ALS Environmental
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www.alsglobal.com

May 24, 2021

Analytical Report for Service Request No: K2104778

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 May 03, 2021
For your reference, these analyses have been assigned our service request number **K2104778.**

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

for Mark Harris
Project Manager

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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: Sediment

Service Request: K2104778
Date Received: 05/03/2021

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:

Fifteen sediment samples were received for analysis at ALS Environmental on 05/03/2021. 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:

No significant anomalies were noted with this analysis.

Approved by Sydney A Wolfe Date 05/24/2021

Chain of Custody

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K2104778

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20210429-151203

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: CO
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-017SC-B-00-02-210429	N	SE	04/29/2021	9:00	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
002	USMPDI-017SC-B-02-04-210429	N	SE	04/29/2021	9:00	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
003	USMPDI-017SC-B-04-06-210429	N	SE	04/29/2021	9:00	2	☒				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
004	USMPDI-017SC-B-06-08-210429	N	SE	04/29/2021	9:00	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
005	USMPDI-017SC-B-08-10-210429	N	SE	04/29/2021	9:00	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
006	USMPDI-017SC-B-10-12-210429	N	SE	04/29/2021	9:00	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
007	USMPDI-017SC-B-12-14-210429	N	SE	04/29/2021	9:00	1	☐				
								Herbicides	SW8151A	30	4°C

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name C. OREIEL	Print Name K Marron	Print Name	Print Name	Print Name	Print Name
Company QO	Company ALS	Company	Company	Company	Company
Date/Time 5/3/21 0830	Date/Time 5/3/21 1330	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: 4/29/2021

Page 1 of 3

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2104778

COC ID: ALS-20210429-151203

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: CO
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-017SC-B-12-14-210429	N	SE	04/29/2021	9:00	1	☐				
								Total Solids (ALS)	SM2540G	30	4°C
008	USMPDI-017SC-B-14-16-210429	N	SE	04/29/2021	9:00	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
009	USMPDI-017SC-B-16-17.8-210429	N	SE	04/29/2021	9:00	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
010	USMPDI-1017SC-B-12-14-210429	FD	SE	04/29/2021		1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
011	USMPDI-020SC-B-00-02-210429	N	SE	04/29/2021	12:40	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
012	USMPDI-020SC-B-02-05-210429	N	SE	04/29/2021	12:40	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
013	USMPDI-020SC-B-05-07-210429	N	SE	04/29/2021	12:40	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature:	Signature:	Signature	Signature	Signature	Signature
Print Name: C. OREVEL	Print Name:	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company:	Company	Company	Company	Company
Date/Time: 5/3/21 0830	Date/Time: 5/3/21 1330	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: 4/29/2021

Page 2 of 3

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2104778

COC ID: ALS-20210429-151203

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

Project: GascoSiltronic: US Moorings

Client: NW Natural

Sample Custodian: CO

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-020SC-B-07-10-210429	N	SE	04/29/2021	12:40	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
015	USMPDI-020SC-B-10-13-210429	N	SE	04/29/2021	12:40	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name C. OREIRA	Print Name	Print Name	Print Name	Print Name	Print Name
Company EQ	Company	Company	Company	Company	Company
Date/Time 5/3/21 0830	Date/Time 5/3/21 1330	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: 4/29/2021

PM MH

Cooler Receipt and Preservation Form

Client Anchor Service Request K21 04778

Received: 5/3/21 Opened: 5/3/21 By: KM Unloaded: 5/3/21 By: K

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? 1 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
4.7		IR01	AGS-20210429-151203	—	—		

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: _____

Total Solids

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21
Sample Matrix:	Sediment	**Date Received:**	05/3/21
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-017SC-B-00-02-210429	K2104778-001	**53.0**	-	-	1	05/05/21 11:35	
USMPDI-017SC-B-02-04-210429	K2104778-002	**59.2**	-	-	1	05/05/21 11:35	
USMPDI-017SC-B-04-06-210429	K2104778-003	**59.0**	-	-	1	05/05/21 11:35	
USMPDI-017SC-B-06-08-210429	K2104778-004	**57.2**	-	-	1	05/05/21 11:35	
USMPDI-017SC-B-08-10-210429	K2104778-005	**59.1**	-	-	1	05/05/21 11:35	
USMPDI-017SC-B-10-12-210429	K2104778-006	**59.4**	-	-	1	05/05/21 11:35	
USMPDI-017SC-B-12-14-210429	K2104778-007	**66.4**	-	-	1	05/05/21 11:35	
USMPDI-017SC-B-14-16-210429	K2104778-008	**67.8**	-	-	1	05/05/21 11:35	
USMPDI-017SC-B-16-17.8-210429	K2104778-009	**69.6**	-	-	1	05/05/21 11:35	
USMPDI-1017SC-B-12-14-210429	K2104778-010	**67.6**	-	-	1	05/05/21 11:35	
USMPDI-020SC-B-00-02-210429	K2104778-011	**47.5**	-	-	1	05/05/21 11:35	
USMPDI-020SC-B-02-05-210429	K2104778-012	**55.4**	-	-	1	05/05/21 11:35	
USMPDI-020SC-B-05-07-210429	K2104778-013	**54.7**	-	-	1	05/05/21 11:35	
USMPDI-020SC-B-07-10-210429	K2104778-014	**57.6**	-	-	1	05/05/21 11:35	
USMPDI-020SC-B-10-13-210429	K2104778-015	**60.7**	-	-	1	05/06/21 19:10	
Method Blank	K2104778-MB1	ND U	-	-	1	05/05/21 11:35	
Method Blank	K2104778-MB2	ND U	-	-	1	05/06/21 19:10	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21
Sample Matrix:	Sediment	**Date Received:**	05/03/21
Analysis Method:	SM 2540 G	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Replicate Sample Summary
Solids, Total

Sample Name:	Lab Code:	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K2104735-019DUP	-	-	54.7	53.4	54.1	2	20	05/05/21
Batch QC	K2104776-002DUP	-	-	53.9	54.4	54.2	<1	20	05/06/21
Batch QC	K2104776-010DUP	-	-	58.0	58.1	58.1	<1	20	05/06/21
USMPDI-017SC-B-04-06-210429	K2104778-003DUP	-	-	59.0	57.6	58.3	2	20	05/05/21

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:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 09:00
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-017SC-B-00-02-210429	**Units:**	ug/Kg
Lab Code:	K2104778-001	**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	93	4.5	1	05/22/21 01:26	5/13/21	
2,4-D	ND U	93	15	1	05/22/21 01:26	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	82	26 - 127	05/22/21 01:26	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 09:00
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-017SC-B-02-04-210429	**Units:**	ug/Kg
Lab Code:	K2104778-002	**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	82	4.0	1	05/22/21 01:50	5/13/21	
2,4-D	ND U	82	13	1	05/22/21 01:50	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	74	26 - 127	05/22/21 01:50	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 09:00
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-017SC-B-04-06-210429	**Units:**	ug/Kg
Lab Code:	K2104778-003	**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	83	4.0	1	05/22/21 02:14	5/13/21	
2,4-D	ND U	83	13	1	05/22/21 02:14	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	55	26 - 127	05/22/21 02:14	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 09:00
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-017SC-B-06-08-210429	**Units:**	ug/Kg
Lab Code:	K2104778-004	**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	86	4.2	1	05/22/21 03:26	5/13/21	
2,4-D	ND U	86	14	1	05/22/21 03:26	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	73	26 - 127	05/22/21 03:26	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 09:00
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-017SC-B-08-10-210429	**Units:**	ug/Kg
Lab Code:	K2104778-005	**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	84	4.1	1	05/22/21 03:50	5/13/21	
2,4-D	ND U	84	13	1	05/22/21 03:50	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	75	26 - 127	05/22/21 03:50	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 09:00
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-017SC-B-10-12-210429	**Units:**	ug/Kg
Lab Code:	K2104778-006	**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	84	4.1	1	05/22/21 04:14	5/13/21	
2,4-D	ND U	84	13	1	05/22/21 04:14	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	69	26 - 127	05/22/21 04:14	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 09:00
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-017SC-B-12-14-210429	**Units:**	ug/Kg
Lab Code:	K2104778-007	**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	73	3.6	1	05/22/21 04:38	5/13/21	
2,4-D	ND U	73	12	1	05/22/21 04:38	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	79	26 - 127	05/22/21 04:38	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 09:00
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-017SC-B-14-16-210429	**Units:**	ug/Kg
Lab Code:	K2104778-008	**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	74	3.6	1	05/22/21 05:02	5/13/21	
2,4-D	ND U	74	12	1	05/22/21 05:02	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	53	26 - 127	05/22/21 05:02	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 09:00
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-017SC-B-16-17.8-210429	**Units:**	ug/Kg
Lab Code:	K2104778-009	**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	71	3.4	1	05/22/21 06:14	5/13/21	
2,4-D	ND U	71	11	1	05/22/21 06:14	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	70	26 - 127	05/22/21 06:14	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-1017SC-B-12-14-210429	**Units:**	ug/Kg
Lab Code:	K2104778-010	**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 Ui	72	3.5	1	05/22/21 06:38	5/13/21	
2,4-D	ND U	72	12	1	05/22/21 06:38	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	73	26 - 127	05/22/21 06:38	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 12:40
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-020SC-B-00-02-210429	**Units:**	ug/Kg
Lab Code:	K2104778-011	**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	100	5.1	1	05/22/21 07:02	5/13/21	
2,4-D	ND U	100	17	1	05/22/21 07:02	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	66	26 - 127	05/22/21 07:02	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 12:40
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-020SC-B-02-05-210429	**Units:**	ug/Kg
Lab Code:	K2104778-012	**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	88	4.3	1	05/22/21 07:26	5/13/21	
2,4-D	ND U	88	14	1	05/22/21 07:26	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	67	26 - 127	05/22/21 07:26	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 12:40
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-020SC-B-05-07-210429	**Units:**	ug/Kg
Lab Code:	K2104778-013	**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	91	4.4	1	05/22/21 07:50	5/13/21	
2,4-D	ND U	91	14	1	05/22/21 07:50	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	79	26 - 127	05/22/21 07:50	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 12:40
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-020SC-B-07-10-210429	**Units:**	ug/Kg
Lab Code:	K2104778-014	**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	87	4.2	1	05/22/21 08:14	5/13/21	
2,4-D	ND U	87	14	1	05/22/21 08:14	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	67	26 - 127	05/22/21 08:14	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21 12:40
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-020SC-B-10-13-210429	**Units:**	ug/Kg
Lab Code:	K2104778-015	**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	80	3.9	1	05/22/21 08:37	5/13/21	
2,4-D	ND Ui	80	18	1	05/22/21 08:37	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	78	26 - 127	05/22/21 08:37	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KQ2107591-04	**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	49	2.4	1	05/22/21 01:02	5/13/21	
2,4-D	ND U	49	7.7	1	05/22/21 01:02	5/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	65	26 - 127	05/22/21 01:02	

Confirmation Results

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

Service Request: K2104778
Date Collected: 04/29/21 09:00
Date Received: 5/3/21

Sample Name: USMPDI-017SC-B-04-06-210429
Lab Code: KQ2107591-01

Units: ug/Kg
Basis: Dry
Percent Solids: 59.0

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)	4.1	265	296	11		1	05/22/21 02:38
2,4-D	13	267	288	8		1	05/22/21 02:38

Confirmation Results

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

Service Request: K2104778
Date Collected: 04/29/21 09:00
Date Received: 5/3/21

Sample Name: USMPDI-017SC-B-04-06-210429
Lab Code: KQ2107591-02

Units: ug/Kg
Basis: Dry
Percent Solids: 59.0

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)	4.1	267	299	11		1	05/22/21 03:02
2,4-D	13	276	297	7		1	05/22/21 03:02

Confirmation Results

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

Service Request: K2104778
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2107591-03

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	144	162	12		1	05/22/21 00:38
2,4-D	7.7	143	179	22		1	05/22/21 00:38

Client: Anchor QEA, LLC **Service Request:** K2104778

Project: GascoSiltronic: US Moorings

Sample Matrix: Sediment

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A

Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 26-127
USMPDI-017SC-B-00-02-210429	K2104778-001	82
USMPDI-017SC-B-02-04-210429	K2104778-002	74
USMPDI-017SC-B-04-06-210429	K2104778-003	55
USMPDI-017SC-B-06-08-210429	K2104778-004	73
USMPDI-017SC-B-08-10-210429	K2104778-005	75
USMPDI-017SC-B-10-12-210429	K2104778-006	69
USMPDI-017SC-B-12-14-210429	K2104778-007	79
USMPDI-017SC-B-14-16-210429	K2104778-008	53
USMPDI-017SC-B-16-17.8-210429	K2104778-009	70
USMPDI-1017SC-B-12-14-210429	K2104778-010	73
USMPDI-020SC-B-00-02-210429	K2104778-011	66
USMPDI-020SC-B-02-05-210429	K2104778-012	67
USMPDI-020SC-B-05-07-210429	K2104778-013	79
USMPDI-020SC-B-07-10-210429	K2104778-014	67
USMPDI-020SC-B-10-13-210429	K2104778-015	78
Method Blank	KQ2107591-04	65
Lab Control Sample	KQ2107591-03	82
USMPDI-017SC-B-04-06-210429	KQ2107591-01	84
USMPDI-017SC-B-04-06-210429	KQ2107591-02	79

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Collected:**	04/29/21
Sample Matrix:	Sediment	**Date Received:**	05/03/21
		Date Analyzed:	05/22/21
		Date Extracted:	05/13/21

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name:	USMPDI-017SC-B-04-06-210429	**Units:**	ug/Kg
Lab Code:	K2104778-003	**Basis:**	Dry
Analysis Method:	8151A		
Prep Method:	Method		

		Matrix Spike KQ2107591-01			Duplicate Matrix Spike KQ2107591-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-TP (Silvex)	ND U	265	278	95	267	278	96	34-129	1	40
2,4-D	ND U	267	278	96	276	278	99	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:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	05/22/21
Sample Matrix:	Sediment	**Date Extracted:**	05/13/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Units:**	ug/Kg
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	724570

Lab Control Sample
KQ2107591-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP (Silvex)	144	167	87	46-125
2,4-D	143	167	86	46-120

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	05/22/21 01:02
Sample Matrix:	Sediment	**Date Extracted:**	05/13/21

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	K-GC-34
Lab Code:	KQ2107591-04	**File ID:**	J:\GC34\DATA\052121B-HB\05210000035.D\
Analysis Method:	8151A	**Analysis Lot:**	724570
Prep Method:	Method	**Extraction Lot:**	378807

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2107591-03	J:\GC34\DATA\052121B-HB\05210000034.D\	05/22/21 00:38
USMPDI-017SC-B-00-02-210429	K2104778-001	J:\GC34\DATA\052121B-HB\05210000036.D\	05/22/21 01:26
USMPDI-017SC-B-02-04-210429	K2104778-002	J:\GC34\DATA\052121B-HB\05210000037.D\	05/22/21 01:50
USMPDI-017SC-B-04-06-210429	K2104778-003	J:\GC34\DATA\052121B-HB\05210000038.D\	05/22/21 02:14
USMPDI-017SC-B-04-06-210429MS	KQ2107591-01	J:\GC34\DATA\052121B-HB\05210000039.D\	05/22/21 02:38
USMPDI-017SC-B-04-06-210429DMS	KQ2107591-02	J:\GC34\DATA\052121B-HB\05210000040.D\	05/22/21 03:02
USMPDI-017SC-B-06-08-210429	K2104778-004	J:\GC34\DATA\052121B-HB\05210000041.D\	05/22/21 03:26
USMPDI-017SC-B-08-10-210429	K2104778-005	J:\GC34\DATA\052121B-HB\05210000042.D\	05/22/21 03:50
USMPDI-017SC-B-10-12-210429	K2104778-006	J:\GC34\DATA\052121B-HB\05210000043.D\	05/22/21 04:14
USMPDI-017SC-B-12-14-210429	K2104778-007	J:\GC34\DATA\052121B-HB\05210000044.D\	05/22/21 04:38
USMPDI-017SC-B-14-16-210429	K2104778-008	J:\GC34\DATA\052121B-HB\05210000045.D\	05/22/21 05:02
USMPDI-017SC-B-16-17.8-210429	K2104778-009	J:\GC34\DATA\052121B-HB\05210000048.D\	05/22/21 06:14
USMPDI-1017SC-B-12-14-210429	K2104778-010	J:\GC34\DATA\052121B-HB\05210000049.D\	05/22/21 06:38
USMPDI-020SC-B-00-02-210429	K2104778-011	J:\GC34\DATA\052121B-HB\05210000050.D\	05/22/21 07:02
USMPDI-020SC-B-02-05-210429	K2104778-012	J:\GC34\DATA\052121B-HB\05210000051.D\	05/22/21 07:26
USMPDI-020SC-B-05-07-210429	K2104778-013	J:\GC34\DATA\052121B-HB\05210000052.D\	05/22/21 07:50
USMPDI-020SC-B-07-10-210429	K2104778-014	J:\GC34\DATA\052121B-HB\05210000053.D\	05/22/21 08:14
USMPDI-020SC-B-10-13-210429	K2104778-015	J:\GC34\DATA\052121B-HB\05210000054.D\	05/22/21 08:37

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dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	05/22/21 00:38
Sample Matrix:	Sediment	**Date Extracted:**	05/13/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-34
Lab Code:	KQ2107591-03	**File ID:**	J:\GC34\DATA\052121B-HB\05210000034.D\
Analysis Method:	8151A	**Analysis Lot:**	724570
Prep Method:	Method	**Extraction Lot:**	378807

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2107591-04	J:\GC34\DATA\052121B-HB\05210000035.D\	05/22/21 01:02
USMPDI-017SC-B-00-02-210429	K2104778-001	J:\GC34\DATA\052121B-HB\05210000036.D\	05/22/21 01:26
USMPDI-017SC-B-02-04-210429	K2104778-002	J:\GC34\DATA\052121B-HB\05210000037.D\	05/22/21 01:50
USMPDI-017SC-B-04-06-210429	K2104778-003	J:\GC34\DATA\052121B-HB\05210000038.D\	05/22/21 02:14
USMPDI-017SC-B-04-06-210429MS	KQ2107591-01	J:\GC34\DATA\052121B-HB\05210000039.D\	05/22/21 02:38
USMPDI-017SC-B-04-06-210429DMS	KQ2107591-02	J:\GC34\DATA\052121B-HB\05210000040.D\	05/22/21 03:02
USMPDI-017SC-B-06-08-210429	K2104778-004	J:\GC34\DATA\052121B-HB\05210000041.D\	05/22/21 03:26
USMPDI-017SC-B-08-10-210429	K2104778-005	J:\GC34\DATA\052121B-HB\05210000042.D\	05/22/21 03:50
USMPDI-017SC-B-10-12-210429	K2104778-006	J:\GC34\DATA\052121B-HB\05210000043.D\	05/22/21 04:14
USMPDI-017SC-B-12-14-210429	K2104778-007	J:\GC34\DATA\052121B-HB\05210000044.D\	05/22/21 04:38
USMPDI-017SC-B-14-16-210429	K2104778-008	J:\GC34\DATA\052121B-HB\05210000045.D\	05/22/21 05:02
USMPDI-017SC-B-16-17.8-210429	K2104778-009	J:\GC34\DATA\052121B-HB\05210000048.D\	05/22/21 06:14
USMPDI-1017SC-B-12-14-210429	K2104778-010	J:\GC34\DATA\052121B-HB\05210000049.D\	05/22/21 06:38
USMPDI-020SC-B-00-02-210429	K2104778-011	J:\GC34\DATA\052121B-HB\05210000050.D\	05/22/21 07:02
USMPDI-020SC-B-02-05-210429	K2104778-012	J:\GC34\DATA\052121B-HB\05210000051.D\	05/22/21 07:26
USMPDI-020SC-B-05-07-210429	K2104778-013	J:\GC34\DATA\052121B-HB\05210000052.D\	05/22/21 07:50
USMPDI-020SC-B-07-10-210429	K2104778-014	J:\GC34\DATA\052121B-HB\05210000053.D\	05/22/21 08:14
USMPDI-020SC-B-10-13-210429	K2104778-015	J:\GC34\DATA\052121B-HB\05210000054.D\	05/22/21 08:37

Client: Anchor QEA, LLC **Service Request:** K2104778
Project: GascoSiltronic: US Moorings **Calibration Date:** 5/6/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249 **Signal ID:** Rtx-CLPesticides
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100249-01	PENTA02-29H 10 PPB	J:\GC34\DATA\050621-HB\05060000004.D	05/06/2021 11:32
02	KC2100249-02	PENTA02-29I 25 PPB	J:\GC34\DATA\050621-HB\05060000005.D	05/06/2021 11:56
03	KC2100249-03	PENTA02-29J 75 PPB	J:\GC34\DATA\050621-HB\05060000006.D	05/06/2021 12:20
04	KC2100249-04	PENTA02-29K 100 PPB	J:\GC34\DATA\050621-HB\05060000007.D	05/06/2021 12:44
05	KC2100249-05	PENTA02-29L 125 PPB	J:\GC34\DATA\050621-HB\05060000008.D	05/06/2021 13:08
06	KC2100249-06	PENTA02-29M 150 PPB	J:\GC34\DATA\050621-HB\05060000009.D	05/06/2021 13:32
07	KC2100249-07	PENTA02-29N 175 PPB	J:\GC34\DATA\050621-HB\05060000010.D	05/06/2021 13:56
08	KC2100249-08	PENTA02-30A 200 PPB	J:\GC34\DATA\050621-HB\05060000011.D	05/06/2021 14:20

Analyte

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	2.363E6	02	23.760	2.794E6	03	71.300	2.815E6	04	95.100	2.929E6
05	118.820	3.014E6	06	142.580	3.087E6	07	166.340	3.144E6	08	190.100	3.157E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	5.912E5	02	23.510	6.277E5	03	70.500	6.449E5	04	94.000	6.492E5
05	117.540	6.913E5	06	141.050	7.05E5	07	164.560	7.101E5	08	188.060	7.262E5

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	8.144E5	02	22.550	8.433E5	03	67.600	7.658E5	04	90.200	7.799E5
05	112.730	7.876E5	06	135.280	7.924E5	07	157.830	8.021E5	08	180.370	8.004E5

Client: Anchor QEA, LLC **Service Request:** K2104778
Project: GascoSiltronic: US Moorings **Calibration Date:** 5/6/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249 **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	2.913E6	
2,4-D	TRG	Average RF	% RSD	7.0	≤20	6.682E5	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	2.9	≤20	7.982E5	

Client: Anchor QEA, LLC **Service Request:** K2104778
Project: GascoSiltronic: US Moorings **Calibration Date:** 5/6/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249 **Signal ID:** Rtx-CLPesticides2
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100249-01	PENTA02-29H 10 PPB	J:\GC34\DATA\050621-HB\05060000004.D	05/06/2021 11:32
02	KC2100249-02	PENTA02-29I 25 PPB	J:\GC34\DATA\050621-HB\05060000005.D	05/06/2021 11:56
03	KC2100249-03	PENTA02-29J 75 PPB	J:\GC34\DATA\050621-HB\05060000006.D	05/06/2021 12:20
04	KC2100249-04	PENTA02-29K 100 PPB	J:\GC34\DATA\050621-HB\05060000007.D	05/06/2021 12:44
05	KC2100249-05	PENTA02-29L 125 PPB	J:\GC34\DATA\050621-HB\05060000008.D	05/06/2021 13:08
06	KC2100249-06	PENTA02-29M 150 PPB	J:\GC34\DATA\050621-HB\05060000009.D	05/06/2021 13:32
07	KC2100249-07	PENTA02-29N 175 PPB	J:\GC34\DATA\050621-HB\05060000010.D	05/06/2021 13:56
08	KC2100249-08	PENTA02-30A 200 PPB	J:\GC34\DATA\050621-HB\05060000011.D	05/06/2021 14:20

Analyte

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	1.507E6	02	23.760	1.674E6	03	71.300	1.617E6	04	95.100	1.668E6
05	118.820	1.709E6	06	142.580	1.753E6	07	166.340	1.769E6	08	190.100	1.773E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	3.928E5	02	23.510	4.144E5	03	70.500	3.834E5	04	94.000	3.936E5
05	117.540	4.022E5	06	141.050	4.137E5	07	164.560	4.186E5	08	188.060	4.194E5

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	5.111E5	02	22.550	4.995E5	03	67.600	4.319E5	04	90.200	4.346E5
05	112.730	4.37E5	06	135.280	4.388E5	07	157.830	4.383E5	08	180.370	4.381E5

Client: Anchor QEA, LLC **Service Request:** K2104778
Project: GascoSiltronic: US Moorings **Calibration Date:** 5/6/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249 **Signal ID:** Rtx-CLPesticides2
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	5.3	≤20	1.684E6	
2,4-D	TRG	Average RF	% RSD	3.4	≤20	4.048E5	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	7.1	≤20	4.537E5	

Client: Anchor QEA, LLC **Service Request:** K2104778
Project: GascoSiltronic: US Moorings **Calibration Date:** 5/6/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249 **Signal ID:** Rtx-CLPesticides
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2100249-09	PENTA02-29G 100 PPB ICV	J:\GC34\DATA\050621-HB\05060000012.D	05/06/2021 14:43

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	87.3	2.913E6	2.674E6	-8.197	±20	Average RF
2,4-D	94.0	79.4	6.682E5	5.647E5	-15.491	±20	Average RF

Client: Anchor QEA, LLC **Service Request:** K2104778
Project: GascoSiltronic: US Moorings **Calibration Date:** 5/6/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249 **Signal ID:** Rtx-CLPesticides2
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2100249-09	PENTA02-29G 100 PPB ICV	J:\GC34\DATA\050621-HB\05060000012.D	05/06/2021 14:43

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	86.0	1.684E6	1.523E6	-9.564	±20	Average RF
2,4-D	94.0	83.6	4.048E5	3.598E5	-11.100	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	05/21/21 23:50

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052121B-HB\05210000032.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	724570
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	96.7	1.684E6	1.713E6	1.7	NA	±20	Average RF
2,4-D	94.0	84.6	4.048E5	3.644E5	-10.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	88.0	4.537E5	3.994E5	-12.0	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	05/21/21 23:50

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052121B-HB\05210000032.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	724570
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	110	2.913E6	3.368E6	15.6	NA	±20	Average RF
2,4-D	94.0	98.0	6.682E5	6.967E5	4.3	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	89.6	7.982E5	7.153E5	-10.4	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	05/22/21 05:26

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052121B-HB\05210000046.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	724570
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	90.0	1.684E6	1.594E6	-5.3	NA	±20	Average RF
2,4-D	94.0	82.9	4.048E5	3.571E5	-11.8	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	82.8	4.537E5	3.757E5	-17.2	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	05/22/21 05:26

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052121B-HB\05210000046.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	724570
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	102	2.913E6	3.115E6	6.9	NA	±20	Average RF
2,4-D	94.0	96.5	6.682E5	6.86E5	2.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	94.6	7.982E5	7.555E5	-5.4	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	05/22/21 11:25

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052121B-HB\05210000061.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	724570
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	92.4	1.684E6	1.637E6	-2.8	NA	±20	Average RF
2,4-D	94.0	85.1	4.048E5	3.666E5	-9.4	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	85.4	4.537E5	3.876E5	-14.6	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2104778
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	05/22/21 11:25

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052121B-HB\05210000061.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	724570
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	107	2.913E6	3.272E6	12.3	NA	±20	Average RF
2,4-D	94.0	99.5	6.682E5	7.074E5	5.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	102	7.982E5	8.169E5	2.3	NA	±20	Average RF

Client: Anchor QEA, LLC **Service Request:**K2104778
Project: GascoSiltronic: US Moorings

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**724570
Instrument ID:K-GC-34

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC34\DATA\052121B-HB\05210000032.D\	Continuing Calibration Verification	KQ2109059-01	5/21/2021	23:50:26	
J:\GC34\DATA\052121B-HB\05210000033.D\	Continuing Calibration Blank	KQ2109059-02	5/22/2021	00:14:41	
J:\GC34\DATA\052121B-HB\05210000034.D\	Lab Control Sample	KQ2107591-03	5/22/2021	00:38:38	
J:\GC34\DATA\052121B-HB\05210000035.D\	Method Blank	KQ2107591-04	5/22/2021	01:02:33	
J:\GC34\DATA\052121B-HB\05210000036.D\	USMPDI-017SC-B-00-02-210429	K2104778-001	5/22/2021	01:26:37	
J:\GC34\DATA\052121B-HB\05210000037.D\	USMPDI-017SC-B-02-04-210429	K2104778-002	5/22/2021	01:50:36	
J:\GC34\DATA\052121B-HB\05210000038.D\	USMPDI-017SC-B-04-06-210429	K2104778-003	5/22/2021	02:14:40	
J:\GC34\DATA\052121B-HB\05210000039.D\	USMPDI-017SC-B-04-06-210429 MS	KQ2107591-01	5/22/2021	02:38:35	
J:\GC34\DATA\052121B-HB\05210000040.D\	USMPDI-017SC-B-04-06-210429 DMS	KQ2107591-02	5/22/2021	03:02:36	
J:\GC34\DATA\052121B-HB\05210000041.D\	USMPDI-017SC-B-06-08-210429	K2104778-004	5/22/2021	03:26:33	
J:\GC34\DATA\052121B-HB\05210000042.D\	USMPDI-017SC-B-08-10-210429	K2104778-005	5/22/2021	03:50:42	
J:\GC34\DATA\052121B-HB\05210000043.D\	USMPDI-017SC-B-10-12-210429	K2104778-006	5/22/2021	04:14:35	
J:\GC34\DATA\052121B-HB\05210000044.D\	USMPDI-017SC-B-12-14-210429	K2104778-007	5/22/2021	04:38:36	
J:\GC34\DATA\052121B-HB\05210000045.D\	USMPDI-017SC-B-14-16-210429	K2104778-008	5/22/2021	05:02:30	
J:\GC34\DATA\052121B-HB\05210000046.D\	Continuing Calibration Verification	KQ2109059-03	5/22/2021	05:26:26	
J:\GC34\DATA\052121B-HB\05210000047.D\	Continuing Calibration Blank	KQ2109059-04	5/22/2021	05:50:29	
J:\GC34\DATA\052121B-HB\05210000048.D\	USMPDI-017SC-B-16-17.8-210429	K2104778-009	5/22/2021	06:14:24	
J:\GC34\DATA\052121B-HB\05210000049.D\	USMPDI-1017SC-B-12-14-210429	K2104778-010	5/22/2021	06:38:17	
J:\GC34\DATA\052121B-HB\05210000050.D\	USMPDI-020SC-B-00-02-210429	K2104778-011	5/22/2021	07:02:17	
J:\GC34\DATA\052121B-HB\05210000051.D\	USMPDI-020SC-B-02-05-210429	K2104778-012	5/22/2021	07:26:09	
J:\GC34\DATA\052121B-HB\05210000052.D\	USMPDI-020SC-B-05-07-210429	K2104778-013	5/22/2021	07:50:08	
J:\GC34\DATA\052121B-HB\05210000053.D\	USMPDI-020SC-B-07-10-210429	K2104778-014	5/22/2021	08:14:01	
J:\GC34\DATA\052121B-HB\05210000054.D\	USMPDI-020SC-B-10-13-210429	K2104778-015	5/22/2021	08:37:54	
J:\GC34\DATA\052121B-HB\05210000061.D\	Continuing Calibration Verification	KQ2109059-05	5/22/2021	11:25:54	
J:\GC34\DATA\052121B-HB\05210000062.D\	Continuing Calibration Blank	KQ2109059-06	5/22/2021	11:49:52	

Prep Summary Report

Client: Anchor QEA, LLC **Service Request:**K2104778
Project: GascoSiltronic: US Moorings
Sample Matrix: Sediment

Chlorinated Herbicides by GC

Prep Method: Method **Extraction Lot:** 378807
Analytical Method: 8151A **Extraction Date:** 05/13/21 11:12

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-017SC-B-00-02-210429	K2104778-001	4/29/21	5/3/21	30.5650 g	50 mL	53.0
USMPDI-017SC-B-02-04-210429	K2104778-002	4/29/21	5/3/21	30.9140 g	50 mL	59.2
USMPDI-017SC-B-04-06-210429	K2104778-003	4/29/21	5/3/21	30.6440 g	50 mL	59.0
USMPDI-017SC-B-06-08-210429	K2104778-004	4/29/21	5/3/21	30.4370 g	50 mL	57.2
USMPDI-017SC-B-08-10-210429	K2104778-005	4/29/21	5/3/21	30.0850 g	50 mL	59.1
USMPDI-017SC-B-10-12-210429	K2104778-006	4/29/21	5/3/21	30.1320 g	50 mL	59.4
USMPDI-017SC-B-12-14-210429	K2104778-007	4/29/21	5/3/21	30.8700 g	50 mL	66.4
USMPDI-017SC-B-14-16-210429	K2104778-008	4/29/21	5/3/21	30.0030 g	50 mL	67.8
USMPDI-017SC-B-16-17.8-210429	K2104778-009	4/29/21	5/3/21	30.4390 g	50 mL	69.6
USMPDI-1017SC-B-12-14-210429	K2104778-010	4/29/21	5/3/21	30.6220 g	50 mL	67.6
USMPDI-020SC-B-00-02-210429	K2104778-011	4/29/21	5/3/21	30.2900 g	50 mL	47.5
USMPDI-020SC-B-02-05-210429	K2104778-012	4/29/21	5/3/21	30.8190 g	50 mL	55.4
USMPDI-020SC-B-05-07-210429	K2104778-013	4/29/21	5/3/21	30.2930 g	50 mL	54.7
USMPDI-020SC-B-07-10-210429	K2104778-014	4/29/21	5/3/21	30.0410 g	50 mL	57.6
USMPDI-020SC-B-10-13-210429	K2104778-015	4/29/21	5/3/21	30.9170 g	50 mL	60.7
Matrix Spike	KQ2107591-01MS	4/29/21	5/3/21	30.4540 g	50 mL	59.0
Duplicate Matrix Spike	KQ2107591-02DMS	4/29/21	5/3/21	30.4560 g	50 mL	59.0
Lab Control Sample	KQ2107591-03LCS	NA	NA	30.0000 g	50 mL	
Method Blank	KQ2107591-04MB	NA	NA	30.9170 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

Analytical Results Summary

Instrument Name: K-Balance-41 **Analyst:** BNETLING **Analysis Lot:** 722458 **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
K2104735-018	Solids, Total	N/A		Sediment	55.40 Percent	25.1864	55.4 Percent	1					5/5/21 11:35:00	N	IV
K2104735-019	Solids, Total	N/A		Sediment	54.70 Percent	28.2810	54.7 Percent	1					5/5/21 11:35:00	N	IV
K2104735-020	Solids, Total	N/A		Sediment	55.70 Percent	28.9031	55.7 Percent	1					5/5/21 11:35:00	N	IV
K2104735-021	Solids, Total	N/A		Sediment	56.30 Percent	29.5252	56.3 Percent	1					5/5/21 11:35:00	N	IV
K2104735-022	Solids, Total	N/A		Sediment	60.20 Percent	31.3608	60.2 Percent	1					5/5/21 11:35:00	N	IV
K2104735-023	Solids, Total	N/A		Sediment	54.90 Percent	25.9869	54.9 Percent	1					5/5/21 11:35:00	N	IV
K2104778-001	Solids, Total	N/A		Sediment	53.00 Percent	39.5359	53.0 Percent	1					5/5/21 11:35:00	N	IV
K2104778-002	Solids, Total	N/A		Sediment	59.20 Percent	47.4879	59.2 Percent	1					5/5/21 11:35:00	N	IV
K2104778-003	Solids, Total	N/A		Sediment	59.00 Percent	30.6598	59.0 Percent	1					5/5/21 11:35:00	Y	IV
K2104778-004	Solids, Total	N/A		Sediment	57.20 Percent	28.0332	57.2 Percent	1					5/5/21 11:35:00	N	IV
K2104778-005	Solids, Total	N/A		Sediment	59.10 Percent	26.8303	59.1 Percent	1					5/5/21 11:35:00	N	IV
K2104778-006	Solids, Total	N/A		Sediment	59.40 Percent	31.1898	59.4 Percent	1					5/5/21 11:35:00	N	IV
K2104778-007	Solids, Total	N/A		Sediment	66.40 Percent	28.0316	66.4 Percent	1					5/5/21 11:35:00	N	IV
K2104778-008	Solids, Total	N/A		Sediment	67.80 Percent	30.6573	67.8 Percent	1					5/5/21 11:35:00	N	IV
K2104778-009	Solids, Total	N/A		Sediment	69.60 Percent	31.7921	69.6 Percent	1					5/5/21 11:35:00	N	IV
K2104778-010	Solids, Total	N/A		Sediment	67.60 Percent	29.5544	67.6 Percent	1					5/5/21 11:35:00	N	IV
K2104778-011	Solids, Total	N/A		Sediment	47.50 Percent	29.2868	47.5 Percent	1					5/5/21 11:35:00	N	IV
K2104778-012	Solids, Total	N/A		Sediment	55.40 Percent	27.7608	55.4 Percent	1					5/5/21 11:35:00	N	IV
K2104778-013	Solids, Total	N/A		Sediment	54.70 Percent	27.8438	54.7 Percent	1					5/5/21 11:35:00	N	IV
K2104778-014	Solids, Total	N/A		Sediment	57.60 Percent	26.9717	57.6 Percent	1					5/5/21 11:35:00	N	IV
KQ2107587-01	Solids, Total	DUP	K2104735-019	Sediment	53.40 Percent	25.8554	53.4 Percent	1				2	5/5/21 11:35:00	N	IV
KQ2107587-02	Solids, Total	DUP	K2104778-003	Sediment	57.60 Percent	37.6312	57.6 Percent	1				2	5/5/21 11:35:00	N	IV
KQ2107587-03	Solids, Total	MB		Sediment	0.00 Percent	49.8137	0.0 Percent	1					5/5/21 11:35:00	N	IV

# 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 #.: K2104735, 4778 Method: SM 2540 G

Run: 722458

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

Sample Number		MB	4735-018	4735-019	4735-019D	4735-020	4735-021
Crucible Number		3U	AUG	7MM	408	17	JASPER
SampleWeight		49.8137	25.1864	28.2810	25.8554	28.9031	29.5252
Tare Weight	Date	57.2176	75.0920	60.9793	76.6214	51.6532	47.7719
Tare + Dry Wt. (1)	5/6/2021	57.2162	89.0435	76.4670	90.4416	67.7751	64.4027
Tare + Dry Wt. (2)	5/6/2021	57.2150	89.0349	76.4513	90.4354	67.7613	64.3930
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	55.4%	54.7%	53.4%	55.7%	56.3%
Volatile Solids		-2200576.9%	638.6%	494.1%	654.7%	420.7%	387.4%

Sample Number		4735-022	4735-023	4778-001	4778-002	4778-003	4778-003D
Crucible Number		SNOW	BILLIE	M14	3	23	16
Sample Weight		31.3608	25.9869	39.5359	47.4879	30.6598	37.6312
Tare Weight	Date	53.1116	56.3850	76.0531	50.2580	52.9442	53.7665
Tare + Dry Wt. (1)	5/6/2021	71.9970	70.6654	96.9985	78.3617	71.0470	75.4299
Tare + Dry Wt. (2)	5/6/2021	71.9876	70.6538	96.9967	78.3567	71.0485	75.4258
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		60.2%	54.9%	53.0%	59.2%	59.0%	57.6%
Volatile Solids		381.4%	495.2%	463.1%	278.9%	392.4%	348.2%

% 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:	5/5/2021
Reviewed By:		Date:	5/7/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2104735, 4778 Method: SM 2540 G

Run: 722458

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

Sample Number		4778-004	4778-005	4778-006	4778-007	4778-008	4778-009
Crucible Number		4	GWEN	25	SIERRA	MONTE	CLARKE
SampleWeight		28.0332	26.8303	31.1898	28.0316	30.6573	31.7921
Tare Weight	Date	52.6170	52.0893	51.3882	51.5717	52.6368	53.2512
Tare + Dry Wt. (1)	5/6/2021	68.6534	67.9448	69.9287	70.1952	73.4293	75.3899
Tare + Dry Wt. (2)	5/6/2021	68.6417	67.9386	69.9155	70.1845	73.4213	75.3850
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		57.2%	59.1%	59.4%	66.4%	67.8%	69.6%
Volatile Solids		428.3%	428.7%	377.4%	377.1%	353.3%	340.6%

Sample Number		4778-010	4778-011	4778-012	4778-013	4778-014	
Crucible Number		6	18	7G	24	21	
Sample Weight		29.5544	29.2868	27.7608	27.8438	26.9714	
Tare Weight	Date	48.7826	50.6249	56.0888	47.8594	53.8912	
Tare + Dry Wt. (1)	5/6/2021	68.7785	64.5475	71.4763	63.1010	69.4501	
Tare + Dry Wt. (2)	5/6/2021	68.7688	64.5389	71.4642	63.0919	69.4365	
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		67.6%	47.5%	55.4%	54.7%	57.6%	#DIV/0!
Volatile Solids		344.1%	463.8%	464.8%	414.2%	446.7%	#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:	5/5/2021
Reviewed By:		Date:	5/7/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2104735, 4778

Method: SM 2540 G

Run: 722458

Analysis: Total Solids / Volatile Solids

Matrix: Soil/Solids

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	11:35	5/5/2021	8:20	5/6/2021
105	10:25	5/6/2021	11:35	5/6/2021

Analyzed By:	BN	Date Analyzed:	5/5/2021
Reviewed By:	QC	Date Reviewed:	5/7/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2104735, 4778 Method: SM 2540 G

Run: 722458

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

CCV Verification SN:1000122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9973	100.0%	CCV1	9.9980	100.0%	5/5/2021
CCV2	199.9973	100.0%	CCV2	9.9986	100.0%	5/5/2021
CCV3	199.9972	100.0%	CCV3	9.9981	100.0%	5/6/2021
CCV4	199.9976	100.0%	CCV4	9.9985	100.0%	5/6/2021
CCV5	199.9980	100.0%	CCV5	9.9991	100.0%	5/6/2021
CCV6	199.9972	100.0%	CCV6	9.9983	100.0%	5/6/2021
~~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:	5/5/2021
Reviewed By:		Date Reviewed:	5/7/21

Analytical Results Summary

Instrument Name: K-Balance-41 **Analyst:** BNETLING **Analysis Lot:** 722548 **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
K2104775-001	Solids, Total	N/A		Sediment	52.50 Percent	26.0585 g	52.5 Percent	1					5/6/21 19:10:00	N	IV
K2104775-002	Solids, Total	N/A		Sediment	54.50 Percent	29.7534 g	54.5 Percent	1					5/6/21 19:10:00	N	IV
K2104775-003	Solids, Total	N/A		Sediment	56.40 Percent	28.1338 g	56.4 Percent	1					5/6/21 19:10:00	N	IV
K2104776-001	Solids, Total	N/A		Sediment	51.30 Percent	35.3716 g	51.3 Percent	1					5/6/21 19:10:00	N	IV
K2104776-002	Solids, Total	N/A		Sediment	53.90 Percent	28.6401 g	53.9 Percent	1					5/6/21 19:10:00	Y	IV
K2104776-003	Solids, Total	N/A		Sediment	54.30 Percent	29.4632 g	54.3 Percent	1					5/6/21 19:10:00	N	IV
K2104776-004	Solids, Total	N/A		Sediment	57.90 Percent	25.4281 g	57.9 Percent	1					5/6/21 19:10:00	N	IV
K2104776-005	Solids, Total	N/A		Sediment	54.20 Percent	28.7094 g	54.2 Percent	1					5/6/21 19:10:00	N	IV
K2104776-006	Solids, Total	N/A		Sediment	49.90 Percent	26.4851 g	49.9 Percent	1					5/6/21 19:10:00	N	IV
K2104776-007	Solids, Total	N/A		Sediment	54.50 Percent	29.0852 g	54.5 Percent	1					5/6/21 19:10:00	N	IV
K2104776-008	Solids, Total	N/A		Sediment	54.60 Percent	27.4583 g	54.6 Percent	1					5/6/21 19:10:00	N	IV
K2104776-009	Solids, Total	N/A		Sediment	56.90 Percent	25.3152 g	56.9 Percent	1					5/6/21 19:10:00	N	IV
K2104776-010	Solids, Total	N/A		Sediment	58.00 Percent	28.3185 g	58.0 Percent	1					5/6/21 19:10:00	N	IV
K2104776-011	Solids, Total	N/A		Sediment	44.10 Percent	28.1995 g	44.1 Percent	1					5/6/21 19:10:00	N	IV
K2104776-012	Solids, Total	N/A		Sediment	51.70 Percent	29.4775 g	51.7 Percent	1					5/6/21 19:10:00	N	IV
K2104776-013	Solids, Total	N/A		Sediment	60.90 Percent	27.4536 g	60.9 Percent	1					5/6/21 19:10:00	N	IV
K2104776-014	Solids, Total	N/A		Sediment	54.10 Percent	28.4856 g	54.1 Percent	1					5/6/21 19:10:00	N	IV
K2104776-015	Solids, Total	N/A		Sediment	43.30 Percent	24.3366 g	43.3 Percent	1					5/6/21 19:10:00	N	IV
K2104776-016	Solids, Total	N/A		Sediment	75.80 Percent	17.6050 g	75.8 Percent	1					5/6/21 19:10:00	N	IV
K2104778-015	Solids, Total	N/A		Sediment	60.70 Percent	31.4089 g	60.7 Percent	1					5/6/21 19:10:00	N	IV
KQ2107900-01	Solids, Total	MB		Sediment	0.00 Percent	51.7351 g	0.0 Percent	1					5/6/21 19:10:00	N	IV
KQ2107900-02	Solids, Total	DUP	K2104776-002	Sediment	54.40 Percent	27.3934 g	54.4 Percent	1				<1	5/6/21 19:10:00	N	IV
KQ2107900-03	Solids, Total	DUP	K2104776-010	Sediment	58.10 Percent	28.8542 g	58.1 Percent	1				<1	5/6/21 19:10:00	N	IV

# 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 #.: K2104778, 4776, 4775 Method: SM 2540 G TS

Run: 722548

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

Sample Number		MB	4778-015	4776-001	4776-002	4776-002D	4776-003
Crucible Number		20	19	FIRN	JOSH	JASPER	11
SampleWeight		51.7351	31.4089	35.3716	28.6401	27.3934	29.4632
Tare Weight	Date	49.9770	49.8415	49.4153	48.6316	47.7654	51.5159
Tare + Dry Wt. (1)	5/7/2021	49.9749	68.9114	67.5443	64.0687	62.6689	67.5080
Tare + Dry Wt. (2)	5/7/2021	49.9760	68.9147	67.5473	64.0718	62.6770	67.5135
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	60.7%	51.3%	53.9%	54.4%	54.3%
Volatile Solids		-4997600.0%	361.3%	372.5%	415.0%	420.3%	422.0%

Sample Number		4776-004	4776-005	4776-006	4776-007	4776-008	4776-009
Crucible Number		21	GWEN	25	27	3D	LEXA
Sample Weight		25.4281	28.7094	26.4851	29.0852	27.4583	25.3152
Tare Weight	Date	53.8889	52.0865	51.3817	51.4143	57.0996	50.4950
Tare + Dry Wt. (1)	5/7/2021	68.6116	67.6324	64.5835	67.2458	72.0871	64.8812
Tare + Dry Wt. (2)	5/7/2021	68.6233	67.6439	64.5953	67.2553	72.0890	64.8910
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		57.9%	54.2%	49.9%	54.5%	54.6%	56.9%
Volatile Solids		465.7%	434.8%	488.9%	424.6%	480.9%	450.8%

% 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:	5/6/2021
Reviewed By:		Date:	5/10/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2104778, 4776, 4775 Method: SM 2540 G TS

Run: 722548

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

Sample Number		4776-010	4776-010D	4776-011	4776-012	4776-013	4776-014
Crucible Number		M14	CLARKE	BILLIE	18	MEOW	SNOW
SampleWeight		28.3185	28.8542	28.1995	29.4775	27.4536	28.4856
Tare Weight	Date	76.0460	53.2578	56.3852	50.6275	54.8414	53.1127
Tare + Dry Wt. (1)	5/7/2021	92.4701	70.0203	68.8005	65.3805	71.5632	68.5128
Tare + Dry Wt. (2)	5/7/2021	92.4807	70.0258	68.8102	65.8620	71.5683	68.5176
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		58.0%	58.1%	44.1%	51.7%	60.9%	54.1%
Volatile Solids		562.7%	417.6%	553.8%	432.3%	427.9%	444.8%

Sample Number		4776-015	4776-016	4775-001	4775-002	4775-003	
Crucible Number		LINCOLN	KANE	SIERRA	23	7MM	
Sample Weight		24.3366	17.6050	26.0585	29.7534	28.1338	
Tare Weight	Date	52.2144	48.3000	51.5719	52.9445	60.9683	
Tare + Dry Wt. (1)	5/7/2021	62.7563	61.6409	65.2526	69.1472	76.8379	
Tare + Dry Wt. (2)	5/7/2021	62.7581	61.6415	65.2595	69.1517	76.8386	
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		43.3%	75.8%	52.5%	54.5%	56.4%	#DIV/0!
Volatile Solids		595.2%	462.0%	476.8%	426.7%	484.2%	#DIV/0!

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

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

Comments: K2104776-016 LIMITED VOLUME

105 oven: K - OVEN 07

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

Analyzed By:	BN	Date:	5/6/2021
Reviewed By:		Date:	5/10/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2104778, 4776, 4775

Method: SM 2540 G TS

Run: 722548

Analysis: Total Solids / Volatile Solids

Matrix: Soil/Solids

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	19:10	5/6/2021	6:05	5/7/2021
105	7:50	5/7/2021	9:20	5/7/2021

Analyzed By:	BN	Date Analyzed:	5/6/2021
Reviewed By:		Date Reviewed:	5/10/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2104778, 4776, 4775 Method: SM 2540 G TS

Run: 722548

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

CCV Verification SN:1000122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9970	100.0%	CCV1	9.9980	100.0%	5/6/2021
CCV2	199.9968	100.0%	CCV2	9.9984	100.0%	5/6/2021
CCV3	199.9970	100.0%	CCV3	9.9980	100.0%	5/7/2021
CCV4	199.9960	100.0%	CCV4	9.9978	100.0%	5/7/2021
CCV5	199.9965	100.0%	CCV5	9.9982	100.0%	5/7/2021
CCV6	199.9966	100.0%	CCV6	9.9983	100.0%	5/7/2021
~~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:	5/6/2021
Reviewed By:	JC	Date Reviewed:	5/10/21

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#: 378807 **Prep WorkFlow:** OrgHerbS(14) **Status:** Prepped
Team: Semivoa GC/GTRIGG **Prep Method:** Method **Prep Date/Time:** ~~5/6/21 14:06~~ 5.13.21 1112
Number of Copies to make: 1

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2104778-001	USMPDI-017SC-B-00-02-210429	.01	8151A/HERB		Sediment	30.5650g	50.00mL	
2	K2104778-002	USMPDI-017SC-B-02-04-210429	.01	8151A/HERB		Sediment	30.9140g	50.00mL	
3	K2104778-003	USMPDI-017SC-B-04-06-210429	.01	8151A/HERB		Sediment	30.6440g	50.00mL	
4	KQ2107591-01	K2104778-003 MS	.01	8151A/HERB		Solid	30.4540g	50.00mL	
5	KQ2107591-02	K2104778-003 DMS	.01	8151A/HERB		Solid	30.4560g	50.00mL	
6	K2104778-004	USMPDI-017SC-B-06-08-210429	.01	8151A/HERB		Sediment	30.4370g	50.00mL	
7	K2104778-005	USMPDI-017SC-B-08-10-210429	.01	8151A/HERB		Sediment	30.0850g	50.00mL	
8	K2104778-006	USMPDI-017SC-B-10-12-210429	.01	8151A/HERB		Sediment	30.1320g	50.00mL	
9	K2104778-007	USMPDI-017SC-B-12-14-210429	.01	8151A/HERB		Sediment	30.8700g	50.00mL	
10	K2104778-008	USMPDI-017SC-B-14-16-210429	.01	8151A/HERB		Sediment	30.0030g	50.00mL	
11	K2104778-009	USMPDI-017SC-B-16-17.8-210429	.01	8151A/HERB		Sediment	30.4390g	50.00mL	
12	K2104778-010	USMPDI-1017SC-B-12-14-210429	.01	8151A/HERB		Sediment	30.6220g	50.00mL	
13	K2104778-011	USMPDI-020SC-B-00-02-210429	.01	8151A/HERB		Sediment	30.2900g	50.00mL	
14	K2104778-012	USMPDI-020SC-B-02-05-210429	.01	8151A/HERB		Sediment	30.8190g	50.00mL	
15	K2104778-013	USMPDI-020SC-B-05-07-210429	.01	8151A/HERB		Sediment	30.2930g	50.00mL	
16	K2104778-014	USMPDI-020SC-B-07-10-210429	.01	8151A/HERB		Sediment	30.0410g	50.00mL	
17	K2104778-015	USMPDI-020SC-B-10-13-210429	.01	8151A/HERB		Sediment	30.9170g	50.00mL	
18	KQ2107591-03	LCS		8151A/HERB		Solid	30.0000g	50.00mL	
19	KQ2107591-04	MB		8151A/HERB		Solid	30.9170g	50.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate Inventory ID 216336 Logbook Ref: Penta02-26H Expires On: 09/30/2021

K2104778-001	1,000.00µL	K2104778-002	1,000.00µL	K2104778-003	1,000.00µL	K2104778-004	1,000.00µL	K2104778-005	1,000.00µL	K2104778-006	1,000.00µL
K2104778-007	1,000.00µL	K2104778-008	1,000.00µL	K2104778-009	1,000.00µL	K2104778-010	1,000.00µL	K2104778-011	1,000.00µL	K2104778-012	1,000.00µL
K2104778-013	1,000.00µL	K2104778-014	1,000.00µL	K2104778-015	1,000.00µL	KQ2107591-01	1,000.00µL	KQ2107591-02	1,000.00µL	KQ2107591-03	1,000.00µL
KQ2107591-04	1,000.00µL										

+ Spike @ 1mL

Preparation Steps

Step:	Weigh	Step:	Extraction	Step:	Derivitization	Step:	Final Volume
Started:	~~5/6/21 14:06~~ 5.12.21 1500	Started:	~~5/19/21 10:43~~ 5.13.21 1112	Started:	5/20/21 13:00	Started:	5/20/21 15:40
Finished:	~~5/7/21 15:38~~ 5.12.21 1500	Finished:	5/19/21 11:55	Finished:	5/20/21 13:30	Finished:	5/20/21 15:40
By:	~~GTRIGG~~ RZIELINSKI	By:	GTRIGG	By:	GTRIGG	By:	GTRIGG
Comments		Comments		Comments		Comments	

05.28.21

Preparation Information Benchsheet

Prep Run#: 378807
Team: Semivoa GC/GTRIGG

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 5/6/21 14:06

Comments: Counter

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: 5/20/21

Received By: _____ Date: 5-24-21

~~Extracts Examined~~
(Yes) No

Preparation Information Benchsheet

Prep Run#: 378807 **Prep WorkFlow:** OrgHerbS(14) [redacted] **Status:** Draft
Team: Semivoa GC/GTRIGG **Prep Method:** **Prep Date/Time:** 5/6/21 02:06 PM
Number of Copies to make: 1

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. g	pH	Int. Vol ml	Final Vol ml	Surr Amt µL	Spike Amt µL
1	**K2104778-001**	USMPDI-017SC-B-00-02-210429	.01		8151A / HERB	Sediment	30.565		10	50	1000	
2	**K2104778-002**	USMPDI-017SC-B-02-04-210429	.01		8151A / HERB	Sediment	30.914					
3	**K2104778-003**	USMPDI-017SC-B-04-06-210429	.01		8151A / HERB	Sediment	30.642					
4	**KQ2107591-01**	K2104778-003 MS	.01		8151A / HERB	Solid	30.454					1000
5	**KQ2107591-02**	K2104778-003 DMS	.01		8151A / HERB	Solid	30.456					1000
6	**K2104778-004**	USMPDI-017SC-B-06-08-210429	.01		8151A / HERB	Sediment	30.437					
7	**K2104778-005**	USMPDI-017SC-B-08-10-210429	.01		8151A / HERB	Sediment	30.085					
8	**K2104778-006**	USMPDI-017SC-B-10-12-210429	.01		8151A / HERB	Sediment	30.132					
9	**K2104778-007**	USMPDI-017SC-B-12-14-210429	.01		8151A / HERB	Sediment	30.870					
10	**K2104778-008**	USMPDI-017SC-B-14-16-210429	.01		8151A / HERB	Sediment	30.003					
11	**K2104778-009**	USMPDI-017SC-B-16-17.8-210429	.01		8151A / HERB	Sediment	30.439					
12	**K2104778-010**	USMPDI-1017SC-B-12-14-210429	.01		8151A / HERB	Sediment	30.622					
13	**K2104778-011**	USMPDI-020SC-B-00-02-210429	.01		8151A / HERB	Sediment	30.240					
14	**K2104778-012**	USMPDI-020SC-B-02-05-210429	.01		8151A / HERB	Sediment	30.819					
15	**K2104778-013**	USMPDI-020SC-B-05-07-210429	.01		8151A / HERB	Sediment	30.293					
16	**K2104778-014**	USMPDI-020SC-B-07-10-210429	.01		8151A / HERB	Sediment	30.041					
17	**K2104778-015**	USMPDI-020SC-B-10-13-210429	.01		8151A / HERB	Sediment	30.917					
18	**KQ2107591-03**	LCS	—	—	8151A / HERB	Solid	30.000					1000
19	**KQ2107591-04**	MB	—	—	8151A / HERB	Solid	30.917					

Comments:

Surrogate ID: Penta02-26H Acetone 5PPm 1000µL KP 9:30:21

Spike ID: Penta02-29E Acetone 5-500Ppm 1000µL AP 11-3-21

Witnessed By: BG Willard

Analyst:

Assisted By:

Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # 4778 **Work Group #** 7591

Acidified Sulfate Lot # DZ03-875 Matrix Sand Lot # 201468

Ethyl Ether Lot # EA001-US Hydrochloric Acid Lot # 204209

Wrist Action Shaker Start (time/date/initial): 1112 5/13/21 CA

Wrist Action Shaker Stop (time/date/initial): 1219 5/13/21 CA

N-Evap (time/date/initial): 0930 5/18/21 N-Evap Thermometer ID: XSum04

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

Saponification Start (time/date/initial): 1210 5/18/21 CA 37% KOH Lot # DZ03-8KN

Saponification Stop (time/date/initial): 1310 5/18/21 CA

Extraction Start (time/date/initial): 1043 5/19/21 CA Sulfuric Acid Lot # DZ03-97K

Extraction Stop (time/date/initial): 1155 5/19/21 CA

Derivatization Start (time/date/initial): 1300 5/~~19~~20/21 CA Diazomethane Lot # DZ03-44K

Derivatization Stop (time/date/initial): 1330 5/20/21 CA

Pipette (5 mL) Lot # 08420647

Solvent Exchange to Iso-Octane (time/date/initial): 1340 5/20/21 CA

Iso-Octane Lot # DZ155-US N-Evap Thermometer ID: XSum004

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

Pipette (1 mL) Lot # HH136

Vial: Red Vial Storage: Counter

Archive Storage: Chuck

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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000036.D\
Lab ID: K2104778-001
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 01:26:37
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000036.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 01:26:37	**Vial:**	7
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-001	**Raw Units:**	ppb

Bottle ID:	K2104778-001.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.05 +0.01	9.69	78064284	37163830	97.795	81.918	98	82	82	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	4.5 U	Y
2,4-D	11.26 -0.01	10.90	2411685	2264739	3.609	5.595	11U	17J	15 U	Y

Prep Amount:	30.5650 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	53.00

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000036.D Vial: 52
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:26:37 Operator: TAP
Sample : K2104778-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:15:20 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.047	9.690	78064284	37163830	97.795	81.918
		Target Compounds						
1)	m	Dalapon	5.630f	5.223	1074577	483883	1.048	0.870
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D. d
4)	m	MCPP	10.457	9.967	461450	9138345	N.D.	4942.353
5)	m	MCPA	10.613	10.240	635244	877405	N.D.	N.D.
6)	m	Dichloroprop	10.973f	10.603	1038154	1493846	1.463	0.952 #
7)	m	2,4-D	11.260	10.900	2411685	2264739	3.609	5.595 #
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D. d
9)	m	2,4,5-T	12.530f	12.130	3379718	945019	1.565	0.761 #
10)	m	2,4-DB	13.050	12.703	1539595	256834	7.002	1.942 #
11)	m	Dinoseb	14.300	12.997f	747072	2362402	0.384	2.063 #

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

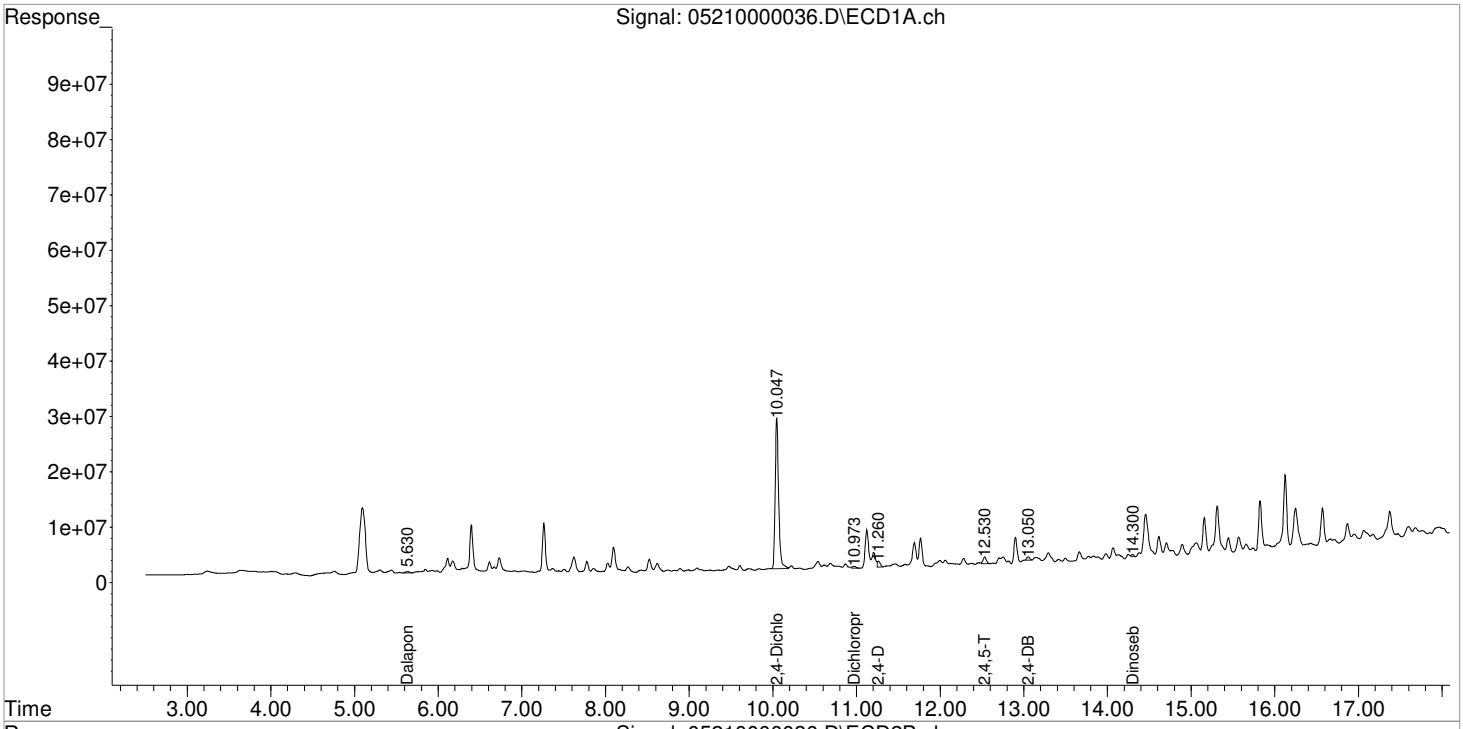
Quantitation Report (QT Reviewed)

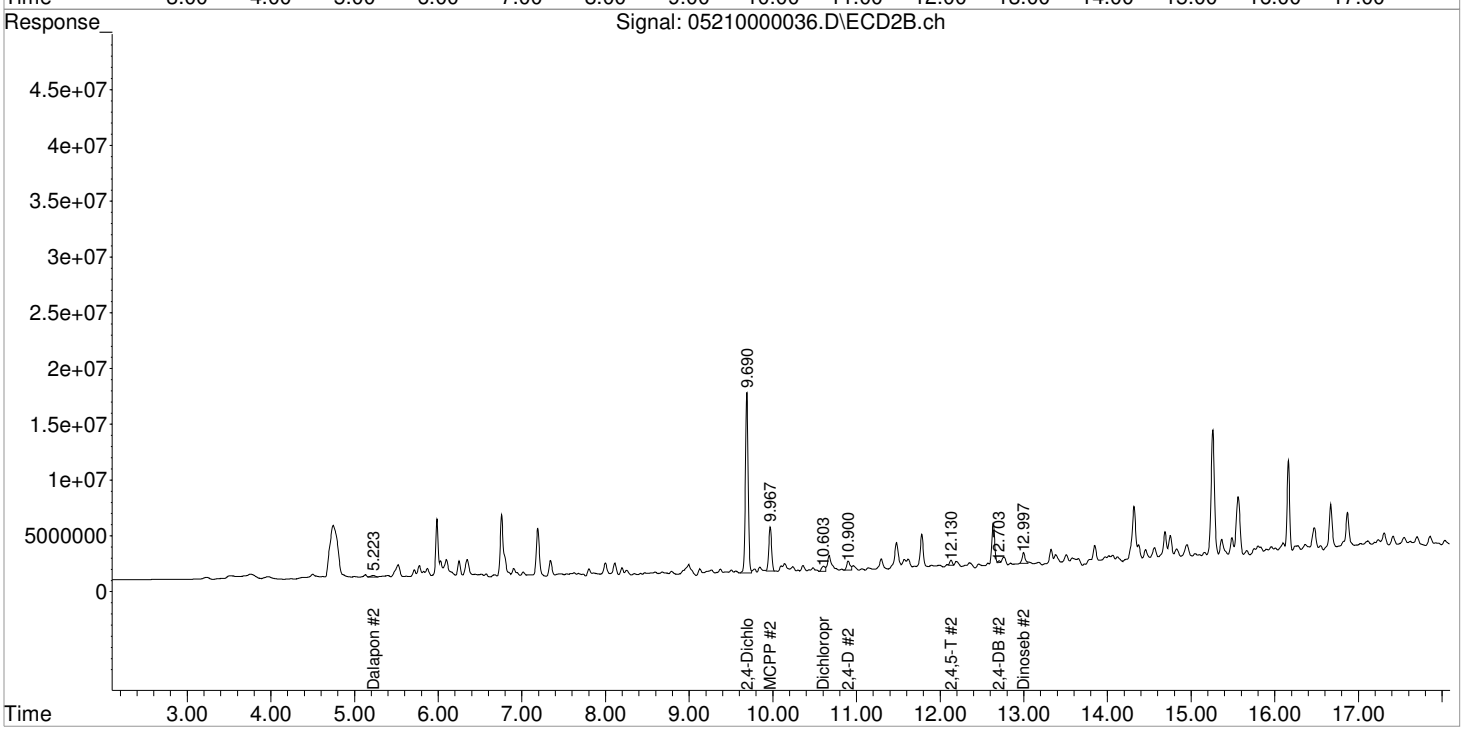
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000036.D Vial: 52
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:26:37 Operator: TAP
Sample : K2104778-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:15:20 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000037.D\
Lab ID: K2104778-002
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 01:50:36
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000037.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 01:50:36	**Vial:**	8
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-002	**Raw Units:**	ppb

Bottle ID:	K2104778-002.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.05 +0.01	9.69	72372691	33716874	90.665	74.320	91	74	74	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	4.0 U	Y
2,4-D	11.27	10.91 +0.01	976660	1495065	1.462	3.694	4.0U	10U	13 U	Y

Prep Amount:	30.9140 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	59.20

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000037.D Vial: 53
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:50:36 Operator: TAP
Sample : K2104778-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:18:13 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.047	9.687	72372691	33716874	90.665	74.320m
		Target Compounds						
1)	m	Dalapon	5.627f	5.223	756933	476392	0.739	0.857
3)	m	Dicamba	10.313	9.843f	1449956	901497	0.561	0.613
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D. d
5)	m	MCPA	10.613	10.237	1091403	1095273	N.D.	N.D.
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7)	m	2,4-D	11.273	10.907	976660	1495065	1.462m	3.694m#
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D. d
9)	m	2,4,5-T	12.530f	12.127	2578900	1523368	1.194	1.226
10)	m	2,4-DB	13.050	12.703	1815623	1229842	8.257	9.300
11)	m	Dinoseb	14.247f	12.993f	2136112	3349141	1.099	2.925 #

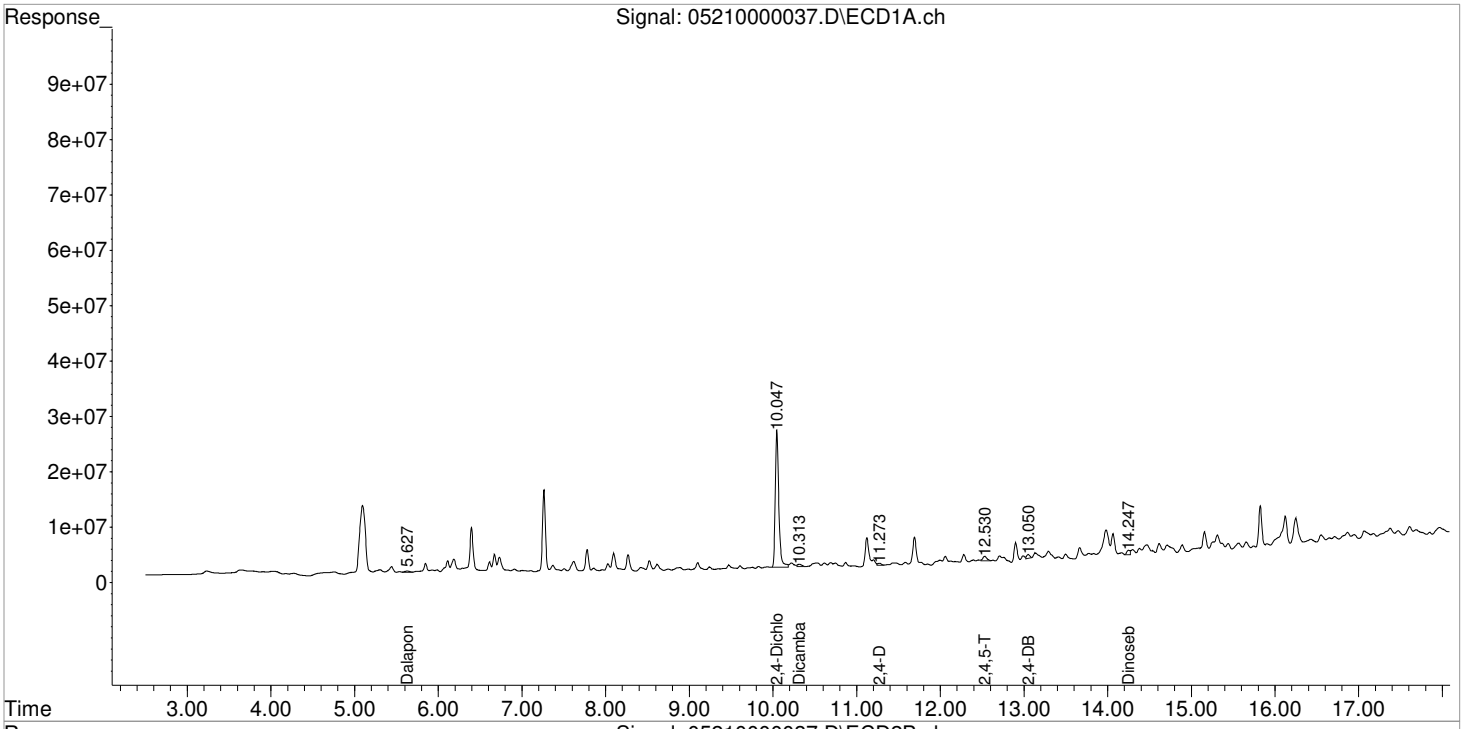
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

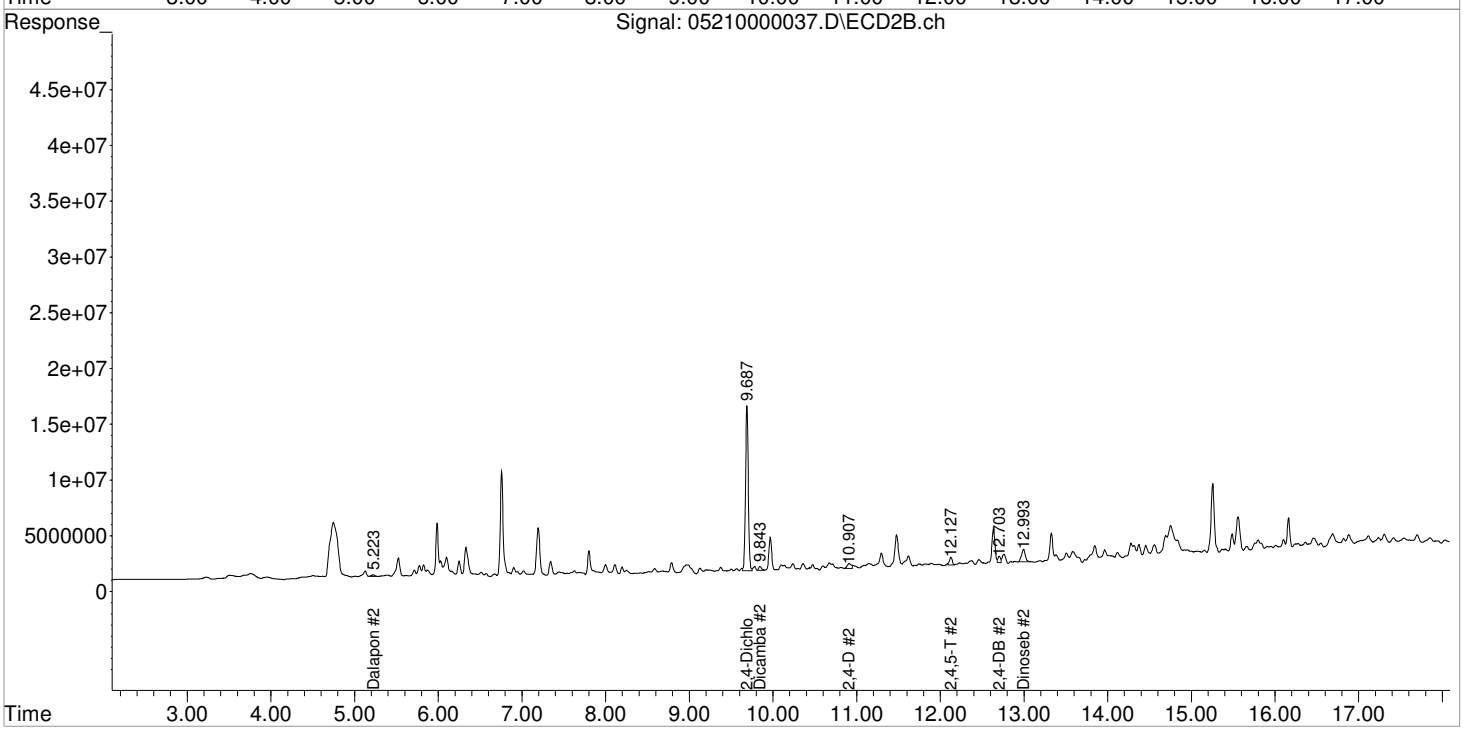
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000037.D Vial: 53
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:50:36 Operator: TAP
Sample : K2104778-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:18:13 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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





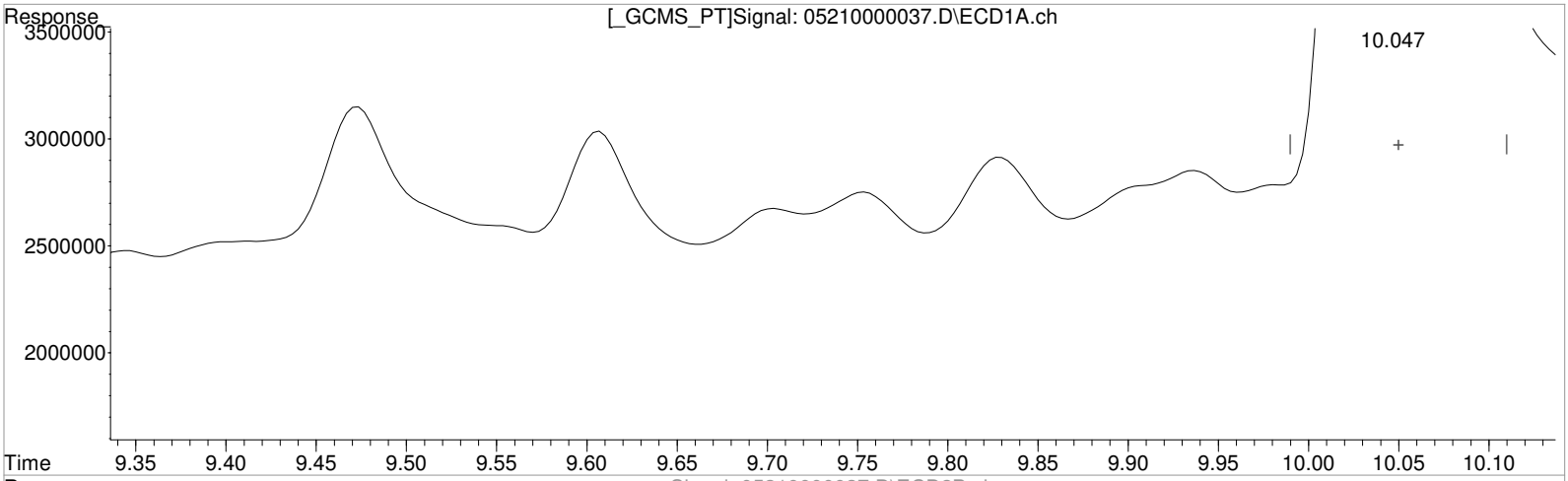
Quantitation Report (Qedit)

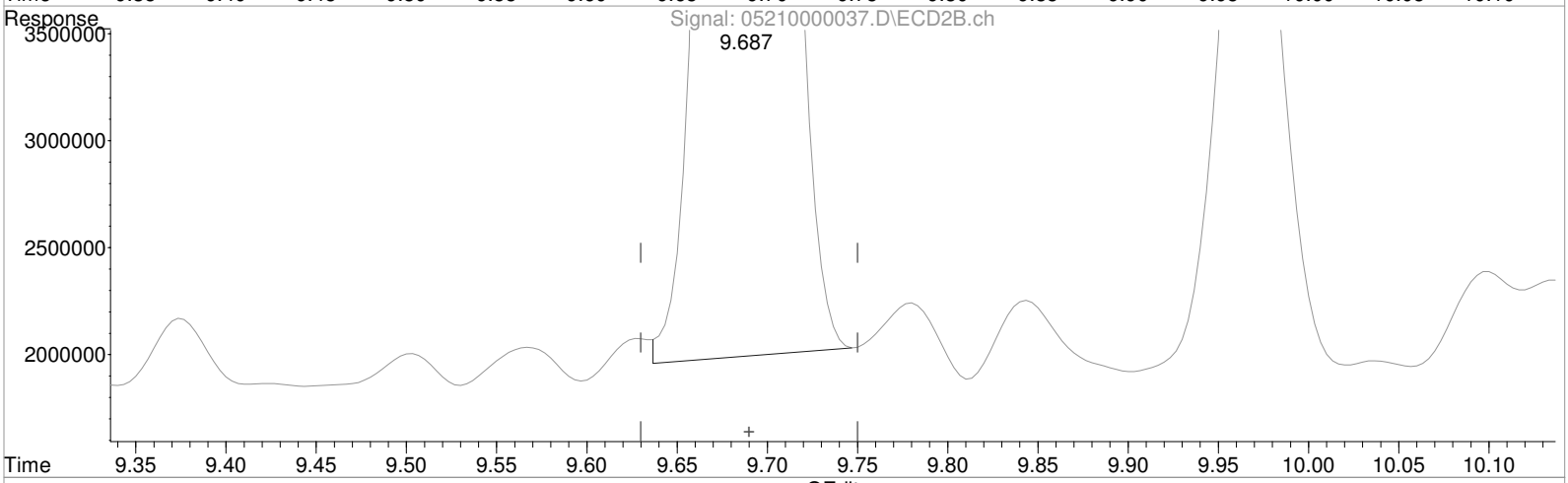
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000037.D Vial: 53
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:50:36 Operator: TAP
Sample : K2104778-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:01 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.047min 90.665 ppb

response 72372691

Manual Integration:

Before

05/22/21

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

9.687min 72.485 ppb

response 32884328

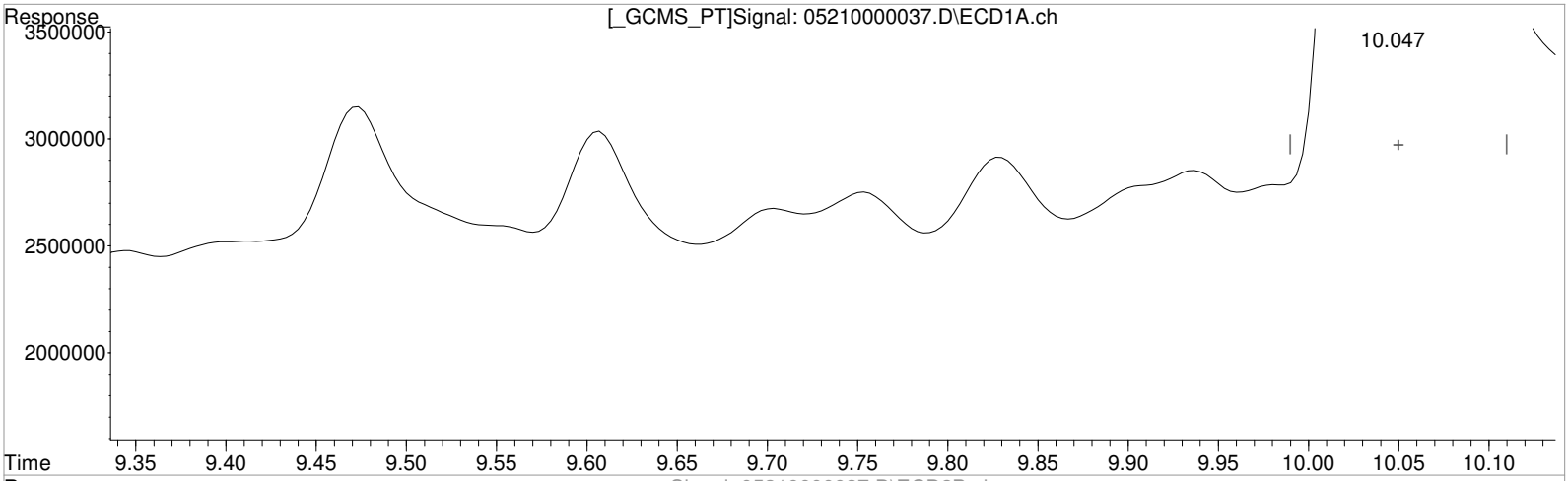
(+) = Expected Retention Time

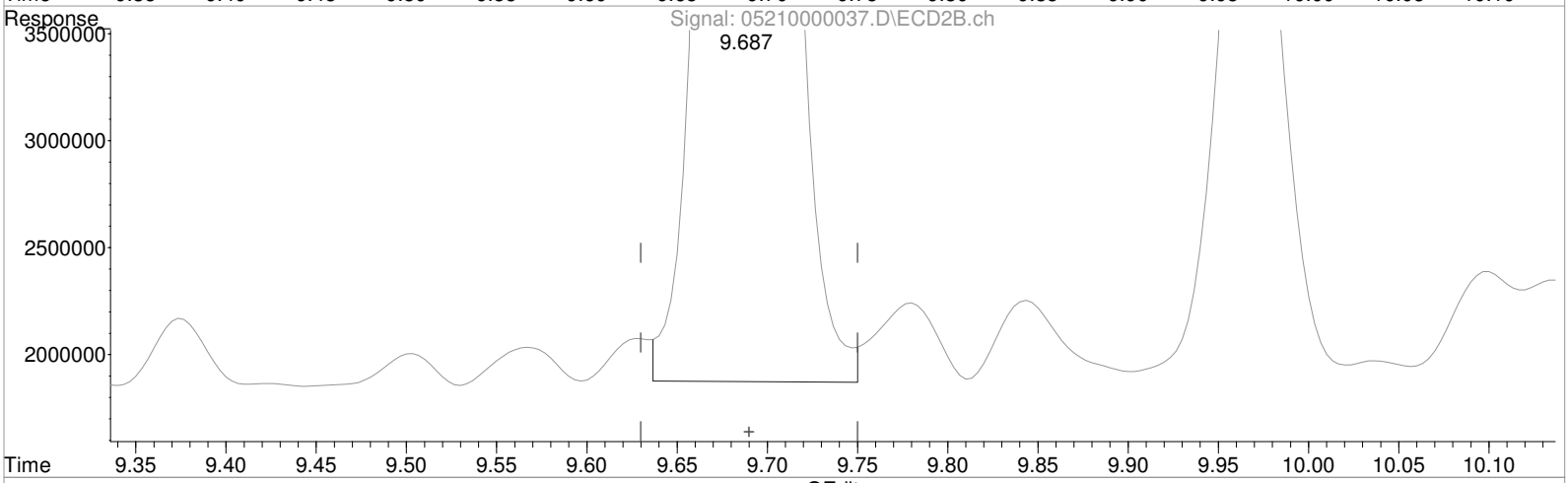
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000037.D Vial: 53
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:50:36 Operator: TAP
Sample : K2104778-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:01 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.047min 90.665 ppb

response 72372691

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

9.687min 74.320 ppb m

response 33716874

Manual Integration:

After

Baseline/Shoulder

05/22/21

(+) = Expected Retention Time

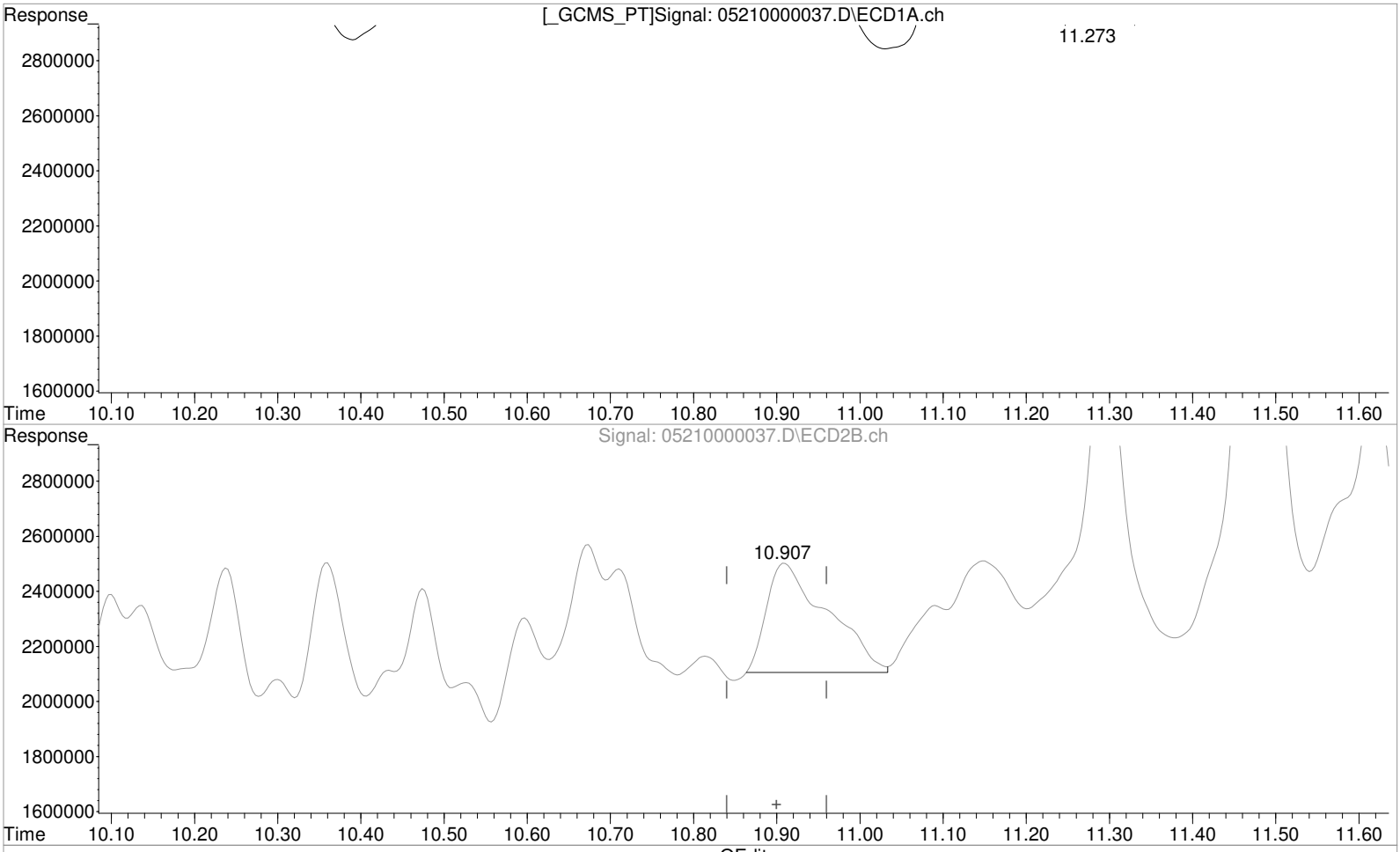
Quantitation Report (Qedit)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000037.D Vial: 53
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:50:36 Operator: TAP
Sample : K2104778-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:01 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.273min 1.665 ppb

response 1112567

Manual Integration:

Before

05/22/21

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

10.907min 4.988 ppb

response 2018976

(+) = Expected Retention Time

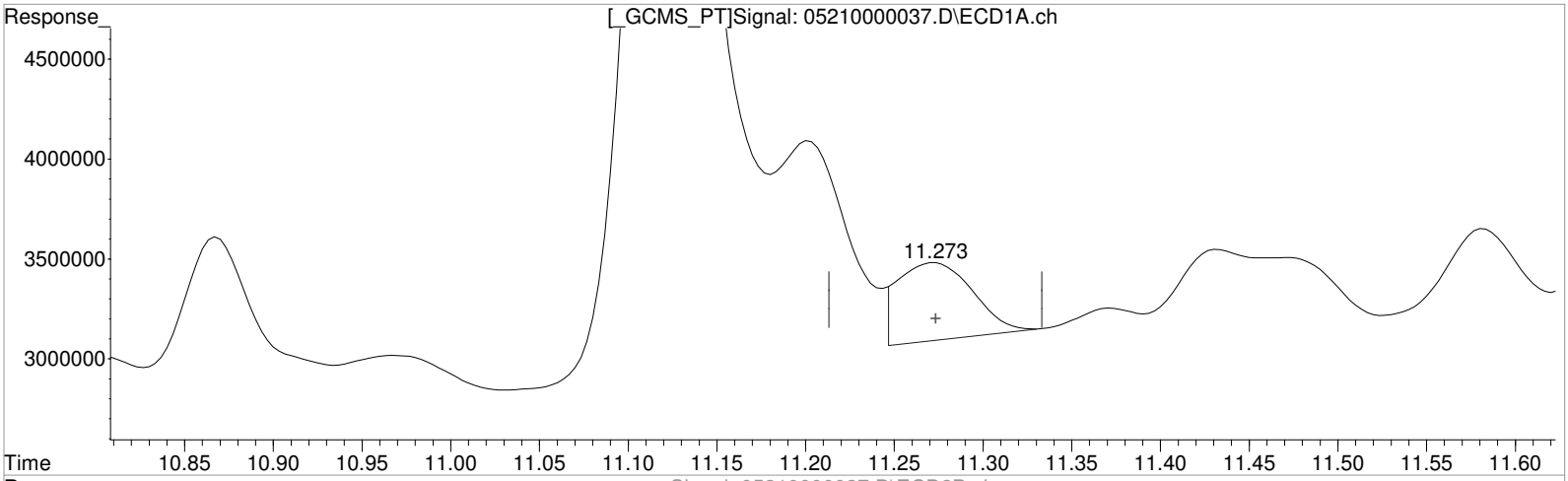
Quantitation Report (Qedit)

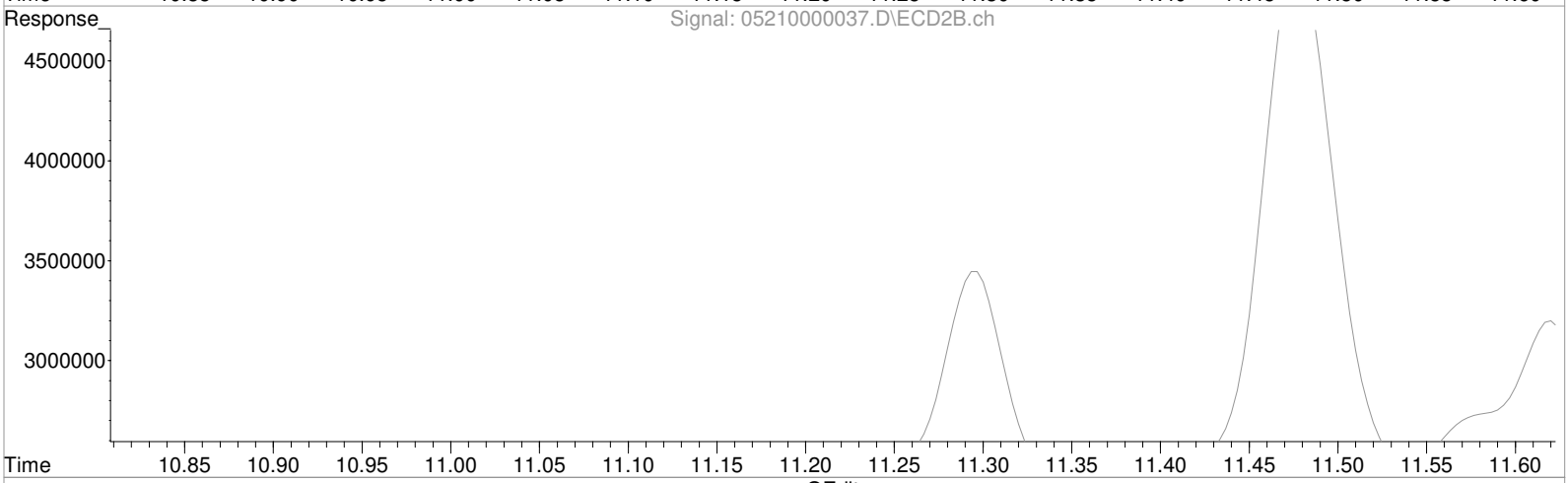
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000037.D Vial: 53
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:50:36 Operator: TAP
Sample : K2104778-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:01 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.273min 1.665 ppb

response 1112567

Manual Integration:

Before

05/22/21

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

10.907min 3.694 ppb m

response 1495065

(+) = Expected Retention Time

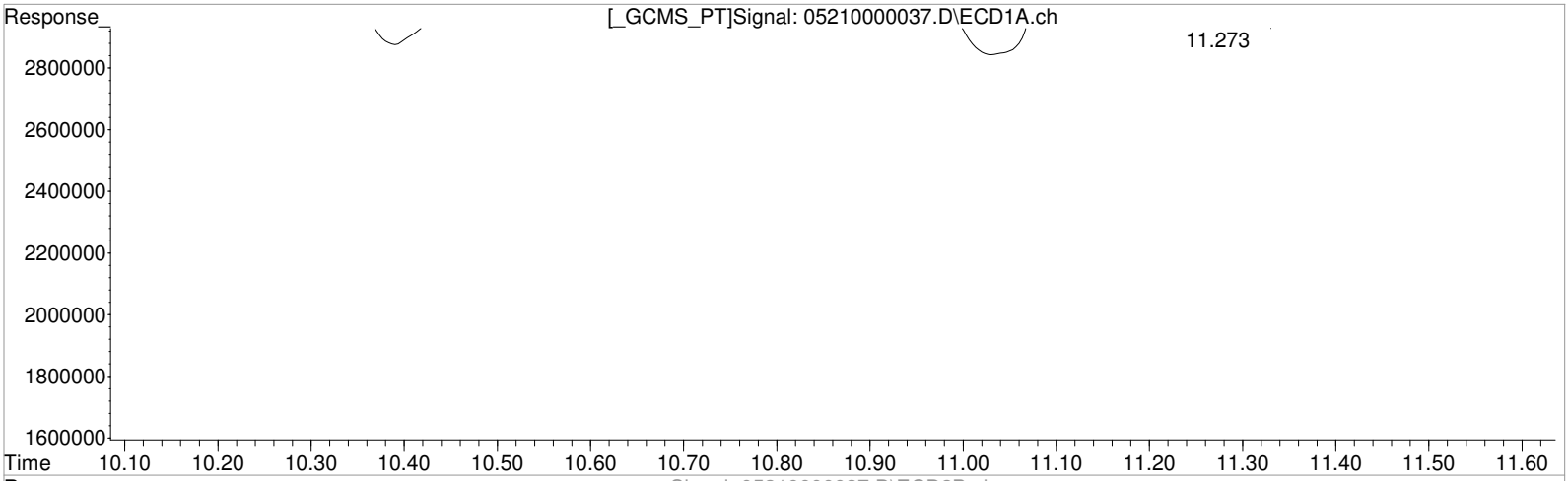
Quantitation Report (Qedit)

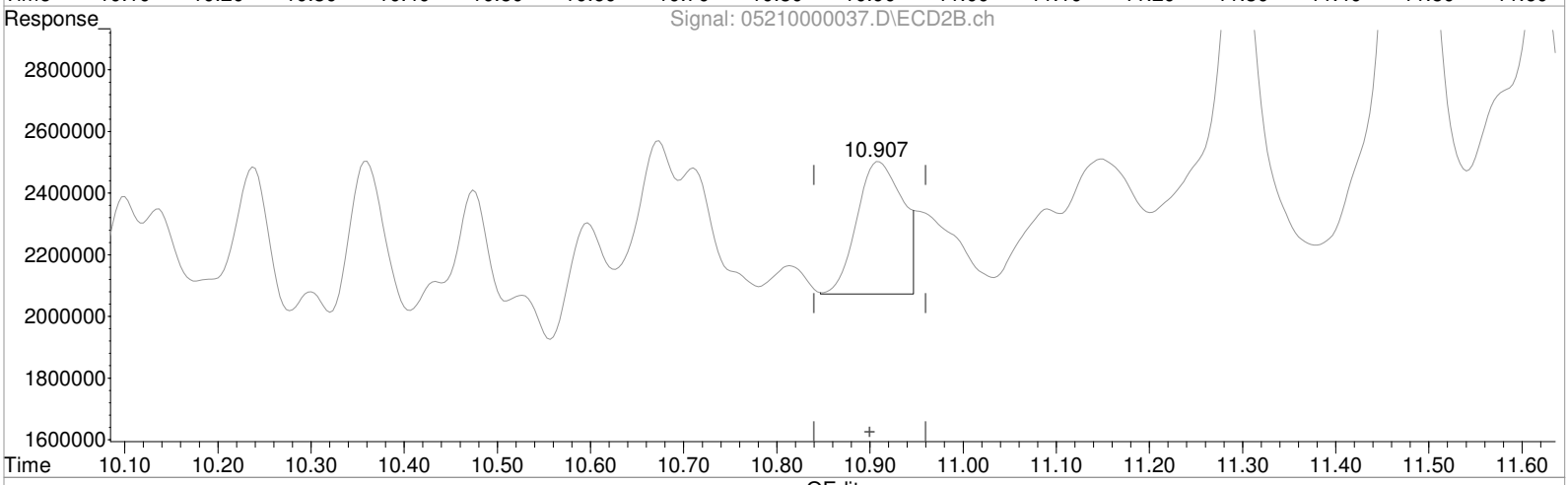
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000037.D Vial: 53
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:50:36 Operator: TAP
Sample : K2104778-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:01 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.273min 1.665 ppb

response 1112567

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

10.907min 3.694 ppb m

response 1495065

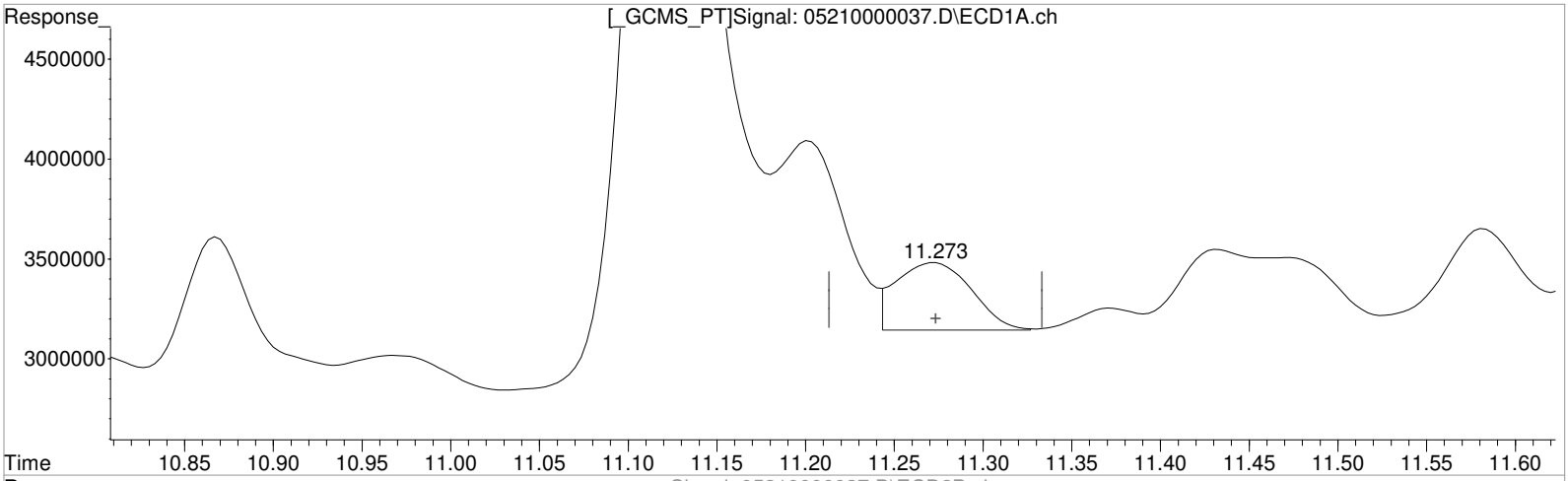
(+) = Expected Retention Time

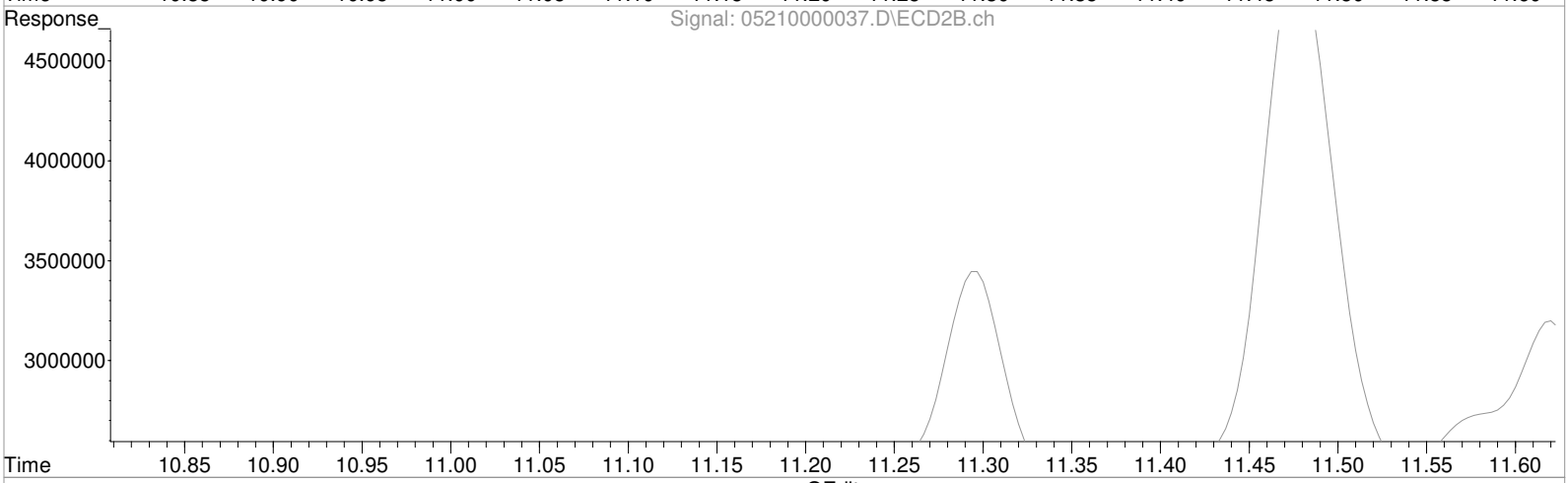
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000037.D Vial: 53
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:50:36 Operator: TAP
Sample : K2104778-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:01 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.273min 1.462 ppb m

response 976660

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

10.907min 3.694 ppb m

response 1495065

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000038.D\
Lab ID: K2104778-003
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 02:14:40
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000038.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 02:14:40	**Vial:**	9
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-003	**Raw Units:**	ppb

Bottle ID:	K2104778-003.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	53919923	24840788	67.548	54.755	68	55	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	4.0 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	13 U	Y

Prep Amount:	30.6440 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	59.00

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000038.D Vial: 54
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 02:14:40 Operator: TAP
Sample : K2104778-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:24:34 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	53919923	24840788	67.548	54.755	
		Target Compounds							
1)	m	Dalapon	5.630f	5.220	697789	534887	0.681	0.962	#
3)	m	Dicamba	10.317	9.843f	1304861	1054027	0.505	0.717	#
4)	m	MCPP	10.477f	9.967	6670089	6946612	1409.332	3577.286	#
5)	m	MCPA	10.623	10.237	1146621	3219449	N.D.	379.512	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	d
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	d
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	d
9)	m	2,4,5-T	12.530f	12.127	2046916	2100949	0.948	1.691	#
10)	m	2,4-DB	13.050	12.703	3529925	95882	16.053	0.725	#
11)	m	Dinoseb	14.250f	12.997f	4787137	3215242	2.463	2.808	

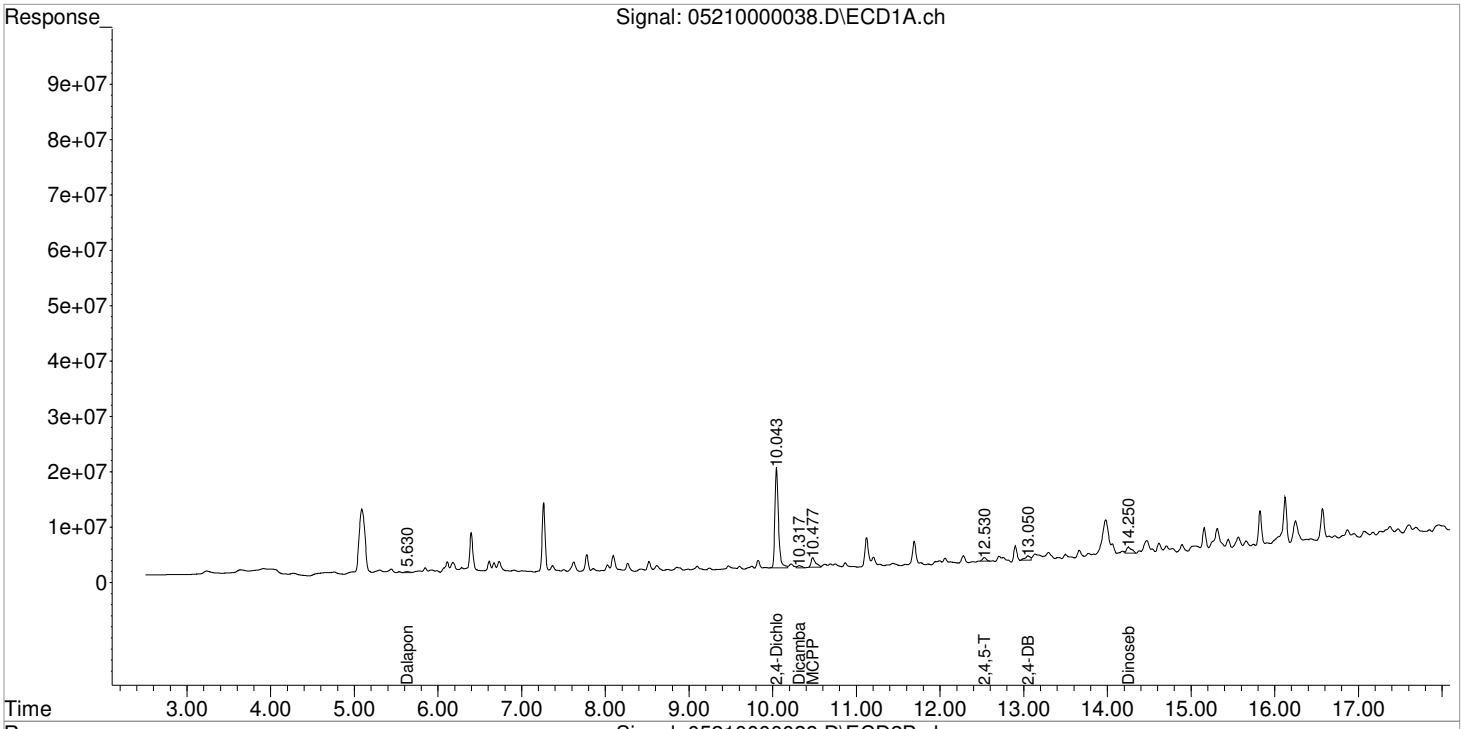
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

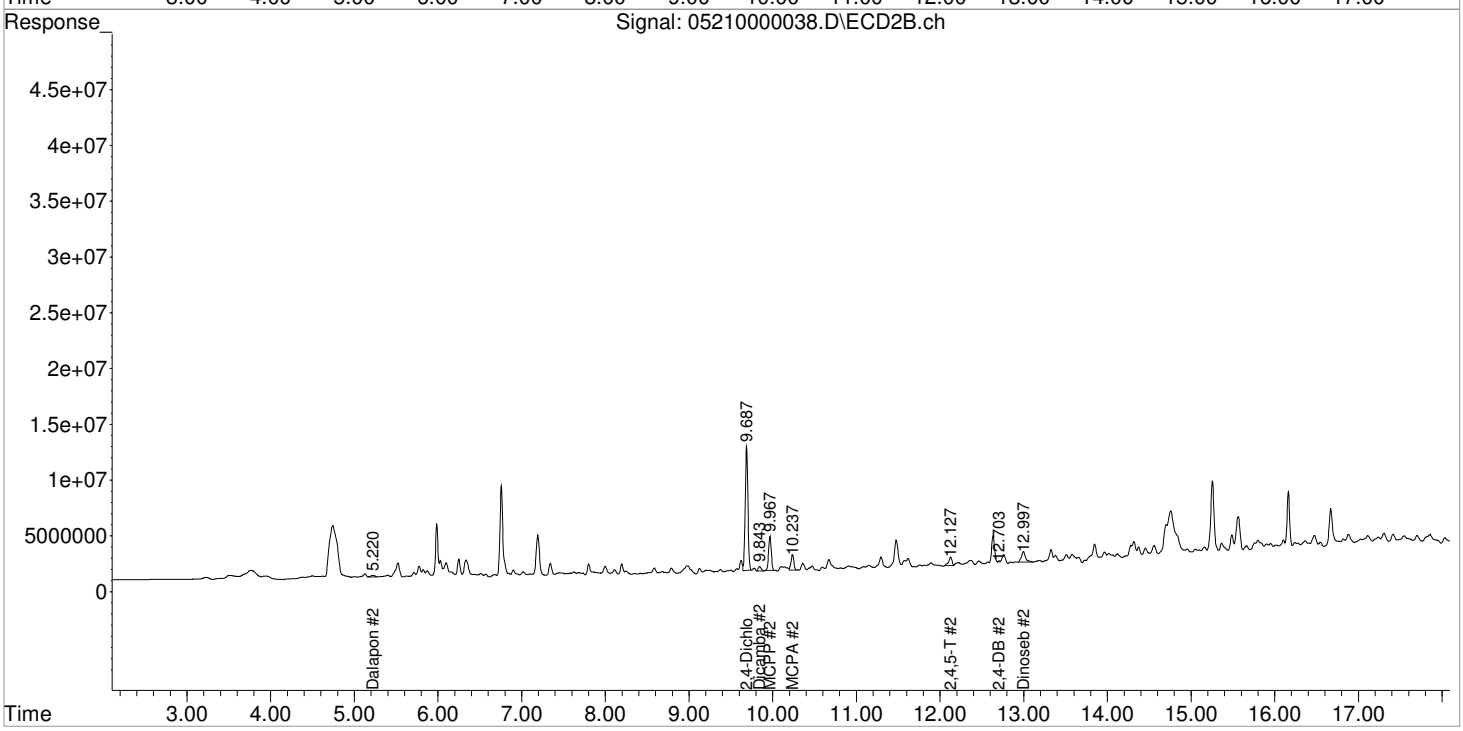
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000038.D Vial: 54
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 02:14:40 Operator: TAP
Sample : K2104778-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:24:34 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000041.D\
Lab ID: K2104778-004
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 03:26:33
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000041.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 03:26:33	**Vial:**	10
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-004	**Raw Units:**	ppb

Bottle ID:	K2104778-004.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	66149714	33312955	82.869	73.430	83	73	73	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	4.2 U	Y
2,4-D	11.30 +0.03	10.92 +0.02	7308254	1615667	10.937	3.992	31J	11U	14 U	Y

Prep Amount:	30.4370 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	57.20

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 5/24/21 13:42
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Quantitation Report (QT Reviewed)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000041.D Vial: 57
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:26:33 Operator: TAP
Sample : K2104778-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:32:09 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	66149714	33312955	82.869	73.430	
		Target Compounds							
1)	m	Dalapon	5.587	5.220	1678840	607741	1.638	1.093	#
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D.	d
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.	d
5)	m	MCPA	10.617	10.247f	810384	625271	N.D.	N.D.	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	d
7)	m	2,4-D	11.300	10.917	7308254	1615667	10.937	3.992	#
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	
9)	m	2,4,5-T	12.527f	12.183	5204160	1711572	2.410	1.378	#
10)	m	2,4-DB	13.057	12.637f	4175712	8542679	18.990	64.602	#
11)	m	Dinoseb	14.250f	13.060	12157618	2468820	6.255	2.156	#

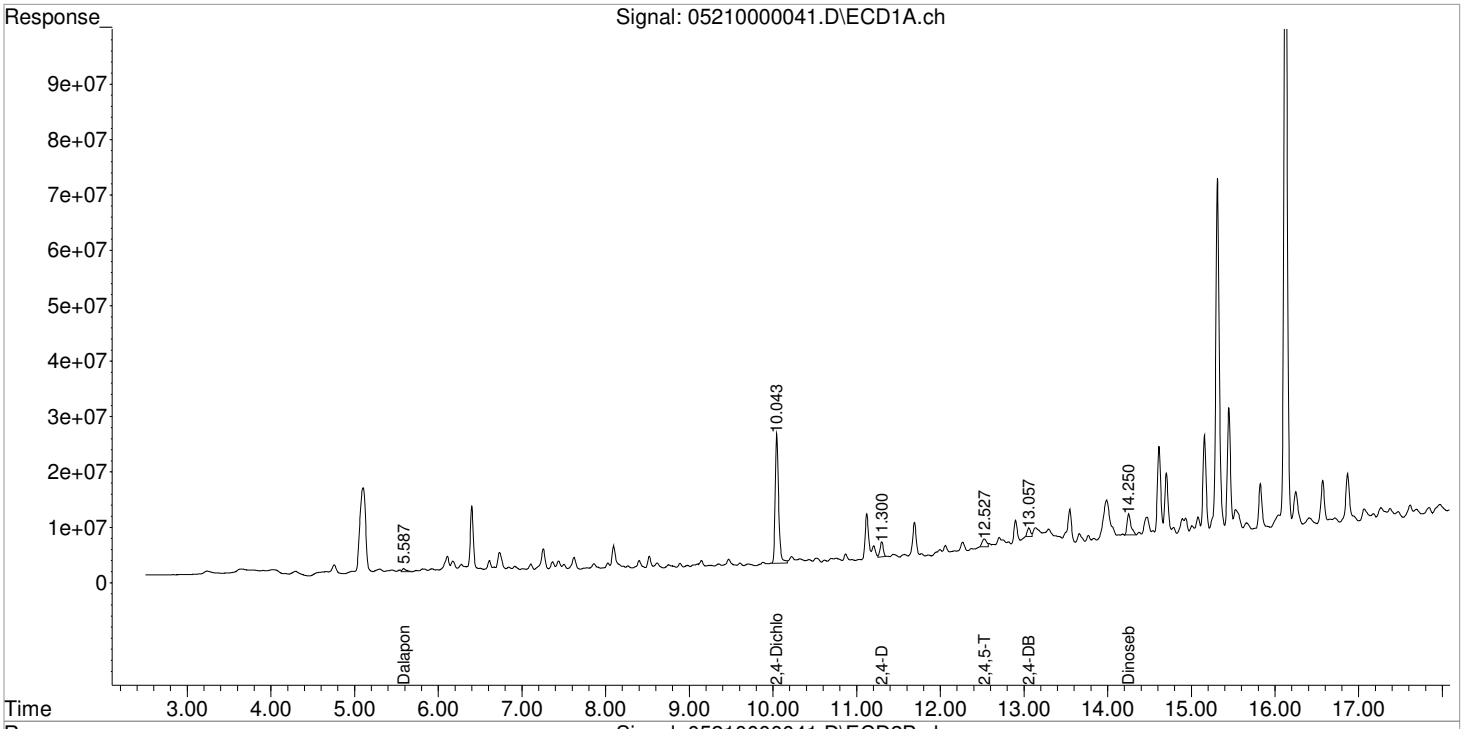
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

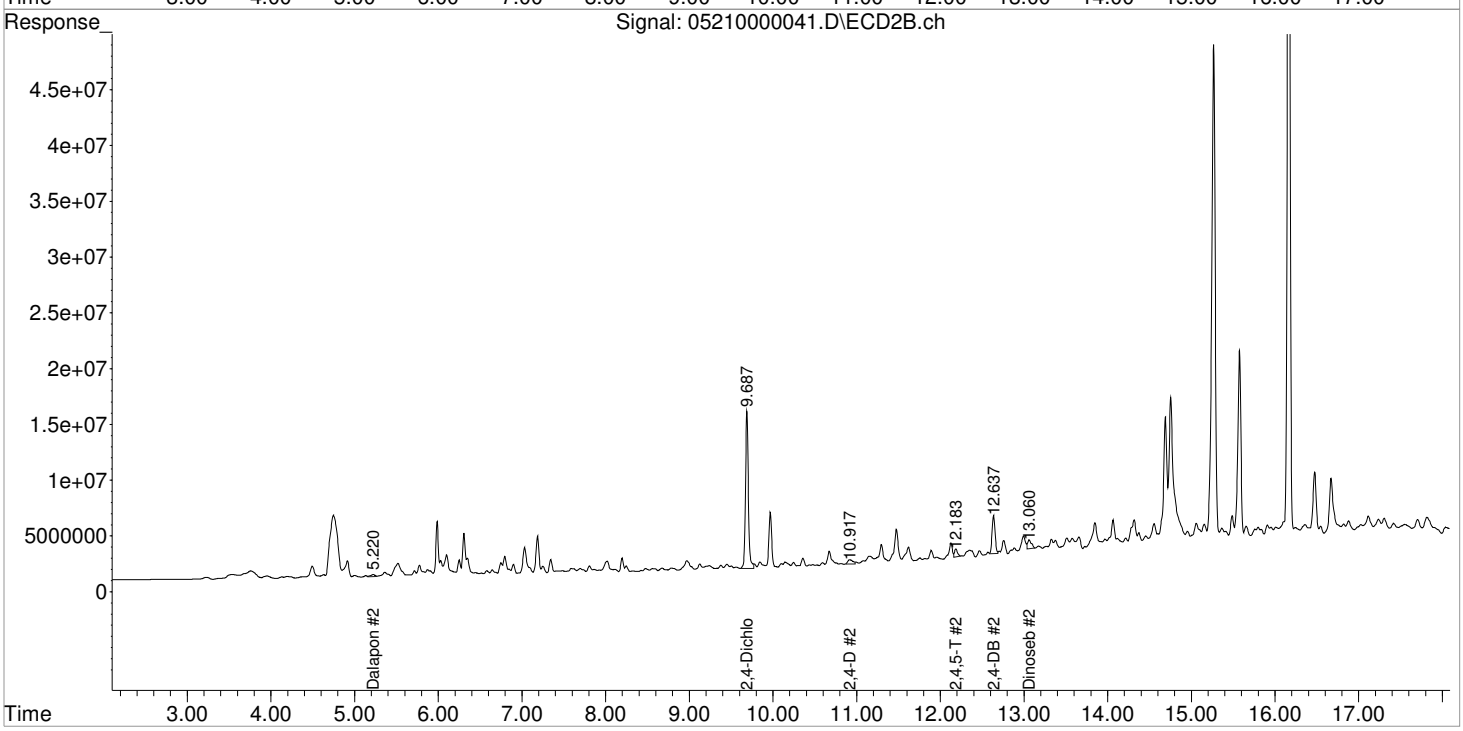
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000041.D Vial: 57
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:26:33 Operator: TAP
Sample : K2104778-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:32:09 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000042.D\
Lab ID: K2104778-005
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 03:50:42
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000042.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 03:50:42	**Vial:**	11
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-005	**Raw Units:**	ppb

Bottle ID:	K2104778-005.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	64336261	34105382	80.597	75.177	81	75	75	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	4.1 U	Y
2,4-D	11.30 +0.03	10.90	17226746	217982	25.781	0.539	72J	1.5U	13 U	Y

Prep Amount:	30.0850 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	59.10

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000042.D Vial: 58
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:50:42 Operator: TAP
Sample : K2104778-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:37:11 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	64336261	34105382	80.597m	75.177m
		Target Compounds						
1)	m	Dalapon	5.583	5.220	1839992	425863	1.795	0.766 #
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D. d
5)	m	MCPA	10.613	10.247f	1731576	570230	N.D.	N.D.
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7)	m	2,4-D	11.300	10.897	17226746	217982	25.781	0.539m#
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D. d
9)	m	2,4,5-T	12.533f	12.183	4856369	4969297	2.249	3.999 #
10)	m	2,4-DB	13.057	12.637f	3766452	7112683	17.129	53.788 #
11)	m	Dinoseb	14.250f	13.063	16258087	2462694	8.364	2.151 #

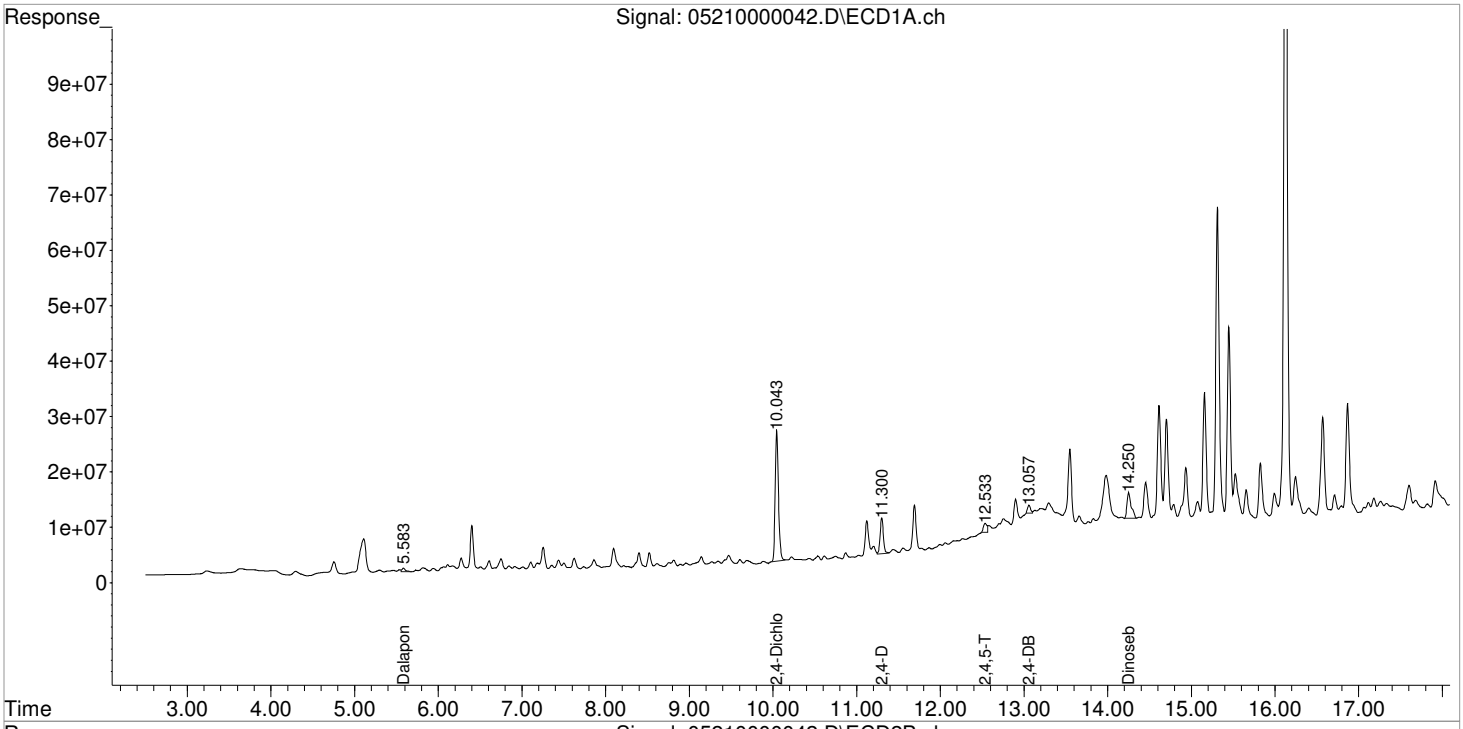
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

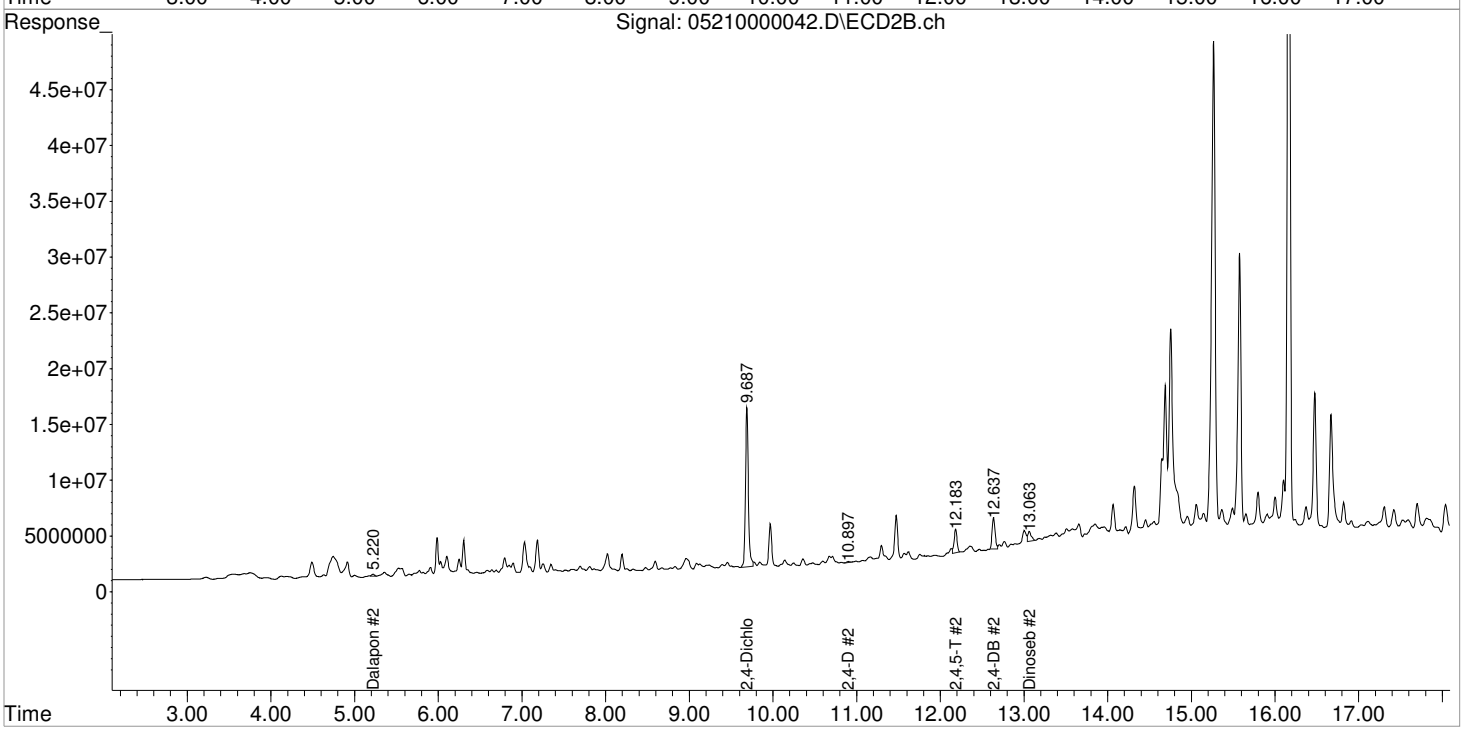
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000042.D Vial: 58
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:50:42 Operator: TAP
Sample : K2104778-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:37:11 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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





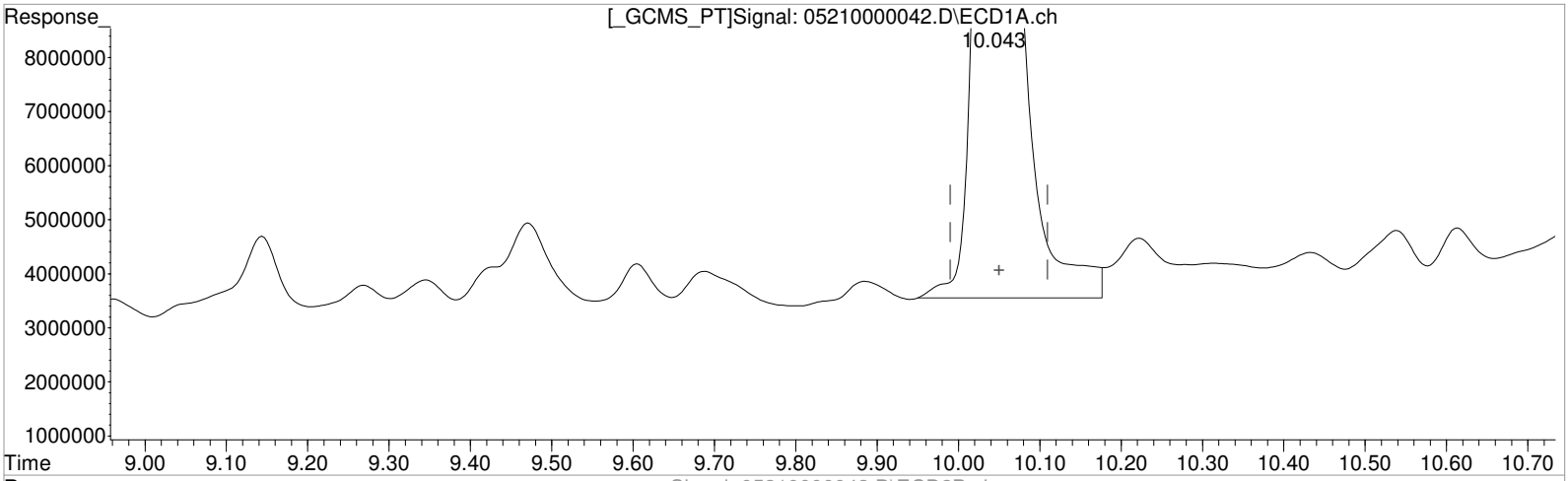
Quantitation Report (Qedit)

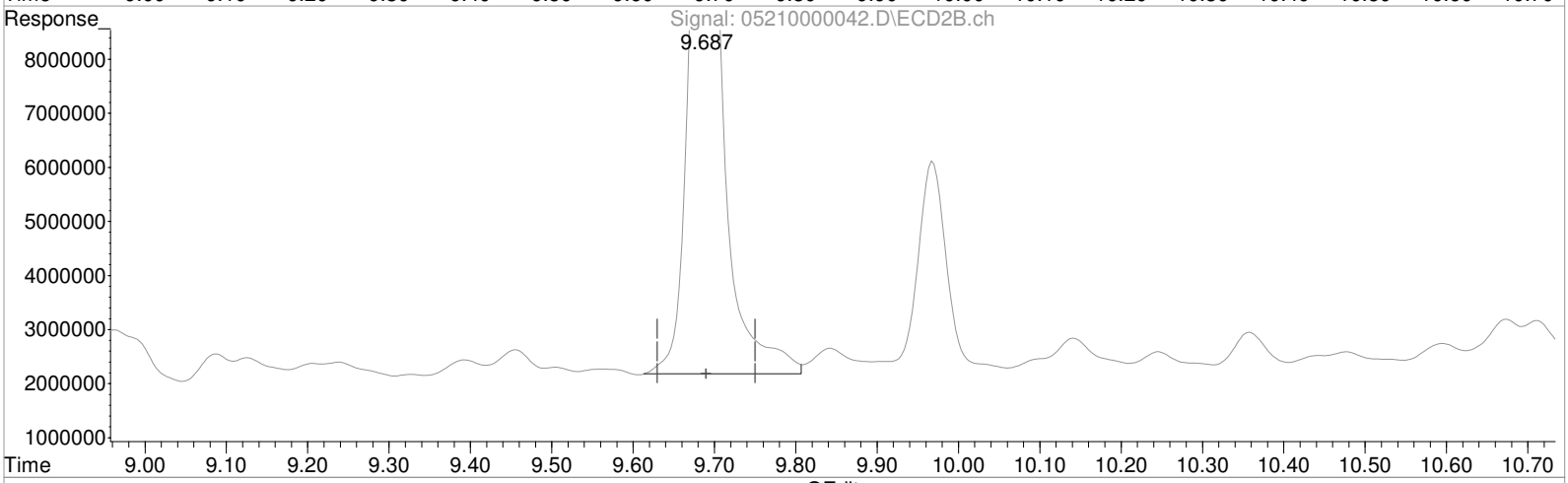
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000042.D Vial: 58
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:50:42 Operator: TAP
Sample : K2104778-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:16 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 87.134 ppb

response 69554212

Manual Integration:

Before

05/22/21

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

9.687min 78.292 ppb

response 35518965

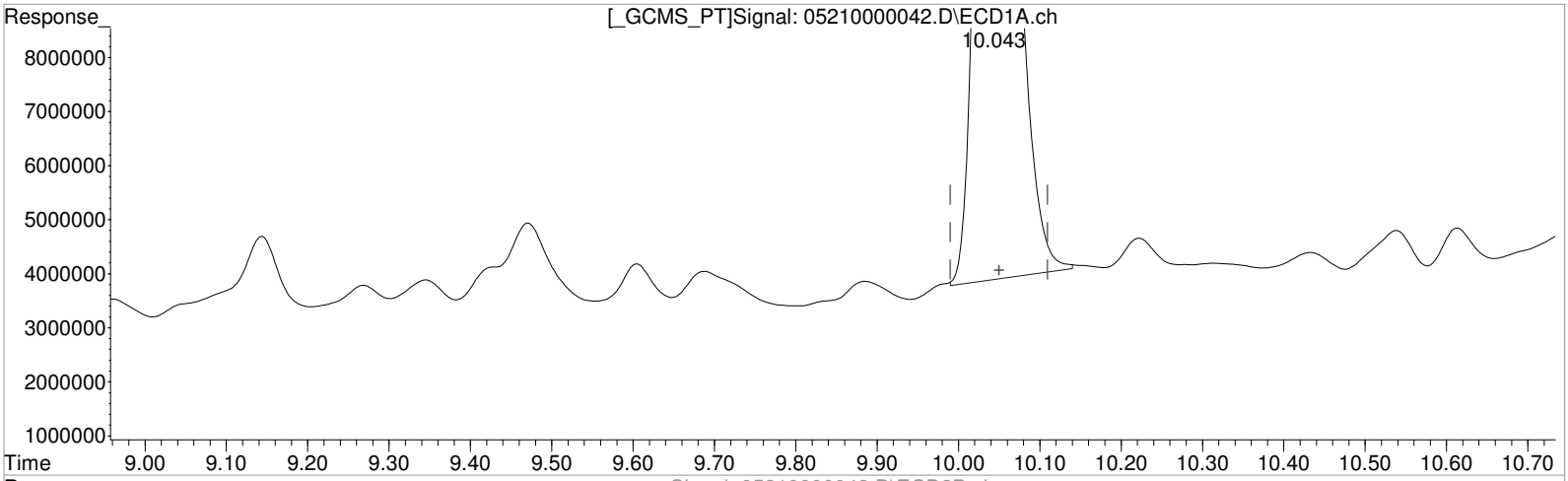
(+) = Expected Retention Time

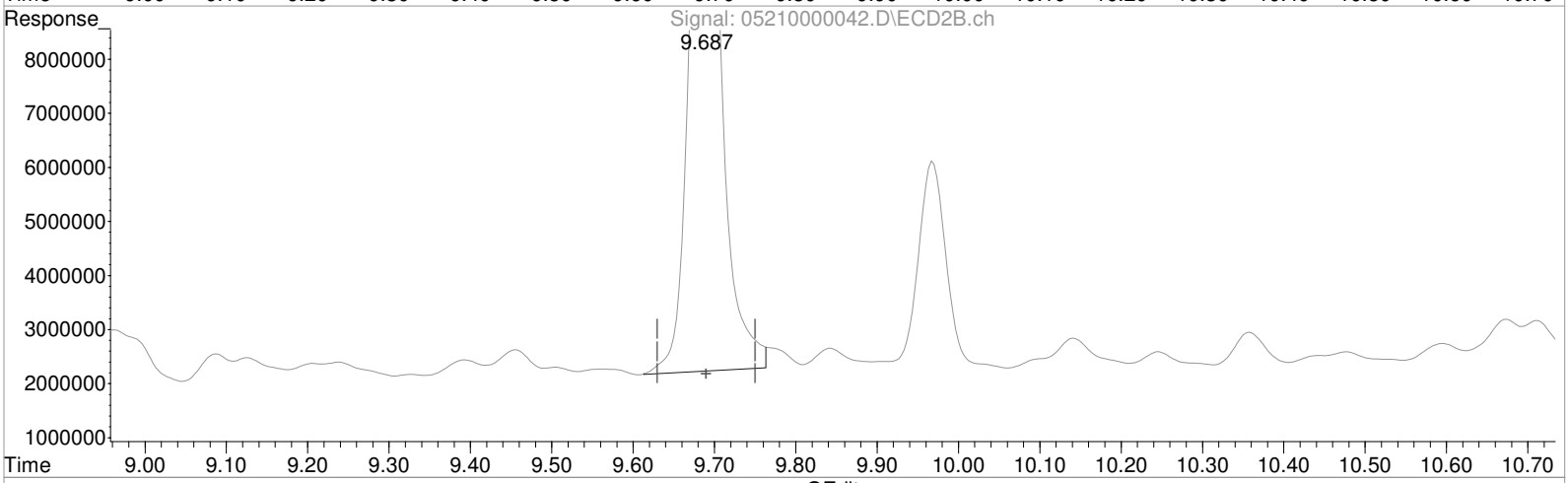
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000042.D Vial: 58
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:50:42 Operator: TAP
Sample : K2104778-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:16 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 80.597 ppb m

response 64336261

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

9.687min 75.177 ppb m

response 34105382

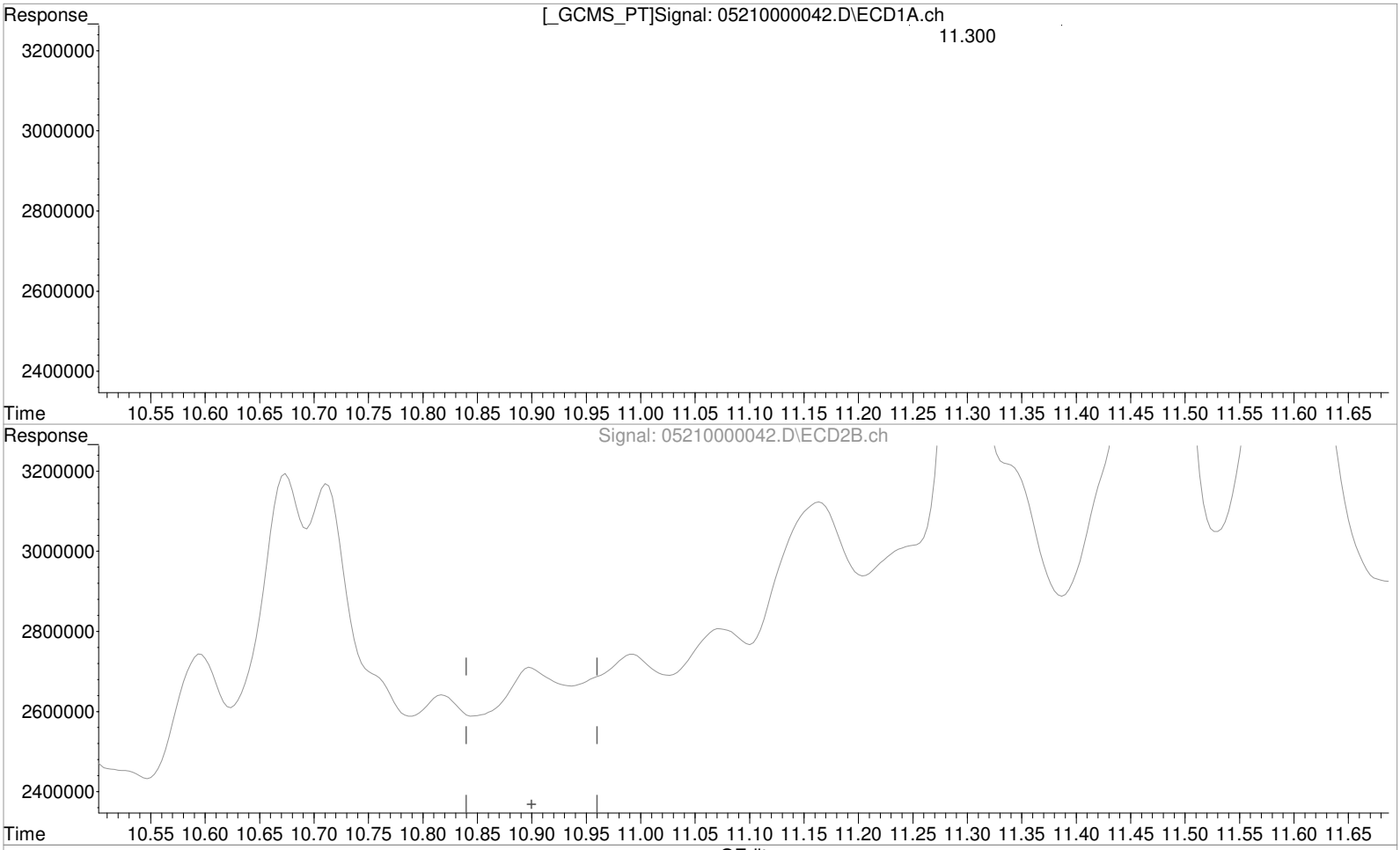
(+) = Expected Retention Time

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000042.D Vial: 58
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:50:42 Operator: TAP
Sample : K2104778-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:16 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.300min 25.781 ppb

response 17226746

Manual Integration:

Before

05/22/21

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

0.000min 0.000 ppb

response 0

(+) = Expected Retention Time

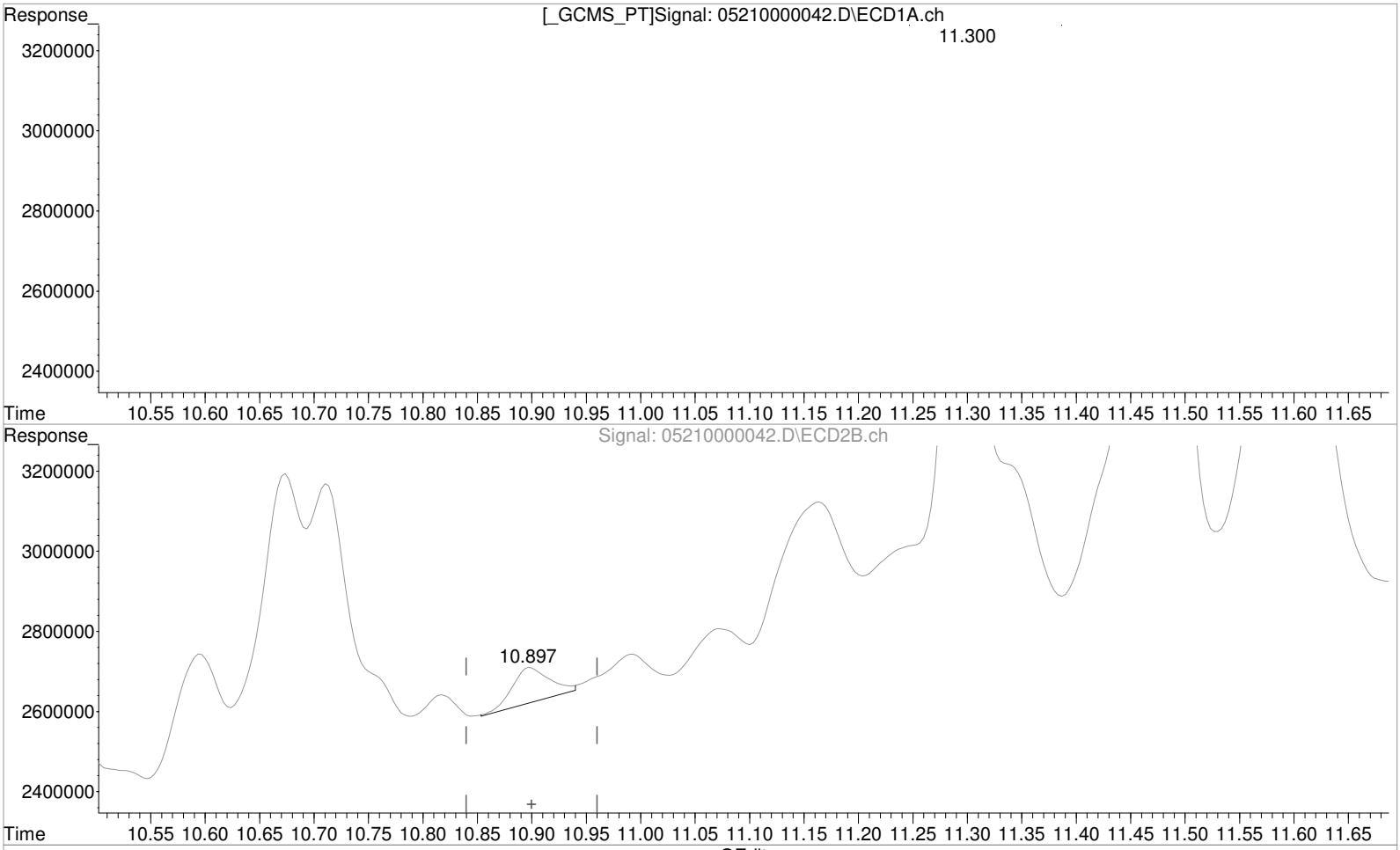
Quantitation Report (Qedit)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000042.D Vial: 58
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:50:42 Operator: TAP
Sample : K2104778-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:16 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.300min 25.781 ppb

response 17226746

Manual Integration:

After

Missed Peak

05/22/21

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

10.897min 0.539 ppb m

response 217982

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000043.D\
Lab ID: K2104778-006
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 04:14:35
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000043.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 04:14:35	**Vial:**	12
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-006	**Raw Units:**	ppb

Bottle ID:	K2104778-006.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	61270383	31134887	76.756	68.629	77	69	69	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	4.1 U	Y
2,4-D	11.30 +0.03	10.92 +0.02	2605947	381081	3.900	0.941	11U	2.6U	13 U	Y

Prep Amount:	30.1320 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	59.40

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000043.D Vial: 59
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 04:14:35 Operator: TAP
Sample : K2104778-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:40:06 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	61270383	31134887	76.756	68.629
		Target Compounds						
1)	m	Dalapon	5.627f	5.217	540493	512423	0.527	0.922 #
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D. d
5)	m	MCPA	10.613	10.243f	1247834	606629	N.D.	N.D.
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7)	m	2,4-D	11.297	10.917	2605947	381081	3.900	0.941m#
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D. d
9)	m	2,4,5-T	12.533f	12.130	15507699	711417	7.182	0.573 #
10)	m	2,4-DB	13.057	12.633f	2972636	7991296	13.519	60.432 #
11)	m	Dinoseb	14.250f	13.060	10113122	1140510	5.203	0.996 #

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

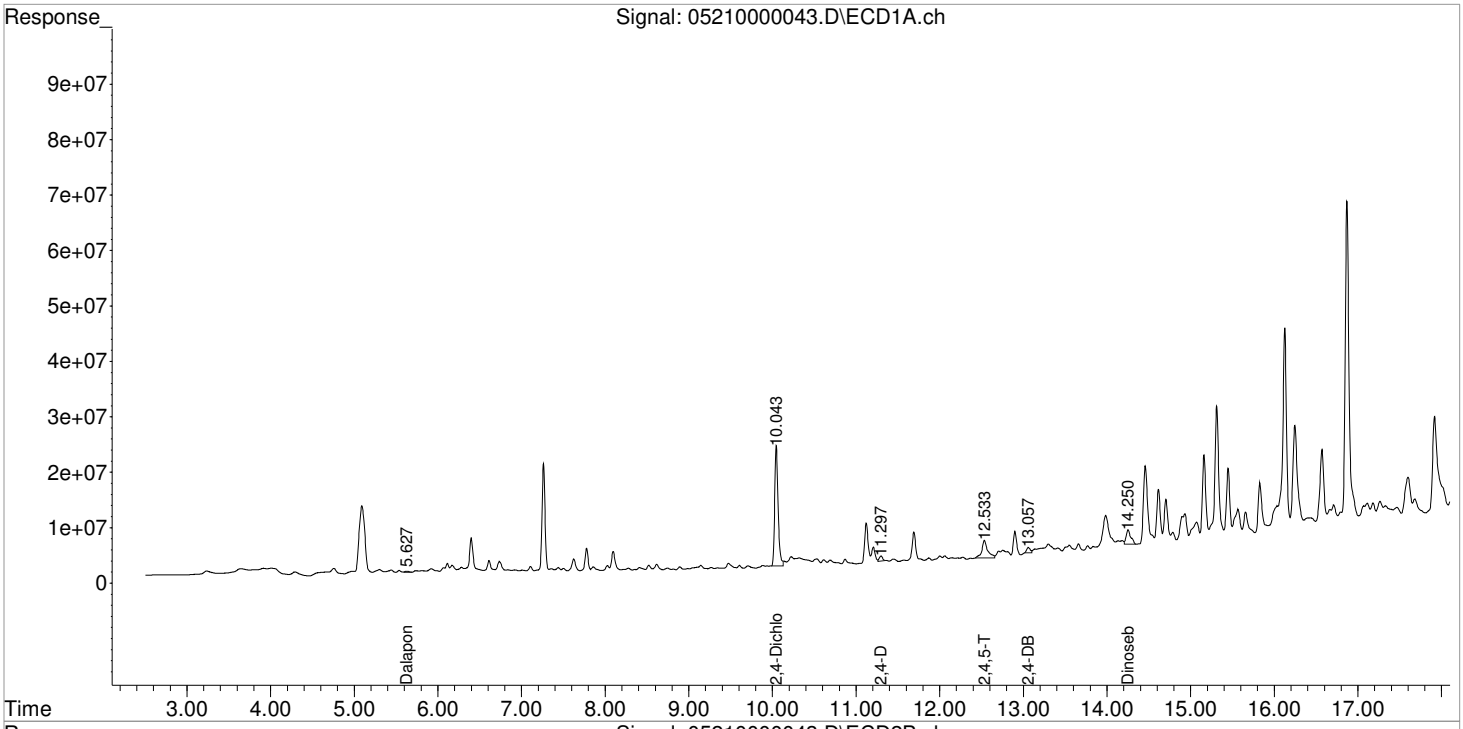
Quantitation Report (QT Reviewed)

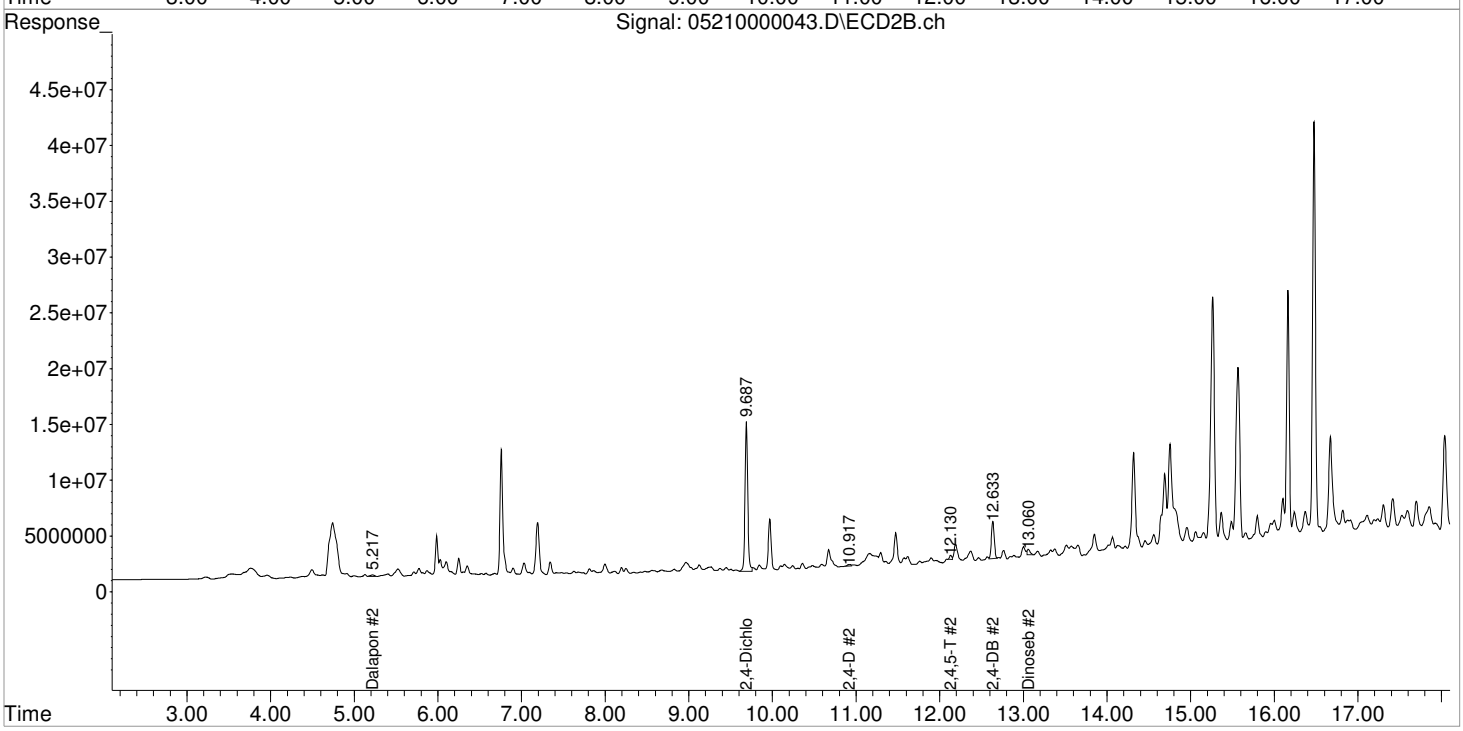
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000043.D Vial: 59
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 04:14:35 Operator: TAP
Sample : K2104778-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:40:06 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



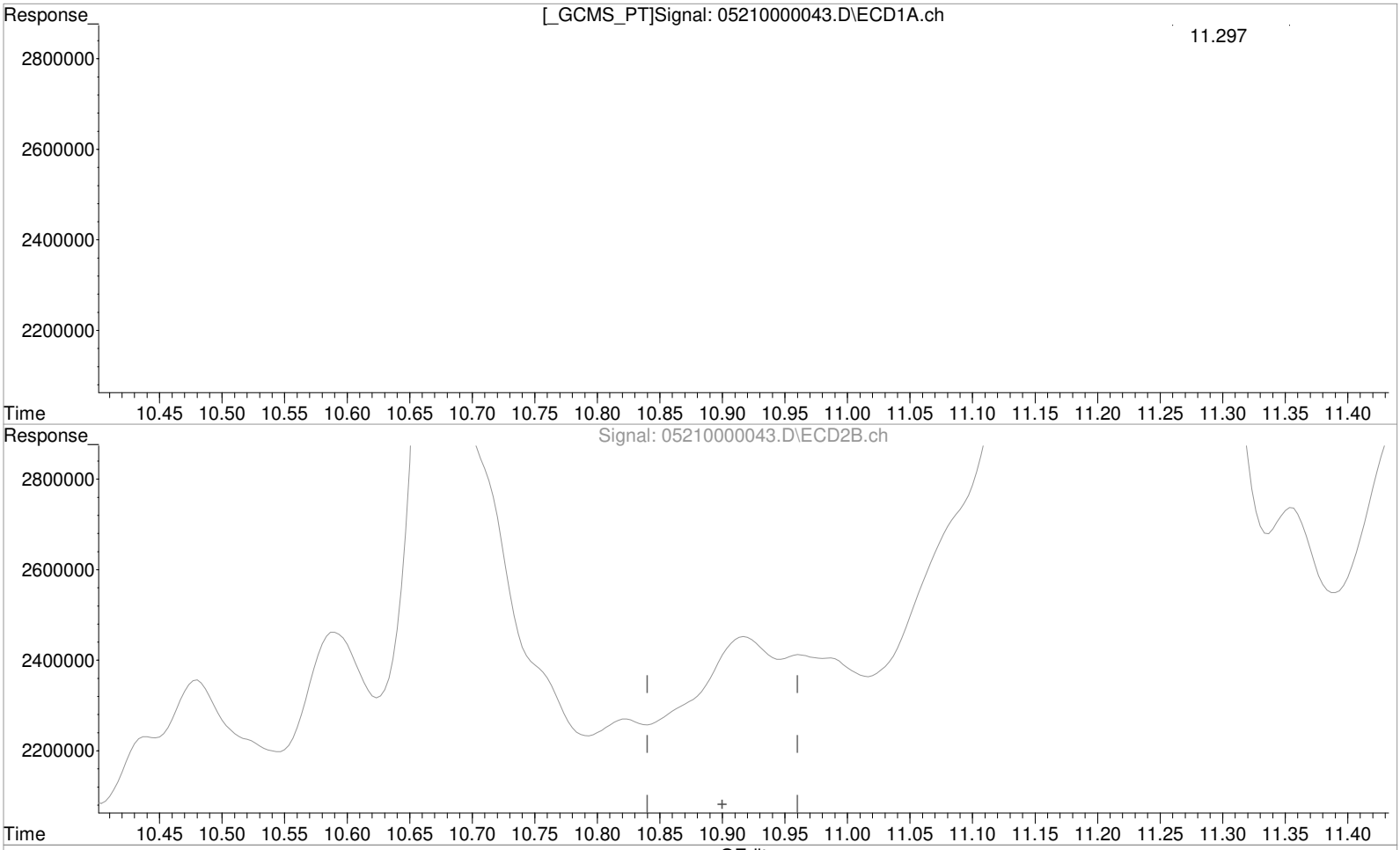


1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000043.D Vial: 59
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 04:14:35 Operator: TAP
Sample : K2104778-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:19 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.297min 3.900 ppb

response 2605947

Manual Integration:

Before

05/22/21

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

0.000min 0.000 ppb

response 0

(+) = Expected Retention Time

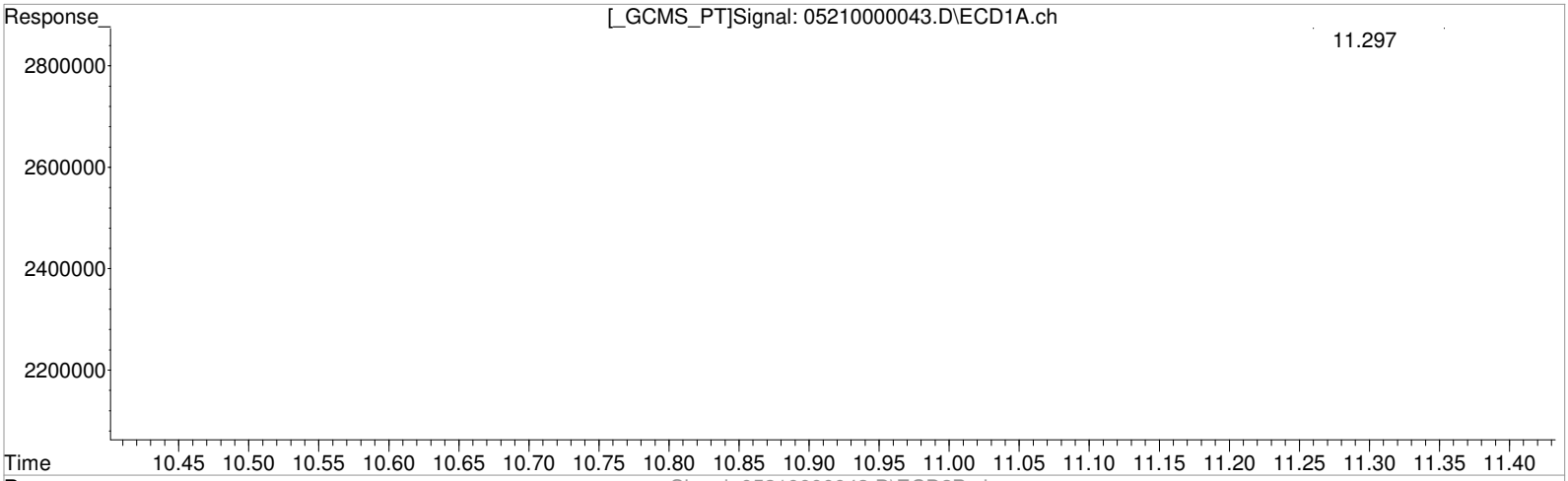
Quantitation Report (Qedit)

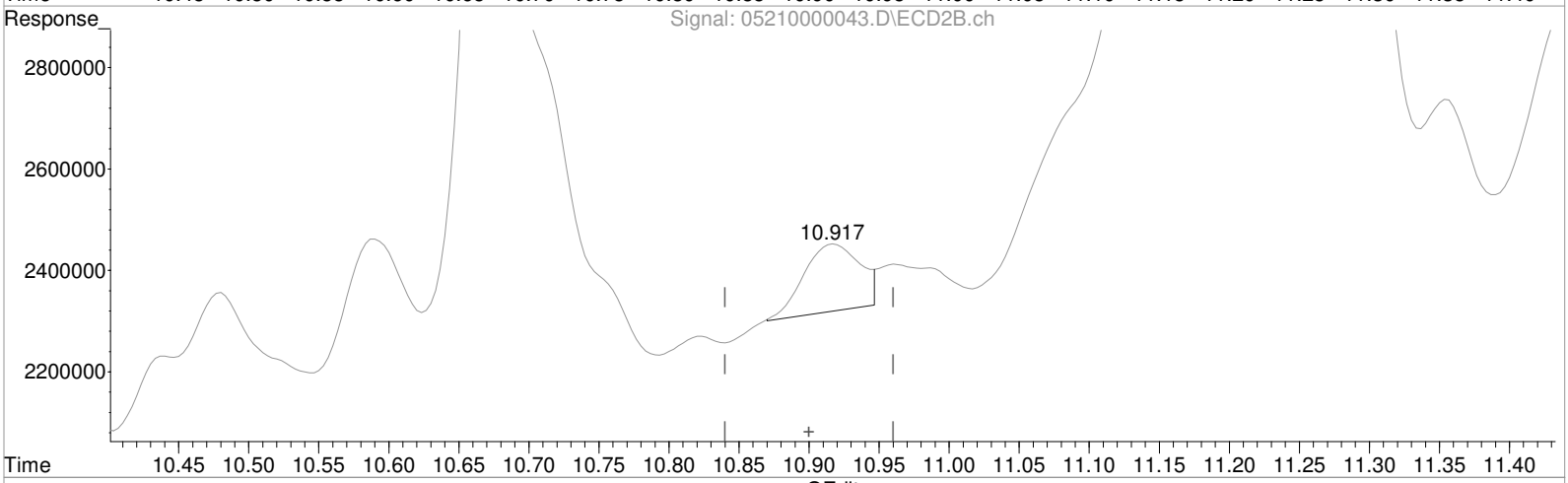
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000043.D Vial: 59
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 04:14:35 Operator: TAP
Sample : K2104778-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:19 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.297min 3.900 ppb

response 2605947

Manual Integration:

After

Missed Peak

05/22/21

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

10.917min 0.941 ppb m

response 381081

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000044.D\
Lab ID: K2104778-007
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 04:38:36
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000044.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 04:38:36	**Vial:**	13
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-007	**Raw Units:**	ppb

Bottle ID:	K2104778-007.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	68070466	36028050	85.275	79.415	85	79	79	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	3.6 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	12 U	Y

Prep Amount:	30.8700 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	66.40

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000044.D Vial: 60
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 04:38:36 Operator: TAP
Sample : K2104778-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:41:13 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.690	68070466	36028050	85.275m	79.415	
		Target Compounds							
1)	m	Dalapon	5.630f	5.227	1010841	1207820	0.986	2.173	#
3)	m	Dicamba	10.230f	9.843f	10836742	1043211	4.190	0.710	#
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.	d
5)	m	MCPA	0.000	0.000	0	0	N.D.	N.D.	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	d
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	d
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	d
9)	m	2,4,5-T	12.533f	12.130	11338010	2821624	5.251	2.271	#
10)	m	2,4-DB	13.050	12.633f	4907832	9498042	22.319	71.827	#
11)	m	Dinoseb	14.253f	12.993f	2565239	3868887	1.320	3.379	#

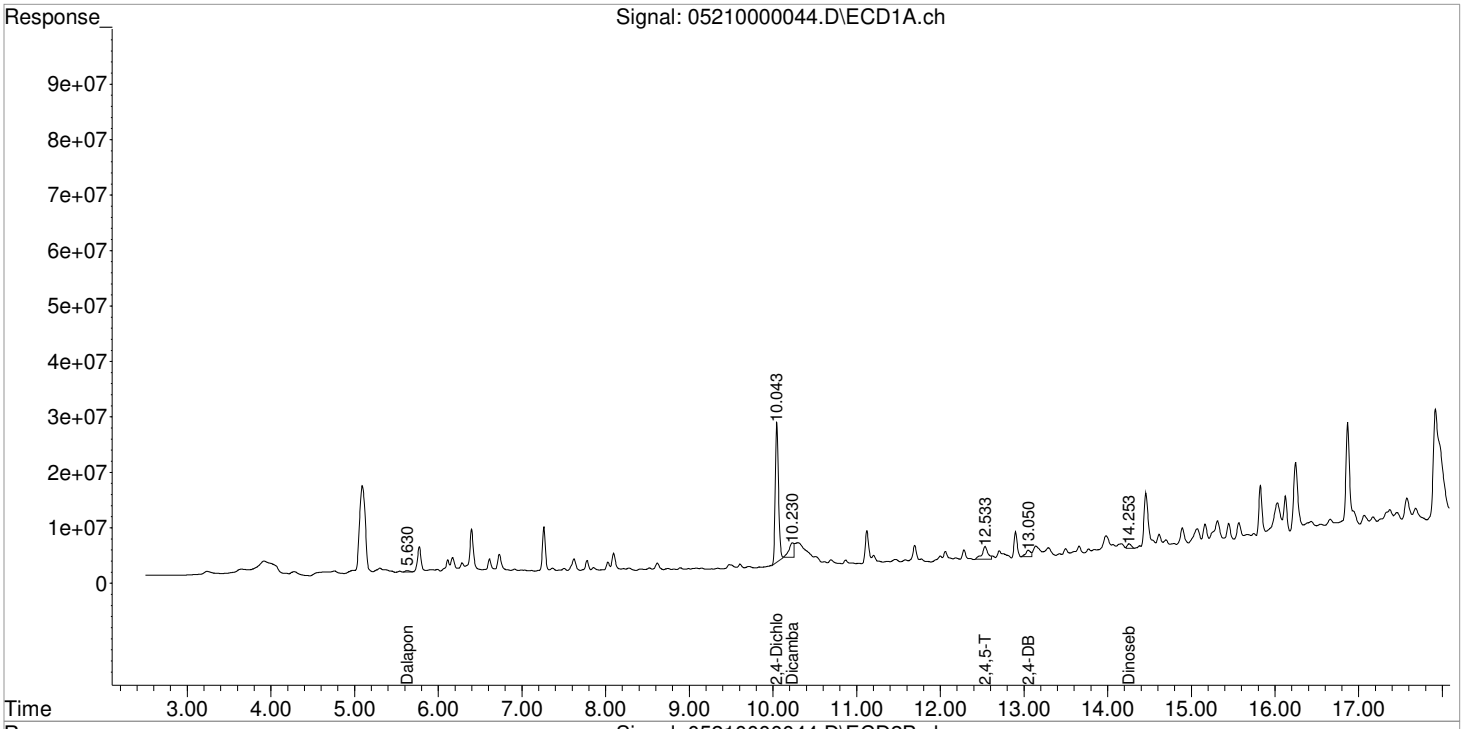
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

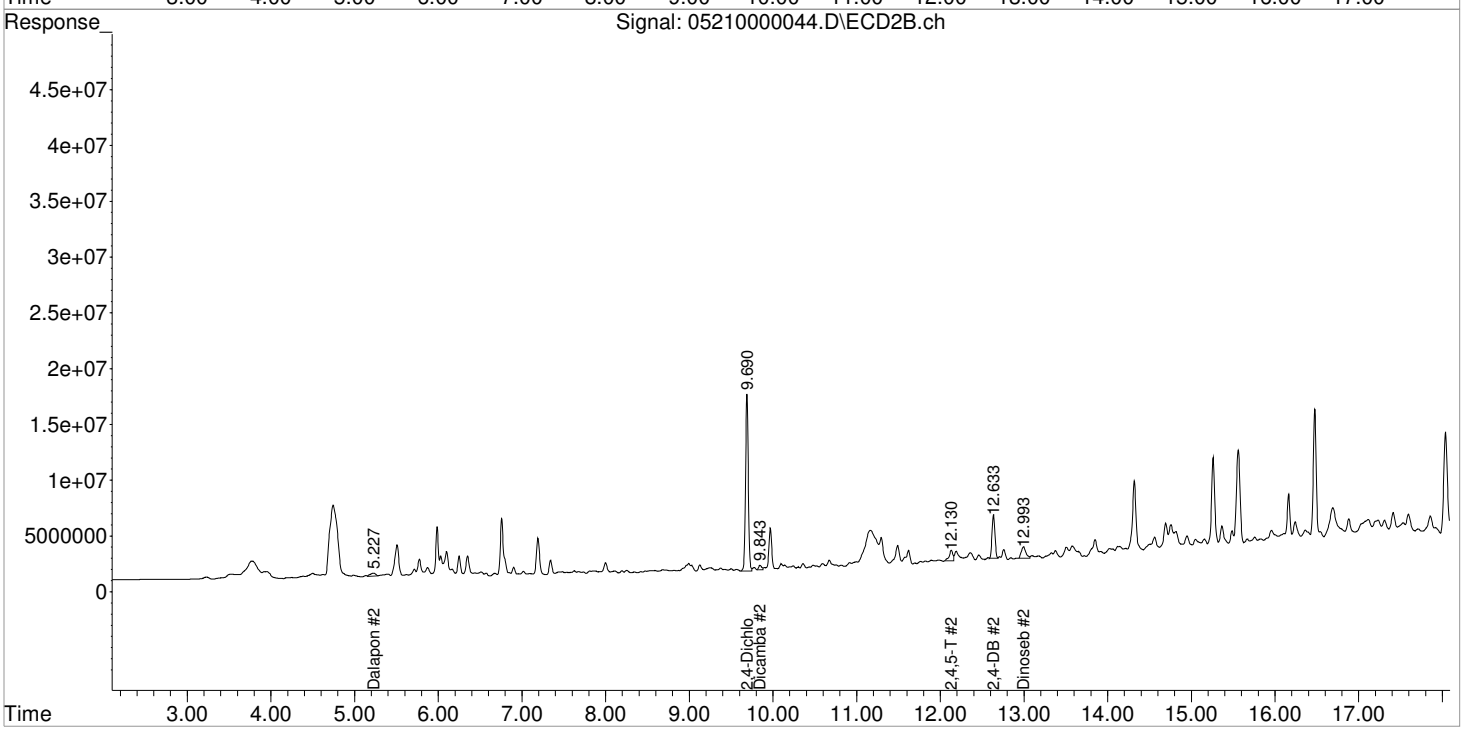
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000044.D Vial: 60
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 04:38:36 Operator: TAP
Sample : K2104778-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:41:13 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



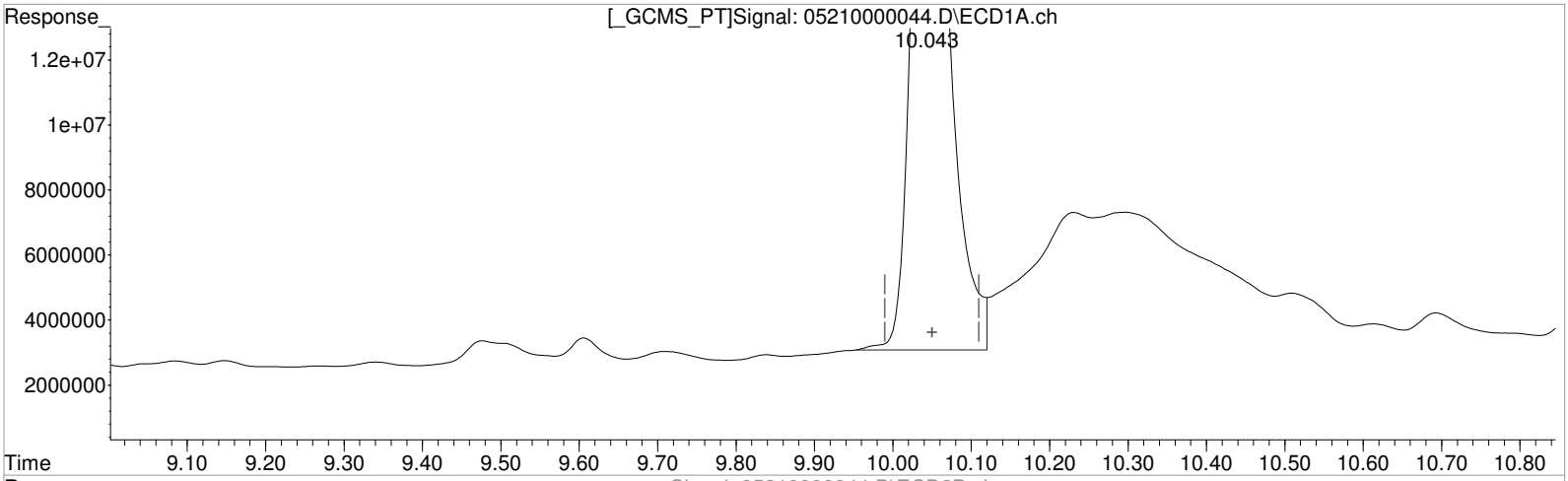


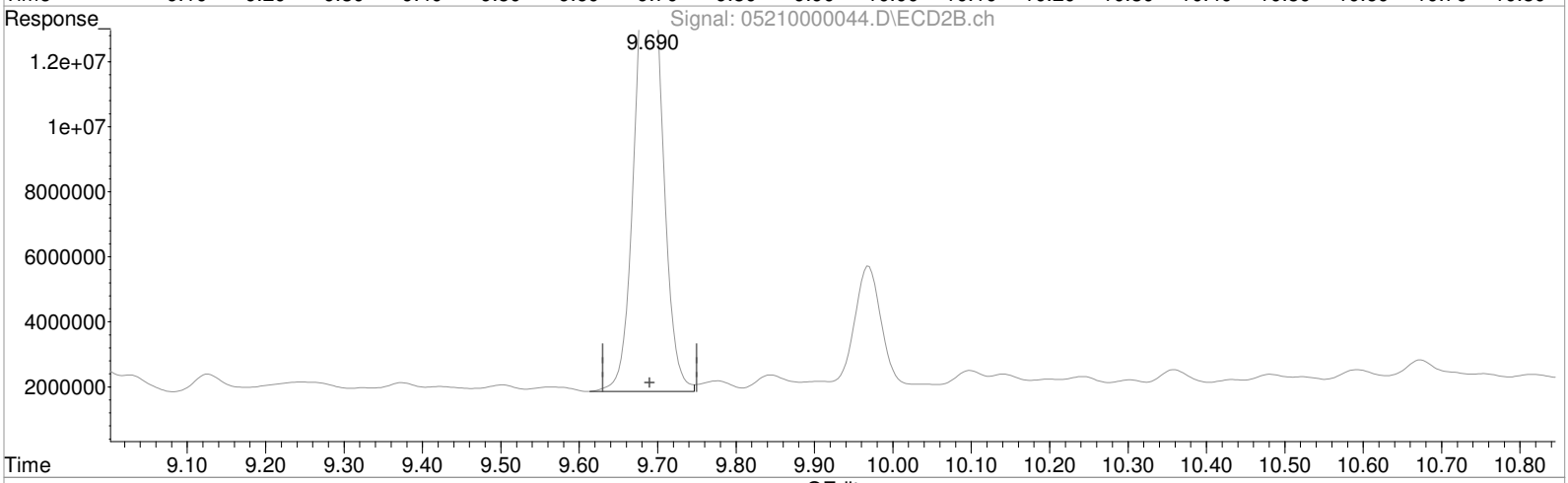
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000044.D Vial: 60
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 04:38:36 Operator: TAP
Sample : K2104778-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:22 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 93.748 ppb

response 74834160

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

9.690min 79.415 ppb

response 36028050

Manual Integration:

Before

05/22/21

(+) = Expected Retention Time

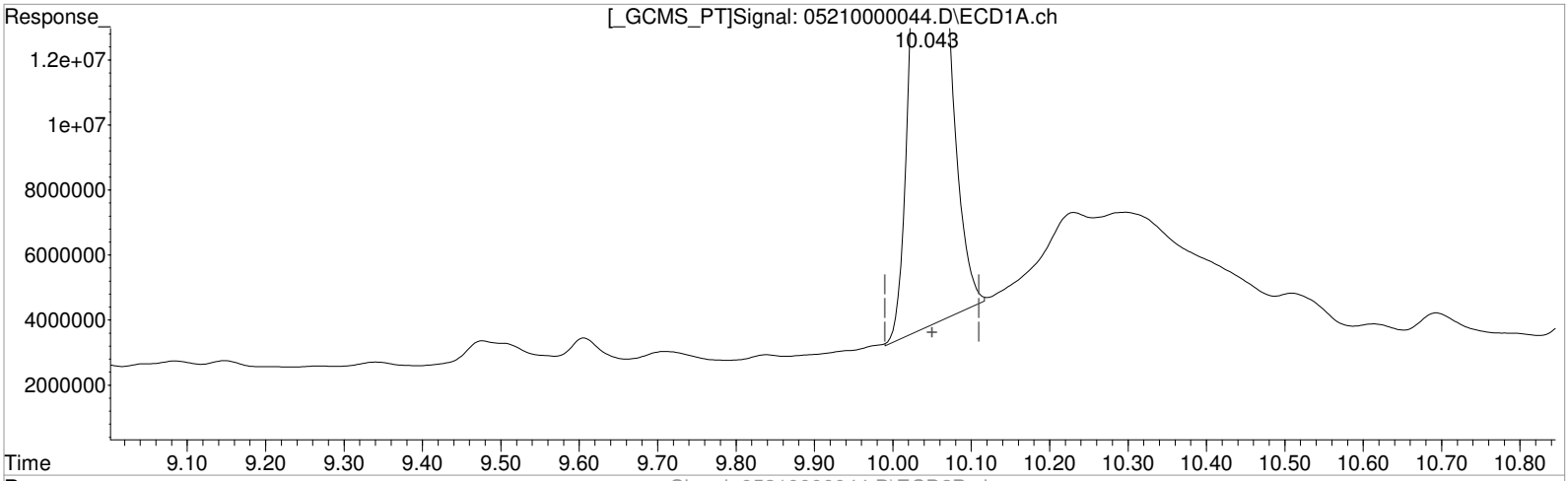
Quantitation Report (Qedit)

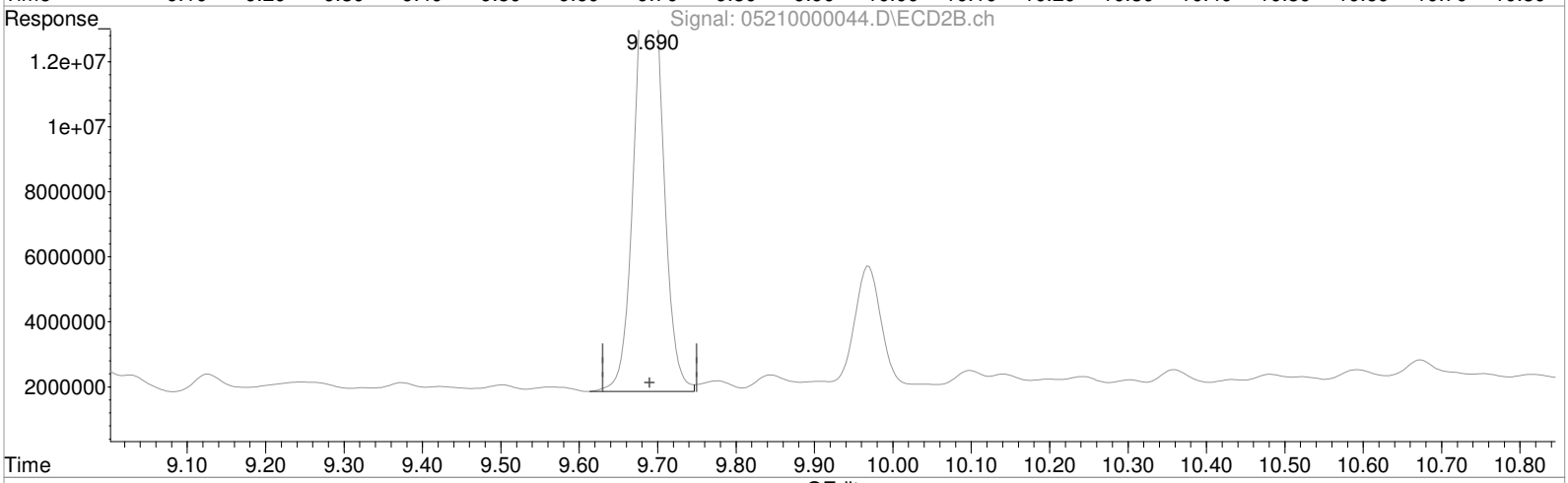
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000044.D Vial: 60
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 04:38:36 Operator: TAP
Sample : K2104778-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:22 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 85.275 ppb m

response 68070466

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

9.690min 79.415 ppb

response 36028050

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000045.D\
Lab ID: K2104778-008
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 05:02:30
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000045.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 05:02:30	**Vial:**	14
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-008	**Raw Units:**	ppb

Bottle ID:	K2104778-008.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	43802472	23916693	54.873	52.718	55	53	53	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	3.6 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	12 U	Y

Prep Amount:	30.0030 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	67.80

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

Printed: 5/24/21 13:42
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Quantitation Report (QT Reviewed)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000045.D Vial: 61
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 05:02:30 Operator: TAP
Sample : K2104778-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:42:53 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	43802472	23916693	54.873m	52.718m	
		Target Compounds							
1)	m	Dalapon	5.633f	5.237	927591	312166	0.905	0.562	#
3)	m	Dicamba	10.237f	9.843f	12367296	1546090	4.782	1.052	#
4)	m	MCPP	0.000	9.967	0	6672805	N.D.	3406.753	#
5)	m	MCPA	0.000	0.000	0	0	N.D.	N.D.	d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	d
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	d
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	
9)	m	2,4,5-T	12.460f	0.000	1034203	0	0.479	N.D.	#
10)	m	2,4-DB	0.000	12.630f	0	7512567	N.D.	56.812	#
11)	m	Dinoseb	0.000	12.993f	0	841017	N.D.	0.734	#

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

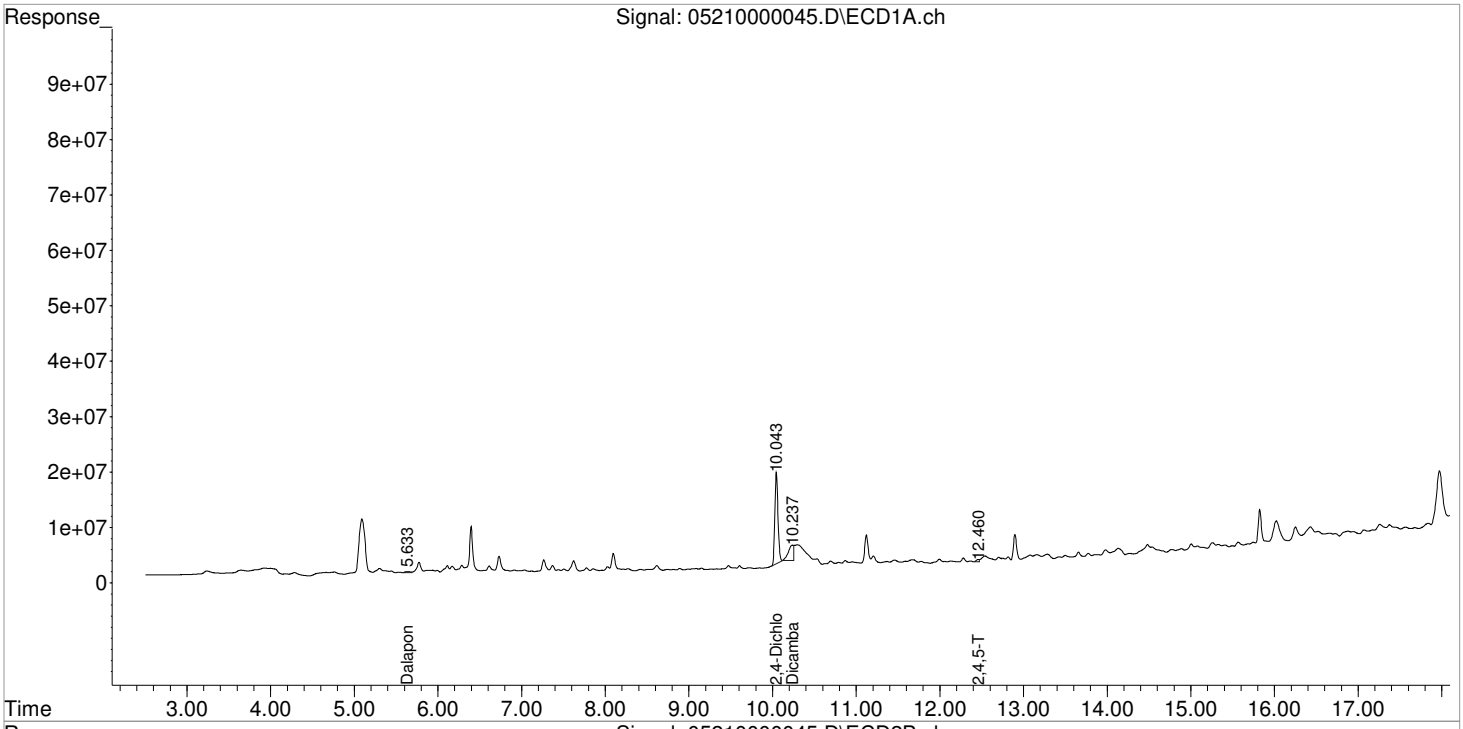
Quantitation Report (QT Reviewed)

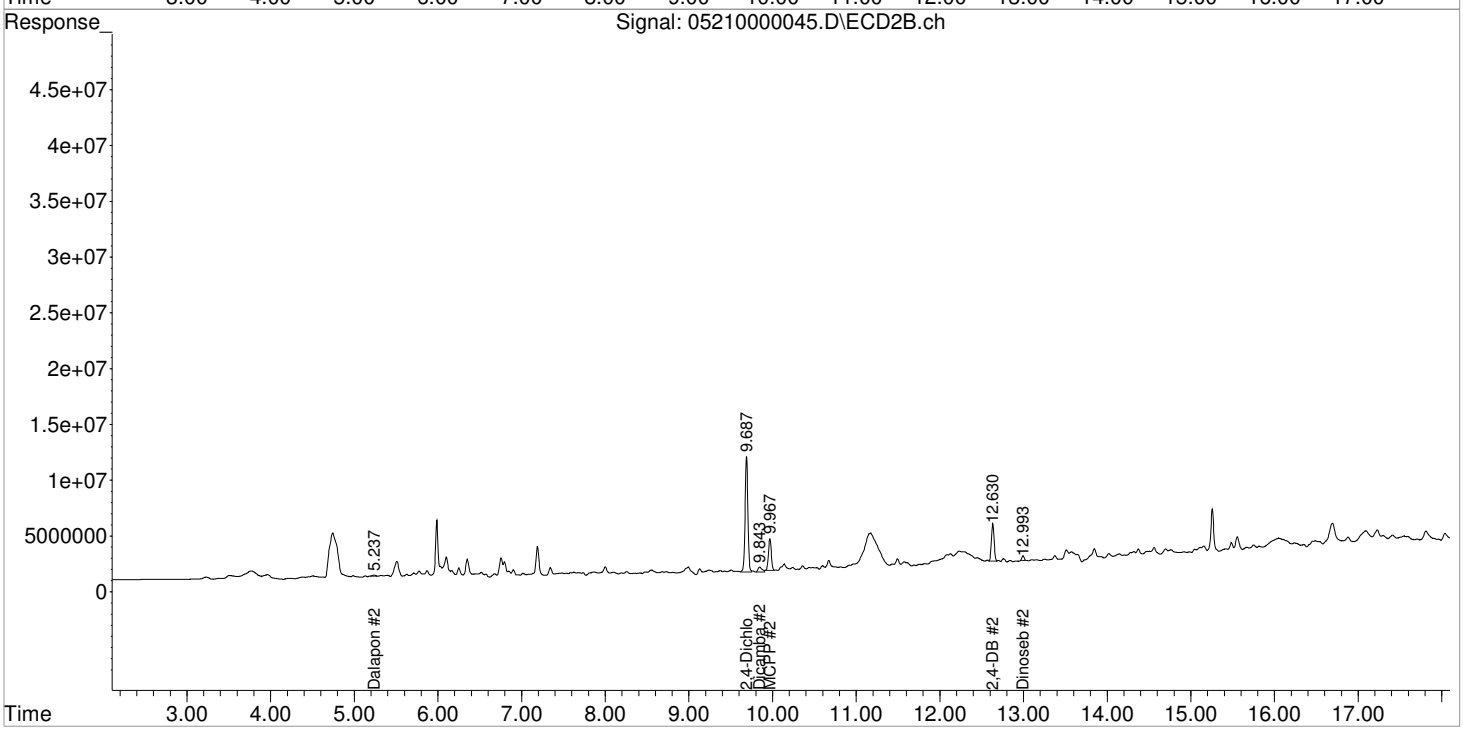
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000045.D Vial: 61
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 05:02:30 Operator: TAP
Sample : K2104778-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:42:53 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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





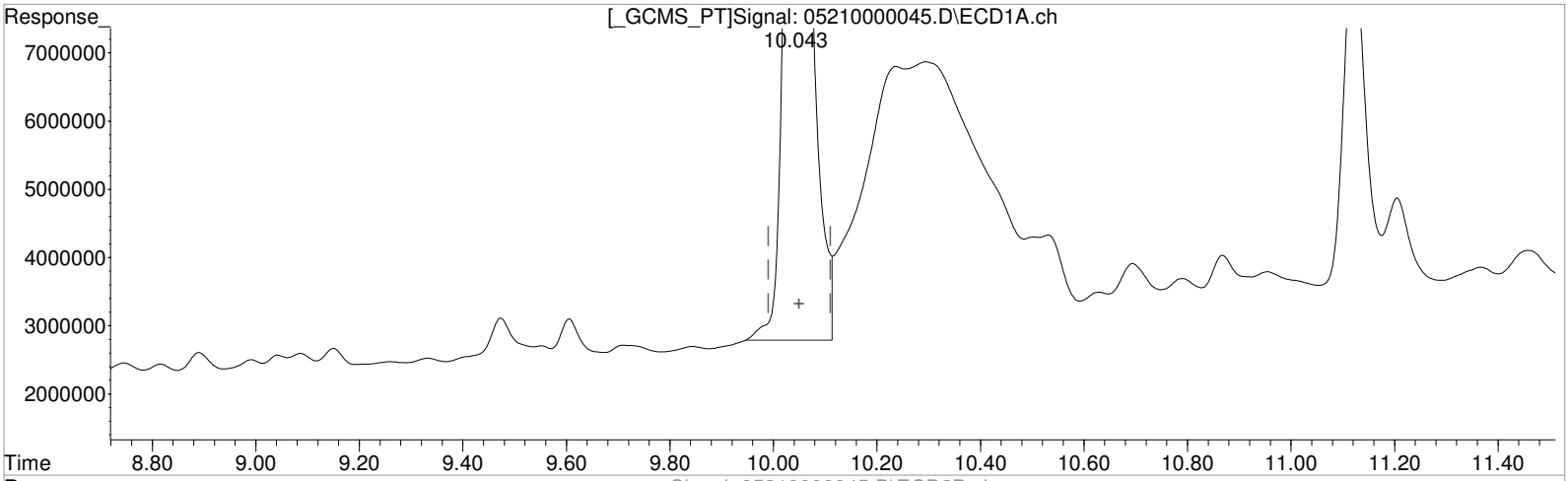
Quantitation Report (Qedit)

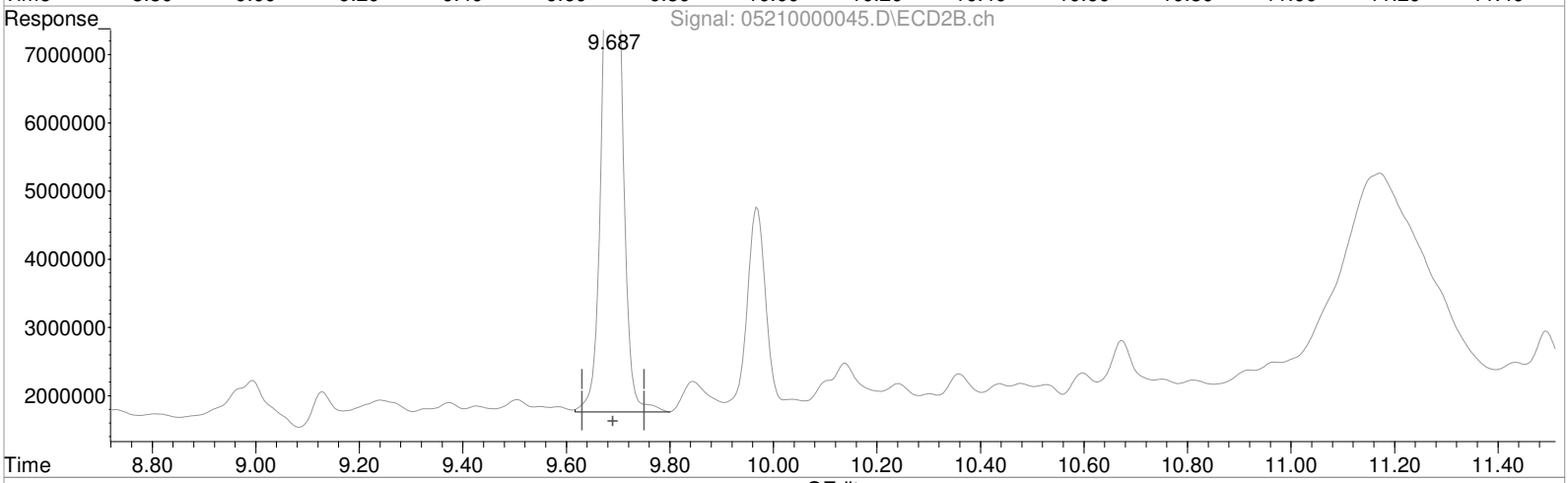
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000045.D Vial: 61
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 05:02:30 Operator: TAP
Sample : K2104778-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:25 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 61.752 ppb

response 49293294

Manual Integration:

Before

05/22/21

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

9.687min 53.252 ppb

response 24158778

(+) = Expected Retention Time

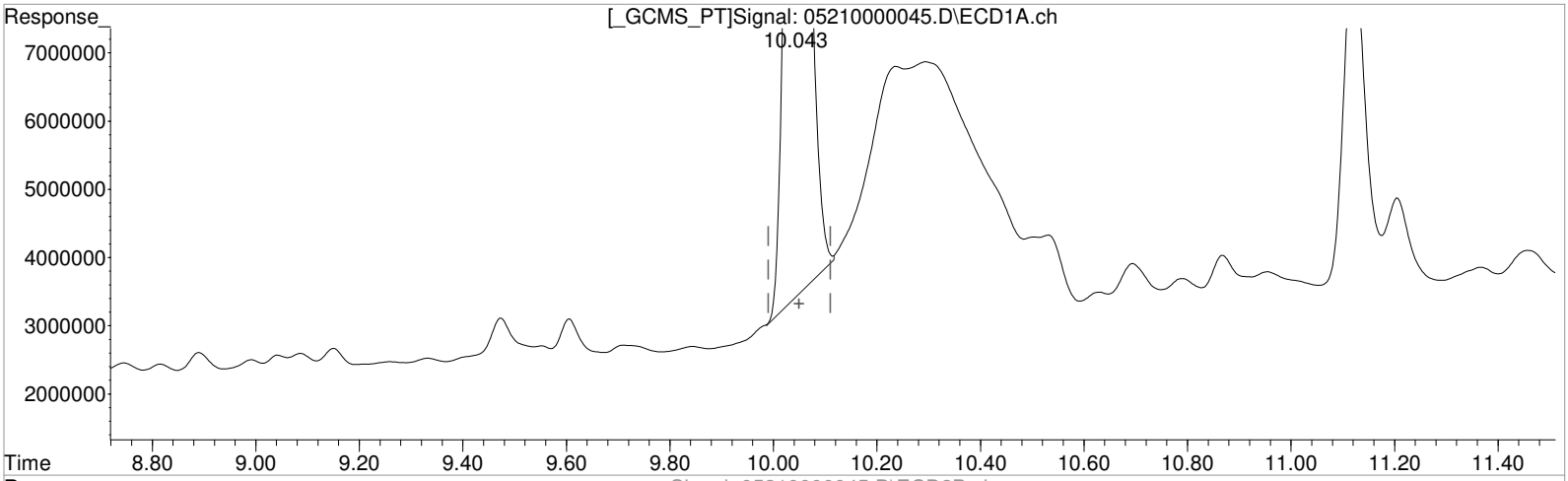
Quantitation Report (Qedit)

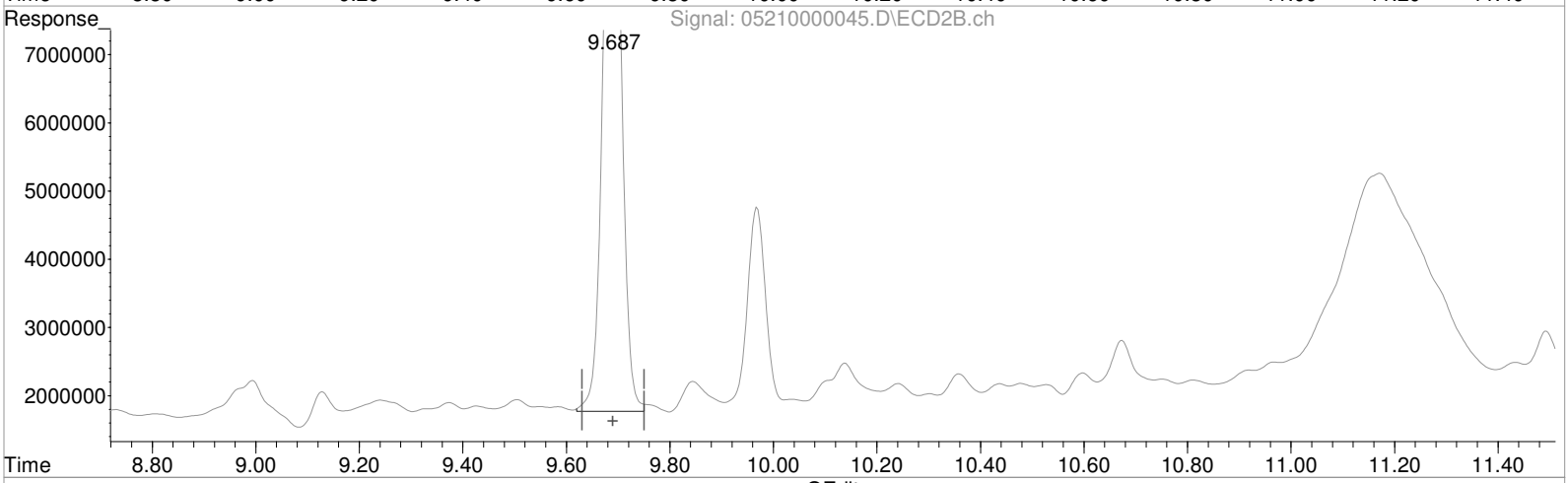
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000045.D Vial: 61
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 05:02:30 Operator: TAP
Sample : K2104778-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:25 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 54.873 ppb m

response 43802472

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

9.687min 52.718 ppb m

response 23916693

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000048.D\
Lab ID: K2104778-009
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 06:14:24
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000048.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 06:14:24	**Vial:**	15
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-009	**Raw Units:**	ppb

Bottle ID:	K2104778-009.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	62972384	31670682	78.889	69.810	79	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	11.81 +0.05	0	534424	0.000	0.317	0U	0.75U	3.4 U	Y
2,4-D	11.26	0.00	274943	0	0.411	0.000	0.97U	0U	11 U	Y

Prep Amount:	30.4390 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	69.60

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000048.D Vial: 62
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 06:14:24 Operator: TAP
Sample : K2104778-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:45:53 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	62972384	31670682	78.889	69.810	
		Target Compounds							
1)	m	Dalapon	5.623	5.230	1256145	918947	1.226	1.653	#
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D.	d
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.	d
5)	m	MCPA	10.613	10.240	1138990	139515	N.D.	N.D.	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	d
7)	m	2,4-D	11.260	0.000	274943	0	0.411	N.D.	#
8)	m	2,4,5-TP ...	0.000	11.813f	0	534424	N.D.	0.317	#
9)	m	2,4,5-T	12.530f	12.123f	438754	1056599	0.203	0.850	#
10)	m	2,4-DB	13.047	12.707f	1224680	291864	5.569	2.207	#
11)	m	Dinoseb	0.000	12.993f	0	1509375	N.D.	1.318	#

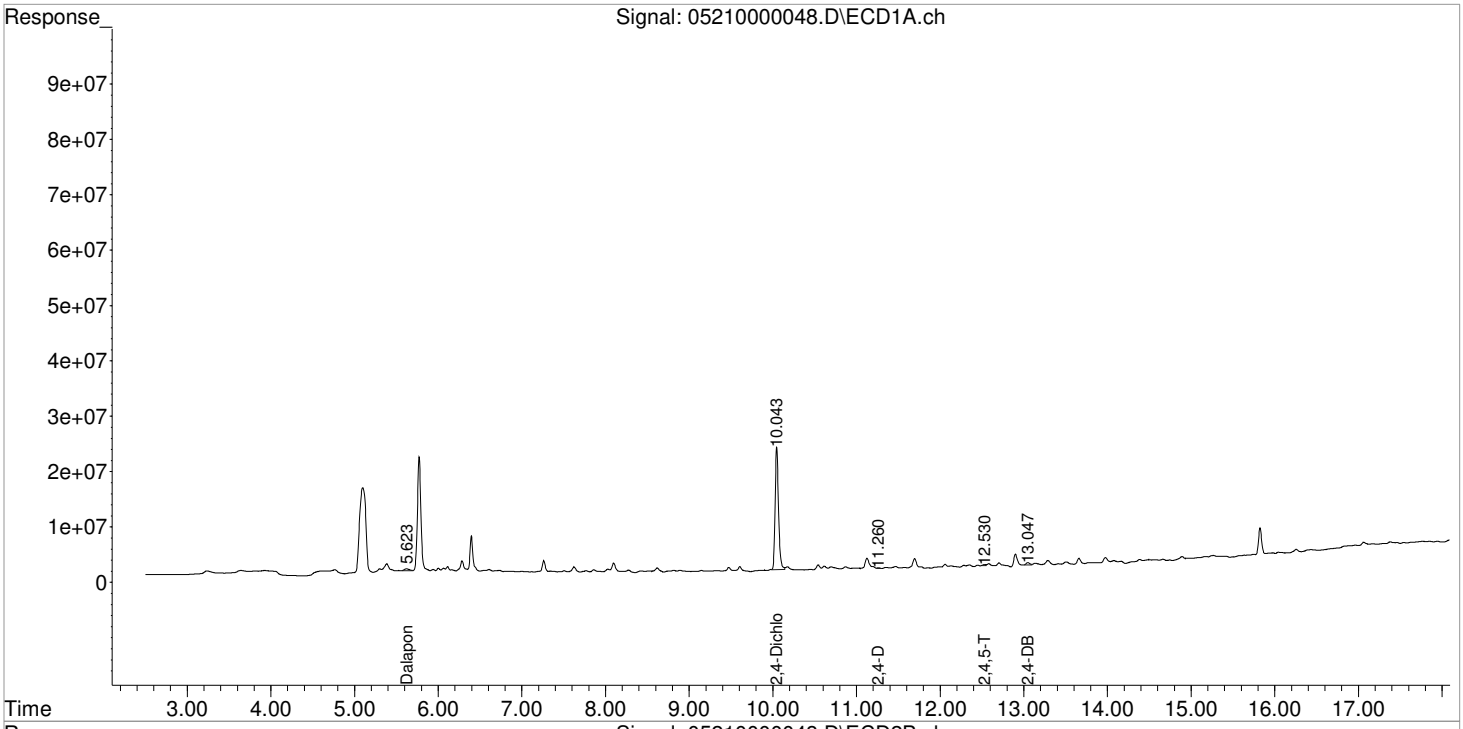
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

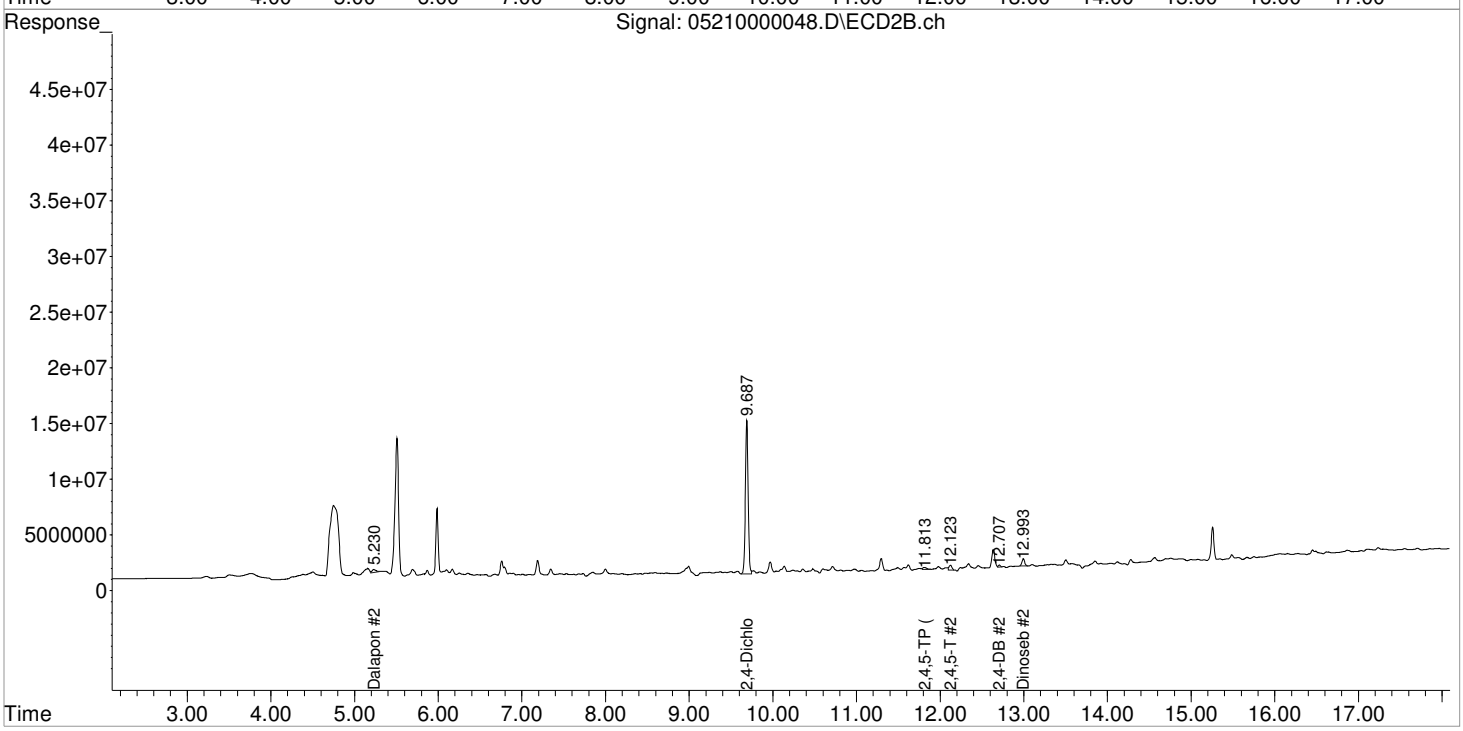
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000048.D Vial: 62
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 06:14:24 Operator: TAP
Sample : K2104778-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:45:53 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000049.D\
Lab ID: K2104778-010
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 06:38:17
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000049.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 06:38:17	**Vial:**	16
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-010	**Raw Units:**	ppb

Bottle ID:	K2104778-010.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.05 +0.01	9.69	65975551	33189947	82.651	73.159	83	73	73	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)	WRT 12.18 -0.01	11.81 +0.05	665406	424091	0.228	0.252	0.55U	0.61U	3.5 U i	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	12 U	Y

Prep Amount:	30.6220 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	67.60

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000049.D Vial: 63
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 06:38:17 Operator: TAP
Sample : K2104778-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:47:14 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.047	9.687	65975551	33189947	82.651	73.159	
		Target Compounds							
1)	m	Dalapon	5.627f	5.213	1317136	1591860	1.285	2.864	#
3)	m	Dicamba	10.310	9.847f	774213	646471	0.299	0.440	#
4)	m	MCPP	10.453	9.967	200923	3218941	N.D.	1255.599	
5)	m	MCPA	10.617	10.240	1625564	700474	N.D.	N.D.	
6)	m	Dichloroprop	11.020	10.593	1163293	1145029	1.639	0.087	#
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	d
8)	m	2,4,5-TP ...	12.180	11.810f	665406	424091	0.228	0.252	
9)	m	2,4,5-T	12.457f	12.130	1478614	2641891	0.685	2.126	#
10)	m	2,4-DB	13.050	12.637f	3731040	9379477	16.968	70.930	#
11)	m	Dinoseb	14.263	12.993f	2405671	5200870	1.238	4.542	#

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

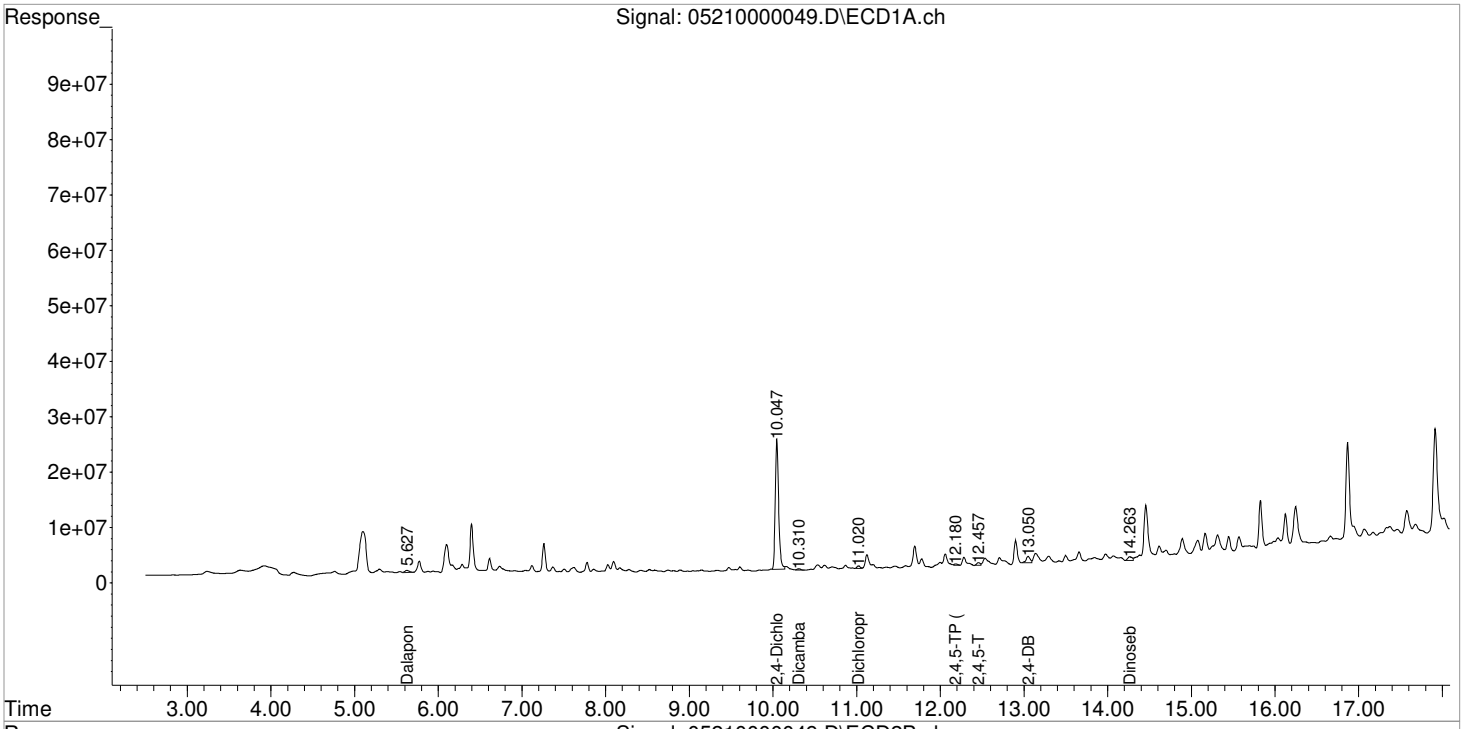
Quantitation Report (QT Reviewed)

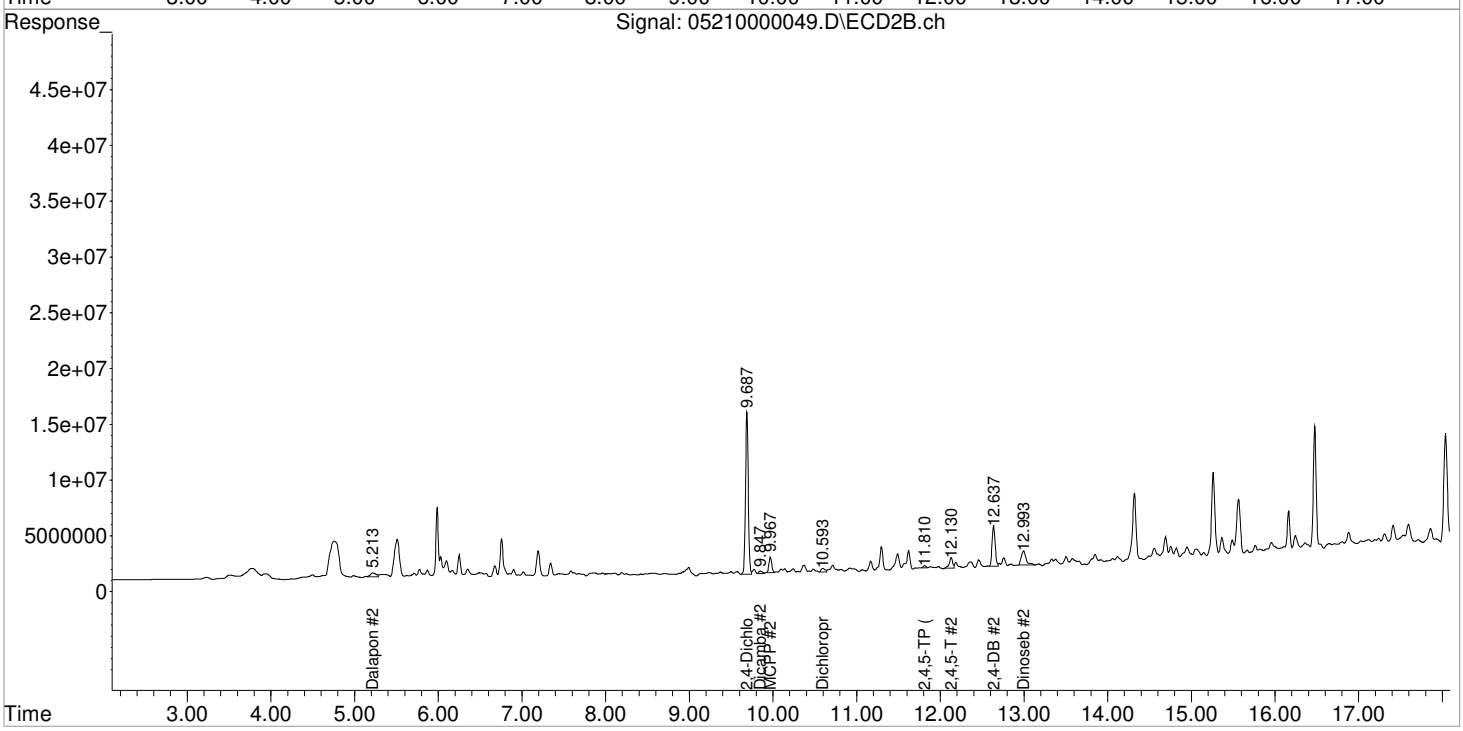
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000049.D Vial: 63
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 06:38:17 Operator: TAP
Sample : K2104778-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:47:14 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000050.D\
Lab ID: K2104778-011
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 07:02:17
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000050.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 07:02:17	**Vial:**	17
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-011	**Raw Units:**	ppb

Bottle ID:	K2104778-011.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	56942924	30027306	71.335	66.188	71	66	66	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	5.1 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	17 U	Y

Prep Amount:	30.2900 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	47.50

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000050.D Vial: 64
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 07:02:17 Operator: TAP
Sample : K2104778-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:48:46 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	56942924	30027306	71.335m	66.188	
		Target Compounds							
1)	m	Dalapon	5.630f	5.220	1029697	805814	1.005	1.450	#
3)	m	Dicamba	10.320f	9.843f	42699441	712397	16.511	0.485	#
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.	d
5)	m	MCPA	10.613	0.000	4251345	0	N.D.	N.D.	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	d
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	d
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	
9)	m	2,4,5-T	12.537f	12.127	2696411	3287907	1.249	2.646	#
10)	m	2,4-DB	13.047	12.633f	4895895	6256203	22.265	47.311	#
11)	m	Dinoseb	14.307	12.990f	1288435	2877978	0.663	2.513	#

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

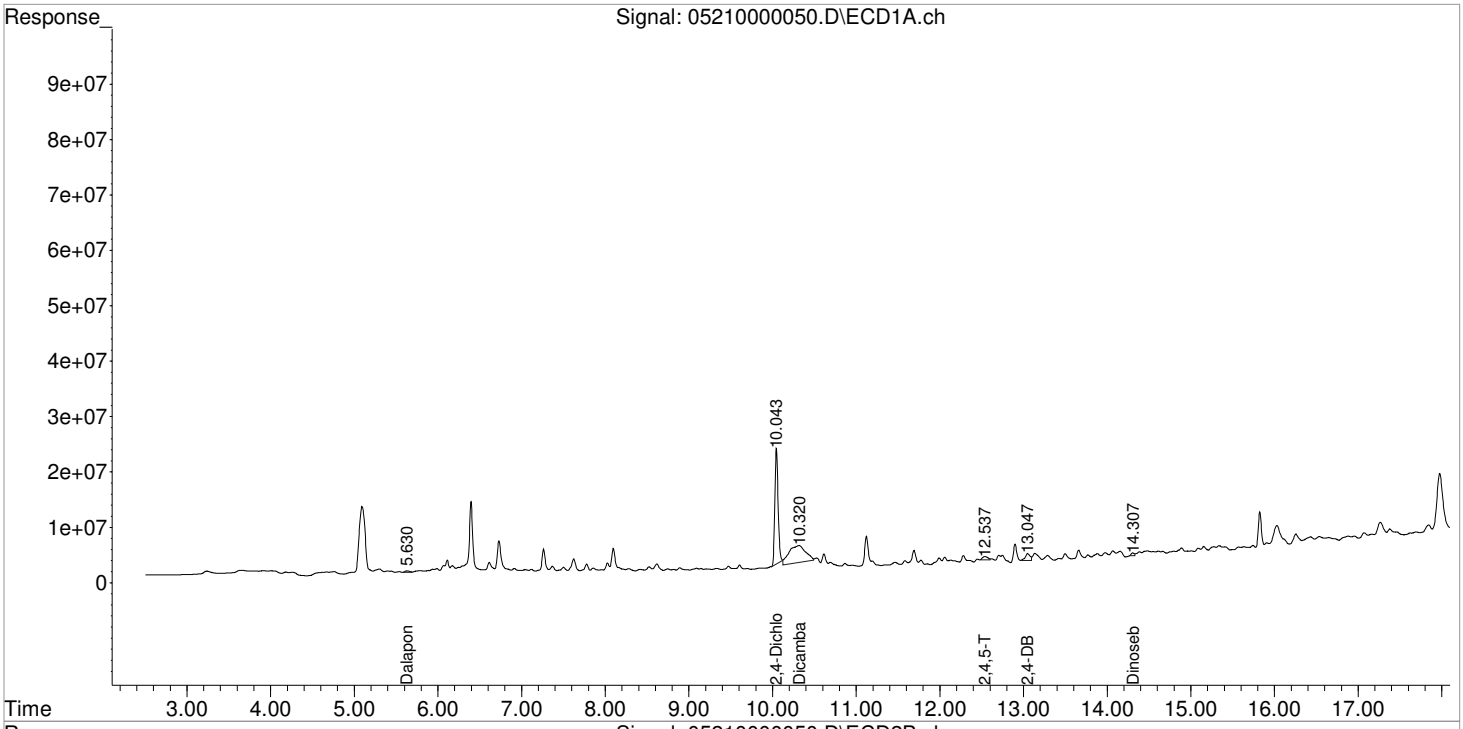
Quantitation Report (QT Reviewed)

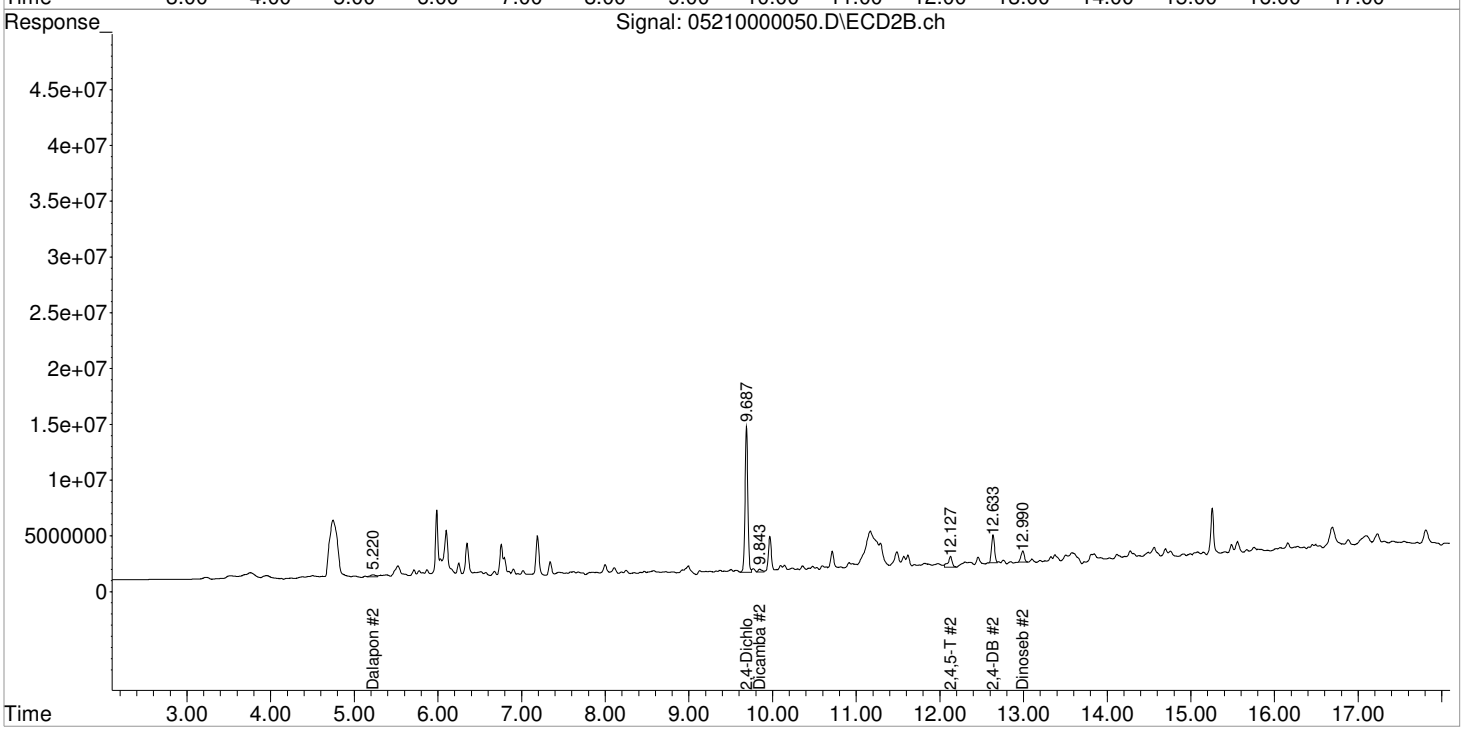
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000050.D Vial: 64
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 07:02:17 Operator: TAP
Sample : K2104778-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:48:46 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



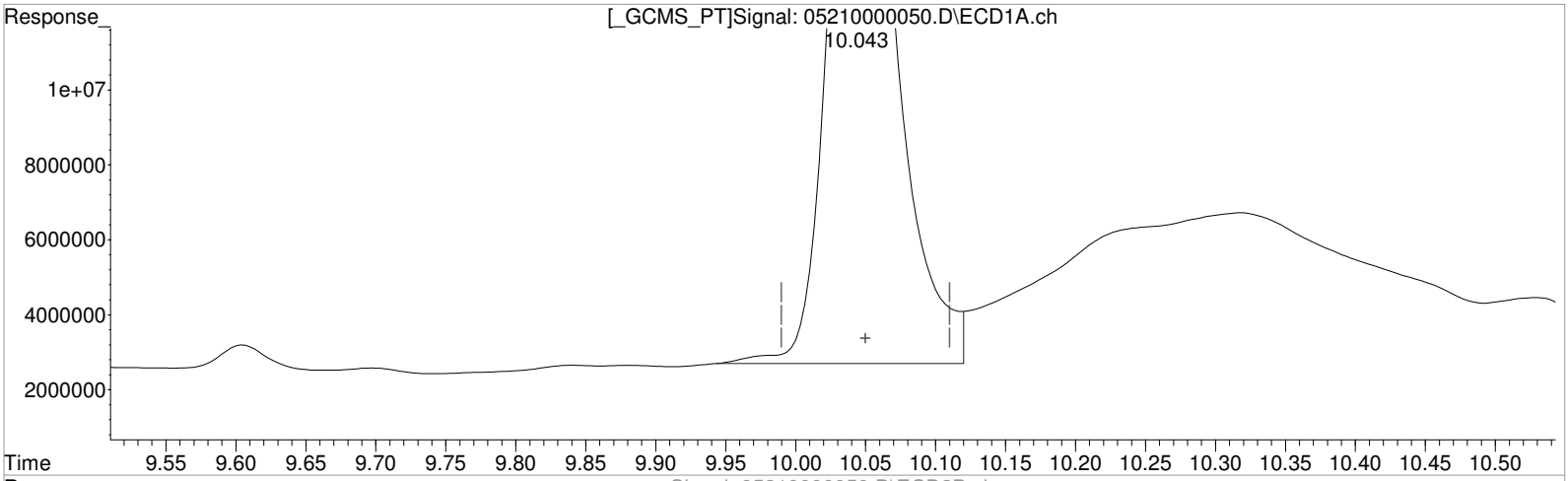


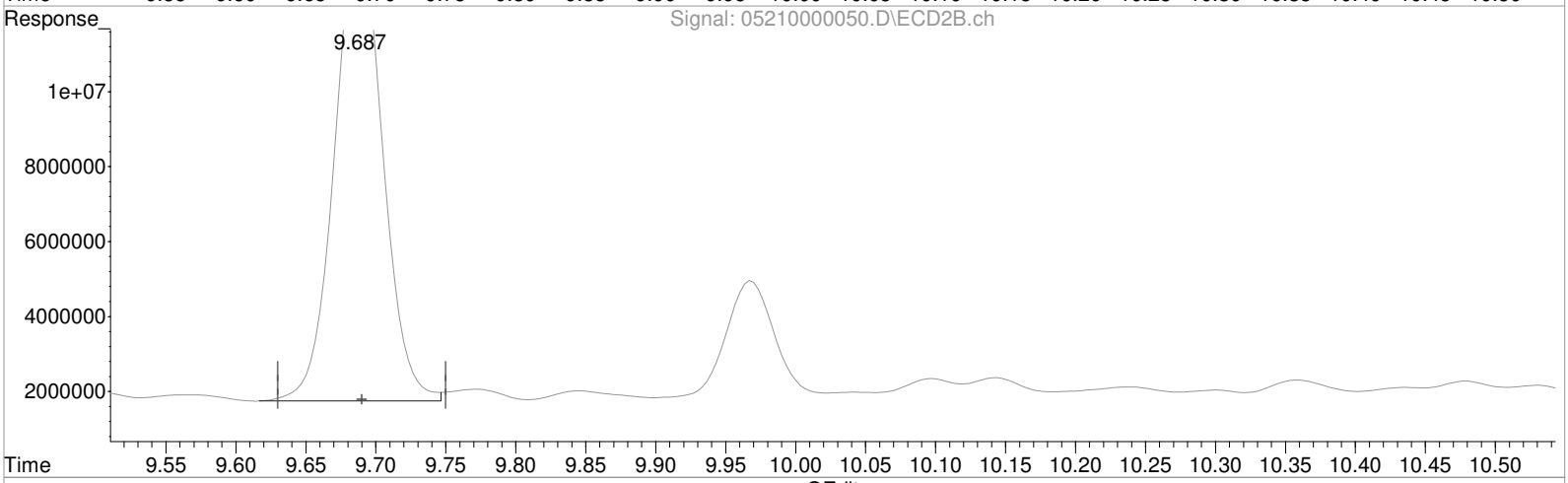
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000050.D Vial: 64
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 07:02:17 Operator: TAP
Sample : K2104778-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:40 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 79.380 ppb

response 63364900

Manual Integration:

Before

05/22/21

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

9.687min 66.188 ppb

response 30027306

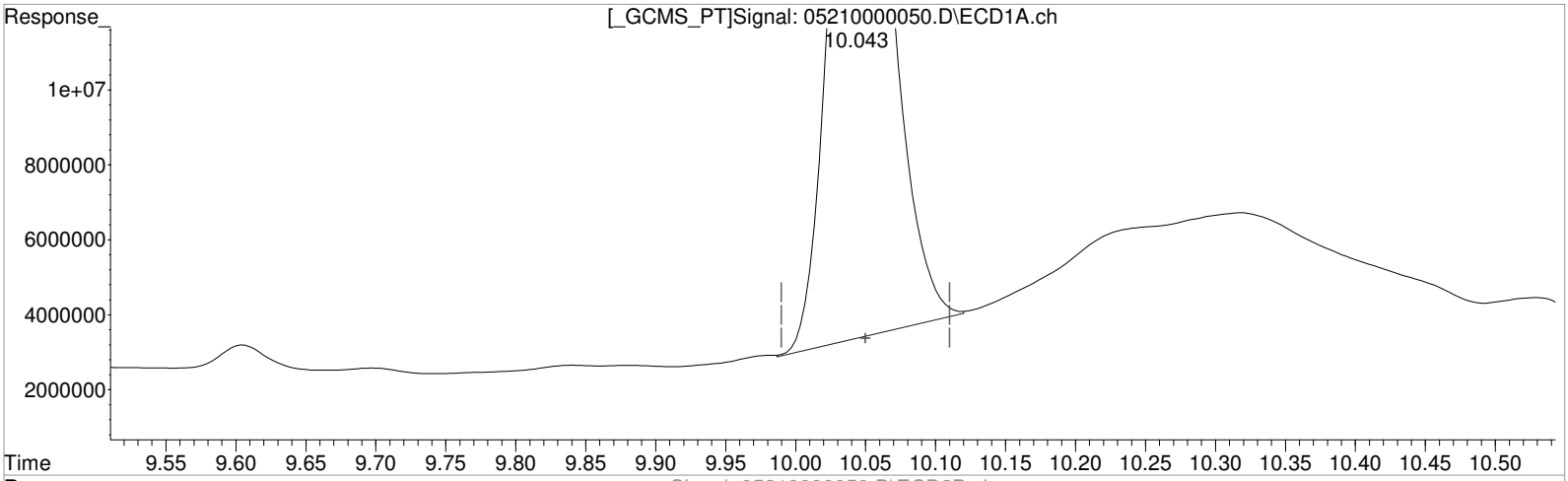
(+) = Expected Retention Time

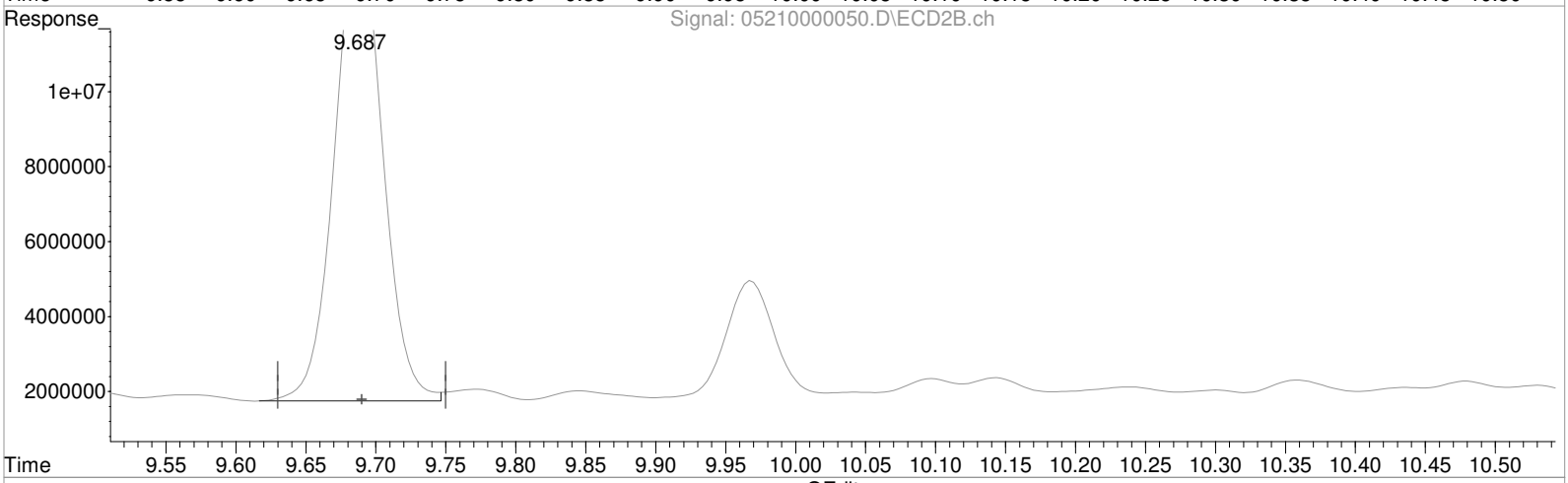
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000050.D Vial: 64
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 07:02:17 Operator: TAP
Sample : K2104778-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:40 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 71.335 ppb m

response 56942924

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

9.687min 66.188 ppb

response 30027306

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000051.D\
Lab ID: K2104778-012
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 07:26:09
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000051.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 07:26:09	**Vial:**	18
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-012	**Raw Units:**	ppb

Bottle ID:	K2104778-012.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	62208405	30574963	77.931	67.395	78	67	67	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	4.3 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	14 U	Y

Prep Amount:	30.8190 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	55.40

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000051.D Vial: 65
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 07:26:09 Operator: TAP
Sample : K2104778-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:52:49 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	62208405	30574963	77.931m	67.395
		Target Compounds						
1)	m	Dalapon	5.630f	5.223	1111091	902916	1.084	1.624 #
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D.
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D. d
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D. d
9)	m	2,4,5-T	12.530f	12.127	1399676	3833710	0.648	3.085 #
10)	m	2,4-DB	13.050	12.703	4294650	167269	19.531	1.265 #
11)	m	Dinoseb	14.303	12.993f	3149001	3246400	1.620	2.835 #

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

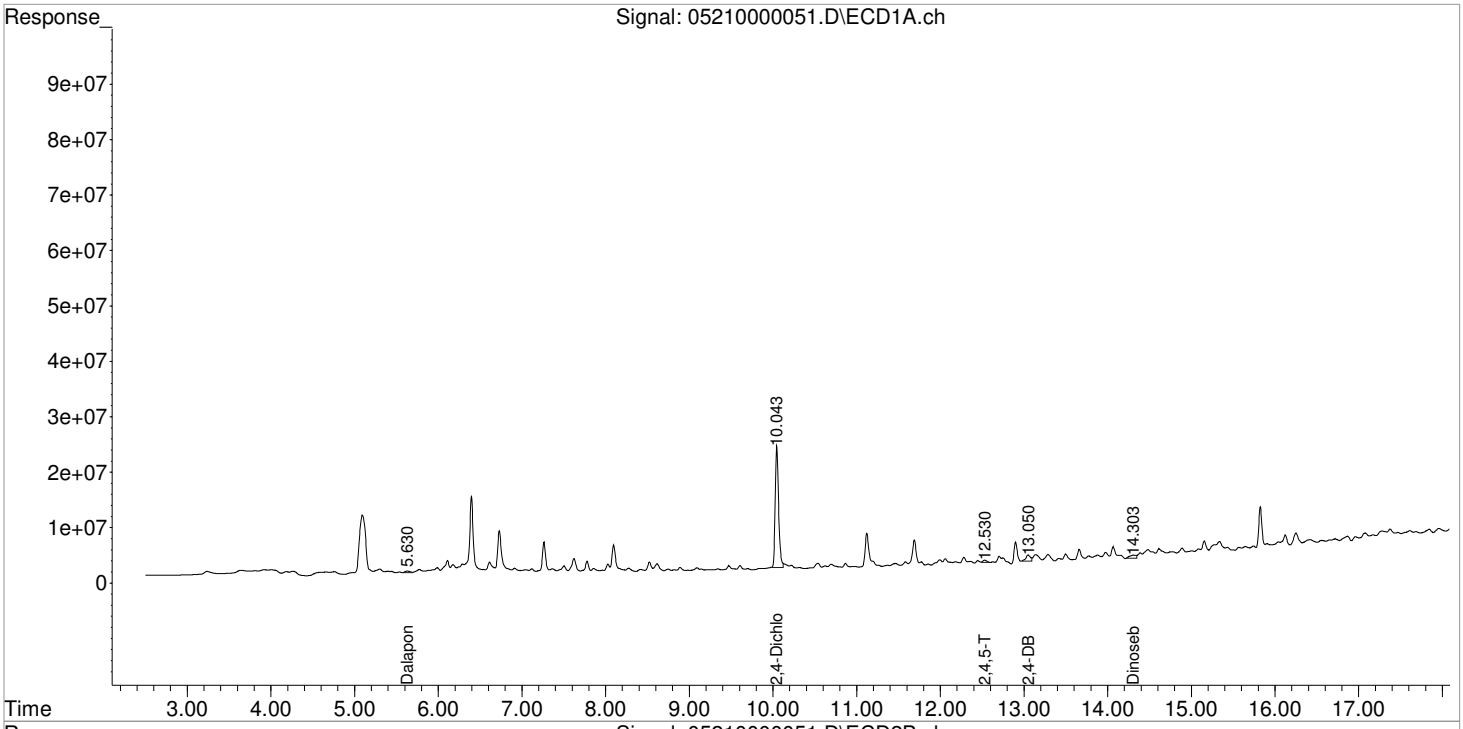
Quantitation Report (QT Reviewed)

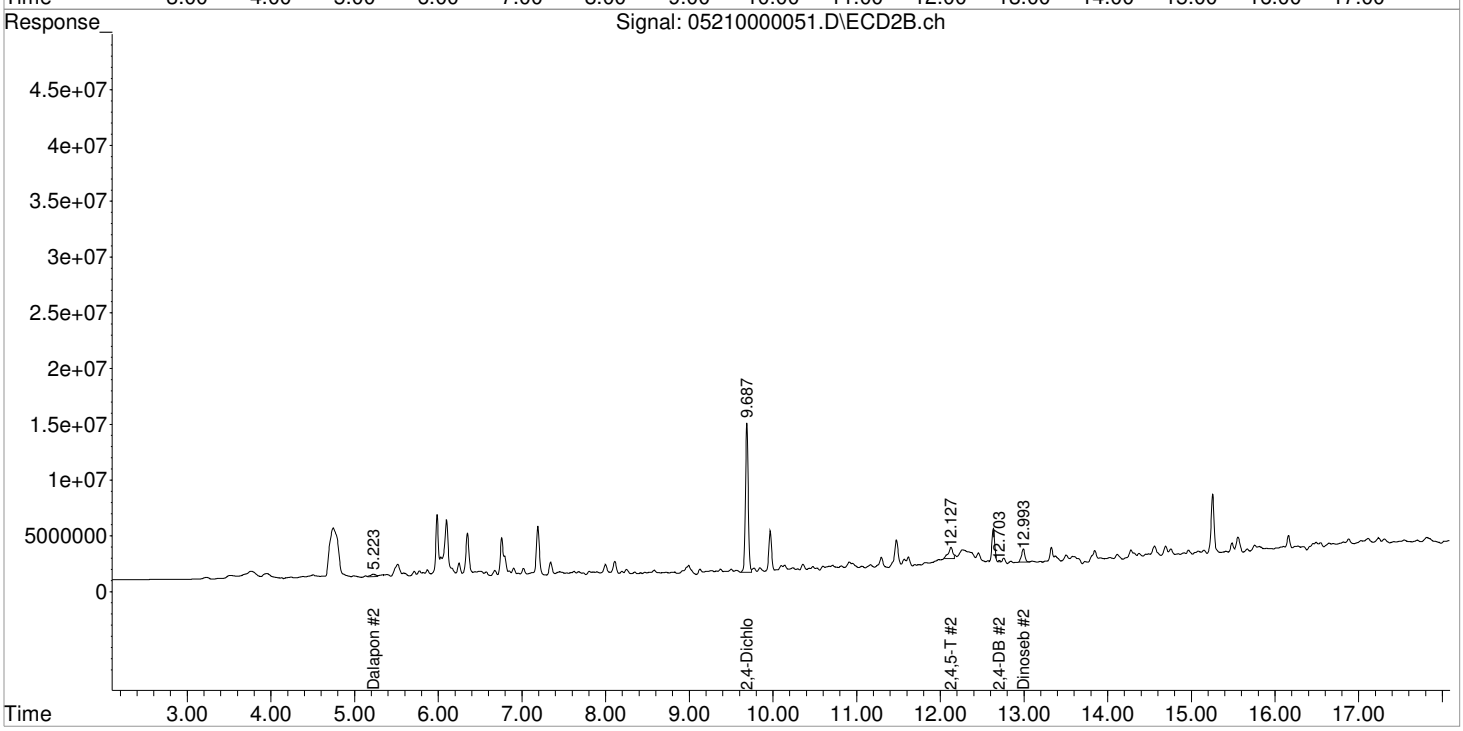
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000051.D Vial: 65
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 07:26:09 Operator: TAP
Sample : K2104778-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:52:49 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



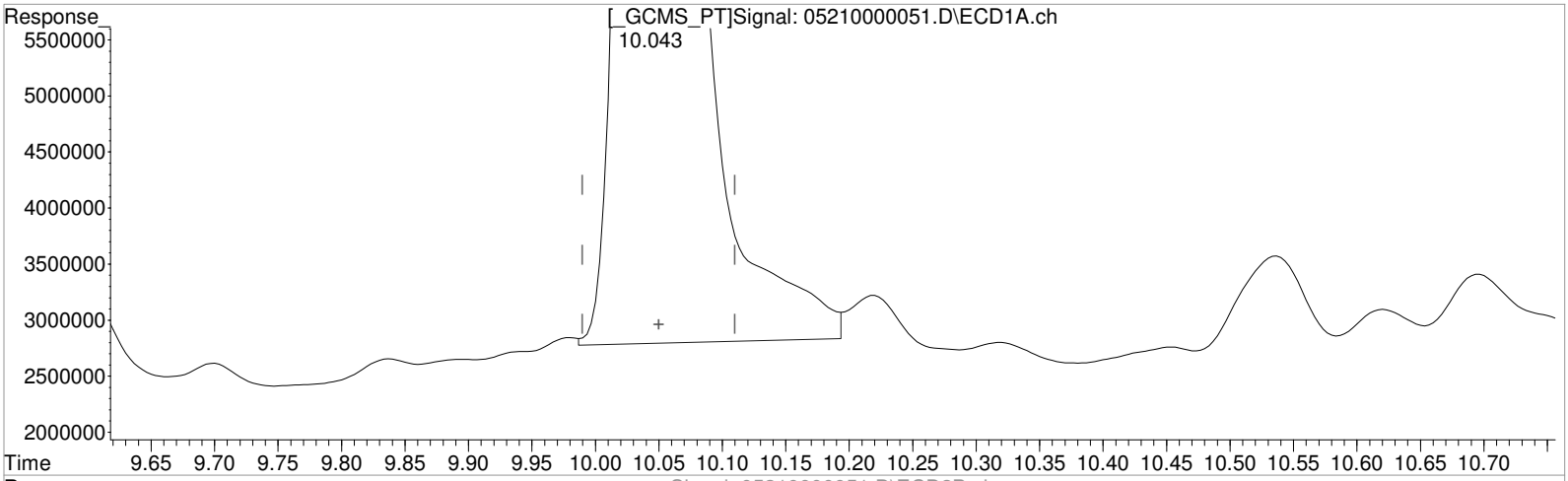


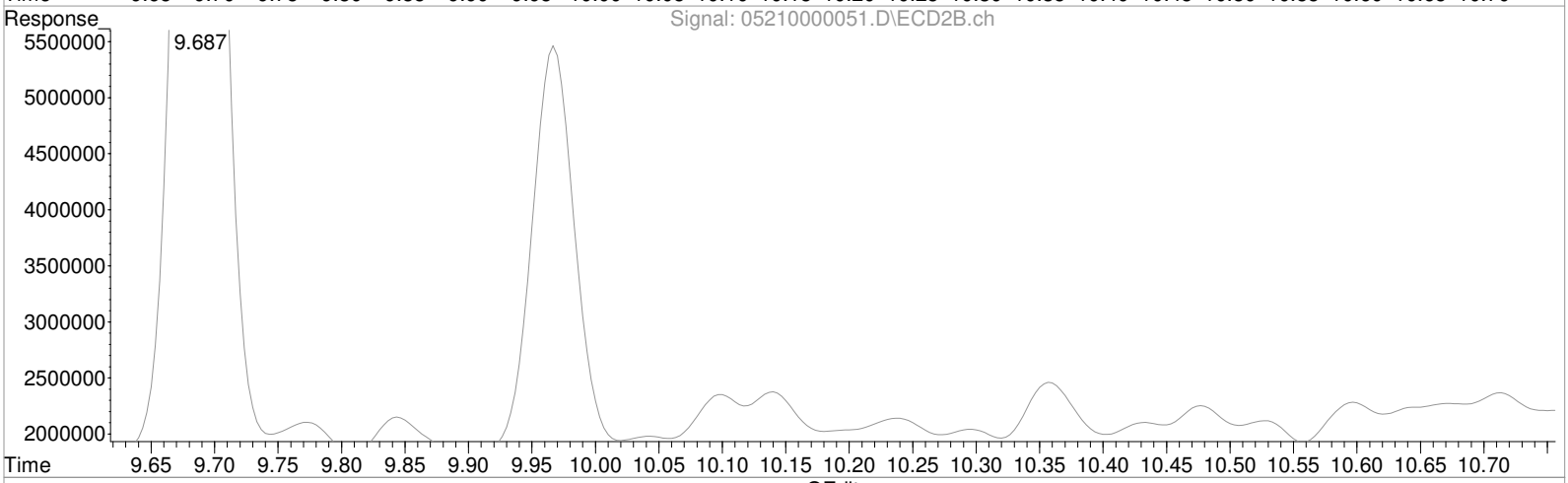
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000051.D Vial: 65
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 07:26:09 Operator: TAP
Sample : K2104778-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:43 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 80.370 ppb

response 64155006

Manual Integration:

Before

05/22/21

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

9.687min 67.395 ppb

response 30574963

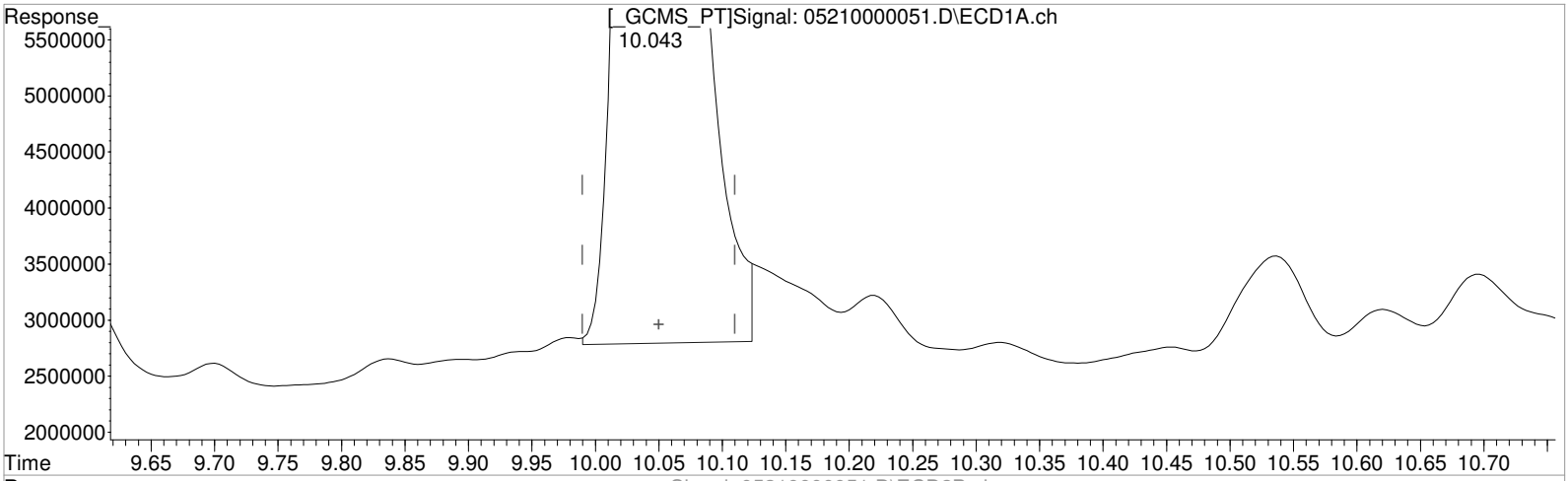
(+) = Expected Retention Time

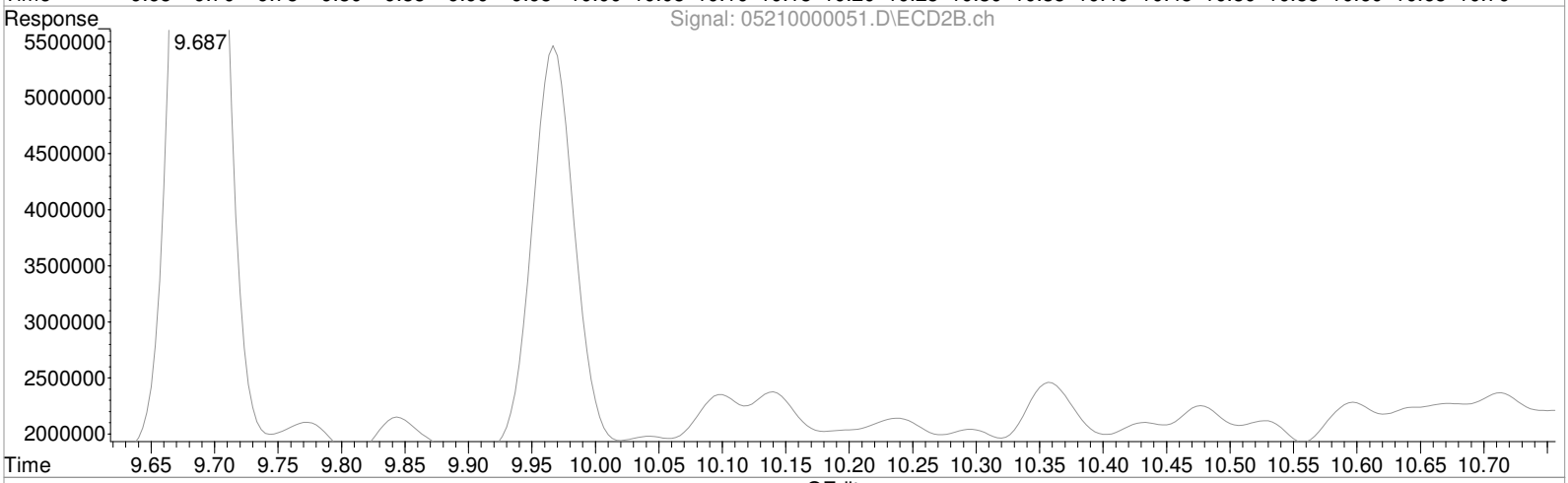
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000051.D Vial: 65
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 07:26:09 Operator: TAP
Sample : K2104778-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:43 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 77.931 ppb m

response 62208405

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

9.687min 67.395 ppb

response 30574963

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000052.D\
Lab ID: K2104778-013
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 07:50:08
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000052.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 07:50:08	**Vial:**	19
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-013	**Raw Units:**	ppb

Bottle ID:	K2104778-013.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	75041316	35809480	94.008	78.933	94	79	79	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	4.4 U	Y
2,4-D	11.26	10.90	2051433	2579920	3.070	6.374	9.3U	19J	14 U	Y

Prep Amount:	30.2930 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	54.70

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000052.D Vial: 66
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 07:50:08 Operator: TAP
Sample : K2104778-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:54:34 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	75041316	35809480	94.008	78.933	
		Target Compounds							
1)	m	Dalapon	5.623	5.227	1417232	1437673	1.383	2.586	#
3)	m	Dicamba	10.313	9.843f	1706338	781628	0.660	0.532	
4)	m	MCPP	10.467	9.967	367988	5854209	N.D.	2896.910	
5)	m	MCPA	10.613	10.240	4424118	893963	N.D.	N.D.	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	d
7)	m	2,4-D	11.263	10.900	2051433	2579920	3.070	6.374	#
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	d
9)	m	2,4,5-T	12.457f	12.127	3308420	4400319	1.532	3.541	#
10)	m	2,4-DB	13.050	12.637f	7286902	9542649	33.138	72.164	#
11)	m	Dinoseb	14.303	12.993f	5126918	5051249	2.638	4.411	#

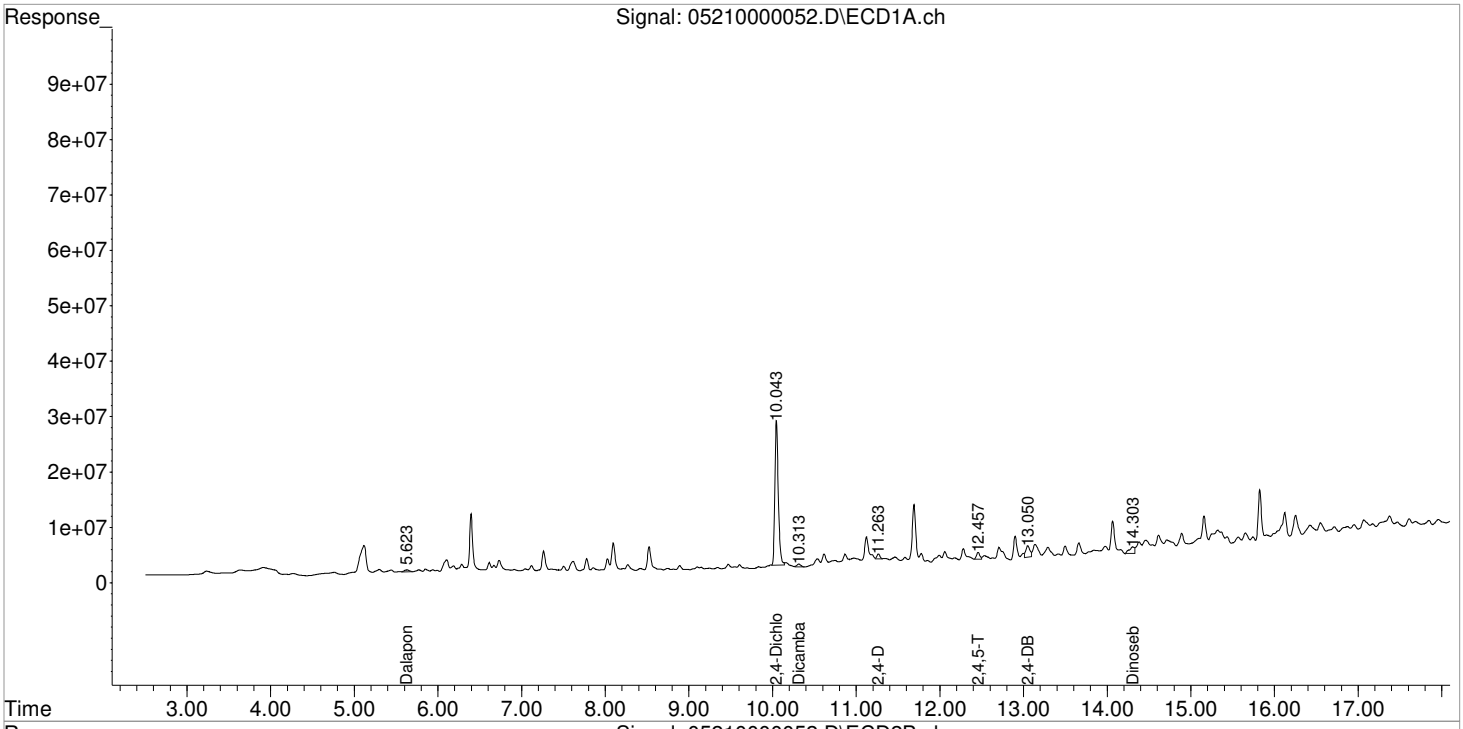
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

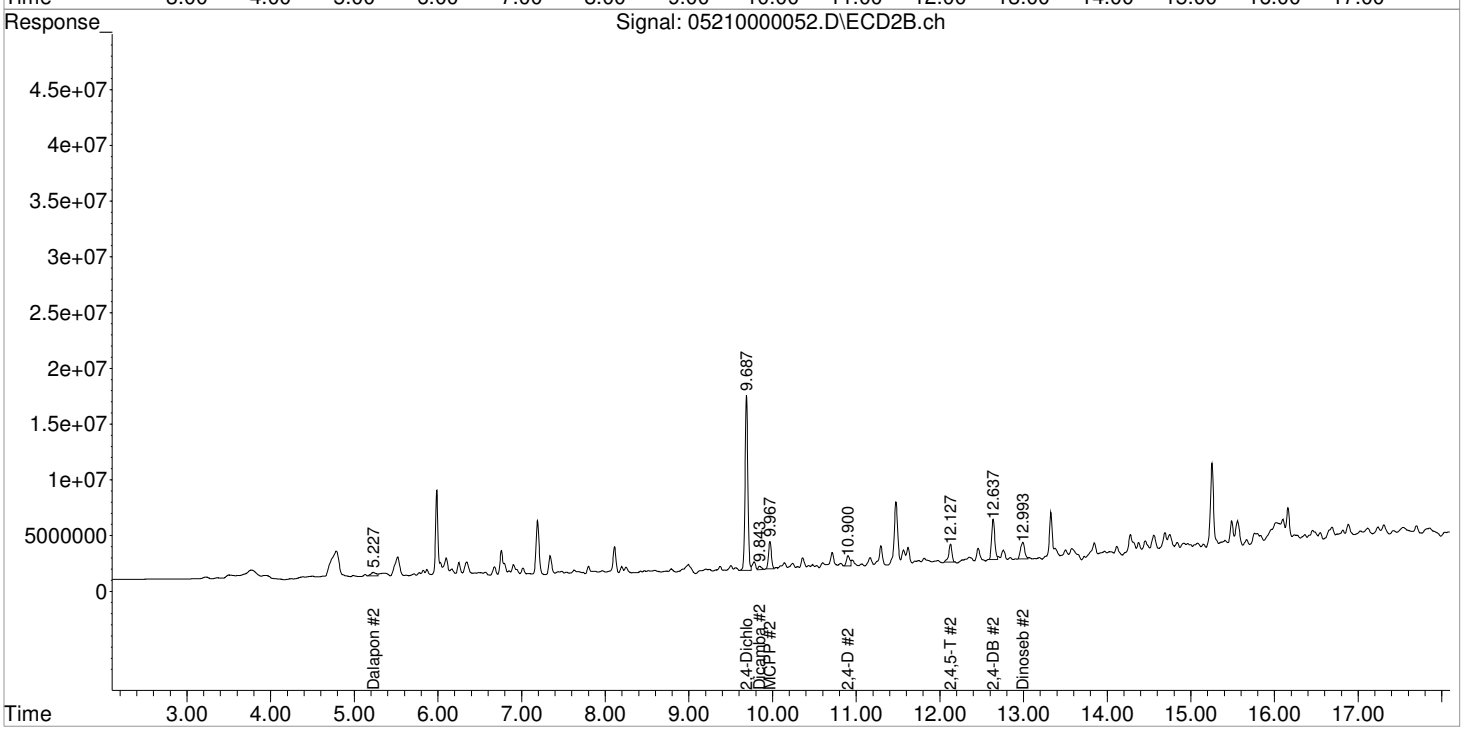
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000052.D Vial: 66
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 07:50:08 Operator: TAP
Sample : K2104778-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:54:34 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000053.D\
Lab ID: K2104778-014
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 08:14:01
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000053.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 08:14:01	**Vial:**	20
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-014	**Raw Units:**	ppb

Bottle ID:	K2104778-014.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.05 +0.01	9.69	67649167	30208887	84.747	66.588	85	67	67	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	4.2 U	Y
2,4-D	11.28 +0.02	10.90	849761	1567214	1.272	3.872	3.7U	11U	14 U	Y

Prep Amount:	30.0410 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	57.60

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000053.D Vial: 67
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 08:14:01 Operator: TAP
Sample : K2104778-014 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:55:59 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.047	9.687	67649167	30208887	84.747	66.588	
		Target Compounds							
1)	m	Dalapon	5.623	5.227	668473	596050	0.652	1.072	#
3)	m	Dicamba	10.313	9.843f	2094779	897444	0.810	0.611	
4)	m	MCPP	10.483f	9.970	1595547	8247357	N.D.	4387.423	
5)	m	MCPA	10.617	10.240	2498205	1648322	N.D.	N.D.	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	d
7)	m	2,4-D	11.277	10.903	849761	1567214	1.272	3.872	#
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	d
9)	m	2,4,5-T	12.533f	12.127	2668085	2691620	1.236	2.166	#
10)	m	2,4-DB	13.050	12.703	2595087	128611	11.802	0.973	#
11)	m	Dinoseb	14.303	12.993f	1366120	5581425	0.703	4.874	#

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

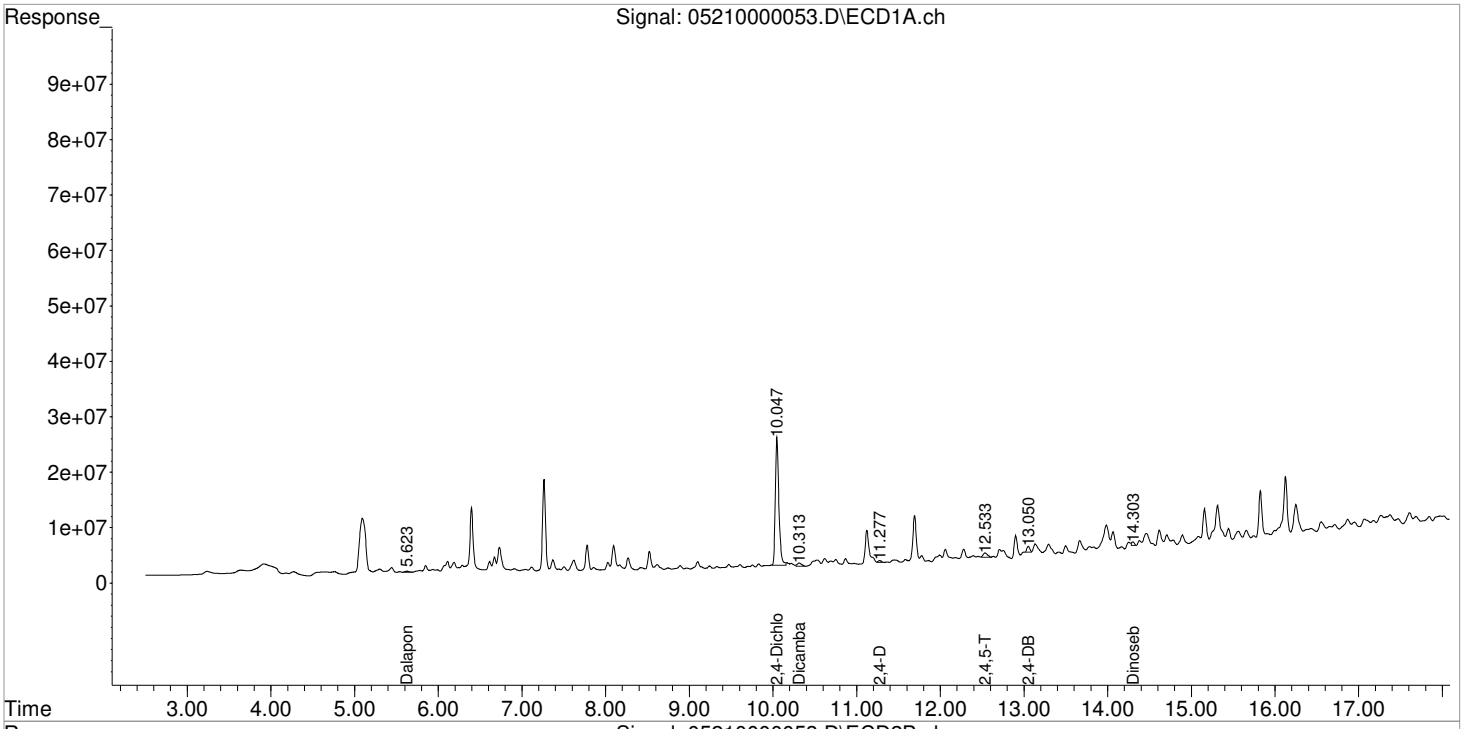
Quantitation Report (QT Reviewed)

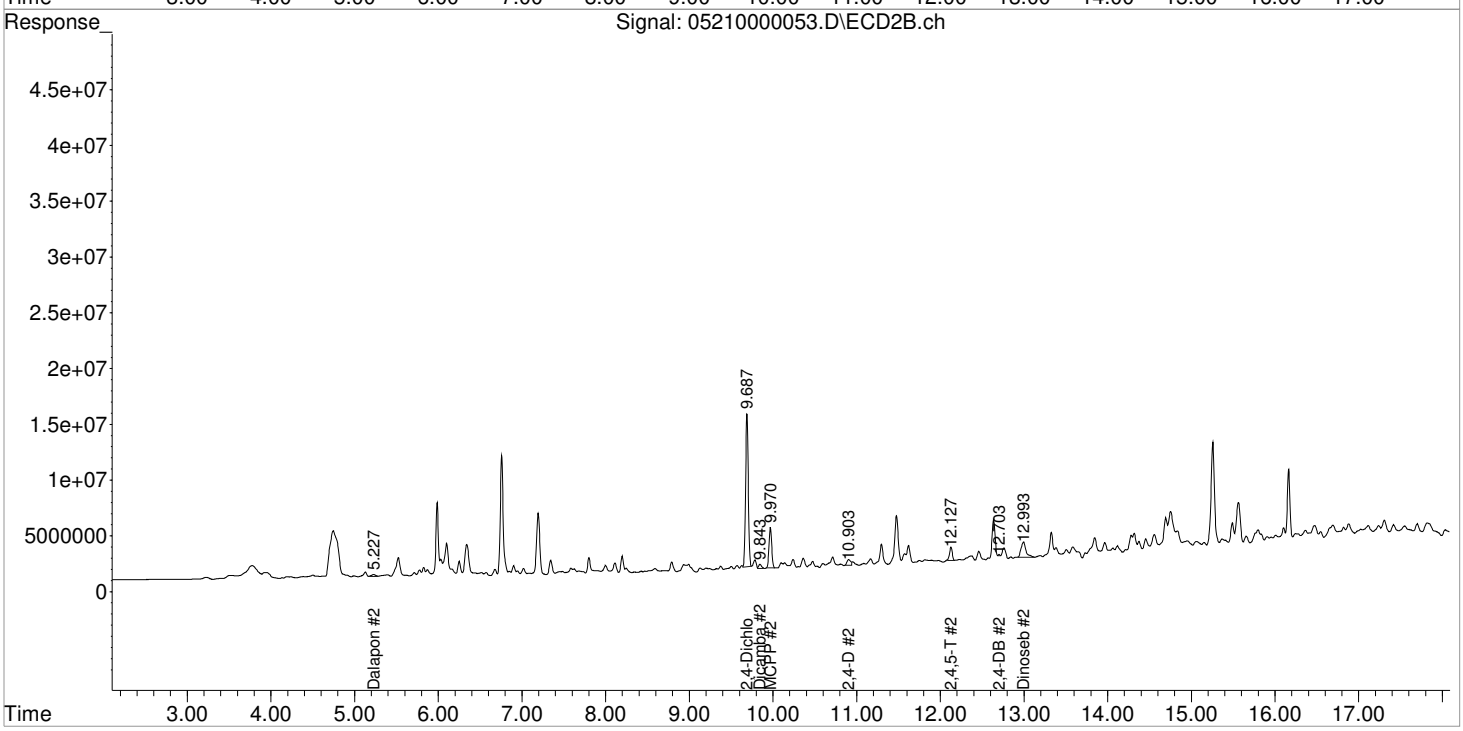
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000053.D Vial: 67
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 08:14:01 Operator: TAP
Sample : K2104778-014 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:55:59 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000054.D\
Lab ID: K2104778-015
RunType: N/A
Matrix: Sediment

Date Acquired: 5/22/21 08:37:54
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000054.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 08:37:54	**Vial:**	21
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104778-015	**Raw Units:**	ppb

Bottle ID:	K2104778-015.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	K2104778
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.05 +0.01	9.69	70738260	35501884	88.617	78.255	89	78	78	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	3.9 U	Y
2,4-D	WRT	11.30 +0.04	10.92 +0.02	5101769	2619611	7.635	6.472	20J	17J	**17** J i	Y

Prep Amount:	30.9170 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	60.70

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000054.D Vial: 68
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 08:37:54 Operator: TAP
Sample : K2104778-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:57:43 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.047	9.690	70738260	35501884	88.617m	78.255	
		Target Compounds							
1)	m	Dalapon	5.587	5.227	220883	391823	0.216	0.705	#
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D.	d
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.	d
5)	m	MCPA	10.627	10.247f	706519	605848	N.D.	N.D.	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	d
7)	m	2,4-D	11.300	10.920	5101769	2619611	7.635	6.472	
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D. d	N.D.	
9)	m	2,4,5-T	12.533f	12.127	3447826	5102842	1.597	4.107	#
10)	m	2,4-DB	13.057	12.637f	6959009	11656665	31.647	88.151	#
11)	m	Dinoseb	14.250f	13.060	16507925	2336341	8.493	2.040	#

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

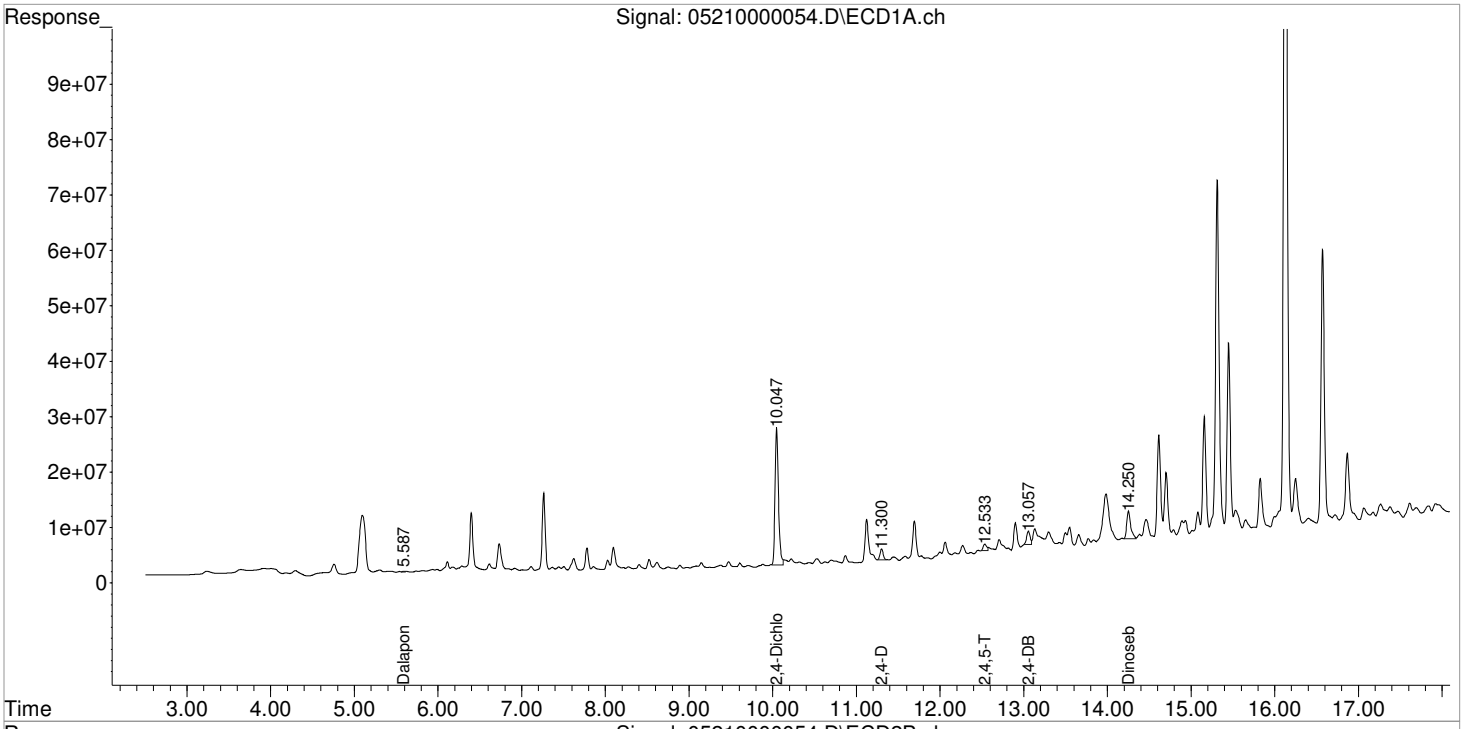
Quantitation Report (QT Reviewed)

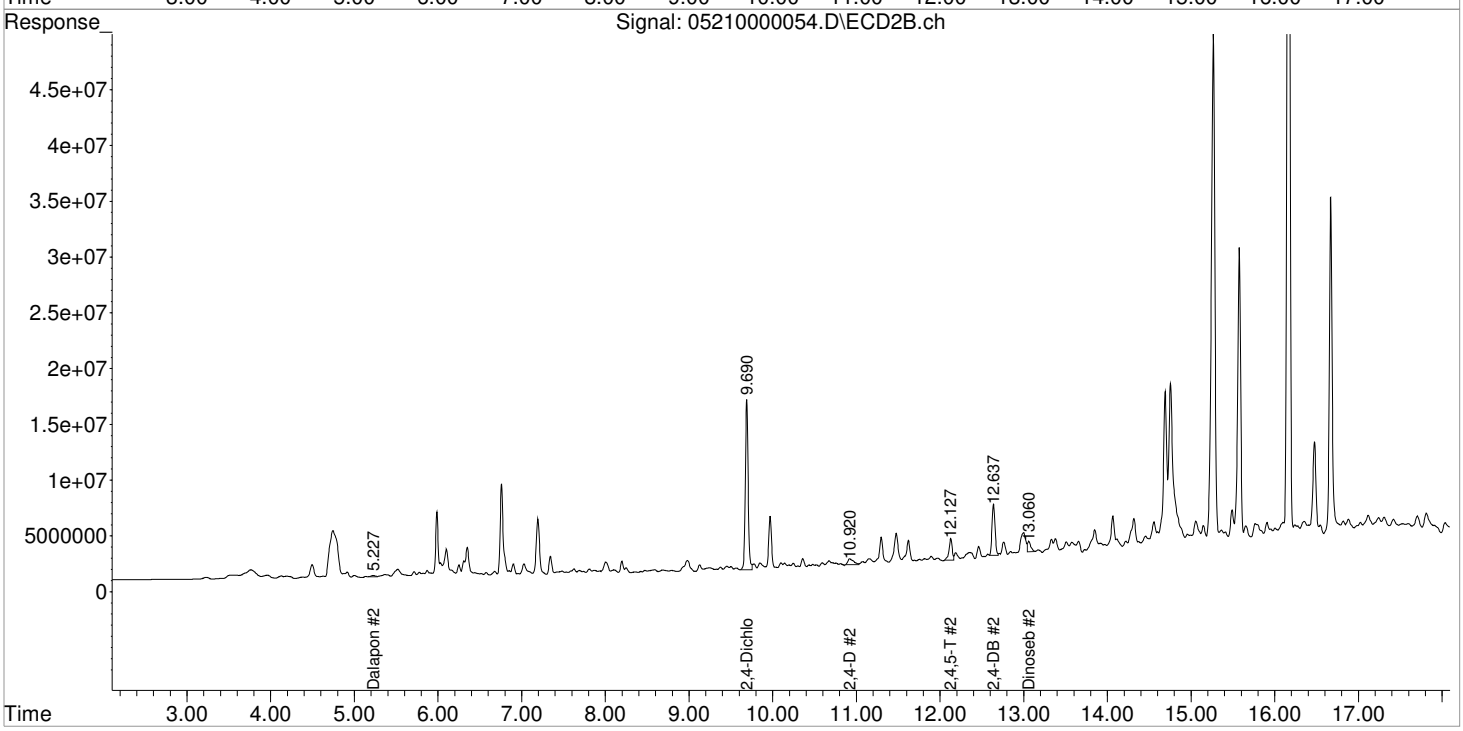
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000054.D Vial: 68
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 08:37:54 Operator: TAP
Sample : K2104778-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:57:43 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



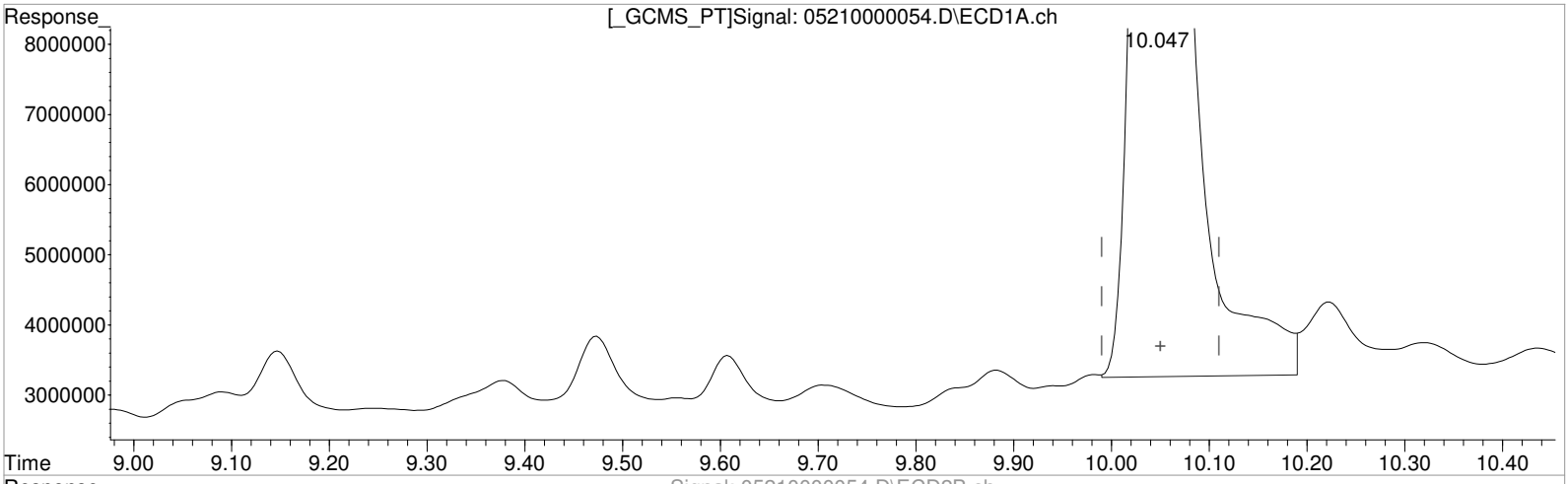


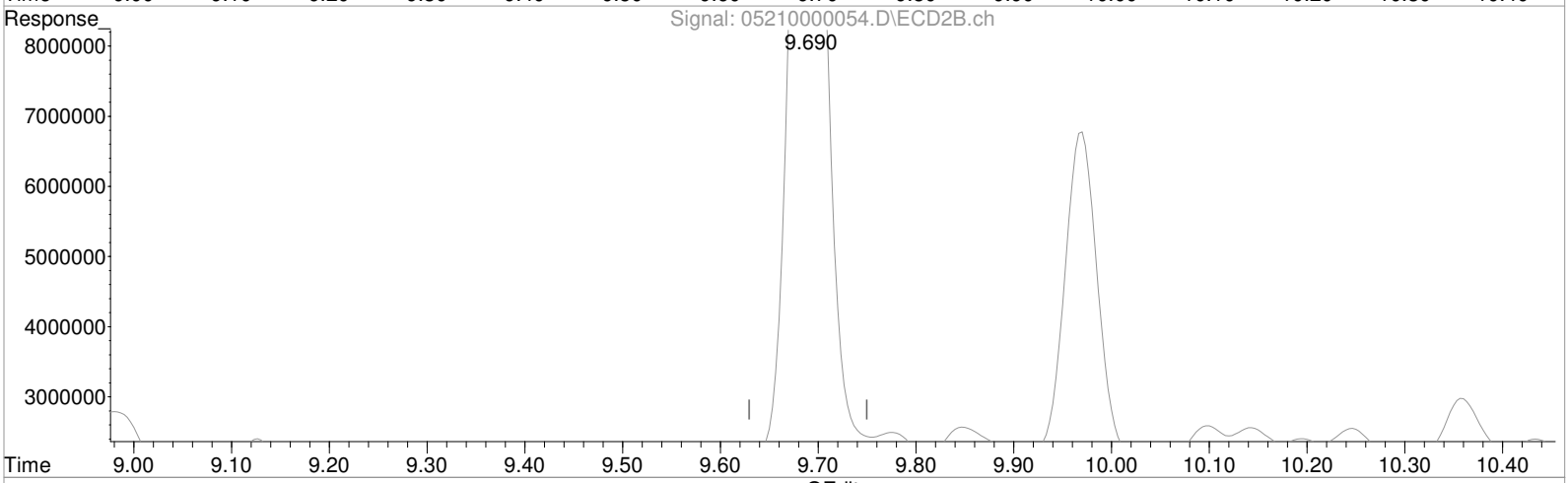
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000054.D Vial: 68
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 08:37:54 Operator: TAP
Sample : K2104778-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:52 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.047min 92.178 ppb

response 73580660

Manual Integration:

Before

05/22/21

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

9.690min 78.255 ppb

response 35501884

(+) = Expected Retention Time

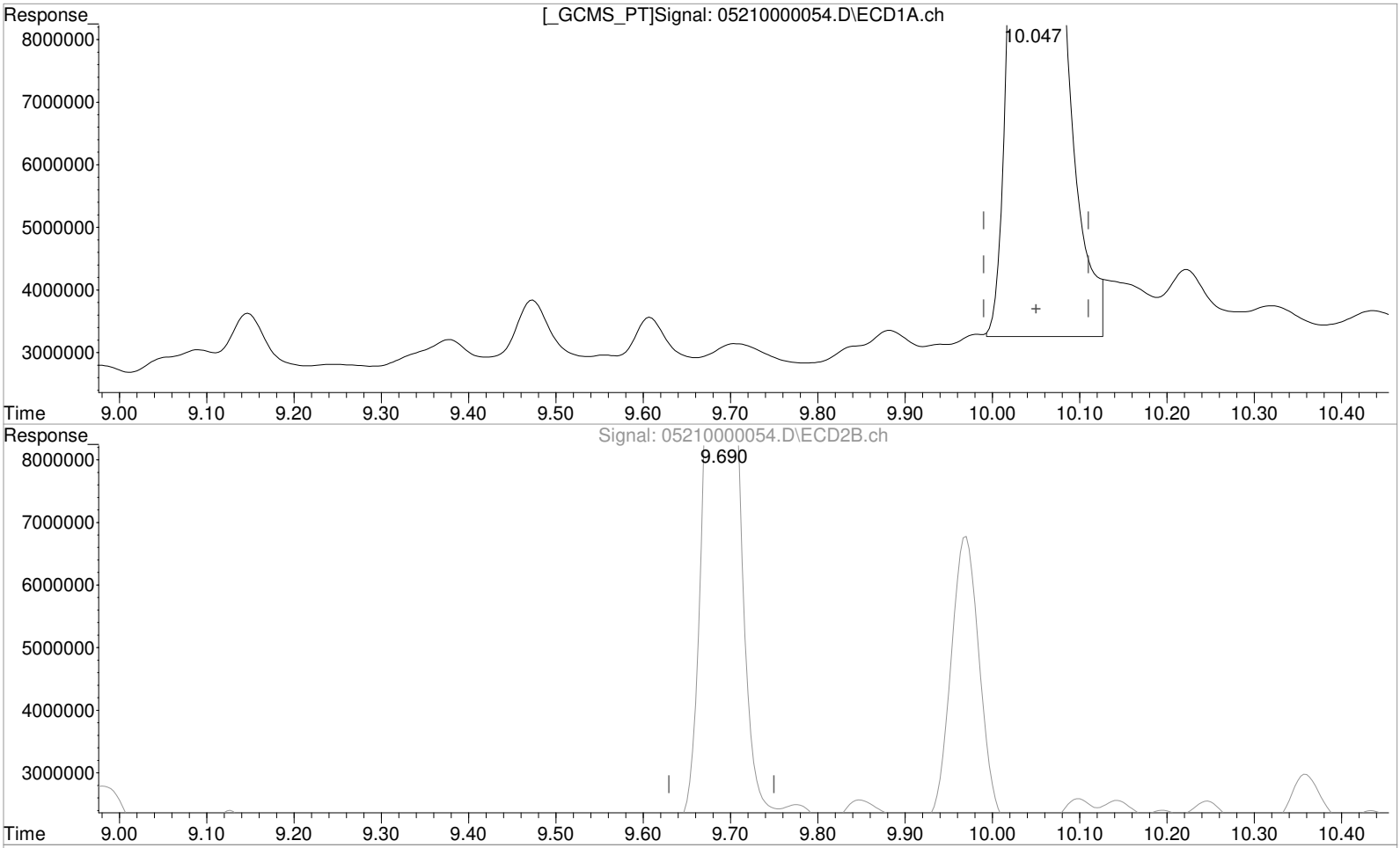
Quantitation Report (Qedit)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000054.D Vial: 68
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 08:37:54 Operator: TAP
Sample : K2104778-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:52 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.047min 88.617 ppb m

response 70738260

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

9.690min 78.255 ppb

response 35501884

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000035.D\
Lab ID: KQ2107591-04
RunType: MB
Matrix: Sediment

Date Acquired: 5/22/21 01:02:33
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000035.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 01:02:33	**Vial:**	25
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2107591-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	KQ2107591
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	59729028	29684262	74.825	65.431	75	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)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	7.7 U	Y

Prep Amount:	30.9170 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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000035.D Vial: 51
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:02:33 Operator: TAP
Sample : KQ2107591-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:11:32 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	59729028	29684262	74.825	65.431
		Target Compounds						
1)	m	Dalapon	5.617	5.223	2294458	2777308	2.239	4.996 #
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. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D.
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7)	m	2,4-D	0.000	0.000	0	0	N.D. d	N.D.
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9)	m	2,4,5-T	12.497	12.187f	287777	263922	0.133	0.212 #
10)	m	2,4-DB	13.047	12.710f	703187	630178	3.198	4.766 #
11)	m	Dinoseb	0.000	0.000	0	0	N.D.	N.D. d

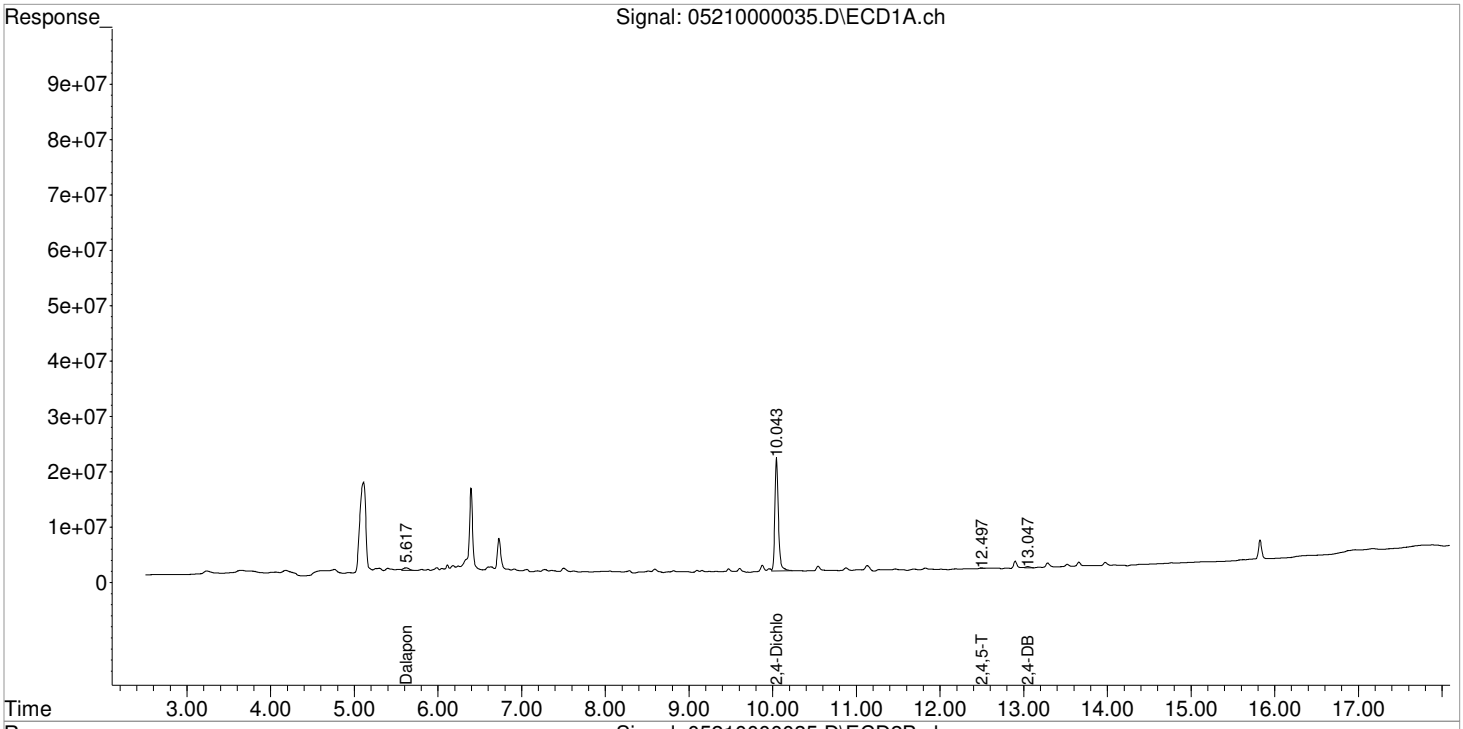
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

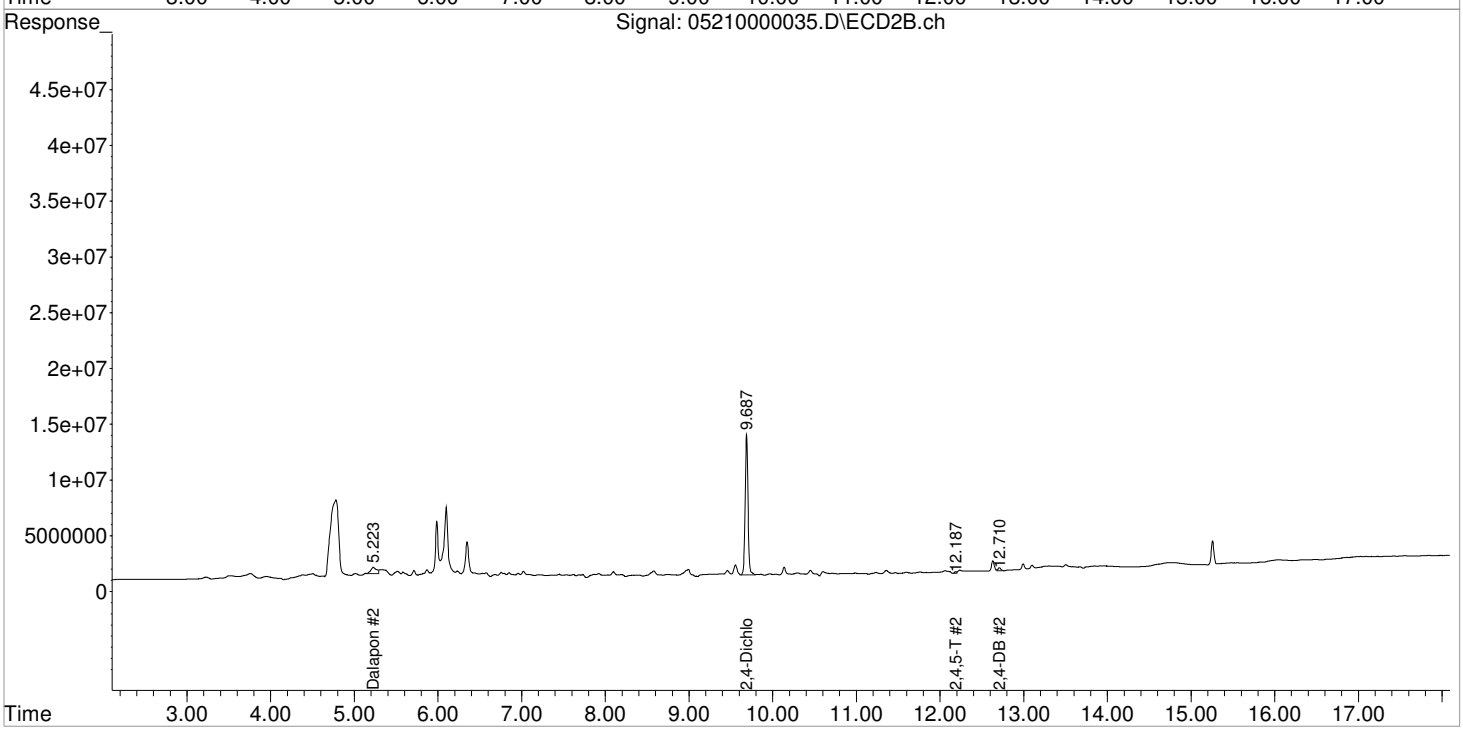
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000035.D Vial: 51
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 01:02:33 Operator: TAP
Sample : KQ2107591-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:11:32 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000034.D\
Lab ID: KQ2107591-03
RunType: LCS
Matrix: Sediment

Date Acquired: 5/22/21 00:38:38
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000034.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 00:38:38	**Vial:**	24
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2107591-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	KQ2107591
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	79789594	37395461	99.956	82.429	100	82	82	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)	12.19	11.76	283944927	145737060	97.470	86.548	162	144	**144**	Y
2,4-D	11.26 -0.01	10.90	71753760	34638123	107.385	85.574	179	143	**143**	Y

Prep Amount:	30.0000 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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000034.D Vial: 50
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 00:38:38 Operator: TAP
Sample : KQ2107591-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:09:42 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	79789594	37395461	99.956	82.429	
		Target Compounds							
1)	m	Dalapon	5.587	5.223	57255011	30624617	55.862	55.090	
3)	m	Dicamba	10.280	9.903	271.7E6	128.0E6	105.073	87.105	
4)	m	MCPP	10.427	9.967	29829683	15355743	8975.586	8814.704	
5)	m	MCPA	10.590	10.207	42222242	19689766	8384.858	6846.668	
6)	m	Dichloroprop	11.020	10.577	61958574	37567832	87.290	90.369	
7)	m	2,4-D	11.263	10.897	71753760	34638123	107.385m	85.574m	
8)	m	2,4,5-TP ...	12.187	11.757	283.9E6	145.7E6	97.470	86.548	
9)	m	2,4,5-T	12.483	12.153	226.0E6	118.9E6	104.656	95.667	
10)	m	2,4-DB	13.043	12.670	41896292	13176726	190.531	99.646	#
11)	m	Dinoseb	14.280	13.030	114.4E6	61007930	58.863	53.278	

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

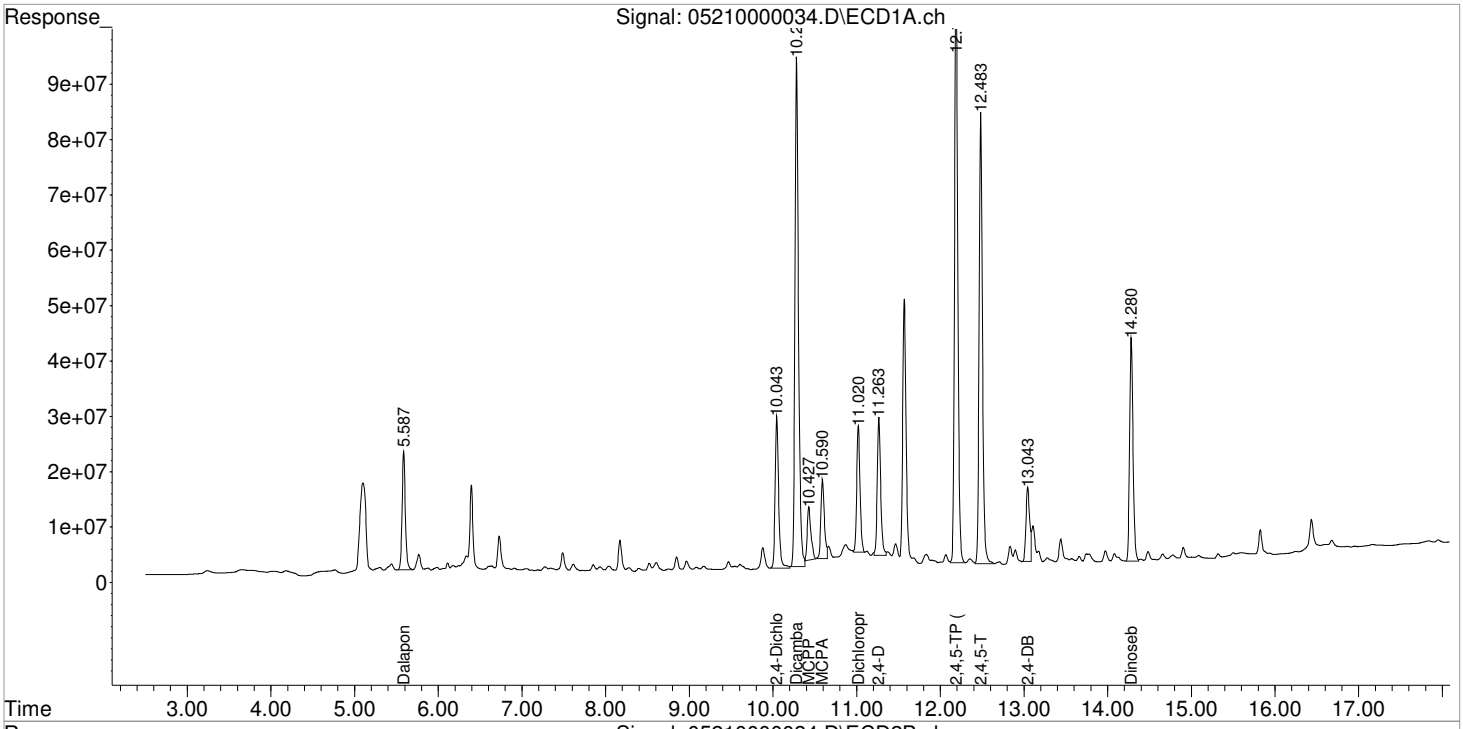
Quantitation Report (QT Reviewed)

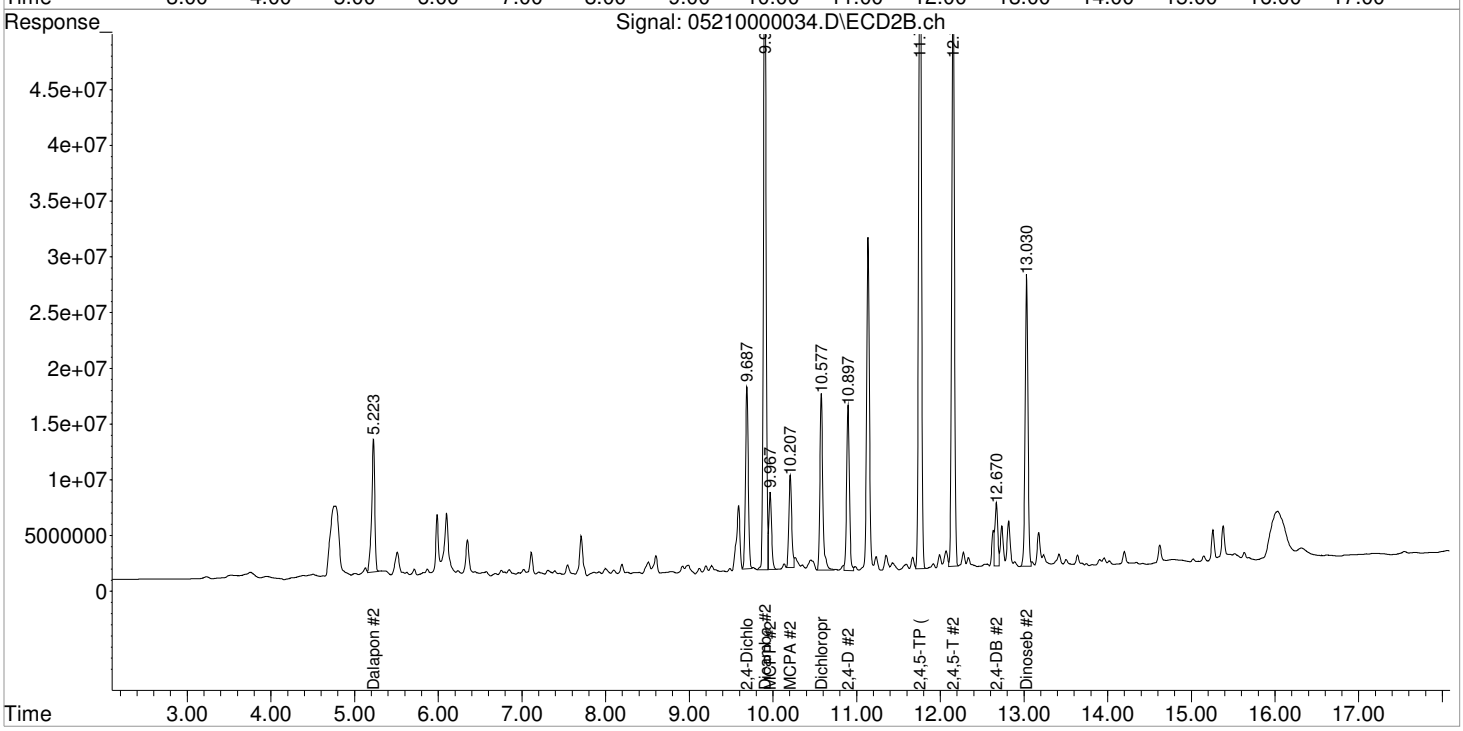
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000034.D Vial: 50
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 00:38:38 Operator: TAP
Sample : KQ2107591-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:09:42 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



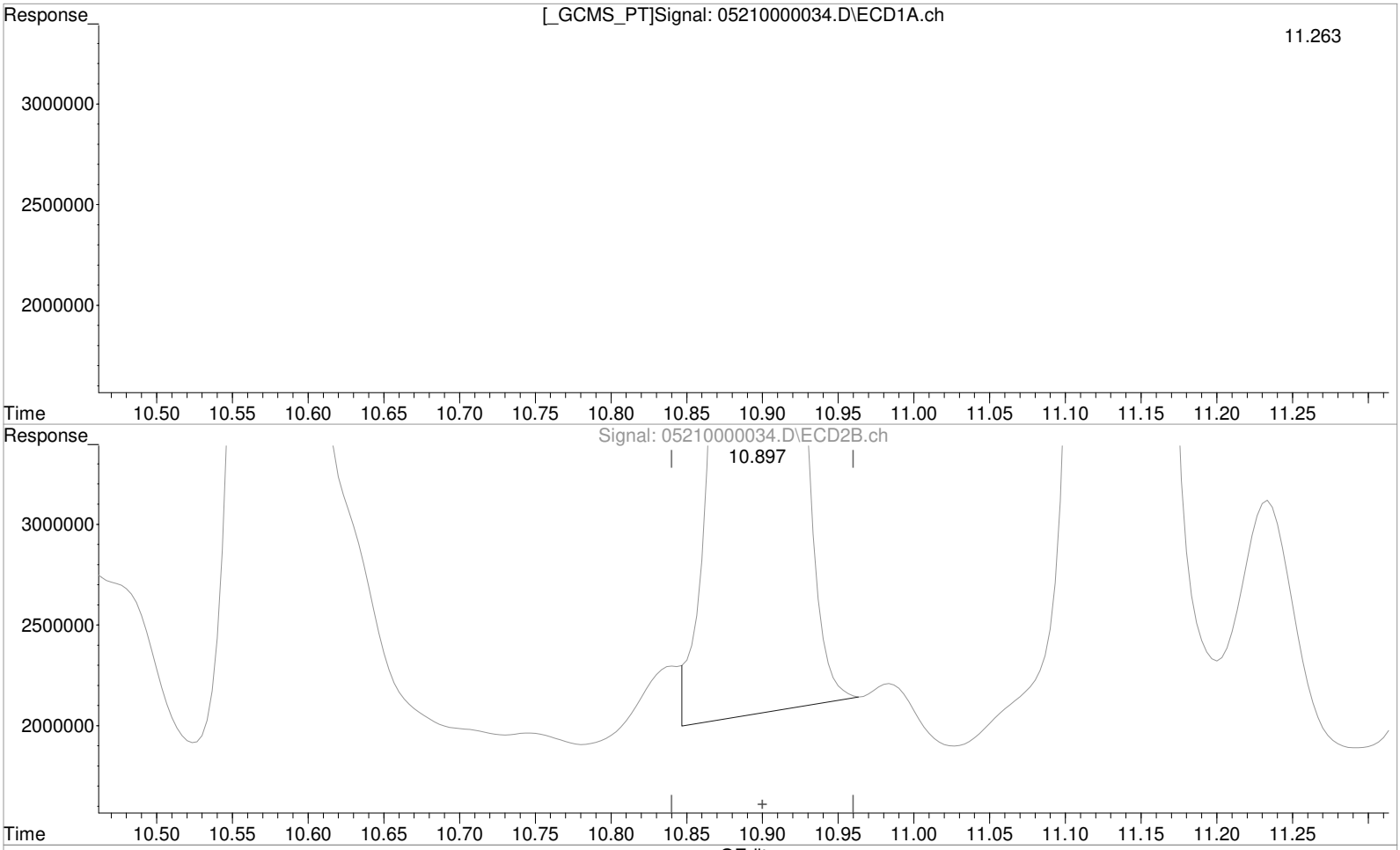


1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000034.D Vial: 50
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 00:38:38 Operator: TAP
Sample : KQ2107591-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:58:52 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.263min 107.606 ppb

response 71901478

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

10.897min 82.003 ppb

response 33192739

Manual Integration:

Before

05/22/21

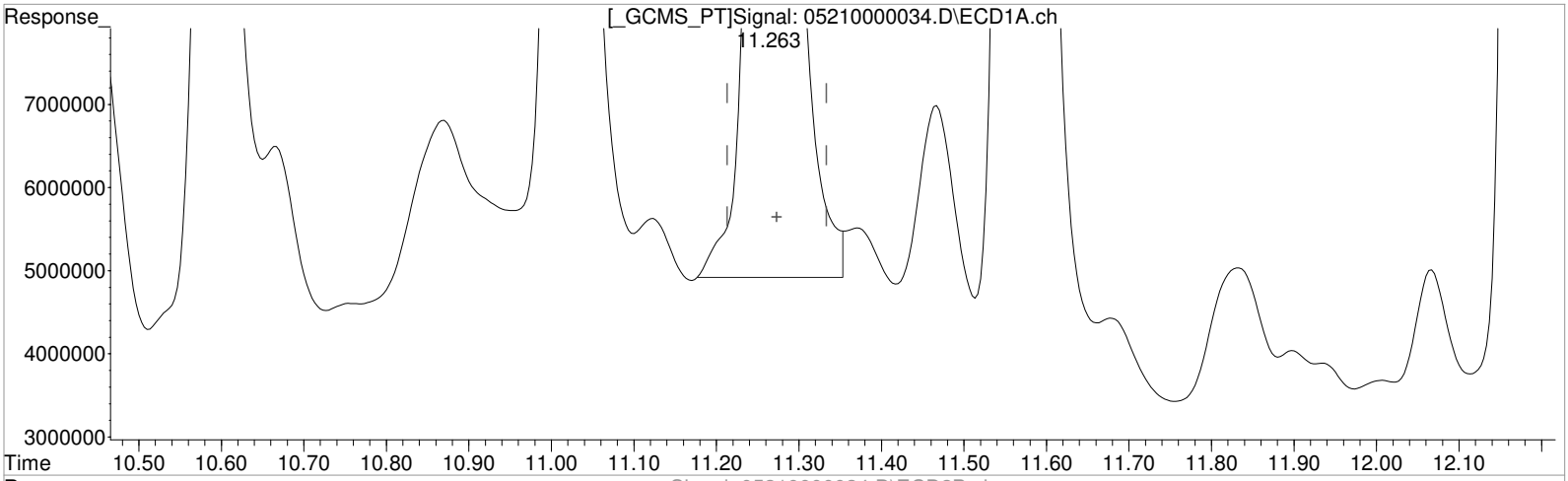
(+) = Expected Retention Time

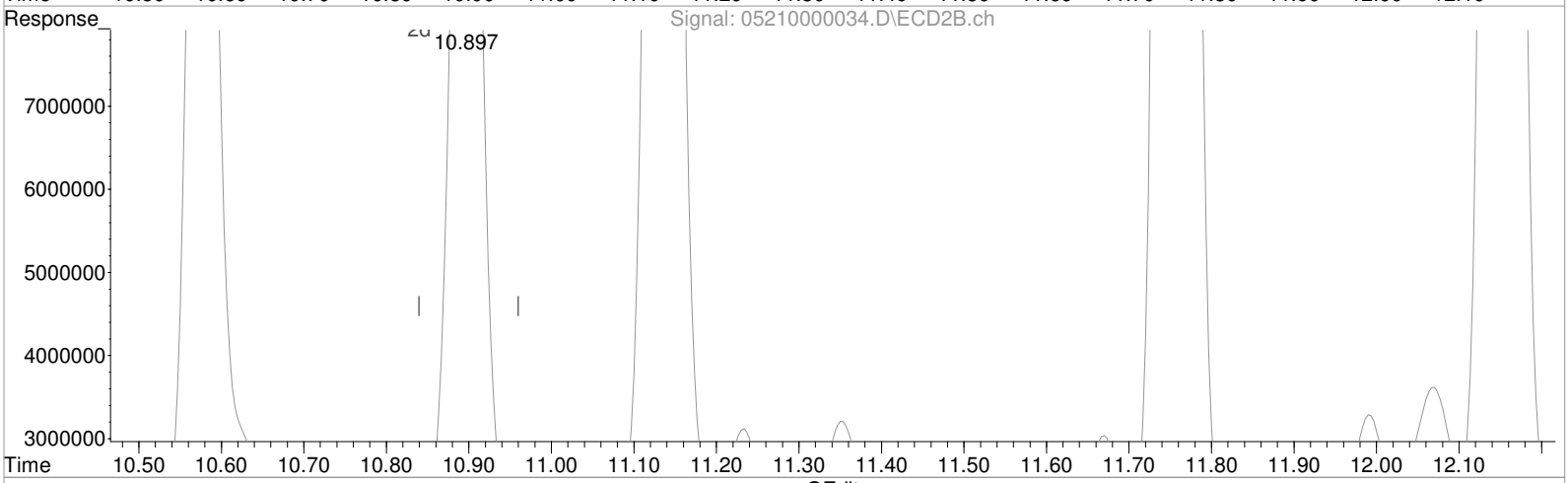
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000034.D Vial: 50
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 00:38:38 Operator: TAP
Sample : KQ2107591-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:58:52 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.263min 107.606 ppb

response 71901478

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

10.897min 85.574 ppb m

response 34638123

Manual Integration:

Before

05/22/21

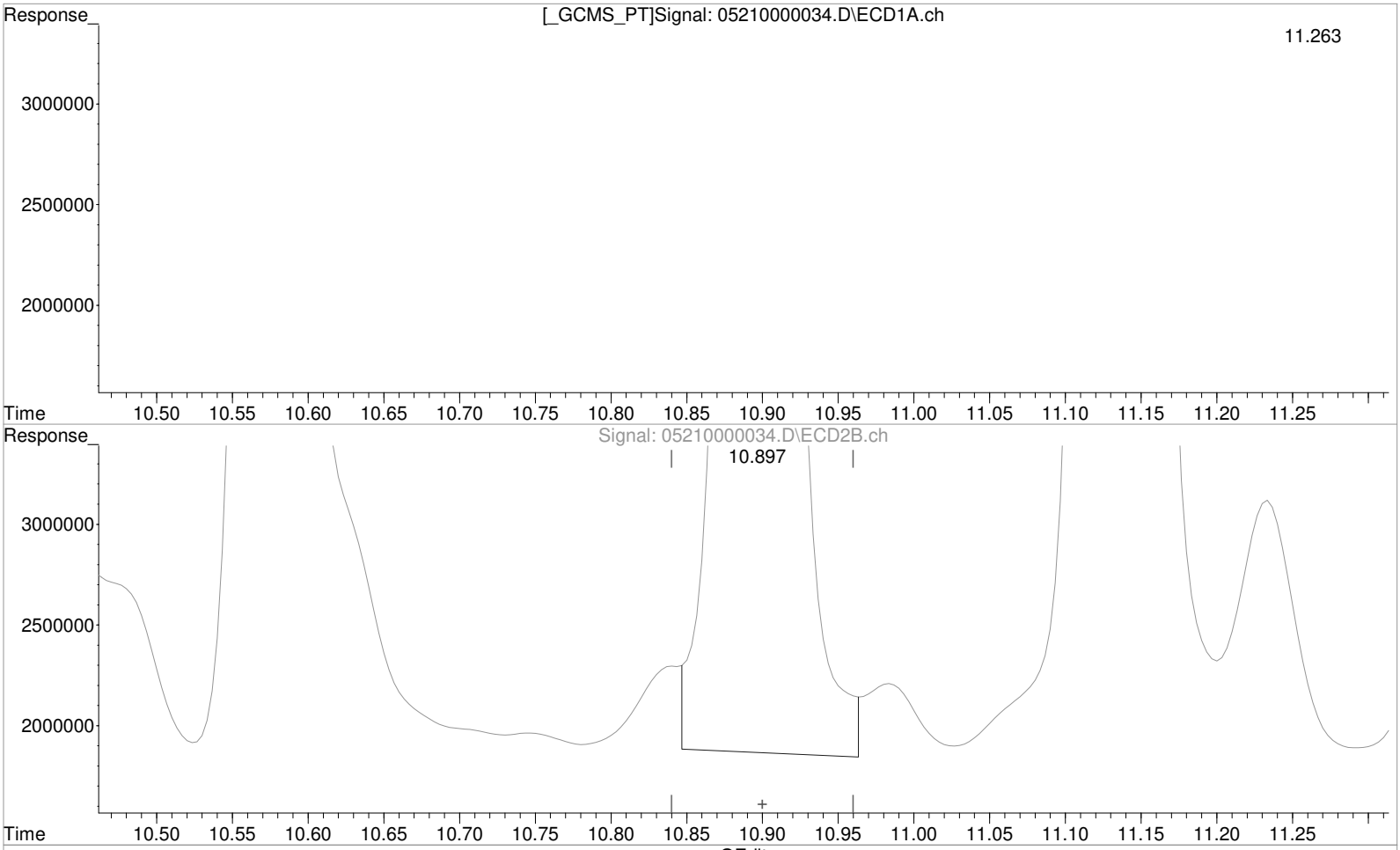
(+) = Expected Retention Time

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000034.D Vial: 50
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 00:38:38 Operator: TAP
Sample : KQ2107591-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:58:52 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.263min 107.606 ppb

response 71901478

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

10.897min 85.574 ppb m

response 34638123

(+) = Expected Retention Time

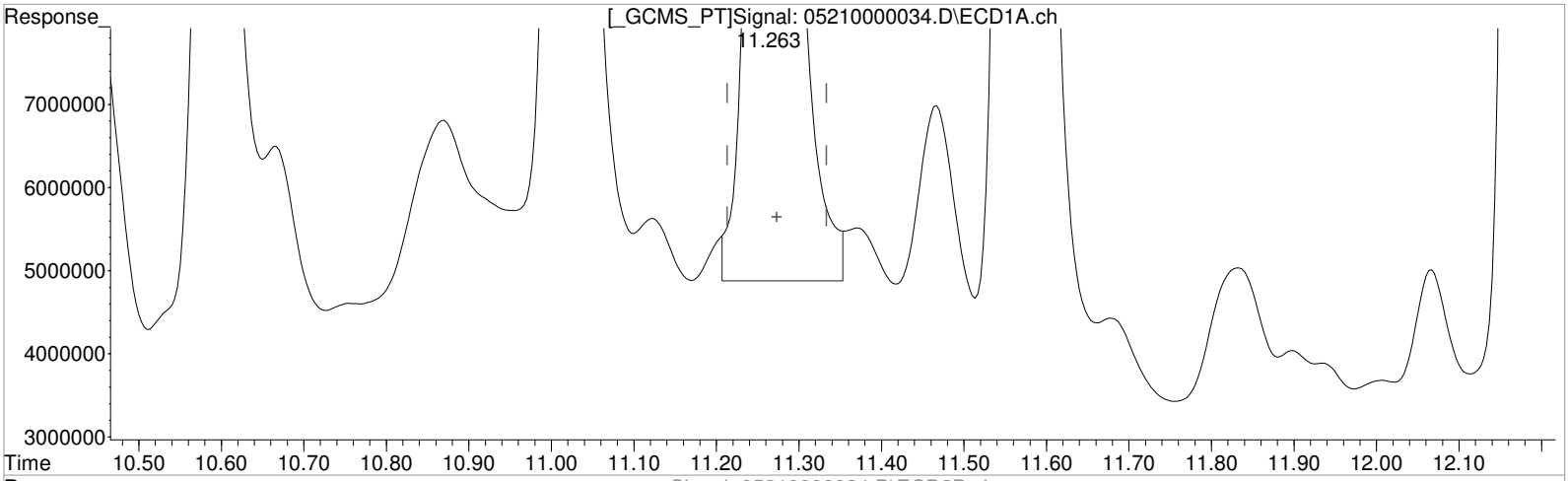
Quantitation Report (Qedit)

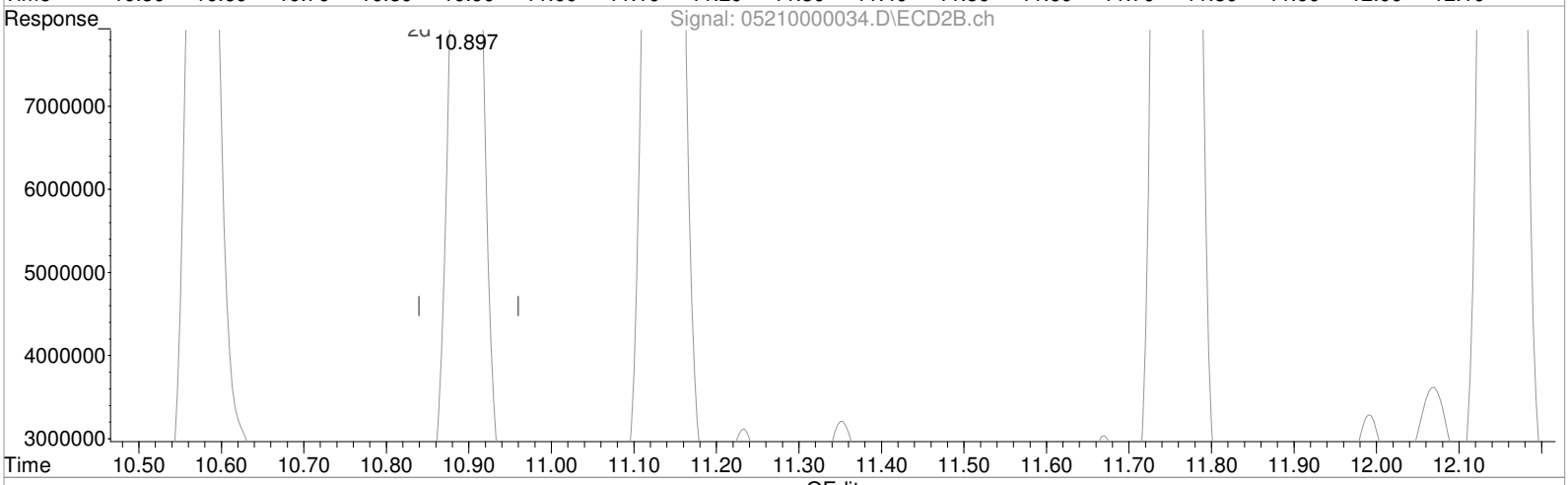
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000034.D Vial: 50
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 00:38:38 Operator: TAP
Sample : KQ2107591-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:58:52 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

11.263min 107.385 ppb m

response 71753760

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

10.897min 85.574 ppb m

response 34638123

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000039.D\
Lab ID: KQ2107591-01
RunType: MS
Matrix: Sediment

Date Acquired: 5/22/21 02:38:35
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000039.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 02:38:35	**Vial:**	22
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ2107591-01	**Raw Units:**	ppb

Bottle ID:	K2104778-003.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	KQ2107591
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.05 +0.01	9.69	80078742	38249302	100.319	84.311	100	84	84	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)	12.19	11.76	309896351	160163442	106.379	95.116	296	265	**265**	Y
2,4-D	11.27	10.90	69273931	38908456	103.673	96.124	288	267	**267**	Y

Prep Amount:	30.4540 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	59.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 5/24/21 13:42
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000039.D Vial: 55
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 02:38:35 Operator: TAP
Sample : K2104778-003 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:28:08 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.047	9.690	80078742	38249302	100.319	84.311
		Target Compounds						
1)	m	Dalapon	5.587	5.227	49036491	26461046	47.844	47.600
3)	m	Dicamba	10.283	9.903	236.9E6	123.3E6	91.607	83.897
4)	m	MCPP	10.430	9.967	42083612	20912781	12978.952	12275.767
5)	m	MCPA	10.593	10.207	45920669	25911747	9209.014	9289.762
6)	m	Dichloroprop	11.020	10.577	63396987	34612063	89.316	83.042
7)	m	2,4-D	11.267	10.897	69273931	38908456	103.673	96.124
8)	m	2,4,5-TP ...	12.190	11.757	309.9E6	160.2E6	106.379	95.116
9)	m	2,4,5-T	12.483	12.153	266.3E6	141.9E6	123.358	114.193
10)	m	2,4-DB	13.043	12.667	57194654	20156186	260.102	152.426m#
11)	m	Dinoseb	14.283	13.030	100.4E6	55979670	51.672	48.887

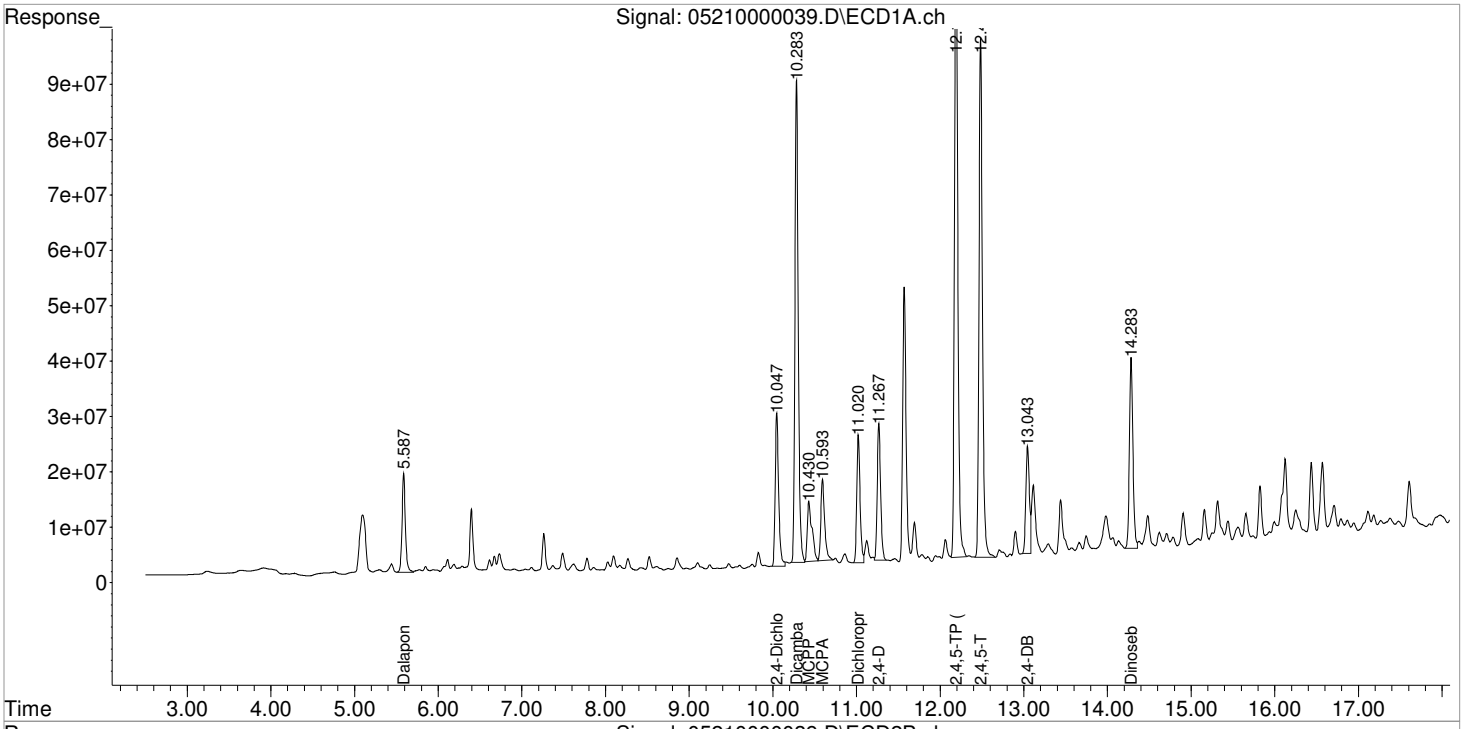
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

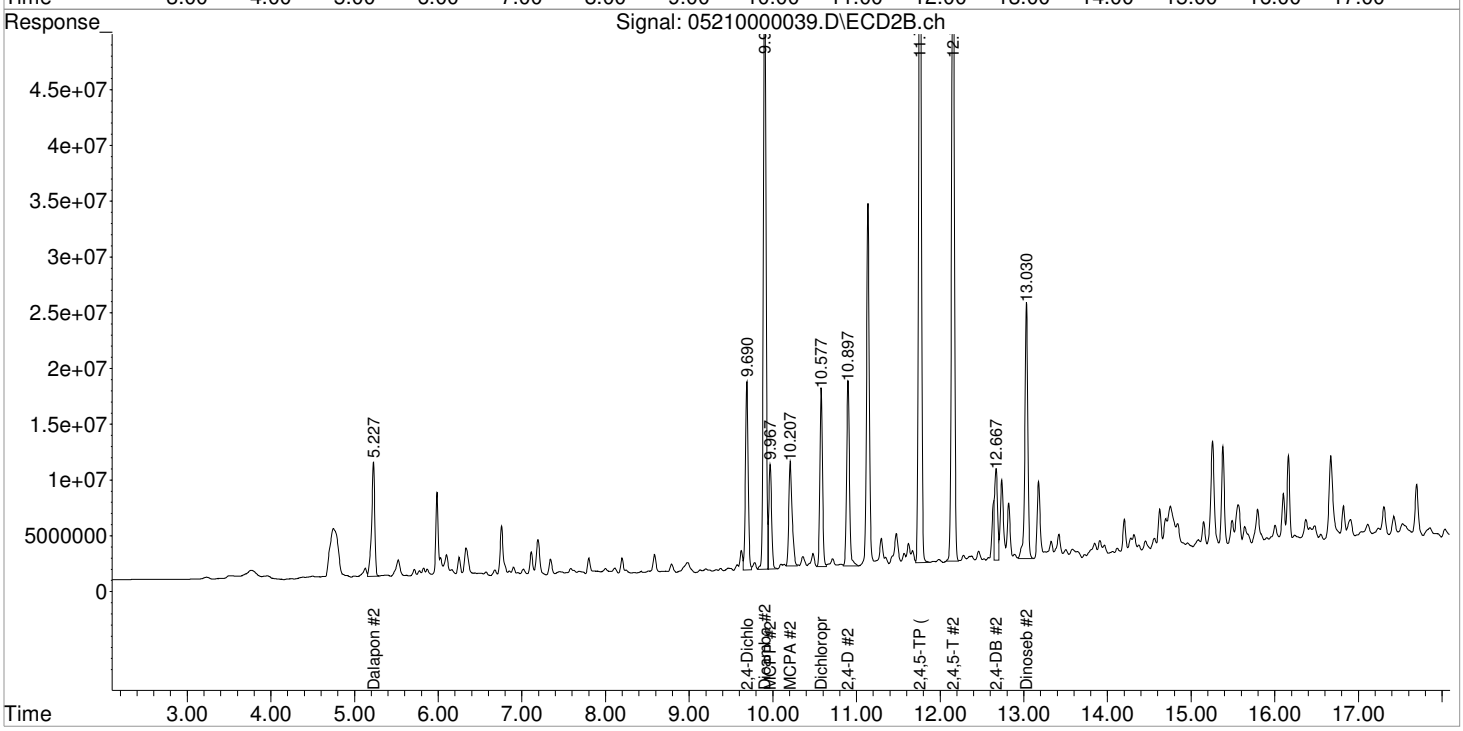
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000039.D Vial: 55
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 02:38:35 Operator: TAP
Sample : K2104778-003 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:28:08 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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





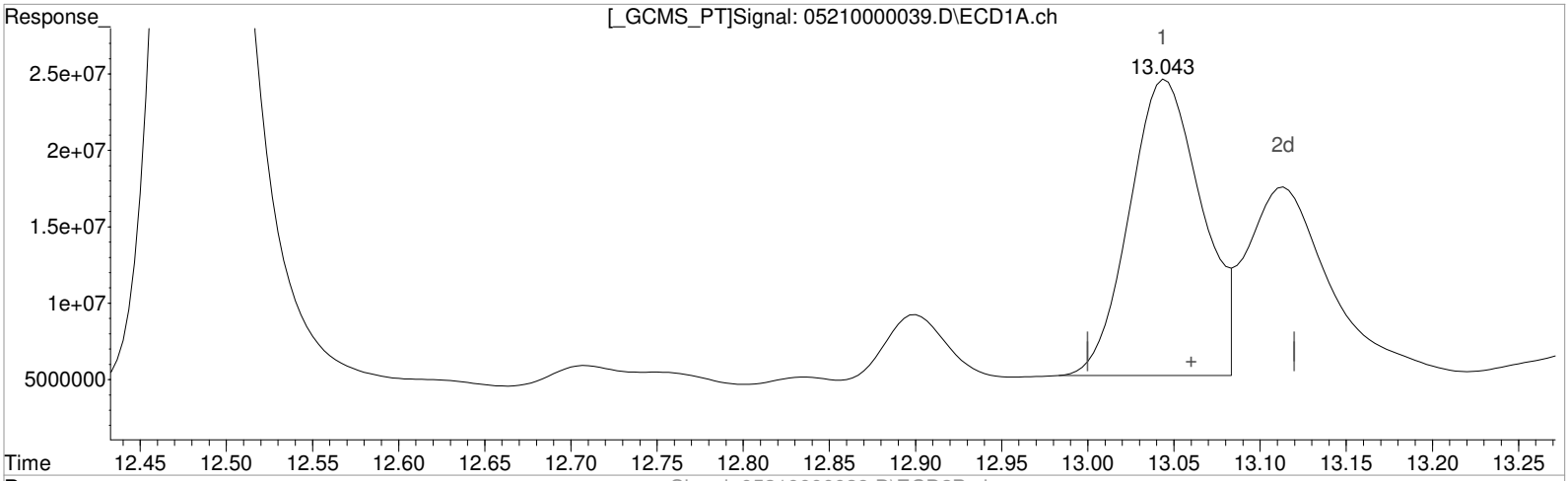
Quantitation Report (Qedit)

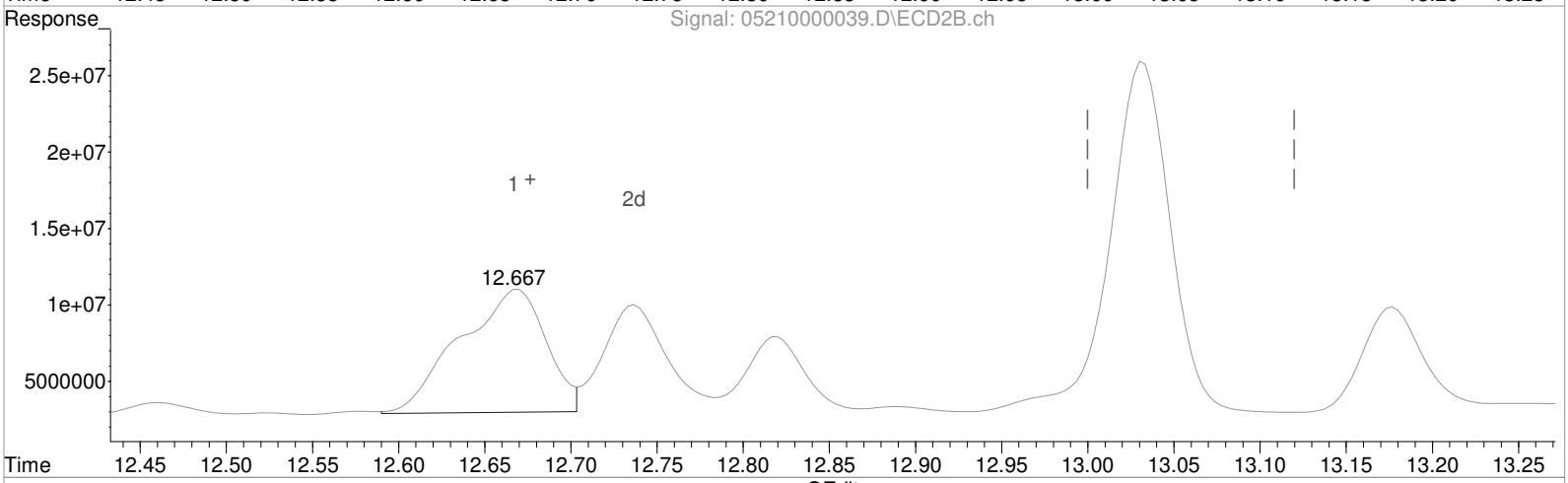
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000039.D Vial: 55
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 02:38:35 Operator: TAP
Sample : K2104778-003 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:07 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

13.043min 260.102 ppb

response 57194654

Manual Integration:

Before

05/22/21

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

12.667min 213.251 ppb

response 28199327

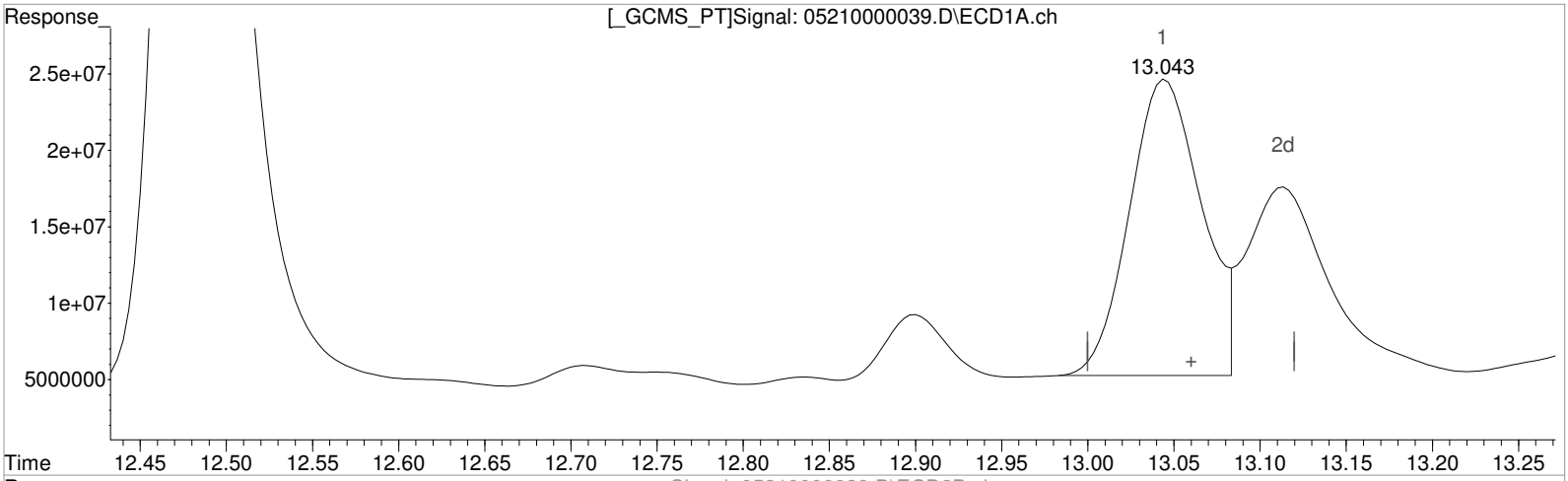
(+) = Expected Retention Time

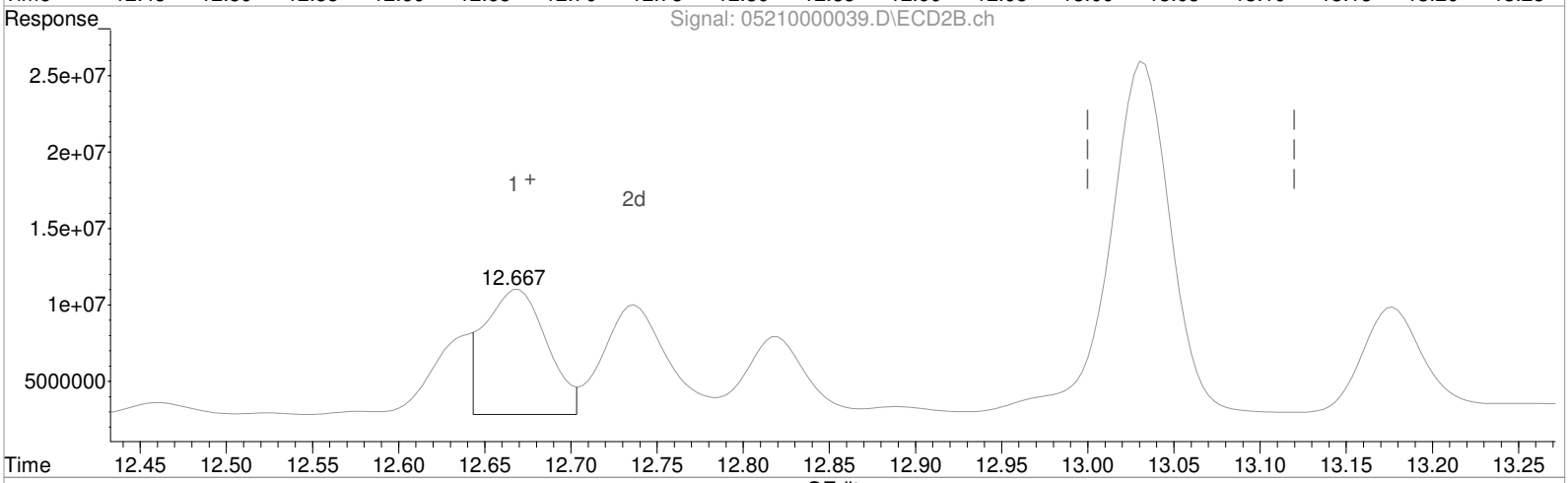
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000039.D Vial: 55
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 02:38:35 Operator: TAP
Sample : K2104778-003 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:07 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

13.043min 260.102 ppb

response 57194654

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

12.667min 152.426 ppb m

response 20156186

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000040.D\
Lab ID: KQ2107591-02
RunType: DMS
Matrix: Sediment

Date Acquired: 5/22/21 03:02:36
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000040.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 03:02:36	**Vial:**	23
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ2107591-02	**Raw Units:**	ppb

Bottle ID:	K2104778-003.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**	378807	**Report Group:**	KQ2107591
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	10.04	9.69	78479982	36046137	98.316	79.454	98	79	79	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)	12.19	11.76	313449007	161823578	107.598	96.102	299	267	**267**	Y
2,4-D	11.27	10.90	71212682	40165199	106.575	99.229	297	276	**276**	Y

Prep Amount:	30.4560 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	59.00

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000040.D Vial: 56
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:02:36 Operator: TAP
Sample : K2104778-003 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:29:47 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	78479982	36046137	98.316	79.454
		Target Compounds						
1)	m	Dalapon	5.587	5.227	54842197	28956307	53.508	52.089
3)	m	Dicamba	10.280	9.903	237.5E6	124.4E6	91.828	84.673
4)	m	MCPP	10.427	9.967	41128948	21889162	12667.063	12883.881
5)	m	MCPA	10.593	10.207	51027483	25017661	10347.014	8938.694
6)	m	Dichloroprop	11.020	10.577	64688358	34753734	91.136	83.393
7)	m	2,4-D	11.267	10.897	71212682	40165199	106.575	99.229
8)	m	2,4,5-TP ...	12.190	11.757	313.4E6	161.8E6	107.598m	96.102
9)	m	2,4,5-T	12.483	12.153	281.1E6	148.0E6	130.204	119.121
10)	m	2,4-DB	13.043	12.670	62087966	29108438	282.356	220.126
11)	m	Dinoseb	14.280	13.030	105.1E6	57424866	54.049	50.149

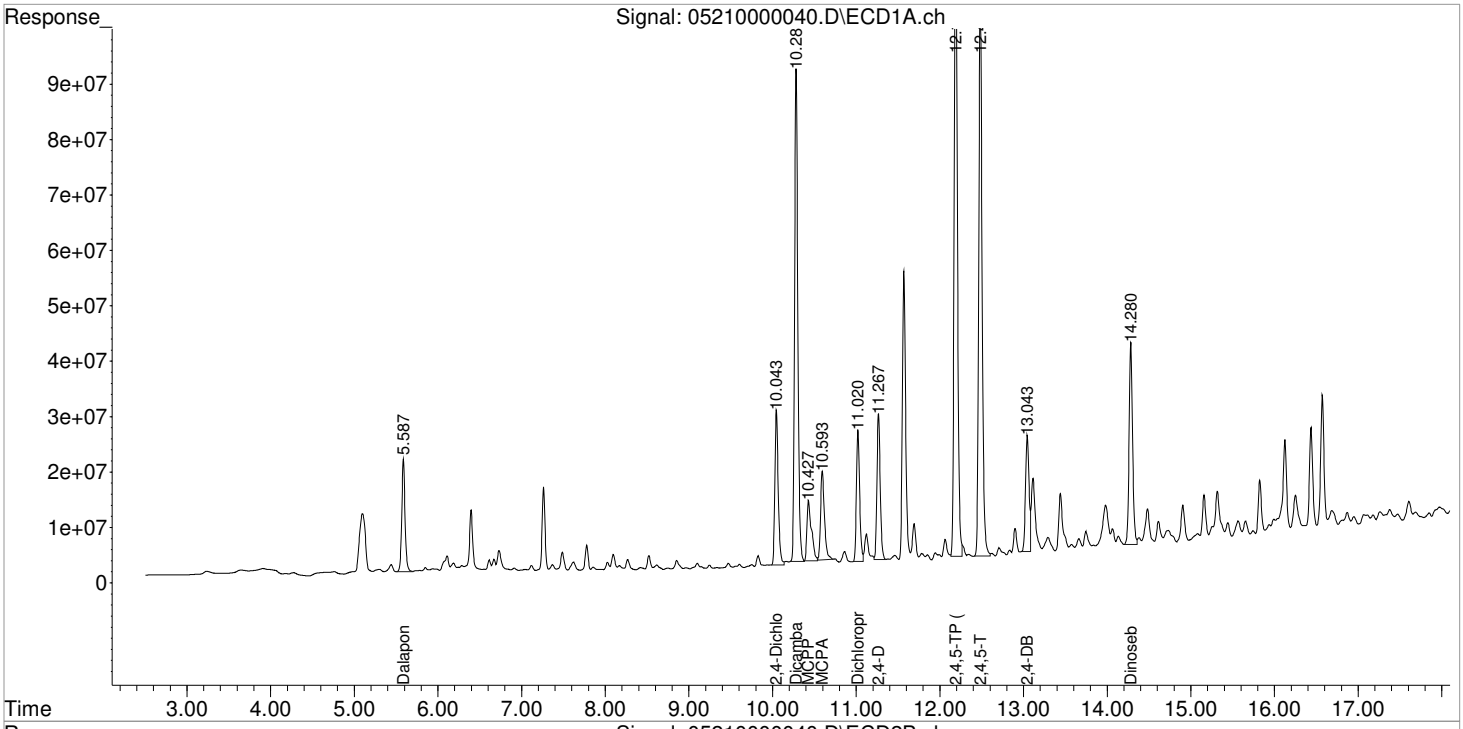
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

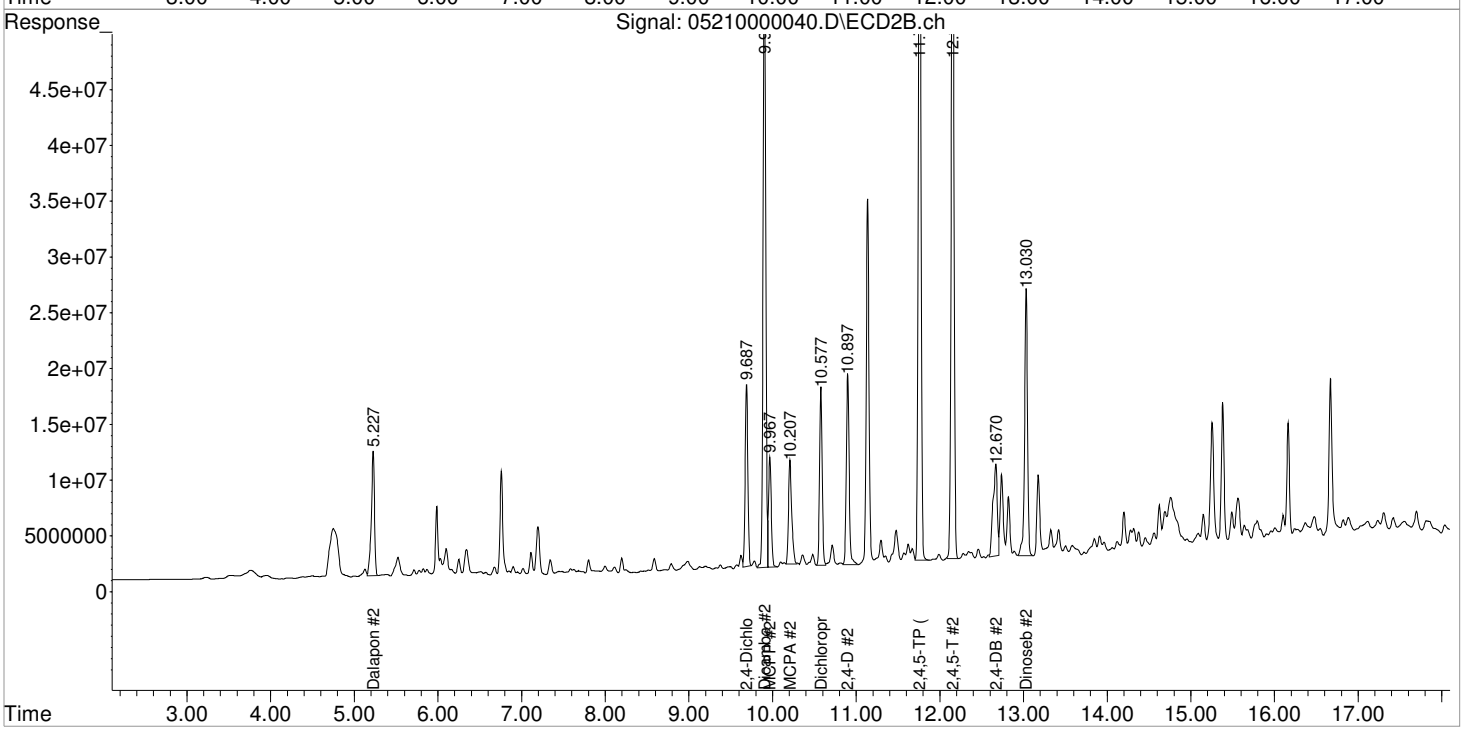
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000040.D Vial: 56
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:02:36 Operator: TAP
Sample : K2104778-003 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:29:47 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



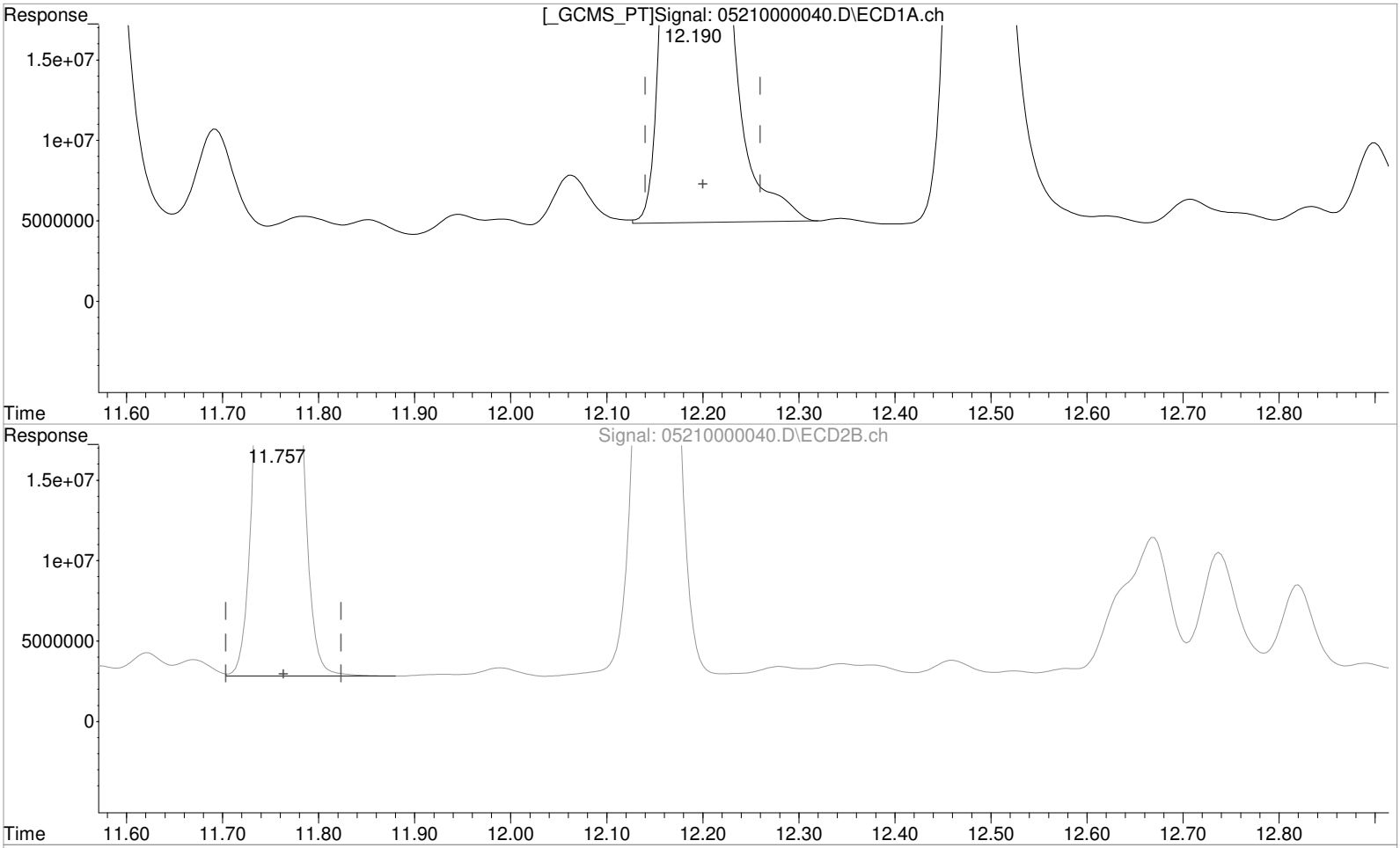


1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000040.D Vial: 56
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:02:36 Operator: TAP
Sample : K2104778-003 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:10 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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

(8) 2,4,5-TP (Silvex) (m)

12.190min 108.461 ppb

response 315962632

Manual Integration:

Before

05/22/21

(8) 2,4,5-TP (Silvex) #2 (m)

11.757min 96.102 ppb

response 161823578

(+) = Expected Retention Time

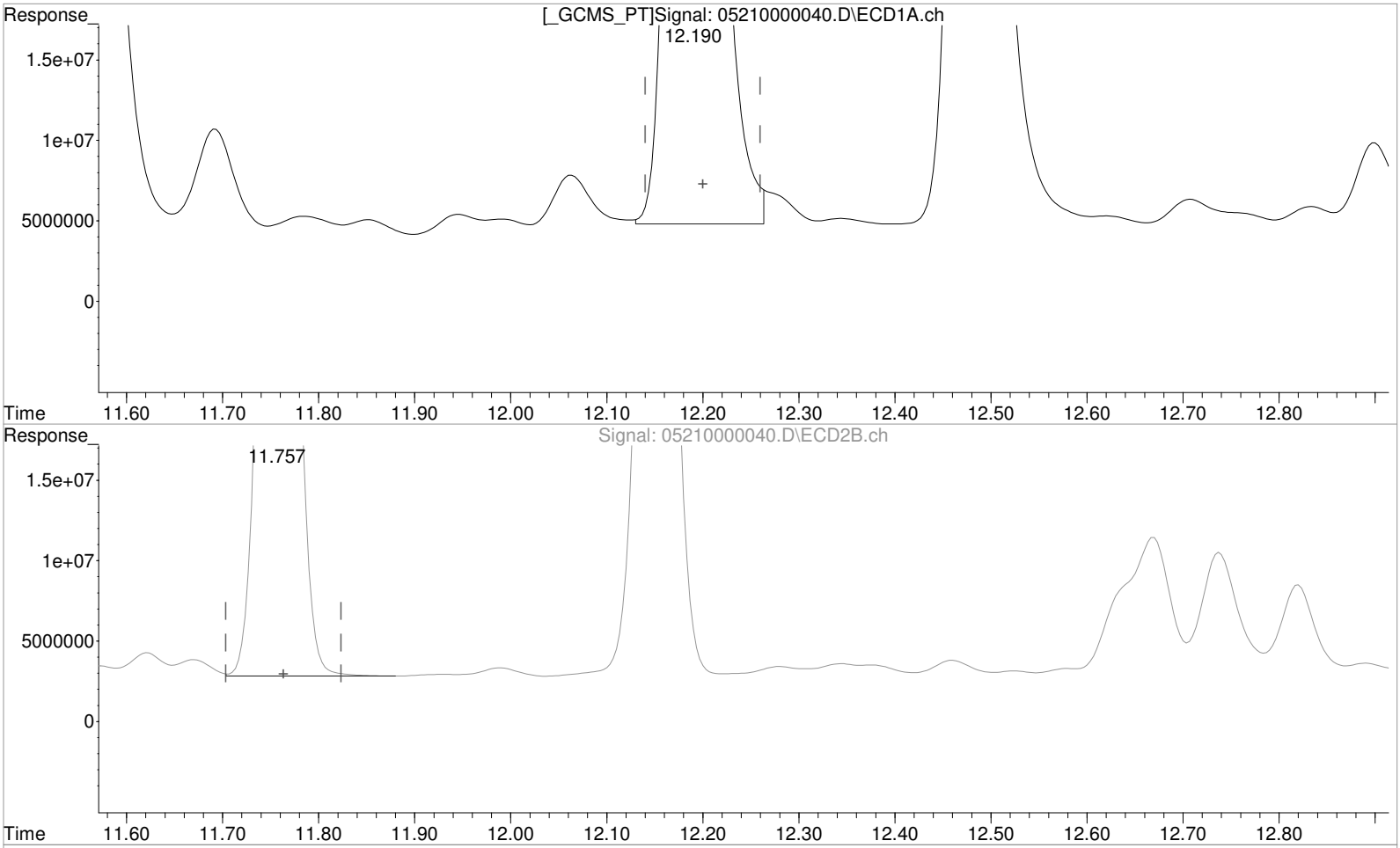
Quantitation Report (Qedit)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000040.D Vial: 56
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 03:02:36 Operator: TAP
Sample : K2104778-003 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:10 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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

(8) 2,4,5-TP (Silvex) (m)

12.190min 107.598 ppb m

response 313449007

Manual Integration:

After

Baseline/Shoulder

05/22/21

(8) 2,4,5-TP (Silvex) #2 (m)

11.757min 96.102 ppb

response 161823578

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000033.D\
Lab ID: KQ2109059-02
RunType: CCB
Matrix: Sediment

Date Acquired: 5/22/21 00:14:41
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000033.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 00:14:41	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2109059-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**		**Report Group:**	KQ2109059
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	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-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	7.7 U	Y

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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000033.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 00:14:41 Operator: TAP
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:07:09 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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	5.643f	5.173f	203243	156561	0.198	0.282 #
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	0.000	0	0	N.D. d	N.D.
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9)	m	2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10)	m	2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11)	m	Dinoseb	0.000	0.000	0	0	N.D.	N.D.

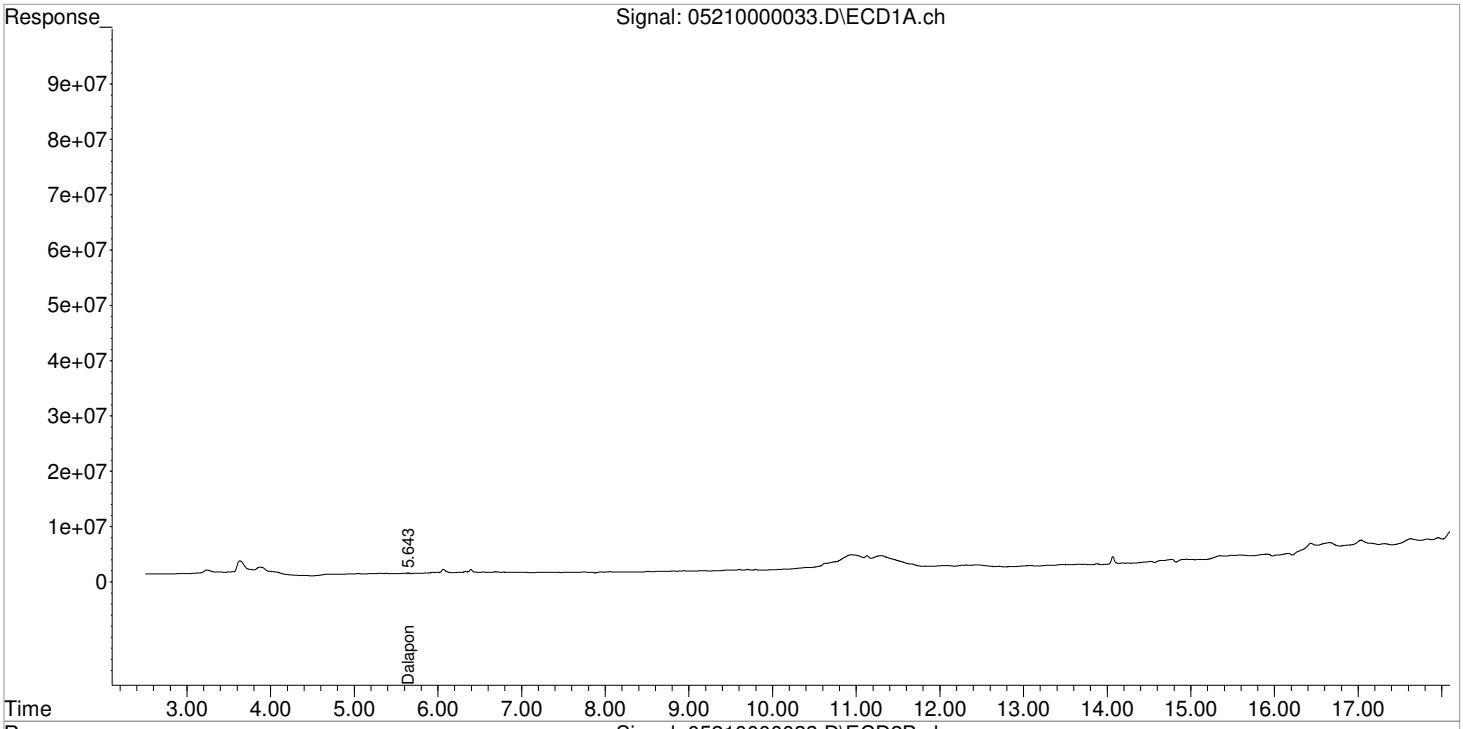
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

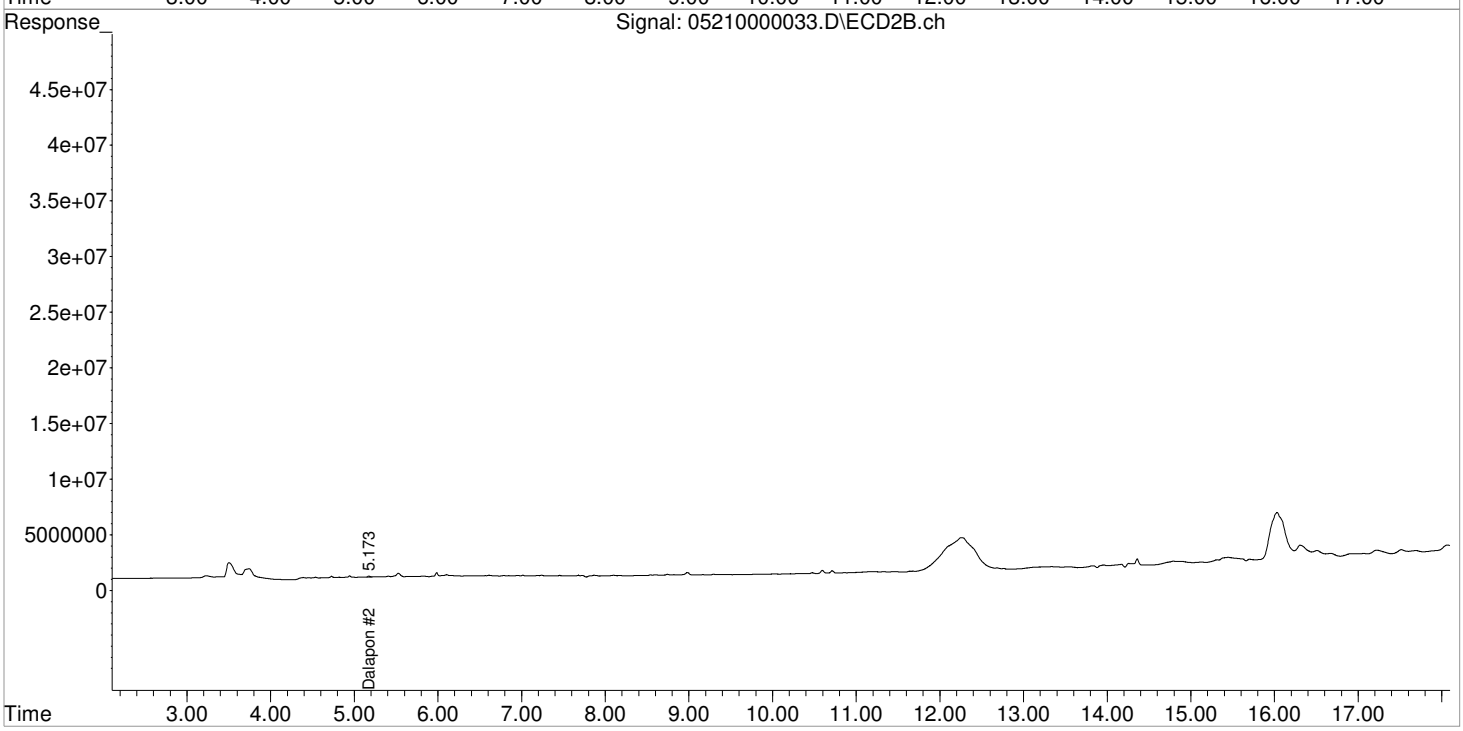
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000033.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 00:14:41 Operator: TAP
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:07:09 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000047.D\
Lab ID: KQ2109059-04
RunType: CCB
Matrix: Sediment

Date Acquired: 5/22/21 05:50:29
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000047.D\
Lab ID: KQ2109060-02
RunType: CCB
Matrix: Water

Date Acquired: 5/22/21 05:50:29
Batch ID: 724571
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000047.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 05:50:29	**Vial:**	4
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2109059-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**		**Report Group:**	KQ2109059
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	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-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	7.7 U	Y

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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000047.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 05:50:29	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2109060-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	5/11/21	**Receive Date:**	5/13/21

Analysis Lot:	724571	**Prep Lot:**		**Report Group:**	KQ2109060
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	0.00	0.00	0	0	0.000	0.000				17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	0.045 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	0.036 U	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000047.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 05:50:29 Operator: TAP
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:45:07 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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	5.643f	5.173f	126064	137201	0.123	0.247 #
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	0.000	0	0	N.D. d	N.D.
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9)	m	2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10)	m	2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11)	m	Dinoseb	0.000	0.000	0	0	N.D.	N.D.

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

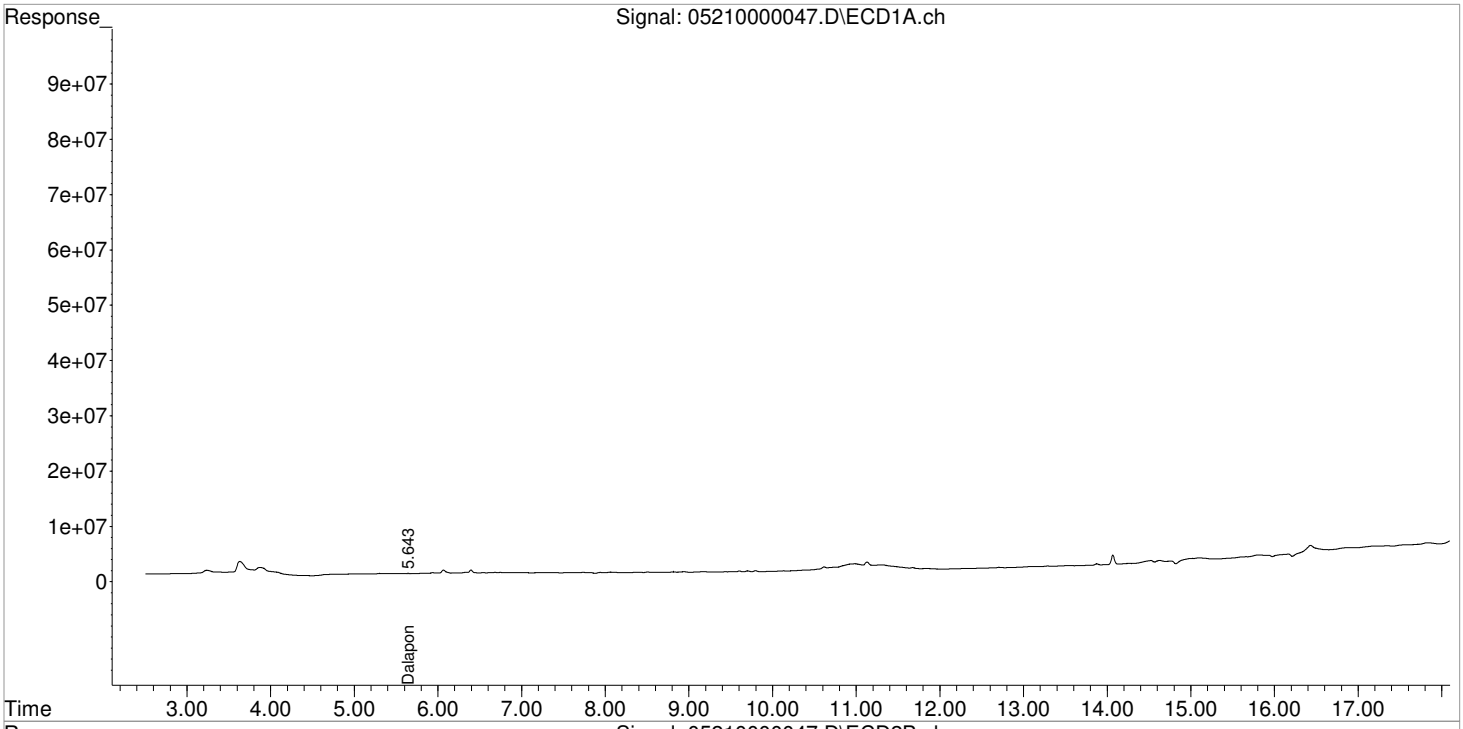
Quantitation Report (QT Reviewed)

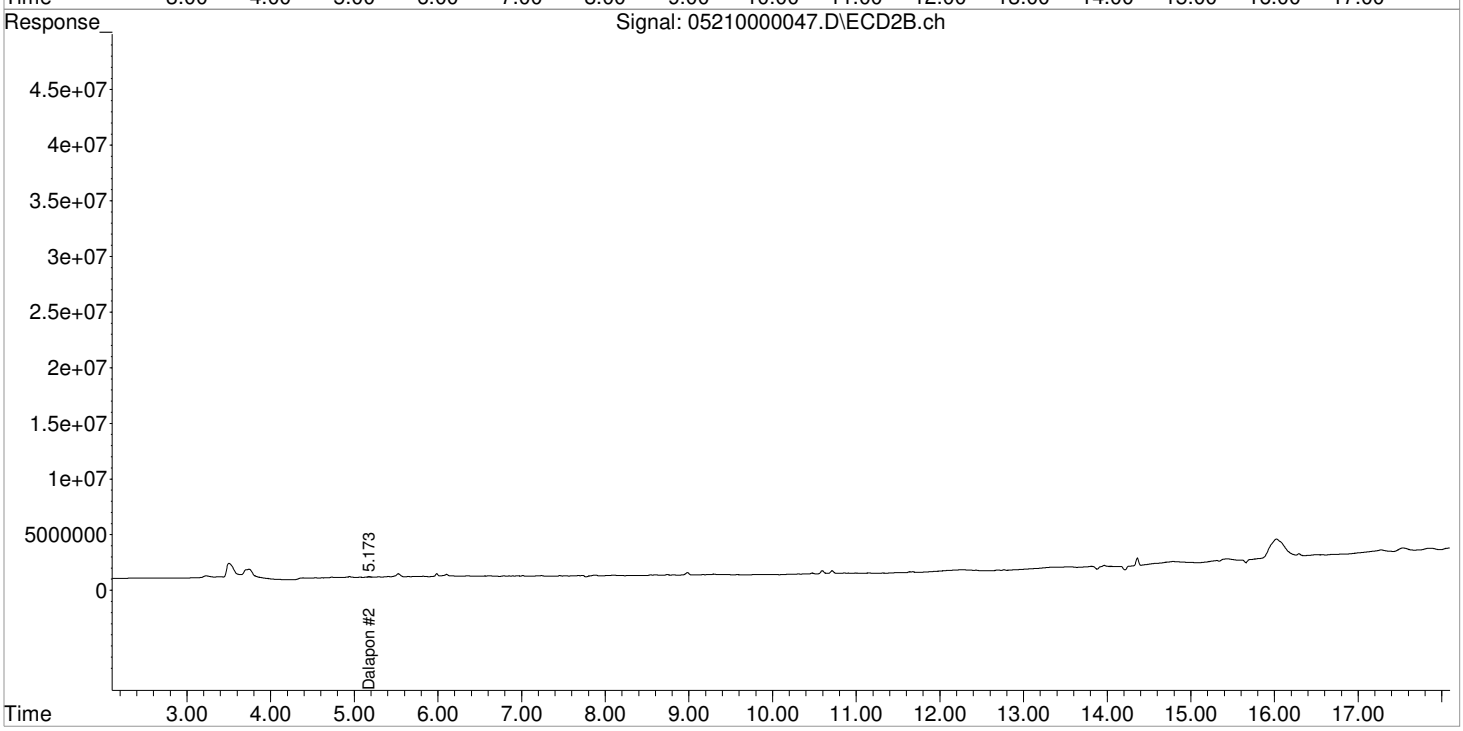
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000047.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 05:50:29 Operator: TAP
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:45:07 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000062.D\
Lab ID: KQ2109059-06
RunType: CCB
Matrix: Sediment

Date Acquired: 5/22/21 11:49:52
Batch ID: 724570
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

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Secondary Review: _____

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000062.D\
Lab ID: KQ2109060-04
RunType: CCB
Matrix: Water

Date Acquired: 5/22/21 11:49:52
Batch ID: 724571
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000062.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 11:49:52	**Vial:**	6
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2109059-06	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**		**Report Group:**	KQ2109059
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	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-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	7.7 U	Y

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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000062.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 11:49:52	**Vial:**	4
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2109060-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	5/11/21	**Receive Date:**	5/13/21

Analysis Lot:	724571	**Prep Lot:**		**Report Group:**	KQ2109060
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	0.00	0.00	0	0	0.000	0.000				17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	0.045 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	0.036 U	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000062.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 11:49:52 Operator: TAP
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 16:49:54 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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. 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	0.000	0	0	N.D. d	N.D.
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9)	m	2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10)	m	2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11)	m	Dinoseb	0.000	0.000	0	0	N.D.	N.D.

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

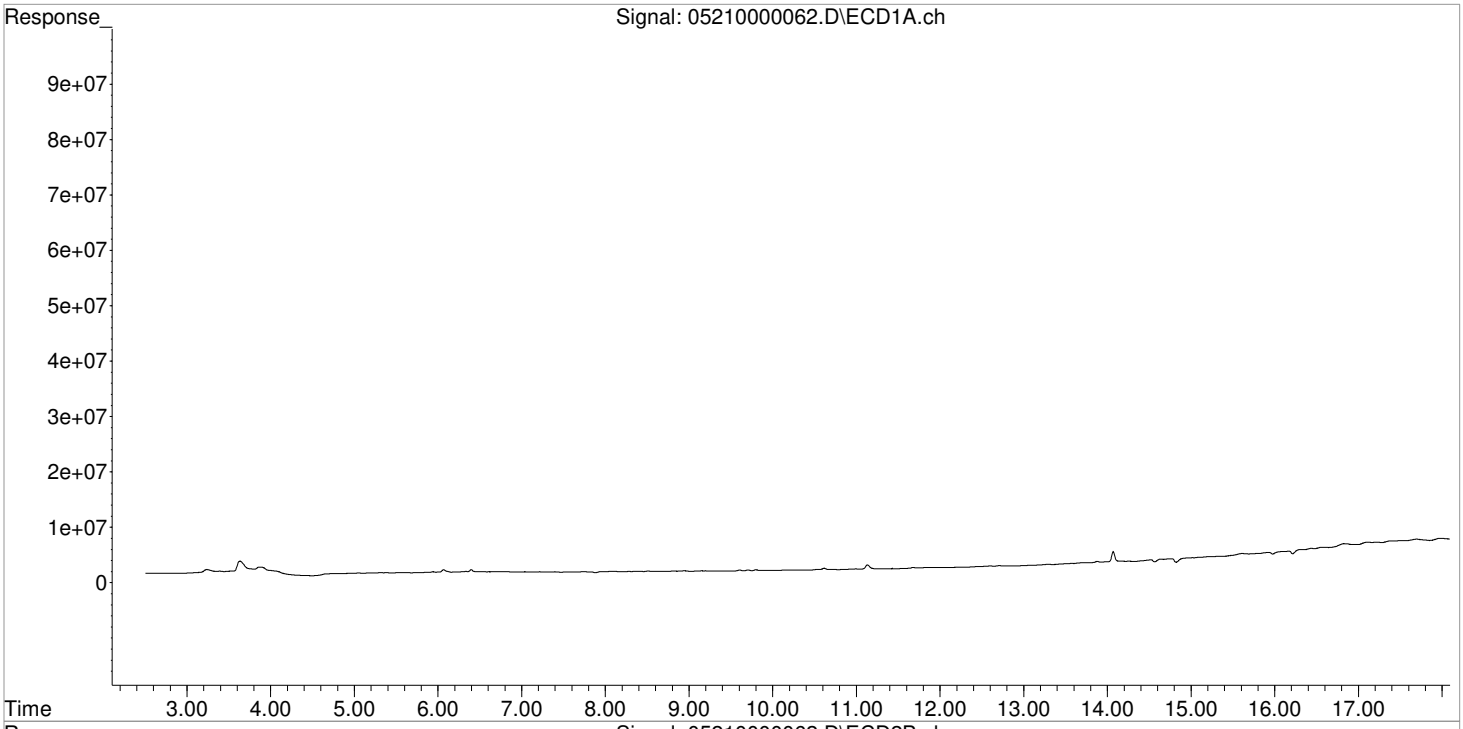
Quantitation Report (QT Reviewed)

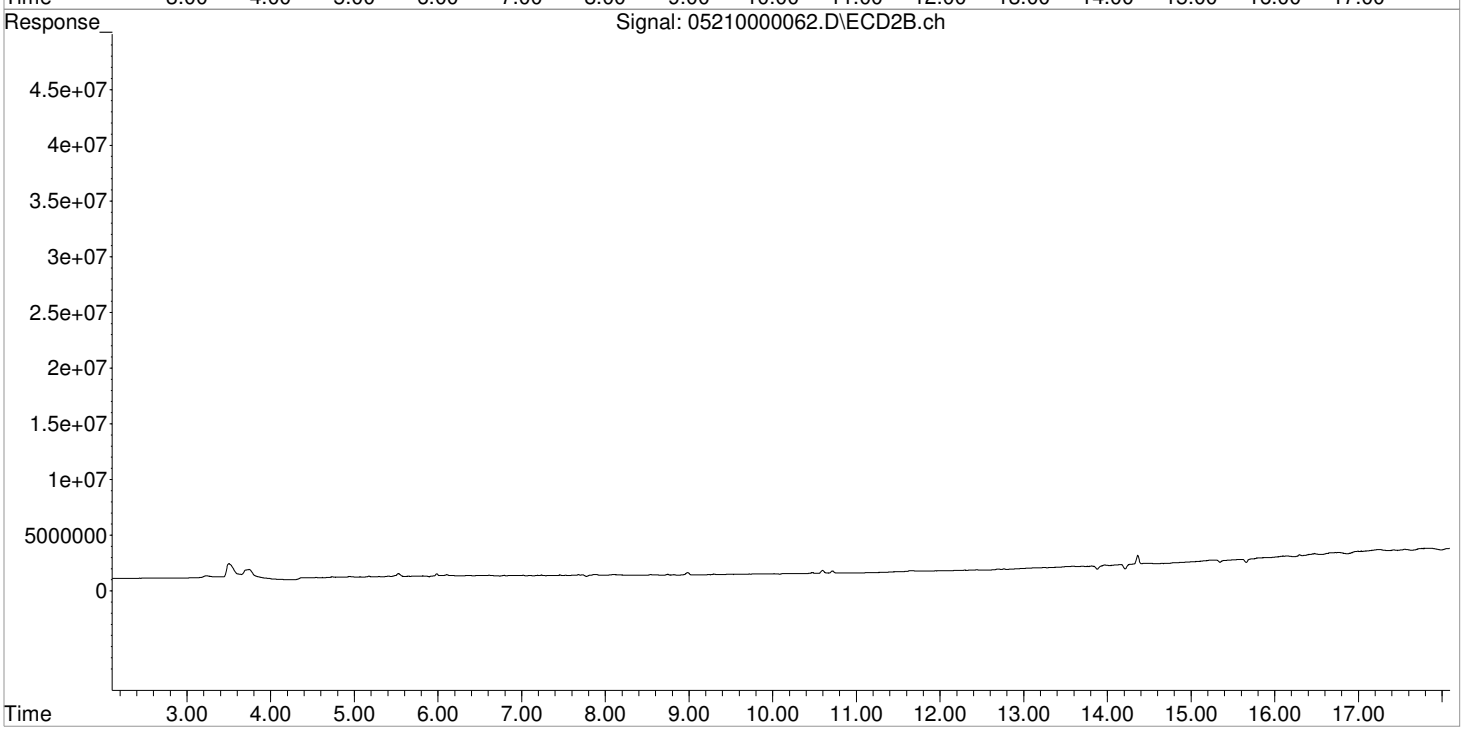
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000062.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 11:49:52 Operator: TAP
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 16:49:54 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000032.D\
Lab ID: KQ2109059-01
RunType: CCV
Matrix: Sediment

Date Acquired: 5/21/21 23:50:26
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000032.D\	**Instrument:**	K-GC-34
Acqu Date:	5/21/21 23:50:26	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2109059-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**		**Report Group:**	KQ2109059
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	Rpt?
2,4-Dichlorophenylacetic Acid	10.04	9.69	71533217	39936239	89.613	88.029			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 (Silvex)	12.19	11.76	320311122	162882164	109.954	96.730	110	96.7	Y
2,4-D	11.27	10.90	65493348	34257434	98.015	84.634	98.0	84.6	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 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000032.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-May-2021, 23:50:26 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:04:52 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	71533217	39936239	89.613m	88.029	
		Target Compounds							
1)	m	Dalapon	5.587	5.223	90668595	46417255	88.463	83.499	
3)	m	Dicamba	10.280	9.903	294.7E6	139.2E6	113.940m	94.730	
4)	m	MCPP	10.427	9.963	28605364	15934038	8575.600m	9174.881	
5)	m	MCPA	10.590	10.207	53826346	22133597	10970.711	7806.252	#
6)	m	Dichloroprop	11.020	10.577	72266295	41123811	101.812	99.183	
7)	m	2,4-D	11.267	10.897	65493348	34257434	98.015	84.634	
8)	m	2,4,5-TP ...	12.187	11.757	320.3E6	162.9E6	109.954	96.730	
9)	m	2,4,5-T	12.483	12.153	341.2E6	108.4E6	158.038	87.217	#
10)	m	2,4-DB	13.047	12.670	21596406	13398874	98.213	101.326	
11)	m	Dinoseb	14.280	13.030	189.0E6	96729824	97.216	84.474	

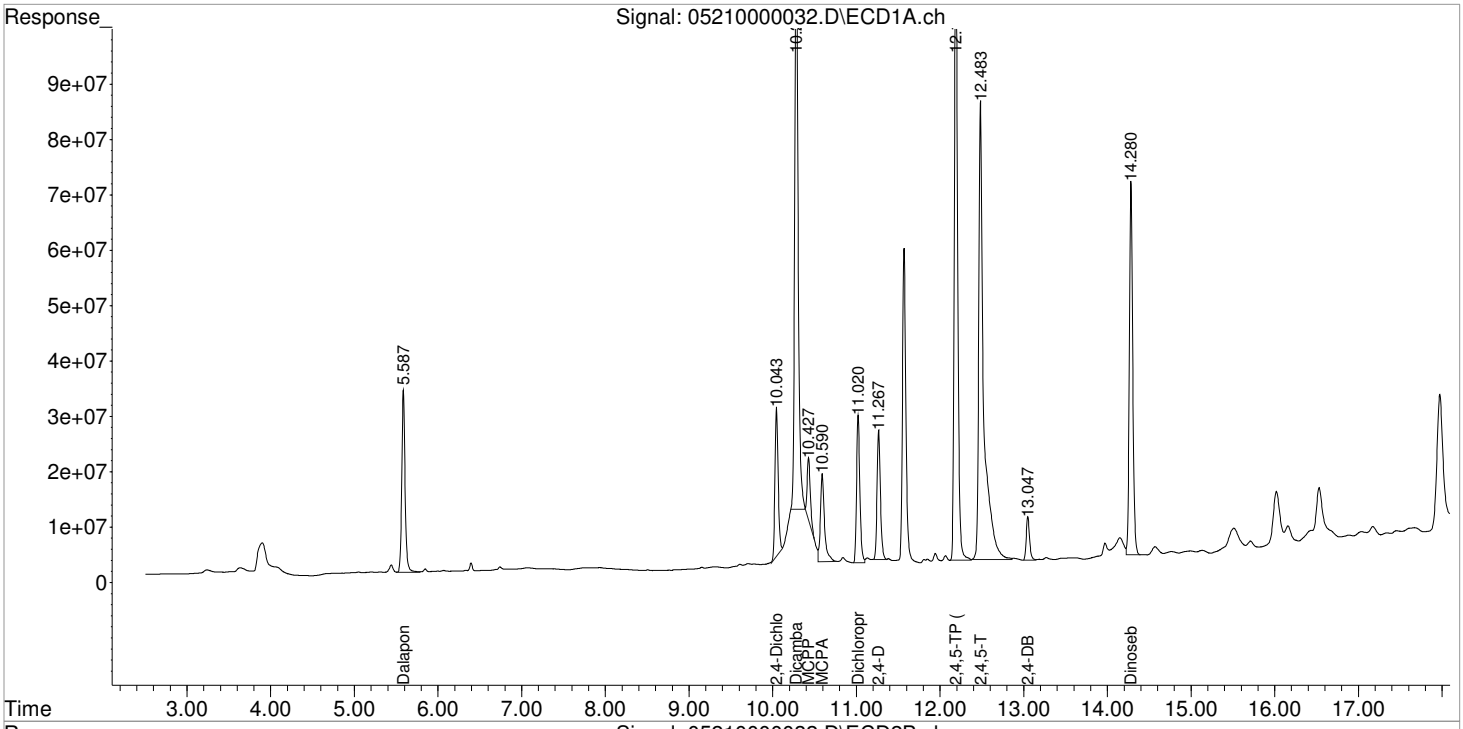
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

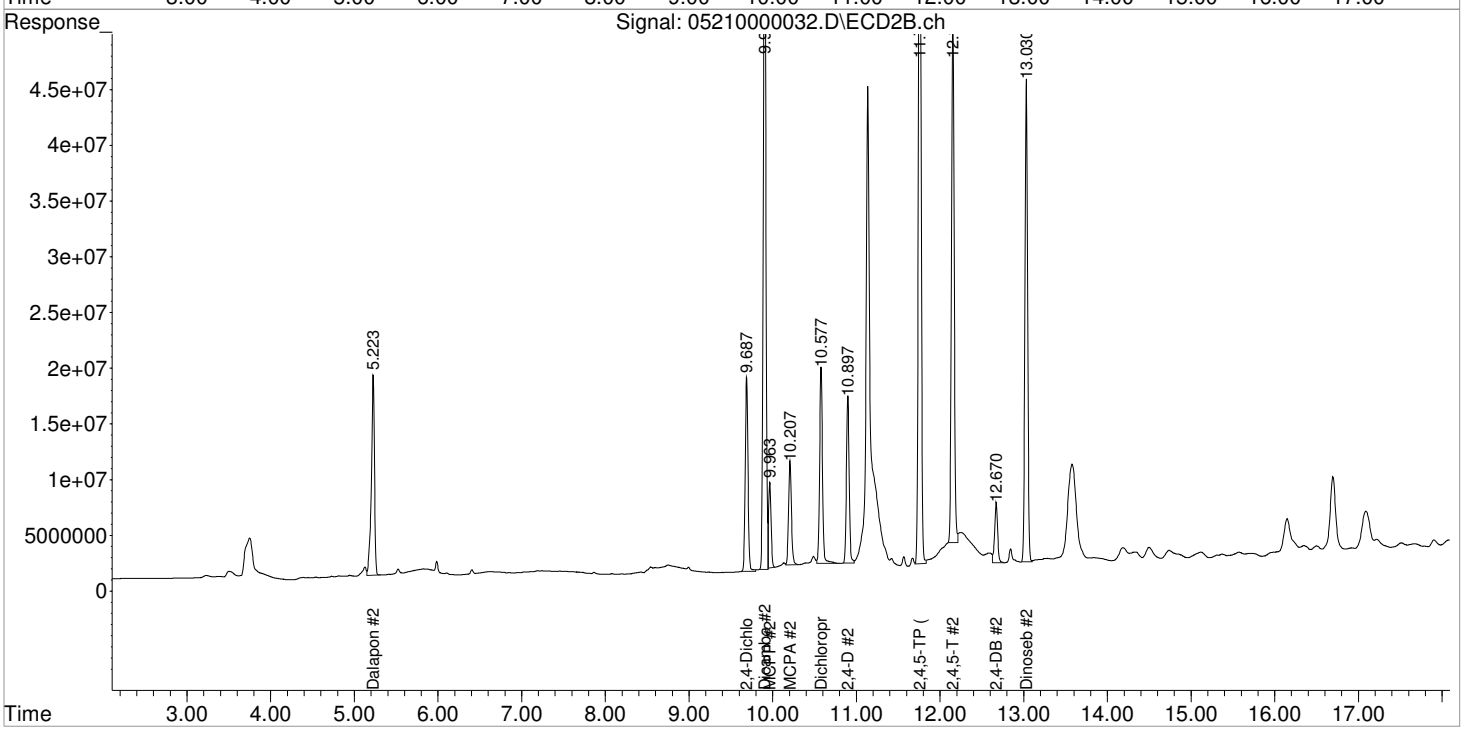
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000032.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-May-2021, 23:50:26 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 15:04:52 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



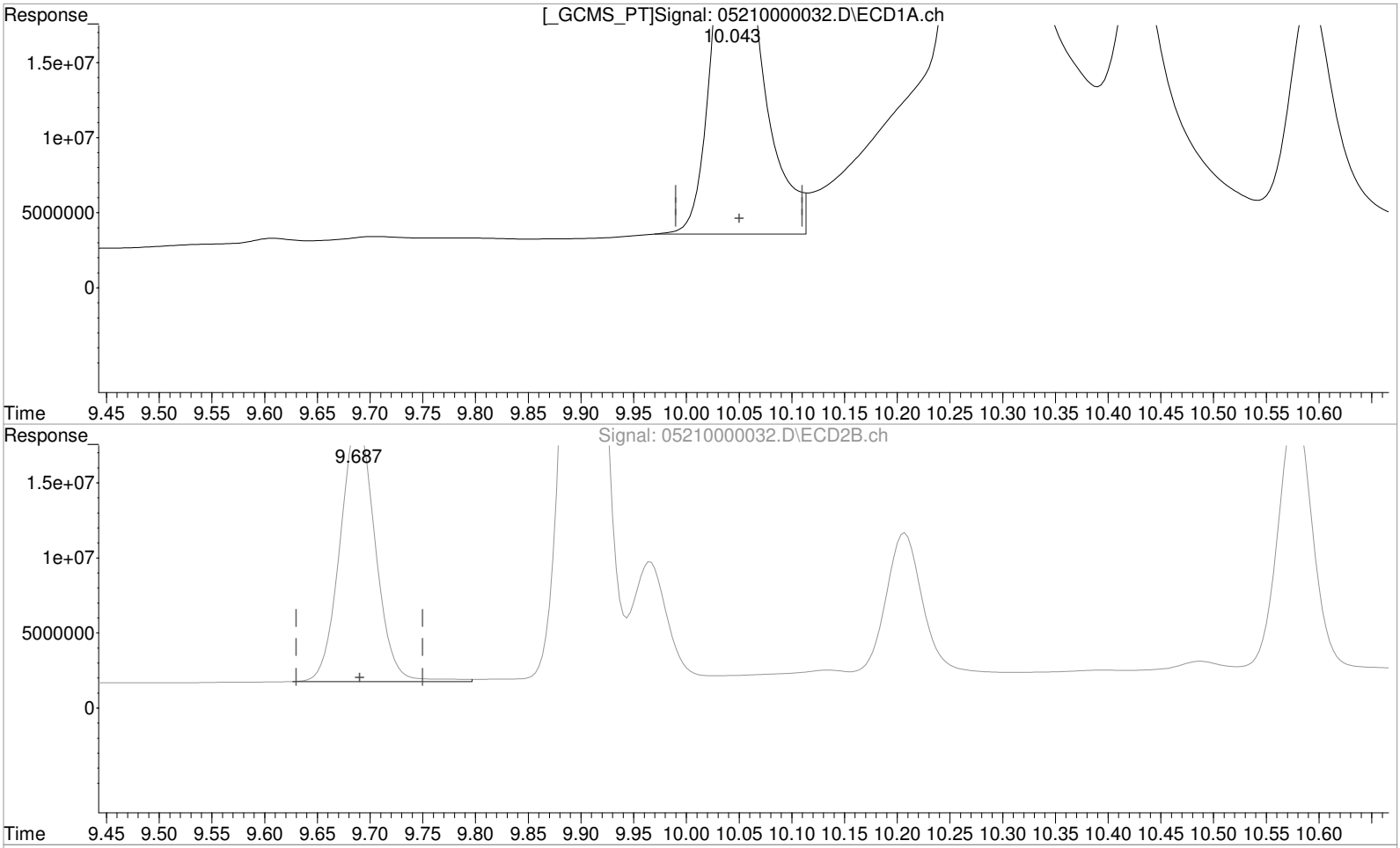


1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000032.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-May-2021, 23:50:26 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:58:46 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 101.780 ppb

response 81244978

Manual Integration:

Before

05/22/21

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

9.687min 88.029 ppb

response 39936239

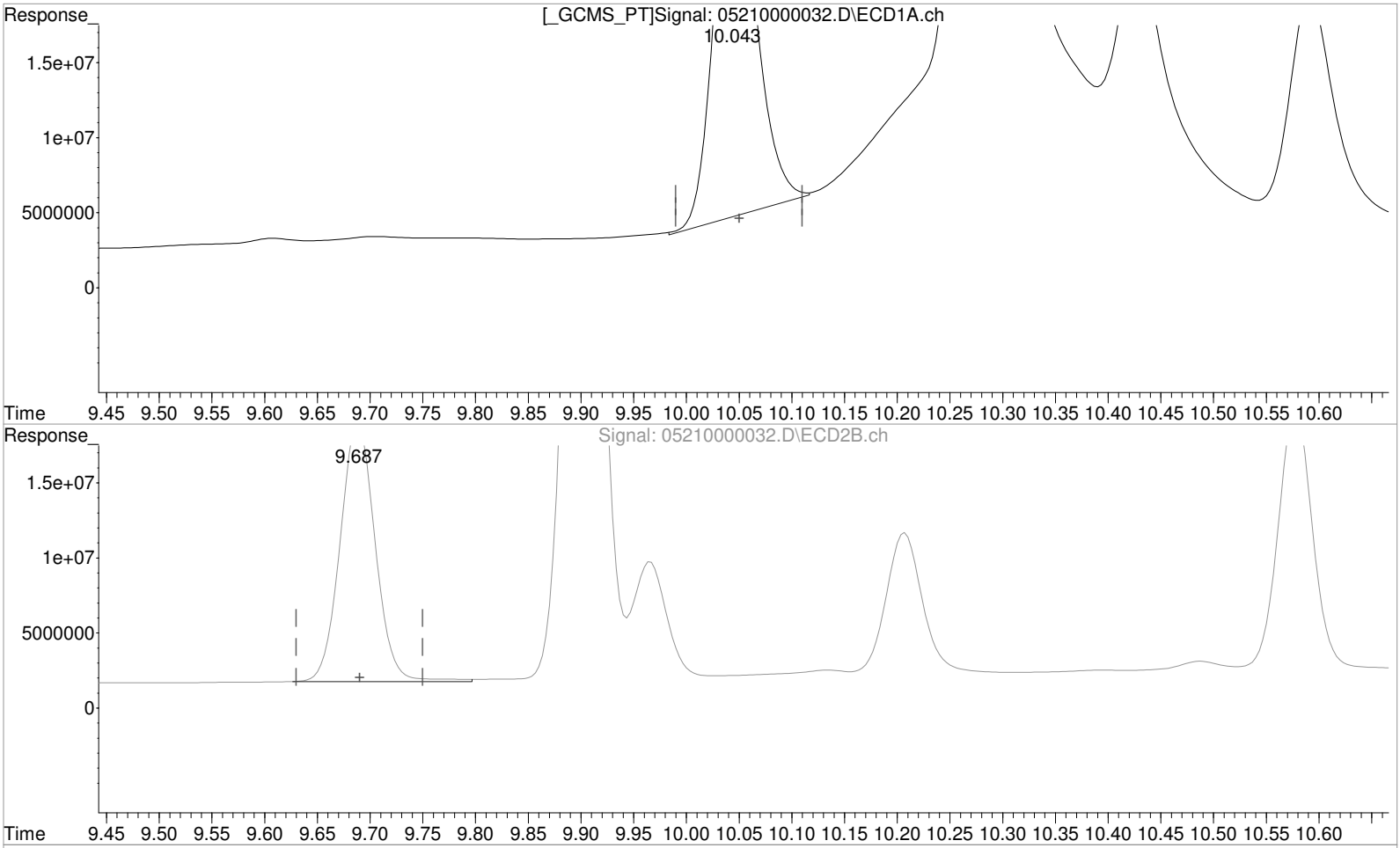
(+) = Expected Retention Time

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000032.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-May-2021, 23:50:26 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:58:46 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)

10.043min 89.613 ppb m

response 71533217

Manual Integration:

After

Baseline/Shoulder

05/22/21

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

9.687min 88.029 ppb

response 39936239

(+) = Expected Retention Time

1st TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000046.D\
Lab ID: KQ2109059-03
RunType: CCV
Matrix: Sediment

Date Acquired: 5/22/21 05:26:26
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000046.D\
Lab ID: KQ2109060-01
RunType: CCV
Matrix: Water

Date Acquired: 5/22/21 05:26:26
Batch ID: 724571
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: _____

Printed: 5/24/21 13:58
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Secondary Review: _____

1st TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000046.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 05:26:26	**Vial:**	3
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2109059-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**		**Report Group:**	KQ2109059
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	Rpt?
2,4-Dichlorophenylacetic Acid	10.04	9.69	75548813	37565454	94.644	82.803			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 (Silvex)	12.19	11.76	296227264	151626844	101.687	90.046	102	90.0	Y
2,4-D	11.26	10.90	64481680	33563150	96.501	82.918	96.5	82.9	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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000046.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 05:26:26	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2109060-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	5/11/21	**Receive Date:**	5/13/21

Analysis Lot:	724571	**Prep Lot:**		**Report Group:**	KQ2109060
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	Rpt?
2,4-Dichlorophenylacetic Acid	10.04	9.69	75548813	37565454	94.644	82.803			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 (Silvex)	12.19	11.76	296227264	151626844	101.687	90.046	102	90.0	Y
2,4-D	11.26	10.90	64481680	33563150	96.501	82.918	96.5	82.9	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000046.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 05:26:26 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:28 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	75548813	37565454	94.644	82.803
		Target Compounds						
1)	m	Dalapon	5.587	5.227	92919286	47851071	90.659	86.078
3)	m	Dicamba	10.280	9.903	254.8E6	131.4E6	98.534	89.443
4)	m	MCPP	10.427	9.963	33151343	15433601	10060.774	8863.196
5)	m	MCPA	10.590	10.207	49213799	22754758	9942.853	8050.154
6)	m	Dichloroprop	11.020	10.577	68819139	36498492	96.955	87.718
7)	m	2,4-D	11.263	10.897	64481680	33563150	96.501	82.918
8)	m	2,4,5-TP ...	12.187	11.757	296.2E6	151.6E6	101.687	90.046
9)	m	2,4,5-T	12.480	12.150	206.8E6	104.6E6	95.763	84.181
10)	m	2,4-DB	13.047	12.670	24650456	12012677	112.102	90.843
11)	m	Dinoseb	14.280	13.030	179.8E6	93130285	92.509	81.330

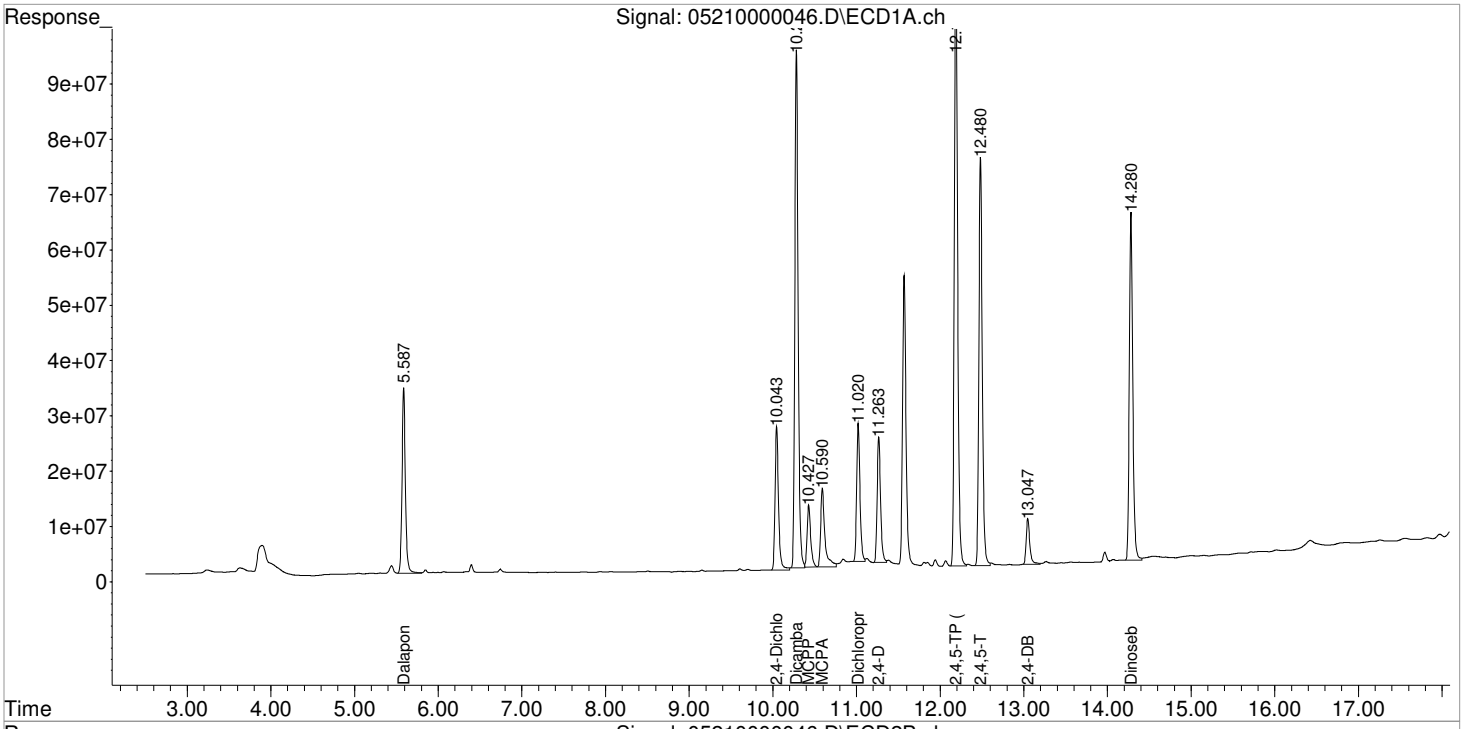
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

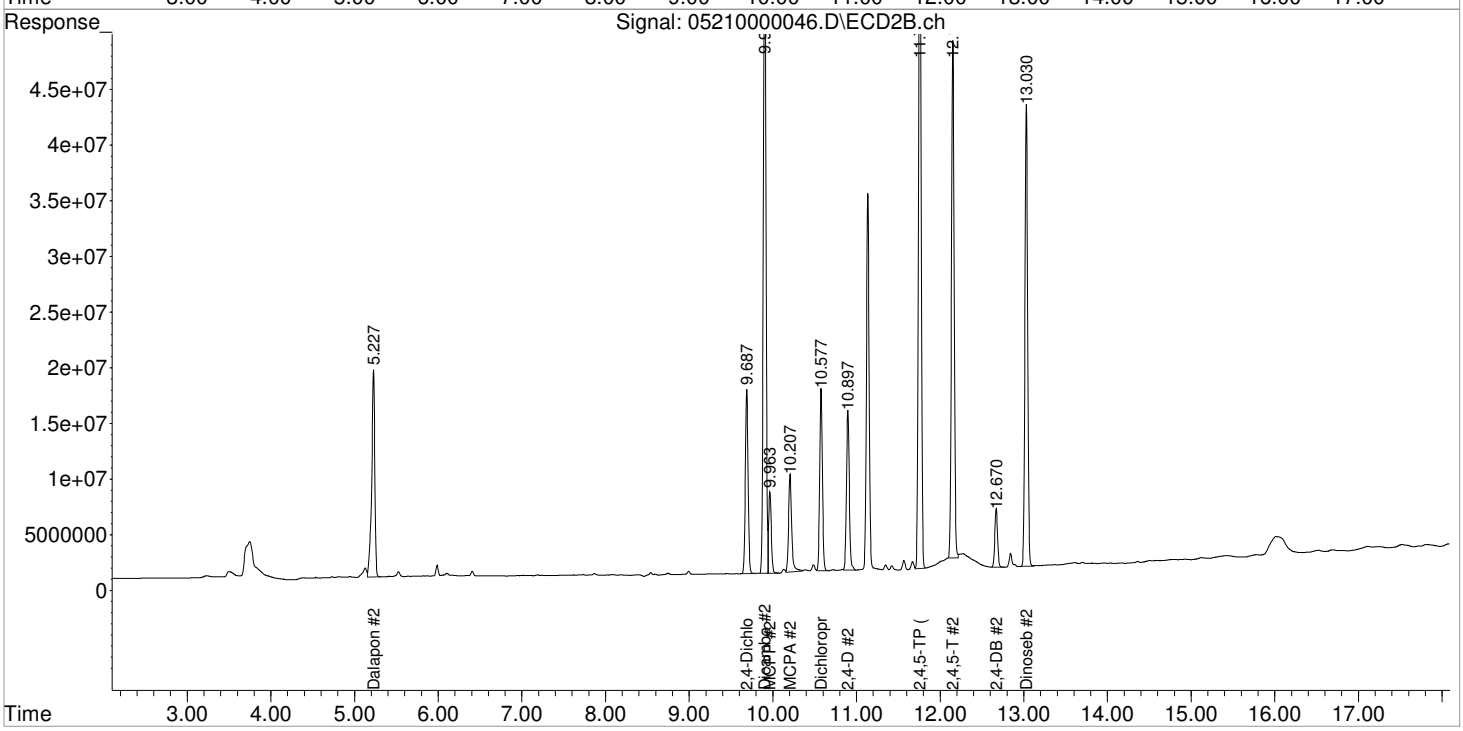
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000046.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 05:26:26 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 12:59:28 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000061.D\
Lab ID: KQ2109059-05
RunType: CCV
Matrix: Sediment

Date Acquired: 5/22/21 11:25:54
Batch ID: 724570
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 TP 05/24/21
2nd JW 05/24/21

Validation Report

Data File: J:\GC34\DATA\052121B-HB\05210000061.D\
Lab ID: KQ2109060-03
RunType: CCV
Matrix: Water

Date Acquired: 5/22/21 11:25:54
Batch ID: 724571
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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000061.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 11:25:54	**Vial:**	5
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2109059-05	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	4/29/21	**Receive Date:**	5/3/21

Analysis Lot:	724570	**Prep Lot:**		**Report Group:**	KQ2109059
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	Rpt?
2,4-Dichlorophenylacetic Acid	10.05	9.69	81688094	38759754	102.335	85.436			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 (Silvex)	12.19	11.76	311184865	155663227	106.821	92.443	107	92.4	Y
2,4-D	11.27	10.90	66497211	34460845	99.518	85.136	99.5	85.1	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 TP 05/24/21
2nd JW 05/24/21

Quantitation Report

Data File:	J:\GC34\DATA\052121B-HB\05210000061.D\	**Instrument:**	K-GC-34
Acqu Date:	5/22/21 11:25:54	**Vial:**	3
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2109060-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	5/11/21	**Receive Date:**	5/13/21

Analysis Lot:	724571	**Prep Lot:**		**Report Group:**	KQ2109060
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100249
		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	Rpt?
2,4-Dichlorophenylacetic Acid	10.05	9.69	81688094	38759754	102.335	85.436			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 (Silvex)	12.19	11.76	311184865	155663227	106.821	92.443	107	92.4	Y
2,4-D	11.27	10.90	66497211	34460845	99.518	85.136	99.5	85.1	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000061.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 11:25:54 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 13:00:13 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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...	10.047	9.690	81688094	38759754	102.335	85.436
		Target Compounds						
1)	m	Dalapon	5.587	5.227	92987419	47617617	90.726	85.658
3)	m	Dicamba	10.280	9.903	279.3E6	137.5E6	107.987	93.548
4)	m	MCPP	10.430	9.967	34780438	16159484	10593.001	9315.294
5)	m	MCPA	10.593	10.207	49720445	23031628	10055.754	8158.868
6)	m	Dichloroprop	11.020	10.577	75859979	38180811	106.875	91.888
7)	m	2,4-D	11.267	10.897	66497211	34460845	99.518	85.136
8)	m	2,4,5-TP ...	12.190	11.757	311.2E6	155.7E6	106.821	92.443
9)	m	2,4,5-T	12.483	12.153	205.9E6	101.8E6	95.349	81.934
10)	m	2,4-DB	13.047	12.670	23362547	10986501	106.245	83.083
11)	m	Dinoseb	14.280	13.030	188.5E6	94063967	96.983	82.145

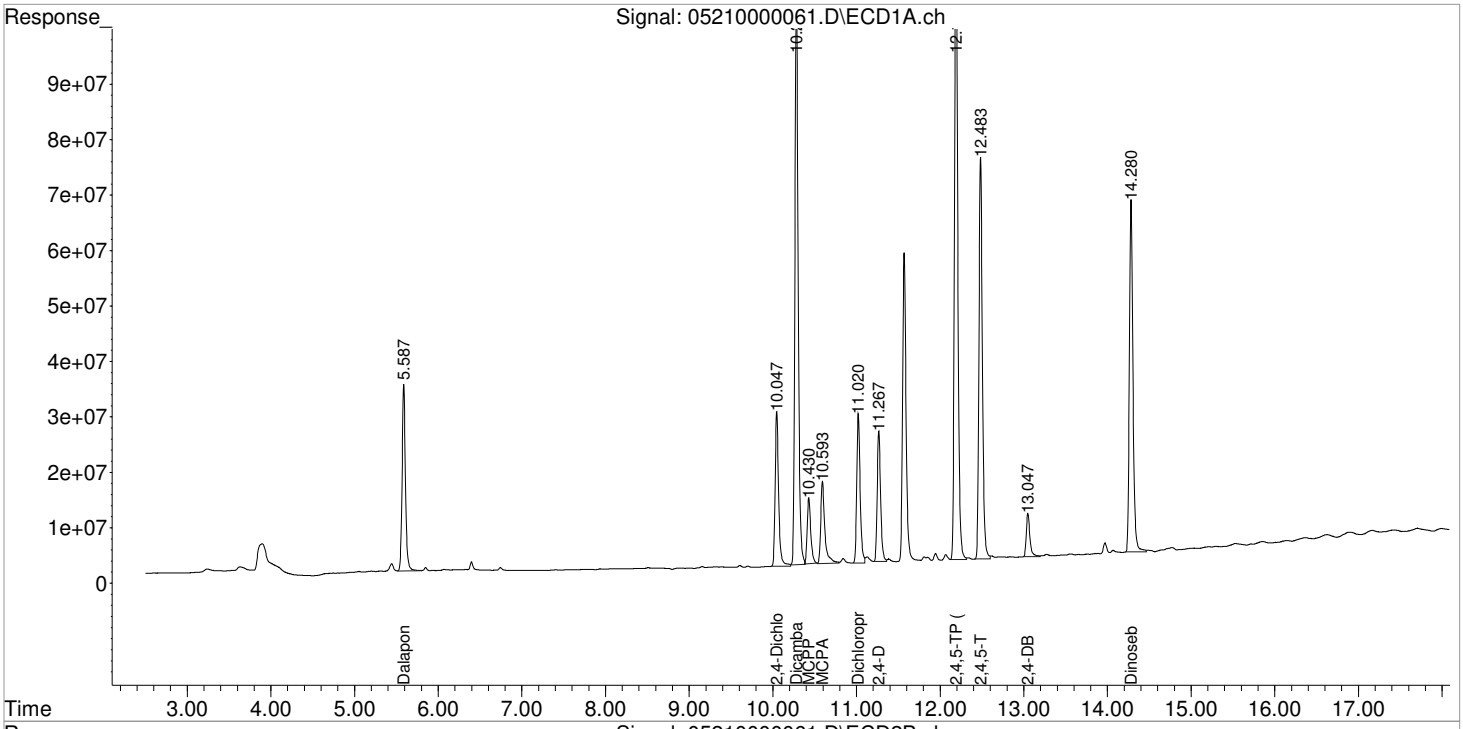
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

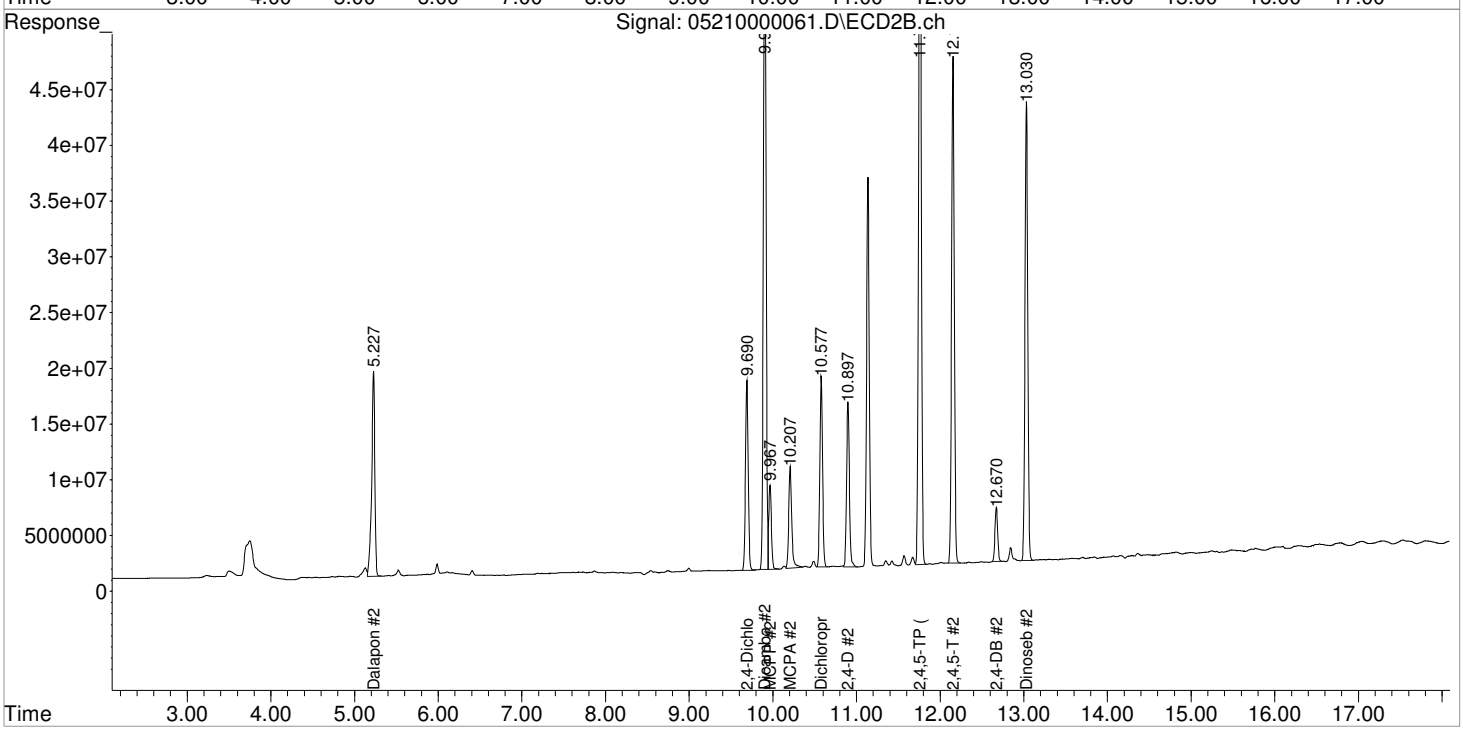
1st 05/22/21
2nd 05/24/21

Data File : J:\GC34\DATA\052121B-HB\05210000061.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-May-2021, 11:25:54 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 22 13:00:13 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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





Calibration ID: KC2100249

Sequence Table (Front Injector):

Line	Location	SampleName	Method Name	Num Inj	SampleType
1	Vial 100	HB PRIMER	8151A-17	1	Sample
2	Vial 100	HB PRIMER	8151A-17	1	Sample
3	Vial 1	IB	8151A-17	1	Sample
4	Vial 2	PENTA02-29H 10 PPB	8151A-17	1	Sample
5	Vial 3	PENTA02-29I 25 PPB	8151A-17	1	Sample
6	Vial 4	PENTA02-29J 75 PPB	8151A-17	1	Sample
7	Vial 5	PENTA02-29K 100 PPB	8151A-17	1	Sample
8	Vial 6	PENTA02-29L 125 PPB	8151A-17	1	Sample
9	Vial 7	PENTA02-29M 150 PPB	8151A-17	1	Sample
10	Vial 8	PENTA02-29N 175 PPB	8151A-17	1	Sample
11	Vial 9	PENTA02-30A 200 PPB	8151A-17	1	Sample
12	Vial 10	PENTA02-29G 100 PPB ICV	8151A-17	1	Sample
13	Vial 1	IB	8151A-17	1	Sample

Quantitation Report (QT Reviewed)

1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 11:08:09 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:53:00 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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	5.650f	5.177f	278218	95141	0.271	0.171	#
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	0.000	0	0	N.D.	N.D.	
6)	m	Dichloroprop	0.000	10.600	0	1502414	N.D.	0.973	#
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	
9)	m	2,4,5-T	0.000	0.000	0	0	N.D.	N.D.	
10)	m	2,4-DB	0.000	0.000	0	0	N.D.	N.D.	
11)	m	Dinoseb	0.000	0.000	0	0	N.D.	N.D.	

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

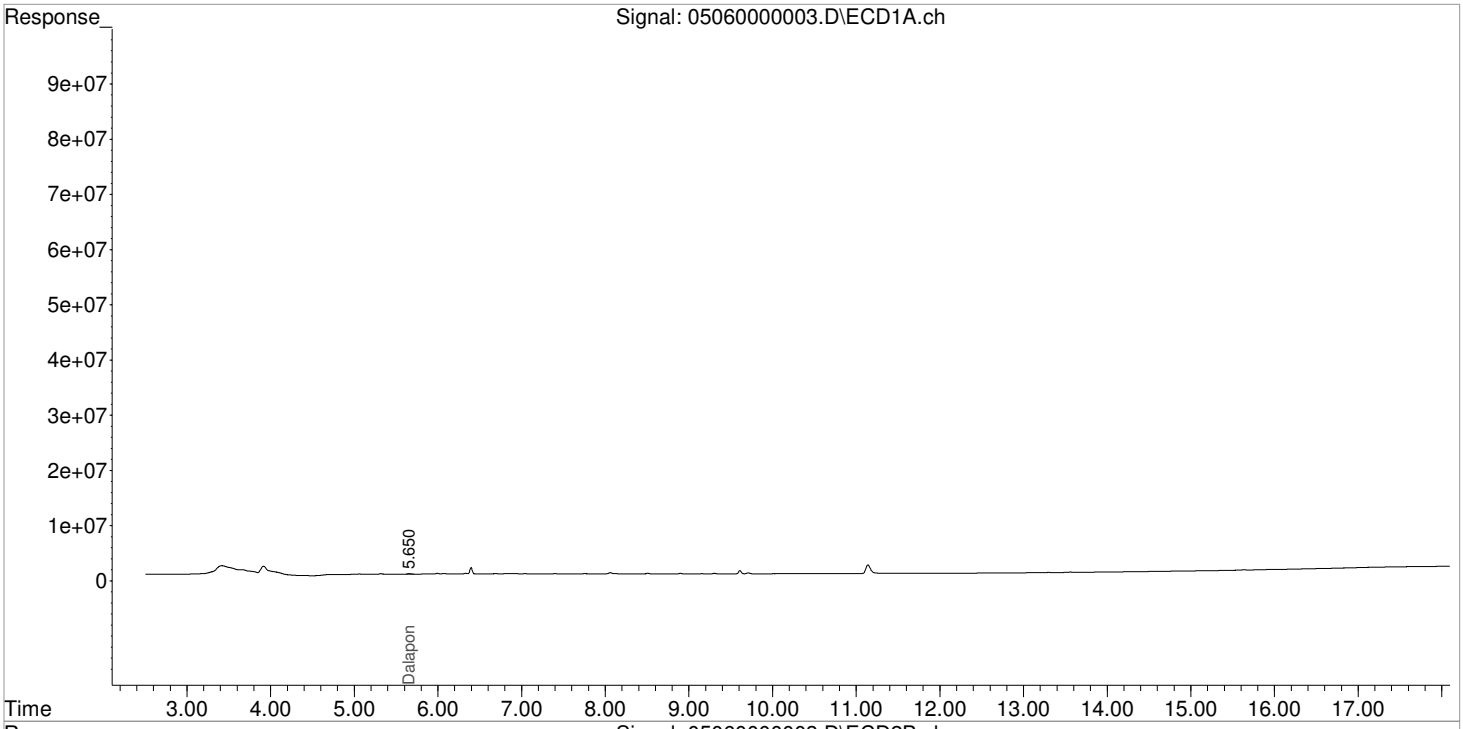
Quantitation Report (QT Reviewed)

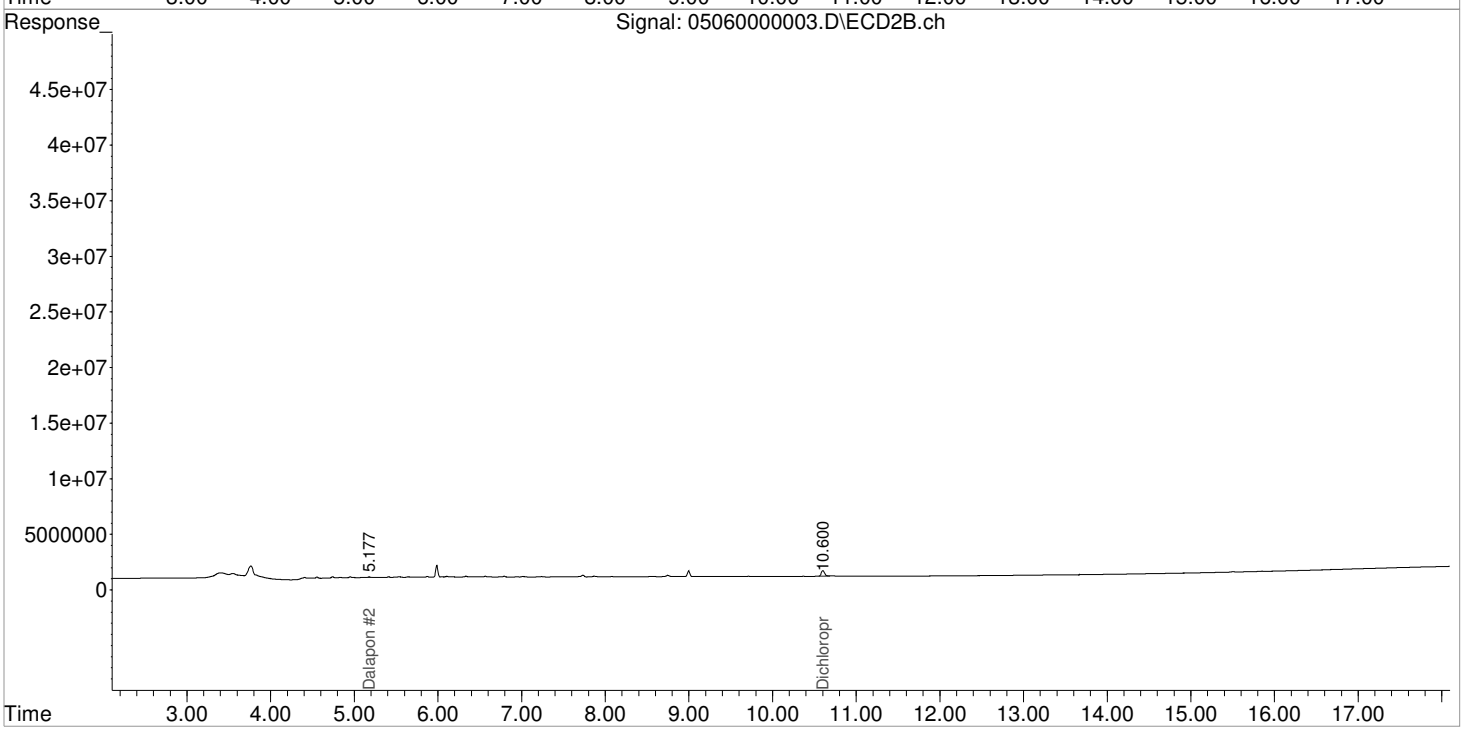
1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 11:08:09 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:53:00 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 11:32:20 Operator: JTC
Sample : PENTA02-29H 10 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:25 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 13:18:05 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...	10.053	9.697	7346212	4609674	9.104	10.869	
		Target Compounds							
1)	m	Dalapon	5.597	5.237	10092232	5965081	10.523	11.756	
3)	m	Dicamba	10.290	9.910	21119770	13316308	8.225	9.811	
4)	m	MCPP	10.437	9.973	4802139	2315537	680.332	900.307	#
5)	m	MCPA	10.603	10.213	7821465	4008211	844.876	765.726	
6)	m	Dichloroprop	11.030	10.587	6781972	5431372	9.388	10.005	
7)	m	2,4-D	11.277	10.907	5557251	3692787	7.756	9.461	
8)	m	2,4,5-TP ...	12.200	11.767	22470601	14335364	7.326	9.049	
9)	m	2,4,5-T	12.497	12.163	14959153	9702270	5.979	7.681	#
10)	m	2,4-DB	13.063	12.683	1812178	1128367	5.391	6.571	
11)	m	Dinoseb	14.297	13.040	18023759	11604338	8.893	10.826	

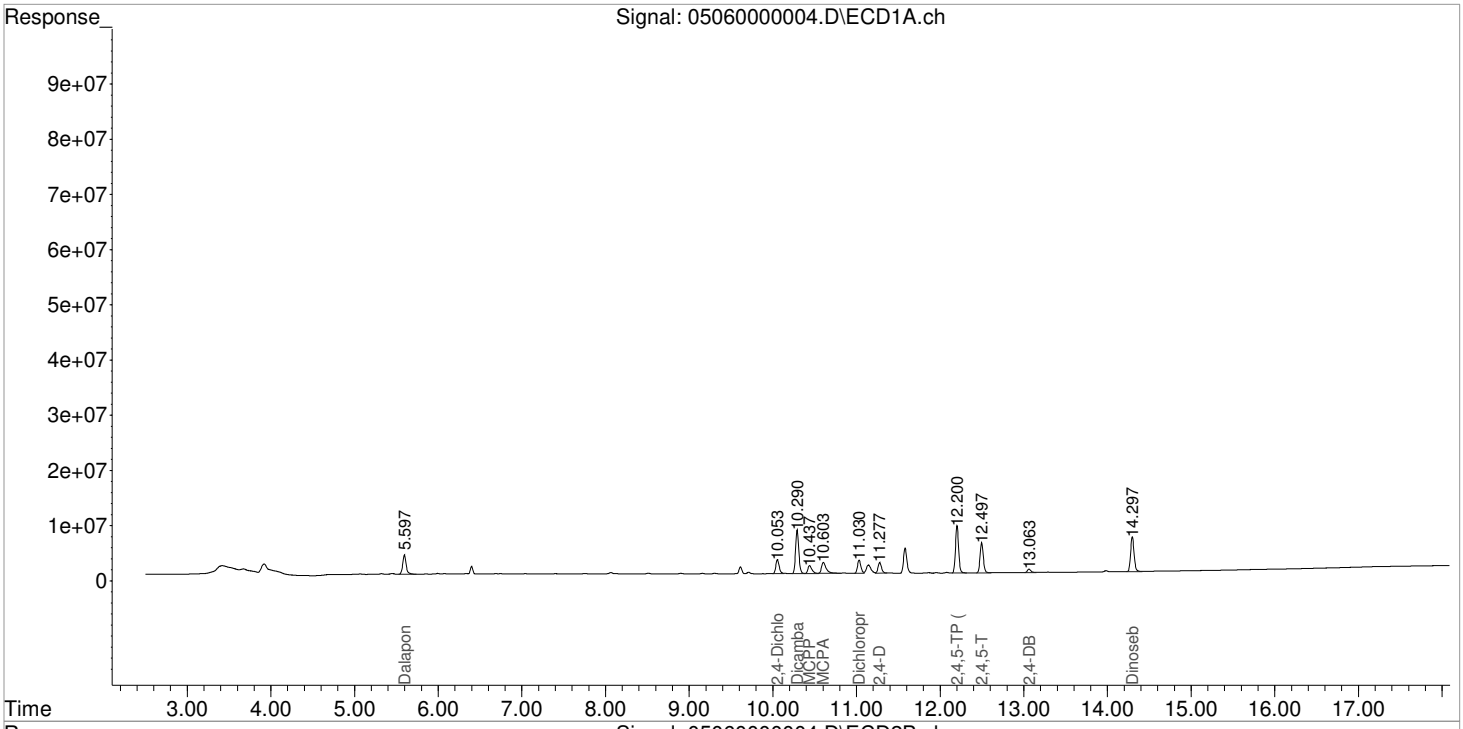
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

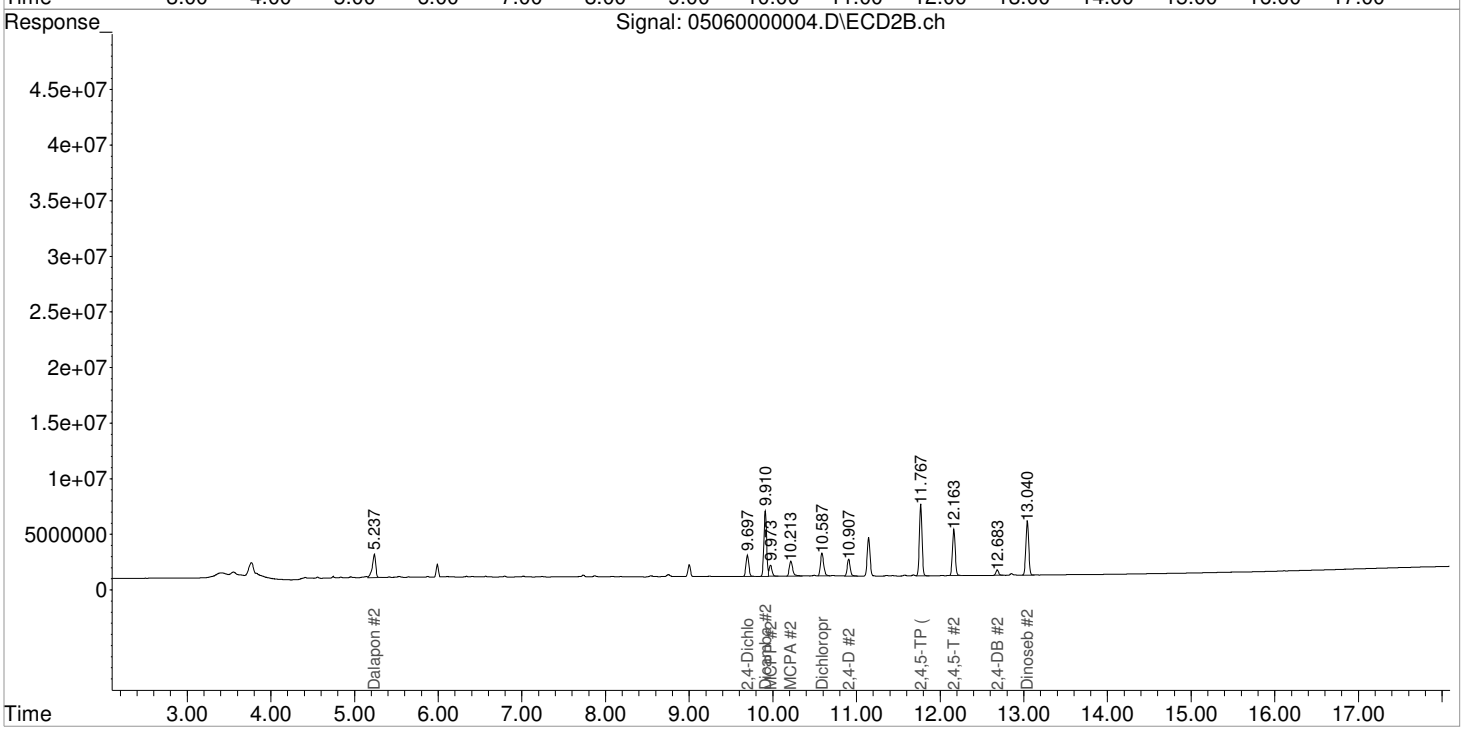
1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 11:32:20 Operator: JTC
Sample : PENTA02-29H 10 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:25 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 13:18:05 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 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 11:56:24 Operator: JTC
Sample : PENTA02-29I 25 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:27 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.047	9.690	19017345	11264046	23.568	26.559
		Target Compounds						
1)	m	Dalapon	5.590	5.230	25290160	14284873	26.370	28.152
3)	m	Dicamba	10.283	9.903	59600720	35157935	23.213	25.903
4)	m	MCPP	10.433	9.967	10110364	5245236	2442.005	2810.819
5)	m	MCPA	10.597	10.210	16042531	8740132	2396.774	2746.297
6)	m	Dichloroprop	11.027	10.580	17283481	11337536	23.925	25.877
7)	m	2,4-D	11.270	10.900	14756495	9741772	20.595	24.958
8)	m	2,4,5-TP ...	12.197	11.763	66389729	39784898	21.646	25.114
9)	m	2,4,5-T	12.490	12.157	46310217	27795095	18.509	22.005
10)	m	2,4-DB	13.057	12.677	5018867	3091651	14.930	18.004
11)	m	Dinoseb	14.290	13.037	47205668	28921236	23.292	26.982

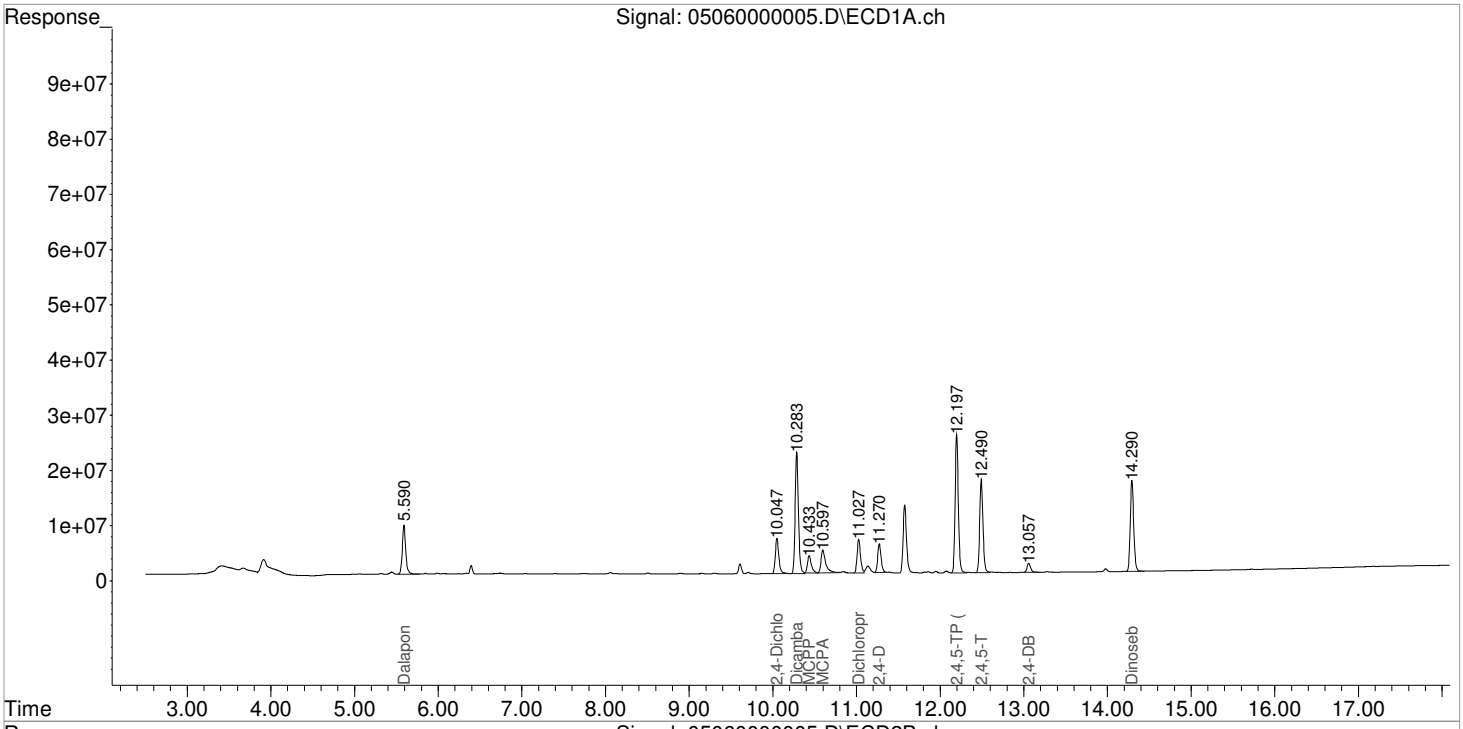
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

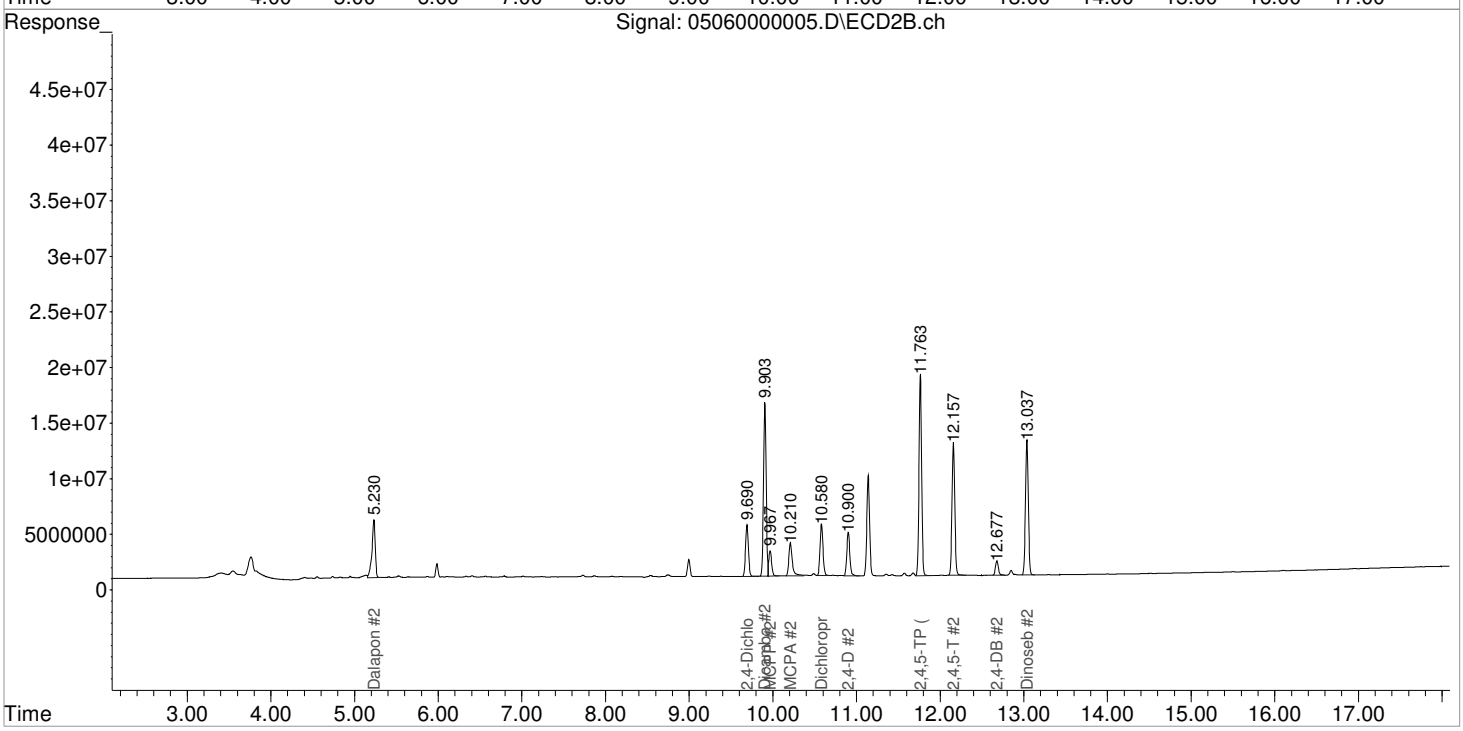
1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 11:56:24 Operator: JTC
Sample : PENTA02-29I 25 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:27 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 12:20:23 Operator: JTC
Sample : PENTA02-29J 75 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:31 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.047	9.690	51766264	29199264	64.154	68.847
		Target Compounds						
1)	m	Dalapon	5.590	5.230	67713602	36567575	70.606	72.067
3)	m	Dicamba	10.283	9.903	177.5E6	99633861	69.136	73.407
4)	m	MCPP	10.433	9.967	23705007	12689996	6953.744	7665.689
5)	m	MCPA	10.597	10.210	36024433	20117838	6364.316	7508.497
6)	m	Dichloroprop	11.027	10.580	48762263	28630160	67.501	72.347
7)	m	2,4-D	11.270	10.900	45466152	27028500	63.456	69.246
8)	m	2,4,5-TP ...	12.197	11.763	200.7E6	115.3E6	65.450	72.776
9)	m	2,4,5-T	12.490	12.157	146.8E6	83779943	58.657	66.327
10)	m	2,4-DB	13.057	12.677	14711944	8920297	43.765	51.946
11)	m	Dinoseb	14.290	13.037	131.6E6	77023868	64.947	71.858

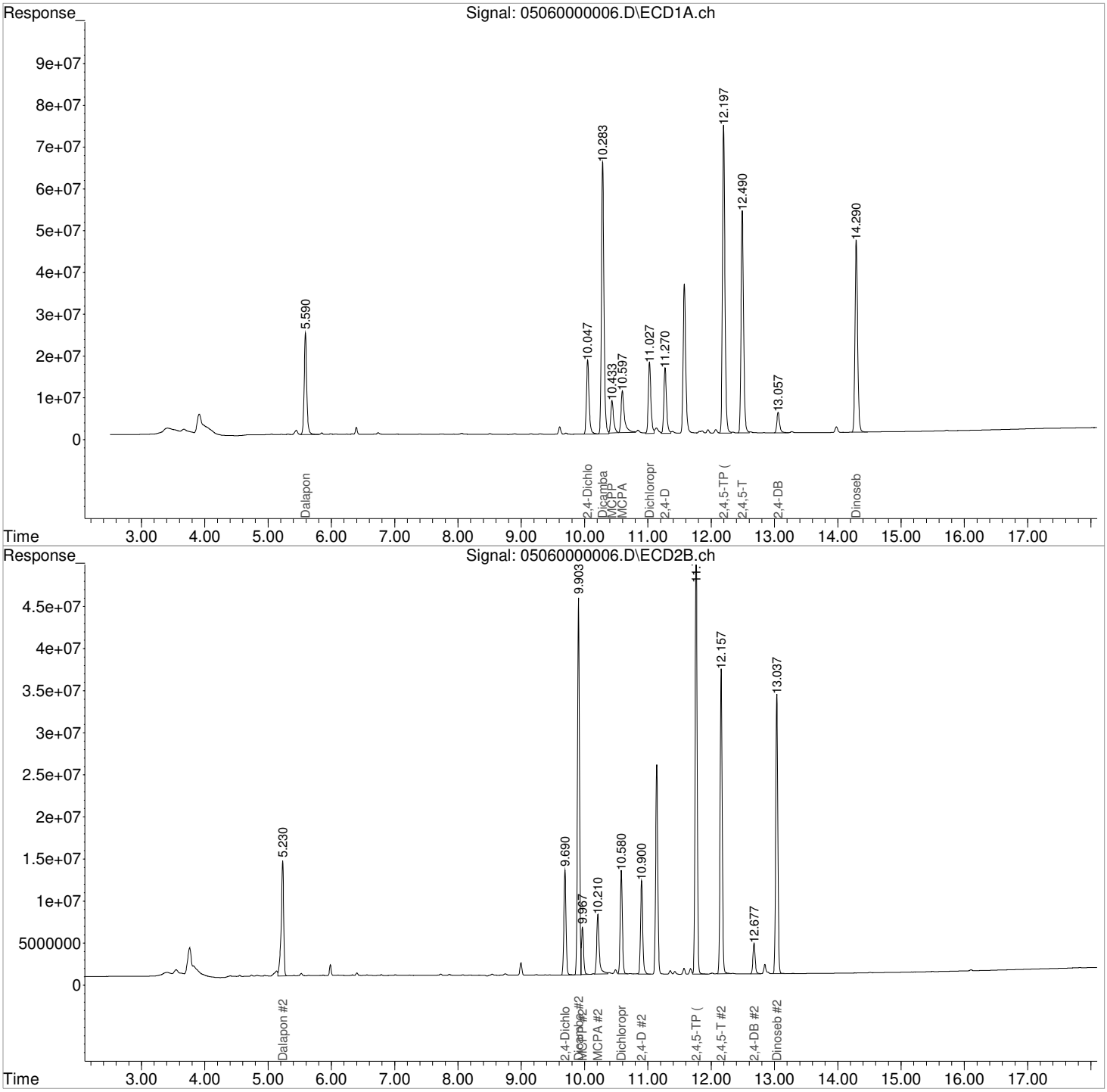
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 12:20:23 Operator: JTC
Sample : PENTA02-29J 75 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:31 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 12:44:18 Operator: JTC
Sample : PENTA02-29K 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:33 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.050	9.690	70349854	39203228	87.185	92.435
		Target Compounds						
1)	m	Dalapon	5.590	5.230	91568936	48876216	95.480	96.324
3)	m	Dicamba	10.287	9.903	243.6E6	136.5E6	94.862	100.558
4)	m	MCPP	10.433	9.967	31164571	16131014	9429.396	9909.643
5)	m	MCPA	10.597	10.210	46563042	26146775	8585.974	10031.940
6)	m	Dichloroprop	11.027	10.580	64941458	38455734	89.898	98.751
7)	m	2,4-D	11.270	10.900	61027344	37001862	85.174	94.798
8)	m	2,4,5-TP ...	12.197	11.763	278.6E6	158.6E6	90.829	100.130
9)	m	2,4,5-T	12.490	12.157	206.0E6	117.0E6	82.320	92.605
10)	m	2,4-DB	13.057	12.677	20258187	12246002	60.264	71.312
11)	m	Dinoseb	14.293	13.037	180.1E6	104.3E6	88.869	97.264

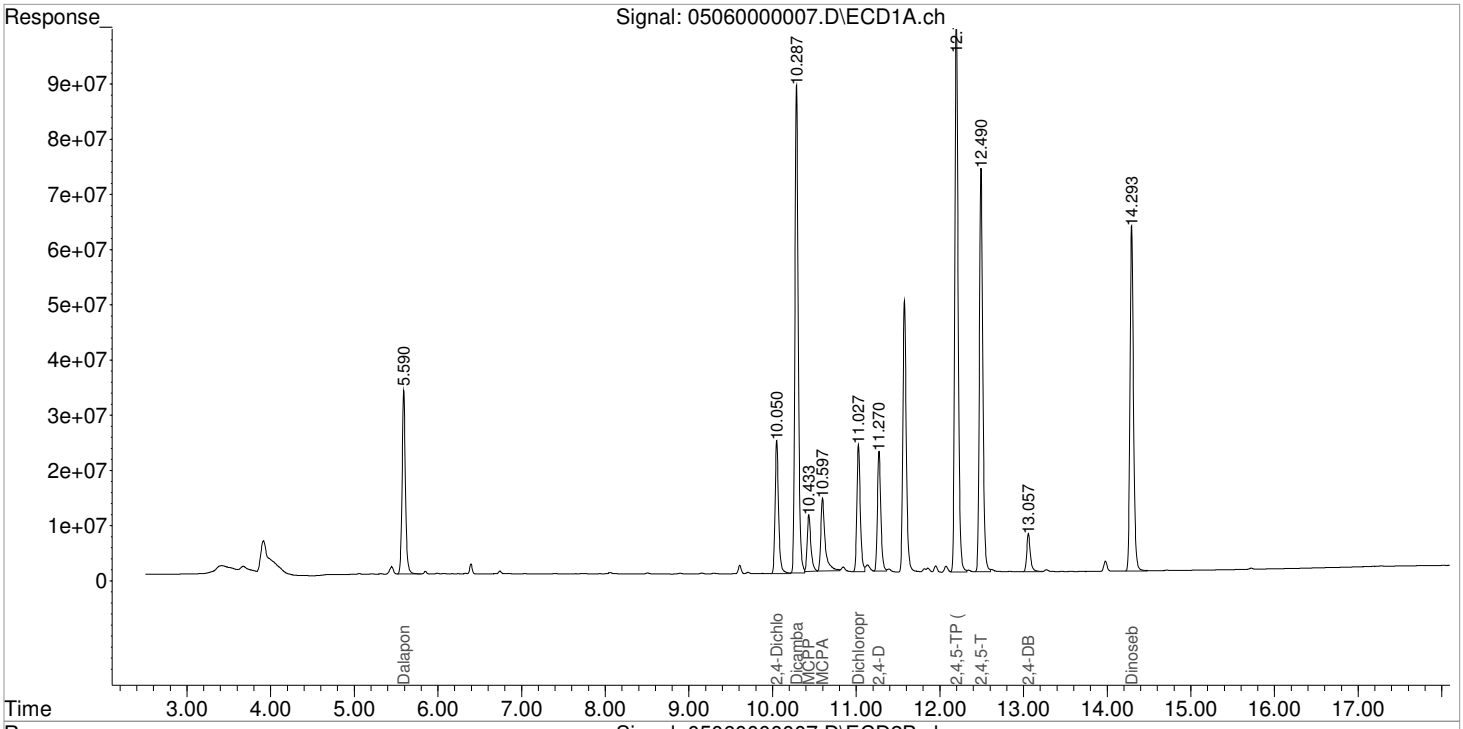
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

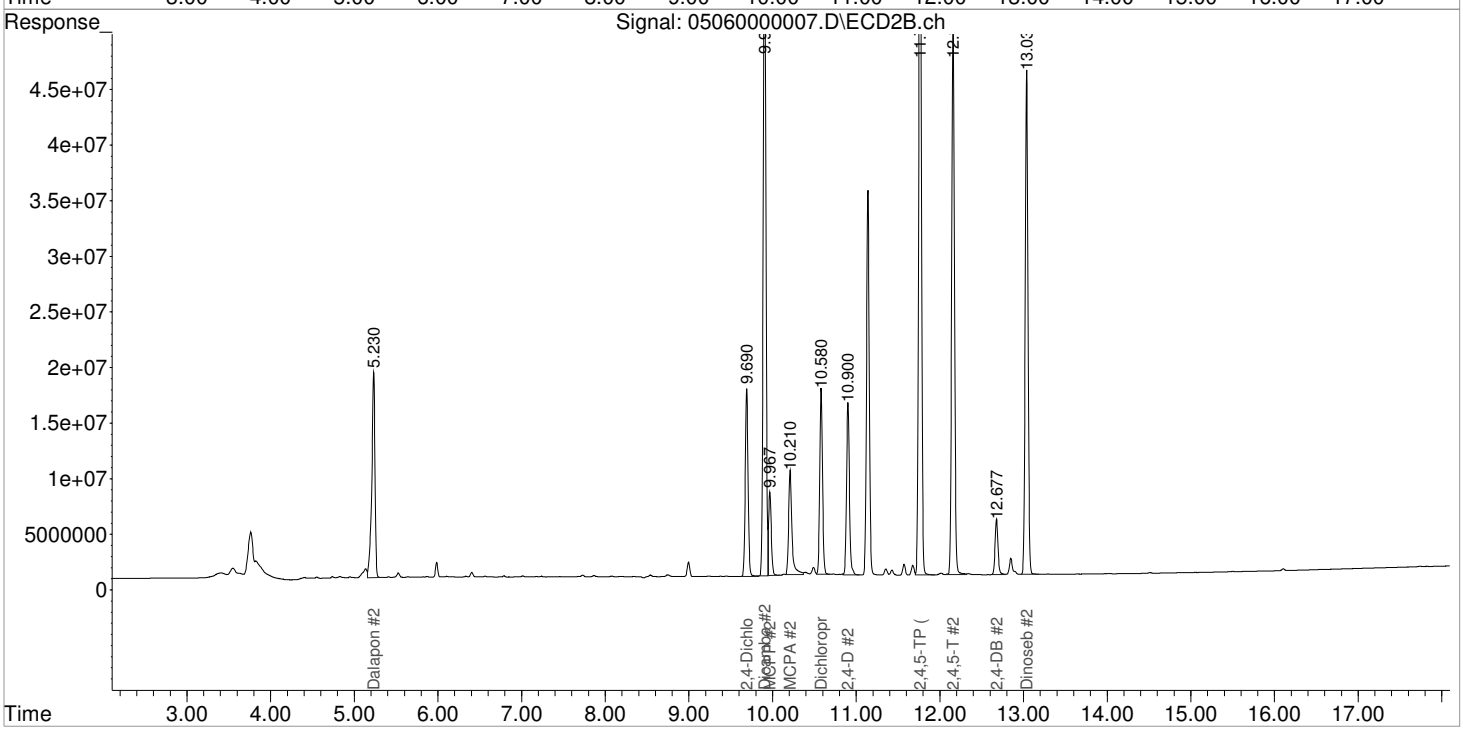
1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 12:44:18 Operator: JTC
Sample : PENTA02-29K 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:33 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 13:08:11 Operator: JTC
Sample : PENTA02-29L 125 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:33 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.050	9.690	88784421	49264861	110.031	116.158
		Target Compounds						
1)	m	Dalapon	5.590	5.233	113.4E6	59894914	118.197	118.040
3)	m	Dicamba	10.287	9.903	311.6E6	173.6E6	121.343	127.927
4)	m	MCPP	10.433	9.967	38269446	20201531	11787.335	12564.104
5)	m	MCPA	10.597	10.210	57297558	32103973	10957.559	12525.357
6)	m	Dichloroprop	11.027	10.580	82512251	48261533	114.221	125.102
7)	m	2,4-D	11.273	10.903	81250421	47279514	113.399	121.129
8)	m	2,4,5-TP ...	12.197	11.763	358.2E6	203.0E6	116.779	128.168
9)	m	2,4,5-T	12.490	12.157	268.9E6	151.7E6	107.482	120.084
10)	m	2,4-DB	13.057	12.677	26494780	15886130	78.816	92.510
11)	m	Dinoseb	14.290	13.037	229.2E6	132.0E6	113.095	123.108

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

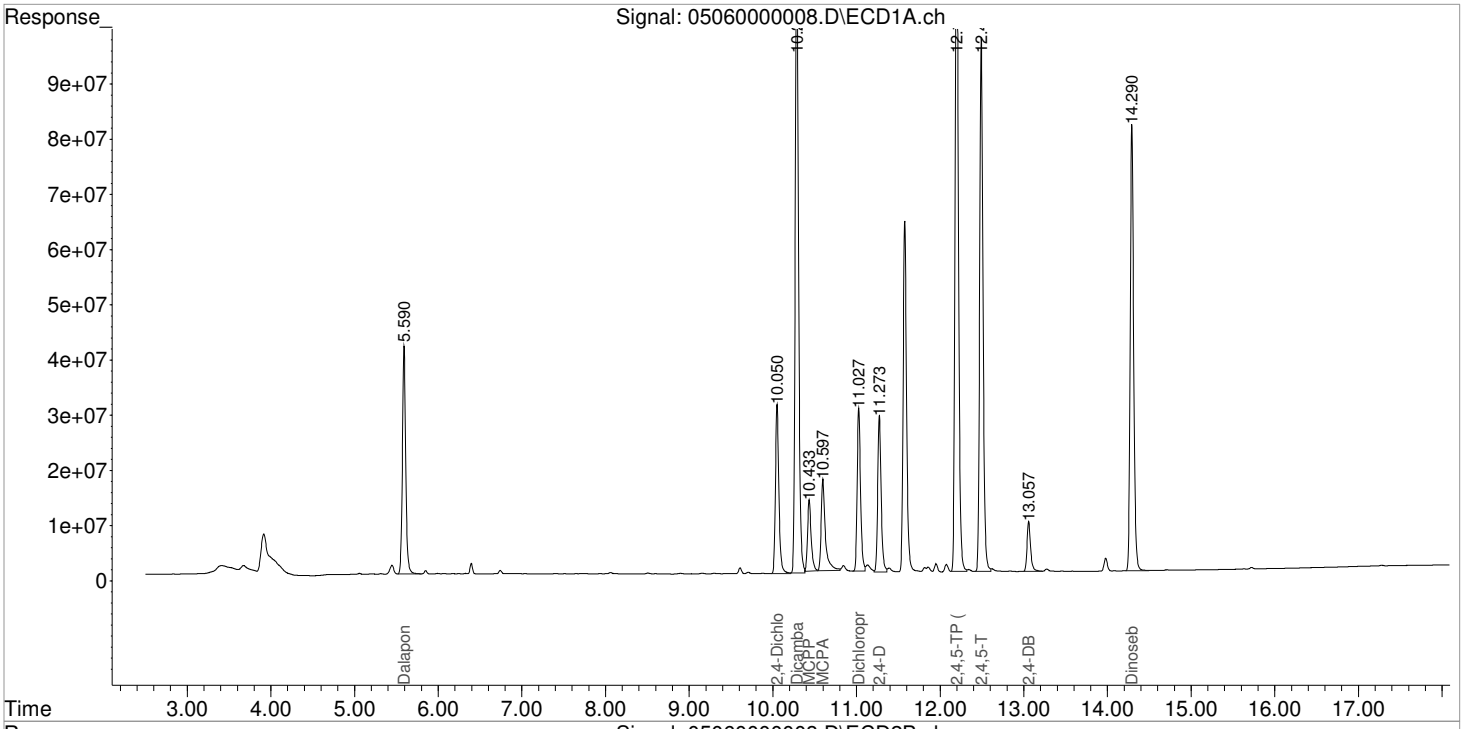
Quantitation Report (QT Reviewed)

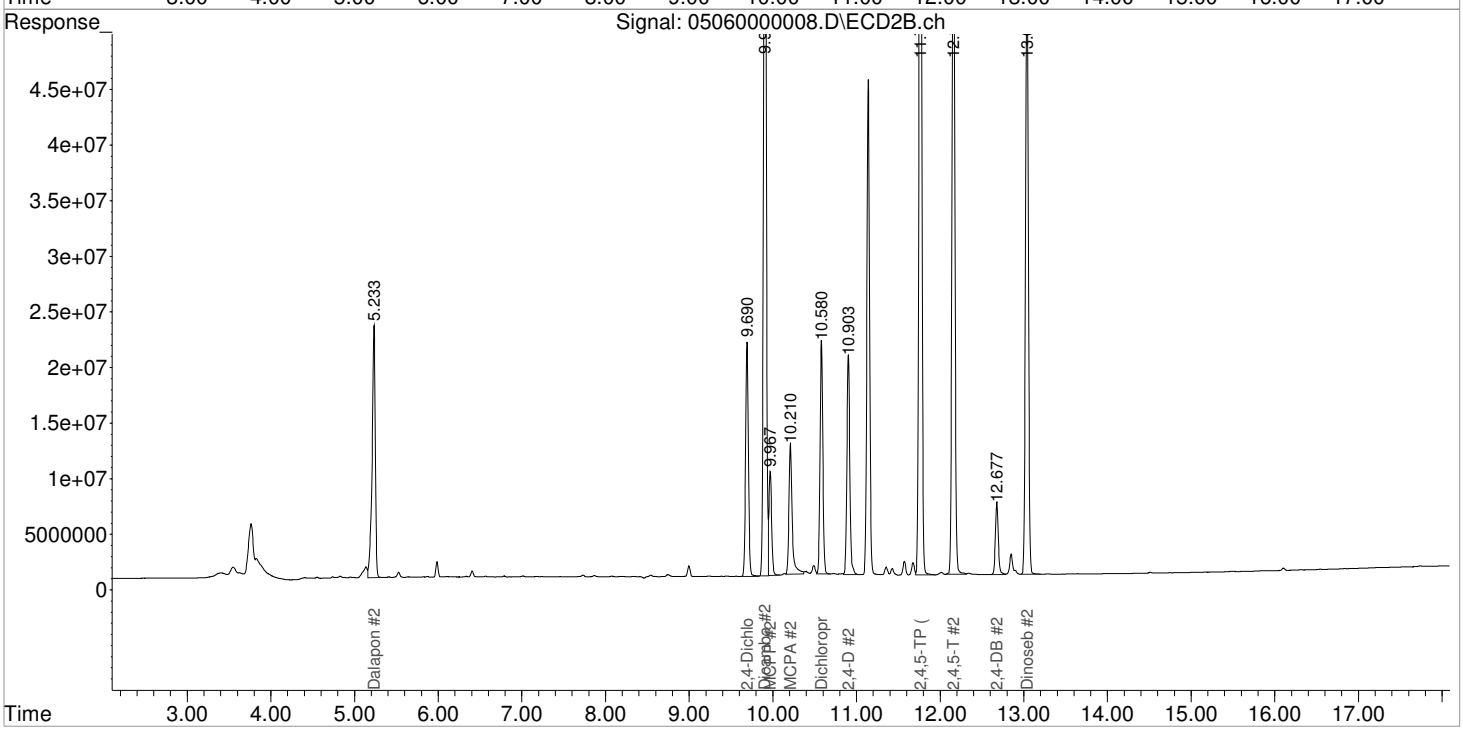
1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 13:08:11 Operator: JTC
Sample : PENTA02-29L 125 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:33 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 13:32:07 Operator: JTC
Sample : PENTA02-29M 150 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:36 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.050	9.690	107.2E6	59361041	132.852	139.964
		Target Compounds						
1)	m	Dalapon	5.590	5.233	136.3E6	71696219	142.103	141.298
3)	m	Dicamba	10.287	9.907	379.8E6	210.9E6	147.908	155.363
4)	m	MCPP	10.433	9.967	45103329	23931941	14055.338	14996.776
5)	m	MCPA	10.597	10.210	67173083	38091222	13251.191	15031.352
6)	m	Dichloroprop	11.027	10.580	100.5E6	58321947	139.134	152.137
7)	m	2,4-D	11.270	10.900	99445417	58352940	138.793	149.499
8)	m	2,4,5-TP ...	12.197	11.763	440.2E6	250.0E6	143.528	157.803
9)	m	2,4,5-T	12.490	12.157	336.3E6	188.6E6	134.426	149.289
10)	m	2,4-DB	13.057	12.677	32434775	19240547	96.486	112.043
11)	m	Dinoseb	14.290	13.037	278.0E6	160.5E6	137.158	149.713

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

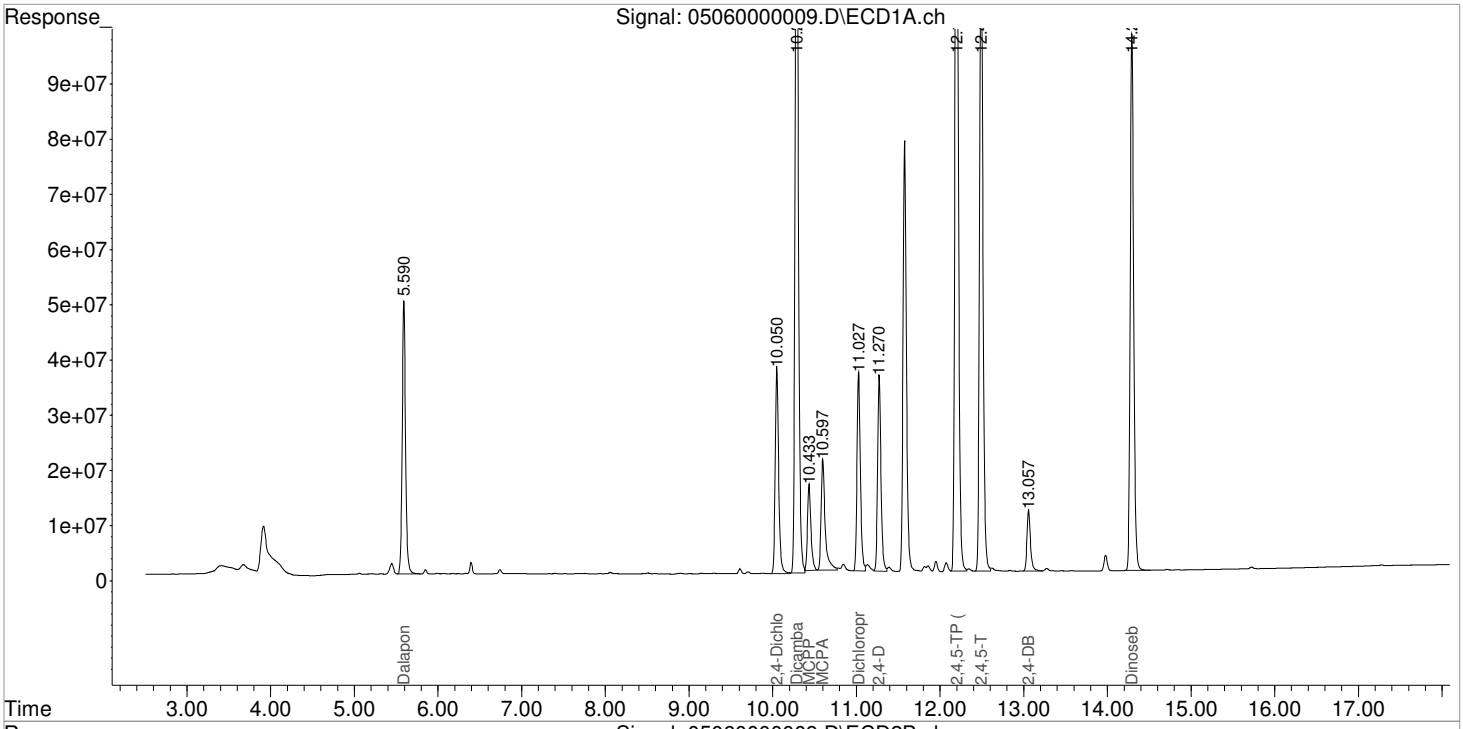
Quantitation Report (QT Reviewed)

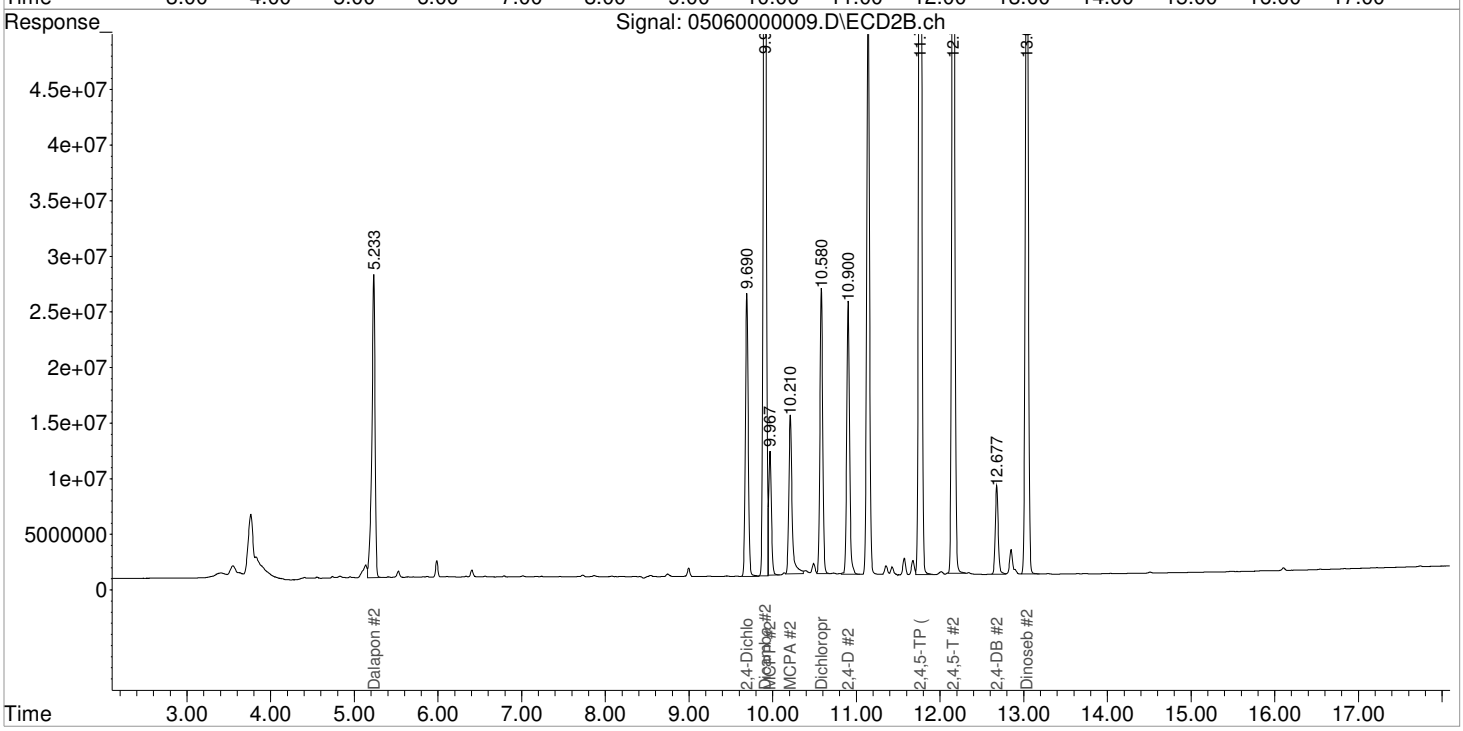
1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 13:32:07 Operator: JTC
Sample : PENTA02-29M 150 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:36 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000010.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 13:56:04 Operator: JTC
Sample : PENTA02-29N 175 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:38 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.050	9.690	126.6E6	69179269	156.894	163.113
		Target Compounds						
1)	m	Dalapon	5.593	5.233	158.9E6	83291421	165.701	164.149
3)	m	Dicamba	10.287	9.903	448.0E6	246.9E6	174.498	181.942
4)	m	MCPP	10.433	9.967	53273196	27578560	16766.723	17374.806
5)	m	MCPA	10.597	10.210	78494479	43919168	16036.005	17470.670
6)	m	Dichloroprop	11.027	10.580	118.7E6	68129640	164.340	178.493
7)	m	2,4-D	11.270	10.900	116.9E6	68890938	163.089	176.497
8)	m	2,4,5-TP ...	12.197	11.763	523.0E6	294.3E6	170.532	185.765
9)	m	2,4,5-T	12.490	12.157	402.5E6	225.4E6	160.862	178.457
10)	m	2,4-DB	13.057	12.677	39541350	23317133	117.627	135.783
11)	m	Dinoseb	14.290	13.037	329.1E6	187.6E6	162.382	175.006

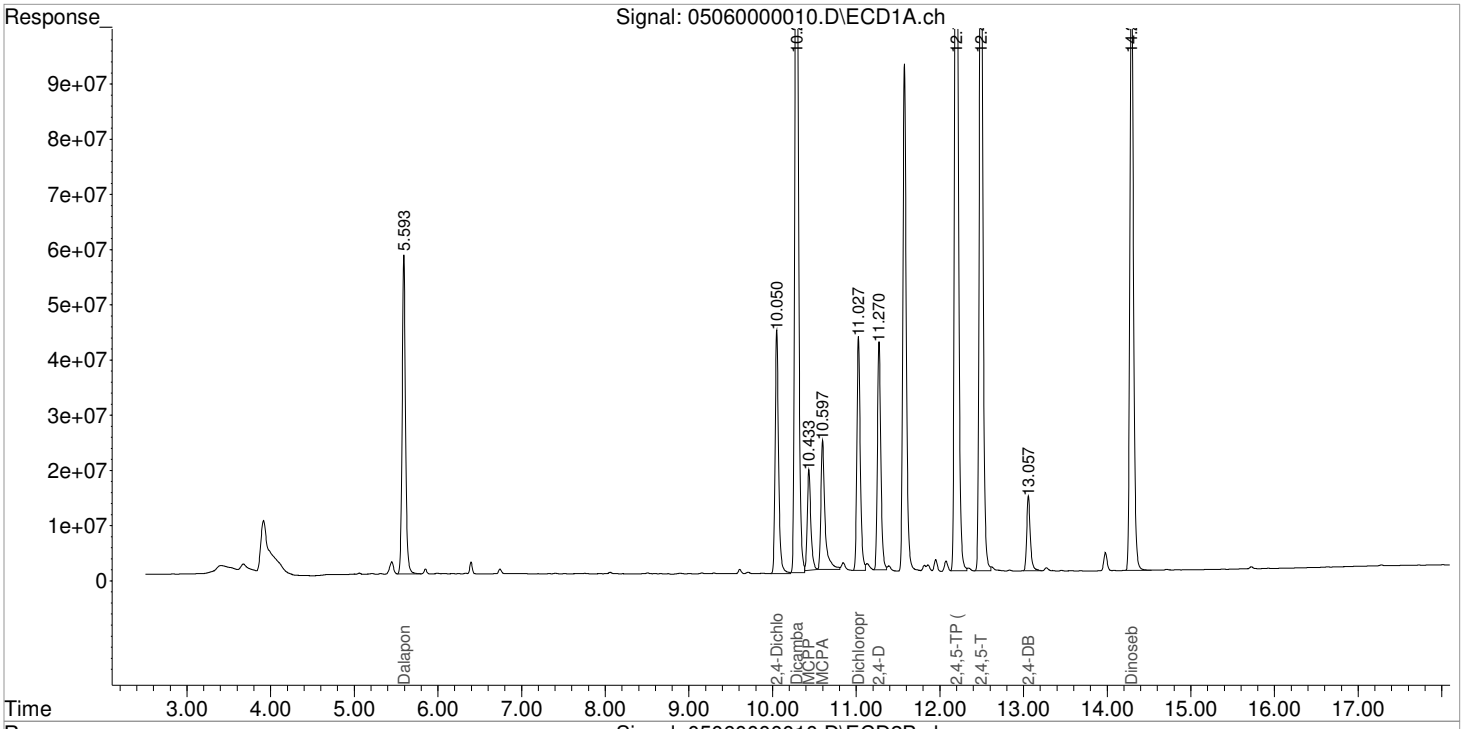
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

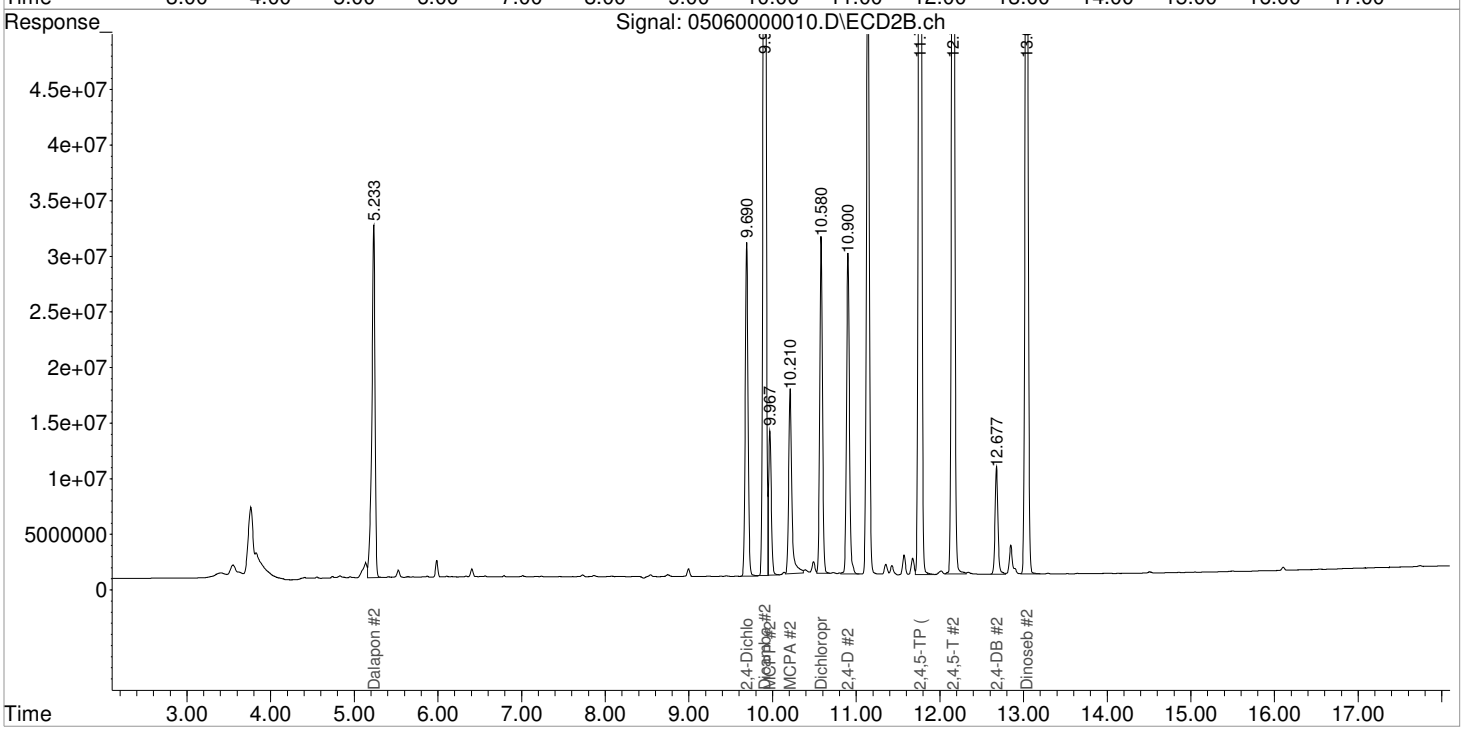
1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000010.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 13:56:04 Operator: JTC
Sample : PENTA02-29N 175 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:38 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000011.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 14:20:04 Operator: JTC
Sample : PENTA02-30A 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:42 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.047	9.690	144.4E6	79019704	178.907	186.316
		Target Compounds						
1)	m	Dalapon	5.590	5.230	181.0E6	94611511	188.704	186.459
3)	m	Dicamba	10.283	9.903	513.9E6	283.3E6	200.136	208.723
4)	m	MCPP	10.433	9.967	59509089	31138556	18836.268	19696.347
5)	m	MCPA	10.597	10.210	88046242	49602394	18539.580	19849.415
6)	m	Dichloroprop	11.027	10.580	136.3E6	77744014	188.683	204.329
7)	m	2,4-D	11.270	10.900	136.6E6	78866131	190.593	202.053
8)	m	2,4,5-TP ...	12.197	11.760	600.2E6	337.1E6	195.694	212.766
9)	m	2,4,5-T	12.490	12.157	463.1E6	259.1E6	185.105	205.102
10)	m	2,4-DB	13.057	12.677	46127499	27013556	137.219	157.308
11)	m	Dinoseb	14.290	13.037	375.8E6	214.4E6	185.434	199.988

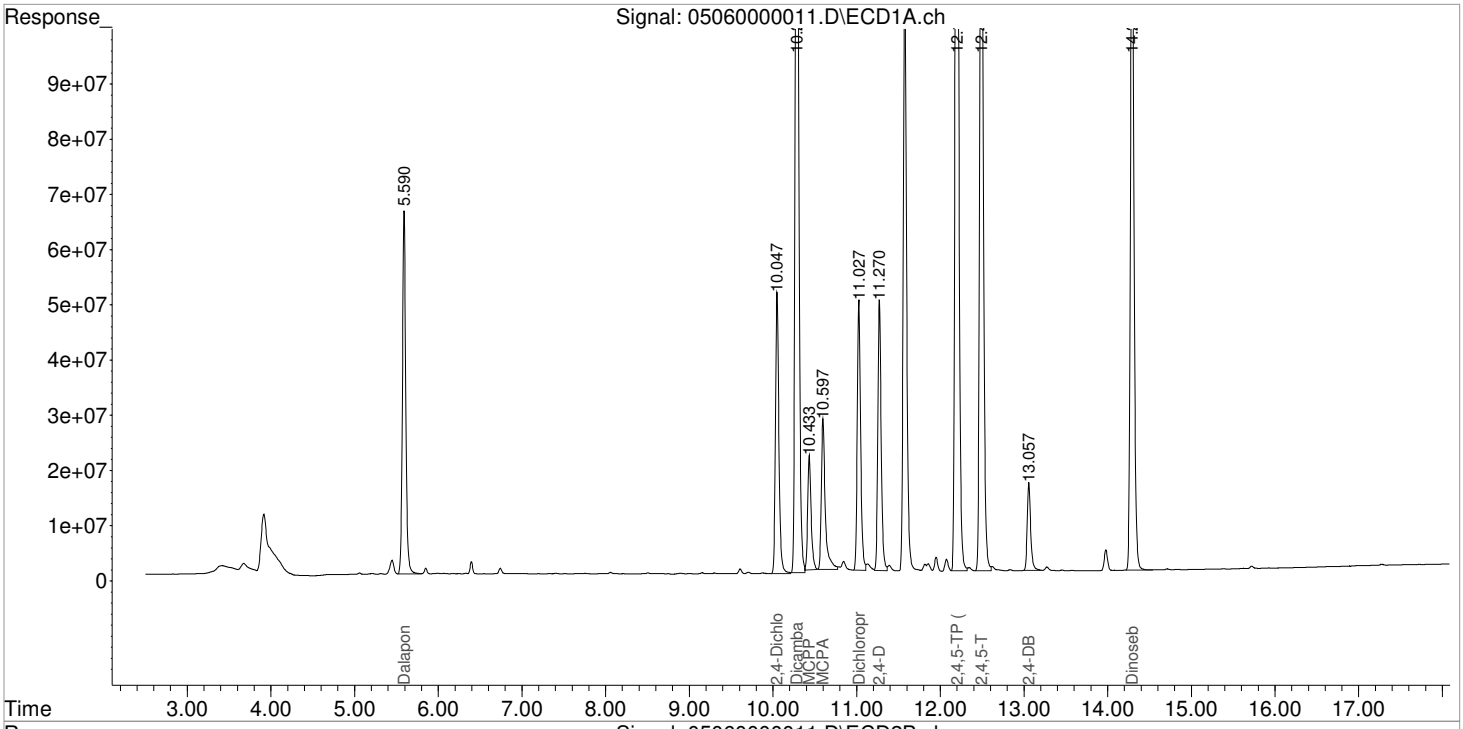
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

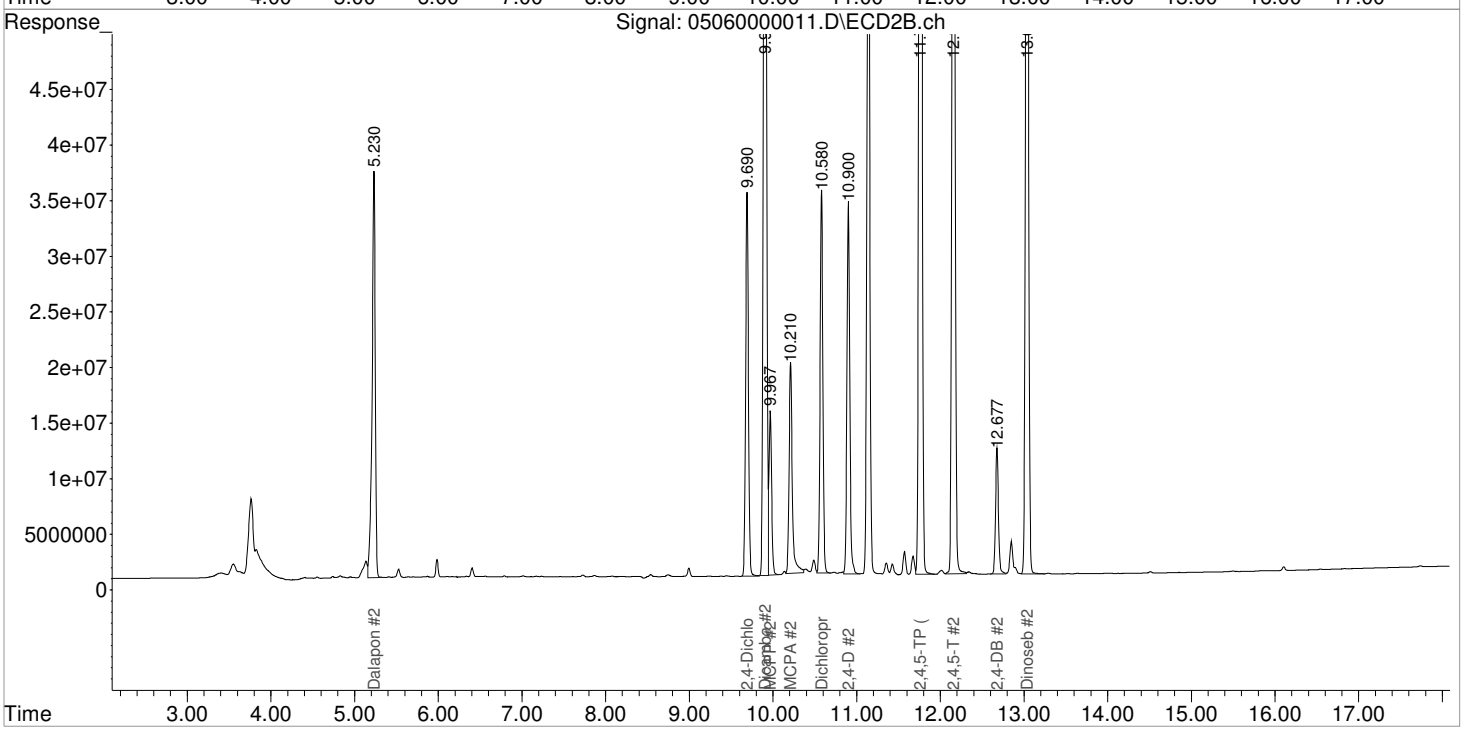
1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000011.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 14:20:04 Operator: JTC
Sample : PENTA02-30A 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:42 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000012.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 14:43:57 Operator: JTC
Sample : PENTA02-29G 100 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:53:18 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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	5.590	5.230	92191894	48519119	89.950	87.280
3)	m	Dicamba	10.283	9.903	244.5E6	136.2E6	94.525	92.668
4)	m	MCPP	10.433	9.967	31176015	15270057	9415.434	8761.337
5)	m	MCPA	10.597	10.210	46548346	26315983	9348.885	9448.487
6)	m	Dichloroprop	11.023	10.580	56945476	33757271	80.227	80.923
7)	m	2,4-D	11.270	10.900	53080226	33825157	79.438	83.566
8)	m	2,4,5-TP ...	12.193	11.763	254.3E6	144.8E6	87.305	86.005
9)	m	2,4,5-T	12.490	12.157	197.2E6	111.7E6	91.335	89.862
10)	m	2,4-DB	13.057	12.677	20486396	11776928	93.165	89.060
11)	m	Dinoseb	14.290	13.037	170.7E6	99372582	87.823	86.781

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

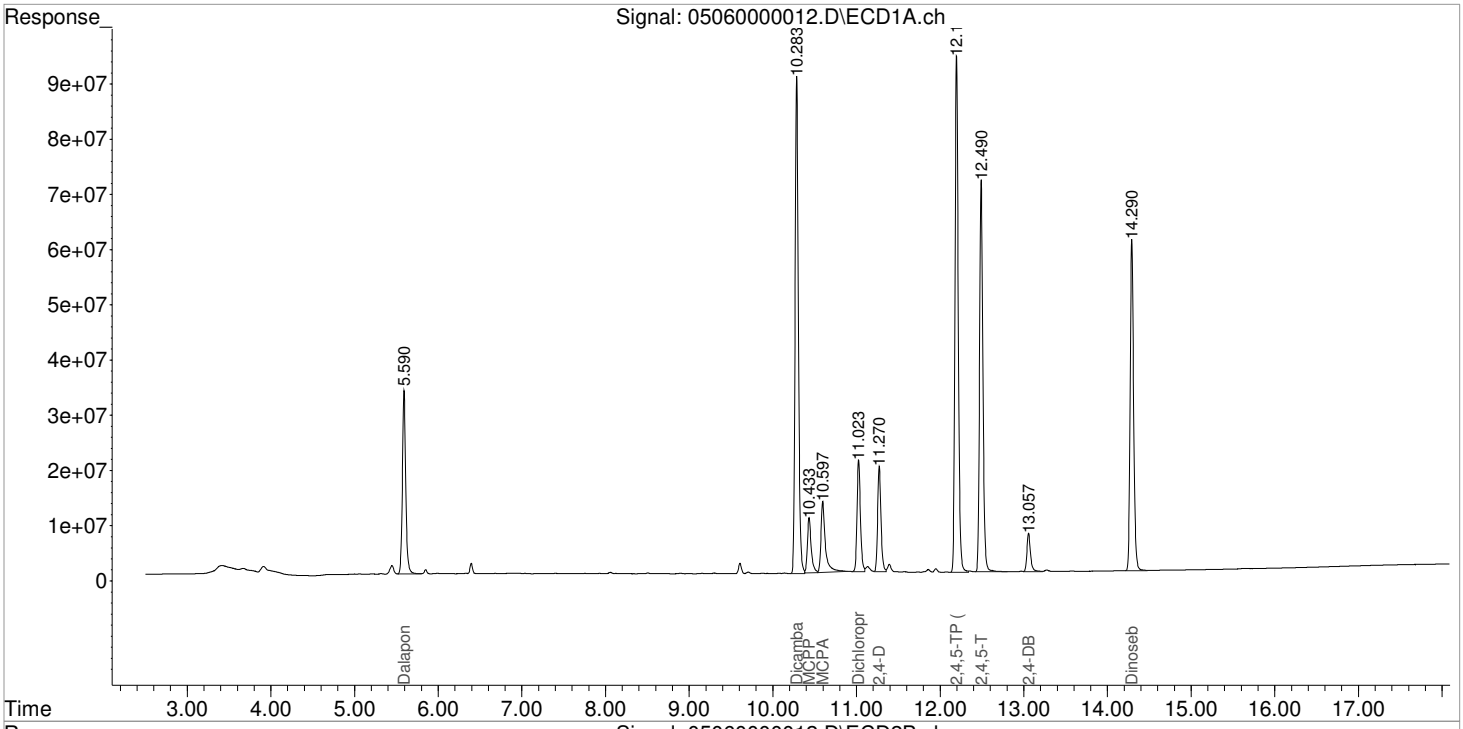
Quantitation Report (QT Reviewed)

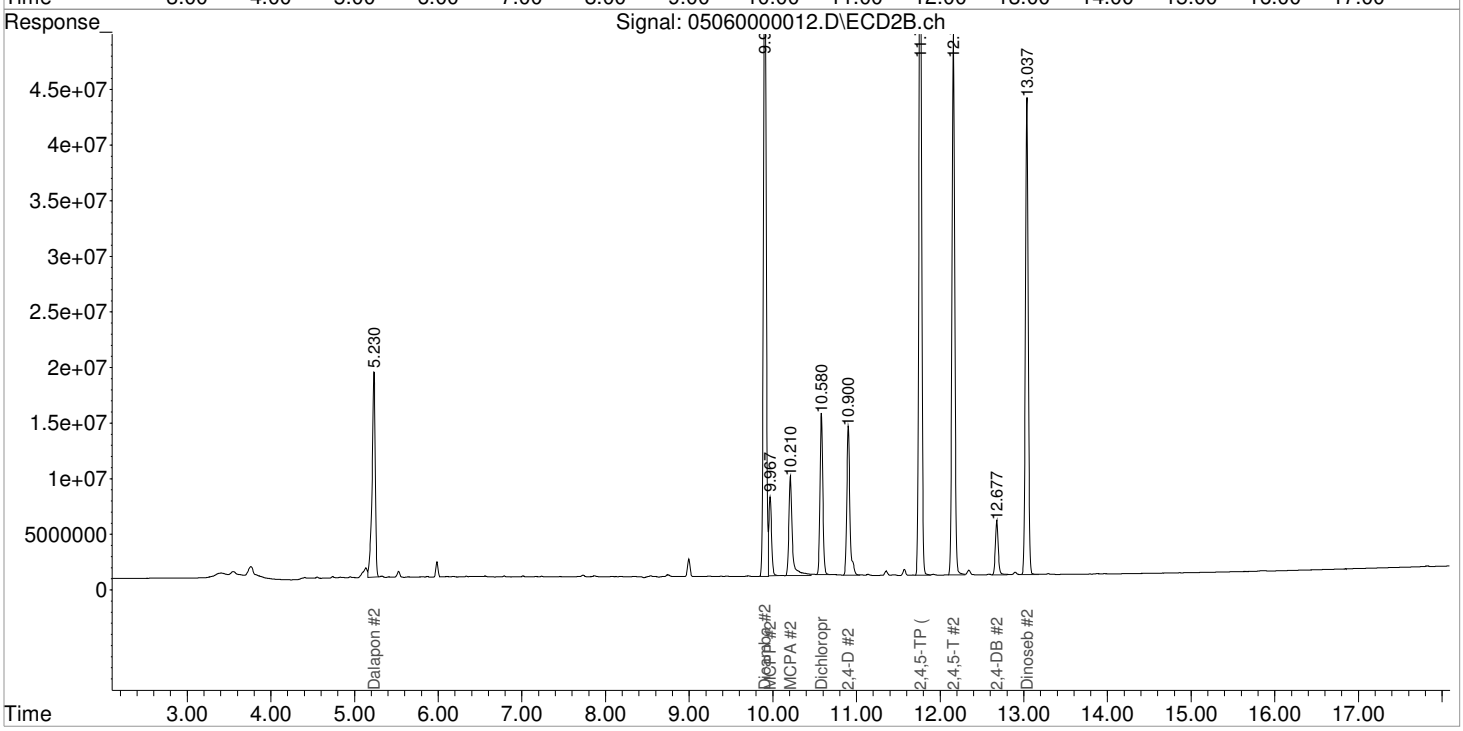
1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000012.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 14:43:57 Operator: JTC
Sample : PENTA02-29G 100 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:53:18 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000013.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 15:08:05 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:53:05 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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	5.647f	5.177f	270003	80120	0.263	0.144 #
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	10.567f	0.000	63918	0	N.D.	N.D.
6)	m	Dichloroprop	0.000	10.597	0	538153	N.D.	N.D.
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.
8)	m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9)	m	2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10)	m	2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11)	m	Dinoseb	0.000	0.000	0	0	N.D.	N.D.

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

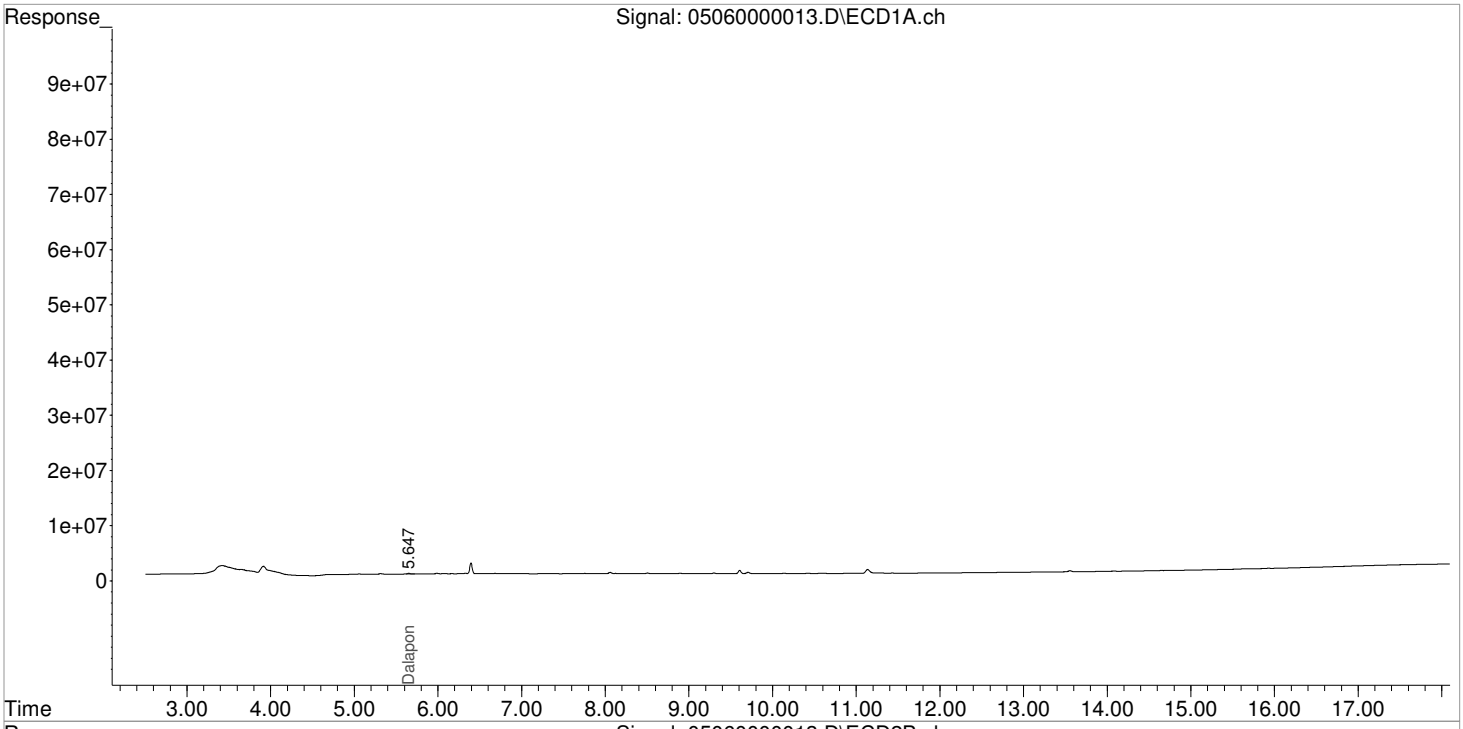
Quantitation Report (QT Reviewed)

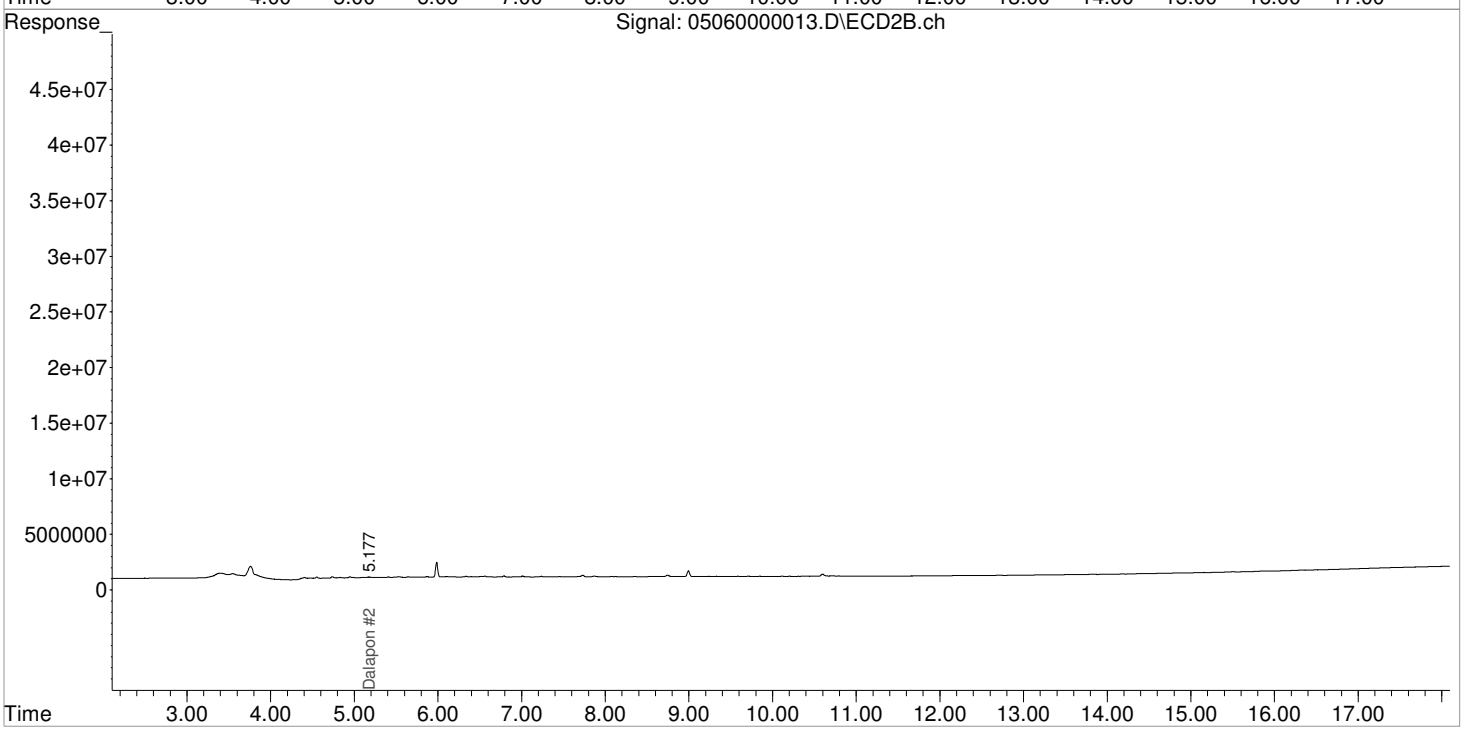
1st JTC 05/06/21
2nd 4w 05/06/21

Data File : J:\GC34\DATA\050621-HB\05060000013.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 15:08:05 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:53:05 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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





Sel	Run	Location	Method Sample Name	Datafile	SeqTable	Calib:RF:RT
No	1	Vial 100	8151A-17 PRIMER	05210000001	F:01:01	
No	2	Vial 100	8151A-17 PRIMER	05210000002	F:02:01	
No	3	Vial 1	8151A-17 PENTA02-29F 100PPB CCV	05210000003	F:03:01	
No	4	Vial 2	8151A-17 IB	05210000004	F:04:01	
No	5	Vial 25	8151A-17 KQ2108677-02 LCS	05210000005	F:05:01	
No	6	Vial 26	8151A-17 KQ2108677-03 MB	05210000006	F:06:01	
No	7	Vial 27	8151A-17 KQ2108677-04 MB	05210000007	F:07:01	
No	8	Vial 28	8151A-17 K2104987-005	05210000008	F:08:01	
No	9	Vial 29	8151A-17 K2104987-005 MS	05210000009	F:09:01	
No	10	Vial 30	8151A-17 KQ2107590-04 MB	05210000010	F:10:01	
No	11	Vial 31	8151A-17 KQ2107590-03 LCS	05210000011	F:11:01	
No	12	Vial 32	8151A-17 K2104776-001	05210000012	F:12:01	
No	13	Vial 33	8151A-17 K2104776-002	05210000013	F:13:01	
No	14	Vial 34	8151A-17 K2104776-002 MS	05210000014	F:14:01	
No	15	Vial 35	8151A-17 K2104776-002 DMS	05210000015	F:15:01	
No	16	Vial 36	8151A-17 K2104776-003	05210000016	F:16:01	
No	17	Vial 37	8151A-17 K2104776-004	05210000017	F:17:01	
No	18	Vial 38	8151A-17 K2104776-005	05210000018	F:18:01	
No	19	Vial 39	8151A-17 K2104776-006	05210000019	F:19:01	
No	20	Vial 1	8151A-17 PENTA02-29F 100PPB CCV	05210000020	F:20:01	
No	21	Vial 2	8151A-17 IB	05210000021	F:21:01	
No	22	Vial 40	8151A-17 K2104776-007	05210000022	F:22:01	
No	23	Vial 41	8151A-17 K2104776-008	05210000023	F:23:01	
No	24	Vial 42	8151A-17 K2104776-009	05210000024	F:24:01	
No	25	Vial 43	8151A-17 K2104776-010	05210000025	F:25:01	
No	26	Vial 44	8151A-17 K2104776-011	05210000026	F:26:01	
No	27	Vial 45	8151A-17 K2104776-012	05210000027	F:27:01	
No	28	Vial 46	8151A-17 K2104776-013	05210000028	F:28:01	

RUN 724570

RUN 724571

KC2100249

Sel	Run	Location	Method Sample Name	Datafile	SeqTable	Calib:RF:RT
No	29	Vial 47	8151A-17 K2104776-014	05210000029	F:29:01	
No	30	Vial 48	8151A-17 K2104776-015	05210000030	F:30:01	
No	31	Vial 49	8151A-17 K2104776-016	05210000031	F:31:01	
No	32	Vial 1	8151A-17 PENTA02-29F 100PPB CCV	05210000032	F:32:01	
No	33	Vial 2	8151A-17 IB	05210000033	F:33:01	
No	34	Vial 50	8151A-17 KQ2107591-03 LCS	05210000034	F:34:01	
No	35	Vial 51	8151A-17 KQ2107591-04 MB	05210000035	F:35:01	
No	36	Vial 52	8151A-17 K2104778-001	05210000036	F:36:01	
No	37	Vial 53	8151A-17 K2104778-002	05210000037	F:37:01	
No	38	Vial 54	8151A-17 K2104778-003	05210000038	F:38:01	
No	39	Vial 55	8151A-17 K2104778-003 MS	05210000039	F:39:01	
No	40	Vial 56	8151A-17 K2104778-003 DMS	05210000040	F:40:01	
No	41	Vial 57	8151A-17 K2104778-004	05210000041	F:41:01	
No	42	Vial 58	8151A-17 K2104778-005	05210000042	F:42:01	
No	43	Vial 59	8151A-17 K2104778-006	05210000043	F:43:01	
No	44	Vial 60	8151A-17 K2104778-007	05210000044	F:44:01	
No	45	Vial 61	8151A-17 K2104778-008	05210000045	F:45:01	
No	46	Vial 1	8151A-17 PENTA02-29F 100PPB CCV	05210000046	F:46:01	
No	47	Vial 2	8151A-17 IB	05210000047	F:47:01	
No	48	Vial 62	8151A-17 K2104778-009	05210000048	F:48:01	
No	49	Vial 63	8151A-17 K2104778-010	05210000049	F:49:01	
No	50	Vial 64	8151A-17 K2104778-011	05210000050	F:50:01	
No	51	Vial 65	8151A-17 K2104778-012	05210000051	F:51:01	
No	52	Vial 66	8151A-17 K2104778-013	05210000052	F:52:01	
No	53	Vial 67	8151A-17 K2104778-014	05210000053	F:53:01	
No	54	Vial 68	8151A-17 K2104778-015	05210000054	F:54:01	
No	55	Vial 69	8151A-17 KQ2108469-01 LCS	05210000055	F:55:01	

Sel	Run	Location	Method Sample Name	Datafile	SeqTable	Calib:RF:RT
No	56	Vial 70	8151A-17 KQ2108469-02 DLCS	05210000056	F:56:01	
No	57	Vial 71	8151A-17 KQ2108469-03 MB	05210000057	F:57:01	
No	58	Vial 72	8151A-17 K2105385-001	05210000058	F:58:01	
No	59	Vial 73	8151A-17 K2105385-002	05210000059	F:59:01	
No	60	Vial 74	8151A-17 K2105385-003	05210000060	F:60:01	
No	61	Vial 1	8151A-17 PENTA02-29F 100PPB CCV	05210000061	F:61:01	
No	62	Vial 2	8151A-17 IB	05210000062	F:62:01	
No	63	Vial 75	8151A-17 K2105385-004	05210000063	F:63:01	
No	64	Vial 76	8151A-17 K2105385-005	05210000064	F:64:01	
No	65	Vial 77	8151A-17 K2105385-006	05210000065	F:65:01	
No	66	Vial 78	8151A-17 K2105385-007	05210000066	F:66:01	
No	67	Vial 79	8151A-17 K2105385-008	05210000067	F:67:01	
No	68	Vial 80	8151A-17 K2105385-009	05210000068	F:68:01	
No	69	Vial 81	8151A-17 K2105385-010	05210000069	F:69:01	
No	70	Vial 82	8151A-17 K2105385-011	05210000070	F:70:01	
No	71	Vial 83	8151A-17 K2105385-012	05210000071	F:71:01	
No	72	Vial 84	8151A-17 K2105385-013	05210000072	F:72:01	
No	73	Vial 1	8151A-17 PENTA02-29F 100PPB CCV	05210000073	F:73:01	
No	74	Vial 2	8151A-17 IB	05210000074	F:74:01	
No	75	Vial 85	8151A-17 K2105385-014	05210000075	F:75:01	
No	76	Vial 86	8151A-17 K2105385-015	05210000076	F:76:01	
No	77	Vial 87	8151A-17 K2105385-017	05210000077	F:77:01	
No	78	Vial 88	8151A-17 K2105385-018	05210000078	F:78:01	
No	79	Vial 1	8151A-17 PENTA02-29F 100PPB CCV	05210000079	F:79:01	
No	80	Vial 2	8151A-17 IB	05210000080	F:80:01	