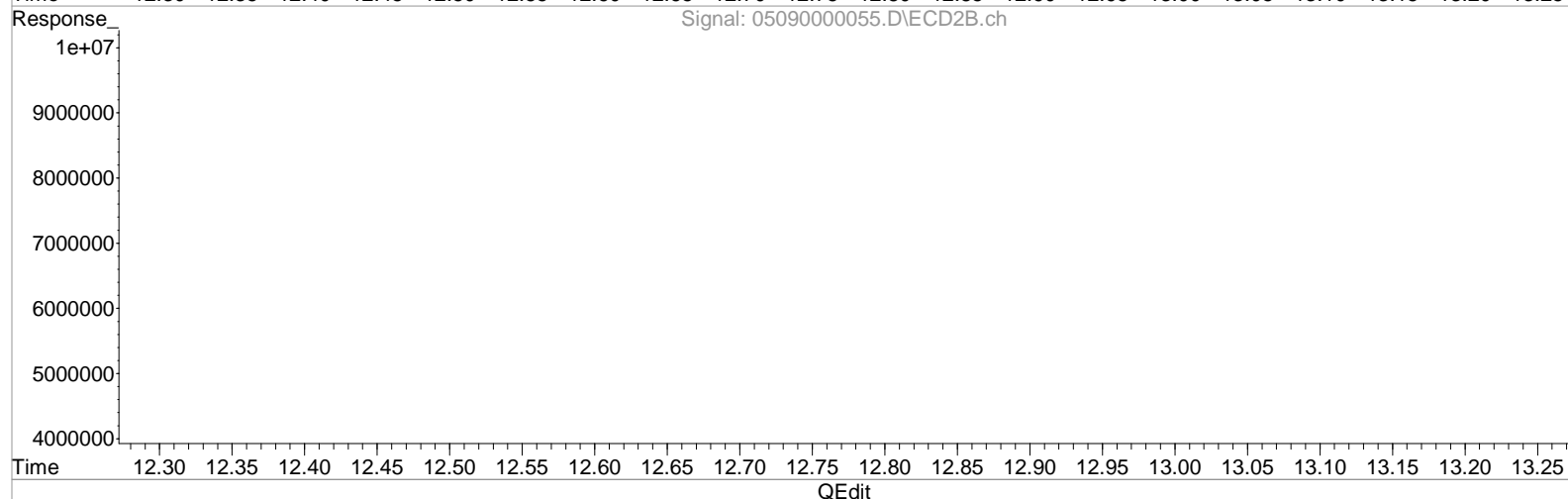
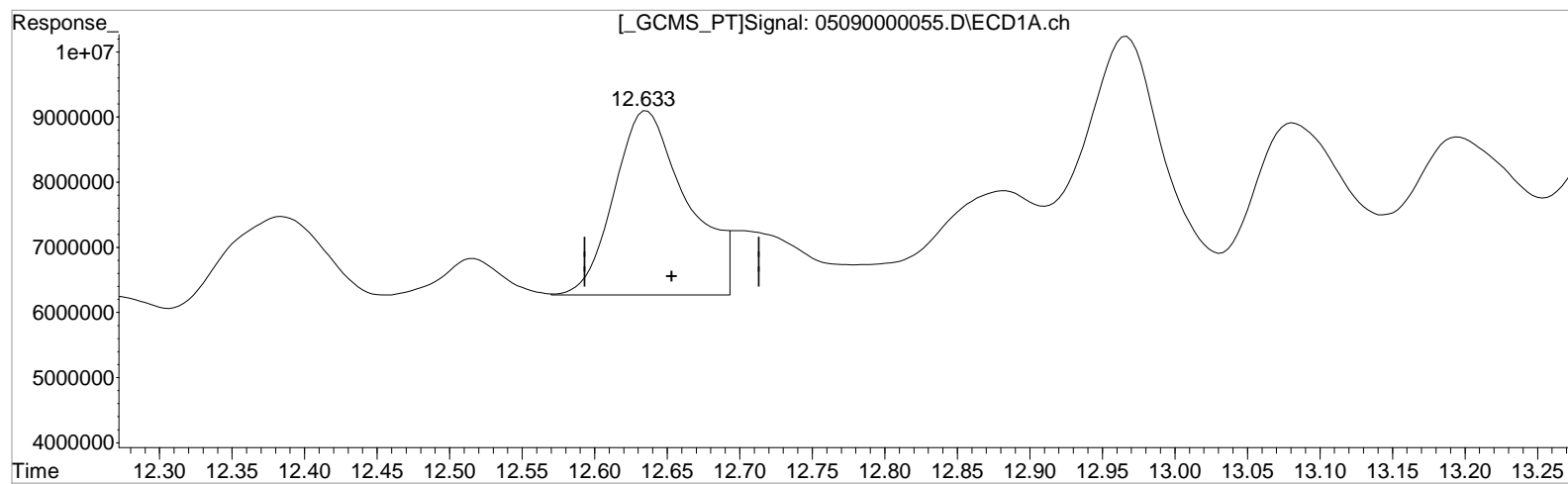
Data File : J:\GC34\DATA\050923-HB\05090000055.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 15:21:22
Sample : K2303523-001
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 11 15:56:05 2023
Quant Results File: 050823.8151.RES

Vial: 47

Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



QEdit

(9) 2,4,5-T (m)

12.633min 2.748 ppb m

response 10063829

(9) 2,4,5-T #2 (m)

12.053min 1.809 ppb

response 795187

Manual Integration:

After

Baseline/Shoulder

05/12/23

Validation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000052.D\
Lab ID: KQ2305790-01
RunType: MB
Matrix: Water

Date Acquired: 5/10/23 14:09:57
Batch ID: 804089
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time		X
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Continuing Calibration Recovery (Closing)		X
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Sample Exceptions

Exception Categories	Result	Corrective Action
Analytical Hold Time	Analysis Date/Time: 05/10/2023 1409 Hold Date/Time: 05/09/2023 2359	narr

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides2	Dicamba	23		20	ND
	Dichlorprop	21		20	
	MCPA	21		20	
	2,4-Dichlorophenylacetic Acid	23		20	
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP (Silvex)	22		20	
	Dicamba	24		20	
	Dichlorprop	24		20	
	2,4-Dichlorophenylacetic Acid	21		20	
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides2	2,4,5-TP (Silvex)	25		20	
	Dicamba	27		20	
	Dichlorprop	26		20	
	MCPA	25		20	
	2,4-Dichlorophenylacetic Acid	27		20	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000052.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 14:09:57	Vial:	1
Run Type:	MB	Dilution:	1
Lab ID:	KQ2305790-01	Raw Units:	ppb

Bottle ID:		Tier:	IV	Matrix:	Water
Prod Code:	HERB	Collect Date:	3/23/23	Receive Date:	3/24/23

Analysis Lot:	804089	Prep Lot:	417439	Report Group:	KQ2305790
Analysis Method:	8151A	Prep Method:	Method		
		Prep Date:	3/30/23		

Title:	Chlorinated Herbicides by GC	Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	10.19 ^{-0.01}	9.59	50134137	7406827	53.304 ^{CCV}	56.723 ^{CCV}	43	45	43	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0U	0U	0.033 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	0.045 U	Y
2,4-D	11.40 ^{-0.03}	10.75 ^{-0.04}	425396	131192	0.426	0.952	0.0081U	0.018U	0.036 U	Y
2,4-DB	13.21 ^{-0.01}	12.51 ^{-0.04}	2658196	1881499	11.479	33.794	WRT 0.22J	0.64	i 0.22 J	P Y
Dalapon	0.00	0.00	0	0	0.000	0.000	0U	0U	0.28 U	Y
Dicamba	10.38 ^{-0.06}	9.77 ^{-0.03}	1023761	336563	0.322 ^{CCV}	0.741 ^{CCV}	0.0061U	0.014U	0.025 U	Y
Dichlorprop	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	0.030 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	0.015 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000 ^{CCV}	0U	0U	8.7 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	14 U	Y

Prep Amount: 1050.0000 mL **Dilution:** 1
Prep Final Amount: 20.00 mL **Basis Factor:** 100.00

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

Printed: 5/26/23 15:35

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\050923-HB\05090000052.D Vial: 44
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10-May-2023, 14:09:57 Operator: BB
 Sample : KQ2305790-01 MB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 12 11:27:16 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.193	9.587	50134137	7406827	53.304	56.723
Target Compounds							
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	10.380f	9.773	1023761	336563	0.322	0.741 #
4) m	MCP	0.000	0.000	0	0	N.D.	N.D.
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	11.403	10.750f	425396	131192	0.426	0.952 #
8) m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D. d
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D.
10) m	2,4-DB	13.213	12.513f	2658196	1881499	11.479	33.794 #
11) m	Dinoseb	0.000	0.000	0	0	N.D.	N.D. d

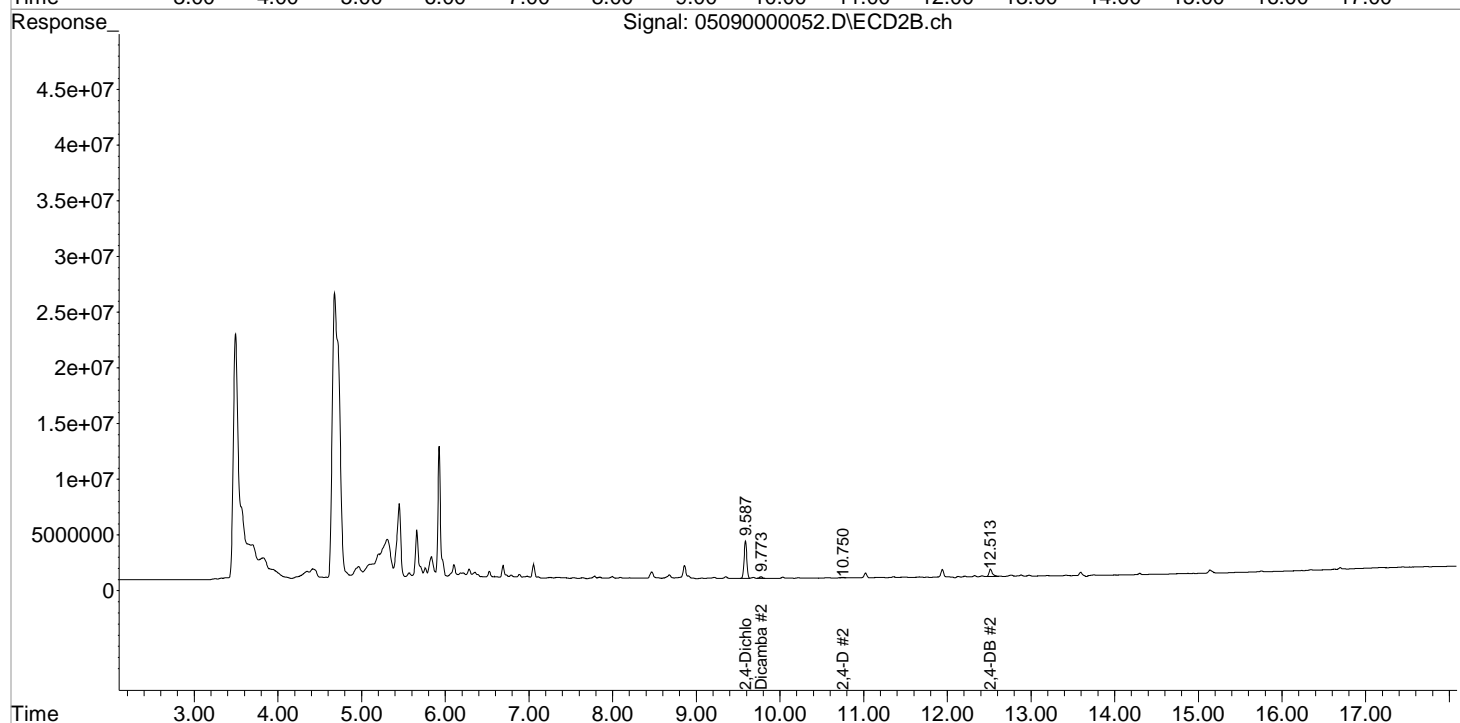
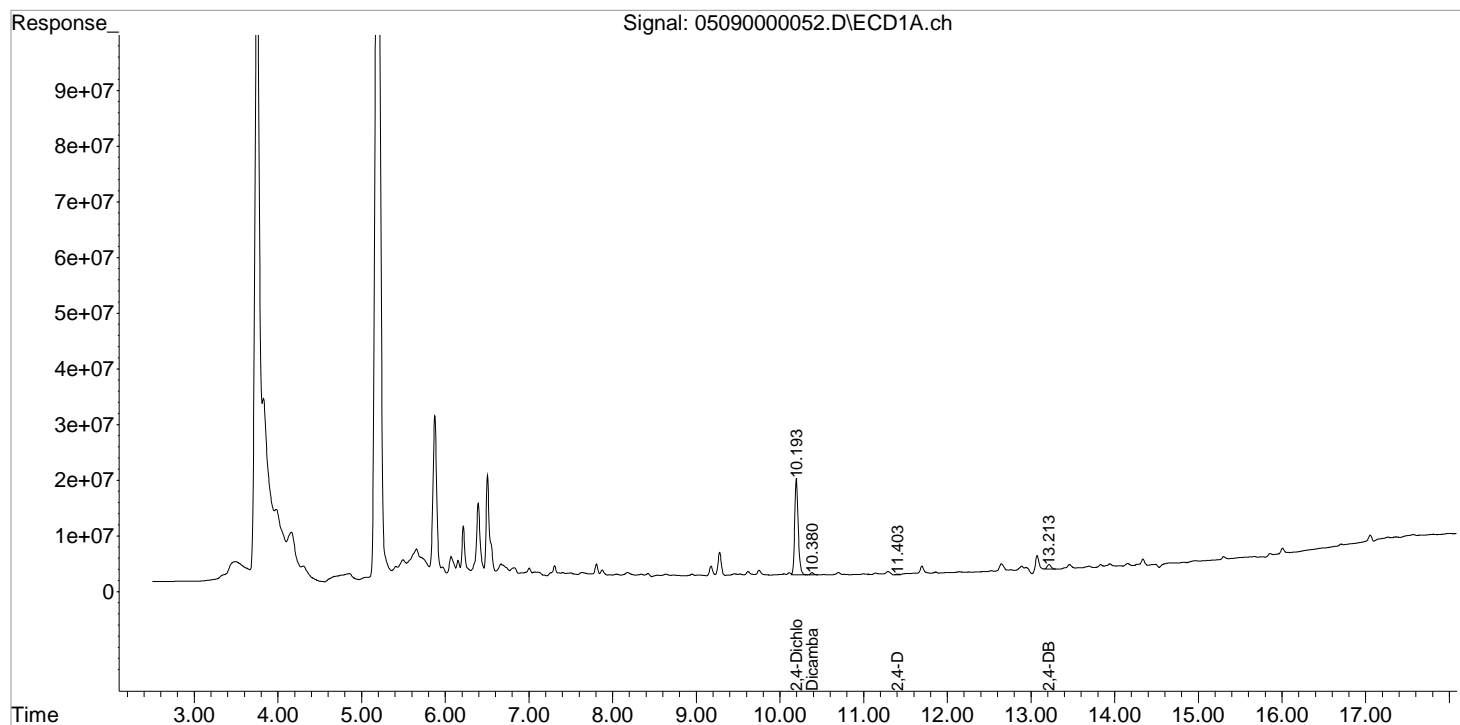
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050923-HB\05090000052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 14:09:57
Sample : KQ2305790-01 MB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 12 11:27:16 2023
Quant Results File: 050823.8151.RES

Vial: 44
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000053.D\
Lab ID: KQ2305790-02
RunType: LCS
Matrix: Water

Date Acquired: 5/10/23 14:33:42
Batch ID: 804089
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time		X
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Continuing Calibration Recovery (Closing)		X
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level		X
Analyte Coelutions	X	

Sample Exceptions

Exception Categories	Result	Corrective Action
Analytical Hold Time	Analysis Date/Time: 05/10/2023 1433 Hold Date/Time: 05/09/2023 2359	narr

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides2	Dicamba	23		20	See quant report
	Dichlorprop	21		20	
	MCPA	21		20	
	2,4-Dichlorophenylacetic Acid	23		20	
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP (Silvex)	22		20	
	Dicamba	24		20	
	Dichlorprop	24		20	
	2,4-Dichlorophenylacetic Acid	21		20	
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides2	2,4,5-TP (Silvex)	25		20	
	Dicamba	27		20	
	Dichlorprop	26		20	
	MCPA	25		20	
	2,4-Dichlorophenylacetic Acid	27		20	
Above Highest ICAL Level - Rtx-CLPesticides	2,4-DB	192.927		189.34	sample ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000053.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 14:33:42	Vial:	2
Run Type:	LCS	Dilution:	1
Lab ID:	KQ2305790-02	Raw Units:	ppb

Bottle ID:		Tier:	IV	Matrix:	Water
Prod Code:	HERB	Collect Date:	3/23/23	Receive Date:	3/24/23

Analysis Lot:	804089	Prep Lot:	417439	Report Group:	KQ2305790
Analysis Method:	8151A	Prep Method:	Method		
		Prep Date:	3/30/23		

Title:	Chlorinated Herbicides by GC	Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	10.19 ^{-0.01}	9.59	85920410	12668085	91.353 ^{CCV}	97.015 ^{CCV}	73 <i>Rpt</i>	78	73	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	12.65	12.04	380195687	51479669	103.814	117.144	2.08	2.34	2.08	Y
2,4,5-TP (Silvex)	12.36	11.64	415084568	52162061	96.585 ^{CCV}	97.471 ^{CCV}	1.93 <i>opening ok Rpt</i>	1.95	1.93	Y
2,4-D	11.43	10.79	90337192	12628912	90.386	91.684	1.81	1.83	1.81	Y
2,4-DB	13.22	12.55	91217575	6120399	192.927	109.930	3.86E	2.20	2.20	P Y
Dalapon	5.68 ^{-0.01}	5.16 ^{-0.01}	123573278	16183406	103.917	80.281	2.08	1.61	1.61	Y
Dicamba	10.44	9.80	311107574	45856882	97.795 ^{CCV}	100.895 ^{CCV}	1.96 <i>Rpt</i>	2.02	1.96	Y
Dichlorprop	11.18	10.47	87442173	12239852	100.175 ^{CCV}	100.877 ^{CCV}	2.00 <i>Rpt</i>	2.02	2.00	Y
Dinoseb	14.46 ^{-0.01}	12.91	266905791	36342117	90.949	95.355	1.82	1.91	1.82	Y
MCPA	10.75	10.10	52589433	7135276	9107.230	9616.645 ^{CCV}	182 <i>Rpt</i>	192	182	Y
MCPP	10.58	9.86	35732170	5425593	8601.430	8673.739	172	173	172	Y

Prep Amount: 1000 mL
Prep Final Amount: 20.00 mL
Dilution: 1
Basis Factor: 100.00

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

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Data File : J:\GC34\DATA\050923-HB\05090000053.D Vial: 45
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10-May-2023, 14:33:42 Operator: BB
 Sample : KQ2305790-02 LCS Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 12 11:31:05 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.193	9.590	85920410	12668085	91.353	97.015
Target Compounds							
1) m	Dalapon	5.683	5.163	123.6E6	16183406	103.917	80.281
3) m	Dicamba	10.437	9.800	311.1E6	45856882	97.795	100.895
4) m	MCP	10.580	9.863	35732170	5425593	8601.430	8673.739
5) m	MCPA	10.747	10.103	52589433	7135276	9107.230	9616.645
6) m	Dichloroprop	11.180	10.470	87442173	12239852	100.175m	100.877
7) m	2,4-D	11.427	10.787	90337192	12628912	90.386	91.684
8) m	2,4,5-TP ...	12.357	11.643	415.1E6	52162061	96.585	97.471
9) m	2,4,5-T	12.653	12.037	380.2E6	51479669	103.814	117.144
10) m	2,4-DB	13.223	12.553	91217575	6120399	192.927	109.930 #
11) m	Dinoseb	14.463	12.910	266.9E6	36342117	90.949	95.355

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

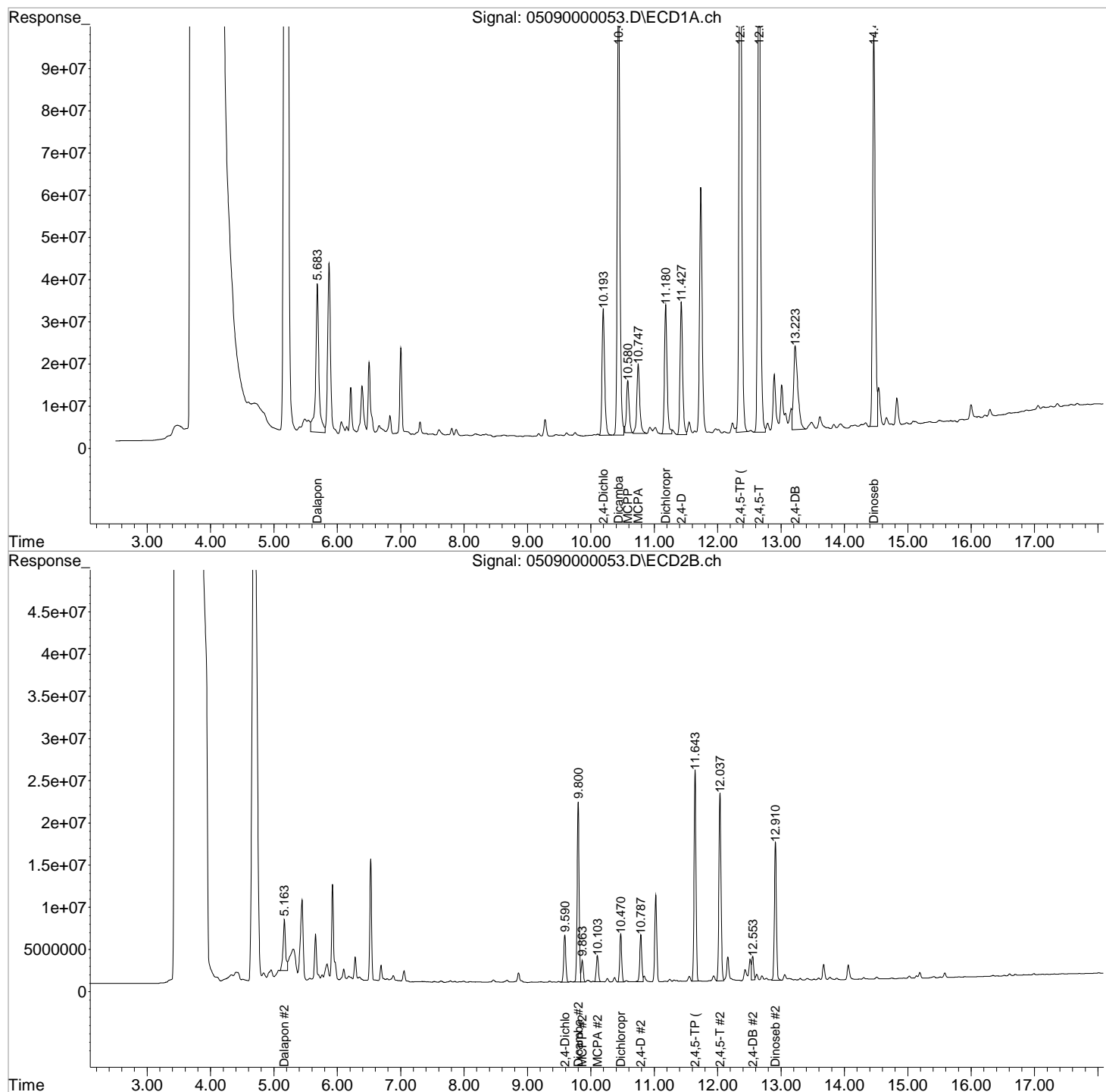
Data File : J:\GC34\DATA\050923-HB\05090000053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 14:33:42
Sample : KQ2305790-02 LCS
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 12 11:31:05 2023
Quant Results File: 050823.8151.RES

Vial: 45

Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



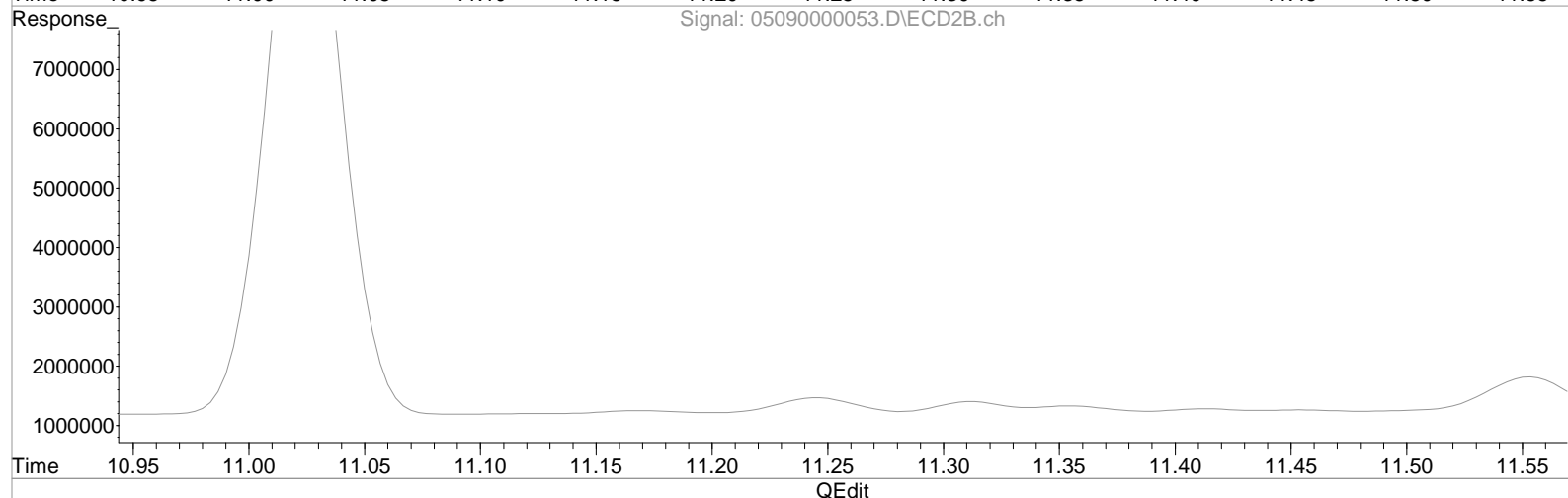
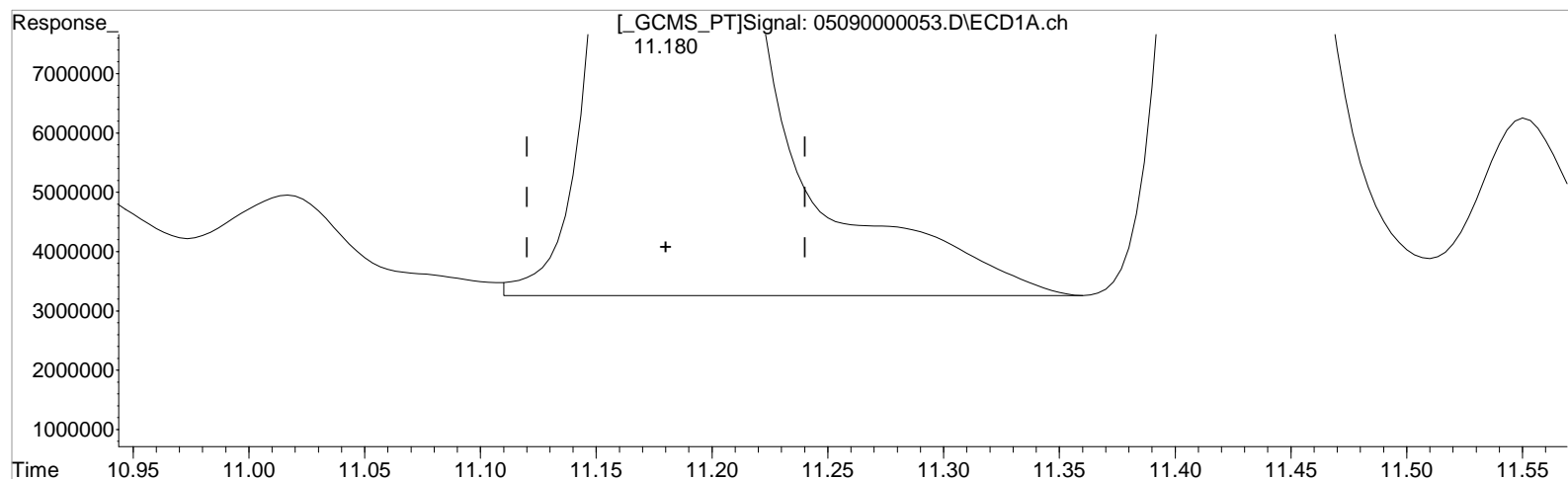
Data File : J:\GC34\DATA\050923-HB\05090000053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 14:33:42
Sample : KQ2305790-02 LCS
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 11 15:55:59 2023
Quant Results File: 050823.8151.RES

Vial: 45

Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(6) Dichloroprop (m)

11.180min 105.485 ppb

response 92076655

Manual Integration:

Before

05/12/23

(6) Dichloroprop #2 (m)

10.470min 100.877 ppb

response 12239852

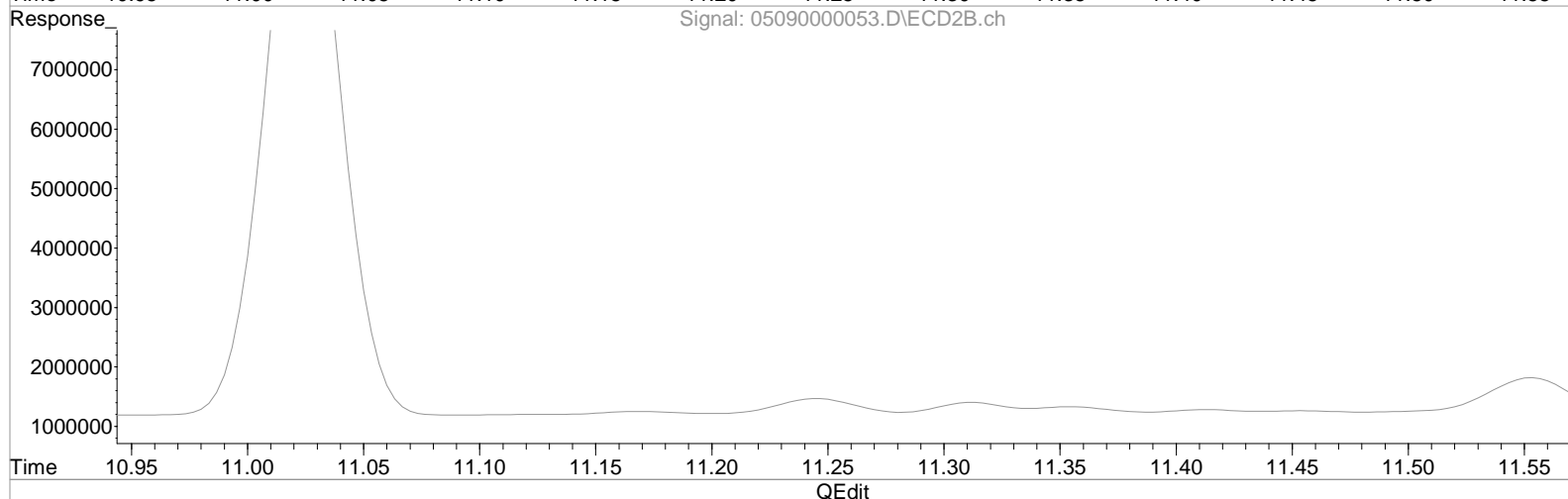
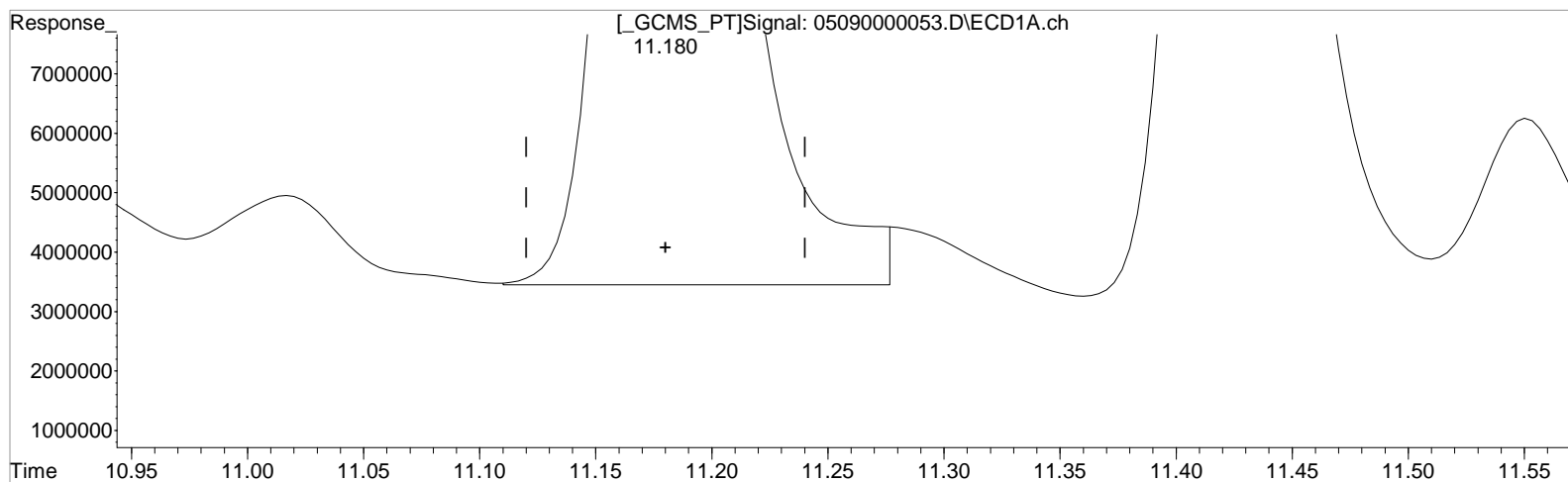
Data File : J:\GC34\DATA\050923-HB\05090000053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 14:33:42
Sample : KQ2305790-02 LCS
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 11 15:55:59 2023
Quant Results File: 050823.8151.RES

Vial: 45

Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(6) Dichloroprop (m)
11.180min 100.175 ppb m
response 87442173

(6) Dichloroprop #2 (m)
10.470min 100.877 ppb
response 12239852

Manual Integration:

After

Baseline/Shoulder

05/12/23

Validation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000054.D\
Lab ID: KQ2305790-03
RunType: DLCS
Matrix: Water

Date Acquired: 5/10/23 14:57:34
Batch ID: 804089
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time		X
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Continuing Calibration Recovery (Closing)		X
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Sample Exceptions

Exception Categories	Result	Corrective Action
Analytical Hold Time	Analysis Date/Time: 05/10/2023 1457 Hold Date/Time: 05/09/2023 2359	narr

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides2	Dicamba	23		20	See quant report
	Dichlorprop	21		20	
	MCPA	21		20	
	2,4-Dichlorophenylacetic Acid	23		20	
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP (Silvex)	22		20	
	Dicamba	24		20	
	Dichlorprop	24		20	
	2,4-Dichlorophenylacetic Acid	21		20	
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides2	2,4,5-TP (Silvex)	25		20	
	Dicamba	27		20	
	Dichlorprop	26		20	
	MCPA	25		20	
	2,4-Dichlorophenylacetic Acid	27		20	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000054.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 14:57:34	Vial:	3
Run Type:	DLCS	Dilution:	1
Lab ID:	KQ2305790-03	Raw Units:	ppb

Bottle ID:		Tier:	IV	Matrix:	Water
Prod Code:	HERB	Collect Date:	3/23/23	Receive Date:	3/24/23

Analysis Lot:	804089	Prep Lot:	417439	Report Group:	KQ2305790
Analysis Method:	8151A	Prep Method:	Method		
		Prep Date:	3/30/23		

Title:	Chlorinated Herbicides by GC	Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?	
2,4-Dichlorophenylacetic Acid	10.19 ^{-0.01}	9.59	87735167	13270879	93.282 ^{CCV}	101.631 ^{CCV}	75	Rpt	81	75	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?	
2,4,5-T	12.65	12.04	392973268	51462050	107.303	117.104	2.15	opening ok Rpt	2.34	2.15	Y
2,4,5-TP (Silvex)	12.36	11.64	427559294	54900856	99.488 ^{CCV}	102.589 ^{CCV}	1.99		2.05	1.99	Y
2,4-D	11.43	10.79	92018442	13076571	92.068	94.934	1.84		1.90	1.84	Y
2,4-DB	13.22	12.55	82867882	6909760	175.819	124.107	3.52		2.48	2.48	Y
Dalapon	5.69	5.17	87632995	12634881	73.693	62.678	1.47		1.25	1.25	Y
Dicamba	10.44	9.80	320453064	47980507	100.733 ^{CCV}	105.567 ^{CCV}	2.01	Rpt	2.11	2.01	Y
Dichlorprop	11.18	10.47	91501641	12921508	104.826 ^{CCV}	106.495 ^{CCV}	2.10	Rpt	2.13	2.10	Y
Dinoseb	14.46 ^{-0.01}	12.91	290433305	39137705	98.966	102.690	1.98		2.05	1.98	Y
MCPA	10.75	10.10	57025577	7480619	9875.463	10119.523 ^{CCV}	198	Rpt	202	198	Y
MCPP	10.58	9.86	42894070	5902637	10325.439	9436.375	207		189	189	Y

Prep Amount: 1000 mL **Dilution:** 1
Prep Final Amount: 20.00 mL **Basis Factor:** 100.00

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

Printed: 5/26/23 15:35

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Data File : J:\GC34\DATA\050923-HB\05090000054.D Vial: 46
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10-May-2023, 14:57:34 Operator: BB
 Sample : KQ2305790-03 DLCS Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 12 11:32:52 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.193	9.587	87735167	13270879	93.282	101.631
Target Compounds							
1) m	Dalapon	5.690	5.170	87632995	12634881	73.693	62.678
3) m	Dicamba	10.437	9.800	320.5E6	47980507	100.733	105.567
4) m	MCP	10.580	9.863	42894070	5902637	10325.439	9436.375
5) m	MCPA	10.747	10.100	57025577	7480619	9875.463	10119.523
6) m	Dichloroprop	11.180	10.470	91501641	12921508	104.826m	106.495
7) m	2,4-D	11.427	10.787	92018442	13076571	92.068	94.934
8) m	2,4,5-TP ...	12.357	11.643	427.6E6	54900856	99.488	102.589
9) m	2,4,5-T	12.653	12.037	393.0E6	51462050	107.303	117.104
10) m	2,4-DB	13.220	12.553	82867882	6909760	175.819	124.107 #
11) m	Dinoseb	14.463	12.910	290.4E6	39137705	98.966	102.690

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

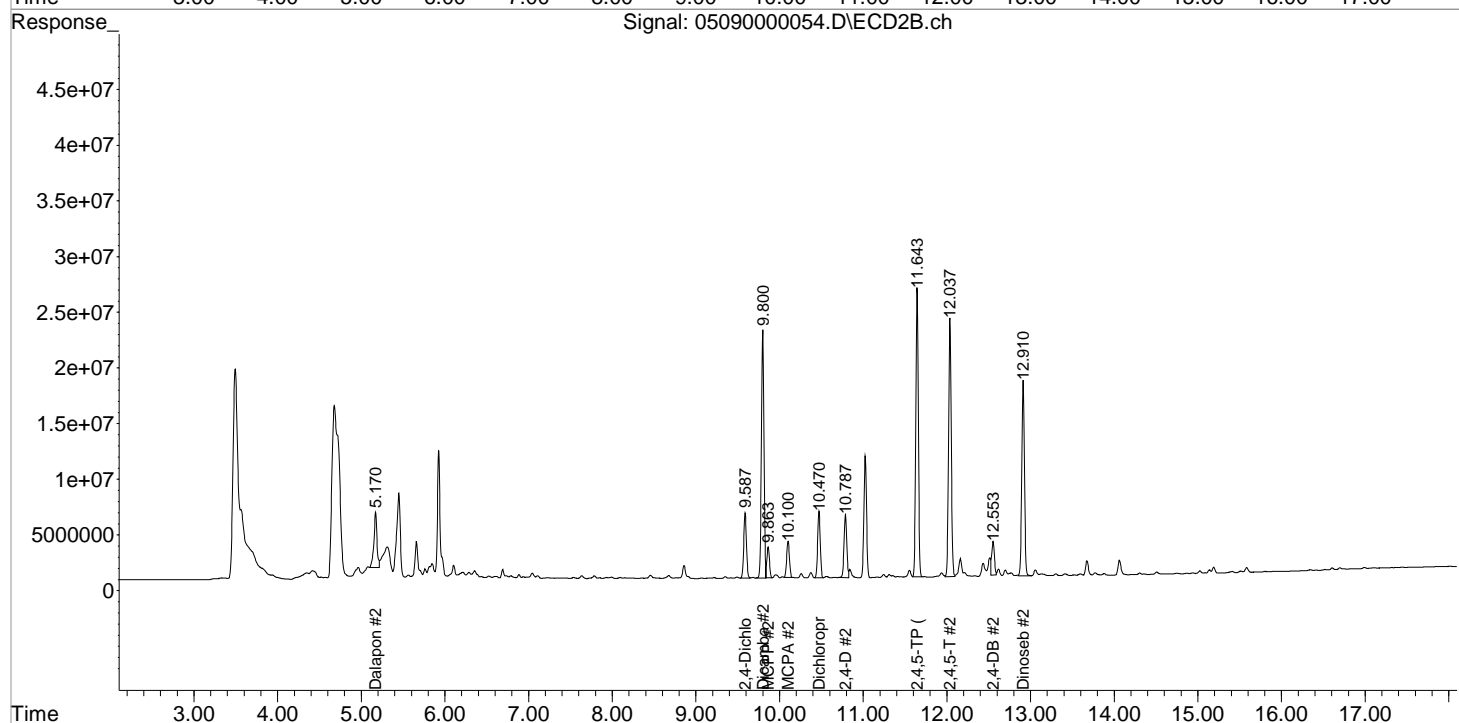
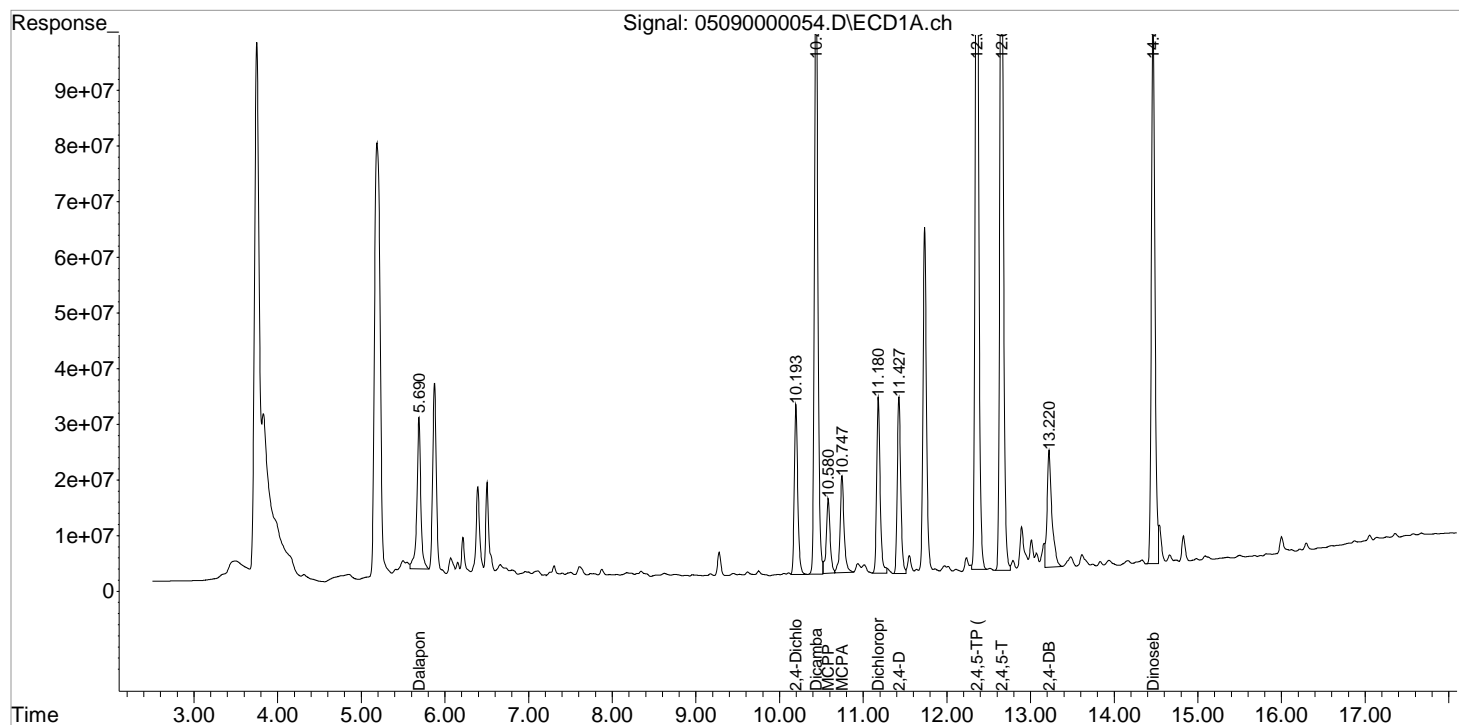
Data File : J:\GC34\DATA\050923-HB\05090000054.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 14:57:34
Sample : KQ2305790-03 DLCS
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 12 11:32:52 2023
Quant Results File: 050823.8151.RES

Vial: 46

Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



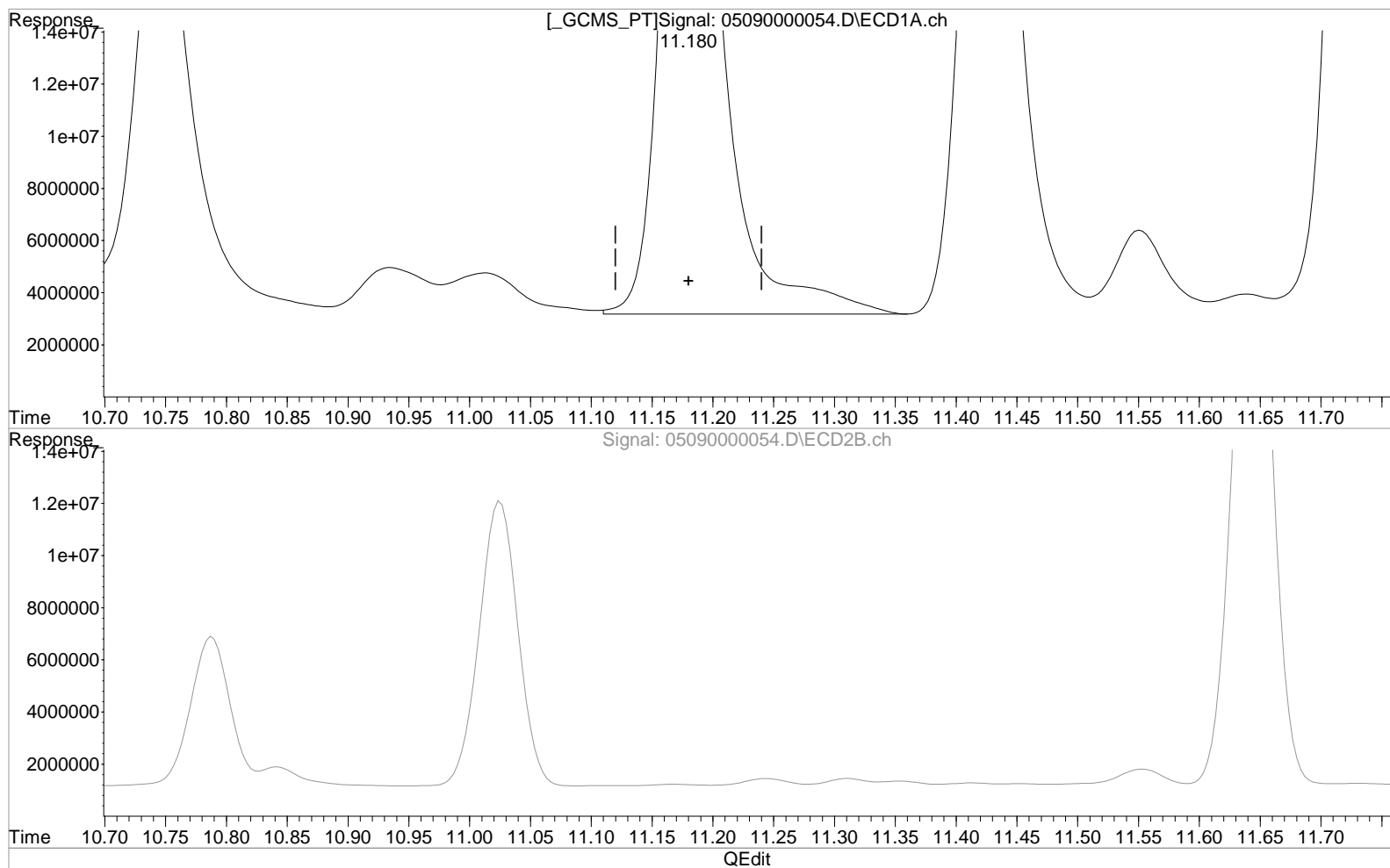
Data File : J:\GC34\DATA\050923-HB\05090000054.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 14:57:34
Sample : KQ2305790-03 DLCS
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 11 15:56:02 2023
Quant Results File: 050823.8151.RES

Vial: 46

Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(6) Dichloroprop (m)
11.180min 108.263 ppb
response 94502014

Manual Integration:

Before

05/12/23

(6) Dichloroprop #2 (m)
10.470min 106.495 ppb
response 12921508

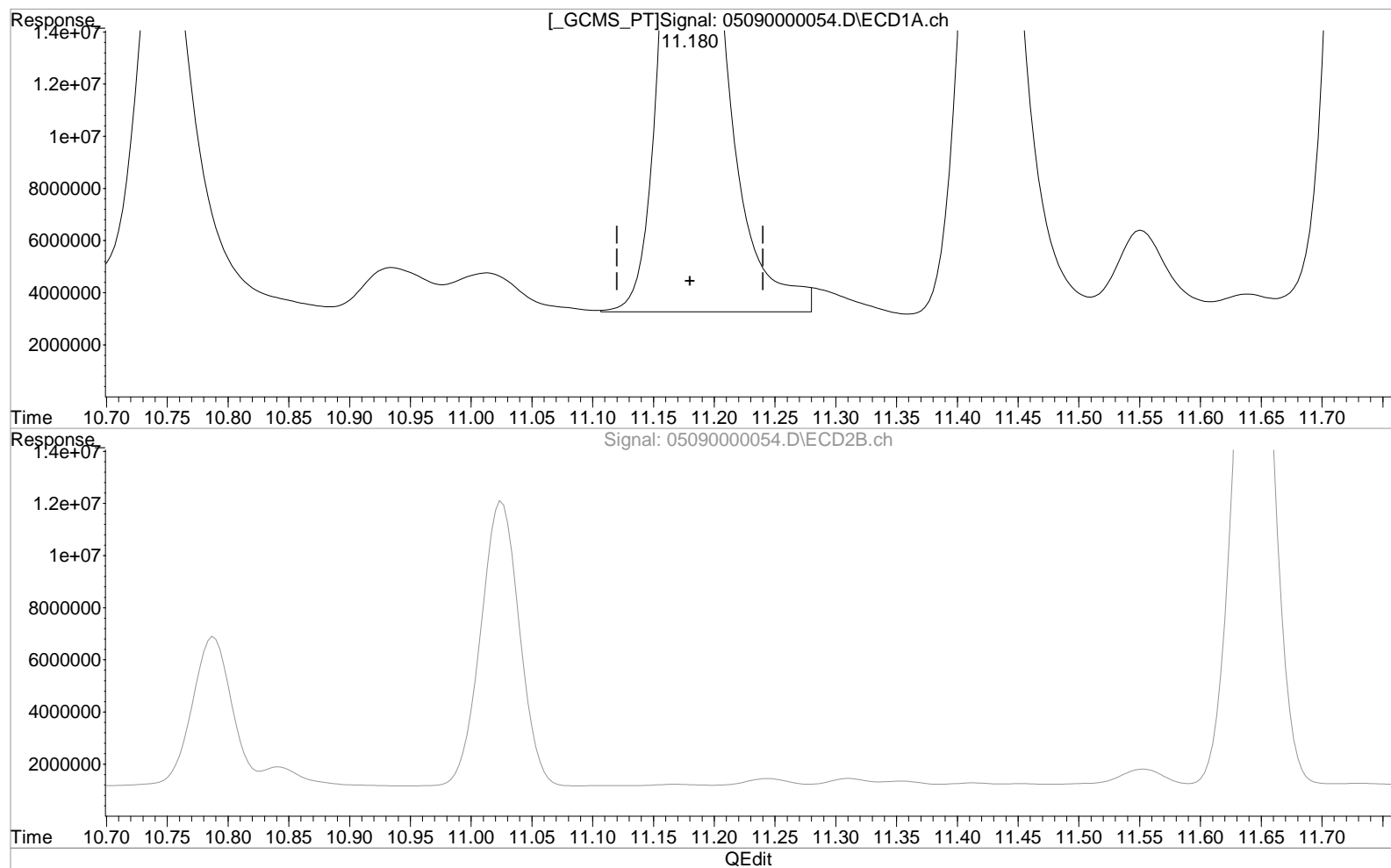
Data File : J:\GC34\DATA\050923-HB\05090000054.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 14:57:34
Sample : KQ2305790-03 DLCS
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 11 15:56:02 2023
Quant Results File: 050823.8151.RES

Vial: 46

Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(6) Dichloroprop (m)
11.180min 104.826 ppb m
response 91501641

(6) Dichloroprop #2 (m)
10.470min 106.495 ppb
response 12921508

Manual Integration:

After

Baseline/Shoulder

05/12/23

Validation Report

1st BB 05/26/23
2nd SM 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000034.D\
Lab ID: KQ2308588-06
RunType: CCB
Matrix: Soil

Date Acquired: 5/10/23 07:01:22
Batch ID: 804064
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Continuing Calibration Recovery (Closing)		X
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action	
Continuing Calibration Recovery - Rtx-CLPesticides2	Dicamba	23		20	CCV+ND	
	Dichlorprop	21		20		
	MCPA	21		20		
	2,4-Dichlorophenylacetic Acid	23		20		
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP (Silvex)	22		20		
	Dicamba	24		20		
	Dichlorprop	24		20		
	2,4-Dichlorophenylacetic Acid	21		20		
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides2	2,4,5-TP (Silvex)	25		20		
	Dicamba	27		20		
	Dichlorprop	26		20		
	MCPA	25		20		
	2,4-Dichlorophenylacetic Acid	27		20		

Primary Review: _____

Secondary Review: _____

Validation Report

1st BB 05/24/23
2nd SM 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000034.D\
Lab ID: KQ2308608-02
RunType: CCB
Matrix: Water

Date Acquired: 5/10/23 07:01:22
Batch ID: 804089
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Continuing Calibration Recovery (Closing)		X
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides2	Dicamba	23		20	ND
	Dichlorprop	21		20	
	MCPA	21		20	
	2,4-Dichlorophenylacetic Acid	23		20	
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP (Silvex)	22		20	
	Dicamba	24		20	
	Dichlorprop	24		20	
	2,4-Dichlorophenylacetic Acid	21		20	
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides2	2,4,5-TP (Silvex)	25		20	
	Dicamba	27		20	
	Dichlorprop	26		20	
	MCPA	25		20	
	2,4-Dichlorophenylacetic Acid	27		20	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *B B* 05/26/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000034.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 07:01:22	Vial:	26
Run Type:	CCB	Dilution:	1
Lab ID:	KQ2308588-06	Raw Units:	ppb
Bottle ID:		Tier:	II
Prod Code:	HERB	Collect Date:	3/23/23
		Matrix:	Soil
		Receive Date:	3/29/23
Analysis Lot:	804064	Prep Lot:	
Analysis Method:	8151A	Prep Method:	
		Prep Date:	
Report Group:	KQ2308588		
Title:	Chlorinated Herbicides by GC		
		Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0U	0U	4.0 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	2.4 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	5.4 U	Y
Dalapon	0.00	0.00	0	0	0.000	0.000	0U	0U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	4.3 U	Y
Dichlorprop	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	3.4 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	2.7 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000 ^{CCV}	0U	0U	320 U	Y
MCP	0.00	0.00	0	0	0.000	0.000	0U	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

Printed: 5/26/23 13:01

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Quantitation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000034.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 07:01:22	Vial:	9
Run Type:	CCB	Dilution:	1
Lab ID:	KQ2308608-02	Raw Units:	ppb
Bottle ID:		Tier:	II
Prod Code:	HERB	Collect Date:	3/24/23
		Matrix:	Water
		Receive Date:	3/27/23
Analysis Lot:	804089	Prep Lot:	
Analysis Method:	8151A	Prep Method:	
		Prep Date:	
Report Group:	KQ2308608		
Title:	Chlorinated Herbicides by GC		
		Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}				17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0U	0U	0.033 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	0.045 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	0.036 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	0.10 U	Y
Dalapon	0.00	0.00	0	0	0.000	0.000	0U	0U	0.28 U	Y
Dicamba	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	0.025 U	Y
Dichlorprop	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	0.030 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	0.015 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000 ^{CCV}	0U	0U	8.7 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	14 U	Y

Prep Amount: 1000 mL **Dilution:** 1
Prep Final Amount: 20.00 mL **Basis Factor:** 100.00

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

Printed: 5/26/23 15:35

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Data File : J:\GC34\DATA\050923-HB\05090000034.D Vial: 99
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10-May-2023, 07:01:22 Operator: BB
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 11 12:16:28 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	0.000	0.000	0	0	N.D.	N.D.
Target Compounds							
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D.	N.D.
4) m	MCP	0.000	0.000	0	0	N.D.	N.D.
5) m	MCPA	0.000	0.000	0	0	N.D.	N.D.
6) m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m	2,4-D	0.000	0.000	0	0	N.D.	N.D.
8) m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m	2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m	2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11) m	Dinoseb	0.000	0.000	0	0	N.D.	N.D.

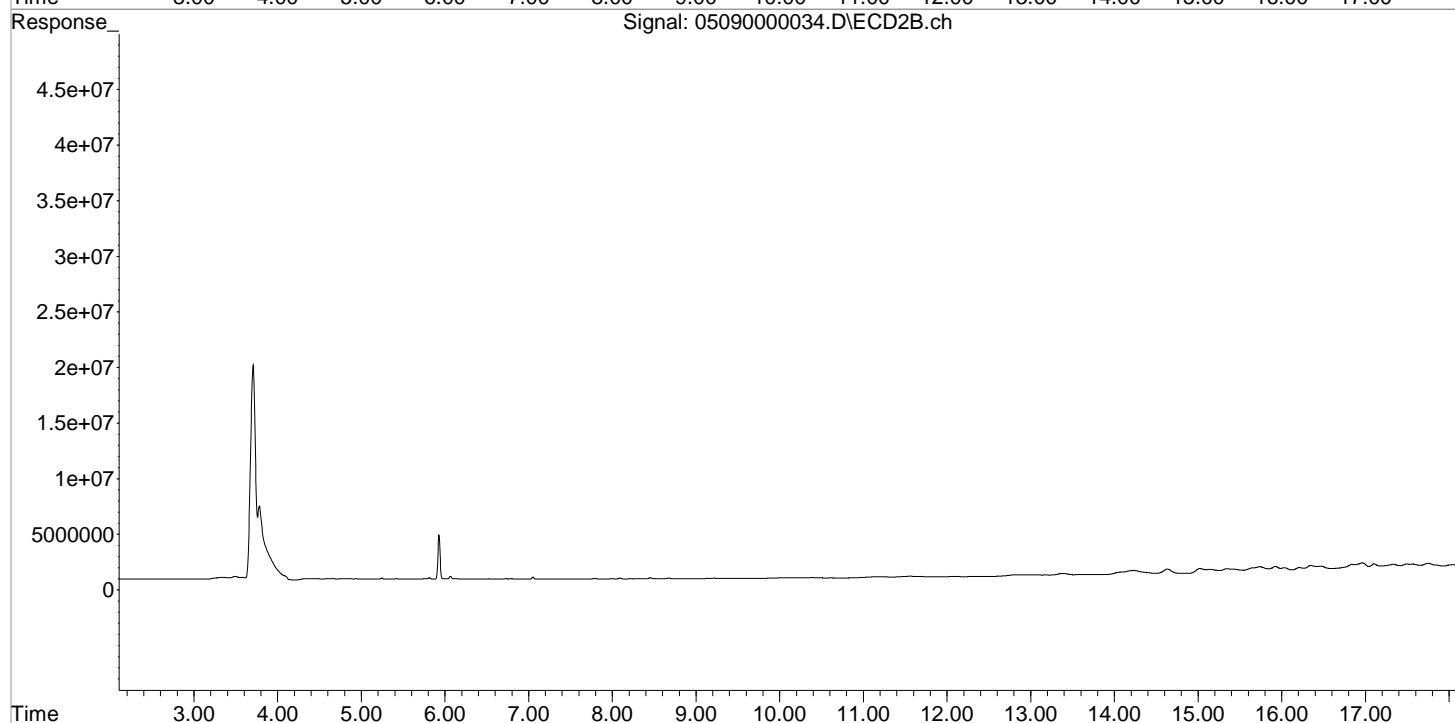
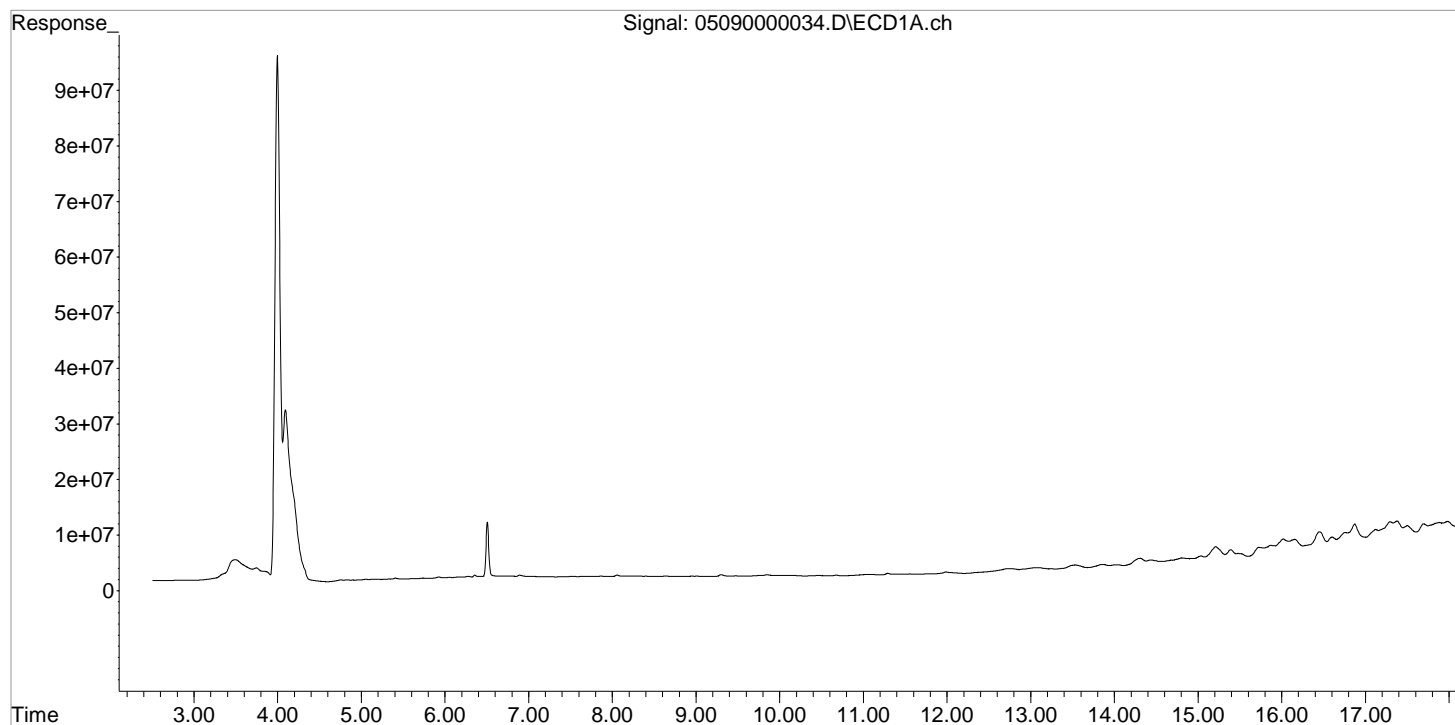
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050923-HB\05090000034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 07:01:22
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 11 12:16:28 2023
Quant Results File: 050823.8151.RES

Vial: 99
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st *B B* 05/26/23
2nd *SM* 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000059.D\
Lab ID: KQ2308588-08
RunType: CCB
Matrix: Soil

Date Acquired: 5/10/23 16:56:22
Batch ID: 804064
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP (Silvex)	22		20	CCV+ND
	Dicamba	24		20	
	Dichlorprop	24		20	
	2,4-Dichlorophenylacetic Acid	21		20	
Continuing Calibration Recovery - Rtx-CLPesticides2	2,4,5-TP (Silvex)	25		20	
	Dicamba	27		20	
	Dichlorprop	26		20	
	MCPA	25		20	
	2,4-Dichlorophenylacetic Acid	27		20	

Primary Review: _____

Secondary Review: _____

Validation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000059.D\
Lab ID: KQ2308608-04
RunType: CCB
Matrix: Water

Date Acquired: 5/10/23 16:56:22
Batch ID: 804089
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP (Silvex)	22		20	ND
	Dicamba	24		20	
	Dichlorprop	24		20	
	2,4-Dichlorophenylacetic Acid	21		20	
Continuing Calibration Recovery - Rtx-CLPesticides2	2,4,5-TP (Silvex)	25		20	
	Dicamba	27		20	
	Dichlorprop	26		20	
	MCPA	25		20	
	2,4-Dichlorophenylacetic Acid	27		20	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *B B* 05/26/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000059.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 16:56:22	Vial:	24
Run Type:	CCB	Dilution:	1
Lab ID:	KQ2308588-08	Raw Units:	ppb
Bottle ID:		Tier:	II
Prod Code:	HERB	Collect Date:	3/23/23
		Matrix:	Soil
		Receive Date:	3/29/23
Analysis Lot:	804064	Prep Lot:	
Analysis Method:	8151A	Prep Method:	
		Prep Date:	
Report Group:	KQ2308588		
Title:	Chlorinated Herbicides by GC		
		Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0U	0U	4.0 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	2.4 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	5.4 U	Y
Dalapon	0.00	0.00	0	0	0.000	0.000	0U	0U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	4.3 U	Y
Dichlorprop	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	3.4 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	2.7 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000 ^{CCV}	0U	0U	320 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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Quantitation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000059.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 16:56:22	Vial:	7
Run Type:	CCB	Dilution:	1
Lab ID:	KQ2308608-04	Raw Units:	ppb

Bottle ID:		Tier:	II	Matrix:	Water
Prod Code:	HERB	Collect Date:	3/24/23	Receive Date:	3/27/23

Analysis Lot:	804089	Prep Lot:		Report Group:	KQ2308608
Analysis Method:	8151A	Prep Method:			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}				17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0U	0U	0.033 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	0.045 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	0.036 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	0.10 U	Y
Dalapon	0.00	0.00	0	0	0.000	0.000	0U	0U	0.28 U	Y
Dicamba	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	0.025 U	Y
Dichlorprop	0.00	0.00	0	0	0.000 ^{CCV}	0.000 ^{CCV}	0U	0U	0.030 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	0.015 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000 ^{CCV}	0U	0U	8.7 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	14 U	Y

Prep Amount: 1000 mL **Dilution:** 1
Prep Final Amount: 20.00 mL **Basis Factor:** 100.00

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

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Data File : J:\GC34\DATA\050923-HB\05090000059.D Vial: 99
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10-May-2023, 16:56:22 Operator: BB
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 12 11:54:44 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	0.000	0.000	0	0	N.D.	N.D.
Target Compounds							
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D.	N.D.
4) m	MCP	0.000	0.000	0	0	N.D.	N.D.
5) m	MCPA	0.000	0.000	0	0	N.D.	N.D.
6) m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m	2,4-D	0.000	0.000	0	0	N.D.	N.D.
8) m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m	2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m	2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11) m	Dinoseb	0.000	0.000	0	0	N.D.	N.D.

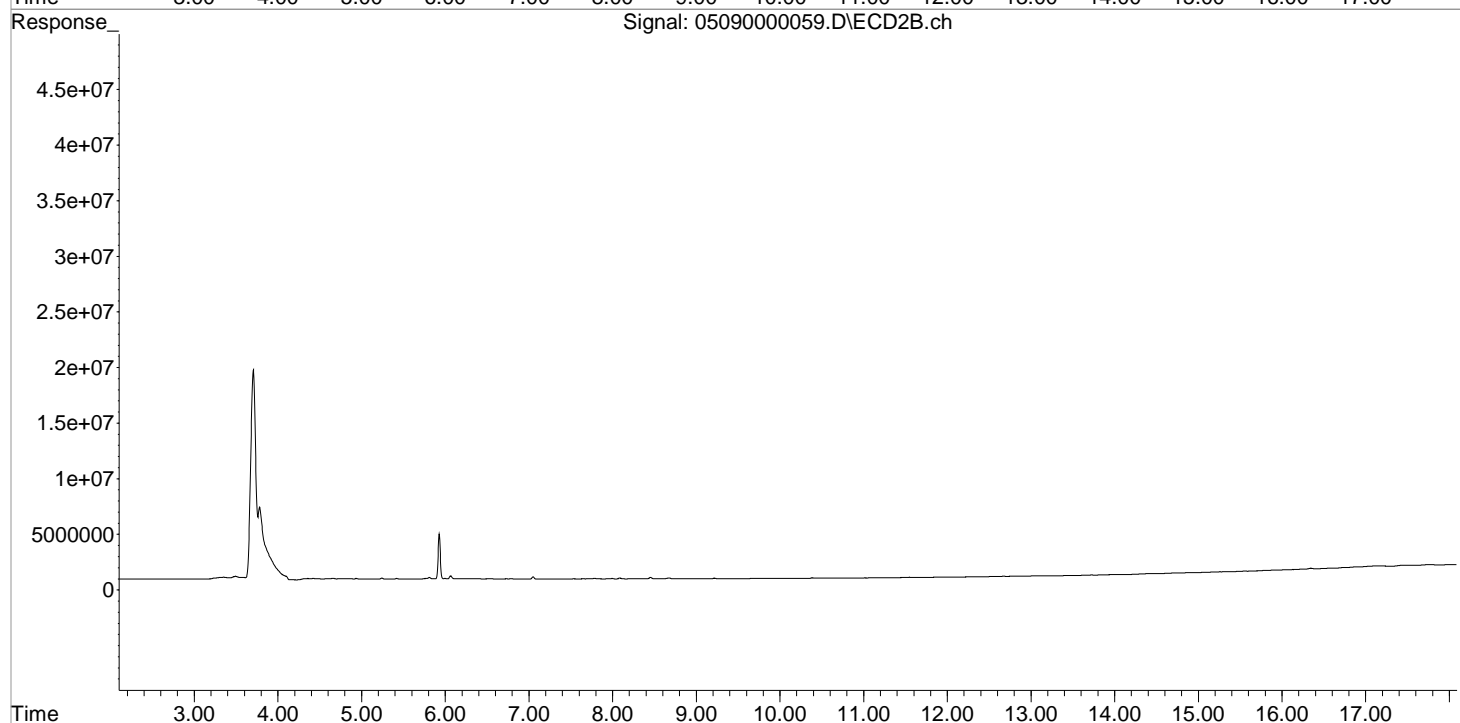
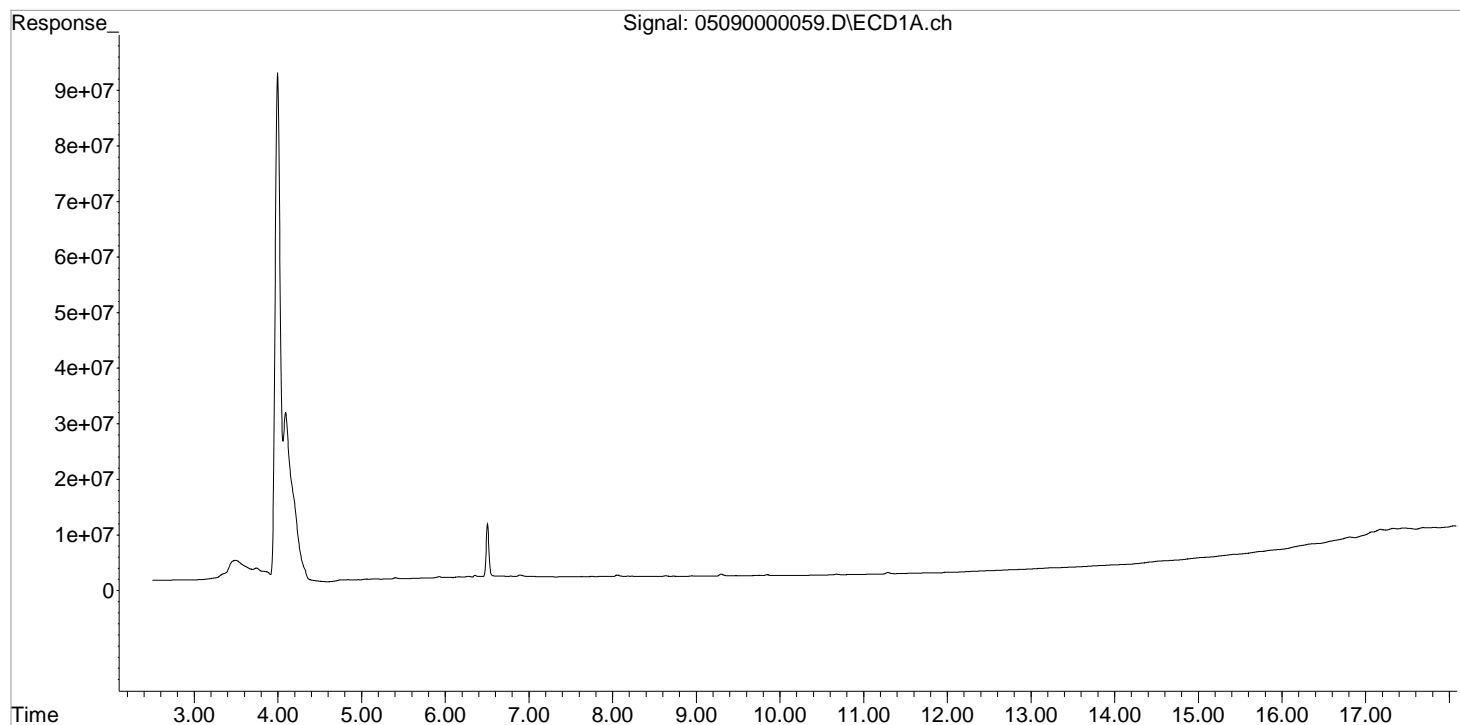
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050923-HB\05090000059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 16:56:22
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 12 11:54:44 2023
Quant Results File: 050823.8151.RES

Vial: 99
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st *B B* 05/26/23
2nd *SM* 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000033.D\
Lab ID: KQ2308588-05
RunType: CCV
Matrix: Soil

Date Acquired: 5/10/23 06:37:31
Batch ID: 804064
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Validation Report

1st BB 05/24/23
2nd SM 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000033.D\
Lab ID: KQ2308608-01
RunType: CCV
Matrix: Water

Date Acquired: 5/10/23 06:37:31
Batch ID: 804089
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *B B* 05/26/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000033.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 06:37:31	Vial:	27
Run Type:	CCV	Dilution:	1
Lab ID:	KQ2308588-05	Raw Units:	ppb

Bottle ID:		Tier:	II	Matrix:	Soil
Prod Code:	HERB	Collect Date:	3/23/23	Receive Date:	3/29/23

Analysis Lot:	804064	Prep Lot:		Report Group:	KQ2308588
Analysis Method:	8151A	Prep Method:			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
2,4-Dichlorophenylacetic Acid	10.20	9.59	101709414	14436914	108.140	110.561			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-T	12.65	12.04	382942263	47072359	104.564	107.115	105	107	Y
2,4,5-TP (Silvex)	12.36	11.64	479314864	60998239	111.530	113.983	112	114	Y
2,4-D	11.43	10.79	105080608	14682686	105.137	106.594	105	107	Y
2,4-DB	13.22	12.55	46427633	6097839	101.157	109.524	101	110	Y
Dalapon	5.69	5.17	101980682	17966720	85.759	89.127	85.8	89.1	Y
Dicamba	10.44	9.80	356603135	52442404	112.096	115.385	112	115	Y
Dichlorprop	11.18	10.47	98097680	13842863	112.382	114.089	112	114	Y
Dinoseb	14.47	12.91	319010877	42360090	108.704	111.145	109	111	Y
MCPA	10.75	10.10	57365250	8282992	9934.287	11287.913	9930	11300	Y
MCPP	10.58	9.86	43707761	6665676	10521.310	10656.224	10500	10700	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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Quantitation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000033.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 06:37:31	Vial:	10
Run Type:	CCV	Dilution:	1
Lab ID:	KQ2308608-01	Raw Units:	ppb
Bottle ID:		Tier:	II
Prod Code:	HERB	Collect Date:	3/24/23
		Matrix:	Water
		Receive Date:	3/27/23
Analysis Lot:	804089	Prep Lot:	
Analysis Method:	8151A	Prep Method:	
		Prep Date:	
Report Group:	KQ2308608		
Title:	Chlorinated Herbicides by GC	Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
2,4-Dichlorophenylacetic Acid	10.20	9.59	101709414	14436914	108.140	110.561			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-T	12.65	12.04	382942263	47072359	104.564	107.115	105	107	Y
2,4,5-TP (Silvex)	12.36	11.64	479314864	60998239	111.530	113.983	112	114	Y
2,4-D	11.43	10.79	105080608	14682686	105.137	106.594	105	107	Y
2,4-DB	13.22	12.55	46427633	6097839	101.157	109.524	101	110	Y
Dalapon	5.69	5.17	101980682	17966720	85.759	89.127	85.8	89.1	Y
Dicamba	10.44	9.80	356603135	52442404	112.096	115.385	112	115	Y
Dichlorprop	11.18	10.47	98097680	13842863	112.382	114.089	112	114	Y
Dinoseb	14.47	12.91	319010877	42360090	108.704	111.145	109	111	Y
MCPA	10.75	10.10	57365250	8282992	9934.287	11287.913	9930	11300	Y
MCPP	10.58	9.86	43707761	6665676	10521.310	10656.224	10500	10700	Y

Prep Amount: 1000 mL **Dilution:** 1
Prep Final Amount: 20.00 mL **Basis Factor:** 100.00

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 : J:\GC34\DATA\050923-HB\05090000033.D Vial: 98
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10-May-2023, 06:37:31 Operator: BB
 Sample : PENTA02-67K 100PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 10 12:09:33 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.197	9.587	101.7E6	14436914	108.140	110.561
Target Compounds							
1) m	Dalapon	5.690	5.170	102.0E6	17966720	85.759	89.127
3) m	Dicamba	10.437	9.800	356.6E6	52442404	112.096	115.385
4) m	MCPD	10.583	9.863	43707761	6665676	10521.310	10656.224
5) m	MCPA	10.747	10.103	57365250	8282992	9934.287	11287.913
6) m	Dichloroprop	11.180	10.470	98097680	13842863	112.382	114.089
7) m	2,4-D	11.427	10.787	105.1E6	14682686	105.137	106.594
8) m	2,4,5-TP ...	12.357	11.643	479.3E6	60998239	111.530	113.983
9) m	2,4,5-T	12.653	12.037	382.9E6	47072359	104.564	107.115
10) m	2,4-DB	13.220	12.553	46427633	6097839	101.157	109.524
11) m	Dinoseb	14.467	12.913	319.0E6	42360090	108.704	111.145

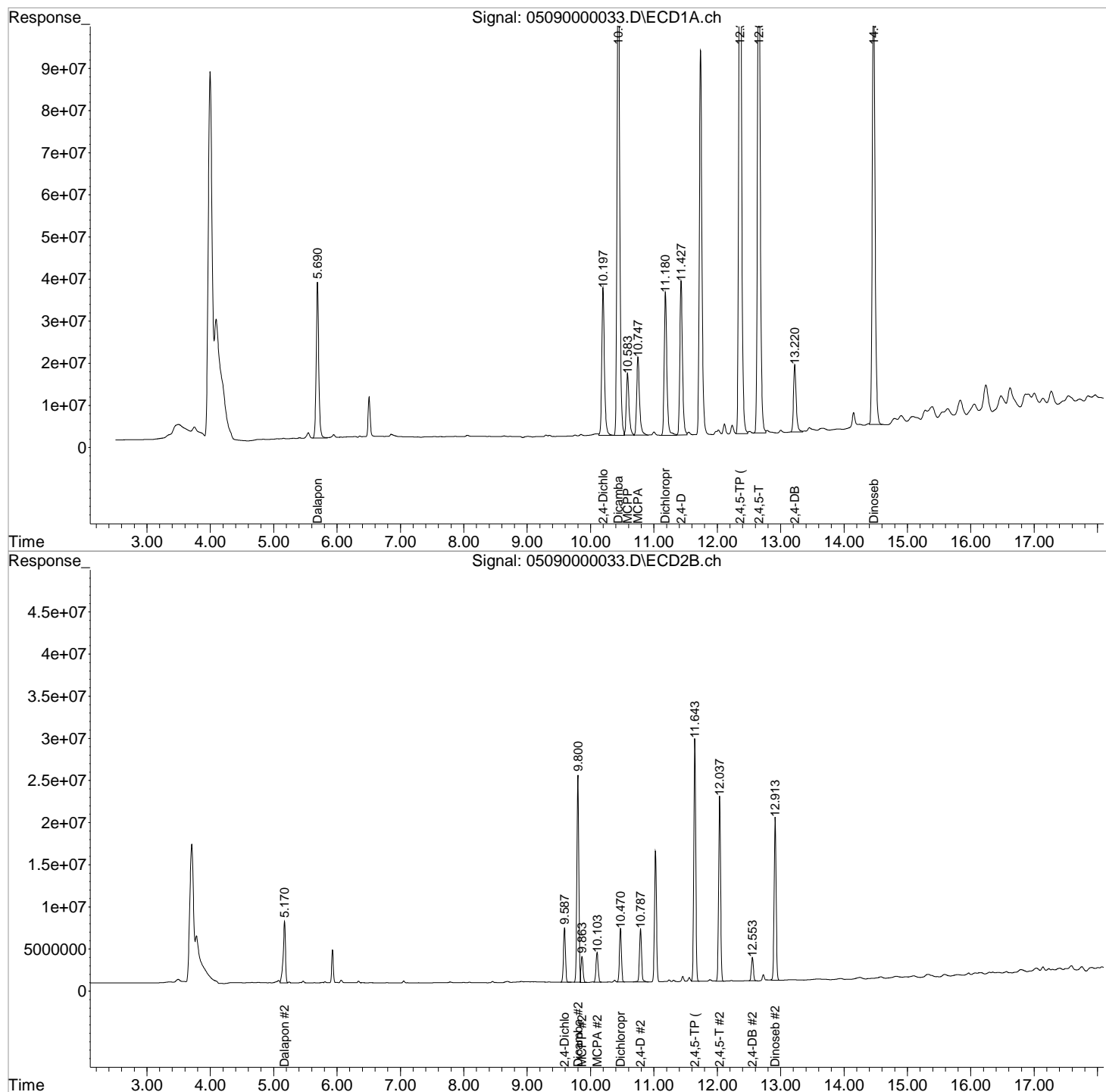
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050923-HB\05090000033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 06:37:31
Sample : PENTA02-67K 100PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 10 12:09:33 2023
Quant Results File: 050823.8151.RES

Vial: 98
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st BB 05/26/23
2nd SM 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000058.D\
Lab ID: KQ2308588-07
RunType: CCV
Matrix: Soil

Date Acquired: 5/10/23 16:32:36
Batch ID: 804064
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Validation Report

1st BB 05/24/23
2nd SM 05/27/23

Data File: J:\GC34\DATA\050923-HB\05090000058.D\
Lab ID: KQ2308608-03
RunType: CCV
Matrix: Water

Date Acquired: 5/10/23 16:32:36
Batch ID: 804089
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *B B* 05/26/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000058.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 16:32:36	Vial:	25
Run Type:	CCV	Dilution:	1
Lab ID:	KQ2308588-07	Raw Units:	ppb

Bottle ID:		Tier:	II	Matrix:	Soil
Prod Code:	HERB	Collect Date:	3/23/23	Receive Date:	3/29/23

Analysis Lot:	804064	Prep Lot:		Report Group:	KQ2308588
Analysis Method:	8151A	Prep Method:			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
2,4-Dichlorophenylacetic Acid	10.19	9.59	102883916	14986687	109.389	114.771			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-T	12.65	12.03	395982221	49020594	108.124	111.548	108	112	Y
2,4,5-TP (Silvex)	12.36	11.64	498429757	63760069	115.978	119.144	116	119	Y
2,4-D	11.43	10.79	108697547	15230875	108.756	110.574	109	111	Y
2,4-DB	13.22	12.55	47317174	6288680	102.980	112.952	103	113	Y
Dalapon	5.69	5.17	103031222	18294059	86.642	90.751	86.6	90.8	Y
Dicamba	10.43	9.80	369657743	54075241	116.200	118.977	116	119	Y
Dichlorprop	11.18	10.47	101870010	14387819	116.704	118.580	117	119	Y
Dinoseb	14.46	12.91	329503313	43329637	112.279	113.689	112	114	Y
MCPA	10.75	10.10	60368565	8561338	10454.389	11693.232	10500	11700	Y
MCPP	10.58	9.86	44056932	7011979	10605.362	11209.849	10600	11200	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

Printed: 5/26/23 13:01

\\alprews001\starlims\LIMSRpts\QuantValidation.rpt

Quantitation Report

1st *B B* 05/24/23
2nd *SM* 05/27/23

Data File:	J:\GC34\DATA\050923-HB\05090000058.D\	Instrument:	K-GC-34
Acqu Date:	5/10/23 16:32:36	Vial:	8
Run Type:	CCV	Dilution:	1
Lab ID:	KQ2308608-03	Raw Units:	ppb

Bottle ID:		Tier:	II	Matrix:	Water
Prod Code:	HERB	Collect Date:	3/24/23	Receive Date:	3/27/23

Analysis Lot:	804089	Prep Lot:		Report Group:	KQ2308608
Analysis Method:	8151A	Prep Method:			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	Calibration ID:	KC2300309
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
2,4-Dichlorophenylacetic Acid	10.19	9.59	102883916	14986687	109.389	114.771			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-T	12.65	12.03	395982221	49020594	108.124	111.548	108	112	Y
2,4,5-TP (Silvex)	12.36	11.64	498429757	63760069	115.978	119.144	116	119	Y
2,4-D	11.43	10.79	108697547	15230875	108.756	110.574	109	111	Y
2,4-DB	13.22	12.55	47317174	6288680	102.980	112.952	103	113	Y
Dalapon	5.69	5.17	103031222	18294059	86.642	90.751	86.6	90.8	Y
Dicamba	10.43	9.80	369657743	54075241	116.200	118.977	116	119	Y
Dichlorprop	11.18	10.47	101870010	14387819	116.704	118.580	117	119	Y
Dinoseb	14.46	12.91	329503313	43329637	112.279	113.689	112	114	Y
MCPA	10.75	10.10	60368565	8561338	10454.389	11693.232	10500	11700	Y
MCPP	10.58	9.86	44056932	7011979	10605.362	11209.849	10600	11200	Y

Prep Amount: 1000 mL **Dilution:** 1
Prep Final Amount: 20.00 mL **Basis Factor:** 100.00

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

Printed: 5/26/23 15:35

\\alprews001\starlims\LIMSRpts\QuantValidation.rpt

Data File : J:\GC34\DATA\050923-HB\05090000058.D Vial: 98
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10-May-2023, 16:32:36 Operator: BB
 Sample : PENTA02-67K 100PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 11 15:56:14 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.193	9.587	102.9E6	14986687	109.389	114.771
Target Compounds							
1) m	Dalapon	5.690	5.170	103.0E6	18294059	86.642	90.751
3) m	Dicamba	10.433	9.797	369.7E6	54075241	116.200	118.977
4) m	MCP	10.580	9.863	44056932	7011979	10605.362	11209.849
5) m	MCPA	10.747	10.103	60368565	8561338	10454.389	11693.232
6) m	Dichloroprop	11.180	10.470	101.9E6	14387819	116.704	118.580
7) m	2,4-D	11.427	10.787	108.7E6	15230875	108.756	110.574
8) m	2,4,5-TP ...	12.357	11.643	498.4E6	63760069	115.978	119.144
9) m	2,4,5-T	12.650	12.033	396.0E6	49020594	108.124	111.548
10) m	2,4-DB	13.220	12.553	47317174	6288680	102.980	112.952
11) m	Dinoseb	14.463	12.910	329.5E6	43329637	112.279	113.689

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050923-HB\05090000058.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-May-2023, 16:32:36
Sample : PENTA02-67K 100PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 11 15:56:14 2023
Quant Results File: 050823.8151.RES

Vial: 98

Operator: BB
Inst : GCI
Multiplr: 1.00

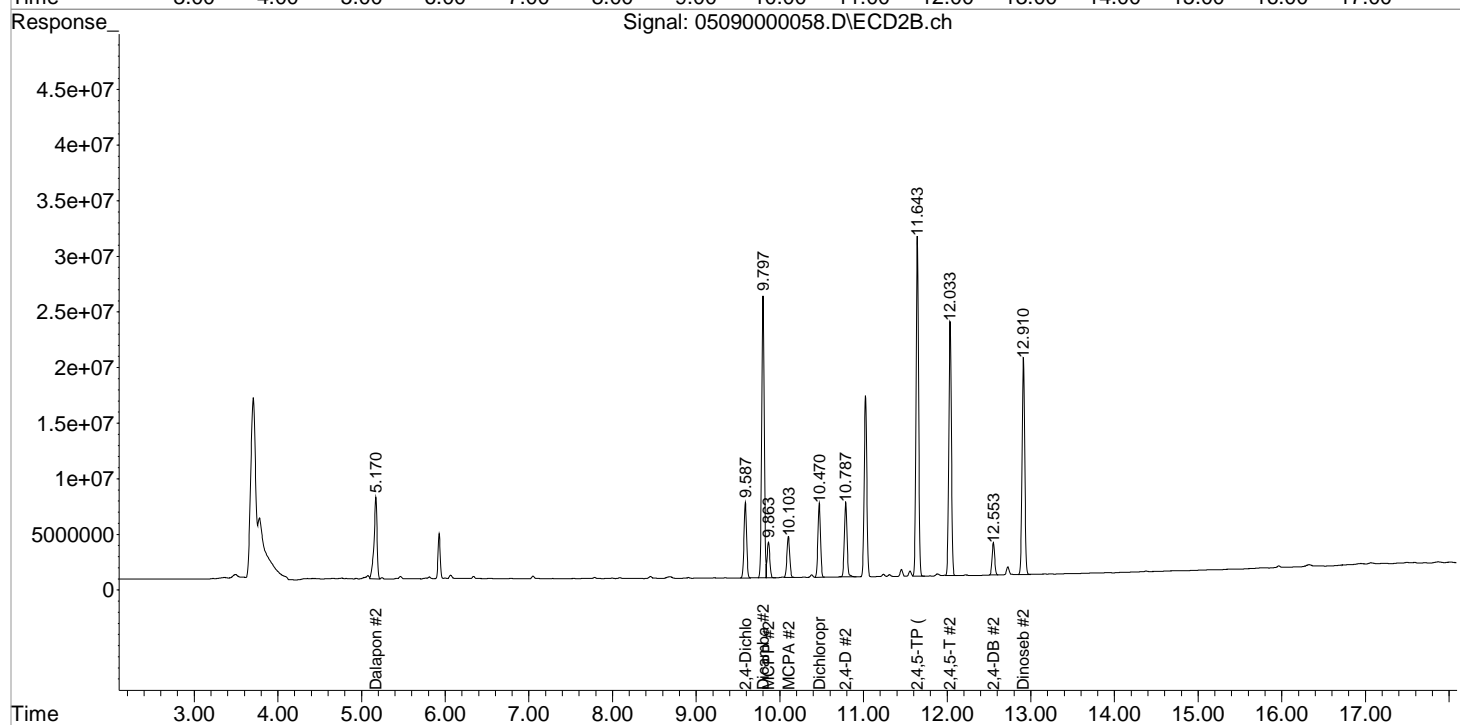
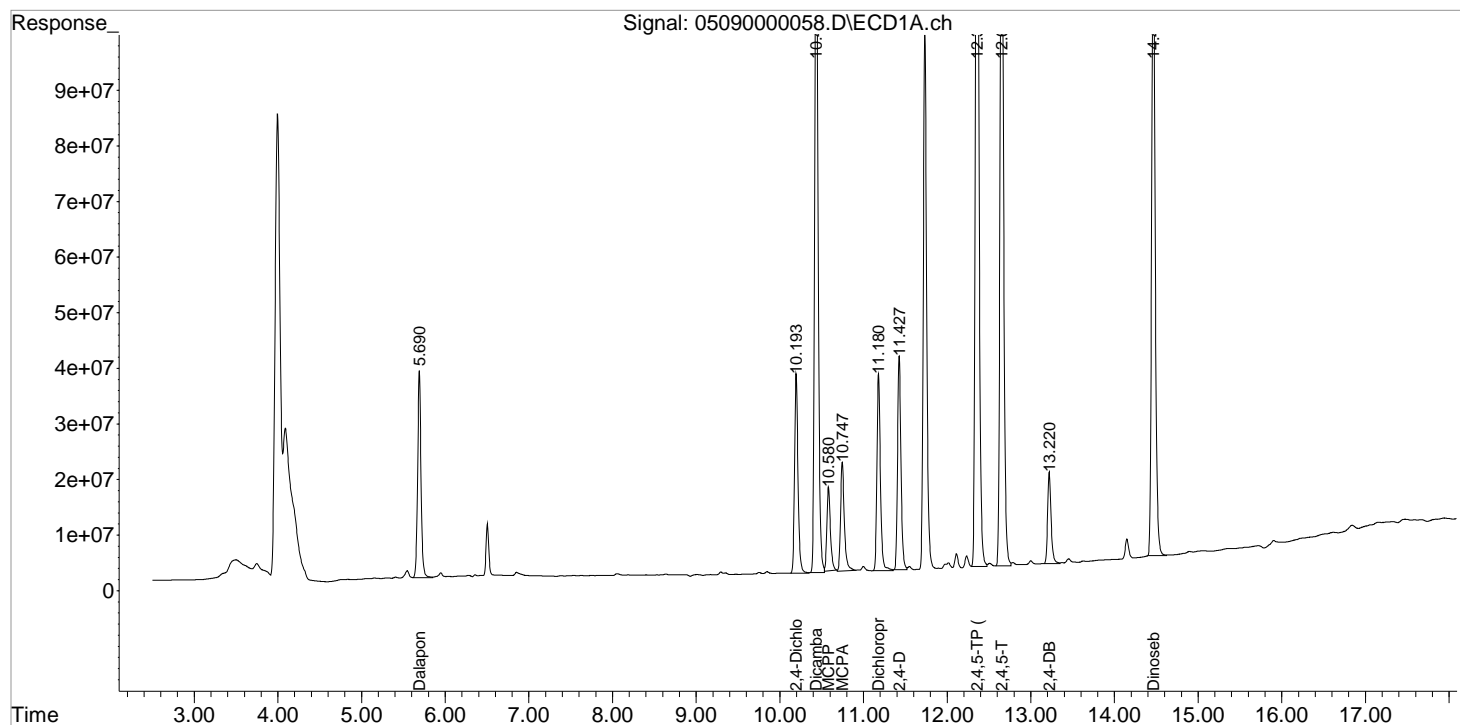
Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL

Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2

Signal #1 Info : 0.32 mm

Signal #2 Info : 0.32 mm



Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT
---	---	-----	Sample Name	-----	-----	-----
No	29	Vial 99	8151A-17 IB	05080000029	F:29:01	
No	30	Vial 99	8151A-17 IB	05080000030	F:30:01	
No	31	Vial 99	8151A-17 IB	05080000031	F:31:01	
No	32	Vial 99	8151A-17 IB	05080000032	F:32:01	
No	33	Vial 99	8151A-17 IB	05080000033	F:33:01	
No	34	Vial 99	8151A-17 IB	05080000034	F:34:01	
No	35	Vial 99	8151A-17 IB	05080000035	F:35:01	
No	36	Vial 99	8151A-17 IB	05080000036	F:36:01	
No	37	Vial 99	8151A-17 IB	05080000037	F:37:01	
No	38	Vial 99	8151A-17 IB	05080000038	F:38:01	
No	39	Vial 99	8151A-17 IB	05080000039	F:39:01	
No	40	Vial 99	8151A-17 IB	05080000040	F:40:01	
No	41	Vial 99	8151A-17 IB	05080000041	F:41:01	
No	42	Vial 99	8151A-17 IB	05080000042	F:42:01	
No	43	Vial 99	8151A-17 IB	05080000043	F:43:01	
No	44	Vial 99	8151A-17 IB	05080000044	F:44:01	
No	45	Vial 99	8151A-17 IB	05080000045	F:45:01	
No	46	Vial 99	8151A-17 IB	05080000046	F:46:01	
No	47	Vial 99	8151A-17 IB	05080000047	F:47:01	
No	48	Vial 99	8151A-17 IB	05080000048	F:48:01	
No	49	Vial 1	8151A-17 IB	05080000049	F:49:01	
No	50	Vial 2	8151A-17	05080000050	F:50:01	
No	51	Vial 3	PENTA02-68B 10PPB 8151A-17	05080000051	F:51:01	
No	52	Vial 4	PENTA02-68C 25PPB 8151A-17	05080000052	F:52:01	
No	53	Vial 5	PENTA02-68D 75PPB 8151A-17	05080000053	F:53:01	
No	54	Vial 6	PENTA02-67K 100PPB 8151A-17	05080000054	F:54:01	
No	55	Vial 7	PENTA02-68E 125PPB 8151A-17	05080000055	F:55:01	
			PENTA02-68F 150PPB			

KC 2300309

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT
			Sample Name			
No	56	Vial 8	8151A-17 PENTA02-68G 175PPB	050800000056	F:56:01	
No	57	Vial 9	8151A-17 PENTA02-68H 200PPB	050800000057	F:57:01	
No	58	Vial 1	8151A-17 IB	050800000058	F:58:01	
No	59	Vial 10	8151A-17 PENTA02-67D ICV	050800000059	F:59:01	

Data File : J:\GC34\DATA\050823A-HB\05080000050.D Vial: 2
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09-May-2023, 11:03:46 Operator: BB
 Sample : PENTA02-68B 10PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 09 17:16:00 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:54:15 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.203	9.593	7755269	1262261	8.246	9.667
Target Compounds							
1) m	Dalapon	5.693	5.173	10200852	1994067	8.578	9.892
3) m	Dicamba	10.443	9.803	22261896	4063070	6.998	8.940 #
4) m	MCP	10.590	9.870	3959600	769233	953.153	1229.751 #
5) m	MCPA	10.753	10.107	6816352	1057957	1180.429	767.043 #
6) m	Dichloroprop	11.187	10.477	7215116	1232320	8.266	10.156
7) m	2,4-D	11.433	10.793	8001284	1319339	8.006	9.578
8) m	2,4,5-TP ...	12.363	11.650	30803534	4878532	7.168	9.116 #
9) m	2,4,5-T	12.660	12.043	24566334	3733396	6.708	8.495 #
10) m	2,4-DB	13.227	12.560	2287860	386398	10.720	6.940 #
11) m	Dinoseb	14.473	12.917	23476812	3701923	8.000	9.713

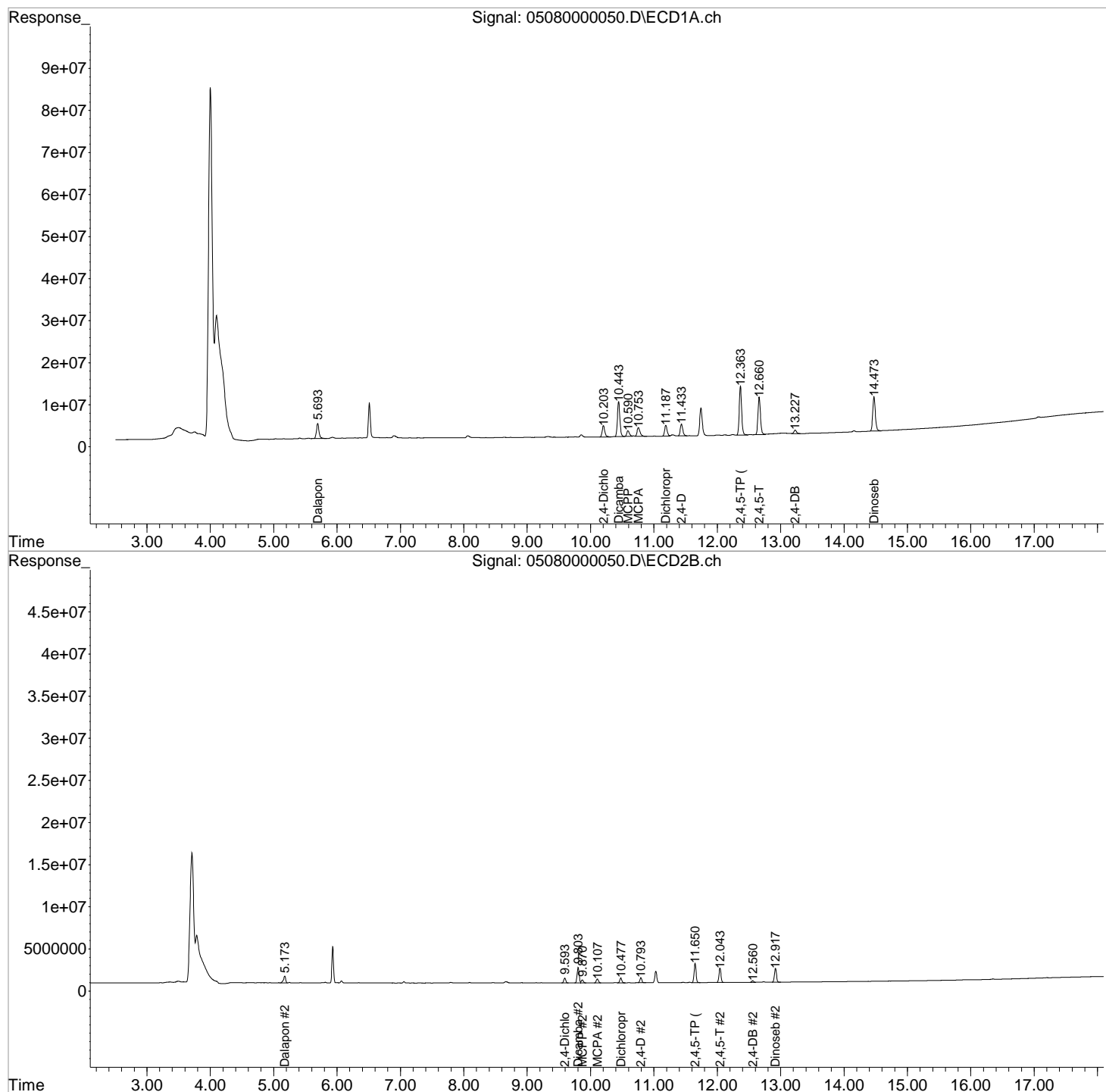
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050823A-HB\05080000050.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-May-2023, 11:03:46
Sample : PENTA02-68B 10PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 09 17:16:00 2023
Quant Results File: 050823.8151.RES

Vial: 2
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:54:15 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\050823A-HB\05080000051.D Vial: 3
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09-May-2023, 11:27:40 Operator: BB
 Sample : PENTA02-68C 25PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 09 17:16:03 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.203	9.593	20509002	3165347	21.806	24.241
Target Compounds							
1) m	Dalapon	5.693	5.173	26730119	4950786	22.478	24.559
3) m	Dicamba	10.443	9.803	66364002	10382939	20.861	22.845
4) m	MCP	10.590	9.870	10509077	1739040	2529.740	2780.153
5) m	MCPA	10.753	10.107	15405113	2357890	2667.796	2659.965
6) m	Dichloroprop	11.187	10.477	19497447	3084361	22.337	25.420
7) m	2,4-D	11.433	10.793	22439324	3467519	22.451	25.174
8) m	2,4,5-TP ...	12.363	11.650	92266832	12569145	21.469	23.487
9) m	2,4,5-T	12.660	12.043	76678872	10080066	20.937	22.938
10) m	2,4-DB	13.227	12.560	7498827	1145757	21.397	20.579
11) m	Dinoseb	14.470	12.917	65680559	9333053	22.381	24.488

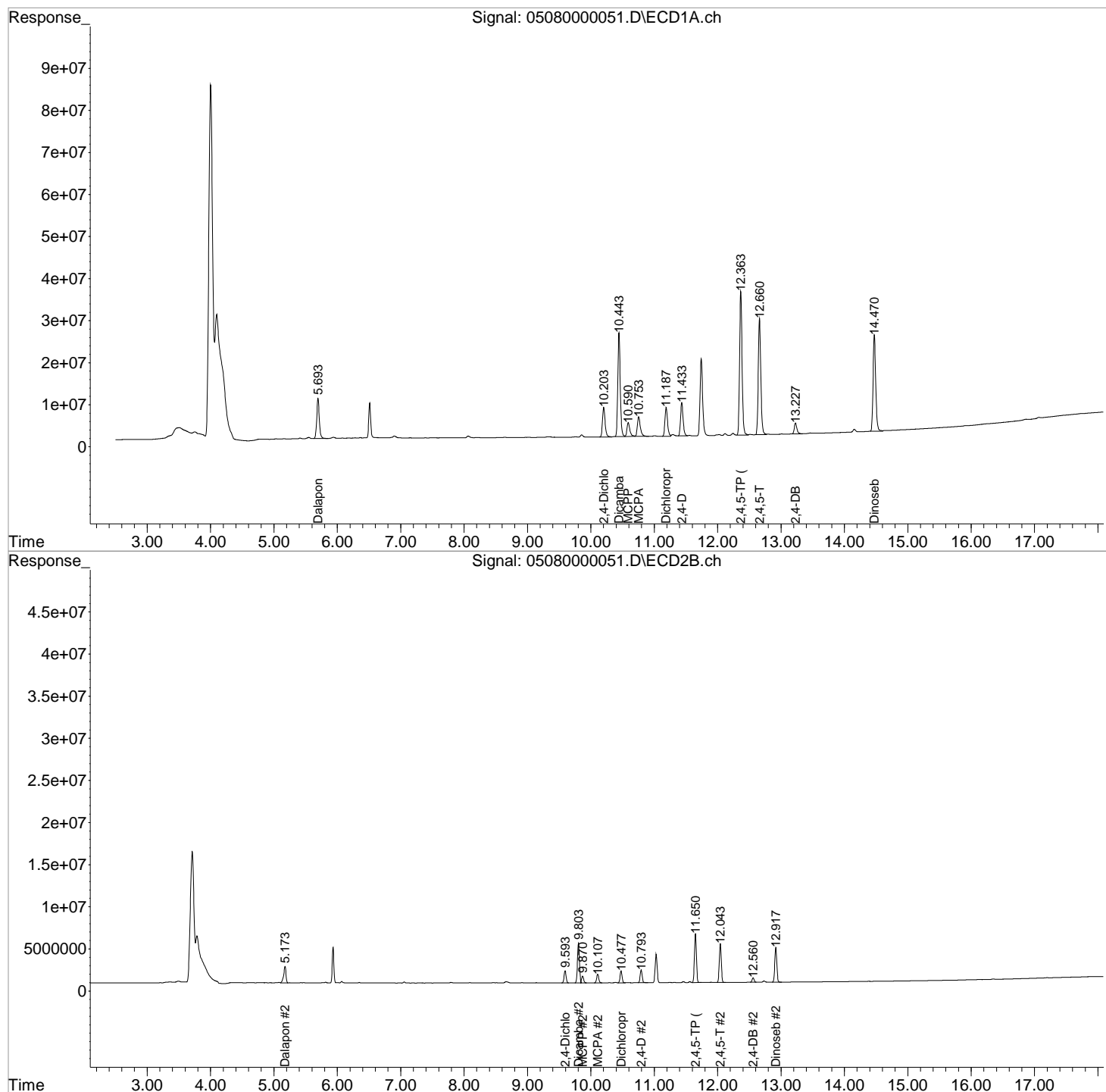
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050823A-HB\05080000051.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-May-2023, 11:27:40
Sample : PENTA02-68C 25PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 09 17:16:03 2023
Quant Results File: 050823.8151.RES

Vial: 3
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\050823A-HB\05080000052.D Vial: 4
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09-May-2023, 11:51:30 Operator: BB
 Sample : PENTA02-68D 75PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 09 17:16:06 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.200	9.590	60636204	8452339	64.470	64.730
Target Compounds							
1) m	Dalapon	5.693	5.173	79018501	13479366	66.449	66.867
3) m	Dicamba	10.440	9.800	217.0E6	30454333	68.205	67.006
4) m	MCP	10.587	9.867	28400332	4276887	6836.514	6837.336
5) m	MCPA	10.750	10.103	37946130	5546230	6571.360	7302.726
6) m	Dichloroprop	11.183	10.473	58571518	8263950	67.100	68.109
7) m	2,4-D	11.430	10.790	68557002	9585163	68.594	69.587
8) m	2,4,5-TP ...	12.360	11.647	296.7E6	36476934	69.036	68.162
9) m	2,4,5-T	12.657	12.040	258.4E6	30636056	70.569	69.713
10) m	2,4-DB	13.223	12.557	30465900	4213382	68.454	75.677
11) m	Dinoseb	14.467	12.917	201.4E6	26050449	68.633	68.351

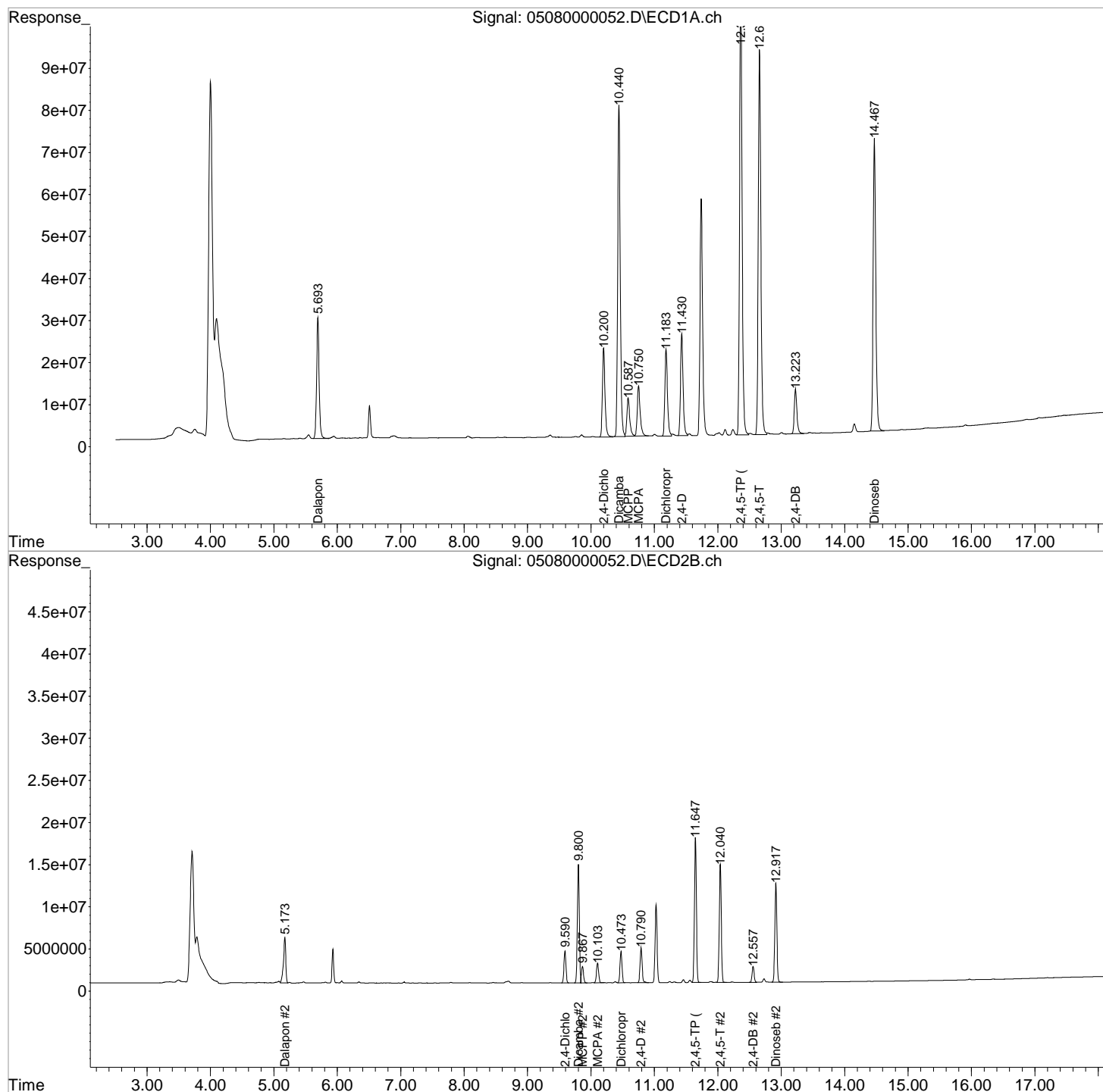
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050823A-HB\05080000052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-May-2023, 11:51:30
Sample : PENTA02-68D 75PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 09 17:16:06 2023
Quant Results File: 050823.8151.RES

Vial: 4
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\050823A-HB\05080000053.D Vial: 5
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09-May-2023, 12:15:18 Operator: BB
 Sample : PENTA02-67K 100PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 09 17:16:09 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.197	9.587	86148695	11685445	91.595	89.489
Target Compounds							
1) m	Dalapon	5.690	5.170	107.4E6	17827444	90.331	88.436
3) m	Dicamba	10.437	9.800	313.5E6	43272181	98.540	95.208
4) m	MCP	10.583	9.863	39313520	5587759	9463.531	8932.989
5) m	MCPA	10.747	10.100	51012291	7212732	8834.106	9729.434
6) m	Dichloroprop	11.180	10.470	85115019	11372219	97.509	93.726
7) m	2,4-D	11.427	10.787	96640582	13006430	96.693	94.425
8) m	2,4,5-TP ...	12.360	11.643	428.5E6	51421826	99.718	96.088
9) m	2,4,5-T	12.653	12.037	367.6E6	42766894	100.388	97.317
10) m	2,4-DB	13.223	12.553	42421769	5722862	92.950	102.789
11) m	Dinoseb	14.467	12.913	288.0E6	36211587	98.139	95.012

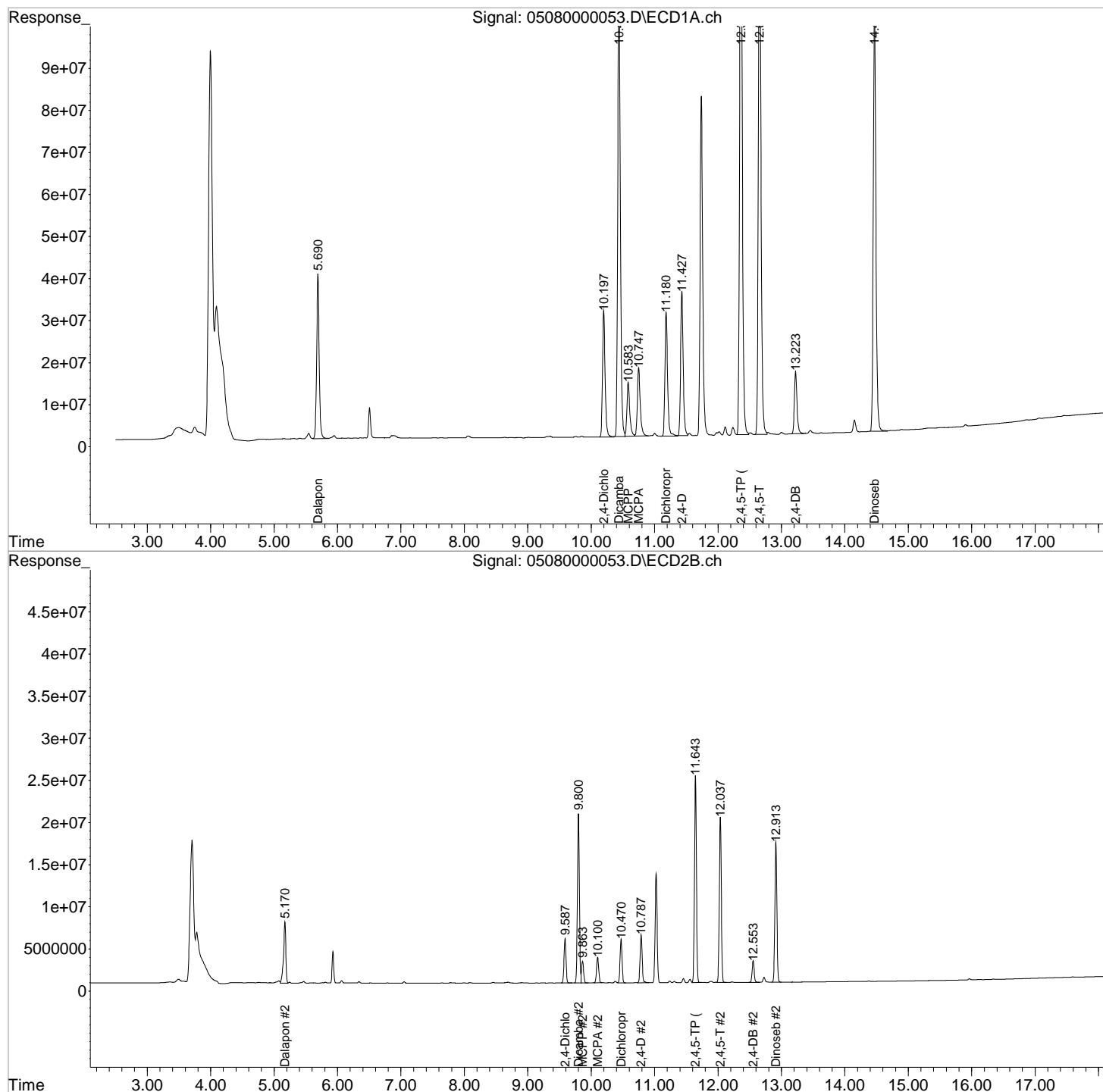
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050823A-HB\05080000053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-May-2023, 12:15:18
Sample : PENTA02-67K 100PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 09 17:16:09 2023
Quant Results File: 050823.8151.RES

Vial: 5
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\050823A-HB\05080000054.D Vial: 6
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09-May-2023, 12:38:59 Operator: BB
 Sample : PENTA02-68E 125PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 09 17:16:12 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.197	9.587	109.7E6	14553730	116.630	111.455
Target Compounds							
1) m	Dalapon	5.690	5.170	139.8E6	22753087	117.598	112.871
3) m	Dicamba	10.437	9.800	402.0E6	54854123	126.370	120.691
4) m	MCP	10.583	9.863	48855981	6783724	11760.587	10844.944
5) m	MCPA	10.747	10.100	63524298	8710521	11000.886	11910.468
6) m	Dichloroprop	11.180	10.470	107.6E6	14133441	123.323	116.483
7) m	2,4-D	11.427	10.787	122.7E6	16097411	122.781	116.865
8) m	2,4,5-TP ...	12.360	11.643	544.9E6	64879555	126.799	121.236
9) m	2,4,5-T	12.653	12.037	465.6E6	53505423	127.137	121.753
10) m	2,4-DB	13.223	12.553	53396677	6952744	115.436	124.879
11) m	Dinoseb	14.467	12.913	361.0E6	44947049	122.998	117.932

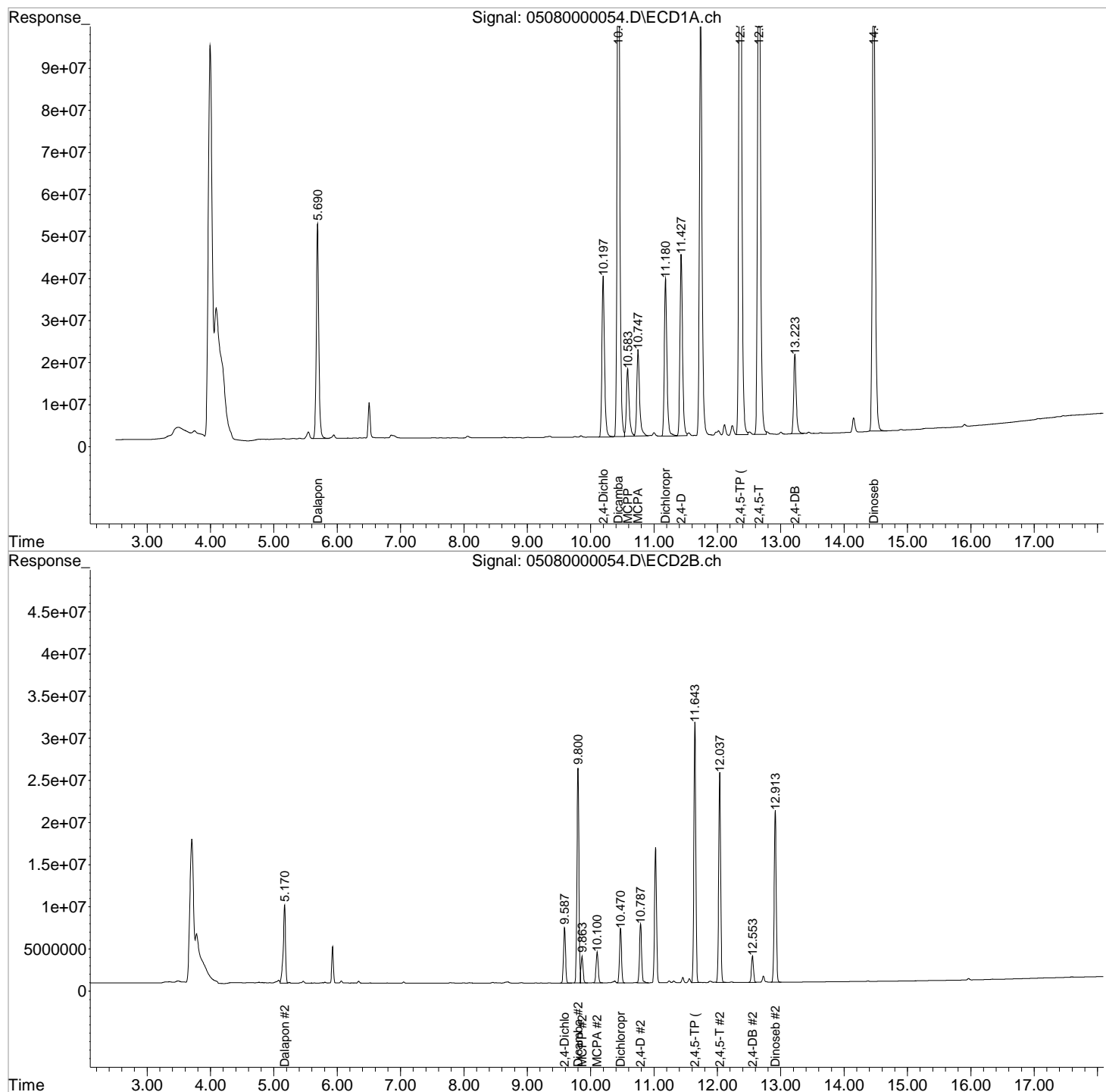
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050823A-HB\05080000054.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-May-2023, 12:38:59
Sample : PENTA02-68E 125PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 09 17:16:12 2023
Quant Results File: 050823.8151.RES

Vial: 6
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\050823A-HB\05080000055.D Vial: 7
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09-May-2023, 13:02:38 Operator: BB
 Sample : PENTA02-68F 150PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 09 17:16:15 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.197	9.587	131.4E6	17238828	139.750	132.018
Target Compounds							
1) m	Dalapon	5.690	5.170	166.5E6	26809230	140.055	132.992
3) m	Dicamba	10.437	9.800	485.1E6	65628952	152.486	144.398
4) m	MCP	10.583	9.863	58152526	7931309	13998.447	12679.555
5) m	MCPA	10.747	10.103	76063462	10076680	13172.369	13899.826
6) m	Dichloroprop	11.180	10.470	129.1E6	16713048	147.904	137.744
7) m	2,4-D	11.427	10.787	147.6E6	19099839	147.705	138.662
8) m	2,4,5-TP ...	12.360	11.643	659.5E6	77887955	153.464	145.543
9) m	2,4,5-T	12.653	12.037	565.6E6	64438950	154.434	146.633
10) m	2,4-DB	13.223	12.553	66020816	8383129	141.301	150.571
11) m	Dinoseb	14.467	12.913	435.5E6	53610682	148.398	140.664

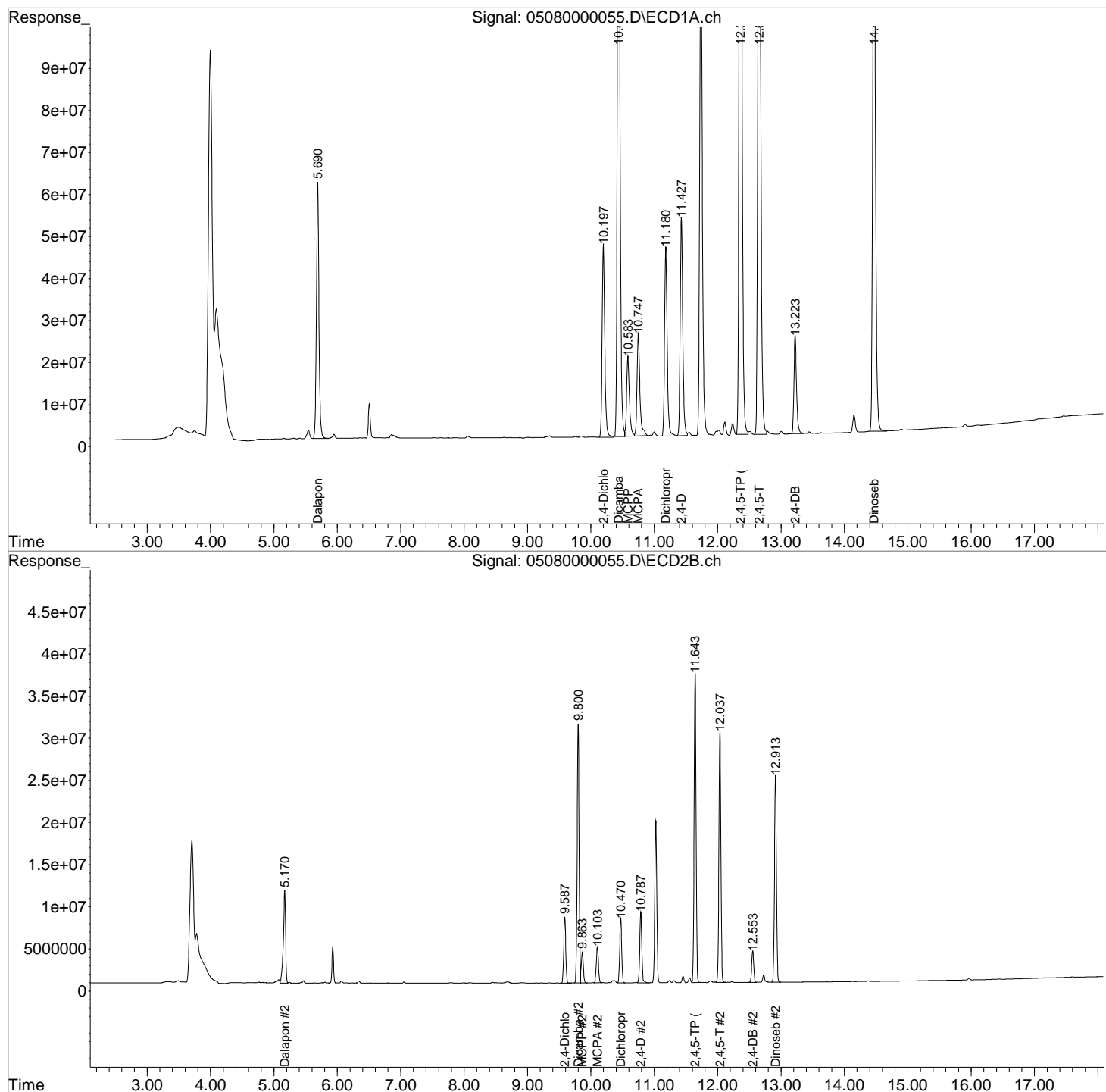
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050823A-HB\05080000055.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-May-2023, 13:02:38
Sample : PENTA02-68F 150PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 09 17:16:15 2023
Quant Results File: 050823.8151.RES

Vial: 7
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\050823A-HB\05080000056.D Vial: 8
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09-May-2023, 13:26:27 Operator: BB
 Sample : PENTA02-68G 175PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 09 17:16:18 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.197	9.590	154.0E6	19998974	163.735	153.156
Target Compounds							
1) m	Dalapon	5.690	5.170	194.4E6	30962460	163.456	153.595
3) m	Dicamba	10.440	9.800	570.9E6	76786780	179.474	168.947
4) m	MCP	10.587	9.867	64335145	9113845	15486.723	14570.041
5) m	MCPA	10.750	10.103	86479578	11546817	14976.191	16040.593
6) m	Dichloroprop	11.183	10.473	151.2E6	19384213	173.228	159.759
7) m	2,4-D	11.430	10.790	172.6E6	22060965	172.741	160.159
8) m	2,4,5-TP ...	12.360	11.647	775.5E6	90820560	180.448	169.710
9) m	2,4,5-T	12.657	12.040	664.1E6	75200125	181.324	171.120
10) m	2,4-DB	13.223	12.557	78357847	9732221	166.579	174.802
11) m	Dinoseb	14.470	12.913	509.8E6	62164846	173.728	163.109

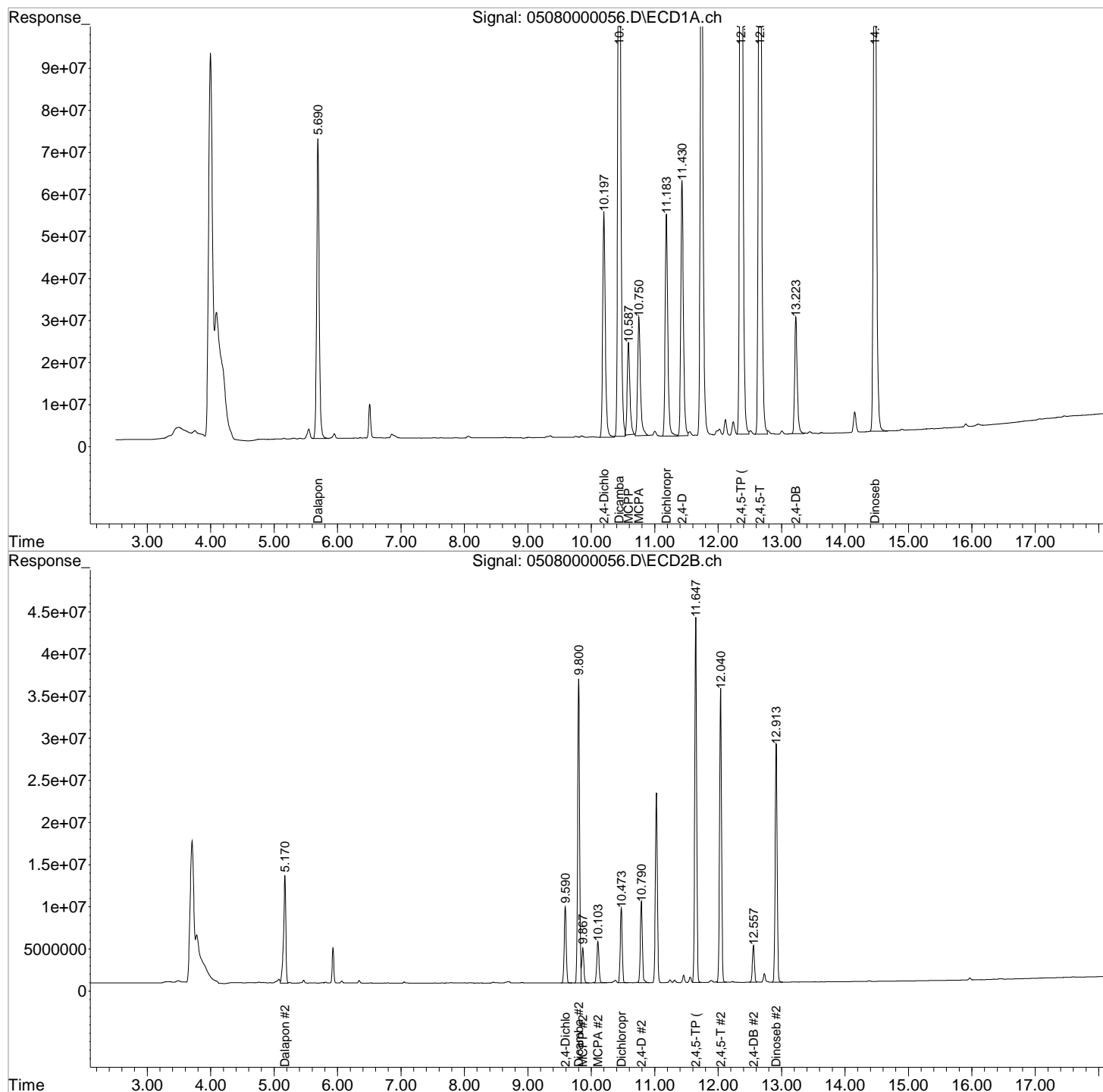
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050823A-HB\05080000056.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-May-2023, 13:26:27
Sample : PENTA02-68G 175PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 09 17:16:18 2023
Quant Results File: 050823.8151.RES

Vial: 8
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\050823A-HB\05080000057.D Vial: 9
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09-May-2023, 13:50:19 Operator: BB
 Sample : PENTA02-68H 200PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 09 17:16:21 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	10.200	9.593	177.2E6	22815249	188.424	174.724
Target Compounds							
1) m	Dalapon	5.693	5.173	221.5E6	35129708	186.252	174.267
3) m	Dicamba	10.443	9.803	661.5E6	88616828	207.924	194.976
4) m	MCP	10.587	9.870	77044719	10222087	18546.166	16341.756
5) m	MCPA	10.753	10.107	98873214	12939768	17122.471	18068.965
6) m	Dichloroprop	11.187	10.477	174.2E6	22067347	199.584	181.872
7) m	2,4-D	11.433	10.793	197.4E6	25078291	197.514	182.065
8) m	2,4,5-TP ...	12.363	11.650	896.7E6	104.3E6	208.657	194.882
9) m	2,4,5-T	12.660	12.040	767.5E6	86537879	209.570	196.920
10) m	2,4-DB	13.227	12.557	93373370	11338519	197.344	203.653
11) m	Dinoseb	14.470	12.917	587.8E6	71174187	200.308	186.747

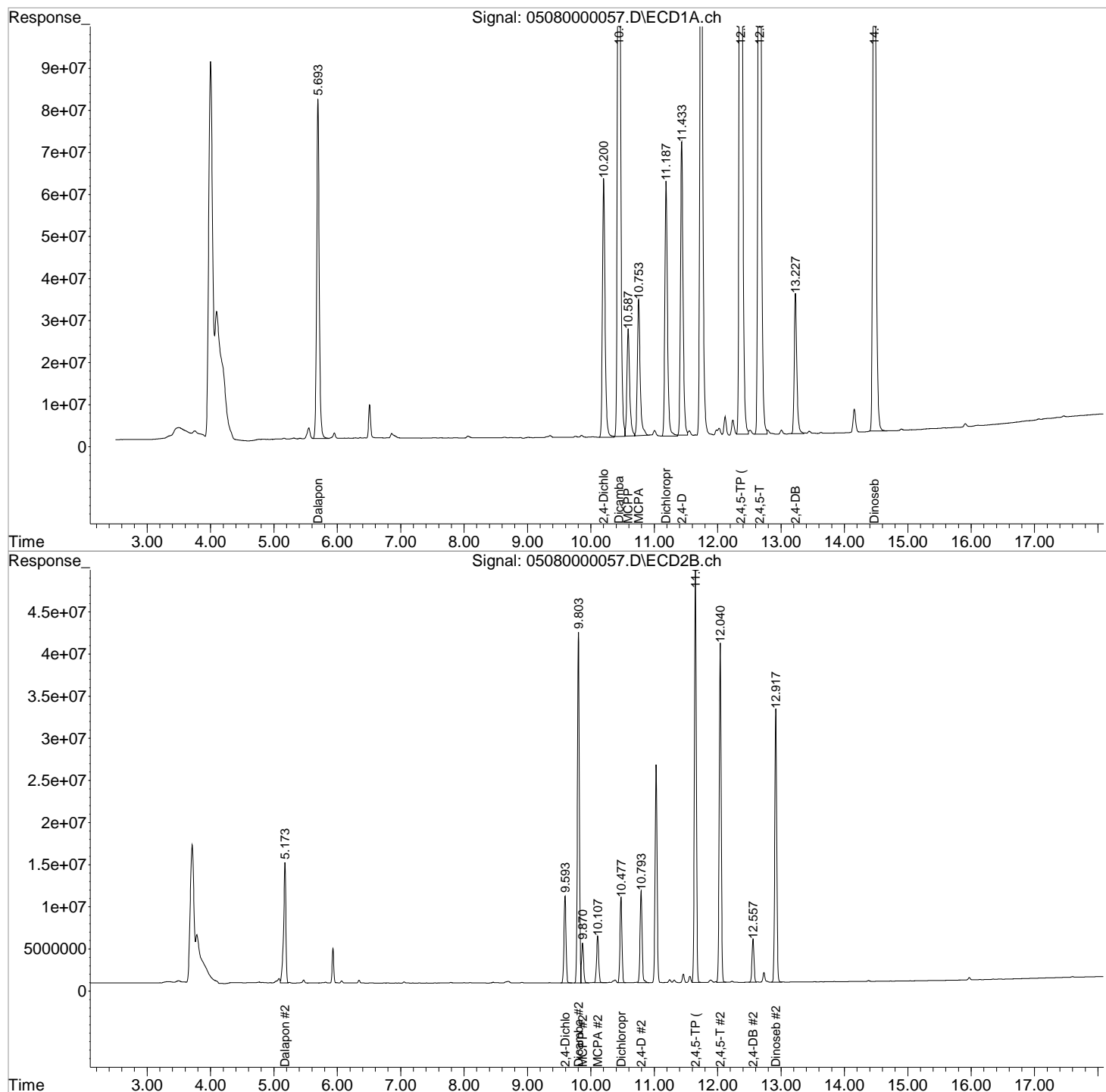
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050823A-HB\05080000057.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-May-2023, 13:50:19
Sample : PENTA02-68H 200PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 09 17:16:21 2023
Quant Results File: 050823.8151.RES

Vial: 9
Operator: BB
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\050823A-HB\05080000058.D Vial: 1
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09-May-2023, 14:14:15 Operator: BB
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 09 16:58:44 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

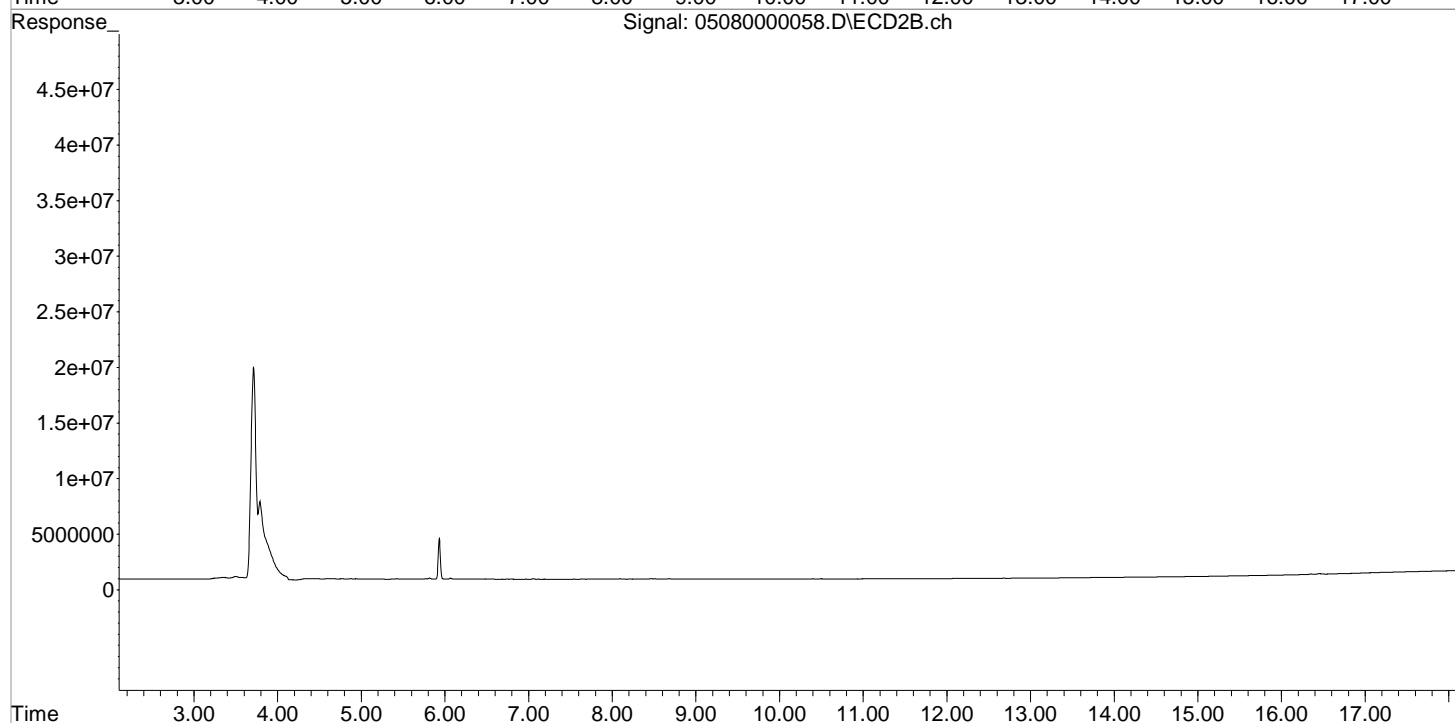
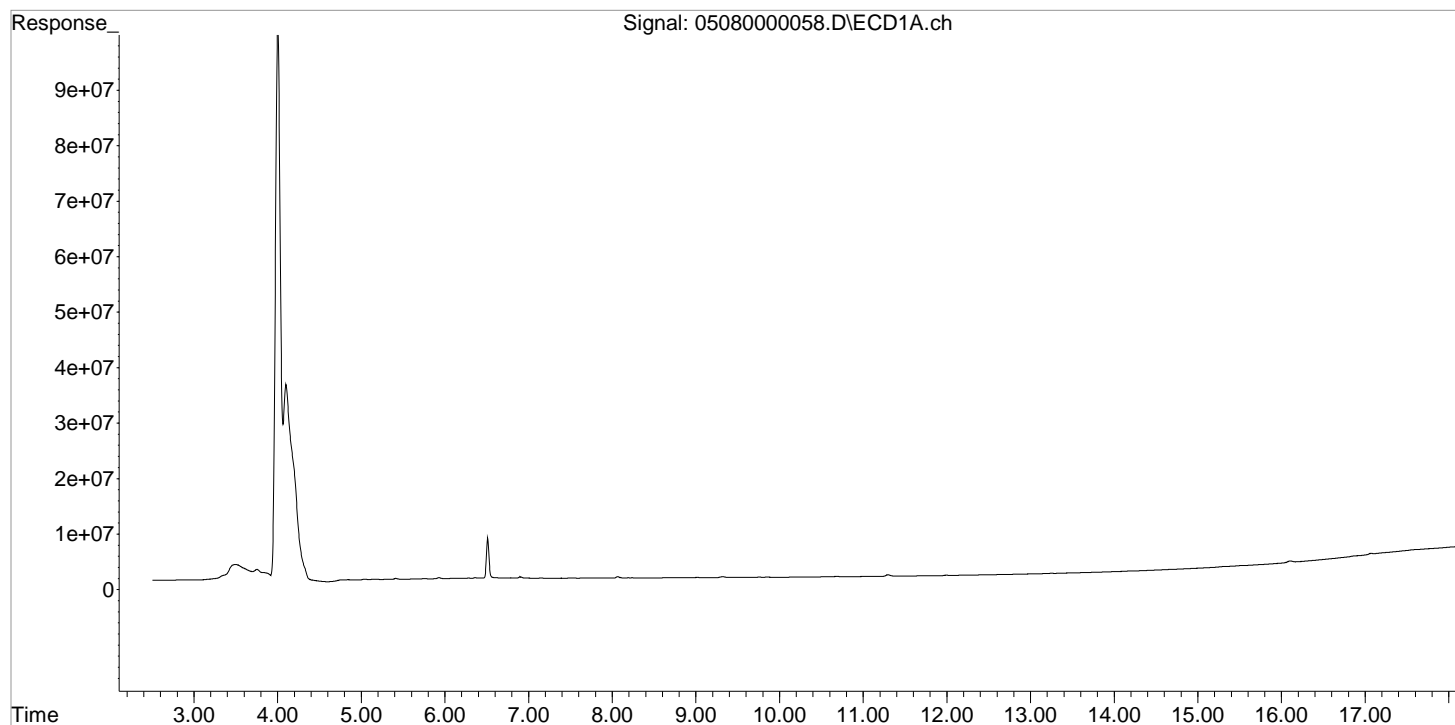
System Monitoring Compounds							
2) s	2,4-Dichl...	0.000	0.000	0	0	N.D.	N.D.
Target Compounds							
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D.	N.D.
4) m	MCP	0.000	0.000	0	0	N.D.	N.D.
5) m	MCPA	0.000	0.000	0	0	N.D.	N.D.
6) m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7) m	2,4-D	0.000	0.000	0	0	N.D.	N.D.
8) m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m	2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m	2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11) m	Dinoseb	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050823A-HB\05080000058.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-May-2023, 14:14:15 Operator: BB
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 09 16:58:44 2023
Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\050823A-HB\05080000059.D Vial: 10
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09-May-2023, 14:38:23 Operator: BB
 Sample : PENTA02-67D ICV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 09 16:58:03 2023
 Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue May 09 16:16:22 2023
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

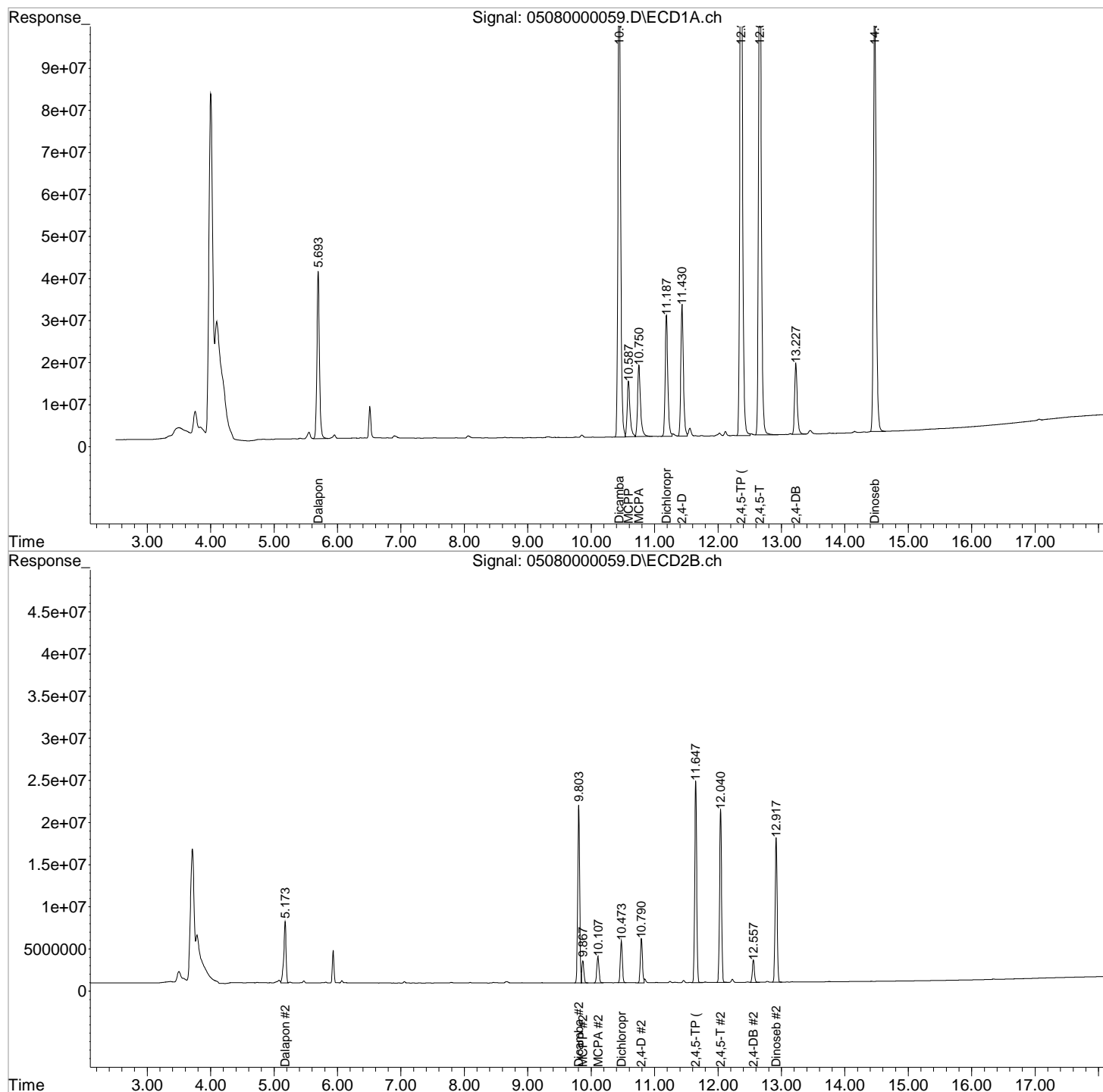
System Monitoring Compounds							
2) s	2,4-Dichl...	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds							
1) m	Dalapon	5.693	5.173	109.5E6	17965558	92.056	89.121
3) m	Dicamba	10.440	9.803	328.5E6	45081970	103.269	99.190
4) m	MCPD	10.587	9.867	41158279	5716107	9907.600	9138.175
5) m	MCPA	10.750	10.107	54142009	7489839	9376.099	10132.949
6) m	Dichloroprop	11.187	10.473	82019586	11204769	93.963	92.346
7) m	2,4-D	11.430	10.790	88815427	11976825	88.863	86.950
8) m	2,4,5-TP ...	12.363	11.647	425.8E6	50989903	99.067	95.281
9) m	2,4,5-T	12.657	12.040	385.1E6	44551718	105.145	101.379
10) m	2,4-DB	13.227	12.557	48539665	5950906	105.485	106.885
11) m	Dinoseb	14.470	12.917	300.8E6	37575962	102.498	98.592

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050823A-HB\05080000059.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-May-2023, 14:38:23 Operator: BB
Sample : PENTA02-67D ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 09 16:58:03 2023
Quant Results File: 050823.8151.RES

Quant Method : J:\GC34\METHODS\050823.8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue May 09 16:16:22 2023
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Sel	Run	Location	Method Sample Name	Datafile	SeqTable	Calib:RF:RT
---	---	-----	-----	-----	-----	-----
No	29	Vial 23	8151A-17 K2303693-015	05090000029	F:29:01	Run: 804089
No	30	Vial 24	8151A-17 K2303693-016	05090000030	F:30:01	C41: K2300309
No	31	Vial 25	8151A-17 K2303693-018	05090000031	F:31:01	
No	32	Vial 26	8151A-17 K2303693-019	05090000032	F:32:01	
No	33	Vial 98	8151A-17 PENTA02-67K 100PPB	05090000033	F:33:01	
No	34	Vial 99	8151A-17 IB	05090000034	F:34:01	
No	35	Vial 27	8151A-17 K2303693-020	05090000035	F:35:01	
No	36	Vial 28	8151A-17 K2303693-021	05090000036	F:36:01	
No	37	Vial 29	8151A-17 KQ2307431-01 MB	05090000037	F:37:01	
No	38	Vial 30	8151A-17 KQ2307431-02 LCS	05090000038	F:38:01	
No	39	Vial 31	8151A-17 KQ2307431-03 LCS	05090000039	F:39:01	
No	40	Vial 32	8151A-17 KQ2307431-04 LCS	05090000040	F:40:01	
No	41	Vial 33	8151A-17 KQ2307431-05 LCS	05090000041	F:41:01	
No	42	Vial 34	8151A-17 KQ2306106-01 MB	05090000042	F:42:01	
No	43	Vial 35	8151A-17 KQ2306106-02 LCS	05090000043	F:43:01	
No	44	Vial 36	8151A-17 KQ2306106-03 DLCS	05090000044	F:44:01	
No	45	Vial 37	8151A-17 K2303703-001	05090000045	F:45:01	
No	46	Vial 38	8151A-17 KQ2306579-01 MB	05090000046	F:46:01	
No	47	Vial 39	8151A-17 KQ2306579-02 LCS	05090000047	F:47:01	
No	48	Vial 40	8151A-17 KQ2306579-03 DLCS	05090000048	F:48:01	
No	49	Vial 41	8151A-17 K2304148-001	05090000049	F:49:01	
No	50	Vial 42	8151A-17 K2304151-001	05090000050	F:50:01	
No	51	Vial 43	8151A-17 K2304152-001	05090000051	F:51:01	
No	52	Vial 44	8151A-17 KQ2305790-01 MB	05090000052	F:52:01	
No	53	Vial 45	8151A-17 KQ2305790-02 LCS	05090000053	F:53:01	
No	54	Vial 46	8151A-17 KQ2305790-03 DLCS	05090000054	F:54:01	
No	55	Vial 47	8151A-17 K2303523-001	05090000055	F:55:01	

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT
---	---	-----	Sample Name	-----	-----	-----
No	56	Vial 48	8151A-17 K2303524-001	05090000056	F:56:01	
No	57	Vial 49	8151A-17 K2303566-001	05090000057	F:57:01	
No	58	Vial 98	8151A-17 PENTA02-67K 100PPB	05090000058	F:58:01	
No	59	Vial 99	8151A-17 IB	05090000059	F:59:01	
No	60	Vial 50	8151A-17 KQ2305516-01 MB	05090000060	F:60:01	
No	61	Vial 51	8151A-17 K2300337-020	05090000061	F:61:01	
No	62	Vial 52	8151A-17 K2300337-062	05090000062	F:62:01	
No	63	Vial 53	8151A-17 K2301394-021	05090000063	F:63:01	
No	64	Vial 54	8151A-17 K2301394-058	05090000064	F:64:01	
No	65	Vial 98	8151A-17 PENTA02-67K 100PPB	05090000065	F:65:01	
No	66	Vial 99	8151A-17 IB	05090000066	F:66:01	

run: 804089

CSI: K12300309