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

May 25, 2021

Analytical Report for Service Request No: K2104780

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

RE: GascoSiltronics: 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 **K2104780.**

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

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

Table of Contents

Acronyms

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

Inorganic Data Qualifiers

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

Metals Data Qualifiers

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

Organic Data Qualifiers

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

Additional Petroleum Hydrocarbon Specific Qualifiers

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

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

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

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

Client: Anchor QEA, LLC
Project: GascoSiltronics: US Moorings
Sample Matrix: Sediment

Service Request: K2104780
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:

Sixteen 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 05/25/2021

Chain of Custody

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2104780

COC ID: ALS-20210502-142848

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-005SC-B-00-02-210502	N	SE	05/02/2021	11:20	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
002	USMPDI-005SC-B-02-05-210502	N	SE	05/02/2021	11:20	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
003	USMPDI-005SC-B-05-6.6-210502	N	SE	05/02/2021	11:20	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
004	USMPDI-008SC-B-00-02-210502	N	SE	05/02/2021	10:15	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
005	USMPDI-008SC-B-02-3.8-210502	N	SE	05/02/2021	10:15	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
006	USMPDI-010SC-B-00-02-210502	N	SE	05/02/2021	13:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
007	USMPDI-010SC-B-02-05-210502	N	SE	05/02/2021	13:30	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 COREIRO	Print Name K Mirror	Print Name	Print Name	Print Name	Print Name
Company AQ	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: 5/2/2021

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

K2104780

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20210502-142848

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

Project: GascoSiltronic: US Moorings

Client: NW Natural

Sample Custodian: SN

Lab: ALS Environmental, Kelso, WA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
008	USMPDI-010SC-B-05-07-210502	N	SE	05/02/2021	13:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
009	USMPDI-010SC-B-07-10-210502	N	SE	05/02/2021	13:30	2	X				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
010	USMPDI-010SC-B-10-11.5-210502	N	SE	05/02/2021	13:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
011	USMPDI-1010SC-B-02-05-210502	FD	SE	05/02/2021		1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
012	USMPDI-019SC-B-00-02-210502	N	SE	05/02/2021	8:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
013	USMPDI-019SC-B-02-05-210502	N	SE	05/02/2021	8:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
014	USMPDI-019SC-B-05-07-210502	N	SE	05/02/2021	8:30	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]				
Print Name	C.GREIG	A Moror				
Company	AQ	ALS				
Date/Time	5/3/21 0830	5/3/21 1330				

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

Date Printed: 5/2/2021

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2104780

COC ID: ALS-20210502-142848

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
015	USMPDI-019SC-B-07-10-210502	N	SE	05/02/2021	8:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
016	USMPDI-019SC-B-10-11.6-210502	N	SE	05/02/2021	8:30	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. OREFICE	Print Name	Print Name	Print Name	Print Name	Print Name
Company AQ	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: 5/2/2021

PM MH

Cooler Receipt and Preservation Form

Client Anchor Service Request K21 04780

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
5.7	✓	IR01	AKS20210502-140548	—	—		

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

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

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/2/21
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-005SC-B-00-02-210502	K2104780-001	**64.0**	-	-	1	05/06/21 19:35	
USMPDI-005SC-B-02-05-210502	K2104780-002	**60.0**	-	-	1	05/06/21 19:35	
USMPDI-005SC-B-05-6.6-210502	K2104780-003	**61.9**	-	-	1	05/06/21 19:35	
USMPDI-008SC-B-00-02-210502	K2104780-004	**49.3**	-	-	1	05/06/21 19:35	
USMPDI-008SC-B-02-3.8-210502	K2104780-005	**57.8**	-	-	1	05/06/21 19:35	
USMPDI-010SC-B-00-02-210502	K2104780-006	**44.4**	-	-	1	05/07/21 17:45	
USMPDI-010SC-B-02-05-210502	K2104780-007	**55.4**	-	-	1	05/07/21 17:45	
USMPDI-010SC-B-05-07-210502	K2104780-008	**54.1**	-	-	1	05/07/21 17:45	
USMPDI-010SC-B-07-10-210502	K2104780-009	**59.4**	-	-	1	05/07/21 17:45	
USMPDI-010SC-B-10-11.5-210502	K2104780-010	**58.7**	-	-	1	05/07/21 17:45	
USMPDI-1010SC-B-02-05-210502	K2104780-011	**53.3**	-	-	1	05/07/21 17:45	
USMPDI-019SC-B-00-02-210502	K2104780-012	**51.5**	-	-	1	05/07/21 17:45	
USMPDI-019SC-B-02-05-210502	K2104780-013	**53.9**	-	-	1	05/07/21 17:45	
USMPDI-019SC-B-05-07-210502	K2104780-014	**55.2**	-	-	1	05/07/21 17:45	
USMPDI-019SC-B-07-10-210502	K2104780-015	**58.7**	-	-	1	05/07/21 17:45	
USMPDI-019SC-B-10-11.6-210502	K2104780-016	**62.0**	-	-	1	05/07/21 17:45	
Method Blank	K2104780-MB1	ND	-	-	1	05/06/21 19:35	U
Method Blank	K2104780-MB2	ND	-	-	1	05/07/21 17:45	U

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21
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	K2104775-004DUP	-	-	52.4	53.7	53.1	2	20	05/06/21
Batch QC	K2104775-014DUP	-	-	50.8	50.5	50.7	<1	20	05/06/21
USMPDI-010SC-B-07-10-210502	K2104780-009DUP	-	-	59.4	59.5	59.5	<1	20	05/07/21
Batch QC	K2104993-001DUP	-	-	57.5	49.1	53.3	16	20	05/07/21

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

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 11:20
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-005SC-B-00-02-210502	**Units:**	ug/Kg
Lab Code:	K2104780-001	**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	77	3.7	1	05/24/21 13:31	5/14/21	
2,4-D	ND U	77	12	1	05/24/21 13:31	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	65	26 - 127	05/24/21 13:31	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 11:20
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-005SC-B-02-05-210502	**Units:**	ug/Kg
Lab Code:	K2104780-002	**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	83	4.0	1	05/24/21 13:56	5/14/21	
2,4-D	ND U	83	13	1	05/24/21 13:56	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	78	26 - 127	05/24/21 13:56	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 11:20
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-005SC-B-05-6.6-210502	**Units:**	ug/Kg
Lab Code:	K2104780-003	**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	80	3.9	1	05/24/21 14:20	5/14/21	
2,4-D	ND U	80	13	1	05/24/21 14:20	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	65	26 - 127	05/24/21 14:20	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 10:15
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-008SC-B-00-02-210502	**Units:**	ug/Kg
Lab Code:	K2104780-004	**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	100	4.9	1	05/24/21 14:44	5/14/21	
2,4-D	ND U	100	16	1	05/24/21 14:44	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	51	26 - 127	05/24/21 14:44	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 10:15
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-008SC-B-02-3.8-210502	**Units:**	ug/Kg
Lab Code:	K2104780-005	**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	85	4.1	1	05/24/21 15:08	5/14/21	
2,4-D	ND U	85	14	1	05/24/21 15:08	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	65	26 - 127	05/24/21 15:08	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 13:30
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-010SC-B-00-02-210502	**Units:**	ug/Kg
Lab Code:	K2104780-006	**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	110	5.3	1	05/24/21 15:32	5/14/21	
2,4-D	ND U	110	17	1	05/24/21 15:32	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	58	26 - 127	05/24/21 15:32	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 13:30
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-010SC-B-02-05-210502	**Units:**	ug/Kg
Lab Code:	K2104780-007	**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	88	4.3	1	05/24/21 15:56	5/14/21	
2,4-D	ND U	88	14	1	05/24/21 15:56	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	64	26 - 127	05/24/21 15:56	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 13:30
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-010SC-B-05-07-210502	**Units:**	ug/Kg
Lab Code:	K2104780-008	**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	90	4.3	1	05/24/21 16:20	5/14/21	
2,4-D	ND U	90	14	1	05/24/21 16:20	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	65	26 - 127	05/24/21 16:20	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 13:30
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-010SC-B-07-10-210502	**Units:**	ug/Kg
Lab Code:	K2104780-009	**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	84	4.1	1	05/24/21 18:20	5/14/21	
2,4-D	ND U	84	13	1	05/24/21 18:20	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	67	26 - 127	05/24/21 18:20	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 13:30
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-010SC-B-10-11.5-210502	**Units:**	ug/Kg
Lab Code:	K2104780-010	**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 U	83	4.0	1	05/24/21 16:44	5/14/21	
2,4-D	ND U	83	13	1	05/24/21 16:44	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	62	26 - 127	05/24/21 16:44	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-1010SC-B-02-05-210502	**Units:**	ug/Kg
Lab Code:	K2104780-011	**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	92	4.5	1	05/24/21 17:08	5/14/21	
2,4-D	ND U	92	15	1	05/24/21 17:08	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	64	26 - 127	05/24/21 17:08	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 08:30
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-019SC-B-00-02-210502	**Units:**	ug/Kg
Lab Code:	K2104780-012	**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	94	4.6	1	05/24/21 19:32	5/14/21	
2,4-D	ND U	94	15	1	05/24/21 19:32	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	67	26 - 127	05/24/21 19:32	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 08:30
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-019SC-B-02-05-210502	**Units:**	ug/Kg
Lab Code:	K2104780-013	**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	90	4.4	1	05/24/21 19:57	5/14/21	
2,4-D	ND U	90	14	1	05/24/21 19:57	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	66	26 - 127	05/24/21 19:57	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 08:30
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-019SC-B-05-07-210502	**Units:**	ug/Kg
Lab Code:	K2104780-014	**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	88	4.3	1	05/24/21 20:21	5/14/21	
2,4-D	ND U	88	14	1	05/24/21 20:21	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	65	26 - 127	05/24/21 20:21	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 08:30
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-019SC-B-07-10-210502	**Units:**	ug/Kg
Lab Code:	K2104780-015	**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	84	4.1	1	05/24/21 20:45	5/14/21	
2,4-D	ND U	84	13	1	05/24/21 20:45	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	61	26 - 127	05/24/21 20:45	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21 08:30
Sample Matrix:	Sediment	**Date Received:**	05/03/21 13:30
Sample Name:	USMPDI-019SC-B-10-11.6-210502	**Units:**	ug/Kg
Lab Code:	K2104780-016	**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	79	3.9	1	05/24/21 21:09	5/14/21	
2,4-D	ND U	79	13	1	05/24/21 21:09	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	66	26 - 127	05/24/21 21:09	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KQ2107592-04	**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	48	2.4	1	05/24/21 13:07	5/14/21	
2,4-D	ND U	48	7.7	1	05/24/21 13:07	5/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	48	26 - 127	05/24/21 13:07	

Confirmation Results

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

Service Request: K2104780
Date Collected: 05/02/21 13:30
Date Received: 5/3/21

Sample Name: USMPDI-010SC-B-07-10-210502
Lab Code: KQ2107592-01

Units: ug/Kg
Basis: Dry
Percent Solids: 59.4

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)	4.0	234	270	14		1	05/24/21 18:44
2,4-D	13	232	264	13		1	05/24/21 18:44

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

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

Service Request: K2104780
Date Collected: 05/02/21 13:30
Date Received: 5/3/21

Sample Name: USMPDI-010SC-B-07-10-210502
Lab Code: KQ2107592-02

Units: ug/Kg
Basis: Dry
Percent Solids: 59.4

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)	4.0	219	255	15		1	05/24/21 19:08
2,4-D	13	221	255	14		1	05/24/21 19:08

Confirmation Results

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

Service Request: K2104780
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2107592-03

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	102	117	14		1	05/24/21 12:43
2,4-D	7.7	97.1	118	19		1	05/24/21 12:43

Client: Anchor QEA, LLC **Service Request:** K2104780
Project: GascoSiltronics: 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-005SC-B-00-02-210502	K2104780-001	65
USMPDI-005SC-B-02-05-210502	K2104780-002	78
USMPDI-005SC-B-05-6.6-210502	K2104780-003	65
USMPDI-008SC-B-00-02-210502	K2104780-004	51
USMPDI-008SC-B-02-3.8-210502	K2104780-005	65
USMPDI-010SC-B-00-02-210502	K2104780-006	58
USMPDI-010SC-B-02-05-210502	K2104780-007	64
USMPDI-010SC-B-05-07-210502	K2104780-008	65
USMPDI-010SC-B-07-10-210502	K2104780-009	67
USMPDI-010SC-B-10-11.5-210502	K2104780-010	62
USMPDI-1010SC-B-02-05-210502	K2104780-011	64
USMPDI-019SC-B-00-02-210502	K2104780-012	67
USMPDI-019SC-B-02-05-210502	K2104780-013	66
USMPDI-019SC-B-05-07-210502	K2104780-014	65
USMPDI-019SC-B-07-10-210502	K2104780-015	61
USMPDI-019SC-B-10-11.6-210502	K2104780-016	66
Method Blank	KQ2107592-04	48
Lab Control Sample	KQ2107592-03	61
USMPDI-010SC-B-07-10-210502	KQ2107592-01	69
USMPDI-010SC-B-07-10-210502	KQ2107592-02	67

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Collected:**	05/02/21
Sample Matrix:	Sediment	**Date Received:**	05/03/21
		Date Analyzed:	05/24/21
		Date Extracted:	05/14/21

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name:	USMPDI-010SC-B-07-10-210502	**Units:**	ug/Kg
Lab Code:	K2104780-009	**Basis:**	Dry
Analysis Method:	8151A		
Prep Method:	Method		

		Matrix Spike KQ2107592-01			**Duplicate Matrix Spike** KQ2107592-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-TP (Silvex)	ND U	234	278	84	219	273	80	34-129	6	40
2,4-D	ND U	232	278	84	221	273	81	35-129	5	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:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Analyzed:**	05/24/21
Sample Matrix:	Sediment	**Date Extracted:**	05/14/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Units:**	ug/Kg
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	724879

Lab Control Sample
KQ2107592-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP (Silvex)	102	167	61	46-125
2,4-D	97.1	167	58	46-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Analyzed:**	05/24/21 13:07
Sample Matrix:	Sediment	**Date Extracted:**	05/14/21

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	K-GC-34
Lab Code:	KQ2107592-04	**File ID:**	J:\GC34\DATA\052421-HB\05240000006.D\
Analysis Method:	8151A	**Analysis Lot:**	724879
Prep Method:	Method	**Extraction Lot:**	378808

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2107592-03	J:\GC34\DATA\052421-HB\05240000005.D\	05/24/21 12:43
USMPDI-005SC-B-00-02-210502	K2104780-001	J:\GC34\DATA\052421-HB\05240000007.D\	05/24/21 13:31
USMPDI-005SC-B-02-05-210502	K2104780-002	J:\GC34\DATA\052421-HB\05240000008.D\	05/24/21 13:56
USMPDI-005SC-B-05-6.6-210502	K2104780-003	J:\GC34\DATA\052421-HB\05240000009.D\	05/24/21 14:20
USMPDI-008SC-B-00-02-210502	K2104780-004	J:\GC34\DATA\052421-HB\05240000010.D\	05/24/21 14:44
USMPDI-008SC-B-02-3.8-210502	K2104780-005	J:\GC34\DATA\052421-HB\05240000011.D\	05/24/21 15:08
USMPDI-010SC-B-00-02-210502	K2104780-006	J:\GC34\DATA\052421-HB\05240000012.D\	05/24/21 15:32
USMPDI-010SC-B-02-05-210502	K2104780-007	J:\GC34\DATA\052421-HB\05240000013.D\	05/24/21 15:56
USMPDI-010SC-B-05-07-210502	K2104780-008	J:\GC34\DATA\052421-HB\05240000014.D\	05/24/21 16:20
USMPDI-010SC-B-10-11.5-210502	K2104780-010	J:\GC34\DATA\052421-HB\05240000015.D\	05/24/21 16:44
USMPDI-1010SC-B-02-05-210502	K2104780-011	J:\GC34\DATA\052421-HB\05240000016.D\	05/24/21 17:08
USMPDI-010SC-B-07-10-210502	K2104780-009	J:\GC34\DATA\052421-HB\05240000019.D\	05/24/21 18:20
USMPDI-010SC-B-07-10-210502MS	KQ2107592-01	J:\GC34\DATA\052421-HB\05240000020.D\	05/24/21 18:44
USMPDI-010SC-B-07-10-210502DMS	KQ2107592-02	J:\GC34\DATA\052421-HB\05240000021.D\	05/24/21 19:08
USMPDI-019SC-B-00-02-210502	K2104780-012	J:\GC34\DATA\052421-HB\05240000022.D\	05/24/21 19:32
USMPDI-019SC-B-02-05-210502	K2104780-013	J:\GC34\DATA\052421-HB\05240000023.D\	05/24/21 19:57
USMPDI-019SC-B-05-07-210502	K2104780-014	J:\GC34\DATA\052421-HB\05240000024.D\	05/24/21 20:21
USMPDI-019SC-B-07-10-210502	K2104780-015	J:\GC34\DATA\052421-HB\05240000025.D\	05/24/21 20:45
USMPDI-019SC-B-10-11.6-210502	K2104780-016	J:\GC34\DATA\052421-HB\05240000026.D\	05/24/21 21:09

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Analyzed:**	05/24/21 12:43
Sample Matrix:	Sediment	**Date Extracted:**	05/14/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-34
Lab Code:	KQ2107592-03	**File ID:**	J:\GC34\DATA\052421-HB\05240000005.D\
Analysis Method:	8151A	**Analysis Lot:**	724879
Prep Method:	Method	**Extraction Lot:**	378808

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2107592-04	J:\GC34\DATA\052421-HB\05240000006.D\	05/24/21 13:07
USMPDI-005SC-B-00-02-210502	K2104780-001	J:\GC34\DATA\052421-HB\05240000007.D\	05/24/21 13:31
USMPDI-005SC-B-02-05-210502	K2104780-002	J:\GC34\DATA\052421-HB\05240000008.D\	05/24/21 13:56
USMPDI-005SC-B-05-6.6-210502	K2104780-003	J:\GC34\DATA\052421-HB\05240000009.D\	05/24/21 14:20
USMPDI-008SC-B-00-02-210502	K2104780-004	J:\GC34\DATA\052421-HB\05240000010.D\	05/24/21 14:44
USMPDI-008SC-B-02-3.8-210502	K2104780-005	J:\GC34\DATA\052421-HB\05240000011.D\	05/24/21 15:08
USMPDI-010SC-B-00-02-210502	K2104780-006	J:\GC34\DATA\052421-HB\05240000012.D\	05/24/21 15:32
USMPDI-010SC-B-02-05-210502	K2104780-007	J:\GC34\DATA\052421-HB\05240000013.D\	05/24/21 15:56
USMPDI-010SC-B-05-07-210502	K2104780-008	J:\GC34\DATA\052421-HB\05240000014.D\	05/24/21 16:20
USMPDI-010SC-B-10-11.5-210502	K2104780-010	J:\GC34\DATA\052421-HB\05240000015.D\	05/24/21 16:44
USMPDI-1010SC-B-02-05-210502	K2104780-011	J:\GC34\DATA\052421-HB\05240000016.D\	05/24/21 17:08
USMPDI-010SC-B-07-10-210502	K2104780-009	J:\GC34\DATA\052421-HB\05240000019.D\	05/24/21 18:20
USMPDI-010SC-B-07-10-210502MS	KQ2107592-01	J:\GC34\DATA\052421-HB\05240000020.D\	05/24/21 18:44
USMPDI-010SC-B-07-10-210502DMS	KQ2107592-02	J:\GC34\DATA\052421-HB\05240000021.D\	05/24/21 19:08
USMPDI-019SC-B-00-02-210502	K2104780-012	J:\GC34\DATA\052421-HB\05240000022.D\	05/24/21 19:32
USMPDI-019SC-B-02-05-210502	K2104780-013	J:\GC34\DATA\052421-HB\05240000023.D\	05/24/21 19:57
USMPDI-019SC-B-05-07-210502	K2104780-014	J:\GC34\DATA\052421-HB\05240000024.D\	05/24/21 20:21
USMPDI-019SC-B-07-10-210502	K2104780-015	J:\GC34\DATA\052421-HB\05240000025.D\	05/24/21 20:45
USMPDI-019SC-B-10-11.6-210502	K2104780-016	J:\GC34\DATA\052421-HB\05240000026.D\	05/24/21 21:09

Client: Anchor QEA, LLC **Service Request:** K2104780
Project: GascoSiltronics: 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:** K2104780
Project: GascoSiltronics: 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:** K2104780
Project: GascoSiltronics: 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
Project: GascoSiltronics: US Moorings

Service Request: K2104780
Calibration Date: 5/6/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP (Silvex)	TRG	Average RF	% RSD	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:** K2104780
Project: GascoSiltronics: 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:** K2104780
Project: GascoSiltronics: 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:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Analyzed:**	05/24/21 11:55

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052421-HB\05240000003.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	724879
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	79.5	1.684E6	1.407E6	-16.4	NA	±20	Average RF
2,4-D	94.0	75.6	4.048E5	3.256E5	-19.6	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	81.9	4.537E5	3.718E5	-18.1	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Analyzed:**	05/24/21 11:55

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052421-HB\05240000003.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	724879
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	92.1	2.913E6	2.821E6	-3.1	NA	±20	Average RF
2,4-D	94.0	87.1	6.682E5	6.189E5	-7.4	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	95.4	7.982E5	7.619E5	-4.6	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Analyzed:**	05/24/21 17:32

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052421-HB\05240000017.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	724879
		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	1.636E6	-2.8	NA	±20	Average RF
2,4-D	94.0	83.9	4.048E5	3.613E5	-10.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	85.0	4.537E5	3.854E5	-15.0	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Analyzed:**	05/24/21 17:32

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052421-HB\05240000017.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	724879
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	108	2.913E6	3.297E6	13.2	NA	±20	Average RF
2,4-D	94.0	98.8	6.682E5	7.021E5	5.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	101	7.982E5	8.036E5	0.7	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Analyzed:**	05/24/21 21:33

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052421-HB\05240000027.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	724879
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	95.1	1.684E6	1.683E6	0.0	NA	±20	Average RF
2,4-D	94.0	85.0	4.048E5	3.661E5	-9.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	86.9	4.537E5	3.941E5	-13.1	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2104780
Project:	GascoSiltronics: US Moorings	**Date Analyzed:**	05/24/21 21:33

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	5/6/2021
File ID:	J:\GC34\DATA\052421-HB\05240000027.D\	**Calibration ID:**	KC2100249
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	724879
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	111	2.913E6	3.409E6	17.0	NA	±20	Average RF
2,4-D	94.0	102	6.682E5	7.245E5	8.4	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	104	7.982E5	8.286E5	3.8	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC **Service Request:**K2104780
Project: GascoSiltronics: US Moorings

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**724879
Instrument ID:K-GC-34

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC34\DATA\052421-HB\05240000003.D\	Continuing Calibration Verification	KQ2109278-01	5/24/2021	11:55:25	
J:\GC34\DATA\052421-HB\05240000004.D\	Continuing Calibration Blank	KQ2109278-04	5/24/2021	12:19:32	
J:\GC34\DATA\052421-HB\05240000005.D\	Lab Control Sample	KQ2107592-03	5/24/2021	12:43:35	
J:\GC34\DATA\052421-HB\05240000006.D\	Method Blank	KQ2107592-04	5/24/2021	13:07:40	
J:\GC34\DATA\052421-HB\05240000007.D\	USMPDI-005SC-B-00-02-210502	K2104780-001	5/24/2021	13:31:48	
J:\GC34\DATA\052421-HB\05240000008.D\	USMPDI-005SC-B-02-05-210502	K2104780-002	5/24/2021	13:56:21	
J:\GC34\DATA\052421-HB\05240000009.D\	USMPDI-005SC-B-05-6.6-210502	K2104780-003	5/24/2021	14:20:29	
J:\GC34\DATA\052421-HB\05240000010.D\	USMPDI-008SC-B-00-02-210502	K2104780-004	5/24/2021	14:44:39	
J:\GC34\DATA\052421-HB\05240000011.D\	USMPDI-008SC-B-02-3.8-210502	K2104780-005	5/24/2021	15:08:46	
J:\GC34\DATA\052421-HB\05240000012.D\	USMPDI-010SC-B-00-02-210502	K2104780-006	5/24/2021	15:32:42	
J:\GC34\DATA\052421-HB\05240000013.D\	USMPDI-010SC-B-02-05-210502	K2104780-007	5/24/2021	15:56:39	
J:\GC34\DATA\052421-HB\05240000014.D\	USMPDI-010SC-B-05-07-210502	K2104780-008	5/24/2021	16:20:40	
J:\GC34\DATA\052421-HB\05240000015.D\	USMPDI-010SC-B-10-11.5-210502	K2104780-010	5/24/2021	16:44:33	
J:\GC34\DATA\052421-HB\05240000016.D\	USMPDI-1010SC-B-02-05-210502	K2104780-011	5/24/2021	17:08:30	
J:\GC34\DATA\052421-HB\05240000017.D\	Continuing Calibration Verification	KQ2109278-02	5/24/2021	17:32:31	
J:\GC34\DATA\052421-HB\05240000018.D\	Continuing Calibration Blank	KQ2109278-05	5/24/2021	17:56:29	
J:\GC34\DATA\052421-HB\05240000019.D\	USMPDI-010SC-B-07-10-210502	K2104780-009	5/24/2021	18:20:33	
J:\GC34\DATA\052421-HB\05240000020.D\	USMPDI-010SC-B-07-10-210502 MS	KQ2107592-01	5/24/2021	18:44:45	
J:\GC34\DATA\052421-HB\05240000021.D\	USMPDI-010SC-B-07-10-210502 DMS	KQ2107592-02	5/24/2021	19:08:51	
J:\GC34\DATA\052421-HB\05240000022.D\	USMPDI-019SC-B-00-02-210502	K2104780-012	5/24/2021	19:32:58	
J:\GC34\DATA\052421-HB\05240000023.D\	USMPDI-019SC-B-02-05-210502	K2104780-013	5/24/2021	19:57:01	
J:\GC34\DATA\052421-HB\05240000024.D\	USMPDI-019SC-B-05-07-210502	K2104780-014	5/24/2021	20:21:19	
J:\GC34\DATA\052421-HB\05240000025.D\	USMPDI-019SC-B-07-10-210502	K2104780-015	5/24/2021	20:45:08	
J:\GC34\DATA\052421-HB\05240000026.D\	USMPDI-019SC-B-10-11.6-210502	K2104780-016	5/24/2021	21:09:06	
J:\GC34\DATA\052421-HB\05240000027.D\	Continuing Calibration Verification	KQ2109278-03	5/24/2021	21:33:03	
J:\GC34\DATA\052421-HB\05240000028.D\	Continuing Calibration Blank	KQ2109278-06	5/24/2021	21:57:00	

Prep Summary Report

Client: Anchor QEA, LLC **Service Request:** K2104780
Project: GascoSiltronics: US Moorings
Sample Matrix: Sediment

Chlorinated Herbicides by GC

Prep Method: Method **Extraction Lot:** 378808
Analytical Method: 8151A **Extraction Date:** 05/14/21 13:55

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-005SC-B-00-02-210502	K2104780-001	5/2/21	5/3/21	30.4170 g	50 mL	64.0
USMPDI-005SC-B-02-05-210502	K2104780-002	5/2/21	5/3/21	30.0990 g	50 mL	60.0
USMPDI-005SC-B-05-6.6-210502	K2104780-003	5/2/21	5/3/21	30.3640 g	50 mL	61.9
USMPDI-008SC-B-00-02-210502	K2104780-004	5/2/21	5/3/21	30.2840 g	50 mL	49.3
USMPDI-008SC-B-02-3.8-210502	K2104780-005	5/2/21	5/3/21	30.6720 g	50 mL	57.8
USMPDI-010SC-B-00-02-210502	K2104780-006	5/2/21	5/3/21	30.6640 g	50 mL	44.4
USMPDI-010SC-B-02-05-210502	K2104780-007	5/2/21	5/3/21	30.8410 g	50 mL	55.4
USMPDI-010SC-B-05-07-210502	K2104780-008	5/2/21	5/3/21	30.9620 g	50 mL	54.1
USMPDI-010SC-B-07-10-210502	K2104780-009	5/2/21	5/3/21	30.0700 g	50 mL	59.4
USMPDI-010SC-B-10-11.5-210502	K2104780-010	5/2/21	5/3/21	30.8990 g	50 mL	58.7
USMPDI-1010SC-B-02-05-210502	K2104780-011	5/2/21	5/3/21	30.4570 g	50 mL	53.3
USMPDI-019SC-B-00-02-210502	K2104780-012	5/2/21	5/3/21	30.9670 g	50 mL	51.5
USMPDI-019SC-B-02-05-210502	K2104780-013	5/2/21	5/3/21	30.8180 g	50 mL	53.9
USMPDI-019SC-B-05-07-210502	K2104780-014	5/2/21	5/3/21	30.8810 g	50 mL	55.2
USMPDI-019SC-B-07-10-210502	K2104780-015	5/2/21	5/3/21	30.5810 g	50 mL	58.7
USMPDI-019SC-B-10-11.6-210502	K2104780-016	5/2/21	5/3/21	30.4560 g	50 mL	62.0
Matrix Spike	KQ2107592-01MS	5/2/21	5/3/21	30.3160 g	50 mL	59.4
Duplicate Matrix Spike	KQ2107592-02DMS	5/2/21	5/3/21	30.7800 g	50 mL	59.4
Lab Control Sample	KQ2107592-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2107592-04MB	NA	NA	30.9670 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:** 722553 **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
K2104775-004	Solids, Total	N/A		Sediment	52.40 Percent	31.5117 g	52.4 Percent	1					5/6/21 19:35:00	N	IV
K2104775-005	Solids, Total	N/A		Sediment	53.60 Percent	29.8196 g	53.6 Percent	1					5/6/21 19:35:00	N	IV
K2104775-006	Solids, Total	N/A		Sediment	57.40 Percent	31.8765 g	57.4 Percent	1					5/6/21 19:35:00	N	IV
K2104775-007	Solids, Total	N/A		Sediment	57.70 Percent	29.1293 g	57.7 Percent	1					5/6/21 19:35:00	N	IV
K2104775-008	Solids, Total	N/A		Sediment	45.70 Percent	29.3555 g	45.7 Percent	1					5/6/21 19:35:00	N	IV
K2104775-009	Solids, Total	N/A		Sediment	48.00 Percent	30.9735 g	48.0 Percent	1					5/6/21 19:35:00	N	IV
K2104775-010	Solids, Total	N/A		Sediment	55.30 Percent	28.3443 g	55.3 Percent	1					5/6/21 19:35:00	N	IV
K2104775-011	Solids, Total	N/A		Sediment	55.10 Percent	28.4662 g	55.1 Percent	1					5/6/21 19:35:00	N	IV
K2104775-012	Solids, Total	N/A		Sediment	57.70 Percent	25.0518 g	57.7 Percent	1					5/6/21 19:35:00	N	IV
K2104775-013	Solids, Total	N/A		Sediment	44.40 Percent	34.1139 g	44.4 Percent	1					5/6/21 19:35:00	N	IV
K2104775-014	Solids, Total	N/A		Sediment	50.80 Percent	31.1202 g	50.8 Percent	1					5/6/21 19:35:00	Y	IV
K2104775-015	Solids, Total	N/A		Sediment	54.70 Percent	30.4922 g	54.7 Percent	1					5/6/21 19:35:00	N	IV
K2104775-016	Solids, Total	N/A		Sediment	54.80 Percent	26.1353 g	54.8 Percent	1					5/6/21 19:35:00	N	IV
K2104775-017	Solids, Total	N/A		Sediment	56.60 Percent	30.7619 g	56.6 Percent	1					5/6/21 19:35:00	N	IV
K2104775-018	Solids, Total	N/A		Sediment	54.80 Percent	27.6941 g	54.8 Percent	1					5/6/21 19:35:00	N	IV
K2104780-001	Solids, Total	N/A		Sediment	64.00 Percent	31.3706 g	64.0 Percent	1					5/6/21 19:35:00	N	IV
K2104780-002	Solids, Total	N/A		Sediment	60.00 Percent	28.7169 g	60.0 Percent	1					5/6/21 19:35:00	N	IV
K2104780-003	Solids, Total	N/A		Sediment	61.90 Percent	33.1804 g	61.9 Percent	1					5/6/21 19:35:00	N	IV
K2104780-004	Solids, Total	N/A		Sediment	49.30 Percent	27.9765 g	49.3 Percent	1					5/6/21 19:35:00	N	IV
K2104780-005	Solids, Total	N/A		Sediment	57.80 Percent	29.2576 g	57.8 Percent	1					5/6/21 19:35:00	N	IV
KQ2107899-01	Solids, Total	MB		Sediment	0.00 Percent	52.1266 g	0.0 Percent	1					5/6/21 19:35:00	N	IV
KQ2107899-02	Solids, Total	DUP	K2104775-004	Sediment	53.70 Percent	29.5953 g	53.7 Percent	1				2	5/6/21 19:35:00	N	IV
KQ2107899-03	Solids, Total	DUP	K2104775-014	Sediment	50.50 Percent	29.4377 g	50.5 Percent	1				<1	5/6/21 19:35:00	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 #.: K210775, 4780 Method: SM 2540 G TS

Run: 722553

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

Sample Number		MB	4775-004	4775-004D	4775-005	4775-006	4775-007
Crucible Number		408	PETER	AUG	4	3	7G
SampleWeight		52.1266	31.5117	29.5953	29.8196	31.8765	29.1293
Tare Weight	Date	76.6194	46.5599	75.0896	52.6172	50.2582	56.0886
Tare + Dry Wt. (1)	5/7/2021	76.6138	63.0666	90.9586	68.5762	68.5527	72.9003
Tare + Dry Wt. (2)	5/7/2021	76.6147	63.0803	90.9718	68.5892	68.5617	72.9103
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	52.4%	53.7%	53.6%	57.4%	57.7%
Volatile Solids		-1630100.0%	381.8%	572.8%	429.4%	374.6%	433.4%

Sample Number		4775-008	4775-009	4775-010	4775-011	4775-012	4775-013
Crucible Number		MONTE	M1	16	6	9	17
Sample Weight		29.3555	30.9735	28.3443	28.4662	25.0518	34.1139
Tare Weight	Date	52.6331	57.5266	53.7631	48.7770	52.9533	51.6530
Tare + Dry Wt. (1)	5/7/2021	66.0321	72.3821	69.4203	64.4514	67.3956	66.7737
Tare + Dry Wt. (2)	5/7/2021	66.0533	72.4016	69.4465	64.4725	67.4065	66.7842
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		45.7%	48.0%	55.3%	55.1%	57.7%	44.4%
Volatile Solids		492.2%	486.7%	442.8%	410.8%	466.4%	441.4%

% 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 #.: K210775, 4780 Method: SM 2540 G TS

Run: 722553

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

Sample Number		4775-014	4775-014D	4775-015	4775-016	4775-017	4775-018
Crucible Number		2	8	7	5	NATO	762
SampleWeight		31.1202	29.4377	30.4922	26.1353	30.7619	27.6941
Tare Weight	Date	51.9274	49.7263	54.4679	48.5988	59.1406	75.0580
Tare + Dry Wt. (1)	5/7/2021	67.7250	64.5772	71.1325	62.9105	76.5306	90.2133
Tare + Dry Wt. (2)	5/7/2021	67.7312	64.5986	71.1521	62.9260	76.5444	90.2208
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		50.8%	50.5%	54.7%	54.8%	56.6%	54.8%
Volatile Solids		428.6%	434.4%	426.5%	439.2%	439.8%	595.0%

Sample Number		4780-001	4780-002	4780-003	4780-004	4780-005	
Crucible Number		24	PIE	BEN	3U	15	
Sample Weight		31.3706	28.7169	33.1804	27.9765	29.2576	
Tare Weight	Date	47.8527	51.2298	45.7149	57.2190	51.0875	
Tare + Dry Wt. (1)	5/7/2021	67.9143	68.4348	66.2474	70.9925	67.9798	
Tare + Dry Wt. (2)	5/7/2021	67.9289	68.4535	66.2683	71.0064	67.9959	
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		64.0%	60.0%	61.9%	49.3%	57.8%	#DIV/0!
Volatile Solids		338.4%	397.4%	322.4%	515.0%	402.1%	#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:	5/6/2021
Reviewed By:		Date:	5/10/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K210775, 4780 Method: SM 2540 G TS

Run: 722553

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

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	19:35	5/6/2021	6:05	5/7/2021
105	7:45	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 #.: K210775, 4780 Method: SM 2540 G TS

Run: 722553

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:		Date Reviewed:	5/10/21

Analytical Results Summary

Instrument Name: K-Balance-41 **Analyst:** BNETLING **Analysis Lot:** 722554 **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
K2104780-006	Solids, Total	N/A		Sediment	44.40 Percent	27.6379 g	44.4 Percent	1					5/7/21 17:45:00	N	IV
K2104780-007	Solids, Total	N/A		Sediment	55.40 Percent	29.4055 g	55.4 Percent	1					5/7/21 17:45:00	N	IV
K2104780-008	Solids, Total	N/A		Sediment	54.10 Percent	27.8113 g	54.1 Percent	1					5/7/21 17:45:00	N	IV
K2104780-009	Solids, Total	N/A		Sediment	59.40 Percent	28.4502 g	59.4 Percent	1					5/7/21 17:45:00	Y	IV
K2104780-010	Solids, Total	N/A		Sediment	58.70 Percent	31.5351 g	58.7 Percent	1					5/7/21 17:45:00	N	IV
K2104780-011	Solids, Total	N/A		Sediment	53.30 Percent	28.4475 g	53.3 Percent	1					5/7/21 17:45:00	N	IV
K2104780-012	Solids, Total	N/A		Sediment	51.50 Percent	28.8304 g	51.5 Percent	1					5/7/21 17:45:00	N	IV
K2104780-013	Solids, Total	N/A		Sediment	53.90 Percent	26.4334 g	53.9 Percent	1					5/7/21 17:45:00	N	IV
K2104780-014	Solids, Total	N/A		Sediment	55.20 Percent	27.2240 g	55.2 Percent	1					5/7/21 17:45:00	N	IV
K2104780-015	Solids, Total	N/A		Sediment	58.70 Percent	28.5305 g	58.7 Percent	1					5/7/21 17:45:00	N	IV
K2104780-016	Solids, Total	N/A		Sediment	62.00 Percent	26.8971 g	62.0 Percent	1					5/7/21 17:45:00	N	IV
K2104993-001	Solids, Total	N/A		Sediment	57.50 Percent	25.7517 g	57.5 Percent	1					5/7/21 17:45:00	N	IV
K2104993-002	Solids, Total	N/A		Sediment	55.60 Percent	26.2221 g	55.6 Percent	1					5/7/21 17:45:00	N	IV
K2104993-003	Solids, Total	N/A		Sediment	56.90 Percent	35.9898 g	56.9 Percent	1					5/7/21 17:45:00	N	IV
K2104993-004	Solids, Total	N/A		Sediment	50.60 Percent	26.5369 g	50.6 Percent	1					5/7/21 17:45:00	N	IV
K2104993-005	Solids, Total	N/A		Sediment	54.70 Percent	26.6523 g	54.7 Percent	1					5/7/21 17:45:00	N	IV
K2104993-006	Solids, Total	N/A		Sediment	55.30 Percent	26.8774 g	55.3 Percent	1					5/7/21 17:45:00	N	IV
K2104993-007	Solids, Total	N/A		Sediment	55.40 Percent	27.9668 g	55.4 Percent	1					5/7/21 17:45:00	N	IV
K2105001-001	Solids, Total	N/A		Sediment	55.20 Percent	27.5640 g	55.2 Percent	1					5/7/21 17:45:00	N	IV
K2105001-002	Solids, Total	N/A		Sediment	57.00 Percent	28.1329 g	57.0 Percent	1					5/7/21 17:45:00	N	IV
KQ2107895-01	Solids, Total	DUP	K2104780-009	Sediment	59.50 Percent	27.5991 g	59.5 Percent	1				<1	5/7/21 17:45:00	N	IV
KQ2107895-02	Solids, Total	DUP	K2104993-001	Sediment	49.10 Percent	27.4518 g	49.1 Percent	1				16	5/7/21 17:45:00	N	IV
KQ2107895-03	Solids, Total	MB		Sediment	0.00 Percent	51.1842 g	0.0 Percent	1					5/7/21 17:45:00	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 #.: K2104780, 5001, 4993 Method: SM 2540 G TS

Run: 722554

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

Sample Number		MB	4780-006	4780-007	4780-008	4780-009	4780-009D
Crucible Number		SIERRA	7G	NATO	19	3	CLARKE
SampleWeight		51.1842	27.6379	29.4055	27.8113	28.4502	27.5991
Tare Weight	Date	51.5758	56.0910	59.1377	49.8414	50.2639	53.2530
Tare + Dry Wt. (1)	5/10/2021	51.5721	68.3569	75.4295	64.9135	67.1929	69.7039
Tare + Dry Wt. (2)	5/10/2021	51.5712	68.3503	75.4157	64.8933	67.1700	69.6825
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	44.4%	55.4%	54.1%	59.4%	59.5%
Volatile Solids		-1121113.0%	557.5%	463.3%	431.1%	397.3%	424.1%

Sample Number		4780-010	4780-011	4780-012	4780-013	4780-014	4780-015
Crucible Number		11	BEN	FIRN	LINCOLN	8	25
Sample Weight		31.5351	28.4475	28.8304	26.4334	27.2240	28.5305
Tare Weight	Date	51.5162	45.7076	49.4166	52.2151	49.7259	51.3868
Tare + Dry Wt. (1)	5/10/2021	70.0468	60.8895	64.2803	66.4626	64.7688	68.1687
Tare + Dry Wt. (2)	5/10/2021	70.0364	60.8760	64.2640	66.4507	64.7597	68.1437
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		58.7%	53.3%	51.5%	53.9%	55.2%	58.7%
Volatile Solids		378.2%	401.3%	432.8%	466.8%	430.8%	406.7%

% 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:	5/7/2021
Reviewed By:	JC	Date:	5/10/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2104780, 5001, 4993 Method: SM 2540 G TS

Run: 722554

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

Sample Number		4780-016	5001-001	5001-002	4993-001	4993-001D	4993-002
Crucible Number		4	762	23	15	M1	18
SampleWeight		26.8971	27.5640	28.1329	25.7517	27.4518	26.2221
Tare Weight	Date	52.6203	75.0606	52.9495	51.0887	57.5270	50.6266
Tare + Dry Wt. (1)	5/10/2021	69.3175	90.2931	68.9978	65.9153	71.0367	65.2371
Tare + Dry Wt. (2)	5/10/2021	69.2926	90.2765	68.9830	65.8924	71.0193	65.2156
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		62.0%	55.2%	57.0%	57.5%	49.1%	55.6%
Volatile Solids		415.6%	593.3%	430.2%	445.1%	526.4%	447.0%

Sample Number		4993-003	4993-004	4993-005	4993-006	4993-007	
Crucible Number		3U	9	3D	408	16	
Sample Weight		35.9898	26.5369	26.6523	26.8774	27.9668	
Tare Weight	Date	57.2175	52.9516	57.1017	76.6191	53.7684	
Tare + Dry Wt. (1)	5/10/2021	77.7302	66.3936	71.7109	91.4928	69.2793	
Tare + Dry Wt. (2)	5/10/2021	77.7132	66.3693	71.6879	91.4734	69.2525	
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		56.9%	50.6%	54.7%	55.3%	55.4%	#DIV/0!
Volatile Solids		379.2%	494.6%	491.5%	615.8%	447.2%	#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:	5/7/2021
Reviewed By:		Date:	5/10/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2104780, 5001, 4993

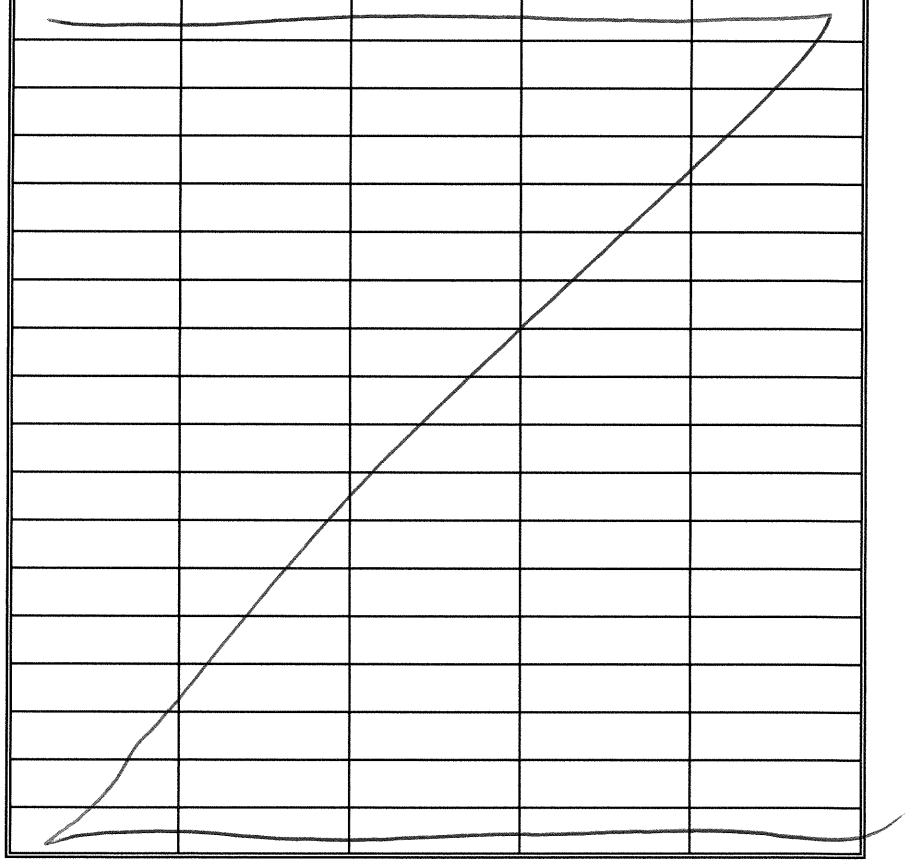
Method: SM 2540 G TS

Run: 722554

Analysis: Total Solids / Volatile Solids

Matrix: Soil/Solids

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	17:45	5/7/2021	8:20	5/10/2021
105	12:00	5/10/2021	13:05	5/10/2021



Analyzed By:	BN	Date Analyzed:	5/7/2021
Reviewed By:		Date Reviewed:	5/10/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2104780, 5001, 4993 Method: SM 2540 G TS

Run: 722554

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	9.9983	100.0%	5/7/2021
CCV2	199.9960	100.0%	CCV2	9.9981	100.0%	5/7/2021
CCV3	199.9964	100.0%	CCV3	9.9980	100.0%	5/10/2021
CCV4	199.9961	100.0%	CCV4	9.9980	100.0%	5/10/2021
CCV5	199.9959	100.0%	CCV5	9.9981	100.0%	5/10/2021
CCV6	199.9961	100.0%	CCV6	9.9984	100.0%	5/10/2021
~~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:	5/7/2021
Reviewed By:		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#: 378808
Team: Semivoa GC/GTRIGG
Number of Copies to make: 1

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: ~~5/6/21 14:07~~ 5.14.21 1355

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2104780-001	USMPDI-005SC-B-00-02-210502	.01	8151A/HERB		Sediment	30.4170g	50.00mL	
2	K2104780-002	USMPDI-005SC-B-02-05-210502	.01	8151A/HERB		Sediment	30.0990g	50.00mL	
3	K2104780-003	USMPDI-005SC-B-05-6.6-210502	.01	8151A/HERB		Sediment	30.3640g	50.00mL	
4	K2104780-004	USMPDI-008SC-B-00-02-210502	.01	8151A/HERB		Sediment	30.2840g	50.00mL	
5	K2104780-005	USMPDI-008SC-B-02-3.8-210502	.01	8151A/HERB		Sediment	30.6720g	50.00mL	
6	K2104780-006	USMPDI-010SC-B-00-02-210502	.01	8151A/HERB		Sediment	30.6640g	50.00mL	
7	K2104780-007	USMPDI-010SC-B-02-05-210502	.01	8151A/HERB		Sediment	30.8410g	50.00mL	
8	K2104780-008	USMPDI-010SC-B-05-07-210502	.01	8151A/HERB		Sediment	30.9620g	50.00mL	
9	K2104780-009	USMPDI-010SC-B-07-10-210502	.01	8151A/HERB		Sediment	30.0700g	50.00mL	
10	KQ2107592-01	K2104780-009 MS	.01	8151A/HERB		Solid	30.3160g	50.00mL	
11	KQ2107592-02	K2104780-009 DMS	.01	8151A/HERB		Solid	30.7800g	50.00mL	
12	K2104780-010	USMPDI-010SC-B-10-11.5-210502	.01	8151A/HERB		Sediment	30.8990g	50.00mL	
13	K2104780-011	USMPDI-1010SC-B-02-05-210502	.01	8151A/HERB		Sediment	30.4570g	50.00mL	
14	K2104780-012	USMPDI-019SC-B-00-02-210502	.01	8151A/HERB		Sediment	30.9670g	50.00mL	
15	K2104780-013	USMPDI-019SC-B-02-05-210502	.01	8151A/HERB		Sediment	30.8180g	50.00mL	
16	K2104780-014	USMPDI-019SC-B-05-07-210502	.01	8151A/HERB		Sediment	30.8810g	50.00mL	
17	K2104780-015	USMPDI-019SC-B-07-10-210502	.01	8151A/HERB		Sediment	30.5810g	50.00mL	
18	K2104780-016	USMPDI-019SC-B-10-11.6-210502	.01	8151A/HERB		Sediment	30.4560g	50.00mL	
19	KQ2107592-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	
20	KQ2107592-04	MB		8151A/HERB		Solid	30.9670g	50.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate Inventory ID 216337 Logbook Ref: Penta02-26I Expires On: 09/30/2021

K2104780-001	1,000.00µL	K2104780-002	1,000.00µL	K2104780-003	1,000.00µL	K2104780-004	1,000.00µL	K2104780-005	1,000.00µL	K2104780-006	1,000.00µL
K2104780-007	1,000.00µL	K2104780-008	1,000.00µL	K2104780-009	1,000.00µL	K2104780-010	1,000.00µL	K2104780-011	1,000.00µL	K2104780-012	1,000.00µL
K2104780-013	1,000.00µL	K2104780-014	1,000.00µL	K2104780-015	1,000.00µL	K2104780-016	1,000.00µL	KQ2107592-01	1,000.00µL	KQ2107592-02	1,000.00µL
KQ2107592-03	1,000.00µL	KQ2107592-04	1,000.00µL								

Name: 8151A 5-500ppm Herbicides matrix spike Inventory ID 217175 Logbook Ref: PENTA02-30I Expires On: 11/13/2021

KQ2107592-01	1,000.00µL	KQ2107592-02	1,000.00µL	KQ2107592-03	1,000.00µL

Preparation Information Benchsheet

Prep Run#: 378808
Team: Semivoa GC/GTRIGG

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 5/6/21 14:07

Preparation Steps

Step:	Weigh	Step:	Extraction 5.14.21 1355	Step:	Derivitization	Step:	Final Volume
Started:	~~5/6/21 14:07~~ 5.13.21 1500	Started:	~~5/20/21 19:05~~	Started:	5/21/21 10:30	Started:	5/21/21 16:35
Finished:	~~5/14/21 16:32~~ 5.13.21 1500	Finished:	5/20/21 20:35	Finished:	5/21/21 11:00	Finished:	5/21/21 16:35
By:	~~GTRIGG~~	By:	GTRIGG	By:	GTRIGG	By:	GTRIGG
Comments	RZIELINSKI	Comments		Comments		Comments	

05.23.21

Page 70 of 206

Comments: Huffpuff A1-B10

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: 5/21/21

Received By: _____ Date: 5-24-21

Extracts Examined (Yes) No

Preparation Information Benchsheet

Prep Run#: 378808 **Prep WorkFlow:** OrgHerbS(14) **Status:** Draft
Team: Semivoa GC/GTRIGG **Prep Method:** **Prep Date/Time:** 5/6/21 02:07 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 ul	Spike Amt ul
1	**K2104780-001**	USMPDI-005SC-B-00-02-210502	.01	√	8151A / HERB	Sediment	30.417	/	10	50	100	/
2	**K2104780-002**	USMPDI-005SC-B-02-05-210502	.01	√	8151A / HERB	Sediment	30.099	/				/
3	**K2104780-003**	USMPDI-005SC-B-05-6.6-210502	.01	√	8151A / HERB	Sediment	30.364	/				/
4	**K2104780-004**	USMPDI-008SC-B-00-02-210502	.01	√	8151A / HERB	Sediment	30.284	/				/
5	**K2104780-005**	USMPDI-008SC-B-02-3.8-210502	.01	√	8151A / HERB	Sediment	30.672	/				/
6	**K2104780-006**	USMPDI-010SC-B-00-02-210502	.01	√	8151A / HERB	Sediment	30.664	/				/
7	**K2104780-007**	USMPDI-010SC-B-02-05-210502	.01	√	8151A / HERB	Sediment	30.841	/				/
8	**K2104780-008**	USMPDI-010SC-B-05-07-210502	.01	√	8151A / HERB	Sediment	30.962	/				/
9	**K2104780-009**	USMPDI-010SC-B-07-10-210502	.01	√	8151A / HERB	Sediment	30.070	/				/
10	**KQ2107592-01**	K2104780-009 MS	.02	√	8151A / HERB	Solid	30.316	/				1000
11	**KQ2107592-02**	K2104780-009 DMS	.02	√	8151A / HERB	Solid	30.780	/				1060
12	**K2104780-010**	USMPDI-010SC-B-10-11.5-210502	.01	√	8151A / HERB	Sediment	30.899	/				/
13	**K2104780-011**	USMPDI-1010SC-B-02-05-210502	.01	√	8151A / HERB	Sediment	30.457	/				/
14	**K2104780-012**	USMPDI-019SC-B-00-02-210502	.01	√	8151A / HERB	Sediment	30.967	/				/
15	**K2104780-013**	USMPDI-019SC-B-02-05-210502	.01	√	8151A / HERB	Sediment	30.818	/				/
16	**K2104780-014**	USMPDI-019SC-B-05-07-210502	.01	√	8151A / HERB	Sediment	30.881	/				/
17	**K2104780-015**	USMPDI-019SC-B-07-10-210502	.01	√	8151A / HERB	Sediment	30.581	/				/
18	**K2104780-016**	USMPDI-019SC-B-10-11.6-210502	.01	√	8151A / HERB	Sediment	30.456	/				/
19	**KQ2107592-03**	LCS			8151A / HERB	Solid	30.000	/				1000
20	**KQ2107592-04**	MB			8151A / HERB	Solid	30.967	/				/

Comments:

Surrogate ID: Penta02-26I Acetone 5ppm 1000ul XP 9-30-21 Spike ID: Penta02-30I 5-500ppm 1000ul XP-11-13-21

Witnessed By: [signature]

Analyst: [signature] Assisted By: [signature]

Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # 4780 **Work Group #** 7592

Acidified Sulfate Lot # D203-875 Matrix Sand Lot # 201468

Ethyl Ether Lot # EA001 Hydrochloric Acid Lot # 58242

Wrist Action Shaker Start (time/date/initial): 1355 5/14/21 CA

Wrist Action Shaker Stop (time/date/initial): 1500 5/14/21 CA

N-Evap (time/date/initial): 1315 5/20/21 CA N-Evap Thermometer ID: K Sim 004

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

Saponification Start (time/date/initial): 1400 5/20/21 CA 37% KOH Lot # D203-80V

Saponification Stop (time/date/initial): 1500 5/20/21 CA

Extraction Start (time/date/initial): 1905 5/20/21 CA Sulfuric Acid Lot # D203-97K

Extraction Stop (time/date/initial): 2035 5/20/21 CA

Derivatization Start (time/date/initial): 1030 5/21/21 CA Diazomethane Lot # D203-445

Derivatization Stop (time/date/initial): 1100 5/21/21 CA

Pipette (5 mL) Lot # 08420647

Solvent Exchange to Iso-Octane (time/date/initial): 1115 5/21/21 CA

Iso-Octane Lot # D2155-US N-Evap Thermometer ID: K Sim 004

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

Pipette (1 mL) Lot # HH136

Vial: Red Vial Storage: Hufflpuff A1-B10

Archive Storage: Freaking Pickles

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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000007.D\
Lab ID: K2104780-001
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 13:31:48
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000007.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 13:31:48	**Vial:**	7
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-001	**Raw Units:**	ppb

Bottle ID:	K2104780-001.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	9.69	62599077	29289109	78.421	64.560	78	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)	12.15 -0.04	11.76	3070714	1540314	1.054	0.915	2.7U	2.4U	3.7 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	12 U	Y

Prep Amount:	30.4170 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	64.00

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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 13:31:48 Operator: TAP
Sample : K2104780-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:02:50 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 : Wed May 12 09:45:39 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	62599077	29289109	78.421	64.560	
		Target Compounds							
1)	m	Dalapon	5.630f	5.227	488694	581128	0.477	1.045	#
3)	m	Dicamba	10.333f	9.847f	595876	1048099	0.230	0.713	#
4)	m	MCPP	0.000	9.970	0	6374288	N.D. d	3220.829	
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d	
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	
8)	m	2,4,5-TP ...	12.150f	11.760	3070714	1540314	1.054	0.915	
9)	m	2,4,5-T	12.530f	12.133	6259567	1158946	2.899	0.933	#
10)	m	2,4-DB	13.047	12.710f	2115794	112848	9.622	0.853	#
11)	m	Dinoseb	0.000	13.000f	0	4093606	N.D.	3.575	#

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

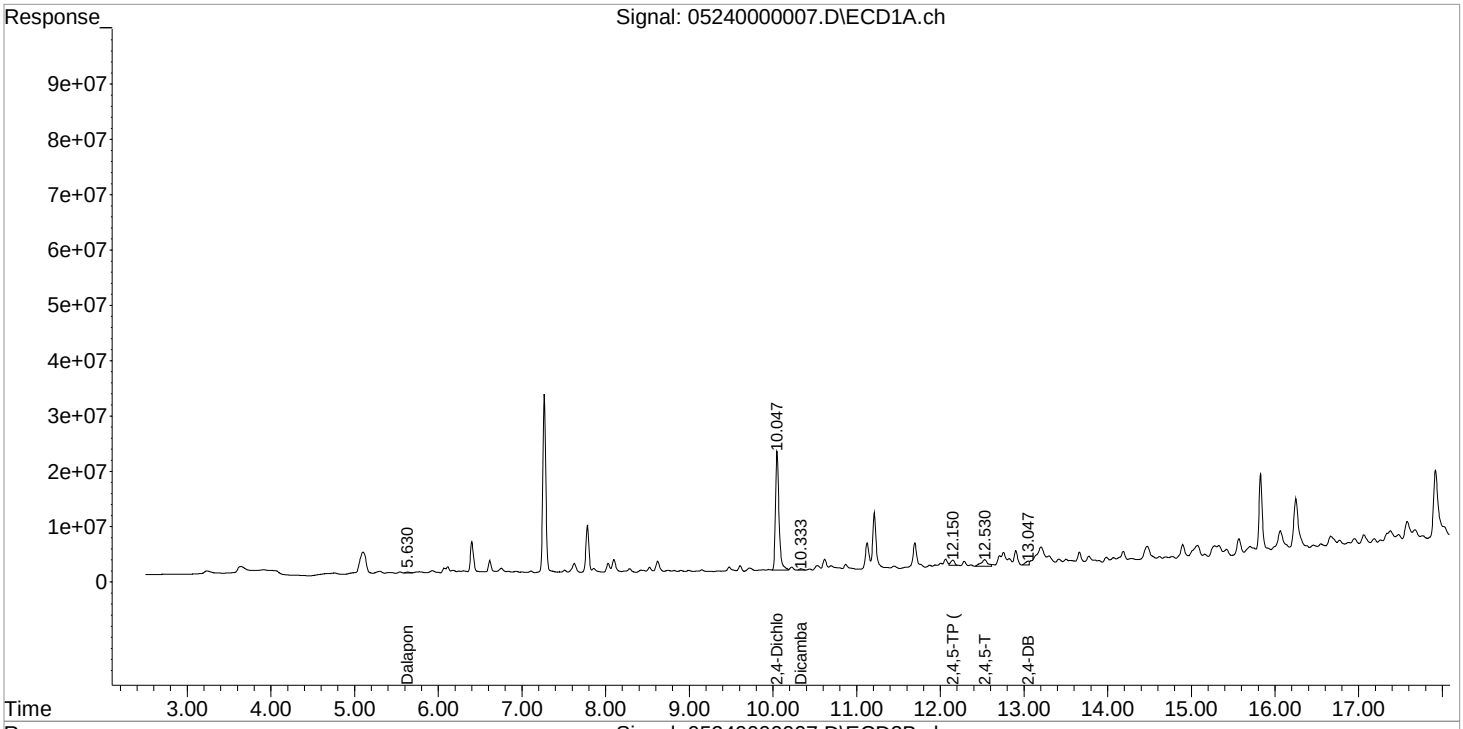
Quantitation Report (QT Reviewed)

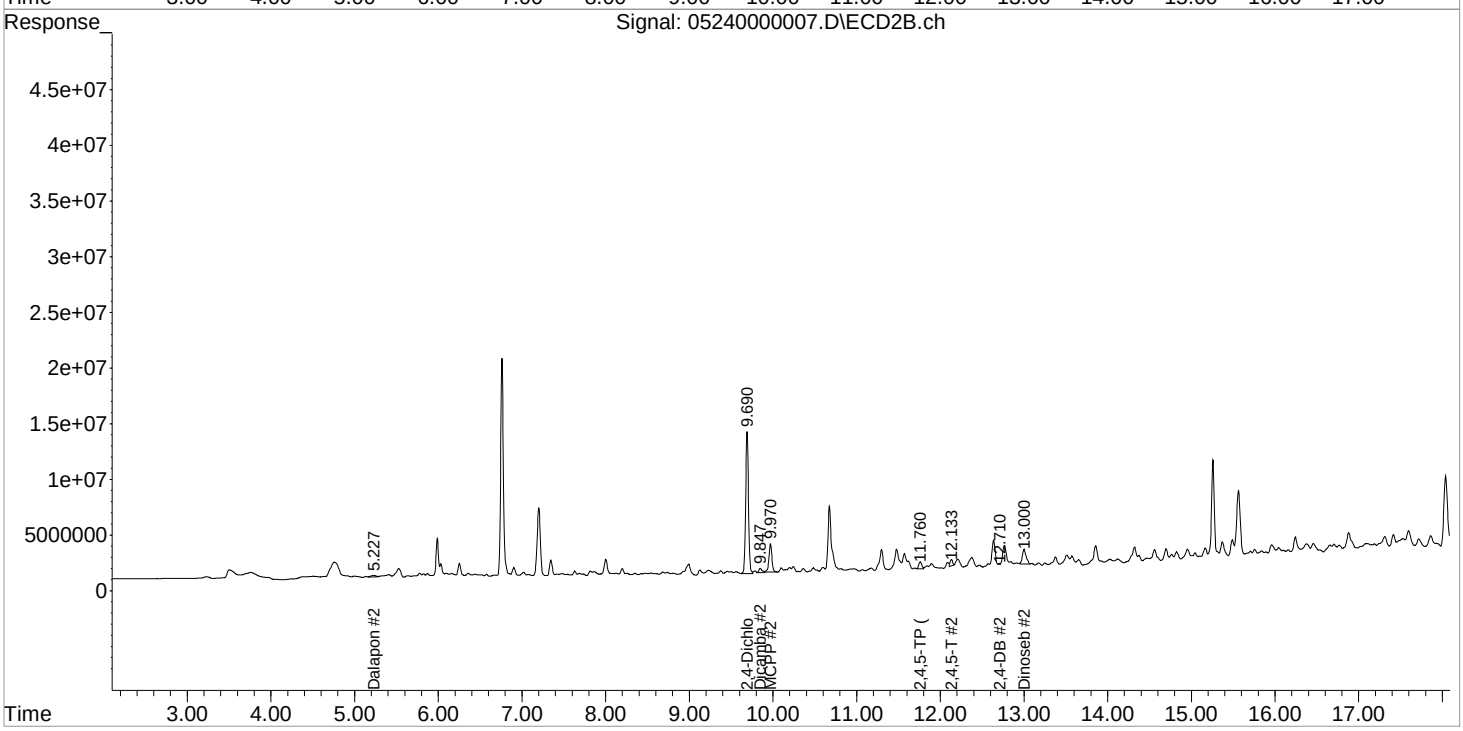
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 13:31:48 Operator: TAP
Sample : K2104780-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:02:50 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000008.D\
Lab ID: K2104780-002
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 13:56:21
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000008.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 13:56:21	**Vial:**	8
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-002	**Raw Units:**	ppb

Bottle ID:	K2104780-002.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	9.69	71589524	35206111	89.684	77.603	90	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)	12.15 -0.04	11.76	1657122	961578	0.569	0.571	1.6U	1.6U	4.0 U	Y
2,4-D	0.00	10.92 +0.02	0	396263	0.000	0.979	0U	2.7U	13 U	Y

Prep Amount:	30.0990 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	60.00

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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd 4W 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 13:56:21 Operator: TAP
Sample : K2104780-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:03:09 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 : Wed May 12 09:45:39 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	71589524	35206111	89.684	77.603	
		Target Compounds							
1)	m	Dalapon	5.633f	5.227	814669	504259	0.795	0.907	
3)	m	Dicamba	10.230f	9.847f	12274617	1793509	4.746	1.220	#
4)	m	MCPP	0.000	9.970	0	11307368	N.D.	6293.275	#
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	10.920	0	396263	N.D.	0.979	#
8)	m	2,4,5-TP ...	12.150f	11.763	1657122	961578	0.569	0.571	
9)	m	2,4,5-T	12.537f	12.133	8415473	1668860	3.898	1.343	#
10)	m	2,4-DB	13.053	12.637f	3761579	6009629	17.106	45.446	#
11)	m	Dinoseb	0.000	12.997f	0	3105058	N.D.	2.712	#

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

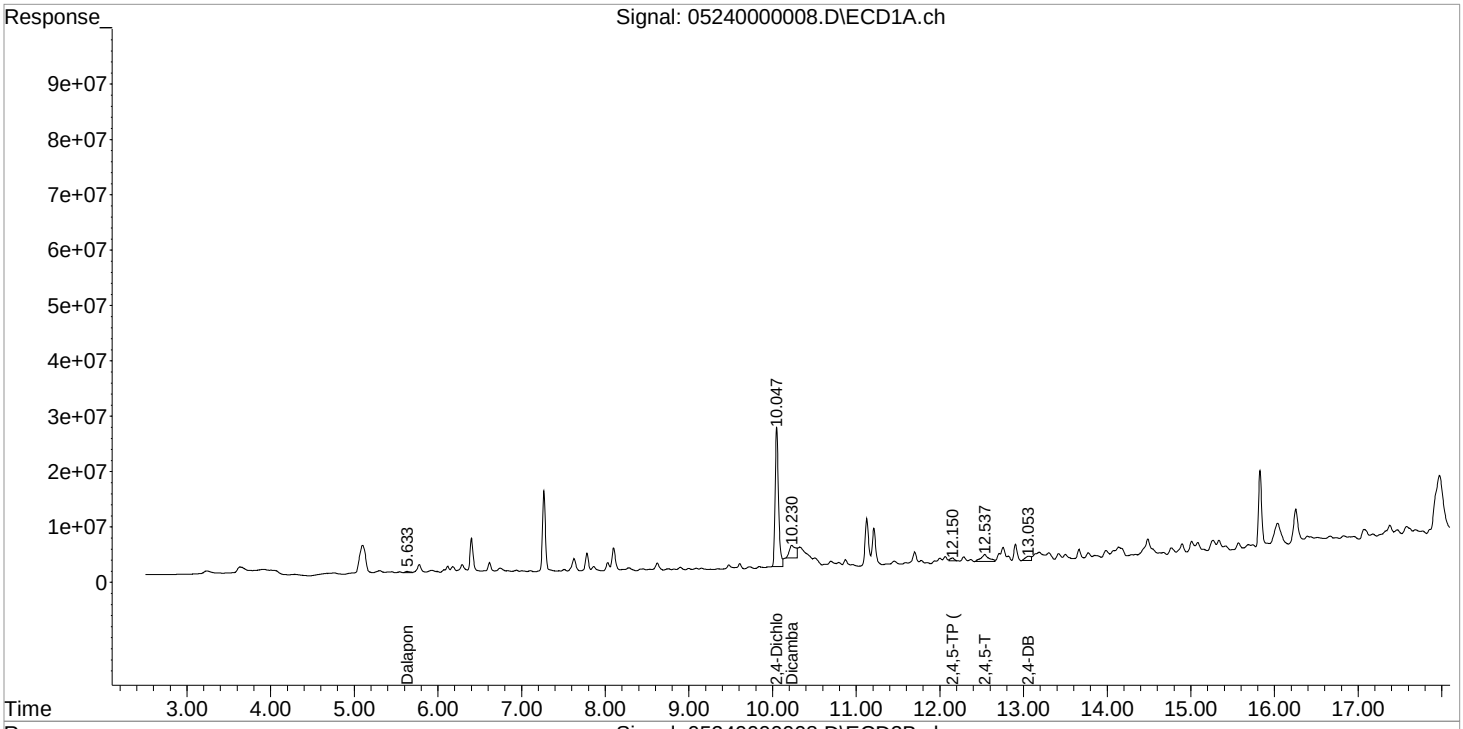
Quantitation Report (QT Reviewed)

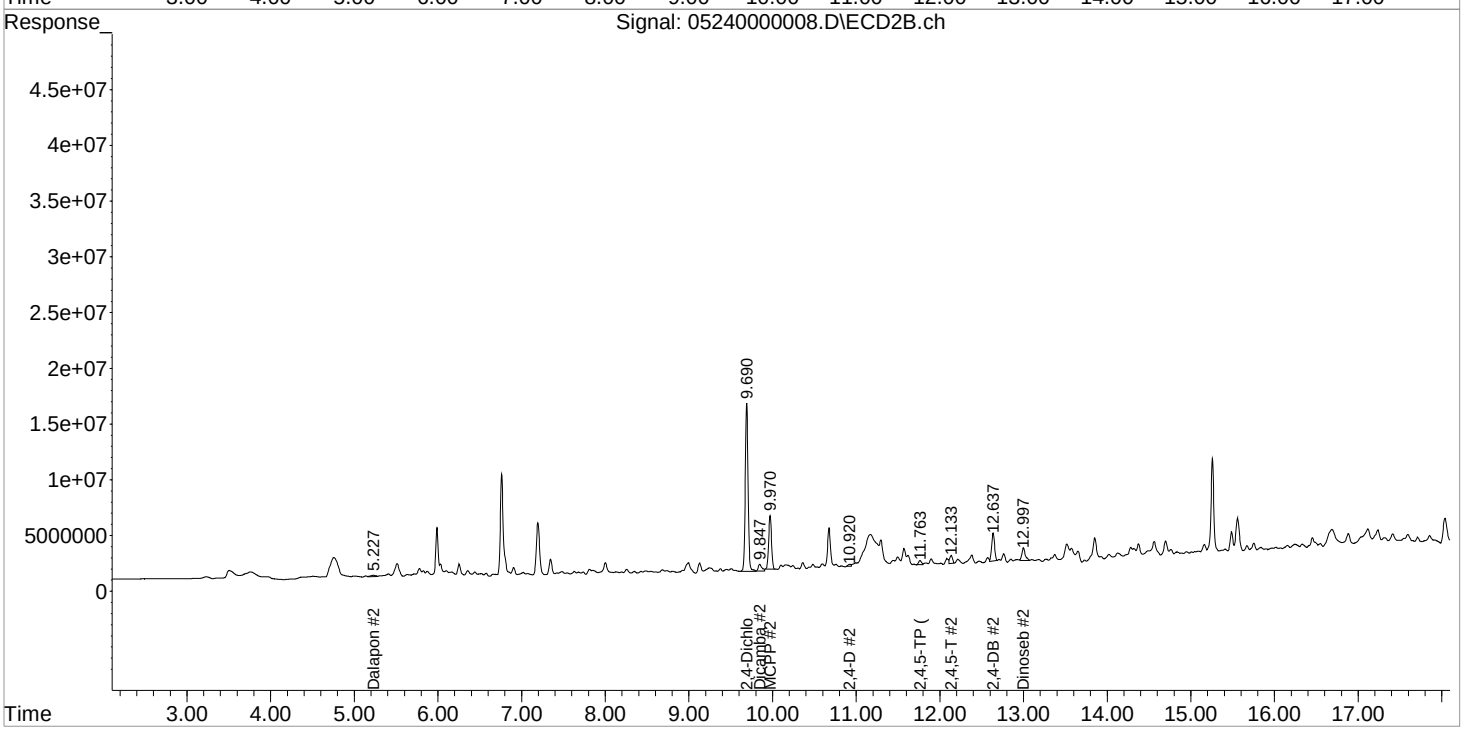
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 13:56:21 Operator: TAP
Sample : K2104780-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:03:09 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000009.D\
Lab ID: K2104780-003
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 14:20:29
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000009.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 14:20:29	**Vial:**	9
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-003	**Raw Units:**	ppb

Bottle ID:	K2104780-003.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	9.69	59782878	29565811	74.893	65.170	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	11.76	0	777736	0.000	0.462	0U	1.2U	3.9 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	13 U	Y

Prep Amount:	30.3640 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	61.90

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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd 4W 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 14:20:29 Operator: TAP
Sample : K2104780-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:03:26 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 : Wed May 12 09:45:39 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	59782878	29565811	74.893	65.170	
		Target Compounds							
1)	m	Dalapon	5.633f	5.233	985036	696377	0.961	1.253	#
3)	m	Dicamba	10.327f	9.847f	4319824	1782668	1.670	1.213	#
4)	m	MCPP	0.000	9.970	0	11012759	N.D.	6109.785	#
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	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	11.760	0	777736	N.D.	0.462	#
9)	m	2,4,5-T	12.533f	12.137	3644334	1281363	1.688	1.031	#
10)	m	2,4-DB	13.063	12.637f	3509792	4716240	15.961	35.665	#
11)	m	Dinoseb	0.000	12.997f	0	2290674	N.D.	2.000	#

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

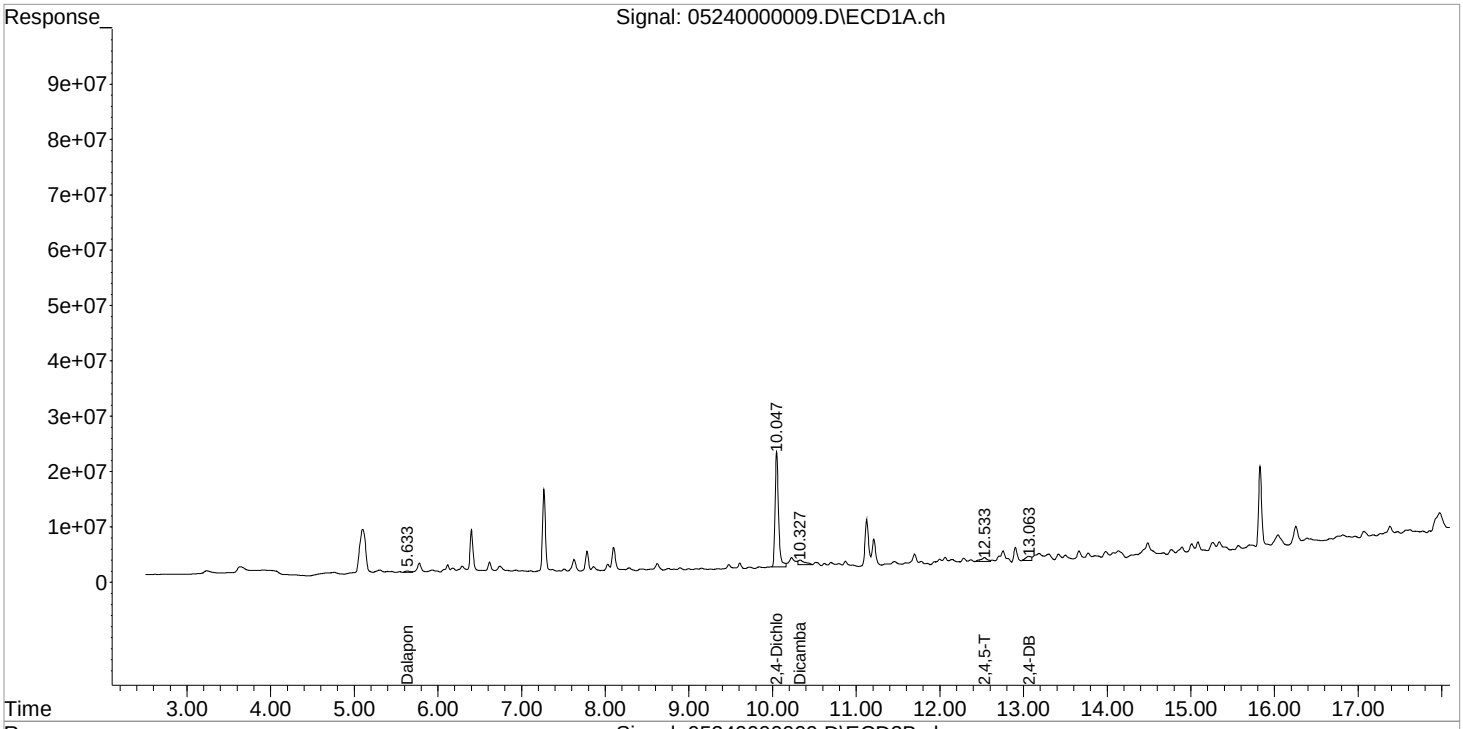
Quantitation Report (QT Reviewed)

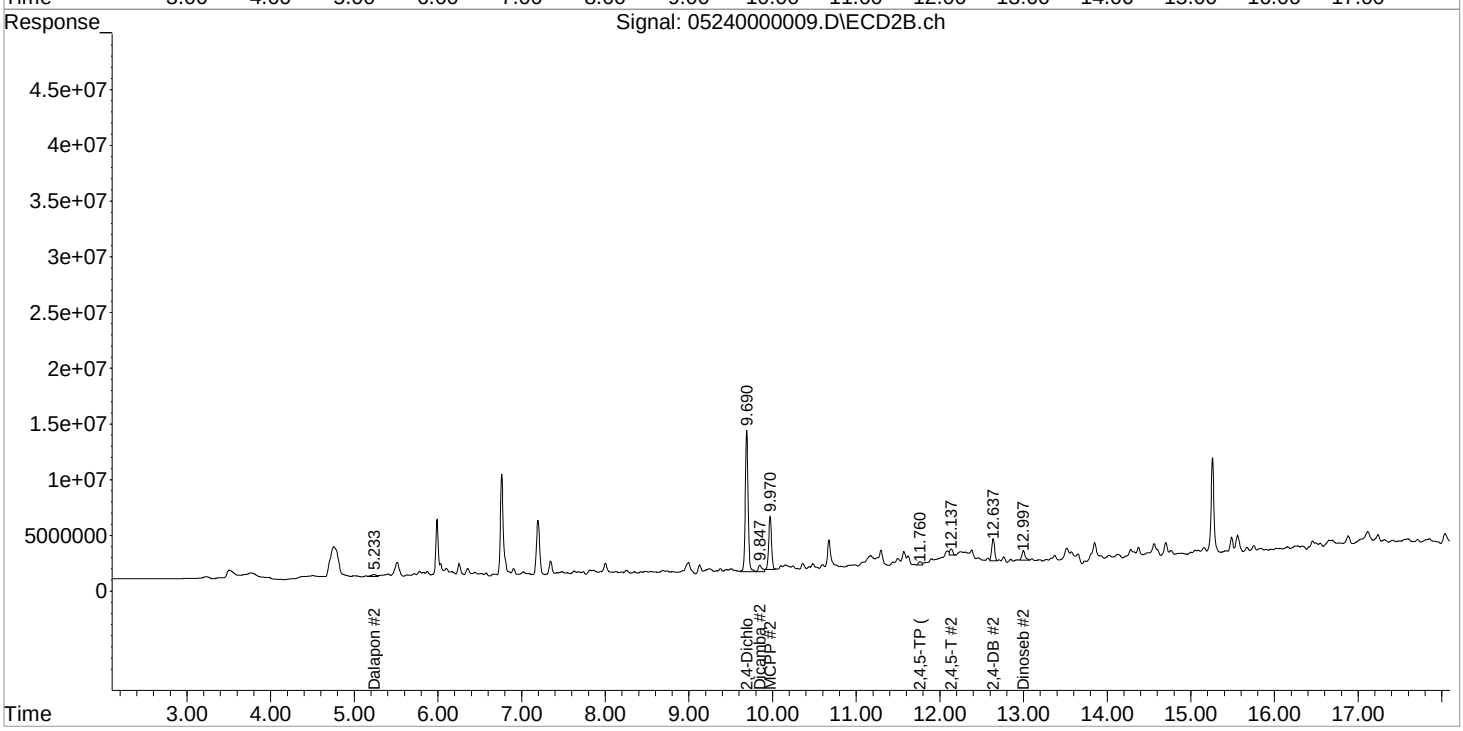
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 14:20:29 Operator: TAP
Sample : K2104780-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:03:26 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000010.D\
Lab ID: K2104780-004
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 14:44:39
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000010.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 14:44:39	**Vial:**	10
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-004	**Raw Units:**	ppb

Bottle ID:	K2104780-004.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	9.69	49241600	23095244	61.687	50.908	62	51	51	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	12.14 -0.05	11.76	904332	312140	0.310	0.185	1.0U	0.62U	4.9 U	i	Y
2,4-D		0.00	10.91 +0.01	0	360399	0.000	0.890	0U	3.0U	16 U		Y

Prep Amount:	30.2840 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	49.30

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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000010.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 14:44:39 Operator: TAP
Sample : K2104780-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:03:43 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 : Wed May 12 09:45:39 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	49241600	23095244	61.687	50.908
	Target Compounds						
1) m	Dalapon	5.540f	5.177f	383163	48485	0.374	0.087 #
3) m	Dicamba	10.330f	9.843f	512826	1065475	0.198	0.725 #
4) m	MCPP	0.000	9.970	0	8552801	N.D.	4577.661 #
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7) m	2,4-D	0.000	10.913	0	360399	N.D.	0.890 #
8) m	2,4,5-TP ...	12.140f	11.757	904332	312140	0.310	0.185 #
9) m	2,4,5-T	12.527f	0.000	1631218	0	0.756	N.D. #
10) m	2,4-DB	13.060	12.633f	2894611	3330826	13.164	25.189 #
11) m	Dinoseb	14.307	12.993f	3560876	2313202	1.832	2.020

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

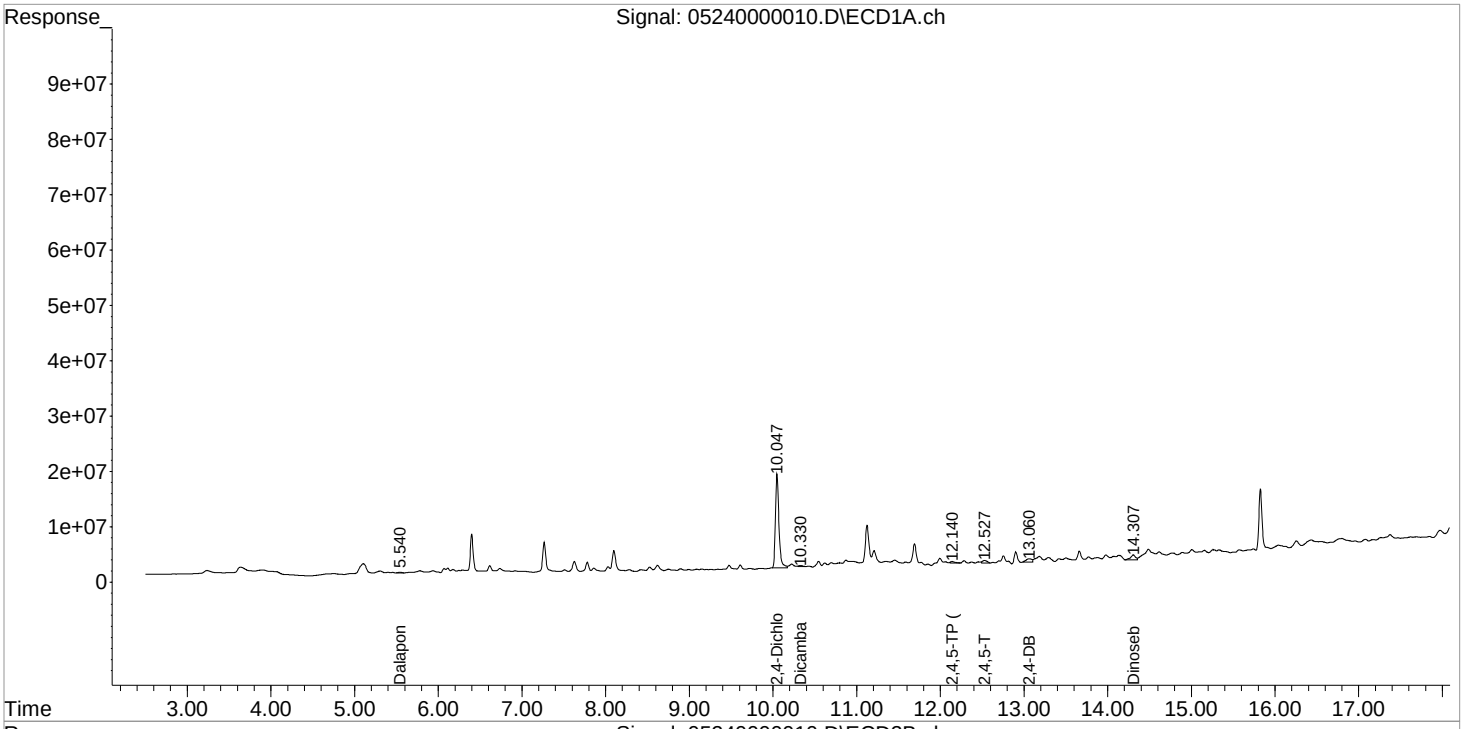
Quantitation Report (QT Reviewed)

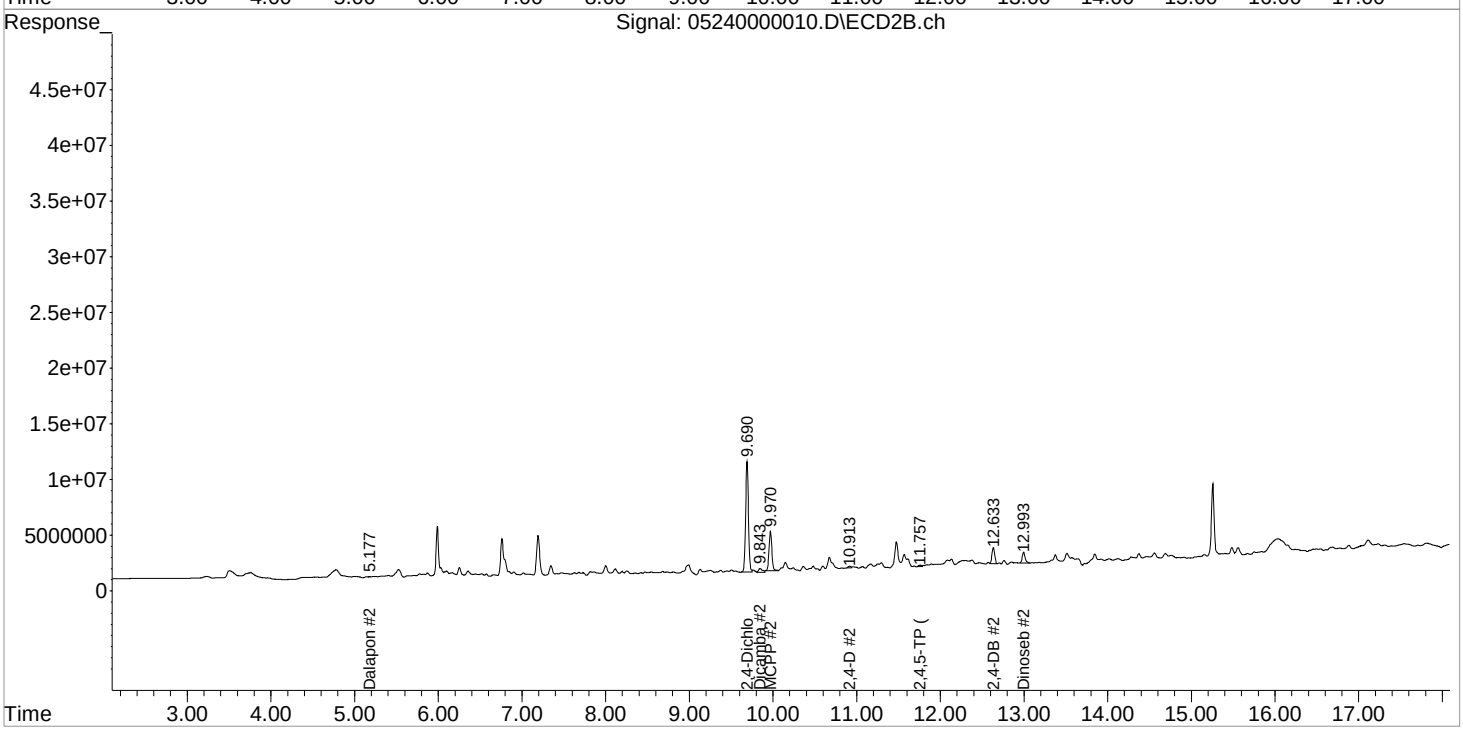
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000010.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 14:44:39 Operator: TAP
Sample : K2104780-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:03:43 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000011.D\
Lab ID: K2104780-005
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 15:08:46
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000011.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 15:08:46	**Vial:**	11
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-005	**Raw Units:**	ppb

Bottle ID:	K2104780-005.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	9.69	67730397	29355266	84.849	64.706	85	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)	WRT	12.14	-0.05	11.76	1824074	686393	0.626	0.408	1.8U	1.2U	4.1 U	i	Y
2,4-D		0.00		10.90	0	660815	0.000	1.633	0U	4.6U	14 U		Y

Prep Amount:	30.6720 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	57.80

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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd 4W 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000011.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 15:08:46 Operator: TAP
Sample : K2104780-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:03:59 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 : Wed May 12 09:45:39 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	67730397	29355266	84.849	64.706	
		Target Compounds							
1)	m	Dalapon	5.630f	5.227	562032	156004	0.548	0.281	#
3)	m	Dicamba	10.330f	9.843f	758466	1077793	0.293	0.733	#
4)	m	MCPP	0.000	9.967	0	10996267	N.D. d	6099.513	
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d	
7)	m	2,4-D	0.000	10.903	0	660815	N.D.	1.633	#
8)	m	2,4,5-TP ...	12.140f	11.760	1824074	686393	0.626	0.408	#
9)	m	2,4,5-T	12.527f	12.130	2916660	1826596	1.351	1.470	
10)	m	2,4-DB	13.050	12.633f	3439115	5462326	15.640	41.308	#
11)	m	Dinoseb	0.000	12.993f	0	3480802	N.D.	3.040	#

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

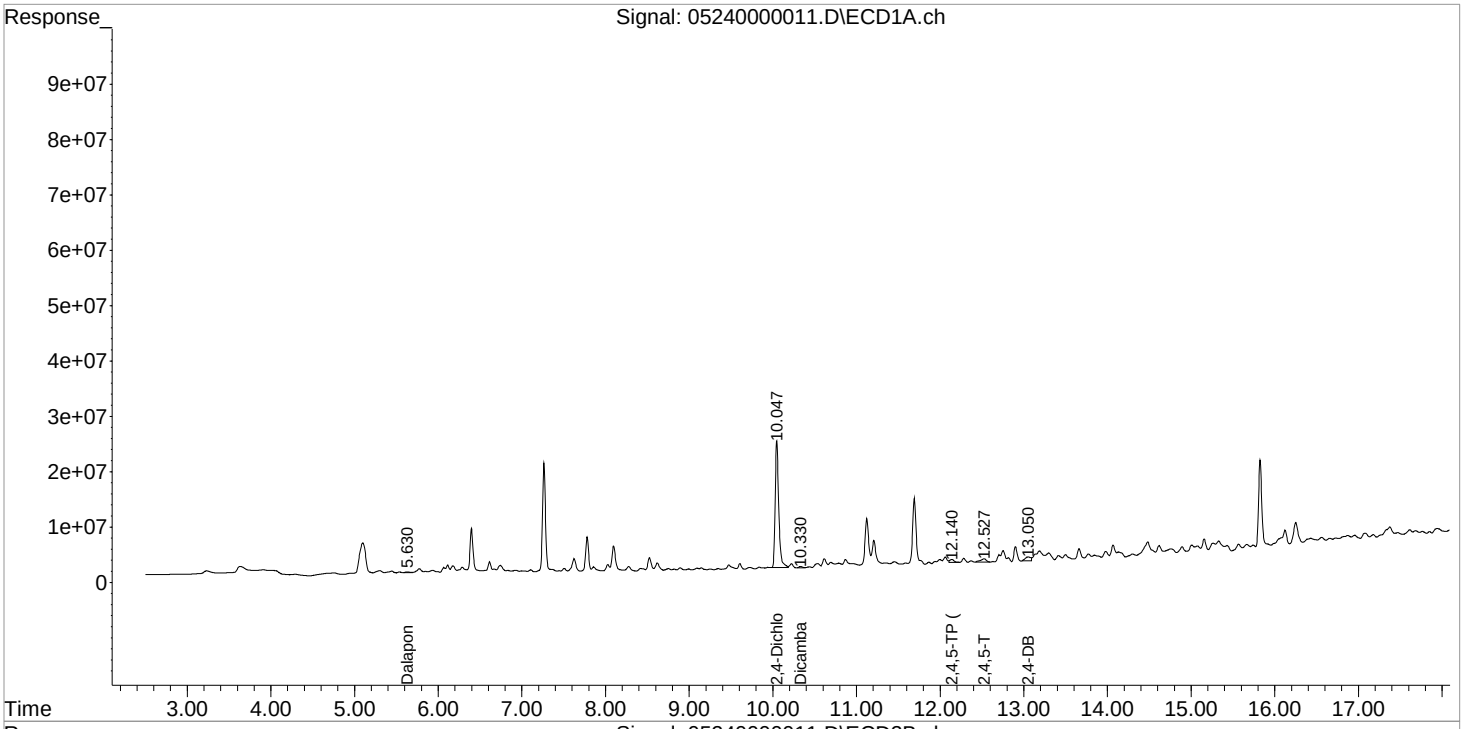
Quantitation Report (QT Reviewed)

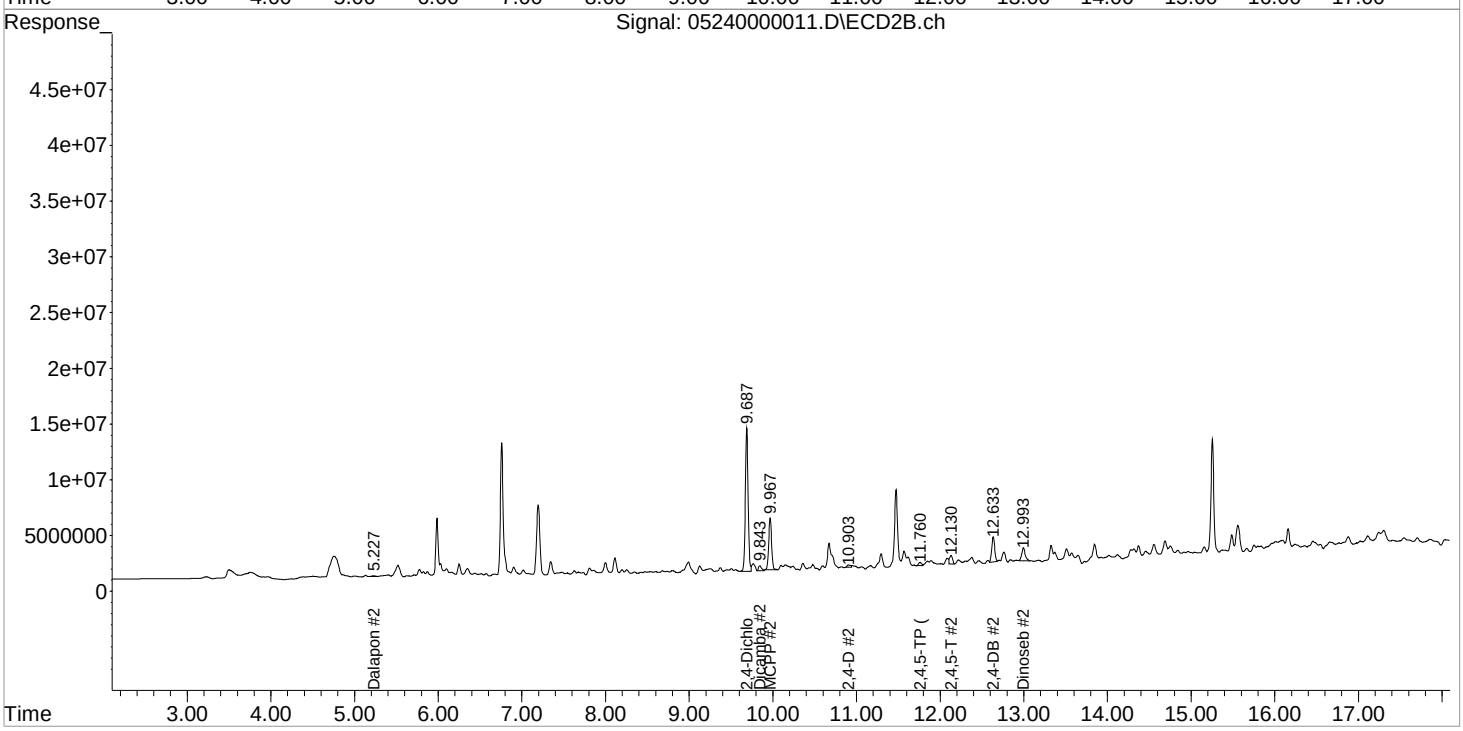
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000011.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 15:08:46 Operator: TAP
Sample : K2104780-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:03:59 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000012.D\
Lab ID: K2104780-006
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 15:32:42
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000012.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 15:32:42	**Vial:**	12
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-006	**Raw Units:**	ppb

Bottle ID:	K2104780-006.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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 -0.01	9.69	53785432	26131845	67.380	57.601	67	58	58	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 12.14 -0.05	11.76	949994	341381	0.326	0.203	1.2U	0.75U	5.3 U	i	Y
2,4-D	0.00	10.91 +0.01	0	612015	0.000	1.512	0U	5.6U	17 U		Y

Prep Amount:	30.6640 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	44.40

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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000012.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 15:32:42 Operator: TAP
Sample : K2104780-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:04:23 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 : Wed May 12 09:45:39 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	53785432	26131845	67.380	57.601
		Target Compounds						
1)	m	Dalapon	5.630f	5.227	1051273	534843	1.026	0.962
3)	m	Dicamba	10.327f	9.843f	615682	1480198	0.238	1.007 #
4)	m	MCPP	0.000	9.967	0	10566238	N.D.	5831.680 #
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7)	m	2,4-D	0.000	10.913	0	612015	N.D.	1.512 #
8)	m	2,4,5-TP ...	12.140f	11.757	949994	341381	0.326	0.203 #
9)	m	2,4,5-T	12.527f	12.130	2000767	1411772	0.927	1.136
10)	m	2,4-DB	13.073	12.630f	3948421	4068749	17.956	30.769 #
11)	m	Dinoseb	14.300	12.993f	2723215	1705910	1.401	1.490

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

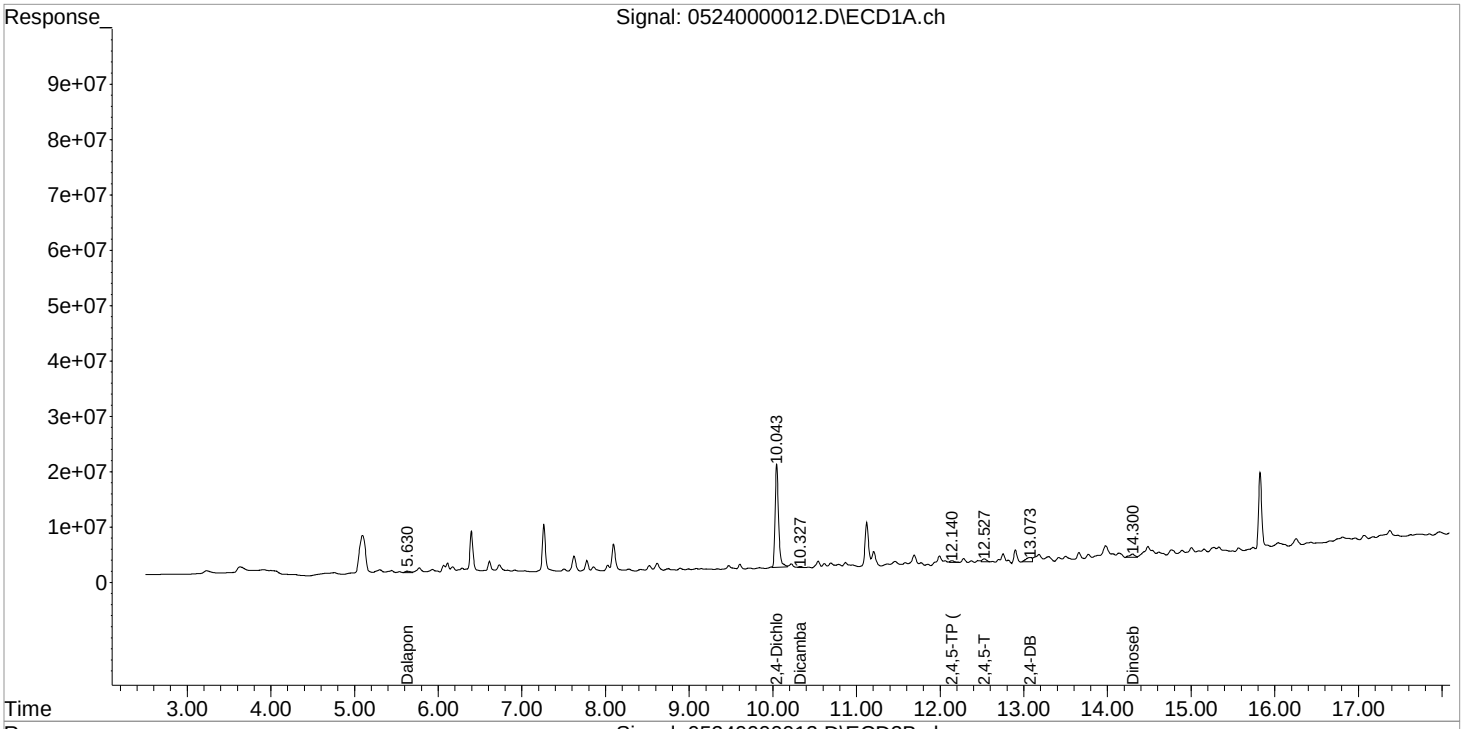
Quantitation Report (QT Reviewed)

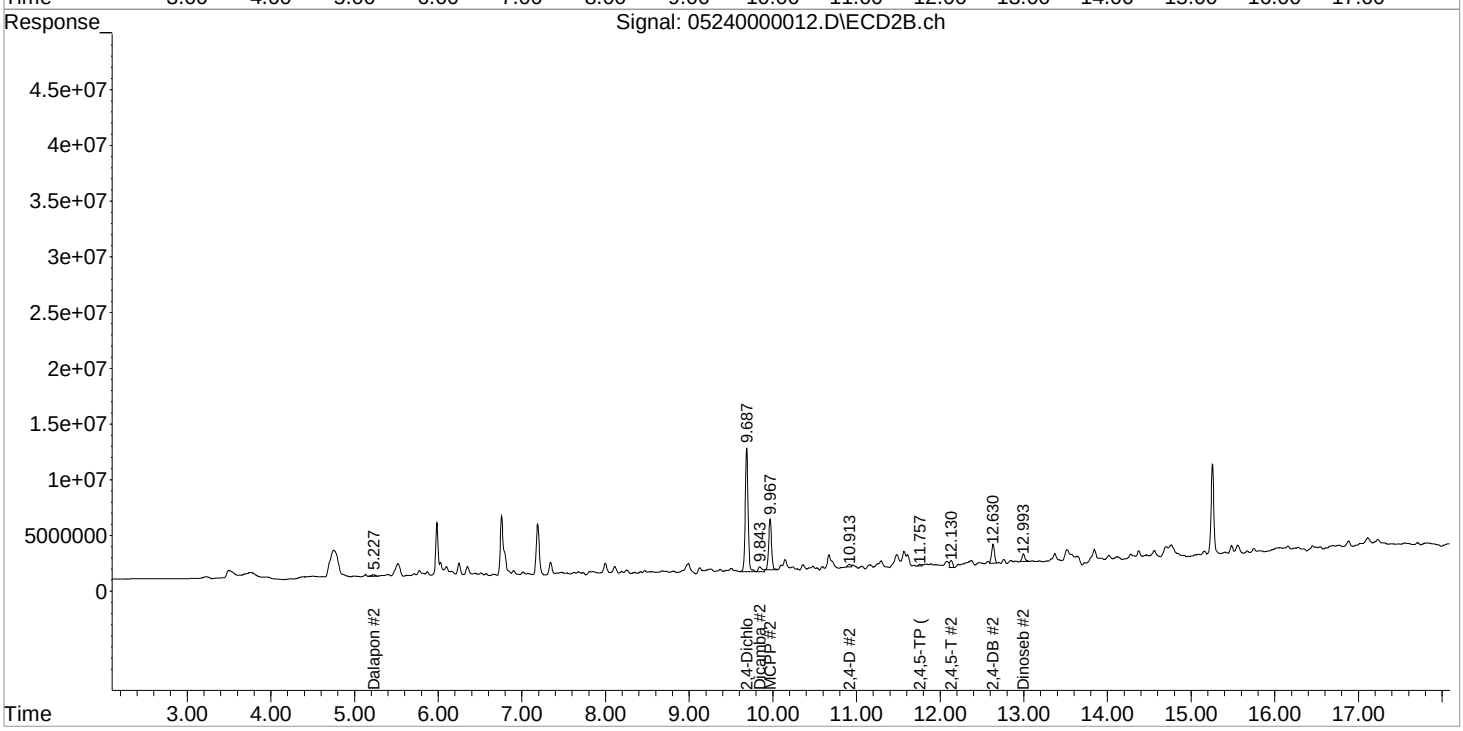
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000012.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 15:32:42 Operator: TAP
Sample : K2104780-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:04:23 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000013.D\
Lab ID: K2104780-007
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 15:56:39
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000013.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 15:56:39	**Vial:**	13
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-007	**Raw Units:**	ppb

Bottle ID:	K2104780-007.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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 -0.01	9.69	61005317	28937556	76.424	63.785	76	64	64	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc		Rpt?
2,4,5-TP (Silvex)	WRT 12.14 -0.05	11.76	2112196	693799	0.725	0.412	2.1U	1.2U	4.3 U	i	Y
2,4-D	0.00	10.91 +0.01	0	1800204	0.000	4.447	0U	13U	14 U		Y

Prep Amount:	30.8410 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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd 4W 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000013.D Vial: 11
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 15:56:39 Operator: TAP
Sample : K2104780-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:04:42 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 : Wed May 12 09:45:39 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	61005317	28937556	76.424	63.785
		Target Compounds						
1)	m	Dalapon	5.627f	5.227	956667	610776	0.933	1.099
3)	m	Dicamba	10.330f	9.843f	756371	1791913	0.292	1.219 #
4)	m	MCPP	0.000	9.967	0	11363818	N.D.	6328.433 #
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7)	m	2,4-D	0.000	10.913	0	1800204	N.D.	4.447 #
8)	m	2,4,5-TP ...	12.140f	11.760	2112196	693799	0.725	0.412 #
9)	m	2,4,5-T	12.450f	12.130	551060	1954480	0.255	1.573 #
10)	m	2,4-DB	13.050	12.630f	2246996	5144119	10.219	38.901 #
11)	m	Dinoseb	0.000	12.993f	0	3470768	N.D.	3.031 #

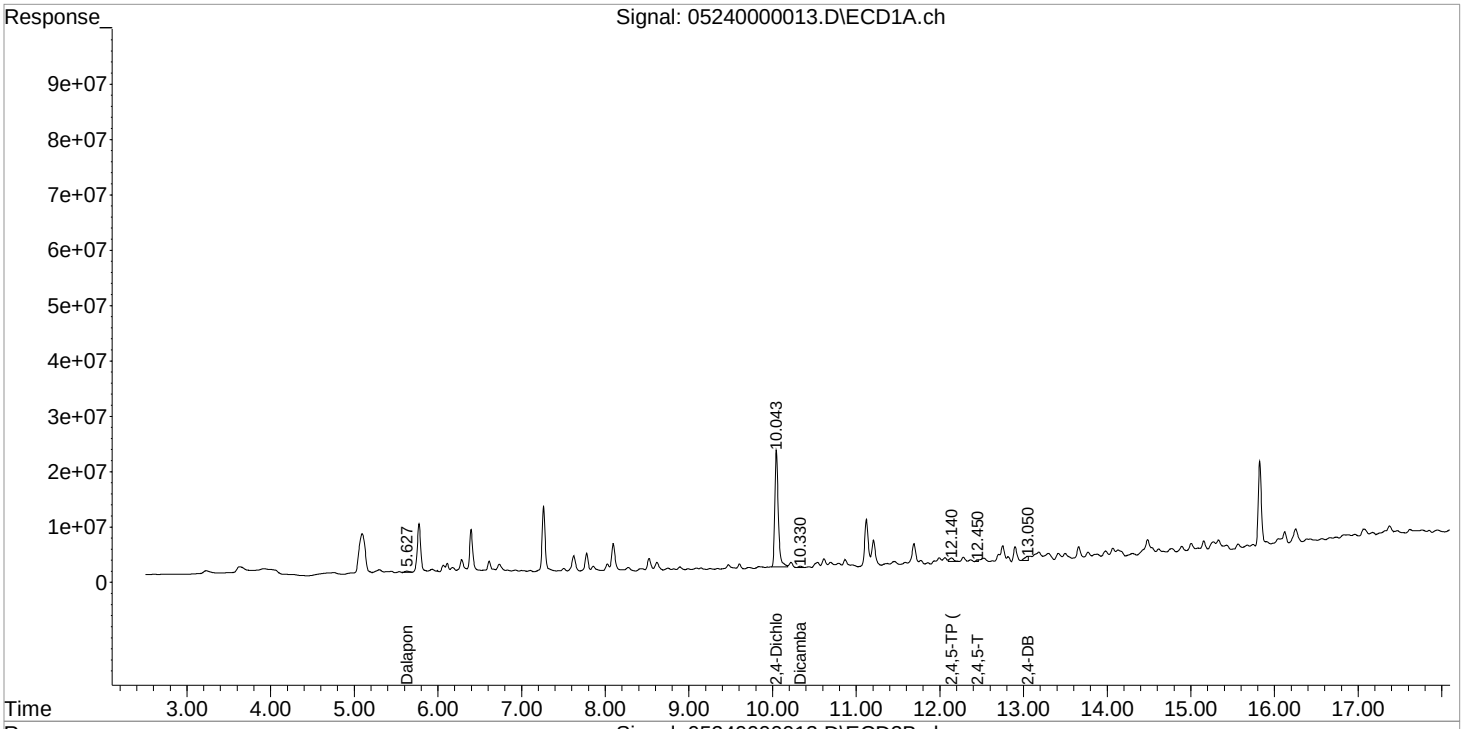
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

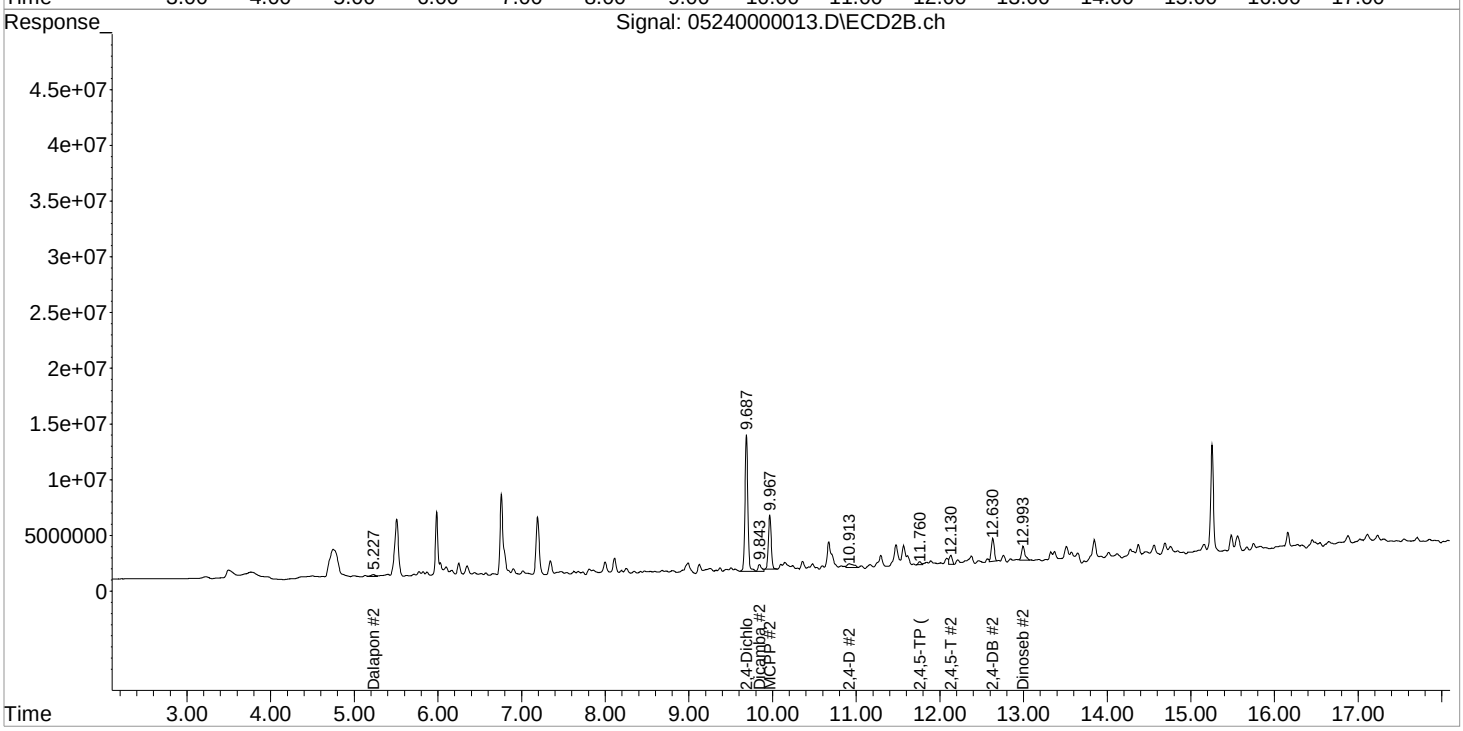
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000013.D Vial: 11
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 15:56:39 Operator: TAP
Sample : K2104780-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:04:42 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000014.D\
Lab ID: K2104780-008
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 16:20:40
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000014.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 16:20:40	**Vial:**	14
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-008	**Raw Units:**	ppb

Bottle ID:	K2104780-008.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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 -0.01	9.69	64177723	29334320	80.399	64.660	80	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)	12.20 +0.01	11.74 -0.02	1102304	899429	0.378	0.534	1.1U	1.6U	4.3 U	Y
2,4-D	11.27	10.90	2082273	618498	3.116	1.528	9.3U	4.6U	14 U	Y

Prep Amount:	30.9620 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	54.10

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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000014.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 16:20:40 Operator: TAP
Sample : K2104780-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:05:19 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 : Wed May 12 09:45:39 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	64177723	29334320	80.399	64.660
		Target Compounds						
1)	m	Dalapon	5.537f	0.000	355782	0	0.347	N.D. #
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D.
4)	m	MCPP	0.000	9.967	0	1789204	N.D. d	365.123
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	11.270	10.897	2082273	618498	3.116	1.528m#
8)	m	2,4,5-TP ...	12.197	11.743	1102304	899429	0.378	0.534 #
9)	m	2,4,5-T	12.507	12.123f	2678907	2160890	1.241	1.739 #
10)	m	2,4-DB	13.053	12.710f	1230728	170943	5.597	1.293 #
11)	m	Dinoseb	14.303	12.997f	4237780	2501502	2.180	2.185

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

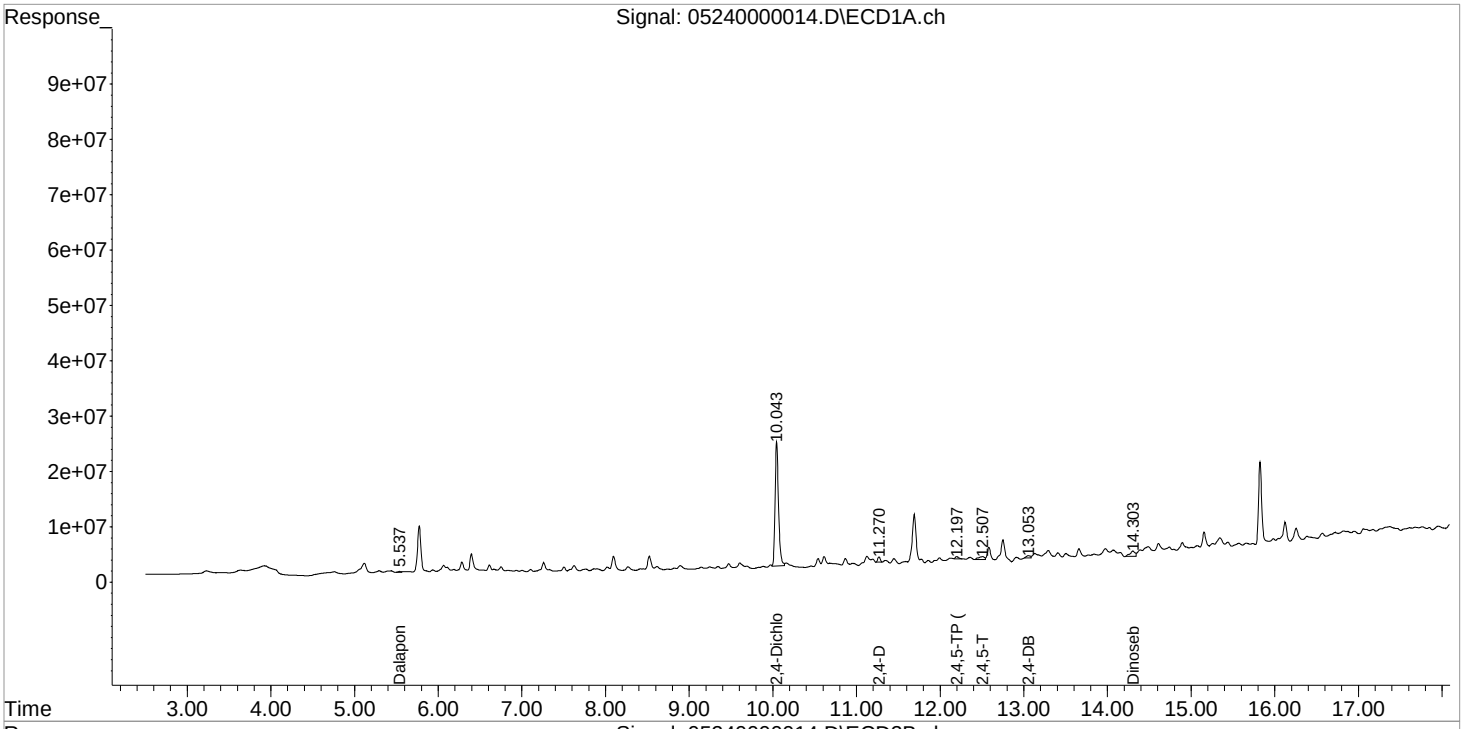
Quantitation Report (QT Reviewed)

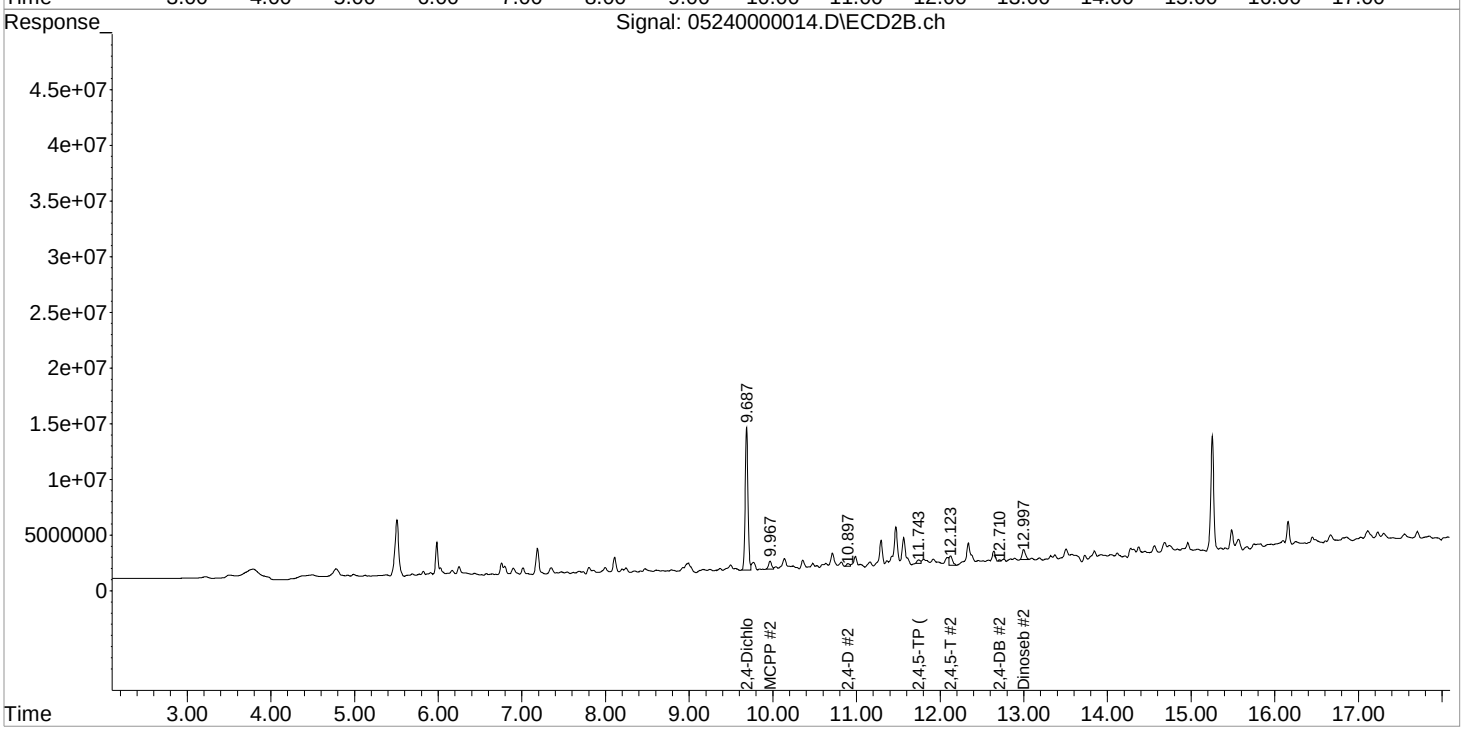
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000014.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 16:20:40 Operator: TAP
Sample : K2104780-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:05:19 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 : Wed May 12 09:45:39 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



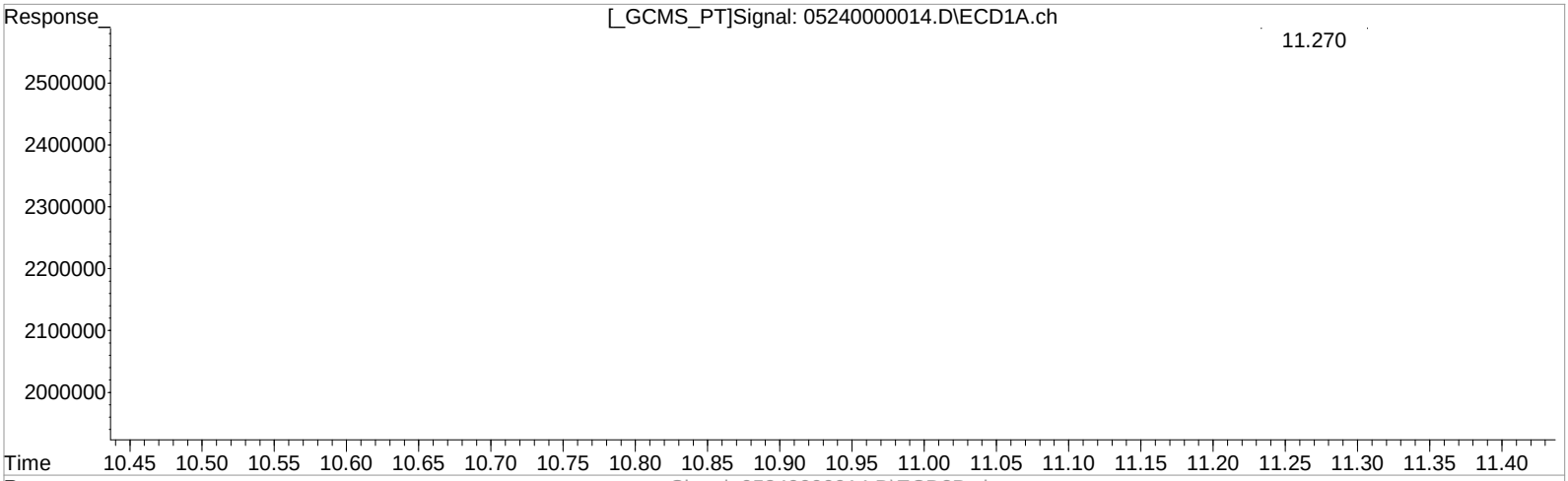


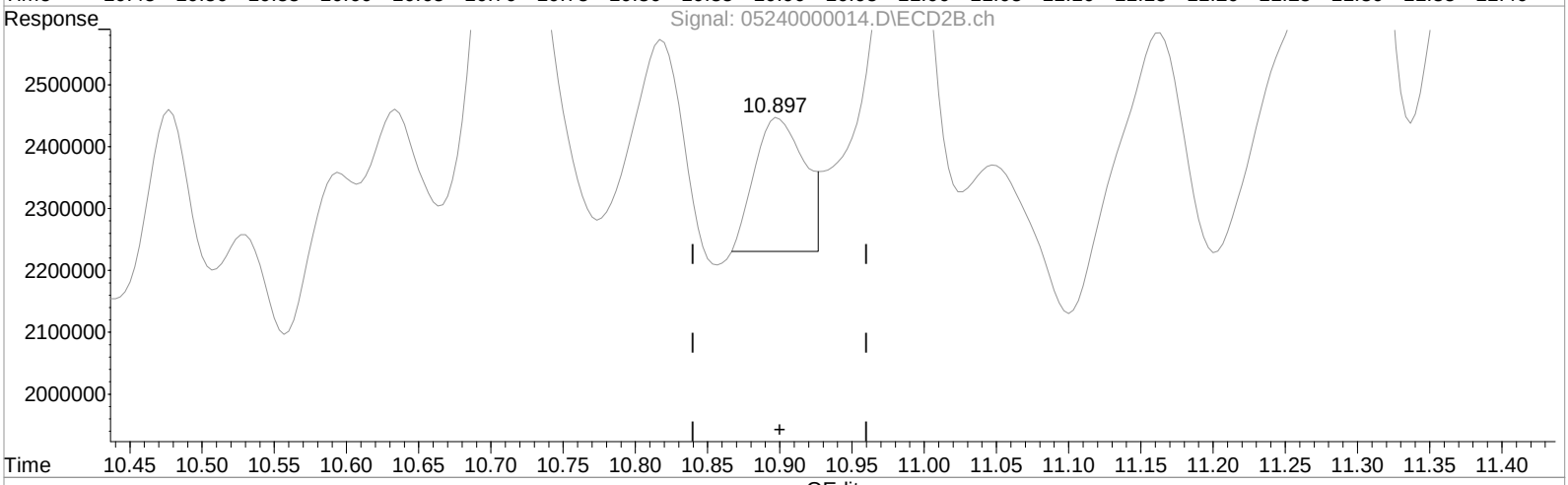
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000014.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 16:20:40 Operator: TAP
Sample : K2104780-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:15:49 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 : Wed May 12 09:45:39 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)

11.270min 3.116 ppb

response 2082273

Manual Integration:

Before

05/25/21

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

10.897min 1.319 ppb

response 534000

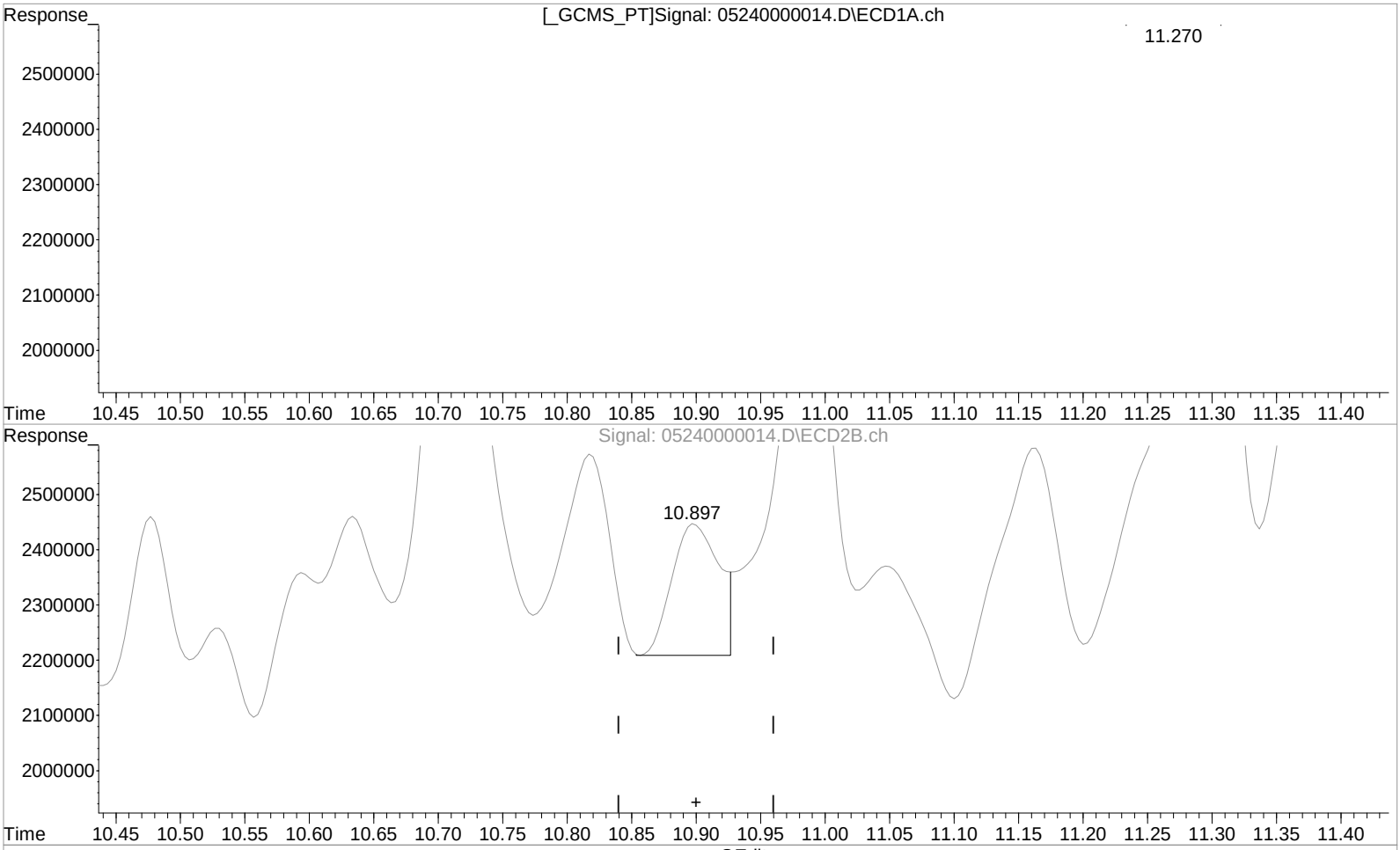
(+) = Expected Retention Time

1st TP 05/25/21
2nd 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000014.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 16:20:40 Operator: TAP
Sample : K2104780-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:15:49 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 : Wed May 12 09:45:39 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)

11.270min 3.116 ppb

response 2082273

Manual Integration:

After

Baseline/Shoulder

05/25/21

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

10.897min 1.528 ppb m

response 618498

(+) = Expected Retention Time

1st TP 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000019.D\
Lab ID: K2104780-009
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 18:20:33
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000019.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 18:20:33	**Vial:**	15
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-009	**Raw Units:**	ppb

Bottle ID:	K2104780-009.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	71954107	30182703	90.140	66.530	90	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	11.76	0	642084	0.000	0.381	0U	1.1U	4.1 U	Y
2,4-D	0.00	10.90 +0.01	0	2340943	0.000	5.783	0U	16J	13 U	Y

Prep Amount:	30.0700 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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000019.D Vial: 15
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 18:20:33 Operator: TAP
Sample : K2104780-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:54:48 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 : Wed May 12 09:45:39 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	71954107	30182703	90.140	66.530	#
		Target Compounds							
1)	m	Dalapon	5.630f	5.230	610767	631824	0.596	1.137	#
3)	m	Dicamba	10.330f	9.843f	609216	1138292	0.236	0.775	#
4)	m	MCPP	0.000	9.970	0	14297061	N.D.	8155.330	#
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d	
7)	m	2,4-D	0.000	10.903	0	2340943	N.D.	5.783	#
8)	m	2,4,5-TP ...	0.000	11.760	0	642084	N.D.	0.381	#
9)	m	2,4,5-T	12.527f	12.133	3095617	2128168	1.434	1.713	
10)	m	2,4-DB	13.050	12.637f	3530971	5690052	16.058	43.030	#
11)	m	Dinoseb	14.303	12.997f	3078550	3205499	1.584	2.799	#

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

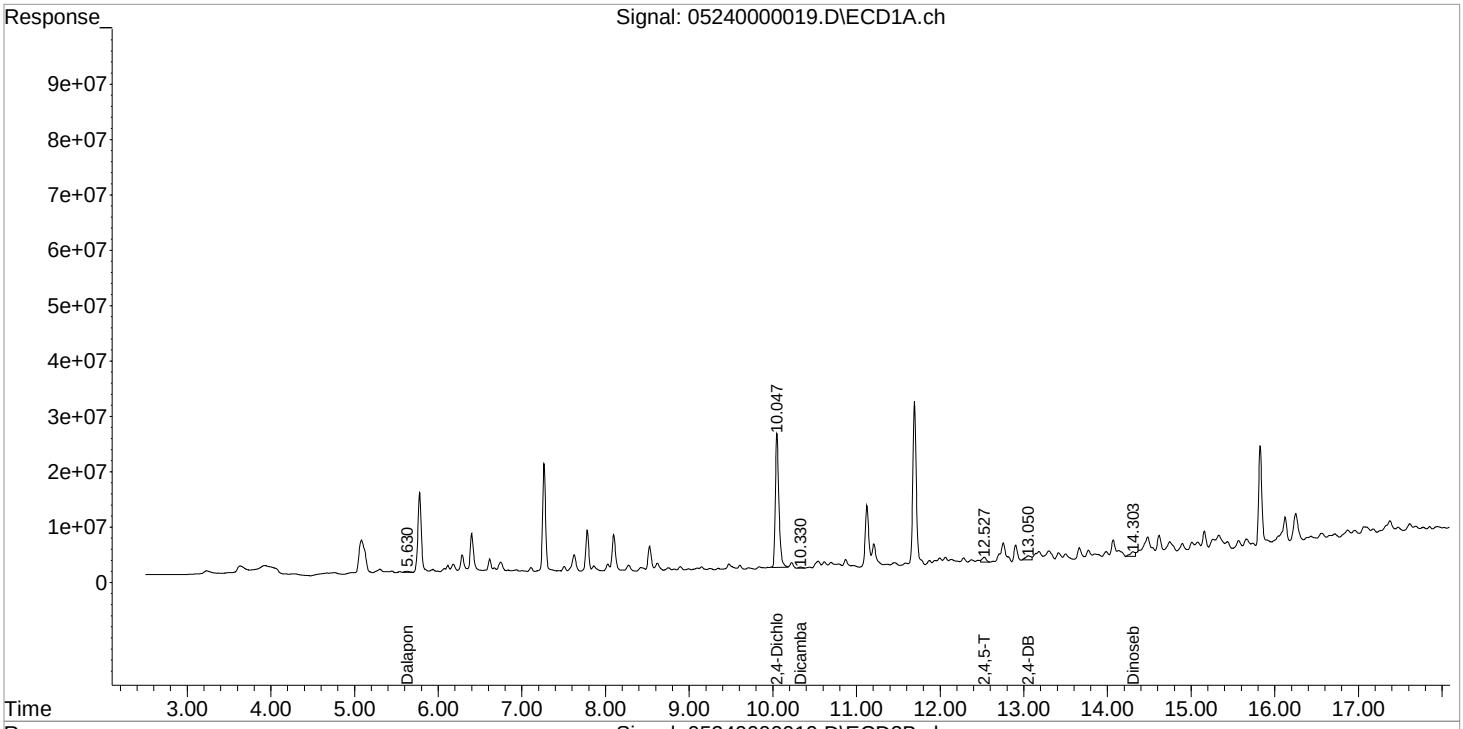
Quantitation Report (QT Reviewed)

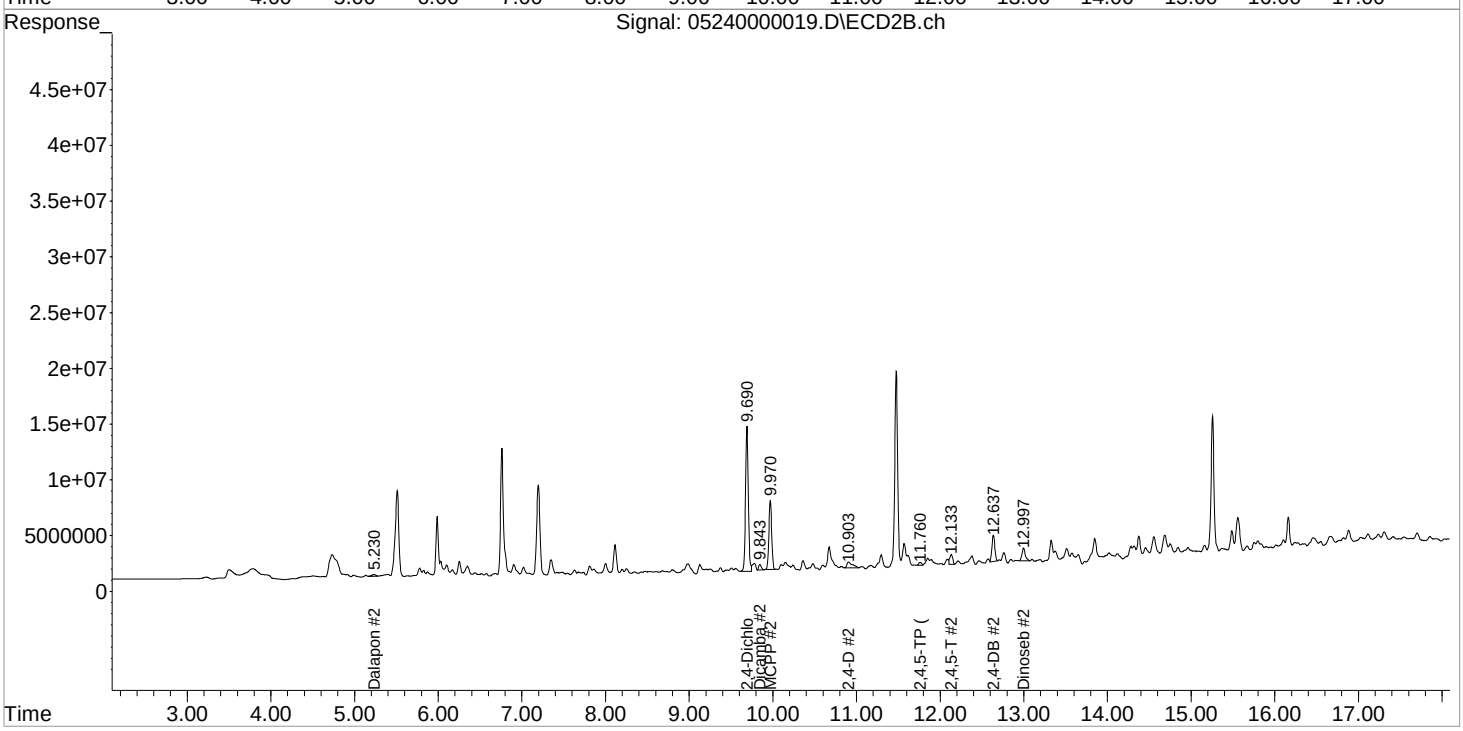
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000019.D Vial: 15
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 18:20:33 Operator: TAP
Sample : K2104780-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:54:48 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000015.D\
Lab ID: K2104780-010
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 16:44:33
Batch ID: 724879
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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - Rtx-CLPesticides2	Dicamba	9.96			NR
	MCPP	9.96			NR

Primary Review: _____

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000015.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 16:44:33	**Vial:**	18
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-010	**Raw Units:**	ppb

Bottle ID:	K2104780-010.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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 -0.01	9.69	62592863	28016797	78.413	61.756	78	62	62	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	11.75 -0.01	0	577515	0.000	0.343	0U	0.95U	4.0 U	Y
2,4-D	0.00	10.90	0	510325	0.000	1.261	0U	3.5U	13 U	Y

Prep Amount:	30.8990 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	58.70

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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd 4W 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000015.D Vial: 13
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 16:44:33 Operator: TAP
Sample : K2104780-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:05:35 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 : Wed May 12 09:45:39 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	62592863	28016797	78.413	61.756
		Target Compounds						
1)	m	Dalapon	5.537f	5.223	587285	248648	0.573	0.447
3)	m	Dicamba	10.320f	9.963f	774967	12155357	0.300	8.271 #
4)	m	MCPP	0.000	9.963	0	12155357	N.D.	6821.423 #
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7)	m	2,4-D	0.000	10.897	0	510325	N.D.	1.261 #
8)	m	2,4,5-TP ...	0.000	11.753	0	577515	N.D.	0.343 #
9)	m	2,4,5-T	12.520	12.130	4155622	1230357	1.925	0.990 #
10)	m	2,4-DB	0.000	12.700	0	509795	N.D.	3.855 #
11)	m	Dinoseb	14.300	12.993f	798701	3350930	0.411	2.926 #

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

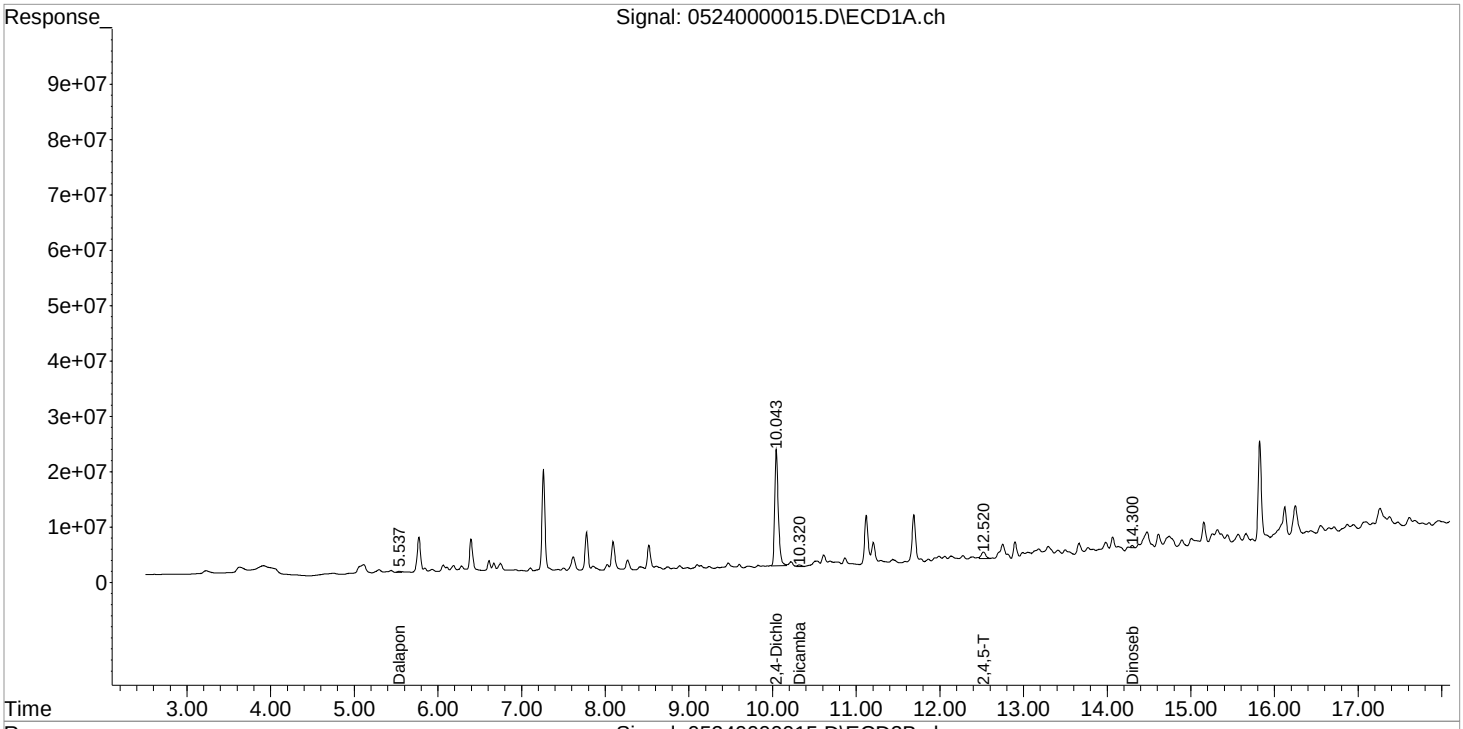
Quantitation Report (QT Reviewed)

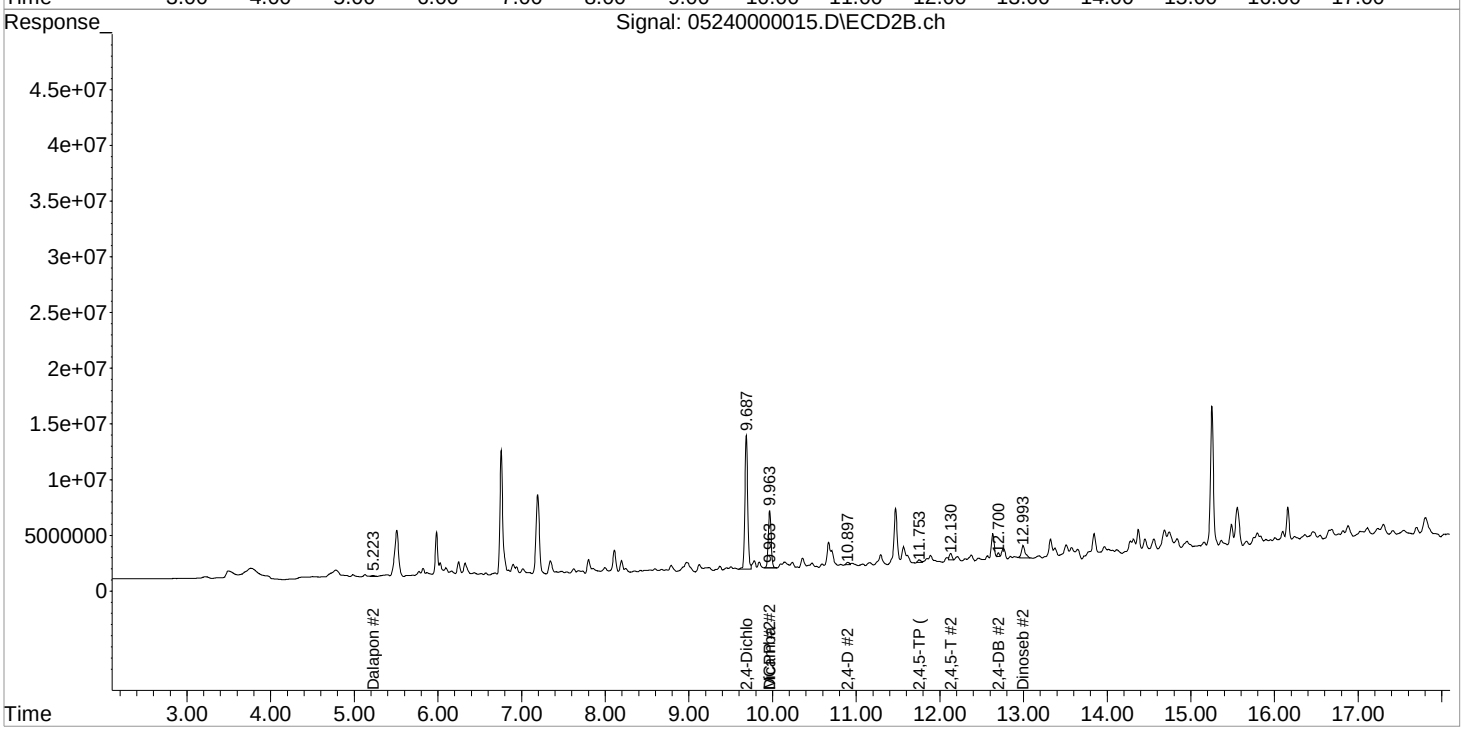
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000015.D Vial: 13
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 16:44:33 Operator: TAP
Sample : K2104780-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:05:35 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000016.D\
Lab ID: K2104780-011
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 17:08:30
Batch ID: 724879
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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - Rtx-CLPesticides2	Dicamba	9.96			NR
	MCPP	9.96			NR

Primary Review: _____

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000016.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 17:08:30	**Vial:**	19
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-011	**Raw Units:**	ppb

Bottle ID:	K2104780-011.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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 -0.01	9.68 -0.01	63187809	29127251	79.158	64.204	79	64	64	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	11.76	0	1040687	0.000	0.618	0U	1.9U	4.5 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	15 U	Y

Prep Amount:	30.4570 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	53.30

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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd 4W 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000016.D Vial: 14
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 17:08:30 Operator: TAP
Sample : K2104780-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:06:19 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 : Wed May 12 09:45:39 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	9.683	63187809	29127251	79.158	64.204
	Target Compounds						
1) m	Dalapon	5.637f	5.230	542110	541378	0.529	0.974 #
3) m	Dicamba	0.000	9.963f	0	10180023	N.D.	6.927 #
4) m	MCPP	0.000	9.963	0	10180023	N.D.	5591.136 #
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D.	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	11.757	0	1040687	N.D.	0.618 #
9) m	2,4,5-T	12.480	12.127	1810439	1850615	0.839	1.489 #
10) m	2,4-DB	13.050	12.630f	2089756	4712875	9.504	35.640 #
11) m	Dinoseb	14.243f	12.993f	5900276	2575732	3.036	2.249 #

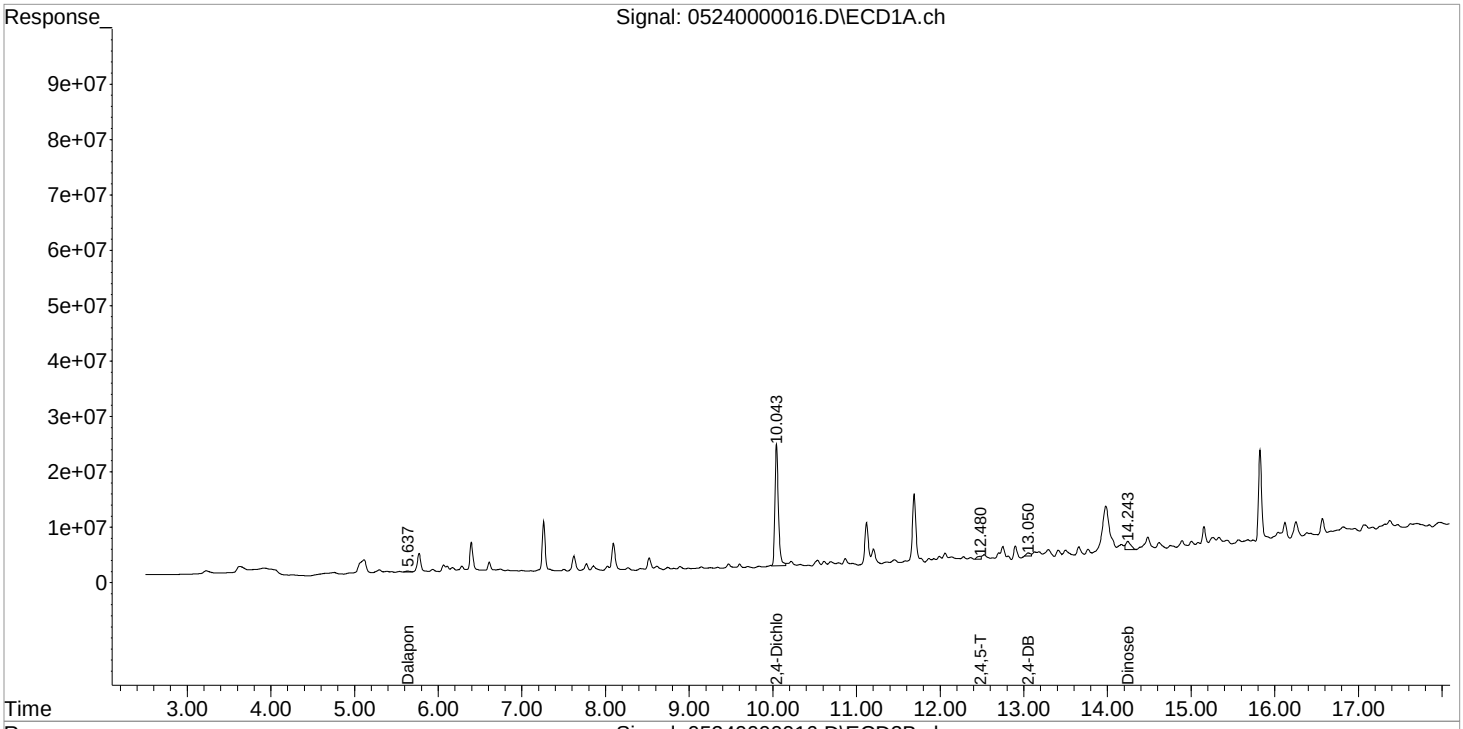
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

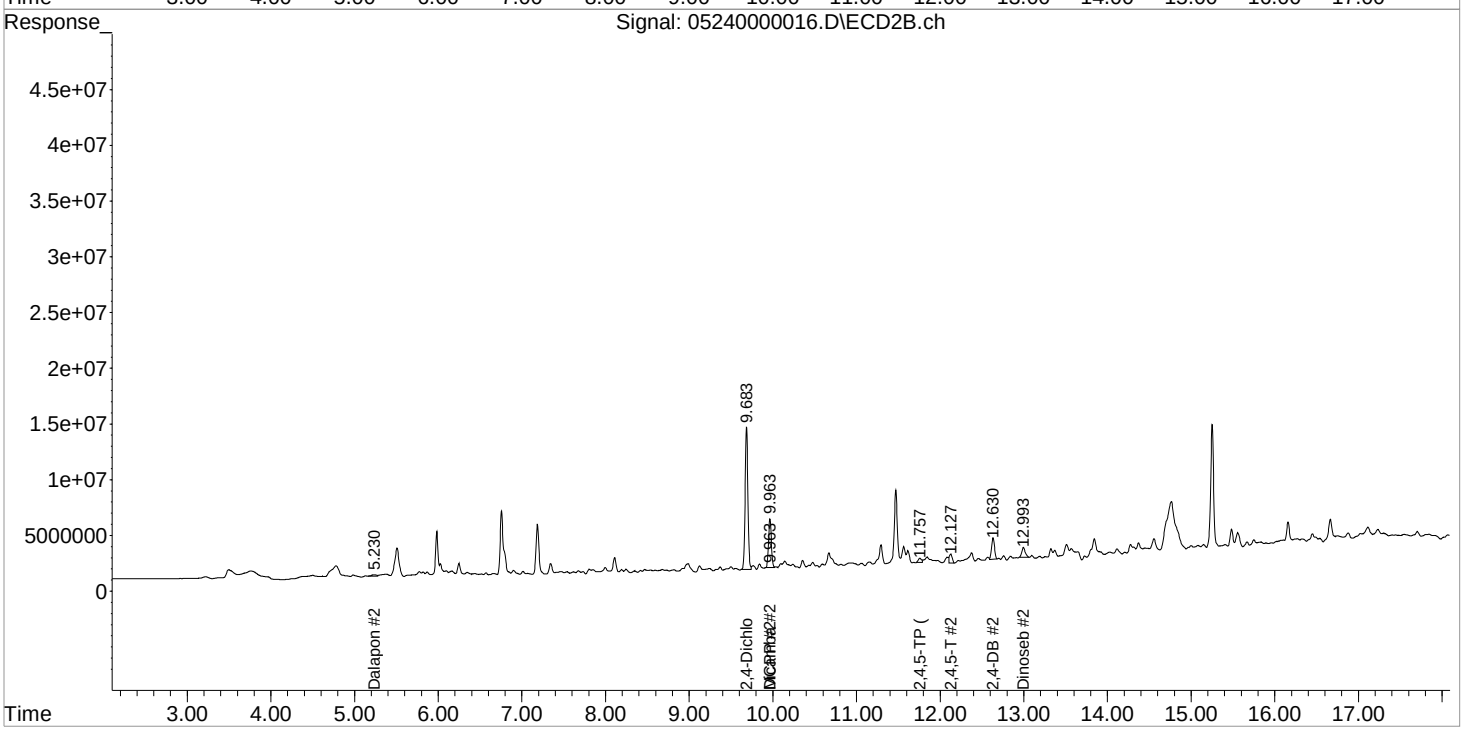
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000016.D Vial: 14
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 17:08:30 Operator: TAP
Sample : K2104780-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:06:19 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000022.D\
Lab ID: K2104780-012
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 19:32:58
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000022.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 19:32:58	**Vial:**	20
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-012	**Raw Units:**	ppb

Bottle ID:	K2104780-012.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	65659391	30452081	82.255	67.124	82	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	11.76	0	761678	0.000	0.452	0U	1.4U	4.6 U	Y
2,4-D	0.00	10.92 +0.03	0	1328952	0.000	3.283	0U	10U	15 U	Y

Prep Amount:	30.9670 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	51.50

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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000022.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 19:32:58 Operator: TAP
Sample : K2104780-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:55:41 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 : Wed May 12 09:45:39 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	65659391	30452081	82.255	67.124	
		Target Compounds							
1)	m	Dalapon	5.637f	5.230	699690	318788	0.683	0.573	
3)	m	Dicamba	10.327f	9.847f	658385	1591998	0.255	1.083	#
4)	m	MCPP	0.000	9.970	0	12030685	N.D.	6743.775	#
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d	
7)	m	2,4-D	0.000	10.917	0	1328952	N.D.	3.283	#
8)	m	2,4,5-TP ...	0.000	11.763	0	761678	N.D.	0.452	#
9)	m	2,4,5-T	12.527f	12.133	6088094	2443693	2.820	1.967	#
10)	m	2,4-DB	13.050	12.637f	5247233	5952180	23.863	45.012	#
11)	m	Dinoseb	14.303	12.993f	2152038	3419334	1.107	2.986	#

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

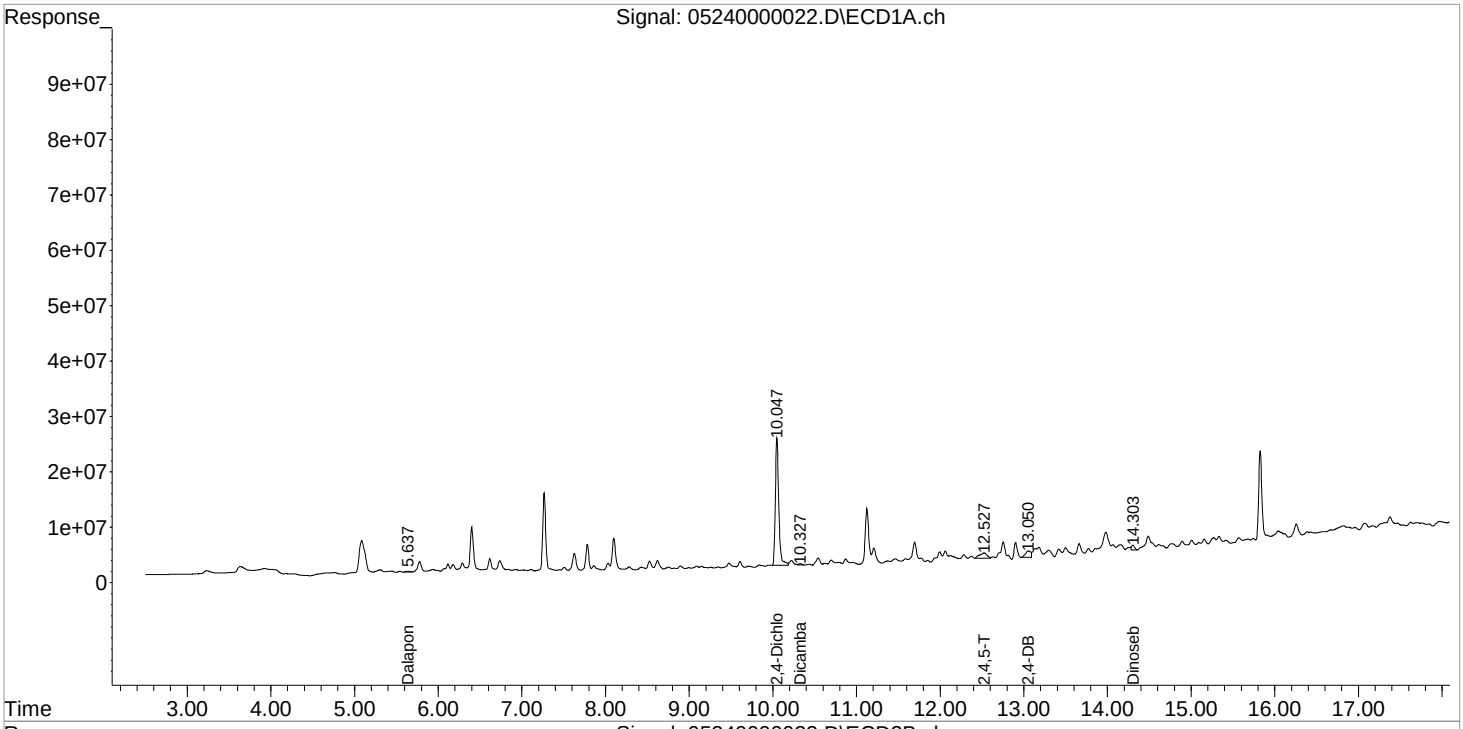
Quantitation Report (QT Reviewed)

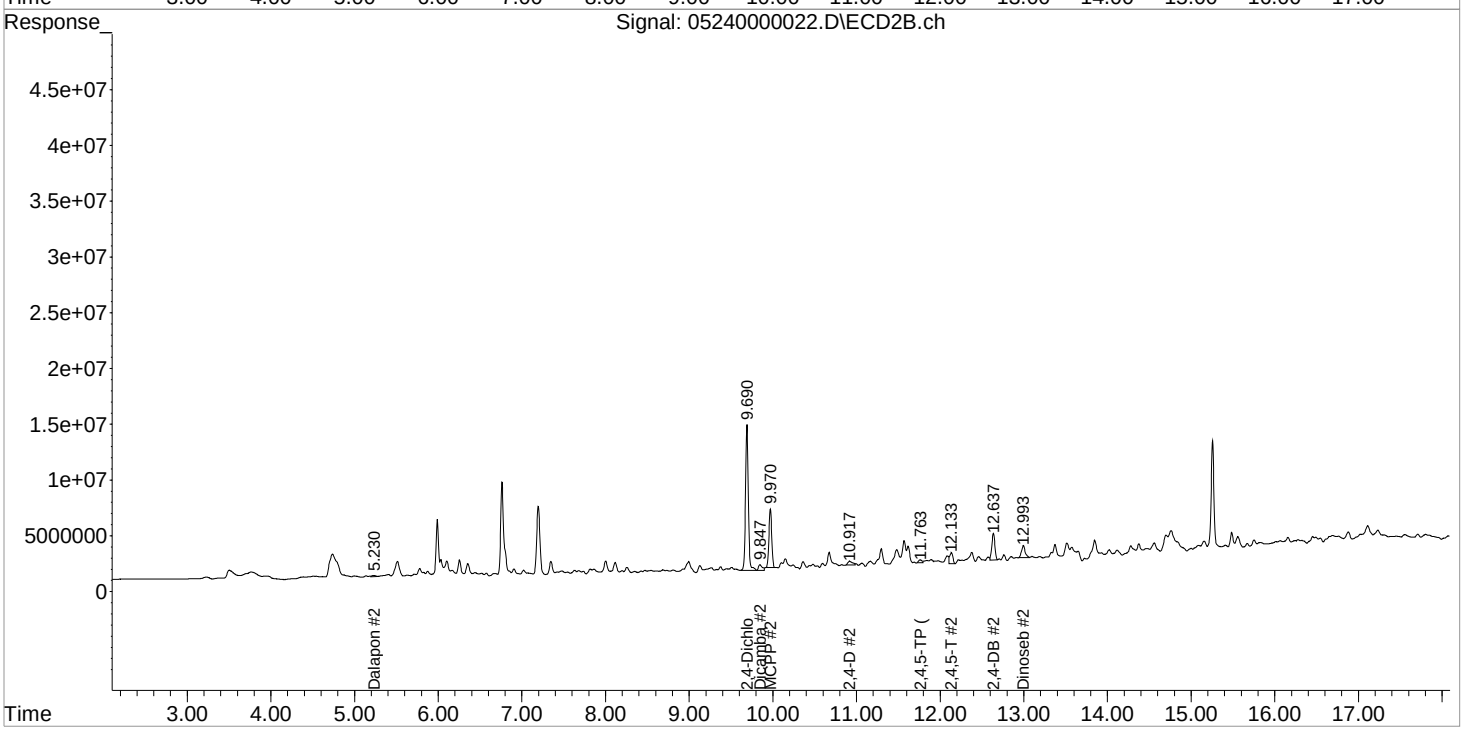
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000022.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 19:32:58 Operator: TAP
Sample : K2104780-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:55:41 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000023.D\
Lab ID: K2104780-013
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 19:57:01
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000023.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 19:57:01	**Vial:**	21
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-013	**Raw Units:**	ppb

Bottle ID:	K2104780-013.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	69300164	30161469	86.816	66.483	87	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	11.76	0	696759	0.000	0.414	0U	1.2U	4.4 U	Y
2,4-D	11.27 +0.01	10.92 +0.03	2869735	904378	4.295	2.234	13U	6.7U	14 U	Y

Prep Amount:	30.8180 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	53.90

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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd 4W 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000023.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 19:57:01 Operator: TAP
Sample : K2104780-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:56:13 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 : Wed May 12 09:45:39 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	69300164	30161469	86.816	66.483
		Target Compounds						
1)	m	Dalapon	5.633f	5.213	345480	35385	0.337	0.064 #
3)	m	Dicamba	10.327f	9.843f	528516	1369916	0.204	0.932 #
4)	m	MCPP	0.000	9.967	0	12029076	N.D.	6742.772 #
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7)	m	2,4-D	11.267	10.917	2869735	904378	4.295	2.234m#
8)	m	2,4,5-TP ...	0.000	11.757	0	696759	N.D.	0.414 #
9)	m	2,4,5-T	12.483	12.130	1367625	2858228	0.633	2.300 #
10)	m	2,4-DB	13.050	12.633f	4944739	5989763	22.487	45.296 #
11)	m	Dinoseb	14.303	12.993f	2044878	4017985	1.052	3.509 #

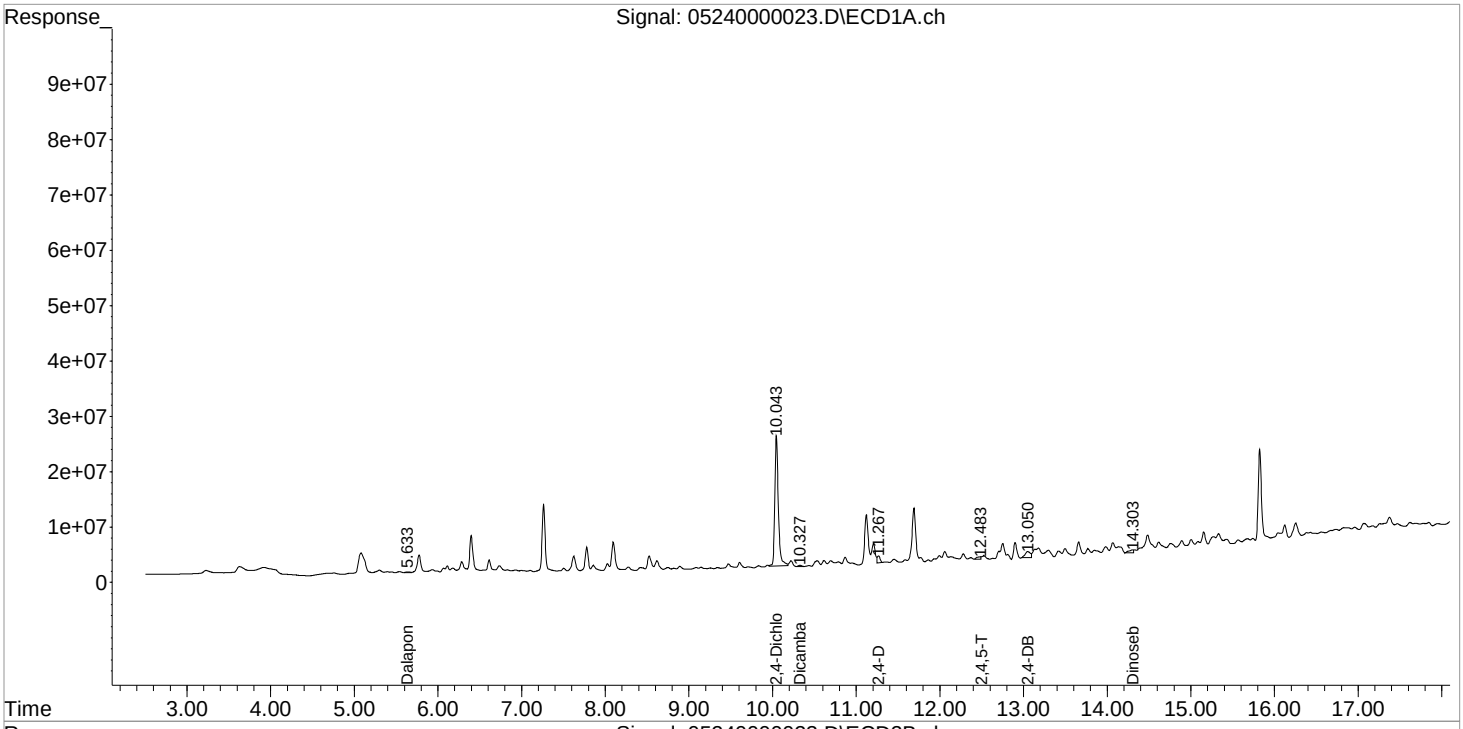
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

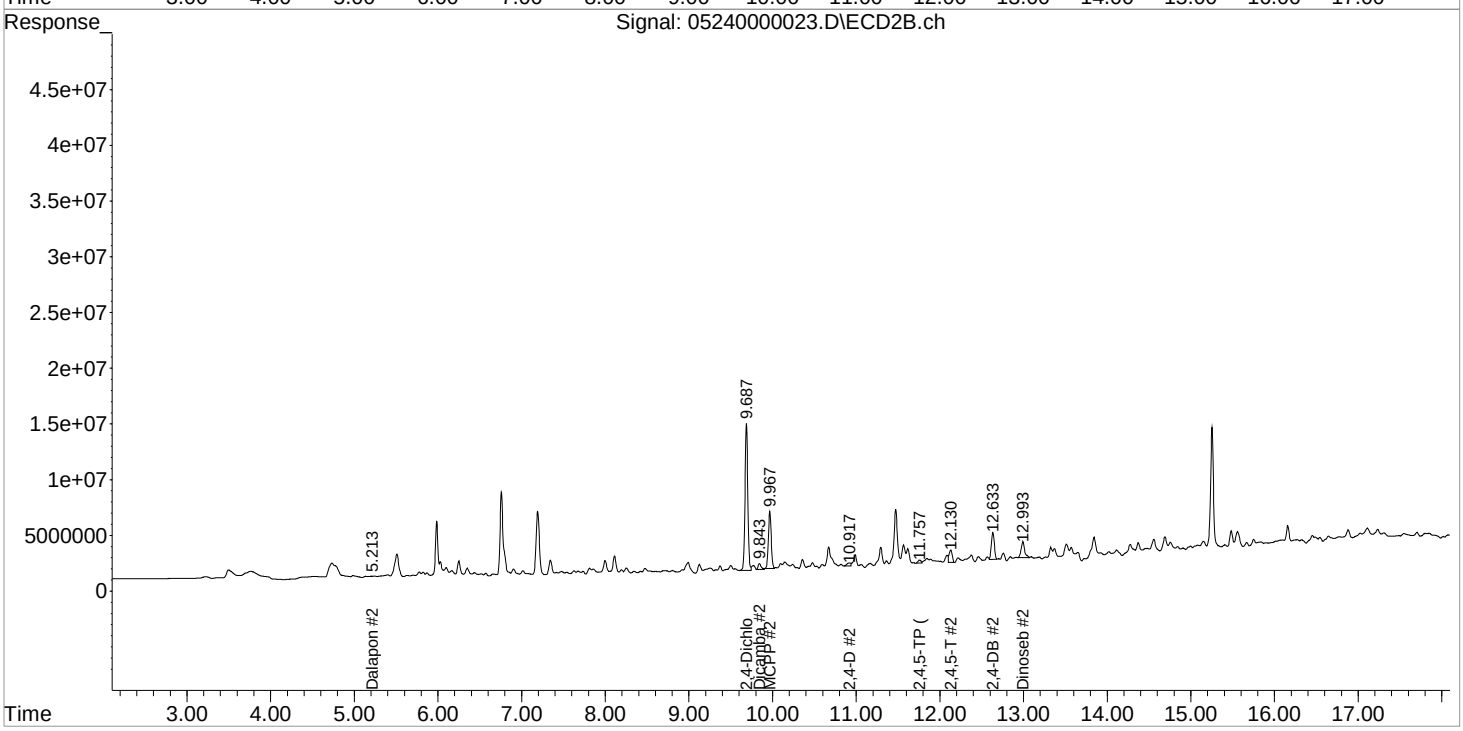
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000023.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 19:57:01 Operator: TAP
Sample : K2104780-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:56:13 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 : Wed May 12 09:45:39 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



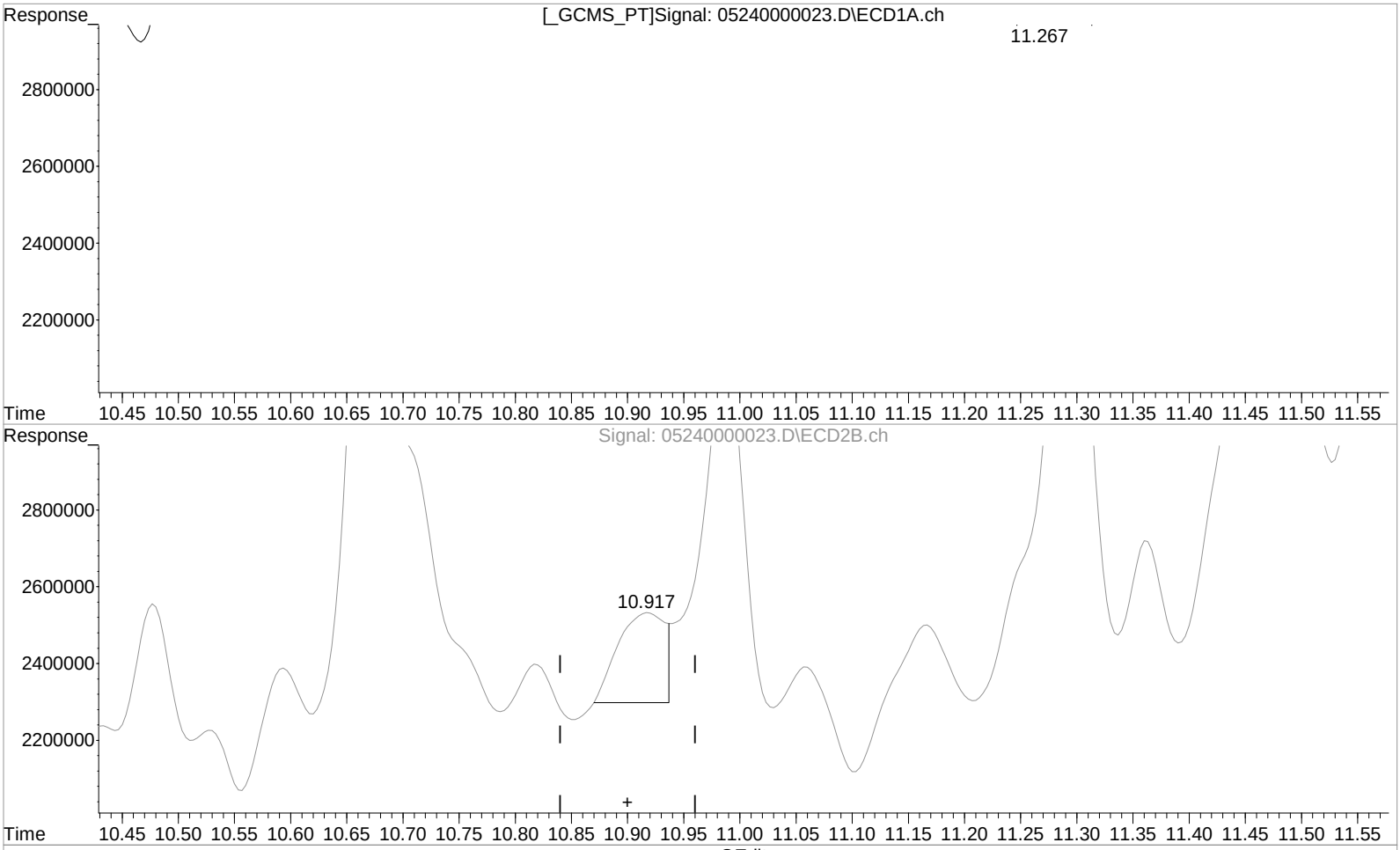


1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000023.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 19:57:01 Operator: TAP
Sample : K2104780-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:16:17 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 : Wed May 12 09:45:39 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)

11.267min 4.295 ppb

response 2869735

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

10.917min 1.708 ppb

response 691427

Manual Integration:

Before

05/25/21

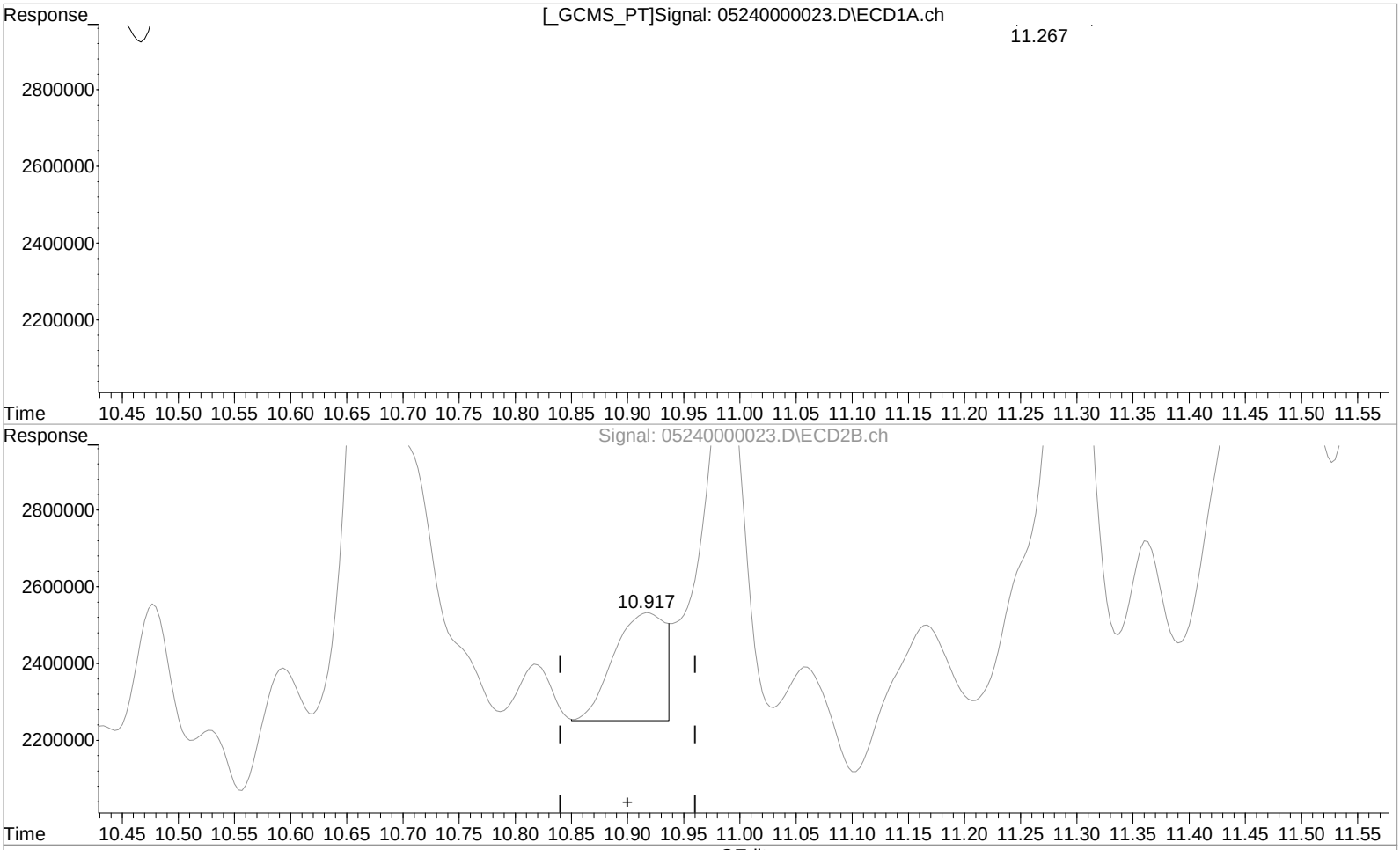
(+) = Expected Retention Time

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000023.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 19:57:01 Operator: TAP
Sample : K2104780-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:16:17 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 : Wed May 12 09:45:39 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)

11.267min 4.295 ppb

response 2869735

Manual Integration:

After

Baseline/Shoulder

05/25/21

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

10.917min 2.234 ppb m

response 904378

(+) = Expected Retention Time

1st TP 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000024.D\
Lab ID: K2104780-014
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 20:21:19
Batch ID: 724879
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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - Rtx-CLPesticides2	Dicamba	9.96			NR
	MCPP	9.96			NR

Primary Review: _____

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000024.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 20:21:19	**Vial:**	22
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-014	**Raw Units:**	ppb

Bottle ID:	K2104780-014.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	9.68 -0.01	66399191	29519642	83.181	65.068	83	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	11.76	0	1040924	0.000	0.618	0U	1.8U	4.3 U	Y
2,4-D	0.00	10.89	0	2613726	0.000	6.457	0U	19J	14 U	Y

Prep Amount:	30.8810 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	55.20

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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000024.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 20:21:19 Operator: TAP
Sample : K2104780-014 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:56:33 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 : Wed May 12 09:45:39 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	9.683	66399191	29519642	83.181	65.068	
		Target Compounds							
1)	m	Dalapon	5.637f	5.207	129337	126422	0.126	0.227	#
3)	m	Dicamba	10.327f	9.963f	664591	16010696	0.257	10.895	#
4)	m	MCPP	0.000	9.963	0	16010696	N.D.	9222.625	#
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d	
7)	m	2,4-D	0.000	10.893	0	2613726	N.D.	6.457	#
8)	m	2,4,5-TP ...	0.000	11.757	0	1040924	N.D.	0.618	#
9)	m	2,4,5-T	12.523	12.130	4576525	2501439	2.120	2.013	
10)	m	2,4-DB	13.047	12.630f	5822535	5736281	26.479	43.379	#
11)	m	Dinoseb	14.300	12.993f	488762	3316772	0.251	2.897	#

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

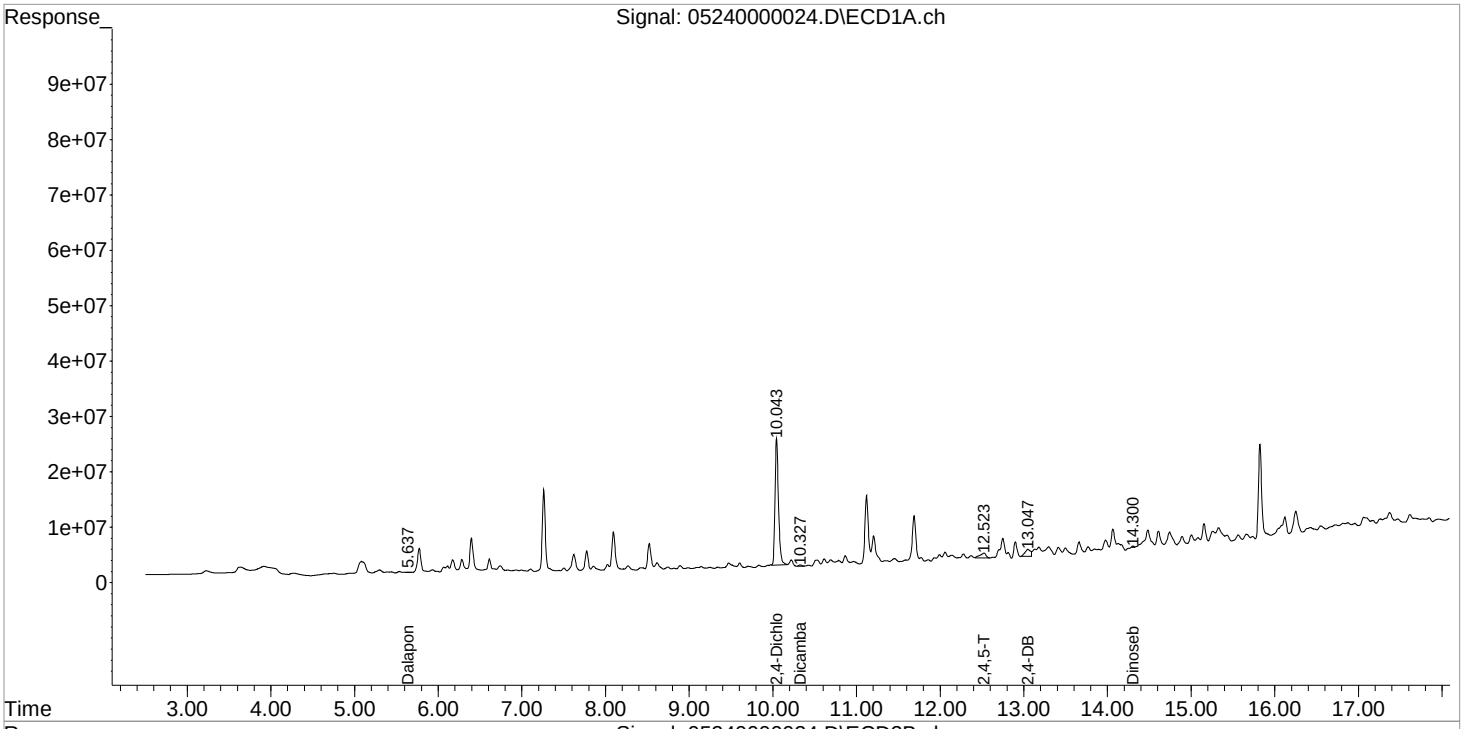
Quantitation Report (QT Reviewed)

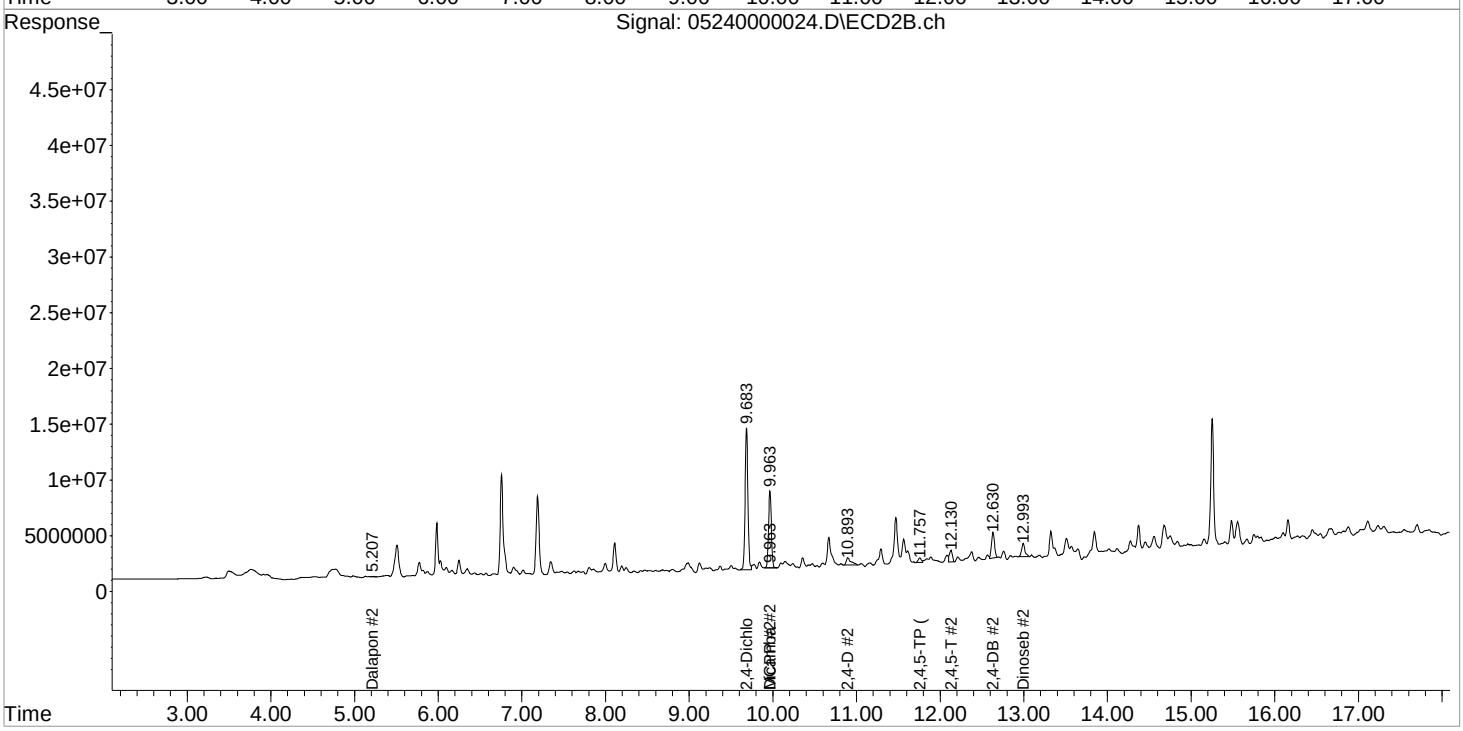
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000024.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 20:21:19 Operator: TAP
Sample : K2104780-014 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:56:33 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000025.D\
Lab ID: K2104780-015
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 20:45:08
Batch ID: 724879
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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - Rtx-CLPesticides2	Dicamba	9.96			NR
	MCPP	9.96			NR

Primary Review: _____

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000025.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 20:45:08	**Vial:**	23
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-015	**Raw Units:**	ppb

Bottle ID:	K2104780-015.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	59974916	27630073	75.133	60.903	75	61	61	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 12.14 -0.05	11.75 -0.01	2345246	1517822	0.805	0.901	2.2U	2.5U	4.1 U	i	Y
2,4-D	0.00	10.89	0	853712	0.000	2.109	0U	5.9U	13 U		Y

Prep Amount:	30.5810 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	58.70

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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd 4W 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000025.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 20:45:08 Operator: TAP
Sample : K2104780-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:56:54 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 : Wed May 12 09:45:39 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	59974916	27630073	75.133	60.903	
		Target Compounds							
1)	m	Dalapon	5.533f	5.227	374256	356482	0.365	0.641	#
3)	m	Dicamba	10.317	9.963f	469739	10098585	0.182	6.872	#
4)	m	MCPP	0.000	9.963	0	10098585	N.D.	5540.414	#
5)	m	MCPA	10.610	0.000	6558997	0	437.677	N.D.	d#
6)	m	Dichloroprop	10.967f	0.000	1126199	0	1.587	N.D.	d#
7)	m	2,4-D	0.000	10.893	0	853712	N.D.	2.109	#
8)	m	2,4,5-TP ...	12.143f	11.750	2345246	1517822	0.805	0.901	
9)	m	2,4,5-T	12.523	12.123f	1107272	1405353	0.513	1.131	#
10)	m	2,4-DB	13.050	12.700	655555	278823	2.981	2.109	#
11)	m	Dinoseb	14.300	12.993f	1213733	3669404	0.624	3.204	#

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

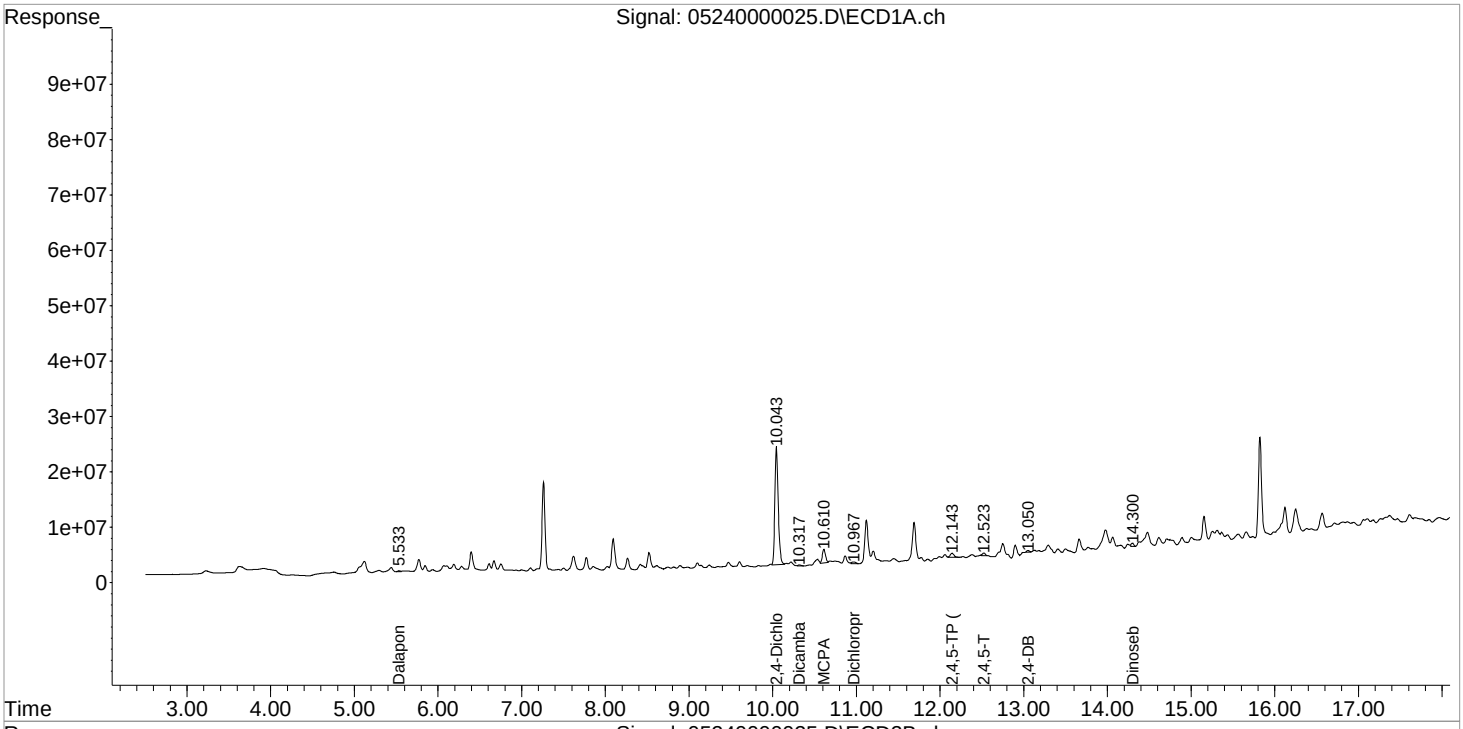
Quantitation Report (QT Reviewed)

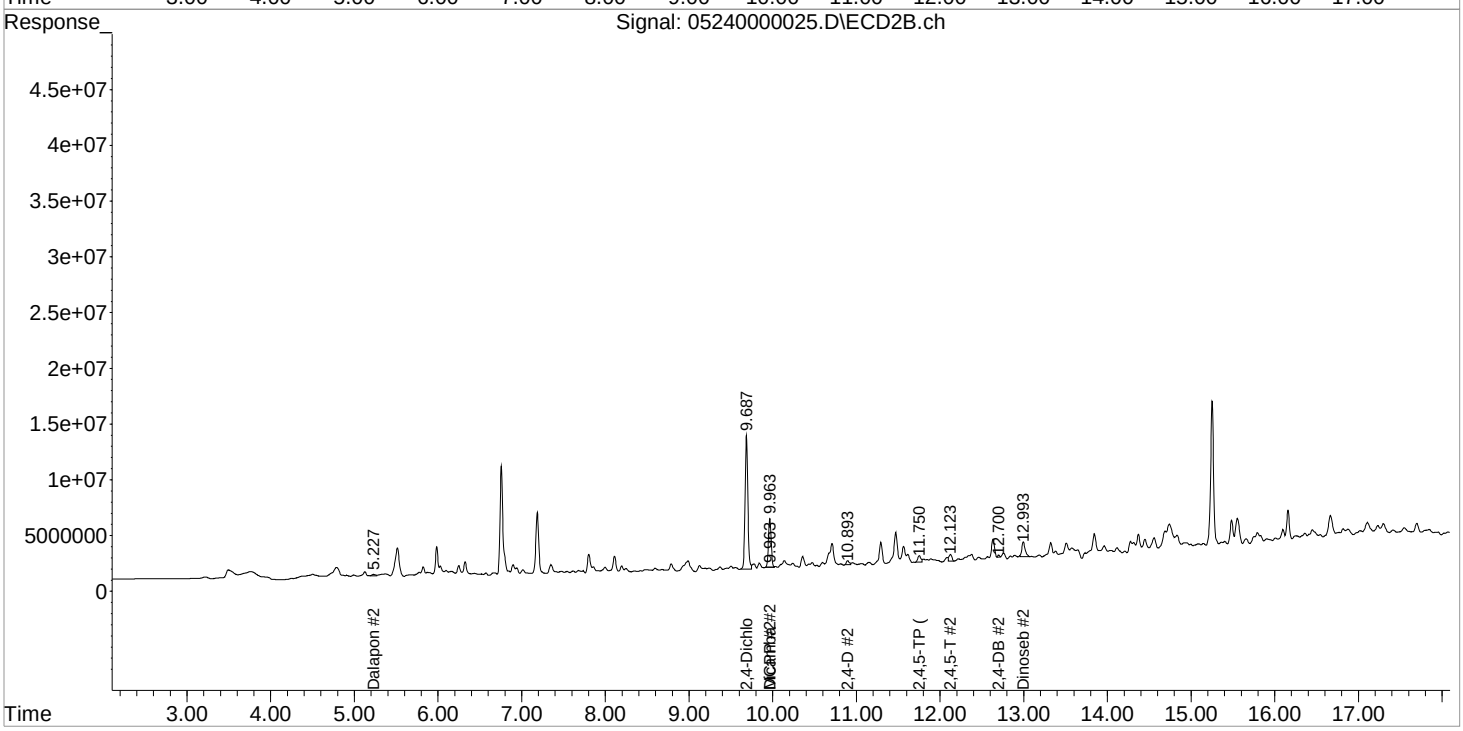
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000025.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 20:45:08 Operator: TAP
Sample : K2104780-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:56:54 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000026.D\
Lab ID: K2104780-016
RunType: N/A
Matrix: Sediment

Date Acquired: 5/24/21 21:09:06
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000026.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 21:09:06	**Vial:**	24
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2104780-016	**Raw Units:**	ppb

Bottle ID:	K2104780-016.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	K2104780
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	70506143	30026758	88.326	66.186	88	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	11.75 -0.01	0	778202	0.000	0.462	0U	1.2U	3.9 U	Y
2,4-D	0.00	10.90 +0.01	0	1286097	0.000	3.177	0U	8.4U	13 U	Y

Prep Amount:	30.4560 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	62.00

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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000026.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 21:09:06 Operator: TAP
Sample : K2104780-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:59:53 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 : Wed May 12 09:45:39 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	70506143	30026758	88.326	66.186	#
		Target Compounds							
1)	m	Dalapon	5.630f	5.227	330454	227352	0.322	0.409	#
3)	m	Dicamba	10.323f	0.000	826187	0	0.319	N.D.	#
4)	m	MCPP	0.000	9.967	0	10875144	N.D.	6024.075	#
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d	
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d	
7)	m	2,4-D	0.000	10.900	0	1286097	N.D.	3.177	#
8)	m	2,4,5-TP ...	0.000	11.753	0	778202	N.D.	0.462	#
9)	m	2,4,5-T	12.523	12.127	3178136	2095011	1.472	1.686	
10)	m	2,4-DB	13.050	12.697	5326874	216147	24.225	1.635	#
11)	m	Dinoseb	14.243f	12.993f	12415722	4274666	6.388	3.733	#

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

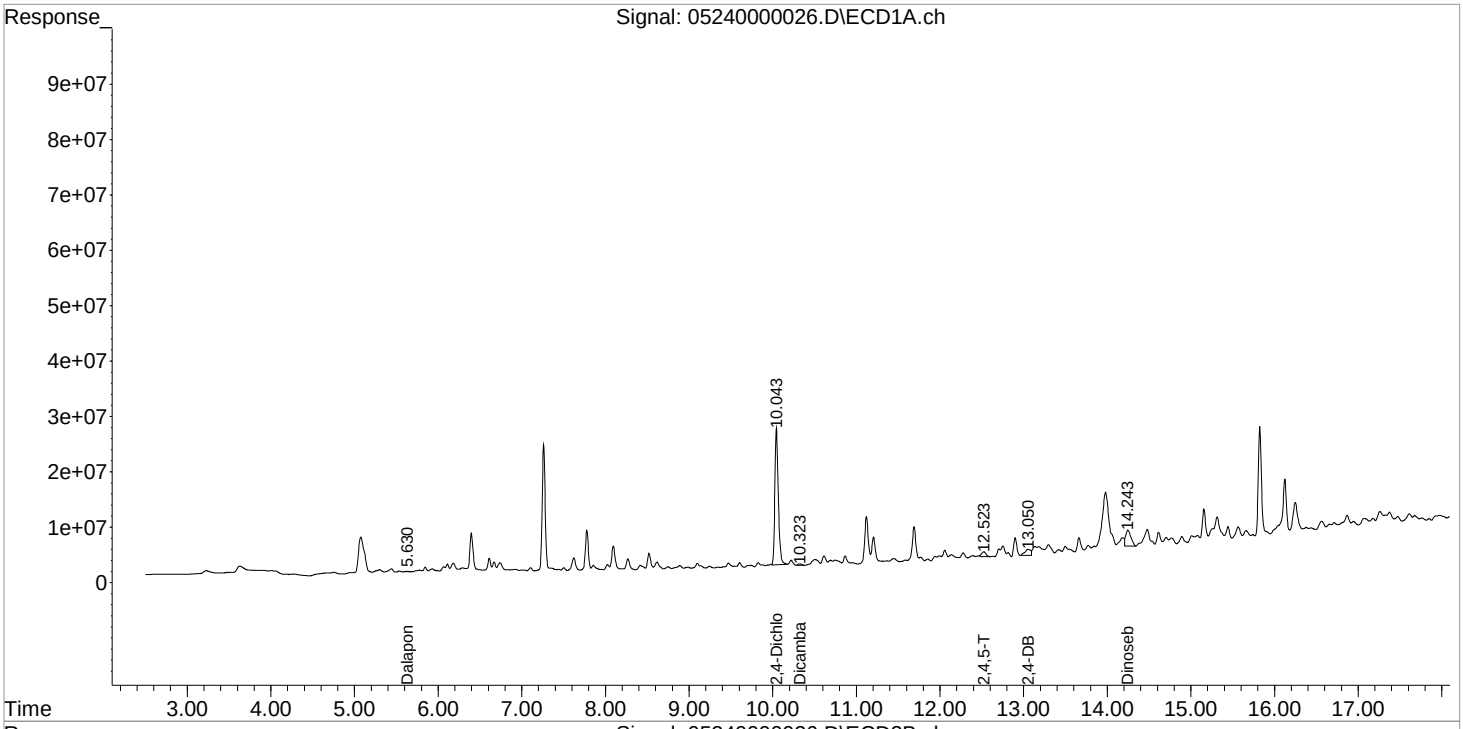
Quantitation Report (QT Reviewed)

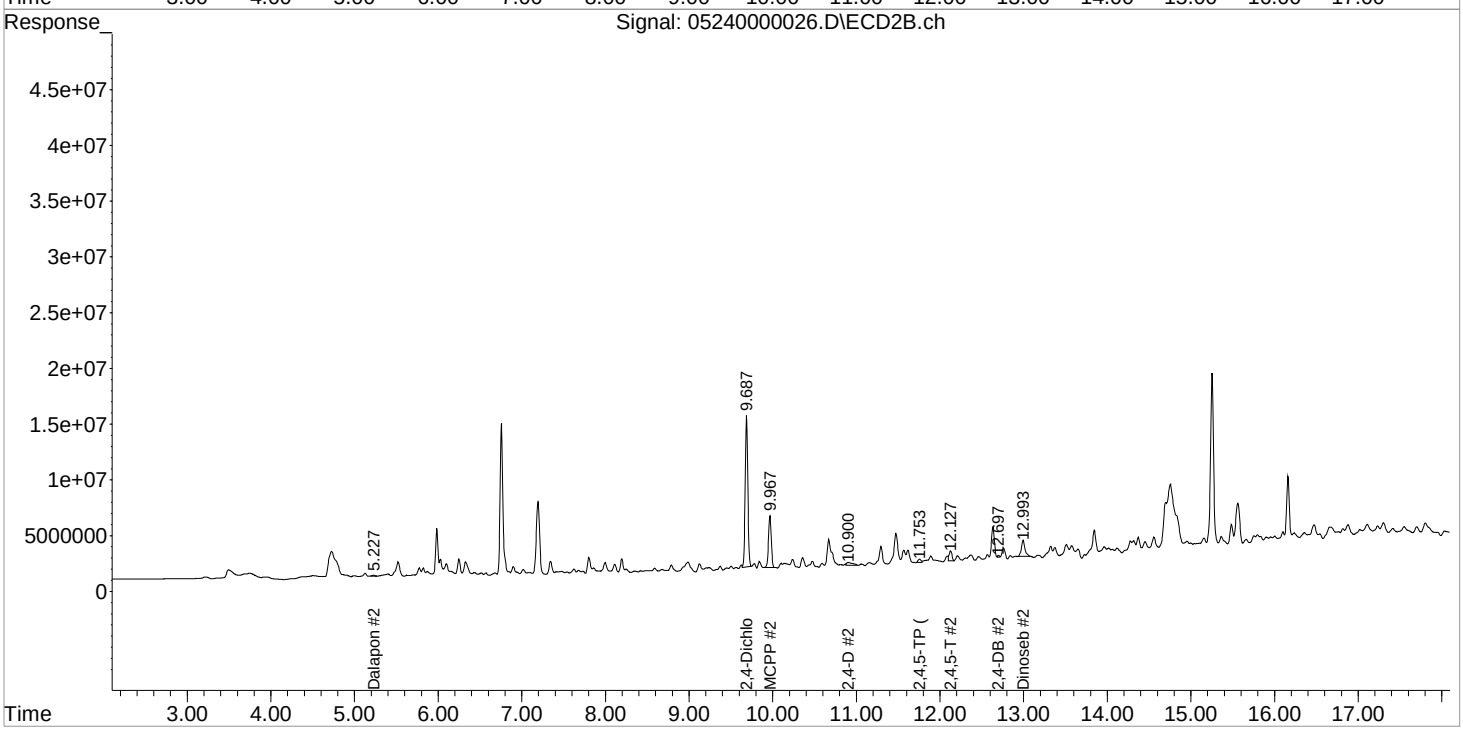
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000026.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 21:09:06 Operator: TAP
Sample : K2104780-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 12:59:53 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000006.D\
Lab ID: KQ2107592-04
RunType: MB
Matrix: Sediment

Date Acquired: 5/24/21 13:07:40
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000006.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 13:07:40	**Vial:**	26
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2107592-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	KQ2107592
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	9.69	42224293	21651677	52.896	47.726	53	48	48	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	0.00	986842	0	0.339	0.000	0.55U	0U	2.4 U	Y
2,4-D	11.27	0.00	3085247	0	4.617	0.000	7.5U	0U	7.7 U	Y

Prep Amount:	30.9670 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	100.00

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

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

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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 13:07:40 Operator: TAP
Sample : KQ2107592-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:02:31 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 : Wed May 12 09:45:39 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	42224293	21651677	52.896m	47.726	
		Target Compounds							
1)	m	Dalapon	0.000	5.177f	0	86332	N.D.	0.155	#
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	10.993f	10.600	178532	1891205	0.252	1.936	#
7)	m	2,4-D	11.273	0.000	3085247	0	4.617	N.D.	#
8)	m	2,4,5-TP ...	12.193	0.000	986842	0	0.339	N.D.	#
9)	m	2,4,5-T	12.503	12.187f	161817	247641	0.075	0.199	#
10)	m	2,4-DB	13.047	12.710f	650604	442000	2.959	3.343	
11)	m	Dinoseb	0.000	12.993f	0	815419	N.D.	0.712	#

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

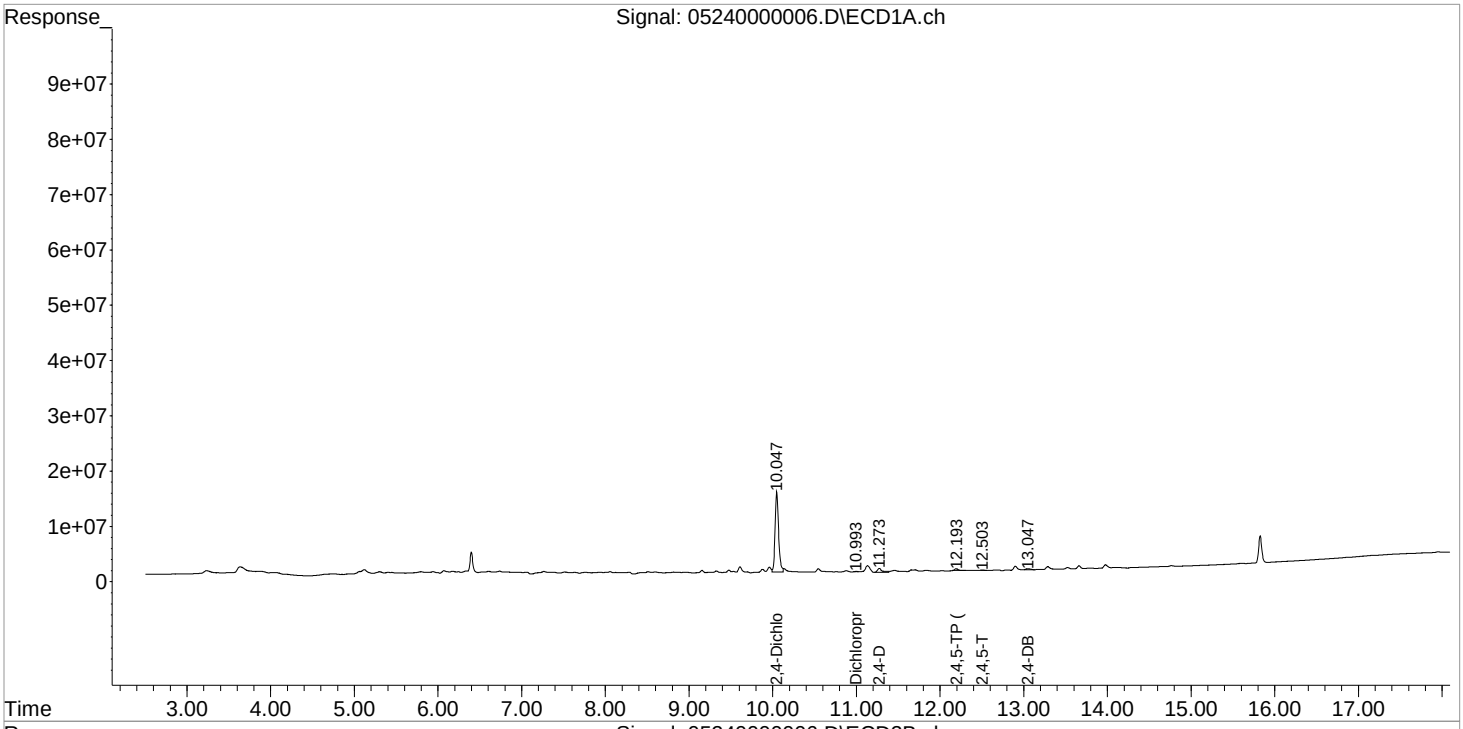
Quantitation Report (QT Reviewed)

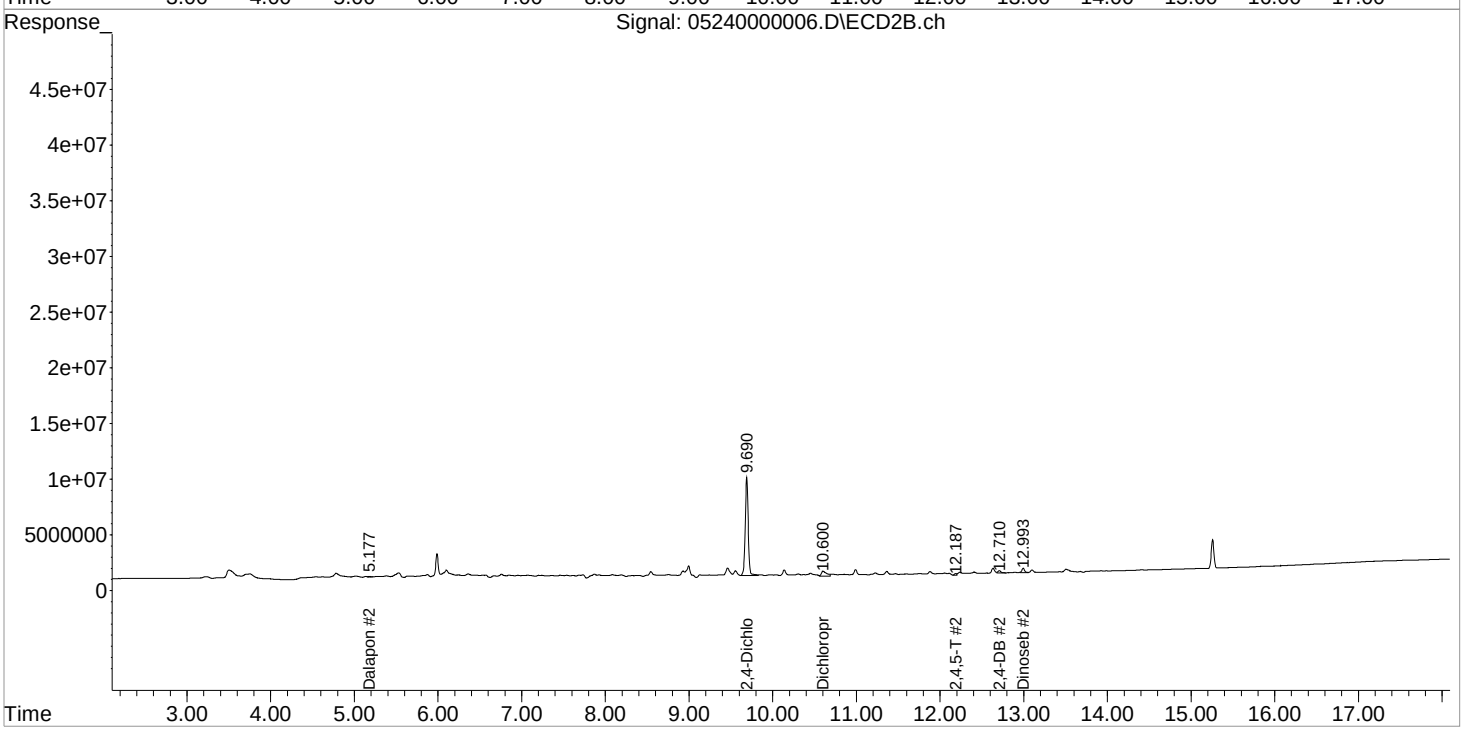
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 13:07:40 Operator: TAP
Sample : KQ2107592-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 13:02:31 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 : Wed May 12 09:45:39 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



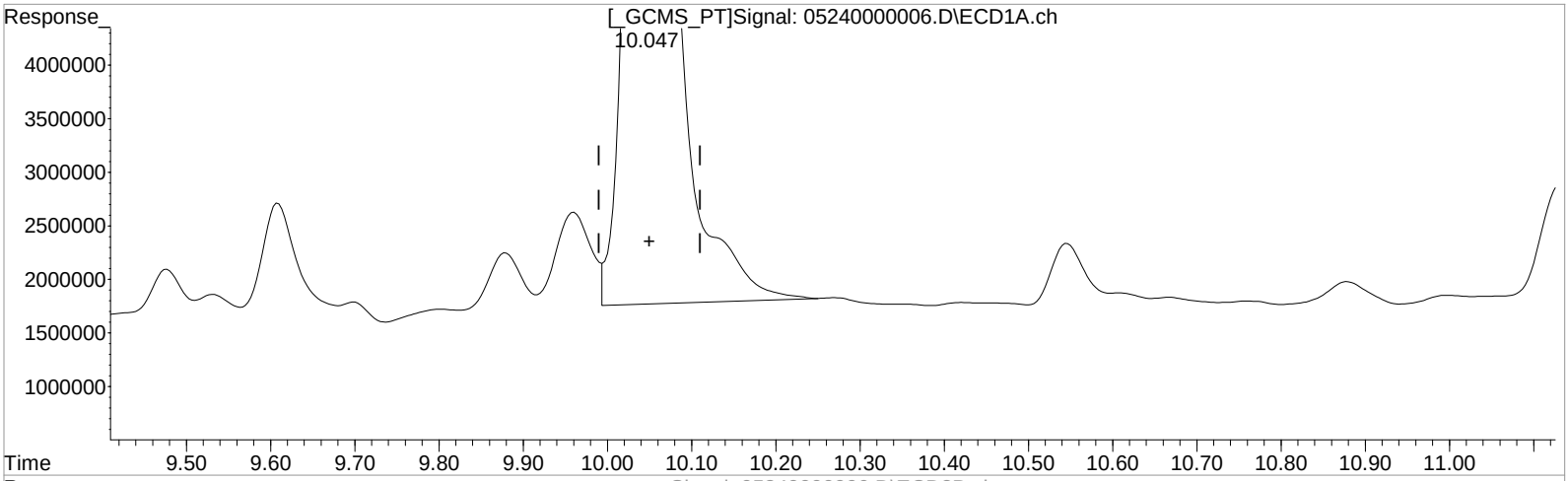


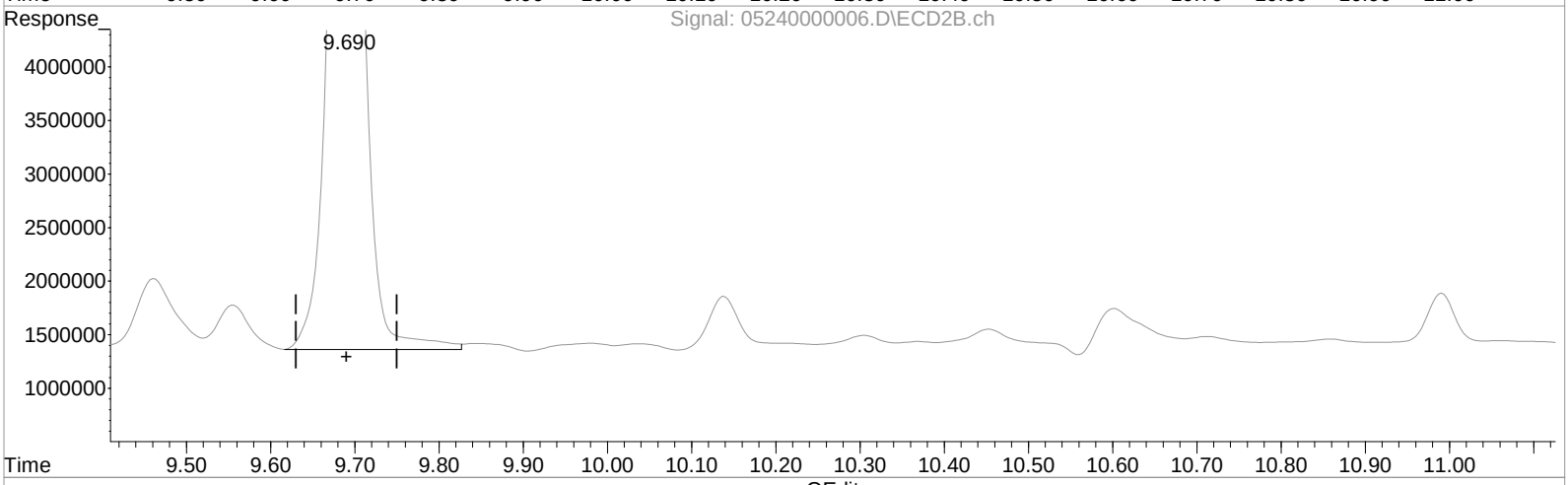
1st TP 05/25/21
2nd 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 13:07:40 Operator: TAP
Sample : KQ2107592-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:15:25 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 : Wed May 12 09:45:39 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 54.684 ppb

response 43651210

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

9.690min 47.726 ppb

response 21651677

Manual Integration:

Before

05/25/21

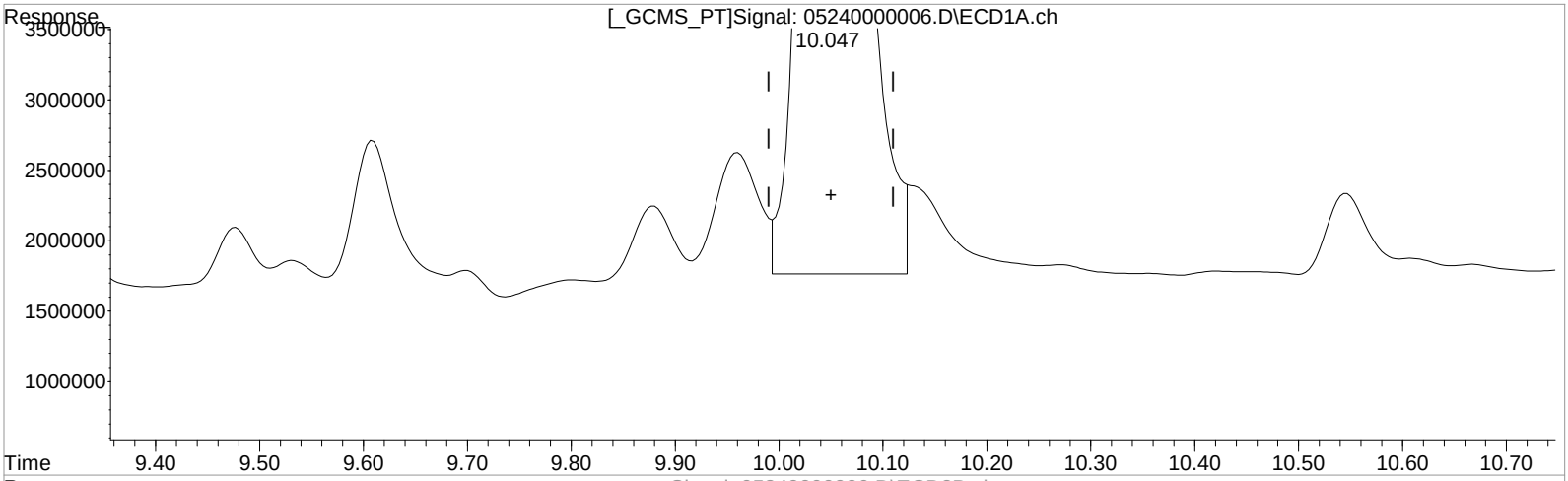
(+) = Expected Retention Time

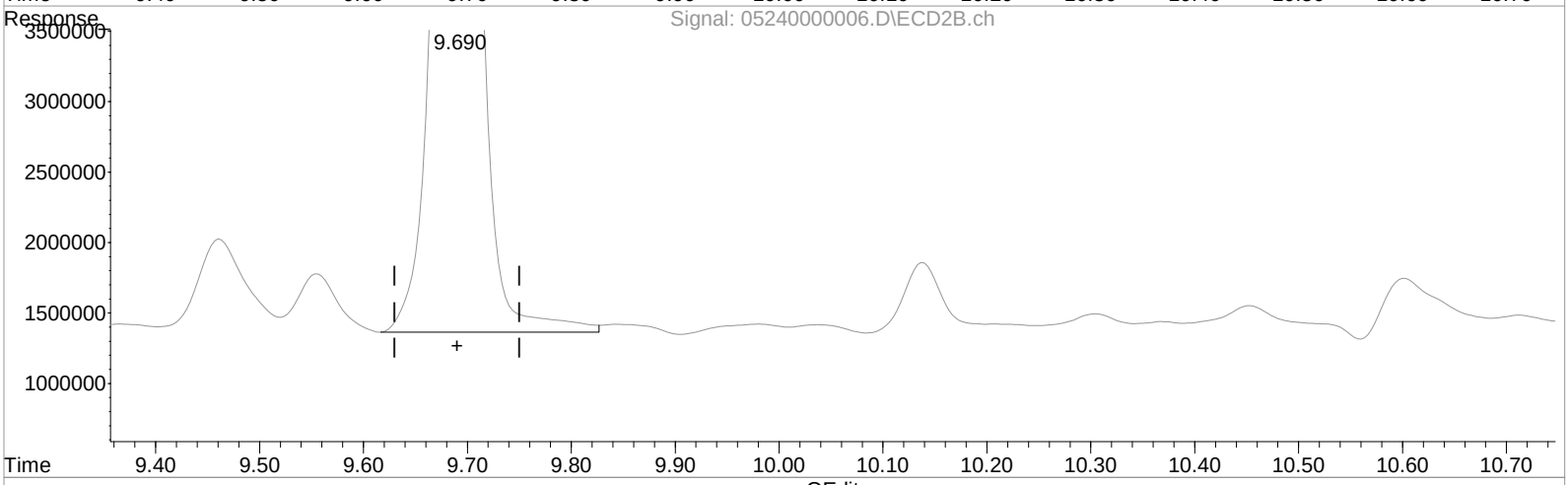
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 13:07:40 Operator: TAP
Sample : KQ2107592-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:15:25 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 : Wed May 12 09:45:39 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 52.896 ppb m

response 42224293

Manual Integration:

After

Baseline/Shoulder

05/25/21

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

9.690min 47.726 ppb

response 21651677

(+) = Expected Retention Time

1st TP 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000005.D\
Lab ID: KQ2107592-03
RunType: LCS
Matrix: Sediment

Date Acquired: 5/24/21 12:43:35
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000005.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 12:43:35	**Vial:**	25
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2107592-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	KQ2107592
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	9.69	57549048	27762758	72.094	61.196	72	61	61	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	203931303	103198058	70.004	61.286	117	102	**102**	Y
2,4-D	11.27	10.90	47230773	23588288	70.684	58.275	118	97.1	**97.1**	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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 12:43:35 Operator: TAP
Sample : KQ2107592-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:15:22 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 : Wed May 12 09:45:39 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	57549048	27762758	72.094	61.196	
	Target Compounds							
1) m	Dalapon	5.590	5.227	42594336	23097138	41.558	41.549	
3) m	Dicamba	10.283	9.903	205.1E6	98352918	79.323	66.926	
4) m	MCPP	10.430	9.967	23059170	13068886	6763.655	7390.392	
5) m	MCPA	10.593	10.207	24856376	16473450	4515.056	5583.765	
6) m	Dichloroprop	11.023	10.580	48985103	28741954	69.012	68.492	
7) m	2,4-D	11.267	10.900	47230773	23588288	70.684	58.275	
8) m	2,4,5-TP ...	12.190	11.760	203.9E6	103.2E6	70.004	61.286	
9) m	2,4,5-T	12.483	12.153	156.7E6	77268260	72.556	62.187	
10) m	2,4-DB	13.047	12.670	23749688	8107168	108.006	61.309	#
11) m	Dinoseb	14.283	13.030	80932416	42516938	41.638	37.130	

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

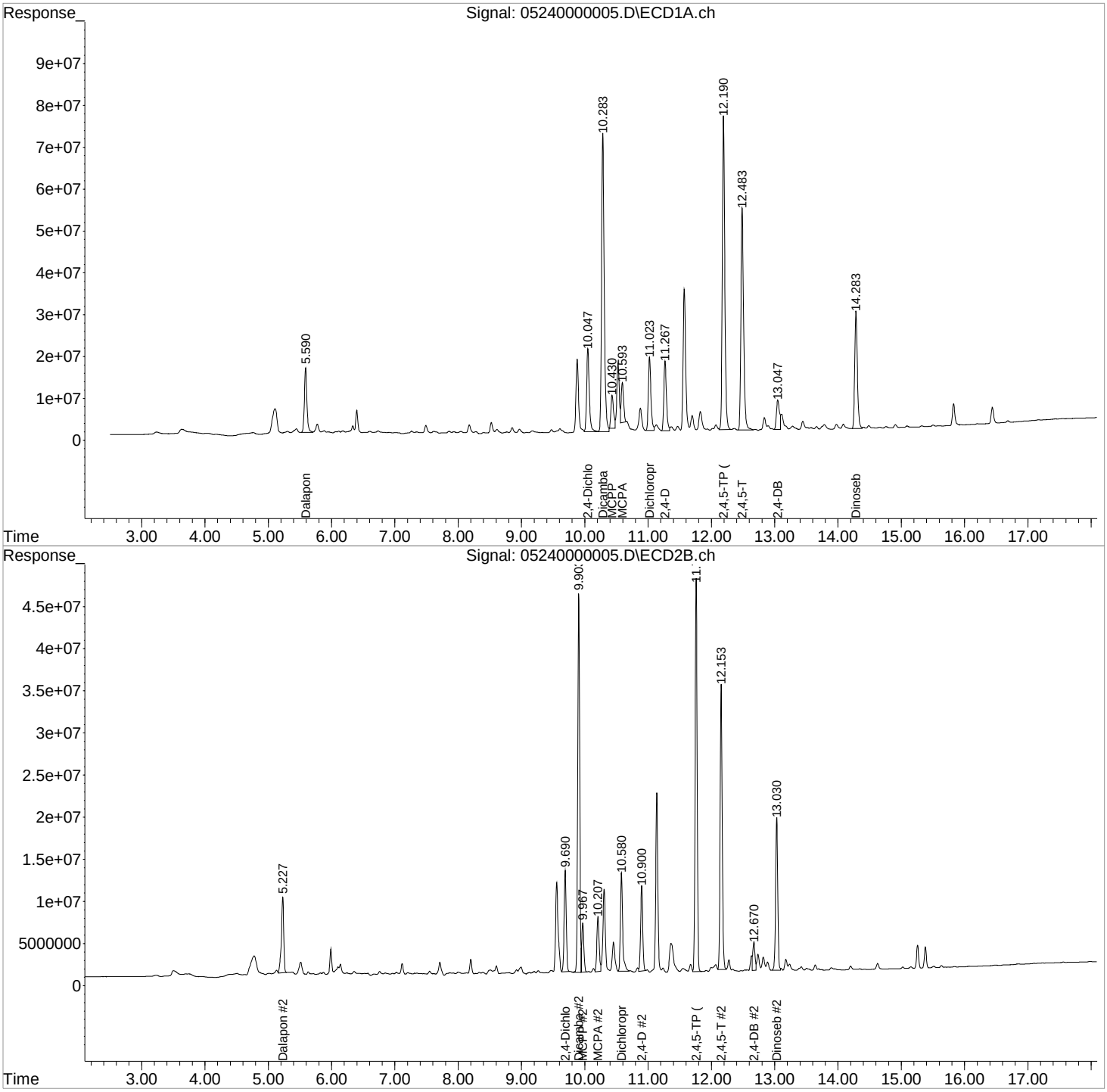
Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 12:43:35 Operator: TAP
Sample : KQ2107592-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:15:22 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000020.D\
Lab ID: KQ2107592-01
RunType: MS
Matrix: Sediment

Date Acquired: 5/24/21 18:44:45
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000020.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 18:44:45	**Vial:**	16
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ2107592-01	**Raw Units:**	ppb

Bottle ID:	K2104780-009.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	KQ2107592
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	78184852	31468154	97.946	69.363	98	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)	12.19	11.76	283139090	141799961	97.194	84.210	270	234	**234**	Y
2,4-D	11.27 +0.01	10.90 +0.01	63455926	33888063	94.966	83.721	264	232	**232**	Y

Prep Amount:	30.3160 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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd 4W 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000020.D Vial: 16
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 18:44:45 Operator: TAP
Sample : K2104780-009 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:16:07 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 : Wed May 12 09:45:39 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	78184852	31468154	97.946	69.363	#
		Target Compounds							
1)	m	Dalapon	5.590	5.230	43202021	22747165	42.151	40.919	
3)	m	Dicamba	10.283	9.903	212.3E6	107.8E6	82.104	73.363	
4)	m	MCPP	10.430	9.970	30927088	25883746	9334.109	15371.808	#
5)	m	MCPA	10.593	10.207	36709252	20645907	7156.346	7222.102	
6)	m	Dichloroprop	11.023	10.580	56056715	30428627	78.975	72.673	
7)	m	2,4-D	11.267	10.900	63455926	33888063	94.966	83.721	
8)	m	2,4,5-TP ...	12.190	11.760	283.1E6	141.8E6	97.194	84.210	
9)	m	2,4,5-T	12.487	12.153	246.7E6	126.2E6	114.261	101.604	
10)	m	2,4-DB	13.047	12.670	46731143	21097466	212.518	159.545	
11)	m	Dinoseb	14.283	13.030	84164552	47839471	43.300	41.778	

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

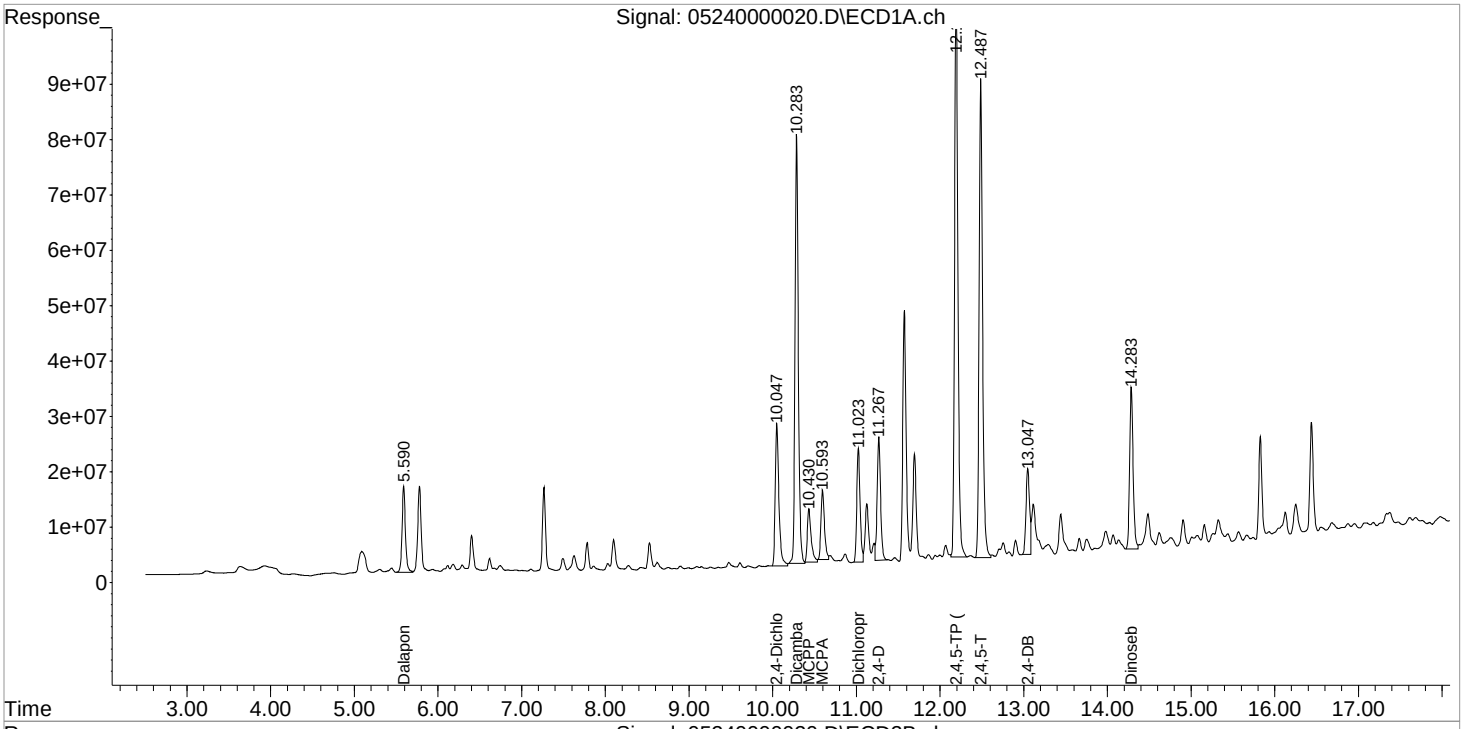
Quantitation Report (QT Reviewed)

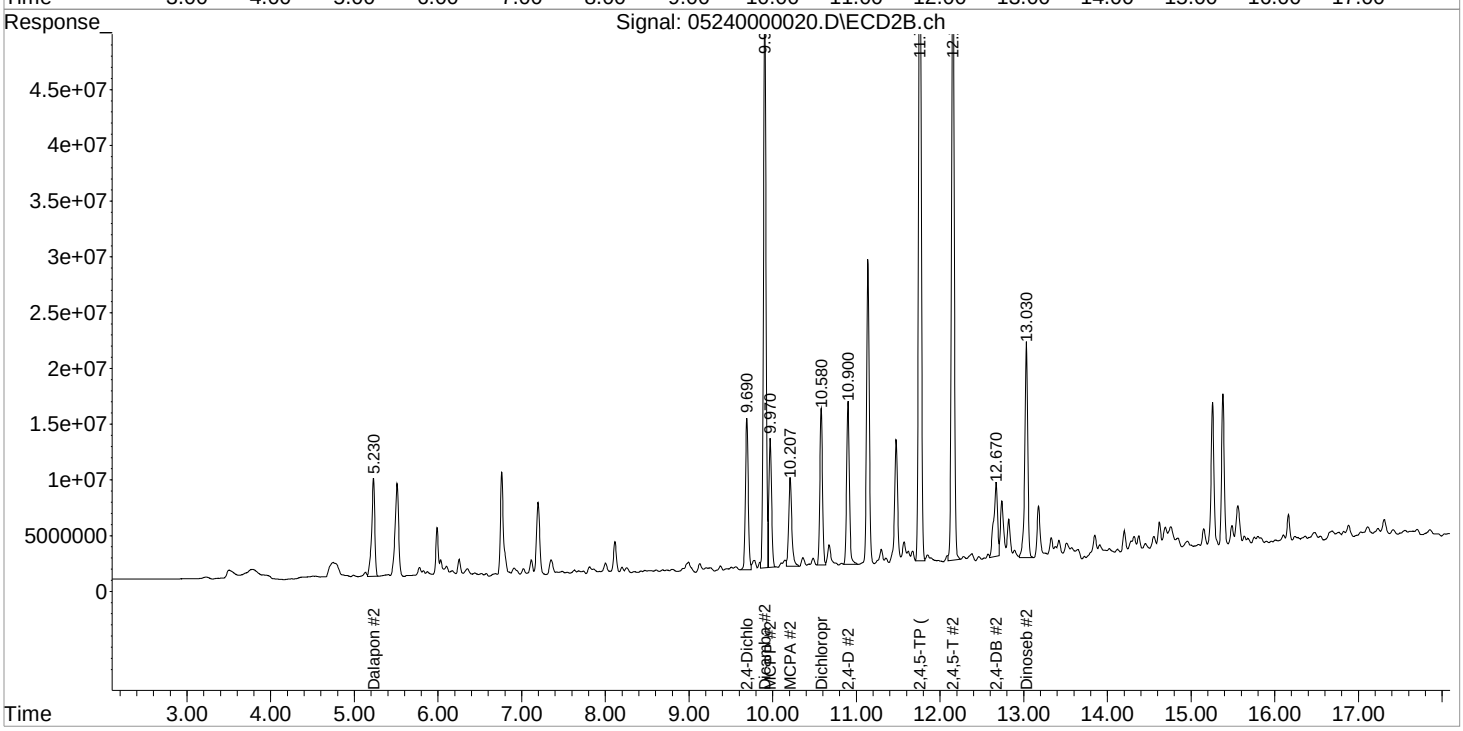
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000020.D Vial: 16
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 18:44:45 Operator: TAP
Sample : K2104780-009 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:16:07 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000021.D\
Lab ID: KQ2107592-02
RunType: DMS
Matrix: Sediment

Date Acquired: 5/24/21 19:08:51
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000021.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 19:08:51	**Vial:**	17
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ2107592-02	**Raw Units:**	ppb

Bottle ID:	K2104780-009.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**	378808	**Report Group:**	KQ2107592
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	5/14/21		

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	75665581	30543675	94.790	67.326	95	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)	12.19	11.76	271645111	135098581	93.248	80.231	255	219	**219**	Y
2,4-D	11.27 +0.01	10.90 +0.01	62191526	32703930	93.074	80.796	255	221	**221**	Y

Prep Amount:	30.7800 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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000021.D Vial: 17
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 19:08:51 Operator: TAP
Sample : K2104780-009 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:16:11 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 : Wed May 12 09:45:39 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...	10.050	9.690	75665581	30543675	94.790	67.326	#
	Target Compounds							
1) m	Dalapon	5.590	5.227	47807389	24989277	46.645	44.953	
3) m	Dicamba	10.283	9.907	205.9E6	104.7E6	79.620	71.219	
4) m	MCPP	10.430	9.970	30394895	25261167	9160.241	14984.050	#
5) m	MCPA	10.593	10.207	35670883	19873122	6924.956	6918.664	
6) m	Dichloroprop	11.023	10.580	54111746	29386469	76.235	70.089	
7) m	2,4-D	11.267	10.900	62191526	32703930	93.074	80.796	
8) m	2,4,5-TP ...	12.190	11.760	271.6E6	135.1E6	93.248	80.231	
9) m	2,4,5-T	12.487	12.153	238.6E6	121.1E6	110.520	97.490	
10) m	2,4-DB	13.047	12.670	46260481	20447863	210.377	154.632	#
11) m	Dinoseb	14.283	13.030	105.0E6	57515973	54.027	50.228	

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

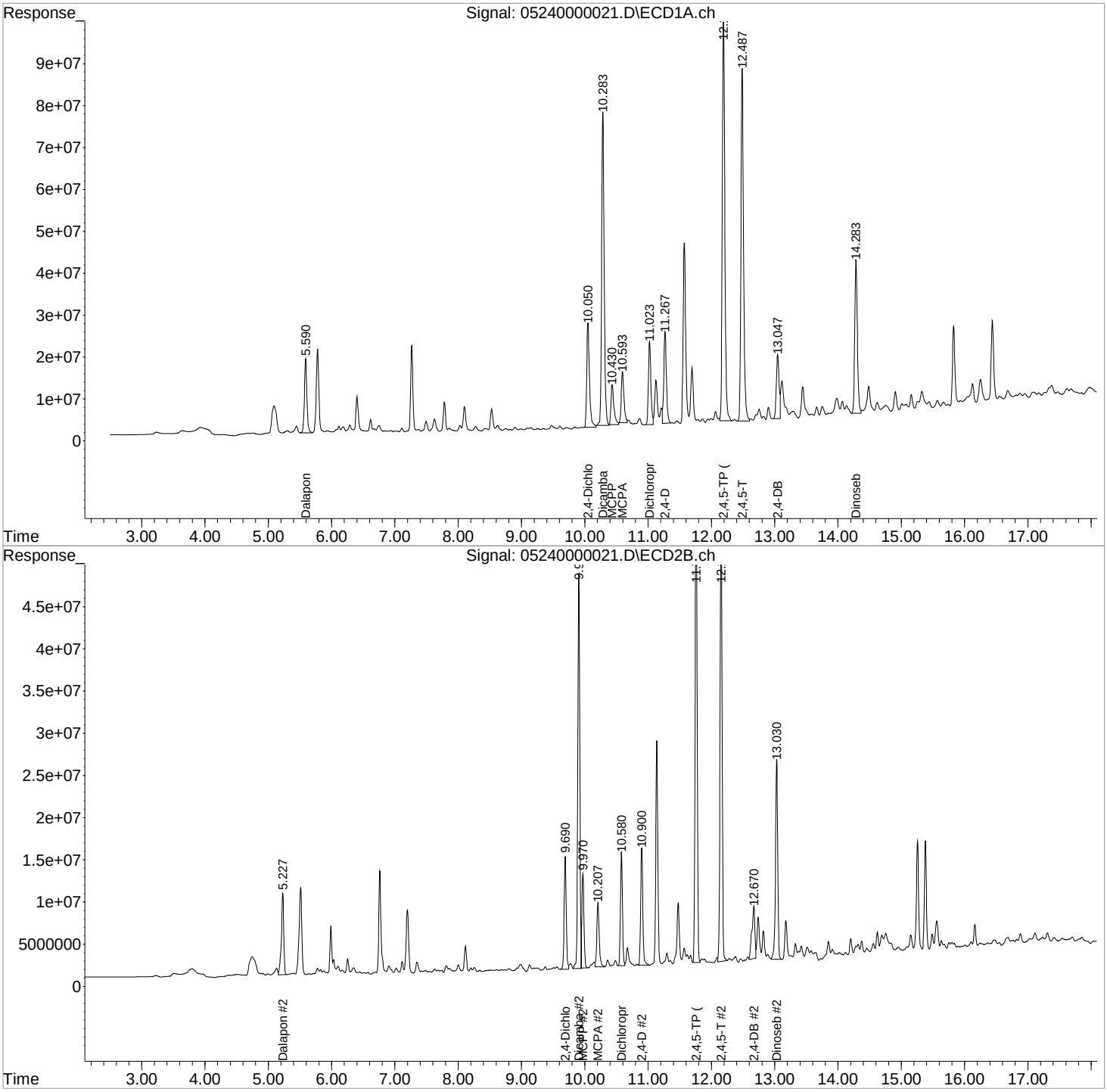
Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000021.D Vial: 17
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 19:08:51 Operator: TAP
Sample : K2104780-009 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 25 07:16:11 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000004.D\
Lab ID: KQ2109278-04
RunType: CCB
Matrix: Sediment

Date Acquired: 5/24/21 12:19:32
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000004.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 12:19:32	**Vial:**	4
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2109278-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**		**Report Group:**	KQ2109278
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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd 4W 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 12:19:32 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 25 12:51:00 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 : Wed May 12 09:45:39 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	5.177f	0	67884	N.D.	0.122 #
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	10.997f	0.000	67548	0	0.095	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.

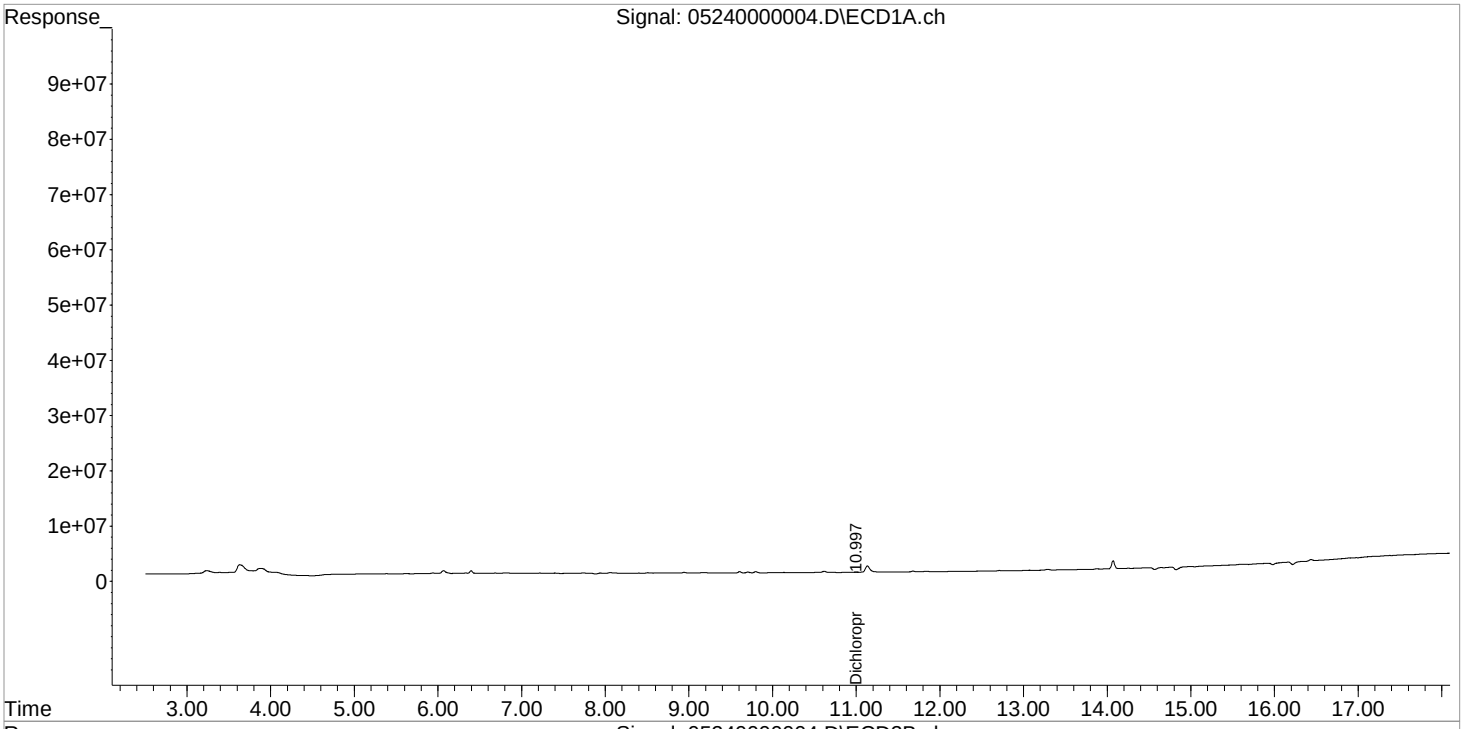
Quantitation Report (QT Reviewed)

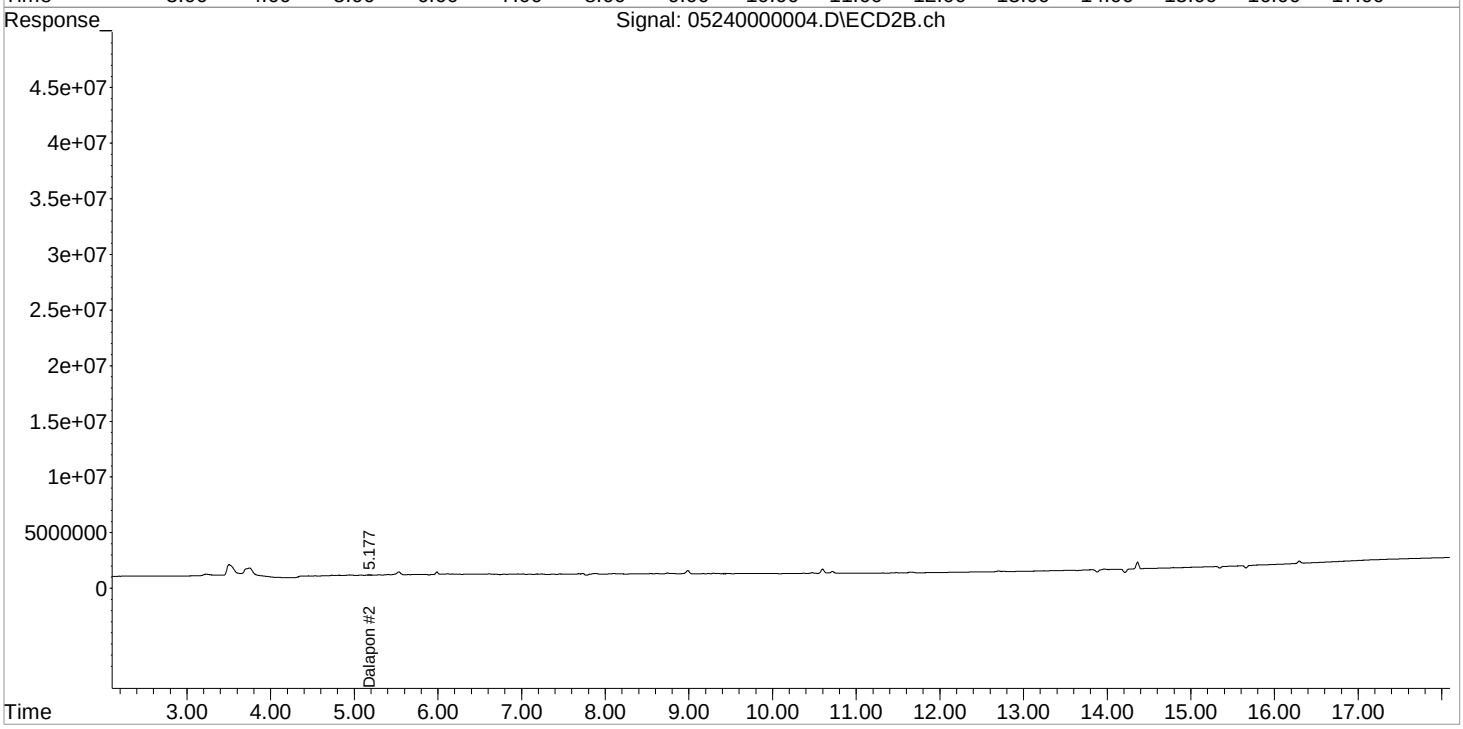
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 12:19:32 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 25 12:51:00 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000018.D\
Lab ID: KQ2109278-05
RunType: CCB
Matrix: Sediment

Date Acquired: 5/24/21 17:56:29
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000018.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 17:56:29	**Vial:**	5
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2109278-05	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**		**Report Group:**	KQ2109278
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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000018.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 17:56:29 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 25 12:51:40 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 : Wed May 12 09:45:39 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	5.177f	152322	125904	0.149	0.226 #
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.

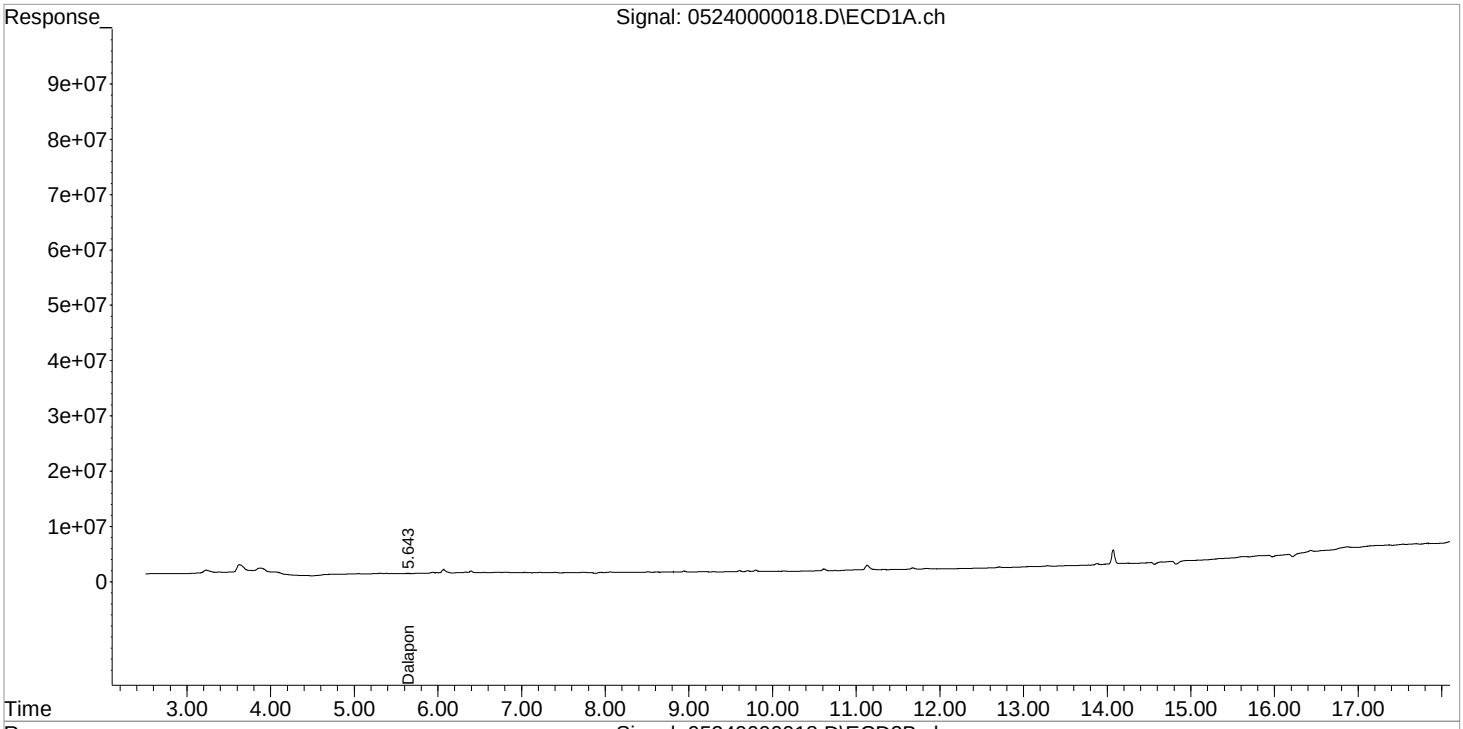
Quantitation Report (QT Reviewed)

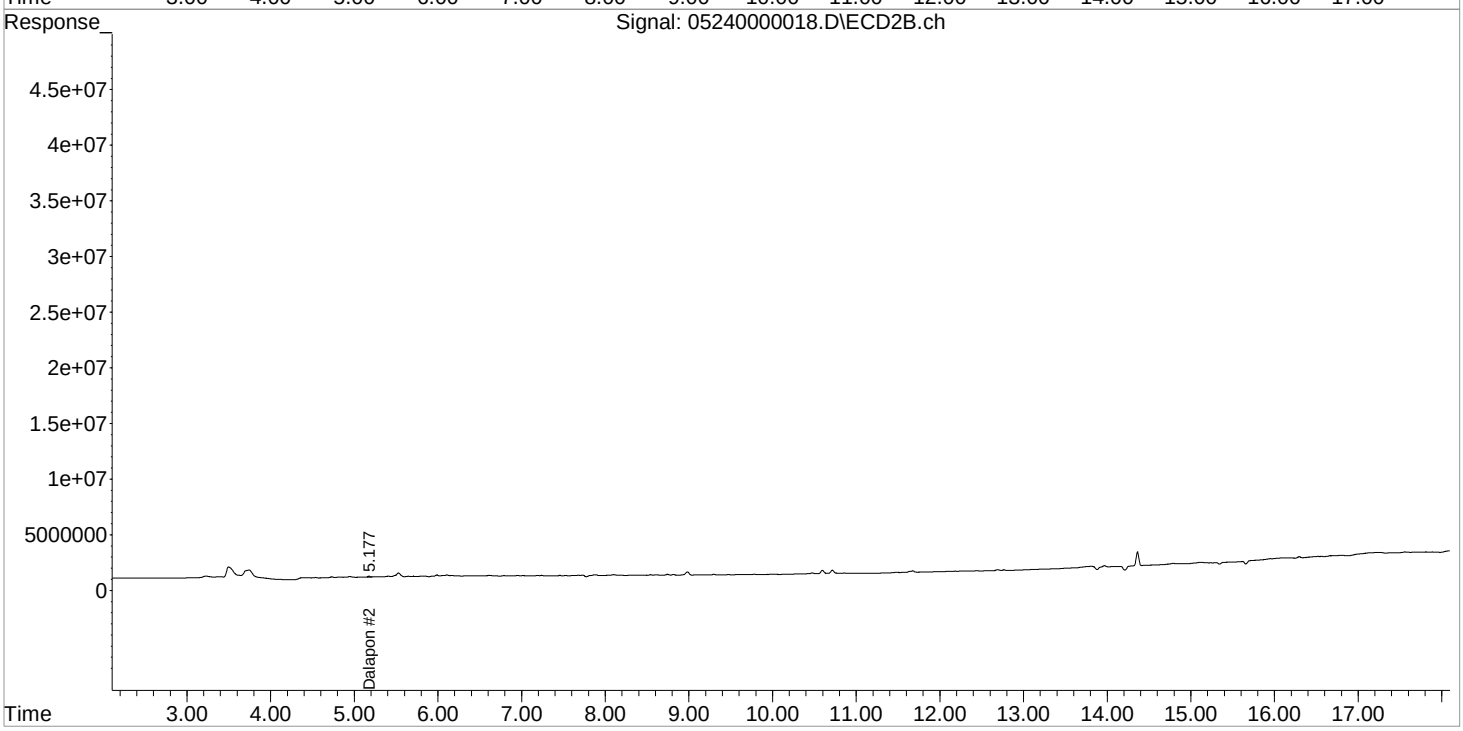
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000018.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 17:56:29 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 25 12:51:40 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000028.D\
Lab ID: KQ2109278-06
RunType: CCB
Matrix: Sediment

Date Acquired: 5/24/21 21:57:00
Batch ID: 724879
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: _____

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000028.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 21:57:00	**Vial:**	6
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2109278-06	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**		**Report Group:**	KQ2109278
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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000028.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 21:57:00 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 25 12:52:27 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 : Wed May 12 09:45:39 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	137635	122057	0.134	0.220 #
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.

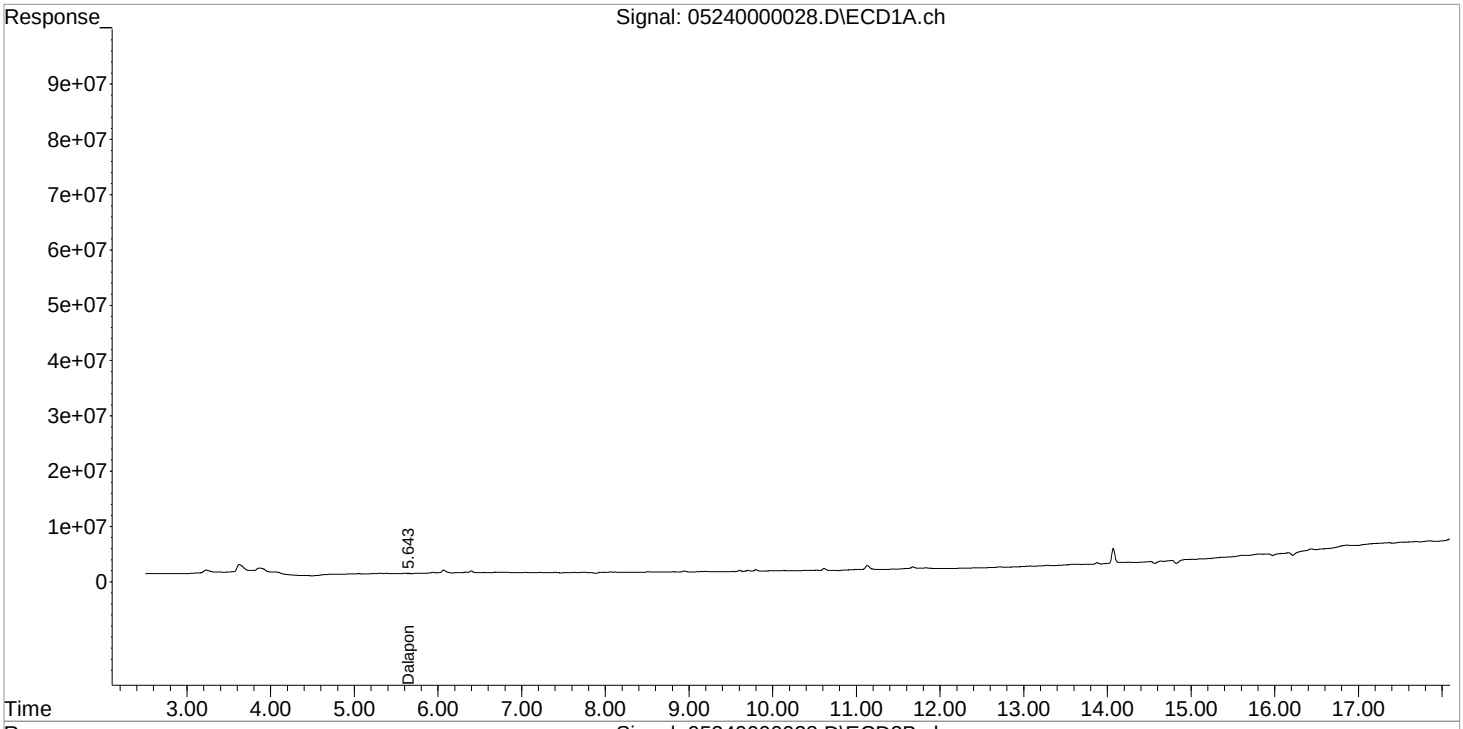
Quantitation Report (QT Reviewed)

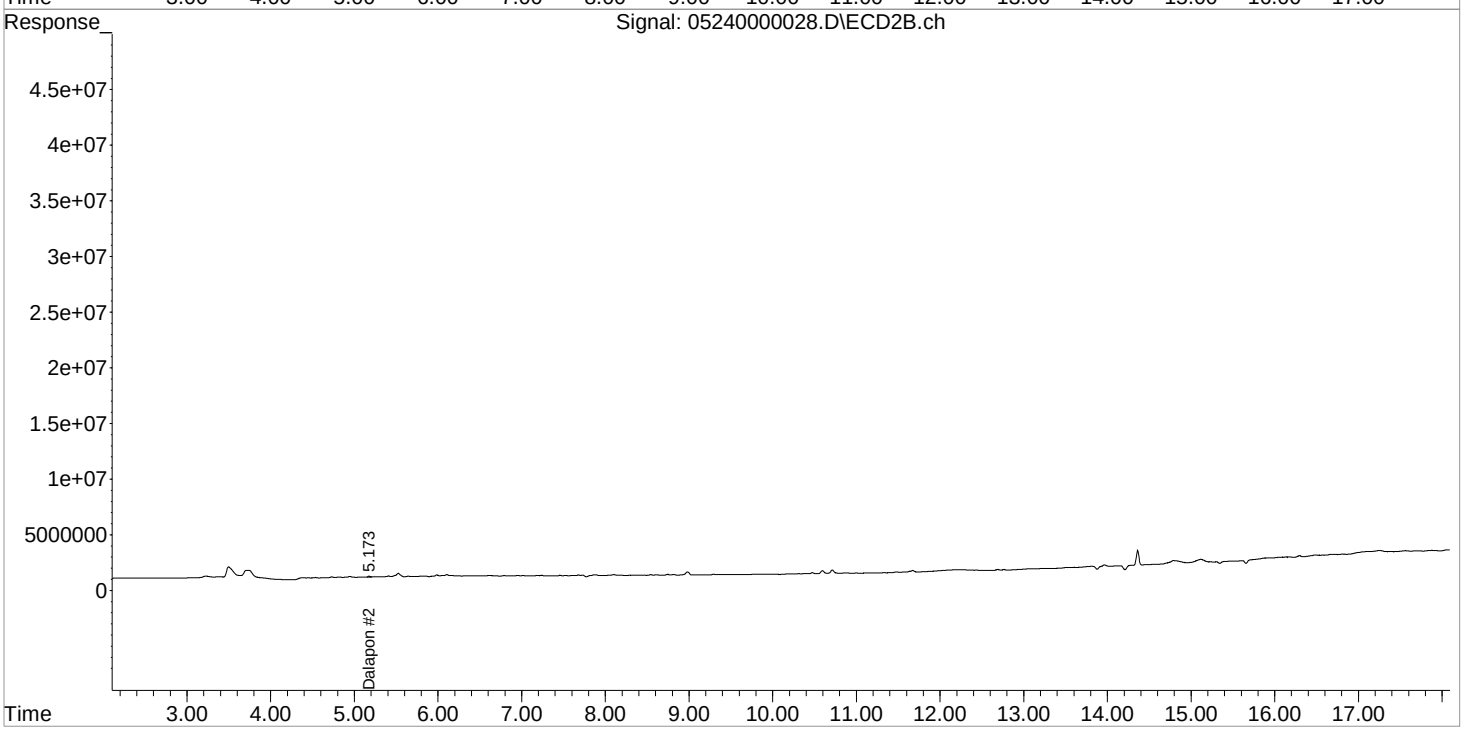
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000028.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 21:57:00 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 25 12:52:27 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000003.D\
Lab ID: KQ2109278-01
RunType: CCV
Matrix: Sediment

Date Acquired: 5/24/21 11:55:25
Batch ID: 724879
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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000003.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 11:55:25	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2109278-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**		**Report Group:**	KQ2109278
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	76187920	37175552	95.444	81.944			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	268318771	133811083	92.106	79.466	92.1	79.5	Y
2,4-D	11.27	10.90	58178147	30605316	87.068	75.611	87.1	75.6	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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 11:55:25 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 25 07:15:17 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	76187920	37175552	95.444	81.944
		Target Compounds						
1)	m	Dalapon	5.587	5.227	92940644	47473697	90.680	85.399
3)	m	Dicamba	10.283	9.903	267.0E6	131.7E6	103.251	89.585
4)	m	MCPP	10.430	9.967	35089493	16314084	10693.969	9411.583
5)	m	MCPA	10.593	10.207	46845944	23153365	9415.202	8206.669
6)	m	Dichloroprop	11.020	10.580	69949592	36260515	98.548	87.128
7)	m	2,4-D	11.267	10.897	58178147	30605316	87.068	75.611
8)	m	2,4,5-TP ...	12.190	11.760	268.3E6	133.8E6	92.106	79.466
9)	m	2,4,5-T	12.483	12.153	164.4E6	81883879	76.138	65.902
10)	m	2,4-DB	13.050	12.670	17695997	9316663	80.476	70.455
11)	m	Dinoseb	14.283	13.030	152.9E6	77063302	78.652	67.299

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

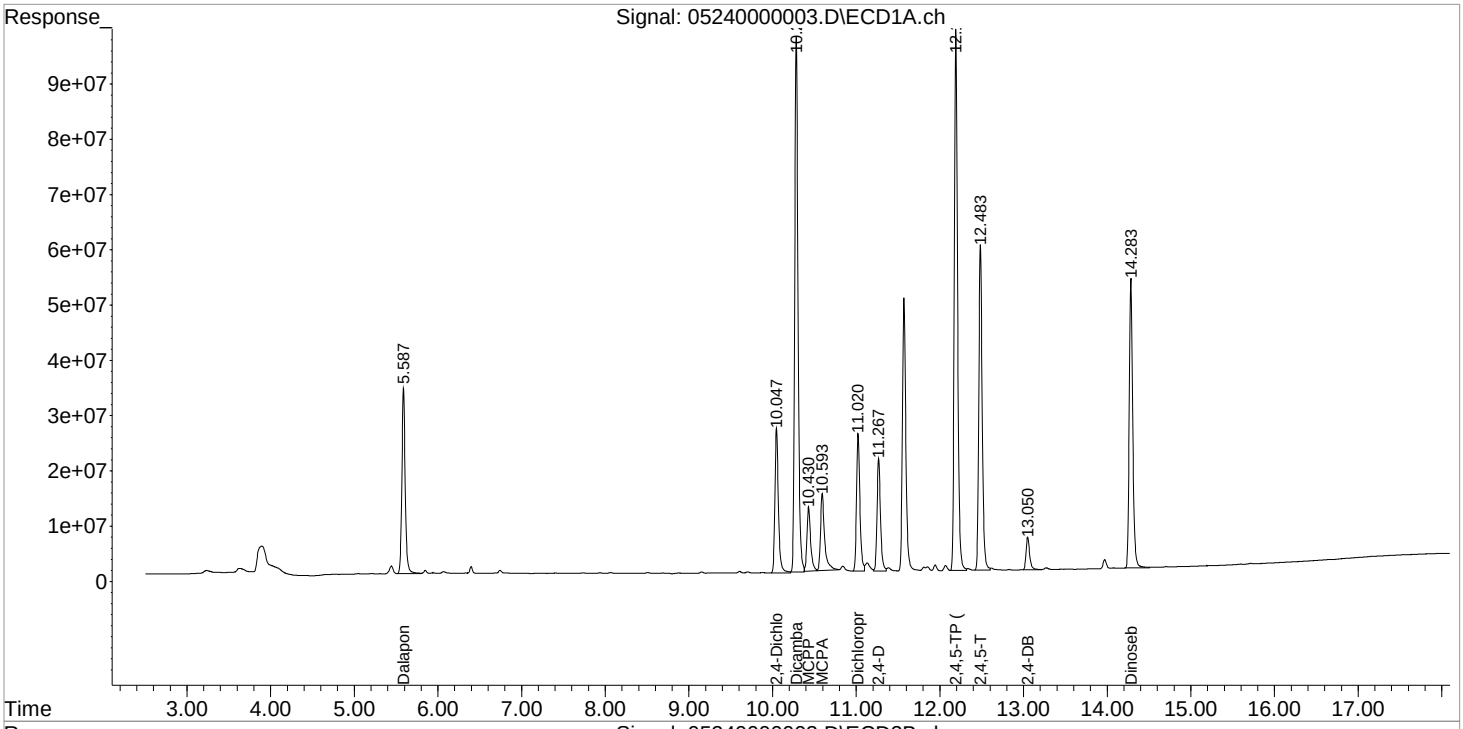
Quantitation Report (QT Reviewed)

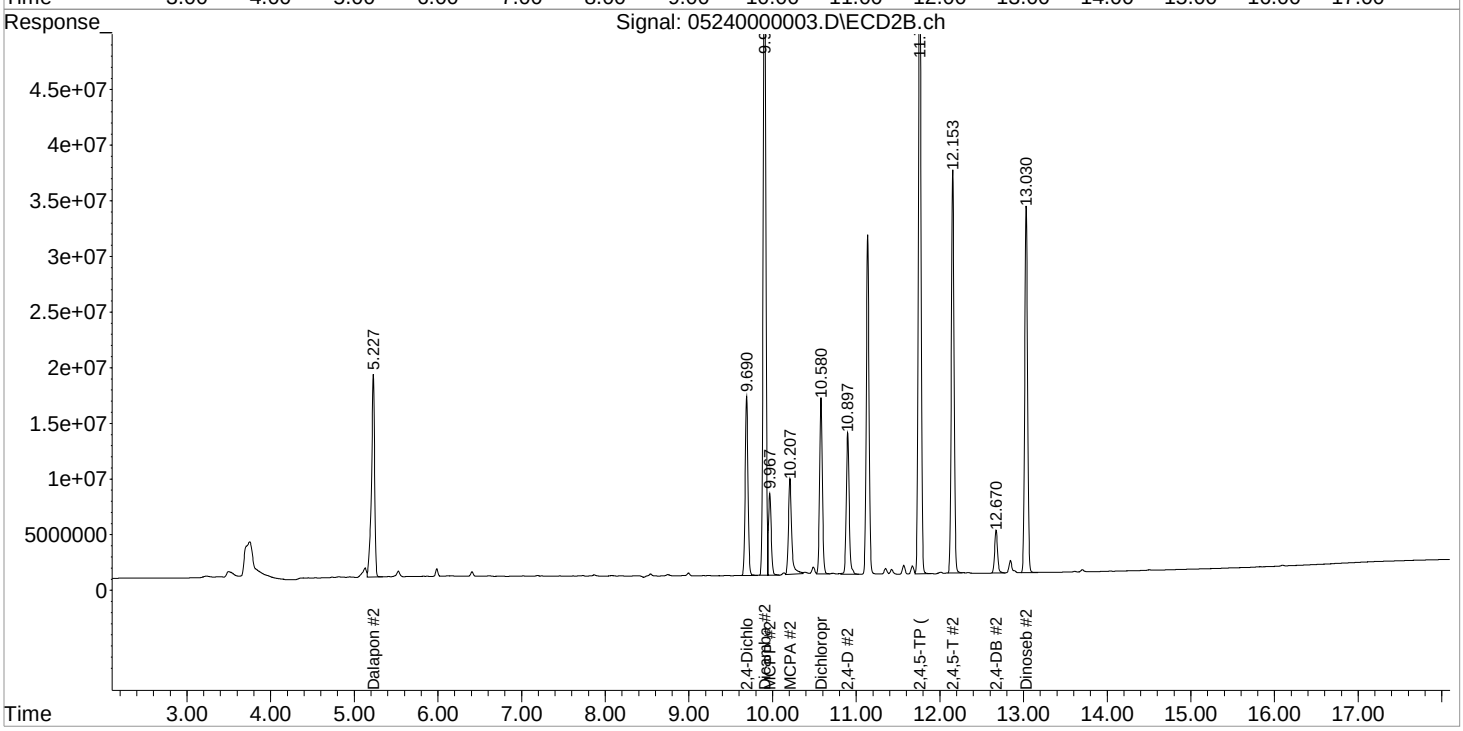
1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 11:55:25 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 25 07:15:17 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000017.D\
Lab ID: KQ2109278-02
RunType: CCV
Matrix: Sediment

Date Acquired: 5/24/21 17:32:31
Batch ID: 724879
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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000017.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 17:32:31	**Vial:**	2
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2109278-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**		**Report Group:**	KQ2109278
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	80361319	38539499	100.673	84.950			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	313589520	155620454	107.647	92.418	108	92.4	Y
2,4-D	11.26	10.89	65993969	33962129	98.765	83.904	98.8	83.9	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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000017.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 17:32:31 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 25 07:15:58 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 : Wed May 12 09:45:39 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	80361319	38539499	100.673	84.950
		Target Compounds						
1)	m	Dalapon	5.583	5.223	93914916	47680782	91.631	85.772
3)	m	Dicamba	10.280	9.900	273.2E6	135.9E6	105.623	92.480
4)	m	MCPP	10.427	9.963	36711257	16315245	11223.801	9412.306
5)	m	MCPA	10.590	10.203	50837125	23403261	10304.595	8304.792
6)	m	Dichloroprop	11.020	10.573	75747454	38016632	106.716	91.481
7)	m	2,4-D	11.263	10.893	65993969	33962129	98.765	83.904
8)	m	2,4,5-TP ...	12.187	11.757	313.6E6	155.6E6	107.647	92.418
9)	m	2,4,5-T	12.480	12.150	206.7E6	102.0E6	95.757	82.086
10)	m	2,4-DB	13.047	12.670	24843615	11329673	112.981	85.678
11)	m	Dinoseb	14.280	13.027	182.9E6	93688855	94.089	81.818

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

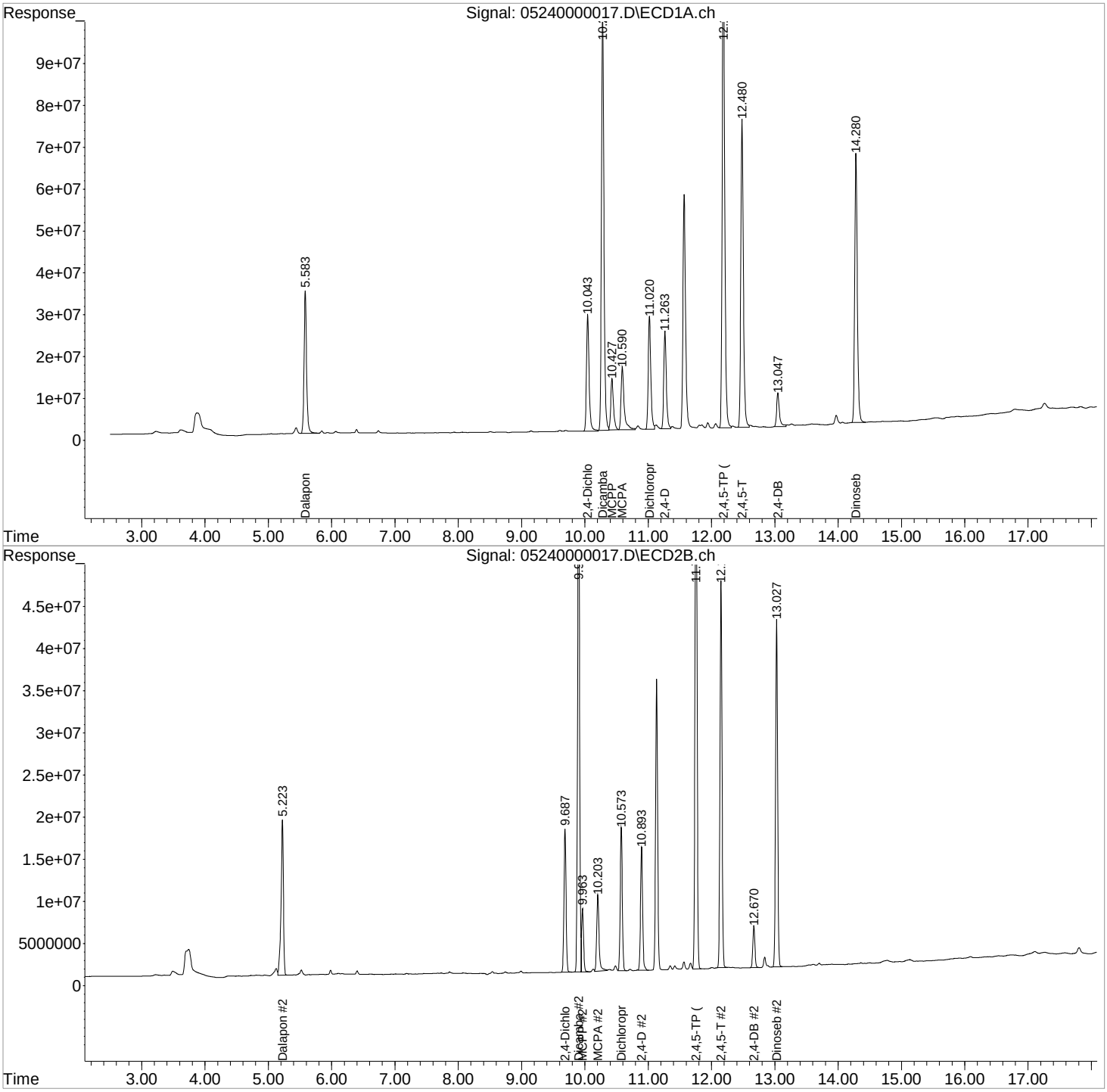
Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000017.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 17:32:31 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 25 07:15:58 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 : Wed May 12 09:45:39 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 05/25/21
2nd JW 05/25/21

Validation Report

Data File: J:\GC34\DATA\052421-HB\05240000027.D\
Lab ID: KQ2109278-03
RunType: CCV
Matrix: Sediment

Date Acquired: 5/24/21 21:33:03
Batch ID: 724879
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: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st TP 05/25/21
2nd JW 05/25/21

Quantitation Report

Data File:	J:\GC34\DATA\052421-HB\05240000027.D\	**Instrument:**	K-GC-34
Acqu Date:	5/24/21 21:33:03	**Vial:**	3
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2109278-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	5/2/21	**Receive Date:**	5/3/21

Analysis Lot:	724879	**Prep Lot:**		**Report Group:**	KQ2109278
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	82857867	39410375	103.800	86.870			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	324161162	160058914	111.276	95.054	111	95.1	Y
2,4-D	11.26	10.90	68106488	34415962	101.926	85.025	102	85.0	Y

Prep Amount:	30.00 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	100.00

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

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

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

Printed: 5/25/21 13:32
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st TP 05/25/21
2nd JW 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000027.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 21:33:03 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 25 07:16:29 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 : Wed May 12 09:45:39 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	82857867	39410375	103.800	86.870	
		Target Compounds							
1)	m	Dalapon	5.587	5.227	94362552	47888046	92.068	86.145	
3)	m	Dicamba	10.280	9.900	284.2E6	138.7E6	109.896	94.397	
4)	m	MCPP	10.427	9.963	38698566	16230451	11873.056	9359.494	
5)	m	MCPA	10.590	10.203	51916385	23720787	10545.097	8429.470	
6)	m	Dichloroprop	11.020	10.577	78296853	38667516	110.308	93.094	
7)	m	2,4-D	11.263	10.897	68106488	34415962	101.926	85.025	
8)	m	2,4,5-TP ...	12.187	11.757	324.2E6	160.1E6	111.276	95.054	
9)	m	2,4,5-T	12.480	12.150	216.4E6	105.0E6	100.220	84.488	
10)	m	2,4-DB	13.047	12.670	26593329	11846973	120.938	89.590	#
11)	m	Dinoseb	14.280	13.030	199.1E6	96703130	102.420	84.450	

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

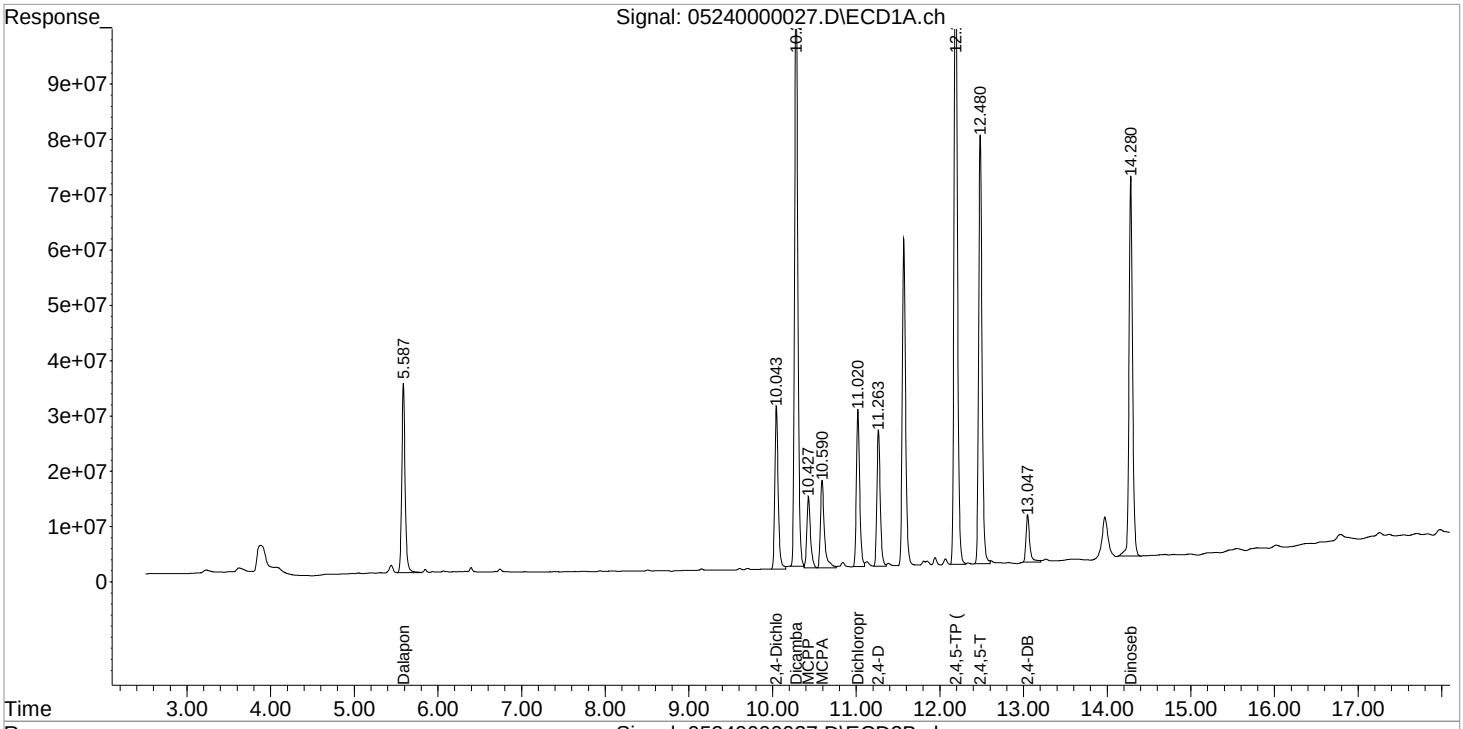
Quantitation Report (QT Reviewed)

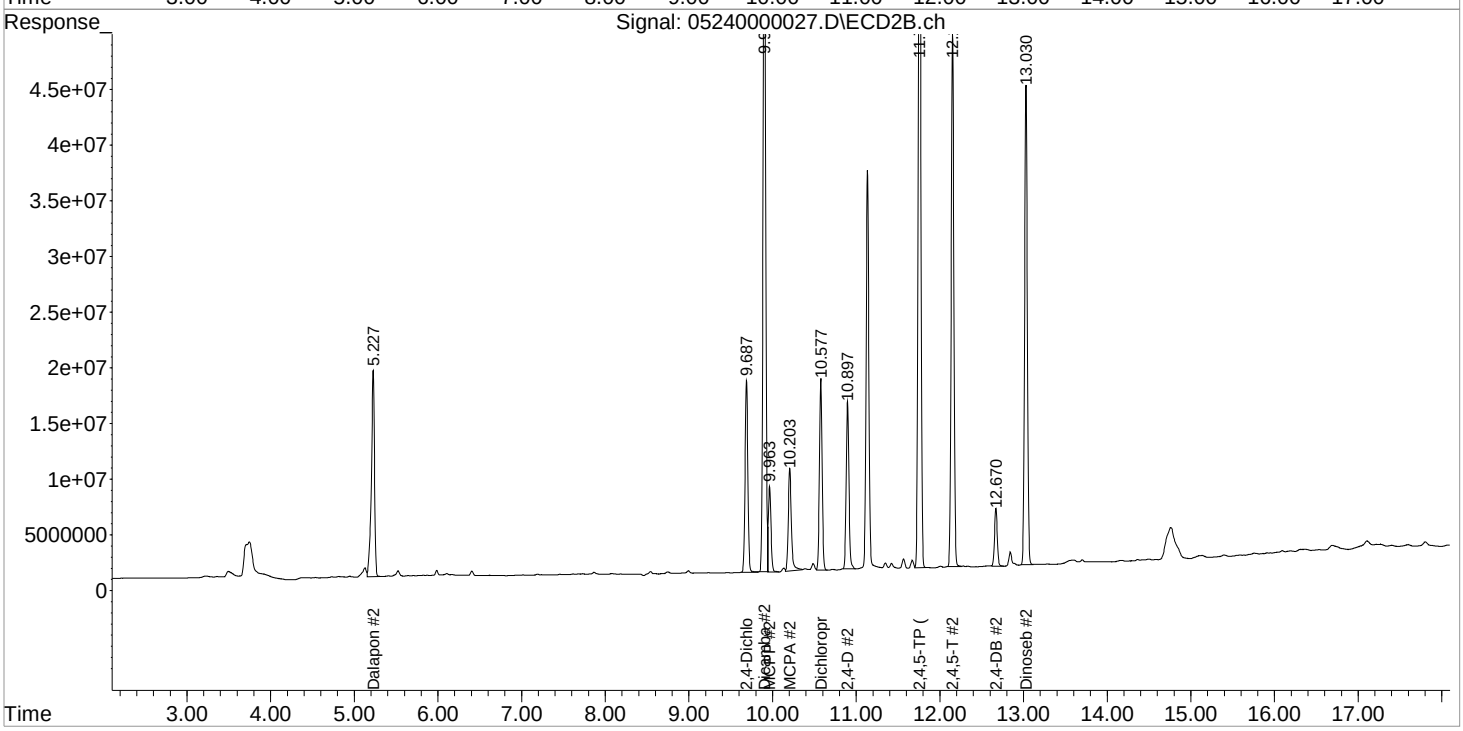
1st TP 05/25/21
2nd 05/25/21

Data File : J:\GC34\DATA\052421-HB\05240000027.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24-May-2021, 21:33:03 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 25 07:16:29 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 : Wed May 12 09:45:39 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.

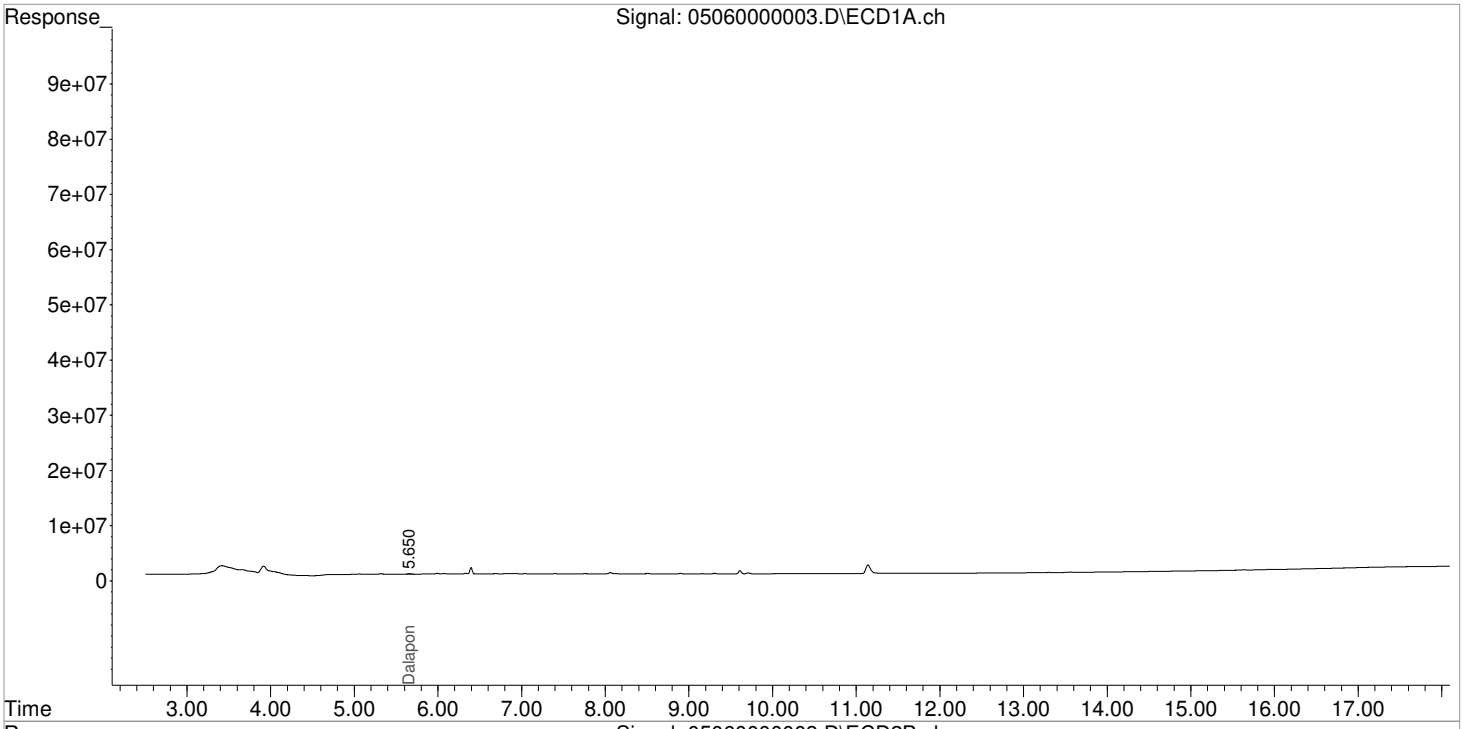
Quantitation Report (QT Reviewed)

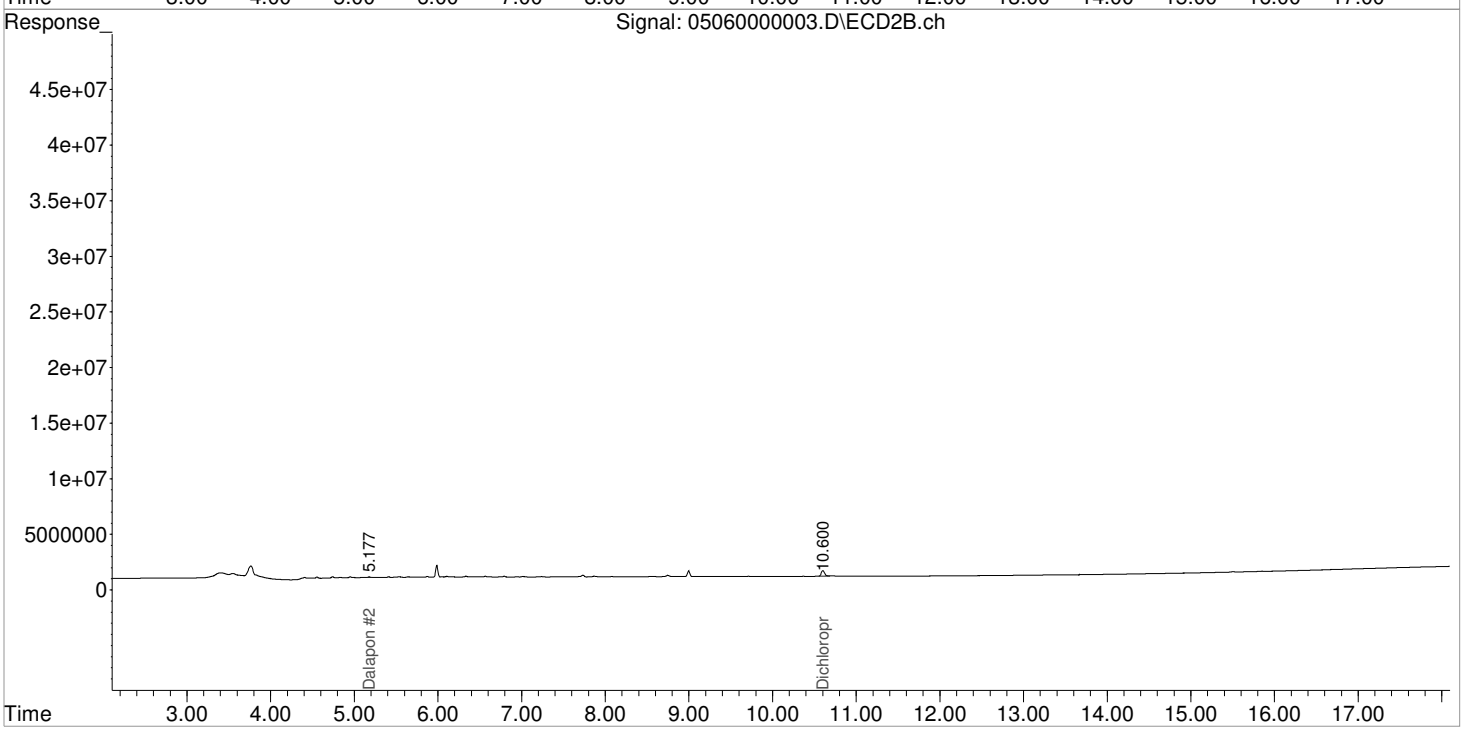
1st JTC 05/06/21
2nd 4w 05/06/21

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.

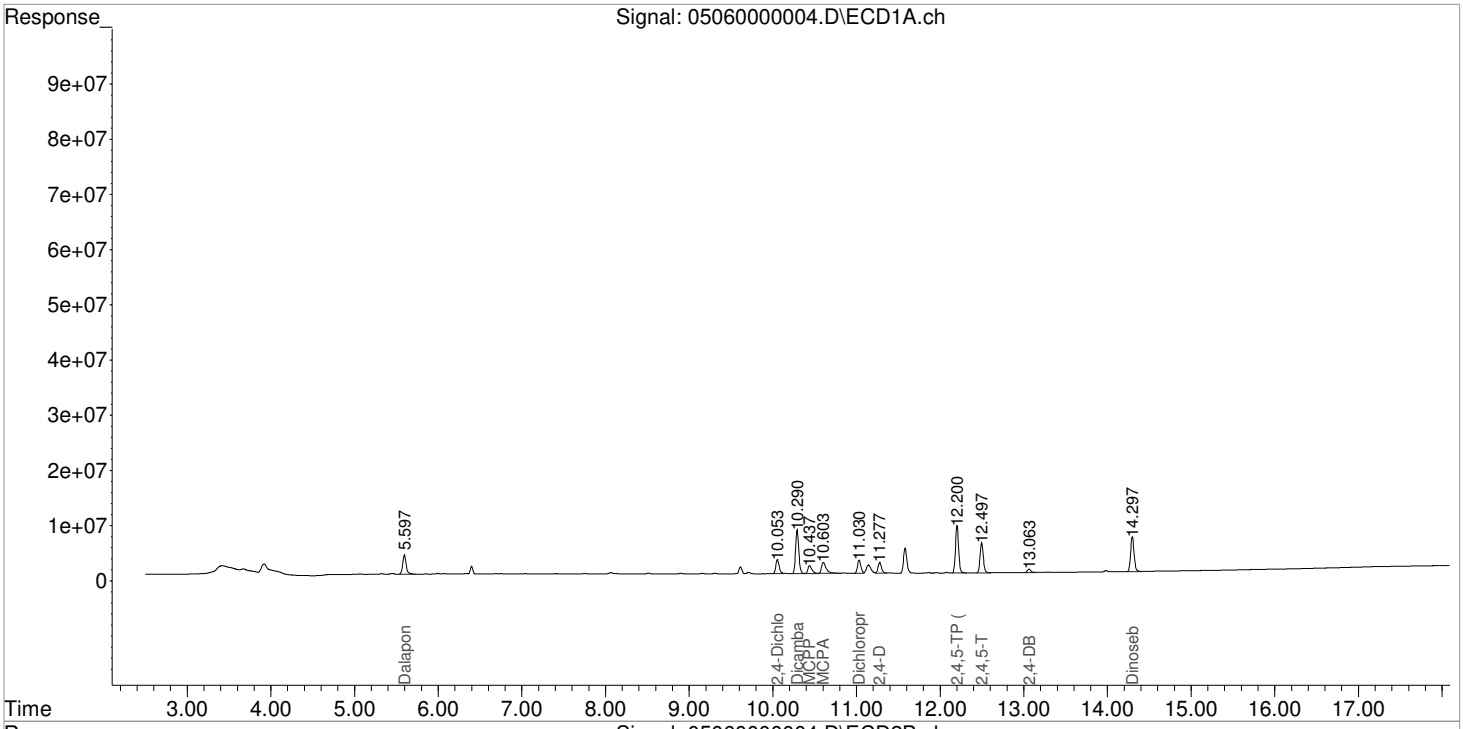
Quantitation Report (QT Reviewed)

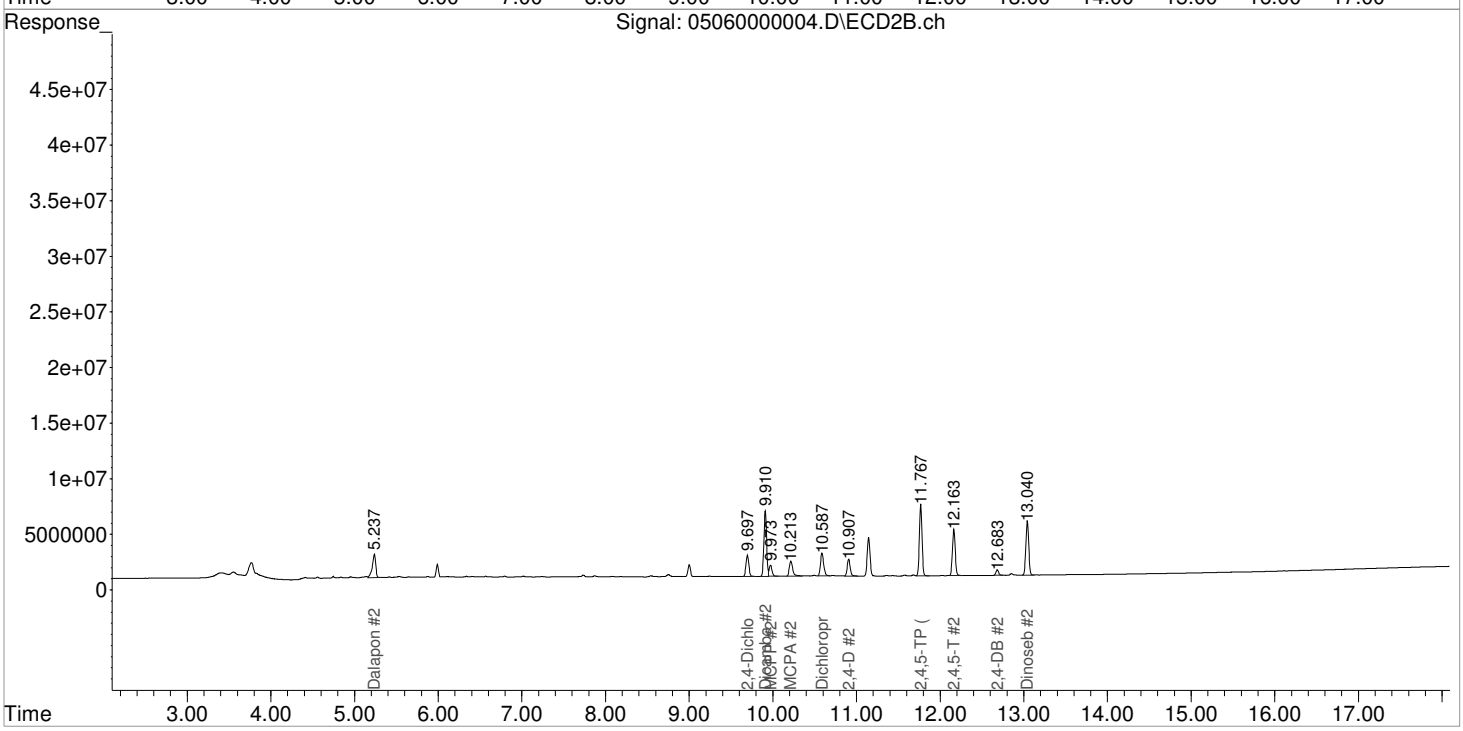
1st JTC 05/06/21
2nd 4w 05/06/21

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





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.

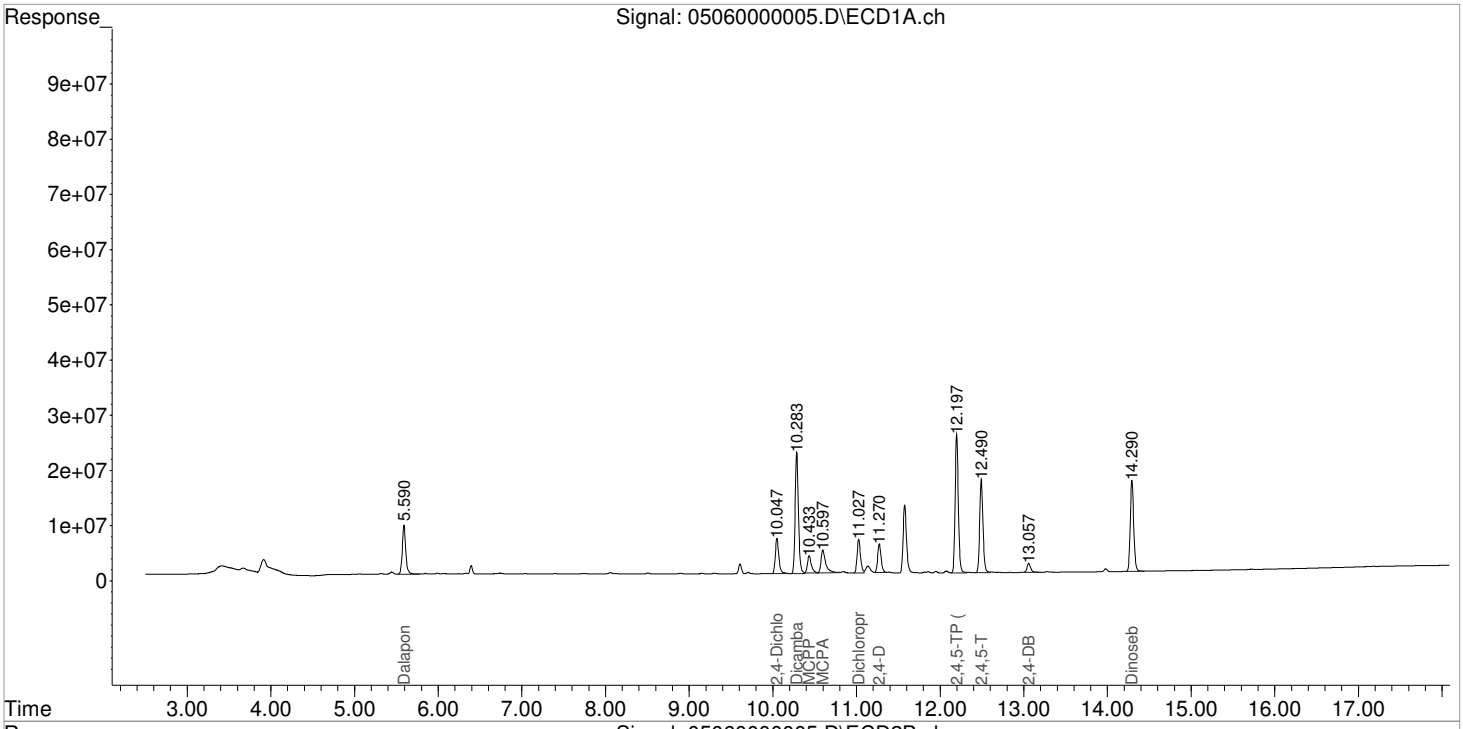
Quantitation Report (QT Reviewed)

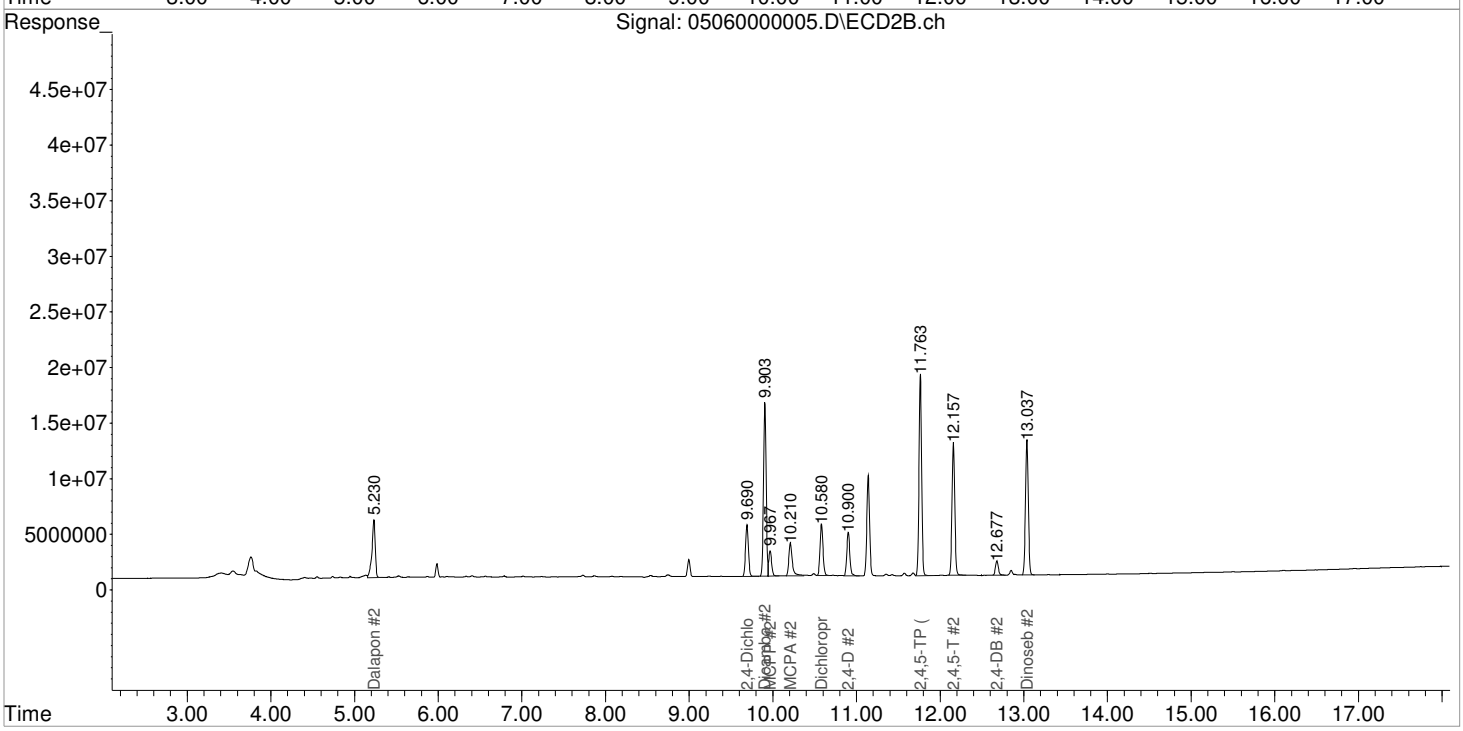
1st JTC 05/06/21
2nd 4w 05/06/21

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





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.

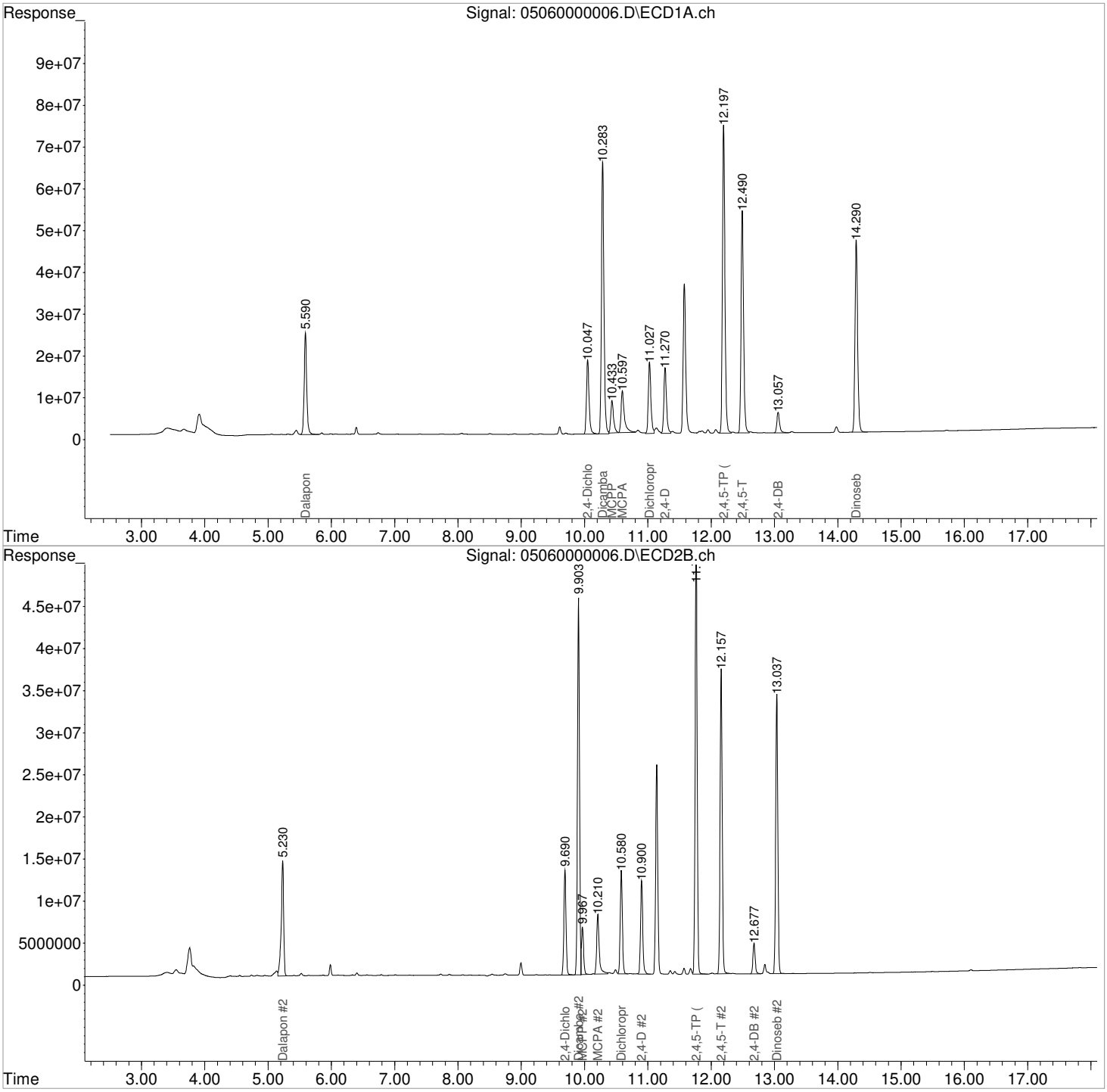
Quantitation Report (QT Reviewed)

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



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.

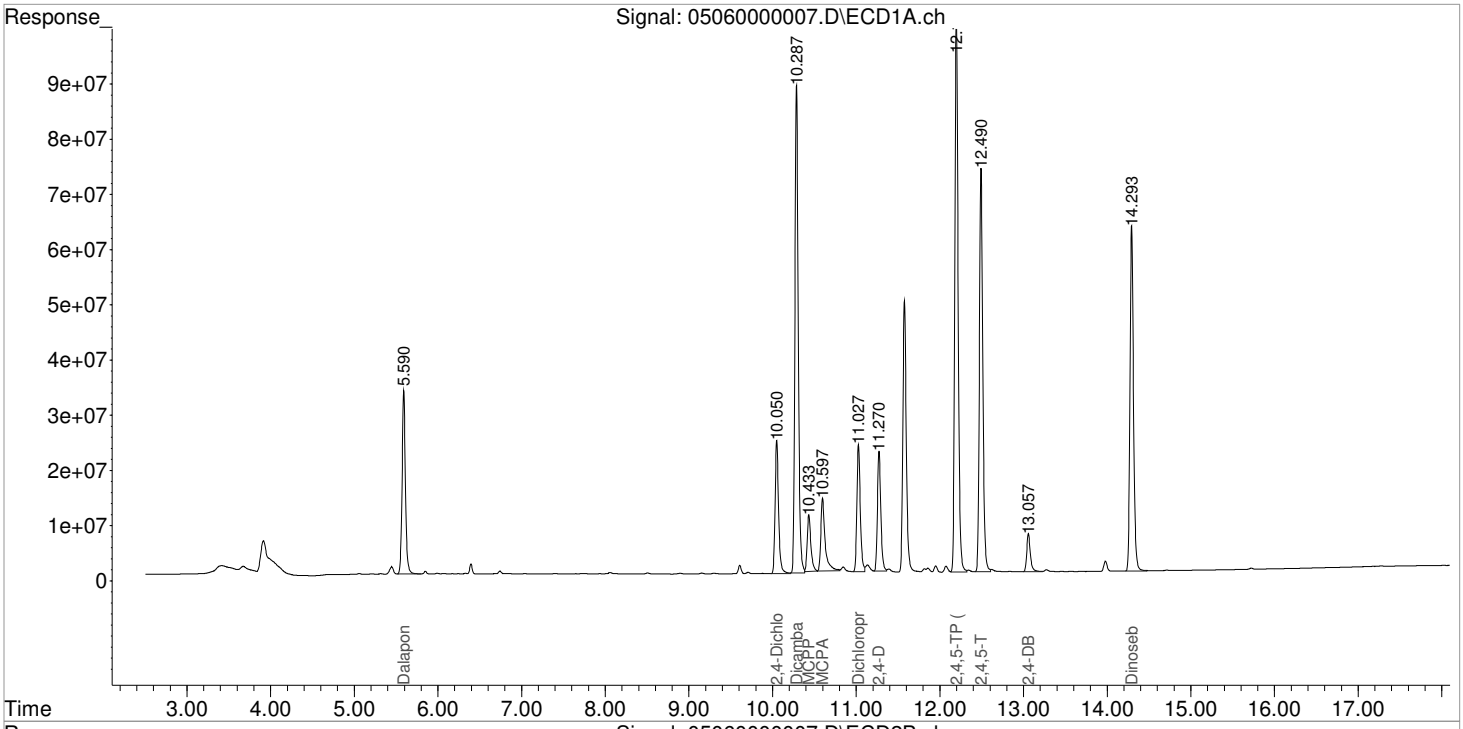
Quantitation Report (QT Reviewed)

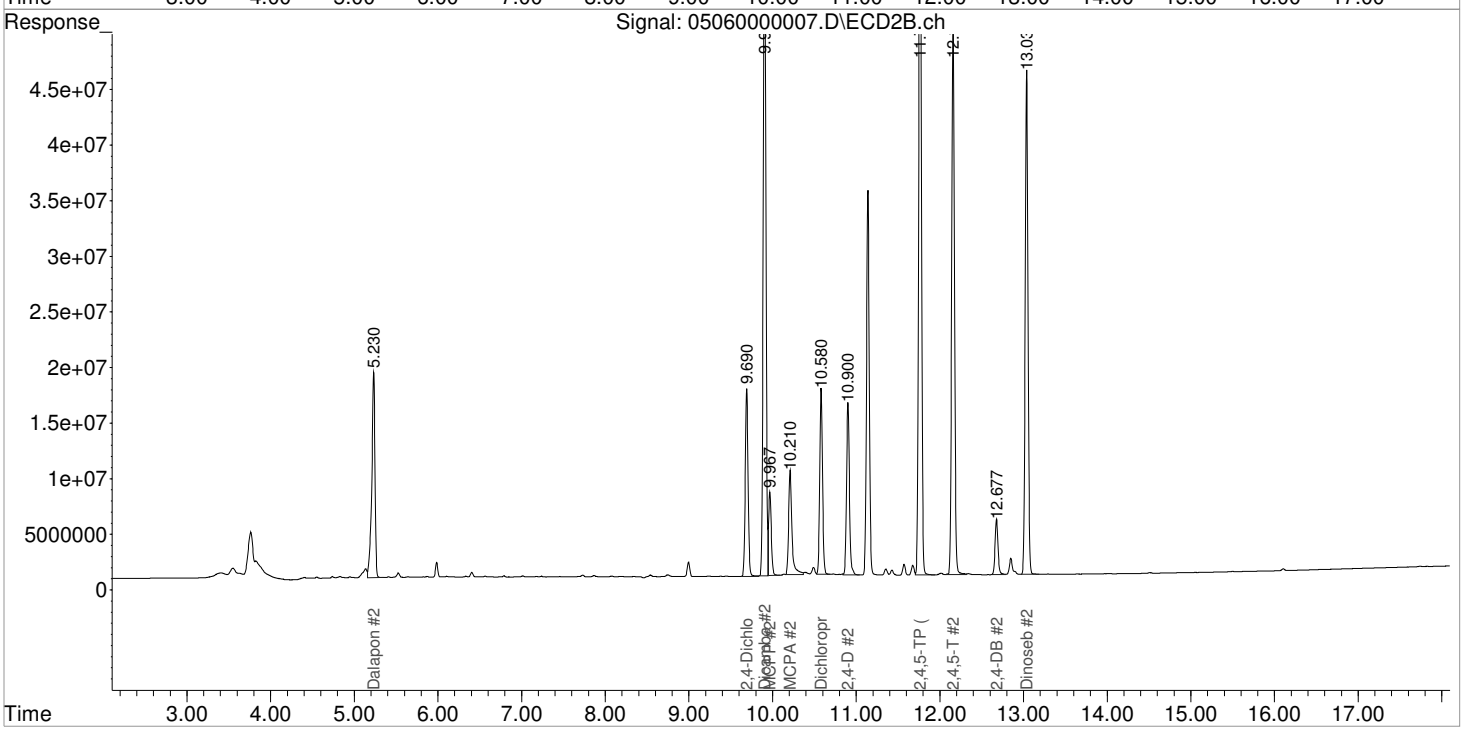
1st JTC 05/06/21
2nd 4w 05/06/21

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





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.

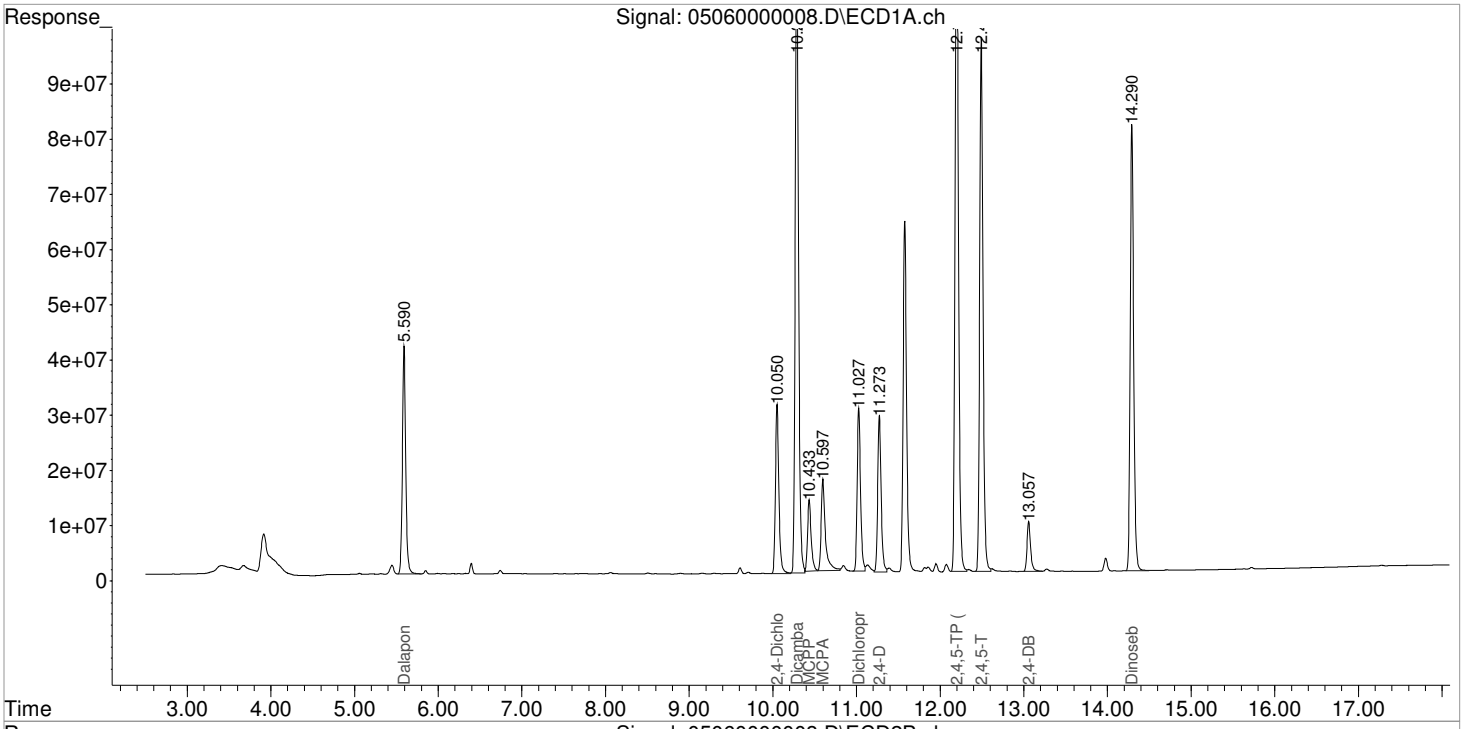
Quantitation Report (QT Reviewed)

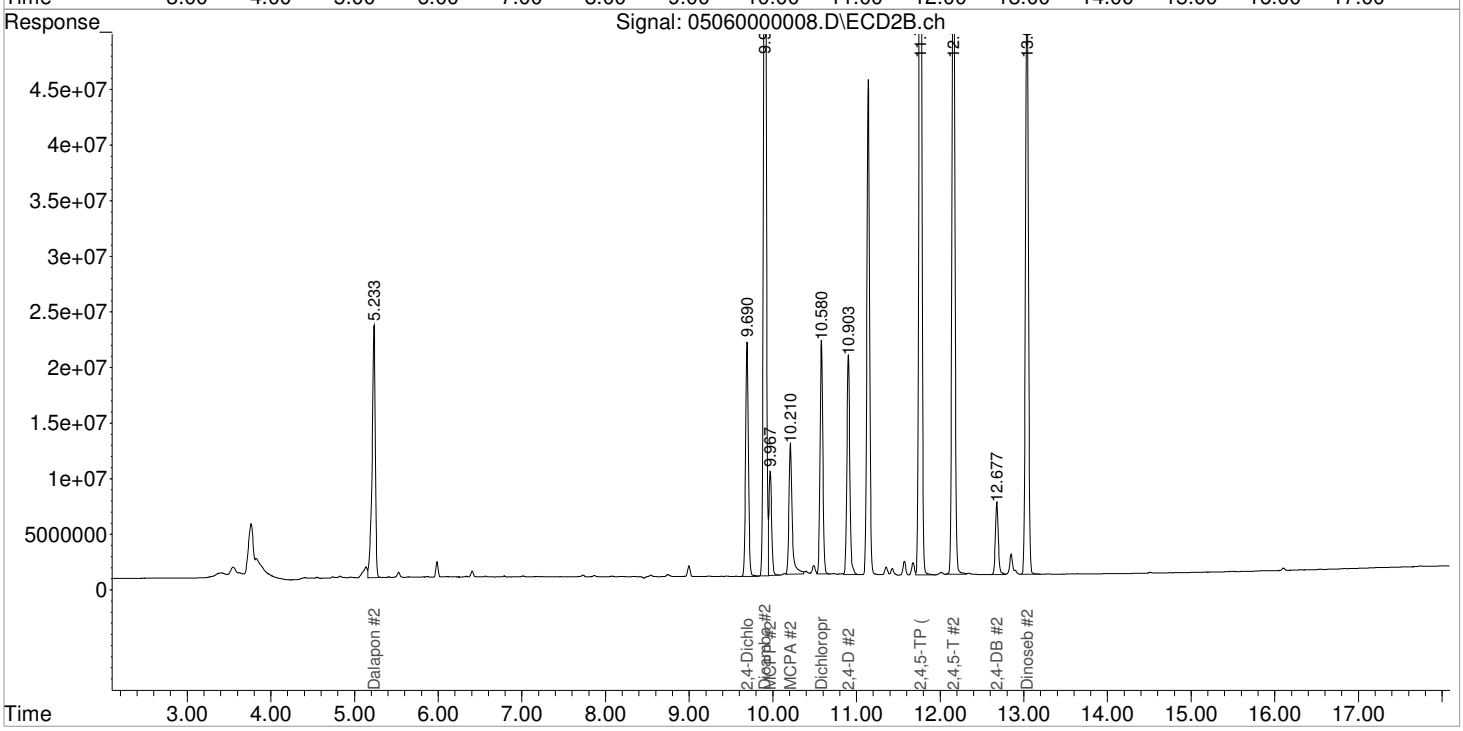
1st JTC 05/06/21
2nd 4w 05/06/21

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.

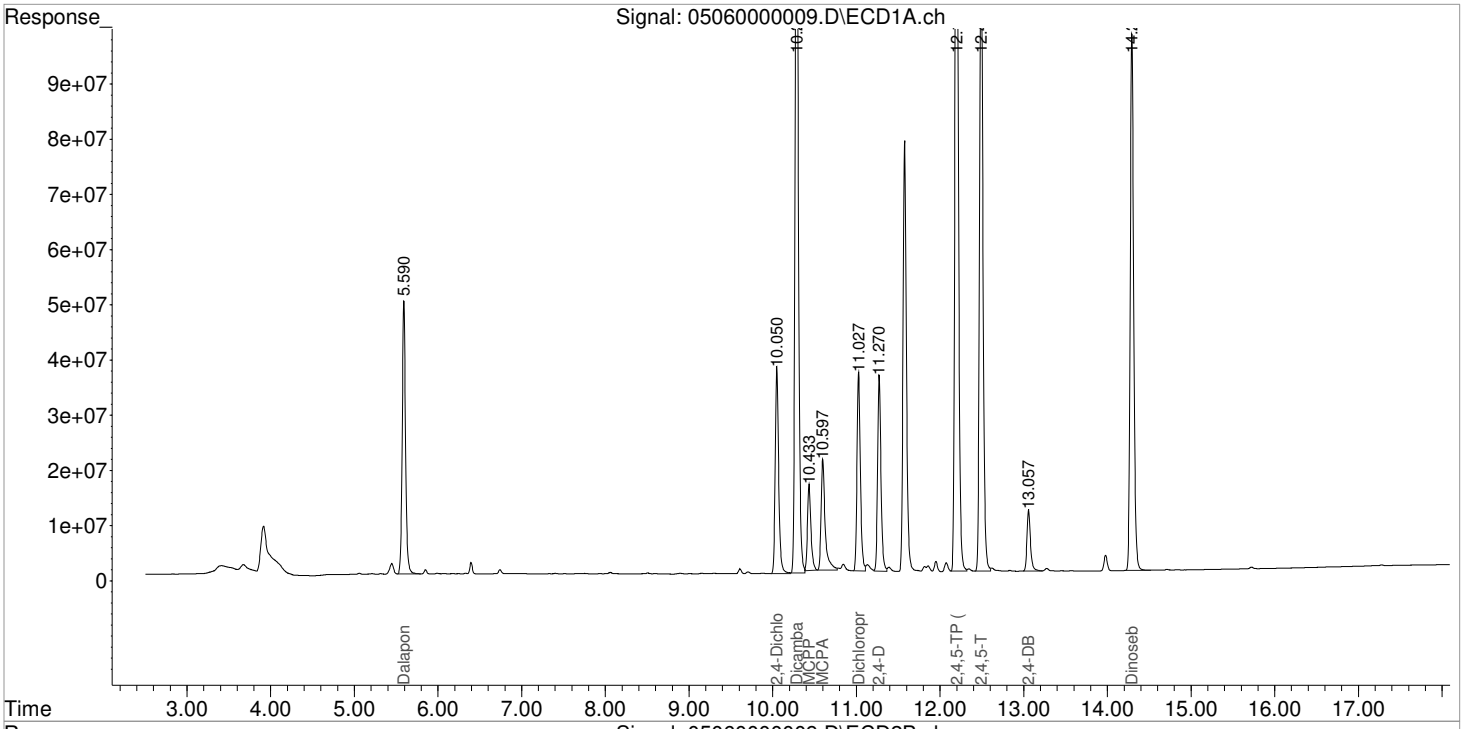
Quantitation Report (QT Reviewed)

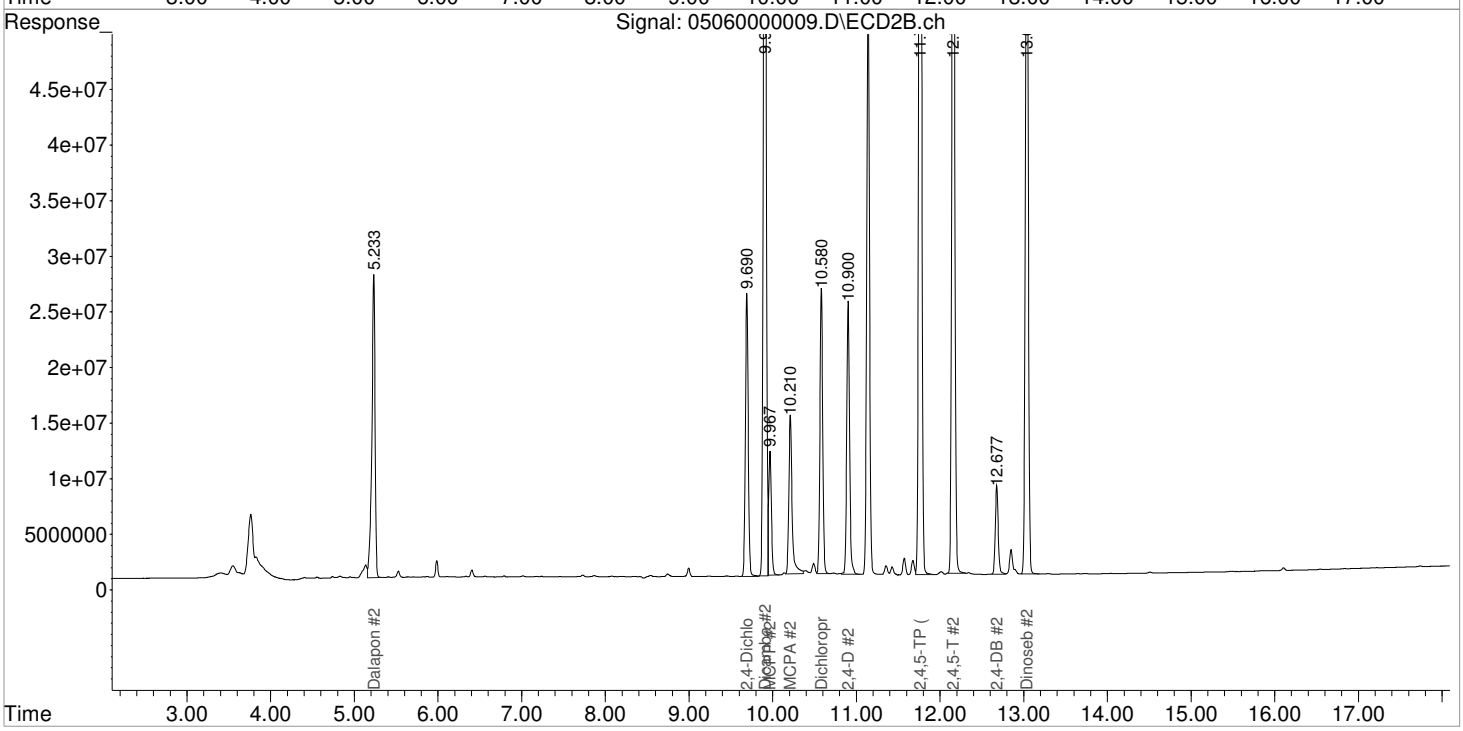
1st JTC 05/06/21
2nd 4w 05/06/21

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.

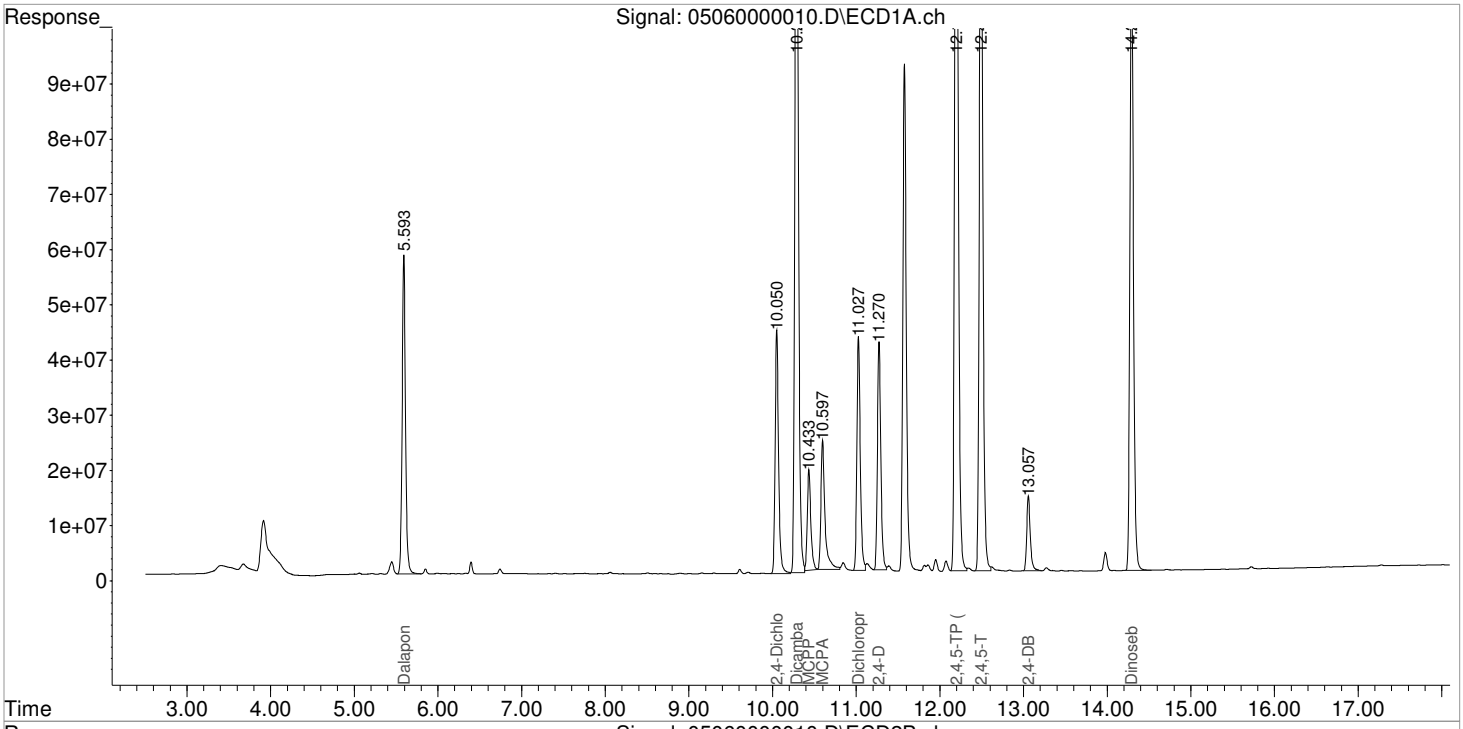
Quantitation Report (QT Reviewed)

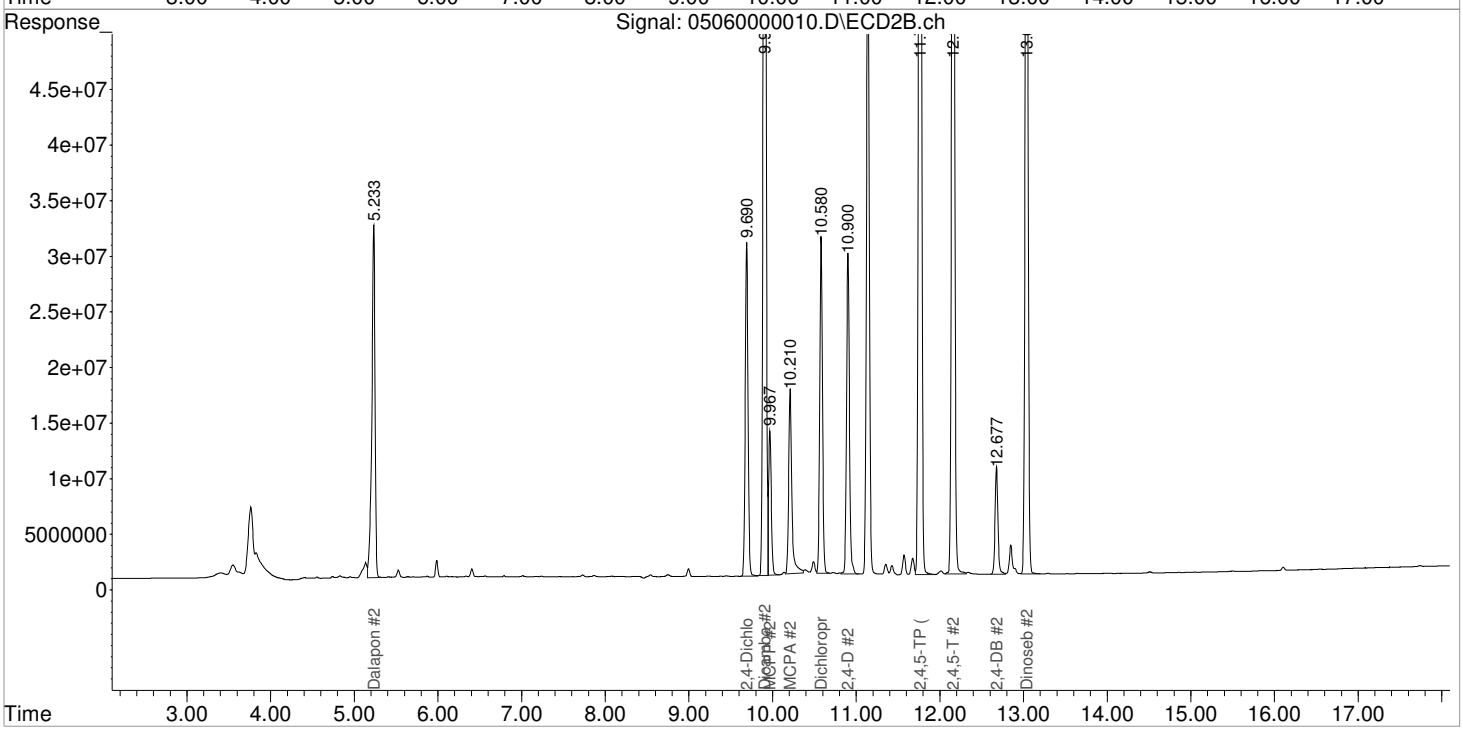
1st JTC 05/06/21
2nd 4w 05/06/21

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





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.

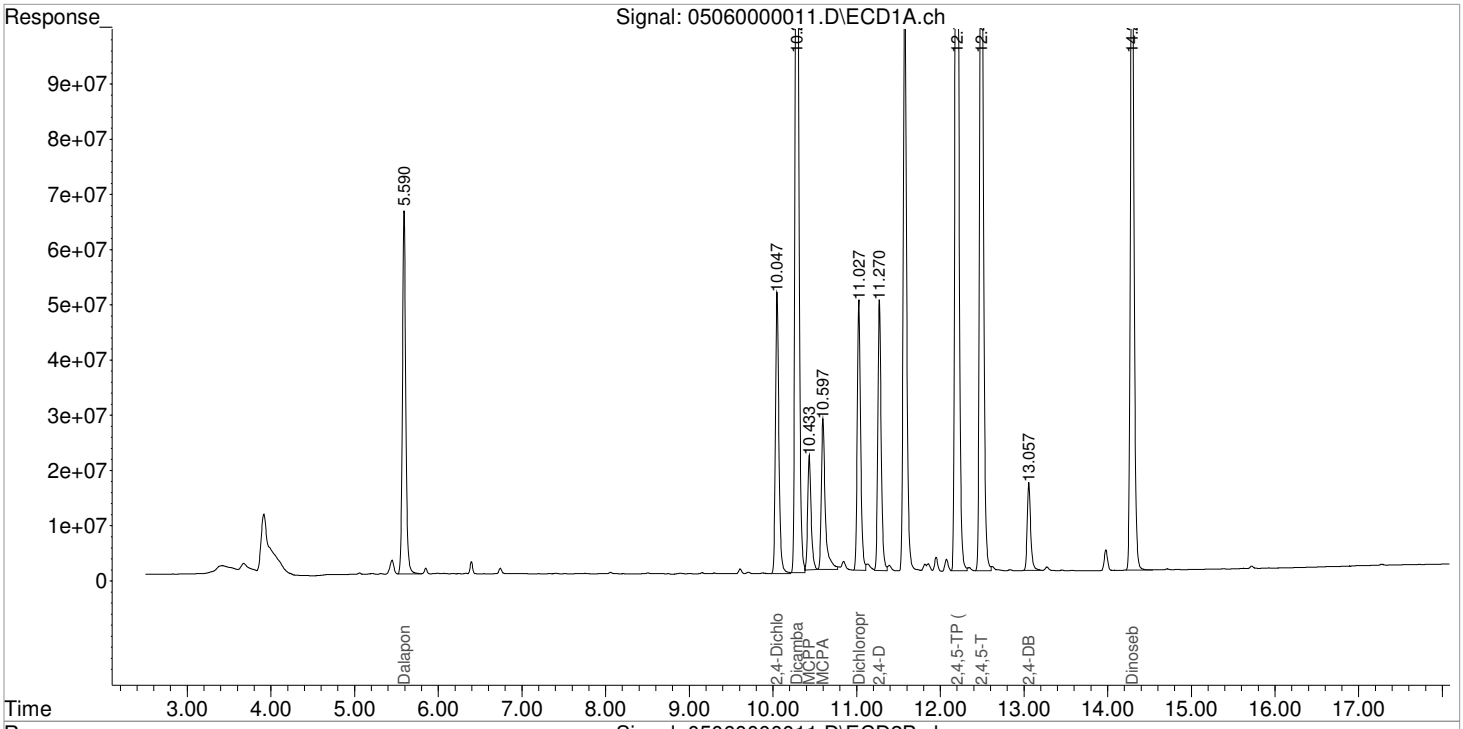
Quantitation Report (QT Reviewed)

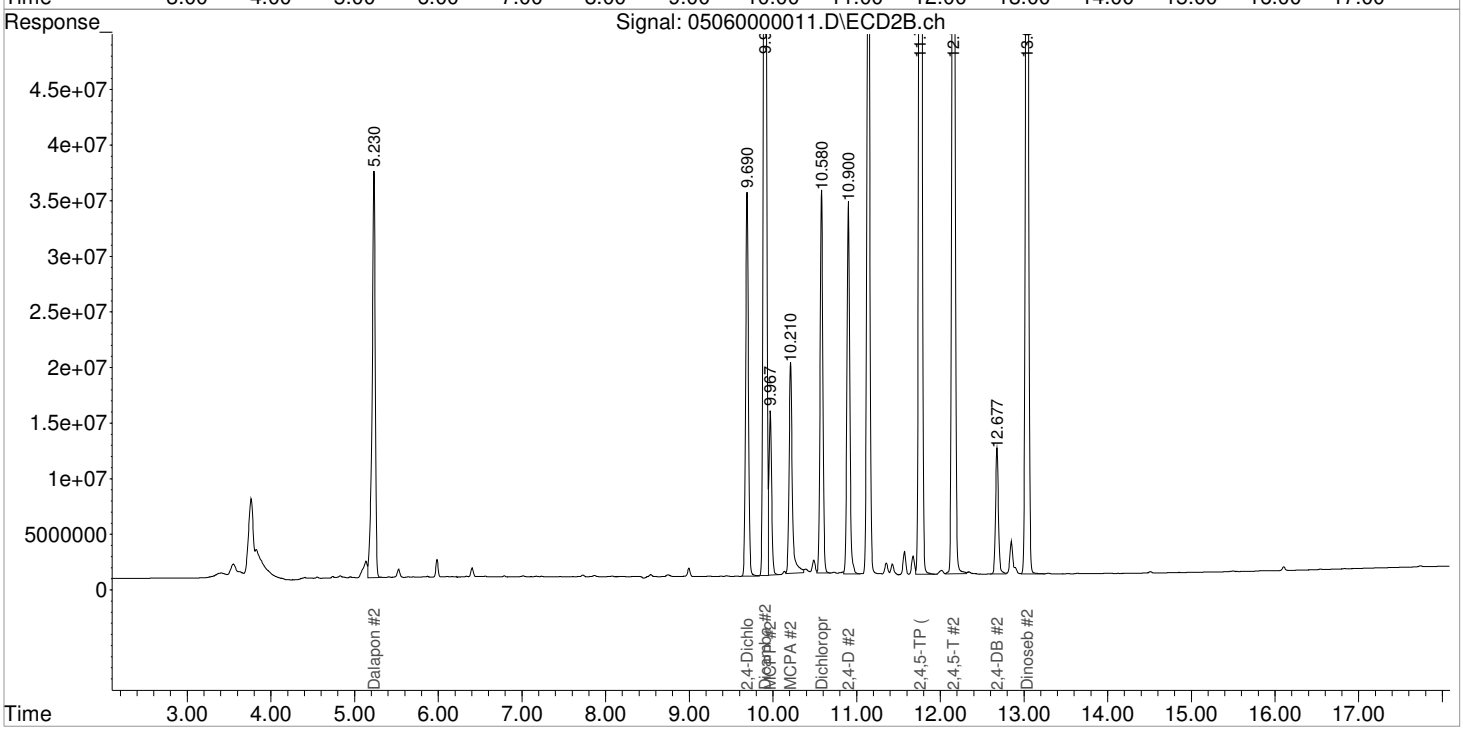
1st JTC 05/06/21
2nd 4w 05/06/21

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





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.

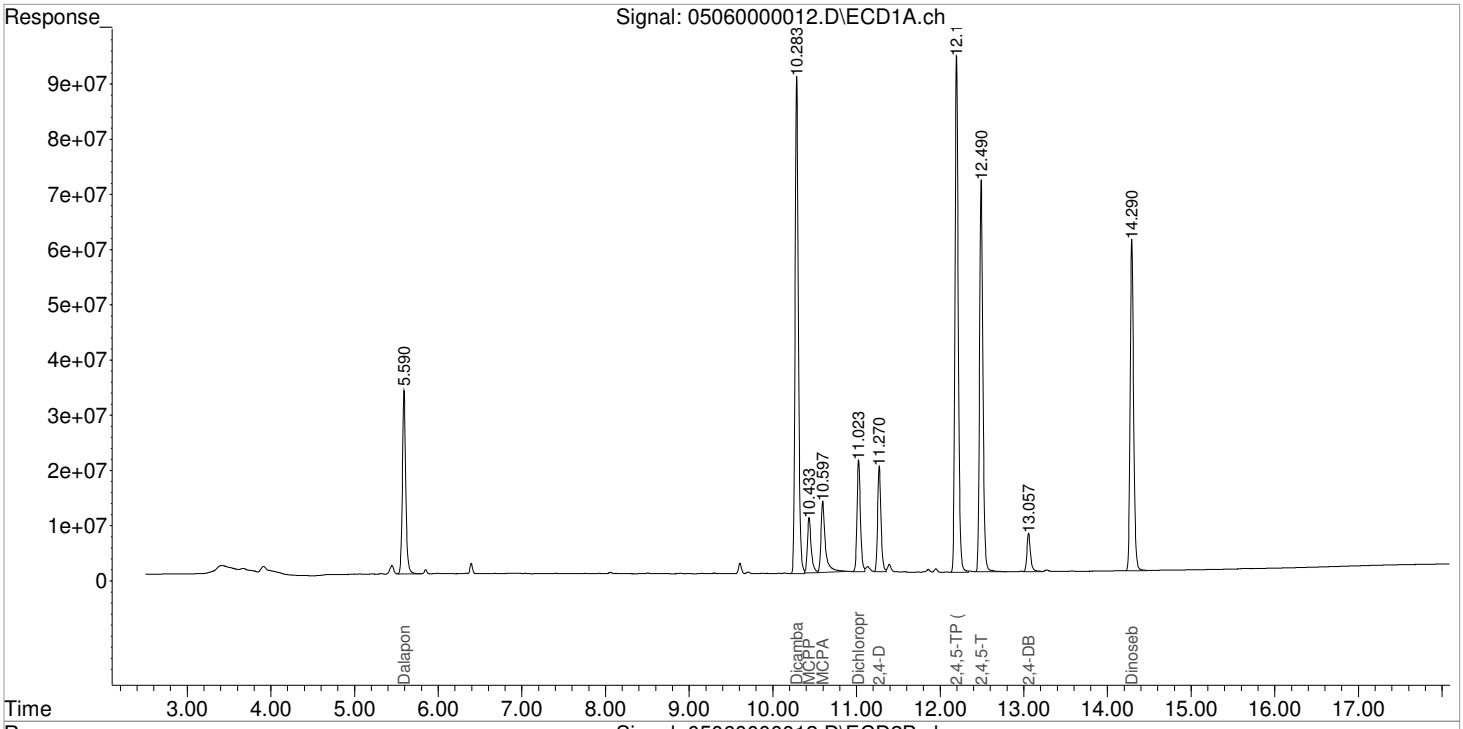
Quantitation Report (QT Reviewed)

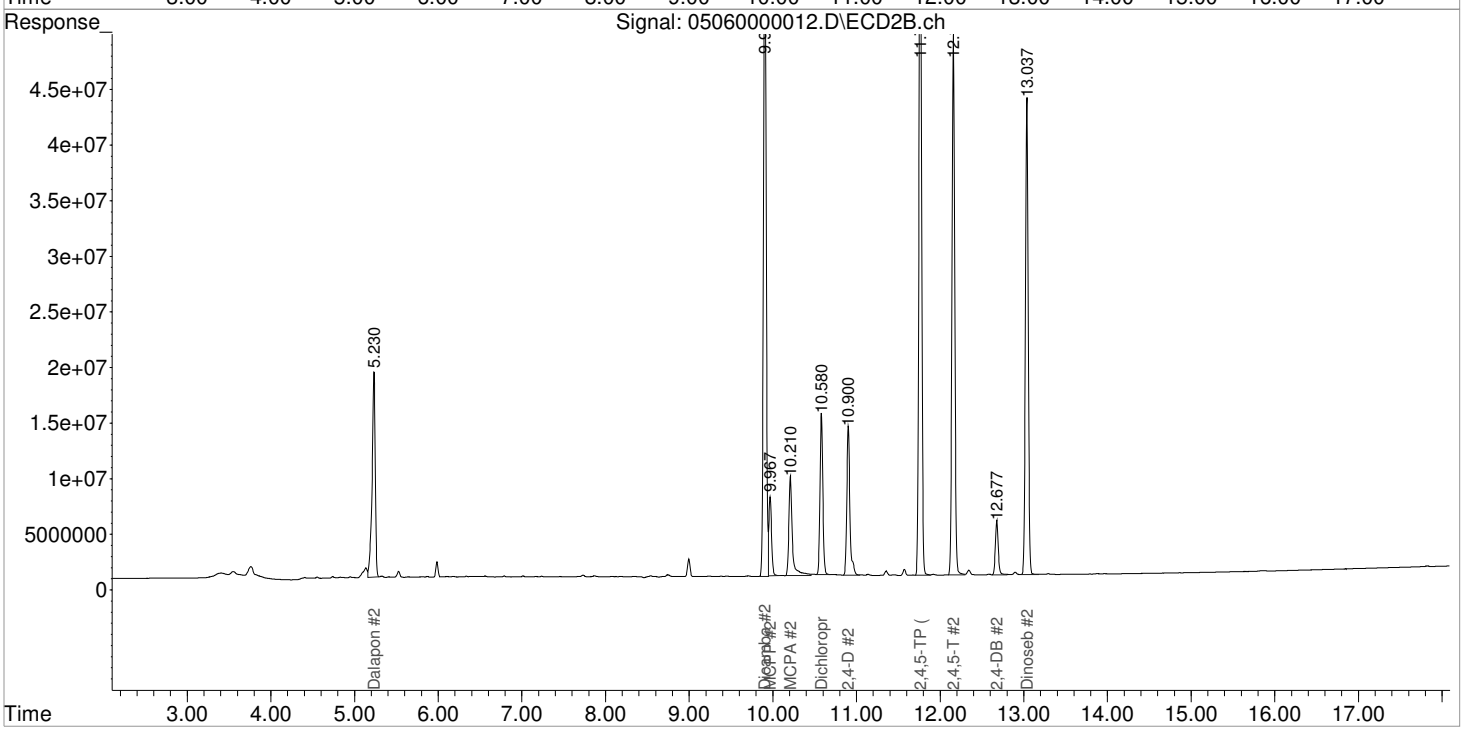
1st JTC 05/06/21
2nd 4w 05/06/21

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.

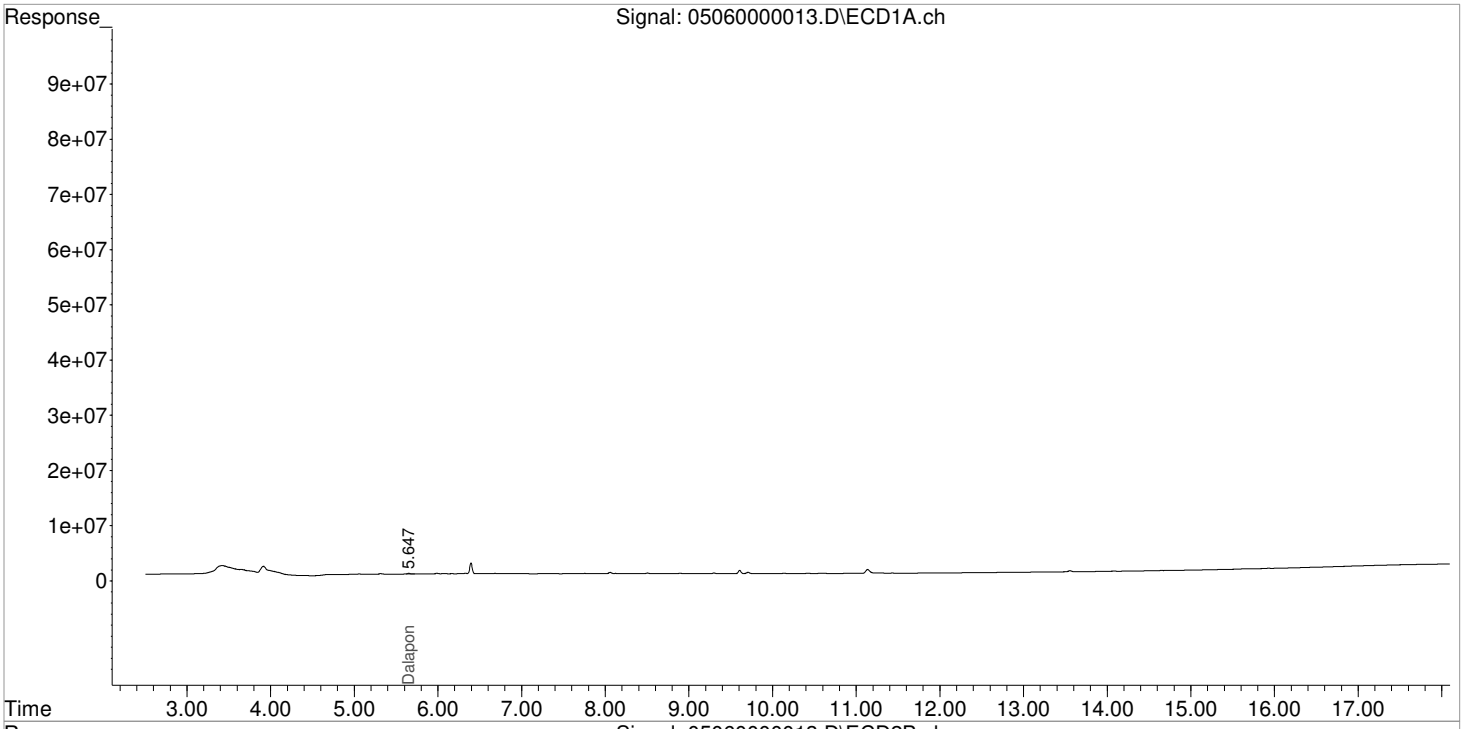
Quantitation Report (QT Reviewed)

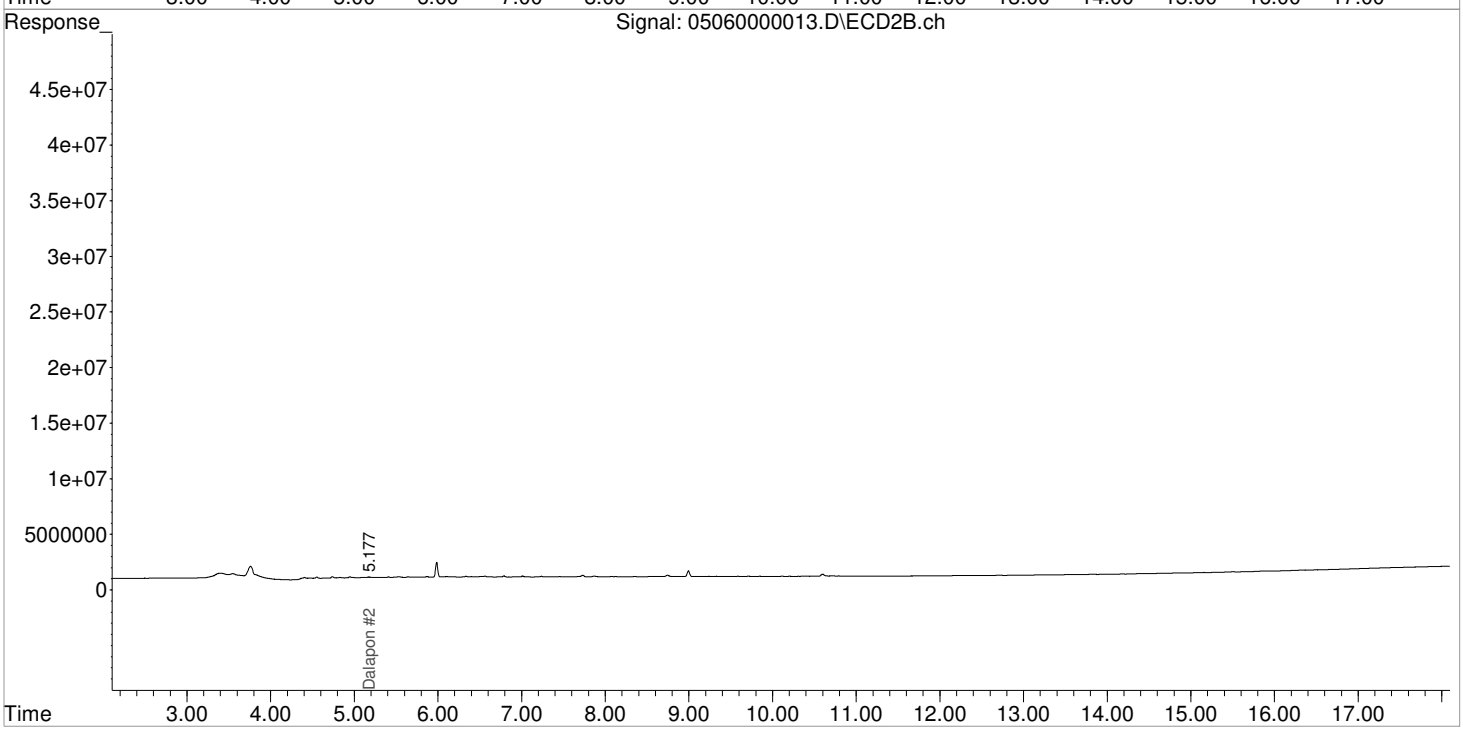
1st JTC 05/06/21
2nd 4w 05/06/21

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





RUN 724879
KC2100249

Sel	Run	Location	Method Sample Name	Datafile	SeqTable	Calib:RF:RT
No	1	Vial 100	8151A-17 PRIMER	05240000001	F:01:01	
No	2	Vial 100	8151A-17 PRIMER	05240000002	F:02:01	
No	3	Vial 1	8151A-17 PENTA02-29F 100PPB CCV	05240000003	F:03:01	
No	4	Vial 2	8151A-17 IB	05240000004	F:04:01	
No	5	Vial 3	8151A-17 KQ2107592-03 LCS	05240000005	F:05:01	
No	6	Vial 4	8151A-17 KQ2107592-04 MB	05240000006	F:06:01	
No	7	Vial 5	8151A-17 K2104780-001	05240000007	F:07:01	
No	8	Vial 6	8151A-17 K2104780-002	05240000008	F:08:01	
No	9	Vial 7	8151A-17 K2104780-003	05240000009	F:09:01	
No	10	Vial 8	8151A-17 K2104780-004	05240000010	F:10:01	
No	11	Vial 9	8151A-17 K2104780-005	05240000011	F:11:01	
No	12	Vial 10	8151A-17 K2104780-006	05240000012	F:12:01	
No	13	Vial 11	8151A-17 K2104780-007	05240000013	F:13:01	
No	14	Vial 12	8151A-17 K2104780-008	05240000014	F:14:01	
No	15	Vial 13	8151A-17 K2104780-010	05240000015	F:15:01	
No	16	Vial 14	8151A-17 K2104780-011	05240000016	F:16:01	
No	17	Vial 1	8151A-17 PENTA02-29F 100PPB CCV	05240000017	F:17:01	
No	18	Vial 2	8151A-17 IB	05240000018	F:18:01	
No	19	Vial 15	8151A-17 K2104780-009	05240000019	F:19:01	
No	20	Vial 16	8151A-17 K2104780-009 MS	05240000020	F:20:01	
No	21	Vial 17	8151A-17 K2104780-009 DMS	05240000021	F:21:01	
No	22	Vial 18	8151A-17 K2104780-012	05240000022	F:22:01	
No	23	Vial 19	8151A-17 K2104780-013	05240000023	F:23:01	
No	24	Vial 20	8151A-17 K2104780-014	05240000024	F:24:01	
No	25	Vial 21	8151A-17 K2104780-015	05240000025	F:25:01	
No	26	Vial 22	8151A-17 K2104780-016	05240000026	F:26:01	
No	27	Vial 1	8151A-17 PENTA02-29F 100PPB CCV	05240000027	F:27:01	
No	28	Vial 2	8151A-17 IB	05240000028	F:28:01	