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

December 03, 2020 **Analytical Report for Service Request No:** K2010413

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

RE: GascoSiltronic: US Moorings

Dear Delaney,

Enclosed are the results of the sample(s) submitted to our laboratory November 10, 2020
For your reference, these analyses have been assigned our service request number **K2010413.**

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

ALS Environmental
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
Qualifiers
State Certifications, Accreditations, And Licenses
Case Narrative
Chain of Custody
Total Solids
Chlorinated Herbicides by GC
Raw Data
    Total Solids
    Chlorinated Herbicides by GC

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: GascoSiltronic: US Moorings
Sample Matrix: Sediment

Service Request: K2010413
Date Received: 11/10/2020

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:

Twenty sediment samples were received for analysis at ALS Environmental on 11/10/2020. 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 _____ Date 12/03/2020

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

K2010413

COC ID: ALS-20201107-144831

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-021SC-B-00-02-201107	N	SE	11/07/2020	10:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
002	USMPDI-021SC-B-02-04-201107	N	SE	11/07/2020	10:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
003	USMPDI-021SC-B-04-06-201107	N	SE	11/07/2020	10:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
004	USMPDI-021SC-B-06-08-201107	N	SE	11/07/2020	10:30	2	☒				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
005	USMPDI-021SC-B-08-10-201107	N	SE	11/07/2020	10:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
006	USMPDI-021SC-B-10-12-201107	N	SE	11/07/2020	10:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
007	USMPDI-021SC-B-12-14-201107	N	SE	11/07/2020	10:30	1	☐				
								Herbicides	SW8151A	30	4°C

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name Esha Norwood	Print Name K Morrow	Print Name	Print Name	Print Name	Print Name
Company AnchorQEA	Company ALS	Company	Company	Company	Company
Date/Time 11/9/20 0745	Date/Time 11/10/20 830	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: 11/7/2020

K2010413

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20201107-144831

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
007	USMPDI-021SC-B-12-14-201107	N	SE	11/07/2020	10:30	1	☐				
								Total Solids (ALS)	SM2540G	30	4°C
008	USMPDI-021SC-B-14-15.4-201107	N	SE	11/07/2020	10:30	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
009	USMPDI-023SC-B-00-02-201107	N	SE	11/07/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
010	USMPDI-023SC-B-02-04-201107	N	SE	11/07/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
011	USMPDI-023SC-B-04-06-201107	N	SE	11/07/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
012	USMPDI-023SC-B-06-08-201107	N	SE	11/07/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
013	USMPDI-023SC-B-08-10-201107	N	SE	11/07/2020	8:10	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: Sasha Norwood	Print Name: K Thorrow	Print Name	Print Name	Print Name	Print Name
Company: AnchorQEA	Company: ALS	Company	Company	Company	Company
Date/Time: 11/9/20 0745	Date/Time: 11/10/20 1230	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: 11/7/2020

Page 2 of 4

K2010413

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20201107-144831

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
014	USMPDI-023SC-B-10-12-201107	N	SE	11/07/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
015	USMPDI-023SC-B-12-14-201107	N	SE	11/07/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
016	USMPDI-023SC-B-14-16-201107	N	SE	11/07/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
017	USMPDI-1023SC-B-08-10-201107	FD	SE	11/07/2020		1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
018	USMPDI-056SC-B-00-02-201107	N	SE	11/07/2020	13:00	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
019	USMPDI-056SC-B-02-04-201107	N	SE	11/07/2020	13:00	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
020	USMPDI-056SC-B-04-06-201107	N	SE	11/07/2020	13:00	1	☐				
								Herbicides	SW8151A	30	4°C

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name Sarah Norwood	Print Name K Morrow	Print Name	Print Name	Print Name	Print Name
Company AnchorQEA	Company ALS	Company	Company	Company	Company
Date/Time 11/9/20 0745	Date/Time 1230 11/10/20	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: 11/7/2020

PM MH

Cooler Receipt and Preservation Form

Client Anchor Service Request K20 1043

Received: 11/10/20 Opened: 11/10/20 By: KM Unloaded: 11/10/20 By: KM

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

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

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number (NA)	Filed
5.6		IR02		—	—		
4.8		↓					
3.8							
5.3							

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:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/7/20
Sample Matrix:	Sediment	**Date Received:**	11/10/20
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-021SC-B-00-02-201107	K2010413-001	**62.1**	-	-	1	12/02/20 16:10	
USMPDI-021SC-B-02-04-201107	K2010413-002	**76.4**	-	-	1	12/02/20 16:10	
USMPDI-021SC-B-04-06-201107	K2010413-003	**86.3**	-	-	1	12/02/20 16:10	
USMPDI-021SC-B-06-08-201107	K2010413-004	**74.1**	-	-	1	12/02/20 16:10	
USMPDI-021SC-B-08-10-201107	K2010413-005	**89.1**	-	-	1	12/02/20 16:10	
USMPDI-021SC-B-10-12-201107	K2010413-006	**78.3**	-	-	1	12/02/20 16:10	
USMPDI-021SC-B-12-14-201107	K2010413-007	**75.4**	-	-	1	12/02/20 16:10	
USMPDI-021SC-B-14-15.4-201107	K2010413-008	**76.0**	-	-	1	12/02/20 16:10	
USMPDI-023SC-B-00-02-201107	K2010413-009	**65.0**	-	-	1	12/02/20 16:10	
USMPDI-023SC-B-02-04-201107	K2010413-010	**74.1**	-	-	1	12/02/20 16:10	
USMPDI-023SC-B-04-06-201107	K2010413-011	**76.8**	-	-	1	12/02/20 16:10	
USMPDI-023SC-B-06-08-201107	K2010413-012	**74.7**	-	-	1	12/02/20 16:10	
USMPDI-023SC-B-08-10-201107	K2010413-013	**83.3**	-	-	1	12/02/20 16:10	
USMPDI-023SC-B-10-12-201107	K2010413-014	**74.3**	-	-	1	12/02/20 16:10	
USMPDI-023SC-B-12-14-201107	K2010413-015	**86.8**	-	-	1	12/02/20 16:10	
USMPDI-023SC-B-14-16-201107	K2010413-016	**84.6**	-	-	1	12/02/20 16:10	
USMPDI-1023SC-B-08-10-201107	K2010413-017	**83.2**	-	-	1	12/02/20 16:10	
USMPDI-056SC-B-00-02-201107	K2010413-018	**48.8**	-	-	1	12/02/20 16:10	
USMPDI-056SC-B-02-04-201107	K2010413-019	**53.3**	-	-	1	12/02/20 16:10	
USMPDI-056SC-B-04-06-201107	K2010413-020	**55.1**	-	-	1	12/02/20 16:10	
Method Blank	K2010413-MB	ND	-	-	1	12/02/20 16:10	U

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20
Sample Matrix:	Sediment	**Date Received:**	11/10/20
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
USMPDI-021SC-B-00-02-201107	K2010413-001DUP	-	-	62.1	61.8	62.0	<1	20	12/02/20
USMPDI-021SC-B-06-08-201107	K2010413-004DUP	-	-	74.1	74.2	74.2	<1	20	12/02/20

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

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

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

Chlorinated Herbicides by GC

ALS Environmental—Kelso Laboratory
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:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 10:30
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-021SC-B-00-02-201107	**Units:**	ug/Kg
Lab Code:	K2010413-001	**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	ND U	80	3.9	1	11/30/20 12:27	11/11/20	
2,4-D	ND U	80	13	1	11/30/20 12:27	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	73	26 - 127	11/30/20 12:27	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 10:30
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-021SC-B-02-04-201107	**Units:**	ug/Kg
Lab Code:	K2010413-002	**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	ND U	65	3.2	1	11/30/20 12:50	11/11/20	
2,4-D	ND U	65	11	1	11/30/20 12:50	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	68	26 - 127	11/30/20 12:50	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 10:30
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-021SC-B-04-06-201107	**Units:**	ug/Kg
Lab Code:	K2010413-003	**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	ND U	58	2.8	1	11/30/20 13:13	11/11/20	
2,4-D	ND U	58	9.0	1	11/30/20 13:13	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	67	26 - 127	11/30/20 13:13	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 10:30
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-021SC-B-06-08-201107	**Units:**	ug/Kg
Lab Code:	K2010413-004	**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	ND U	67	3.3	1	11/30/20 13:36	11/11/20	
2,4-D	ND U	67	11	1	11/30/20 13:36	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	65	26 - 127	11/30/20 13:36	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 10:30
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-021SC-B-08-10-201107	**Units:**	ug/Kg
Lab Code:	K2010413-005	**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	ND U	56	2.7	1	11/30/20 13:58	11/11/20	
2,4-D	ND U	56	8.7	1	11/30/20 13:58	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	64	26 - 127	11/30/20 13:58	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 10:30
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-021SC-B-10-12-201107	**Units:**	ug/Kg
Lab Code:	K2010413-006	**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	ND U	64	3.1	1	11/30/20 14:21	11/11/20	
2,4-D	ND U	64	9.9	1	11/30/20 14:21	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	26 - 127	11/30/20 14:21	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 10:30
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-021SC-B-12-14-201107	**Units:**	ug/Kg
Lab Code:	K2010413-007	**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	ND U	66	3.2	1	11/30/20 14:44	11/11/20	
2,4-D	ND U	66	11	1	11/30/20 14:44	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	65	26 - 127	11/30/20 14:44	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 10:30
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-021SC-B-14-15.4-201107	**Units:**	ug/Kg
Lab Code:	K2010413-008	**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	ND U	65	3.2	1	11/30/20 15:07	11/11/20	
2,4-D	ND U	65	11	1	11/30/20 15:07	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	67	26 - 127	11/30/20 15:07	

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-023SC-B-00-02-201107	**Units:**	ug/Kg
Lab Code:	K2010413-009	**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	ND U	77	3.7	1	11/30/20 16:15	11/11/20	
2,4-D	ND U	77	12	1	11/30/20 16:15	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	72	26 - 127	11/30/20 16:15	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-023SC-B-02-04-201107	**Units:**	ug/Kg
Lab Code:	K2010413-010	**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	ND U	67	3.3	1	11/30/20 16:38	11/11/20	
2,4-D	ND U	67	11	1	11/30/20 16:38	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	69	26 - 127	11/30/20 16:38	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-023SC-B-04-06-201107	**Units:**	ug/Kg
Lab Code:	K2010413-011	**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	ND U	65	3.2	1	11/30/20 17:01	11/11/20	
2,4-D	ND U	65	10	1	11/30/20 17:01	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	61	26 - 127	11/30/20 17:01	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-023SC-B-06-08-201107	**Units:**	ug/Kg
Lab Code:	K2010413-012	**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	ND U	67	3.3	1	11/30/20 17:24	11/11/20	
2,4-D	ND U	67	11	1	11/30/20 17:24	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	67	26 - 127	11/30/20 17:24	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-023SC-B-08-10-201107	**Units:**	ug/Kg
Lab Code:	K2010413-013	**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	ND U	60	2.9	1	11/30/20 17:46	11/11/20	
2,4-D	ND U	60	9.3	1	11/30/20 17:46	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	64	26 - 127	11/30/20 17:46	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-023SC-B-10-12-201107	**Units:**	ug/Kg
Lab Code:	K2010413-014	**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	ND U	67	3.3	1	11/30/20 18:09	11/11/20	
2,4-D	ND U	67	11	1	11/30/20 18:09	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	67	26 - 127	11/30/20 18:09	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-023SC-B-12-14-201107	**Units:**	ug/Kg
Lab Code:	K2010413-015	**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	ND U	58	2.8	1	11/30/20 18:32	11/11/20	
2,4-D	ND U	58	8.9	1	11/30/20 18:32	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	69	26 - 127	11/30/20 18:32	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-023SC-B-14-16-201107	**Units:**	ug/Kg
Lab Code:	K2010413-016	**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	ND U	59	2.9	1	11/30/20 19:40	11/11/20	
2,4-D	ND U	59	9.1	1	11/30/20 19:40	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	58	26 - 127	11/30/20 19:40	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-1023SC-B-08-10-201107	**Units:**	ug/Kg
Lab Code:	K2010413-017	**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	ND U	60	2.9	1	11/30/20 20:03	11/11/20	
2,4-D	ND U	60	9.3	1	11/30/20 20:03	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	26 - 127	11/30/20 20:03	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 13:00
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-056SC-B-00-02-201107	**Units:**	ug/Kg
Lab Code:	K2010413-018	**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	ND U	100	5.0	1	11/30/20 20:26	11/11/20	
2,4-D	ND U	100	16	1	11/30/20 20:26	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	26 - 127	11/30/20 20:26	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 13:00
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-056SC-B-02-04-201107	**Units:**	ug/Kg
Lab Code:	K2010413-019	**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	ND U	94	4.5	1	11/30/20 20:48	11/11/20	
2,4-D	ND U	94	15	1	11/30/20 20:48	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	73	26 - 127	11/30/20 20:48	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20 13:00
Sample Matrix:	Sediment	**Date Received:**	11/10/20 12:30
Sample Name:	USMPDI-056SC-B-04-06-201107	**Units:**	ug/Kg
Lab Code:	K2010413-020	**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	ND U	90	4.4	1	11/30/20 21:11	11/11/20	
2,4-D	ND U	90	14	1	11/30/20 21:11	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	62	26 - 127	11/30/20 21:11	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KQ2017769-04	**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	ND U	50	2.4	1	11/30/20 11:42	11/11/20	
2,4-D	ND U	50	7.7	1	11/30/20 11:42	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	58	26 - 127	11/30/20 11:42	

Confirmation Results

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

Service Request: K2010413
Date Collected: 11/07/20 10:30
Date Received: 11/10/20

Sample Name: USMPDI-021SC-B-06-08-201107
Lab Code: KQ2017769-01

Units: ug/Kg
Basis: Dry
Percent Solids: 74.1

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	3.3	129	166	25		1	11/30/20 21:34
2,4-D	11	124	152	20		1	11/30/20 21:34

Confirmation Results

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

Service Request: K2010413
Date Collected: 11/07/20 10:30
Date Received: 11/10/20

Sample Name: USMPDI-021SC-B-06-08-201107
Lab Code: KQ2017769-02

Units: ug/Kg
Basis: Dry
Percent Solids: 74.1

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	3.3	128	163	24		1	11/30/20 21:57
2,4-D	11	121	150	21		1	11/30/20 21:57

Confirmation Results

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

Service Request: K2010413
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2017769-03

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	2.4	97.6	121	21		1	11/30/20 12:05
2,4-D	7.7	91.4	111	19		1	11/30/20 12:05

Client: Anchor QEA, LLC **Service Request:** K2010413
Project: GascoSiltronic: US Moorings
Sample Matrix: Sediment

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA 26-127
USMPDI-021SC-B-00-02-201107	K2010413-001	73
USMPDI-021SC-B-02-04-201107	K2010413-002	68
USMPDI-021SC-B-04-06-201107	K2010413-003	67
USMPDI-021SC-B-06-08-201107	K2010413-004	65
USMPDI-021SC-B-08-10-201107	K2010413-005	64
USMPDI-021SC-B-10-12-201107	K2010413-006	66
USMPDI-021SC-B-12-14-201107	K2010413-007	65
USMPDI-021SC-B-14-15.4-201107	K2010413-008	67
USMPDI-023SC-B-00-02-201107	K2010413-009	72
USMPDI-023SC-B-02-04-201107	K2010413-010	69
USMPDI-023SC-B-04-06-201107	K2010413-011	61
USMPDI-023SC-B-06-08-201107	K2010413-012	67
USMPDI-023SC-B-08-10-201107	K2010413-013	64
USMPDI-023SC-B-10-12-201107	K2010413-014	67
USMPDI-023SC-B-12-14-201107	K2010413-015	69
USMPDI-023SC-B-14-16-201107	K2010413-016	58
USMPDI-1023SC-B-08-10-201107	K2010413-017	66
USMPDI-056SC-B-00-02-201107	K2010413-018	66
USMPDI-056SC-B-02-04-201107	K2010413-019	73
USMPDI-056SC-B-04-06-201107	K2010413-020	62
Method Blank	KQ2017769-04	58
Lab Control Sample	KQ2017769-03	69
USMPDI-021SC-B-06-08-201107	KQ2017769-01	66
USMPDI-021SC-B-06-08-201107	KQ2017769-02	65

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/07/20
Sample Matrix:	Sediment	**Date Received:**	11/10/20
		Date Analyzed:	11/30/20
		Date Extracted:	11/11/20

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name:	USMPDI-021SC-B-06-08-201107	**Units:**	ug/Kg
Lab Code:	K2010413-004	**Basis:**	Dry
Analysis Method:	8151A		
Prep Method:	Method		

		Matrix Spike			Duplicate Matrix Spike					
		KQ2017769-01			KQ2017769-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-TP	ND U	129	224	58	128	224	57	34-129	1	40
2,4-D	ND U	124	224	55	121	224	54	35-129	3	40

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

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

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

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

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/30/20
Sample Matrix:	Sediment	**Date Extracted:**	11/11/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Units:**	ug/Kg
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	705301

Lab Control Sample
KQ2017769-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP	97.6	167	59	46-125
2,4-D	91.4	167	55	46-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/30/20 11:42
Sample Matrix:	Sediment	**Date Extracted:**	11/11/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	K-GC-24
Lab Code:	KQ2017769-04	**File ID:**	J:\gc24\data\113020\11300006.D\
Analysis Method:	8151A	**Analysis Lot:**	705301
Prep Method:	Method	**Extraction Lot:**	369615

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2017769-03	J:\gc24\data\113020\11300007.D\	11/30/20 12:05
USMPDI-021SC-B-00-02-201107	K2010413-001	J:\gc24\data\113020\11300008.D\	11/30/20 12:27
USMPDI-021SC-B-02-04-201107	K2010413-002	J:\gc24\data\113020\11300009.D\	11/30/20 12:50
USMPDI-021SC-B-04-06-201107	K2010413-003	J:\gc24\data\113020\11300010.D\	11/30/20 13:13
USMPDI-021SC-B-06-08-201107	K2010413-004	J:\gc24\data\113020\11300011.D\	11/30/20 13:36
USMPDI-021SC-B-08-10-201107	K2010413-005	J:\gc24\data\113020\11300012.D\	11/30/20 13:58
USMPDI-021SC-B-10-12-201107	K2010413-006	J:\gc24\data\113020\11300013.D\	11/30/20 14:21
USMPDI-021SC-B-12-14-201107	K2010413-007	J:\gc24\data\113020\11300014.D\	11/30/20 14:44
USMPDI-021SC-B-14-15.4-201107	K2010413-008	J:\gc24\data\113020\11300015.D\	11/30/20 15:07
USMPDI-023SC-B-00-02-201107	K2010413-009	J:\gc24\data\113020\11300018.D\	11/30/20 16:15
USMPDI-023SC-B-02-04-201107	K2010413-010	J:\gc24\data\113020\11300019.D\	11/30/20 16:38
USMPDI-023SC-B-04-06-201107	K2010413-011	J:\gc24\data\113020\11300020.D\	11/30/20 17:01
USMPDI-023SC-B-06-08-201107	K2010413-012	J:\gc24\data\113020\11300021.D\	11/30/20 17:24
USMPDI-023SC-B-08-10-201107	K2010413-013	J:\gc24\data\113020\11300022.D\	11/30/20 17:46
USMPDI-023SC-B-10-12-201107	K2010413-014	J:\gc24\data\113020\11300023.D\	11/30/20 18:09
USMPDI-023SC-B-12-14-201107	K2010413-015	J:\gc24\data\113020\11300024.D\	11/30/20 18:32
USMPDI-023SC-B-14-16-201107	K2010413-016	J:\gc24\data\113020\11300027.D\	11/30/20 19:40
USMPDI-1023SC-B-08-10-201107	K2010413-017	J:\gc24\data\113020\11300028.D\	11/30/20 20:03
USMPDI-056SC-B-00-02-201107	K2010413-018	J:\gc24\data\113020\11300029.D\	11/30/20 20:26
USMPDI-056SC-B-02-04-201107	K2010413-019	J:\gc24\data\113020\11300030.D\	11/30/20 20:48
USMPDI-056SC-B-04-06-201107	K2010413-020	J:\gc24\data\113020\11300031.D\	11/30/20 21:11
USMPDI-021SC-B-06-08-201107MS	KQ2017769-01	J:\gc24\data\113020\11300032.D\	11/30/20 21:34
USMPDI-021SC-B-06-08-201107DMS	KQ2017769-02	J:\gc24\data\113020\11300033.D\	11/30/20 21:57

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/30/20 12:05
Sample Matrix:	Sediment	**Date Extracted:**	11/11/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-24
Lab Code:	KQ2017769-03	**File ID:**	J:\gc24\data\113020\11300007.D\
Analysis Method:	8151A	**Analysis Lot:**	705301
Prep Method:	Method	**Extraction Lot:**	369615

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2017769-04	J:\gc24\data\113020\11300006.D\	11/30/20 11:42
USMPDI-021SC-B-00-02-201107	K2010413-001	J:\gc24\data\113020\11300008.D\	11/30/20 12:27
USMPDI-021SC-B-02-04-201107	K2010413-002	J:\gc24\data\113020\11300009.D\	11/30/20 12:50
USMPDI-021SC-B-04-06-201107	K2010413-003	J:\gc24\data\113020\11300010.D\	11/30/20 13:13
USMPDI-021SC-B-06-08-201107	K2010413-004	J:\gc24\data\113020\11300011.D\	11/30/20 13:36
USMPDI-021SC-B-08-10-201107	K2010413-005	J:\gc24\data\113020\11300012.D\	11/30/20 13:58
USMPDI-021SC-B-10-12-201107	K2010413-006	J:\gc24\data\113020\11300013.D\	11/30/20 14:21
USMPDI-021SC-B-12-14-201107	K2010413-007	J:\gc24\data\113020\11300014.D\	11/30/20 14:44
USMPDI-021SC-B-14-15.4-201107	K2010413-008	J:\gc24\data\113020\11300015.D\	11/30/20 15:07
USMPDI-023SC-B-00-02-201107	K2010413-009	J:\gc24\data\113020\11300018.D\	11/30/20 16:15
USMPDI-023SC-B-02-04-201107	K2010413-010	J:\gc24\data\113020\11300019.D\	11/30/20 16:38
USMPDI-023SC-B-04-06-201107	K2010413-011	J:\gc24\data\113020\11300020.D\	11/30/20 17:01
USMPDI-023SC-B-06-08-201107	K2010413-012	J:\gc24\data\113020\11300021.D\	11/30/20 17:24
USMPDI-023SC-B-08-10-201107	K2010413-013	J:\gc24\data\113020\11300022.D\	11/30/20 17:46
USMPDI-023SC-B-10-12-201107	K2010413-014	J:\gc24\data\113020\11300023.D\	11/30/20 18:09
USMPDI-023SC-B-12-14-201107	K2010413-015	J:\gc24\data\113020\11300024.D\	11/30/20 18:32
USMPDI-023SC-B-14-16-201107	K2010413-016	J:\gc24\data\113020\11300027.D\	11/30/20 19:40
USMPDI-1023SC-B-08-10-201107	K2010413-017	J:\gc24\data\113020\11300028.D\	11/30/20 20:03
USMPDI-056SC-B-00-02-201107	K2010413-018	J:\gc24\data\113020\11300029.D\	11/30/20 20:26
USMPDI-056SC-B-02-04-201107	K2010413-019	J:\gc24\data\113020\11300030.D\	11/30/20 20:48
USMPDI-056SC-B-04-06-201107	K2010413-020	J:\gc24\data\113020\11300031.D\	11/30/20 21:11
USMPDI-021SC-B-06-08-201107MS	KQ2017769-01	J:\gc24\data\113020\11300032.D\	11/30/20 21:34
USMPDI-021SC-B-06-08-201107DMS	KQ2017769-02	J:\gc24\data\113020\11300033.D\	11/30/20 21:57

Client: Anchor QEA, LLC **Service Request:** K2010413
Project: GascoSiltronic: US Moorings **Calibration Date:** 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-24

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D	10/21/2020 16:32

Analyte

2,4,5-TP

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	9.752E4	02	23.760	9.79E4	03	71.300	9.082E4	04	95.100	9.31E4
05	118.820	9.221E4	06	142.580	9.36E4	07	166.340	9.245E4	08	190.100	9.185E4

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	2.488E4	02	23.510	2.377E4	03	70.500	2.075E4	04	94.000	2.056E4
05	117.540	2.029E4	06	141.050	2.025E4	07	164.560	1.991E4	08	188.060	1.951E4

DCAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	2.115E4	02	22.550	2.015E4	03	67.600	1.798E4	04	90.200	1.794E4
05	112.730	1.738E4	06	135.280	1.732E4	07	157.830	1.694E4	08	180.370	1.67E4

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

Service Request: K2010413
Calibration Date: 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: RTX-CLP2

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP	TRG	Average RF	% RSD	2.8	≤20	9.368E4	
2,4-D	TRG	Average RF	% RSD	9.3	≤20	2.124E4	
DCAA	SURR	Average RF	% RSD	8.8	≤20	1.82E4	

Client: Anchor QEA, LLC **Service Request:** K2010413
Project: GascoSiltronic: US Moorings **Calibration Date:** 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566 **Signal ID:** ZB-XLB-HT
Instrument ID: K-GC-24

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D	10/21/2020 16:32

Analyte

2,4,5-TP

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	2.358E5	02	23.760	2.178E5	03	71.300	1.953E5	04	95.100	1.956E5
05	118.820	1.949E5	06	142.580	1.947E5	07	166.340	1.946E5	08	190.100	1.952E5

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	6.995E4	02	23.510	5.929E4	03	70.500	4.845E4	04	94.000	4.767E4
05	117.540	4.681E4	06	141.050	4.616E4	07	164.560	4.575E4	08	188.060	4.551E4

DCAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	5.587E4	02	22.550	4.943E4	03	67.600	4.041E4	04	90.200	3.953E4
05	112.730	3.892E4	06	135.280	3.822E4	07	157.830	3.814E4	08	180.370	3.787E4

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Service Request: K2010413
Calibration Date: 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566
Instrument ID: K-GC-24
Signal ID: ZB-XLB-HT

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP	TRG	Average RF	% RSD	7.6	≤20	2.03E5	
2,4-D	TRG	Average RF	% RSD	17.2	≤20	5.12E4	
DCAA	SURR	Average RF	% RSD	15.8	≤20	4.23E4	

Client: Anchor QEA, LLC **Service Request:** K2010413
Project: GascoSiltronic: US Moorings **Calibration Date:** 10/21/2020

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-24

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2000566-09	PENTA2-15E ICV 100 PPB	J:\gc24\data\102120\10210012.D	10/21/2020 16:56

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP	95.1	93.4	9.368E4	9.198E4	-1.819	±20	Average RF
2,4-D	94.0	90.4	2.124E4	2.043E4	-3.805	±20	Average RF

Client: Anchor QEA, LLC **Service Request:** K2010413
Project: GascoSiltronic: US Moorings **Calibration Date:** 10/21/2020

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566 **Signal ID:** ZB-XLB-HT
Instrument ID: K-GC-24

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2000566-09	PENTA2-15E ICV 100 PPB	J:\gc24\data\102120\10210012.D	10/21/2020 16:56

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP	95.1	92.5	2.03E5	1.974E5	-2.734	±20	Average RF
2,4-D	94.0	83.6	5.12E4	4.556E4	-11.018	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/30/20 10:18

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300003.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	87.7	9.368E4	8.644E4	-7.7	NA	±20	Average RF
2,4-D	94.0	82.2	2.124E4	1.858E4	-12.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	93.7	1.82E4	1.705E4	-6.3	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/30/20 10:18

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300003.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	106	2.03E5	2.263E5	11.5	NA	±20	Average RF
2,4-D	94.0	95.0	5.12E4	5.175E4	1.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	106	4.23E4	4.491E4	6.2	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/30/20 15:30

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300016.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	86.8	9.368E4	8.554E4	-8.7	NA	±20	Average RF
2,4-D	94.0	82.0	2.124E4	1.852E4	-12.8	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	93.9	1.82E4	1.708E4	-6.1	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/30/20 15:30

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300016.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	109	2.03E5	2.327E5	14.6	NA	±20	Average RF
2,4-D	94.0	98.2	5.12E4	5.347E4	4.4	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	110	4.23E4	4.668E4	10.4	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/30/20 18:55

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300025.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	87.4	9.368E4	8.613E4	-8.1	NA	±20	Average RF
2,4-D	94.0	82.9	2.124E4	1.874E4	-11.8	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	93.8	1.82E4	1.706E4	-6.2	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/30/20 18:55

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300025.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	107	2.03E5	2.29E5	12.8	NA	±20	Average RF
2,4-D	94.0	97.0	5.12E4	5.282E4	3.2	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	110	4.23E4	4.644E4	9.8	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/30/20 23:28

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300037.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	84.5	9.368E4	8.323E4	-11.2	NA	±20	Average RF
2,4-D	94.0	79.3	2.124E4	1.792E4	-15.6	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	91.4	1.82E4	1.662E4	-8.6	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/30/20 23:28

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300037.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	109	2.03E5	2.326E5	14.6	NA	±20	Average RF
2,4-D	94.0	96.5	5.12E4	5.256E4	2.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	111	4.23E4	4.696E4	11.0	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/01/20 04:02

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300049.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	86.4	9.368E4	8.509E4	-9.2	NA	±20	Average RF
2,4-D	94.0	80.9	2.124E4	1.827E4	-14.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	91.5	1.82E4	1.665E4	-8.5	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/01/20 04:02

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300049.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	112	2.03E5	2.387E5	17.6	NA	±20	Average RF
2,4-D	94.0	100	5.12E4	5.445E4	6.4	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	112	4.23E4	4.735E4	11.9	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/01/20 08:13

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300060.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	82.3	9.368E4	8.107E4	-13.5	NA	±20	Average RF
2,4-D	94.0	76.2	2.124E4	1.722E4	-18.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	86.3	1.82E4	1.57E4	-13.7	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/01/20 08:13

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300060.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	109	2.03E5	2.326E5	14.6	NA	±20	Average RF
2,4-D	94.0	96.7	5.12E4	5.269E4	2.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	109	4.23E4	4.629E4	9.4	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/01/20 09:44

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300064.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	84.0	9.368E4	8.274E4	-11.7	NA	±20	Average RF
2,4-D	94.0	77.6	2.124E4	1.752E4	-17.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	87.1	1.82E4	1.585E4	-12.9	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010413
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/01/20 09:44

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\113020\11300064.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705301
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	109	2.03E5	2.325E5	14.5	NA	±20	Average RF
2,4-D	94.0	97.9	5.12E4	5.33E4	4.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	108	4.23E4	4.587E4	8.5	NA	±20	Average RF

Client: Anchor QEA, LLC **Service Request:**K2010413
Project: GascoSiltronic: US Moorings

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**705301
Instrument ID:K-GC-24

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\gc24\data\113020\11300003.D\	Continuing Calibration Verification	KQ2019012-01	11/30/2020	10:18:00	
J:\gc24\data\113020\11300004.D\	Continuing Calibration Blank	KQ2019012-02	11/30/2020	10:41:00	
J:\gc24\data\113020\11300006.D\	Method Blank	KQ2017769-04	11/30/2020	11:42:00	
J:\gc24\data\113020\11300007.D\	Lab Control Sample	KQ2017769-03	11/30/2020	12:05:00	
J:\gc24\data\113020\11300008.D\	USMPDI-021SC-B-00-02-201107	K2010413-001	11/30/2020	12:27:00	
J:\gc24\data\113020\11300009.D\	USMPDI-021SC-B-02-04-201107	K2010413-002	11/30/2020	12:50:00	
J:\gc24\data\113020\11300010.D\	USMPDI-021SC-B-04-06-201107	K2010413-003	11/30/2020	13:13:00	
J:\gc24\data\113020\11300011.D\	USMPDI-021SC-B-06-08-201107	K2010413-004	11/30/2020	13:36:00	
J:\gc24\data\113020\11300012.D\	USMPDI-021SC-B-08-10-201107	K2010413-005	11/30/2020	13:58:00	
J:\gc24\data\113020\11300013.D\	USMPDI-021SC-B-10-12-201107	K2010413-006	11/30/2020	14:21:00	
J:\gc24\data\113020\11300014.D\	USMPDI-021SC-B-12-14-201107	K2010413-007	11/30/2020	14:44:00	
J:\gc24\data\113020\11300015.D\	USMPDI-021SC-B-14-15.4-201107	K2010413-008	11/30/2020	15:07:00	
J:\gc24\data\113020\11300016.D\	Continuing Calibration Verification	KQ2019012-03	11/30/2020	15:30:00	
J:\gc24\data\113020\11300017.D\	Continuing Calibration Blank	KQ2019012-04	11/30/2020	15:53:00	
J:\gc24\data\113020\11300018.D\	USMPDI-023SC-B-00-02-201107	K2010413-009	11/30/2020	16:15:00	
J:\gc24\data\113020\11300019.D\	USMPDI-023SC-B-02-04-201107	K2010413-010	11/30/2020	16:38:00	
J:\gc24\data\113020\11300020.D\	USMPDI-023SC-B-04-06-201107	K2010413-011	11/30/2020	17:01:00	
J:\gc24\data\113020\11300021.D\	USMPDI-023SC-B-06-08-201107	K2010413-012	11/30/2020	17:24:00	
J:\gc24\data\113020\11300022.D\	USMPDI-023SC-B-08-10-201107	K2010413-013	11/30/2020	17:46:00	
J:\gc24\data\113020\11300023.D\	USMPDI-023SC-B-10-12-201107	K2010413-014	11/30/2020	18:09:00	
J:\gc24\data\113020\11300024.D\	USMPDI-023SC-B-12-14-201107	K2010413-015	11/30/2020	18:32:00	
J:\gc24\data\113020\11300025.D\	Continuing Calibration Verification	KQ2019012-05	11/30/2020	18:55:00	
J:\gc24\data\113020\11300026.D\	Continuing Calibration Blank	KQ2019012-06	11/30/2020	19:17:00	
J:\gc24\data\113020\11300027.D\	USMPDI-023SC-B-14-16-201107	K2010413-016	11/30/2020	19:40:00	
J:\gc24\data\113020\11300028.D\	USMPDI-1023SC-B-08-10-201107	K2010413-017	11/30/2020	20:03:00	
J:\gc24\data\113020\11300029.D\	USMPDI-056SC-B-00-02-201107	K2010413-018	11/30/2020	20:26:00	
J:\gc24\data\113020\11300030.D\	USMPDI-056SC-B-02-04-201107	K2010413-019	11/30/2020	20:48:00	
J:\gc24\data\113020\11300031.D\	USMPDI-056SC-B-04-06-201107	K2010413-020	11/30/2020	21:11:00	
J:\gc24\data\113020\11300032.D\	USMPDI-021SC-B-06-08-201107 MS	KQ2017769-01	11/30/2020	21:34:00	
J:\gc24\data\113020\11300033.D\	USMPDI-021SC-B-06-08-201107 DMS	KQ2017769-02	11/30/2020	21:57:00	
J:\gc24\data\113020\11300034.D\	ZZZZZZZ	ZZZZZZZ	11/30/2020	22:20:00	
J:\gc24\data\113020\11300035.D\	ZZZZZZZ	ZZZZZZZ	11/30/2020	22:42:00	
J:\gc24\data\113020\11300036.D\	ZZZZZZZ	ZZZZZZZ	11/30/2020	23:05:00	
J:\gc24\data\113020\11300037.D\	Continuing Calibration Verification	KQ2019012-07	11/30/2020	23:28:00	
J:\gc24\data\113020\11300038.D\	Continuing Calibration Blank	KQ2019012-08	11/30/2020	23:51:00	
J:\gc24\data\113020\11300039.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	00:14:00	
J:\gc24\data\113020\11300040.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	00:37:00	
J:\gc24\data\113020\11300041.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	00:59:00	
J:\gc24\data\113020\11300042.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	01:22:00	
J:\gc24\data\113020\11300043.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	01:45:00	
J:\gc24\data\113020\11300044.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	02:08:00	
J:\gc24\data\113020\11300045.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	02:31:00	
J:\gc24\data\113020\11300046.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	02:53:00	
J:\gc24\data\113020\11300047.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	03:16:00	
J:\gc24\data\113020\11300048.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	03:39:00	

Client: Anchor QEA, LLC **Service Request:**K2010413
Project: GascoSiltronic: US Moorings

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**705301
Instrument ID:K-GC-24

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\gc24\data\113020\11300049.D\	Continuing Calibration Verification	KQ2019012-09	12/1/2020	04:02:00	
J:\gc24\data\113020\11300050.D\	Continuing Calibration Blank	KQ2019012-10	12/1/2020	04:25:00	
J:\gc24\data\113020\11300051.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	04:48:00	
J:\gc24\data\113020\11300052.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	05:10:00	
J:\gc24\data\113020\11300053.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	05:33:00	
J:\gc24\data\113020\11300054.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	05:56:00	
J:\gc24\data\113020\11300055.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	06:19:00	
J:\gc24\data\113020\11300056.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	06:42:00	
J:\gc24\data\113020\11300057.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	07:04:00	
J:\gc24\data\113020\11300058.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	07:27:00	
J:\gc24\data\113020\11300059.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	07:50:00	
J:\gc24\data\113020\11300060.D\	Continuing Calibration Verification	KQ2019012-11	12/1/2020	08:13:00	
J:\gc24\data\113020\11300061.D\	Continuing Calibration Blank	KQ2019012-12	12/1/2020	08:36:00	
J:\gc24\data\113020\11300062.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	08:58:00	
J:\gc24\data\113020\11300063.D\	ZZZZZZZ	ZZZZZZZ	12/1/2020	09:21:00	
J:\gc24\data\113020\11300064.D\	Continuing Calibration Verification	KQ2019012-13	12/1/2020	09:44:00	
J:\gc24\data\113020\11300065.D\	Continuing Calibration Blank	KQ2019012-14	12/1/2020	10:07:00	

Prep Summary Report

Client: Anchor QEA, LLC **Service Request:**K2010413
Project: GascoSiltronic: US Moorings
Sample Matrix: Sediment

Chlorinated Herbicides by GC

Prep Method: Method **Extraction Lot:** 369615
Analytical Method: 8151A **Extraction Date:** 11/11/20 15:48

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-021SC-B-00-02-201107	K2010413-001	11/7/20	11/10/20	30.252 g	50 mL	62.1
USMPDI-021SC-B-02-04-201107	K2010413-002	11/7/20	11/10/20	30.227 g	50 mL	76.4
USMPDI-021SC-B-04-06-201107	K2010413-003	11/7/20	11/10/20	30.030 g	50 mL	86.3
USMPDI-021SC-B-06-08-201107	K2010413-004	11/7/20	11/10/20	30.007 g	50 mL	74.1
USMPDI-021SC-B-08-10-201107	K2010413-005	11/7/20	11/10/20	30.001 g	50 mL	89.1
USMPDI-021SC-B-10-12-201107	K2010413-006	11/7/20	11/10/20	30.054 g	50 mL	78.3
USMPDI-021SC-B-12-14-201107	K2010413-007	11/7/20	11/10/20	30.076 g	50 mL	75.4
USMPDI-021SC-B-14-15.4-201107	K2010413-008	11/7/20	11/10/20	30.195 g	50 mL	76.0
USMPDI-023SC-B-00-02-201107	K2010413-009	11/7/20	11/10/20	30.026 g	50 mL	65.0
USMPDI-023SC-B-02-04-201107	K2010413-010	11/7/20	11/10/20	30.150 g	50 mL	74.1
USMPDI-023SC-B-04-06-201107	K2010413-011	11/7/20	11/10/20	30.236 g	50 mL	76.8
USMPDI-023SC-B-06-08-201107	K2010413-012	11/7/20	11/10/20	30.090 g	50 mL	74.7
USMPDI-023SC-B-08-10-201107	K2010413-013	11/7/20	11/10/20	30.041 g	50 mL	83.3
USMPDI-023SC-B-10-12-201107	K2010413-014	11/7/20	11/10/20	30.227 g	50 mL	74.3
USMPDI-023SC-B-12-14-201107	K2010413-015	11/7/20	11/10/20	30.033 g	50 mL	86.8
USMPDI-023SC-B-14-16-201107	K2010413-016	11/7/20	11/10/20	30.079 g	50 mL	84.6
USMPDI-1023SC-B-08-10-201107	K2010413-017	11/7/20	11/10/20	30.032 g	50 mL	83.2
USMPDI-056SC-B-00-02-201107	K2010413-018	11/7/20	11/10/20	30.045 g	50 mL	48.8
USMPDI-056SC-B-02-04-201107	K2010413-019	11/7/20	11/10/20	30.084 g	50 mL	53.3
USMPDI-056SC-B-04-06-201107	K2010413-020	11/7/20	11/10/20	30.229 g	50 mL	55.1
Matrix Spike	KQ2017769-01MS	11/7/20	11/10/20	30.093 g	50 mL	74.1
Duplicate Matrix Spike	KQ2017769-02DMS	11/7/20	11/10/20	30.152 g	50 mL	74.1
Lab Control Sample	KQ2017769-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2017769-04MB	NA	NA	30.2520 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:** 705630 **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
K2010413-001	Solids, Total	N/A		Sediment	62.10 Percent	34.5487 g	62.1 Percent	1					12/2/20 16:10:00	N	IV
K2010413-002	Solids, Total	N/A		Sediment	76.40 Percent	27.0012 g	76.4 Percent	1					12/2/20 16:10:00	N	IV
K2010413-003	Solids, Total	N/A		Sediment	86.30 Percent	27.2778 g	86.3 Percent	1					12/2/20 16:10:00	N	IV
K2010413-004	Solids, Total	N/A		Sediment	74.10 Percent	32.4280 g	74.1 Percent	1					12/2/20 16:10:00	Y	IV
K2010413-005	Solids, Total	N/A		Sediment	89.10 Percent	25.9943 g	89.1 Percent	1					12/2/20 16:10:00	N	IV
K2010413-006	Solids, Total	N/A		Sediment	78.30 Percent	31.1690 g	78.3 Percent	1					12/2/20 16:10:00	N	IV
K2010413-007	Solids, Total	N/A		Sediment	75.40 Percent	27.3672 g	75.4 Percent	1					12/2/20 16:10:00	N	IV
K2010413-008	Solids, Total	N/A		Sediment	76.00 Percent	33.0574 g	76.0 Percent	1					12/2/20 16:10:00	N	IV
K2010413-009	Solids, Total	N/A		Sediment	65.00 Percent	28.3219 g	65.0 Percent	1					12/2/20 16:10:00	N	IV
K2010413-010	Solids, Total	N/A		Sediment	74.10 Percent	25.8402 g	74.1 Percent	1					12/2/20 16:10:00	N	IV
K2010413-011	Solids, Total	N/A		Sediment	76.80 Percent	29.3909 g	76.8 Percent	1					12/2/20 16:10:00	N	IV
K2010413-012	Solids, Total	N/A		Sediment	74.70 Percent	27.1432 g	74.7 Percent	1					12/2/20 16:10:00	N	IV
K2010413-013	Solids, Total	N/A		Sediment	83.30 Percent	26.7114 g	83.3 Percent	1					12/2/20 16:10:00	N	IV
K2010413-014	Solids, Total	N/A		Sediment	74.30 Percent	26.4622 g	74.3 Percent	1					12/2/20 16:10:00	N	IV
K2010413-015	Solids, Total	N/A		Sediment	86.80 Percent	25.5045 g	86.8 Percent	1					12/2/20 16:10:00	N	IV
K2010413-016	Solids, Total	N/A		Sediment	84.60 Percent	28.1523 g	84.6 Percent	1					12/2/20 16:10:00	N	IV
K2010413-017	Solids, Total	N/A		Sediment	83.20 Percent	27.2438 g	83.2 Percent	1					12/2/20 16:10:00	N	IV
K2010413-018	Solids, Total	N/A		Sediment	48.80 Percent	30.1863 g	48.8 Percent	1					12/2/20 16:10:00	N	IV
K2010413-019	Solids, Total	N/A		Sediment	53.30 Percent	27.1472 g	53.3 Percent	1					12/2/20 16:10:00	N	IV
K2010413-020	Solids, Total	N/A		Sediment	55.10 Percent	25.9745 g	55.1 Percent	1					12/2/20 16:10:00	N	IV
KQ2019225-01	Solids, Total	DUP	K2010413-001	Sediment	61.80 Percent	33.5184 g	61.8 Percent	1				<1	12/2/20 16:10:00	N	IV
KQ2019225-02	Solids, Total	DUP	K2010413-004	Sediment	74.20 Percent	32.3889 g	74.2 Percent	1				<1	12/2/20 16:10:00	N	IV
KQ2019225-03	Solids, Total	MB		Sediment	0.00 Percent	50.0864 g	0.0 Percent	1					12/2/20 16:10:00	N	IV

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

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2010413 Method: SM 2540 G

Run: 705630

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

Sample Number		MB	413-001	413-001DUP	413-002	413-003	413-004
Crucible Number		M14	10	SIERRA	17	KAYLI	24
SampleWeight		50.0864	34.5487	33.5184	27.0012	27.2778	32.4280
Tare Weight	Date	76.0428	52.8140	51.5664	51.6493	51.4735	47.8477
Tare + Dry Wt. (1)	12/3/2020	76.0420	74.2648	72.2655	72.2724	75.0017	71.8767
Tare + Dry Wt. (2)	12/3/2020	76.0400	74.2680	72.2712	72.2766	75.0044	71.8800
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	62.1%	61.8%	76.4%	86.3%	74.1%
Volatile Solids		-2715714.3%	346.2%	349.1%	350.4%	318.7%	299.1%

Sample Number		413-004DUP	413-005	413-006	413-007	413-008	413-009
Crucible Number		RAVEN	5	1	MONTE	JOSH	BEN
Sample Weight		32.3889	25.9943	31.1690	27.3672	33.0574	28.3219
Tare Weight	Date	44.1723	48.5960	51.2271	52.6320	48.6296	45.7059
Tare + Dry Wt. (1)	12/3/2020	68.2054	71.7516	75.6383	73.2618	73.7629	64.1136
Tare + Dry Wt. (2)	12/3/2020	68.2111	71.7544	75.6388	73.2614	73.7638	64.1155
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		74.2%	89.1%	78.3%	75.4%	76.0%	65.0%
Volatile Solids		283.8%	309.8%	309.8%	355.1%	293.5%	348.3%

% 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:	12/2/2020
Reviewed By:		Date:	

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2010413 Method: SM 2540 G

Run: 705630

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

Sample Number		413-010	413-011	413-012	413-013	413-014	413-015
Crucible Number		7	6	22	762	JAHA	JASPER
SampleWeight		25.8402	29.3909	27.1432	26.7114	26.4622	25.5045
Tare Weight	Date	54.4669	48.7734	51.8713	75.0553	53.5763	47.7654
Tare + Dry Wt. (1)	12/3/2020	73.6209	71.3454	72.1486	97.2998	73.2332	69.9162
Tare + Dry Wt. (2)	12/3/2020	73.6245	71.3511	72.1530	97.3005	73.2361	69.9154
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		74.1%	76.8%	74.7%	83.3%	74.3%	86.8%
Volatile Solids		384.3%	316.0%	355.8%	437.4%	372.5%	315.6%

Sample Number		413-016	413-017	413-018	413-019	413-020	
Crucible Number		3	ACP	21	BILLIE	9	
Sample Weight		28.1523	27.2438	30.1863	27.1472	25.9745	
Tare Weight	Date	50.2548	74.6676	53.8894	56.3846	52.9494	
Tare + Dry Wt. (1)	12/3/2020	74.0745	97.3382	68.6271	70.8399	67.2580	
Tare + Dry Wt. (2)	12/3/2020	74.0803	97.3424	68.6328	70.8450	67.2625	
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		84.6%	83.2%	48.8%	53.3%	55.1%	#DIV/0!
Volatile Solids		310.9%	429.3%	465.5%	489.9%	469.9%	#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:	12/2/2020
Reviewed By:	JC	Date:	12/3/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2010413 Method: SM 2540 G

Run: 705630

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

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	16:10	12/2/2020	8:45	12/3/2020
105	9:45	12/3/2020	11:05	12/3/202

Analyzed By:	BN	Date Analyzed:	12/2/2020
Reviewed By:	JC	Date Reviewed:	12/3/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2010413 Method: SM 2540 G

Run: 705630

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

CCV Verification SN:1000122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9967	100.0%	CCV1	9.9987	100.0%	12/2/2020
CCV2	199.9972	100.0%	CCV2	9.9987	100.0%	12/2/2020
CCV3	199.9961	100.0%	CCV3	9.9982	100.0%	12/3/2020
CCV4	199.9963	100.0%	CCV4	9.9981	100.0%	12/3/2020
CCV5	199.9970	100.0%	CCV5	9.9989	100.0%	12/3/2020
CCV6	199.9972	100.0%	CCV6	9.9985	100.0%	12/3/2020
~~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:	12/2/2020
Reviewed By:		Date Reviewed:	12/3/20

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#: 369615
Team: Semivoa GC/BGREER
Number of Copies to make: 1

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/11/20 15:48

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2010413-001	USMPDI-021SC-B-00-02-201107	.01	8151A/HERB		Sediment	30.252g	50.00mL	JGRIMES K-Balance-49
2	K2010413-002	USMPDI-021SC-B-02-04-201107	.01	8151A/HERB		Sediment	30.227g	50.00mL	JGRIMES K-Balance-49
3	K2010413-003	USMPDI-021SC-B-04-06-201107	.01	8151A/HERB		Sediment	30.030g	50.00mL	JGRIMES K-Balance-49
4	K2010413-004	USMPDI-021SC-B-06-08-201107	.02	8151A/HERB		Sediment	30.007g	50.00mL	JGRIMES K-Balance-49
5	K2010413-005	USMPDI-021SC-B-08-10-201107	.01	8151A/HERB		Sediment	30.001g	50.00mL	JGRIMES K-Balance-49
6	K2010413-006	USMPDI-021SC-B-10-12-201107	.01	8151A/HERB		Sediment	30.054g	50.00mL	JGRIMES K-Balance-49
7	K2010413-007	USMPDI-021SC-B-12-14-201107	.01	8151A/HERB		Sediment	30.076g	50.00mL	JGRIMES K-Balance-49
8	K2010413-008	USMPDI-021SC-B-14-15.4-201107	.01	8151A/HERB		Sediment	30.195g	50.00mL	JGRIMES K-Balance-49
9	K2010413-009	USMPDI-023SC-B-00-02-201107	.01	8151A/HERB		Sediment	30.026g	50.00mL	JGRIMES K-Balance-49
10	K2010413-010	USMPDI-023SC-B-02-04-201107	.01	8151A/HERB		Sediment	30.150g	50.00mL	JGRIMES K-Balance-49
11	K2010413-011	USMPDI-023SC-B-04-06-201107	.01	8151A/HERB		Sediment	30.236g	50.00mL	JGRIMES K-Balance-49
12	K2010413-012	USMPDI-023SC-B-06-08-201107	.01	8151A/HERB		Sediment	30.090g	50.00mL	JGRIMES K-Balance-49
13	K2010413-013	USMPDI-023SC-B-08-10-201107	.01	8151A/HERB		Sediment	30.041g	50.00mL	JGRIMES K-Balance-49
14	K2010413-014	USMPDI-023SC-B-10-12-201107	.01	8151A/HERB		Sediment	30.227g	50.00mL	JGRIMES K-Balance-49
15	K2010413-015	USMPDI-023SC-B-12-14-201107	.01	8151A/HERB		Sediment	30.033g	50.00mL	JGRIMES K-Balance-49
16	K2010413-016	USMPDI-023SC-B-14-16-201107	.01	8151A/HERB		Sediment	30.079g	50.00mL	JGRIMES K-Balance-49
17	K2010413-017	USMPDI-1023SC-B-08-10-201107	.01	8151A/HERB		Sediment	30.032g	50.00mL	JGRIMES K-Balance-49
18	K2010413-018	USMPDI-056SC-B-00-02-201107	.01	8151A/HERB		Sediment	30.045g	50.00mL	JGRIMES K-Balance-49
19	K2010413-019	USMPDI-056SC-B-02-04-201107	.01	8151A/HERB		Sediment	30.084g	50.00mL	JGRIMES K-Balance-49
20	K2010413-020	USMPDI-056SC-B-04-06-201107	.01	8151A/HERB		Sediment	30.229g	50.00mL	JGRIMES K-Balance-49
21	KQ2017769-01	K2010413-004 MS	.02	8151A/HERB		Solid	30.093g	50.00mL	JGRIMES K-Balance-49
22	KQ2017769-02	K2010413-004 DMS	.02	8151A/HERB		Solid	30.152g	50.00mL	JGRIMES K-Balance-49
23	KQ2017769-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	
24	KQ2017769-04	MB		8151A/HERB		Solid	30.2520g	50.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate Inventory ID 213982 Logbook Ref: Penta02-15M Expires On: 05/22/2021

K2010413-001	1,000.00µL	K2010413-002	1,000.00µL	K2010413-003	1,000.00µL	K2010413-004	1,000.00µL	K2010413-005	1,000.00µL	K2010413-006	1,000.00µL
K2010413-007	1,000.00µL	K2010413-008	1,000.00µL	K2010413-009	1,000.00µL	K2010413-010	1,000.00µL	K2010413-011	1,000.00µL	K2010413-012	1,000.00µL
K2010413-013	1,000.00µL	K2010413-014	1,000.00µL	K2010413-015	1,000.00µL	K2010413-016	1,000.00µL	K2010413-017	1,000.00µL	K2010413-018	1,000.00µL
K2010413-019	1,000.00µL	K2010413-020	1,000.00µL	KQ2017769-01	1,000.00µL	KQ2017769-02	1,000.00µL	KQ2017769-03	1,000.00µL	KQ2017769-04	1,000.00µL

Name: 8151A 5-500ppm Herbicides matrix spike Inventory ID 213987 Logbook Ref: penta02-15N Expires On: 05/22/2021

Preparation Information Benchsheet

Prep Run#: 369615
Team: Semivoa GC/BGREER

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/11/20 15:48

KQ2017769-01 1,000.00µL   KQ2017769-02 1,000.00µL   KQ2017769-03 1,000.00µL

Preparation Steps

Step:	Weigh	Step:	Extraction	Step:	Derivitization	Step:	Final Volume
Started:	11/11/20 15:48	Started:	11/23/20 16:55	Started:	11/25/20 09:05	Started:	11/25/20 09:35
Finished:	11/24/20 05:21	Finished:	11/23/20 17:25	Finished:	11/25/20 09:35	Finished:	11/25/20 11:00
By:	BGREER	By:	BGREER	By:	TNORRIS	By:	TNORRIS
Comments		Comments		Comments		Comments	

Comments: Hu Alepatt A1 – C4

Reviewed By: ______________ Date: ______________

Chain of Custody

Relinquished By: Mood   Date: 11/25/20
Received By: ______________   Date: ______________

Extracts Examined
Yes   No

Preparation Information Benchsheet

Prep Run#: 369615
Team: Semivoa GC/BGREER
Number of Copies to make: 1

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

[redacted]

Status: Draft
Prep Date/Time: 11/11/20 15:48 PM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. g	pH	Int. Vol mL	Final Vol mL	Surr Amt µl	Spike Amt µl
1	K2010413-001	USMPDI-021SC-B-00-02-201107	.01	✓	8151A / HERB	Sediment	*	N/A		50	1000	—
2	K2010413-002	USMPDI-021SC-B-02-04-201107	.01	✓	8151A / HERB	Sediment	*			50		
3	K2010413-003	USMPDI-021SC-B-04-06-201107	.01	✓	8151A / HERB	Sediment	*			50		
4	K2010413-004	USMPDI-021SC-B-06-08-201107	.02	✓	8151A / HERB	Sediment	*			50		
5	K2010413-005	USMPDI-021SC-B-08-10-201107	.01	✓	8151A / HERB	Sediment	*			50		
6	K2010413-006	USMPDI-021SC-B-10-12-201107	.01	✓	8151A / HERB	Sediment	*			50		
7	K2010413-007	USMPDI-021SC-B-12-14-201107	.01	✓	8151A / HERB	Sediment	*			50		
8	K2010413-008	USMPDI-021SC-B-14-15.4-201107	.01	✓	8151A / HERB	Sediment	*			50		
9	K2010413-009	USMPDI-023SC-B-00-02-201107	.01	✓	8151A / HERB	Sediment	*			50		
10	K2010413-010	USMPDI-023SC-B-02-04-201107	.01	✓	8151A / HERB	Sediment	*			50		
11	K2010413-011	USMPDI-023SC-B-04-06-201107	.01	✓	8151A / HERB	Sediment	*			50		
12	K2010413-012	USMPDI-023SC-B-06-08-201107	.01	✓	8151A / HERB	Sediment	*			50		
13	K2010413-013	USMPDI-023SC-B-08-10-201107	.01	✓	8151A / HERB	Sediment	*			50		
14	K2010413-014	USMPDI-023SC-B-10-12-201107	.01	✓	8151A / HERB	Sediment	*			50		
15	K2010413-015	USMPDI-023SC-B-12-14-201107	.01	✓	8151A / HERB	Sediment	*			50		
16	K2010413-016	USMPDI-023SC-B-14-16-201107	.01	✓	8151A / HERB	Sediment	*			50		
17	K2010413-017	USMPDI-1023SC-B-08-10-201107	.01	✓	8151A / HERB	Sediment	*			50		
18	K2010413-018	USMPDI-056SC-B-00-02-201107	.01	✓	8151A / HERB	Sediment	*			50		
19	K2010413-019	USMPDI-056SC-B-02-04-201107	.01	✓	8151A / HERB	Sediment	*			50		
20	K2010413-020	USMPDI-056SC-B-04-06-201107	.01	✓	8151A / HERB	Sediment	*			50		
21	KQ2017769-01	K2010413-004 MS	.02	✓	8151A / HERB	Solid	*			50		1000
22	KQ2017769-02	K2010413-004 DMS	.02	✓	8151A / HERB	Solid	*			50		1
23	KQ2017769-03	LCS		✓	8151A / HERB	Solid	30.000			50		—
24	KQ2017769-04	MB		✓	8151A / HERB	Solid	30.252			50	—	

Comments: * See preprep sheet

Surrogate ID: Penta02-15M 5ppm Ace xp: 5/22/21 1000µl

Spike ID: Penta02-15N 5-500ppm Ace xp: 5/22/21 1000µl

Witnessed By: [signature]

Analyst: BGreer

Assisted By: [signature]

Pre-Prep Information Benchsheet

Prep Run #: 369615 **Container Lot No:** 092120-1TW, 0-244-001 **Prep Due Date:** Nov-16-2020

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2010413-001	.01	HERB : 8151A	30.252g		JGRIMES K-Balance-49
2	K2010413-002	.01	HERB : 8151A	30.227g		JGRIMES K-Balance-49
3	K2010413-003	.01	HERB : 8151A	30.030g		JGRIMES K-Balance-49
4	K2010413-004	.02	HERB : 8151A	30.007g		JGRIMES K-Balance-49
5	K2010413-004 MS KQ2017769-01	.02	HERB : 8151A	30.093g		JGRIMES K-Balance-49
6	K2010413-004 DMS KQ2017769-02	.02	HERB : 8151A	30.152g		JGRIMES K-Balance-49
7	K2010413-005	.01	HERB : 8151A	30.001g		JGRIMES K-Balance-49
8	K2010413-006	.01	HERB : 8151A	30.054g		JGRIMES K-Balance-49
9	K2010413-007	.01	HERB : 8151A	30.076g		JGRIMES K-Balance-49
10	K2010413-008	.01	HERB : 8151A	30.195g		JGRIMES K-Balance-49
11	K2010413-009	.01	HERB : 8151A	30.026g		JGRIMES K-Balance-49
12	K2010413-010	.01	HERB : 8151A	30.150g		JGRIMES K-Balance-49
13	K2010413-011	.01	HERB : 8151A	30.236g		JGRIMES K-Balance-49
14	K2010413-012	.01	HERB : 8151A	30.090g		JGRIMES K-Balance-49
15	K2010413-013	.01	HERB : 8151A	30.041g		JGRIMES K-Balance-49
16	K2010413-014	.01	HERB : 8151A	30.227g		JGRIMES K-Balance-49
17	K2010413-015	.01	HERB : 8151A	30.033g		JGRIMES K-Balance-49
18	K2010413-016	.01	HERB : 8151A	30.079g		JGRIMES K-Balance-49
19	K2010413-017	.01	HERB : 8151A	30.032g		JGRIMES K-Balance-49
20	K2010413-018	.01	HERB : 8151A	30.045g		JGRIMES K-Balance-49
21	K2010413-019	.01	HERB : 8151A	30.084g		JGRIMES K-Balance-49
22	K2010413-020	.01	HERB : 8151A	30.229g		JGRIMES K-Balance-49

~~Deliver~~ Delivered to freezer 11-11-20

Relinquished By:	Date/Time:	Received By:	Date/Time:
JG	15:55		

[redacted]

Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # K2010413 **Work Group #** KQ2017769

Acidified Sulfate Lot # DZ0387N Matrix Sand Lot # 012448

Ethyl Ether Lot # DZ487 Hydrochloric Acid Lot # S8242

Wrist Action Shaker Start (time/date/initial): 16:55 11/23/20 GA

Wrist Action Shaker Stop (time/date/initial): 17:25 11/23/20 GA

N-Evap (time/date/initial): 0958 11/24/20 BG N-Evap Thermometer ID: X-SVM-004

Temp as measured: 20 °C Correction factor: 0.0 °C Adjusted temp: 20.0 °C

Saponification Start (time/date/initial): 1115 11/24/20 BG 37% KOH Lot # DZ0380K

Saponification Stop (time/date/initial): 1225 11/24/20 BG

Extraction Start (time/date/initial): 1600 11/24/20 BG Sulfuric Acid Lot # DZ0379G

Extraction Stop (time/date/initial): 1630 11/24/20 BG

Derivatization Start (time/date/initial): 0905 11/25/20 [illegible] Diazomethane Lot # DZ02-43R

Derivatization Stop (time/date/initial): 0935 11/25/20 [illegible]

Pipette (5 mL) Lot # 04420647

Solvent Exchange to Iso-Octane (time/date/initial): 0935 11/25/20 [illegible]

Iso-Octane Lot # DY719-W N-Evap Thermometer ID: [illegible]

Temp as measured: 20 °C Correction factor: 0 °C Adjusted temp: 20 °C

Pipette (1 mL) Lot # 0272045

Vial: red Vial Storage: Hang AB 1-10, C 1-4

Archive Storage: Beatles [illegible]

Additional Comments: completed 1000 11/25/20 [illegible]

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 SM 11/30/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300008.D\
Lab ID: K2010413-001
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 12:27:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 11/30/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300008.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 12:27:00	**Vial:**	63
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-001	**Raw Units:**	ppb

Bottle ID:	K2010413-001.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1323414	4096385	72.729	96.846	73	97	73	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.21 -0.05	10.10 -0.04	15527	692589	0.166	3.412	0.44U	9.1J	3.9 U	Y
2,4-D	9.34 +0.02	9.04 -0.03	12416	100319	0.585	1.959	1.6U	5.2U	13 U	Y

Prep Amount:	30.252 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	62.10

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300008.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 12:27 pm Operator: UA
Sample : K2010413-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:27:38 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.990	7.824	1323414	4096385	72.729	96.846	#
	Target Compounds							
1) m	Dalapon	3.137	2.877	203029	189378	8.369	3.920	#
3) m	Dicamba	8.187	7.940	35375	117639	0.507	0.794	#
4) m	MCPP	8.317	8.110	139223	69242	3504.741	N.D.	#
5) m	MCPA	8.603	8.360	24408	136073	416.856	N.D.	#
6) m	Dichloroprop	8.967	8.784	120964	38423	6.487	0.921	#
7) m	2,4-D	9.340	9.040	12416	100319	0.585m	1.959	#
8) m	2,4,5-TP ...	10.213f	10.100	15527	692589	0.166	3.412	#
9) m	2,4,5-T	10.697	10.550	108848	14965	1.319	0.078	#
10) m	2,4-DB	11.280	11.184	21886	145280	2.133	5.007	#
11) m	Dinoseb	11.657	11.337	124405	115896	2.011	0.847	#

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

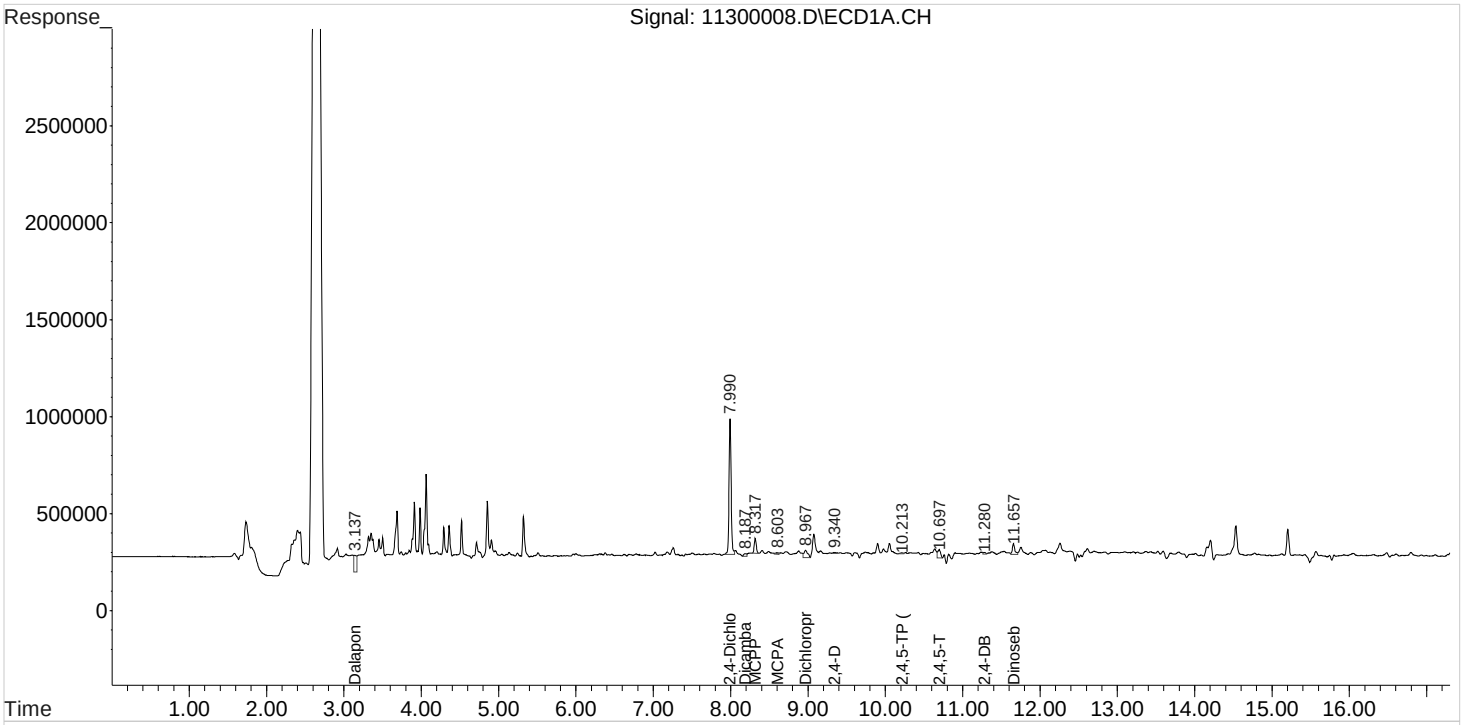
Quantitation Report (QT Reviewed)

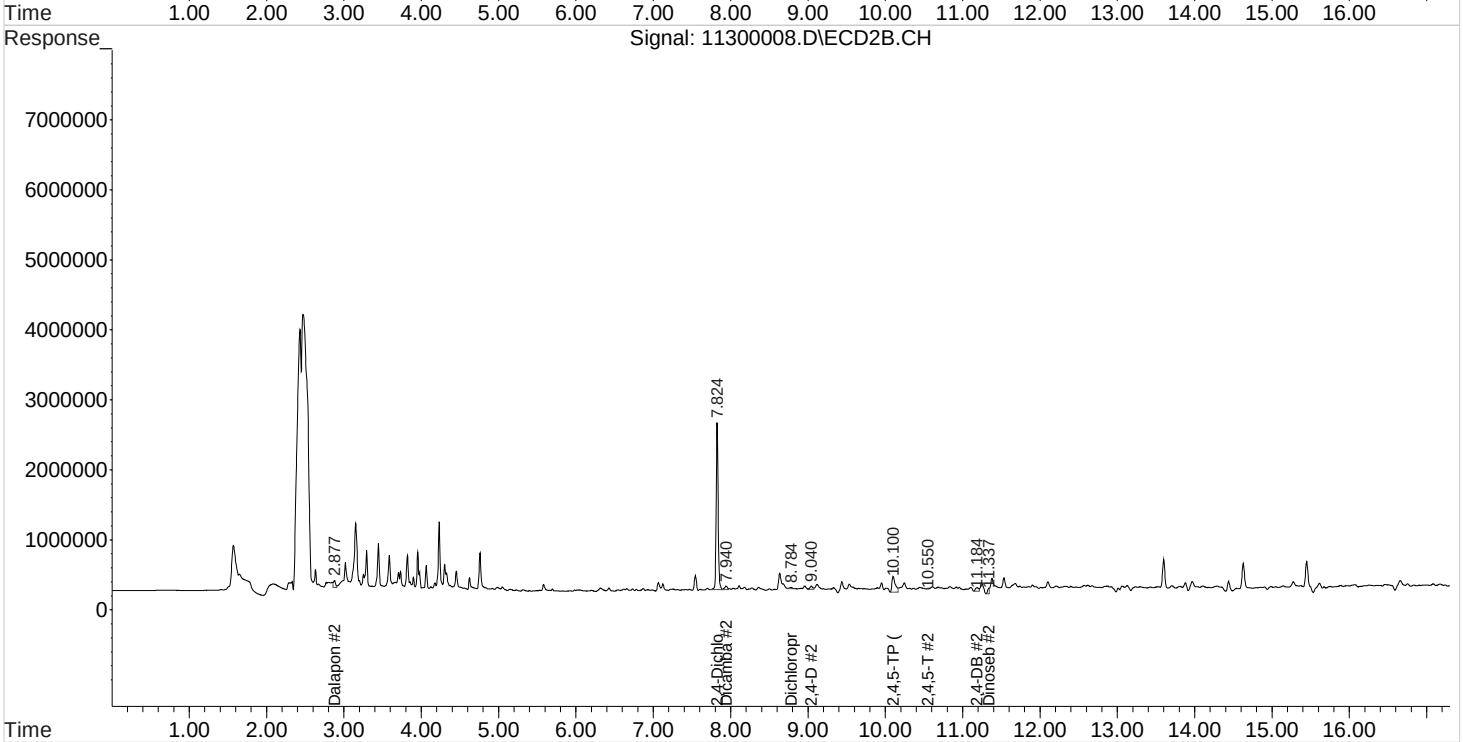
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300008.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 12:27 pm Operator: UA
Sample : K2010413-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:27:38 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



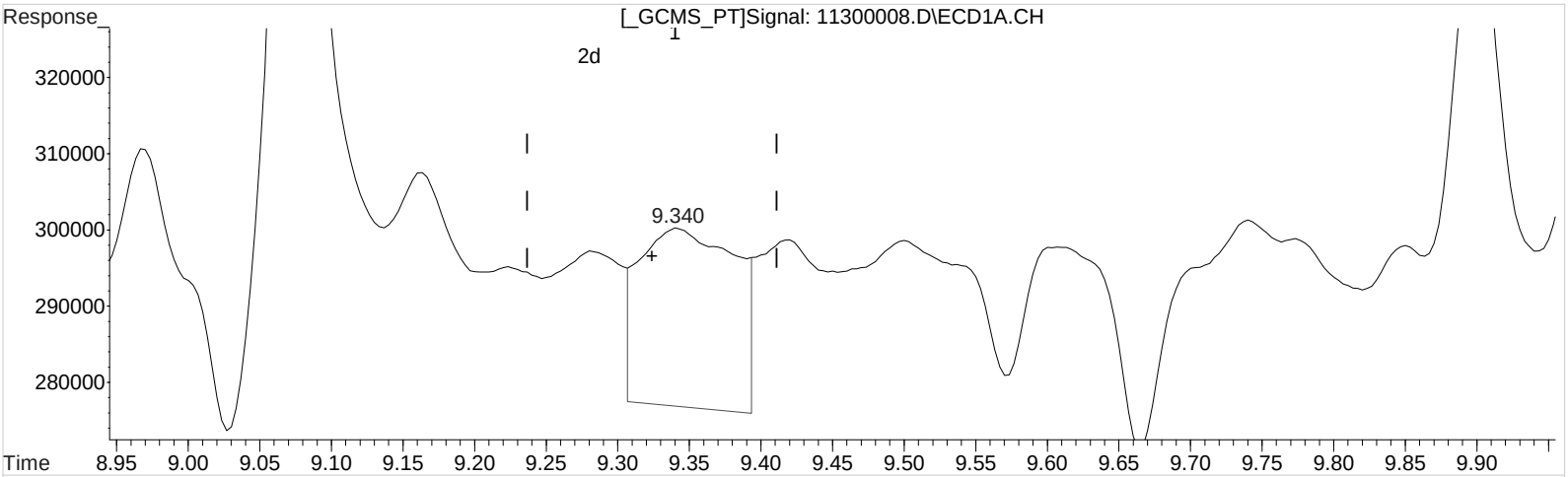


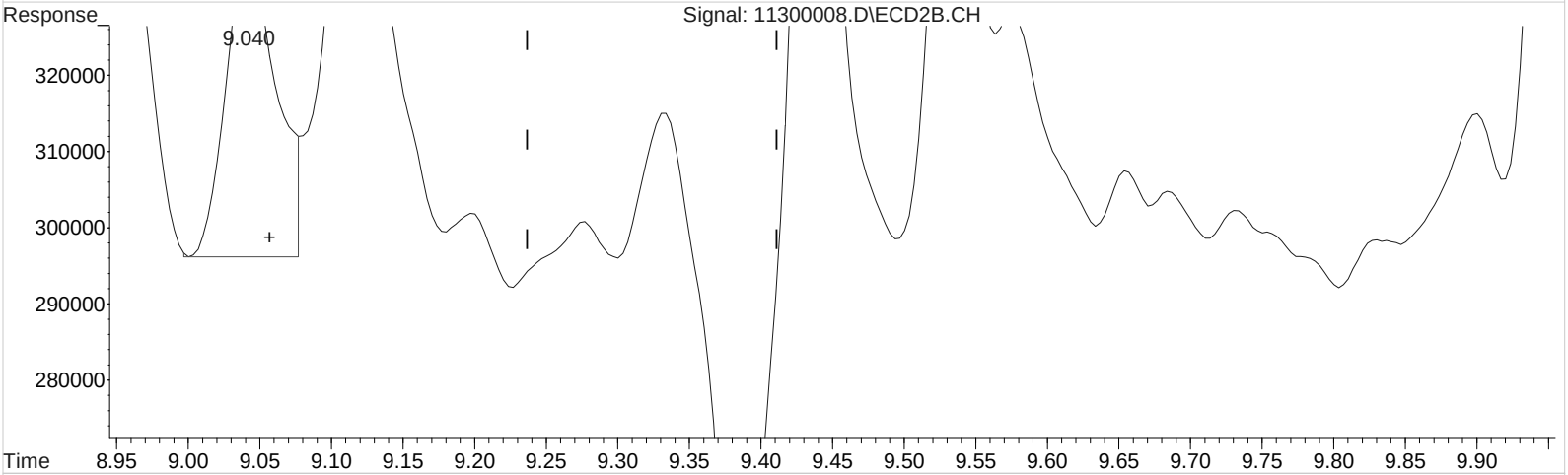
1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300008.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 12:27 pm Operator: UA
Sample : K2010413-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:22:51 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.340min 5.185 ppb

response 110127

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

9.040min 1.959 ppb

response 100319

Manual Integration:

Before

11/30/20

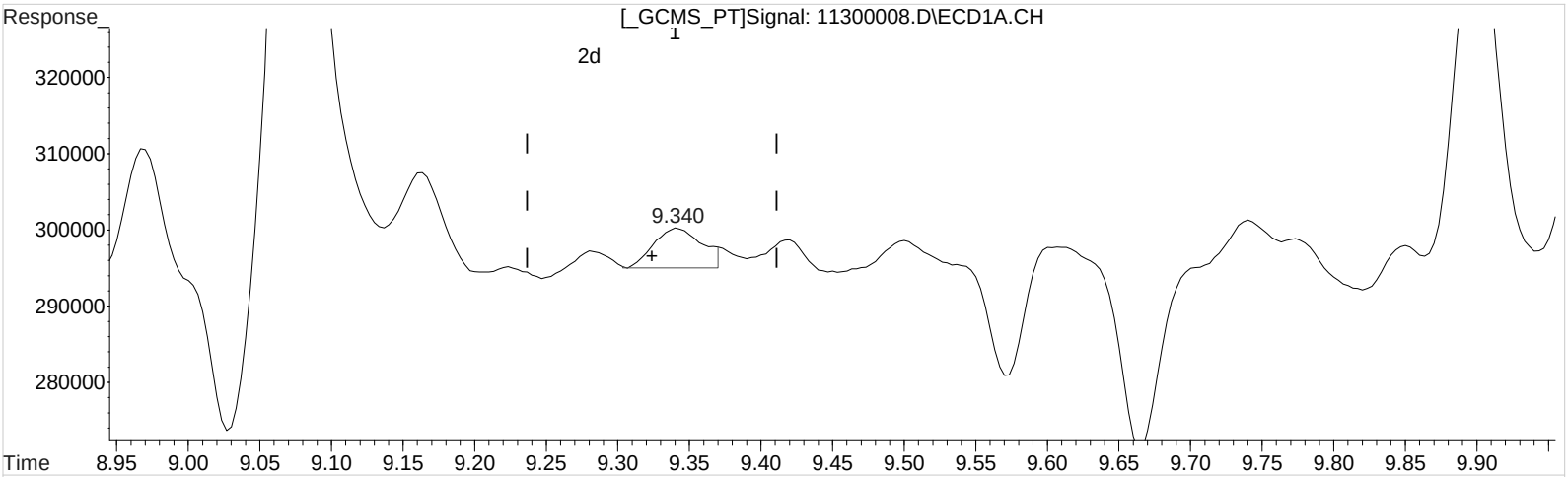
(+) = Expected Retention Time

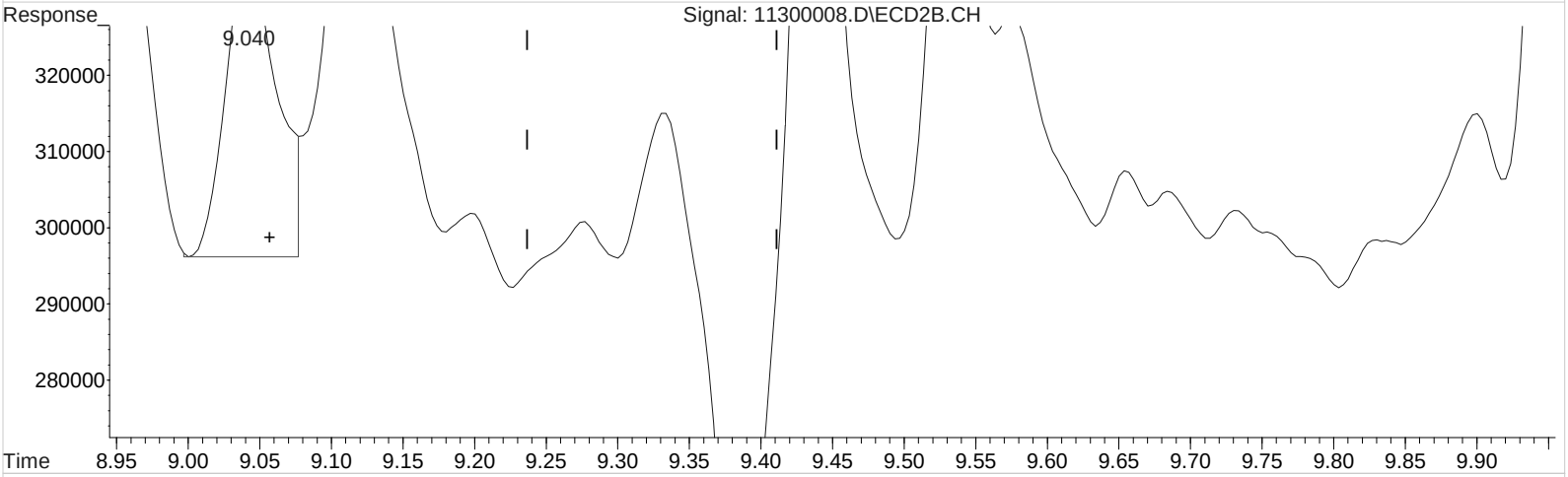
1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300008.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 12:27 pm Operator: UA
Sample : K2010413-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:22:51 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.340min 0.585 ppb m

response 12416

Manual Integration:

After

Baseline/Shoulder

11/30/20

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

9.040min 1.959 ppb

response 100319

(+) = Expected Retention Time

1st SM 11/30/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300009.D\
Lab ID: K2010413-002
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 12:50:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 11/30/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300009.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 12:50:00	**Vial:**	64
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-002	**Raw Units:**	ppb

Bottle ID:	K2010413-002.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83 +0.01	1239960	3732370	68.142	88.240	68	88	68	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	10.26	10.10 -0.04	7182	202405	0.077	0.997	0.17U	2.2U	3.2 U	Y
2,4-D	9.28 -0.04	9.04 -0.03	5722	42399	0.269	0.828	0.58U	1.8U	11 U	Y

Prep Amount:	30.227 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	76.40

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300009.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 12:50 pm Operator: UA
Sample : K2010413-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:28:05 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.993	7.826	1239960	3732370	68.142	88.240	#
		Target Compounds							
1)	m	Dalapon	3.136	2.876	58166	74731	2.398	1.547	#
3)	m	Dicamba	8.213	7.943	17191	62669	0.246	0.423	#
4)	m	MCPP	8.319	8.110	82694	44089	2288.283	N.D.	#
5)	m	MCPA	8.586	8.360	15498	84298	264.685	N.D.	#
6)	m	Dichloroprop	8.966	8.776	36853	15444	1.976	0.370	#
7)	m	2,4-D	9.279	9.043	5722	42399	0.269m	0.828	#
8)	m	2,4,5-TP ...	10.259	10.100	7182	202405	0.077	0.997	#
9)	m	2,4,5-T	10.696	10.483	23207	136320	0.281	0.712	#
10)	m	2,4-DB	11.249	11.183	53889	39384	5.253	1.357	#
11)	m	Dinoseb	11.656	11.380f	110267	769975	1.782	5.630	#

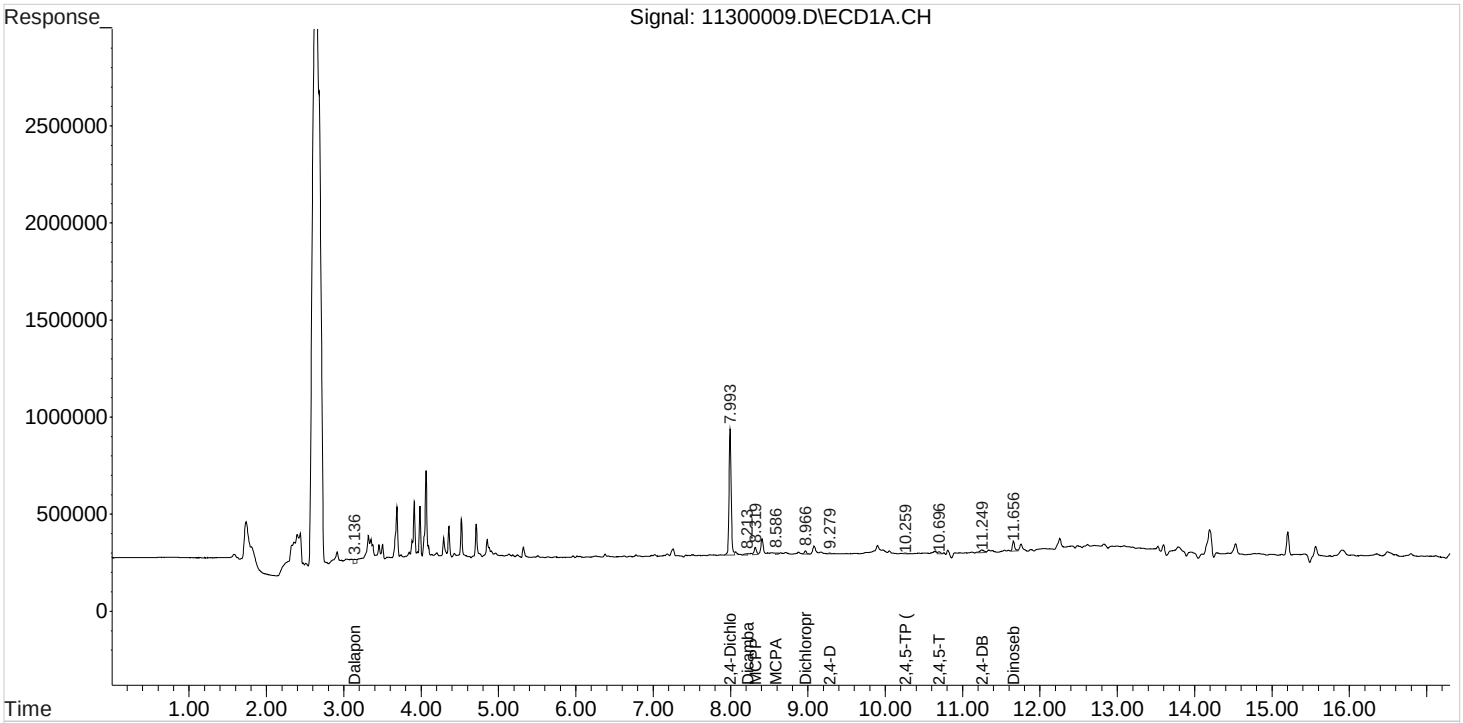
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

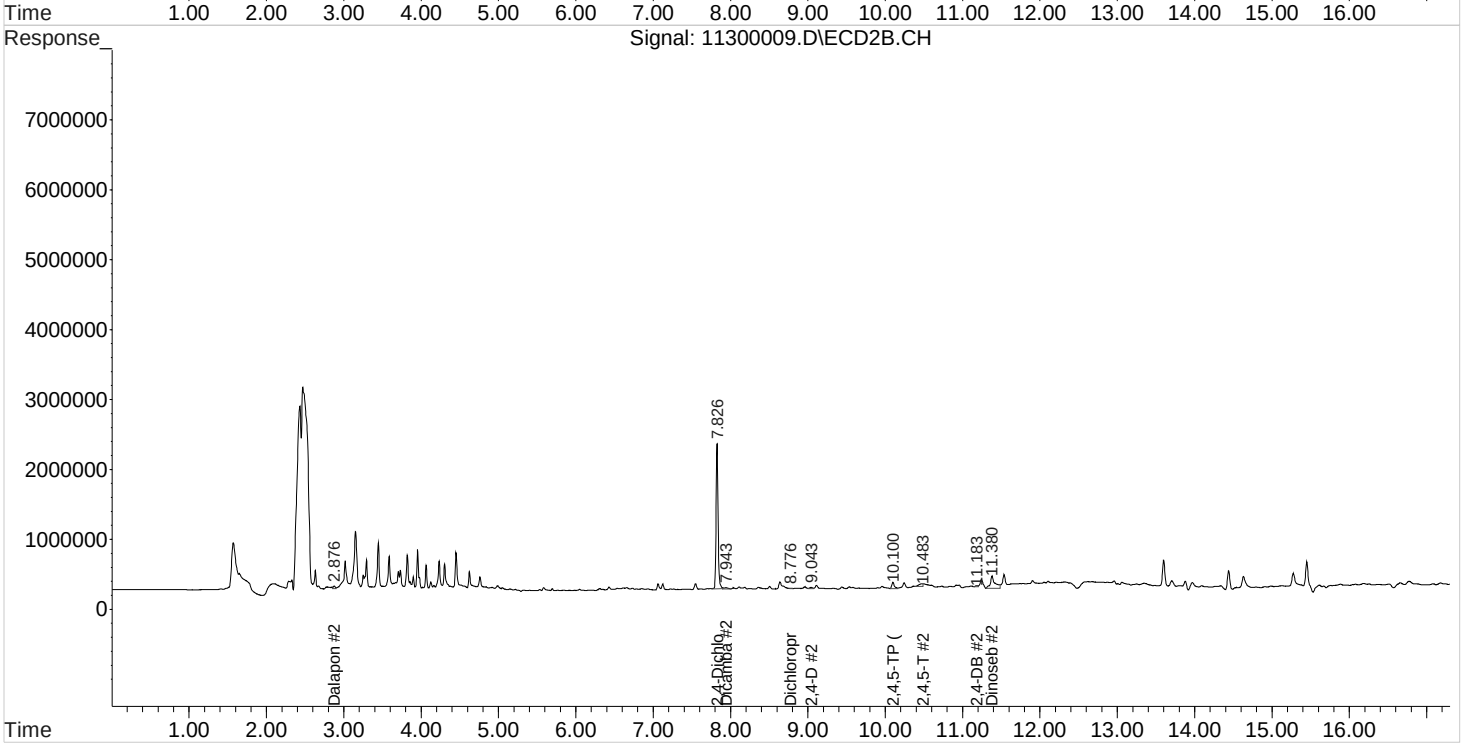
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300009.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 12:50 pm Operator: UA
Sample : K2010413-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:28:05 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





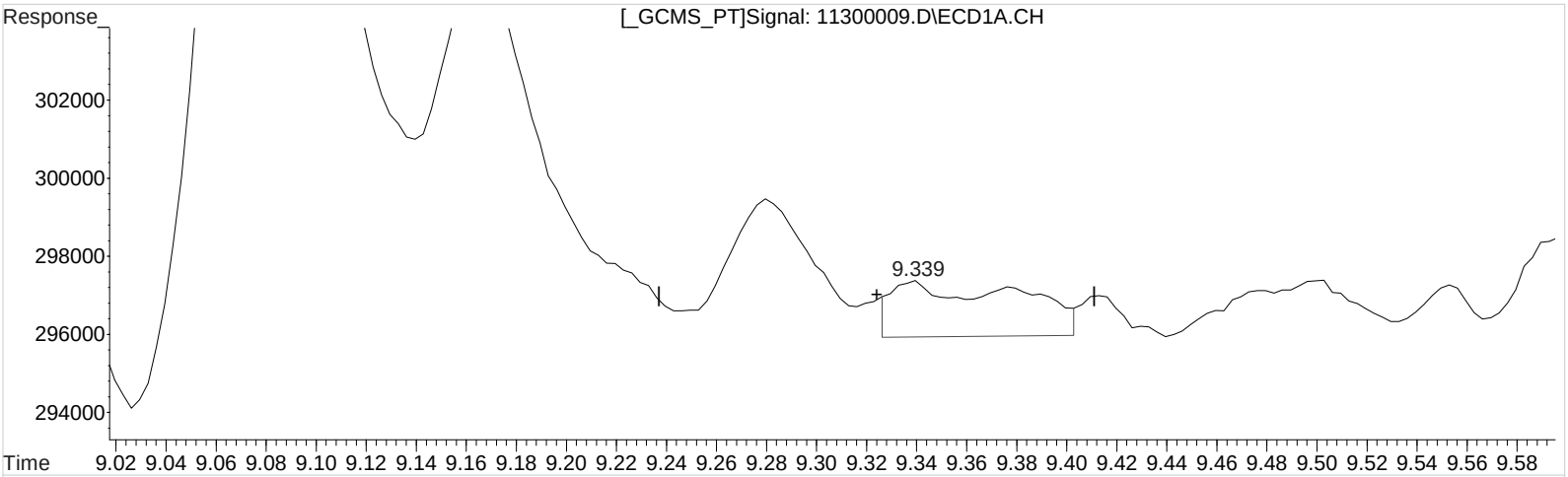
Quantitation Report (Qedit)

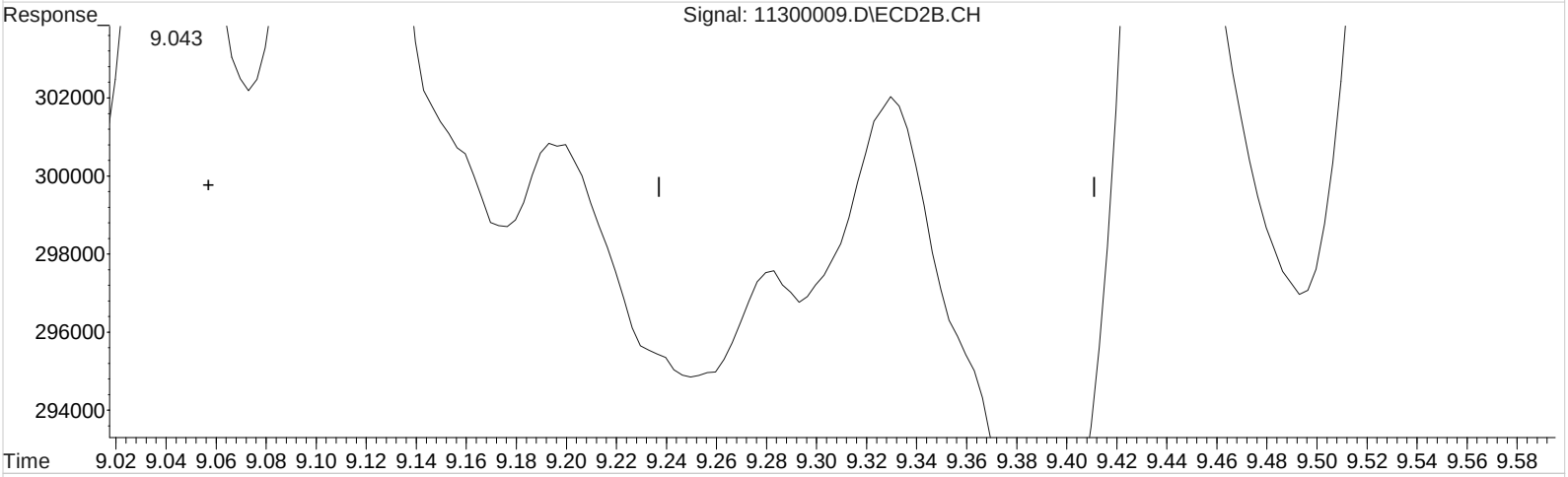
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300009.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 12:50 pm Operator: UA
Sample : K2010413-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:22:54 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.339min 0.234 ppb

response 4967

Manual Integration:

Before

11/30/20

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

9.043min 0.828 ppb

response 42399

(+) = Expected Retention Time

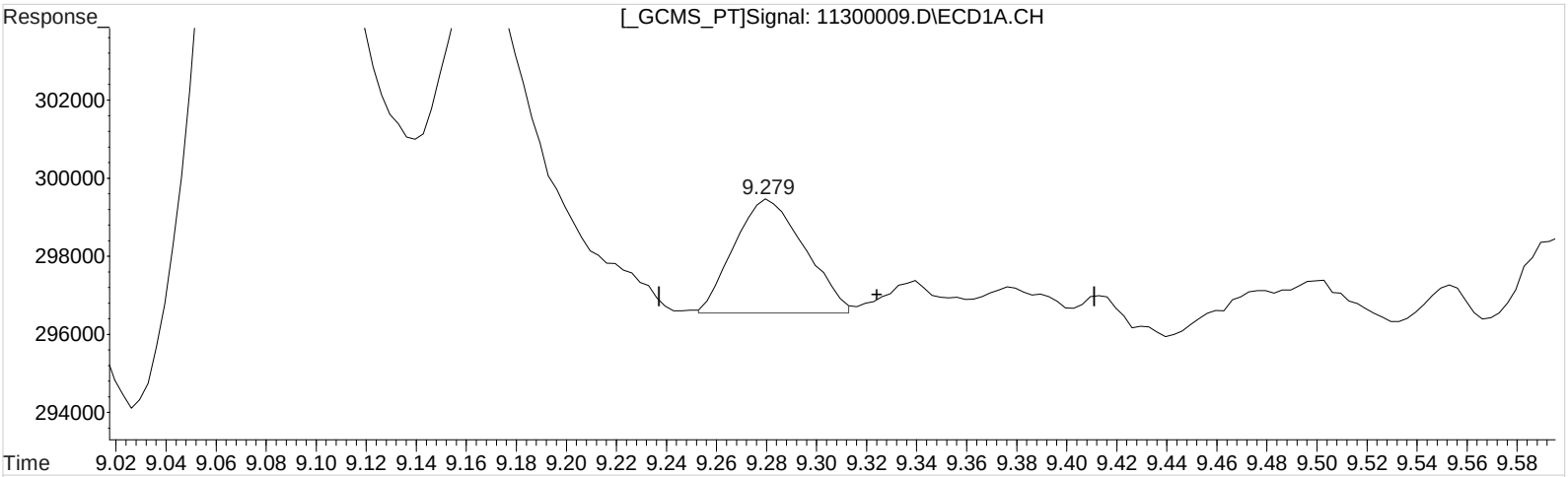
Quantitation Report (Qedit)

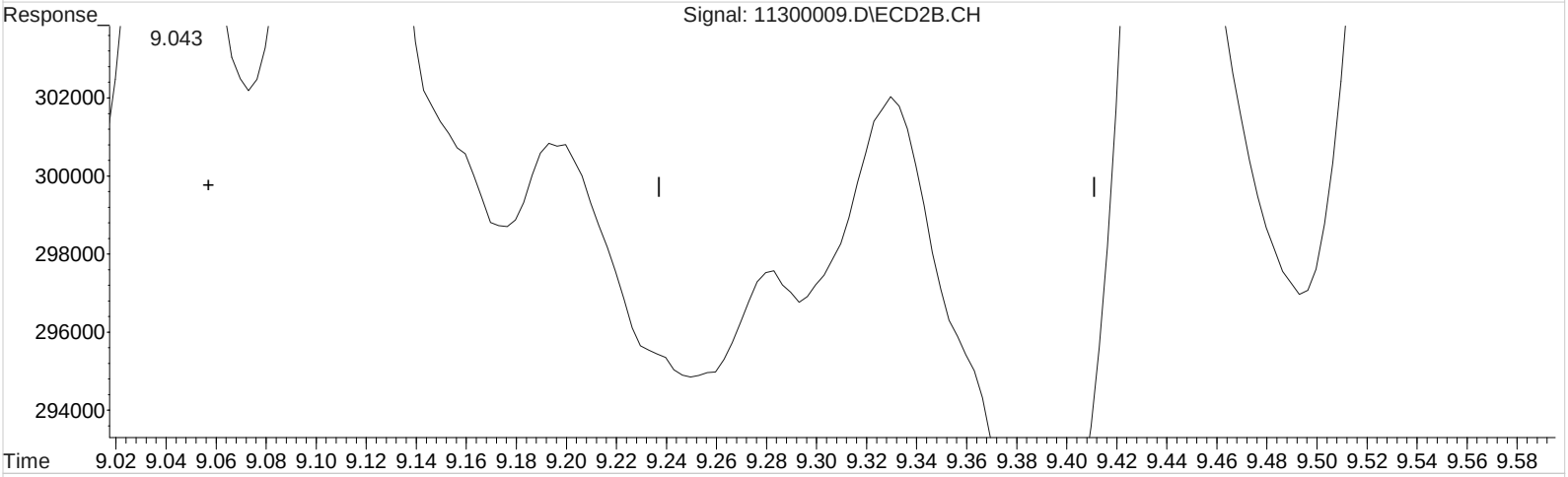
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300009.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 12:50 pm Operator: UA
Sample : K2010413-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:22:54 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.279min 0.269 ppb m

response 5722

Manual Integration:

After

Wrong Peak

11/30/20

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

9.043min 0.828 ppb

response 42399

(+) = Expected Retention Time

1st SM 11/30/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300010.D\
Lab ID: K2010413-003
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 13:13:00
Batch ID: 705301
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 - ZB-XLB-HT	Dicamba	7.83			CEND
	DCAA	7.83			CEND

Primary Review: _____

Printed: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 11/30/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300010.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 13:13:00	**Vial:**	65
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-003	**Raw Units:**	ppb

Bottle ID:	K2010413-003.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83 +0.0 c	1218113	3668423	66.942	86.728	67	87	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	10.26	10.10 -0.04	5743	54520	0.061	0.269	0.12U	0.52U	2.8 U	Y
2,4-D	9.29 -0.03	9.05 -0.02	5941	23220	0.280	0.454	0.54U	0.88U	9.0 U	Y

Prep Amount:	30.030 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	86.30

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300010.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 1:13 pm Operator: UA
Sample : K2010413-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:22:57 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.992	7.826	1218113	3668423	66.942	86.728	#
	Target Compounds							
1) m	Dalapon	3.106	2.876	8496	24995	0.350	0.517	#
3) m	Dicamba	8.216	7.826f	6817	3668423	0.098	24.751	#
4) m	MCPP	8.286	8.109	3141	5582	576.368	N.D.	#
5) m	MCPA	8.556	8.356	1310	48836	22.373	N.D.	#
6) m	Dichloroprop	8.969	8.786	20566	2743	1.103	0.066	#
7) m	2,4-D	9.286	9.046	5941	23220	0.280	0.454	#
8) m	2,4,5-TP ...	10.262	10.099	5743	54520	0.061	0.269	#
9) m	2,4,5-T	10.706	10.493	1762	182334	0.021	0.953	#
10) m	2,4-DB	11.266	11.179	123585	13302	12.046	0.458	#
11) m	Dinoseb	11.659	11.379f	107425	332332	1.736	2.430	#

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

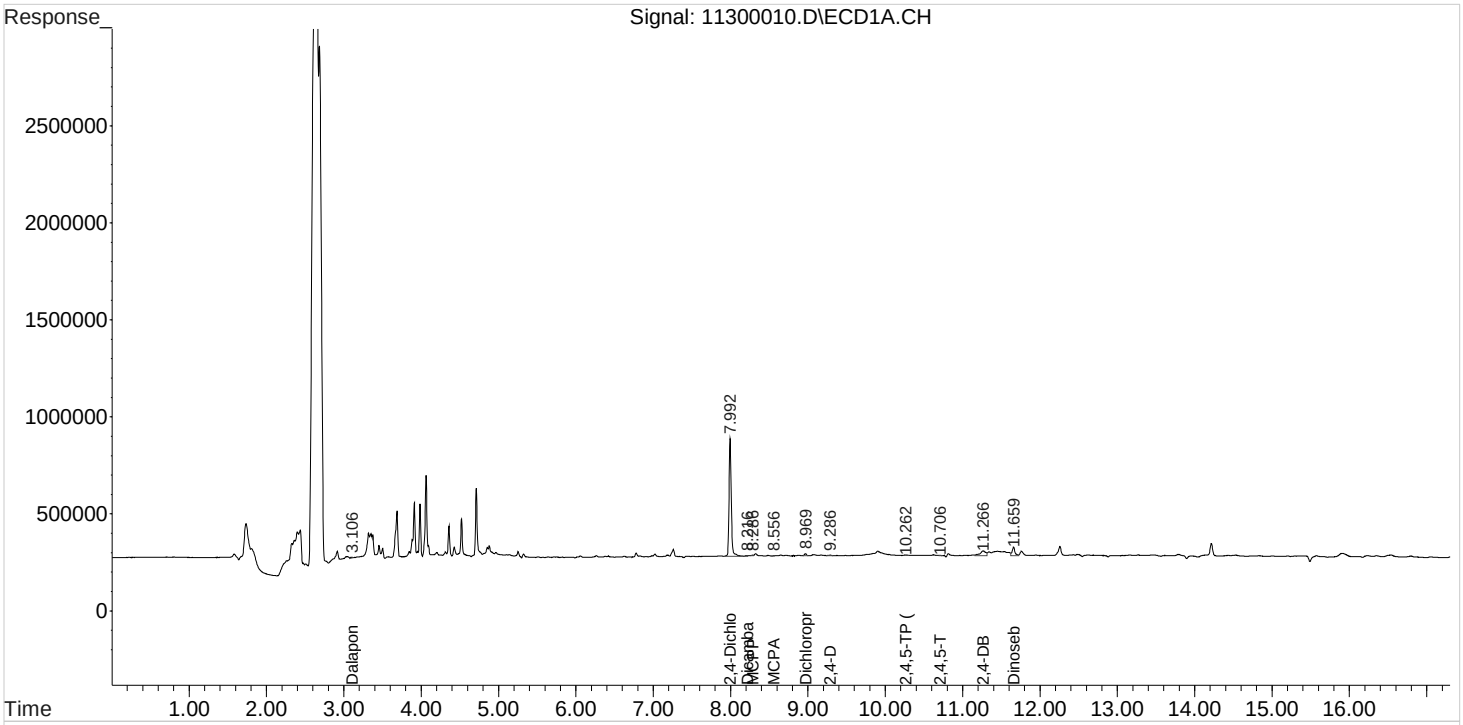
Quantitation Report (QT Reviewed)

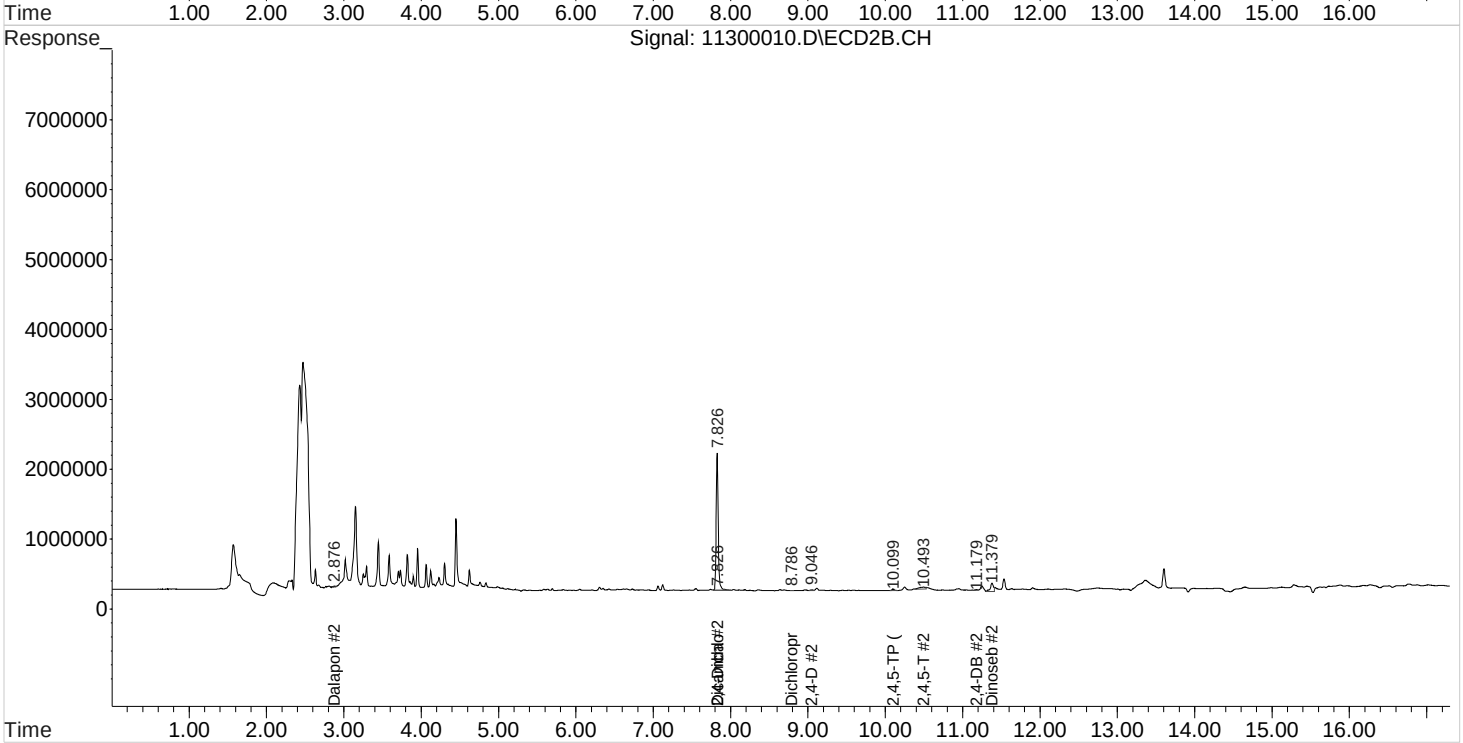
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300010.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 1:13 pm Operator: UA
Sample : K2010413-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:22:57 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 11/30/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300011.D\
Lab ID: K2010413-004
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 13:36:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 11/30/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300011.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 13:36:00	**Vial:**	66
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-004	**Raw Units:**	ppb

Bottle ID:	K2010413-004.02	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83 +0.01	1190800	3842644	65.441	90.847	65	91	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	10.26	10.10 -0.04	10753	67308	0.115	0.332	0.26U	0.75U	3.3 U	Y
2,4-D	0.00	9.05 -0.02	0	34457	0.000	0.673	0U	1.5U	11 U	Y

Prep Amount:	30.007 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	74.10

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300011.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 1:36 pm Operator: UA
Sample : K2010413-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:28:30 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.992	7.826	1190800	3842644	65.441	90.847	#
	Target Compounds							
1) m	Dalapon	3.139	2.879	2877	393688	0.119	8.149	#
3) m	Dicamba	8.206	7.939	5278	68715	0.076	0.464	#
4) m	MCPP	8.322	8.109	41374	46183	1399.111	N.D.	#
5) m	MCPA	8.596	8.363	4236	50964	72.345	N.D.	#
6) m	Dichloroprop	8.969	8.769	32385	6376	1.737	0.153	#
7) m	2,4-D	0.000	9.046	0	34457	N.D. d	0.673	
8) m	2,4,5-TP ...	10.262	10.099	10753	67308	0.115	0.332	#
9) m	2,4,5-T	10.706	10.549	4685	2841	0.057	0.015	#
10) m	2,4-DB	11.256	11.179	33122	18776	3.228	0.647	#
11) m	Dinoseb	11.659	11.249f	89115	271531	1.440	1.986	#

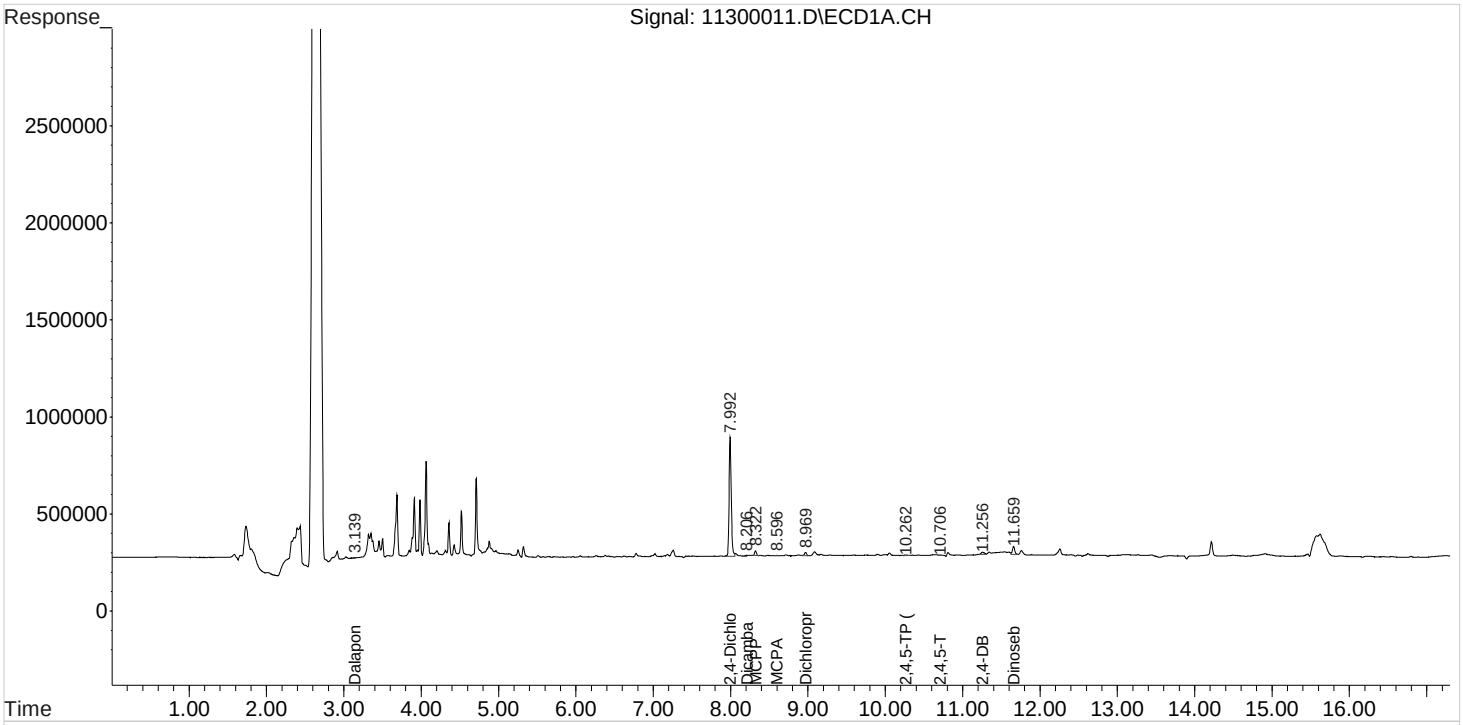
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

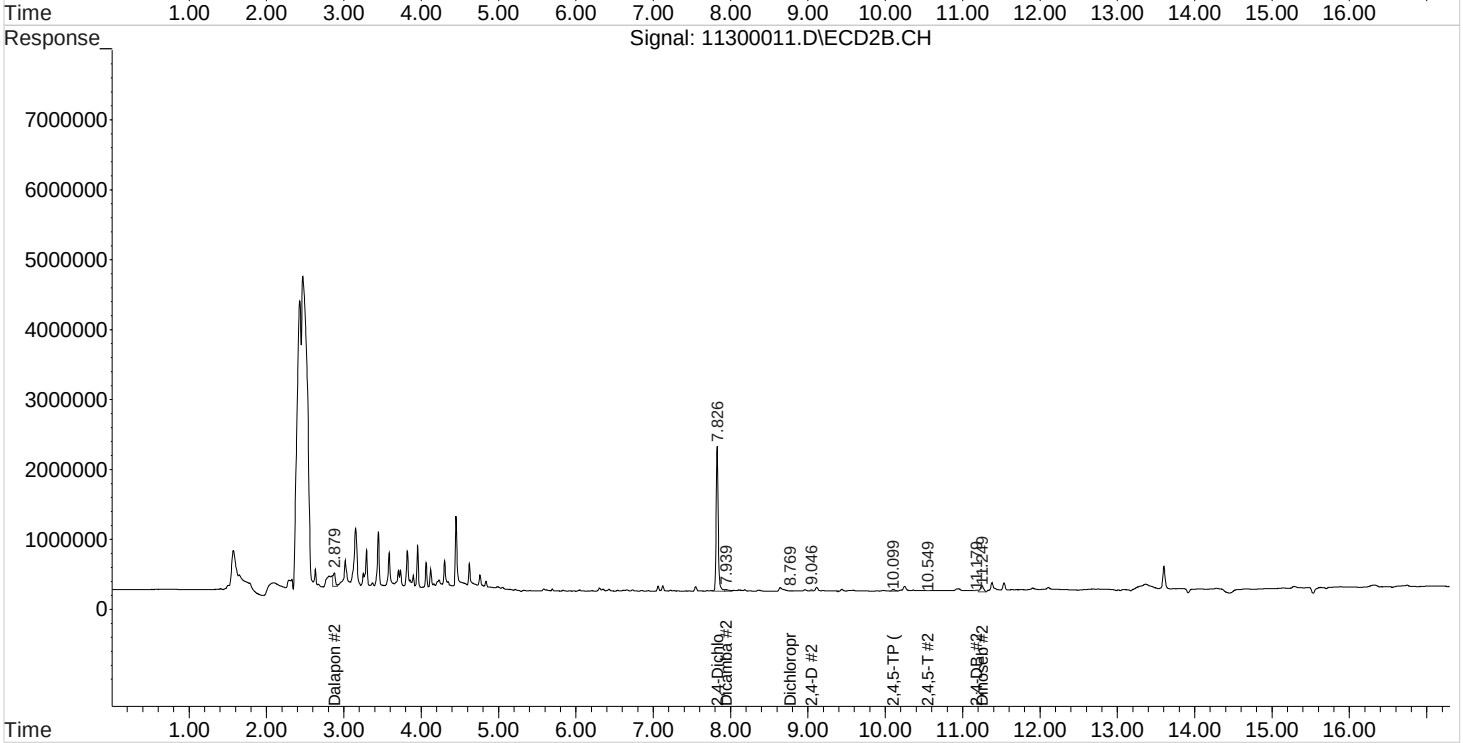
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300011.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 1:36 pm Operator: UA
Sample : K2010413-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:28:30 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 11/30/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300012.D\
Lab ID: K2010413-005
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 13:58:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 11/30/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300012.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 13:58:00	**Vial:**	67
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-005	**Raw Units:**	ppb

Bottle ID:	K2010413-005.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1165577	3686545	64.055	87.157	64	87	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	10.26	10.10 -0.04	8909	43293	0.095	0.213	0.18U	0.40U	2.7 U	Y
2,4-D	9.30 -0.02	9.05 -0.02	12277	31443	0.578	0.614	1.1U	1.1U	8.7 U	Y

Prep Amount:	30.001 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	89.10

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300012.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 1:58 pm Operator: UA
Sample : K2010413-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:03 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.995	7.825	1165577	3686545	64.055	87.157	#
	Target Compounds							
1) m	Dalapon	3.105	2.878	4237	279369	0.175	5.783	#
3) m	Dicamba	8.205	7.918	15787	44434	0.226	0.300	#
4) m	MCPP	8.291	8.108	7015	10757	659.734	N.D.	#
5) m	MCPA	8.598	8.355	1735	44102	29.632	N.D.	#
6) m	Dichloroprop	8.971	8.785	17884	3102	0.959	0.074	#
7) m	2,4-D	9.298	9.048	12277	31443	0.578	0.614	
8) m	2,4,5-TP ...	10.265	10.098	8909	43293	0.095	0.213	#
9) m	2,4,5-T	10.701	10.545	2316	4724	0.028	0.025	
10) m	2,4-DB	11.258	11.178	30264	20766	2.950	0.716	#
11) m	Dinoseb	11.658	11.248f	61347	267892	0.992	1.959	#

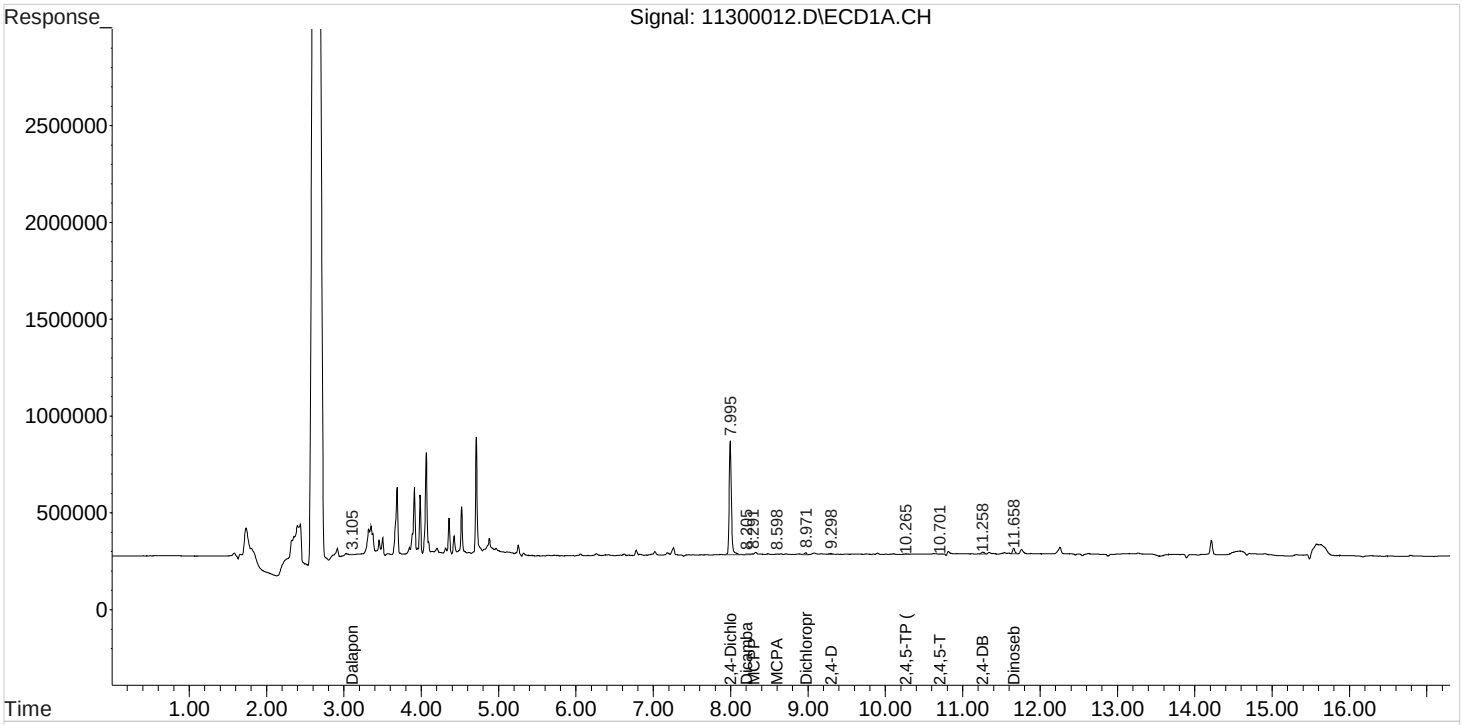
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

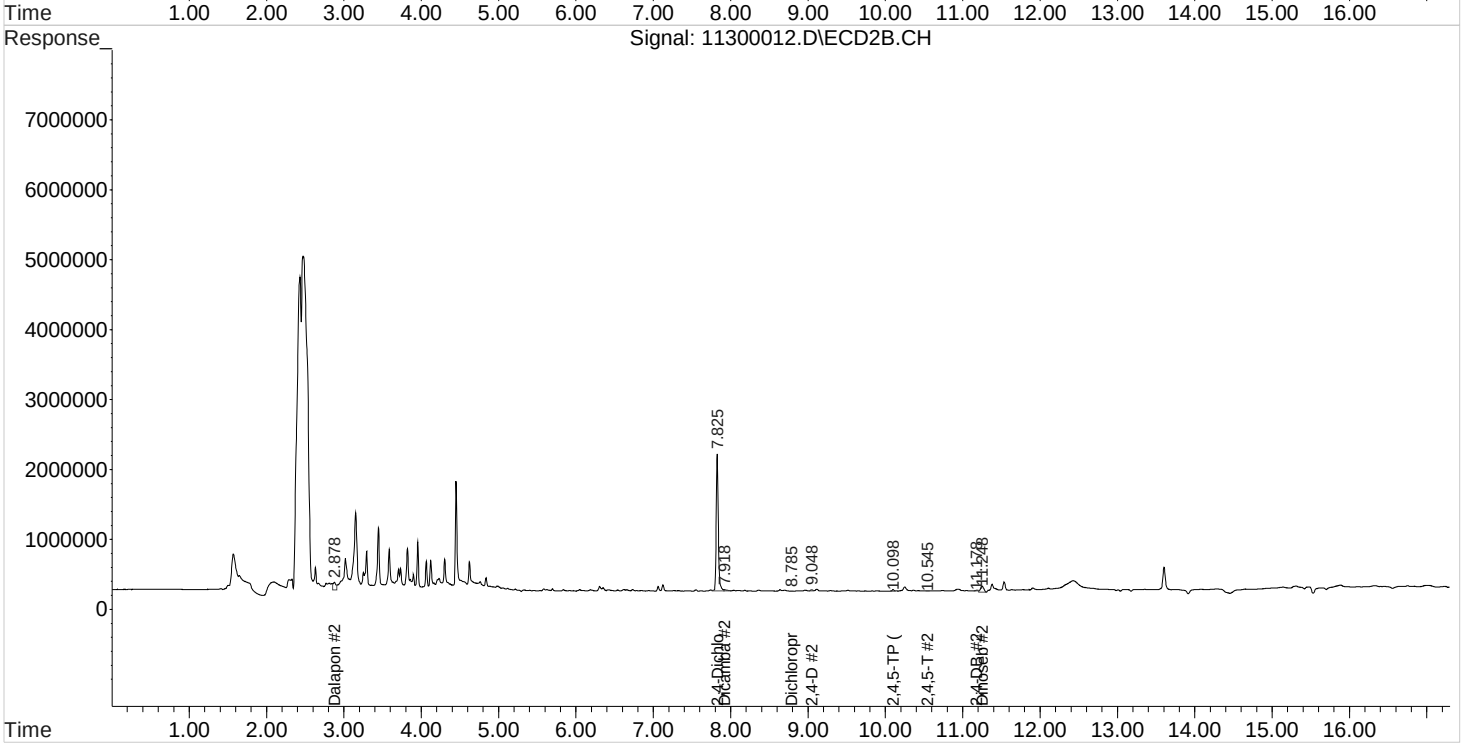
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300012.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 1:58 pm Operator: UA
Sample : K2010413-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:03 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st 11/30/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300013.D\
Lab ID: K2010413-006
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 14:21:00
Batch ID: 705301
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 - ZB-XLB-HT	Dicamba	7.82			CEND
	DCAA	7.82			CEND

Primary Review: _____

Printed: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 11/30/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300013.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 14:21:00	**Vial:**	68
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-006	**Raw Units:**	ppb

Bottle ID:	K2010413-006.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	c	1201939	3734359	66.053	88.287	66	88	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	10.26	10.10	-0.04	6310	50465	0.067	0.249	0.14U	0.53U	3.1 U	Y
2,4-D	9.29 -0.03	9.05	-0.02	8125	26072	0.383	0.509	0.81U	1.1U	9.9 U	Y

Prep Amount:	30.054 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	78.30

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300013.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 2:21 pm Operator: UA
Sample : K2010413-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:06 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.995	7.825	1201939	3734359	66.053	88.287	#
	Target Compounds							
1) m	Dalapon	3.138	2.878	2394	286983	0.099	5.940	#
3) m	Dicamba	8.211	7.825f	11384	3734359	0.163	25.196	#
4) m	MCPP	8.325	8.108	18575	24627	908.495	N.D.	#
5) m	MCPA	8.595	8.358	3916	48870	66.880	N.D.	#
6) m	Dichloroprop	8.971	8.695f	26005	19800	1.395	0.475	#
7) m	2,4-D	9.288	9.048	8125	26072	0.383	0.509	#
8) m	2,4,5-TP ...	10.258	10.098	6310	50465	0.067	0.249	#
9) m	2,4,5-T	10.708	10.545	2530	2562	0.031	0.013	#
10) m	2,4-DB	11.261	11.181	53928	33932	5.256	1.169	#
11) m	Dinoseb	11.658	11.248f	74406	210431	1.203	1.539	#

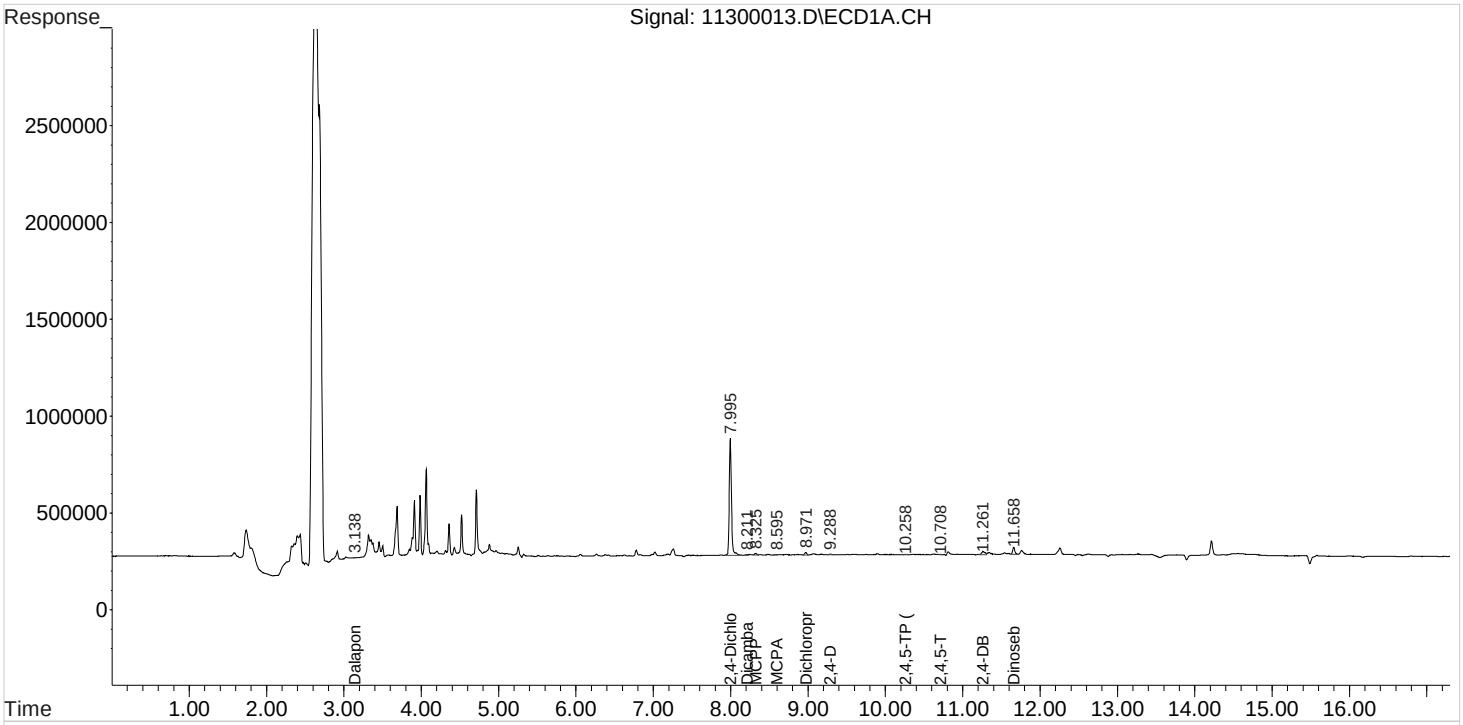
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

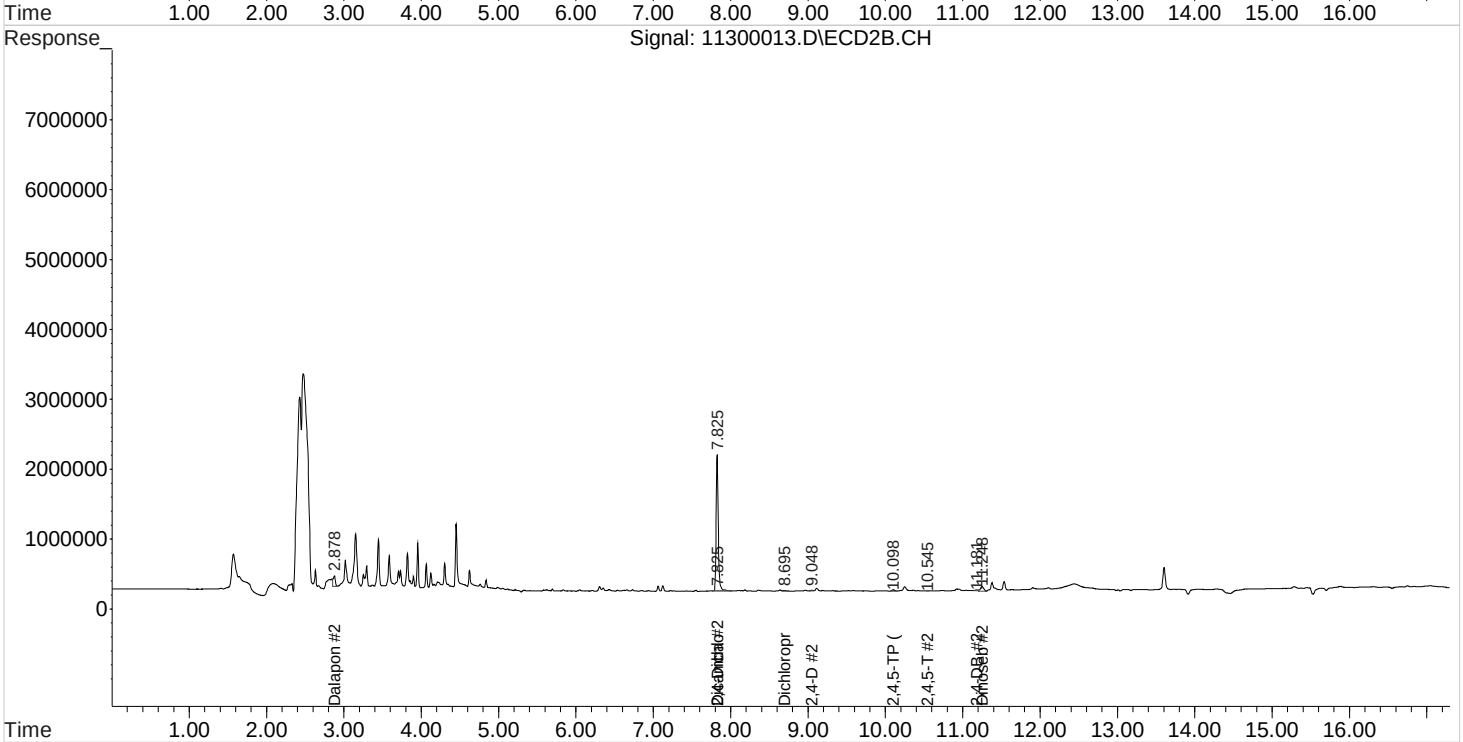
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300013.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 2:21 pm Operator: UA
Sample : K2010413-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:06 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 11/30/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300014.D\
Lab ID: K2010413-007
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 14:44:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 11/30/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300014.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 14:44:00	**Vial:**	69
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-007	**Raw Units:**	ppb

Bottle ID:	K2010413-007.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1186916	3699236	65.227	87.457	65	87	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	10.26	10.14	6458	13639	0.069	0.067	0.15U	0.15U	3.2 U	Y
2,4-D	9.28 -0.04	9.04 -0.03	4529	23325	0.213	0.456	0.47U	1.0U	11 U	Y

Prep Amount:	30.076 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	75.40

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300014.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 2:44 pm Operator: UA
Sample : K2010413-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:09 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.994	7.824	1186916	3699236	65.227	87.457	#
	Target Compounds							
1) m	Dalapon	3.141	2.878	1396	55914	0.058	1.157	#
3) m	Dicamba	8.217	7.924	19110	78604	0.274	0.530	#
4) m	MCPP	8.324	8.111	18387	25029	904.450	N.D.	#
5) m	MCPA	8.604	8.358	1921	39449	32.808	N.D.	#
6) m	Dichloroprop	8.967	8.688f	22200	14724	1.190	0.353	#
7) m	2,4-D	9.284	9.044	4529	23325	0.213	0.456	#
8) m	2,4,5-TP ...	10.264	10.138	6458	13639	0.069	0.067	
9) m	2,4,5-T	10.714	10.544	4598	7381	0.056	0.039	#
10) m	2,4-DB	11.261	11.181	32795	13674	3.197	0.471	#
11) m	Dinoseb	11.657	11.331	57906	61633	0.936	0.451	#

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

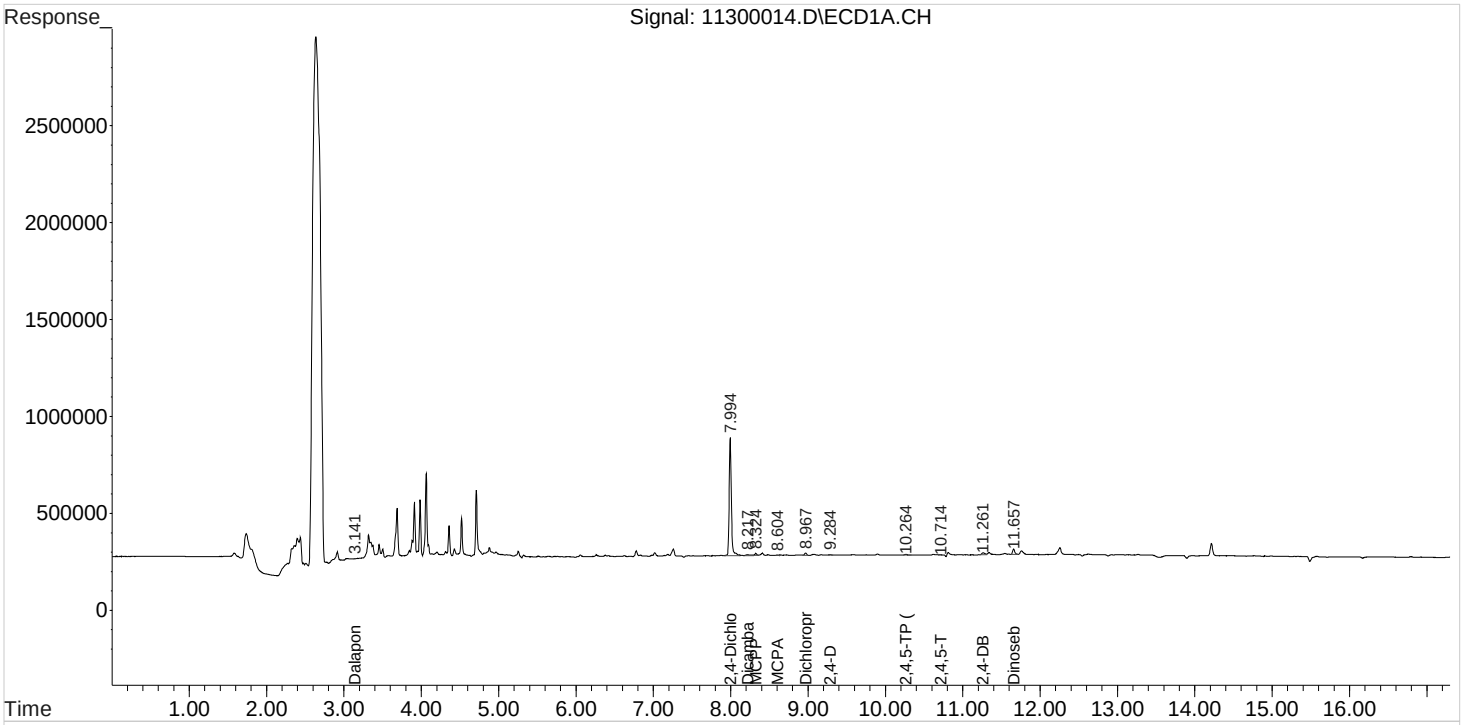
Quantitation Report (Not Reviewed)

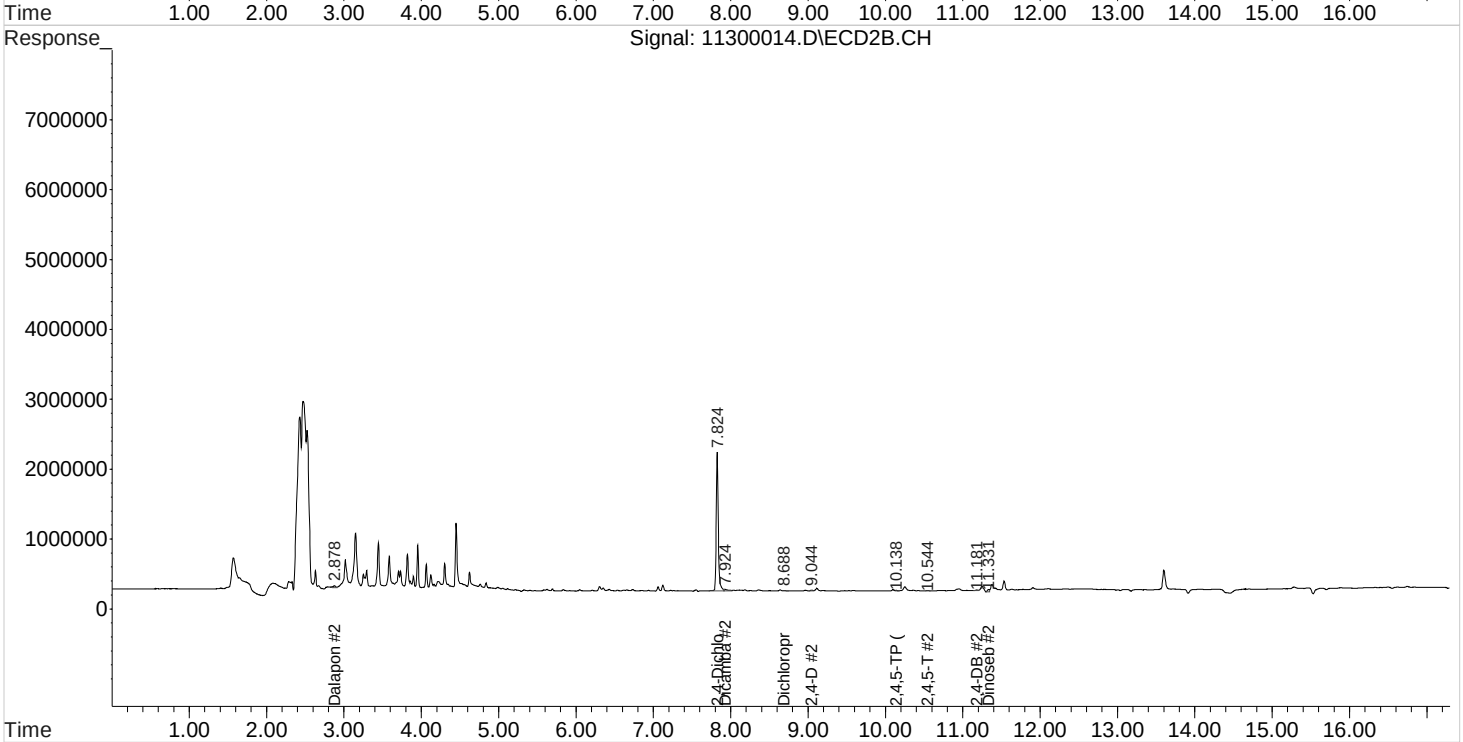
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300014.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 2:44 pm Operator: UA
Sample : K2010413-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:09 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st STM 11/30/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300015.D\
Lab ID: K2010413-008
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 15:07:00
Batch ID: 705301
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 - ZB-XLB-HT	Dicamba	7.83			CEND
	DCAA	7.83			CEND

Primary Review: _____

Printed: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 11/30/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300015.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 15:07:00	**Vial:**	70
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-008	**Raw Units:**	ppb

Bottle ID:	K2010413-008.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 +0.01	7.83 +0.0 c	1226641	3989972	67.410	94.330	67	94	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	10.26	10.10 -0.04	6935	68850	0.074	0.339	0.16U	0.74U	3.2 U	Y
2,4-D	9.28 -0.04	9.05 -0.02	7035	32122	0.331	0.627	0.72U	1.4U	11 U	Y

Prep Amount:	30.195 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	76.00

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

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

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

Printed: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300015.D Vial: 12
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 3:07 pm Operator: UA
Sample : K2010413-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:12 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.995	7.826	1226641	3989972	67.410	94.330	#
		Target Compounds							
1)	m	Dalapon	3.135	2.879	1384	147025	0.057	3.043	#
3)	m	Dicamba	8.219	7.826f	9033	3989972	0.129	26.921	#
4)	m	MCPP	8.325	8.109	10216	37735	728.617	N.D.	#
5)	m	MCPA	8.602	8.359	3067	44076	52.380	N.D.	#
6)	m	Dichloroprop	8.969	8.689f	23633	8819	1.267	0.211	#
7)	m	2,4-D	9.282	9.046	7035	32122	0.331	0.627	#
8)	m	2,4,5-TP ...	10.262	10.099	6935	68850	0.074	0.339	#
9)	m	2,4,5-T	10.705	10.542	3307	4055	0.040	0.021	#
10)	m	2,4-DB	11.262	11.182	37863	14944	3.691	0.515	#
11)	m	Dinoseb	11.659	11.332	60550	46950	0.979	0.343	#

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

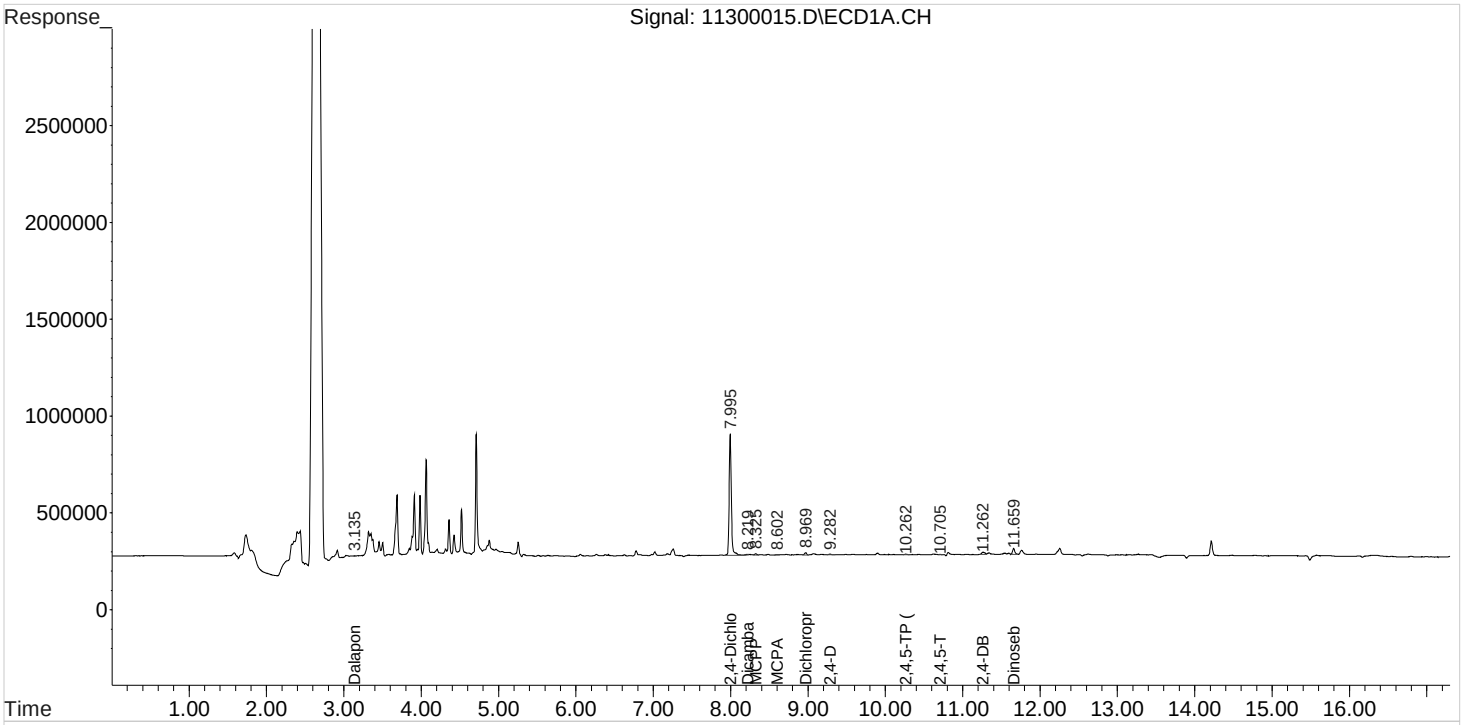
Quantitation Report (Not Reviewed)

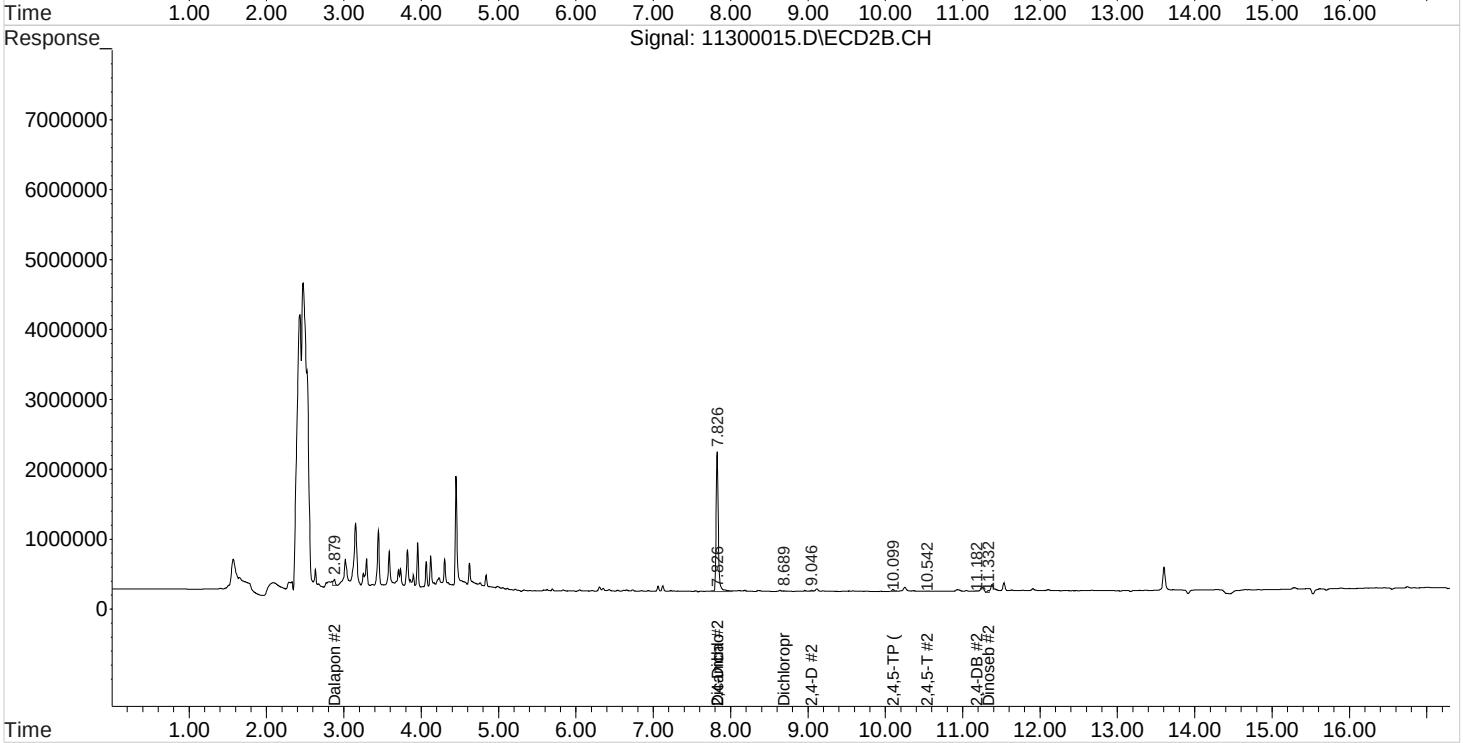
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300015.D Vial: 12
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 3:07 pm Operator: UA
Sample : K2010413-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:12 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300018.D\
Lab ID: K2010413-009
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 16:15:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300018.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 16:15:00	**Vial:**	71
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-009	**Raw Units:**	ppb

Bottle ID:	K2010413-009.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82 -0.01	1310802	4224141	72.036	99.867	72	100	72	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	10.26	10.10 -0.04	5612	309823	0.060	1.526	0.15U	3.9J	3.7 U	Y
2,4-D	9.34 +0.02	9.04 -0.03	7619	57149	0.359	1.116	0.92U	2.9U	12 U	Y

Prep Amount:	30.026 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	65.00

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st SM 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300018.D Vial: 13
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 4:15 pm Operator: UA
Sample : K2010413-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.995	7.825	1310802	4224141	72.036	99.867	#
		Target Compounds							
1)	m	Dalapon	3.135	2.878	20208	394441	0.833	8.164	#
3)	m	Dicamba	8.198	7.942	16832	103020	0.241	0.695	#
4)	m	MCPP	8.318	8.108	48515	32605	1552.779	N.D.	#
5)	m	MCPA	8.588	8.362	12081	72872	206.328	N.D.	#
6)	m	Dichloroprop	8.968	8.785	38146	15456	2.046	0.371	#
7)	m	2,4-D	9.341	9.042	7619	57149	0.359	1.116	#
8)	m	2,4,5-TP ...	10.261	10.098	5612	309823	0.060	1.526	#
9)	m	2,4,5-T	10.698	10.545	32824	20339	0.398	0.106	#
10)	m	2,4-DB	11.275	11.182	7569	64314	0.738	2.217	#
11)	m	Dinoseb	11.658	11.378f	99108	877805	1.602	6.419	#

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

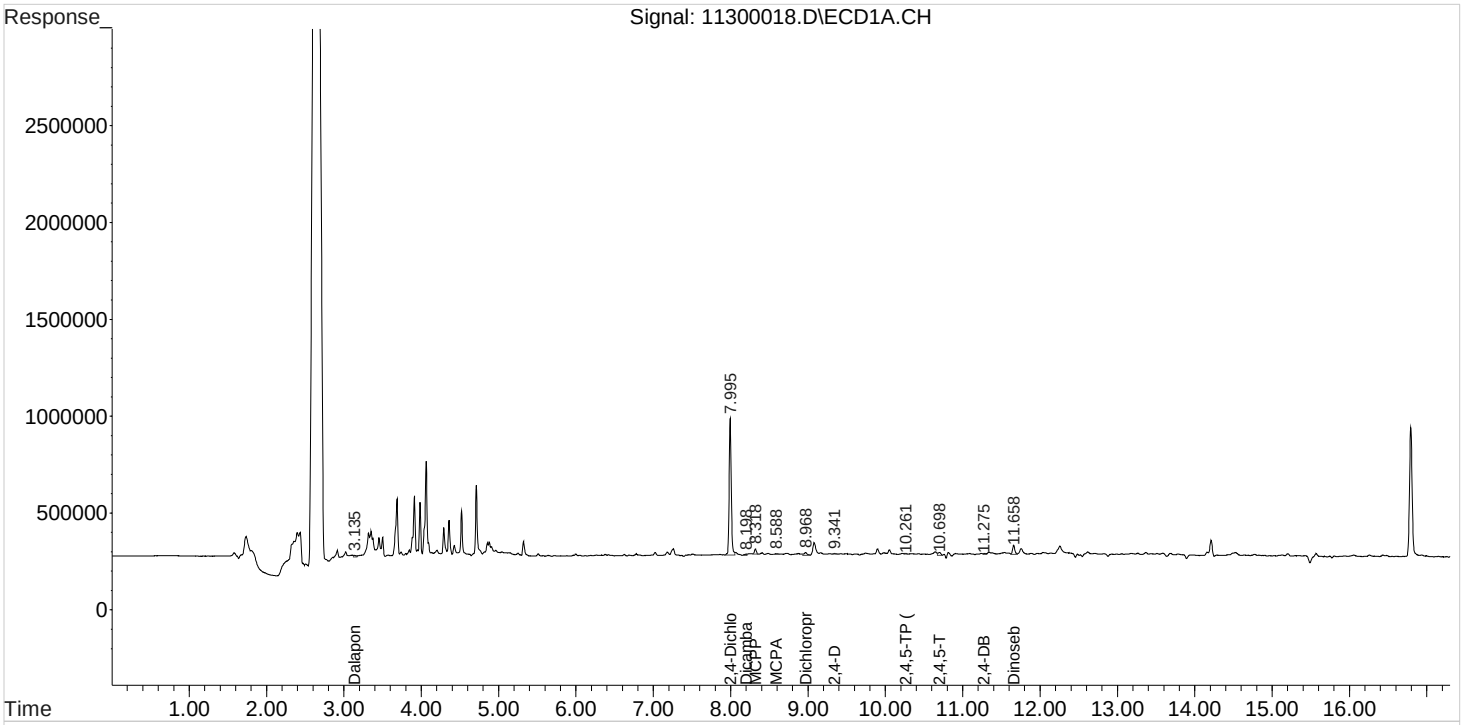
Quantitation Report (Not Reviewed)

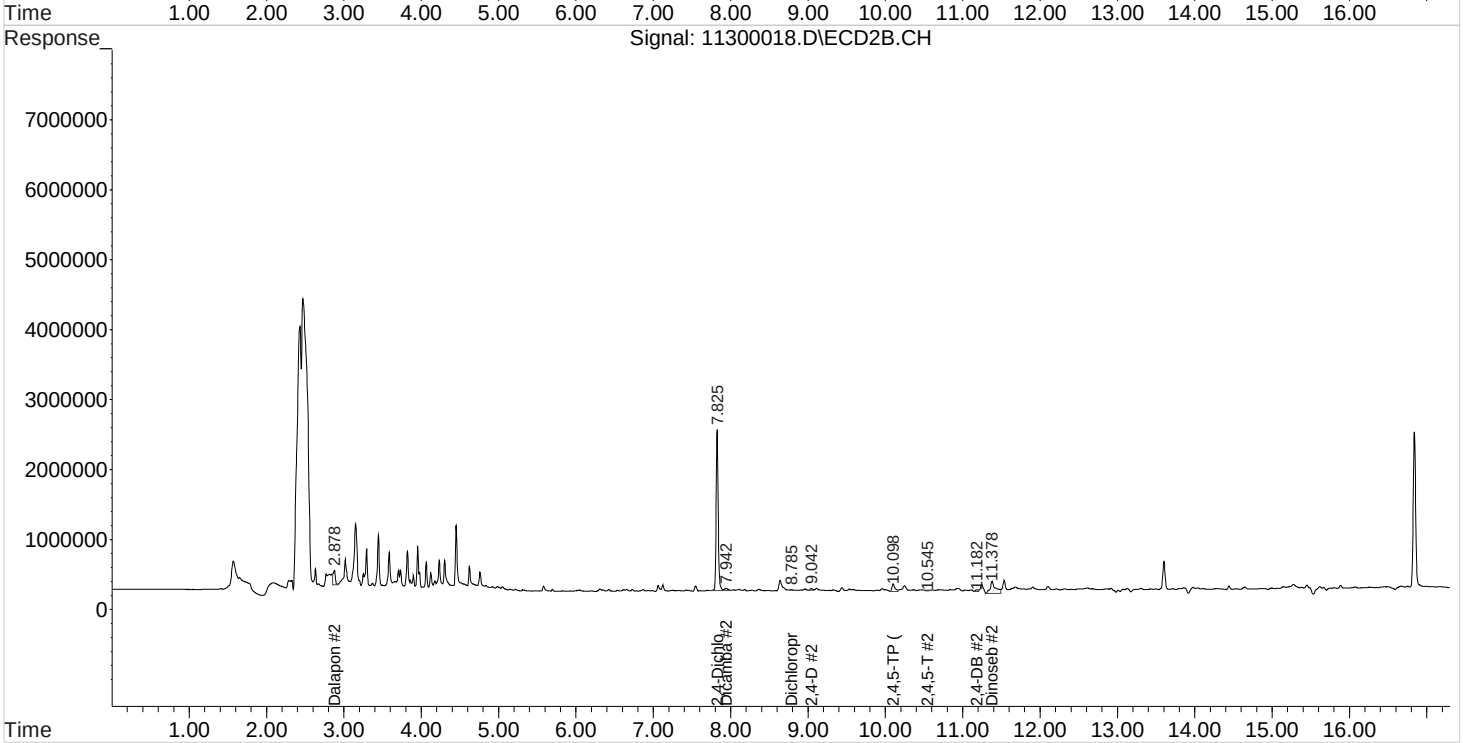
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300018.D Vial: 13
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 4:15 pm Operator: UA
Sample : K2010413-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300019.D\
Lab ID: K2010413-010
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 16:38:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300019.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 16:38:00	**Vial:**	72
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-010	**Raw Units:**	ppb

Bottle ID:	K2010413-010.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82 -0.01	1247704	3979682	68.568	94.087	69	94	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	10.26	10.10 -0.04	6122	77139	0.065	0.380	0.15U	0.85U	3.3 U	Y
2,4-D	9.28 -0.04	9.04 -0.03	11020	75011	0.519	1.465	1.2U	3.3U	11 U	Y

Prep Amount:	30.150 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	74.10

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300019.D Vial: 14
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 4:38 pm Operator: UA
Sample : K2010413-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:24 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.993	7.823	1247704	3979682	68.568	94.087	#
		Target Compounds							
1)	m	Dalapon	3.136	2.880	2017	141555	0.083	2.930	#
3)	m	Dicamba	8.223	7.943	8314	91858	0.119	0.620	#
4)	m	MCPP	8.323	8.106	22699	39325	997.240	N.D.	#
5)	m	MCPA	8.613	8.356	2978	45911	50.860	N.D.	#
6)	m	Dichloroprop	8.969	0.000	28927	0	1.551	N.D.	#
7)	m	2,4-D	9.283	9.043	11020	75011	0.519	1.465	#
8)	m	2,4,5-TP ...	10.256	10.096	6122	77139	0.065	0.380	#
9)	m	2,4,5-T	10.699	10.546	7828	8438	0.095	0.044	#
10)	m	2,4-DB	11.253	11.176	18326	16206	1.786	0.559	#
11)	m	Dinoseb	11.656	11.376f	78899	550985	1.275	4.029	#

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

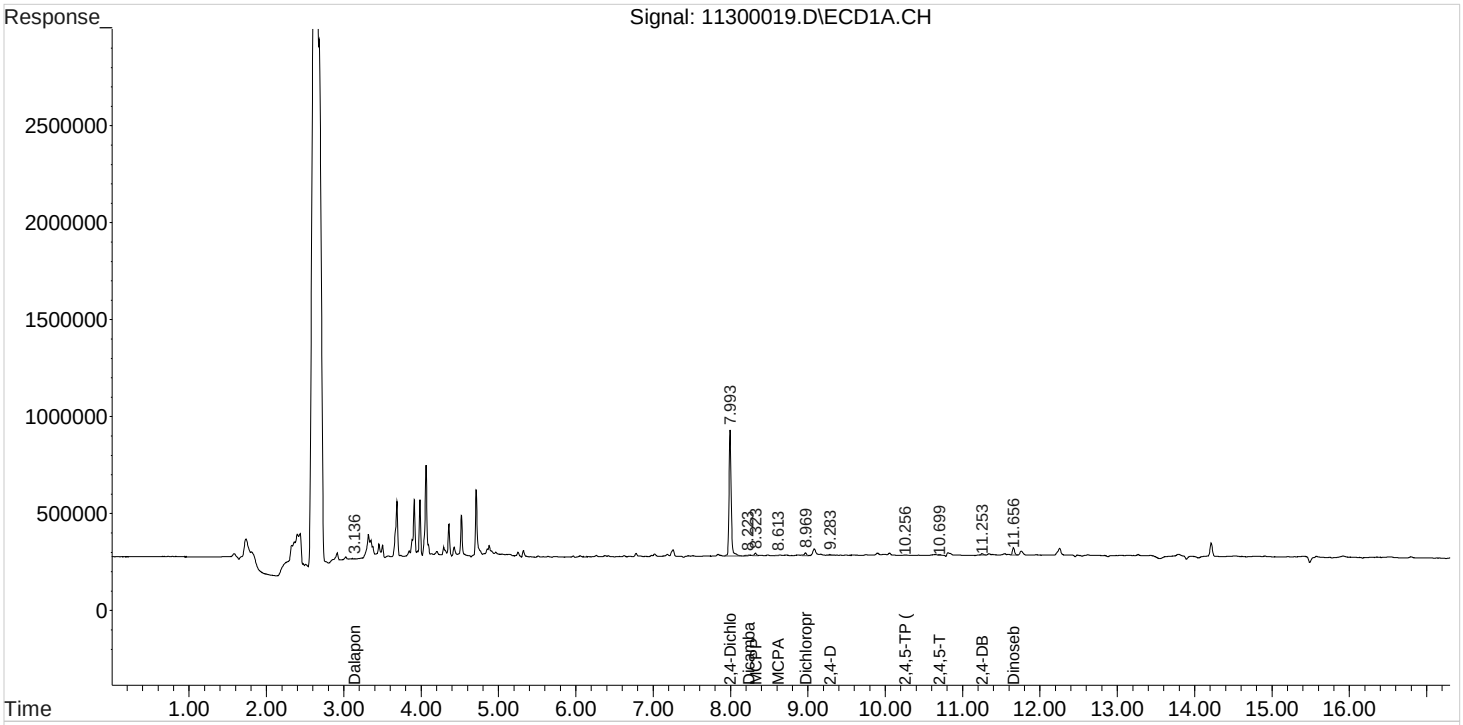
Quantitation Report (Not Reviewed)

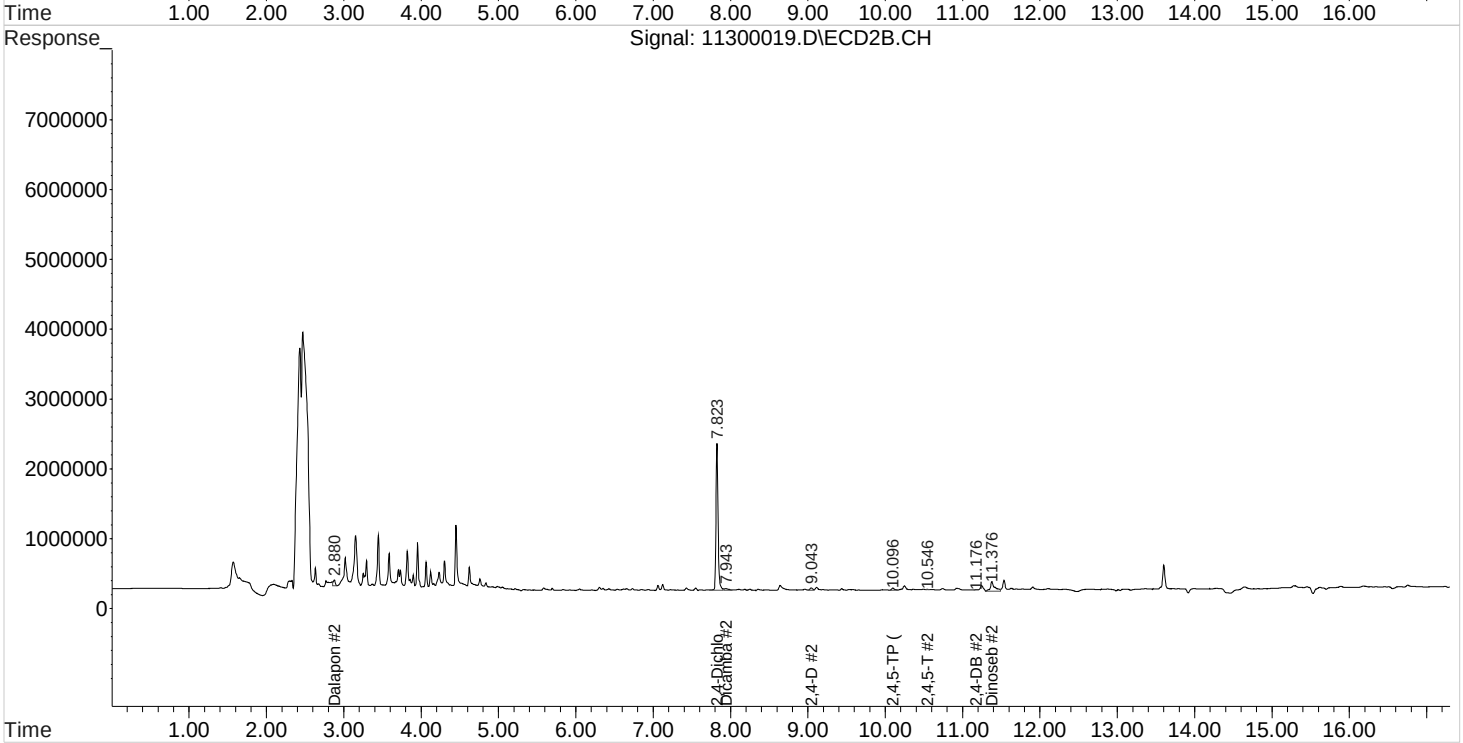
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300019.D Vial: 14
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 4:38 pm Operator: UA
Sample : K2010413-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:24 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st STM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300020.D\
Lab ID: K2010413-011
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 17:01:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300020.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 17:01:00	**Vial:**	73
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-011	**Raw Units:**	ppb

Bottle ID:	K2010413-011.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 +0.01	7.83	1105177	3566654	60.735	84.322	61	84	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	10.27 +0.01	10.13 -0.01	15545	18031	0.166	0.089	0.36U	0.19U	3.2 U	Y
2,4-D	9.36 +0.04	9.04 -0.03	1677	58970	0.079	1.152	0.17U	2.5U	10 U	Y

Prep Amount:	30.236 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	76.80

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300020.D Vial: 15
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 5:01 pm Operator: UA
Sample : K2010413-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:27 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.996	7.826	1105177	3566654	60.735	84.322	#
		Target Compounds							
1)	m	Dalapon	3.136	2.879	3030	358042	0.125	7.411	#
3)	m	Dicamba	8.209	7.943	6829	142891	0.098	0.964	#
4)	m	MCPP	8.322	8.109	59495	86233	1789.060	N.D.	#
5)	m	MCPA	8.596	8.363	4618	63288	78.869	N.D.	#
6)	m	Dichloroprop	8.969	8.779	21034	8619	1.128	0.207	#
7)	m	2,4-D	9.362	9.043	1677	58970	0.079	1.152	#
8)	m	2,4,5-TP ...	10.266	10.126	15545	18031	0.166	0.089	#
9)	m	2,4,5-T	10.696	10.543	11053	6365	0.134	0.033	#
10)	m	2,4-DB	11.259	11.183	32610	11326	3.179	0.390	#
11)	m	Dinoseb	11.659	11.379f	76793	389034	1.241	2.845	#

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

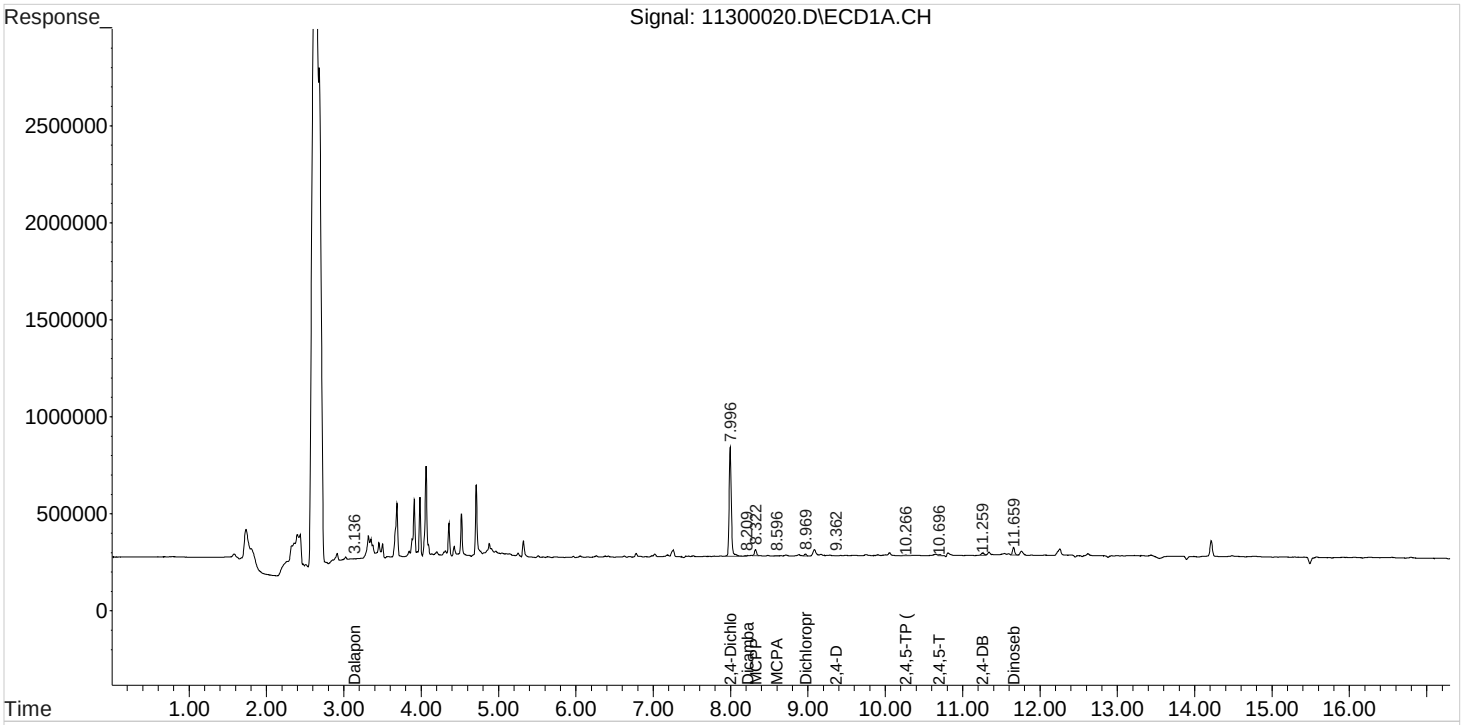
Quantitation Report (Not Reviewed)

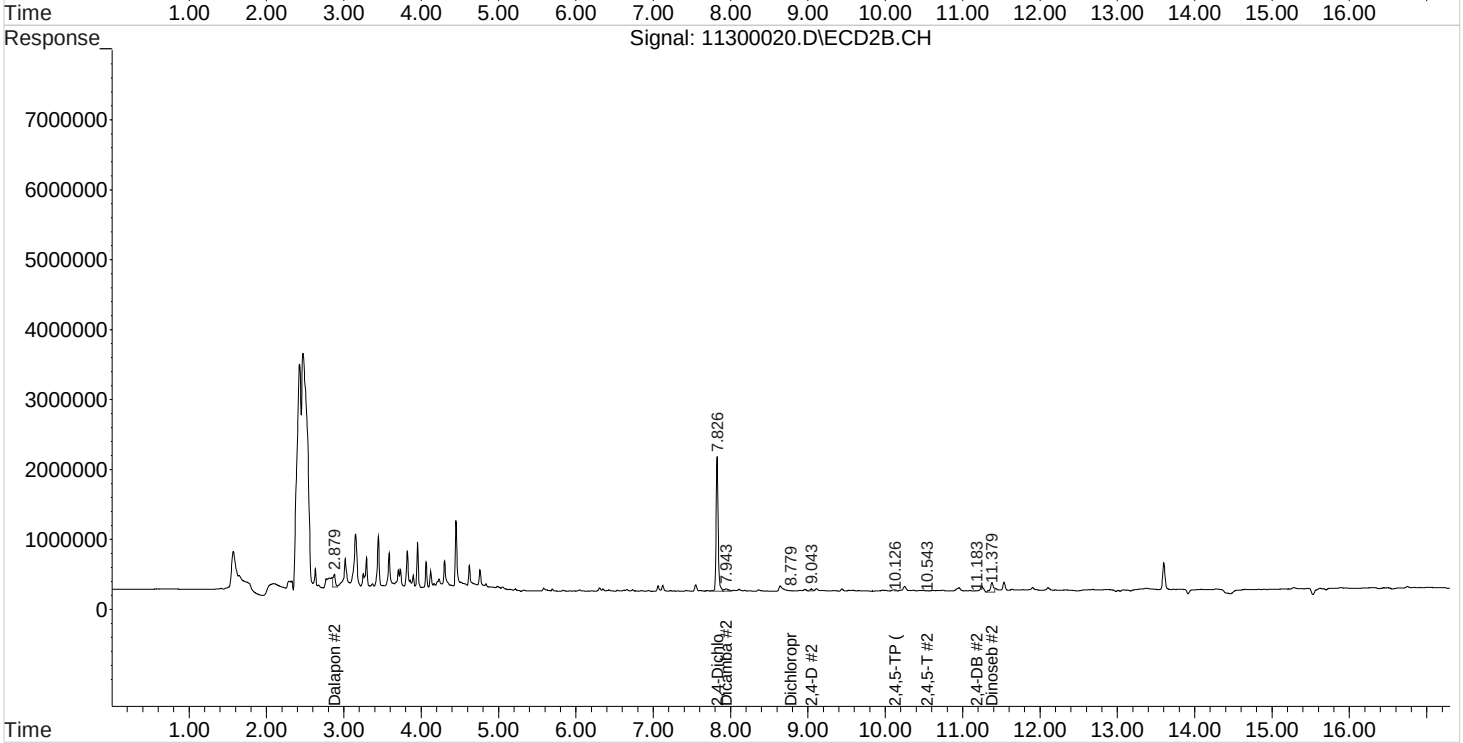
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300020.D Vial: 15
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 5:01 pm Operator: UA
Sample : K2010413-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:27 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300021.D\
Lab ID: K2010413-012
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 17:24:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300021.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 17:24:00	**Vial:**	74
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-012	**Raw Units:**	ppb

Bottle ID:	K2010413-012.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82 -0.01	1212263	3735225	66.620	88.308	67	88	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	10.26	10.10 -0.04	4900	41599	0.052	0.205	0.12U	0.46U	3.3 U	Y
2,4-D	9.28 -0.04	9.04 -0.03	4419	31575	0.208	0.617	0.46U	1.4U	11 U	Y

Prep Amount:	30.090 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	74.70

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st SM 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300021.D Vial: 16
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 5:24 pm Operator: UA
Sample : K2010413-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:30 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.994	7.824	1212263	3735225	66.620	88.308	#
		Target Compounds							
1)	m	Dalapon	3.141	2.877	1383	359312	0.057	7.437	#
3)	m	Dicamba	8.204	7.954	9000	72930	0.129	0.492	#
4)	m	MCPP	8.324	8.107	20433	21179	948.478	N.D.	#
5)	m	MCPA	8.554	8.364	4434	68849	75.727	N.D.	#
6)	m	Dichloroprop	8.971	8.684f	24816	28525	1.331	0.684	#
7)	m	2,4-D	9.277	9.044	4419	31575	0.208	0.617	#
8)	m	2,4,5-TP ...	10.264	10.097	4900	41599	0.052	0.205	#
9)	m	2,4,5-T	10.757f	10.624f	10492	5953	0.127	0.031	#
10)	m	2,4-DB	11.261	11.181	38754	17241	3.777	0.594	#
11)	m	Dinoseb	11.657	11.377f	74667	524058	1.207	3.832	#

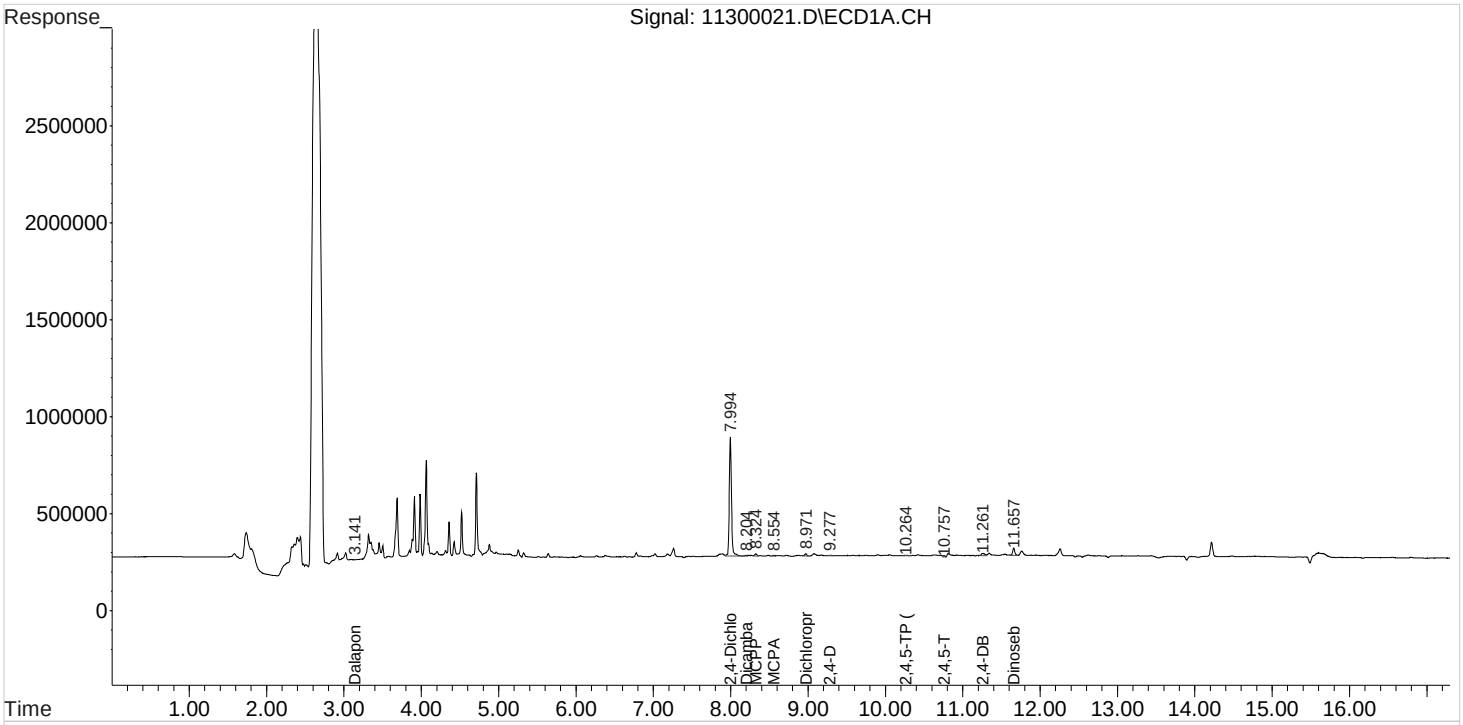
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

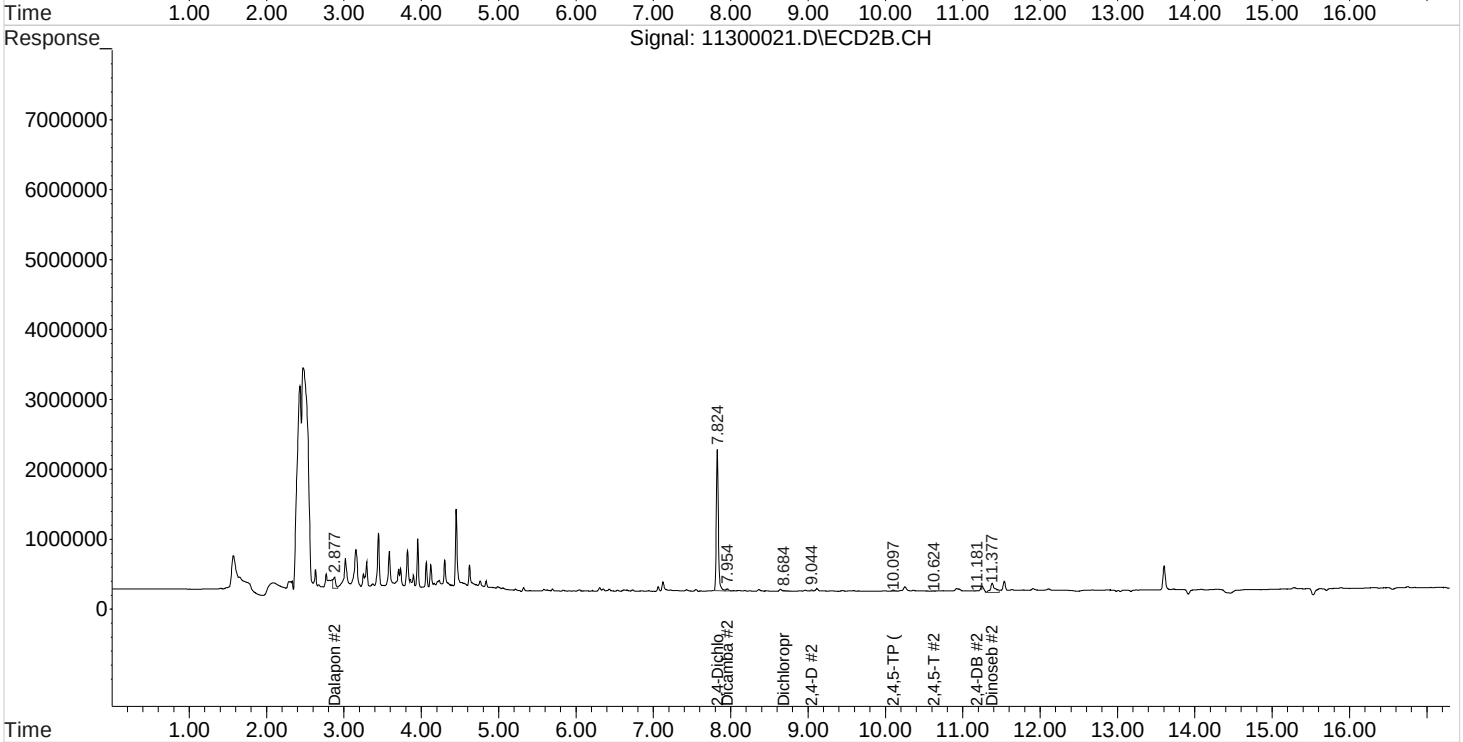
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300021.D Vial: 16
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 5:24 pm Operator: UA
Sample : K2010413-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:30 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300022.D\
Lab ID: K2010413-013
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 17:46:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300022.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 17:46:00	**Vial:**	75
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-013	**Raw Units:**	ppb

Bottle ID:	K2010413-013.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83	1159097	3600324	63.699	85.118	64	85	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	10.27 +0.01	10.10 -0.04	8046	45677	0.086	0.225	0.17U	0.45U	2.9 U	Y
2,4-D	9.30 -0.02	9.05 -0.02	10223	31918	0.481	0.623	0.96U	1.2U	9.3 U	Y

Prep Amount:	30.041 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	83.30

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300022.D Vial: 17
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 5:46 pm Operator: UA
Sample : K2010413-013 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:33 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.992	7.826	1159097	3600324	63.699	85.118	#
	Target Compounds							
1) m	Dalapon	3.132	2.876	13398	225603	0.552	4.670	#
3) m	Dicamba	8.205	7.969	14155	7453	0.203	0.050	#
4) m	MCPP	8.282	8.109	7449	18116	669.073	N.D.	#
5) m	MCPA	8.599	8.359	2645	45911	45.173	N.D.	#
6) m	Dichloroprop	8.965	8.699f	27182	27788	1.458	0.666	#
7) m	2,4-D	9.295	9.049	10223	31918	0.481	0.623	#
8) m	2,4,5-TP ...	10.265	10.096	8046	45677	0.086	0.225	#
9) m	2,4,5-T	10.702	10.542	1732	2568	0.021	0.013	#
10) m	2,4-DB	11.269	11.179	64457	14007	6.283	0.483	#
11) m	Dinoseb	11.655	11.249f	69169	256358	1.118	1.875	#

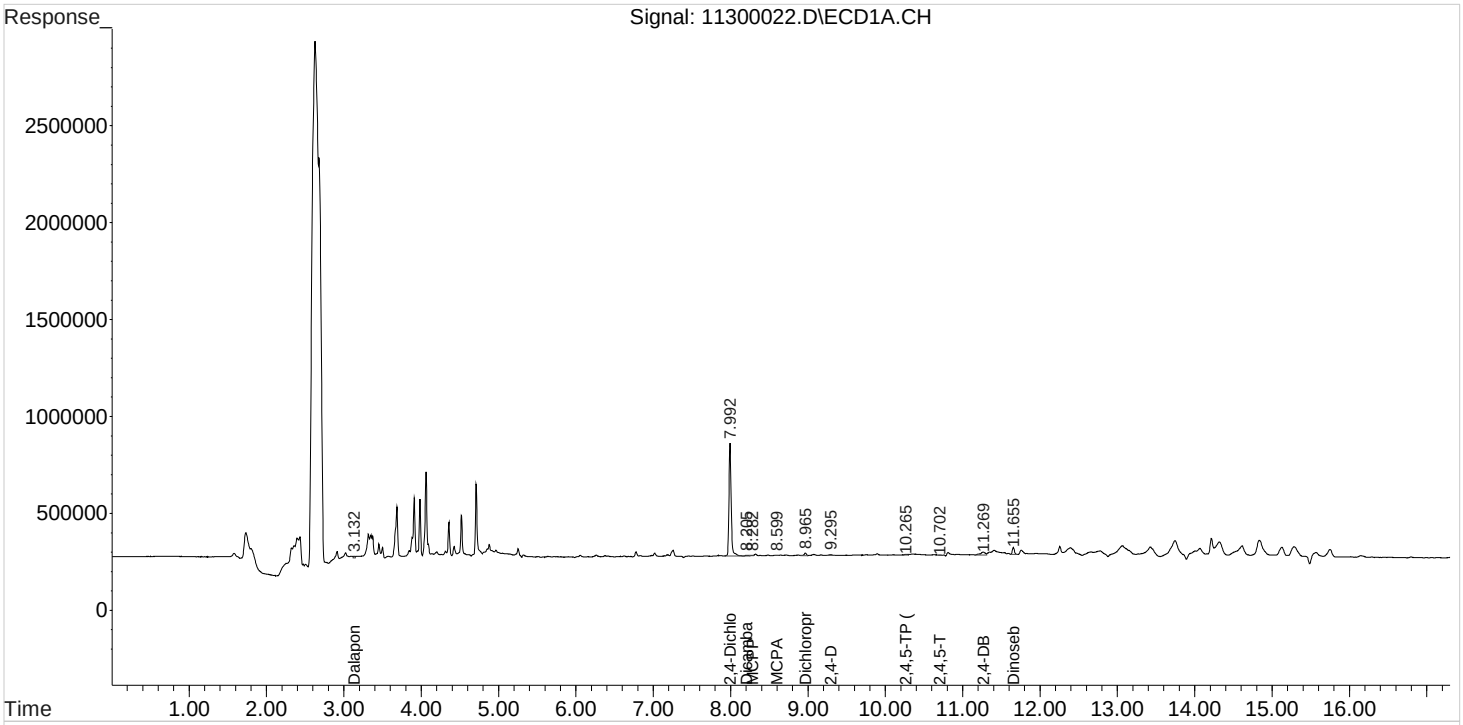
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

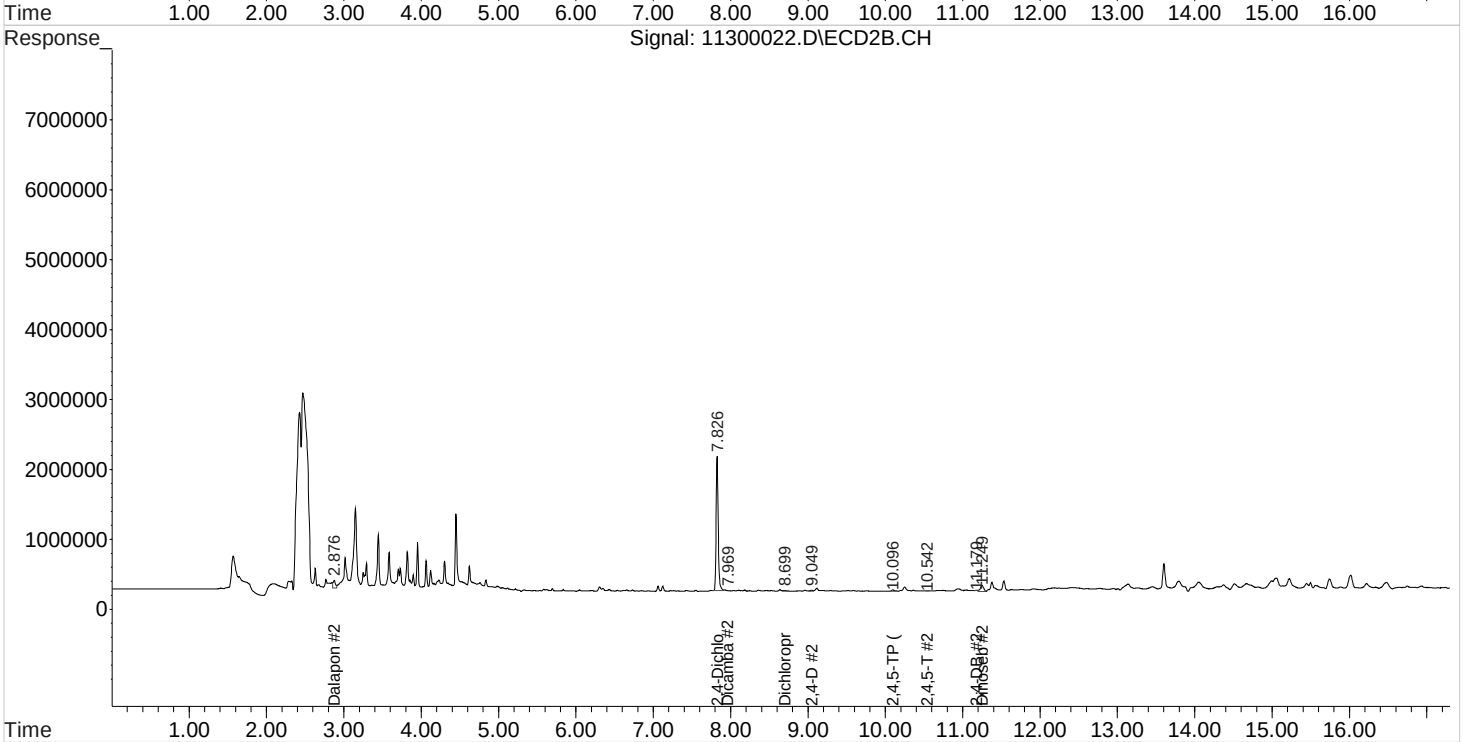
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300022.D Vial: 17
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 5:46 pm Operator: UA
Sample : K2010413-013 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:33 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300023.D\
Lab ID: K2010413-014
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 18:09:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300023.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 18:09:00	**Vial:**	76
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-014	**Raw Units:**	ppb

Bottle ID:	K2010413-014.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83	1222599	3810422	67.188	90.085	67	90	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	10.26	10.10 -0.04	6486	43433	0.069	0.214	0.15U	0.48U	3.3 U	Y
2,4-D	9.29 -0.03	9.05 -0.02	7857	22502	0.370	0.440	0.82U	0.98U	11 U	Y

Prep Amount:	30.227 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	74.30

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300023.D Vial: 18
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 6:09 pm Operator: UA
Sample : K2010413-014 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:26 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.992	7.825	1222599	3810422	67.188	90.085	#
	Target Compounds							
1) m	Dalapon	3.135	2.878	1242	143941	0.051	2.979	#
3) m	Dicamba	8.208	7.918	7516	18158	0.108	0.123	
4) m	MCPP	8.322	8.108	15178	7671	835.395	N.D.	#
5) m	MCPA	8.558	8.358	1875	41610	32.023	N.D.	#
6) m	Dichloroprop	8.968	8.778	27576	2999	1.479	0.072	#
7) m	2,4-D	9.288	9.045	7857	22502	0.370	0.440	
8) m	2,4,5-TP ...	10.262	10.098	6486	43433	0.069	0.214	#
9) m	2,4,5-T	10.708	10.538	2798	3086	0.034	0.016	#
10) m	2,4-DB	11.265	11.182	43685	12039	4.258	0.415	#
11) m	Dinoseb	11.655	11.248f	60702	253458	0.981	1.853	#

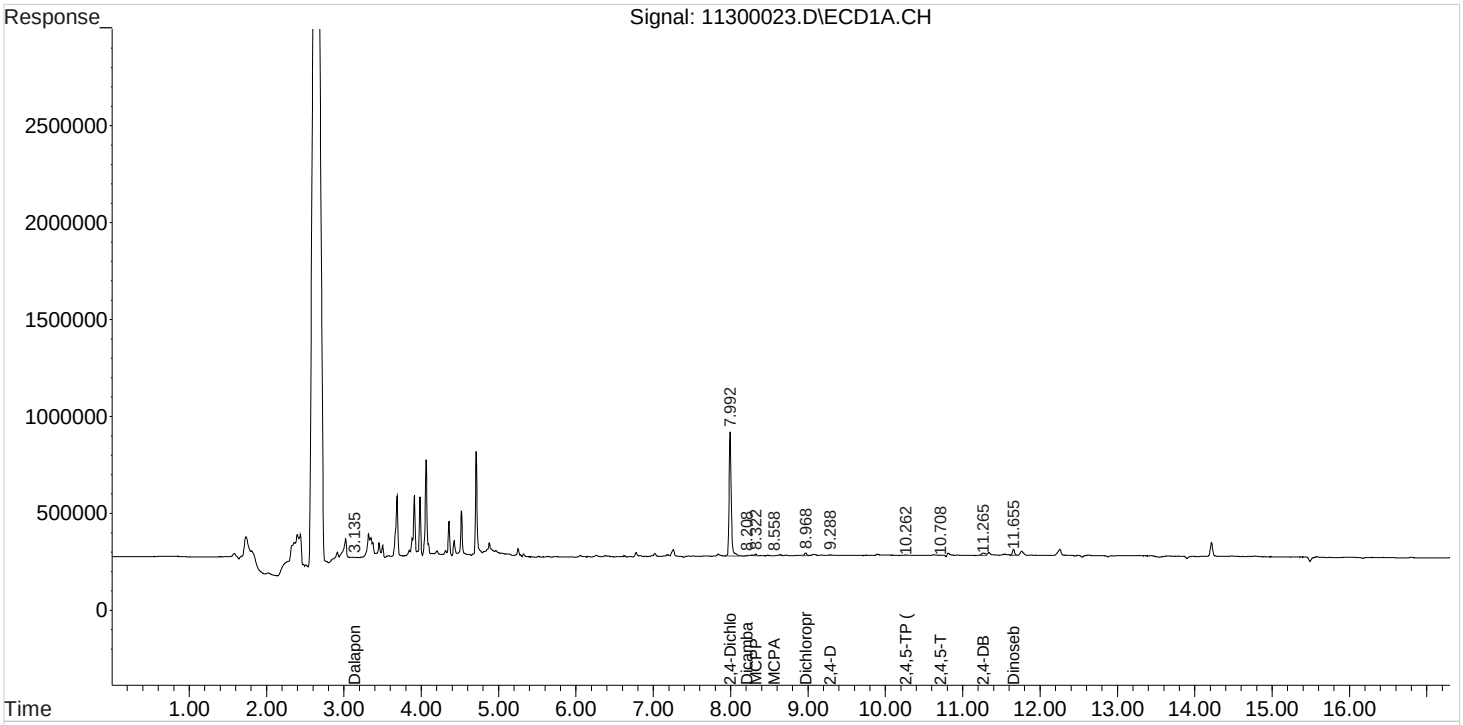
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

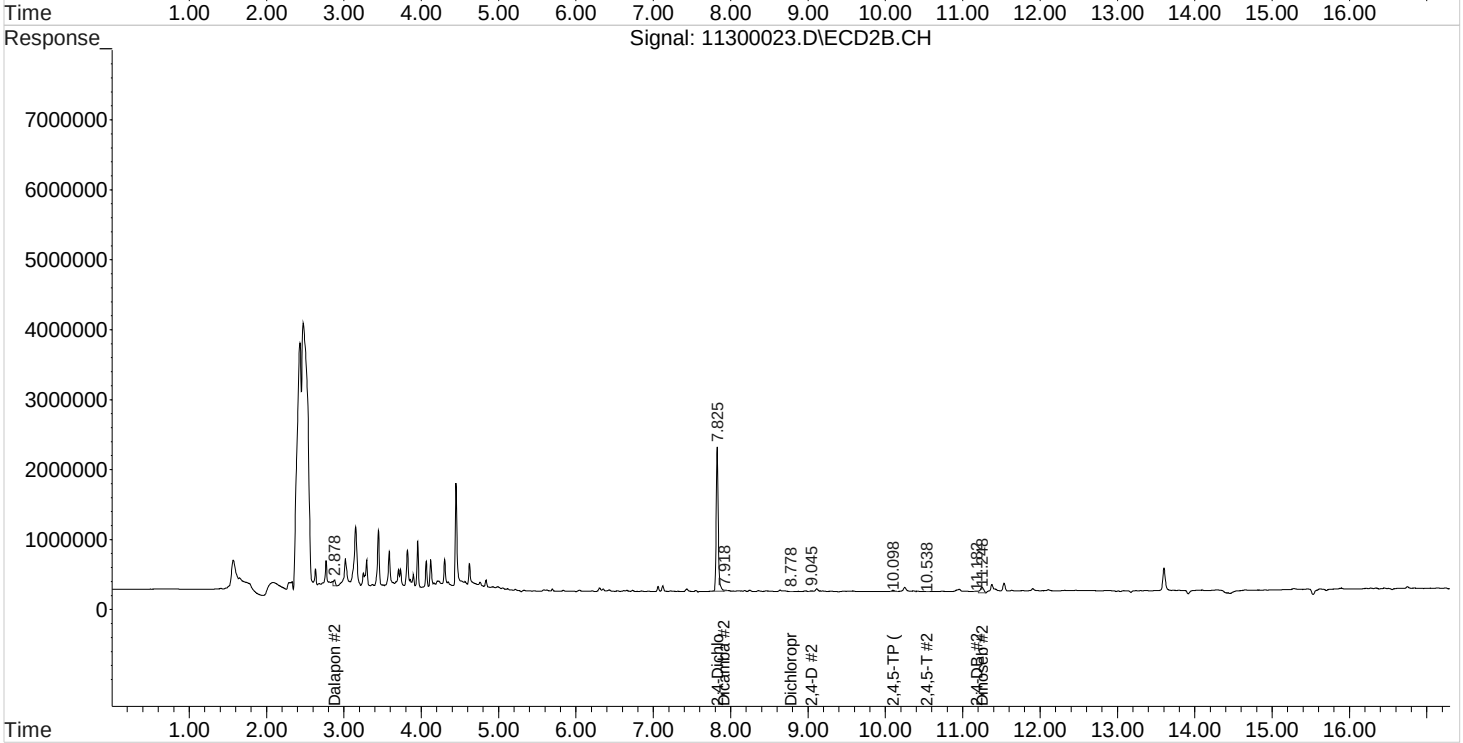
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300023.D Vial: 18
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 6:09 pm Operator: UA
Sample : K2010413-014 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:26 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st 12/01/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300024.D\
Lab ID: K2010413-015
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 18:32:00
Batch ID: 705301
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 - ZB-XLB-HT	Dicamba	7.83			CEND
	DCAA	7.83			CEND

Primary Review: _____

Printed: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300024.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 18:32:00	**Vial:**	77
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-015	**Raw Units:**	ppb

Bottle ID:	K2010413-015.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83	c	1260569	4094503	69.275	96.802	69	97	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	10.27 +0.01	10.14	5702	12029	0.061	0.059	0.12U	0.11U	2.8 U	Y
2,4-D	9.30 -0.02	9.05 -0.02	12582	41302	0.592	0.807	1.1U	1.5U	8.9 U	Y

Prep Amount:	30.033 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	86.80

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300024.D Vial: 19
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 6:32 pm Operator: UA
Sample : K2010413-015 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:29 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.993	7.826	1260569	4094503	69.275	96.802	#
	Target Compounds							
1) m	Dalapon	3.136	2.876	150832	538312	6.218	11.142	#
3) m	Dicamba	8.216	7.826f	6622	4094503	0.095	27.626	#
4) m	MCPP	8.283	8.113	2557	52934	563.801	N.D.	#
5) m	MCPA	8.573	8.356	1946	64542	33.235	N.D.	#
6) m	Dichloroprop	8.969	8.703	25190	26633	1.351	0.638	#
7) m	2,4-D	9.296	9.050	12582	41302	0.592	0.807	#
8) m	2,4,5-TP ...	10.269	10.136	5702	12029	0.061	0.059	
9) m	2,4,5-T	10.706	10.543	3507	14631	0.043	0.076	#
10) m	2,4-DB	11.266	11.180	35130	15569	3.424	0.537	#
11) m	Dinoseb	11.659	11.336	48926	47744	0.791	0.349	#

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

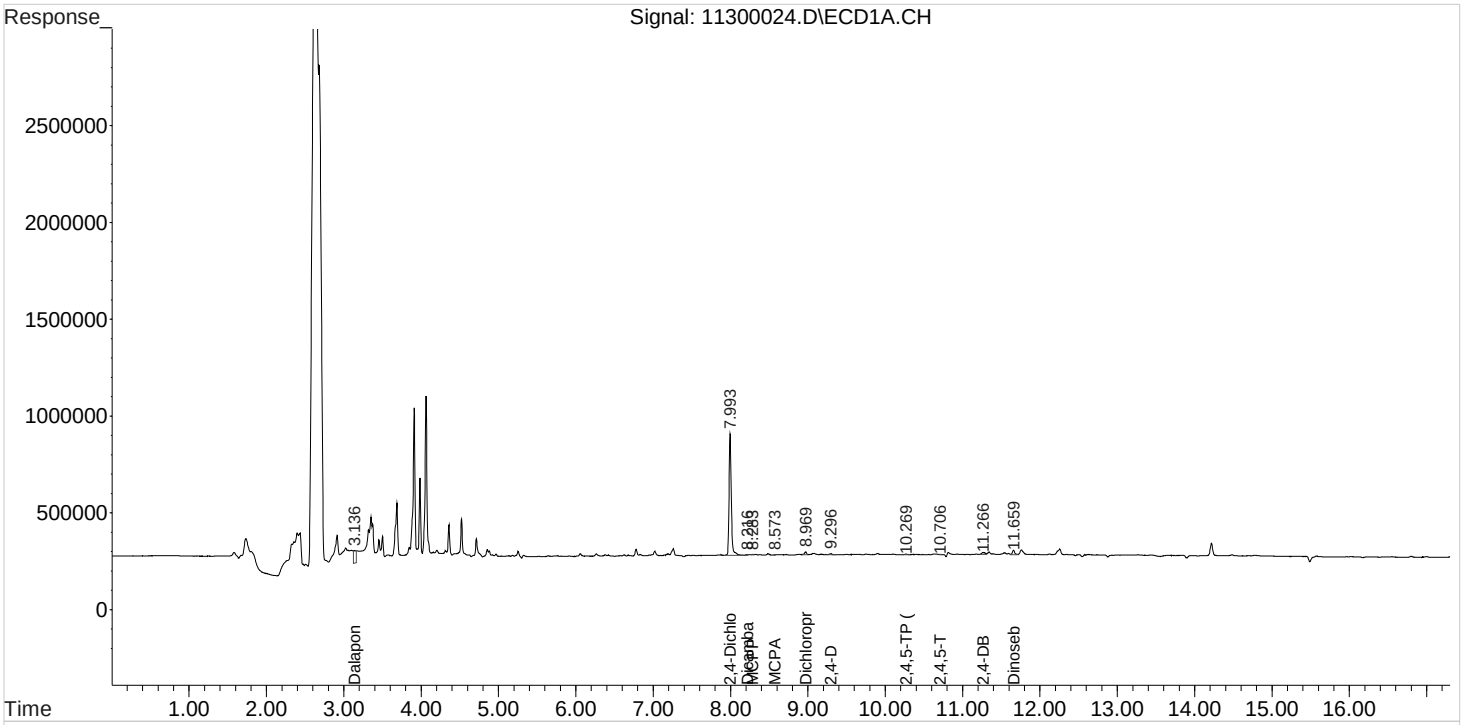
Quantitation Report (Not Reviewed)

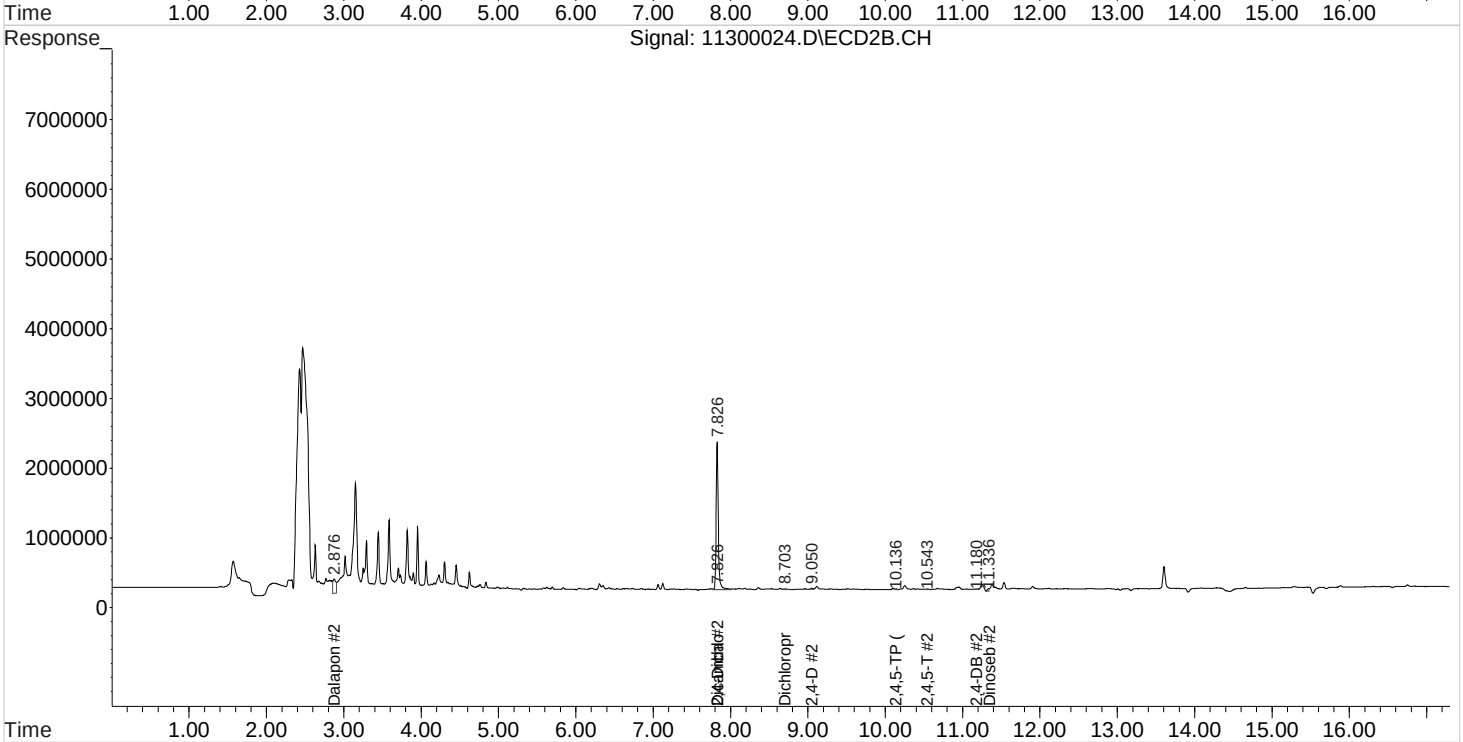
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300024.D Vial: 19
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 6:32 pm Operator: UA
Sample : K2010413-015 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:29 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st 12/01/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300027.D\
Lab ID: K2010413-016
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 19:40:00
Batch ID: 705301
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 - ZB-XLB-HT	Dicamba	7.83			CEND
	DCAA	7.83			CEND

Primary Review: _____

Printed: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300027.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 19:40:00	**Vial:**	78
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-016	**Raw Units:**	ppb

Bottle ID:	K2010413-016.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83 +0.01 c	1061177	3475868	58.317	82.176	58	82	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	10.27 +0.01	10.10 -0.04	6765	49688	0.072	0.245	0.14U	0.48U	2.9 U	Y
2,4-D	9.30 -0.02	9.05 -0.02	7733	35697	0.364	0.697	0.72U	1.4U	9.1 U	Y

Prep Amount:	30.079 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	84.60

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

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

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

Printed: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300027.D Vial: 20
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 7:40 pm Operator: UA
Sample : K2010413-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:38 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.992	7.825	1061177	3475868	58.317	82.176	#
	Target Compounds							
1) m	Dalapon	3.135	2.879	35391	431769	1.459	8.937	#
3) m	Dicamba	8.212	7.825f	13505	3475868	0.193	23.452	#
4) m	MCPP	8.322	8.105	9564	35271	714.586	N.D.	#
5) m	MCPA	8.562	8.359	1209	36053	20.648	N.D.	#
6) m	Dichloroprop	8.969	8.702	22790	23678	1.222	0.568	#
7) m	2,4-D	9.295	9.045	7733	35697	0.364	0.697	#
8) m	2,4,5-TP ...	10.265	10.099	6765	49688	0.072	0.245	#
9) m	2,4,5-T	10.712	10.542	2166	3706	0.026	0.019	#
10) m	2,4-DB	11.269	11.179	31394	13287	3.060	0.458	#
11) m	Dinoseb	11.655	11.332	52943	39781	0.856	0.291	#

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

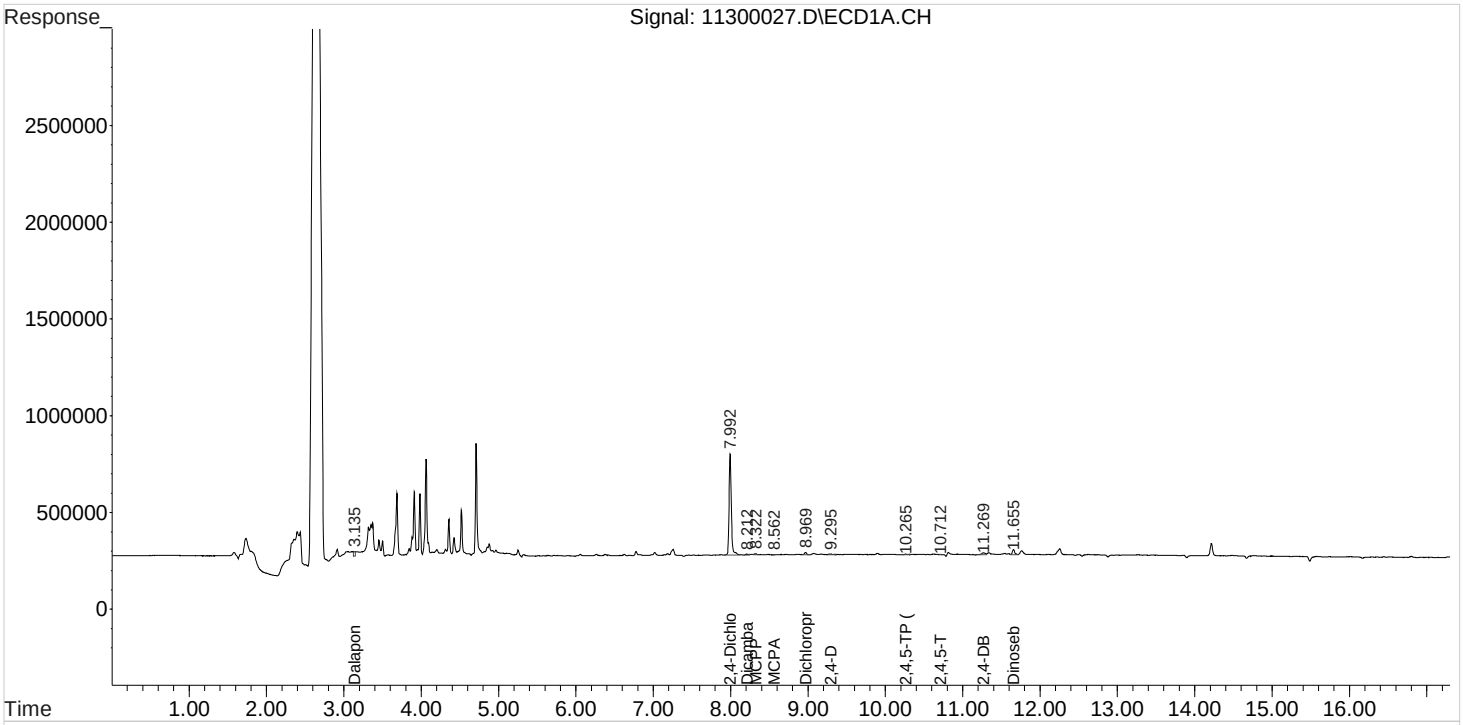
Quantitation Report (Not Reviewed)

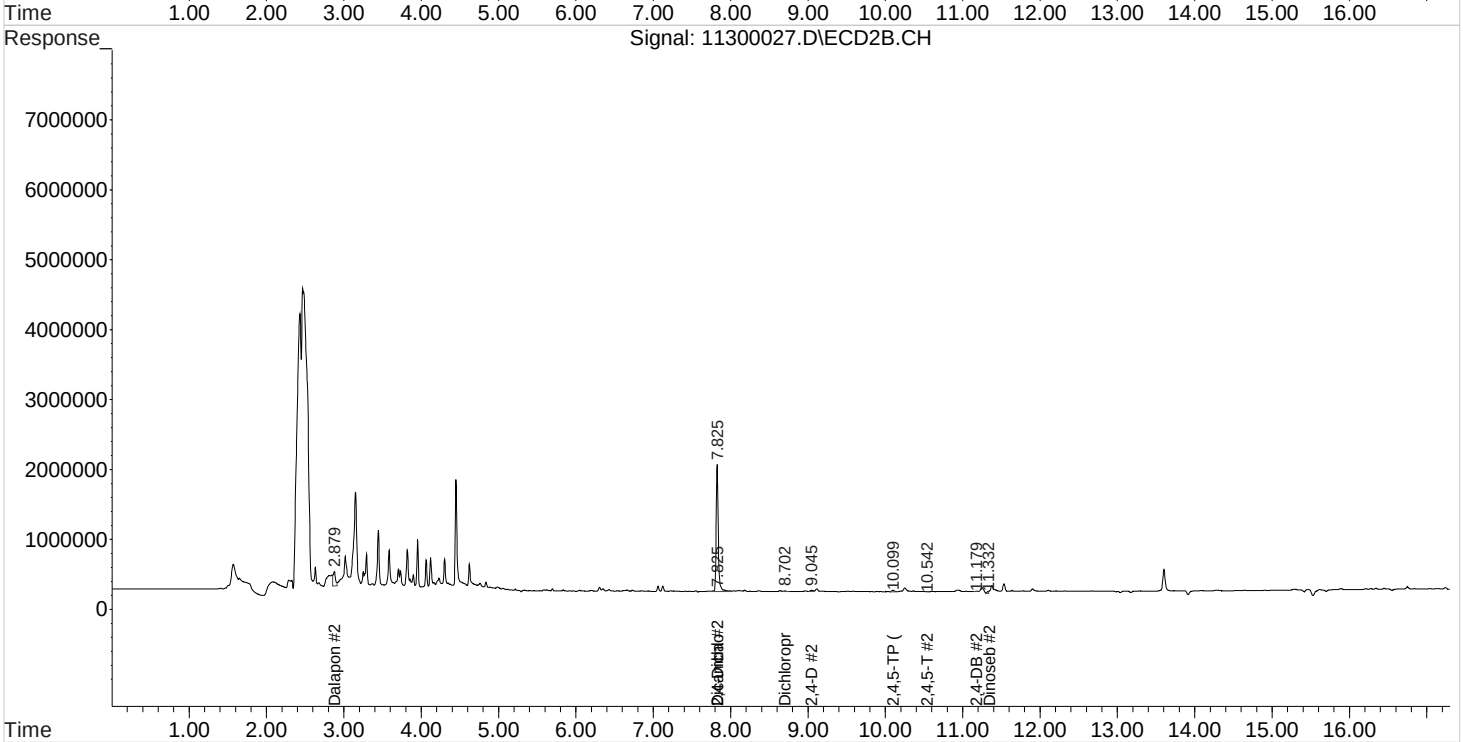
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300027.D Vial: 20
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 7:40 pm Operator: UA
Sample : K2010413-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:38 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st 12/01/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300028.D\
Lab ID: K2010413-017
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 20:03:00
Batch ID: 705301
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 - ZB-XLB-HT	Dicamba	7.82			CEND
	DCAA	7.82			CEND

Primary Review: _____

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300028.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 20:03:00	**Vial:**	79
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-017	**Raw Units:**	ppb

Bottle ID:	K2010413-017.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	c	1204979	3882367	66.220	91.786	66	92	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	10.26	10.10	-0.04	7470	59378	0.080	0.293	0.16U	0.59U	2.9 U	Y
2,4-D	9.29 -0.03	9.04	-0.03	13827	34912	0.651	0.682	1.3U	1.4U	9.3 U	Y

Prep Amount:	30.032 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	83.20

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300028.D Vial: 21
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 8:03 pm Operator: UA
Sample : K2010413-017 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:41 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.991	7.825	1204979	3882367	66.220	91.786	#
	Target Compounds							
1) m	Dalapon	3.135	2.878	1926	178565	0.079	3.696	#
3) m	Dicamba	8.211	7.825f	14260	3882367	0.204	26.195	#
4) m	MCPP	8.281	8.108	9478	41371	712.735	N.D.	#
5) m	MCPA	8.558	8.362	1979	43879	33.799	N.D.	#
6) m	Dichloroprop	8.968	8.702	27745	28455	1.488	0.682	#
7) m	2,4-D	9.295	9.045	13827	34912	0.651	0.682	
8) m	2,4,5-TP ...	10.265	10.098	7470	59378	0.080	0.293	#
9) m	2,4,5-T	10.705	10.538	2462	3959	0.030	0.021	#
10) m	2,4-DB	11.265	11.178	35963	14375	3.505	0.495	#
11) m	Dinoseb	11.655	11.335	57369	40972	0.927	0.300	#

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

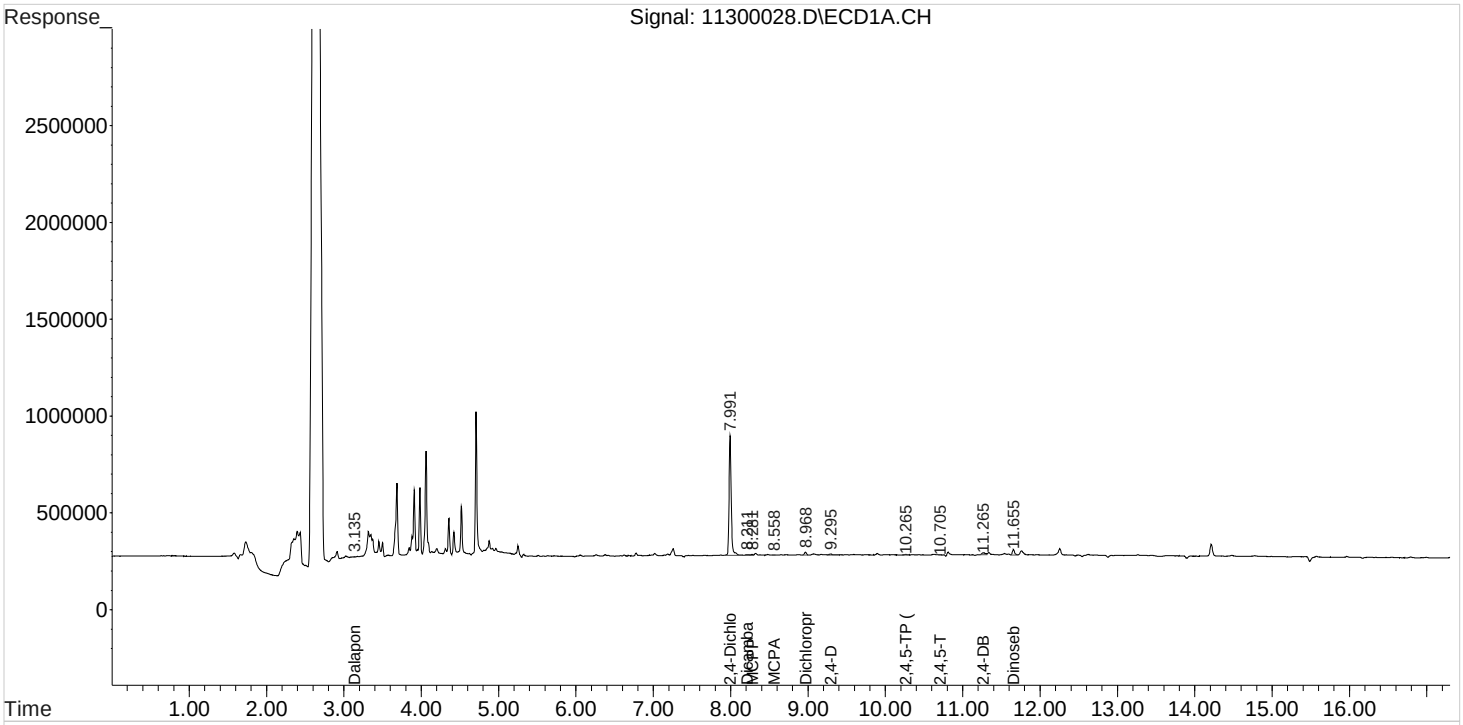
Quantitation Report (Not Reviewed)

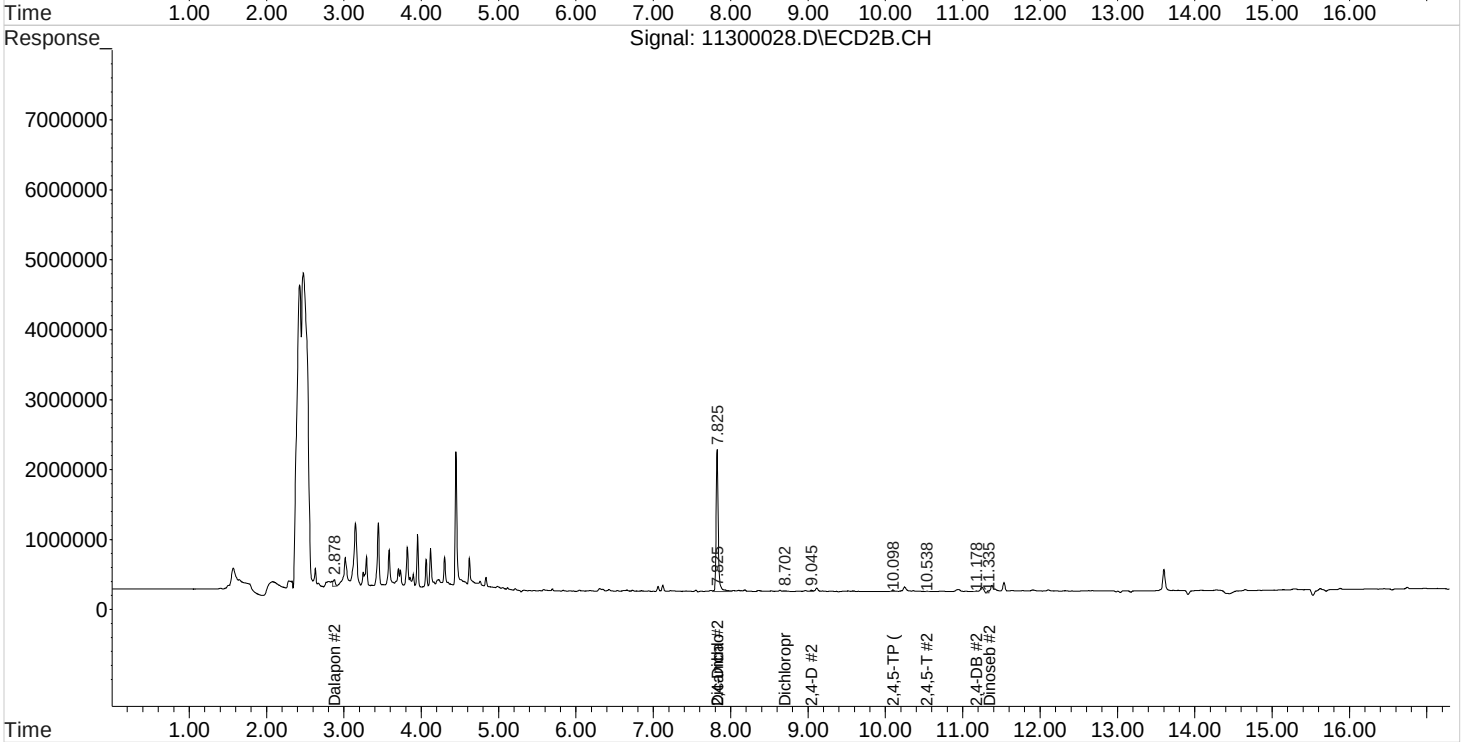
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300028.D Vial: 21
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 8:03 pm Operator: UA
Sample : K2010413-017 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:41 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300029.D\
Lab ID: K2010413-018
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 20:26:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300029.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 20:26:00	**Vial:**	80
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-018	**Raw Units:**	ppb

Bottle ID:	K2010413-018.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1194460	3947331	65.642	93.322	66	93	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	10.26	10.10 -0.04	9014	296784	0.096	1.462	0.33U	5.0U	5.0 U	Y
2,4-D	9.35 +0.03	9.04 -0.03	12400	107030	0.584	2.090	2.0U	7.1U	16 U	Y

Prep Amount:	30.045 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	48.80

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300029.D Vial: 22
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 8:26 pm Operator: UA
Sample : K2010413-018 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.993	7.823	1194460	3947331	65.642	93.322	#
	Target Compounds							
1) m	Dalapon	3.136	2.876	2941	492733	0.121	10.199	#
3) m	Dicamba	8.193	7.940	9598	107567	0.138	0.726	#
4) m	MCPP	8.319	8.106	65228	98500	1912.429	N.D.	#
5) m	MCPA	8.596	8.363	27703	60388	473.131	N.D.	#
6) m	Dichloroprop	8.969	8.790	23652	50720	1.268	1.216	
7) m	2,4-D	9.353	9.043	12400	107030	0.584	2.090	#
8) m	2,4,5-TP ...	10.259	10.096	9014	296784	0.096	1.462	#
9) m	2,4,5-T	10.703	10.546	14099	3194	0.171	0.017	#
10) m	2,4-DB	11.249	11.180	43024	49540	4.194	1.707	#
11) m	Dinoseb	11.656	11.376f	81241	749689	1.313	5.482	#

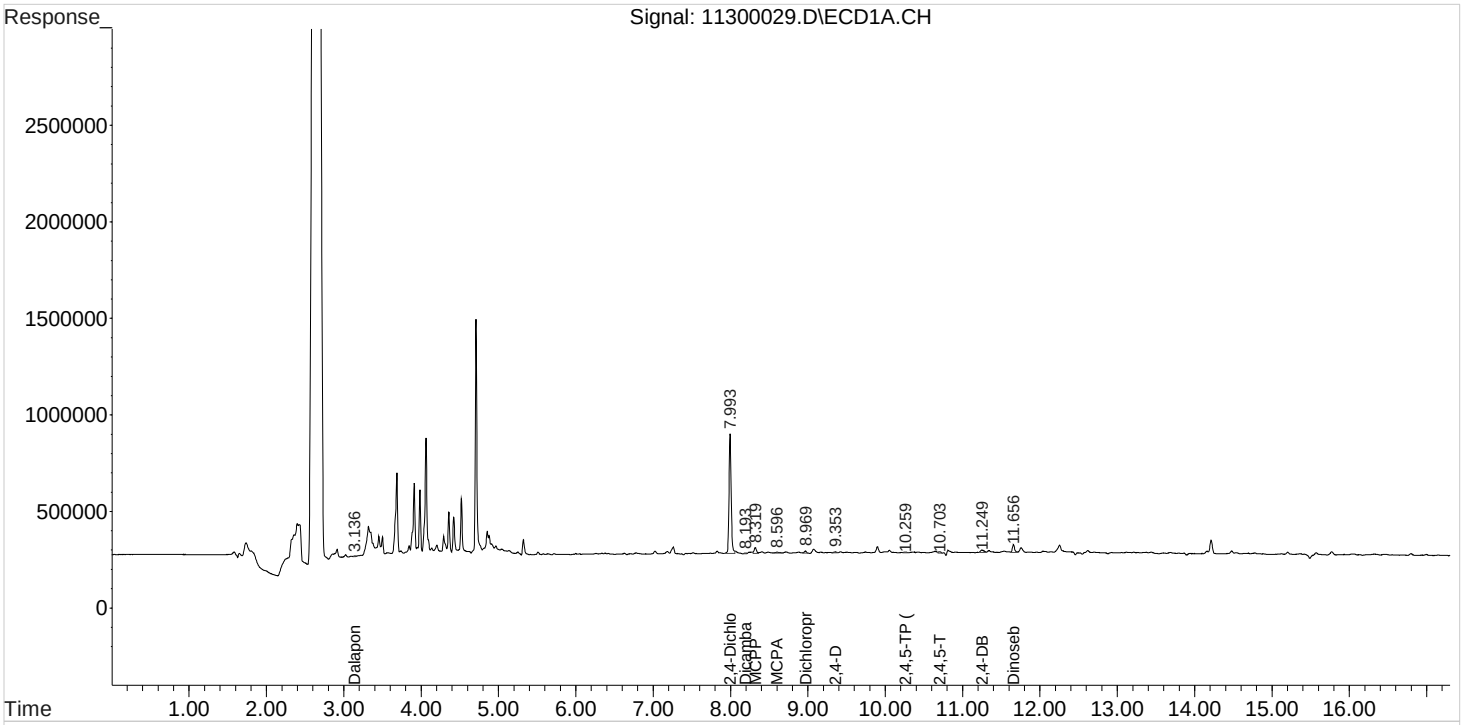
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

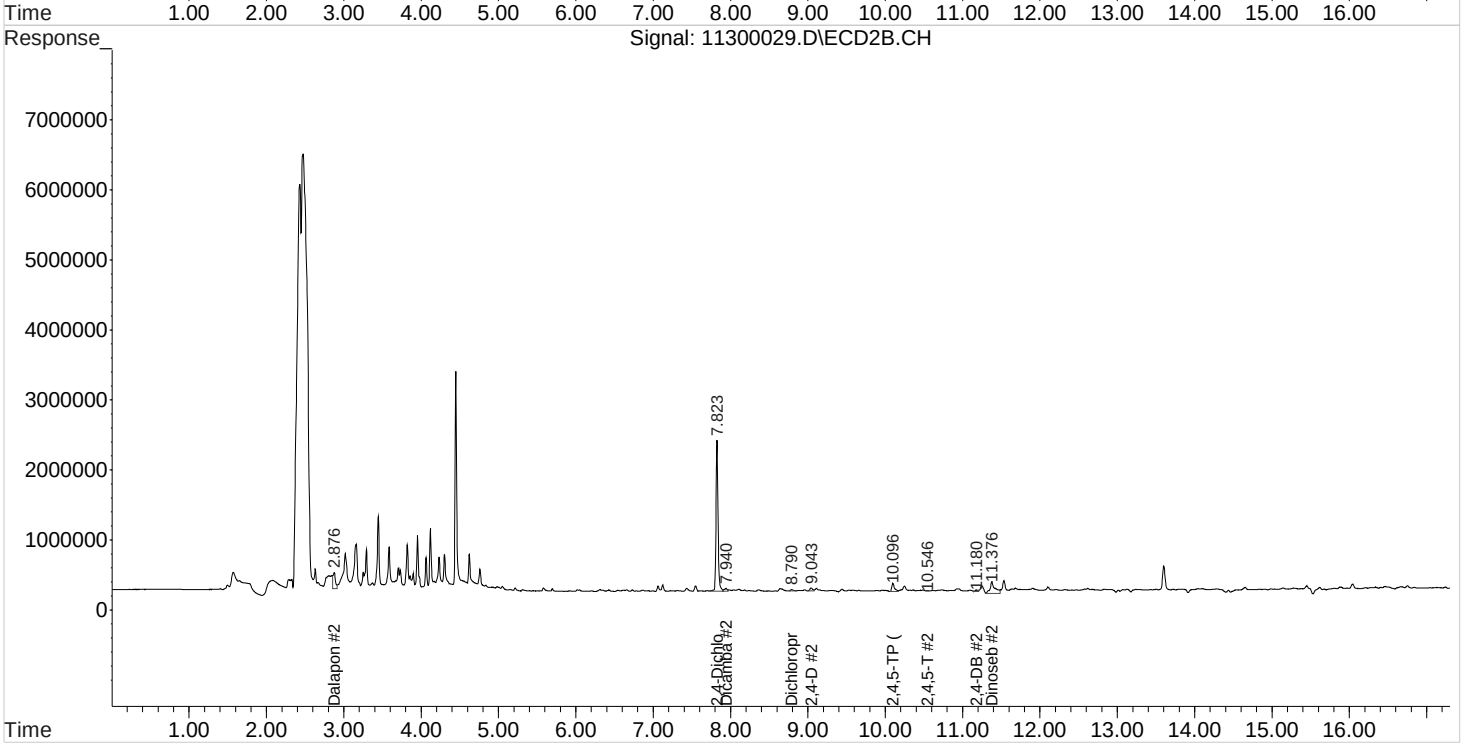
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300029.D Vial: 22
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 8:26 pm Operator: UA
Sample : K2010413-018 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300030.D\
Lab ID: K2010413-019
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 20:48:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300030.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 20:48:00	**Vial:**	81
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-019	**Raw Units:**	ppb

Bottle ID:	K2010413-019.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1331049	4294708	73.148	101.535	73	102	73	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.10 -0.04	6709	319715	0.072	1.575	0.22U	4.9J	4.5 U	Y
2,4-D	9.35 +0.03	9.04 -0.03	11609	75913	0.547	1.483	1.7U	4.6U	15 U	Y

Prep Amount:	30.084 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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300030.D Vial: 23
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 8:48 pm Operator: UA
Sample : K2010413-019 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.993	7.823	1331049	4294708	73.148	101.535	#
	Target Compounds							
1) m	Dalapon	3.139	2.879	5503	424538	0.227	8.787	#
3) m	Dicamba	8.236	7.939	9246	99652	0.132	0.672	#
4) m	MCPP	8.319	8.109	86517	61828	2370.551	N.D.	#
5) m	MCPA	8.599	8.359	8282	78301	141.446	N.D.	#
6) m	Dichloroprop	8.969	8.786	21717	39525	1.165	0.947	
7) m	2,4-D	9.349	9.039	11609	75913	0.547	1.483	#
8) m	2,4,5-TP ...	10.259	10.096	6709	319715	0.072	1.575	#
9) m	2,4,5-T	10.699	10.486	22384	23215	0.271	0.121	#
10) m	2,4-DB	11.249	11.179	69230	33767	6.748	1.164	#
11) m	Dinoseb	11.656	11.376f	76788	735877	1.241	5.381	#

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

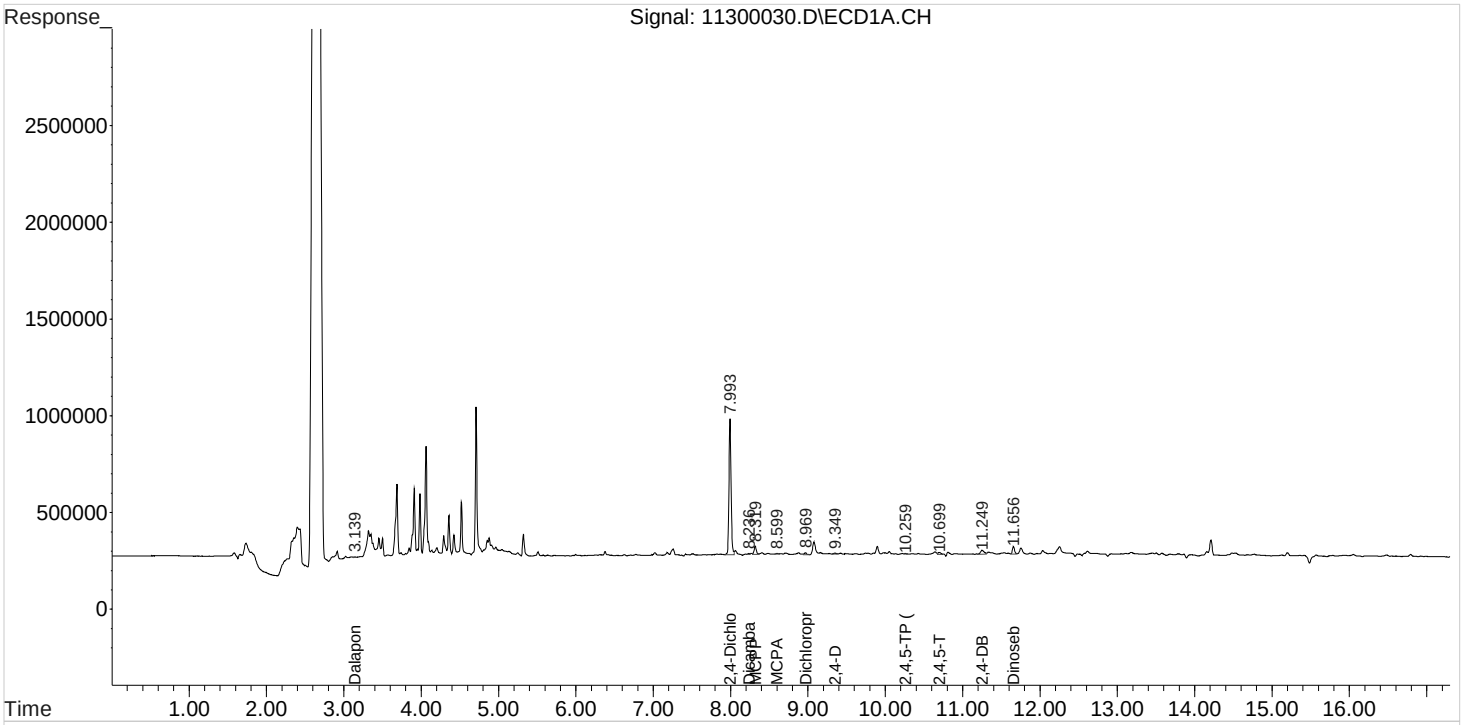
Quantitation Report (Not Reviewed)

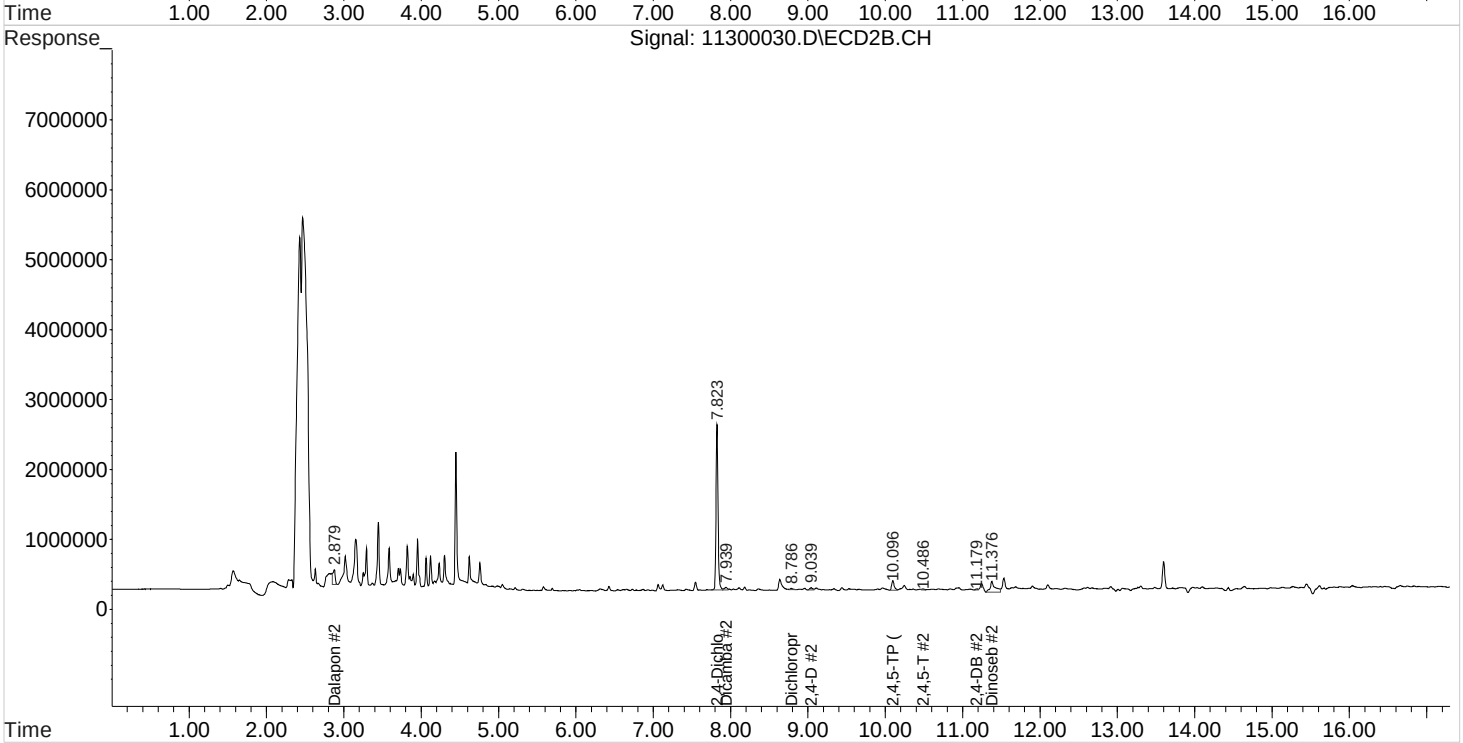
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300030.D Vial: 23
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 8:48 pm Operator: UA
Sample : K2010413-019 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st STM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300031.D\
Lab ID: K2010413-020
RunType: N/A
Matrix: Sediment

Date Acquired: 11/30/20 21:11:00
Batch ID: 705301
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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300031.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 21:11:00	**Vial:**	82
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010413-020	**Raw Units:**	ppb

Bottle ID:	K2010413-020.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	K2010413
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1135662	3565377	62.411	84.292	62	84	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	10.26	10.10 -0.04	5097	269677	0.054	1.328	0.16U	4.0U	4.4 U	Y
2,4-D	9.34 +0.02	9.04 -0.03	5093	69283	0.240	1.353	0.72U	4.1U	14 U	Y

Prep Amount:	30.229 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	55.10

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: 12/3/20 15:14
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300031.D Vial: 24
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 9:11 pm Operator: UA
Sample : K2010413-020 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.994	7.824	1135662	3565377	62.411	84.292	#
	Target Compounds							
1) m	Dalapon	3.140	2.880	9170	480570	0.378	9.947	#
3) m	Dicamba	8.204	7.944	13442	142357	0.193	0.960	#
4) m	MCPP	8.320	8.110	63830	69922	1882.346	N.D.	#
5) m	MCPA	8.607	8.357	7905	69631	135.007	N.D.	#
6) m	Dichloroprop	8.970	8.784	13655	16779	0.732	0.402	#
7) m	2,4-D	9.344	9.040	5093	69283	0.240	1.353	#
8) m	2,4,5-TP ...	10.264	10.100	5097	269677	0.054	1.328	#
9) m	2,4,5-T	10.700	10.550	15311	4256	0.186	0.022	#
10) m	2,4-DB	11.250	11.184	39007	31112	3.802	1.072	#
11) m	Dinoseb	11.660	11.377f	67703	543712	1.094	3.976	#

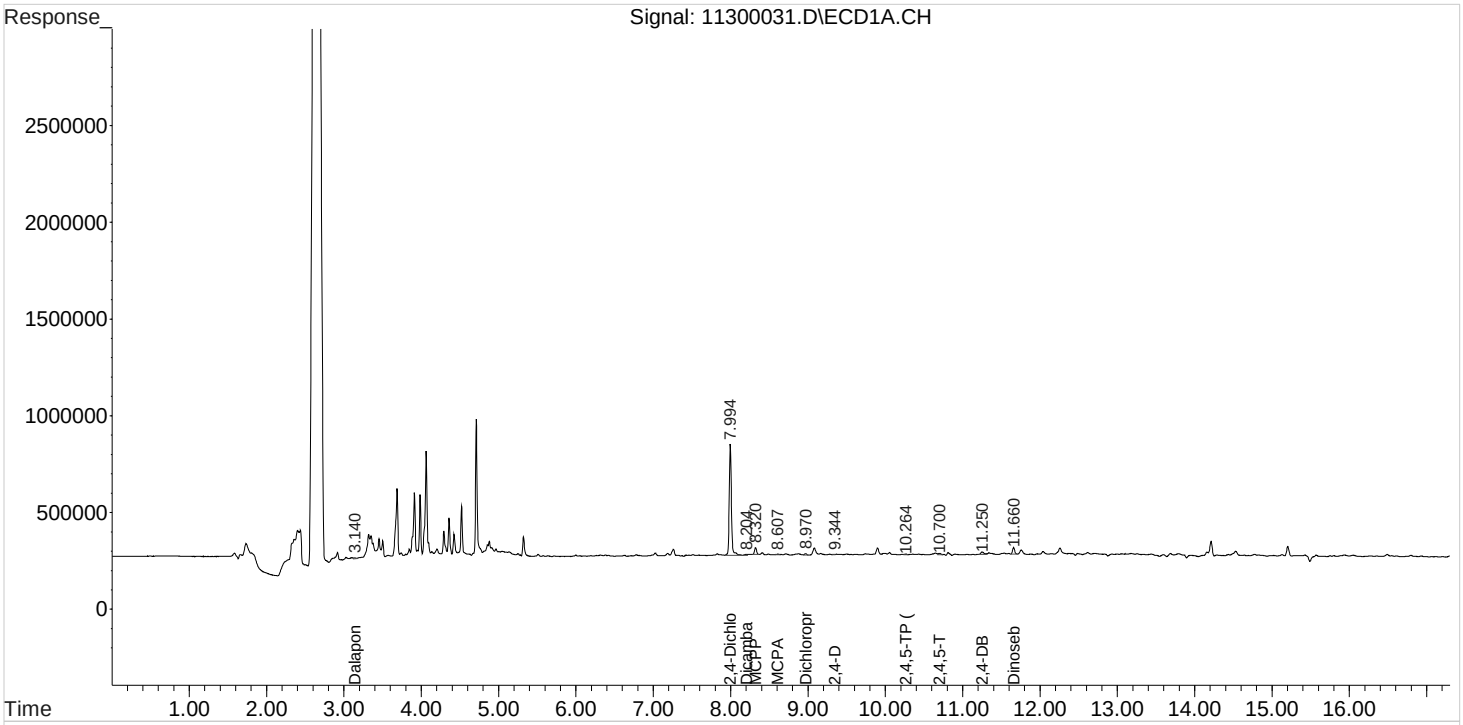
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

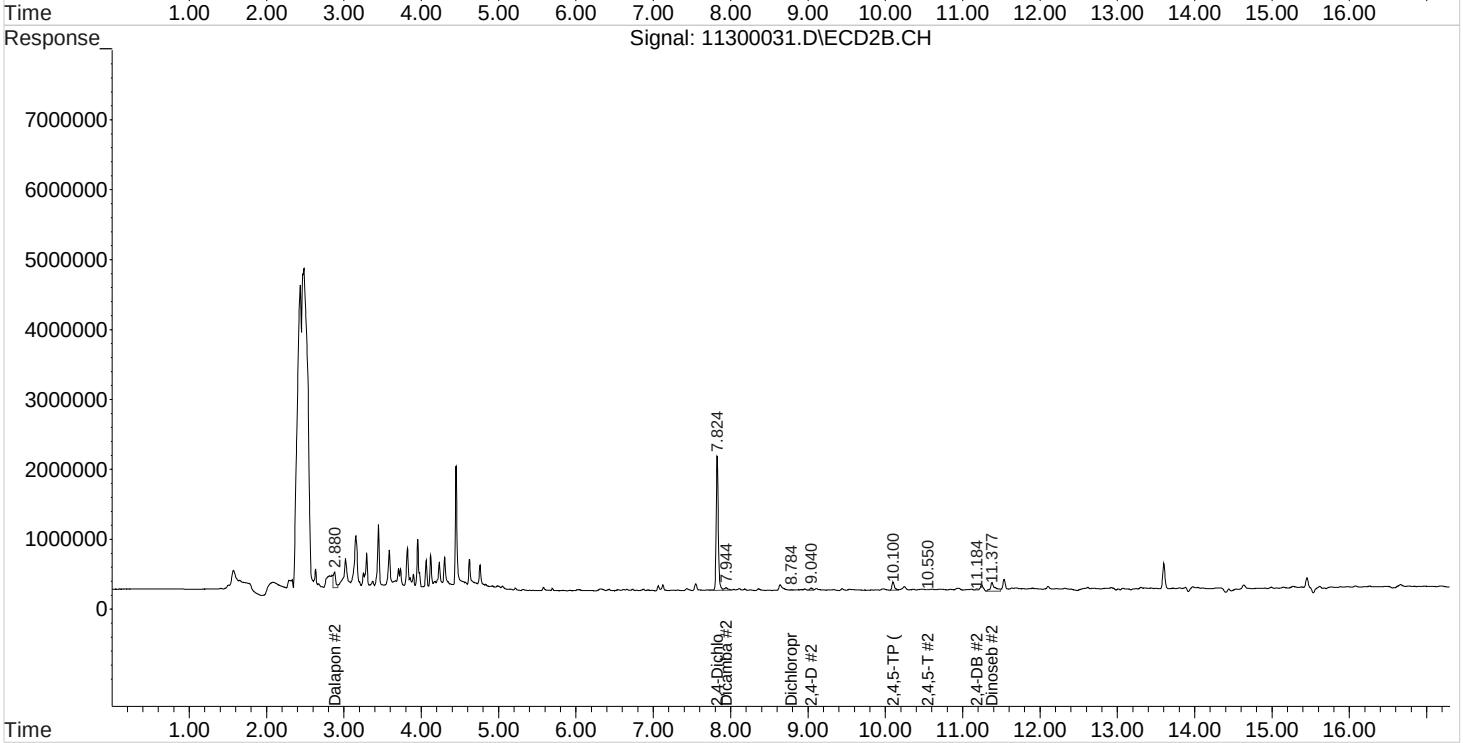
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300031.D Vial: 24
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 9:11 pm Operator: UA
Sample : K2010413-020 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 11/30/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300006.D\
Lab ID: KQ2017769-04
RunType: MB
Matrix: Sediment

Date Acquired: 11/30/20 11:42:00
Batch ID: 705301
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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - ZB-XLB-HT	Dicamba	7.82			CEND
	DCAA	7.82			CEND

Primary Review: _____

Printed: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300006.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 11:42:00	**Vial:**	86
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2017769-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	KQ2017769
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	c	1063339	3217150	58.436	76.059	58	76	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	10.26	10.14	11280	34241	0.120	0.169	0.20U	0.28U	2.4 U	Y
2,4-D	9.28 -0.04	9.04 -0.03	7142	42199	0.336	0.824	0.56U	1.4U	7.7 U	Y

Prep Amount:	30.2520 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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300006.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 11:42 am Operator: UA
Sample : KQ20107764-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.990	7.821	1063339	3217150	58.436	76.059	m#
	Target Compounds							
1) m	Dalapon	0.000	2.877	0	639269	N.D. d	13.232	
3) m	Dicamba	0.000	7.821f	0	3638154	N.D. d	24.547	
4) m	MCPP	8.317	8.111	6195	50628	642.088	N.D.	#
5) m	MCPA	8.557	8.357	23247	41928	397.028	N.D.	#
6) m	Dichloroprop	8.967	8.694f	24932	18044	1.337	0.433	#
7) m	2,4-D	9.280	9.044	7142	42199	0.336	0.824	#
8) m	2,4,5-TP ...	10.257	10.141	11280	34241	0.120	0.169	#
9) m	2,4,5-T	10.710	10.547	3769	9421	0.046	0.049	
10) m	2,4-DB	11.264	11.177	1230	10457	0.120	0.360	#
11) m	Dinoseb	11.654	11.331	68740	70695	1.111	0.517	#

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

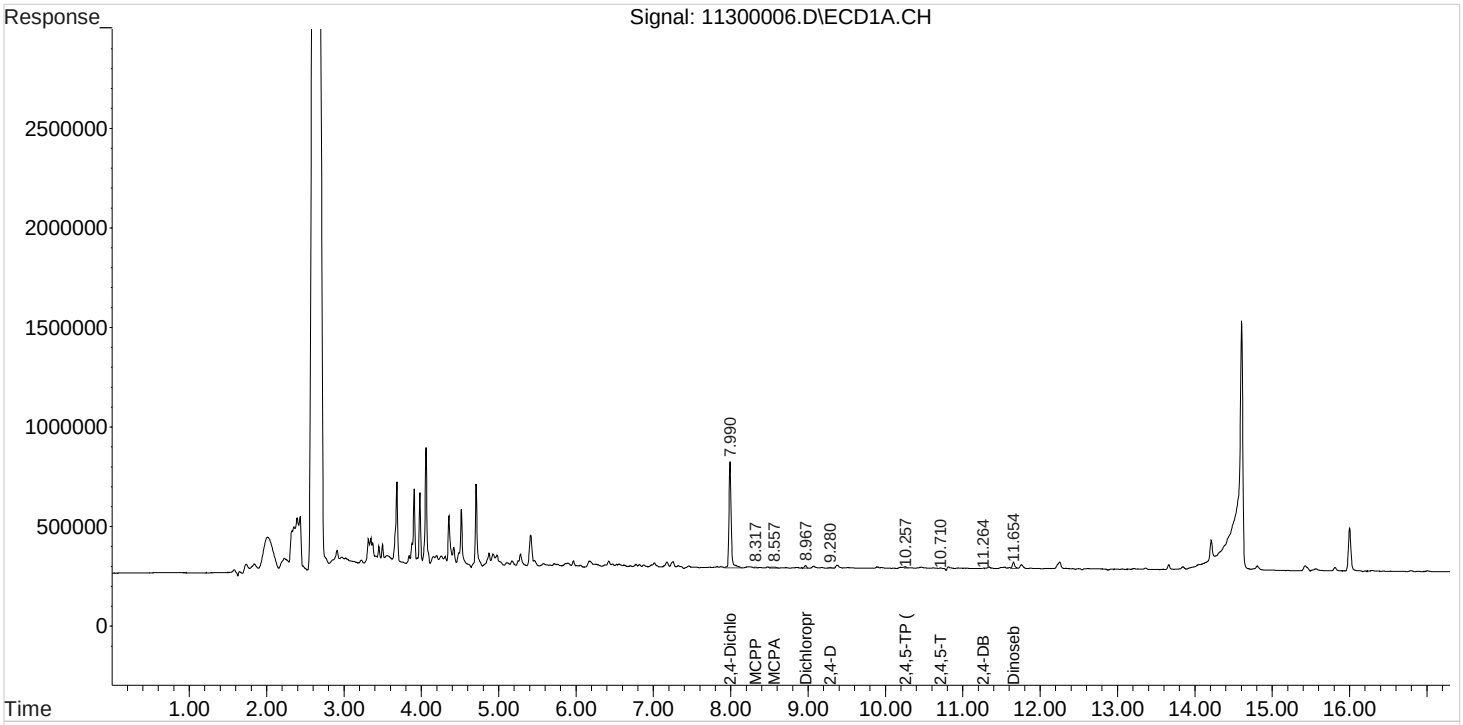
Quantitation Report (QT Reviewed)

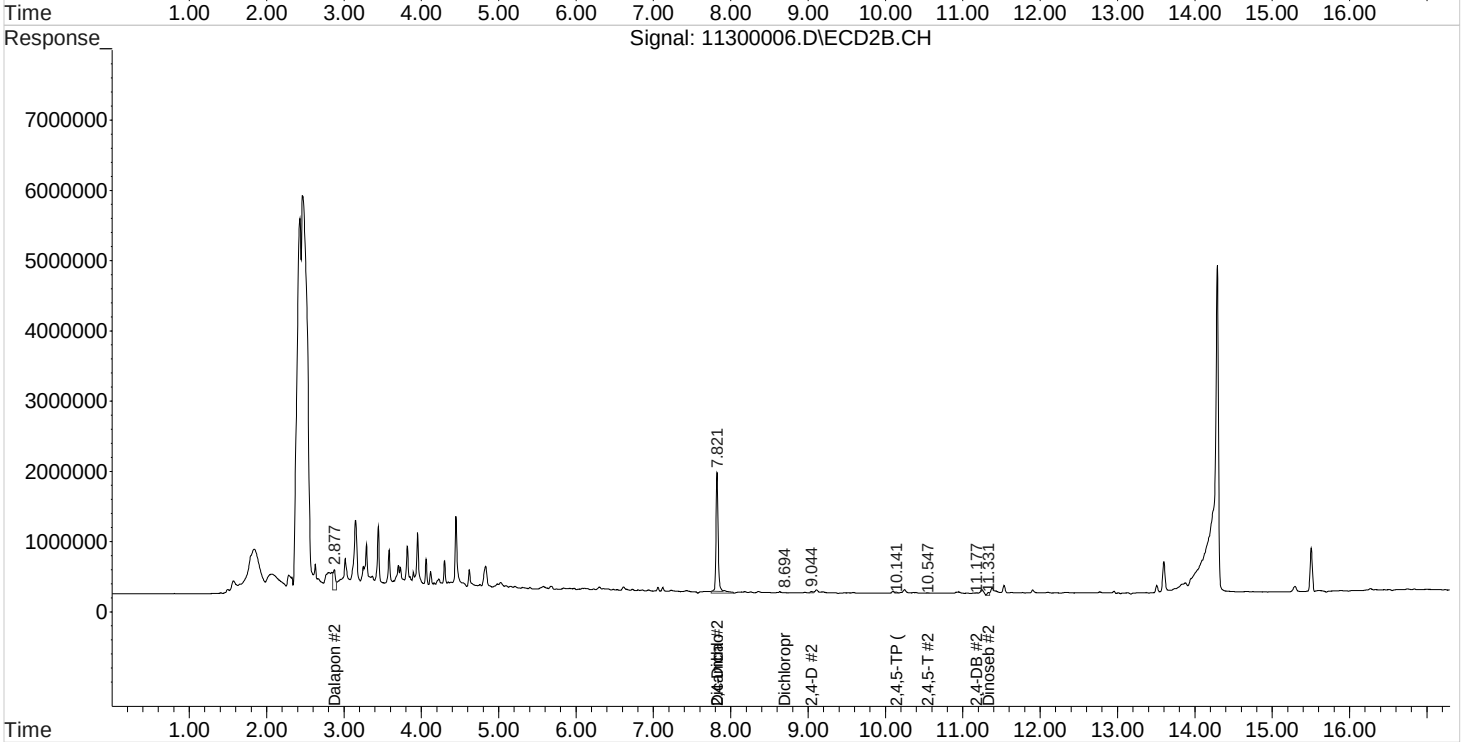
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300006.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 11:42 am Operator: UA
Sample : KQ20107764-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



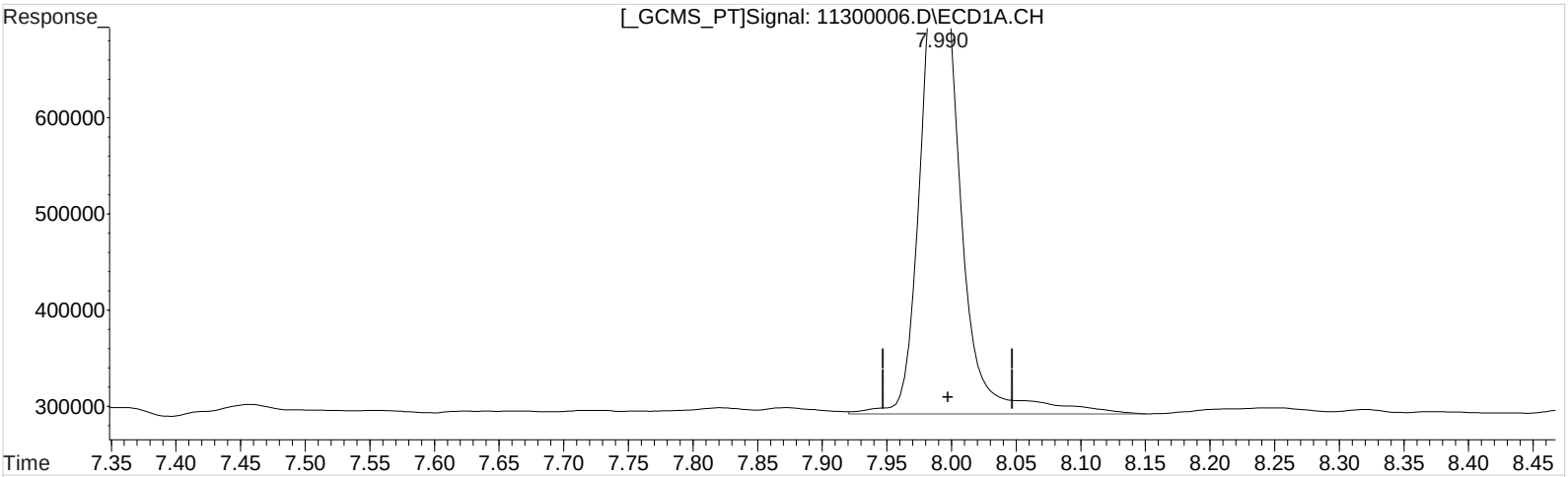


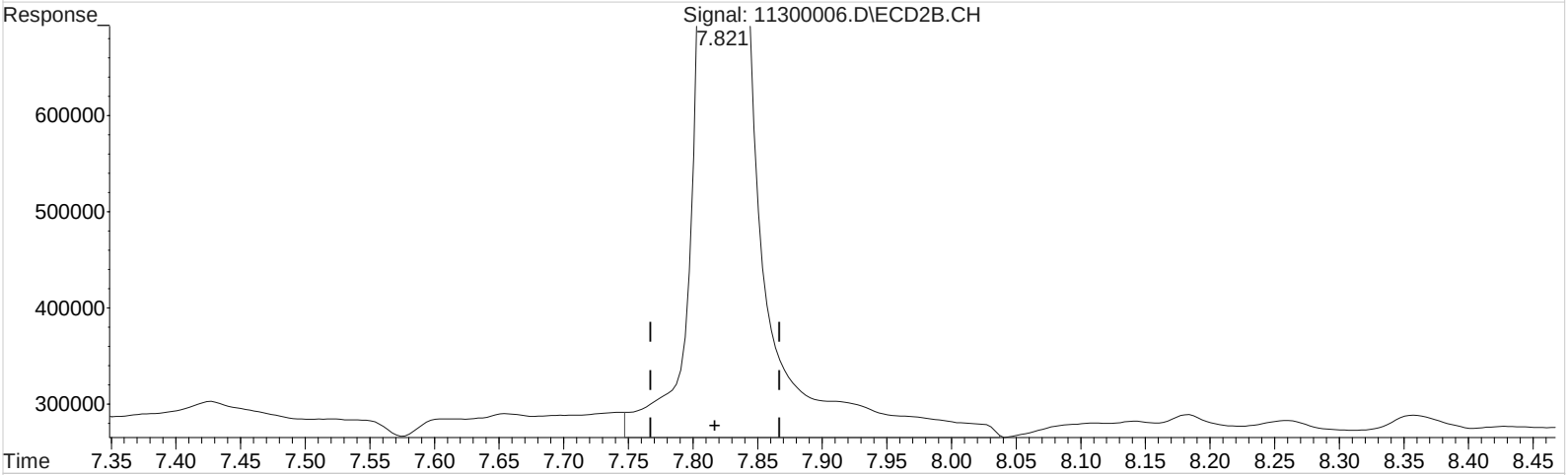
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300006.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 11:42 am Operator: UA
Sample : KQ20107764-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:22:45 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.990min 58.436 ppb

response 1063339

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

7.821min 86.013 ppb

response 3638154

Manual Integration:

Before

11/30/20

(+) = Expected Retention Time

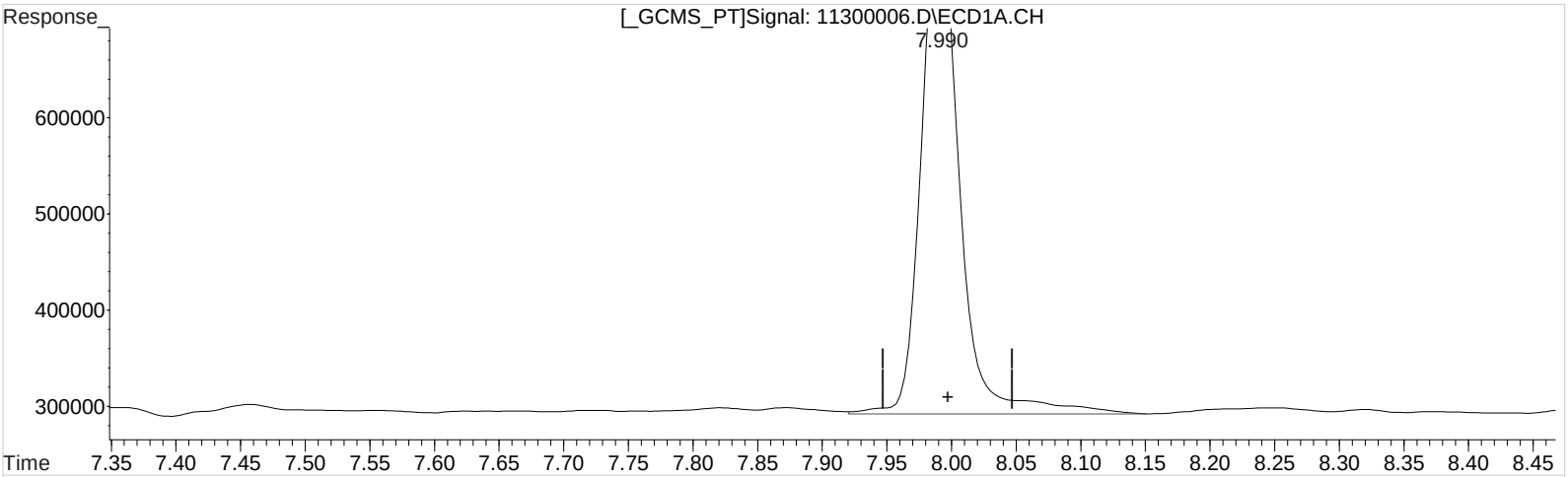
Quantitation Report (Qedit)

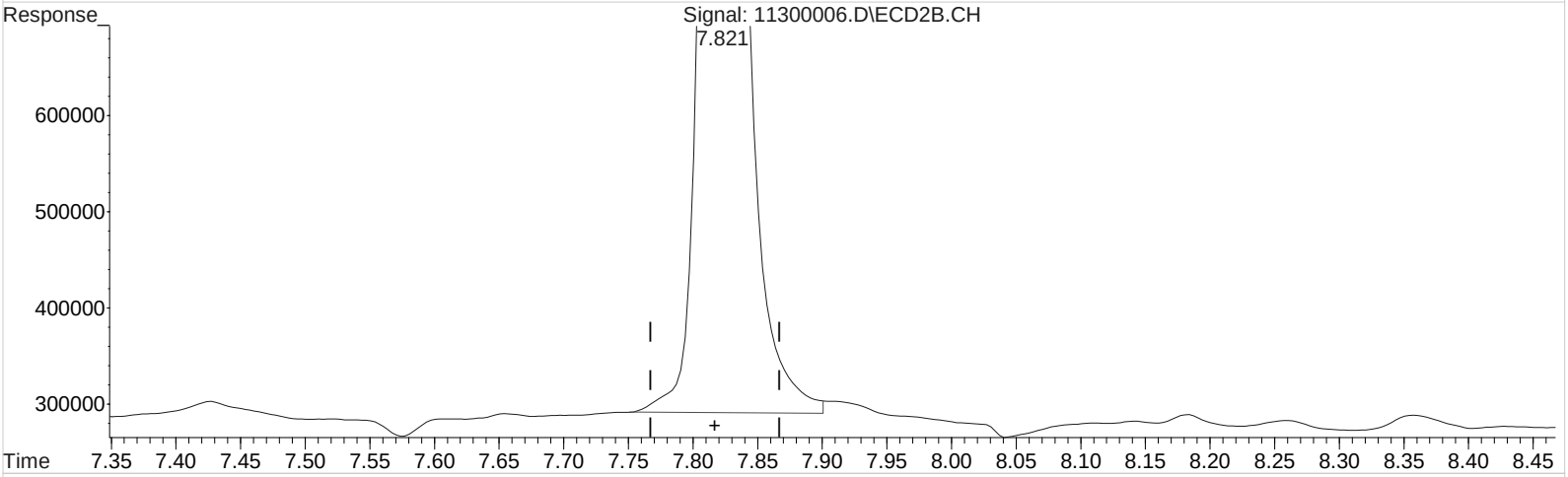
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300006.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 11:42 am Operator: UA
Sample : KQ20107764-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:22:45 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.990min 58.436 ppb

response 1063339

Manual Integration:

After

Baseline/Shoulder

11/30/20

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

7.821min 76.059 ppb m

response 3217150

(+) = Expected Retention Time

1st SM 11/30/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300007.D\
Lab ID: KQ2017769-03
RunType: LCS
Matrix: Sediment

Date Acquired: 11/30/20 12:05:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd JW 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300007.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 12:05:00	**Vial:**	85
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2017769-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	KQ2017769
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1253246	3664397	68.873	86.633	69	87	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	10.26	10.14	5487141	14691349	58.573	72.372	97.6	121	**97.6**	Y
2,4-D	9.32	9.07	1164831	3418482	54.841	66.769	91.4	111	**91.4**	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300007.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 12:05 pm Operator: UA
Sample : KQ20107764-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:22:48 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.993	7.824	1253246	3664397	68.873	86.633	#
		Target Compounds							
1)	m	Dalapon	3.123	2.877	1428662	3512586	58.893	72.705	
3)	m	Dicamba	8.213	7.927	4467644	11203280	64.006	75.589	
4)	m	MCPP	8.297	8.117	310434	1607097	7189.060	9688.511	#
5)	m	MCPA	8.563	8.364	383926	2038261	6556.950	8893.896	#
6)	m	Dichloroprop	8.963	8.764	1140226	3068474	61.145	73.558	
7)	m	2,4-D	9.320	9.070	1164831	3418482	54.841	66.769	
8)	m	2,4,5-TP ...	10.260	10.140	5487141	14691349	58.573	72.372	
9)	m	2,4,5-T	10.707	10.544	4099073	11296538	49.680	59.031	
10)	m	2,4-DB	11.283	11.180	746289	1572932	72.742	54.209	#
11)	m	Dinoseb	11.683	11.327	3050205	7641450	49.303	55.876	

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

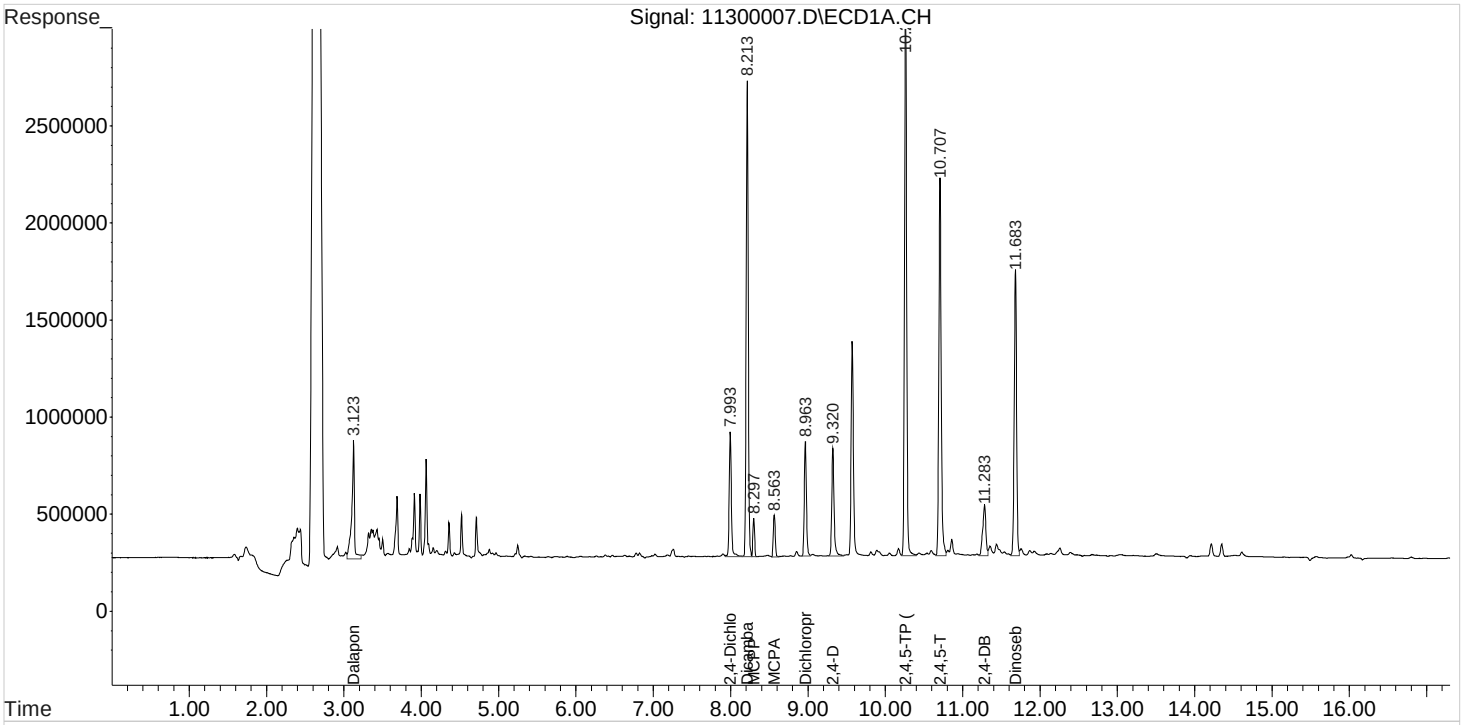
Quantitation Report (Not Reviewed)

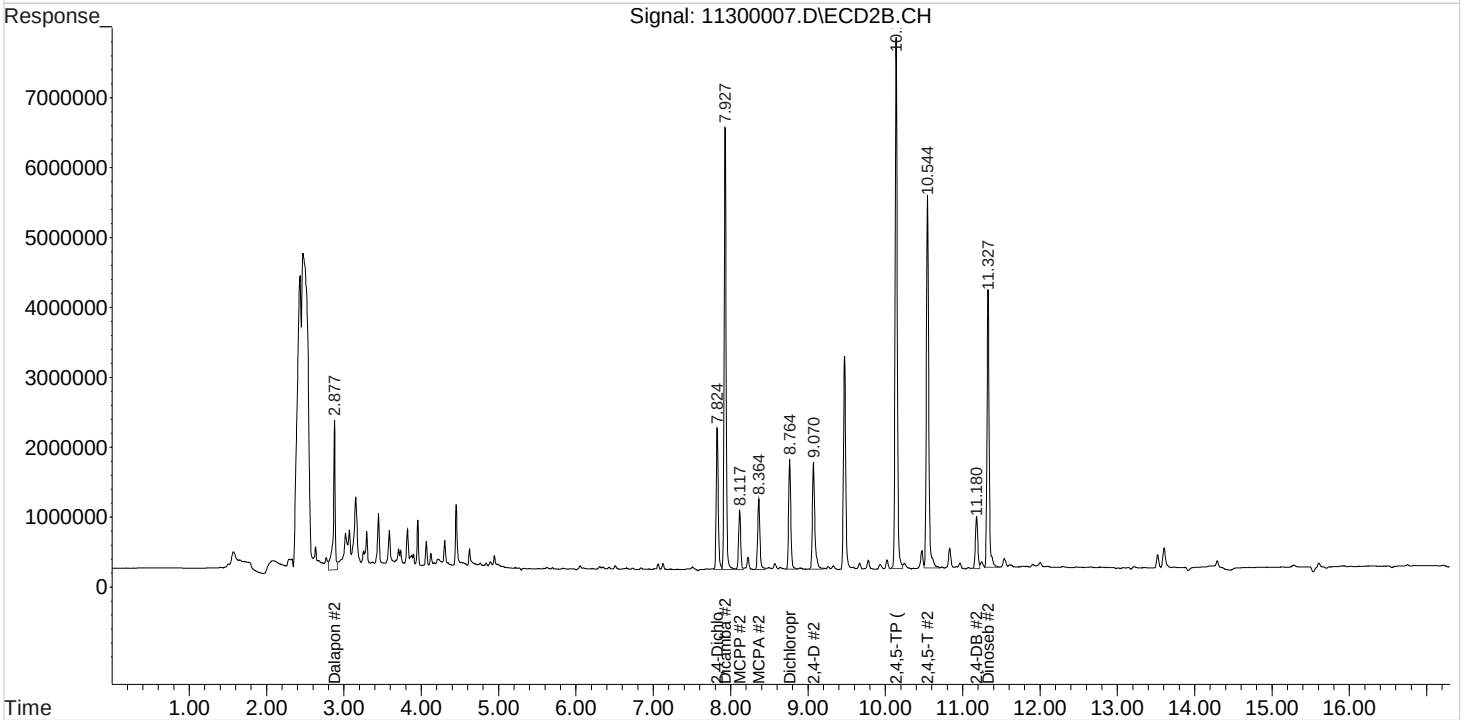
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300007.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 12:05 pm Operator: UA
Sample : KQ20107764-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:22:48 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300032.D\
Lab ID: KQ2017769-01
RunType: MS
Matrix: Sediment

Date Acquired: 11/30/20 21:34:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st STM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300032.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 21:34:00	**Vial:**	83
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ2017769-01	**Raw Units:**	ppb

Bottle ID:	K2010413-004.02	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	KQ2017769
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83 +0.01	1208598	3784195	66.419	89.465	66	89	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	10.26	10.14	5401667	15070994	57.660	74.242	129	166	**129**	Y
2,4-D	9.32	9.07	1177369	3476292	55.431	67.898	124	152	**124**	Y

Prep Amount:	30.093 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	74.10

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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300032.D Vial: 25
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 9:34 pm Operator: UA
Sample : KQ20107764-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:53 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.995	7.828	1208598	3784195	66.419	89.465	#
	Target Compounds							
1) m	Dalapon	3.125	2.878	1237271	3831183	51.004	79.300	#
3) m	Dicamba	8.215	7.932	4493696	11690200	64.380	78.874	
4) m	MCPP	8.302	8.118	352787	1645388	8100.461	9953.155	
5) m	MCPA	8.565	8.365	400173	2126183	6834.428	9358.587	#
6) m	Dichloroprop	8.965	8.765	1137712	3233125	61.011	77.505	#
7) m	2,4-D	9.322	9.072	1177369	3476292	55.431	67.898	
8) m	2,4,5-TP ...	10.262	10.142	5401667	15070994	57.660	74.242	#
9) m	2,4,5-T	10.708	10.548	4038014	11575290	48.940	60.487	
10) m	2,4-DB	11.285	11.178	726189	1550171	70.783	53.425	
11) m	Dinoseb	11.685	11.328	3169090	8281823	51.225	60.559	

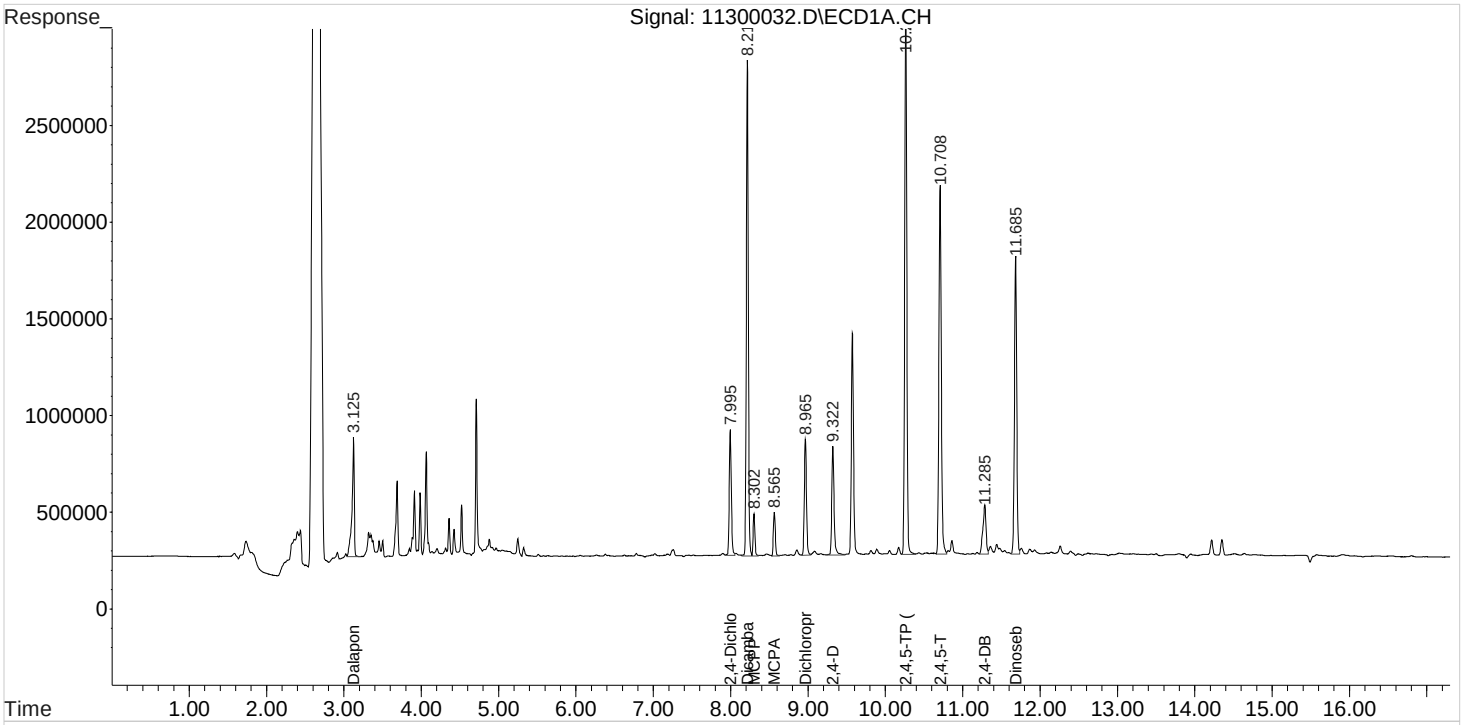
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

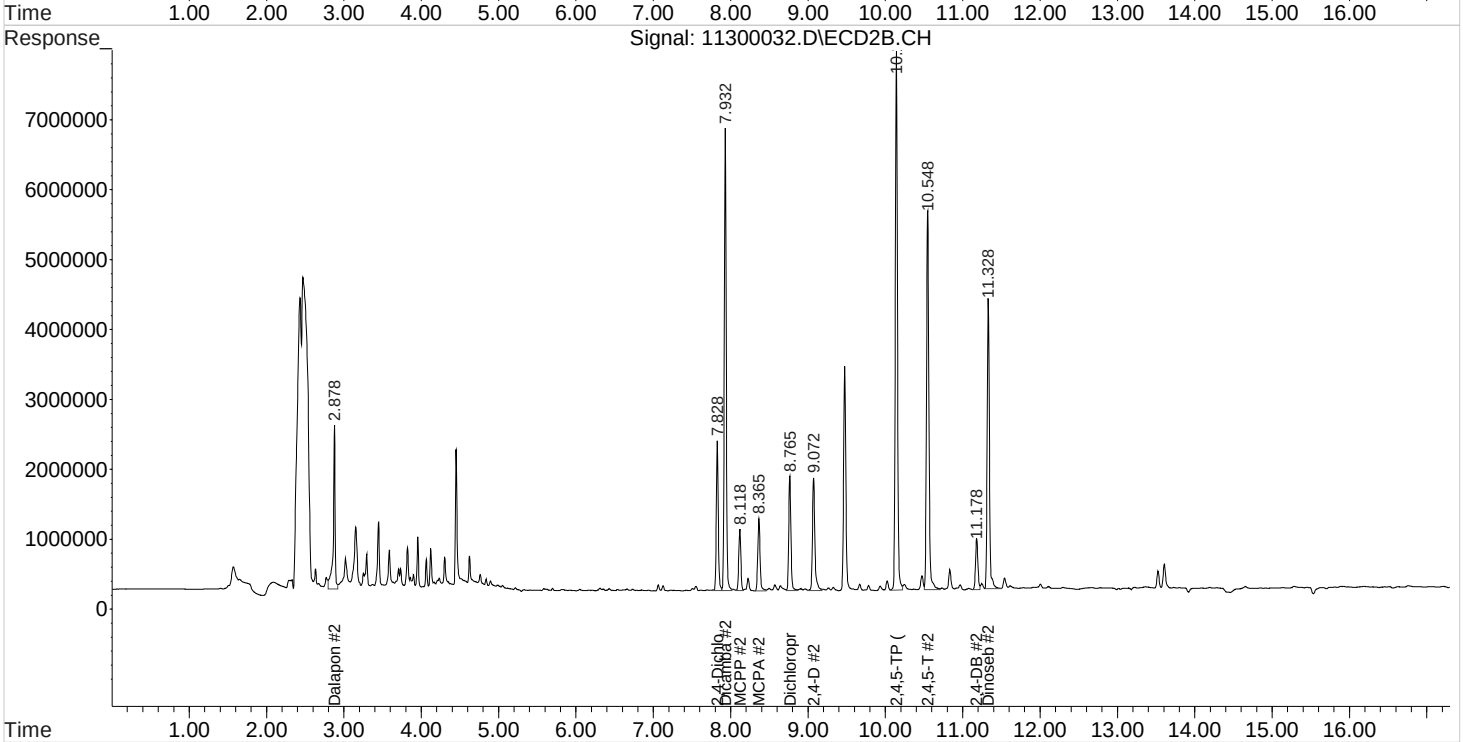
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300032.D Vial: 25
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 9:34 pm Operator: UA
Sample : KQ20107764-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:53 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st STM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300033.D\
Lab ID: KQ2017769-02
RunType: DMS
Matrix: Sediment

Date Acquired: 11/30/20 21:57:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st STM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300033.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 21:57:00	**Vial:**	84
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ2017769-02	**Raw Units:**	ppb

Bottle ID:	K2010413-004.02	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/7/20	**Receive Date:**	11/10/20

Analysis Lot:	705301	**Prep Lot:**	369615	**Report Group:**	KQ2017769
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/11/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83 +0.01	1180946	3715990	64.899	87.853	65	88	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	10.26	10.14	5349456	14754226	57.103	72.682	128	163	**128**	Y
2,4-D	9.32	9.07	1150313	3431528	54.158	67.024	121	150	**121**	Y

Prep Amount:	30.152 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	74.10

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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300033.D Vial: 26
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 9:57 pm Operator: UA
Sample : KQ20107764-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:56 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.995	7.828	1180946	3715990	64.899	87.853	#
		Target Compounds							
1)	m	Dalapon	3.124	2.878	1146538	3986825	47.263	82.521	#
3)	m	Dicamba	8.214	7.928	4338937	11215884	62.163	75.674	
4)	m	MCPP	8.301	8.118	336720	1618380	7754.713	9766.492	#
5)	m	MCPA	8.565	8.365	394245	2078413	6733.185	9106.110	#
6)	m	Dichloroprop	8.968	8.765	1109500	3102182	59.498	74.366	
7)	m	2,4-D	9.321	9.071	1150313	3431528	54.158	67.024	
8)	m	2,4,5-TP ...	10.261	10.141	5349456	14754226	57.103	72.682	#
9)	m	2,4,5-T	10.708	10.548	4067588	11604981	49.298	60.643	
10)	m	2,4-DB	11.285	11.178	725985	1616348	70.763	55.706	
11)	m	Dinoseb	11.685	11.328	3111464	7727834	50.293	56.508	

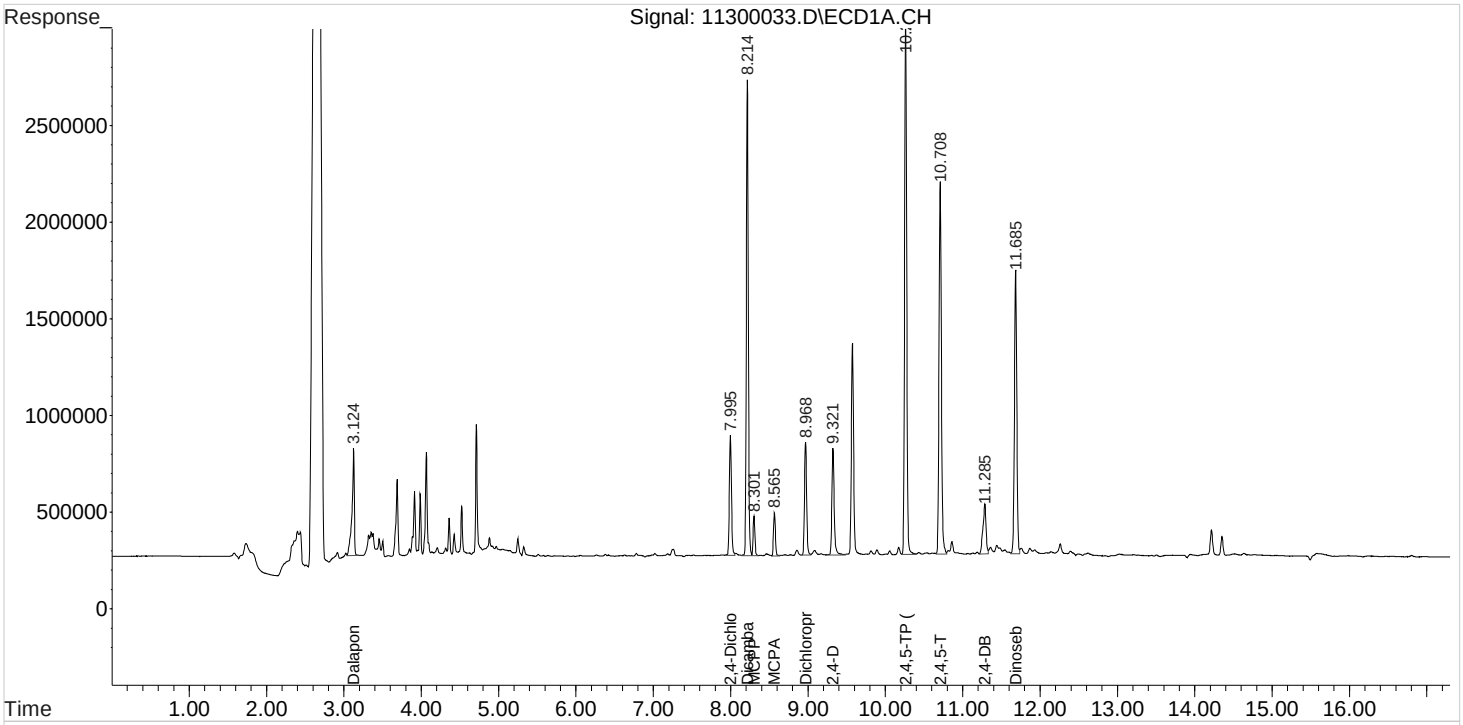
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

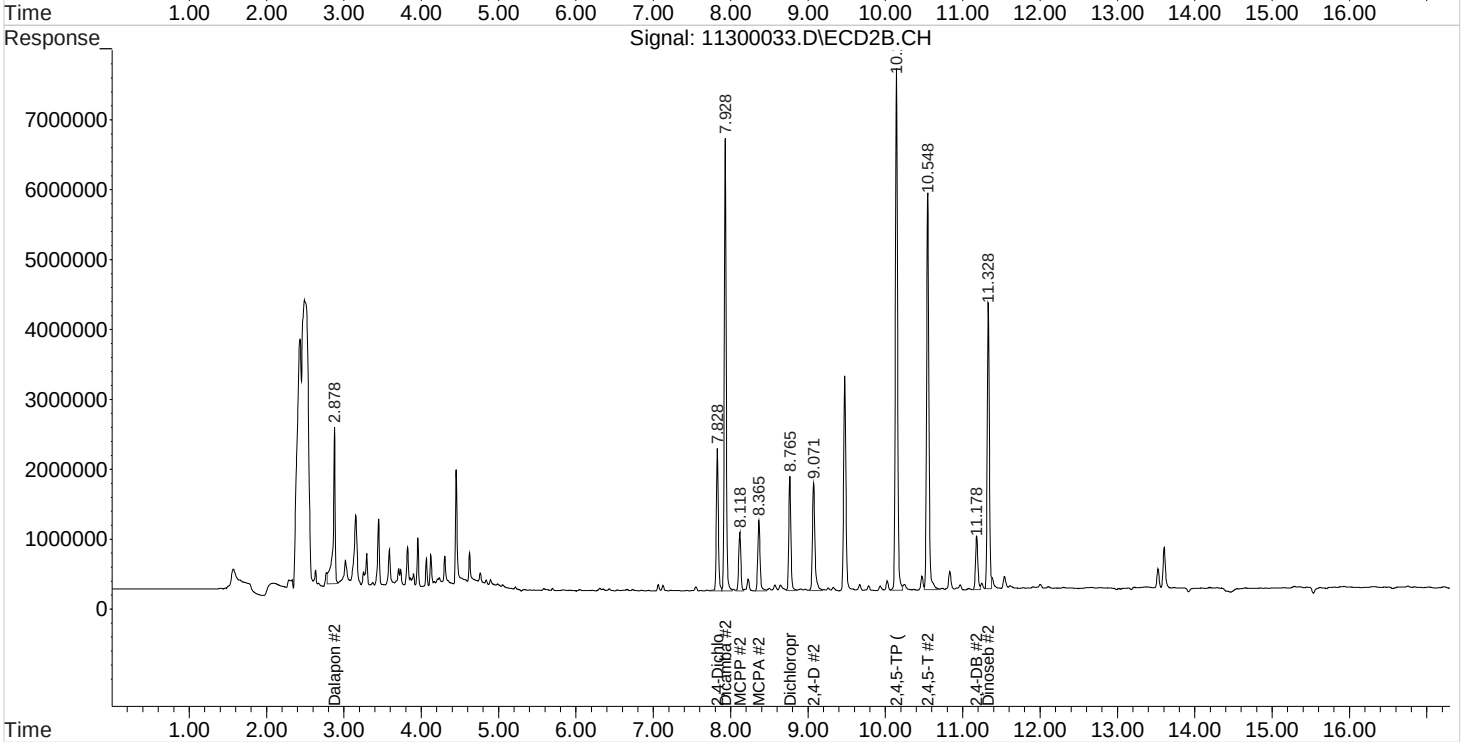
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300033.D Vial: 26
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 9:57 pm Operator: UA
Sample : KQ20107764-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:56 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 11/30/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300004.D\
Lab ID: KQ2019012-02
RunType: CCB
Matrix: Sediment

Date Acquired: 11/30/20 10:41:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 11/30/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300004.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 10:41:00	**Vial:**	20
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019012-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.01 +0.02	7.84 +0.02	7081	20272	0.389	0.479				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	10.26	10.14	4903	10644	0.052	0.052	0.087U	0.087U	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st SM 11/30/20
2nd 4W 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300004.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 10:41:00	**Vial:**	14
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019012-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	8.01 +0.02	7.84 +0.02	7081	20272	0.389	0.479				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	10.56 +0.02	0	9319	0.000CCV	0.049	0U	0.082U	4.0 U	Y
2,4,5-TP (Silvex)	10.26	10.14	4903	10644	0.052	0.052	0.087U	0.087U	2.4 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000CCV	0.000	0U	0U	5.4 U	Y
Dalapon	0.00	0.00	0	0	0.000	0.000CCV	0U	0U	5.5 U	Y
Dicamba	0.00	7.93 +0.01	0	8536	0.000	0.058CCV	0U	0.097U	4.3 U	Y
Dichlorprop	8.99 +0.03	0.00	4793	0	0.257	0.000CCV	0.43U	0U	3.4 U	Y
Dinoseb	11.68	11.33 +0.01	3204	12164	0.052	0.089	0.087U	0.15U	2.7 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000CCV	0U	0U	320 U	Y
MCPP	0.00	0.00	0	3597	0.000	0.000CCV	0U	0U	460 U	Y

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

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

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

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

Printed: 11/30/20 18:49
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300004.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 10:41 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:26:27 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	8.010	7.837	7081	20272	0.389	0.479	
		Target Compounds							
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d	
3)	m	Dicamba	0.000	7.934	0	8536	N.D. d	0.058	
4)	m	MCPP	0.000	8.140	0	3597	N.D. d	N.D.	
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D.	
6)	m	Dichloroprop	8.990	0.000	4793	0	0.257	N.D.	#
7)	m	2,4-D	0.000	0.000	0	0	N.D. d	N.D.	
8)	m	2,4,5-TP ...	10.263	10.144	4903	10644	0.052	0.052	
9)	m	2,4,5-T	0.000	10.560	0	9319	N.D. d	0.049	
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D.	
11)	m	Dinoseb	11.683	11.330	3204	12164	0.052	0.089	#

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

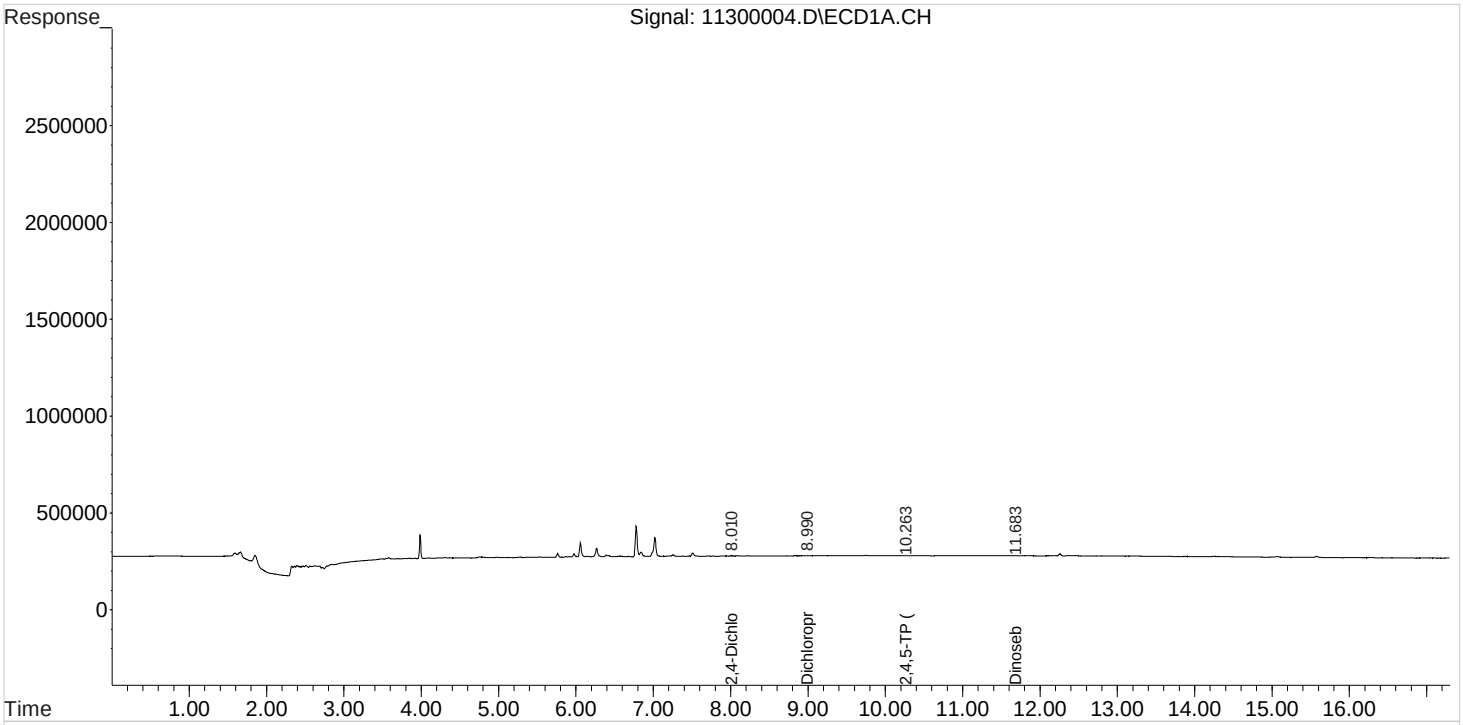
Quantitation Report (QT Reviewed)

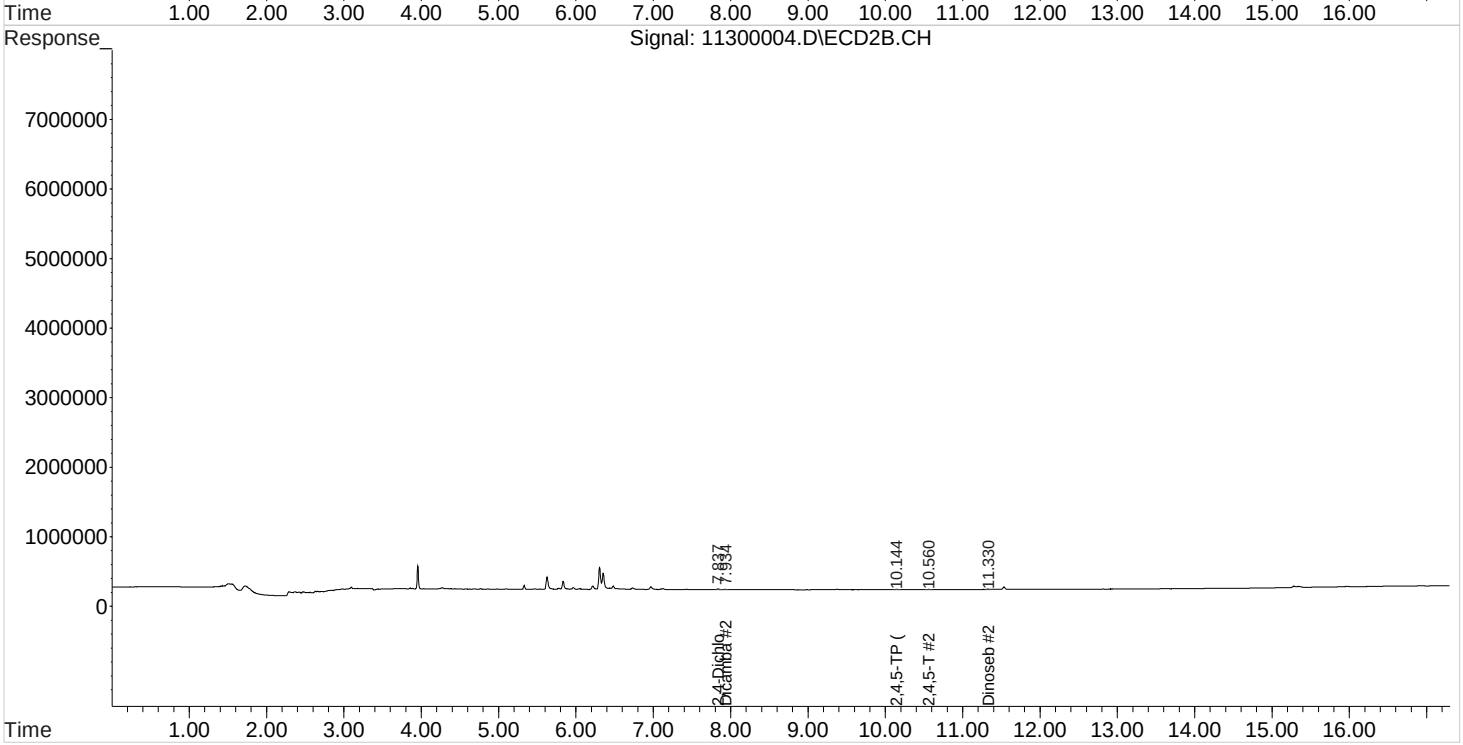
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300004.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 10:41 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:26:27 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 11/30/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300017.D\
Lab ID: KQ2019012-04
RunType: CCB
Matrix: Sediment

Date Acquired: 11/30/20 15:53:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 11/30/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300017.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 15:53:00	**Vial:**	18
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019012-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.01 +0.02	7.84 +0.01	8355	22110	0.459	0.523				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	10.26	10.14	3817	12570	0.041	0.062	0.068U	0.10U	2.4 U	Y
2,4-D	0.00	9.06 -0.01	0	12049	0.000	0.235	0U	0.39U	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300017.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 3:53 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:33:54 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	8.008	7.838	8355	22110	0.459	0.523	
		Target Compounds							
1)	m	Dalapon	0.000	2.842f	0	21246	N.D. d	0.440	
3)	m	Dicamba	8.222	7.932	2741	7907	0.039	0.053	#
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d	
5)	m	MCPA	0.000	0.000	0	0	N.D.	N.D. d	
6)	m	Dichloroprop	8.988	0.000	5792	0	0.311	N.D.	#
7)	m	2,4-D	0.000	9.058	0	12049	N.D. d	0.235	
8)	m	2,4,5-TP ...	10.262	10.142	3817	12570	0.041	0.062	#
9)	m	2,4,5-T	0.000	10.558	0	9244	N.D. d	0.048	
10)	m	2,4-DB	0.000	0.000	0	0	N.D.	N.D.	
11)	m	Dinoseb	11.682	11.332	3117	9033	0.050	0.066	#

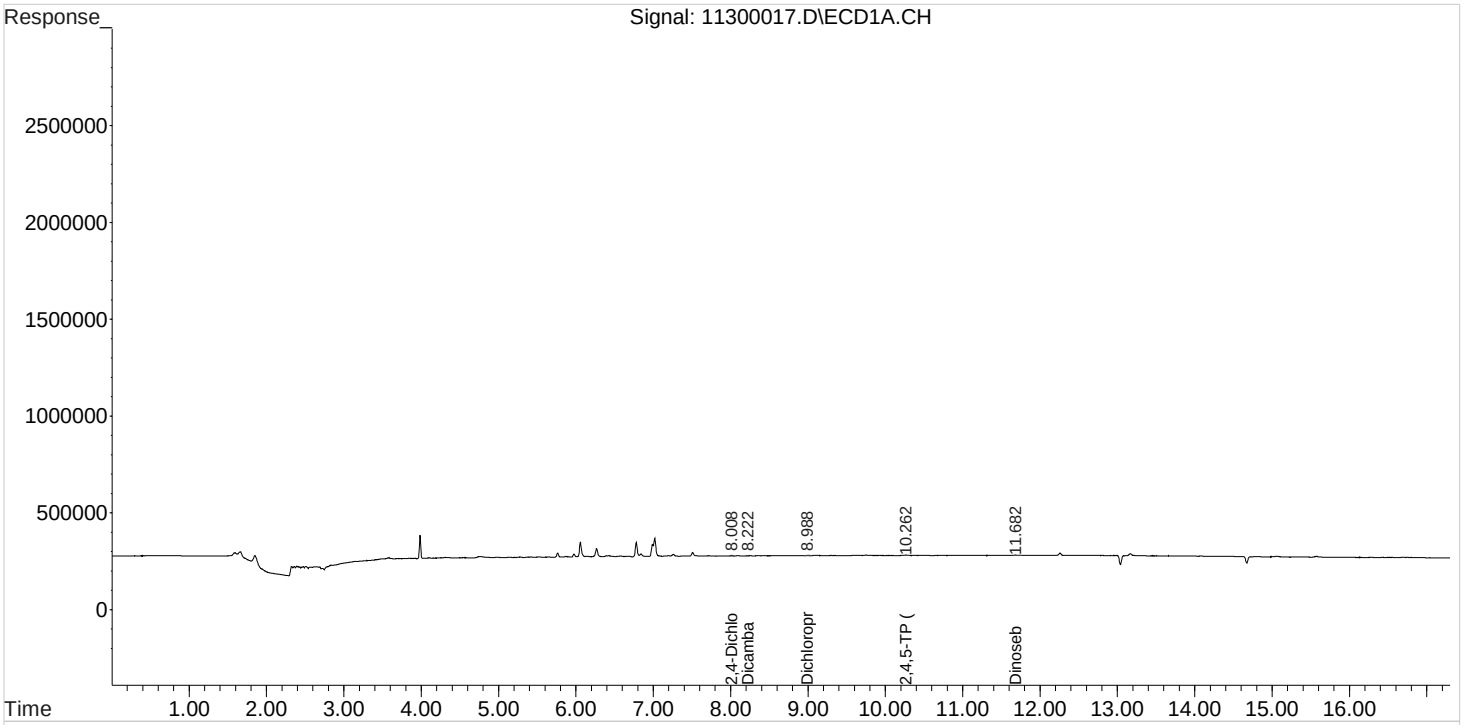
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

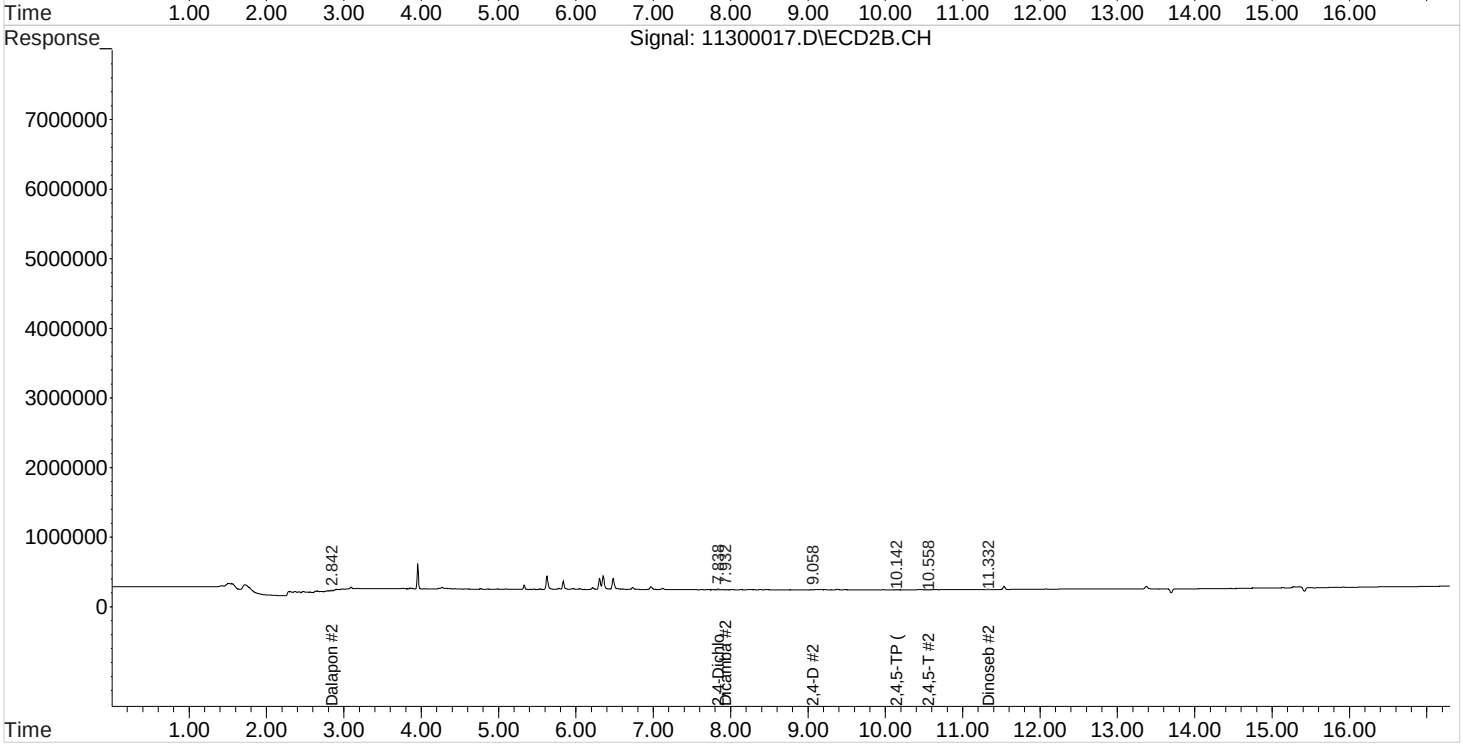
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300017.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 3:53 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:33:54 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st STM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300026.D\
Lab ID: KQ2019012-06
RunType: CCB
Matrix: Sediment

Date Acquired: 11/30/20 19:17:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300026.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 19:17:00	**Vial:**	10
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019012-06	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.01 +0.02	7.84 +0.02	9542	24805	0.524	0.586				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	10.27 +0.01	10.14	7424	14361	0.079	0.071	0.13U	0.12U	2.4 U	Y
2,4-D	0.00	9.05 -0.02	0	12936	0.000	0.253	0U	0.42U	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300026.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 7:17 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:12:36 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	8.010	7.837	9542	24805	0.524	0.586
	Target Compounds						
1) m	Dalapon	0.000	2.904f	0	47836	N.D. d	0.990
3) m	Dicamba	0.000	7.930	0	8603	N.D. d	0.058
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
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. d	N.D.
7) m	2,4-D	0.000	9.054	0	12936	N.D. d	0.253
8) m	2,4,5-TP ...	10.267	10.144	7424	14361	0.079	0.071
9) m	2,4,5-T	0.000	10.560	0	10665	N.D. d	0.056
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D.
11) m	Dinoseb	0.000	11.330	0	12317	N.D. d	0.090

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

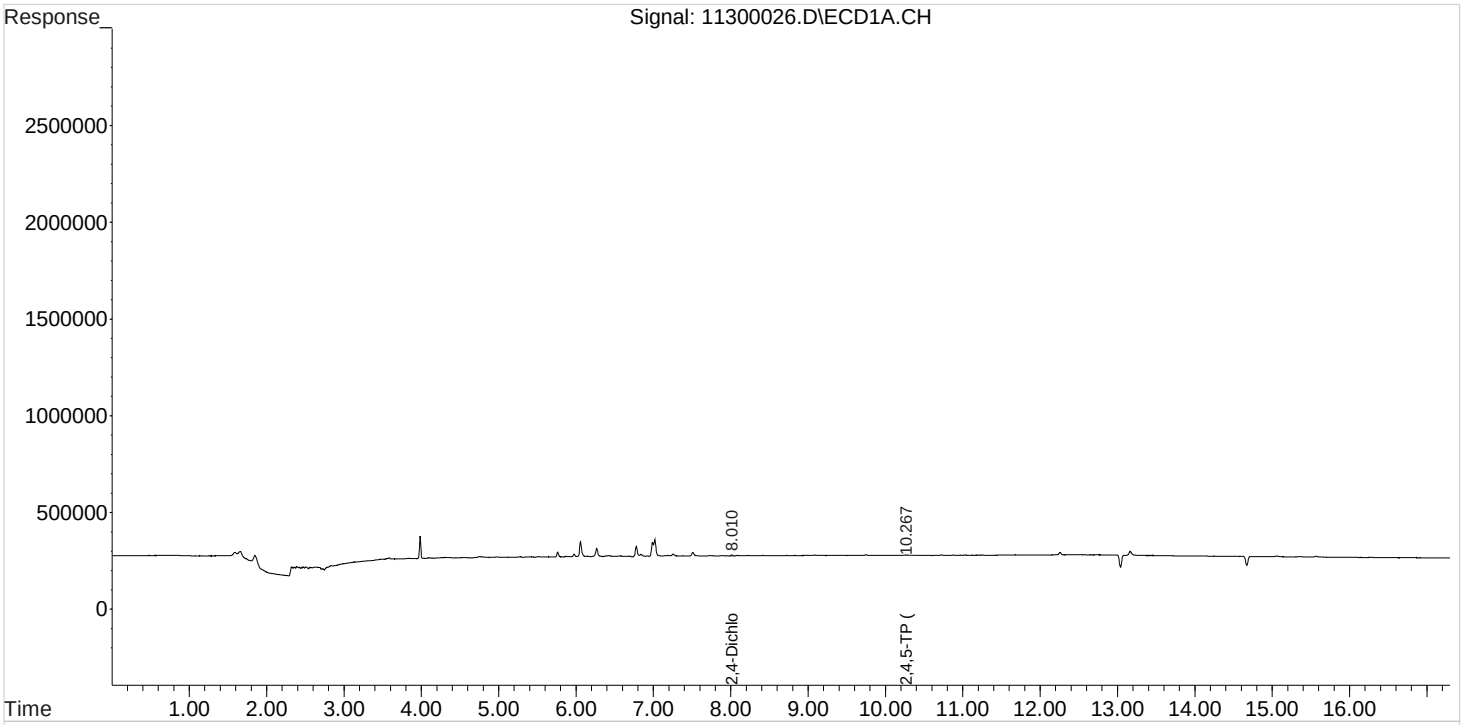
Quantitation Report (QT Reviewed)

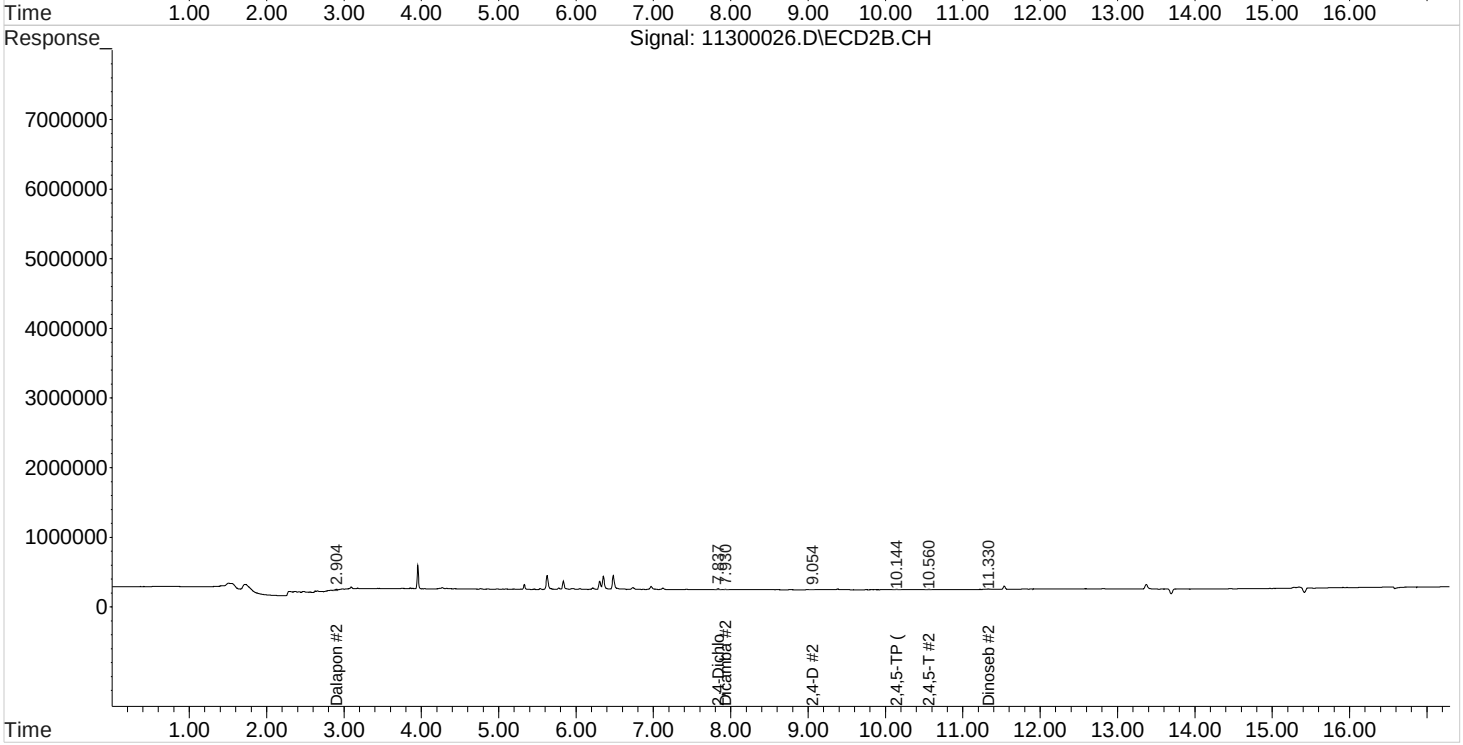
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300026.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 7:17 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:12:36 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300038.D\
Lab ID: KQ2019012-08
RunType: CCB
Matrix: Sediment

Date Acquired: 11/30/20 23:51:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300038.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 23:51:00	**Vial:**	8
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019012-08	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.01 +0.01	7.84 +0.01	6916	27989	0.380	0.662				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	10.27 +0.01	10.14	5035	11939	0.054	0.059	0.090U	0.098U	2.4 U	Y
2,4-D	0.00	9.05 -0.02	0	30003	0.000	0.586	0U	0.98U	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300038.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 11:51 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:14:53 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	8.012	7.839	6916	27989	0.380	0.662 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	8.215	7.932	5451	10645	0.078	0.072
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	8.998	0.000	3612	0	0.194	N.D. #
7)	m	2,4-D	0.000	9.052	0	30003	N.D. d	0.586
8)	m	2,4,5-TP ...	10.265	10.142	5035	11939	0.054	0.059
9)	m	2,4,5-T	10.722	10.562	3259	13013	0.039	0.068 #
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D.
11)	m	Dinoseb	11.682	11.329	3604	11765	0.058	0.086 #

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

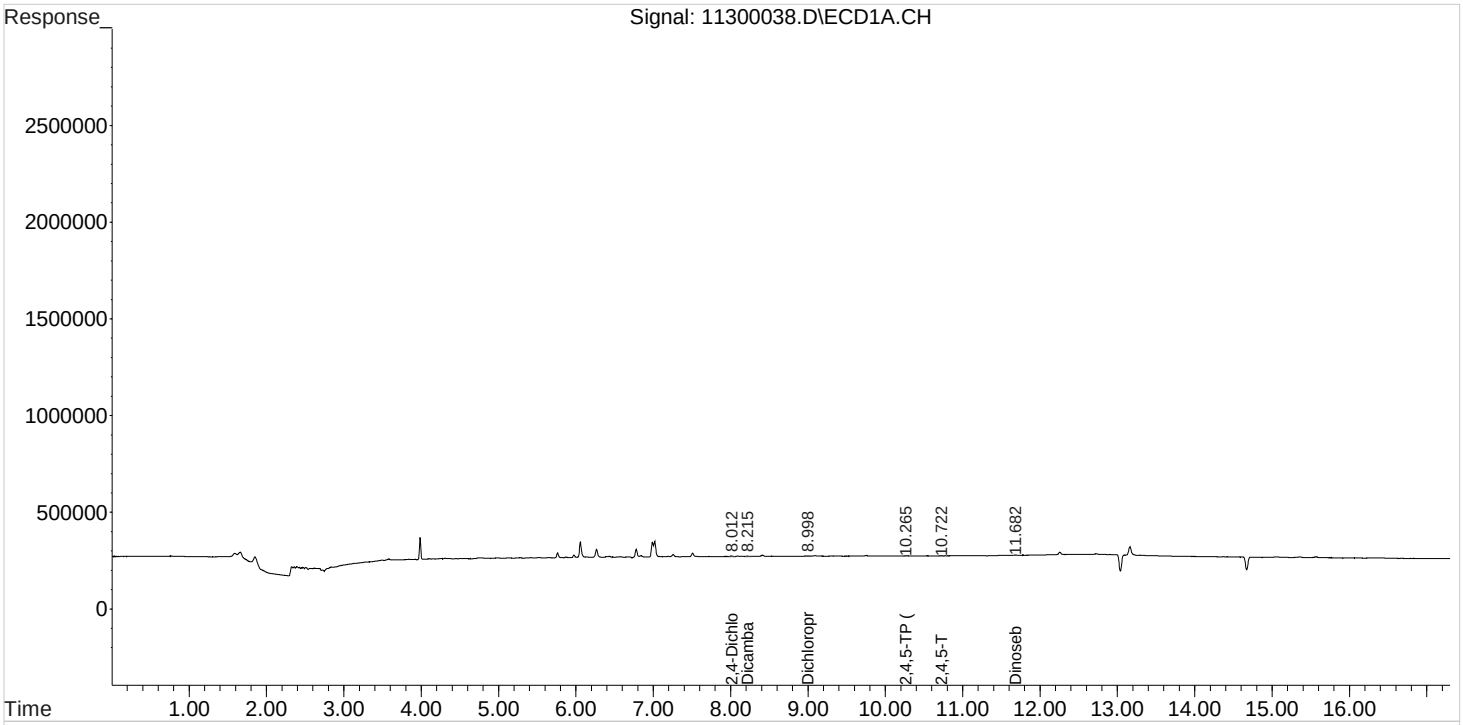
Quantitation Report (QT Reviewed)

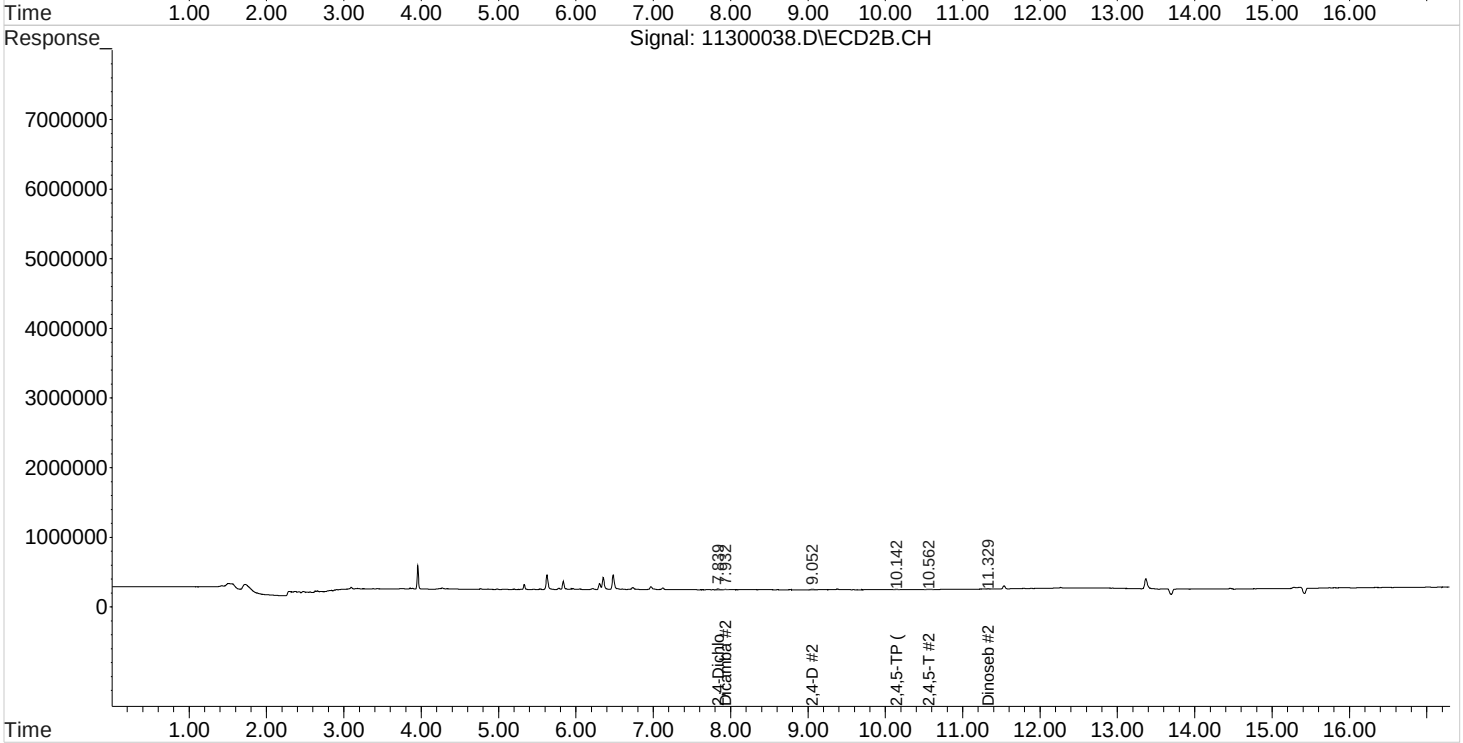
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300038.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 11:51 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:14:53 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st STM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300050.D\
Lab ID: KQ2019012-10
RunType: CCB
Matrix: Sediment

Date Acquired: 12/1/20 04:25:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd JW 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300050.D\	**Instrument:**	K-GC-24
Acqu Date:	12/1/20 04:25:00	**Vial:**	6
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019012-10	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.01 +0.02	7.84 +0.01	6154	32083	0.338	0.759				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	10.26	10.15 +0.01	4174	13528	0.045	0.067	0.075U	0.11U	2.4 U	Y
2,4-D	0.00	9.06 -0.01	0	43352	0.000	0.847	0U	1.4U	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st STM 12/01/20
2nd 4W 12/02/20

Data File : J:\gc24\data\113020\11300050.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 4:25 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 13:17:48 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	8.009	7.839	6154	32083	0.338	0.759 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	0.000	9.059	0	43352	N.D. d	0.847
8)	m	2,4,5-TP ...	10.262	10.146	4174	13528	0.045	0.067 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

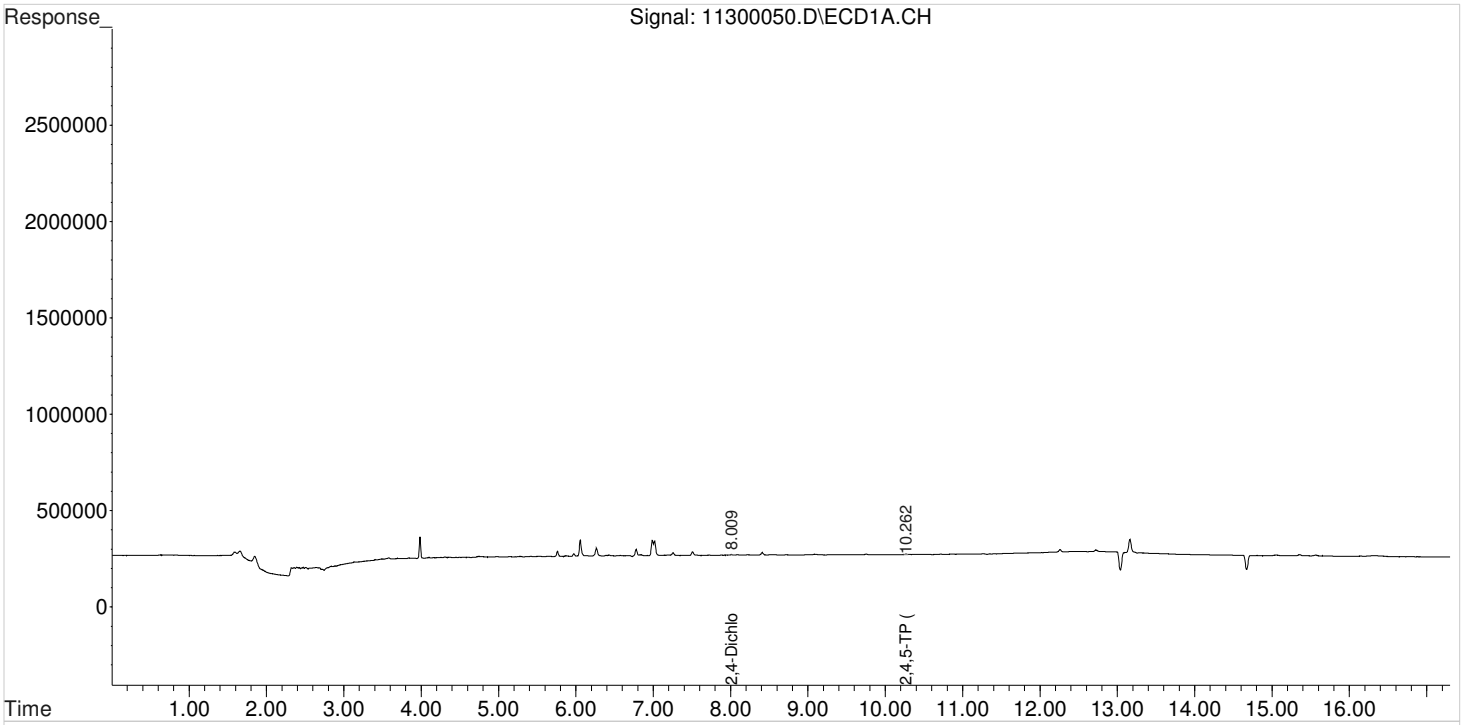
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

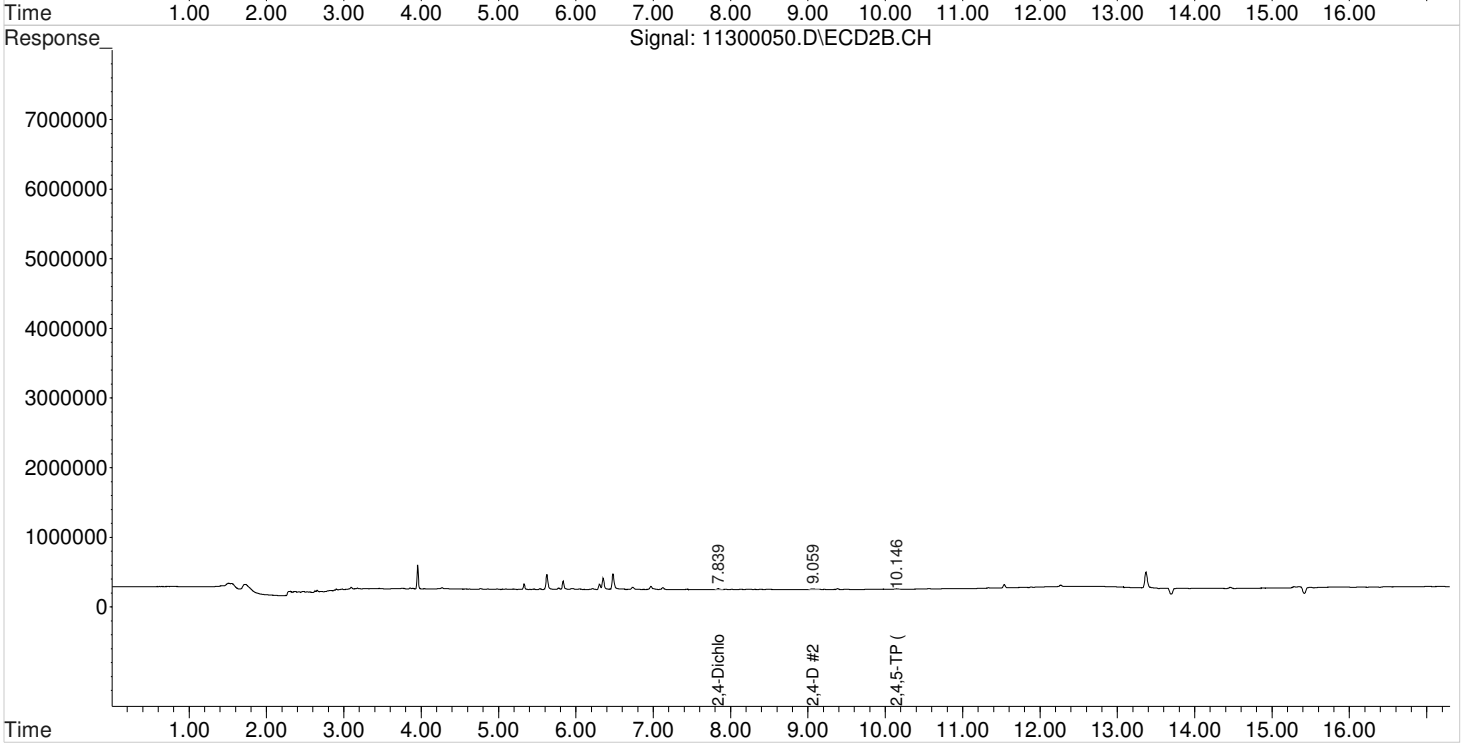
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300050.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 4:25 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 13:17:48 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st 12/01/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300061.D\
Lab ID: KQ2019012-12
RunType: CCB
Matrix: Sediment

Date Acquired: 12/1/20 08:36:00
Batch ID: 705301
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: _____

Secondary Review: _____

1st 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300061.D\	**Instrument:**	K-GC-24
Acqu Date:	12/1/20 08:36:00	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019012-12	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.01 +0.01	7.84 +0.01	5997	29040	0.330	0.687				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	10.27 +0.01	10.15 +0.01	4735	17190	0.051	0.085	0.085U	0.14U	2.4 U	Y
2,4-D	0.00	9.05 -0.02	0	71405	0.000	1.395	0U	2.3U	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300061.D\	**Instrument:**	K-GC-24
Acqu Date:	12/1/20 08:36:00	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019012-12	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	8.01 +0.01	7.84 +0.01	5997	29040	0.330	0.687				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0U	0U	4.0 U	Y
2,4,5-TP (Silvex)	10.27 +0.01	10.15 +0.01	4735	17190	0.051	0.085	0.085U	0.14U	2.4 U	Y
2,4-D	0.00	9.05 -0.02	0	71405	0.000	1.395	0U	2.3U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	5.4 U	Y
Dalapon	0.00	0.00	0	0	0.000	0.000	0U	0U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0U	0U	4.3 U	Y
Dichlorprop	0.00	0.00	0	0	0.000	0.000	0U	0U	3.4 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	2.7 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000	0U	0U	320 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	460 U	Y

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

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

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

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

Printed: 12/1/20 13:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300061.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 8:36 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 12:57:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	8.014	7.841	5997	29040	0.330	0.687 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	0.000	9.051	0	71405	N.D.	1.395 #
8)	m	2,4,5-TP ...	10.271	10.148	4735	17190	0.051m	0.085 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

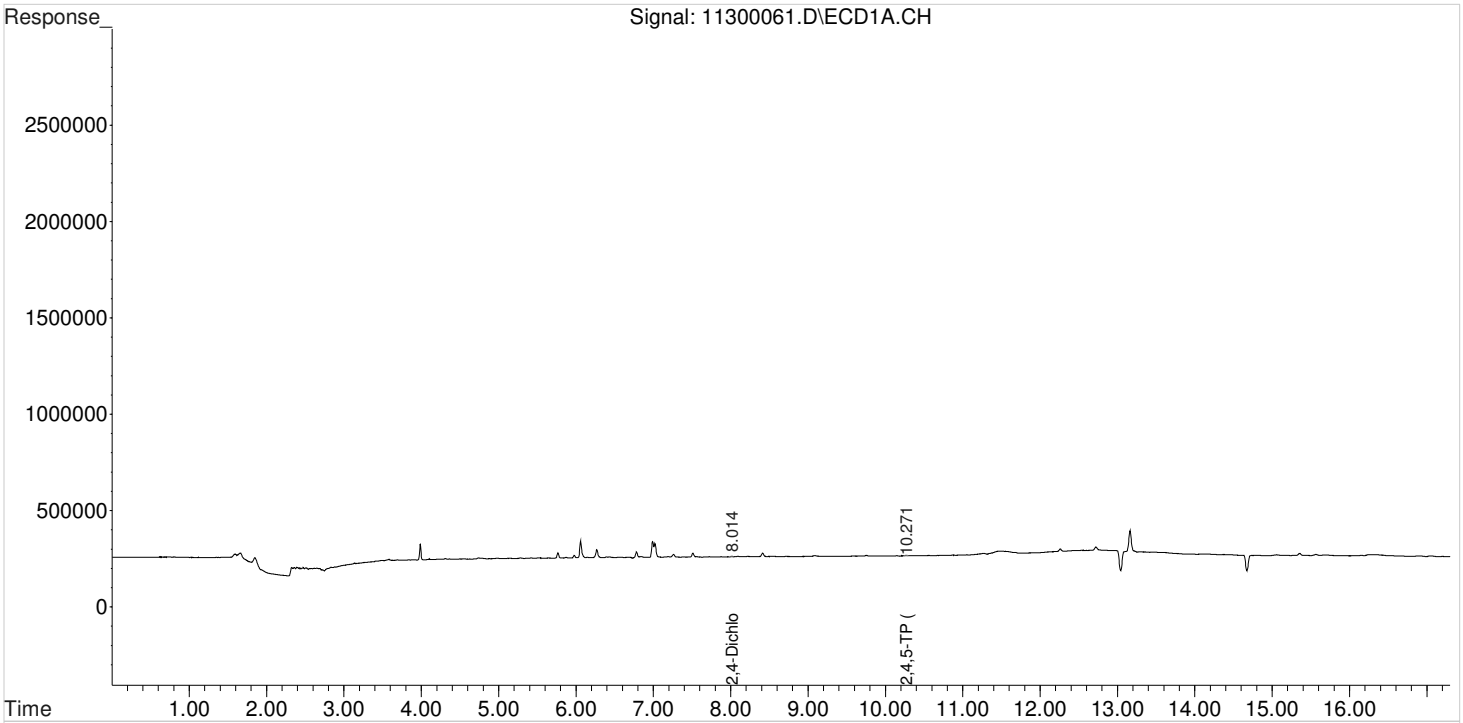
Quantitation Report (QT Reviewed)

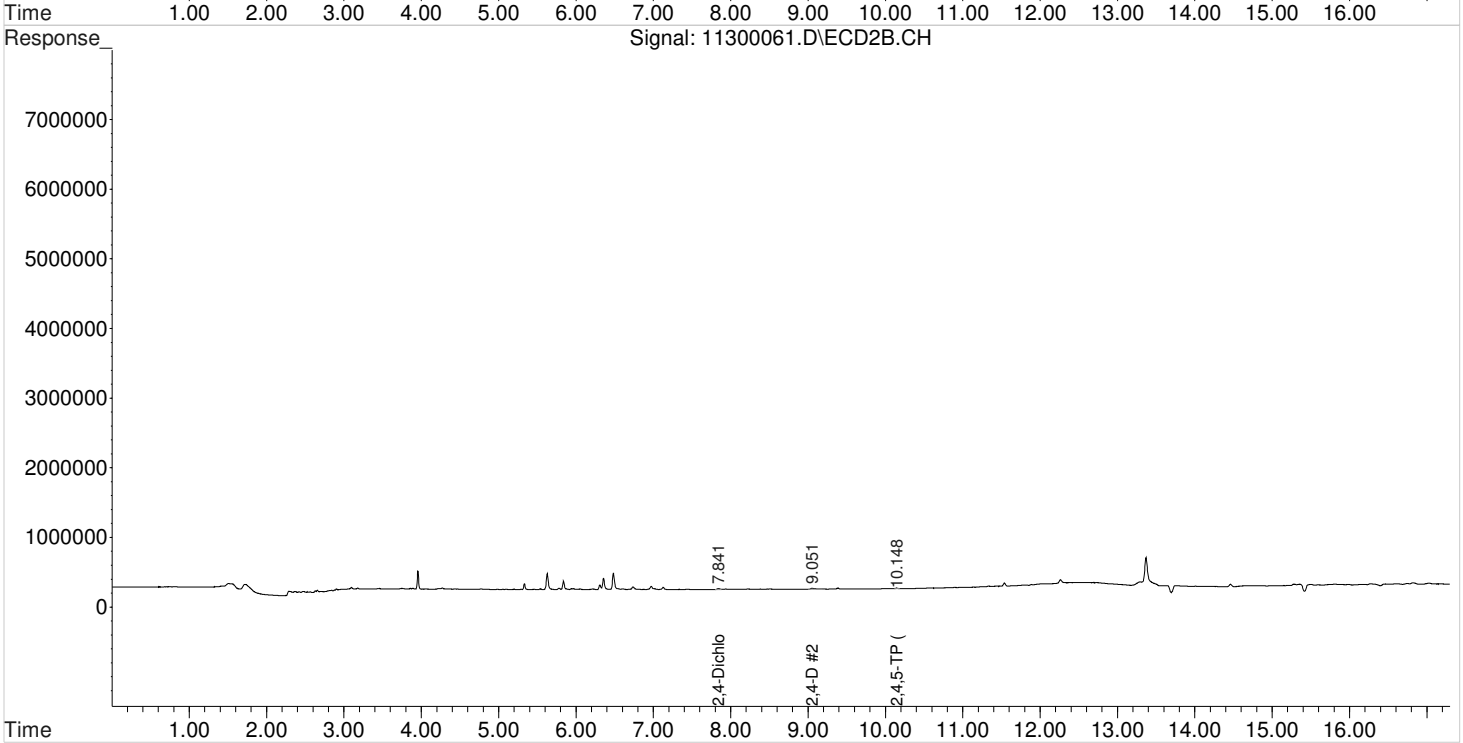
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300061.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 8:36 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 12:57:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



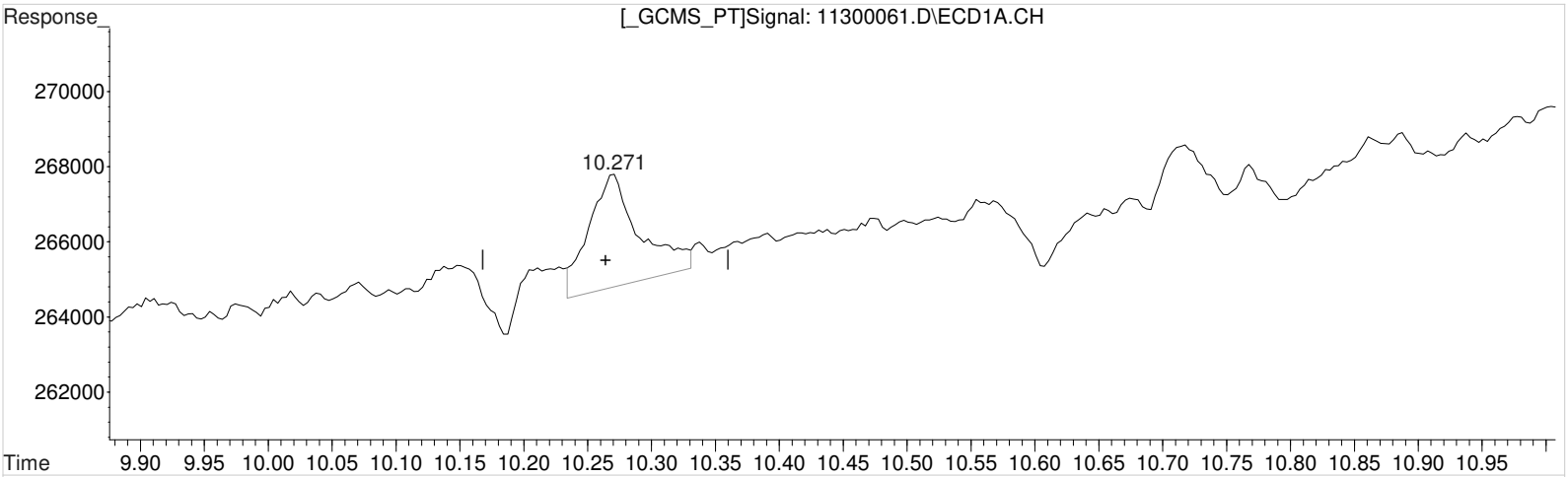


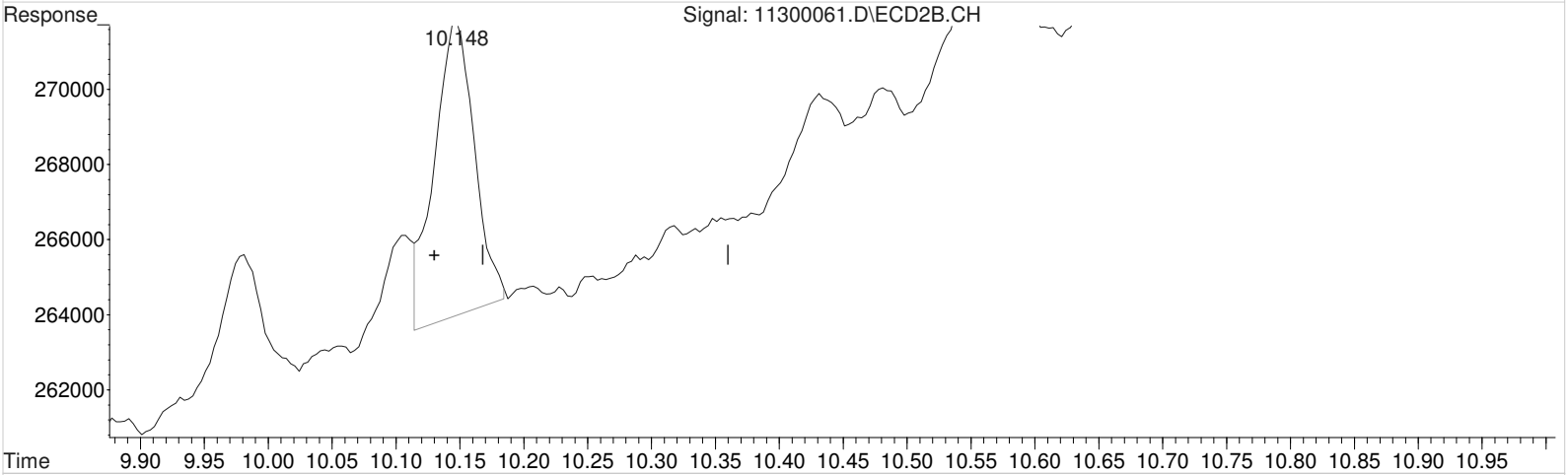
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300061.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 8:36 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:35 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.271min 0.089 ppb

response 8344

Manual Integration:

Before

12/01/20

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

10.148min 0.085 ppb

response 17190

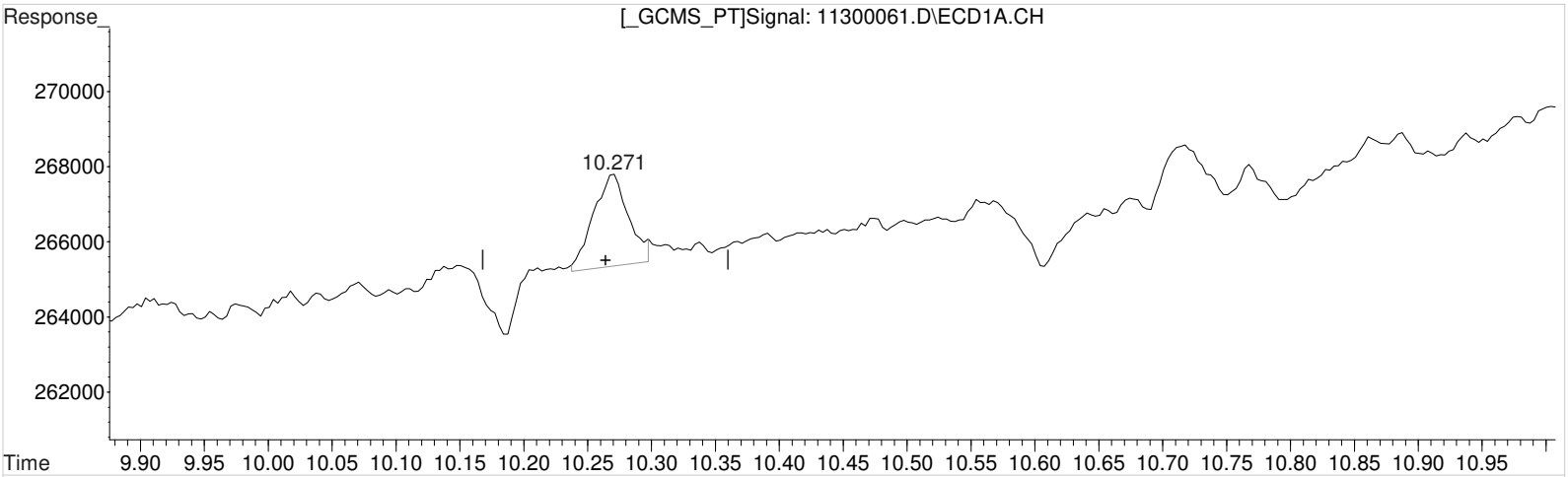
(+) = Expected Retention Time

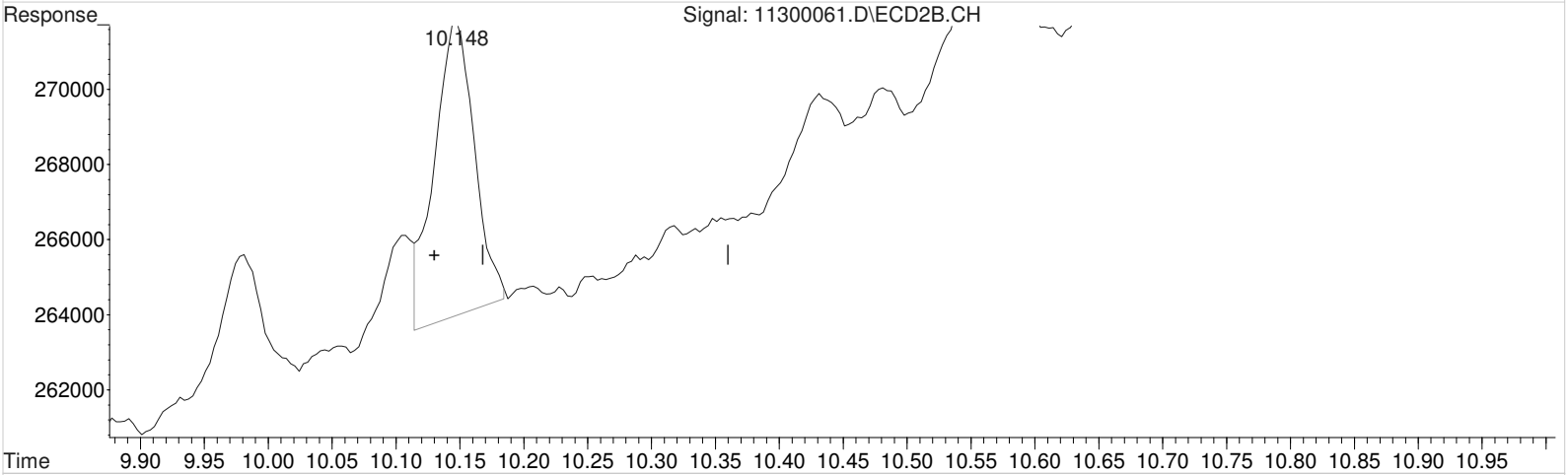
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300061.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 8:36 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:35 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.271min 0.051 ppb m

response 4735

Manual Integration:

After

Baseline/Shoulder

12/01/20

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

10.148min 0.085 ppb

response 17190

(+) = Expected Retention Time

1st 12/01/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300065.D\
Lab ID: KQ2019012-14
RunType: CCB
Matrix: Sediment

Date Acquired: 12/1/20 10:07:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300065.D\	**Instrument:**	K-GC-24
Acqu Date:	12/1/20 10:07:00	**Vial:**	4
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019012-14	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.01 +0.01	7.84 +0.01	8396	26049	0.461	0.616				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	10.27 +0.01	10.15 +0.01	4308	19027	0.046	0.094	0.077U	0.16U	2.4 U	Y
2,4-D	9.30 -0.02	9.06 -0.01	1429	65609	0.067	1.281	0.11U	2.1U	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st 12/01/20
2nd 12/02/20

1st 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300065.D\	**Instrument:**	K-GC-24
Acqu Date:	12/1/20 10:07:00	**Vial:**	4
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019012-14	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	8.01 +0.01	7.84 +0.01	8396	26049	0.461	0.616				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0U	0U	4.0 U	Y
2,4,5-TP (Silvex)	10.27 +0.01	10.15 +0.01	4308	19027	0.046	0.094	0.077U	0.16U	2.4 U	Y
2,4-D	9.30 -0.02	9.06 -0.01	1429	65609	0.067	1.281	0.11U	2.1U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	5.4 U	Y
Dalapon	0.00	0.00	0	0	0.000	0.000	0U	0U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0U	0U	4.3 U	Y
Dichlorprop	0.00	0.00	0	0	0.000	0.000	0U	0U	3.4 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	2.7 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000	0U	0U	320 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	460 U	Y

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

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

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

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

Printed: 12/1/20 13:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st 12/01/20

2nd 12/02/20

Quantitation Report (QT Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300065.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 10:07 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 13:11:37 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	8.012	7.843f	8396	26049	0.461	0.616m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.303	9.059	1429	65609	0.067m	1.281 #
8)	m	2,4,5-TP ...	10.273	10.149	4308	19027	0.046m	0.094 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

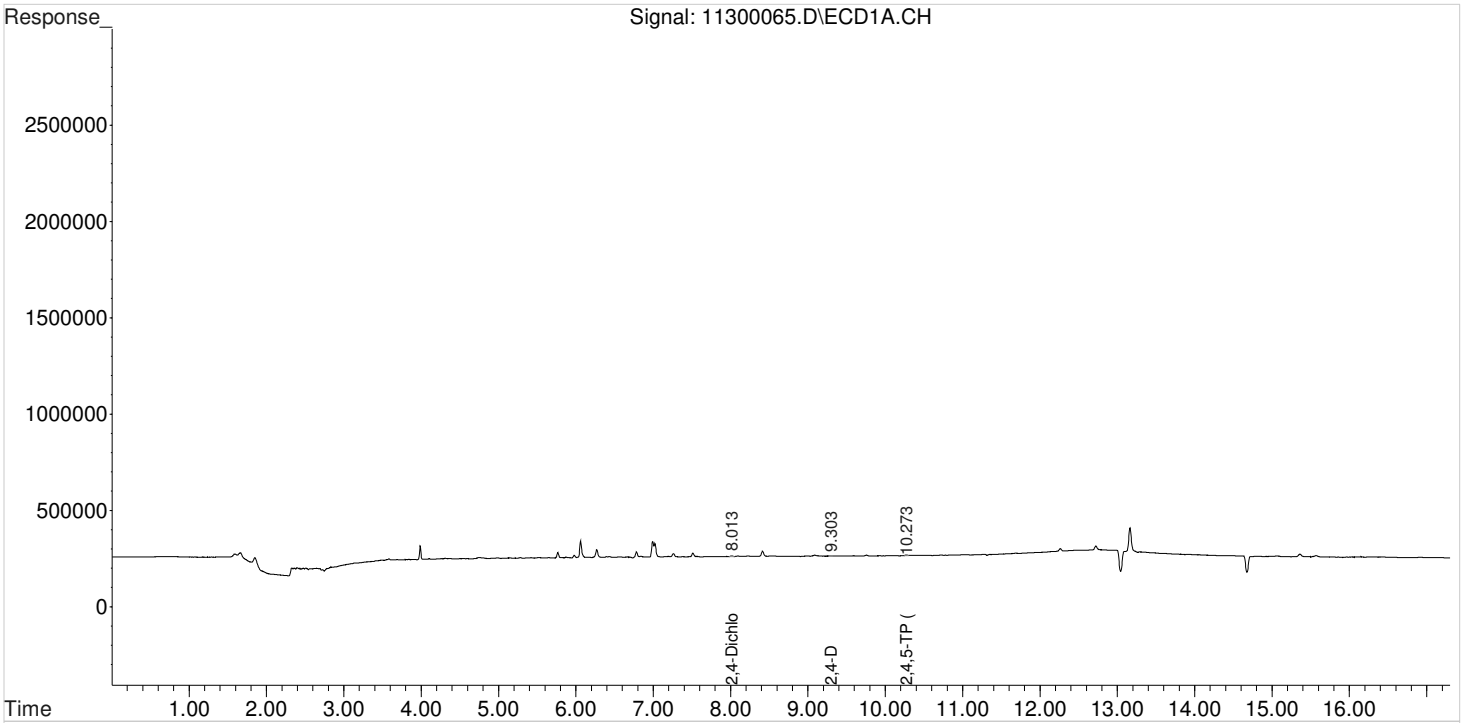
Quantitation Report (QT Reviewed)

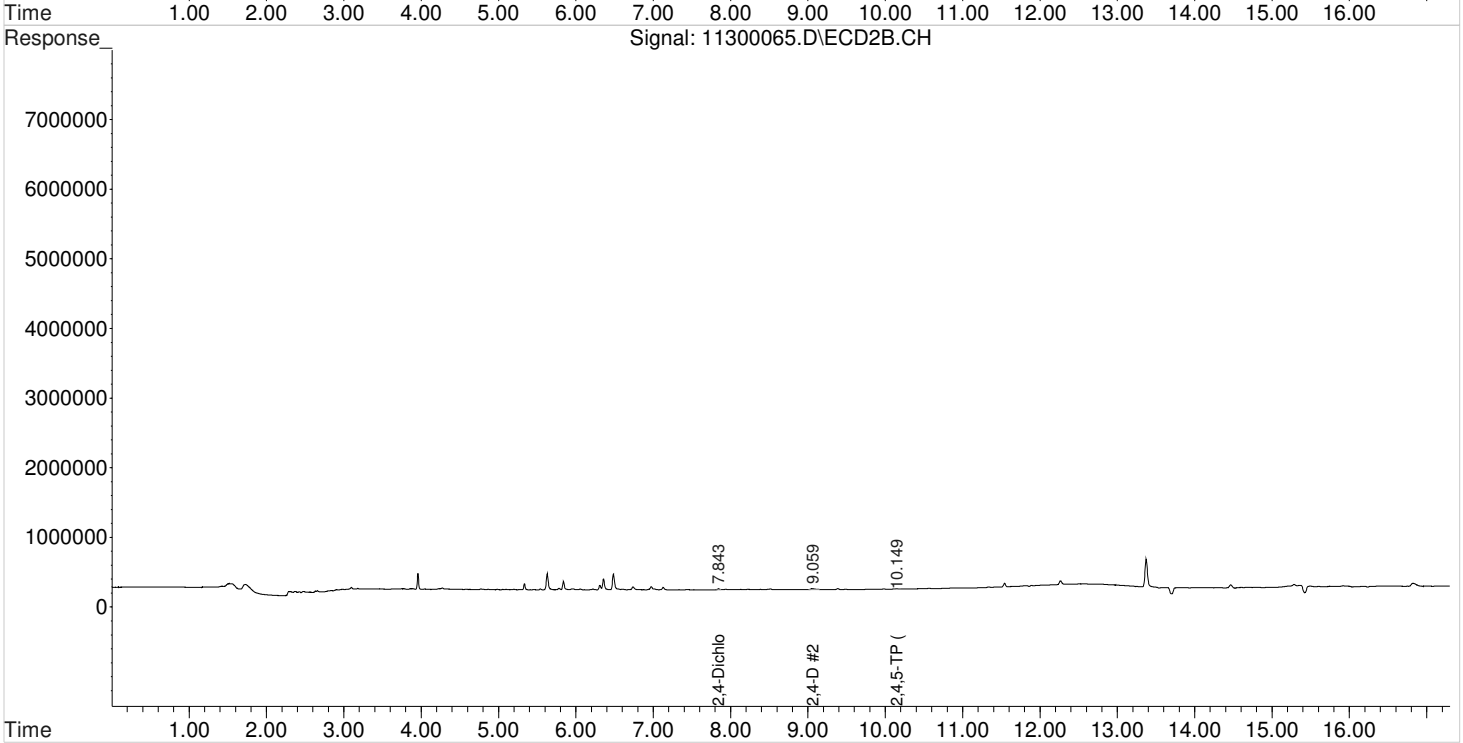
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300065.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 10:07 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 13:11:37 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



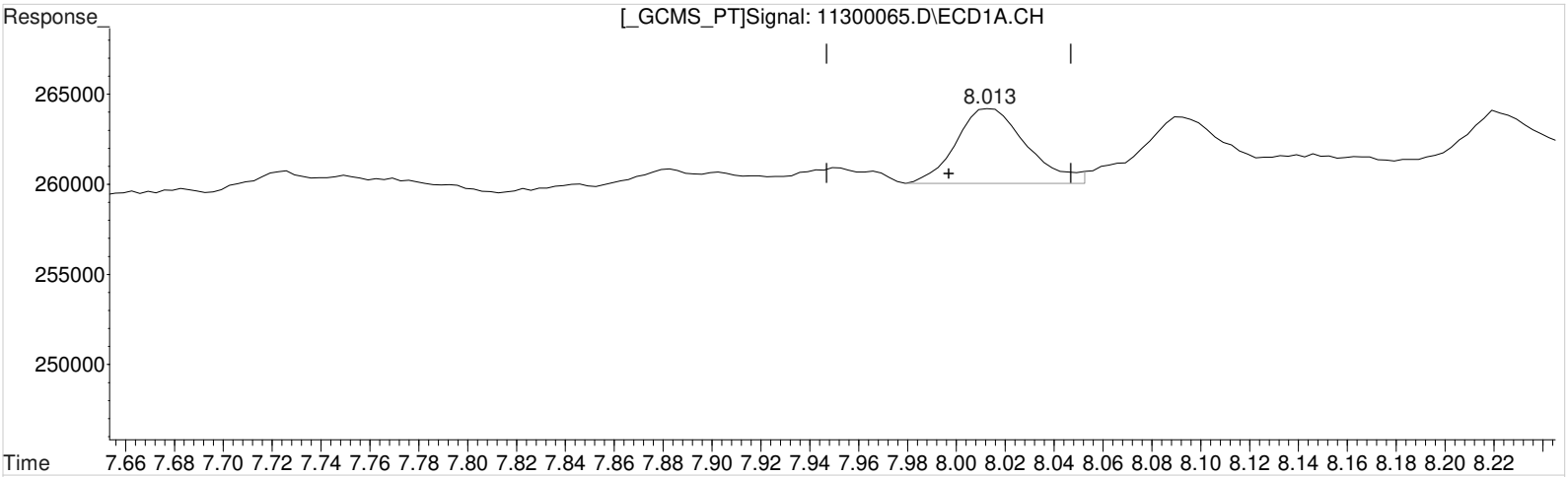


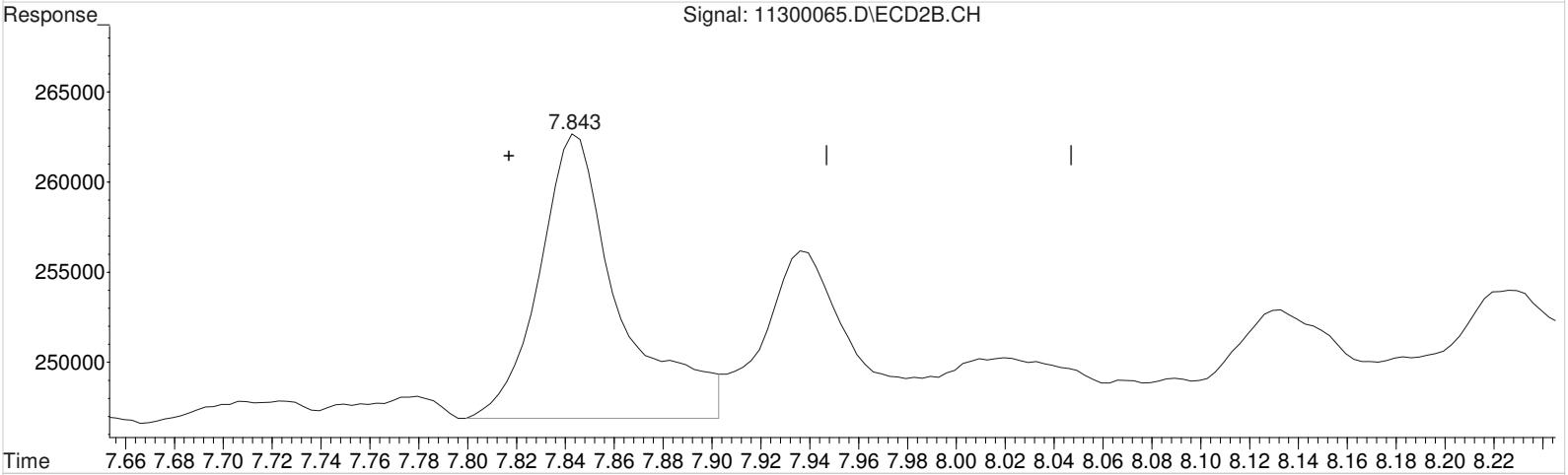
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300065.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 10:07 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

8.012min 0.461 ppb

response 8396

Manual Integration:

Before

12/01/20

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

7.843min 0.851 ppb

response 35989

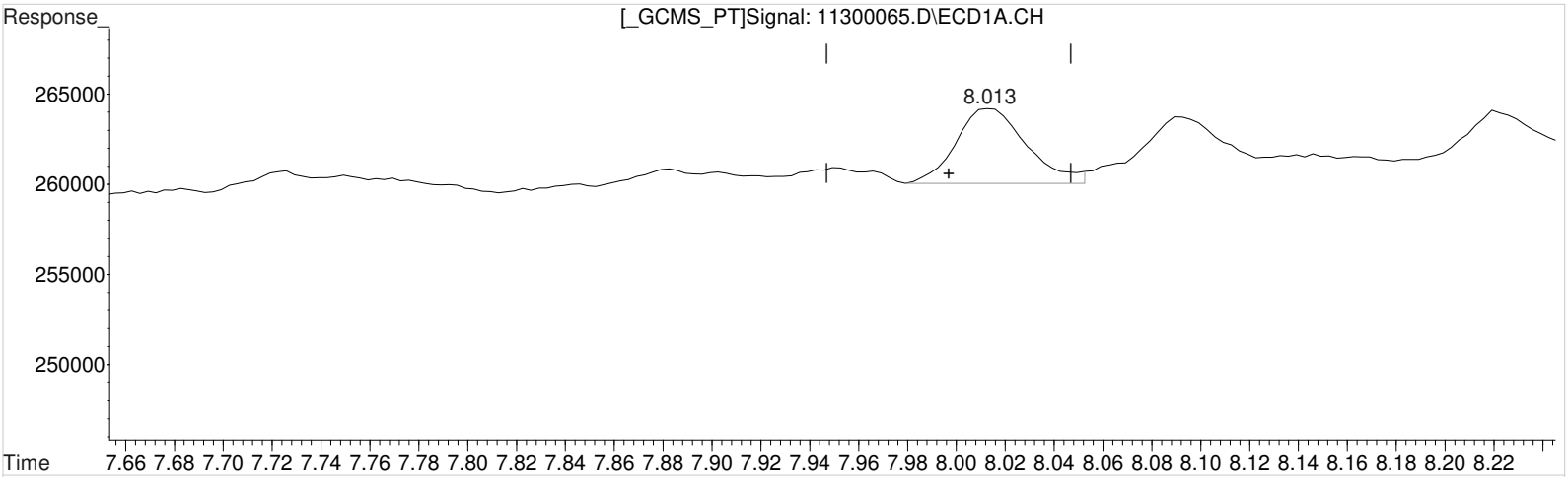
(+) = Expected Retention Time

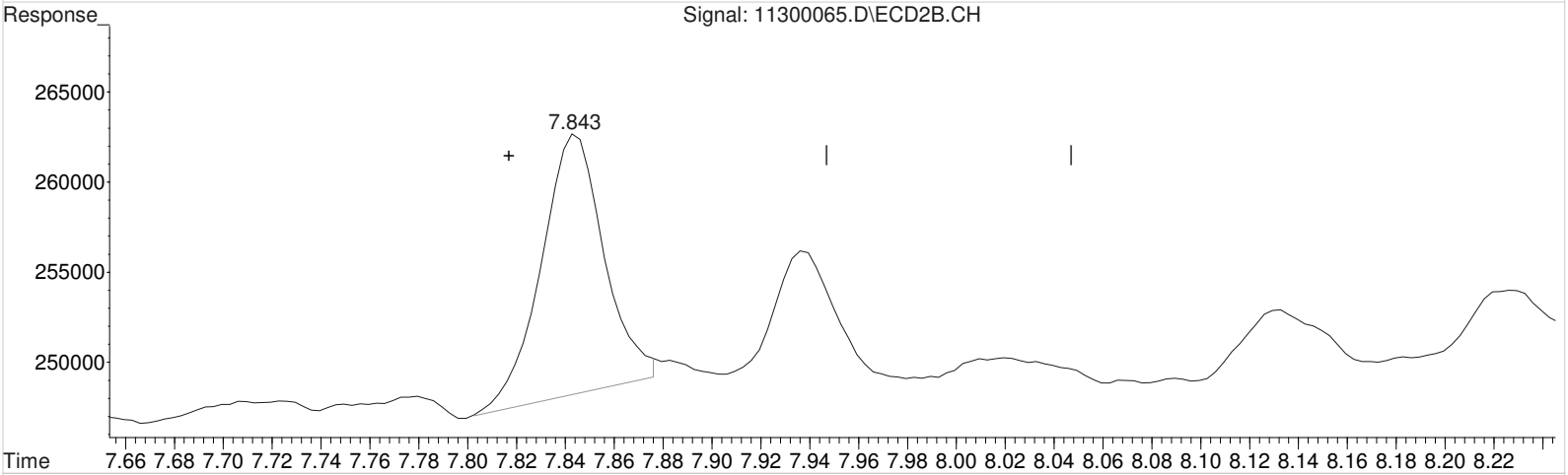
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300065.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 10:07 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

8.012min 0.461 ppb

response 8396

Manual Integration:

After

Baseline/Shoulder

12/01/20

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

7.843min 0.616 ppb m

response 26049

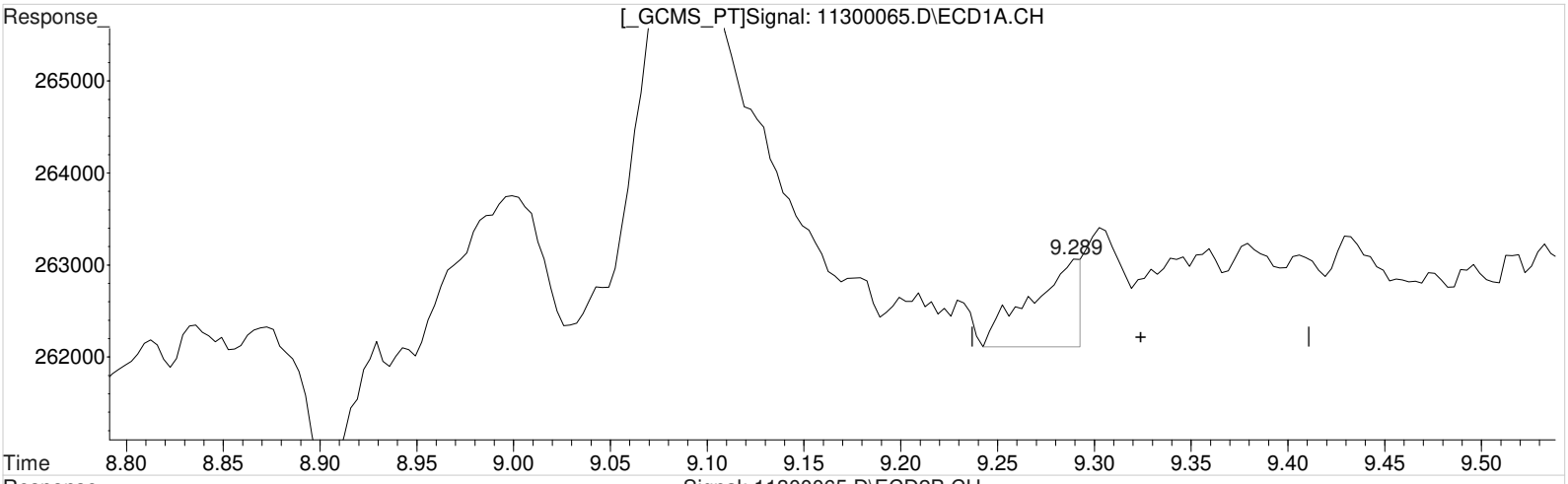
(+) = Expected Retention Time

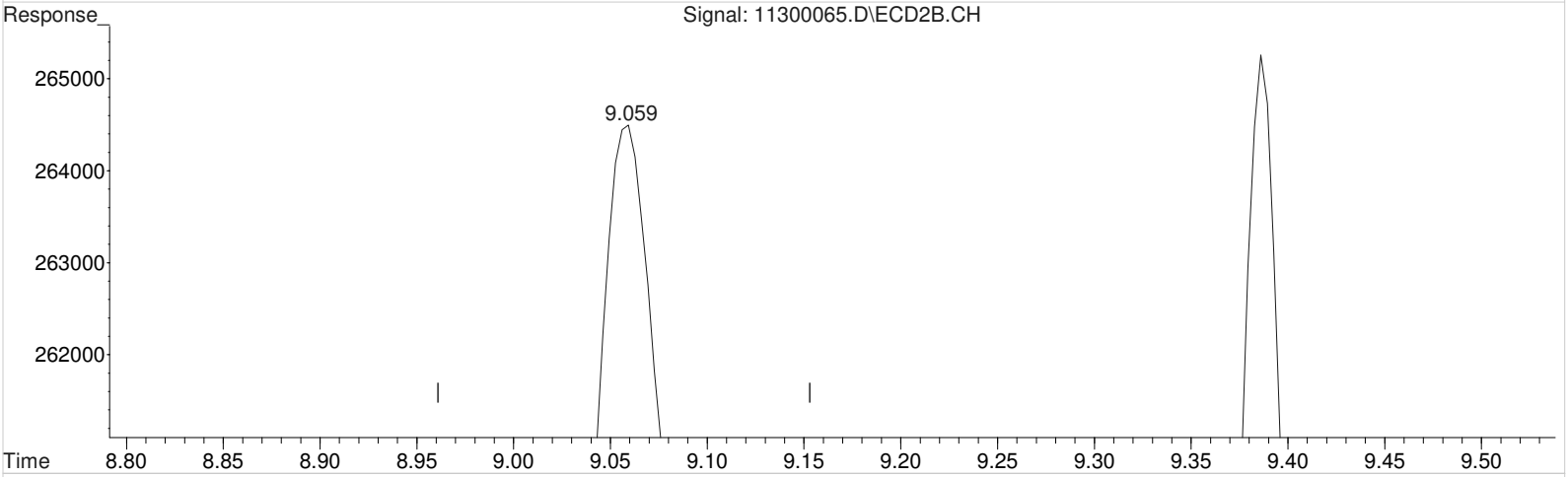
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300065.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 10:07 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.289min 0.080 ppb

response 1706

Manual Integration:

Before

12/01/20

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

9.059min 1.281 ppb

response 65609

(+) = Expected Retention Time

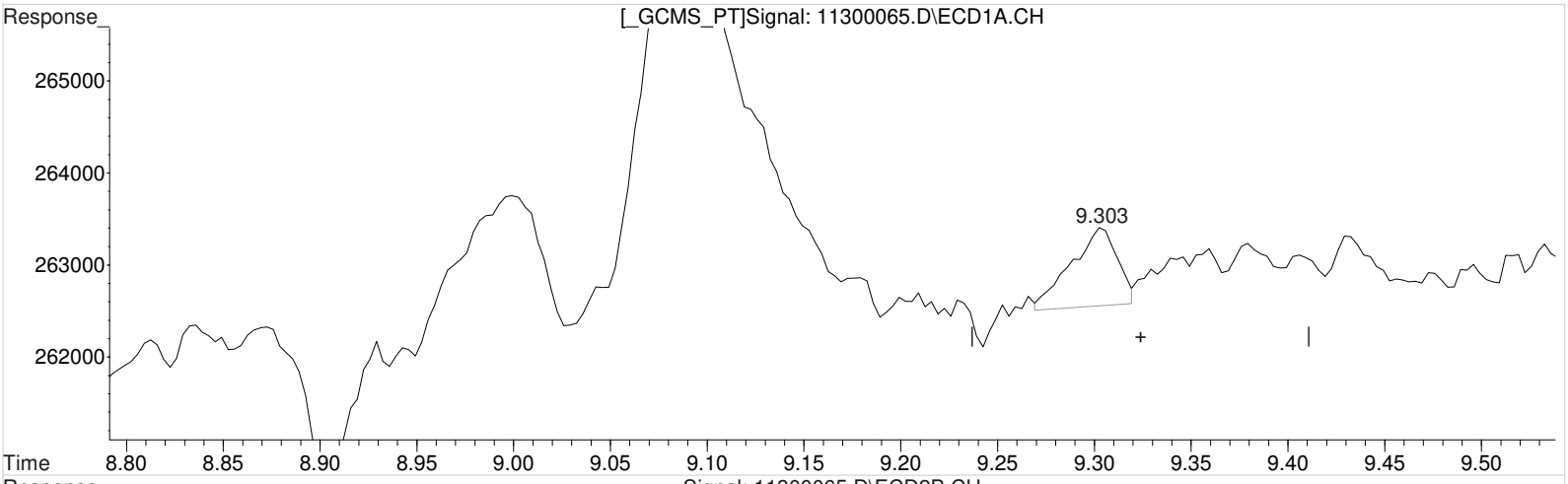
Quantitation Report (Qedit)

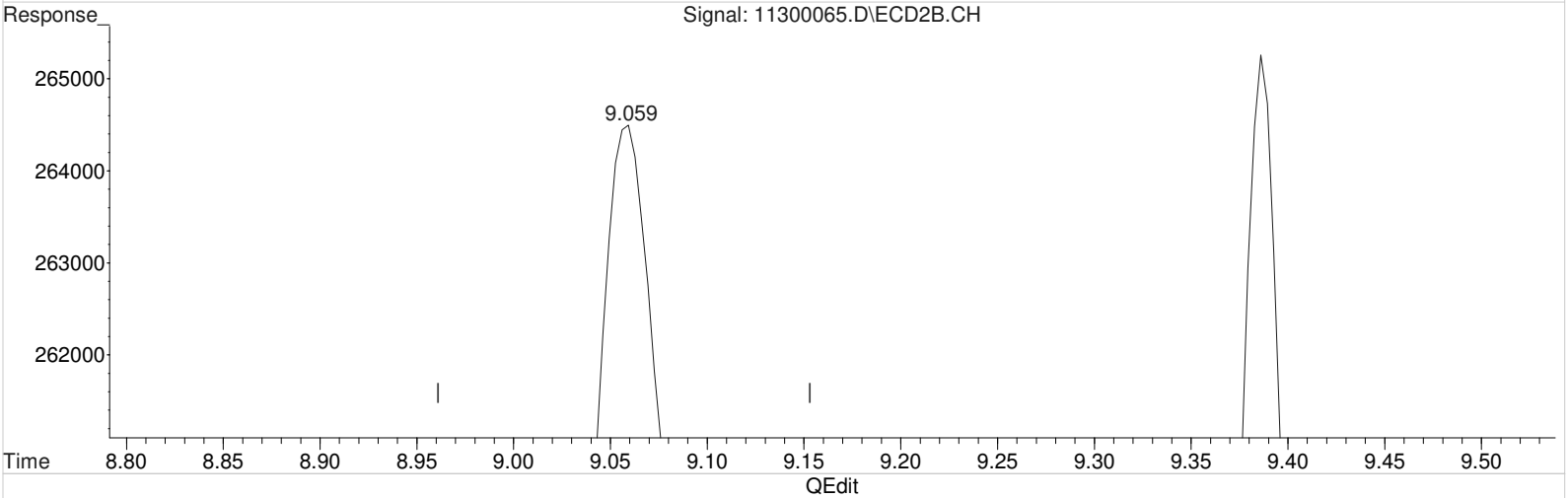
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300065.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 10:07 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.303min 0.067 ppb m

response 1429

Manual Integration:

After

Wrong Peak

12/01/20

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

9.059min 1.281 ppb

response 65609

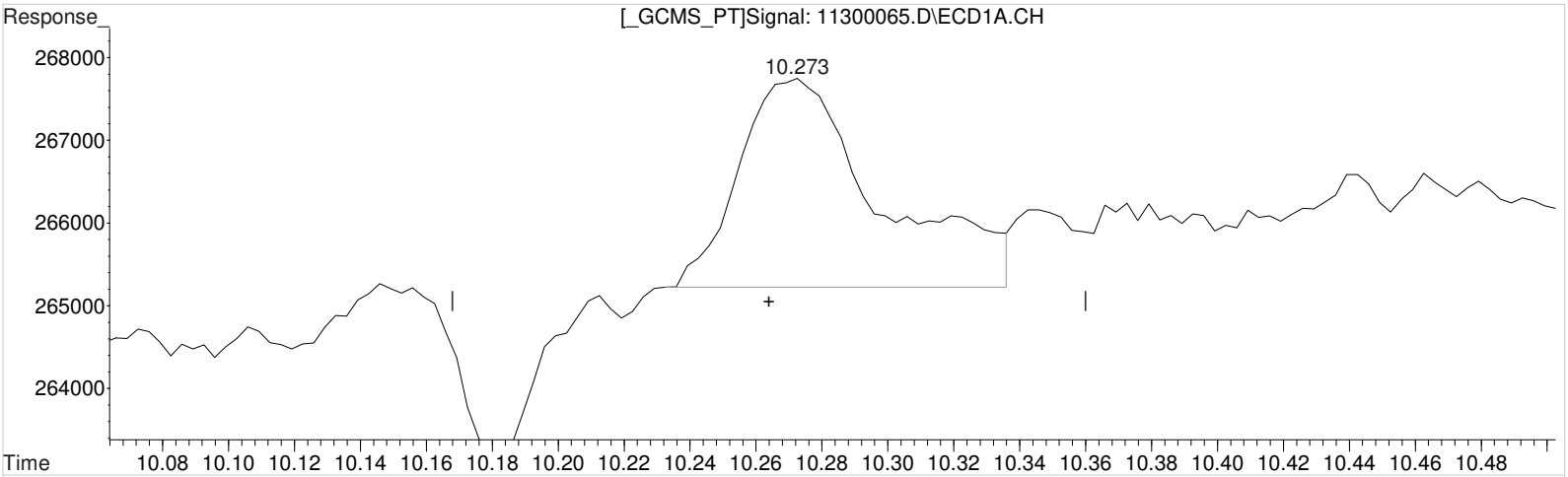
(+) = Expected Retention Time

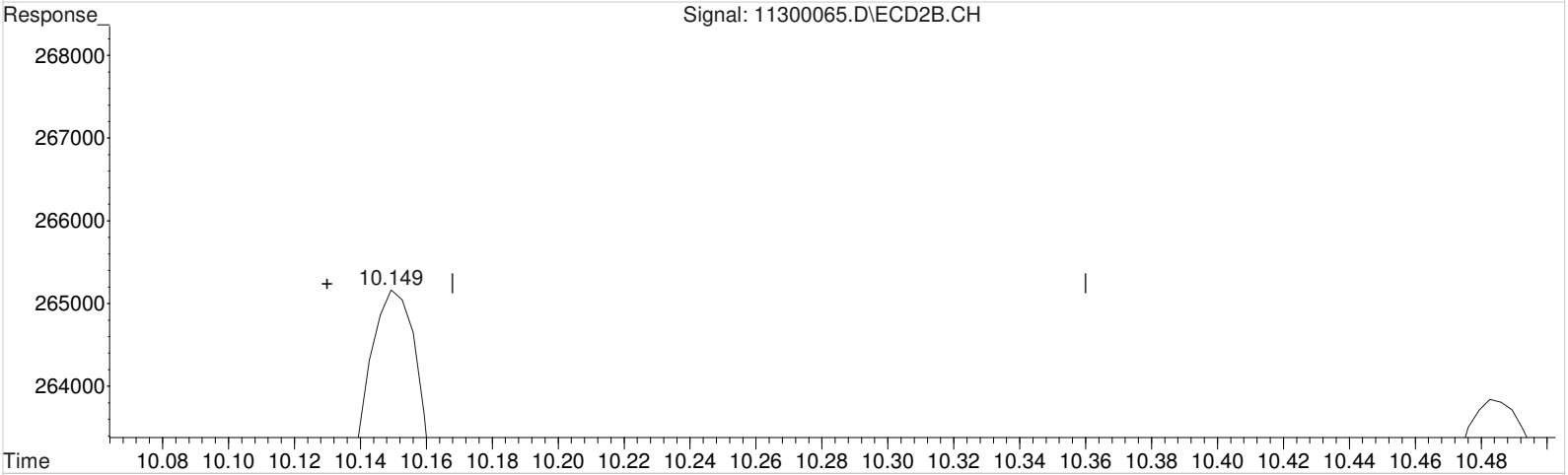
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300065.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 10:07 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.273min 0.080 ppb

response 7503

Manual Integration:

Before

12/01/20

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

10.149min 0.094 ppb

response 19027

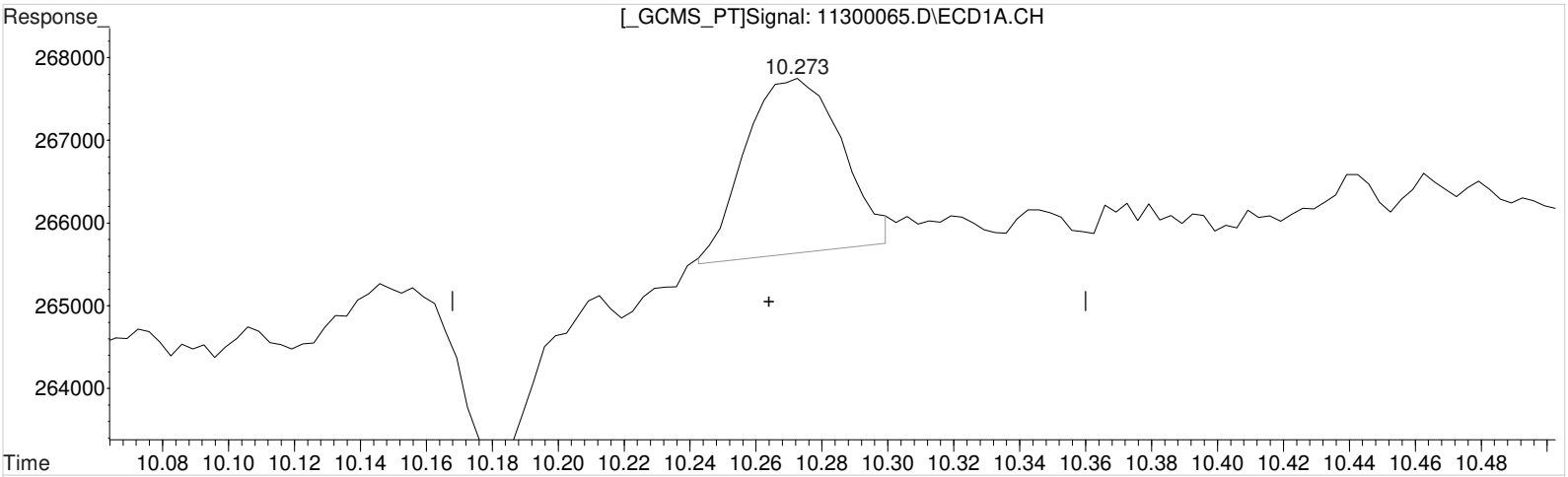
(+) = Expected Retention Time

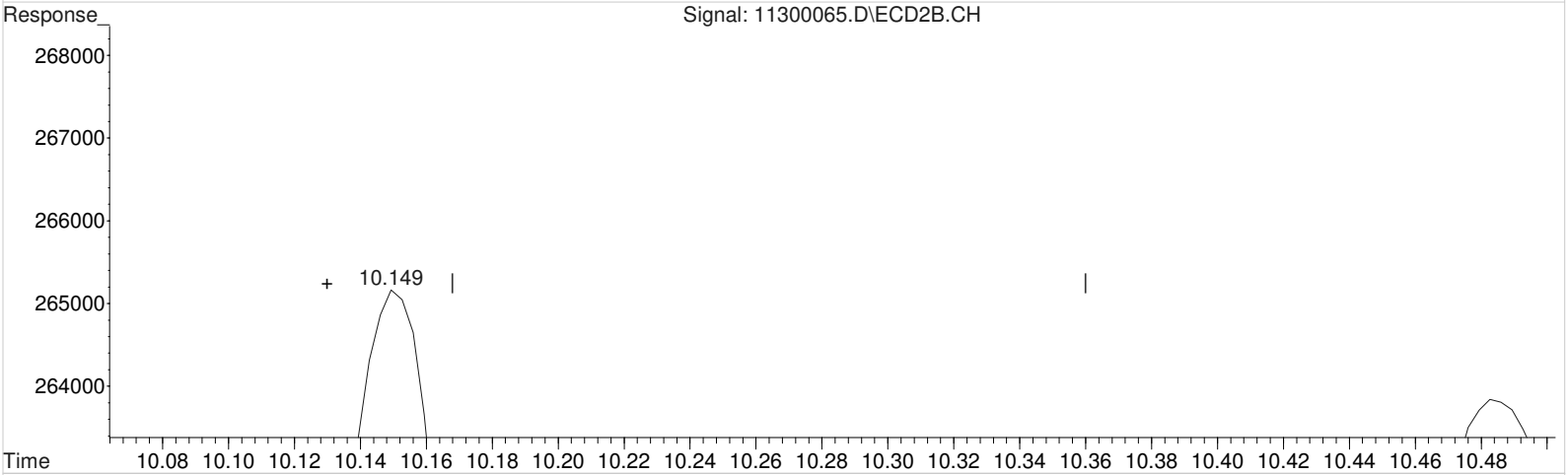
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300065.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 10:07 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.273min 0.046 ppb m

response 4308

Manual Integration:

After

Baseline/Shoulder

12/01/20

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

10.149min 0.094 ppb

response 19027

(+) = Expected Retention Time

1st STM 11/30/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300003.D\
Lab ID: KQ2019012-01
RunType: CCV
Matrix: Sediment

Date Acquired: 11/30/20 10:18:00
Batch ID: 705301
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: _____

Secondary Review: _____

1st SM 11/30/20
2nd 4W 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300003.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 10:18:00	**Vial:**	21
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019012-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	7.99	7.82	1704821	4491177	93.689	106.180			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	10.26	10.14	8220152	21522241	87.746	106.022	87.7	106	Y
2,4-D	9.32	9.07	1746548	4864270	82.229	95.008	82.2	95.0	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st SM 11/30/20
2nd AW 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300003.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 10:18:00	**Vial:**	15
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019012-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
2,4-Dichlorophenylacetic Acid	7.99	7.82	1704821	4491177	93.689	106.180			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-T	10.71	10.54	6023061	16501322	72.998	86.229	73.0	86.2	Y
2,4,5-TP (Silvex)	10.26	10.14	8220152	21522241	87.746	106.022	87.7	106	Y
2,4-D	9.32	9.07	1746548	4864270	82.229	95.008	82.2	95.0	Y
2,4-DB	11.29	11.18	711097	2239343	69.312	77.177	69.3	77.2	Y
Dalapon	3.12	2.88	2628138	5594552	108.339	115.799	108	116	Y
Dicamba	8.21	7.92	6741688	16753001	96.586	113.033	96.6	113	Y
Dichlorprop	8.96	8.76	1717376	4598627	92.095	110.239	92.1	110	Y
Dinoseb	11.68	11.32	4987058	13139592	80.610	96.080	80.6	96.1	Y
MCPA	8.56	8.36	568593	2711957	9710.819	12454.561	9710	12500	Y
MCPP	8.30	8.11	437842	2100256	9930.775	13096.921	9930	13100	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: 11/30/20 18:49
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300003.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 10:18 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 11:25:13 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.994	7.824	1704821	4491177	93.689	106.180	
	Target Compounds							
1) m	Dalapon	3.124	2.877	2628138	5594552	108.339	115.799	
3) m	Dicamba	8.210	7.924	6741688	16753001	96.586	113.033	
4) m	MCPP	8.297	8.114	437842	2100256	9930.775	13096.921	#
5) m	MCPA	8.564	8.360	568593	2711957	9710.819	12454.561	#
6) m	Dichloroprop	8.964	8.760	1717376	4598627	92.095	110.239	
7) m	2,4-D	9.320	9.067	1746548	4864270	82.229	95.008	
8) m	2,4,5-TP ...	10.260	10.137	8220152	21522241	87.746	106.022	
9) m	2,4,5-T	10.707	10.540	6023061	16501322	72.998	86.229	
10) m	2,4-DB	11.290	11.177	711097	2239343	69.312	77.177	
11) m	Dinoseb	11.680	11.324	4987058	13139592	80.610	96.080	

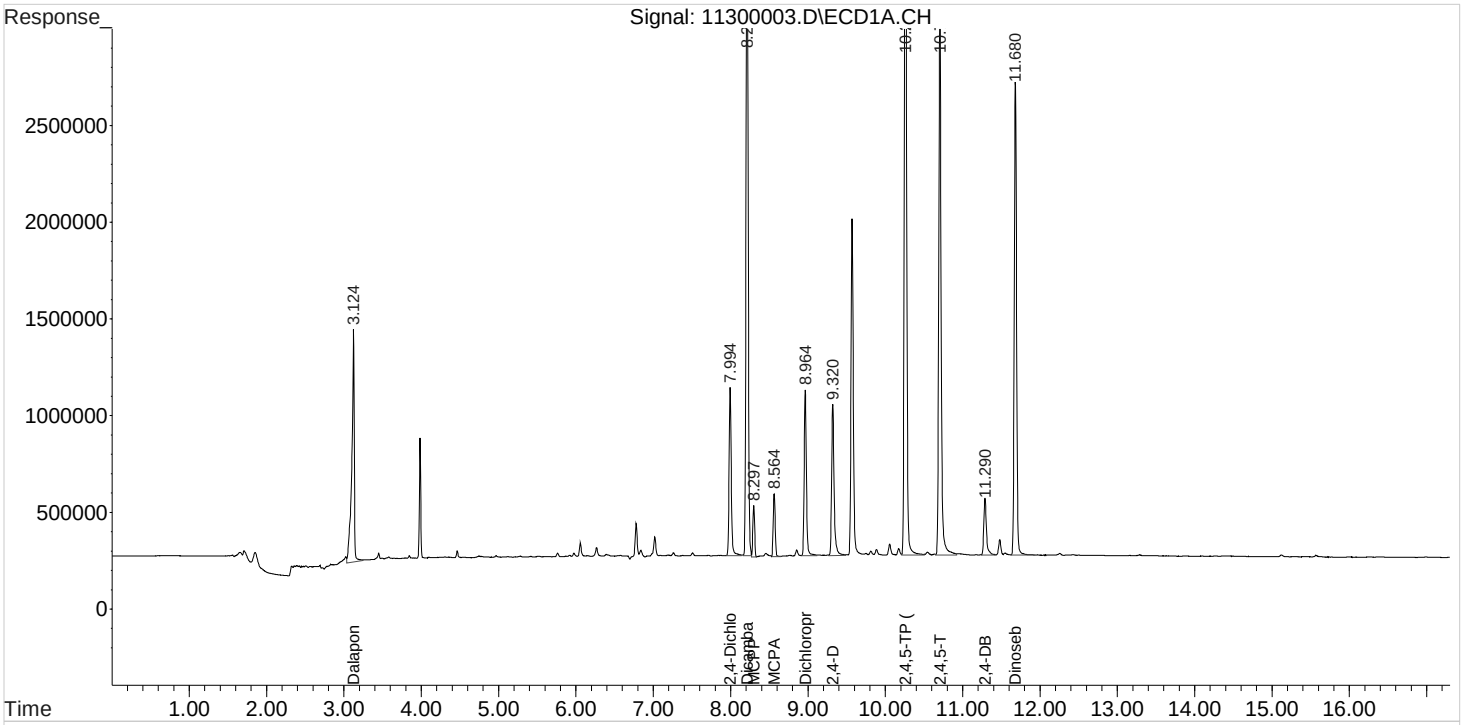
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

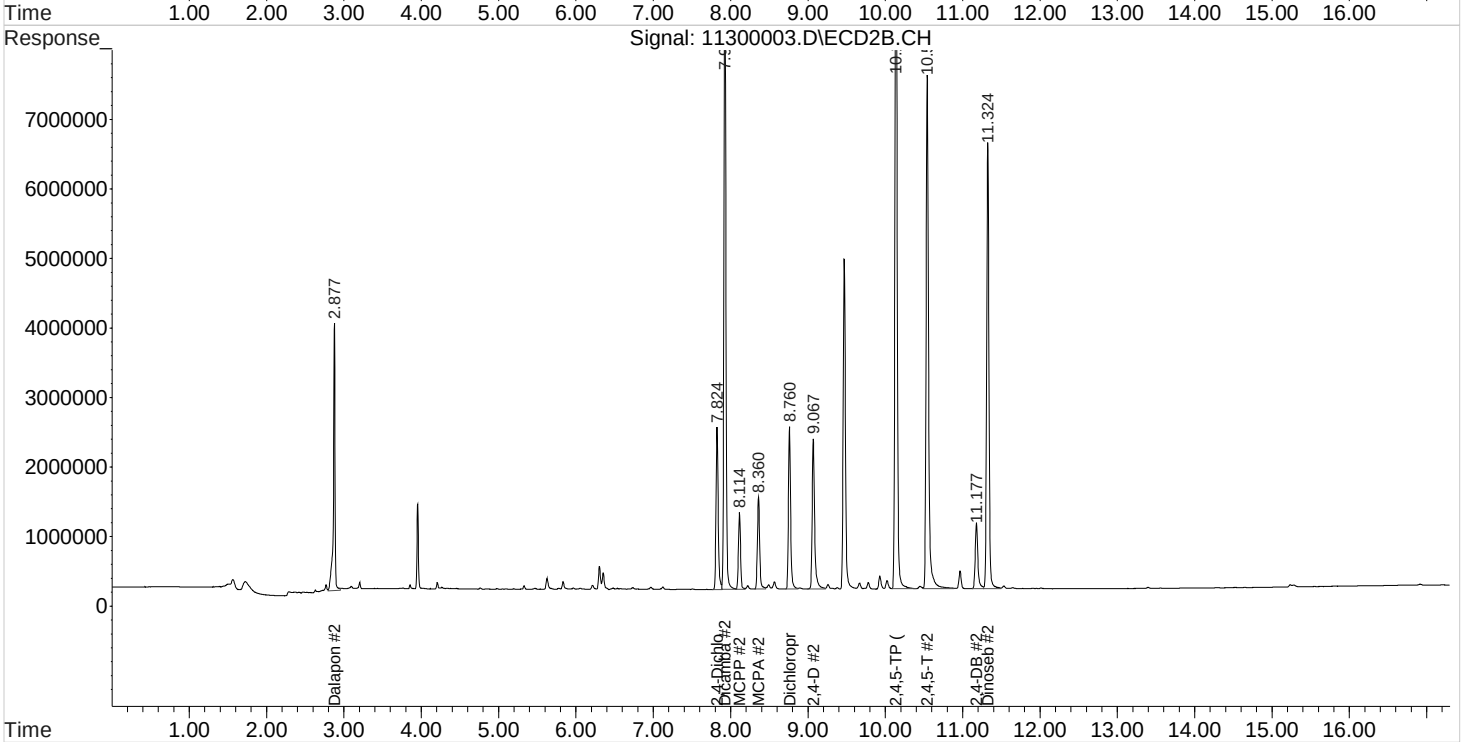
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300003.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 10:18 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 11:25:13 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 11/30/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300016.D\
Lab ID: KQ2019012-03
RunType: CCV
Matrix: Sediment

Date Acquired: 11/30/20 15:30:00
Batch ID: 705301
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: _____

Secondary Review: _____

1st SM 11/30/20
2nd 4W 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300016.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 15:30:00	**Vial:**	19
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019012-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	7.99	7.83	1708030	4667585	93.865	110.350			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	10.26	10.14	8134590	22130918	86.833	109.020	86.8	109	Y
2,4-D	9.32	9.07	1740853	5026097	81.961	98.169	82.0	98.2	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st SM 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300016.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 3:30 pm Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:15 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.992	7.825	1708030	4667585	93.865	110.350
	Target Compounds						
1) m	Dalapon	3.122	2.875	2627385	5711700	108.308	118.224
3) m	Dicamba	8.212	7.929	6690794	17537275	95.857	118.325
4) m	MCPP	8.299	8.115	431036	2158476	9784.315	13499.302 #
5) m	MCPA	8.562	8.362	564740	2756134	9645.015	12688.048 #
6) m	Dichloroprop	8.962	8.762	1695444	4781393	90.919	114.620 #
7) m	2,4-D	9.322	9.069	1740853	5026097	81.961	98.169
8) m	2,4,5-TP ...	10.259	10.139	8134590	22130918	86.833	109.020 #
9) m	2,4,5-T	10.705	10.545	5963373	16841511	72.275	88.006
10) m	2,4-DB	11.289	11.179	710589	2328842	69.262	80.261
11) m	Dinoseb	11.682	11.325	4955606	13369096	80.102	97.758

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

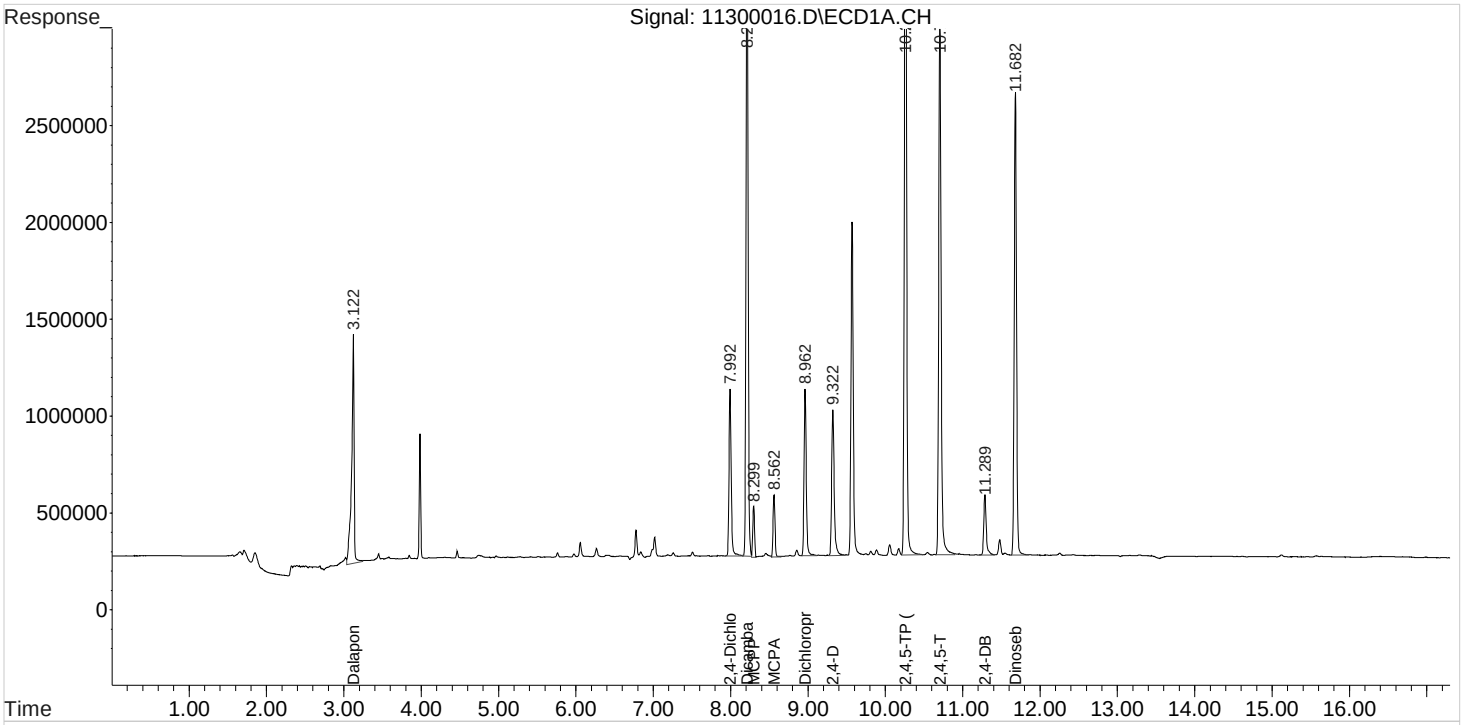
Quantitation Report (Not Reviewed)

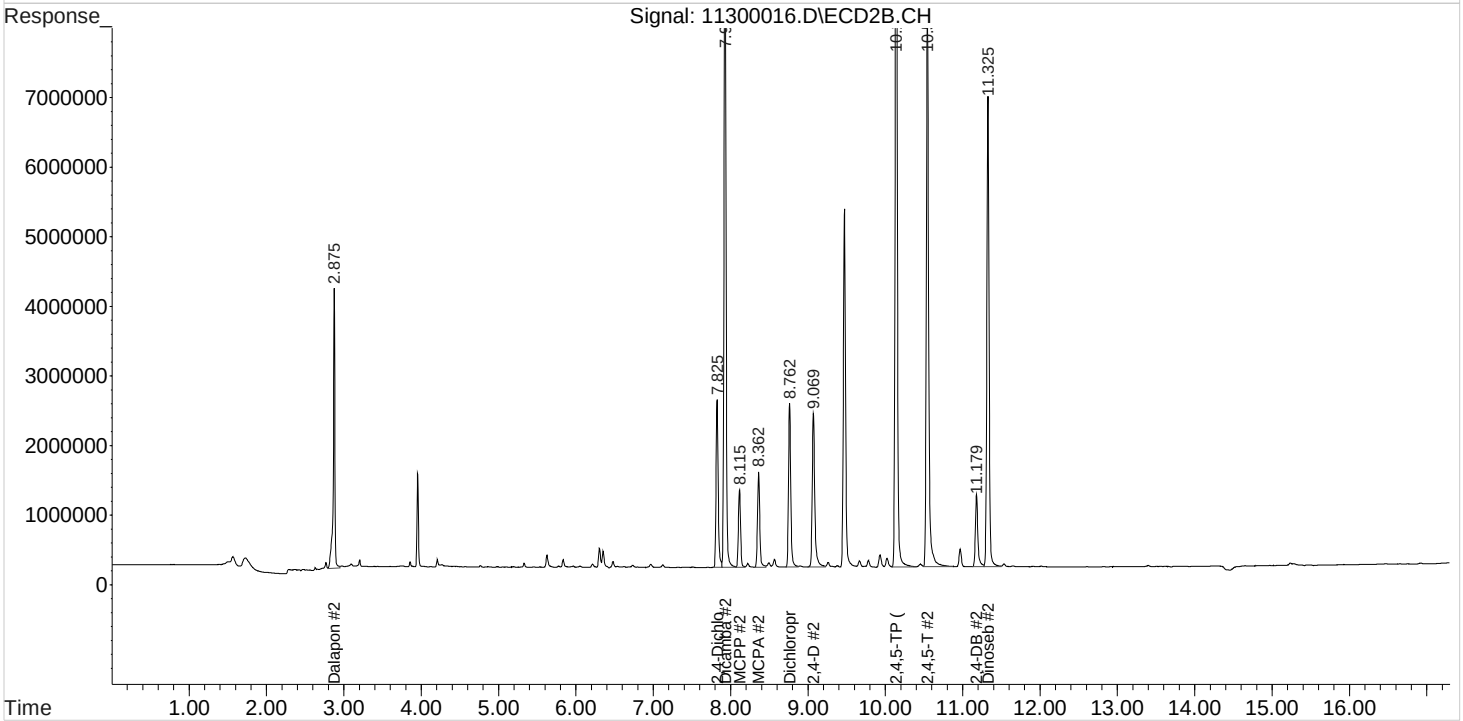
1st 11/30/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300016.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 3:30 pm Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 18:23:15 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300025.D\
Lab ID: KQ2019012-05
RunType: CCV
Matrix: Sediment

Date Acquired: 11/30/20 18:55:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300025.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 18:55:00	**Vial:**	11
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019012-05	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	7.99	7.82	1706040	4644080	93.756	109.795			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	10.26	10.14	8190920	21776328	87.434	107.274	87.4	107	Y
2,4-D	9.32	9.07	1761482	4964853	82.932	96.972	82.9	97.0	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300025.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 6:55 pm Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:32 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.991	7.824	1706040	4644080	93.756	109.795	
		Target Compounds							
1)	m	Dalapon	3.124	2.874	2534059	6004721	104.461	124.289	
3)	m	Dicamba	8.214	7.928	6676144	17287629	95.647	116.641	
4)	m	MCPP	8.298	8.114	432610	2123498	9818.186	13257.556	#
5)	m	MCPA	8.561	8.361	564001	2759450	9632.394	12705.574	#
6)	m	Dichloroprop	8.964	8.761	1708612	4728452	91.625	113.351	
7)	m	2,4-D	9.318	9.068	1761482	4964853	82.932	96.972	
8)	m	2,4,5-TP ...	10.261	10.138	8190920	21776328	87.434	107.274	
9)	m	2,4,5-T	10.704	10.544	6016693	16656456	72.921	87.039	
10)	m	2,4-DB	11.288	11.178	710382	2329204	69.242	80.273	
11)	m	Dinoseb	11.681	11.324	4966523	13236263	80.278	96.787	

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

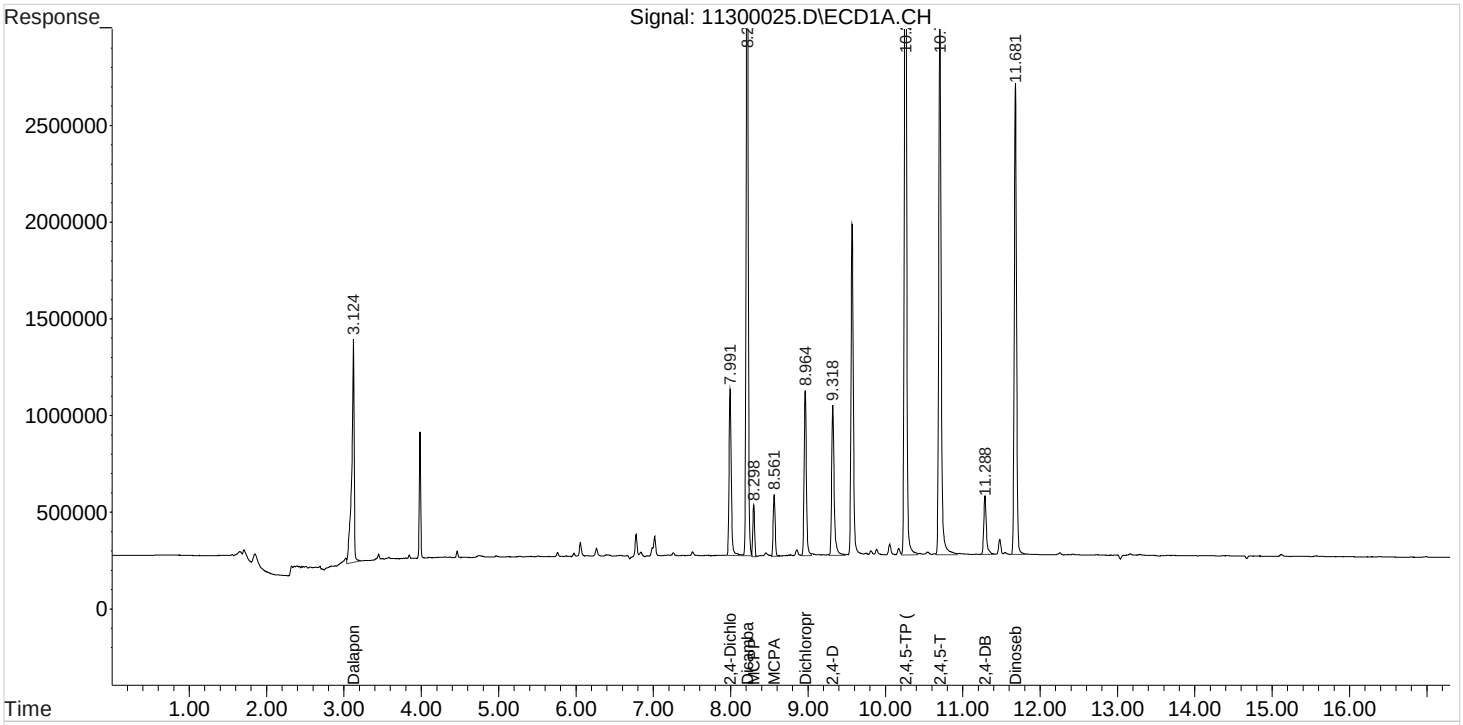
Quantitation Report (Not Reviewed)

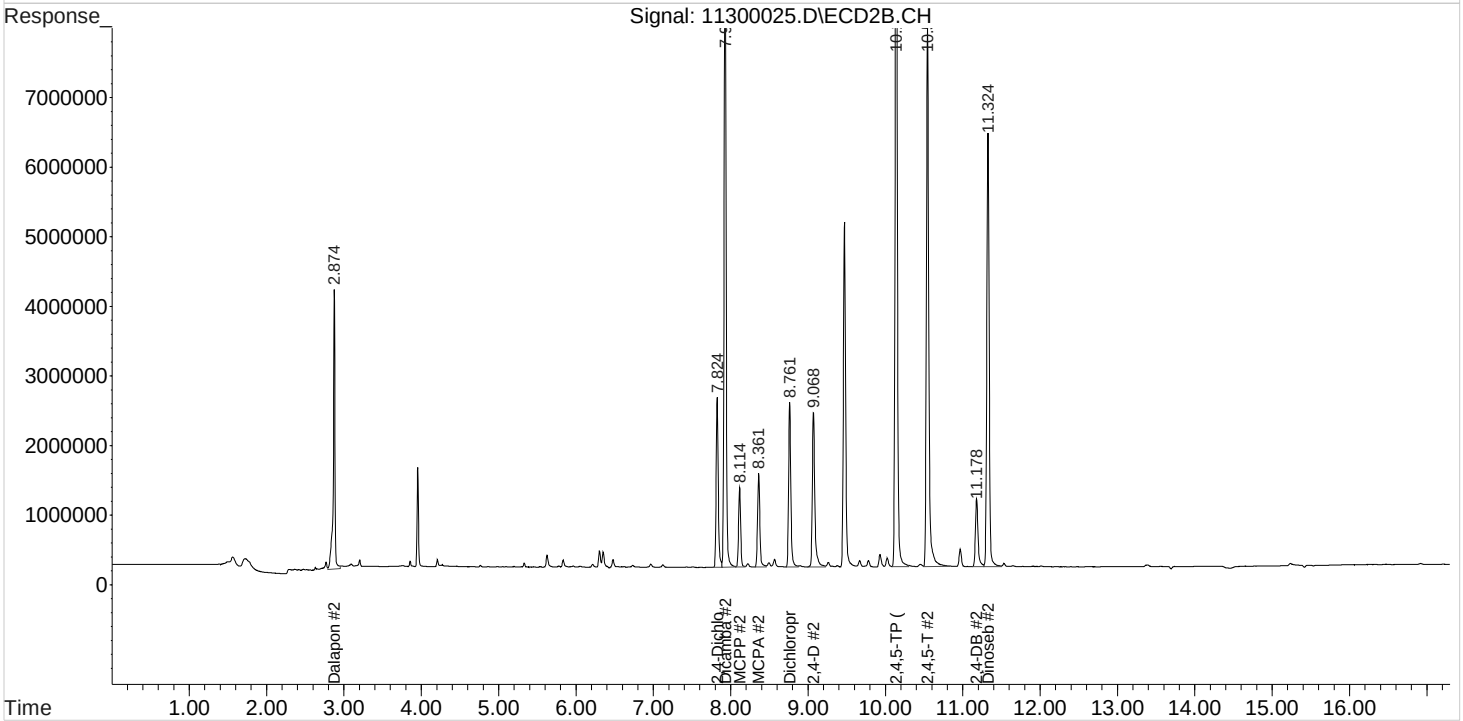
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300025.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 6:55 pm Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:08:32 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300037.D\
Lab ID: KQ2019012-07
RunType: CCV
Matrix: Sediment

Date Acquired: 11/30/20 23:28:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300037.D\	**Instrument:**	K-GC-24
Acqu Date:	11/30/20 23:28:00	**Vial:**	9
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019012-07	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	8.00	7.83	1662433	4695853	91.360	111.019			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	10.26	10.14	7915544	22124701	84.495	108.990	84.5	109	Y
2,4-D	9.32	9.07	1684138	4940765	79.290	96.502	79.3	96.5	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (Not Reviewed)

1st SM 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300037.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 11:28 pm Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:09:08 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.997	7.830	1662433	4695853	91.360	111.019
	Target Compounds						
1) m	Dalapon	3.127	2.877	2491708	5687528	102.715	117.723
3) m	Dicamba	8.217	7.930	6522687	17694070	93.448	119.383 #
4) m	MCPP	8.300	8.120	426317	2180537	9682.766	13651.774 #
5) m	MCPA	8.563	8.367	555454	2777028	9486.423	12798.478 #
6) m	Dichloroprop	8.967	8.767	1644790	4798793	88.203	115.037 #
7) m	2,4-D	9.320	9.074	1684138	4940765	79.290	96.502
8) m	2,4,5-TP ...	10.263	10.144	7915544	22124701	84.495	108.990 #
9) m	2,4,5-T	10.707	10.547	5733163	16394024	69.485	85.668
10) m	2,4-DB	11.290	11.184	687813	2257477	67.042	77.801
11) m	Dinoseb	11.683	11.330	4823658	13156102	77.969	96.201

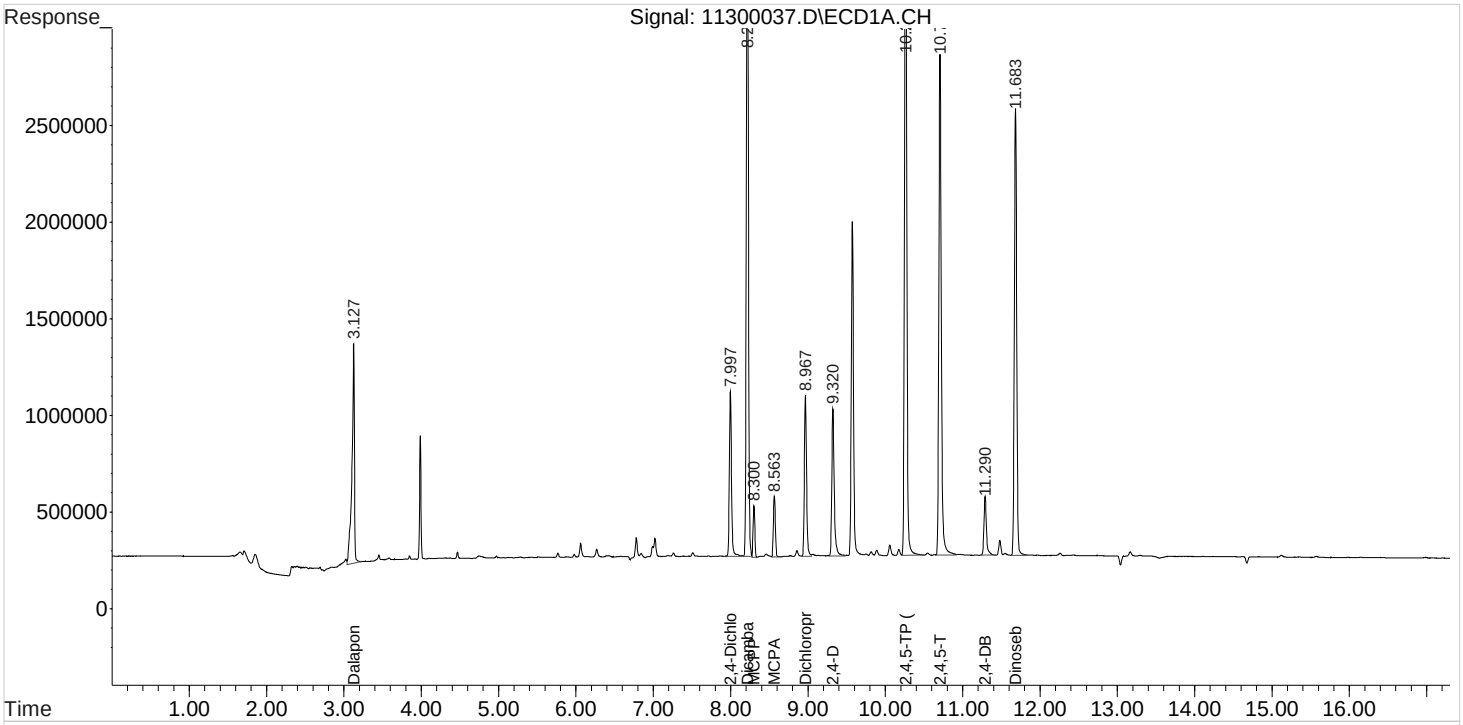
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

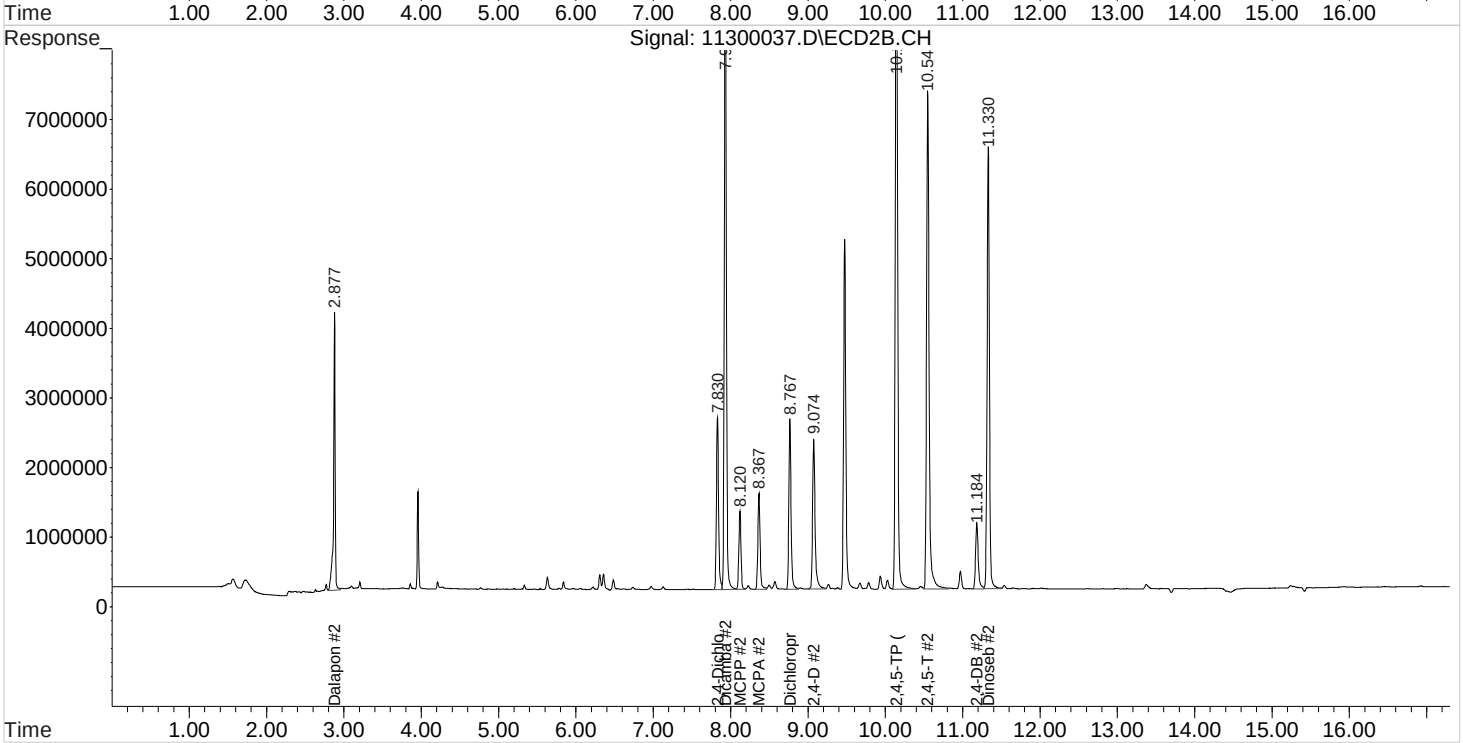
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300037.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Nov 2020 11:28 pm Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:09:08 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st SM 12/01/20
2nd 4W 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300049.D\
Lab ID: KQ2019012-09
RunType: CCV
Matrix: Sediment

Date Acquired: 12/1/20 04:02:00
Batch ID: 705301
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: _____

Secondary Review: _____

1st SM 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300049.D\	**Instrument:**	K-GC-24
Acqu Date:	12/1/20 04:02:00	**Vial:**	7
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019012-09	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	7.99	7.83	1664544	4734559	91.476	111.934			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	10.26	10.14	8092125	22702188	86.379	111.834	86.4	112	Y
2,4-D	9.32	9.07	1717471	5118529	80.860	99.974	80.9	100	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st STM 12/01/20
2nd 4W 12/02/20

Data File : J:\gc24\data\113020\11300049.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 4:02 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 13:17:12 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	7.993	7.826	1632332	4734559	89.705m	111.934
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.319	9.070	1691982	5118529	79.660m	99.974 #
8)	m	2,4,5-TP ...	10.263	10.143	8092125	22653770	86.379	111.596m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

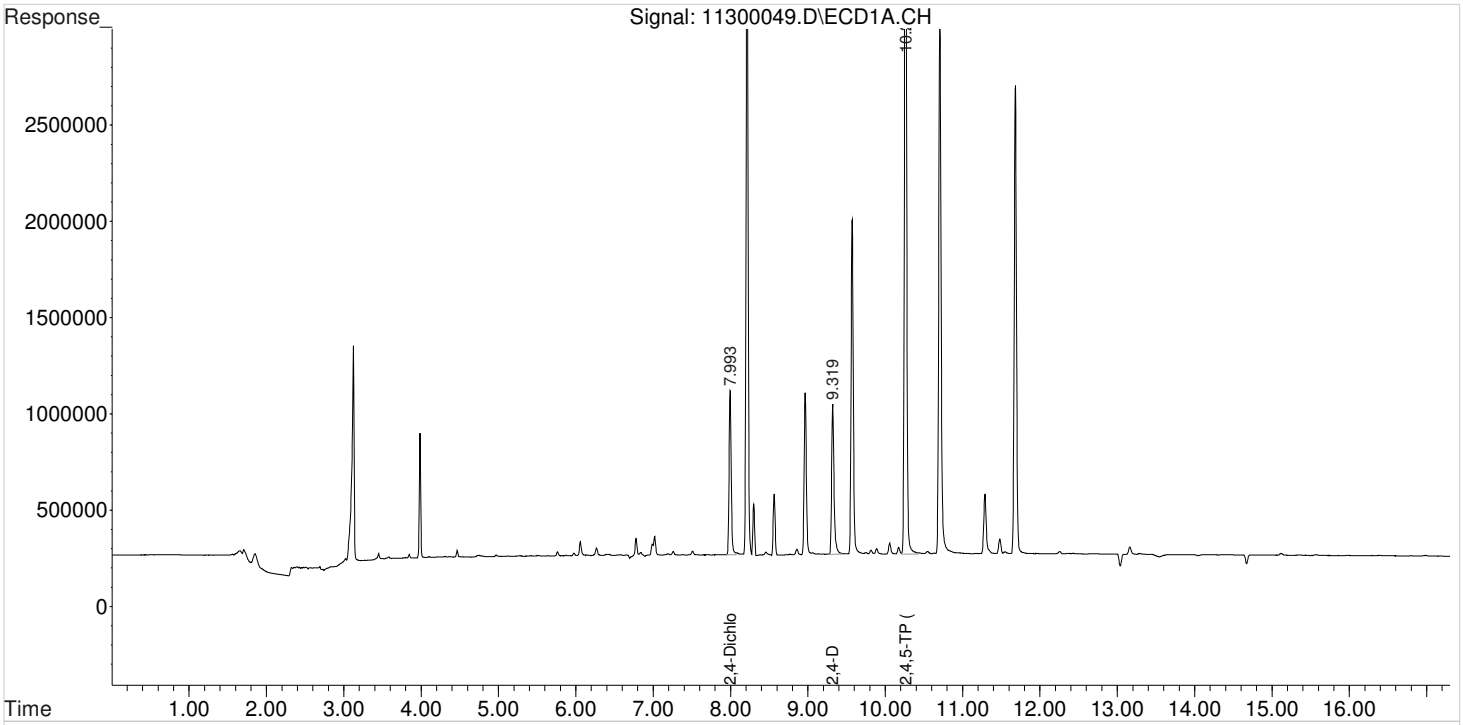
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

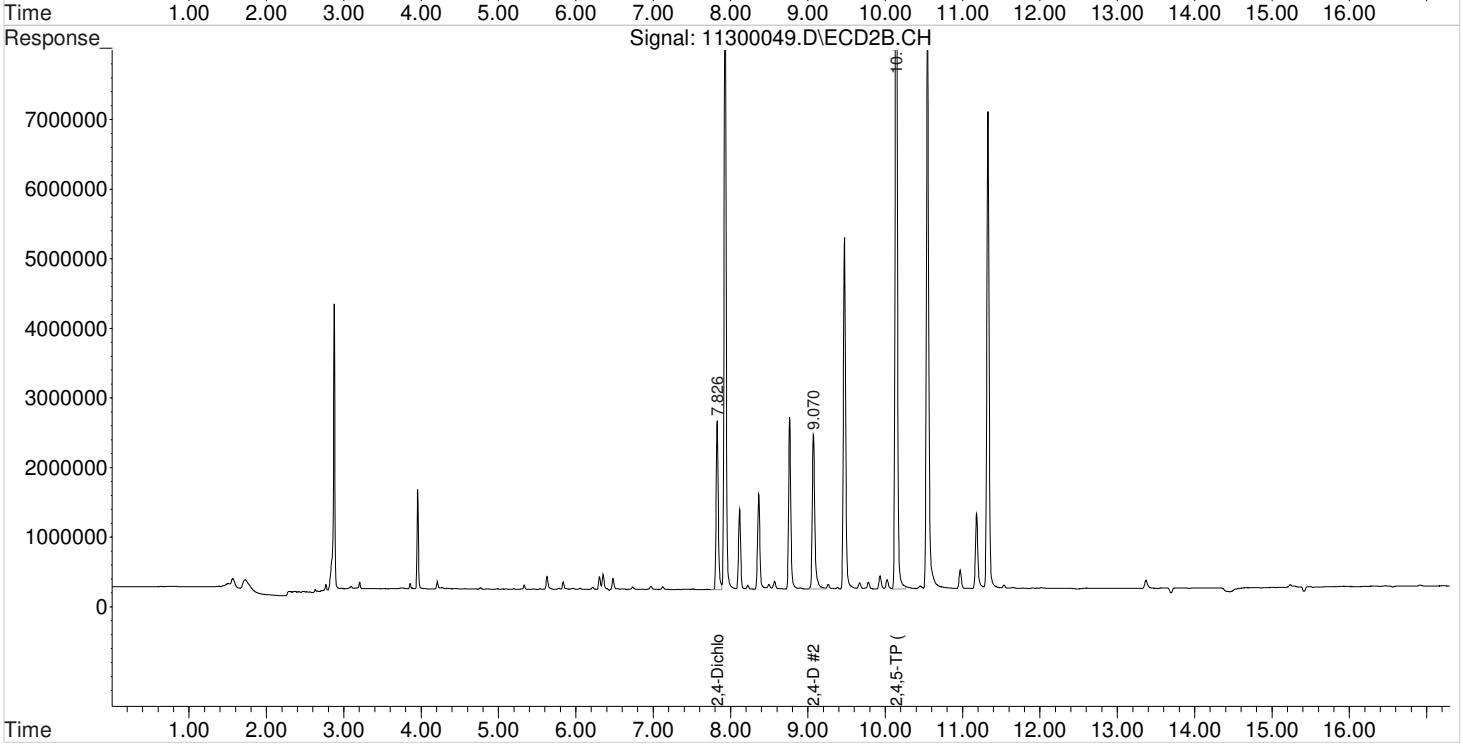
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300049.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 4:02 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 13:17:12 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



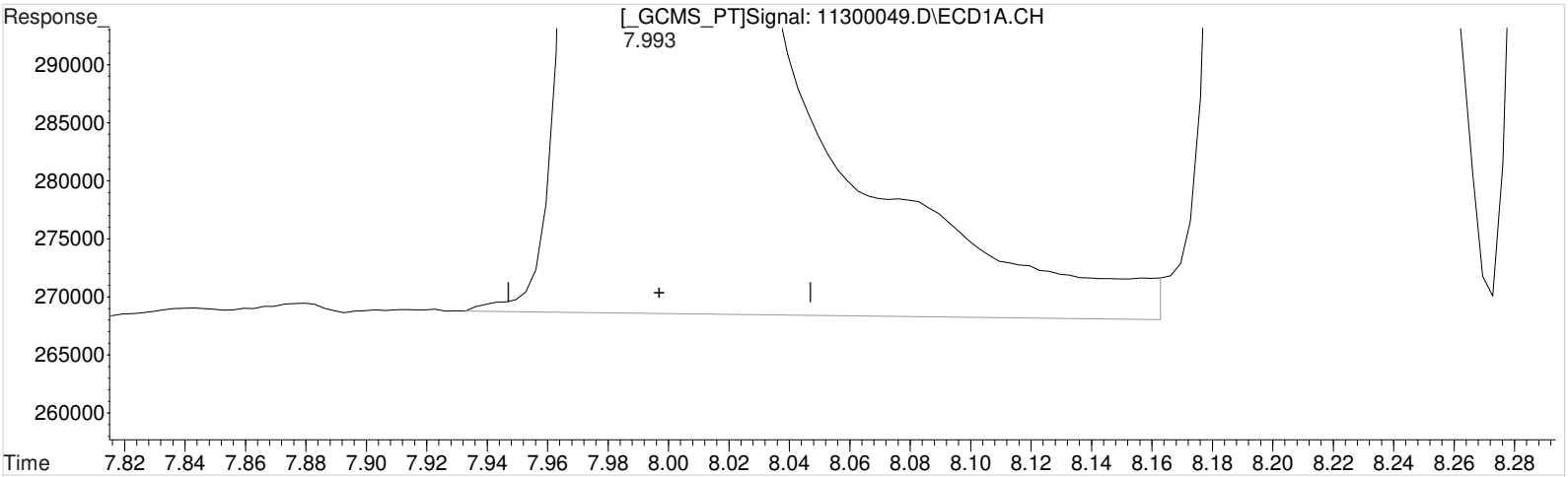


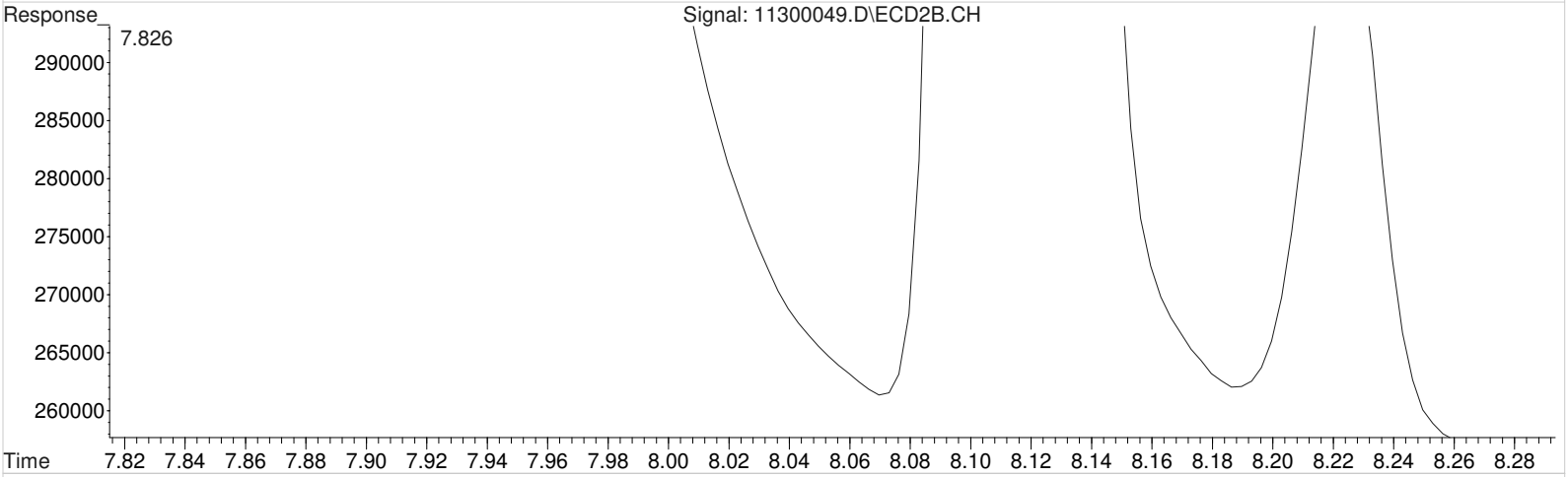
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300049.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 4:02 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:09:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.993min 91.476 ppb

response 1664544

Manual Integration:

Before

12/01/20

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

7.826min 111.934 ppb

response 4734559

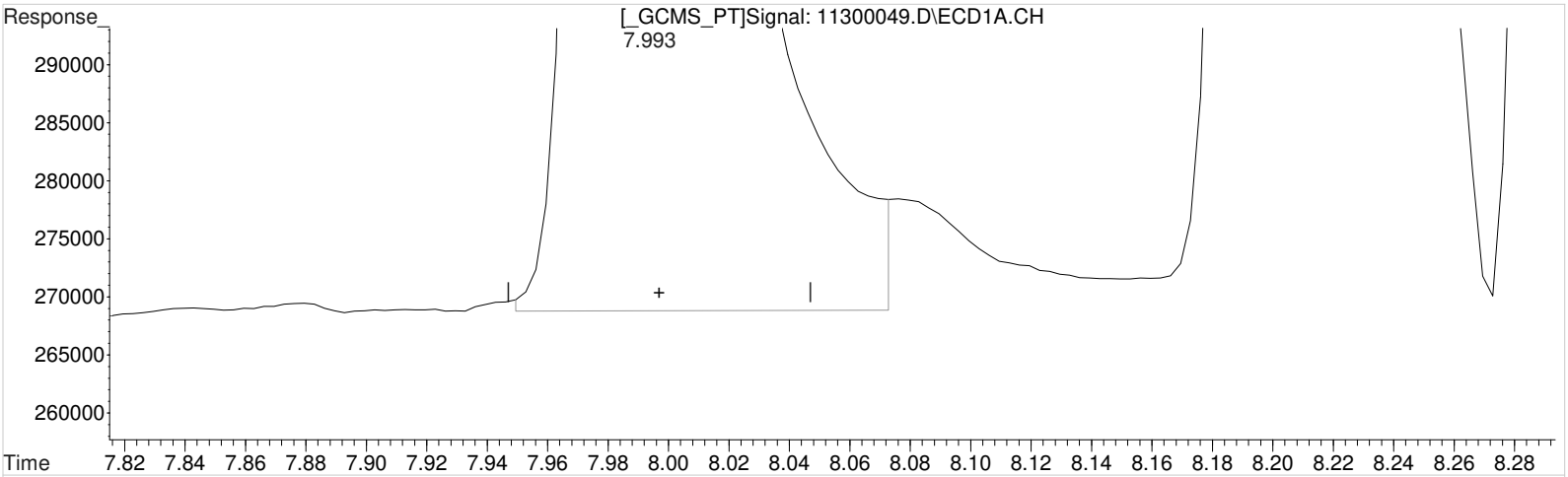
(+) = Expected Retention Time

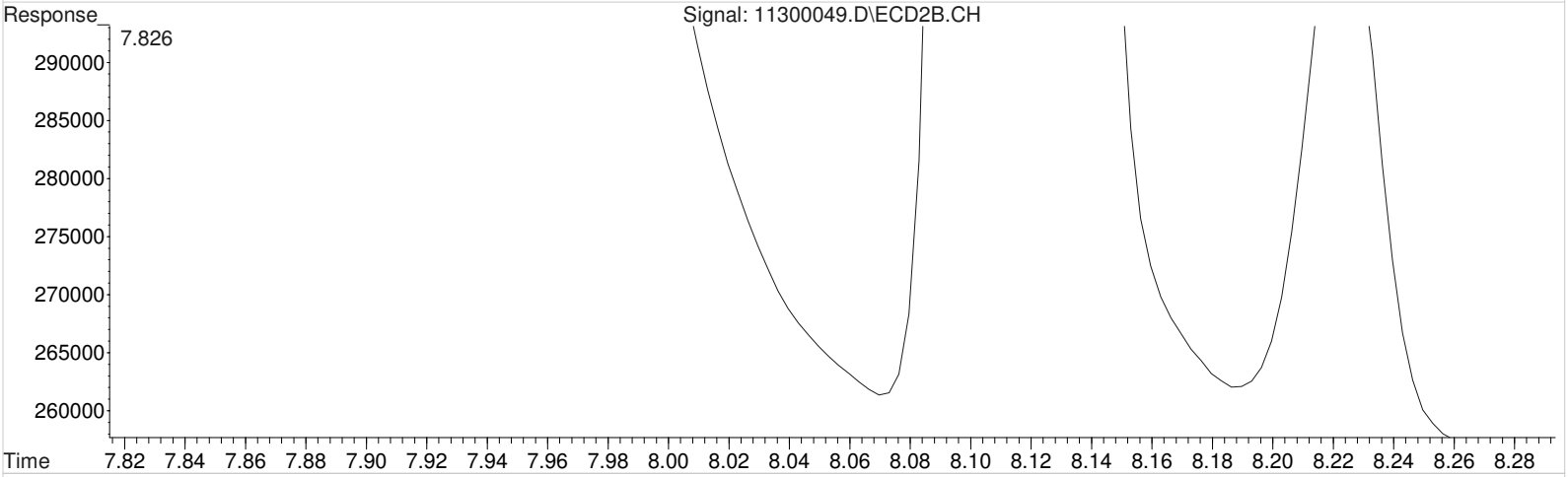
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300049.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 4:02 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:09:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.993min 89.705 ppb m

response 1632332

Manual Integration:

After

Baseline/Shoulder

12/01/20

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

7.826min 111.934 ppb

response 4734559

(+) = Expected Retention Time

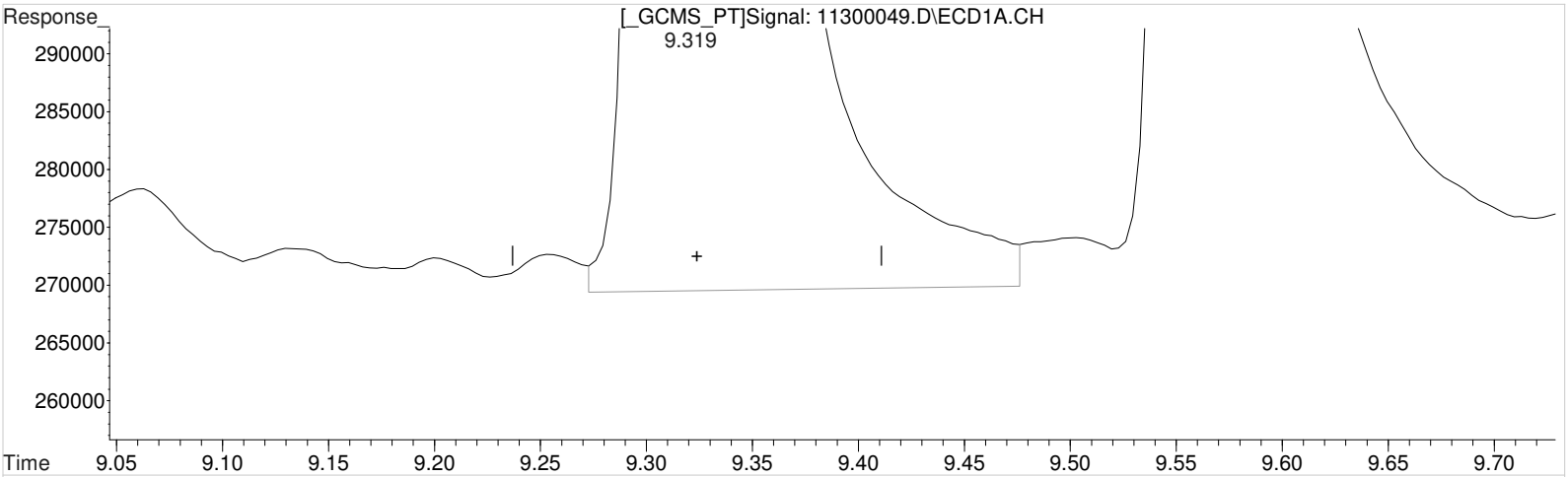
Quantitation Report (Qedit)

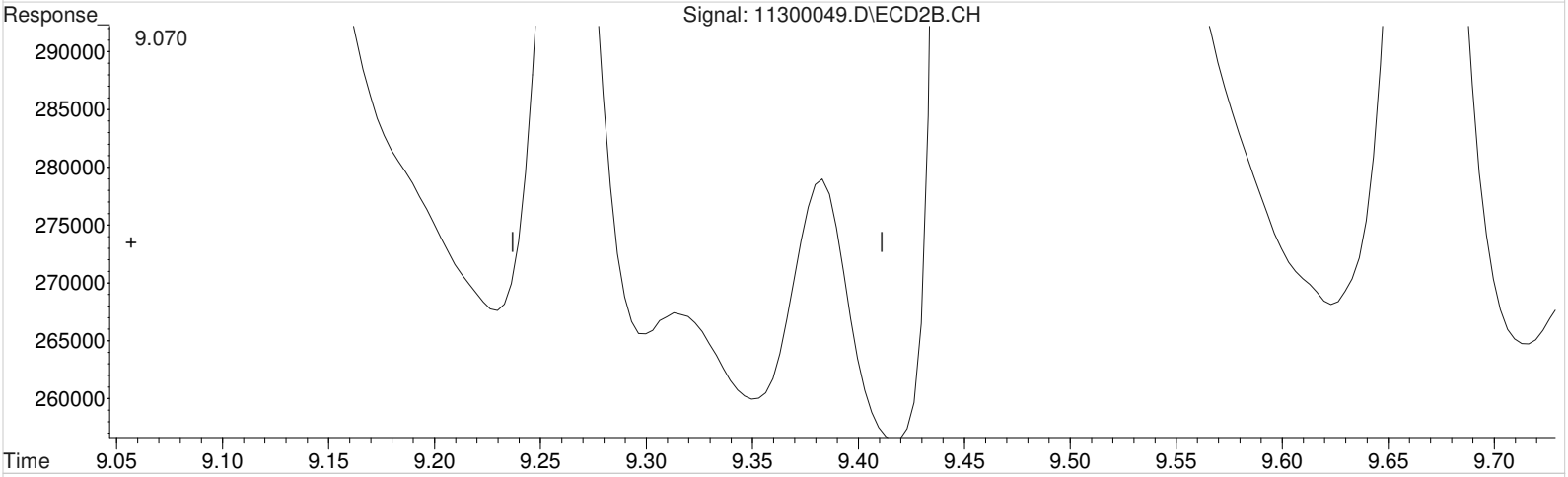
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300049.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 4:02 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:09:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.319min 80.860 ppb

response 1717471

Manual Integration:

Before

12/01/20

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

9.070min 99.974 ppb

response 5118529

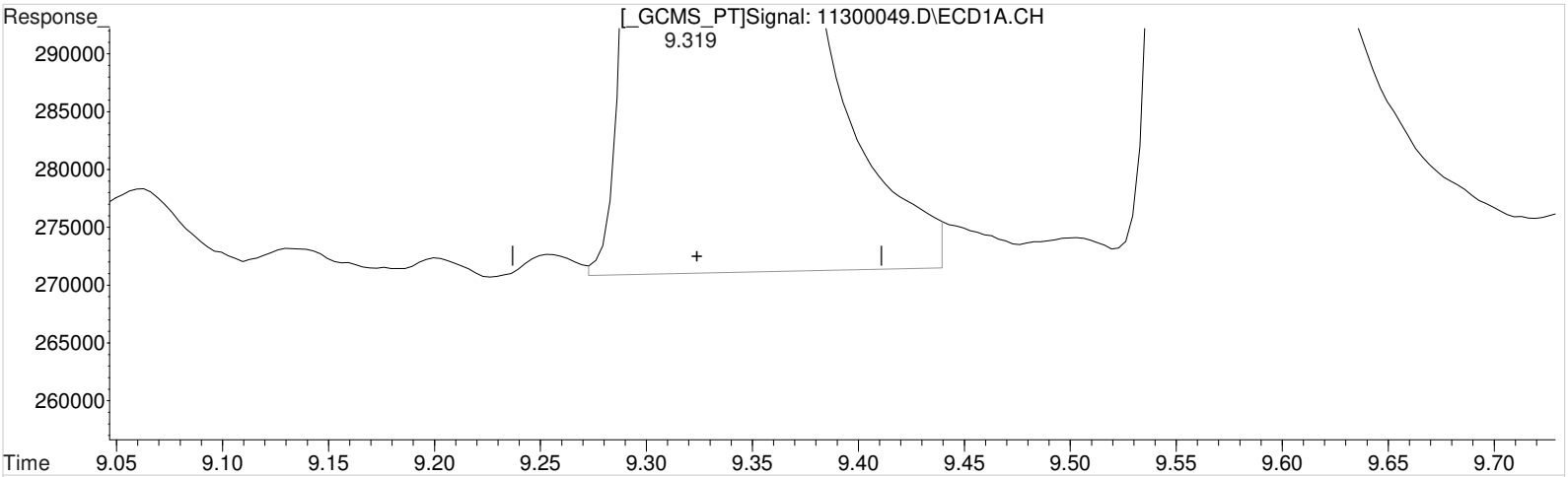
(+) = Expected Retention Time

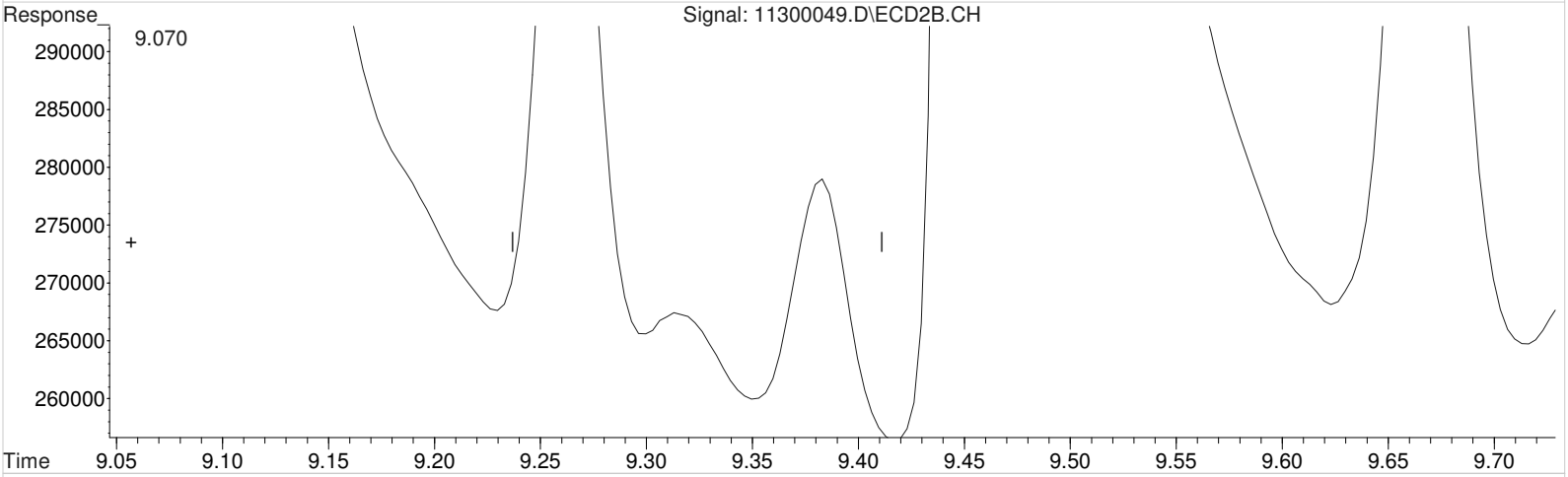
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300049.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 4:02 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:09:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.319min 79.660 ppb m

response 1691982

Manual Integration:

After

Baseline/Shoulder

12/01/20

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

9.070min 99.974 ppb

response 5118529

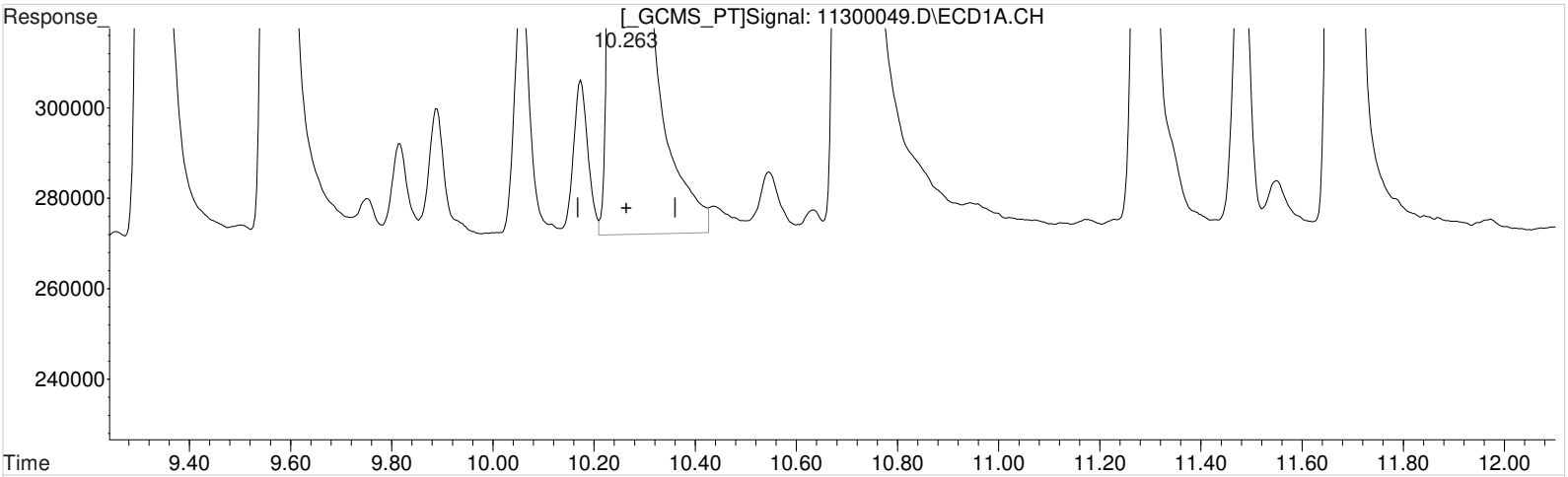
(+) = Expected Retention Time

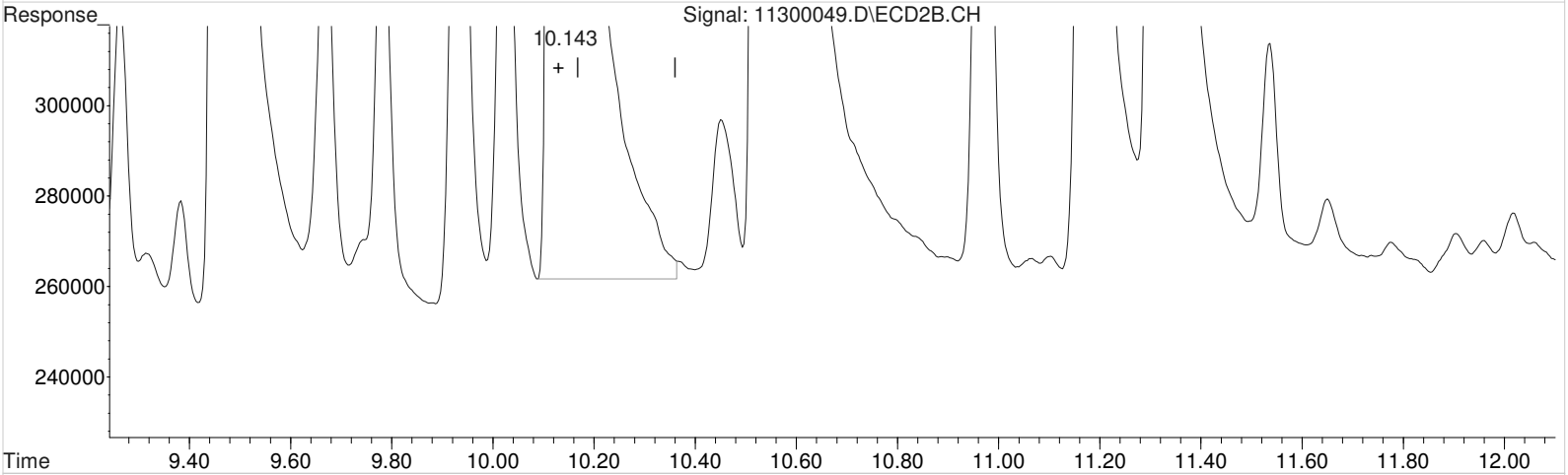
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300049.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 4:02 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:09:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.263min 86.379 ppb

response 8092125

Manual Integration:

Before

12/01/20

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

10.143min 111.834 ppb

response 22702188

(+) = Expected Retention Time

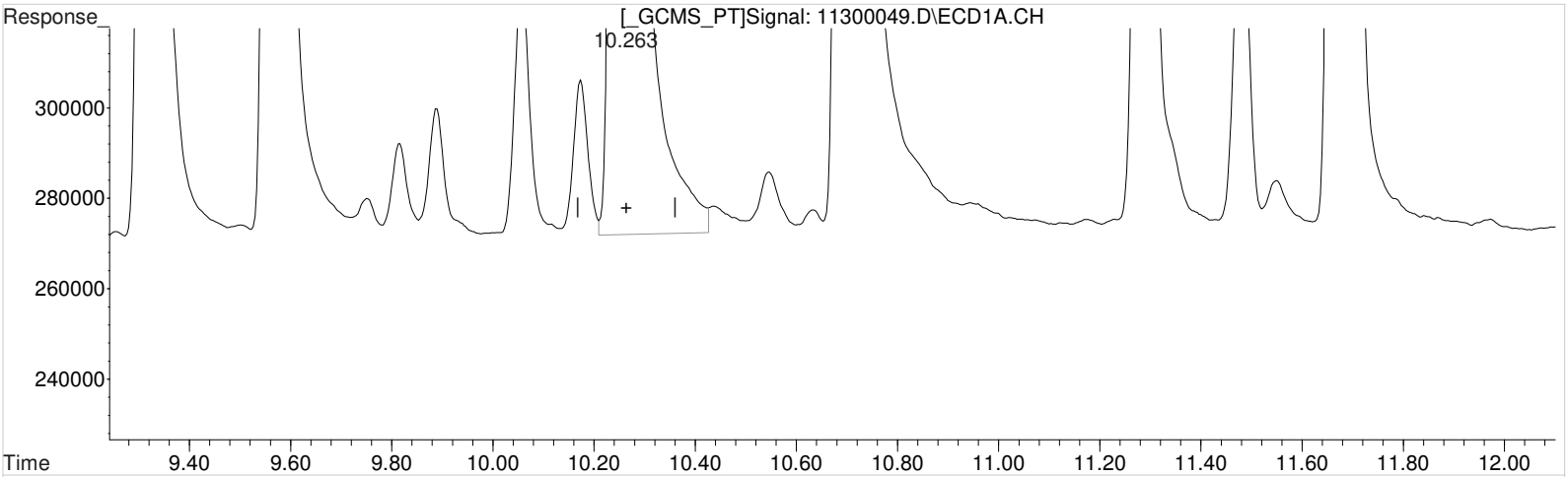
Quantitation Report (Qedit)

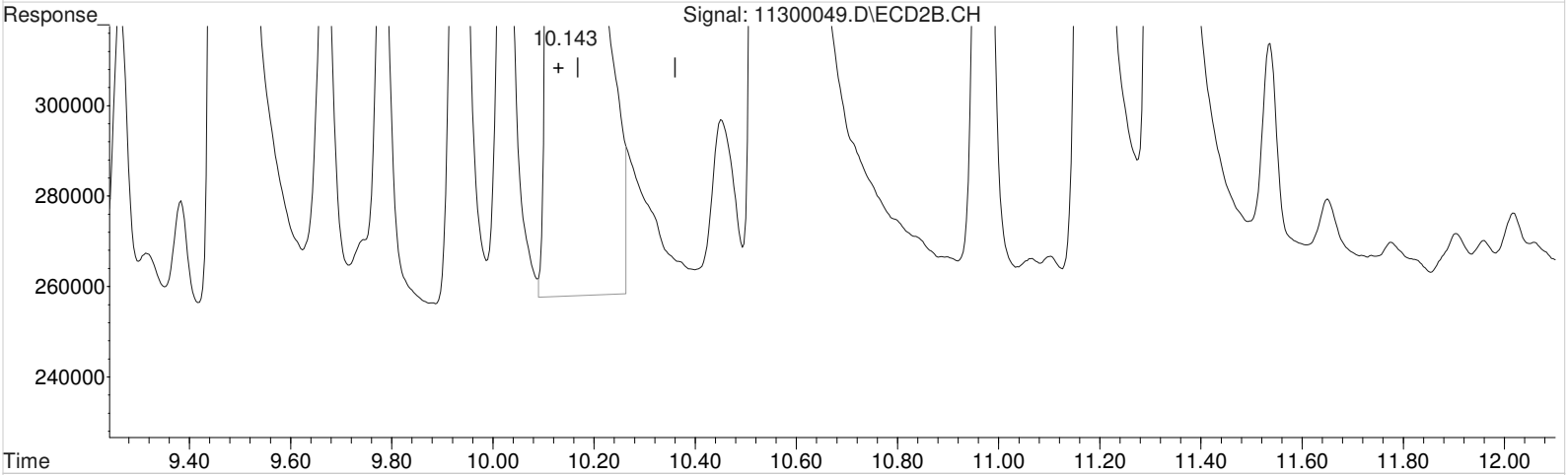
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300049.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 4:02 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 05:09:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.263min 86.379 ppb

response 8092125

Manual Integration:

After

Baseline/Shoulder

12/01/20

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

10.143min 111.596 ppb m

response 22653770

(+) = Expected Retention Time

1st 12/01/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300060.D\
Lab ID: KQ2019012-11
RunType: CCV
Matrix: Sediment

Date Acquired: 12/1/20 08:13:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300060.D\	**Instrument:**	K-GC-24
Acqu Date:	12/1/20 08:13:00	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019012-11	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	8.00	7.83	1570370	4628902	86.300	109.436			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-TP	10.26	10.14	7709516	22123193	82.295	108.982	82.3	109	Y
2,4-D	9.32	9.07	1618361	4952860	76.194	96.738	76.2	96.7	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300060.D\	**Instrument:**	K-GC-24
Acqu Date:	12/1/20 08:13:00	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019012-11	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
2,4-Dichlorophenylacetic Acid	8.00	7.83	1570370	4628902	86.300	109.436			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
2,4,5-TP (Silvex)	10.26	10.14	7709516	22123193	82.295	108.982	82.295	108.982	Y
2,4-D	9.32	9.07	1618361	4952860	76.194	96.738	76.194	96.738	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
Dalapon	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
Dichlorprop	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
MCPA	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0.000	0.000	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: 12/1/20 13:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300060.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 8:13 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:03:25 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	7.996	7.826	1570370	4628902	86.300	109.436 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.322	9.073	1618361	4952860	76.194	96.738 #
8)	m	2,4,5-TP ...	10.262	10.139	7709516	22123193	82.295	108.982 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

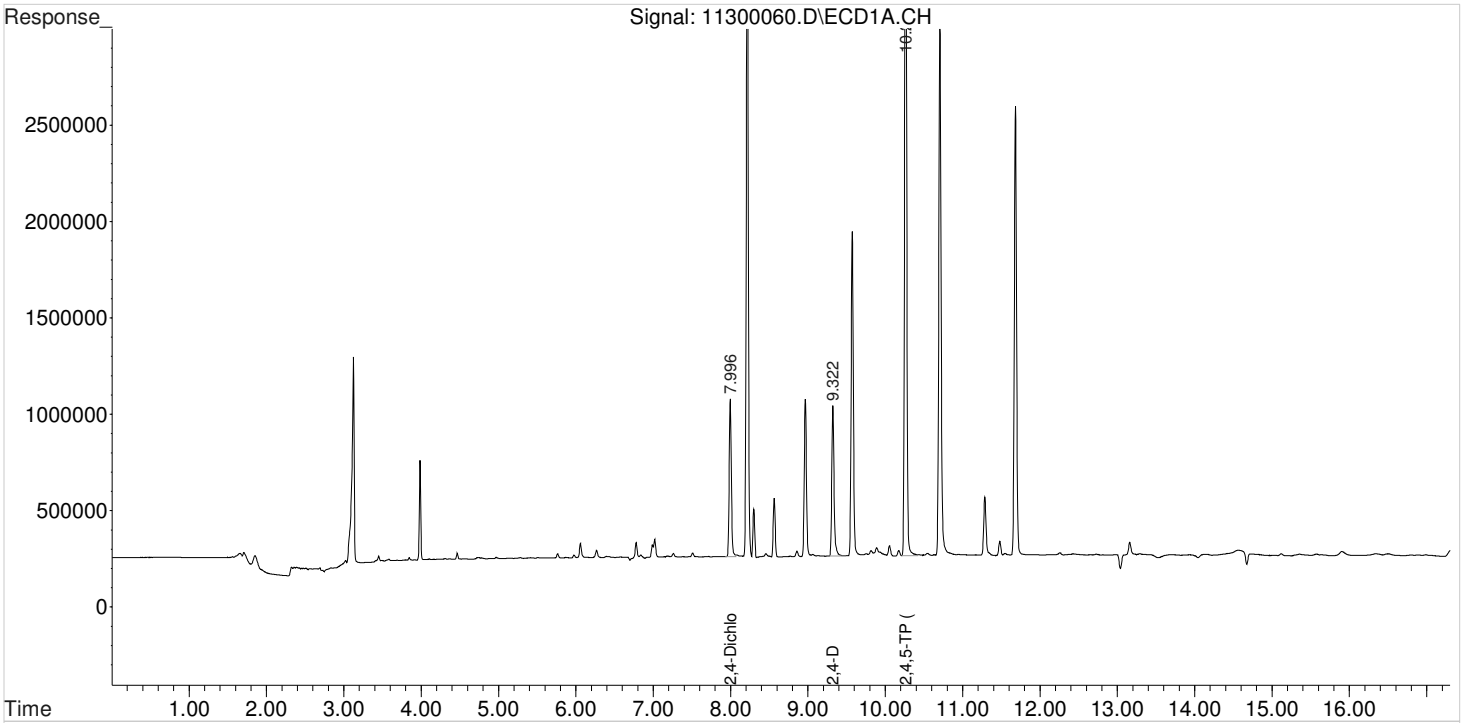
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

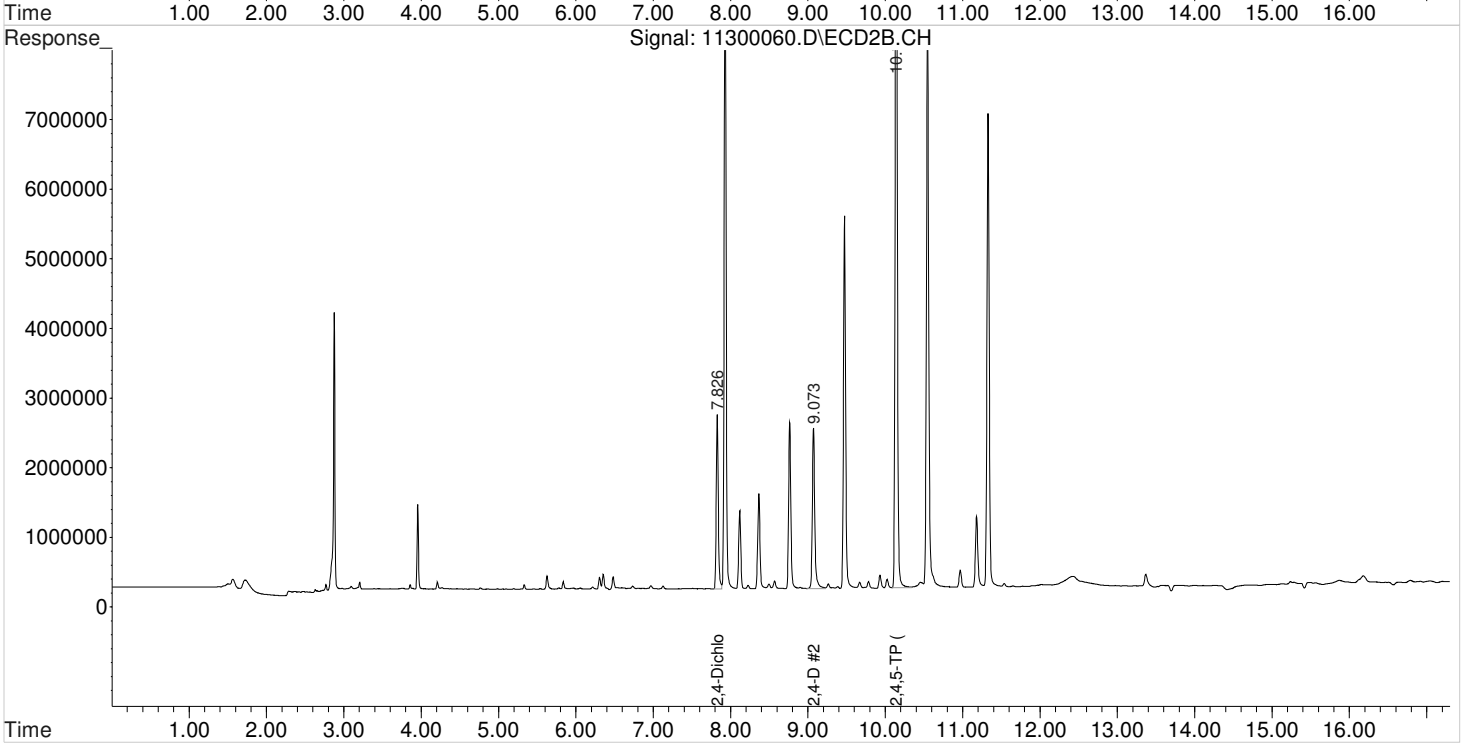
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300060.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 8:13 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:03:25 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st 12/01/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\113020\11300064.D\
Lab ID: KQ2019012-13
RunType: CCV
Matrix: Sediment

Date Acquired: 12/1/20 09:44:00
Batch ID: 705301
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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300064.D\	**Instrument:**	K-GC-24
Acqu Date:	12/1/20 09:44:00	**Vial:**	3
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019012-13	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	8.00	7.83	1584943	4587288	87.101	108.452			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	10.26	10.14	7868977	22109776	83.997	108.916	84.0	109	Y
2,4-D	9.32	9.07	1647307	5009840	77.556	97.851	77.6	97.9	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: 12/3/20 15:09
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st 12/01/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\113020\11300064.D\	**Instrument:**	K-GC-24
Acqu Date:	12/1/20 09:44:00	**Vial:**	3
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019012-13	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705301	**Prep Lot:**		**Report Group:**	KQ2019012
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
2,4-Dichlorophenylacetic Acid	8.00	7.83	1584943	4587288	87.101	108.452			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
2,4,5-TP (Silvex)	10.26	10.14	7868977	22109776	83.997	108.916	83.997	108.916	Y
2,4-D	9.32	9.07	1647307	5009840	77.556	97.851	77.556	97.851	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
Dalapon	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
Dichlorprop	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
MCPA	0.00	0.00	0	0	0.000	0.000	0.000	0.000	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0.000	0.000	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: 12/1/20 13:45
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300064.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 9:44 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:10:24 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	7.998	7.832	1584943	4587288	87.101	108.452
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.325	9.075	1647307	5009840	77.556m	97.851 #
8)	m	2,4,5-TP ...	10.265	10.145	7868977	22109776	83.997m	108.916m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

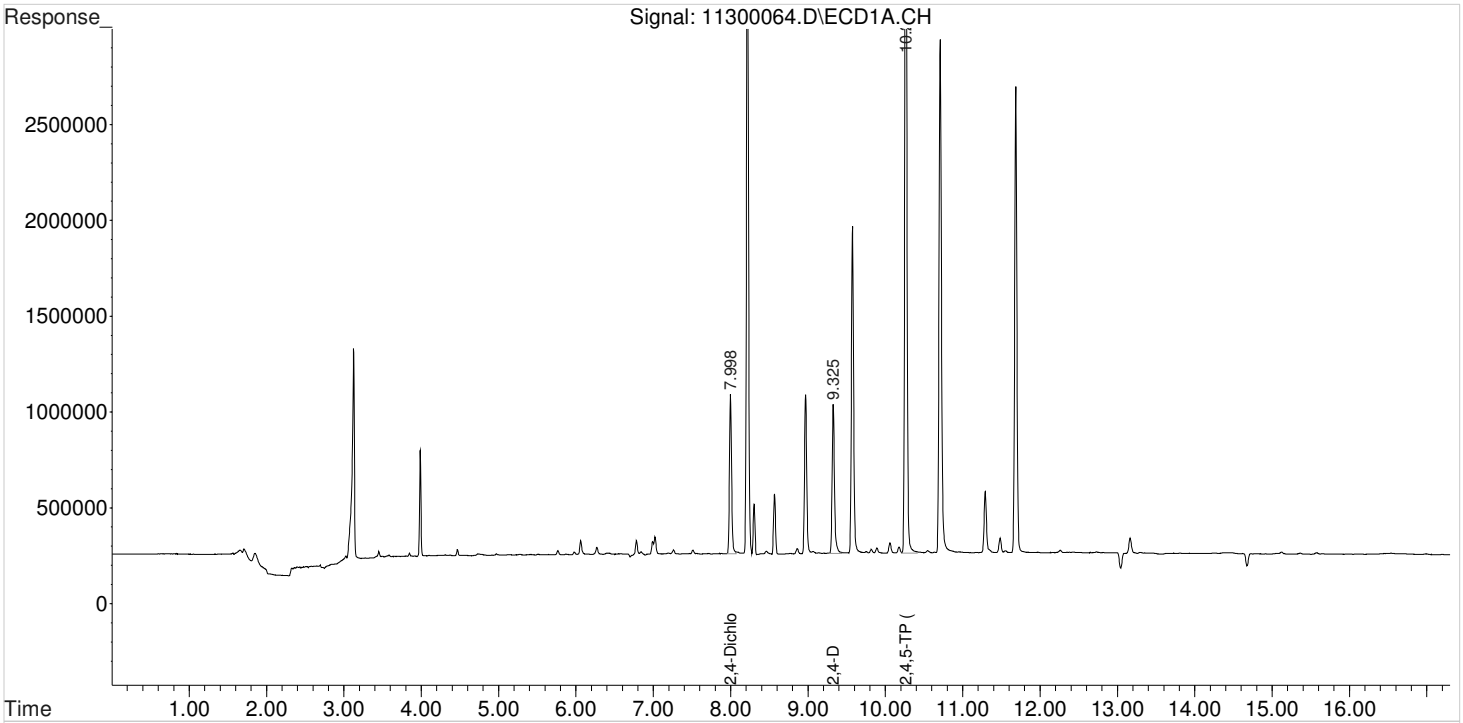
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

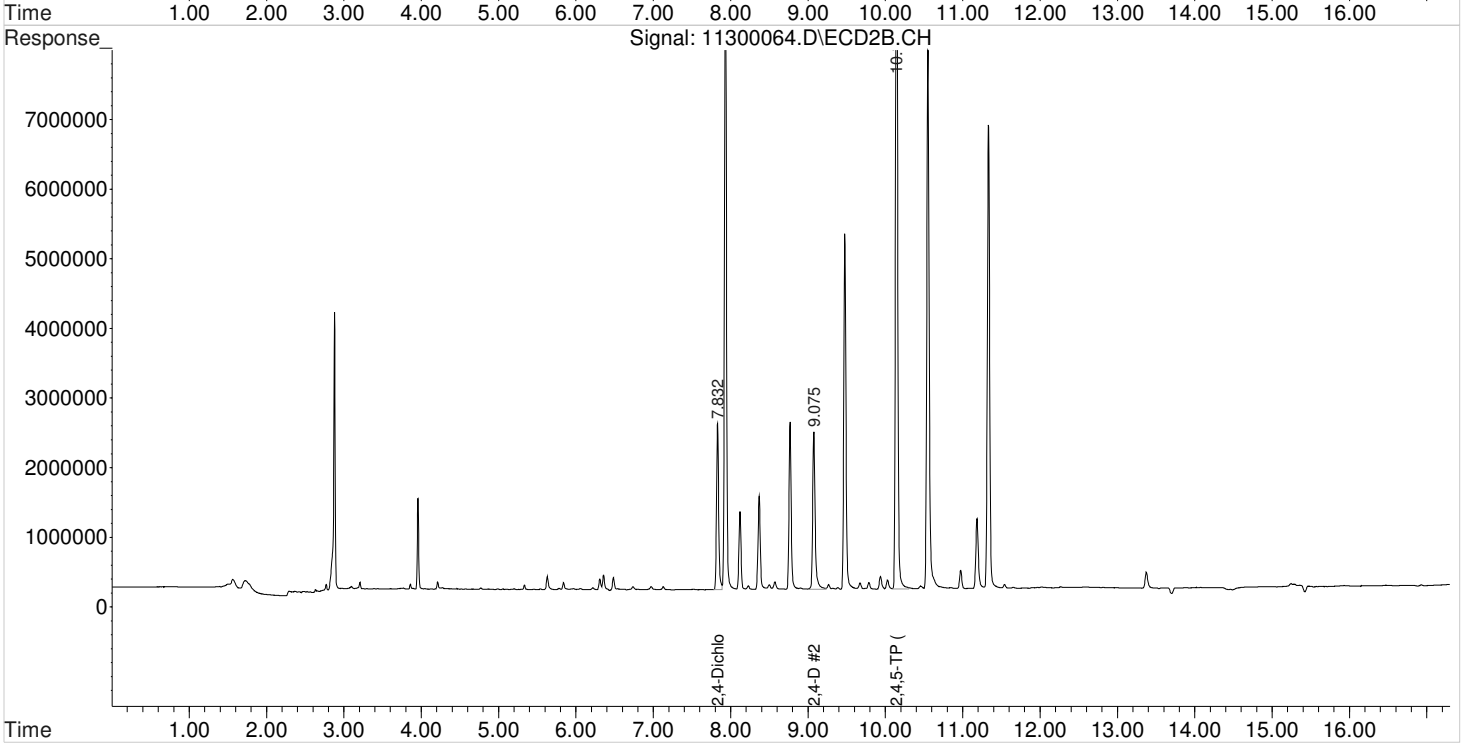
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300064.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 9:44 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:10:24 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



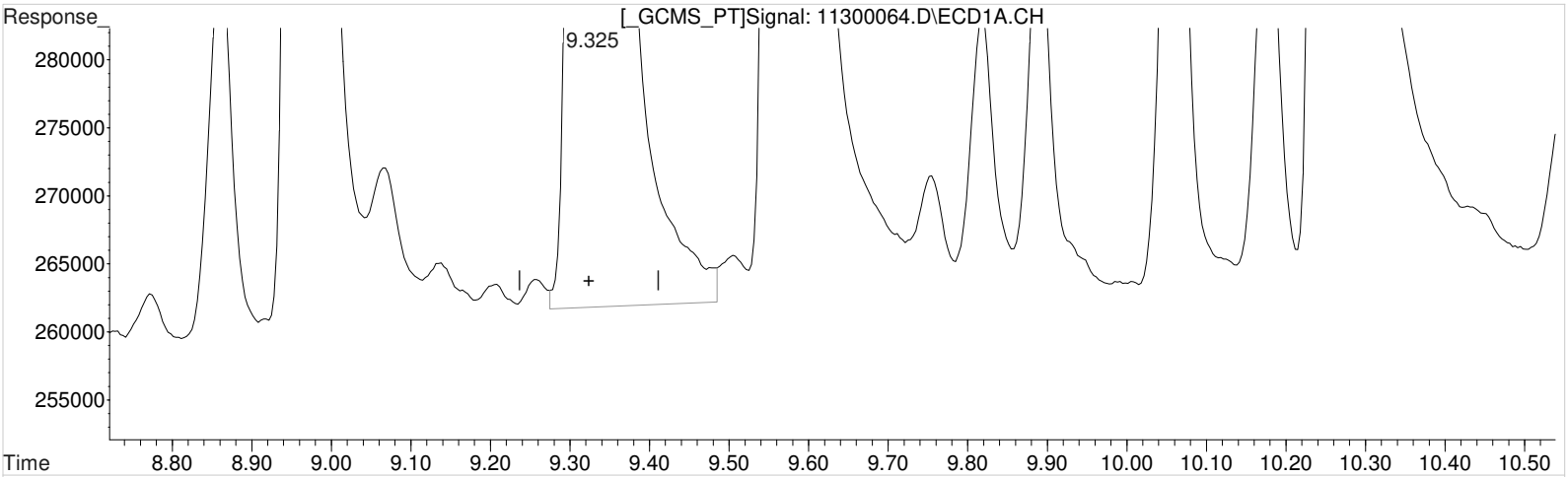


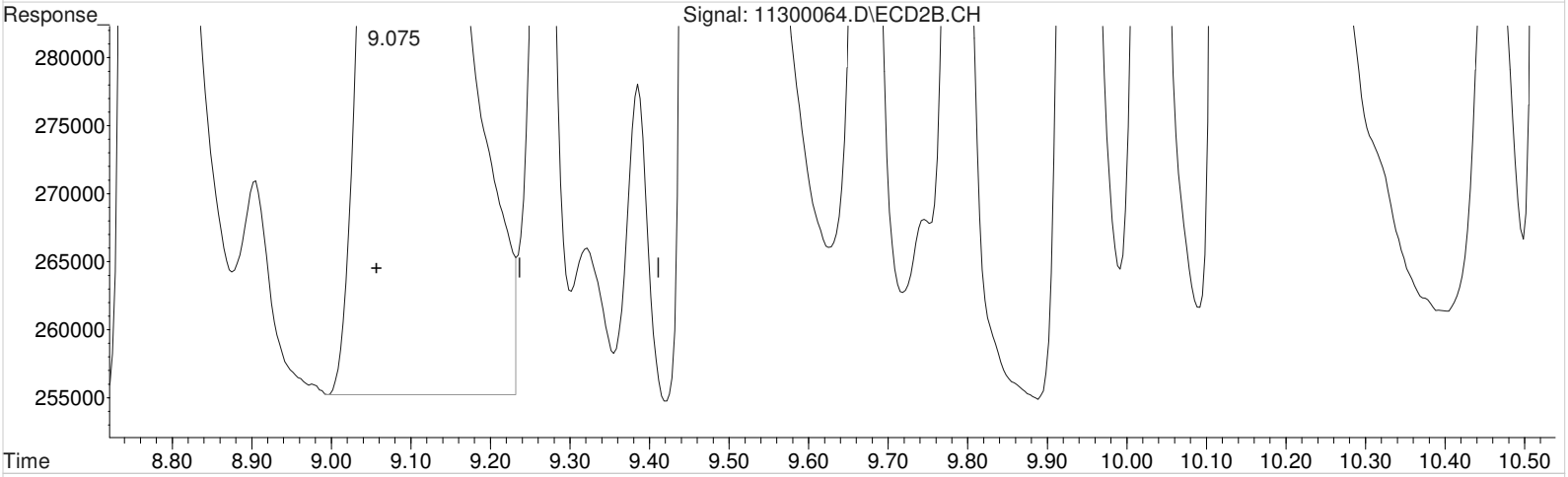
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300064.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 9:44 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.325min 78.234 ppb

response 1661695

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

9.075min 97.851 ppb

response 5009840

Manual Integration:

Before

12/01/20

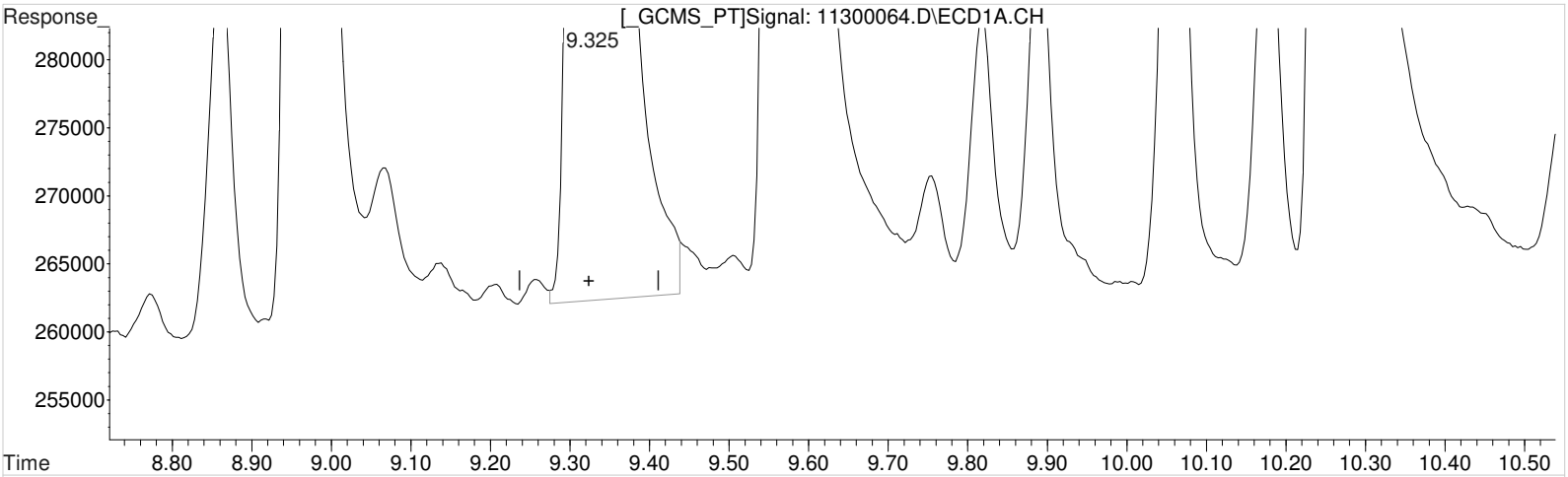
(+) = Expected Retention Time

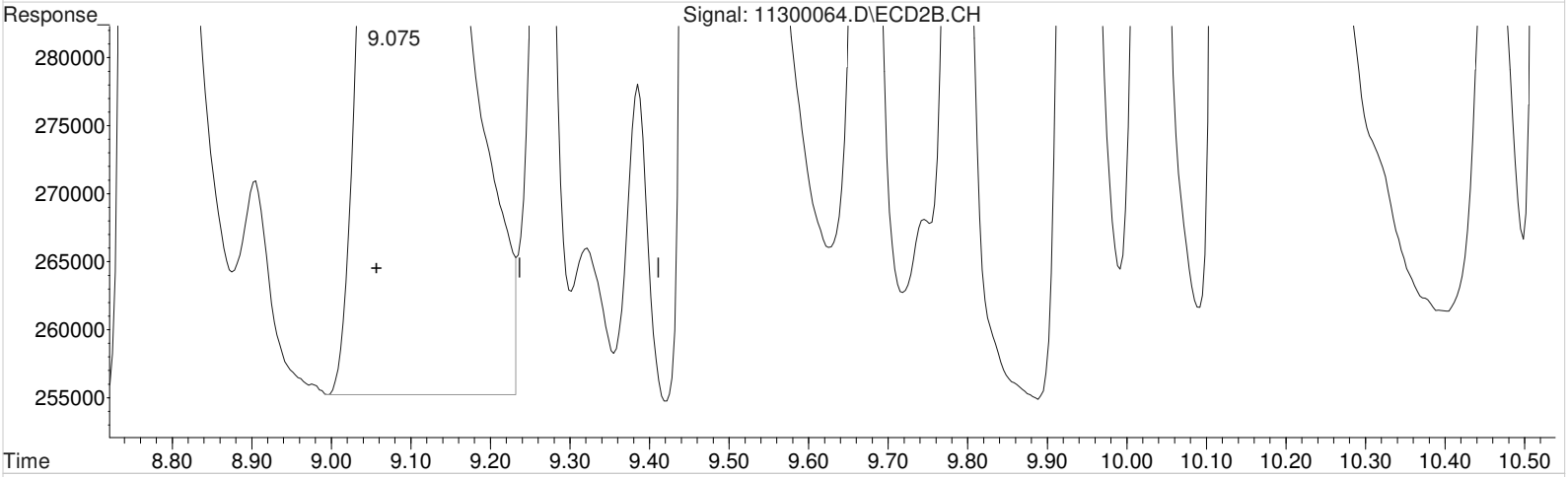
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300064.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 9:44 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.325min 77.556 ppb m

response 1647307

Manual Integration:

After

Baseline/Shoulder

12/01/20

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

9.075min 97.851 ppb

response 5009840

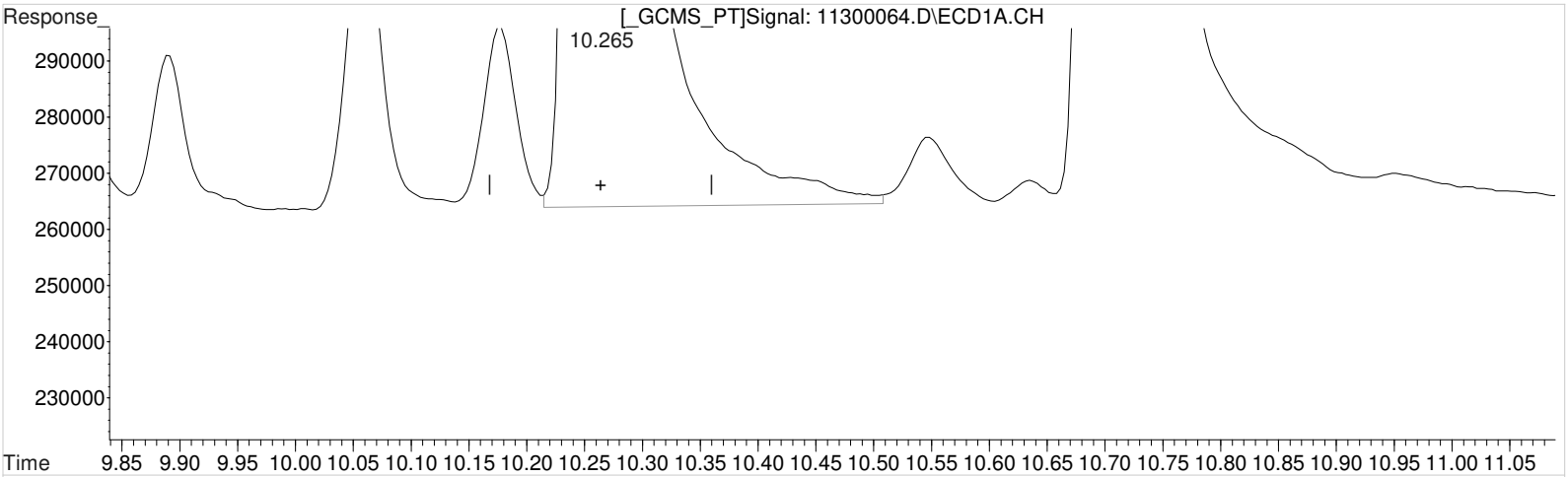
(+) = Expected Retention Time

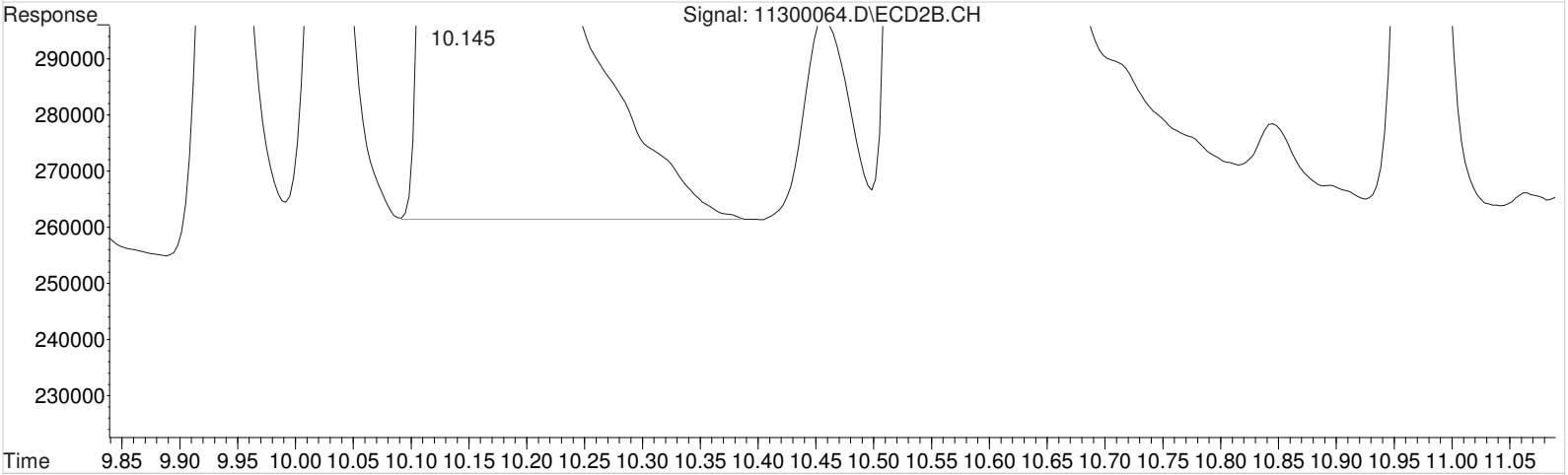
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300064.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 9:44 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.265min 84.157 ppb

response 7883884

Manual Integration:

Before

12/01/20

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

10.145min 108.754 ppb

response 22076902

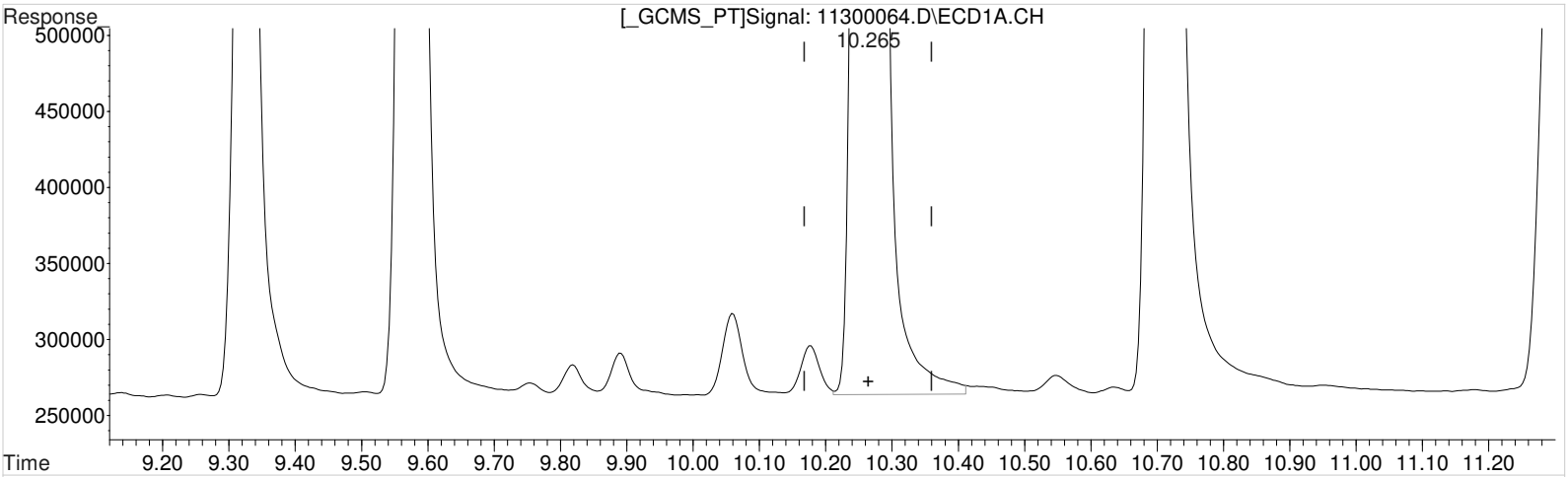
(+) = Expected Retention Time

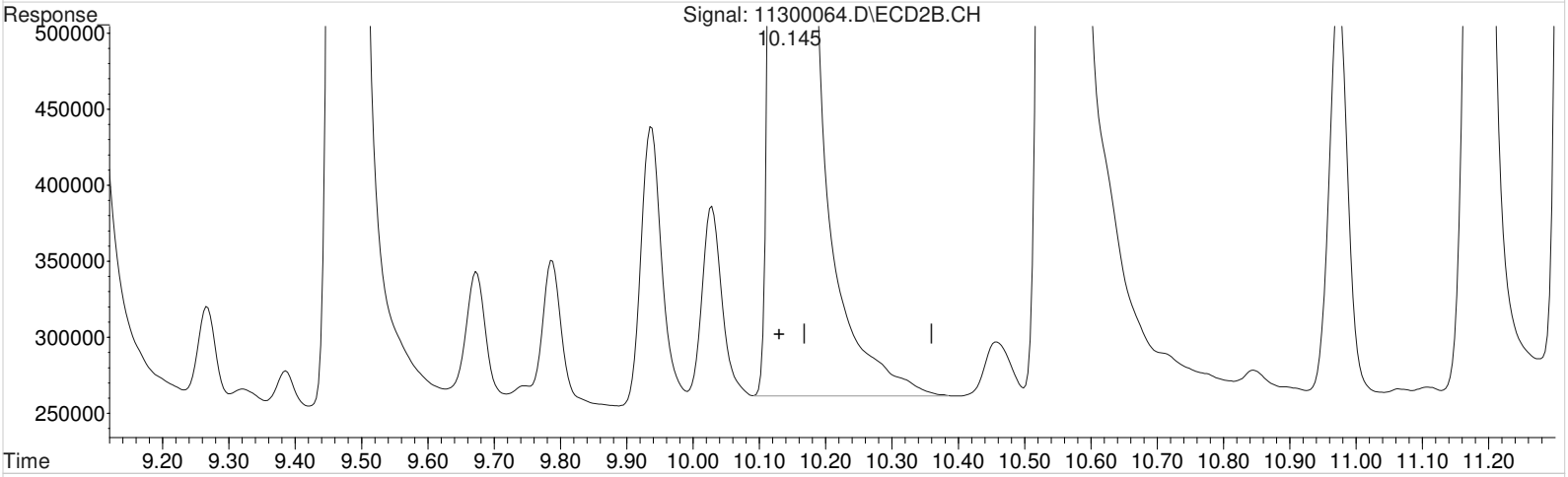
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300064.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 9:44 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.265min 83.997 ppb m

response 7868977

Manual Integration:

Before

12/01/20

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

10.145min 108.754 ppb

response 22076902

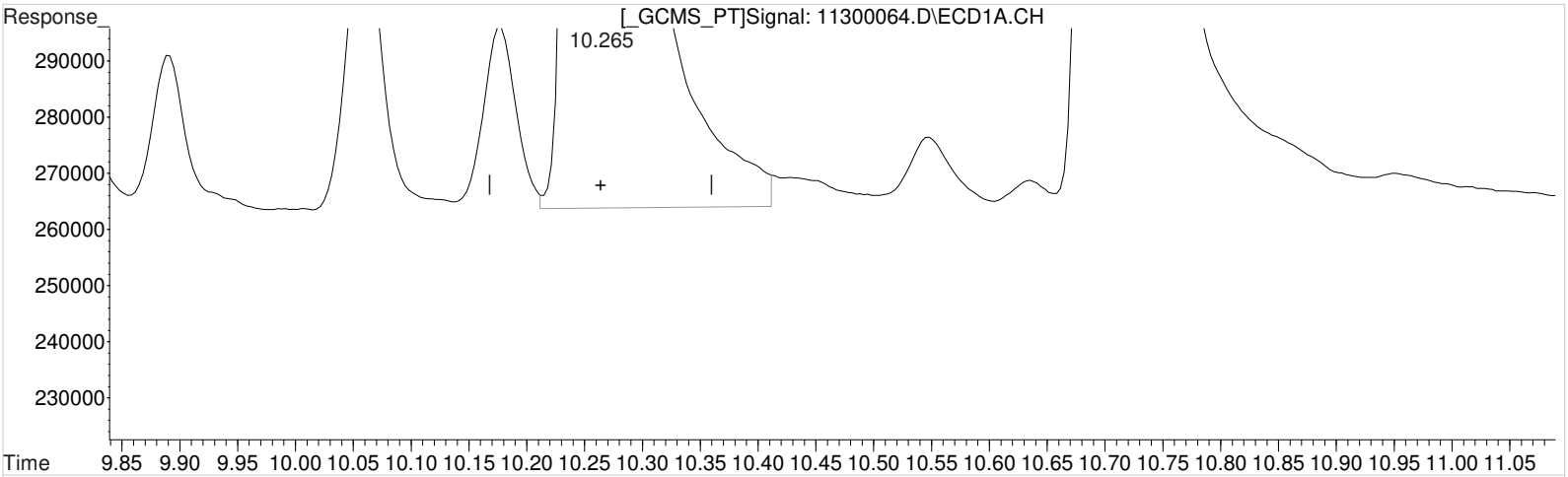
(+) = Expected Retention Time

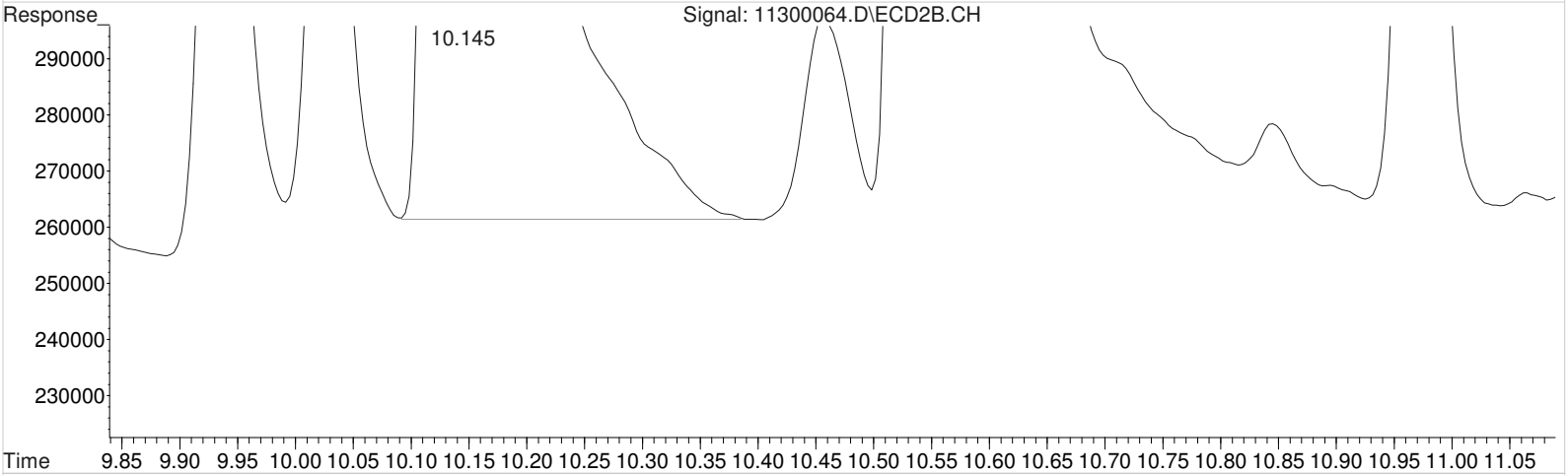
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300064.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 9:44 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.265min 83.997 ppb m

response 7868977

Manual Integration:

After

Baseline/Shoulder

12/01/20

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

10.145min 108.754 ppb

response 22076902

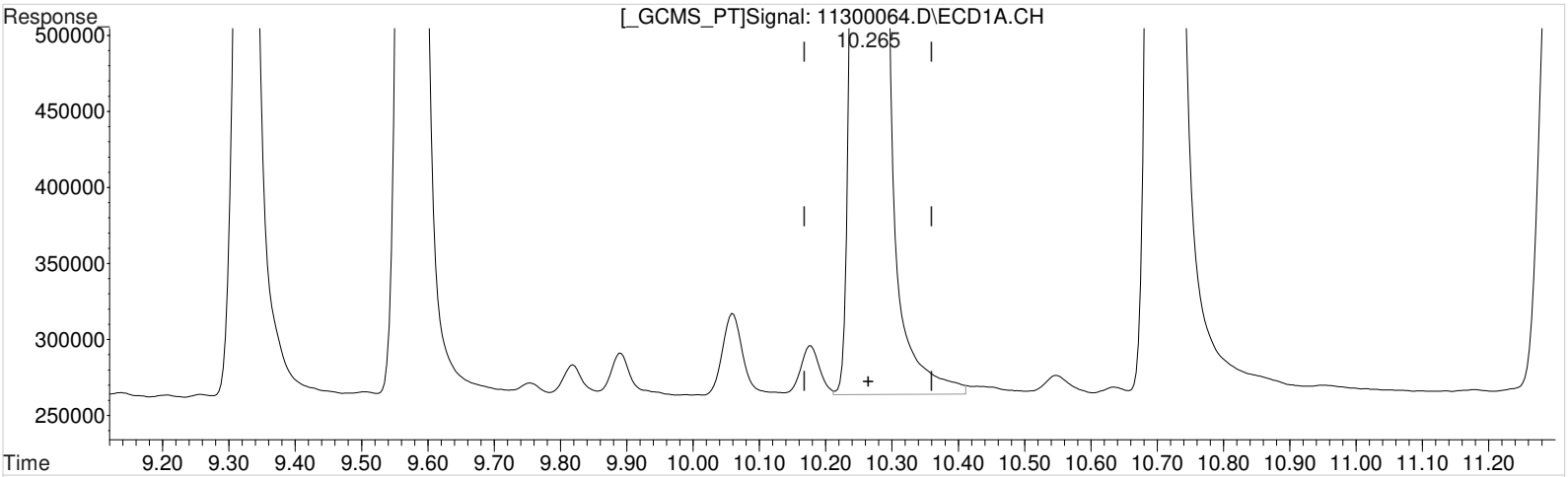
(+) = Expected Retention Time

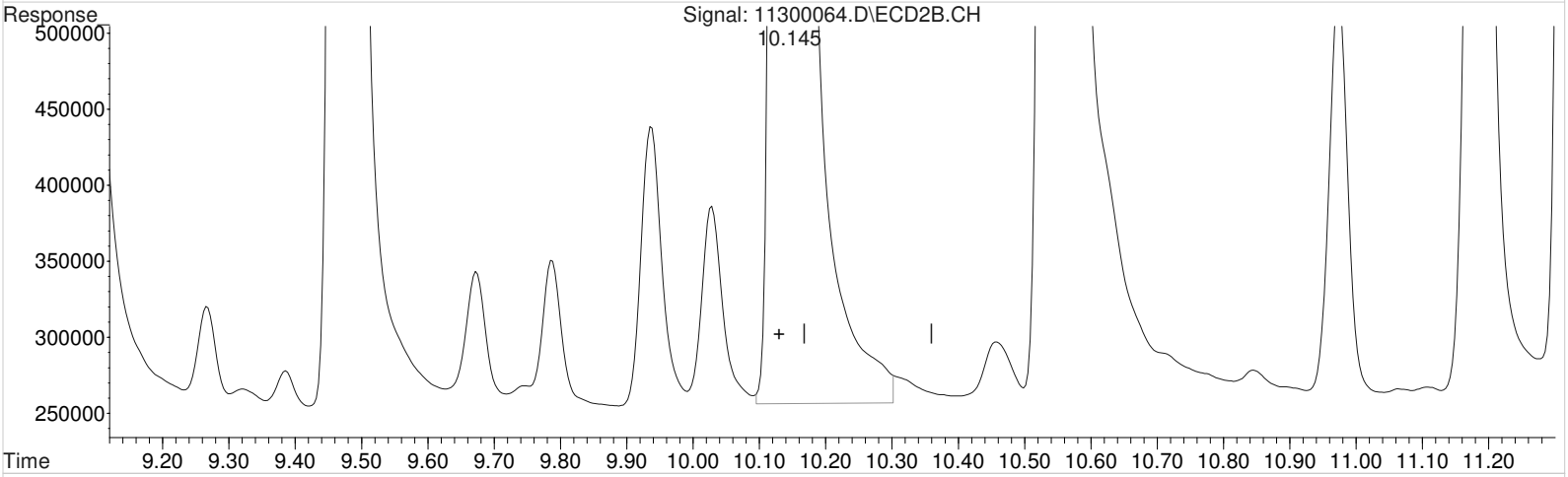
1st 12/01/20
2nd 12/02/20

Data File : J:\gc24\data\113020\11300064.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Dec 2020 9:44 am Operator: UA
Sample : PENTA-2 41C 100C Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 11:01:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.265min 83.997 ppb m

response 7868977

Manual Integration:

After

Baseline/Shoulder

12/01/20

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

10.145min 108.916 ppb m

response 22109776

(+) = Expected Retention Time

Injection Log

Directory: J:\gc24\data\102120

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	100	10210001.d	1.	CCV PRIMER		21 Oct 2020 12:34
2	100	10210002.d	1.	CCV PRIMER		21 Oct 2020 12:58
3	1	10210003.d	1.	IB		Unrecognized:Un
4	3	10210004.d	1.	PENTA2-14K 10PPB		Unrecognized:Un
5	4	10210005.d	1.	PENTA2-14L 25PPB		Unrecognized:Un
6	5	10210006.d	1.	PENTA2-14M 75PPB		Unrecognized:Un
7	6	10210007.d	1.	PENTA2-14N 100PB		Unrecognized:Un
8	7	10210008.d	1.	PENTA2-15A 125PB		Unrecognized:Un
9	8	10210009.d	1.	PENTA2-15B 150PB		Unrecognized:Un
10	9	10210010.d	1.	PENTA2-15C 175PB		Unrecognized:Un
11	10	10210011.d	1.	PENTA2-15D 200PB		Unrecognized:Un
12	11	10210012.d	1.	PENTA2-15E ICV 100 PPB		Unrecognized:Un

ICAL: KC2000566

ALS-Kelso
Initial Calibration Checklist GC

Method: 8151A Herb
ICAL ID or Date: KC2000566
Instrument: GC-24

Primary	Secondary	
☑	☑	The new ICAL is saved with a unique ID.
☑	☑	ICAL was performed continuously (i.e. not interrupted by maintenance event).
☑	☑	All analytes in blank are < ½ MRL.
☑	☑	ICAL contains minimum number of concentrations.
☑	☑	No internal levels excluded for any analytes.
☑	☑	Retention times updated using a midpoint of the calibration. Secondary reviewer doubl check peak IDs.
☑	☑	Calibration files quantitated with new method.
☑	☑	Check integrations. Primary reviewer must check all integrations electronically. Secondary reviewer will check low point and high point electronically.
☑	☑	ICAL files added to calibration table.
☑	☑	The average RF or COD meets method criteria for all analytes.
☑	☑	ICV is quantitated against new ICAL.
☑	☑	ICV meets method criteria.
☑	☑	Linked in ~~Stealth~~ LIMS to an appropriate method. An appropriate method will be one that contains all analytes that were analyzed.
☑	☑	All calibration reports included: ICAL SUMMARY, ICAL DETAILED, ICV SUMMARY.
☑	☑	Enviroquant/Target responses match those in ~~Stealth~~ LIMS.
☑	☑	All quant reports and manual integrations initialed and dated.

Data packet should be in the following order: Sequence log, Calibration Review, Stealth ICAL reports, and quant reports.

Primary: _____ Date: 10-21-20

Secondary: _____ Date: 10/22/20

Response Factor Report HP G1530A

Method Path : J:\gc24\Methods\
Method File : 102120_8151.M
Title : 103118_8151.m MJ215 CAL_KC1800
Last Update : Wed Oct 21 17:31:59 2020
Response Via : Initial Calibration

Calibration Files
1 =10210004.D 2 =10210005.D =
4 =10210006.D 5 =10210007.D 6 =10210008.D

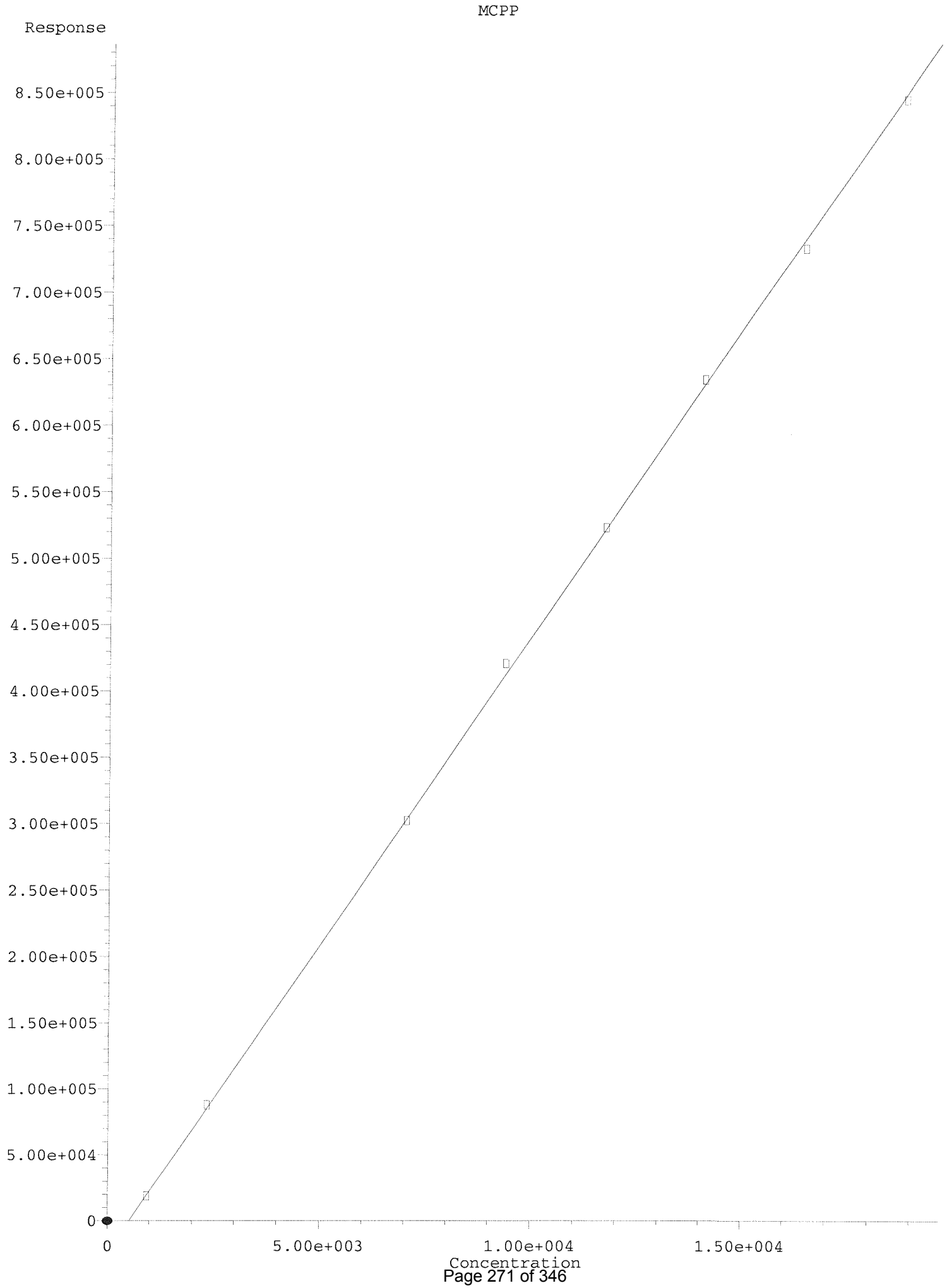
		Compound	1	2	4	5	6	Avg		%RSD
1)	m	Dalapon	2.671	2.733	2.254	2.374	2.344	2.385	2.426 E4	7.29
2)	s	2,4-Dichlorop...	2.115	2.015	1.798	1.794	1.738	1.732	1.820 E4	8.79
3)	m	Dicamba	7.596	7.540	6.777	6.892	6.778	6.830	6.980 E4	5.27
4)	m	MCPP	2.001	3.740	4.291	4.480	4.454	4.501	4.053 E1	21.41
5)	m	MCPA	4.567	6.110	6.022	6.133	6.030	6.046	5.855 E1	8.95
6)	m	Dichloroprop	2.275	2.117	1.795	1.815	1.755	1.752	1.865 E4	11.40
7)	m	2,4-D	2.488	2.377	2.075	2.056	2.029	2.025	2.124 E4	9.25
8)	m	2,4,5-TP (Sil...	9.752	9.790	9.082	9.310	9.221	9.360	9.368 E4	2.80
9)	m	2,4,5-T	8.692	8.723	8.157	8.121	8.142	8.264	8.251 E4	3.64
10)	m	2,4-DB	1.110	1.172	1.003	0.994	1.001	1.003	1.026 E4	7.40
11)	m	Dinoseb	6.933	6.670	6.137	6.031	5.965	6.030	6.187 E4	6.41

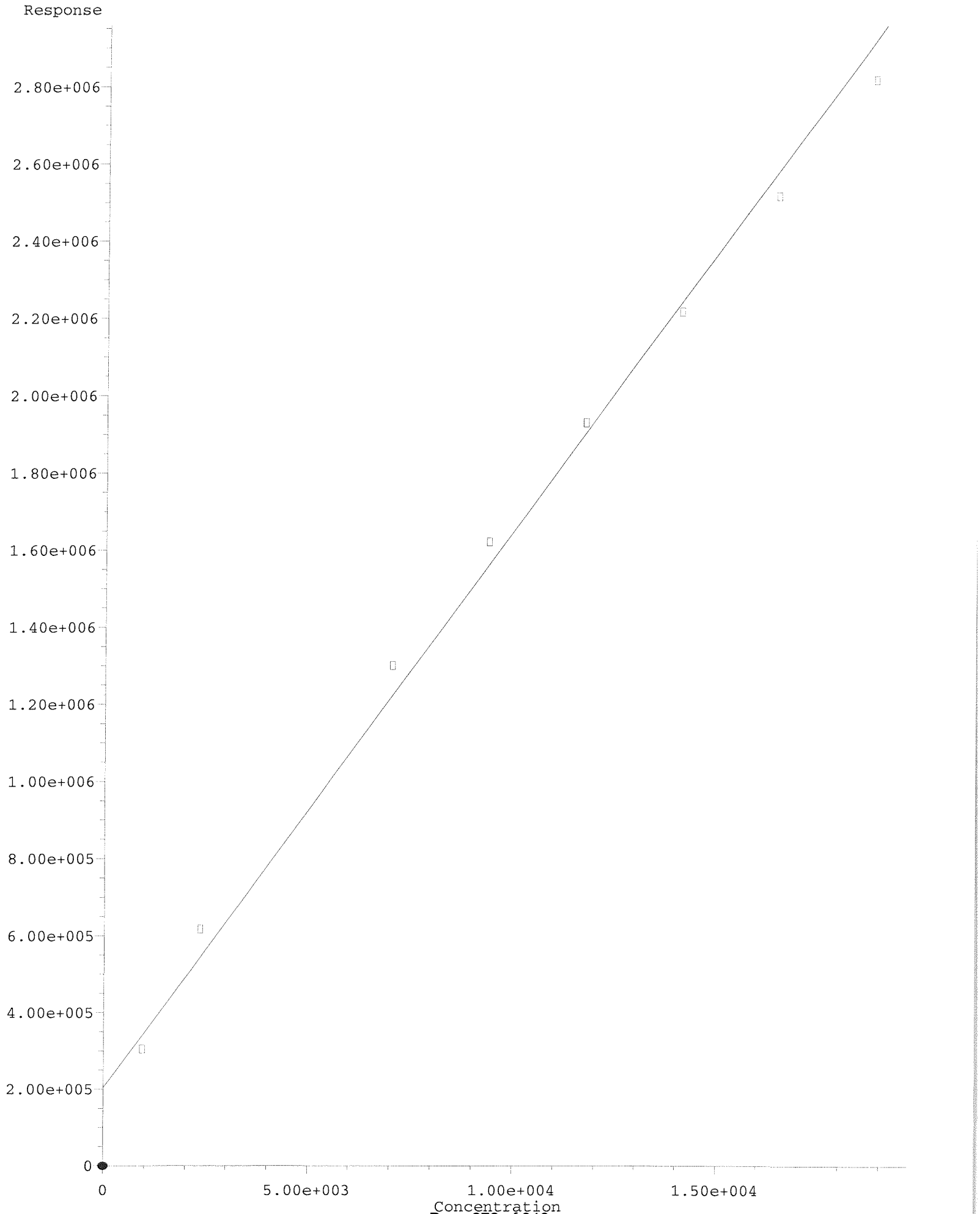
Signal #2 Calibration Files
1 =10210004.D 2 =10210005.D =
4 =10210006.D 5 =10210007.D 6 =10210008.D

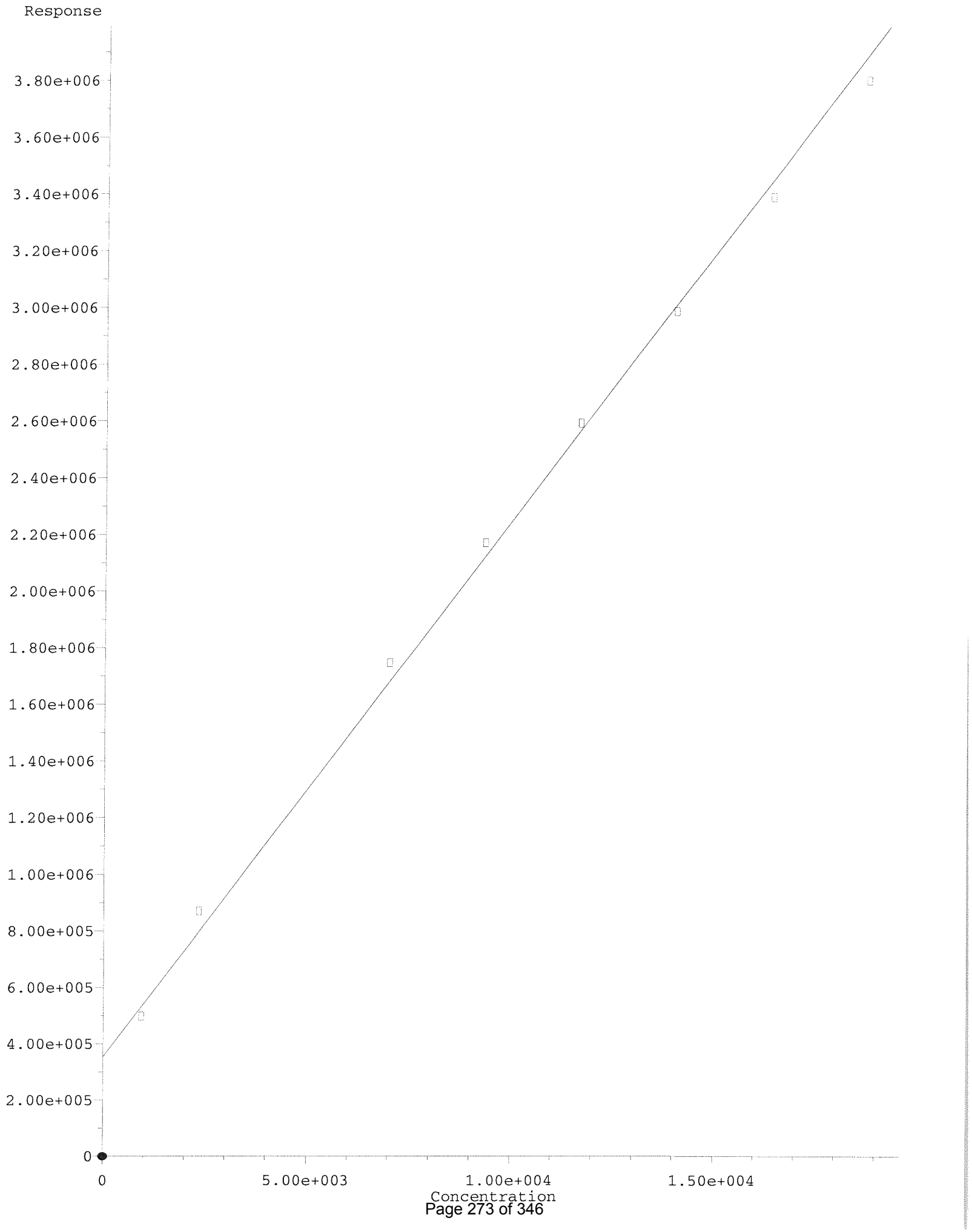
		Compound	1	2	4	5	6	Avg		%RSD
1)	m	Dalapon	5.105	5.207	4.698	4.631	4.838	4.664	4.831 E4	4.39
2)	s	2,4-Dichlorop...	5.587	4.943	4.041	3.953	3.892	3.822	4.230 E4	15.77
3)	m	Dicamba	1.724	1.593	1.424	1.430	1.425	1.416	1.482 E5	7.71
4)	m	MCPP	3.248	2.629	1.847	1.727	1.645	1.574	1.963 E2	32.32
5)	m	MCPA	5.322	3.724	2.492	2.323	2.218	2.130	2.789 E2	41.64
6)	m	Dichloroprop	5.440	4.793	3.993	3.939	3.868	3.809	4.172 E4	14.71
7)	m	2,4-D	6.995	5.929	4.845	4.767	4.681	4.616	5.120 E4	17.22
8)	m	2,4,5-TP (Sil...	2.358	2.178	1.953	1.956	1.949	1.947	2.030 E5	7.62
9)	m	2,4,5-T	2.241	2.074	1.833	1.848	1.821	1.835	1.914 E5	8.20
10)	m	2,4-DB	3.572	3.225	2.779	2.756	2.726	2.732	2.902 E4	11.07
11)	m	Dinoseb	1.678	1.515	1.309	1.301	1.294	1.286	1.368 E5	10.83

(#) = Out of Range ### Number of calibration levels exceeded format ###

102120_8151.M Wed Oct 21 17:48:58 2020


MCPP
Response
8.50e+005
8.00e+005
7.50e+005
7.00e+005
6.50e+005
6.00e+005
5.50e+005
5.00e+005
4.50e+005
4.00e+005
3.50e+005
3.00e+005
2.50e+005
2.00e+005
1.50e+005
1.00e+005
5.00e+004
0
0
5.00e+003
1.00e+004
1.50e+004
Concentration


MCPP #2
Response
2.80e+006
2.60e+006
2.40e+006
2.20e+006
2.00e+006
1.80e+006
1.60e+006
1.40e+006
1.20e+006
1.00e+006
8.00e+005
6.00e+005
4.00e+005
2.00e+005
0
0
5.00e+003
1.00e+004
1.50e+004
Concentration


MCPA #2
Response
3.80e+006
3.60e+006
3.40e+006
3.20e+006
3.00e+006
2.80e+006
2.60e+006
2.40e+006
2.20e+006
2.00e+006
1.80e+006
1.60e+006
1.40e+006
1.20e+006
1.00e+006
8.00e+005
6.00e+005
4.00e+005
2.00e+005
0
0
5.00e+003
1.00e+004
1.50e+004
Concentration

Initial Calibration - Detailed Report

Calibration ID: KC2000566 **Instrument ID:** K-GC-24
Column Name: RTX-CLP2

#	Lab Code	Sample Name	File Location	Aquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D	10/21/2020 16:32

Analyte **Curve Fit** **Weighting**

2,4,5-T

Average RF **RSD = 3.638** **Average RF = 8.251E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.480	8.692E4	02	23.700	8.723E4	03	71.100	8.157E4	04	94.800	8.121E4
05	118.490	8.142E4	06	142.190	8.264E4	07	165.890	7.962E4	08	189.590	7.946E4

2,4,5-TP

Average RF **RSD = 2.798** **Average RF = 9.368E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	9.752E4	02	23.760	9.79E4	03	71.300	9.082E4	04	95.100	9.31E4
05	118.820	9.221E4	06	142.580	9.36E4	07	166.340	9.245E4	08	190.100	9.185E4

2,4-D

Average RF **RSD = 9.253** **Average RF = 2.124E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	2.488E4	02	23.510	2.377E4	03	70.500	2.075E4	04	94.000	2.056E4
05	117.540	2.029E4	06	141.050	2.025E4	07	164.560	1.991E4	08	188.060	1.951E4

2,4-DB

Average RF **RSD = 7.4** **Average RF = 1.026E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.470	1.11E4	02	23.670	1.172E4	03	71.000	1.003E4	04	94.700	9.938E3
05	118.330	1.001E4	06	142.000	1.003E4	07	165.670	9.847E3	08	189.340	9.399E3

Dalapon

Average RF **RSD = 7.292** **Average RF = 2.426E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.110	2.671E4	02	22.770	2.733E4	03	68.300	2.254E4	04	91.100	2.374E4
05	113.830	2.344E4	06	136.600	2.385E4	07	159.360	2.357E4	08	182.130	2.287E4

Dicamba

Average RF **RSD = 5.272** **Average RF = 6.98E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	7.596E4	02	23.510	7.54E4	03	70.500	6.777E4	04	94.000	6.892E4
05	117.540	6.778E4	06	141.050	6.83E4	07	164.560	6.719E4	08	188.060	6.708E4

Dichlorprop

Average RF **RSD = 11.4** **Average RF = 1.865E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.440	2.275E4	02	23.590	2.117E4	03	70.800	1.795E4	04	94.400	1.815E4
05	117.960	1.755E4	06	141.550	1.752E4	07	165.140	1.724E4	08	188.730	1.684E4

Dinoseb

Average RF **RSD = 6.412** **Average RF = 6.187E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.450	6.933E4	02	23.620	6.67E4	03	70.900	6.137E4	04	94.500	6.031E4
05	118.100	5.965E4	06	141.720	6.03E4	07	165.340	5.89E4	08	188.960	5.837E4

Initial Calibration - Detailed Report

Calibration ID: KC2000566 **Instrument ID:** K-GC-24
Column Name: RTX-CLP2

MCPA **Average RF** **RSD = 8.948** **Average RF = 5.855E1**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	934.770	45.67	02	2336.600	61.1	03	7010.000	60.22	04	9346.000	61.33
05	11683.010	60.3	06	14019.610	60.46	07	16356.210	59.76	08	18692.820	59.57

MCPP **Linear** **1/X** **R2 = 0.99984741644702** **Y=46.47 X+-2.364E+04**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	938.770	20.01	02	2346.620	37.4	03	7040.000	42.91	04	9386.000	44.8
05	11733.100	44.54	06	14079.720	45.01	07	16426.340	44.58	08	18772.960	44.98

2,4-Dichlorophenylacetic Acid **Average RF** **RSD = 8.791** **Average RF = 1.82E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	2.115E4	02	22.550	2.015E4	03	67.600	1.798E4	04	90.200	1.794E4
05	112.730	1.738E4	06	135.280	1.732E4	07	157.830	1.694E4	08	180.370	1.67E4

Analyte

2,4,5-T

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.480	9.99	5.3	02	23.700	25.1	5.7	03	71.100	70.3	-1.1
04	94.800	93.3	-1.6	05	118.490	117	-1.3	06	142.190	142	0.2
07	165.890	160	-3.5	08	189.590	183	-3.7				

2,4,5-TP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.510	9.90	4.1	02	23.760	24.8	4.5	03	71.300	69.1	-3.1
04	95.100	94.5	-0.6	05	118.820	117	-1.6	06	142.580	142	-0.1
07	166.340	164	-1.3	08	190.100	186	-2.0				

2,4-D

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	11.0	17.2	02	23.510	26.3	11.9	03	70.500	68.9	-2.3
04	94.000	91.0	-3.2	05	117.540	112	-4.5	06	141.050	134	-4.7
07	164.560	154	-6.3	08	188.060	173	-8.2				

2,4-DB

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.470	10.2	8.2	02	23.670	27.0	14.3	03	71.000	69.4	-2.3
04	94.700	91.7	-3.1	05	118.330	116	-2.4	06	142.000	139	-2.3
07	165.670	159	-4.0	08	189.340	173	-8.4				

Dalapon

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.110	10.0	10.1	02	22.770	25.7	12.7	03	68.300	63.5	-7.1
04	91.100	89.1	-2.1	05	113.830	110	-3.4	06	136.600	134	-1.7
07	159.360	155	-2.8	08	182.130	172	-5.7				

Dicamba

Initial Calibration - Detailed Report

Calibration ID: KC2000566 **Instrument ID:** K-GC-24
Column Name: RTX-CLP2

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	10.2	8.8	02	23.510	25.4	8.0	03	70.500	68.5	-2.9
04	94.000	92.8	-1.3	05	117.540	114	-2.9	06	141.050	138	-2.2
07	164.560	158	-3.7	08	188.060	181	-3.9				

Dichlorprop

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.440	11.5	22.0	02	23.590	26.8	13.5	03	70.800	68.2	-3.7
04	94.400	91.9	-2.7	05	117.960	111	-5.9	06	141.550	133	-6.0
07	165.140	153	-7.6	08	188.730	170	-9.7				

Dinoseb

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.450	10.6	12.1	02	23.620	25.5	7.8	03	70.900	70.3	-0.8
04	94.500	92.1	-2.5	05	118.100	114	-3.6	06	141.720	138	-2.5
07	165.340	157	-4.8	08	188.960	178	-5.6				

MCPA

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	934.770	729	-22.0	02	2336.600	2440	4.4	03	7010.000	7210	2.8
04	9346.000	9790	4.7	05	11683.010	12000	3.0	06	14019.610	14500	3.3
07	16356.210	16700	2.1	08	18692.820	19000	1.7				

MCPP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	938.770	913	-2.8	02	2346.620	2400	2.2	03	7040.000	7010	-0.4
04	9386.000	9560	1.8	05	11733.100	11800	0.2	06	14079.720	14100	0.5
07	16426.340	16300	-1.0	08	18772.960	18700	-0.5				

2,4-Dichlorophenylacetic Acid

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.020	10.5	16.3	02	22.550	25.0	10.7	03	67.600	66.8	-1.2
04	90.200	88.9	-1.4	05	112.730	108	-4.5	06	135.280	129	-4.8
07	157.830	147	-6.9	08	180.370	166	-8.2				

Calibration ID: KC2000566 **Instrument ID:** K-GC-24
Column Name: ZB-XLB-HT

Initial Calibration - Detailed Report

Calibration ID: KC2000566 **Instrument ID:** K-GC-24
Column Name: ZB-XLB-HT

#	Lab Code	Sample Name	File Location	Aquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D\10210004c.d	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D\10210005c.d	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D\10210006c.d	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D\10210007c.d	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D\10210008c.d	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D\10210009c.d	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D\10210010c.d	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D\10210011c.d	10/21/2020 16:32

Analyte **Curve Fit** **Weighting**

2,4,5-T

Average RF **RSD = 8.204** **Average RF = 1.914E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.480	2.241E5	02	23.700	2.074E5	03	71.100	1.833E5	04	94.800	1.848E5
05	118.490	1.821E5	06	142.190	1.835E5	07	165.890	1.828E5	08	189.590	1.83E5

2,4,5-TP

Average RF **RSD = 7.62** **Average RF = 2.03E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	2.358E5	02	23.760	2.178E5	03	71.300	1.953E5	04	95.100	1.956E5
05	118.820	1.949E5	06	142.580	1.947E5	07	166.340	1.946E5	08	190.100	1.952E5

2,4-D

Average RF **RSD = 17.22** **Average RF = 5.12E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	6.995E4	02	23.510	5.929E4	03	70.500	4.845E4	04	94.000	4.767E4
05	117.540	4.681E4	06	141.050	4.616E4	07	164.560	4.575E4	08	188.060	4.551E4

2,4-DB

Average RF **RSD = 11.07** **Average RF = 2.902E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.470	3.572E4	02	23.670	3.225E4	03	71.000	2.779E4	04	94.700	2.756E4
05	118.330	2.726E4	06	142.000	2.732E4	07	165.670	2.706E4	08	189.340	2.717E4

Dalapon

Average RF **RSD = 4.39** **Average RF = 4.831E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.110	5.105E4	02	22.770	5.207E4	03	68.300	4.698E4	04	91.100	4.631E4
05	113.830	4.838E4	06	136.600	4.664E4	07	159.360	4.774E4	08	182.130	4.733E4

Dicamba

Average RF **RSD = 7.713** **Average RF = 1.482E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	1.724E5	02	23.510	1.593E5	03	70.500	1.424E5	04	94.000	1.43E5
05	117.540	1.425E5	06	141.050	1.416E5	07	164.560	1.42E5	08	188.060	1.426E5

Dichlorprop

Average RF **RSD = 14.71** **Average RF = 4.172E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.440	5.44E4	02	23.590	4.793E4	03	70.800	3.993E4	04	94.400	3.939E4
05	117.960	3.868E4	06	141.550	3.809E4	07	165.140	3.779E4	08	188.730	3.751E4

Dinoseb

Average RF **RSD = 10.83** **Average RF = 1.368E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.450	1.678E5	02	23.620	1.515E5	03	70.900	1.309E5	04	94.500	1.301E5
05	118.100	1.294E5	06	141.720	1.286E5	07	165.340	1.279E5	08	188.960	1.278E5

Initial Calibration - Detailed Report

Calibration ID: KC2000566 **Instrument ID:** K-GC-24
Column Name: ZB-XLB-HT

MCPA **Linear** **1/X** **R2 = 0.9970434185726530** **Y=189.2 X+3.555E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	934.770	532.2	02	2336.600	372.4	03	7010.000	249.2	04	9346.000	232.3
05	11683.010	221.8	06	14019.610	213	07	16356.210	207.2	08	18692.820	203.3

MCPP **Linear** **1/X** **R2 = 0.9944121406118910** **Y=144.7 X+2.053E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	938.770	324.8	02	2346.620	262.9	03	7040.000	184.7	04	9386.000	172.7
05	11733.100	164.5	06	14079.720	157.4	07	16426.340	153.2	08	18772.960	150.1

2,4-Dichlorophenylacetic Acid **Average RF** **RSD = 15.77** **Average RF = 4.23E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	5.587E4	02	22.550	4.943E4	03	67.600	4.041E4	04	90.200	3.953E4
05	112.730	3.892E4	06	135.280	3.822E4	07	157.830	3.814E4	08	180.370	3.787E4

Analyte

2,4,5-T

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.480	11.1	17.1	02	23.700	25.7	8.4	03	71.100	68.1	-4.2
04	94.800	91.6	-3.4	05	118.490	113	-4.8	06	142.190	136	-4.1
07	165.890	159	-4.5	08	189.590	181	-4.4				

2,4,5-TP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.510	11.0	16.2	02	23.760	25.5	7.3	03	71.300	68.6	-3.8
04	95.100	91.6	-3.7	05	118.820	114	-4.0	06	142.580	137	-4.1
07	166.340	159	-4.2	08	190.100	183	-3.8				

2,4-D

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	12.8	**36.6**	02	23.510	27.2	15.8	03	70.500	66.7	-5.4
04	94.000	87.5	-6.9	05	117.540	107	-8.6	06	141.050	127	-9.8
07	164.560	147	-10.6	08	188.060	167	-11.1				

2,4-DB

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.470	11.7	23.1	02	23.670	26.3	11.2	03	71.000	68.0	-4.2
04	94.700	90.0	-5.0	05	118.330	111	-6.1	06	142.000	134	-5.8
07	165.670	154	-6.8	08	189.340	177	-6.4				

Dalapon

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.110	9.63	5.7	02	22.770	24.5	7.8	03	68.300	66.4	-2.8
04	91.100	87.3	-4.1	05	113.830	114	0.1	06	136.600	132	-3.5
07	159.360	157	-1.2	08	182.130	178	-2.0				

Dicamba

Initial Calibration Verification Summary Report

Calibration ID:	KC2000566	**Instrument ID:**	K-GC-24
Datafile ID:	J:\gc24\data\102120\10210012.D	**Column Name:**	ZB-XLB-HT

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
2,4,5-T	KC2000566-09	T	Average RF	94.80	98.768	ppb	4.2	<= 20
2,4,5-TP	KC2000566-09	T	Average RF	95.10	92.500	ppb	-2.7	<= 20
2,4-D	KC2000566-09	T	Average RF	94	83.643	ppb	-11.0	<= 20
2,4-DB	KC2000566-09	T	Average RF	94.70	95.240	ppb	0.6	<= 20
Dalapon	KC2000566-09	T	Average RF	91.10	95.982	ppb	5.4	<= 20
Dicamba	KC2000566-09	T	Average RF	94	96.106	ppb	2.2	<= 20
Dichlorprop	KC2000566-09	T	Average RF	94.40	85.597	ppb	-9.3	<= 20
Dinoseb	KC2000566-09	T	Average RF	94.50	94.362	ppb	-0.1	<= 20
MCPA	KC2000566-09	T	Linear	9346	10030.937	ppb	7.3	<= 20
MCPP	KC2000566-09	T	Linear	9386	10136.279	ppb	8.0	<= 20

Calibration ID:	KC2000566	**Instrument ID:**	K-GC-24
Datafile ID:	J:\gc24\data\102120\10210012.D	**Column Name:**	RTX-CLP2

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
2,4,5-T	KC2000566-09	T	Average RF	94.80	98.209	ppb	3.6	<= 20
2,4,5-TP	KC2000566-09	T	Average RF	95.10	93.370	ppb	-1.8	<= 20
2,4-D	KC2000566-09	T	Average RF	94	90.423	ppb	-3.8	<= 20
2,4-DB	KC2000566-09	T	Average RF	94.70	93.935	ppb	-0.8	<= 20
Dalapon	KC2000566-09	T	Average RF	91.10	93.788	ppb	3.0	<= 20
Dicamba	KC2000566-09	T	Average RF	94	95.894	ppb	2.0	<= 20
Dichlorprop	KC2000566-09	T	Average RF	94.40	86.318	ppb	-8.6	<= 20
Dinoseb	KC2000566-09	T	Average RF	94.50	95.003	ppb	0.5	<= 20
MCPA	KC2000566-09	T	Average RF	9346	10069.096	ppb	7.7	<= 20
MCPP	KC2000566-09	T	Linear	9386	9672.717	ppb	3.1	<= 20

Initial Calibration - Detailed Report

Calibration ID: KC2000566 **Instrument ID:** K-GC-24
Column Name: ZB-XLB-HT

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	10.9	16.3	02	23.510	25.3	7.5	03	70.500	67.7	-3.9
04	94.000	90.7	-3.5	05	117.540	113	-3.9	06	141.050	135	-4.5
07	164.560	158	-4.2	08	188.060	181	-3.8				

Dichlorprop

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.440	12.3	**30.4**	02	23.590	27.1	14.9	03	70.800	67.8	-4.3
04	94.400	89.1	-5.6	05	117.960	109	-7.3	06	141.550	129	-8.7
07	165.140	150	-9.4	08	188.730	170	-10.1				

Dinoseb

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.450	11.6	22.7	02	23.620	26.2	10.8	03	70.900	67.9	-4.2
04	94.500	89.9	-4.8	05	118.100	112	-5.4	06	141.720	133	-6.0
07	165.340	155	-6.5	08	188.960	177	-6.5				

MCPA

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	934.770	750	-19.7	02	2336.600	2720	16.4	03	7010.000	7350	4.9
04	9346.000	9600	2.7	05	11683.010	11800	1.1	06	14019.610	13900	-0.8
07	16356.210	16000	-2.0	08	18692.820	18200	-2.6				

MCPP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	938.770	689	-26.6	02	2346.620	2840	21.2	03	7040.000	7570	7.5
04	9386.000	9780	4.2	05	11733.100	11900	1.6	06	14079.720	13900	-1.3
07	16426.340	16000	-2.8	08	18772.960	18100	-3.8				

2,4-Dichlorophenylacetic Acid

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.020	11.9	**32.1**	02	22.550	26.4	16.9	03	67.600	64.6	-4.5
04	90.200	84.3	-6.5	05	112.730	104	-8.0	06	135.280	122	-9.7
07	157.830	142	-9.8	08	180.370	161	-10.5				

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210003.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:22 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:46:26 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	8.009	7.829	7280	43923	0.400	1.038	#
		Target Compounds							
1)	m	Dalapon	3.136	2.865	9965	74917	0.411	1.551	#
3)	m	Dicamba	8.209	7.905	29172	27129	0.418	0.183	#
4)	m	MCPP	0.000	8.082	0	2122	N.D.	N.D.	
5)	m	MCPA	8.552	8.362	2704	44075	46.181	N.D.	#
6)	m	Dichloroprop	8.939	8.758	23826	6916	1.278	0.166	#
7)	m	2,4-D	9.349	0.000	6880	0	0.324	N.D.	d#
8)	m	2,4,5-TP ...	10.259	10.129	9196	34595	0.098	0.170	#
9)	m	2,4,5-T	10.709	10.539	13577	43959	0.165	0.230	#
10)	m	2,4-DB	0.000	11.139	0	3230	N.D. d	0.111	
11)	m	Dinoseb	11.682	11.315	11024	25541	0.178	0.187	

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

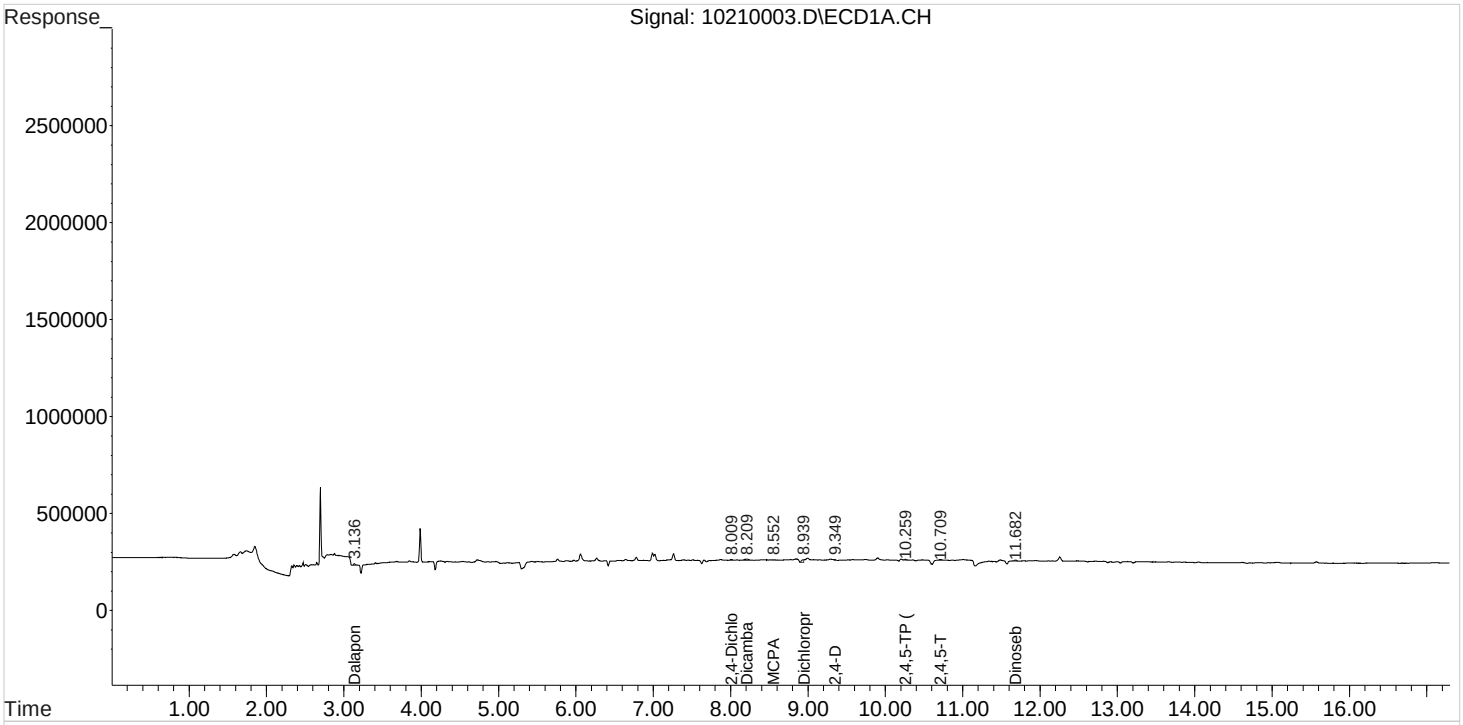
Quantitation Report (QT Reviewed)

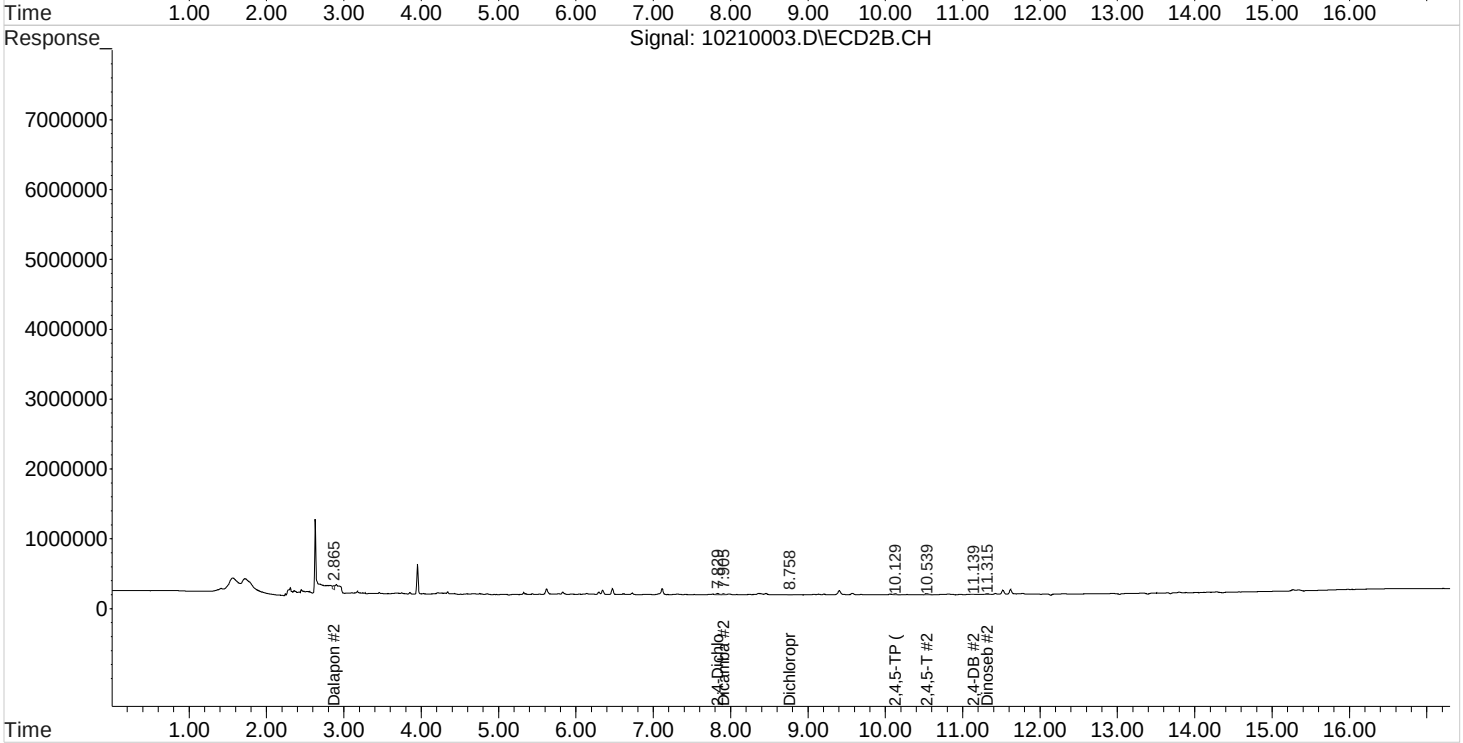
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210003.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:22 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:46:26 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:30:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.997	7.820	190814	503954	10.736	12.487	
		Target Compounds							
1)	m	Dalapon	3.127	2.873	243340	465074	10.178	9.705	
3)	m	Dicamba	8.217	7.920	714045	1620262	10.361m	11.193	
4)	m	MCPP	8.300	8.106	18782	304912	432.162	1713.825	#
5)	m	MCPA	8.567	8.353	42691	497459	706.888	2049.337	#
6)	m	Dichloroprop	8.967	8.753	214760	513503	11.890	12.869	
7)	m	2,4-D	9.330	9.066	233900	657519	11.289	13.552	
8)	m	2,4,5-TP ...	10.263	10.130	927413	2242551	9.958m	11.308	
9)	m	2,4,5-T	10.710	10.536	823973	2124220	10.063	11.378	
10)	m	2,4-DB	11.290	11.173	105152	338252	10.371m	12.055	
11)	m	Dinoseb	11.683	11.316	655169	1585317	10.776m	11.980	

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

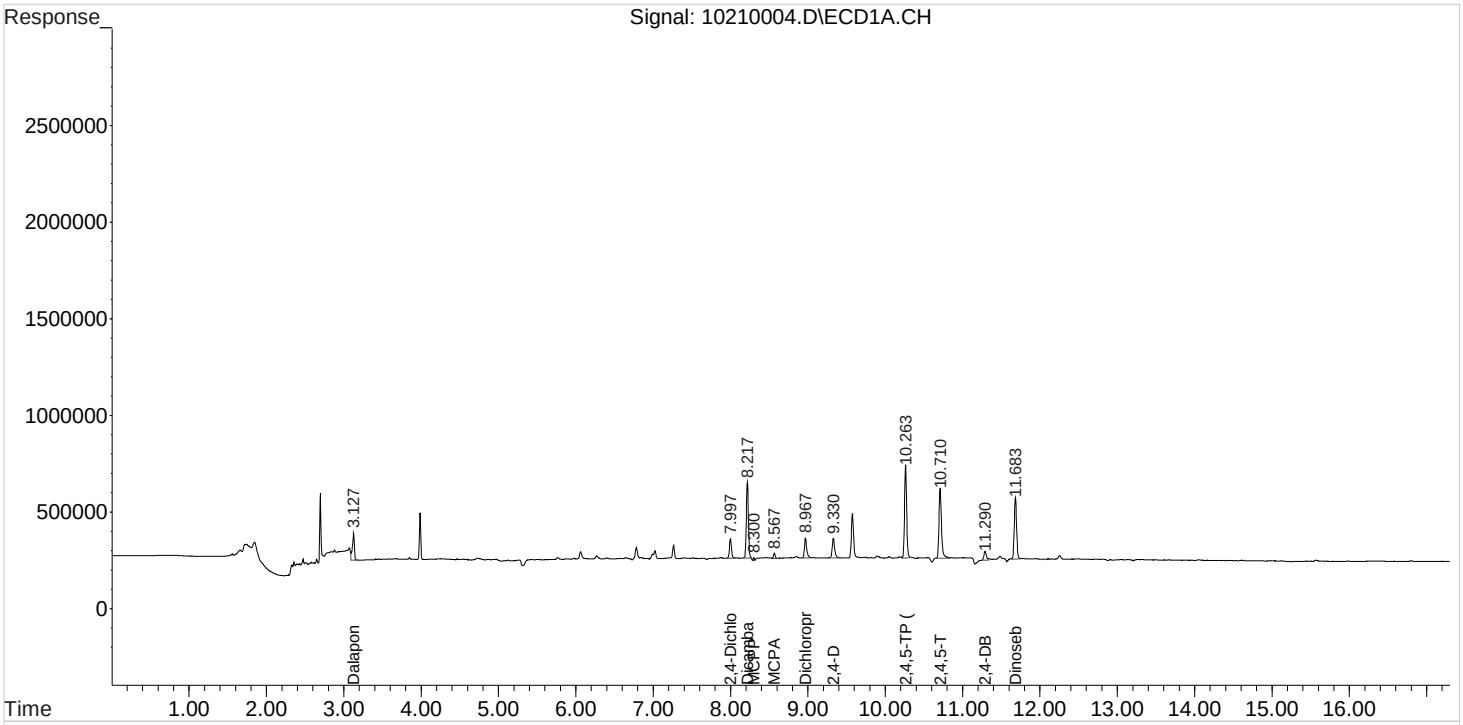
Quantitation Report (QT Reviewed)

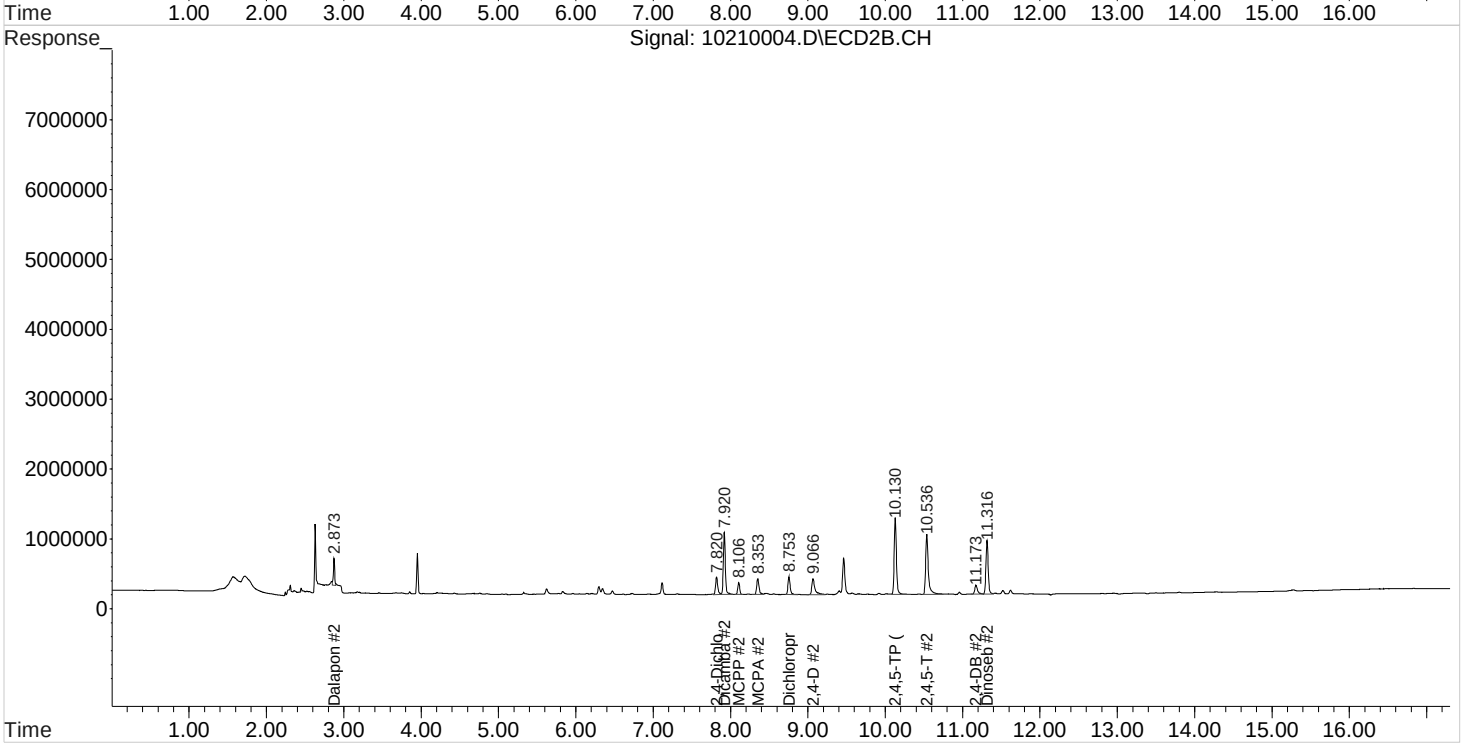
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:30:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





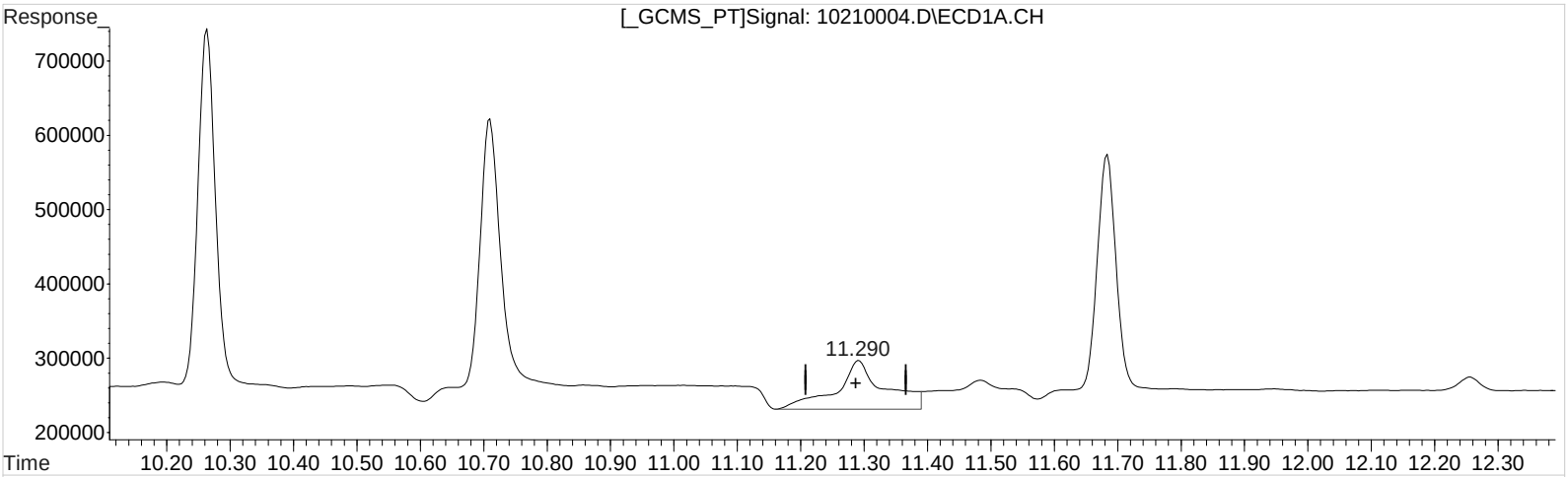
Quantitation Report (Qedit)

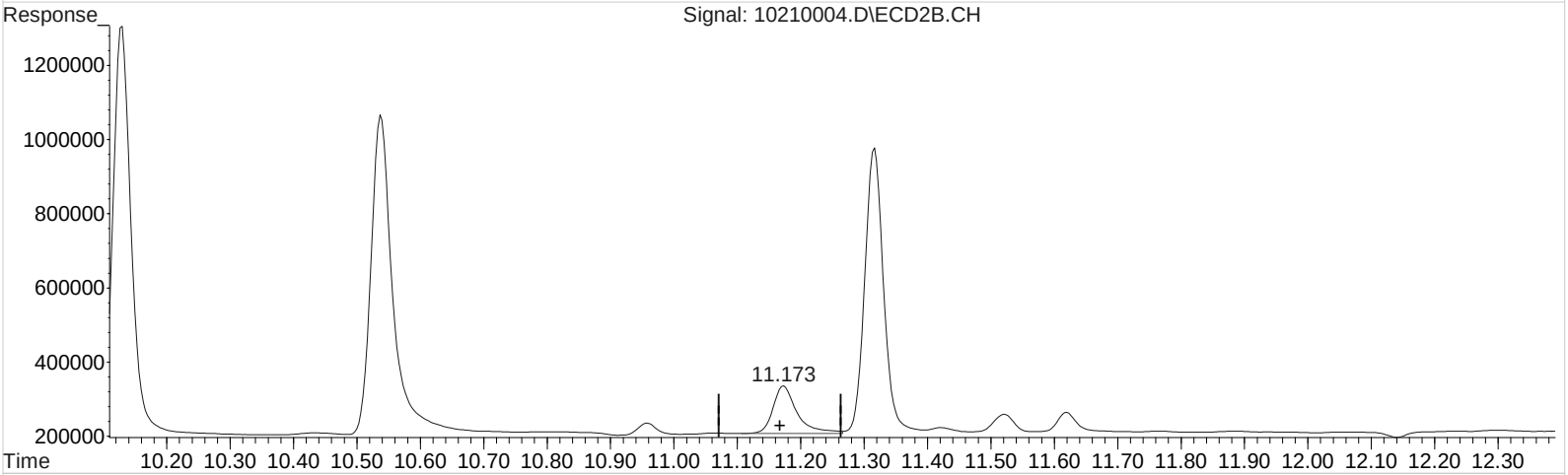
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.290min 34.659 ppb

response 351402

Manual Integration:

Before

10/21/20

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

11.173min 12.055 ppb

response 338252

(+) = Expected Retention Time

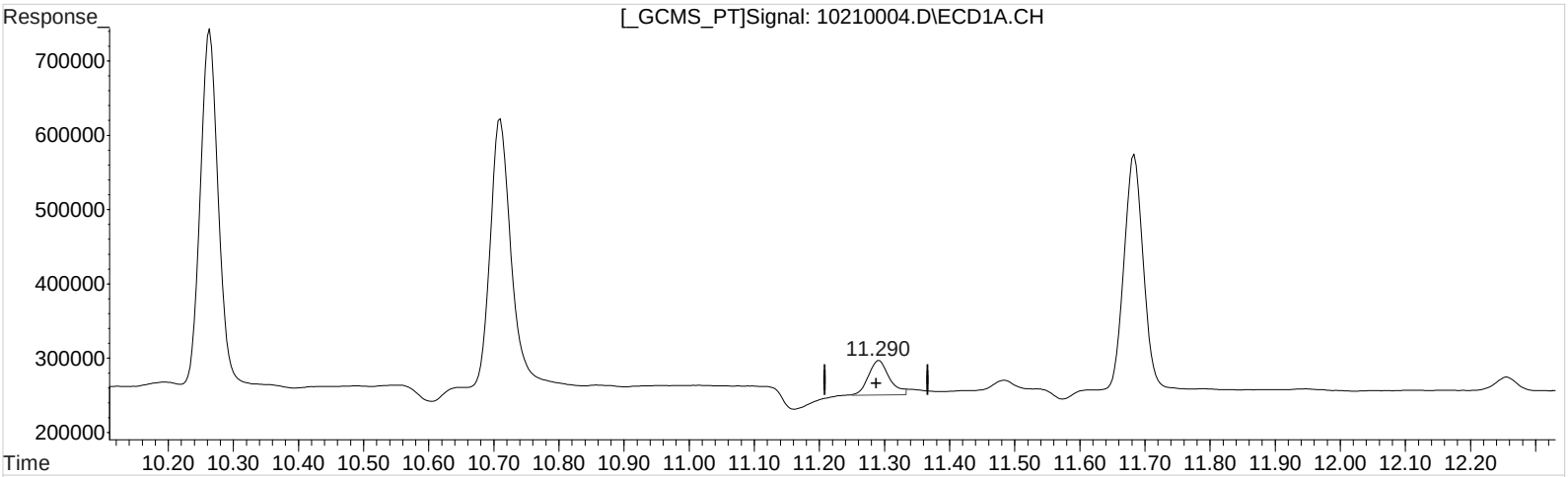
Quantitation Report (Qedit)

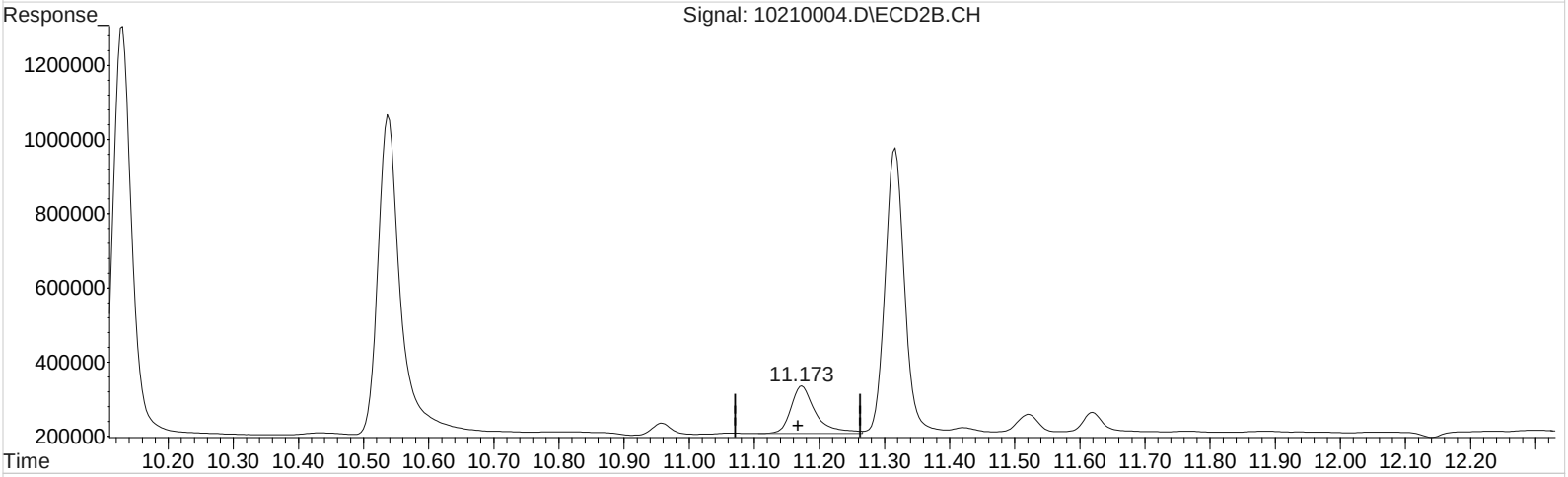
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.290min 10.371 ppb m

response 105152

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

11.173min 12.055 ppb

response 338252

Manual Integration:

After

Baseline/Shoulder

10/21/20

(+) = Expected Retention Time

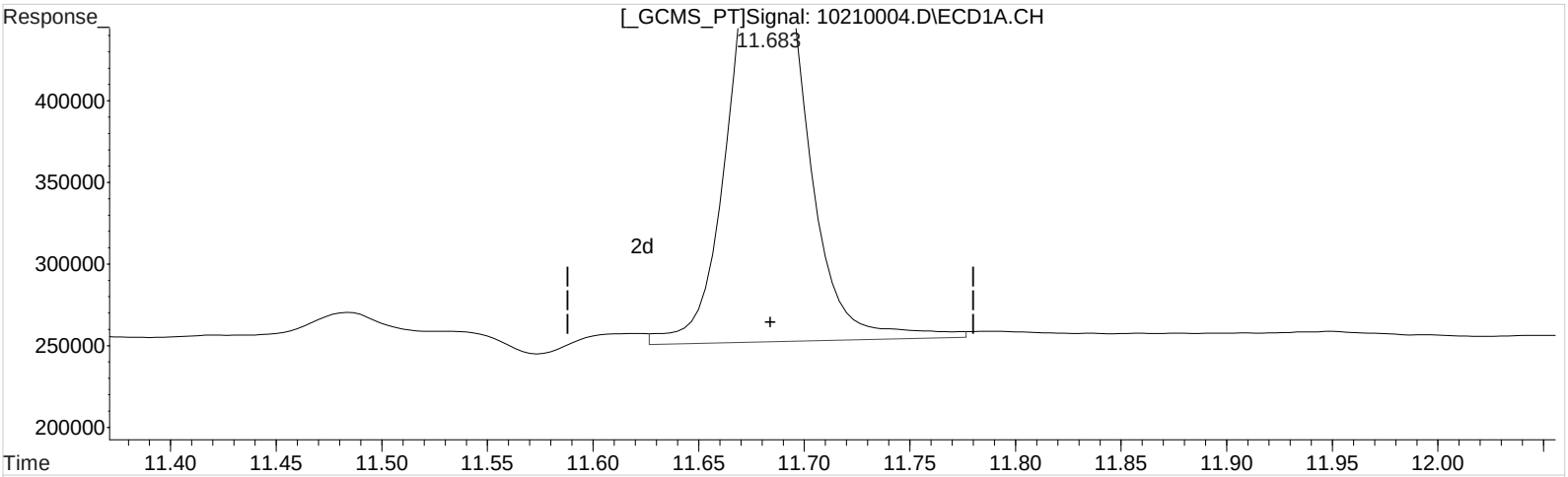
Quantitation Report (Qedit)

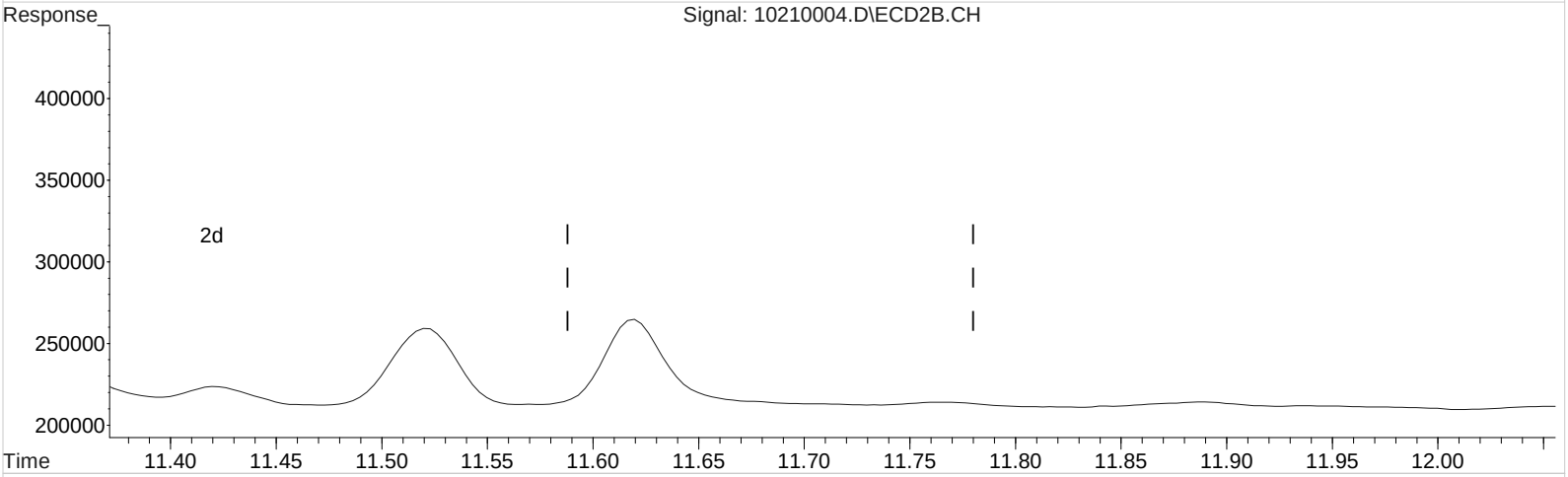
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(11) Dinoseb (m)

11.683min 11.414 ppb

response 693954

(11) Dinoseb #2 (m)

11.316min 11.980 ppb

response 1585317

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

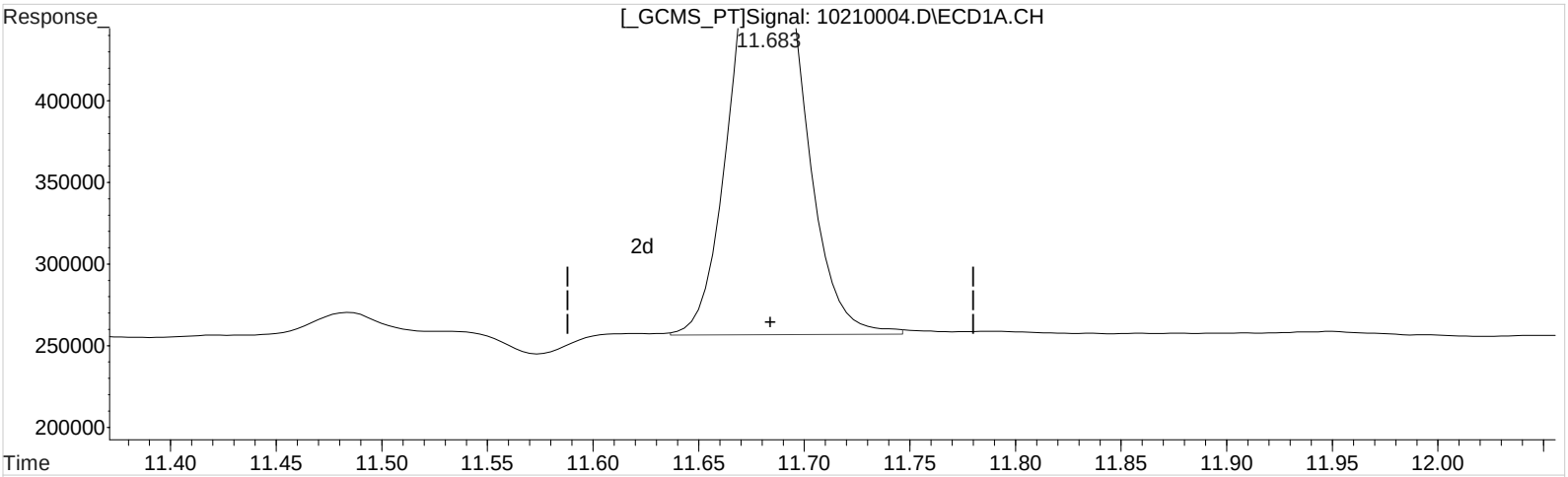
Quantitation Report (Qedit)

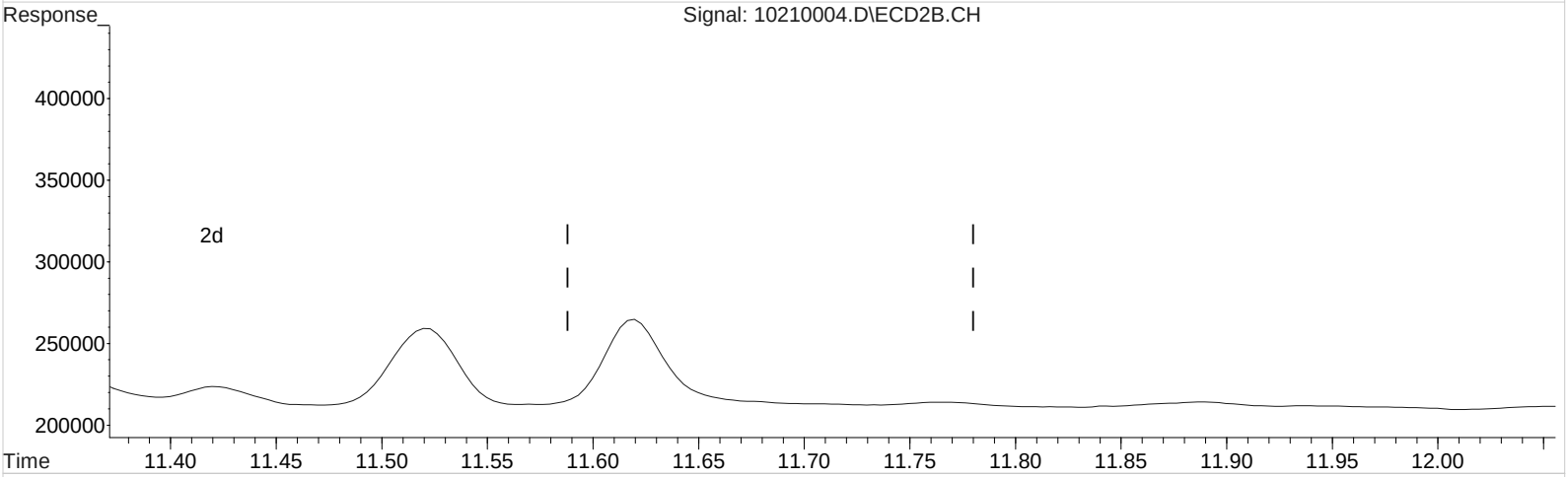
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(11) Dinoseb (m)

11.683min 10.776 ppb m

response 655169

Manual Integration:

After

Baseline/Shoulder

10/21/20

(11) Dinoseb #2 (m)

11.316min 11.980 ppb

response 1585317

(+) = Expected Retention Time

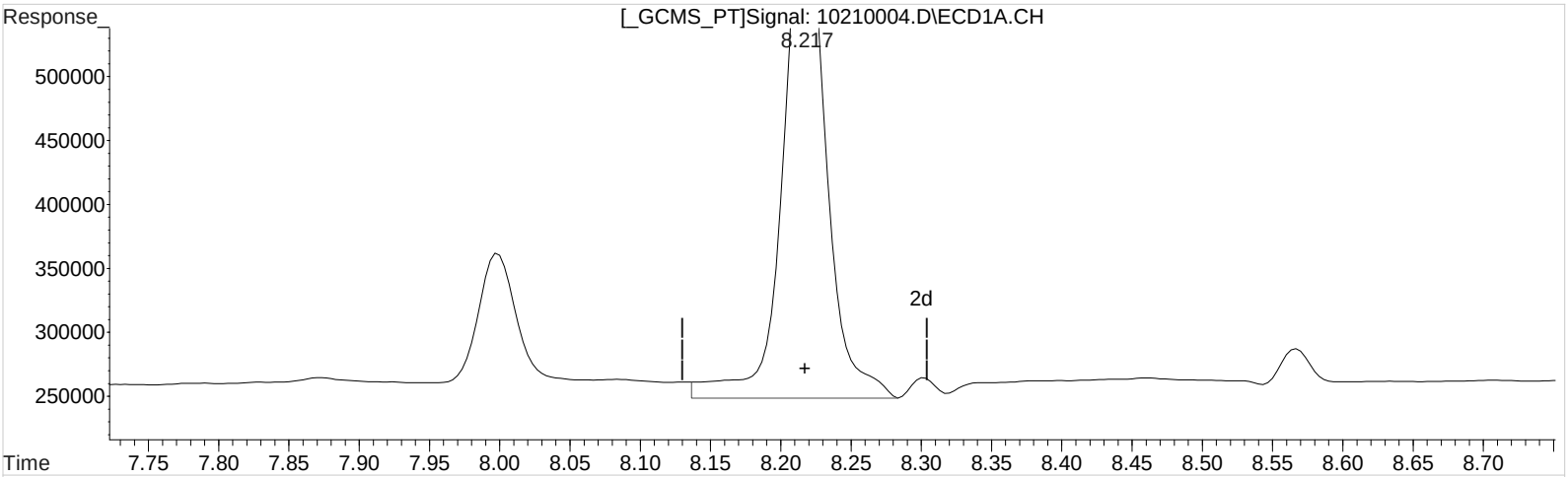
Quantitation Report (Qedit)

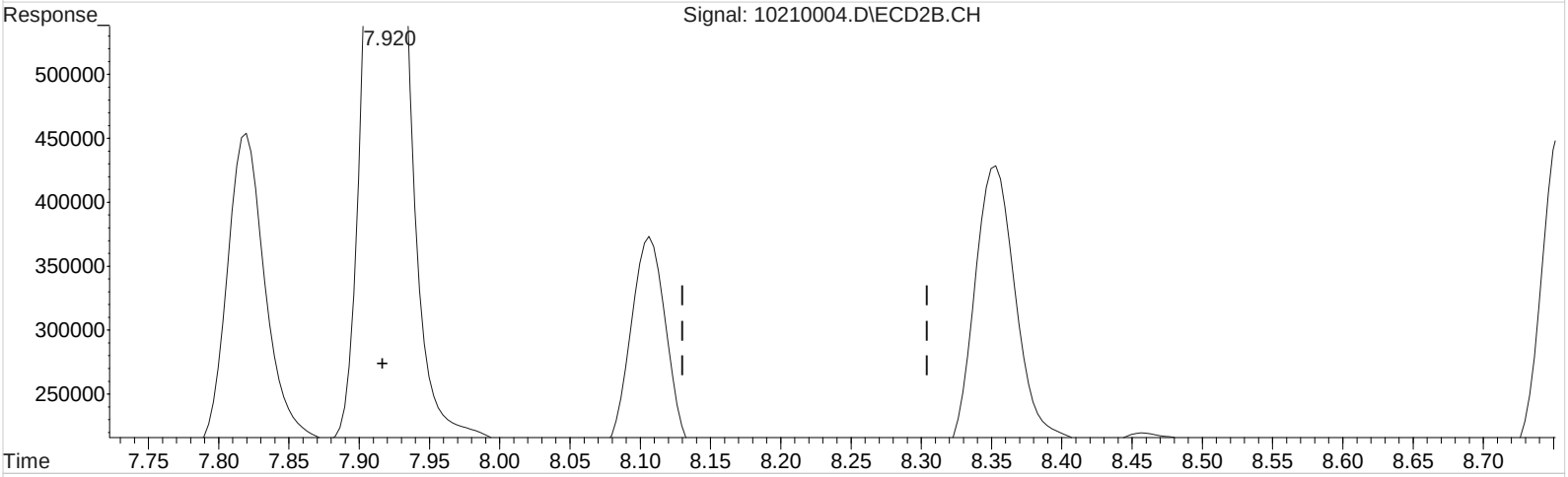
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(3) Dicamba (m)

8.217min 12.005 ppb

response 827399

(3) Dicamba #2 (m)

7.920min 11.193 ppb

response 1620262

Manual Integration:

Before

10/21/20

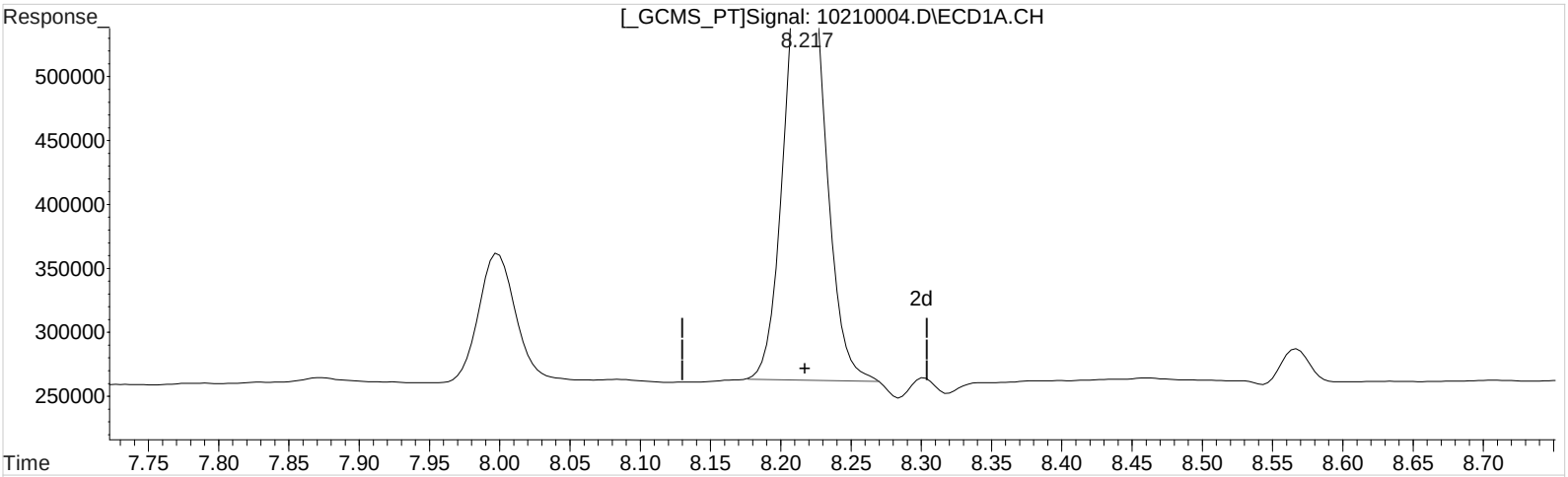
(+) = Expected Retention Time

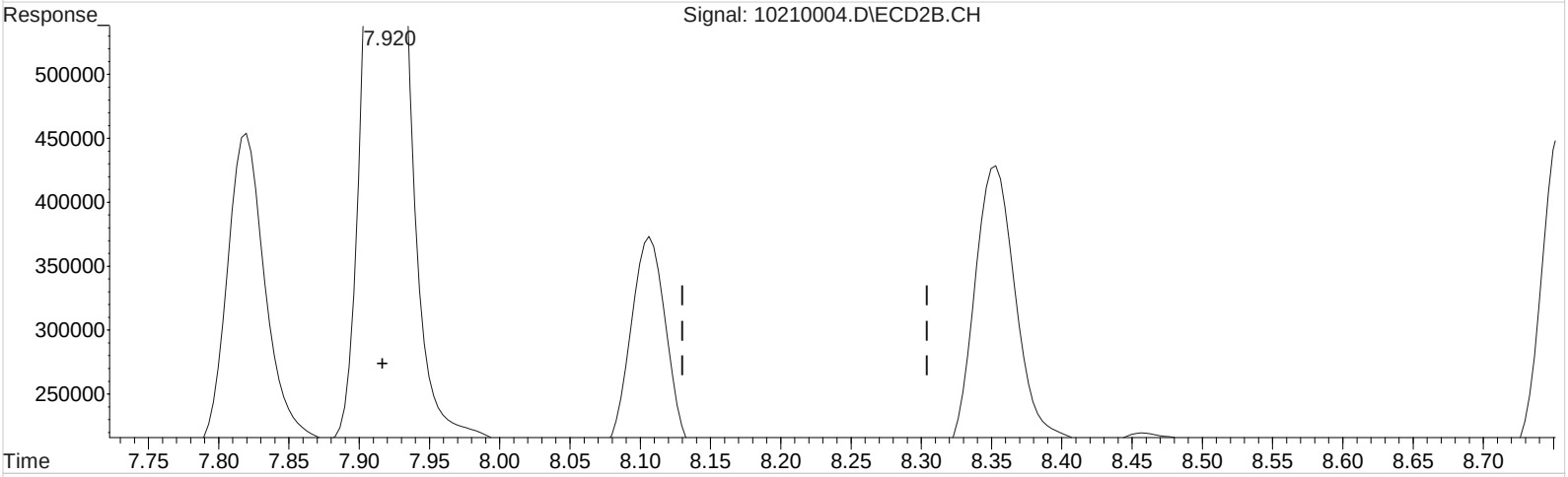
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(3) Dicamba (m)

8.217min 10.361 ppb m

response 714045

Manual Integration:

After

Baseline/Shoulder

10/21/20

(3) Dicamba #2 (m)

7.920min 11.193 ppb

response 1620262

(+) = Expected Retention Time

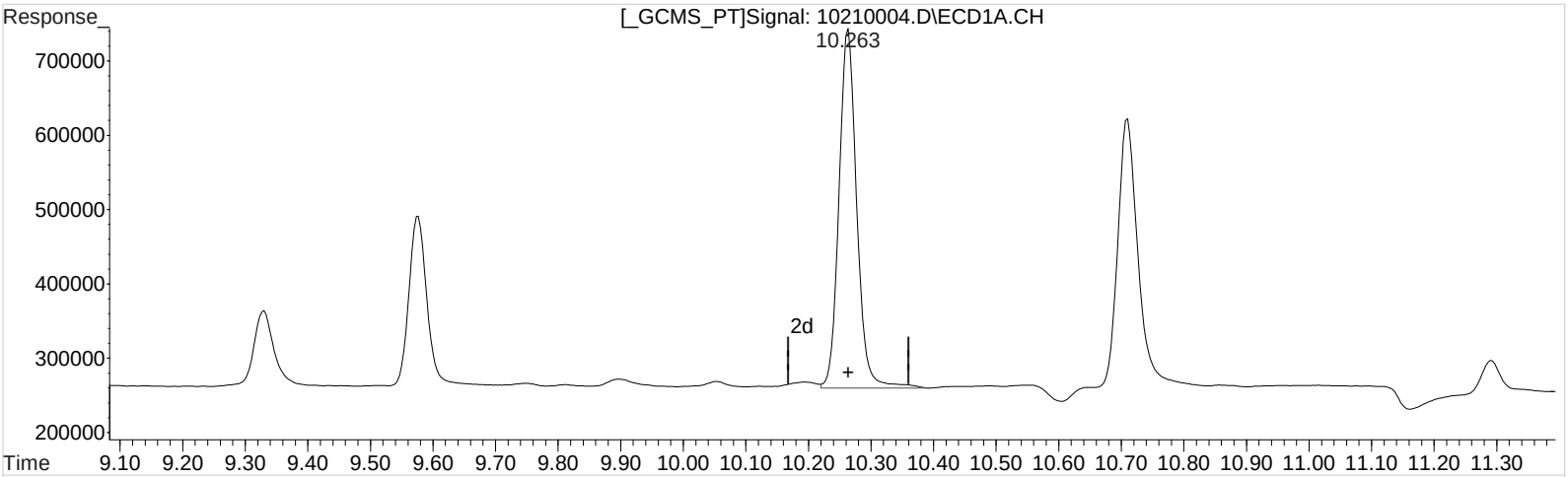
Quantitation Report (Qedit)

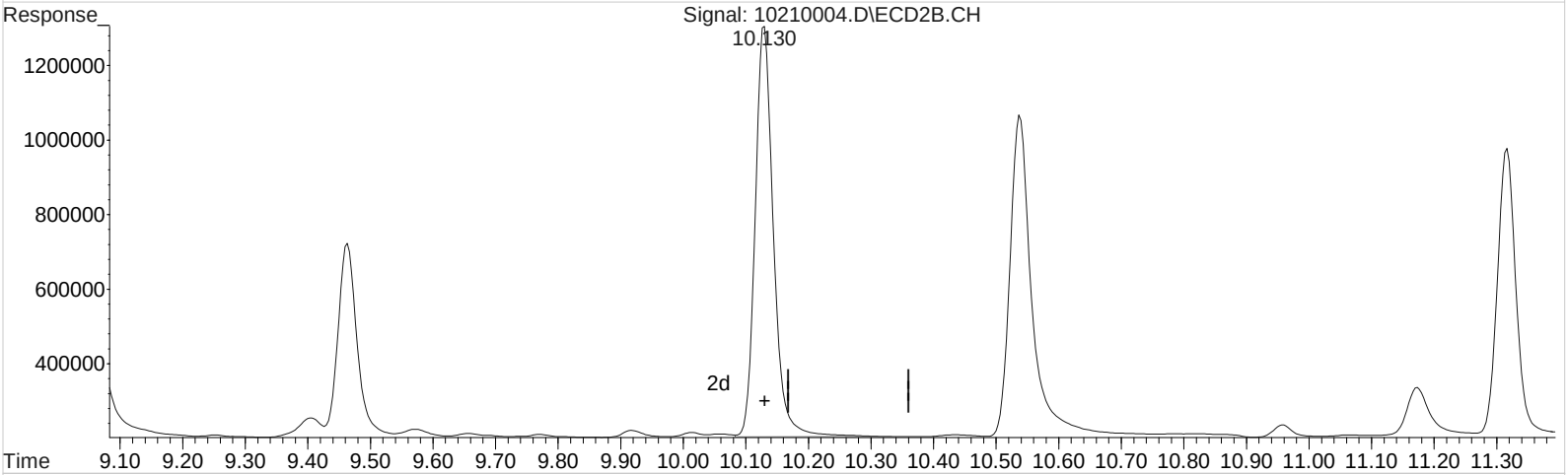
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.263min 10.244 ppb

response 954083

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

10.130min 11.308 ppb

response 2242551

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

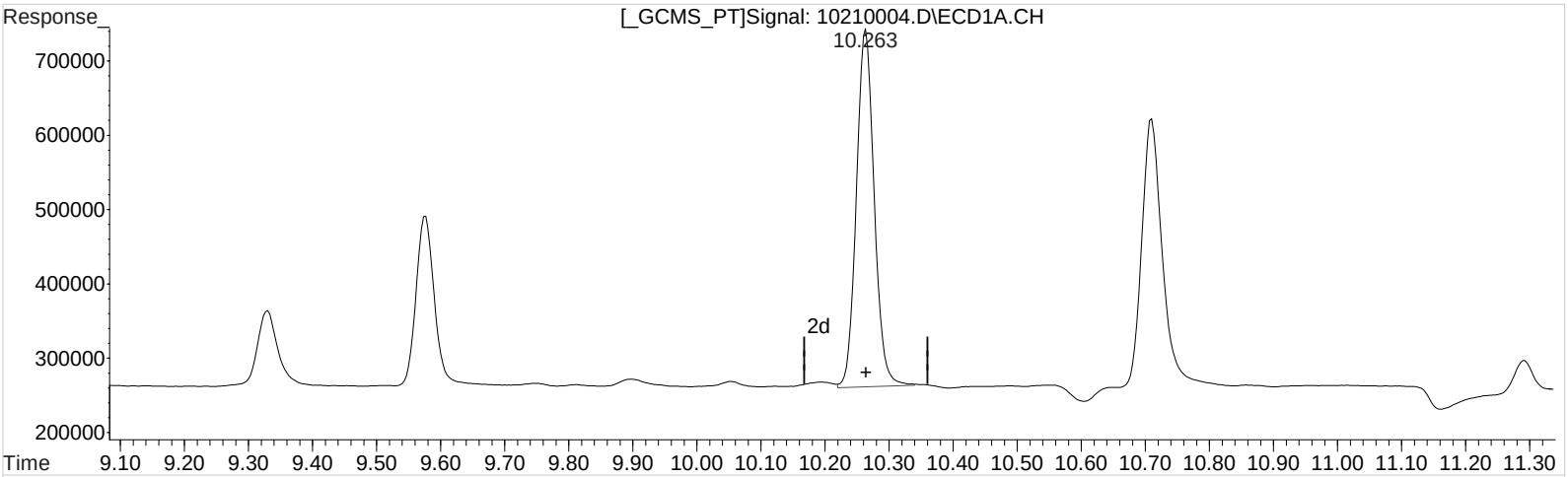
Quantitation Report (Qedit)

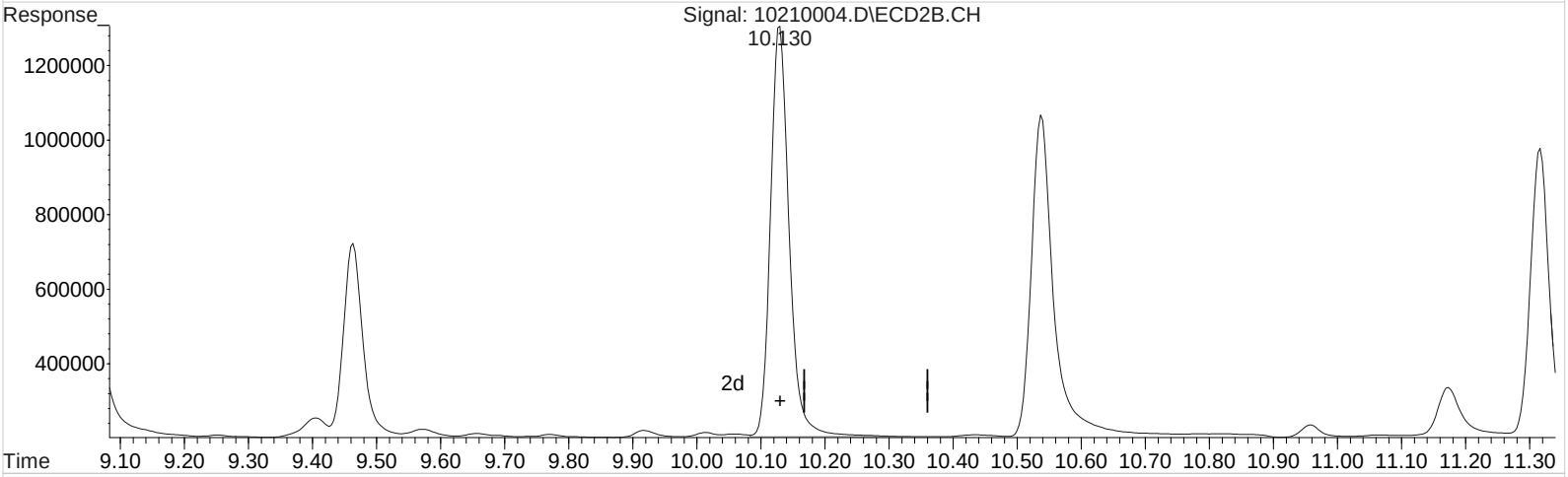
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.263min 9.958 ppb m

response 927413

Manual Integration:

After

Baseline/Shoulder

10/21/20

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

10.130min 11.308 ppb

response 2242551

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:28:28 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	7.994	7.817	454333	1114582	26.144	28.691
		Target Compounds						
1)	m	Dalapon	3.128	2.874	622375	1185641	26.669m	25.104m
3)	m	Dicamba	8.214	7.917	1772679	3745342	26.131m	26.313
4)	m	MCPP	8.301	8.104	87770	616897	1973.683	3767.293 #
5)	m	MCPA	8.564	8.351	142776	870257	2368.770	3935.605 #
6)	m	Dichloroprop	8.968	8.751	499436	1130772	28.469	29.321
7)	m	2,4-D	9.324	9.064	558866	1393959	27.651	29.833
8)	m	2,4,5-TP ...	10.264	10.127	2326151	5175294	25.192	26.532
9)	m	2,4,5-T	10.708	10.534	2067316	4914810	25.526m	26.821
10)	m	2,4-DB	11.288	11.167	277452	763407	28.096m	27.903
11)	m	Dinoseb	11.684	11.314	1575526	3578948	26.340	27.716

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

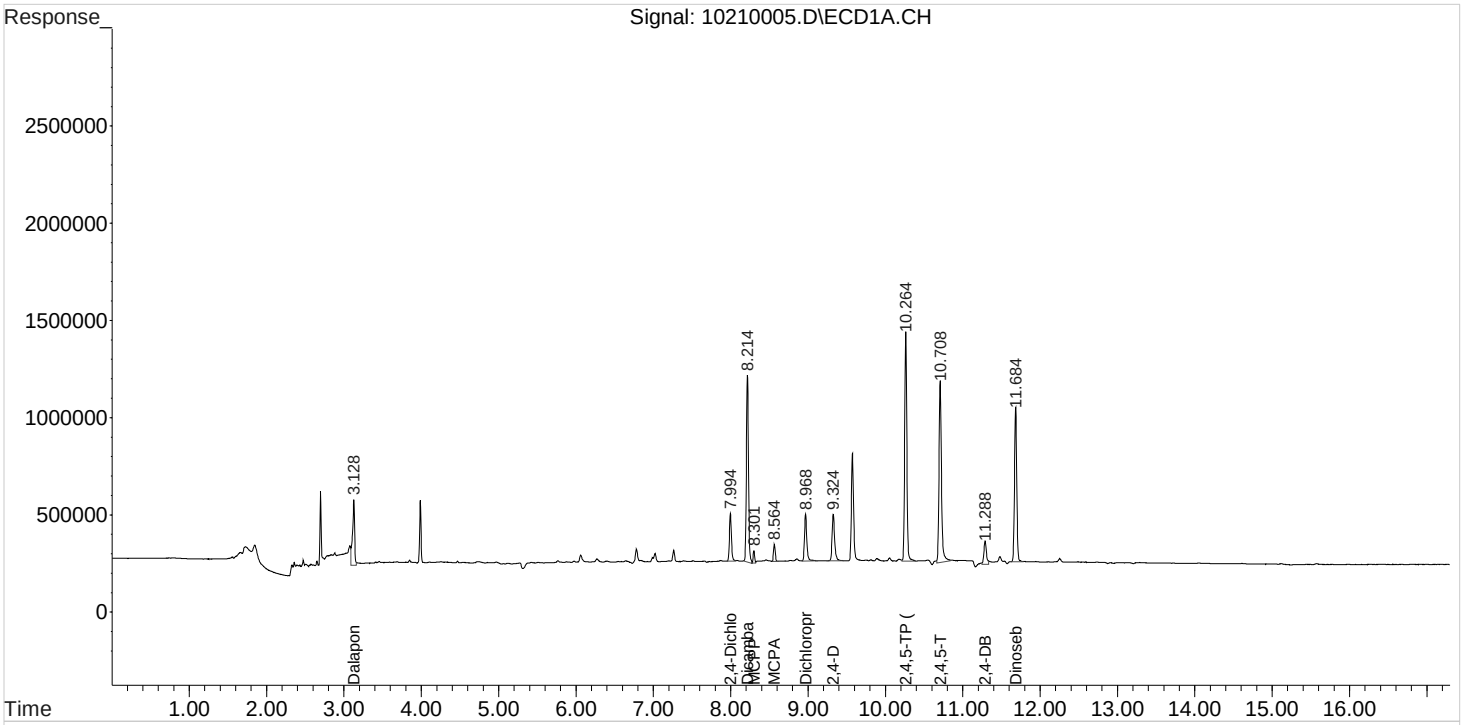
Quantitation Report (QT Reviewed)

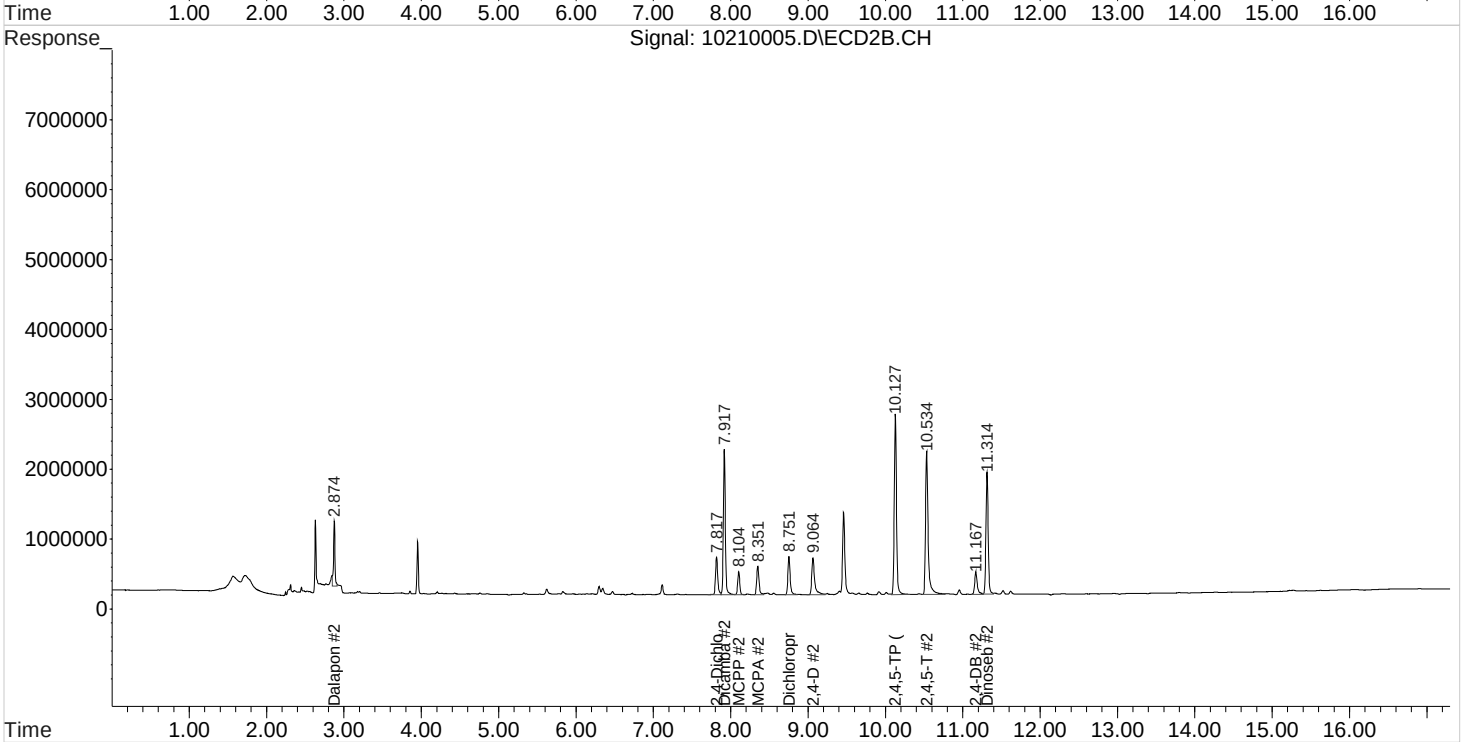
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:28:28 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





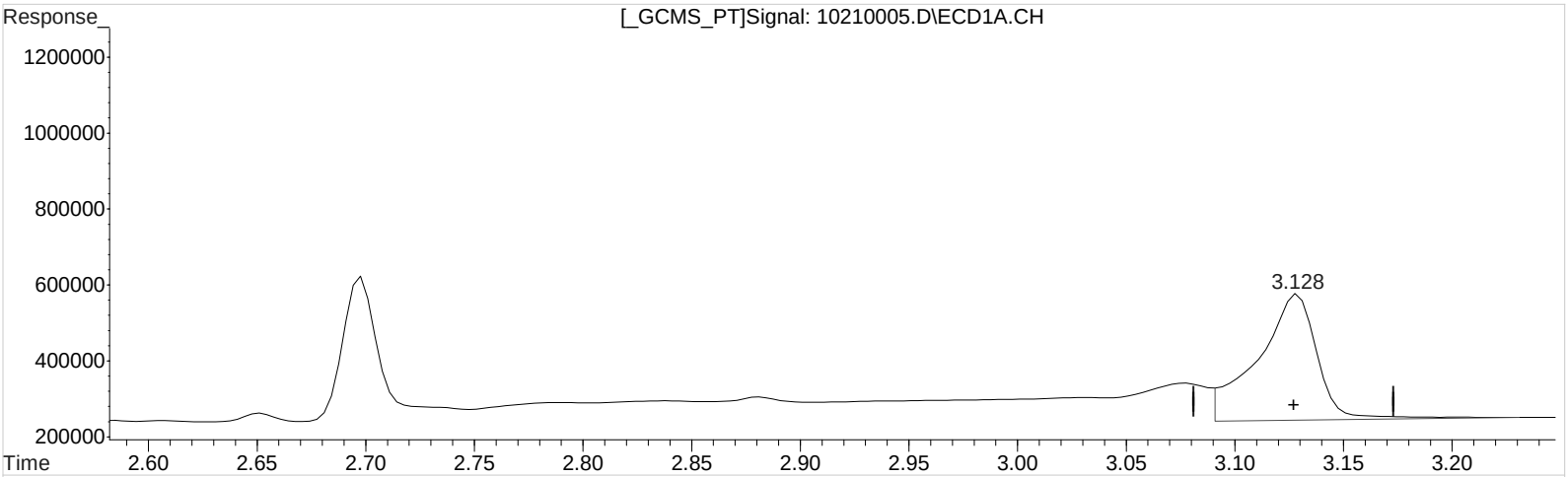
Quantitation Report (Qedit)

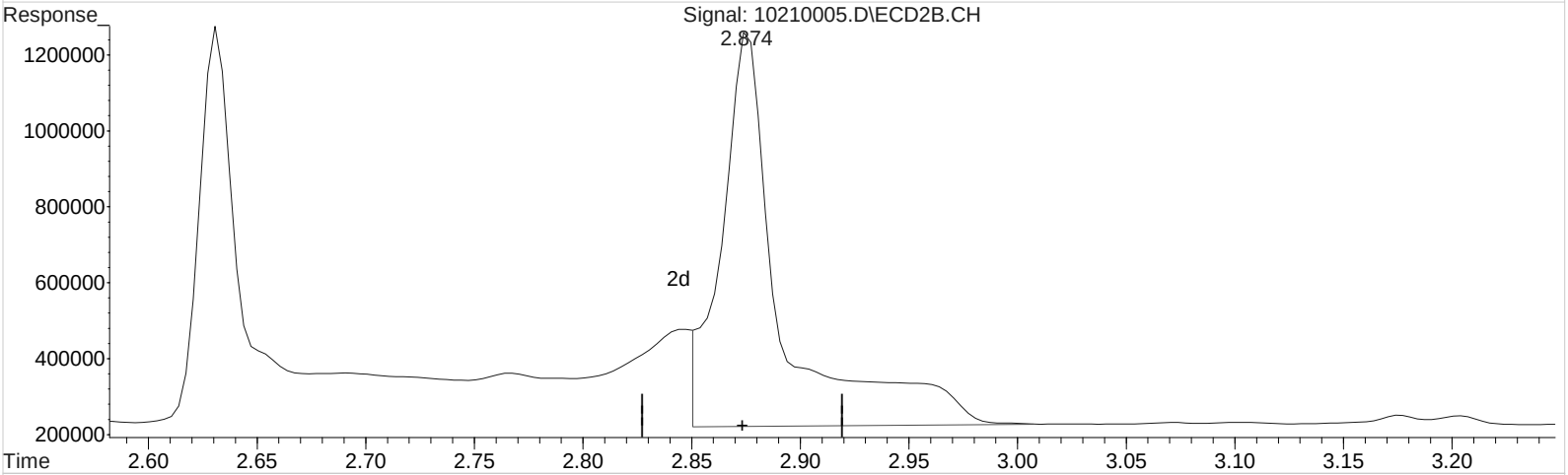
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.128min 26.760 ppb

response 624496

(1) Dalapon #2 (m)

2.874min 42.153 ppb

response 1990871

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

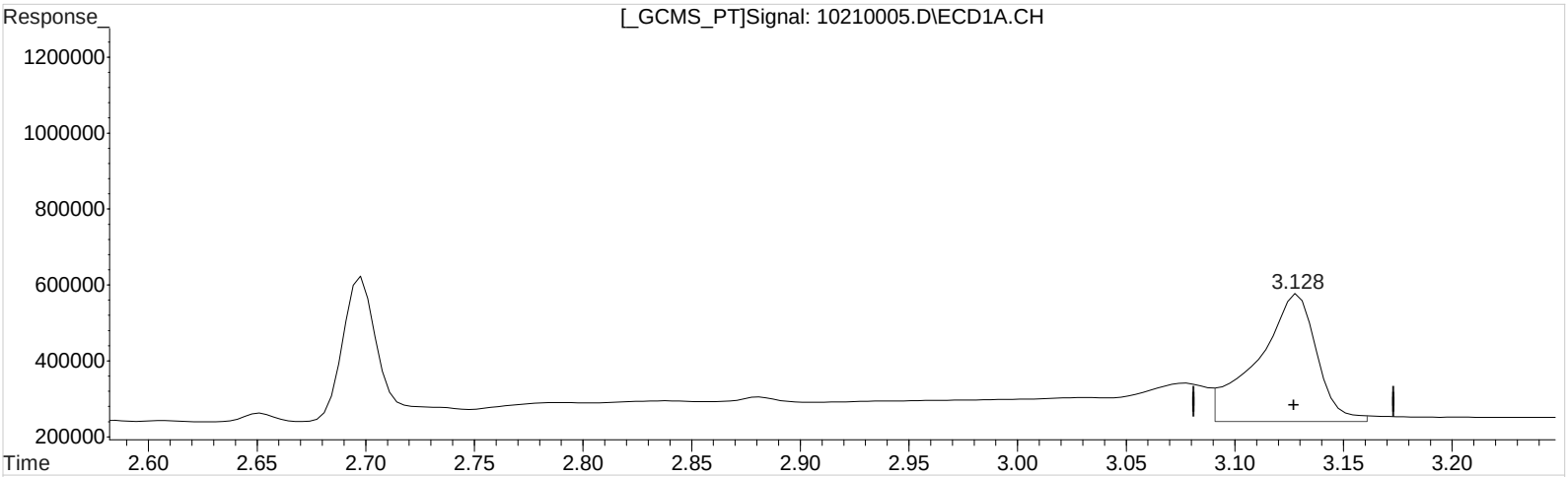
Quantitation Report (Qedit)

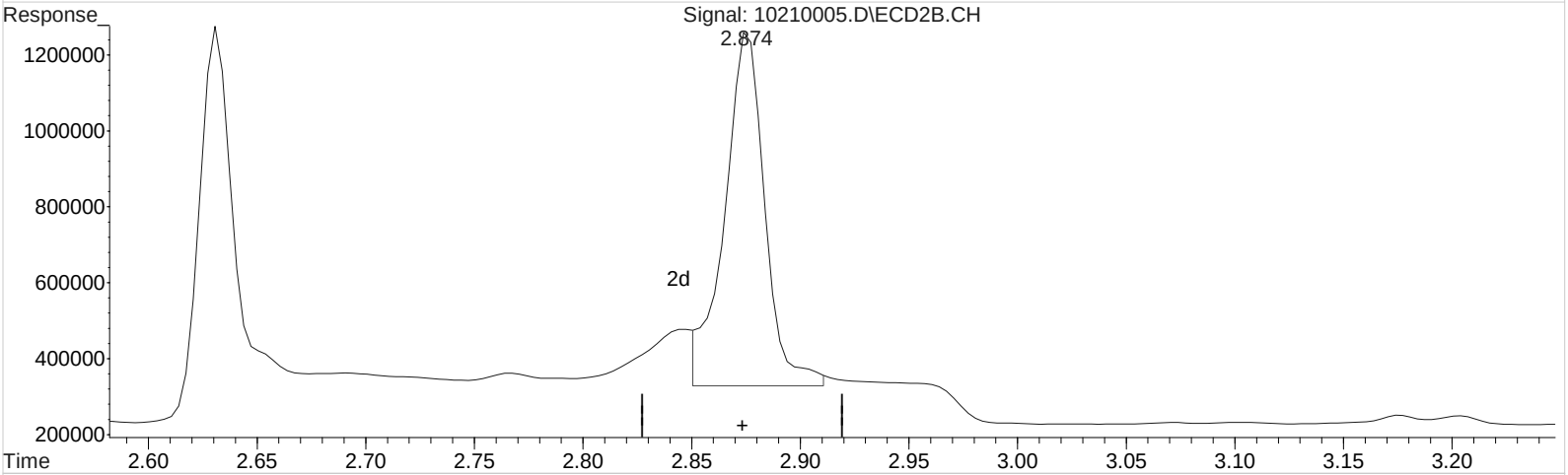
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.128min 26.669 ppb m

response 622375

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.874min 25.104 ppb m

response 1185641

(+) = Expected Retention Time

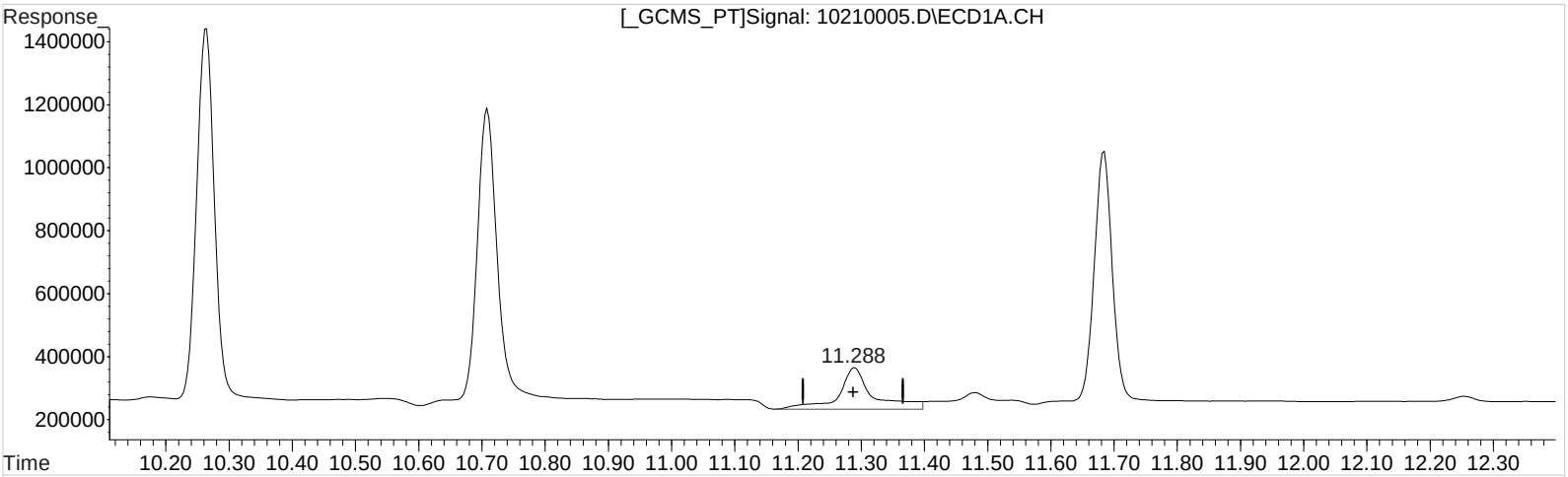
Quantitation Report (Qedit)

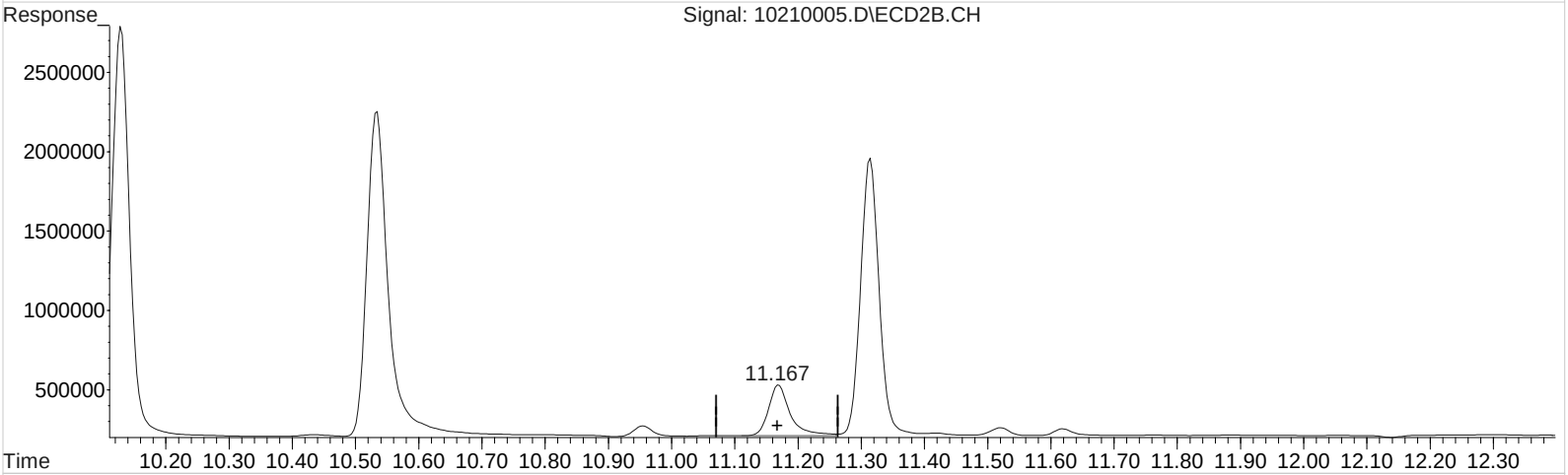
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.288min 50.935 ppb

response 502979

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

11.167min 27.903 ppb

response 763407

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

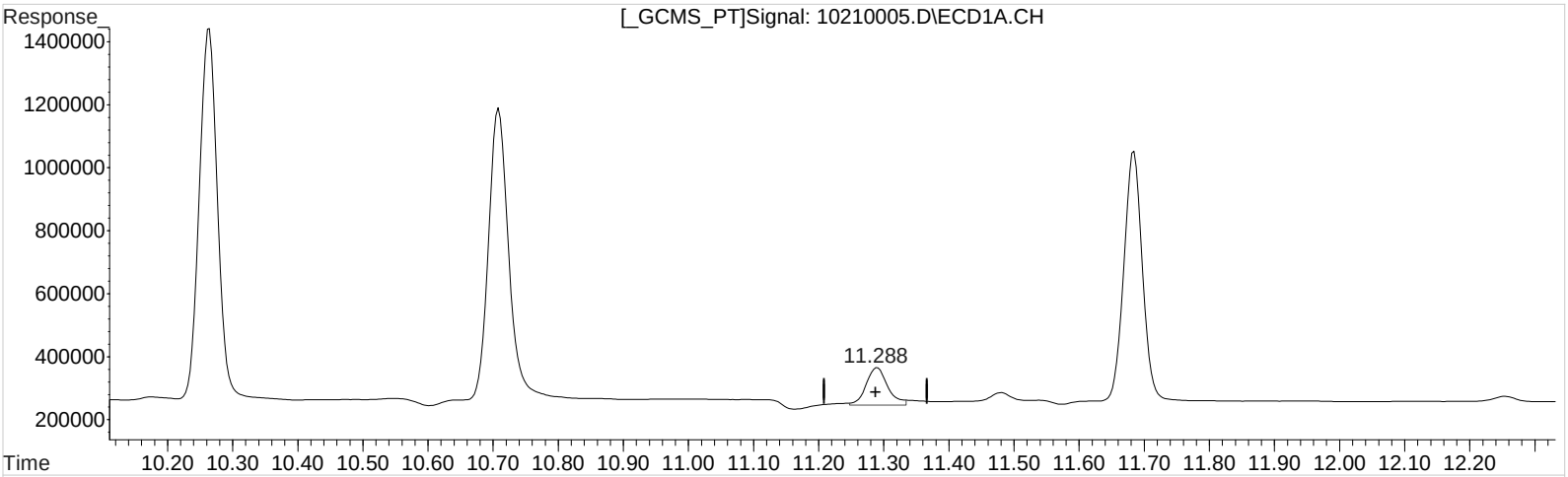
Quantitation Report (Qedit)

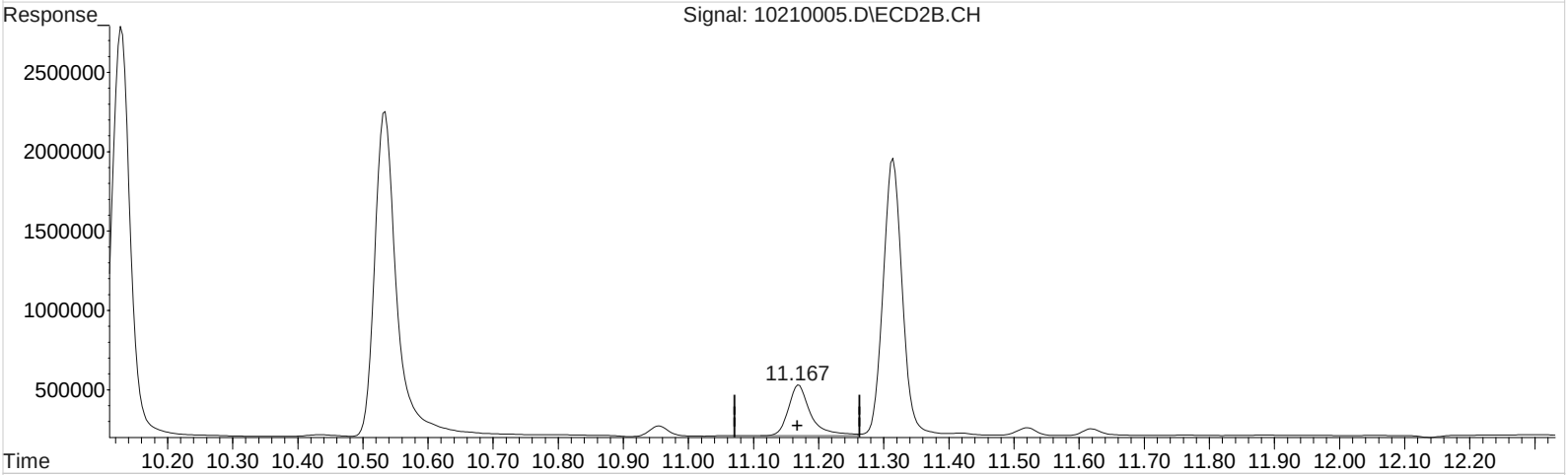
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.288min 28.096 ppb m

response 277452

Manual Integration:

After

Baseline/Shoulder

10/21/20

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

11.167min 27.903 ppb

response 763407

(+) = Expected Retention Time

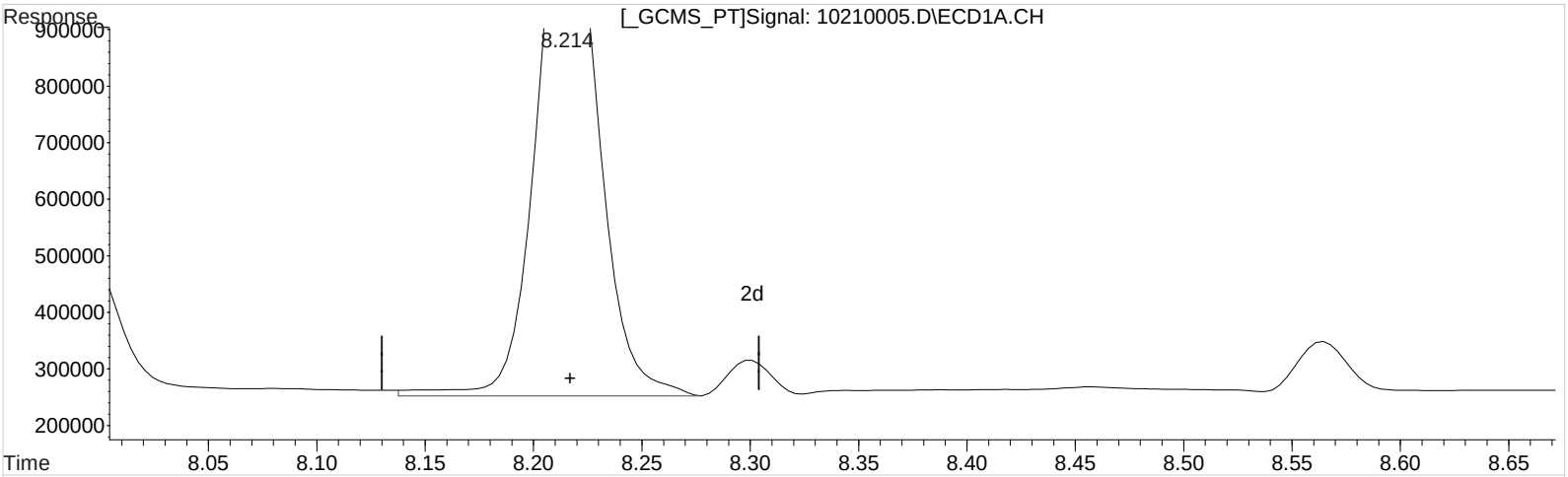
Quantitation Report (Qedit)

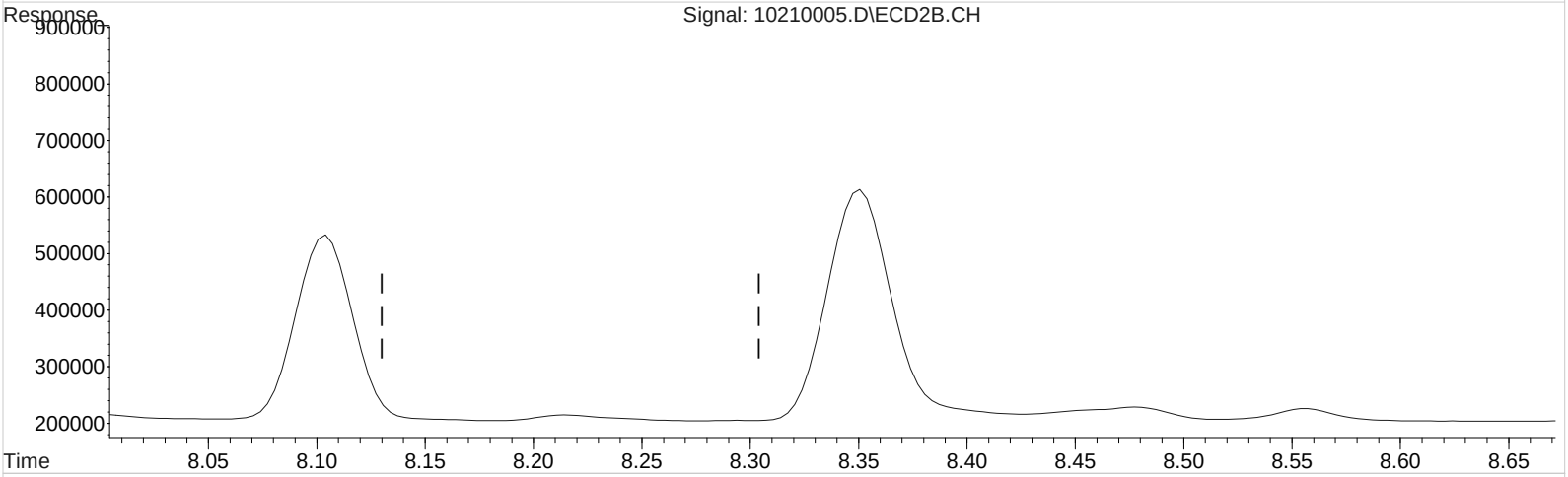
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(3) Dicamba (m)

8.214min 26.882 ppb

response 1823650

(3) Dicamba #2 (m)

7.917min 26.313 ppb

response 3745342

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

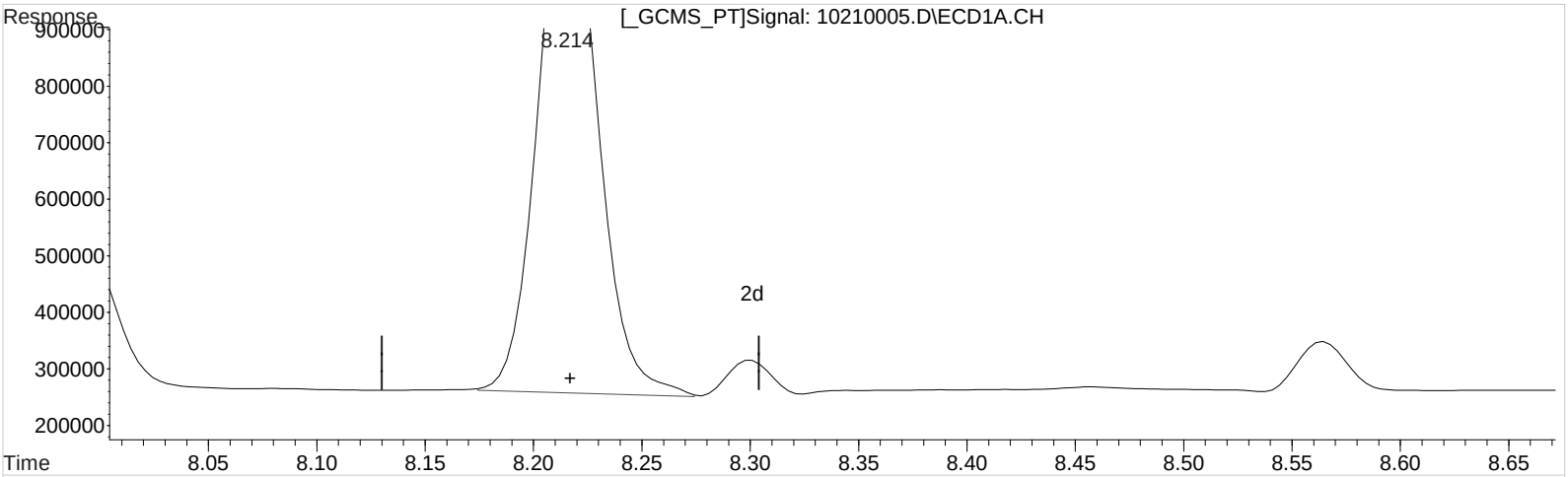
Quantitation Report (Qedit)

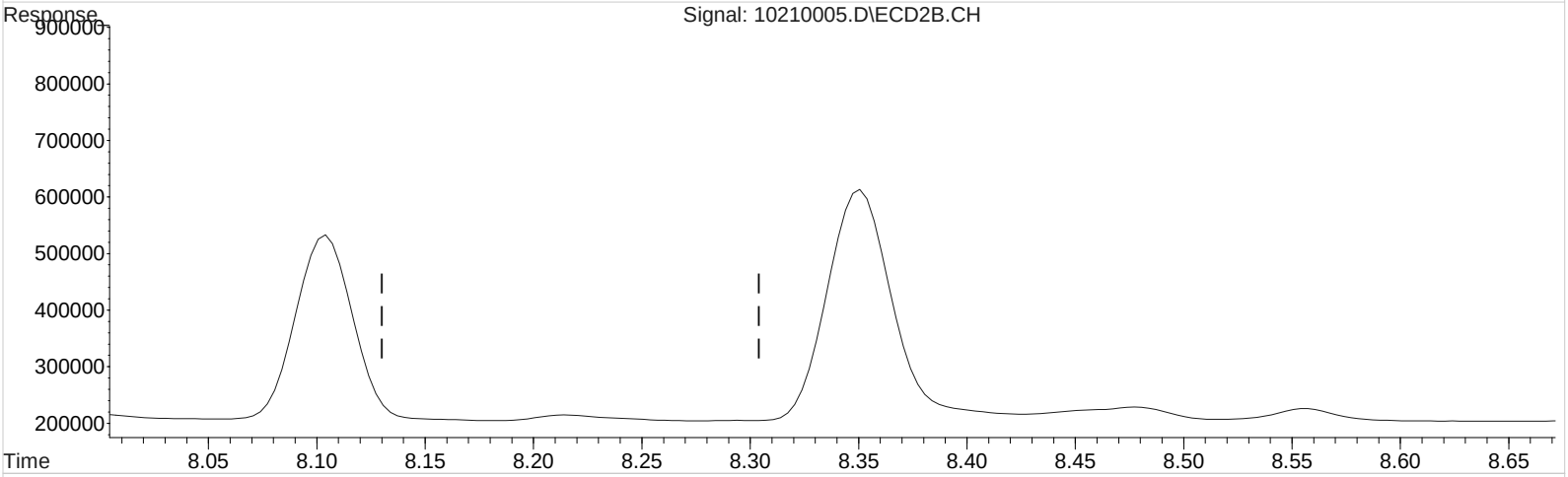
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(3) Dicamba (m)

8.214min 26.131 ppb m

response 1772679

Manual Integration:

After

Baseline/Shoulder

10/21/20

(3) Dicamba #2 (m)

7.917min 26.313 ppb

response 3745342

(+) = Expected Retention Time

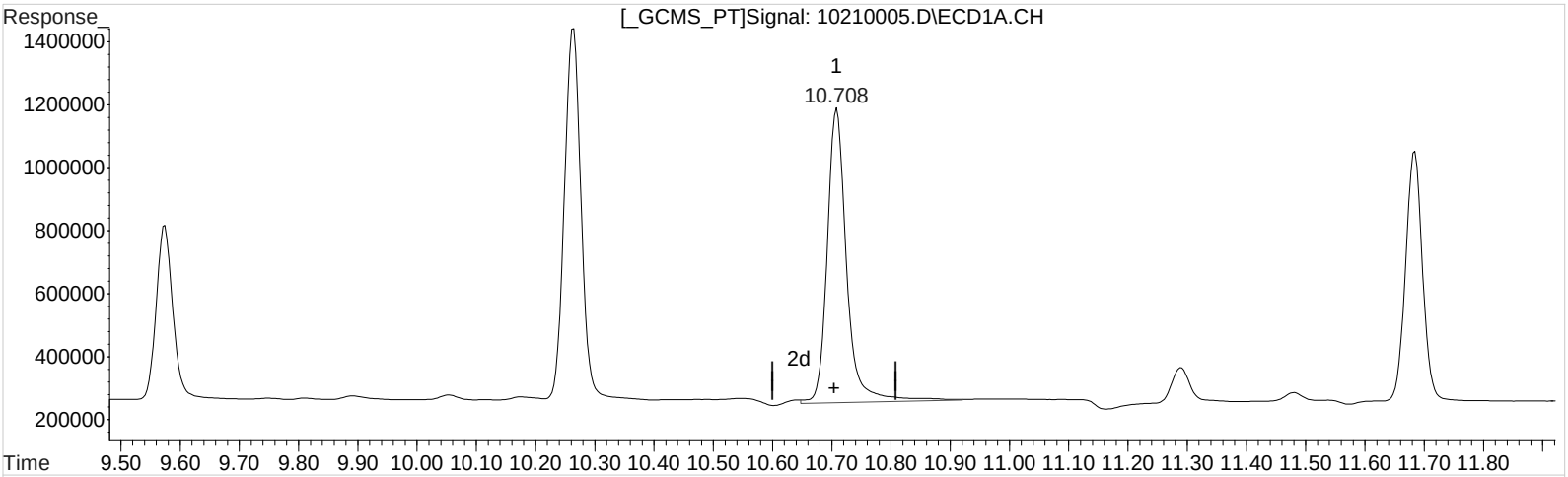
Quantitation Report (Qedit)

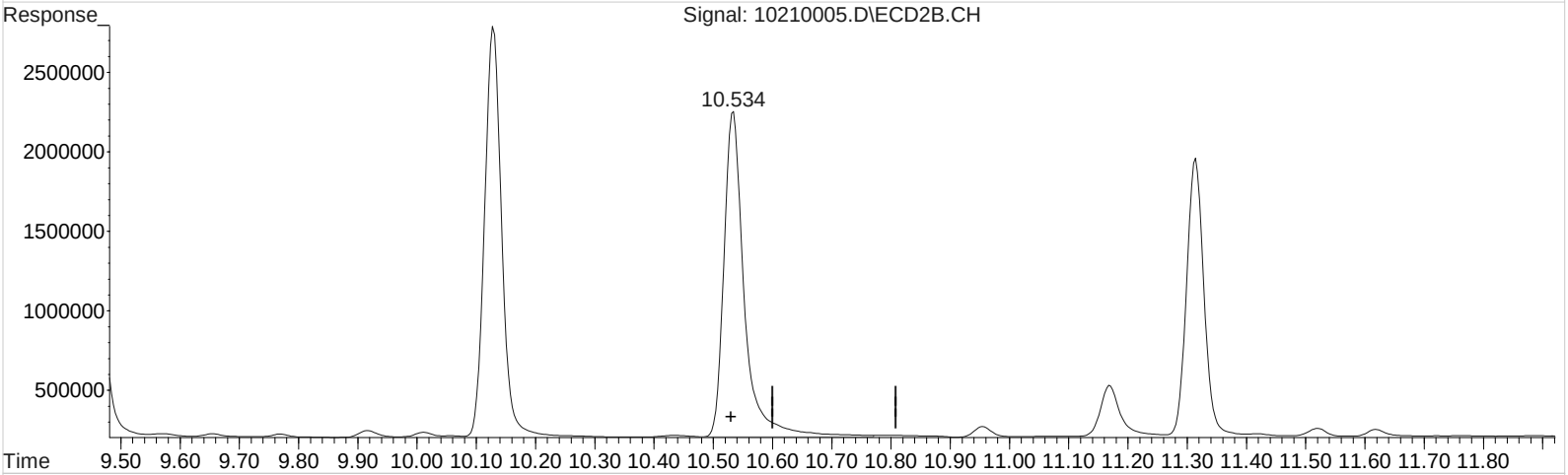
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(9) 2,4,5-T (m)

10.708min 26.371 ppb

response 2135780

(9) 2,4,5-T #2 (m)

10.534min 26.821 ppb

response 4914810

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

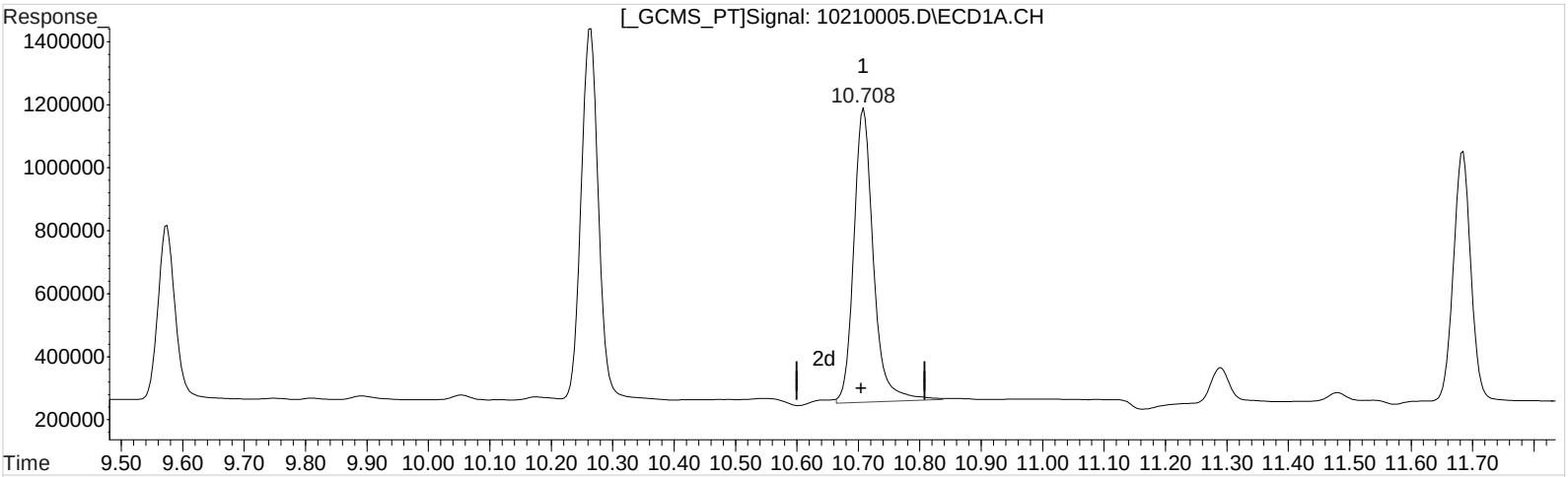
Quantitation Report (Qedit)

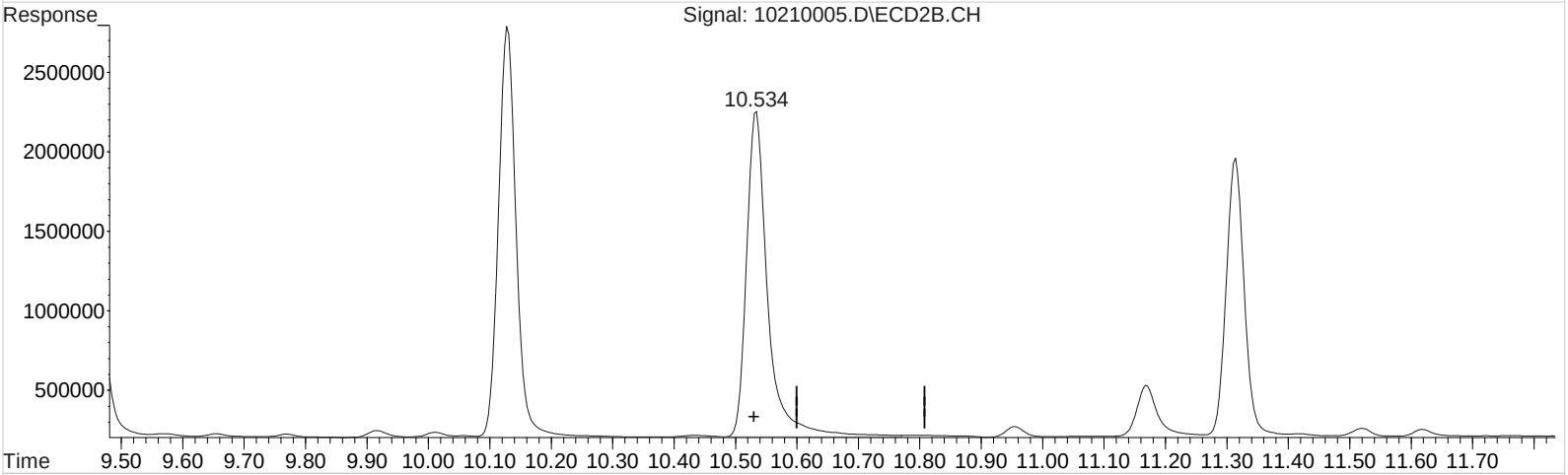
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(9) 2,4,5-T (m)

10.708min 25.526 ppb m

response 2067316

Manual Integration:

After

Baseline/Shoulder

10/21/20

(9) 2,4,5-T #2 (m)

10.534min 26.821 ppb

response 4914810

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:03 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	7.994	7.813	1215646	2731831	70.442	70.893
		Target Compounds						
1)	m	Dalapon	3.127	2.873	1539560	3208933	65.523m	67.872m
3)	m	Dicamba	8.214	7.917	4777999	10040786	70.417	70.550
4)	m	MCPP	8.300	8.103	302116	1300529	6746.467	8151.025
5)	m	MCPA	8.564	8.350	422140	1746556	7002.375	8103.973
6)	m	Dichloroprop	8.964	8.750	1271081	2826954	72.793	73.826
7)	m	2,4-D	9.324	9.057	1462698	3415664	72.757	73.646
8)	m	2,4,5-TP ...	10.260	10.127	6475348	13928120	69.897	71.425
9)	m	2,4,5-T	10.704	10.530	5799509	13030282	71.712	71.109
10)	m	2,4-DB	11.284	11.163	711824	1973095	72.304m	72.345
11)	m	Dinoseb	11.680	11.313	4350886	9284027	73.117	72.100

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

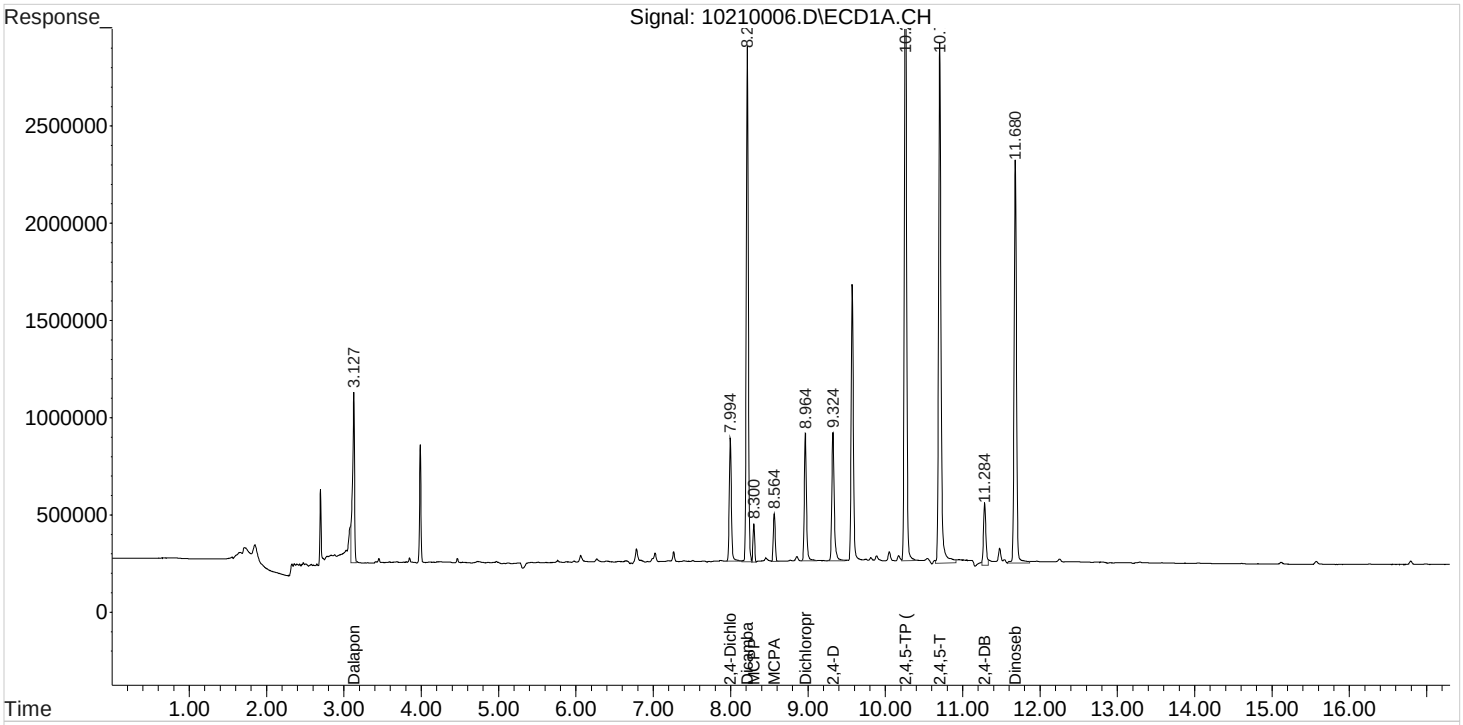
Quantitation Report (QT Reviewed)

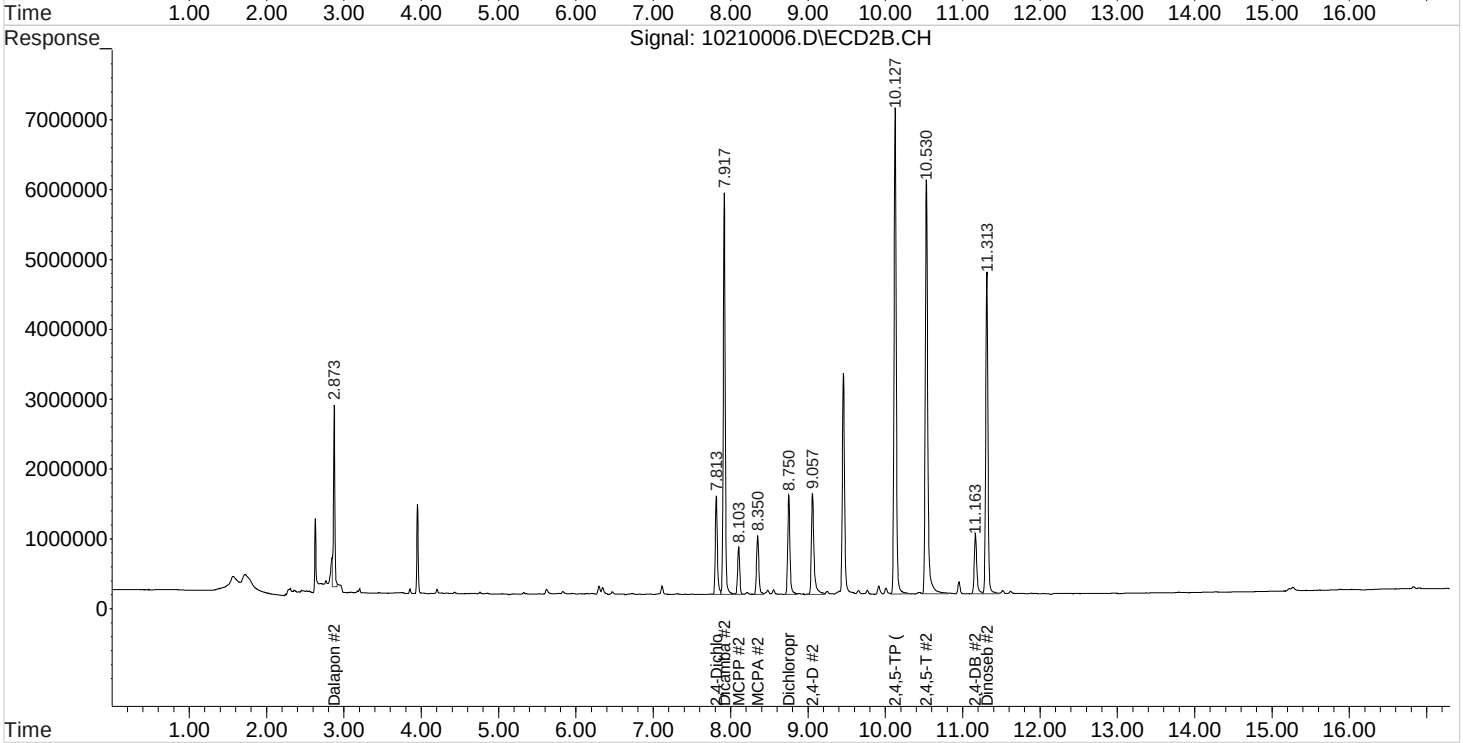
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:03 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





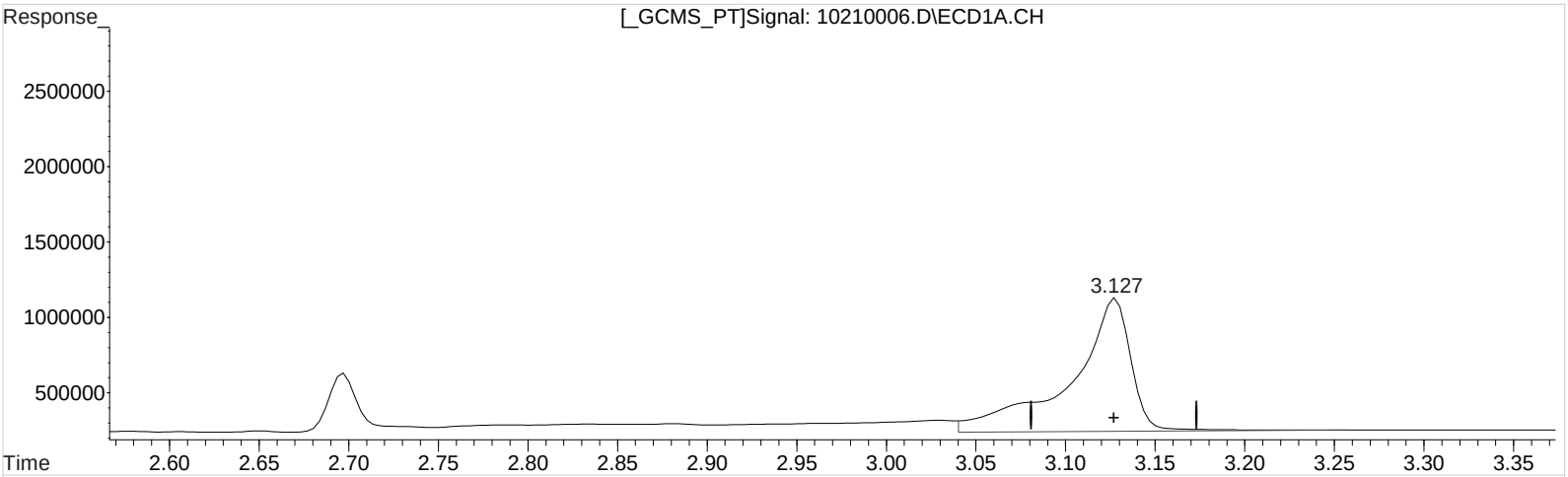
Quantitation Report (Qedit)

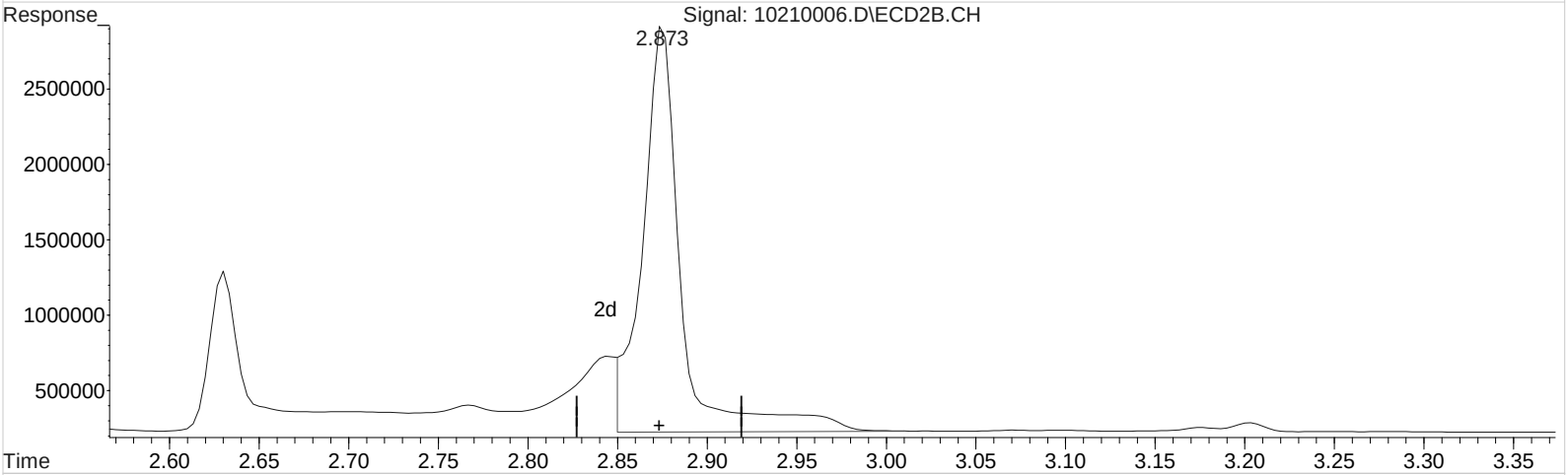
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.127min 88.037 ppb

response 2068544

Manual Integration:

Before

10/21/20

(1) Dalapon #2 (m)

2.873min 84.167 ppb

response 3979368

(+) = Expected Retention Time

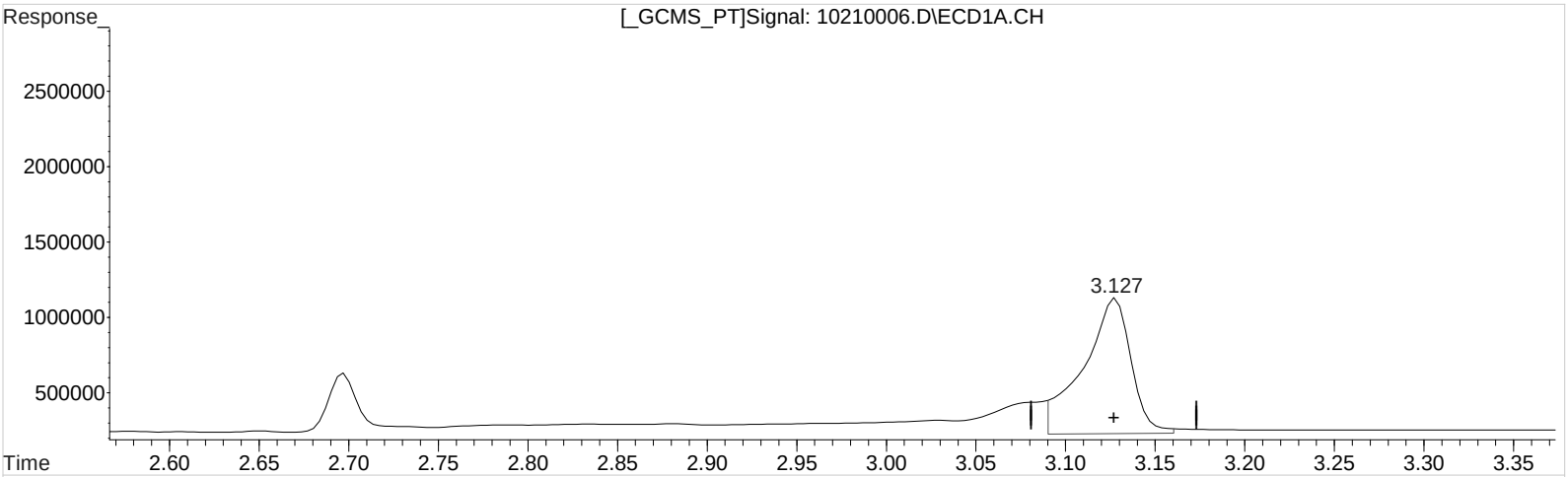
Quantitation Report (Qedit)

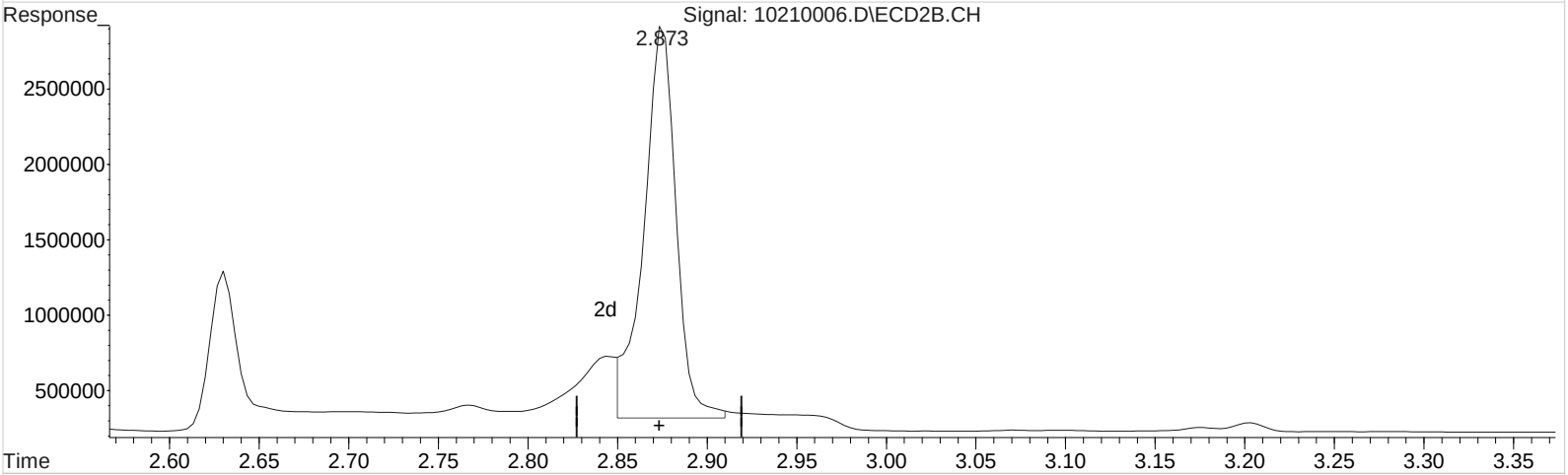
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.127min 70.095 ppb m

response 1646979

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.873min 67.872 ppb m

response 3208933

(+) = Expected Retention Time

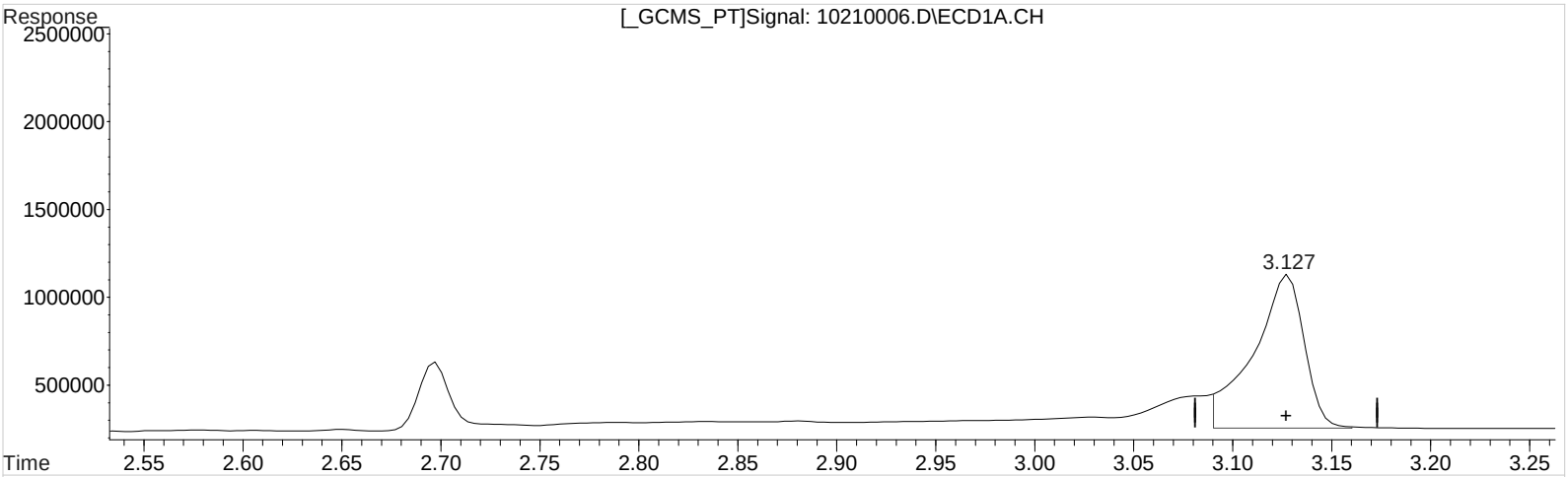
Quantitation Report (Qedit)

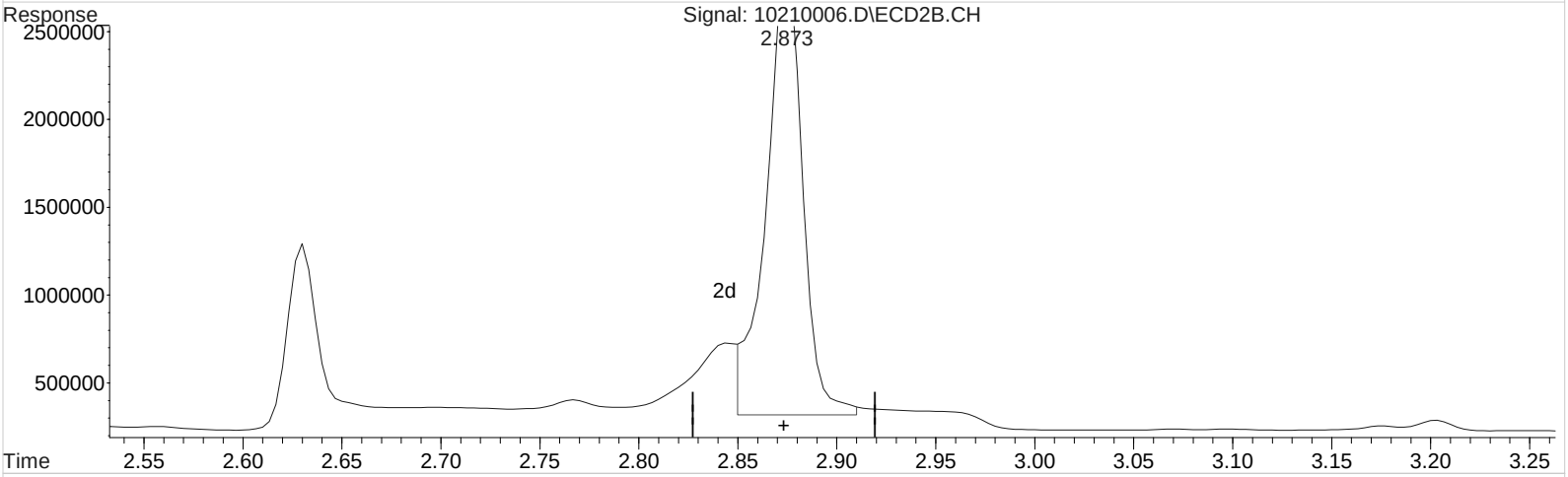
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.127min 65.523 ppb m

response 1539560

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.873min 67.872 ppb m

response 3208933

(+) = Expected Retention Time

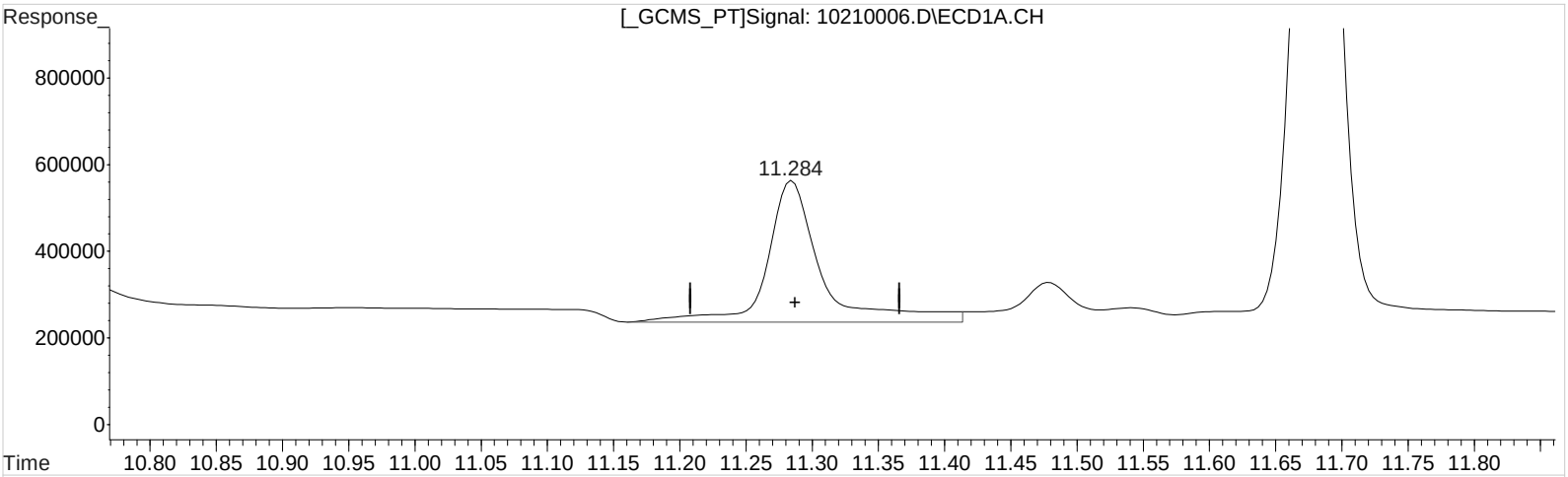
Quantitation Report (Qedit)

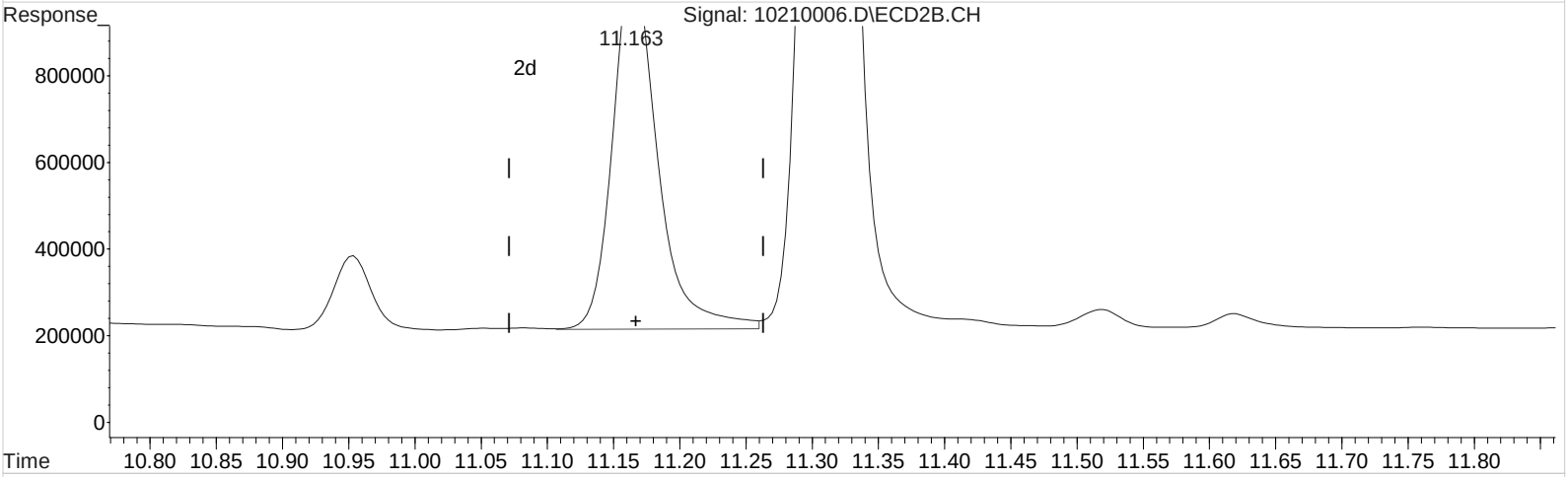
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.284min 94.555 ppb

response 930876

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

11.163min 72.345 ppb

response 1973095

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

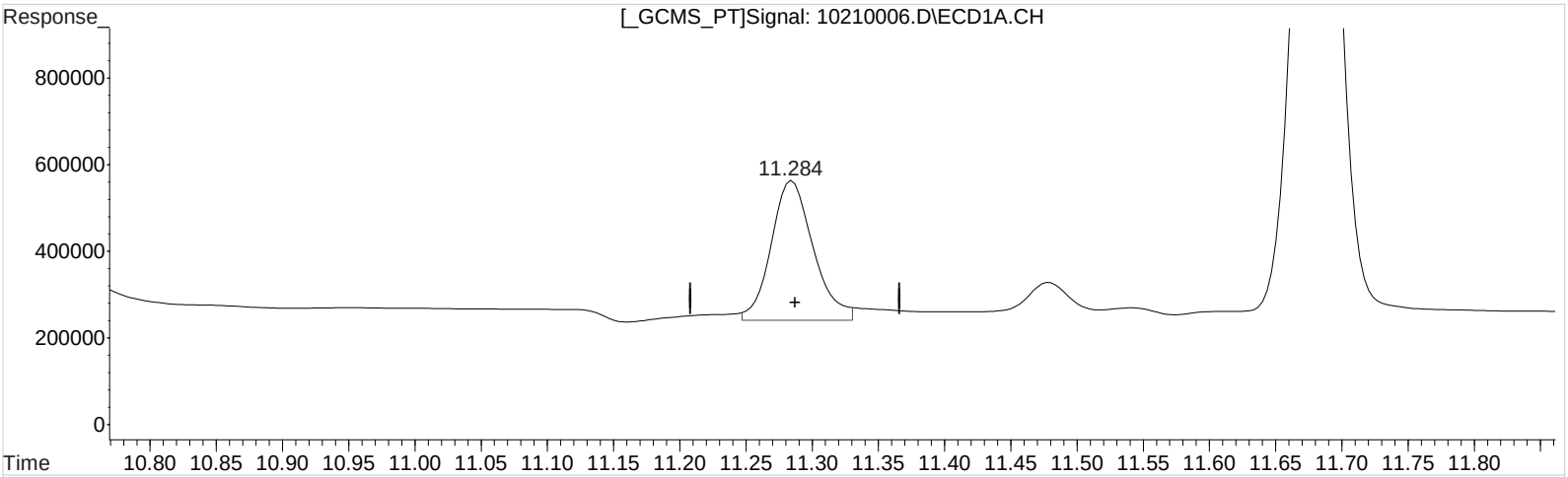
Quantitation Report (Qedit)

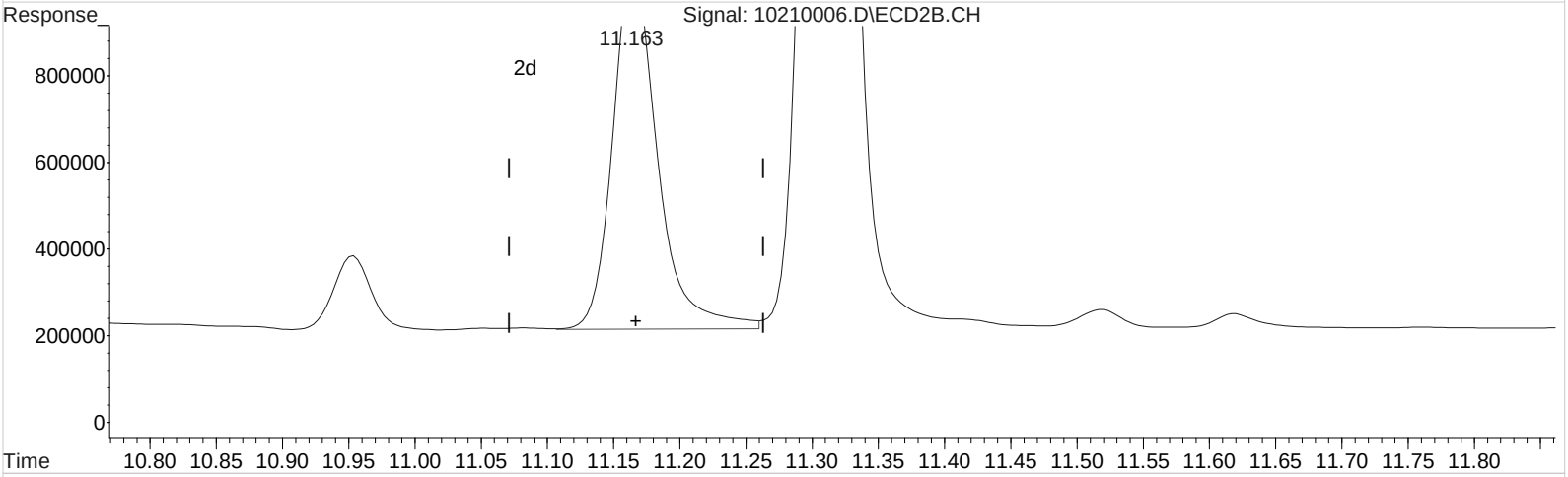
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.284min 72.304 ppb m

response 711824

Manual Integration:

After

Baseline/Shoulder

10/21/20

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

11.163min 72.345 ppb

response 1973095

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:16:06 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.997	7.817	1618486	3565715	90.200	90.200
	Target Compounds						
1) m	Dalapon	3.127	2.873	2162531	4219125	94.759m	90.872m
3) m	Dicamba	8.217	7.917	6478443	13439517	94.000	94.000
4) m	MCPP	8.300	8.107	420510	1620847	9386.000	9386.000
5) m	MCPA	8.567	8.353	573212	2171147	9346.000	9346.000
6) m	Dichloroprop	8.967	8.753	1713548	3718829	94.400	94.400
7) m	2,4-D	9.324	9.057	1932853	4480708	94.000	94.000
8) m	2,4,5-TP ...	10.264	10.130	8853387	18598859	95.100	95.100
9) m	2,4,5-T	10.704	10.530	7699095	17520598	94.800	95.204
10) m	2,4-DB	11.287	11.167	941169	2610405	93.789m	94.700
11) m	Dinoseb	11.684	11.313	5699341	12298812	94.500	94.500

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

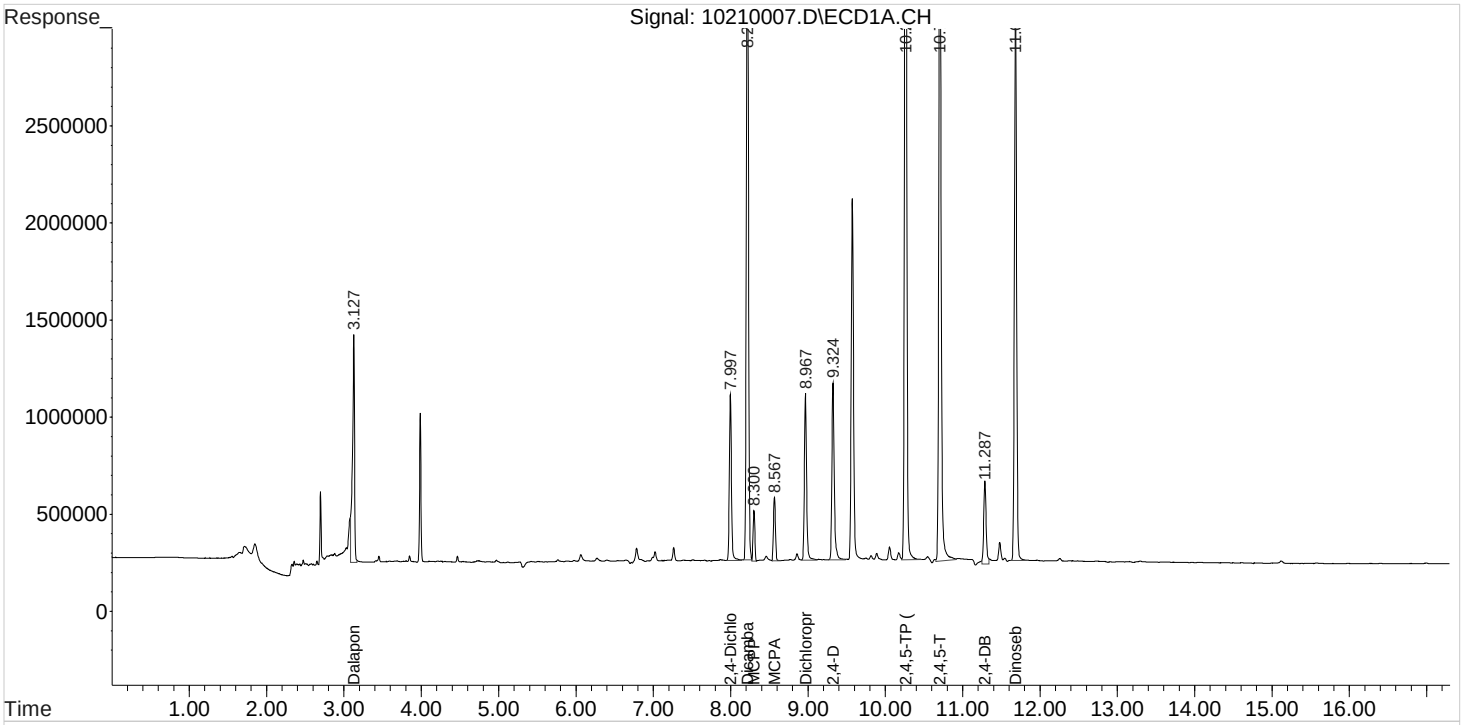
Quantitation Report (QT Reviewed)

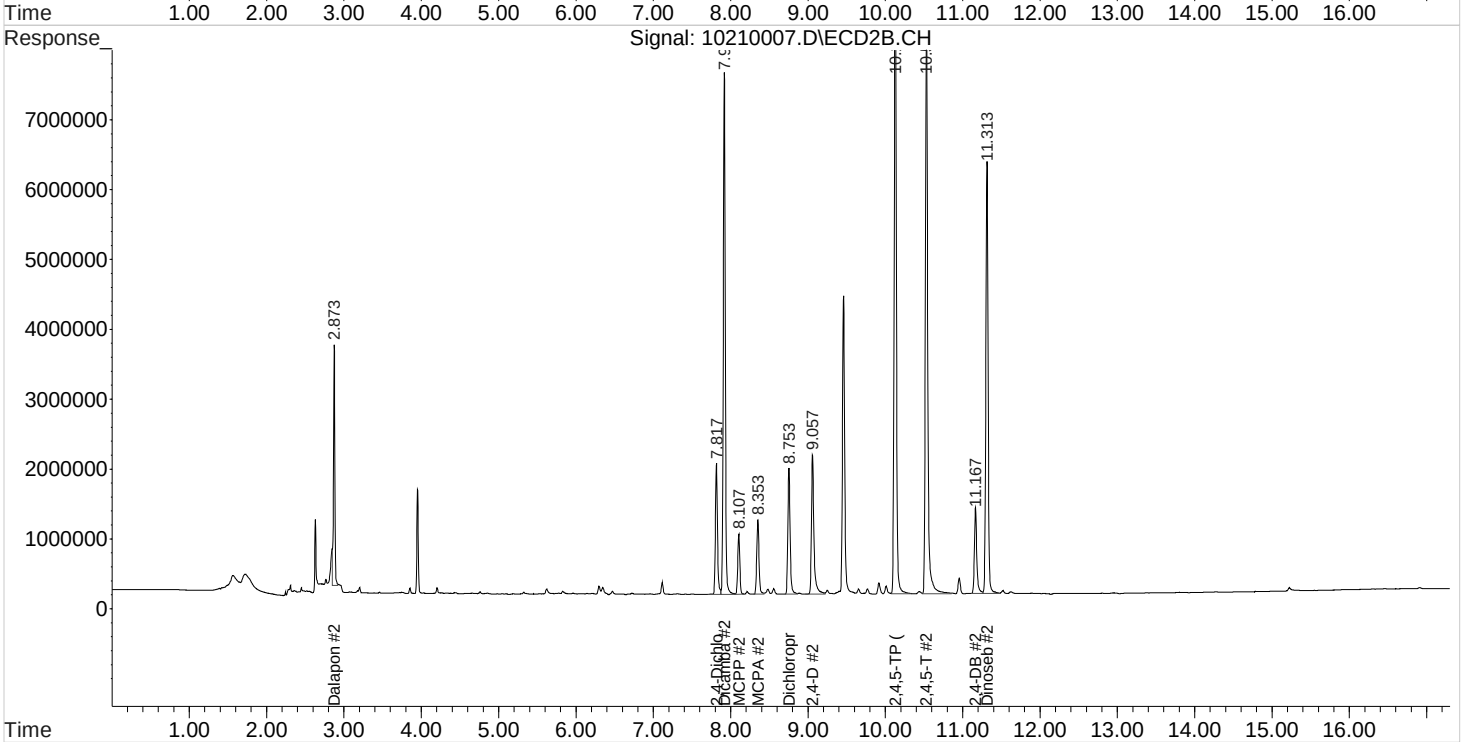
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:16:06 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





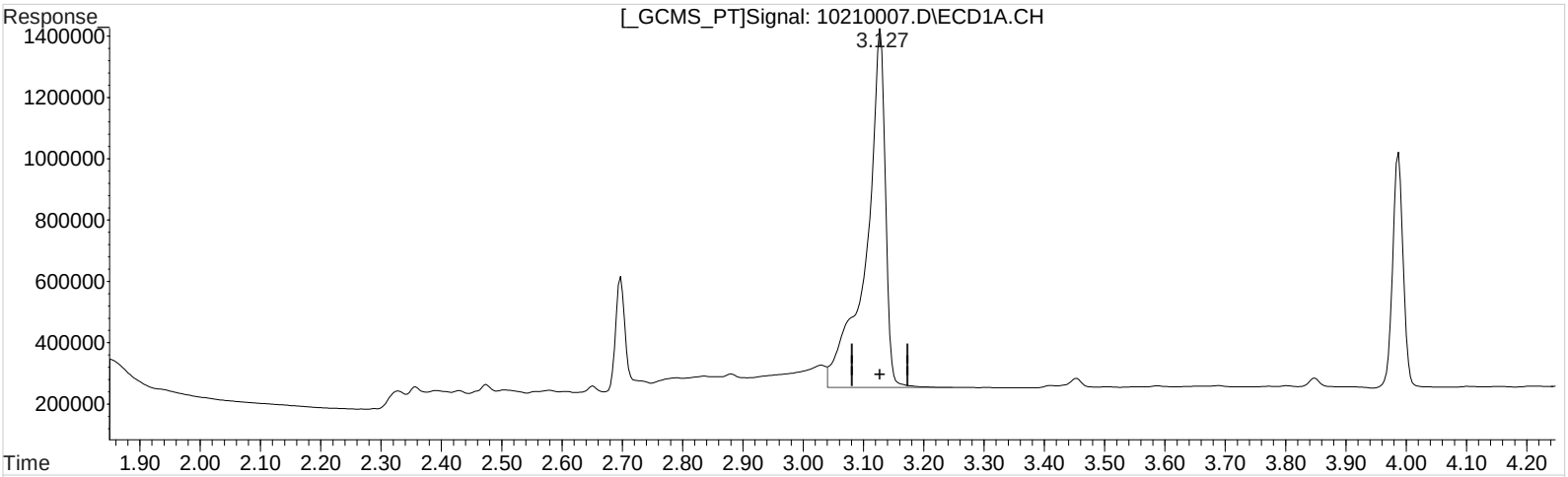
Quantitation Report (Qedit)

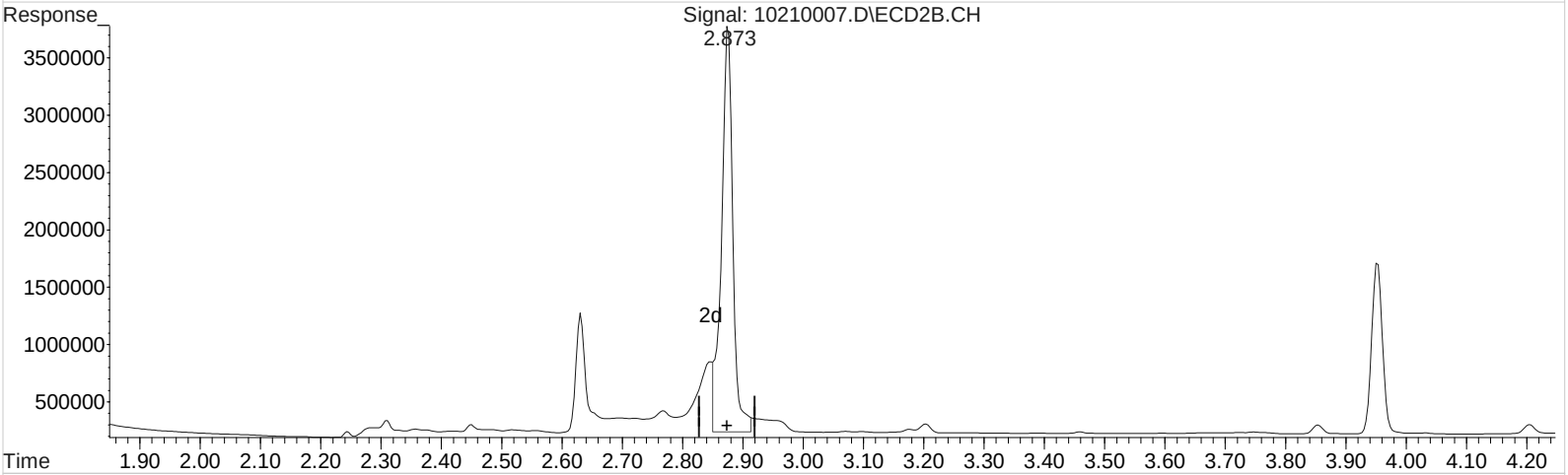
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 16:16:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 16:16:08 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.127min 91.100 ppb

response 2583448

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.873min 90.173 ppb m

response 4587035

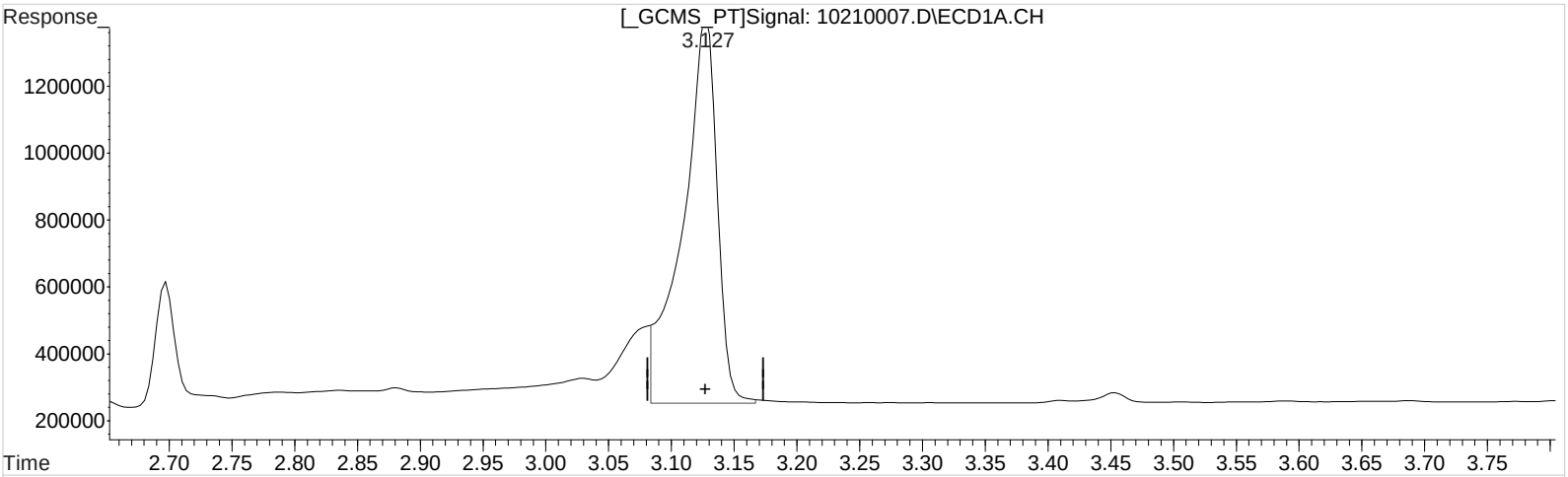
(+) = Expected Retention Time

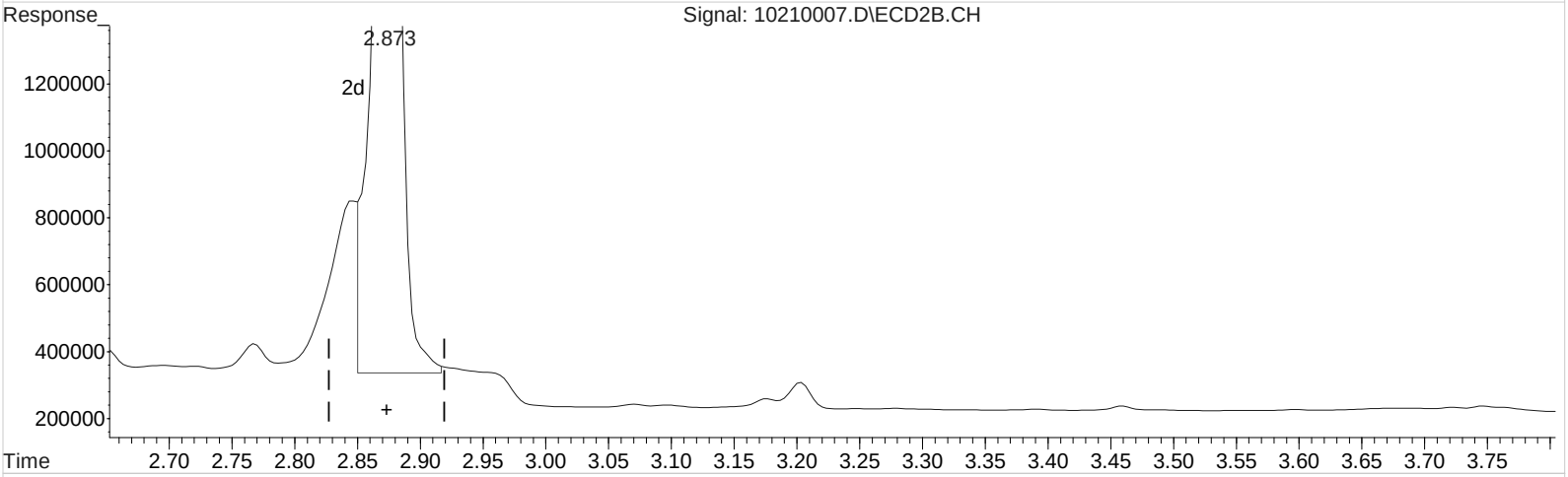
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:14:42 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.127min 94.759 ppb m

response 2162531

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.873min 90.872 ppb m

response 4219125

(+) = Expected Retention Time

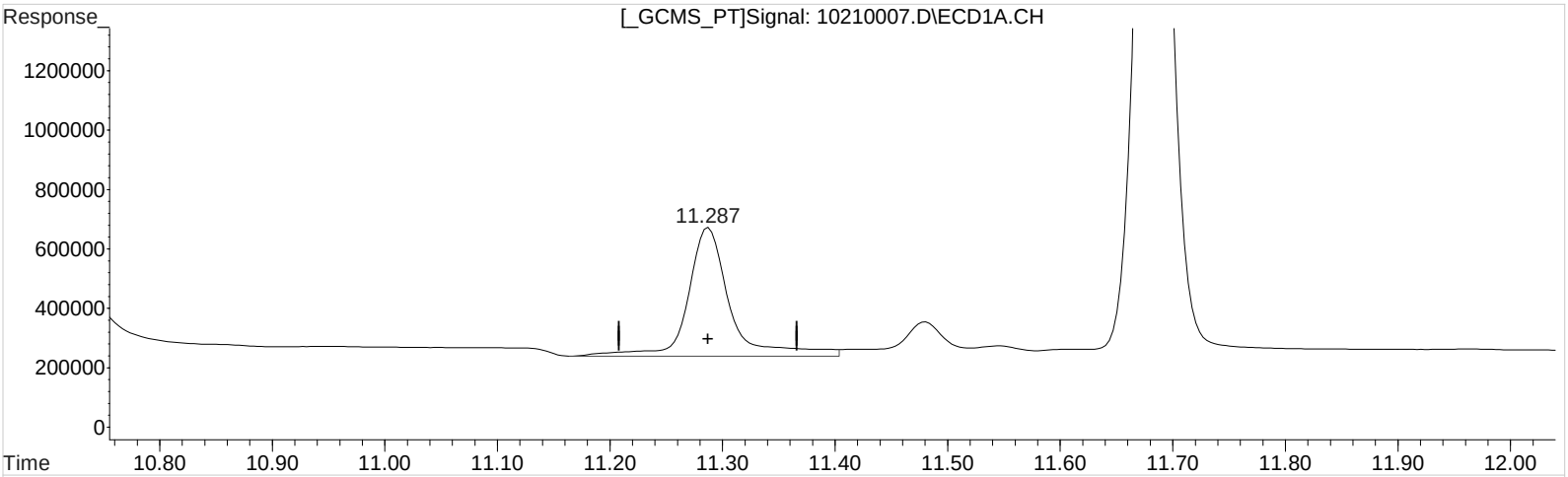
Quantitation Report (Qedit)

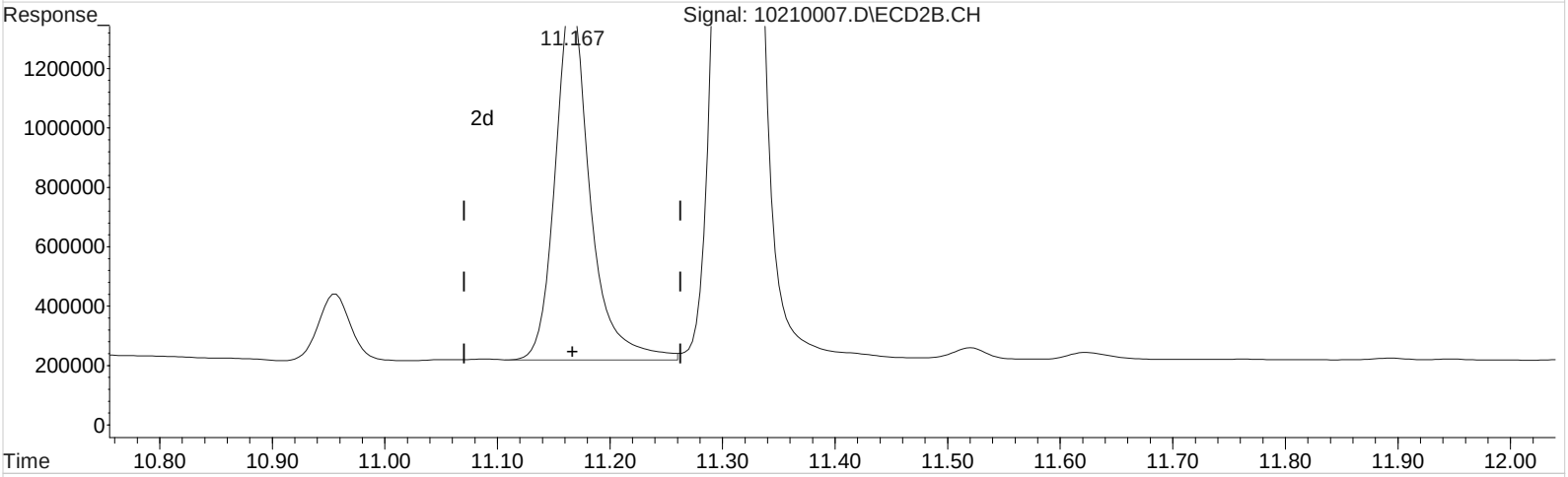
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:14:42 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.287min 112.668 ppb

response 1130621

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

11.167min 94.700 ppb

response 2610405

Manual Integration:

Before

10/21/20

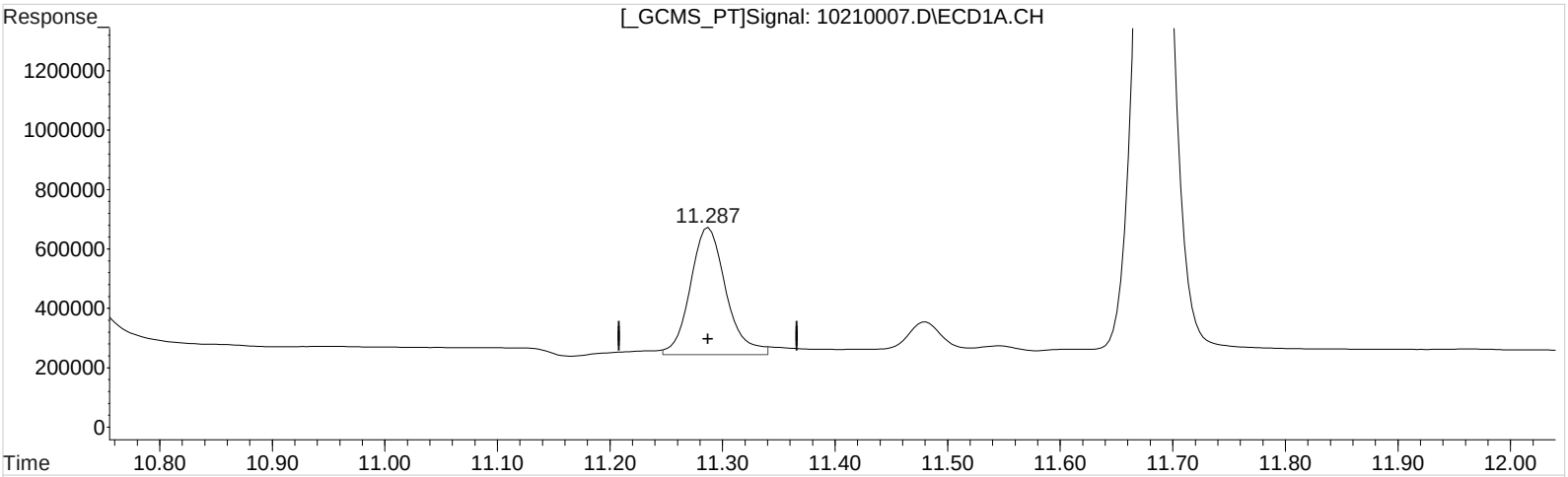
(+) = Expected Retention Time

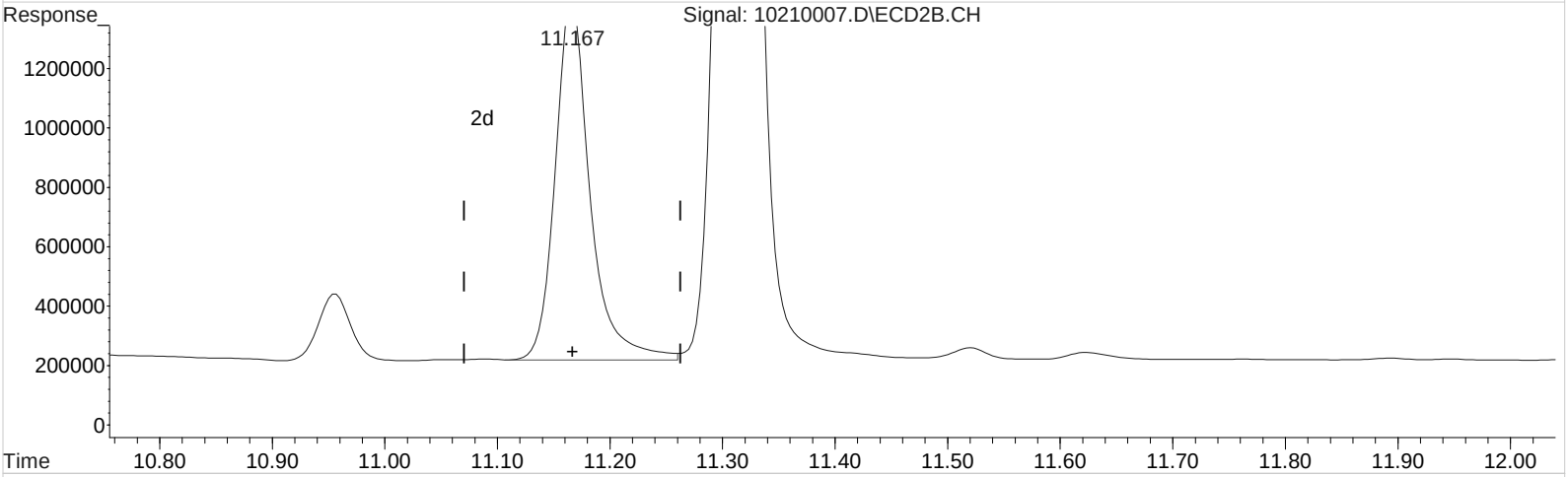
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:14:42 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.287min 93.789 ppb m

response 941169

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

11.167min 94.700 ppb

response 2610405

Manual Integration:

After

Baseline/Shoulder

10/21/20

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:02 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.993	7.813	1959232	4387572	113.731	114.146
	Target Compounds						
1) m	Dalapon	3.127	2.873	2668589	5506745	113.511m	117.152m
3) m	Dicamba	8.213	7.916	7967267	16745862	117.390	117.694
4) m	MCPP	8.300	8.106	522627	1929619	11655.124	12187.501
5) m	MCPA	8.563	8.350	704455	2590948	11685.949	12109.753
6) m	Dichloroprop	8.963	8.750	2070717	4562901	118.745	119.464
7) m	2,4-D	9.320	9.056	2385344	5502448	118.932	118.917
8) m	2,4,5-TP ...	10.260	10.126	10956862	23161274	118.135	118.763
9) m	2,4,5-T	10.703	10.530	9647622	21578156	119.497	117.574
10) m	2,4-DB	11.283	11.166	1184989	3225586	120.887m	118.254
11) m	Dinoseb	11.680	11.313	7044640	15278779	118.457	118.795

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

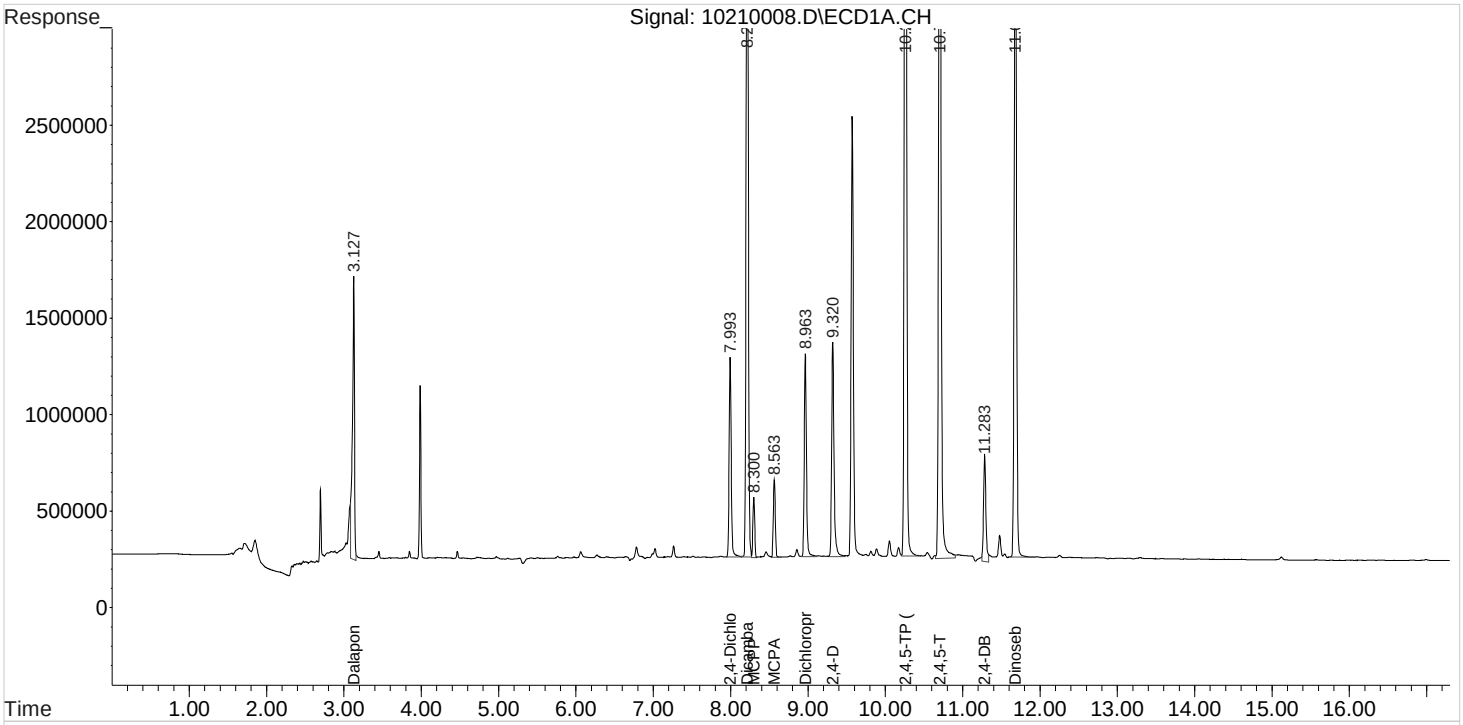
Quantitation Report (QT Reviewed)

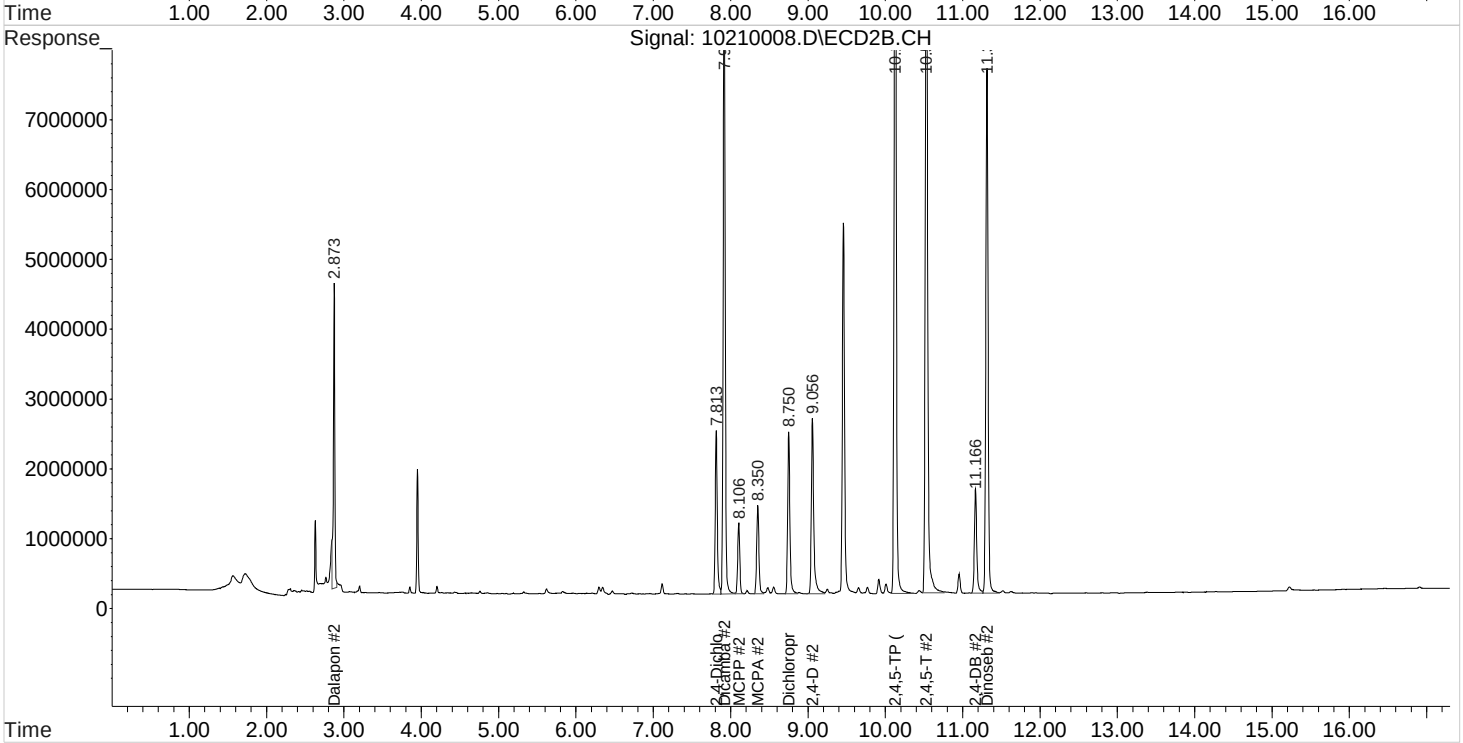
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:02 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





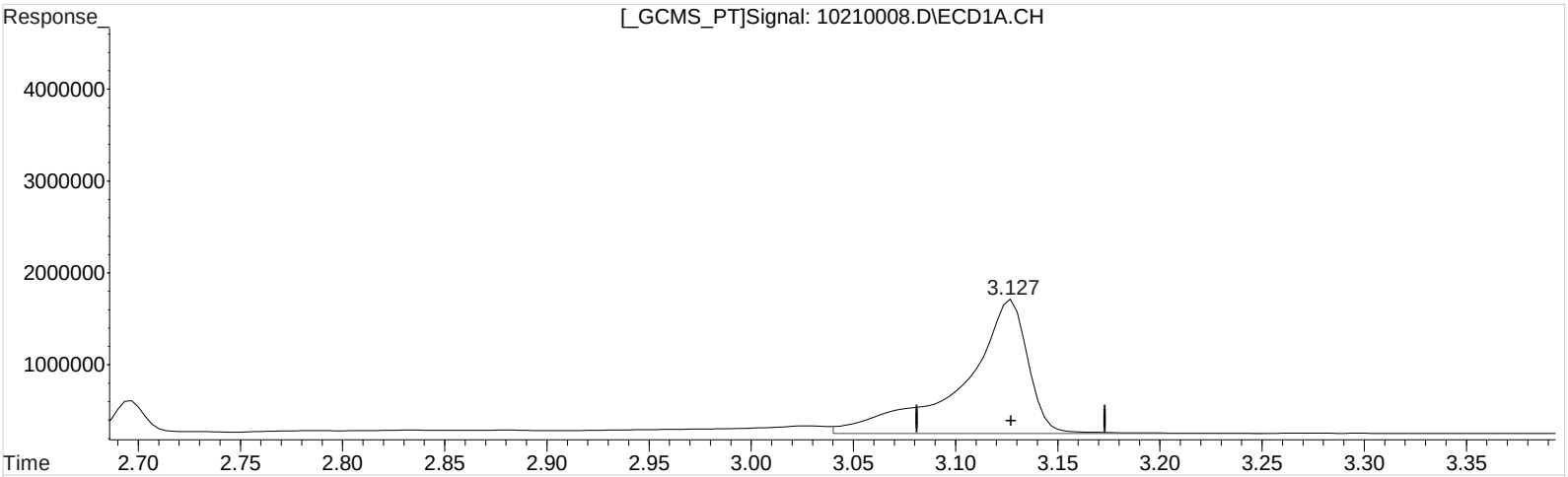
Quantitation Report (Qedit)

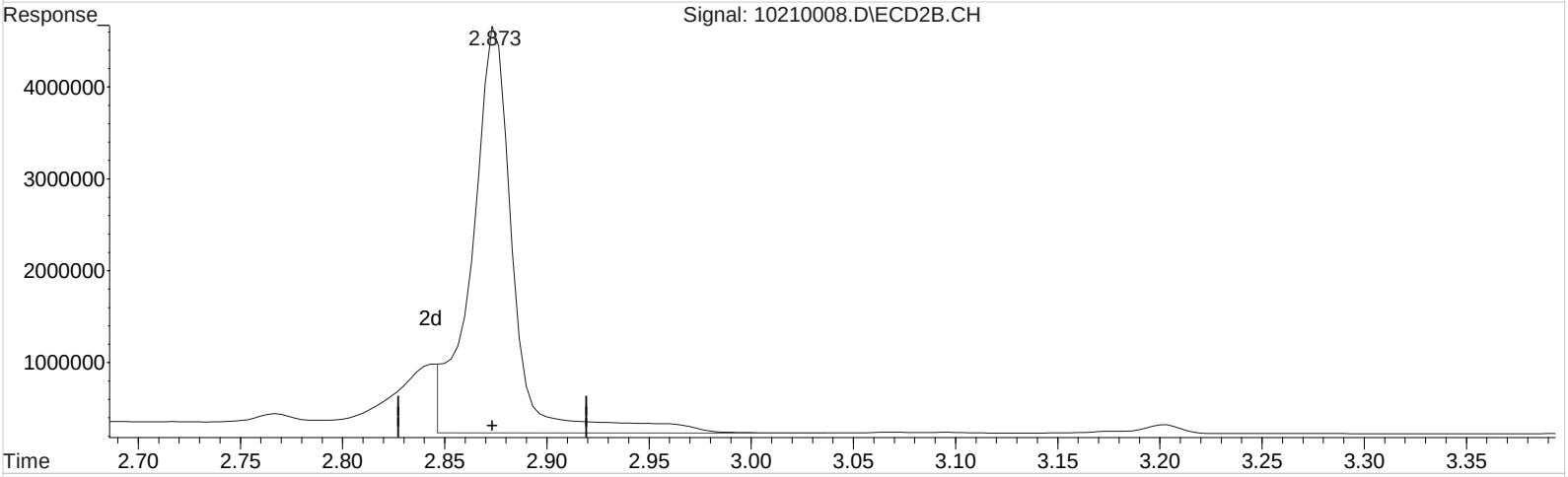
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.127min 135.159 ppb

response 3177545

(1) Dalapon #2 (m)

2.873min 131.218 ppb

response 6167907

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

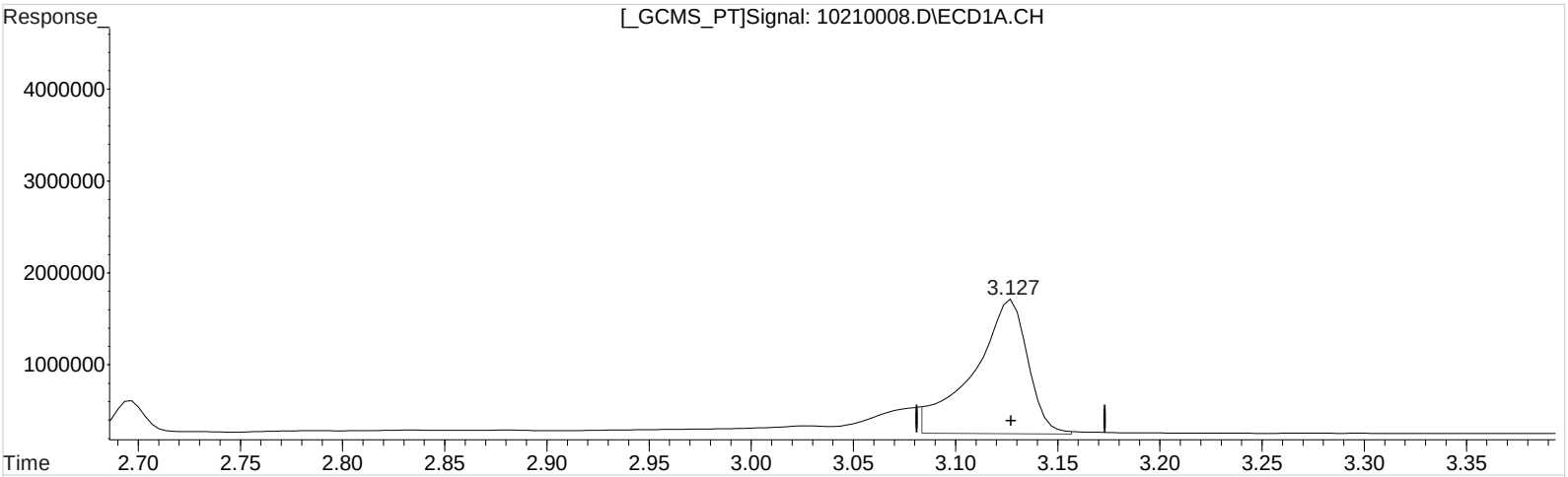
Quantitation Report (Qedit)

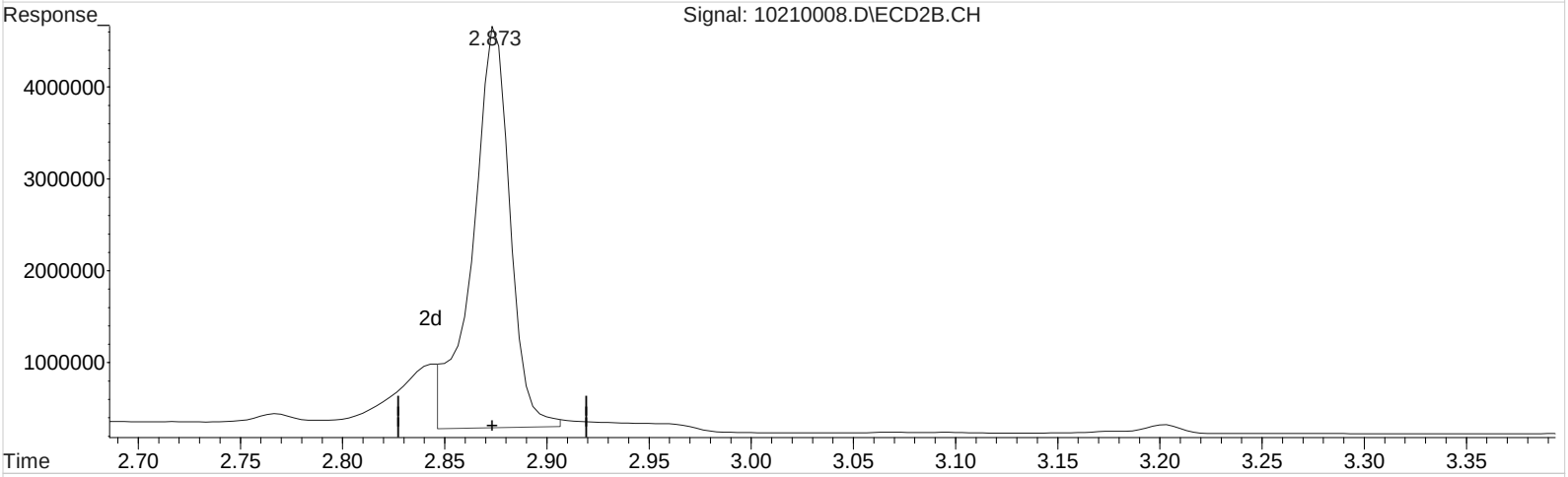
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.127min 113.511 ppb m

response 2668589

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.873min 117.152 ppb m

response 5506745

(+) = Expected Retention Time

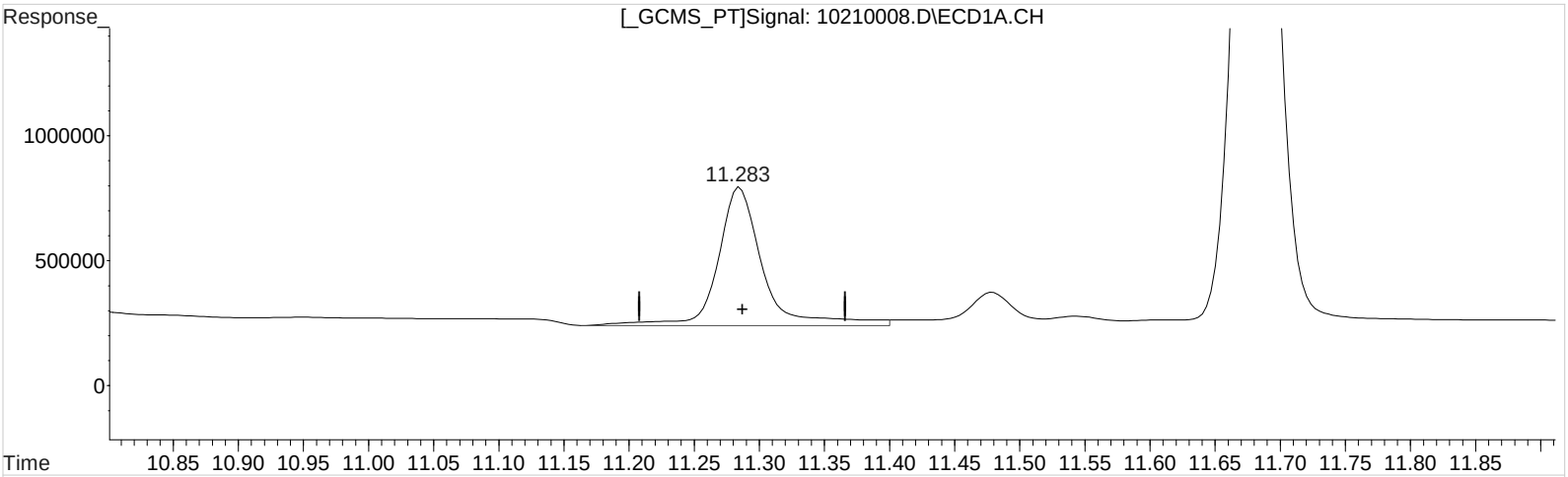
Quantitation Report (Qedit)

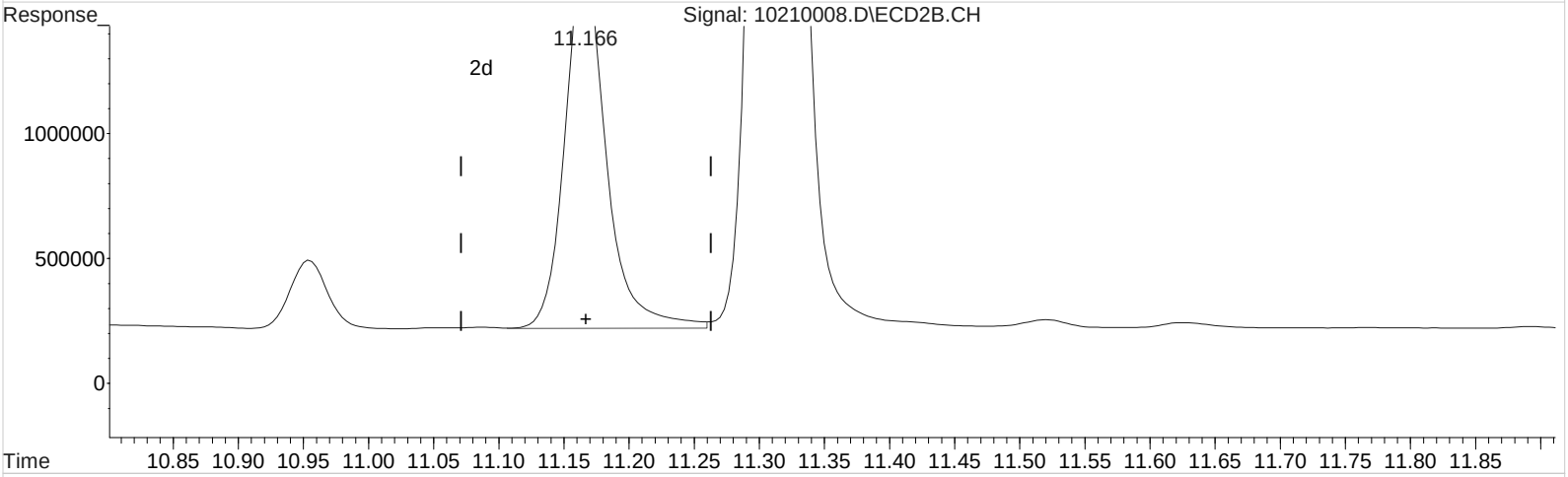
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.283min 135.786 ppb

response 1331036

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

11.166min 118.254 ppb

response 3225586

Manual Integration:

Before

10/21/20

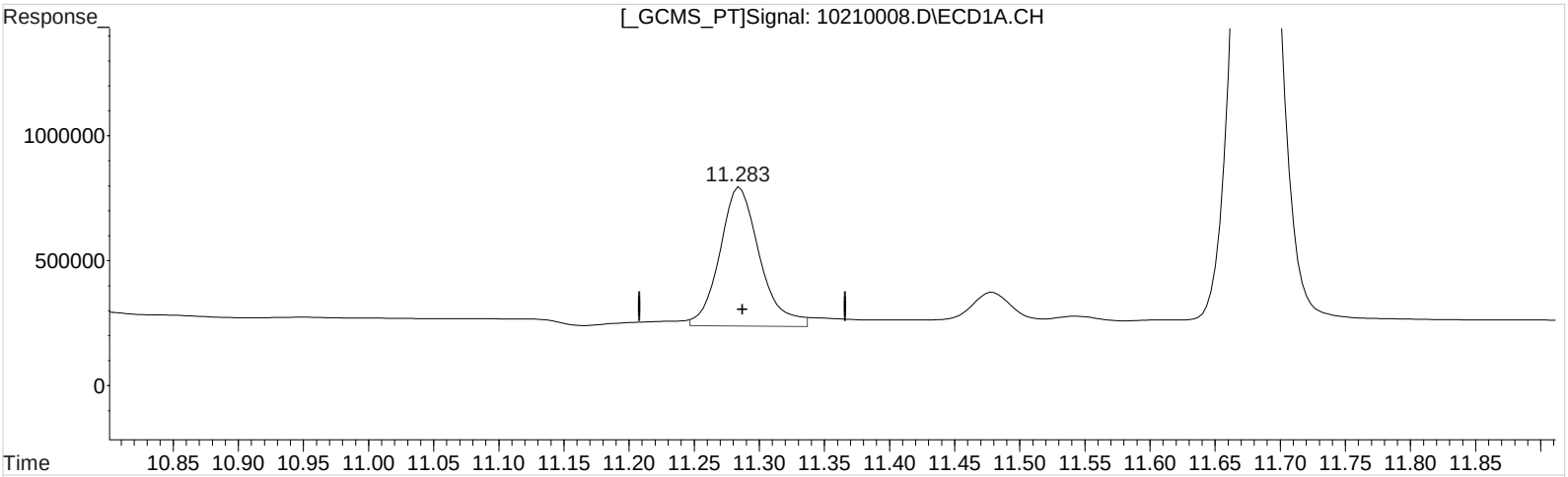
(+) = Expected Retention Time

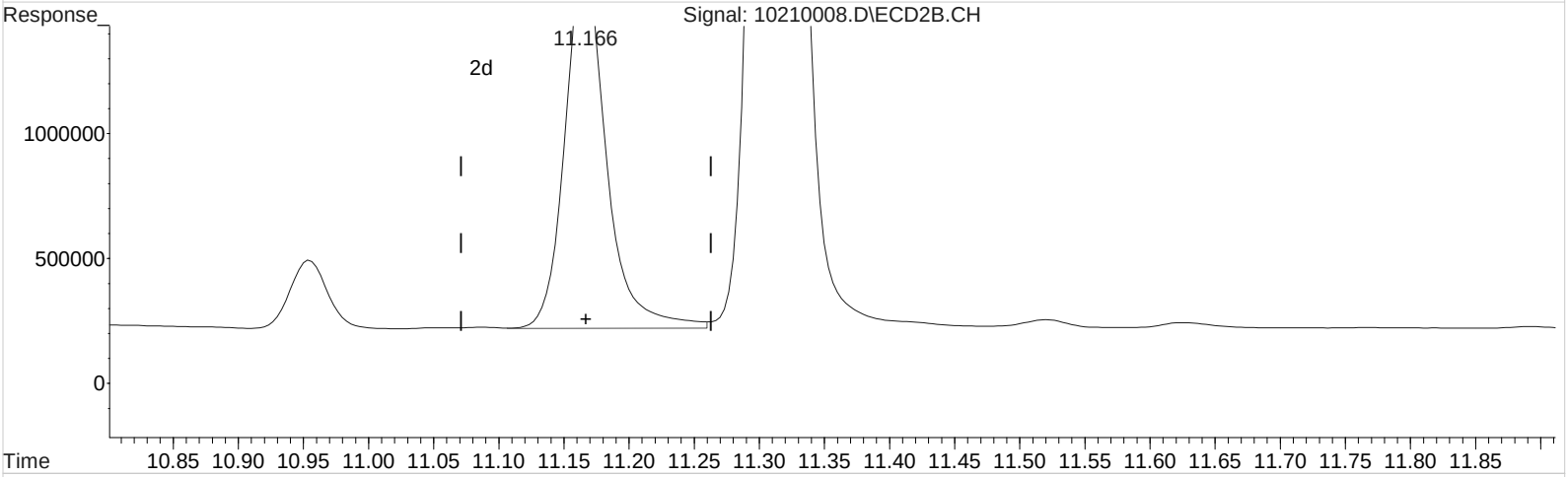
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.283min 120.887 ppb m

response 1184989

Manual Integration:

After

Baseline/Shoulder

10/21/20

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

11.166min 118.254 ppb

response 3225586

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	7.993	7.813	2343632	5169864	136.302	134.240
		Target Compounds						
1)	m	Dalapon	3.127	2.873	3258567	6370947	139.287m	135.187m
3)	m	Dicamba	8.213	7.916	9633232	19969572	142.235	140.119
4)	m	MCPP	8.297	8.103	633683	2215911	14149.230	13967.949
5)	m	MCPA	8.563	8.350	847585	2986150	14073.890	13936.089
6)	m	Dichloroprop	8.963	8.750	2480194	5391085	142.454	141.013
7)	m	2,4-D	9.320	9.056	2855823	6510874	142.843	140.598
8)	m	2,4,5-TP ...	10.260	10.126	13345050	27761527	144.324	142.275
9)	m	2,4,5-T	10.703	10.530	11750806	26085006	146.702	142.112
10)	m	2,4-DB	11.283	11.163	1423732	3879490	146.356m	142.303
11)	m	Dinoseb	11.680	11.310	8545635	18219499	144.368	141.640

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

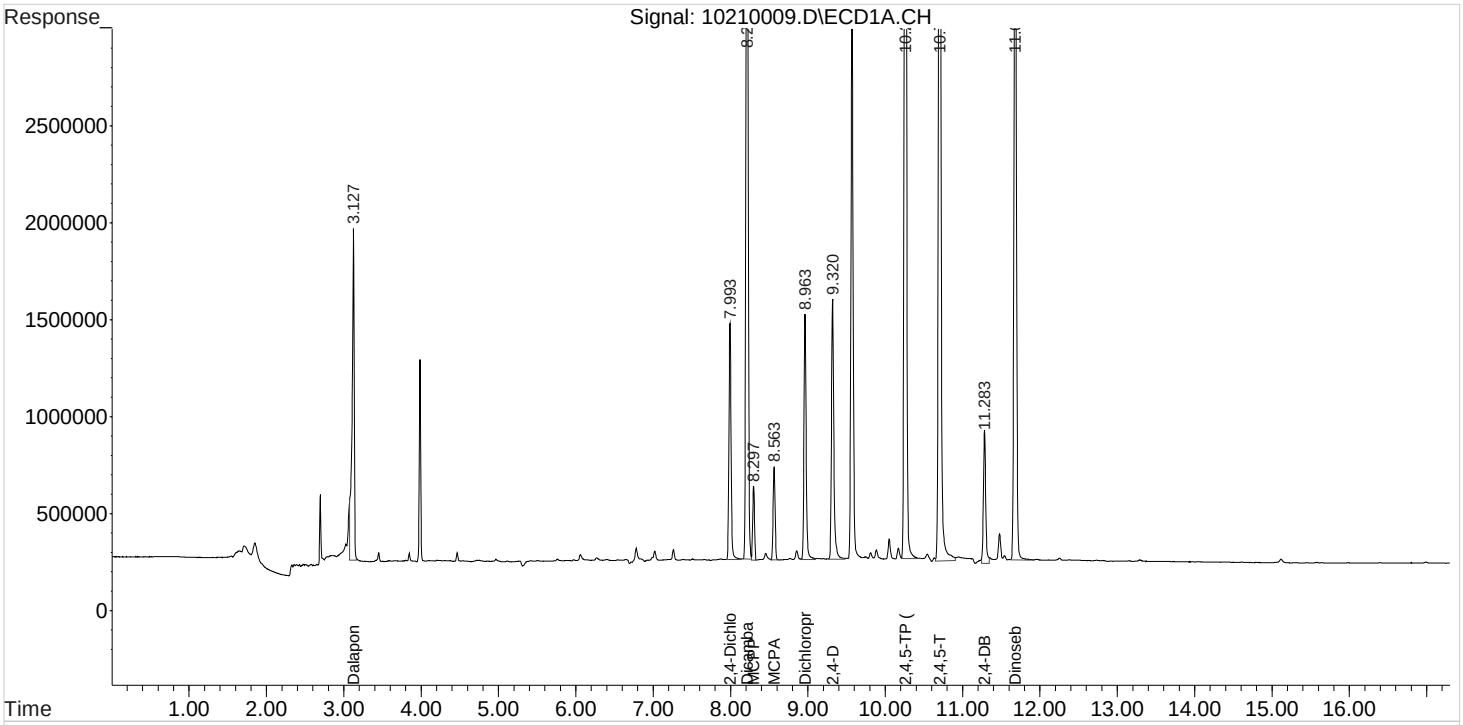
Quantitation Report (QT Reviewed)

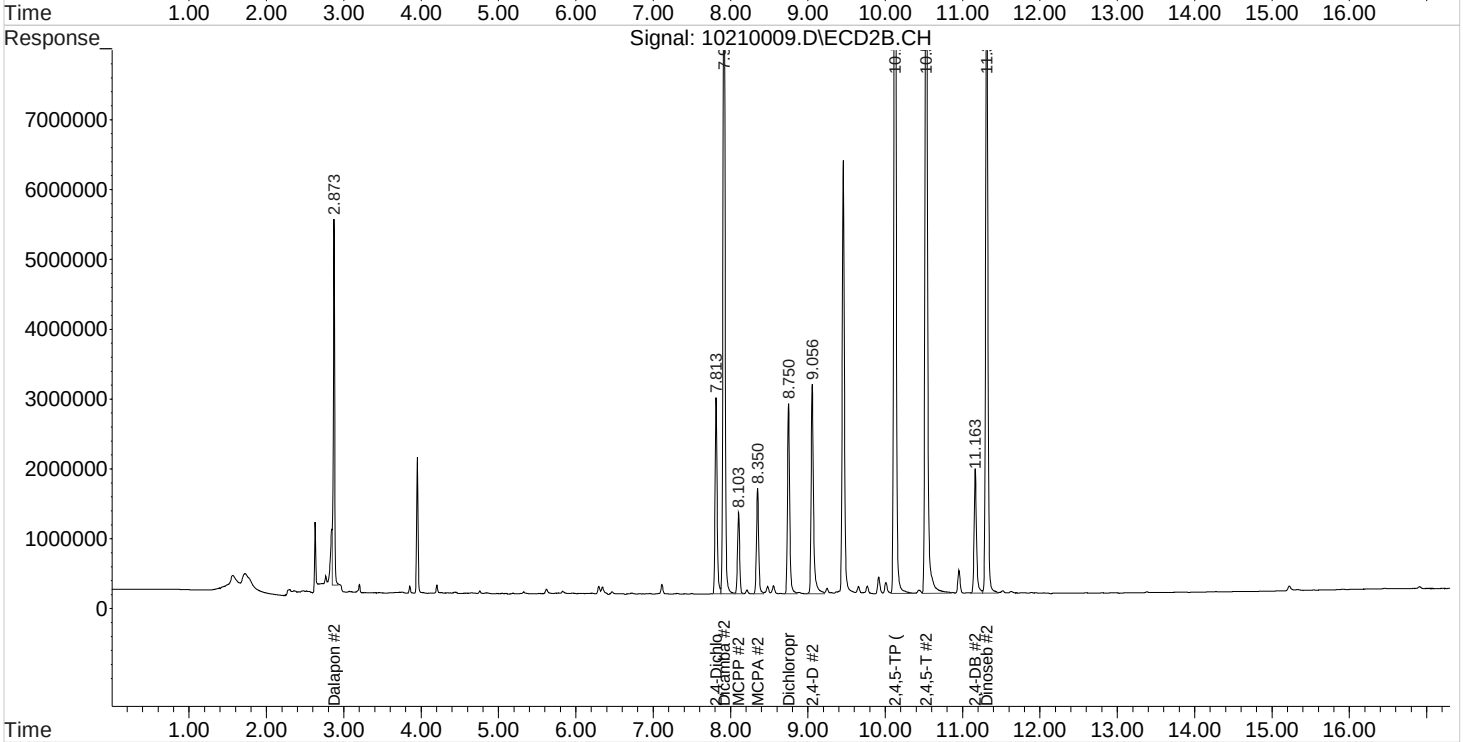
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





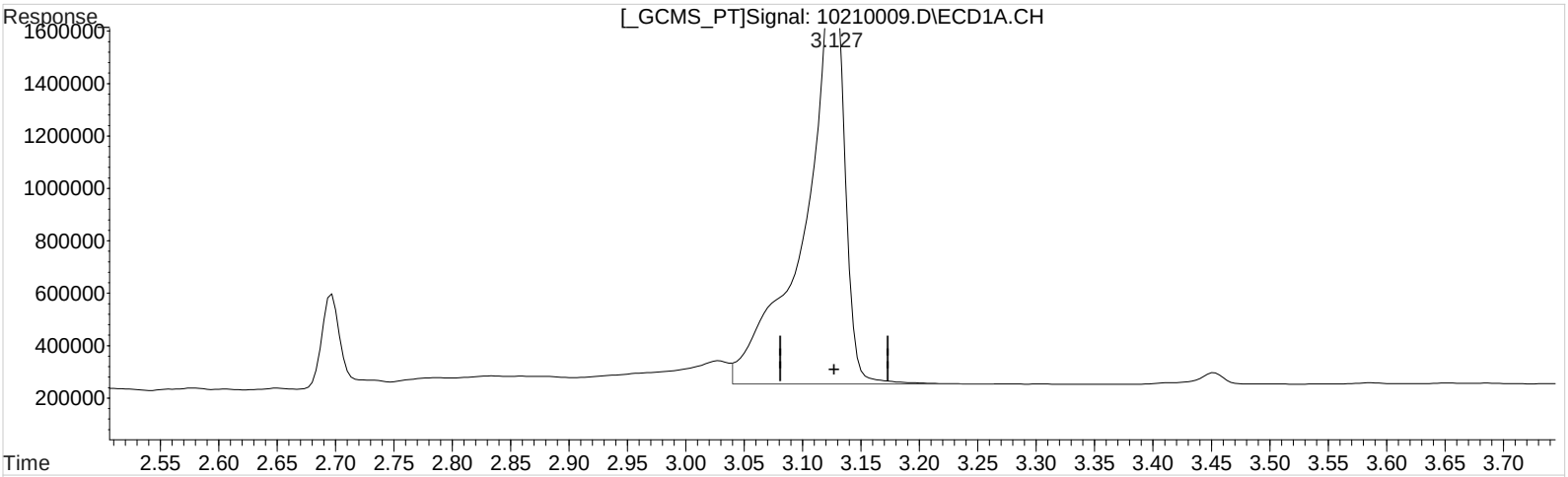
Quantitation Report (Qedit)

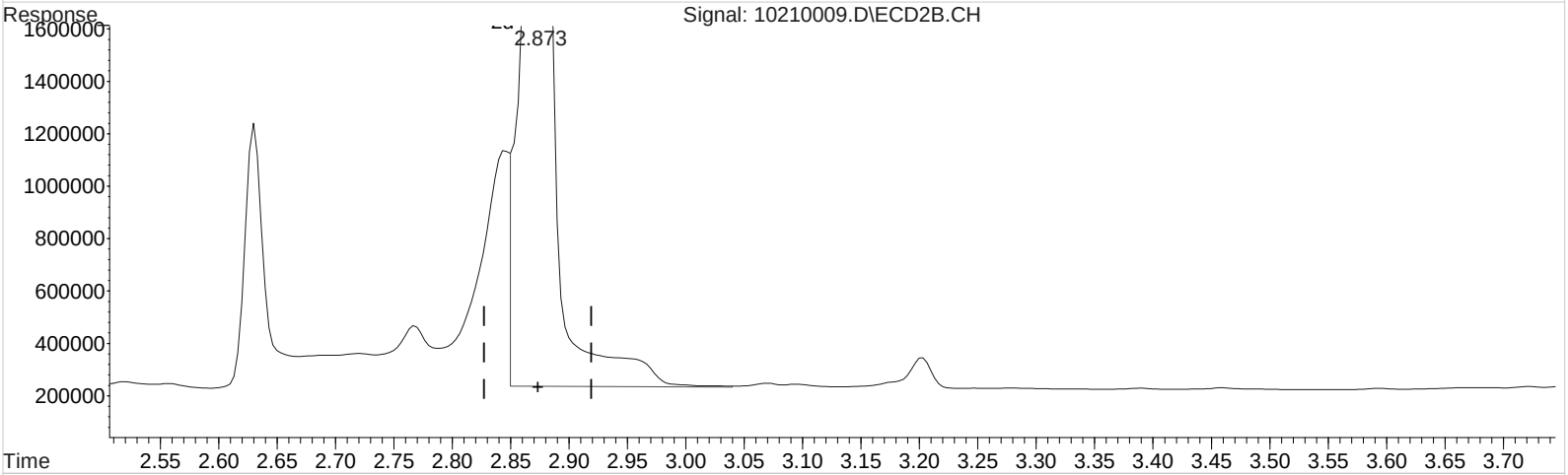
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.127min 160.523 ppb

response 3755373

(1) Dalapon #2 (m)

2.873min 151.774 ppb

response 7152678

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

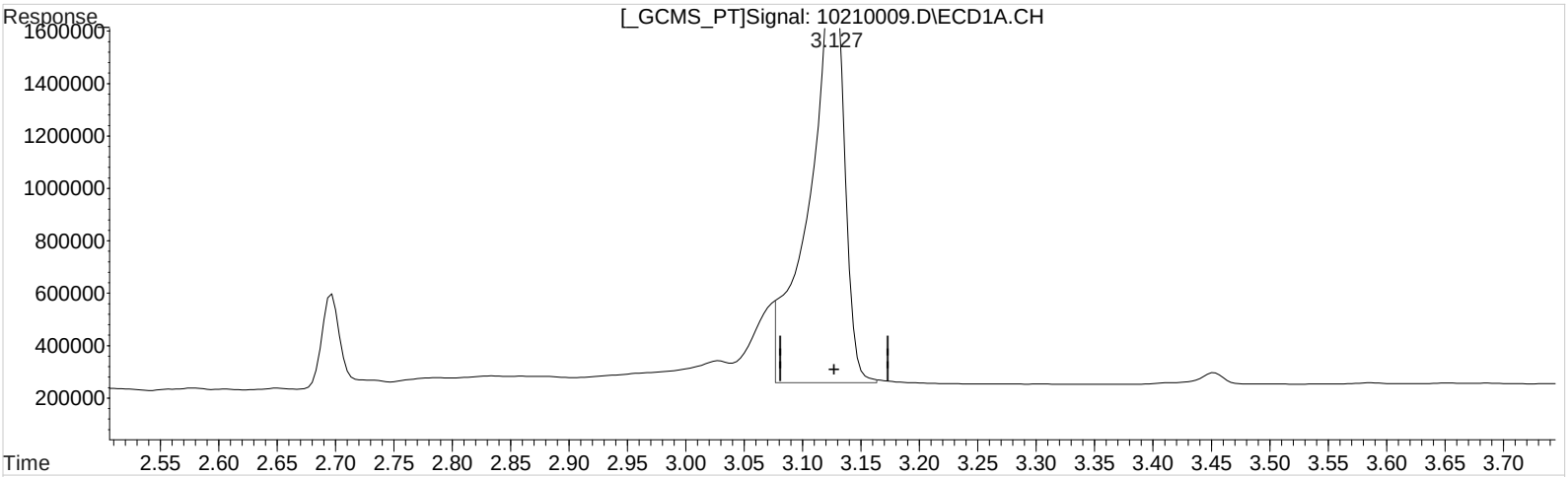
Quantitation Report (Qedit)

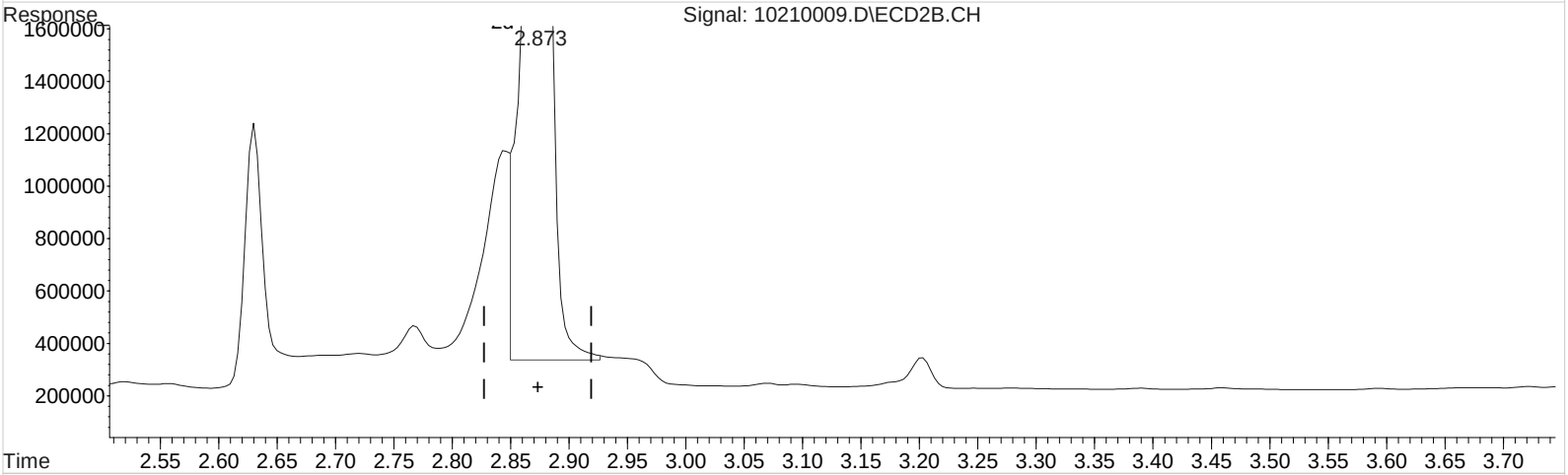
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.127min 139.287 ppb m

response 3258567

(1) Dalapon #2 (m)

2.873min 135.187 ppb m

response 6370947

Manual Integration:

After

Baseline/Shoulder

10/21/20

(+) = Expected Retention Time

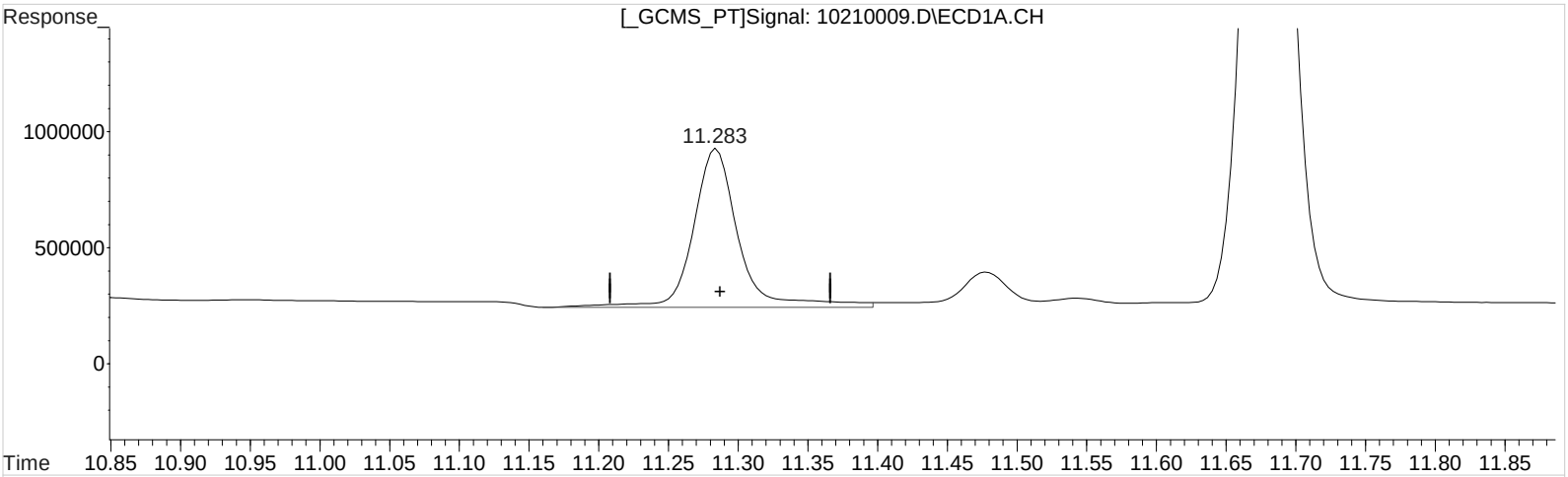
Quantitation Report (Qedit)

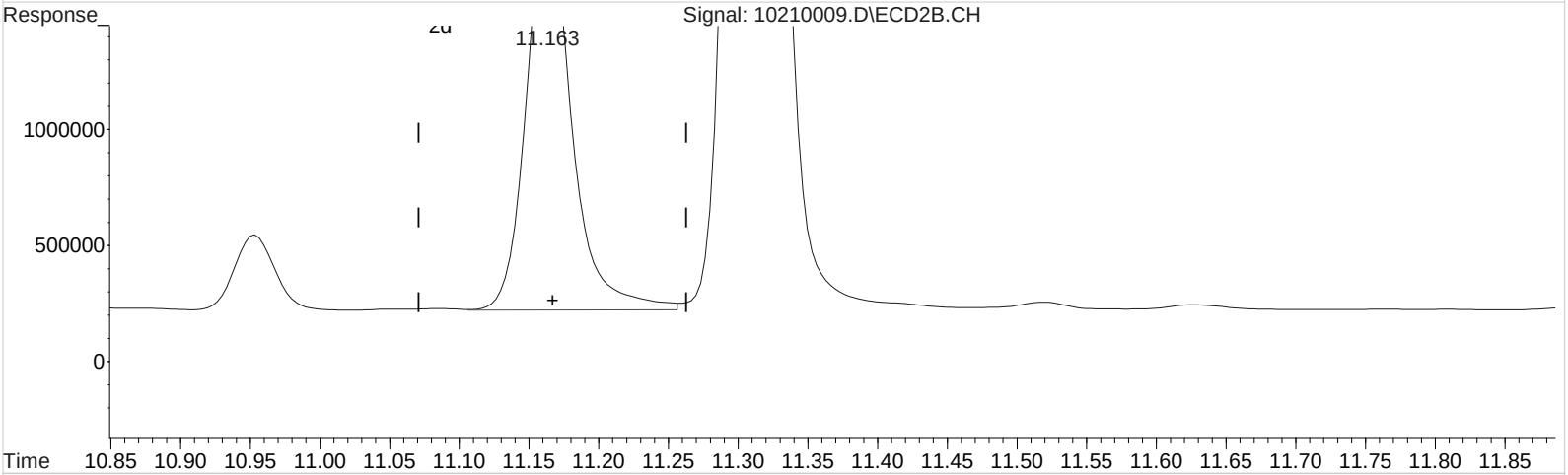
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.283min 160.143 ppb

response 1557848

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

11.163min 142.303 ppb

response 3879490

Manual Integration:

Before

10/21/20

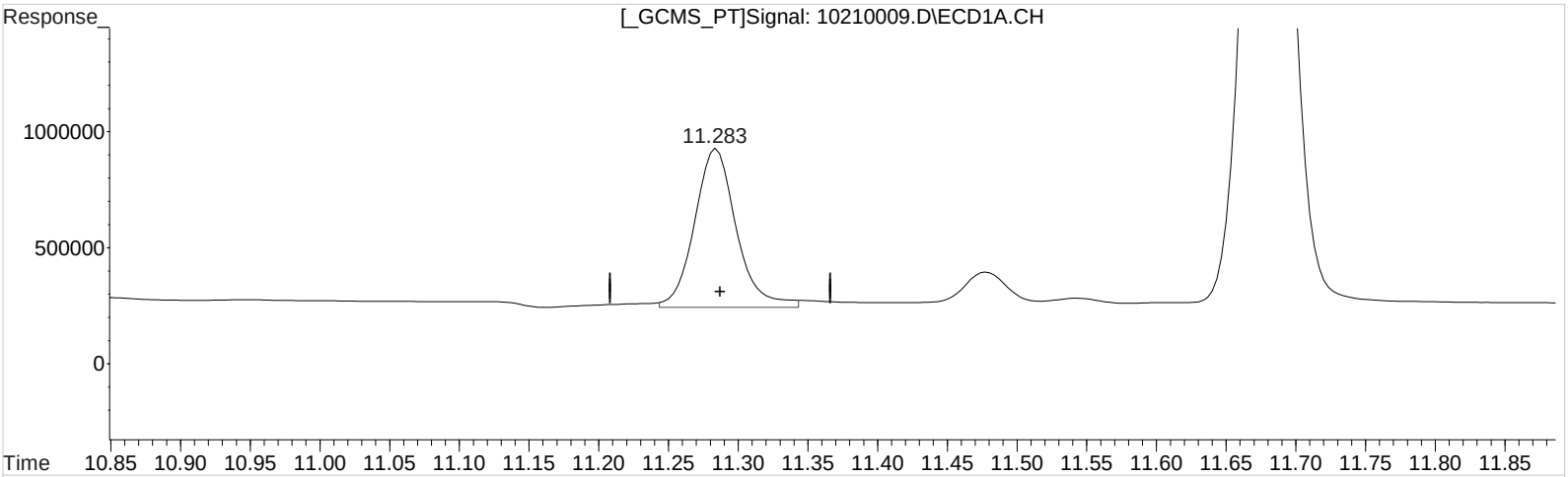
(+) = Expected Retention Time

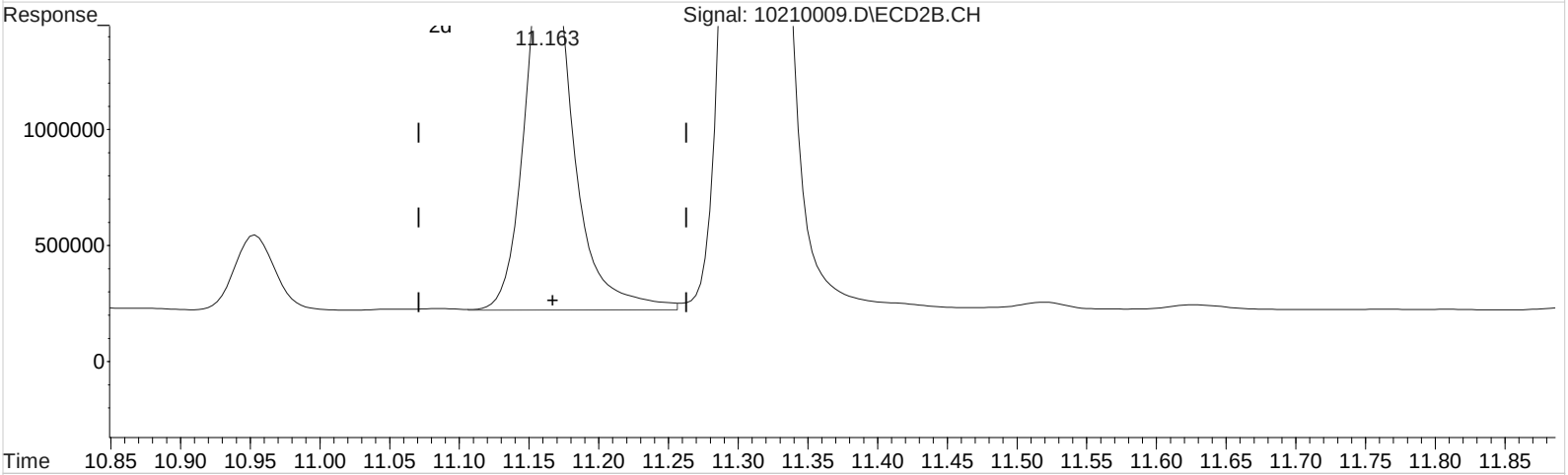
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.283min 146.356 ppb m

response 1423732

Manual Integration:

After

Baseline/Shoulder

10/21/20

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

11.163min 142.303 ppb

response 3879490

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:20:38 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.993	7.813	2673899	6019072	154.374	155.532
	Target Compounds						
1) m	Dalapon	3.126	2.873	3756341	7607536	161.174m	162.479m
3) m	Dicamba	8.213	7.916	11056277	23365839	162.598	163.645
4) m	MCPP	8.300	8.106	732283	2515897	16313.328	15589.638
5) m	MCPA	8.563	8.353	977526	3389231	16169.886	15560.846
6) m	Dichloroprop	8.963	8.749	2846415	6241057	162.675	162.314
7) m	2,4-D	9.320	9.056	3276369	7528670	163.538	161.603
8) m	2,4,5-TP ...	10.260	10.129	15378740	32362961	166.306	165.616
9) m	2,4,5-T	10.703	10.529	13208642	30332986	164.413	164.939
10) m	2,4-DB	11.283	11.163	1631284	4482448	168.722m	163.801
11) m	Dinoseb	11.683	11.313	9738174	21149943	164.104	163.966

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

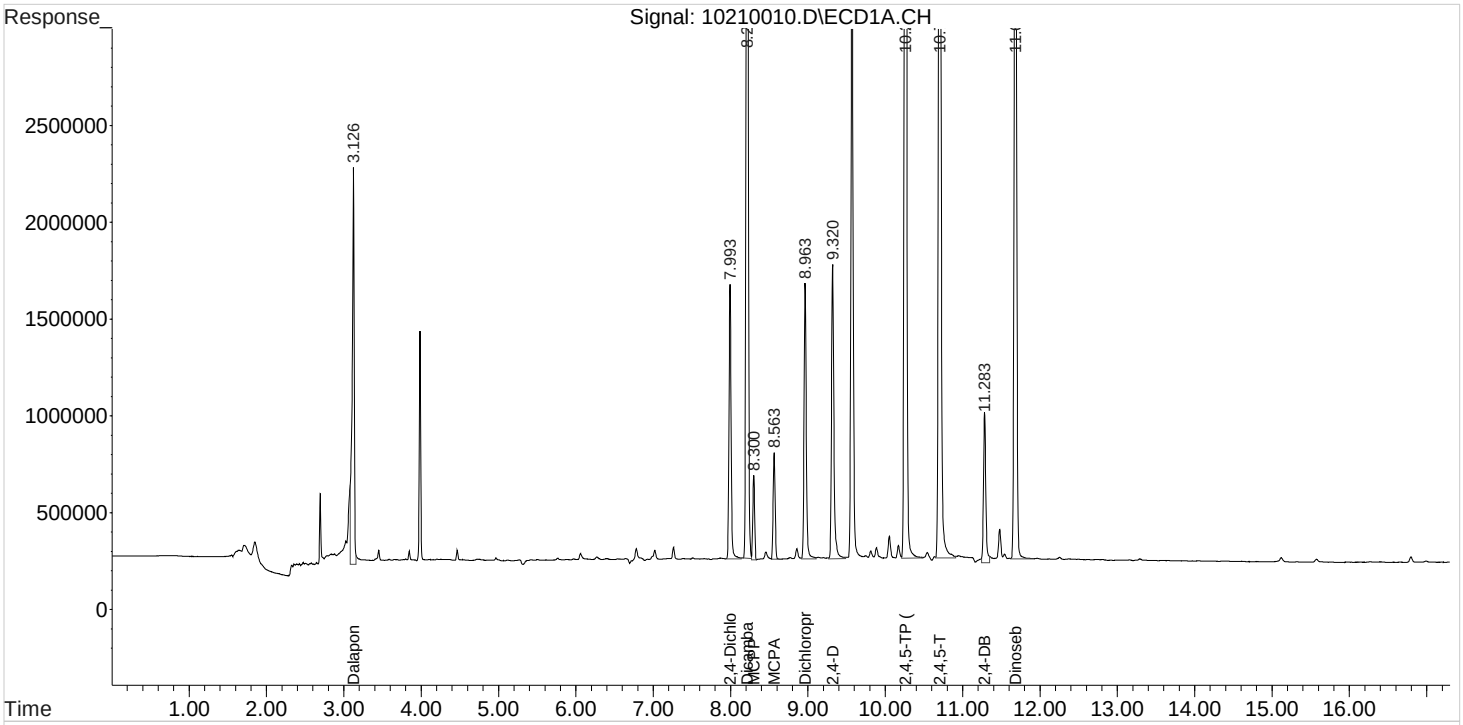
Quantitation Report (QT Reviewed)

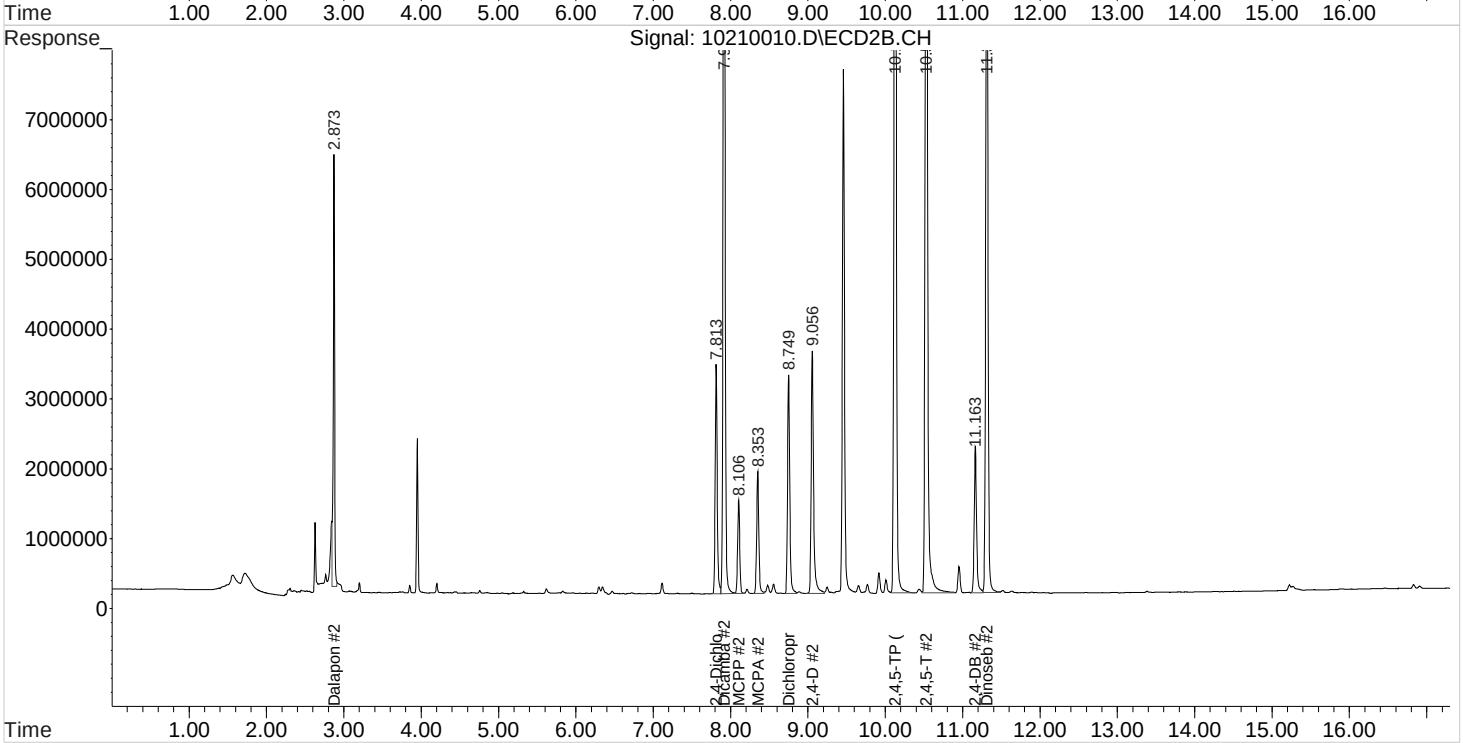
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:20:38 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





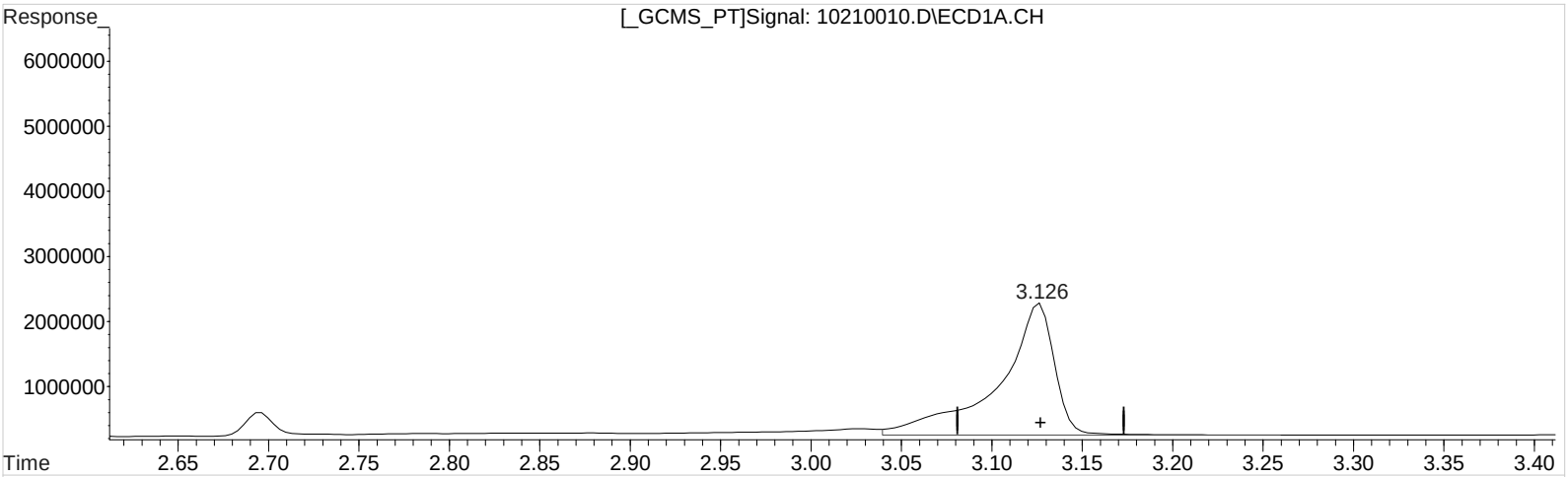
Quantitation Report (Qedit)

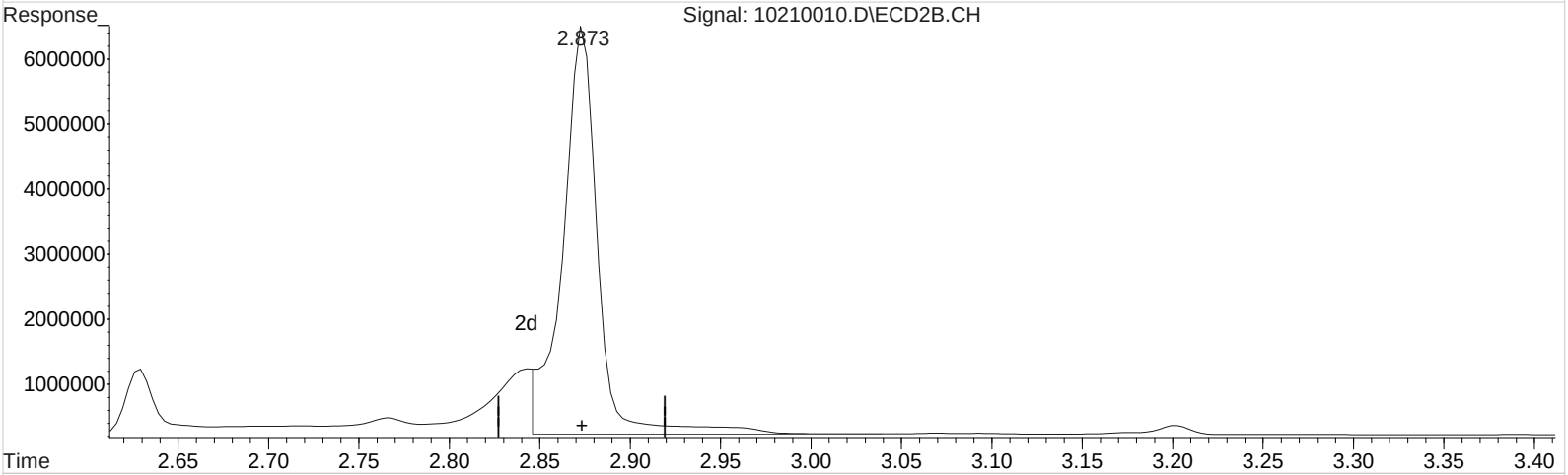
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.126min 186.524 ppb

response 4347148

(1) Dalapon #2 (m)

2.873min 178.616 ppb

response 8363091

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

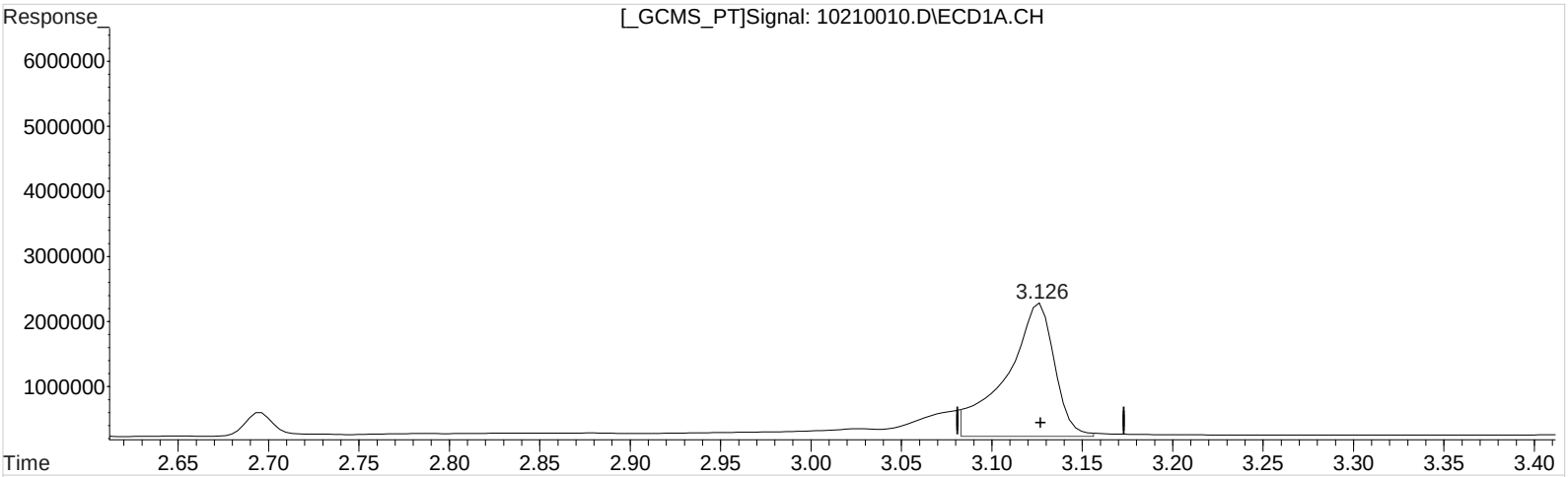
Quantitation Report (Qedit)

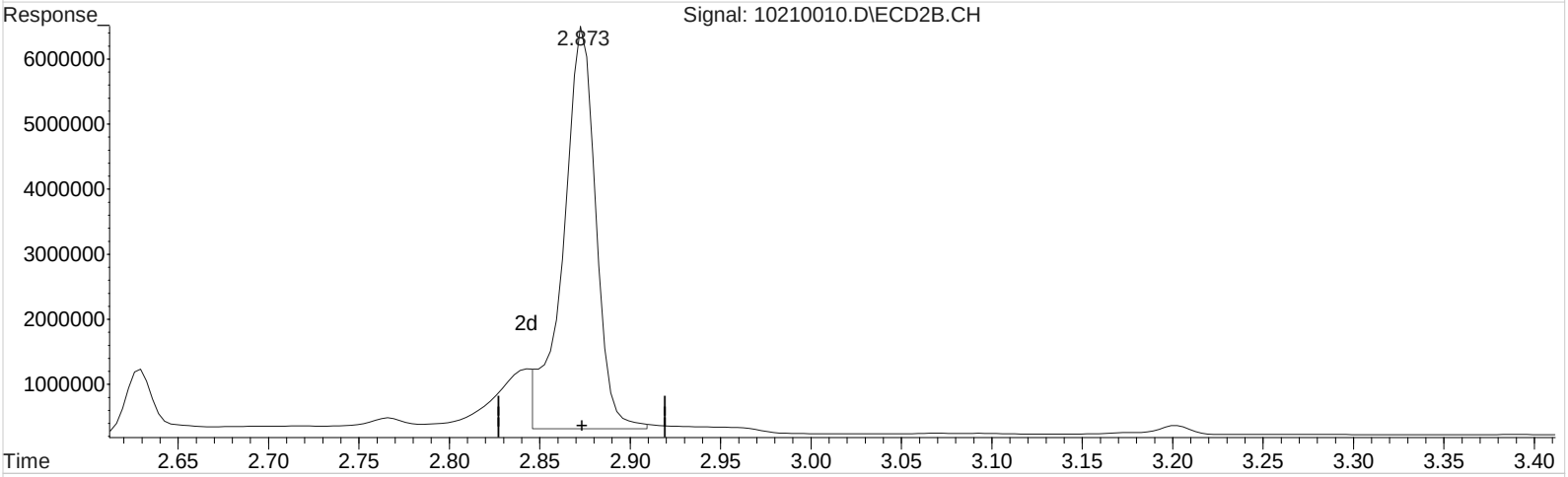
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.126min 161.174 ppb m

response 3756341

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.873min 162.479 ppb m

response 7607536

(+) = Expected Retention Time

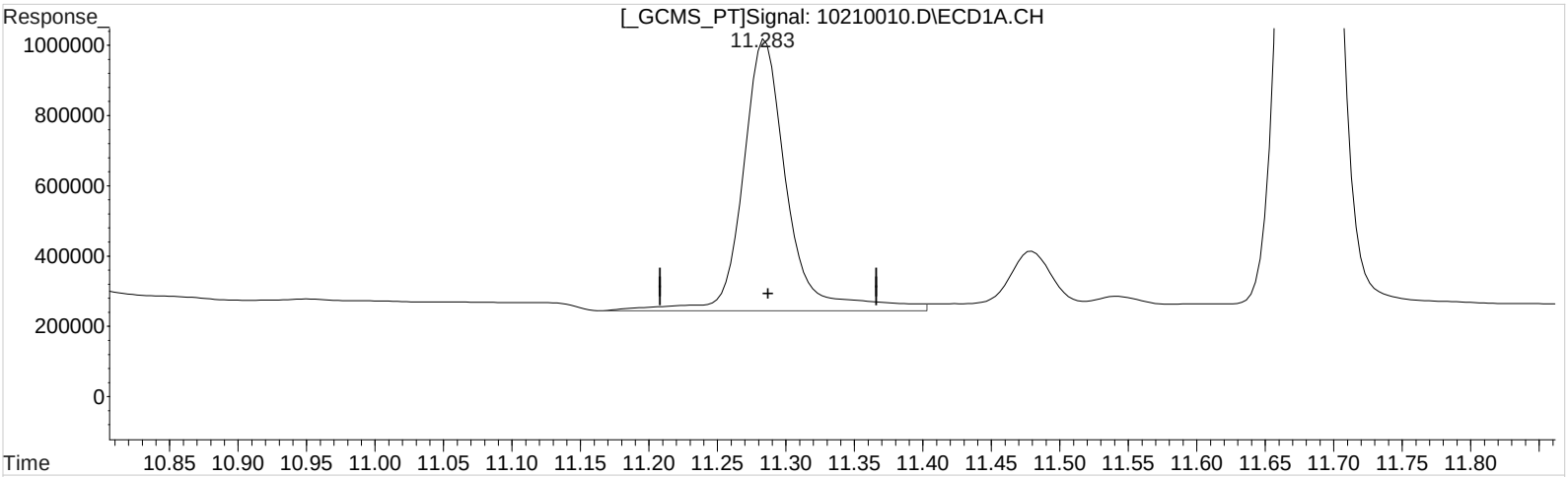
Quantitation Report (Qedit)

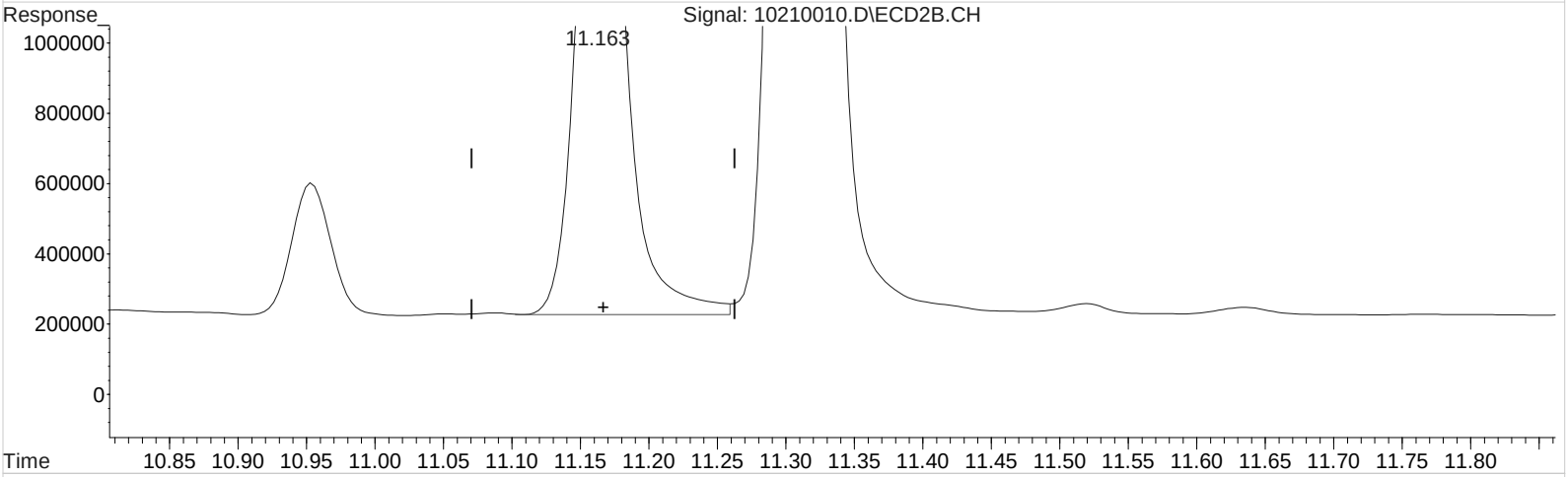
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.283min 180.728 ppb

response 1747369

Manual Integration:

Before

10/21/20

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

11.163min 163.801 ppb

response 4482448

(+) = Expected Retention Time

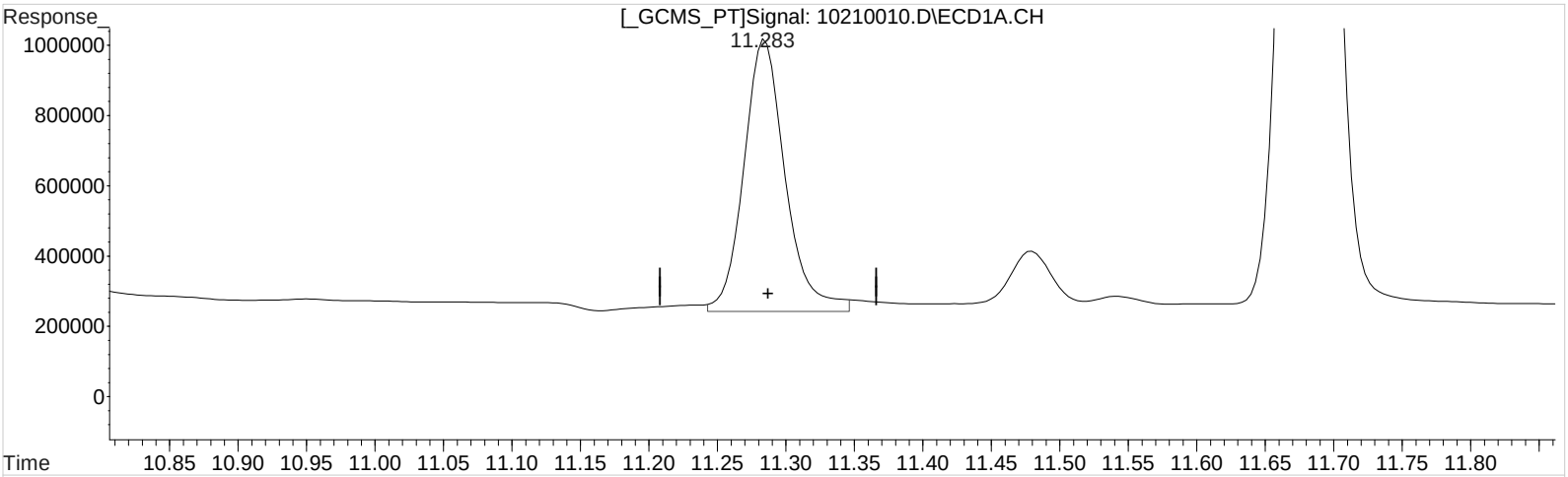
Quantitation Report (Qedit)

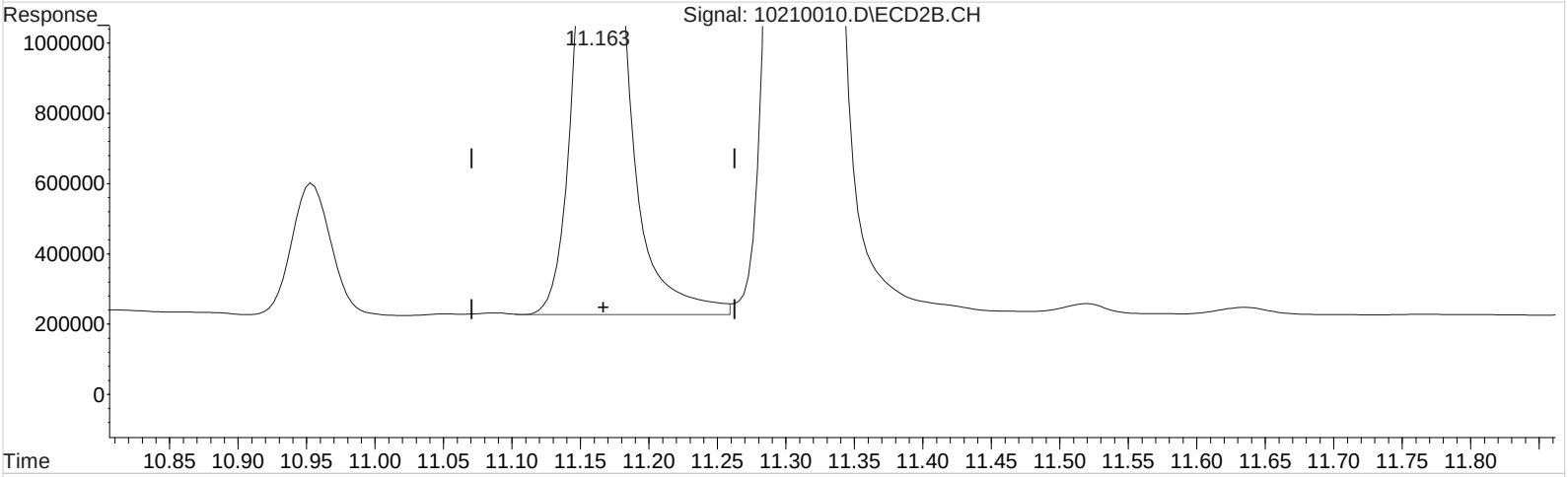
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.283min 168.722 ppb m

response 1631284

Manual Integration:

After

Baseline/Shoulder

10/21/20

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

11.163min 163.801 ppb

response 4482448

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:09 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.991	7.814	3011902	6830371	167.857	172.784
	Target Compounds						
1) m	Dalapon	3.124	2.874	4166081	8620213	175.503m	186.129m
3) m	Dicamba	8.214	7.914	12614321	26816087	183.029	187.560
4) m	MCPP	8.298	8.104	844322	2817400	18845.702	16314.999
5) m	MCPA	8.564	8.351	1113618	3800297	18157.111	16358.900
6) m	Dichloroprop	8.964	8.751	3178809	7078599	175.122	179.686
7) m	2,4-D	9.321	9.057	3668350	8558209	178.402	179.541
8) m	2,4,5-TP ...	10.261	10.127	17460527	37116608	187.555	189.785
9) m	2,4,5-T	10.704	10.531	15065337	34693502	185.502	187.719
10) m	2,4-DB	11.288	11.167	1779525	5143484	179.055m	186.595
11) m	Dinoseb	11.684	11.317	11030037	24155457	182.888	185.603

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

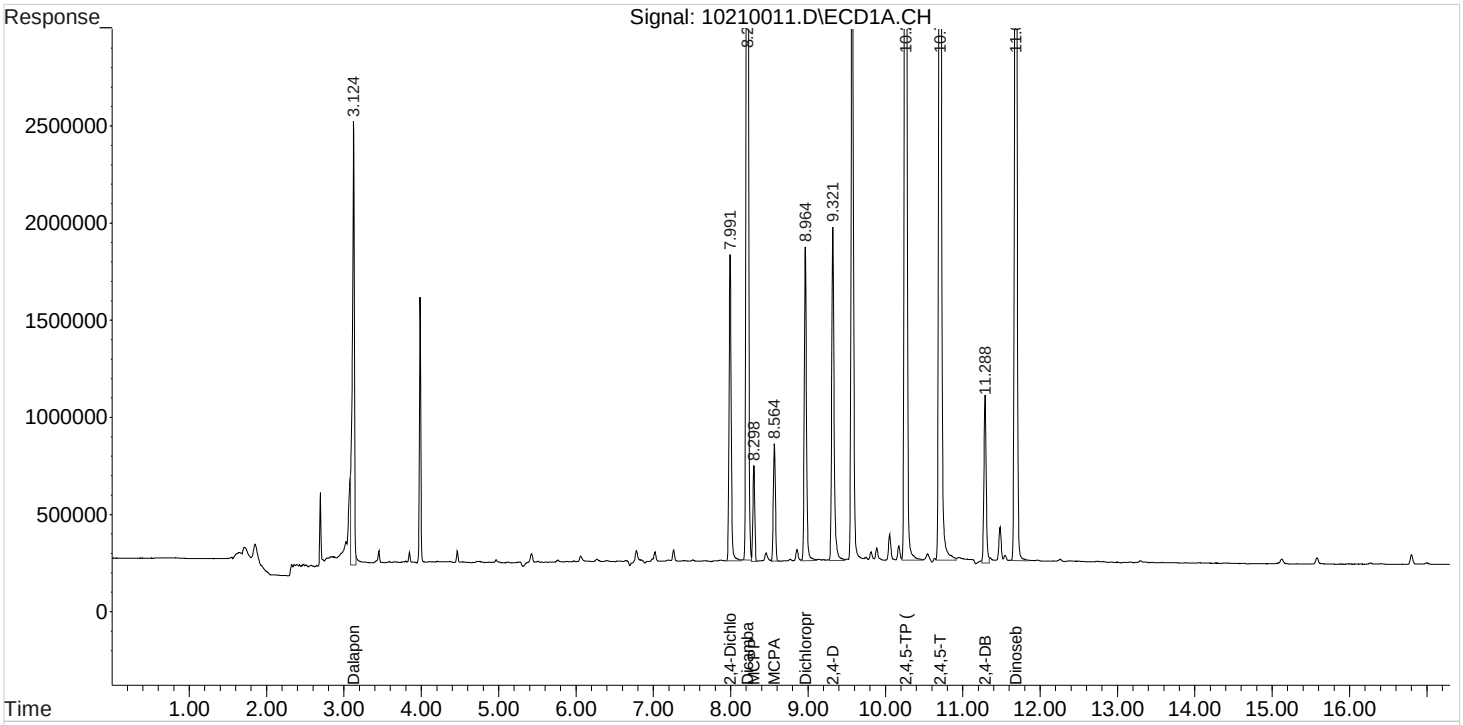
Quantitation Report (QT Reviewed)

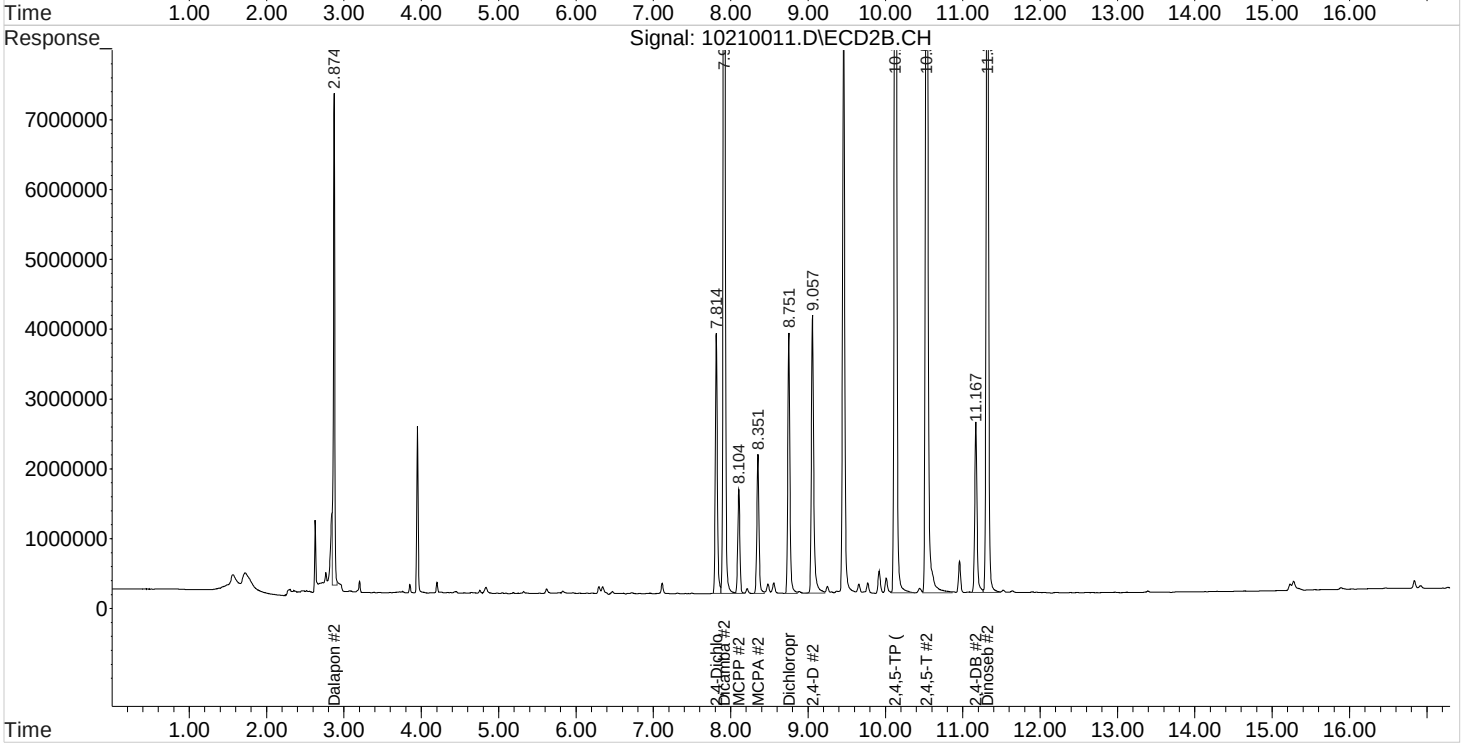
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:09 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





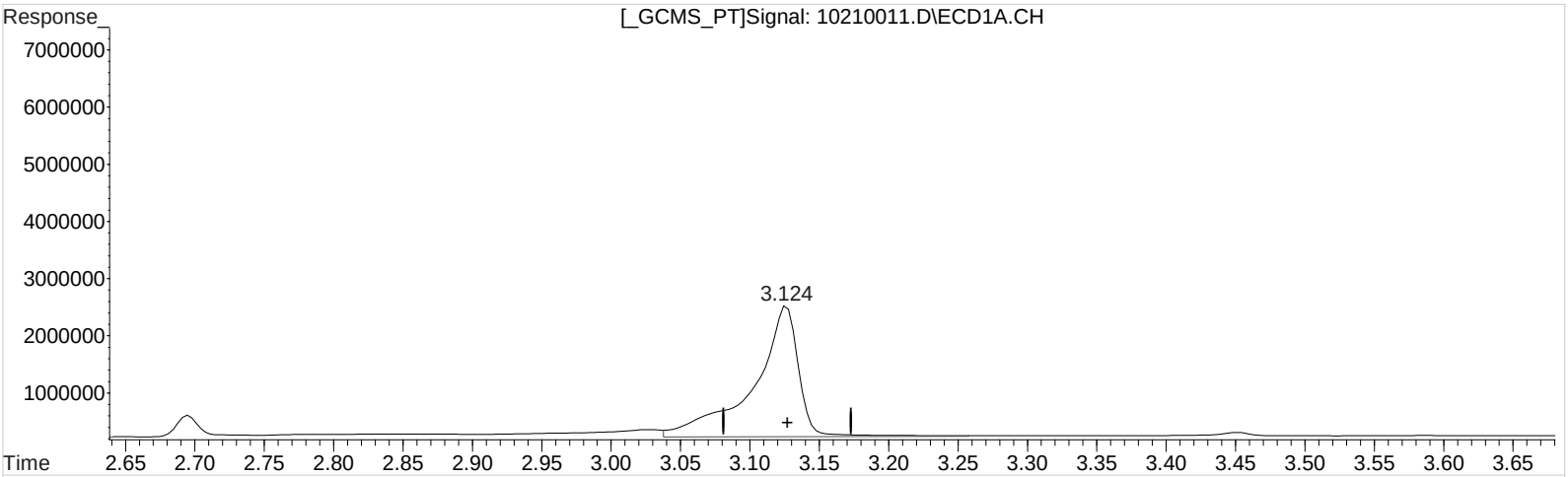
Quantitation Report (Qedit)

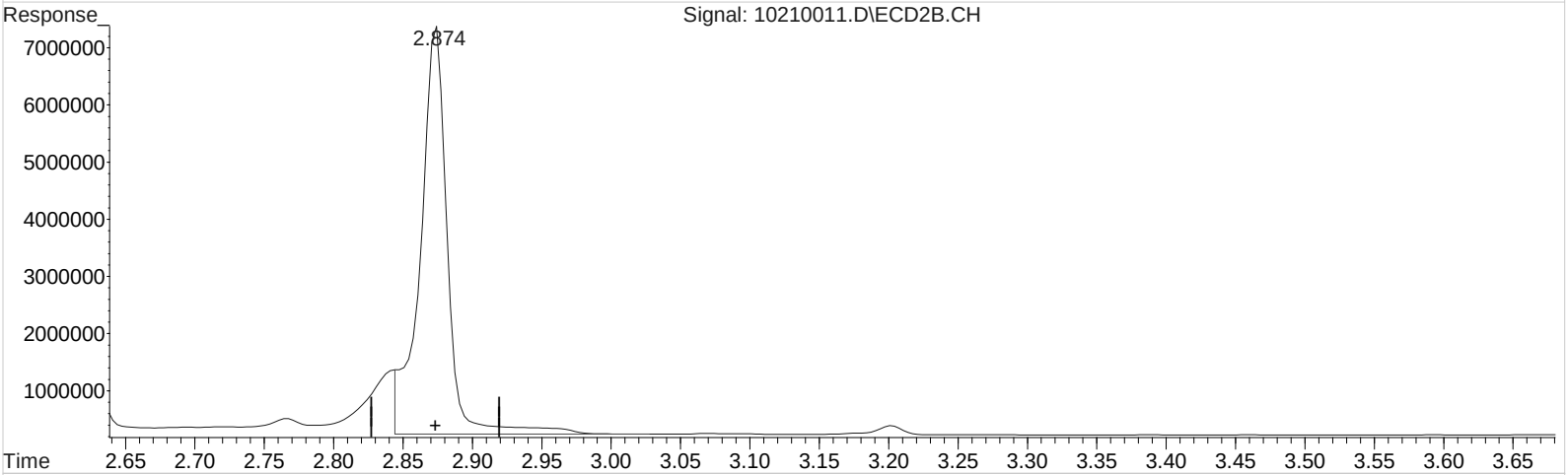
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.124min 217.220 ppb

response 5156366

(1) Dalapon #2 (m)

2.874min 208.116 ppb

response 9638480

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

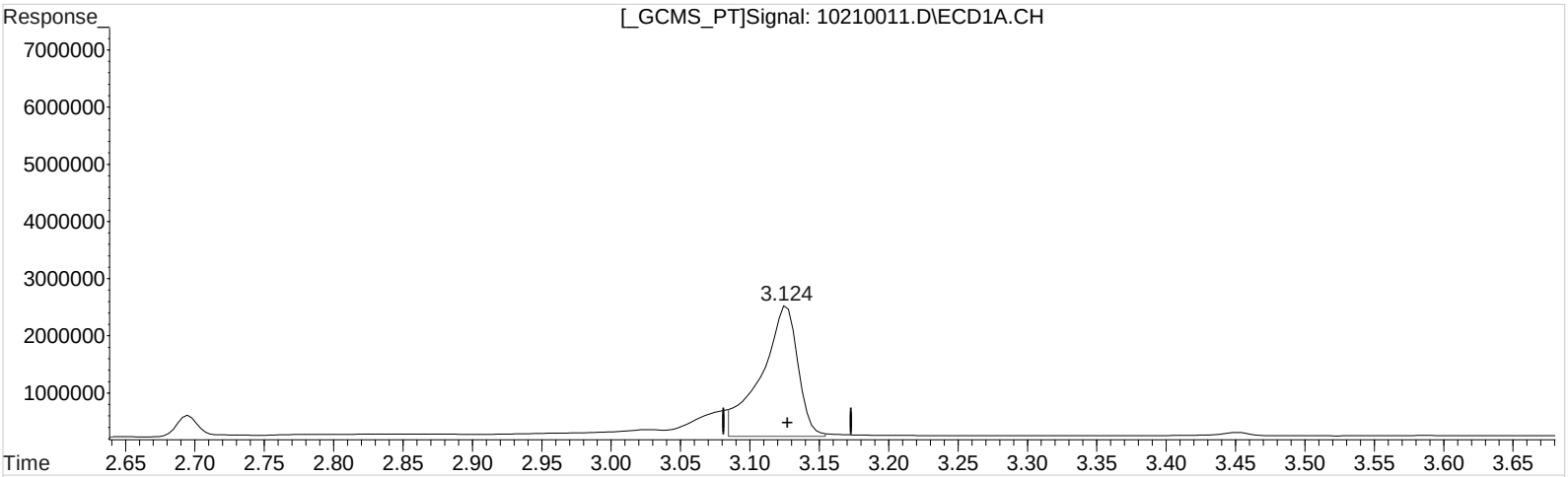
Quantitation Report (Qedit)

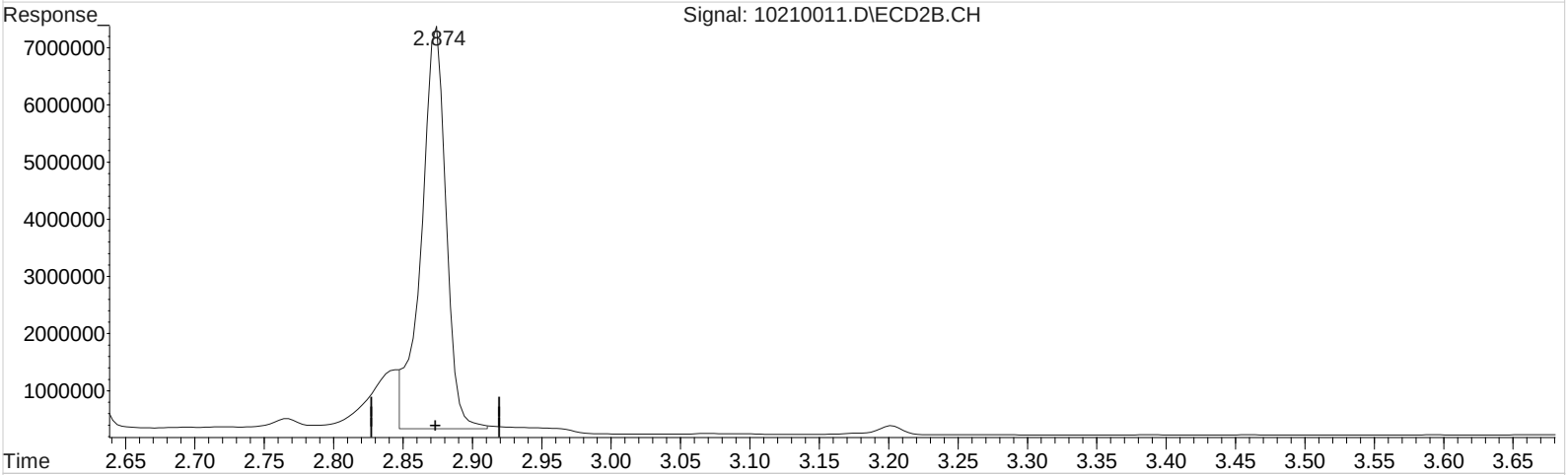
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.124min 175.503 ppb m

response 4166081

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.874min 186.129 ppb m

response 8620213

(+) = Expected Retention Time

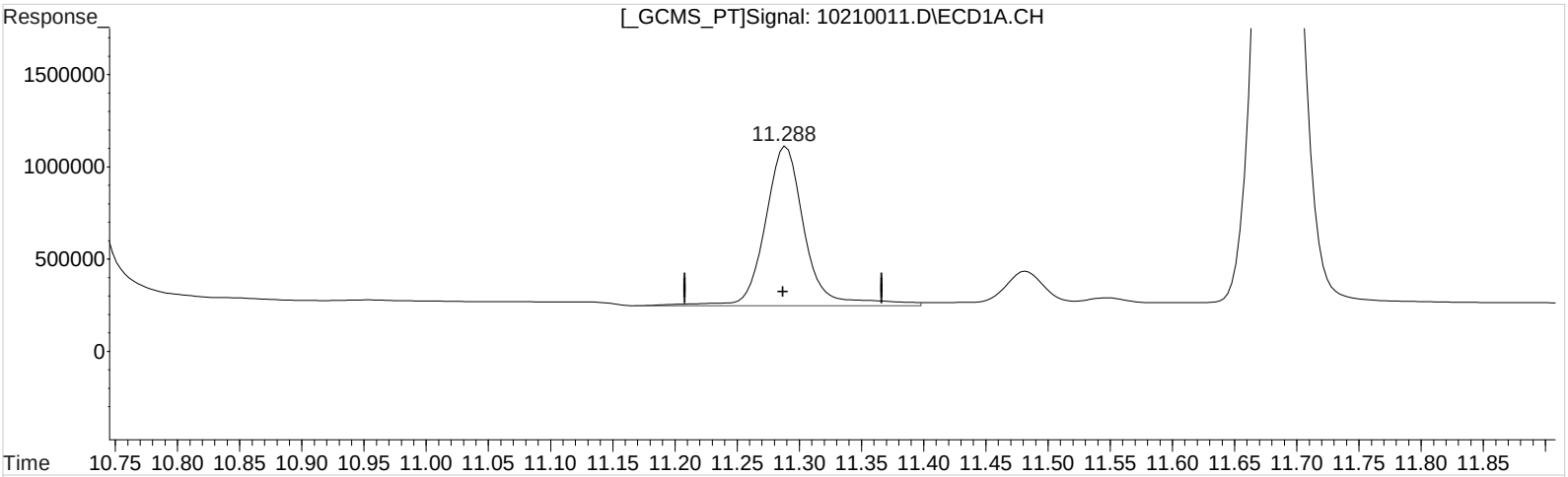
Quantitation Report (Qedit)

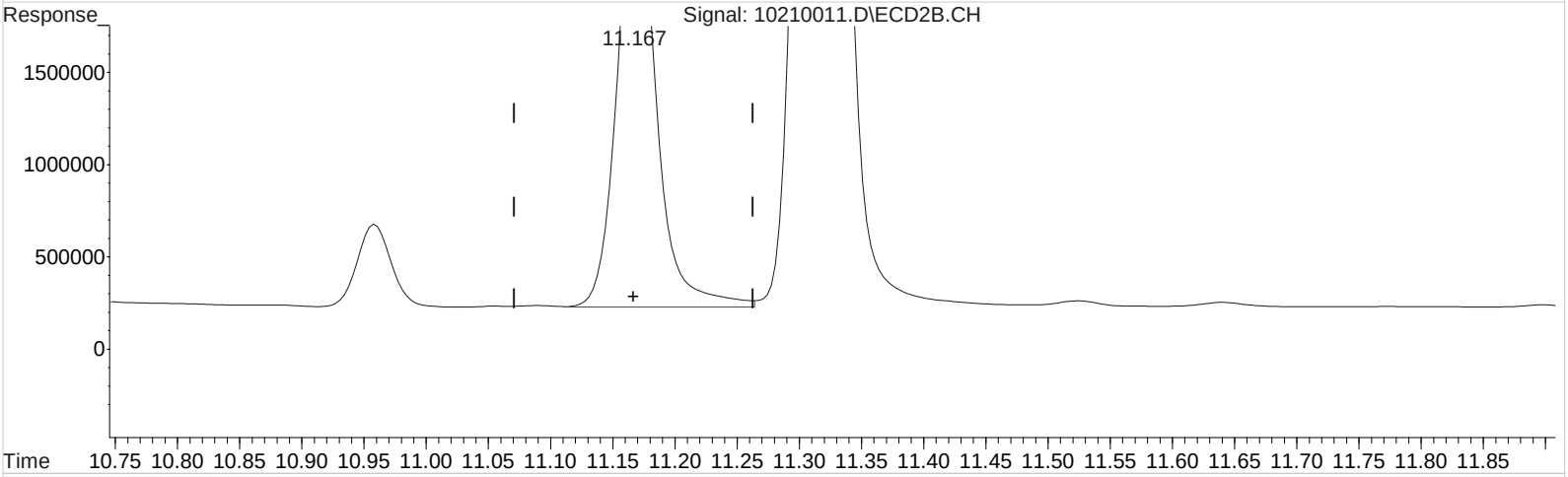
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.288min 194.607 ppb

response 1934084

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

11.167min 186.595 ppb

response 5143484

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

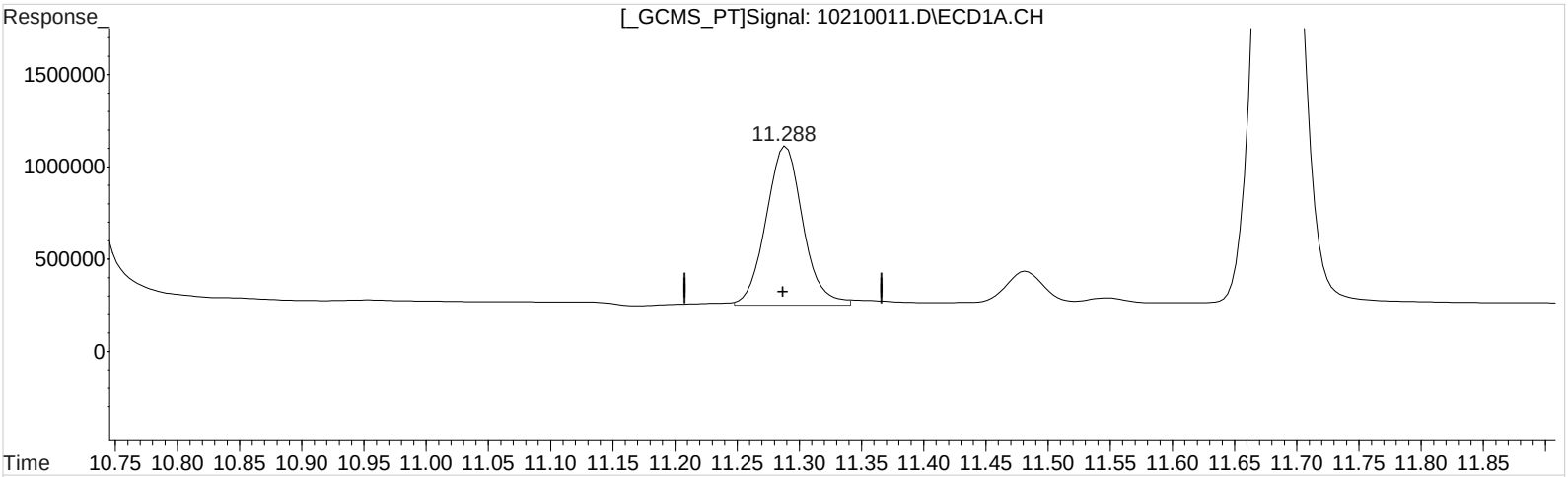
Quantitation Report (Qedit)

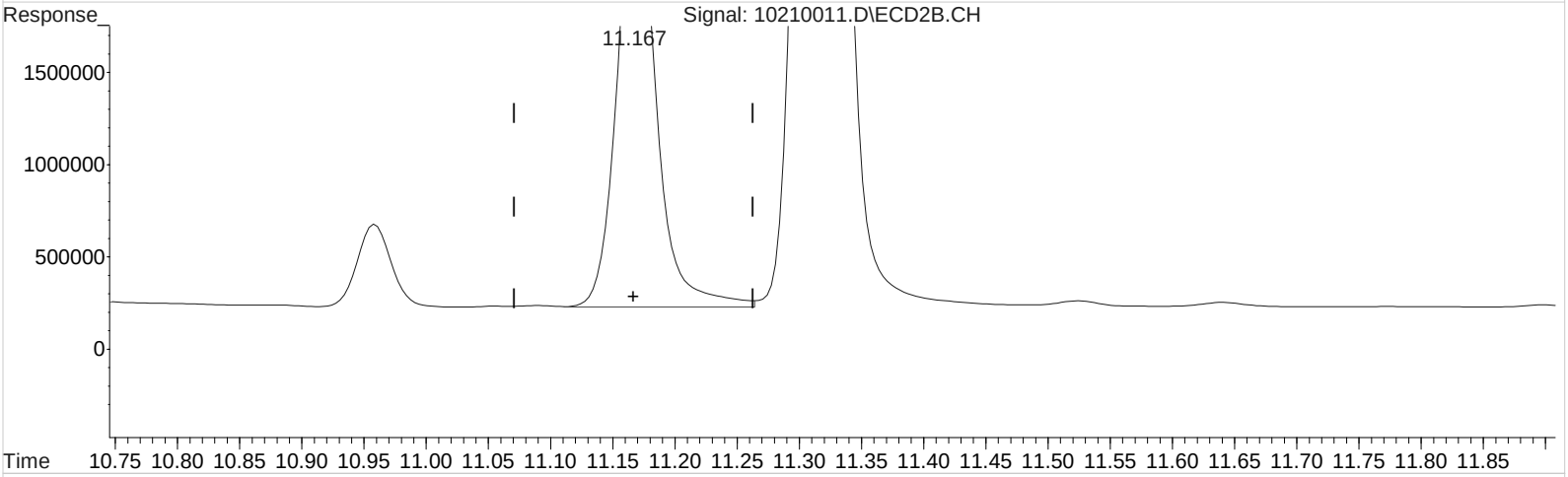
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(10) 2,4-DB (m)

11.288min 179.055 ppb m

response 1779525

Manual Integration:

After

Baseline/Shoulder

10/21/20

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

11.167min 186.595 ppb

response 5143484

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:34:58 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 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	3.124	2.874	2275140	4637166	93.788m	95.982m
3) m	Dicamba	8.214	7.917	6693399	14244119	95.894	96.106
4) m	MCPP	8.301	8.107	425850	1671884	9672.717	10136.278
5) m	MCPA	8.564	8.354	589571	2253395	10069.096	10030.937
6) m	Dichloroprop	8.967	8.754	1609647	3570683	86.318	85.597
7) m	2,4-D	9.324	9.064	1920602	4282415	90.423	83.643
8) m	2,4,5-TP ...	10.264	10.134	8747020	18777316	93.370	92.500
9) m	2,4,5-T	10.711	10.537	8103188	18900875	98.209	98.768
10) m	2,4-DB	11.291	11.174	963718	2763456	93.935	95.240
11) m	Dinoseb	11.687	11.320	5877452	12904696	95.003	94.362

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

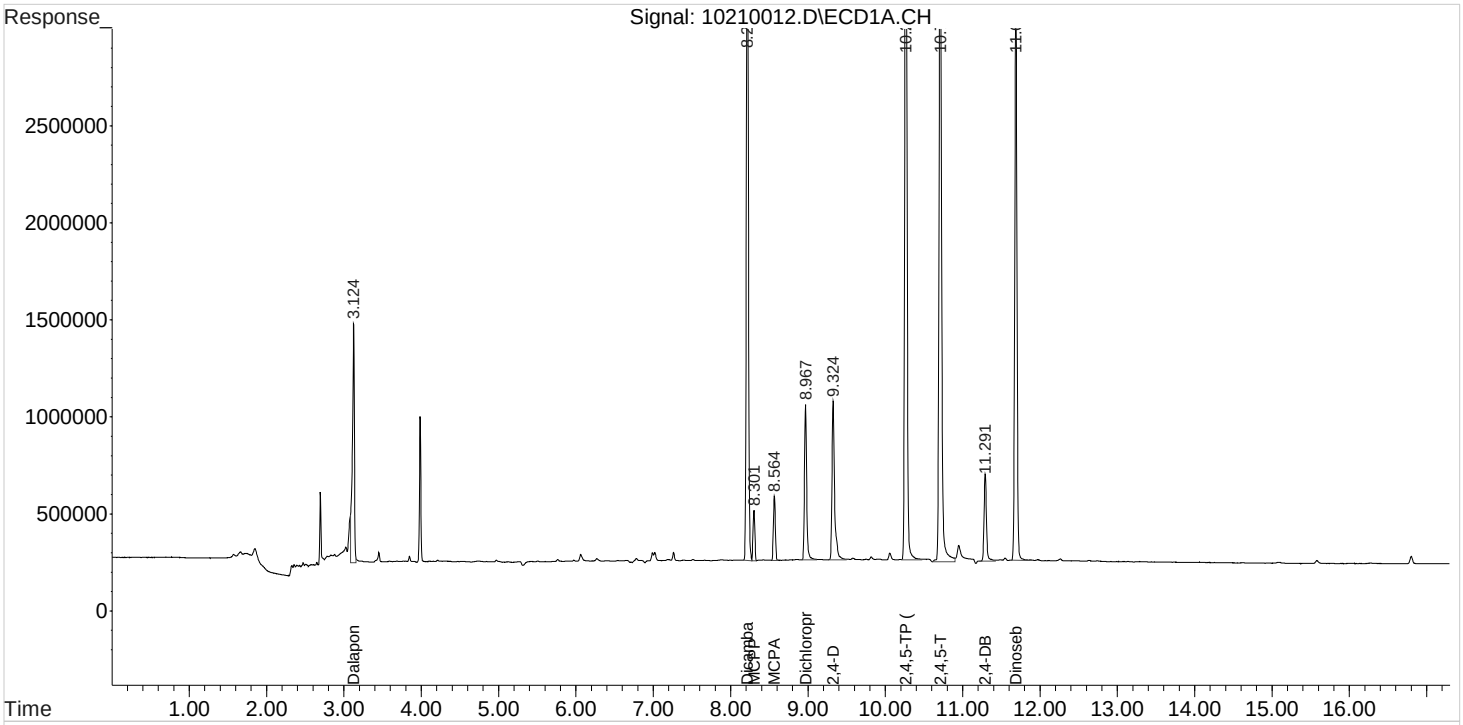
Quantitation Report (QT Reviewed)

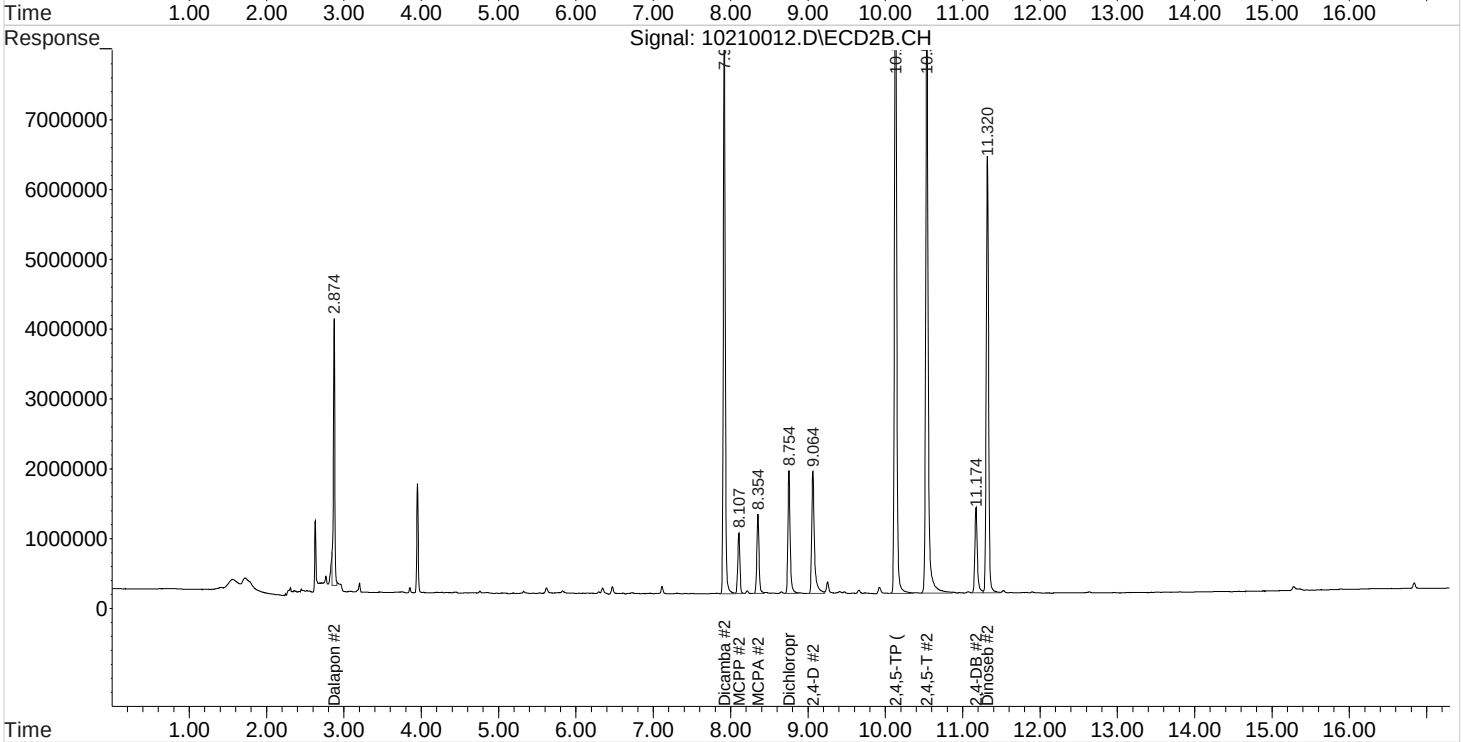
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:34:58 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





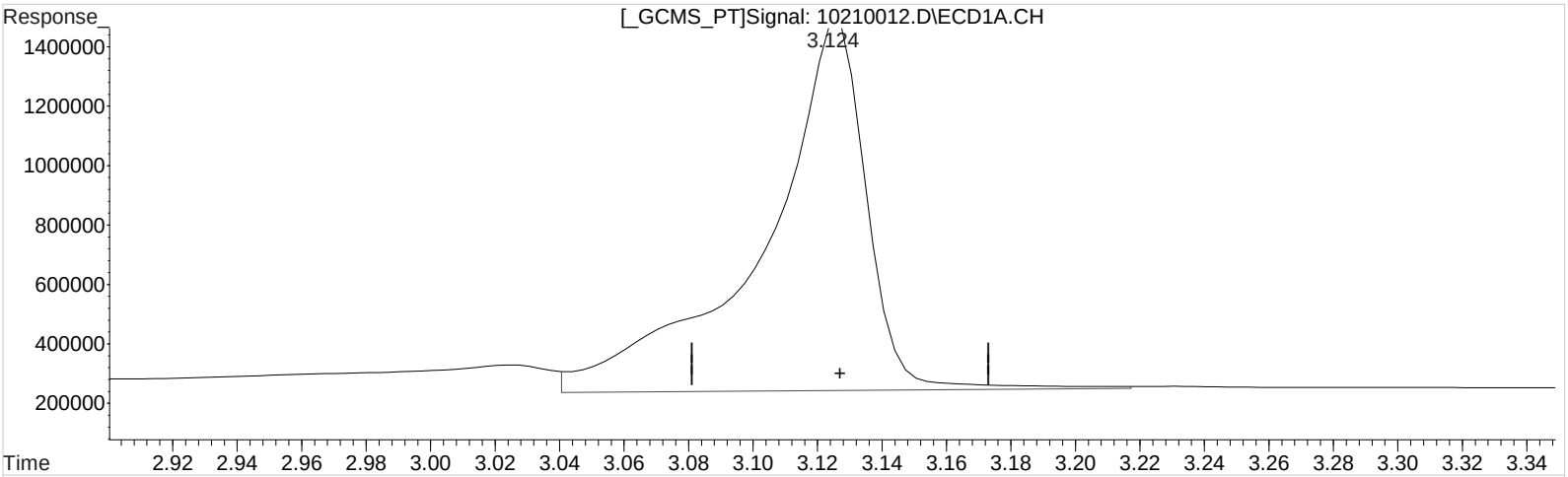
Quantitation Report (Qedit)

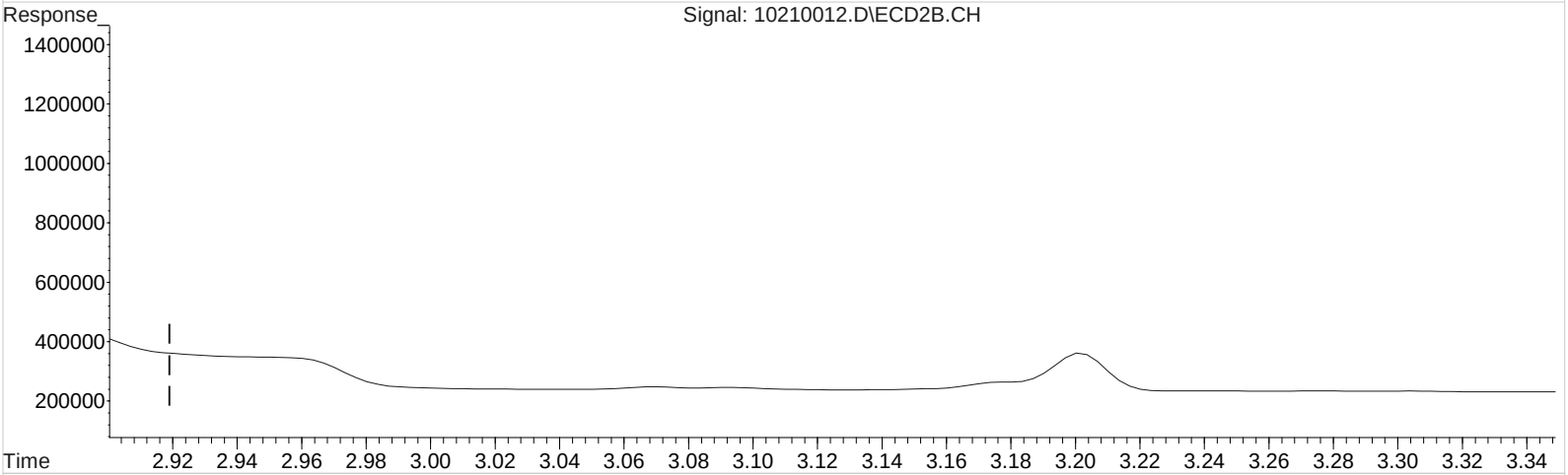
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:33:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.124min 114.147 ppb

response 2769027

(1) Dalapon #2 (m)

2.874min 131.747 ppb

response 6365052

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

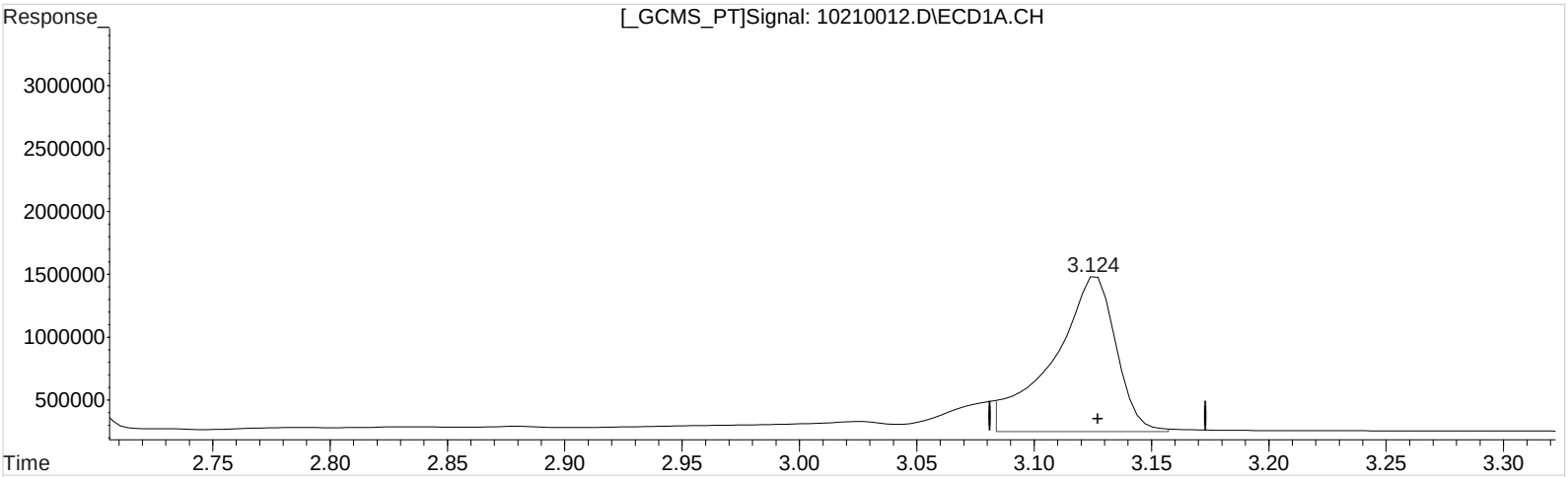
Quantitation Report (Qedit)

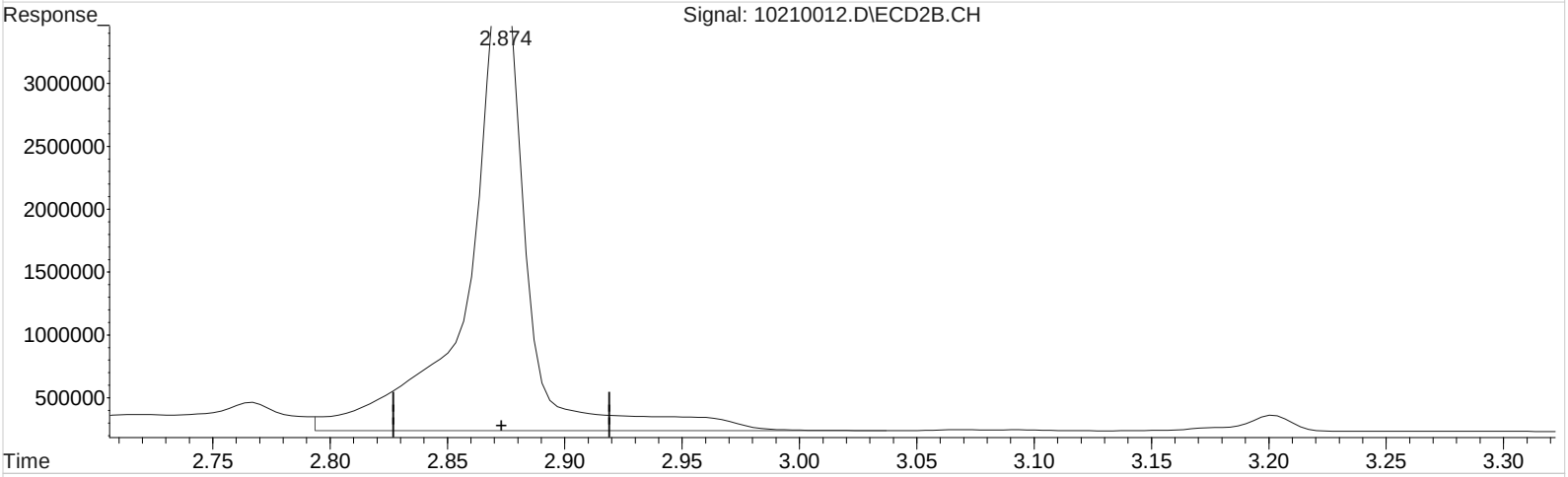
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:33:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.124min 93.788 ppb m

response 2275140

Manual Integration:

Before

10/21/20

(1) Dalapon #2 (m)

2.874min 131.747 ppb

response 6365052

(+) = Expected Retention Time

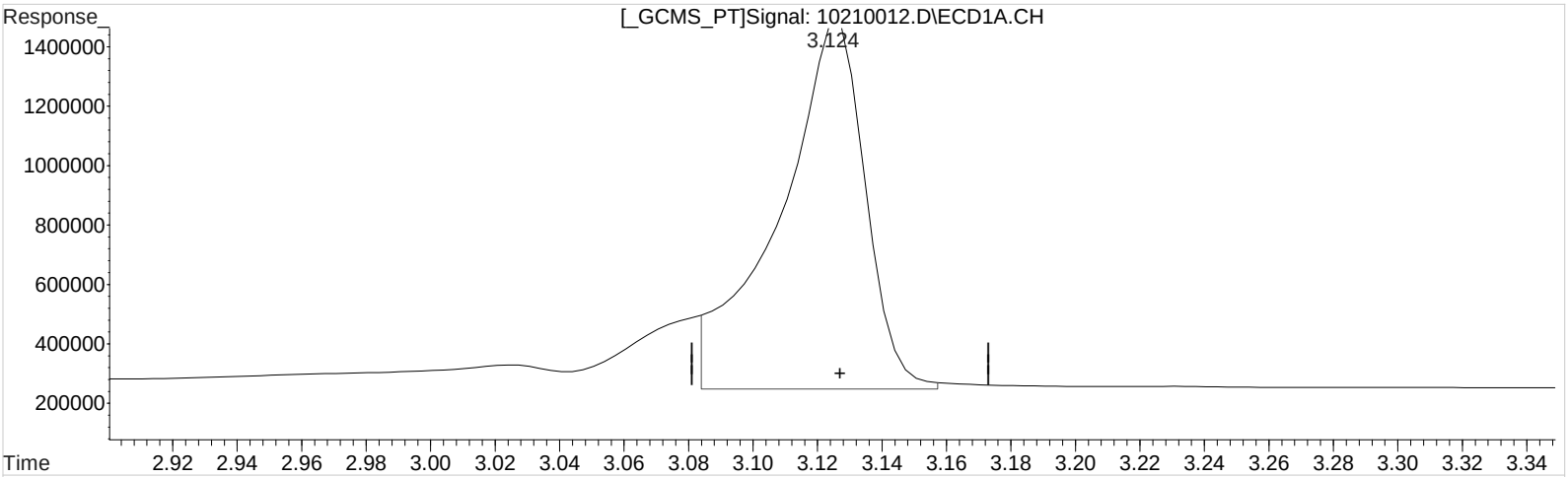
Quantitation Report (Qedit)

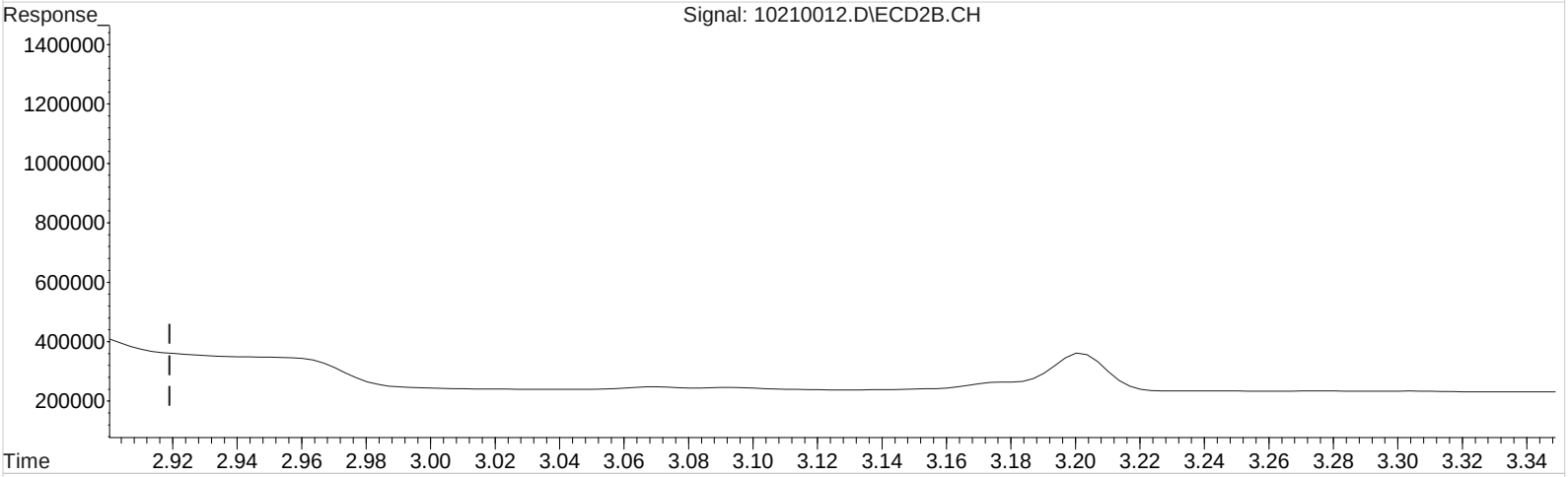
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:33:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.124min 93.788 ppb m

response 2275140

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.874min 131.747 ppb

response 6365052

(+) = Expected Retention Time

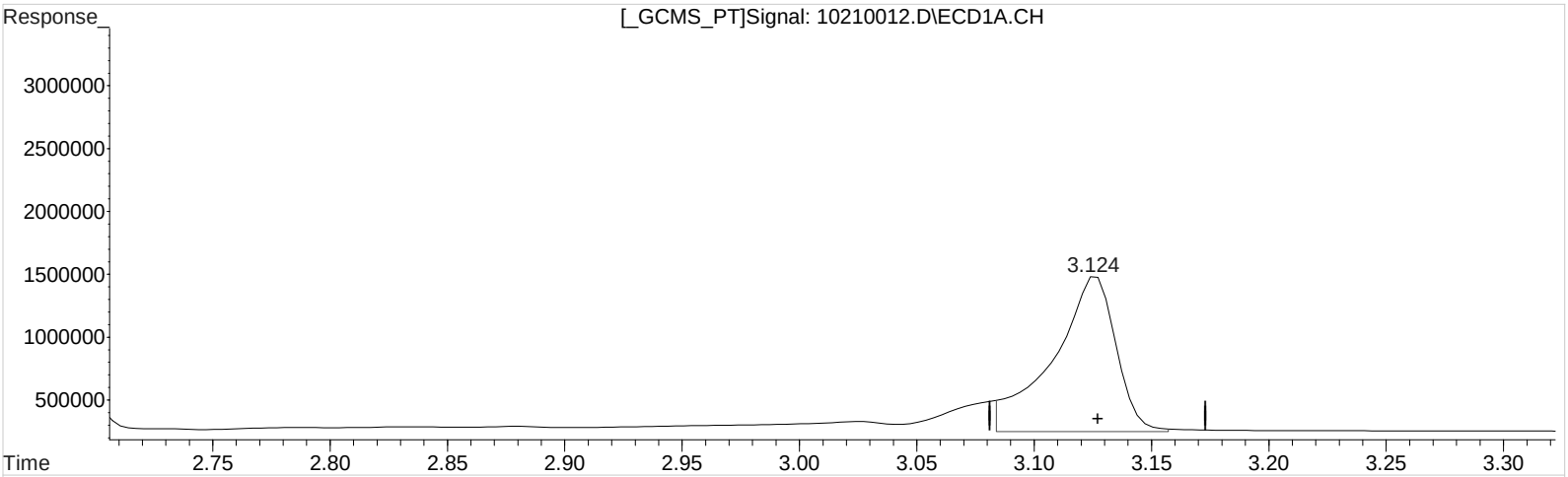
Quantitation Report (Qedit)

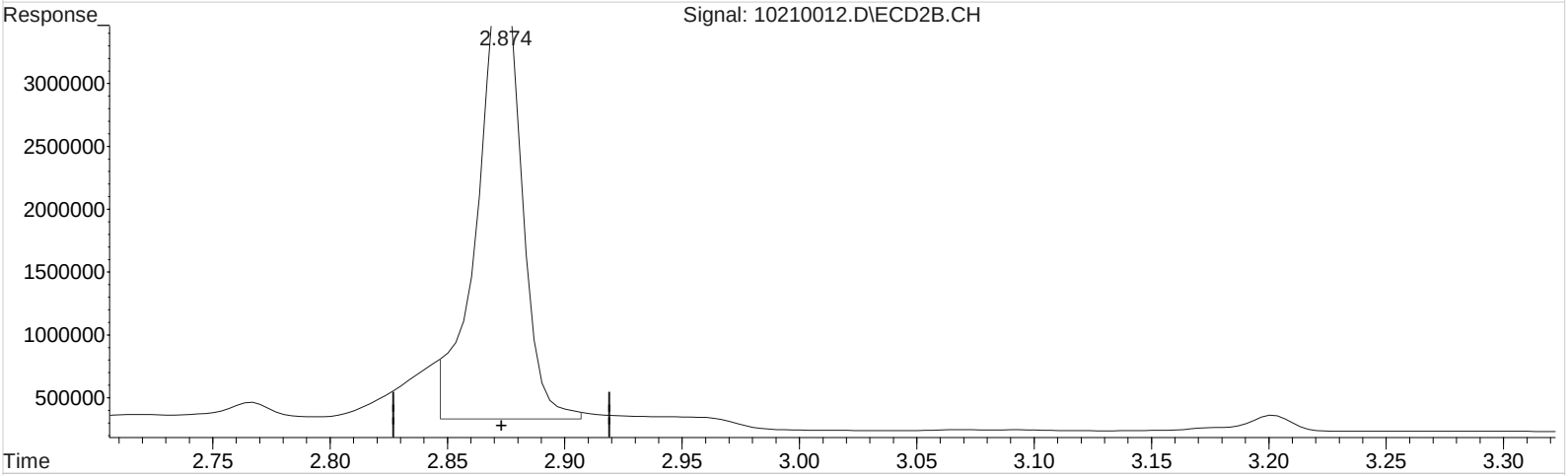
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:33:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(1) Dalapon (m)

3.124min 93.788 ppb m

response 2275140

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.874min 95.982 ppb m

response 4637166

(+) = Expected Retention Time

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 100	8151A-17	11300001	F:01:01		PRIMER
No	2	Vial 100	8151A-17	11300002	F:02:01		PRIMER
No	3	Vial 1	8151A-17	11300003	F:03:01		PENTA-2 41C 100C
No	4	Vial 2	8151A-17	11300004	F:04:01		IB
No	5	none	STANDBY	11300005	F:05:01		STANBY
No	6	Vial 3	8151A-17	11300006	F:06:01		KQ20107764-04MB
No	7	Vial 4	8151A-17	11300007	F:07:01		KQ20107764-03LCS
No	8	Vial 5	8151A-17	11300008	F:08:01		K2010413-001
No	9	Vial 6	8151A-17	11300009	F:09:01		K2010413-002
No	10	Vial 7	8151A-17	11300010	F:10:01		K2010413-003
No	11	Vial 8	8151A-17	11300011	F:11:01		K2010413-004
No	12	Vial 9	8151A-17	11300012	F:12:01		K2010413-005
No	13	Vial 10	8151A-17	11300013	F:13:01		K2010413-006
No	14	Vial 11	8151A-17	11300014	F:14:01		K2010413-007
No	15	Vial 12	8151A-17	11300015	F:15:01		K2010413-008
No	16	Vial 1	8151A-17	11300016	F:16:01		PENTA-2 41C 100C
No	17	Vial 2	8151A-17	11300017	F:17:01		IB
No	18	Vial 13	8151A-17	11300018	F:18:01		K2010413-009
No	19	Vial 14	8151A-17	11300019	F:19:01		K2010413-010
No	20	Vial 15	8151A-17	11300020	F:20:01		K2010413-011
No	21	Vial 16	8151A-17	11300021	F:21:01		K2010413-012
No	22	Vial 17	8151A-17	11300022	F:22:01		K2010413-013
No	23	Vial 18	8151A-17	11300023	F:23:01		K2010413-014
No	24	Vial 19	8151A-17	11300024	F:24:01		K2010413-015
No	25	Vial 1	8151A-17	11300025	F:25:01		PENTA-2 41C 100C
No	26	Vial 2	8151A-17	11300026	F:26:01		IB
No	27	Vial 20	8151A-17	11300027	F:27:01		K2010413-016
No	28	Vial 21	8151A-17	11300028	F:28:01		K2010413-017
No	29	Vial 22	8151A-17	11300029	F:29:01		K2010413-018
No	30	Vial 23	8151A-17	11300030	F:30:01		K2010413-019
No	31	Vial 24	8151A-17	11300031	F:31:01		K2010413-020
No	32	Vial 25	8151A-17	11300032	F:32:01		KQ20107764-01MS
No	33	Vial 26	8151A-17	11300033	F:33:01		KQ20107764-02DMS
No	34	Vial 27	8151A-17	11300034	F:34:01		KQ2017766-04MB
No	35	Vial 28	8151A-17	11300035	F:35:01		KQ2017766-03LCS
No	36	Vial 29	8151A-17	11300036	F:36:01		K2010407-001
No	37	Vial 1	8151A-17	11300037	F:37:01		PENTA-2 41C 100C
No	38	Vial 2	8151A-17	11300038	F:38:01		IB
No	39	Vial 30	8151A-17	11300039	F:39:01		K2010407-002
No	40	Vial 31	8151A-17	11300040	F:40:01		K2010407-003
No	41	Vial 32	8151A-17	11300041	F:41:01		K2010407-004
No	42	Vial 33	8151A-17	11300042	F:42:01		K2010407-005
No	43	Vial 34	8151A-17	11300043	F:43:01		K2010407-006
No	44	Vial 35	8151A-17	11300044	F:44:01		K2010407-007
No	45	Vial 36	8151A-17	11300045	F:45:01		K2010407-008
No	46	Vial 37	8151A-17	11300046	F:46:01		K2010407-009
No	47	Vial 38	8151A-17	11300047	F:47:01		K2010407-010
No	48	Vial 39	8151A-17	11300048	F:48:01		K2010407-011
No	49	Vial 1	8151A-17	11300049	F:49:01		PENTA-2 41C 100C
No	50	Vial 2	8151A-17	11300050	F:50:01		IB
No	51	Vial 40	8151A-17	11300051	F:51:01		K2010407-012
No	52	Vial 41	8151A-17	11300052	F:52:01		K2010407-013
No	53	Vial 42	8151A-17	11300053	F:53:01		K2010407-014
No	54	Vial 43	8151A-17	11300054	F:54:01		K2010407-015
No	55	Vial 44	8151A-17	11300055	F:55:01		K2010407-016
No	56	Vial 45	8151A-17	11300056	F:56:01		K2010407-017
No	57	Vial 46	8151A-17	11300057	F:57:01		K2010407-018
No	58	Vial 47	8151A-17	11300058	F:58:01		K2010407-019
No	59	Vial 48	8151A-17	11300059	F:59:01		K2010407-020
No	60	Vial 1	8151A-17	11300060	F:60:01		PENTA-2 41C 100C
No	61	Vial 2	8151A-17	11300061	F:61:01		IB
No	62	Vial 49	8151A-17	11300062	F:62:01		KQ2017766-01MS
No	63	Vial 50	8151A-17	11300063	F:63:01		KQ2017766-02DMS
No	64	Vial 1	8151A-17	11300064	F:64:01		PENTA-2 41C 100C
No	65	Vial 2	8151A-17	11300065	F:65:01		IB

Run #: 705301