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

November 24, 2020

Analytical Report for Service Request No: K2010070

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 03, 2020
For your reference, these analyses have been assigned our service request number **K2010070.**

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

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

ALS Environmental

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

Service Request: K2010070
Date Received: 11/03/2020

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:

Nineteen sediment samples were received for analysis at ALS Environmental on 11/03/2020. 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:

Method 8151A, 11/16/2020: The analysis of method Chlorinated Herbicides by EPA 8151A requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the lower of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for 2,4,5-TP and 2,4-D. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

Approved by _____ Date 11/24/2020

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

K2010070

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20201030-124905

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, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-045SC-B-00-02-201030	N	SE	10/30/2020	11:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
002	USMPDI-045SC-B-02-04-201030	N	SE	10/30/2020	11:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
003	USMPDI-045SC-B-04-06-201030	N	SE	10/30/2020	11:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
004	USMPDI-045SC-B-06-08-201030	N	SE	10/30/2020	11:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
005	USMPDI-045SC-B-08-10-201030	N	SE	10/30/2020	11:45	2	X				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
006	USMPDI-045SC-B-10-12-201030	N	SE	10/30/2020	11:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
007	USMPDI-045SC-B-12-14-201030	N	SE	10/30/2020	11:45	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 Smithwood	Print Name K Monroe	Print Name K Monroe	Print Name K Monroe	Print Name	Print Name
Company AnchorQEA	Company ALS	Company ALS	Company ALS	Company	Company
Date/Time 30 OCT 20 @ 1445	Date/Time 11/3/20 0940	Date/Time 11/3/20 1210	Date/Time 11/3/20 1210	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: 10/30/2020

Page 1 of 3

K2010070

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20201030-124905

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, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
007	USMPDI-045SC-B-12-14-201030	N	SE	10/30/2020	11:45	1	☐				
								Total Solids (ALS)	SM2540G	30	4°C
008	USMPDI-045SC-B-14-16-201030	N	SE	10/30/2020	11:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
009	USMPDI-045SC-B-16-17.4-201030	N	SE	10/30/2020	11:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
010	USMPDI-047SC-D-00-02-201030	N	SE	10/30/2020	8:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
011	USMPDI-047SC-D-02-04-201030	N	SE	10/30/2020	8:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
012	USMPDI-047SC-D-04-06-201030	N	SE	10/30/2020	8:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
013	USMPDI-047SC-D-06-08-201030	N	SE	10/30/2020	8:45	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 Woodward	Print Name: R Monroe	Print Name: R Monroe	Print Name: R Monroe	Print Name	Print Name
Company: Anchor QEA	Company: ALS	Company: ALS	Company: ALS	Company	Company
Date/Time: 300 Gals @ 1445	Date/Time: 11/3/20 +2 0940	Date/Time: 11/3/20 1210	Date/Time: 11/3/20 1210	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: 10/30/2020

K2010070

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20201030-124905

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, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
014	USMPDI-047SC-D-08-10-201030	N	SE	10/30/2020	8:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
015	USMPDI-047SC-D-10-12-201030	N	SE	10/30/2020	8:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
016	USMPDI-047SC-D-12-14-201030	N	SE	10/30/2020	8:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
017	USMPDI-047SC-D-14-16-201030	N	SE	10/30/2020	8:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
018	USMPDI-047SC-D-16-17.7-201030	N	SE	10/30/2020	8:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
019	USMPDI-1047SC-D-12-14-201030	FD	SE	10/30/2020		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	Print Name	Print Name L Monroe	Print Name	Print Name
Company Anchor QEA	Company	Company	Company ALS	Company	Company
Date/Time 30OCT20 @1445	Date/Time	Date/Time	Date/Time 11/4/20 1210	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: 10/30/2020

PM MH

Cooler Receipt and Preservation Form

Client ~~Apex~~ Anchor jr Service Request K20 100070

Received: 11/3/20 Opened: 11/3/20 By: Km Unloaded: 11/3/20 By: K

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

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

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number (NA)	Filed
4.0	—	IR01	AGS-2020 1030-124905	—	—		

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~~ K
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
14. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

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

Notes, Discrepancies, Resolutions: ~~Did not rec'd Sample USMPb1-0450-B-14-201030~~ Km

SHORT HOLD TIME

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:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20
Sample Matrix:	Sediment	**Date Received:**	11/3/20
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-045SC-B-00-02-201030	K2010070-001	**50.2**	-	-	1	11/10/20 16:45	*
USMPDI-045SC-B-02-04-201030	K2010070-002	**70.4**	-	-	1	11/10/20 16:45	*
USMPDI-045SC-B-04-06-201030	K2010070-003	**85.5**	-	-	1	11/10/20 16:45	*
USMPDI-045SC-B-06-08-201030	K2010070-004	**83.3**	-	-	1	11/10/20 16:45	*
USMPDI-045SC-B-08-10-201030	K2010070-005	**81.2**	-	-	1	11/10/20 16:45	*
USMPDI-045SC-B-10-12-201030	K2010070-006	**88.4**	-	-	1	11/10/20 16:45	*
USMPDI-045SC-B-12-14-201030	K2010070-007	**81.1**	-	-	1	11/10/20 16:45	*
USMPDI-045SC-B-14-16-201030	K2010070-008	**89.4**	-	-	1	11/10/20 16:45	*
USMPDI-045SC-B-16-17.4-201030	K2010070-009	**78.3**	-	-	1	11/10/20 16:45	*
USMPDI-047SC-D-00-02-201030	K2010070-010	**50.3**	-	-	1	11/10/20 16:45	*
USMPDI-047SC-D-02-04-201030	K2010070-011	**58.4**	-	-	1	11/10/20 16:45	*
USMPDI-047SC-D-04-06-201030	K2010070-012	**84.6**	-	-	1	11/10/20 16:45	*
USMPDI-047SC-D-06-08-201030	K2010070-013	**74.3**	-	-	1	11/10/20 16:45	*
USMPDI-047SC-D-08-10-201030	K2010070-014	**82.9**	-	-	1	11/10/20 16:45	*
USMPDI-047SC-D-10-12-201030	K2010070-015	**82.6**	-	-	1	11/10/20 16:45	*
USMPDI-047SC-D-12-14-201030	K2010070-016	**87.5**	-	-	1	11/10/20 16:45	*
USMPDI-047SC-D-14-16-201030	K2010070-017	**79.9**	-	-	1	11/10/20 16:45	*
USMPDI-047SC-D-16-17.7-201030	K2010070-018	**76.4**	-	-	1	11/10/20 16:45	*
USMPDI-1047SC-D-12-14-201030	K2010070-019	**86.7**	-	-	1	11/10/20 16:45	*
Method Blank	K2010070-MB	ND U	-	-	1	11/10/20 16:45	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20
Sample Matrix:	Sediment	**Date Received:**	11/03/20
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-045SC-B-08-10-201030	K2010070-005DUP	-	-	81.2	81.5	81.4	<1	20	11/10/20
USMPDI-1047SC-D-12-14-201030	K2010070-019DUP	-	-	86.7	86.6	86.7	<1	20	11/10/20

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:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 11:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-045SC-B-00-02-201030	**Units:**	ug/Kg
Lab Code:	K2010070-001	**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	99	4.8	1	11/16/20 00:44	11/4/20	
2,4-D	ND U	99	16	1	11/16/20 00:44	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	94	26 - 127	11/16/20 00:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 11:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-045SC-B-02-04-201030	**Units:**	ug/Kg
Lab Code:	K2010070-002	**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	71	3.4	1	11/17/20 01:07	11/4/20	
2,4-D	ND U	71	11	1	11/17/20 01:07	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	86	26 - 127	11/17/20 01:07	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 11:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-045SC-B-04-06-201030	**Units:**	ug/Kg
Lab Code:	K2010070-003	**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	2.9	1	11/17/20 01:30	11/4/20	
2,4-D	ND U	58	9.1	1	11/17/20 01:30	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	76	26 - 127	11/17/20 01:30	

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 11:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-045SC-B-06-08-201030	**Units:**	ug/Kg
Lab Code:	K2010070-004	**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	60	2.9	1	11/17/20 01:53	11/4/20	
2,4-D	ND U	60	9.3	1	11/17/20 01:53	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	84	26 - 127	11/17/20 01:53	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 11:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-045SC-B-08-10-201030	**Units:**	ug/Kg
Lab Code:	K2010070-005	**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	61	3.0	1	11/17/20 02:15	11/4/20	
2,4-D	ND U	61	9.5	1	11/17/20 02:15	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	84	26 - 127	11/17/20 02:15	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 11:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-045SC-B-10-12-201030	**Units:**	ug/Kg
Lab Code:	K2010070-006	**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	56	2.8	1	11/17/20 02:38	11/4/20	
2,4-D	ND U	56	8.8	1	11/17/20 02:38	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	89	26 - 127	11/17/20 02:38	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 11:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-045SC-B-12-14-201030	**Units:**	ug/Kg
Lab Code:	K2010070-007	**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	62	3.0	1	11/17/20 03:01	11/4/20	
2,4-D	ND U	62	9.5	1	11/17/20 03:01	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	85	26 - 127	11/17/20 03:01	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 11:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-045SC-B-14-16-201030	**Units:**	ug/Kg
Lab Code:	K2010070-008	**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	56	2.7	1	11/17/20 03:24	11/4/20	
2,4-D	ND U	56	8.7	1	11/17/20 03:24	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	86	26 - 127	11/17/20 03:24	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 11:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-045SC-B-16-17.4-201030	**Units:**	ug/Kg
Lab Code:	K2010070-009	**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	64	3.1	1	11/17/20 04:33	11/4/20	
2,4-D	ND U	64	9.9	1	11/17/20 04:33	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	87	26 - 127	11/17/20 04:33	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 08:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-047SC-D-00-02-201030	**Units:**	ug/Kg
Lab Code:	K2010070-010	**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	99	4.8	1	11/17/20 04:56	11/4/20	
2,4-D	ND U	99	16	1	11/17/20 04:56	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	64	26 - 127	11/17/20 04:56	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 08:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-047SC-D-02-04-201030	**Units:**	ug/Kg
Lab Code:	K2010070-011	**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	85	4.1	1	11/17/20 05:18	11/4/20	
2,4-D	ND U	85	14	1	11/17/20 05:18	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	97	26 - 127	11/17/20 05:18	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 08:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-047SC-D-04-06-201030	**Units:**	ug/Kg
Lab Code:	K2010070-012	**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	59	2.9	1	11/17/20 05:41	11/4/20	
2,4-D	ND U	59	9.1	1	11/17/20 05:41	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	78	26 - 127	11/17/20 05:41	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 08:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-047SC-D-06-08-201030	**Units:**	ug/Kg
Lab Code:	K2010070-013	**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	67	3.3	1	11/17/20 06:04	11/4/20	
2,4-D	ND U	67	11	1	11/17/20 06:04	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	84	26 - 127	11/17/20 06:04	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 08:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-047SC-D-08-10-201030	**Units:**	ug/Kg
Lab Code:	K2010070-014	**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	60	2.9	1	11/17/20 06:27	11/4/20	
2,4-D	ND U	60	9.3	1	11/17/20 06:27	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	81	26 - 127	11/17/20 06:27	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 08:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-047SC-D-10-12-201030	**Units:**	ug/Kg
Lab Code:	K2010070-015	**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	60	3.0	1	11/17/20 06:50	11/4/20	
2,4-D	ND U	60	9.4	1	11/17/20 06:50	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	88	26 - 127	11/17/20 06:50	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 08:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-047SC-D-12-14-201030	**Units:**	ug/Kg
Lab Code:	K2010070-016	**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	57	2.8	1	11/17/20 07:59	11/4/20	
2,4-D	ND U	57	8.8	1	11/17/20 07:59	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	89	26 - 127	11/17/20 07:59	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 08:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-047SC-D-14-16-201030	**Units:**	ug/Kg
Lab Code:	K2010070-017	**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	62	3.0	1	11/17/20 08:22	11/4/20	
2,4-D	ND U	62	9.7	1	11/17/20 08:22	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	91	26 - 127	11/17/20 08:22	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20 08:45
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-047SC-D-16-17.7-201030	**Units:**	ug/Kg
Lab Code:	K2010070-018	**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	65	3.2	1	11/17/20 08:44	11/4/20	
2,4-D	ND U	65	11	1	11/17/20 08:44	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	85	26 - 127	11/17/20 08:44	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20
Sample Matrix:	Sediment	**Date Received:**	11/03/20 12:10
Sample Name:	USMPDI-1047SC-D-12-14-201030	**Units:**	ug/Kg
Lab Code:	K2010070-019	**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	57	2.8	1	11/17/20 09:07	11/4/20	
2,4-D	ND U	57	8.9	1	11/17/20 09:07	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	88	26 - 127	11/17/20 09:07	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KQ2017248-04	**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	11/16/20 23:59	11/4/20	
2,4-D	ND U	50	7.7	1	11/16/20 23:59	11/4/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	82	26 - 127	11/16/20 23:59	

Confirmation Results

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

Service Request: K2010070
Date Collected: 10/30/20 11:45
Date Received: 11/3/20

Sample Name: USMPDI-045SC-B-08-10-201030
Lab Code: KQ2017248-01

Units: ug/Kg
Basis: Dry
Percent Solids: 81.2

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	3.0	183	218	17		1	11/17/20 09:30
2,4-D	9.5	173	200	14		1	11/17/20 09:30

Confirmation Results

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

Service Request: K2010070
Date Collected: 10/30/20 11:45
Date Received: 11/3/20

Sample Name: USMPDI-045SC-B-08-10-201030
Lab Code: KQ2017248-02

Units: ug/Kg
Basis: Dry
Percent Solids: 81.2

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	3.0	191	228	18		1	11/17/20 09:53
2,4-D	9.5	183	208	13		1	11/17/20 09:53

Confirmation Results

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

Service Request: K2010070
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2017248-03

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	151	177	16		1	11/16/20 00:21
2,4-D	7.7	149	164	10		1	11/16/20 00:21

Client: Anchor QEA, LLC **Service Request:** K2010070

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-045SC-B-00-02-201030	K2010070-001	94
USMPDI-045SC-B-02-04-201030	K2010070-002	86
USMPDI-045SC-B-04-06-201030	K2010070-003	76
USMPDI-045SC-B-06-08-201030	K2010070-004	84
USMPDI-045SC-B-08-10-201030	K2010070-005	84
USMPDI-045SC-B-10-12-201030	K2010070-006	89
USMPDI-045SC-B-12-14-201030	K2010070-007	85
USMPDI-045SC-B-14-16-201030	K2010070-008	86
USMPDI-045SC-B-16-17.4-201030	K2010070-009	87
USMPDI-047SC-D-00-02-201030	K2010070-010	64
USMPDI-047SC-D-02-04-201030	K2010070-011	97
USMPDI-047SC-D-04-06-201030	K2010070-012	78
USMPDI-047SC-D-06-08-201030	K2010070-013	84
USMPDI-047SC-D-08-10-201030	K2010070-014	81
USMPDI-047SC-D-10-12-201030	K2010070-015	88
USMPDI-047SC-D-12-14-201030	K2010070-016	89
USMPDI-047SC-D-14-16-201030	K2010070-017	91
USMPDI-047SC-D-16-17.7-201030	K2010070-018	85
USMPDI-1047SC-D-12-14-201030	K2010070-019	88
Method Blank	KQ2017248-04	82
Lab Control Sample	KQ2017248-03	100
USMPDI-045SC-B-08-10-201030	KQ2017248-01	93
USMPDI-045SC-B-08-10-201030	KQ2017248-02	92

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Collected:**	10/30/20
Sample Matrix:	Sediment	**Date Received:**	11/03/20
		Date Analyzed:	11/17/20
		Date Extracted:	11/4/20

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name:	USMPDI-045SC-B-08-10-201030	**Units:**	ug/Kg
Lab Code:	K2010070-005	**Basis:**	Dry
Analysis Method:	8151A		
Prep Method:	Method		

		Matrix Spike			**Duplicate Matrix Spike**					
		KQ2017248-01			KQ2017248-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-TP	ND U	183	205	89	191	205	93	34-129	4	40
2,4-D	ND U	173	205	84	183	205	89	35-129	6	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:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/16/20
Sample Matrix:	Sediment	**Date Extracted:**	11/04/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Units:**	ug/Kg
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	703644

Lab Control Sample
KQ2017248-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP	151	167	91	46-125
2,4-D	149	167	89	46-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/16/20 23:59
Sample Matrix:	Sediment	**Date Extracted:**	11/04/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	K-GC-24
Lab Code:	KQ2017248-04	**File ID:**	J:\gc24\data\111620\11160018.D\
Analysis Method:	8151A	**Analysis Lot:**	703644
Prep Method:	Method	**Extraction Lot:**	369148

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2017248-03	J:\gc24\data\111620\11160019.D\	11/16/20 00:21
USMPDI-045SC-B-00-02-201030	K2010070-001	J:\gc24\data\111620\11160020.D\	11/16/20 00:44
USMPDI-045SC-B-02-04-201030	K2010070-002	J:\gc24\data\111620\11160021.D\	11/17/20 01:07
USMPDI-045SC-B-04-06-201030	K2010070-003	J:\gc24\data\111620\11160022.D\	11/17/20 01:30
USMPDI-045SC-B-06-08-201030	K2010070-004	J:\gc24\data\111620\11160023.D\	11/17/20 01:53
USMPDI-045SC-B-08-10-201030	K2010070-005	J:\gc24\data\111620\11160024.D\	11/17/20 02:15
USMPDI-045SC-B-10-12-201030	K2010070-006	J:\gc24\data\111620\11160025.D\	11/17/20 02:38
USMPDI-045SC-B-12-14-201030	K2010070-007	J:\gc24\data\111620\11160026.D\	11/17/20 03:01
USMPDI-045SC-B-14-16-201030	K2010070-008	J:\gc24\data\111620\11160027.D\	11/17/20 03:24
USMPDI-045SC-B-16-17.4-201030	K2010070-009	J:\gc24\data\111620\11160030.D\	11/17/20 04:33
USMPDI-047SC-D-00-02-201030	K2010070-010	J:\gc24\data\111620\11160031.D\	11/17/20 04:56
USMPDI-047SC-D-02-04-201030	K2010070-011	J:\gc24\data\111620\11160032.D\	11/17/20 05:18
USMPDI-047SC-D-04-06-201030	K2010070-012	J:\gc24\data\111620\11160033.D\	11/17/20 05:41
USMPDI-047SC-D-06-08-201030	K2010070-013	J:\gc24\data\111620\11160034.D\	11/17/20 06:04
USMPDI-047SC-D-08-10-201030	K2010070-014	J:\gc24\data\111620\11160035.D\	11/17/20 06:27
USMPDI-047SC-D-10-12-201030	K2010070-015	J:\gc24\data\111620\11160036.D\	11/17/20 06:50
USMPDI-047SC-D-12-14-201030	K2010070-016	J:\gc24\data\111620\11160039.D\	11/17/20 07:59
USMPDI-047SC-D-14-16-201030	K2010070-017	J:\gc24\data\111620\11160040.D\	11/17/20 08:22
USMPDI-047SC-D-16-17.7-201030	K2010070-018	J:\gc24\data\111620\11160041.D\	11/17/20 08:44
USMPDI-1047SC-D-12-14-201030	K2010070-019	J:\gc24\data\111620\11160042.D\	11/17/20 09:07
USMPDI-045SC-B-08-10-201030MS	KQ2017248-01	J:\gc24\data\111620\11160043.D\	11/17/20 09:30
USMPDI-045SC-B-08-10-201030DMS	KQ2017248-02	J:\gc24\data\111620\11160044.D\	11/17/20 09:53

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/16/20 00:21
Sample Matrix:	Sediment	**Date Extracted:**	11/04/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-24
Lab Code:	KQ2017248-03	**File ID:**	J:\gc24\data\111620\11160019.D\
Analysis Method:	8151A	**Analysis Lot:**	703644
Prep Method:	Method	**Extraction Lot:**	369148

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
USMPDI-045SC-B-00-02-201030	K2010070-001	J:\gc24\data\111620\11160020.D\	11/16/20 00:44
Method Blank	KQ2017248-04	J:\gc24\data\111620\11160018.D\	11/16/20 23:59
USMPDI-045SC-B-02-04-201030	K2010070-002	J:\gc24\data\111620\11160021.D\	11/17/20 01:07
USMPDI-045SC-B-04-06-201030	K2010070-003	J:\gc24\data\111620\11160022.D\	11/17/20 01:30
USMPDI-045SC-B-06-08-201030	K2010070-004	J:\gc24\data\111620\11160023.D\	11/17/20 01:53
USMPDI-045SC-B-08-10-201030	K2010070-005	J:\gc24\data\111620\11160024.D\	11/17/20 02:15
USMPDI-045SC-B-10-12-201030	K2010070-006	J:\gc24\data\111620\11160025.D\	11/17/20 02:38
USMPDI-045SC-B-12-14-201030	K2010070-007	J:\gc24\data\111620\11160026.D\	11/17/20 03:01
USMPDI-045SC-B-14-16-201030	K2010070-008	J:\gc24\data\111620\11160027.D\	11/17/20 03:24
USMPDI-045SC-B-16-17.4-201030	K2010070-009	J:\gc24\data\111620\11160030.D\	11/17/20 04:33
USMPDI-047SC-D-00-02-201030	K2010070-010	J:\gc24\data\111620\11160031.D\	11/17/20 04:56
USMPDI-047SC-D-02-04-201030	K2010070-011	J:\gc24\data\111620\11160032.D\	11/17/20 05:18
USMPDI-047SC-D-04-06-201030	K2010070-012	J:\gc24\data\111620\11160033.D\	11/17/20 05:41
USMPDI-047SC-D-06-08-201030	K2010070-013	J:\gc24\data\111620\11160034.D\	11/17/20 06:04
USMPDI-047SC-D-08-10-201030	K2010070-014	J:\gc24\data\111620\11160035.D\	11/17/20 06:27
USMPDI-047SC-D-10-12-201030	K2010070-015	J:\gc24\data\111620\11160036.D\	11/17/20 06:50
USMPDI-047SC-D-12-14-201030	K2010070-016	J:\gc24\data\111620\11160039.D\	11/17/20 07:59
USMPDI-047SC-D-14-16-201030	K2010070-017	J:\gc24\data\111620\11160040.D\	11/17/20 08:22
USMPDI-047SC-D-16-17.7-201030	K2010070-018	J:\gc24\data\111620\11160041.D\	11/17/20 08:44
USMPDI-1047SC-D-12-14-201030	K2010070-019	J:\gc24\data\111620\11160042.D\	11/17/20 09:07
USMPDI-045SC-B-08-10-201030MS	KQ2017248-01	J:\gc24\data\111620\11160043.D\	11/17/20 09:30
USMPDI-045SC-B-08-10-201030DMS	KQ2017248-02	J:\gc24\data\111620\11160044.D\	11/17/20 09:53

Client: Anchor QEA, LLC **Service Request:** K2010070
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: K2010070
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:** K2010070
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: K2010070
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:** K2010070
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:** K2010070
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:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/16/20 18:00

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\111620\11160003.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	703644
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	99.8	9.368E4	9.826E4	4.9	NA	±20	Average RF
2,4-D	94.0	99.4	2.124E4	2.246E4	5.7	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/16/20 18:00

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\111620\11160003.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	703644
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	120	2.03E5	2.564E5	26.3*	NA	±20	Average RF
2,4-D	94.0	111	5.12E4	6.024E4	17.7	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/16/20 23:13

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\111620\11160016.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	703644
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	102	9.368E4	1.006E5	7.4	NA	±20	Average RF
2,4-D	94.0	104	2.124E4	2.347E4	10.5	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/16/20 23:13

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\111620\11160016.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	703644
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	121	2.03E5	2.58E5	27.1*	NA	±20	Average RF
2,4-D	94.0	111	5.12E4	6.053E4	18.2	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/17/20 03:47

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\111620\11160028.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	703644
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	106	9.368E4	1.042E5	11.2	NA	±20	Average RF
2,4-D	94.0	102	2.124E4	2.303E4	8.4	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/17/20 03:47

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\111620\11160028.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	703644
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	125	2.03E5	2.66E5	31.0*	NA	±20	Average RF
2,4-D	94.0	115	5.12E4	6.273E4	22.5*	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/17/20 07:13

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\111620\11160037.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	703644
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	104	9.368E4	1.024E5	9.3	NA	±20	Average RF
2,4-D	94.0	102	2.124E4	2.294E4	8.0	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/17/20 07:13

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\111620\11160037.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	703644
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	124	2.03E5	2.644E5	30.3*	NA	±20	Average RF
2,4-D	94.0	116	5.12E4	6.304E4	23.1*	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/17/20 10:16

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\111620\11160045.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	703644
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	105	9.368E4	1.035E5	10.5	NA	±20	Average RF
2,4-D	94.0	103	2.124E4	2.332E4	9.8	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010070
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	11/17/20 10:16

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\111620\11160045.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	703644
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	125	2.03E5	2.66E5	31.0*	NA	±20	Average RF
2,4-D	94.0	116	5.12E4	6.292E4	22.9*	NA	±20	Average RF

Client: Anchor QEA, LLC **Service Request:**K2010070
Project: GascoSiltronic: US Moorings

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**703644
Instrument ID:K-GC-24

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\gc24\data\111620\11160019.D\	Lab Control Sample	KQ2017248-03	11/16/2020	00:21:00	
J:\gc24\data\111620\11160020.D\	USMPDI-045SC-B-00-02-201030	K2010070-001	11/16/2020	00:44:00	
J:\gc24\data\111620\11160003.D\	Continuing Calibration Verification	KQ2018353-01	11/16/2020	18:00:00	
J:\gc24\data\111620\11160004.D\	Continuing Calibration Blank	KQ2018353-02	11/16/2020	18:23:00	
J:\gc24\data\111620\11160006.D\	ZZZZZZZ	ZZZZZZZ	11/16/2020	19:24:00	
J:\gc24\data\111620\11160007.D\	ZZZZZZZ	ZZZZZZZ	11/16/2020	19:47:00	
J:\gc24\data\111620\11160008.D\	ZZZZZZZ	ZZZZZZZ	11/16/2020	20:10:00	
J:\gc24\data\111620\11160009.D\	ZZZZZZZ	ZZZZZZZ	11/16/2020	20:33:00	
J:\gc24\data\111620\11160010.D\	ZZZZZZZ	ZZZZZZZ	11/16/2020	20:56:00	
J:\gc24\data\111620\11160011.D\	ZZZZZZZ	ZZZZZZZ	11/16/2020	21:18:00	
J:\gc24\data\111620\11160012.D\	ZZZZZZZ	ZZZZZZZ	11/16/2020	21:41:00	
J:\gc24\data\111620\11160013.D\	ZZZZZZZ	ZZZZZZZ	11/16/2020	22:04:00	
J:\gc24\data\111620\11160014.D\	ZZZZZZZ	ZZZZZZZ	11/16/2020	22:27:00	
J:\gc24\data\111620\11160015.D\	ZZZZZZZ	ZZZZZZZ	11/16/2020	22:50:00	
J:\gc24\data\111620\11160016.D\	Continuing Calibration Verification	KQ2018353-03	11/16/2020	23:13:00	
J:\gc24\data\111620\11160017.D\	Continuing Calibration Blank	KQ2018353-04	11/16/2020	23:36:00	
J:\gc24\data\111620\11160018.D\	Method Blank	KQ2017248-04	11/16/2020	23:59:00	
J:\gc24\data\111620\11160021.D\	USMPDI-045SC-B-02-04-201030	K2010070-002	11/17/2020	01:07:00	
J:\gc24\data\111620\11160022.D\	USMPDI-045SC-B-04-06-201030	K2010070-003	11/17/2020	01:30:00	
J:\gc24\data\111620\11160023.D\	USMPDI-045SC-B-06-08-201030	K2010070-004	11/17/2020	01:53:00	
J:\gc24\data\111620\11160024.D\	USMPDI-045SC-B-08-10-201030	K2010070-005	11/17/2020	02:15:00	
J:\gc24\data\111620\11160025.D\	USMPDI-045SC-B-10-12-201030	K2010070-006	11/17/2020	02:38:00	
J:\gc24\data\111620\11160026.D\	USMPDI-045SC-B-12-14-201030	K2010070-007	11/17/2020	03:01:00	
J:\gc24\data\111620\11160027.D\	USMPDI-045SC-B-14-16-201030	K2010070-008	11/17/2020	03:24:00	
J:\gc24\data\111620\11160028.D\	Continuing Calibration Verification	KQ2018353-05	11/17/2020	03:47:00	
J:\gc24\data\111620\11160029.D\	Continuing Calibration Blank	KQ2018353-06	11/17/2020	04:10:00	
J:\gc24\data\111620\11160030.D\	USMPDI-045SC-B-16-17.4-201030	K2010070-009	11/17/2020	04:33:00	
J:\gc24\data\111620\11160031.D\	USMPDI-047SC-D-00-02-201030	K2010070-010	11/17/2020	04:56:00	
J:\gc24\data\111620\11160032.D\	USMPDI-047SC-D-02-04-201030	K2010070-011	11/17/2020	05:18:00	
J:\gc24\data\111620\11160033.D\	USMPDI-047SC-D-04-06-201030	K2010070-012	11/17/2020	05:41:00	
J:\gc24\data\111620\11160034.D\	USMPDI-047SC-D-06-08-201030	K2010070-013	11/17/2020	06:04:00	
J:\gc24\data\111620\11160035.D\	USMPDI-047SC-D-08-10-201030	K2010070-014	11/17/2020	06:27:00	
J:\gc24\data\111620\11160036.D\	USMPDI-047SC-D-10-12-201030	K2010070-015	11/17/2020	06:50:00	
J:\gc24\data\111620\11160037.D\	Continuing Calibration Verification	KQ2018353-07	11/17/2020	07:13:00	
J:\gc24\data\111620\11160038.D\	Continuing Calibration Blank	KQ2018353-08	11/17/2020	07:36:00	
J:\gc24\data\111620\11160039.D\	USMPDI-047SC-D-12-14-201030	K2010070-016	11/17/2020	07:59:00	
J:\gc24\data\111620\11160040.D\	USMPDI-047SC-D-14-16-201030	K2010070-017	11/17/2020	08:22:00	
J:\gc24\data\111620\11160041.D\	USMPDI-047SC-D-16-17.7-201030	K2010070-018	11/17/2020	08:44:00	
J:\gc24\data\111620\11160042.D\	USMPDI-1047SC-D-12-14-201030	K2010070-019	11/17/2020	09:07:00	
J:\gc24\data\111620\11160043.D\	USMPDI-045SC-B-08-10-201030 MS	KQ2017248-01	11/17/2020	09:30:00	
J:\gc24\data\111620\11160044.D\	USMPDI-045SC-B-08-10-201030 DMS	KQ2017248-02	11/17/2020	09:53:00	
J:\gc24\data\111620\11160045.D\	Continuing Calibration Verification	KQ2018353-09	11/17/2020	10:16:00	
J:\gc24\data\111620\11160046.D\	Continuing Calibration Blank	KQ2018353-10	11/17/2020	10:39:00	

Prep Summary Report

Client: Anchor QEA, LLC **Service Request:**K2010070
Project: GascoSiltronic: US Moorings
Sample Matrix: Sediment

Chlorinated Herbicides by GC

Prep Method: Method **Extraction Lot:** 369148
Analytical Method: 8151A **Extraction Date:** 11/04/20 13:00

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-045SC-B-00-02-201030	K2010070-001	10/30/20	11/3/20	30.196 g	50 mL	50.2
USMPDI-045SC-B-02-04-201030	K2010070-002	10/30/20	11/3/20	30.125 g	50 mL	70.4
USMPDI-045SC-B-04-06-201030	K2010070-003	10/30/20	11/3/20	30.0180 g	50 mL	85.5
USMPDI-045SC-B-06-08-201030	K2010070-004	10/30/20	11/3/20	30.059 g	50 mL	83.3
USMPDI-045SC-B-08-10-201030	K2010070-005	10/30/20	11/3/20	30.204 g	50 mL	81.2
USMPDI-045SC-B-10-12-201030	K2010070-006	10/30/20	11/3/20	30.034 g	50 mL	88.4
USMPDI-045SC-B-12-14-201030	K2010070-007	10/30/20	11/3/20	30.001 g	50 mL	81.1
USMPDI-045SC-B-14-16-201030	K2010070-008	10/30/20	11/3/20	30.025 g	50 mL	89.4
USMPDI-045SC-B-16-17.4-201030	K2010070-009	10/30/20	11/3/20	30.057 g	50 mL	78.3
USMPDI-047SC-D-00-02-201030	K2010070-010	10/30/20	11/3/20	30.206 g	50 mL	50.3
USMPDI-047SC-D-02-04-201030	K2010070-011	10/30/20	11/3/20	30.207 g	50 mL	58.4
USMPDI-047SC-D-04-06-201030	K2010070-012	10/30/20	11/3/20	30.013 g	50 mL	84.6
USMPDI-047SC-D-06-08-201030	K2010070-013	10/30/20	11/3/20	30.114 g	50 mL	74.3
USMPDI-047SC-D-08-10-201030	K2010070-014	10/30/20	11/3/20	30.039 g	50 mL	82.9
USMPDI-047SC-D-10-12-201030	K2010070-015	10/30/20	11/3/20	30.045 g	50 mL	82.6
USMPDI-047SC-D-12-14-201030	K2010070-016	10/30/20	11/3/20	30.027 g	50 mL	87.5
USMPDI-047SC-D-14-16-201030	K2010070-017	10/30/20	11/3/20	30.077 g	50 mL	79.9
USMPDI-047SC-D-16-17.7-201030	K2010070-018	10/30/20	11/3/20	30.044 g	50 mL	76.4
USMPDI-1047SC-D-12-14-201030	K2010070-019	10/30/20	11/3/20	30.162 g	50 mL	86.7
Matrix Spike	KQ2017248-01MS	10/30/20	11/3/20	30.039 g	50 mL	81.2
Duplicate Matrix Spike	KQ2017248-02DMS	10/30/20	11/3/20	30.038 g	50 mL	81.2
Lab Control Sample	KQ2017248-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2017248-04MB	NA	NA	30.2070 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:** 702837 **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
K2010070-001	Solids, Total	N/A		Sediment	50.20 Percent	32.6983 g	50.2 Percent	1					11/10/20 16:45:00	N	IV
K2010070-002	Solids, Total	N/A		Sediment	70.40 Percent	41.1670 g	70.4 Percent	1					11/10/20 16:45:00	N	IV
K2010070-003	Solids, Total	N/A		Sediment	85.50 Percent	27.4795 g	85.5 Percent	1					11/10/20 16:45:00	N	IV
K2010070-004	Solids, Total	N/A		Sediment	83.30 Percent	35.6922 g	83.3 Percent	1					11/10/20 16:45:00	N	IV
K2010070-005	Solids, Total	N/A		Sediment	81.20 Percent	33.0603 g	81.2 Percent	1					11/10/20 16:45:00	Y	IV
K2010070-006	Solids, Total	N/A		Sediment	88.40 Percent	25.8822 g	88.4 Percent	1					11/10/20 16:45:00	N	IV
K2010070-007	Solids, Total	N/A		Sediment	81.10 Percent	30.8400 g	81.1 Percent	1					11/10/20 16:45:00	N	IV
K2010070-008	Solids, Total	N/A		Sediment	89.40 Percent	29.3179 g	89.4 Percent	1					11/10/20 16:45:00	N	IV
K2010070-009	Solids, Total	N/A		Sediment	78.30 Percent	42.2198 g	78.3 Percent	1					11/10/20 16:45:00	N	IV
K2010070-010	Solids, Total	N/A		Sediment	50.30 Percent	38.8990 g	50.3 Percent	1					11/10/20 16:45:00	N	IV
K2010070-011	Solids, Total	N/A		Sediment	58.40 Percent	43.9176 g	58.4 Percent	1					11/10/20 16:45:00	N	IV
K2010070-012	Solids, Total	N/A		Sediment	84.60 Percent	28.1676 g	84.6 Percent	1					11/10/20 16:45:00	N	IV
K2010070-013	Solids, Total	N/A		Sediment	74.30 Percent	37.3780 g	74.3 Percent	1					11/10/20 16:45:00	N	IV
K2010070-014	Solids, Total	N/A		Sediment	82.90 Percent	28.5409 g	82.9 Percent	1					11/10/20 16:45:00	N	IV
K2010070-015	Solids, Total	N/A		Sediment	82.60 Percent	29.7864 g	82.6 Percent	1					11/10/20 16:45:00	N	IV
K2010070-016	Solids, Total	N/A		Sediment	87.50 Percent	26.2991 g	87.5 Percent	1					11/10/20 16:45:00	N	IV
K2010070-017	Solids, Total	N/A		Sediment	79.90 Percent	37.8478 g	79.9 Percent	1					11/10/20 16:45:00	N	IV
K2010070-018	Solids, Total	N/A		Sediment	76.40 Percent	38.5850 g	76.4 Percent	1					11/10/20 16:45:00	N	IV
K2010070-019	Solids, Total	N/A		Sediment	86.70 Percent	25.8202 g	86.7 Percent	1					11/10/20 16:45:00	N	IV
KQ2018367-01	Solids, Total	MB		Sediment	0.00 Percent	50.9288 g	0.0 Percent	1					11/10/20 16:45:00	N	IV
KQ2018367-02	Solids, Total	DUP	K2010070-005	Sediment	81.50 Percent	30.8332 g	81.5 Percent	1				<1	11/10/20 16:45:00	N	IV
KQ2018367-03	Solids, Total	DUP	K2010070-019	Sediment	86.60 Percent	26.9246 g	86.6 Percent	1				<1	11/10/20 16:45:00	N	IV

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

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2010070 Method: SM 2540 G

Run: 702837

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

Sample Number		MB	10070-01	10070-02	10070-03	10070-04	10070-05
Crucible Number		6	25	CLARKE	2	27	KAYLI
SampleWeight		50.9288	32.6983	41.1670	27.4795	35.6922	33.0603
Tare Weight	Date	48.7735	51.3865	53.2498	51.9273	51.4137	51.4763
Tare + Dry Wt. (1)	11/18/2020	48.7718	67.7699	82.2119	75.4054	81.1344	78.3034
Tare + Dry Wt. (2)	11/18/2020	48.7719	67.7984	82.2430	75.4219	81.1534	78.3183
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	50.2%	70.4%	85.5%	83.3%	81.2%
Volatile Solids		-3048243.8%	413.1%	283.7%	321.0%	272.9%	291.8%

Sample Number		10070-05DUP	10070-06	10070-07	10070-08	10070-09	10070-010
Crucible Number		BMG	8	NATO	LEXA	3D	LINCOLN
Sample Weight		30.8332	25.8822	30.8400	29.3179	42.2198	38.8990
Tare Weight	Date	74.6368	49.7248	59.1395	50.4952	57.1001	52.2143
Tare + Dry Wt. (1)	11/18/2020	99.7564	72.5915	84.1339	76.7057	90.1386	71.7505
Tare + Dry Wt. (2)	11/18/2020	99.7734	72.6146	84.1522	76.7171	90.1557	71.7707
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		81.5%	88.4%	81.1%	89.4%	78.3%	50.3%
Volatile Solids		396.9%	317.2%	336.4%	292.6%	272.7%	367.0%

% 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:	11/10/2020
Reviewed By:		Date:	11/10/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2010070 Method: SM 2540 G

Run: 702837

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

Sample Number		10070-11	10070-12	10070-13	10070-014	10070-015	10070-16
Crucible Number		24	MONTE	20	762	BILLIE	JOHN
SampleWeight		43.9176	28.1676	37.3780	28.5409	29.7864	26.2991
Tare Weight	Date	47.8501	52.6335	49.9780	75.0571	56.3852	49.9620
Tare + Dry Wt. (1)	11/18/2020	73.4482	76.4429	77.7206	98.7103	80.9801	72.9493
Tare + Dry Wt. (2)	11/18/2020	73.4773	76.4564	77.7432	98.7308	80.9944	72.9629
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		58.4%	84.6%	74.3%	82.9%	82.6%	87.5%
Volatile Solids		286.7%	320.9%	280.0%	417.0%	329.1%	317.2%

Sample Number		10070-17	10070-18	10070-19	10070-19DUP		
Crucible Number		7G	11	19	KANE		
Sample Weight		37.8478	38.5850	25.8202	26.9246		
Tare Weight	Date	56.0877	51.5155	49.8412	48.3022		
Tare + Dry Wt. (1)	11/18/2020	86.3280	80.9639	72.2278	71.5942		
Tare + Dry Wt. (2)	11/18/2020	86.3462	80.9830	72.2390	71.6133		
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		79.9%	76.4%	86.7%	86.6%	#DIV/0!	#DIV/0!
Volatile Solids		285.4%	274.8%	322.5%	307.2%	#DIV/0!	#DIV/0!

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

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

Comments:

105 oven: K - OVEN 07

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

Analyzed By:	BN	Date:	11/10/2020
Reviewed By:	JC	Date:	11/20/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2010070 Method: SM 2540 G

Run: 702837

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

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	11:10	11/10/2020	8:30	11/12/2020
105	8:35	11/18/2020	13:00	11/18/2020
105	14:05	11/18/2020	15:10	11/18/2020

Analyzed By:	BN	Date Analyzed:	11/10/2020
Reviewed By:		Date Reviewed:	11/20/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2010070 Method: SM 2540 G

Run: 702837

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

CCV Verification SN:100122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9960	100.0%	CCV1	9.9987	100.0%	11/10/2020
CCV2	199.9952	100.0%	CCV2	9.9987	100.0%	11/10/2020
CCV3	199.9972	100.0%	CCV3	9.9987	100.0%	11/18/2020
CCV4	199.9968	100.0%	CCV4	9.9987	100.0%	11/18/2020
CCV5	199.9965	100.0%	CCV5	9.9986	100.0%	11/18/2020
CCV6	199.9965	100.0%	CCV6	9.9987	100.0%	11/18/2020
CCV7	199.9966	100.0%	CCV7	9.9984	100.0%	11/18/2020
CCV8	199.9964	100.0%	CCV8	9.9977	100.0%	11/18/2020
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:	11/10/2020
Reviewed By:	JC	Date Reviewed:	11/20/20

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#: 369148
Team: Semivoa GC/BGREER
Number of Copies to make: 1

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/4/20 13:00

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2010070-001	USMPDI-045SC-B-00-02-201030	.01	8151A/HERB		Sediment	30.196g	50.00mL	JGRIMES K-balance-49
2	K2010070-002	USMPDI-045SC-B-02-04-201030	.01	8151A/HERB		Sediment	30.125g	50.00mL	JGRIMES K-balance-49
3	K2010070-003	USMPDI-045SC-B-04-06-201030	.01	8151A/HERB		Sediment	30.0180g	50.00mL	JGRIMES K-balance-49
4	K2010070-004	USMPDI-045SC-B-06-08-201030	.01	8151A/HERB		Sediment	30.059g	50.00mL	JGRIMES K-balance-49
5	K2010070-005	USMPDI-045SC-B-08-10-201030	.02	8151A/HERB		Sediment	30.204g	50.00mL	JGRIMES K-balance-49
6	K2010070-006	USMPDI-045SC-B-10-12-201030	.01	8151A/HERB		Sediment	30.034g	50.00mL	JGRIMES K-balance-49
7	K2010070-007	USMPDI-045SC-B-12-14-201030	.01	8151A/HERB		Sediment	30.001g	50.00mL	JGRIMES K-balance-49
8	K2010070-008	USMPDI-045SC-B-14-16-201030	.01	8151A/HERB		Sediment	30.025g	50.00mL	JGRIMES K-balance-49
9	K2010070-009	USMPDI-045SC-B-16-17.4-201030	.01	8151A/HERB		Sediment	30.057g	50.00mL	JGRIMES K-balance-49
10	K2010070-010	USMPDI-047SC-D-00-02-201030	.01	8151A/HERB		Sediment	30.206g	50.00mL	JGRIMES K-balance-49
11	K2010070-011	USMPDI-047SC-D-02-04-201030	.01	8151A/HERB		Sediment	30.207g	50.00mL	JGRIMES K-balance-49
12	K2010070-012	USMPDI-047SC-D-04-06-201030	.01	8151A/HERB		Sediment	30.013g	50.00mL	JGRIMES K-balance-49
13	K2010070-013	USMPDI-047SC-D-06-08-201030	.01	8151A/HERB		Sediment	30.114g	50.00mL	JGRIMES K-balance-49
14	K2010070-014	USMPDI-047SC-D-08-10-201030	.01	8151A/HERB		Sediment	30.039g	50.00mL	JGRIMES K-balance-49
15	K2010070-015	USMPDI-047SC-D-10-12-201030	.01	8151A/HERB		Sediment	30.045g	50.00mL	JGRIMES K-balance-49
16	K2010070-016	USMPDI-047SC-D-12-14-201030	.01	8151A/HERB		Sediment	30.027g	50.00mL	JGRIMES K-balance-49
17	K2010070-017	USMPDI-047SC-D-14-16-201030	.01	8151A/HERB		Sediment	30.077g	50.00mL	JGRIMES K-balance-49
18	K2010070-018	USMPDI-047SC-D-16-17.7-201030	.01	8151A/HERB		Sediment	30.044g	50.00mL	JGRIMES K-balance-49
19	K2010070-019	USMPDI-1047SC-D-12-14-201030	.01	8151A/HERB		Sediment	30.162g	50.00mL	JGRIMES K-balance-49
20	KQ2017248-01	K2010070-005 MS	.02	8151A/HERB		Solid	30.039g	50.00mL	JGRIMES K-balance-49
21	KQ2017248-02	K2010070-005 DMS	.02	8151A/HERB		Solid	30.038g	50.00mL	JGRIMES K-balance-49
22	KQ2017248-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	
23	KQ2017248-04	MB		8151A/HERB		Solid	30.2070g	50.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate Inventory ID 213361 Logbook Ref: Penta02-14G Expires On: 04/16/2021

K2010070-001	1,000.00µL	K2010070-002	1,000.00µL	K2010070-003	1,000.00µL	K2010070-004	1,000.00µL	K2010070-005	1,000.00µL	K2010070-006	1,000.00µL
K2010070-007	1,000.00µL	K2010070-008	1,000.00µL	K2010070-009	1,000.00µL	K2010070-010	1,000.00µL	K2010070-011	1,000.00µL	K2010070-012	1,000.00µL
K2010070-013	1,000.00µL	K2010070-014	1,000.00µL	K2010070-015	1,000.00µL	K2010070-016	1,000.00µL	K2010070-017	1,000.00µL	K2010070-018	1,000.00µL
K2010070-019	1,000.00µL	KQ2017248-01	1,000.00µL	KQ2017248-02	1,000.00µL	KQ2017248-03	1,000.00µL	KQ2017248-04	1,000.00µL		

Preparation Information Benchsheet

Prep Run#: 369148
Team: Semivoa GC/BGREER

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/4/20 13:00

Preparation Steps

Step:	Weigh	Step:	Extraction	Step:	Derivitization	Step:	Final Volume
Started:	11/4/20 13:00	Started:	11/13/20 13:25	Started:	11/16/20 10:15	Started:	11/16/20 10:55
Finished:	11/13/20 14:42	Finished:	11/13/20 14:30	Finished:	11/16/20 10:55	Finished:	11/16/20 12:49
By:	BGREER	By:	BGREER	By:	WVANDERHOFF	By:	WVANDERHOFF
Comments		Comments		Comments		Comments	

Comments: _____

Reviewed By: _____ Date: 11-20-20

Chain of Custody

Relinquished By: _____ Date: 11.16.20

Received By: _____ Date: 11-16-20

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 369148
Team: Semivoa GC/BGREER
Number of Copies to make: 1

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Draft
Prep Date/Time: 11/4/20 13:00 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	K2010070-001	USMPDI-045SC-B-00-02-201030	.01	✓	8151A / HERB	Sediment	X	N/A	10	50	1000	—
2	K2010070-002	USMPDI-045SC-B-02-04-201030	.01	✓	8151A / HERB	Sediment	X		10	50		—
3	K2010070-003	USMPDI-045SC-B-04-06-201030	.01	✓	8151A / HERB	Sediment	X		10	50		—
4	K2010070-004	USMPDI-045SC-B-06-08-201030	.01	✓	8151A / HERB	Sediment	X		10	50		—
5	K2010070-005	USMPDI-045SC-B-08-10-201030	.02	✓	8151A / HERB	Sediment	X		10	50		—
6	K2010070-006	USMPDI-045SC-B-10-12-201030	.01	✓	8151A / HERB	Sediment	X		10	50		—
7	K2010070-007	USMPDI-045SC-B-12-14-201030	.01	✓	8151A / HERB	Sediment	X		10	50		—
8	K2010070-008	USMPDI-045SC-B-14-16-201030	.01	✓	8151A / HERB	Sediment	X		10	50		—
9	K2010070-009	USMPDI-045SC-B-16-17.4-201030	.01	✓	8151A / HERB	Sediment	X		10	50		—
10	K2010070-010	USMPDI-047SC-D-00-02-201030	.01	✓	8151A / HERB	Sediment	X		10	50		—
11	K2010070-011	USMPDI-047SC-D-02-04-201030	.01	✓	8151A / HERB	Sediment	X		10	50		—
12	K2010070-012	USMPDI-047SC-D-04-06-201030	.01	✓	8151A / HERB	Sediment	X		10	50		—
13	K2010070-013	USMPDI-047SC-D-06-08-201030	.01	✓	8151A / HERB				10	50		—
14	K2010070-014	USMPDI-047SC-D-08-10-201030	.01	✓	8151A / HERB				10	50		—
15	K2010070-015	USMPDI-047SC-D-10-12-201030	.01	✓	8151A / HERB				10	50		—
16	K2010070-016	USMPDI-047SC-D-12-14-201030	.01	✓	8151A / HERB				10	50		—
17	K2010070-017	USMPDI-047SC-D-14-16-201030	.01	✓	8151A / HERB				10	50		—
18	K2010070-018	USMPDI-047SC-D-16-17.7-201030	.01	✓	8151A / HERB				10	50		—
19	K2010070-019	USMPDI-1047SC-D-12-14-201030	.01	✓	8151A / HERB				10	50		—
20	KQ2017248-01	K2010070-005 MS	.02	✓	8151A / HERB				10	50		1000
21	KQ2017248-02	K2010070-005 DMS	.02	✓	8151A / HERB				10	50		↓
22	KQ2017248-03	LCS		~	8151A / HERB				10	50		↓
23	KQ2017248-04	MB		—	8151A / HERB				10	50		—

MS not in LIMS

Comments:

Surrogate ID: Penta02-14G 5ppm Ace xp: 4/16/21

Spike ID: Penta02-15F 5-500ppm Ace xp: 5/2/21

Witnessed By: Regina Zielinski

Analyst: BGreer

Assisted By: Regina Zielinski

Printed 11/12/20 16:48

Pre-Prep Information Benchsheet

Prep Run #: 369148 **Container Lot No:** 090720-1TW **Prep Due Date:** Nov-09-2020

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2010070-001	.01	HERB : 8151A	30.196g		JGRIMES K-balance-49
2	K2010070-002	.01	HERB : 8151A	30.125g		JGRIMES K-balance-49
3	K2010070-003	.01	HERB : 8151A	~~30.025g~~ 30.018g		JGRIMES K-balance-49
4	K2010070-004	.01	HERB : 8151A	30.059g		JGRIMES K-balance-49
5	K2010070-005	.02	HERB : 8151A	30.204g		JGRIMES K-balance-49
6	K2010070-005 MS KQ2017248-01	.02	HERB : 8151A	30.039g		JGRIMES K-balance-49
7	K2010070-005 DMS KQ2017248-02	.02	HERB : 8151A	30.038g		JGRIMES K-balance-49
8	K2010070-006	.01	HERB : 8151A	30.034g		JGRIMES K-balance-49
9	K2010070-007	.01	HERB : 8151A	30.001g		JGRIMES K-balance-49
10	K2010070-008	.01	HERB : 8151A	30.025g		JGRIMES K-balance-49
11	K2010070-009	.01	HERB : 8151A	30.057g		JGRIMES K-balance-49
12	K2010070-010	.01	HERB : 8151A	30.206g		JGRIMES K-balance-49
13	K2010070-011	.01	HERB : 8151A	30.207g		JGRIMES K-balance-49
14	K2010070-012	.01	HERB : 8151A	30.013g		JGRIMES K-balance-49
15	K2010070-013	.01	HERB : 8151A	30.114g		JGRIMES K-balance-49
16	K2010070-014	.01	HERB : 8151A	30.039g		JGRIMES K-balance-49
17	K2010070-015	.01	HERB : 8151A	30.045g		JGRIMES K-balance-49
18	K2010070-016	.01	HERB : 8151A	30.027g		JGRIMES K-balance-49
19	K2010070-017	.01	HERB : 8151A	30.077g		JGRIMES K-balance-49
20	K2010070-018	.01	HERB : 8151A	30.044g		JGRIMES K-balance-49
21	K2010070-019	.01	HERB : 8151A	30.162g		JGRIMES K-balance-49

Relinquished By:	JG	Date/Time:	11-4-20 13:02	Received By:	BGreer	Date/Time:	11/12/20 1645

ALS Environmental
Extraction Analyst Notes

Service Request: _____ Prep Group: _____

Topic	Notes	Initials/Date
No Anomalies: ☐		
Sample Anomalies: ☐		
Organics Present (sticks, leafs, bugs): ☐		
Fuel Odors: ☐		
Sulfur Odors, Precipitate: ☐		
General Notes:	⊗ knocked over before extraction. Re-weighed for extraction.	BG 11/13/20

Reviewed by: Jonathon Walter 12/19/18

EXT-NOTES r.0

Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # K2010070 **Work Group #** KQ2017248

Acidified Sulfate Lot # DZ03-87M Matrix Sand Lot # 012418

Ethyl Ether Lot # DZ270·US Hydrochloric Acid Lot # 58242

Wrist Action Shaker Start (time/date/initial): 1325 11/13/20 BG/RZ

Wrist Action Shaker Stop (time/date/initial): 1430 11/13/20 BG/RZ

N-Evap (time/date/initial): 1020 11/14/20 JW/ N-Evap Thermometer ID: SVM-004

Temp as measured: 60 °C Correction factor: — °C Adjusted temp: — °C

Saponification Start (time/date/initial): 1020 11/14/20 JW/RZ 37% KOH Lot # DZ03-80J

Saponification Stop (time/date/initial): 1120 11/14/20 JW

Extraction Start (time/date/initial): 1200 11/14/20 JW/RZ Sulfuric Acid Lot # DZ03-97F

Extraction Stop (time/date/initial): 1400 11/14/20 JW/RZ

Derivatization Start (time/date/initial): 10:15 11·16·20 WS Diazomethane Lot # DZ03·43N

Derivatization Stop (time/date/initial): 10:55 11·16·20 WS

Pipette (5 mL) Lot # 04420647

Solvent Exchange to Iso-Octane (time/date/initial): 10:55 11·16·20 WS

Iso-Octane Lot # DU982·U5 N-Evap Thermometer ID: DWB·012

Temp as measured: 22 °C Correction factor: 0.0 °C Adjusted temp: 22 °C

Pipette (1 mL) Lot # 21119646 2 mL.

Vial: red Vial Storage: 4°C

Archive Storage: Popcorny

Additional Comments:

Bench Sheet Review Check List	
☑	Hold times met (if no, reason:)
☐	Prep date, time, method, department, product code correct in stealth
☐	Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
☐	Weights/Volumes and units correct on raw and final bench sheets
☐	Sample IDs have been checked - bottle numbers appended if required
☐	Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
☐	Extract storage recorded
☐	Additional prep sheet completely filled out (NA or line out blanks)
☐	All clean-ups have been noted on additional prep sheet
☐	Signed service request with Form V, if applicable, has been attached

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160020.D\
Lab ID: K2010070-001
RunType: N/A
Matrix: Sediment

Date Acquired: 11/16/20 00:44:00
Batch ID: 703644
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 (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
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160020.D\	**Instrument:**	K-GC-24
Acqu Date:	11/16/20 00:44:00	**Vial:**	11
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-001	**Raw Units:**	ppb

Bottle ID:	K2010070-001.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1521432	3987645	83.611	94.275	84	94	94	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	10.24	10.08	29654	1129369	0.317	5.563	0.52U	9.2J	2.4 U	Y
2,4-D	9.32	9.09	28993	193061	1.365	3.771	2.3U	6.2U	7.7 U	Y

Prep Amount:	30.196 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160020.D Vial: 36
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:44 am Operator: UA
Sample : K2010070-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:19:51 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 17:31:59 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...	7.979	7.805	1521432	3987645	83.611	94.275	
		Target Compounds							
1)	m	Dalapon	3.136	2.875	19733	199850	0.813	4.137	#
3)	m	Dicamba	8.232	7.915	27838	123304	0.399	0.832	#
4)	m	MCPP	8.302	8.092	302383	221154	7015.809	109.728	#
5)	m	MCPA	8.596	8.335	26304	269184	449.238	N.D.	#
6)	m	Dichloroprop	8.952	8.762	74483	114007	3.994	2.733	#
7)	m	2,4-D	9.322	9.089	28993	193061	1.365	3.771	#
8)	m	2,4,5-TP ...	10.242	10.082f	29654	1129369	0.317	5.563	#
9)	m	2,4,5-T	10.679	10.525	137108	198503	1.662	1.037	#
10)	m	2,4-DB	11.246	11.169	22980	170628	2.240	5.881	#
11)	m	Dinoseb	11.639	11.319	109977	177354	1.778	1.297	#

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

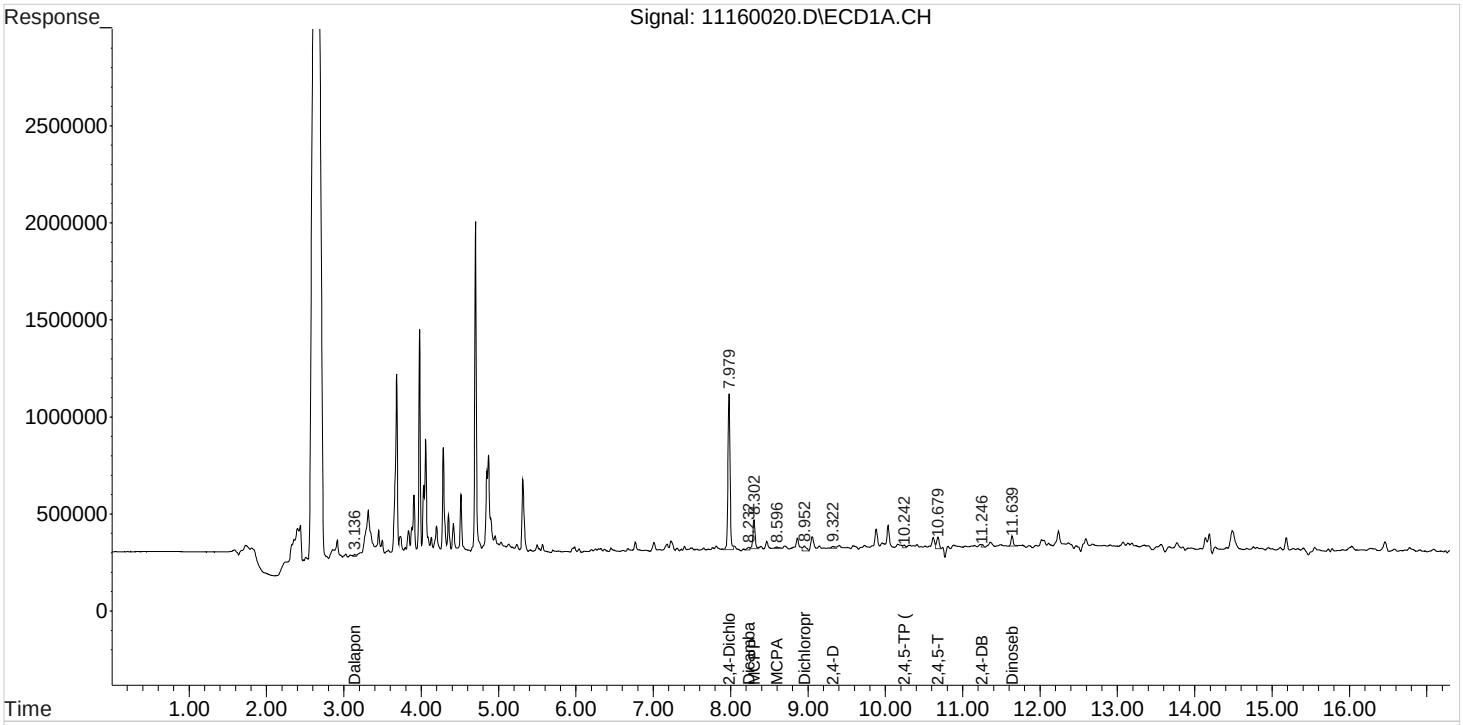
Quantitation Report (QT Reviewed)

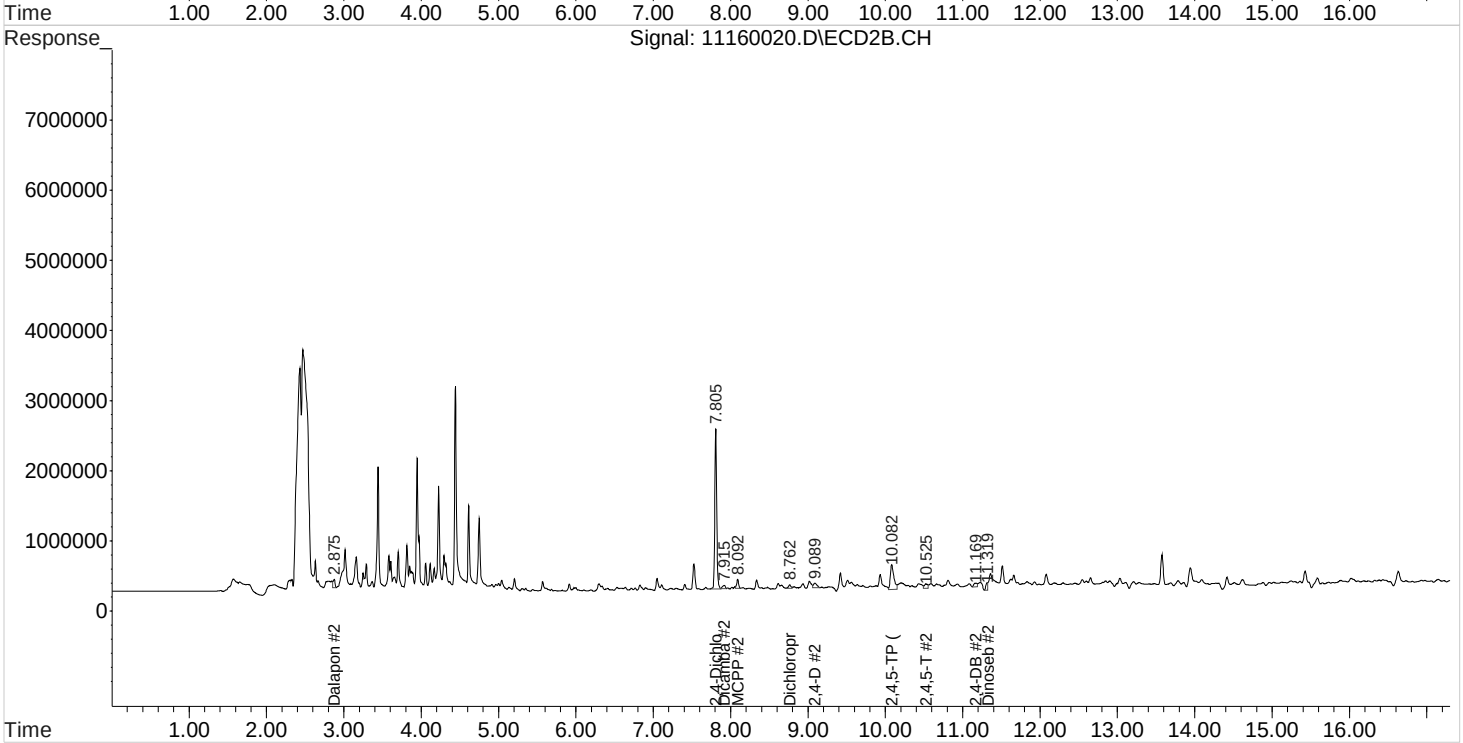
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160020.D Vial: 36
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:44 am Operator: UA
Sample : K2010070-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:19:51 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 17:31:59 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 UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160021.D\
Lab ID: K2010070-002
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 01:07:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160021.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 01:07:00	**Vial:**	12
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-002	**Raw Units:**	ppb

Bottle ID:	K2010070-002.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1564595	4218447	85.983	99.732	86	100	86	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	10.25 +0.01	10.08 -0.04	18801	511205	0.201	2.518 CCV	0.33U	4.2J	2.4 U	Y
2,4-D	9.31 +0.01	9.04 -0.01	17200	94864	0.810	1.853 CCV	1.3U	3.1U	7.7 U	Y

Prep Amount:	30.125 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160021.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:07 am Operator: UA
Sample : K2010070-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:32:21 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 17:31:59 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...	7.979	7.808	1564595	4218447	85.983	99.732	
	Target Compounds							
1) m	Dalapon	3.135	2.875	6569	142116	0.271	2.942	#
3) m	Dicamba	8.225	7.918	5156	98440	0.074	0.664	#
4) m	MCPP	8.302	8.092	205119	364654	4922.768	1101.512	#
5) m	MCPA	8.629f	8.335	52132	225679	890.346	N.D.	#
6) m	Dichloroprop	8.952	8.755	70709	136853	3.792	3.281	
7) m	2,4-D	9.309	9.045	17200	94864	0.810	1.853	#
8) m	2,4,5-TP ...	10.245	10.078f	18801	511205	0.201	2.518m	#
9) m	2,4,5-T	10.679	10.518	69389	128394	0.841	0.671	
10) m	2,4-DB	11.259	11.165	17090	206651	1.666	7.122	#
11) m	Dinoseb	11.639	0.000	84296	0	1.363	N.D.	d#

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

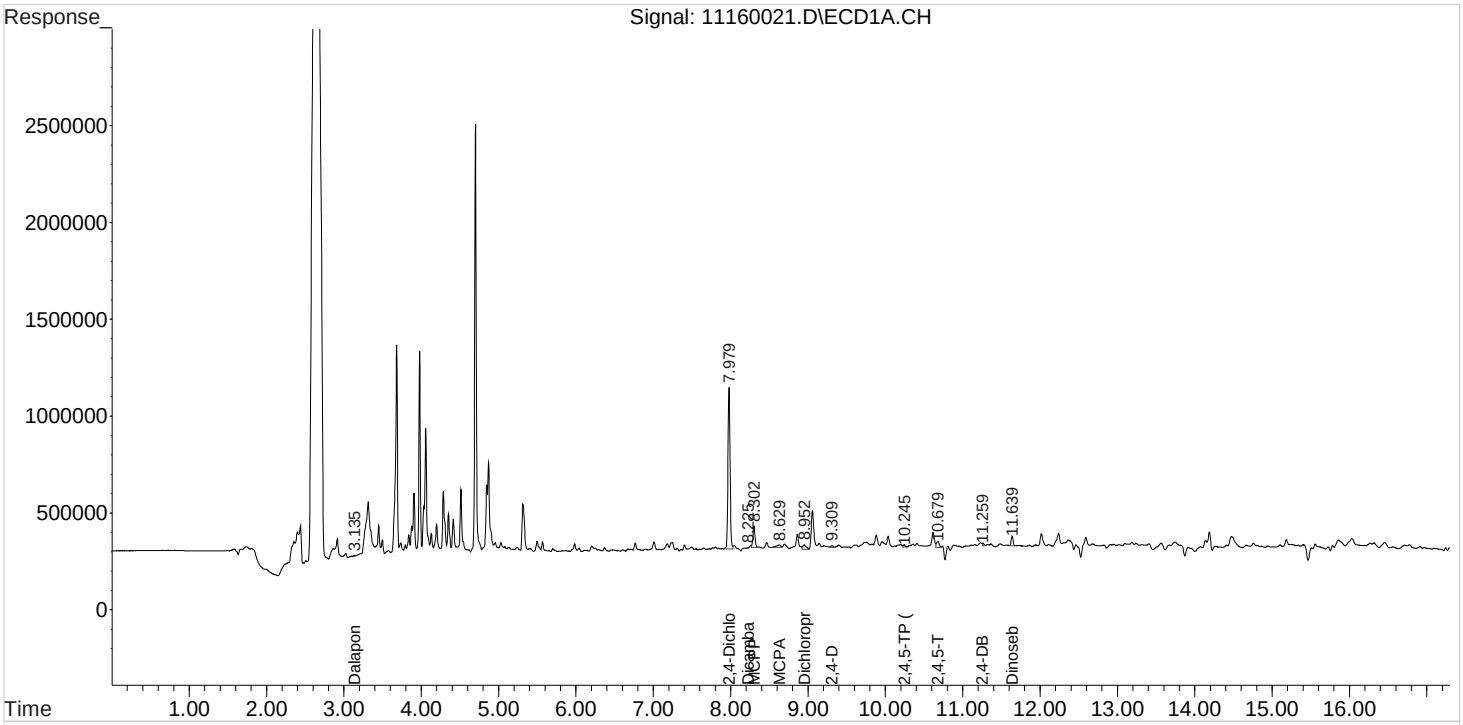
Quantitation Report (QT Reviewed)

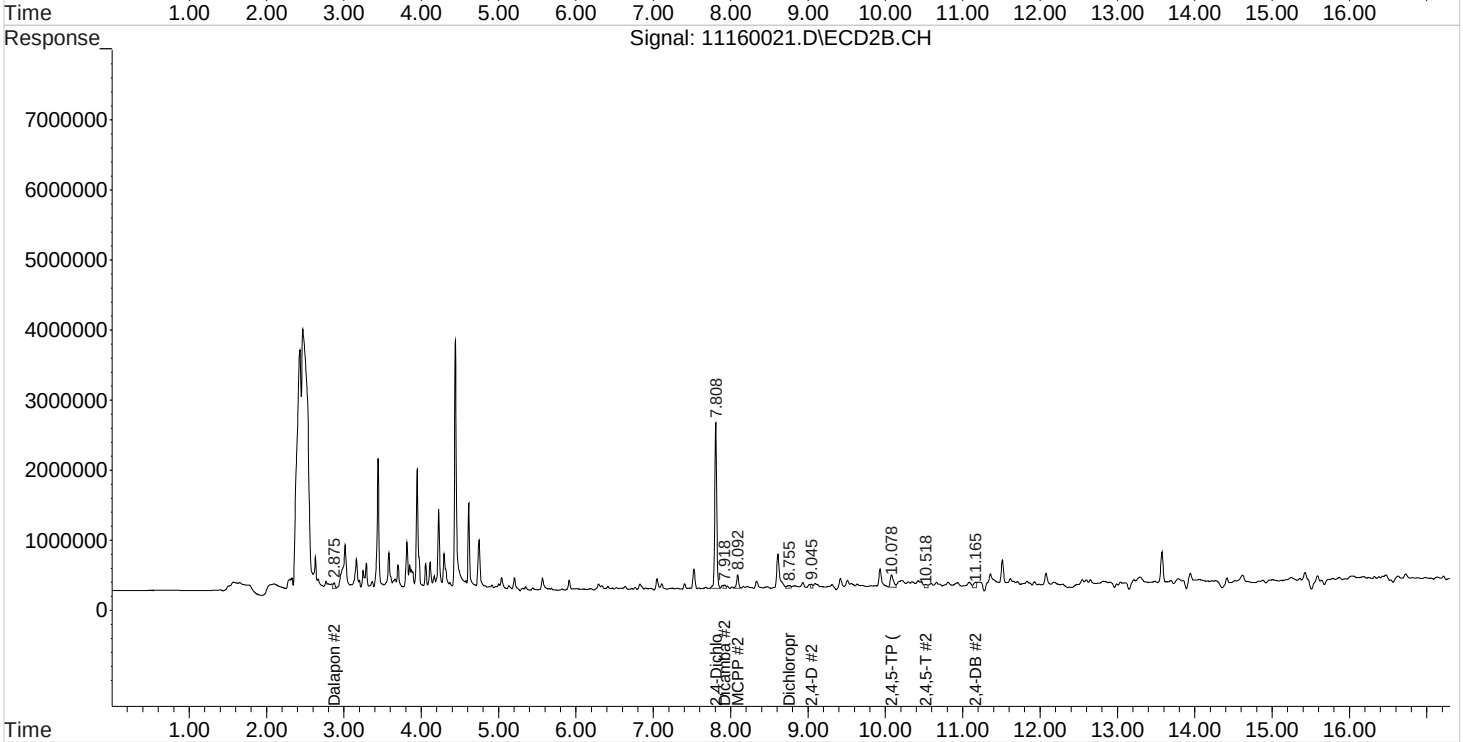
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160021.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:07 am Operator: UA
Sample : K2010070-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:32:21 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 17:31:59 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





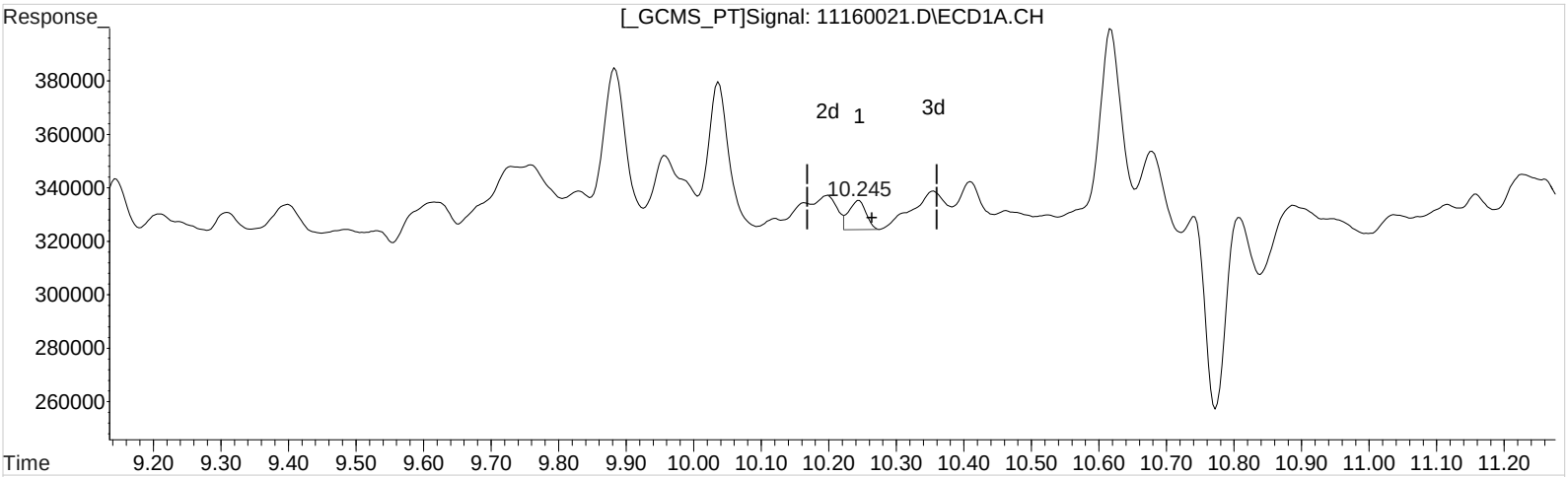
Quantitation Report (Qedit)

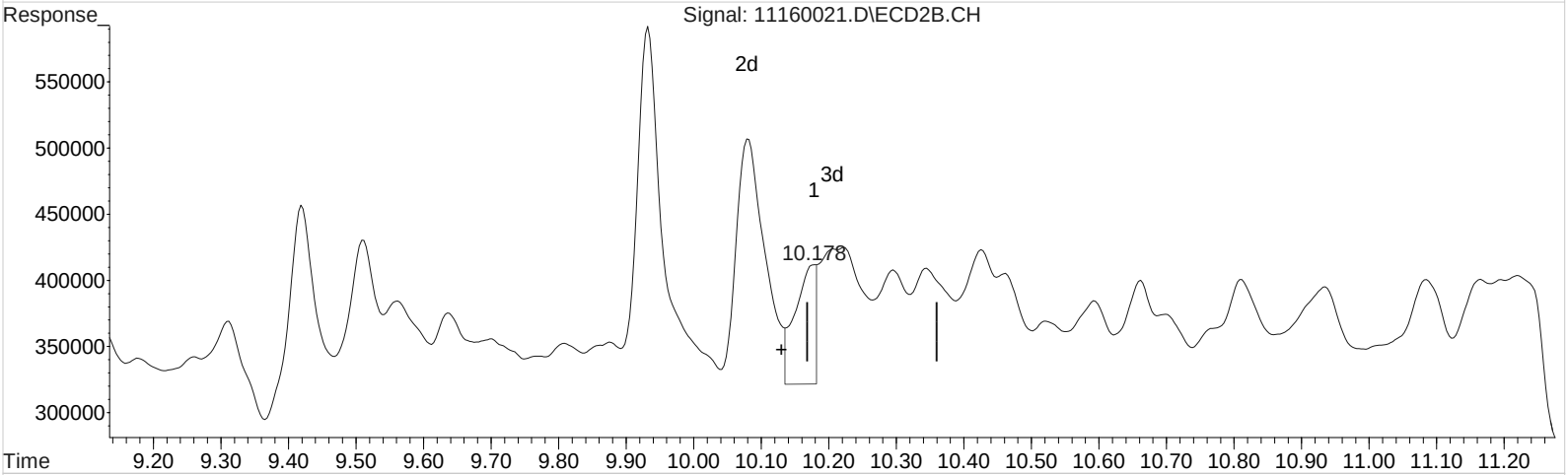
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160021.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:07 am Operator: UA
Sample : K2010070-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:26:47 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)

10.245min 0.201 ppb

response 18801

Manual Integration:

Before

11/19/20

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

10.178min 0.956 ppb

response 194135

(+) = Expected Retention Time

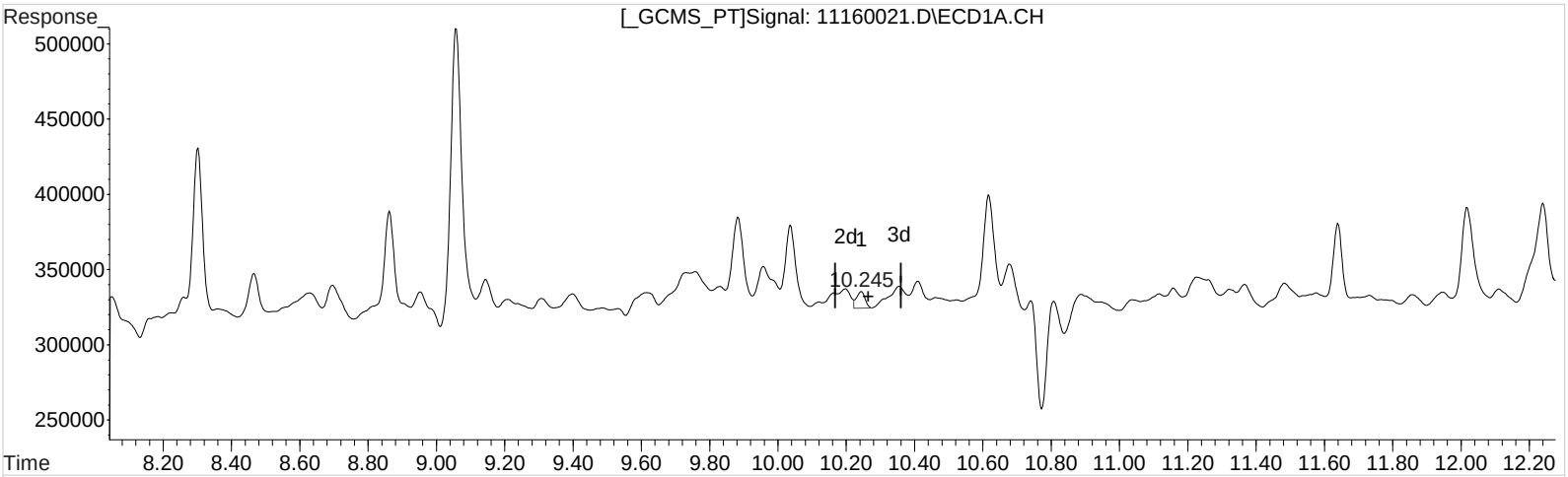
Quantitation Report (Qedit)

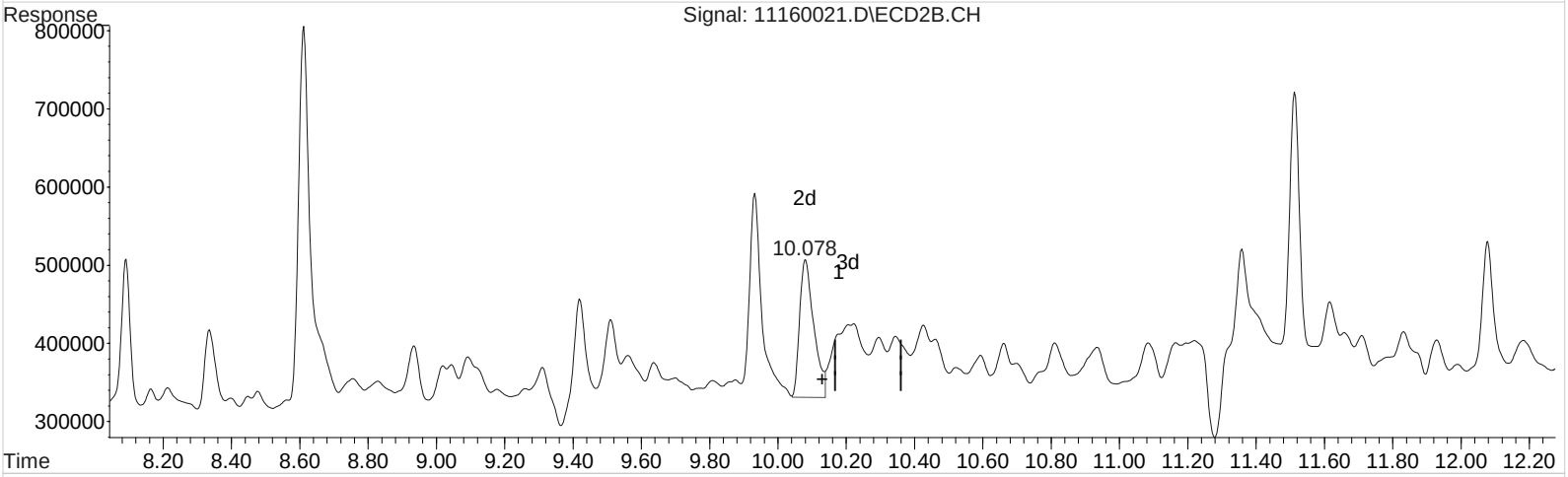
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160021.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:07 am Operator: UA
Sample : K2010070-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:26:47 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)

10.245min 0.201 ppb

response 18801

Manual Integration:

After

Wrong Peak

11/19/20

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

10.078min 2.518 ppb m

response 511205

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160022.D\
Lab ID: K2010070-003
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 01:30:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160022.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 01:30:00	**Vial:**	13
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-003	**Raw Units:**	ppb

Bottle ID:	K2010070-003.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1379570	3757657	75.815	88.838	76	89	76	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	10.25 +0.01	10.11 -0.01	21738	10907	0.232	0.054 CCV	0.39U	0.090U	2.4 U	Y
2,4-D	9.29 -0.01	9.02 -0.03	17085	24972	0.804	0.488 CCV	1.3U	0.81U	7.7 U	Y

Prep Amount:	30.0180 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160022.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:30 am Operator: UA
Sample : K2010070-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:33:26 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...	7.980	7.810	1379570	3757657	75.815m	88.838m
	Target Compounds						
1) m	Dalapon	3.137	2.873	9511	402334	0.392	8.328 #
3) m	Dicamba	8.203	7.906	41226	56817	0.591	0.383 #
4) m	MCPP	8.310	8.093	16081	67656	854.826	N.D. #
5) m	MCPA	8.600	8.336	10231	239735	174.732	N.D. #
6) m	Dichloroprop	8.953	8.753	73687	11340	3.952	0.272 #
7) m	2,4-D	9.287	9.023	17085	24972	0.804	0.488 #
8) m	2,4,5-TP ...	10.247	10.113	21738	10907	0.232	0.054 #
9) m	2,4,5-T	10.690	10.523	14839	22767	0.180	0.119 #
10) m	2,4-DB	11.230f	11.160	50710	39595	4.943m	1.365 #
11) m	Dinoseb	11.640	0.000	86555	0	1.399	N.D. d#

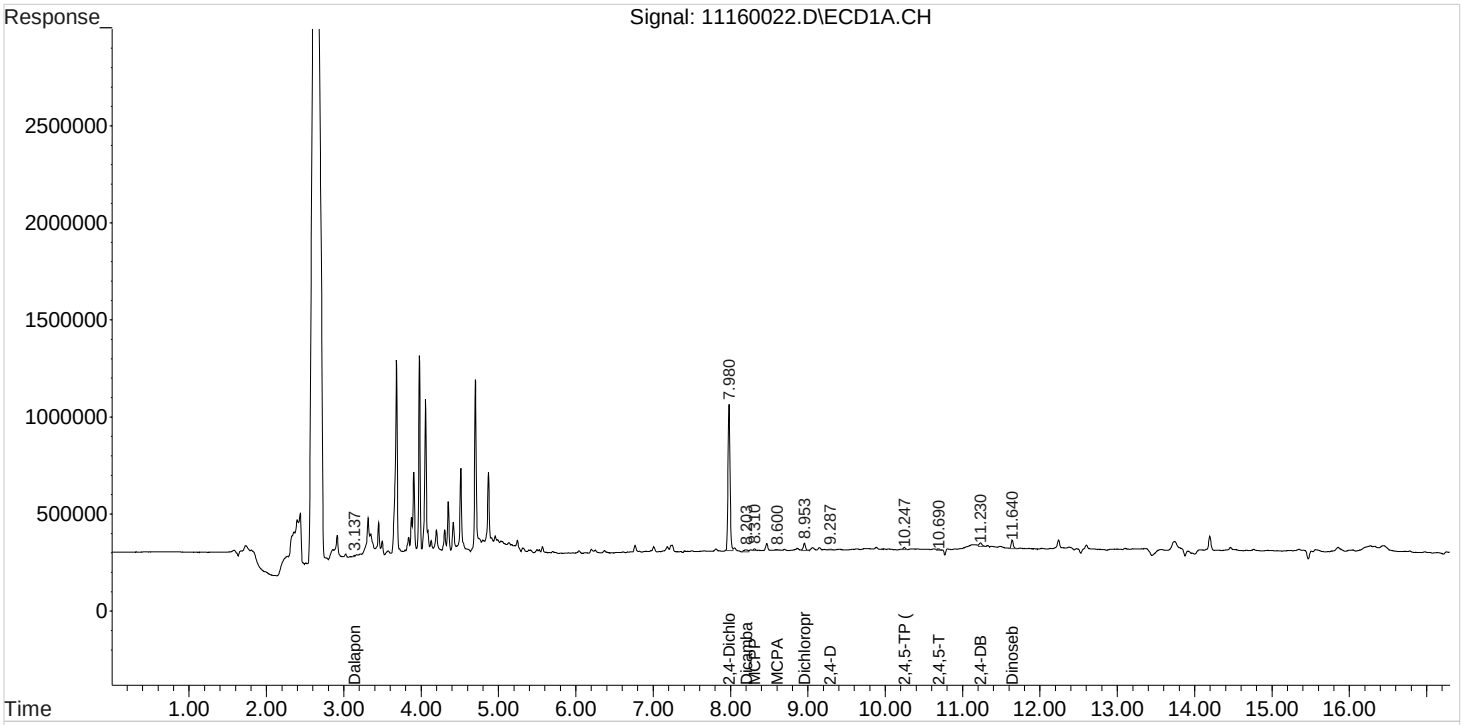
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

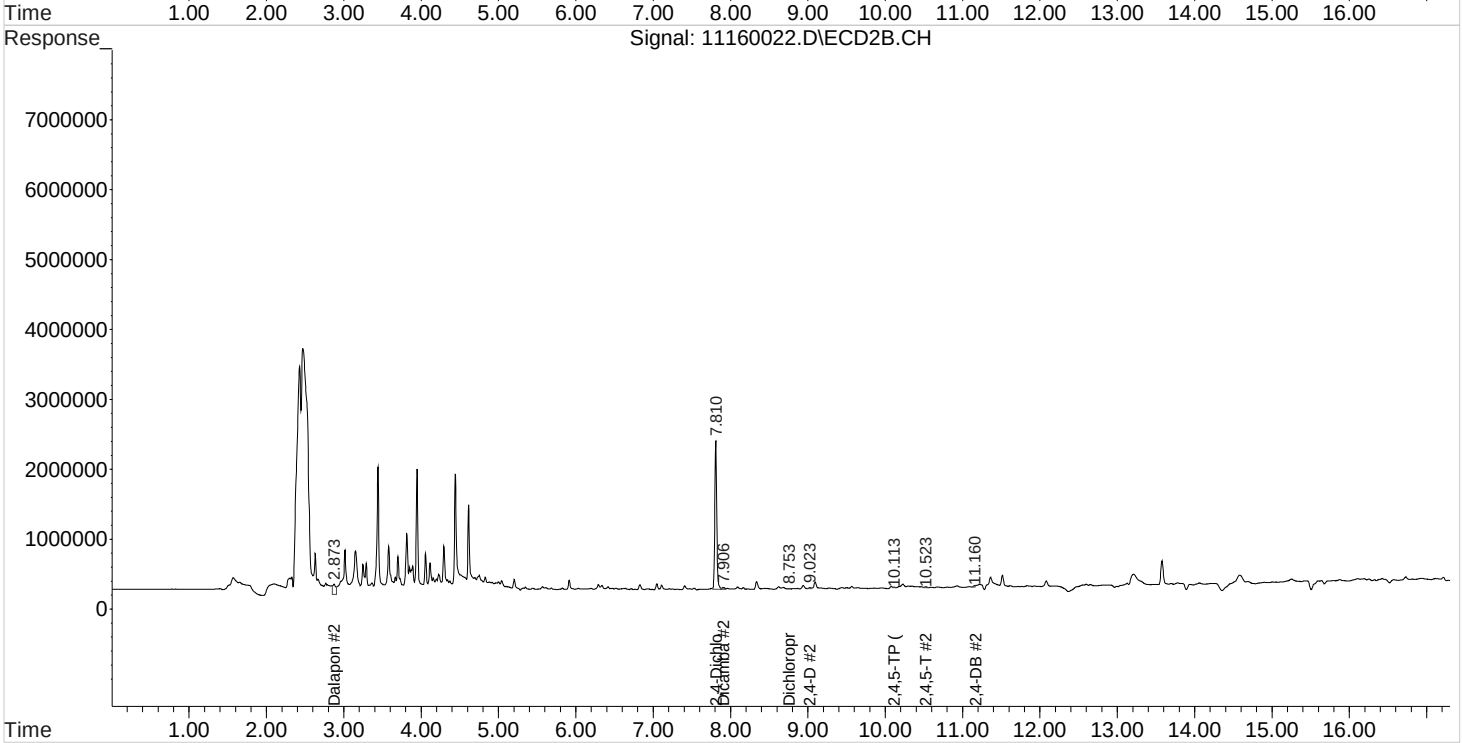
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160022.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:30 am Operator: UA
Sample : K2010070-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:33:26 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





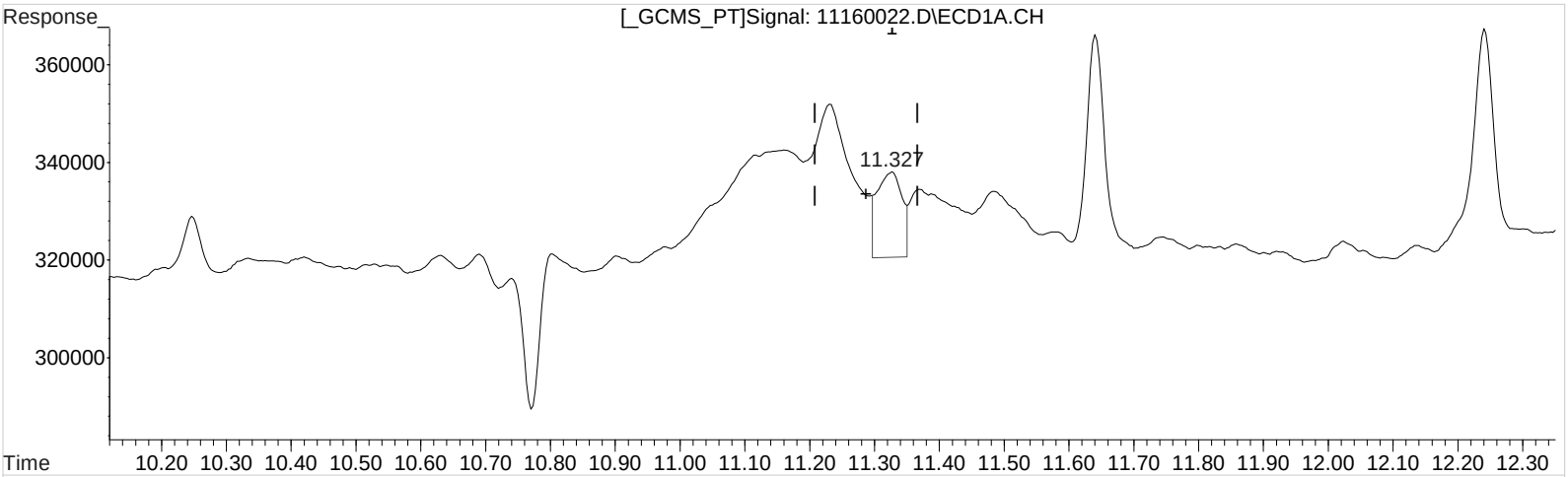
Quantitation Report (Qedit)

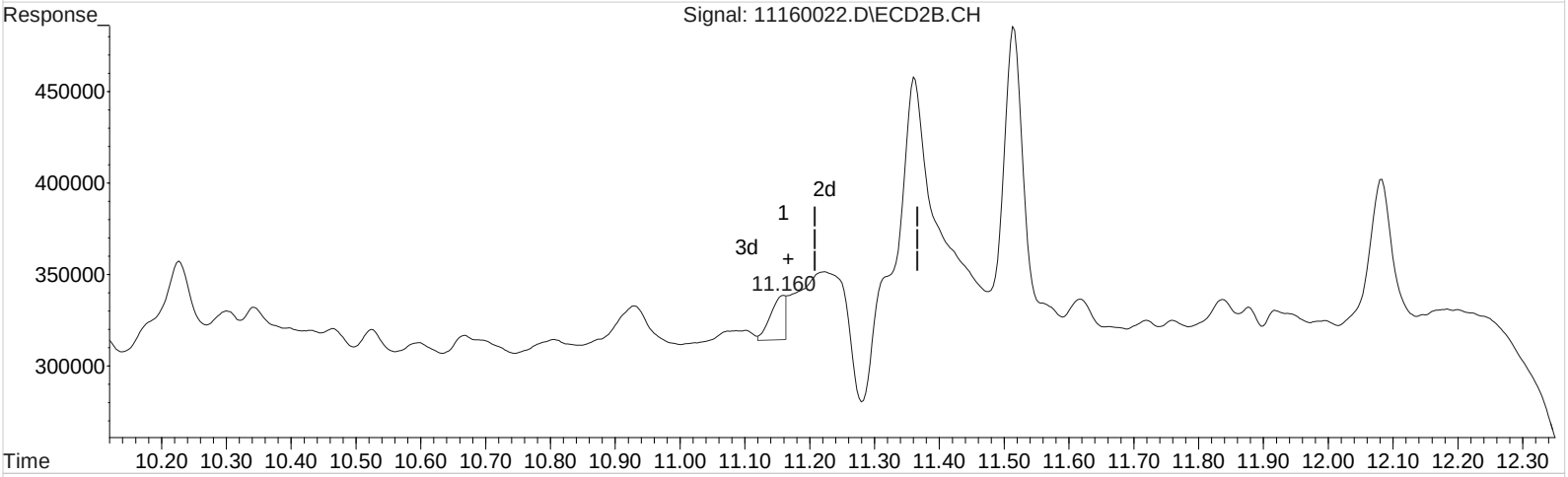
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160022.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:30 am Operator: UA
Sample : K2010070-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:32:29 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 17:31:59 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

(10) 2,4-DB (m)

11.327min 4.573 ppb

response 46914

Manual Integration:

Before

11/19/20

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

11.160min 1.365 ppb

response 39595

(+) = Expected Retention Time

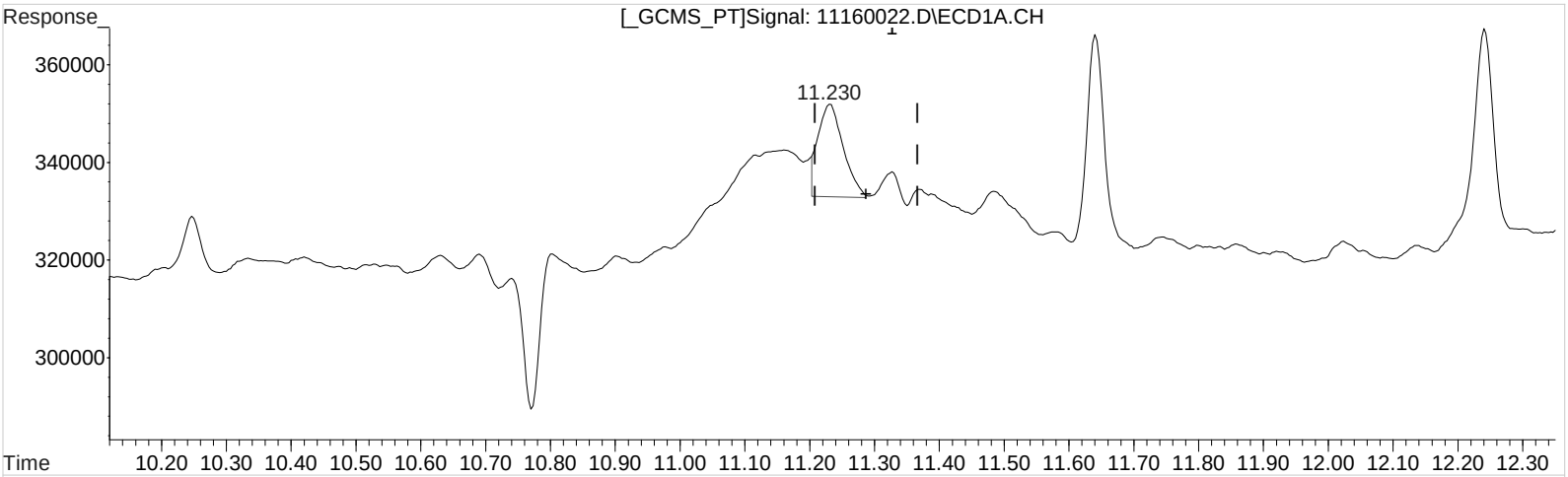
Quantitation Report (Qedit)

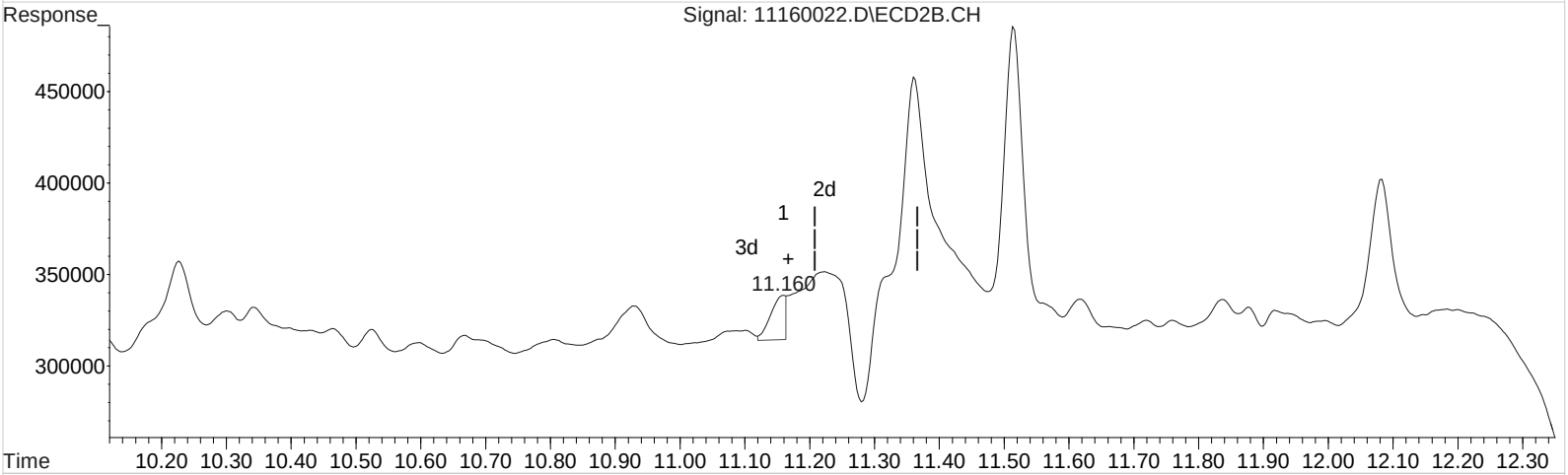
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160022.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:30 am Operator: UA
Sample : K2010070-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:32:29 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 17:31:59 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

(10) 2,4-DB (m)

11.230min 4.943 ppb m

response 50710

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

11.160min 1.365 ppb

response 39595

(+) = Expected Retention Time

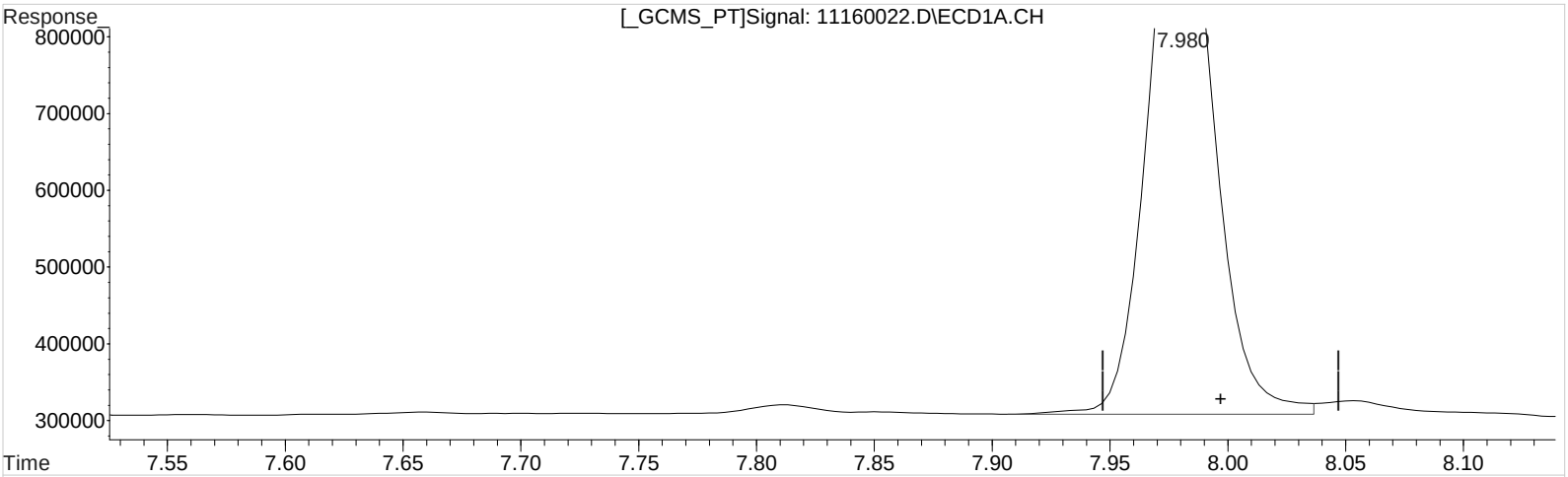
Quantitation Report (Qedit)

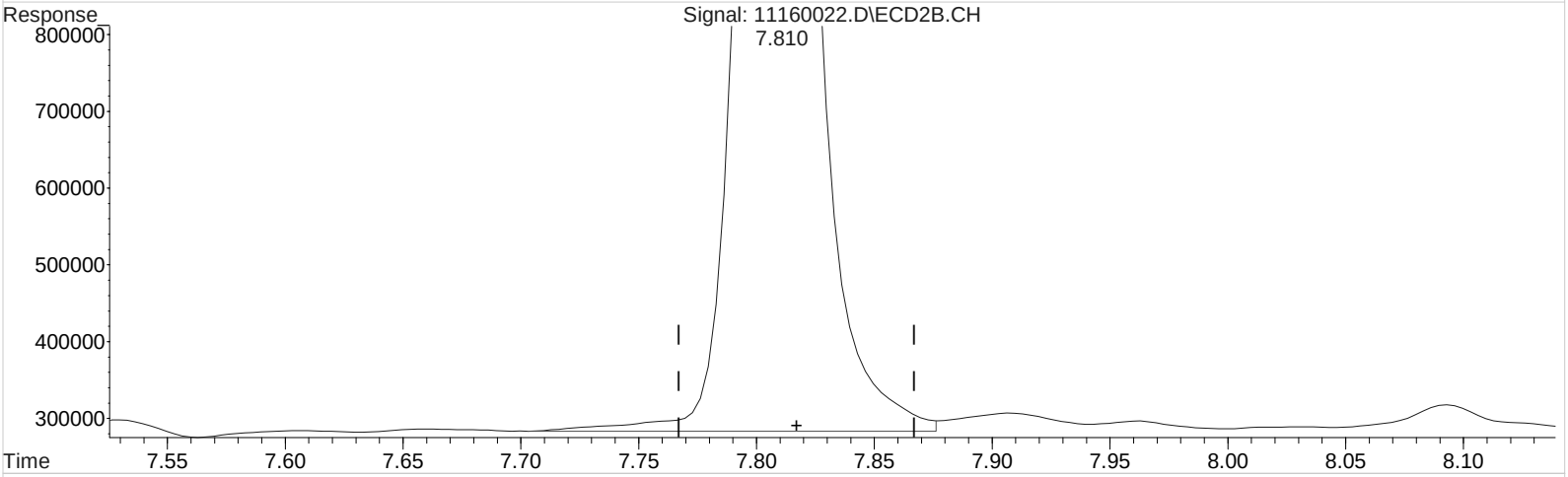
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160022.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:30 am Operator: UA
Sample : K2010070-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:32:29 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 17:31:59 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)

7.980min 77.480 ppb

response 1409871

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

7.810min 89.811 ppb

response 3798801

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

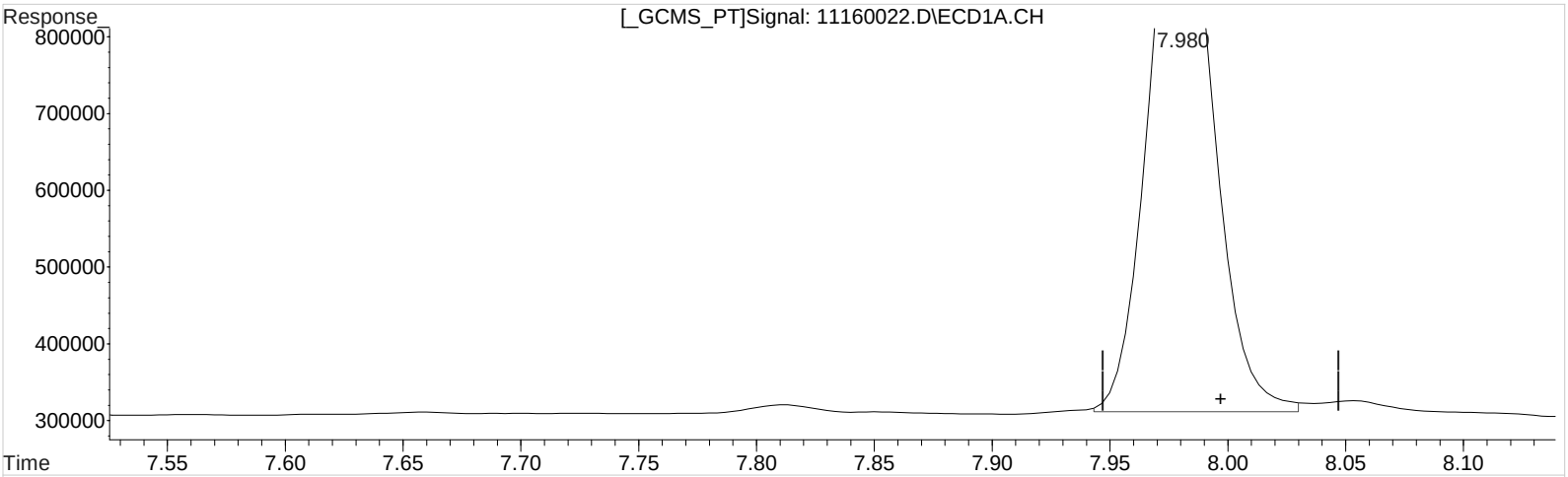
Quantitation Report (Qedit)

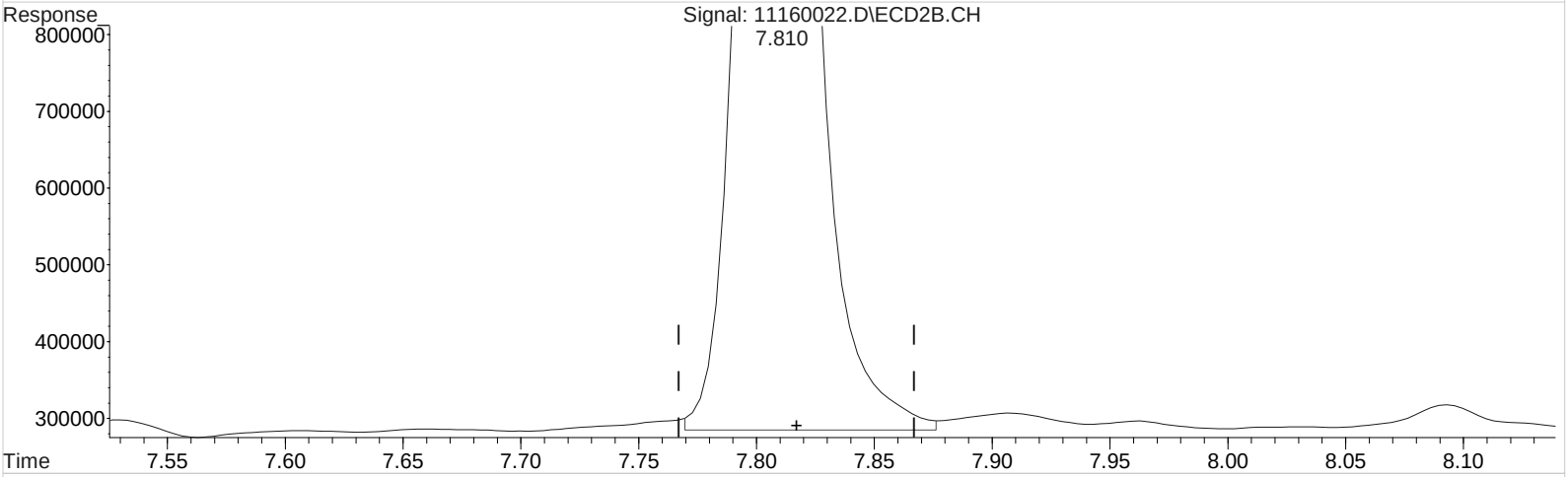
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160022.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:30 am Operator: UA
Sample : K2010070-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:32:29 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 17:31:59 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)

7.980min 75.815 ppb m

response 1379570

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.810min 88.838 ppb m

response 3757657

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160023.D\
Lab ID: K2010070-004
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 01:53:00
Batch ID: 703644
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	
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	27		20	CCV+ND	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20		
	2,4-D	23		20		

Primary Review: _____

Secondary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160023.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 01:53:00	**Vial:**	14
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-004	**Raw Units:**	ppb

Bottle ID:	K2010070-004.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1528914	4241636	84.022	100.280	84	100	84	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25 +0.01	10.10 -0.02	30865	152246	0.329	0.750 CCV	0.55U	1.2U	2.4 U	Y
2,4-D	9.39 +0.09	9.09 +0.04	20618	111366	0.971	2.175 CCV	1.6U	3.6U	7.7 U	Y

Prep Amount:	30.059 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160023.D Vial: 39
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:53 am Operator: UA
Sample : K2010070-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:34:13 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...	7.980	7.806	1528914	4241636	84.022m	100.280m	
	Target Compounds							
1) m	Dalapon	3.136	2.876	23601	494754	0.973	10.241	#
3) m	Dicamba	8.190	7.916	53145	89089	0.761	0.601	
4) m	MCPP	8.303	8.093	123699	244410	3170.677	270.459	#
5) m	MCPA	8.590	8.336	19325	256425	330.046	N.D.	#
6) m	Dichloroprop	8.953	8.743	25329	24392	1.358	0.585	#
7) m	2,4-D	9.386f	9.089	20618	111366	0.971	2.175	#
8) m	2,4,5-TP ...	10.246	10.103	30865	152246	0.329	0.750	#
9) m	2,4,5-T	10.680	10.519	23401	15170	0.284	0.079	#
10) m	2,4-DB	11.326	11.173	21622	61171	2.108	2.108	
11) m	Dinoseb	11.640	0.000	95007	0	1.536	N.D.	d#

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

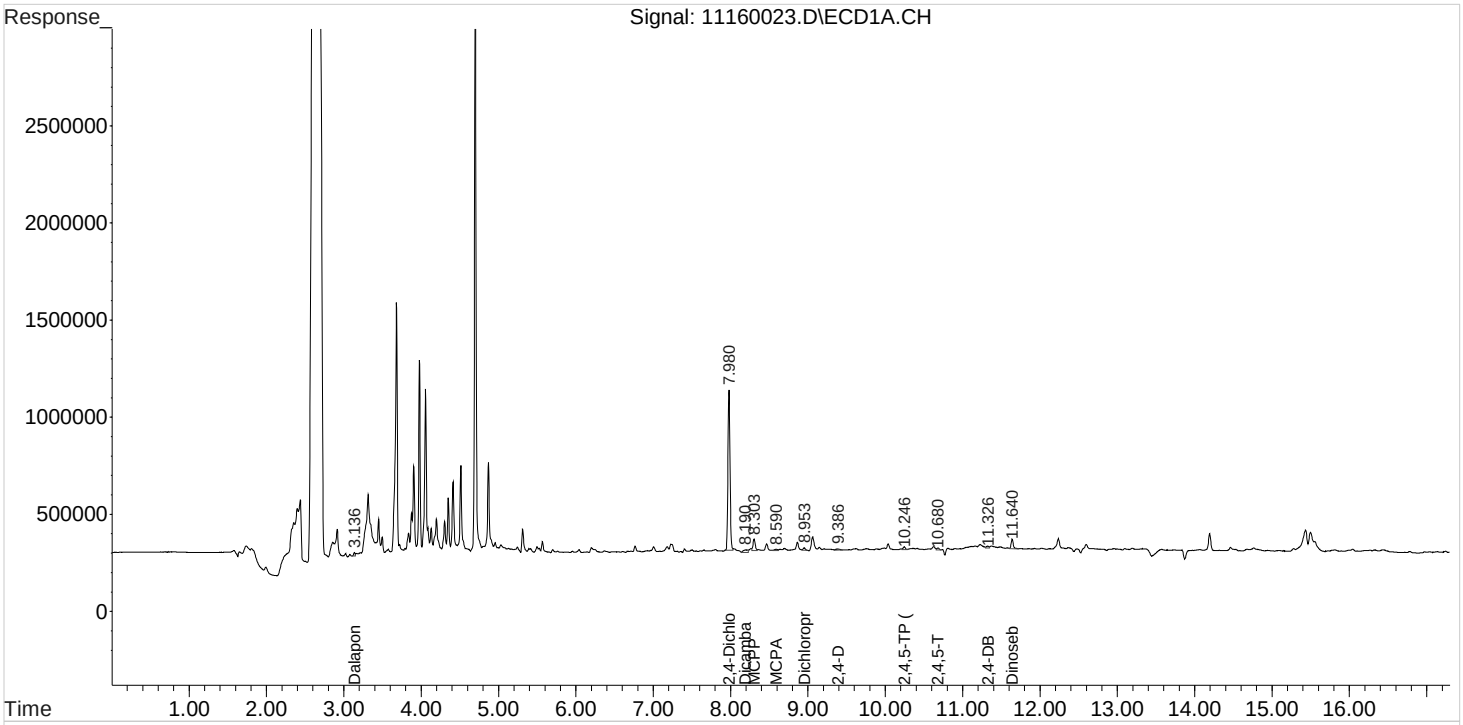
Quantitation Report (QT Reviewed)

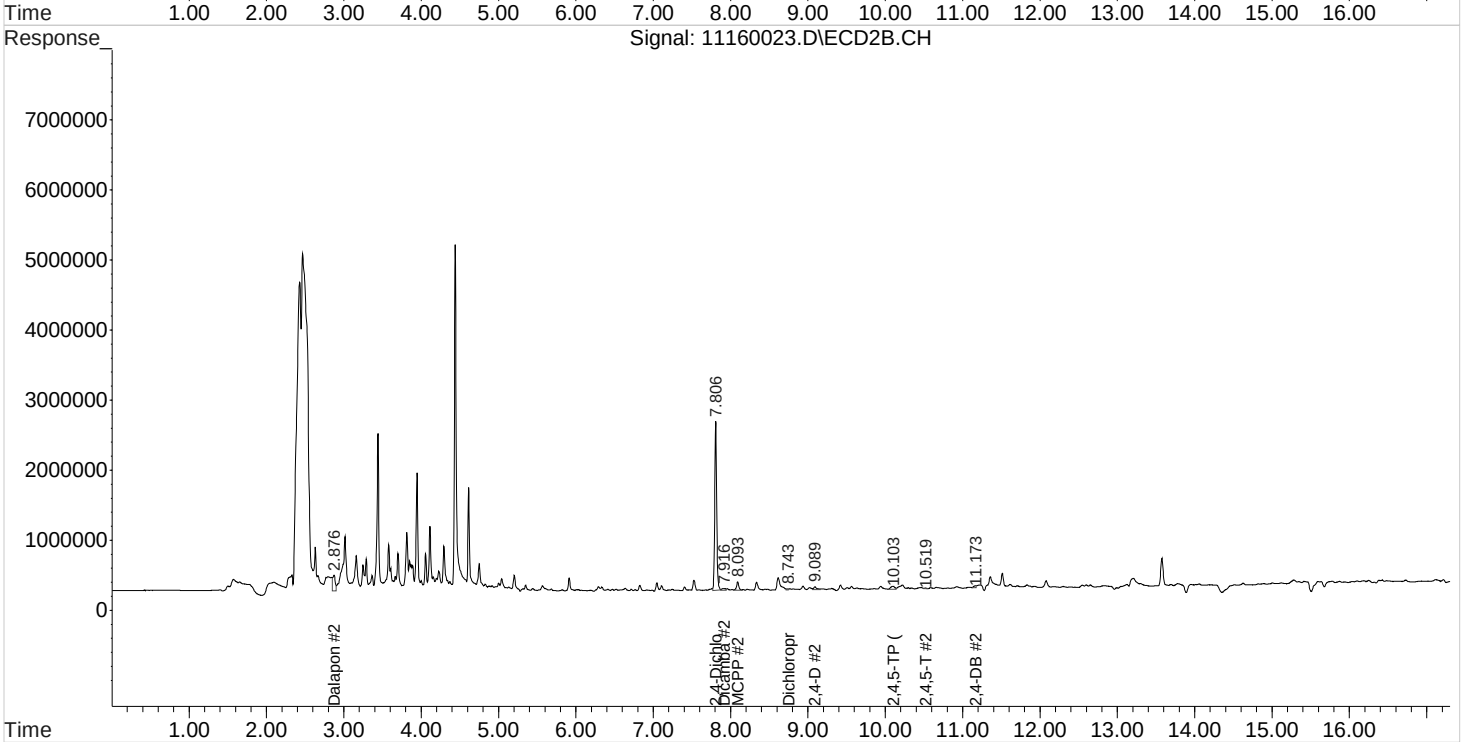
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160023.D Vial: 39
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:53 am Operator: UA
Sample : K2010070-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:34:13 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





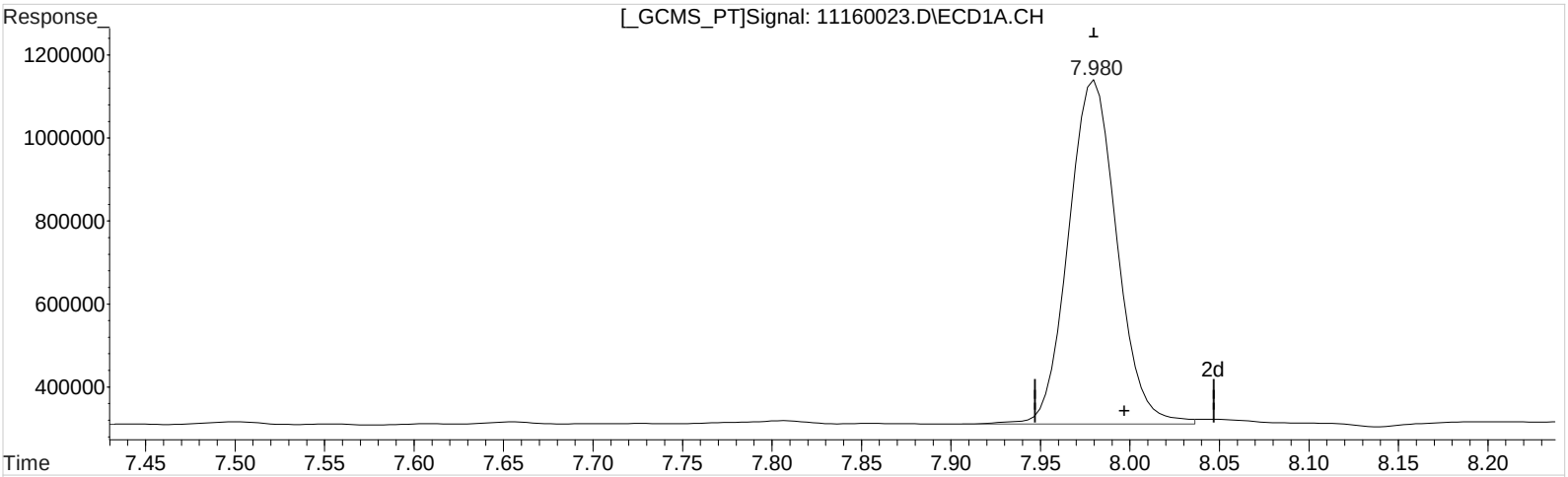
Quantitation Report (Qedit)

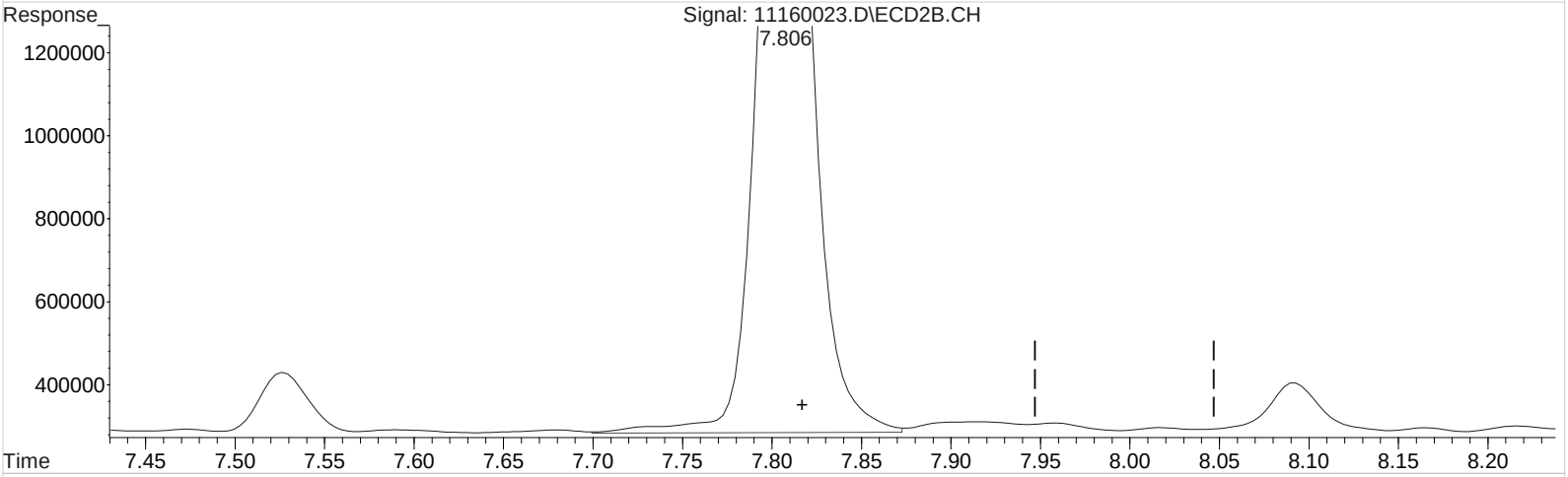
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160023.D Vial: 39
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:53 am Operator: UA
Sample : K2010070-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:33:34 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)

7.980min 85.888 ppb

response 1562879

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

7.806min 102.239 ppb

response 4324482

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

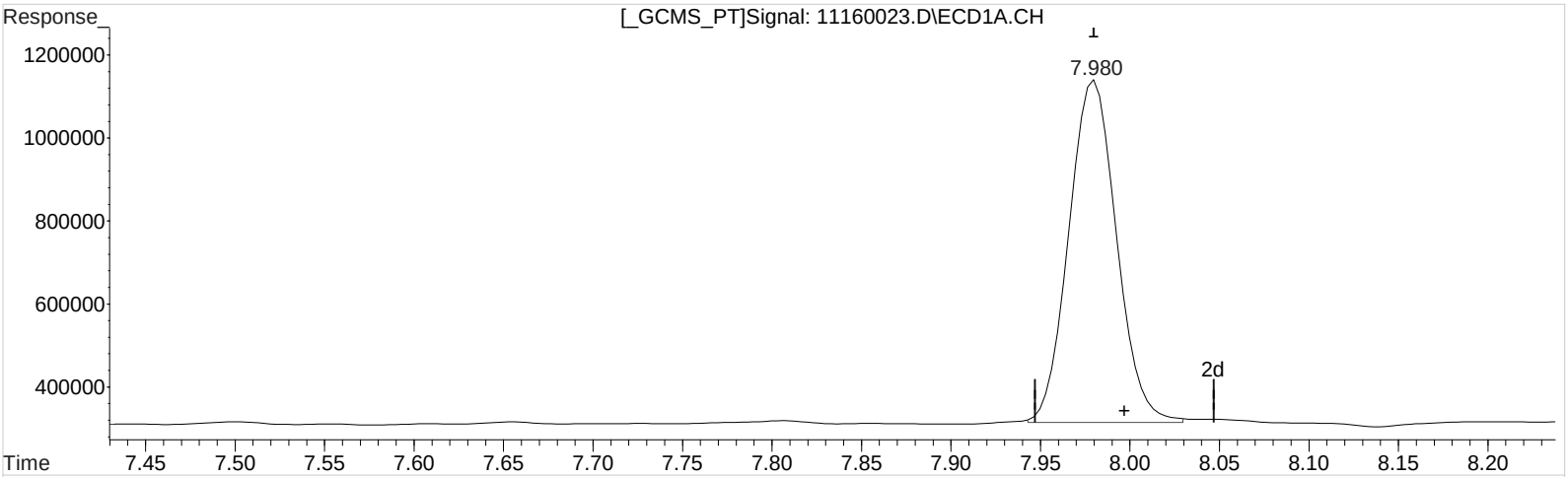
Quantitation Report (Qedit)

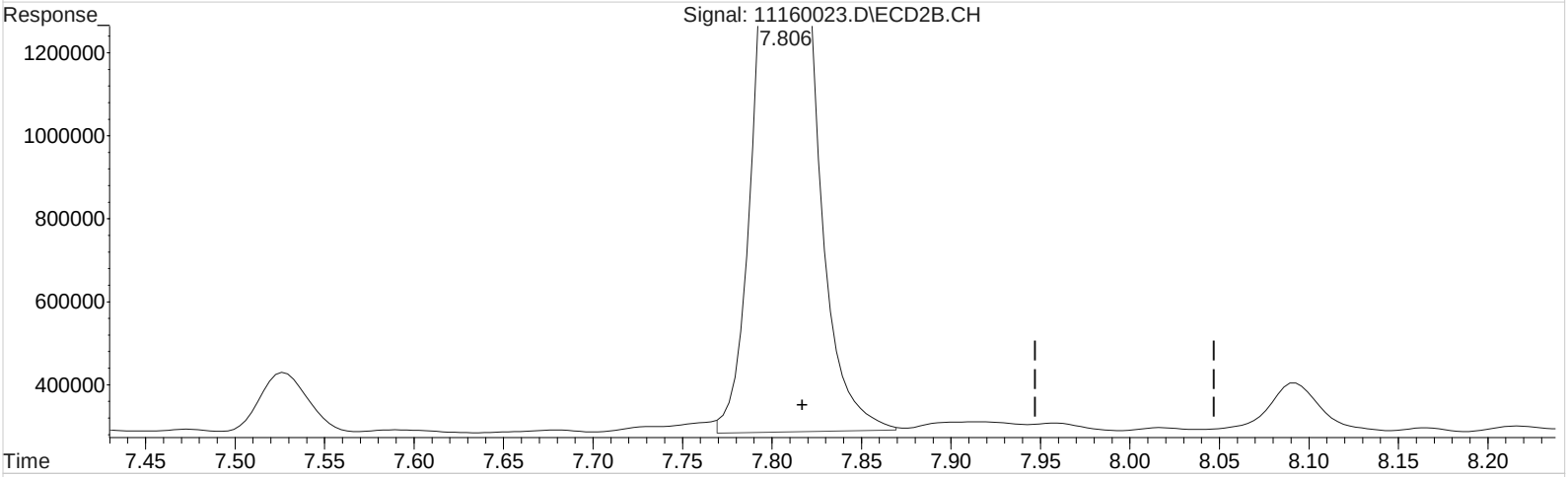
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160023.D Vial: 39
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 1:53 am Operator: UA
Sample : K2010070-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:33:34 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)

7.980min 84.022 ppb m

response 1528914

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.806min 100.280 ppb m

response 4241636

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160024.D\
Lab ID: K2010070-005
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 02:15:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160024.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 02:15:00	**Vial:**	15
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-005	**Raw Units:**	ppb

Bottle ID:	K2010070-005.02	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1535410	4267328	84.379	100.888	84	101	84	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25 +0.01	10.11 -0.01	24177	41549	0.258	0.205 CCV	0.43U	0.34U	2.4 U	Y
2,4-D	9.26 -0.04	9.02 -0.03	13017	55871	0.613	1.091 CCV	1.0U	1.8U	7.7 U	Y

Prep Amount:	30.204 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160024.D Vial: 40
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 2:15 am Operator: UA
Sample : K2010070-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:34:58 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...	7.981	7.807	1535410	4267328	84.379m	100.888m
	Target Compounds						
1) m	Dalapon	3.138	2.874	9265	302205	0.382	6.255 #
3) m	Dicamba	8.191	7.911	39762	42973	0.570	0.290 #
4) m	MCPP	8.308	8.094	39948	91038	1368.425	N.D. #
5) m	MCPA	8.604	8.334	18347	238173	313.343	N.D. #
6) m	Dichloroprop	8.954	8.801	37872	2570	2.031	0.062 #
7) m	2,4-D	9.261f	9.024	13017	55871	0.613	1.091 #
8) m	2,4,5-TP ...	10.248	10.114	24177	41549	0.258	0.205
9) m	2,4,5-T	10.684	10.521	7092	7584	0.086	0.040 #
10) m	2,4-DB	11.321	0.000	10276	0	1.002	N.D. d#
11) m	Dinoseb	11.641	0.000	96165	0	1.554	N.D. d#

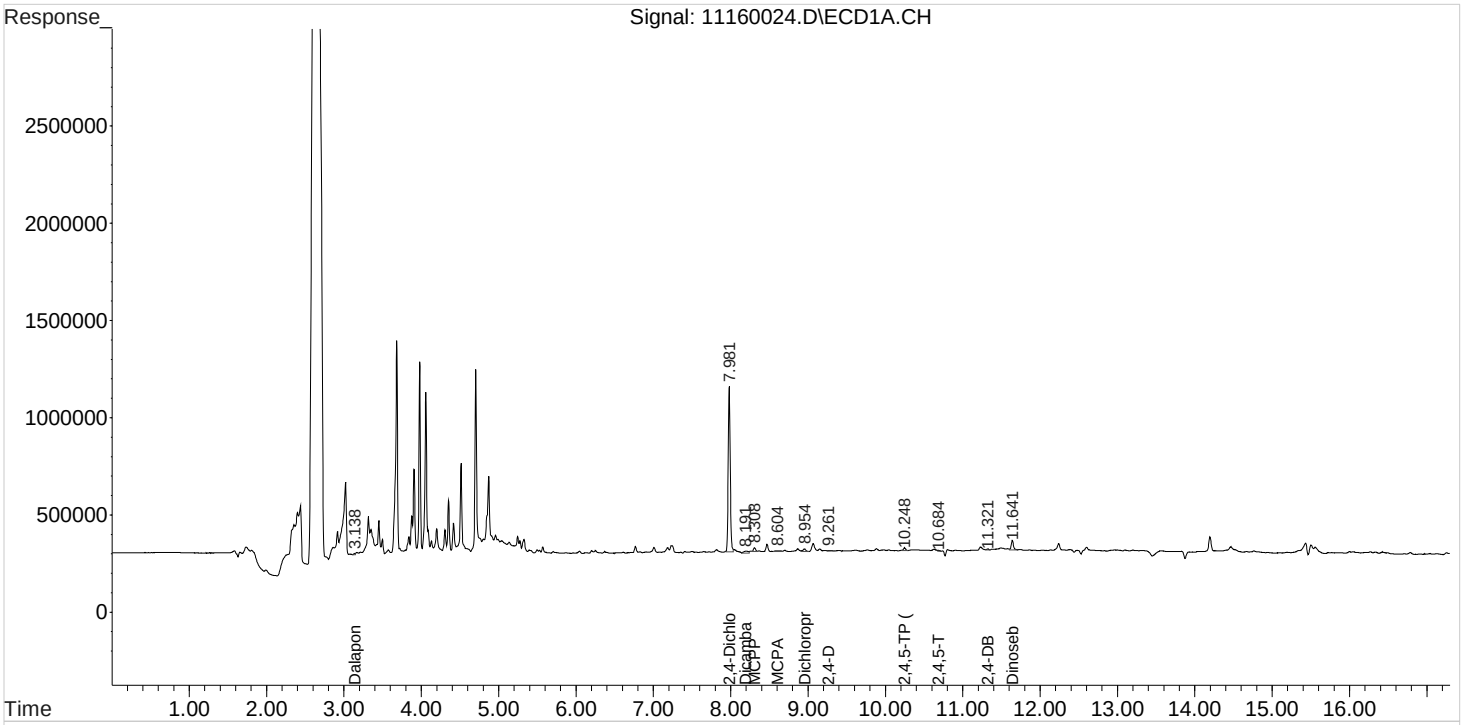
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

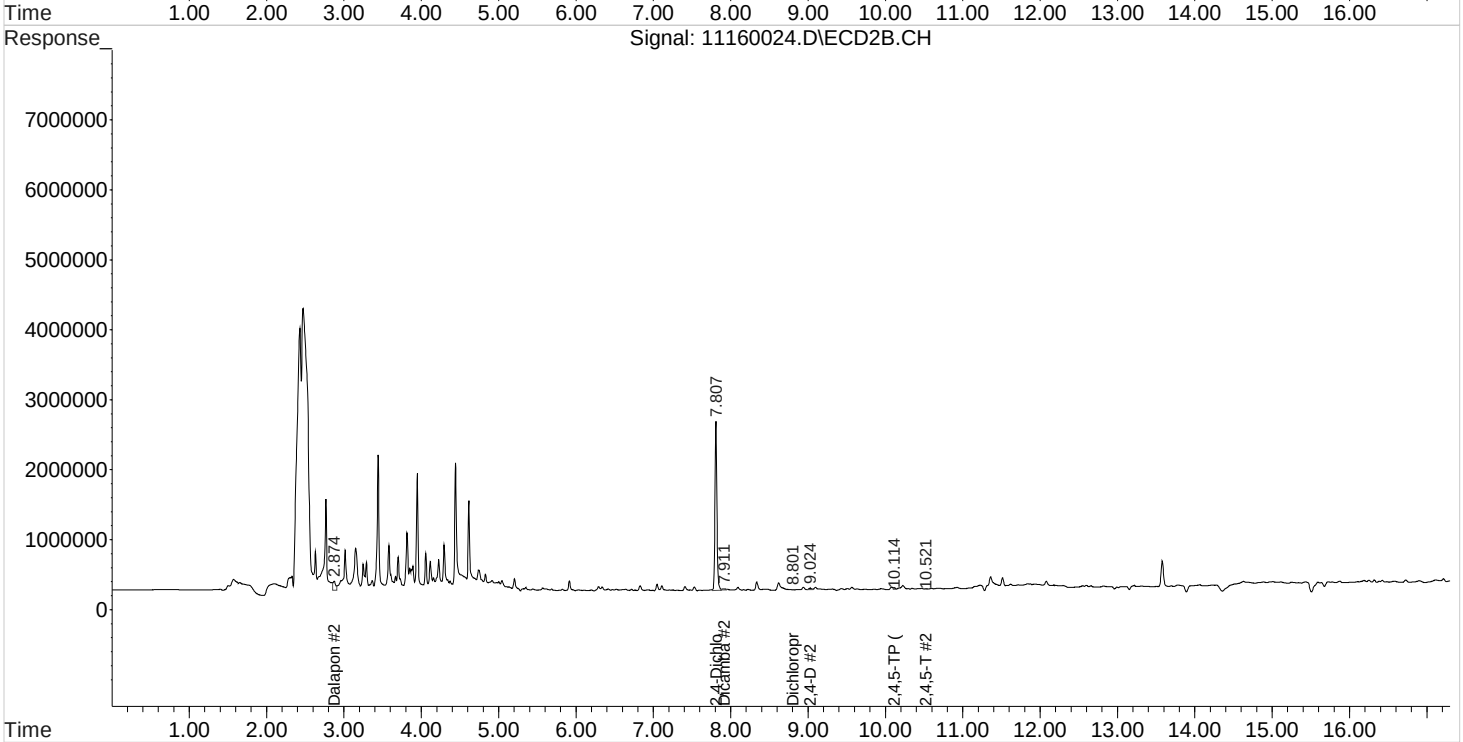
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160024.D Vial: 40
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 2:15 am Operator: UA
Sample : K2010070-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:34:58 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





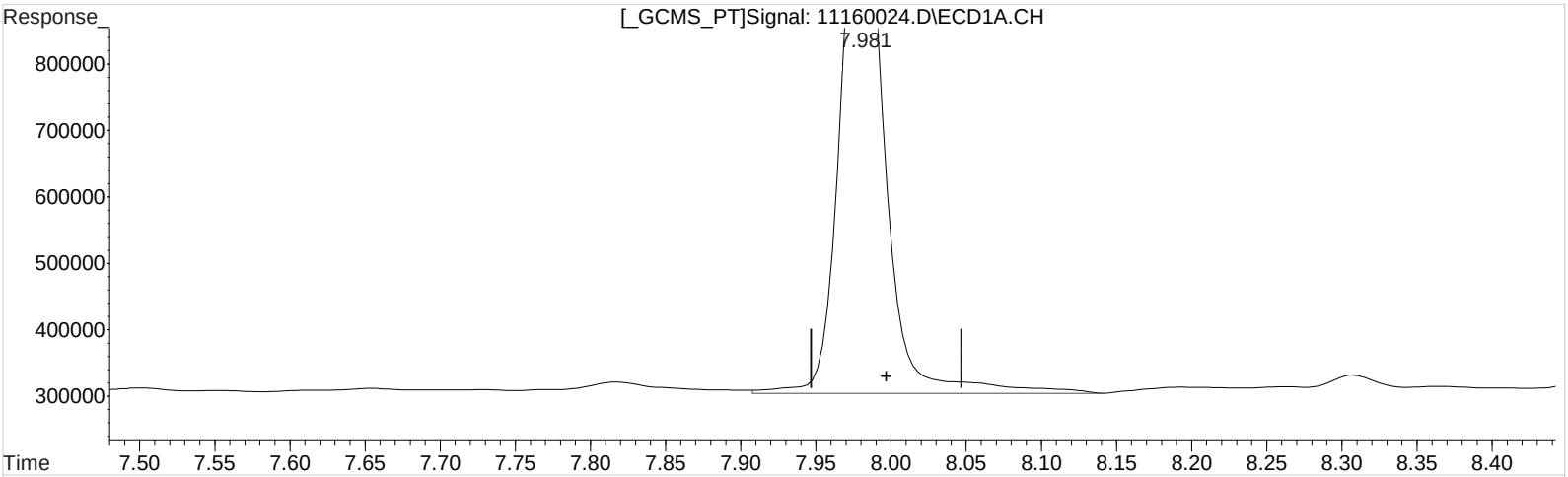
Quantitation Report (Qedit)

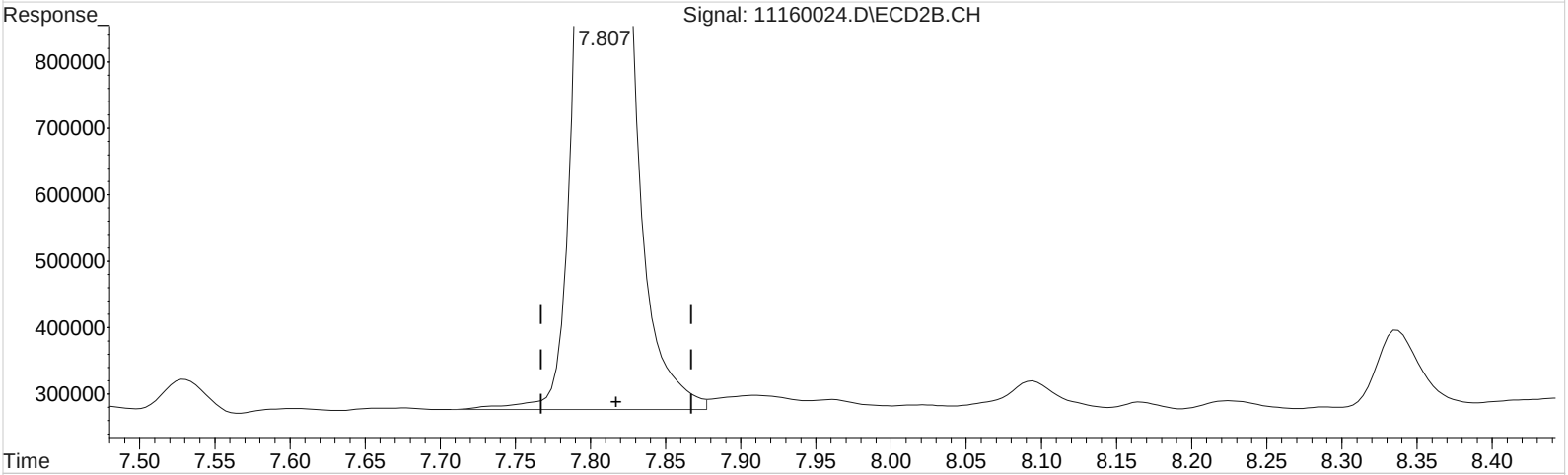
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160024.D Vial: 40
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 2:15 am Operator: UA
Sample : K2010070-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:34:20 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)

7.981min 90.335 ppb

response 1643783

Manual Integration:

Before

11/19/20

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

7.807min 101.335 ppb

response 4286237

(+) = Expected Retention Time

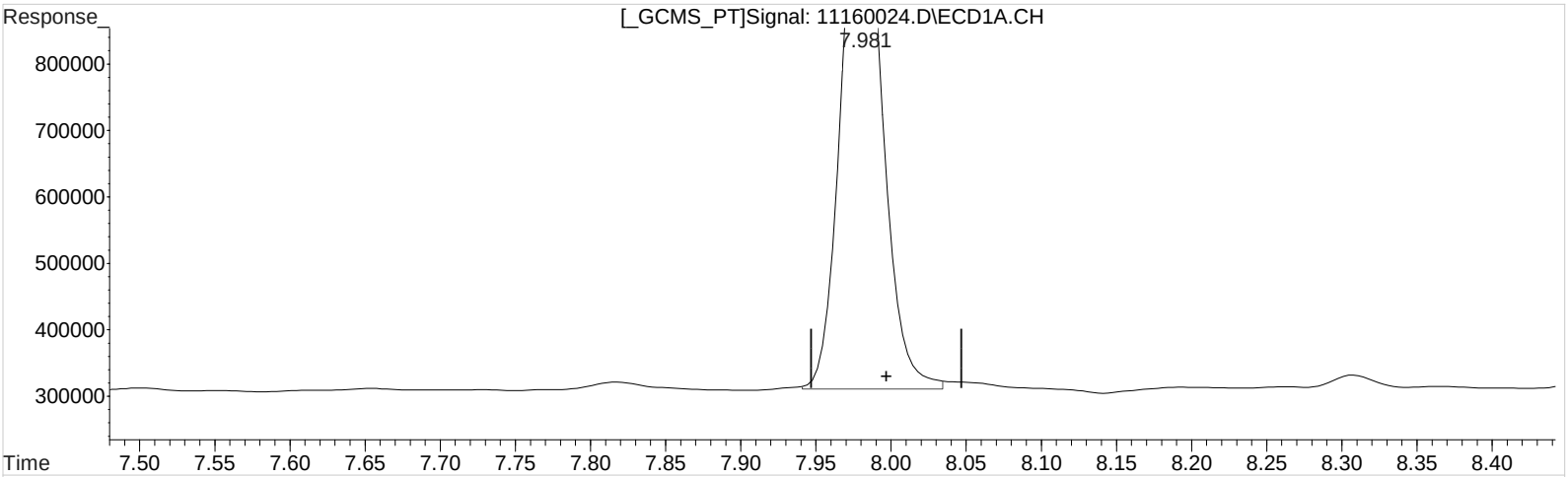
Quantitation Report (Qedit)

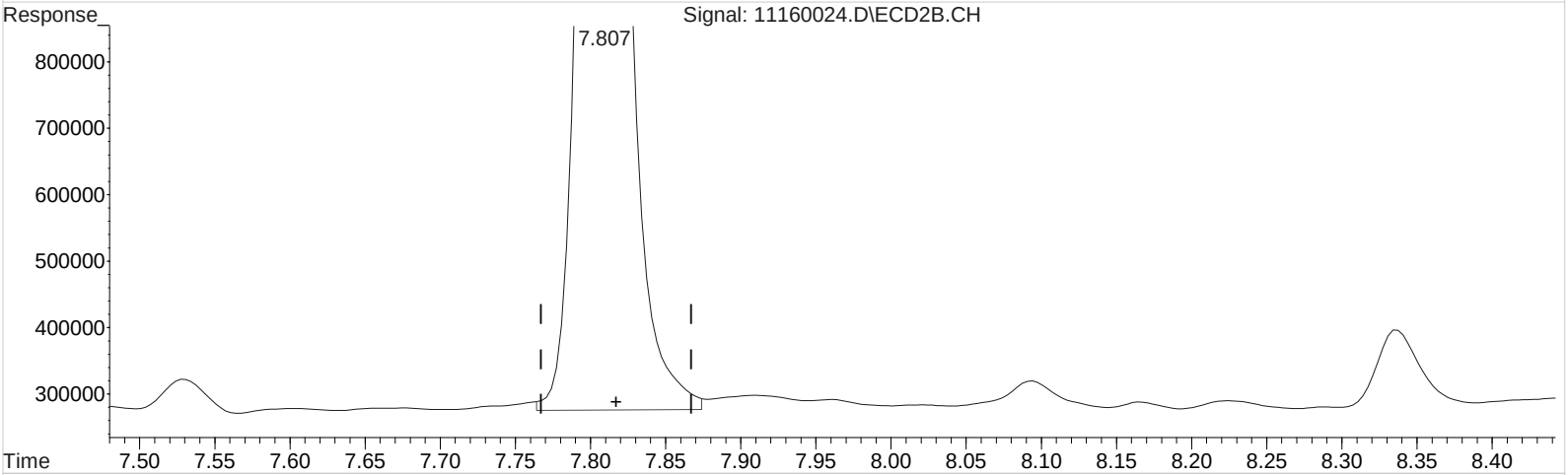
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160024.D Vial: 40
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 2:15 am Operator: UA
Sample : K2010070-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:34:20 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)

7.981min 84.379 ppb m

response 1535410

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.807min 100.888 ppb m

response 4267328

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160025.D\
Lab ID: K2010070-006
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 02:38:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160025.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 02:38:00	**Vial:**	16
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-006	**Raw Units:**	ppb

Bottle ID:	K2010070-006.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1624053	4403309	89.250	104.102	89	104	89	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	10.25 +0.01	10.12	53144	65760	0.567	0.324 CCV	0.94U	0.54U	2.4 U	Y
2,4-D	9.29 -0.01	9.02 -0.03	26878	49762	1.265	0.972 CCV	2.1U	1.6U	7.7 U	Y

Prep Amount:	30.034 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160025.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 2:38 am Operator: UA
Sample : K2010070-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:35:05 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 17:31:59 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...	7.981	7.807	1624053	4403309	89.250	104.102	
	Target Compounds							
1) m	Dalapon	3.137	2.874	13969	74354	0.576	1.539	#
3) m	Dicamba	8.201	7.907	17289	87432	0.248	0.590	#
4) m	MCPP	8.307	8.094	54301	99592	1677.289	N.D.	#
5) m	MCPA	8.581	8.337	17783	249246	303.710	N.D.	#
6) m	Dichloroprop	8.954	8.774	34034	26135	1.825	0.627	#
7) m	2,4-D	9.287	9.024	26878	49762	1.265	0.972	
8) m	2,4,5-TP ...	10.247	10.117	53144	65760	0.567	0.324	#
9) m	2,4,5-T	10.691	10.524	13902	37378	0.168	0.195	
10) m	2,4-DB	11.321	11.164	26864	50246	2.618	1.732	#
11) m	Dinoseb	11.641	11.314	98059	147548	1.585	1.079	#

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

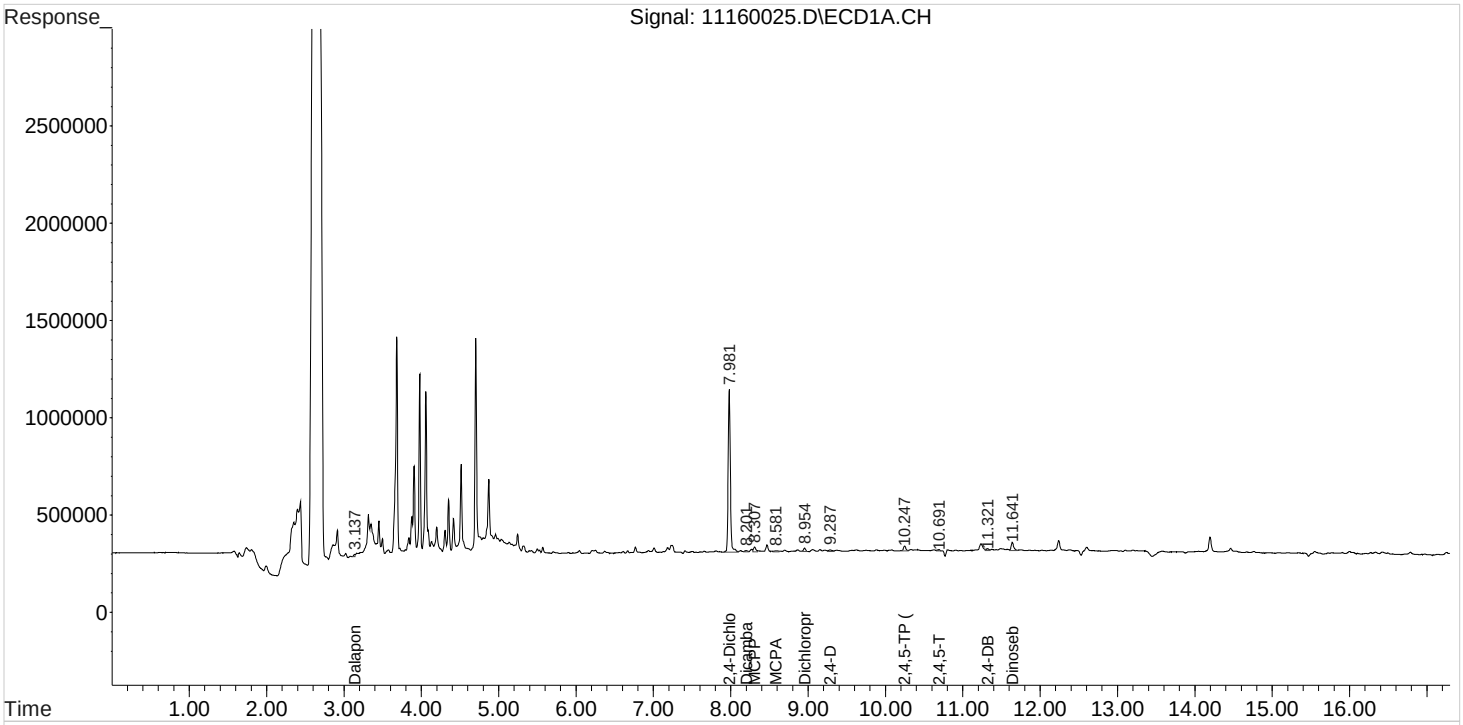
Quantitation Report (QT Reviewed)

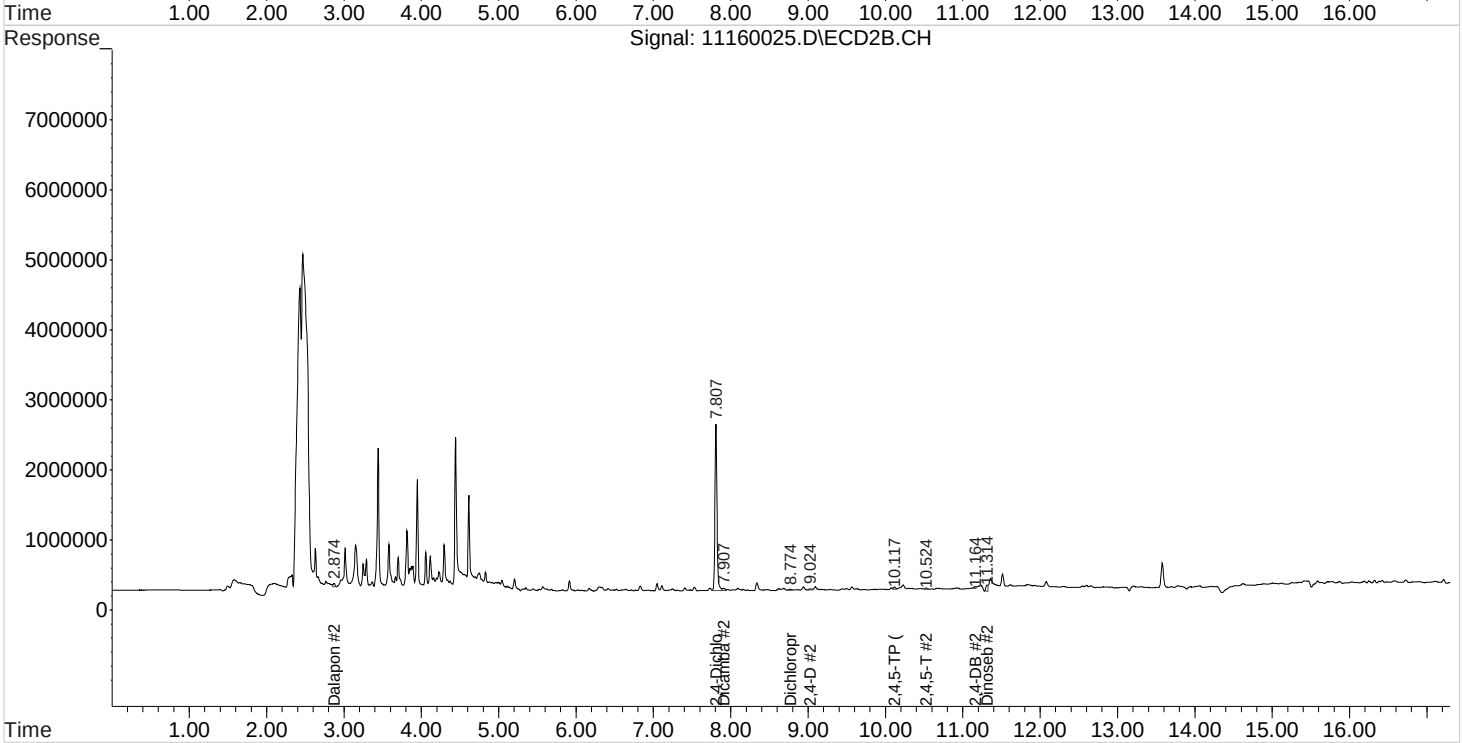
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160025.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 2:38 am Operator: UA
Sample : K2010070-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:35:05 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 17:31:59 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 UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160026.D\
Lab ID: K2010070-007
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 03:01:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160026.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 03:01:00	**Vial:**	17
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-007	**Raw Units:**	ppb

Bottle ID:	K2010070-007.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1542282	4316796	84.757	102.057	85	102	85	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	10.25 +0.01	10.08 -0.04	23215	50955	0.248	0.251 CCV	0.41U	0.42U	2.4 U	Y
2,4-D	9.28 -0.02	9.02 -0.03	13900	52841	0.654	1.032 CCV	1.1U	1.7U	7.7 U	Y

Prep Amount:	30.001 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160026.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:01 am Operator: UA
Sample : K2010070-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:37:52 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...	7.981	7.807	1542282	4316796	84.757m	102.057m
	Target Compounds						
1) m	Dalapon	3.140	2.877	12059	156864	0.497	3.247 #
3) m	Dicamba	8.197	7.904	60296	55087	0.864	0.372 #
4) m	MCPP	8.307	8.094	27326	74281	1096.810	N.D. #
5) m	MCPA	8.550	8.337	2067	238971	35.302	N.D. #
6) m	Dichloroprop	8.954	8.767	30508	3413	1.636	0.082 #
7) m	2,4-D	9.281	9.024	13900	52841	0.654	1.032 #
8) m	2,4,5-TP ...	10.247	10.077f	23215	50955	0.248m	0.251m
9) m	2,4,5-T	10.691	10.520	4895	9447	0.059	0.049
10) m	2,4-DB	11.324	0.000	23485	0	2.289	N.D. d#
11) m	Dinoseb	11.640	0.000	91626	0	1.481	N.D. d#

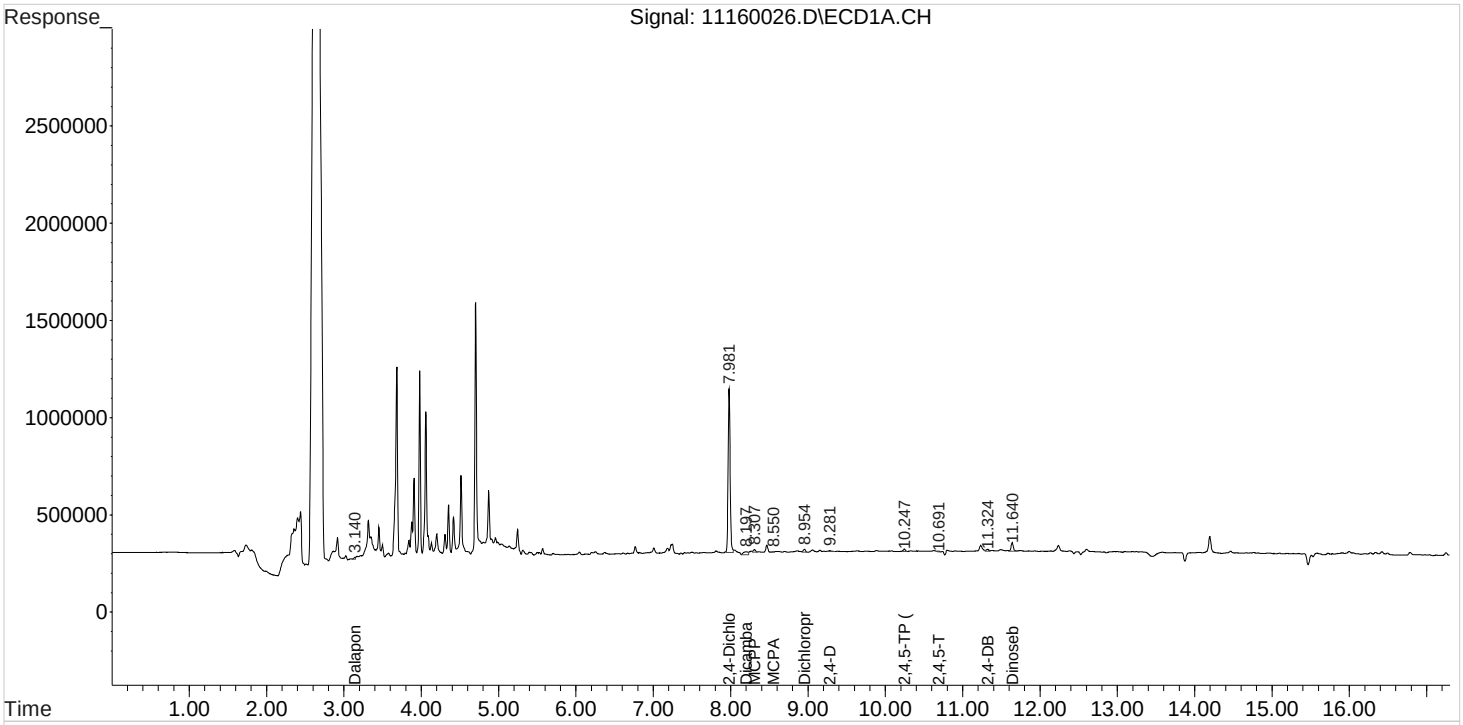
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

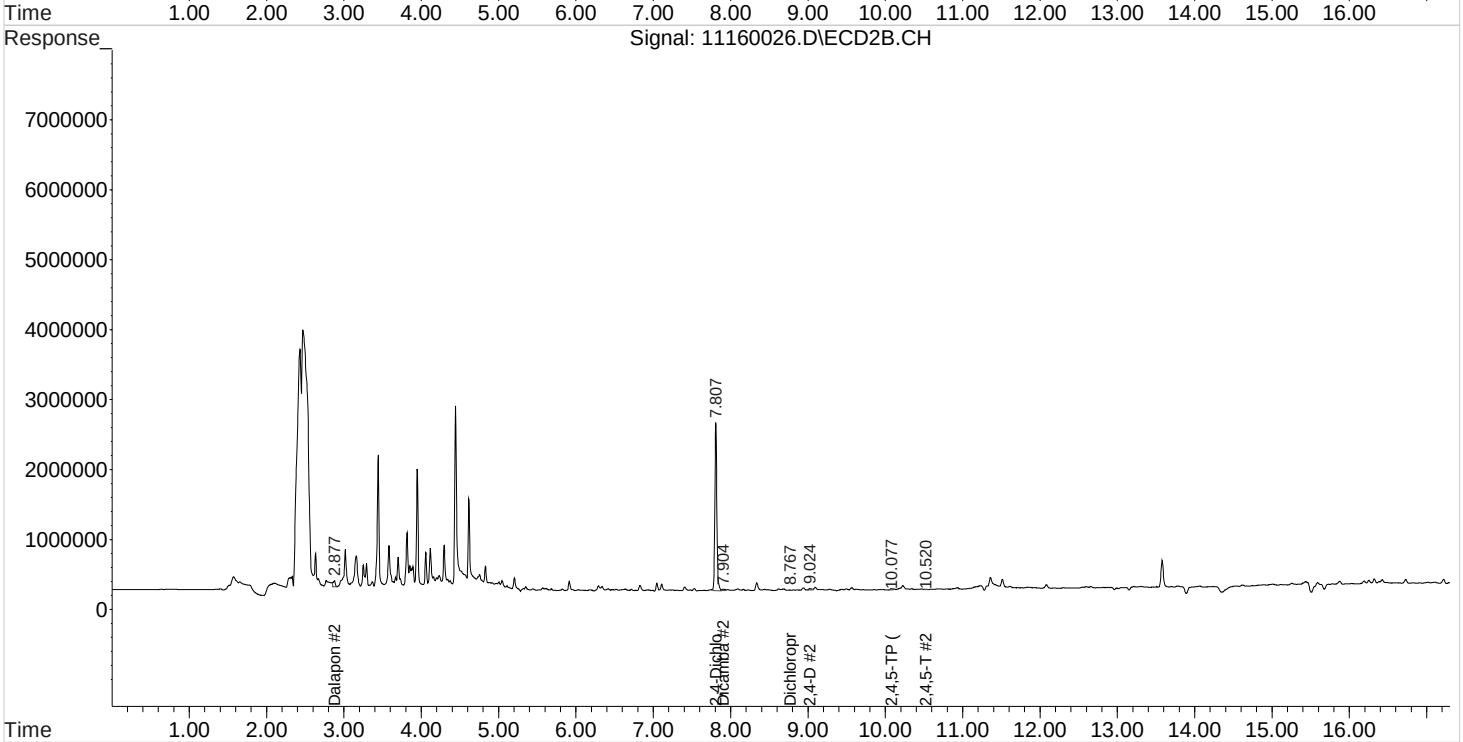
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160026.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:01 am Operator: UA
Sample : K2010070-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:37:52 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





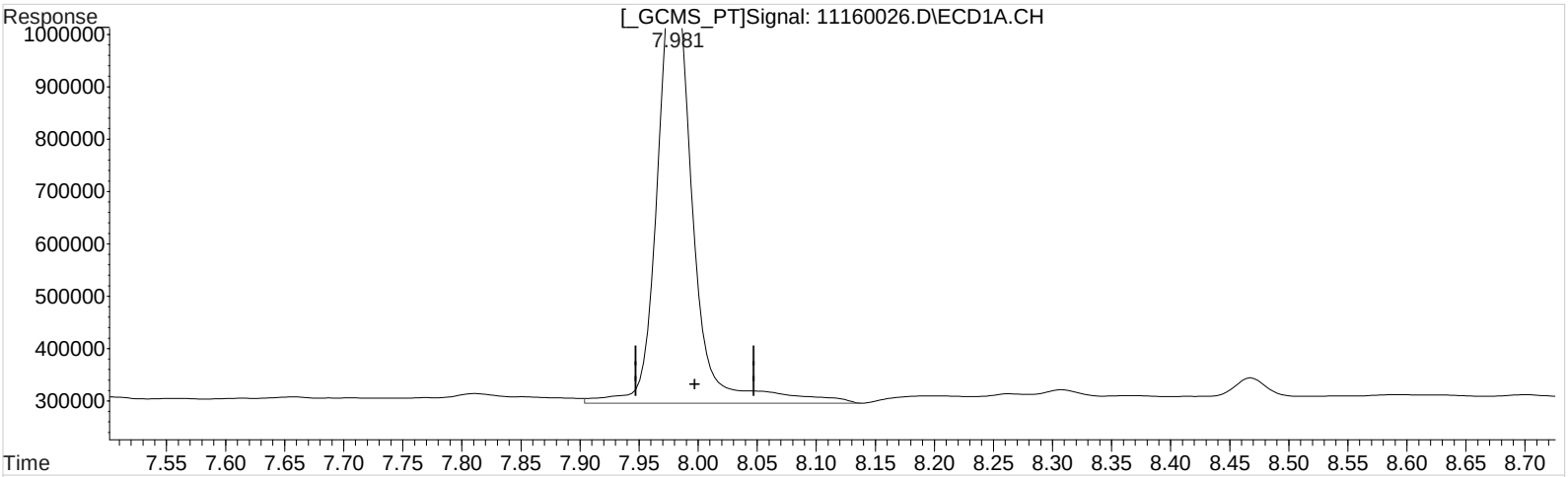
Quantitation Report (Qedit)

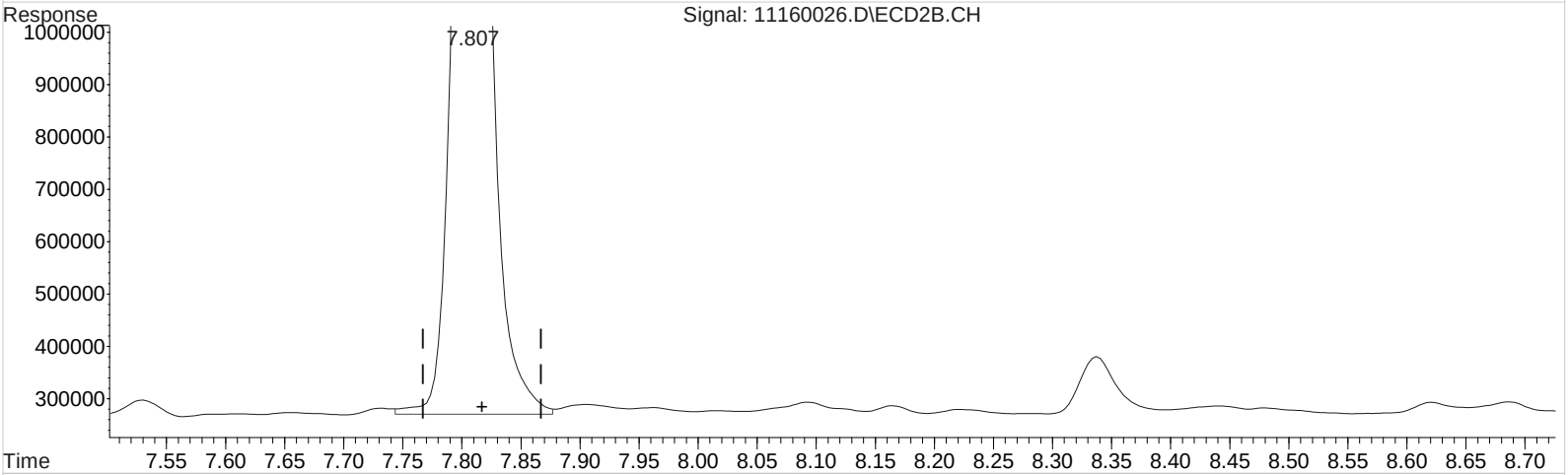
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160026.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:01 am Operator: UA
Sample : K2010070-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:35:25 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





QEdit

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

7.981min 94.271 ppb

response 1715407

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

7.807min 102.213 ppb

response 4323399

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

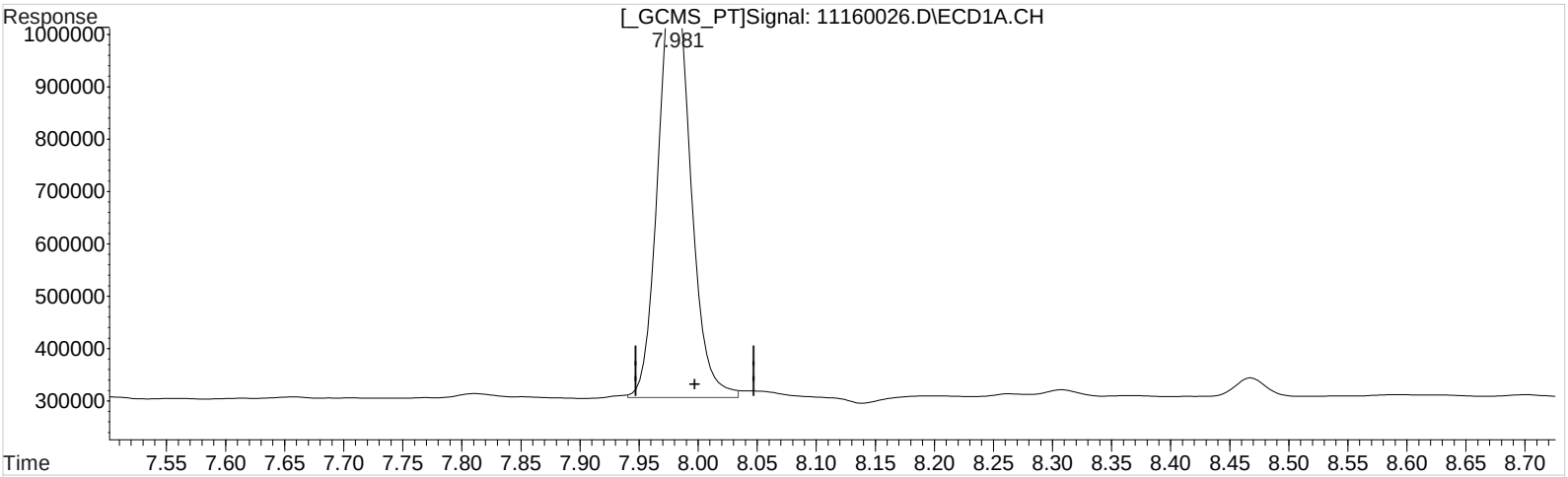
Quantitation Report (Qedit)

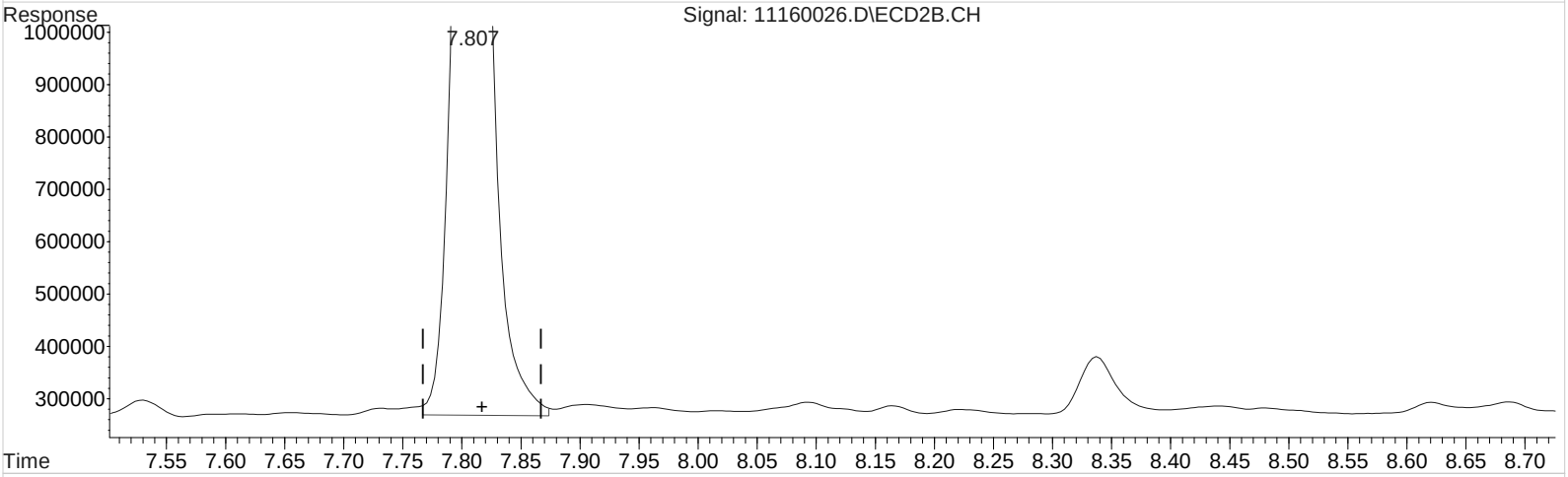
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160026.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:01 am Operator: UA
Sample : K2010070-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:35:25 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





QEdit

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

7.981min 84.757 ppb m

response 1542282

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.807min 102.057 ppb m

response 4316796

(+) = Expected Retention Time

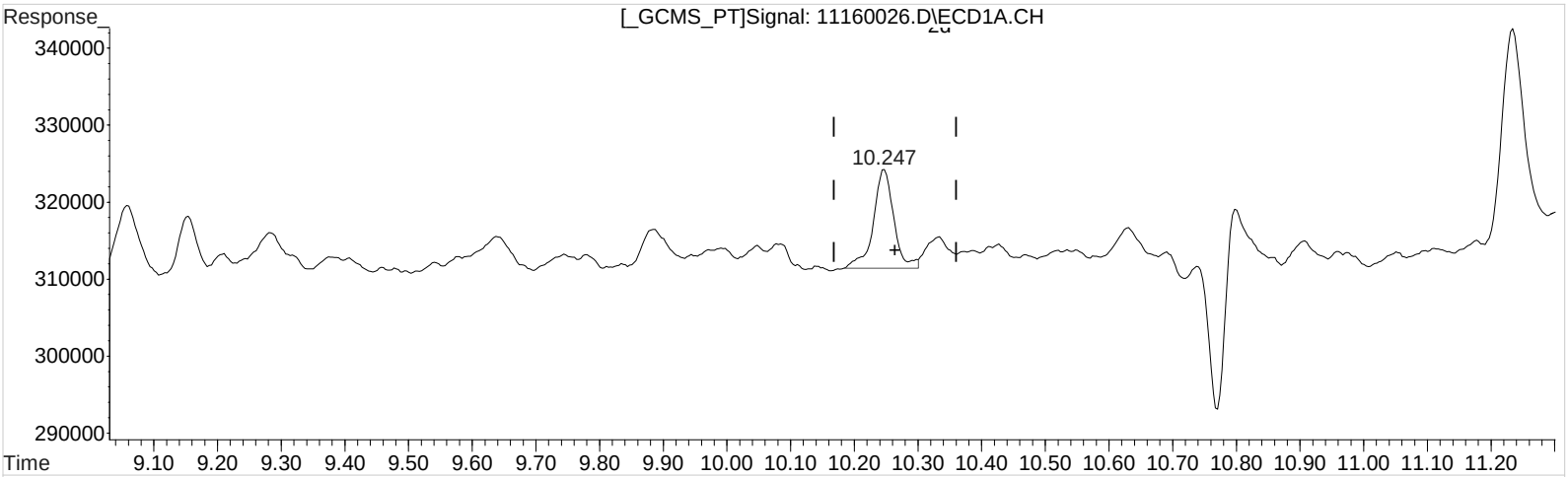
Quantitation Report (Qedit)

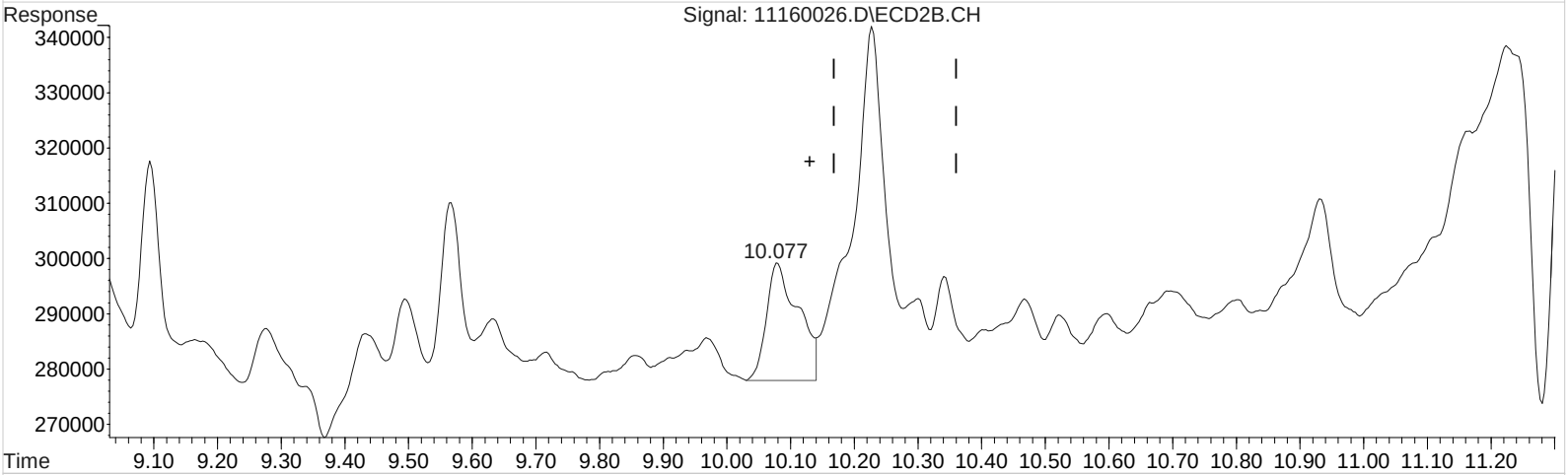
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160026.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:01 am Operator: UA
Sample : K2010070-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:35:25 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





QEdit

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

10.247min 0.307 ppb

response 28770

Manual Integration:

Before

11/19/20

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

10.077min 0.369 ppb

response 74908

(+) = Expected Retention Time

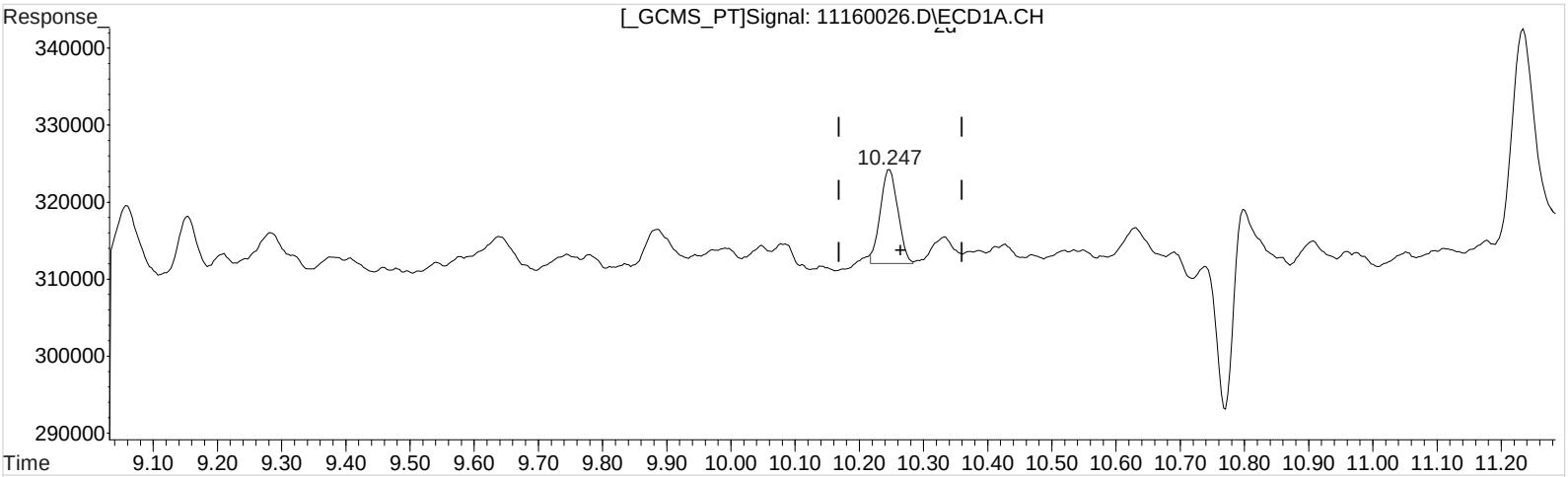
Quantitation Report (Qedit)

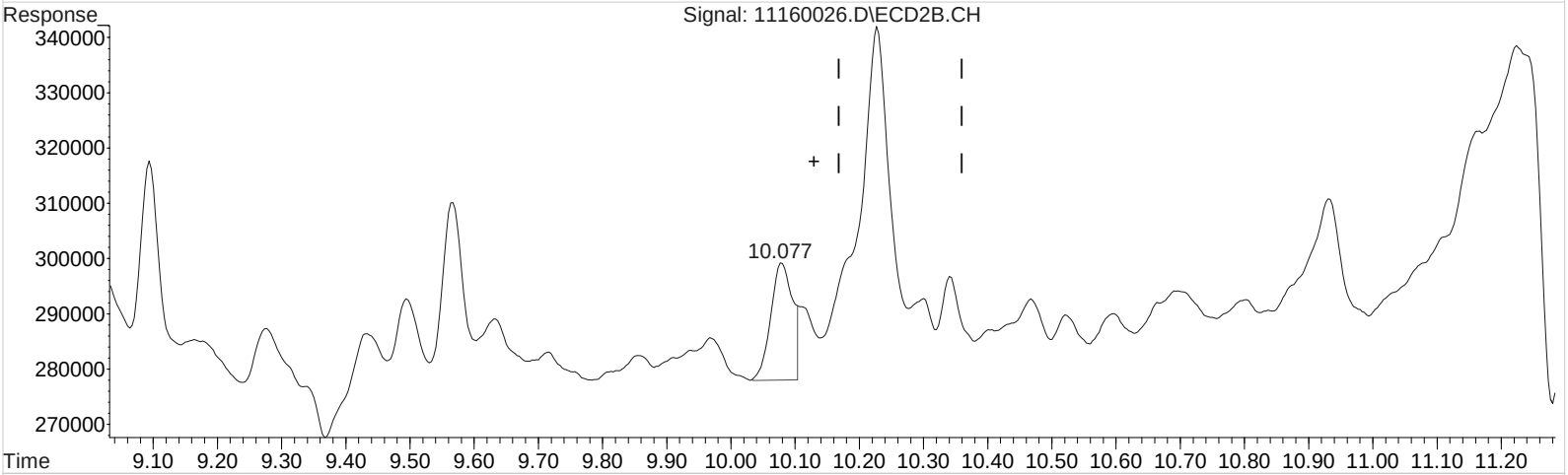
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160026.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:01 am Operator: UA
Sample : K2010070-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:35:25 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





QEdit

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

10.247min 0.248 ppb m

response 23215

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

10.077min 0.251 ppb m

response 50955

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160027.D\
Lab ID: K2010070-008
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 03:24:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160027.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 03:24:00	**Vial:**	18
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-008	**Raw Units:**	ppb

Bottle ID:	K2010070-008.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.80 -0.01	1572341	4241211	86.408	100.270	86	100	86	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	10.24	10.11 -0.01	26813	49206	0.286	0.242 CCV	0.48U	0.40U	2.4 U	Y
2,4-D	0.00	9.09 +0.04	0	116856	0.000	2.282 CCV	0U	3.8U	7.7 U	Y

Prep Amount:	30.025 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160027.D Vial: 43
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:24 am Operator: UA
Sample : K2010070-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:39:01 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...	7.978	7.805	1572341	4241211	86.408	100.270	
	Target Compounds							
1) m	Dalapon	3.138	2.875	104415	55395	4.304	1.147	#
3) m	Dicamba	8.192	7.901	24140	21526	0.346	0.145	#
4) m	MCPP	8.305	8.091	32536	102838	1208.924	N.D.	#
5) m	MCPA	8.582	8.335	6648	235955	113.539	N.D.	#
6) m	Dichloroprop	8.955	8.771	31486	32906	1.688	0.789	#
7) m	2,4-D	0.000	9.091	0	116856	N.D. d	2.282	
8) m	2,4,5-TP ...	10.245	10.111	26813	49206	0.286	0.242	
9) m	2,4,5-T	10.688	10.521	8042	7820	0.097	0.041	#
10) m	2,4-DB	11.325	11.161	14602	63248	1.423	2.180	#
11) m	Dinoseb	11.638	0.000	82384	0	1.332	N.D.	d#

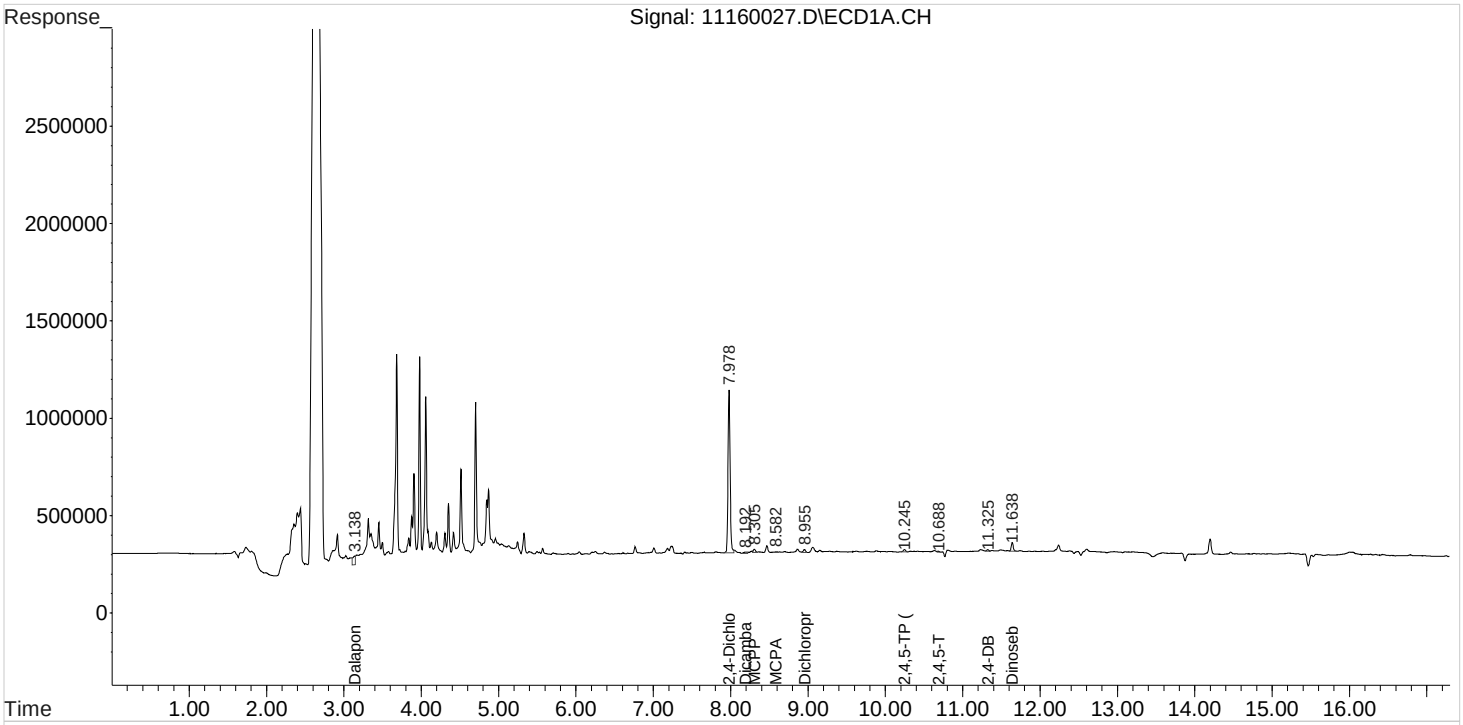
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

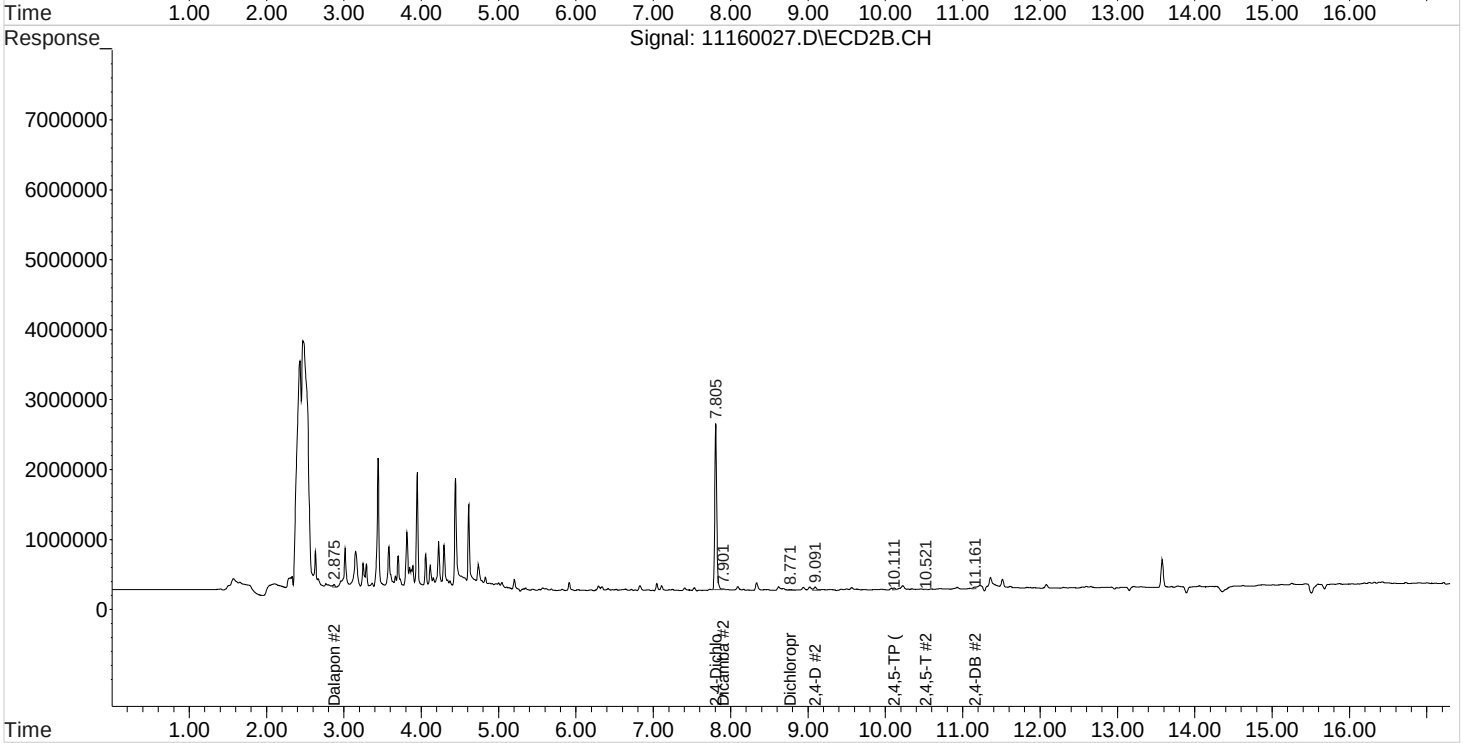
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160027.D Vial: 43
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:24 am Operator: UA
Sample : K2010070-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:39:01 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 UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160030.D\
Lab ID: K2010070-009
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 04:33:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	31		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	30		20	
	2,4-D	23		20	

Primary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160030.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 04:33:00	**Vial:**	19
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-009	**Raw Units:**	ppb

Bottle ID:	K2010070-009.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1588390	4285997	87.290	101.329	87	101	87	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	10.25 +0.01	10.12	39845	29115	0.425	0.143 CCV	0.71U	0.24U	2.4 U	Y
2,4-D	9.27 -0.03	9.03 -0.02	6188	73114	0.291	1.428 CCV	0.48U	2.4U	7.7 U	Y

Prep Amount:	30.057 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160030.D Vial: 44
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:33 am Operator: UA
Sample : K2010070-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:42:31 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 17:31:59 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...	7.982	7.808	1588390	4285997	87.290m	101.329m
	Target Compounds						
1) m	Dalapon	3.139	2.875	55647	126853	2.294	2.626
3) m	Dicamba	8.205	7.905	23467	47200	0.336	0.318
4) m	MCPP	8.309	8.092	21341	49431	968.017	N.D. #
5) m	MCPA	8.542	8.335	1975	191694	33.730	N.D. #
6) m	Dichloroprop	8.955	8.682f	30685	28342	1.646	0.679 #
7) m	2,4-D	9.272f	9.025	6188	73114	0.291	1.428 #
8) m	2,4,5-TP ...	10.249	10.115	39845	29115	0.425m	0.143 #
9) m	2,4,5-T	10.685	10.522	8745	5643	0.106	0.029 #
10) m	2,4-DB	11.252	0.000	1501	0	0.146	N.D. d#
11) m	Dinoseb	11.642	0.000	77982	0	1.260	N.D. d#

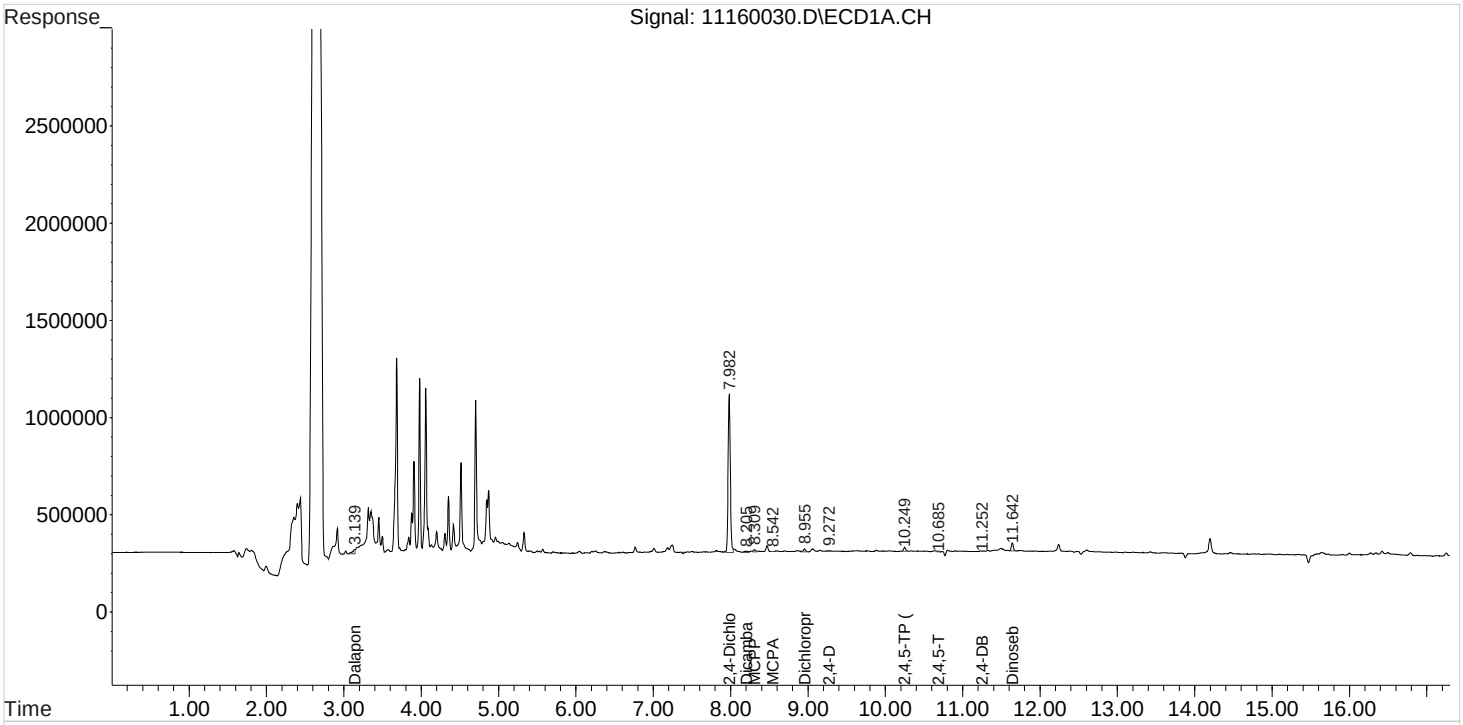
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

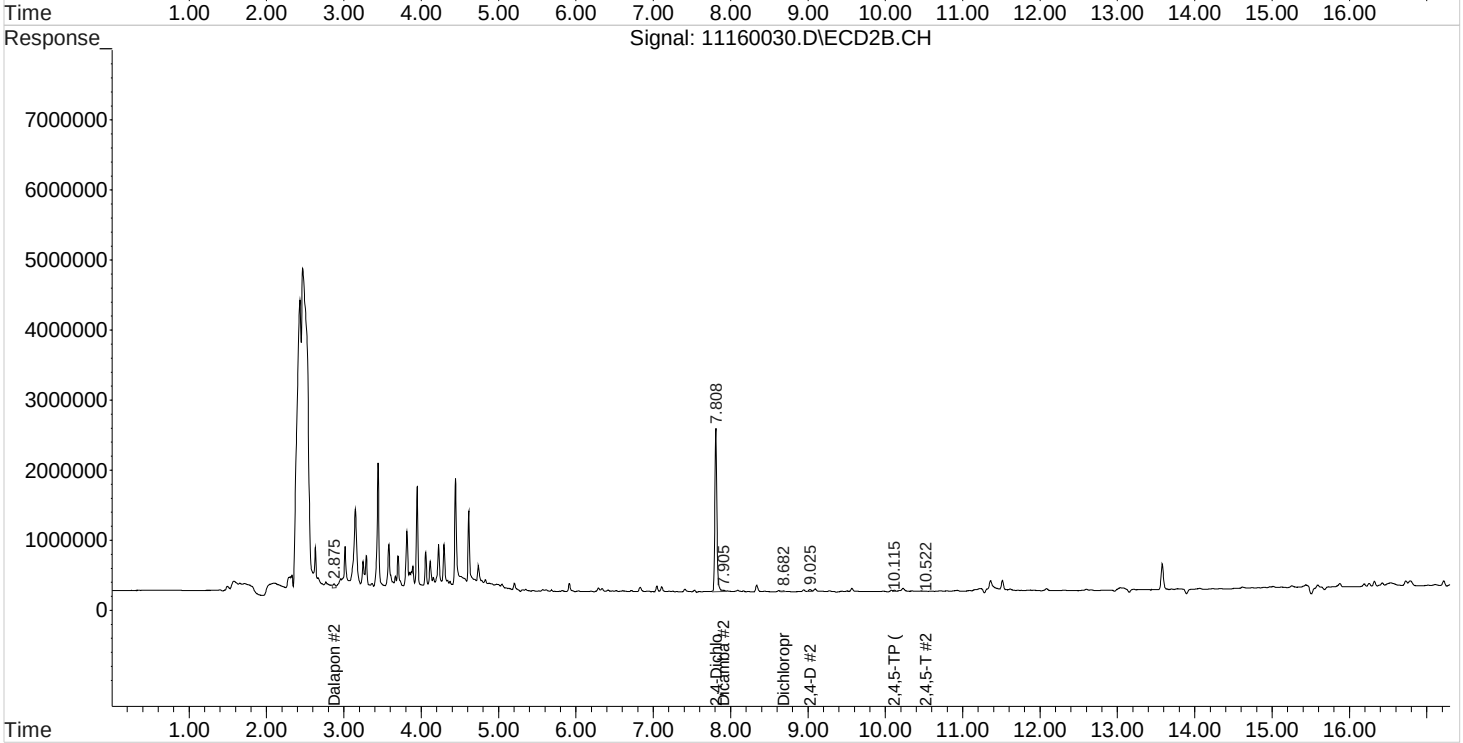
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160030.D Vial: 44
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:33 am Operator: UA
Sample : K2010070-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:42:31 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 17:31:59 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





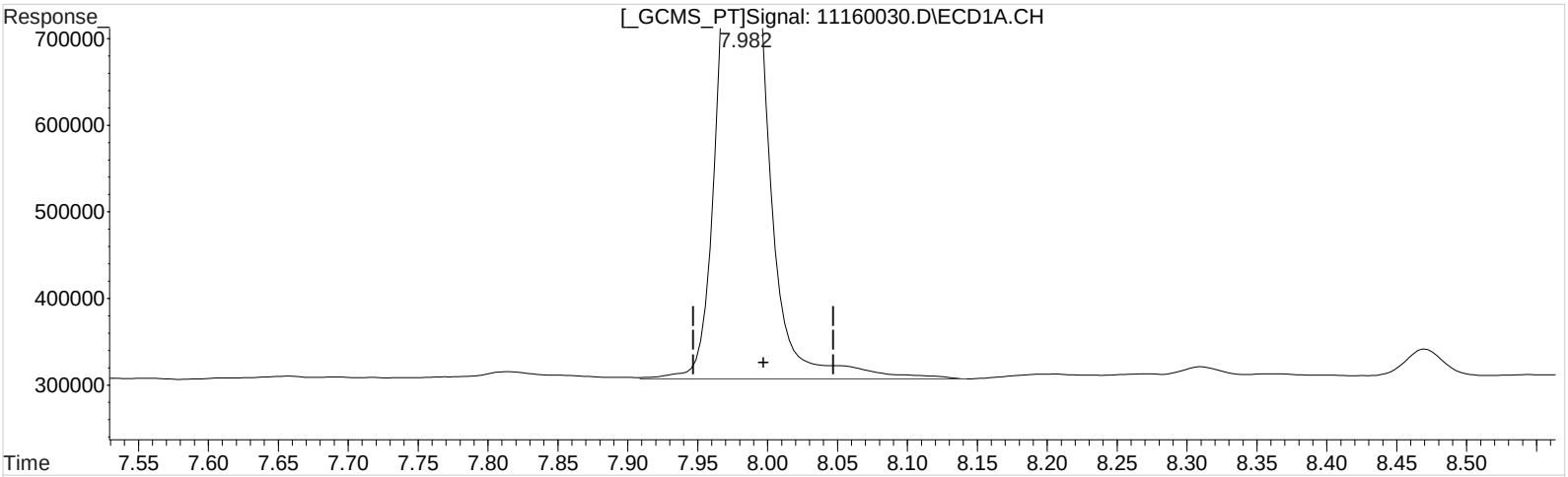
Quantitation Report (Qedit)

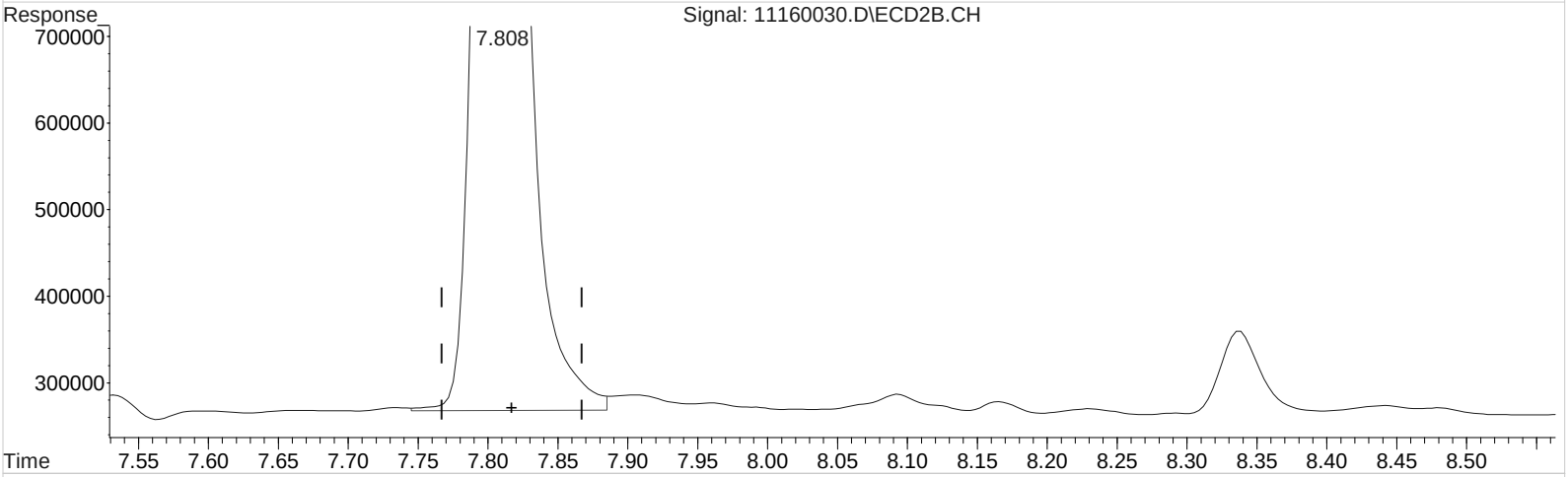
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160030.D Vial: 44
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:33 am Operator: UA
Sample : K2010070-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:41:32 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 17:31:59 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)

7.982min 90.332 ppb

response 1643743

Manual Integration:

Before

11/19/20

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

7.808min 101.308 ppb

response 4285118

(+) = Expected Retention Time

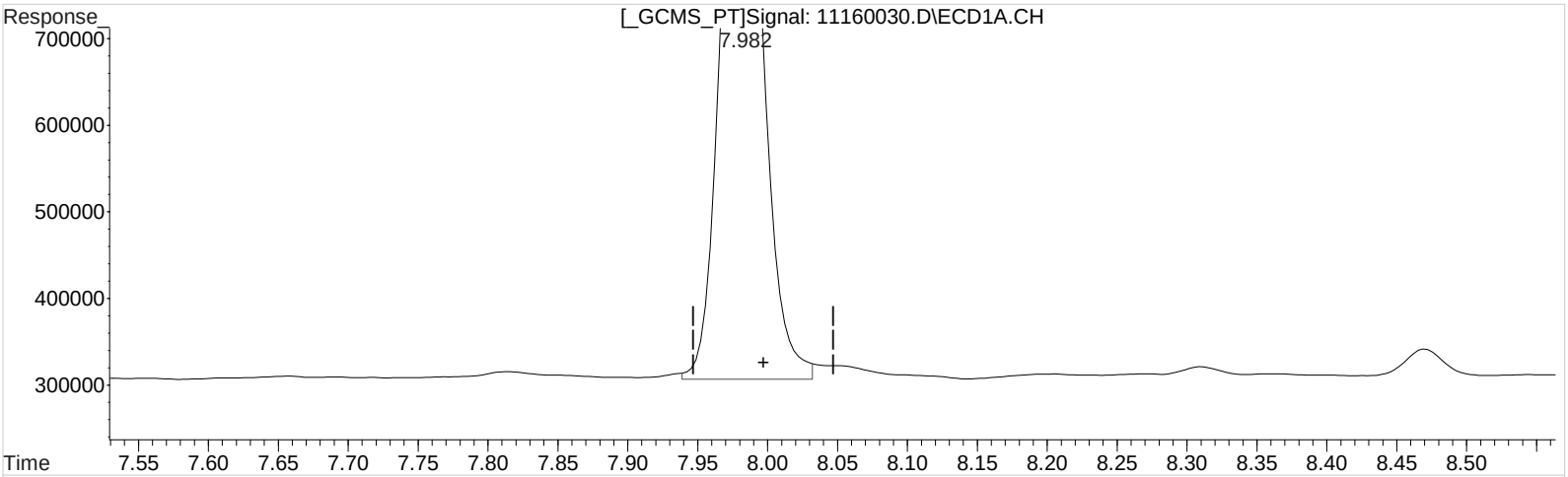
Quantitation Report (Qedit)

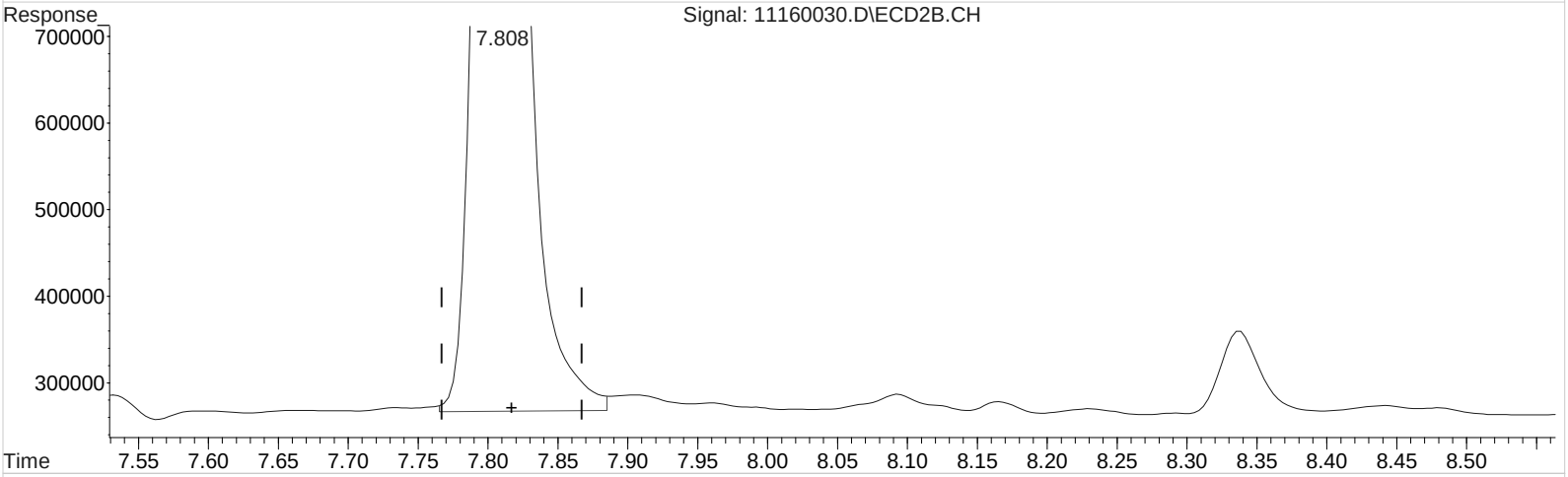
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160030.D Vial: 44
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:33 am Operator: UA
Sample : K2010070-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:41:32 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 17:31:59 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)

7.982min 87.290 ppb m

response 1588390

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.808min 101.329 ppb m

response 4285997

(+) = Expected Retention Time

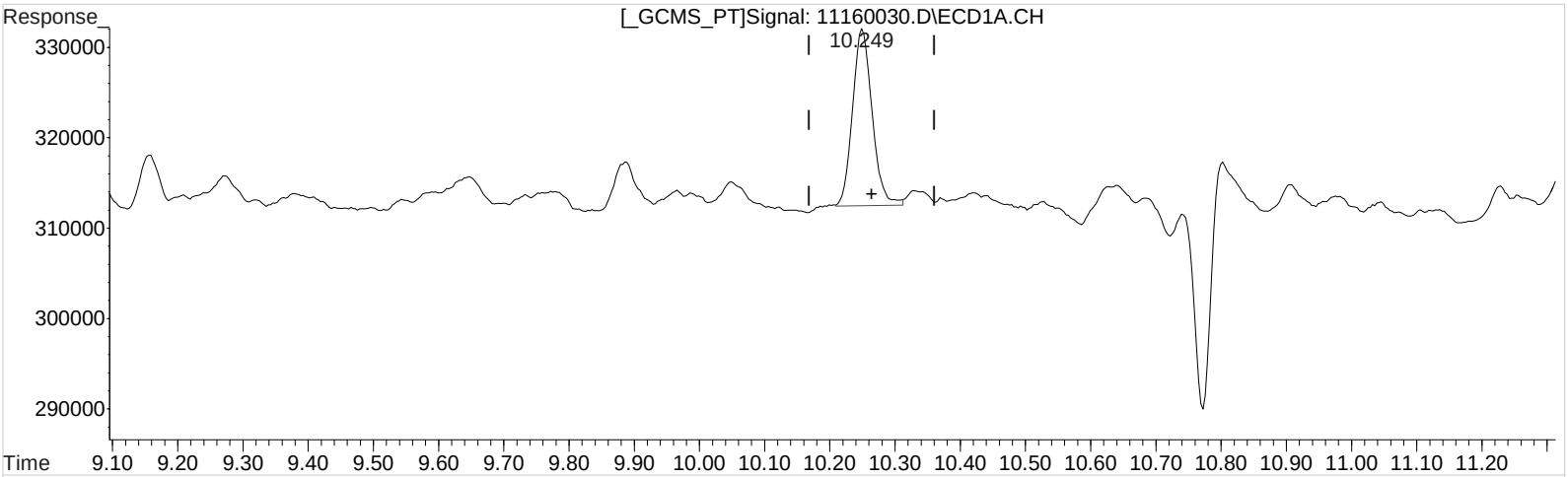
Quantitation Report (Qedit)

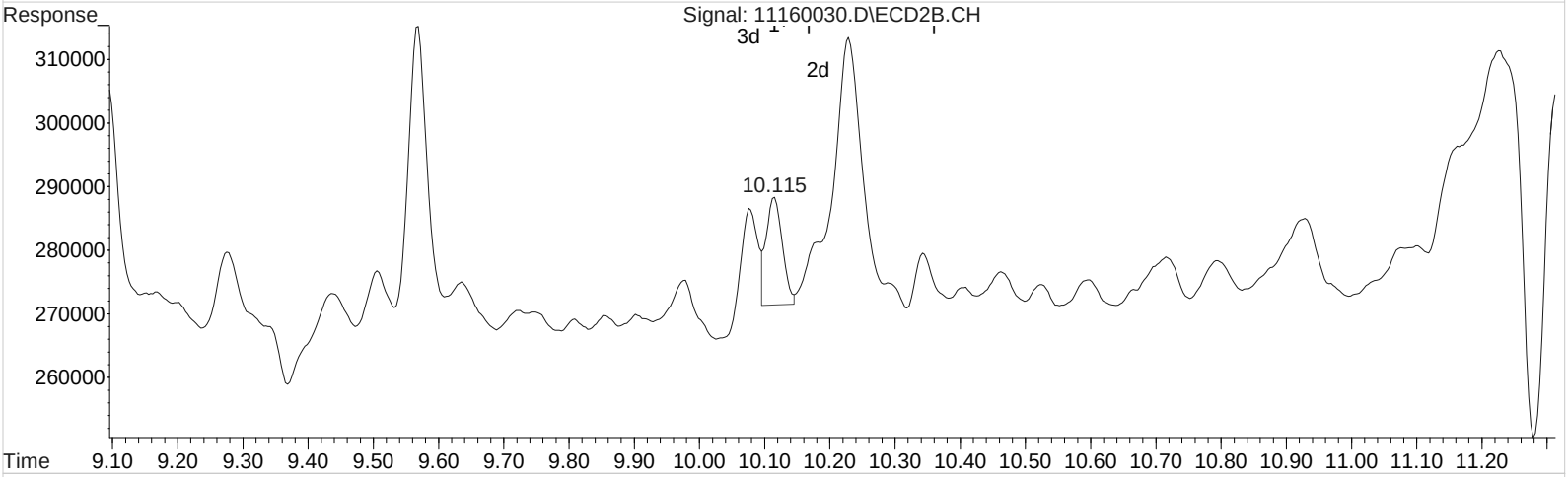
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160030.D Vial: 44
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:33 am Operator: UA
Sample : K2010070-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:41:32 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 17:31:59 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)

10.249min 0.436 ppb

response 40861

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

10.115min 0.143 ppb

response 29115

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

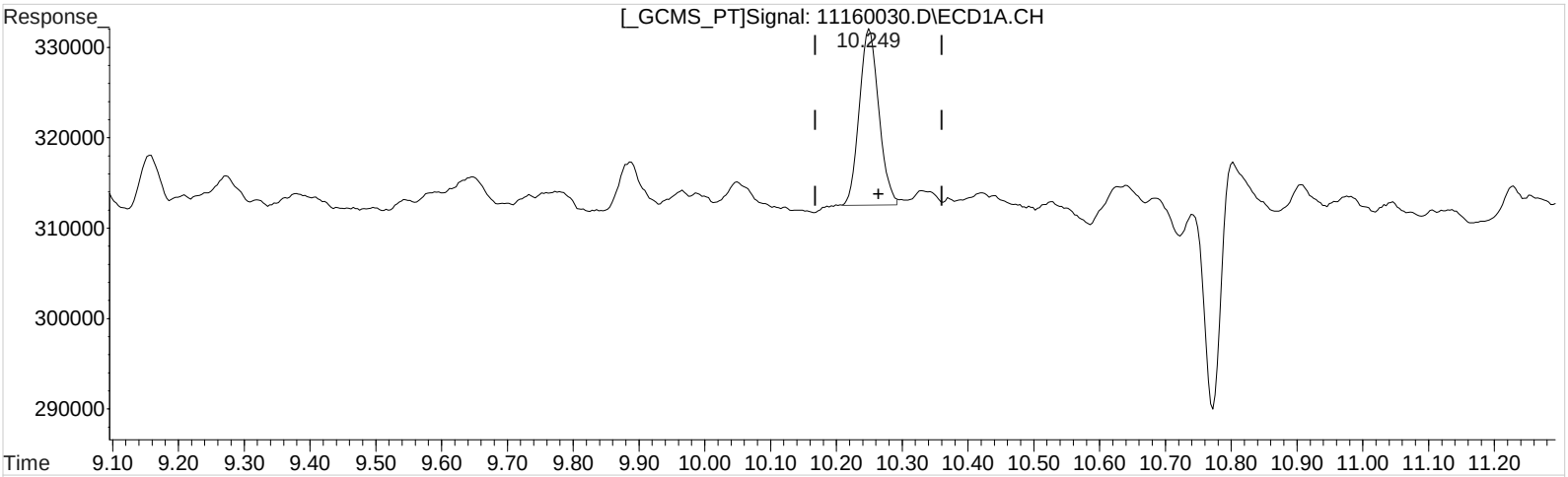
Quantitation Report (Qedit)

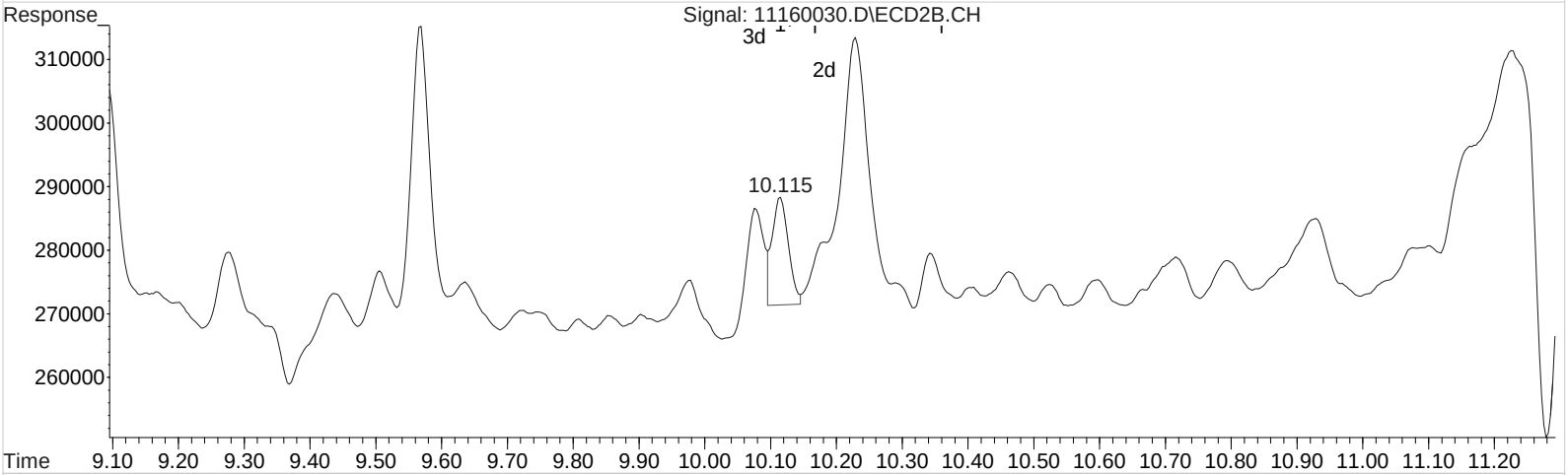
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160030.D Vial: 44
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:33 am Operator: UA
Sample : K2010070-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:41:32 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 17:31:59 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)

10.249min 0.425 ppb m

response 39845

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

10.115min 0.143 ppb

response 29115

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160031.D\
Lab ID: K2010070-010
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 04:56:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	31		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	30		20	
	2,4-D	23		20	

Primary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160031.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 04:56:00	**Vial:**	20
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-010	**Raw Units:**	ppb

Bottle ID:	K2010070-010.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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 +0.01	7.82 +0.01	1172716	3174238	64.447	75.045	64	75	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 +0.02	10.09 -0.03	11337	586319	0.121	2.888 CCV	0.20U	4.8J	2.4 U	Y
2,4-D	9.33 +0.03	9.03 -0.02	12842	192796	0.605	3.766 CCV	1.0U	6.2U	7.7 U	Y

Prep Amount:	30.206 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160031.D Vial: 45
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:56 am Operator: UA
Sample : K2010070-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:55:48 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 17:31:59 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...	7.988	7.818	1172716	3174238	64.447m	75.045m	
	Target Compounds							
1) m	Dalapon	3.138	2.875	5756	119235	0.237	2.468	#
3) m	Dicamba	8.242	7.931	13993	109063	0.200	0.736	#
4) m	MCPP	8.312	8.101	213602	292541	5105.315	603.111	#
5) m	MCPA	8.605	8.345	23184	176024	395.952	N.D.	#
6) m	Dichloroprop	8.965	8.775	42035	67691	2.254	1.623	#
7) m	2,4-D	9.332	9.031	12842	192796	0.605m	3.766	#
8) m	2,4,5-TP ...	10.255	10.091	11337	586319	0.121	2.888	#
9) m	2,4,5-T	10.692	10.605f	81407	51895	0.987	0.271	#
10) m	2,4-DB	0.000	11.178	0	110493	N.D. d	3.808	
11) m	Dinoseb	11.708	0.000	9057	0	0.146	N.D. d	#

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

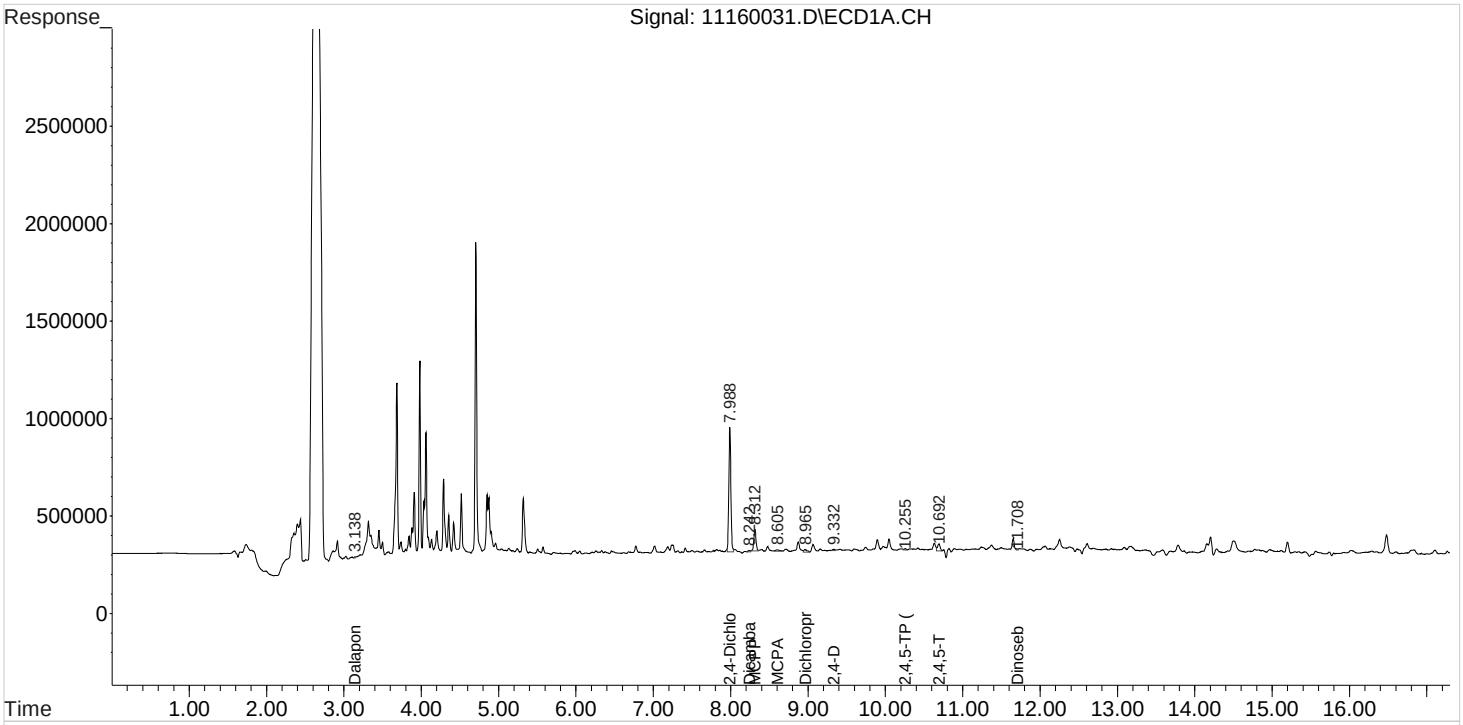
Quantitation Report (QT Reviewed)

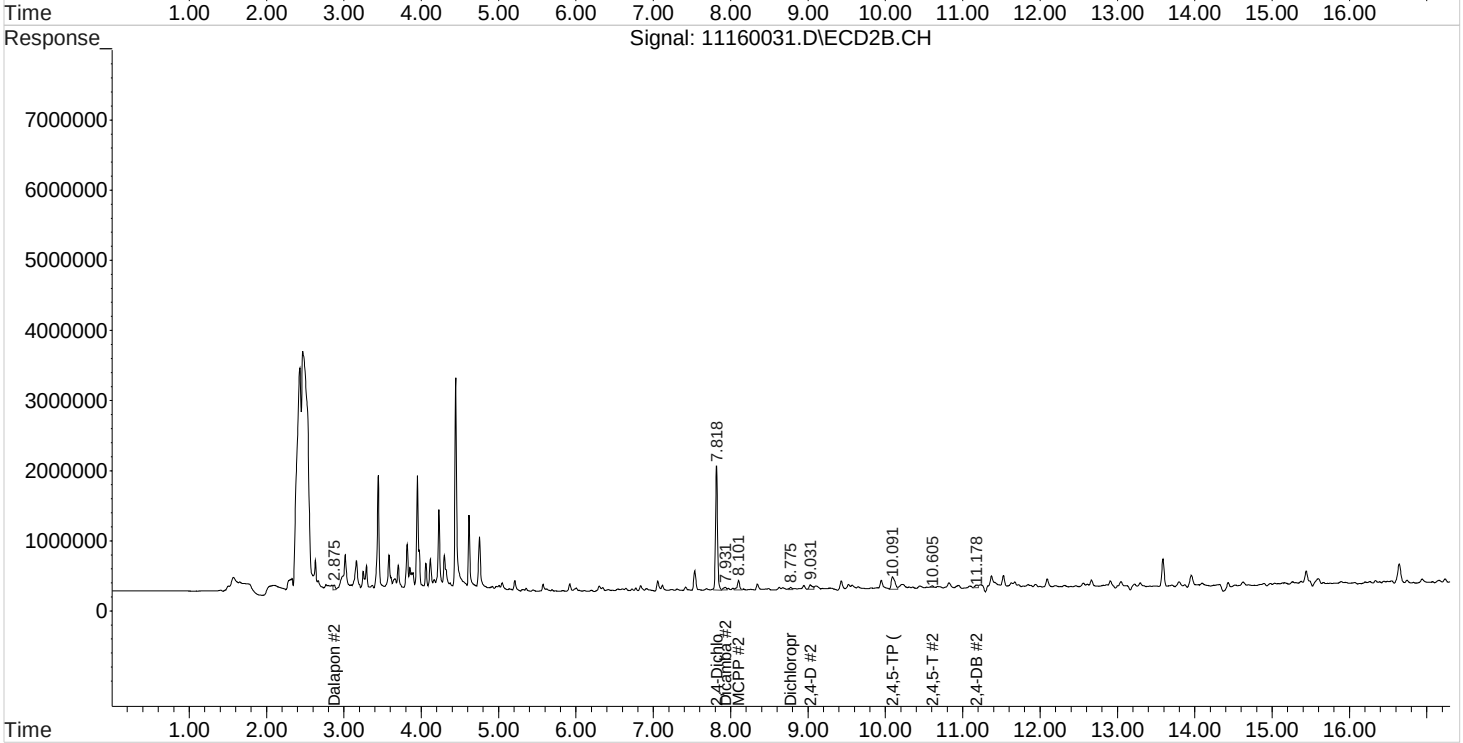
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160031.D Vial: 45
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:56 am Operator: UA
Sample : K2010070-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:55:48 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 17:31:59 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





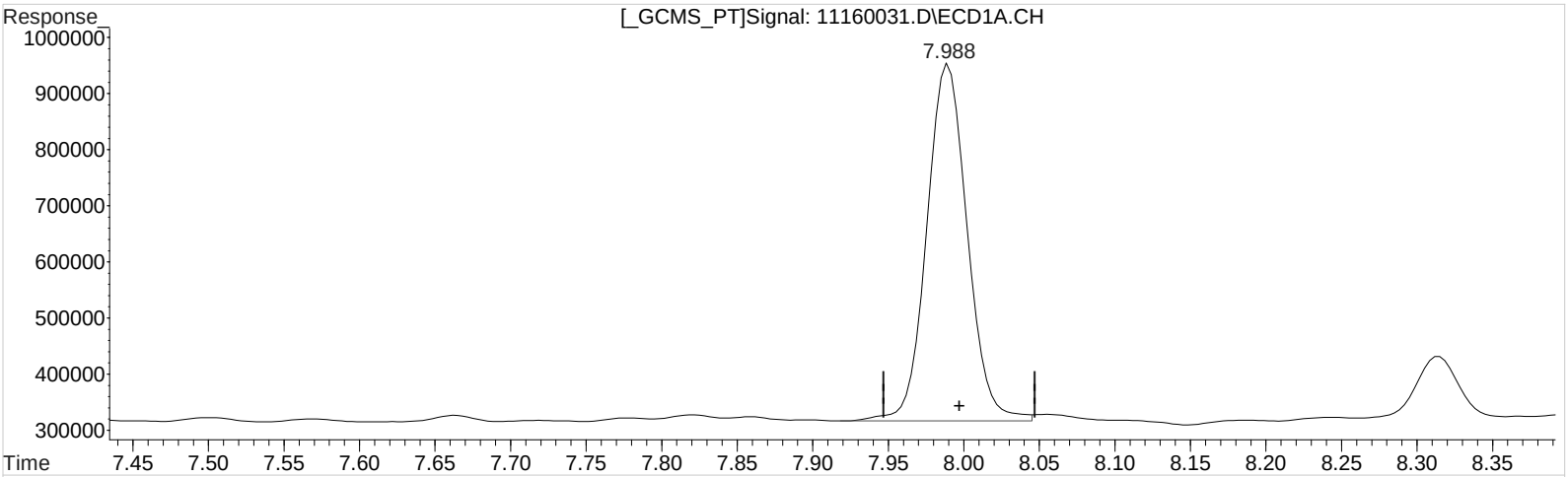
Quantitation Report (Qedit)

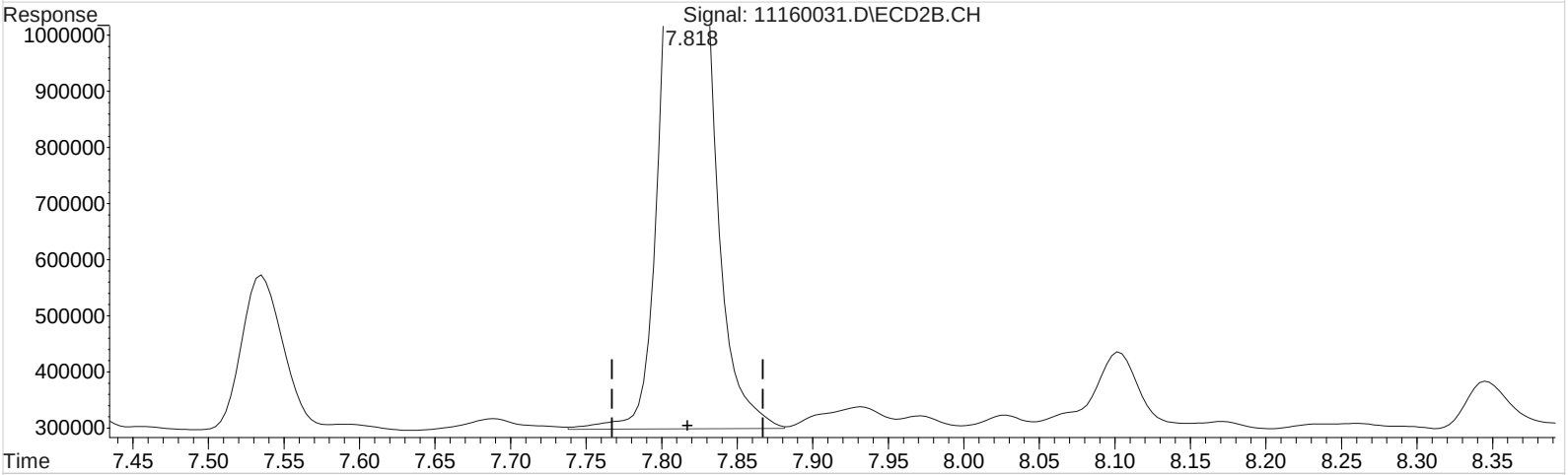
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160031.D Vial: 45
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:56 am Operator: UA
Sample : K2010070-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:42:45 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 17:31:59 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)

7.988min 65.453 ppb

response 1191027

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

7.818min 75.486 ppb

response 3192893

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

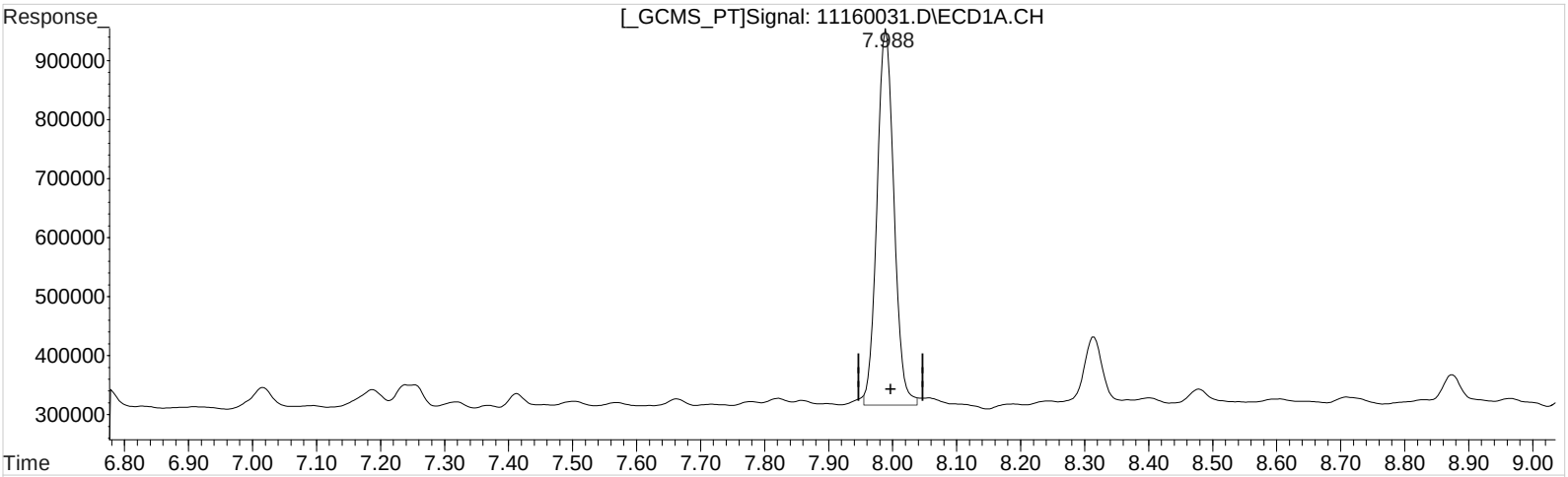
Quantitation Report (Qedit)

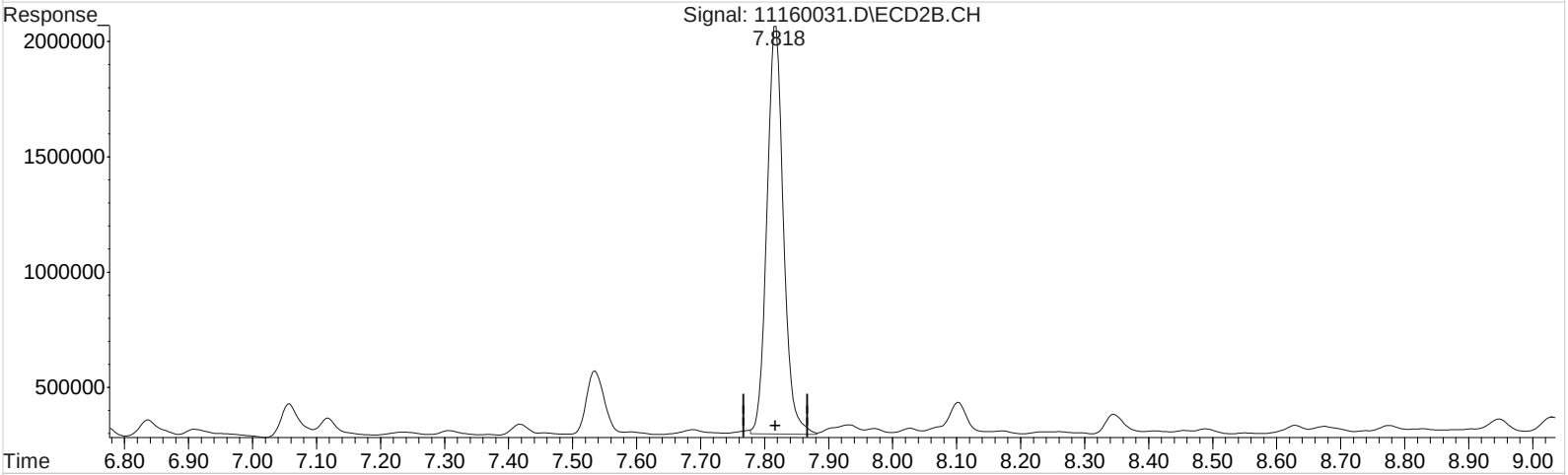
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160031.D Vial: 45
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:56 am Operator: UA
Sample : K2010070-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:42:45 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 17:31:59 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)

7.988min 64.447 ppb m

response 1172716

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.818min 75.045 ppb m

response 3174238

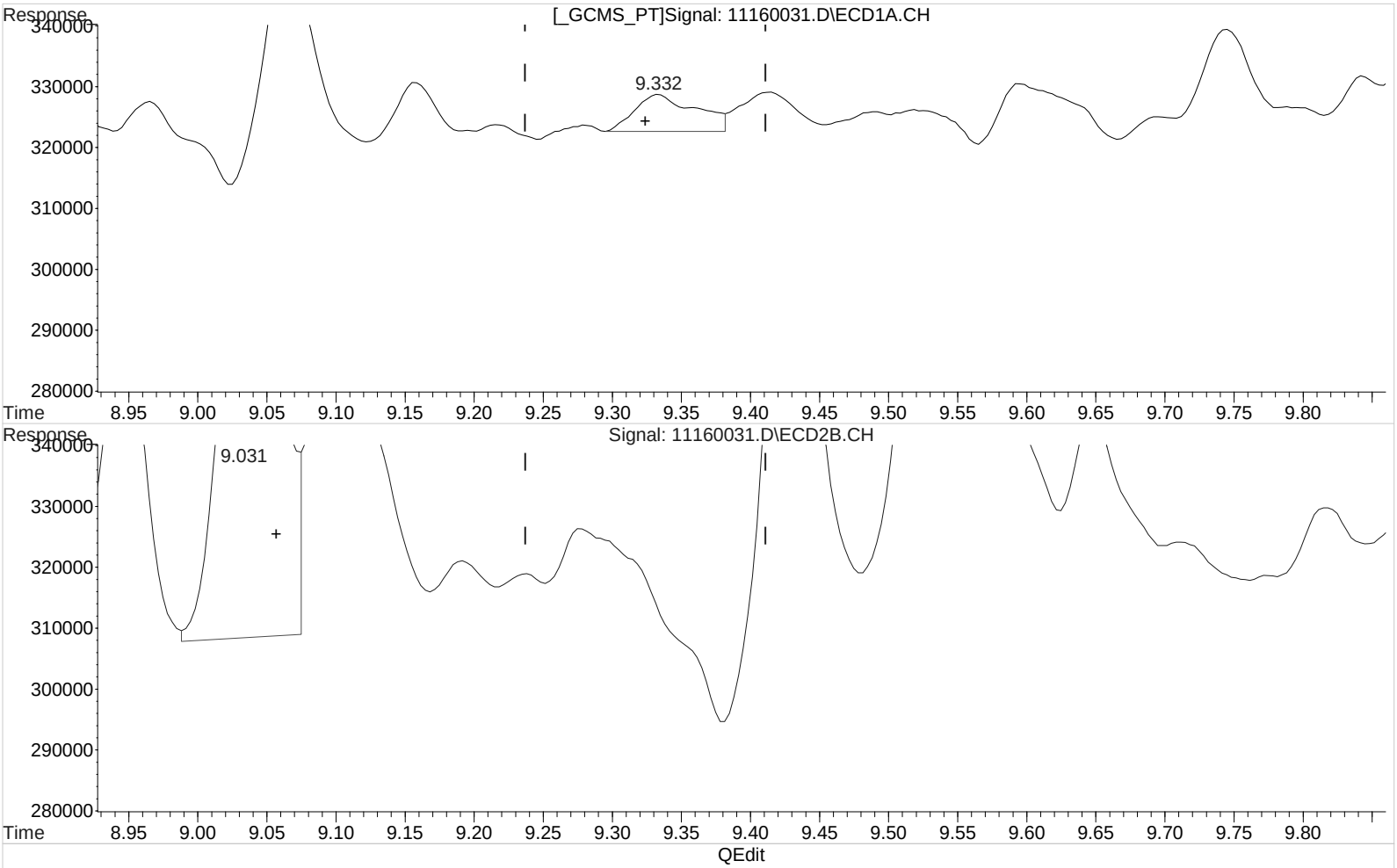
(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160031.D Vial: 45
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:56 am Operator: UA
Sample : K2010070-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:42:45 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 17:31:59 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)

9.332min 0.901 ppb

response 19141

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

9.031min 3.766 ppb

response 192796

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

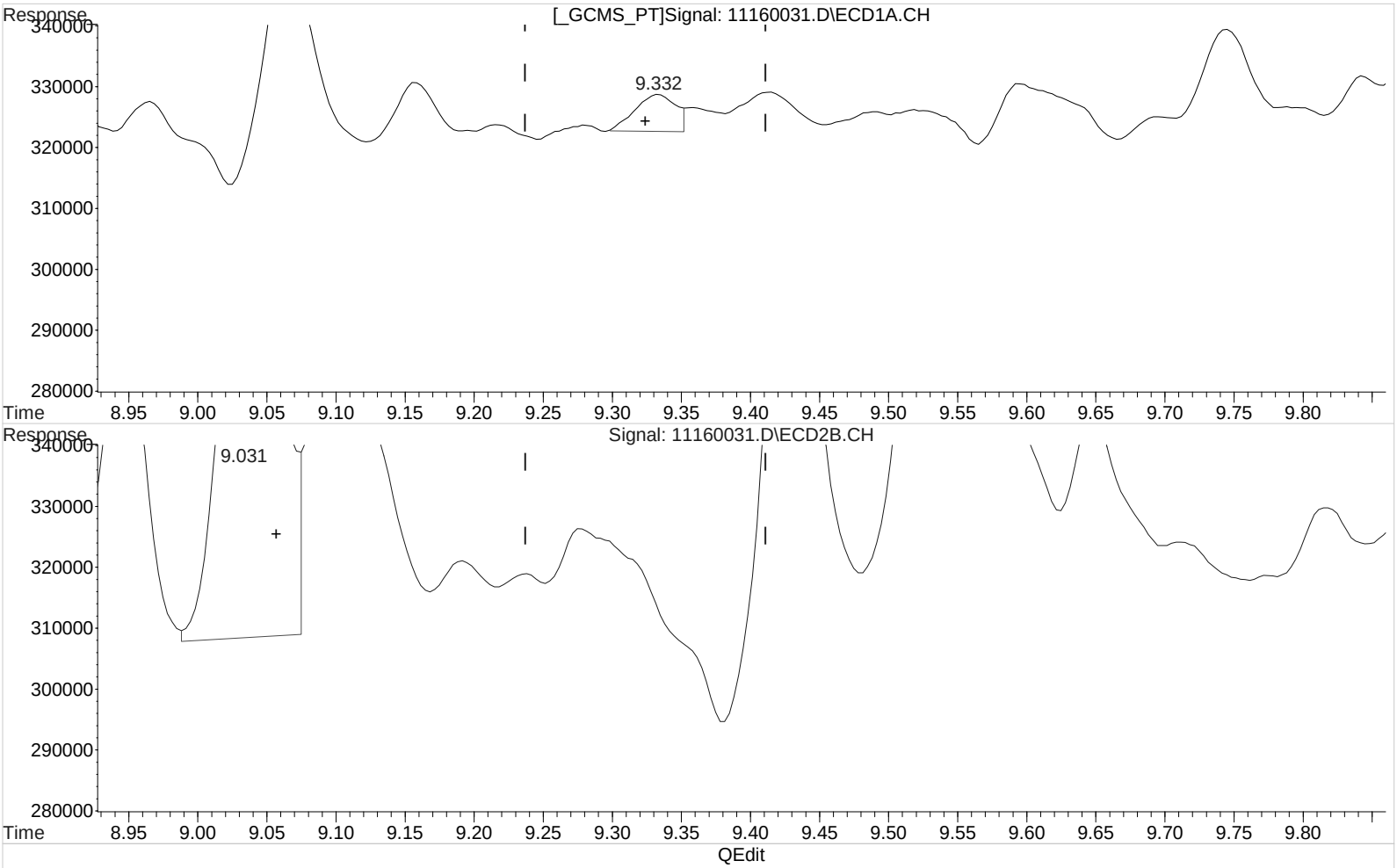
Quantitation Report (Qedit)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160031.D Vial: 45
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:56 am Operator: UA
Sample : K2010070-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:42:45 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 17:31:59 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



(7) 2,4-D (m)

9.332min 0.605 ppb m

response 12842

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

9.031min 3.766 ppb

response 192796

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160032.D\
Lab ID: K2010070-011
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 05:18:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	31		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	30		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160032.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 05:18:00	**Vial:**	21
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-011	**Raw Units:**	ppb

Bottle ID:	K2010070-011.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1763769	4535010	96.928	107.216	97	107	97	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	10.30 +0.06	10.08 -0.04	52680	1364336	0.562	6.721 CCV	0.93U	11J	2.4 U	Y
2,4-D	9.32 +0.02	9.02 -0.03	19950	86180	0.939	1.683 CCV	1.6U	2.8U	7.7 U	Y

Prep Amount:	30.207 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160032.D Vial: 46
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 5:18 am Operator: UA
Sample : K2010070-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:57:38 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 17:31:59 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...	7.978	7.807	1763769	4535010	96.928m	107.216m	
	Target Compounds							
1) m	Dalapon	3.138	2.874	9219	67379	0.380	1.395	#
3) m	Dicamba	8.228	7.921	9910	58103	0.142	0.392	#
4) m	MCPP	8.301	8.091	357191	315549	8195.232	762.128	#
5) m	MCPA	8.608	8.337	92941	225918	1587.310	N.D.	#
6) m	Dichloroprop	8.954	8.761	97908	79902	5.250	1.915	#
7) m	2,4-D	9.318	9.021	19950	86180	0.939	1.683	#
8) m	2,4,5-TP ...	10.301	10.077f	52680	1364336	0.562	6.721	#
9) m	2,4,5-T	10.678	10.514	133873	167609	1.623	0.876	#
10) m	2,4-DB	11.258	11.161	92507	232126	9.017	8.000	
11) m	Dinoseb	0.000	11.314	0	185219	N.D. d	1.354	

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

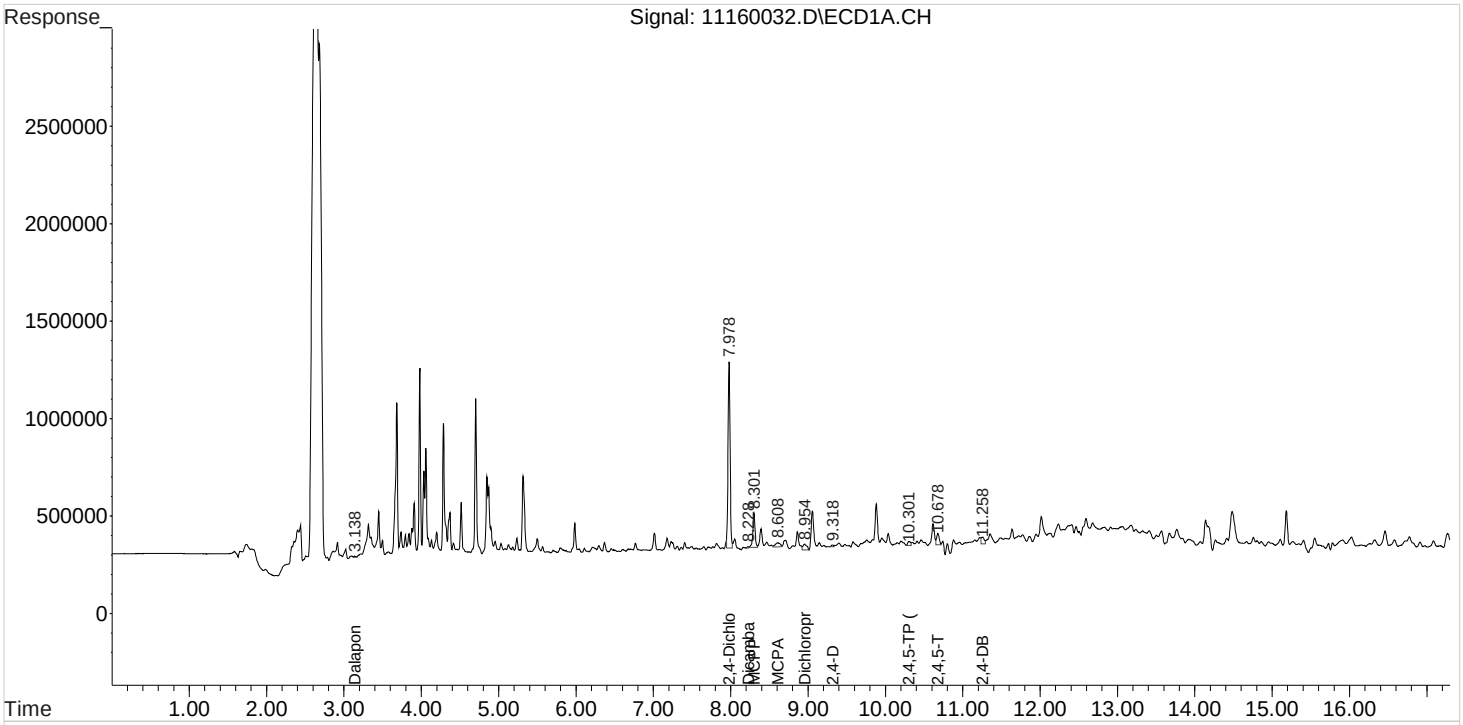
Quantitation Report (QT Reviewed)

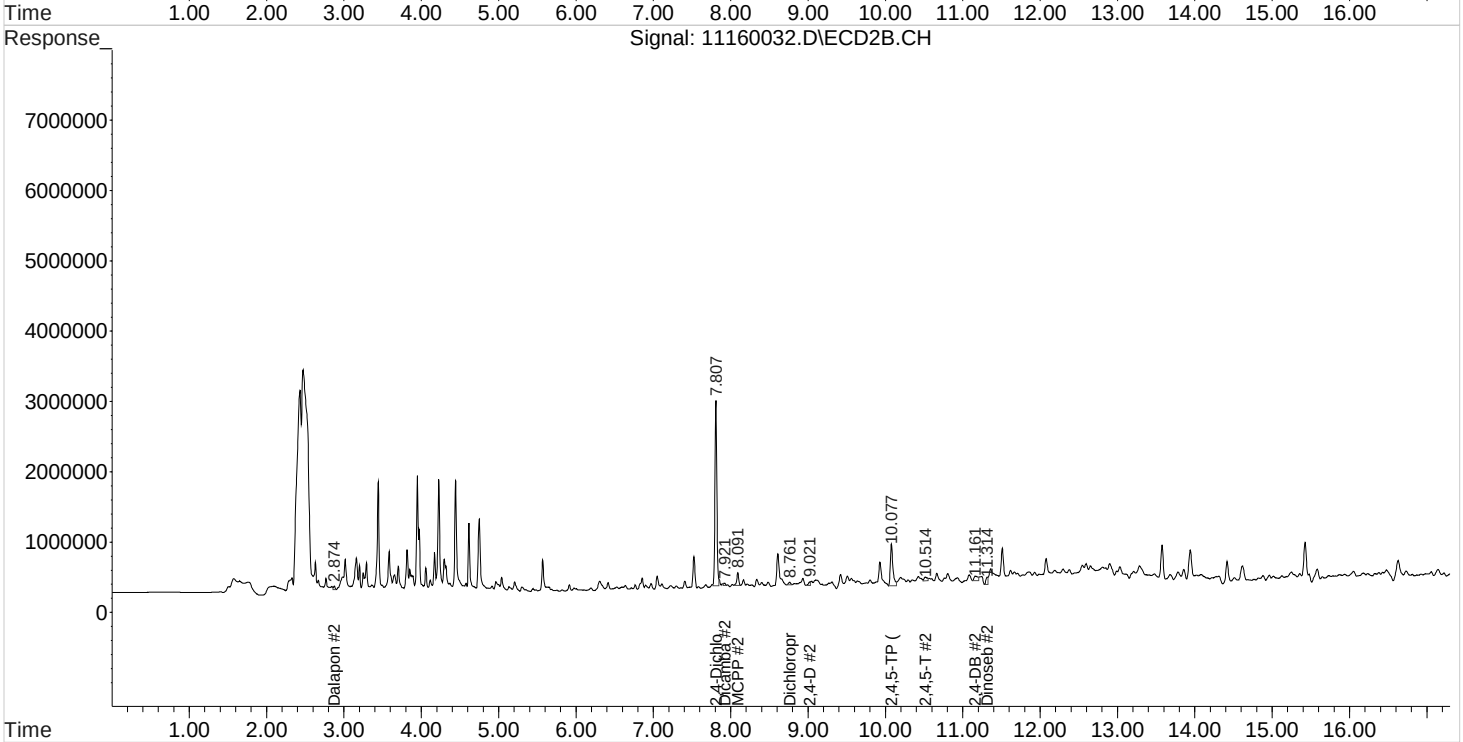
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160032.D Vial: 46
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 5:18 am Operator: UA
Sample : K2010070-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:57:38 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 17:31:59 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





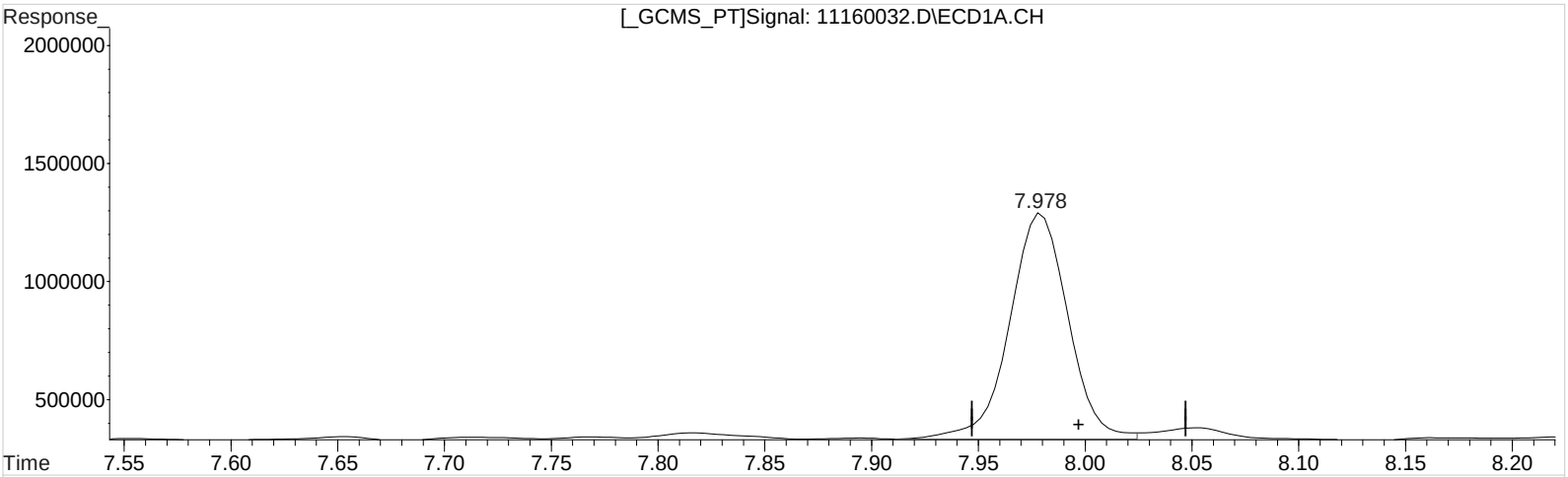
Quantitation Report (Qedit)

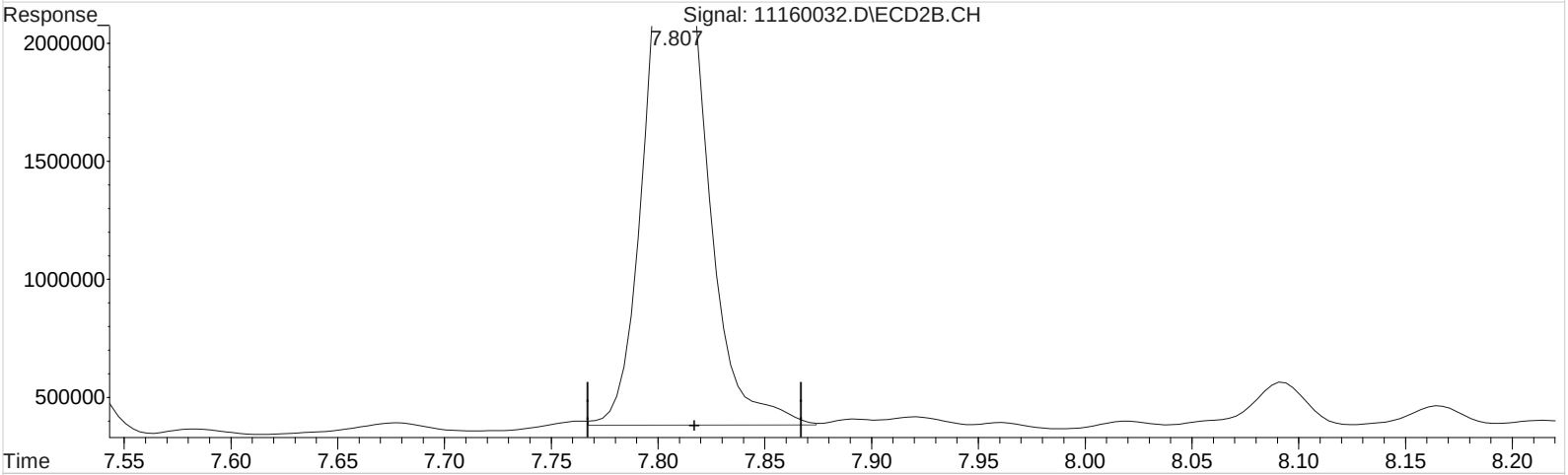
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160032.D Vial: 46
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 5:18 am Operator: UA
Sample : K2010070-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:55:56 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 17:31:59 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)

7.978min 99.833 ppb

response 1816629

Manual Integration:

Before

11/19/20

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

7.807min 108.672 ppb

response 4596590

(+) = Expected Retention Time

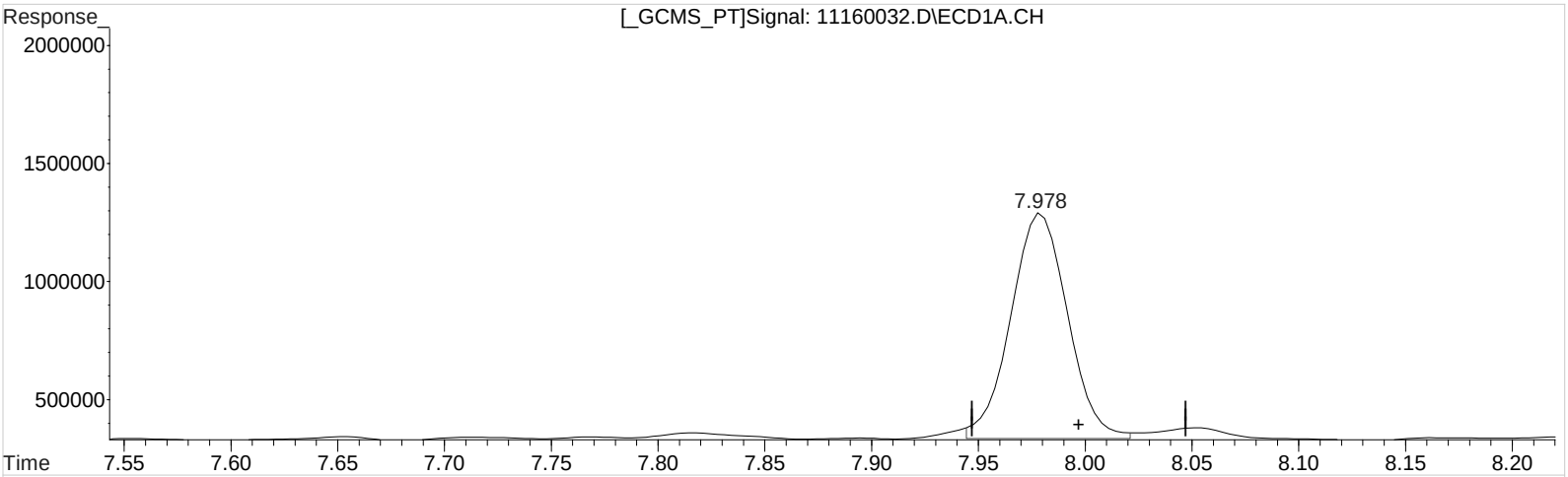
Quantitation Report (Qedit)

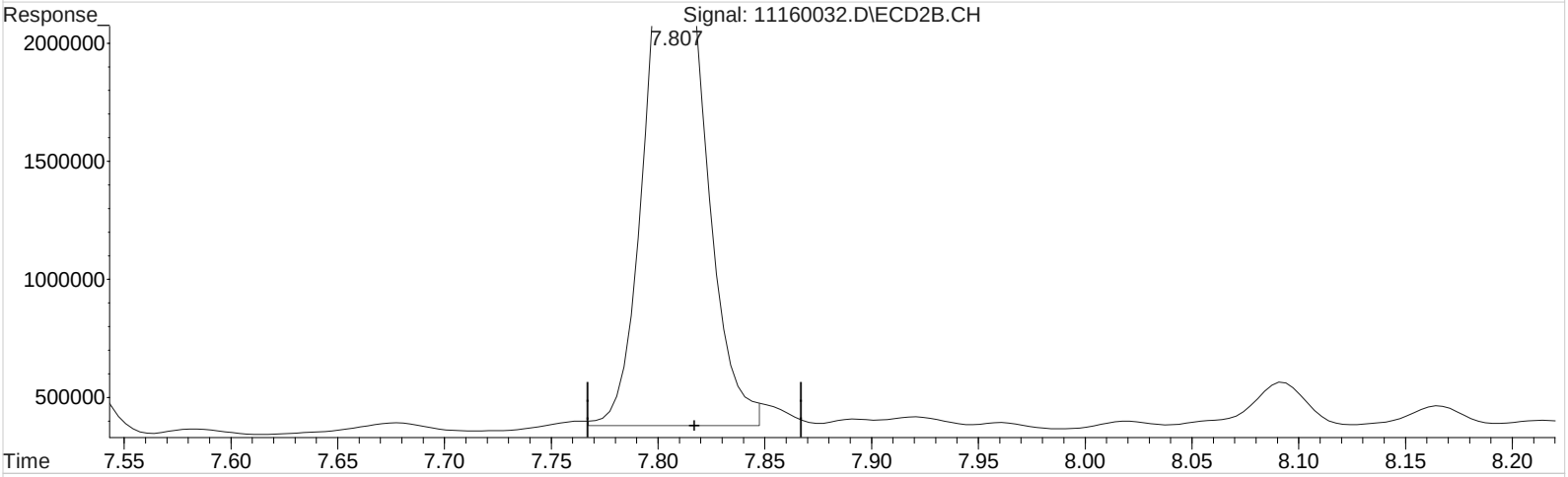
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160032.D Vial: 46
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 5:18 am Operator: UA
Sample : K2010070-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:55:56 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 17:31:59 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)

7.978min 96.928 ppb m

response 1763769

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.807min 107.216 ppb m

response 4535010

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160033.D\
Lab ID: K2010070-012
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 05:41:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	31		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	30		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160033.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 05:41:00	**Vial:**	22
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-012	**Raw Units:**	ppb

Bottle ID:	K2010070-012.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1427152	3857328	78.430	91.194	78	91	78	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.24	10.09 -0.03	25194	190150	0.269	0.937 CCV	0.45U	1.6U	2.4 U	Y
2,4-D	9.31 +0.01	9.09 +0.04	6958	94422	0.328	1.844 CCV	0.55U	3.1U	7.7 U	Y

Prep Amount:	30.013 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160033.D Vial: 47
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 5:41 am Operator: UA
Sample : K2010070-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:58:25 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...	7.979	7.806	1427152	3857328	78.430m	91.194m
	Target Compounds						
1) m	Dalapon	3.136	2.872	124860	104748	5.147	2.168 #
3) m	Dicamba	8.189	7.919	7831	61551	0.112	0.415 #
4) m	MCPP	8.303	8.089	108333	262672	2840.013	396.675 #
5) m	MCPA	8.626f	8.332	50283	211683	858.767	N.D. #
6) m	Dichloroprop	8.953	8.756	59974	77253	3.216	1.852 #
7) m	2,4-D	9.309	9.089	6958	94422	0.328	1.844 #
8) m	2,4,5-TP ...	10.243	10.089	25194	190150	0.269	0.937 #
9) m	2,4,5-T	10.676	10.516	39209	19917	0.475	0.104 #
10) m	2,4-DB	11.323	0.000	44651	0	4.352	N.D. d#
11) m	Dinoseb	11.639	0.000	86769	0	1.403	N.D. d#

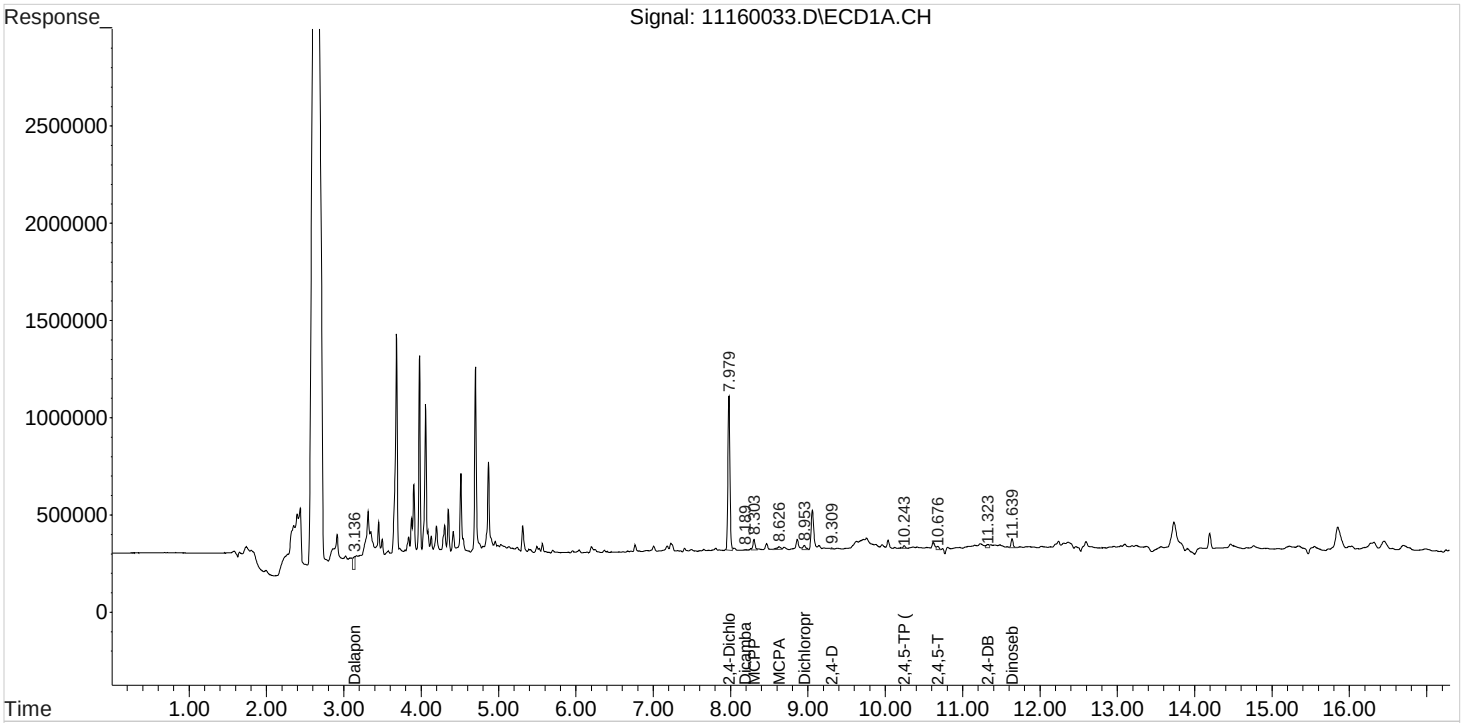
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

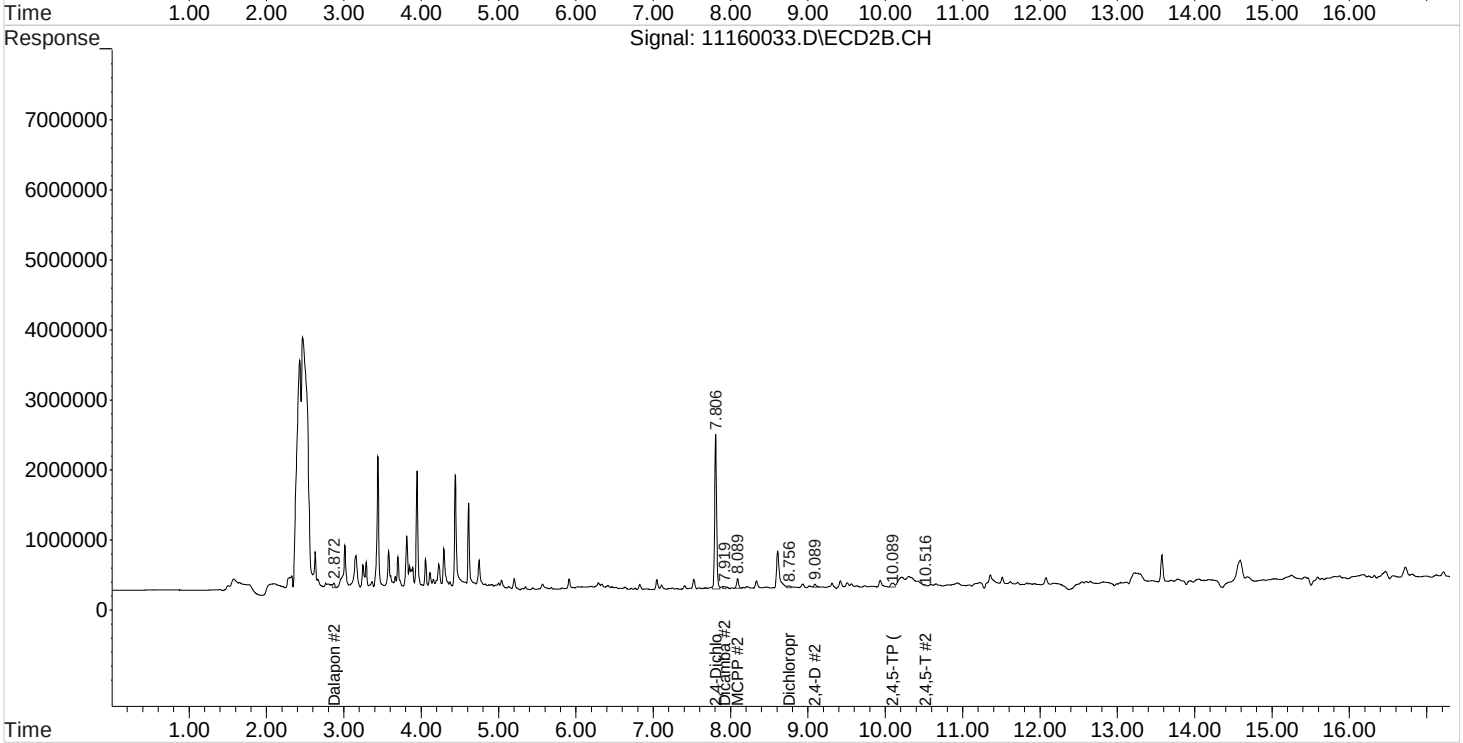
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160033.D Vial: 47
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 5:41 am Operator: UA
Sample : K2010070-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:58:25 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





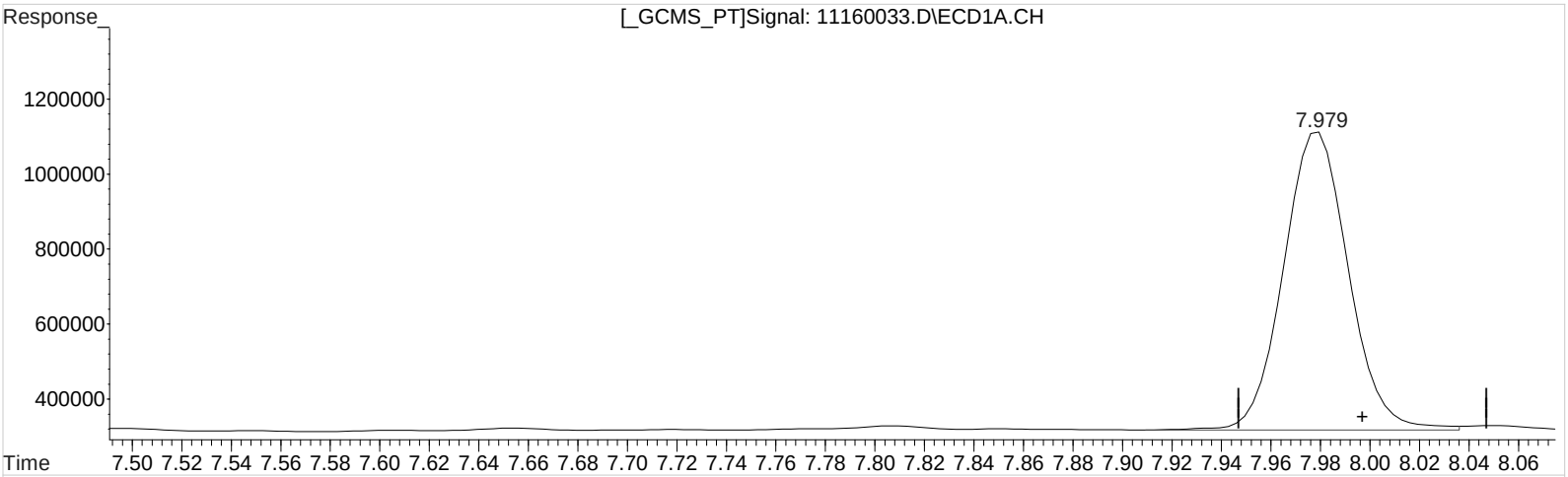
Quantitation Report (Qedit)

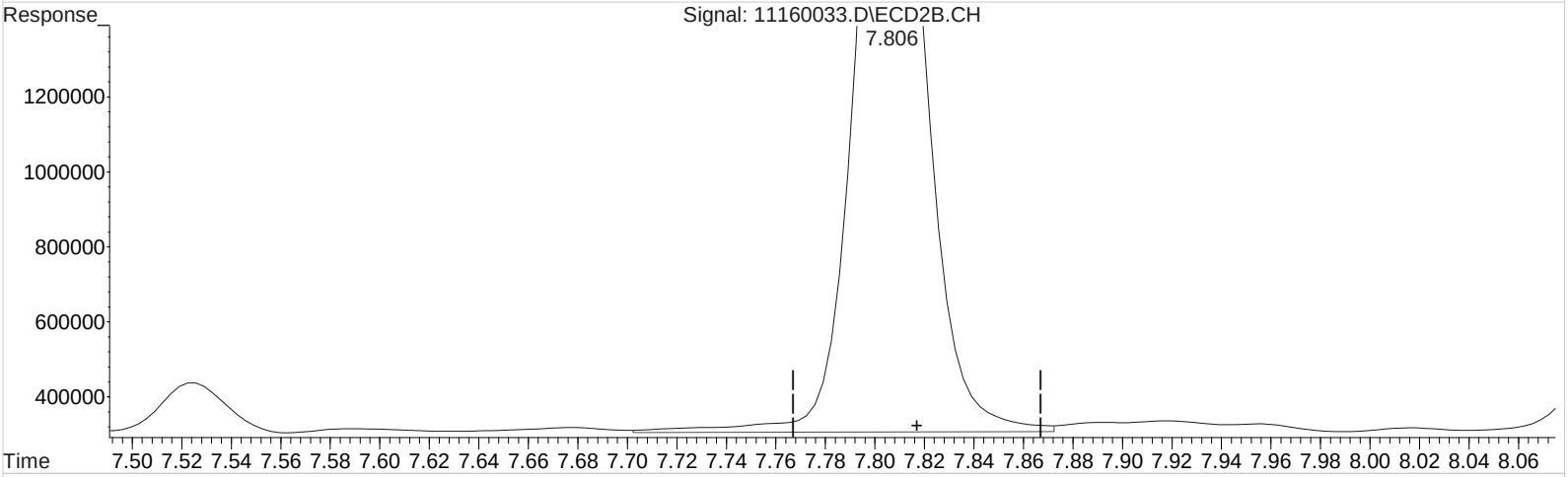
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160033.D Vial: 47
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 5:41 am Operator: UA
Sample : K2010070-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:57:45 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 17:31:59 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)

7.979min 79.811 ppb

response 1452282

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

7.806min 92.352 ppb

response 3906303

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

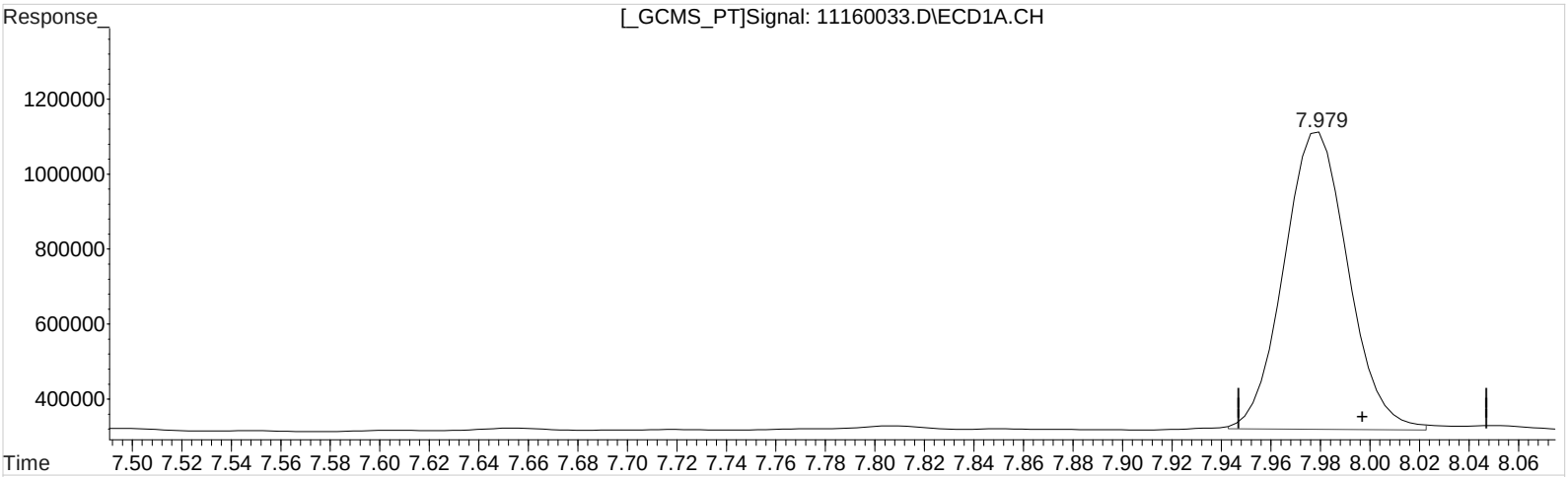
Quantitation Report (Qedit)

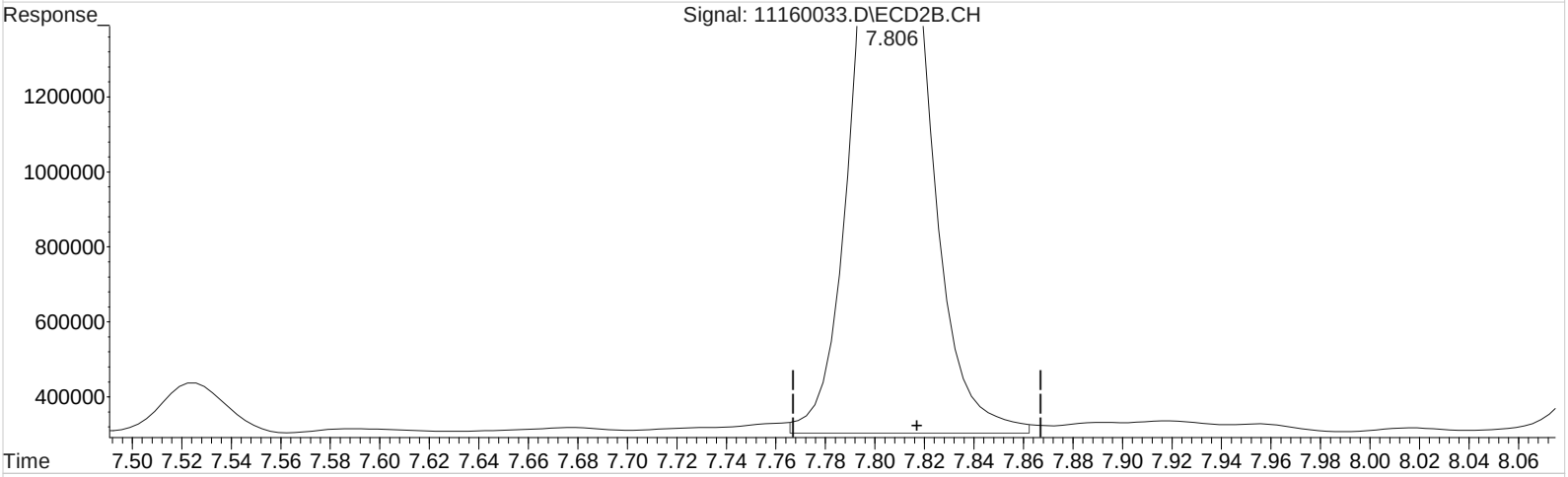
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160033.D Vial: 47
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 5:41 am Operator: UA
Sample : K2010070-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:57:45 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 17:31:59 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)

7.979min 78.430 ppb m

response 1427152

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.806min 91.194 ppb m

response 3857328

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160034.D\
Lab ID: K2010070-013
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 06:04:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	31		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	30		20	
	2,4-D	23		20	

Primary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160034.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 06:04:00	**Vial:**	23
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-013	**Raw Units:**	ppb

Bottle ID:	K2010070-013.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1521470	4230002	83.613	100.005	84	100	84	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25 +0.01	10.10 -0.02	19103	154945	0.204	0.763 CCV	0.34U	1.3U	2.4 U	Y
2,4-D	9.39 +0.09	9.09 +0.04	10728	102778	0.505	2.007 CCV	0.84U	3.3U	7.7 U	Y

Prep Amount:	30.114 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160034.D Vial: 48
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:04 am Operator: UA
Sample : K2010070-013 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:00:18 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...	7.978	7.807	1521470	4230002	83.613m	100.005m	
	Target Compounds							
1) m	Dalapon	3.138	2.874	12114	268357	0.499	5.555	#
3) m	Dicamba	8.184	7.920	37143	46712	0.532	0.315	#
4) m	MCPP	8.304	8.091	75751	327486	2138.876	844.629	#
5) m	MCPA	8.588	8.334	7735	244917	132.104	N.D.	#
6) m	Dichloroprop	8.951	8.744	29416	36693	1.577	0.880	#
7) m	2,4-D	9.391f	9.091	10728	102778	0.505	2.007	#
8) m	2,4,5-TP ...	10.248	10.097	19103	154945	0.204	0.763	#
9) m	2,4,5-T	10.678	10.521	26163	14285	0.317	0.075	#
10) m	2,4-DB	11.328	0.000	103149	0	10.054	N.D.	d#
11) m	Dinoseb	11.641	0.000	112680	0	1.821	N.D.	d#

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

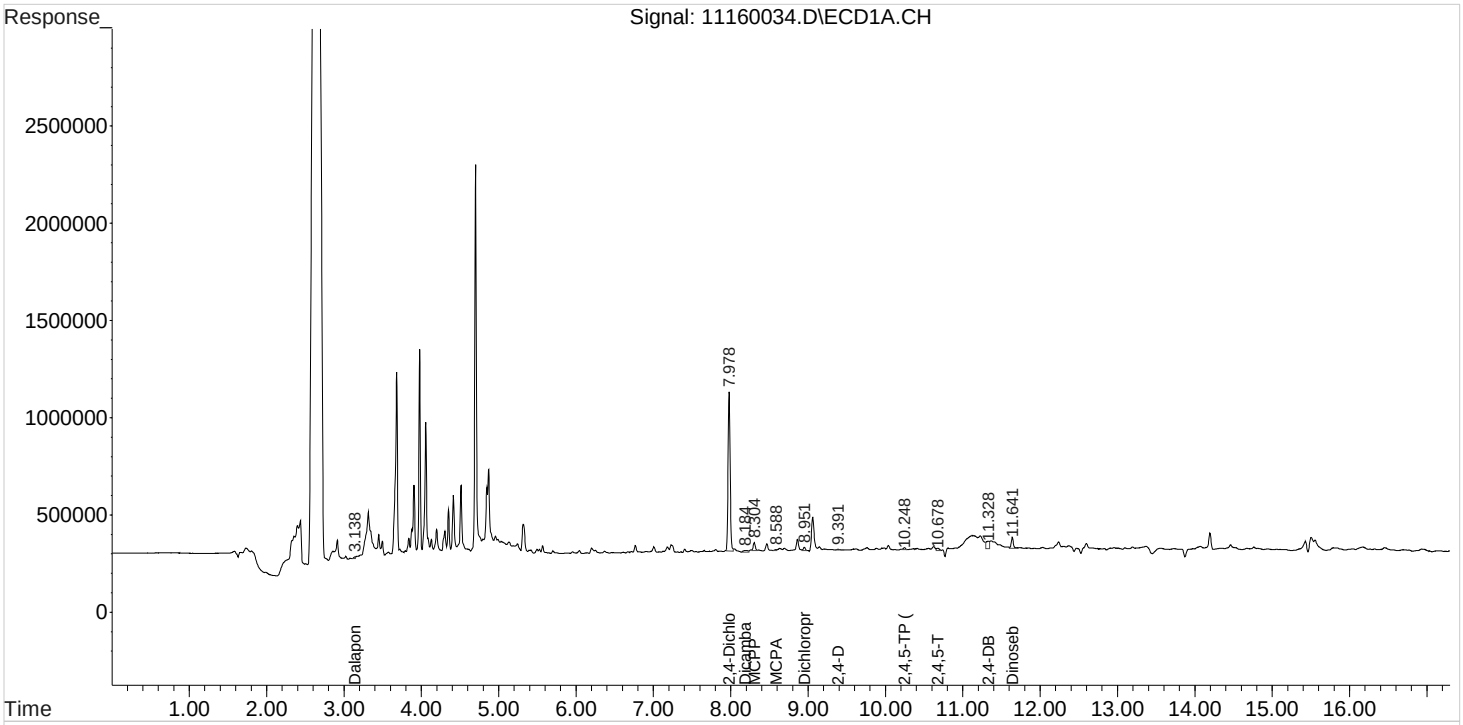
Quantitation Report (QT Reviewed)

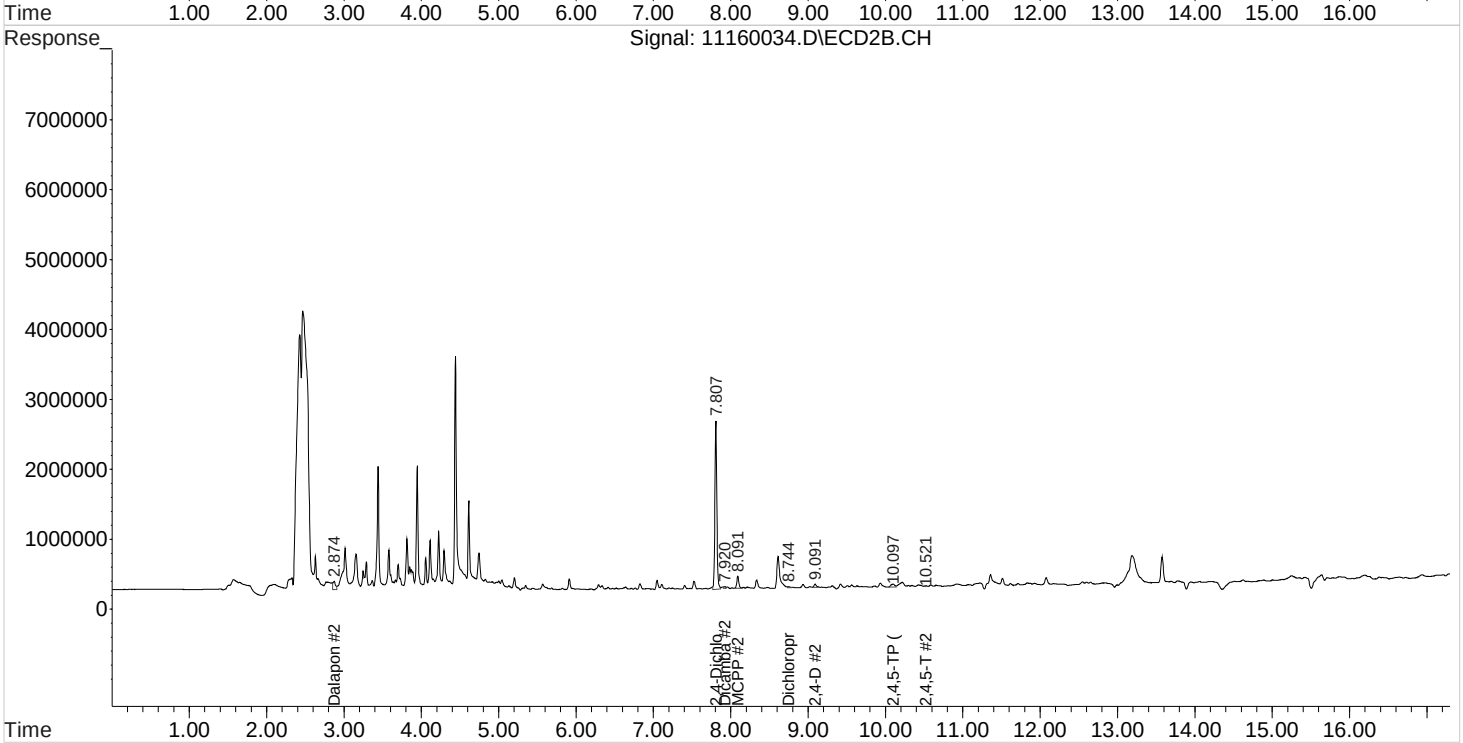
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160034.D Vial: 48
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:04 am Operator: UA
Sample : K2010070-013 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:00:18 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



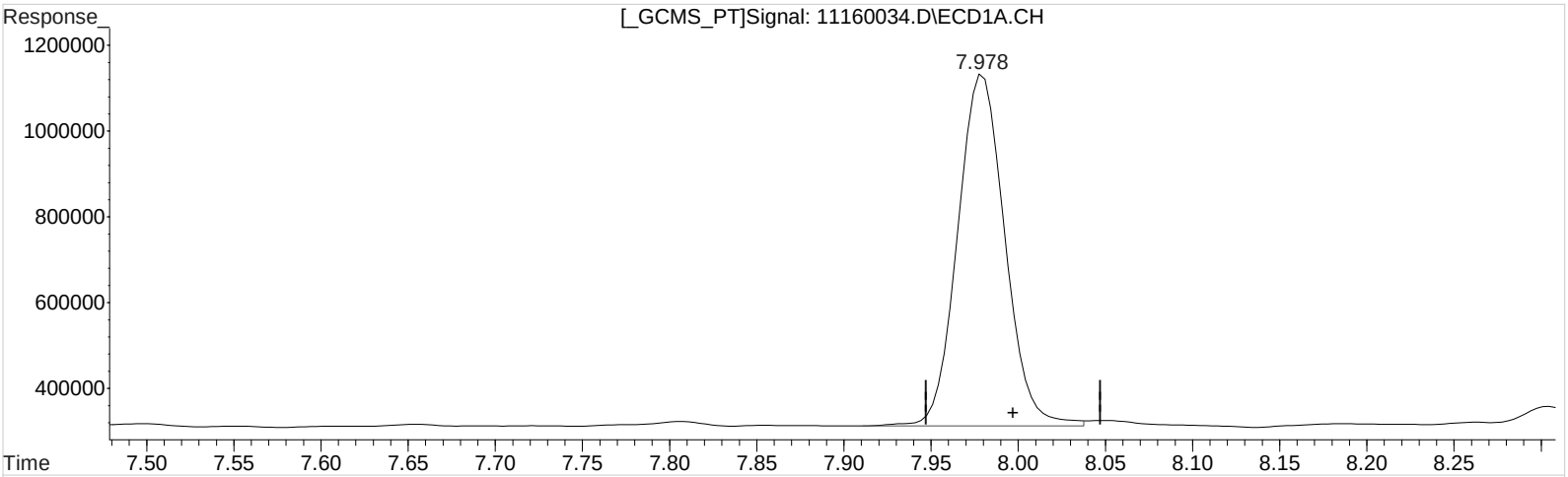


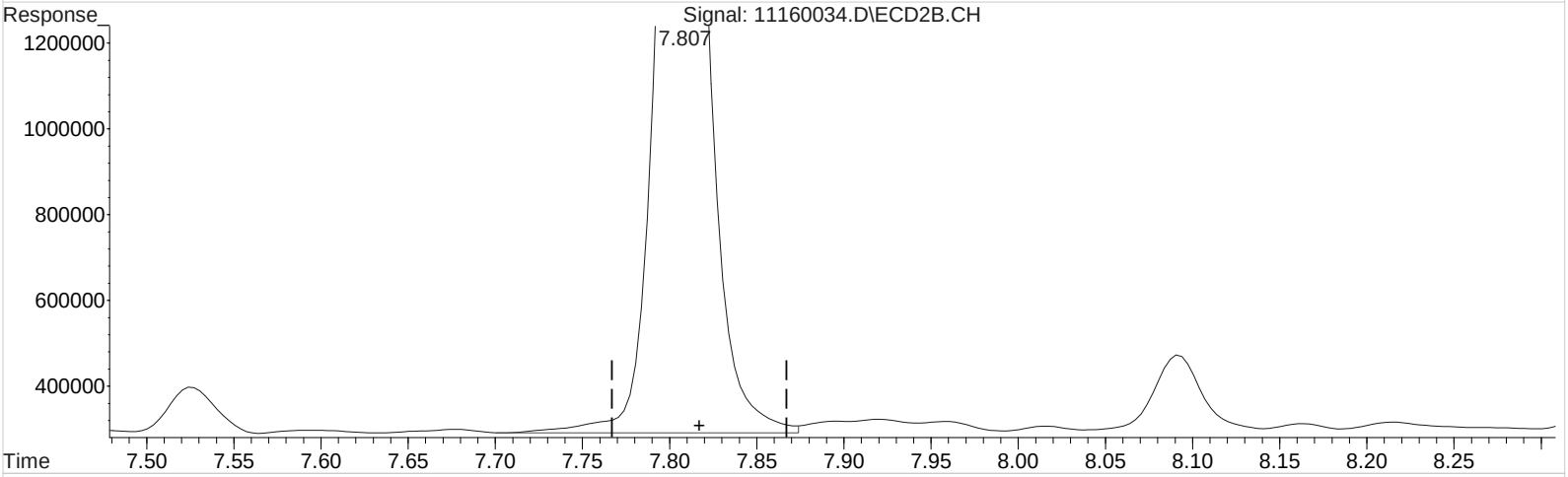
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160034.D Vial: 48
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:04 am Operator: UA
Sample : K2010070-013 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:58:34 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)

7.978min 85.031 ppb

response 1547270

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

7.807min 100.490 ppb

response 4250517

Manual Integration:

Before

11/19/20

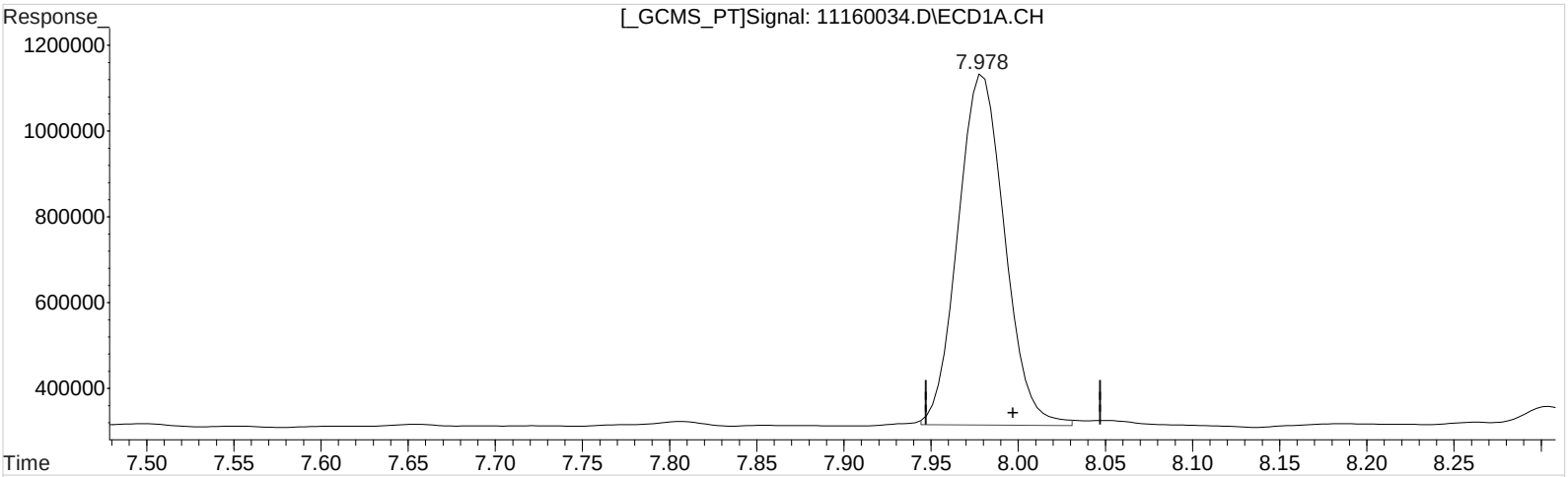
(+) = Expected Retention Time

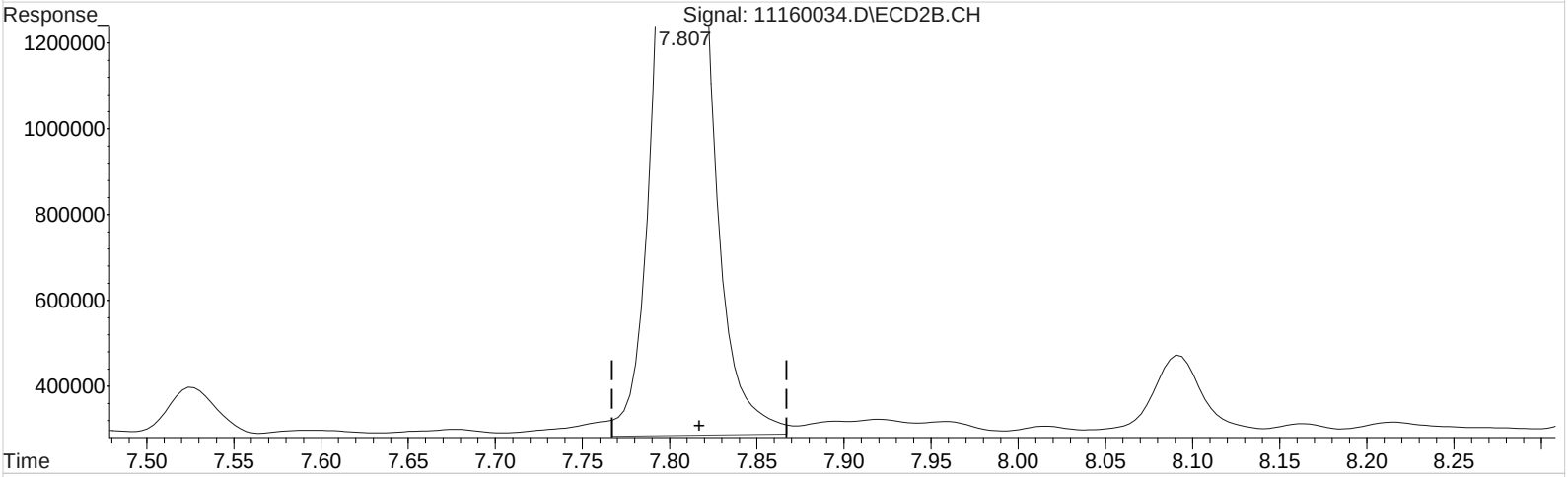
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160034.D Vial: 48
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:04 am Operator: UA
Sample : K2010070-013 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:58:34 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)

7.978min 83.613 ppb m

response 1521470

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.807min 100.005 ppb m

response 4230002

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160035.D\
Lab ID: K2010070-014
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 06:27:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	31		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	30		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160035.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 06:27:00	**Vial:**	24
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-014	**Raw Units:**	ppb

Bottle ID:	K2010070-014.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1478523	4101760	81.253	96.973	81	97	81	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	10.25 +0.01	10.10 -0.02	26903	164534	0.287	0.811 CCV	0.48U	1.3U	2.4 U	Y
2,4-D	9.29 -0.01	9.05	18521	14845	0.872	0.290 CCV	1.5U	0.48U	7.7 U	Y

Prep Amount:	30.039 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160035.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:27 am Operator: UA
Sample : K2010070-014 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:01:05 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 17:31:59 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...	7.979	7.809	1478523	4101760	81.253m	96.973m	
	Target Compounds							
1) m	Dalapon	3.139	2.875	12494	205880	0.515	4.261	#
3) m	Dicamba	8.182	7.922	6661	59085	0.095	0.399	#
4) m	MCPP	8.302	8.092	160694	322759	3966.779	811.959	#
5) m	MCPA	8.589	8.335	10046	204620	171.572	N.D.	#
6) m	Dichloroprop	8.952	8.729	27970	7288	1.500	0.175	#
7) m	2,4-D	9.289	9.045	18521	14845	0.872	0.290	#
8) m	2,4,5-TP ...	10.246	10.095	26903	164534	0.287	0.811	#
9) m	2,4,5-T	10.679	10.519	29264	17008	0.355	0.089	#
10) m	2,4-DB	11.326	0.000	26856	0	2.618	N.D.	d#
11) m	Dinoseb	11.642	0.000	92949	0	1.502	N.D.	d#

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

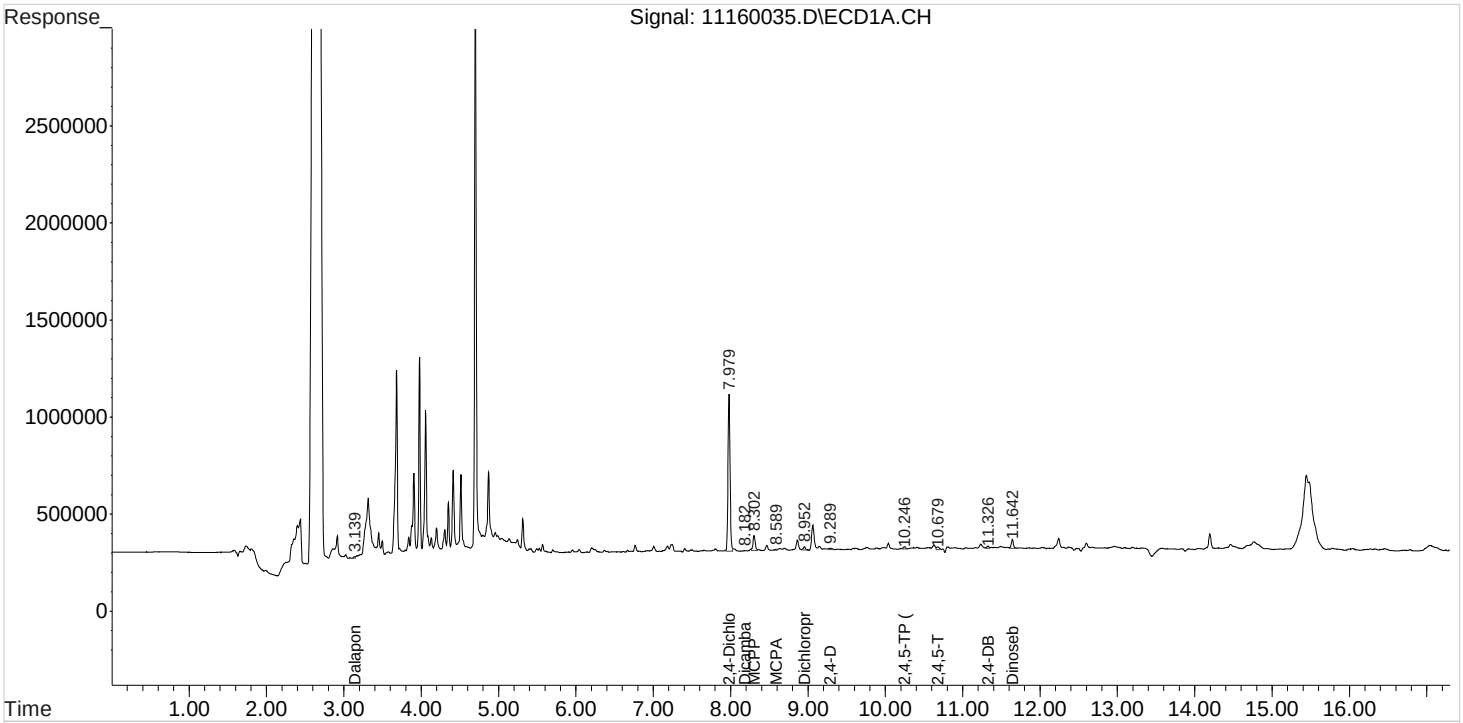
Quantitation Report (QT Reviewed)

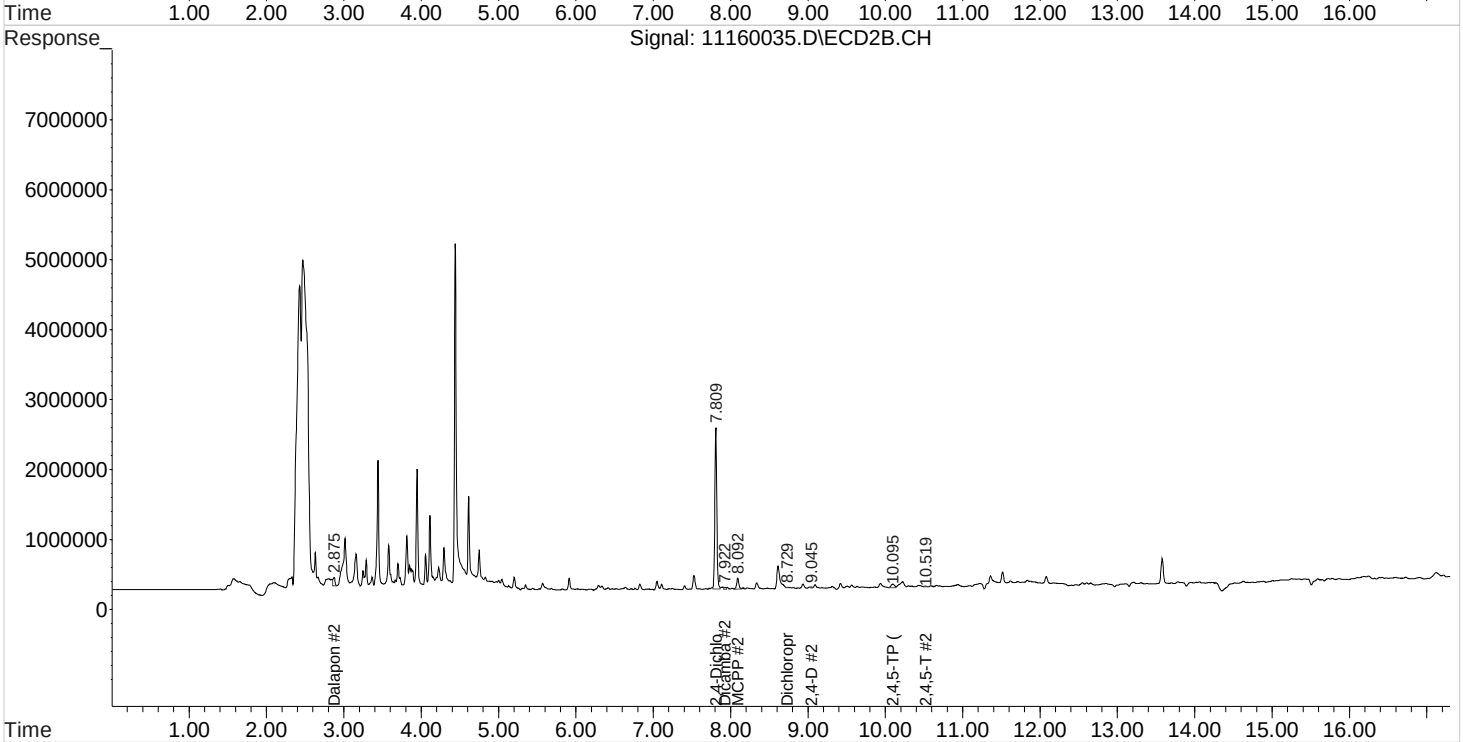
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160035.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:27 am Operator: UA
Sample : K2010070-014 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:01:05 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 17:31:59 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



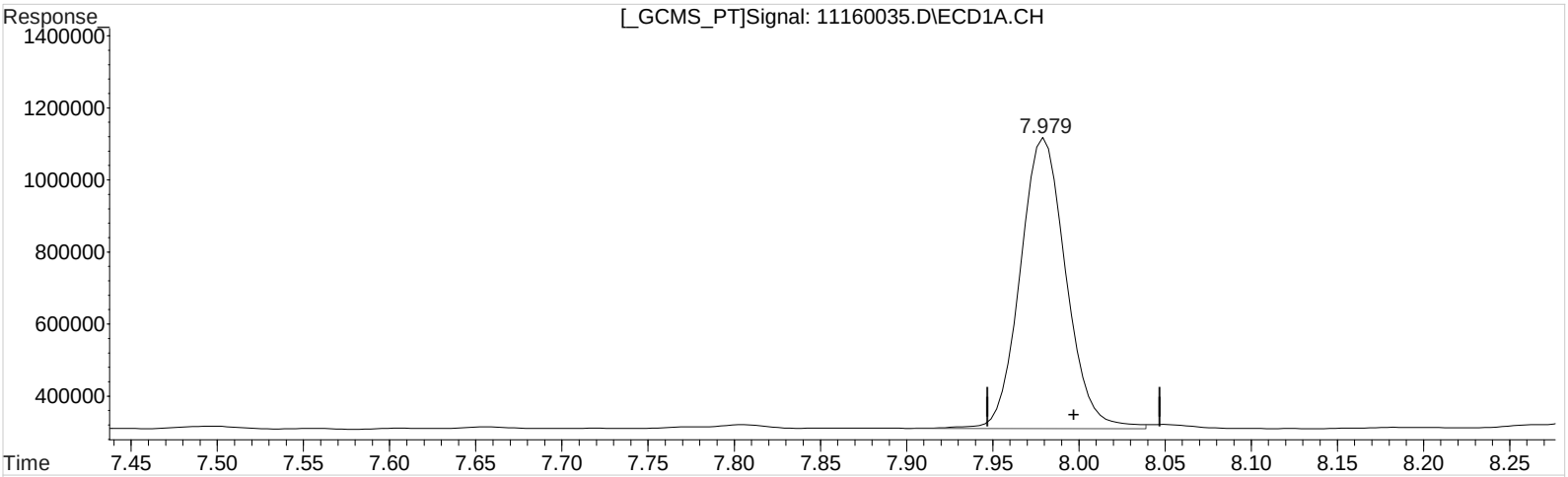


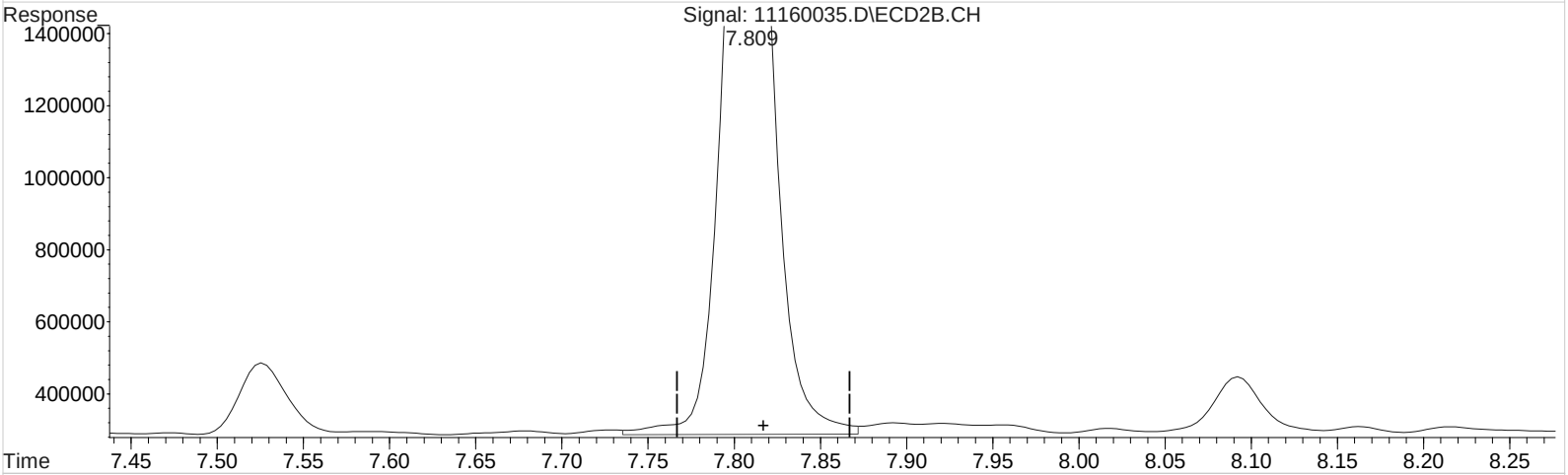
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160035.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:27 am Operator: UA
Sample : K2010070-014 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:00:28 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 17:31:59 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)

7.979min 81.902 ppb

response 1490332

Manual Integration:

Before

11/19/20

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

7.809min 98.725 ppb

response 4175868

(+) = Expected Retention Time

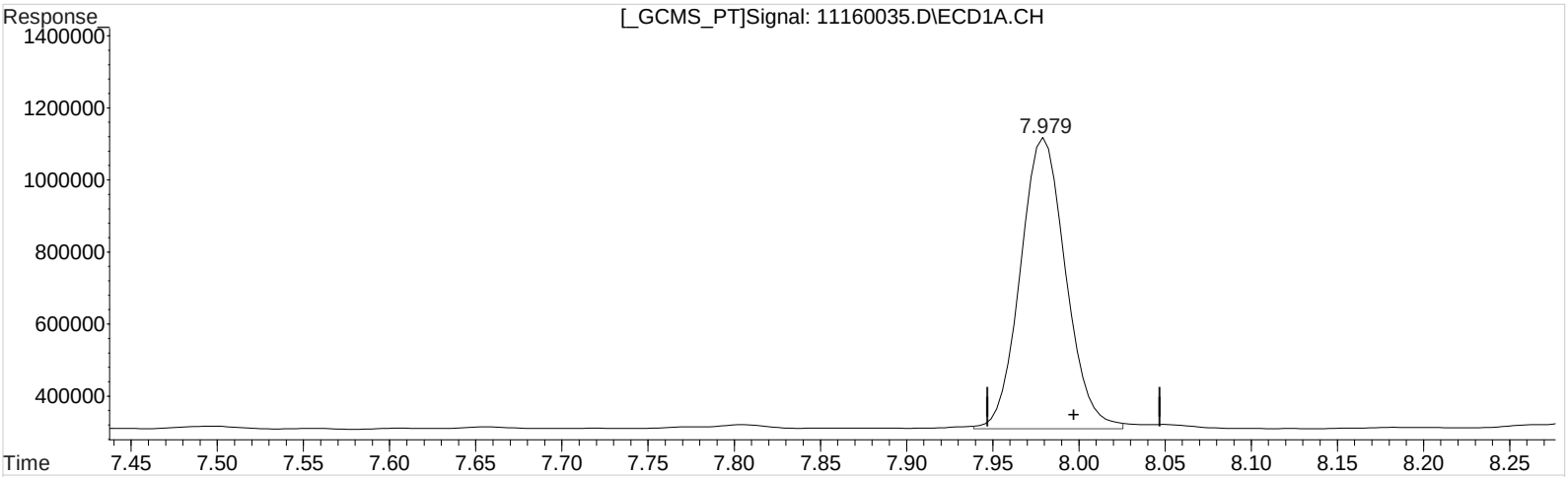
Quantitation Report (Qedit)

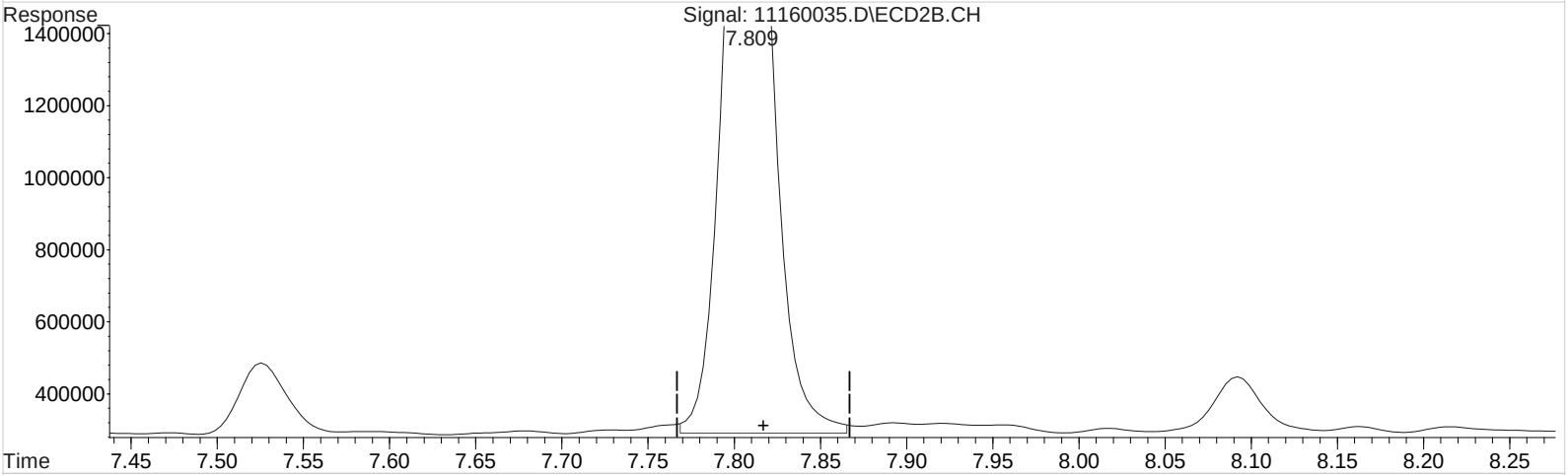
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160035.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:27 am Operator: UA
Sample : K2010070-014 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:00:28 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 17:31:59 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)

7.979min 81.253 ppb m

response 1478523

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.809min 96.973 ppb m

response 4101760

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160036.D\
Lab ID: K2010070-015
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 06:50:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	31		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	30		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160036.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 06:50:00	**Vial:**	25
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-015	**Raw Units:**	ppb

Bottle ID:	K2010070-015.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1600702	4386172	87.967	103.697	88	104	88	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	10.25 +0.01	10.12	24548	20782	0.262	0.102 CCV	0.44U	0.17U	2.4 U	Y
2,4-D	9.29 -0.01	9.03 -0.02	14287	63230	0.673	1.235 CCV	1.1U	2.1U	7.7 U	Y

Prep Amount:	30.045 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160036.D Vial: 50
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:50 am Operator: UA
Sample : K2010070-015 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:02:28 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 17:31:59 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...	7.984	7.810	1600702	4386172	87.967m	103.697m
	Target Compounds						
1) m	Dalapon	3.140	2.873	39940	431781	1.646	8.937 #
3) m	Dicamba	8.210	7.967	30350	14117	0.435	0.095 #
4) m	MCPP	8.314	8.097	27631	56413	1103.373	N.D. #
5) m	MCPA	8.597	8.343	8633	201685	147.440	N.D. #
6) m	Dichloroprop	8.960	8.690f	40017	46517	2.146	1.115 #
7) m	2,4-D	9.287	9.030	14287	63230	0.673	1.235 #
8) m	2,4,5-TP ...	10.254	10.120	24548	20782	0.262m	0.102m#
9) m	2,4,5-T	0.000	10.530	0	7697	N.D. d	0.040
10) m	2,4-DB	11.330	0.000	44467	0	4.334	N.D. d#
11) m	Dinoseb	11.650	0.000	129226	0	2.089	N.D. d#

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

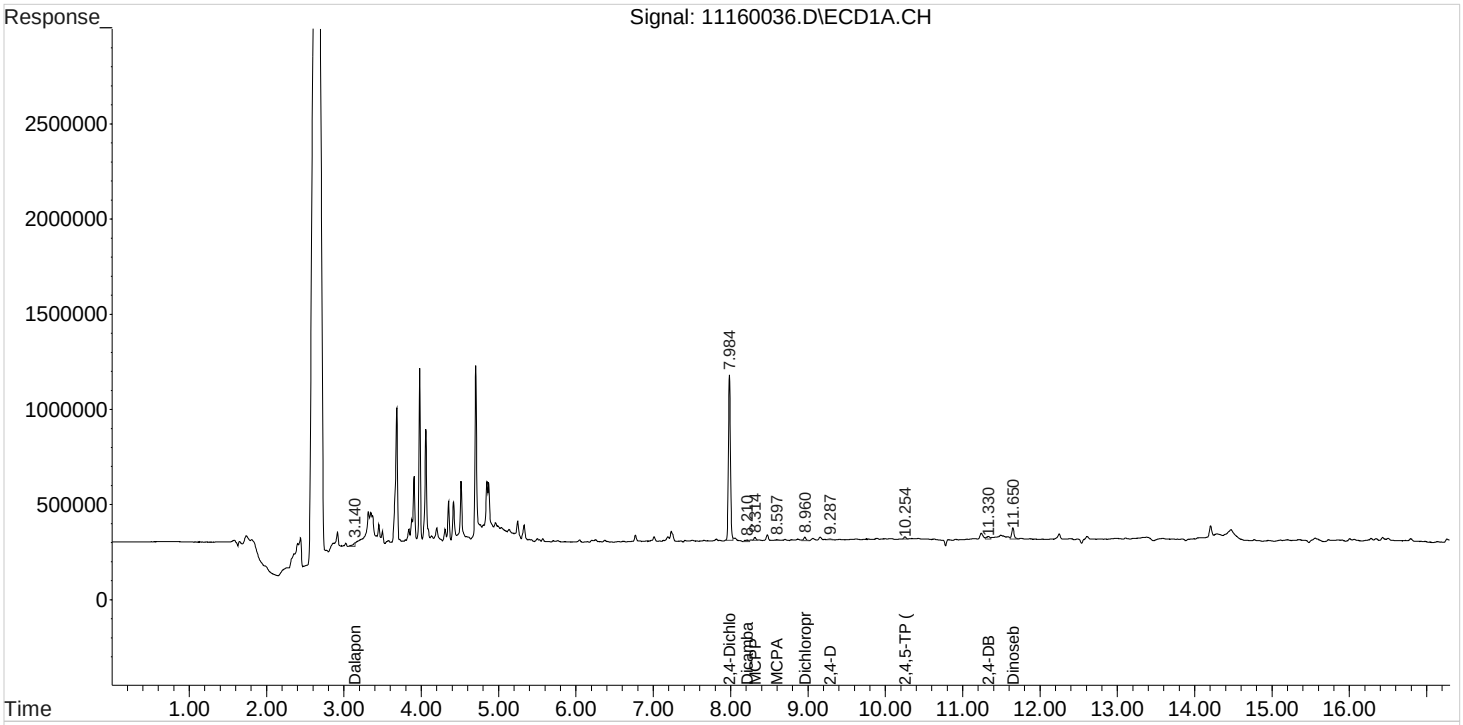
Quantitation Report (QT Reviewed)

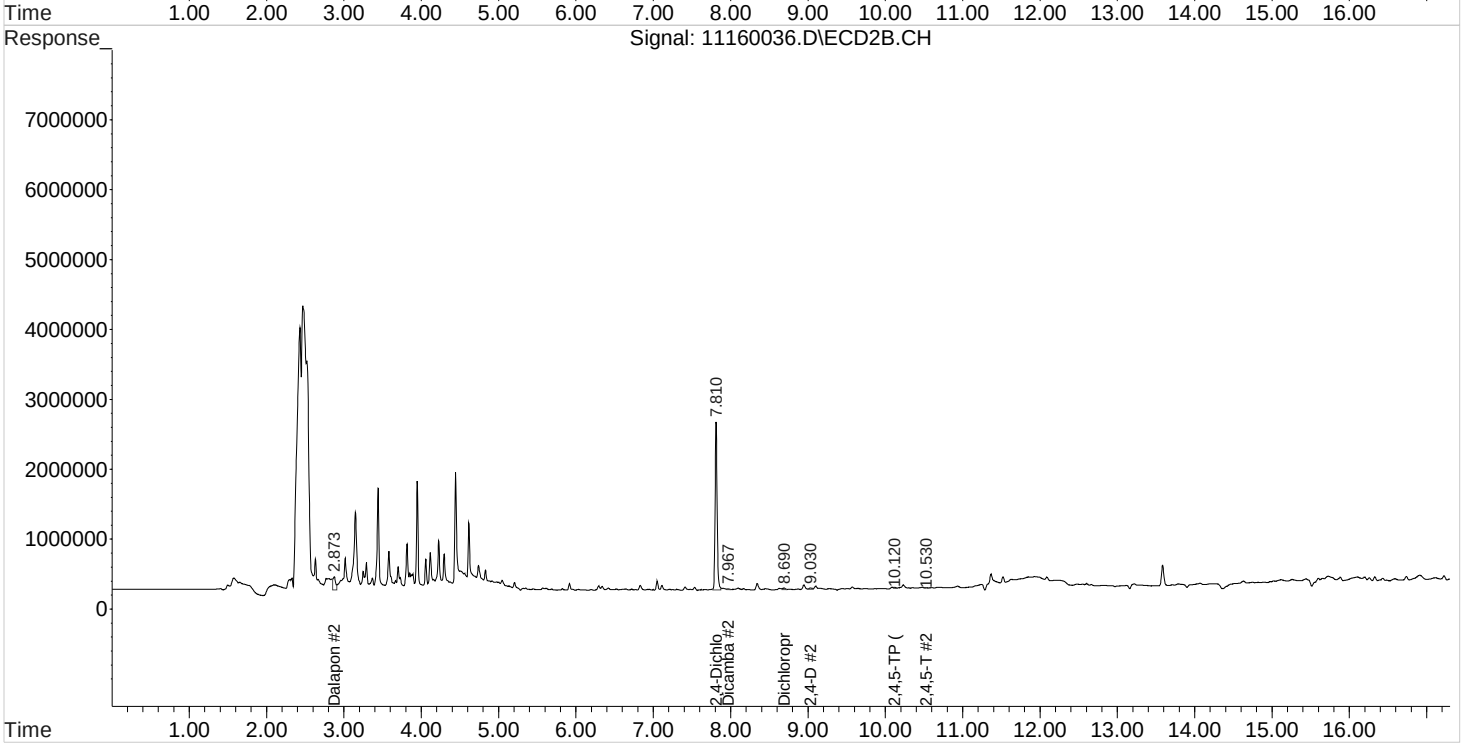
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160036.D Vial: 50
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:50 am Operator: UA
Sample : K2010070-015 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:02:28 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 17:31:59 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





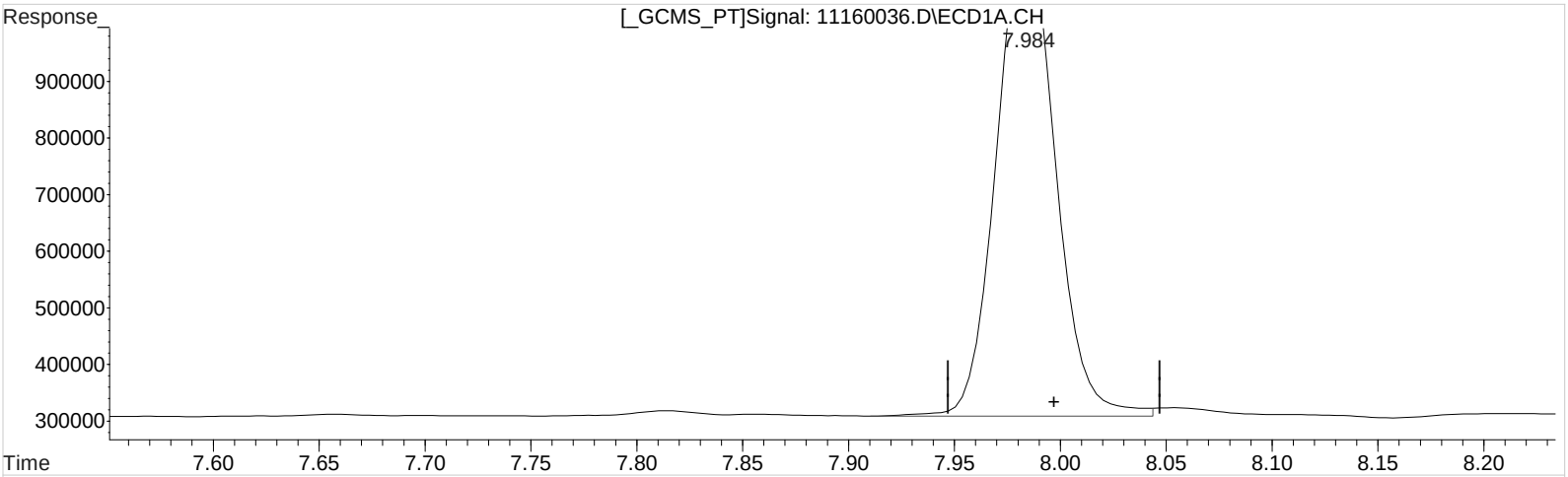
Quantitation Report (Qedit)

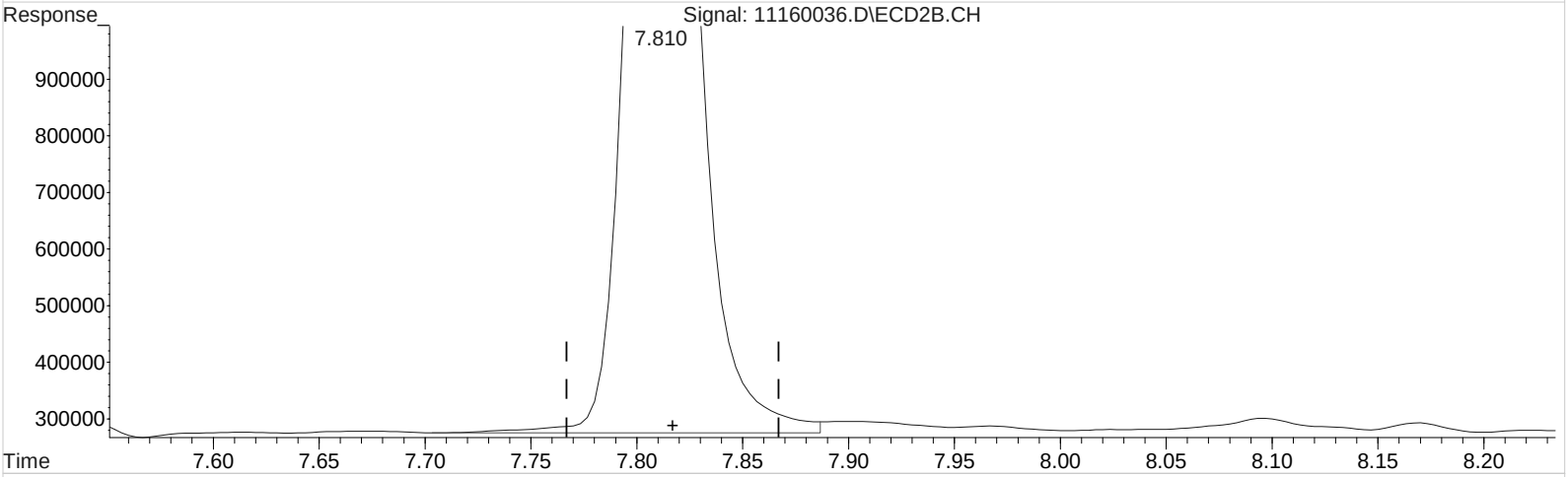
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160036.D Vial: 50
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:50 am Operator: UA
Sample : K2010070-015 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:01:13 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





QEdit

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

7.984min 90.124 ppb

response 1639957

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

7.810min 104.521 ppb

response 4421036

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

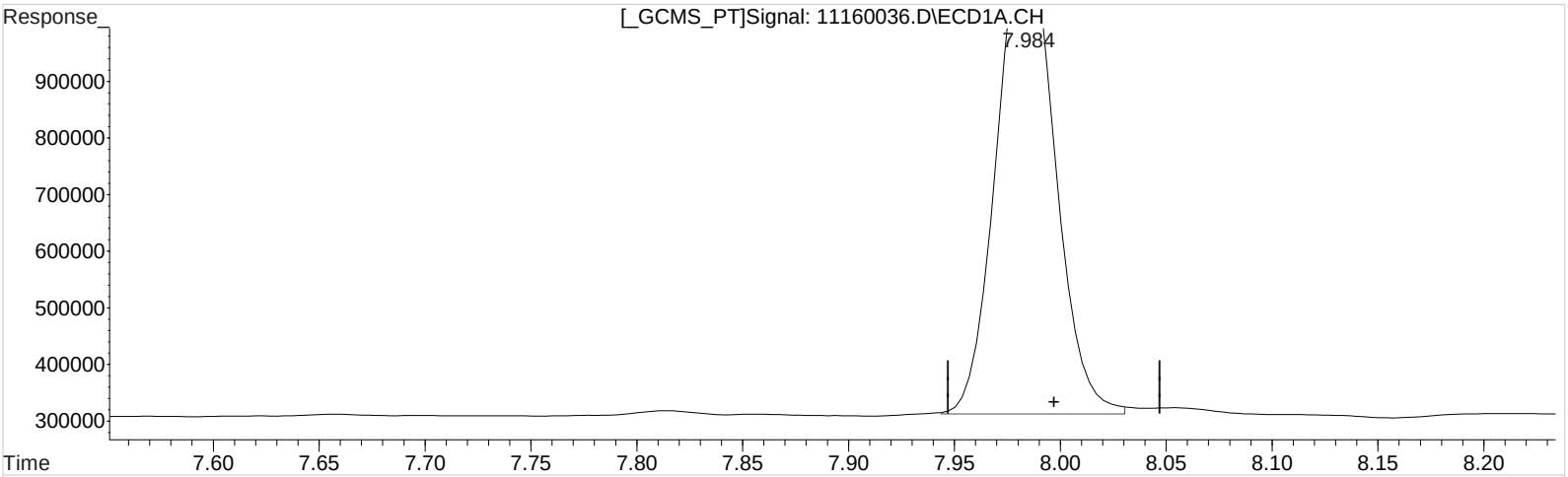
Quantitation Report (Qedit)

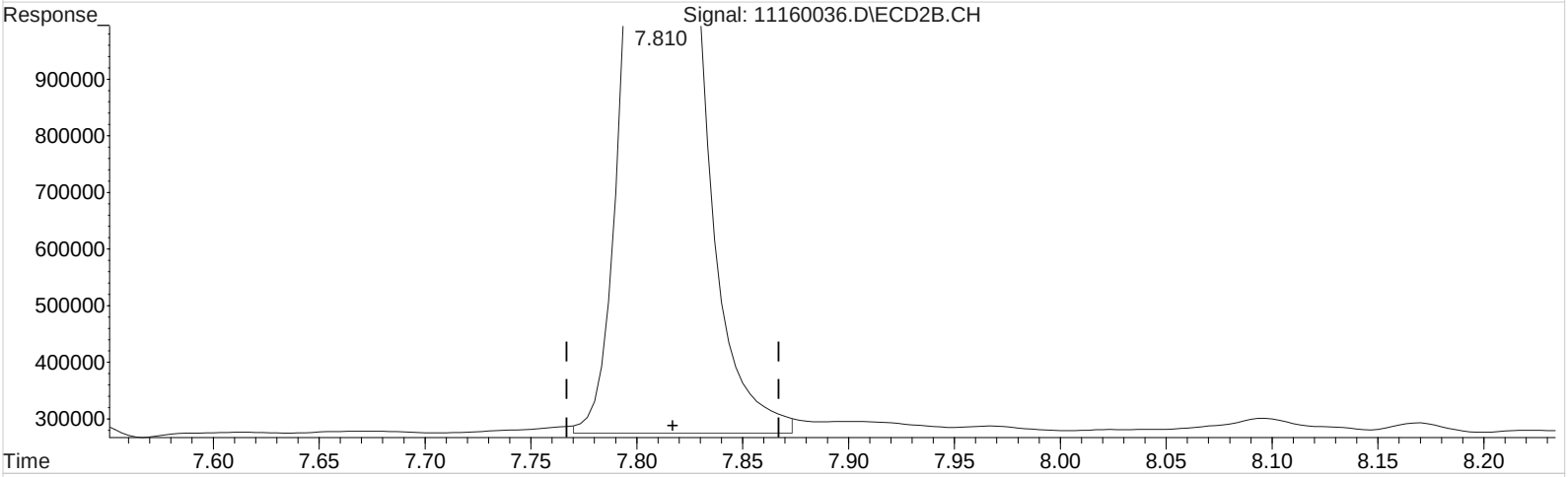
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160036.D Vial: 50
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:50 am Operator: UA
Sample : K2010070-015 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:01:13 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





QEdit

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

7.984min 87.967 ppb m

response 1600702

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.810min 103.697 ppb m

response 4386172

(+) = Expected Retention Time

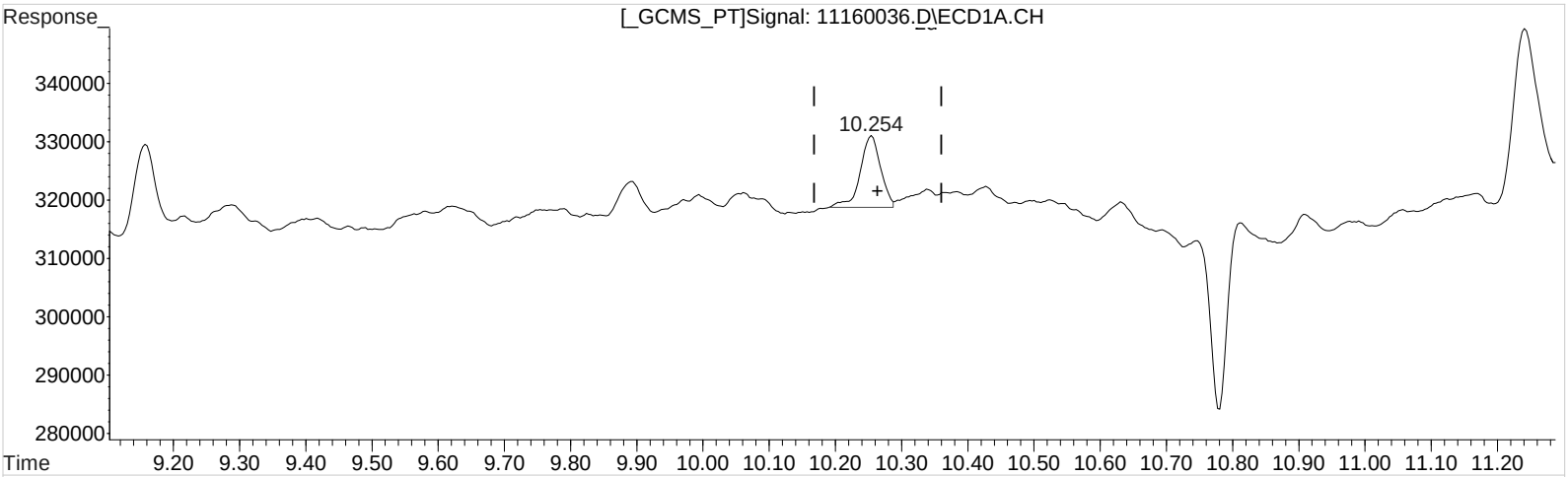
Quantitation Report (Qedit)

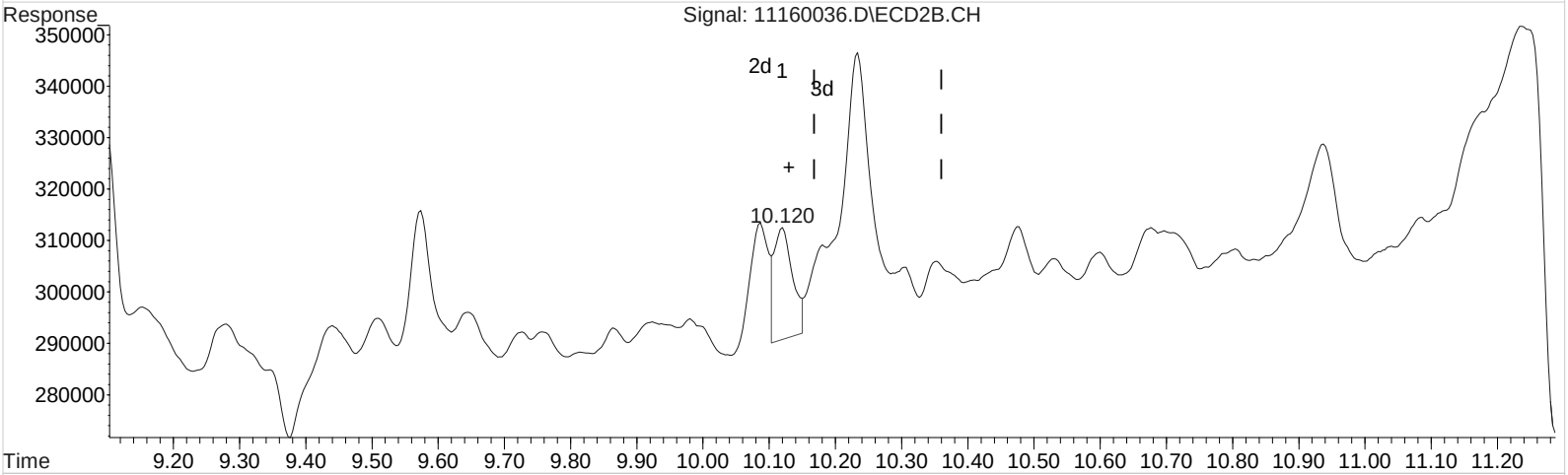
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160036.D Vial: 50
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:50 am Operator: UA
Sample : K2010070-015 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:01:13 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





QEdit

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

10.254min 0.283 ppb

response 26519

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

10.120min 0.206 ppb

response 41827

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

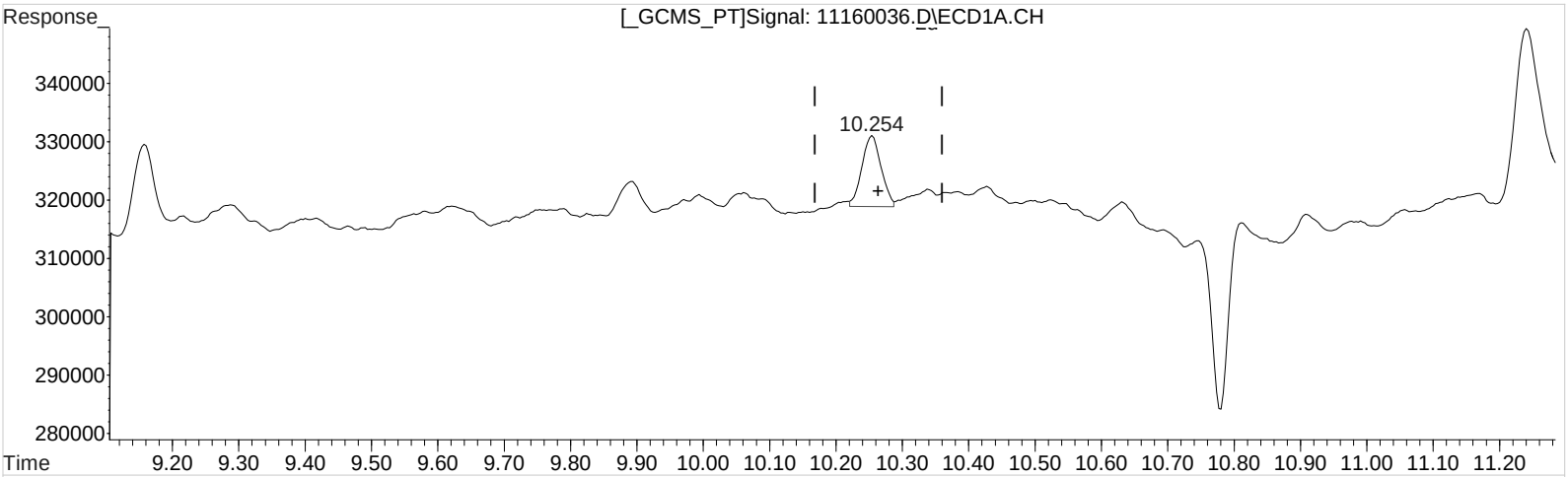
Quantitation Report (Qedit)

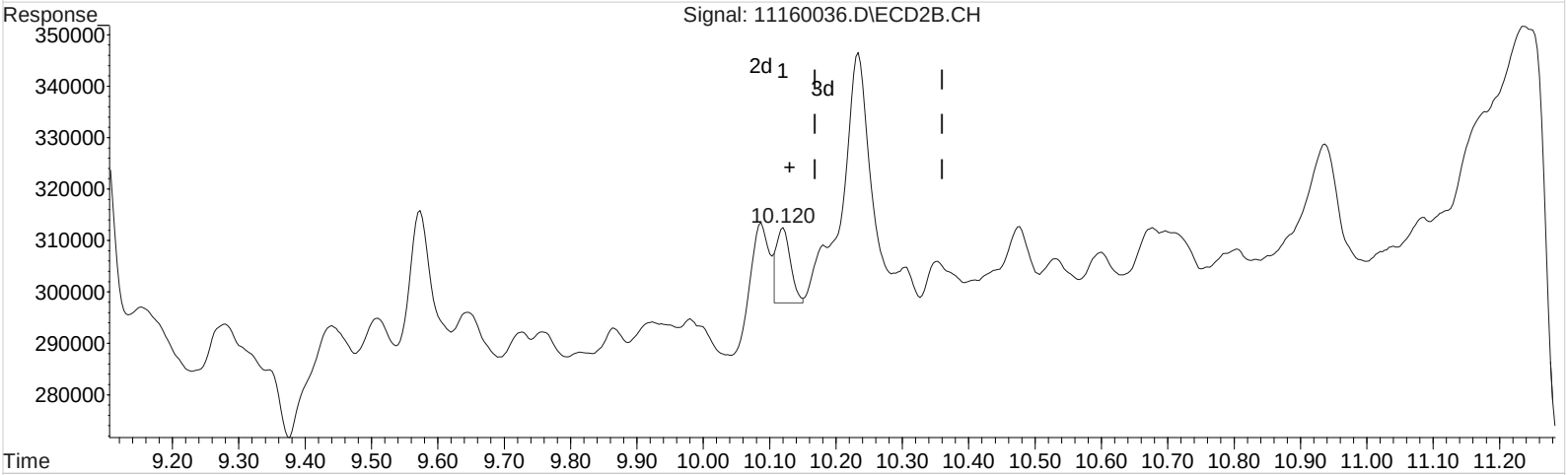
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160036.D Vial: 50
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 6:50 am Operator: UA
Sample : K2010070-015 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:01:13 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





QEdit

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

10.254min 0.262 ppb m

response 24548

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

10.120min 0.102 ppb m

response 20782

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160039.D\
Lab ID: K2010070-016
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 07:59:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	30		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160039.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 07:59:00	**Vial:**	26
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-016	**Raw Units:**	ppb

Bottle ID:	K2010070-016.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1620156	4487768	89.036	106.099	89	106	89	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	10.25	10.11 -0.01	32407	124923	0.346	0.615 CCV	0.58U	1.0U	2.4 U	Y
2,4-D	9.28 -0.03	9.03 -0.02	11840	40173	0.557	0.785 CCV	0.93U	1.3U	7.7 U	Y

Prep Amount:	30.027 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160039.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:59 am Operator: UA
Sample : K2010070-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:05:30 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 17:31:59 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...	7.983	7.809	1620156	4487768	89.036	106.099	
	Target Compounds							
1) m	Dalapon	3.139	2.872	14897	29726	0.614	0.615	
3) m	Dicamba	8.196	7.922	20269	55826	0.290	0.377	#
4) m	MCPP	8.309	8.096	116303	214157	3011.521	61.369	#
5) m	MCPA	8.583	8.339	9564	203471	163.341	N.D.	#
6) m	Dichloroprop	8.956	8.762	30412	11777	1.631	0.282	#
7) m	2,4-D	9.279	9.026	11840	40173	0.557	0.785	#
8) m	2,4,5-TP ...	10.249	10.109	32407	124923	0.346m	0.615	#
9) m	2,4,5-T	10.686	10.526	19184	12341	0.233	0.064	#
10) m	2,4-DB	11.323	0.000	42923	0	4.184	N.D.	d#
11) m	Dinoseb	11.643	0.000	116181	0	1.878	N.D.	d#

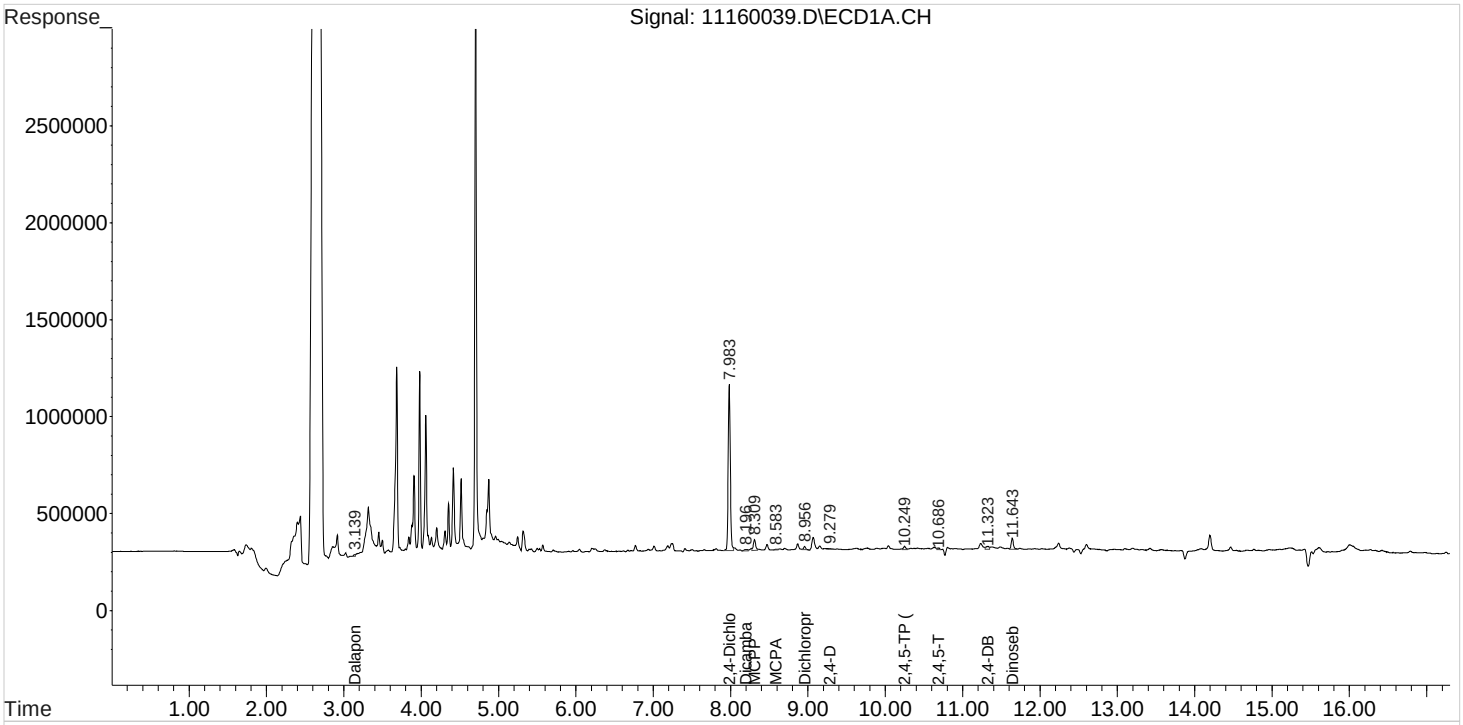
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

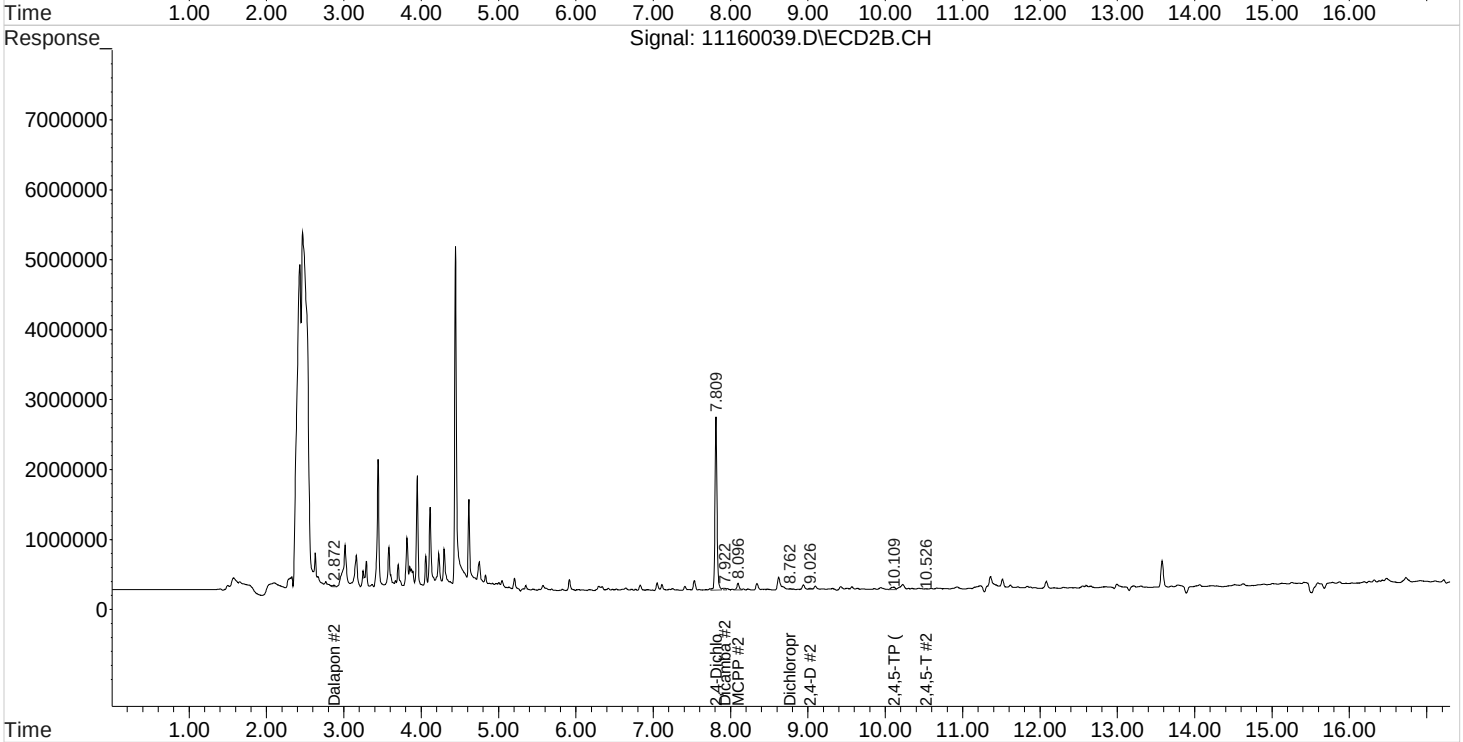
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160039.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:59 am Operator: UA
Sample : K2010070-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:05:30 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 17:31:59 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





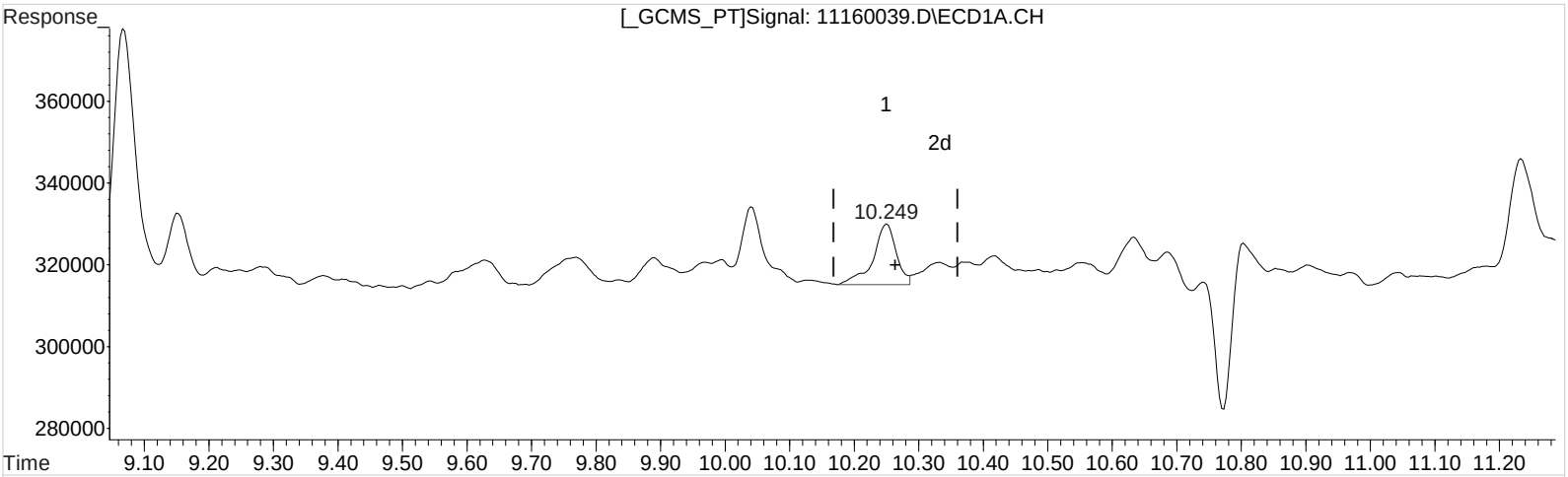
Quantitation Report (Qedit)

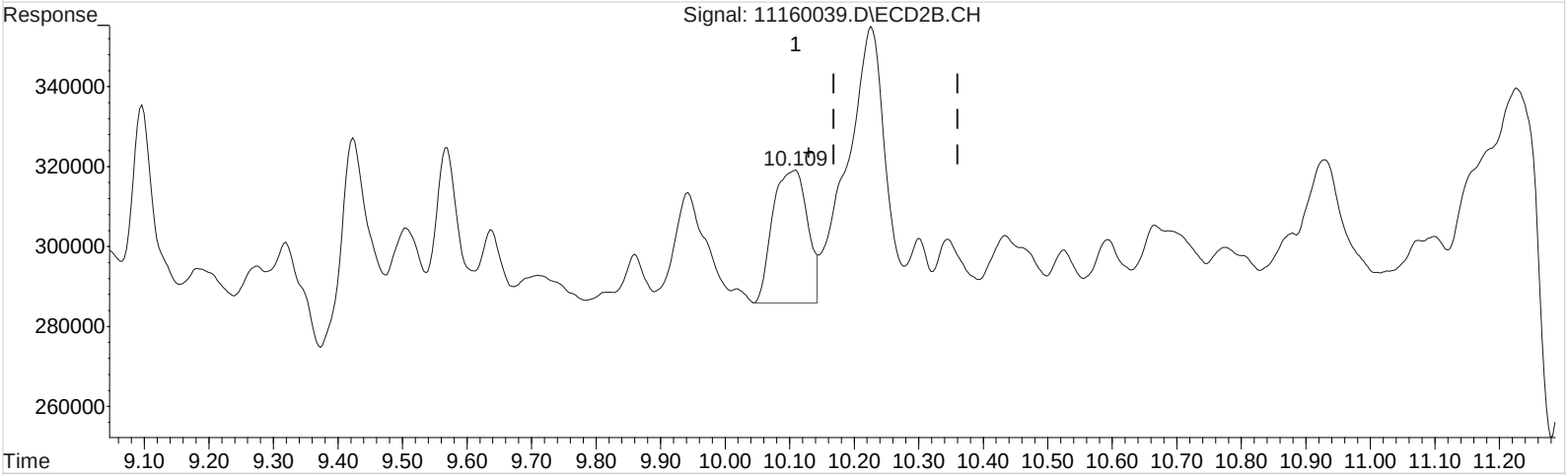
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160039.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:59 am Operator: UA
Sample : K2010070-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:04:58 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





QEdit

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

10.249min 0.396 ppb

response 37142

Manual Integration:

Before

11/19/20

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

10.109min 0.615 ppb

response 124923

(+) = Expected Retention Time

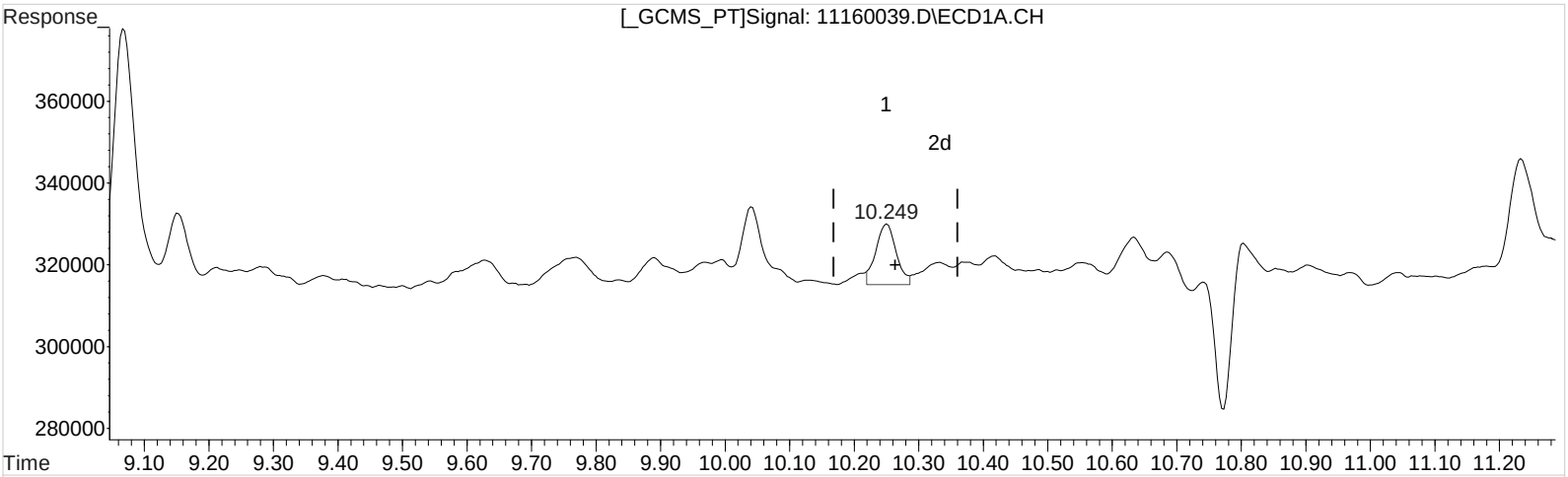
Quantitation Report (Qedit)

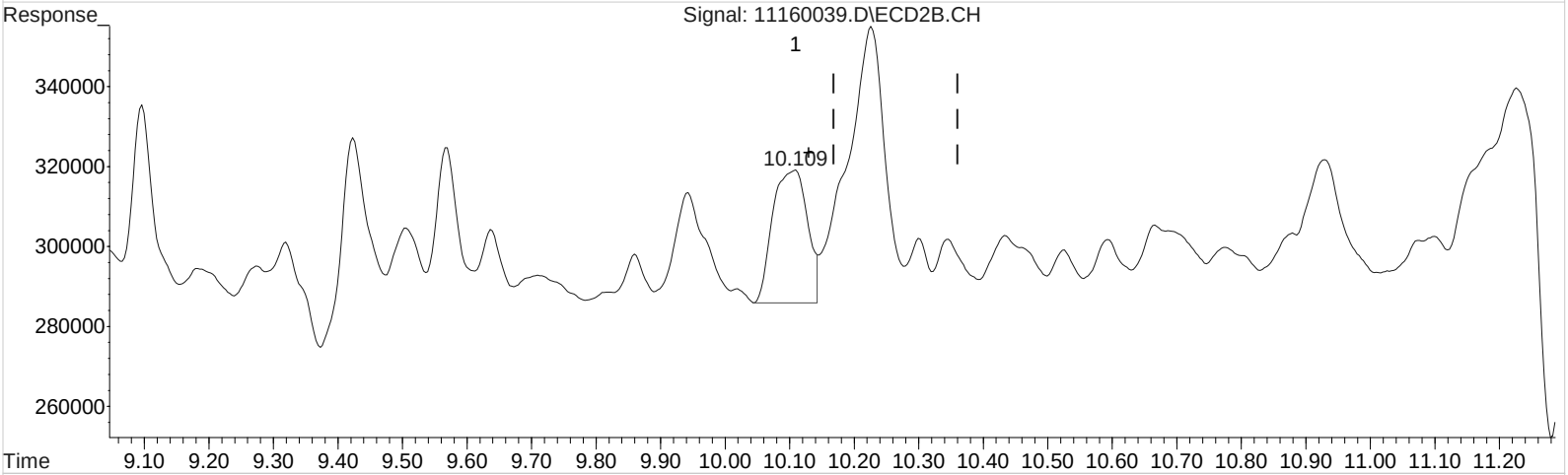
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160039.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:59 am Operator: UA
Sample : K2010070-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:04:58 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





QEdit

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

10.249min 0.346 ppb m

response 32407

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

10.109min 0.615 ppb

response 124923

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160040.D\
Lab ID: K2010070-017
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 08:22:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	30		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160040.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 08:22:00	**Vial:**	27
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-017	**Raw Units:**	ppb

Bottle ID:	K2010070-017.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1660089	4620929	91.231	109.247	91	109	91	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	10.25	10.08 -0.04	22010	79303	0.235	0.391 CCV	0.39U	0.65U	2.4 U	Y
2,4-D	9.31	9.03 -0.02	4265	39379	0.201	0.769 CCV	0.33U	1.3U	7.7 U	Y

Prep Amount:	30.077 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160040.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 8:22 am Operator: UA
Sample : K2010070-017 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:11:07 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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.982	7.812	1660089	4620929	91.231m	109.247m	
	Target Compounds							
1) m	Dalapon	3.139	2.879	19327	286965	0.797	5.940	#
3) m	Dicamba	8.202	7.962	13756	29835	0.197	0.201	
4) m	MCPP	8.309	8.095	49915	108825	1582.906	N.D.	#
5) m	MCPA	8.589	8.342	8822	225370	150.668	N.D.	#
6) m	Dichloroprop	8.959	8.772	43151	18971	2.314	0.455	#
7) m	2,4-D	9.306	9.032	4265	39379	0.201	0.769	#
8) m	2,4,5-TP ...	10.249	10.082	22010	79303	0.235	0.391	#
9) m	2,4,5-T	10.692	10.525	7791	8481	0.094	0.044	#
10) m	2,4-DB	11.326	11.159	17057	39649	1.663	1.366	
11) m	Dinoseb	11.642	0.000	84992	0	1.374	N.D.	d#

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

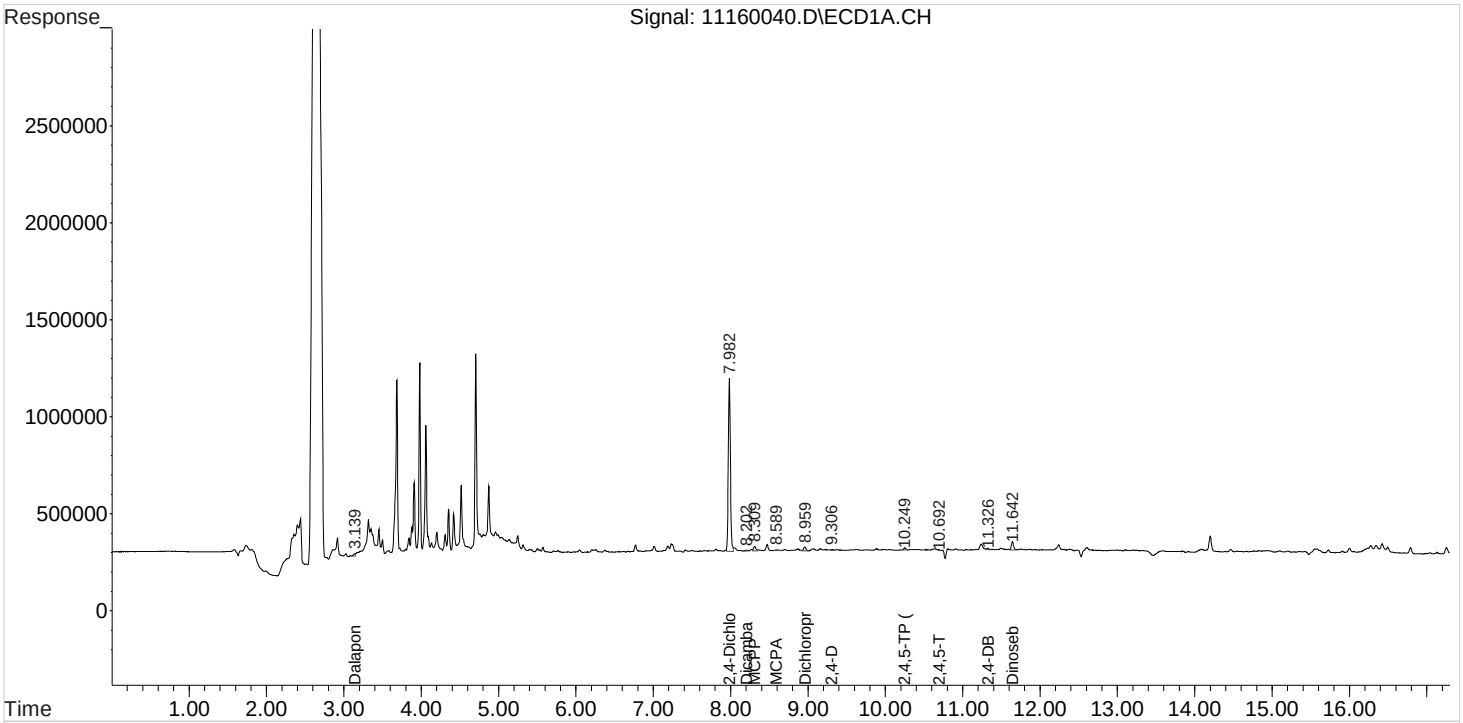
Quantitation Report (QT Reviewed)

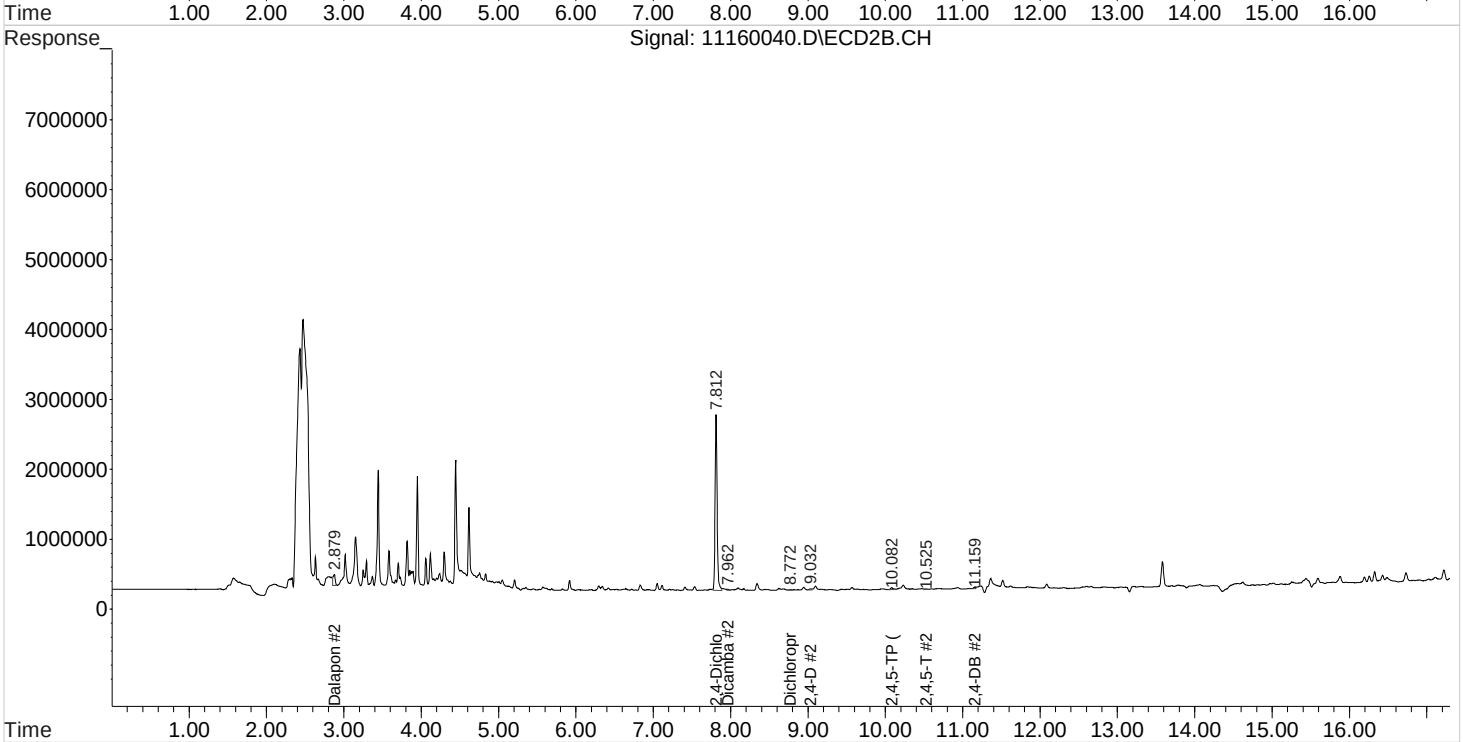
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160040.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 8:22 am Operator: UA
Sample : K2010070-017 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:11:07 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





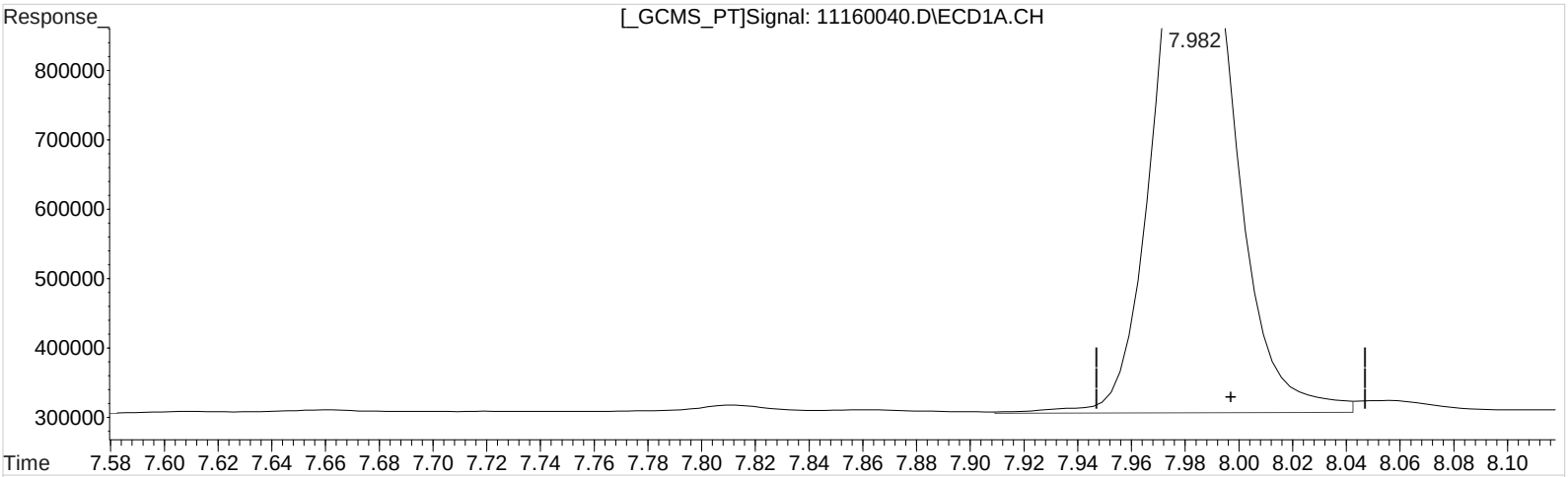
Quantitation Report (Qedit)

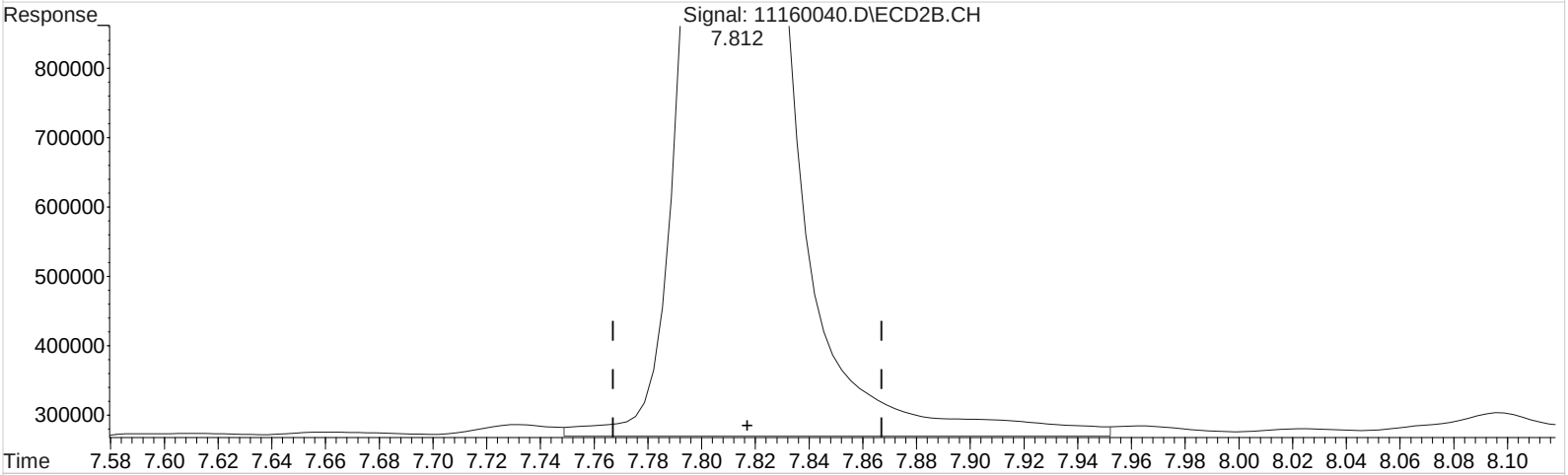
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160040.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 8:22 am Operator: UA
Sample : K2010070-017 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:10:11 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)

7.982min 92.171 ppb

response 1677208

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

7.812min 111.668 ppb

response 4723298

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

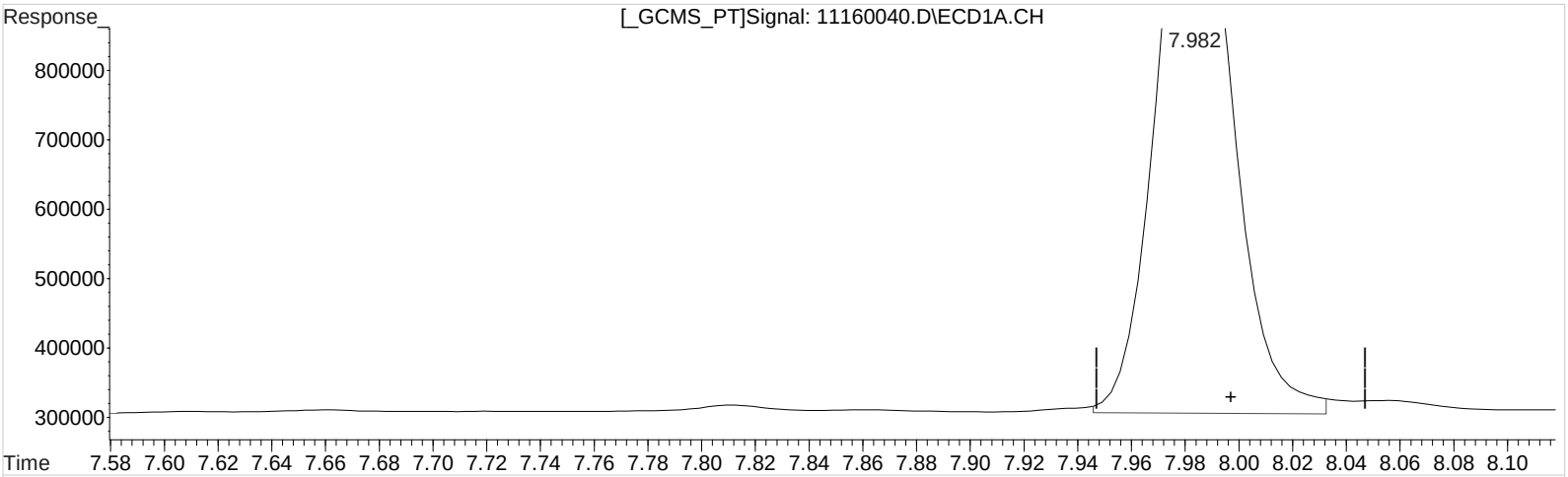
Quantitation Report (Qedit)

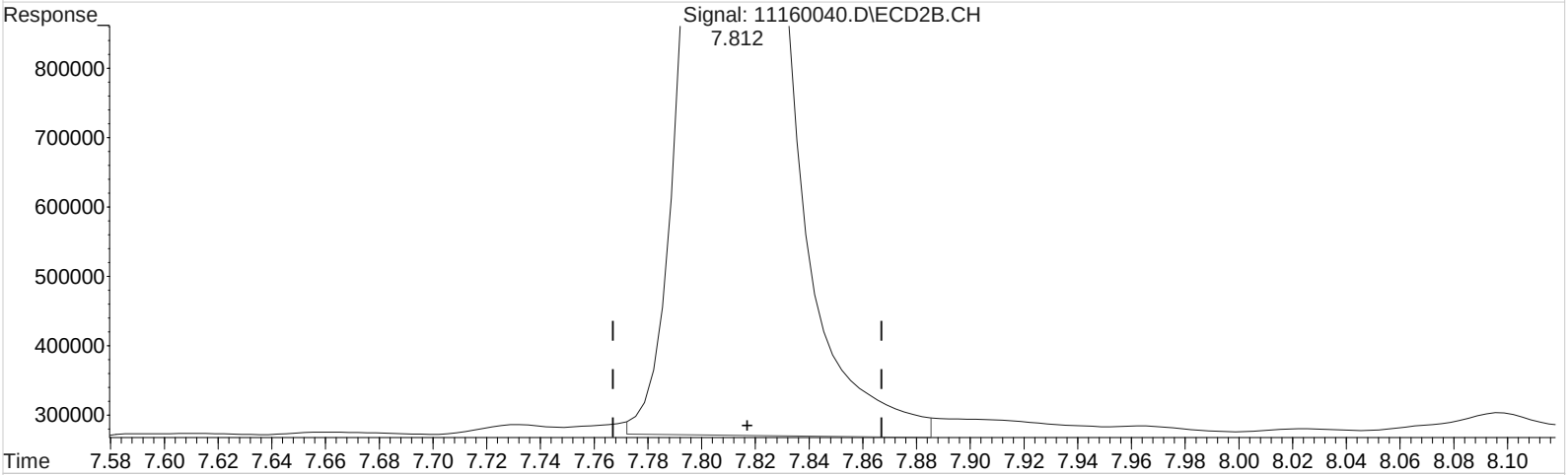
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160040.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 8:22 am Operator: UA
Sample : K2010070-017 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:10:11 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)

7.982min 91.231 ppb m

response 1660089

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.812min 109.247 ppb m

response 4620929

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160041.D\
Lab ID: K2010070-018
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 08:44:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	30		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160041.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 08:44:00	**Vial:**	28
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-018	**Raw Units:**	ppb

Bottle ID:	K2010070-018.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1549488	4277257	85.153	101.122	85	101	85	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	10.25	10.11 -0.01	25668	17684	0.274	0.087 CCV	0.46U	0.14U	2.4 U	Y
2,4-D	9.29 -0.02	9.03 -0.02	14603	33297	0.688	0.650 CCV	1.1U	1.1U	7.7 U	Y

Prep Amount:	30.044 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160041.D Vial: 53
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 8:44 am Operator: UA
Sample : K2010070-018 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:11:33 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 17:31:59 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...	7.982	7.812	1549488	4277257	85.153	101.122	
	Target Compounds							
1) m	Dalapon	3.139	2.876	14644	52288	0.604	1.082	#
3) m	Dicamba	8.186	7.906	26567	50643	0.381	0.342	
4) m	MCPP	8.309	8.095	28199	104321	1115.596	N.D.	#
5) m	MCPA	8.633f	8.339	10230	206143	174.715	N.D.	#
6) m	Dichloroprop	8.959	8.775	41453	2764	2.223	0.066	#
7) m	2,4-D	9.286	9.032	14603	33297	0.688	0.650	
8) m	2,4,5-TP ...	10.249	10.112	25668	17684	0.274	0.087	#
9) m	2,4,5-T	10.686	10.525	7447	9275	0.090	0.048	#
10) m	2,4-DB	11.326	11.169	14812	34737	1.444	1.197	
11) m	Dinoseb	11.643	0.000	96006	0	1.552	N.D.	d#

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

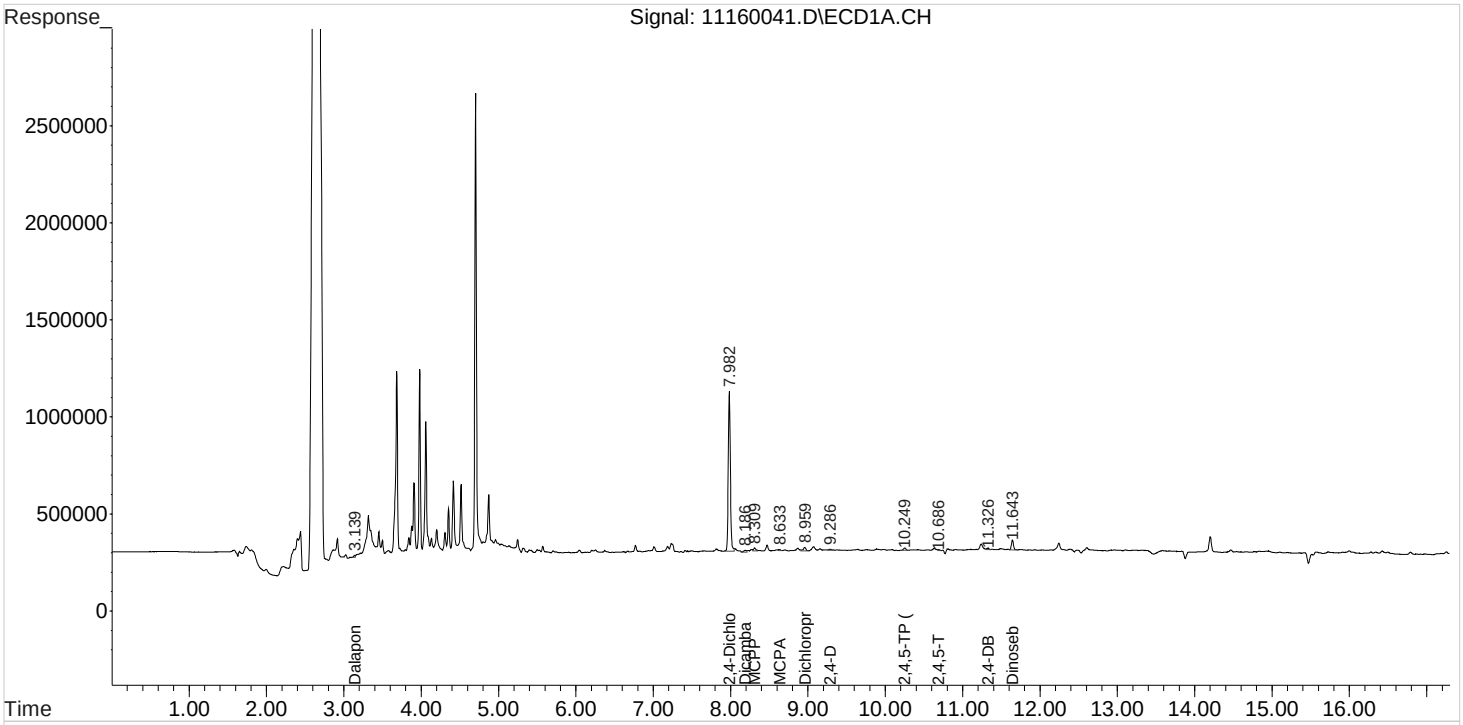
Quantitation Report (QT Reviewed)

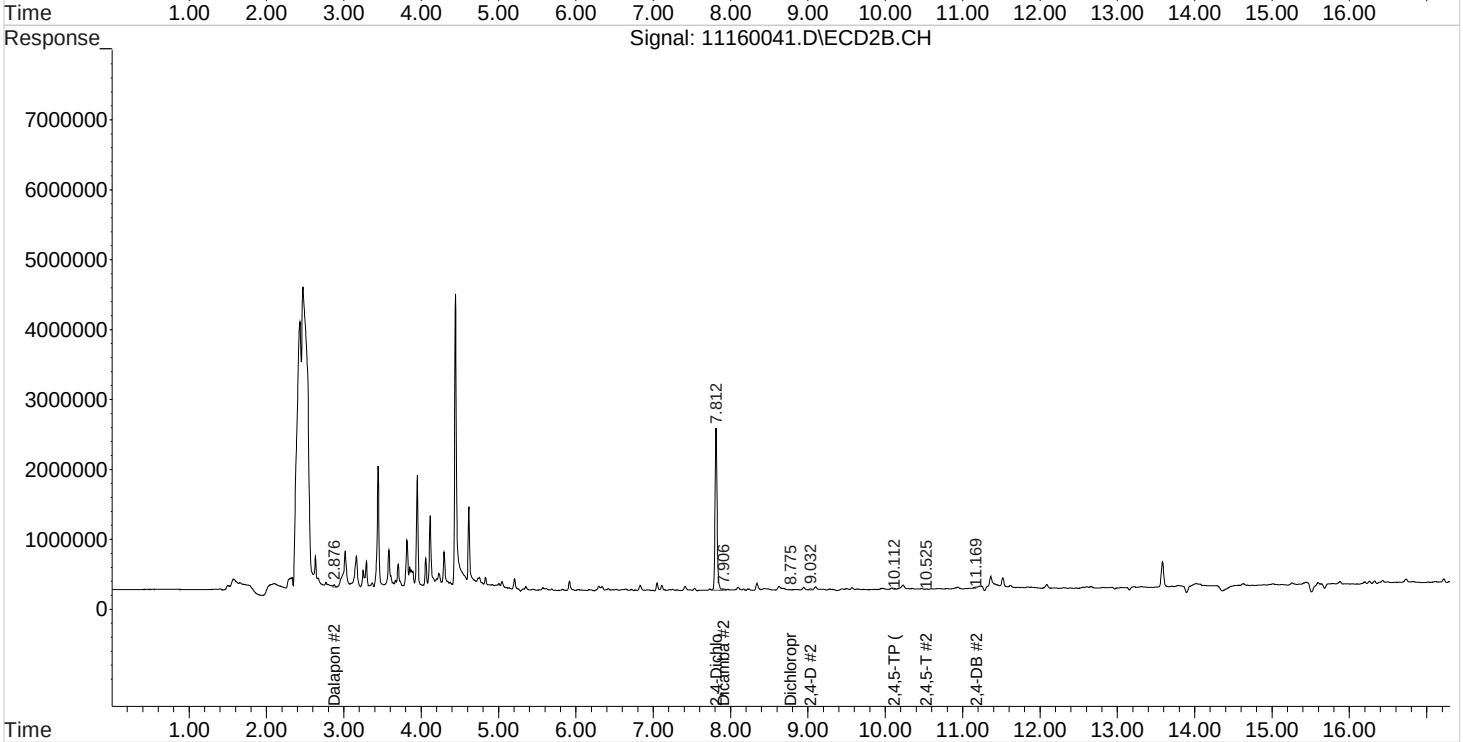
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160041.D Vial: 53
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 8:44 am Operator: UA
Sample : K2010070-018 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:11:33 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 17:31:59 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 UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160042.D\
Lab ID: K2010070-019
RunType: N/A
Matrix: Sediment

Date Acquired: 11/17/20 09:07:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	30		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160042.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 09:07:00	**Vial:**	29
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010070-019	**Raw Units:**	ppb

Bottle ID:	K2010070-019.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	K2010070
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1596396	4350904	87.730	102.863	88	103	88	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	10.25	10.10 -0.02	22880	125113	0.244	0.616 CCV	0.40U	1.0U	2.4 U	Y
2,4-D	9.29 -0.02	9.03 -0.02	14896	54194	0.701	1.059 CCV	1.2U	1.8U	7.7 U	Y

Prep Amount:	30.162 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160042.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:07 am Operator: UA
Sample : K2010070-019 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:11:41 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 17:31:59 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...	7.984	7.813	1596396	4350904	87.730	102.863	
	Target Compounds							
1) m	Dalapon	3.140	2.877	14188	144926	0.585	3.000	#
3) m	Dicamba	8.220	7.927	3415	12757	0.049	0.086	#
4) m	MCPP	8.310	8.097	110548	167459	2887.678	N.D.	#
5) m	MCPA	8.594	8.343	10166	211462	173.622	N.D.	#
6) m	Dichloroprop	8.960	8.777	31954	54898	1.714	1.316	
7) m	2,4-D	9.294	9.030	14896	54194	0.701	1.059	#
8) m	2,4,5-TP ...	10.254	10.097	22880	125113	0.244	0.616	#
9) m	2,4,5-T	10.684	10.527	16669	11060	0.202	0.058	#
10) m	2,4-DB	11.327	11.167	28020	37107	2.731	1.279	#
11) m	Dinoseb	11.647	11.323	93890	105889	1.518	0.774	#

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

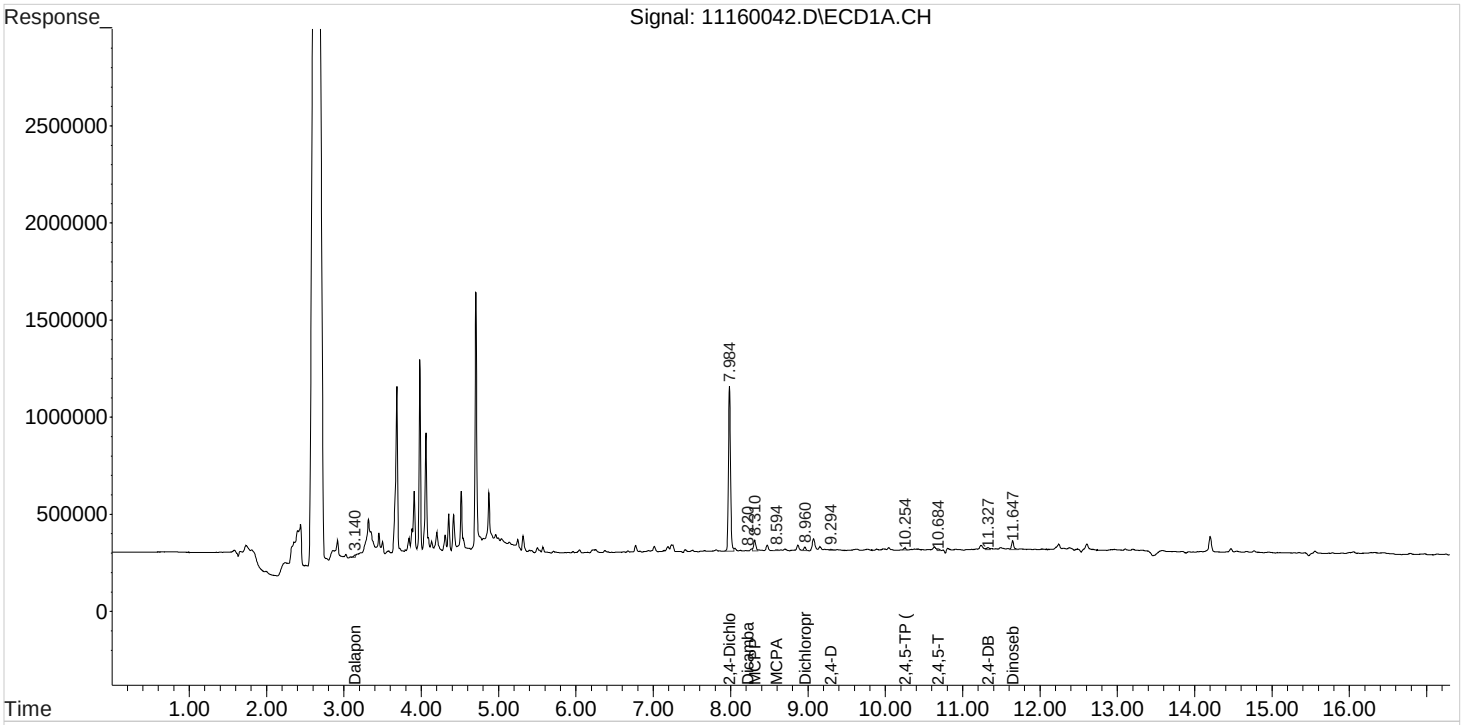
Quantitation Report (QT Reviewed)

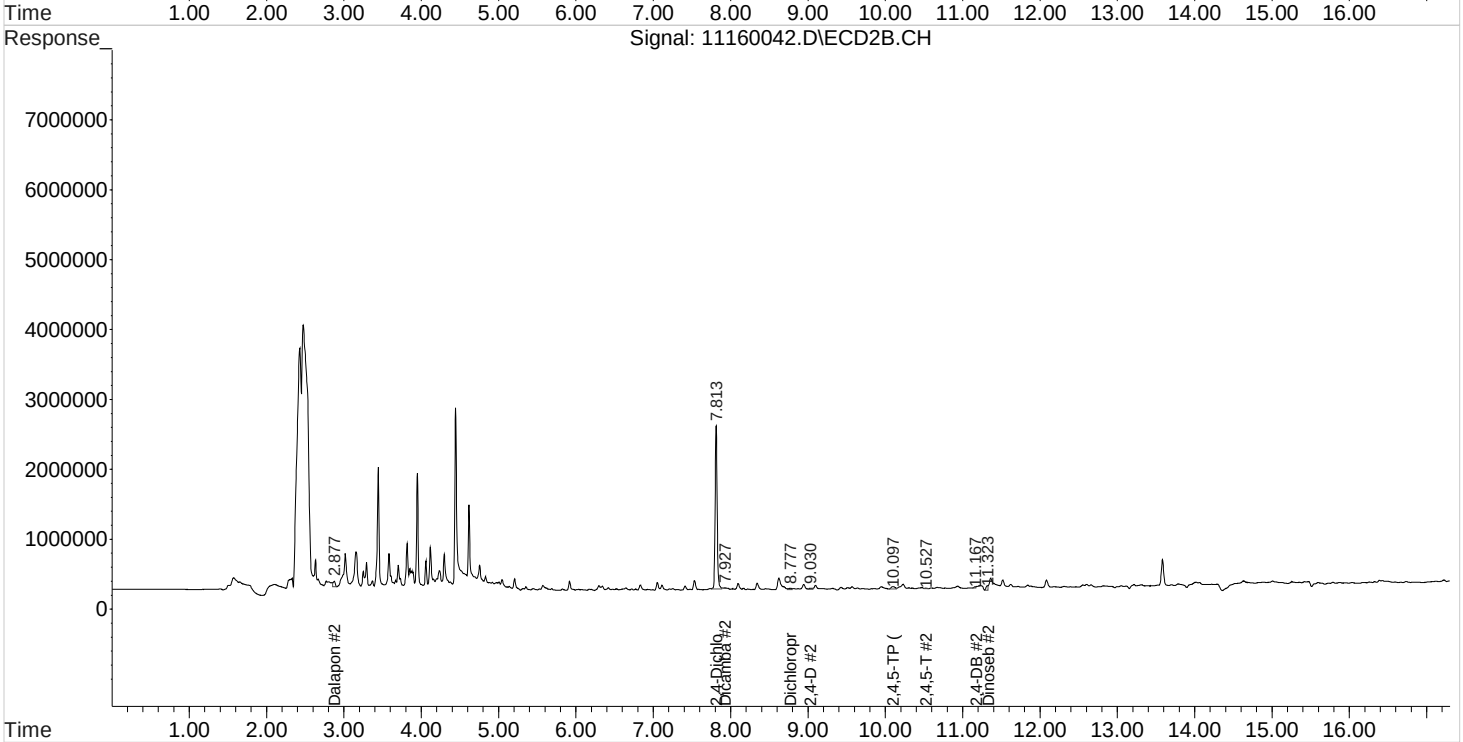
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160042.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:07 am Operator: UA
Sample : K2010070-019 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:11:41 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 17:31:59 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 UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160018.D\
Lab ID: KQ2017248-04
RunType: MB
Matrix: Sediment

Date Acquired: 11/16/20 23:59:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160018.D\	**Instrument:**	K-GC-24
Acqu Date:	11/16/20 23:59:00	**Vial:**	33
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2017248-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	KQ2017248
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1495828	4186082	82.204	98.967	82	99	82	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25 +0.01	10.12	55995	42800	0.598	0.211 CCV	0.99U	0.35U	2.4 U	Y
2,4-D	9.32 +0.02	9.02 -0.03	5914	17743	0.278	0.347 CCV	0.46U	0.57U	7.7 U	Y

Prep Amount:	30.2070 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160018.D Vial: 34
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 11:59 pm Operator: UA
Sample : KQ2017248-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:36 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 17:31:59 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...	7.980	7.809	1495828	4186082	82.204m	98.967m	
	Target Compounds							
1) m	Dalapon	3.140	2.873	10314	180153	0.425	3.729	#
3) m	Dicamba	8.200	7.909	91409	120913	1.310	0.816	#
4) m	MCPP	8.313	8.093	8673	16733	695.412	N.D.	#
5) m	MCPA	8.586	8.336	2840	288289	48.503	N.D.	#
6) m	Dichloroprop	8.953	8.743	45327	23221	2.431	0.557	#
7) m	2,4-D	9.316	9.023	5914	17743	0.278	0.347	
8) m	2,4,5-TP ...	10.250	10.119	55995	42800	0.598	0.211	#
9) m	2,4,5-T	10.693	10.526	141694	70711	1.717	0.370	#
10) m	2,4-DB	11.323	11.159	44378	124213	4.326	4.281	
11) m	Dinoseb	11.643	11.313	106872	138470	1.727	1.013	#

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

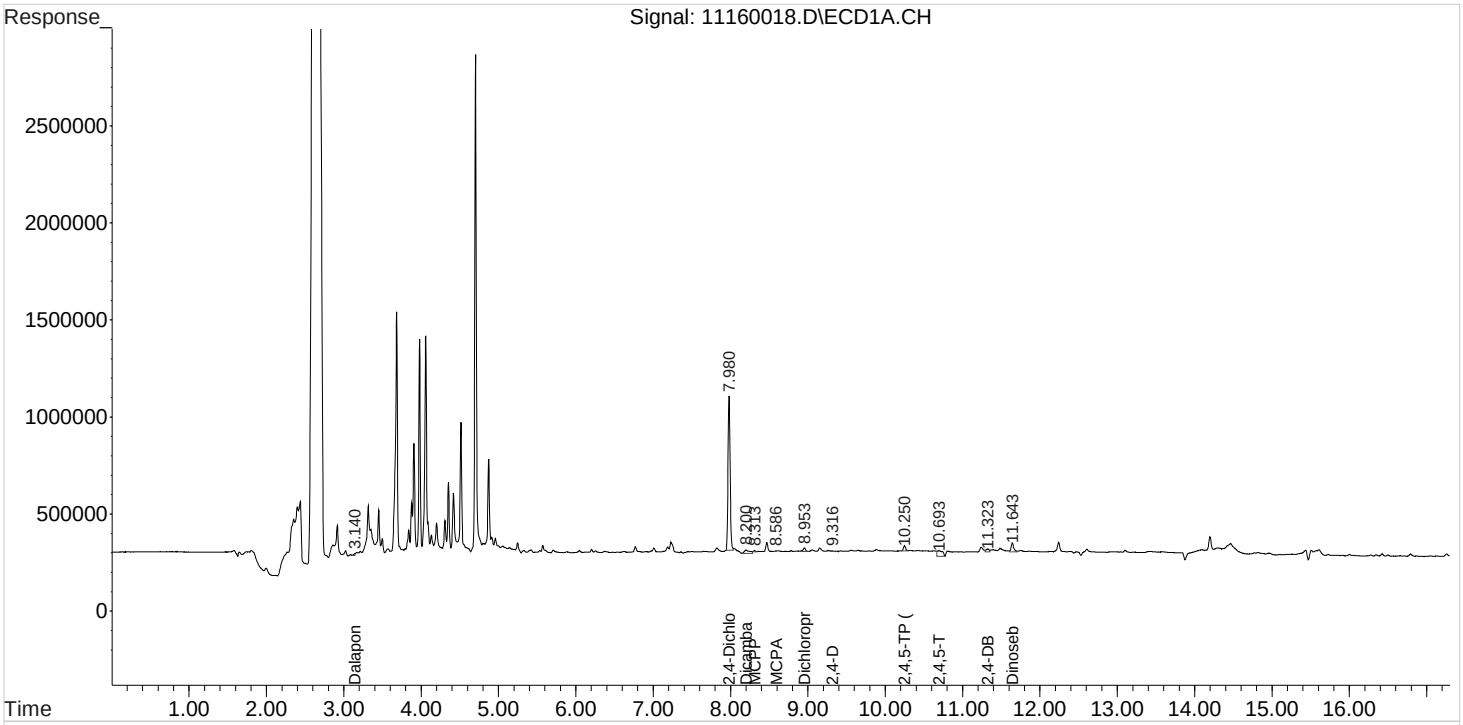
Quantitation Report (QT Reviewed)

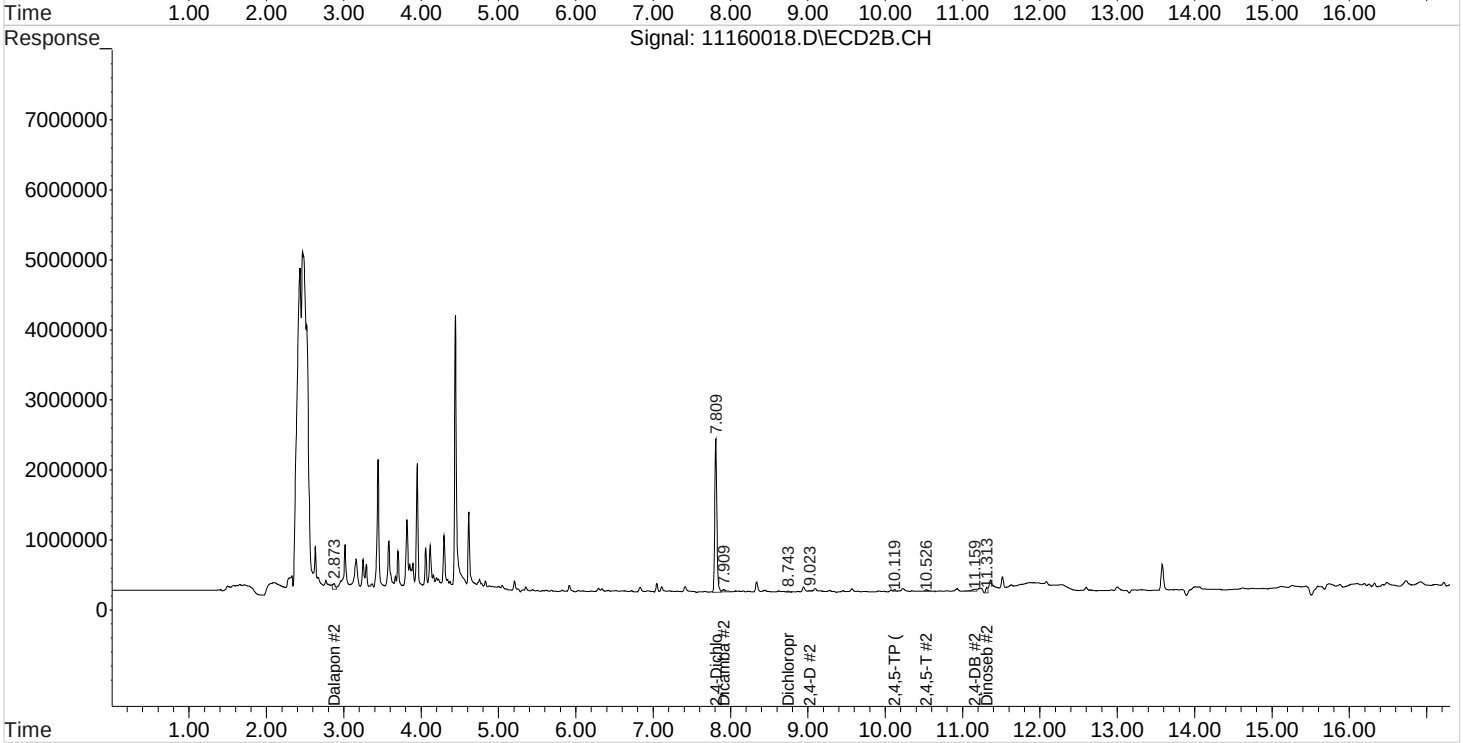
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160018.D Vial: 34
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 11:59 pm Operator: UA
Sample : KQ2017248-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:36 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 17:31:59 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





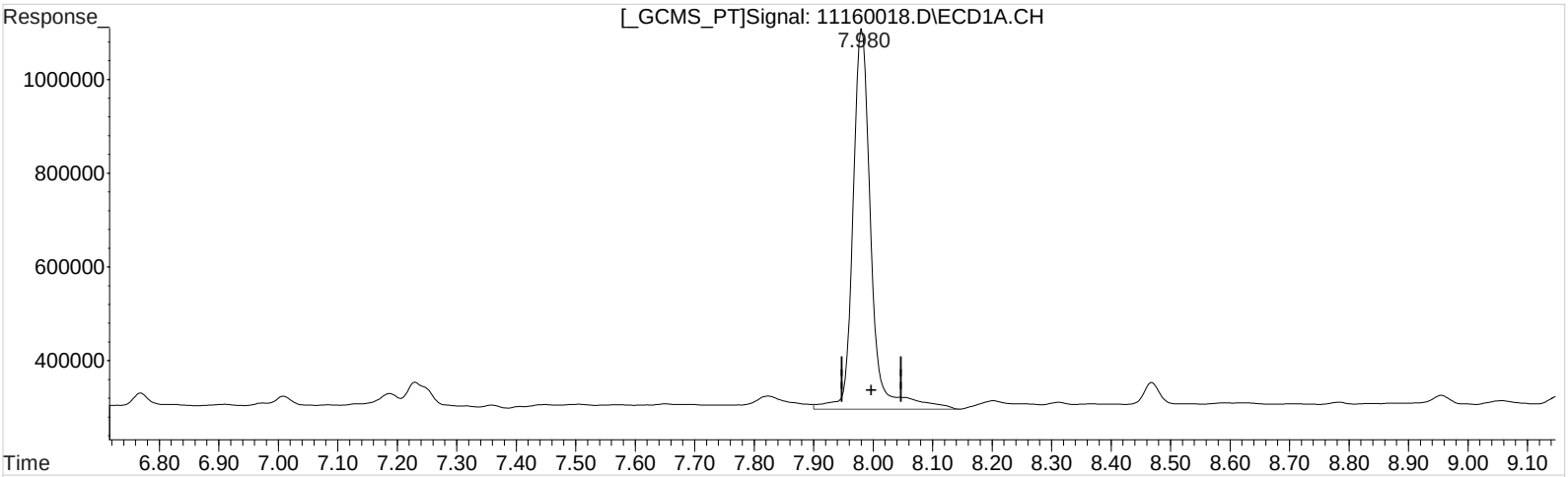
Quantitation Report (Qedit)

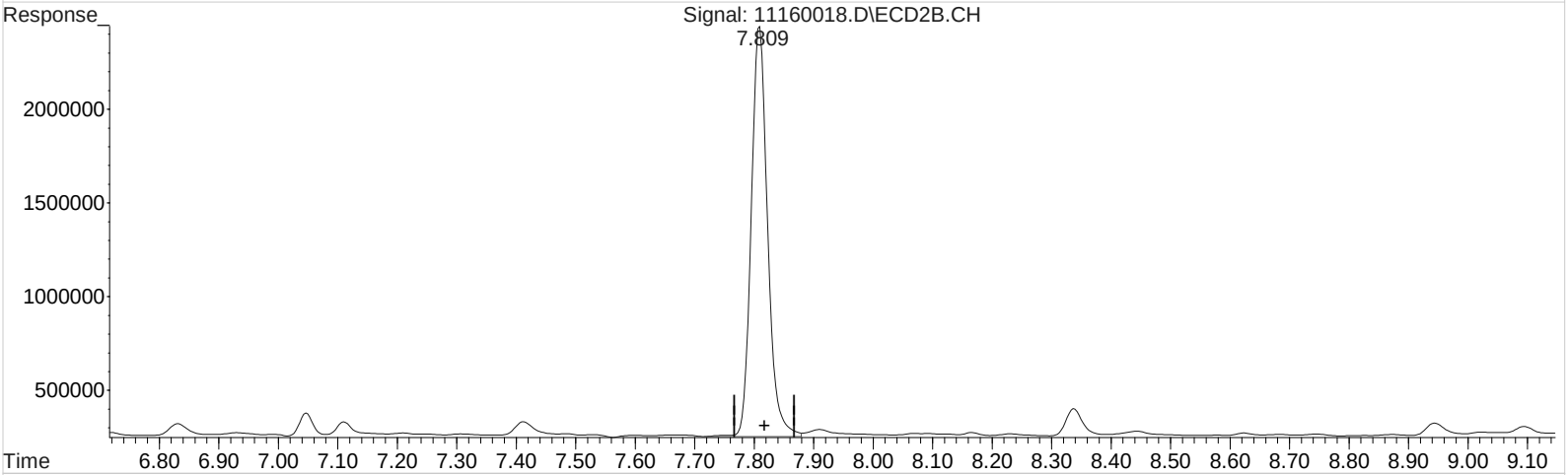
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160018.D Vial: 34
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 11:59 pm Operator: UA
Sample : KQ2017248-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:12 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 17:31:59 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)

7.980min 94.417 ppb

response 1718077

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

7.809min 99.044 ppb

response 4189352

Manual Integration:

Before

11/19/20

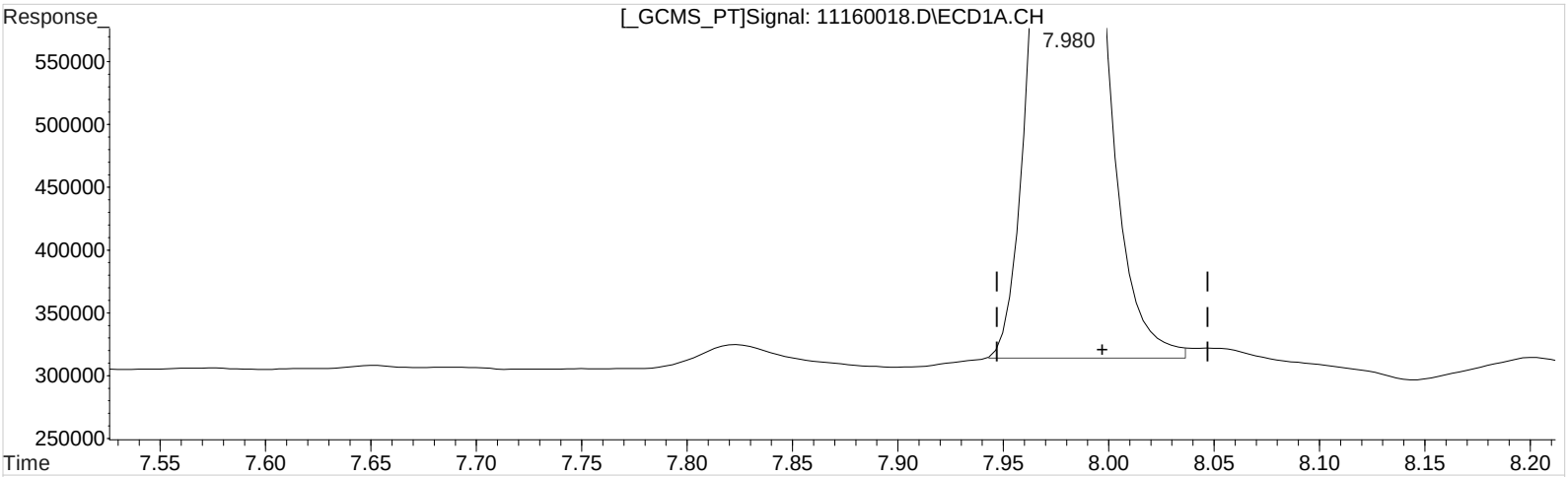
(+) = Expected Retention Time

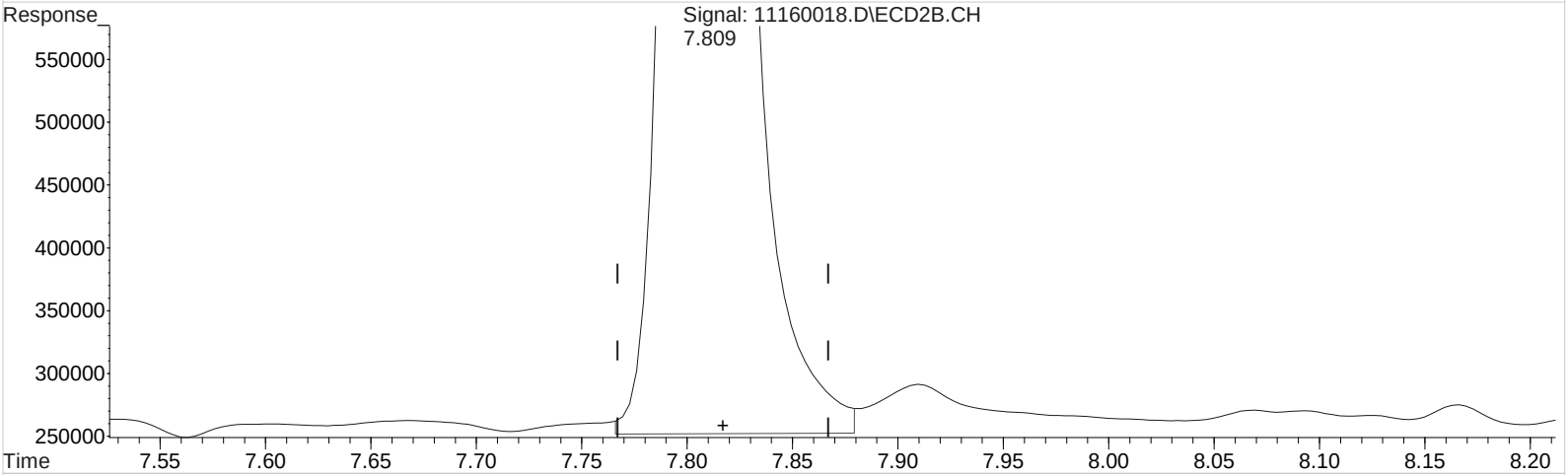
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160018.D Vial: 34
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 11:59 pm Operator: UA
Sample : KQ2017248-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:12 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 17:31:59 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)

7.980min 82.204 ppb m

response 1495828

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.809min 98.967 ppb m

response 4186082

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160019.D\
Lab ID: KQ2017248-03
RunType: LCS
Matrix: Sediment

Date Acquired: 11/16/20 00:21:00
Batch ID: 703644
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 (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
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	26		20	RO

Primary Review: _____

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160019.D\	**Instrument:**	K-GC-24
Acqu Date:	11/16/20 00:21:00	**Vial:**	32
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2017248-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	KQ2017248
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1661980	4235681	91.335	100.139	91	100	100	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	10.25	10.12	8508674	21547585	90.826	106.147	151	177	**151**	Y
2,4-D	9.30	9.05	1898170	5051587	89.367	98.666	149	164	**149**	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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:19:38 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 17:31:59 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...	7.979	7.806	1661980	4235681	91.335	100.139
	Target Compounds						
1) m	Dalapon	3.123	2.876	1625972	3570340	67.027m	73.901m
3) m	Dicamba	8.199	7.909	6440688	14299653	92.274	96.480
4) m	MCPP	8.283	8.099	423452	1739495	9621.114	10603.564
5) m	MCPA	8.549	8.342	538991	2523704	9205.256	11459.593
6) m	Dichloroprop	8.949	8.742	1686193	3930309	90.423	94.218
7) m	2,4-D	9.303	9.049	1898170	5051587	89.367	98.666m
8) m	2,4,5-TP ...	10.246	10.119	8508674	21547585	90.826	106.147m
9) m	2,4,5-T	10.686	10.522	7315128	19917299	88.658	104.079m
10) m	2,4-DB	11.266	11.156	870767	2787814	84.875	96.079
11) m	Dinoseb	11.666	11.306	3616587	8295020	58.458	60.655m

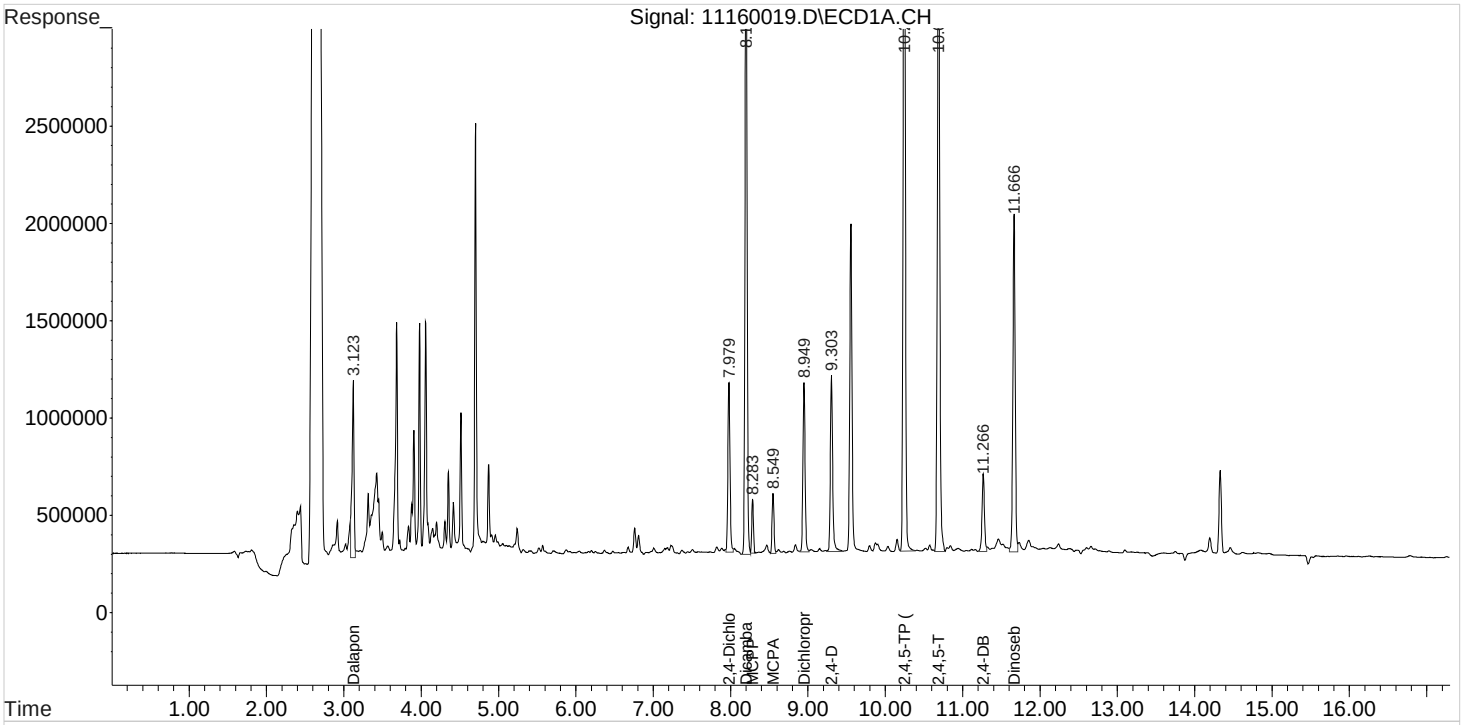
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

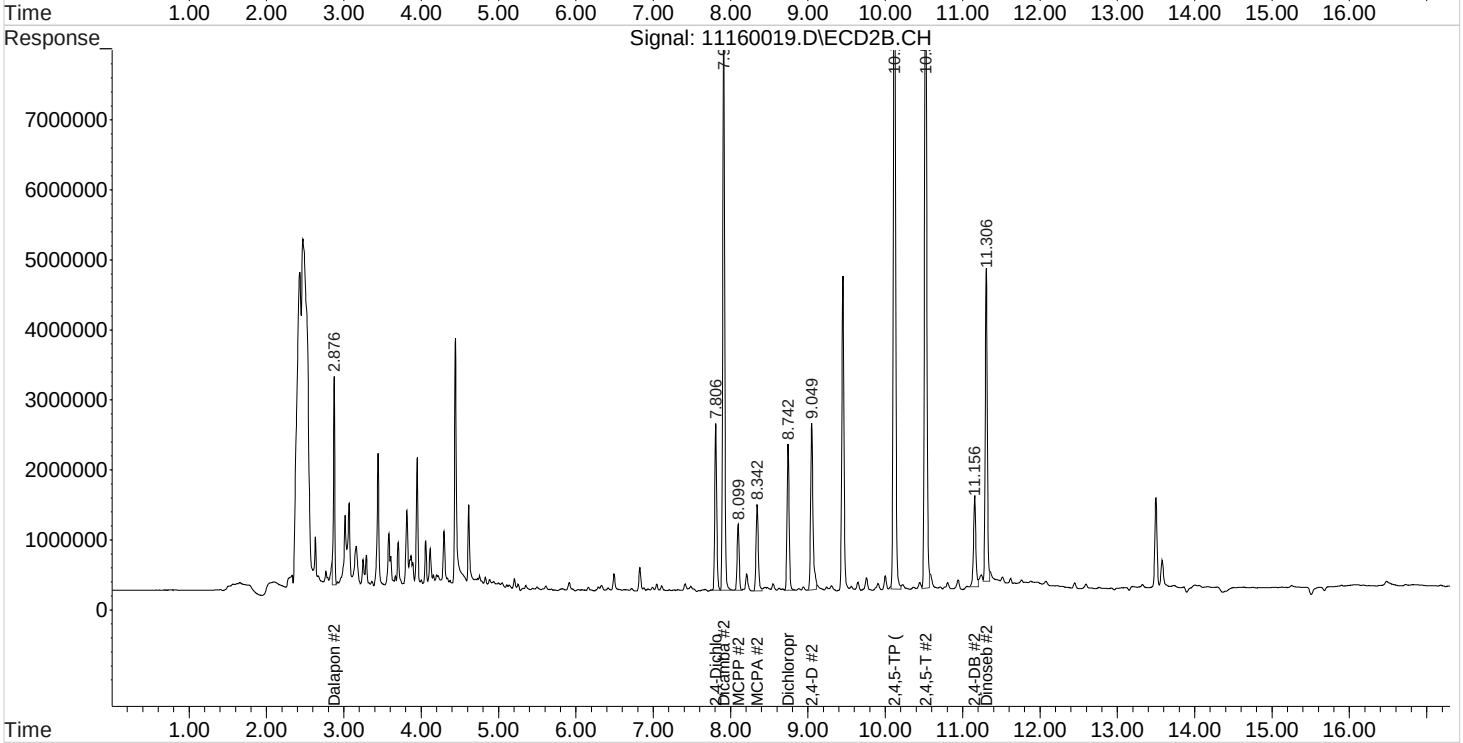
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:19:38 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 17:31:59 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



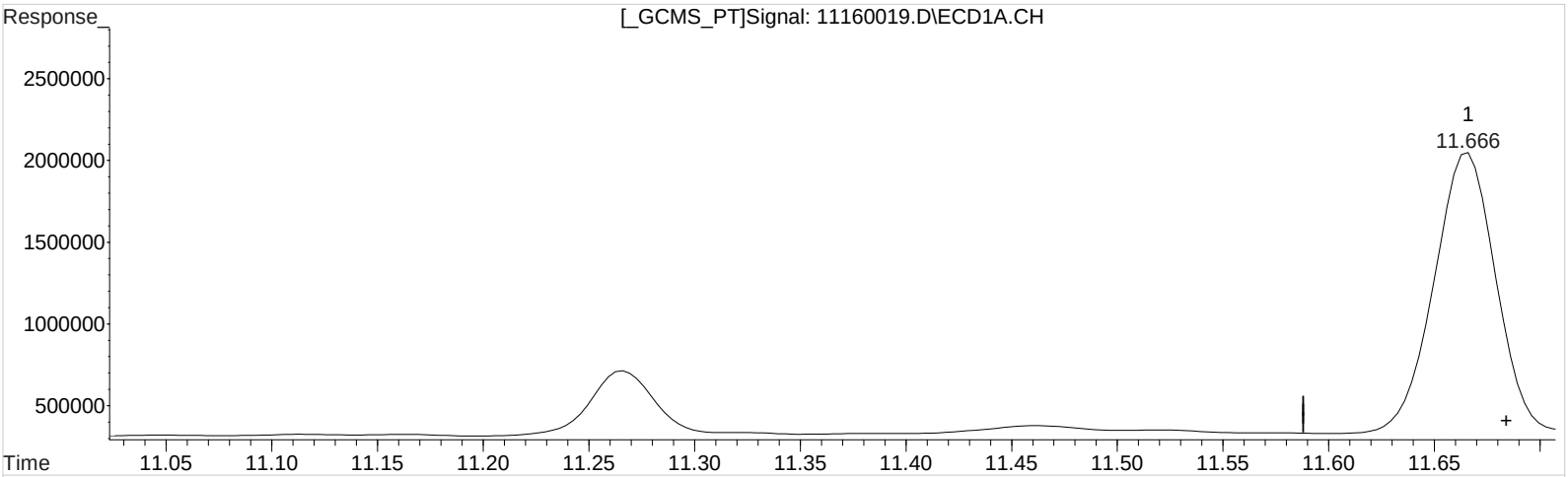


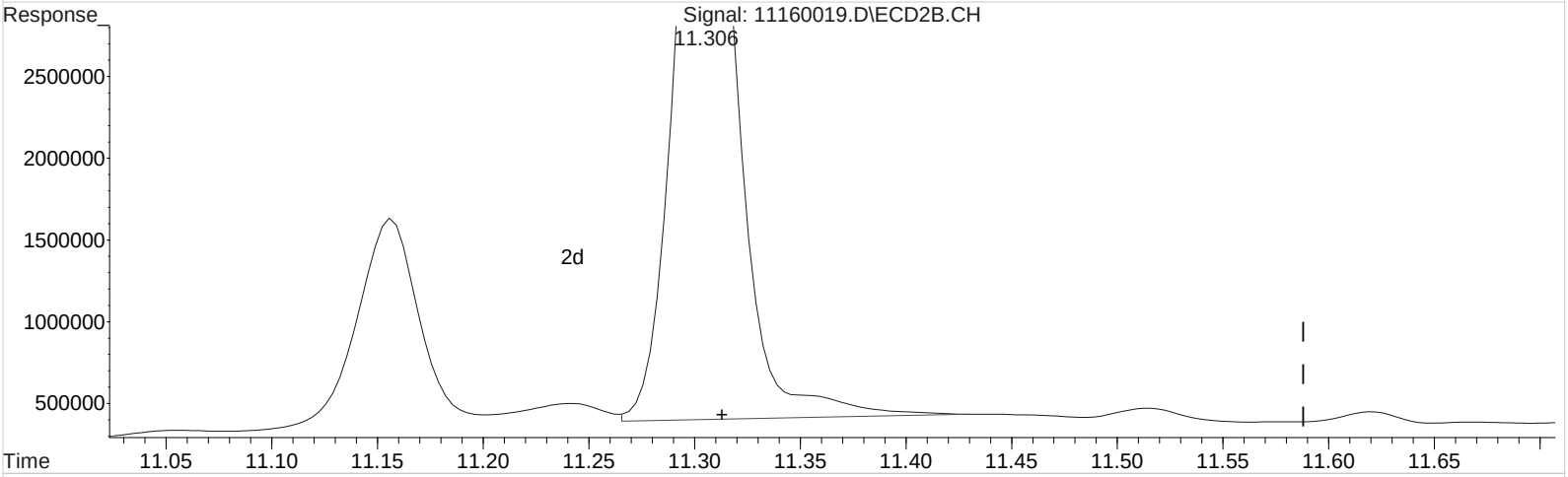
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:58 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





QEdit

(11) Dinoseb (m)

11.666min 58.458 ppb

response 3616587

Manual Integration:

Before

11/19/20

(11) Dinoseb #2 (m)

11.306min 62.733 ppb

response 8579148

(+) = Expected Retention Time

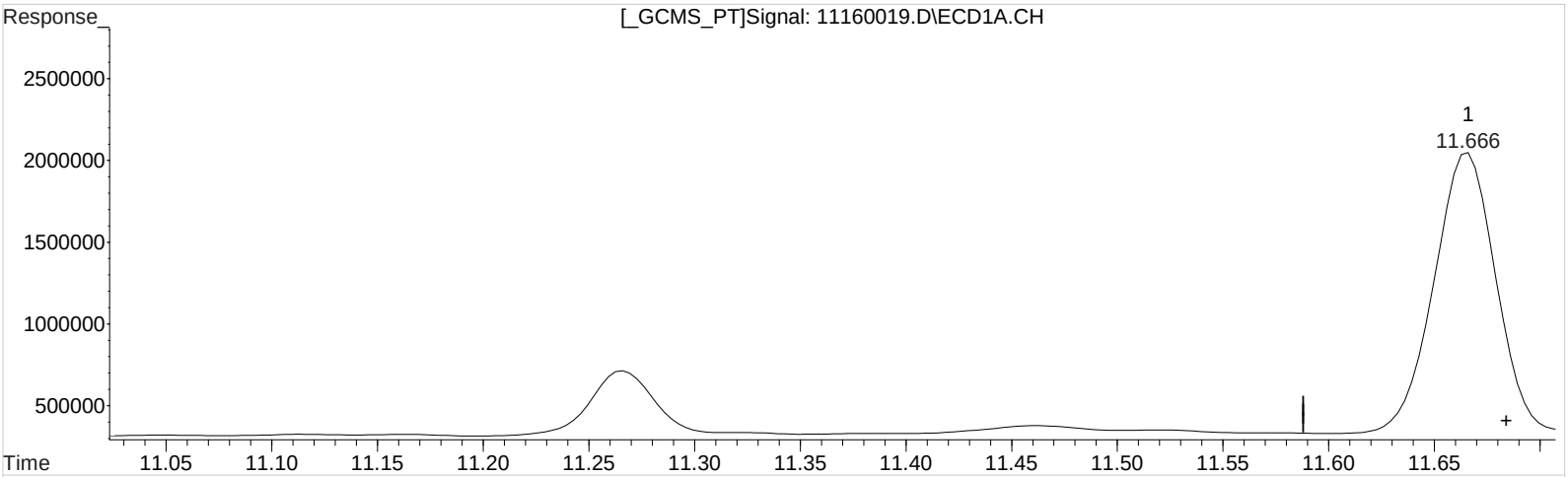
Quantitation Report (Qedit)

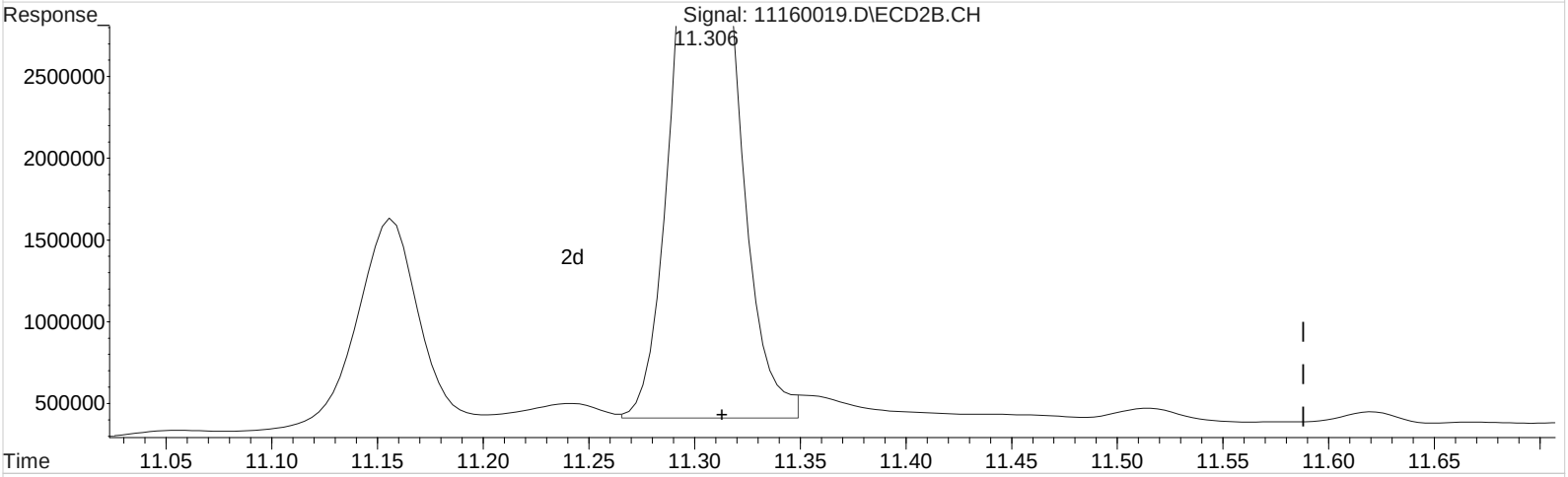
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:58 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





QEdit

(11) Dinoseb (m)

11.666min 58.458 ppb

response 3616587

Manual Integration:

After

Baseline/Shoulder

11/19/20

(11) Dinoseb #2 (m)

11.306min 60.655 ppb m

response 8295020

(+) = Expected Retention Time

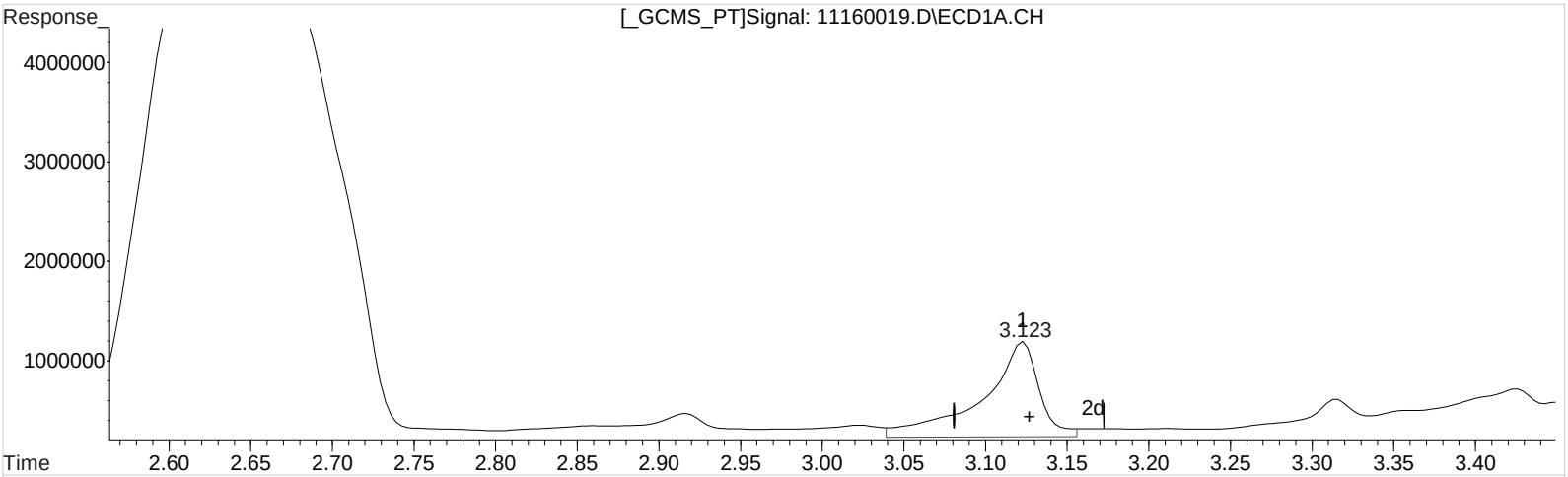
Quantitation Report (Qedit)

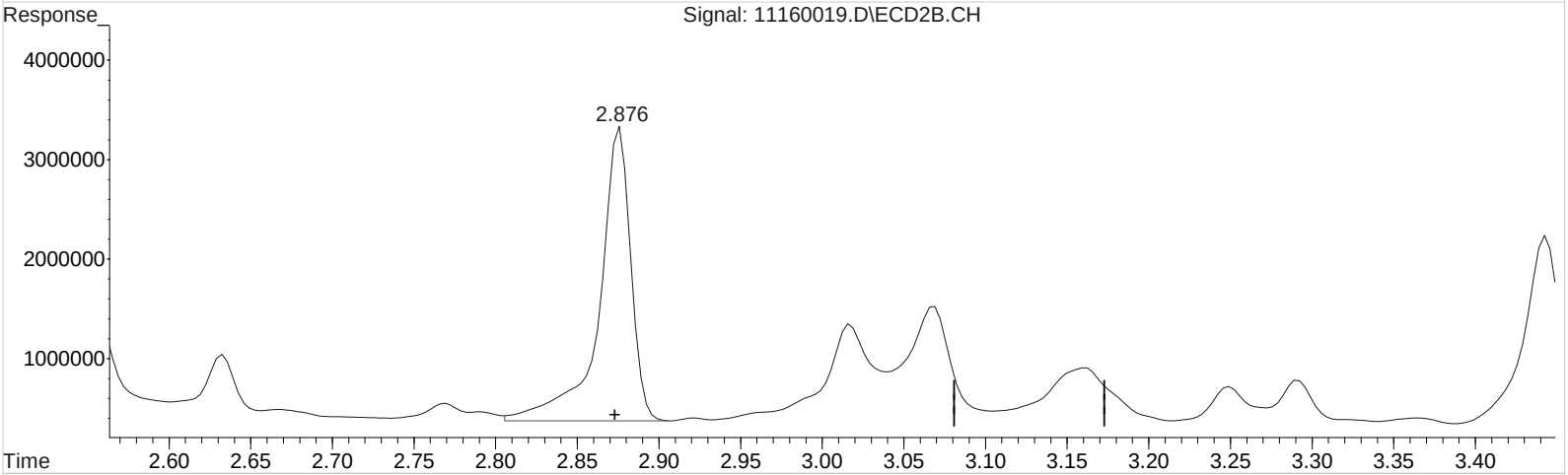
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:58 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





QEdit

(1) Dalapon (m)

3.123min 94.460 ppb

response 2291465

(1) Dalapon #2 (m)

2.876min 82.363 ppb

response 3979186

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

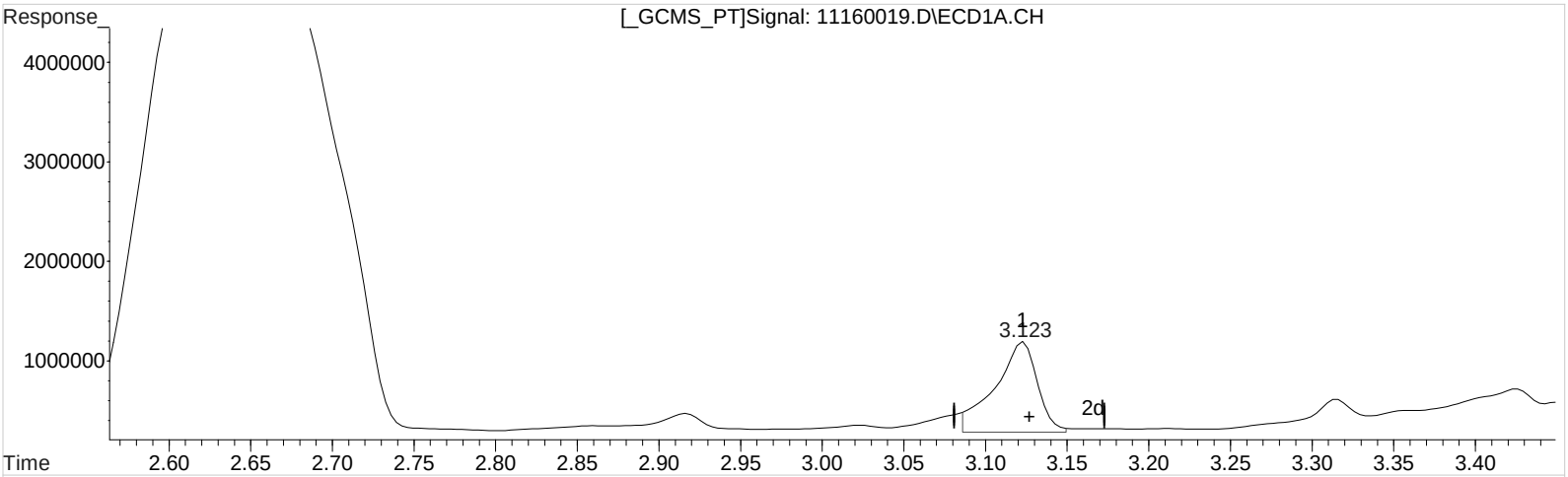
Quantitation Report (Qedit)

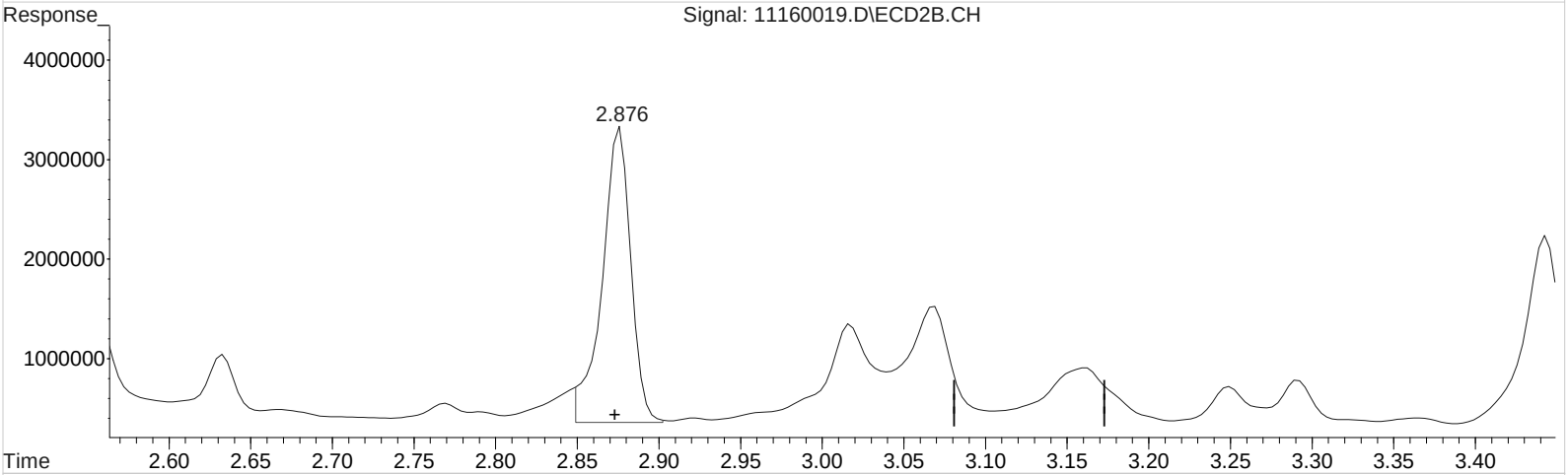
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:58 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





QEdit

(1) Dalapon (m)

3.123min 67.027 ppb m

response 1625972

Manual Integration:

After

Baseline/Shoulder

11/19/20

(1) Dalapon #2 (m)

2.876min 73.901 ppb m

response 3570340

(+) = Expected Retention Time

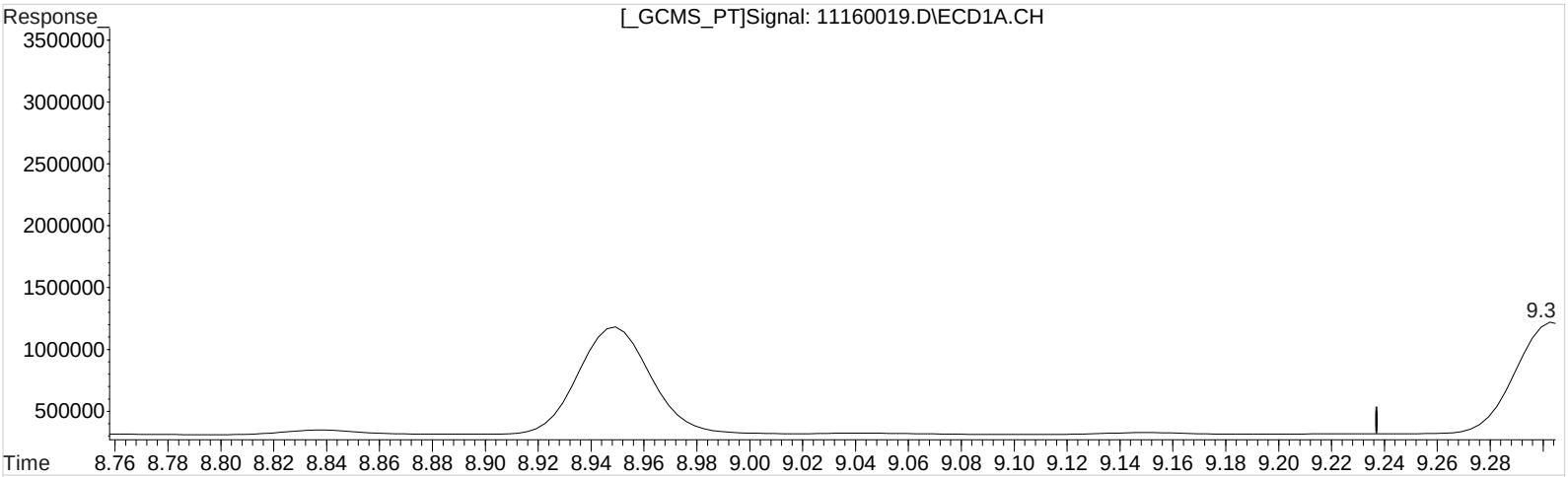
Quantitation Report (Qedit)

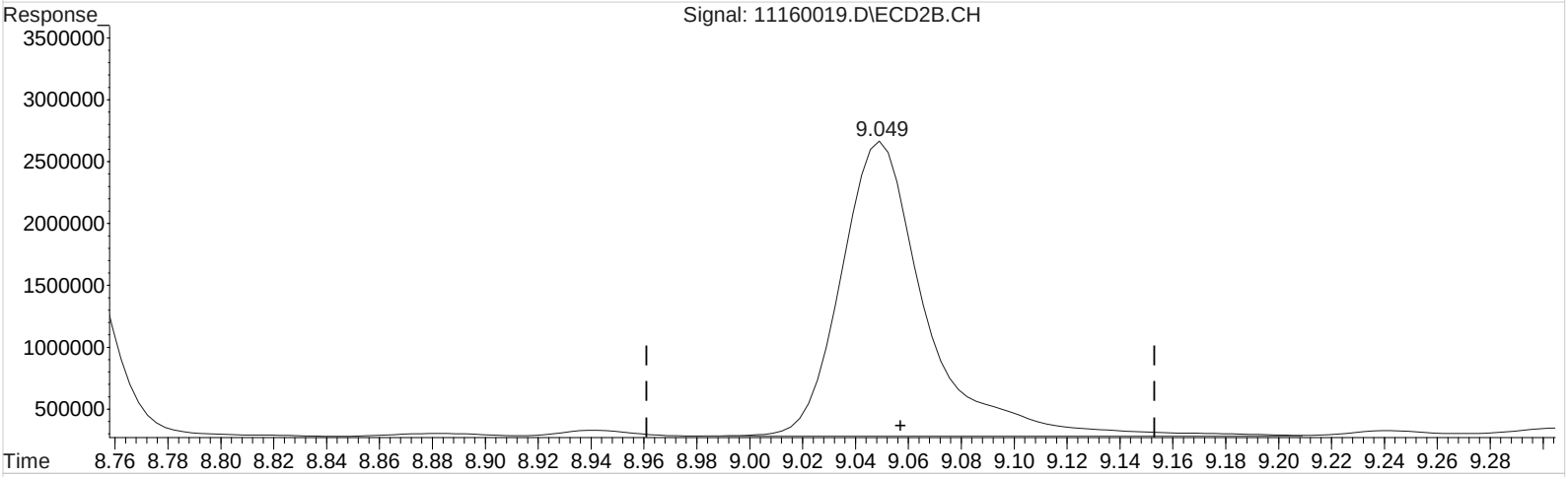
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:58 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





QEdit

(7) 2,4-D (m)

9.303min 89.367 ppb

response 1898170

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

9.049min 103.253 ppb

response 5286429

Manual Integration:

Before

11/19/20

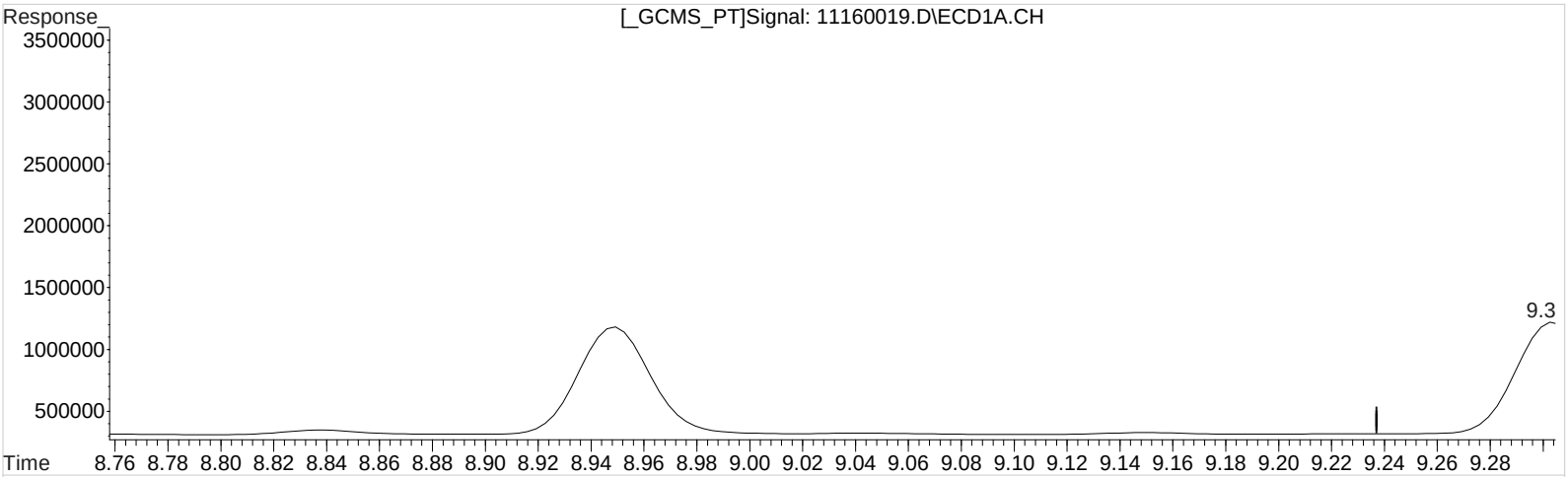
(+) = Expected Retention Time

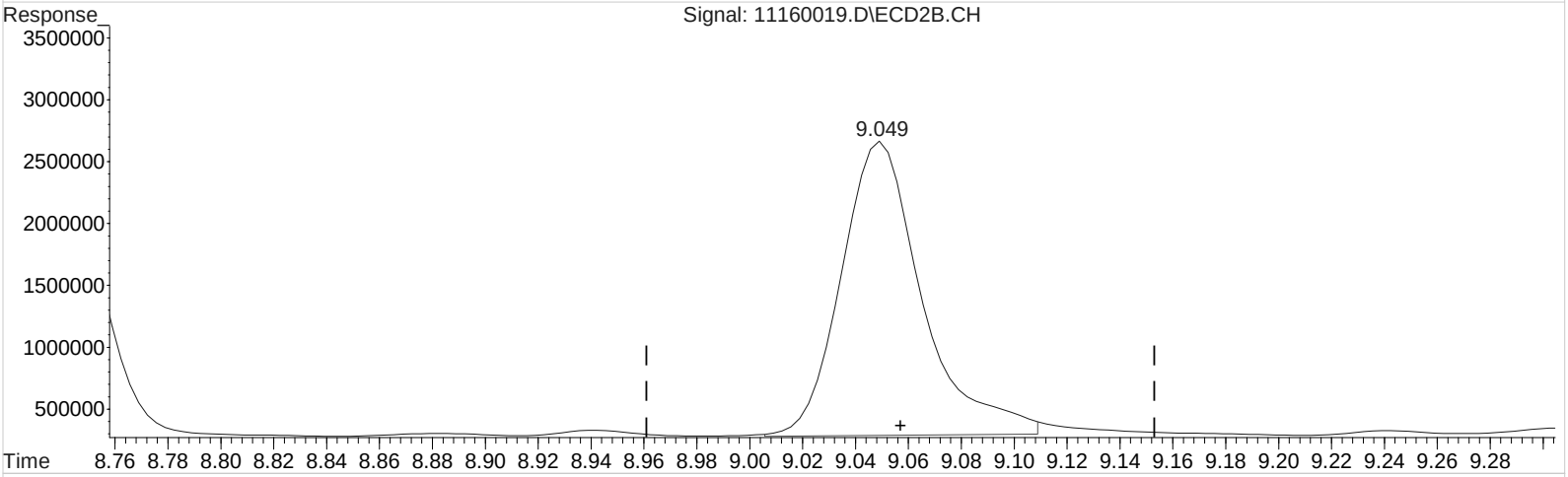
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:58 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





QEdit

(7) 2,4-D (m)

9.303min 89.367 ppb

response 1898170

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

9.049min 98.666 ppb m

response 5051587

(+) = Expected Retention Time

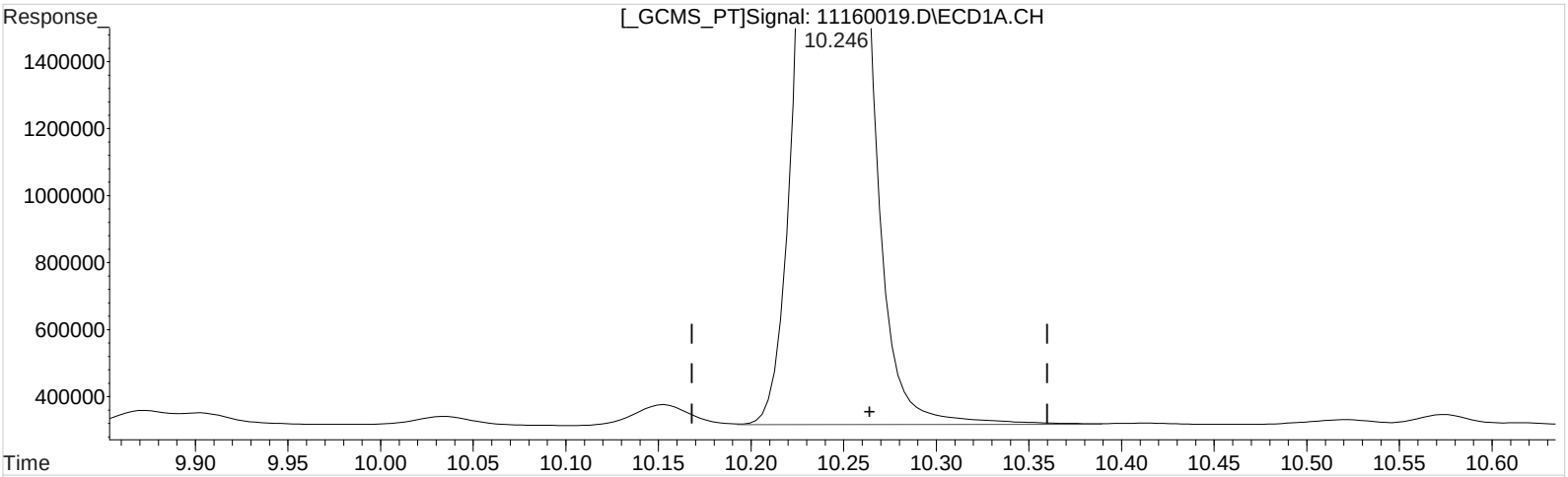
Quantitation Report (Qedit)

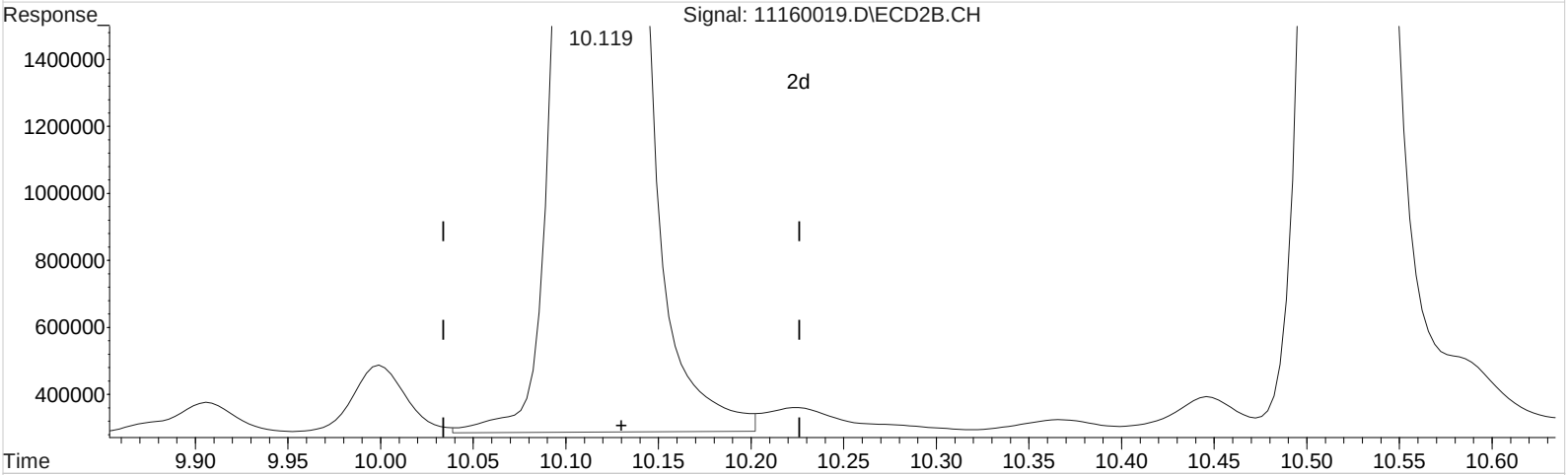
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:58 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





QEdit

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

10.246min 90.826 ppb

response 8508674

Manual Integration:

Before

11/19/20

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

10.119min 106.889 ppb

response 21698271

(+) = Expected Retention Time

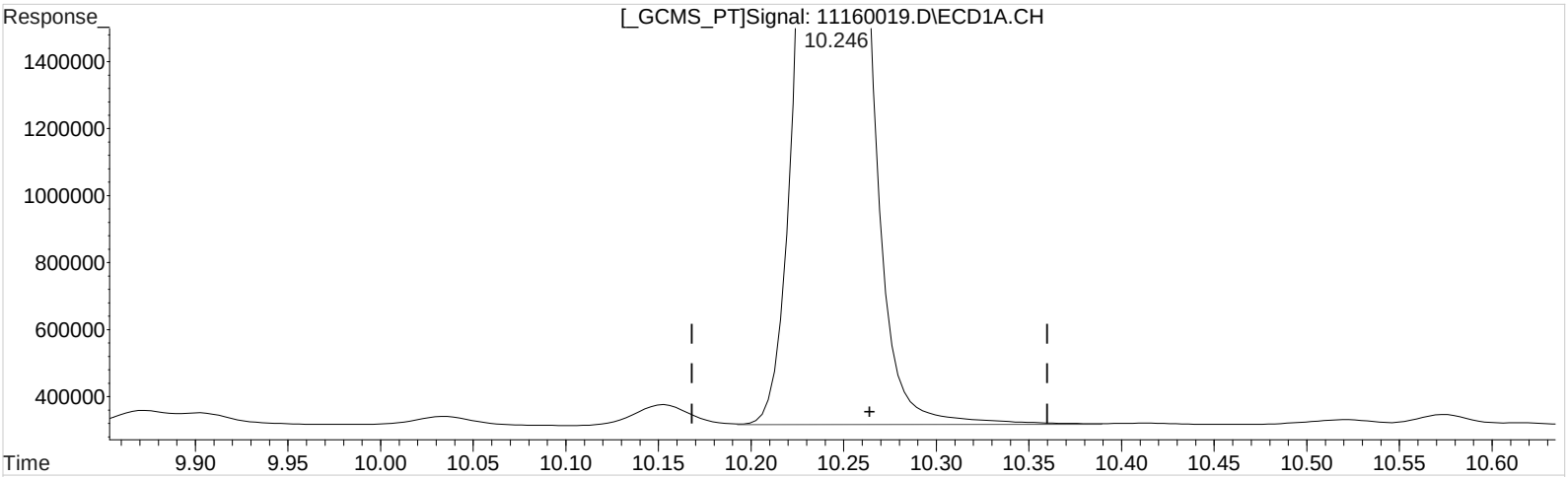
Quantitation Report (Qedit)

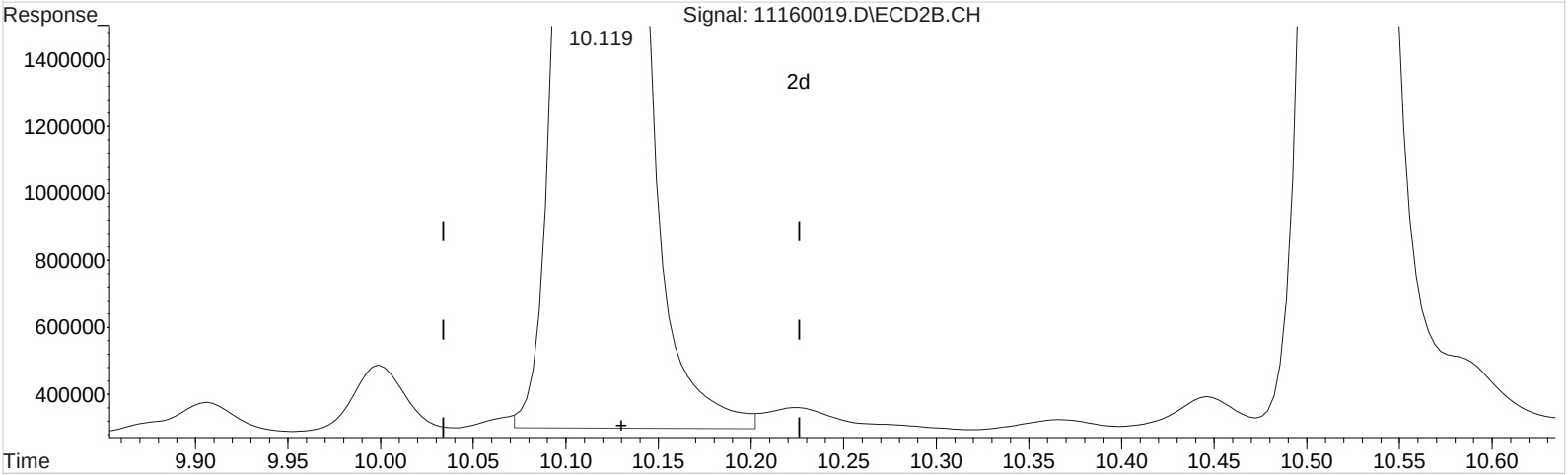
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:58 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





QEdit

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

10.246min 90.826 ppb

response 8508674

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

10.119min 106.147 ppb m

response 21547585

(+) = Expected Retention Time

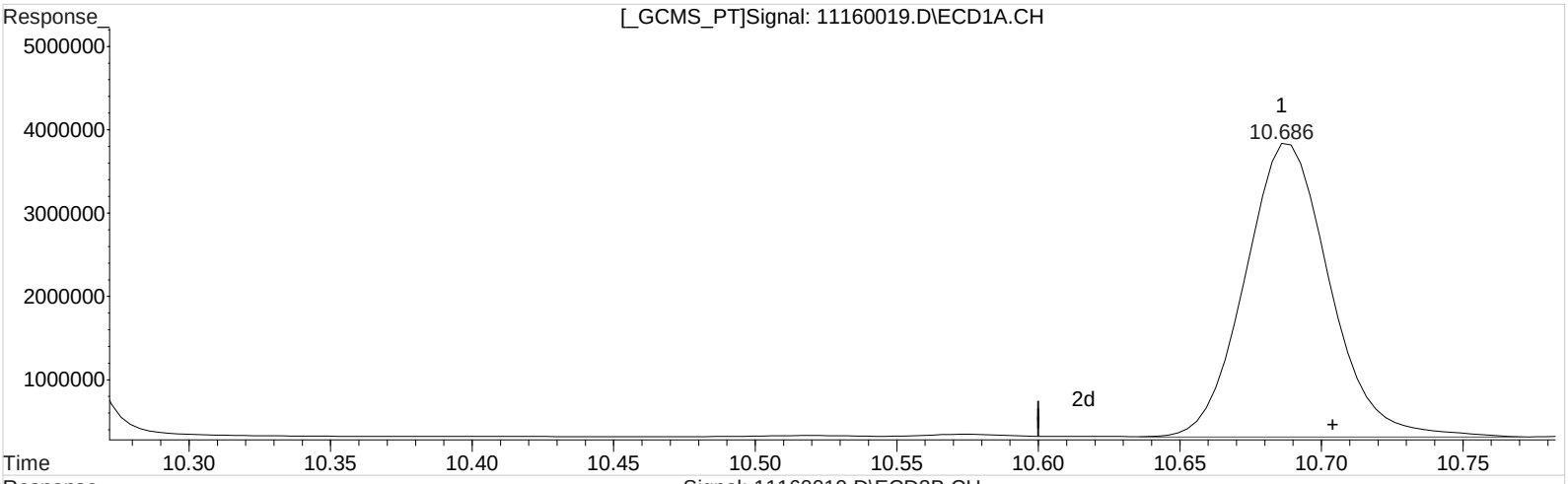
Quantitation Report (Qedit)

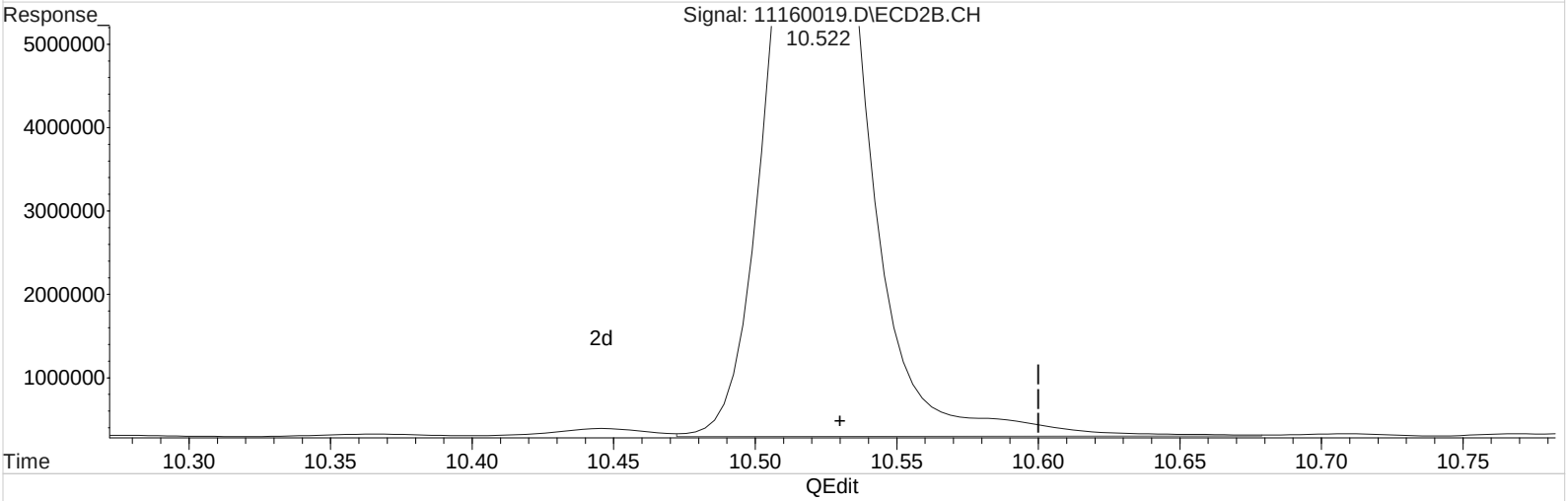
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:58 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





QEdit

(9) 2,4,5-T (m)

10.686min 88.658 ppb

response 7315128

Manual Integration:

Before

11/19/20

(9) 2,4,5-T #2 (m)

10.522min 107.221 ppb

response 20518537

(+) = Expected Retention Time

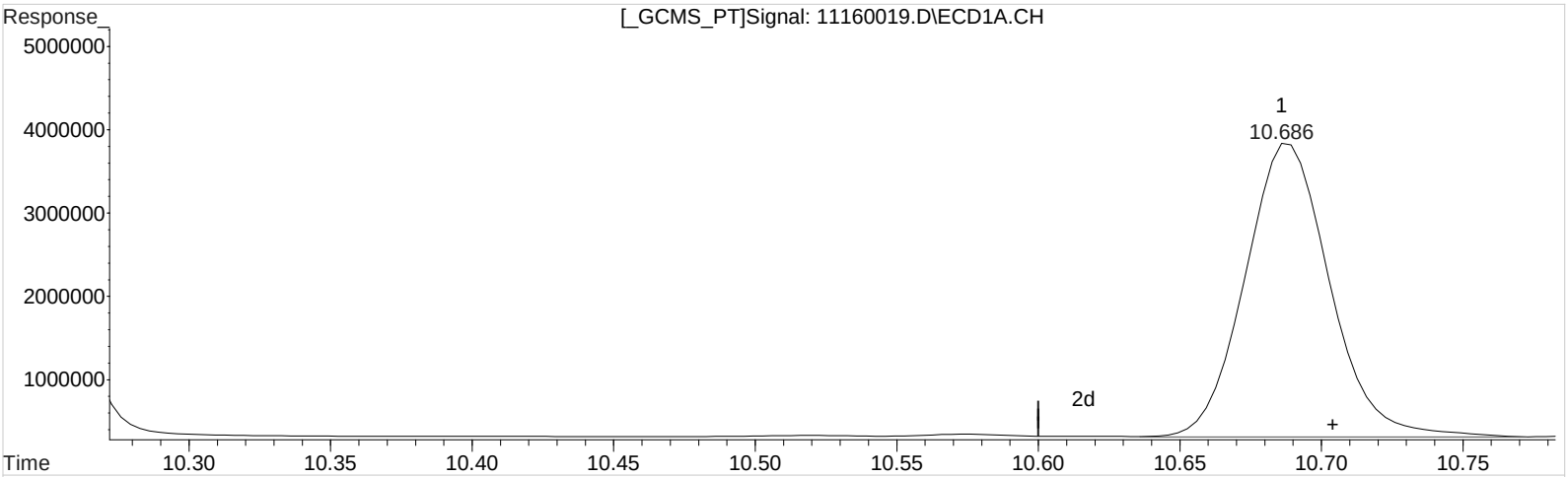
Quantitation Report (Qedit)

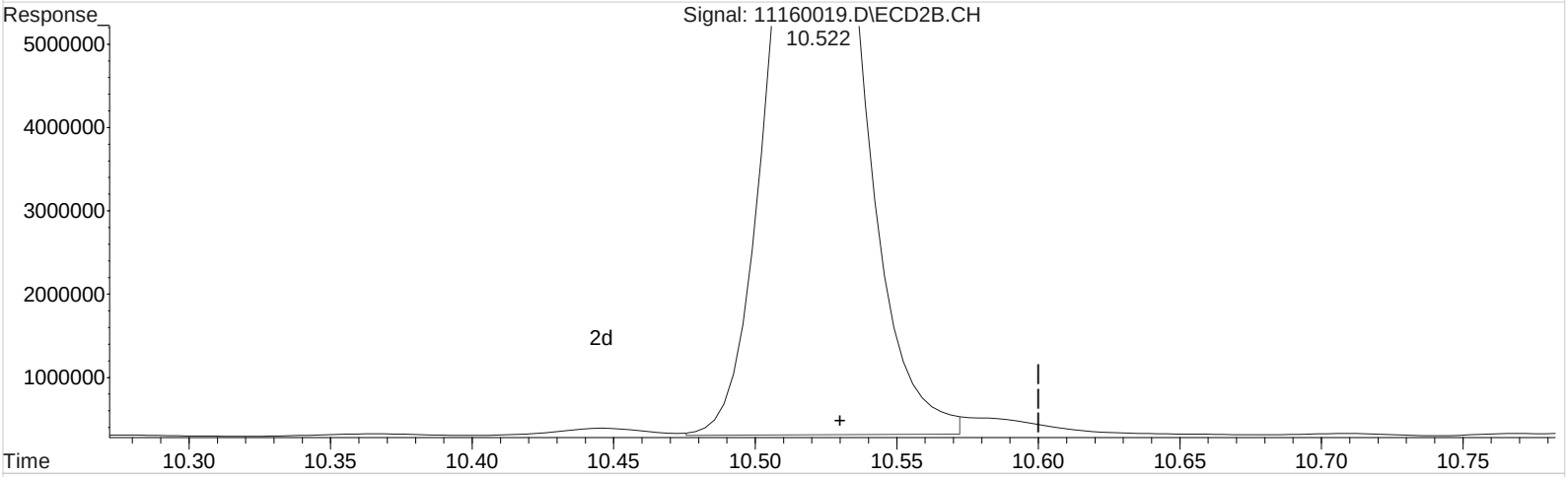
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160019.D Vial: 35
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 12:21 am Operator: UA
Sample : KQ2017248-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 14:16:58 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





QEdit

(9) 2,4,5-T (m)

10.686min 88.658 ppb

response 7315128

Manual Integration:

After

Baseline/Shoulder

11/19/20

(9) 2,4,5-T #2 (m)

10.522min 104.079 ppb m

response 19917299

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160043.D\
Lab ID: KQ2017248-01
RunType: MS
Matrix: Sediment

Date Acquired: 11/17/20 09:30:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	30		20	RO
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160043.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 09:30:00	**Vial:**	30
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ2017248-01	**Raw Units:**	ppb

Bottle ID:	K2010070-005.02	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	KQ2017248
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1695434	4545455	93.173	107.463	93	107	93	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	10.25	10.12	8374831	21554797	89.397	106.182[CCV]	149	177	**149**	Y
2,4-D	9.31	9.05	1792727	5000349	84.403	97.666[CCV]	140	163	**140**	Y

Prep Amount:	30.039 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160043.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:30 am Operator: UA
Sample : KQ2017248-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:14:16 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...	7.985	7.814	1695434	4545455	93.173	107.463
	Target Compounds						
1) m	Dalapon	3.121	2.874	1671065	3747705	68.886m	77.572m
3) m	Dicamba	8.205	7.914	6246211	14278011	89.487	96.334
4) m	MCPP	8.291	8.101	421394	1791698	9576.827	10964.359
5) m	MCPA	8.555	8.348	536070	2499028	9155.369	11329.174
6) m	Dichloroprop	8.955	8.748	1601823	4019766	85.899	96.362
7) m	2,4-D	9.308	9.054	1792727	5000349	84.403m	97.666m
8) m	2,4,5-TP ...	10.248	10.124	8374831	21554797	89.397	106.182
9) m	2,4,5-T	10.691	10.528	7049820	19718755	85.442	103.042
10) m	2,4-DB	11.271	11.158	874588	2698377	85.247m	92.997m
11) m	Dinoseb	11.668	11.311	3878521	9319903	62.692	68.149m

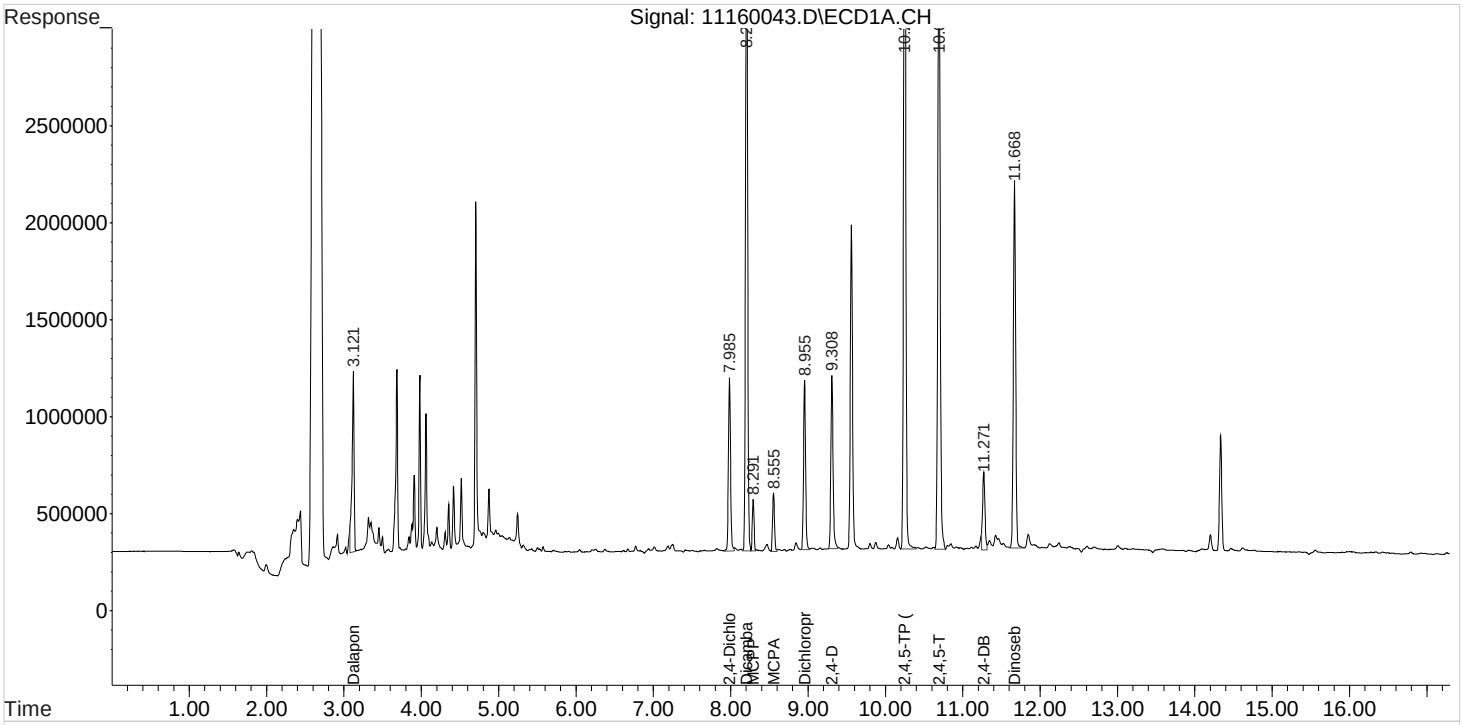
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

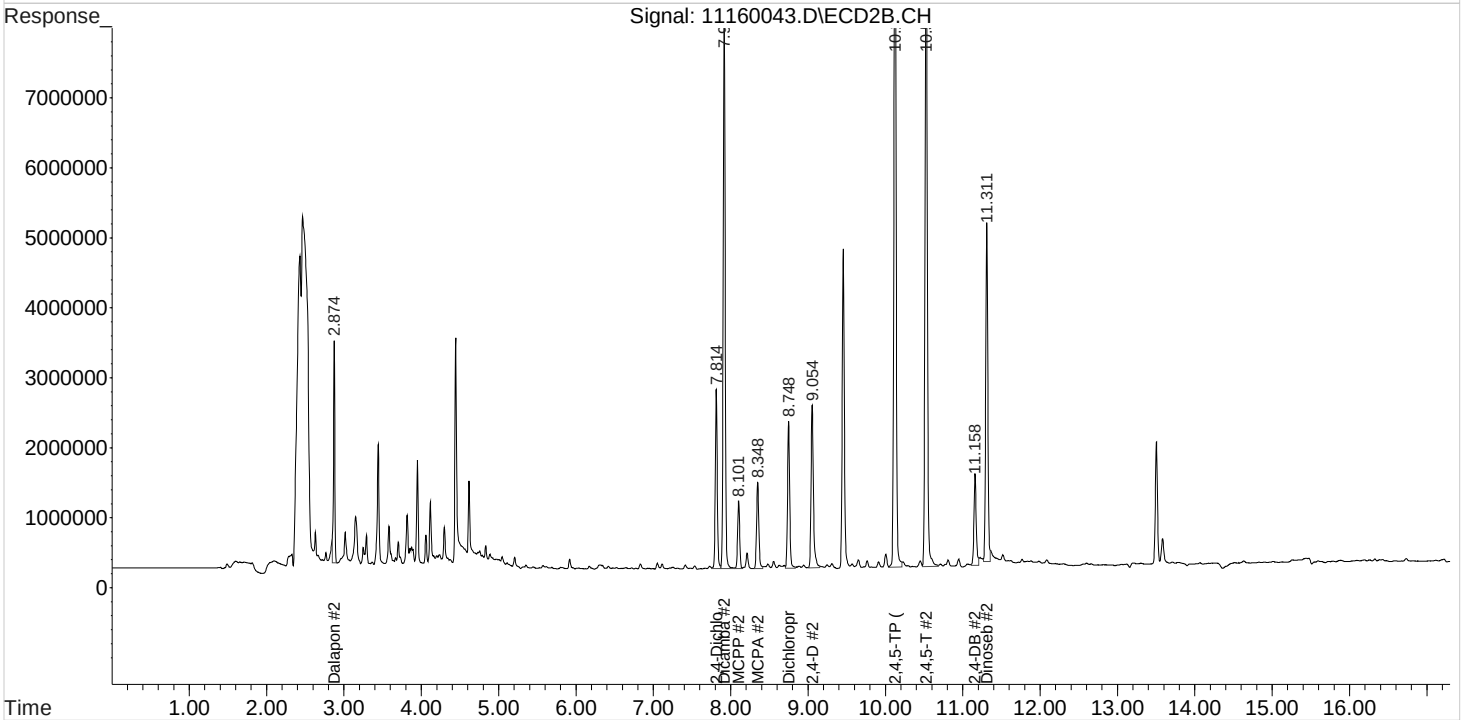
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160043.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:30 am Operator: UA
Sample : KQ2017248-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:14:16 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





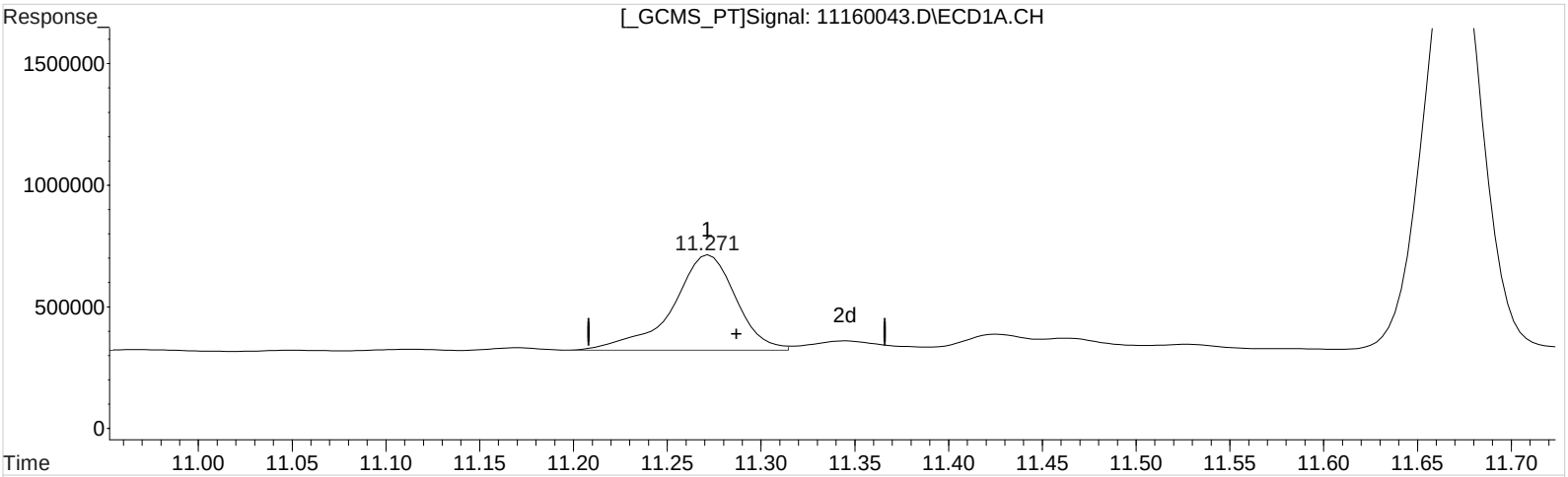
Quantitation Report (Qedit)

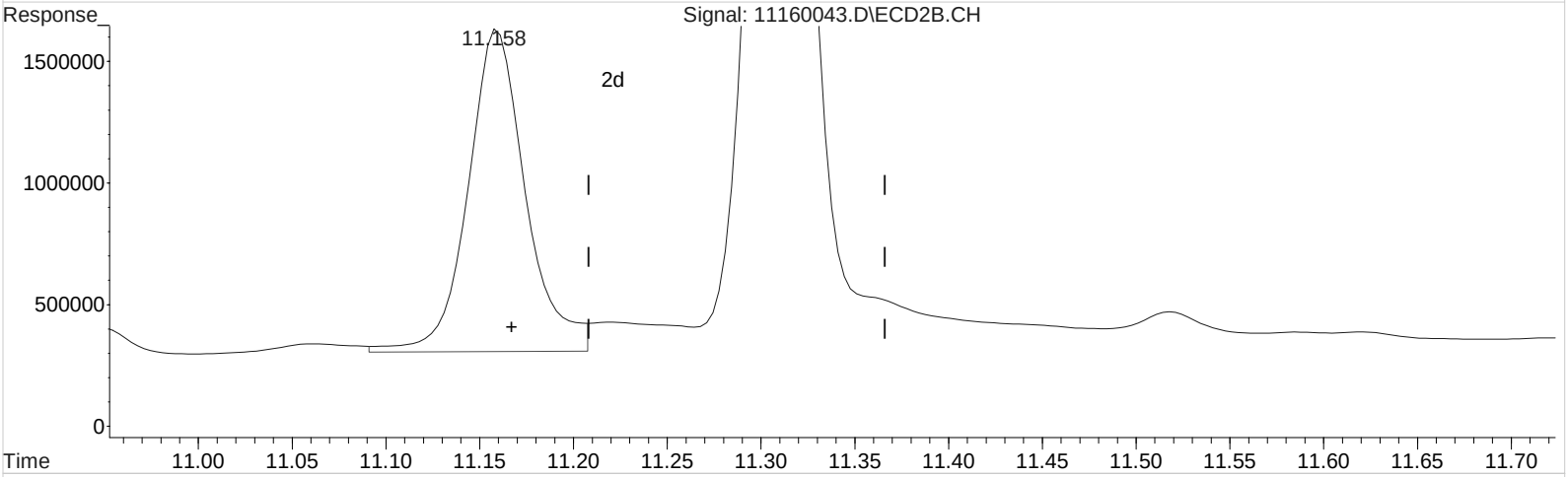
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160043.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:30 am Operator: UA
Sample : KQ2017248-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:12:05 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 17:31:59 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

(10) 2,4-DB (m)

11.271min 89.951 ppb

response 922843

Manual Integration:

Before

11/19/20

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

11.158min 97.689 ppb

response 2834534

(+) = Expected Retention Time

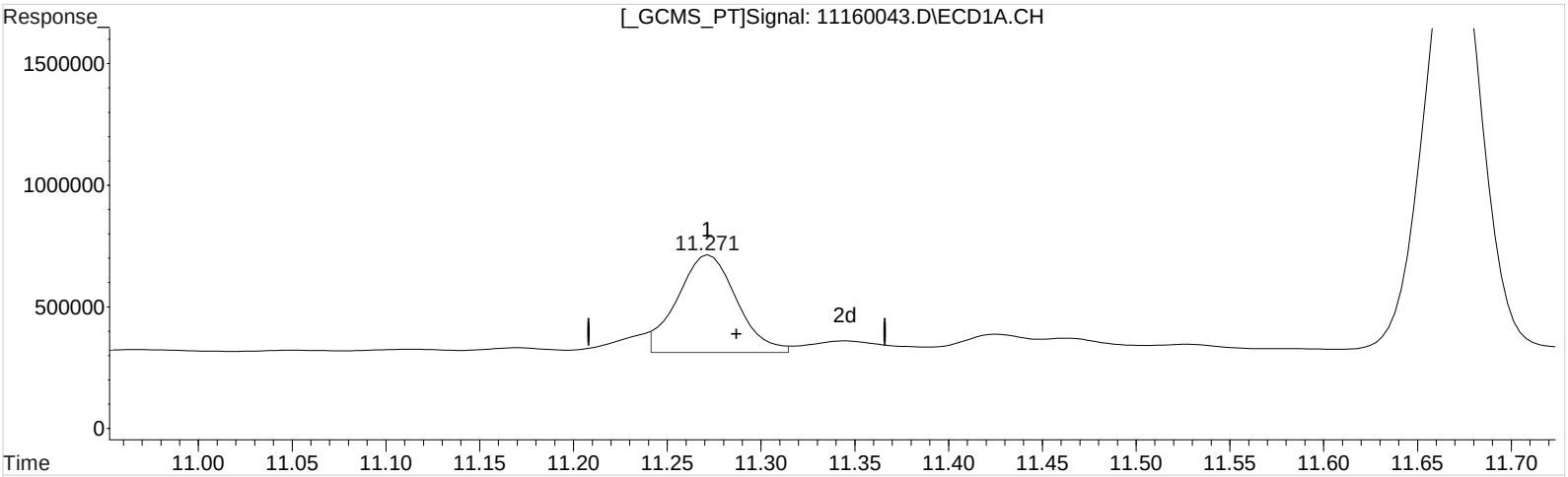
Quantitation Report (Qedit)

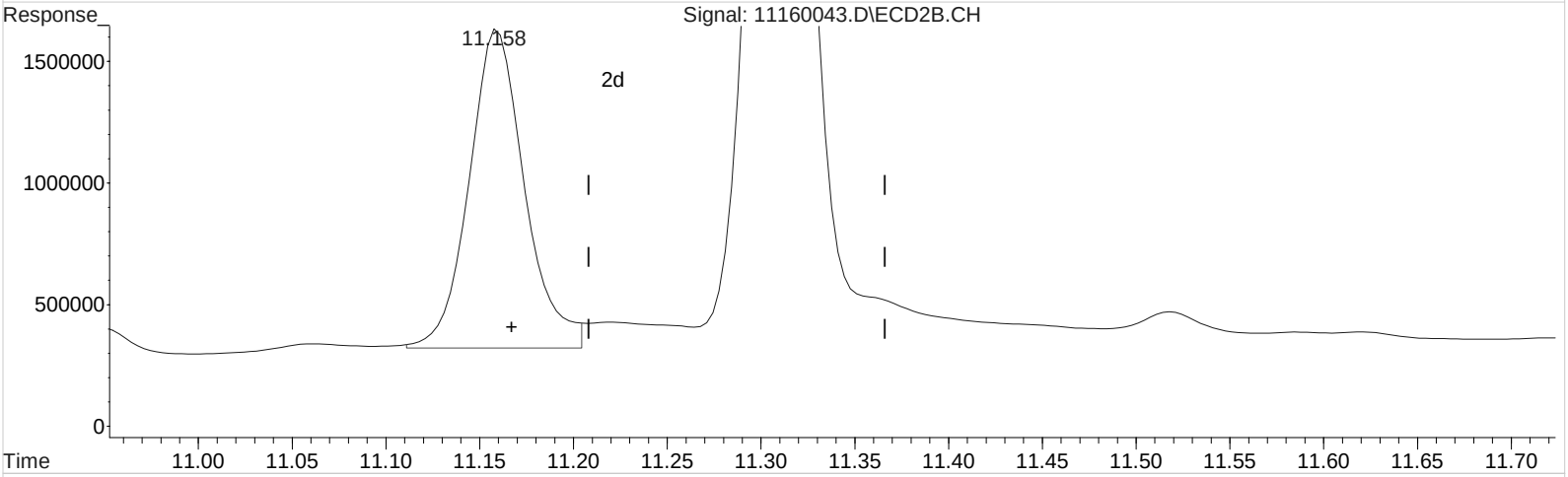
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160043.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:30 am Operator: UA
Sample : KQ2017248-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:12:05 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 17:31:59 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

(10) 2,4-DB (m)

11.271min 85.247 ppb m

response 874588

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

11.158min 92.997 ppb m

response 2698377

Manual Integration:

After

Baseline/Shoulder

11/19/20

(+) = Expected Retention Time

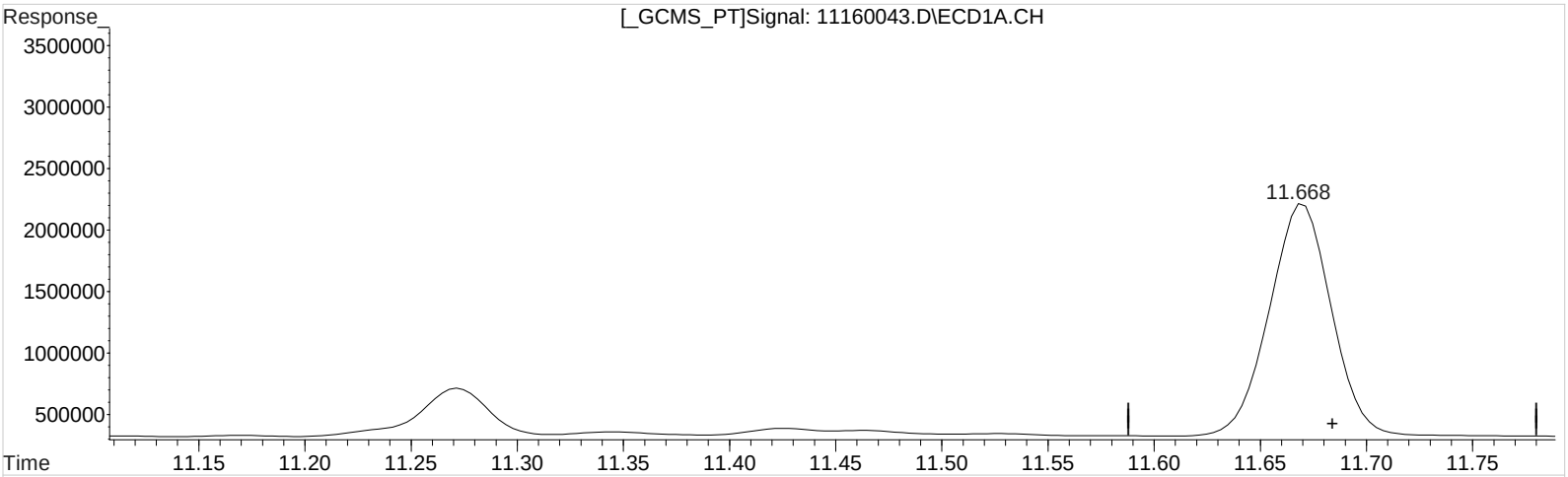
Quantitation Report (Qedit)

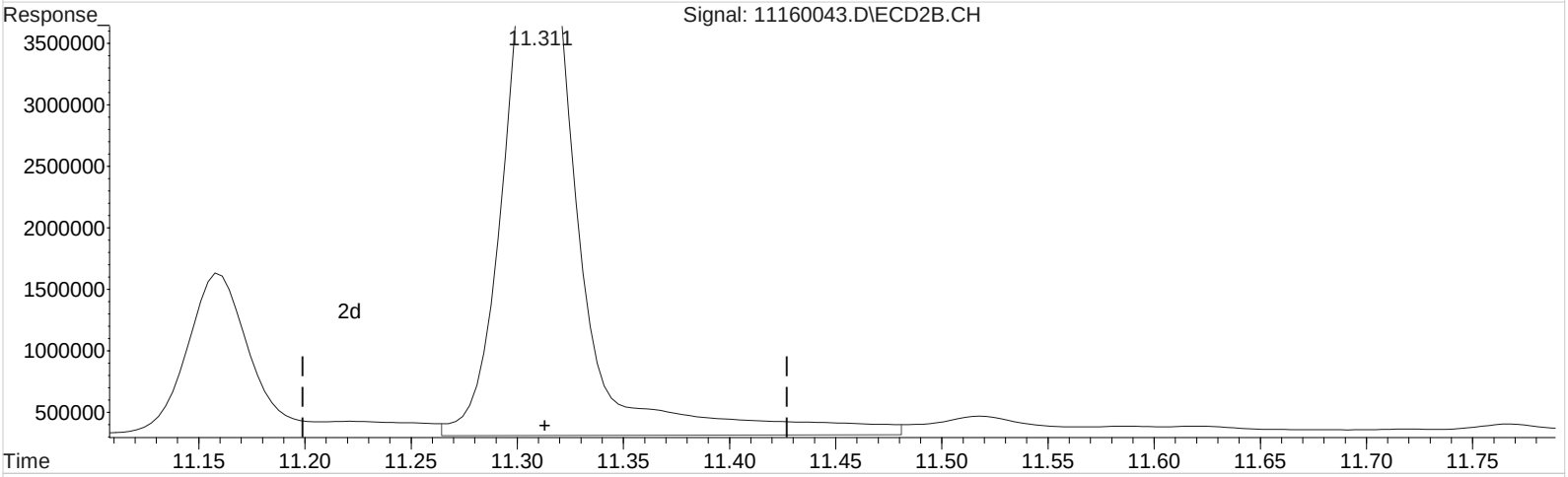
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160043.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:30 am Operator: UA
Sample : KQ2017248-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:12:05 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 17:31:59 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

(11) Dinoseb (m)

11.668min 62.692 ppb

response 3878521

Manual Integration:

Before

11/19/20

(11) Dinoseb #2 (m)

11.311min 77.659 ppb

response 10620451

(+) = Expected Retention Time

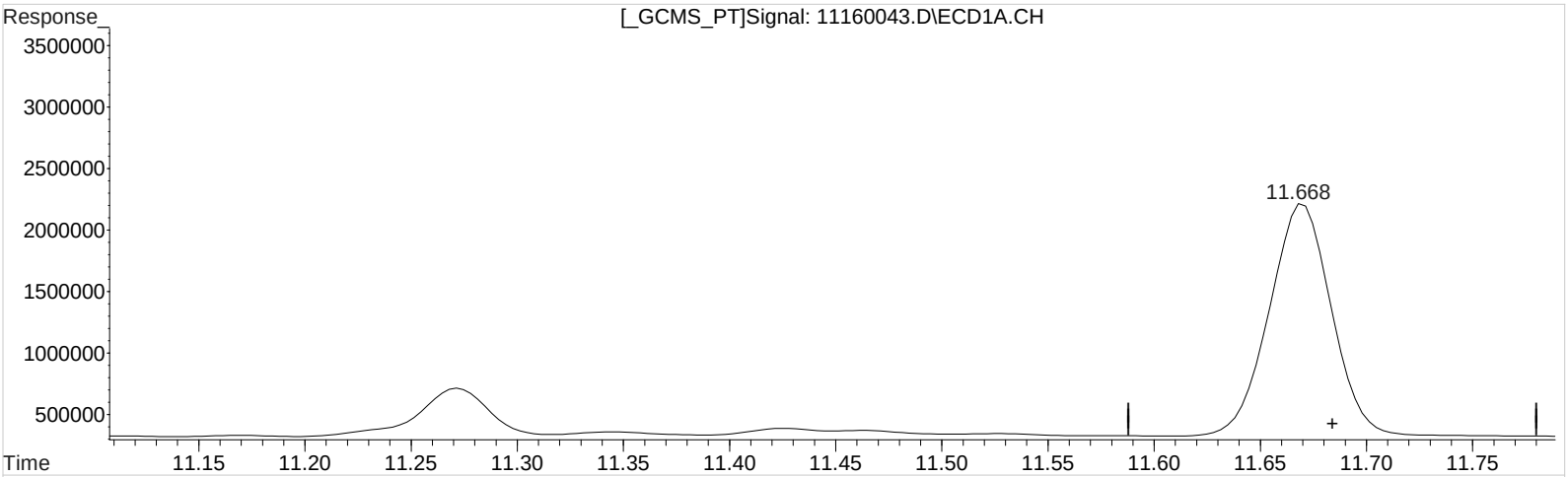
Quantitation Report (Qedit)

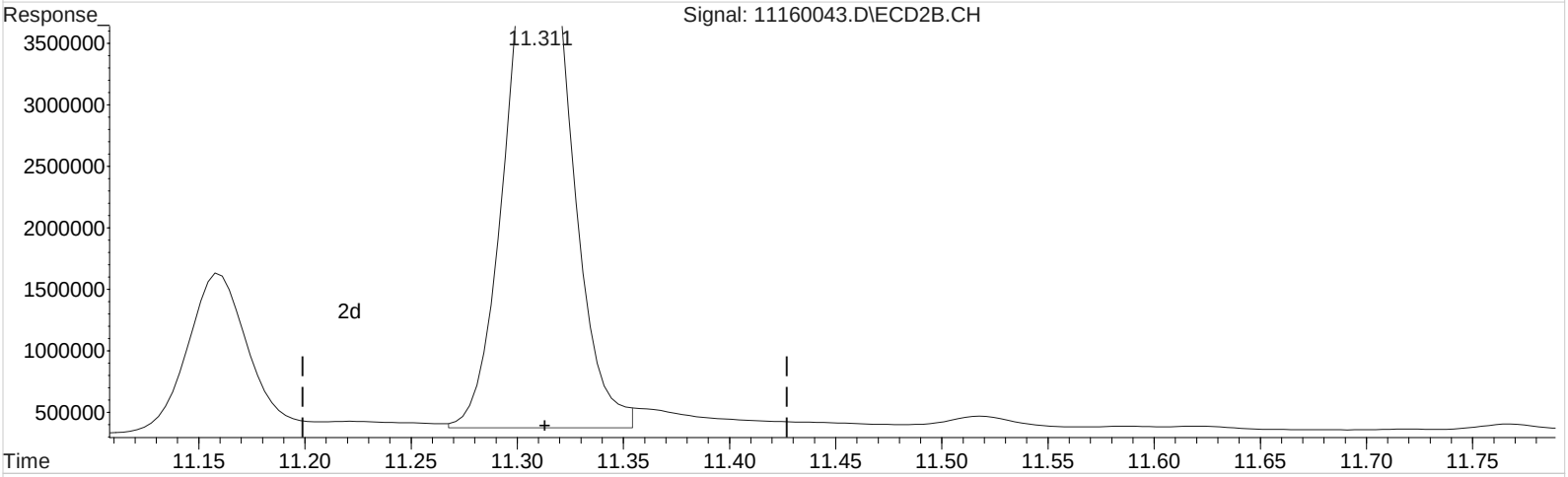
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160043.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:30 am Operator: UA
Sample : KQ2017248-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:12:05 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 17:31:59 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

(11) Dinoseb (m)

11.668min 62.692 ppb

response 3878521

Manual Integration:

After

Baseline/Shoulder

11/19/20

(11) Dinoseb #2 (m)

11.311min 68.149 ppb m

response 9319903

(+) = Expected Retention Time

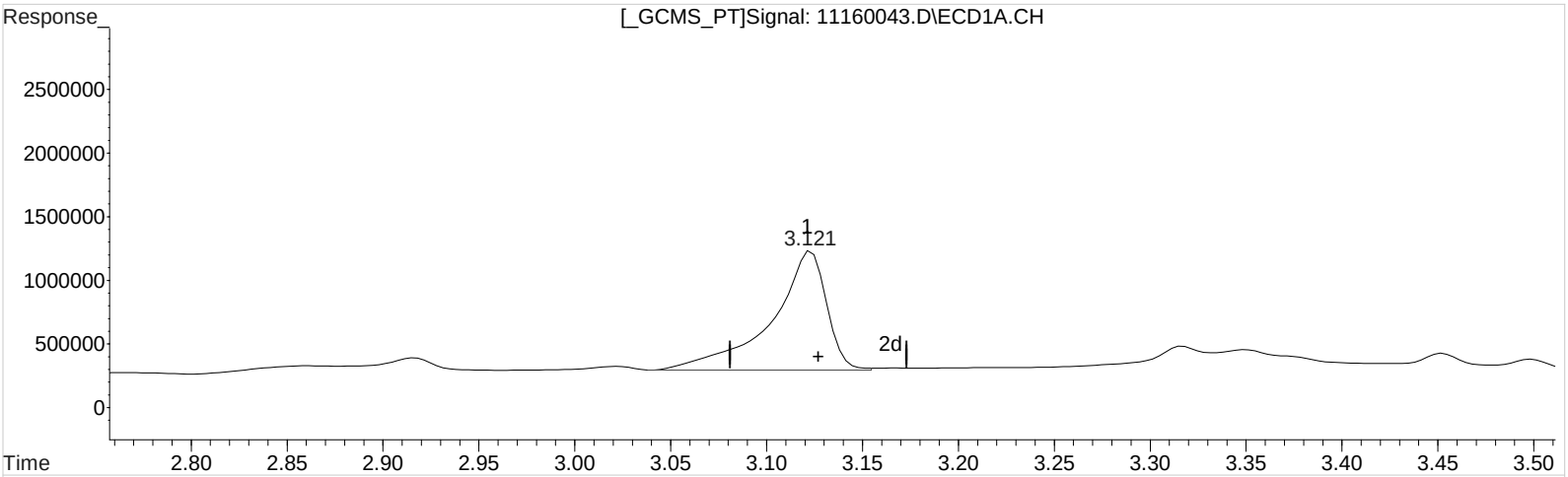
Quantitation Report (Qedit)

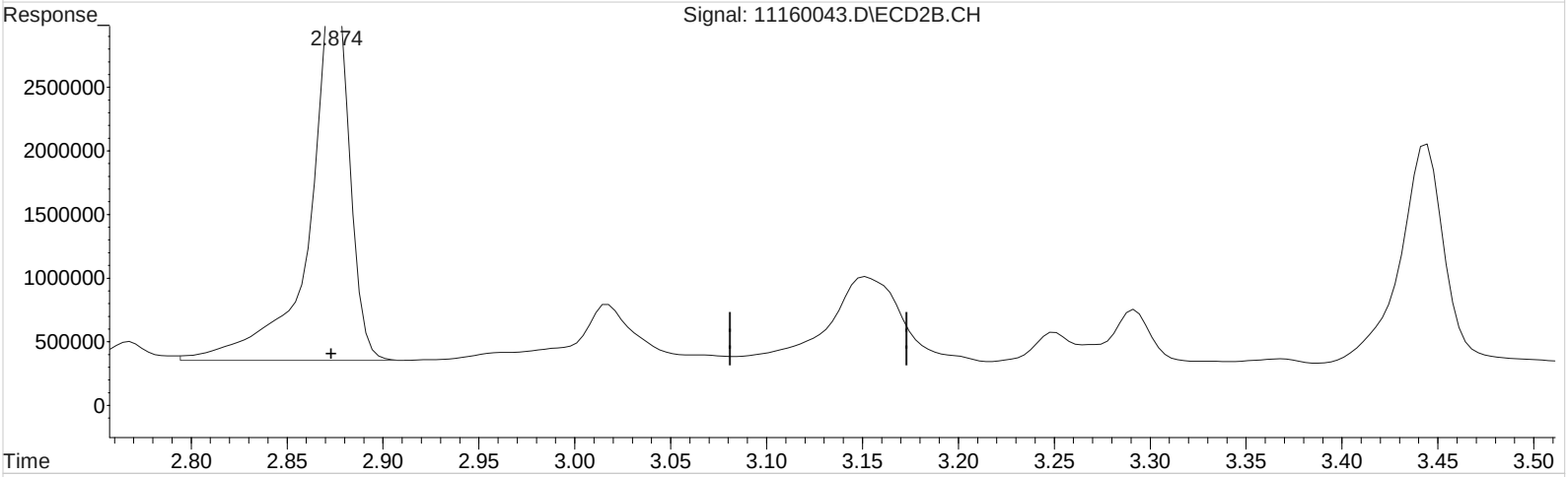
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160043.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:30 am Operator: UA
Sample : KQ2017248-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:12:05 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 17:31:59 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)

3.121min 76.834 ppb

response 1863876

(1) Dalapon #2 (m)

2.874min 88.237 ppb

response 4262979

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

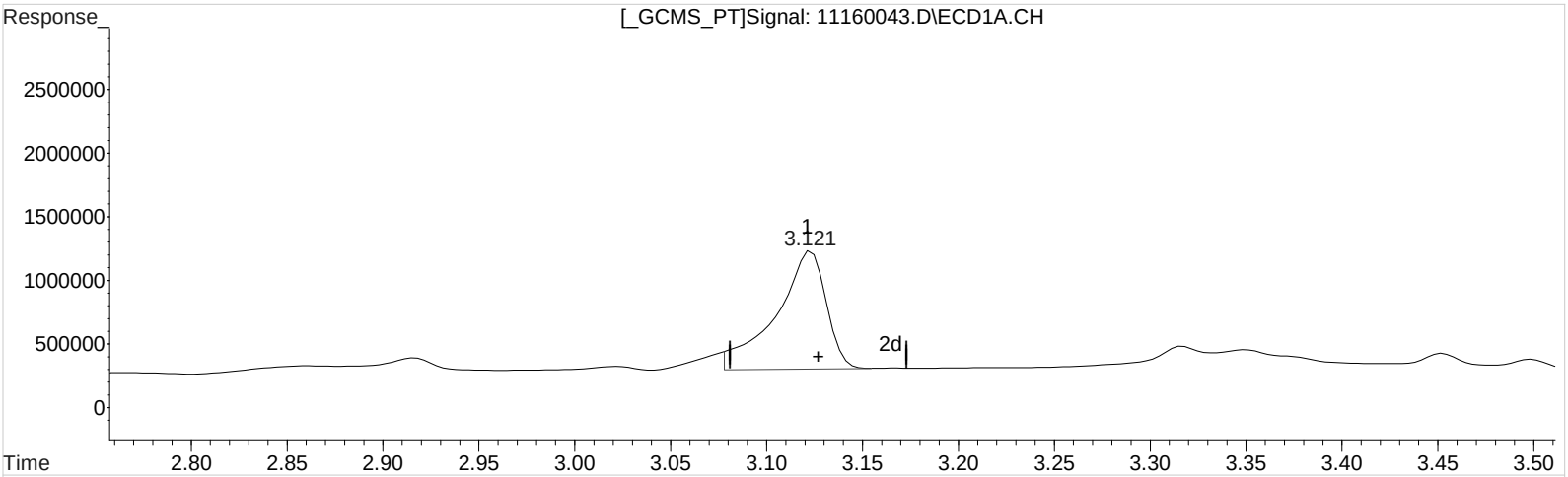
Quantitation Report (Qedit)

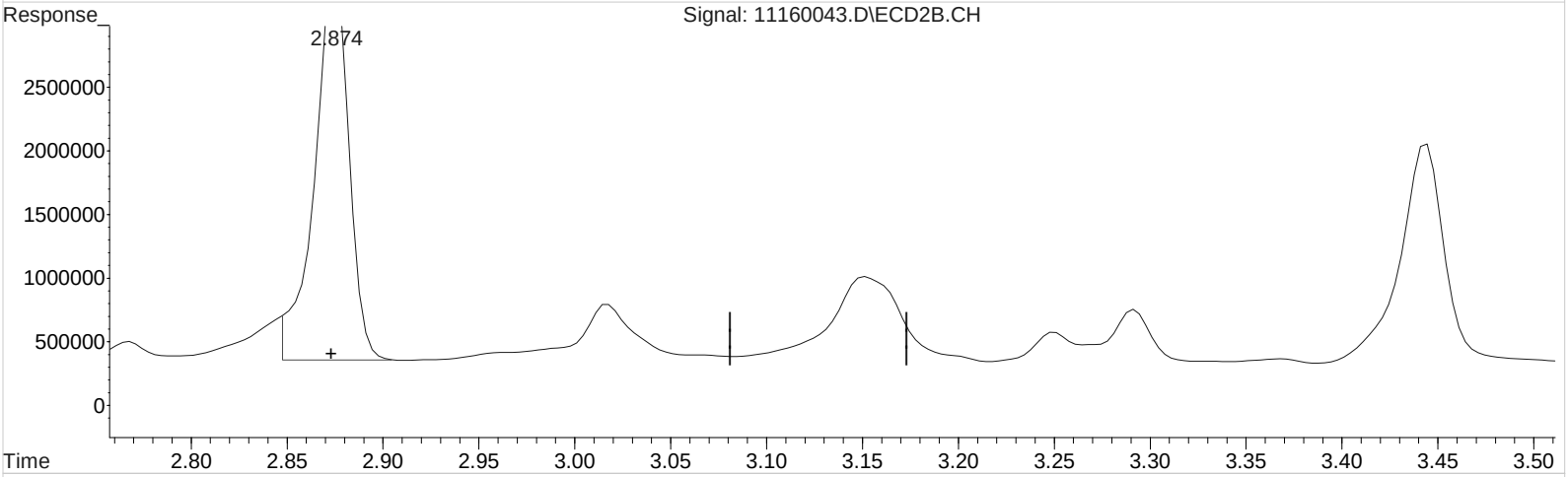
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160043.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:30 am Operator: UA
Sample : KQ2017248-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:12:05 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 17:31:59 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)

3.121min 68.886 ppb m

response 1671065

(1) Dalapon #2 (m)

2.874min 77.572 ppb m

response 3747705

Manual Integration:

After

Baseline/Shoulder

11/19/20

(+) = Expected Retention Time

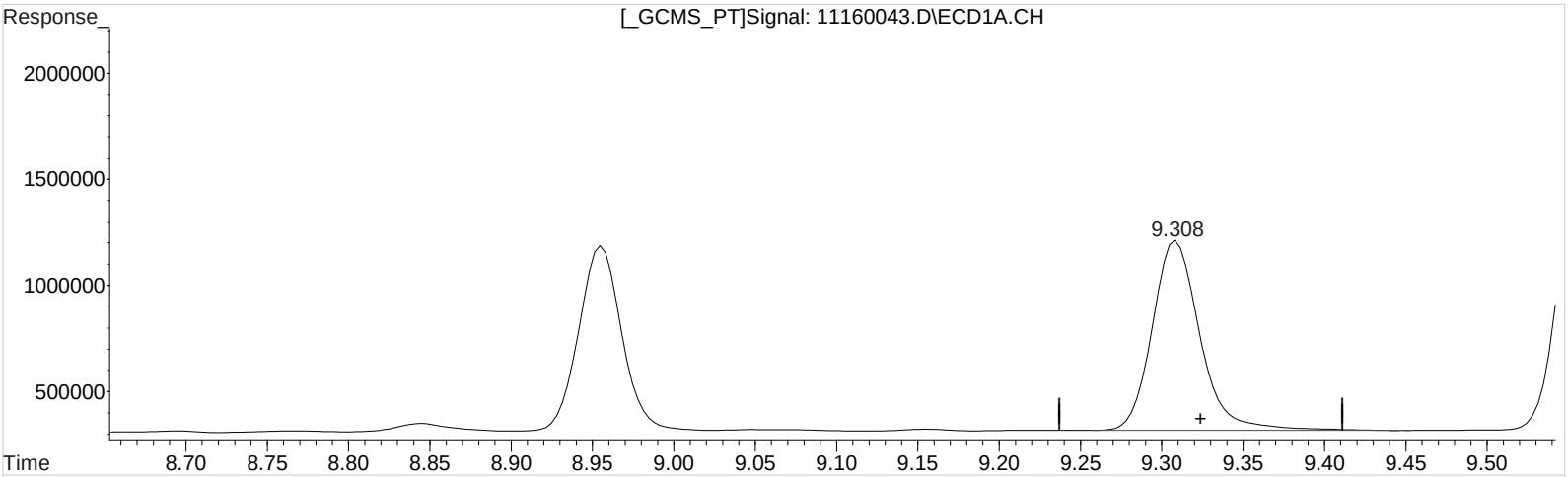
Quantitation Report (Qedit)

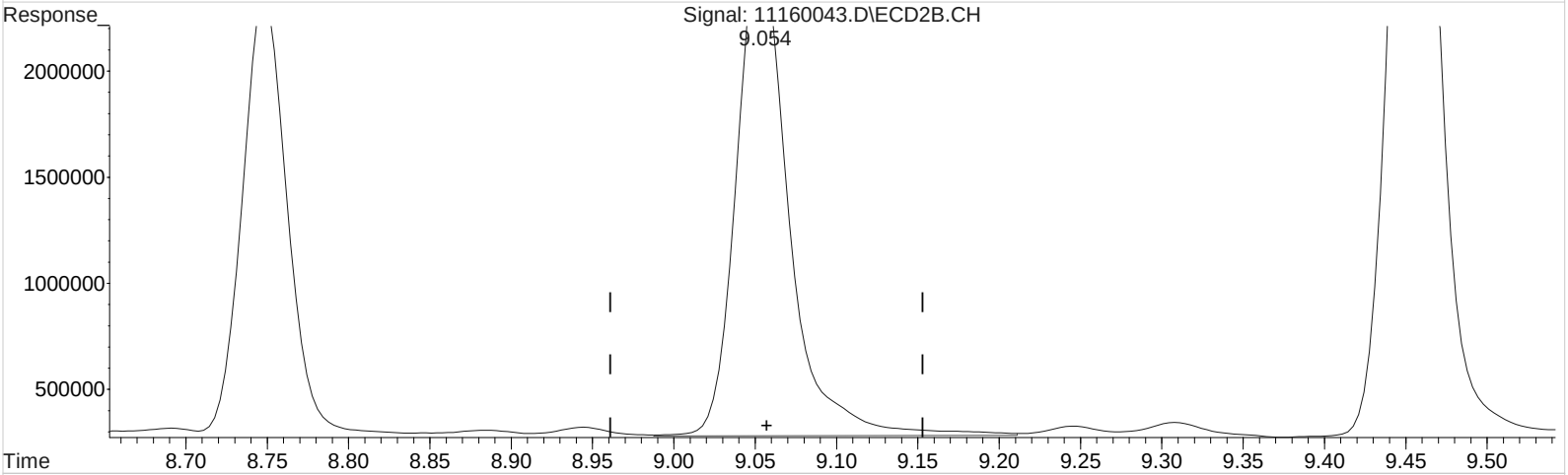
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160043.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:30 am Operator: UA
Sample : KQ2017248-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:12:05 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 17:31:59 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)

9.308min 85.995 ppb

response 1826551

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

9.054min 99.849 ppb

response 5112106

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

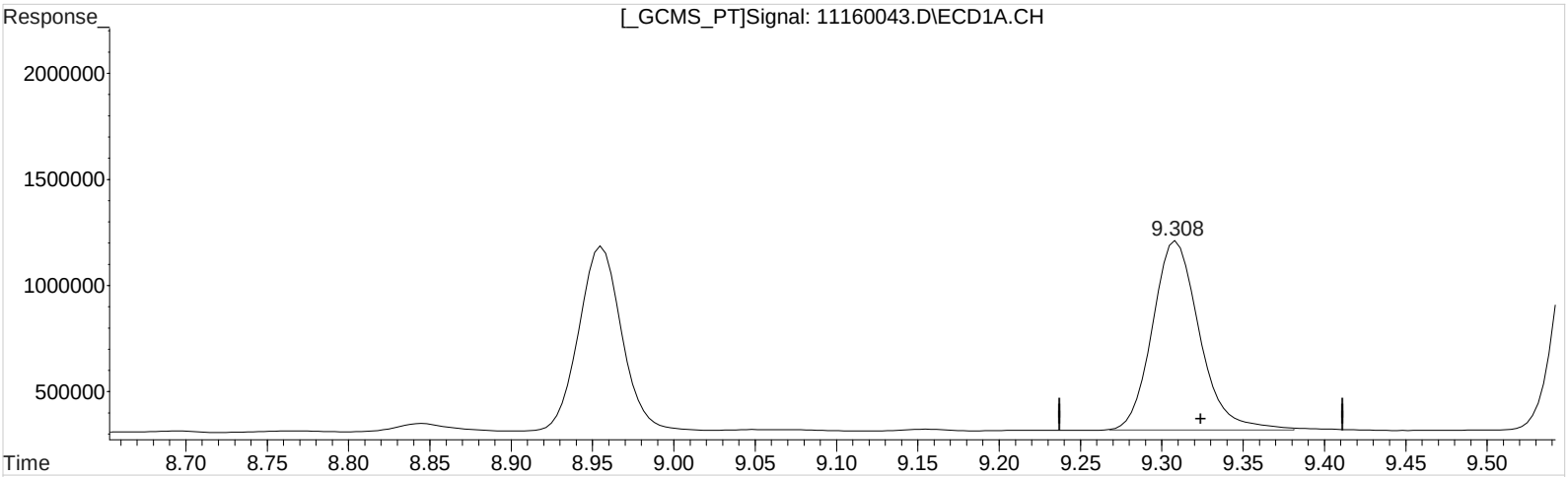
Quantitation Report (Qedit)

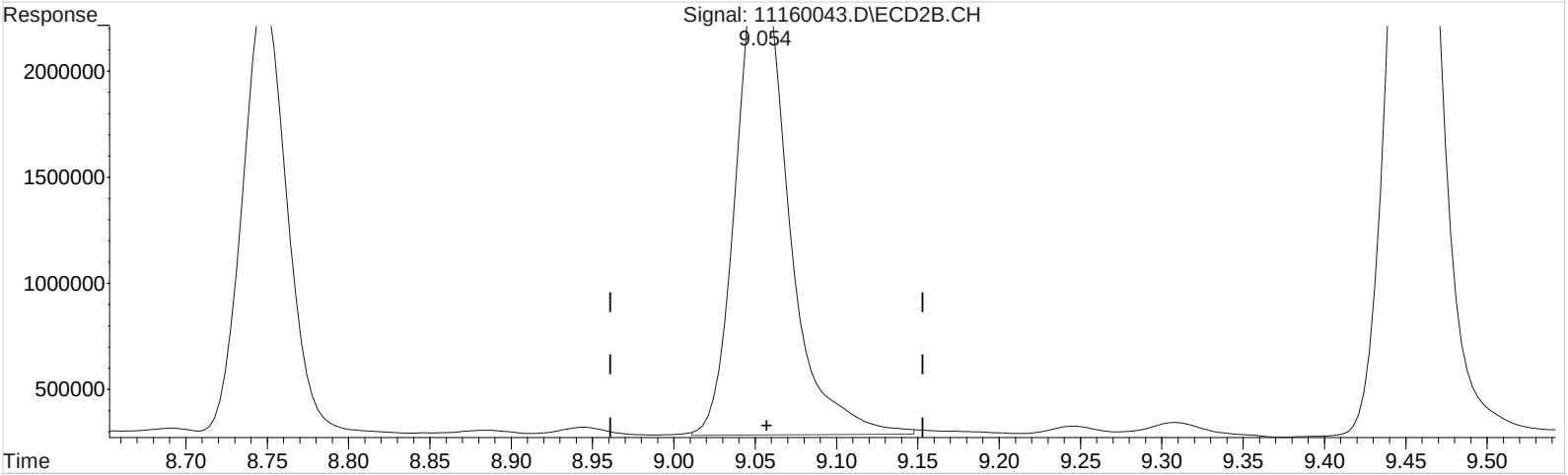
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160043.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:30 am Operator: UA
Sample : KQ2017248-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:12:05 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 17:31:59 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)

9.308min 84.403 ppb m

response 1792727

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

9.054min 97.666 ppb m

response 5000349

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160044.D\
Lab ID: KQ2017248-02
RunType: DMS
Matrix: Sediment

Date Acquired: 11/17/20 09:53:00
Batch ID: 703644
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	30		20	RO
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160044.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 09:53:00	**Vial:**	31
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ2017248-02	**Raw Units:**	ppb

Bottle ID:	K2010070-005.02	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**	369148	**Report Group:**	KQ2017248
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/4/20		

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	7.98	7.81	1674240	4570948	92.008	108.066	92	108	92	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	10.25	10.12	8717581	22540852	93.056	111.040[CCV]	155	185	**155**	Y
2,4-D	9.31	9.05	1898252	5185360	89.371	101.279[CCV]	149	169	**149**	Y

Prep Amount:	30.038 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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160044.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:53 am Operator: UA
Sample : KQ2017248-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:15:32 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 17:31:59 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...	7.983	7.812	1674240	4570948	92.008	108.066
	Target Compounds						
1) m	Dalapon	3.123	2.876	1667963	4003929	68.758m	82.875m
3) m	Dicamba	8.203	7.916	6472877	14642523	92.735	98.794
4) m	MCPP	8.289	8.102	437606	1862264	9925.696	11452.068
5) m	MCPA	8.553	8.349	543932	2588169	9289.642	11800.308 #
6) m	Dichloroprop	8.953	8.746	1656381	4115066	88.825	98.647
7) m	2,4-D	9.309	9.052	1898252	5185360	89.371	101.279
8) m	2,4,5-TP ...	10.249	10.122	8717581	22540852	93.056	111.040
9) m	2,4,5-T	10.693	10.522	7443552	20589202	90.214	107.590
10) m	2,4-DB	11.269	11.159	869124	2909666	84.715m	100.278
11) m	Dinoseb	11.669	11.309	3717125	9095841	60.083	66.511

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

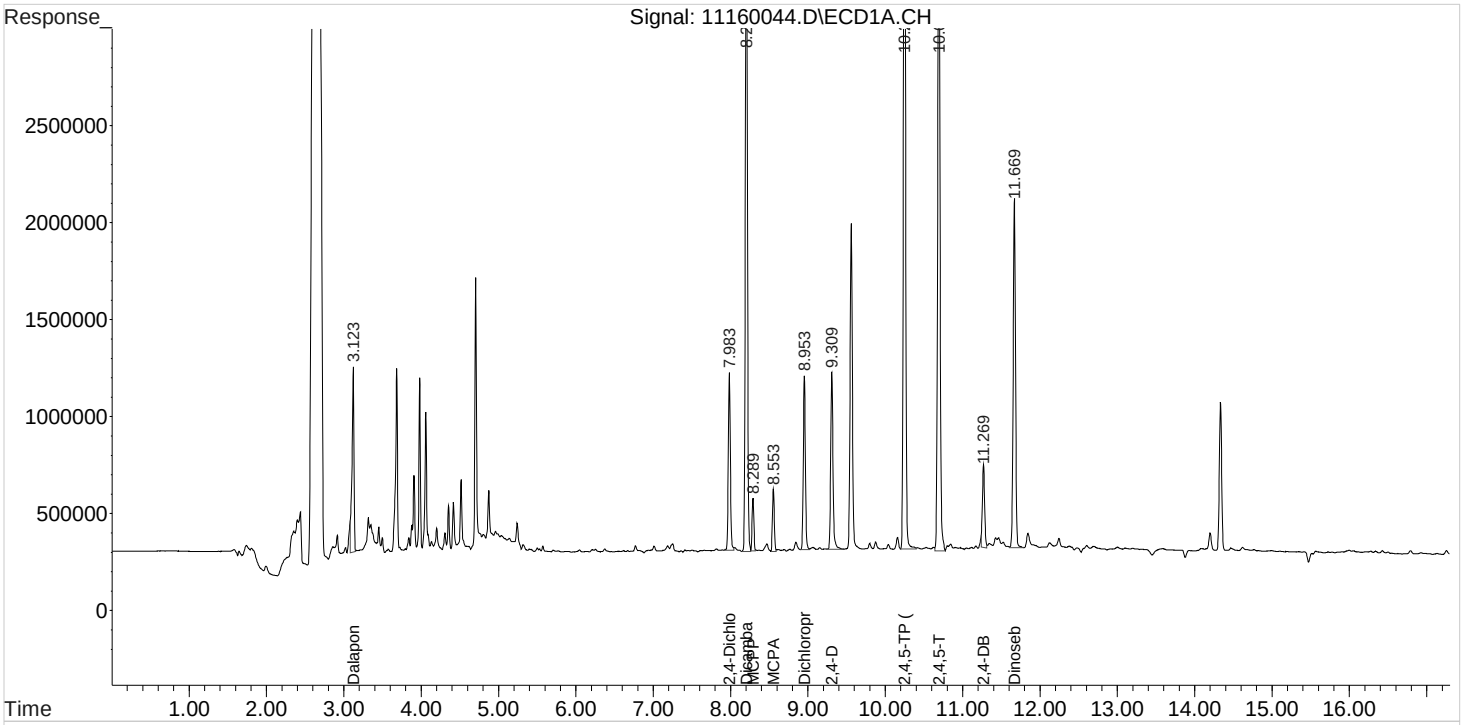
Quantitation Report (QT Reviewed)

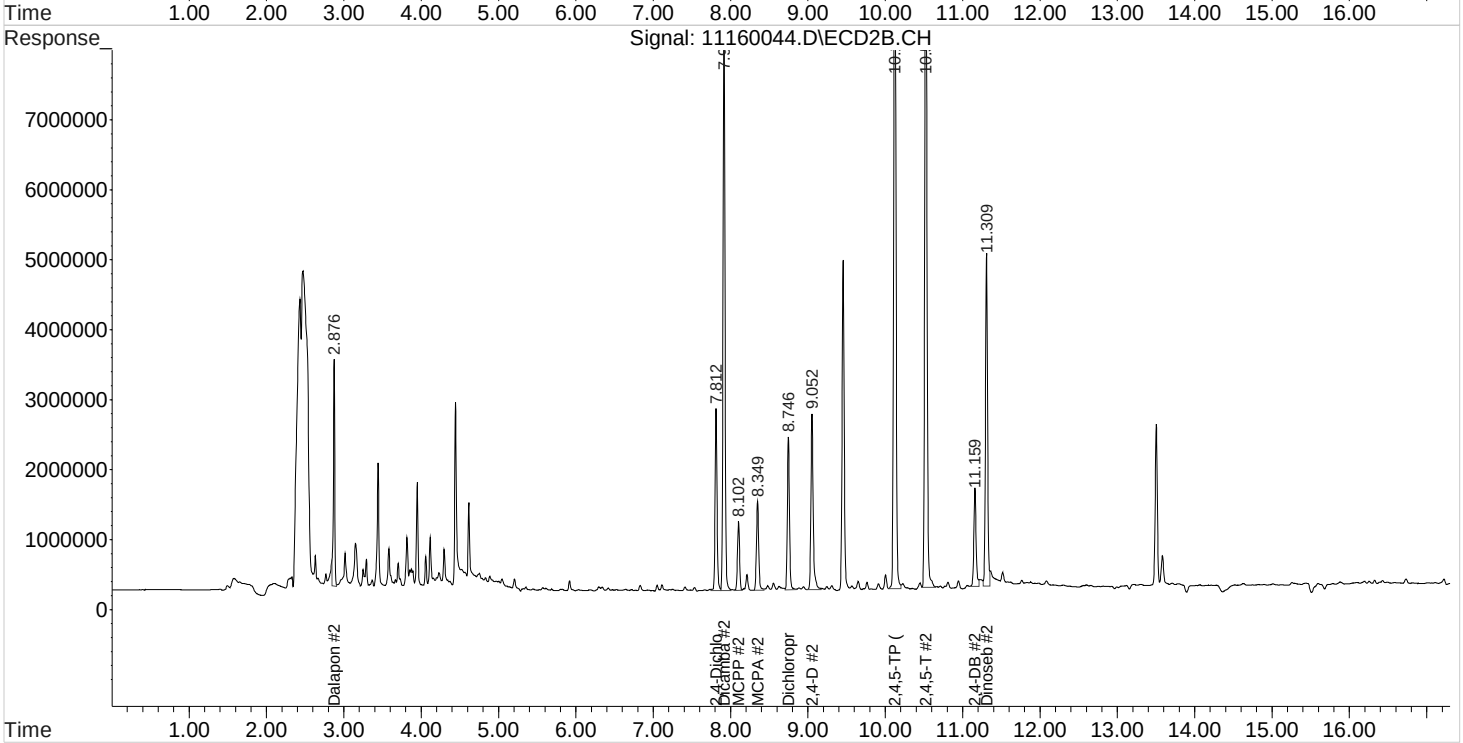
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160044.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:53 am Operator: UA
Sample : KQ2017248-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:15:32 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 17:31:59 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





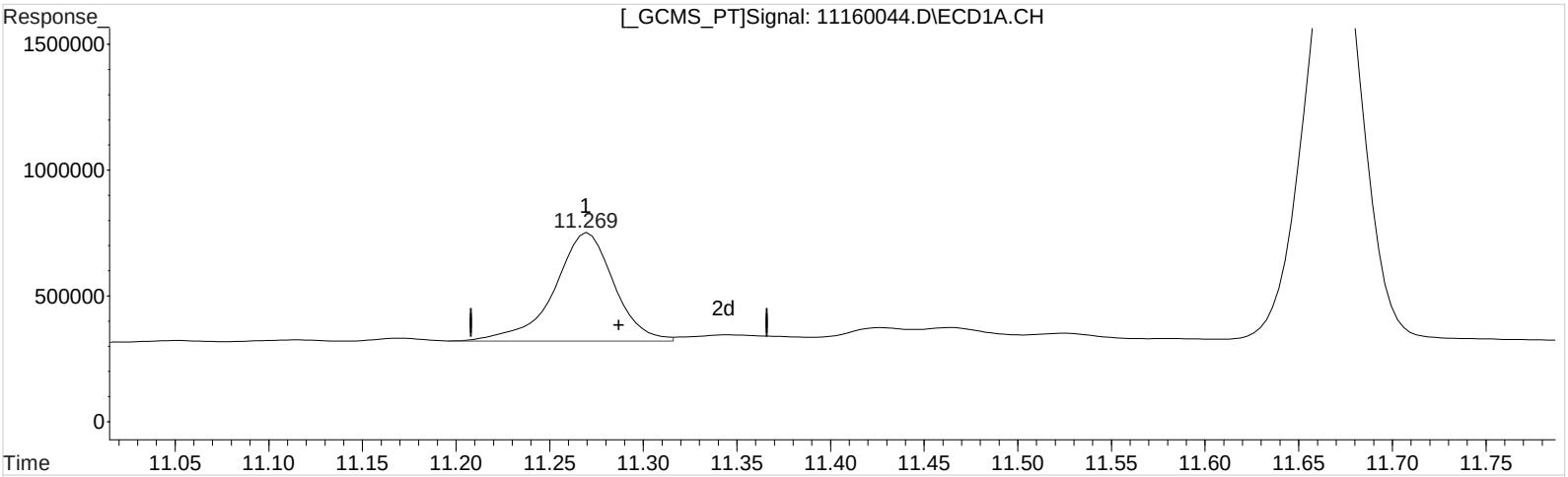
Quantitation Report (Qedit)

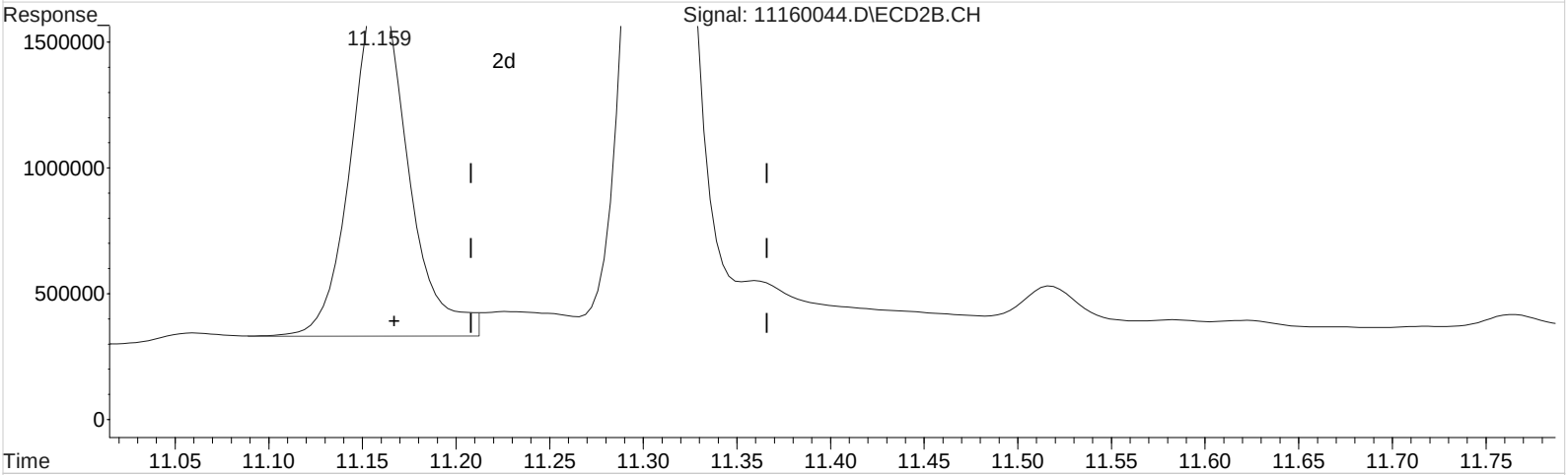
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160044.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:53 am Operator: UA
Sample : KQ2017248-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:14:25 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





QEdit

(10) 2,4-DB (m)

11.269min 92.993 ppb

response 954052

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

11.159min 100.278 ppb

response 2909666

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

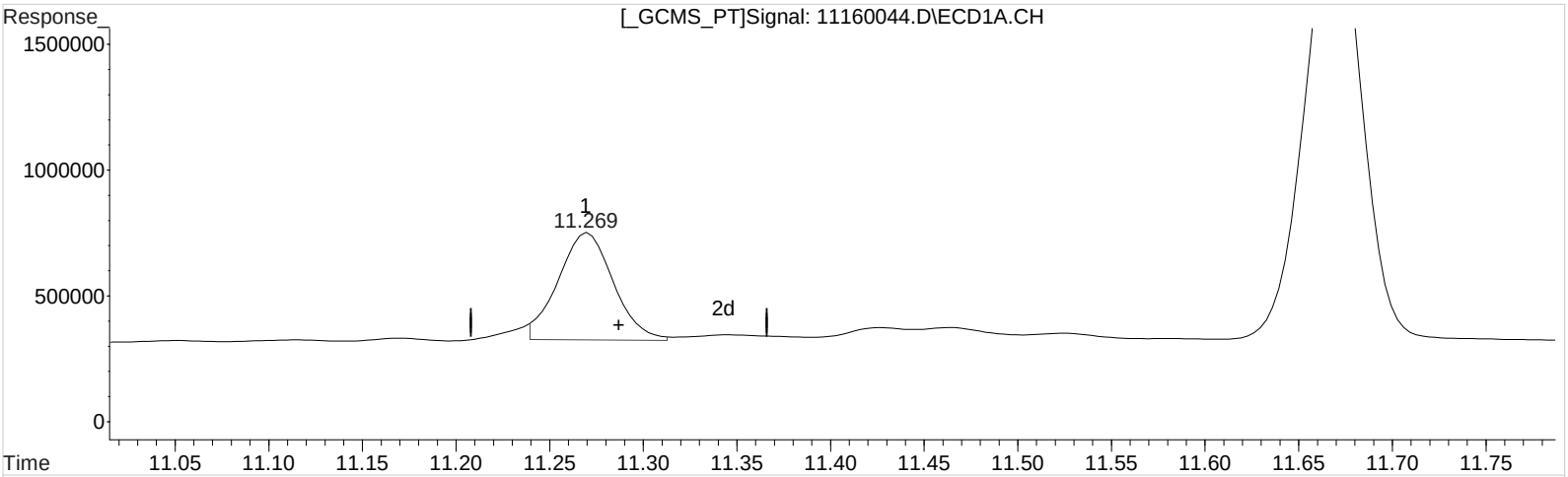
Quantitation Report (Qedit)

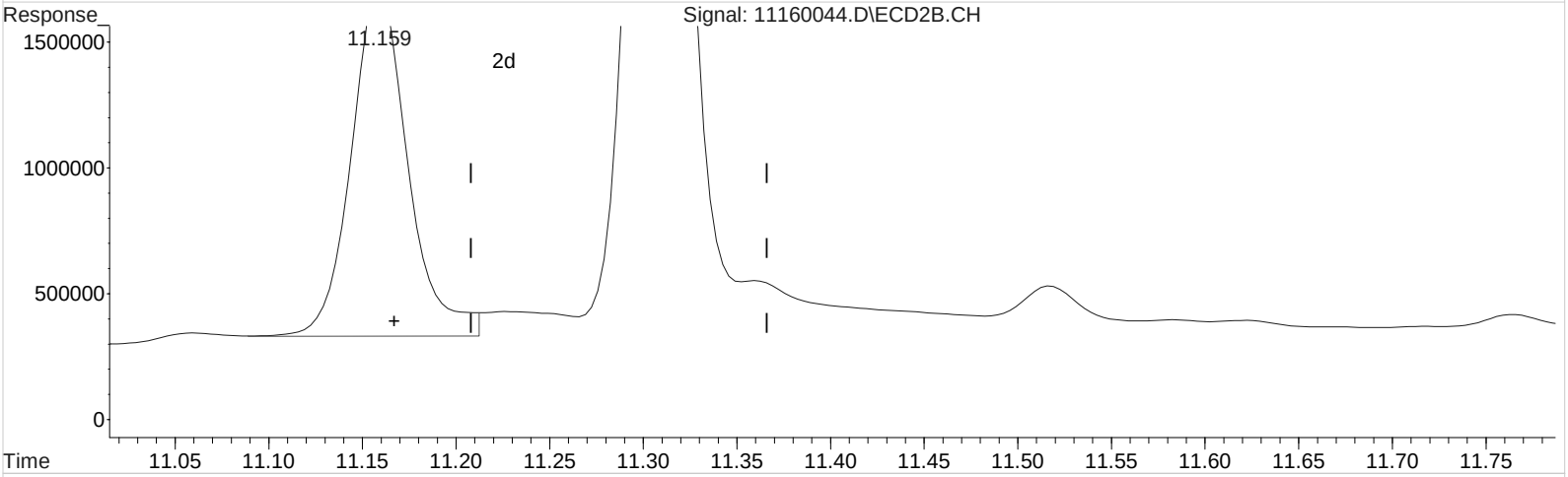
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160044.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:53 am Operator: UA
Sample : KQ2017248-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:14:25 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





QEdit

(10) 2,4-DB (m)

11.269min 84.715 ppb m

response 869124

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

11.159min 100.278 ppb

response 2909666

(+) = Expected Retention Time

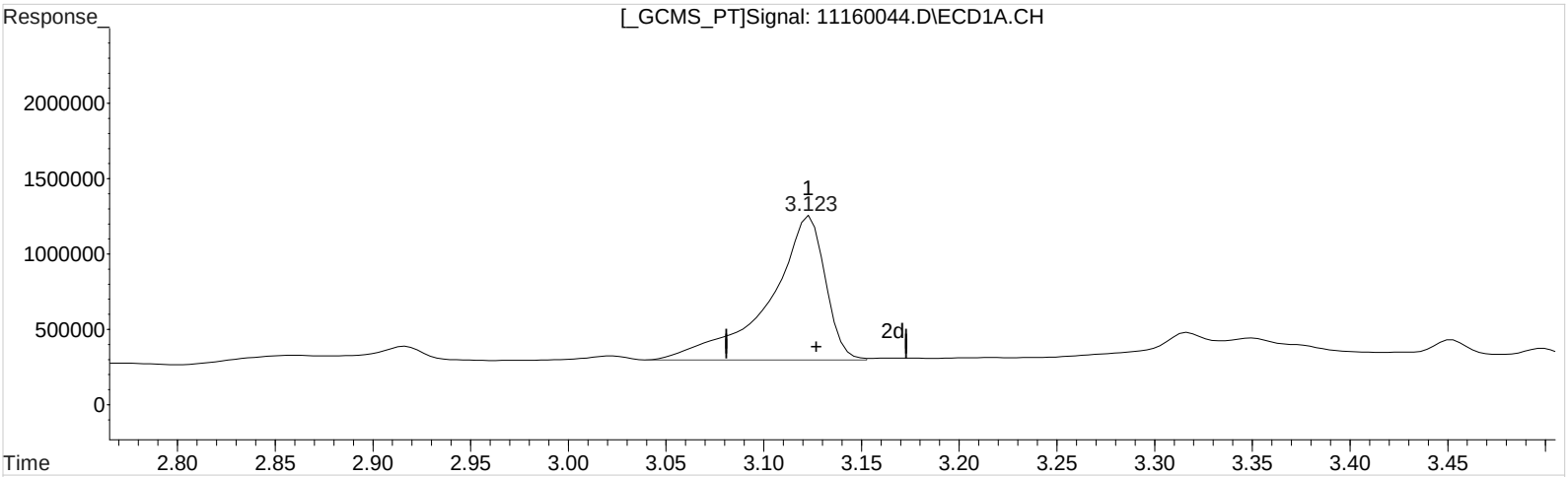
Quantitation Report (Qedit)

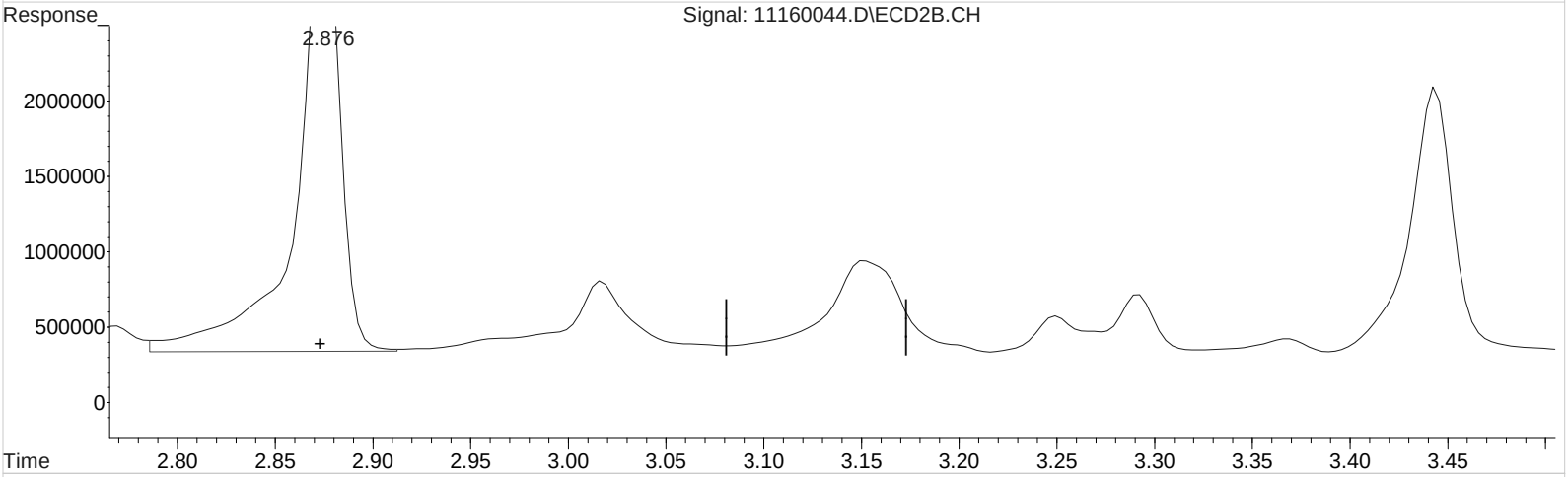
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160044.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:53 am Operator: UA
Sample : KQ2017248-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:14:25 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





QEdit

(1) Dalapon (m)

3.123min 78.066 ppb

response 1893769

(1) Dalapon #2 (m)

2.876min 96.222 ppb

response 4648740

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

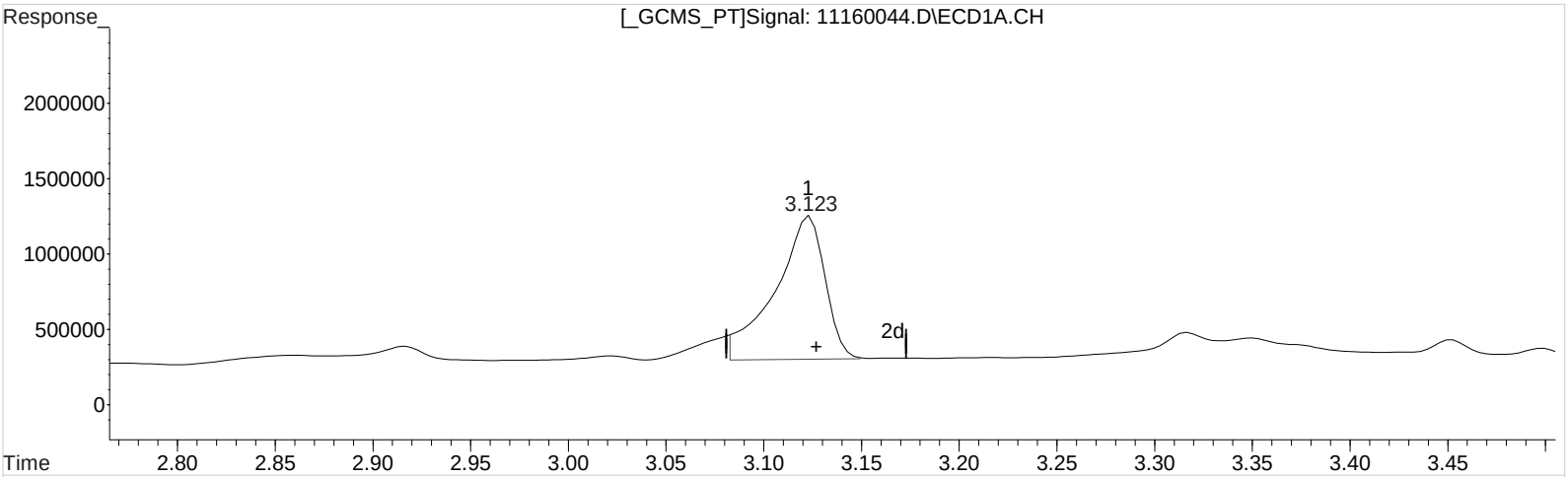
Quantitation Report (Qedit)

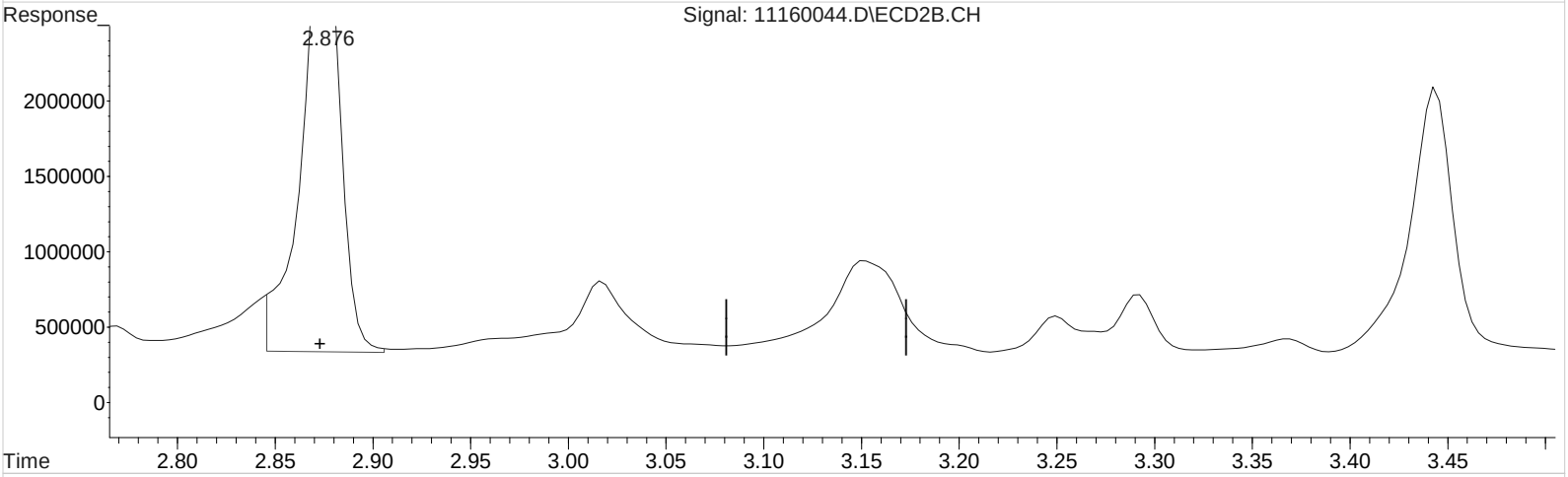
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160044.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 9:53 am Operator: UA
Sample : KQ2017248-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 19 15:14:25 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





QEdit

(1) Dalapon (m)

3.123min 68.758 ppb m

response 1667963

Manual Integration:

After

Baseline/Shoulder

11/19/20

(1) Dalapon #2 (m)

2.876min 82.875 ppb m

response 4003929

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160004.D\
Lab ID: KQ2018353-02
RunType: CCB
Matrix: Sediment

Date Acquired: 11/16/20 18:23:00
Batch ID: 703644
Analysis Method: 8151A/HERB

Validations

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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	26		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	27		20	CCV+ND

Primary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160004.D\	**Instrument:**	K-GC-24
Acqu Date:	11/16/20 18:23:00	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2018353-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**		**Report Group:**	KQ2018353
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	8.00 +0.02	7.82 +0.01	15437	37784	0.848	0.893				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	10.25	10.12	7168	22086	0.077	0.109 CCV	0.13U	0.18U	2.4 U	Y
2,4-D	0.00	9.04 -0.01	0	2734	0.000	0.053	0U	0.088U	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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160004.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 6:23 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 19 14:02:55 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	7.821	15437	37784	0.848	0.893	
	Target Compounds							
1) m	Dalapon	3.134	2.901f	6119	38147	0.252	0.790	#
3) m	Dicamba	8.208	7.917	4924	13700	0.071m	0.092	#
4) m	MCPP	8.354f	8.124	2724	7741	567.395	N.D.	#
5) m	MCPA	8.574	8.361	1434	4116	24.491	N.D.	#
6) m	Dichloroprop	8.981	8.757	9875	5845	0.530	0.140	#
7) m	2,4-D	0.000	9.044	0	2734	N.D. d	0.053	
8) m	2,4,5-TP ...	10.254	10.124	7168	22086	0.077m	0.109	#
9) m	2,4,5-T	10.701	10.537	1523	21206	0.018	0.111	#
10) m	2,4-DB	11.341f	0.000	4096	0	0.399	N.D.	#
11) m	Dinoseb	11.668	11.311	8732	17057	0.141	0.125	

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

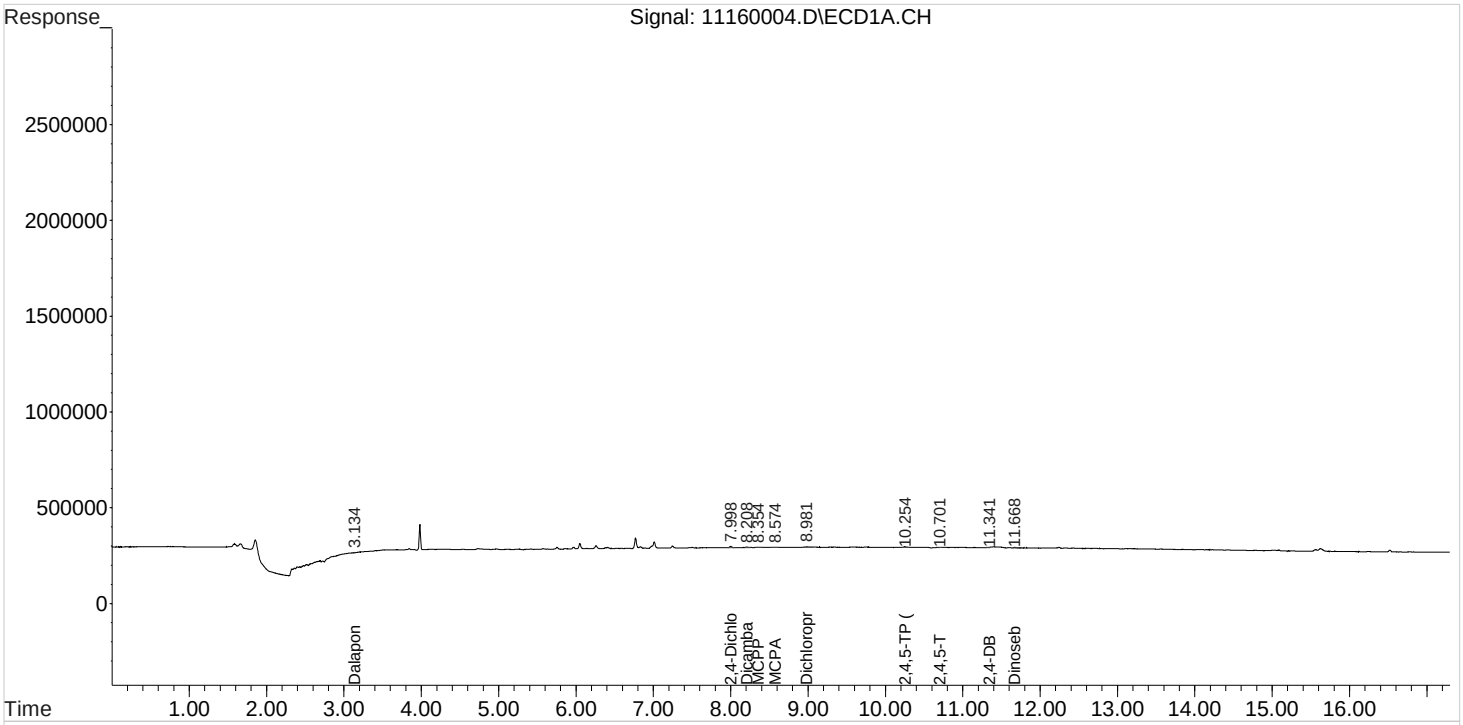
Quantitation Report (QT Reviewed)

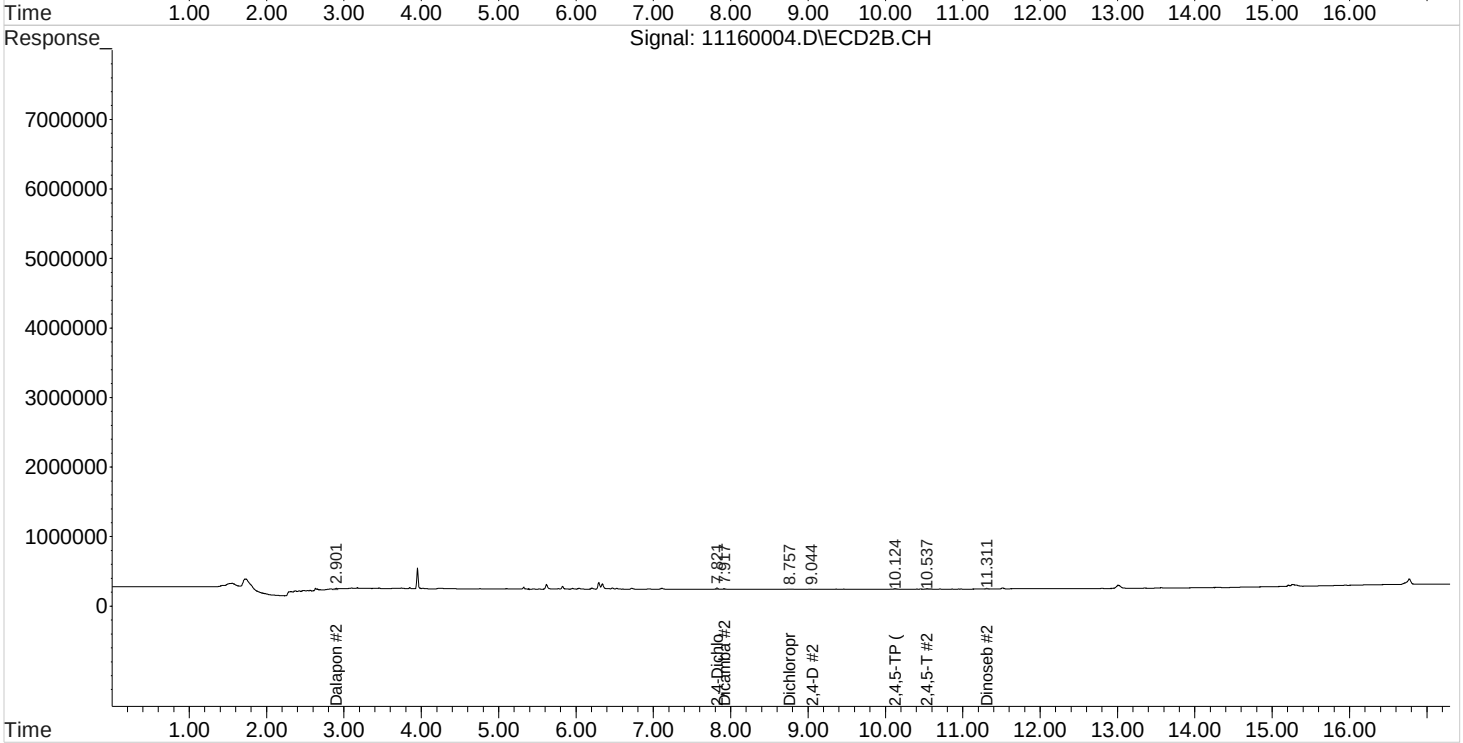
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160004.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 6:23 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 19 14:02:55 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





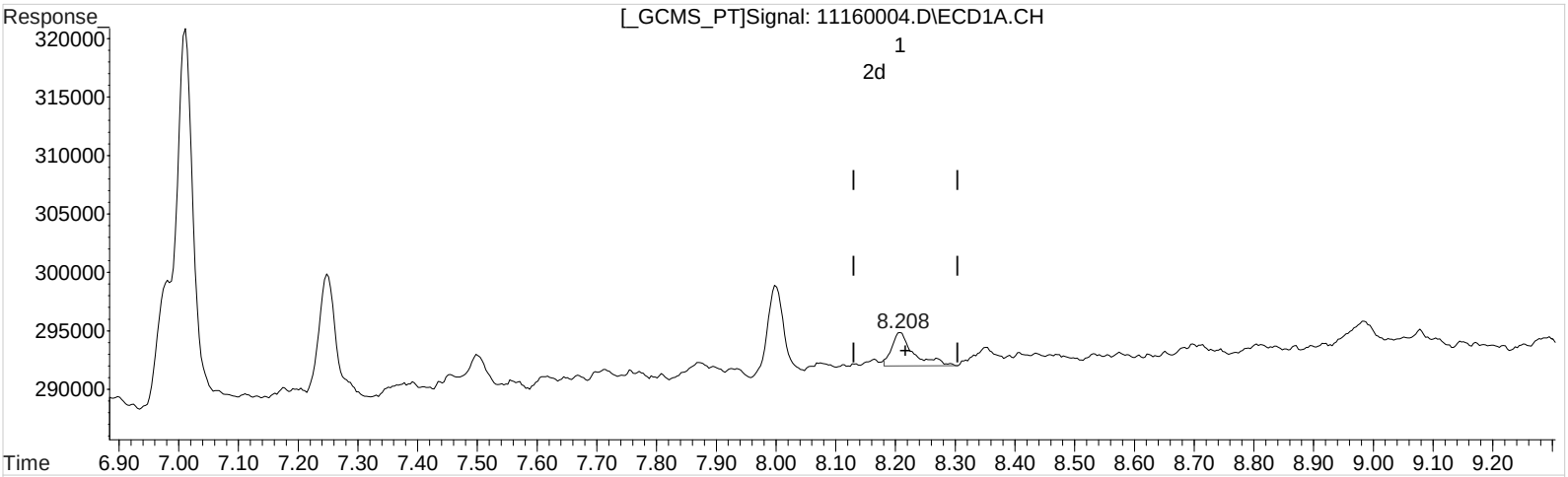
Quantitation Report (Qedit)

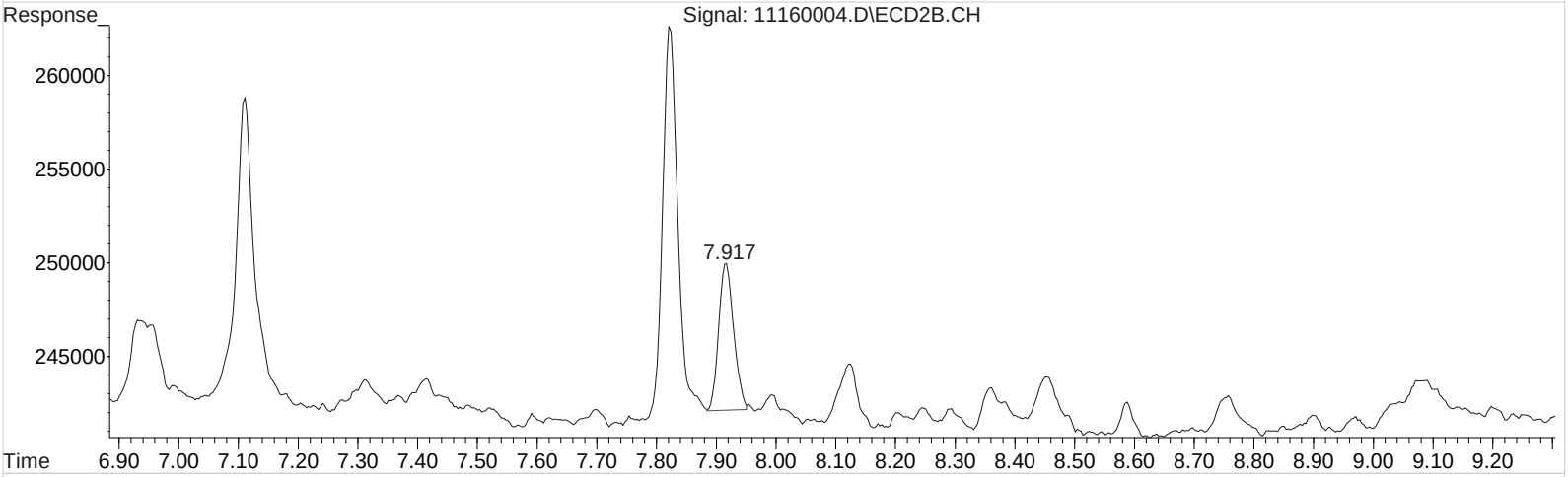
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160004.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 6:23 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 19 14:02:18 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

(3) Dicamba (m)

8.208min 0.103 ppb

response 7165

Manual Integration:

Before

11/19/20

(3) Dicamba #2 (m)

7.917min 0.092 ppb

response 13700

(+) = Expected Retention Time

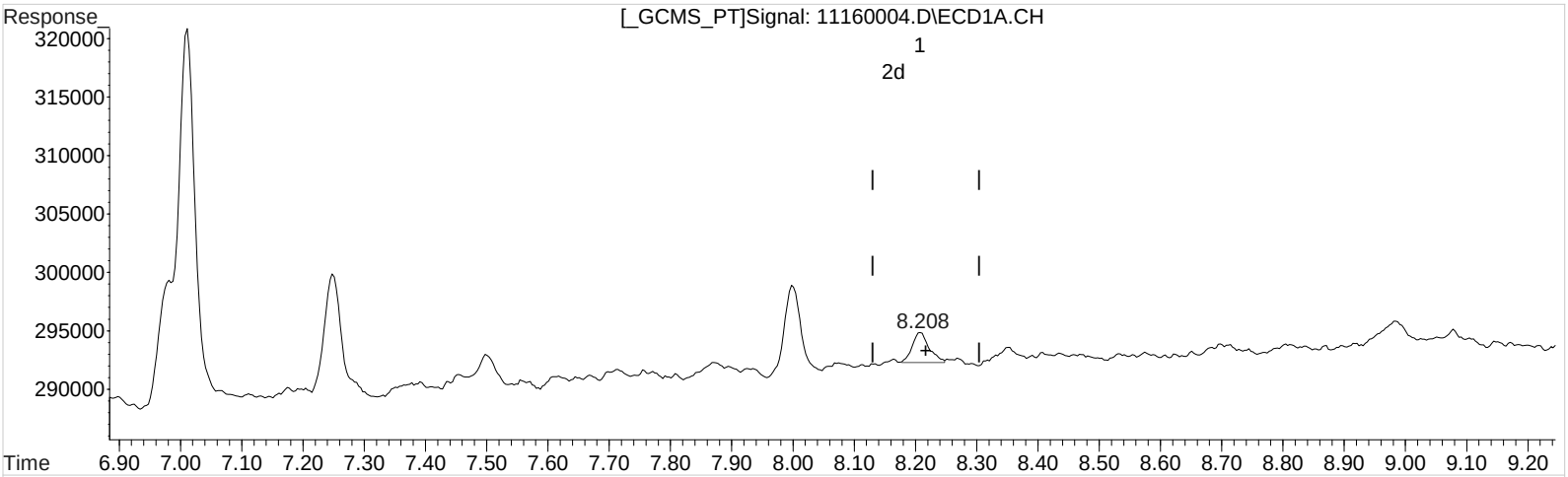
Quantitation Report (Qedit)

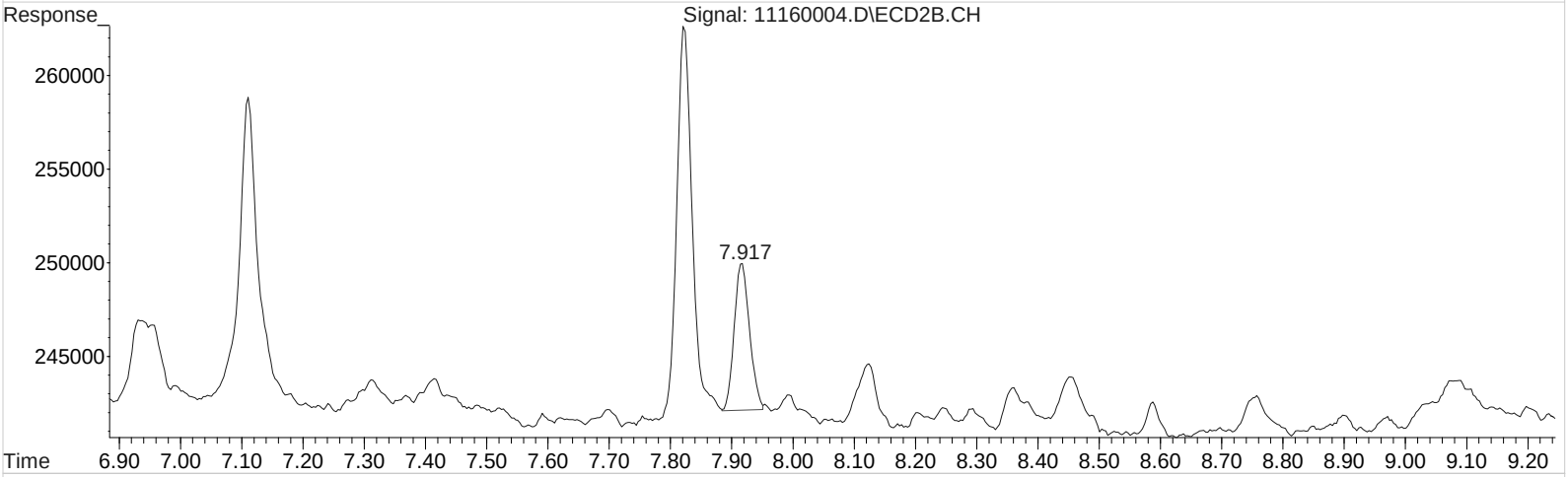
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160004.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 6:23 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 19 14:02:18 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

(3) Dicamba (m)

8.208min 0.071 ppb m

response 4924

(3) Dicamba #2 (m)

7.917min 0.092 ppb

response 13700

Manual Integration:

After

Baseline/Shoulder

11/19/20

(+) = Expected Retention Time

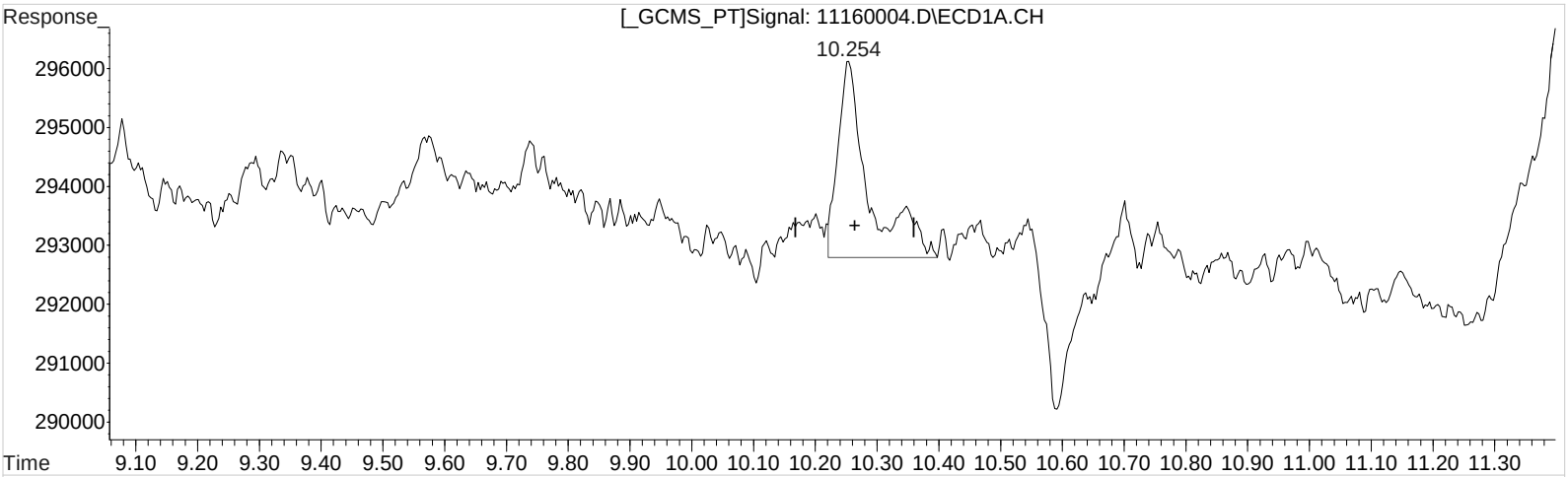
Quantitation Report (Qedit)

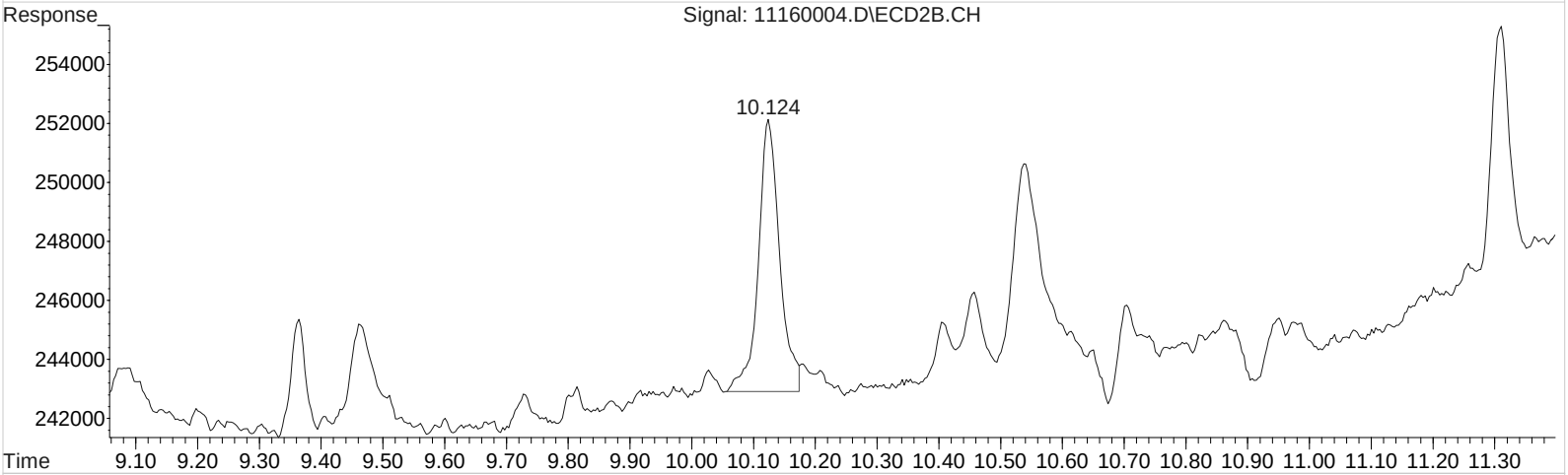
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160004.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 6:23 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 19 14:02:18 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)

10.254min 0.121 ppb

response 11343

Manual Integration:

Before

11/19/20

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

10.124min 0.109 ppb

response 22086

(+) = Expected Retention Time

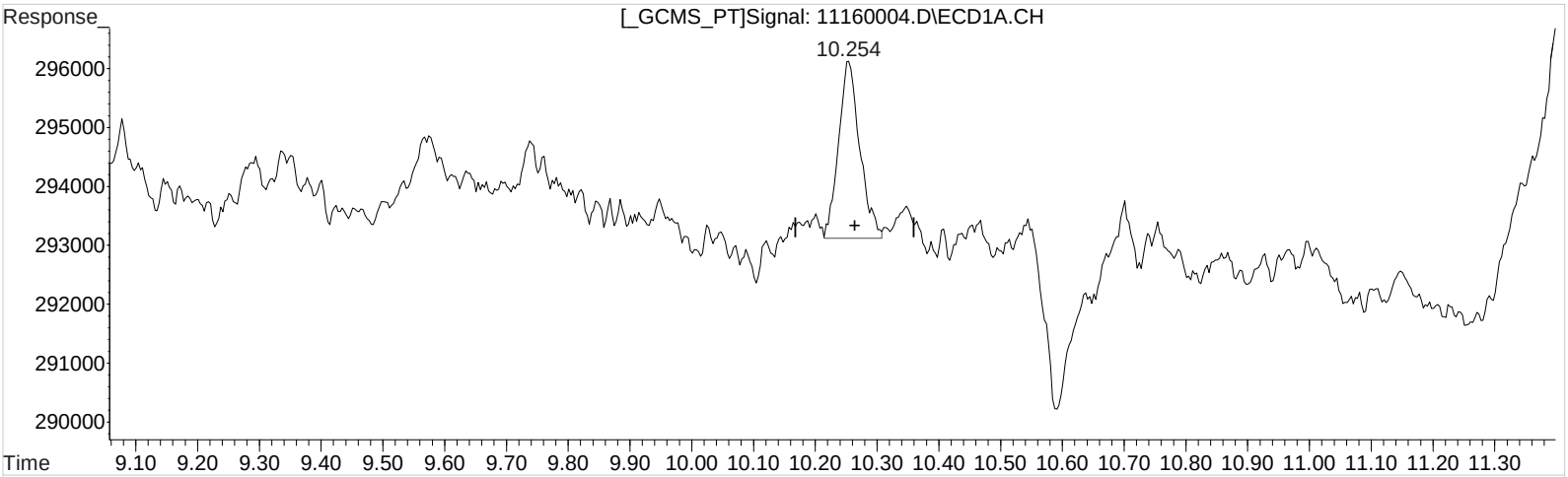
Quantitation Report (Qedit)

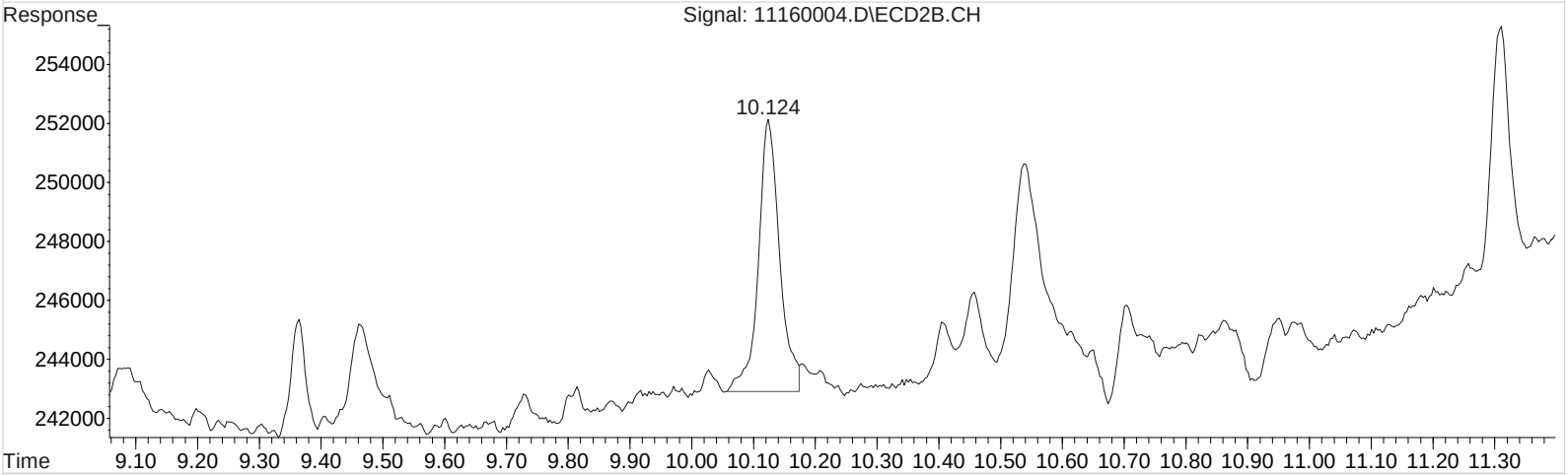
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160004.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 6:23 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 19 14:02:18 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)

10.254min 0.077 ppb m

response 7168

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

10.124min 0.109 ppb

response 22086

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160017.D\
Lab ID: KQ2018353-04
RunType: CCB
Matrix: Sediment

Date Acquired: 11/16/20 23:36:00
Batch ID: 703644
Analysis Method: 8151A/HERB

Validations

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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160017.D\	**Instrument:**	K-GC-24
Acqu Date:	11/16/20 23:36:00	**Vial:**	4
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2018353-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**		**Report Group:**	KQ2018353
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	8.00 +0.02	7.82 +0.01	15933	37201	0.876	0.880				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	10.25 +0.01	10.12	6835	17932	0.073	0.088 CCV	0.12U	0.15U	2.4 U	Y
2,4-D	0.00	9.04 -0.01	0	7582	0.000	0.148 CCV	0U	0.25U	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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160017.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 11:36 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 19 14:16:03 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 17:31:59 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...	7.997	7.820	15933	37201	0.876	0.880	
	Target Compounds							
1) m	Dalapon	3.130	2.880	5635	11708	0.232	0.242	
3) m	Dicamba	8.207	7.916	4953	13147	0.071	0.089	#
4) m	MCPP	8.270	8.116	1161	7012	533.760	N.D.	#
5) m	MCPA	8.550	8.363	2594	6499	44.302	N.D.	#
6) m	Dichloroprop	8.967	8.750	2176	3961	0.117	0.095	
7) m	2,4-D	0.000	9.040	0	7582	N.D. d	0.148	
8) m	2,4,5-TP ...	10.250	10.123	6835	17932	0.073	0.088	
9) m	2,4,5-T	10.693	10.536	3996	18418	0.048	0.096	#
10) m	2,4-DB	11.223f	0.000	3942	0	0.384	N.D.	#
11) m	Dinoseb	0.000	11.310	0	14603	N.D. d	0.107	

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

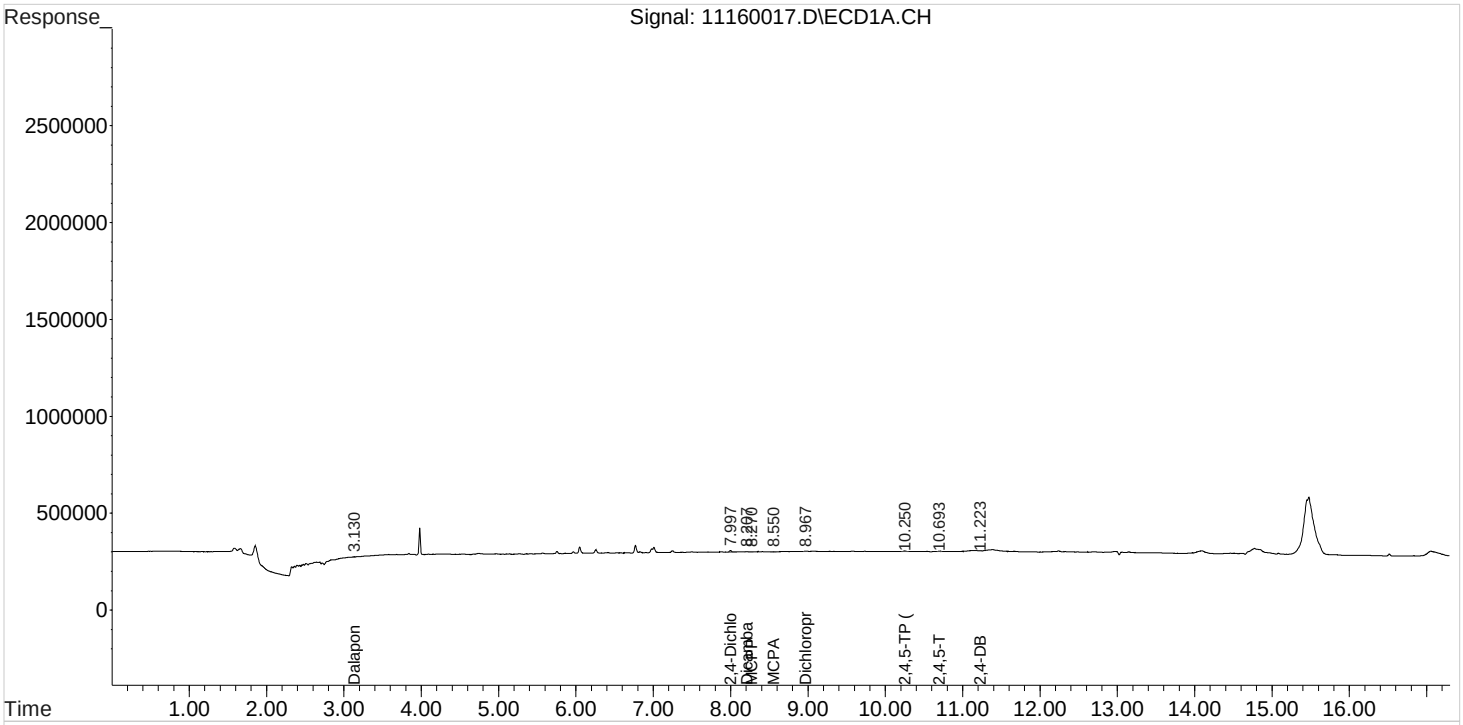
Quantitation Report (QT Reviewed)

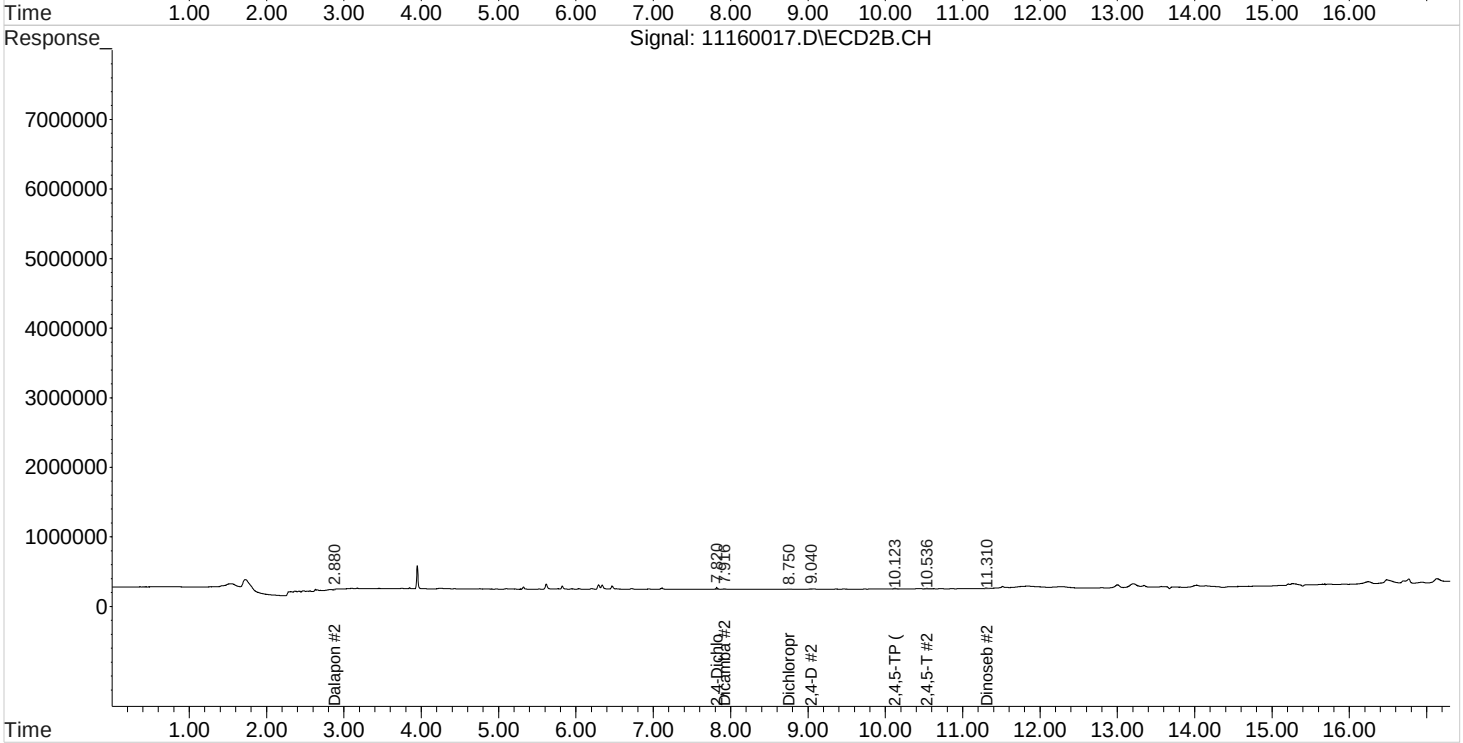
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160017.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 11:36 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 19 14:16:03 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 17:31:59 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 UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160029.D\
Lab ID: KQ2018353-06
RunType: CCB
Matrix: Sediment

Date Acquired: 11/17/20 04:10:00
Batch ID: 703644
Analysis Method: 8151A/HERB

Validations

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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	31		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	30		20	
	2,4-D	23		20	

Primary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160029.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 04:10:00	**Vial:**	6
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2018353-06	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**		**Report Group:**	KQ2018353
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 +0.03	7.84 +0.03	16178	44236	0.889	1.046				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 +0.03	10.14 +0.02	6684	18405	0.071	0.091 CCV	0.12U	0.15U	2.4 U	Y
2,4-D	0.00	9.05	0	36013	0.000	0.703 CCV	0U	1.2U	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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160029.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:10 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 19 14:41:21 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 17:31:59 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...	8.011	7.837	16178	44236	0.889m	1.046	
	Target Compounds							
1) m	Dalapon	3.131	2.904f	10309	40736	0.425	0.843	#
3) m	Dicamba	0.000	7.931	0	12644	N.D. d	0.085	
4) m	MCPP	8.364f	8.137	2095	6465	553.859	N.D.	#
5) m	MCPA	8.588	8.377	1005	4858	17.164	N.D.	#
6) m	Dichloroprop	8.998	8.771	8106	4069	0.435	0.098	#
7) m	2,4-D	0.000	9.047	0	36013	N.D. d	0.703	
8) m	2,4,5-TP ...	10.271	10.141	6684	18405	0.071m	0.091	#
9) m	2,4,5-T	0.000	10.557	0	21034	N.D. d	0.110	
10) m	2,4-DB	11.341f	11.204	5109	4811	0.498	0.166	#
11) m	Dinoseb	11.691	11.331	5946	22559	0.096	0.165	#

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

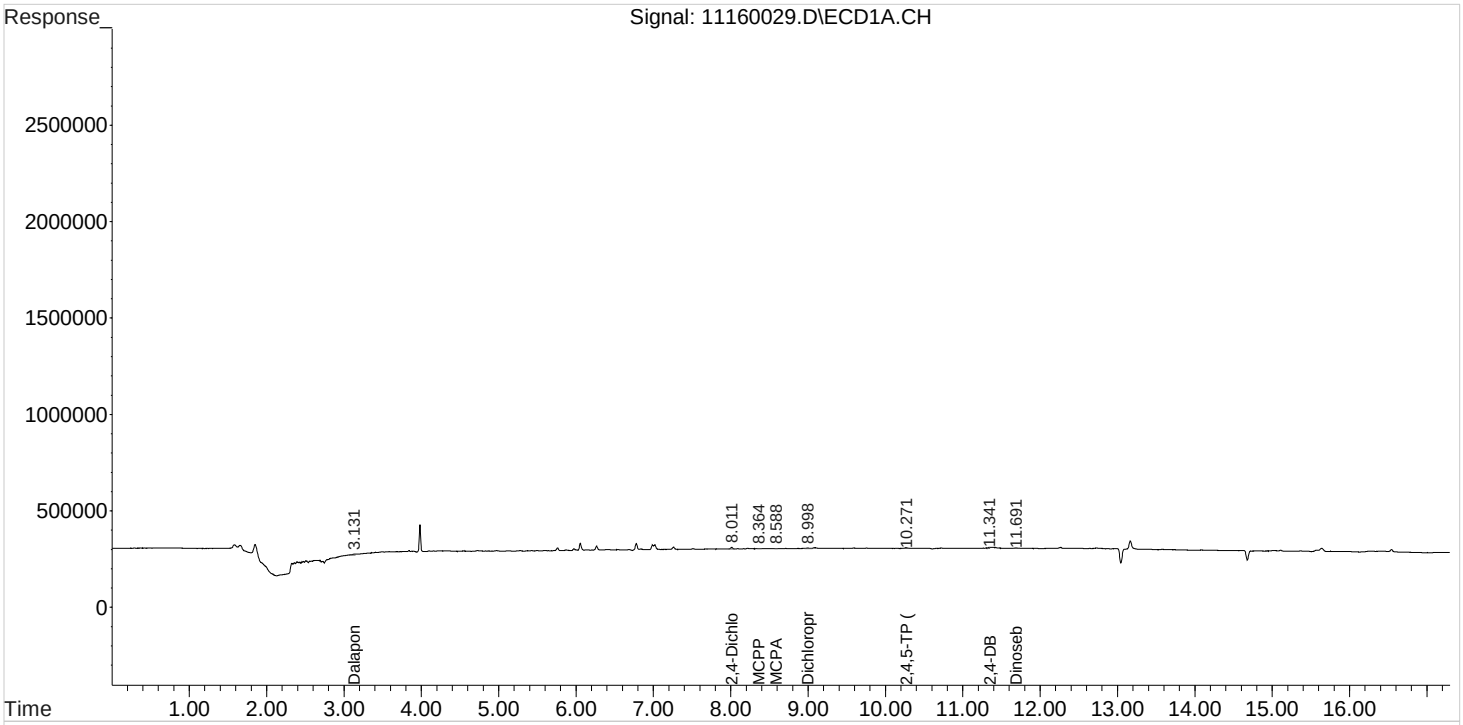
Quantitation Report (QT Reviewed)

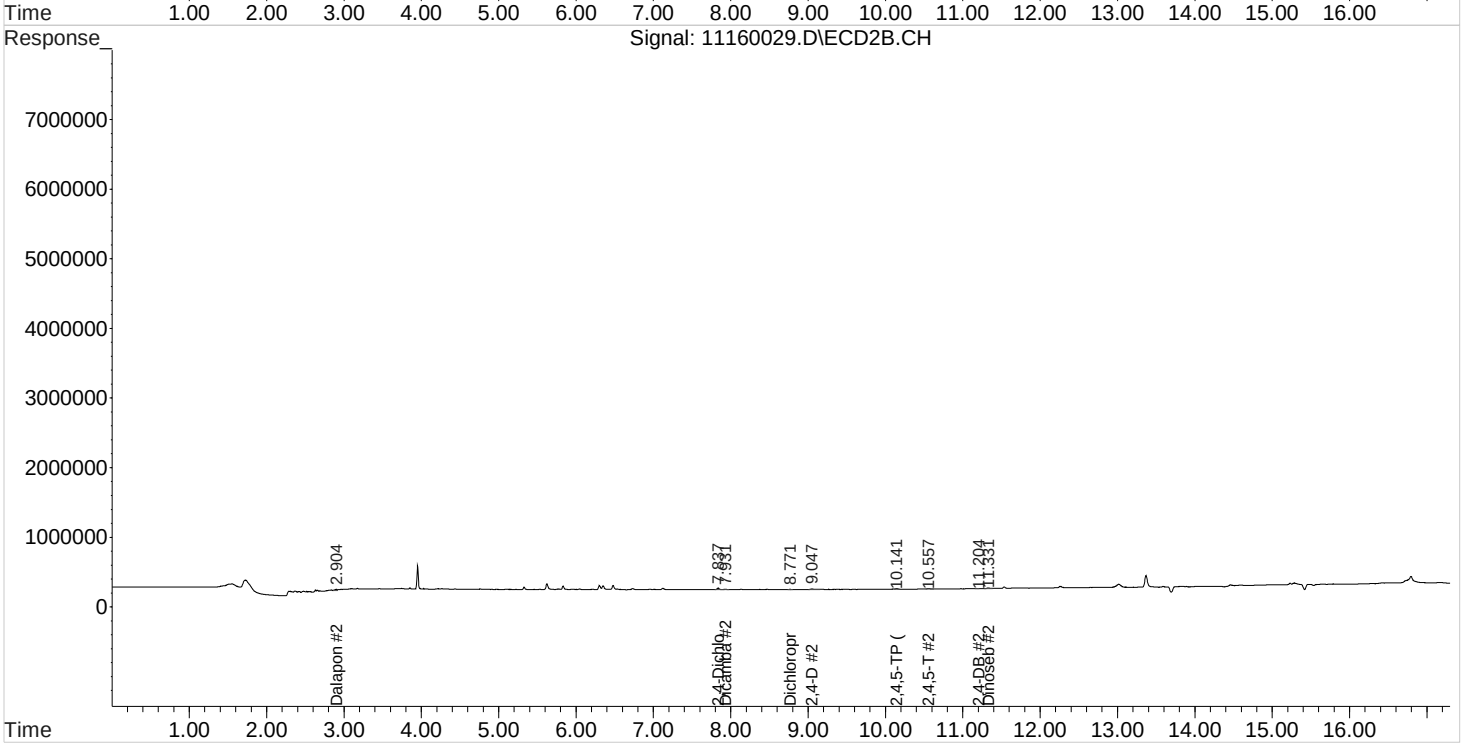
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160029.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:10 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 19 14:41:21 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 17:31:59 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





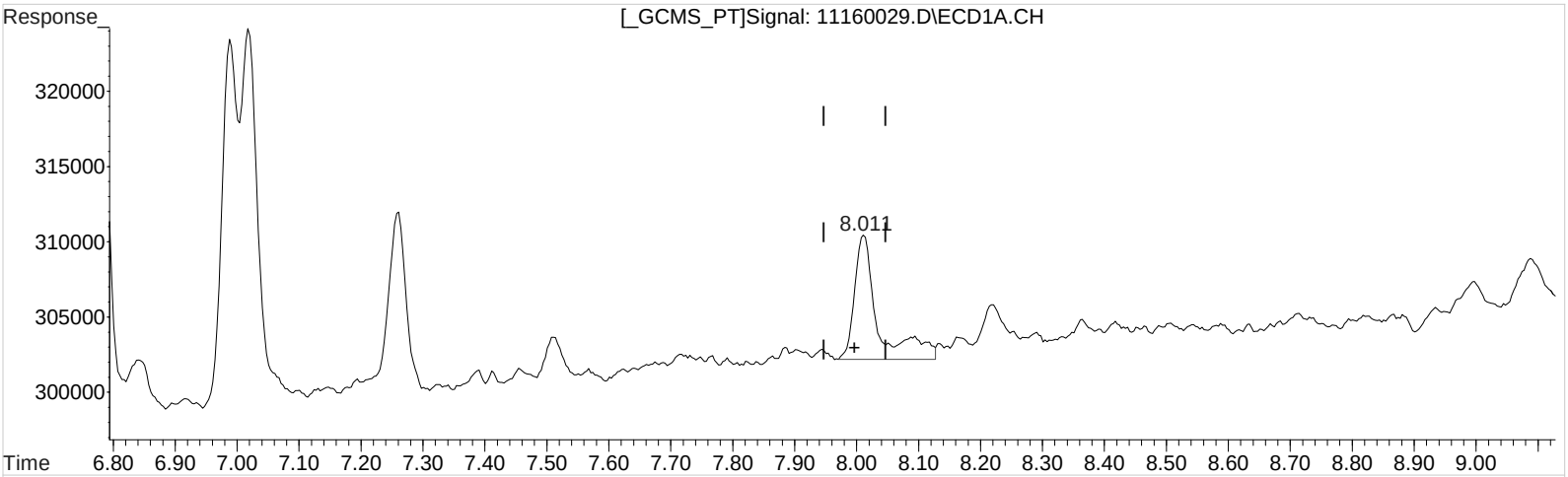
Quantitation Report (Qedit)

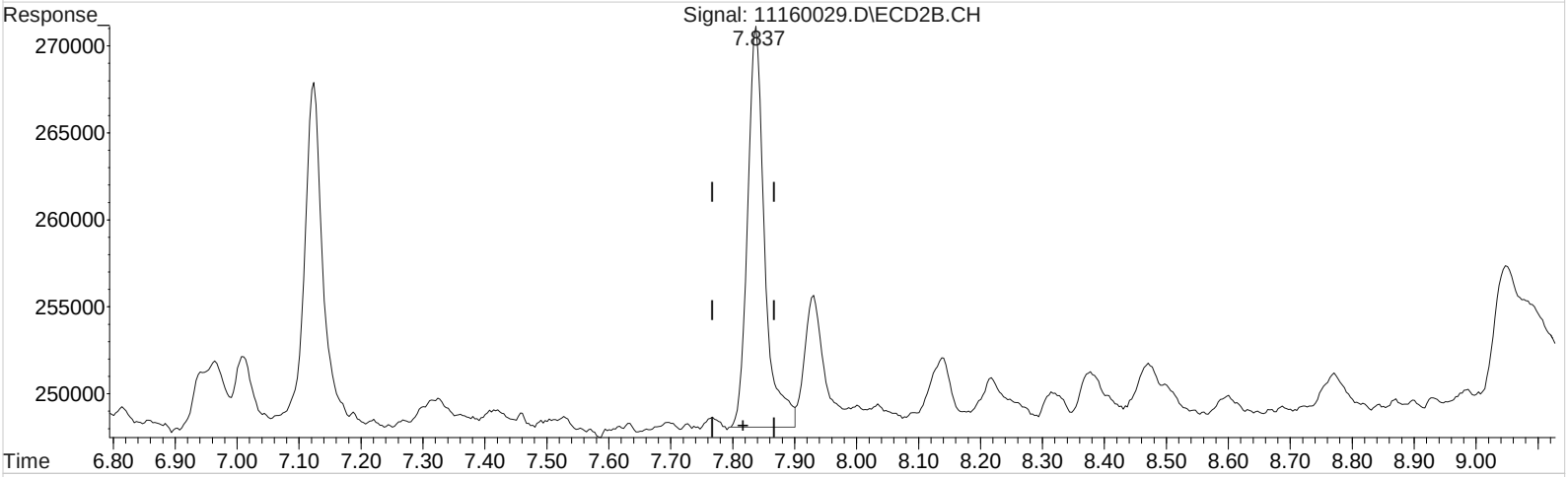
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160029.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:10 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 19 14:40:17 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)

8.011min 1.196 ppb

response 21767

Manual Integration:

Before

11/19/20

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

7.837min 1.046 ppb

response 44236

(+) = Expected Retention Time

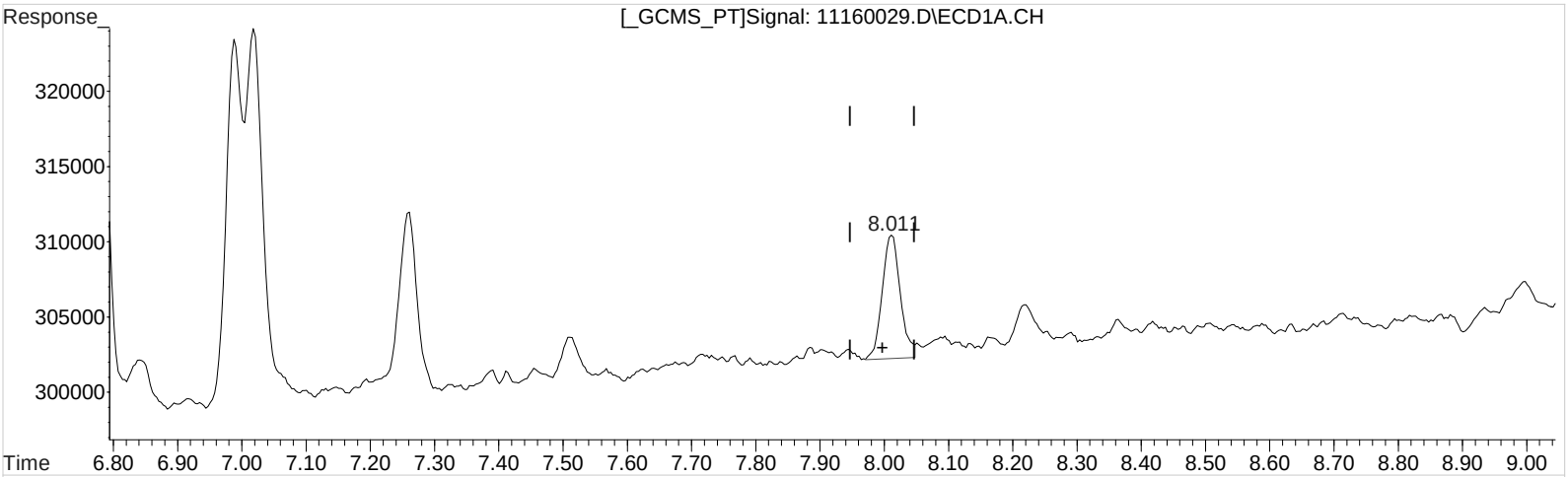
Quantitation Report (Qedit)

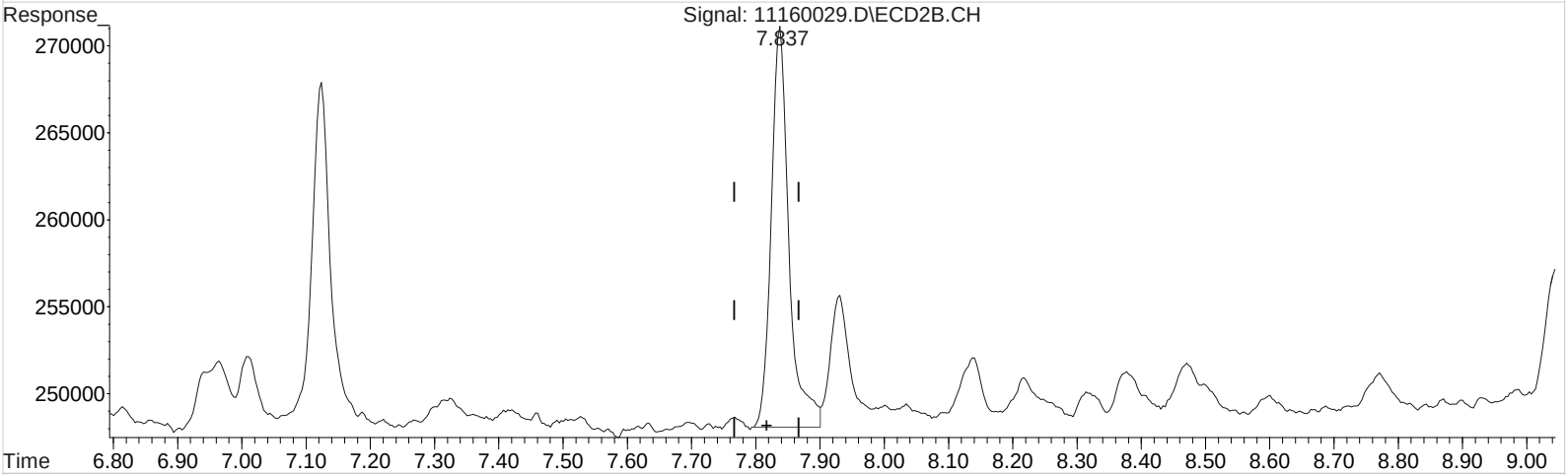
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160029.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:10 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 19 14:40:17 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)

8.011min 0.889 ppb m

response 16178

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

7.837min 1.046 ppb

response 44236

(+) = Expected Retention Time

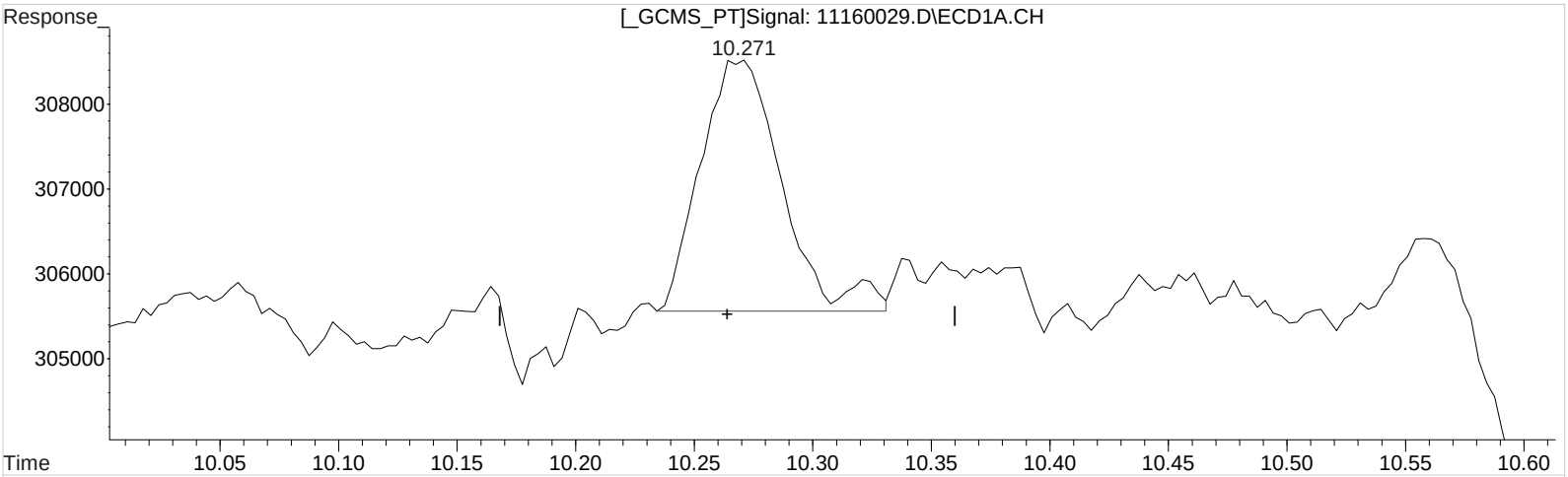
Quantitation Report (Qedit)

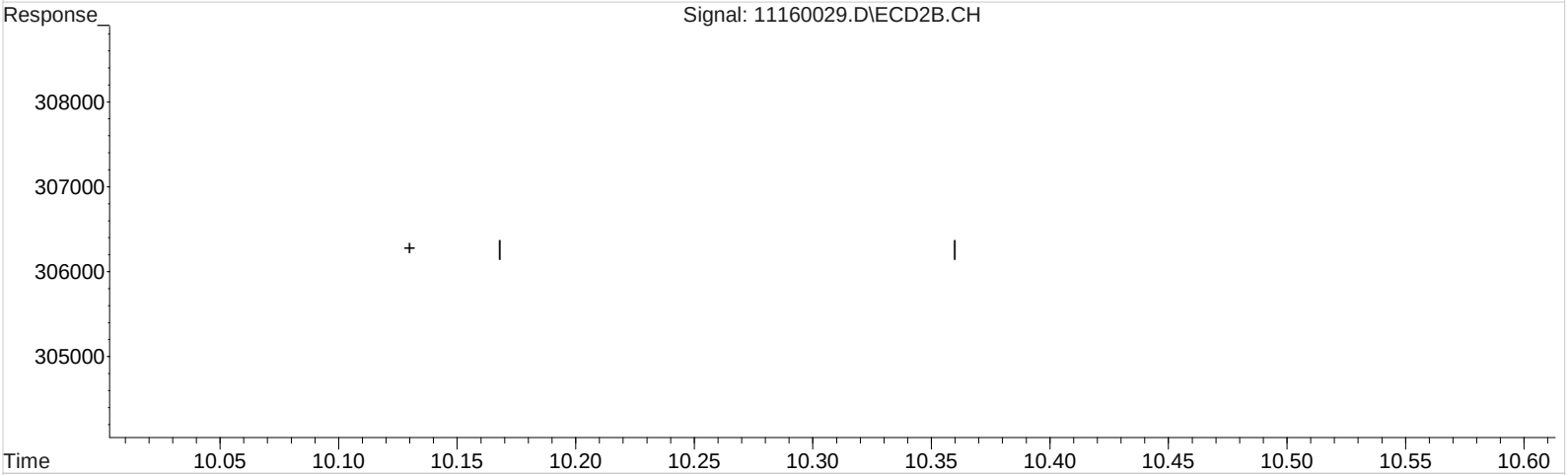
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160029.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:10 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 19 14:40:17 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 0.075 ppb

response 7031

Manual Integration:

Before

11/19/20

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

10.141min 0.091 ppb

response 18405

(+) = Expected Retention Time

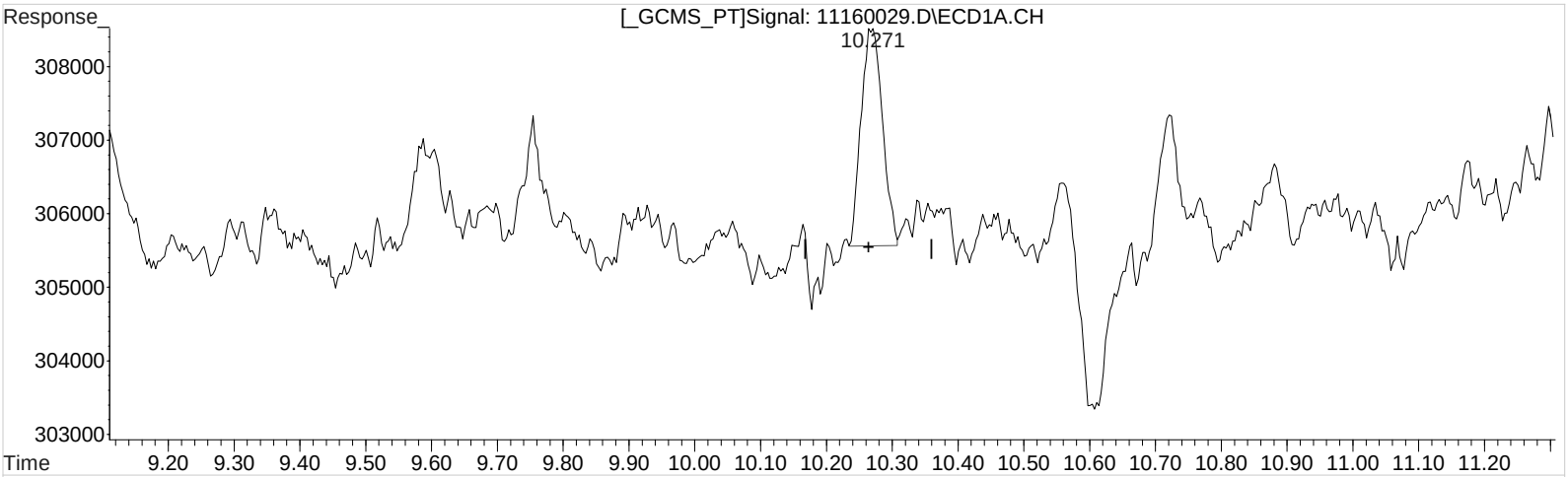
Quantitation Report (Qedit)

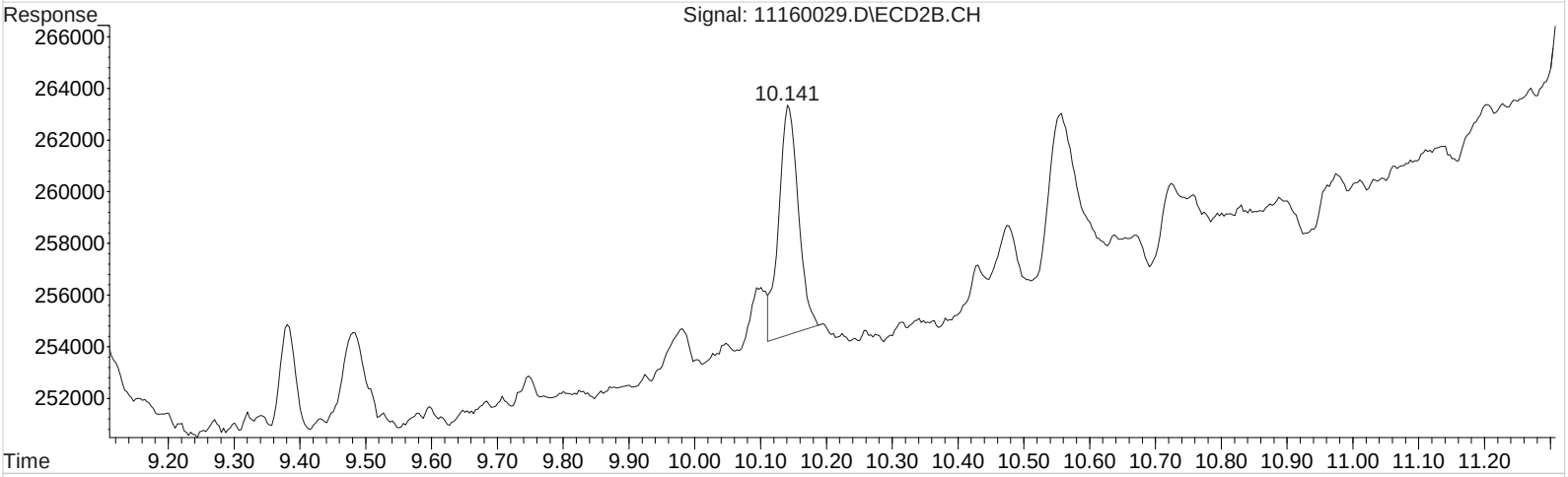
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160029.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 4:10 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 19 14:40:17 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 0.071 ppb m

response 6684

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

10.141min 0.091 ppb

response 18405

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160038.D\
Lab ID: KQ2018353-08
RunType: CCB
Matrix: Sediment

Date Acquired: 11/17/20 07:36:00
Batch ID: 703644
Analysis Method: 8151A/HERB

Validations

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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	30		20	CCV+ND
	2,4-D	23		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	31		20	
	2,4-D	23		20	

Primary Review: _____

Secondary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160038.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 07:36:00	**Vial:**	8
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2018353-08	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**		**Report Group:**	KQ2018353
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	8.00 +0.02	7.82 +0.01	14556	48066	0.800	1.136				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	10.25	10.12	6092	21862	0.065	0.108 CCV	0.11U	0.18U	2.4 U	Y
2,4-D	9.32 +0.01	9.03 -0.02	2642	54859	0.124	1.071 CCV	0.21U	1.8U	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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160038.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:36 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: Nov 19 15:04:44 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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.998	7.821	14556	48066	0.800	1.136	#
		Target Compounds							
1)	m	Dalapon	0.000	2.901f	0	43482	N.D. d	0.900	
3)	m	Dicamba	8.205	7.914	6045	12322	0.087	0.083	
4)	m	MCPP	8.348	8.121	2841	7025	569.913	N.D.	#
5)	m	MCPA	8.538	8.358	1243	7302	21.229	N.D.	#
6)	m	Dichloroprop	8.965	8.751	2645	5314	0.142	0.127	
7)	m	2,4-D	9.325	9.031	2642	54859	0.124	1.071	#
8)	m	2,4,5-TP ...	10.251	10.121	6092	21862	0.065m	0.108	#
9)	m	2,4,5-T	10.695	10.531	5048	24642	0.061	0.129	#
10)	m	2,4-DB	11.271	11.174	2529	3348	0.247	0.115	#
11)	m	Dinoseb	11.668	11.304	4199	23969	0.068	0.175	#

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

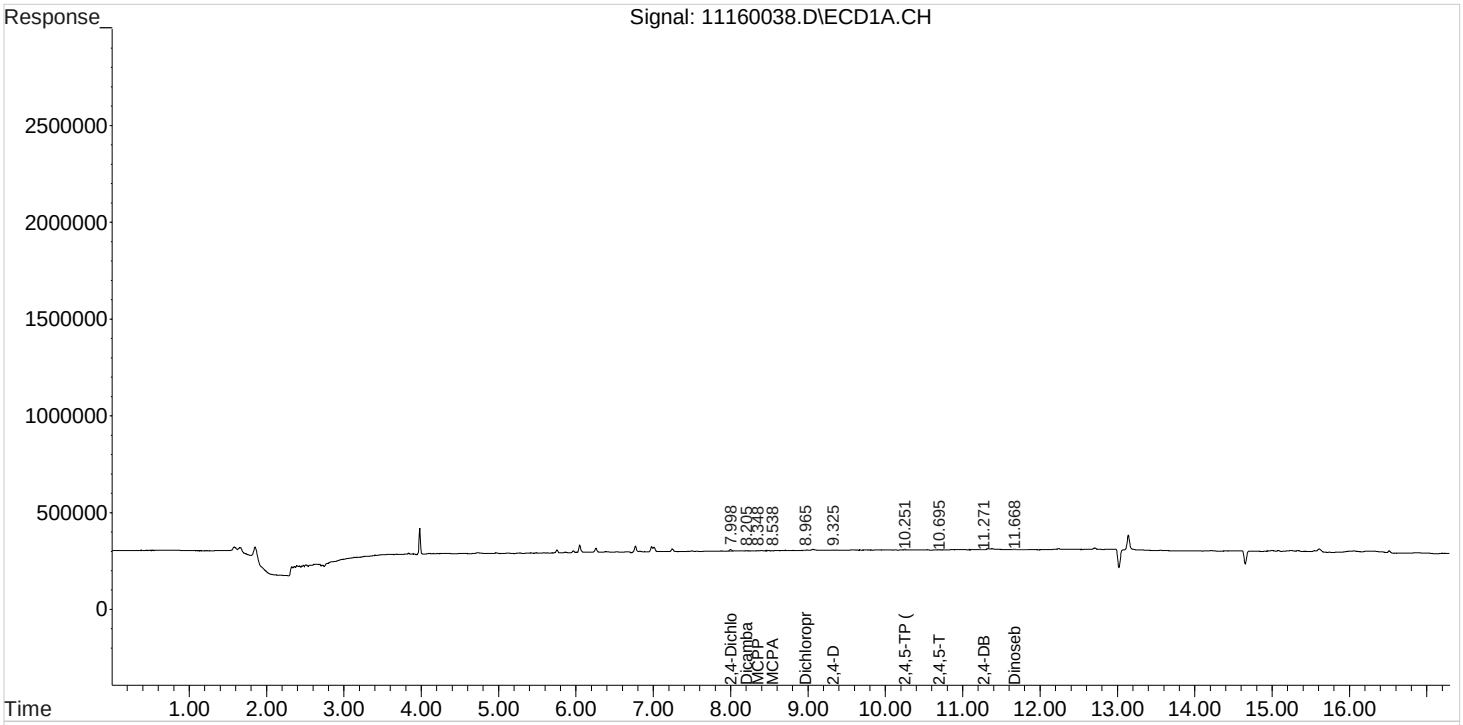
Quantitation Report (QT Reviewed)

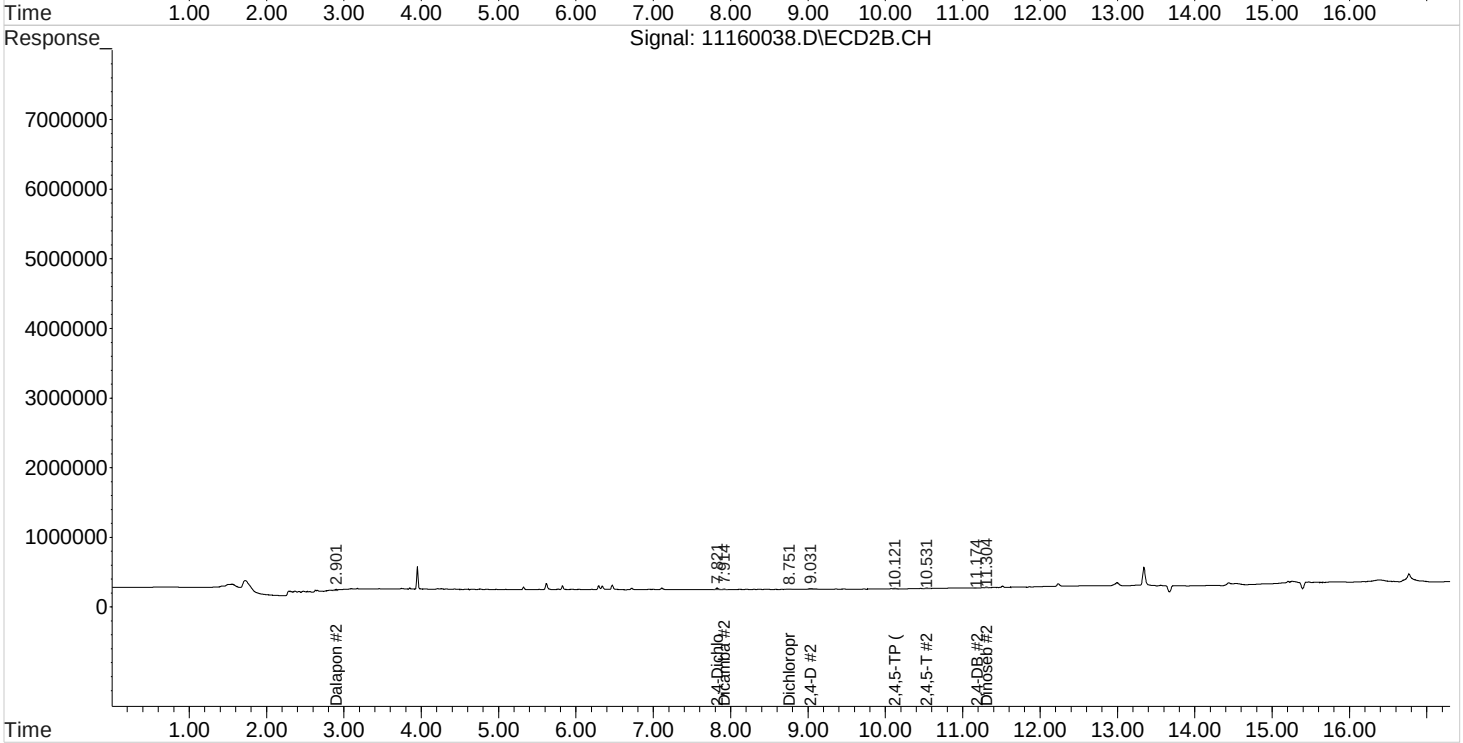
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160038.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:36 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: Nov 19 15:04:44 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





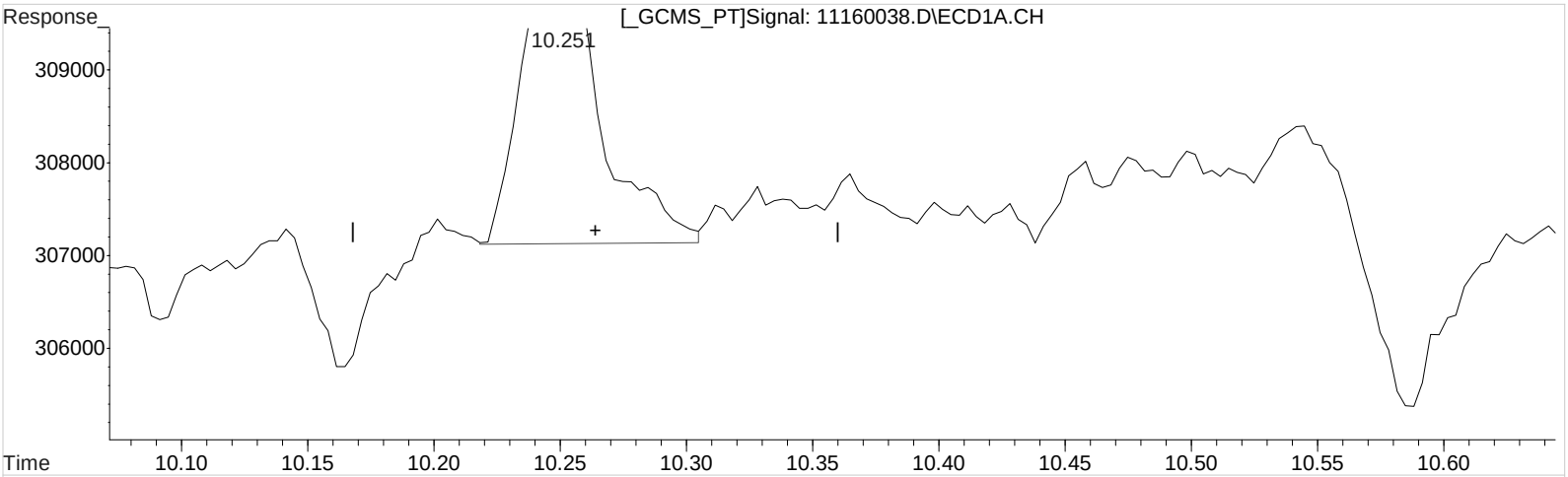
Quantitation Report (Qedit)

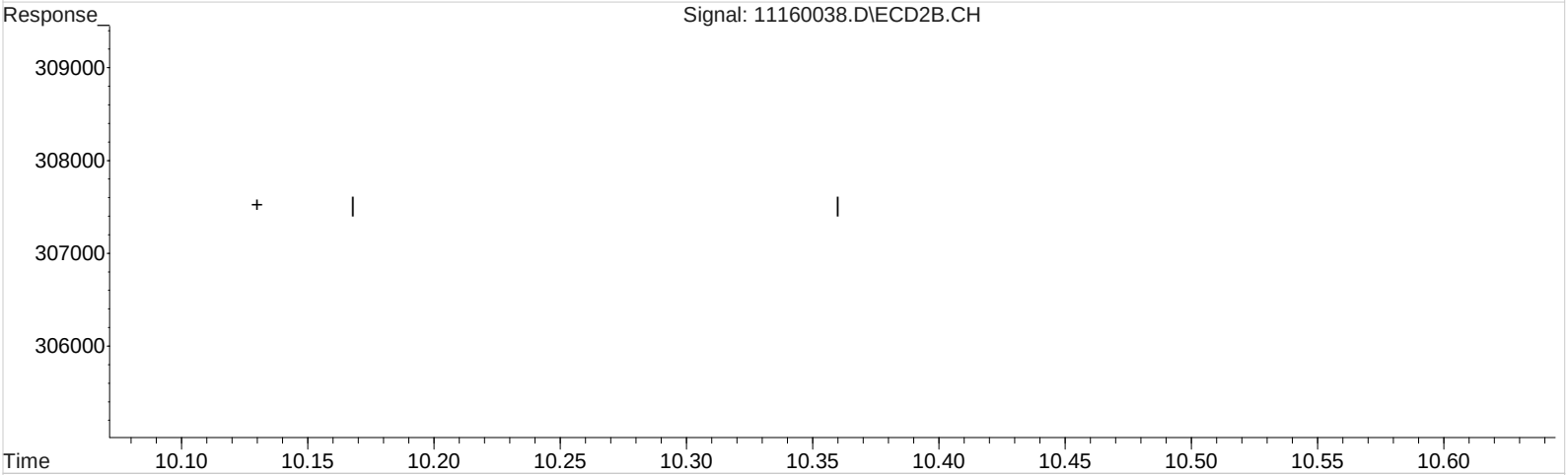
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160038.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:36 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: Nov 19 15:04:13 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





QEdit

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

10.251min 0.074 ppb

response 6930

Manual Integration:

Before

11/19/20

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

10.121min 0.108 ppb

response 21862

(+) = Expected Retention Time

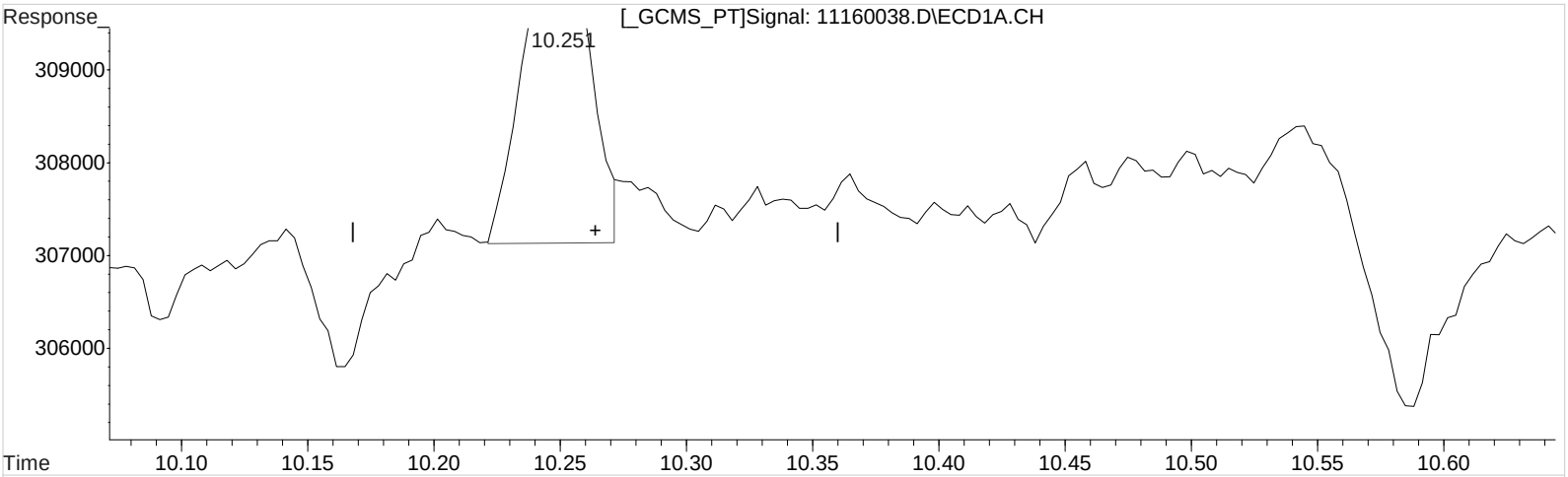
Quantitation Report (Qedit)

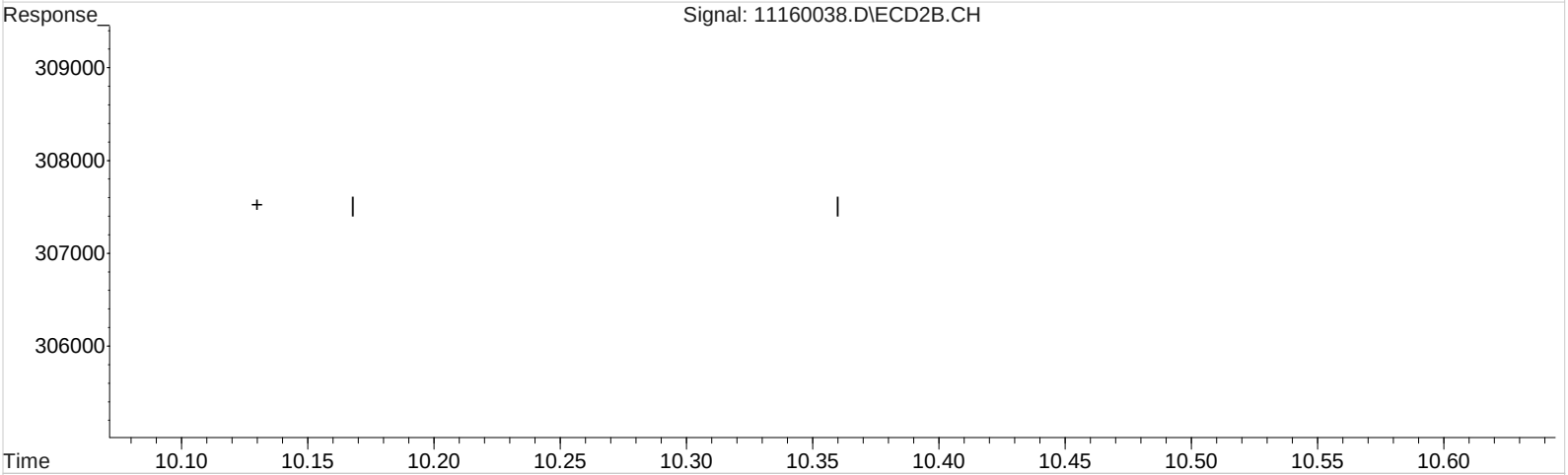
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160038.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:36 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: Nov 19 15:04:13 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





QEdit

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

10.251min 0.065 ppb m

response 6092

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

10.121min 0.108 ppb

response 21862

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160046.D\
Lab ID: KQ2018353-10
RunType: CCB
Matrix: Sediment

Date Acquired: 11/17/20 10:39:00
Batch ID: 703644
Analysis Method: 8151A/HERB

Validations

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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	31		20	CCV+ND
	2,4-D	23		20	CCV+ND

Primary Review: _____

Printed: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160046.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 10:39:00	**Vial:**	10
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2018353-10	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**		**Report Group:**	KQ2018353
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	8.00 +0.02	7.82 +0.01	16024	51751	0.881	1.223				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	10.25	10.12	8816	26131	0.094	0.129 CCV	0.16U	0.22U	2.4 U	Y
2,4-D	0.00	9.03 -0.02	0	63134	0.000	1.233 CCV	0U	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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160046.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 10:39 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 19 15:17:59 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 17:31:59 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	7.825	16024	51751	0.881	1.223	#
	Target Compounds							
1) m	Dalapon	3.132	2.901f	10397	48039	0.429	0.994	#
3) m	Dicamba	0.000	7.918	0	13927	N.D. d	0.094	
4) m	MCPP	8.342	8.125	2212	7705	556.377	N.D.	#
5) m	MCPA	0.000	8.361	0	7828	N.D. d	N.D.	
6) m	Dichloroprop	0.000	8.751	0	6189	N.D. d	0.148	
7) m	2,4-D	0.000	9.031	0	63134	N.D. d	1.233	
8) m	2,4,5-TP ...	10.252	10.125	8816	26131	0.094	0.129	#
9) m	2,4,5-T	10.698	10.538	5642	28656	0.068m	0.150	#
10) m	2,4-DB	11.272	11.175	1542	3855	0.150	0.133	
11) m	Dinoseb	11.668	11.308	9146	25393	0.148	0.186	#

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

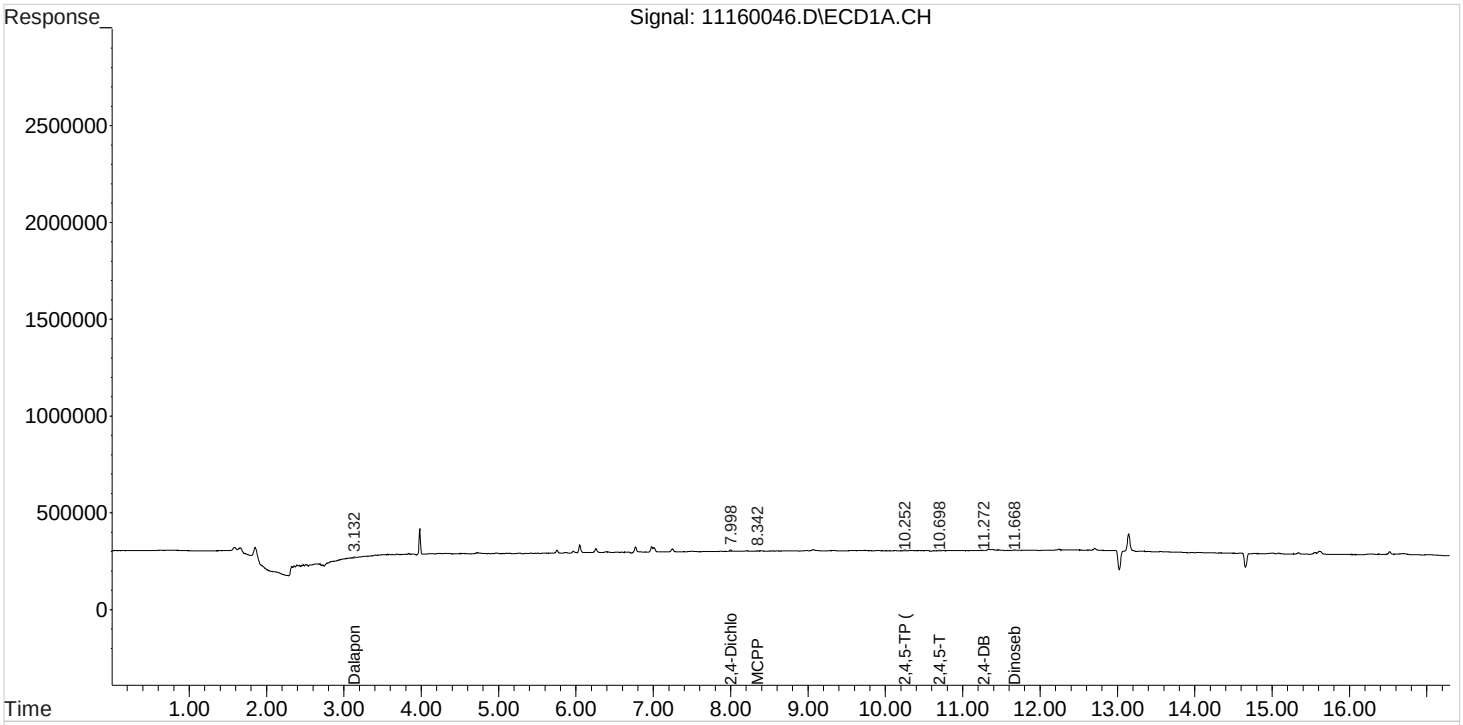
Quantitation Report (QT Reviewed)

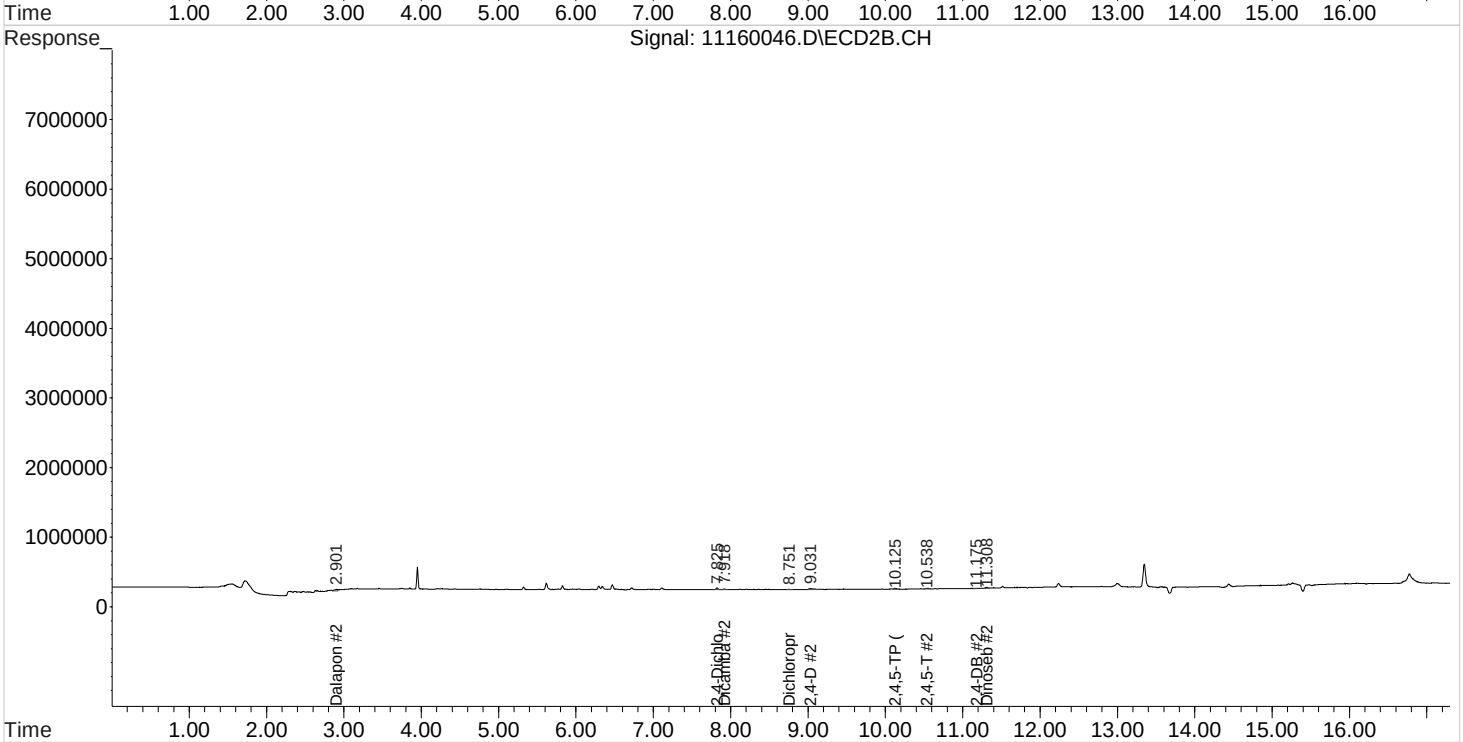
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160046.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 10:39 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 19 15:17:59 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 17:31:59 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





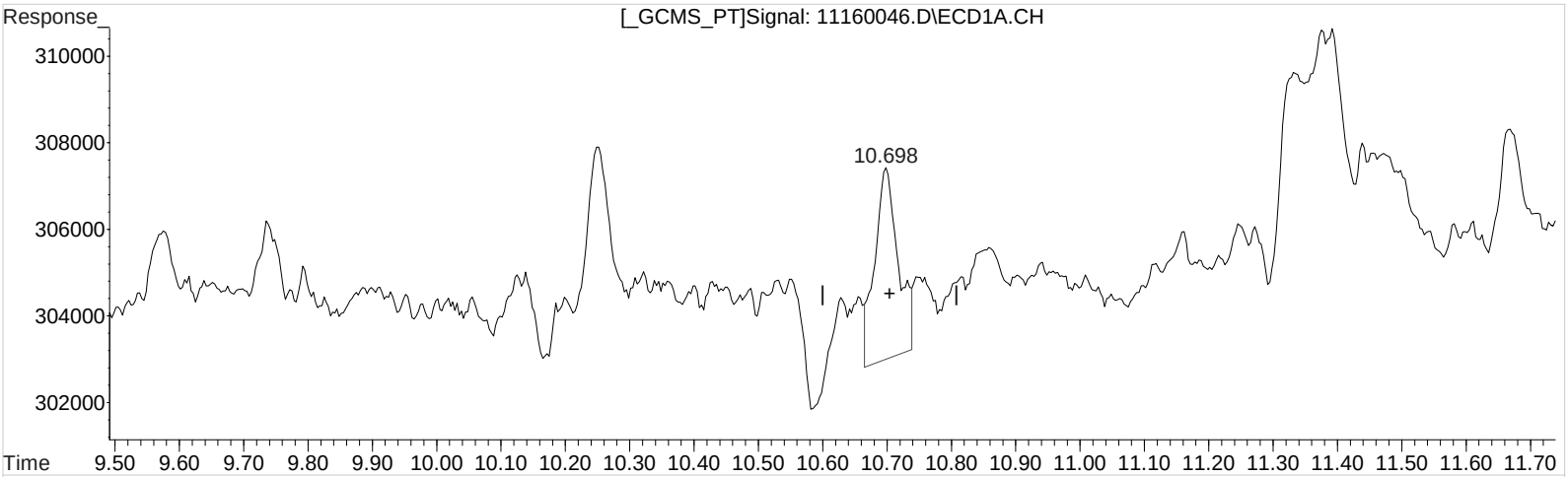
Quantitation Report (Qedit)

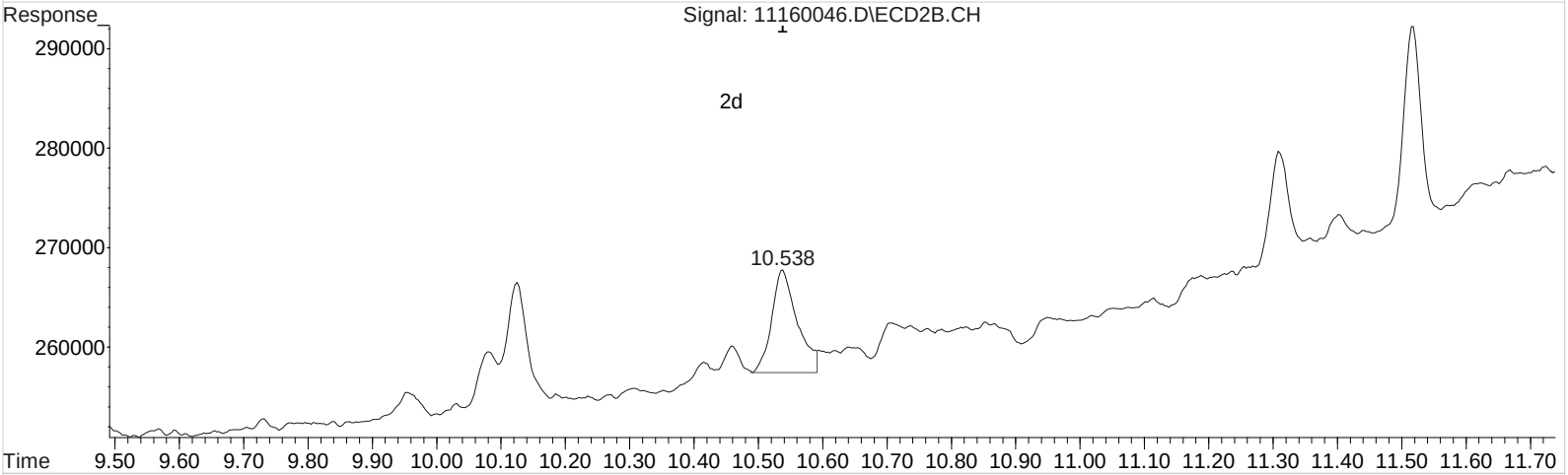
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160046.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 10:39 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 19 15:16:31 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 17:31:59 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

(9) 2,4,5-T (m)

10.698min 0.136 ppb

response 11230

Manual Integration:

Before

11/19/20

(9) 2,4,5-T #2 (m)

10.538min 0.150 ppb

response 28656

(+) = Expected Retention Time

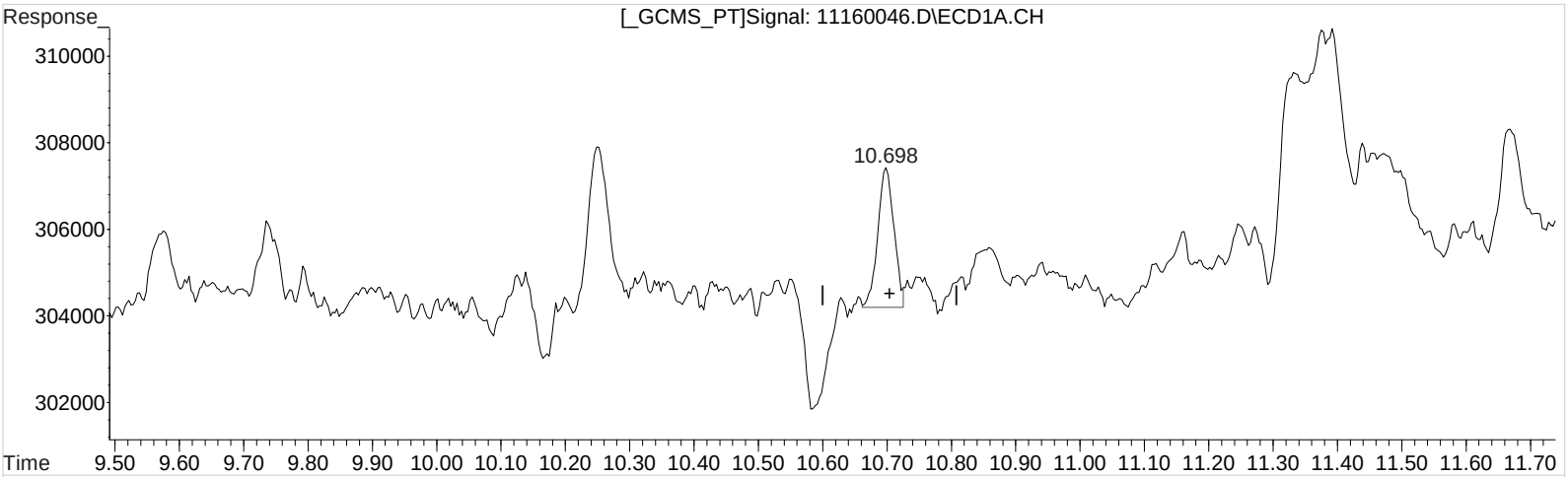
Quantitation Report (Qedit)

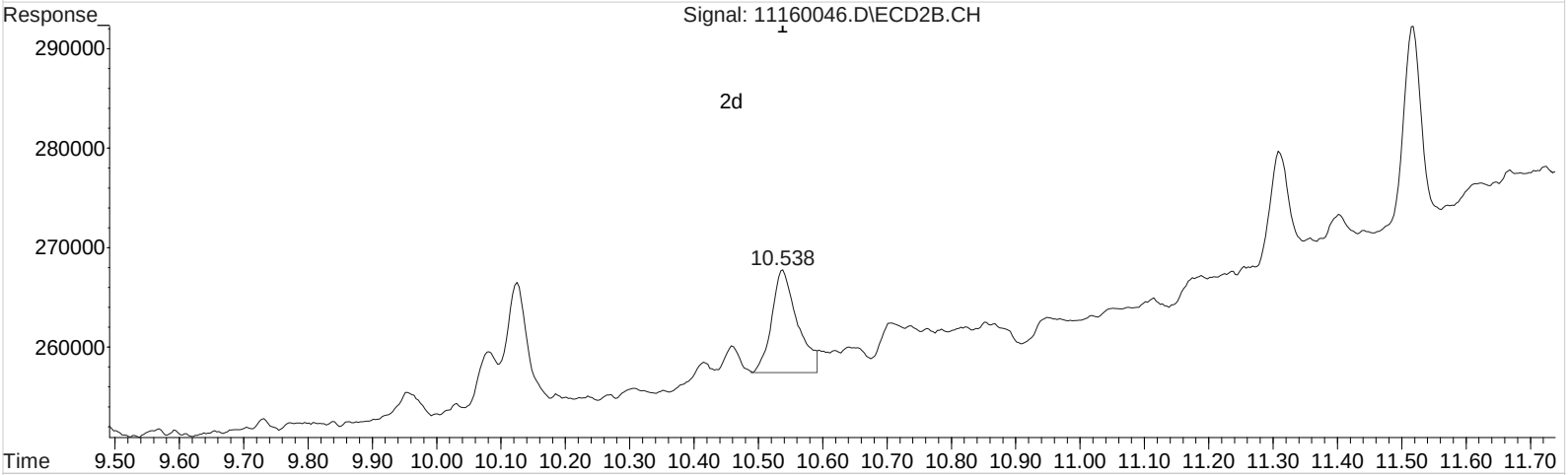
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160046.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 10:39 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 19 15:16:31 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 17:31:59 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

(9) 2,4,5-T (m)

10.698min 0.068 ppb m

response 5642

Manual Integration:

After

Baseline/Shoulder

11/19/20

(9) 2,4,5-T #2 (m)

10.538min 0.150 ppb

response 28656

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160003.D\
Lab ID: KQ2018353-01
RunType: CCV
Matrix: Sediment

Date Acquired: 11/16/20 18:00:00
Batch ID: 703644
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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160003.D\	**Instrument:**	K-GC-24
Acqu Date:	11/16/20 18:00:00	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2018353-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**		**Report Group:**	KQ2018353
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	7.98	7.81	1768916	4385531	97.211	103.682			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	10.25	10.12	9344810	24379191	99.751	120.096	99.8	120	Y
2,4-D	9.31	9.05	2110861	5662120	99.381	110.591	99.4	111	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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160003.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 6:00 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: Nov 19 14:01:56 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 17:31:59 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...	7.983	7.809	1768916	4385531	97.211	103.682
	Target Compounds						
1) m	Dalapon	3.123	2.876	2345316	4819074	96.680m	99.748m
3) m	Dicamba	8.203	7.913	6895825	16300087	98.794	109.978
4) m	MCPP	8.290	8.099	434386	1967251	9856.404	12177.673
5) m	MCPA	8.550	8.346	614786	2686345	10499.735	12319.194
6) m	Dichloroprop	8.953	8.746	1885613	4670111	101.117	111.953
7) m	2,4-D	9.310	9.053	2110861	5662120	99.381	110.591
8) m	2,4,5-TP ...	10.246	10.123	9344810	24379191	99.751	120.096
9) m	2,4,5-T	10.693	10.526	7552778	21470218	91.538	112.194
10) m	2,4-DB	11.273	11.159	874040	2974003	85.194	102.496
11) m	Dinoseb	11.670	11.306	5793200	15862830	93.641	115.993

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

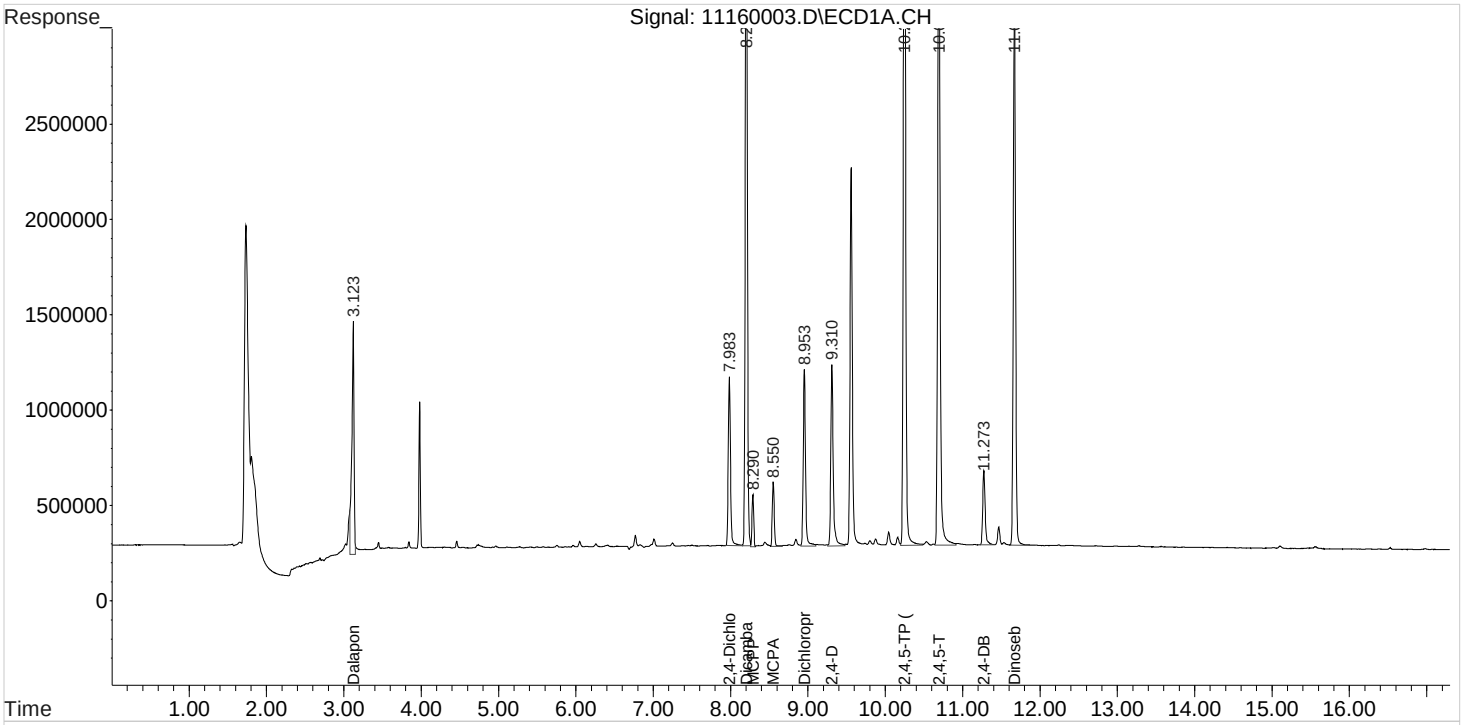
Quantitation Report (QT Reviewed)

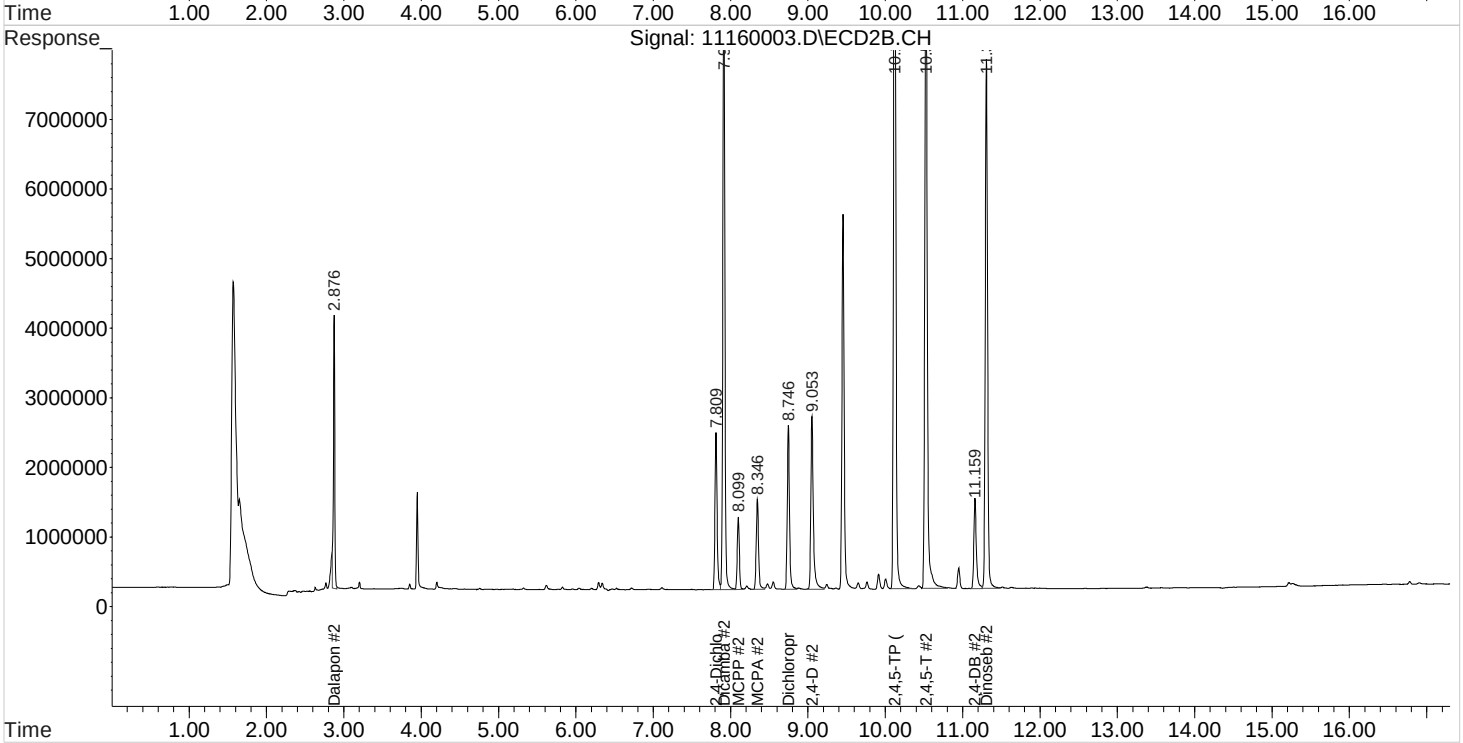
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160003.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 6:00 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: Nov 19 14:01:56 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 17:31:59 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





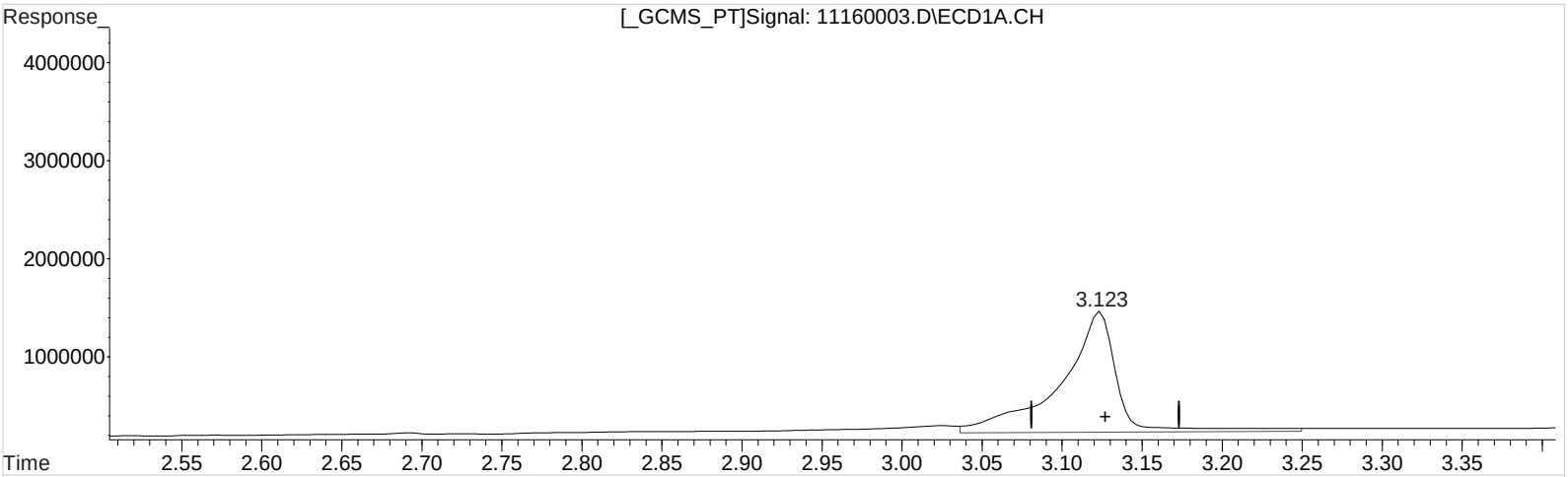
Quantitation Report (Qedit)

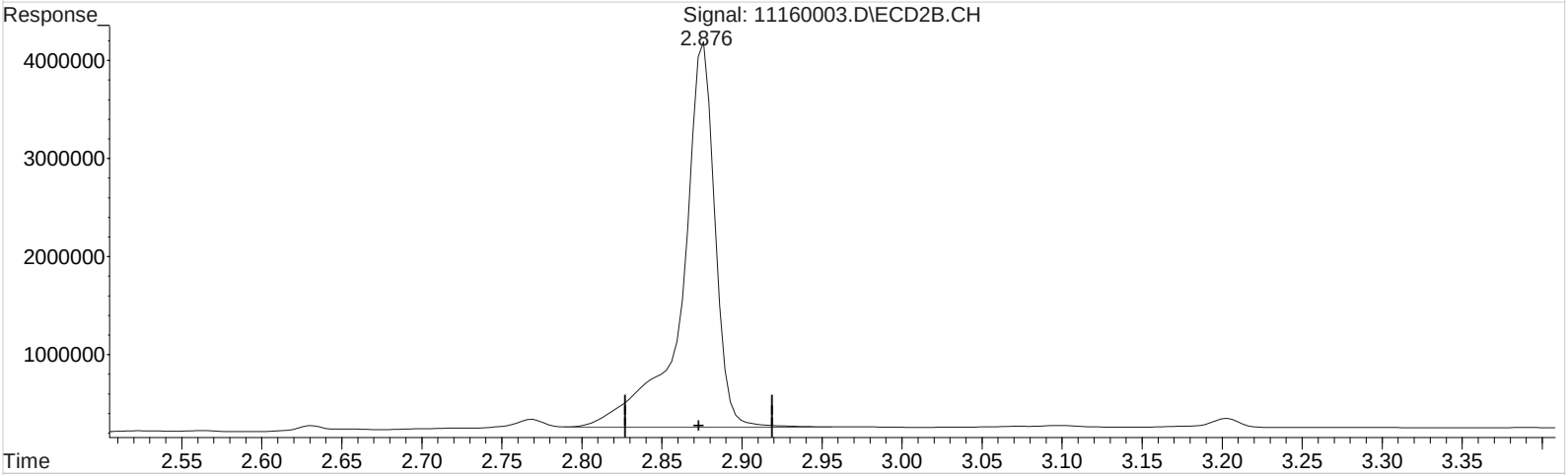
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160003.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 6:00 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: Nov 16 17:42:43 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





QEdit

(1) Dalapon (m)

3.123min 125.409 ppb

response 3042233

(1) Dalapon #2 (m)

2.876min 116.670 ppb

response 5636667

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

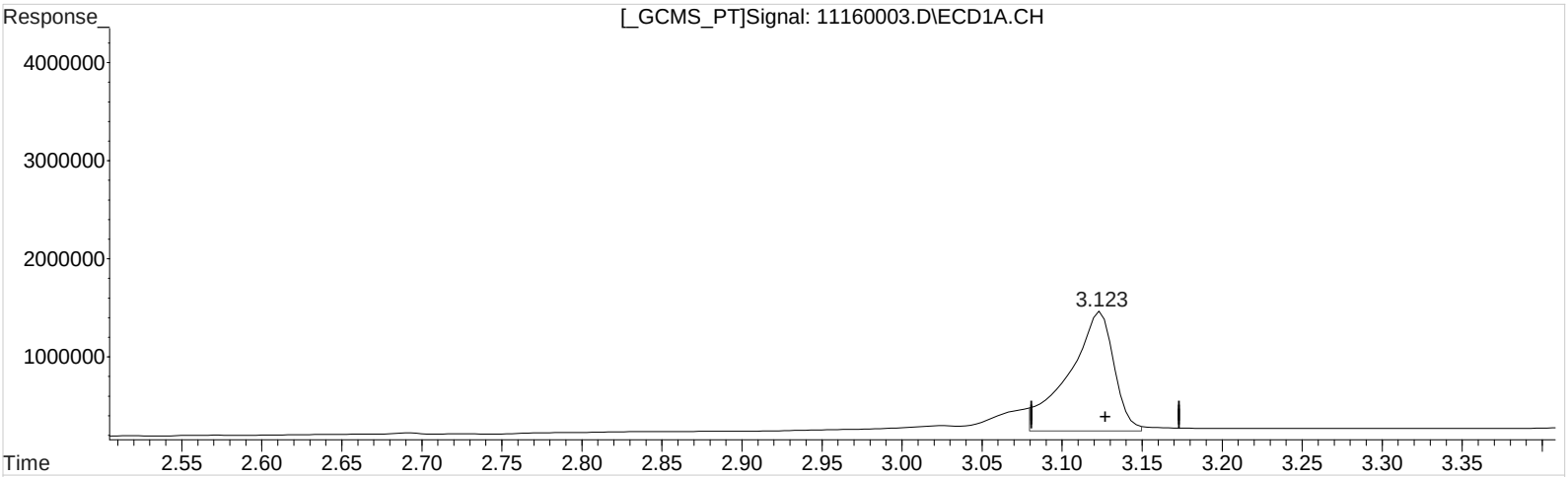
Quantitation Report (Qedit)

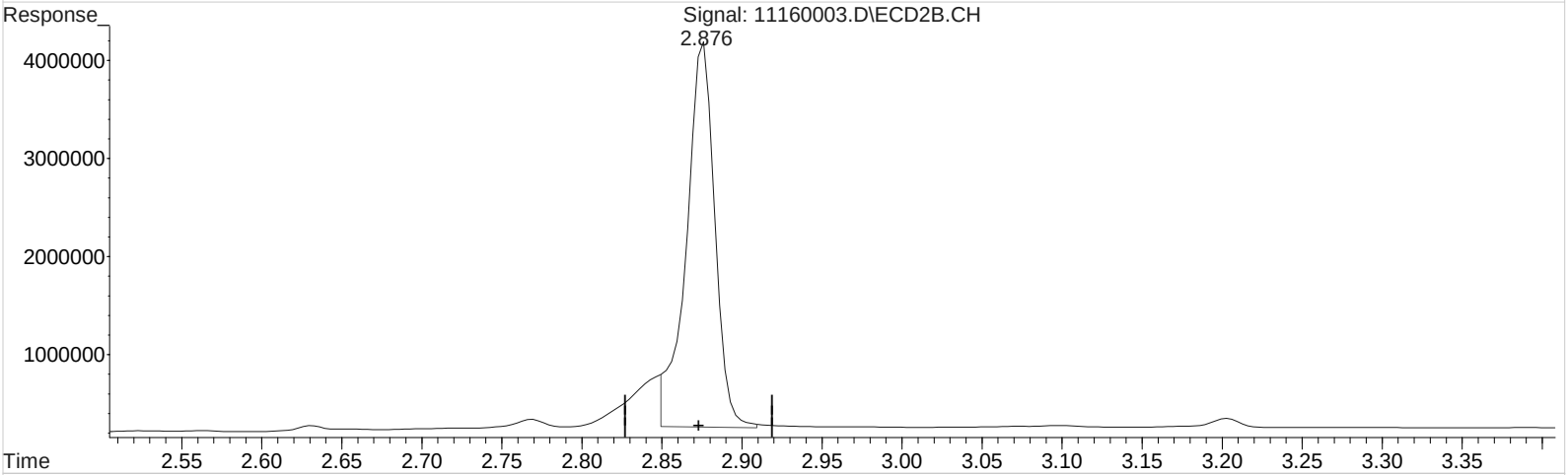
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160003.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 6:00 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: Nov 16 17:42:43 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





QEdit

(1) Dalapon (m)

3.123min 96.680 ppb m

response 2345316

(1) Dalapon #2 (m)

2.876min 99.748 ppb m

response 4819074

Manual Integration:

After

Baseline/Shoulder

11/19/20

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160016.D\
Lab ID: KQ2018353-03
RunType: CCV
Matrix: Sediment

Date Acquired: 11/16/20 23:13:00
Batch ID: 703644
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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160016.D\	**Instrument:**	K-GC-24
Acqu Date:	11/16/20 23:13:00	**Vial:**	3
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2018353-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**		**Report Group:**	KQ2018353
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	7.98	7.81	1808102	4410039	99.365	104.261			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	10.24	10.12	9565304	24535974	102.105	120.868	102	121	Y
2,4-D	9.30	9.05	2205988	5690041	103.859	111.137	104	111	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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160016.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 11:13 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: Nov 19 14:14:46 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...	7.980	7.807	1808102	4410039	99.365	104.261
	Target Compounds						
1) m	Dalapon	3.120	2.873	2387447	4920025	98.417m	101.837m
3) m	Dicamba	8.200	7.910	7150968	16428650	102.450	110.845
4) m	MCPP	8.284	8.100	433657	1934613	9840.717	11952.099
5) m	MCPA	8.550	8.347	606319	2662407	10355.130	12192.676
6) m	Dichloroprop	8.950	8.743	1916525	4709709	102.775	112.902
7) m	2,4-D	9.304	9.050	2205988	5690041	103.859	111.137
8) m	2,4,5-TP ...	10.244	10.120	9565304	24535974	102.105	120.868
9) m	2,4,5-T	10.687	10.523	7726027	21368620	93.638	111.663
10) m	2,4-DB	11.270	11.157	1139525	3022939	111.071	104.182
11) m	Dinoseb	11.667	11.307	5995914	15963646	96.917	116.730

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

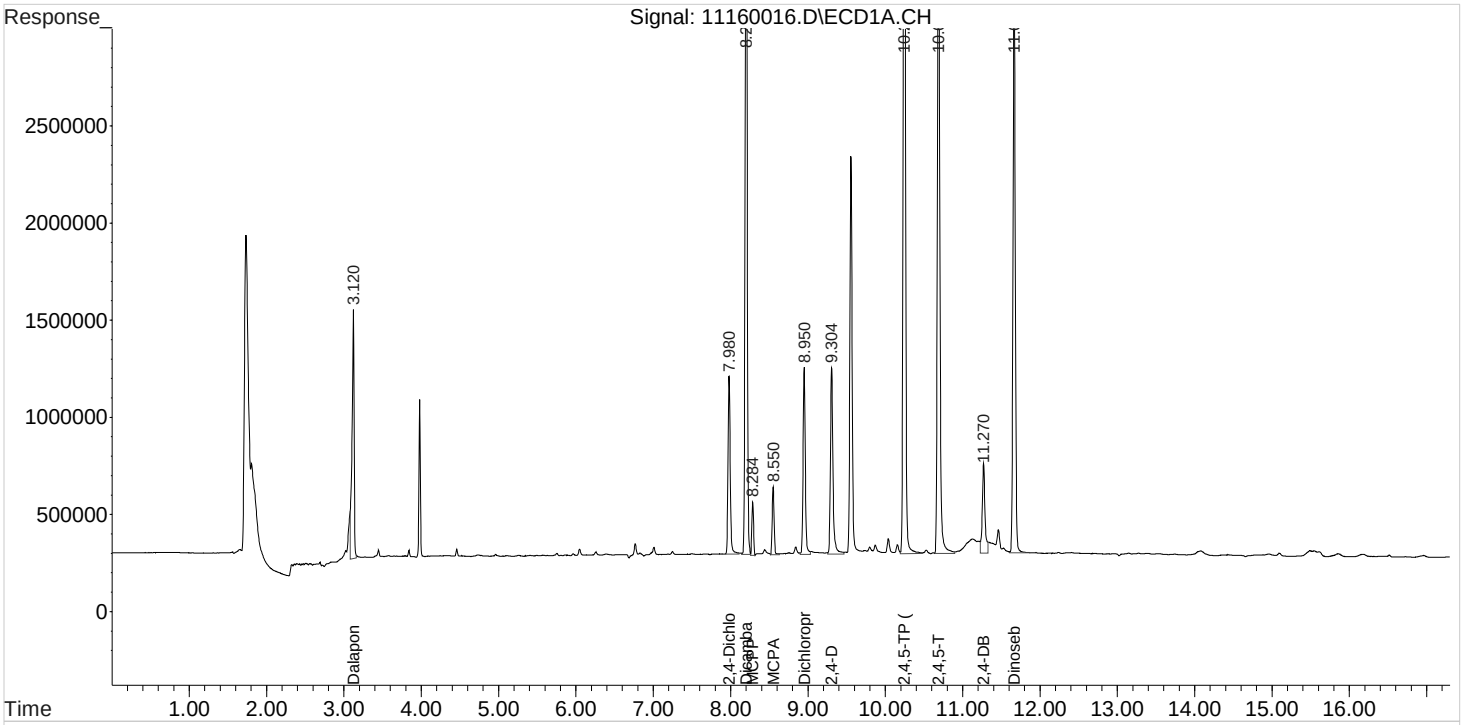
Quantitation Report (QT Reviewed)

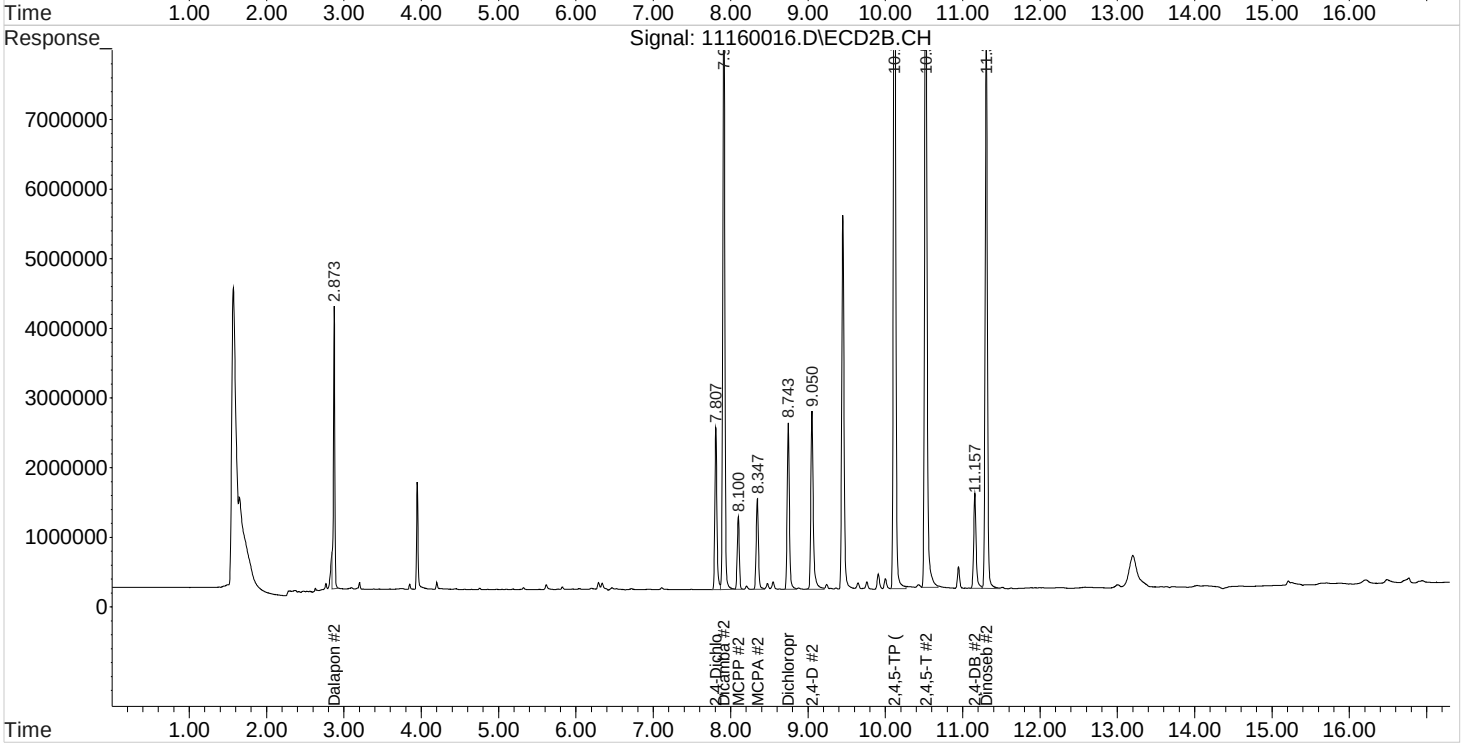
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160016.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 11:13 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: Nov 19 14:14:46 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





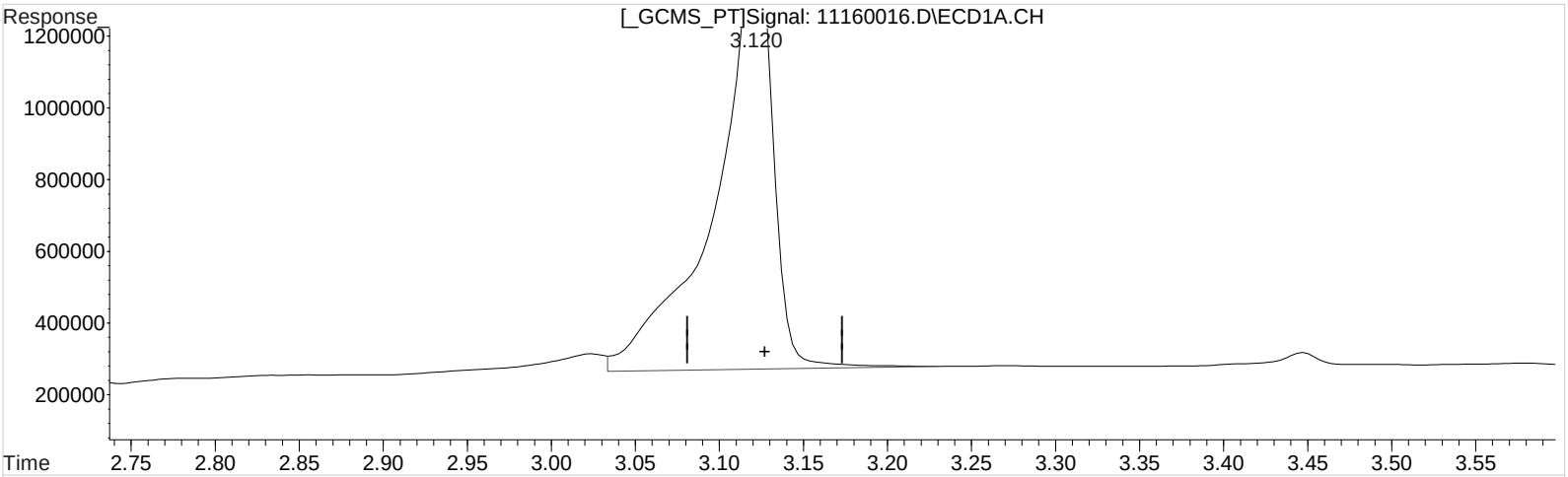
Quantitation Report (Qedit)

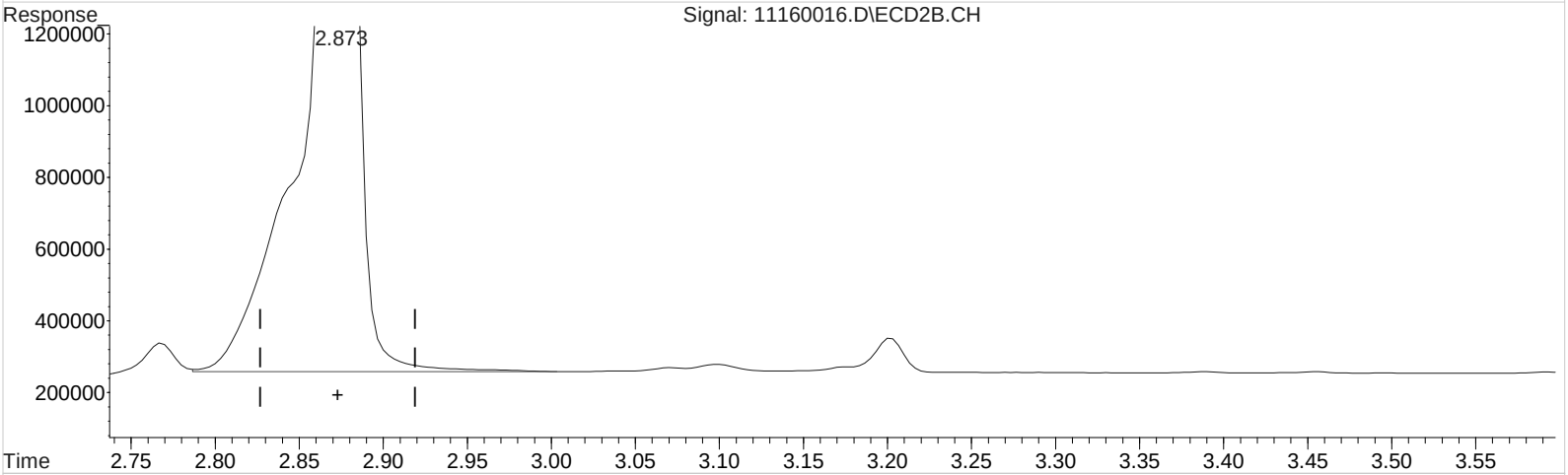
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160016.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 11:13 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: Nov 17 16:28:53 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 17:31:59 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)

3.120min 116.545 ppb

response 2827209

Manual Integration:

Before

11/19/20

(1) Dalapon #2 (m)

2.873min 118.972 ppb

response 5747870

(+) = Expected Retention Time

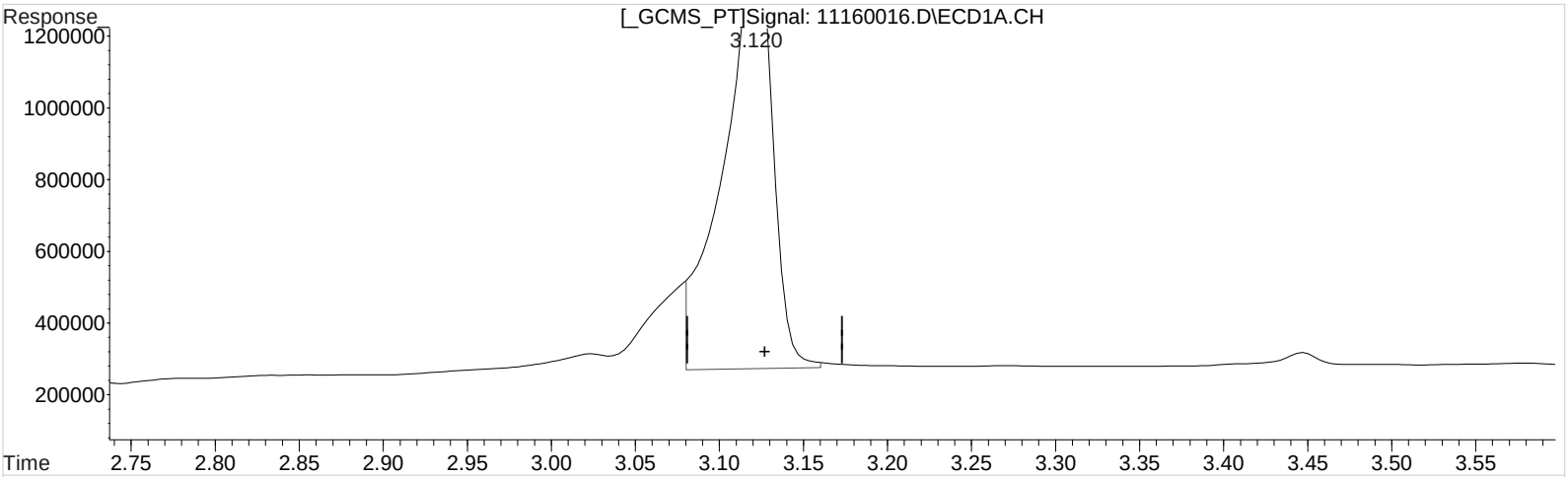
Quantitation Report (Qedit)

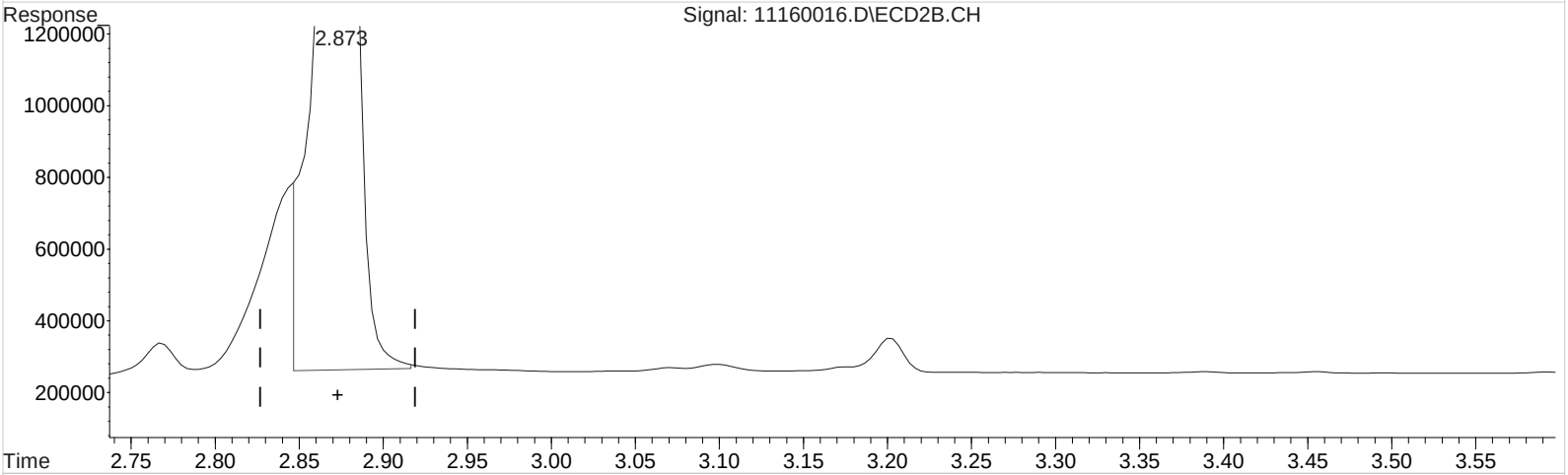
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160016.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Nov 2020 11:13 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: Nov 17 16:28:53 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 17:31:59 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)

3.120min 98.417 ppb m

response 2387447

Manual Integration:

After

Baseline/Shoulder

11/19/20

(1) Dalapon #2 (m)

2.873min 101.837 ppb m

response 4920025

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160028.D\
Lab ID: KQ2018353-05
RunType: CCV
Matrix: Sediment

Date Acquired: 11/17/20 03:47:00
Batch ID: 703644
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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160028.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 03:47:00	**Vial:**	5
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2018353-05	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**		**Report Group:**	KQ2018353
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	7.98	7.81	1874757	4552962	103.028	107.640			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	10.24	10.12	9905293	25294611	105.734	124.605	106	125	Y
2,4-D	9.30	9.05	2165273	5896937	101.943	115.178	102	115	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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160028.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:47 am 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: Nov 19 14:39:53 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 17:31:59 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...	7.982	7.808	1874757	4552962	103.028	107.640
	Target Compounds						
1) m	Dalapon	3.122	2.875	2272975	4819708	93.698m	99.761m
3) m	Dicamba	8.202	7.911	7337960	16877206	105.129	113.871
4) m	MCPP	8.285	8.098	438694	1987765	9949.109	12319.453
5) m	MCPA	8.548	8.345	606899	2709388	10365.035	12440.983
6) m	Dichloroprop	8.948	8.745	1914797	4846462	102.682	116.180
7) m	2,4-D	9.305	9.051	2165273	5896937	101.943	115.178
8) m	2,4,5-TP ...	10.245	10.121	9905293	25294611	105.734	124.605
9) m	2,4,5-T	10.688	10.525	8093103	22361346	98.087	116.851
10) m	2,4-DB	11.272	11.158	954777	3172893	93.064	109.350
11) m	Dinoseb	11.665	11.305	6118890	16340273	98.905	119.484

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

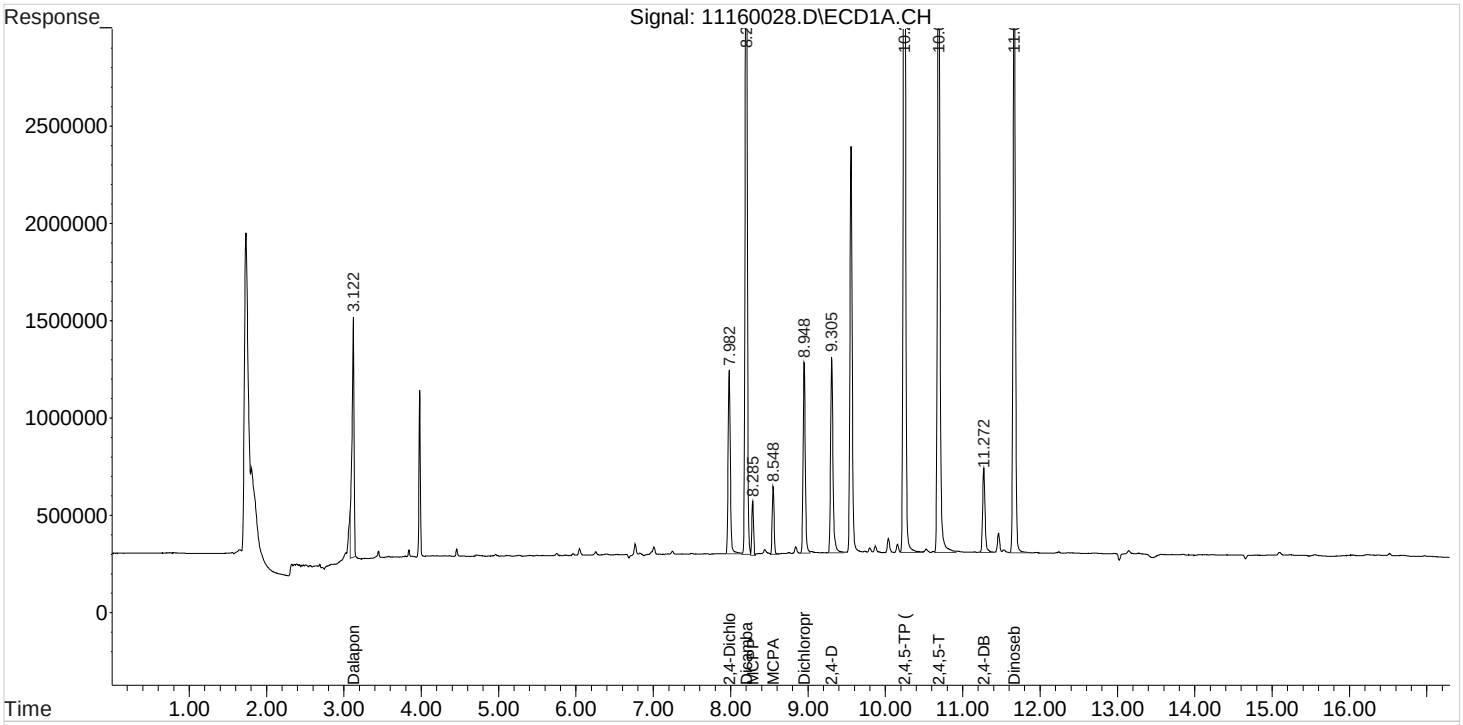
Quantitation Report (QT Reviewed)

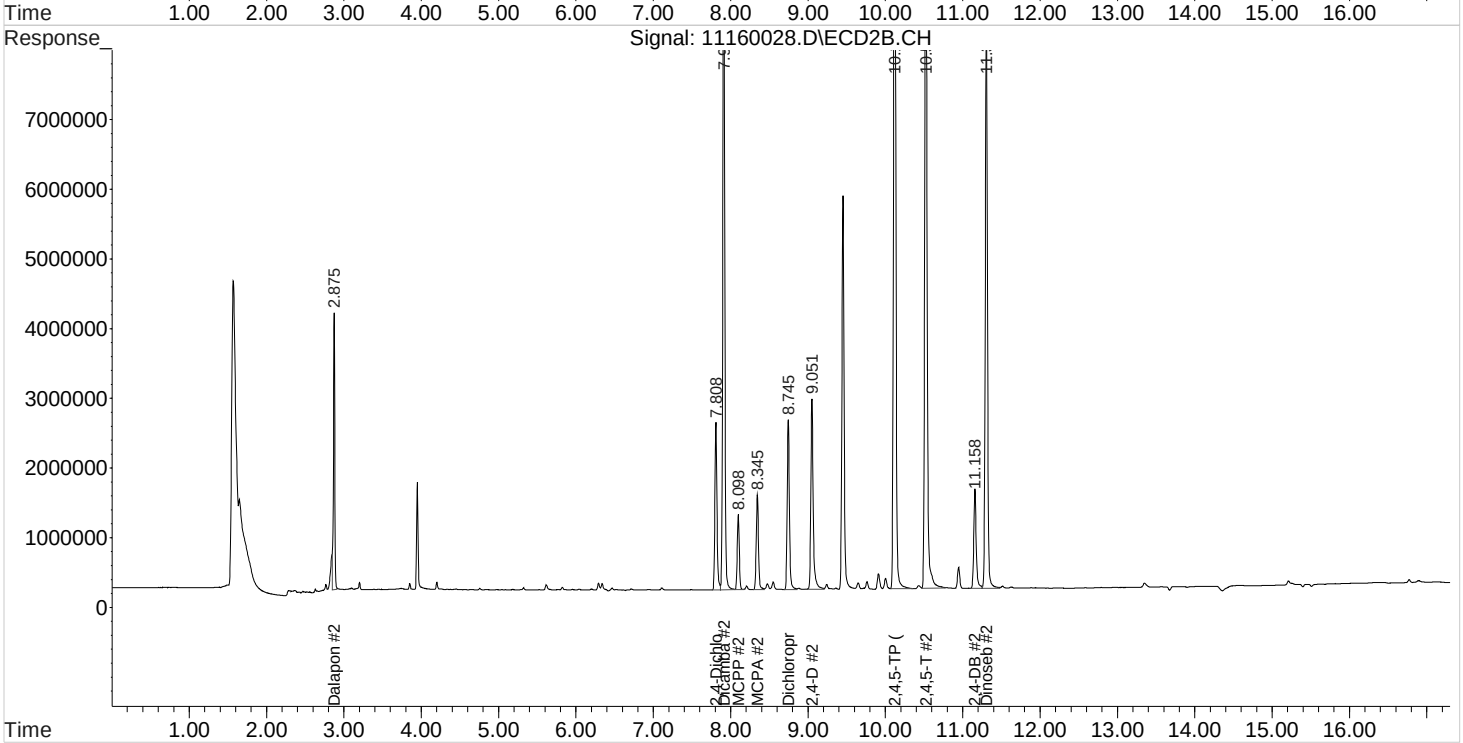
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160028.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:47 am 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: Nov 19 14:39:53 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 17:31:59 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





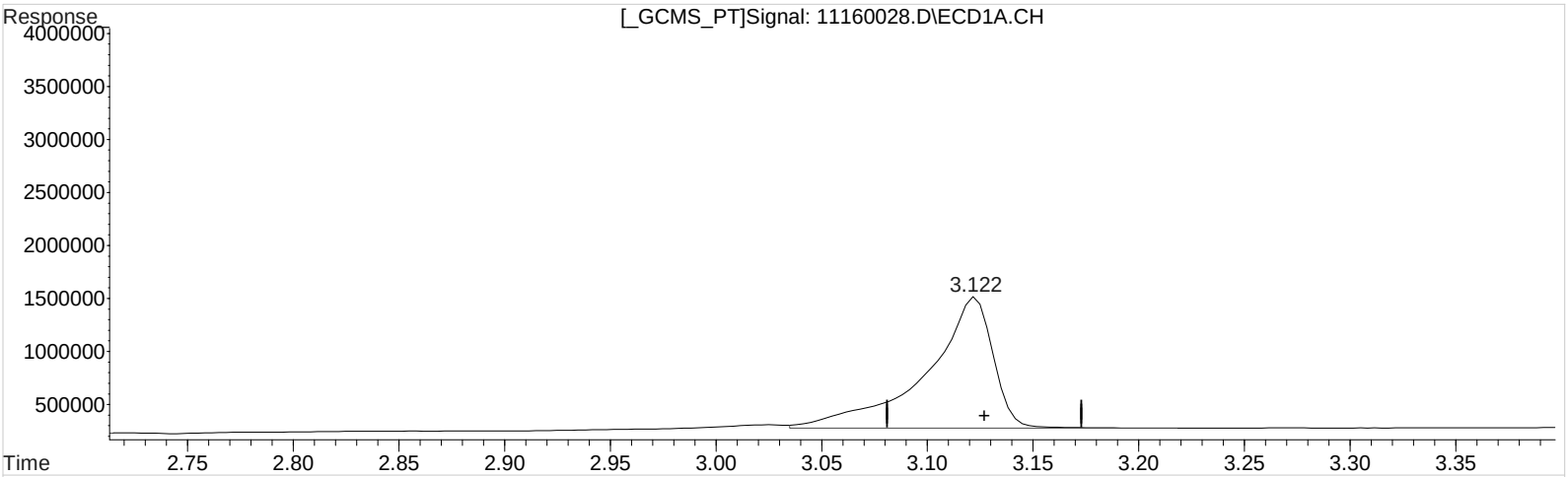
Quantitation Report (Qedit)

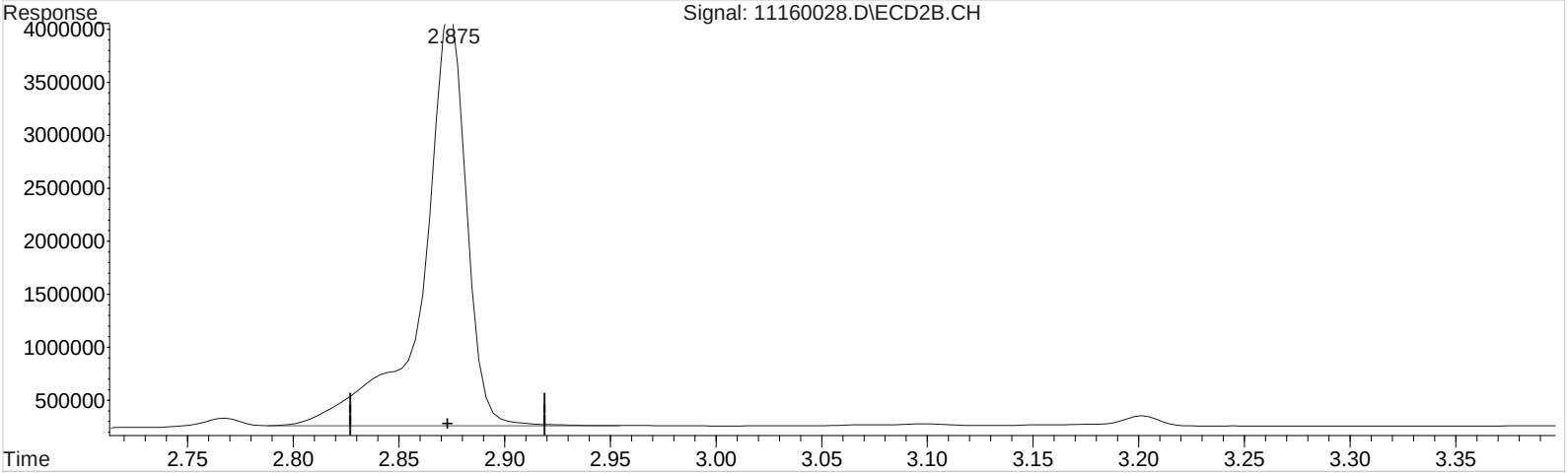
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160028.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:47 am 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: Nov 17 16:29:15 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 17:31:59 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)

3.122min 111.392 ppb

response 2702190

(1) Dalapon #2 (m)

2.875min 115.969 ppb

response 5602761

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

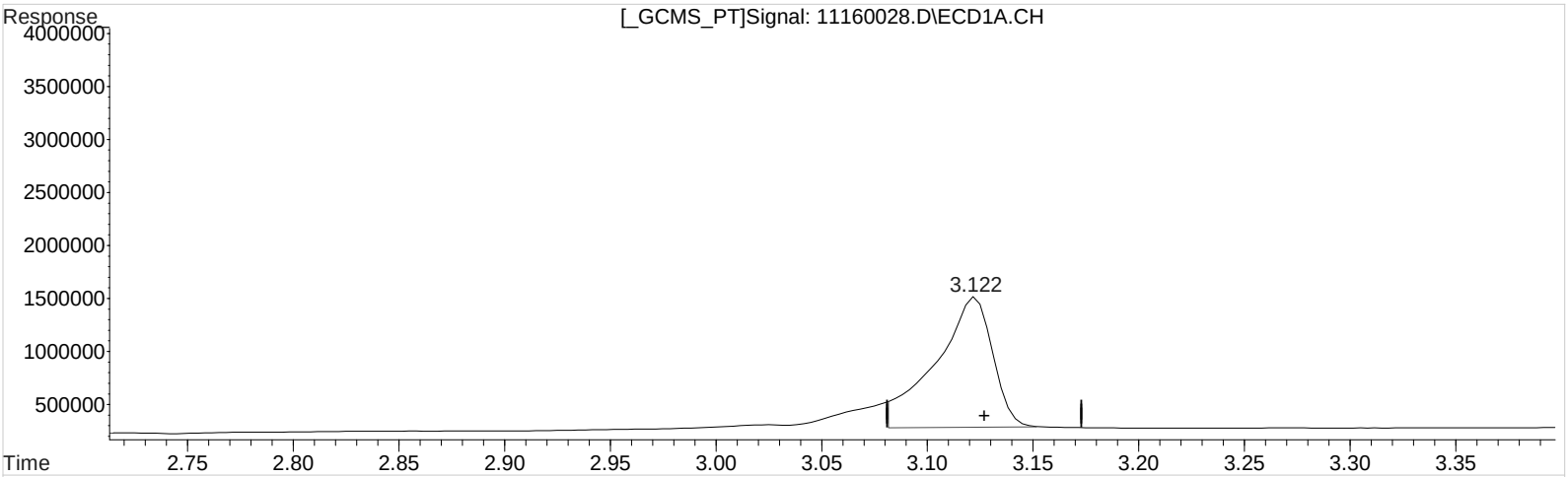
Quantitation Report (Qedit)

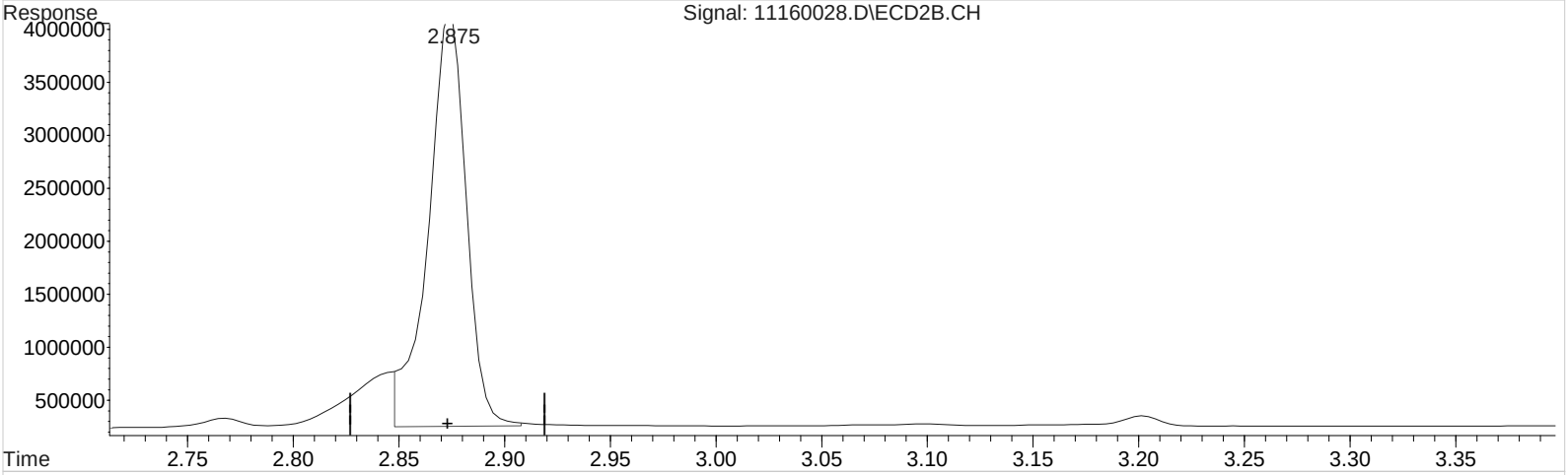
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160028.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 3:47 am 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: Nov 17 16:29:15 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 17:31:59 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)

3.122min 93.698 ppb m

response 2272975

(1) Dalapon #2 (m)

2.875min 99.761 ppb m

response 4819708

Manual Integration:

After

Baseline/Shoulder

11/19/20

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160037.D\
Lab ID: KQ2018353-07
RunType: CCV
Matrix: Sediment

Date Acquired: 11/17/20 07:13:00
Batch ID: 703644
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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160037.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 07:13:00	**Vial:**	7
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2018353-07	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**		**Report Group:**	KQ2018353
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	7.98	7.81	1863526	4574726	102.411	108.155			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	10.25	10.12	9741751	25145255	103.988	123.869	104	124	Y
2,4-D	9.31	9.05	2156239	5926077	101.517	115.747	102	116	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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160037.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:13 am 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: Nov 19 15:04:01 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...	7.982	7.808	1863526	4574726	102.411	108.155
	Target Compounds						
1) m	Dalapon	3.122	2.875	2347876	4779733	96.786m	98.933m
3) m	Dicamba	8.202	7.911	7327108	16862161	104.973	113.770
4) m	MCPP	8.288	8.101	431758	1992331	9799.852	12351.010 #
5) m	MCPA	8.552	8.348	610271	2712735	10422.625	12458.673
6) m	Dichloroprop	8.952	8.745	1912833	4844464	102.577	116.132
7) m	2,4-D	9.308	9.051	2156239	5926077	101.517	115.747
8) m	2,4,5-TP ...	10.245	10.121	9741751	25145255	103.988m	123.869m
9) m	2,4,5-T	10.688	10.525	8083100	22244637	97.966	116.241
10) m	2,4-DB	11.272	11.158	950620	3138612	92.658	108.169
11) m	Dinoseb	11.665	11.308	6103955	16249997	98.664	118.824

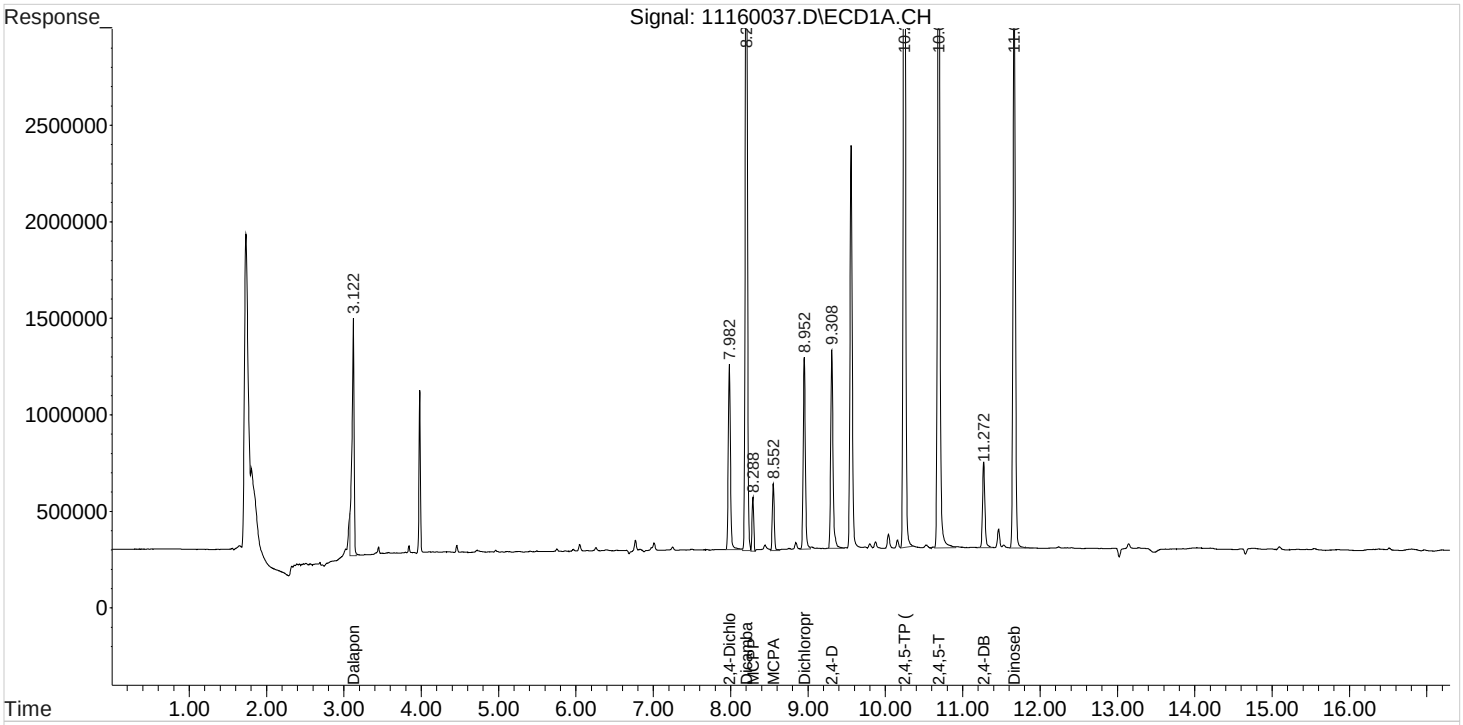
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

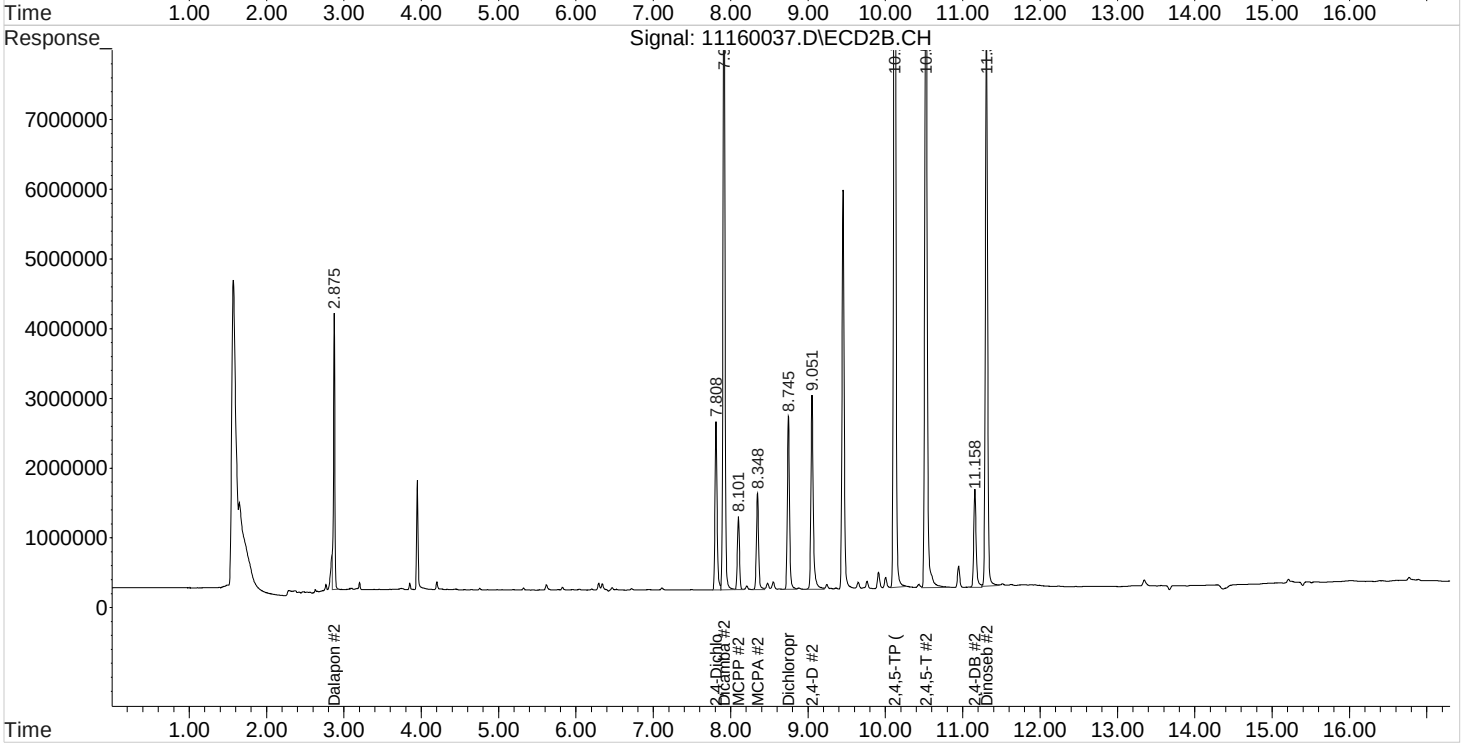
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160037.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:13 am 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: Nov 19 15:04:01 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





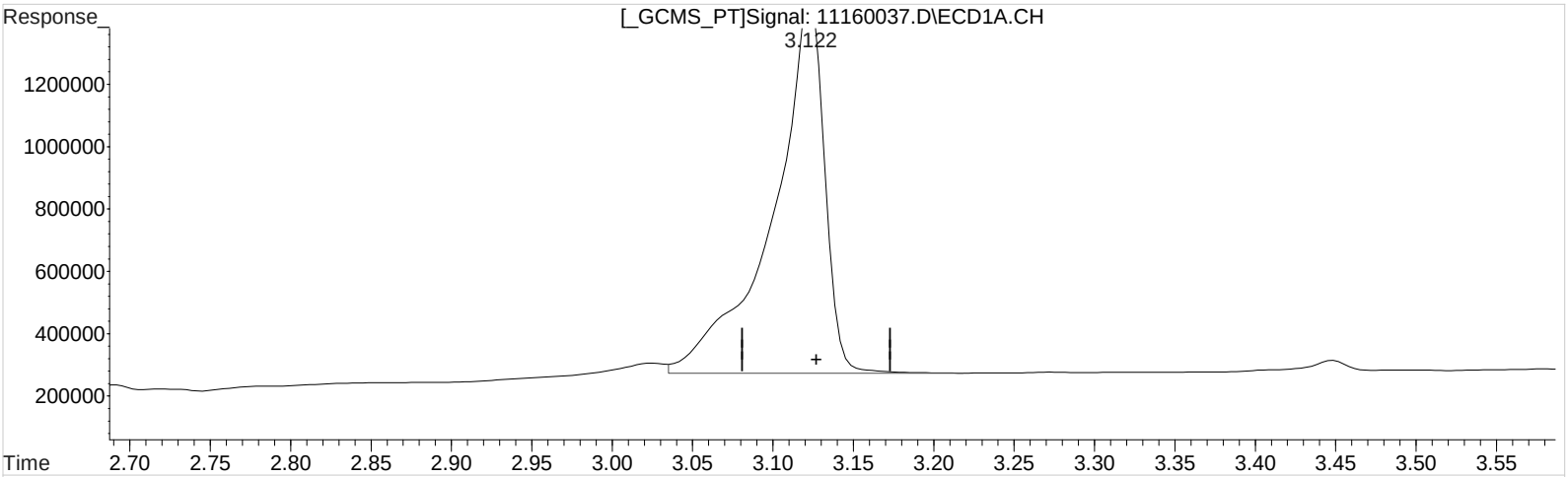
Quantitation Report (Qedit)

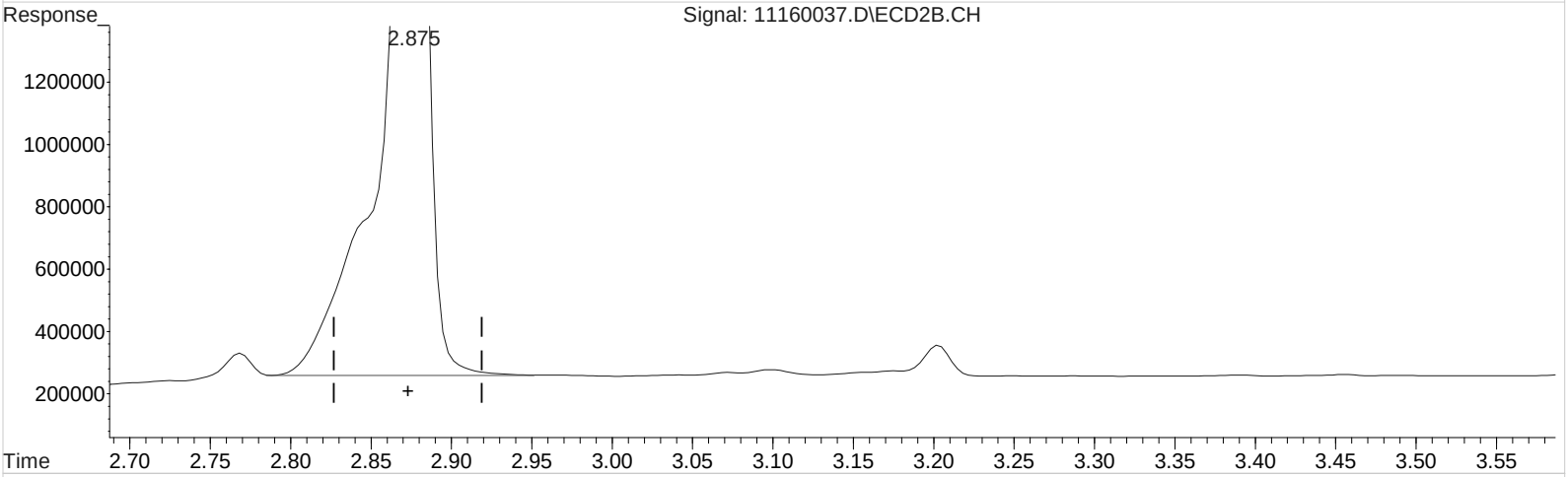
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160037.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:13 am 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: Nov 17 16:29:30 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 17:31:59 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)

3.122min 110.024 ppb

response 2669017

(1) Dalapon #2 (m)

2.875min 114.829 ppb

response 5547708

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

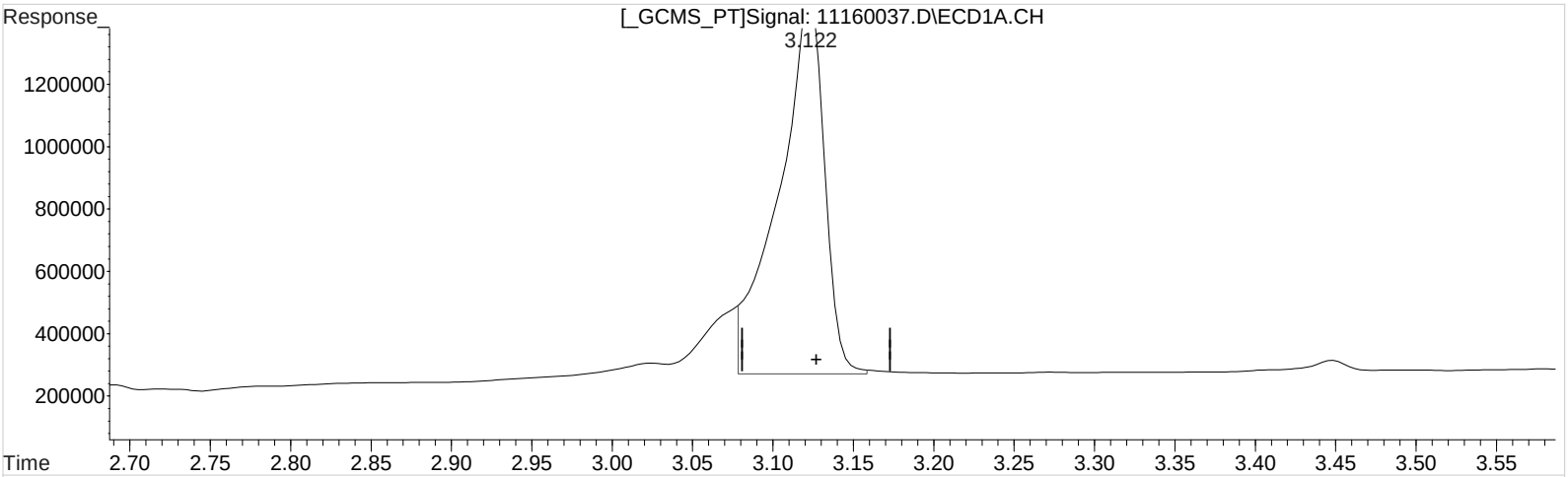
Quantitation Report (Qedit)

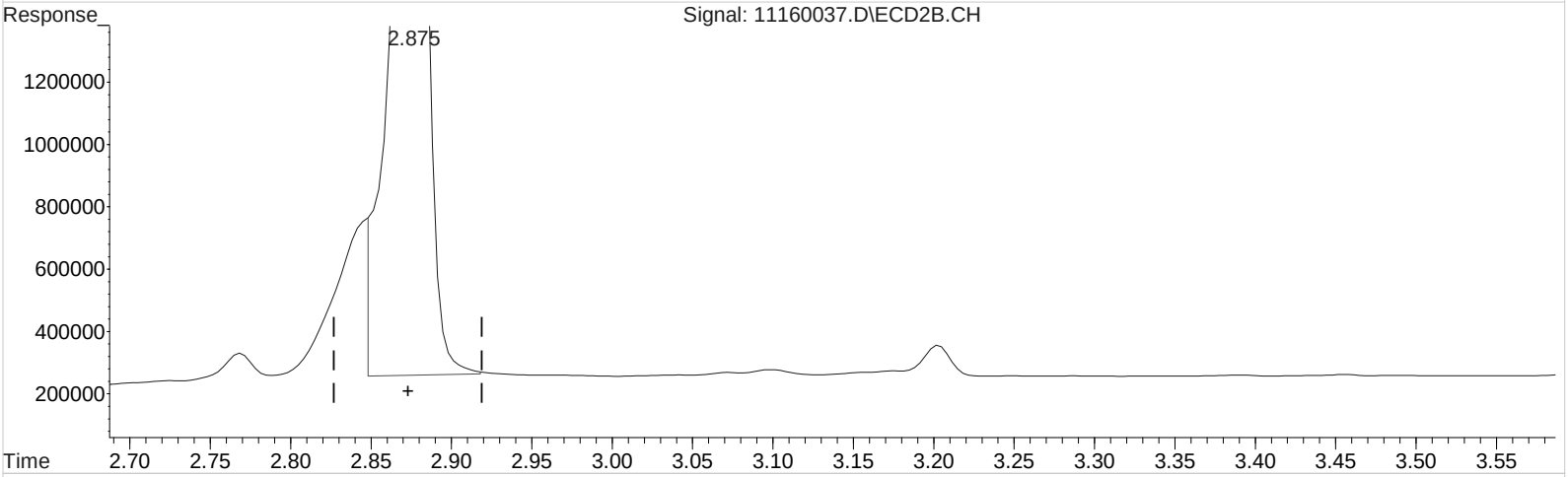
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160037.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:13 am 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: Nov 17 16:29:30 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 17:31:59 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)

3.122min 96.786 ppb m

response 2347876

(1) Dalapon #2 (m)

2.875min 98.933 ppb m

response 4779733

Manual Integration:

After

Baseline/Shoulder

11/19/20

(+) = Expected Retention Time

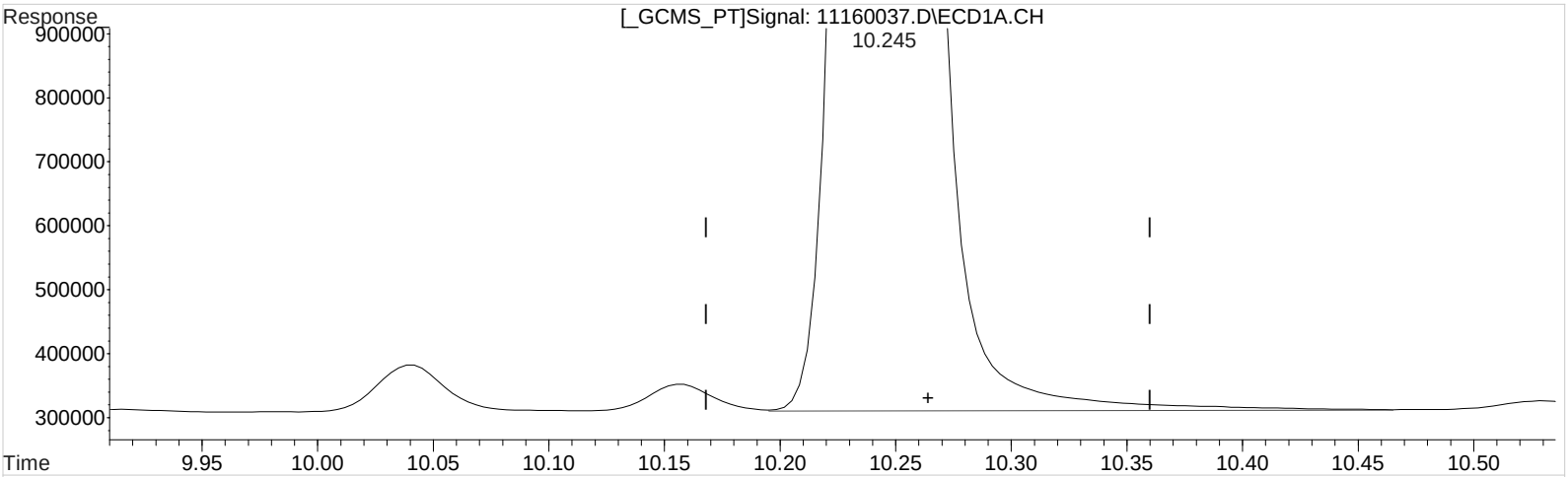
Quantitation Report (Qedit)

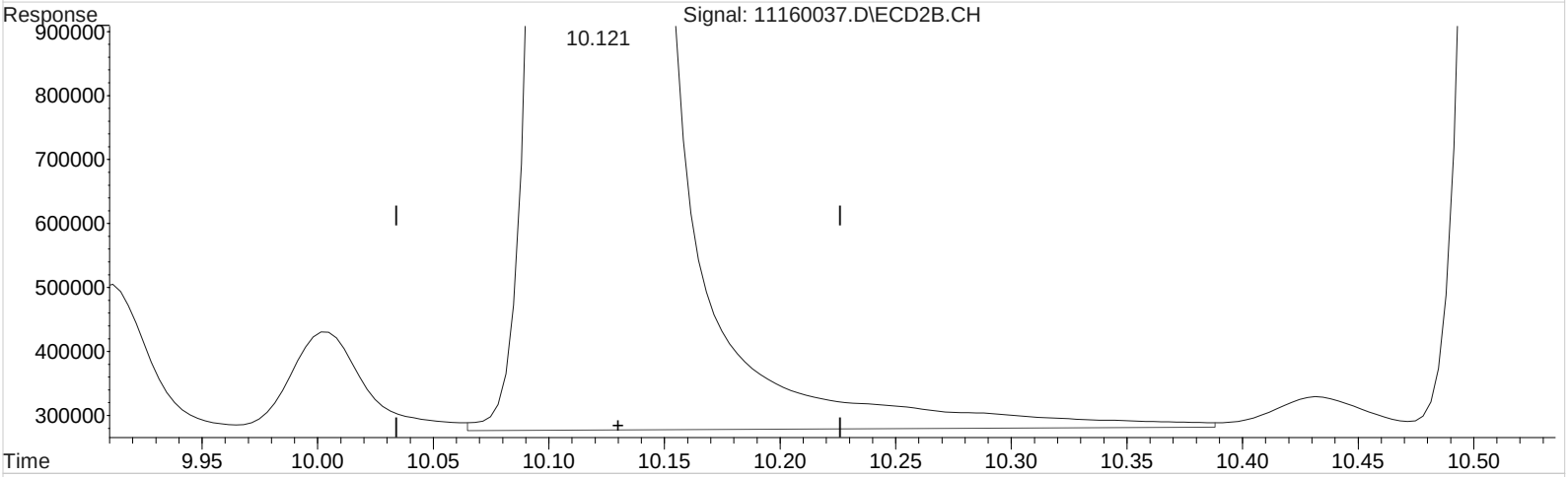
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160037.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:13 am 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: Nov 17 16:29:30 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 17:31:59 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)

10.245min 104.765 ppb

response 9814505

Manual Integration:

Before

11/19/20

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

10.121min 125.344 ppb

response 25444654

(+) = Expected Retention Time

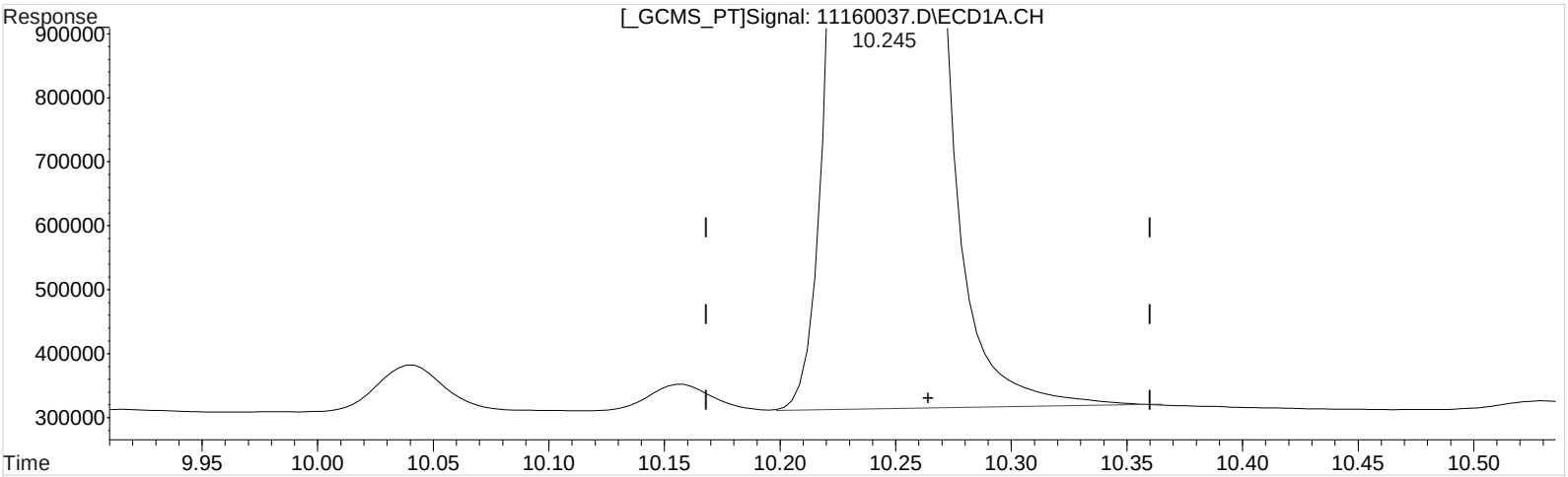
Quantitation Report (Qedit)

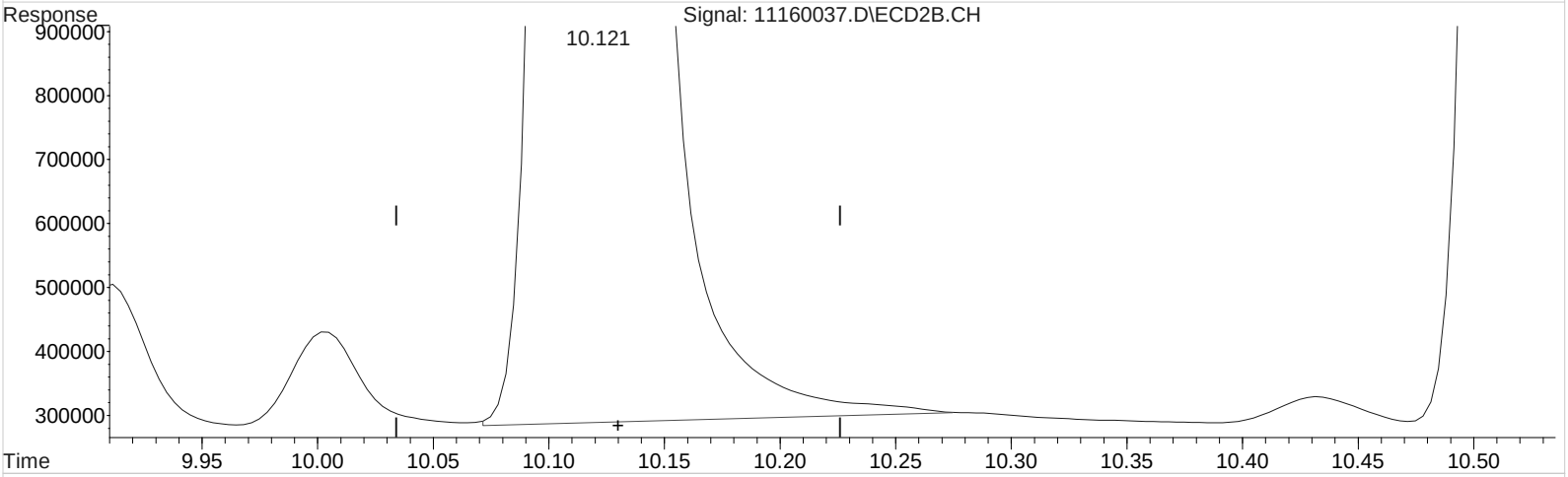
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160037.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 7:13 am 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: Nov 17 16:29:30 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 17:31:59 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)

10.245min 103.988 ppb m

response 9741751

Manual Integration:

After

Baseline/Shoulder

11/19/20

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

10.121min 123.869 ppb m

response 25145255

(+) = Expected Retention Time

1st UA 11/19/20
2nd SM 11/21/20

Validation Report

Data File: J:\gc24\data\111620\11160045.D\
Lab ID: KQ2018353-09
RunType: CCV
Matrix: Sediment

Date Acquired: 11/17/20 10:16:00
Batch ID: 703644
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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 11/19/20
2nd SM 11/21/20

Quantitation Report

Data File:	J:\gc24\data\111620\11160045.D\	**Instrument:**	K-GC-24
Acqu Date:	11/17/20 10:16:00	**Vial:**	9
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2018353-09	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	10/30/20	**Receive Date:**	11/3/20

Analysis Lot:	703644	**Prep Lot:**		**Report Group:**	KQ2018353
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	7.98	7.81	1866352	4539522	102.566	107.323			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	10.25	10.12	9845031	25296481	105.091	124.614	105	125	Y
2,4-D	9.31	9.05	2191941	5914804	103.198	115.527	103	116	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: 11/19/20 16:25
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160045.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 10:16 am 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: Nov 19 15:16:12 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 17:31:59 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...	7.982	7.812	1866352	4539522	102.566	107.323
	Target Compounds						
1) m	Dalapon	3.122	2.875	2384921	4727679	98.313m	97.856m
3) m	Dicamba	8.202	7.912	7317899	16813758	104.841	113.443
4) m	MCPP	8.289	8.102	436253	1988340	9896.581	12323.427
5) m	MCPA	8.552	8.349	615746	2718523	10516.131	12489.264
6) m	Dichloroprop	8.952	8.745	1935668	4836591	103.802	115.943
7) m	2,4-D	9.306	9.052	2191941	5914804	103.198	115.527
8) m	2,4,5-TP ...	10.246	10.122	9845031	25296481	105.091	124.614
9) m	2,4,5-T	10.692	10.525	8086794	22272908	98.010	116.388
10) m	2,4-DB	11.272	11.159	949113	3172122	92.512	109.324
11) m	Dinoseb	11.669	11.309	6077335	16290519	98.234	119.120

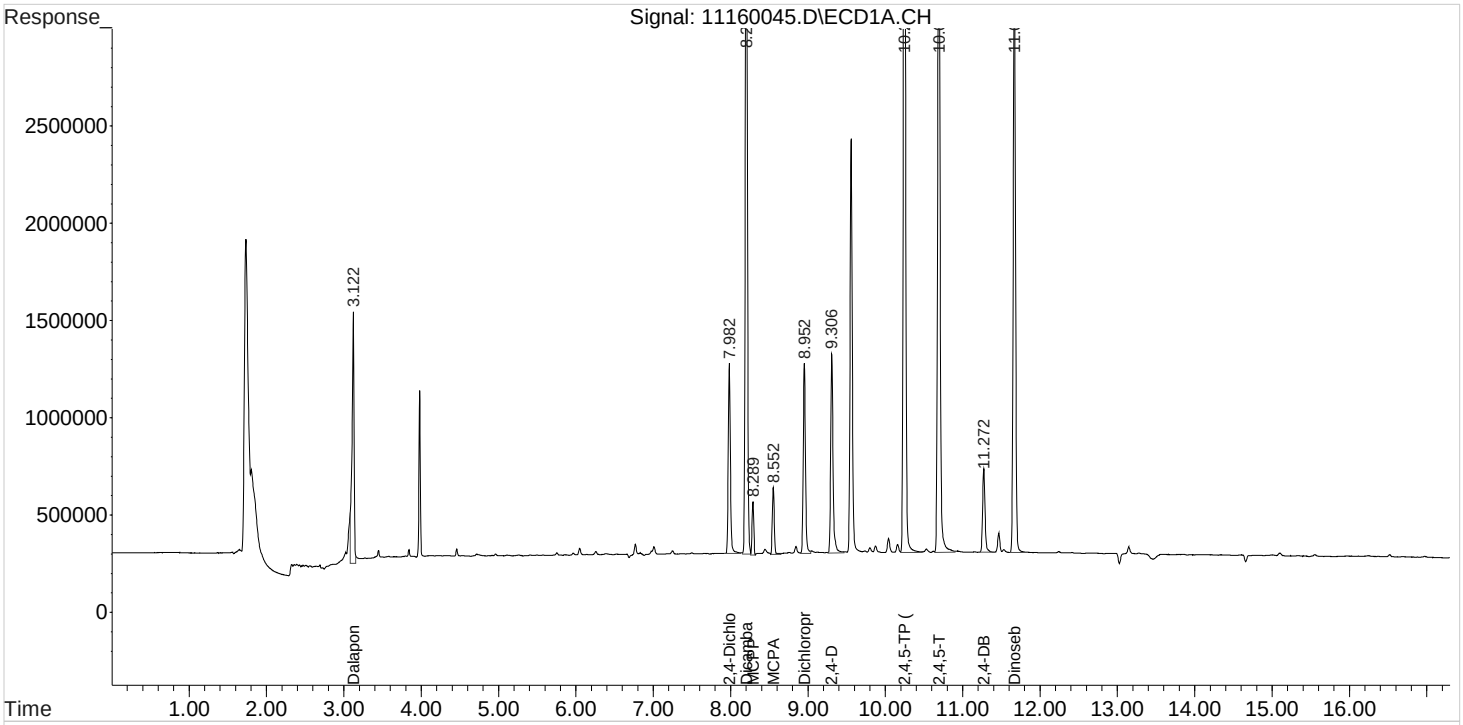
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

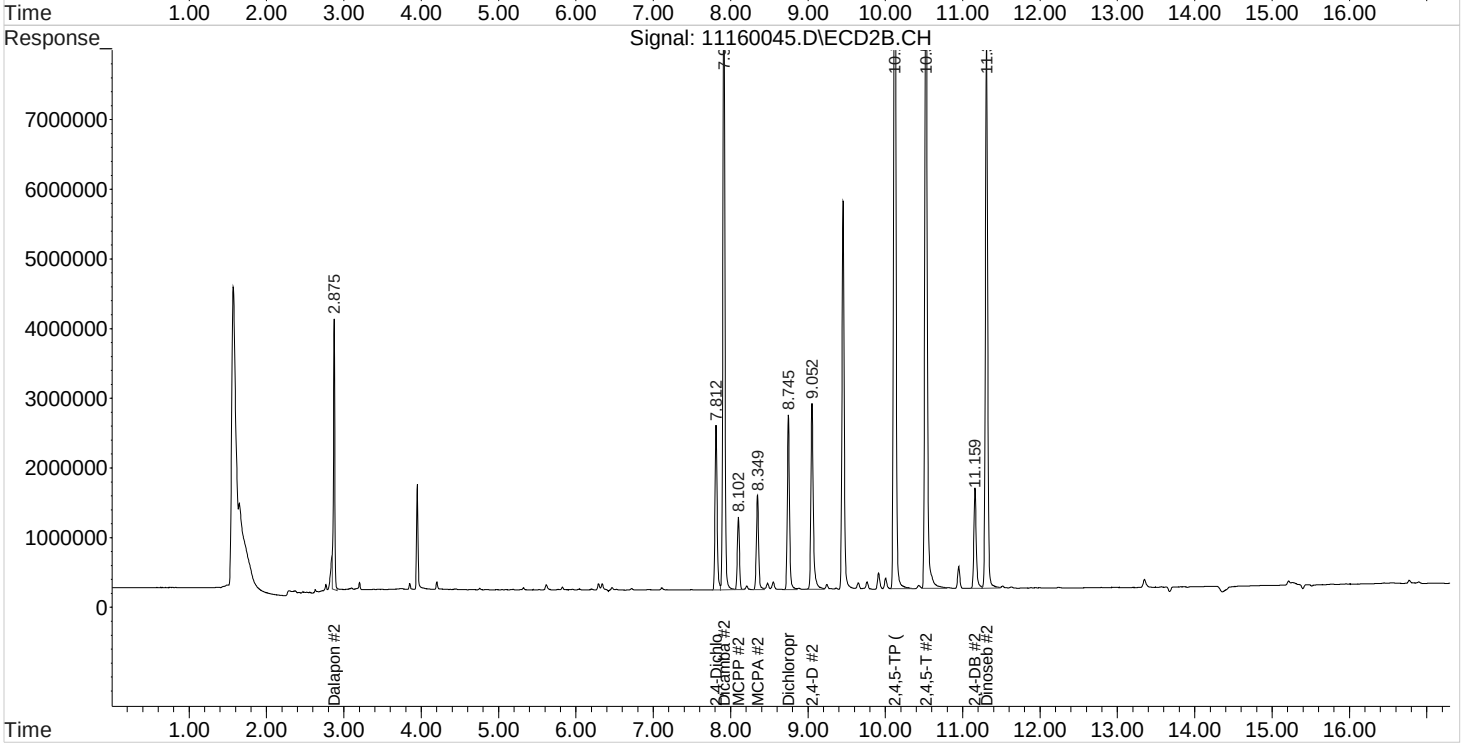
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160045.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 10:16 am 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: Nov 19 15:16:12 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 17:31:59 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





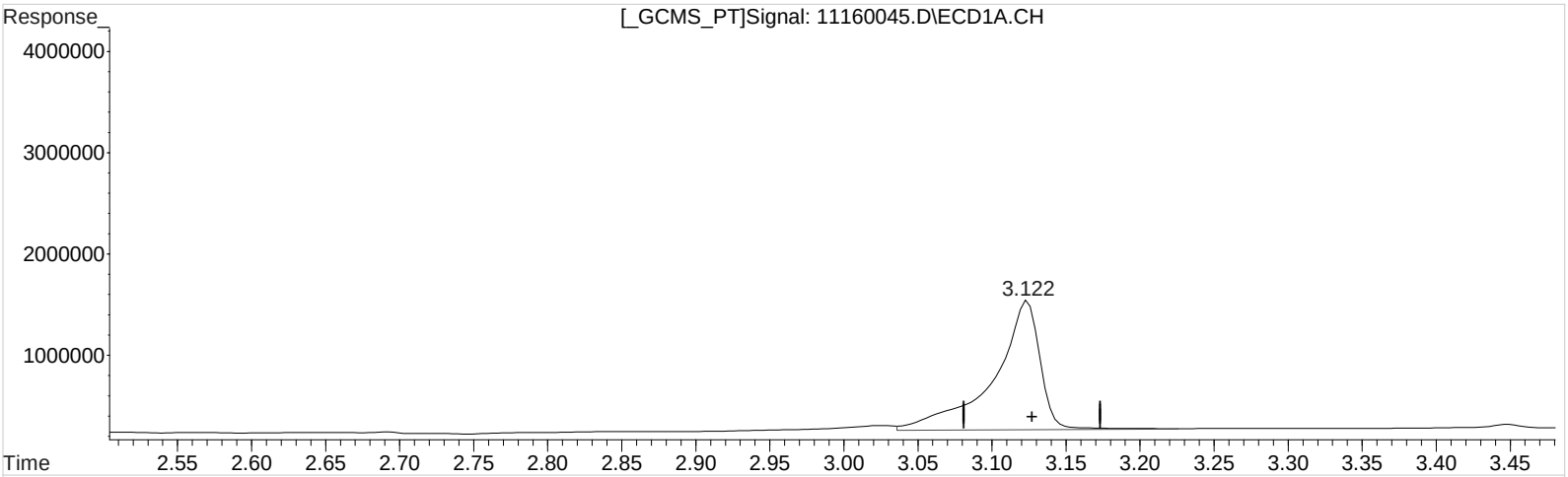
Quantitation Report (Qedit)

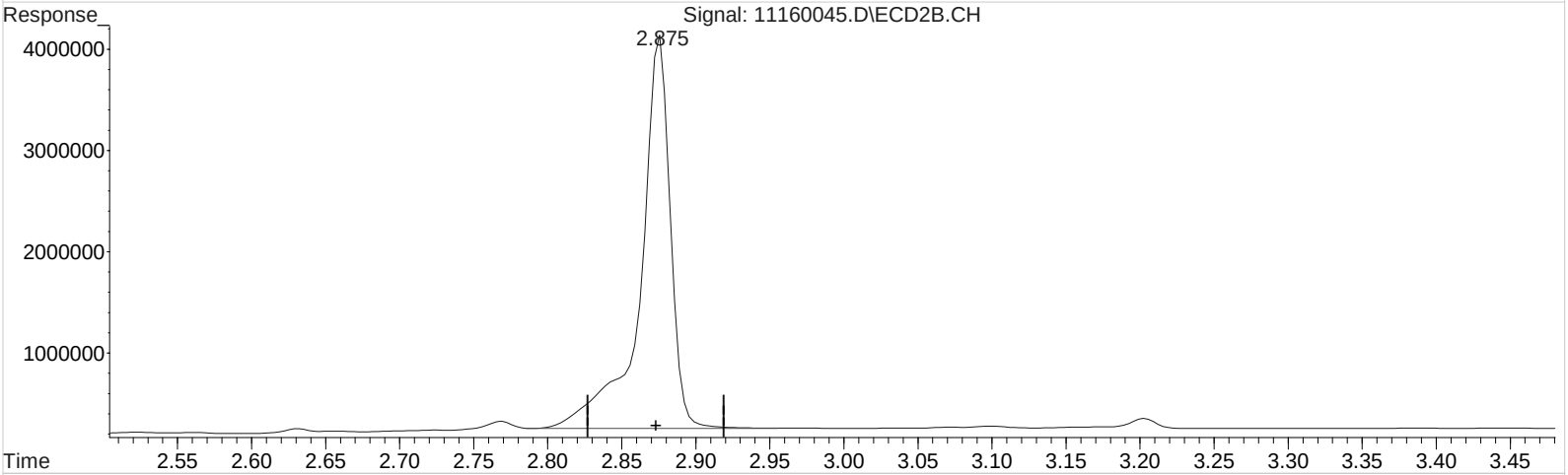
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160045.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 10:16 am 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: Nov 19 15:15:46 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)

3.122min 115.041 ppb

response 2790723

(1) Dalapon #2 (m)

2.875min 113.537 ppb

response 5485268

Manual Integration:

Before

11/19/20

(+) = Expected Retention Time

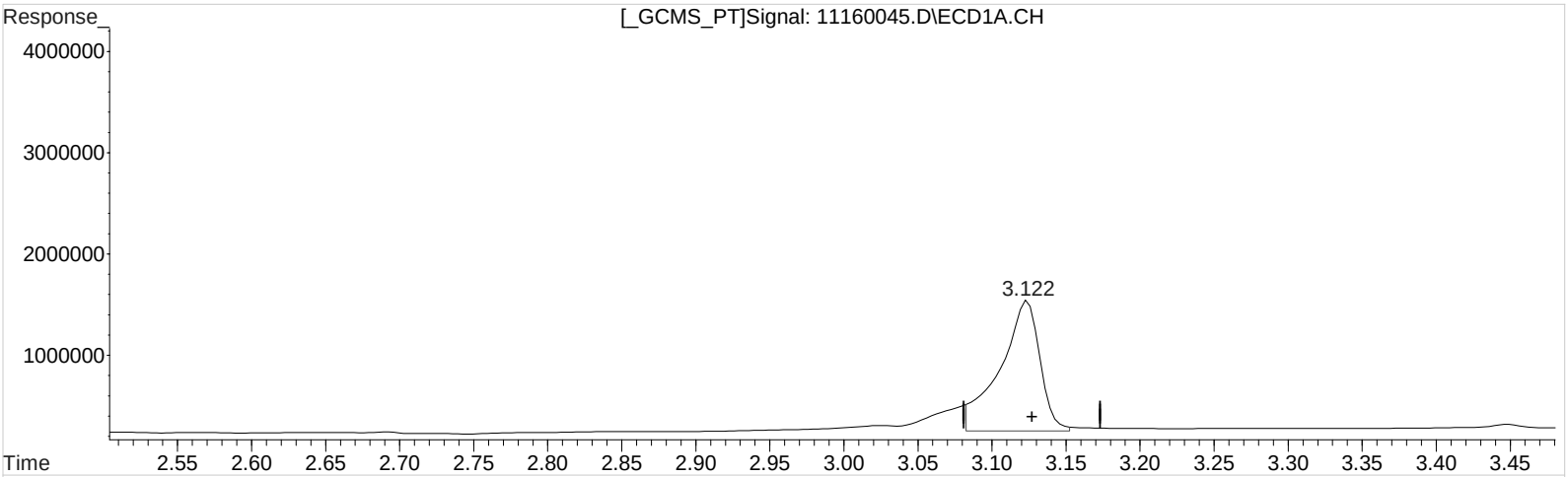
Quantitation Report (Qedit)

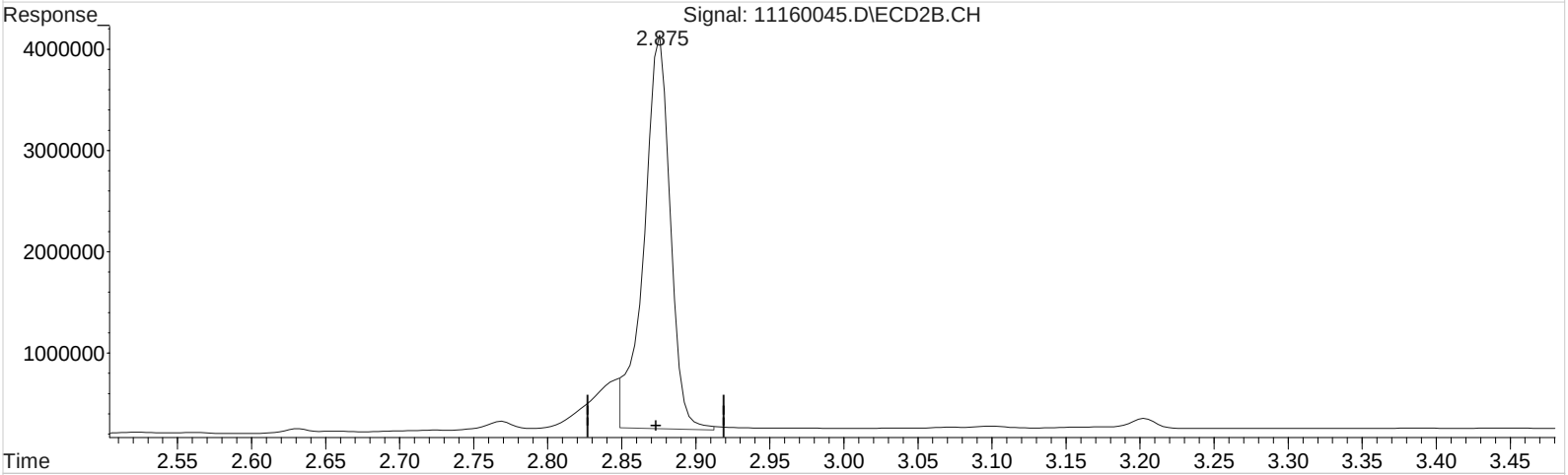
1st UA 11/19/20
2nd SM 11/21/20

Data File : J:\gc24\data\111620\11160045.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Nov 2020 10:16 am 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: Nov 19 15:15:46 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)

3.122min 98.313 ppb m

response 2384921

(1) Dalapon #2 (m)

2.875min 97.856 ppb m

response 4727679

Manual Integration:

After

Baseline/Shoulder

11/19/20

(+) = 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	ICAL: KC2000566	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

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

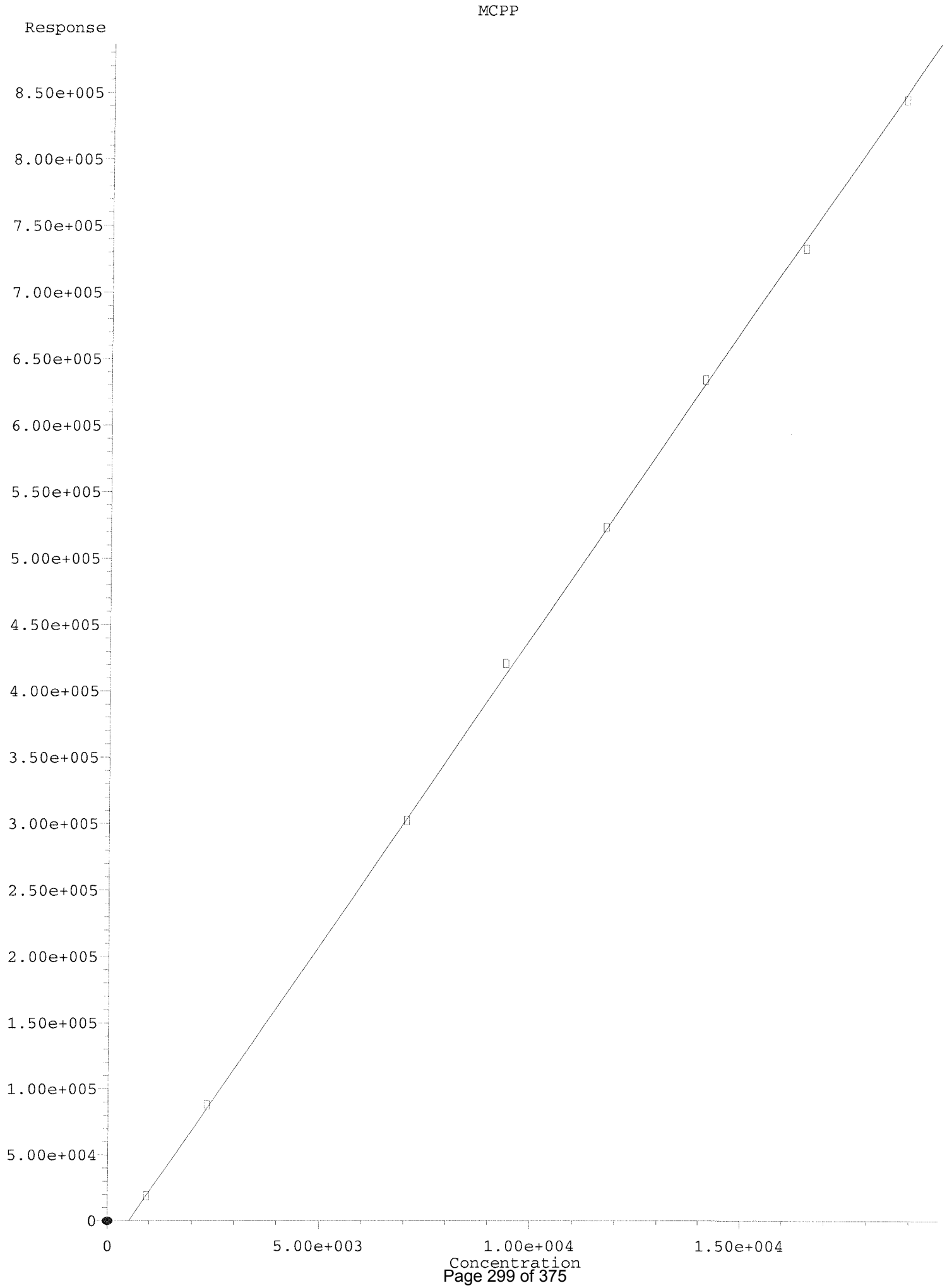
		Compound	1	2	4	5	6	Avg		%RSD
1)	m	Dalapon	2.671	2.733	2.254	2.374	2.344	2.385	2.426 E4	7.29
2)	s	2,4-Dichlorop...	2.115	2.015	1.798	1.794	1.738	1.732	1.820 E4	8.79
3)	m	Dicamba	7.596	7.540	6.777	6.892	6.778	6.830	6.980 E4	5.27
4)	m	MCPP	2.001	3.740	4.291	4.480	4.454	4.501	4.053 E1	21.41
5)	m	MCPA	4.567	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

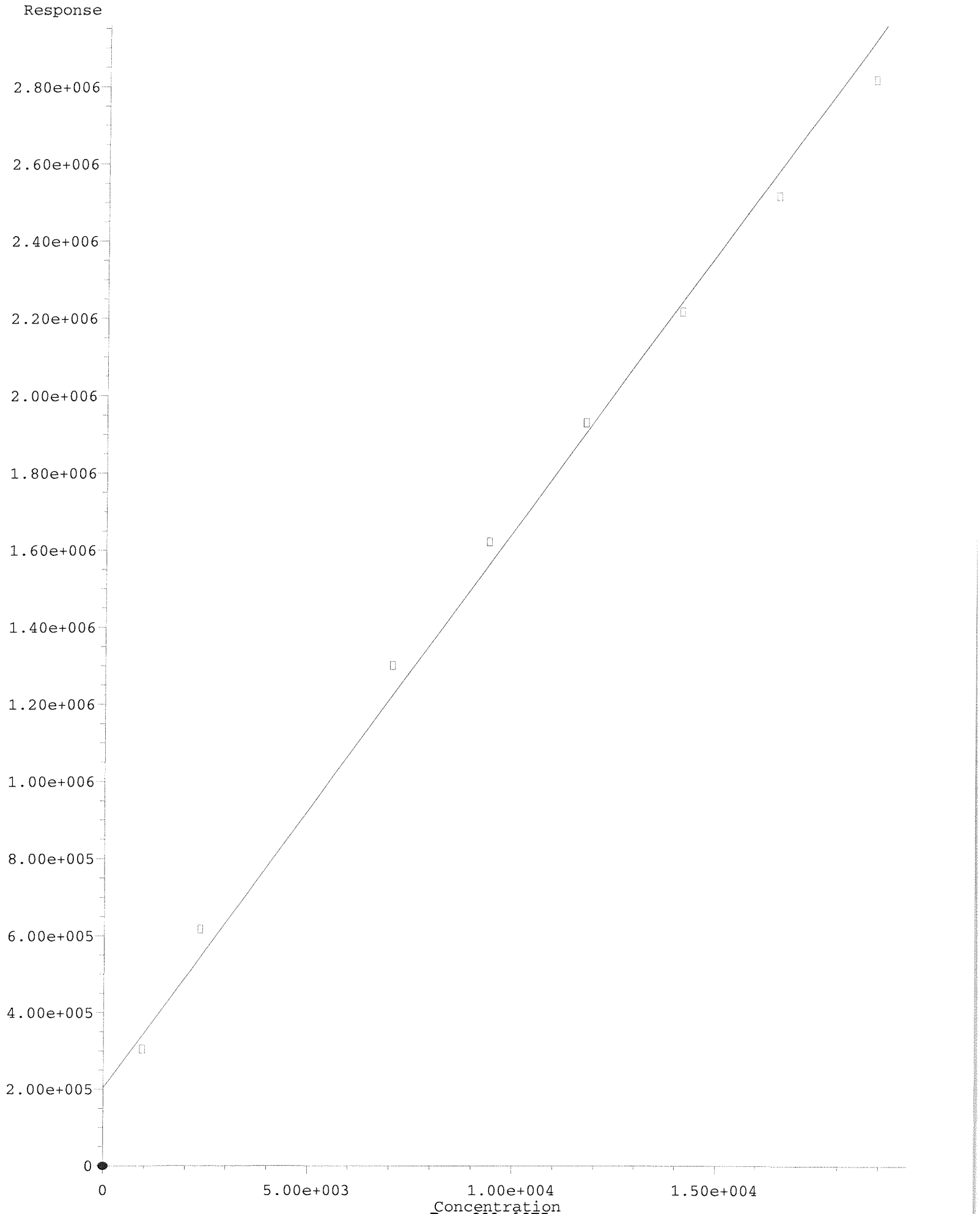
Signal #2 Calibration Files
1 =10210004.D 2 =10210005.D =
4 =10210006.D 5 =10210007.D 6 =10210008.D

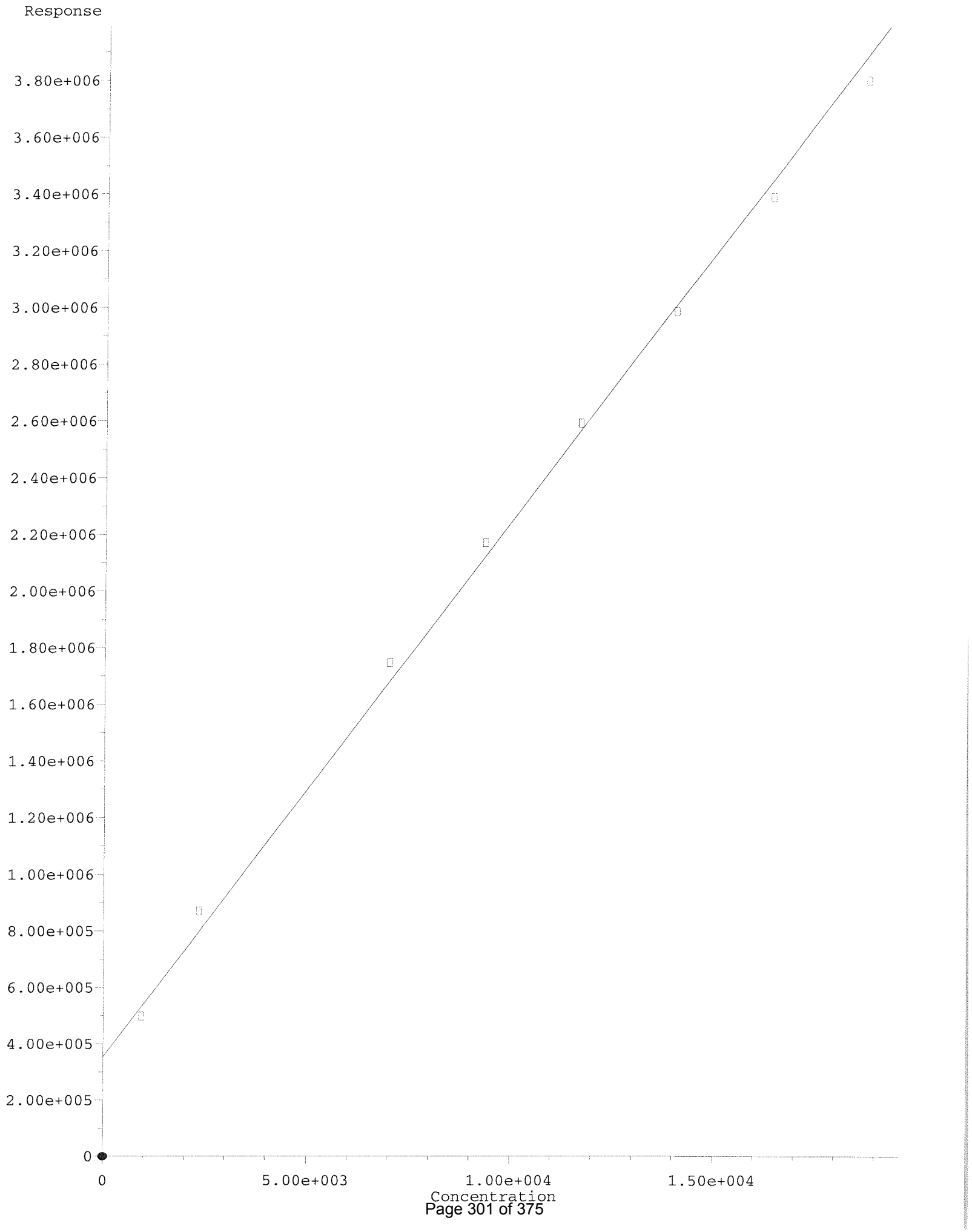
		Compound	1	2	4	5	6	Avg		%RSD
1)	m	Dalapon	5.105	5.207	4.698	4.631	4.838	4.664	4.831 E4	4.39
2)	s	2,4-Dichlorop...	5.587	4.943	4.041	3.953	3.892	3.822	4.230 E4	15.77
3)	m	Dicamba	1.724	1.593	1.424	1.430	1.425	1.416	1.482 E5	7.71
4)	m	MCPP	3.248	2.629	1.847	1.727	1.645	1.574	1.963 E2	32.32
5)	m	MCPA	5.322	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.

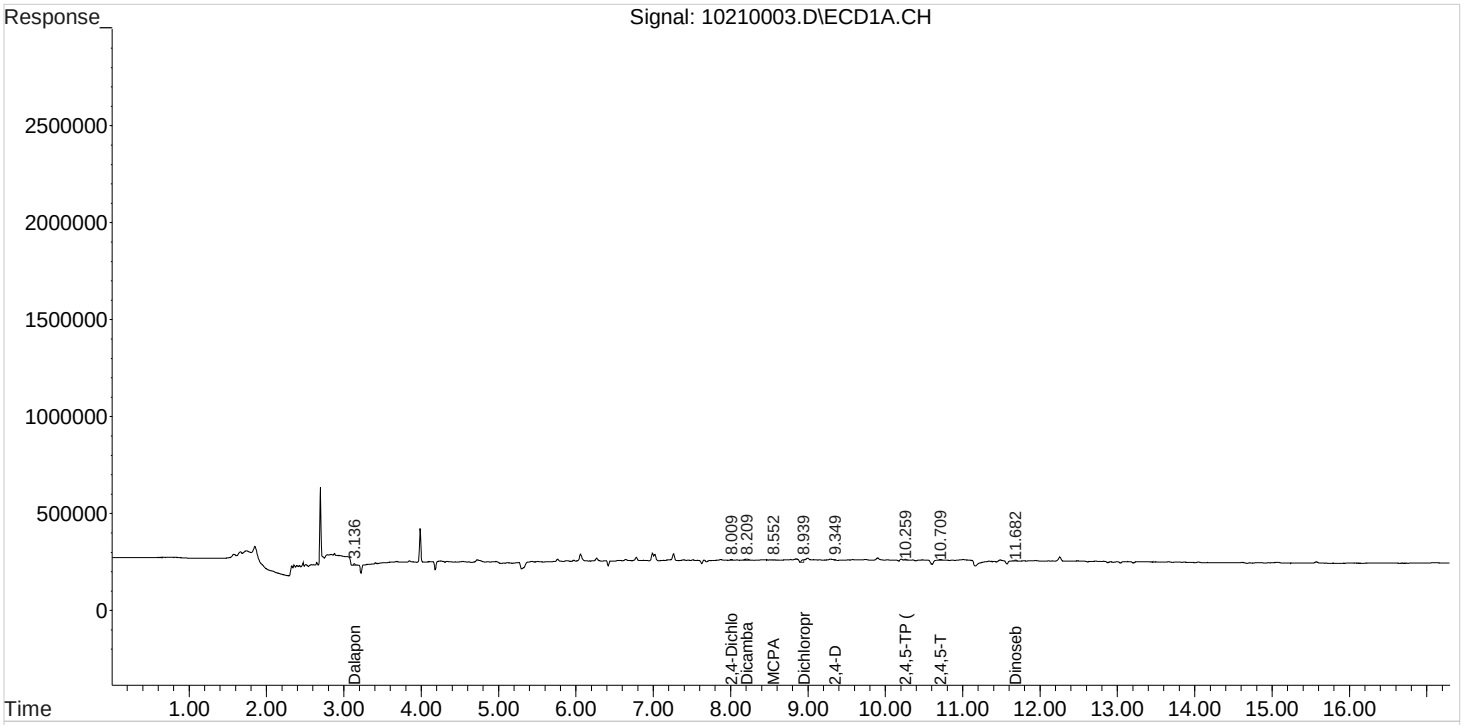
Quantitation Report (QT Reviewed)

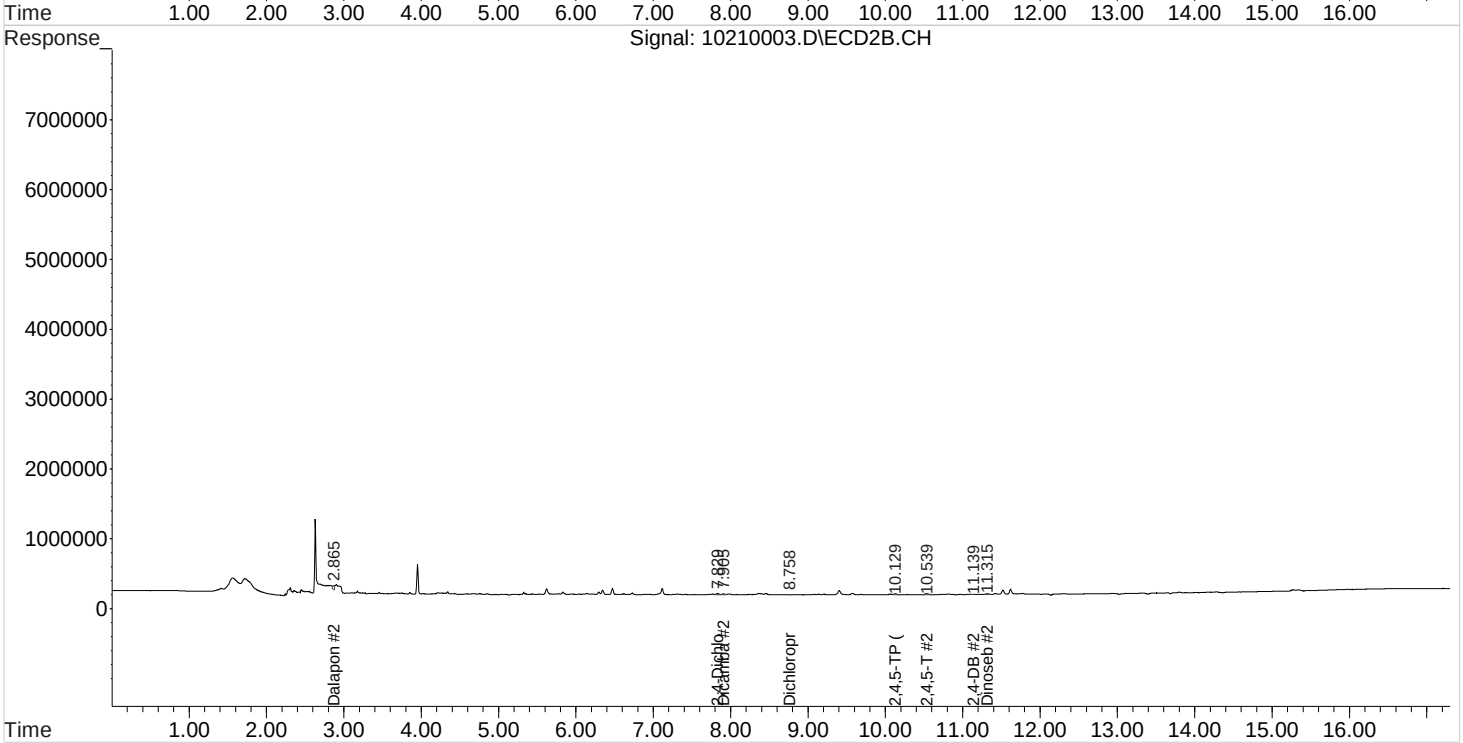
1st UA 10/21/20
2nd 10/22/20

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.

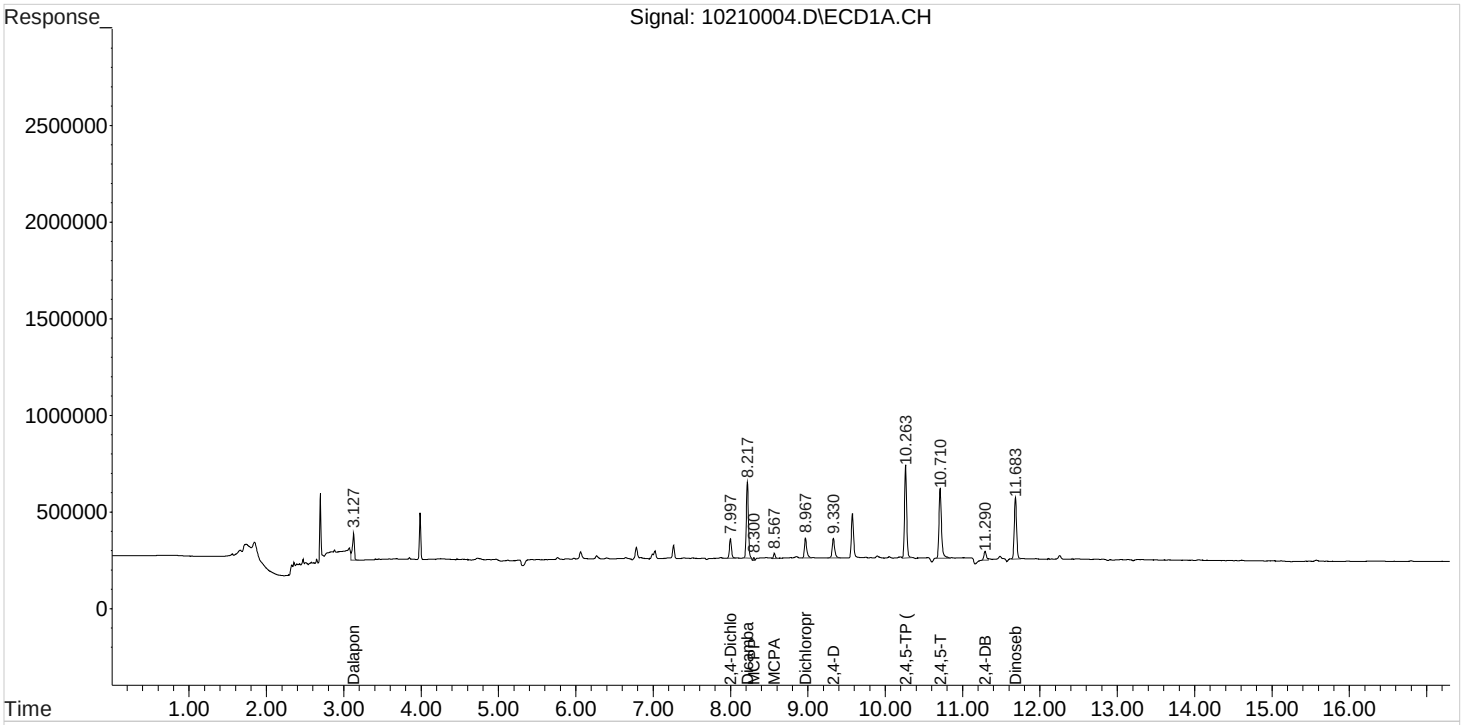
Quantitation Report (QT Reviewed)

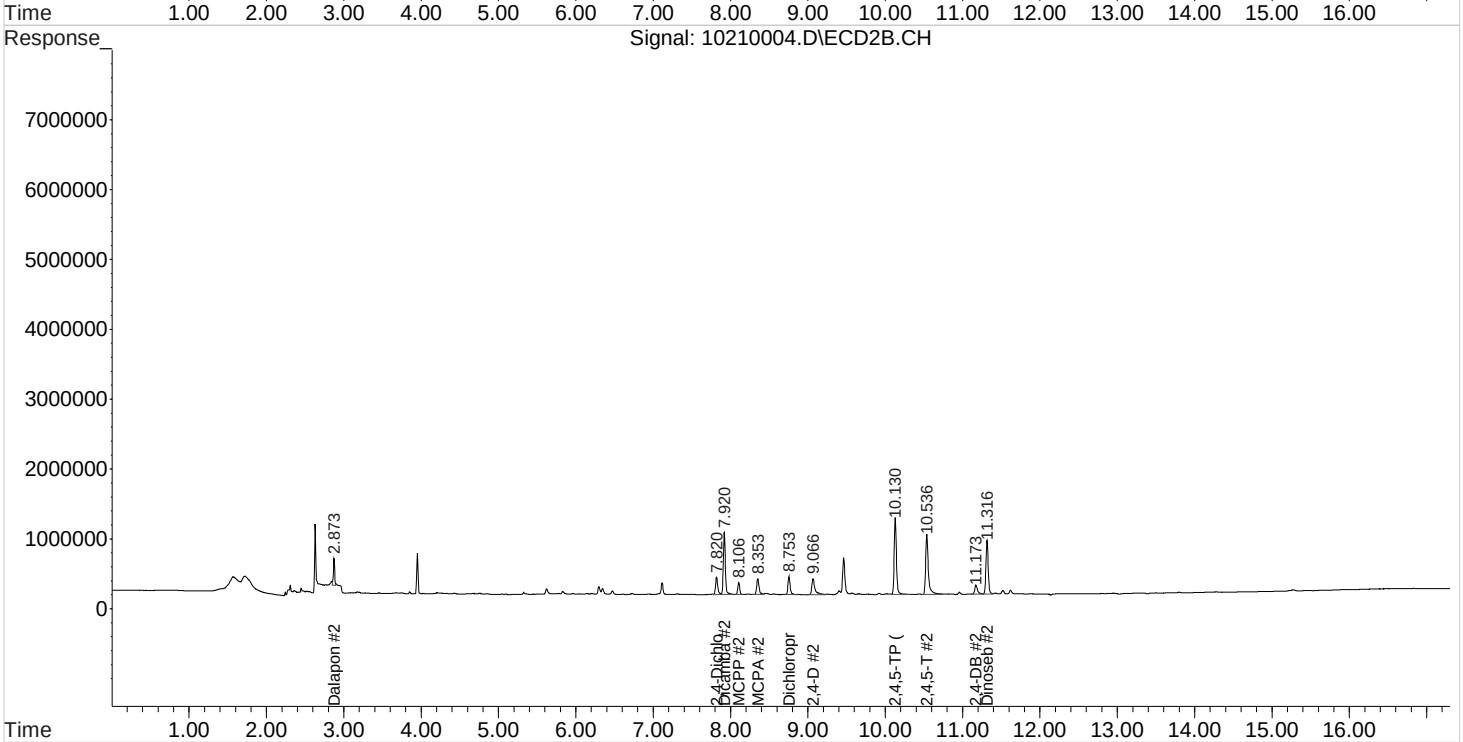
1st UA 10/21/20
2nd 10/22/20

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





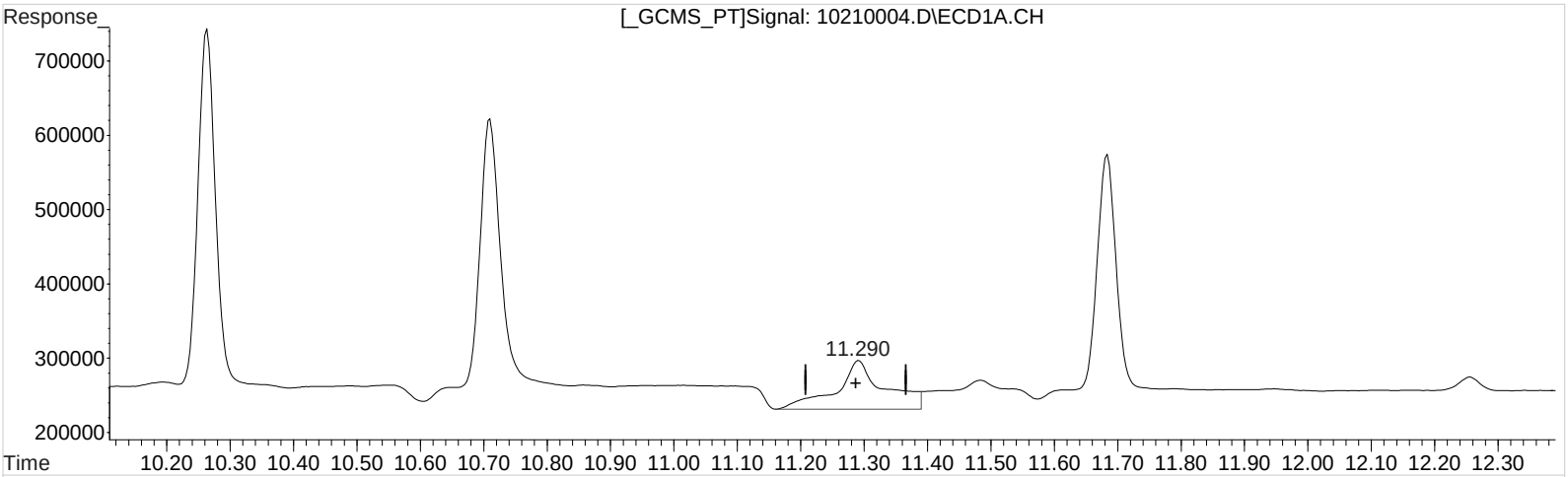
Quantitation Report (Qedit)

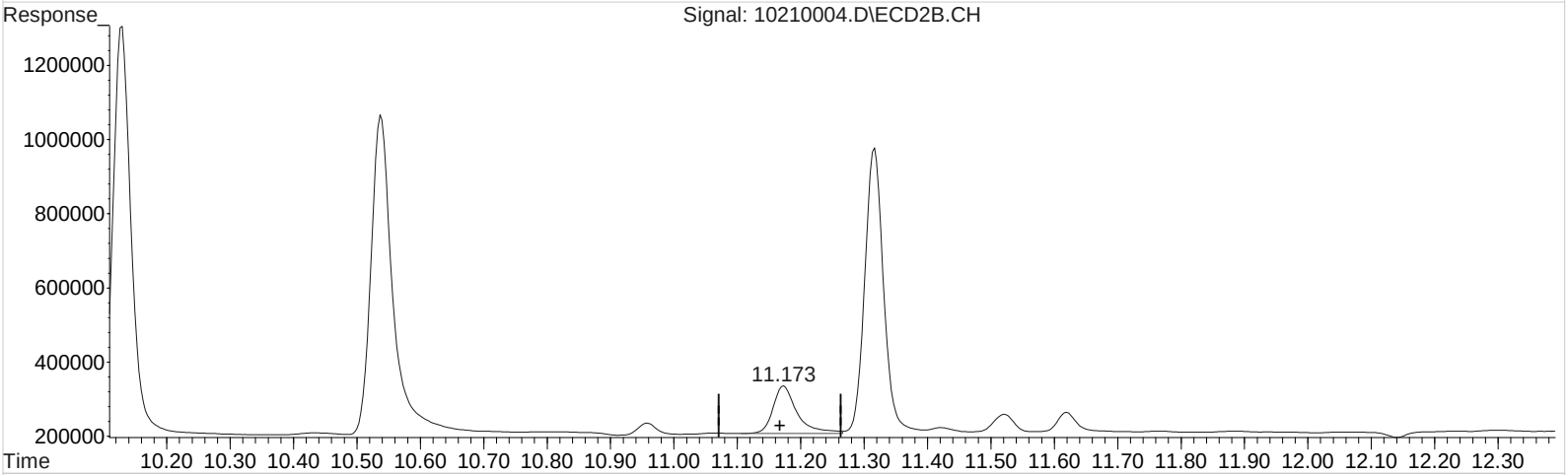
1st UA 10/21/20
2nd 10/22/20

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

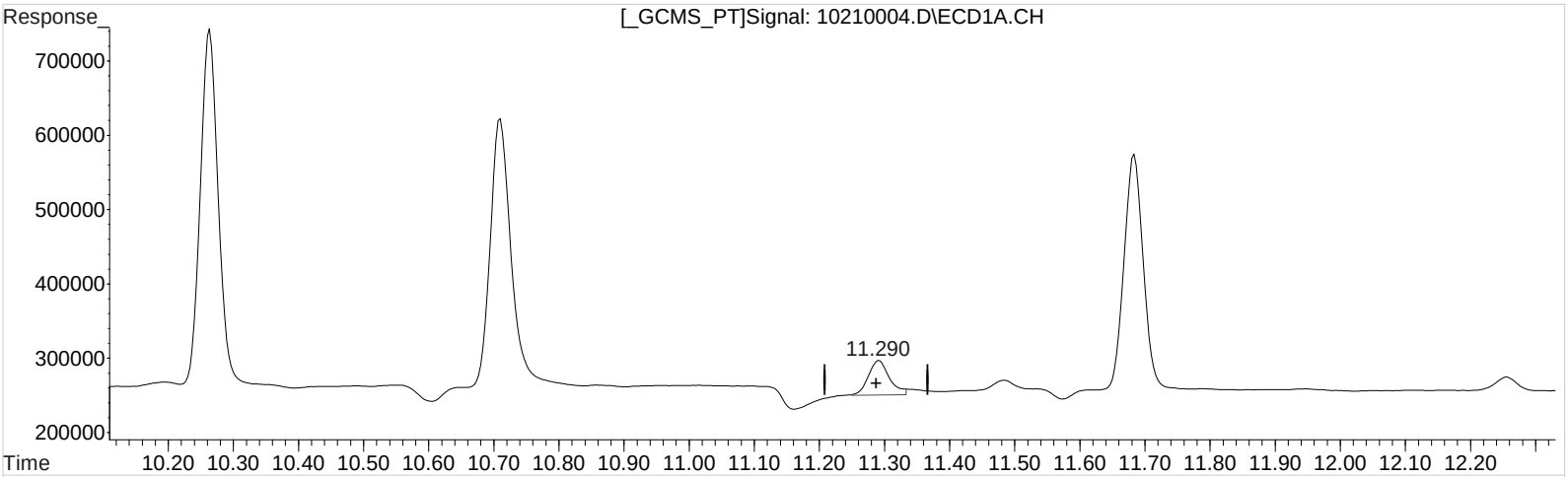
(+) = Expected Retention Time

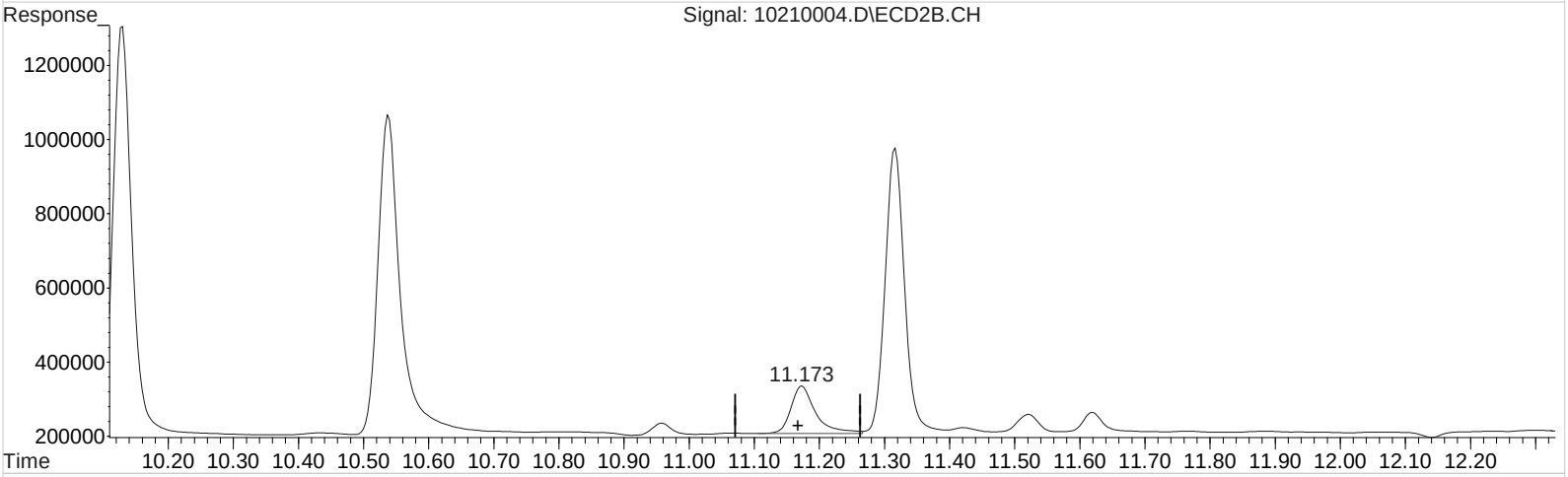
1st UA 10/21/20
2nd 10/22/20

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

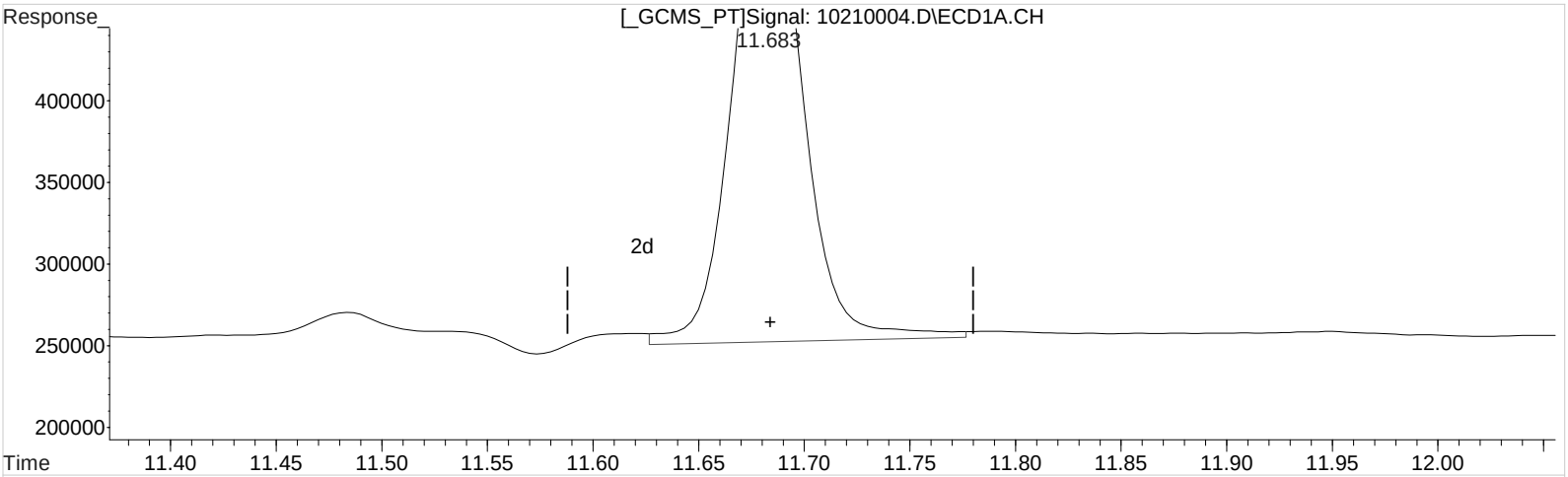
(+) = Expected Retention Time

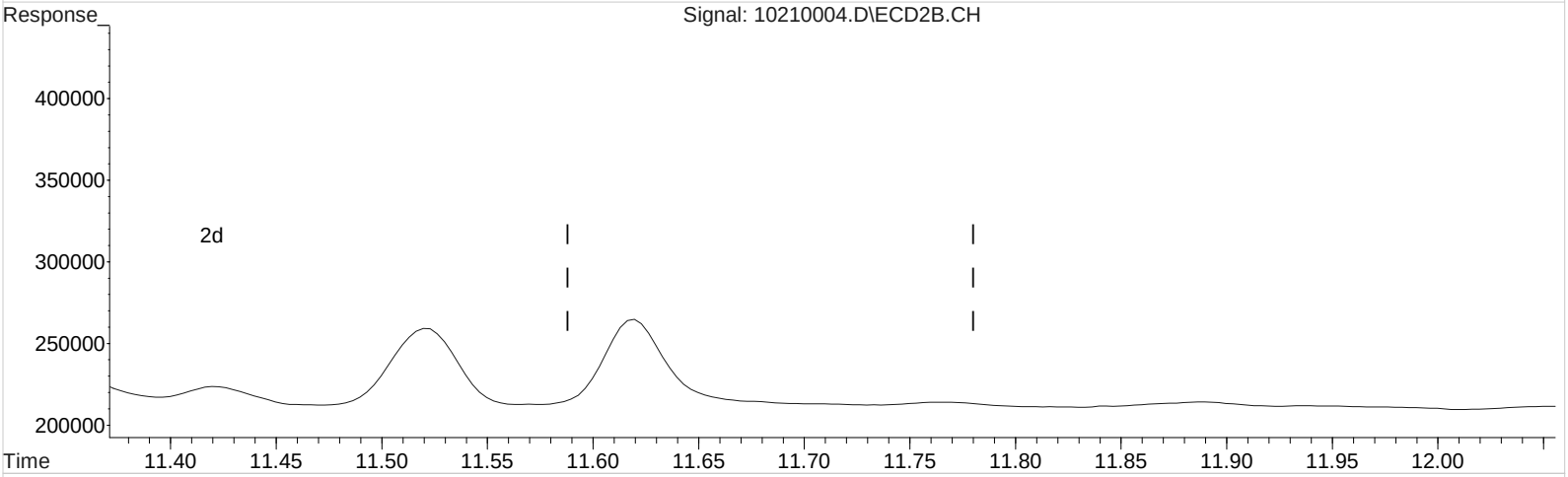
1st UA 10/21/20
2nd 10/22/20

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

Manual Integration:

Before

10/21/20

(11) Dinoseb #2 (m)

11.316min 11.980 ppb

response 1585317

(+) = Expected Retention Time

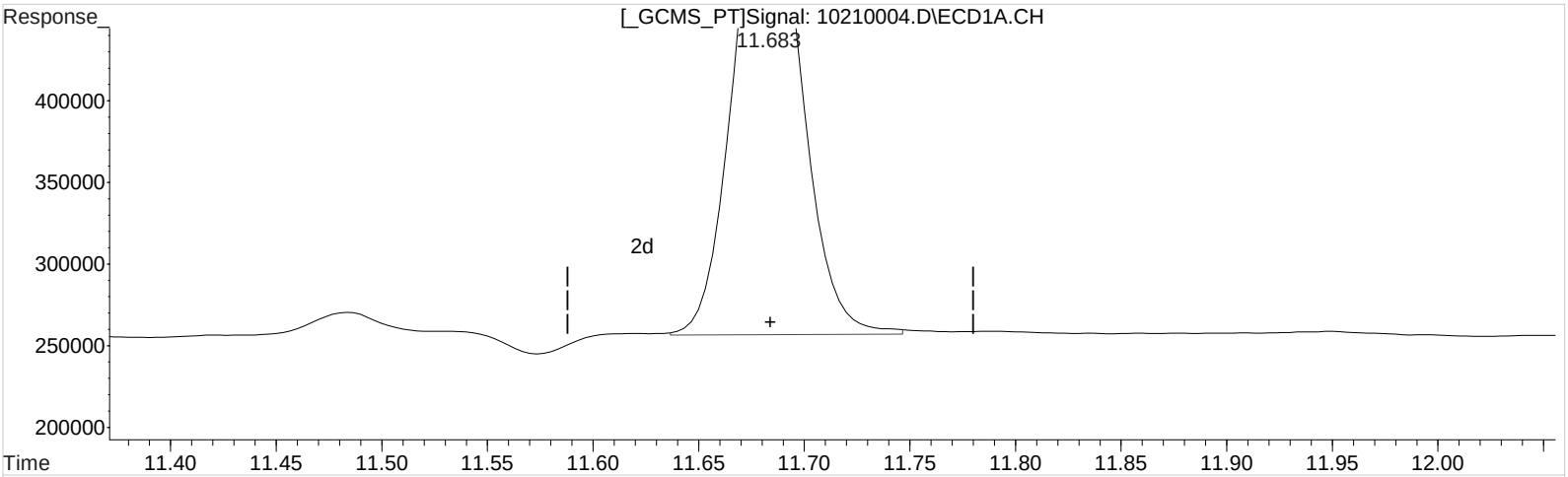
Quantitation Report (Qedit)

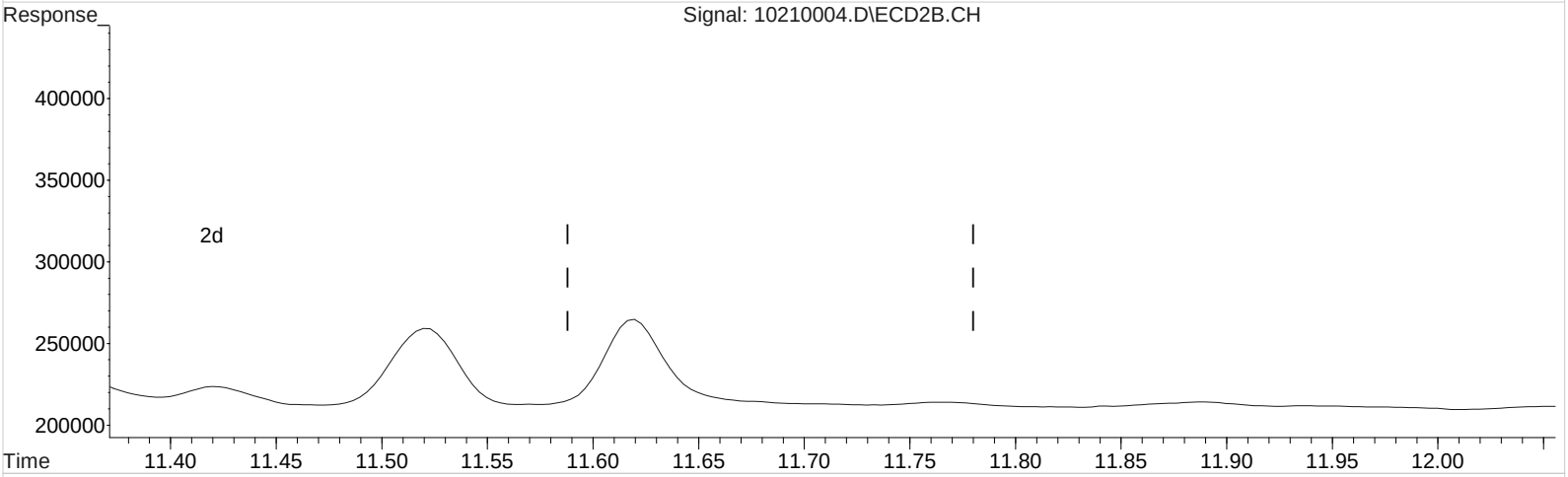
1st UA 10/21/20
2nd 10/22/20

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

(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

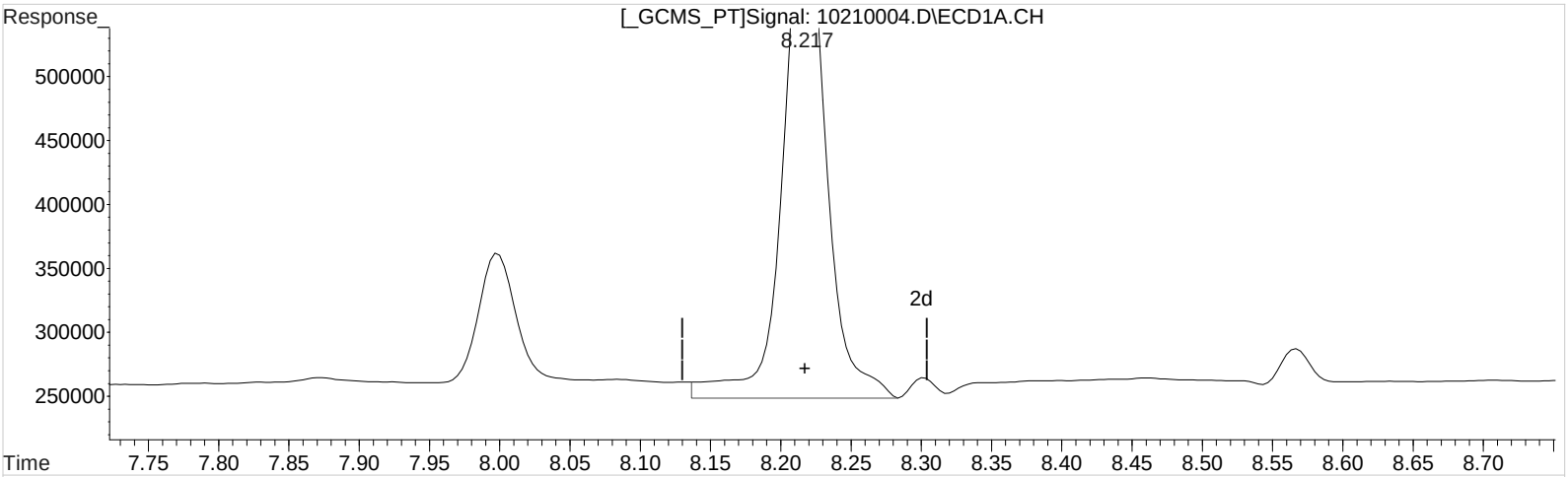
(+) = Expected Retention Time

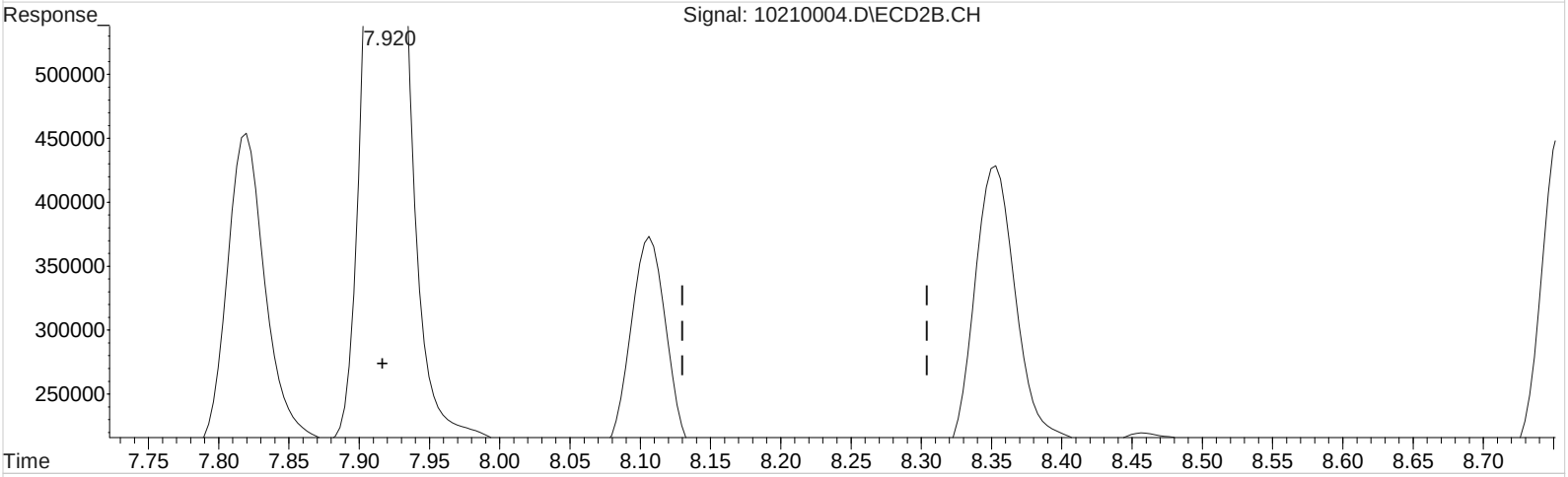
1st UA 10/21/20
2nd 10/22/20

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

Manual Integration:

Before

10/21/20

(3) Dicamba #2 (m)

7.920min 11.193 ppb

response 1620262

(+) = Expected Retention Time

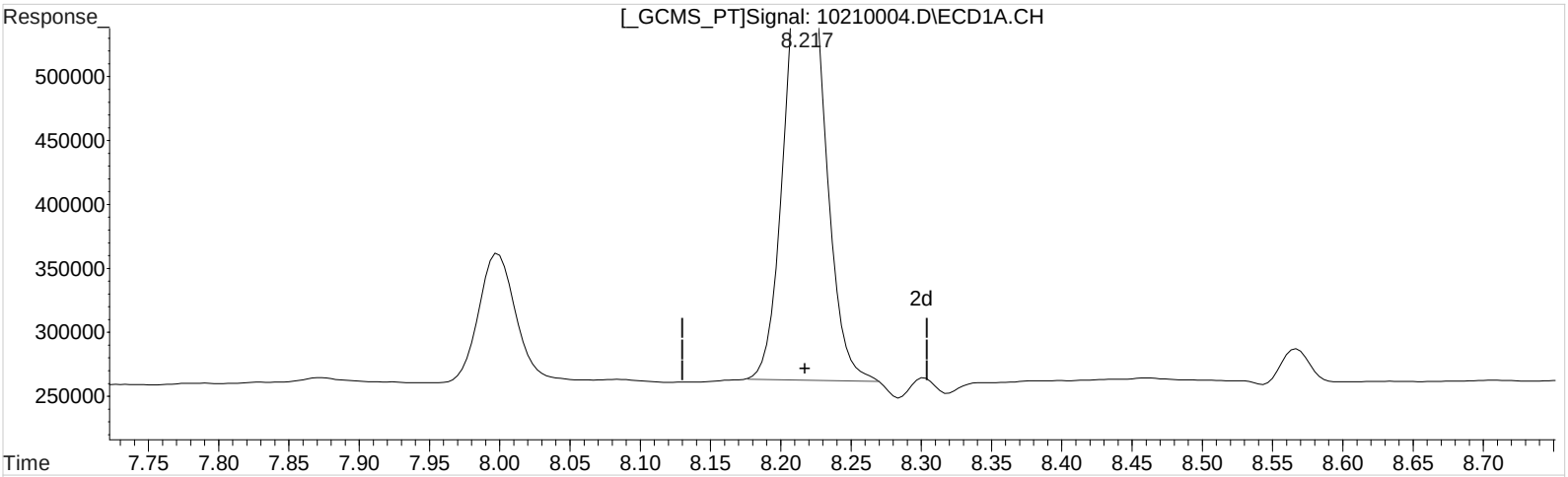
Quantitation Report (Qedit)

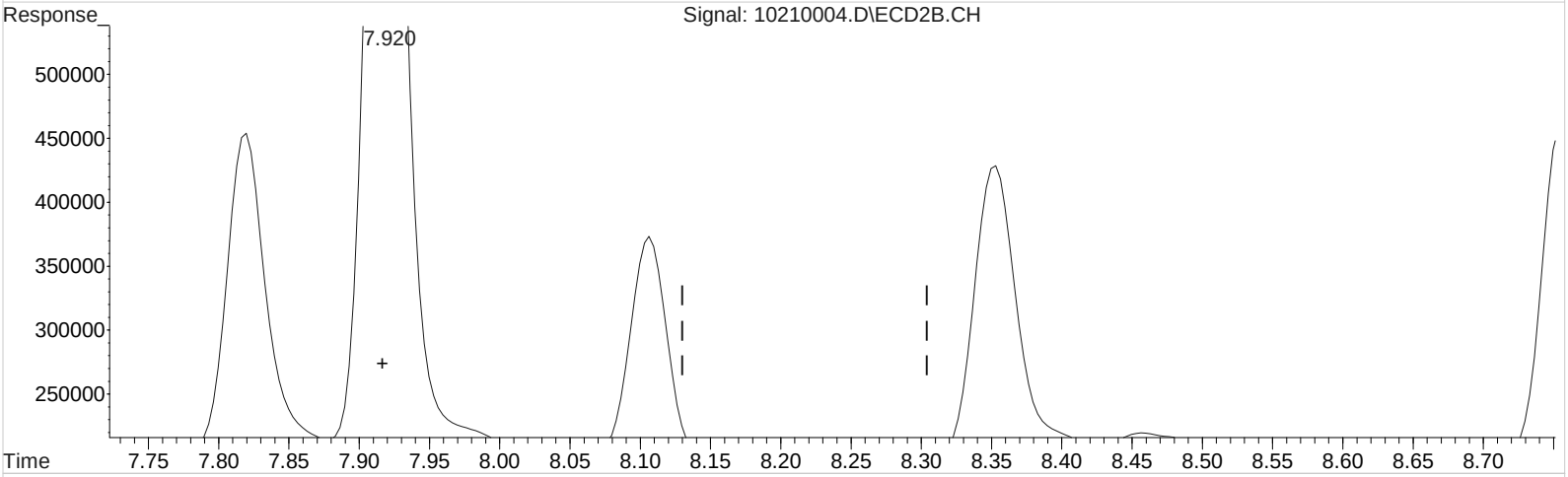
1st UA 10/21/20
2nd 10/22/20

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

(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

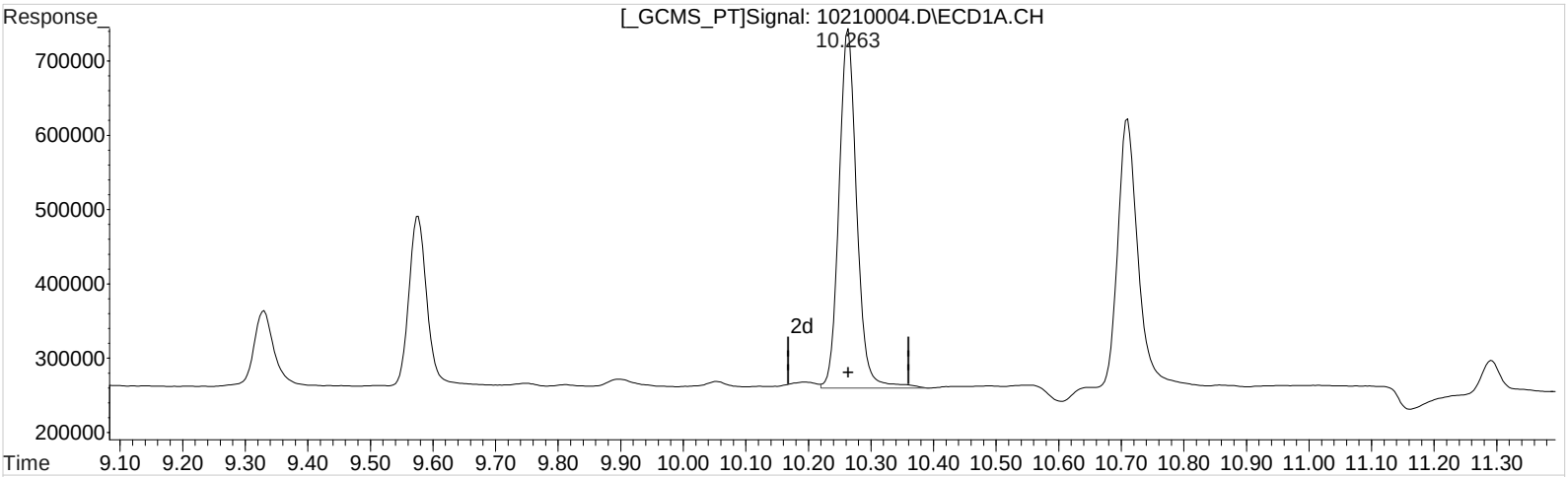
Quantitation Report (Qedit)

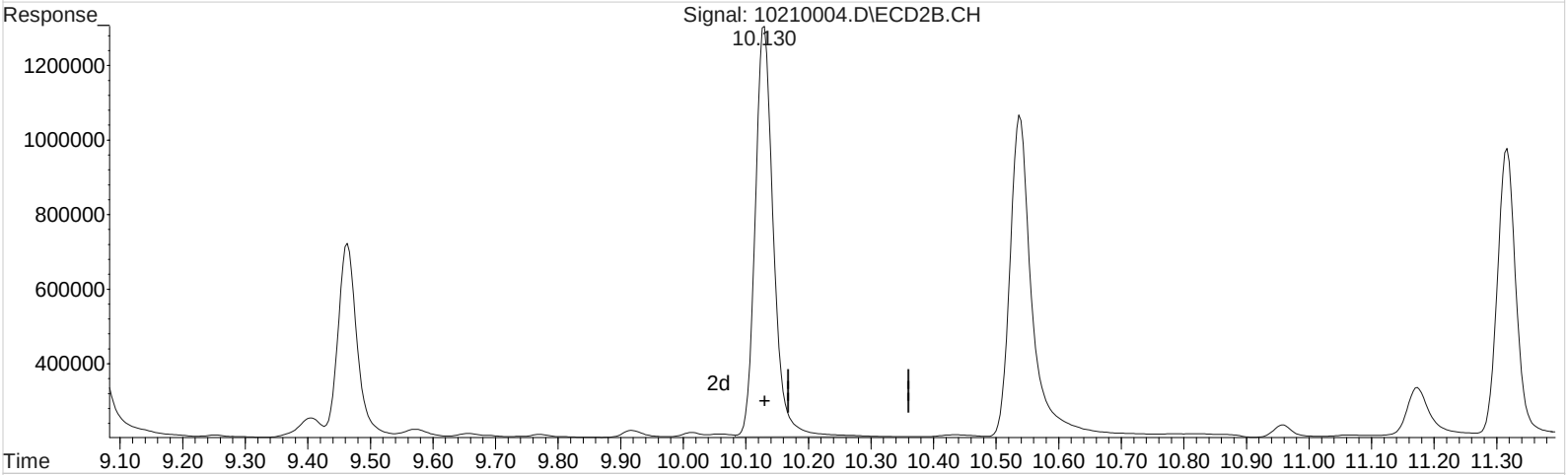
1st UA 10/21/20
2nd 10/22/20

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

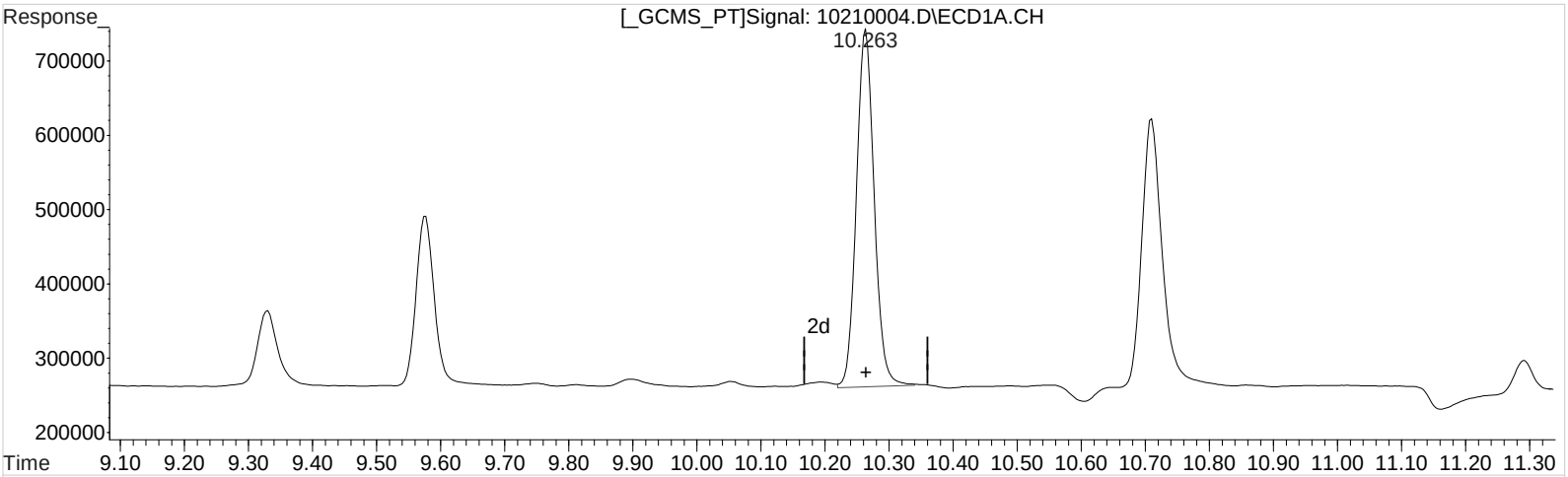
Quantitation Report (Qedit)

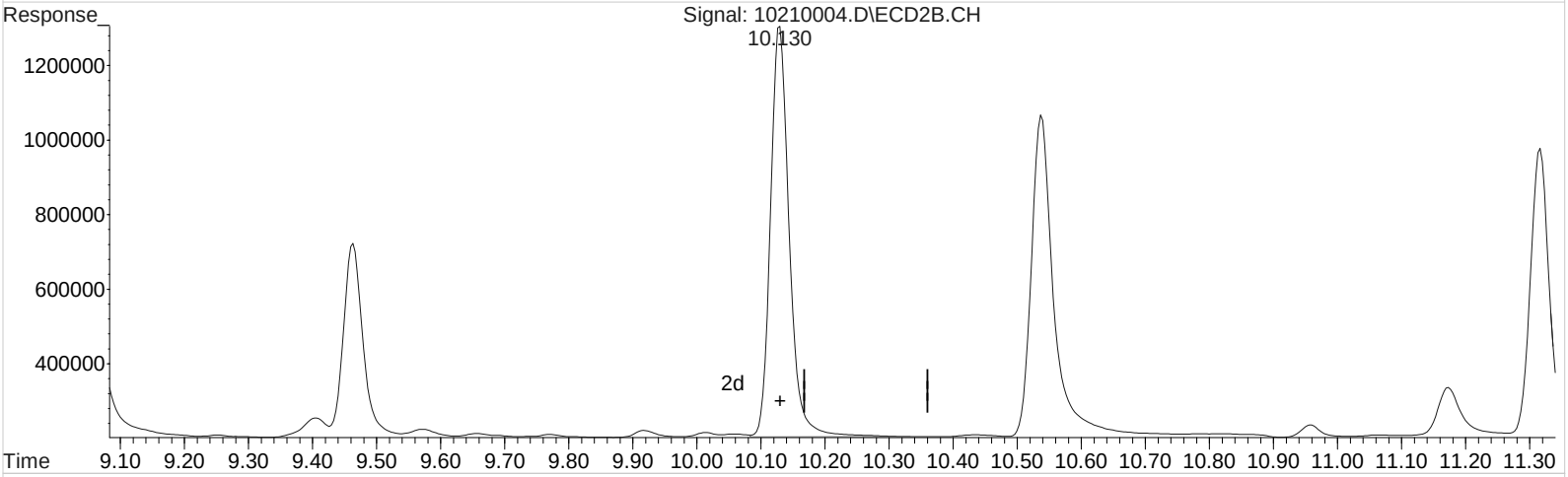
1st UA 10/21/20
2nd 10/22/20

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.

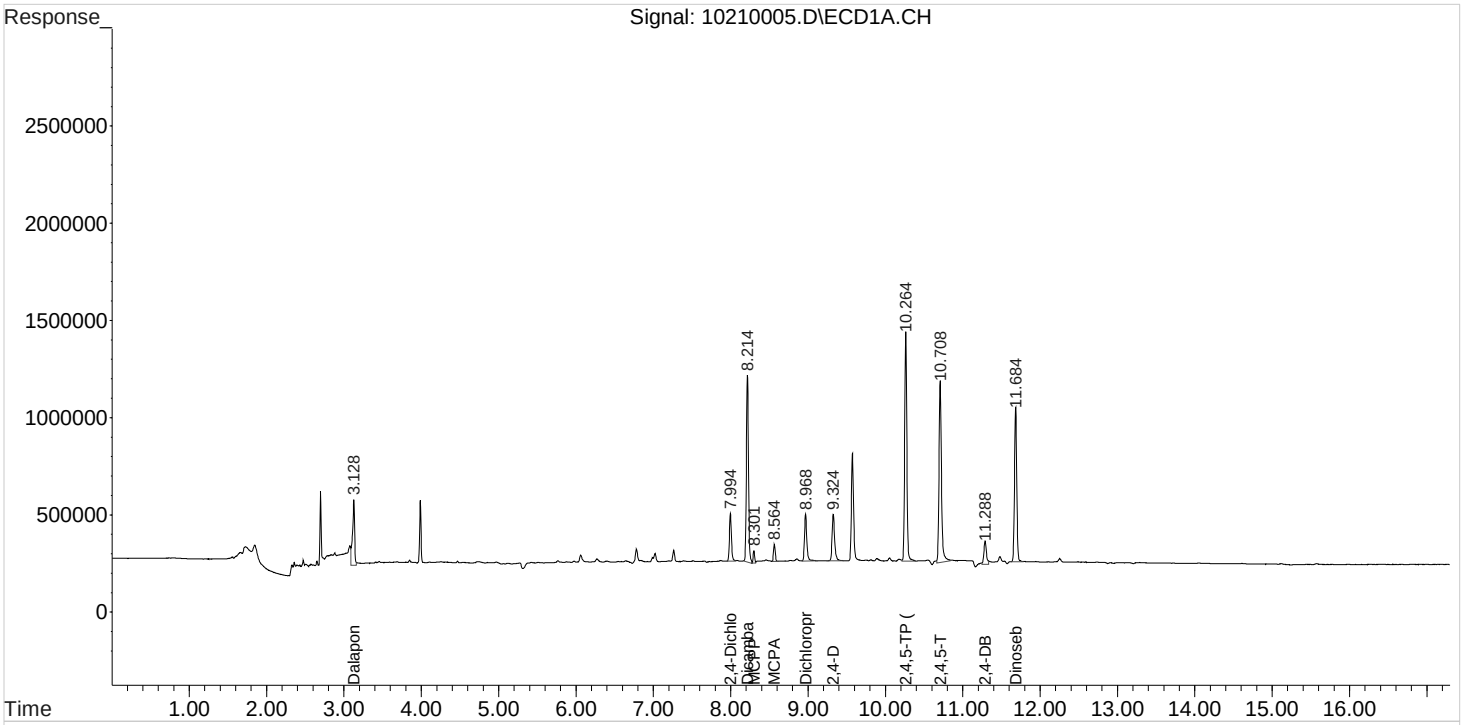
Quantitation Report (QT Reviewed)

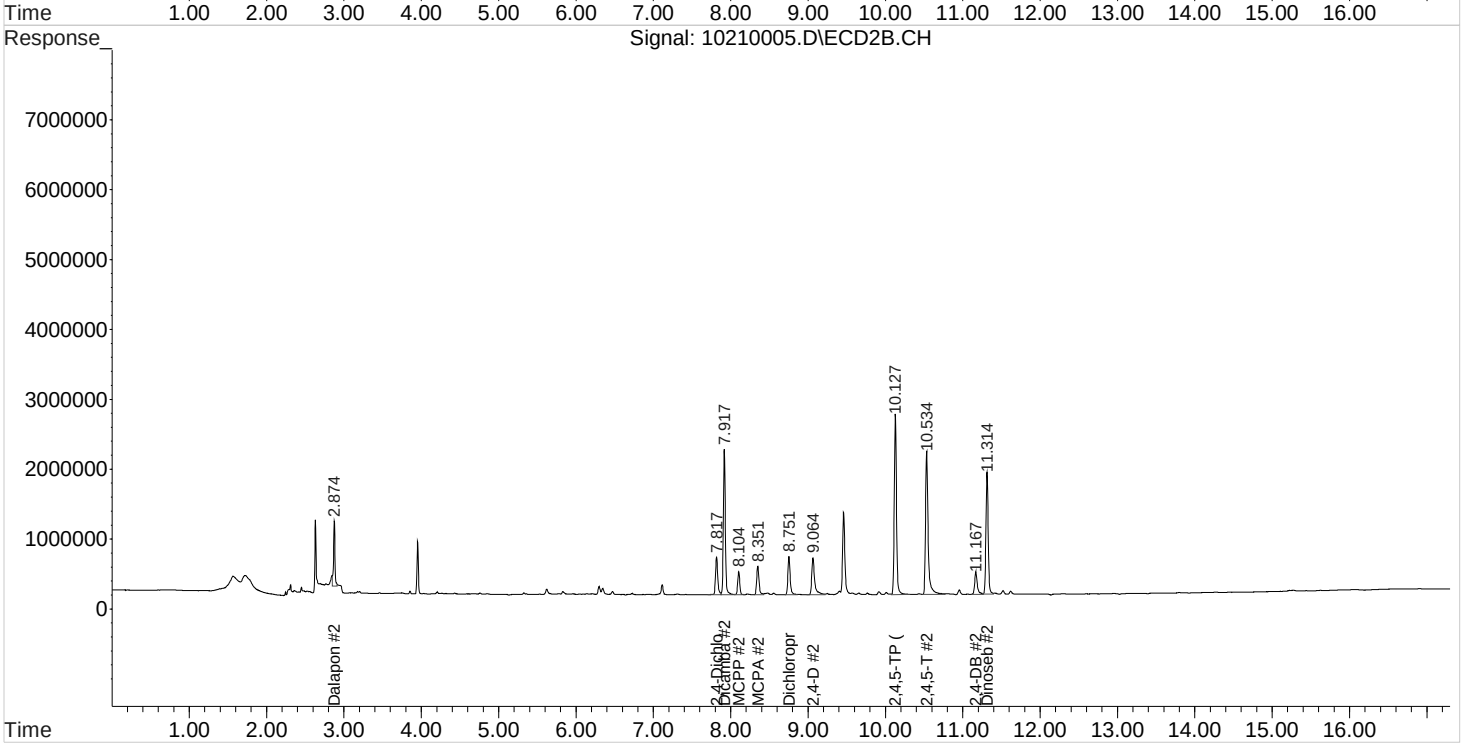
1st UA 10/21/20
2nd 10/22/20

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





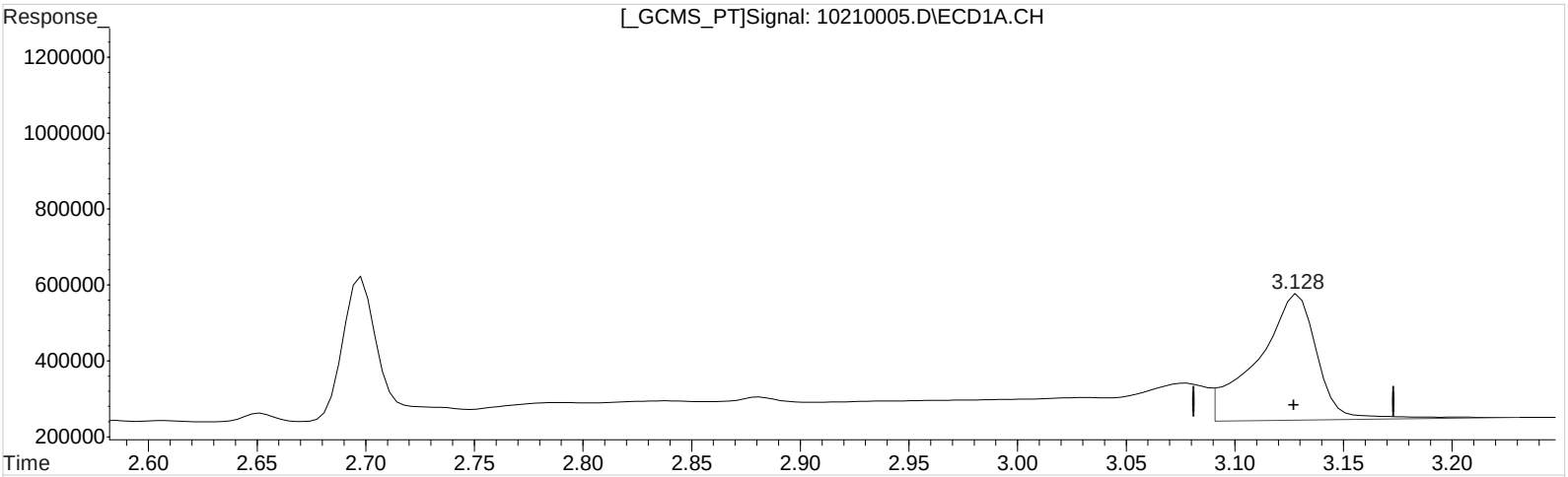
Quantitation Report (Qedit)

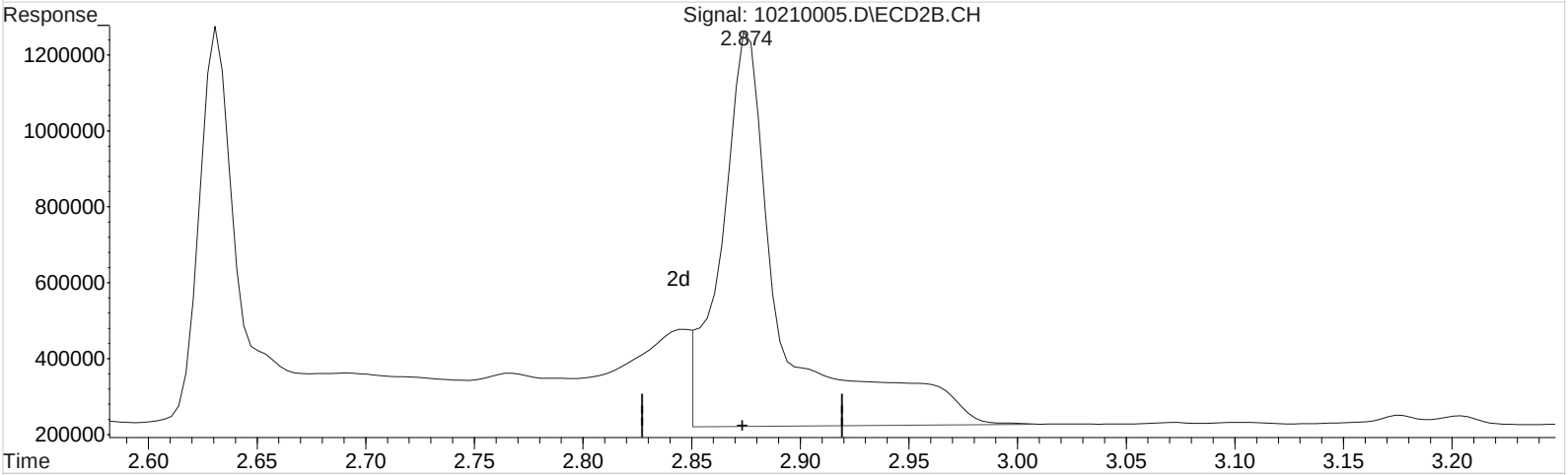
1st UA 10/21/20
2nd 10/22/20

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

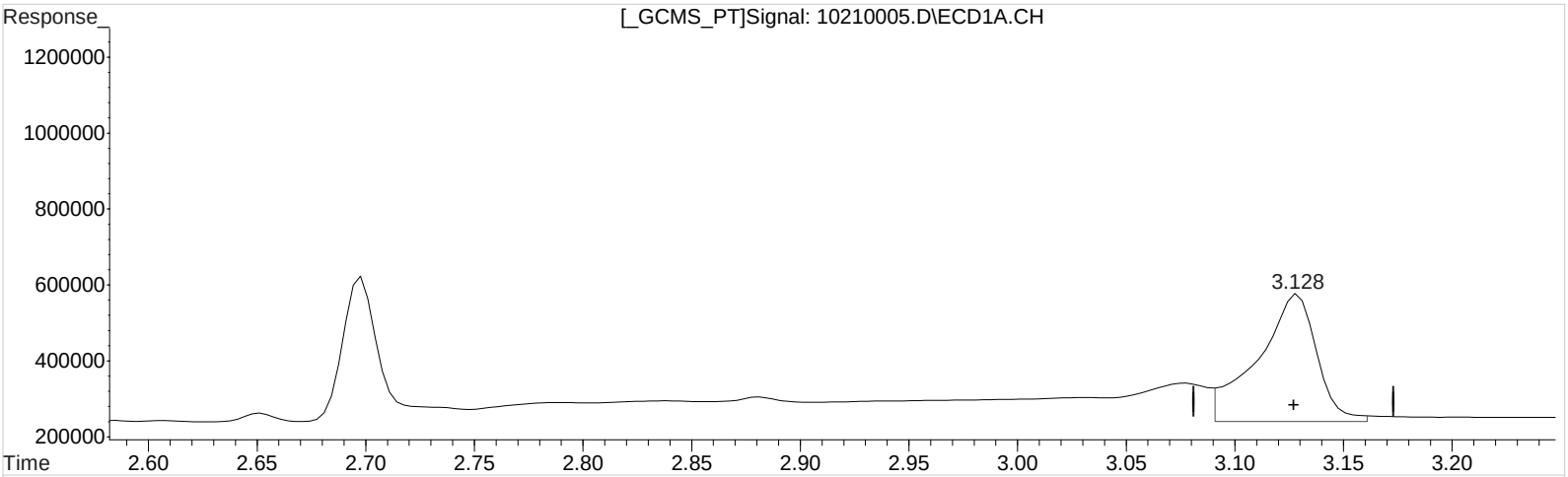
Quantitation Report (Qedit)

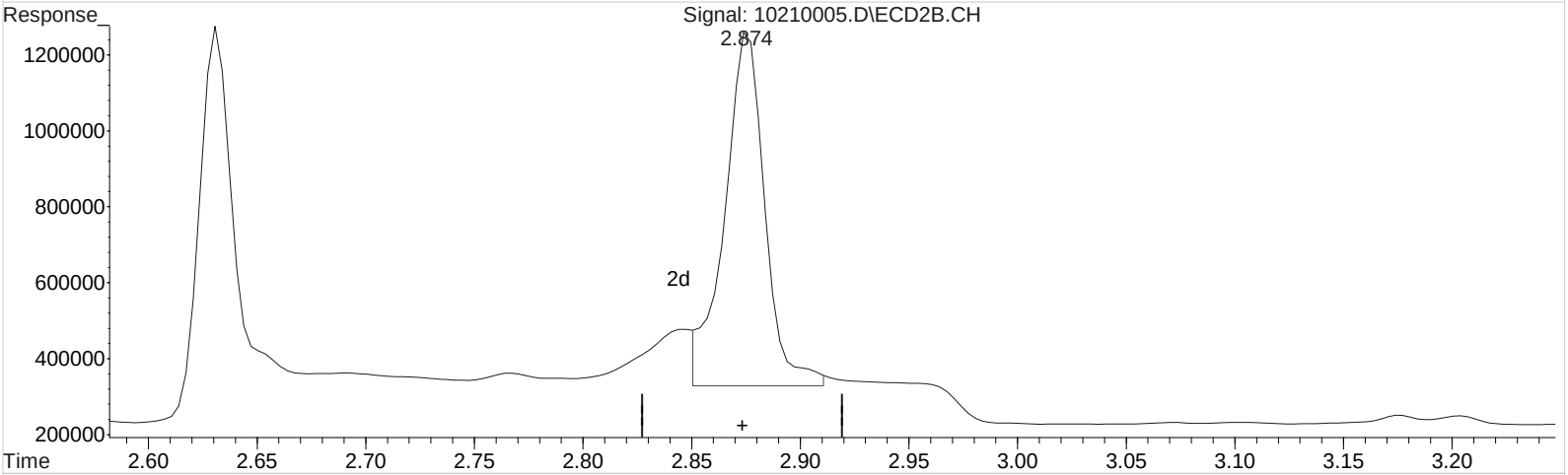
1st UA 10/21/20
2nd 10/22/20

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

(1) Dalapon #2 (m)

2.874min 25.104 ppb m

response 1185641

Manual Integration:

After

Baseline/Shoulder

10/21/20

(+) = Expected Retention Time

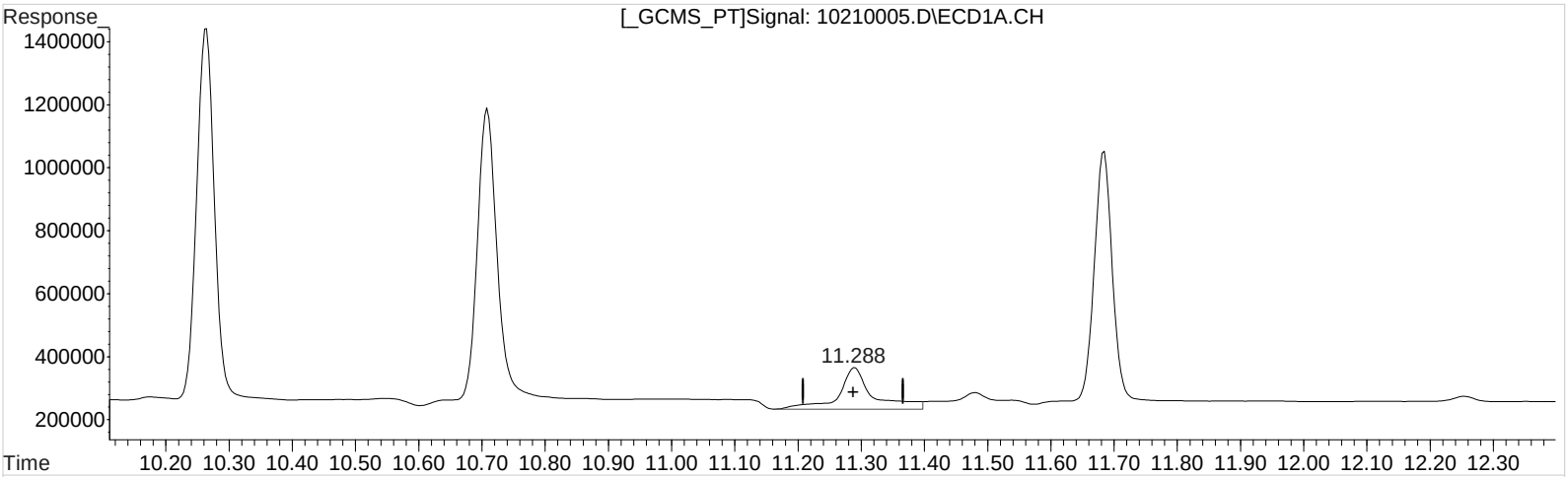
Quantitation Report (Qedit)

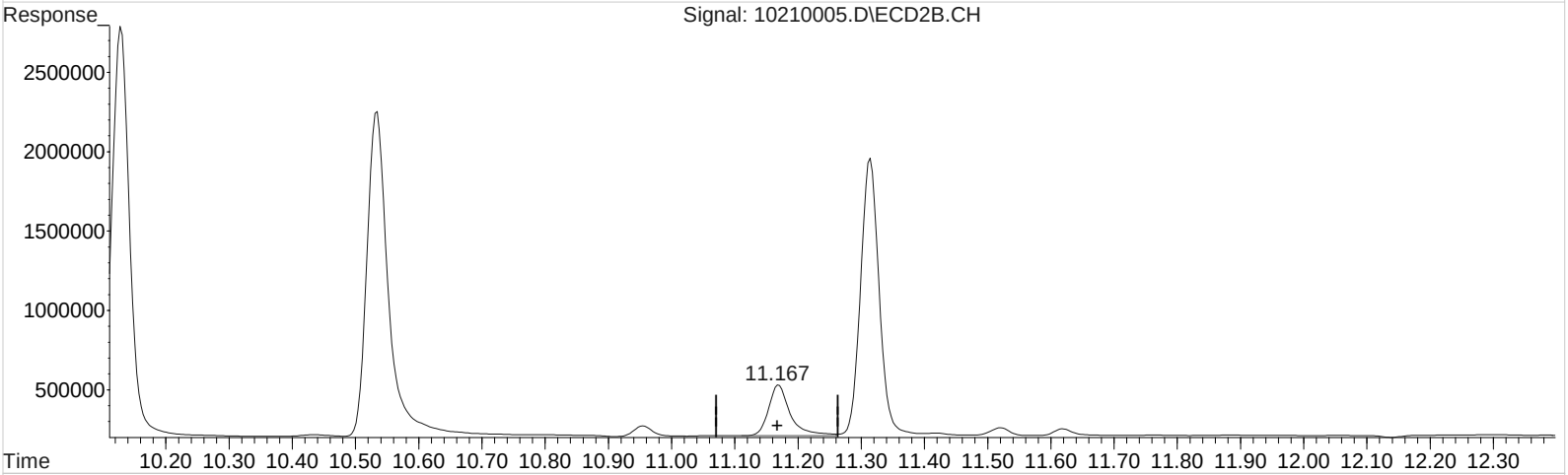
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\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

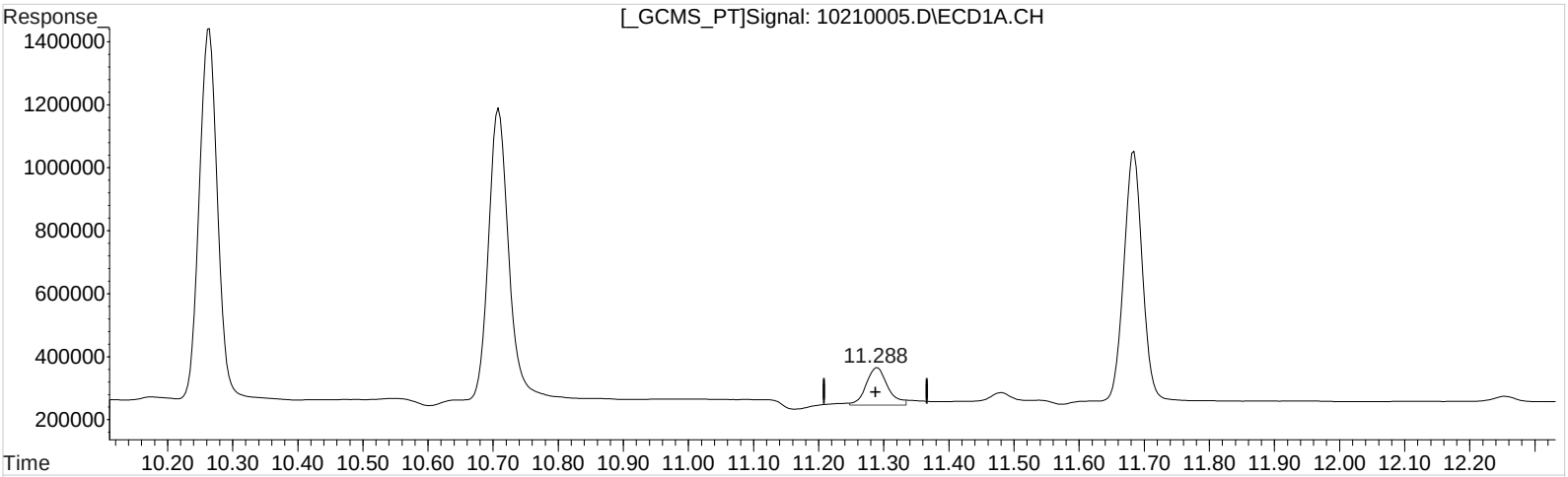
Quantitation Report (Qedit)

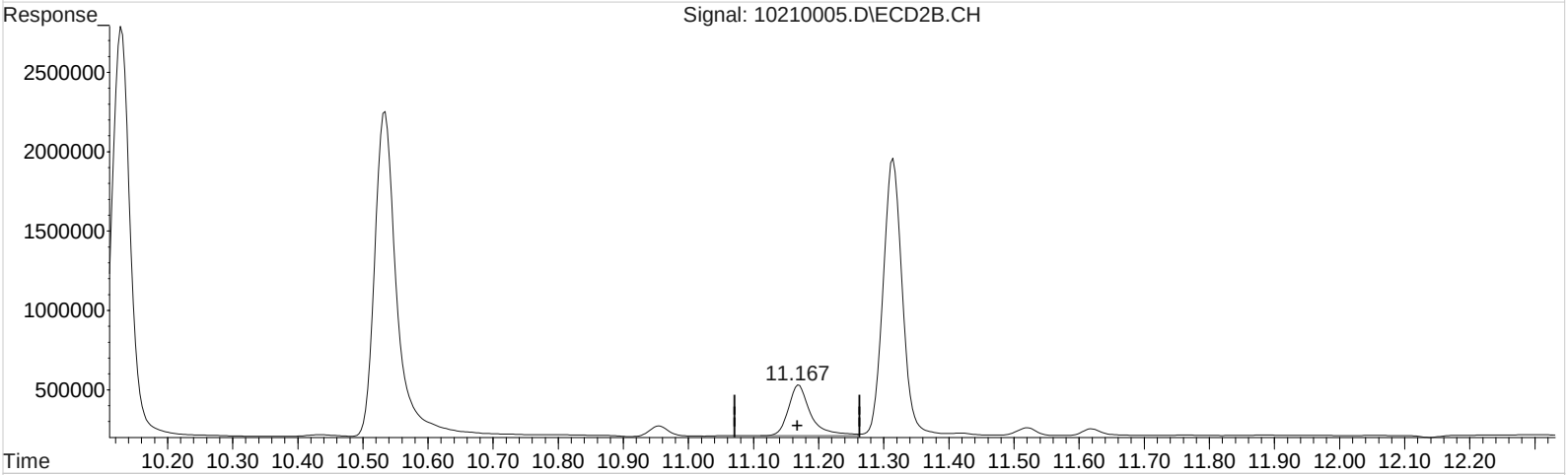
1st UA 10/21/20
2nd 10/22/20

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

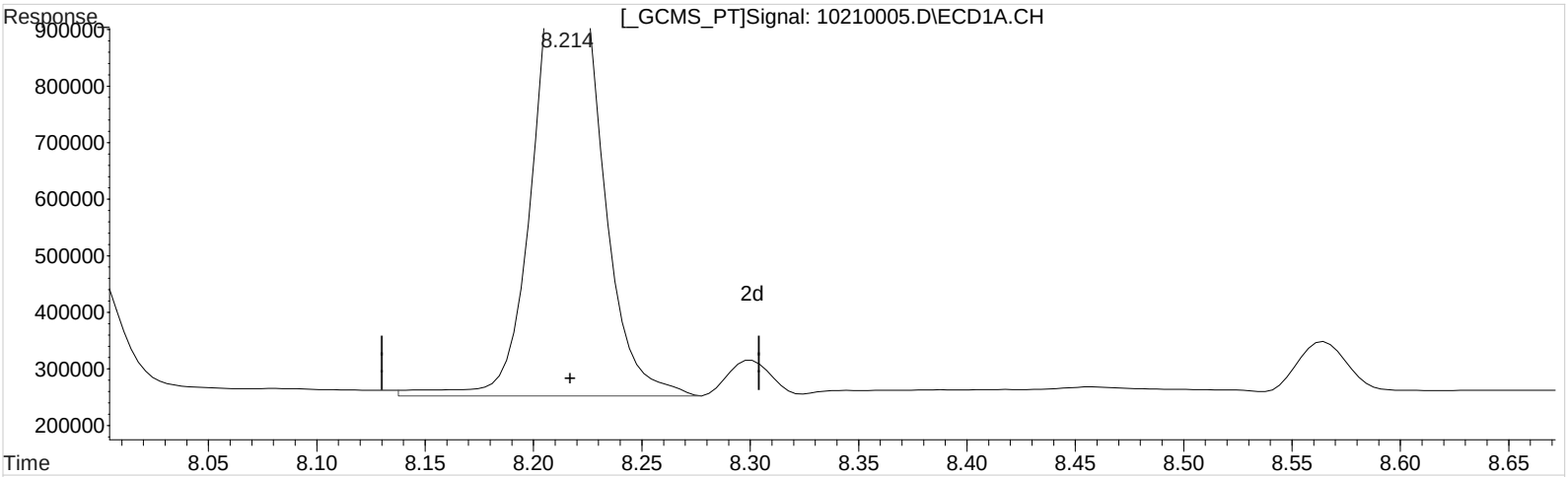
Quantitation Report (Qedit)

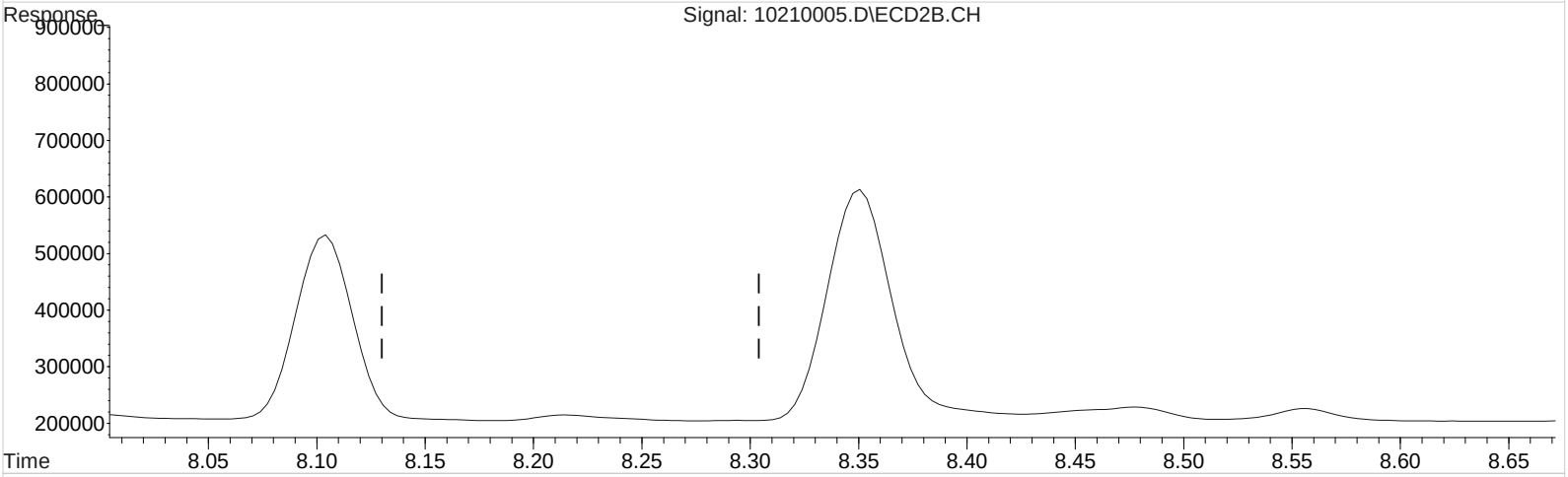
1st UA 10/21/20
2nd 10/22/20

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

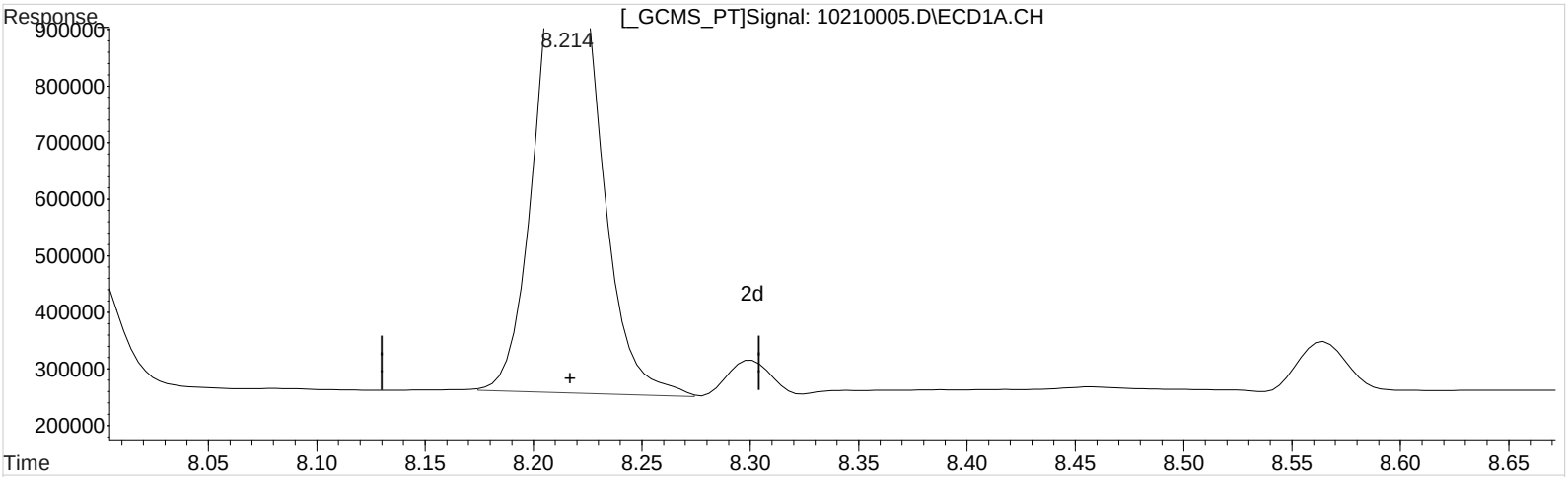
Quantitation Report (Qedit)

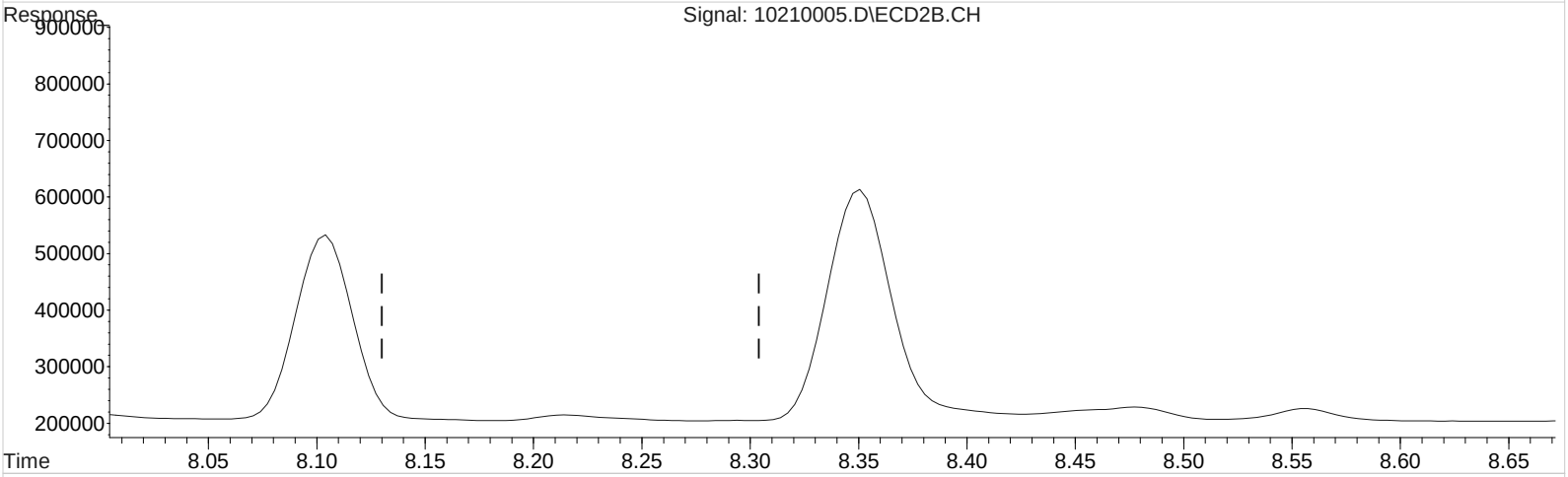
1st UA 10/21/20
2nd 10/22/20

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

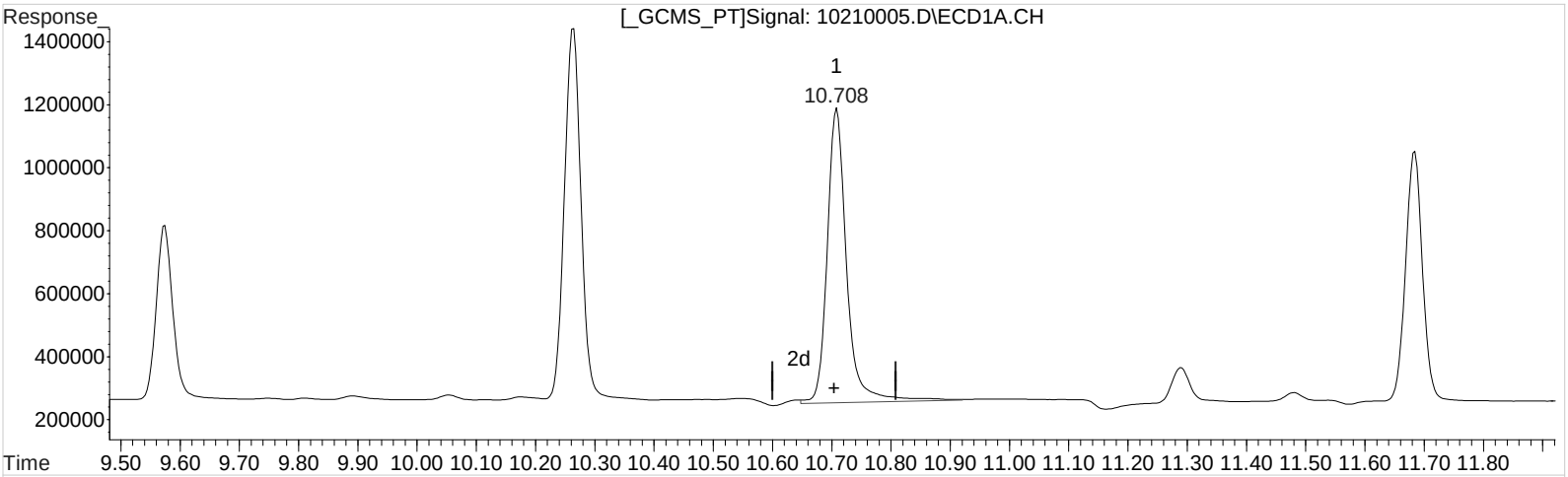
Quantitation Report (Qedit)

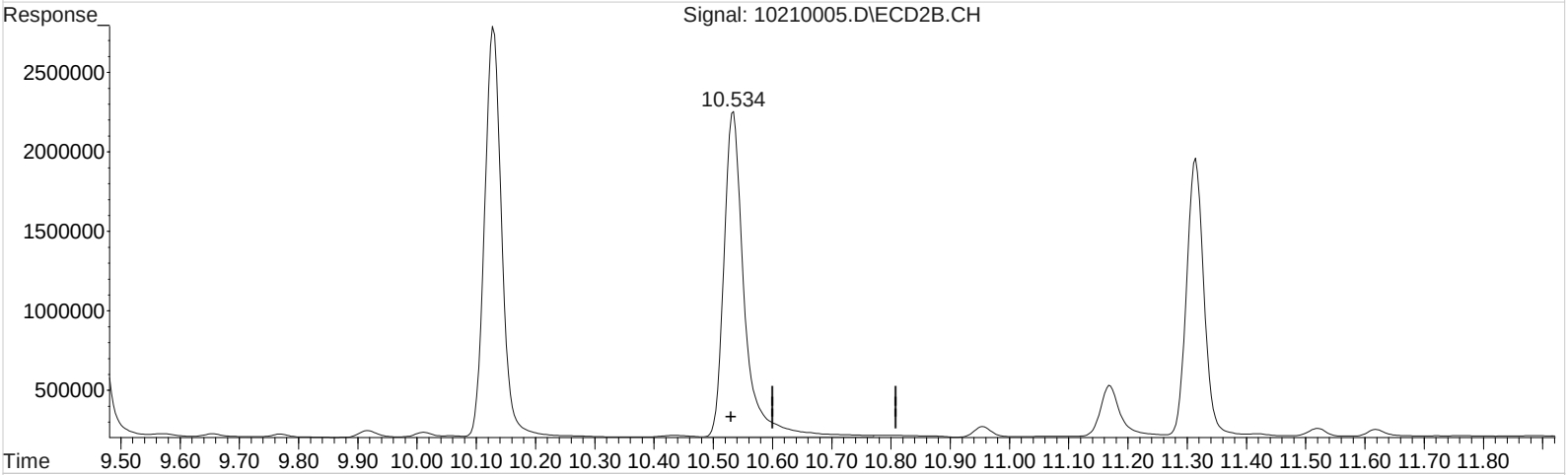
1st UA 10/21/20
2nd 10/22/20

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

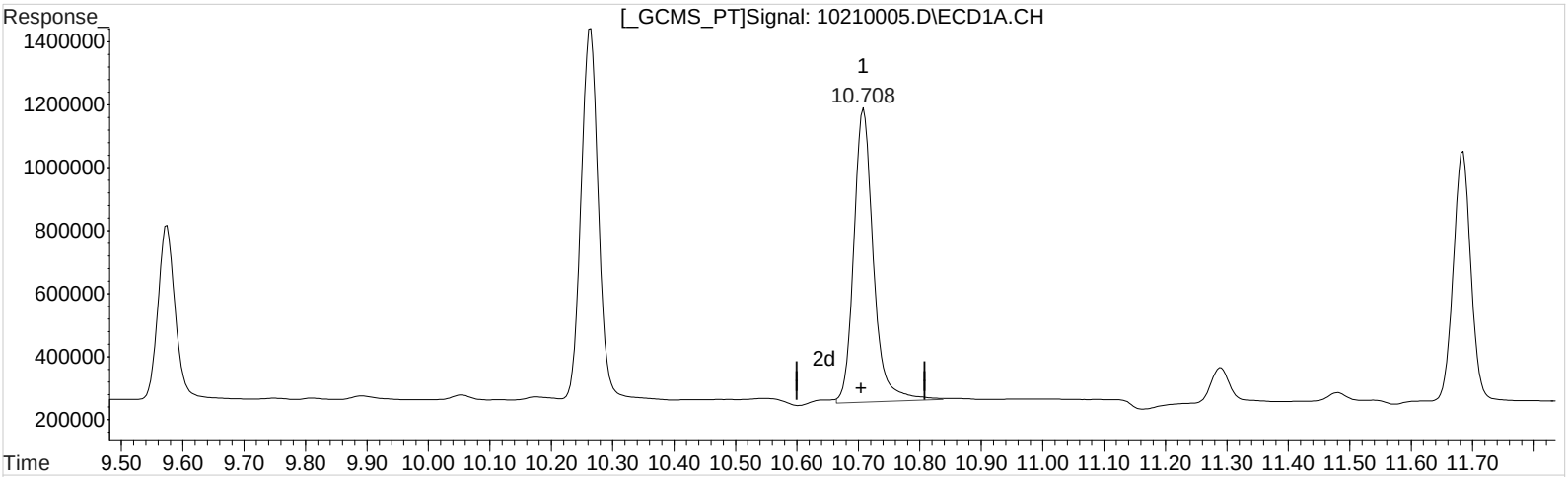
Quantitation Report (Qedit)

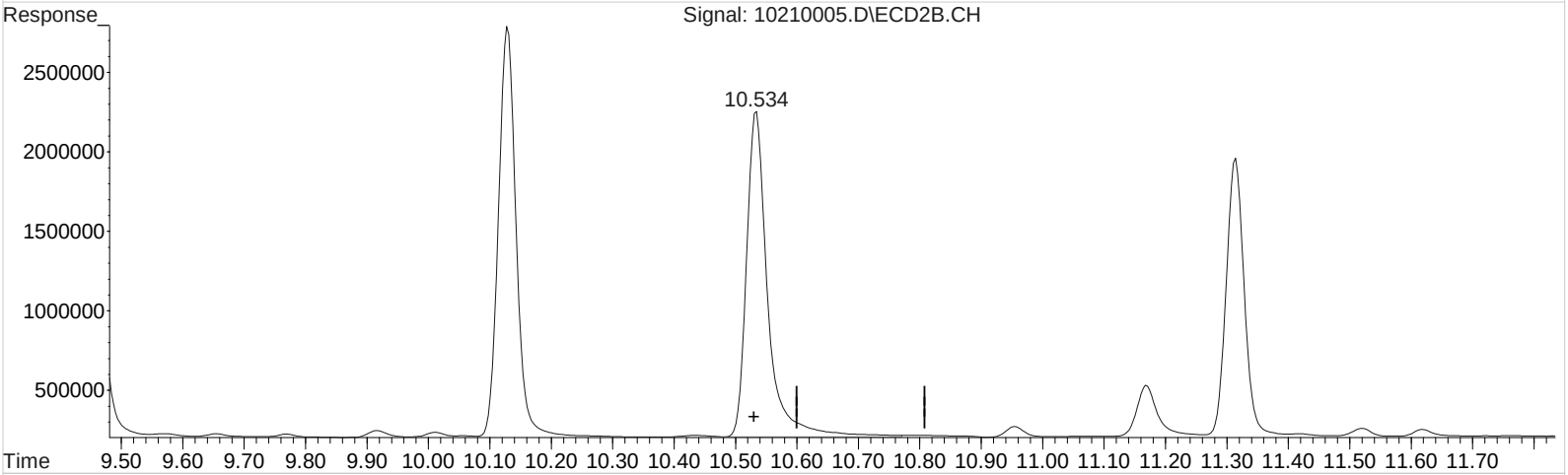
1st UA 10/21/20
2nd 10/22/20

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.

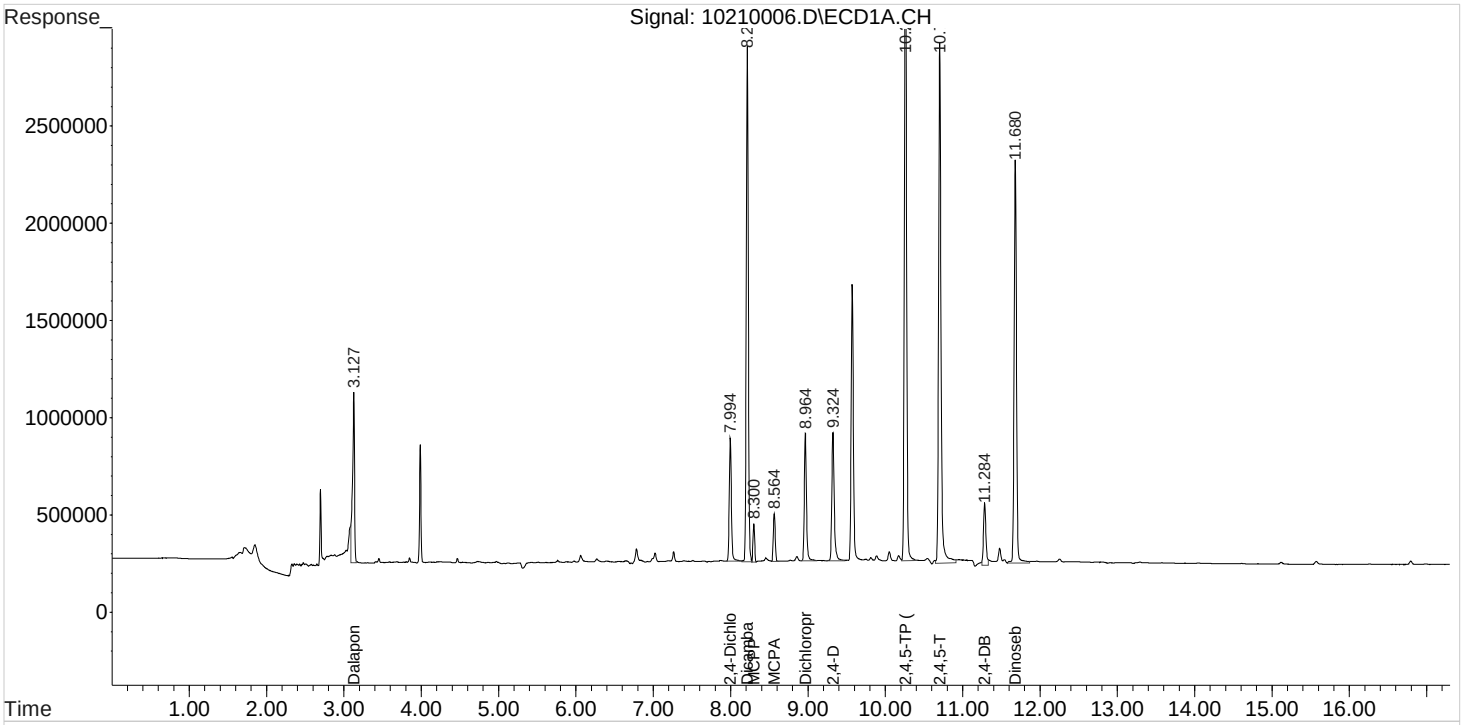
Quantitation Report (QT Reviewed)

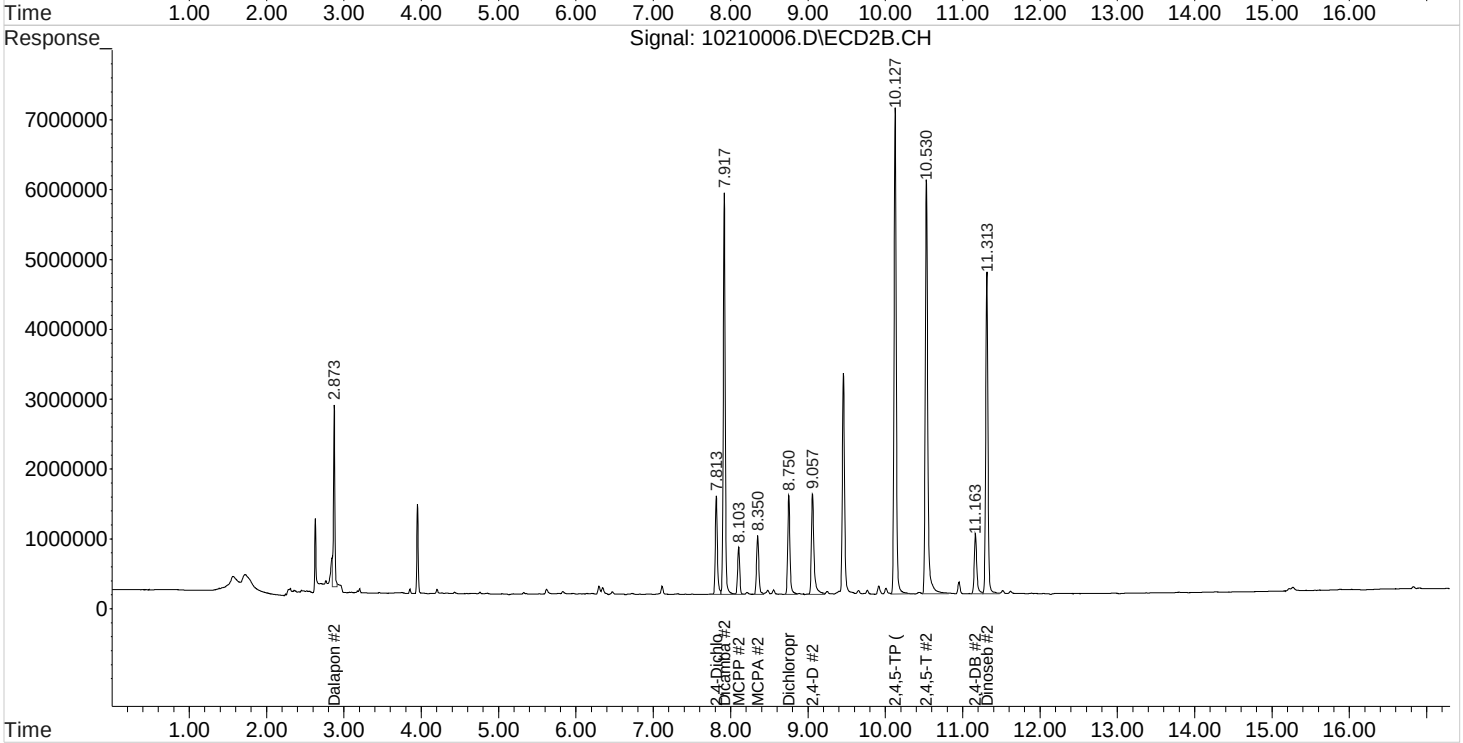
1st UA 10/21/20
2nd 10/22/20

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





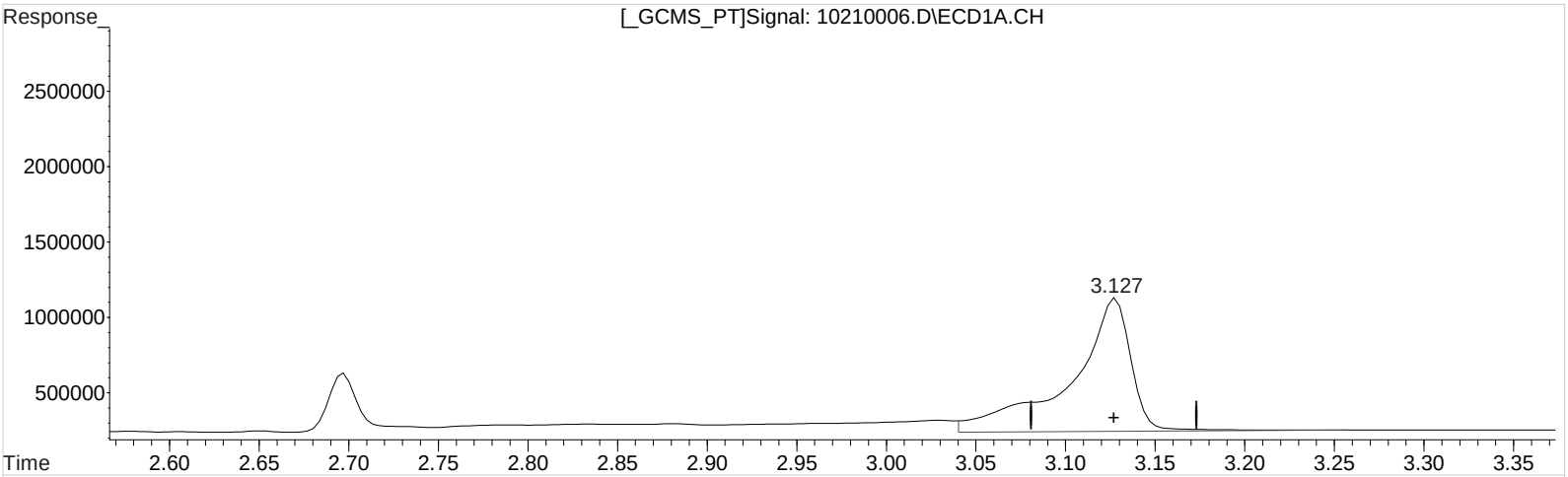
Quantitation Report (Qedit)

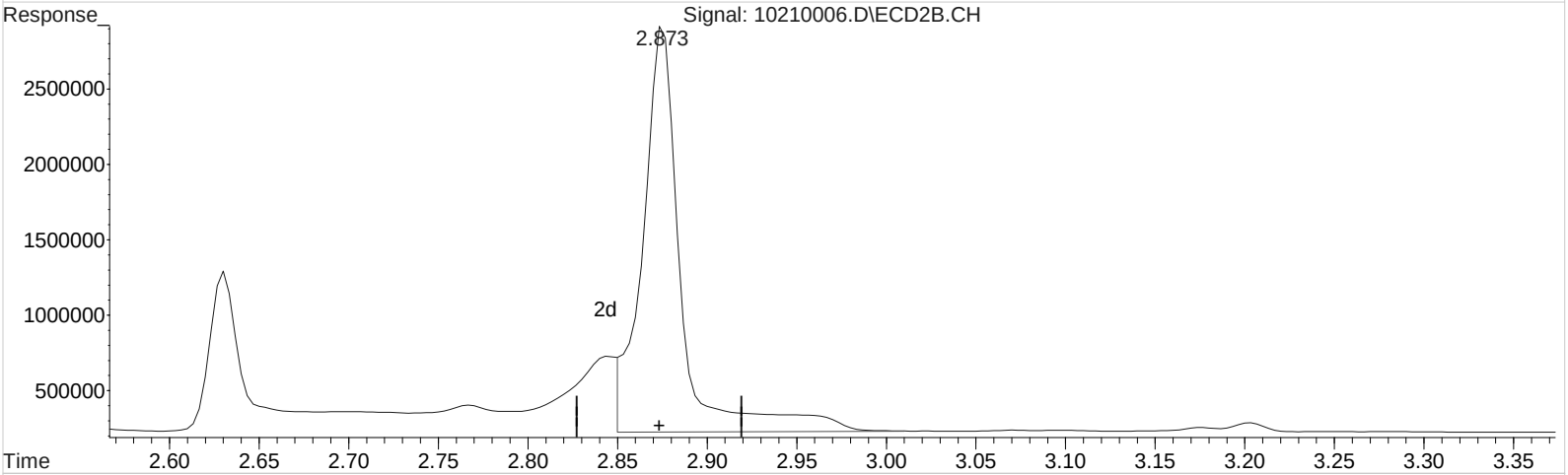
1st UA 10/21/20
2nd 10/22/20

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

(1) Dalapon #2 (m)

2.873min 84.167 ppb

response 3979368

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

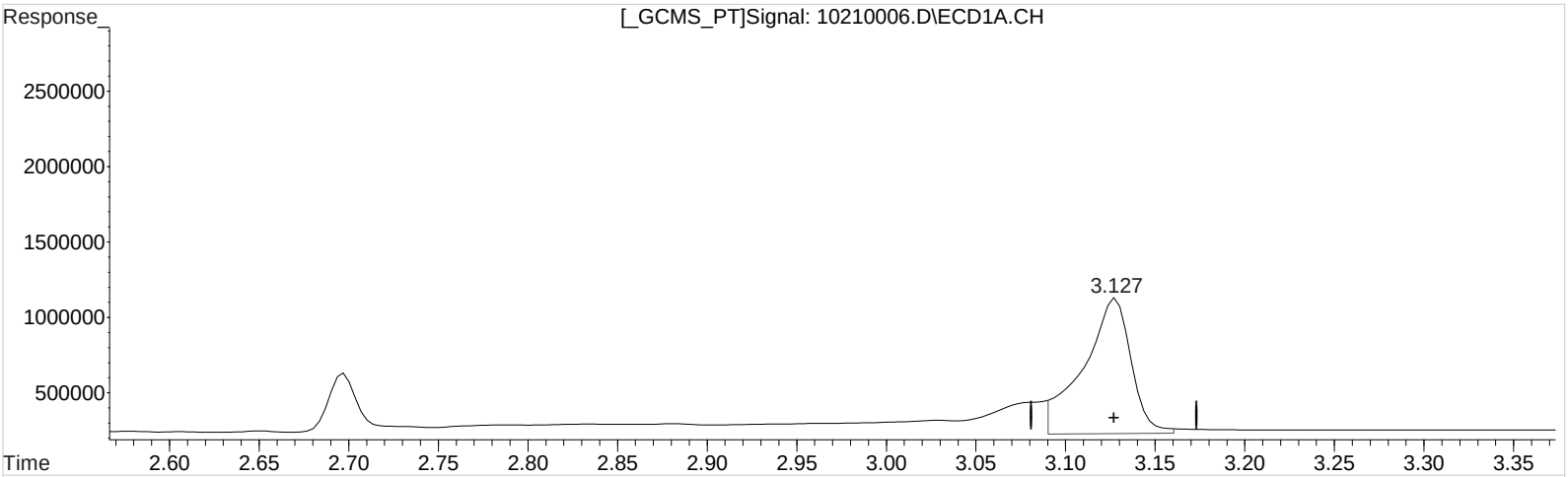
Quantitation Report (Qedit)

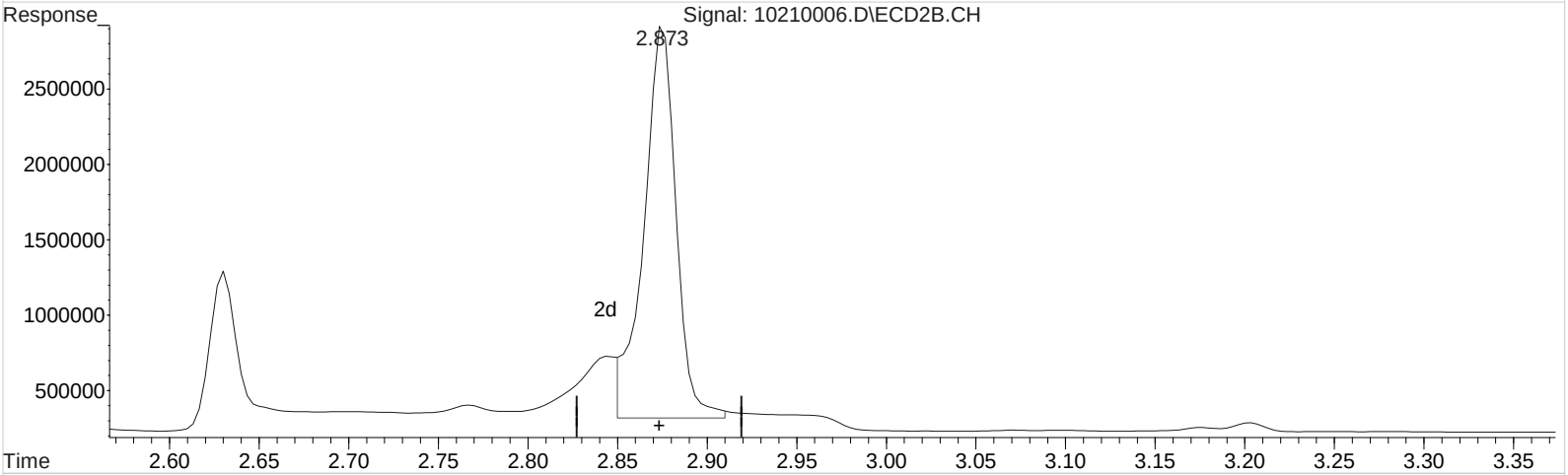
1st UA 10/21/20
2nd 10/22/20

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

(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

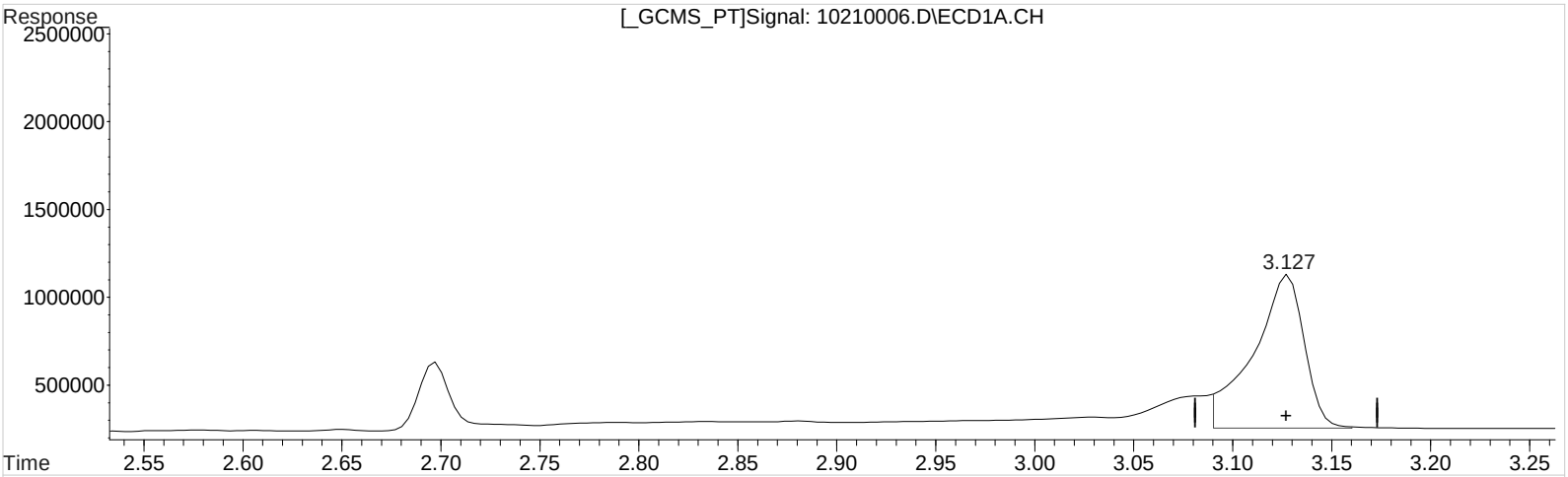
Quantitation Report (Qedit)

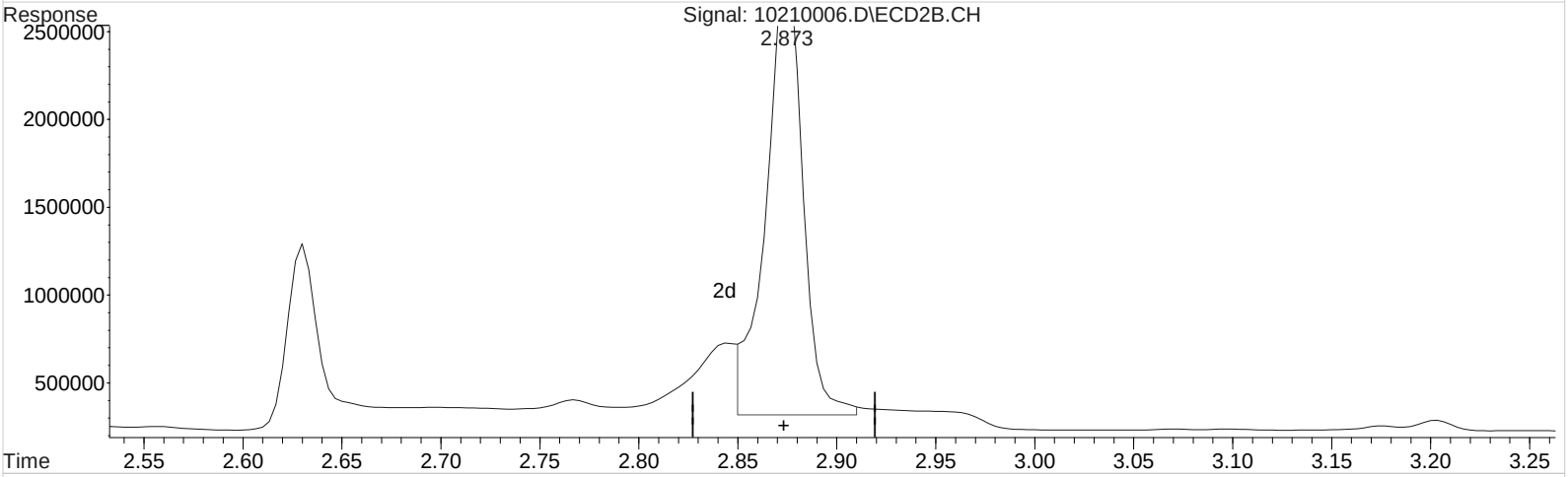
1st UA 10/21/20
2nd 10/22/20

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

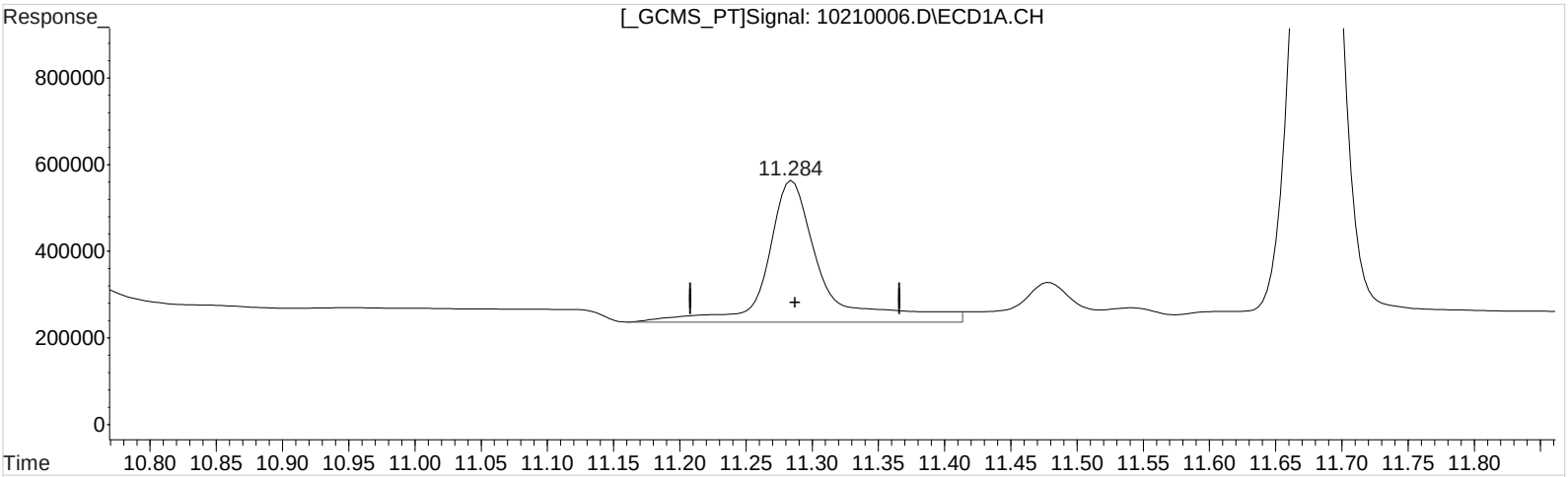
Quantitation Report (Qedit)

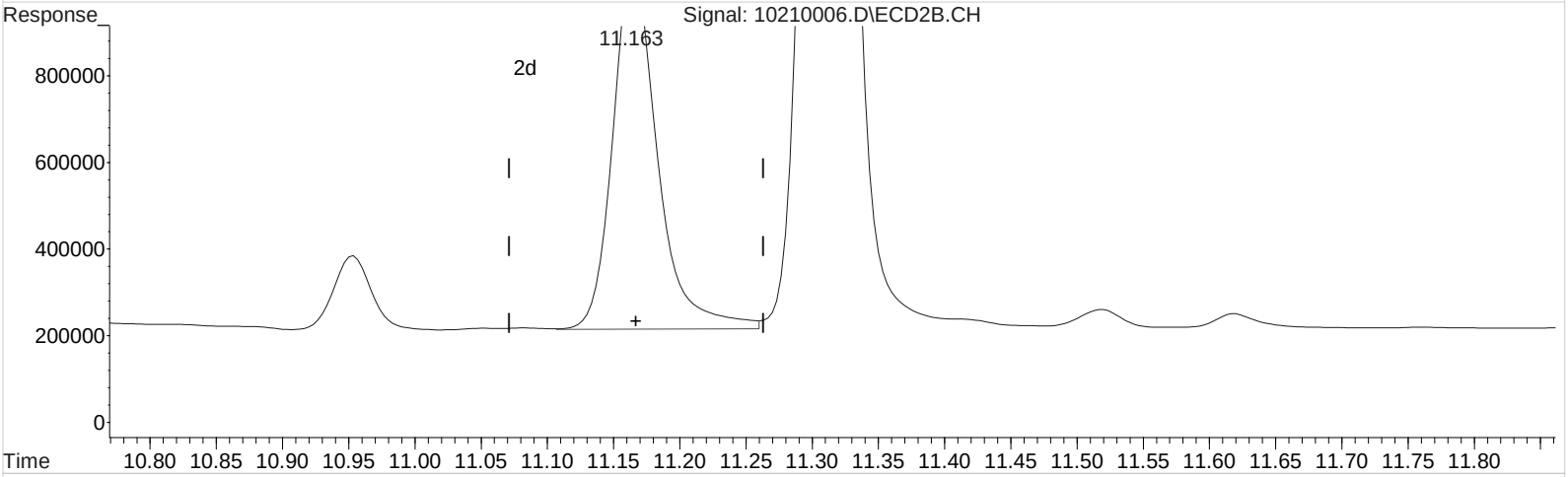
1st UA 10/21/20
2nd 10/22/20

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

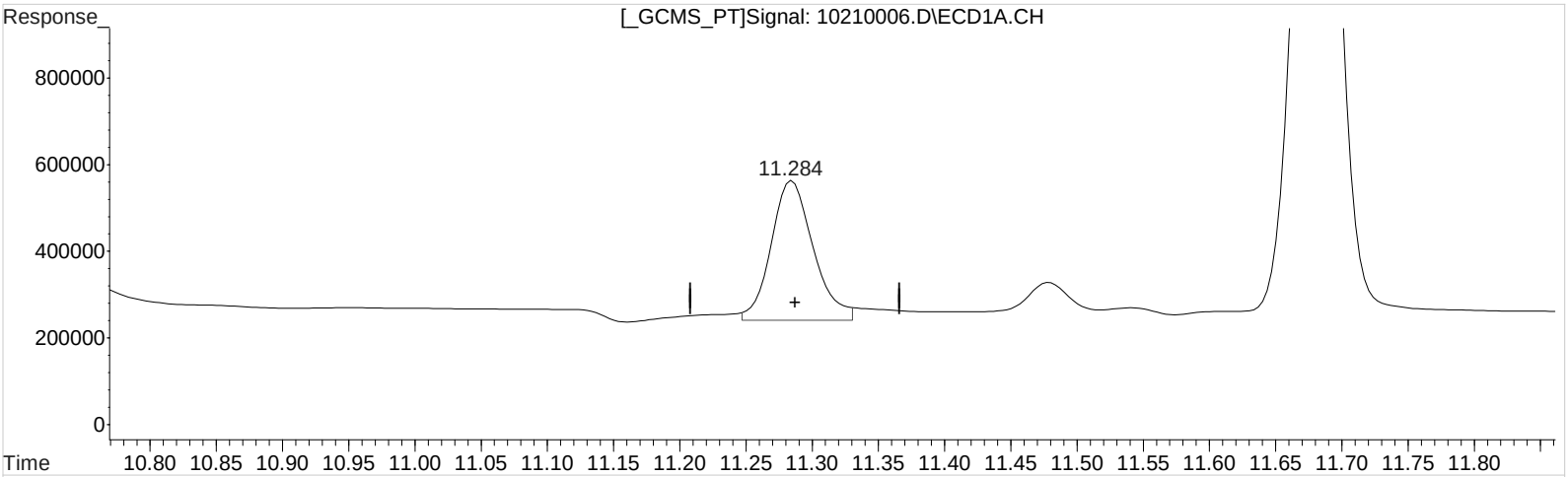
Quantitation Report (Qedit)

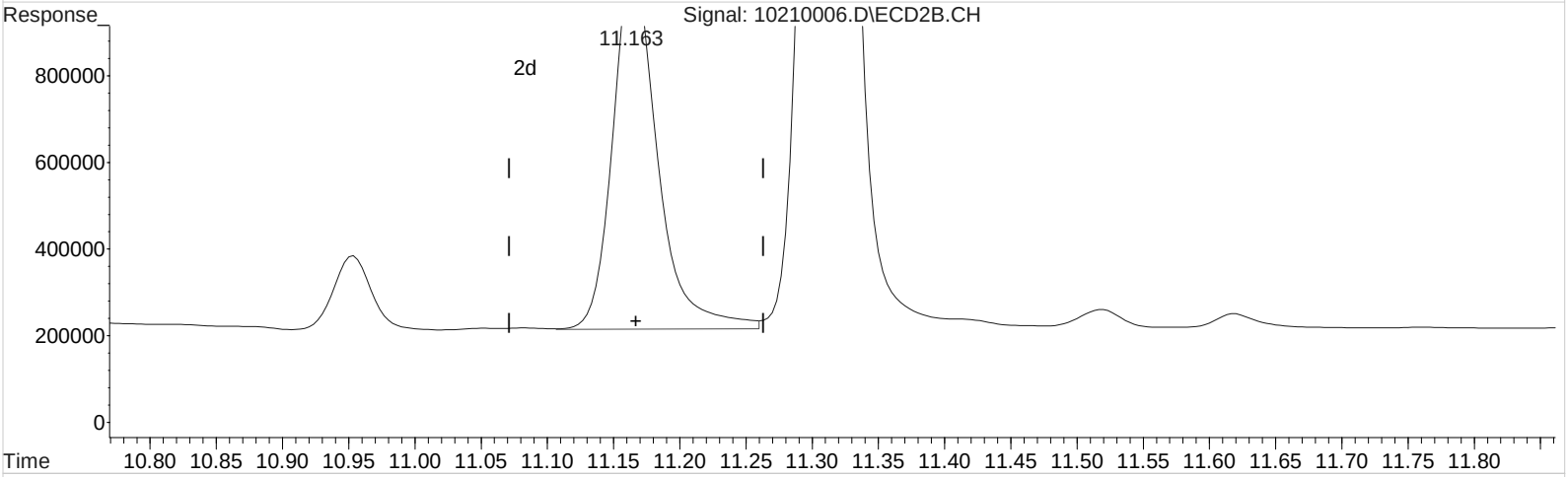
1st UA 10/21/20
2nd 10/22/20

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.

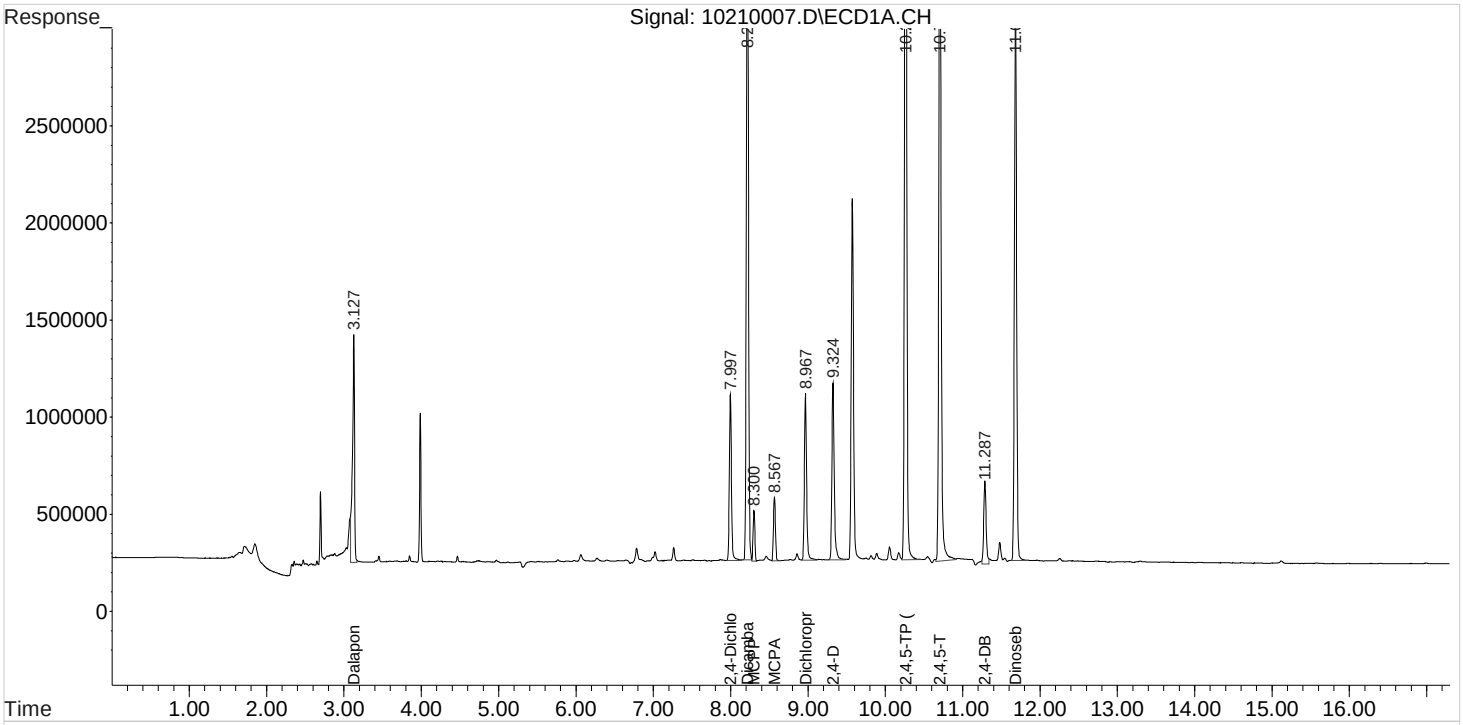
Quantitation Report (QT Reviewed)

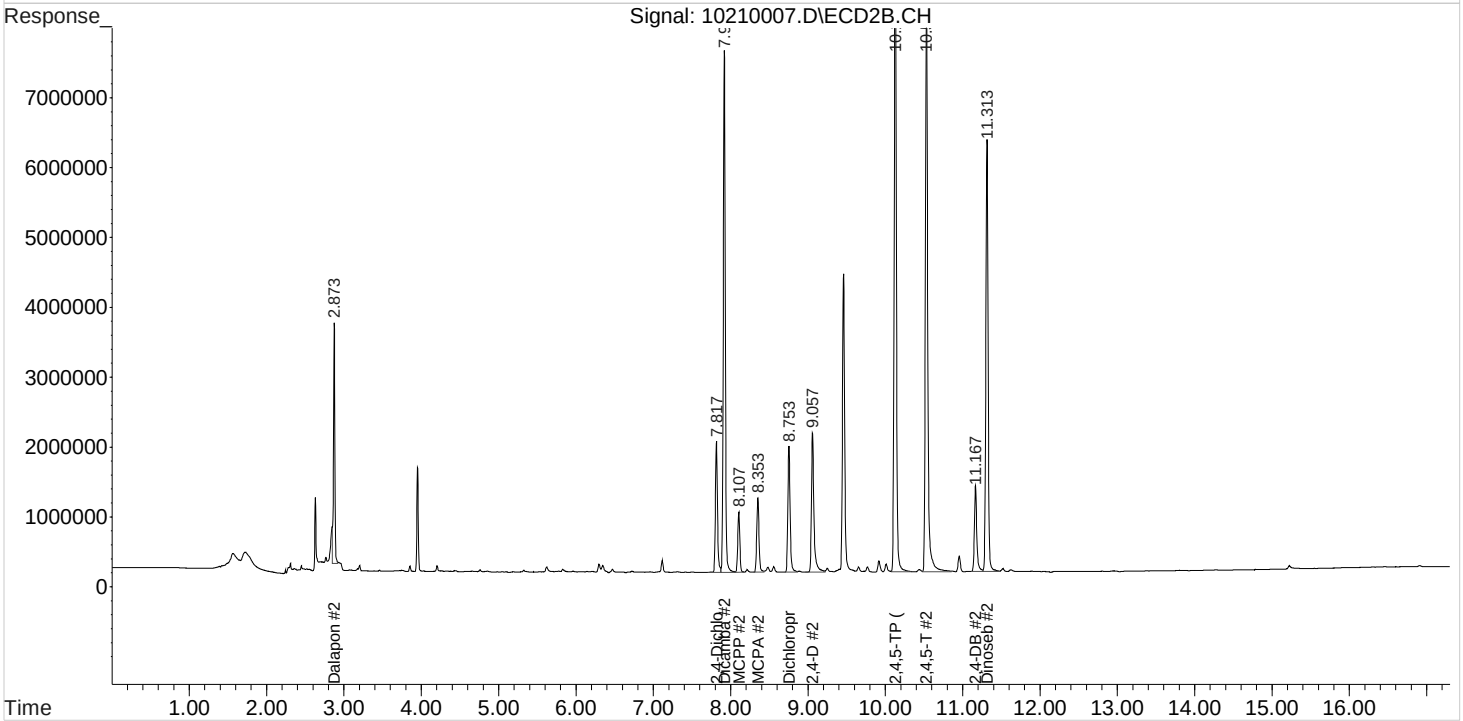
1st UA 10/21/20
2nd 10/22/20

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





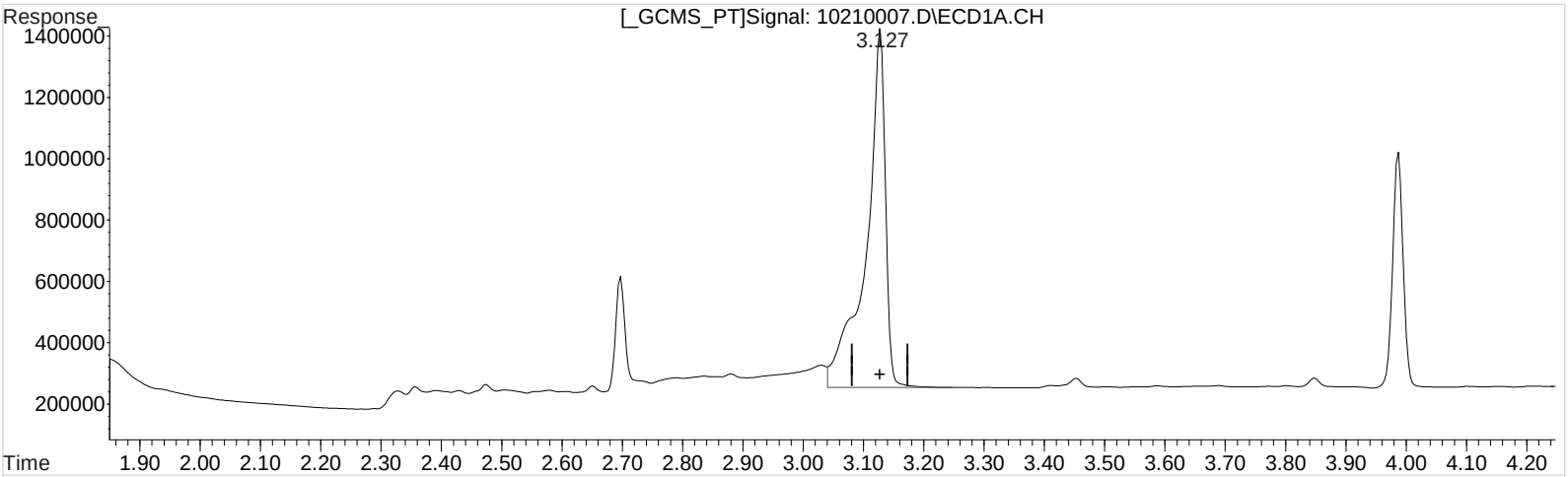
Quantitation Report (Qedit)

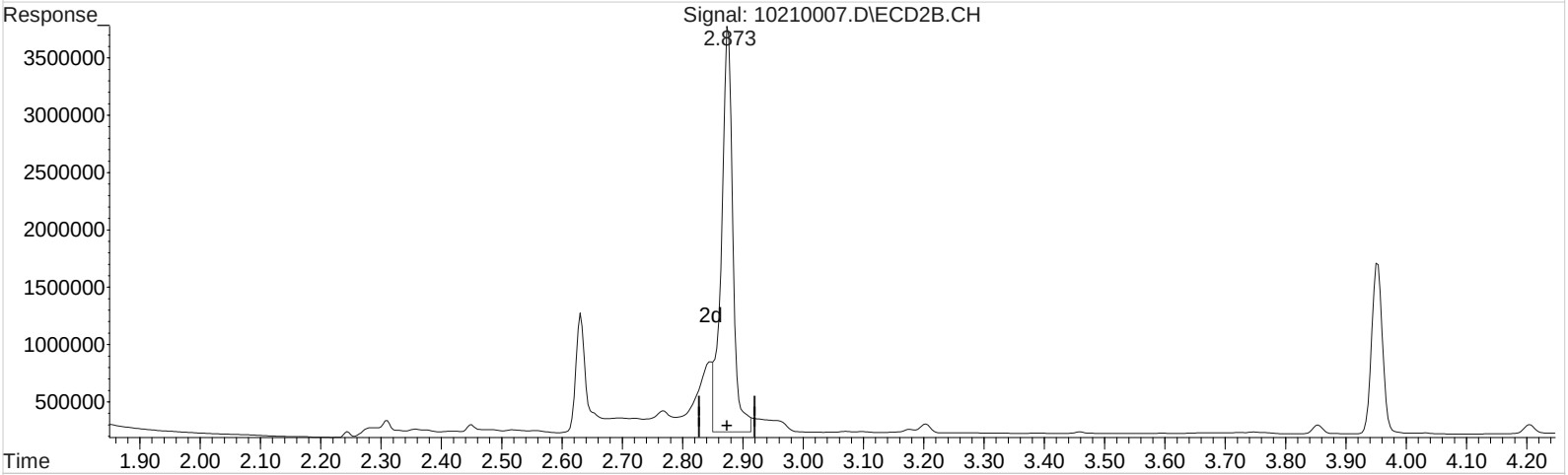
1st UA 10/21/20
2nd 10/22/20

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

(1) Dalapon #2 (m)

2.873min 90.173 ppb m

response 4587035

Manual Integration:

After

Baseline/Shoulder

10/21/20

(+) = Expected Retention Time

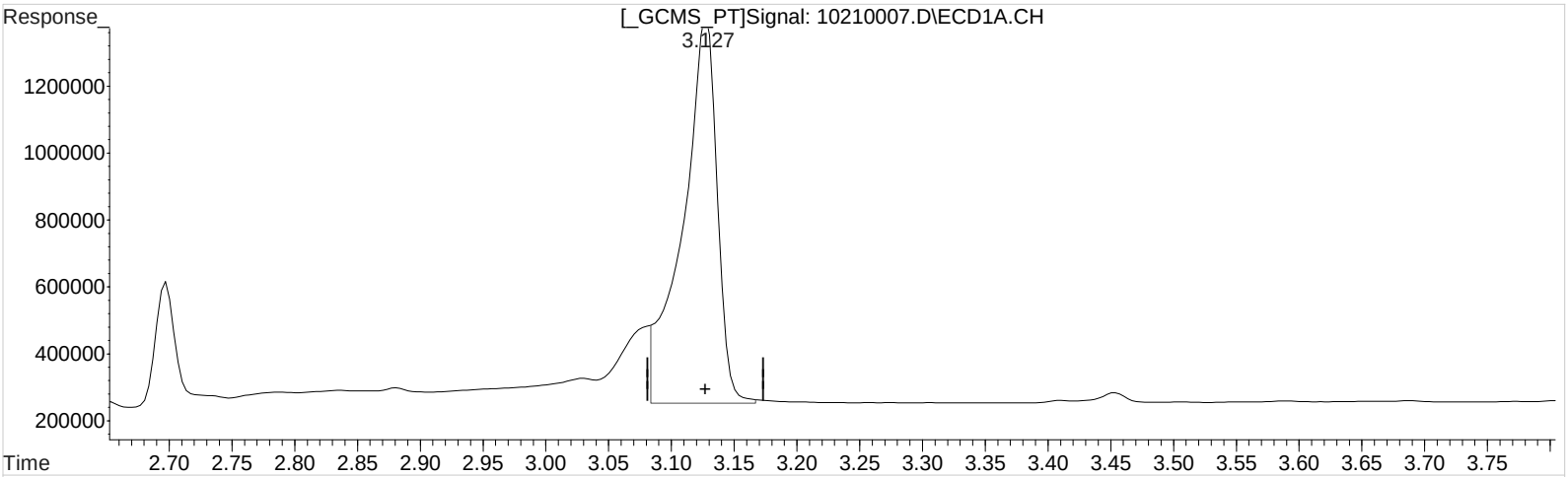
Quantitation Report (Qedit)

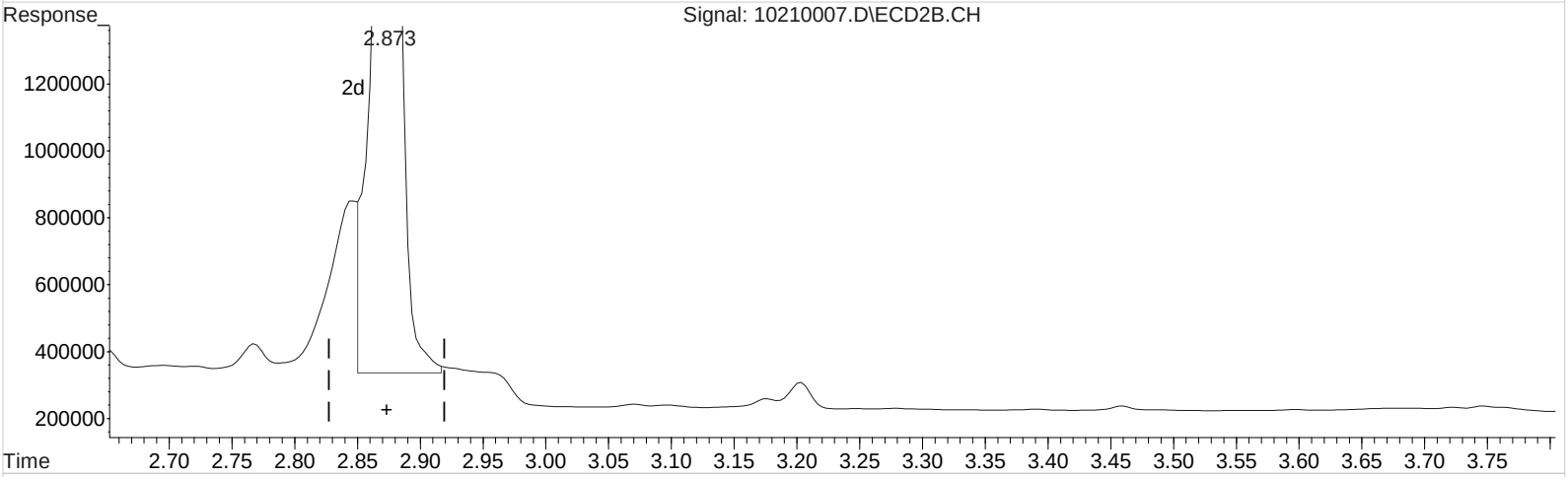
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\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

(1) Dalapon #2 (m)

2.873min 90.872 ppb m

response 4219125

Manual Integration:

After

Baseline/Shoulder

10/21/20

(+) = Expected Retention Time

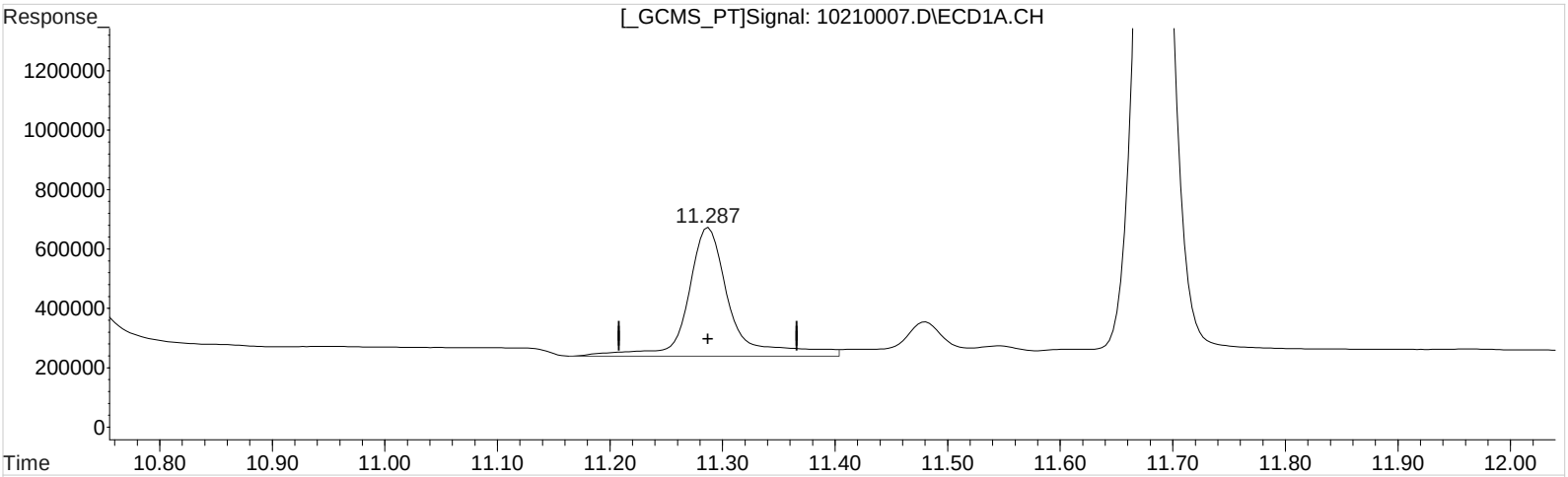
Quantitation Report (Qedit)

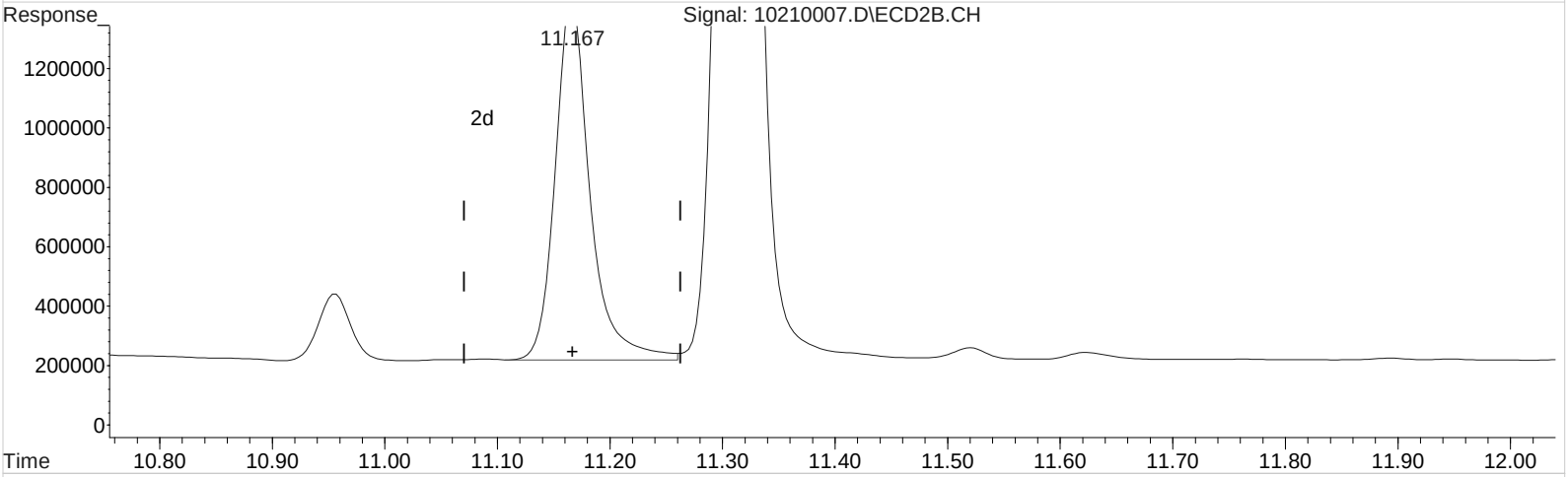
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\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

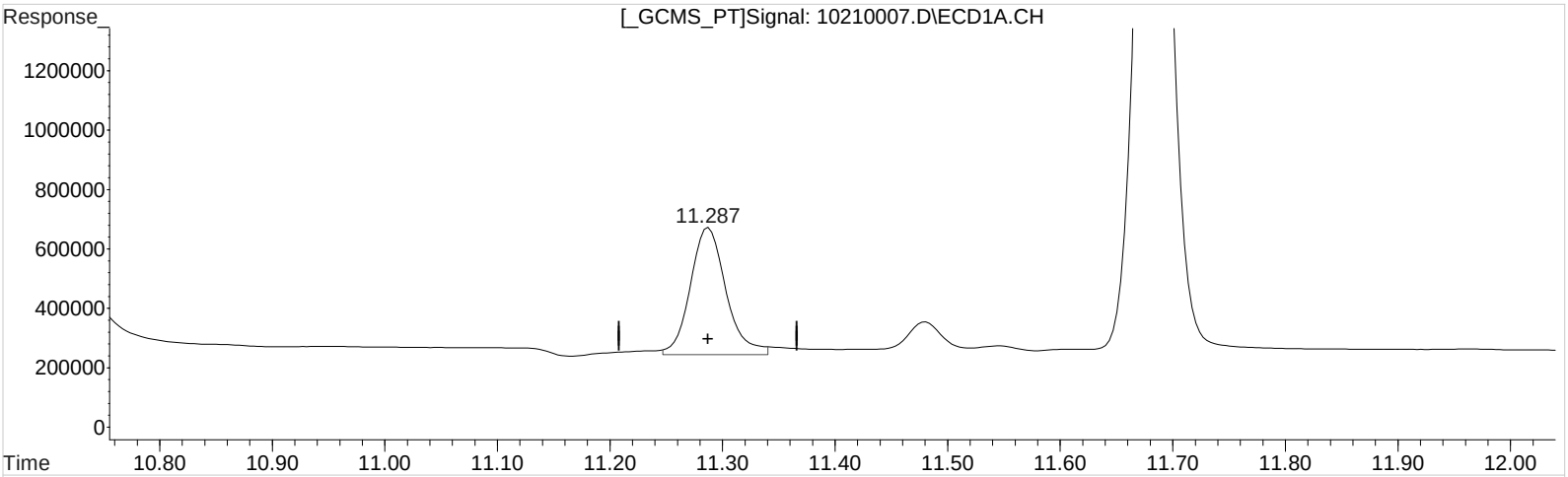
(+) = Expected Retention Time

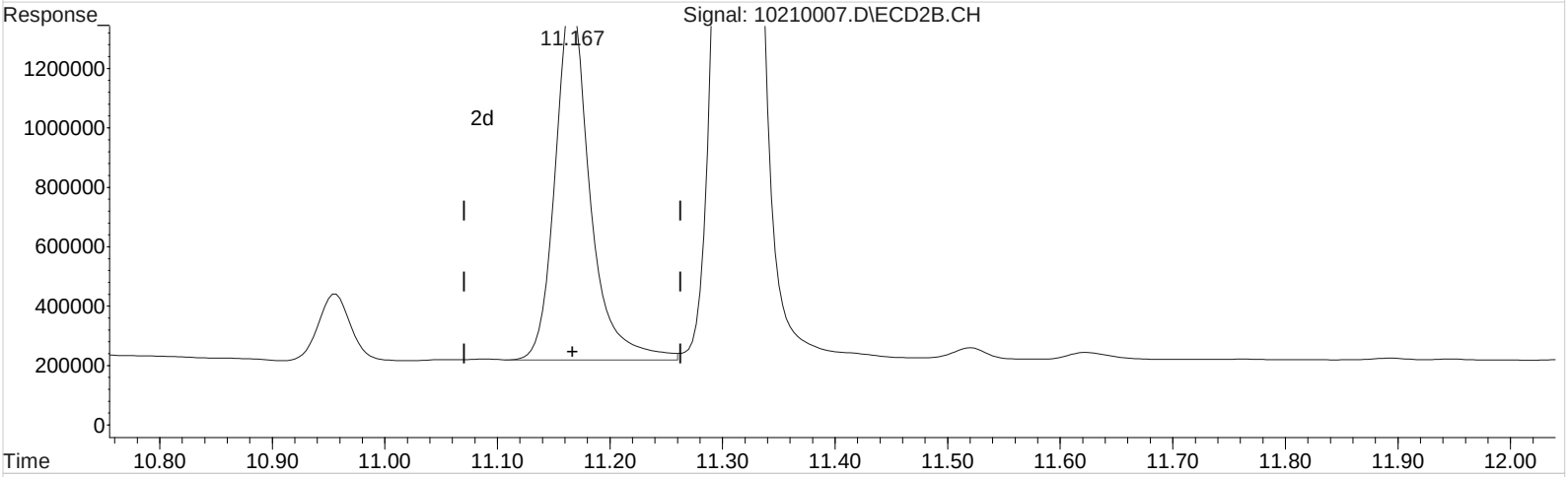
1st UA 10/21/20
2nd 10/22/20

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.

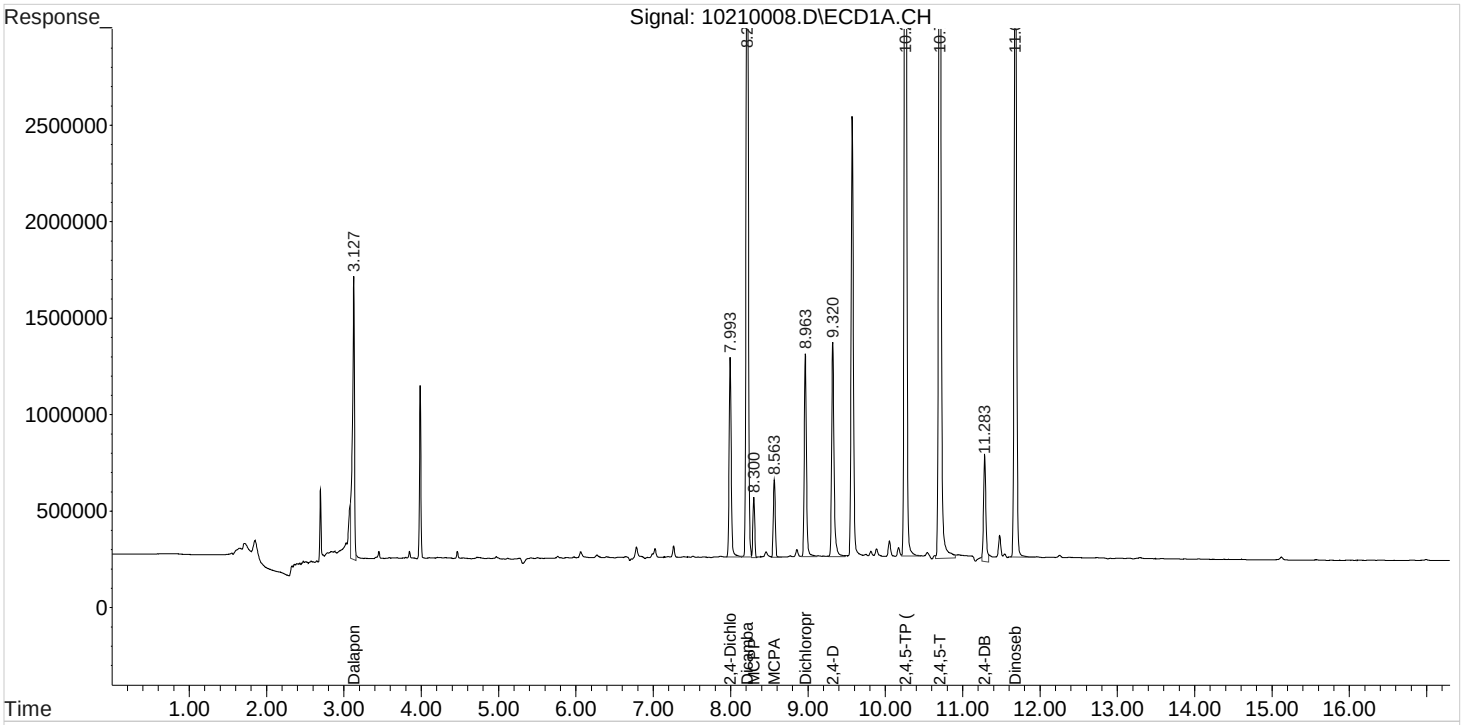
Quantitation Report (QT Reviewed)

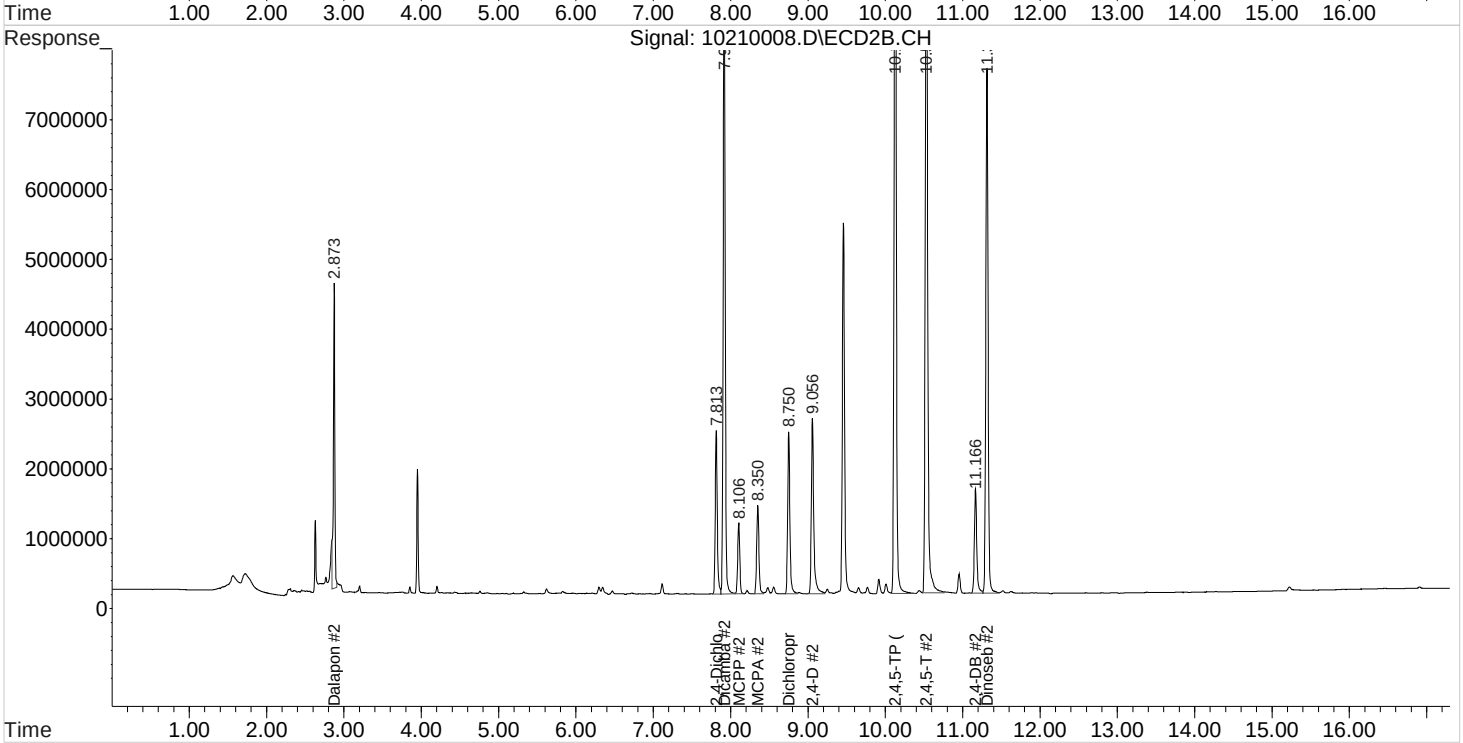
1st UA 10/21/20
2nd 10/22/20

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





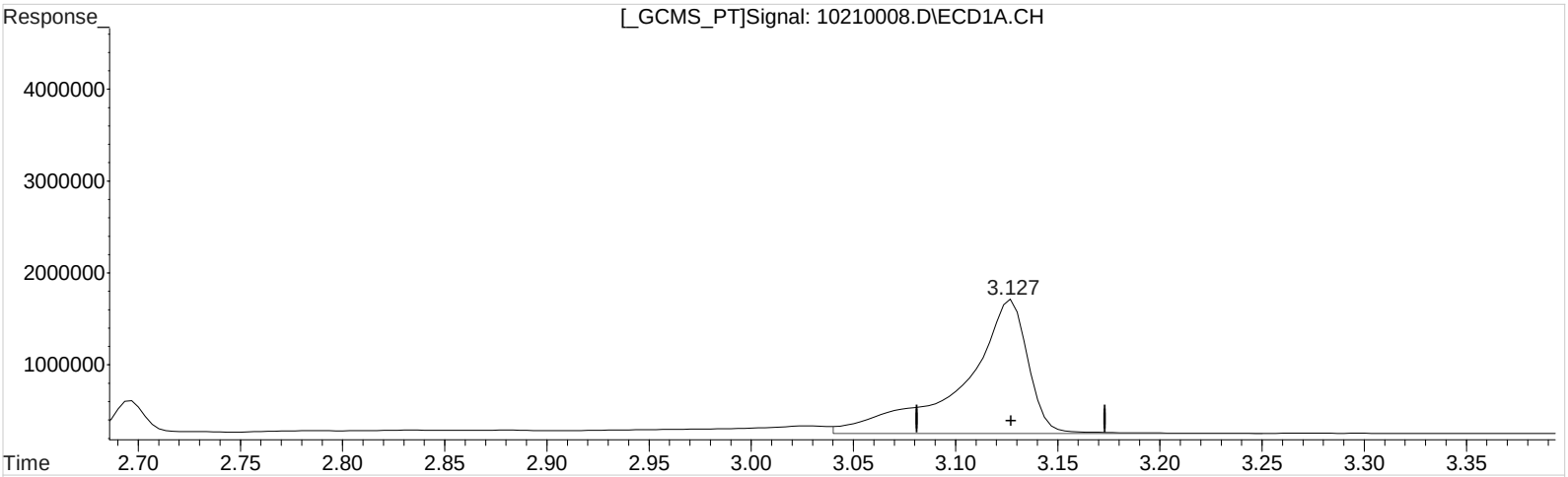
Quantitation Report (Qedit)

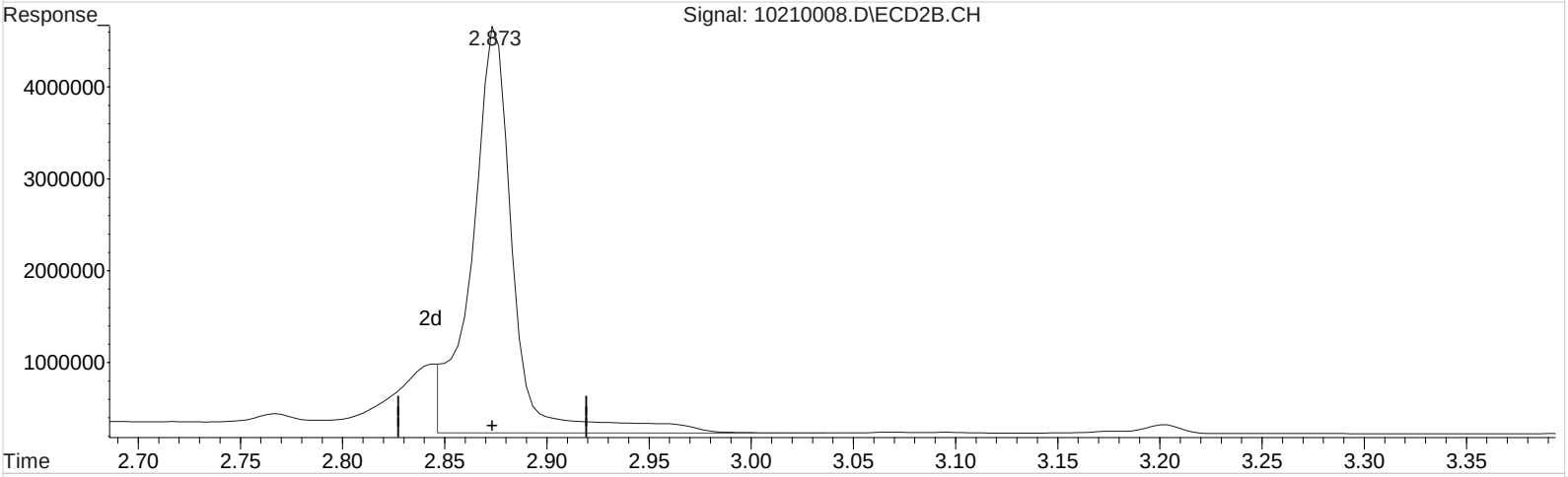
1st UA 10/21/20
2nd 10/22/20

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

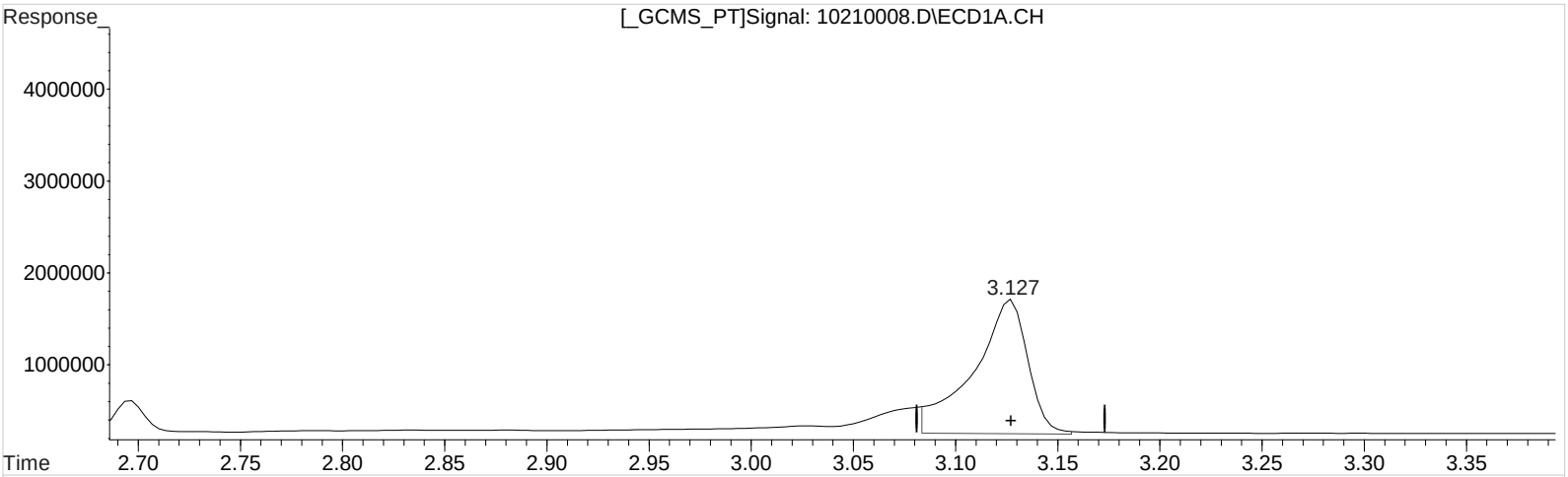
Quantitation Report (Qedit)

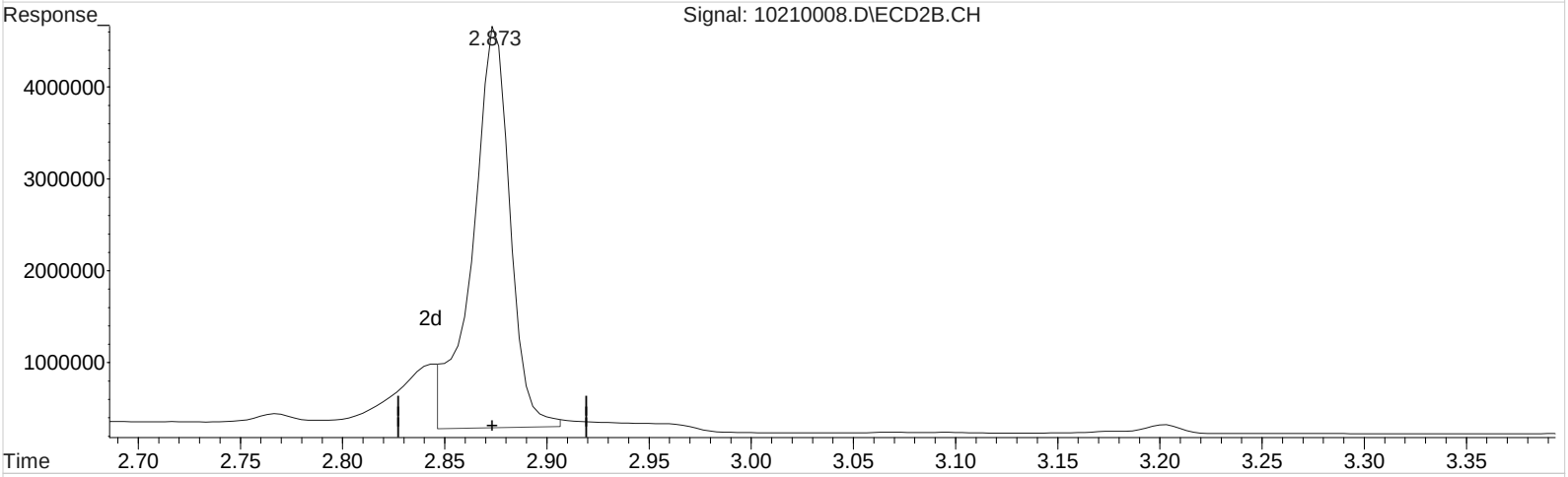
1st UA 10/21/20
2nd 10/22/20

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

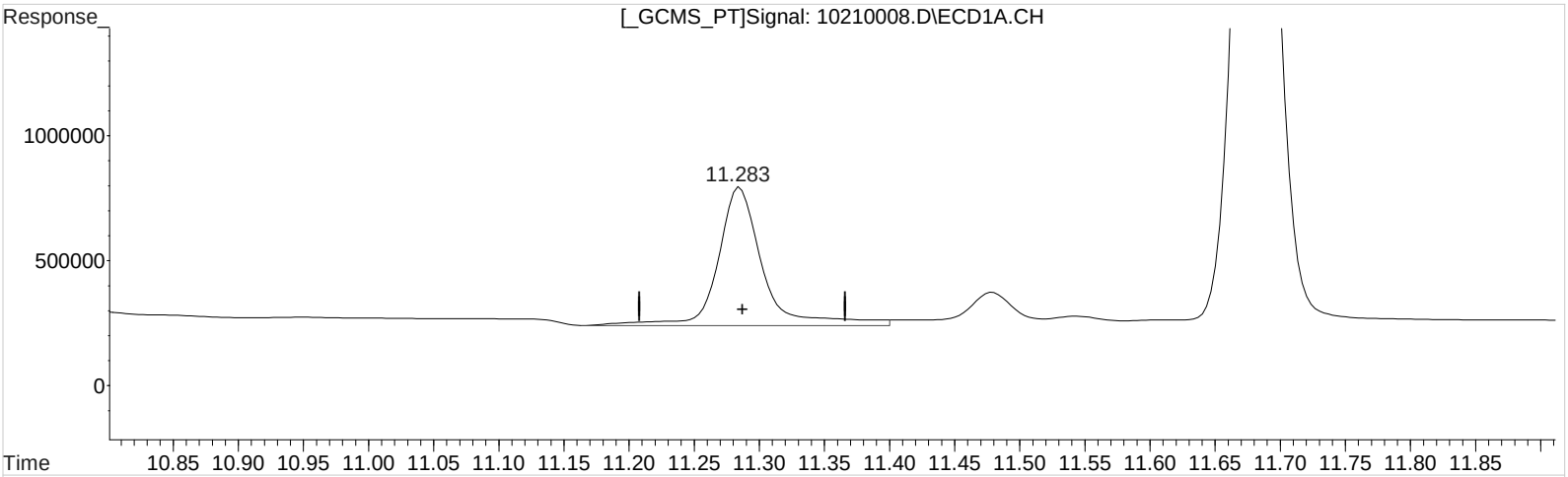
(+) = Expected Retention Time

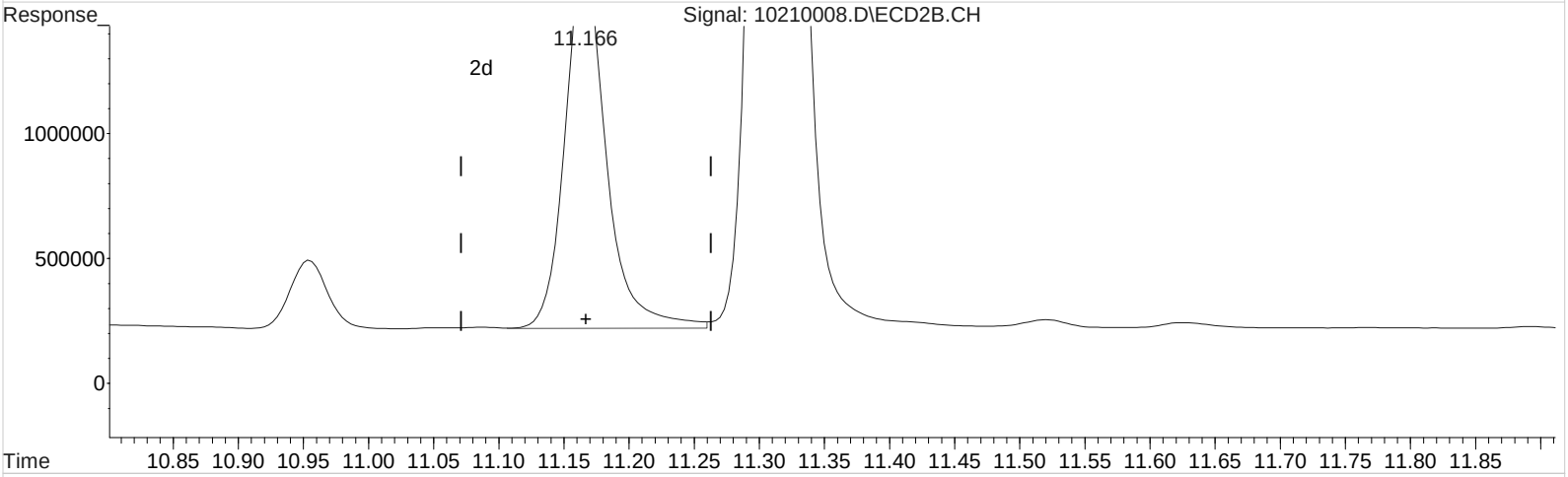
1st UA 10/21/20
2nd 10/22/20

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

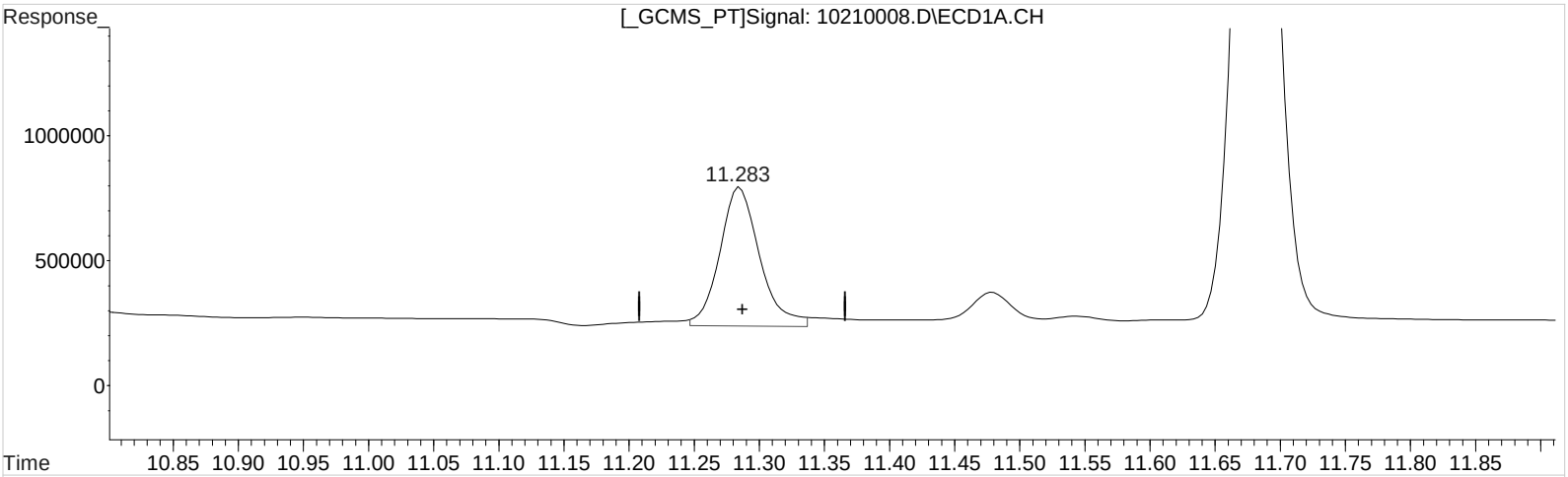
Quantitation Report (Qedit)

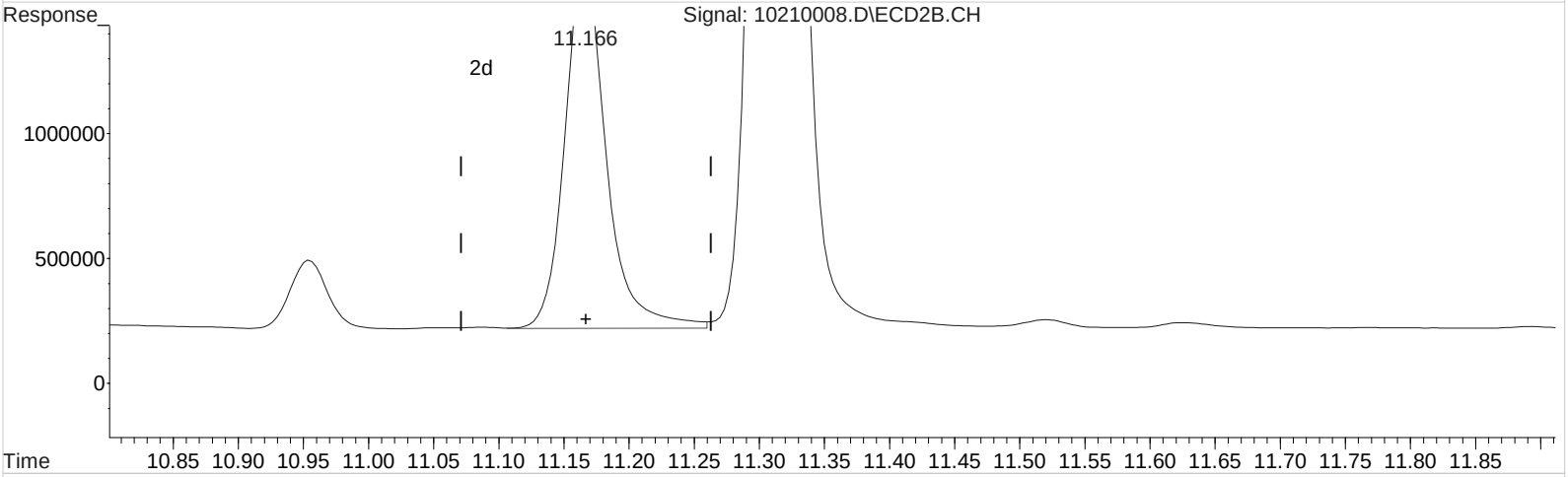
1st UA 10/21/20
2nd 10/22/20

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 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.

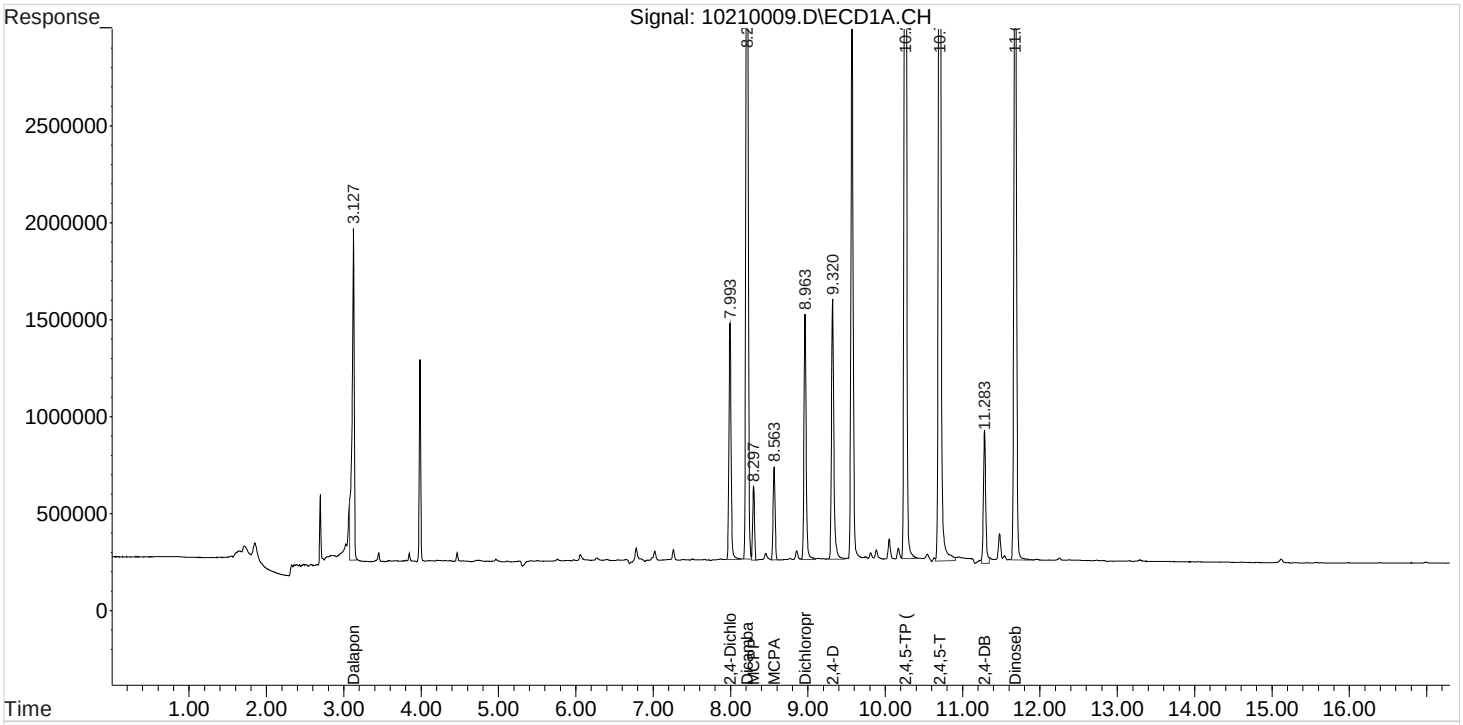
Quantitation Report (QT Reviewed)

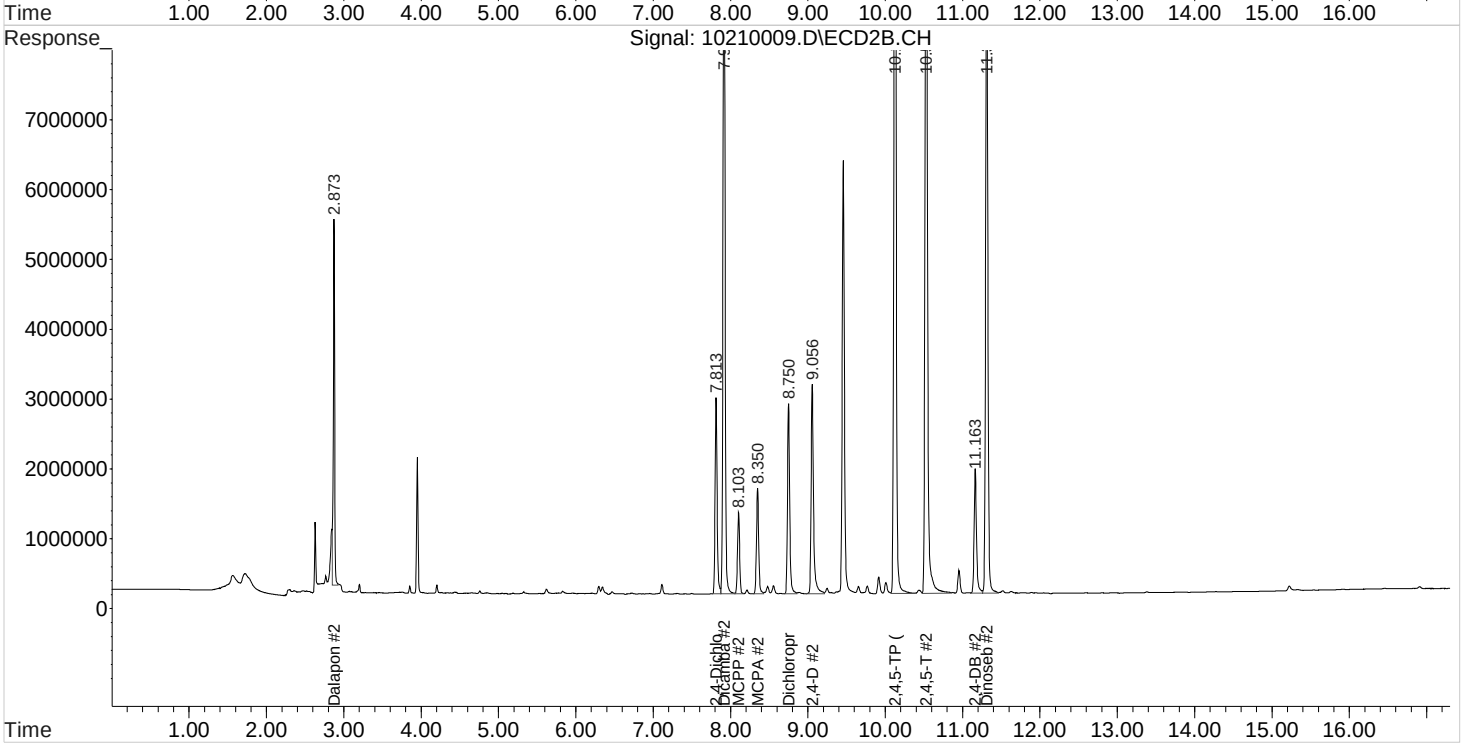
1st UA 10/21/20
2nd 10/22/20

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





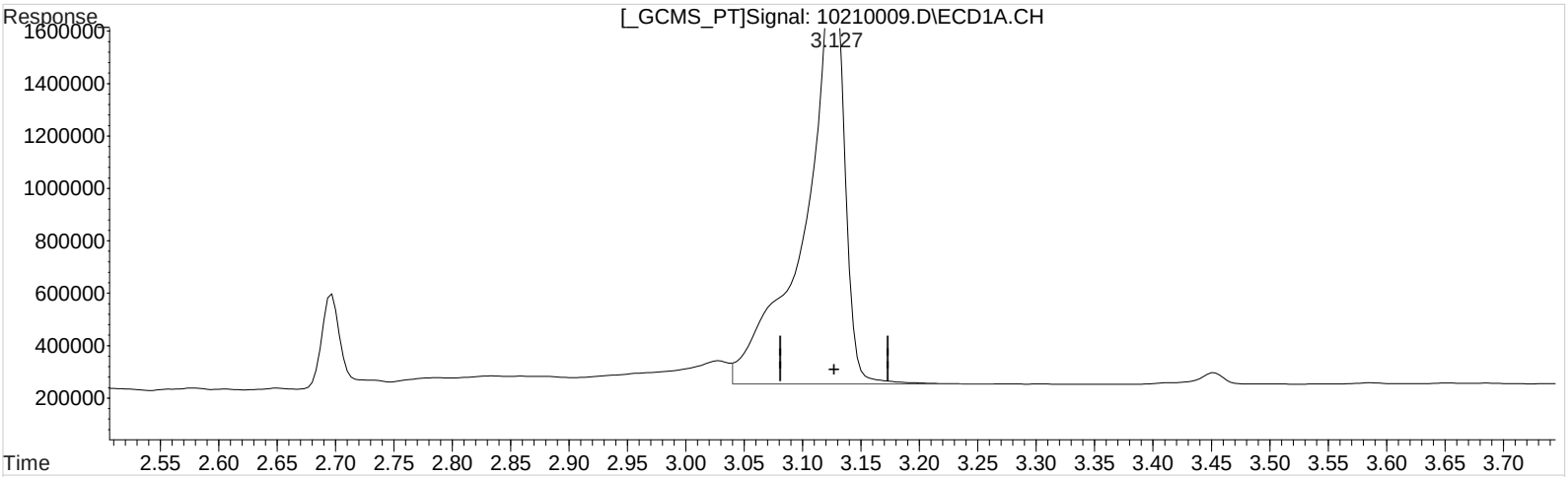
Quantitation Report (Qedit)

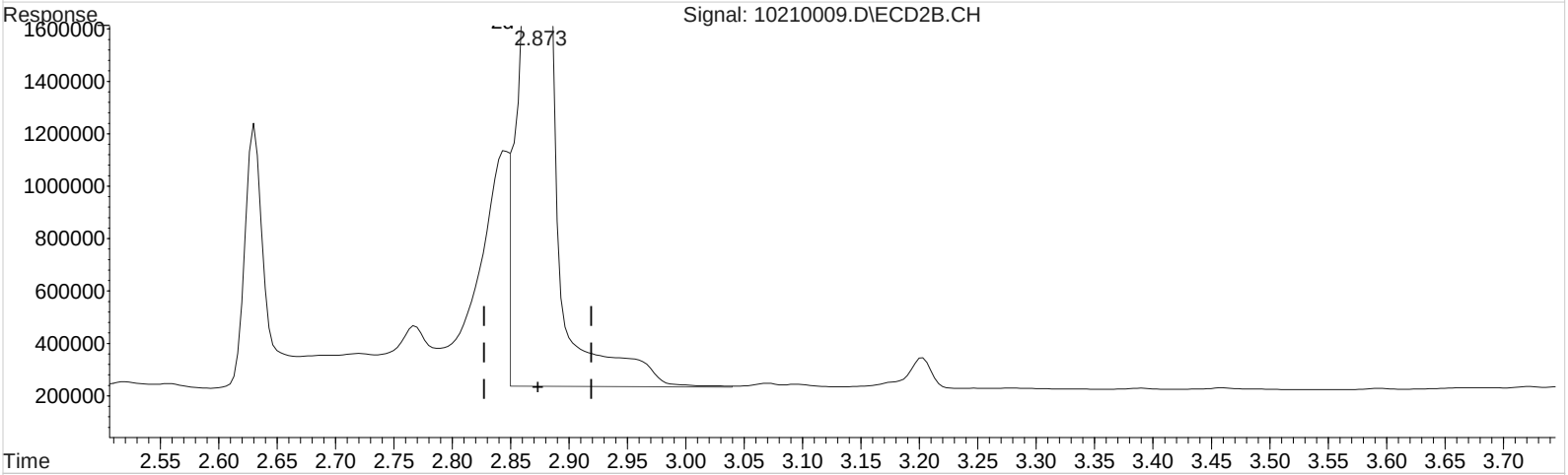
1st UA 10/21/20
2nd 10/22/20

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

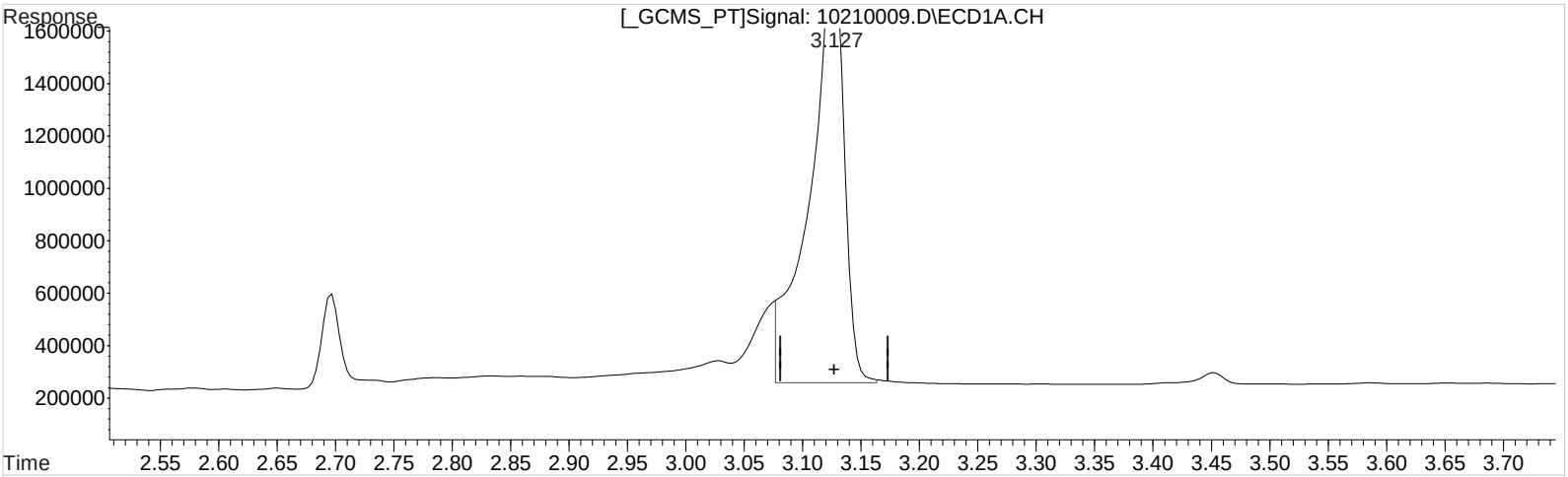
Quantitation Report (Qedit)

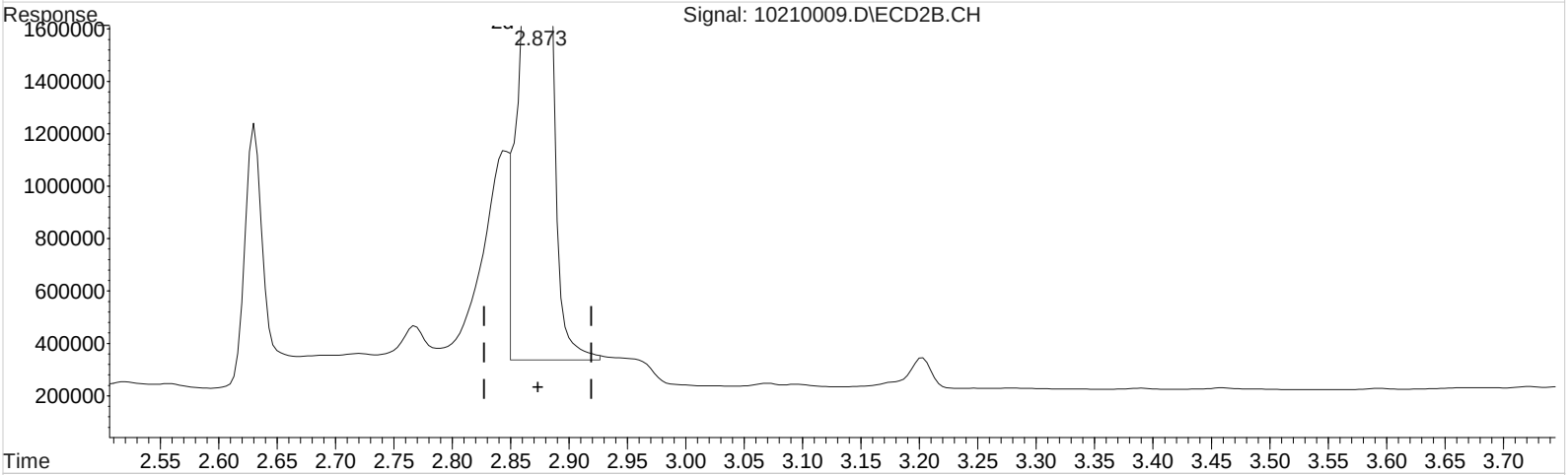
1st UA 10/21/20
2nd 10/22/20

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

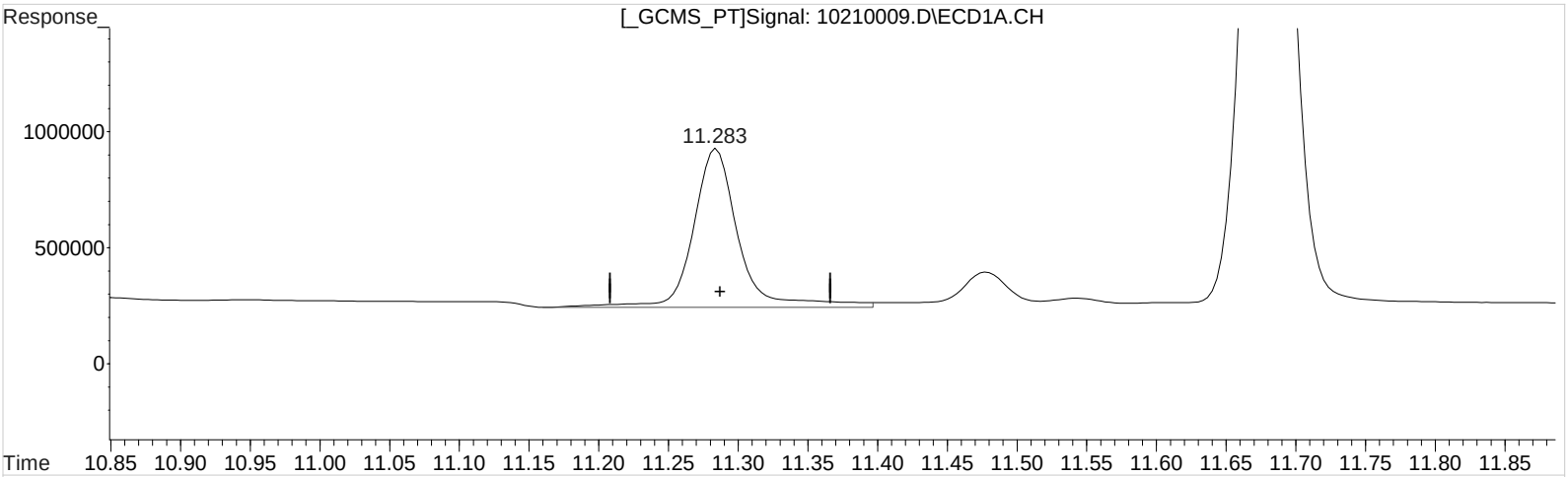
(+) = Expected Retention Time

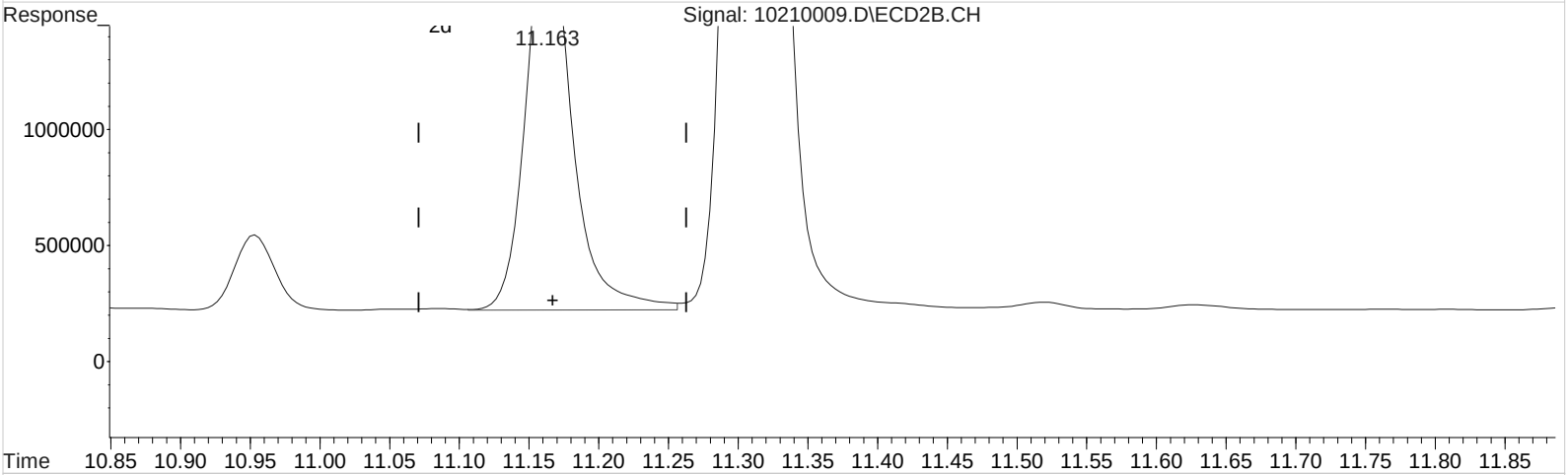
1st UA 10/21/20
2nd 10/22/20

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

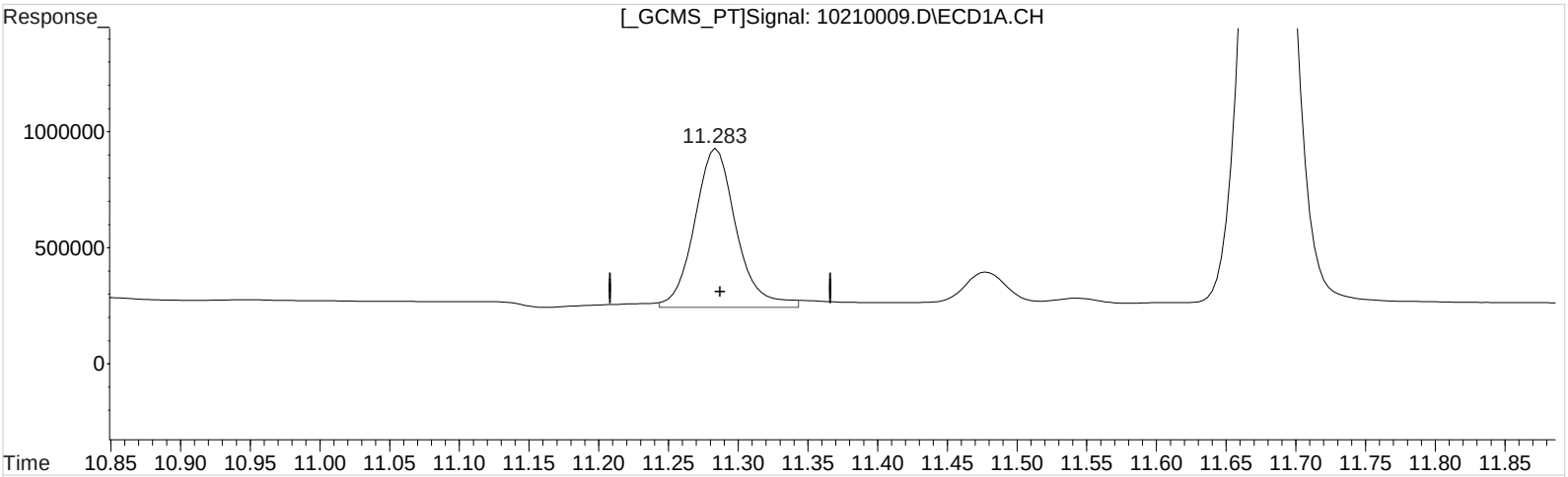
(+) = Expected Retention Time

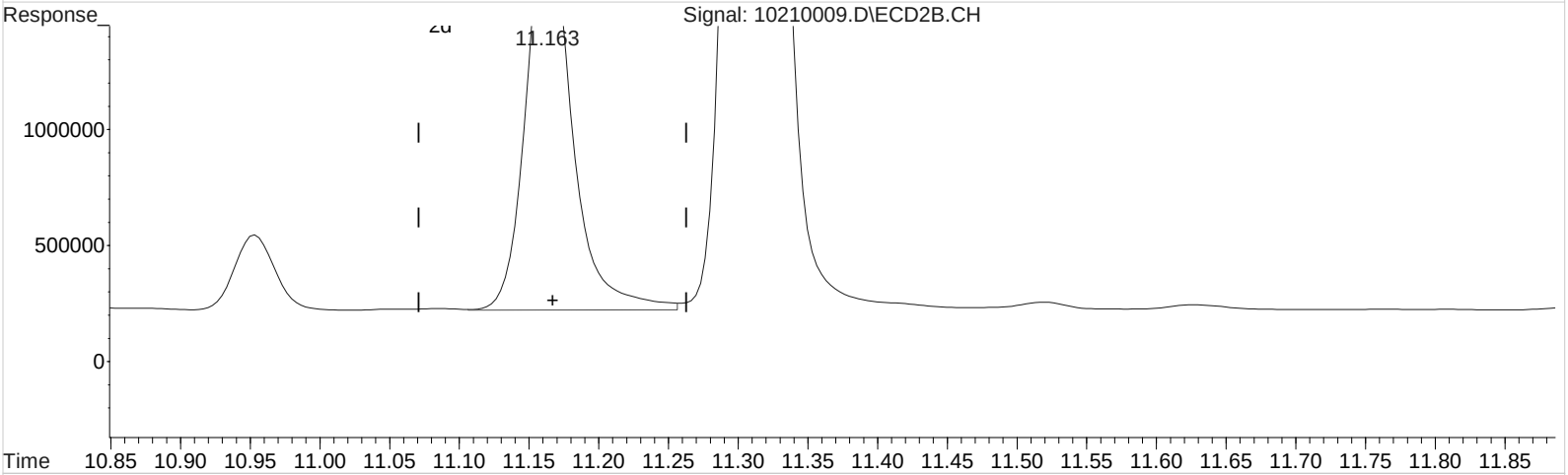
1st UA 10/21/20
2nd 10/22/20

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

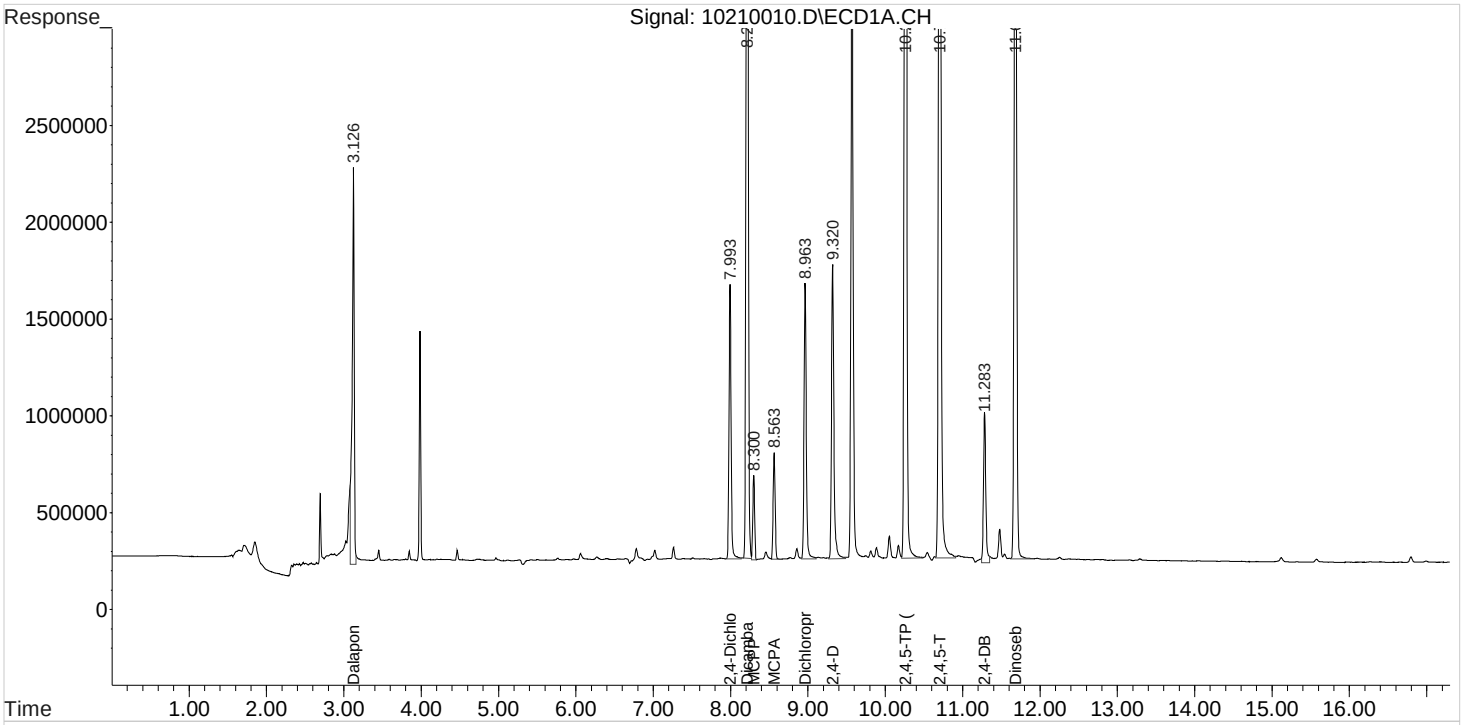
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

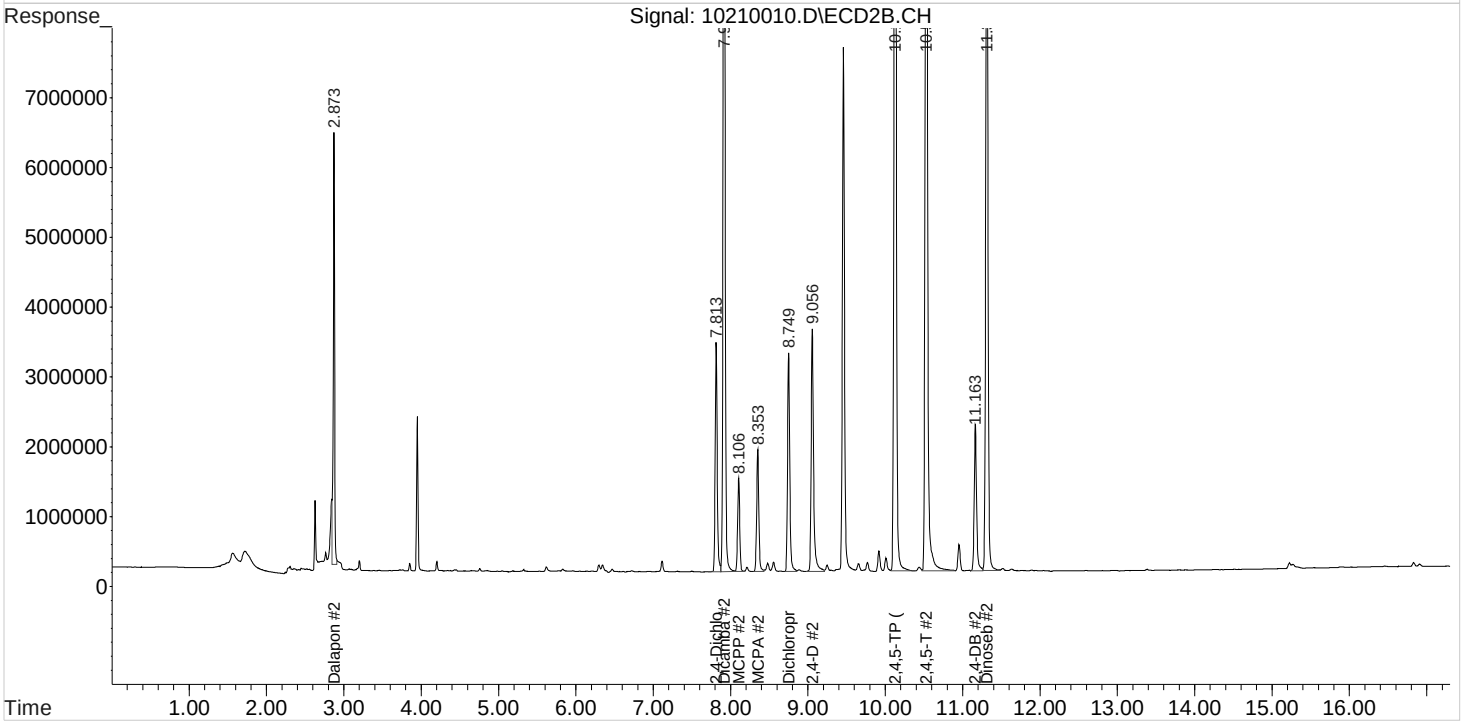
1st UA 10/21/20
2nd 10/22/20

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





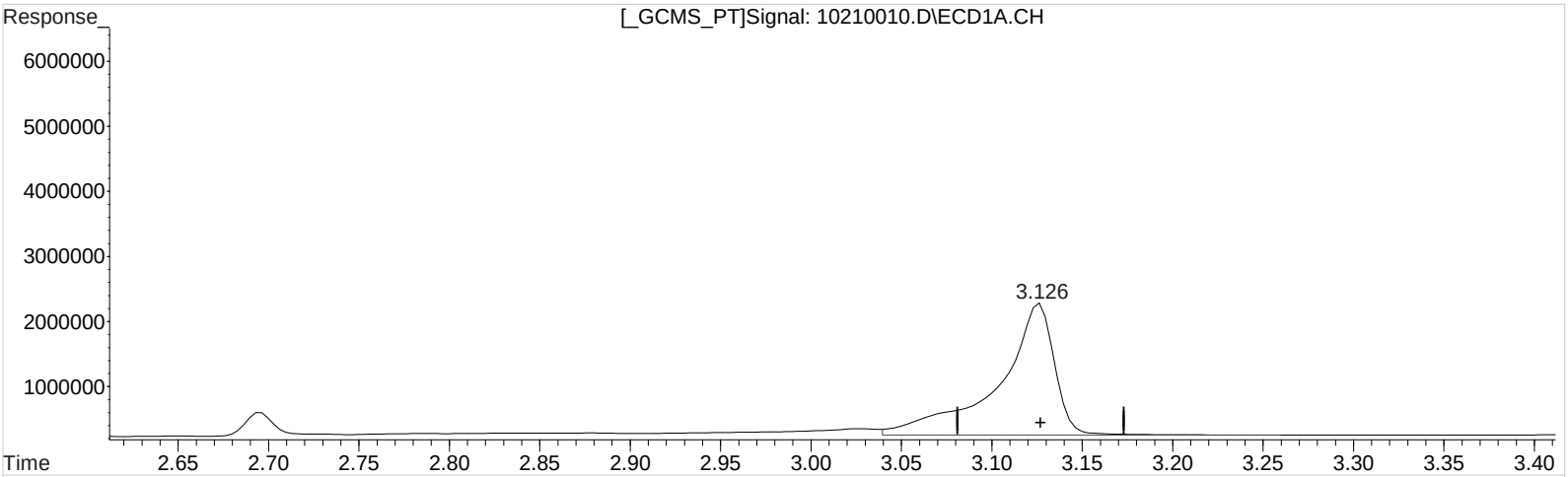
Quantitation Report (Qedit)

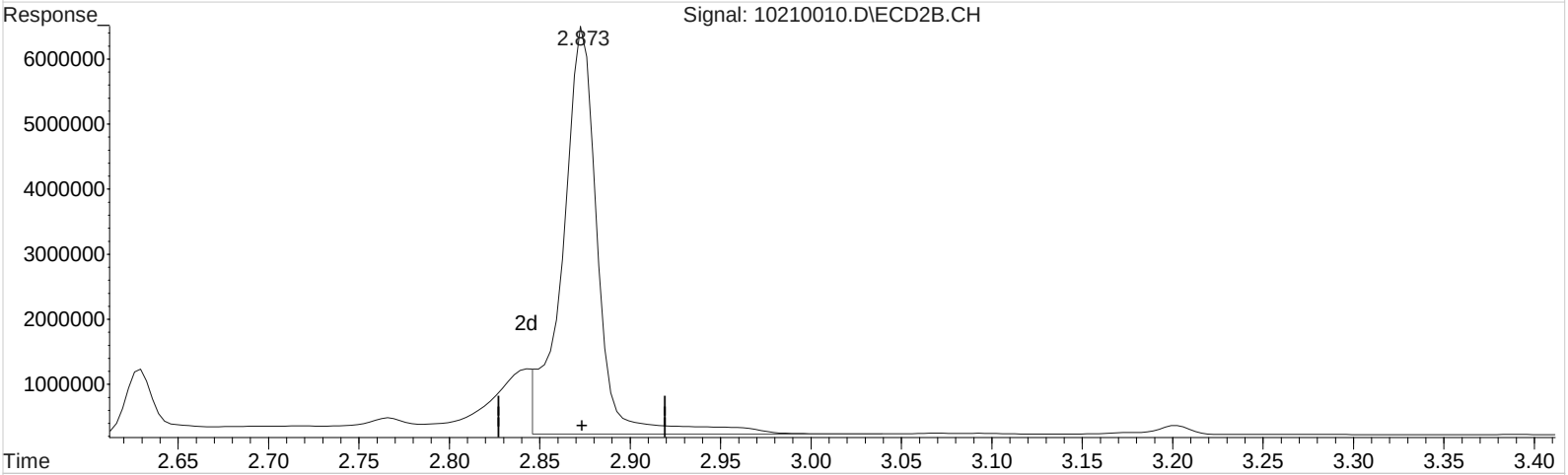
1st UA 10/21/20
2nd 10/22/20

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

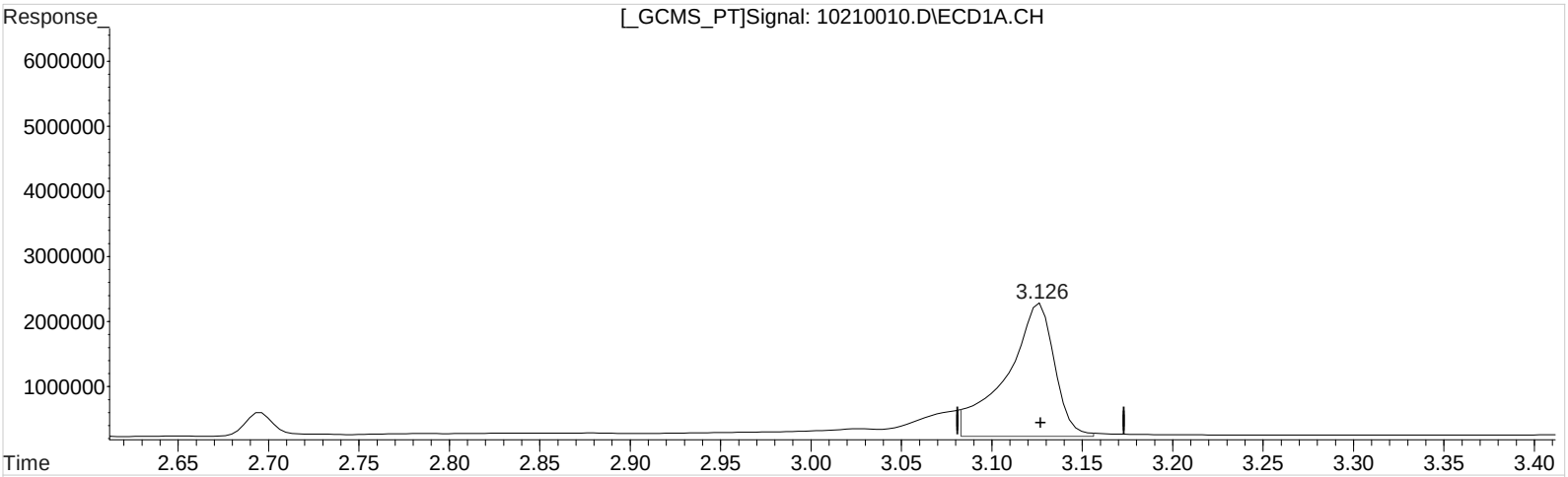
Quantitation Report (Qedit)

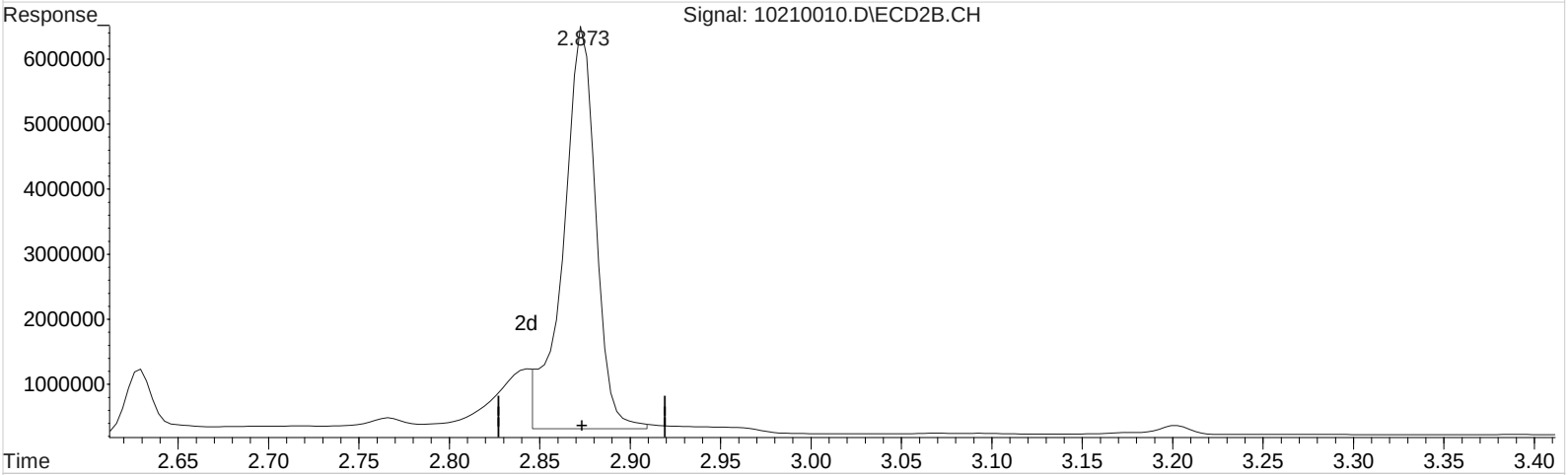
1st UA 10/21/20
2nd 10/22/20

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

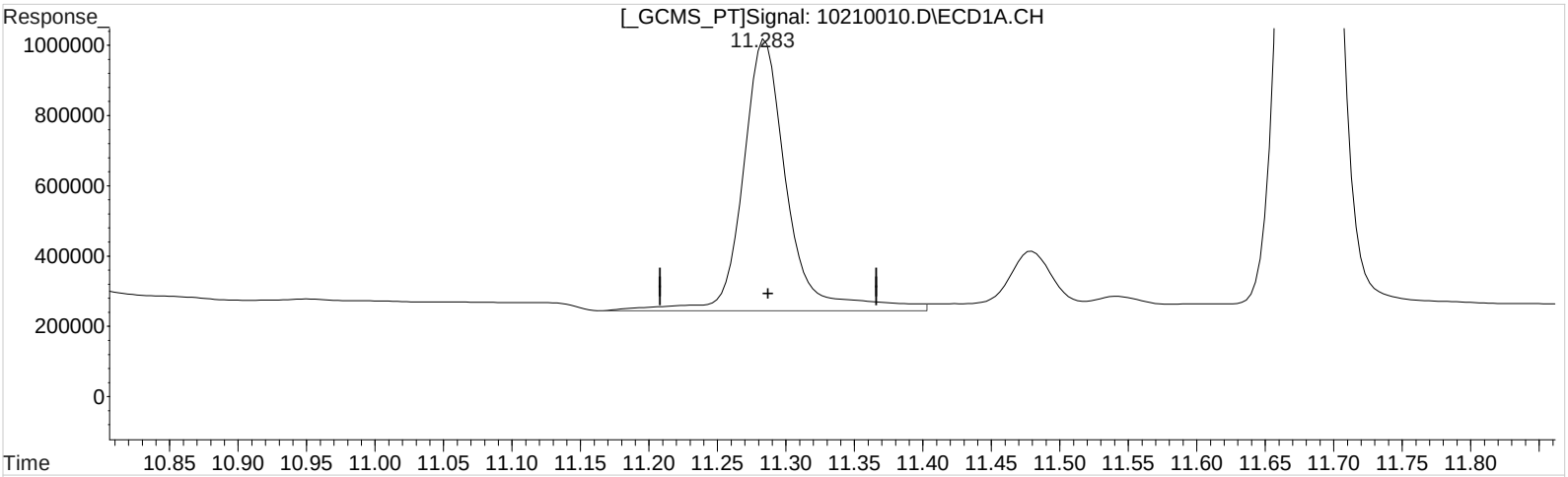
Quantitation Report (Qedit)

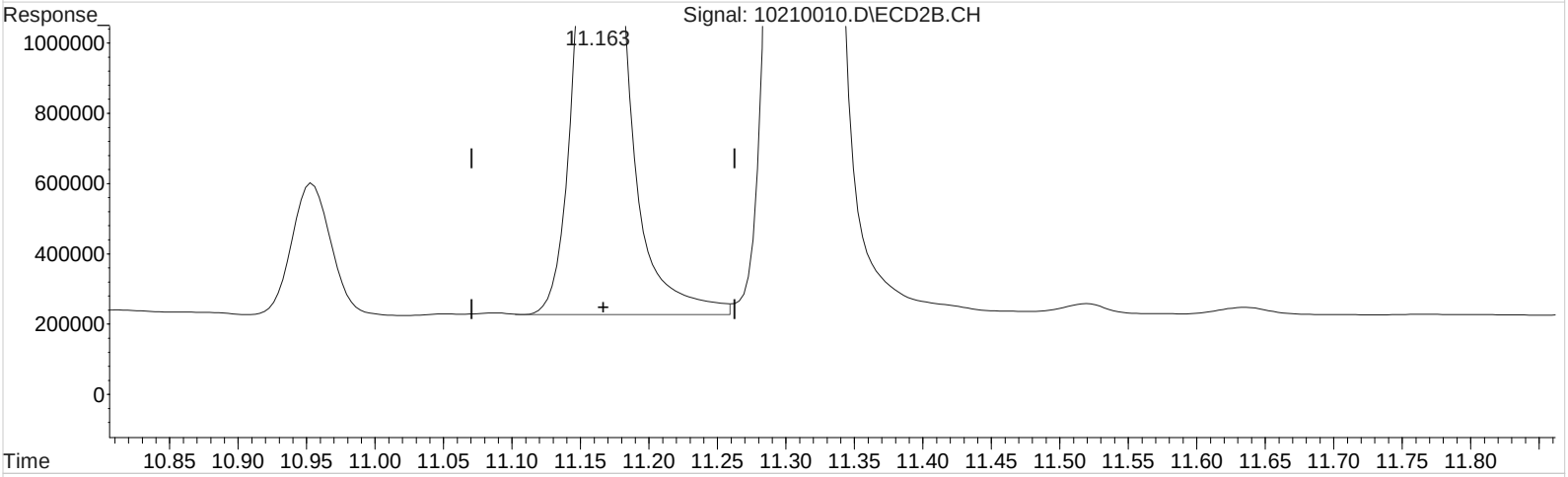
1st UA 10/21/20
2nd 10/22/20

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

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

11.163min 163.801 ppb

response 4482448

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

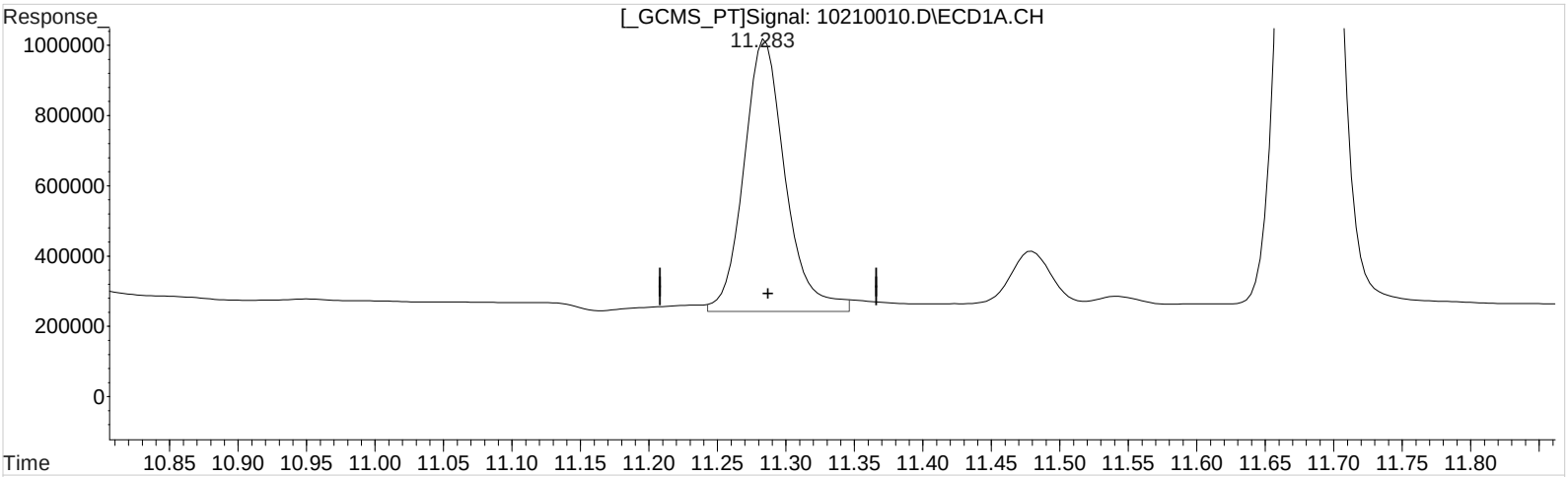
Quantitation Report (Qedit)

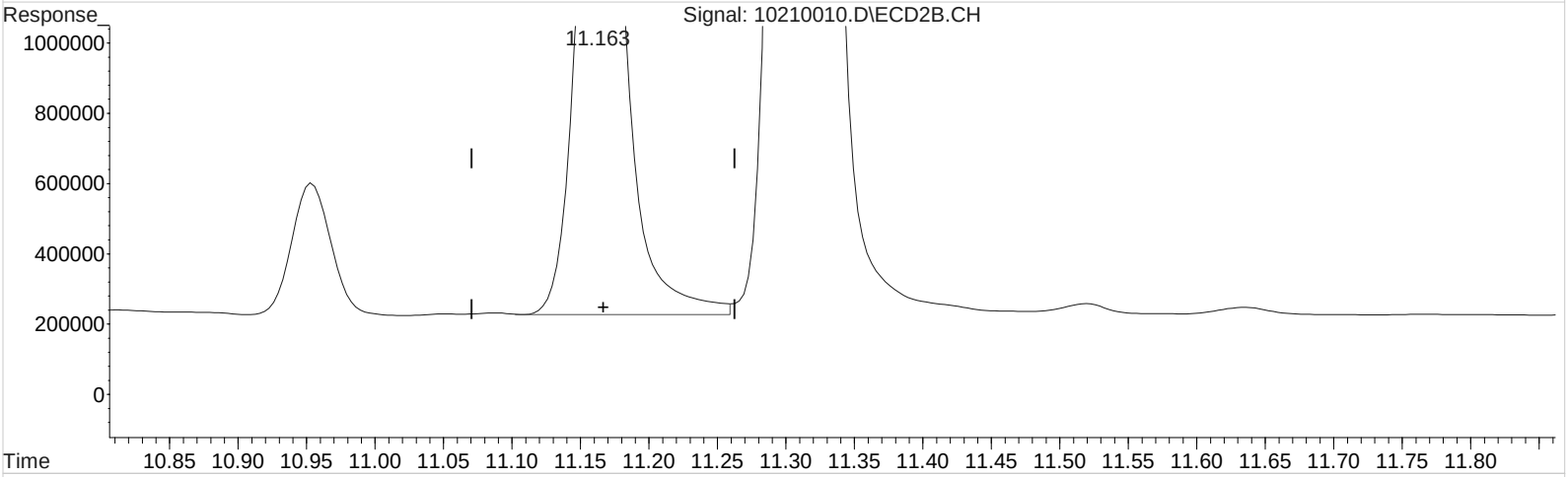
1st UA 10/21/20
2nd 10/22/20

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

(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

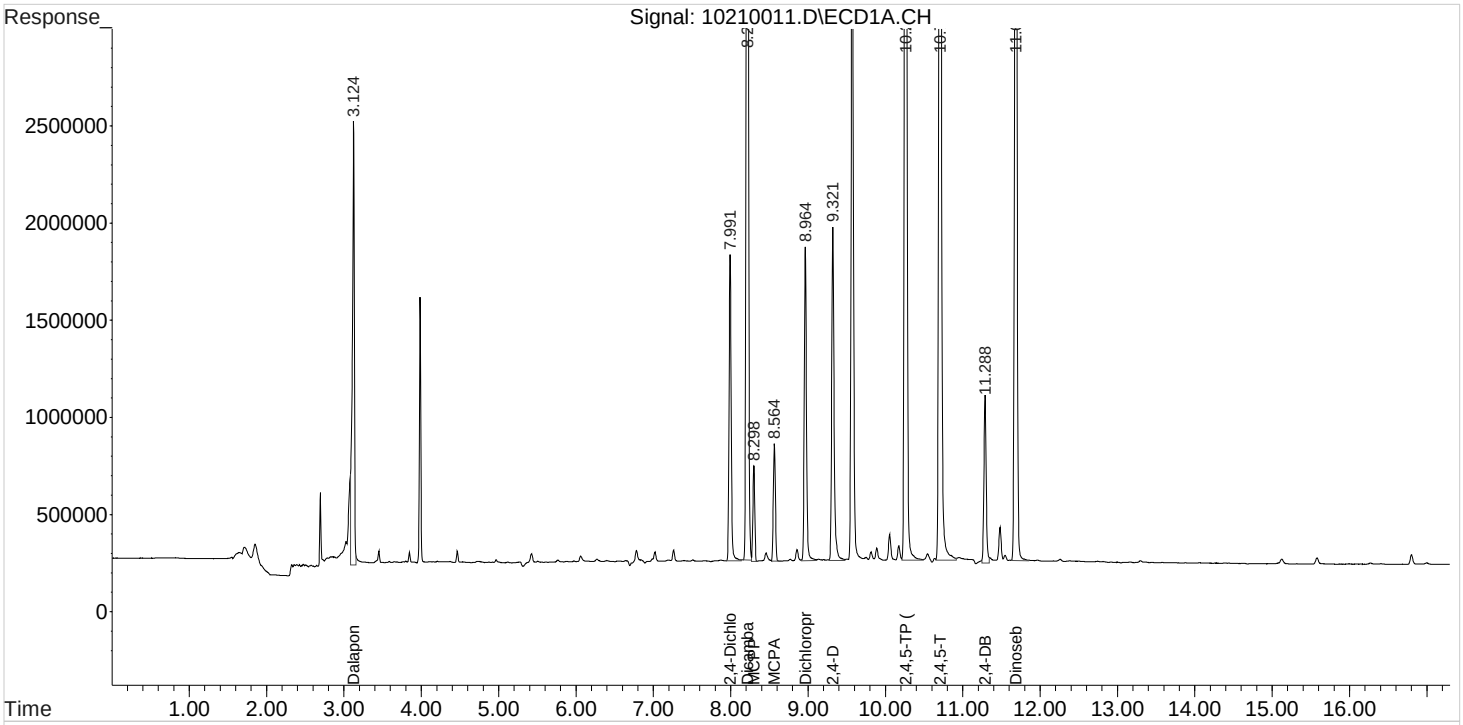
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

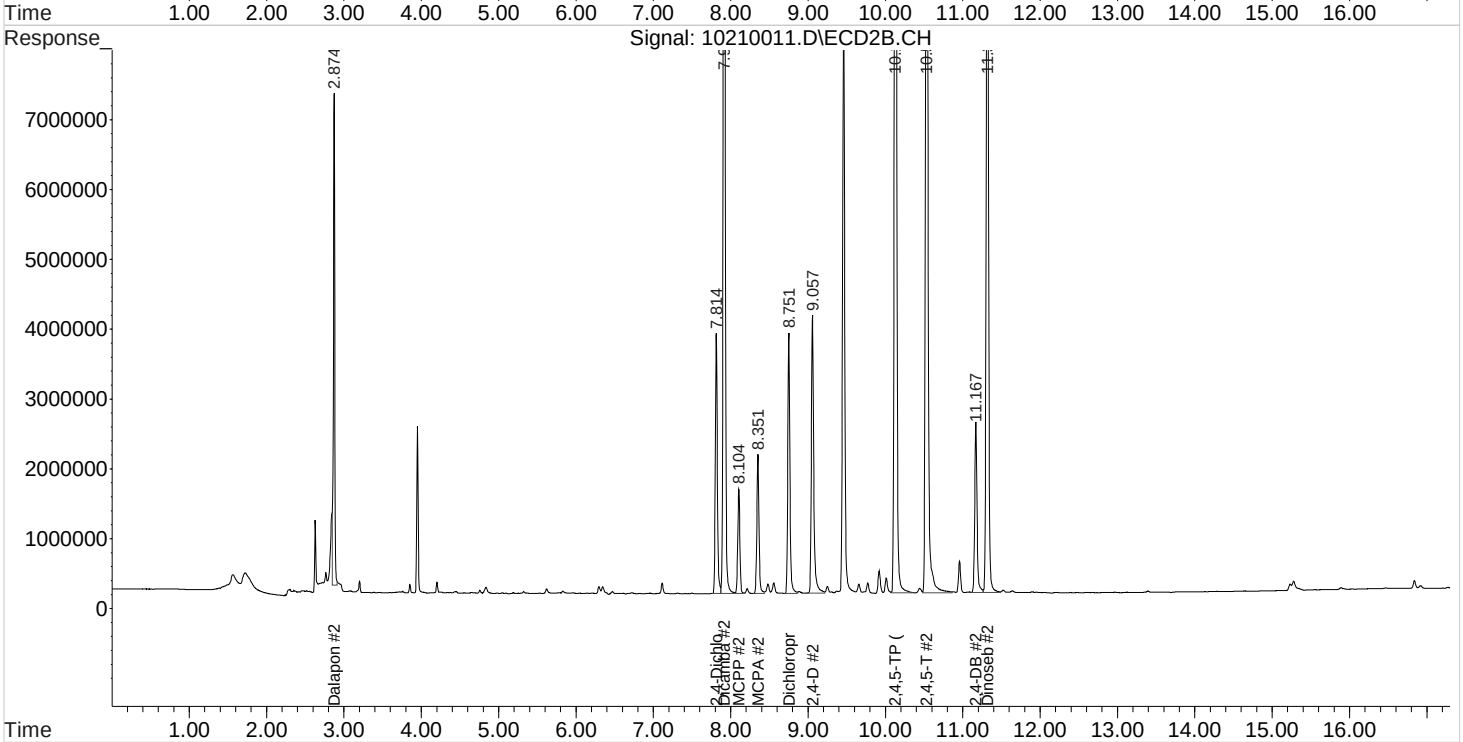
1st UA 10/21/20
2nd 10/22/20

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





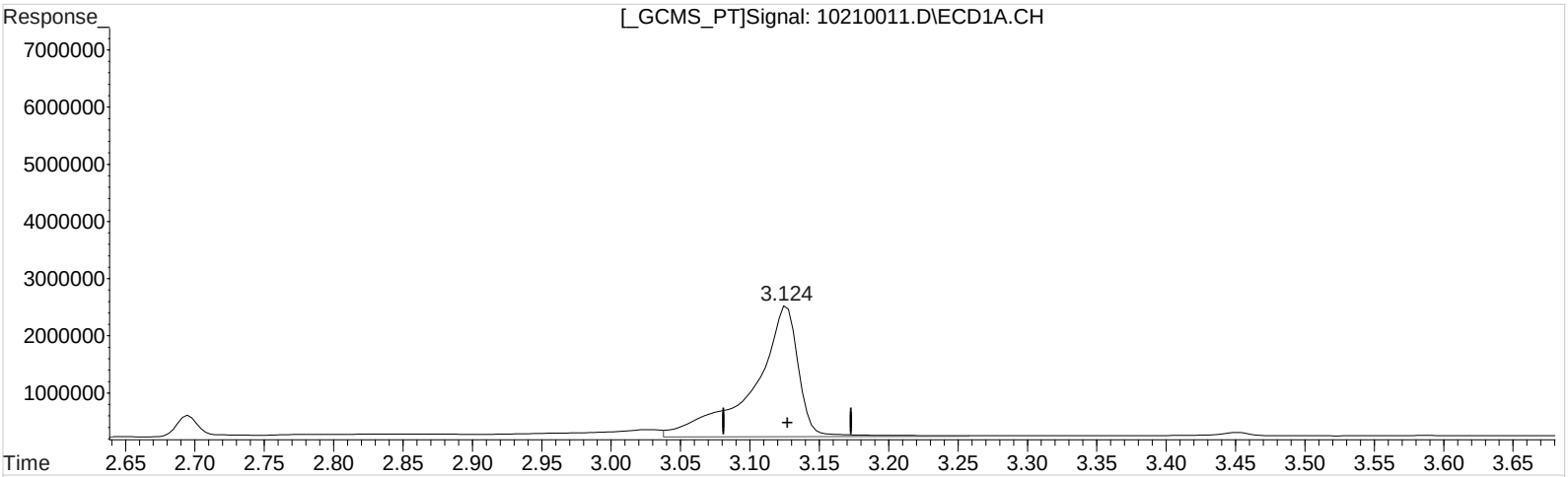
Quantitation Report (Qedit)

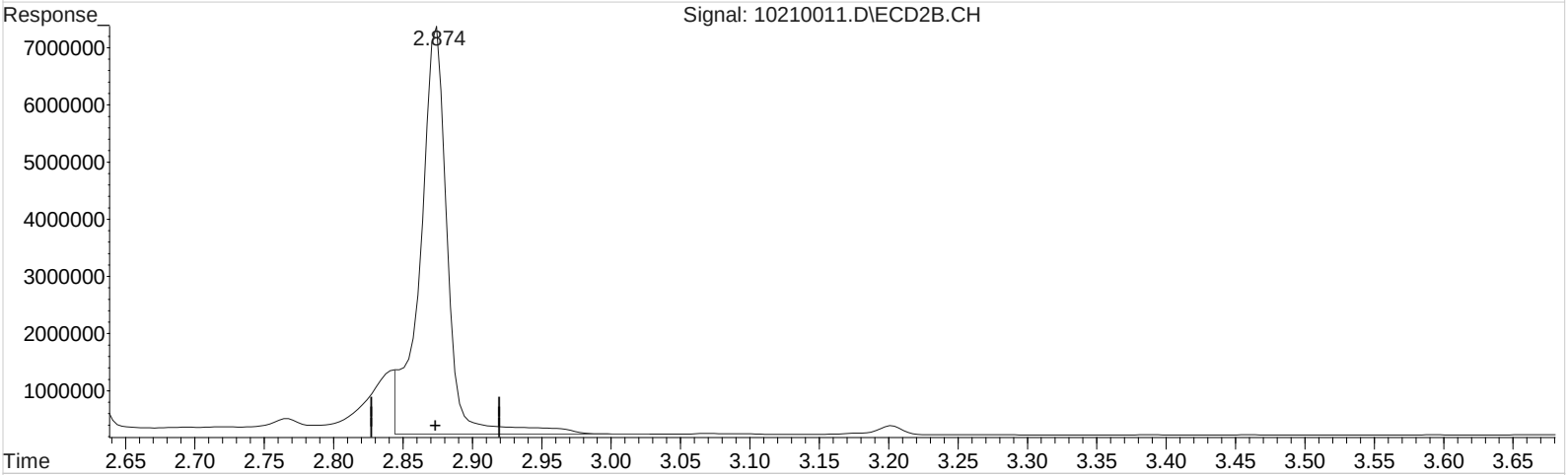
1st UA 10/21/20
2nd 10/22/20

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

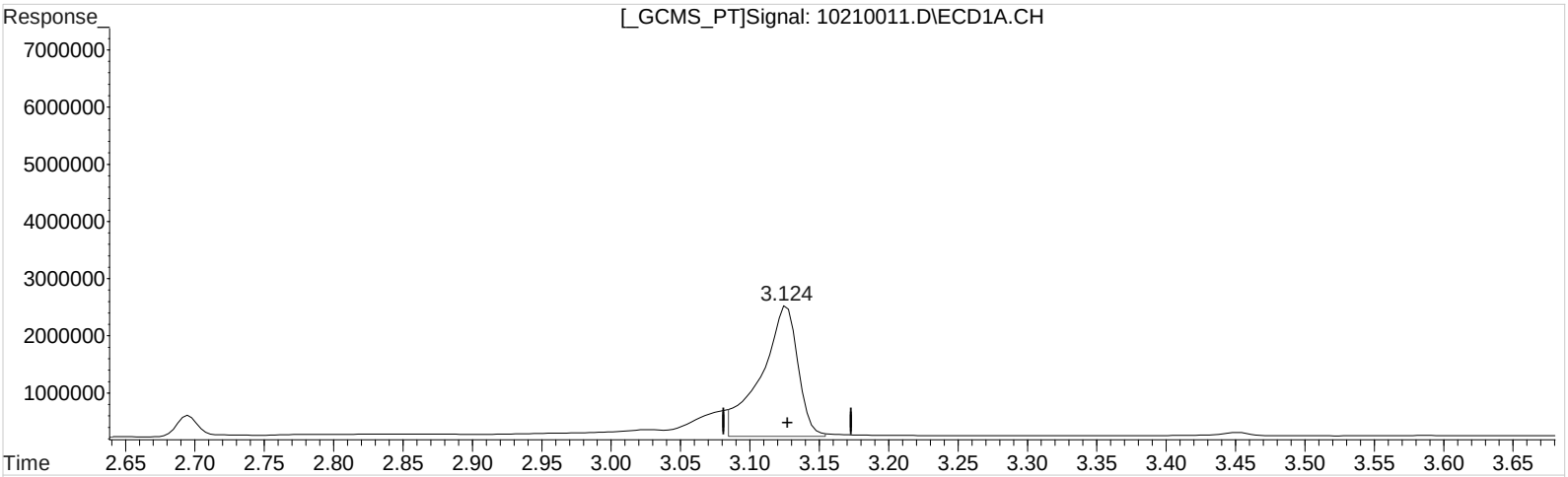
Quantitation Report (Qedit)

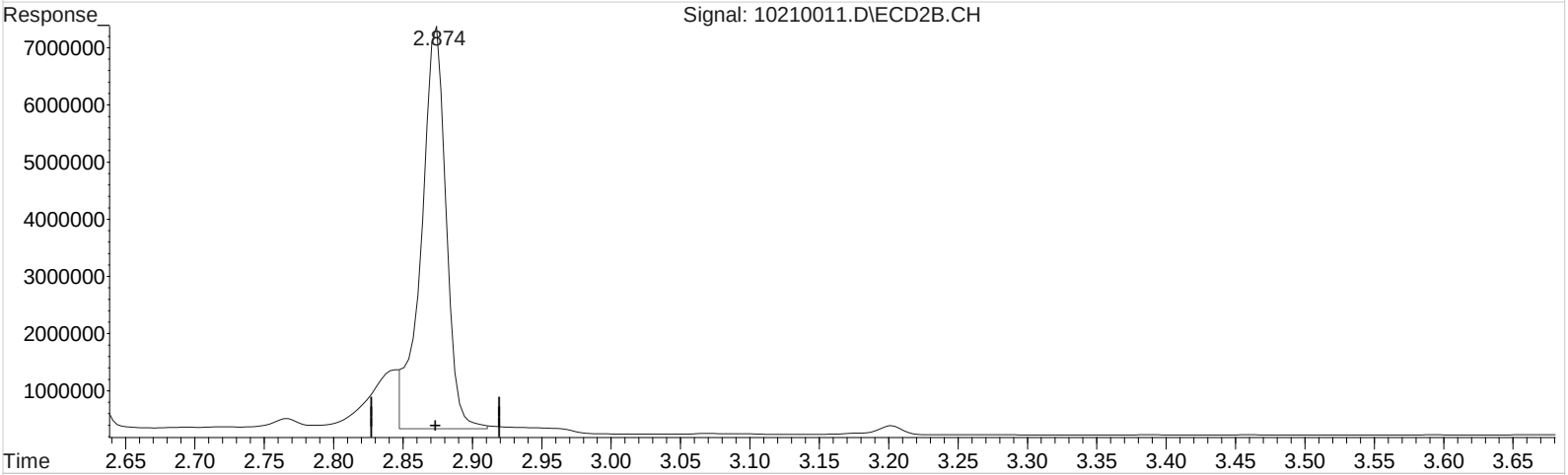
1st UA 10/21/20
2nd 10/22/20

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

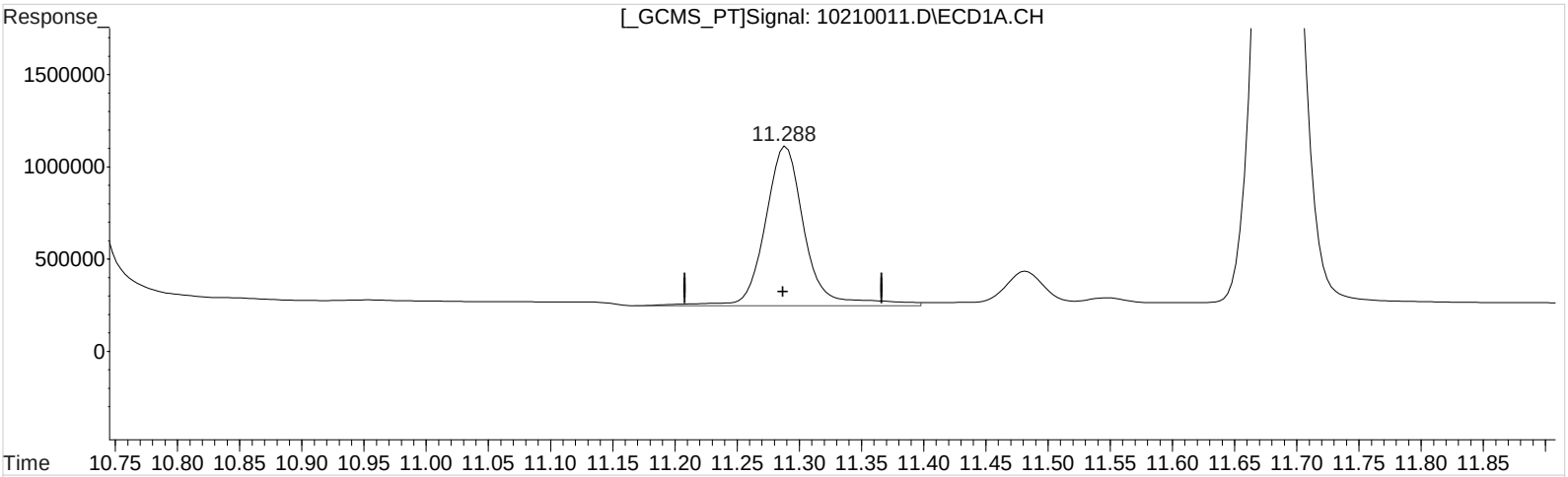
Quantitation Report (Qedit)

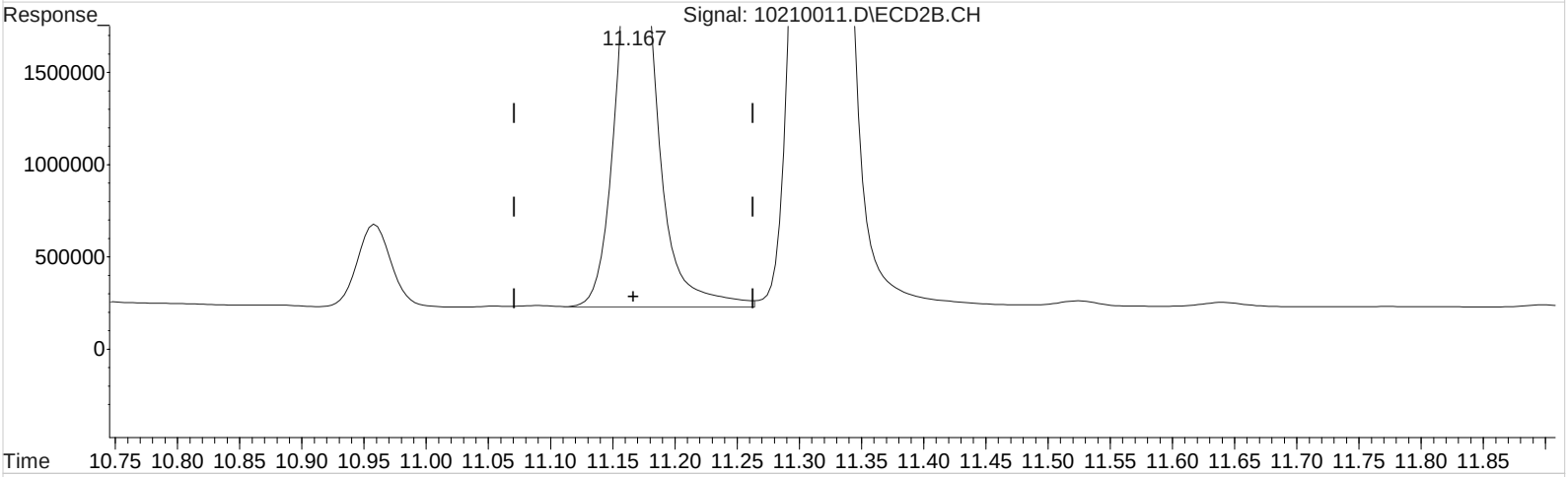
1st UA 10/21/20
2nd 10/22/20

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

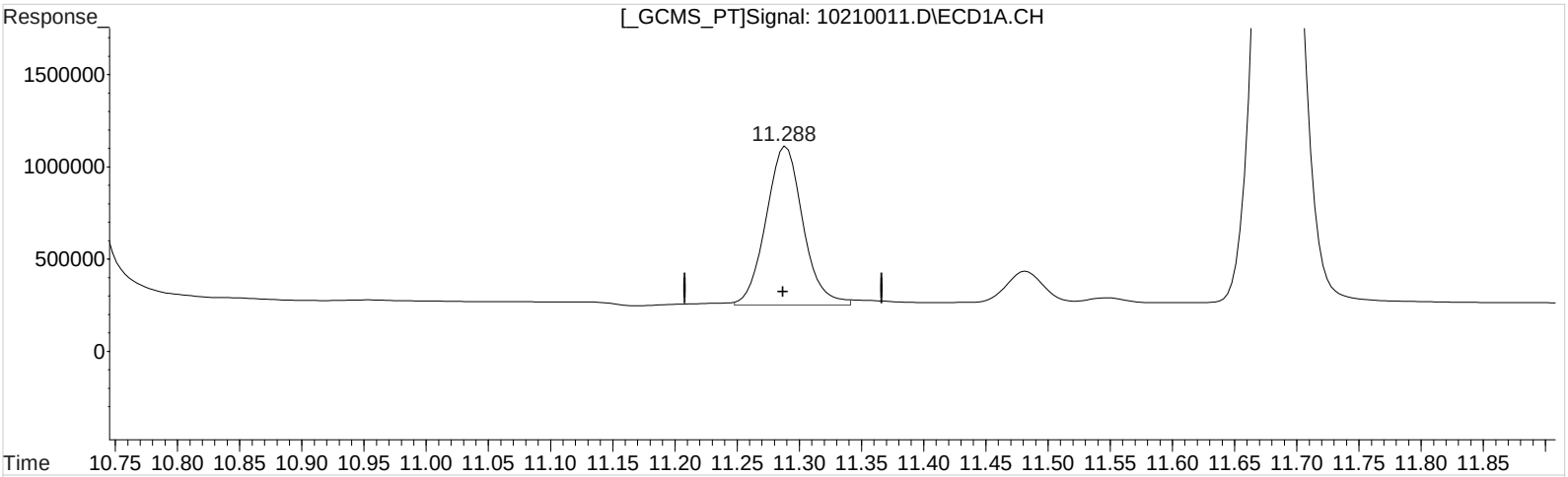
Quantitation Report (Qedit)

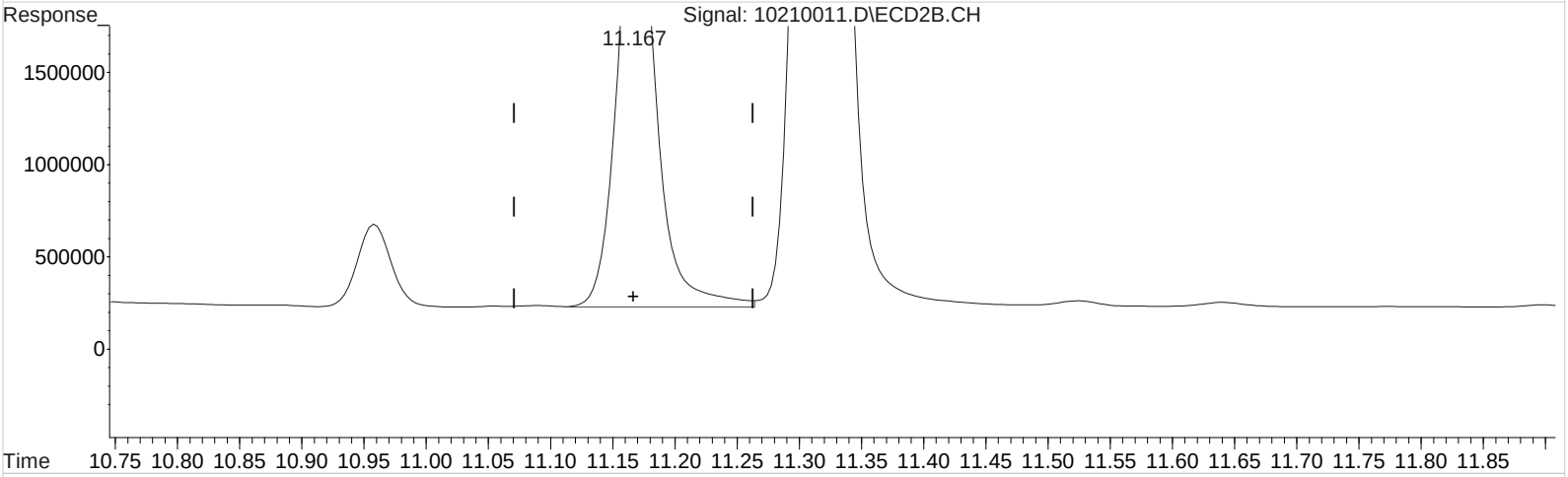
1st UA 10/21/20
2nd 10/22/20

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.

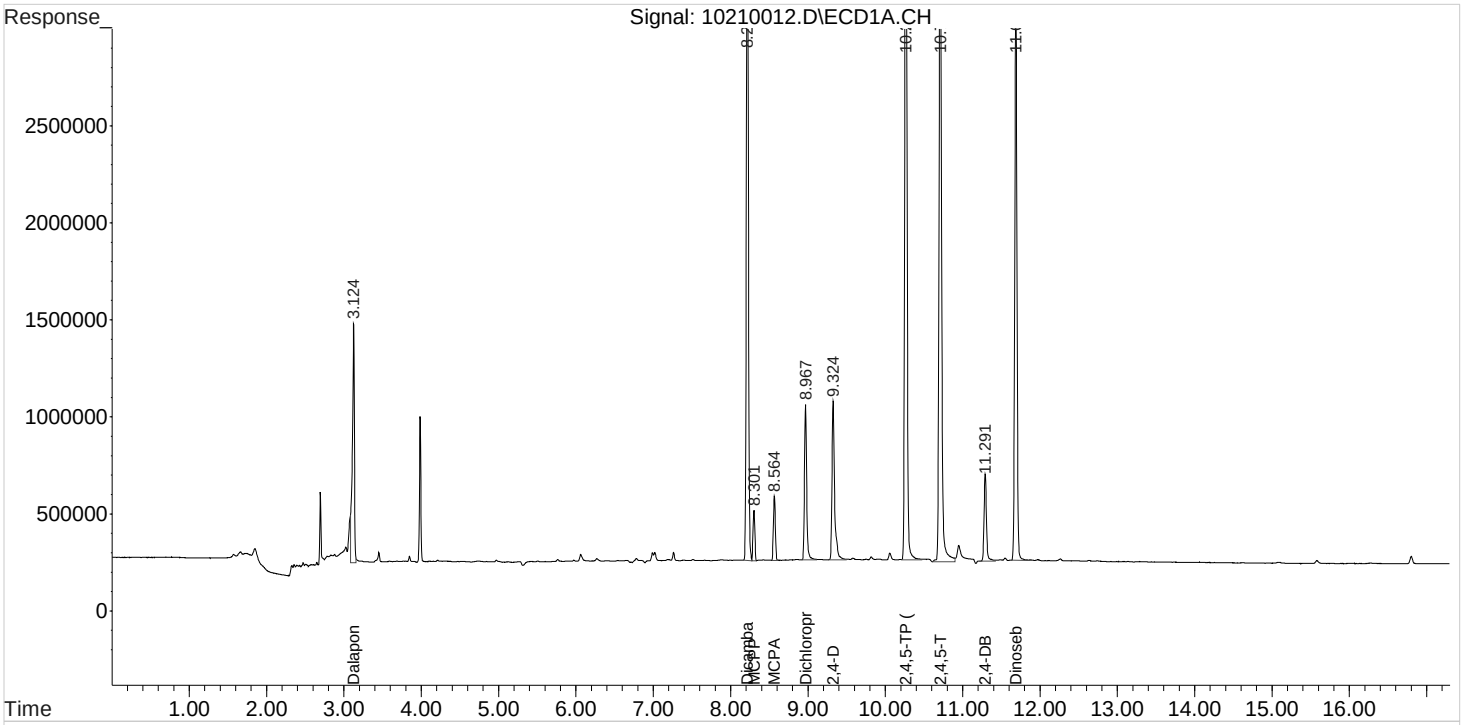
Quantitation Report (QT Reviewed)

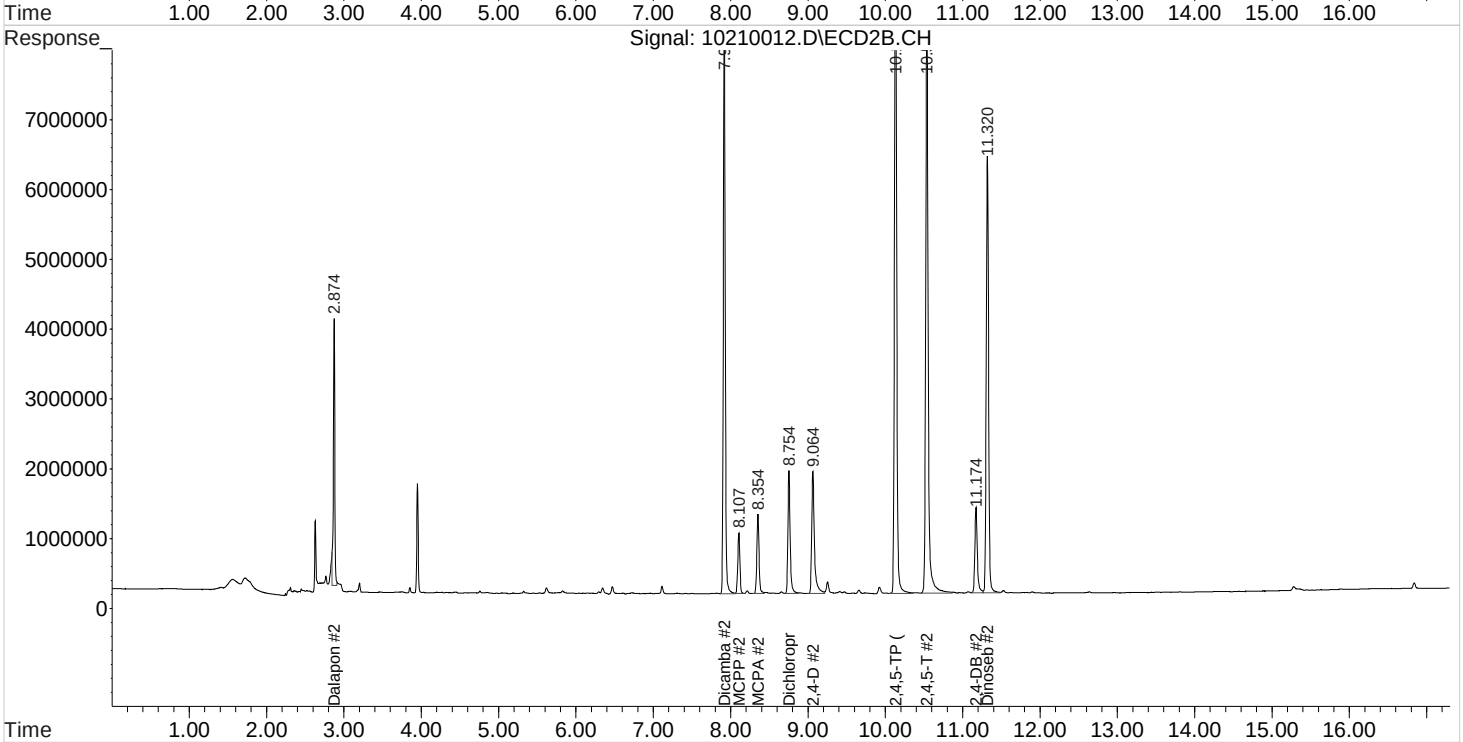
1st UA 10/21/20
2nd 10/22/20

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





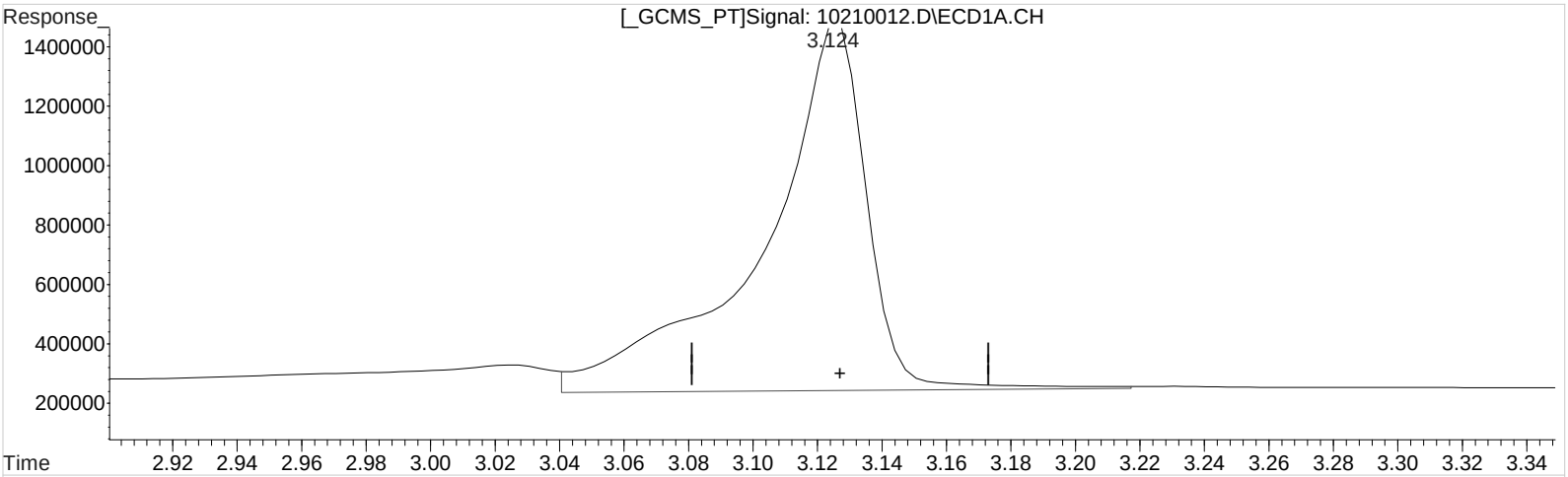
Quantitation Report (Qedit)

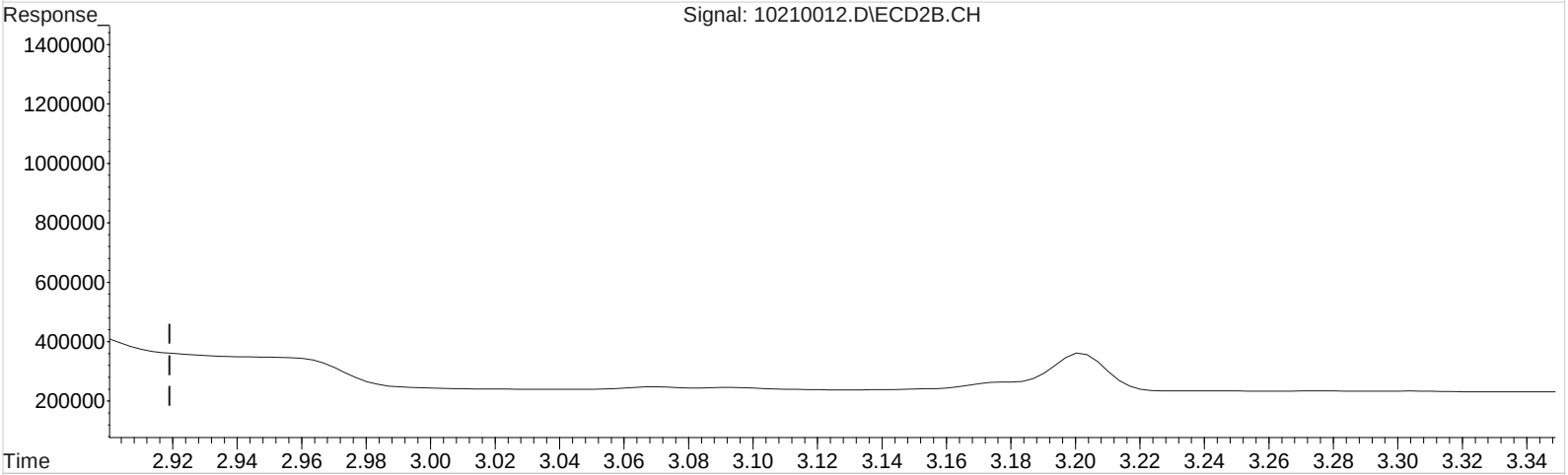
1st UA 10/21/20
2nd 10/22/20

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

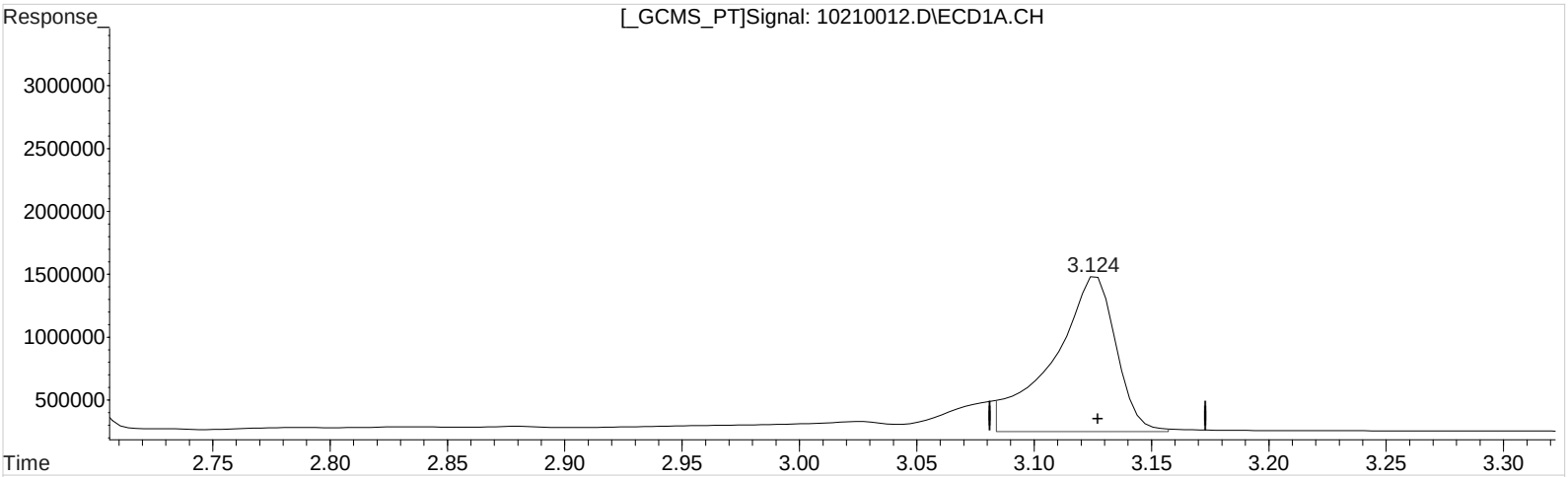
Quantitation Report (Qedit)

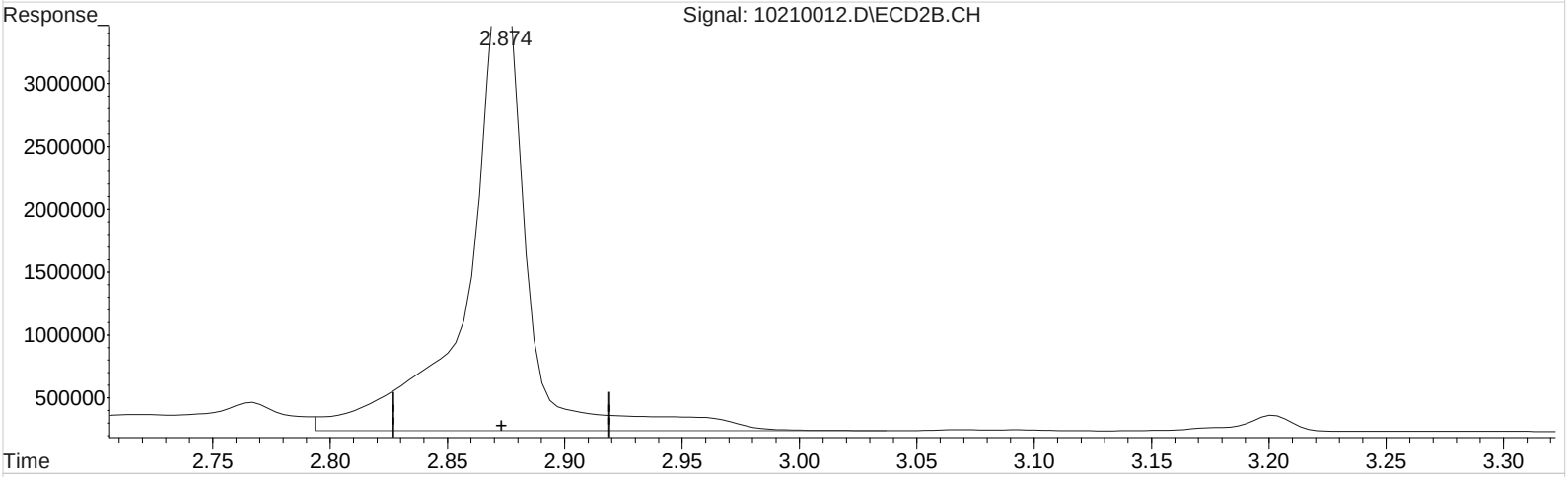
1st UA 10/21/20
2nd 10/22/20

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

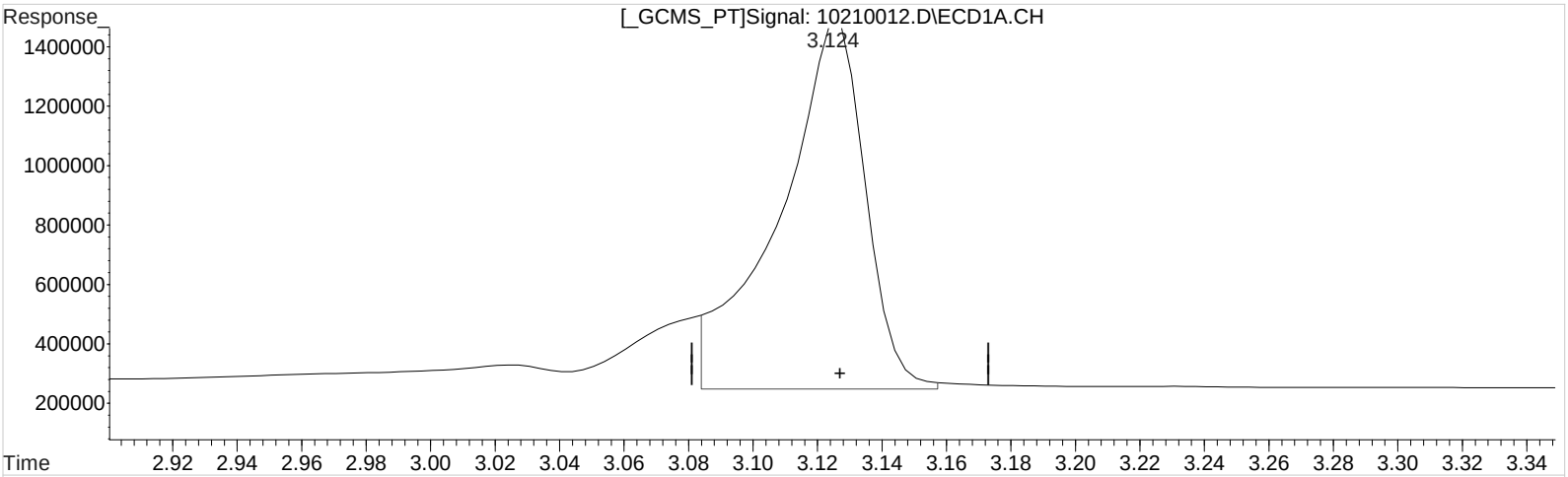
Quantitation Report (Qedit)

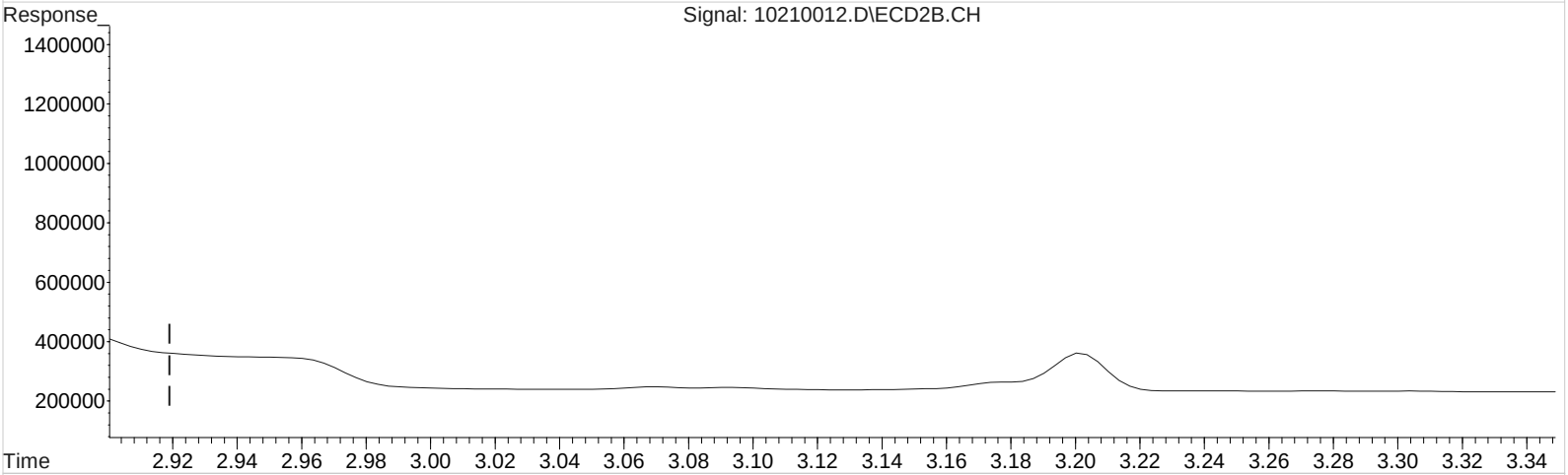
1st UA 10/21/20
2nd 10/22/20

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

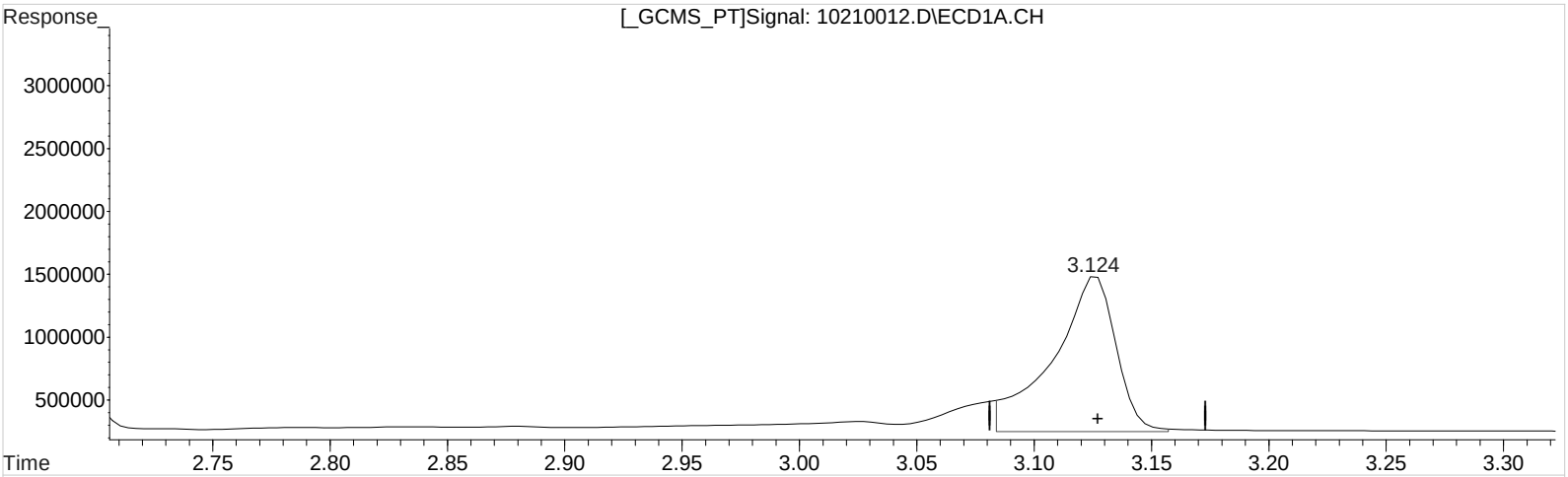
Quantitation Report (Qedit)

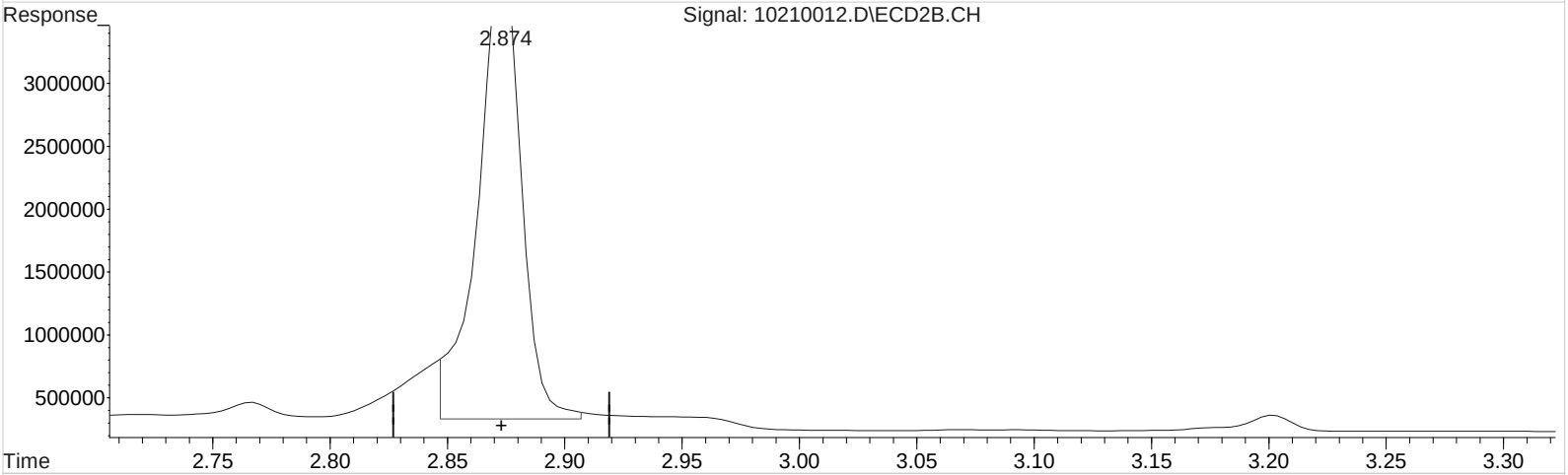
1st UA 10/21/20
2nd 10/22/20

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	11160001	F:01:01		CCV PRIMER
No	2	Vial 100	8151A-17	11160002	F:02:01		CCV PRIMER
No	3	Vial 2	8151A-17	11160003	F:03:01		PENTA2-14N 100PB
No	4	Vial 1	8151A-17	11160004	F:04:01		IB
No	5	none	STANDBY	11160005	F:05:01		STANBY
No	6	Vial 24	8151A-17	11160006	F:06:01		K2010069-013
No	7	Vial 25	8151A-17	11160007	F:07:01		K2010069-014
No	8	Vial 26	8151A-17	11160008	F:08:01		K2010069-015
No	9	Vial 27	8151A-17	11160009	F:09:01		K2010069-016
No	10	Vial 28	8151A-17	11160010	F:10:01		KQ2017247-01MS
No	11	Vial 29	8151A-17	11160011	F:11:01		KQ2017247-02DMS
No	12	Vial 30	8151A-17	11160012	F:12:01		K2010069-009 10X
No	13	Vial 31	8151A-17	11160013	F:13:01		K2010069-010 10X
No	14	Vial 32	8151A-17	11160014	F:14:01		K2010069-011 10X
No	15	Vial 33	8151A-17	11160015	F:15:01		K2010069-012 10X
No	16	Vial 2	8151A-17	11160016	F:16:01		PENTA2-14N 100PB
No	17	Vial 1	8151A-17	11160017	F:17:01		IB
No	18	Vial 34	8151A-17	11160018	F:18:01		KQ2017248-04MB
No	19	Vial 35	8151A-17	11160019	F:19:01		KQ2017248-03LCS
No	20	Vial 36	8151A-17	11160020	F:20:01		K2010070-001
No	21	Vial 37	8151A-17	11160021	F:21:01		K2010070-002
No	22	Vial 38	8151A-17	11160022	F:22:01		K2010070-003
No	23	Vial 39	8151A-17	11160023	F:23:01		K2010070-004
No	24	Vial 40	8151A-17	11160024	F:24:01		K2010070-005
No	25	Vial 41	8151A-17	11160025	F:25:01		K2010070-006
No	26	Vial 42	8151A-17	11160026	F:26:01		K2010070-007
No	27	Vial 43	8151A-17	11160027	F:27:01		K2010070-008
No	28	Vial 2	8151A-17	11160028	F:28:01		PENTA2-14N 100PB
No	29	Vial 1	8151A-17	11160029	F:29:01		IB
No	30	Vial 44	8151A-17	11160030	F:30:01		K2010070-009
No	31	Vial 45	8151A-17	11160031	F:31:01		K2010070-010
No	32	Vial 46	8151A-17	11160032	F:32:01		K2010070-011
No	33	Vial 47	8151A-17	11160033	F:33:01		K2010070-012
No	34	Vial 48	8151A-17	11160034	F:34:01		K2010070-013
No	35	Vial 49	8151A-17	11160035	F:35:01		K2010070-014
No	36	Vial 50	8151A-17	11160036	F:36:01		K2010070-015
No	37	Vial 2	8151A-17	11160037	F:37:01		PENTA2-14N 100PB
No	38	Vial 1	8151A-17	11160038	F:38:01		IB
No	39	Vial 51	8151A-17	11160039	F:39:01		K2010070-016
No	40	Vial 52	8151A-17	11160040	F:40:01		K2010070-017
No	41	Vial 53	8151A-17	11160041	F:41:01		K2010070-018
No	42	Vial 54	8151A-17	11160042	F:42:01		K2010070-019
No	43	Vial 55	8151A-17	11160043	F:43:01		KQ2017248-01MS
No	44	Vial 56	8151A-17	11160044	F:44:01		KQ2017248-02DMS
No	45	Vial 2	8151A-17	11160045	F:45:01		PENTA2-14N 100PB
No	46	Vial 1	8151A-17	11160046	F:46:01		IB
No	47	none	STANDBY	11160047	F:47:01		STANBY

Lot#: KC2500566
Run #: 703644

DILUTION LOG

LAB ID.	ALIQUOT	FINAL VOLUME	DILUTION FACTOR	DATE	By:	Solvent Lot #	COMMENTS / Ext. Date
K2010069-09	100 ul	1ml	10x	11-16-20	UA	150-04 ... DZ155	Bad matrix
-10							
-11							
-12							

UA 11-16-20