ALS Environmental
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Kelso, WA 98626
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April 02, 2021

Analytical Report for Service Request No: K2102811

Delaney Peterson
Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101

RE: GascoSiltronic: US Moorings

Dear Delaney,

Enclosed are the results of the sample(s) submitted to our laboratory March 19, 2021
For your reference, these analyses have been assigned our service request number **K2102811.**

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

Mark Harris
Project Manager

ALS Environmental
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Table of Contents

Acronyms

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

Inorganic Data Qualifiers

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

Metals Data Qualifiers

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

Organic Data Qualifiers

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

Additional Petroleum Hydrocarbon Specific Qualifiers

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

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

Agency	Web Site	Number
Alaska 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.pjlabs.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/bsdw/labservice.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/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102811
Date Received: 03/19/2021

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:

Six soil samples were received for analysis at ALS Environmental on 03/19/2021. 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:

The analysis of 8151A requires the use of dual column confirmation. For the Initial Calibration Verification (ICV) at least one of the analytical systems in a dual column or dual detector system must meet the criteria. This criteria was met on one column for 2,4-D. The data quality was not affected. No further corrective action was necessary.

Approved by _____ Date 04/02/2021

Chain of Custody

ALS Environmental—Kelso Laboratory
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V2102811

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20210315-093333

POC: * Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: SN
Lab: ALS Environmental, Kelso, W

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-058RAB-00-10-210317	N	SO	03/17/2021	13:35	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
002	USMPDI-058RAB-10-20-210317	N	SO	03/17/2021	14:25	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
003	USMPDI-058RAB-20-26.2-210317	N	SO	03/17/2021	15:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
004	USMPDI-059RAB-00-10-210318	N	SO	03/18/2021	8:40	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
005	USMPDI-059RAB-10-20-210318	N	SO	03/18/2021	9:35	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
006	USMPDI-059RAB-20-25.5-210318	N	SO	03/18/2021	10:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
007	USMPDI-060RAB-00-10-210317	N	SO	03/17/2021	9:50	1	☐				
								Herbicides	SW8151A	30	4°C

Comment:

COPY

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name Sasha Norwood	Print Name	Print Name	Print Name	Print Name	Print Name
Company AnchorQEA	Company	Company	Company	Company	Company
Date/Time 3/18/21 0945	Date/Time 3/19/21 1130	Date/Time	Date/Time	Date/Time	Date/Time

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Date Printed: 3/18/2021

L21C2811

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20210315-093333

POC: Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: SN
Lab: ALS Environmental, Kelso, W

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
007	USMPDI-060RAB-00-10-210317	N	SO	03/17/2021	9:50	1	☐				
								Total Solids (ALS)	SM2540G	30	4°C
008	USMPDI-060RAB-10-20-210317	N	SO	03/17/2021	11:00	2	☒				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
009	USMPDI-060RAB-20-28.1-210317	N	SO	03/17/2021	11:40	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
010	USMPDI-1060RAB-00-10-210317	FD	SO	03/17/2021		1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
011	USMPDI-064RAB-00-10-210310	N	SO	03/10/2021	13:35	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
012	USMPDI-064RAB-10-20-210311	N	SO	03/11/2021	8:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
013	USMPDI-064RAB-20-23.4-210311	N	SO	03/11/2021	10:00	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:

COPY

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name Sasha Norwood	Print Name Monroe	Print Name	Print Name	Print Name	Print Name
Company Anchor QEA	Company ALS	Company	Company	Company	Company
Date/Time 3/18/21 0/435	Date/Time 3/19/21 1130	Date/Time	Date/Time	Date/Time	Date/Time

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Date Printed: 3/18/2021

KZ102811

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20210315-093333

POC: Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: SN
Lab: ALS Environmental, Kelso, W

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
014	USMPDI-1064RAB-10-20-210311	FD	SO	03/11/2021		1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
015	USMPDI-066RAB-00-10-210315	N	SO	03/15/2021	10:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
016	USMPDI-066RAB-10-20-210315	N	SO	03/15/2021	11:40	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
017	USMPDI-066RAB-20-22.5-210315	N	SO	03/15/2021	13:05	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
018	USMPDI-067RAB-00-10-210316	N	SO	03/16/2021	10:05	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
019	USMPDI-067RAB-10-20-210316	N	SO	03/16/2021	11:15	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
020	USMPDI-067RAB-20-21.9-210316	N	SO	03/16/2021	11:45	1	☐				
								Herbicides	SW8151A	30	4°C

Comment:

COPY

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: Sasha Norwood	Print Name: K Monroe	Print Name	Print Name	Print Name	Print Name
Company: Anchor QEA	Company: ALS	Company	Company	Company	Company
Date/Time: 3/18/21 @1435	Date/Time: 3/19/21 1130	Date/Time	Date/Time	Date/Time	Date/Time

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Date Printed: 3/18/2021

KL2102811

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20210315-093333

POC: # Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: SN
Lab: ALS Environmental, Kelso, W

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
020	USMPDI-067RAB-20-21.9-210316	N	SO	03/16/2021	11:45	1	☐				
								Total Solids (ALS)	SM2540G	30	4°C
021	USMPDI-068RAB-00-10-210311	N	SO	03/11/2021	13:55	4	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
022	USMPDI-068RAB-10-20-210311	N	SO	03/11/2021	14:40	2	☒				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
023	USMPDI-068RAB-20-32.1-210312	N	SO	03/12/2021	8:20	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
024	USMPDI-069RAB-00-10-210312	N	SO	03/12/2021	10:25	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
025	USMPDI-069RAB-10-20-210312	N	SO	03/12/2021	11:25	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
026	USMPDI-069RAB-20-36.3-210312	N	SO	03/12/2021	13:20	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:

COPY

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name Sasha Norwood	Print Name	Print Name	Print Name	Print Name	Print Name
Company Anchor QEA	Company	Company	Company	Company	Company
Date/Time 3/18/21 @ 1435	Date/Time 3/19/21 1130	Date/Time	Date/Time	Date/Time	Date/Time

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Date Printed: 3/18/2021

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PM MH

Cooler Receipt and Preservation Form

Client Archer QEA Service Request K21 62811

Received: 3/19/21 Opened: 3/19/21 By: KM Unloaded: 3/19/21 By: KM

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? Front
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y N
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

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

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
3.0		IR01	AGS-20210315-093333			773204385849	

6. Packing material: *Inserts* *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

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: Did not receive USMP01-1000RAB-00-10-210317 (FB) KM
~~of~~ KM thats on the COC. (FD)

Total Solids

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

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Collected:**	03/11/21 - 03/12/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
Analysis Method:	SM 2540 G	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
USMPDI-068RAB-00-10-210311	K2102811-001	**84.8**	-	-	1	03/23/21 14:15	
USMPDI-068RAB-10-20-210311	K2102811-002	**82.8**	-	-	1	03/23/21 14:15	
USMPDI-068RAB-20-32.1-210312	K2102811-003	**63.5**	-	-	1	03/23/21 14:15	
USMPDI-069RAB-00-10-210312	K2102811-004	**83.7**	-	-	1	03/23/21 14:15	
USMPDI-069RAB-10-20-210312	K2102811-005	**76.0**	-	-	1	03/23/21 14:15	
USMPDI-069RAB-20-36.3-210312	K2102811-006	**68.8**	-	-	1	03/23/21 14:15	
Method Blank	K2102811-MB	ND	-	-	1	03/23/21 14:15	U

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project	GascoSiltronic: US Moorings	**Date Collected:**	03/11/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/23/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	USMPDI-068RAB-10-20-210311	**Units:**	Percent
Lab Code:	K2102811-002	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K2102811-002DUP Result	Average	RPD	RPD Limit
Solids, Total	SM 2540 G	-	-	82.8	82.5	82.7	<1	20

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

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

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

Chlorinated Herbicides by GC

ALS Environmental—Kelso Laboratory
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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Collected:**	03/11/21 13:55
Sample Matrix:	Soil	**Date Received:**	03/19/21 11:30
Sample Name:	USMPDI-068RAB-00-10-210311	**Units:**	ug/Kg
Lab Code:	K2102811-001	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	55	2.7	1	03/31/21 15:39	3/24/21	
2,4-D	ND U	55	8.5	1	03/31/21 15:39	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	63	26 - 127	03/31/21 15:39	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Collected:**	03/11/21 14:40
Sample Matrix:	Soil	**Date Received:**	03/19/21 11:30
Sample Name:	USMPDI-068RAB-10-20-210311	**Units:**	ug/Kg
Lab Code:	K2102811-002	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	60	2.9	1	03/31/21 16:03	3/24/21	
2,4-D	ND U	60	9.3	1	03/31/21 16:03	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	56	26 - 127	03/31/21 16:03	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Collected:**	03/12/21 08:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 11:30
Sample Name:	USMPDI-068RAB-20-32.1-210312	**Units:**	ug/Kg
Lab Code:	K2102811-003	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	77	3.7	1	03/31/21 16:27	3/24/21	
2,4-D	ND U	77	12	1	03/31/21 16:27	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	70	26 - 127	03/31/21 16:27	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Collected:**	03/12/21 10:25
Sample Matrix:	Soil	**Date Received:**	03/19/21 11:30
Sample Name:	USMPDI-069RAB-00-10-210312	**Units:**	ug/Kg
Lab Code:	K2102811-004	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	58	2.9	1	03/31/21 16:52	3/24/21	
2,4-D	ND U	58	9.0	1	03/31/21 16:52	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	64	26 - 127	03/31/21 16:52	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Collected:**	03/12/21 11:25
Sample Matrix:	Soil	**Date Received:**	03/19/21 11:30
Sample Name:	USMPDI-069RAB-10-20-210312	**Units:**	ug/Kg
Lab Code:	K2102811-005	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	64	3.1	1	03/31/21 17:16	3/24/21	
2,4-D	ND U	64	9.9	1	03/31/21 17:16	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	63	26 - 127	03/31/21 17:16	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Collected:**	03/12/21 13:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 11:30
Sample Name:	USMPDI-069RAB-20-36.3-210312	**Units:**	ug/Kg
Lab Code:	K2102811-006	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	72	3.5	1	03/31/21 17:40	3/24/21	
2,4-D	ND U	72	12	1	03/31/21 17:40	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	55	26 - 127	03/31/21 17:40	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KQ2104449-04	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	47	2.4	1	03/31/21 11:11	3/24/21	
2,4-D	ND U	47	7.7	1	03/31/21 11:11	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	60	26 - 127	03/31/21 11:11	

Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Soil

Service Request: K2102811
Date Collected: 03/11/21 14:40
Date Received: 3/19/21

Sample Name: USMPDI-068RAB-10-20-210311
Lab Code: KQ2104449-01

Units: ug/Kg
Basis: Dry
Percent Solids: 82.8

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP (Silvex)	2.9	132	140	6		1	03/31/21 12:00
2,4-D	9.3	127	129	2		1	03/31/21 12:00

Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Soil

Service Request: K2102811
Date Collected: 03/11/21 14:40
Date Received: 3/19/21

Sample Name: USMPDI-068RAB-10-20-210311
Lab Code: KQ2104449-02

Units: ug/Kg
Basis: Dry
Percent Solids: 82.8

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP (Silvex)	2.9	128	137	7		1	03/31/21 12:24
2,4-D	9.2	124	126	2		1	03/31/21 12:24

Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Soil

Service Request: K2102811
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2104449-03

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP (Silvex)	2.4	111	115	4		1	03/31/21 11:36
2,4-D	7.7	104	113	8		1	03/31/21 11:36

Client: Anchor QEA, LLC **Service Request:** K2102811
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 26-127
USMPDI-068RAB-00-10-210311	K2102811-001	63
USMPDI-068RAB-10-20-210311	K2102811-002	56
USMPDI-068RAB-20-32.1-210312	K2102811-003	70
USMPDI-069RAB-00-10-210312	K2102811-004	64
USMPDI-069RAB-10-20-210312	K2102811-005	63
USMPDI-069RAB-20-36.3-210312	K2102811-006	55
Method Blank	KQ2104449-04	60
Lab Control Sample	KQ2104449-03	64
USMPDI-068RAB-10-20-210311	KQ2104449-01	65
USMPDI-068RAB-10-20-210311	KQ2104449-02	63

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Collected:**	03/11/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/31/21
		Date Extracted:	03/24/21

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name:	USMPDI-068RAB-10-20-210311	**Units:**	ug/Kg
Lab Code:	K2102811-002	**Basis:**	Dry
Analysis Method:	8151A		
Prep Method:	Method		

		Matrix Spike KQ2104449-01			**Duplicate Matrix Spike** KQ2104449-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-TP (Silvex)	ND U	132	200	66	128	198	65	34-129	3	40
2,4-D	ND U	127	200	64	124	198	63	35-129	3	40

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

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

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

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	03/31/21
Sample Matrix:	Soil	**Date Extracted:**	03/24/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Units:**	ug/Kg
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	718306

Lab Control Sample
KQ2104449-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP (Silvex)	111	167	66	46-125
2,4-D	104	167	62	46-120

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	03/31/21 11:11
Sample Matrix:	Soil	**Date Extracted:**	03/24/21

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	K-GC-34
Lab Code:	KQ2104449-04	**File ID:**	J:\GC34\DATA\033121\03310000008.D\
Analysis Method:	8151A	**Analysis Lot:**	718306
Prep Method:	Method	**Extraction Lot:**	376223

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2104449-03	J:\GC34\DATA\033121\03310000009.D\	03/31/21 11:36
USMPDI-068RAB-10-20-210311MS	KQ2104449-01	J:\GC34\DATA\033121\03310000010.D\	03/31/21 12:00
USMPDI-068RAB-10-20-210311DMS	KQ2104449-02	J:\GC34\DATA\033121\03310000011.D\	03/31/21 12:24
USMPDI-068RAB-00-10-210311	K2102811-001	J:\GC34\DATA\033121\03310000019.D\	03/31/21 15:39
USMPDI-068RAB-10-20-210311	K2102811-002	J:\GC34\DATA\033121\03310000020.D\	03/31/21 16:03
USMPDI-068RAB-20-32.1-210312	K2102811-003	J:\GC34\DATA\033121\03310000021.D\	03/31/21 16:27
USMPDI-069RAB-00-10-210312	K2102811-004	J:\GC34\DATA\033121\03310000022.D\	03/31/21 16:52
USMPDI-069RAB-10-20-210312	K2102811-005	J:\GC34\DATA\033121\03310000023.D\	03/31/21 17:16
USMPDI-069RAB-20-36.3-210312	K2102811-006	J:\GC34\DATA\033121\03310000024.D\	03/31/21 17:40

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	03/31/21 11:36
Sample Matrix:	Soil	**Date Extracted:**	03/24/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-34
Lab Code:	KQ2104449-03	**File ID:**	J:\GC34\DATA\033121\03310000009.D\
Analysis Method:	8151A	**Analysis Lot:**	718306
Prep Method:	Method	**Extraction Lot:**	376223

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2104449-04	J:\GC34\DATA\033121\03310000008.D\	03/31/21 11:11
USMPDI-068RAB-10-20-210311MS	KQ2104449-01	J:\GC34\DATA\033121\03310000010.D\	03/31/21 12:00
USMPDI-068RAB-10-20-210311DMS	KQ2104449-02	J:\GC34\DATA\033121\03310000011.D\	03/31/21 12:24
USMPDI-068RAB-00-10-210311	K2102811-001	J:\GC34\DATA\033121\03310000019.D\	03/31/21 15:39
USMPDI-068RAB-10-20-210311	K2102811-002	J:\GC34\DATA\033121\03310000020.D\	03/31/21 16:03
USMPDI-068RAB-20-32.1-210312	K2102811-003	J:\GC34\DATA\033121\03310000021.D\	03/31/21 16:27
USMPDI-069RAB-00-10-210312	K2102811-004	J:\GC34\DATA\033121\03310000022.D\	03/31/21 16:52
USMPDI-069RAB-10-20-210312	K2102811-005	J:\GC34\DATA\033121\03310000023.D\	03/31/21 17:16
USMPDI-069RAB-20-36.3-210312	K2102811-006	J:\GC34\DATA\033121\03310000024.D\	03/31/21 17:40

Client: Anchor QEA, LLC **Service Request:** K2102811
Project: GascoSiltronic: US Moorings **Calibration Date:** 3/17/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100138 **Signal ID:** Rtx-CLPesticides
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100138-01	PENTA02-25D-10PPB	J:\GC34\DATA\031721\03170000005.D	03/17/2021 11:54
02	KC2100138-02	PENTA02-25E-25PPB	J:\GC34\DATA\031721\03170000006.D	03/17/2021 12:18
03	KC2100138-03	PENTA02-24K-75PPB	J:\GC34\DATA\031721\03170000007.D	03/17/2021 12:42
04	KC2100138-04	PENTA02-24L-100PPB	J:\GC34\DATA\031721\03170000008.D	03/17/2021 13:06
05	KC2100138-05	PENTA02-24M-125PPB	J:\GC34\DATA\031721\03170000009.D	03/17/2021 13:30
06	KC2100138-06	PENTA02-24N-150PPB	J:\GC34\DATA\031721\03170000010.D	03/17/2021 13:54
07	KC2100138-07	PENTA02-25A-175PPB	J:\GC34\DATA\031721\03170000011.D	03/17/2021 14:18
08	KC2100138-08	PENTA02-25B-200PPB	J:\GC34\DATA\031721\03170000012.D	03/17/2021 14:42

Analyte

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	3.591E6	02	23.760	4.001E6	03	71.300	3.986E6	04	95.100	4.403E6
05	118.820	4.542E6	06	142.580	4.515E6	07	166.340	4.582E6	08	190.100	4.703E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	8.438E5	02	23.510	9.23E5	03	70.500	8.966E5	04	94.000	9.974E5
05	117.540	1.026E6	06	141.050	1.022E6	07	164.560	1.041E6	08	188.060	1.073E6

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	1.047E6	02	22.550	1.062E6	03	67.600	9.596E5	04	90.200	1.027E6
05	112.730	1.048E6	06	135.280	1.027E6	07	157.830	1.024E6	08	180.370	1.048E6

Client: Anchor QEA, LLC **Service Request:** K2102811
Project: GascoSiltronic: US Moorings **Calibration Date:** 3/17/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100138 **Signal ID:** Rtx-CLPesticides
Instrument ID: K-GC-34

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP (Silvex)	TRG	Average RF	% RSD	9.0	≤20	4.29E6	
2,4-D	TRG	Average RF	% RSD	8.2	≤20	9.78E5	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	3.1	≤20	1.03E6	

Client: Anchor QEA, LLC **Service Request:** K2102811
Project: GascoSiltronic: US Moorings **Calibration Date:** 3/17/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100138 **Signal ID:** Rtx-CLPesticides2
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100138-01	PENTA02-25D-10PPB	J:\GC34\DATA\031721\03170000005.D	03/17/2021 11:54
02	KC2100138-02	PENTA02-25E-25PPB	J:\GC34\DATA\031721\03170000006.D	03/17/2021 12:18
03	KC2100138-03	PENTA02-24K-75PPB	J:\GC34\DATA\031721\03170000007.D	03/17/2021 12:42
04	KC2100138-04	PENTA02-24L-100PPB	J:\GC34\DATA\031721\03170000008.D	03/17/2021 13:06
05	KC2100138-05	PENTA02-24M-125PPB	J:\GC34\DATA\031721\03170000009.D	03/17/2021 13:30
06	KC2100138-06	PENTA02-24N-150PPB	J:\GC34\DATA\031721\03170000010.D	03/17/2021 13:54
07	KC2100138-07	PENTA02-25A-175PPB	J:\GC34\DATA\031721\03170000011.D	03/17/2021 14:18
08	KC2100138-08	PENTA02-25B-200PPB	J:\GC34\DATA\031721\03170000012.D	03/17/2021 14:42

Analyte

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	1.389E6	02	23.760	1.421E6	03	71.300	1.361E6	04	95.100	1.481E6
05	118.820	1.512E6	06	142.580	1.487E6	07	166.340	1.508E6	08	190.100	1.543E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	8.004E5	02	23.510	7.559E5	03	70.500	6.794E5	04	94.000	7.304E5
05	117.540	7.395E5	06	141.050	7.257E5	07	164.560	7.331E5	08	188.060	7.497E5

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	4.449E5	02	22.550	4.044E5	03	67.600	3.439E5	04	90.200	3.622E5
05	112.730	3.63E5	06	135.280	3.556E5	07	157.830	3.582E5	08	180.370	3.638E5

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102811
Calibration Date: 3/17/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100138
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP (Silvex)	TRG	Average RF	% RSD	4.4	≤20	1.463E6	
2,4-D	TRG	Average RF	% RSD	4.6	≤20	7.393E5	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	8.9	≤20	3.745E5	

Client: Anchor QEA, LLC **Service Request:** K2102811
Project: GascoSiltronic: US Moorings **Calibration Date:** 3/17/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100138 **Signal ID:** Rtx-CLPesticides
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
10	KC2100138-10	PENTA02-25C-100PPB ICV	J:\GC34\DATA\031721\03170000013.D	03/17/2021 15:06

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	94.2	4.29E6	4.249E6	-0.974	±20	Average RF
2,4-D	94.0	86.2	9.78E5	8.971E5	-8.268	±20	Average RF

Client: Anchor QEA, LLC **Service Request:** K2102811
Project: GascoSiltronic: US Moorings **Calibration Date:** 3/17/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100138 **Signal ID:** Rtx-CLPesticides2
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
10	KC2100138-10	PENTA02-25C-100PPB ICV	J:\GC34\DATA\031721\03170000013.D	03/17/2021 15:06

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	91.8	1.463E6	1.412E6	-3.476	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	03/31/21 10:23

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	3/17/2021
File ID:	J:\GC34\DATA\033121\03310000006.D\	**Calibration ID:**	KC2100138
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	718306
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	87.9	4.29E6	3.966E6	-7.5	NA	±20	Average RF
2,4-D	94.0	84.7	9.78E5	8.812E5	-9.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	84.9	1.03E6	8.748E5	-15.1	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	03/31/21 10:23

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	3/17/2021
File ID:	J:\GC34\DATA\033121\03310000006.D\	**Calibration ID:**	KC2100138
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	718306
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	91.6	1.463E6	1.409E6	-3.7	NA	±20	Average RF
2,4-D	94.0	88.3	7.393E5	6.946E5	-6.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	83.3	3.745E5	3.118E5	-16.7	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	03/31/21 14:50

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	3/17/2021
File ID:	J:\GC34\DATA\033121\03310000017.D\	**Calibration ID:**	KC2100138
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	718306
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	89.1	4.29E6	4.019E6	-6.3	NA	±20	Average RF
2,4-D	94.0	84.0	9.78E5	8.744E5	-10.6	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	82.9	1.03E6	8.544E5	-17.1	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	03/31/21 14:50

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	3/17/2021
File ID:	J:\GC34\DATA\033121\03310000017.D\	**Calibration ID:**	KC2100138
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	718306
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	98.4	1.463E6	1.514E6	3.5	NA	±20	Average RF
2,4-D	94.0	93.5	7.393E5	7.353E5	-0.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	86.1	3.745E5	3.224E5	-13.9	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	03/31/21 18:05

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	3/17/2021
File ID:	J:\GC34\DATA\033121\03310000025.D\	**Calibration ID:**	KC2100138
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	718306
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	97.6	4.29E6	4.405E6	2.7	NA	±20	Average RF
2,4-D	94.0	91.1	9.78E5	9.48E5	-3.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	86.7	1.03E6	8.931E5	-13.3	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2102811
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	03/31/21 18:05

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	3/17/2021
File ID:	J:\GC34\DATA\033121\03310000025.D\	**Calibration ID:**	KC2100138
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	718306
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	100	1.463E6	1.538E6	5.2	NA	±20	Average RF
2,4-D	94.0	96.3	7.393E5	7.576E5	2.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	88.1	3.745E5	3.298E5	-12.0	NA	±20	Average RF

Client: Anchor QEA, LLC **Service Request:**K2102811
Project: GascoSiltronic: US Moorings

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**718306
Instrument ID:K-GC-34

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC34\DATA\033121\03310000006.D\	Continuing Calibration Verification	KQ2105113-01	3/31/2021	10:23:14	
J:\GC34\DATA\033121\03310000007.D\	Continuing Calibration Blank	KQ2105113-02	3/31/2021	10:47:41	
J:\GC34\DATA\033121\03310000008.D\	Method Blank	KQ2104449-04	3/31/2021	11:11:46	
J:\GC34\DATA\033121\03310000009.D\	Lab Control Sample	KQ2104449-03	3/31/2021	11:36:20	
J:\GC34\DATA\033121\03310000010.D\	USMPDI-068RAB-10-20-210311 MS	KQ2104449-01	3/31/2021	12:00:24	
J:\GC34\DATA\033121\03310000011.D\	USMPDI-068RAB-10-20-210311 DMS	KQ2104449-02	3/31/2021	12:24:26	
J:\GC34\DATA\033121\03310000016.D\	ZZZZZZZ	ZZZZZZZ	3/31/2021	14:26:14	
J:\GC34\DATA\033121\03310000017.D\	Continuing Calibration Verification	KQ2105113-03	3/31/2021	14:50:28	
J:\GC34\DATA\033121\03310000018.D\	Continuing Calibration Blank	KQ2105113-04	3/31/2021	15:14:57	
J:\GC34\DATA\033121\03310000019.D\	USMPDI-068RAB-00-10-210311	K2102811-001	3/31/2021	15:39:19	
J:\GC34\DATA\033121\03310000020.D\	USMPDI-068RAB-10-20-210311	K2102811-002	3/31/2021	16:03:18	
J:\GC34\DATA\033121\03310000021.D\	USMPDI-068RAB-20-32.1-210312	K2102811-003	3/31/2021	16:27:41	
J:\GC34\DATA\033121\03310000022.D\	USMPDI-069RAB-00-10-210312	K2102811-004	3/31/2021	16:52:03	
J:\GC34\DATA\033121\03310000023.D\	USMPDI-069RAB-10-20-210312	K2102811-005	3/31/2021	17:16:24	
J:\GC34\DATA\033121\03310000024.D\	USMPDI-069RAB-20-36.3-210312	K2102811-006	3/31/2021	17:40:41	
J:\GC34\DATA\033121\03310000025.D\	Continuing Calibration Verification	KQ2105113-05	3/31/2021	18:05:04	
J:\GC34\DATA\033121\03310000026.D\	Continuing Calibration Blank	KQ2105113-06	3/31/2021	18:29:21	

Prep Summary Report

Client: Anchor QEA, LLC **Service Request:**K2102811
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Chlorinated Herbicides by GC

Prep Method: Method **Extraction Lot:** 376223
Analytical Method: 8151A **Extraction Date:** 03/24/21 21:30

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-068RAB-00-10-210311	K2102811-001	3/11/21	3/19/21	32.188 g	50 mL	84.8
USMPDI-068RAB-10-20-210311	K2102811-002	3/11/21	3/19/21	30.129 g	50 mL	82.8
USMPDI-068RAB-20-32.1-210312	K2102811-003	3/12/21	3/19/21	30.690 g	50 mL	63.5
USMPDI-069RAB-00-10-210312	K2102811-004	3/12/21	3/19/21	30.699 g	50 mL	83.7
USMPDI-069RAB-10-20-210312	K2102811-005	3/12/21	3/19/21	30.841 g	50 mL	76.0
USMPDI-069RAB-20-36.3-210312	K2102811-006	3/12/21	3/19/21	30.437 g	50 mL	68.8
Matrix Spike	KQ2104449-01MS	3/11/21	3/19/21	30.250 g	50 mL	82.8
Duplicate Matrix Spike	KQ2104449-02DMS	3/11/21	3/19/21	30.511 g	50 mL	82.8
Lab Control Sample	KQ2104449-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2104449-04MB	NA	NA	32.1880 g	50 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

Total Solids

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

Work Request # K2102811

Tier: IV

Date Analyzed: 3/23/21

Analyst: BN Run # 717181

Analysis: Total Solids / SM2540G

DATA QUALITY REPORT
INORGANICS

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

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

COMMENTS:

Final Approved by: DAB Date: 3/24/21

DQREPORT

Analytical Results Summary

Instrument Name: K-Balance-41 **Analyst:** BNETLING **Analysis Lot:** 717181 **Method/Testcode:** SM 2540 G/TS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K2102811-001	Solids, Total	N/A		Soil	84.80 Percent	33.8757 g	84.8 Percent	1					3/23/21 14:15:00	N	IV
K2102811-002	Solids, Total	N/A		Soil	82.80 Percent	32.6638 g	82.8 Percent	1					3/23/21 14:15:00	Y	IV
K2102811-003	Solids, Total	N/A		Soil	63.50 Percent	27.4439 g	63.5 Percent	1					3/23/21 14:15:00	N	IV
K2102811-004	Solids, Total	N/A		Soil	83.70 Percent	38.3565 g	83.7 Percent	1					3/23/21 14:15:00	N	IV
K2102811-005	Solids, Total	N/A		Soil	76.00 Percent	31.1298 g	76.0 Percent	1					3/23/21 14:15:00	N	IV
K2102811-006	Solids, Total	N/A		Soil	68.80 Percent	29.6110 g	68.8 Percent	1					3/23/21 14:15:00	N	IV
KQ2104551-01	Solids, Total	MB		Soil	0.00 Percent	50.6280 g	0.0 Percent	1					3/23/21 14:15:00	N	IV
KQ2104551-02	Solids, Total	DUP	K2102811-002	Soil	82.50 Percent	32.1618 g	82.5 Percent	1				<1	3/23/21 14:15:00	N	IV

DAB 3/24/21

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

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2102811 Method: SM 2540 G

Run: 717181

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

Sample Number		MB	2811-001	2811-002	2811-002DUP	2811-003	2811-004
Crucible Number		PETER	7G	6	JAHA	24	M1
SampleWeight		50.6280	33.8757	32.6638	32.1618	27.4439	38.3565
Tare Weight	Date	46.5561	56.0880	48.7730	53.5778	47.8499	57.5251
Tare + Dry Wt. (1)	3./24/2021	46.5552	84.8080	75.8172	80.1104	65.2681	89.6153
Tare + Dry Wt. (2)	3/24/2021	46.5541	84.8147	75.8244	80.1159	65.2697	89.6203
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	84.8%	82.8%	82.5%	63.5%	83.7%
Volatile Solids		-2327705.0%	295.2%	280.3%	301.9%	374.7%	279.2%

Sample Number		2811-005	2811-006				
Crucible Number		LINCOLN	25				
Sample Weight		31.1298	29.6110				
Tare Weight	Date	52.2138	51.3840				
Tare + Dry Wt. (1)	3/24/2021	75.8538	71.7378				
Tare + Dry Wt. (2)	3/24/2021	75.8583	71.7467				
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		76.0%	68.8%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Volatile Solids		320.8%	352.3%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

% Total Solids = (Tare + Dry Wt. - Tare / Sample Weight)

% Volatile Solids = (Dry Wt. - Ash Wt. / Dry Sample Weight)

Comments:

105 oven: K - OVEN 07

550 oven: K -Furnace-01 K-Balance- 41

Analyzed By:	BN	Date:	3/23/2021
Reviewed By:	DAB	Date:	3/24/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2102811 Method: SM 2540 G

Run: 717181

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	14:15	3/23/2021	8:30	3/24/2021
105	9:35	3/24/2021	10:45	3/24/2021

Analyzed By:	BN	Date Analyzed:	3/23/2021
Reviewed By:	DAB	Date Reviewed:	3/24/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2102811 Method: SM 2540 G

Run: 717181

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

CCV Verification SN:1000122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9964	100.0%	CCV1	9.9984	100.0%	3/23/2021
CCV2	199.9959	100.0%	CCV2	9.9983	100.0%	3/23/2021
CCV3	199.9961	100.0%	CCV3	9.9981	100.0%	3/24/2021
CCV4	199.9958	100.0%	CCV4	9.9980	100.0%	3/24/2021
CCV5	199.9966	100.0%	CCV5	9.9983	100.0%	3/24/2021
CCV6	199.9968	100.0%	CCV6	9.9983	100.0%	3/24/2021
~~CCV7~~		~~0.0%~~	~~CCV7~~		~~0.0%~~	
~~CCV8~~		~~0.0%~~	~~CCV8~~		~~0.0%~~	
~~CCV9~~		~~0.0%~~	~~CCV9~~		~~0.0%~~	
~~CCV10~~		~~0.0%~~	~~CCV10~~		~~0.0%~~	
~~CCV11~~		~~0.0%~~	~~CCV11~~		~~0.0%~~	
~~CCV12~~		~~0.0%~~	~~CCV12~~		~~0.0%~~	
~~CCV13~~		~~0.0%~~	~~CCV13~~		~~0.0%~~	
~~CCV14~~		~~0.0%~~	~~CCV14~~		~~0.0%~~	
~~CCV15~~		~~0.0%~~	~~CCV15~~		~~0.0%~~	
~~CCV16~~		~~0.0%~~	~~CCV16~~		~~0.0%~~	
~~CCV17~~		~~0.0%~~	~~CCV17~~		~~0.0%~~	
~~CCV18~~		~~0.0%~~	~~CCV18~~		~~0.0%~~	
~~CCV19~~		~~0.0%~~	~~CCV19~~		~~0.0%~~	
~~CCV20~~		~~0.0%~~	~~CCV20~~		~~0.0%~~	

Analyzed By:	BN	Date Analyzed:	3/23/2021
Reviewed By:	DAB	Date Reviewed:	3/24/21

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#: 376223
Team: Semivoa GC/GTRIGG
Number of Copies to make: 3

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: ~~3/23/21 11:44~~ 3.24.21 2130

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2102809-011	USMPDI-064RAB-00-10-210310	.01	8151A/HERB		Soil	31.369g	50.00mL	JGRIMES k-balance-50
2	K2102809-012	USMPDI-064RAB-10-20-210311	.01	8151A/HERB		Soil	30.740g	50.00mL	JGRIMES k-balance-50
3	K2102809-013	USMPDI-064RAB-20-23.4-210311	.01	8151A/HERB		Soil	31.752g	50.00mL	JGRIMES k-balance-50
4	K2102809-014	USMPDI-1064-RAB-10-20-210311	.01	8151A/HERB		Soil	31.055g	50.00mL	JGRIMES k-balance-50
5	K2102868-001	EV21030151-01	.01	8151A/HERB		Soil	30.802g	50.00mL	SCHAPPELLE K-BALANCE-47
6	K2102811-001	USMPDI-068RAB-00-10-210311	.01	8151A/HERB		Soil	32.188g	50.00mL	JGRIMES k-balance-50
7	K2102811-002	USMPDI-068RAB-10-20-210311	.01	8151A/HERB		Soil	30.129g	50.00mL	JGRIMES k-balance-50
8	KQ2104449-01	K2102811-002 MS	.01	8151A/HERB		Solid	30.250g	50.00mL	JGRIMES k-balance-50
9	KQ2104449-02	K2102811-002 DMS	.01	8151A/HERB		Solid	30.511g	50.00mL	JGRIMES k-balance-50
10	K2102811-003	USMPDI-068RAB-20-32.1-210312	.01	8151A/HERB		Soil	30.690g	50.00mL	JGRIMES k-balance-50
11	K2102811-004	USMPDI-069RAB-00-10-210312	.01	8151A/HERB		Soil	30.699g	50.00mL	JGRIMES k-balance-50
12	K2102811-005	USMPDI-069RAB-10-20-210312	.01	8151A/HERB		Soil	30.841g	50.00mL	JGRIMES k-balance-50
13	K2102811-006	USMPDI-069RAB-20-36.3-210312	.01	8151A/HERB		Soil	30.437g	50.00mL	JGRIMES k-balance-50
14	KQ2104449-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	
15	KQ2104449-04	MB		8151A/HERB		Solid	32.1880g	50.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate Inventory ID 215465 Logbook Ref: Penta02-16IK Expires On: 05/24/2021

K2102809-011	1,000.00µL	K2102809-012	1,000.00µL	K2102809-013	1,000.00µL	K2102809-014	1,000.00µL	K2102811-001	1,000.00µL	K2102811-002	1,000.00µL
K2102811-003	1,000.00µL	K2102811-004	1,000.00µL	K2102811-005	1,000.00µL	K2102811-006	1,000.00µL	K2102868-001	1,000.00µL	KQ2104449-01	1,000.00µL
KQ2104449-02	1,000.00µL	KQ2104449-03	1,000.00µL	KQ2104449-04	1,000.00µL						

Name: 8151A 5-500ppm Herbicides matrix spike Inventory ID 216037 Logbook Ref: Penta02-24H Expires On: 09/04/2021

KQ2104449-01	1,000.00µL	KQ2104449-02	1,000.00µL	KQ2104449-03	1,000.00µL

Preparation Steps

Step:	Weigh	Step:	Extraction	Step:	Derivitization	Step:	Final Volume
Started:	3/23/21 11:44	Started:	3/26/21 16:15	Started:	3/29/21 16:25	Started:	3/29/21 18:13
Finished:	3/23/21 ~~23:53~~ 1153	Finished:	3/26/21 18:05	Finished:	3/29/21 16:55	Finished:	3/29/21 18:13
By:	~~GTRIGG~~	By:	GTRIGG	By:	GTRIGG	By:	GTRIGG
Comments	JGRIMES	Comments		Comments		Comments	

03.30.21

Preparation Information Benchsheet

Prep Run#: 376223
Team: Semivoa GC/GTRIGG

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 3/23/21 11:44

Comments: Slytherin A1-B5

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: 3/29/21

Received By: _____ Date: 3.31.21

Extracts Examined
(Yes) No

Preparation Information Benchsheet

Prep Run#: 376223
Team: Semivoa GC/GTRIGG
Number of Copies to make: 3

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Draft
Prep Date/Time: 3/23/21 11:44 AM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. g	pH	Int. Vol	Final Vol	Surr Amt	Spike Amt
1	K2102809-011	USMPDI-064RAB-00-10-210310	.01		8151A / HERB	Soil	31.369	/	10	1	1000	—
2	K2102809-012	USMPDI-064RAB-10-20-210311	.01		8151A / HERB	Soil	30.740	/	10	1		—
3	K2102809-013	USMPDI-064RAB-20-23.4-210311	.01		8151A / HERB	Soil	31.752	/	10	1		—
4	K2102809-014	USMPDI-1064-RAB-10-20-210311	.01		8151A / HERB	Soil	31.055	/	10	1		—
5	K2102868-001	EV21030151-01	.01		8151A / HERB	Soil	30.802	/	10	1		—
6	K2102811-001	USMPDI-068RAB-00-10-210311	.01		8151A / HERB	Soil	32.188	/	10	1		—
7	KQ2104449-01	K2102811-002 MS	.01		8151A / HERB	Solid	30.~~129~~250	/	10	1		1000
8	KQ2104449-02	K2102811-002 DMS	.01		8151A / HERB	Solid	30.511	/	10	1		1000
9	K2102811-003	USMPDI-068RAB-20-32.1-210312	.01		8151A / HERB	Soil	30.690	/	10	1		—
10	K2102811-004	USMPDI-069RAB-00-10-210312	.01		8151A / HERB	Soil	30.699	/	10	1		—
11	K2102811-005	USMPDI-069RAB-10-20-210312	.01		8151A / HERB	Soil	30.~~775~~841	/	10	1		—
12	K2102811-006	USMPDI-069RAB-20-36.3-210312	.01		8151A / HERB	Soil	30.~~859~~437	/	10	1		—
13	K2102811-002	USMPDI-068RAB-10-20-210311	.01		8151A / HERB	Soil	30.~~437~~129	/	10	1		—
14	KQ2104449-03	LCS			8151A / HERB	Solid	30.000	/	10	1		1000
15	KQ2104449-04	MB			8151A / HERB	Solid	32.188	/	10	1		—

* Instructed not to correct mistakes this way. —Jose 03.30.21

Comments:

Surrogate ID: Pentao2-16k Acetone 5ppm 1000/L x85/24/21

Spike ID: Pentao2-24H 5-5000ppm 1000µL XP 09/04/21

Witnessed By:

Analyst:

Assisted By:

Pre-Prep Information Benchsheet

Prep Run #: 376223 **Container Lot No:** 890598 **Prep Due Date:** Mar-25-2021

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2102811-001	.01	HERB : 8151A/	32.188g		JGRIMES k-balance-50
2	K2102811-002	.01	HERB : 8151A/	30.129g		JGRIMES k-balance-50
3	K2102811-002 MS KQ2104449-01	.01	HERB : 8151A/	30.250g		JGRIMES k-balance-50
4	K2102811-002 DMS KQ2104449-02	.01	HERB : 8151A/	30.511g		JGRIMES k-balance-50
5	K2102811-003	.01	HERB : 8151A/	30.690g		JGRIMES k-balance-50
6	K2102811-004	.01	HERB : 8151A/	30.699g		JGRIMES k-balance-50
7	K2102811-005	.01	HERB : 8151A/	30.841g		JGRIMES k-balance-50
8	K2102811-006	.01	HERB : 8151A/	30.437g		JGRIMES k-balance-50

Relinquished By: GD	Date/Time: 3/23/2021 1144	Received By:	Date/Time: 3/23/21 11:53

Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # k2102809, 2811, 2868 **Work Group #** kq2104449

Acidified Sulfate Lot # DZ0387P Matrix Sand Lot # 0124/8

Ethyl Ether Lot # DZ804-US Hydrochloric Acid Lot # 204/20a

Wrist Action Shaker Start (time/date/initial): 2130 3/24/21 GA

Wrist Action Shaker Stop (time/date/initial): 2200 3/24/21 GA

N-Evap (time/date/initial): 1145 3/26/21 GA N-Evap Thermometer ID: X Svm 004

Temp as measured: 20 °C Correction factor: 0.0 °C Adjusted temp: 20 °C

Saponification Start (time/date/initial): 1447 3/26/21 GA 37% KOH Lot # DZ03-80R

Saponification Stop (time/date/initial): 1547 3/26/21 GA

Extraction Start (time/date/initial): 1615 3/26/21 GA Sulfuric Acid Lot # DZ03-97I

Extraction Stop (time/date/initial): 1805 3/26/21 GA

Derivatization Start (time/date/initial): ~~1615~~ 1625 3/29/21 GA Diazomethane Lot # DZ03-44A

Derivatization Stop (time/date/initial): 1655 3/29/21 GA

Pipette (5 mL) Lot # 08420647

Solvent Exchange to Iso-Octane (time/date/initial): 1650 3/29/21 GA

Iso-Octane Lot # DZ155-US N-Evap Thermometer ID: X Svm 004

Temp as measured: 20 °C Correction factor: 0.0 °C Adjusted temp: 20 °C

Pipette (1 mL) Lot # HH136

Vial: Red Vial Storage: Slytherin A1-B5

Archive Storage: ~~B466~~ Luna

Additional Comments:

Bench Sheet Review Check List
☑ Hold times met (if no, reason:)
☑ Prep date, time, method, department, product code correct in stealth
☑ 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. Training circled.
☑ Extract storage recorded
☑ Additional prep sheet completely filled out (NA or line out blanks)
☑ All clean-ups have been noted on additional prep sheet
☑ Signed service request with Form V, if applicable, has been attached

1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000019.D\
Lab ID: K2102811-001
RunType: N/A
Matrix: Soil

Date Acquired: 3/31/21 15:39:19
Batch ID: 718306
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	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd 4w 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000019.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 15:39:19	**Vial:**	8
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2102811-001	**Raw Units:**	ppb

Bottle ID:	K2102811-001.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/11/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**	376223	**Report Group:**	K2102811
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	3/24/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		Report List ID:	18845

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	11.02	9.49	72248964	23431387	70.125	62.566	70	63	63	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-TP (Silvex)	13.34 -0.01	11.51	2170333	383257	0.506	0.262	0.93U	0.48U	2.7 U	Y
2,4-D	12.27 -0.01	10.93 -0.02	2232888	2051025	2.283	2.774	4.2U	5.1U	8.5 U	Y

Prep Amount:	32.188 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	84.80

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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000019.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 15:39:19 Operator: JTC
Sample : K2102811-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:10 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.020	9.487	72248964	23431387	70.125	62.566	
		Target Compounds							
1)	m	Dalapon	5.690	4.790f	259243	55546629	0.265	117.037	#
3)	m	Dicamba	0.000	9.640f	0	1080327	N.D.	0.900	#
4)	m	MCPP	11.263f	0.000	2664145	0	585.468	N.D.	#
5)	m	MCPA	11.570	10.263f	1709852	1433121	250.422	406.925	#
6)	m	Dichloroprop	0.000	10.737	0	207160	N.D.	0.595	#
7)	m	2,4-D	12.270	10.933	2232888	2051025	2.283	2.774	
8)	m	2,4,5-TP ...	13.340	11.510	2170333	383257	0.506	0.262	#
9)	m	2,4,5-T	0.000	12.047	0	1000463	N.D.	0.869	#
10)	m	2,4-DB	14.307	12.523f	4359573	161566	9.989	1.081	#
11)	m	Dinoseb	14.503	12.433	3512381	565381	1.357	0.613	#

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

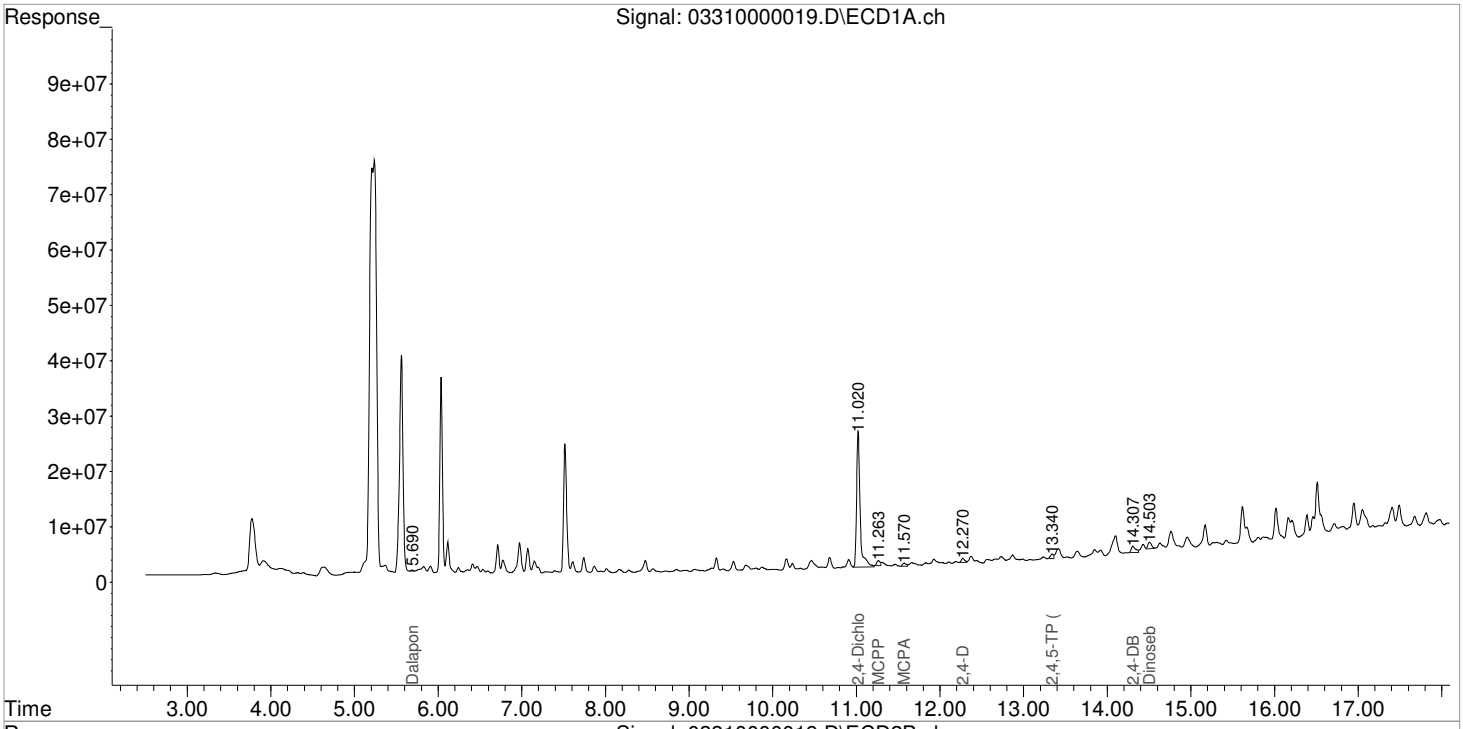
Quantitation Report (QT Reviewed)

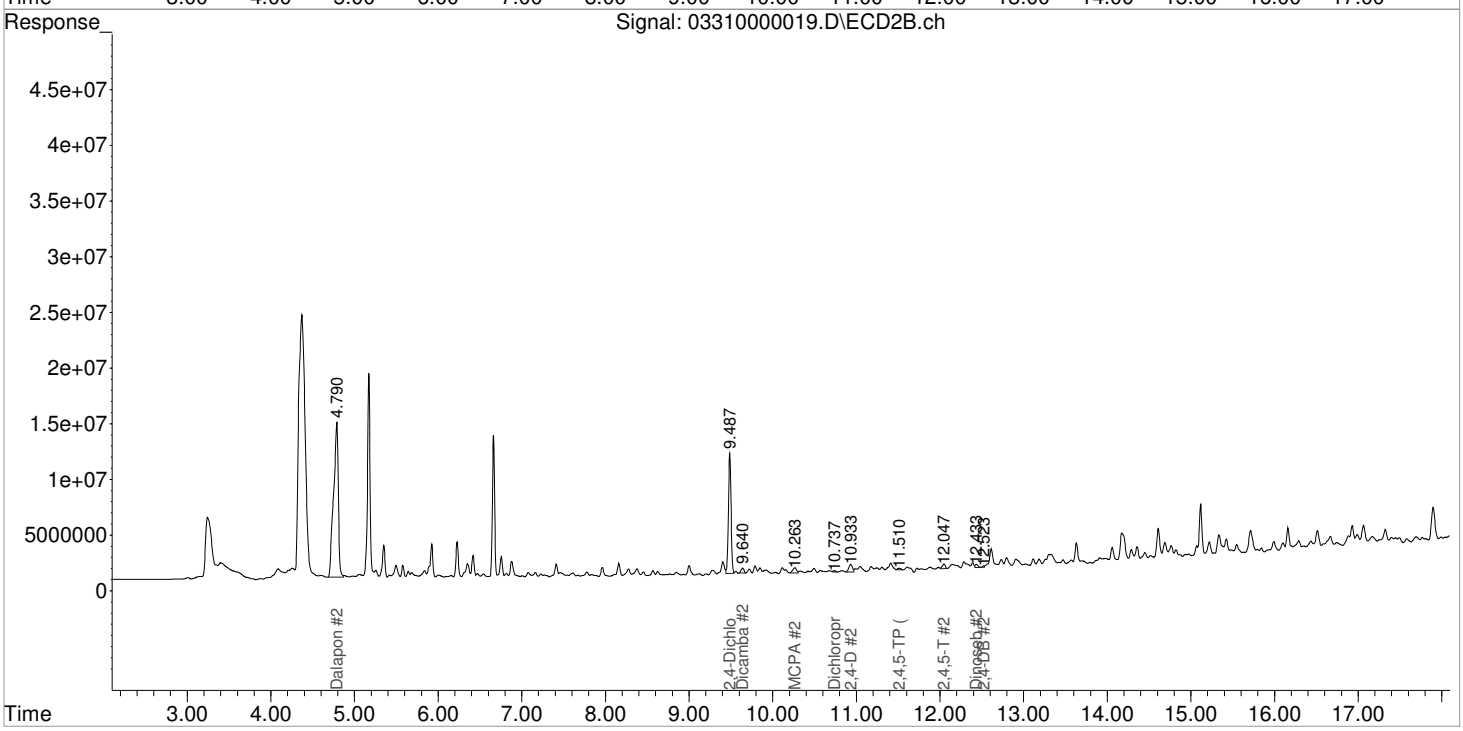
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000019.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 15:39:19 Operator: JTC
Sample : K2102811-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:10 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000020.D\
Lab ID: K2102811-002
RunType: N/A
Matrix: Soil

Date Acquired: 3/31/21 16:03:18
Batch ID: 718306
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	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd 4w 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000020.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 16:03:18	**Vial:**	9
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2102811-002	**Raw Units:**	ppb

Bottle ID:	K2102811-002.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/11/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**	376223	**Report Group:**	K2102811
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	3/24/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		Report List ID:	18845

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	11.02	9.49	58997703	20930833	57.263	55.889	57	56	56	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-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.9 U	Y
2,4-D	0.00	10.99 +0.04	0	267210	0.000	0.361	0U	0.72U	9.3 U	Y

Prep Amount:	30.129 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	82.80

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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000020.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 16:03:18 Operator: JTC
Sample : K2102811-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:13 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.020	9.487	58997703	20930833	57.263	55.889	
		Target Compounds							
1)	m	Dalapon	5.677	4.790f	1706675	4913540	1.745	10.353	#
3)	m	Dicamba	0.000	9.637f	0	253147	N.D.	0.211	#
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.	
5)	m	MCPA	11.570	10.263f	1821137	652217	266.721	185.193	#
6)	m	Dichloroprop	0.000	10.737	0	200870	N.D.	0.577	#
7)	m	2,4-D	0.000	10.990f	0	267210	N.D.	0.361	#
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	12.613f	0	1820527	N.D.	12.181	#
11)	m	Dinoseb	14.500	12.390f	25480823	249862	9.846	0.271	#

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

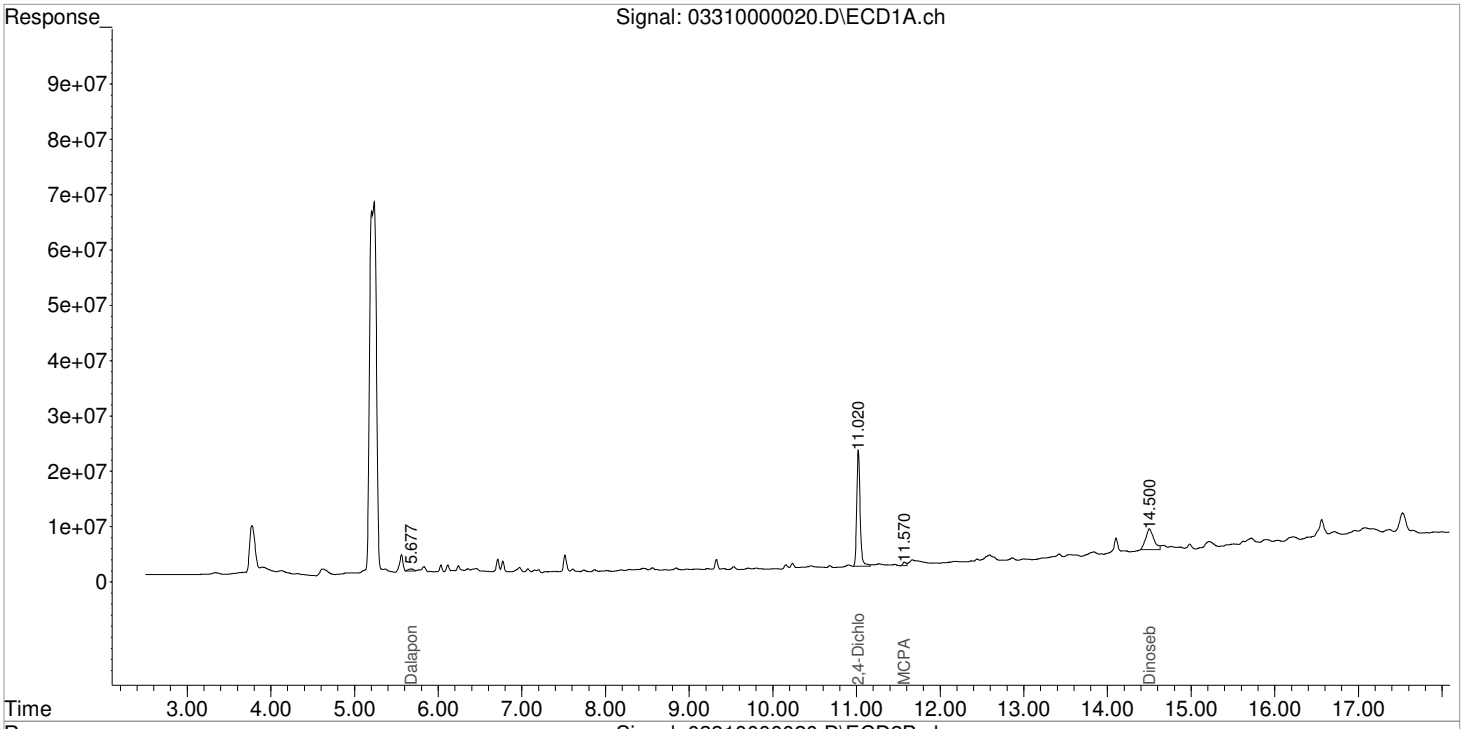
Quantitation Report (QT Reviewed)

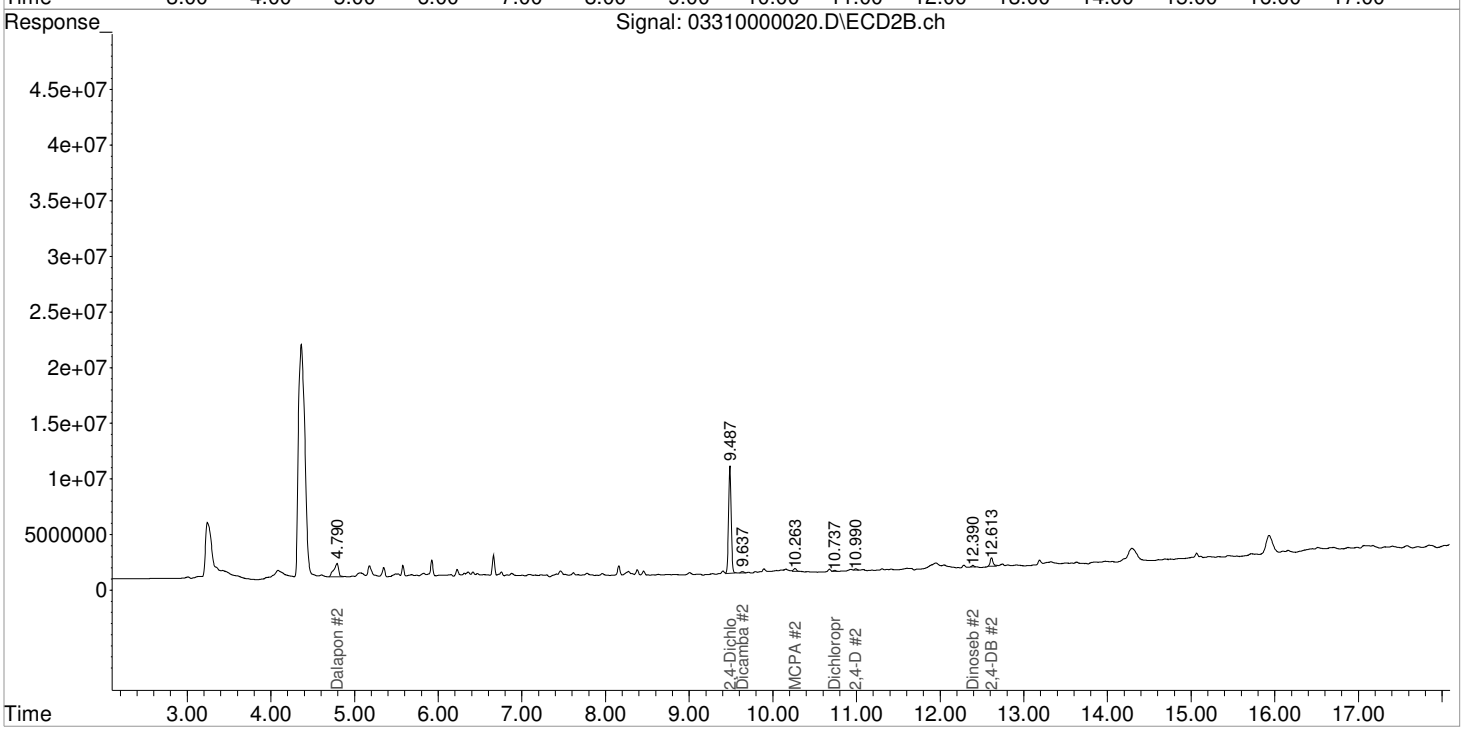
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000020.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 16:03:18 Operator: JTC
Sample : K2102811-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:13 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000021.D\
Lab ID: K2102811-003
RunType: N/A
Matrix: Soil

Date Acquired: 3/31/21 16:27:41
Batch ID: 718306
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	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd 4w 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000021.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 16:27:41	**Vial:**	12
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2102811-003	**Raw Units:**	ppb

Bottle ID:	K2102811-003.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/12/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**	376223	**Report Group:**	K2102811
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	3/24/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		Report List ID:	18845

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	11.02	9.49	72155942	26082721	70.034	69.646	70	70	70	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-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	3.7 U	Y
2,4-D	0.00	10.93 -0.02	0	1598781	0.000	2.163	0U	5.5U	12 U	Y

Prep Amount:	30.690 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	63.50

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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000021.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 16:27:41 Operator: JTC
Sample : K2102811-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:02:41 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.020	9.487	72155942	26082721	70.034	69.646	
		Target Compounds							
1)	m	Dalapon	5.690	0.000	1522021	0	1.556	N.D.	#
3)	m	Dicamba	0.000	9.640f	0	584268	N.D.	0.487	#
4)	m	MCPP	11.267f	0.000	1395936	0	306.769	N.D.	d#
5)	m	MCPA	11.570	10.263f	1166580	480426	170.855	136.414	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	
7)	m	2,4-D	0.000	10.933	0	1598781	N.D.	2.163	#
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	
9)	m	2,4,5-T	0.000	12.047	0	349072	N.D.	0.303	#
10)	m	2,4-DB	0.000	12.530	0	170162	N.D.	1.139	#
11)	m	Dinoseb	14.497	12.390f	3815243	1133698	1.474	1.228	

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

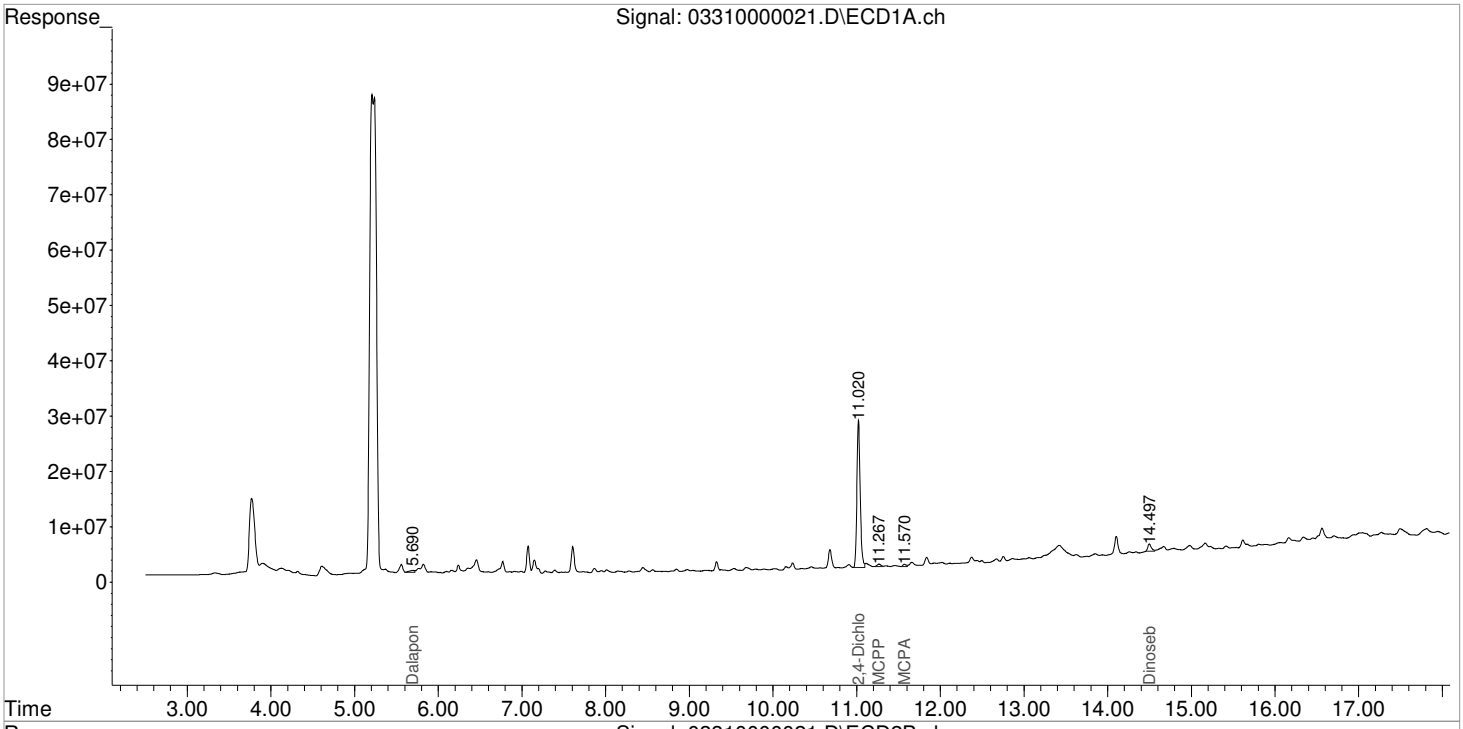
Quantitation Report (QT Reviewed)

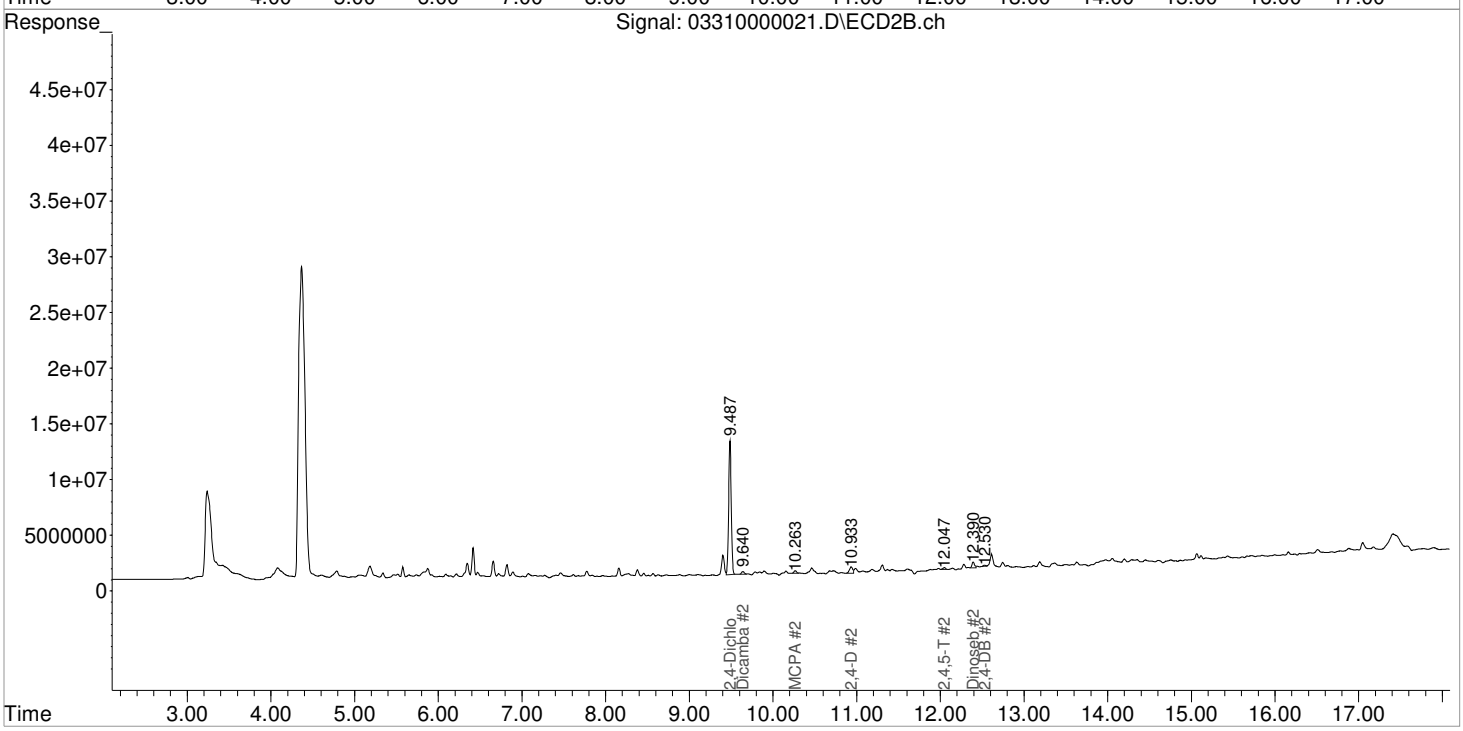
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000021.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 16:27:41 Operator: JTC
Sample : K2102811-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:02:41 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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



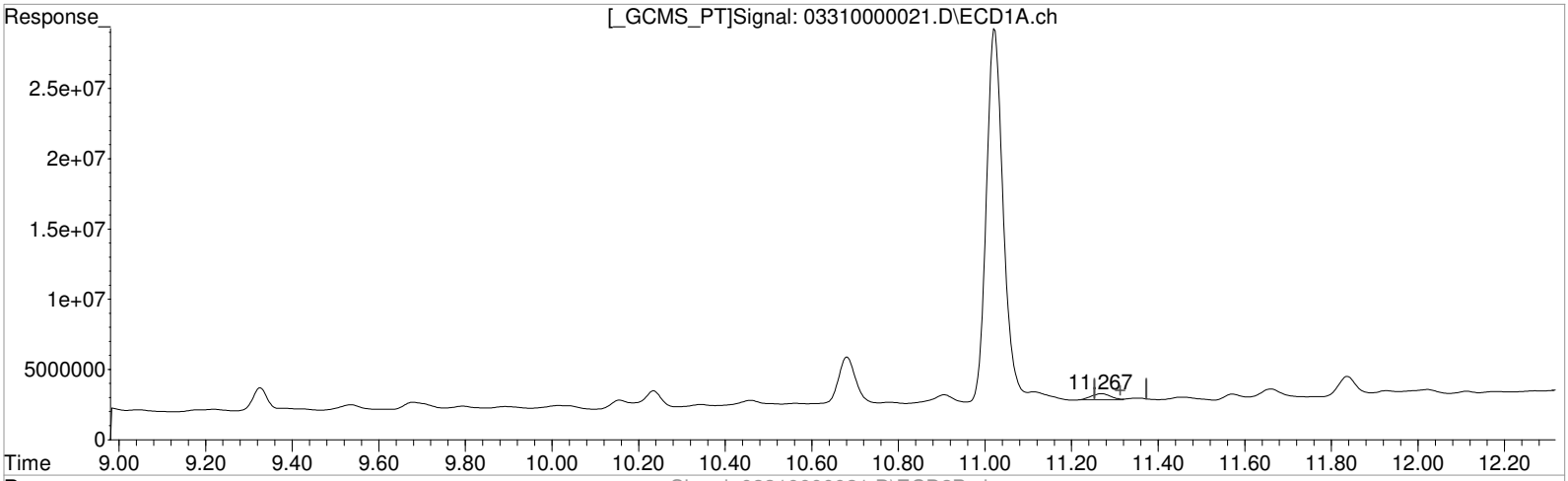


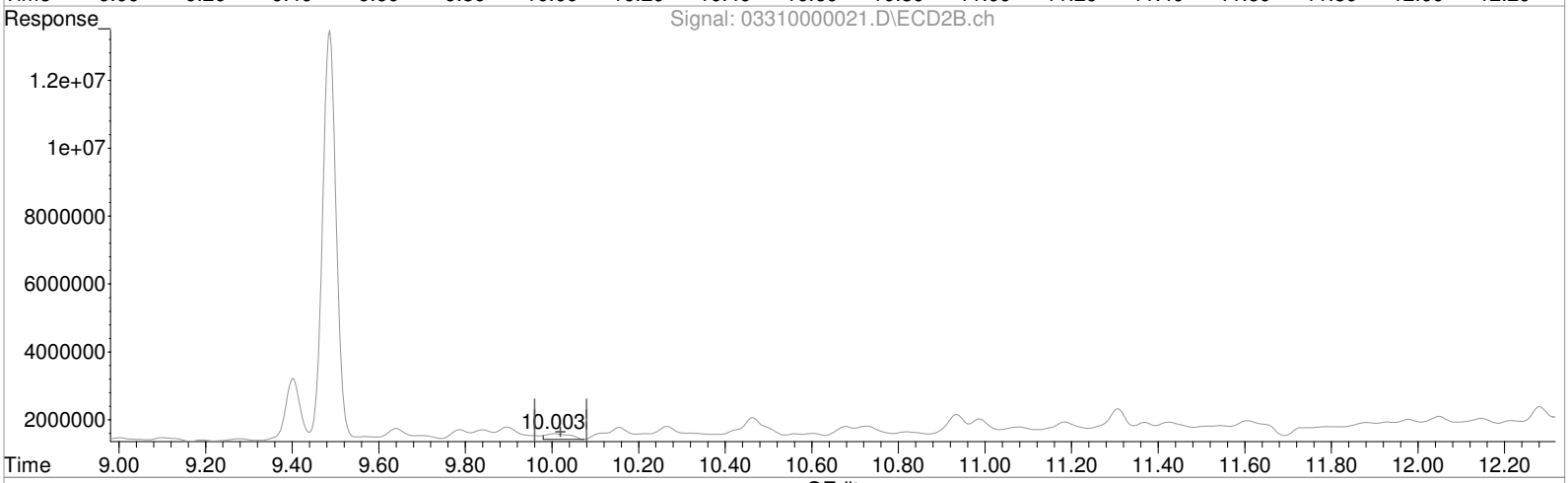
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000021.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 16:27:41 Operator: JTC
Sample : K2102811-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:16 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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

(4) MCPP (m)

11.267min 306.769 ppb

response 1395936

(4) MCPP #2 (m)

10.003min 424727.273 ppb

response 650915

Manual Integration:

Before

04/01/21

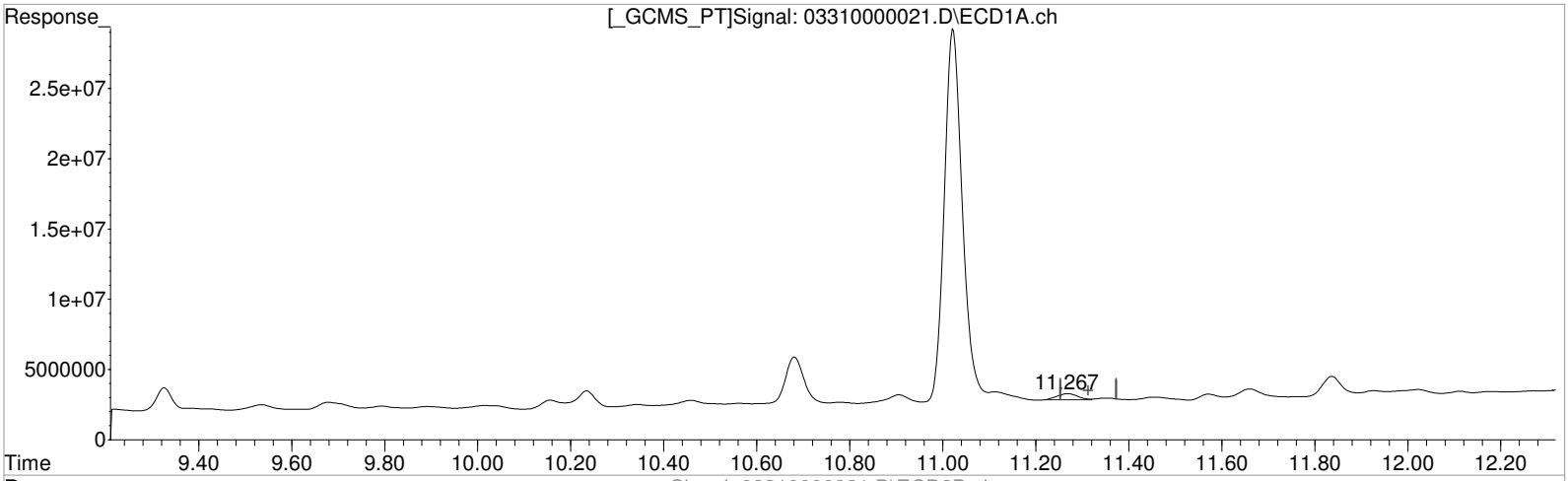
(+) = Expected Retention Time

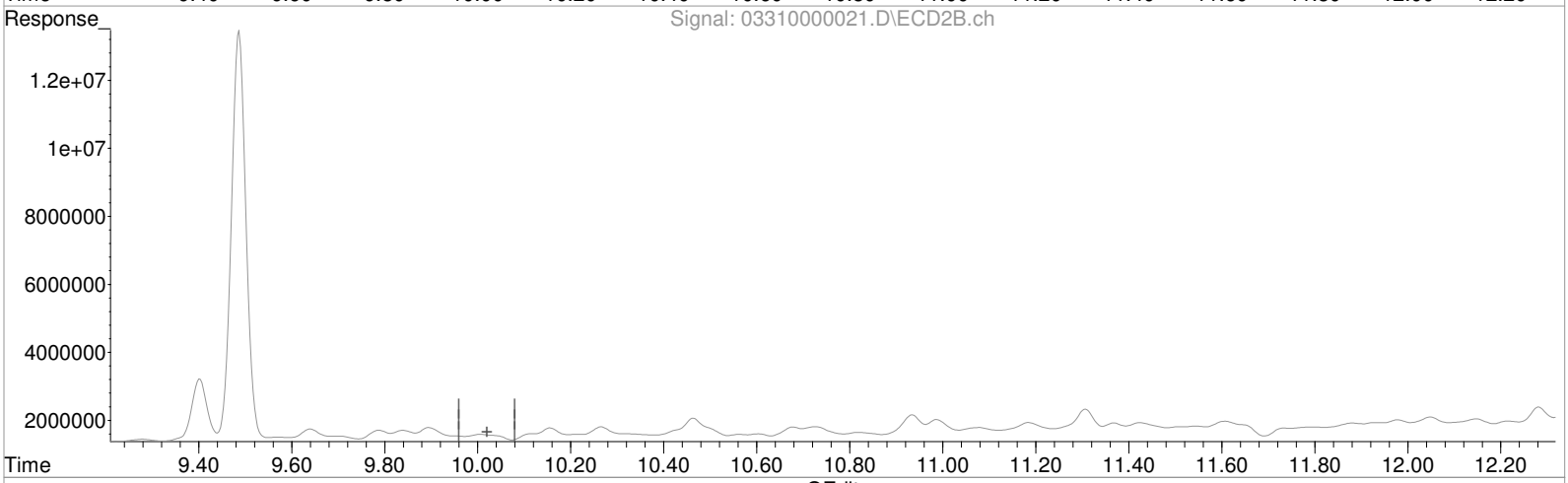
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000021.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 16:27:41 Operator: JTC
Sample : K2102811-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:16 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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

(4) MCPP (m)

11.267min 306.769 ppb

response 1395936

Manual Integration:

After

Quad Error

04/01/21

(4) MCPP #2 (m)

0.000min 0.000 ppb d

response 0

(+) = Expected Retention Time

1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000022.D\
Lab ID: K2102811-004
RunType: N/A
Matrix: Soil

Date Acquired: 3/31/21 16:52:03
Batch ID: 718306
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	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd 4w 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000022.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 16:52:03	**Vial:**	13
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2102811-004	**Raw Units:**	ppb

Bottle ID:	K2102811-004.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/12/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**	376223	**Report Group:**	K2102811
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	3/24/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		Report List ID:	18845

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	11.02	9.49	66301039	24424297	64.352	65.217	64	65	64	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-TP (Silvex)	13.34 -0.01	11.52 +0.01	1428033	377579	0.333	0.258	0.65U	0.50U	2.9 U	Y
2,4-D	12.27 -0.01	10.94 -0.01	2774182	1283478	2.837	1.736	5.5U	3.4U	9.0 U	Y

Prep Amount:	30.699 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	83.70

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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000022.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 16:52:03 Operator: JTC
Sample : K2102811-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:19 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.020	9.487	66301039	24424297	64.352	65.217	
		Target Compounds							
1)	m	Dalapon	5.690	0.000	249236	0	0.255	N.D.	#
3)	m	Dicamba	0.000	9.640f	0	1125252	N.D.	0.937	#
4)	m	MCPP	11.263f	0.000	8571296	0	1883.614	N.D.	#
5)	m	MCPA	11.570	10.337	2859641	452536	418.818	128.495	#
6)	m	Dichloroprop	0.000	10.703f	0	1374690	N.D.	3.949	#
7)	m	2,4-D	12.273	10.937	2774182	1283478	2.837	1.736	#
8)	m	2,4,5-TP ...	13.337	11.517	1428033	377579	0.333	0.258	
9)	m	2,4,5-T	0.000	12.043	0	1031274	N.D.	0.896	#
10)	m	2,4-DB	14.307	12.610f	2644025	5576914	6.058	37.315	#
11)	m	Dinoseb	14.503	12.390f	4239505	396949	1.638	0.430	#

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

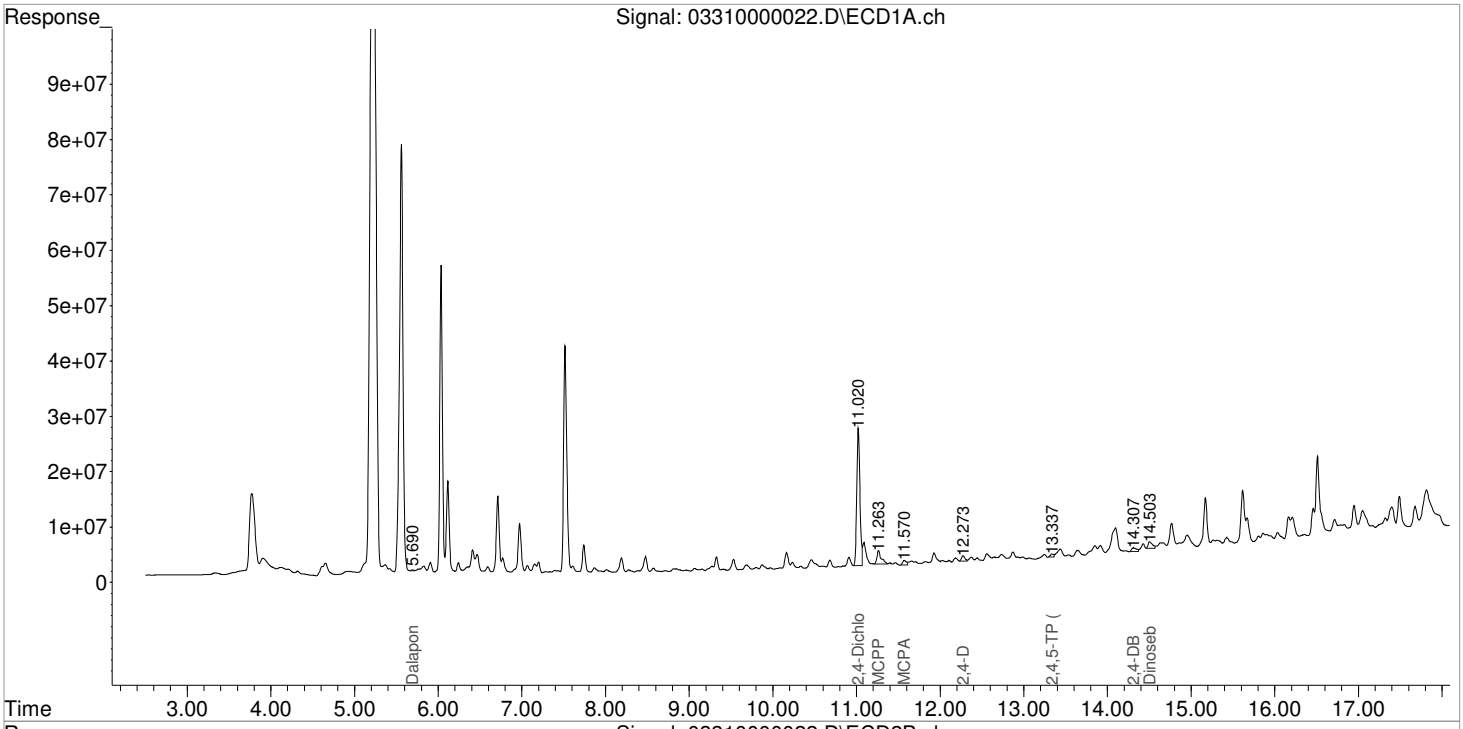
Quantitation Report (QT Reviewed)

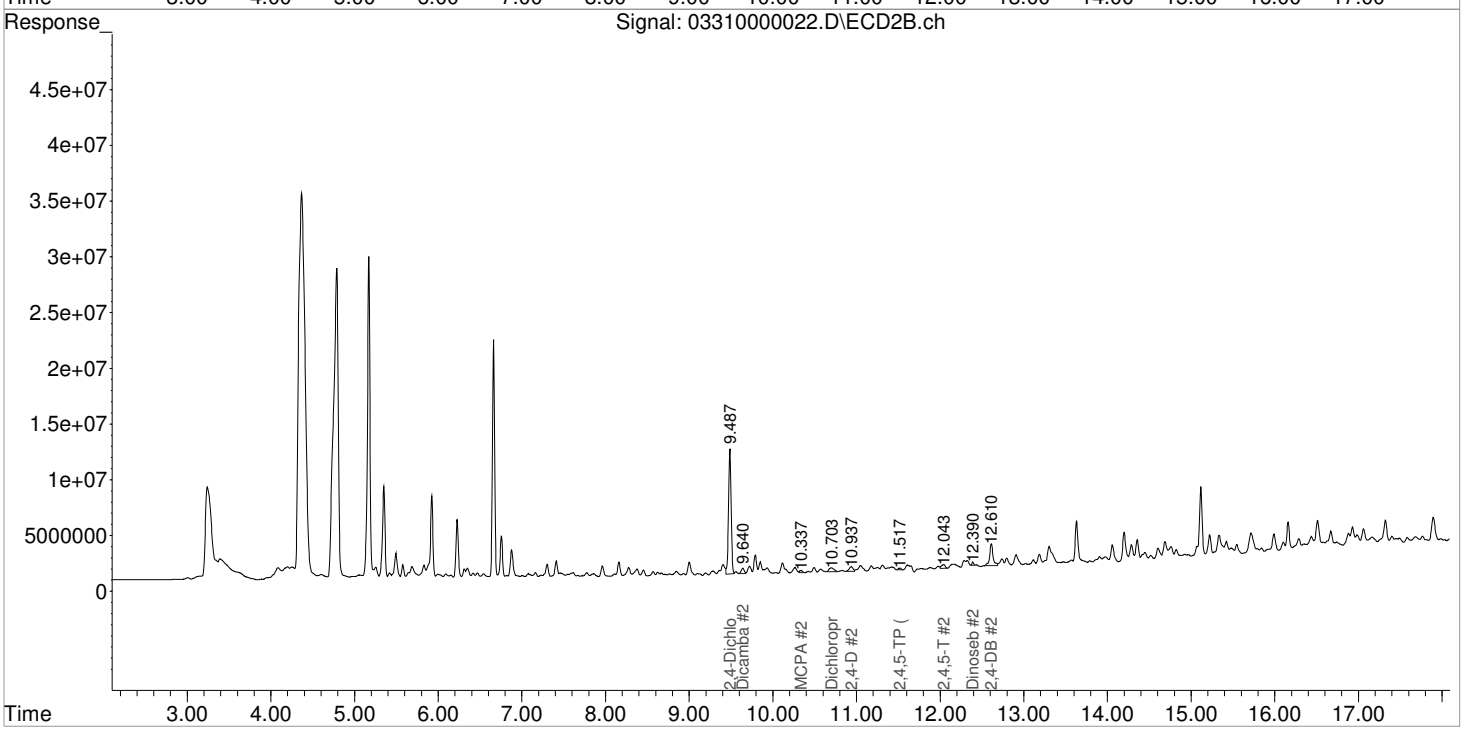
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000022.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 16:52:03 Operator: JTC
Sample : K2102811-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:19 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000023.D\
Lab ID: K2102811-005
RunType: N/A
Matrix: Soil

Date Acquired: 3/31/21 17:16:24
Batch ID: 718306
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	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd JW 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000023.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 17:16:24	**Vial:**	14
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2102811-005	**Raw Units:**	ppb

Bottle ID:	K2102811-005.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/12/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**	376223	**Report Group:**	K2102811
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	3/24/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		Report List ID:	18845

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	11.02	9.48 -0.01	65553831	23576204	63.626	62.953	64	63	63	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-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	3.1 U	Y
2,4-D	12.27 -0.01	10.93 -0.02	1965991	2721112	2.010	3.681	4.3U	7.9U	9.9 U	Y

Prep Amount:	30.841 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	76.00

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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000023.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 17:16:24 Operator: JTC
Sample : K2102811-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:22 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.020	9.483	65553831	23576204	63.626	62.953	
		Target Compounds							
1)	m	Dalapon	5.683	0.000	1407452	0	1.439	N.D.	#
3)	m	Dicamba	0.000	9.640f	0	848271	N.D.	0.706	#
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.	
5)	m	MCPA	11.570	10.263f	1809968	968211	265.085	274.917	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	
7)	m	2,4-D	12.270	10.930	1965991	2721112	2.010	3.681	#
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	
9)	m	2,4,5-T	0.000	12.050	0	969129	N.D.	0.842	#
10)	m	2,4-DB	14.303	12.613f	9165283	3982205	21.000	26.645	#
11)	m	Dinoseb	14.503	12.390f	19675384	422436	7.603	0.458	#

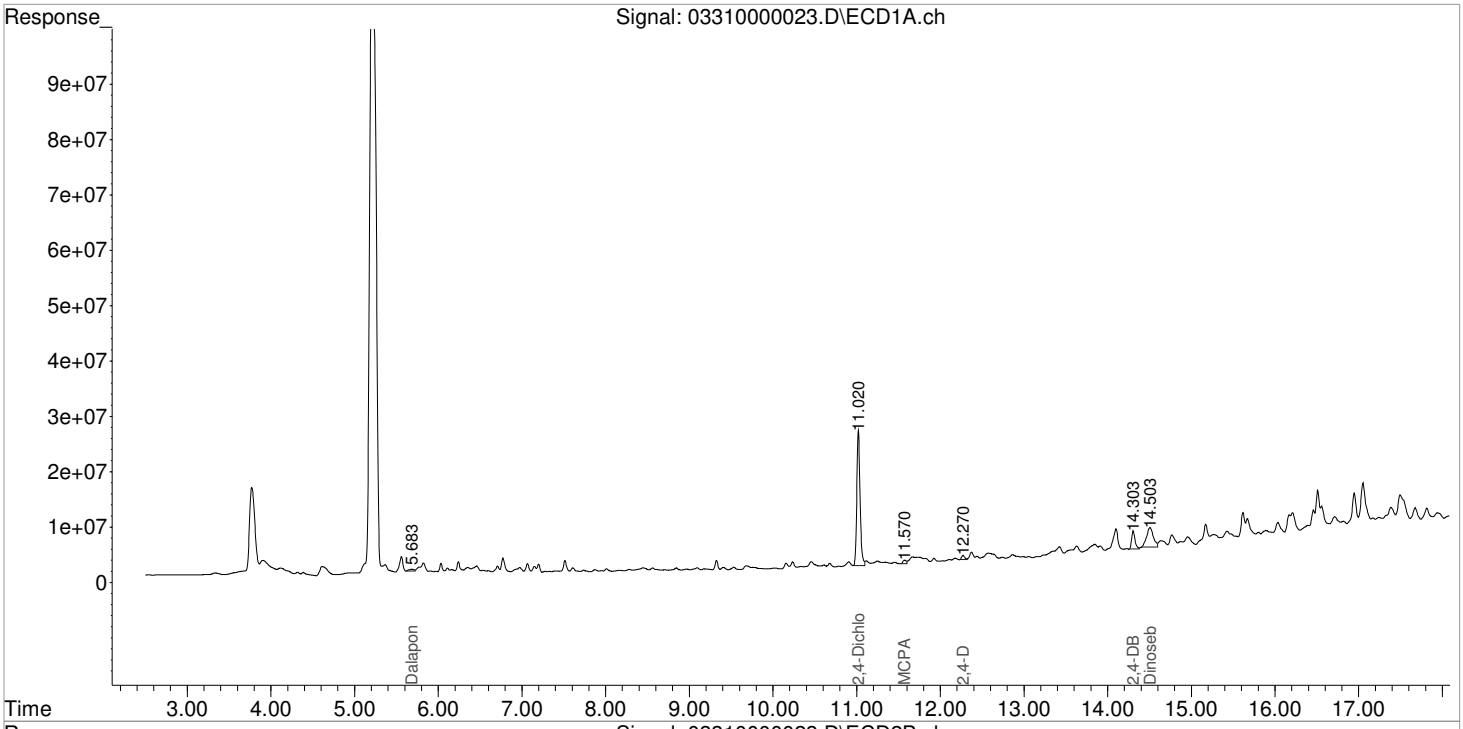
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

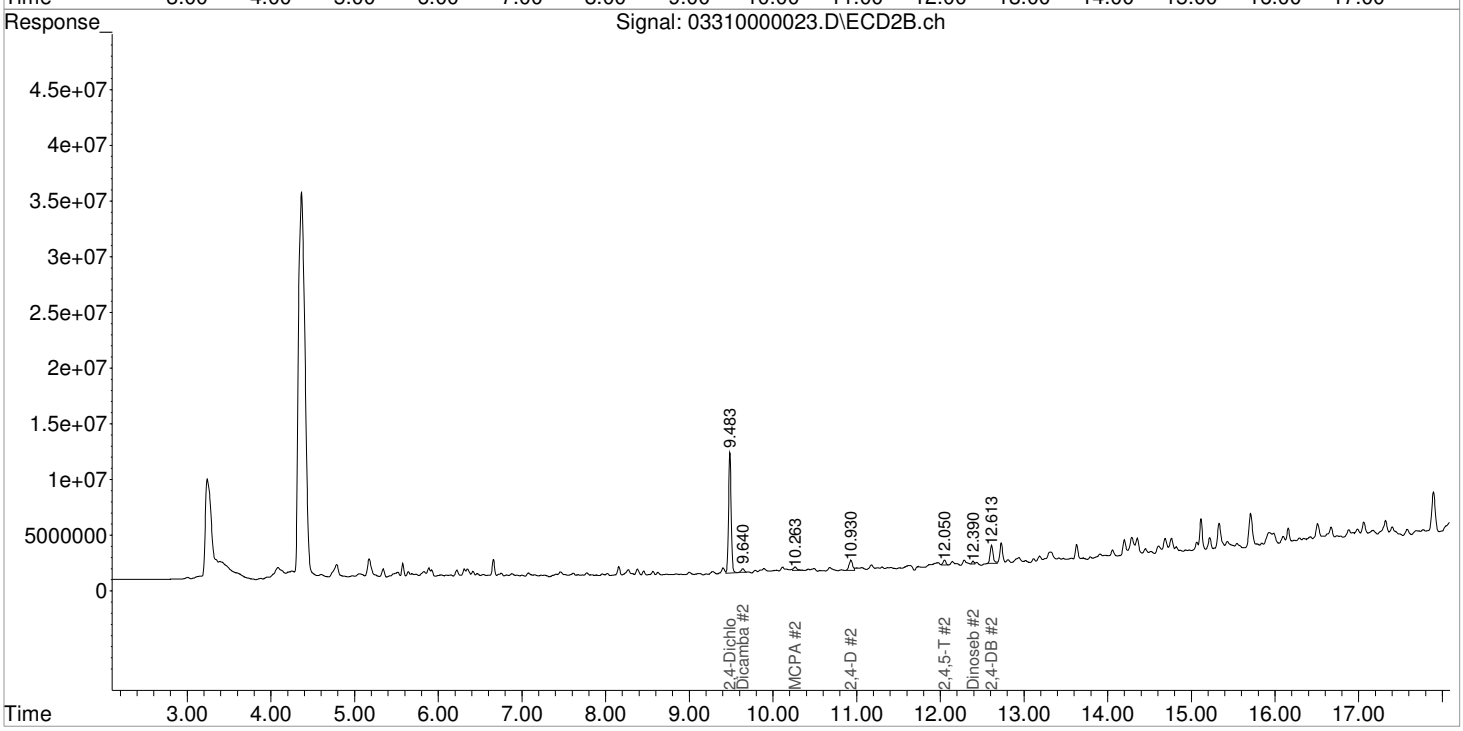
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000023.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 17:16:24 Operator: JTC
Sample : K2102811-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:22 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000024.D\
Lab ID: K2102811-006
RunType: N/A
Matrix: Soil

Date Acquired: 3/31/21 17:40:41
Batch ID: 718306
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	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd 4w 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000024.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 17:40:41	**Vial:**	15
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2102811-006	**Raw Units:**	ppb

Bottle ID:	K2102811-006.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/12/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**	376223	**Report Group:**	K2102811
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	3/24/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		Report List ID:	18845

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	11.02	9.48 -0.01	56532724	21201108	54.870	56.611	55	57	55	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-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	3.5 U	Y
2,4-D	0.00	10.93 -0.02	0	931896	0.000	1.261	0U	3.0U	12 U	Y

Prep Amount:	30.437 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	68.80

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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000024.D Vial: 23
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 17:40:41 Operator: JTC
Sample : K2102811-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:25 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.020	9.483	56532724	21201108	54.870	56.611	
		Target Compounds							
1)	m	Dalapon	5.683	0.000	2362814	0	2.416	N.D.	#
3)	m	Dicamba	0.000	9.637f	0	293357	N.D.	0.244	#
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.	
5)	m	MCPA	11.570	10.263f	1609042	1034376	235.657	293.704	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	
7)	m	2,4-D	0.000	10.930	0	931896	N.D.	1.261	#
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	
9)	m	2,4,5-T	0.000	12.050	0	589685	N.D.	0.512	#
10)	m	2,4-DB	0.000	12.613f	0	1997197	N.D.	13.363	#
11)	m	Dinoseb	14.497	12.390f	28664071	356304	11.077	0.386	#

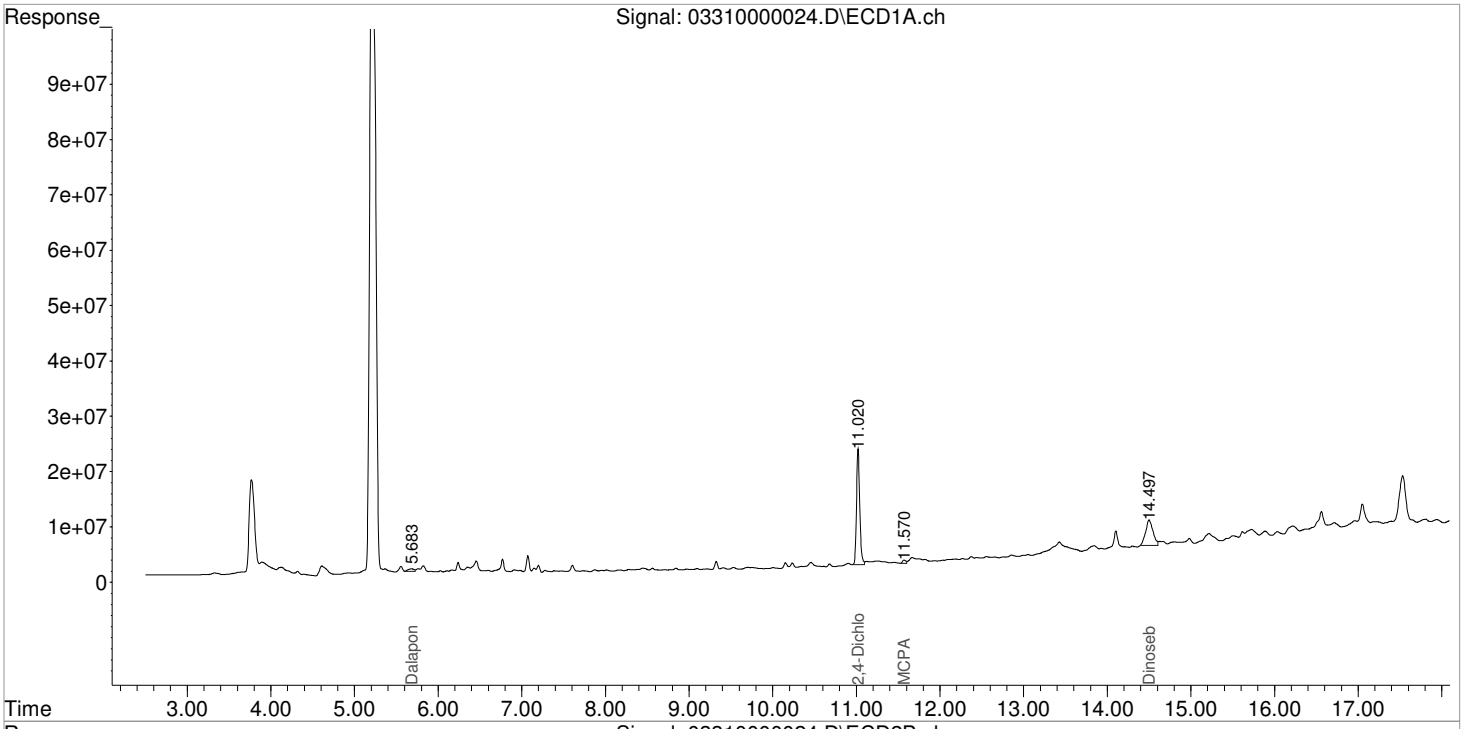
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

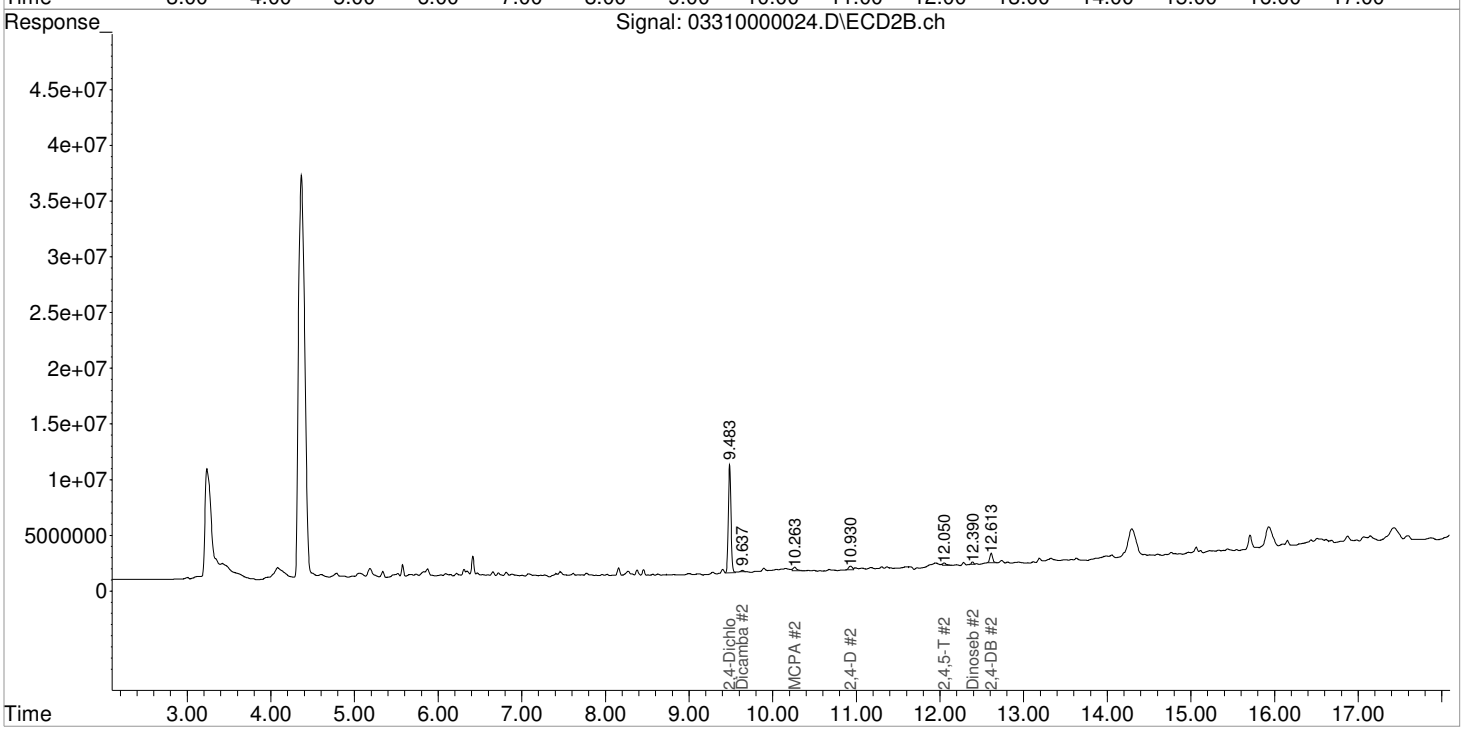
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000024.D Vial: 23
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 17:40:41 Operator: JTC
Sample : K2102811-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:25 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000008.D\
Lab ID: KQ2104449-04
RunType: MB
Matrix: Soil

Date Acquired: 3/31/21 11:11:46
Batch ID: 718306
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	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd 4w 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000008.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 11:11:46	**Vial:**	17
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2104449-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/11/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**	376223	**Report Group:**	KQ2104449
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	3/24/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		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	11.02	9.49	62274271	22464067	60.443	59.983	60	60	60	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	12.05 -0.01	0	203290	0.000	0.177	0U	0.27U	4.0 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94 -0.01	0	285390	0.000	0.386	0U	0.60U	7.7 U	Y
2,4-DB	0.00	12.62 +0.07	0	993619	0.000	6.648	0U	10J	5.4 U	Y
Dalapon	5.67 -0.02	4.88 +0.04	3789679	177669	3.875	0.374	6.0J	0.58U	5.5 U	Y
Dicamba	0.00	9.63 -0.04	0	168053	0.000	0.140	0U	0.22U	4.3 U	Y
Dichlorprop	0.00	10.74 -0.02	0	71998	0.000	0.207	0U	0.32U	3.4 U	Y
Dinoseb	14.49 +0.01	12.39 -0.05	676524	202583	0.261	0.220	0.41U	0.34U	2.7 U	Y
MCPA	11.57 +0.01	10.27 -0.04	2566334	670767	375.861	190.460	580J	300U	320 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	460 U	Y

Prep Amount:	32.1880 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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000008.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 11:11:46 Operator: JTC
Sample : KQ2104449-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:46:43 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.023	9.487	62274271	22464067	60.443	59.983	
		Target Compounds							
1)	m	Dalapon	5.670	4.883f	3789679	177669	3.875	0.374	#
3)	m	Dicamba	0.000	9.633f	0	168053	N.D.	0.140	#
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.	
5)	m	MCPA	11.570	10.267f	2566334	670767	375.861	190.460	#
6)	m	Dichloroprop	0.000	10.740	0	71998	N.D.	0.207	#
7)	m	2,4-D	0.000	10.937	0	285390	N.D.	0.386	#
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	
9)	m	2,4,5-T	0.000	12.053	0	203290	N.D.	0.177	#
10)	m	2,4-DB	0.000	12.617f	0	993619	N.D.	6.648	#
11)	m	Dinoseb	14.493	12.390f	676524	202583	0.261	0.220	

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

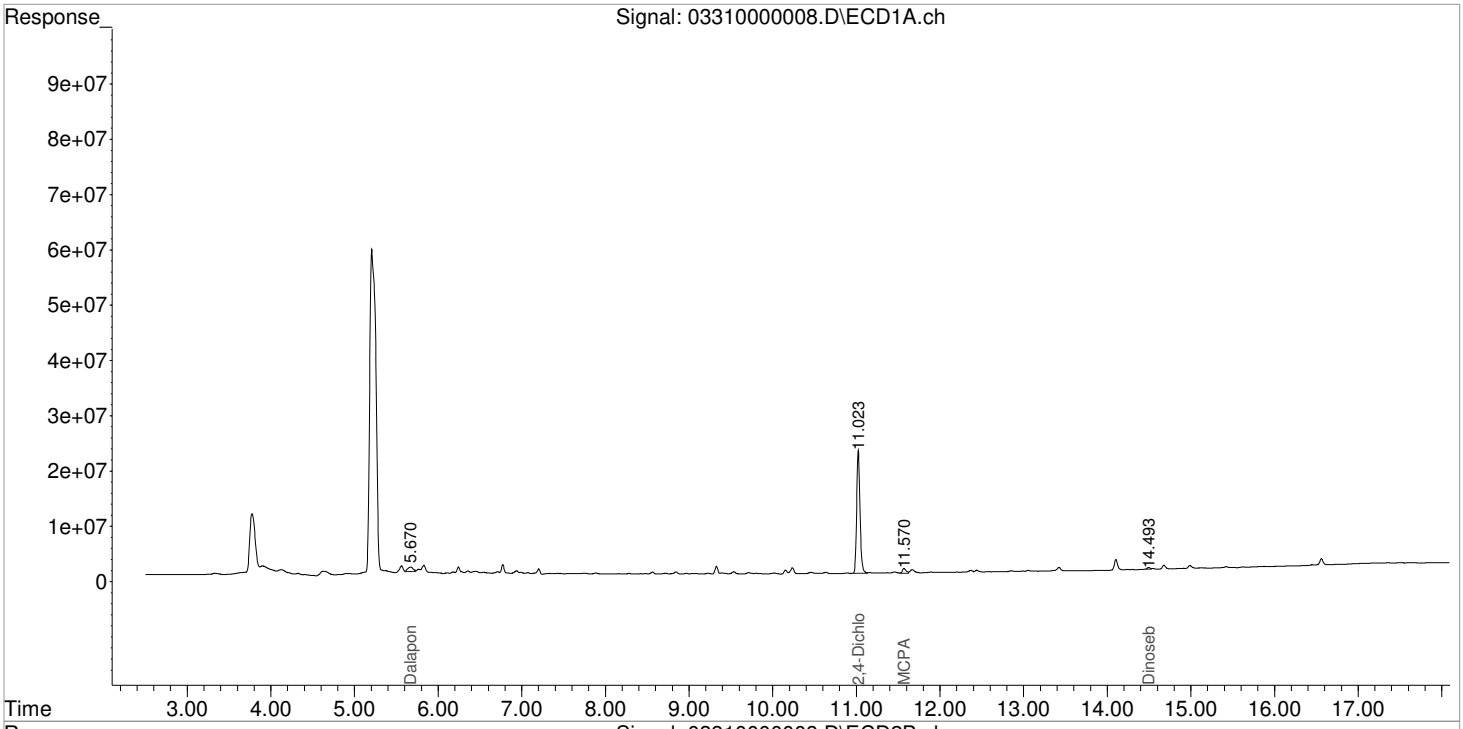
Quantitation Report (QT Reviewed)

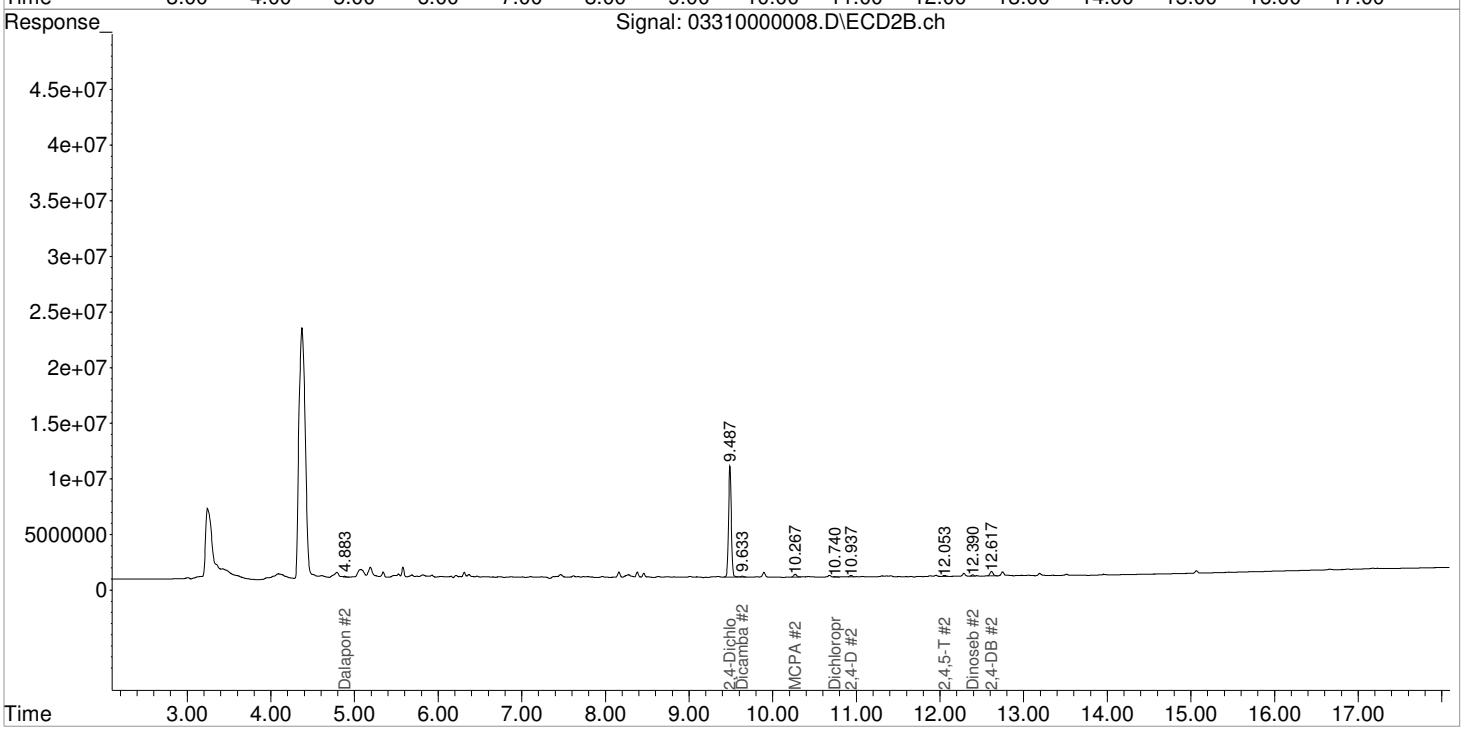
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000008.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 11:11:46 Operator: JTC
Sample : KQ2104449-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:46:43 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000009.D\
Lab ID: KQ2104449-03
RunType: LCS
Matrix: Soil

Date Acquired: 3/31/21 11:36:20
Batch ID: 718306
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	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd [illegible] 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000009.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 11:36:20	**Vial:**	16
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2104449-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/11/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**	376223	**Report Group:**	KQ2104449
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	3/24/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		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	11.02	9.49	65999694	26365973	64.059	70.402	64	70	64	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	13.73	12.06	228790534	86179482	67.850	74.853	113	125	**113**		Y
2,4,5-TP (Silvex)	13.35	11.51	284865628	101065324	66.398	69.089	111	115	**111**		Y
2,4-D	12.28	10.95	66559445	46147767	68.059	62.424	113	104	**104**		Y
2,4-DB	14.33	12.55	28306377	15302740	64.858	102.391	108	171	**108**	P	Y
Dalapon	5.69	4.84	63705341	32784556	65.136	69.077	109	115	**109**		Y
Dicamba	11.15	9.67	229124325	84526901	69.696	70.391	116	117	**116**		Y
Dichlorprop	11.98	10.76	60794182	22860311	63.897	65.671	106	109	**106**		Y
Dinoseb	14.48	12.44	109015564	44643561	42.126	48.375	70.2	80.6	**70.2**		Y
MCPA	11.56	10.31	55556318	23482169	8136.681	6667.604	13600	11100	**11100**		Y
MCPP	11.31	10.02	30653262	16273745	6736.312	7044.433	11200	11700	**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

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Quantitation Report (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000009.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 11:36:20 Operator: JTC
Sample : KQ2104449-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:46:46 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.023	9.487	65999694	26365973	64.059	70.402	
		Target Compounds							
1)	m	Dalapon	5.693	4.843	63705341	32784556	65.136	69.077	
3)	m	Dicamba	11.153	9.670	229.1E6	84526901	69.696	70.391	
4)	m	MCPP	11.307	10.020	30653262	16273745	6736.312	7044.433	
5)	m	MCPA	11.560	10.313	55556318	23482169	8136.681	6667.604	
6)	m	Dichloroprop	11.983	10.757	60794182	22860311	63.897	65.671	
7)	m	2,4-D	12.283	10.950	66559445	46147767	68.059	62.424	
8)	m	2,4,5-TP ...	13.350	11.513	284.9E6	101.1E6	66.398	69.089	
9)	m	2,4,5-T	13.730	12.057	228.8E6	86179482	67.850	74.853	
10)	m	2,4-DB	14.330	12.550	28306377	15302740	64.858	102.391	#
11)	m	Dinoseb	14.480	12.443	109.0E6	44643561	42.126	48.375	

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

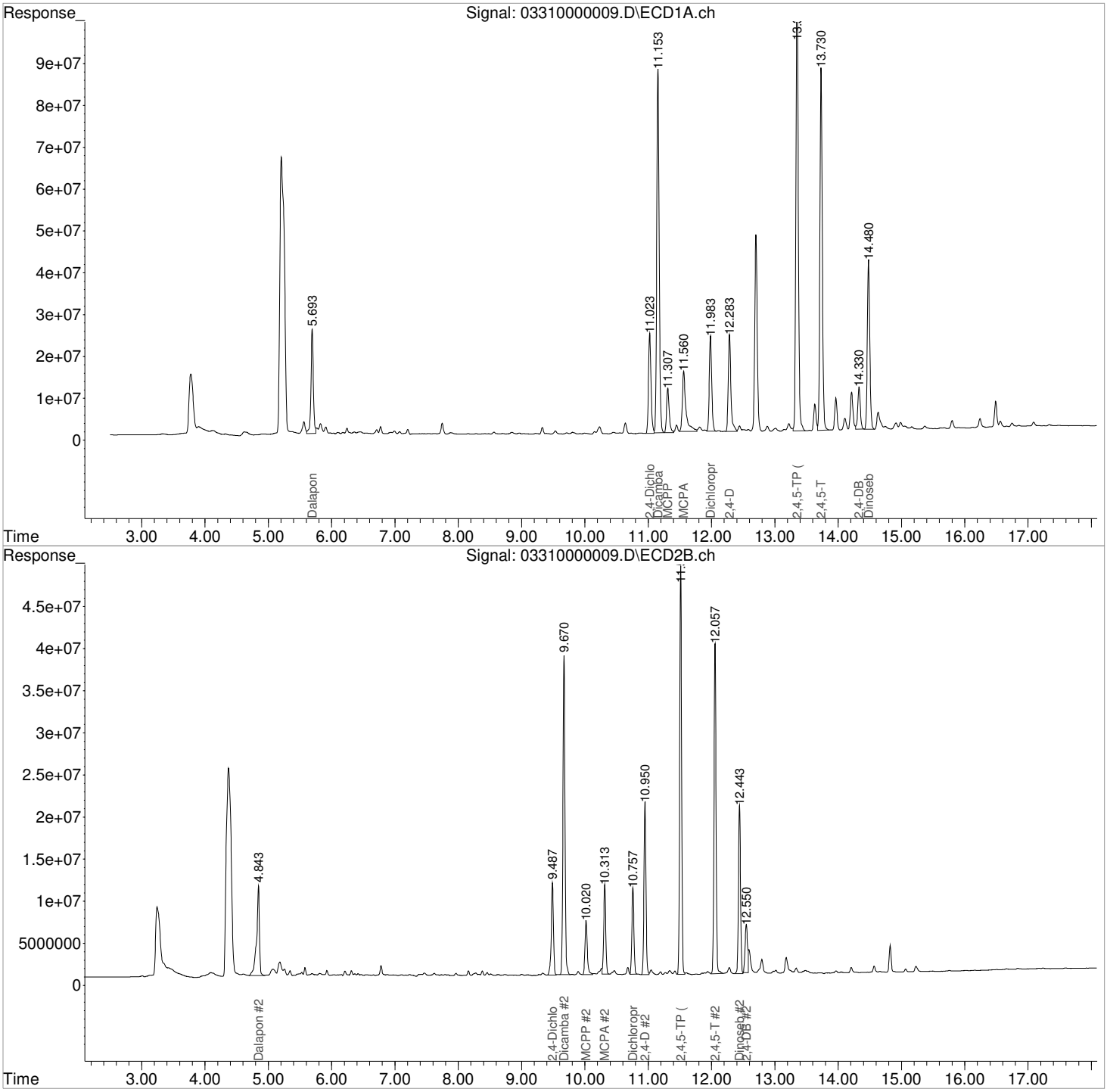
Quantitation Report (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000009.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 11:36:20 Operator: JTC
Sample : KQ2104449-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:46:46 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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



1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000010.D\
Lab ID: KQ2104449-01
RunType: MS
Matrix: Soil

Date Acquired: 3/31/21 12:00:24
Batch ID: 718306
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	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd 4w 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000010.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 12:00:24	**Vial:**	10
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ2104449-01	**Raw Units:**	ppb

Bottle ID:	K2102811-002.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/11/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**	376223	**Report Group:**	KQ2104449
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	3/24/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		Report List ID:	18845

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	11.02	9.49	67387137	24166012	65.406	64.528	65	65	65	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-TP (Silvex)	13.35	11.51	284119631	102476615	66.224	70.054	132	140	**132**	Y
2,4-D	12.28	10.95	63306205	47159077	64.733	63.792	129	127	**127**	Y

Prep Amount:	30.250 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	82.80

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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000010.D Vial: 11
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 12:00:24 Operator: JTC
Sample : K2102811-002 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:46:49 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.023	9.487	67387137	24166012	65.406	64.528	
		Target Compounds							
1)	m	Dalapon	5.693	4.847	64610022	35635240	66.061	75.084	
3)	m	Dicamba	11.153	9.670	234.0E6	85357591	71.181	71.083	
4)	m	MCPP	11.307	10.020	30028755	16484877	6599.071	7147.544	
5)	m	MCPA	11.560	10.313	46208923	23060685	6767.678	6547.927	
6)	m	Dichloroprop	11.983	10.757	60969475	23791645	64.081	68.346	
7)	m	2,4-D	12.283	10.950	63306205	47159077	64.733	63.792	
8)	m	2,4,5-TP ...	13.350	11.513	284.1E6	102.5E6	66.224	70.054	
9)	m	2,4,5-T	13.730	12.057	229.1E6	88934156	67.946	77.246	
10)	m	2,4-DB	14.330	12.550	26799161	15316537	61.404	102.483	#
11)	m	Dinoseb	14.480	12.443	96591372	40266212	37.325	43.632	

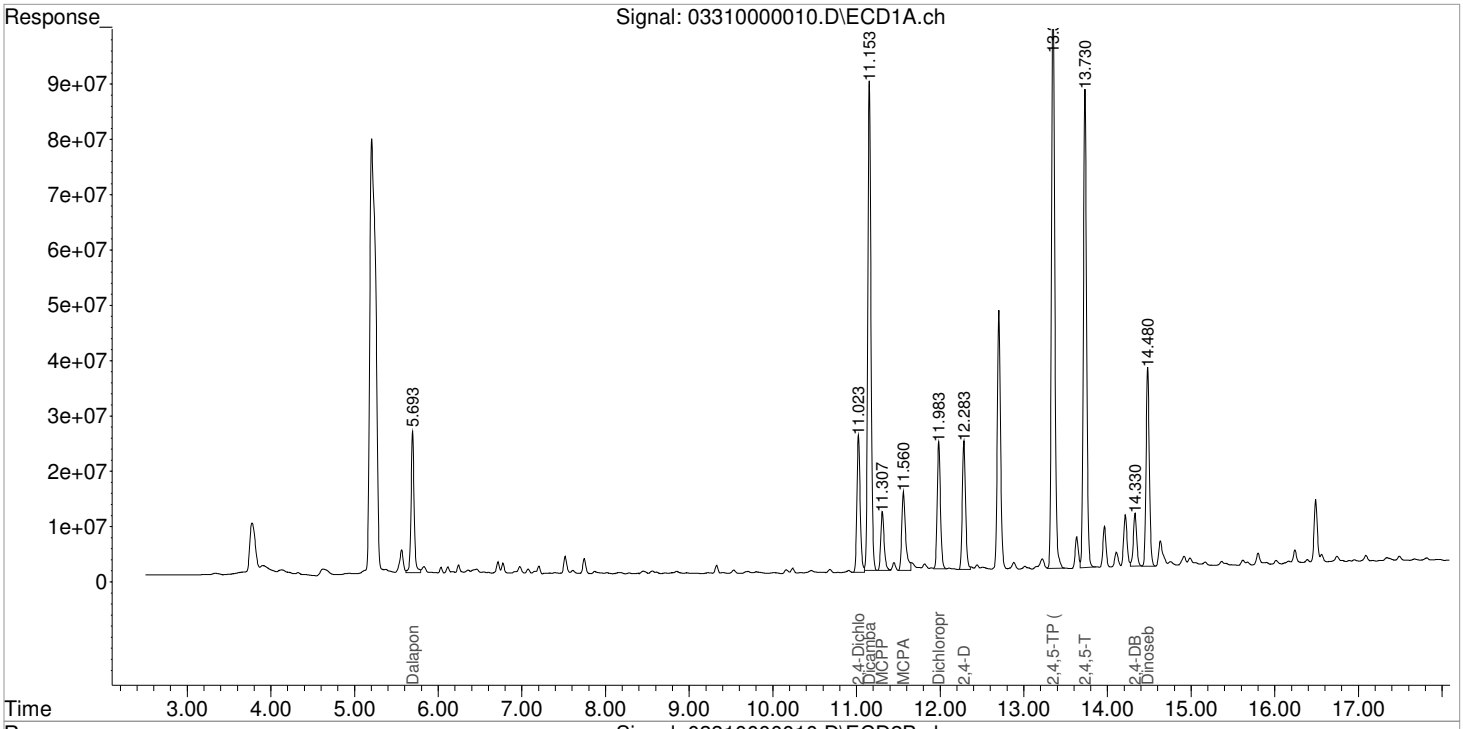
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

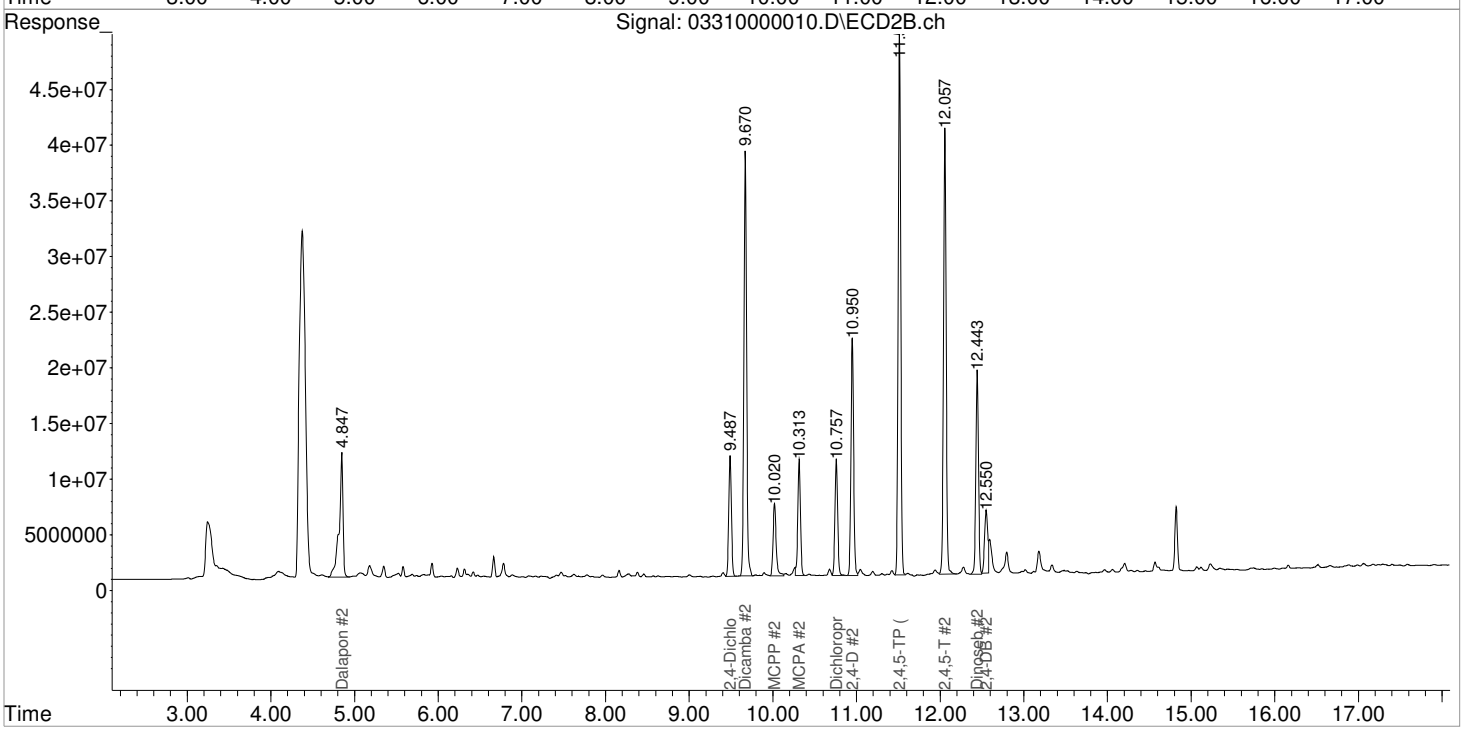
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000010.D Vial: 11
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 12:00:24 Operator: JTC
Sample : K2102811-002 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:46:49 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000011.D\
Lab ID: KQ2104449-02
RunType: DMS
Matrix: Soil

Date Acquired: 3/31/21 12:24:26
Batch ID: 718306
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	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd 4w 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000011.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 12:24:26	**Vial:**	11
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ2104449-02	**Raw Units:**	ppb

Bottle ID:	K2102811-002.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/11/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**	376223	**Report Group:**	KQ2104449
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	3/24/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		Report List ID:	18845

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	11.02	9.49	65366434	23478702	63.444	62.692	63	63	63	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-TP (Silvex)	13.35	11.51	278171412	100937183	64.837	69.001	128	137	**128**	Y
2,4-D	12.28	10.95	62301845	46327636	63.706	62.667	126	124	**124**	Y

Prep Amount:	30.511 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	82.80

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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000011.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 12:24:26 Operator: JTC
Sample : K2102811-002 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:46:52 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.023	9.490	65366434	23478702	63.444	62.692	
		Target Compounds							
1)	m	Dalapon	5.693	4.847	59176326	32477234	60.506	68.430	
3)	m	Dicamba	11.153	9.670	228.2E6	83548539	69.417	69.576	
4)	m	MCPP	11.310	10.020	29338002	16226819	6447.272	7021.523	
5)	m	MCPA	11.560	10.313	45090350	22781994	6603.853	6468.794	
6)	m	Dichloroprop	11.983	10.760	59513073	23287619	62.550	66.898	
7)	m	2,4-D	12.283	10.950	62301845	46327636	63.706	62.667	
8)	m	2,4,5-TP ...	13.350	11.513	278.2E6	100.9E6	64.837	69.001	
9)	m	2,4,5-T	13.730	12.057	224.3E6	86432792	66.505	75.073	
10)	m	2,4-DB	14.330	12.550	27257347	15126431	62.454	101.211	#
11)	m	Dinoseb	14.480	12.443	102.8E6	42931549	39.715	46.520	

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

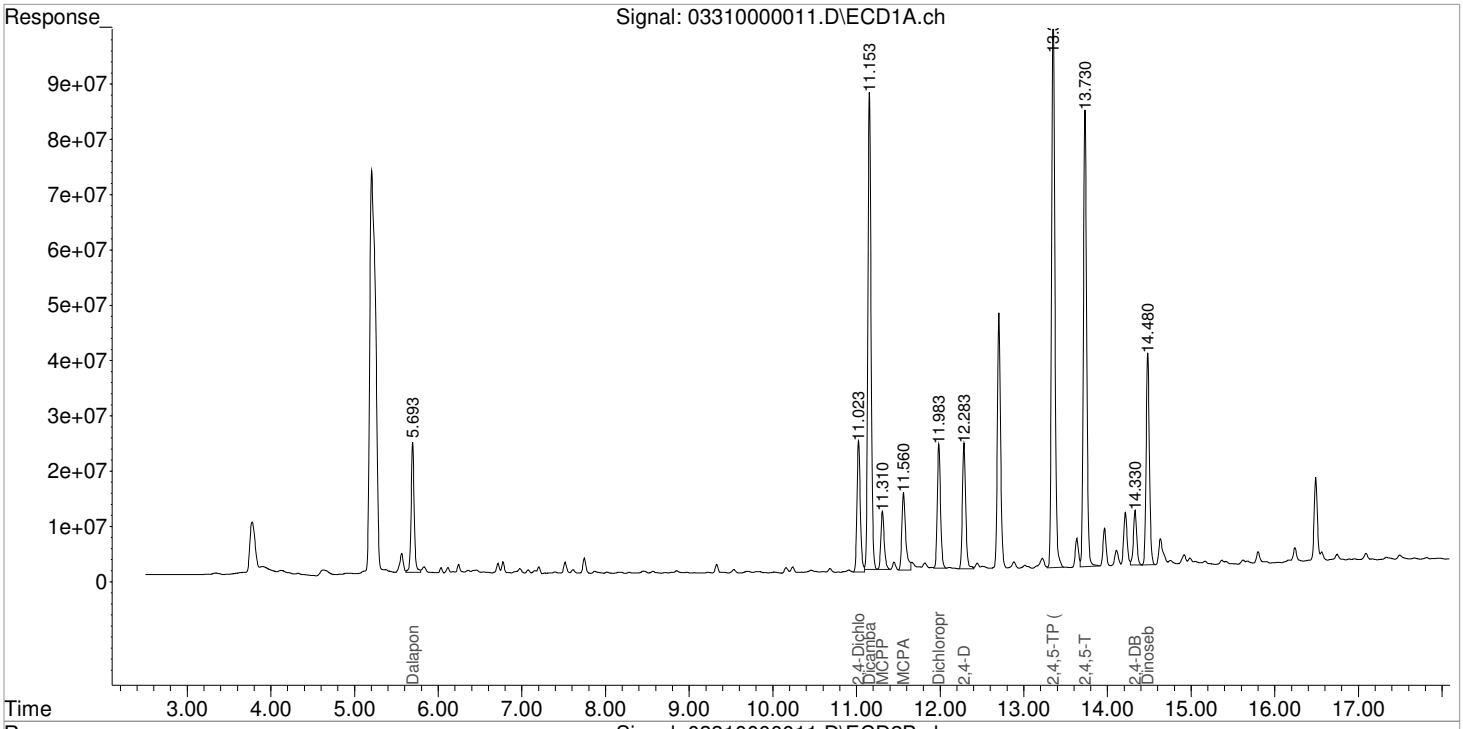
Quantitation Report (QT Reviewed)

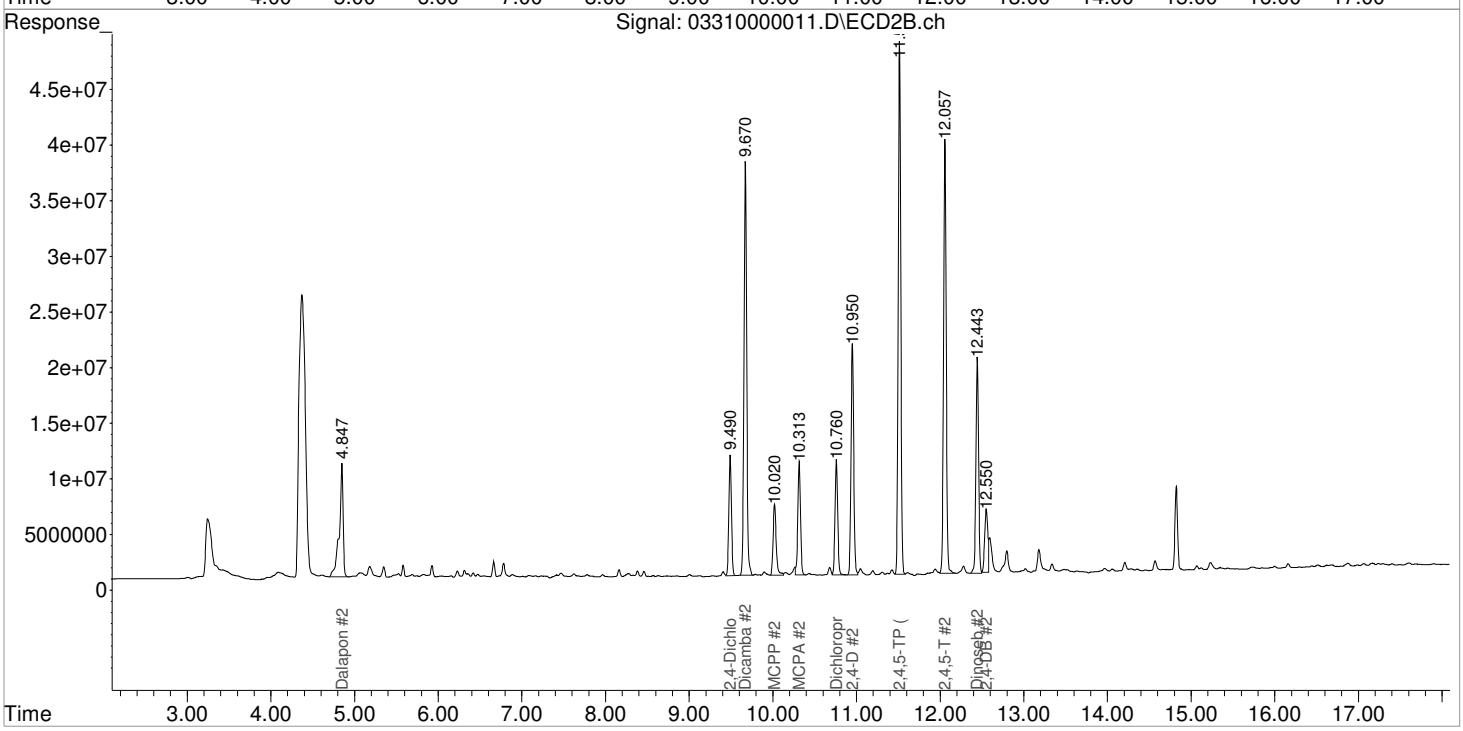
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000011.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 12:24:26 Operator: JTC
Sample : K2102811-002 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:46:52 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000007.D\
Lab ID: KQ2105113-02
RunType: CCB
Matrix: Soil

Date Acquired: 3/31/21 10:47:41
Batch ID: 718306
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	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd AW 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000007.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 10:47:41	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2105113-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/10/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**		**Report Group:**	KQ2105113
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		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	11.04 +0.02	0.00	173097	0	0.168	0.000				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	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94 -0.01	0	122155	0.000	0.165	0U	0.28U	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	4.89 +0.05	0	24230	0.000	0.051	0U	0.085U	5.5 U	Y
Dicamba	11.16 +0.01	0.00	58175	0	0.018	0.000	0.030U	0U	4.3 U	Y
Dichlorprop	0.00	0.00	0	0	0.000	0.000	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	10.27 -0.04	0	707391	0.000	200.859	0U	330J	320 U	Y
MCPP	11.33 +0.02	0.00	85131	0	18.708	0.000	31U	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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000007.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 10:47:41 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 31 11:23:48 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.040	0.000	173097	0	0.168	N.D.	#
		Target Compounds							
1)	m	Dalapon	0.000	4.887f	0	24230	N.D.	0.051	#
3)	m	Dicamba	11.157	0.000	58175	0	0.018	N.D.	#
4)	m	MCPP	11.333	0.000	85131	0	18.708	N.D.	#
5)	m	MCPA	0.000	10.267f	0	707391	N.D.	200.859	#
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	
7)	m	2,4-D	0.000	10.937	0	122155	N.D.	0.165	#
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.

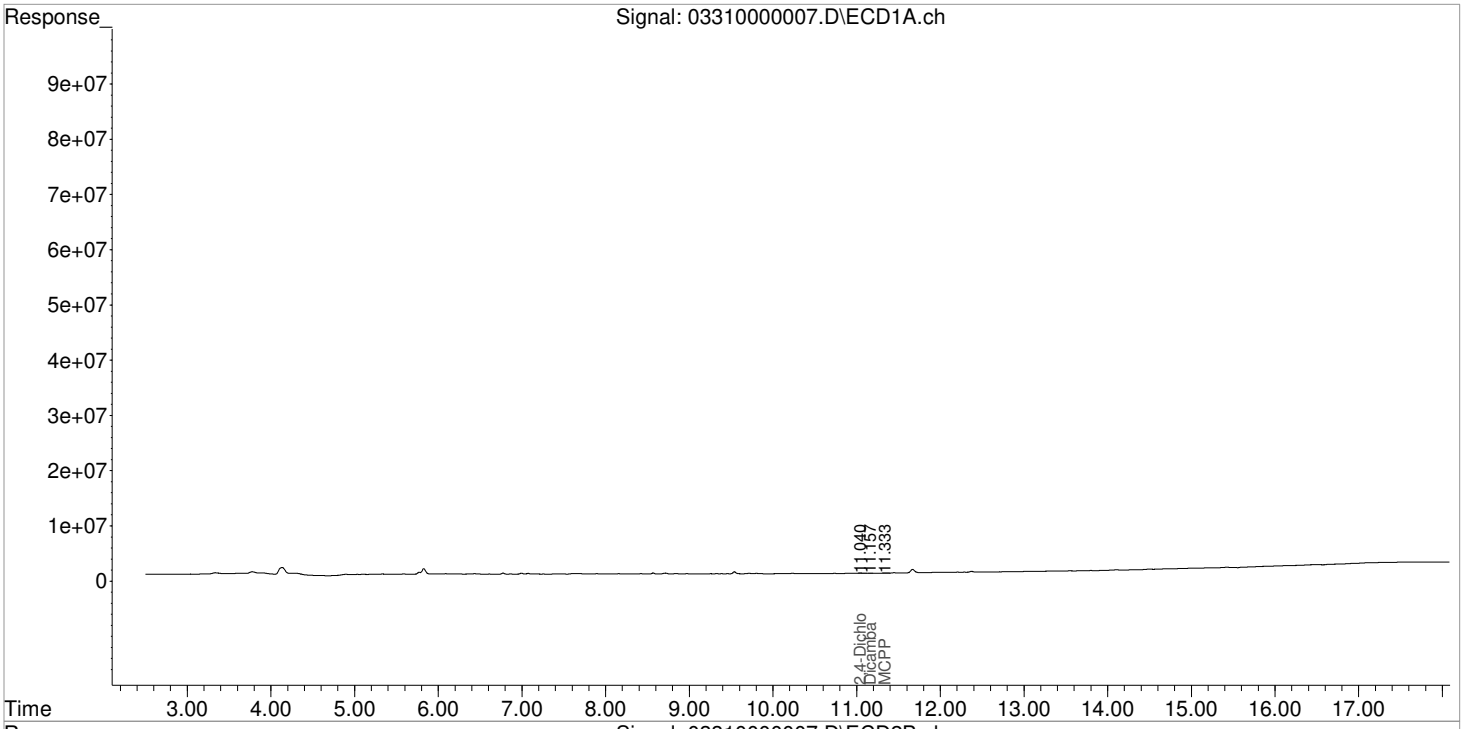
Quantitation Report (QT Reviewed)

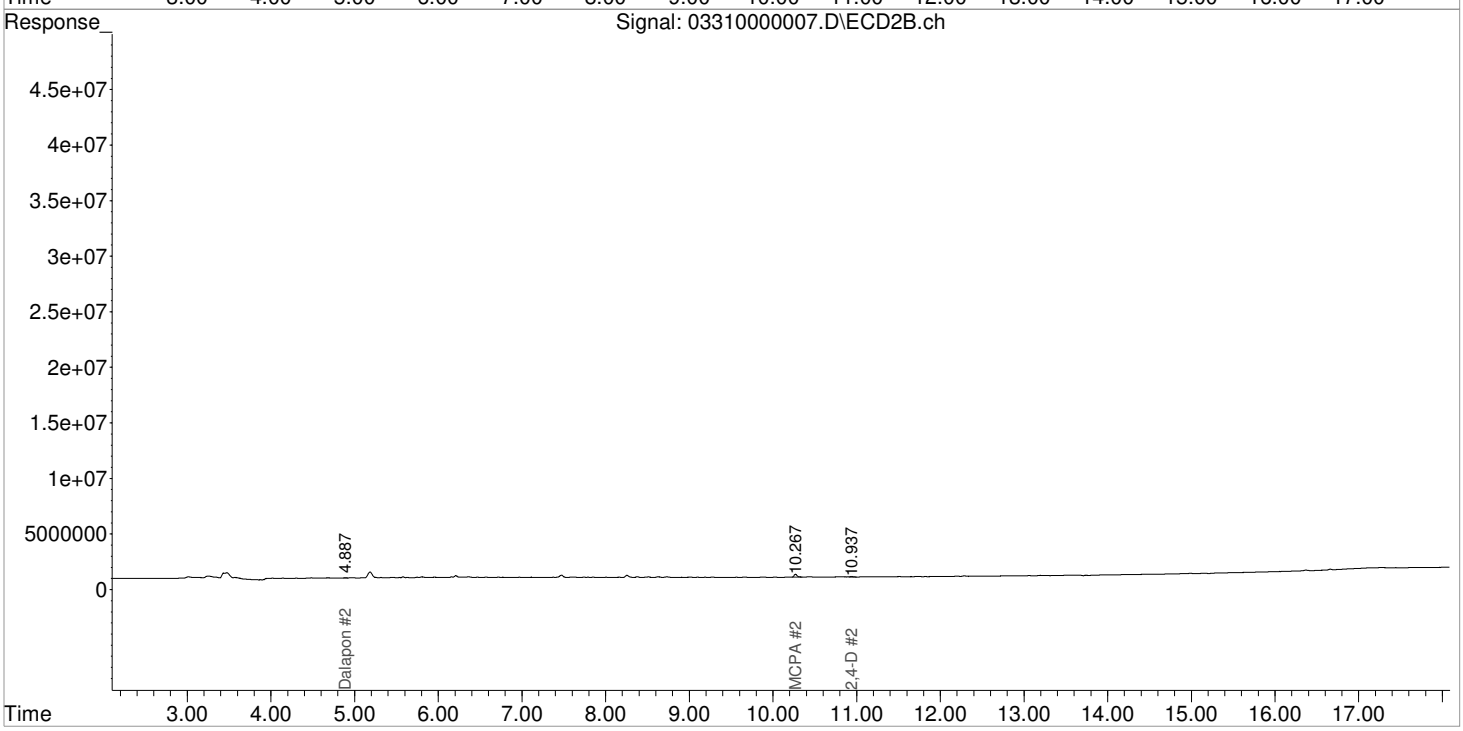
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000007.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 10:47:41 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 31 11:23:48 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000018.D\
Lab ID: KQ2105113-04
RunType: CCB
Matrix: Soil

Date Acquired: 3/31/21 15:14:57
Batch ID: 718306
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	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd 4w 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000018.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 15:14:57	**Vial:**	4
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2105113-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/10/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**		**Report Group:**	KQ2105113
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		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	0.000				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	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94 -0.01	0	105036	0.000	0.142	0U	0.24U	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	0.000	0U	0U	4.3 U	Y
Dichlorprop	0.00	0.00	0	0	0.000	0.000	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	10.27 -0.05	0	626170	0.000	177.797	0U	300U	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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000018.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 15:14:57 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:28 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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.	N.D.
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D.
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.
5)	m	MCPA	0.000	10.267f	0	626170	N.D.	177.797 #
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7)	m	2,4-D	0.000	10.937	0	105036	N.D.	0.142 #
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.

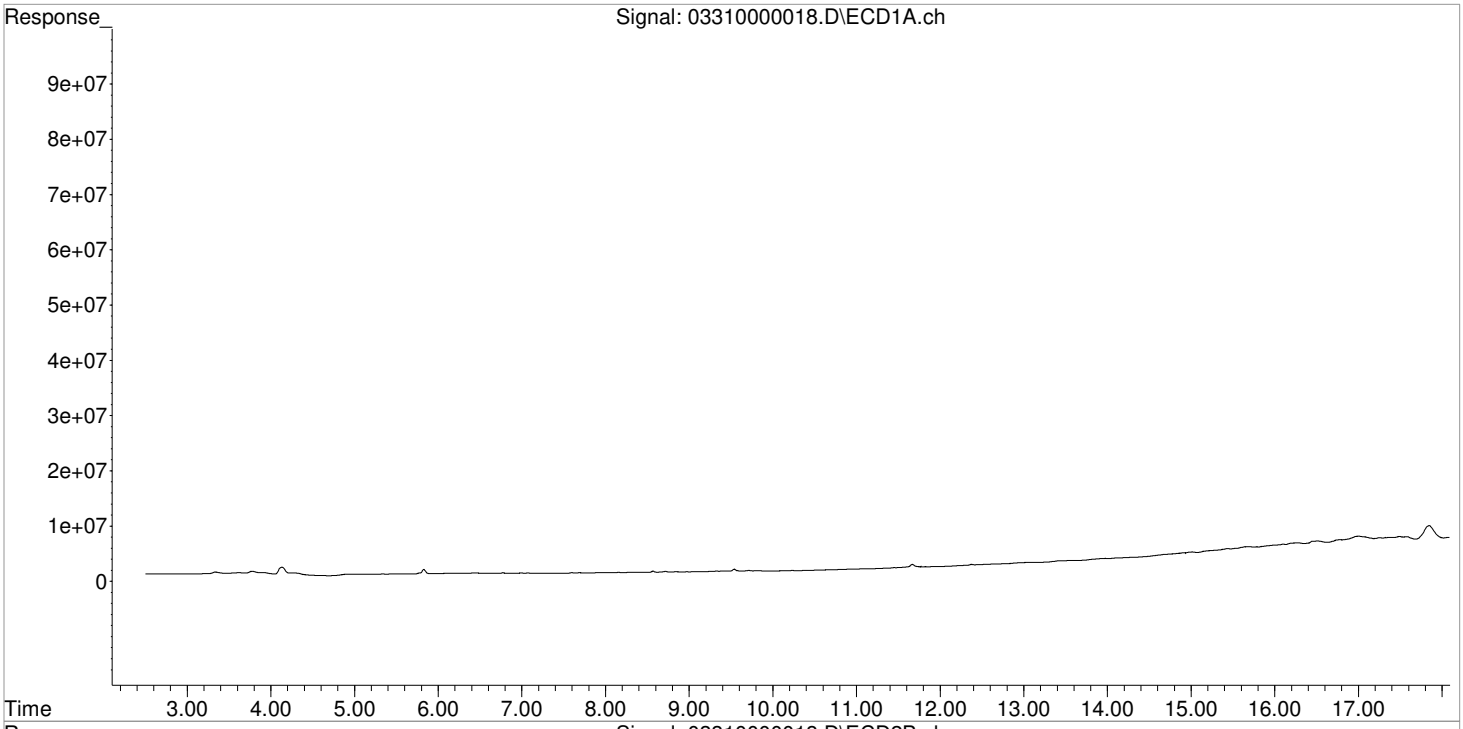
Quantitation Report (QT Reviewed)

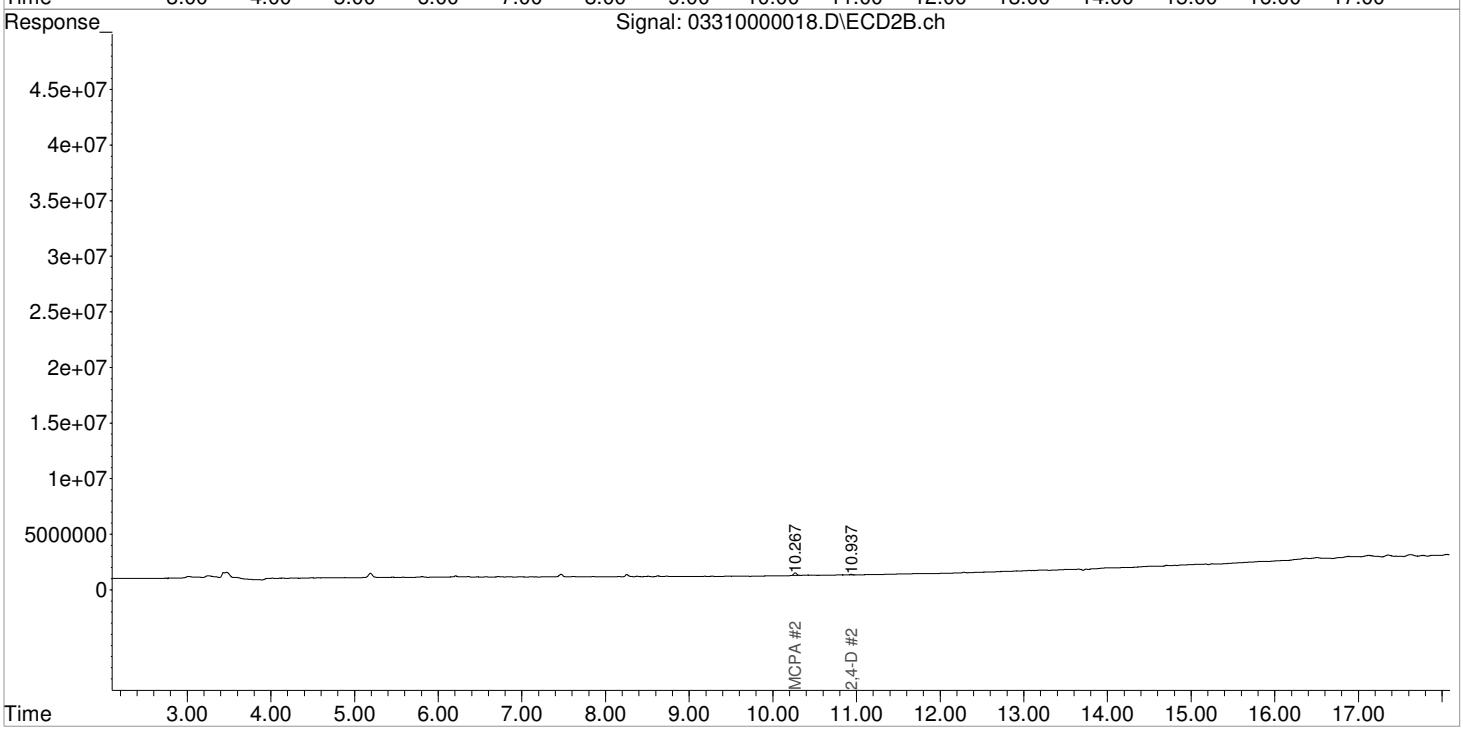
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000018.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 15:14:57 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:28 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000026.D\
Lab ID: KQ2104596-02
RunType: CCB
Matrix: Soil

Date Acquired: 3/31/21 18:29:21
Batch ID: 717383
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	

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd 4w 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000026.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 18:29:21	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2105094-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/9/21	**Receive Date:**	3/11/21

Analysis Lot:	718273	**Prep Lot:**		**Report Group:**	KQ2105094
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		Report List ID:	11736

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?
DCAA	11.04 +0.02	0.00	163931	0	0.159	0.000				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-TP	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.93 -0.02	0	238977	0.000	0.323	0U	0.54U	7.7 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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1st JTC 04/01/21
2nd [illegible] 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000026.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 18:29:21	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2104596-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	2/15/21	**Receive Date:**	2/15/21

Analysis Lot:	717383	**Prep Lot:**		**Report Group:**	KQ2104596
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		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	11.04 +0.02	0.00	163931	0	0.159	0.000				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	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.93 -0.02	0	238977	0.000	0.323	0U	0.54U	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	4.88 +0.04	0	21182	0.000	0.045	0U	0.075U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0U	0U	4.3 U	Y
Dichlorprop	0.00	10.77 +0.02	0	38509	0.000	0.111	0U	0.19U	3.4 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	2.7 U	Y
MCPA	0.00	10.27 -0.04	0	500518	0.000	142.119	0U	240U	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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000026.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 18:29:21 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:33 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.040	0.000	163931	0	0.159	N.D.	#
		Target Compounds							
1)	m	Dalapon	0.000	4.883f	0	21182	N.D.	0.045	#
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D.	
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.	
5)	m	MCPA	0.000	10.267f	0	500518	N.D.	142.119	#
6)	m	Dichloroprop	0.000	10.767	0	38509	N.D.	0.111	#
7)	m	2,4-D	0.000	10.933	0	238977	N.D.	0.323	#
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.

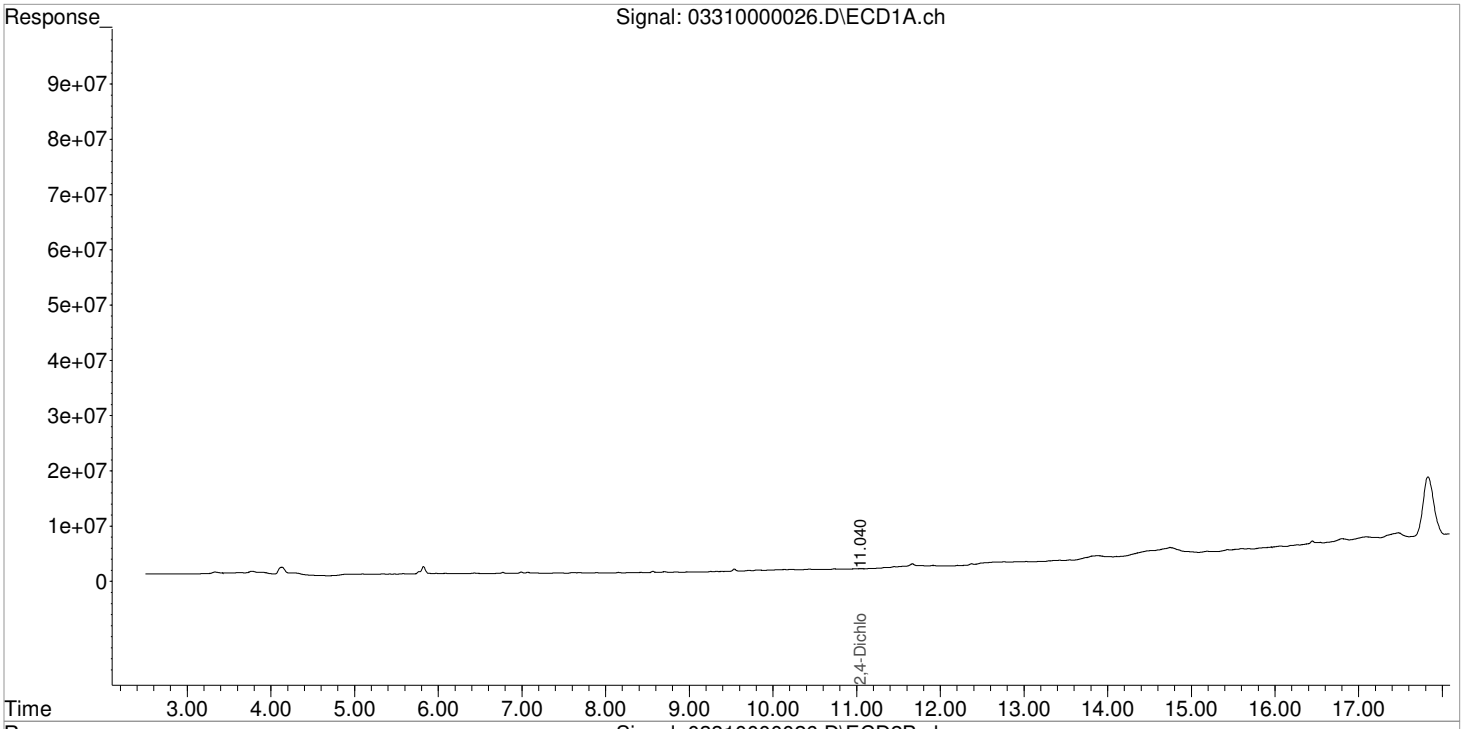
Quantitation Report (QT Reviewed)

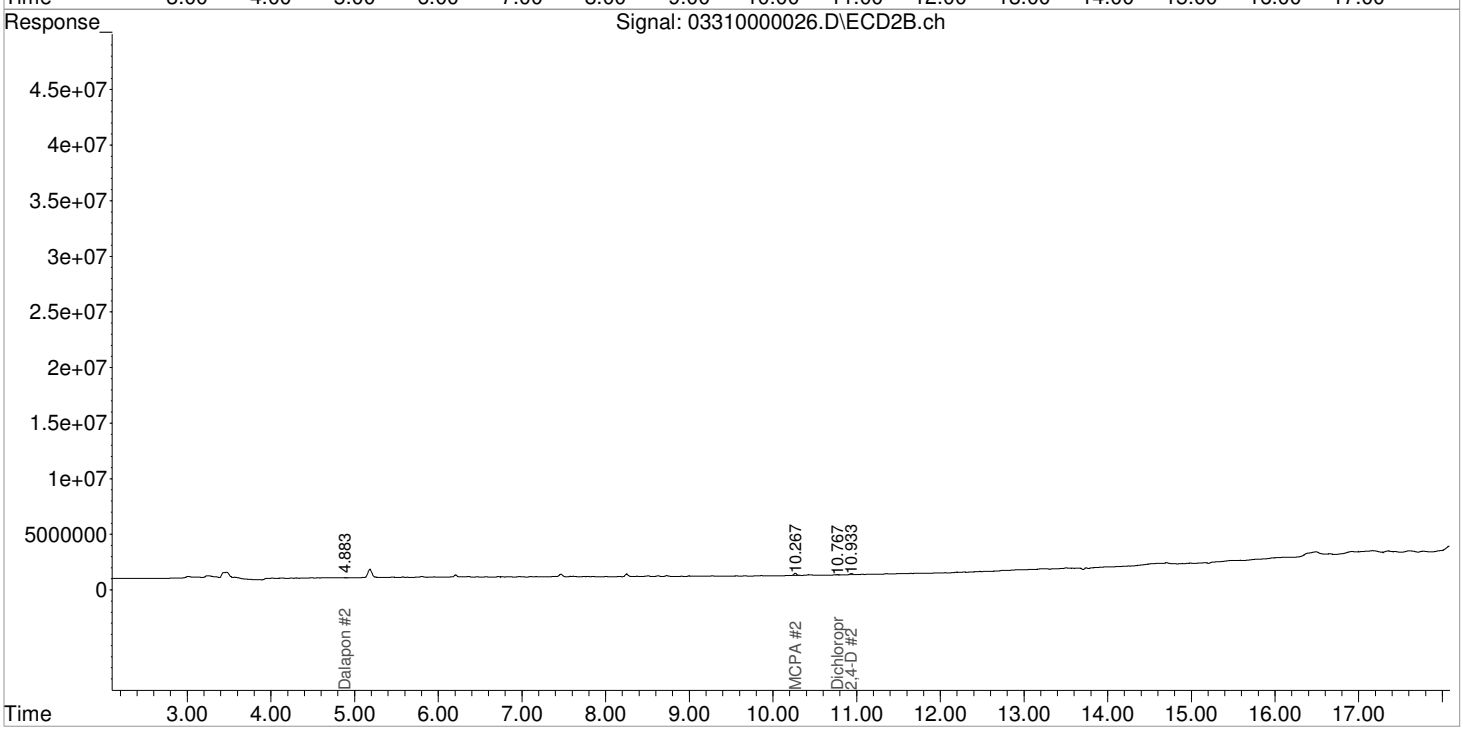
1st JTC 04/01/21
2nd 4W 04/01/21

Data File : J:\GC34\DATA\033121\03310000026.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 18:29:21 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:33 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000006.D\
Lab ID: KQ2105113-01
RunType: CCV
Matrix: Soil

Date Acquired: 3/31/21 10:23:14
Batch ID: 718306
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd [illegible] 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000006.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 10:23:14	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2105113-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/10/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**		**Report Group:**	KQ2105113
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		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	11.02	9.49	87477816	31183888	84.906	83.267			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	13.73	12.06	289644730	100002343	85.897	86.859	85.9	86.9	Y
2,4,5-TP (Silvex)	13.35	11.51	377214148	134011926	87.922	91.612	87.9	91.6	Y
2,4-D	12.28	10.95	82835385	65291741	84.702	88.319	84.7	88.3	Y
2,4-DB	14.33	12.55	36982007	12750785	84.736	85.316	84.7	85.3	Y
Dalapon	5.69	4.84	86521662	42022050	88.465	88.541	88.5	88.5	Y
Dicamba	11.15	9.67	302906675	108421305	92.140	90.290	92.1	90.3	Y
Dichlorprop	11.98	10.76	84118496	29182003	88.412	83.831	88.4	83.8	Y
Dinoseb	14.48	12.44	230799003	85879815	89.187	93.057	89.2	93.1	Y
MCPA	11.56	10.31	57069479	30653075	8358.296	8703.735	8360	8700	Y
MCPP	11.31	10.02	38450134	20521560	8449.740	9129.017	8450	9130	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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000006.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 10:23:14 Operator: JTC
Sample : PENTA02-25J 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 31 11:24:08 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.023	9.487	87477816	31183888	84.906	83.267
		Target Compounds						
1)	m	Dalapon	5.693	4.843	86521662	42022050	88.465	88.541
3)	m	Dicamba	11.153	9.670	302.9E6	108.4E6	92.140	90.290
4)	m	MCPP	11.307	10.020	38450134	20521560	8449.740	9129.017
5)	m	MCPA	11.560	10.313	57069479	30653075	8358.296	8703.735
6)	m	Dichloroprop	11.983	10.757	84118496	29182003	88.412	83.831
7)	m	2,4-D	12.283	10.947	82835385	65291741	84.702	88.319
8)	m	2,4,5-TP ...	13.350	11.513	377.2E6	134.0E6	87.922	91.612
9)	m	2,4,5-T	13.730	12.057	289.6E6	100.0E6	85.897	86.859
10)	m	2,4-DB	14.330	12.553	36982007	12750785	84.736	85.316
11)	m	Dinoseb	14.480	12.443	230.8E6	85879815	89.187	93.057

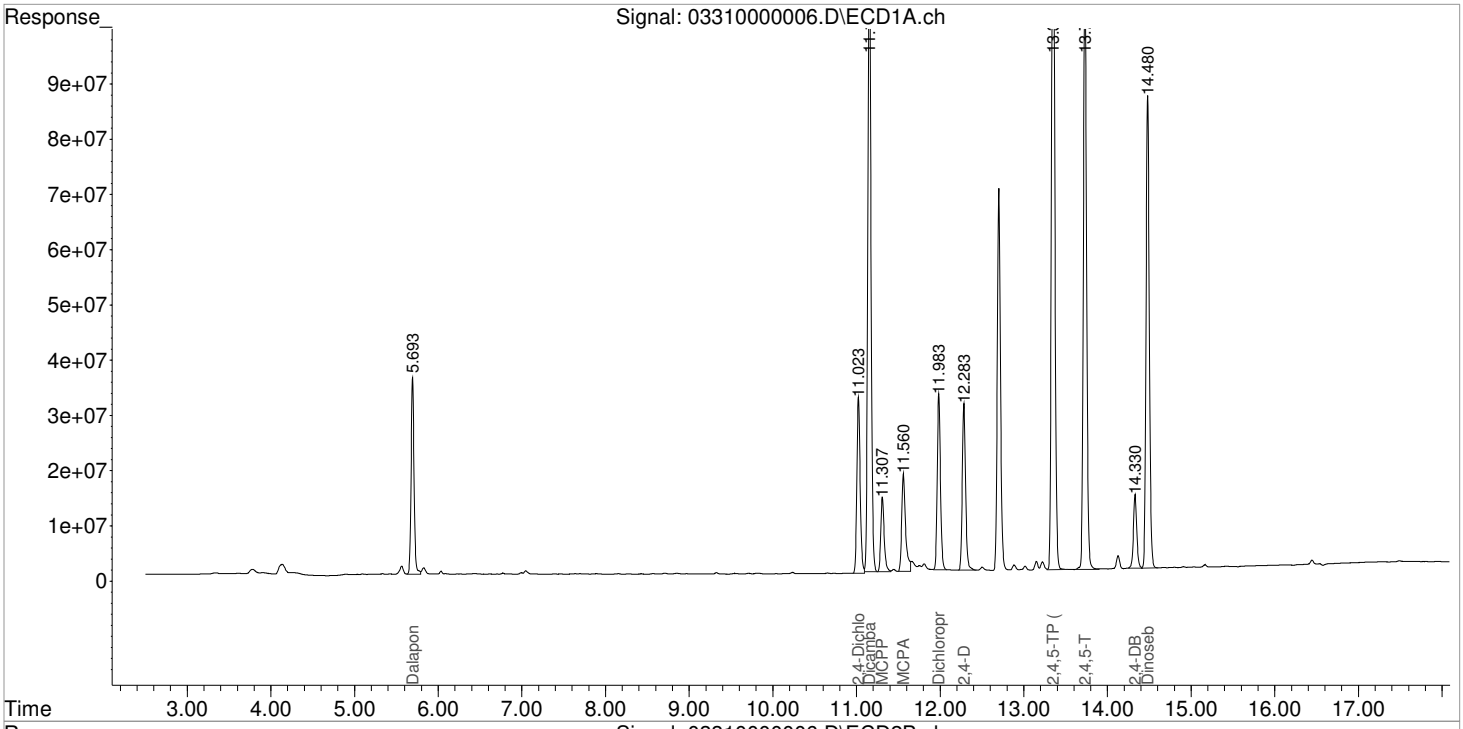
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

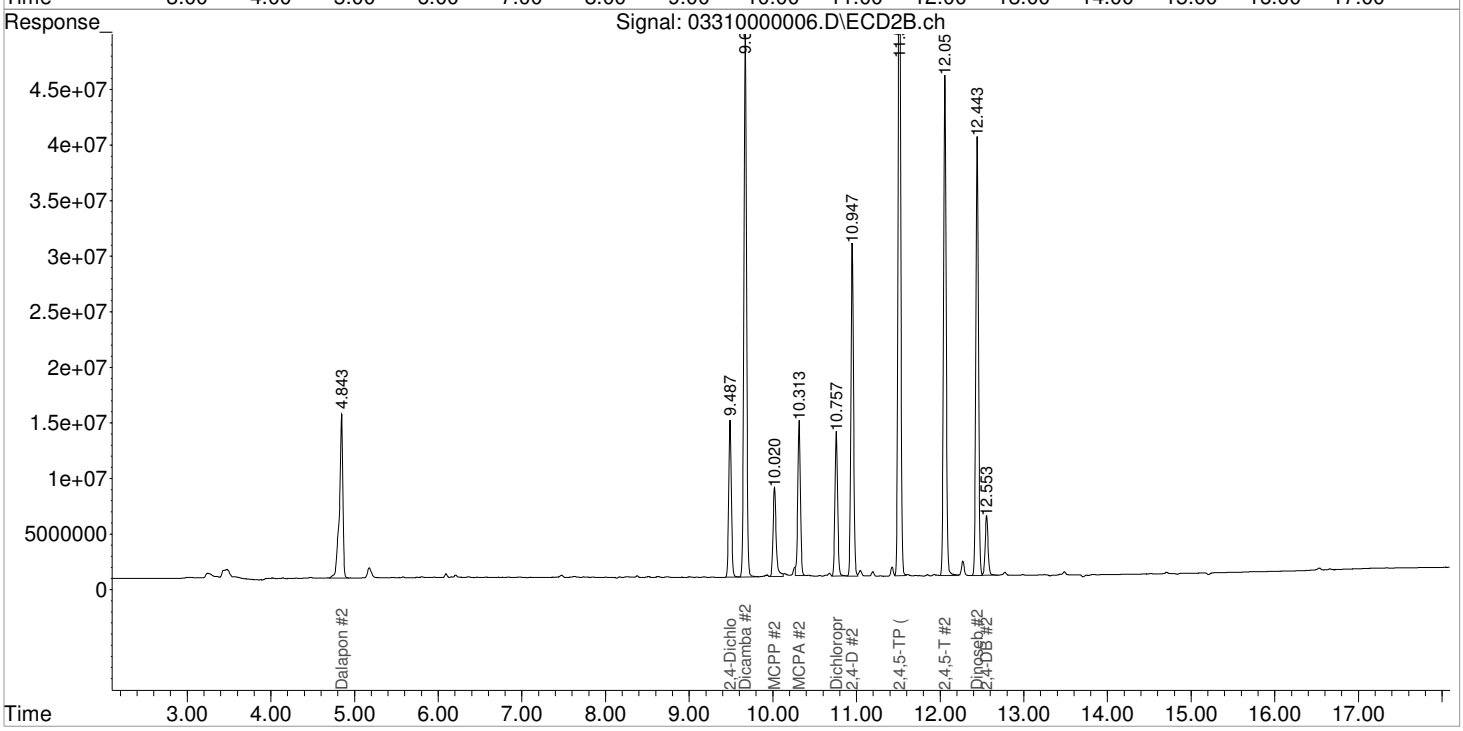
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000006.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 10:23:14 Operator: JTC
Sample : PENTA02-25J 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 31 11:24:08 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000017.D\
Lab ID: KQ2105113-03
RunType: CCV
Matrix: Soil

Date Acquired: 3/31/21 14:50:28
Batch ID: 718306
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd [illegible] 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000017.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 14:50:28	**Vial:**	3
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2105113-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/10/21	**Receive Date:**	3/19/21

Analysis Lot:	718306	**Prep Lot:**		**Report Group:**	KQ2105113
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		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	11.02	9.49	85442860	32236378	82.930	86.077			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	13.73	12.06	301055571	111926001	89.281	97.216	89.3	97.2	Y
2,4,5-TP (Silvex)	13.35	11.51	382193854	143979526	89.083	98.425	89.1	98.4	Y
2,4-D	12.28	10.95	82195645	69117183	84.048	93.494	84.0	93.5	Y
2,4-DB	14.33	12.56	36749702	13574234	84.204	90.826	84.2	90.8	Y
Dalapon	5.70	4.85	87861077	43731416	89.835	92.142	89.8	92.1	Y
Dicamba	11.16	9.67	306569846	111091960	93.254	92.514	93.3	92.5	Y
Dichlorprop	11.98	10.76	80915914	31623124	85.046	90.844	85.0	90.8	Y
Dinoseb	14.48	12.44	227861174	92501948	88.052	100.233	88.1	100	Y
MCPA	11.56	10.32	53744499	31890282	7871.325	9055.032	7870	9060	Y
MCPP	11.31	10.02	40808511	20370850	8968.013	9054.692	8970	9050	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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000017.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 14:50:28 Operator: JTC
Sample : PENTA02-25J 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:25 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.023	9.490	85442860	32236378	82.930	86.077
		Target Compounds						
1)	m	Dalapon	5.697	4.850	87861077	43731416	89.835	92.142
3)	m	Dicamba	11.157	9.673	306.6E6	111.1E6	93.254	92.514
4)	m	MCPP	11.310	10.020	40808511	20370850	8968.013	9054.692
5)	m	MCPA	11.560	10.317	53744499	31890282	7871.325	9055.032
6)	m	Dichloroprop	11.983	10.760	80915914	31623124	85.046	90.844
7)	m	2,4-D	12.283	10.950	82195645	69117183	84.048	93.494
8)	m	2,4,5-TP ...	13.350	11.513	382.2E6	144.0E6	89.083	98.425
9)	m	2,4,5-T	13.730	12.057	301.1E6	111.9E6	89.281	97.216
10)	m	2,4-DB	14.330	12.557	36749702	13574234	84.204	90.826
11)	m	Dinoseb	14.480	12.443	227.9E6	92501948	88.052	100.233

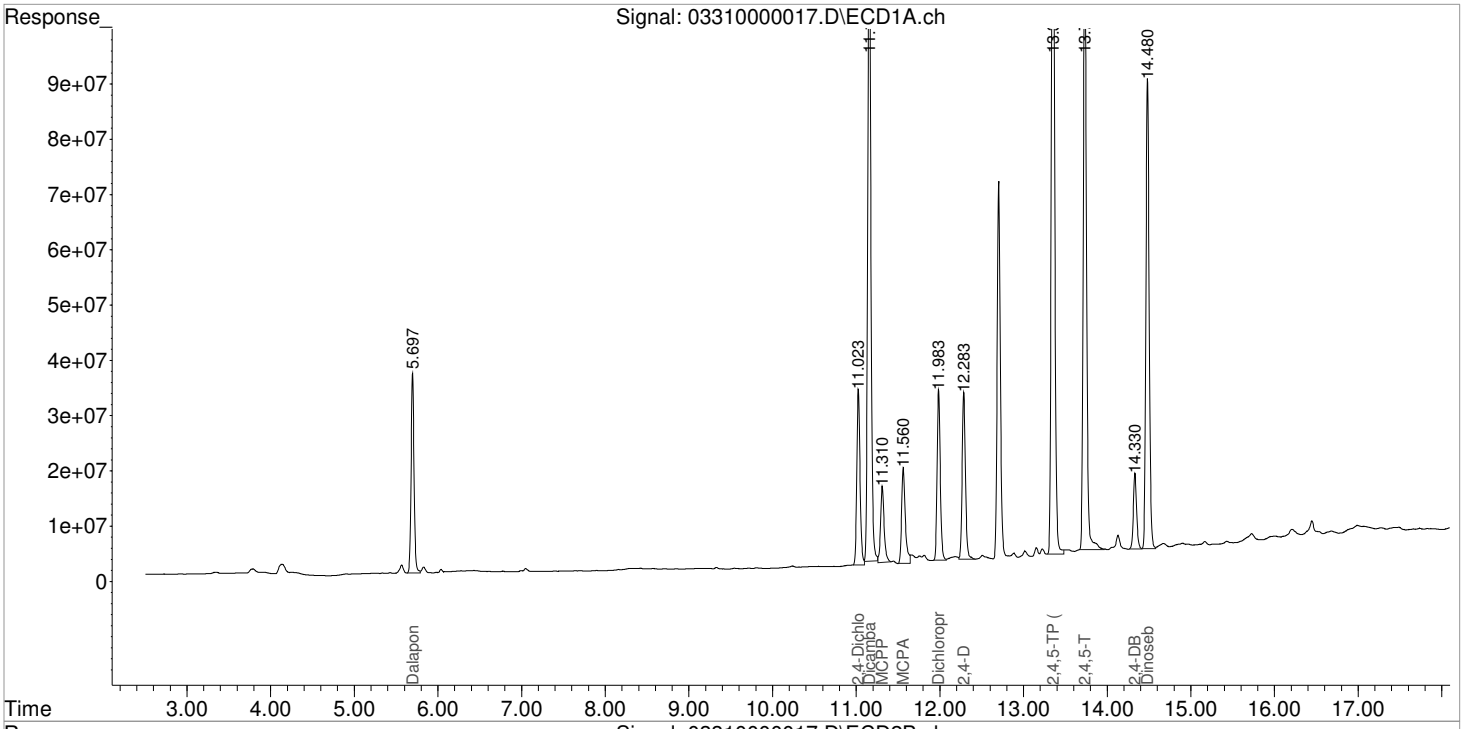
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

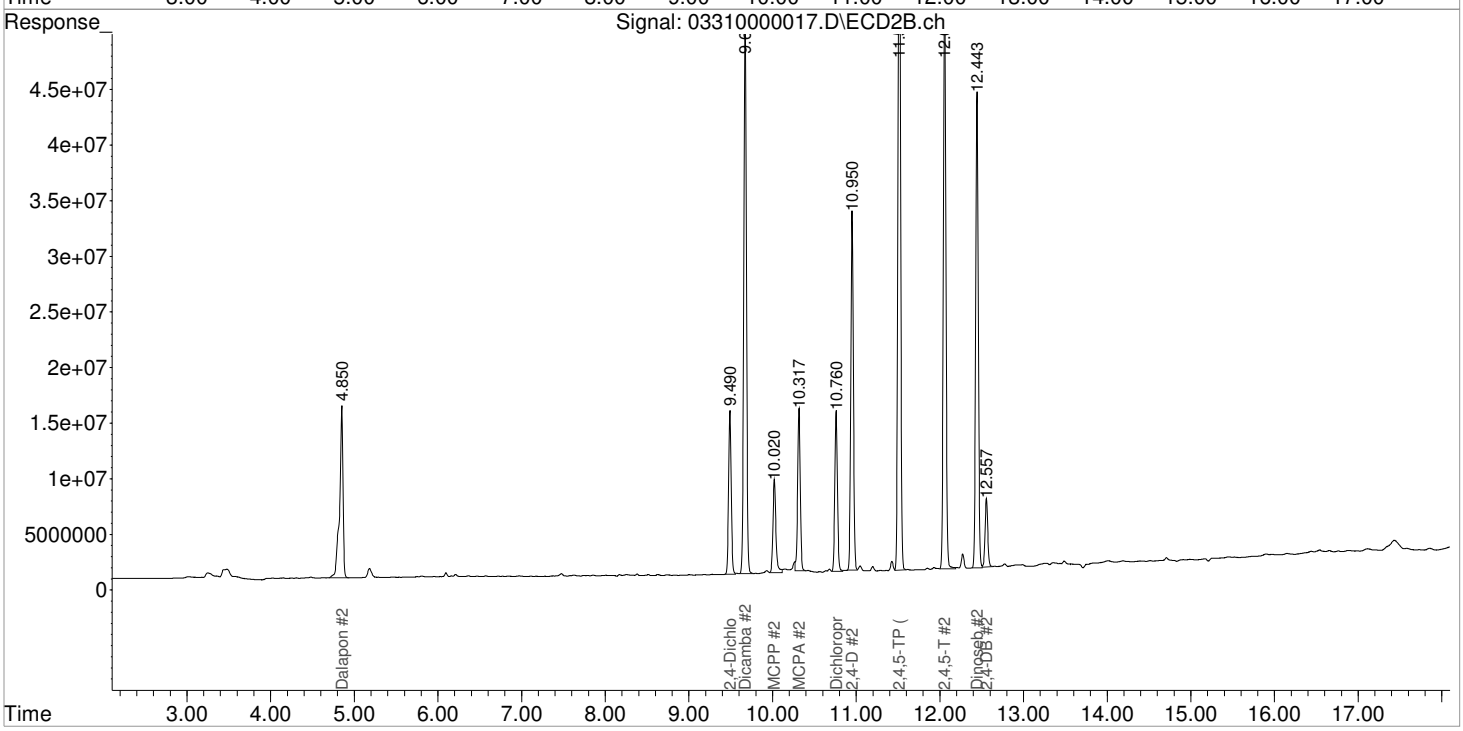
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000017.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 14:50:28 Operator: JTC
Sample : PENTA02-25J 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:25 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





1st JTC 04/01/21
2nd 4w 04/01/21

Validation Report

Data File: J:\GC34\DATA\033121\03310000025.D\
Lab ID: KQ2104596-01
RunType: CCV
Matrix: Soil

Date Acquired: 3/31/21 18:05:04
Batch ID: 717383
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

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Secondary Review: _____

1st JTC 04/01/21
2nd [illegible] 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000025.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 18:05:04	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2105094-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/9/21	**Receive Date:**	3/11/21

Analysis Lot:	718273	**Prep Lot:**		**Report Group:**	KQ2105094
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	11.02	9.48	89313576	32975197	86.687	88.050			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-TP	13.35	11.51	418877845	146297758	97.634	100.010	97.6	100	Y
2,4-D	12.28	10.95	89114451	71211402	91.123	96.327	91.1	96.3	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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1st JTC 04/01/21
2nd [illegible] 04/01/21

Quantitation Report

Data File:	J:\GC34\DATA\033121\03310000025.D\	**Instrument:**	K-GC-34
Acqu Date:	3/31/21 18:05:04	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2104596-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	2/15/21	**Receive Date:**	2/15/21

Analysis Lot:	717383	**Prep Lot:**		**Report Group:**	KQ2104596
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100138
		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	11.02	9.48	89313576	32975197	86.687	88.050			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	13.73	12.05	312406103	115528012	92.647	100.345	92.6	100	Y
2,4,5-TP (Silvex)	13.35	11.51	418877845	146297758	97.634	100.010	97.6	100	Y
2,4-D	12.28	10.95	89114451	71211402	91.123	96.327	91.1	96.3	Y
2,4-DB	14.33	12.55	40983184	15382230	93.904	102.923	93.9	103	Y
Dalapon	5.69	4.84	88454467	44338991	90.442	93.423	90.4	93.4	Y
Dicamba	11.15	9.67	314974569	113042992	95.811	94.138	95.8	94.1	Y
Dichlorprop	11.98	10.75	86220282	32653735	90.621	93.805	90.6	93.8	Y
Dinoseb	14.48	12.44	241756802	95920026	93.421	103.937	93.4	104	Y
MCPA	11.56	10.31	62174768	32287526	9106.007	9167.826	9110	9170	Y
MCPP	11.31	10.02	38391885	20577492	8436.939	9156.609	8440	9160	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 (QT Reviewed)

1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000025.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 18:05:04 Operator: JTC
Sample : PENTA02-25J 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:31 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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...	11.020	9.483	89313576	32975197	86.687	88.050
		Target Compounds						
1)	m	Dalapon	5.690	4.840	88454467	44338991	90.442	93.423
3)	m	Dicamba	11.150	9.667	315.0E6	113.0E6	95.811	94.138
4)	m	MCPP	11.307	10.017	38391885	20577492	8436.939	9156.609
5)	m	MCPA	11.557	10.310	62174768	32287526	9106.007	9167.826
6)	m	Dichloroprop	11.980	10.753	86220282	32653735	90.621	93.805
7)	m	2,4-D	12.280	10.947	89114451	71211402	91.123	96.327
8)	m	2,4,5-TP ...	13.347	11.510	418.9E6	146.3E6	97.634	100.010
9)	m	2,4,5-T	13.727	12.053	312.4E6	115.5E6	92.647	100.345
10)	m	2,4-DB	14.327	12.550	40983184	15382230	93.904	102.923
11)	m	Dinoseb	14.477	12.440	241.8E6	95920026	93.421	103.937

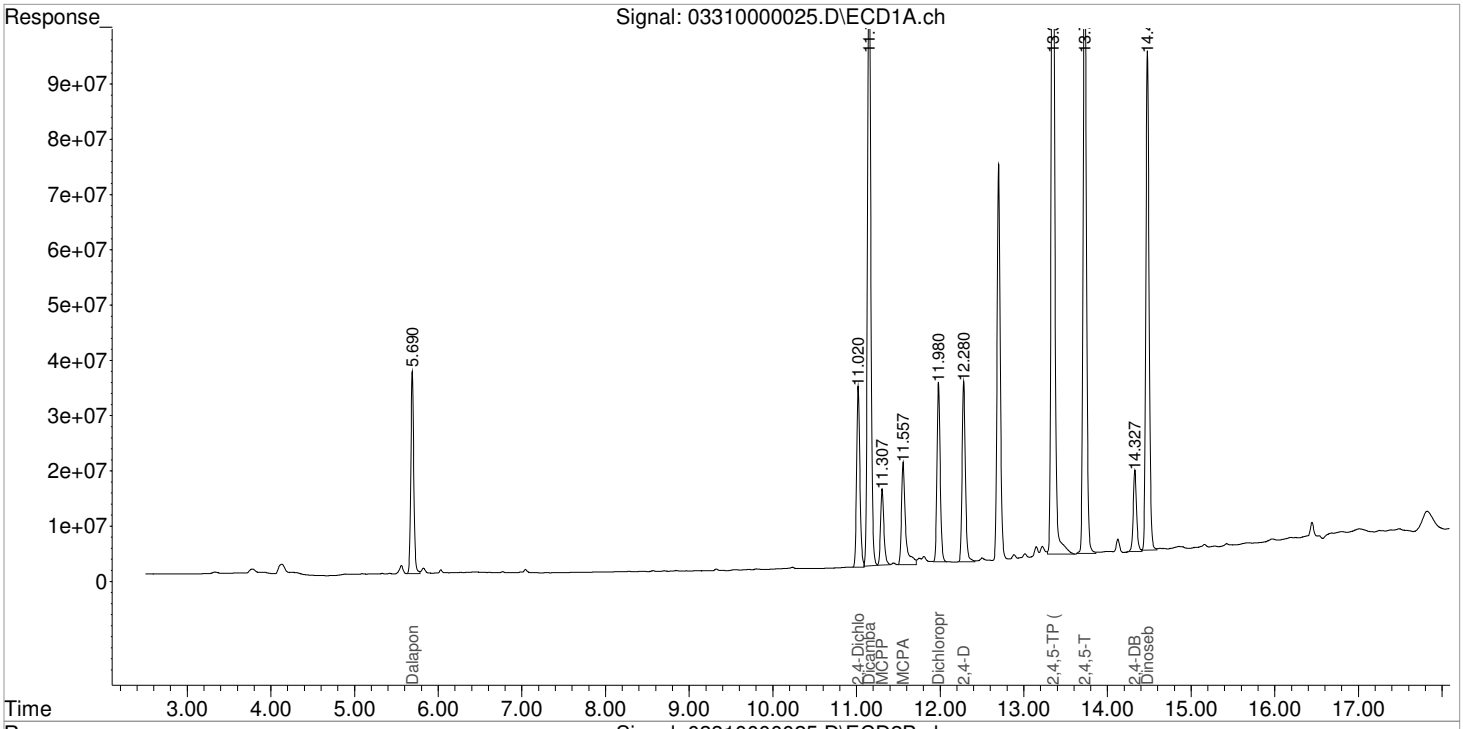
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

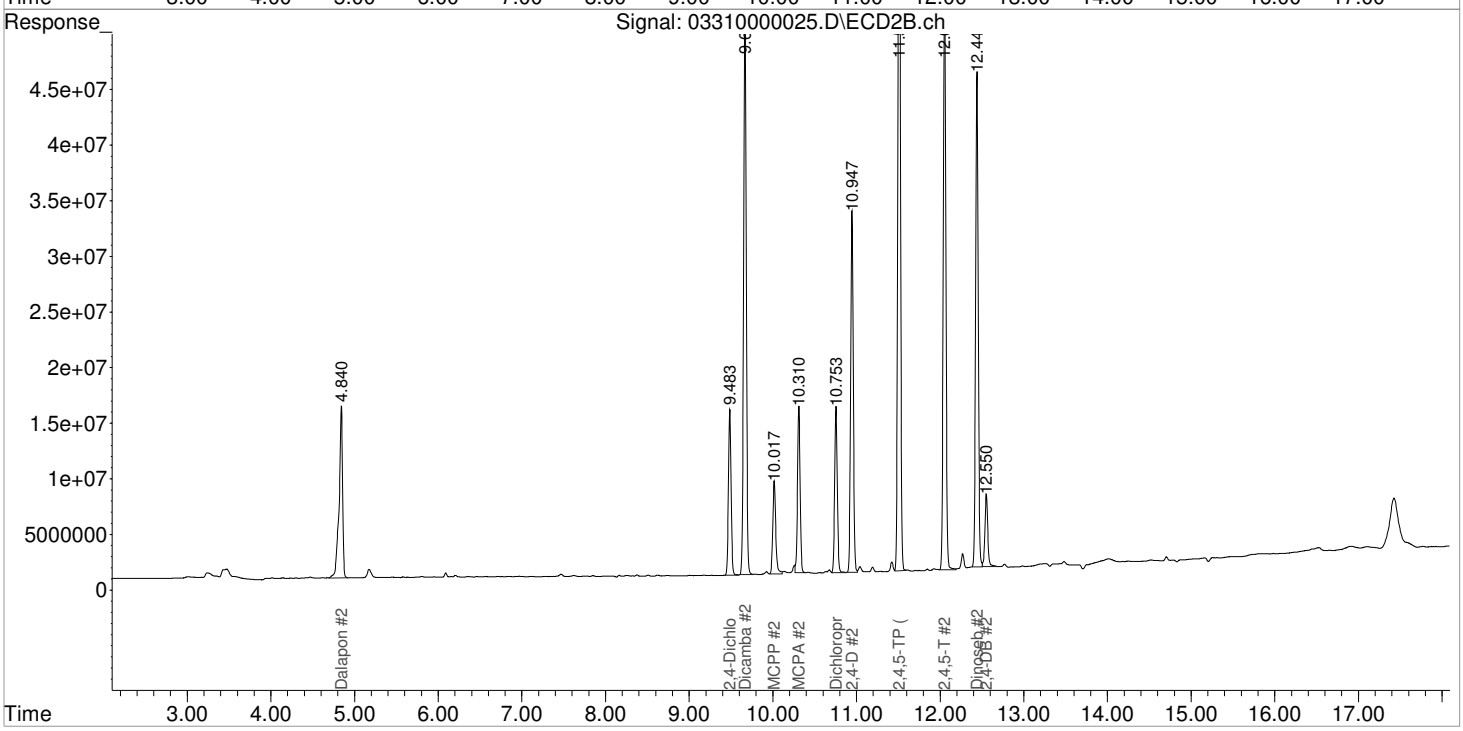
1st JTC 04/01/21
2nd 4w 04/01/21

Data File : J:\GC34\DATA\033121\03310000025.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 18:05:04 Operator: JTC
Sample : PENTA02-25J 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:31 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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





Sequence: C:\GC34\SEQUENCE\031721HB.S

Calibration ID: KC2100138

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
1	Vial 100	PRIMER	8151A-17	1	Sample	
2	Vial 100	PRIMER	8151A-17	1	Sample	
3	Vial 1	PENTA02-24J-100PPB	8151A-17	1	Sample	
4	Vial 2	IB	8151A-17	1	Sample	
5	Vial 10	PENTA02-25D-10PPB	8151A-17	1	Sample	
6	Vial 11	PENTA02-25E-25PPB	8151A-17	1	Sample	
7	Vial 3	PENTA02-24K-75PPB	8151A-17	1	Sample	
8	Vial 4	PENTA02-24L-100PPB	8151A-17	1	Sample	
9	Vial 5	PENTA02-24M-125PPB	8151A-17	1	Sample	
10	Vial 6	PENTA02-24N-150PPB	8151A-17	1	Sample	
11	Vial 7	PENTA02-25A-175PPB	8151A-17	1	Sample	
12	Vial 8	PENTA02-25B-200PPB	8151A-17	1	Sample	
13	Vial 9	PENTA02-25C-100PPB I CV	8151A-17	1	Sample	
14	Vial 1	PENTA02-24J-100PPB	8151A-17	1	Sample	
15	Vial 16	KQ2103635-04 MB (1)	8151A-17	1	Sample	
16	Vial 17	KQ2103635-03 LCS	8151A-17	1	Sample	
17	Vial 18	K2102417-006 MS	8151A-17	1	Sample	
18	Vial 19	K2102417-006 DMS	8151A-17	1	Sample	
19	Vial 20	K2102417-001	8151A-17	1	Sample	
20	Vial 21	K2102417-002	8151A-17	1	Sample	
21	Vial 22	K2102417-003	8151A-17	1	Sample	
22	Vial 23	K2102417-004	8151A-17	1	Sample	
23	Vial 24	K2102417-005	8151A-17	1	Sample	
24	Vial 25	K2102417-006	8151A-17	1	Sample	

(1) Method Blank acting as IB 3.17.21 JTC

Quantitation Report (QT Reviewed)

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:30:20 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:53:33 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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...	11.057f	0.000	326453	0	0.305	N.D.	#
		Target Compounds							
1)	m	Dalapon	0.000	4.890f	0	26146	N.D.	0.059	#
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D.	
4)	m	MCPP	11.340	0.000	137261	0	983764.408	N.D.	#
5)	m	MCPA	0.000	10.270	0	896176	N.D.	264.173	#
6)	m	Dichloroprop	11.927f	10.767	92423	34823	0.091m	0.102	
7)	m	2,4-D	0.000	10.940	0	271604	N.D.	0.372	#
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.

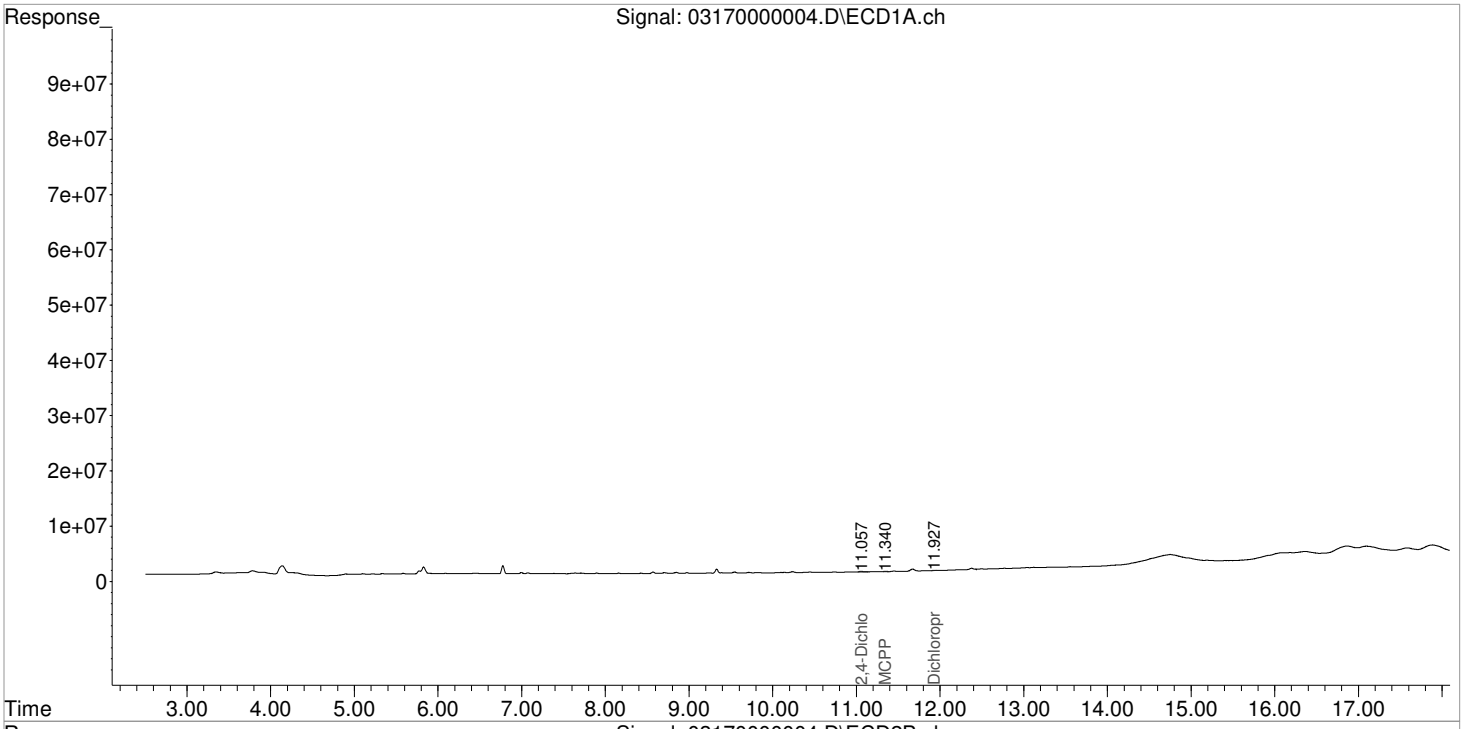
Quantitation Report (QT Reviewed)

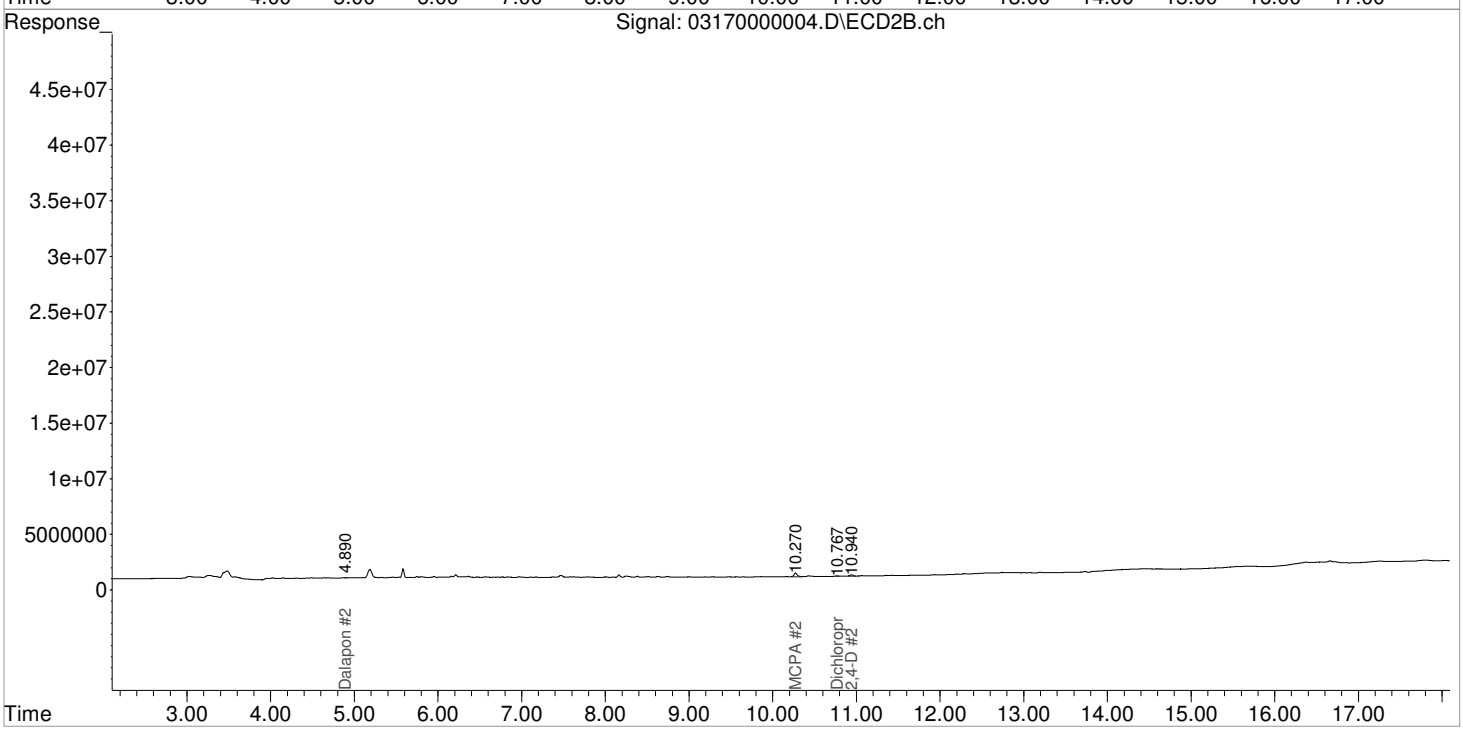
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:30:20 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:53:33 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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





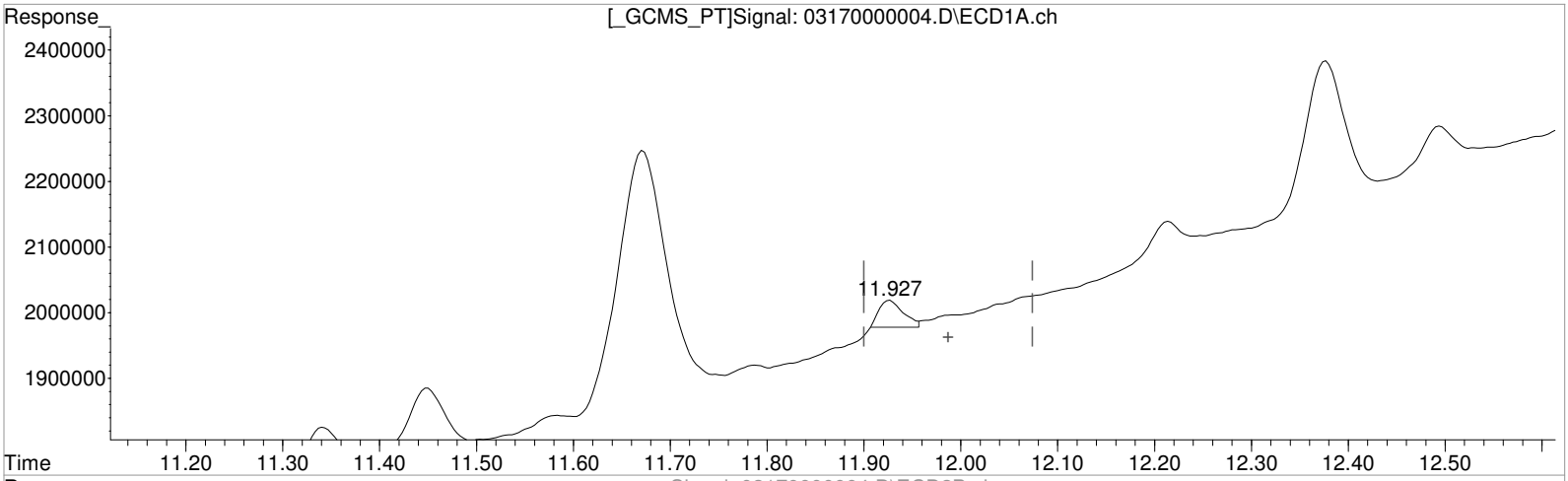
Quantitation Report (Qedit)

1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:30:20 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:52:34 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(6) Dichloroprop (m)

11.927min 0.072 ppb

response 72871

Manual Integration:

Before

03/17/21

(6) Dichloroprop #2 (m)

10.767min 0.102 ppb

response 34823

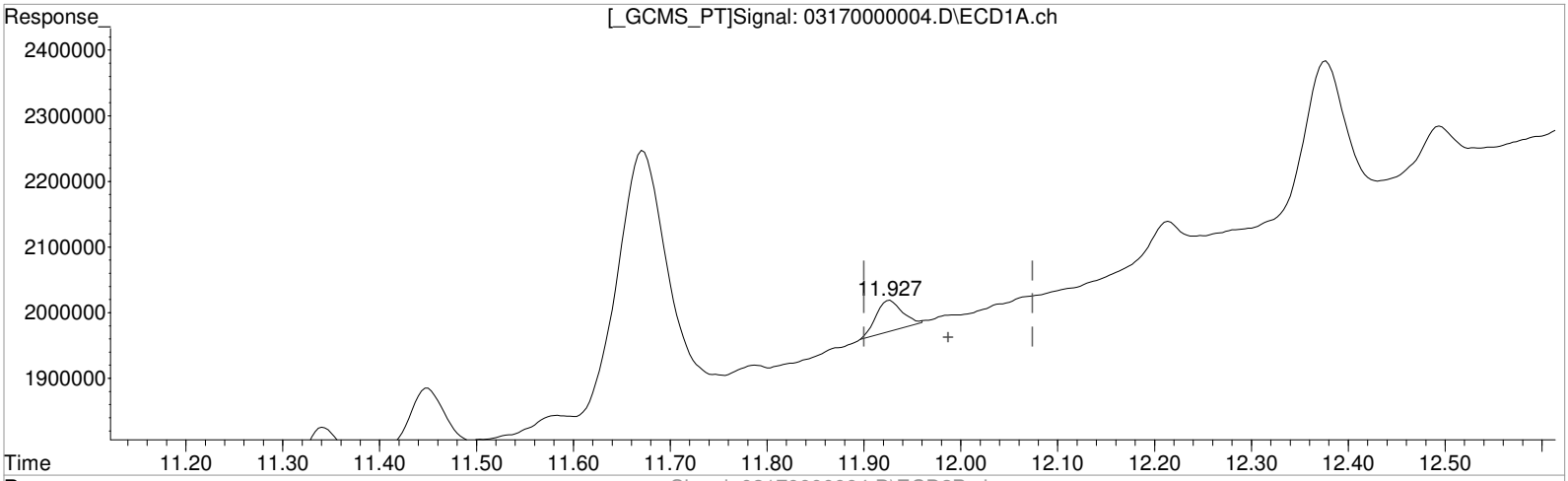
(+) = Expected Retention Time

1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:30:20 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:52:34 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(6) Dichloroprop (m)

11.927min 0.091 ppb m

response 92423

Manual Integration:

After

Baseline/Shoulder

03/17/21

(6) Dichloroprop #2 (m)

10.767min 0.102 ppb

response 34823

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000005.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:54:19 Operator: JTC
Sample : PENTA02-25D-10PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:02:27 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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...	11.030	9.493	9440183	4013214	8.829	11.014	
		Target Compounds							
1)	m	Dalapon	5.700	4.853	9222528	4807126	9.568	10.851	
3)	m	Dicamba	11.160	9.677	27436279	11205207	8.453	9.568	
4)	m	MCPP	11.317	10.027	5827642	3460219	821.984	937.409	
5)	m	MCPA	11.567	10.320	7942697	3992596	616.552	1176.929	#
6)	m	Dichloroprop	11.990	10.763	8290825	3554203	8.155	10.369	#
7)	m	2,4-D	12.290	10.957	7931923	7524047	7.330	10.305	#
8)	m	2,4,5-TP ...	13.357	11.520	34147226	13208530	7.483	9.186	
9)	m	2,4,5-T	13.737	12.063	26037846	9893930	7.023	8.469	
10)	m	2,4-DB	14.337	12.563	3401377	1549863	6.431m	9.643	#
11)	m	Dinoseb	14.487	12.450	23264403	9246274	8.252m	10.114	

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

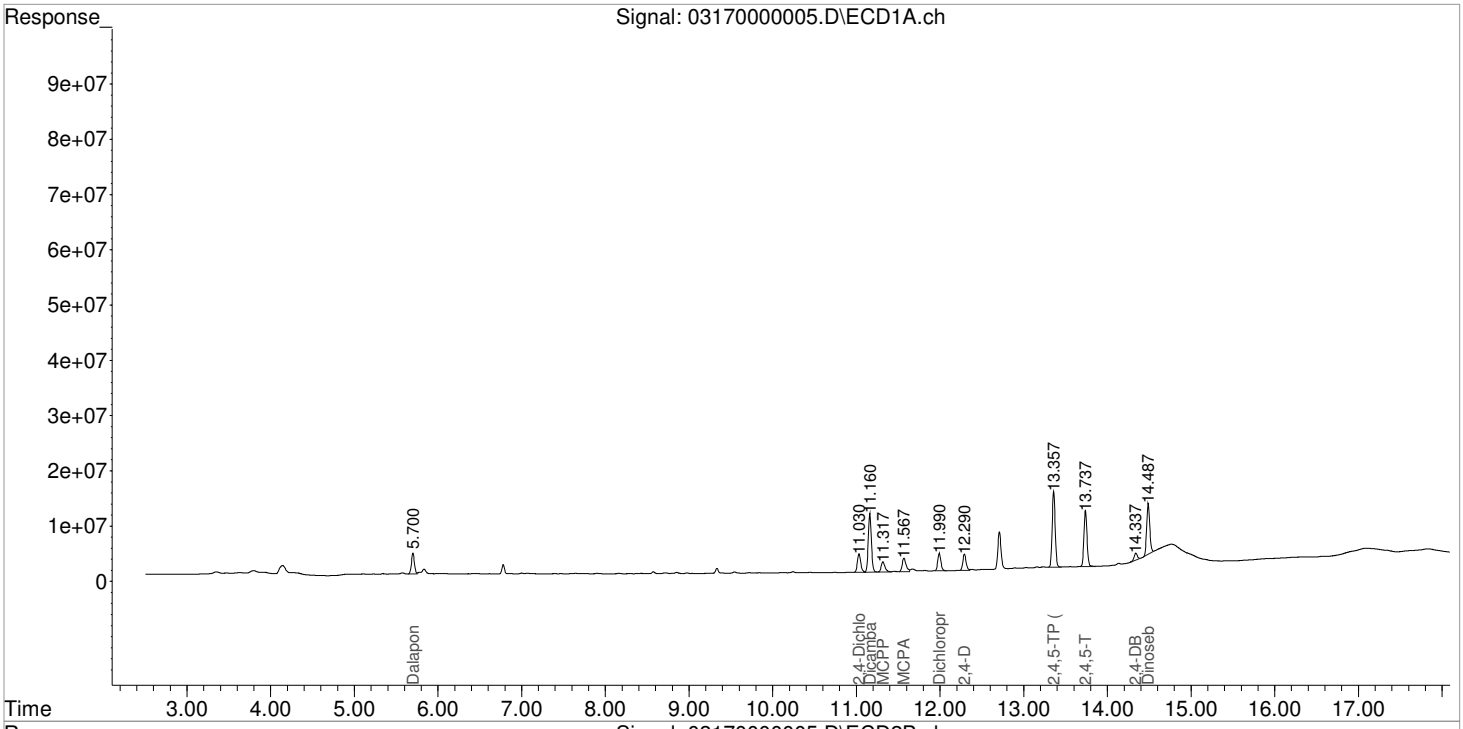
Quantitation Report (QT Reviewed)

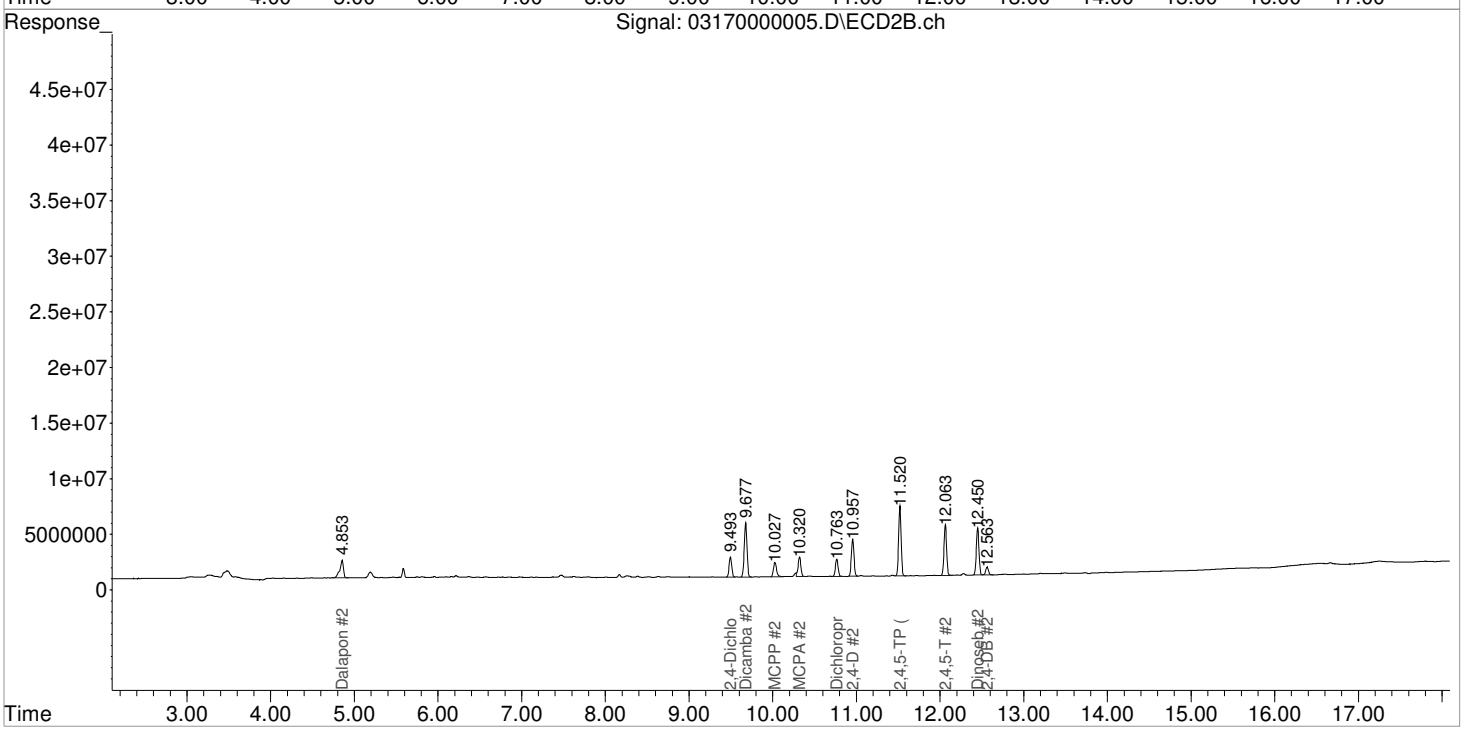
1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000005.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:54:19 Operator: JTC
Sample : PENTA02-25D-10PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:02:27 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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





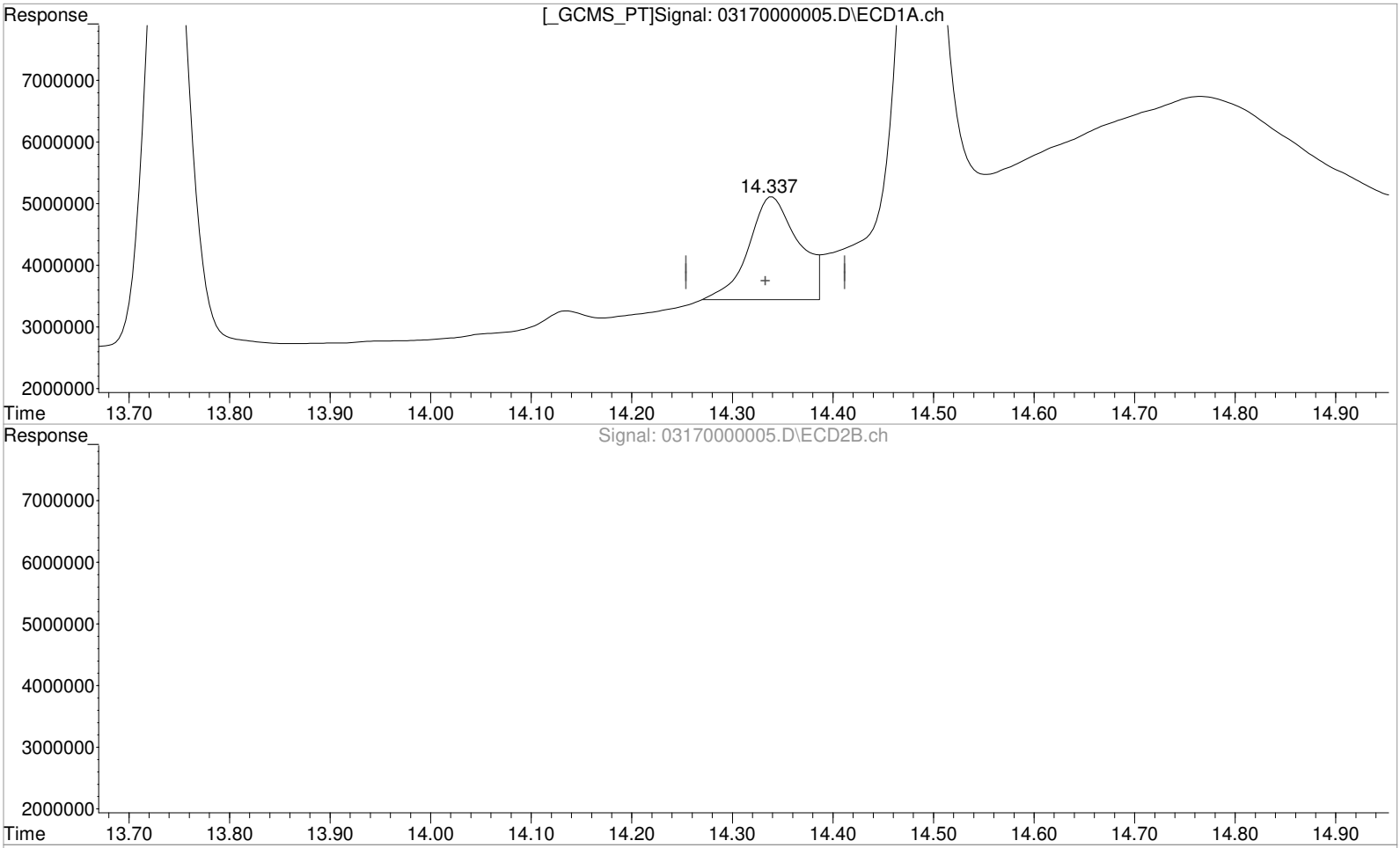
Quantitation Report (Qedit)

1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000005.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:54:19 Operator: JTC
Sample : PENTA02-25D-10PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:00:55 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(10) 2,4-DB (m)

14.337min 11.011 ppb

response 5823881

Manual Integration:

Before

03/17/21

(10) 2,4-DB #2 (m)

12.563min 9.643 ppb

response 1549863

(+) = Expected Retention Time

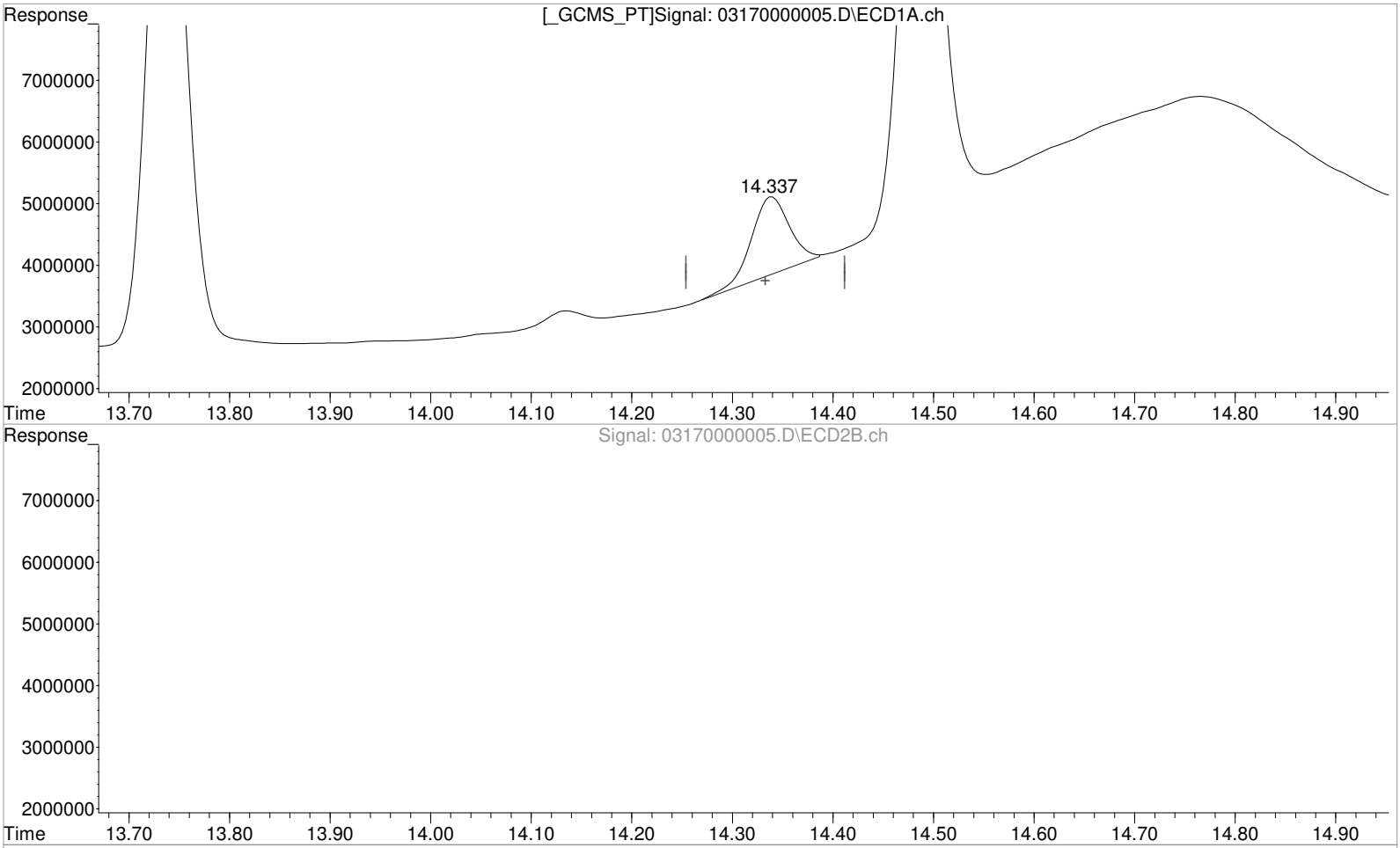
Quantitation Report (Qedit)

1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000005.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:54:19 Operator: JTC
Sample : PENTA02-25D-10PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:00:55 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(10) 2,4-DB (m)

14.337min 6.431 ppb m

response 3401377

Manual Integration:

After

Baseline/Shoulder

03/17/21

(10) 2,4-DB #2 (m)

12.563min 9.643 ppb

response 1549863

(+) = Expected Retention Time

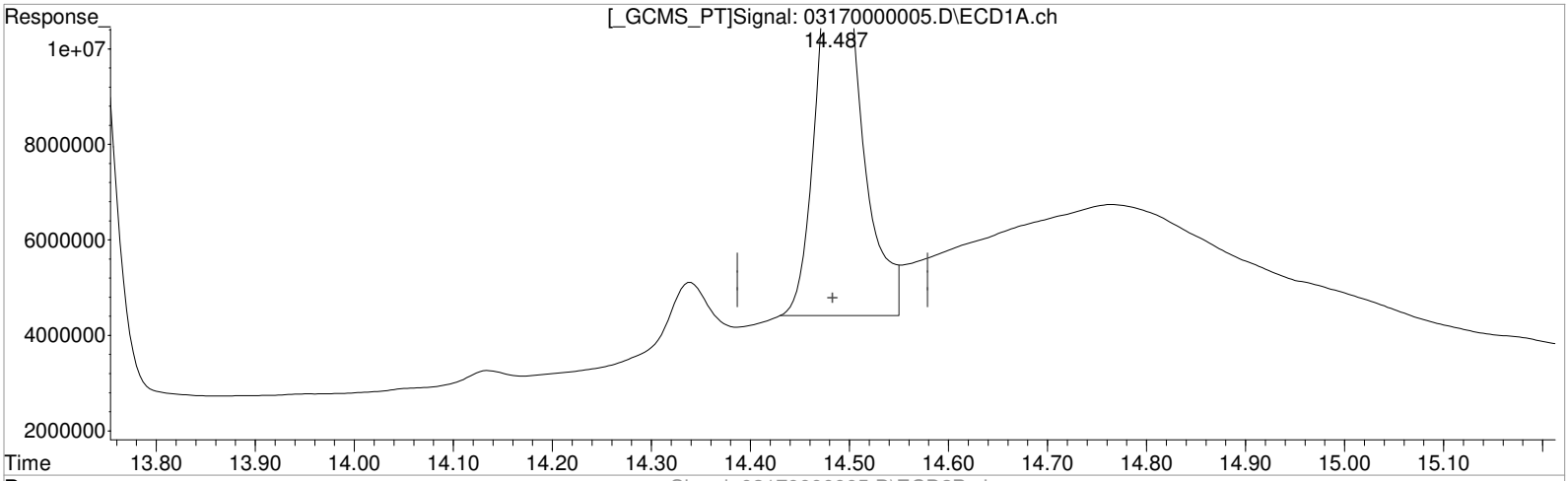
Quantitation Report (Qedit)

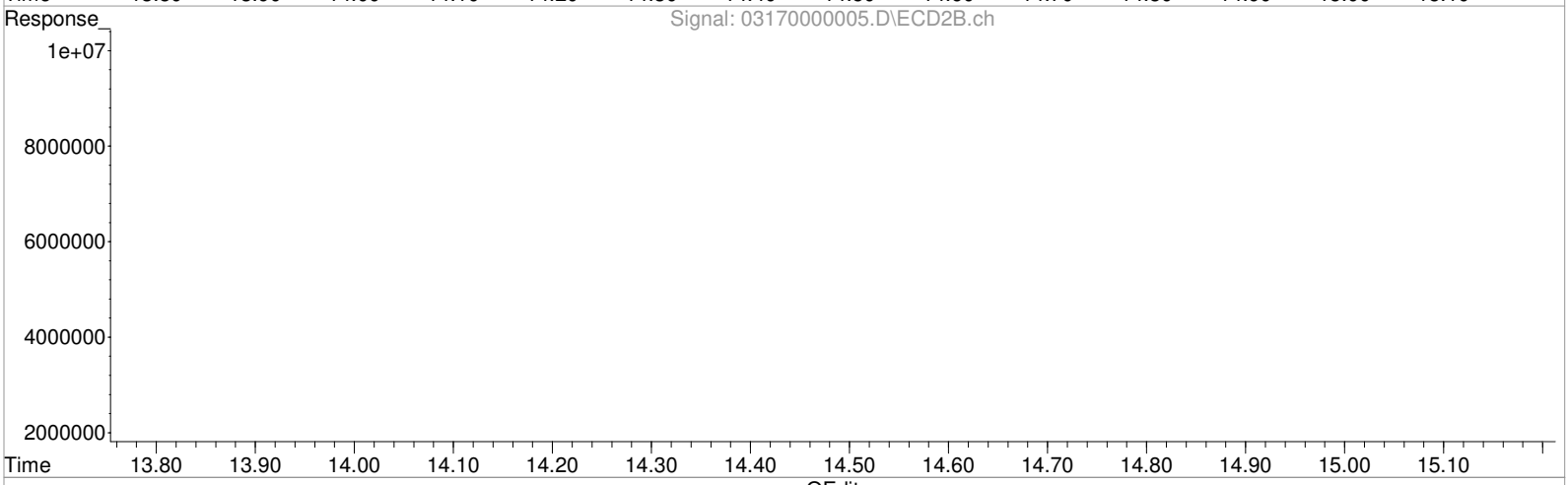
1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000005.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:54:19 Operator: JTC
Sample : PENTA02-25D-10PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:00:55 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(11) Dinoseb (m)

14.487min 9.629 ppb

response 27148573

Manual Integration:

Before

03/17/21

(11) Dinoseb #2 (m)

12.450min 10.114 ppb

response 9246274

(+) = Expected Retention Time

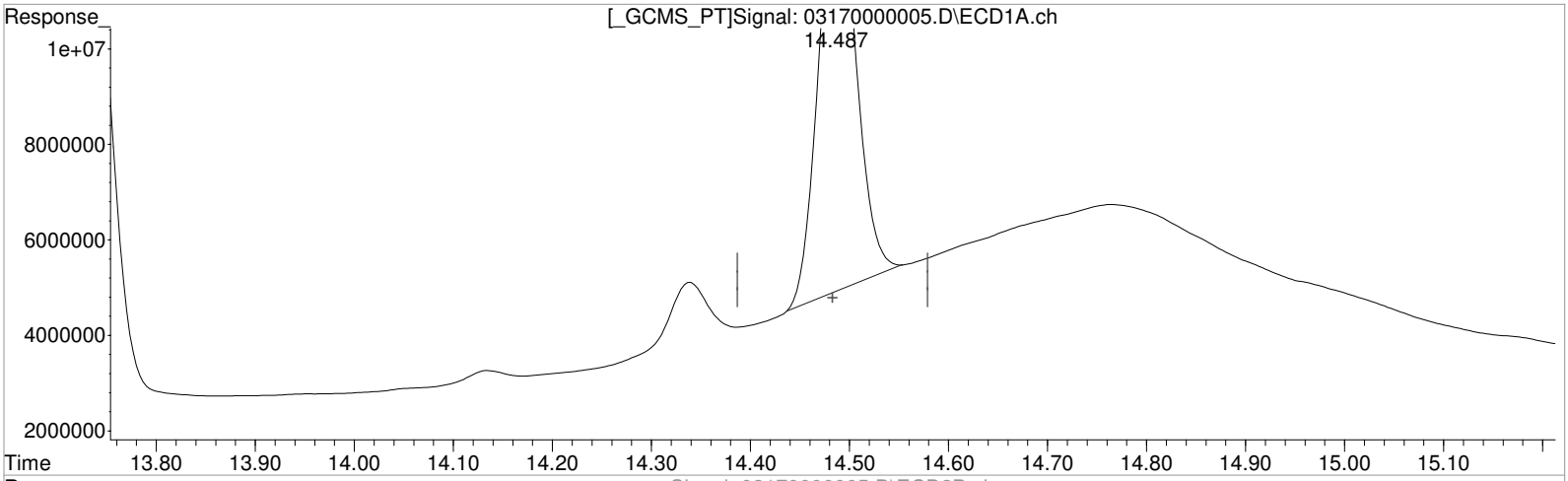
Quantitation Report (Qedit)

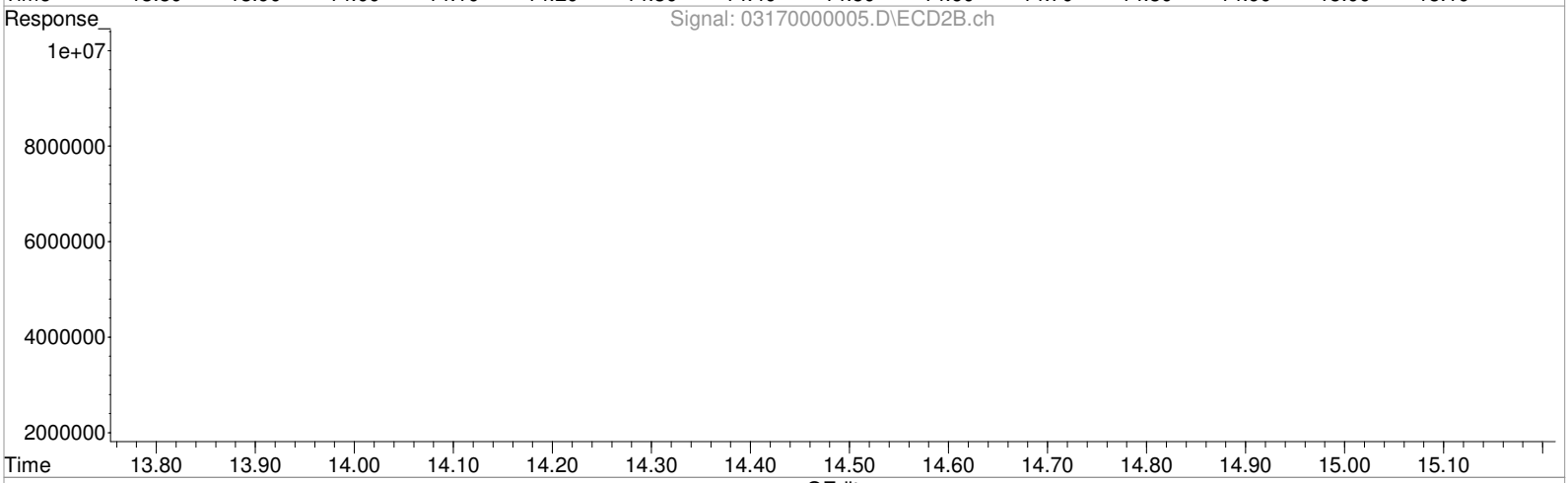
1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000005.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:54:19 Operator: JTC
Sample : PENTA02-25D-10PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:00:55 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(11) Dinoseb (m)

14.487min 8.252 ppb m

response 23264403

Manual Integration:

After

Baseline/Shoulder

03/17/21

(11) Dinoseb #2 (m)

12.450min 10.114 ppb

response 9246274

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000006.D Vial: 11
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 12:18:20 Operator: JTC
Sample : PENTA02-25E-25PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:00:58 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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...	11.023	9.490	23959127	9118341	22.408	25.024
		Target Compounds						
1)	m	Dalapon	5.693	4.847	22314960	11267259	23.151	25.434
3)	m	Dicamba	11.153	9.670	75032714	27453768	23.117	23.441
4)	m	MCPP	11.310	10.020	12028790	6976610	2353.286	2556.035
5)	m	MCPA	11.560	10.313	18459878	8904546	2211.603	2624.863
6)	m	Dichloroprop	11.983	10.760	22349532	8316593	21.984	24.263
7)	m	2,4-D	12.283	10.950	21699215	17771339	20.053	24.339
8)	m	2,4,5-TP ...	13.350	11.513	95055999	33758092	20.830	23.478
9)	m	2,4,5-T	13.730	12.057	72358484	25564764	19.515	21.882
10)	m	2,4-DB	14.330	12.557	10260529	3659006	19.399	22.766
11)	m	Dinoseb	14.480	12.443	58714275	22285336	20.825	24.377

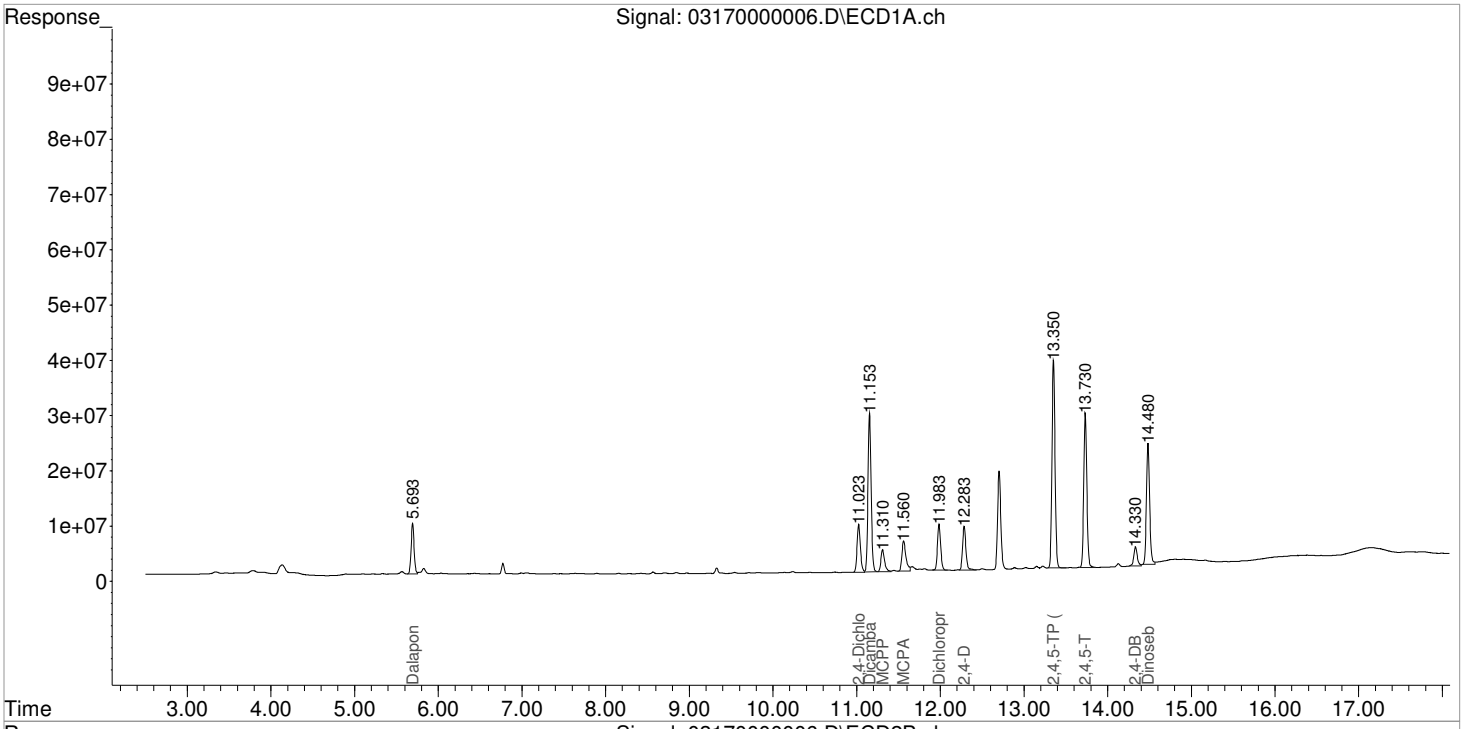
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

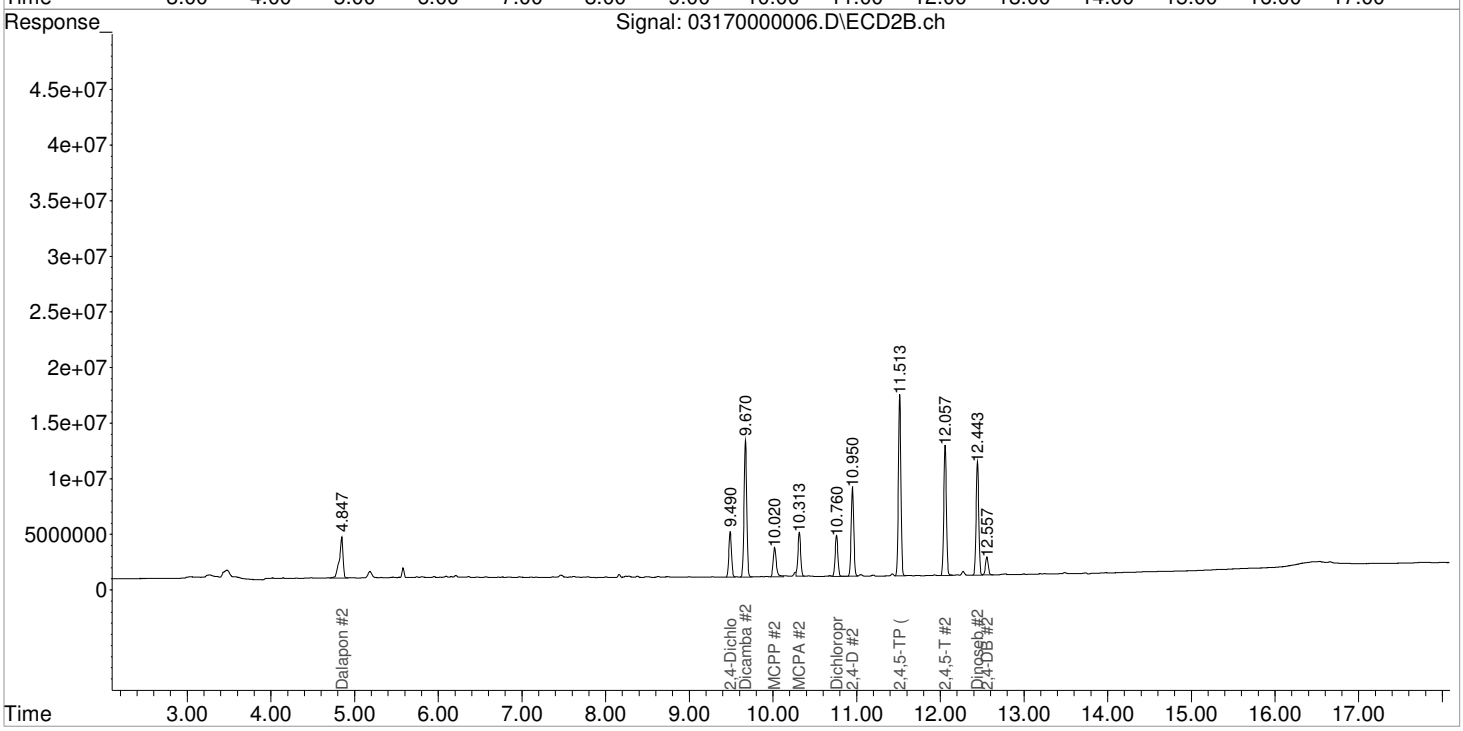
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000006.D Vial: 11
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 12:18:20 Operator: JTC
Sample : PENTA02-25E-25PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:00:58 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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





Quantitation Report (QT Reviewed)

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000007.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 12:42:34 Operator: JTC
Sample : PENTA02-24K-75PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:03:17 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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...	11.023	9.487	64867454	23249180	60.668	63.803
		Target Compounds						
1)	m	Dalapon	5.693	4.847	61575153	29713939	63.883	67.074
3)	m	Dicamba	11.153	9.670	217.6E6	77670750	67.029	66.319
4)	m	MCPP	11.310	10.020	29045853	15658331	6580.290	6746.670
5)	m	MCPA	11.560	10.313	44209107	22643214	6221.087m	6674.719
6)	m	Dichloroprop	11.983	10.760	63242298	22435856	62.209	65.454
7)	m	2,4-D	12.283	10.950	63212106	47899297	58.416	65.601
8)	m	2,4,5-TP ...	13.350	11.513	284.2E6	97013259	62.278	67.472
9)	m	2,4,5-T	13.733	12.057	220.2E6	75231735	59.380	64.395
10)	m	2,4-DB	14.330	12.557	28493848	9725604	53.872	60.512
11)	m	Dinoseb	14.483	12.443	167.6E6	60004638	59.432	65.635

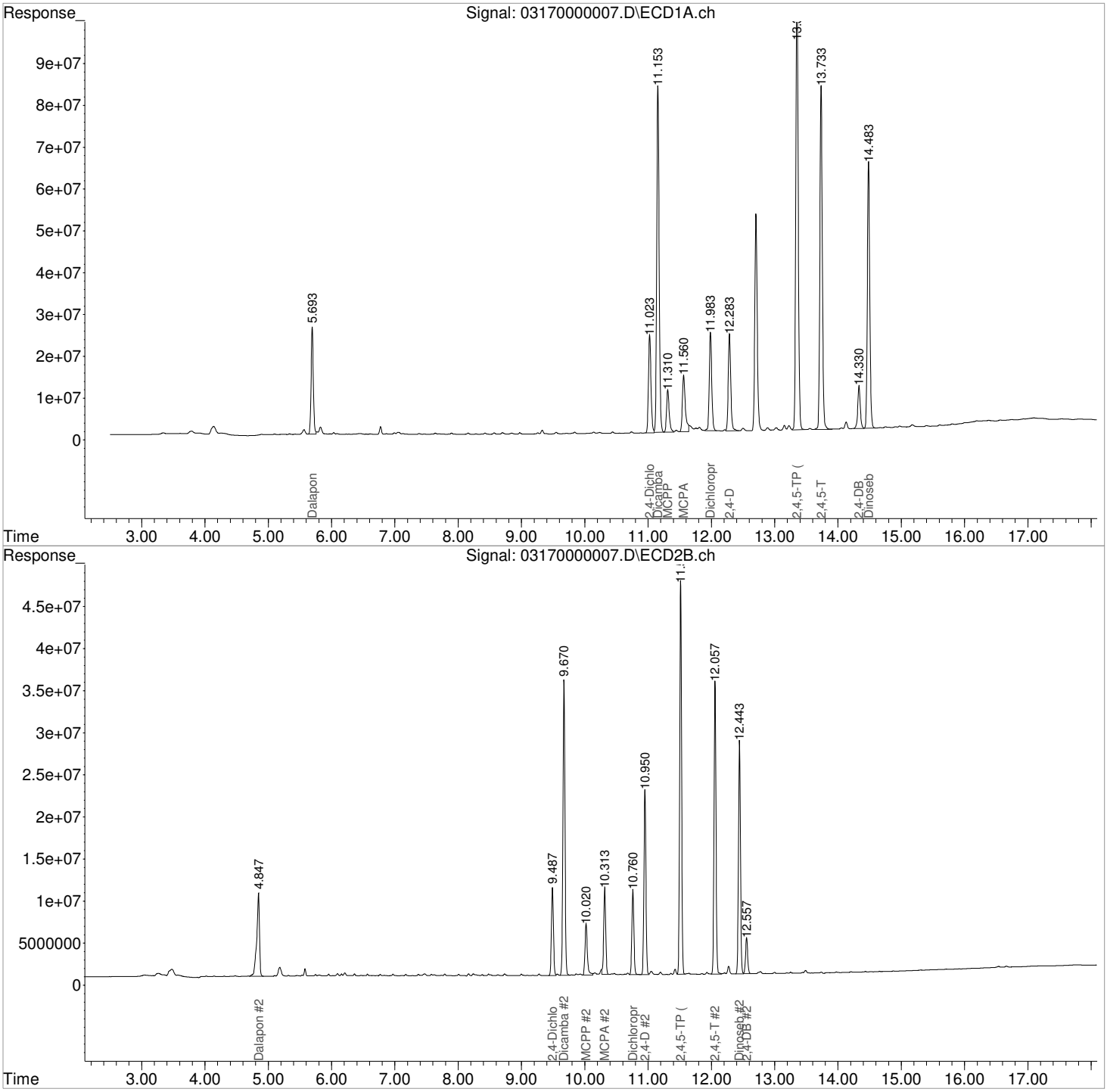
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000007.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 12:42:34 Operator: JTC
Sample : PENTA02-24K-75PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:03:17 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

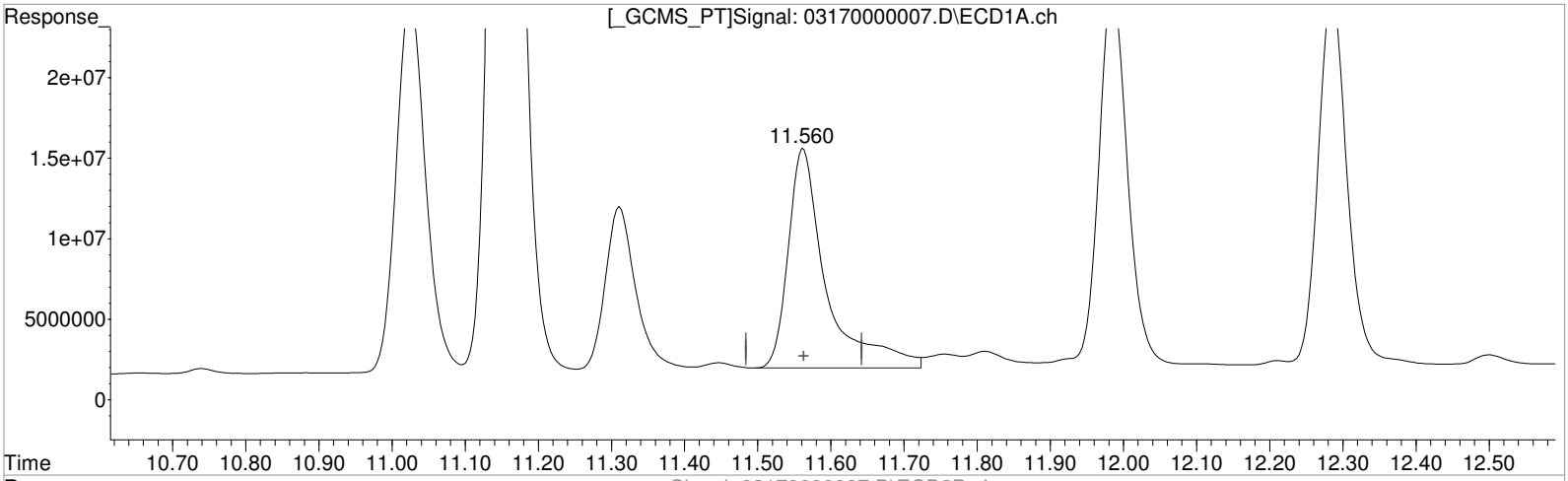


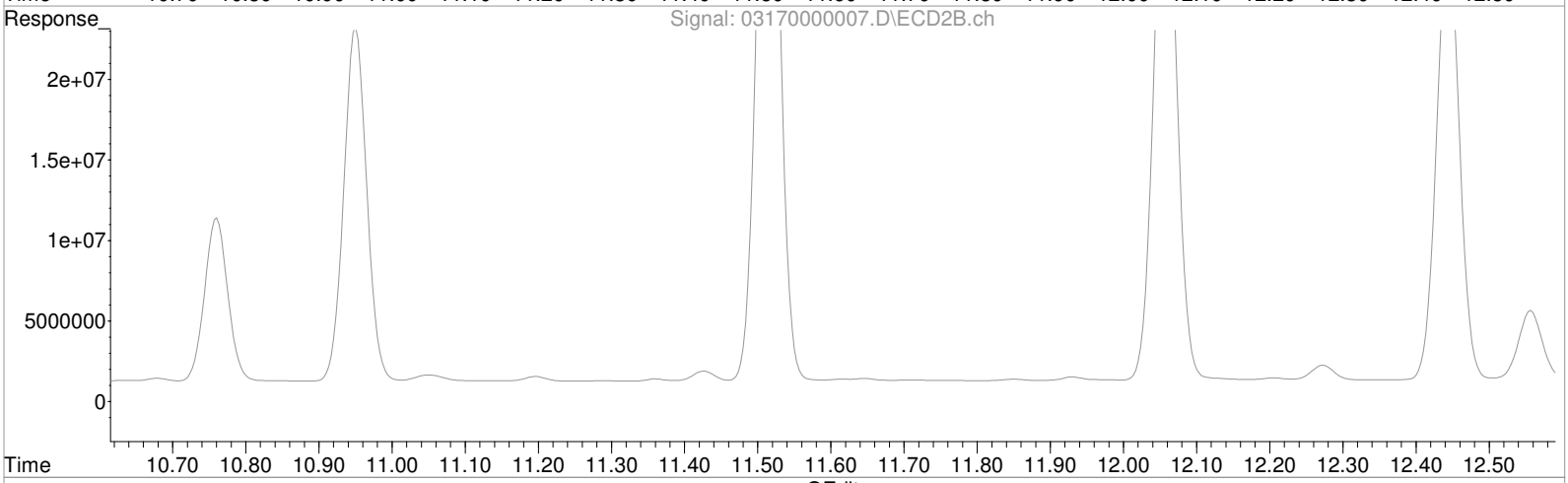
1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000007.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 12:42:34 Operator: JTC
Sample : PENTA02-24K-75PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:01 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(5) MCPA (m)

11.560min 7038.934 ppb

response 49340542

(5) MCPA #2 (m)

10.313min 6674.719 ppb

response 22643214

Manual Integration:

Before

03/17/21

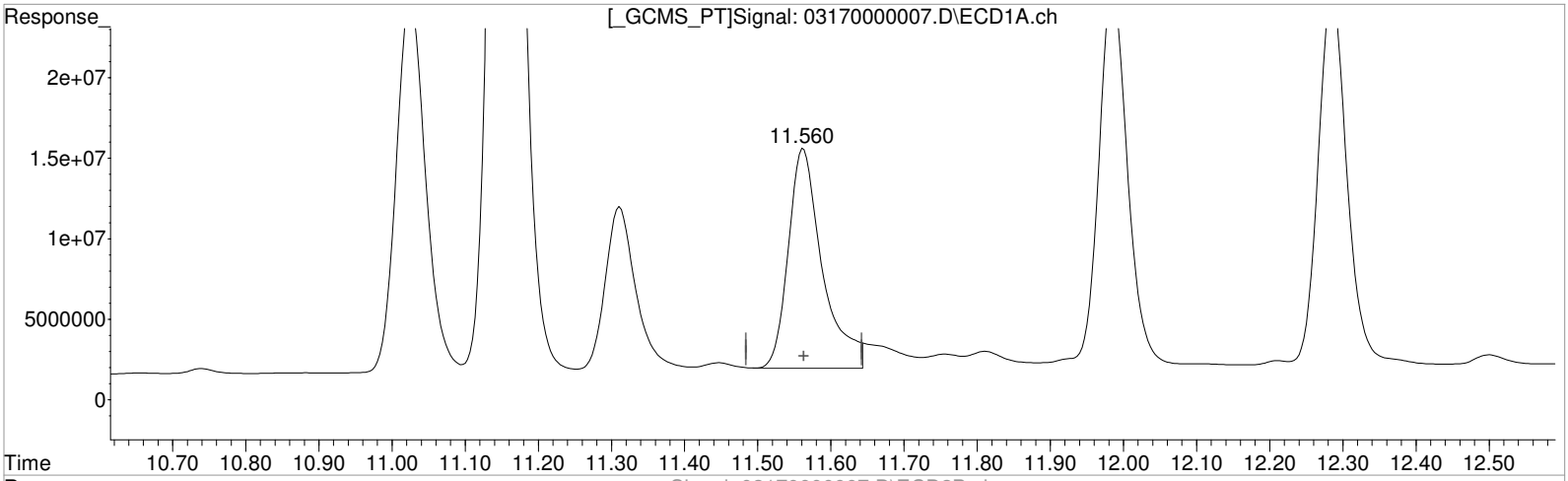
(+) = Expected Retention Time

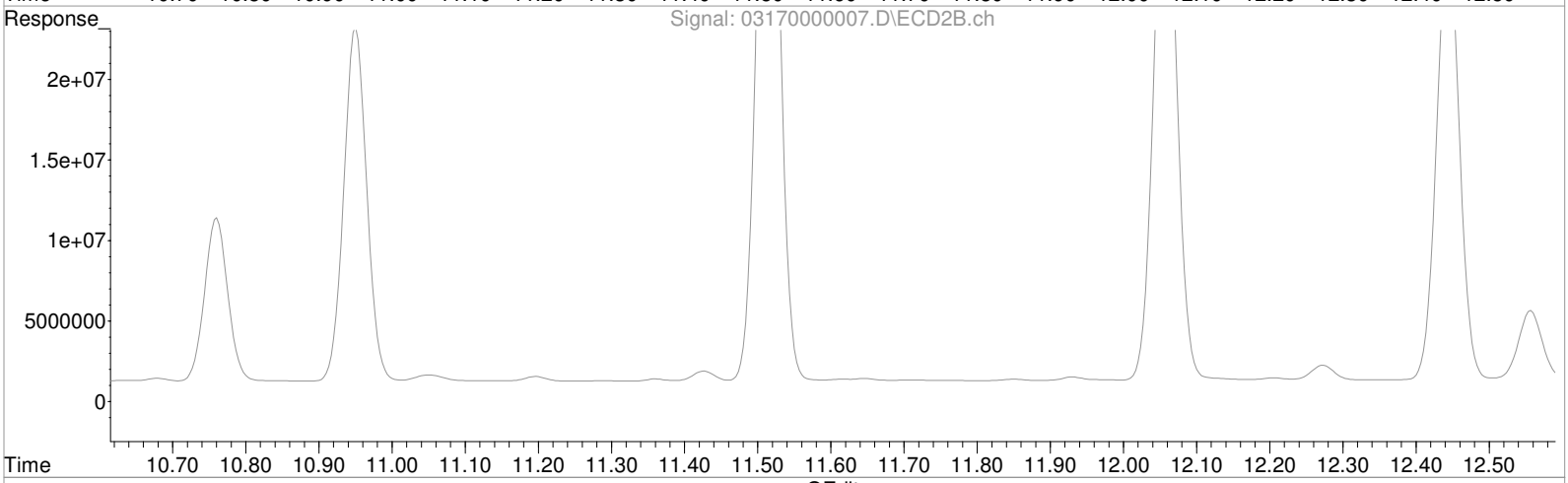
1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000007.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 12:42:34 Operator: JTC
Sample : PENTA02-24K-75PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:01 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(5) MCPA (m)

11.560min 6221.087 ppb m

response 44209107

Manual Integration:

After

Baseline/Shoulder

03/17/21

(5) MCPA #2 (m)

10.313min 6674.719 ppb

response 22643214

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000008.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:06:33 Operator: JTC
Sample : PENTA02-24L-100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:59:49 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 15:58:47 2021
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...	11.023	9.490	92601078	32671085	86.607	89.660
		Target Compounds						
1)	m	Dalapon	5.693	4.847	89462223	42502837	92.816	95.942
3)	m	Dicamba	11.153	9.670	316.5E6	112.9E6	97.504	96.413
4)	m	MCPP	11.310	10.020	39837527	21334760	9280.115	9659.926
5)	m	MCPA	11.560	10.313	61063353	31771253	8932.358m	9365.463
6)	m	Dichloroprop	11.983	10.760	90900863	32274282	89.415	94.157
7)	m	2,4-D	12.283	10.950	93754244	68660480	86.641	94.035
8)	m	2,4,5-TP ...	13.353	11.513	418.7E6	140.9E6	91.749	97.978
9)	m	2,4,5-T	13.733	12.057	327.3E6	110.9E6	88.281	94.946
10)	m	2,4-DB	14.333	12.557	41568349	13872991	78.592	86.317
11)	m	Dinoseb	14.480	12.443	244.6E6	85842179	86.759	93.898

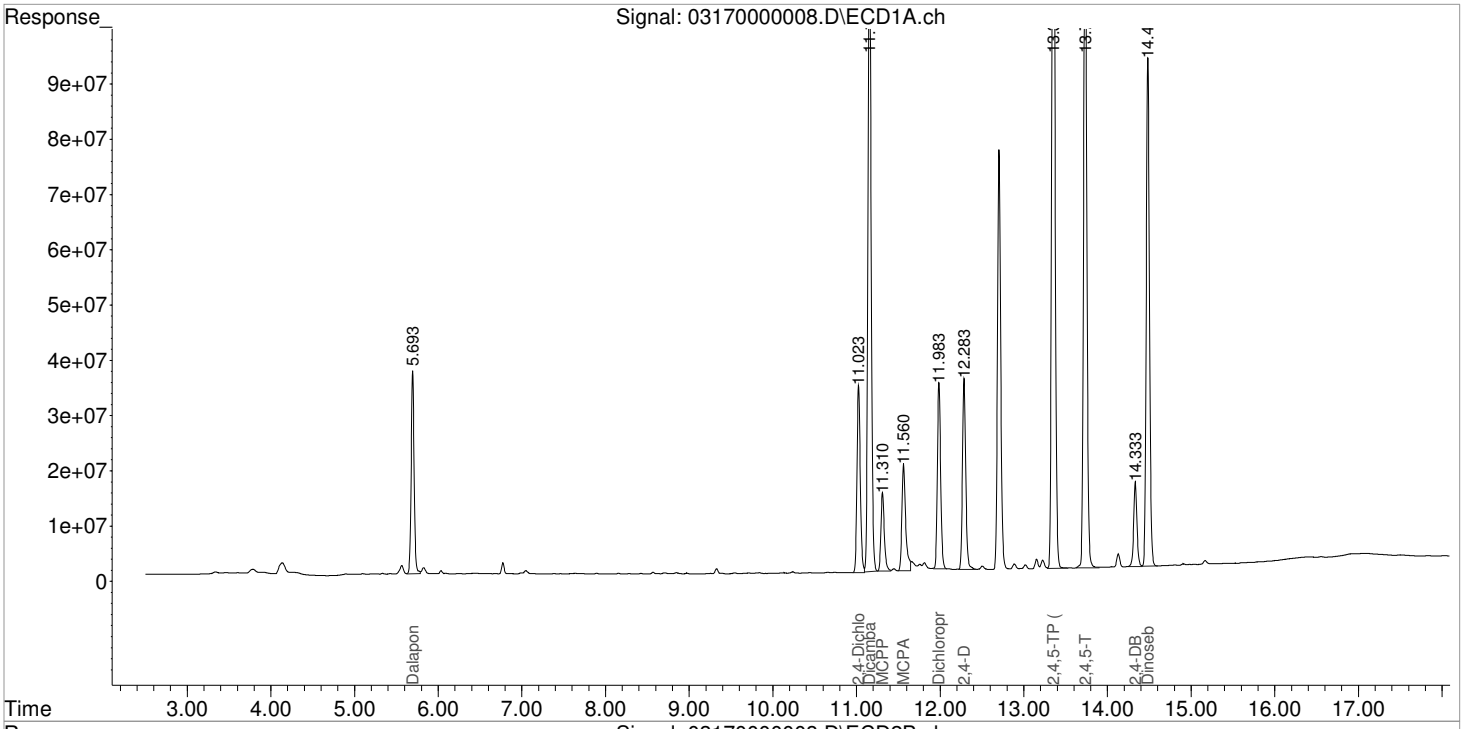
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

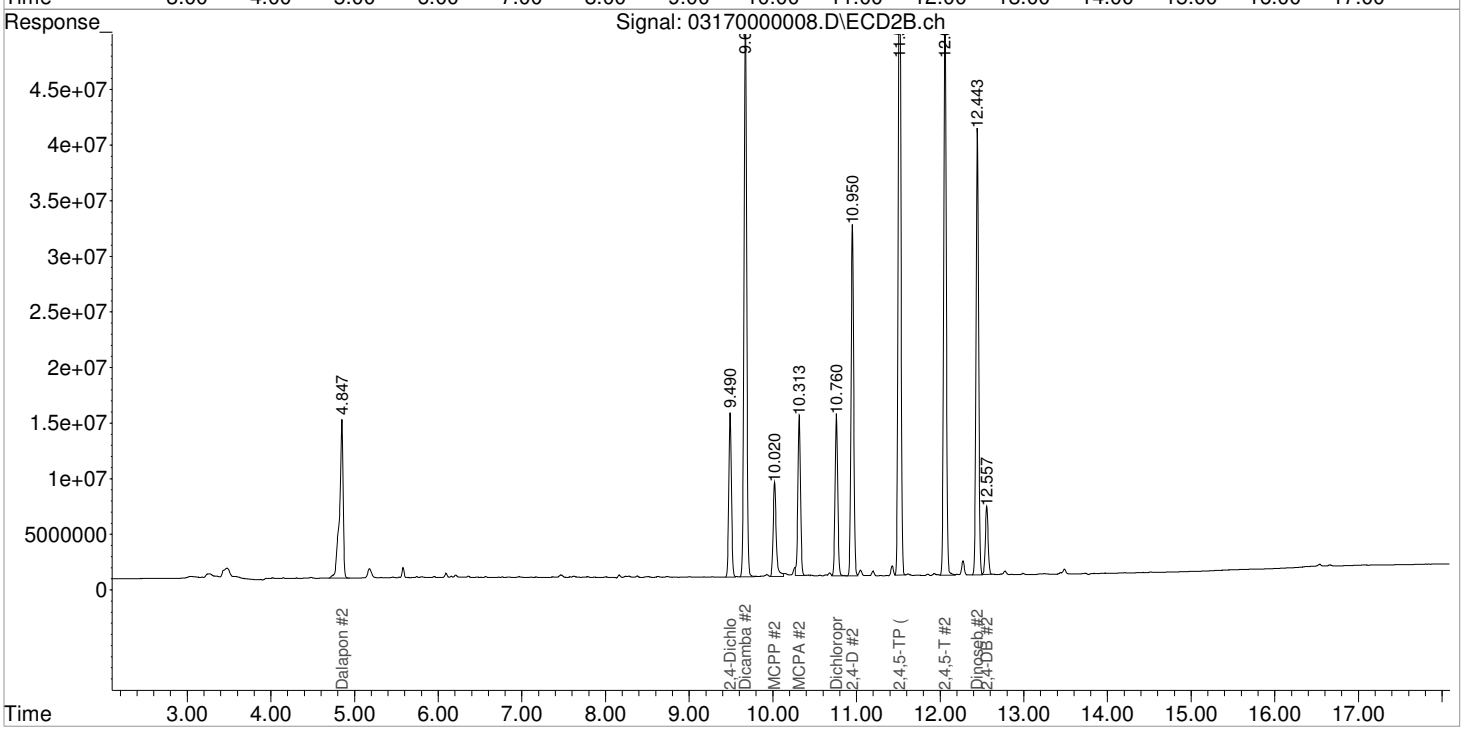
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000008.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:06:33 Operator: JTC
Sample : PENTA02-24L-100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:59:49 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 15:58:47 2021
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



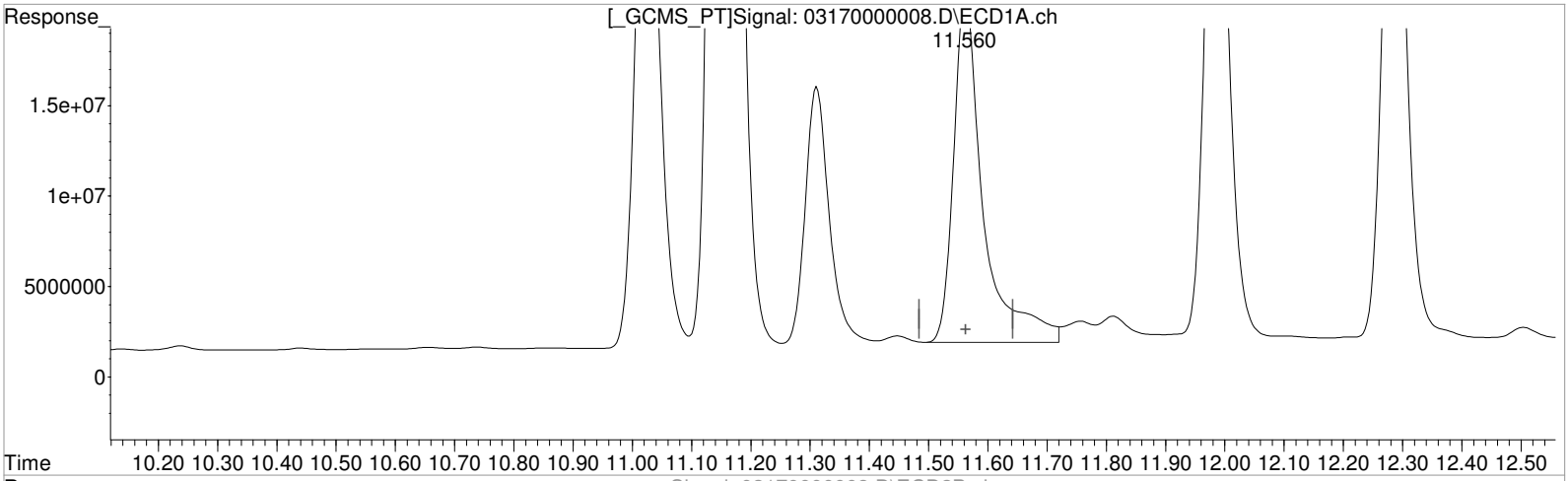


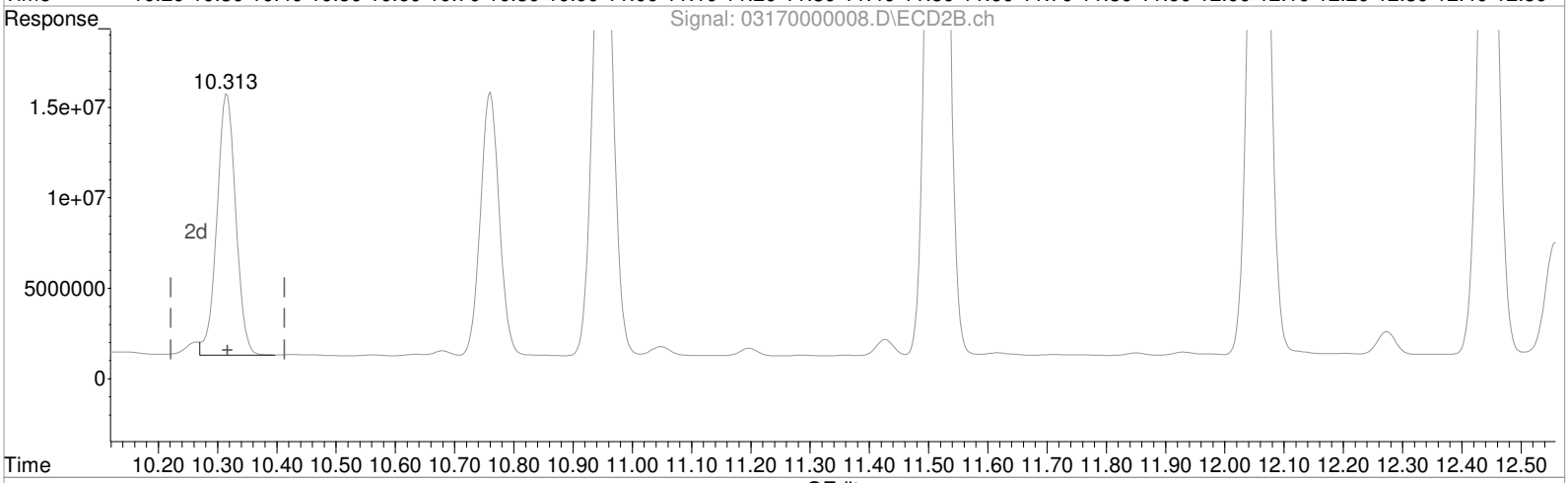
1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000008.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:06:33 Operator: JTC
Sample : PENTA02-24L-100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:59:20 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 15:58:47 2021
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

(5) MCPA (m)

11.560min 9865.258 ppb

response 66758538

(5) MCPA #2 (m)

10.313min 9365.463 ppb

response 31771253

Manual Integration:

Before

03/17/21

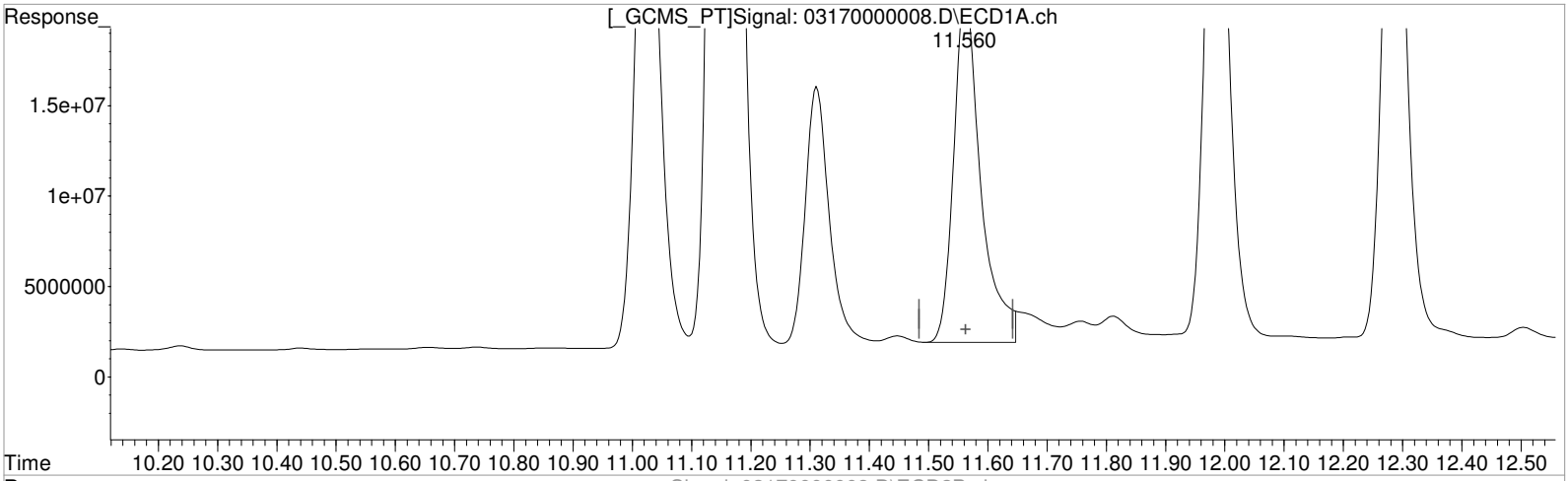
(+) = Expected Retention Time

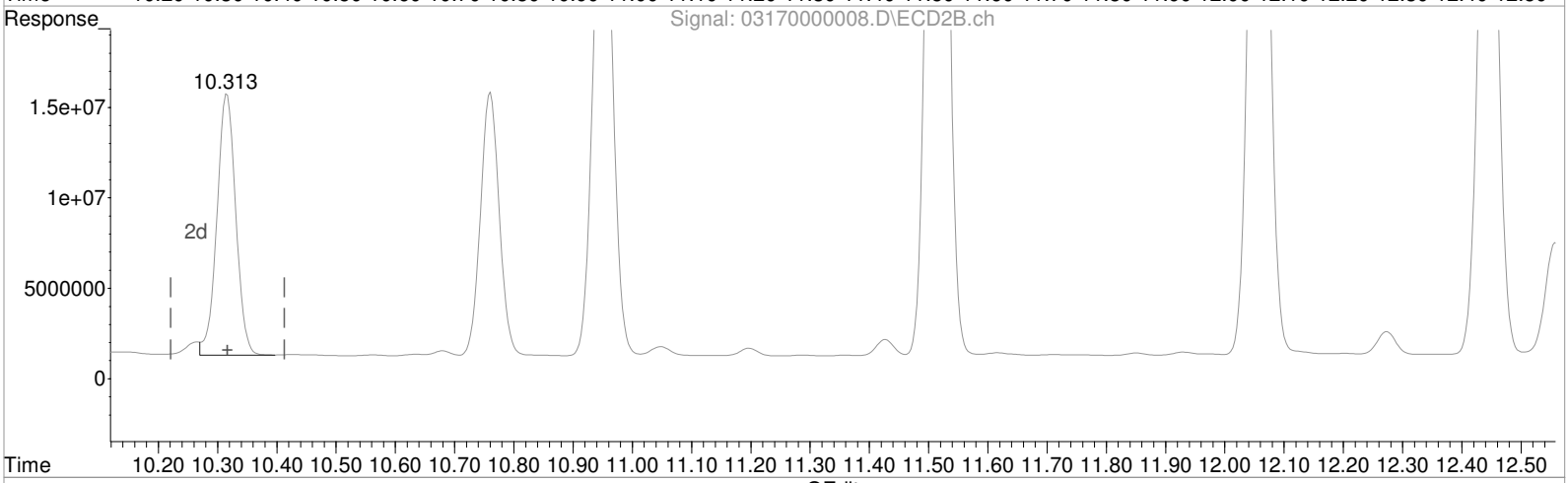
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000008.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:06:33 Operator: JTC
Sample : PENTA02-24L-100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:59:20 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 15:58:47 2021
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

(5) MCPA (m)

11.560min 8932.358 ppb m

response 61063353

Manual Integration:

After

Baseline/Shoulder

03/17/21

(5) MCPA #2 (m)

10.313min 9365.463 ppb

response 31771253

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000009.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:30:41 Operator: JTC
Sample : PENTA02-24M-125PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:03:59 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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...	11.023	9.490	118.1E6	40925938	110.453	112.314
		Target Compounds						
1)	m	Dalapon	5.693	4.847	113.3E6	53635970	117.546	121.073
3)	m	Dicamba	11.153	9.670	407.1E6	144.1E6	125.440	123.058
4)	m	MCPP	11.310	10.020	50459370	26070497	11952.293	12214.754
5)	m	MCPA	11.560	10.317	75699123	39770806	11347.725m	11723.554
6)	m	Dichloroprop	11.983	10.760	116.4E6	40990630	114.543	119.586
7)	m	2,4-D	12.283	10.950	120.6E6	86921919	111.481	119.046
8)	m	2,4,5-TP ...	13.353	11.513	539.7E6	179.7E6	118.274	124.963
9)	m	2,4,5-T	13.730	12.057	422.4E6	142.5E6	113.923	122.005
10)	m	2,4-DB	14.333	12.557	53499481	17504233	101.150	108.911
11)	m	Dinoseb	14.480	12.443	314.2E6	109.2E6	111.445	119.489

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

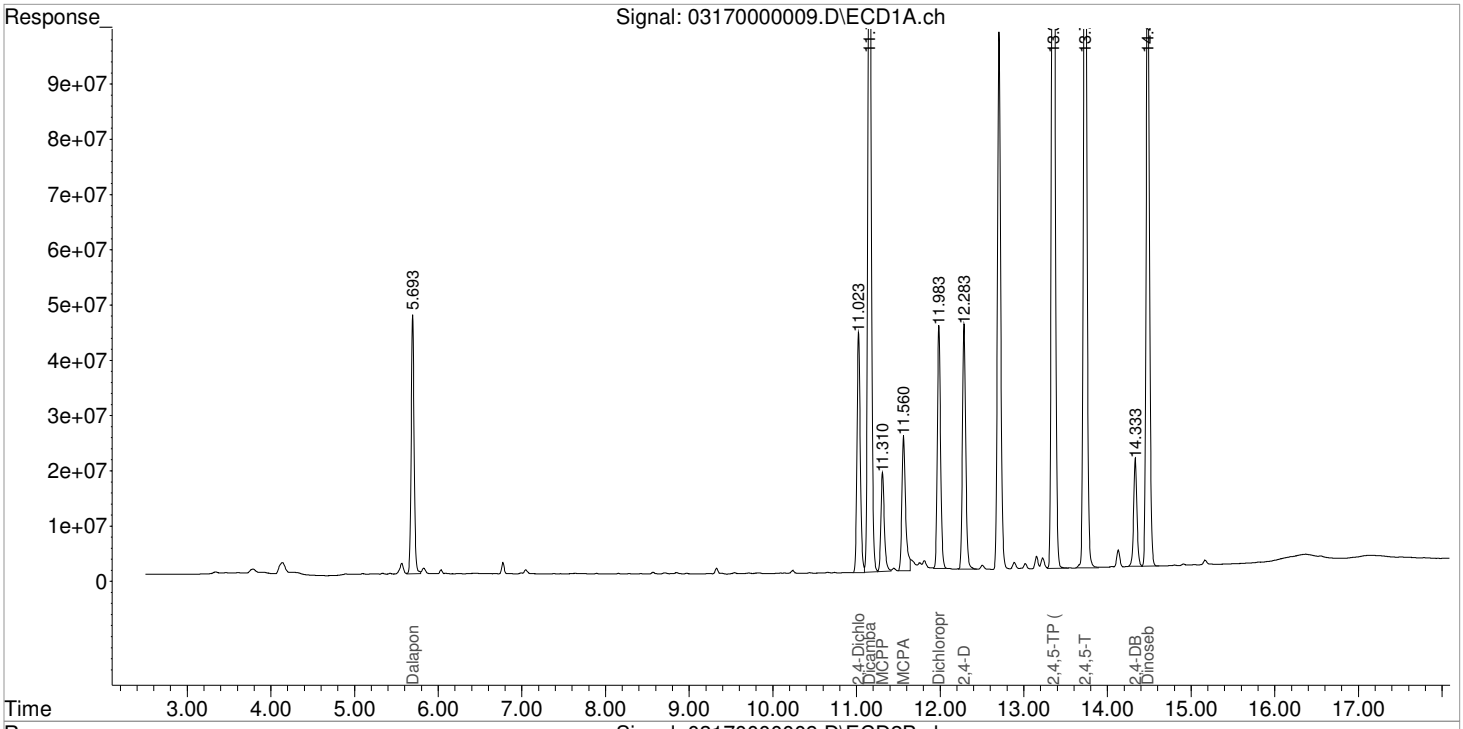
Quantitation Report (QT Reviewed)

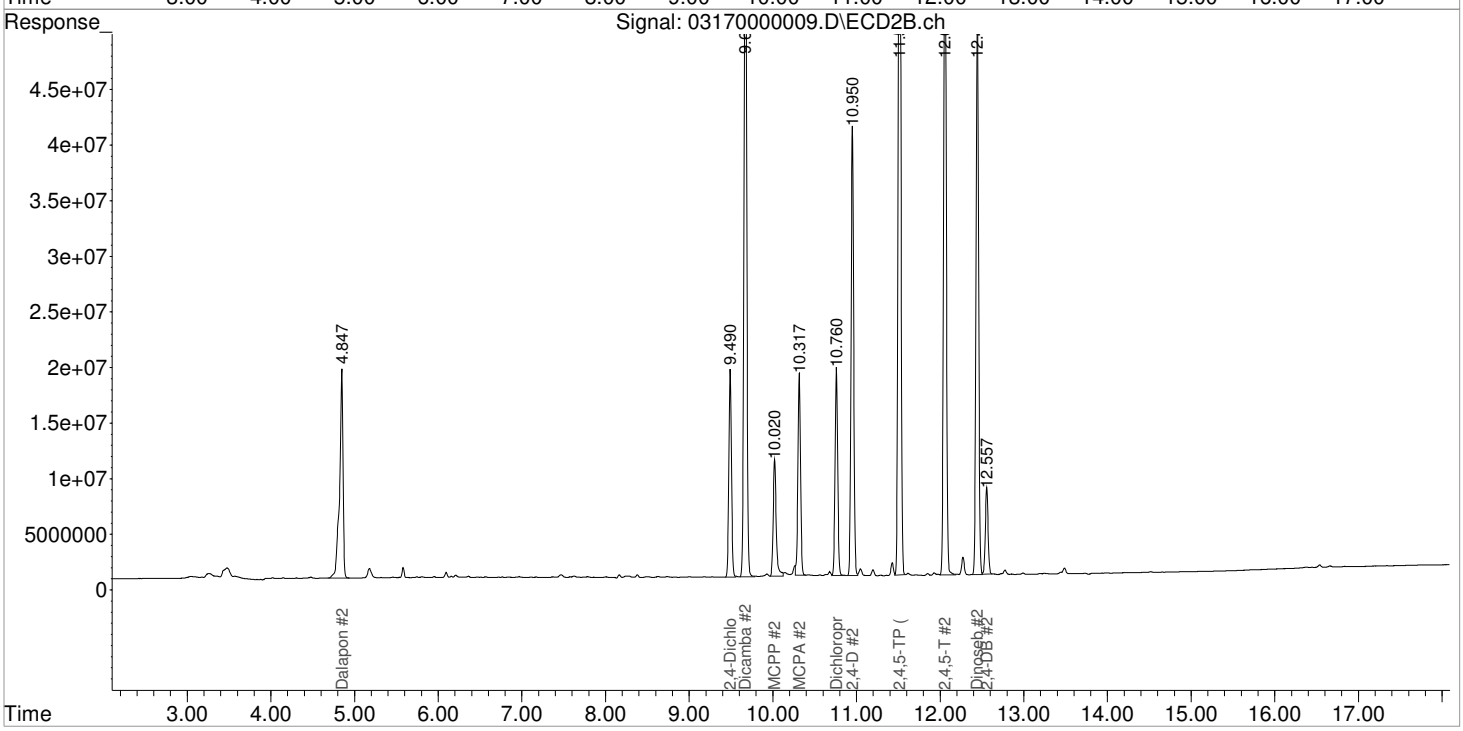
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000009.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:30:41 Operator: JTC
Sample : PENTA02-24M-125PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:03:59 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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





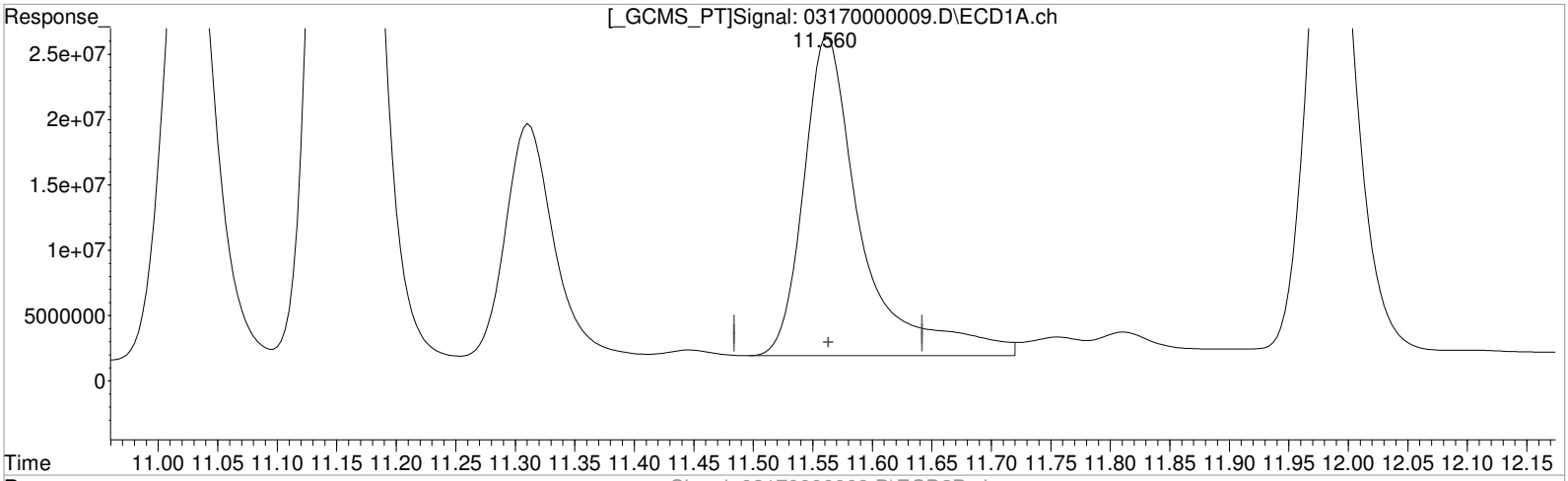
Quantitation Report (Qedit)

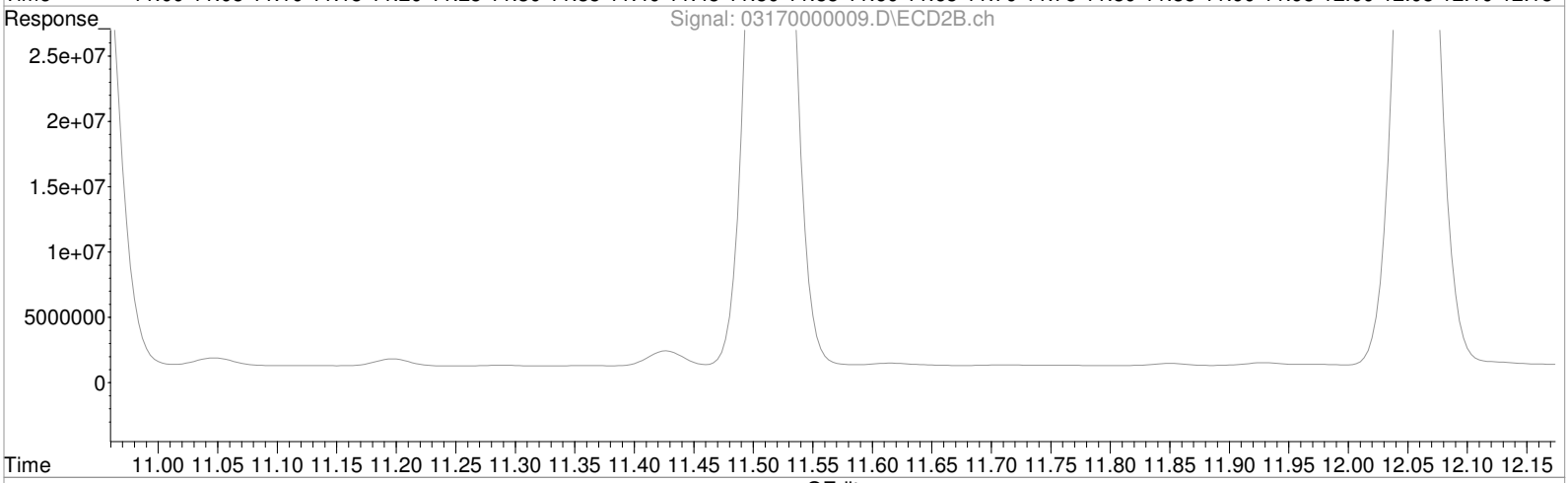
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000009.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:30:41 Operator: JTC
Sample : PENTA02-24M-125PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:03 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(5) MCPA (m)

11.560min 12513.329 ppb

response 82634268

(5) MCPA #2 (m)

10.317min 11723.554 ppb

response 39770806

Manual Integration:

Before

03/17/21

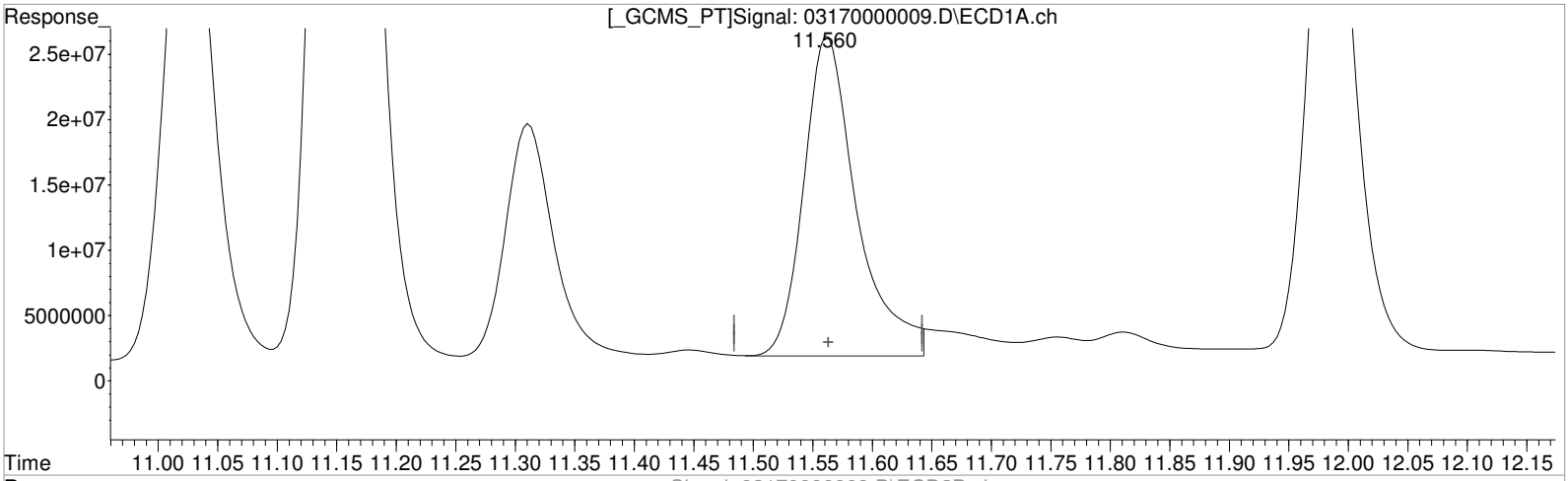
(+) = Expected Retention Time

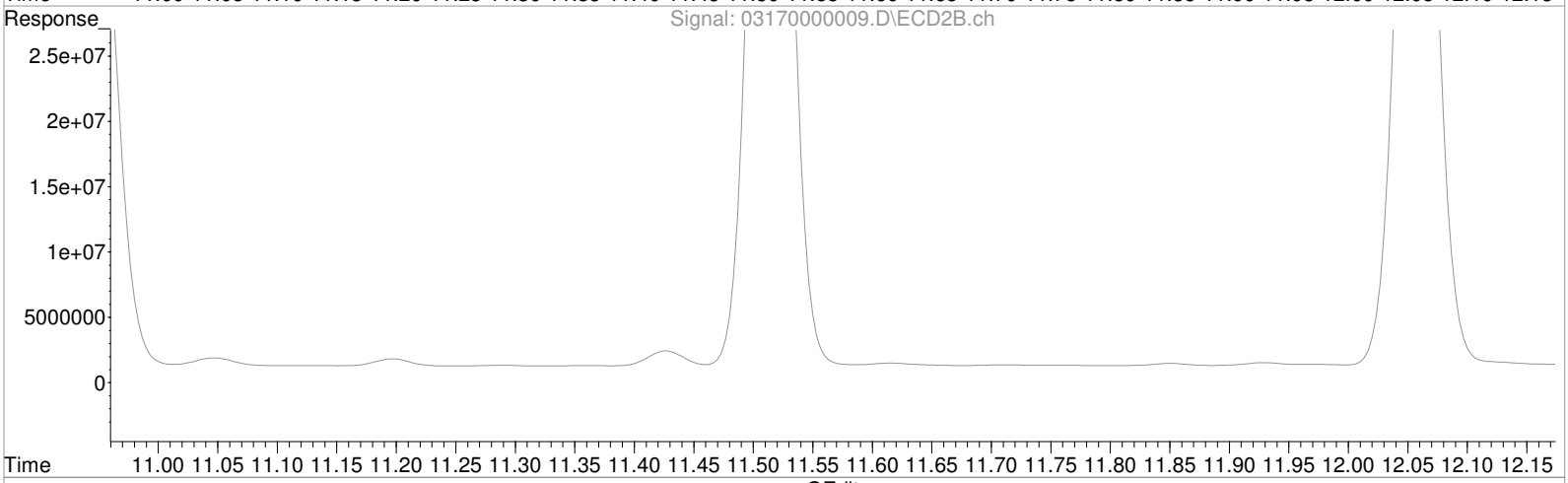
1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000009.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:30:41 Operator: JTC
Sample : PENTA02-24M-125PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:03 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(5) MCPA (m)

11.560min 11347.725 ppb m

response 75699123

(5) MCPA #2 (m)

10.317min 11723.554 ppb

response 39770806

Manual Integration:

After

Baseline/Shoulder

03/17/21

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:54:44 Operator: JTC
Sample : PENTA02-24N-150PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:04:37 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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...	11.027	9.490	138.9E6	48104860	129.944	132.015
		Target Compounds						
1)	m	Dalapon	5.693	4.847	133.2E6	63089987	138.235	142.414
3)	m	Dicamba	11.153	9.673	480.6E6	171.1E6	148.059	146.071
4)	m	MCPP	11.310	10.020	58703701	29997246	14036.657	14432.166
5)	m	MCPA	11.563	10.313	88508014	46549894	13511.656m	13721.880
6)	m	Dichloroprop	11.987	10.760	138.0E6	48576498	135.762	141.717
7)	m	2,4-D	12.283	10.950	144.2E6	102.4E6	133.232	140.183
8)	m	2,4,5-TP ...	13.353	11.513	643.8E6	212.1E6	141.079	147.481
9)	m	2,4,5-T	13.733	12.057	508.1E6	169.4E6	137.046	145.021
10)	m	2,4-DB	14.333	12.557	64188667	20699665	121.360	128.792
11)	m	Dinoseb	14.483	12.443	375.1E6	129.0E6	133.052	141.107

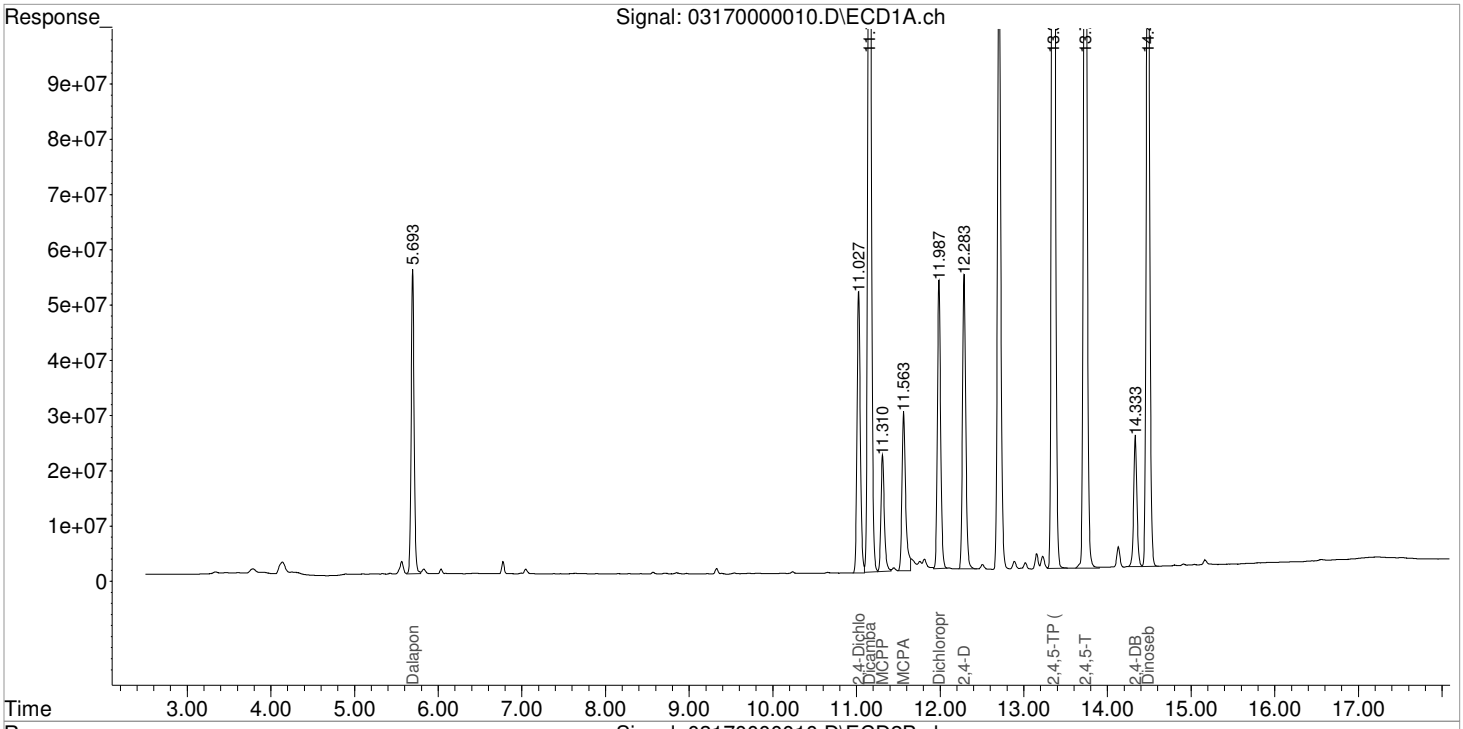
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

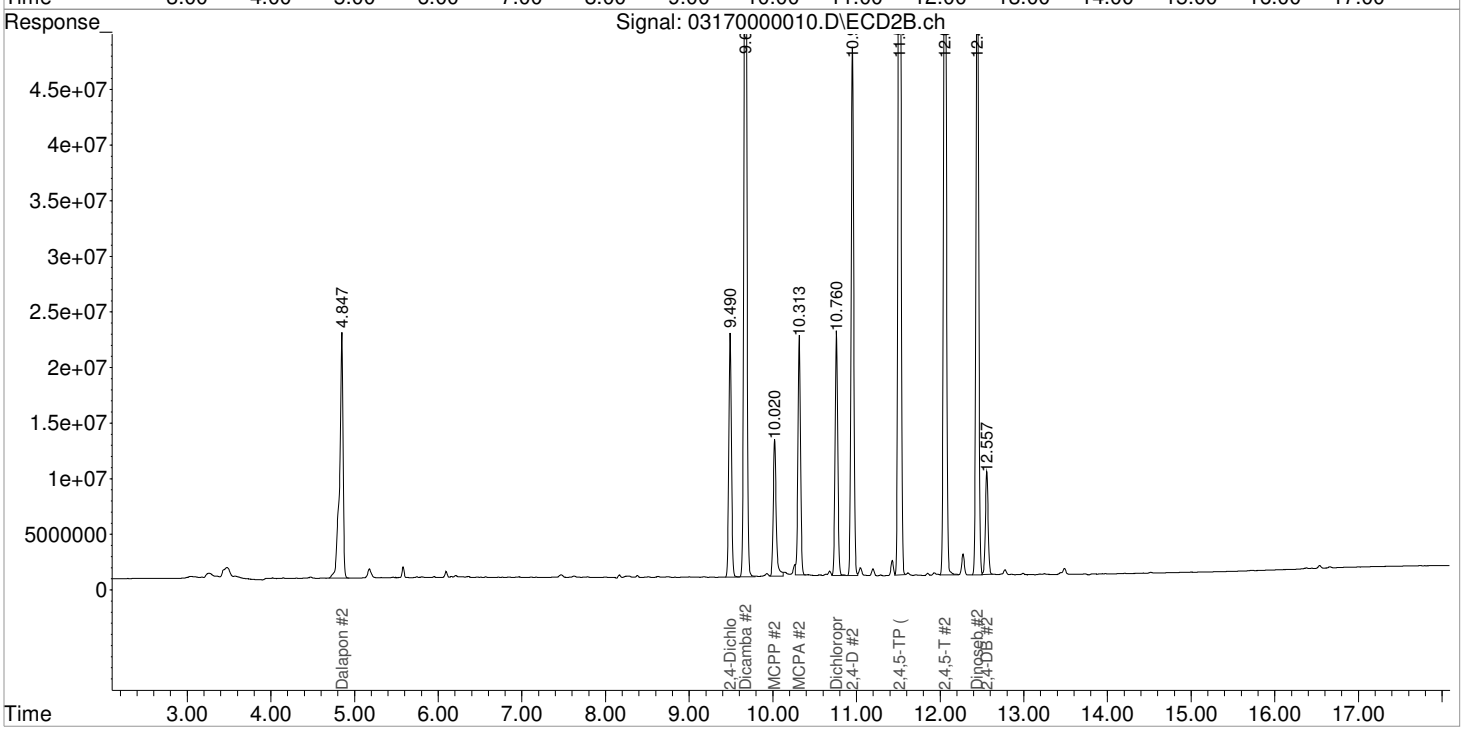
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:54:44 Operator: JTC
Sample : PENTA02-24N-150PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:04:37 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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



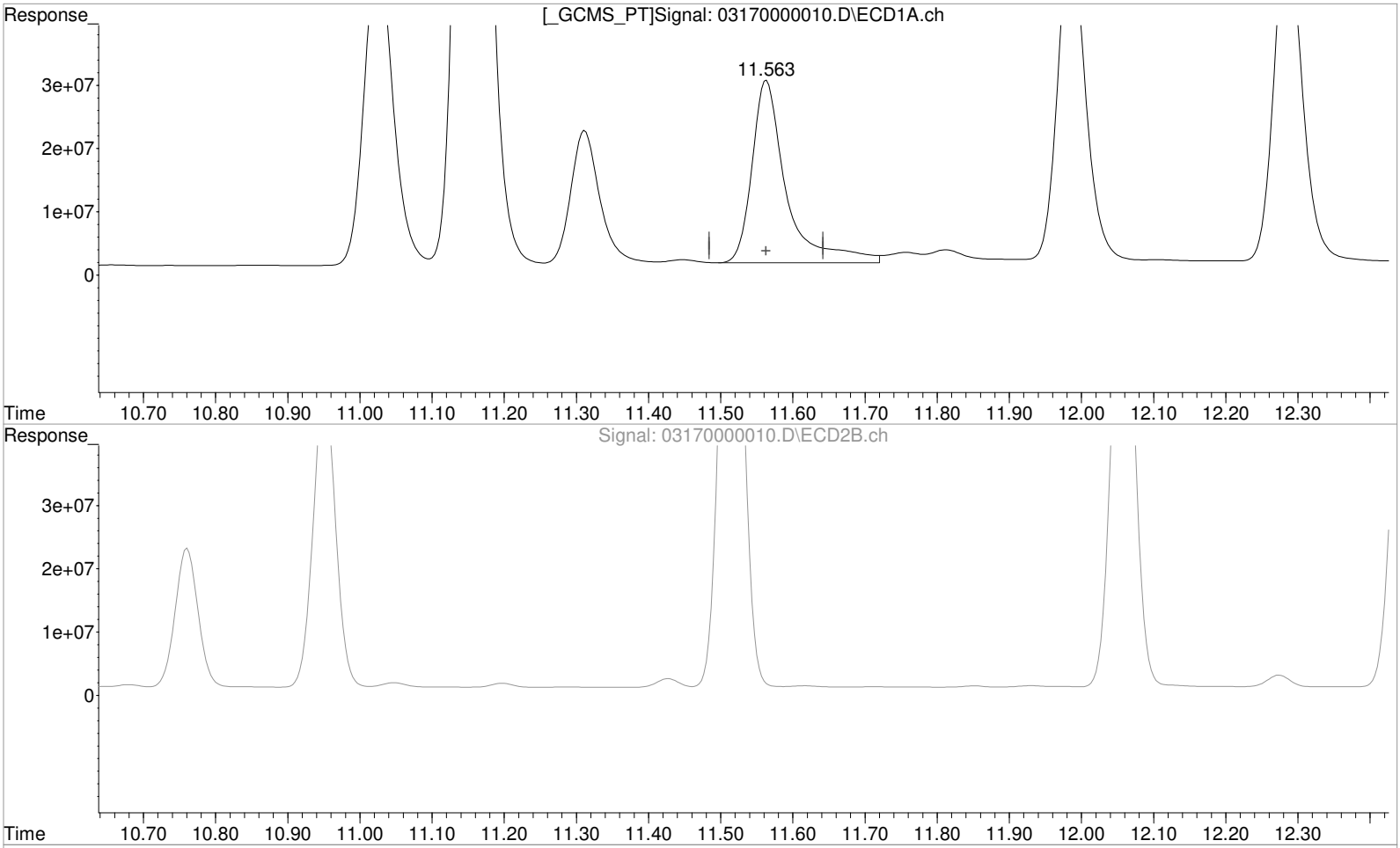


1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:54:44 Operator: JTC
Sample : PENTA02-24N-150PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:07 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(5) MCPA (m)

11.563min 14712.862 ppb

response 95494552

Manual Integration:

Before

03/17/21

(5) MCPA #2 (m)

10.313min 13721.880 ppb

response 46549894

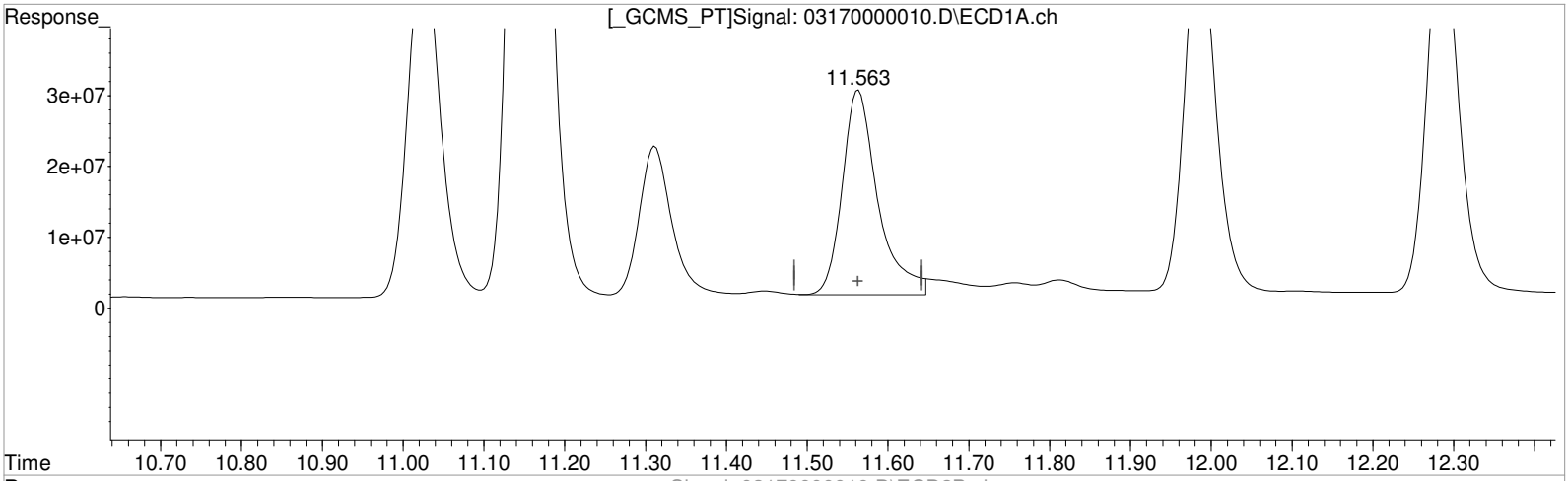
(+) = Expected Retention Time

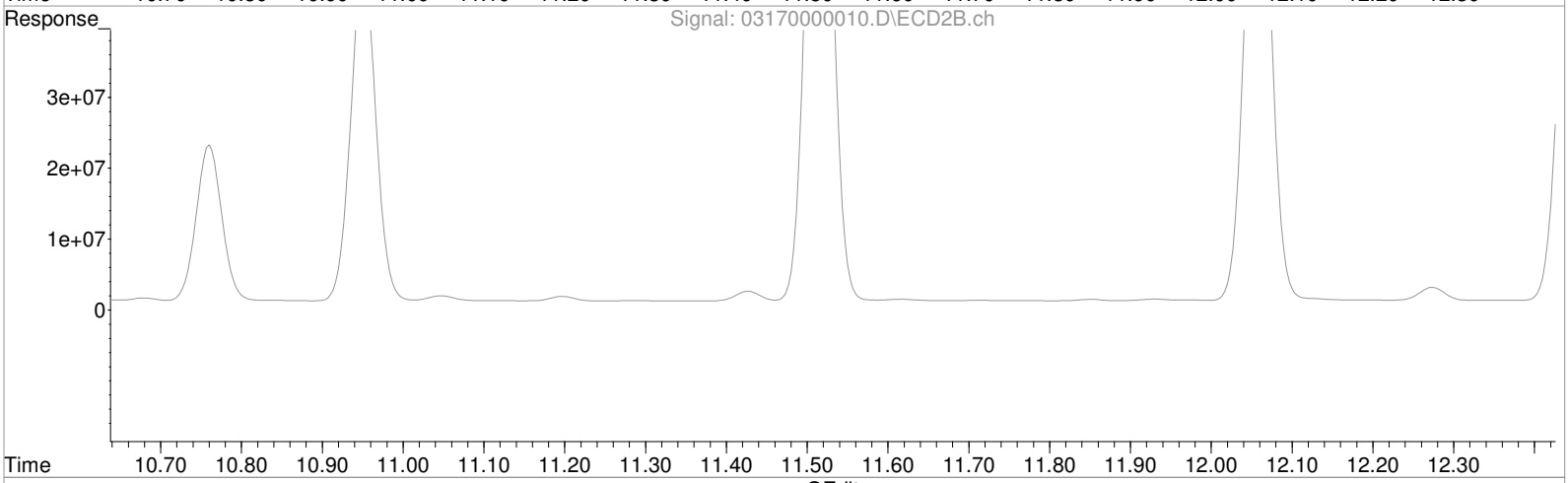
1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:54:44 Operator: JTC
Sample : PENTA02-24N-150PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:07 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(5) MCPA (m)

11.563min 13511.656 ppb m

response 88508014

Manual Integration:

After

Baseline/Shoulder

03/17/21

(5) MCPA #2 (m)

10.313min 13721.880 ppb

response 46549894

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000011.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:18:48 Operator: JTC
Sample : PENTA02-25A-175PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:05:16 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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...	11.023	9.490	161.7E6	56529267	151.216	155.134
		Target Compounds						
1)	m	Dalapon	5.693	4.850	155.7E6	73835540	161.507	166.670
3)	m	Dicamba	11.153	9.673	557.6E6	203.4E6	171.801	173.640
4)	m	MCPP	11.310	10.020	67518680	34762410	16275.406	17262.994
5)	m	MCPA	11.563	10.317	102.6E6	54679974	15957.589m	16118.447
6)	m	Dichloroprop	11.983	10.760	160.5E6	57627620	157.908	168.122
7)	m	2,4-D	12.287	10.950	171.4E6	120.6E6	158.382	165.223
8)	m	2,4,5-TP ...	13.353	11.513	762.1E6	250.9E6	167.000	174.466
9)	m	2,4,5-T	13.733	12.057	612.4E6	201.5E6	165.167	172.475
10)	m	2,4-DB	14.330	12.557	77920613	24574967	147.322	152.904
11)	m	Dinoseb	14.480	12.443	449.1E6	153.1E6	159.282	167.456

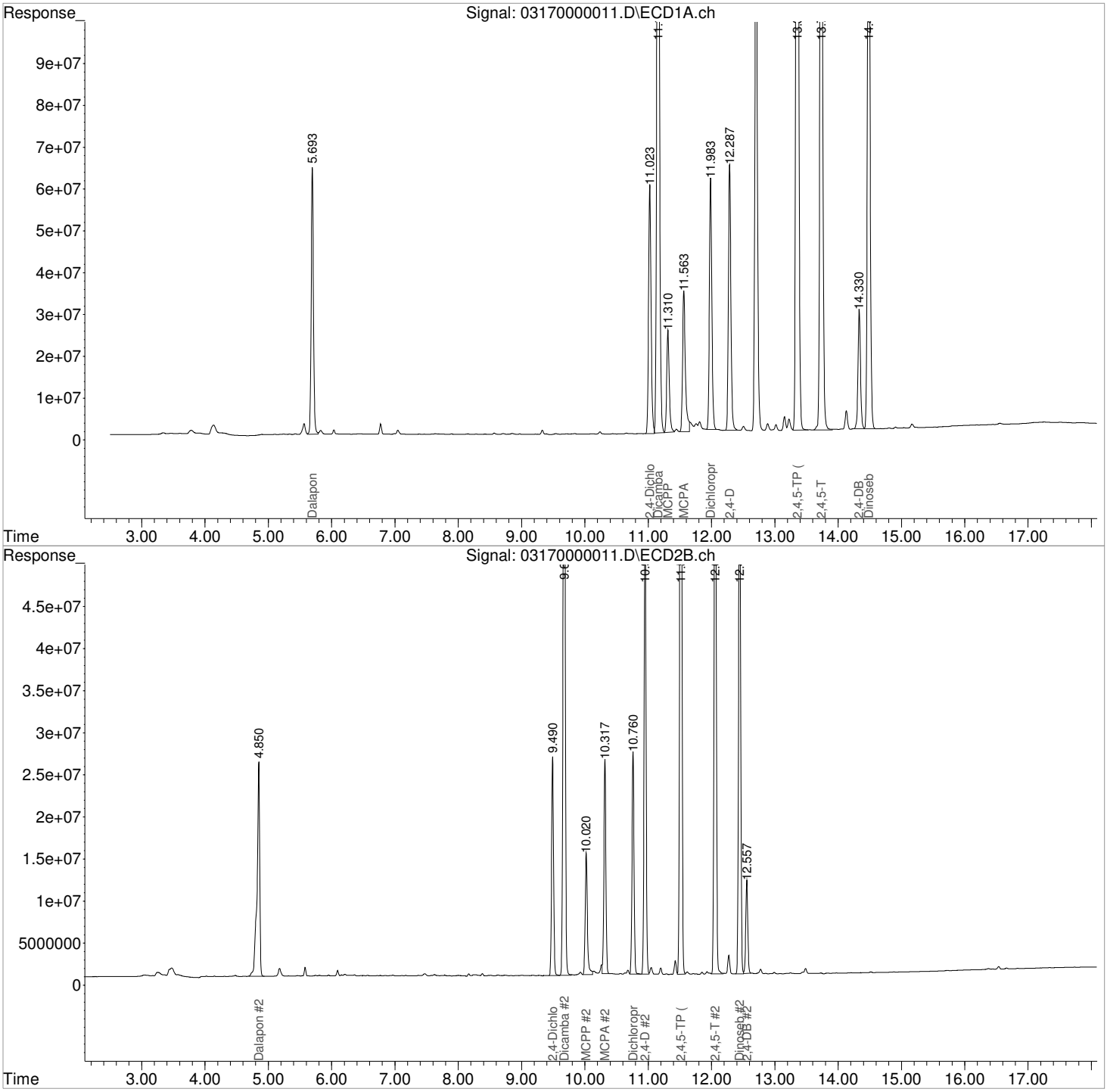
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000011.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:18:48 Operator: JTC
Sample : PENTA02-25A-175PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:05:16 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

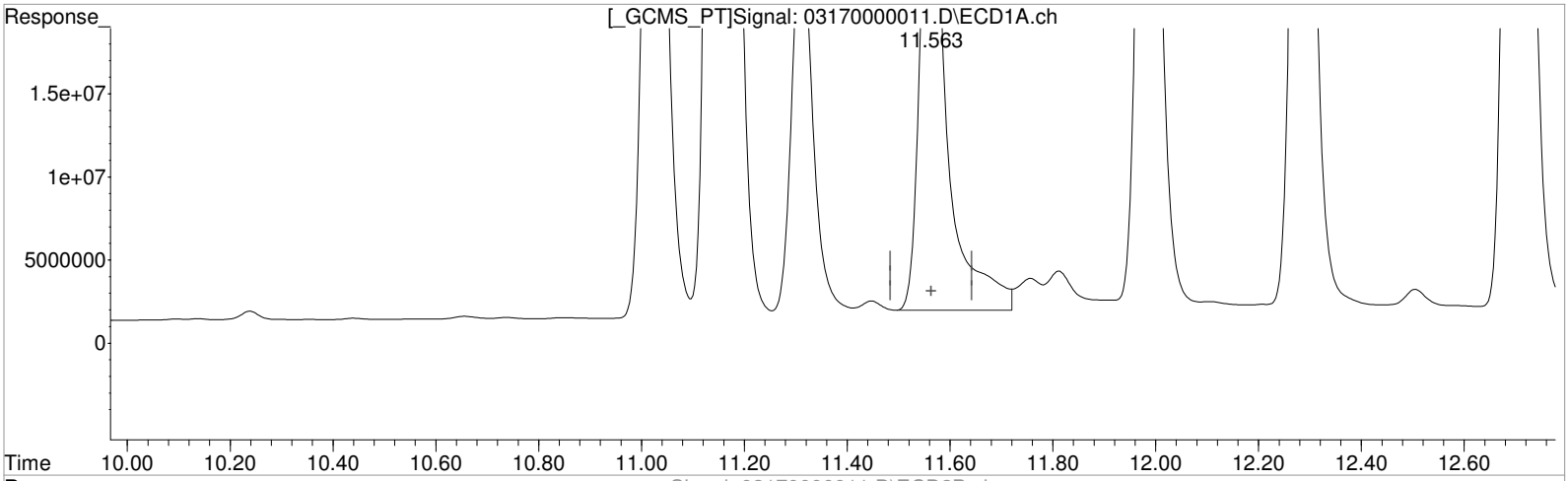


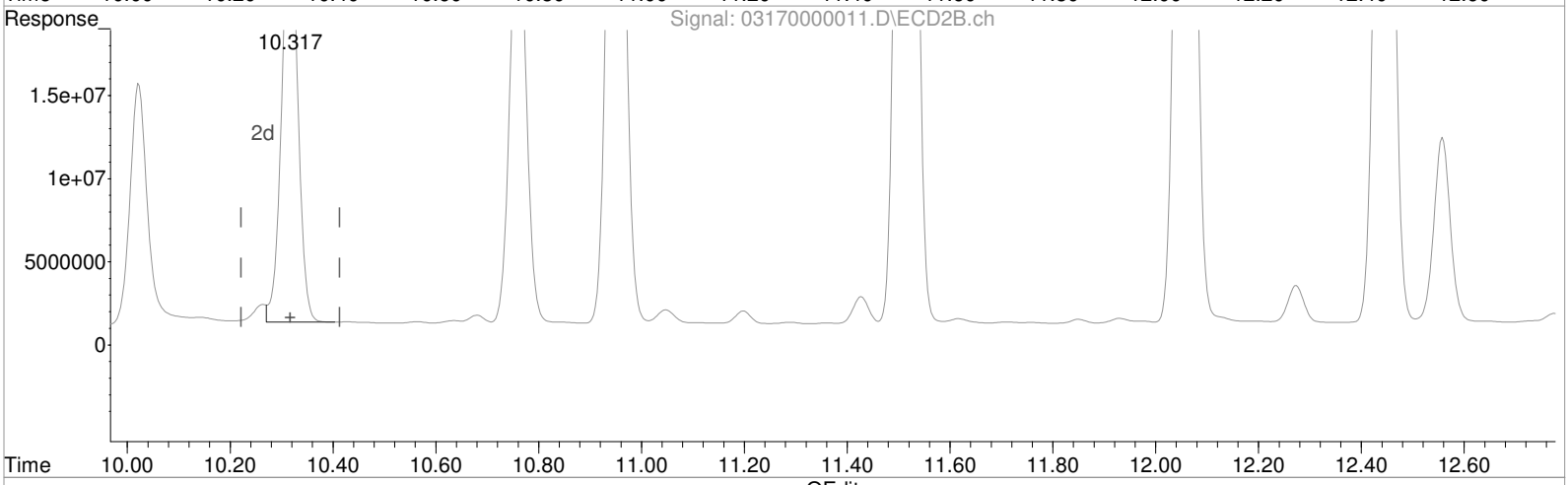
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000011.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:18:48 Operator: JTC
Sample : PENTA02-25A-175PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:10 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(5) MCPA (m)

11.563min 17207.454 ppb

response 109721555

(5) MCPA #2 (m)

10.317min 16118.447 ppb

response 54679974

Manual Integration:

Before

03/17/21

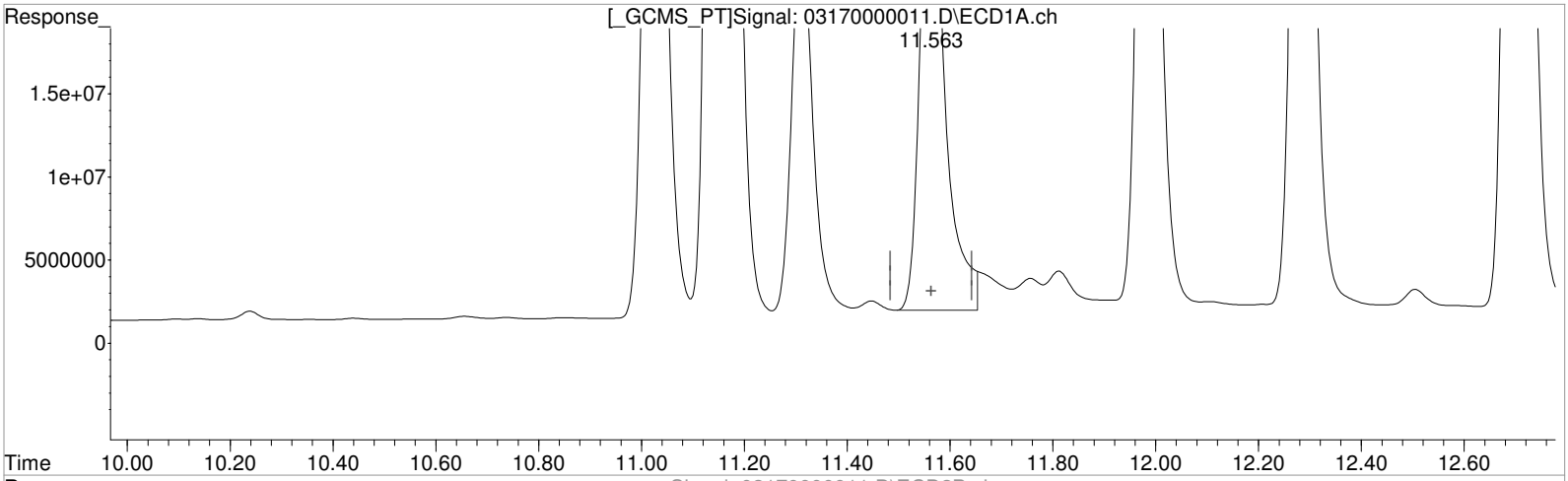
(+) = Expected Retention Time

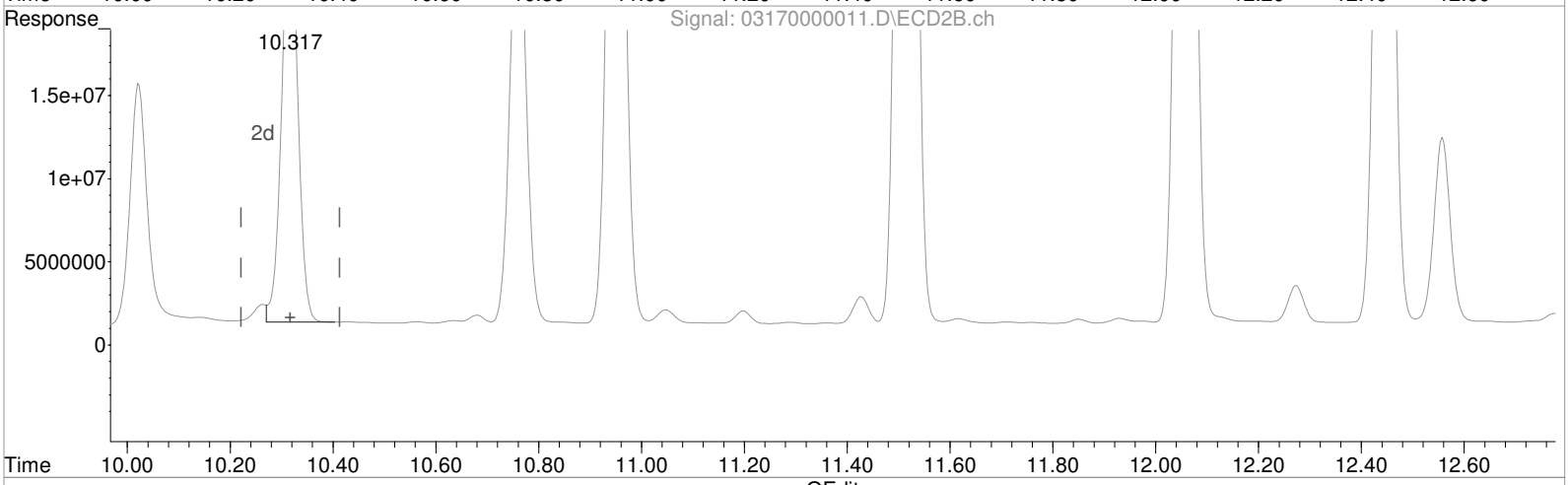
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000011.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:18:48 Operator: JTC
Sample : PENTA02-25A-175PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:10 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(5) MCPA (m)

11.563min 15957.589 ppb m

response 102641020

Manual Integration:

After

Baseline/Shoulder

03/17/21

(5) MCPA #2 (m)

10.317min 16118.447 ppb

response 54679974

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000012.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:42:52 Operator: JTC
Sample : PENTA02-25B-200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:05:53 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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...	11.027	9.490	189.0E6	65625124	176.796	180.096
		Target Compounds						
1)	m	Dalapon	5.693	4.847	182.3E6	86760882	189.090	195.846
3)	m	Dicamba	11.157	9.673	653.9E6	238.7E6	201.462	203.773
4)	m	MCPP	11.310	10.020	77331593	40032007	18780.069	20606.166
5)	m	MCPA	11.563	10.317	118.1E6	63469315	18707.832m	18709.351
6)	m	Dichloroprop	11.987	10.760	187.9E6	67445860	184.783	196.766
7)	m	2,4-D	12.287	10.950	201.8E6	141.0E6	186.469	193.089
8)	m	2,4,5-TP ...	13.353	11.517	894.0E6	293.4E6	195.908	204.057
9)	m	2,4,5-T	13.733	12.057	719.9E6	237.1E6	194.151	202.981
10)	m	2,4-DB	14.333	12.557	91657401	28756131	173.294	178.920
11)	m	Dinoseb	14.483	12.443	525.2E6	178.6E6	186.299	195.360

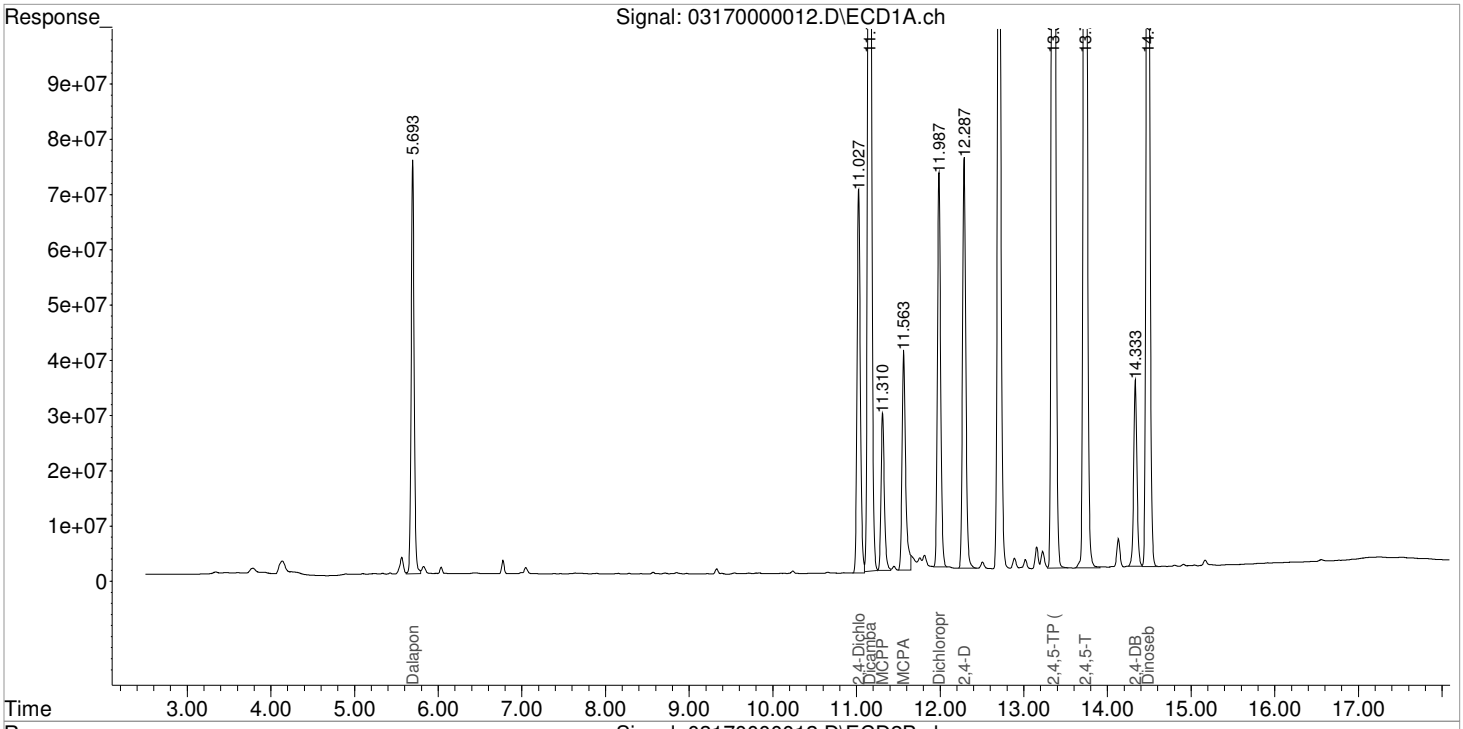
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

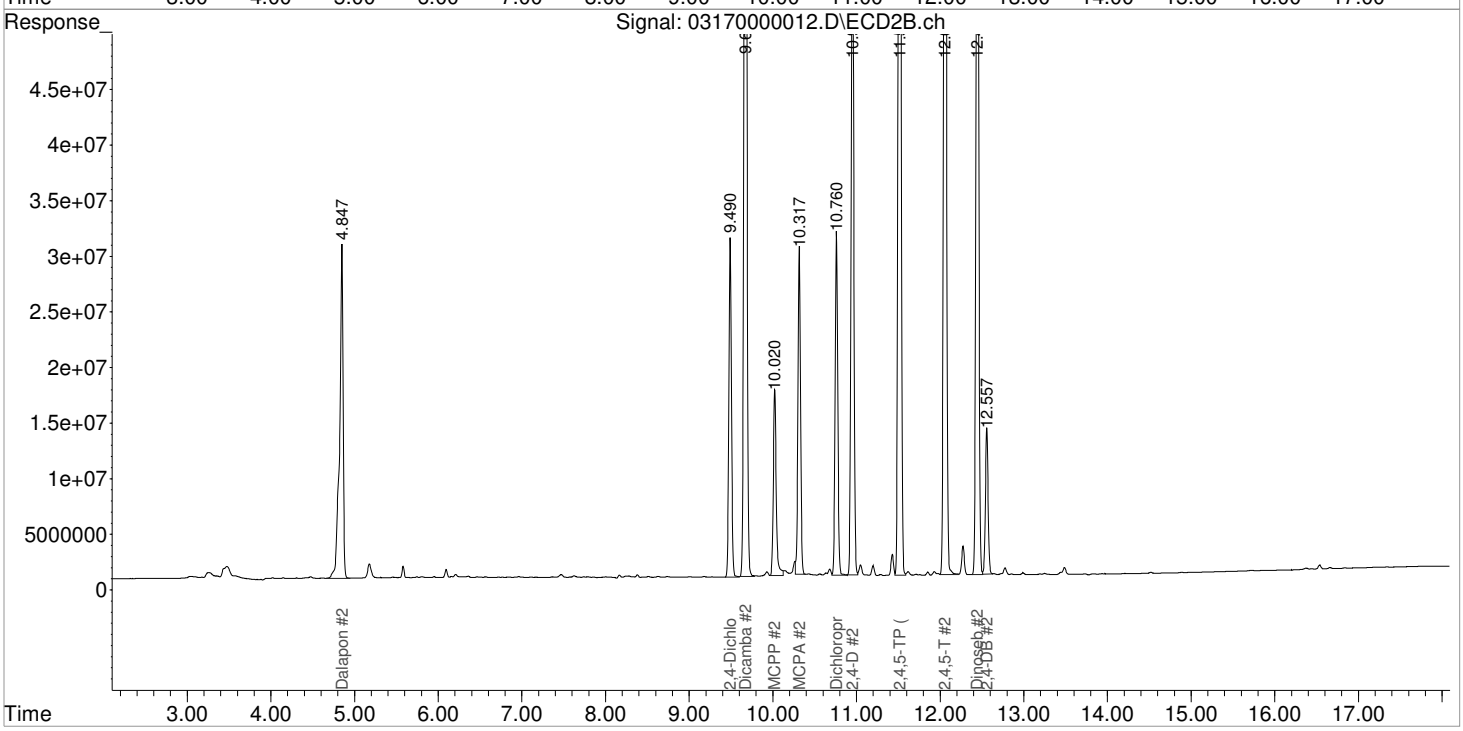
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000012.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:42:52 Operator: JTC
Sample : PENTA02-25B-200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:05:53 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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



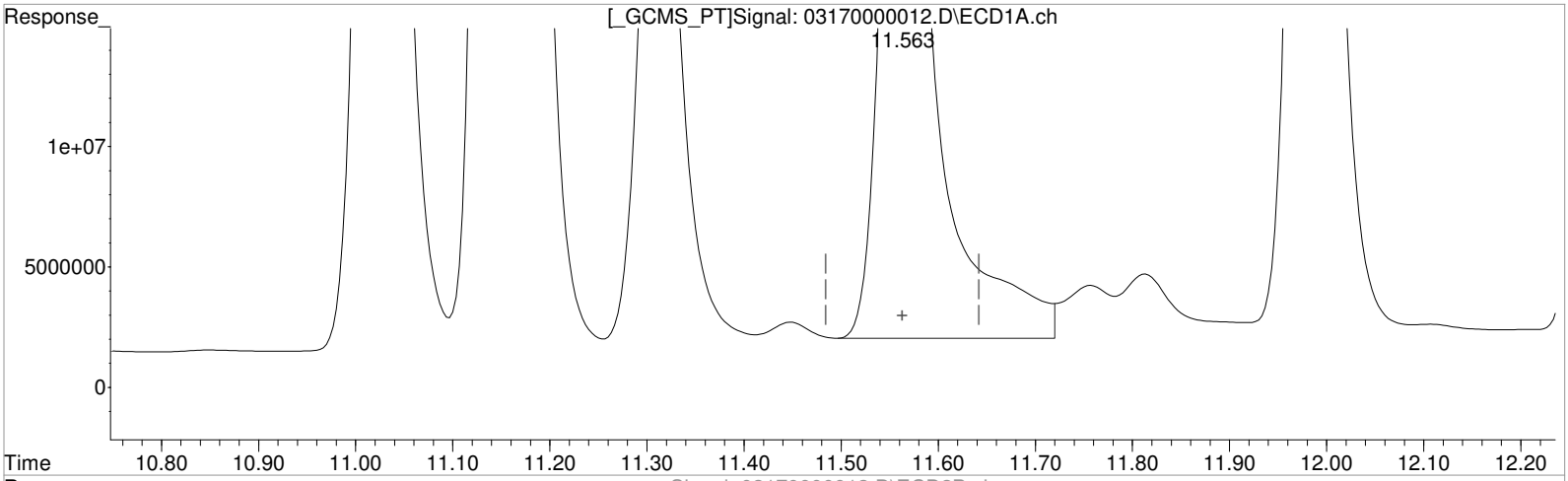


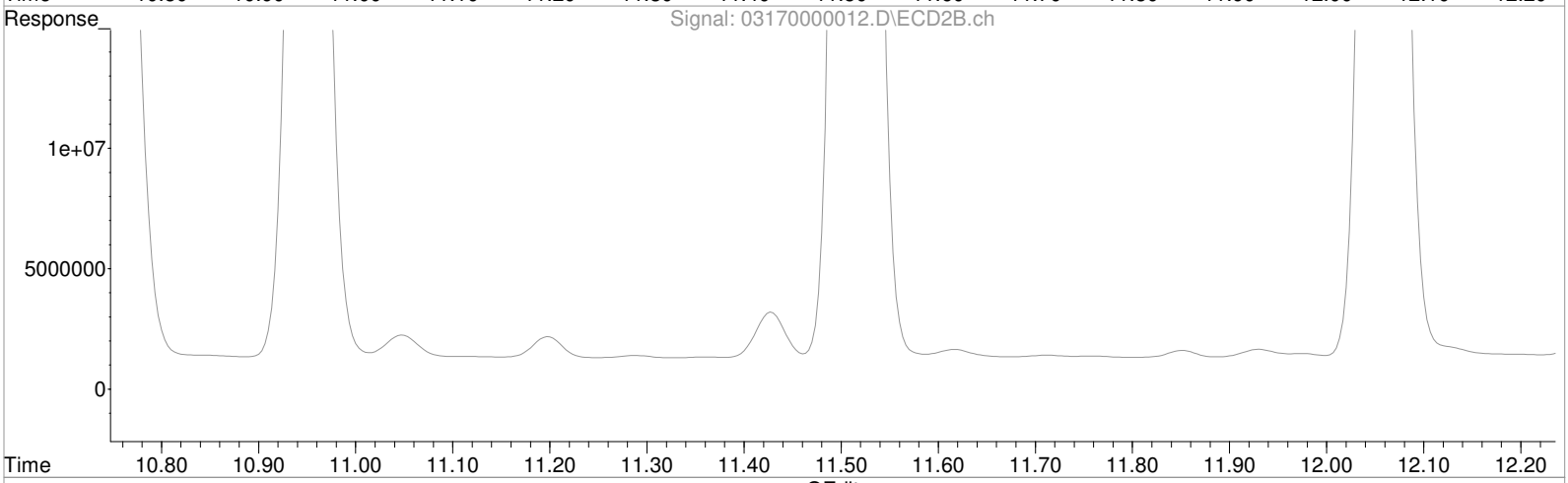
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000012.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:42:52 Operator: JTC
Sample : PENTA02-25B-200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:12 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(5) MCPA (m)

11.563min 20234.310 ppb

response 126472577

(5) MCPA #2 (m)

10.317min 18709.351 ppb

response 63469315

Manual Integration:

Before

03/17/21

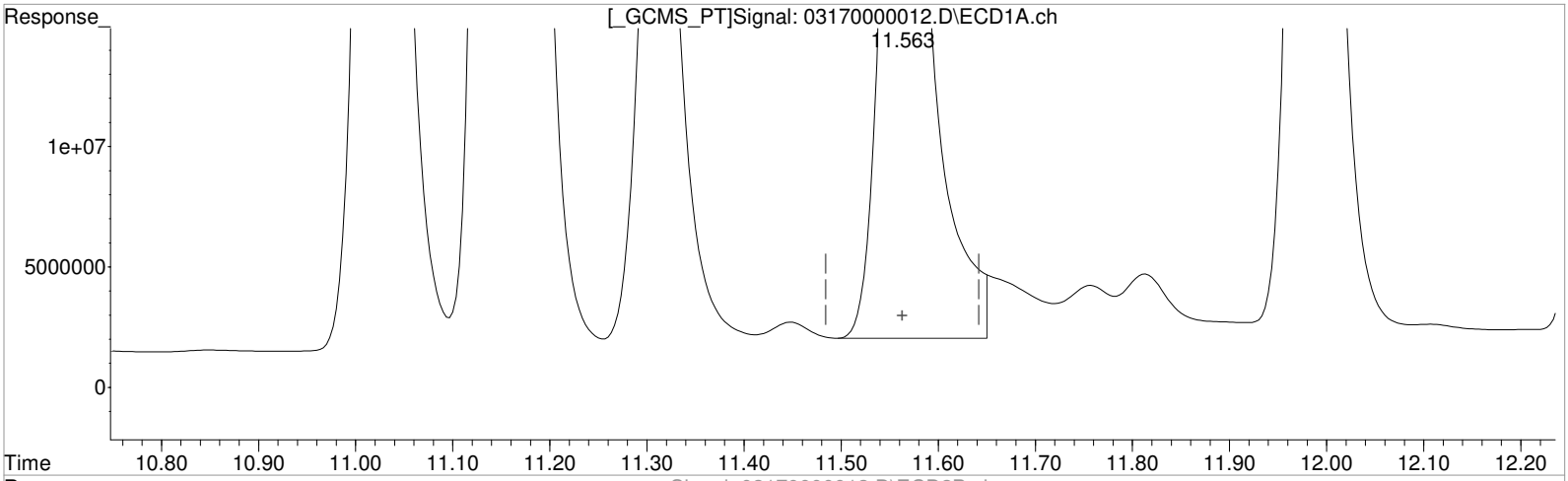
(+) = Expected Retention Time

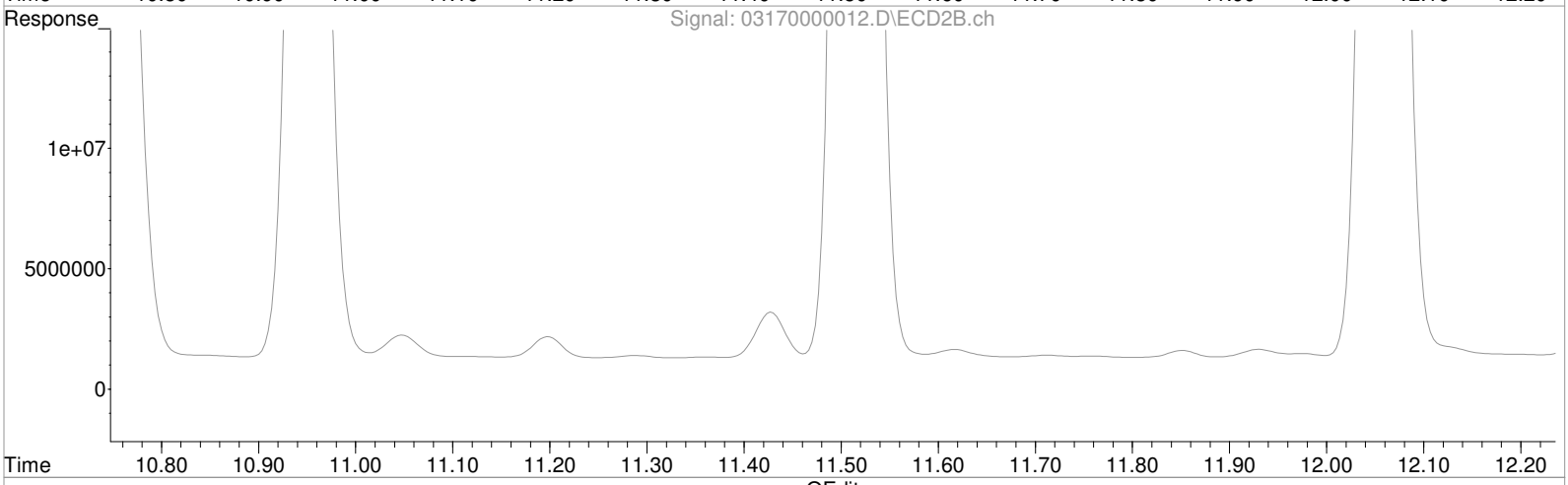
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000012.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:42:52 Operator: JTC
Sample : PENTA02-25B-200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:12 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
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

(5) MCPA (m)

11.563min 18707.832 ppb m

response 118094950

(5) MCPA #2 (m)

10.317min 18709.351 ppb

response 63469315

Manual Integration:

After

Baseline/Shoulder

03/17/21

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:54:55 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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	4.850	92118184	44156847	94.188	93.039
3)	m	Dicamba	11.157	9.673	330.3E6	118.0E6	100.464	98.301
4)	m	MCPP	11.310	10.020	40950119	21594461	8999.133	9658.931
5)	m	MCPA	11.563	10.317	60754998	29586385	8898.070m	8400.855
6)	m	Dichloroprop	11.987	10.760	84467608	29190394	88.779	83.855
7)	m	2,4-D	12.283	0.000	84327872	0	86.228	N.D. d#
8)	m	2,4,5-TP ...	13.353	11.513	404.0E6	134.3E6	94.174	91.794
9)	m	2,4,5-T	13.733	12.057	334.7E6	109.9E6	99.263	95.478
10)	m	2,4-DB	14.333	12.557	41214145	13843914	94.433	92.630
11)	m	Dinoseb	14.483	12.443	249.8E6	87143515	96.547	94.427

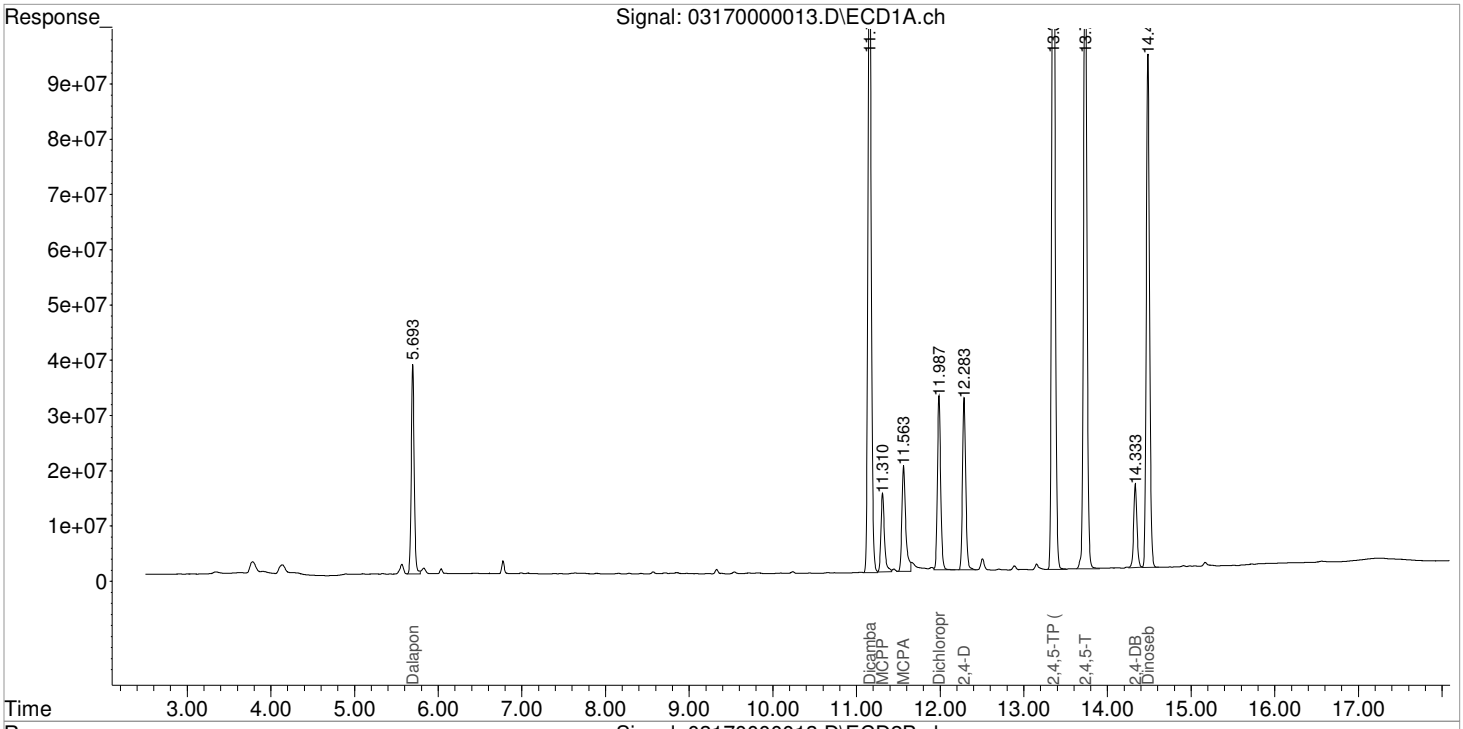
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

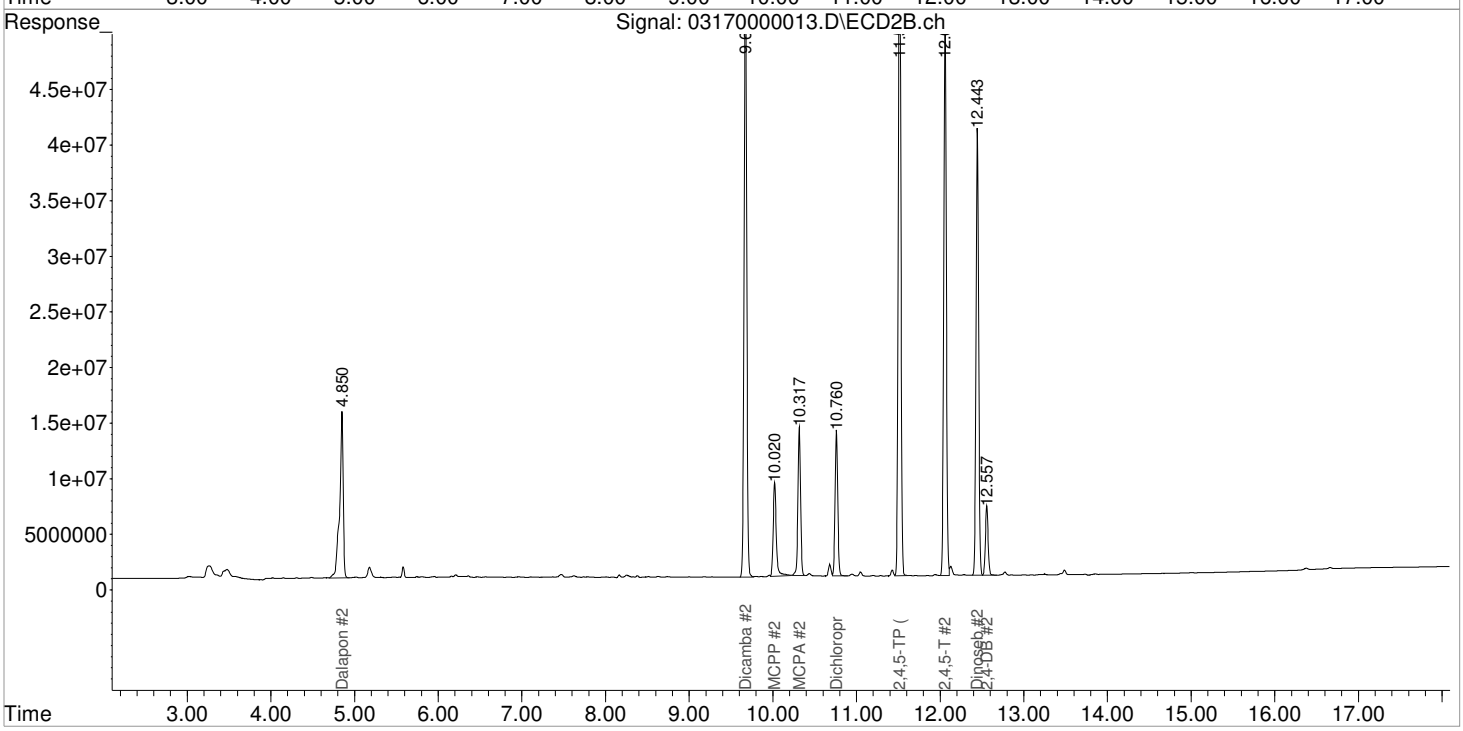
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:54:55 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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



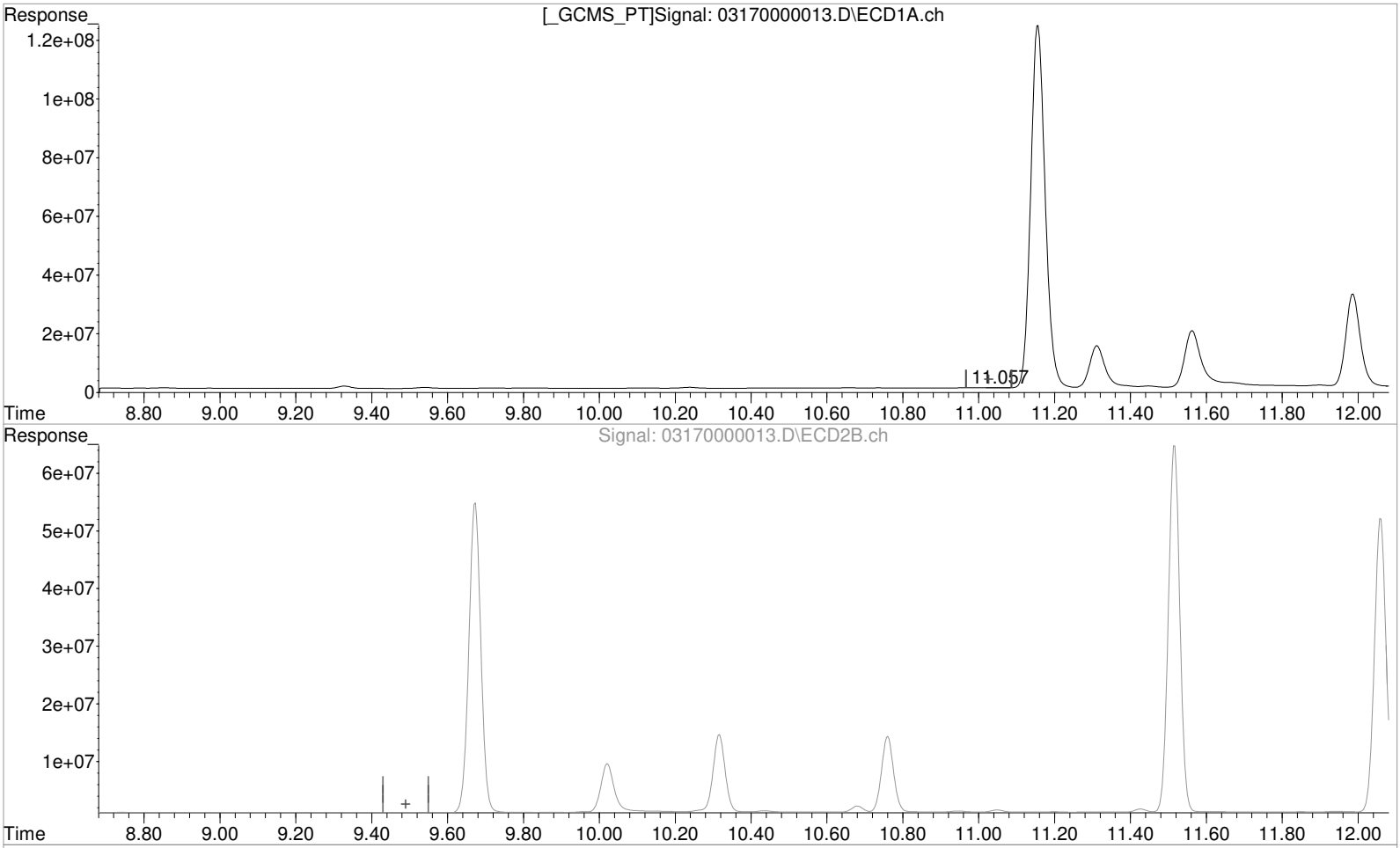


1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:18:37 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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



(2) 2,4-Dichlorophenylacetic Acid (s)

11.057min 0.116 ppb

response 119469

Manual Integration:

Before

03/17/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

0.000min 0.000 ppb

response 0

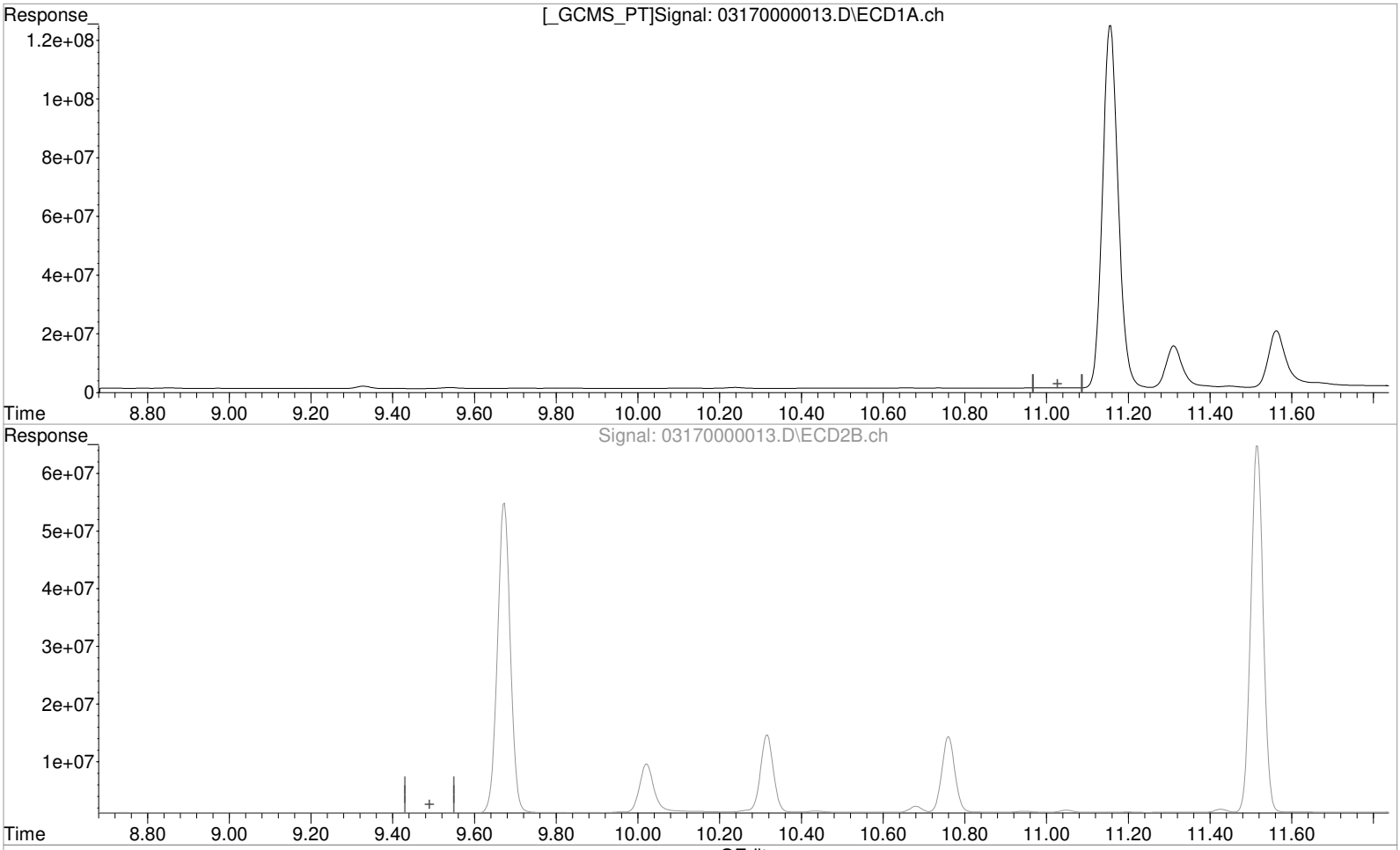
(+) = Expected Retention Time

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:19:59 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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

(2) 2,4-Dichlorophenylacetic Acid (s)

0.000min 0.000 ppb d

response 0

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

0.000min 0.000 ppb d

response 0

Manual Integration:

After

No surrogate

03/17/21

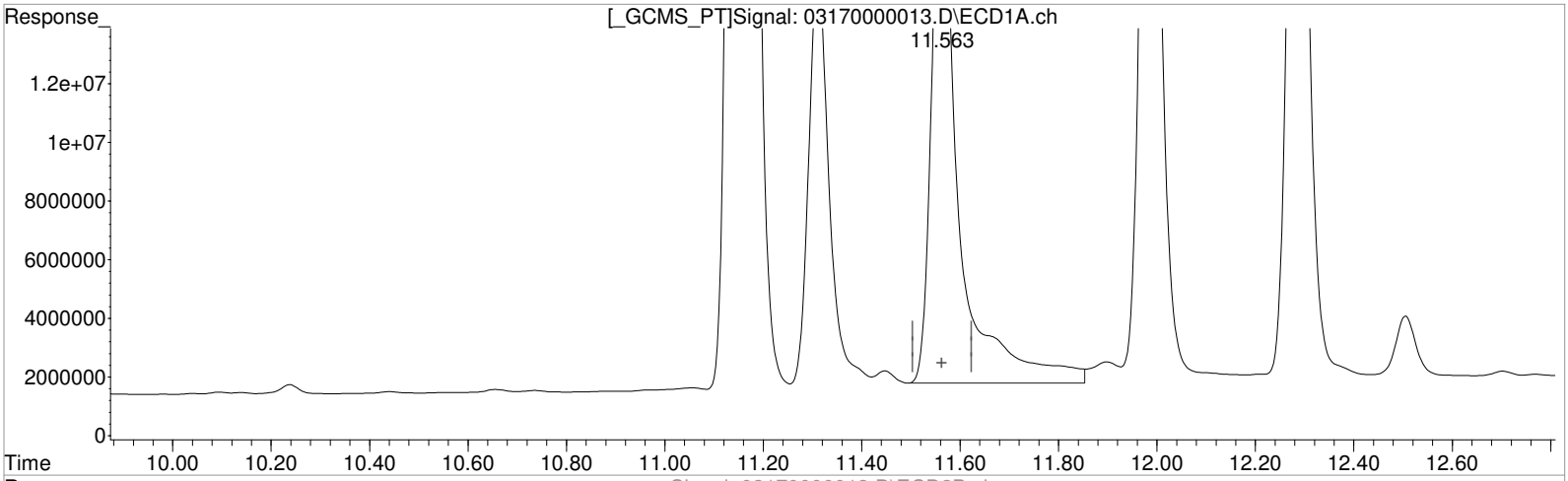
(+) = Expected Retention Time

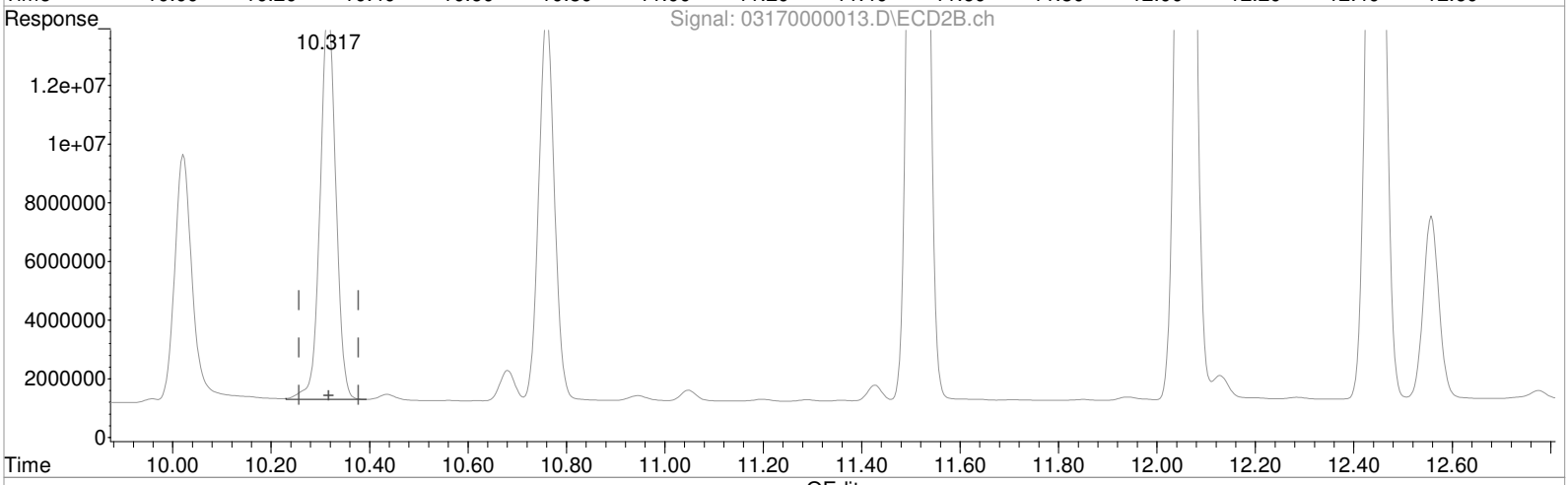
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:18:37 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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

(5) MCPA (m)

11.563min 10394.438 ppb

response 70972025

(5) MCPA #2 (m)

10.317min 8400.855 ppb

response 29586385

Manual Integration:

Before

03/17/21

(+) = Expected Retention Time

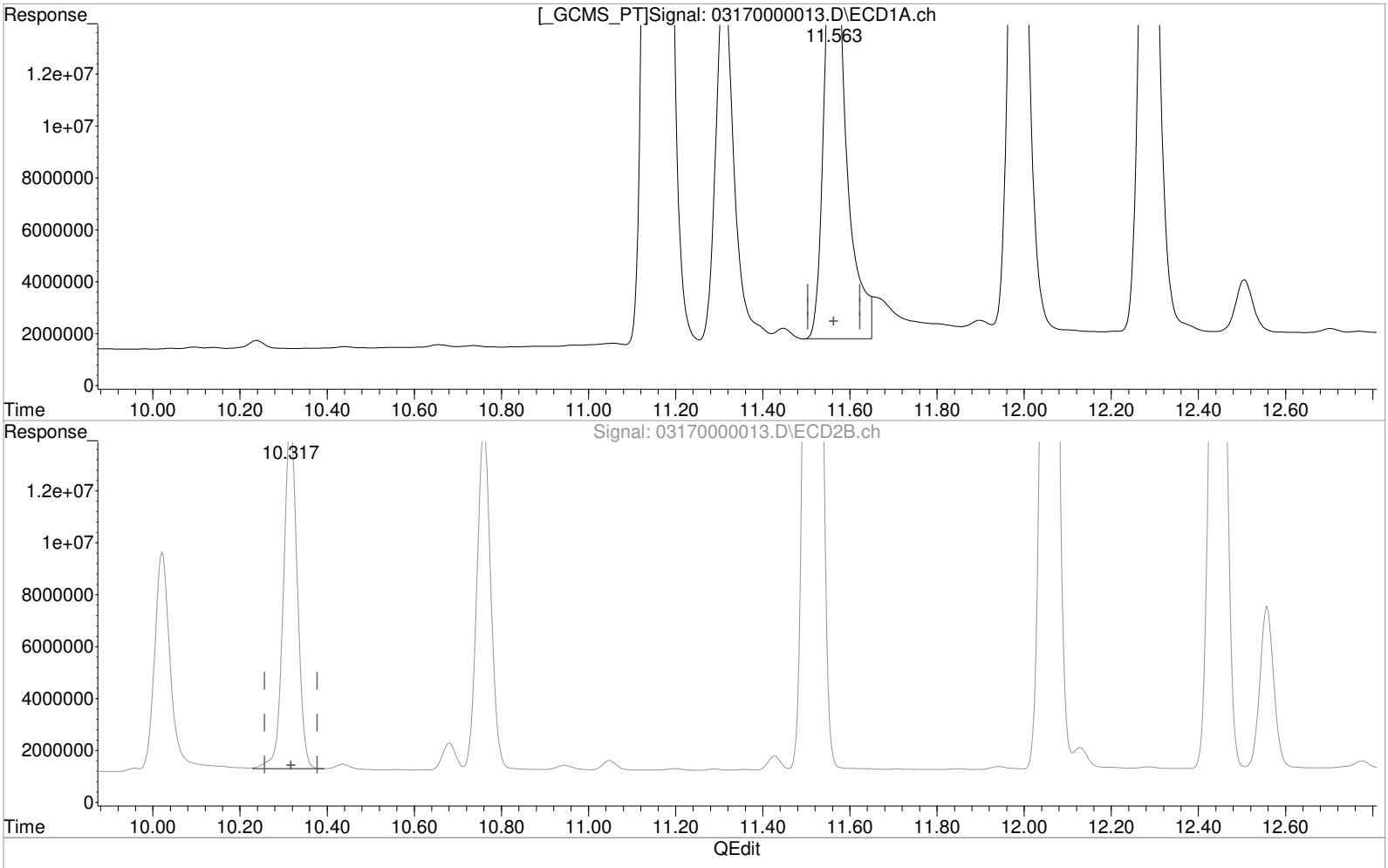
Quantitation Report (Qedit)

1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:18:37 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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

(5) MCPA (m)

11.563min 8898.070 ppb m

response 60754998

Manual Integration:

After

Baseline/Shoulder

03/17/21

(5) MCPA #2 (m)

10.317min 8400.855 ppb

response 29586385

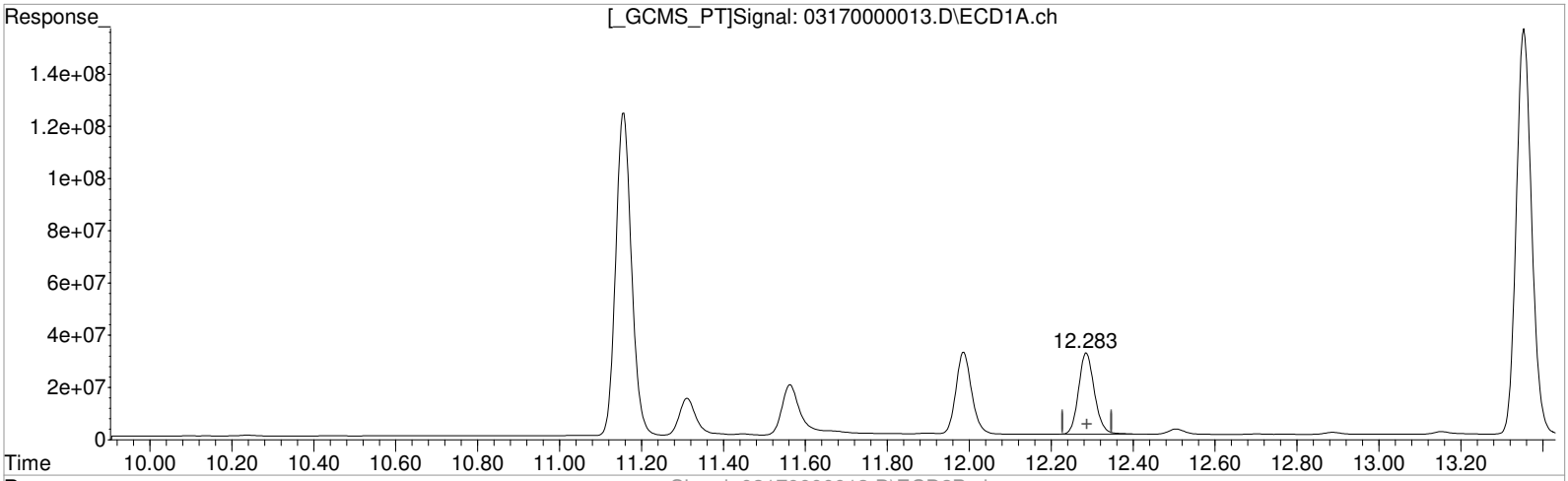
(+) = Expected Retention Time

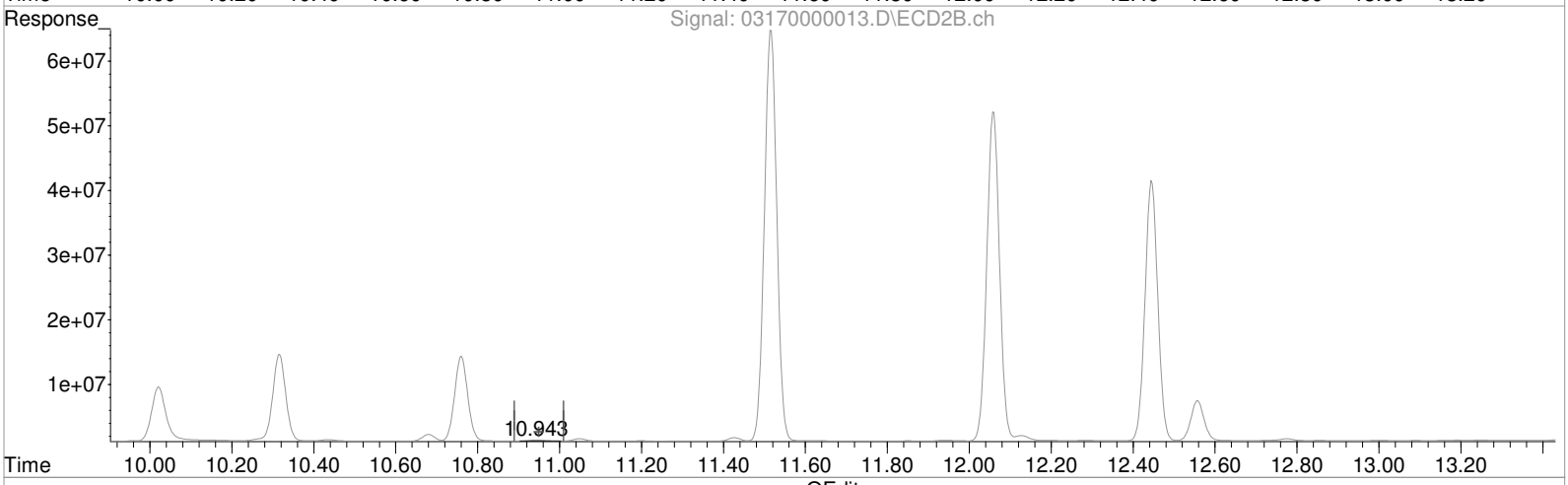
1st JTC 03/17/21
2nd 4w 03/18/21

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:19:59 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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

(7) 2,4-D (m)

12.283min 86.228 ppb

response 84327872

(7) 2,4-D #2 (m)

10.943min 0.596 ppb

response 440332

Manual Integration:

Before

03/17/21

(+) = Expected Retention Time

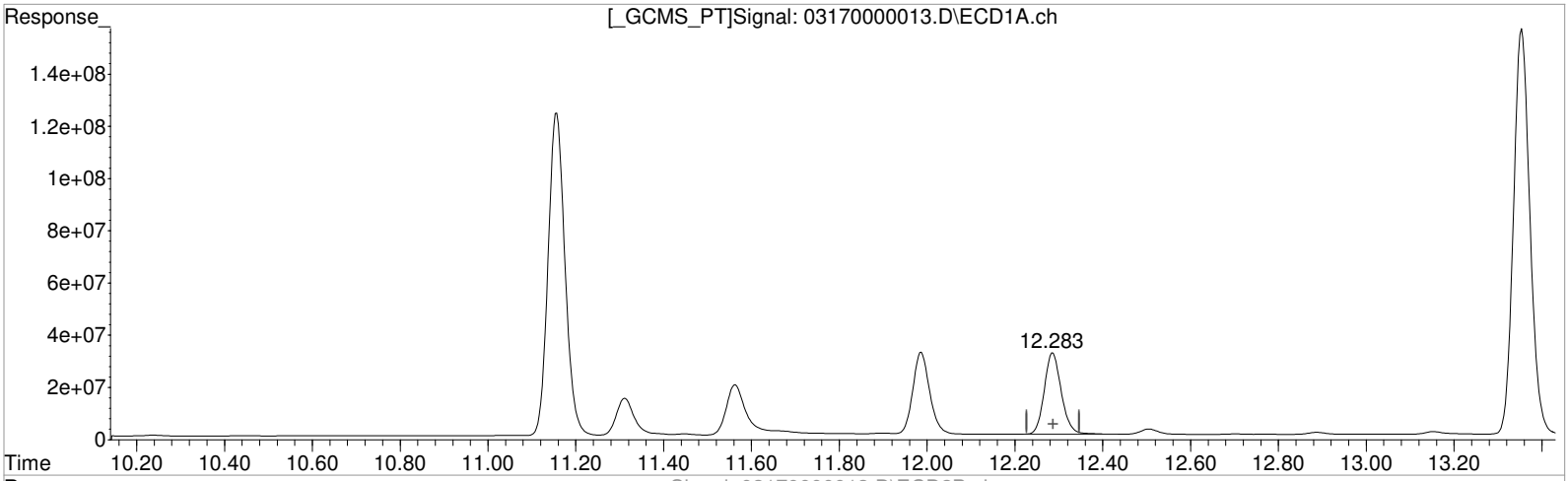
Quantitation Report (Qedit)

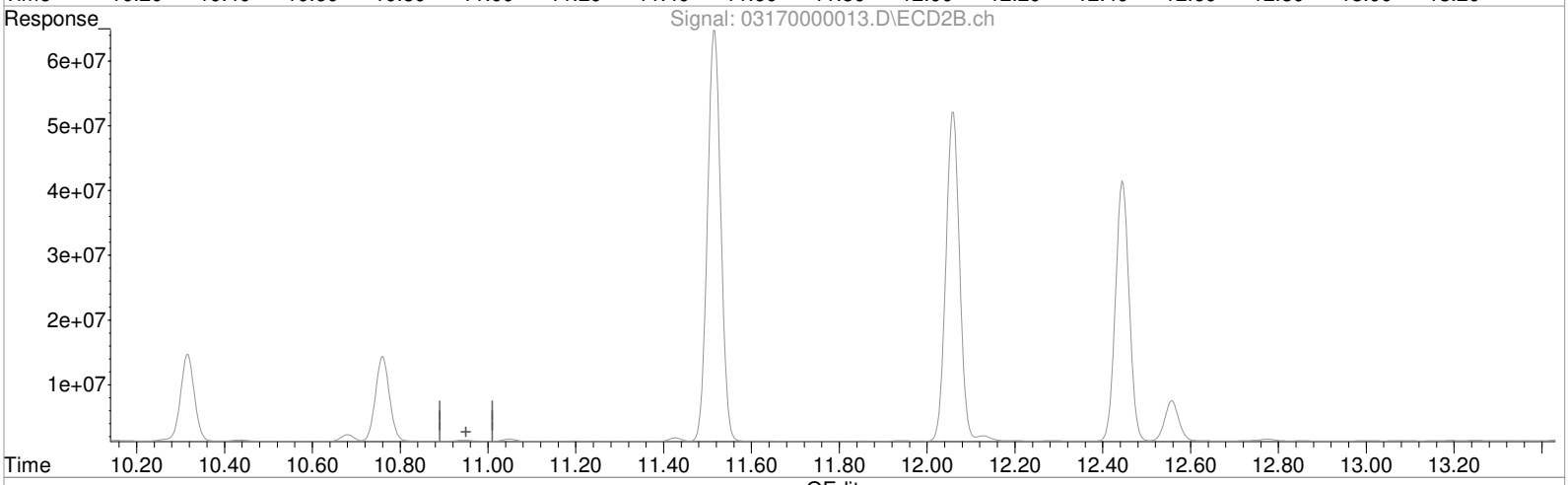
1st JTC 03/17/21
2nd 03/18/21

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:19:59 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
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

(7) 2,4-D (m)

12.283min 86.228 ppb

response 84327872

(7) 2,4-D #2 (m)

0.000min 0.000 ppb d

response 0

Manual Integration:

After

Missing peak

03/17/21

(+) = Expected Retention Time

Sequence: C:\GC34\SEQUENCE\~~033121DHB.~~S
033121
①

Run # 718306
Calibration ID: KC2100138

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
1	Vial 100	PRIMER	8151A-17	1	Sample	
2	Vial 100	PRIMER	8151A-17	1	Sample	
3	Vial 6	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
4	Vial 7	IB	8151A-17	1	Sample	
5	Vial 8	DIAZO CHK	8151A-17	1	Sample	
6	Vial 6	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
7	Vial 7	IB	8151A-17	1	Sample	
8	Vial 9	KQ2104449-04 MB	8151A-17	1	Sample	
9	Vial 10	KQ2104449-03 LCS	8151A-17	1	Sample	
10	Vial 11	K210~~1811~~-002 MS ② 2811	8151A-17	1	Sample	
11	Vial 12	K2102811-002 DMS	8151A-17	1	Sample	
12	Vial 13	K2102809-011	8151A-17	1	Sample	
13	Vial 14	K2102809-012	8151A-17	1	Sample	
14	Vial 15	K2102809-013	8151A-17	1	Sample	
15	Vial 16	K2102809-014	8151A-17	1	Sample	
16	Vial 17	K2102868-001	8151A-17	1	Sample	
17	Vial 6	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
18	Vial 7	IB	8151A-17	1	Sample	
19	Vial 18	K2102811-001	8151A-17	1	Sample	
20	Vial 19	K2102811-002	8151A-17	1	Sample	
21	Vial 20	K2102811-003	8151A-17	1	Sample	
22	Vial 21	K2102811-004	8151A-17	1	Sample	
23	Vial 22	K2102811-005	8151A-17	1	Sample	

EE 3.31.21 JTC

Sequence: C:\GC34\SEQUENCE\~~033121BHB~~.S

① 033121

Line	Location	SampleName DataFile	LimsID	Method	Inj	SampleType	InjVolume
24	Vial 23	K2102811-006		8151A-17	1	Sample	
25	Vial 6	PENTA02-25J 100PPB C CV		8151A-17	1	Sample	
26	Vial 7	IB		8151A-17	1	Sample	

Sequence Table (Back Injector):

No entries - empty table!

① EE 3.31.21 JTC