ALS Environmental
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www.alsglobal.com

December 09, 2020 **Analytical Report for Service Request No:** K2010727

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 18, 2020
For your reference, these analyses have been assigned our service request number **K2010727.**

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

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Table of Contents

Acronyms

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

Inorganic Data Qualifiers

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

Metals Data Qualifiers

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

Organic Data Qualifiers

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

Additional Petroleum Hydrocarbon Specific Qualifiers

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

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

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

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

Case Narrative

ALS Environmental—Kelso Laboratory
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Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Sediment

Service Request: K2010727
Date Received: 11/18/2020

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:

Nine sediment samples were received for analysis at ALS Environmental on 11/18/2020. 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, 12/04/2020:The upper control criterion was exceeded for 2,4,5-TP and 2,4-D in several associated Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analytes in question. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

Approved by Noe D. Oan Date 12/09/2020

Chain of Custody

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K2010727

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20201112-102047

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-009SC-D-00-02-201112	N	SE	11/12/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
002	USMPDI-009SC-D-02-04-201112	N	SE	11/12/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
003	USMPDI-009SC-D-04-06-201112	N	SE	11/12/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
004	USMPDI-009SC-D-06-08-201112	N	SE	11/12/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
005	USMPDI-009SC-D-08-10-201112	N	SE	11/12/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
006	USMPDI-009SC-D-10-12-201112	N	SE	11/12/2020	8:10	2	X				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
007	USMPDI-009SC-D-12-14-201112	N	SE	11/12/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: Sarah Norwood	Print Name: Ed Farrow	Print Name	Print Name	Print Name	Print Name
Company: Anchor QEA	Company: ALS	Company	Company	Company	Company
Date/Time: 11/12/20 1120	Date/Time: 11/18/20 1330	Date/Time	Date/Time	Date/Time	Date/Time

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

Date Printed: 11/12/2020

K2010727

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20201112-102047

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
007	USMPDI-009SC-D-12-14-201112	N	SE	11/12/2020	8:10	1	☐				
								Total Solids (ALS)	SM2540G	30	4°C
008	USMPDI-009SC-D-14-16-201112	N	SE	11/12/2020	8:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
009	USMPDI-1009SC-D-00-02-201112	FD	SE	11/12/2020		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 Norcwood	Print Name K Monroe	Print Name	Print Name	Print Name	Print Name
Company Anchor QEA	Company ALS	Company	Company	Company	Company
Date/Time 11/12/20 1120	Date/Time 1330 11/12/20	Date/Time	Date/Time	Date/Time	Date/Time

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

Date Printed: 11/12/2020

PM MH

Cooler Receipt and Preservation Form

Client Anchor / Service Request K20 10727

Received: 11/18/20 Opened: 11/18/20 By: [illegible] Unloaded: 11/18/20 By: [illegible]

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
3.5		IR01	ACS-20201112702417	—	—		

6. Packing material: *Inserts* (Baggies) (Bubble Wrap) *Gel Packs* (Wet Ice) *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Were samples received in good condition (unbroken) NA (Y) N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA (Y) N
10. Did all sample labels and tags agree with custody papers? NA (Y) N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
14. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

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

Notes, Discrepancies, Resolutions: _____

Total Solids

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20
Sample Matrix:	Sediment	**Date Received:**	11/18/20
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-009SC-D-00-02-201112	K2010727-001	**58.7**	-	-	1	12/03/20 16:35	
USMPDI-009SC-D-02-04-201112	K2010727-002	**63.4**	-	-	1	12/03/20 16:35	
USMPDI-009SC-D-04-06-201112	K2010727-003	**56.9**	-	-	1	12/03/20 16:35	
USMPDI-009SC-D-06-08-201112	K2010727-004	**62.7**	-	-	1	12/03/20 16:35	
USMPDI-009SC-D-08-10-201112	K2010727-005	**65.2**	-	-	1	12/03/20 16:35	
USMPDI-009SC-D-10-12-201112	K2010727-006	**74.6**	-	-	1	12/03/20 16:35	
USMPDI-009SC-D-12-14-201112	K2010727-007	**66.8**	-	-	1	12/03/20 16:35	
USMPDI-009SC-D-14-16-201112	K2010727-008	**70.1**	-	-	1	12/03/20 16:35	
USMPDI-1009SC-D-00-02-201112	K2010727-009	**58.9**	-	-	1	12/03/20 16:35	
Method Blank	K2010727-MB	ND U	-	-	1	12/03/20 16:35	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20
Sample Matrix:	Sediment	**Date Received:**	11/18/20
		Date Analyzed:	12/03/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	USMPDI-009SC-D-02-04-201112	**Units:**	Percent
Lab Code:	K2010727-002	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K2010727-002DUP Result	Average	RPD	RPD Limit
Solids, Total	SM 2540 G	-	-	63.4	63.4	63.4	<1	20

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

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

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

Chlorinated Herbicides

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/18/20 13:30
Sample Name:	USMPDI-009SC-D-00-02-201112	**Units:**	ug/Kg
Lab Code:	K2010727-001	**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	85	4.1	1	12/04/20 05:37	11/19/20	
2,4-D	ND U	85	14	1	12/04/20 05:37	11/19/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	67	26 - 127	12/04/20 05:37	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/18/20 13:30
Sample Name:	USMPDI-009SC-D-02-04-201112	**Units:**	ug/Kg
Lab Code:	K2010727-002	**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	79	3.8	1	12/04/20 06:00	11/19/20	
2,4-D	ND U	79	13	1	12/04/20 06:00	11/19/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	57	26 - 127	12/04/20 06:00	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/18/20 13:30
Sample Name:	USMPDI-009SC-D-04-06-201112	**Units:**	ug/Kg
Lab Code:	K2010727-003	**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	88	4.3	1	12/04/20 06:23	11/19/20	
2,4-D	ND U	88	14	1	12/04/20 06:23	11/19/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	67	26 - 127	12/04/20 06:23	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/18/20 13:30
Sample Name:	USMPDI-009SC-D-06-08-201112	**Units:**	ug/Kg
Lab Code:	K2010727-004	**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	80	3.9	1	12/04/20 06:45	11/19/20	
2,4-D	ND U	80	13	1	12/04/20 06:45	11/19/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	57	26 - 127	12/04/20 06:45	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/18/20 13:30
Sample Name:	USMPDI-009SC-D-08-10-201112	**Units:**	ug/Kg
Lab Code:	K2010727-005	**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	77	3.7	1	12/04/20 07:08	11/19/20	
2,4-D	ND U	77	12	1	12/04/20 07:08	11/19/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	26 - 127	12/04/20 07:08	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/18/20 13:30
Sample Name:	USMPDI-009SC-D-10-12-201112	**Units:**	ug/Kg
Lab Code:	K2010727-006	**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	67	3.3	1	12/04/20 07:31	11/19/20	
2,4-D	ND U	67	11	1	12/04/20 07:31	11/19/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	65	26 - 127	12/04/20 07:31	

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/18/20 13:30
Sample Name:	USMPDI-009SC-D-12-14-201112	**Units:**	ug/Kg
Lab Code:	K2010727-007	**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	75	3.6	1	12/04/20 07:54	11/19/20	
2,4-D	ND U	75	12	1	12/04/20 07:54	11/19/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	26 - 127	12/04/20 07:54	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20 08:10
Sample Matrix:	Sediment	**Date Received:**	11/18/20 13:30
Sample Name:	USMPDI-009SC-D-14-16-201112	**Units:**	ug/Kg
Lab Code:	K2010727-008	**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	71	3.5	1	12/04/20 09:03	11/19/20	
2,4-D	ND U	71	11	1	12/04/20 09:03	11/19/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	63	26 - 127	12/04/20 09:03	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20
Sample Matrix:	Sediment	**Date Received:**	11/18/20 13:30
Sample Name:	USMPDI-1009SC-D-00-02-201112	**Units:**	ug/Kg
Lab Code:	K2010727-009	**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	85	4.1	1	12/04/20 09:26	11/19/20	
2,4-D	ND U	85	14	1	12/04/20 09:26	11/19/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	73	26 - 127	12/04/20 09:26	

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KQ2018343-04	**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	49	2.4	1	12/04/20 02:34	11/19/20	
2,4-D	ND U	49	7.7	1	12/04/20 02:34	11/19/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	60	26 - 127	12/04/20 02:34	

Confirmation Results

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

Service Request: K2010727
Date Collected: 11/12/20 08:10
Date Received: 11/18/20

Sample Name: USMPDI-009SC-D-00-02-201112
Lab Code: KQ2018343-01

Units: ug/Kg
Basis: Dry
Percent Solids: 58.7

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	4.1	175	247	34		1	12/04/20 10:57
2,4-D	14	178	227	24		1	12/04/20 10:57

Confirmation Results

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

Service Request: K2010727
Date Collected: 11/12/20 08:10
Date Received: 11/18/20

Sample Name: USMPDI-009SC-D-00-02-201112
Lab Code: KQ2018343-02

Units: ug/Kg
Basis: Dry
Percent Solids: 58.7

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	4.1	172	242	34		1	12/04/20 11:20
2,4-D	14	173	212	20		1	12/04/20 11:20

Confirmation Results

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

Service Request: K2010727
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2018343-03

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	112	134	18		1	12/04/20 02:57
2,4-D	7.7	109	131	18		1	12/04/20 02:57

Client: Anchor QEA, LLC **Service Request:** K2010727

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-009SC-D-00-02-201112	K2010727-001	67
USMPDI-009SC-D-02-04-201112	K2010727-002	57
USMPDI-009SC-D-04-06-201112	K2010727-003	67
USMPDI-009SC-D-06-08-201112	K2010727-004	57
USMPDI-009SC-D-08-10-201112	K2010727-005	66
USMPDI-009SC-D-10-12-201112	K2010727-006	65
USMPDI-009SC-D-12-14-201112	K2010727-007	54
USMPDI-009SC-D-14-16-201112	K2010727-008	63
USMPDI-1009SC-D-00-02-201112	K2010727-009	73
Method Blank	KQ2018343-04	60
Lab Control Sample	KQ2018343-03	69
USMPDI-009SC-D-00-02-201112	KQ2018343-01	64
USMPDI-009SC-D-00-02-201112	KQ2018343-02	65

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/12/20
Sample Matrix:	Sediment	**Date Received:**	11/18/20
		Date Analyzed:	12/4/20
		Date Extracted:	11/19/20

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name:	USMPDI-009SC-D-00-02-201112	**Units:**	ug/Kg
Lab Code:	K2010727-001	**Basis:**	Dry
Analysis Method:	8151A		
Prep Method:	Method		

		Matrix Spike			Duplicate Matrix Spike					
		KQ2018343-01			KQ2018343-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-TP	ND U	175	284	62	172	283	61	34-129	2	40
2,4-D	ND U	178	284	63	173	283	61	35-129	3	40

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

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

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

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

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/04/20
Sample Matrix:	Sediment	**Date Extracted:**	11/19/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Units:**	ug/Kg
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	705934

Lab Control Sample
KQ2018343-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP	112	167	67	46-125
2,4-D	109	167	65	46-120

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Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/04/20 02:34
Sample Matrix:	Sediment	**Date Extracted:**	11/19/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	K-GC-24
Lab Code:	KQ2018343-04	**File ID:**	J:\gc24\data\120320\12030037.D\
Analysis Method:	8151A	**Analysis Lot:**	705934
Prep Method:	Method	**Extraction Lot:**	370120

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2018343-03	J:\gc24\data\120320\12030038.D\	12/04/20 02:57
USMPDI-009SC-D-00-02-201112	K2010727-001	J:\gc24\data\120320\12030045.D\	12/04/20 05:37
USMPDI-009SC-D-02-04-201112	K2010727-002	J:\gc24\data\120320\12030046.D\	12/04/20 06:00
USMPDI-009SC-D-04-06-201112	K2010727-003	J:\gc24\data\120320\12030047.D\	12/04/20 06:23
USMPDI-009SC-D-06-08-201112	K2010727-004	J:\gc24\data\120320\12030048.D\	12/04/20 06:45
USMPDI-009SC-D-08-10-201112	K2010727-005	J:\gc24\data\120320\12030049.D\	12/04/20 07:08
USMPDI-009SC-D-10-12-201112	K2010727-006	J:\gc24\data\120320\12030050.D\	12/04/20 07:31
USMPDI-009SC-D-12-14-201112	K2010727-007	J:\gc24\data\120320\12030051.D\	12/04/20 07:54
USMPDI-009SC-D-14-16-201112	K2010727-008	J:\gc24\data\120320\12030054.D\	12/04/20 09:03
USMPDI-1009SC-D-00-02-201112	K2010727-009	J:\gc24\data\120320\12030055.D\	12/04/20 09:26
USMPDI-009SC-D-00-02-201112MS	KQ2018343-01	J:\gc24\data\120320\12030059.D\	12/04/20 10:57
USMPDI-009SC-D-00-02-201112DMS	KQ2018343-02	J:\gc24\data\120320\12030060.D\	12/04/20 11:20

ALS Group USA, Corp.
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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/04/20 02:57
Sample Matrix:	Sediment	**Date Extracted:**	11/19/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-24
Lab Code:	KQ2018343-03	**File ID:**	J:\gc24\data\120320\12030038.D\
Analysis Method:	8151A	**Analysis Lot:**	705934
Prep Method:	Method	**Extraction Lot:**	370120

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2018343-04	J:\gc24\data\120320\12030037.D\	12/04/20 02:34
USMPDI-009SC-D-00-02-201112	K2010727-001	J:\gc24\data\120320\12030045.D\	12/04/20 05:37
USMPDI-009SC-D-02-04-201112	K2010727-002	J:\gc24\data\120320\12030046.D\	12/04/20 06:00
USMPDI-009SC-D-04-06-201112	K2010727-003	J:\gc24\data\120320\12030047.D\	12/04/20 06:23
USMPDI-009SC-D-06-08-201112	K2010727-004	J:\gc24\data\120320\12030048.D\	12/04/20 06:45
USMPDI-009SC-D-08-10-201112	K2010727-005	J:\gc24\data\120320\12030049.D\	12/04/20 07:08
USMPDI-009SC-D-10-12-201112	K2010727-006	J:\gc24\data\120320\12030050.D\	12/04/20 07:31
USMPDI-009SC-D-12-14-201112	K2010727-007	J:\gc24\data\120320\12030051.D\	12/04/20 07:54
USMPDI-009SC-D-14-16-201112	K2010727-008	J:\gc24\data\120320\12030054.D\	12/04/20 09:03
USMPDI-1009SC-D-00-02-201112	K2010727-009	J:\gc24\data\120320\12030055.D\	12/04/20 09:26
USMPDI-009SC-D-00-02-201112MS	KQ2018343-01	J:\gc24\data\120320\12030059.D\	12/04/20 10:57
USMPDI-009SC-D-00-02-201112DMS	KQ2018343-02	J:\gc24\data\120320\12030060.D\	12/04/20 11:20

Client: Anchor QEA, LLC **Service Request:** K2010727
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: K2010727
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:** K2010727
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: K2010727
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:** K2010727
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:** K2010727
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:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/04/20 03:42

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120320\12030040.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705934
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	103	9.368E4	1.01E5	7.8	NA	±20	Average RF
2,4-D	94.0	101	2.124E4	2.279E4	7.3	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	95.9	1.82E4	1.744E4	-4.1	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/04/20 03:42

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120320\12030040.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705934
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	124	2.03E5	2.651E5	30.6*	NA	±20	Average RF
2,4-D	94.0	119	5.12E4	6.482E4	26.6*	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	105	4.23E4	4.456E4	5.4	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/04/20 08:17

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120320\12030052.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705934
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	98.9	9.368E4	9.741E4	4.0	NA	±20	Average RF
2,4-D	94.0	94.7	2.124E4	2.14E4	0.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	96.0	1.82E4	1.748E4	-4.0	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/04/20 08:17

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120320\12030052.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705934
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	122	2.03E5	2.602E5	28.2*	NA	±20	Average RF
2,4-D	94.0	114	5.12E4	6.214E4	21.4*	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	103	4.23E4	4.365E4	3.2	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/04/20 12:06

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120320\12030062.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705934
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	93.7	9.368E4	9.235E4	-1.4	NA	±20	Average RF
2,4-D	94.0	90.2	2.124E4	2.037E4	-4.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	90.2	1.82E4	1.642E4	-9.8	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010727
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/04/20 12:06

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120320\12030062.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705934
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	118	2.03E5	2.527E5	24.5*	NA	±20	Average RF
2,4-D	94.0	116	5.12E4	6.344E4	23.9*	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	107	4.23E4	4.519E4	6.8	NA	±20	Average RF

Client: Anchor QEA, LLC **Service Request:**K2010727
Project: GascoSiltronic: US Moorings

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**705934
Instrument ID:K-GC-24

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\gc24\data\120320\12030037.D\	Method Blank	KQ2018343-04	12/4/2020	02:34:00	
J:\gc24\data\120320\12030038.D\	Lab Control Sample	KQ2018343-03	12/4/2020	02:57:00	
J:\gc24\data\120320\12030040.D\	Continuing Calibration Verification	KQ2019401-01	12/4/2020	03:42:00	
J:\gc24\data\120320\12030041.D\	Continuing Calibration Blank	KQ2019401-02	12/4/2020	04:05:00	
J:\gc24\data\120320\12030042.D\	ZZZZZZZ	ZZZZZZZ	12/4/2020	04:28:00	
J:\gc24\data\120320\12030043.D\	ZZZZZZZ	ZZZZZZZ	12/4/2020	04:51:00	
J:\gc24\data\120320\12030044.D\	ZZZZZZZ	ZZZZZZZ	12/4/2020	05:14:00	
J:\gc24\data\120320\12030045.D\	USMPDI-009SC-D-00-02-201112	K2010727-001	12/4/2020	05:37:00	
J:\gc24\data\120320\12030046.D\	USMPDI-009SC-D-02-04-201112	K2010727-002	12/4/2020	06:00:00	
J:\gc24\data\120320\12030047.D\	USMPDI-009SC-D-04-06-201112	K2010727-003	12/4/2020	06:23:00	
J:\gc24\data\120320\12030048.D\	USMPDI-009SC-D-06-08-201112	K2010727-004	12/4/2020	06:45:00	
J:\gc24\data\120320\12030049.D\	USMPDI-009SC-D-08-10-201112	K2010727-005	12/4/2020	07:08:00	
J:\gc24\data\120320\12030050.D\	USMPDI-009SC-D-10-12-201112	K2010727-006	12/4/2020	07:31:00	
J:\gc24\data\120320\12030051.D\	USMPDI-009SC-D-12-14-201112	K2010727-007	12/4/2020	07:54:00	
J:\gc24\data\120320\12030052.D\	Continuing Calibration Verification	KQ2019401-03	12/4/2020	08:17:00	
J:\gc24\data\120320\12030053.D\	Continuing Calibration Blank	KQ2019401-04	12/4/2020	08:40:00	
J:\gc24\data\120320\12030054.D\	USMPDI-009SC-D-14-16-201112	K2010727-008	12/4/2020	09:03:00	
J:\gc24\data\120320\12030055.D\	USMPDI-1009SC-D-00-02-201112	K2010727-009	12/4/2020	09:26:00	
J:\gc24\data\120320\12030056.D\	ZZZZZZZ	ZZZZZZZ	12/4/2020	09:49:00	
J:\gc24\data\120320\12030057.D\	ZZZZZZZ	ZZZZZZZ	12/4/2020	10:12:00	
J:\gc24\data\120320\12030058.D\	ZZZZZZZ	ZZZZZZZ	12/4/2020	10:35:00	
J:\gc24\data\120320\12030059.D\	USMPDI-009SC-D-00-02-201112 MS	KQ2018343-01	12/4/2020	10:57:00	
J:\gc24\data\120320\12030060.D\	USMPDI-009SC-D-00-02-201112 DMS	KQ2018343-02	12/4/2020	11:20:00	
J:\gc24\data\120320\12030061.D\	ZZZZZZZ	ZZZZZZZ	12/4/2020	11:43:00	
J:\gc24\data\120320\12030062.D\	Continuing Calibration Verification	KQ2019401-05	12/4/2020	12:06:00	
J:\gc24\data\120320\12030063.D\	Continuing Calibration Blank	KQ2019401-06	12/4/2020	12:29:00	

Prep Summary Report

Client: Anchor QEA, LLC **Service Request:**K2010727
Project: GascoSiltronic: US Moorings
Sample Matrix: Sediment

Chlorinated Herbicides by GC

Prep Method: Method **Extraction Lot:** 370120
Analytical Method: 8151A **Extraction Date:** 11/19/20 14:40

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-009SC-D-00-02-201112	K2010727-001	11/12/20	11/18/20	30.021 g	50 mL	58.7
USMPDI-009SC-D-02-04-201112	K2010727-002	11/12/20	11/18/20	30.023 g	50 mL	63.4
USMPDI-009SC-D-04-06-201112	K2010727-003	11/12/20	11/18/20	30.087 g	50 mL	56.9
USMPDI-009SC-D-06-08-201112	K2010727-004	11/12/20	11/18/20	30.048 g	50 mL	62.7
USMPDI-009SC-D-08-10-201112	K2010727-005	11/12/20	11/18/20	30.050 g	50 mL	65.2
USMPDI-009SC-D-10-12-201112	K2010727-006	11/12/20	11/18/20	30.025 g	50 mL	74.6
USMPDI-009SC-D-12-14-201112	K2010727-007	11/12/20	11/18/20	30.066 g	50 mL	66.8
USMPDI-009SC-D-14-16-201112	K2010727-008	11/12/20	11/18/20	30.011 g	50 mL	70.1
USMPDI-1009SC-D-00-02-201112	K2010727-009	11/12/20	11/18/20	30.045 g	50 mL	58.9
Matrix Spike	KQ2018343-01MS	11/12/20	11/18/20	30.040 g	50 mL	58.7
Duplicate Matrix Spike	KQ2018343-02DMS	11/12/20	11/18/20	30.075 g	50 mL	58.7
Lab Control Sample	KQ2018343-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2018343-04MB	NA	NA	30.4630 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:** 705791 **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
K2010727-001	Solids, Total	N/A		Sediment	58.70 Percent	25.7993 g	58.7 Percent	1					12/3/20 16:35:00	N	IV
K2010727-002	Solids, Total	N/A		Sediment	63.40 Percent	32.8297 g	63.4 Percent	1					12/3/20 16:35:00	N	IV
K2010727-003	Solids, Total	N/A		Sediment	56.90 Percent	38.8353 g	56.9 Percent	1					12/3/20 16:35:00	N	IV
K2010727-004	Solids, Total	N/A		Sediment	62.70 Percent	32.0606 g	62.7 Percent	1					12/3/20 16:35:00	N	IV
K2010727-005	Solids, Total	N/A		Sediment	65.20 Percent	30.2451 g	65.2 Percent	1					12/3/20 16:35:00	N	IV
K2010727-006	Solids, Total	N/A		Sediment	74.60 Percent	35.3686 g	74.6 Percent	1					12/3/20 16:35:00	N	IV
K2010727-007	Solids, Total	N/A		Sediment	66.80 Percent	29.5153 g	66.8 Percent	1					12/3/20 16:35:00	N	IV
K2010727-008	Solids, Total	N/A		Sediment	70.10 Percent	31.3494 g	70.1 Percent	1					12/3/20 16:35:00	N	IV
K2010727-009	Solids, Total	N/A		Sediment	58.90 Percent	26.1391 g	58.9 Percent	1					12/3/20 16:35:00	N	IV
KQ2019284-01	Solids, Total	DUP	K2010727-002	Sediment	63.40 Percent	33.3557 g	63.4 Percent	1				<1	12/3/20 16:35:00	N	IV
KQ2019284-02	Solids, Total	MB		Sediment	0.00 Percent	50.1678 g	0.0 Percent	1					12/3/20 16:35:00	N	IV

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

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2010727 Method: SM 2540 G

Run: 705791

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

Sample Number		MB	727-001	727-002	727-002DUP	727-003	727-004
Crucible Number		2	7MM	10	21	17	3U
SampleWeight		50.1678	25.7993	32.8297	33.3557	38.8353	32.0606
Tare Weight	Date	51.9276	60.9701	52.8169	53.8888	51.6560	57.2204
Tare + Dry Wt. (1)	12/4/2020	51.9246	76.1134	73.6098	75.0409	73.7663	77.3111
Tare + Dry Wt. (2)	12/4/2020	51.9235	76.1165	73.6155	75.0456	73.7713	77.3139
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	58.7%	63.4%	63.4%	56.9%	62.7%
Volatile Solids		-1266426.8%	502.5%	353.9%	354.7%	333.6%	384.8%

Sample Number		727-005	727-006	727-007	727-008	727-009	
Crucible Number		23	TYLER	408	JASPER	NATO	
Sample Weight		30.2451	35.3686	29.5153	31.3494	26.1391	
Tare Weight	Date	52.9453	50.7390	76.6116	47.7736	59.1466	
Tare + Dry Wt. (1)	12/4/2020	72.6558	77.1288	96.3321	69.7565	74.5417	
Tare + Dry Wt. (2)	12/4/2020	72.6617	77.1318	96.3381	69.7604	74.5442	
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		65.2%	74.6%	66.8%	70.1%	58.9%	#DIV/0!
Volatile Solids		368.5%	292.2%	488.4%	317.3%	484.1%	#DIV/0!

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

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

Comments:

105 oven: K - OVEN 07

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

Analyzed By:	BN	Date:	12/3/2020
Reviewed By:		Date:	12/4/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2010727 Method: SM 2540 G

Run: 705791

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

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	16:35	12/3/2020	9:50	12/4/2020
105	9:50	12/4/2020	11:00	12/4/2020

Analyzed By:	BN	Date Analyzed:	12/3/2020
Reviewed By:		Date Reviewed:	12/4/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2010727 Method: SM 2540 G

Run: 705791

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

CCV Verification SN:1000122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9965	100.0%	CCV1	9.9986	100.0%	12/3/2020
CCV2	199.9965	100.0%	CCV2	9.9985	100.0%	12/3/2020
CCV3	199.9955	100.0%	CCV3	9.9986	100.0%	12/4/2020
CCV4	199.9963	100.0%	CCV4	9.9992	100.0%	12/4/2020
CCV5	199.9961	100.0%	CCV5	9.9991	100.0%	12/4/2020
CCV6	199.9974	100.0%	CCV6	9.9991	100.0%	12/4/2020
~~CCV7~~		~~0.0%~~	~~CCV7~~		~~0.0%~~	
~~CCV8~~		~~0.0%~~	~~CCV8~~		~~0.0%~~	
~~CCV9~~		~~0.0%~~	~~CCV9~~		~~0.0%~~	
~~CCV10~~		~~0.0%~~	~~CCV10~~		~~0.0%~~	
~~CCV11~~		~~0.0%~~	~~CCV11~~		~~0.0%~~	
~~CCV12~~		~~0.0%~~	~~CCV12~~		~~0.0%~~	
~~CCV13~~		~~0.0%~~	~~CCV13~~		~~0.0%~~	
~~CCV14~~		~~0.0%~~	~~CCV14~~		~~0.0%~~	
~~CCV15~~		~~0.0%~~	~~CCV15~~		~~0.0%~~	
~~CCV16~~		~~0.0%~~	~~CCV16~~		~~0.0%~~	
~~CCV17~~		~~0.0%~~	~~CCV17~~		~~0.0%~~	
~~CCV18~~		~~0.0%~~	~~CCV18~~		~~0.0%~~	
~~CCV19~~		~~0.0%~~	~~CCV19~~		~~0.0%~~	
~~CCV20~~		~~0.0%~~	~~CCV20~~		~~0.0%~~	

Analyzed By:	BN	Date Analyzed:	12/3/2020
Reviewed By:		Date Reviewed:	12/4/20

Chlorinated Herbicides

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#: 370120
Team: Semivoa GC/BGREER
Number of Copies to make: 4

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/19/20 14:40

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2010250-001	COMP1S	.01	8151A/HERB		Soil	30.463g	50.00mL	LAGUILAR K-BALANCE-55
2	K2010250-002	COMP1D	.01	8151A/HERB		Soil	30.407g	50.00mL	LAGUILAR K-BALANCE-55
3	K2010250-003	COMP2S	.01	8151A/HERB		Soil	30.401g	50.00mL	LAGUILAR K-BALANCE-55
4	K2010250-004	COMP2D	.01	8151A/HERB		Soil	30.120g	50.00mL	LAGUILAR K-BALANCE-55
5	K2010638-001	250649	.01	8151A/HERB		Misc. Solid	30.593g	50.00mL	JGRIMES K-Balance-49
6	K2010727-001	USMPDI-009SC-D-00-02-201112	.01	8151A/HERB		Sediment	30.021g	50.00mL	LMORTENSEN K-BALANCE-48
7	K2010727-002	USMPDI-009SC-D-02-04-201112	.01	8151A/HERB		Sediment	30.023g	50.00mL	LMORTENSEN K-BALANCE-48
8	K2010727-003	USMPDI-009SC-D-04-06-201112	.01	8151A/HERB		Sediment	30.087g	50.00mL	LMORTENSEN K-BALANCE-48
9	K2010727-004	USMPDI-009SC-D-06-08-201112	.01	8151A/HERB		Sediment	30.048g	50.00mL	LMORTENSEN K-BALANCE-48
10	K2010727-005	USMPDI-009SC-D-08-10-201112	.01	8151A/HERB		Sediment	30.050g	50.00mL	LMORTENSEN K-BALANCE-48
11	K2010727-006	USMPDI-009SC-D-10-12-201112	.01	8151A/HERB		Sediment	30.025g	50.00mL	LMORTENSEN K-BALANCE-48
12	K2010727-007	USMPDI-009SC-D-12-14-201112	.01	8151A/HERB		Sediment	30.066g	50.00mL	LMORTENSEN K-BALANCE-48
13	K2010727-008	USMPDI-009SC-D-14-16-201112	.01	8151A/HERB		Sediment	30.011g	50.00mL	LMORTENSEN K-BALANCE-48
14	K2010727-009	USMPDI-1009SC-D-00-02-201112	.01	8151A/HERB		Sediment	30.045g	50.00mL	LMORTENSEN K-BALANCE-48
15	K2010728-021	USMPDI-011SC-D-08-10-201111	.01	8151A/HERB		Sediment	30.068g	50.00mL	LMORTENSEN K-BALANCE-48
16	K2010728-022	USMPDI-011SC-D-10-12-201111	.01	8151A/HERB		Sediment	30.031g	50.00mL	LMORTENSEN K-BALANCE-48
17	K2010728-023	USMPDI-011SC-D-12-13.5-201111	.01	8151A/HERB		Sediment	30.009g	50.00mL	LMORTENSEN K-BALANCE-48
18	KQ2018343-01	K2010727-001 MS	.01	8151A/HERB		Solid	30.040g	50.00mL	LMORTENSEN K-BALANCE-48
19	KQ2018343-02	K2010727-001 DMS	.01	8151A/HERB		Solid	30.075g	50.00mL	LMORTENSEN K-BALANCE-48
20	KQ2018343-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	
21	KQ2018343-04	MB		8151A/HERB		Solid	30.4630g	50.00mL	

Spiking Solutions

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

KQ2018343-01 1,000.00µL KQ2018343-02 1,000.00µL KQ2018343-03 1,000.00µL

Preparation Steps

Step: Weigh
Started: 11/19/20 14:40
Finished: 11/25/20 14:15
By: BGREER
Comments

Step: Extraction
Started: 11/25/20 11:55
Finished: 11/25/20 13:00
By: BGREER
Comments

Step: Derivitization
Started: 12/2/20 09:00
Finished: 12/2/20 09:30
By: TNORRIS
Comments

Step: Final Volume
Started: 12/2/20 09:30
Finished: 12/2/20 13:00
By: TNORRIS
Comments

Preparation Information Benchsheet

Prep Run#: 370120
Team: Semivoa GC/BGREER

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/19/20 14:40

Comments: Hufflepuff C1-[illegible] E1

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: [signature] Date: 12/2/20

Received By: _____ Date: _____

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 370120
Team: Semivoa GC/BGREER
Number of Copies to make: 4

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/19/20 14:40

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2010250-001	COMP1S	.01	8151A/HERB		Soil	30.463g	50.00mL	LAGUILAR K-BALANCE-55
2	K2010250-002	COMP1D	.01	8151A/HERB		Soil	30.407g	50.00mL	LAGUILAR K-BALANCE-55
3	K2010250-003	COMP2S	.01	8151A/HERB		Soil	30.401g	50.00mL	LAGUILAR K-BALANCE-55
4	K2010250-004	COMP2D	.01	8151A/HERB		Soil	30.120g	50.00mL	LAGUILAR K-BALANCE-55
5	K2010638-001	250649	.01	8151A/HERB		Misc. Solid	30.593g	50.00mL	JGRIMES K-Balance-49
6	K2010727-001	USMPDI-009SC-D-00-02-201112	.01	8151A/HERB		Sediment	30.021g	50.00mL	LMORTENSEN K-BALANCE-48
7	K2010727-002	USMPDI-009SC-D-02-04-201112	.01	8151A/HERB		Sediment	30.023g	50.00mL	LMORTENSEN K-BALANCE-48
8	K2010727-003	USMPDI-009SC-D-04-06-201112	.01	8151A/HERB		Sediment	30.087g	50.00mL	LMORTENSEN K-BALANCE-48
9	K2010727-004	USMPDI-009SC-D-06-08-201112	.01	8151A/HERB		Sediment	30.048g	50.00mL	LMORTENSEN K-BALANCE-48
10	K2010727-005	USMPDI-009SC-D-08-10-201112	.01	8151A/HERB		Sediment	30.050g	50.00mL	LMORTENSEN K-BALANCE-48
11	K2010727-006	USMPDI-009SC-D-10-12-201112	.01	8151A/HERB		Sediment	30.025g	50.00mL	LMORTENSEN K-BALANCE-48
12	K2010727-007	USMPDI-009SC-D-12-14-201112	.01	8151A/HERB		Sediment	30.066g	50.00mL	LMORTENSEN K-BALANCE-48
13	K2010727-008	USMPDI-009SC-D-14-16-201112	.01	8151A/HERB		Sediment	30.011g	50.00mL	LMORTENSEN K-BALANCE-48
14	K2010727-009	USMPDI-1009SC-D-00-02-201112	.01	8151A/HERB		Sediment	30.045g	50.00mL	LMORTENSEN K-BALANCE-48
15	K2010728-021	USMPDI-011SC-D-08-10-201111	.01	8151A/HERB		Sediment	30.068g	50.00mL	LMORTENSEN K-BALANCE-48
16	K2010728-022	USMPDI-011SC-D-10-12-201111	.01	8151A/HERB		Sediment	30.031g	50.00mL	LMORTENSEN K-BALANCE-48
17	K2010728-023	USMPDI-011SC-D-12-13.5-201111	.01	8151A/HERB		Sediment	30.009g	50.00mL	LMORTENSEN K-BALANCE-48
18	KQ2018343-01	K2010727-001 MS	.01	8151A/HERB		Solid	30.040g	50.00mL	LMORTENSEN K-BALANCE-48
19	KQ2018343-02	K2010727-001 DMS	.01	8151A/HERB		Solid	30.075g	50.00mL	LMORTENSEN K-BALANCE-48
20	KQ2018343-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	
21	KQ2018343-04	MB		8151A/HERB		Solid	30.4630g	50.00mL	

Spiking Solutions

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

KQ2018343-01 1,000.00µL KQ2018343-02 1,000.00µL KQ2018343-03 1,000.00µL

Preparation Steps

Step: Weigh
Started: 11/19/20 14:40
Finished: 11/25/20 14:15
By: BGREER
Comments

Step: Extraction
Started: 11/25/20 11:55
Finished: 11/25/20 13:00
By: BGREER
Comments

Step: Derivitization
Started: 12/2/20 09:00
Finished: 12/2/20 09:30
By: TNORRIS
Comments

Step: Final Volume
Started: 12/2/20 09:30
Finished: 12/2/20 13:00
By: TNORRIS
Comments

Preparation Information Benchsheet

Prep Run#: 370120
Team: Semivoa GC/BGREER

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/19/20 14:40

Comments: Hufflepuff C1 - [redacted] 51

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: Mom Date: 12/2/20

Received By: _____ Date: _____

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 370120
Team: Semivoa GC/BGREER
Number of Copies to make: 4

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Draft
Prep Date/Time: 11/19/20 14:40 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	K2010250-001	COMP1S	.01	/	8151A / HERB	Soil	*	N/A		50	1000	1
2	K2010250-002	COMP1D	.01	/	8151A / HERB	Soil	*			50		
3	K2010250-003	COMP2S	.01	/	8151A / HERB	Soil	*			50		
4	K2010250-004	COMP2D	.01	/	8151A / HERB	Soil	*			50		
5	K2010638-001	250649	.01	/	8151A / HERB	Misc. Solid	*			50		
6	K2010727-001	USMPDI-009SC-D-00-02-201112	.01	/	8151A / HERB	Sediment	*			50		
7	K2010727-002	USMPDI-009SC-D-02-04-201112	.01	/	8151A / HERB	Sediment	*			50		
8	K2010727-003	USMPDI-009SC-D-04-06-201112	.01	/	8151A / HERB	Sediment	*			50		
9	K2010727-004	USMPDI-009SC-D-06-08-201112	.01	/	8151A / HERB	Sediment	*			50		
10	K2010727-005	USMPDI-009SC-D-08-10-201112	.01	/	8151A / HERB	Sediment	*			50		
11	K2010727-006	USMPDI-009SC-D-10-12-201112	.01	/	8151A / HERB	Sediment	*			50		
12	K2010727-007	USMPDI-009SC-D-12-14-201112	.01	/	8151A / HERB	Sediment	*			50		
13	K2010727-008	USMPDI-009SC-D-14-16-201112	.01	/	8151A / HERB	Sediment	*			50		
14	K2010727-009	USMPDI-1009SC-D-00-02-201112	.01	/	8151A / HERB	Sediment	*			50		
15	K2010728-021	USMPDI-011SC-D-08-10-201111	.01	/	8151A / HERB	Sediment	*			50		
16	K2010728-022	USMPDI-011SC-D-10-12-201111	.01	/	8151A / HERB	Sediment	*			50		
17	K2010728-023	USMPDI-011SC-D-12-13.5-20111	.01	/	8151A / HERB	Sediment	*			50		
18	KQ2018343-01	K2010727-001 MS	.01	/	8151A / HERB	Solid	*			50		1000
19	KQ2018343-02	K2010727-001 DMS	.01	/	8151A / HERB	Solid	*			50		
20	KQ2018343-03	LCS		—	8151A / HERB	Solid	30.000			50		1
21	KQ2018343-04	MB		—	8151A / HERB	Solid	30.463			50	1	—

Comments: *See preprep sheet

Surrogate ID: Penta02-16I 5ppm Ace xp: 5/23/21 1000µL

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

Witnessed By: [signature]

Analyst: BGreer

Assisted By: [signature]

370120

Pre-Prep Information Benchsheet

Prep Run #: ~~370124~~

Container Lot No: 090720-1TW

Prep Due Date: Nov-20-2020

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2010638-001	.01	HERB : 8151A/	30.593g		JGRIMES K-Balance-49
~~2~~ Δ	~~K2010638-001 MS~~ KQ2018356-01	.01	HERB : 8151A/	30.054g		JGRIMES K-Balance-49
~~3~~ Δ	~~K2010638-001 DMS~~ KQ2018356-02	.01	HERB : 8151A/	30.186g		JGRIMES K-Balance-49

ΔExtra QC not needed BG 11/21/20

Relinquished By: JG	Date/Time: 11-19-20 15:51	Received By: BGreer	Date/Time: 11/25/20 0905

Pre-Prep Information Benchsheet

Prep Run #: 370120 **Container Lot No:** 090720-1TW **Prep Due Date:** Nov-23-2020

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2010727-001	.01	HERB : 8151A/	30.021g		LMORTENSEN K-BALANCE-48
2	K2010727-001 MS KQ2018343-01	.01	HERB : 8151A/	30.040g		LMORTENSEN K-BALANCE-48
3	K2010727-001 DMS KQ2018343-02	.01	HERB : 8151A/	30.075g		LMORTENSEN K-BALANCE-48
4	K2010727-002	.01	HERB : 8151A/	30.023g		LMORTENSEN K-BALANCE-48
5	K2010727-003	.01	HERB : 8151A/	30.087g		LMORTENSEN K-BALANCE-48
6	K2010727-004	.01	HERB : 8151A/	30.048g		LMORTENSEN K-BALANCE-48
7	K2010727-005	.01	HERB : 8151A/	30.050g		LMORTENSEN K-BALANCE-48
8	K2010727-006	.01	HERB : 8151A/	30.025g		LMORTENSEN K-BALANCE-48
9	K2010727-007	.01	HERB : 8151A/	30.066g		LMORTENSEN K-BALANCE-48
10	K2010727-008	.01	HERB : 8151A/	30.011g		LMORTENSEN K-BALANCE-48
11	K2010727-009	.01	HERB : 8151A/	30.045g		LMORTENSEN K-BALANCE-48

Relinquished By: LM	Date/Time: 11/19/20 1442	Received By: BGreer	Date/Time: 11/25/20 0905

Pre-Prep Information Benchsheet

Prep Run #: ~~370191~~ 370120

Container Lot No: 083120-1SR

Prep Due Date: Nov-23-2020

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2010728-021	.01	HERB : 8151A/	30.068g		LMORTENSEN K-BALANCE-48
2	~~K2010728-021 MS~~ KQ2018446-01	.01	HERB : 8151A/	30.001g		LMORTENSEN K-BALANCE-48
3	~~K2010728-021 DMS~~ KQ2018446-02	.01	HERB : 8151A/	30.004g		LMORTENSEN K-BALANCE-48
4	K2010728-022	.01	HERB : 8151A/	30.031g		LMORTENSEN K-BALANCE-48
5	K2010728-023	.01	HERB : 8151A/	30.009g		LMORTENSEN K-BALANCE-48

△ Extra QC not needed BG 11/25/20

Relinquished By: LM	Date/Time: 11/20/20 1350	Received By: B Green	Date/Time: 11/25/20 0905

370120

Pre-Prep Information Benchsheet

Prep Run #: ~~370220~~

Container Lot No: 092120-1TW

Prep Due Date: Nov-12-2020

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2010250-001	.01	HERB : 8151A/	30.463g		LAGUILAR K-BALANCE-55
Δ 2	~~K2010250-001MS~~ KQ2018501-01	.01	HERB : 8151A/	30.287g		LAGUILAR K-BALANCE-55
Δ 3	~~K2010250-001DMS~~ KQ2018501-02	.01	HERB : 8151A/	30.260g		LAGUILAR K-BALANCE-55
4	K2010250-002	.01	HERB : 8151A/	30.407g		LAGUILAR K-BALANCE-55
5	K2010250-003	.01	HERB : 8151A/	30.401g		LAGUILAR K-BALANCE-55
6	K2010250-004	.01	HERB : 8151A/	30.120g		LAGUILAR K-BALANCE-55

ΔExtra QC not needed BG 11/24/20

Relinquished By:	11/21/20 19:43 Date/Time:	Received By: BGreer	Date/Time: 11/25/20 0905

Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # K2010750, 0638, 0727, 0728 **Work Group #** KQ2018343

Acidified Sulfate Lot # DZ03-870 Matrix Sand Lot # 012418

Ethyl Ether Lot # DZ487 Hydrochloric Acid Lot # 58242

Wrist Action Shaker Start (time/date/initial): 1155 11/25/20 BG/GL

Wrist Action Shaker Stop (time/date/initial): 1300 11/25/20 BG/GL

N-Evap (time/date/initial): 0811 11/30/20 BG N-Evap Thermometer ID: X-SVM-004

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

Saponification Start (time/date/initial): 0950 11/30/20 BG 37% KOH Lot # DZ03-80M

Saponification Stop (time/date/initial) 1050 11/30/20 BG

Extraction Start (time/date/initial): 1345 11/30/20 BG Sulfuric Acid Lot # DZ03-97H

Extraction Stop (time/date/initial): 1555 11/30/20 BG

Derivatization Start (time/date/initial): 0900 12/2/20 TN Diazomethane Lot # [illegible]

Derivatization Stop (time/date/initial): 0950 12/2/20 TN

Pipette (5 mL) Lot # 04420647

Solvent Exchange to Iso-Octane (time/date/initial): 0910 12/2/20 TN

Iso-Octane Lot # DY169 US N-Evap Thermometer ID: X-SVM-003

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

Pipette (1 mL) Lot # 02206[illegible]

Vial: red Vial Storage:

Archive Storage: Nutty / Cinderella

Additional Comments: completed 1300 12/2/20 TN

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 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030045.D\
Lab ID: K2010727-001
RunType: N/A
Matrix: Sediment

Date Acquired: 12/4/20 05:37:00
Batch ID: 705934
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	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	28		20	CCV+ND
	2,4-D	21		20	CCV+ND

Primary Review: _____

Printed: 12/8/20 17:31
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030045.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 05:37:00	**Vial:**	16
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010727-001	**Raw Units:**	ppb

Bottle ID:	K2010727-001.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	K2010727
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82 -0.01	1218488	3323761	66.962	78.580	67	79	67	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.10 -0.04	32071	382790	0.342	1.886 CCV	0.97U	5.4J	4.1 U	Y
2,4-D	9.33 +0.01	9.03 -0.04	2720	202889	0.128	3.963 CCV	0.36U	11U	14 U	Y

Prep Amount:	30.021 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	58.70

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

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

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

Printed: 12/8/20 17:31
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030045.D Vial: 36
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 5:37 am Operator: UA
Sample : K2001727-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 13:47:47 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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.989	7.823	1218488	3323761	66.962m	78.580
	Target Compounds						
1) m	Dalapon	3.132	2.869	8523	108300	0.351	2.242m#
3) m	Dicamba	8.249	7.939	8754	47657	0.125m	0.322m#
4) m	MCPP	8.312	8.106	70256	93643	2020.628m	N.D. m#
5) m	MCPA	8.562	8.356	3752	120265	64.079m	N.D. #
6) m	Dichloroprop	8.966	8.783	14603	23653	0.783m	0.567 #
7) m	2,4-D	9.332	9.033	2720	202889	0.128m	3.963 #
8) m	2,4,5-TP ...	10.256	10.096	32071	382790	0.342	1.886 #
9) m	2,4,5-T	10.692	10.569	13550	28116	0.164	0.147
10) m	2,4-DB	11.262	11.179	27916	89032	2.721m	3.068
11) m	Dinoseb	11.652	11.343	105113	38744	1.699m	0.283m#

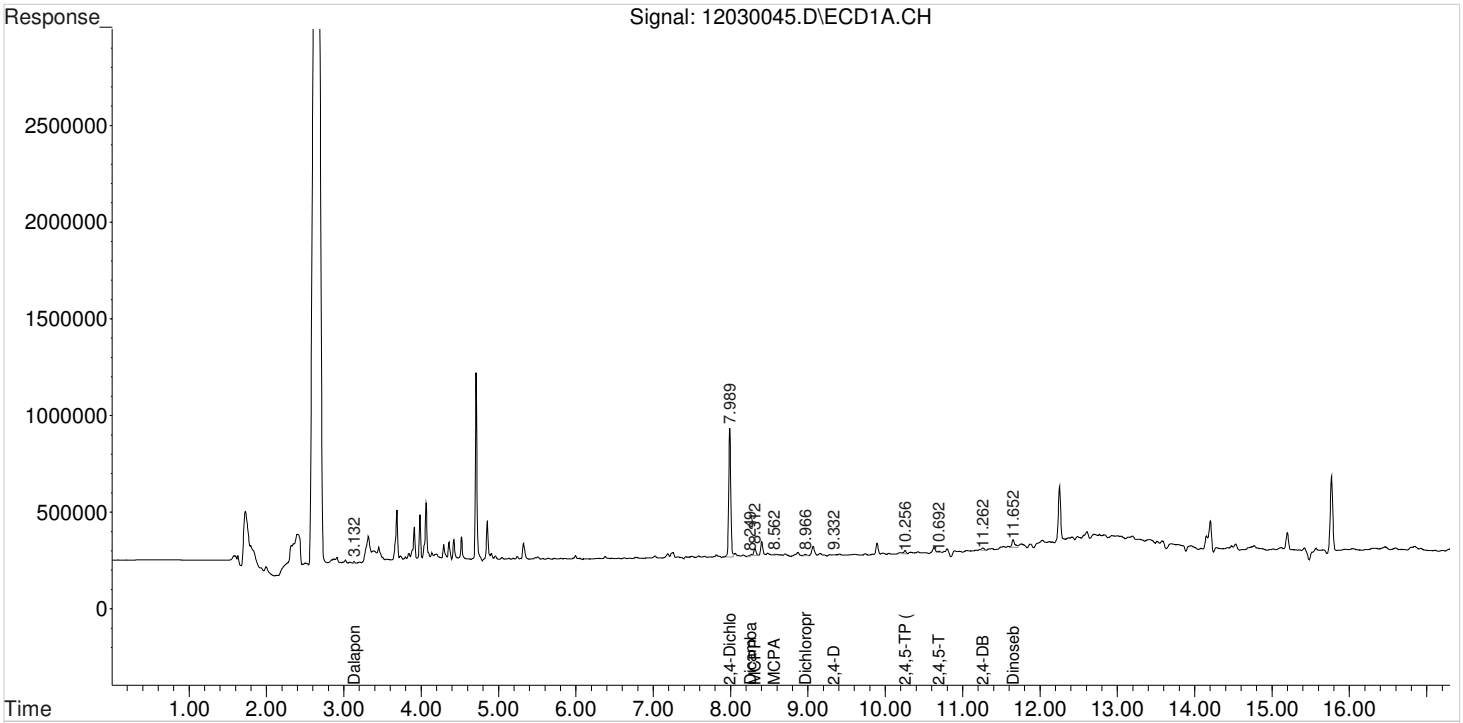
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

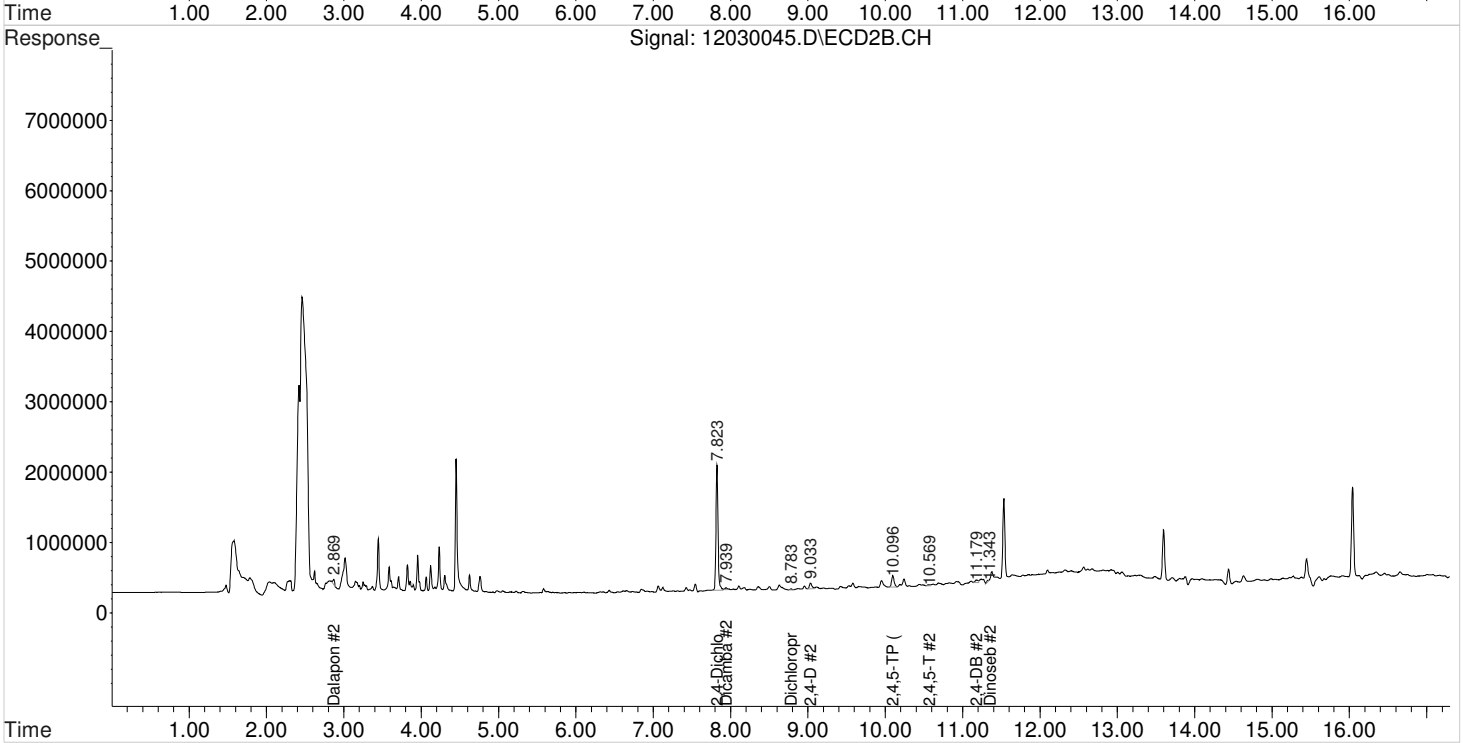
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030045.D Vial: 36
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 5:37 am Operator: UA
Sample : K2001727-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 13:47:47 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



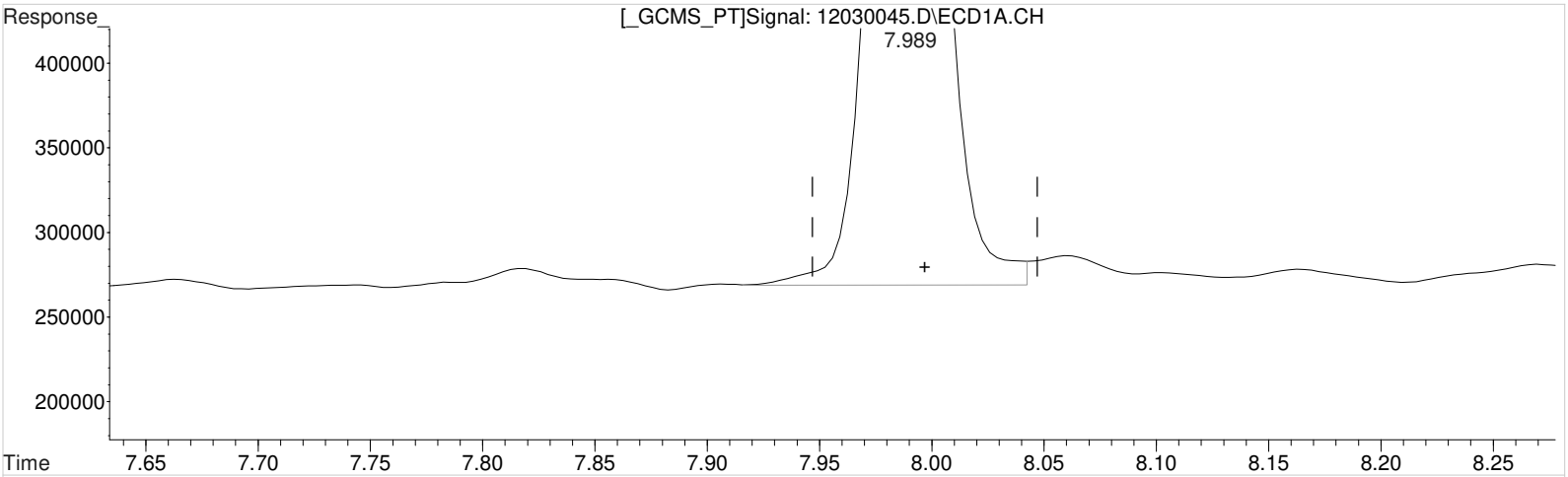


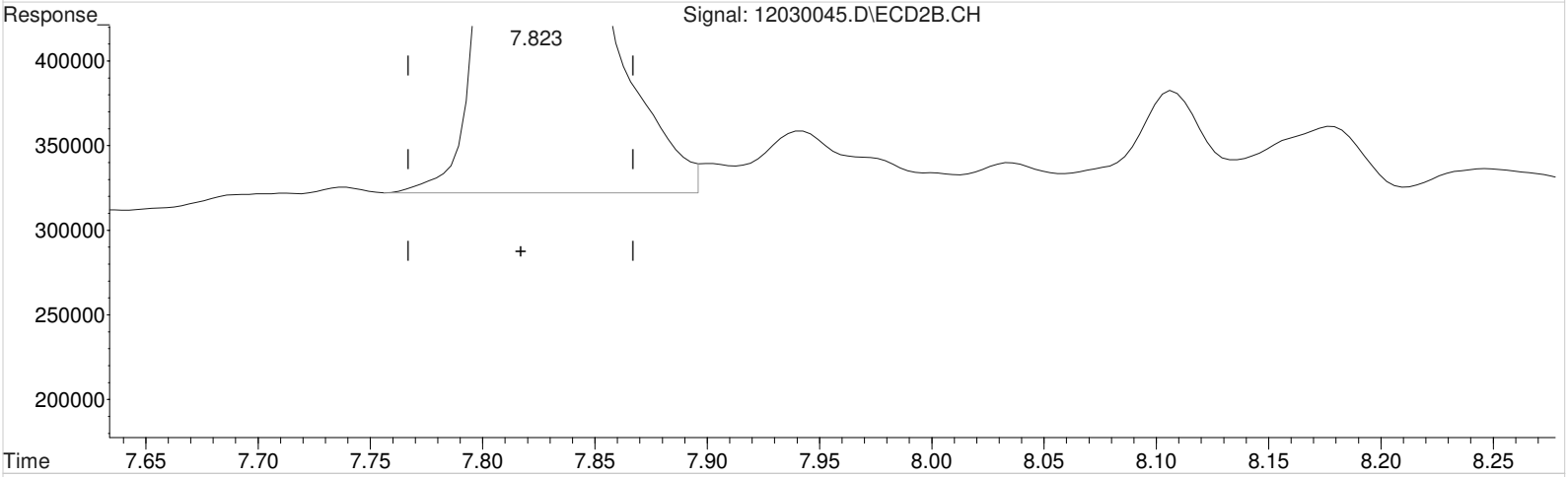
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030045.D Vial: 36
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 5:37 am Operator: UA
Sample : K2001727-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:15:58 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

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

7.989min 68.002 ppb

response 1237402

Manual Integration:

Before

12/04/20

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

7.823min 78.580 ppb

response 3323761

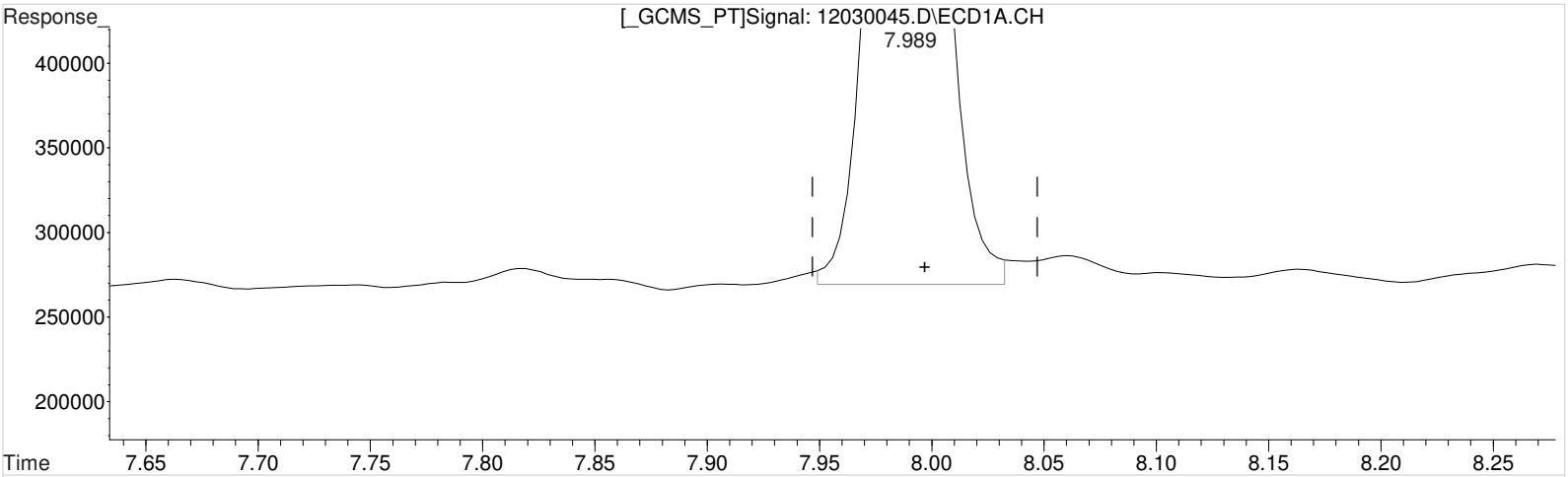
(+) = Expected Retention Time

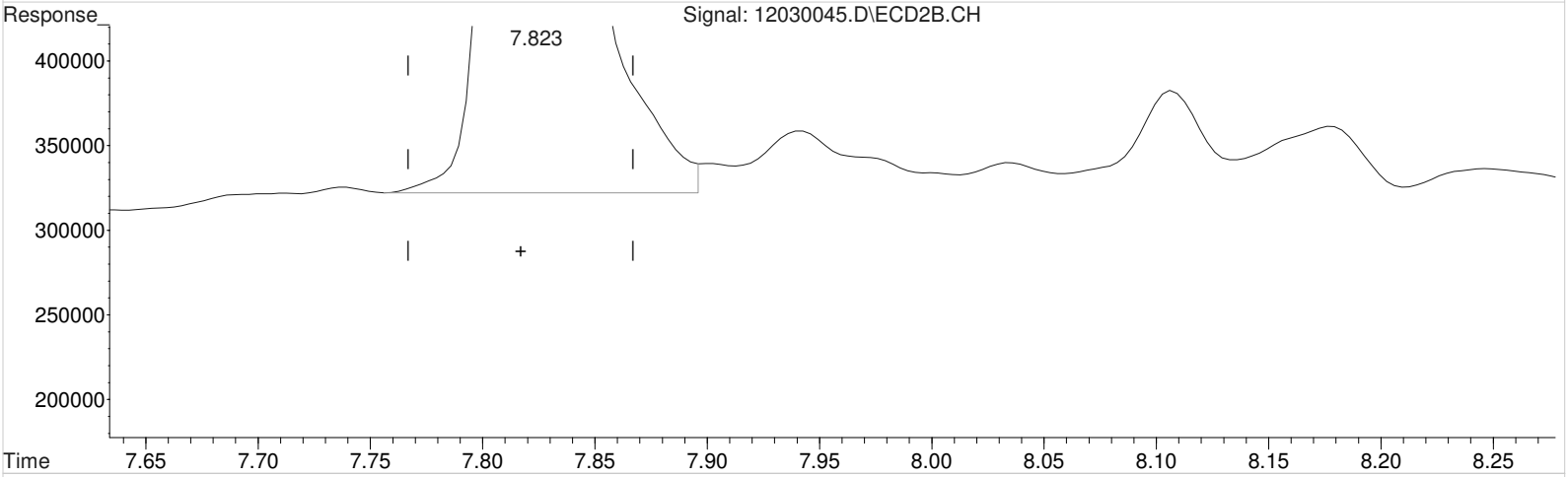
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030045.D Vial: 36
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 5:37 am Operator: UA
Sample : K2001727-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:15:58 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

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

7.989min 66.962 ppb m

response 1218488

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.823min 78.580 ppb

response 3323761

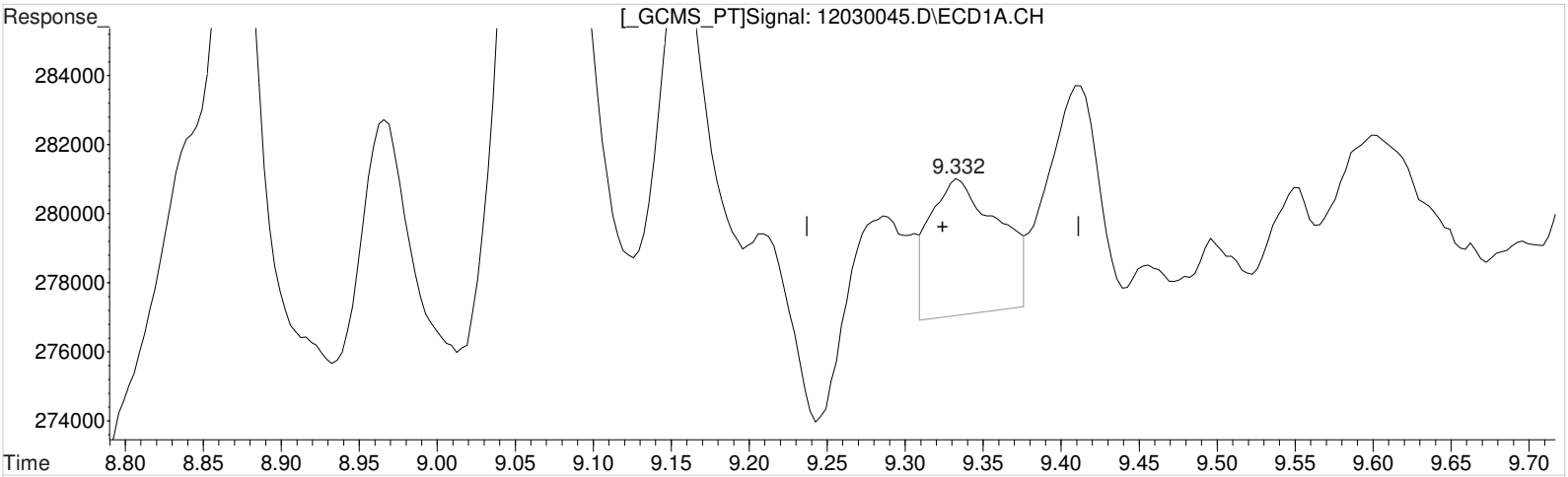
(+) = Expected Retention Time

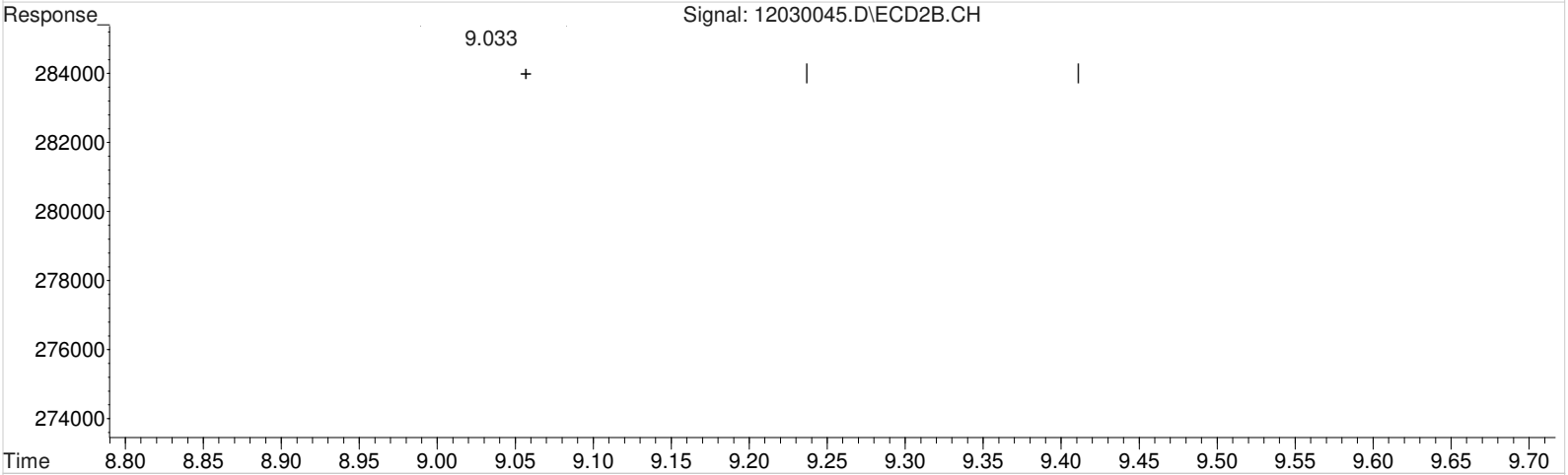
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030045.D Vial: 36
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 5:37 am Operator: UA
Sample : K2001727-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:15:58 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)

9.332min 0.566 ppb

response 12024

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

9.033min 3.963 ppb

response 202889

Manual Integration:

Before

12/04/20

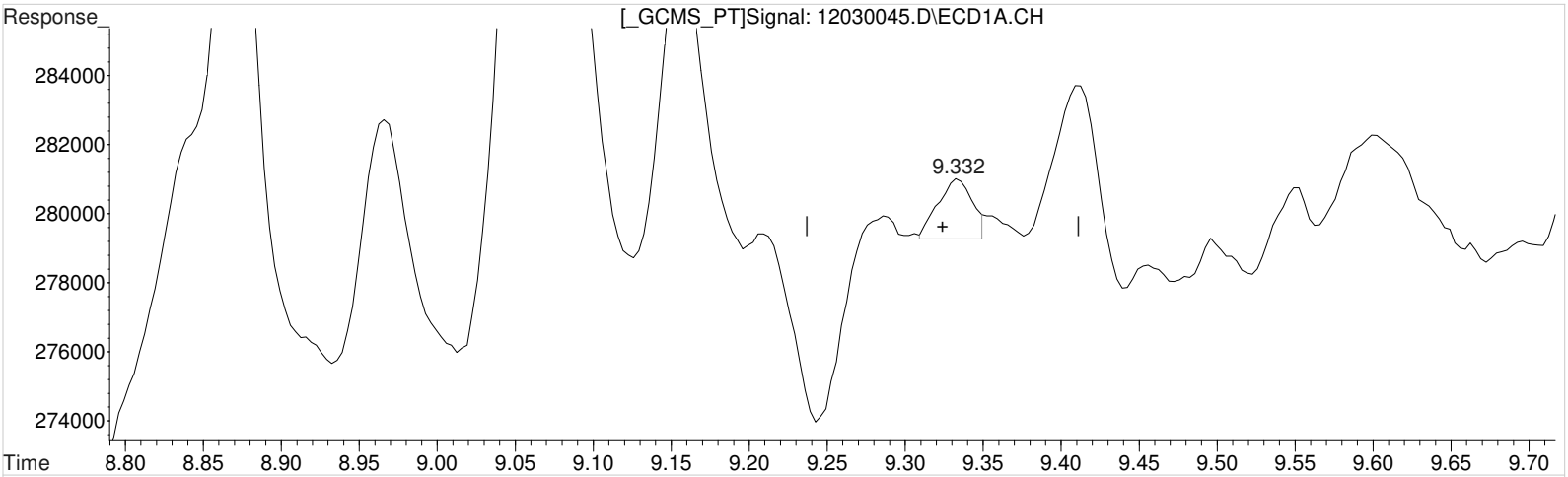
(+) = Expected Retention Time

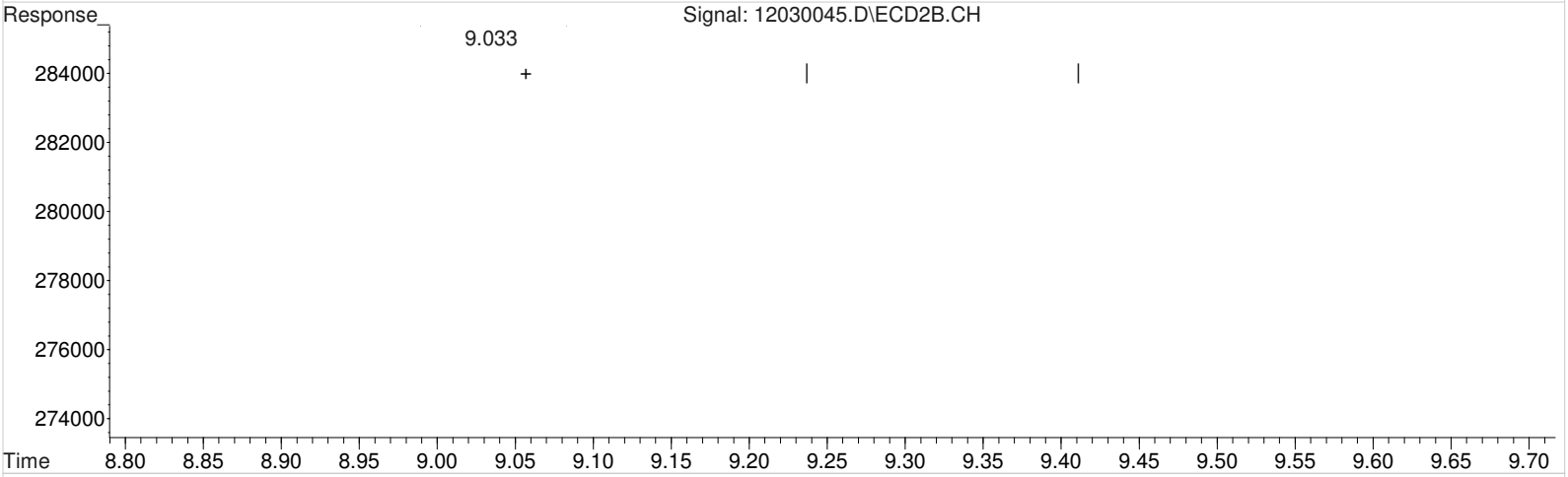
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030045.D Vial: 36
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 5:37 am Operator: UA
Sample : K2001727-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:15:58 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)

9.332min 0.128 ppb m

response 2720

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

9.033min 3.963 ppb

response 202889

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030046.D\
Lab ID: K2010727-002
RunType: N/A
Matrix: Sediment

Date Acquired: 12/4/20 06:00:00
Batch ID: 705934
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	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	28		20	CCV+ND
	2,4-D	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030046.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 06:00:00	**Vial:**	17
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010727-002	**Raw Units:**	ppb

Bottle ID:	K2010727-002.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	K2010727
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82 -0.01	1034227	3059558	56.836	72.334	57	72	57	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	10.13 -0.01	28228	25629	0.301	0.126[CCV]	0.79U	0.33U	3.8 U	Y
2,4-D	9.33 +0.01	9.03 -0.04	7601	154478	0.358	3.017[CCV]	0.94U	7.9U	13 U	Y

Prep Amount:	30.023 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	63.40

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

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

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

Printed: 12/8/20 17:31
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030046.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:00 am Operator: UA
Sample : K2001727-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:00:26 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...	7.987	7.824	1034227	3059558	56.836m	72.334m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.330	9.031	7601	154478	0.358m	3.017 #
8)	m	2,4,5-TP ...	10.250	10.127	28228	25629	0.301	0.126m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

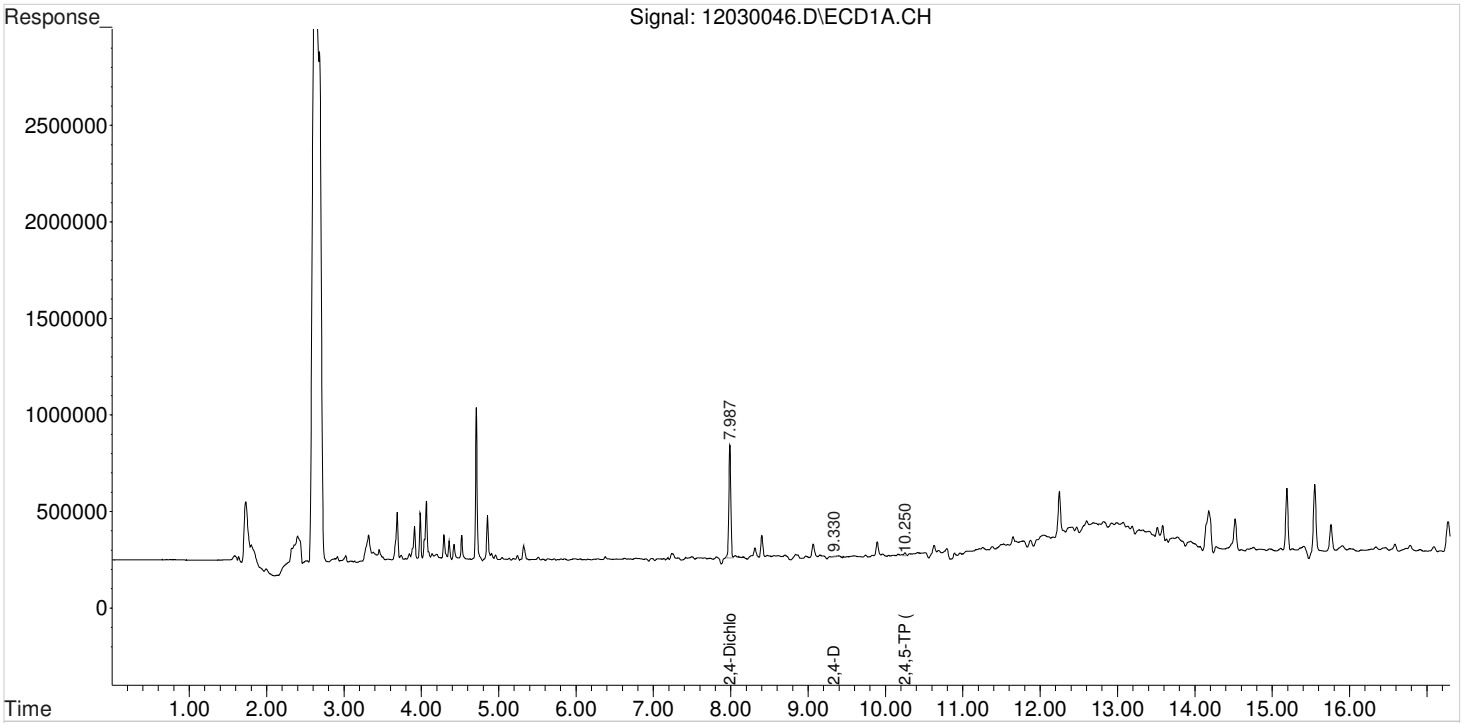
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

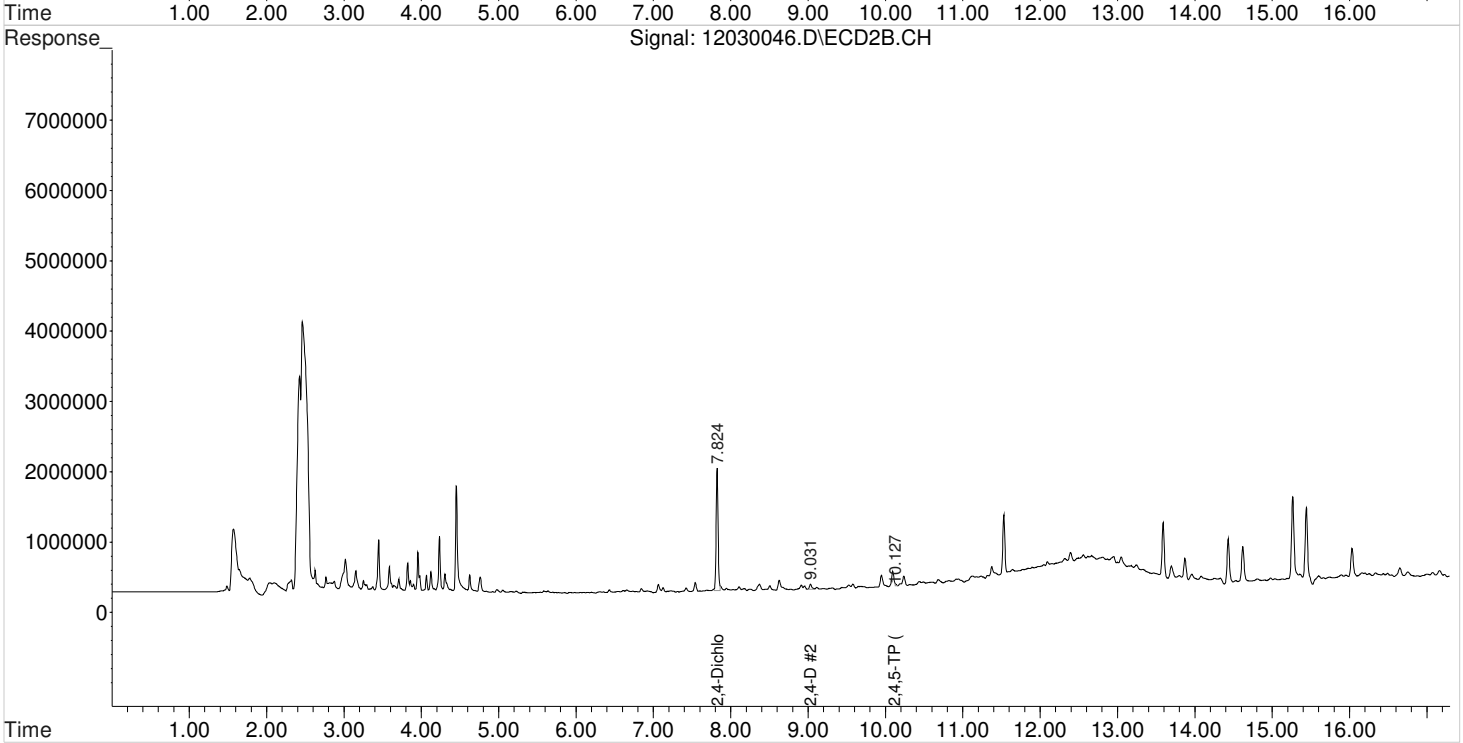
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030046.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:00 am Operator: UA
Sample : K2001727-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:00:26 2020
Quant Results File: 102120_8151.RES

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

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



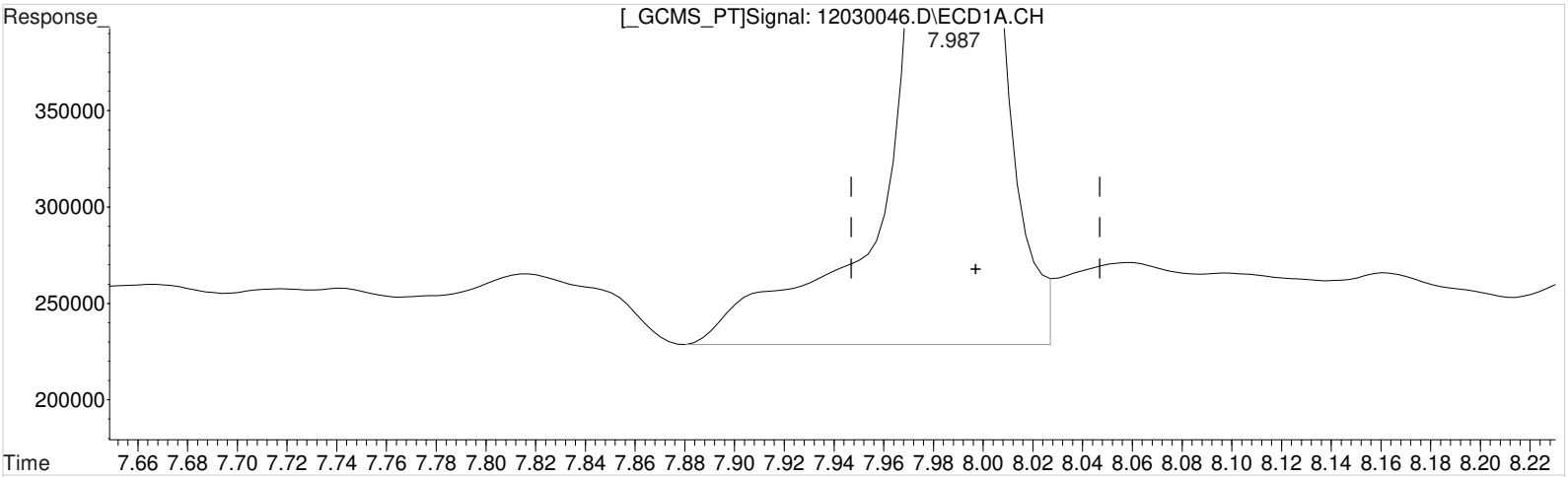


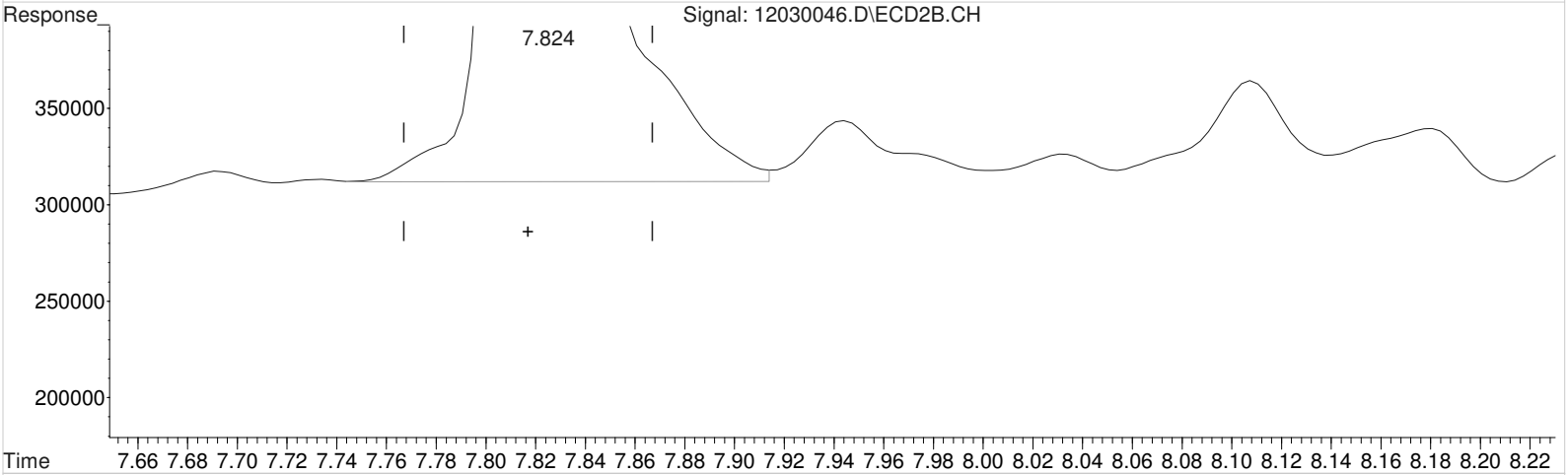
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030046.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:00 am Operator: UA
Sample : K2001727-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:01 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





QEdit

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

7.987min 70.640 ppb

response 1285406

Manual Integration:

Before

12/04/20

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

7.824min 74.966 ppb

response 3170882

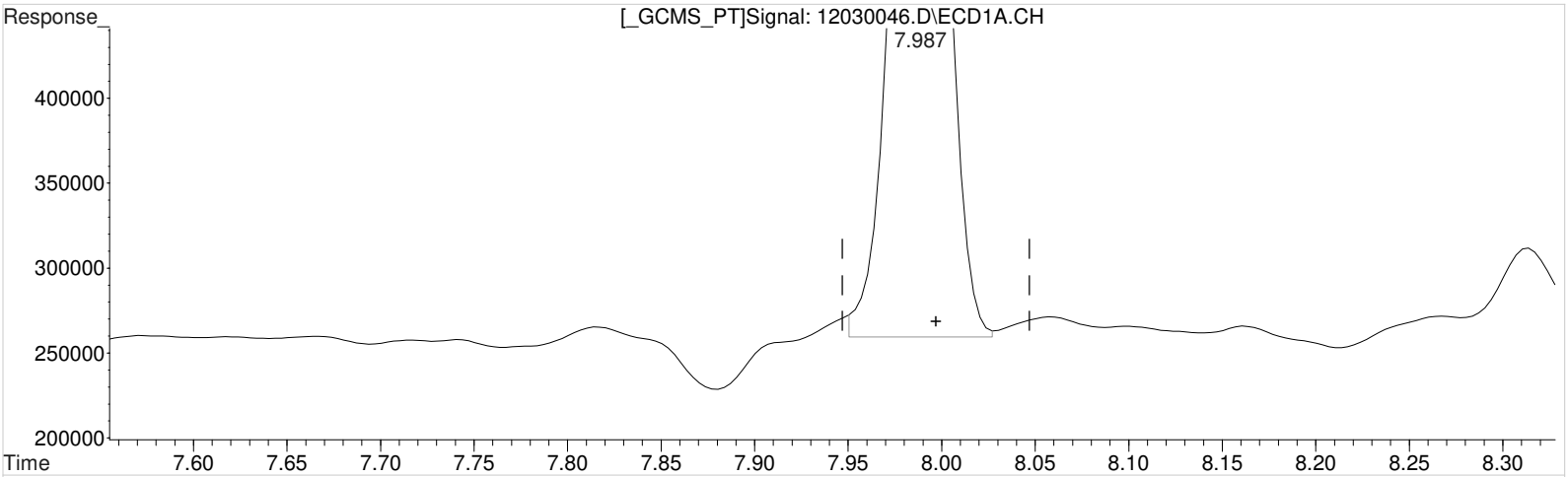
(+) = Expected Retention Time

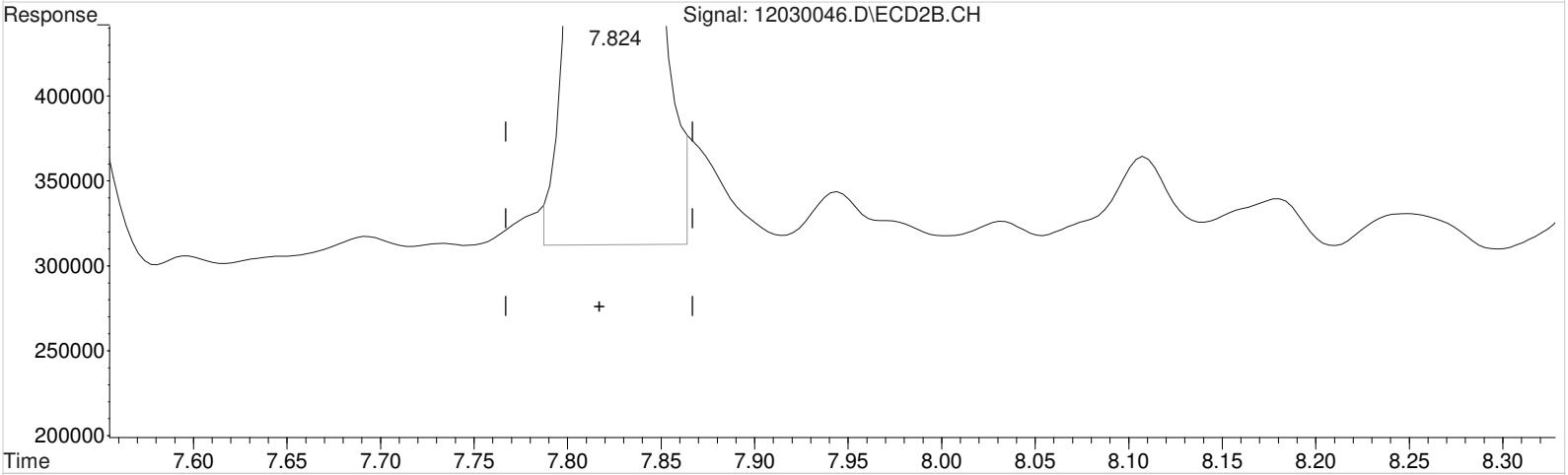
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030046.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:00 am Operator: UA
Sample : K2001727-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:00:26 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





QEdit

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

7.987min 56.836 ppb m

response 1034227

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.824min 72.334 ppb m

response 3059558

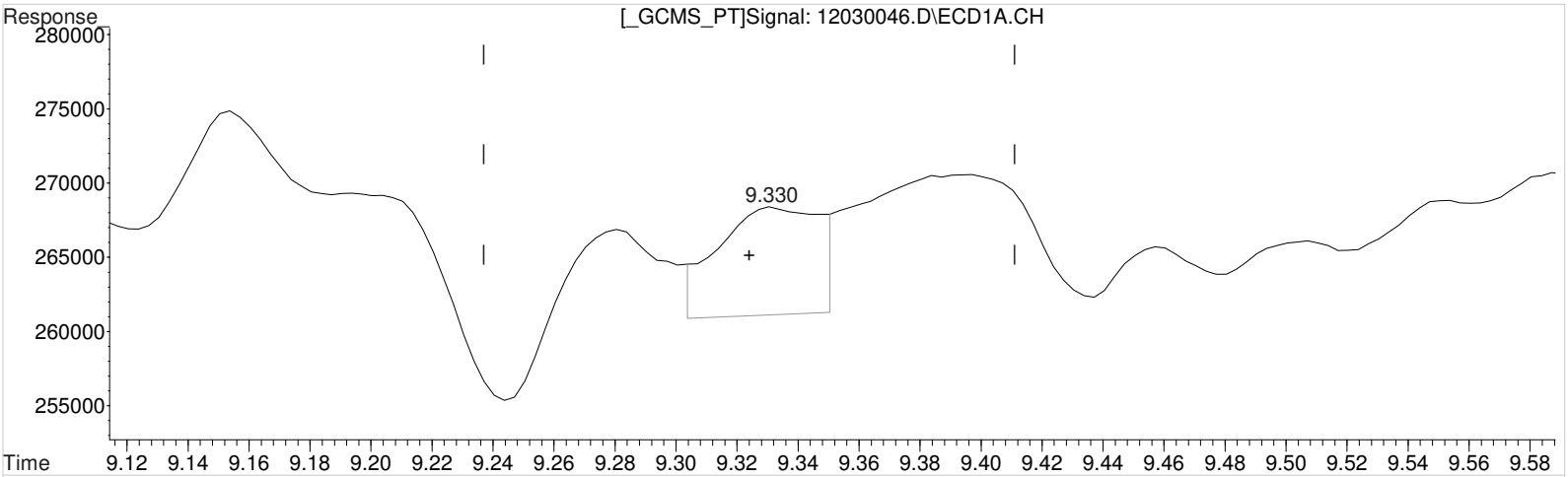
(+) = Expected Retention Time

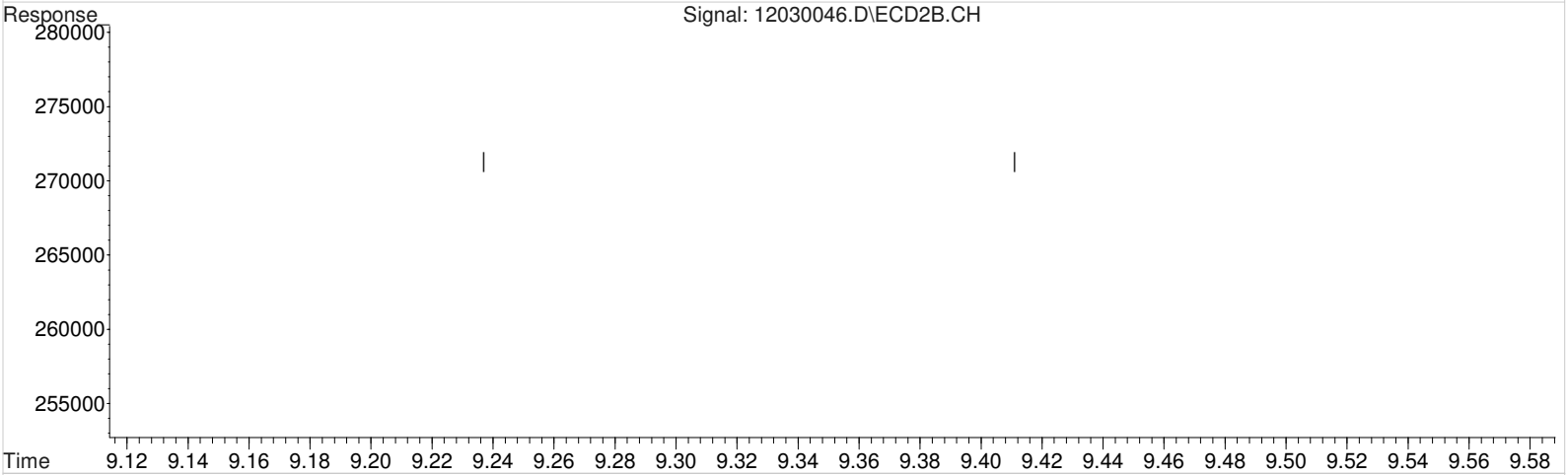
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030046.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:00 am Operator: UA
Sample : K2001727-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:01 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





QEdit

(7) 2,4-D (m)

9.330min 0.807 ppb

response 17145

Manual Integration:

Before

12/04/20

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

9.031min 3.017 ppb

response 154478

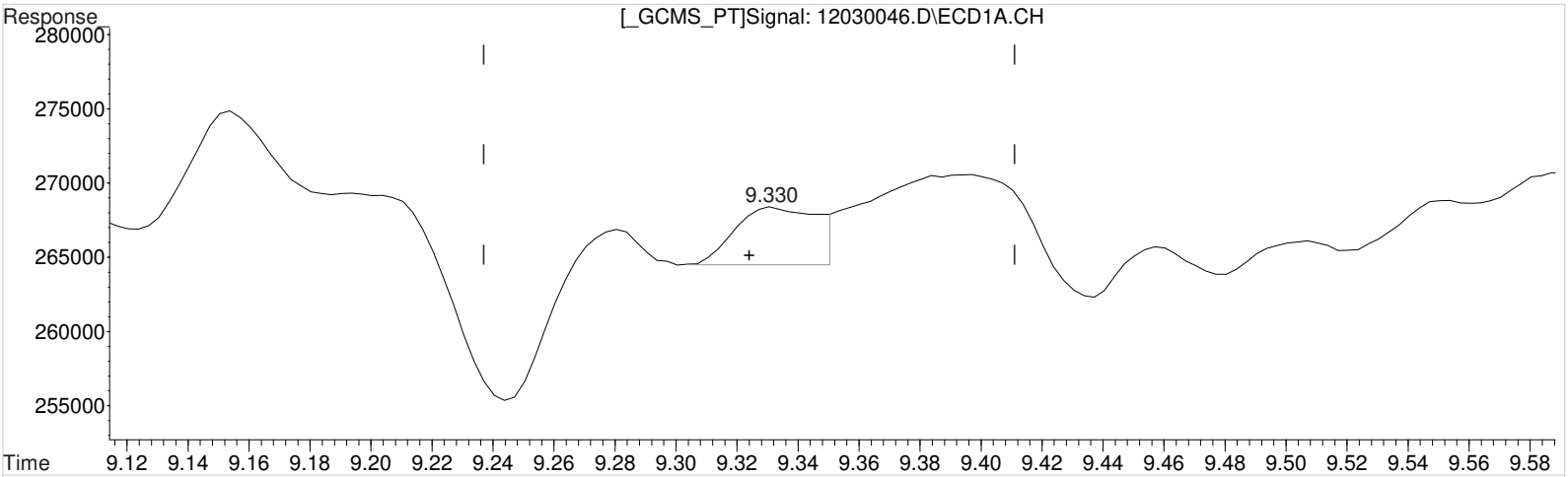
(+) = Expected Retention Time

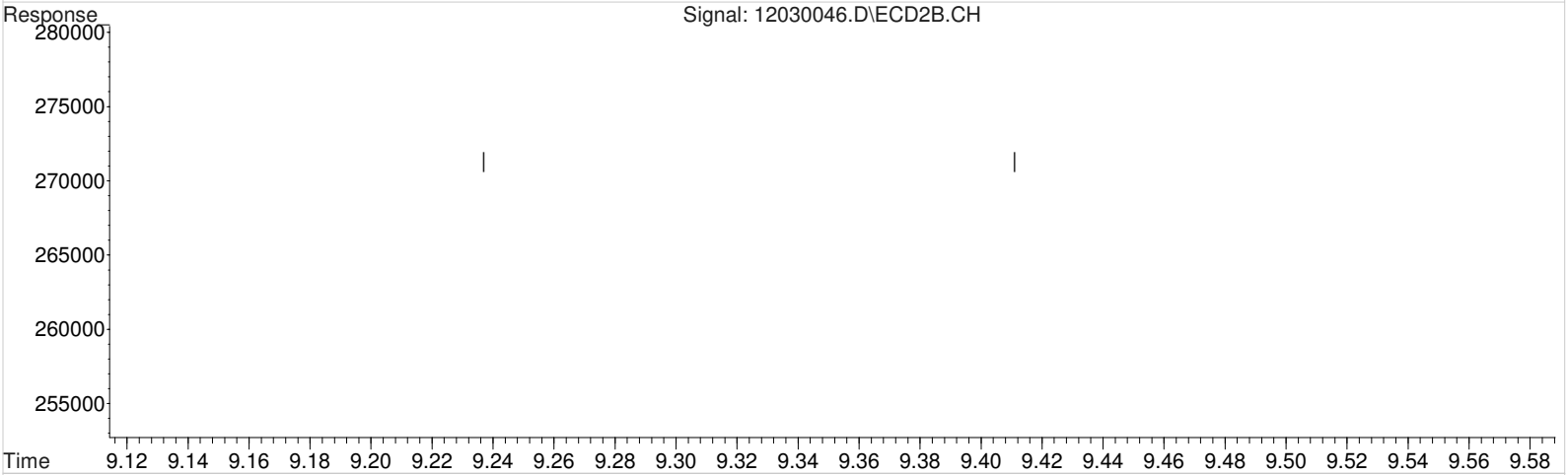
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030046.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:00 am Operator: UA
Sample : K2001727-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:01 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





QEdit

(7) 2,4-D (m)

9.330min 0.358 ppb m

response 7601

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

9.031min 3.017 ppb

response 154478

(+) = Expected Retention Time

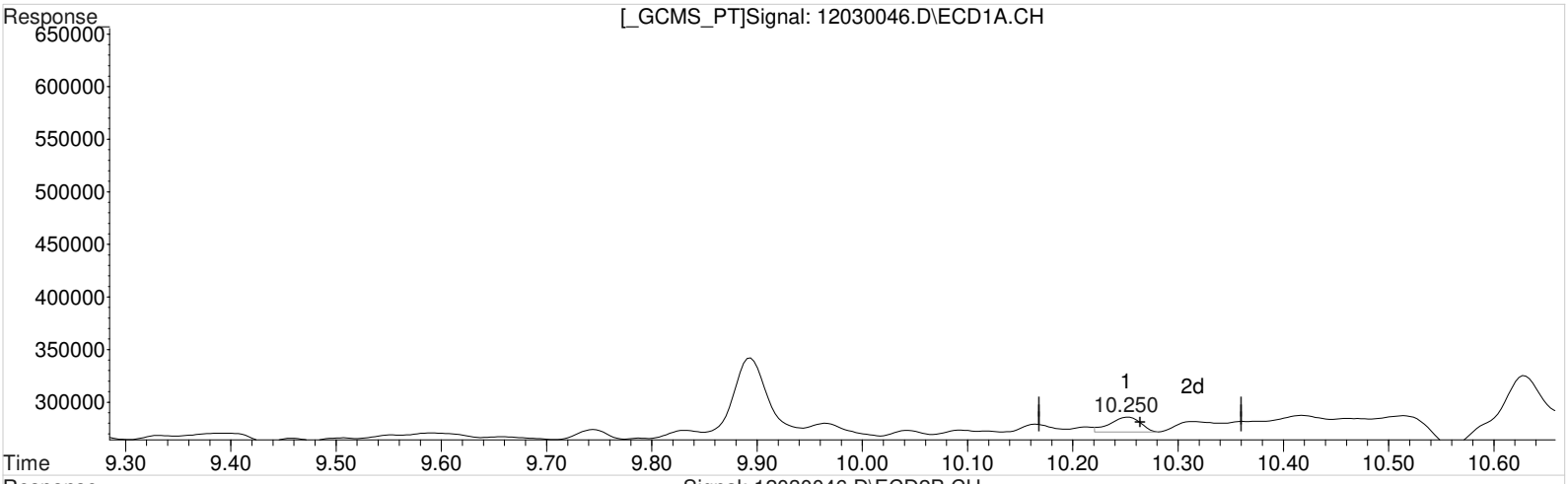
Quantitation Report (Qedit)

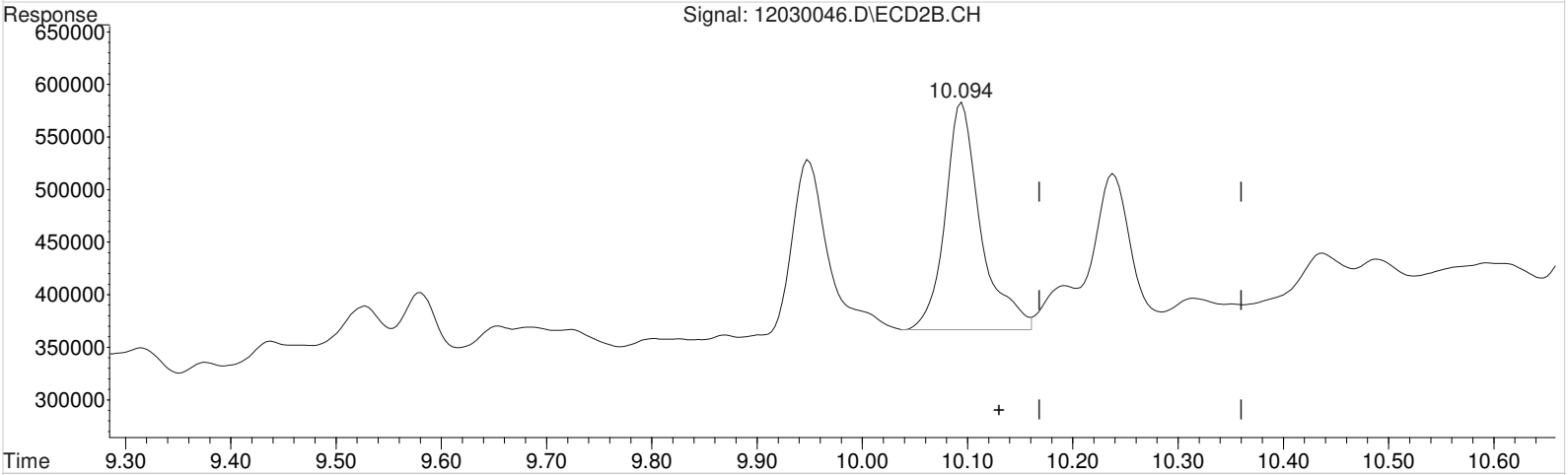
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030046.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:00 am Operator: UA
Sample : K2001727-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:01 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





QEdit

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

10.250min 0.301 ppb

response 28228

Manual Integration:

Before

12/04/20

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

10.094min 2.510 ppb

response 509533

(+) = Expected Retention Time

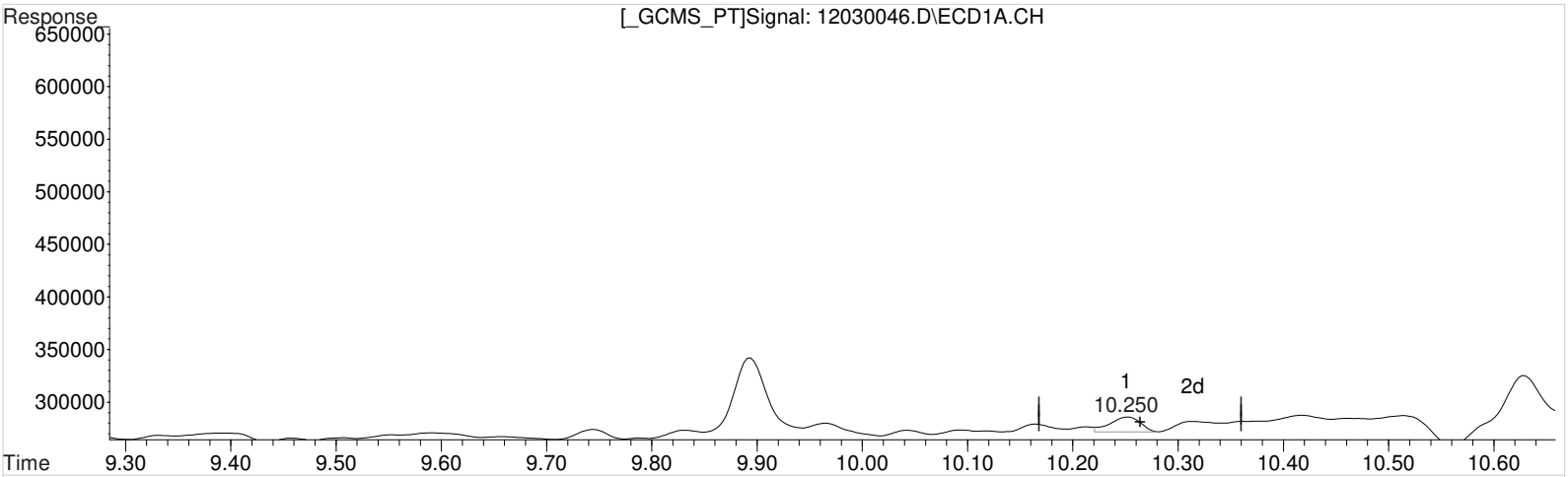
Quantitation Report (Qedit)

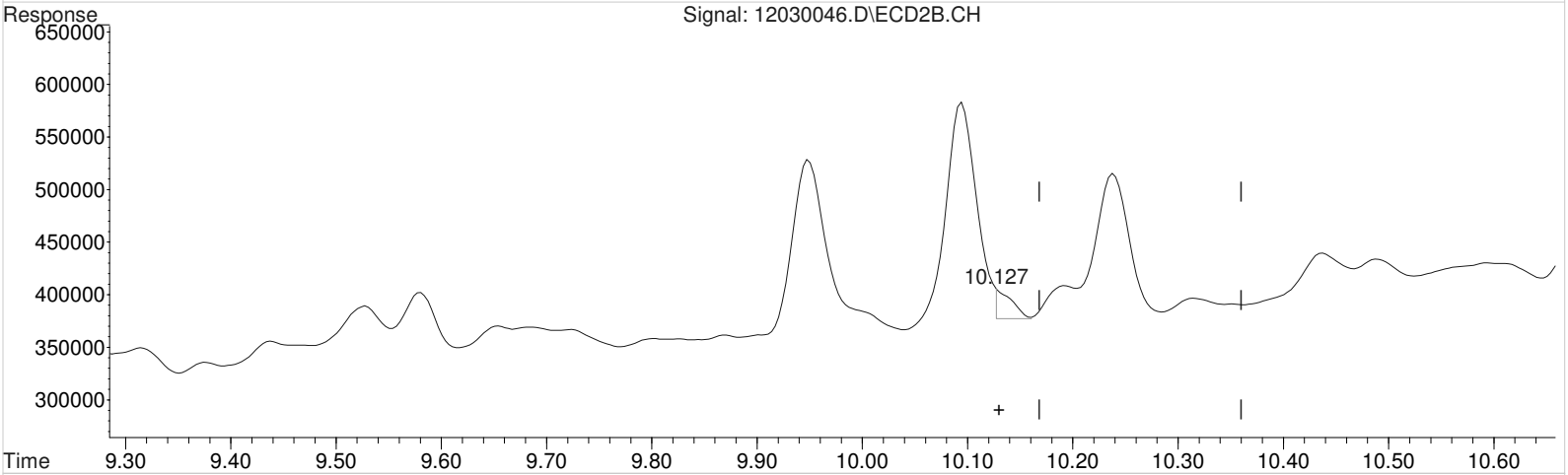
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030046.D Vial: 37
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:00 am Operator: UA
Sample : K2001727-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:01 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





QEdit

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

10.250min 0.301 ppb

response 28228

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

10.127min 0.126 ppb m

response 25629

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030047.D\
Lab ID: K2010727-003
RunType: N/A
Matrix: Sediment

Date Acquired: 12/4/20 06:23:00
Batch ID: 705934
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	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	28		20	CCV+ND
	2,4-D	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030047.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 06:23:00	**Vial:**	18
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010727-003	**Raw Units:**	ppb

Bottle ID:	K2010727-003.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	K2010727
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82 -0.01	1218342	3354993	66.954	79.318	67	79	67	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25 -0.01	10.11 -0.03	24831	118197	0.265	0.582 CCV	0.77U	1.7U	4.3 U	Y
2,4-D	9.33 +0.01	9.03 -0.04	13181	115638	0.621	2.259 CCV	1.8U	6.6U	14 U	Y

Prep Amount:	30.087 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	56.90

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

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

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

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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030047.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:23 am Operator: UA
Sample : K2001727-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:07:36 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...	7.987	7.820	1218342	3354993	66.954m	79.318m
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.333	9.034	13181	115638	0.621m	2.259 #
8)	m	2,4,5-TP ...	10.253	10.107	24831	118197	0.265	0.582 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

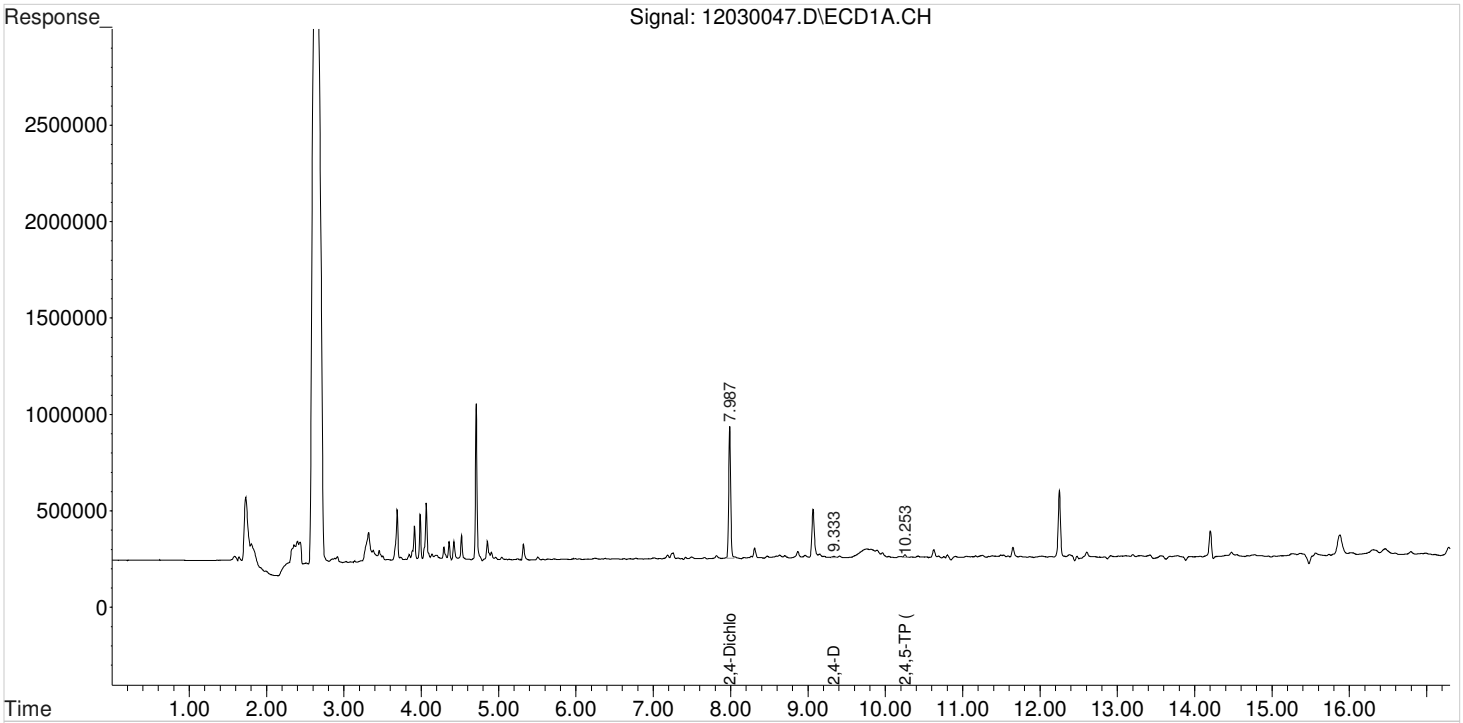
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

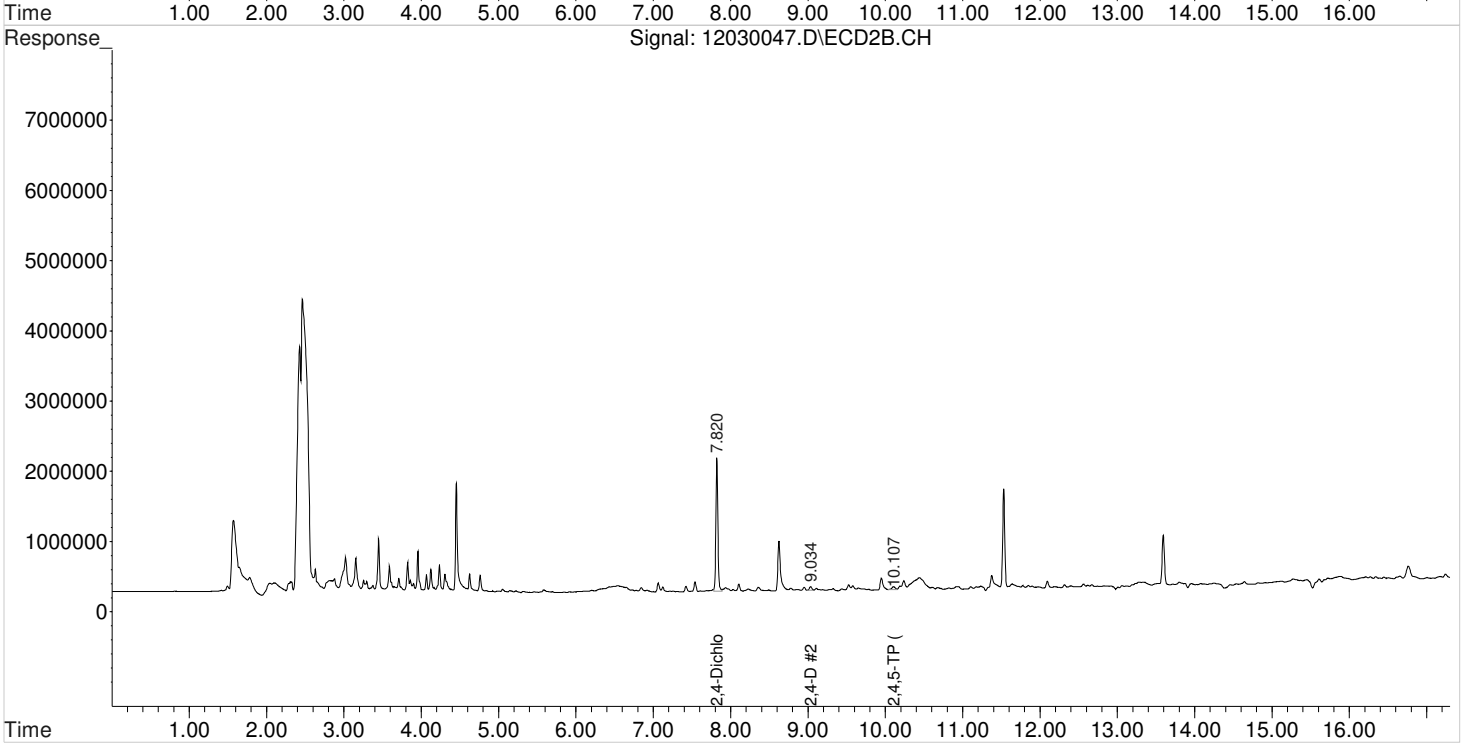
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030047.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:23 am Operator: UA
Sample : K2001727-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:07:36 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



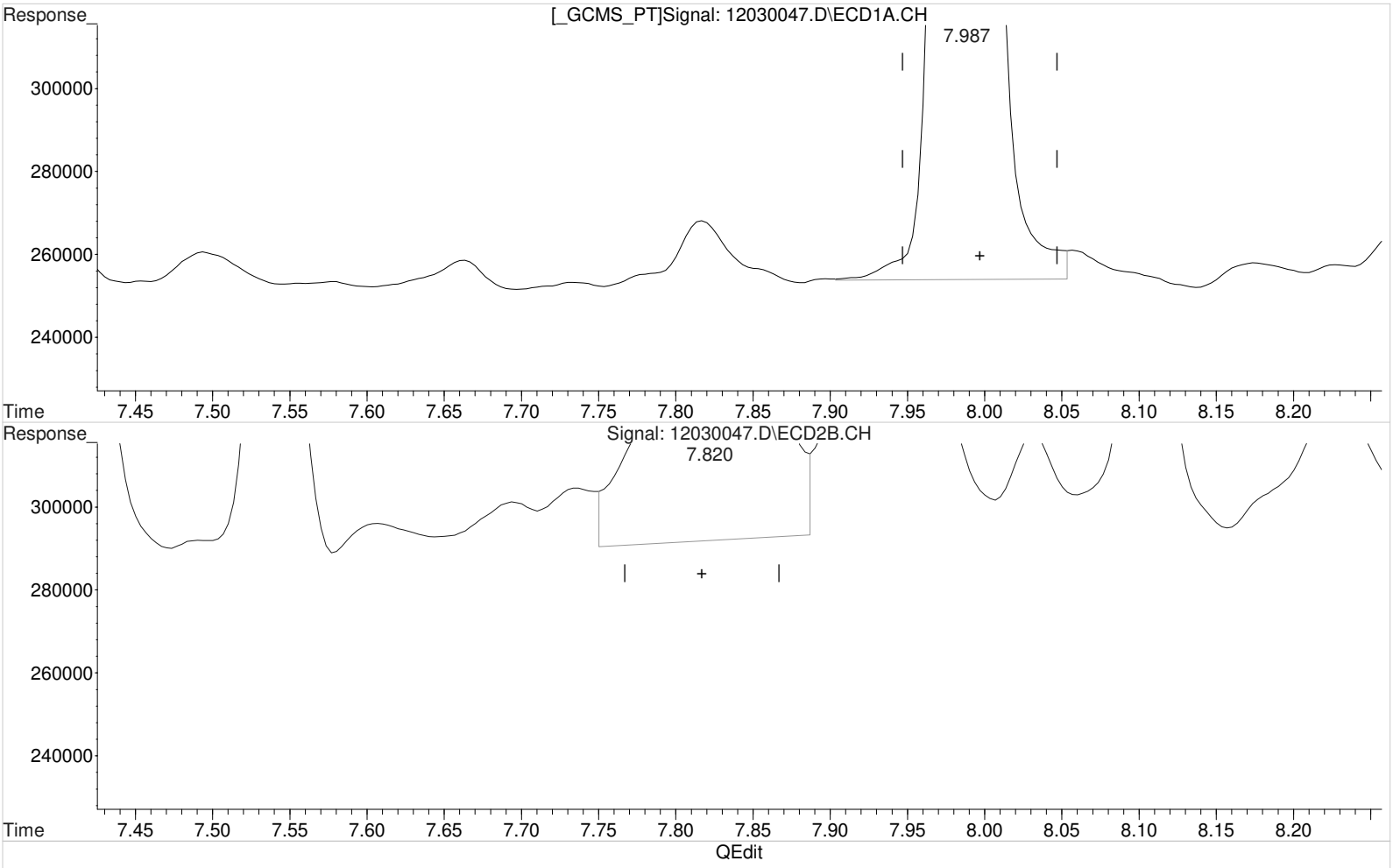


1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030047.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:23 am Operator: UA
Sample : K2001727-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:04 2020
Quant Results File: 102120_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)

7.987min 67.516 ppb

response 1228554

Manual Integration:

Before

12/04/20

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

7.820min 80.611 ppb

response 3409655

(+) = Expected Retention Time

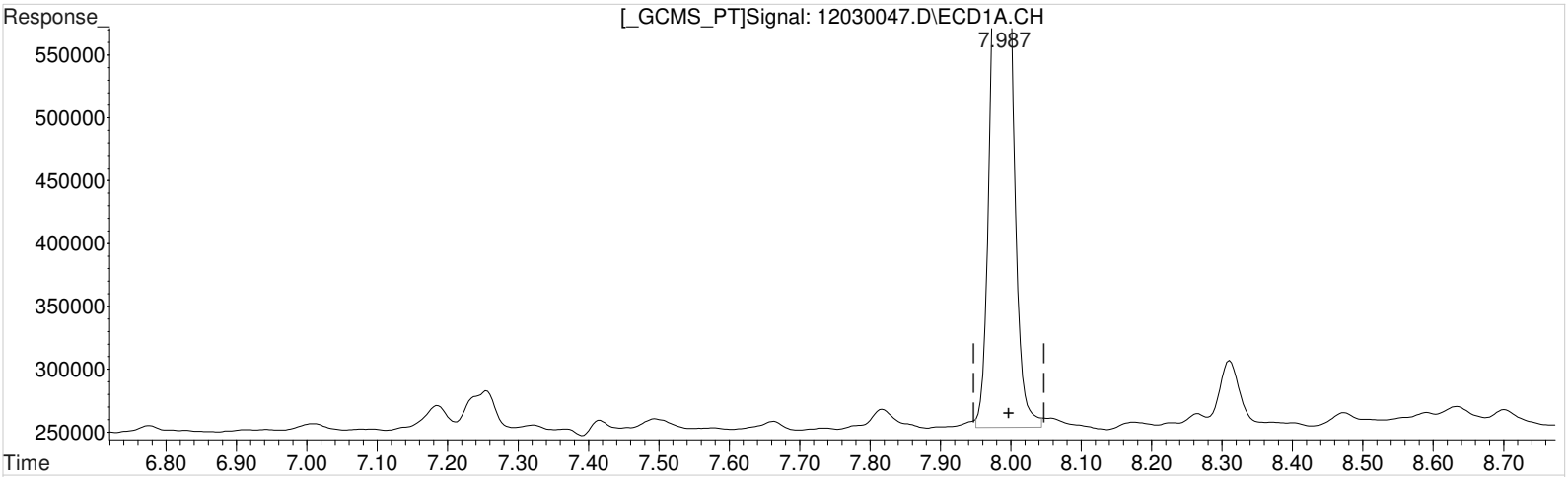
Quantitation Report (Qedit)

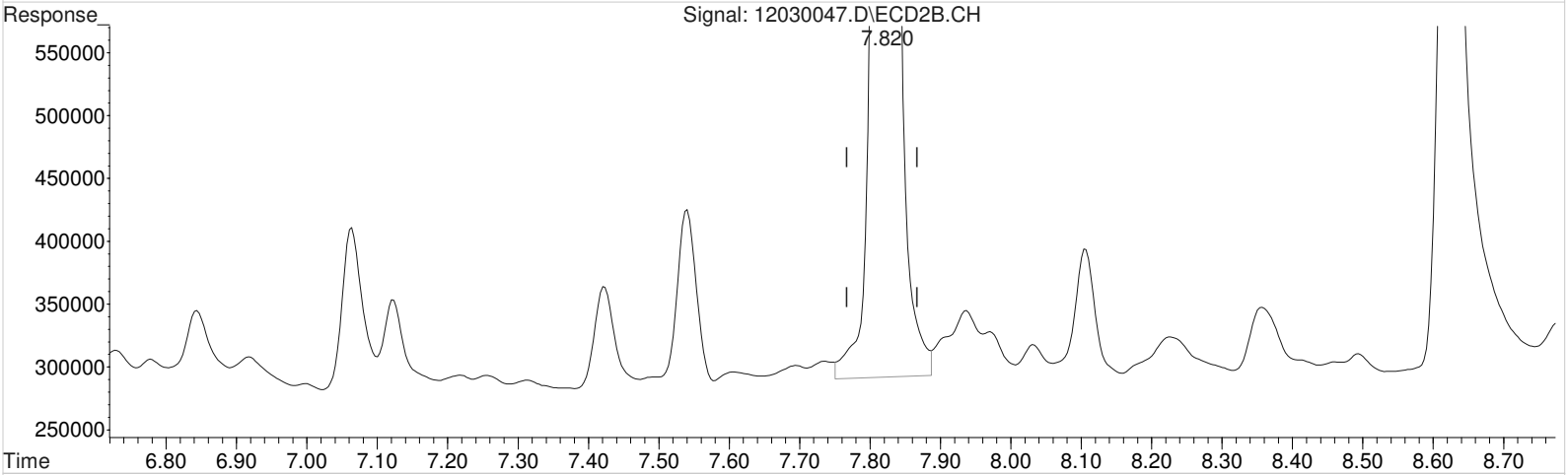
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030047.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:23 am Operator: UA
Sample : K2001727-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:04 2020
Quant Results File: 102120_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)

7.987min 66.954 ppb m

response 1218342

Manual Integration:

Before

12/04/20

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

7.820min 80.611 ppb

response 3409655

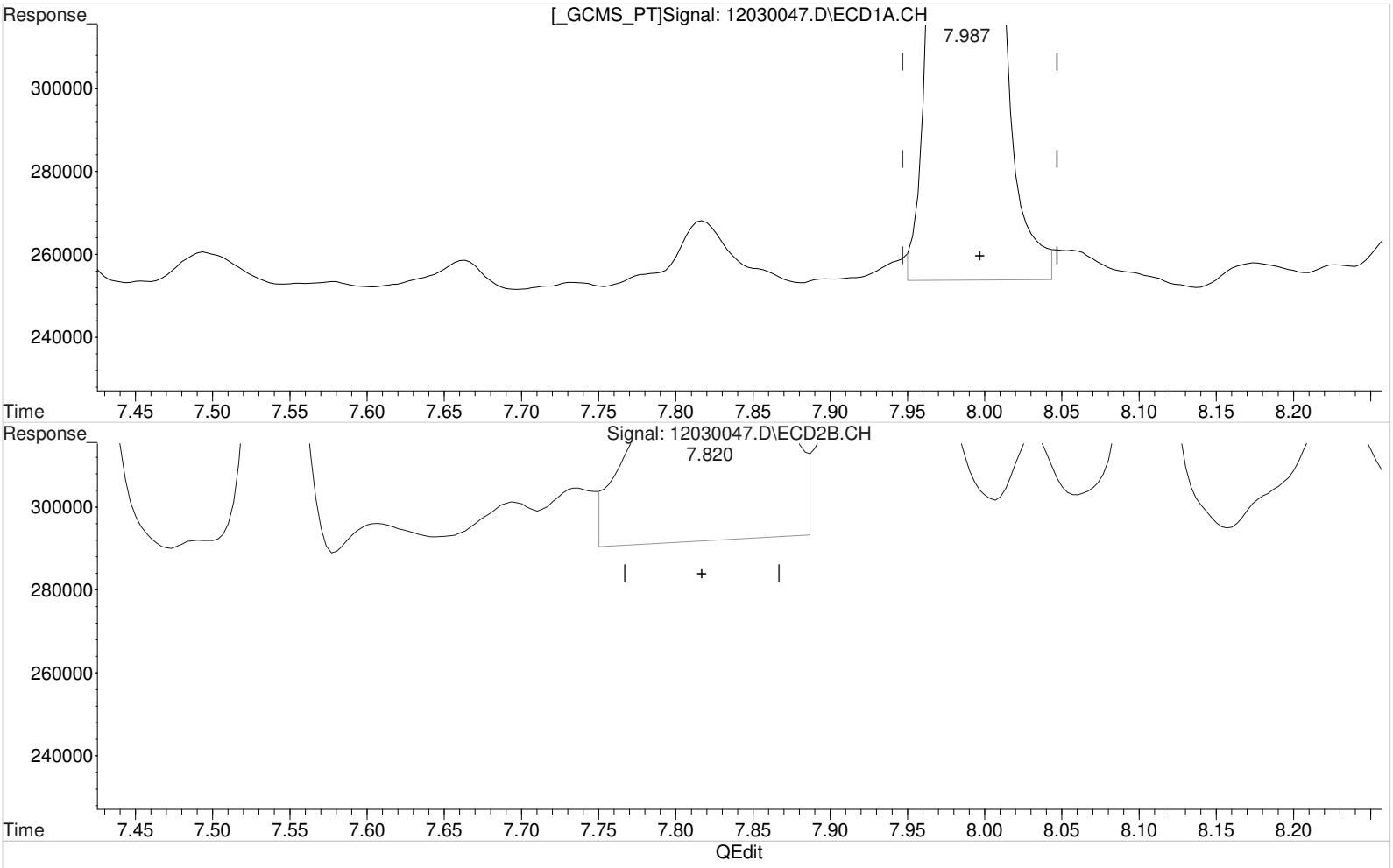
(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030047.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:23 am Operator: UA
Sample : K2001727-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:04 2020
Quant Results File: 102120_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)

7.987min 66.954 ppb m

response 1218342

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.820min 80.611 ppb

response 3409655

(+) = Expected Retention Time

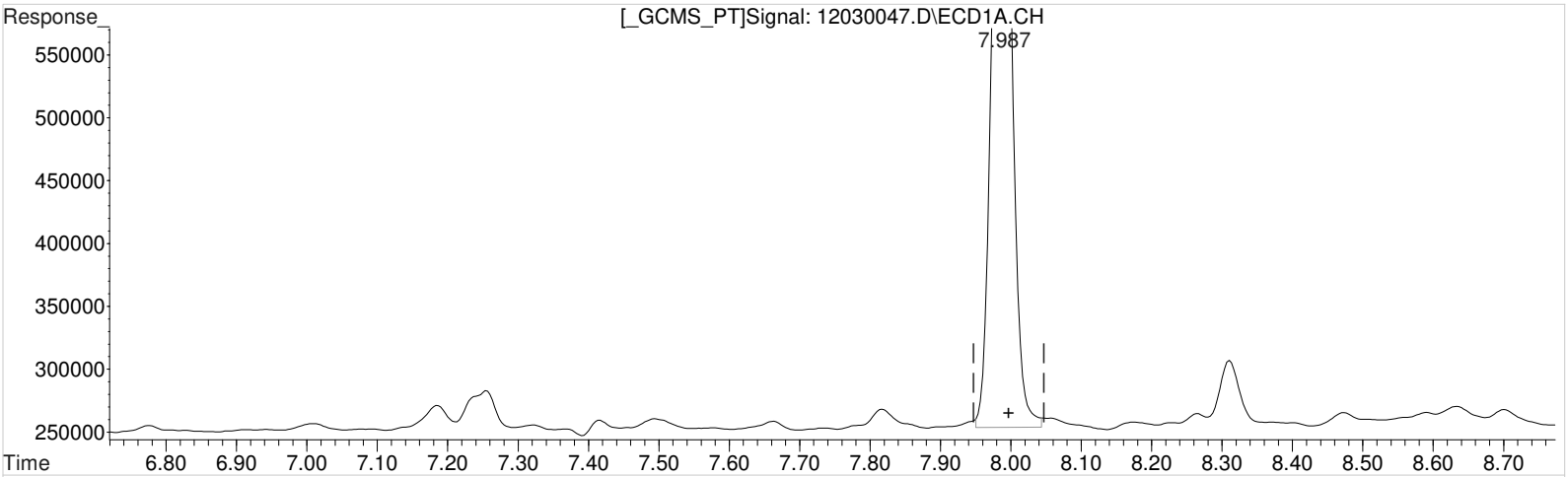
Quantitation Report (Qedit)

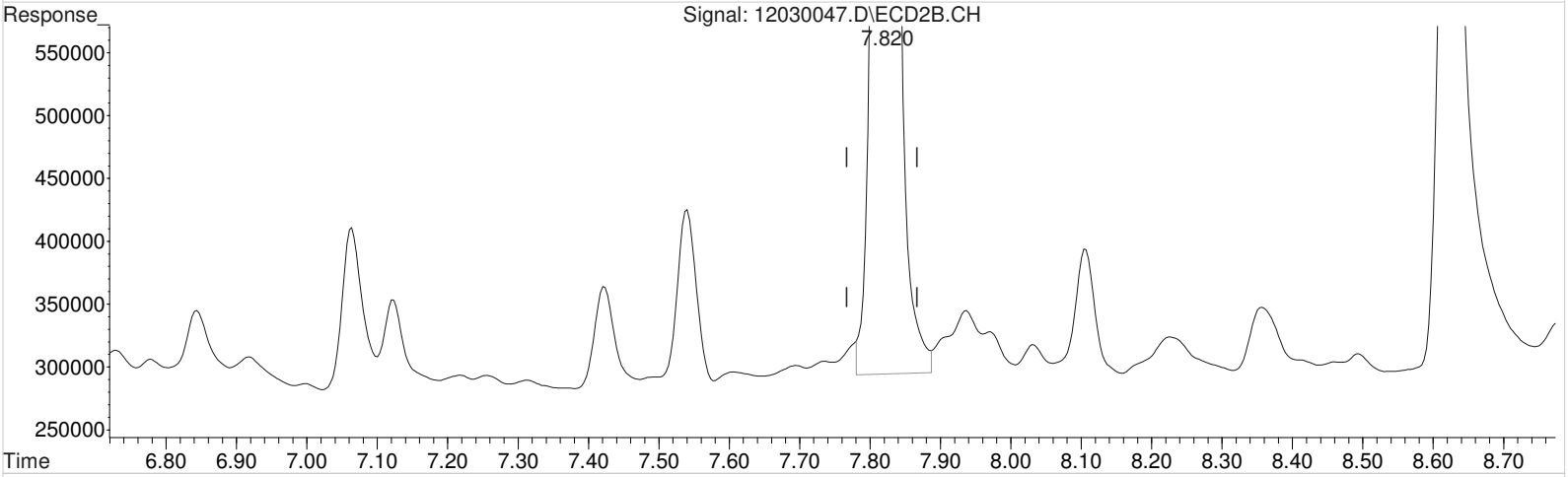
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030047.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:23 am Operator: UA
Sample : K2001727-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:04 2020
Quant Results File: 102120_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)

7.987min 66.954 ppb m

response 1218342

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.820min 79.318 ppb m

response 3354993

(+) = Expected Retention Time

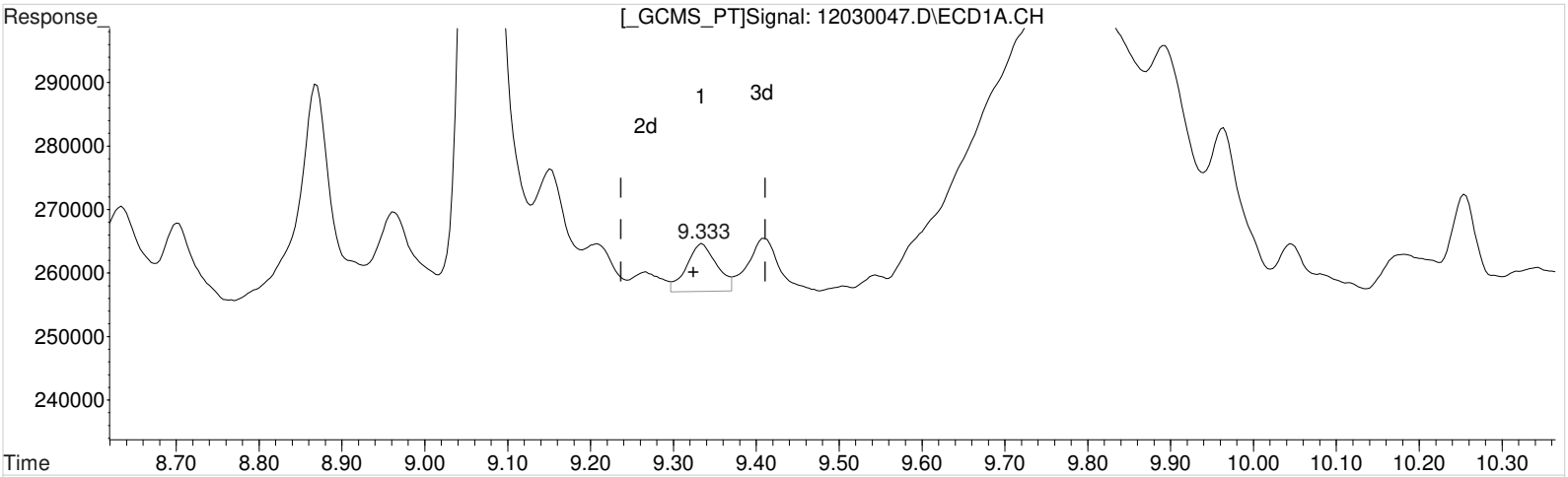
Quantitation Report (Qedit)

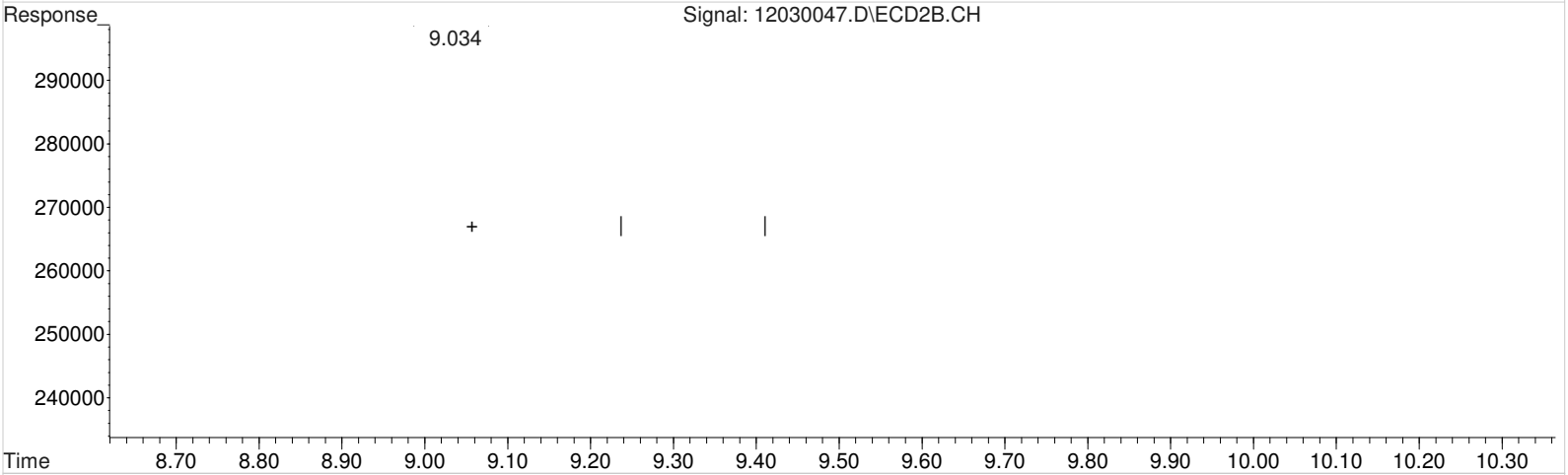
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030047.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:23 am Operator: UA
Sample : K2001727-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:04 2020
Quant Results File: 102120_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)

9.333min 0.899 ppb

response 19089

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

9.034min 2.259 ppb

response 115638

Manual Integration:

Before

12/04/20

(+) = Expected Retention Time

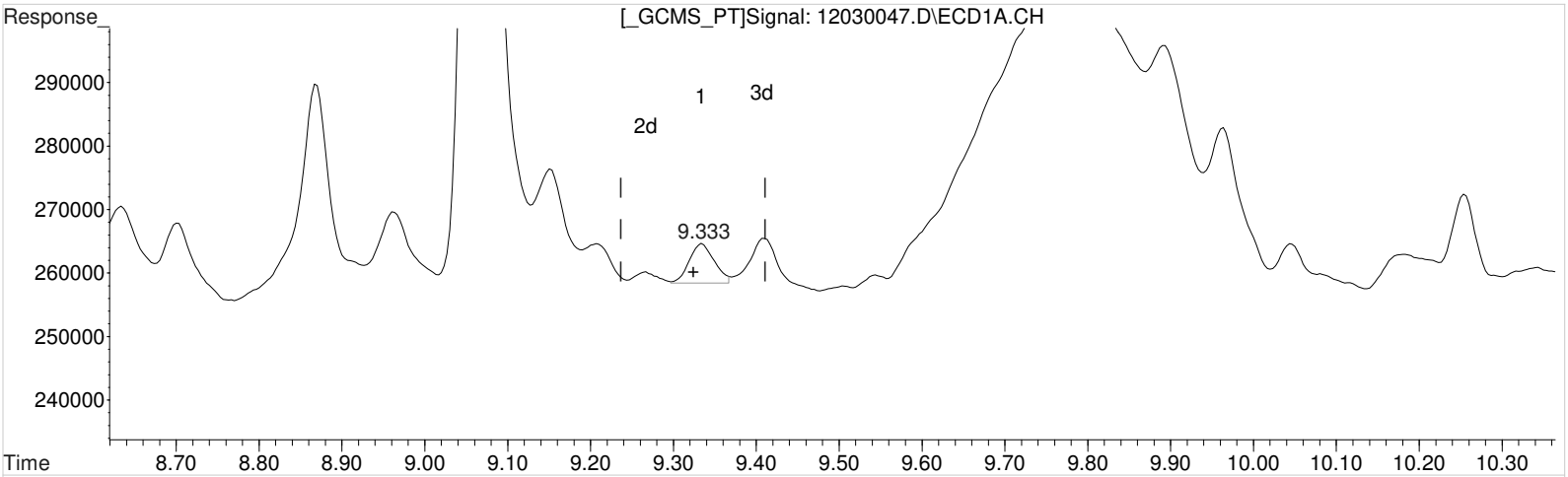
Quantitation Report (Qedit)

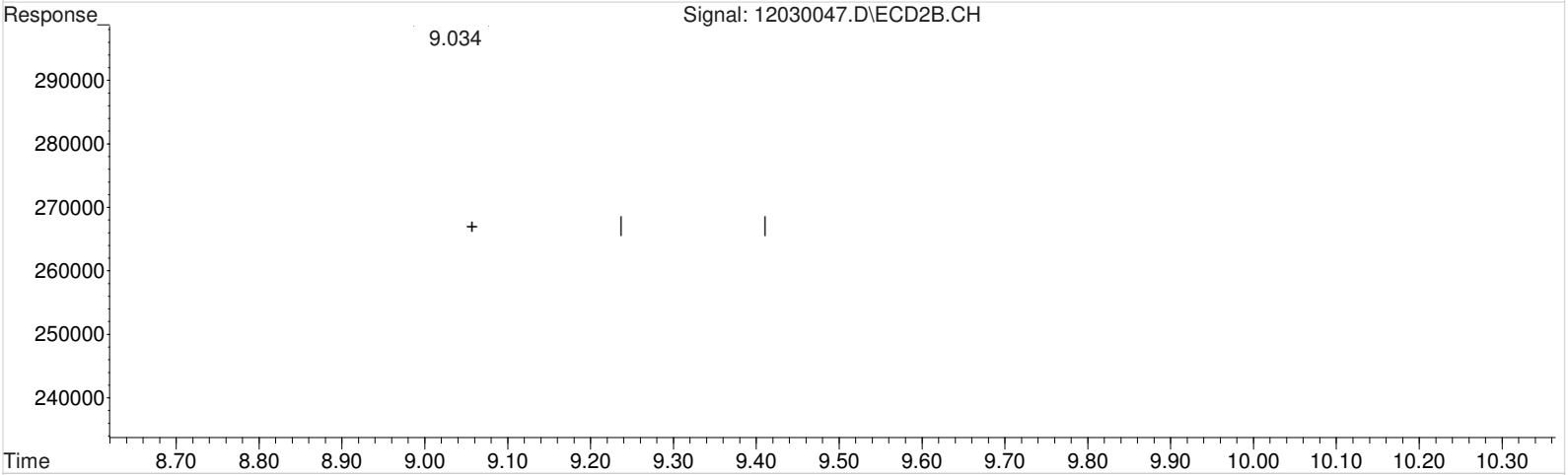
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030047.D Vial: 38
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:23 am Operator: UA
Sample : K2001727-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:04 2020
Quant Results File: 102120_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)

9.333min 0.621 ppb m

response 13181

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

9.034min 2.259 ppb

response 115638

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030048.D\
Lab ID: K2010727-004
RunType: N/A
Matrix: Sediment

Date Acquired: 12/4/20 06:45:00
Batch ID: 705934
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	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	28		20	CCV+ND
	2,4-D	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030048.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 06:45:00	**Vial:**	19
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010727-004	**Raw Units:**	ppb

Bottle ID:	K2010727-004.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	K2010727
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83	1036315	2623699	56.951	62.029	57	62	57	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 -0.03	24646	78549	0.263	0.387 CCV	0.70U	1.0U	3.9 U	Y
2,4-D	9.34 +0.02	9.04 -0.03	4641	113668	0.219	2.220 CCV	0.58U	5.9U	13 U	Y

Prep Amount:	30.048 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	62.70

<MRL

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

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

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

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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030048.D Vial: 39
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:45 am Operator: UA
Sample : K2001727-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:18:10 2020
Quant Results File: 102120_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	7.825	1036315	2623699	56.951m	62.029
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.338	9.035	4641	113668	0.219	2.220 #
8)	m	2,4,5-TP ...	10.255	10.112	24646	78549	0.263m	0.387 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

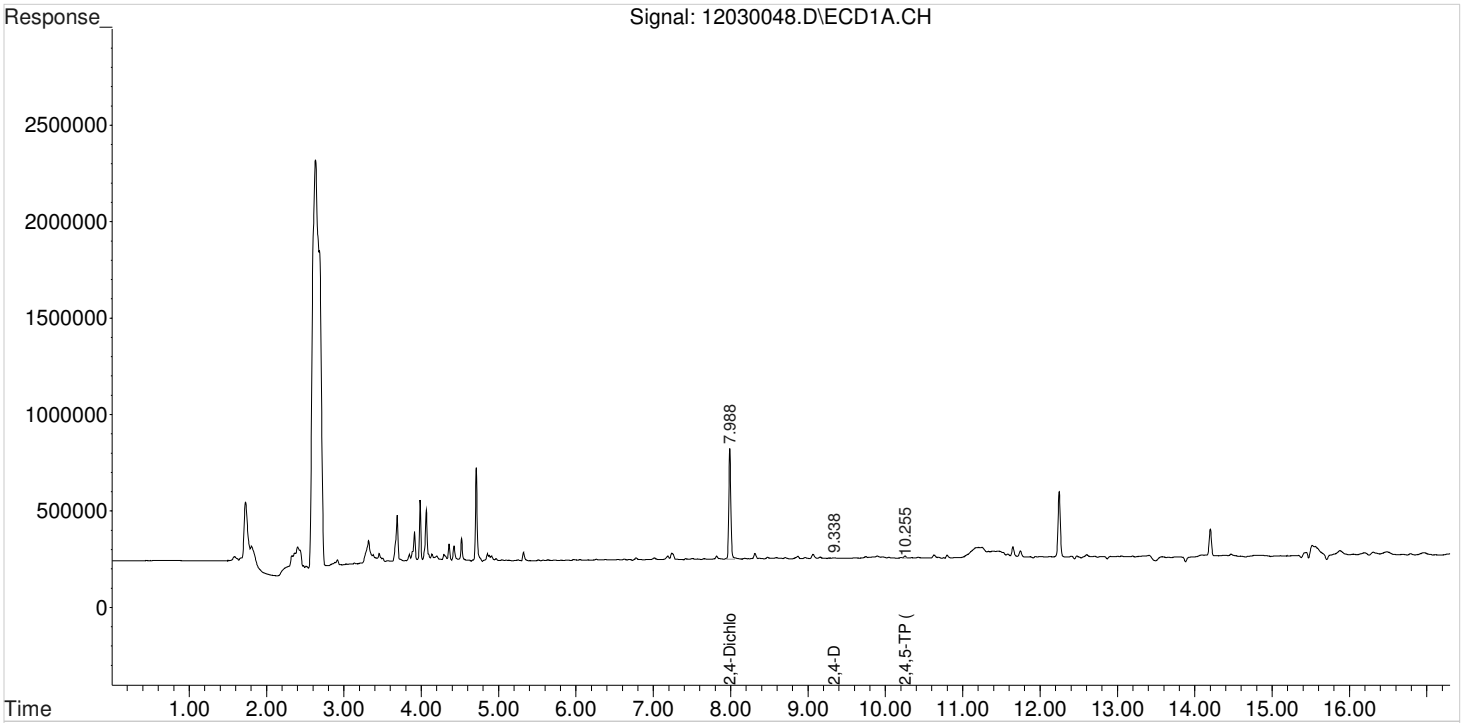
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

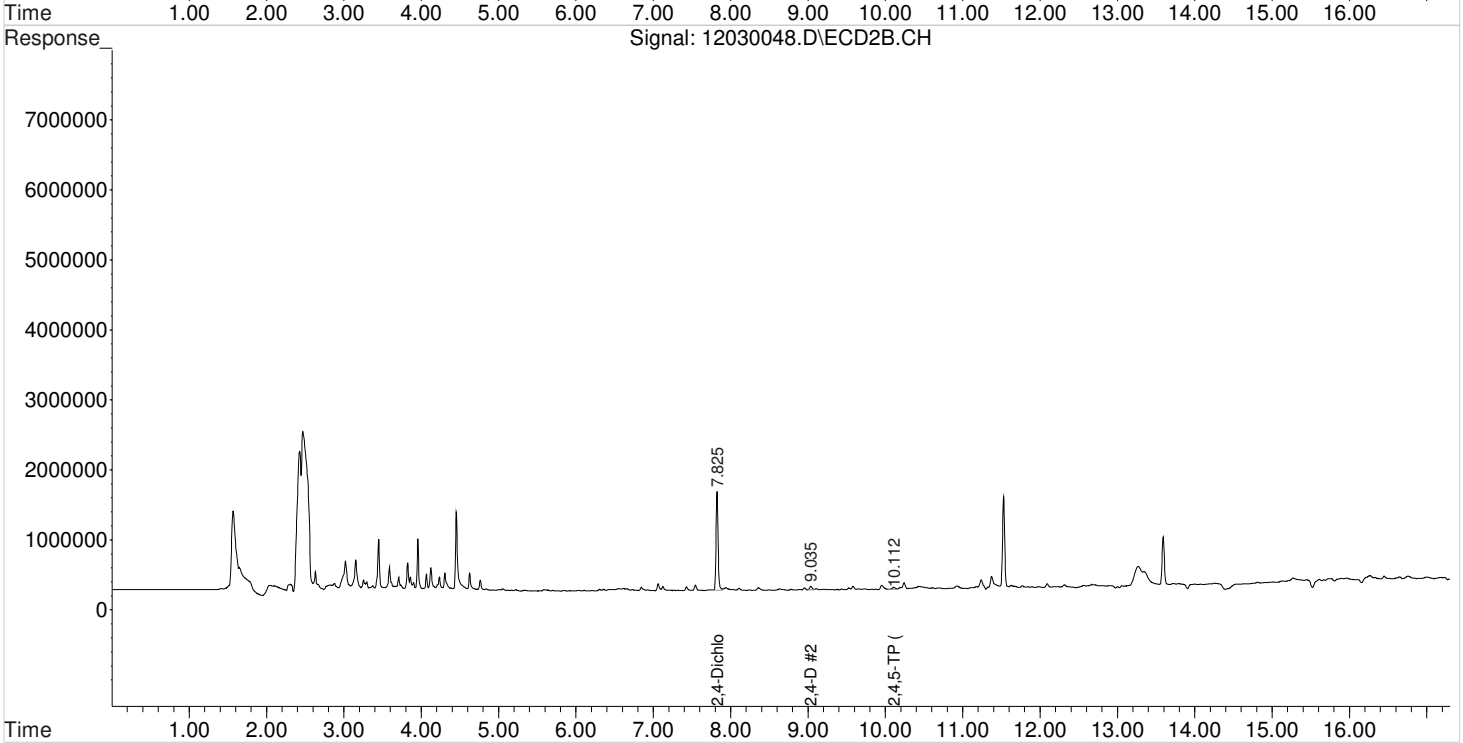
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030048.D Vial: 39
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:45 am Operator: UA
Sample : K2001727-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:18:10 2020
Quant Results File: 102120_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





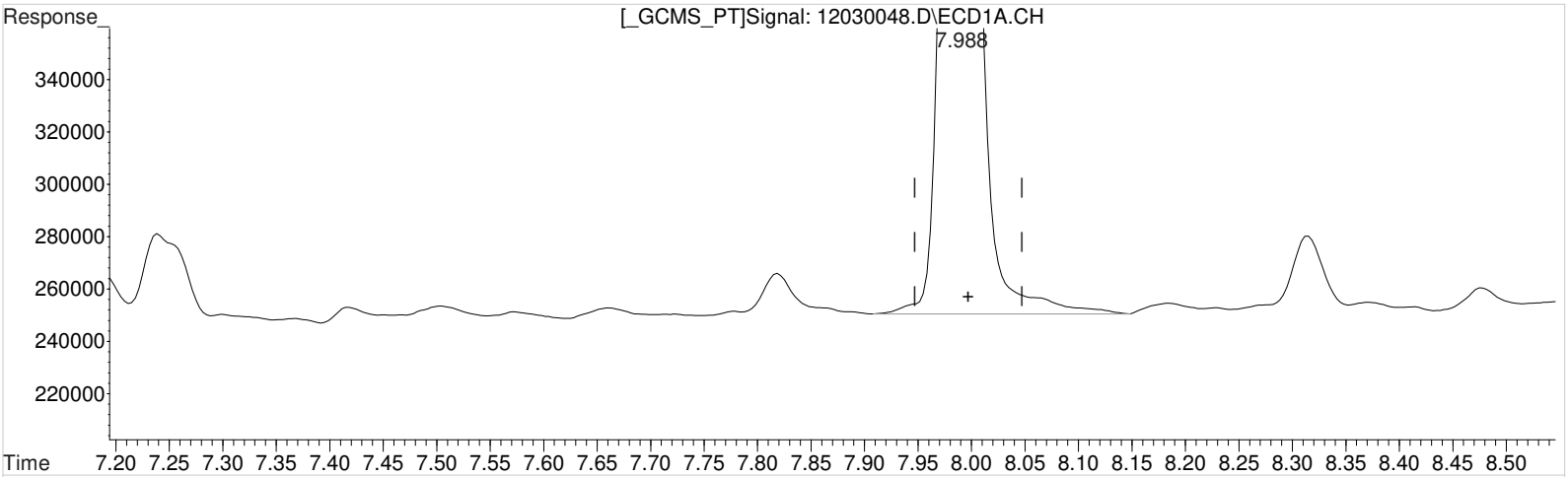
Quantitation Report (Qedit)

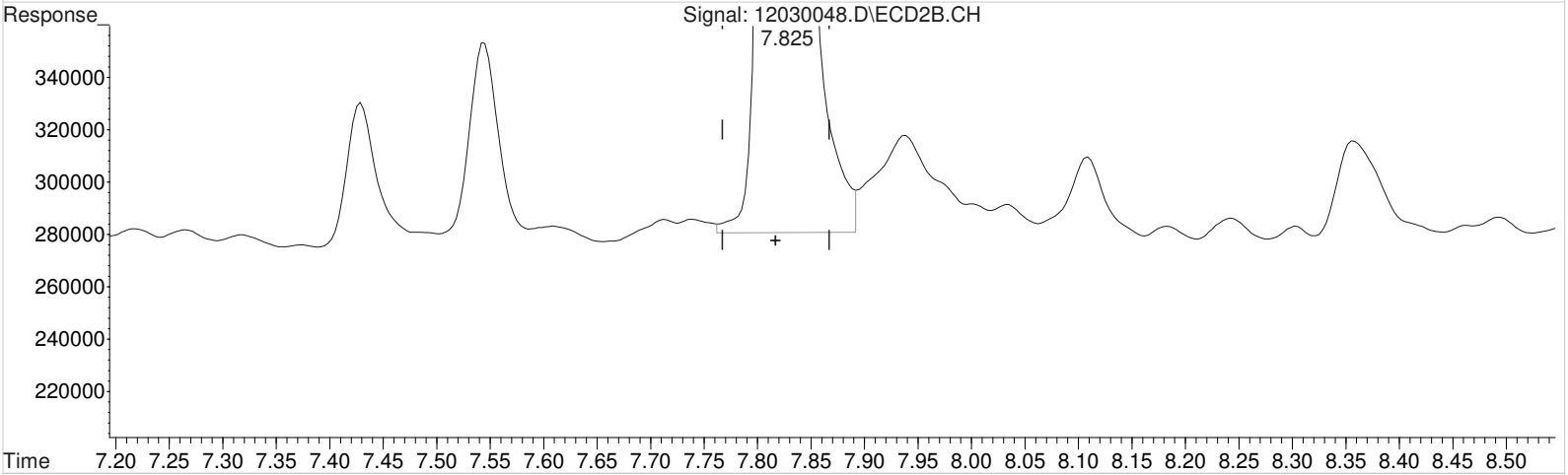
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030048.D Vial: 39
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:45 am Operator: UA
Sample : K2001727-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:10:27 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

7.988min 58.040 ppb

response 1056123

Manual Integration:

Before

12/04/20

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

7.825min 62.029 ppb

response 2623699

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030048.D Vial: 39
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:45 am Operator: UA
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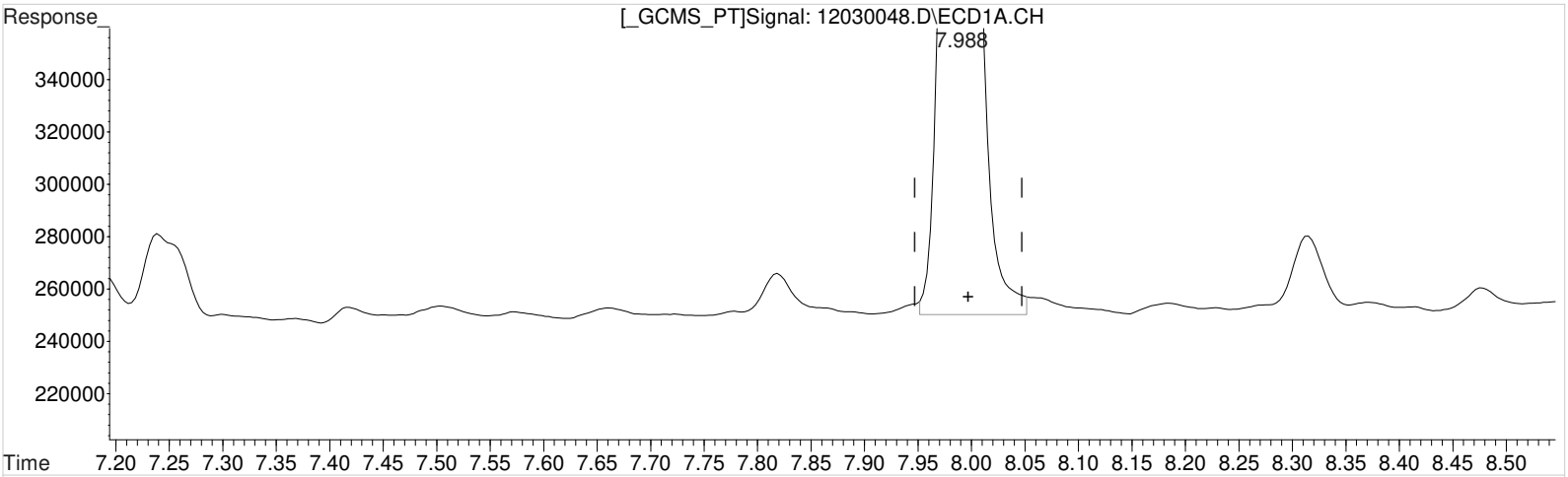
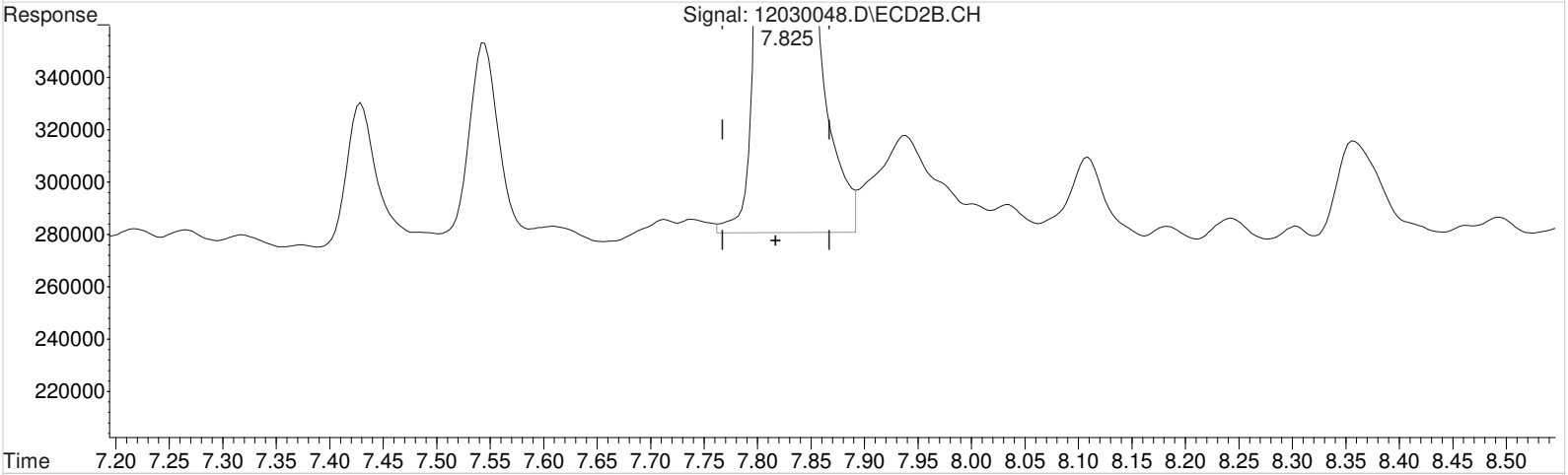
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.988min 56.951 ppb m

response 1036315

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.825min 62.029 ppb

response 2623699

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030048.D Vial: 39
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:45 am Operator: UA
Sample : K2001727-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:10:27 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
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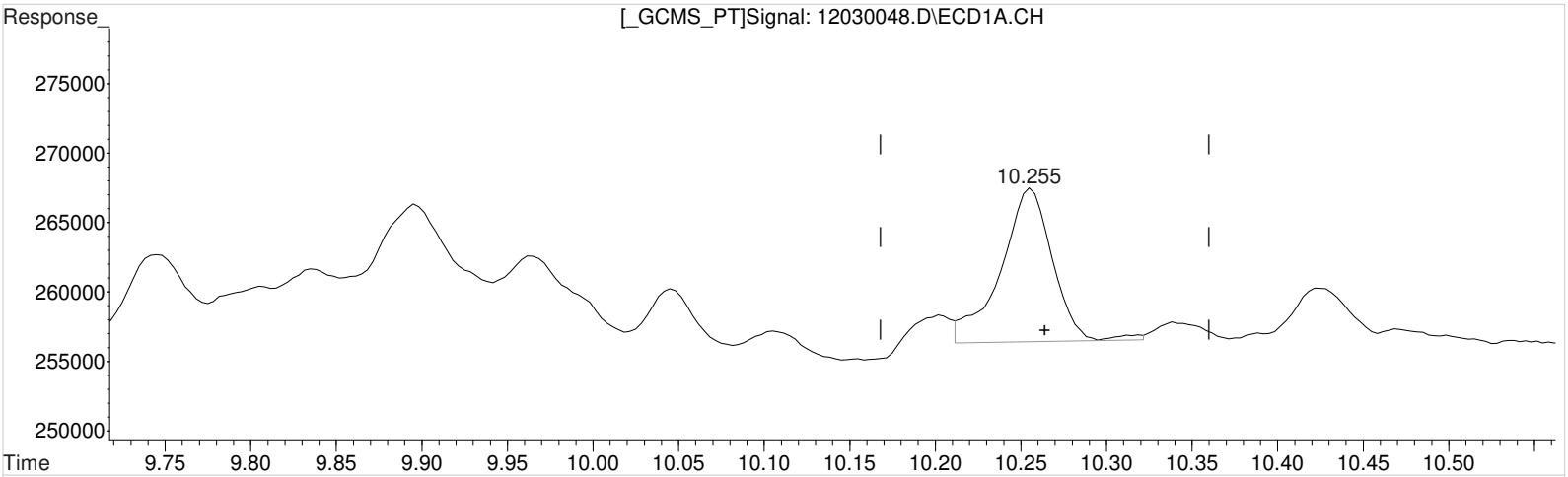
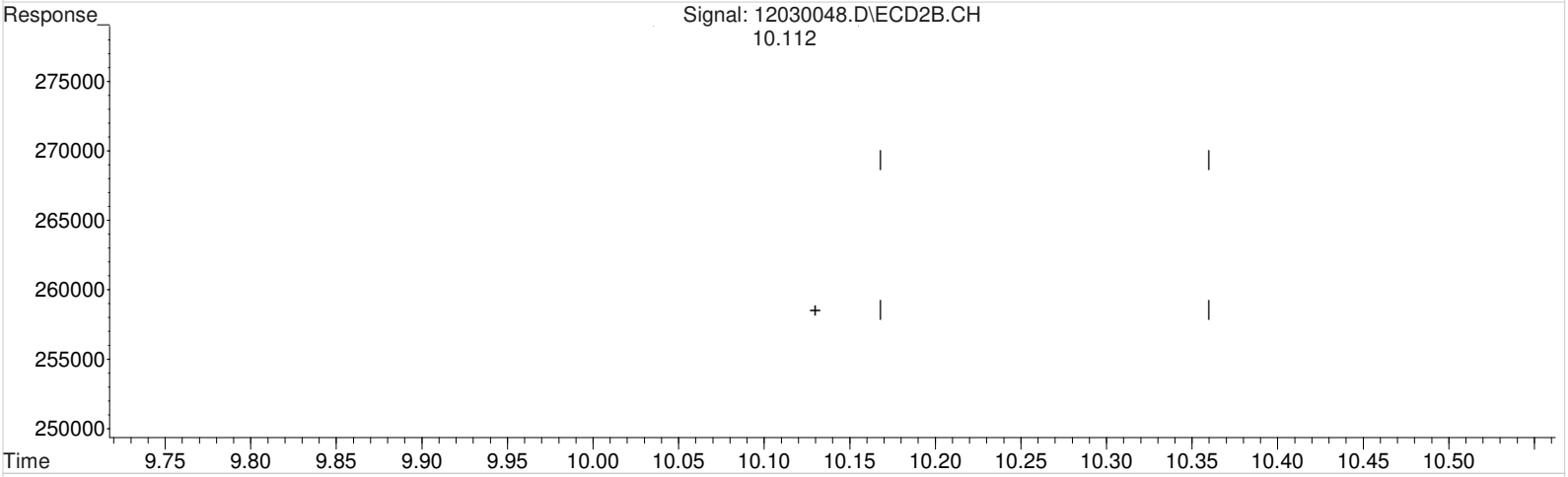
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.255min 0.247 ppb

response 23143

Manual Integration:

Before

12/04/20

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

10.112min 0.387 ppb

response 78549

(+) = Expected Retention Time

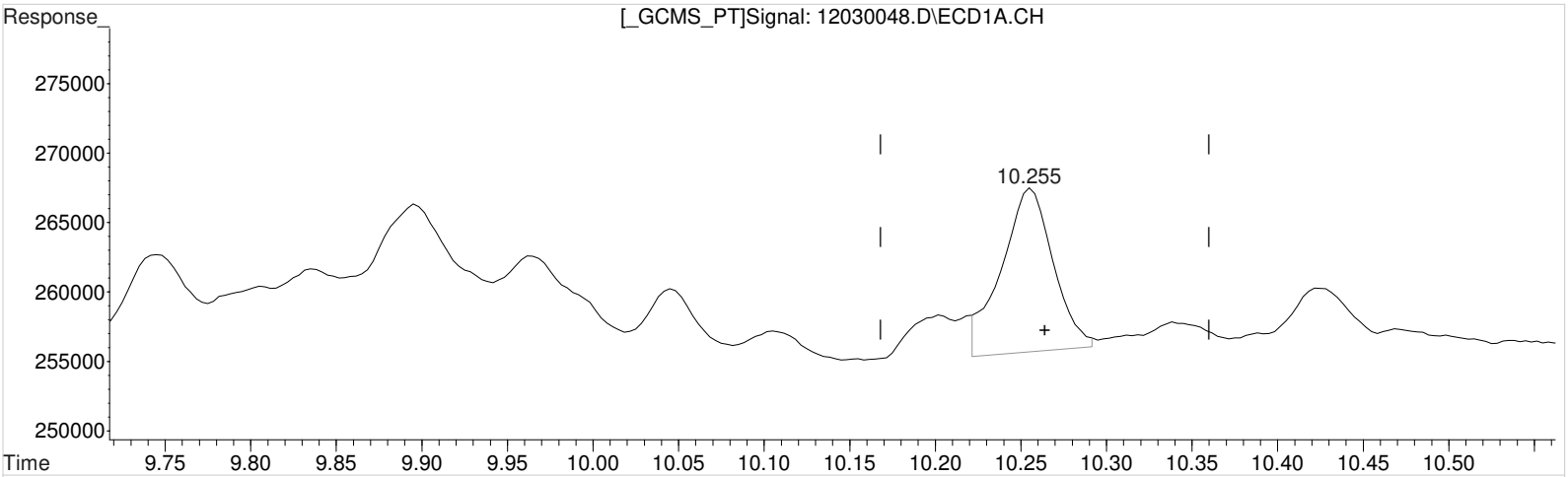
Quantitation Report (Qedit)

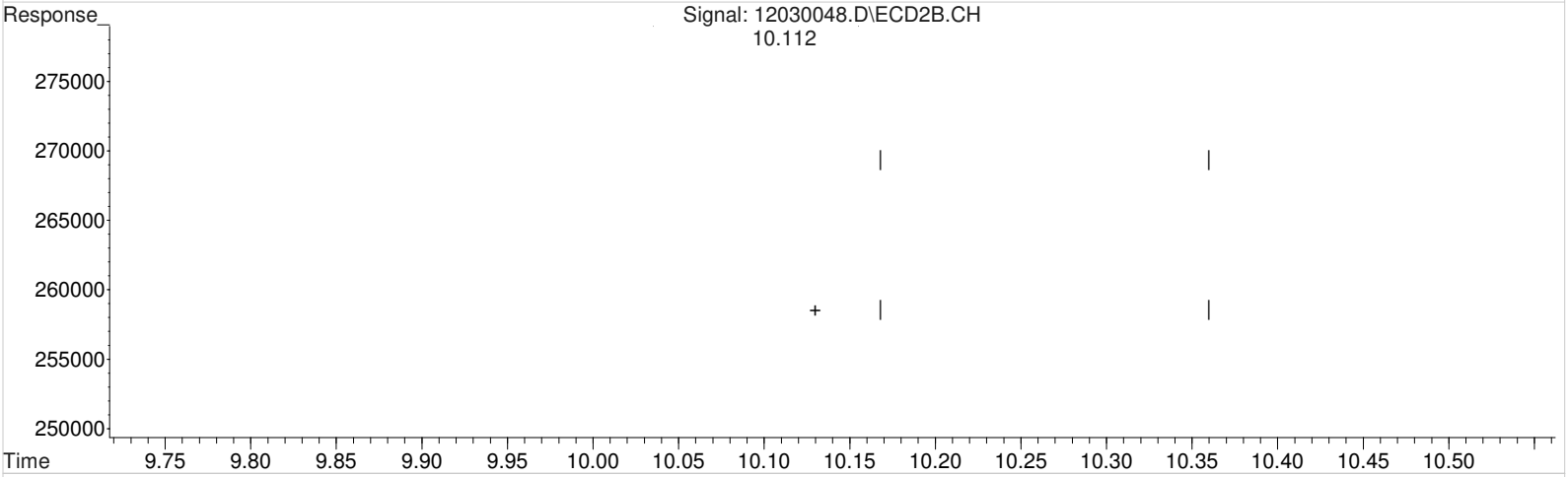
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030048.D Vial: 39
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 6:45 am Operator: UA
Sample : K2001727-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:10:27 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

10.255min 0.263 ppb m

response 24646

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

10.112min 0.387 ppb

response 78549

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030049.D\
Lab ID: K2010727-005
RunType: N/A
Matrix: Sediment

Date Acquired: 12/4/20 07:08:00
Batch ID: 705934
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	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	28		20	CCV+ND
	2,4-D	21		20	CCV+ND

Primary Review: _____

Printed: 12/8/20 17:31
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030049.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 07:08:00	**Vial:**	20
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010727-005	**Raw Units:**	ppb

Bottle ID:	K2010727-005.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	K2010727
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82 -0.01	1207736	3326178	66.371	78.637	66	79	66	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.12 -0.02	23477	28199	0.251	0.139 CCV	0.64U	0.35U	3.7 U	Y
2,4-D	9.34 +0.02	9.04 -0.03	12490	85124	0.588	1.663 CCV	1.5U	4.2U	12 U	Y

Prep Amount:	30.050 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	65.20

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

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

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

Printed: 12/8/20 17:31
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030049.D Vial: 40
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:08 am Operator: UA
Sample : K2001727-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:20:14 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 17:31:59 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...	7.989	7.823	1207736	3326178	66.371m	78.637m
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.336	9.036	12490	85124	0.588	1.663 #
8)	m	2,4,5-TP ...	10.256	10.116	23477	28199	0.251	0.139 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030049.D Vial: 40
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:08 am Operator: UA
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Misc : Multiplr: 1.00
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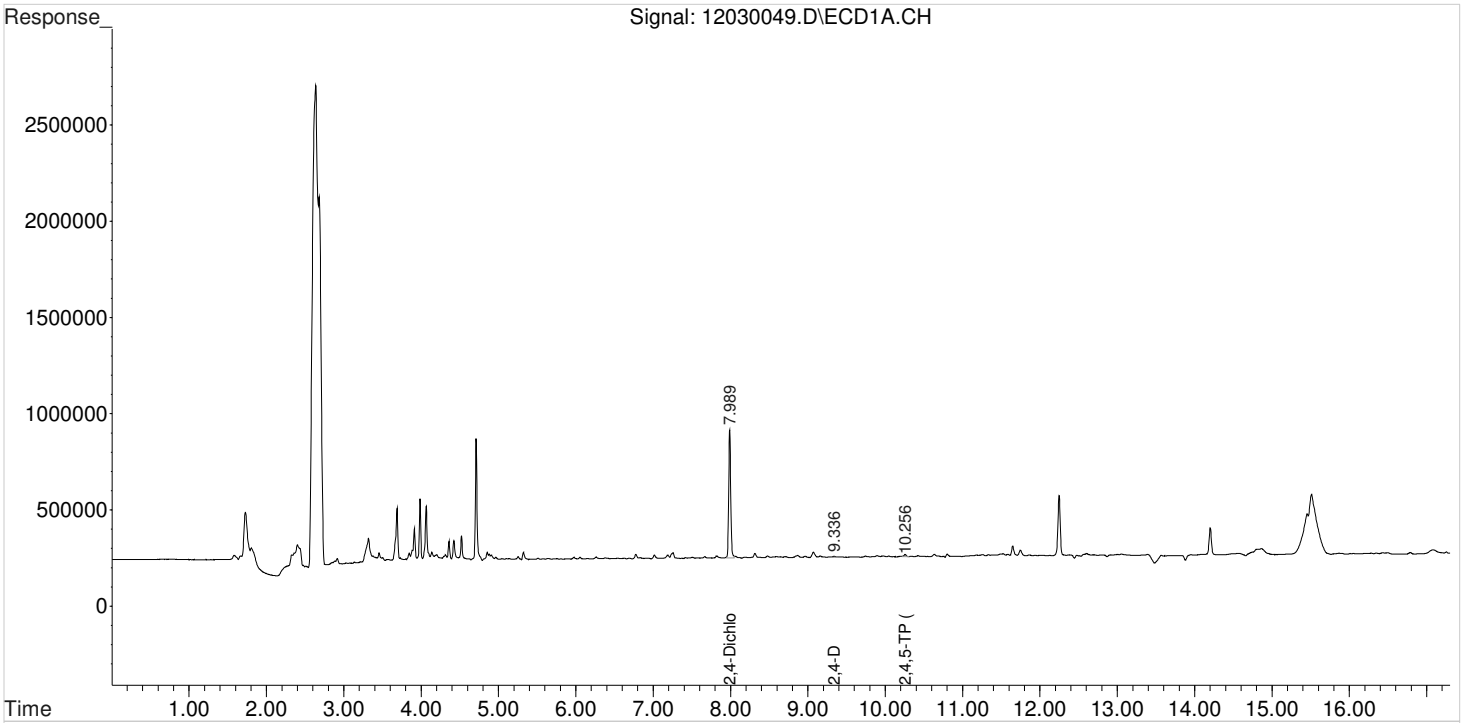
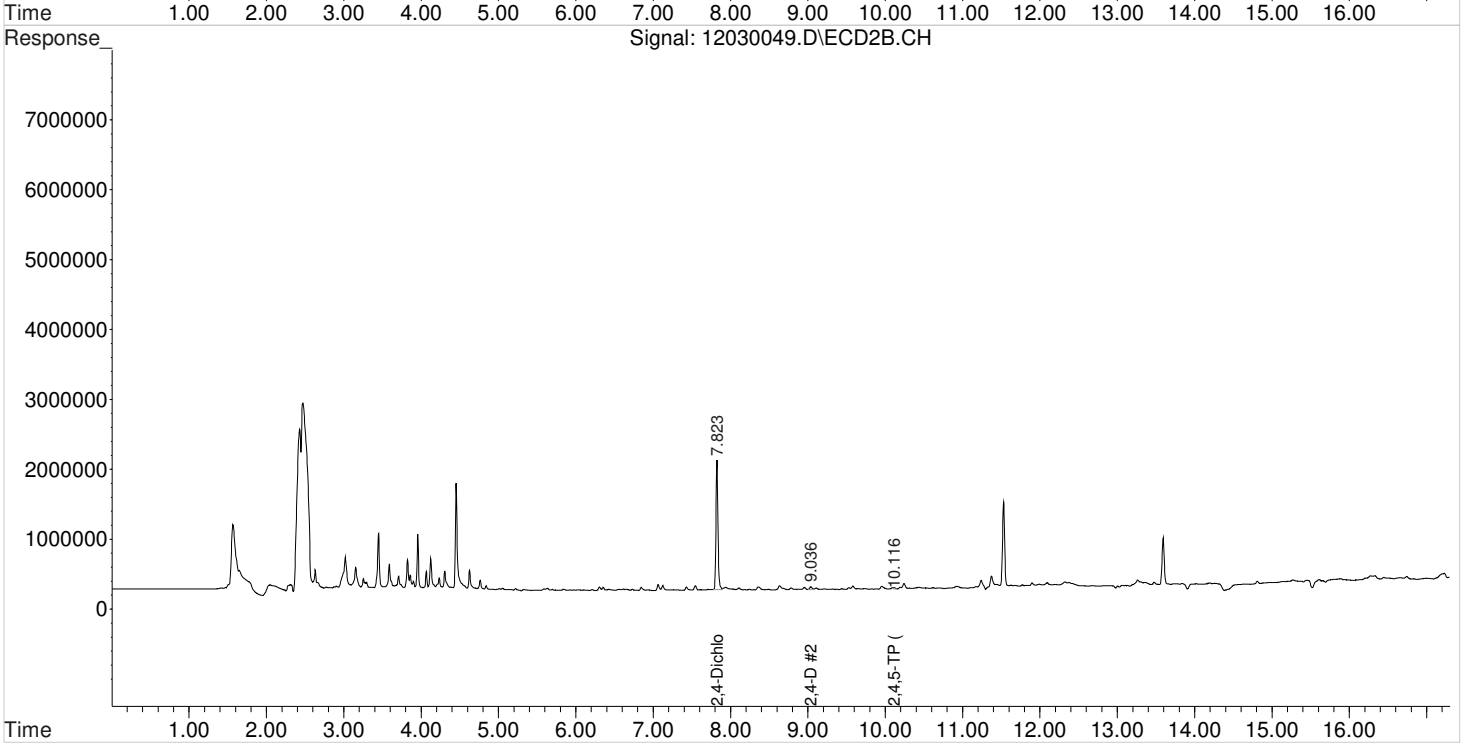
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





Quantitation Report (Qedit)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030049.D Vial: 40
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:08 am Operator: UA
Sample : K2001727-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:10 2020
Quant Results File: 102120_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
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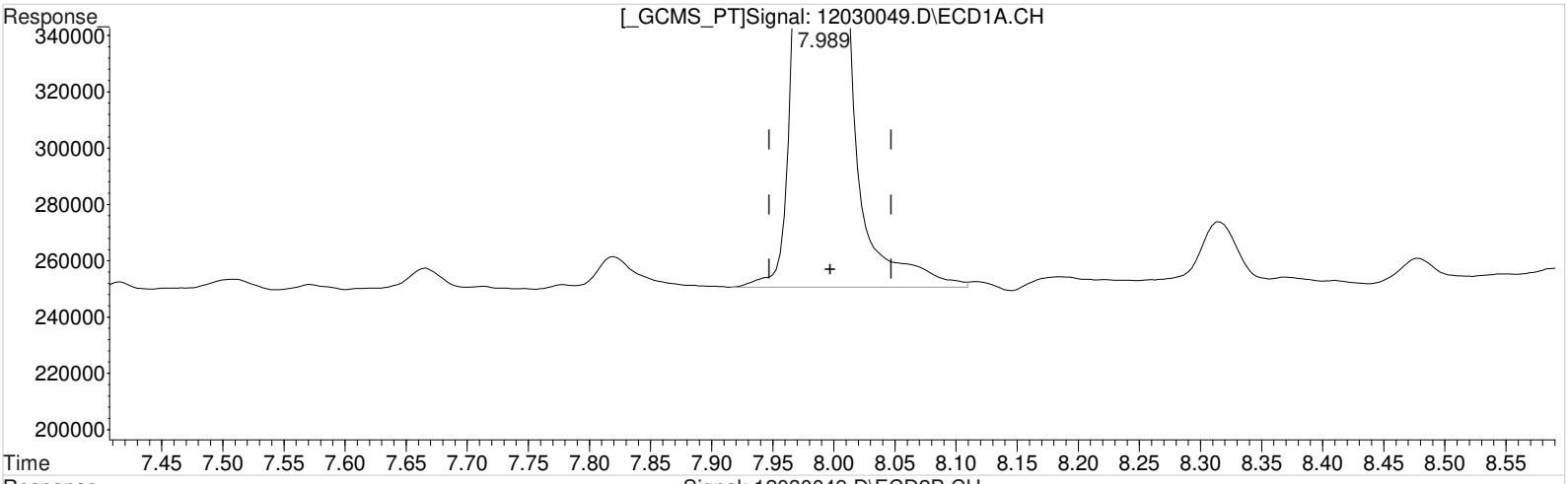

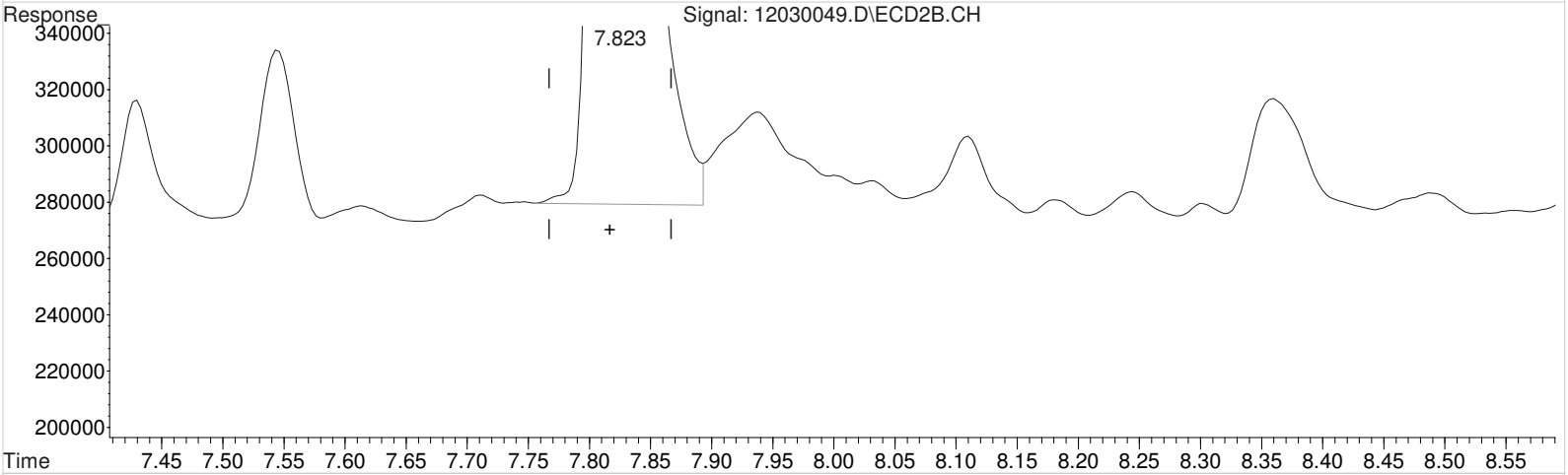

QEdit

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

7.989min 67.617 ppb

response 1230403

Manual Integration:

Before

12/04/20

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

7.823min 79.161 ppb

response 3348350

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030049.D Vial: 40
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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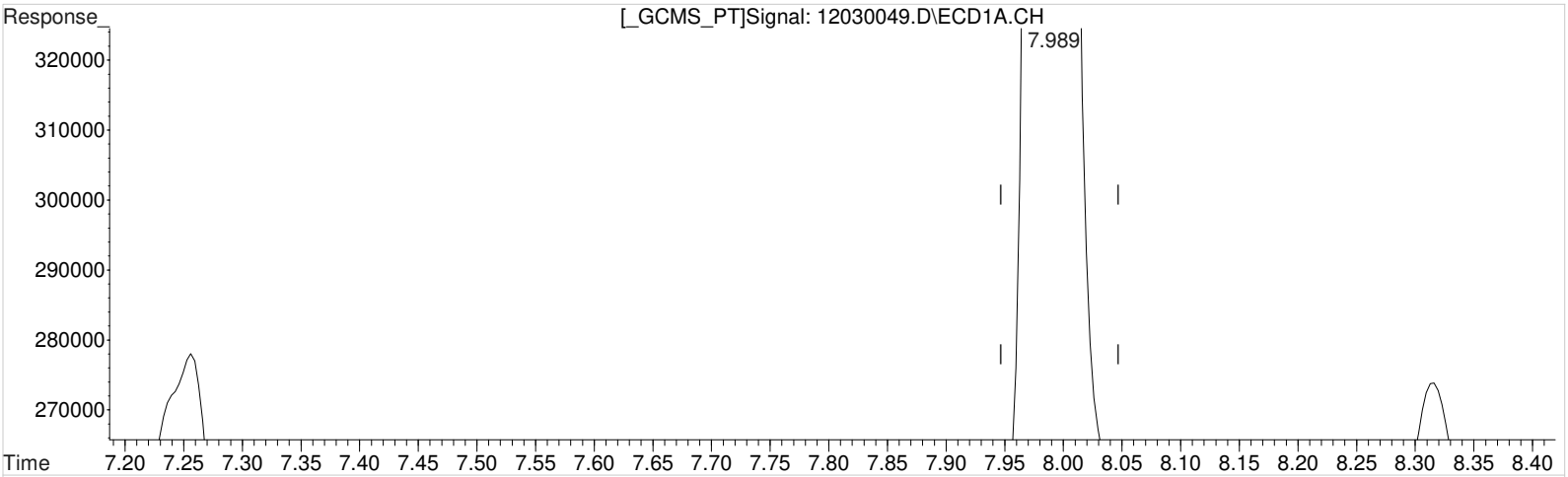
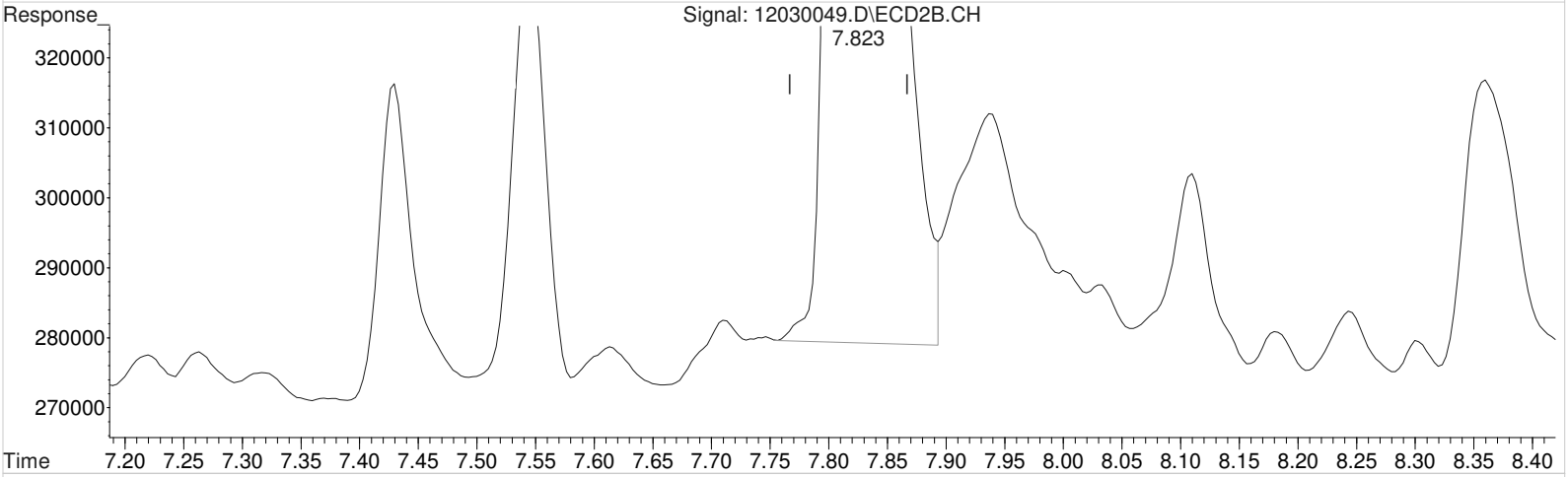
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.989min 66.371 ppb m

response 1207736

Manual Integration:

Before

12/04/20

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

7.823min 79.161 ppb

response 3348350

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030049.D Vial: 40
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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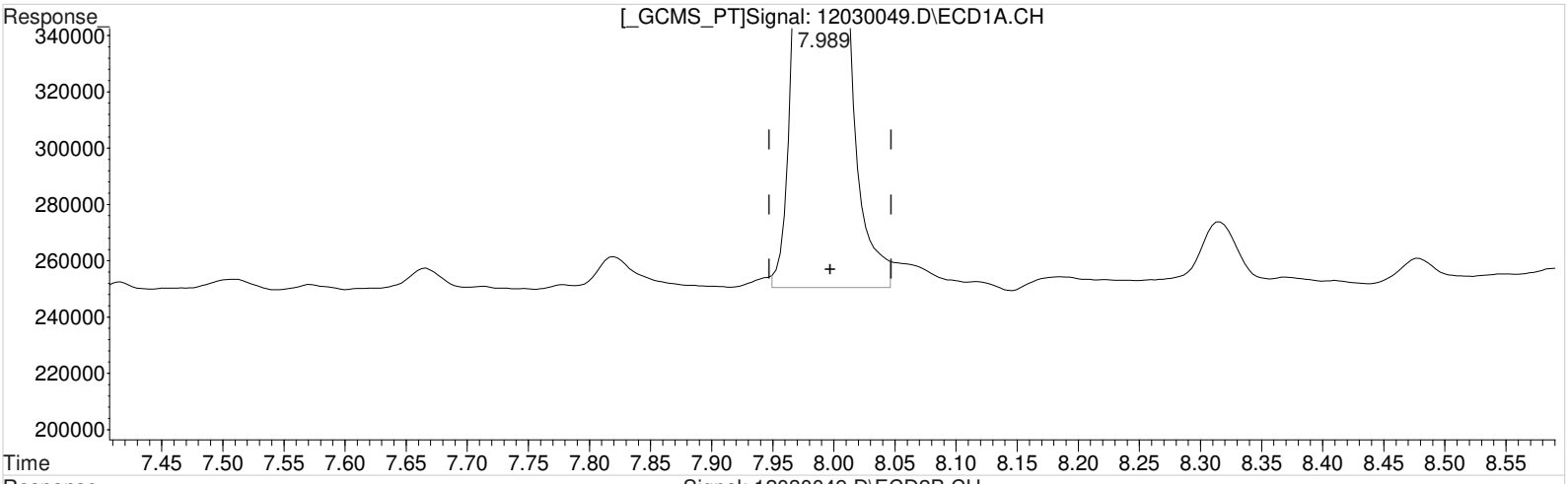

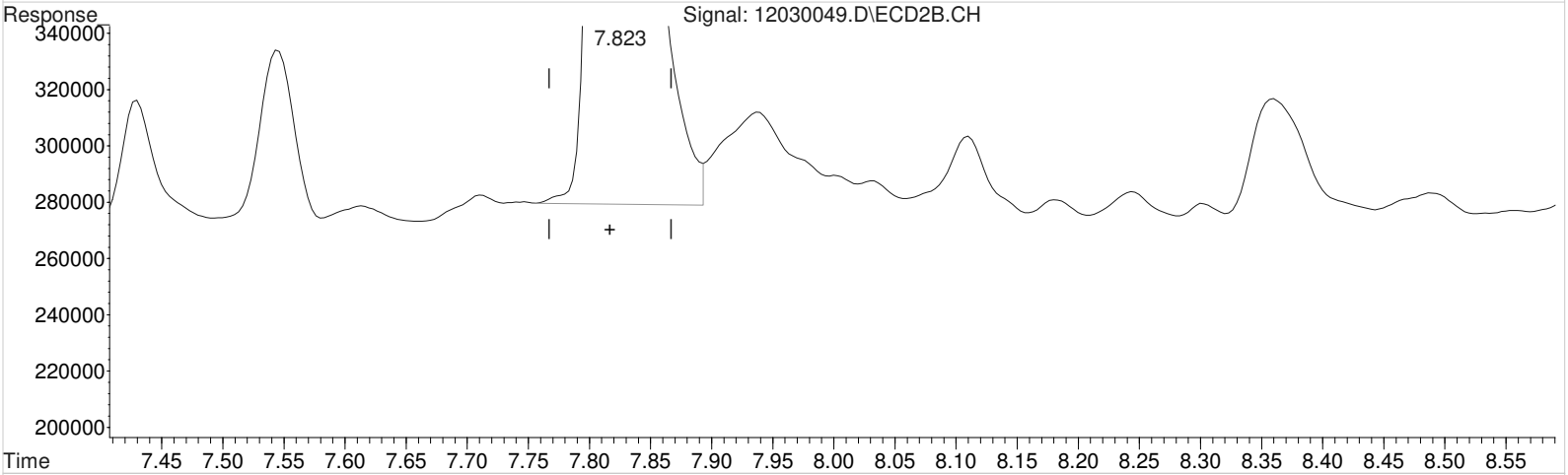

QEdit

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

7.989min 66.371 ppb m

response 1207736

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.823min 79.161 ppb

response 3348350

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

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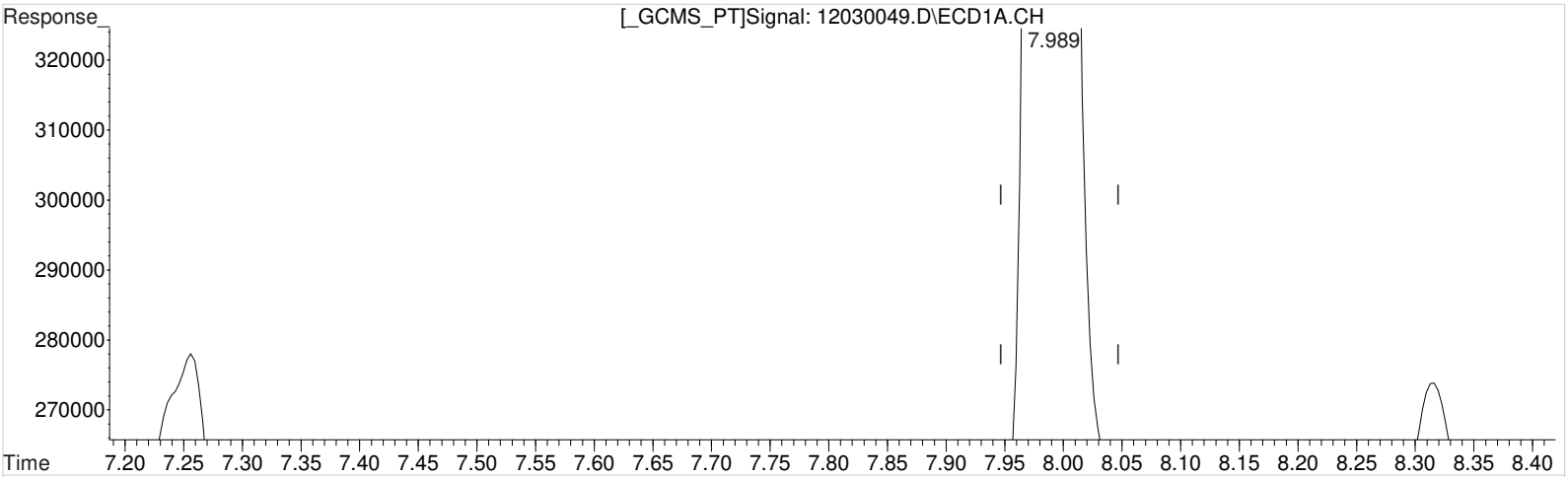
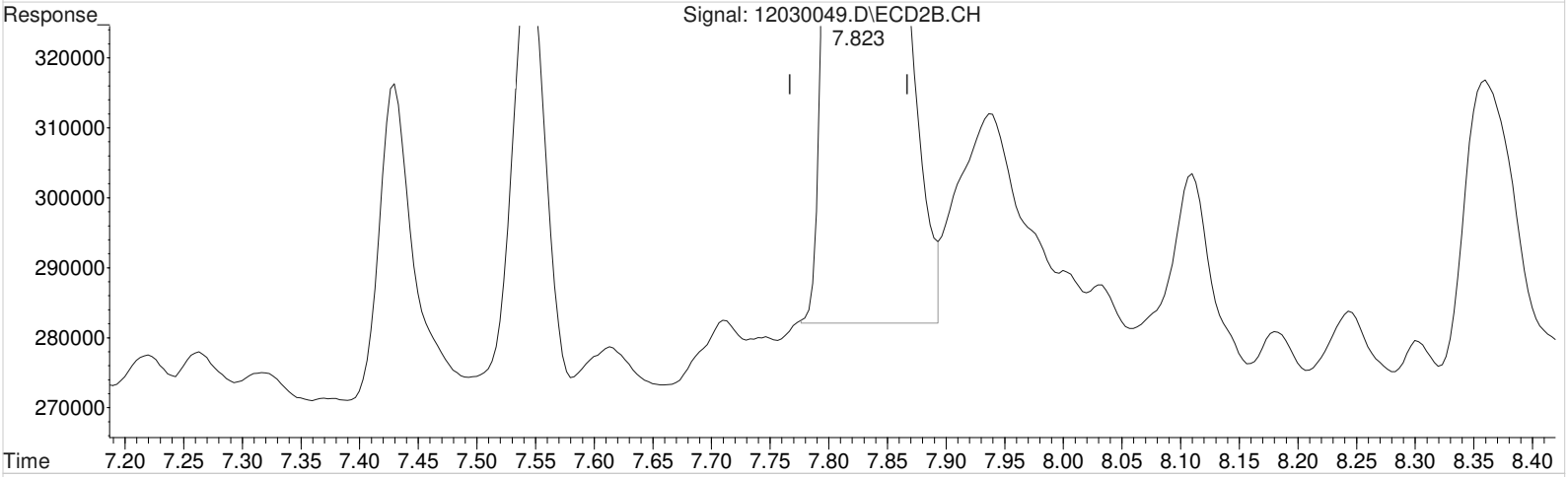
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.989min 66.371 ppb m

response 1207736

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.823min 78.637 ppb m

response 3326178

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030050.D\
Lab ID: K2010727-006
RunType: N/A
Matrix: Sediment

Date Acquired: 12/4/20 07:31:00
Batch ID: 705934
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	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	28		20	CCV+ND
	2,4-D	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030050.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 07:31:00	**Vial:**	21
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010727-006	**Raw Units:**	ppb

Bottle ID:	K2010727-006.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	K2010727
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83	1183794	3249514	65.056	76.825	65	77	65	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.11 -0.03	23832	10708	0.254	0.053 CCV	0.57U	0.12U	3.3 U	Y
2,4-D	9.28 -0.04	9.04 -0.03	4485	87063	0.211	1.700 CCV	0.47U	3.8U	11 U	Y

Prep Amount:	30.025 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	74.60

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

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

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

Printed: 12/8/20 17:31
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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030050.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:31 am Operator: UA
Sample : K2001727-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:24:36 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...	7.989	7.826	1183794	3249514	65.056m	76.825m
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.279	9.039	4485	87063	0.211	1.700 #
8)	m	2,4,5-TP ...	10.256	10.113	23832	10708	0.254m	0.053m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

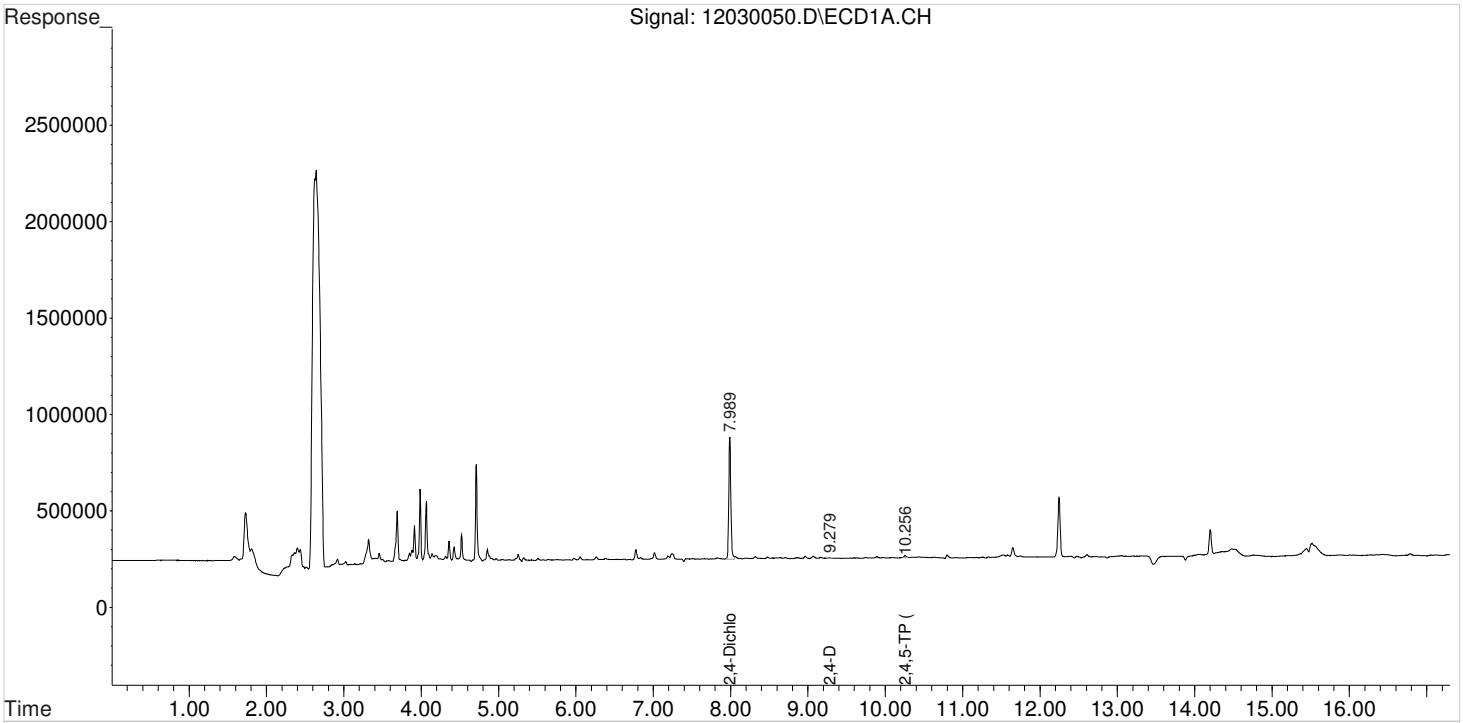
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

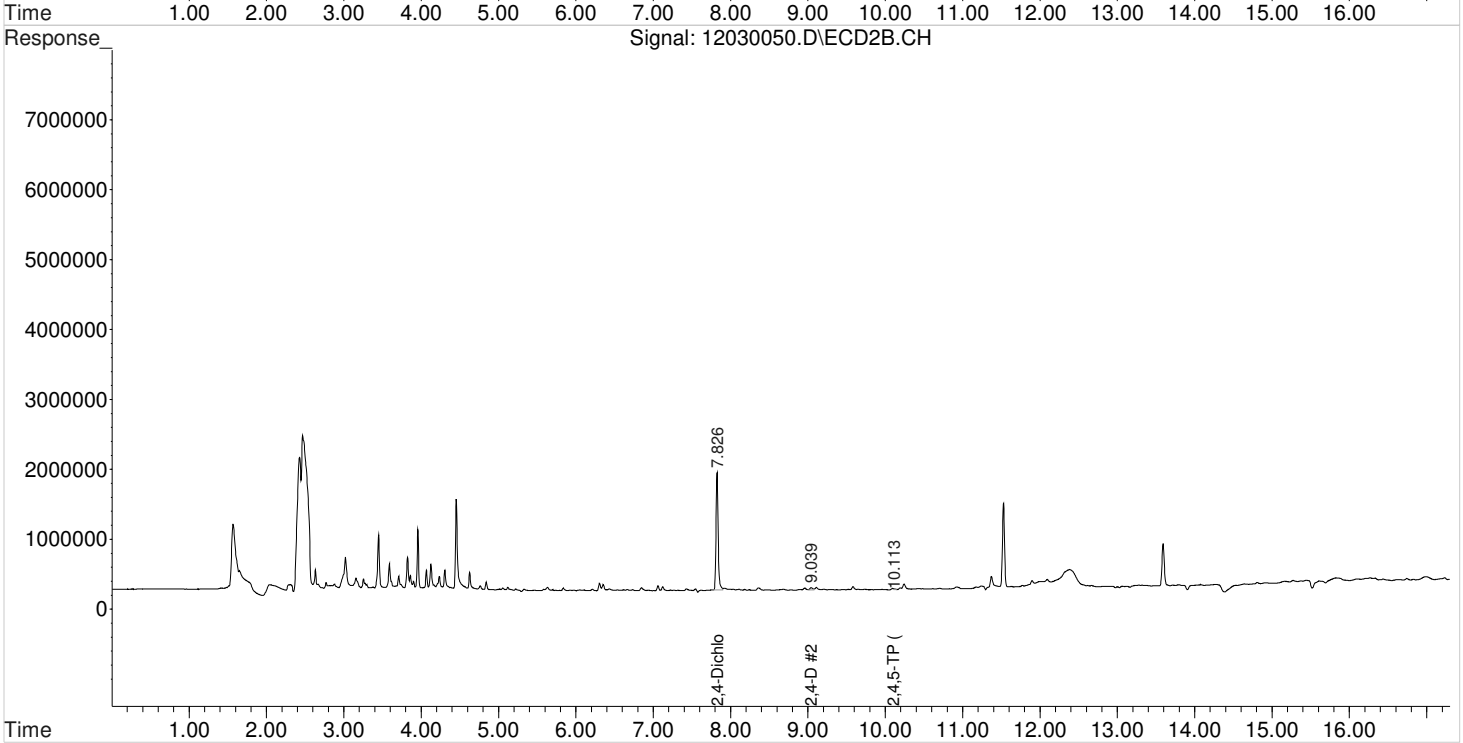
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030050.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:31 am Operator: UA
Sample : K2001727-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:24:36 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



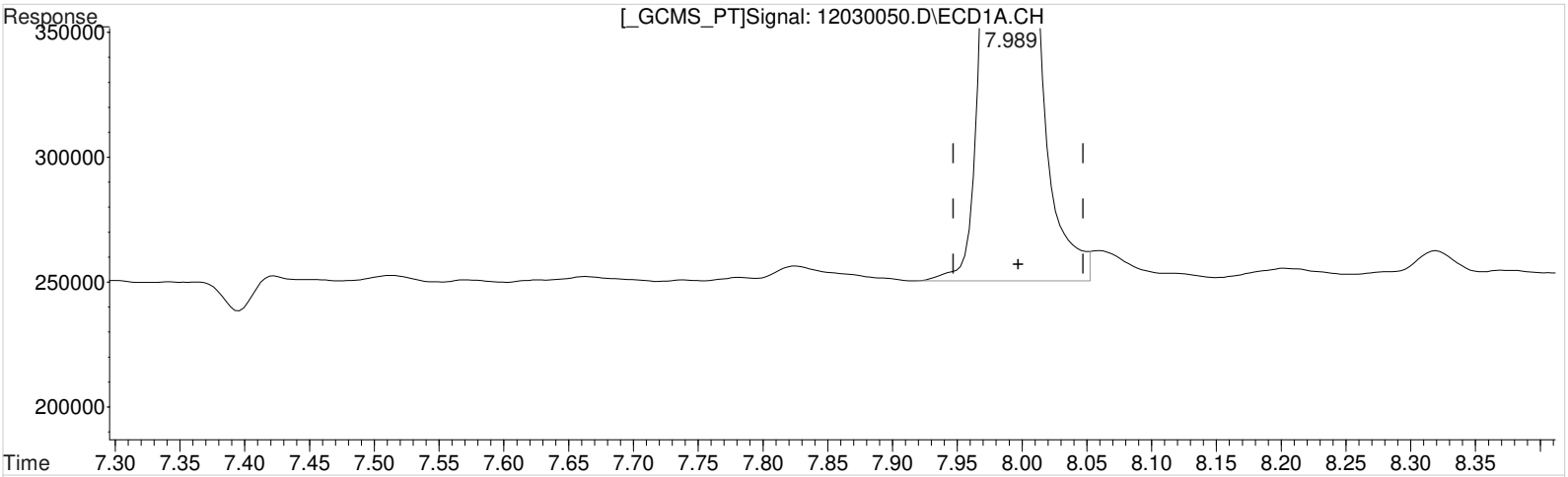


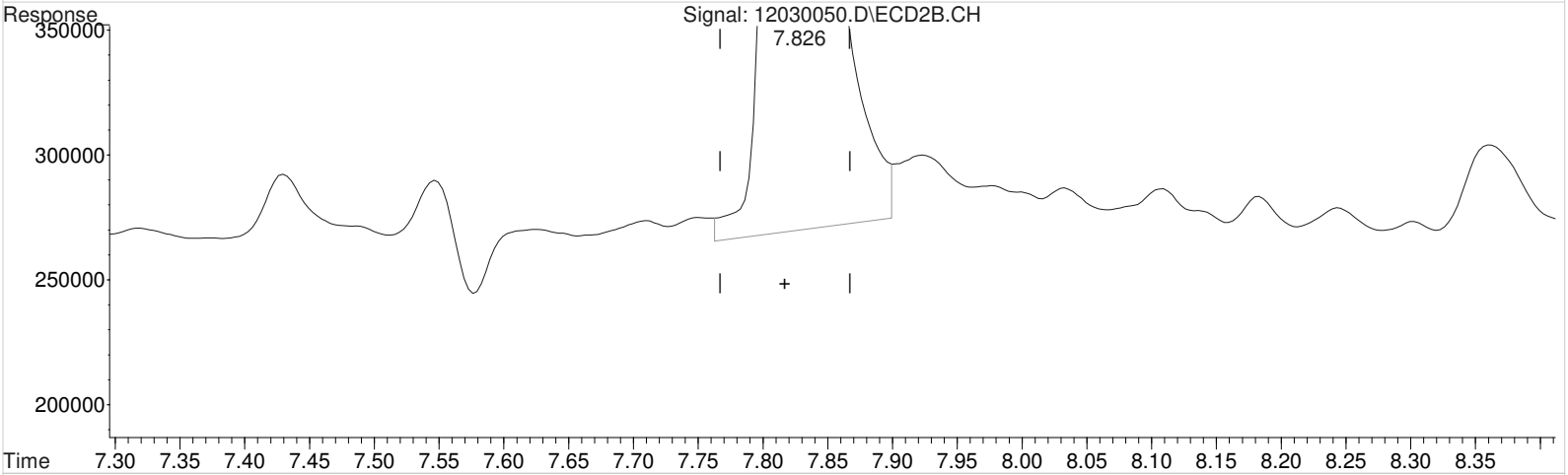
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030050.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:31 am Operator: UA
Sample : K2001727-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:13 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)

7.989min 65.236 ppb

response 1187071

Manual Integration:

Before

12/04/20

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

7.826min 77.696 ppb

response 3286368

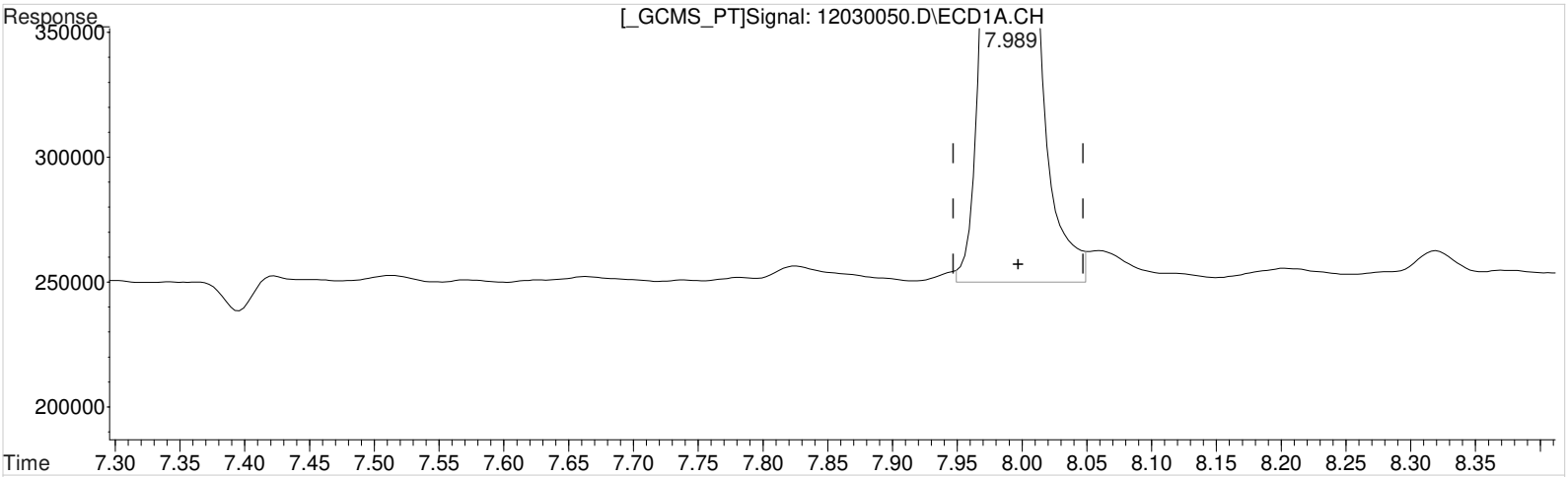
(+) = Expected Retention Time

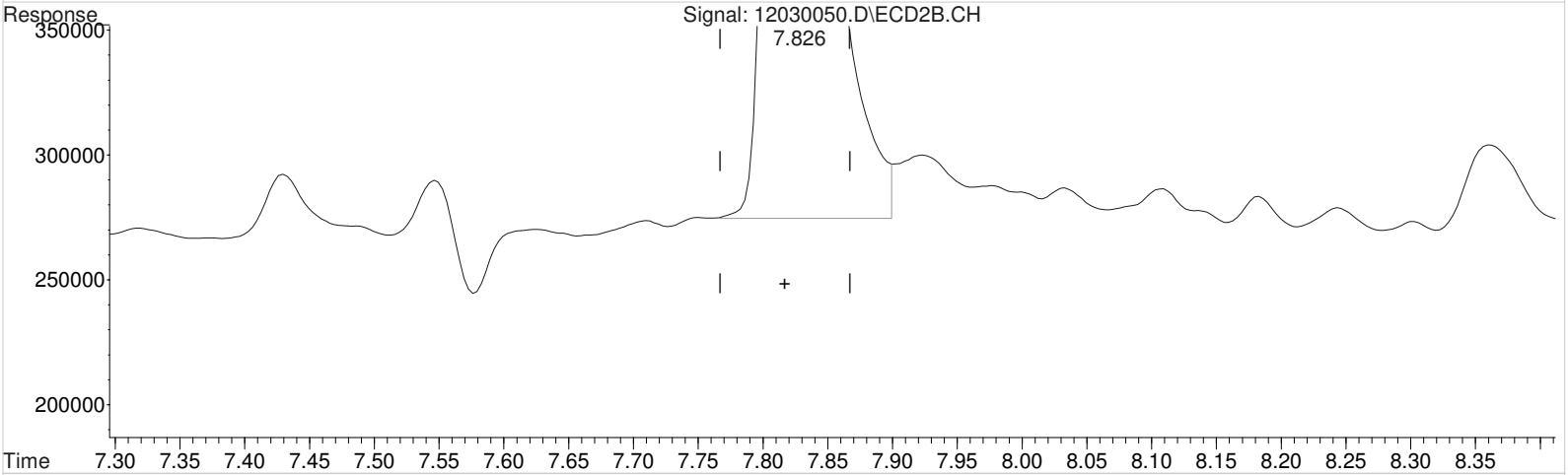
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030050.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:31 am Operator: UA
Sample : K2001727-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:13 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)

7.989min 65.056 ppb m

response 1183794

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.826min 76.825 ppb m

response 3249514

(+) = Expected Retention Time

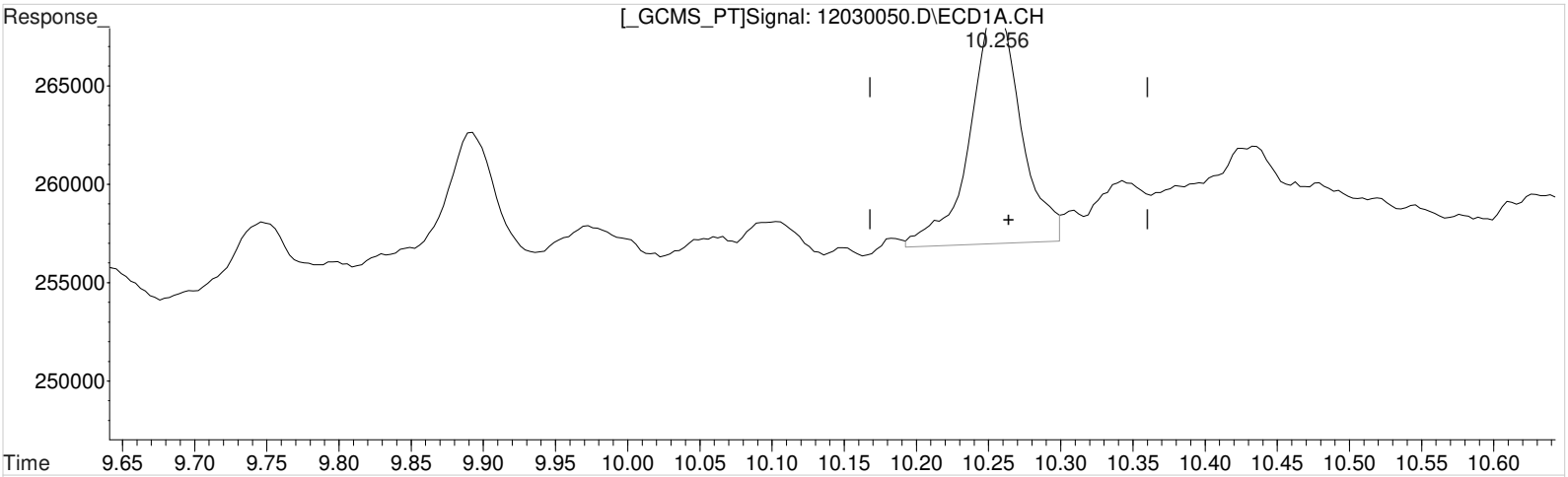
Quantitation Report (Qedit)

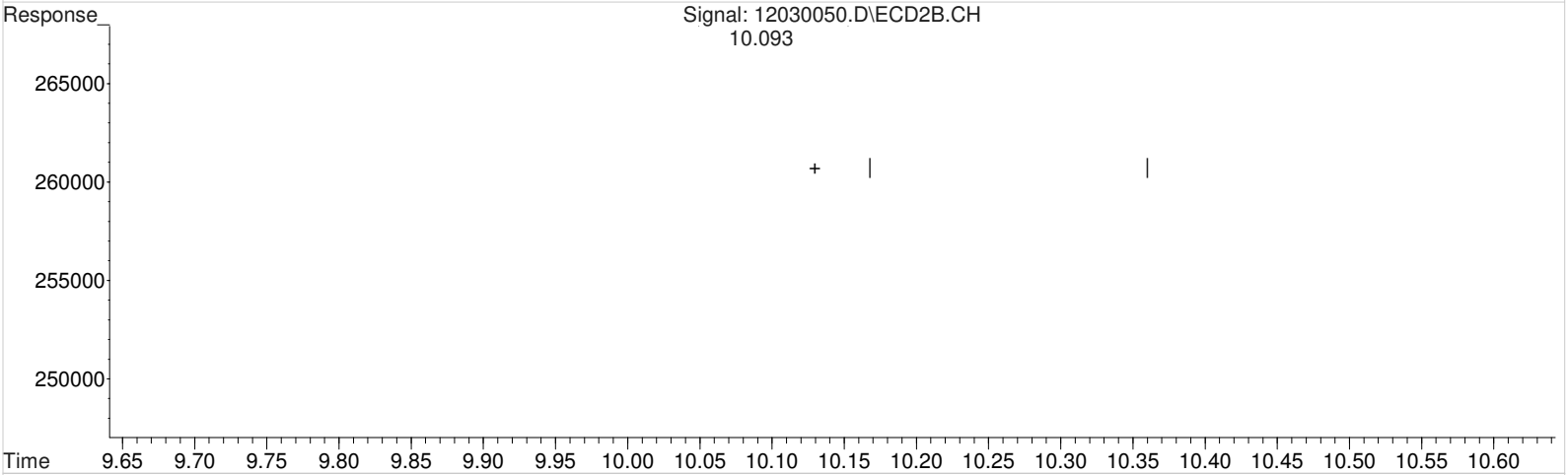
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030050.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:31 am Operator: UA
Sample : K2001727-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:13 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)

10.256min 0.312 ppb

response 29254

Manual Integration:

Before

12/04/20

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

10.093min 0.309 ppb

response 62735

(+) = Expected Retention Time

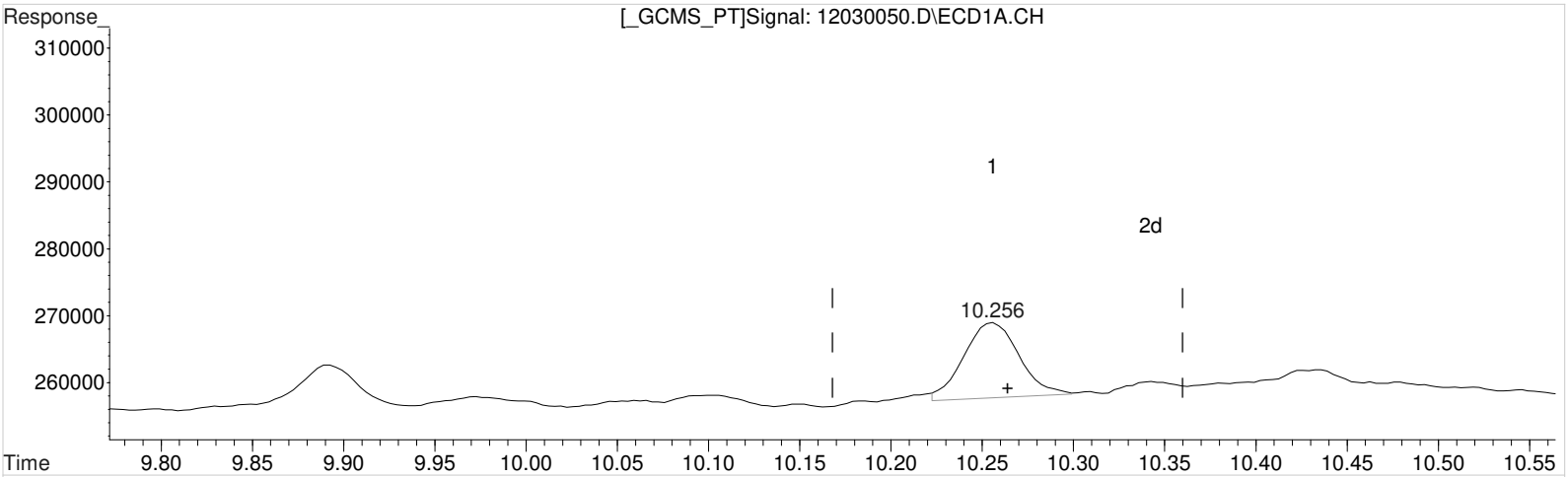
Quantitation Report (Qedit)

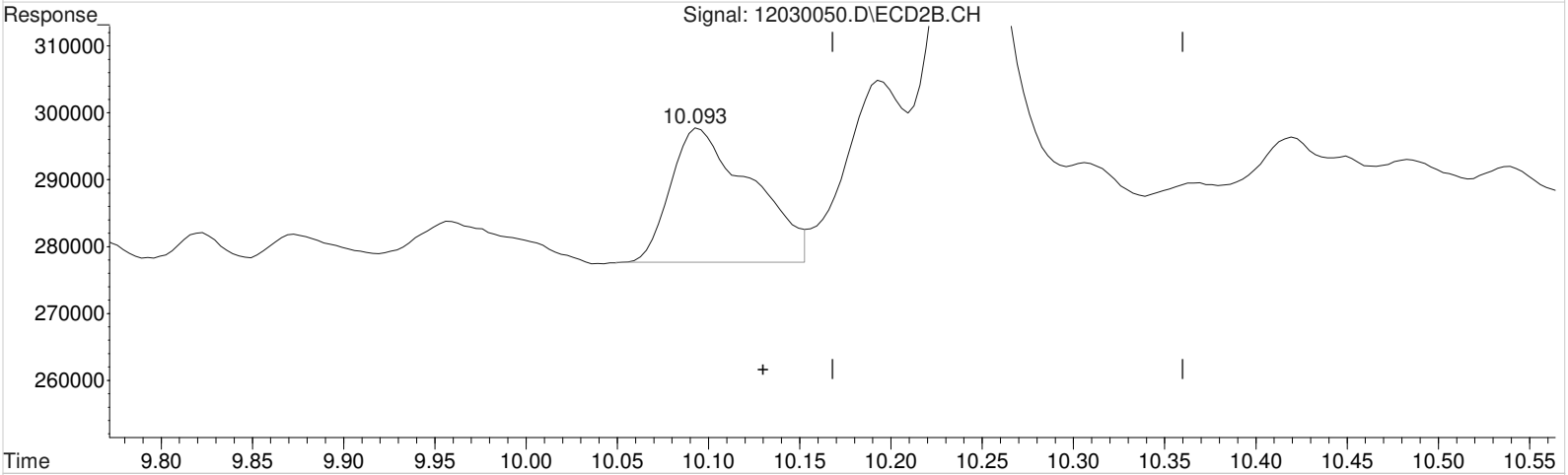
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030050.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:31 am Operator: UA
Sample : K2001727-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:13 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)

10.256min 0.254 ppb m

response 23832

Manual Integration:

Before

12/04/20

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

10.093min 0.309 ppb

response 62735

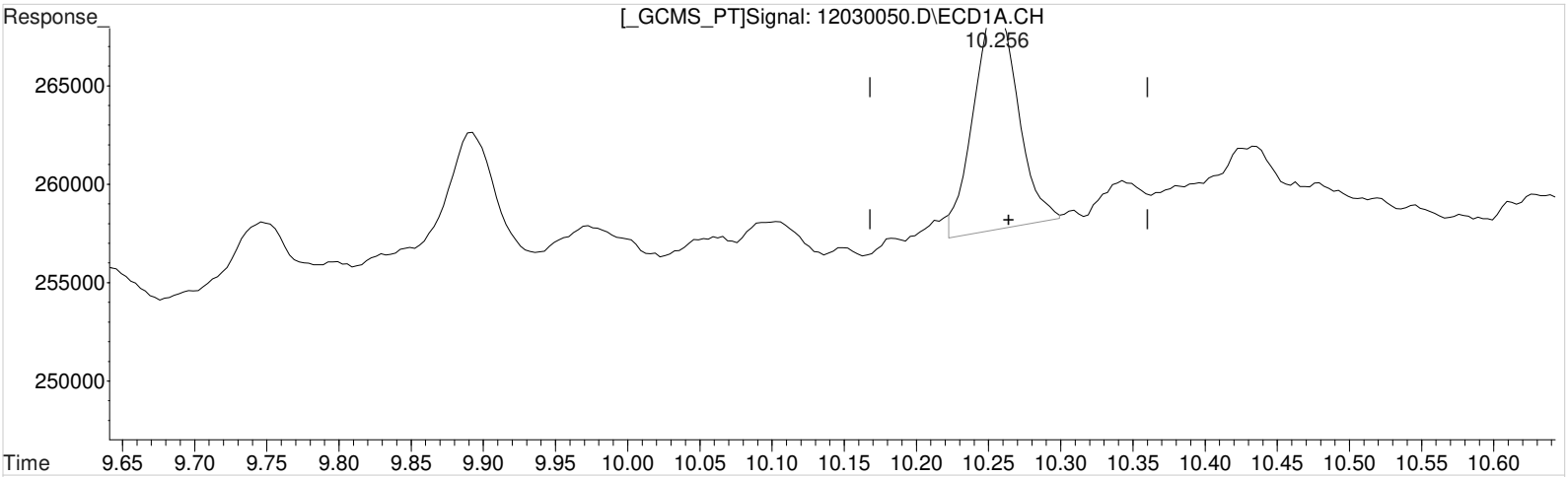
(+) = Expected Retention Time

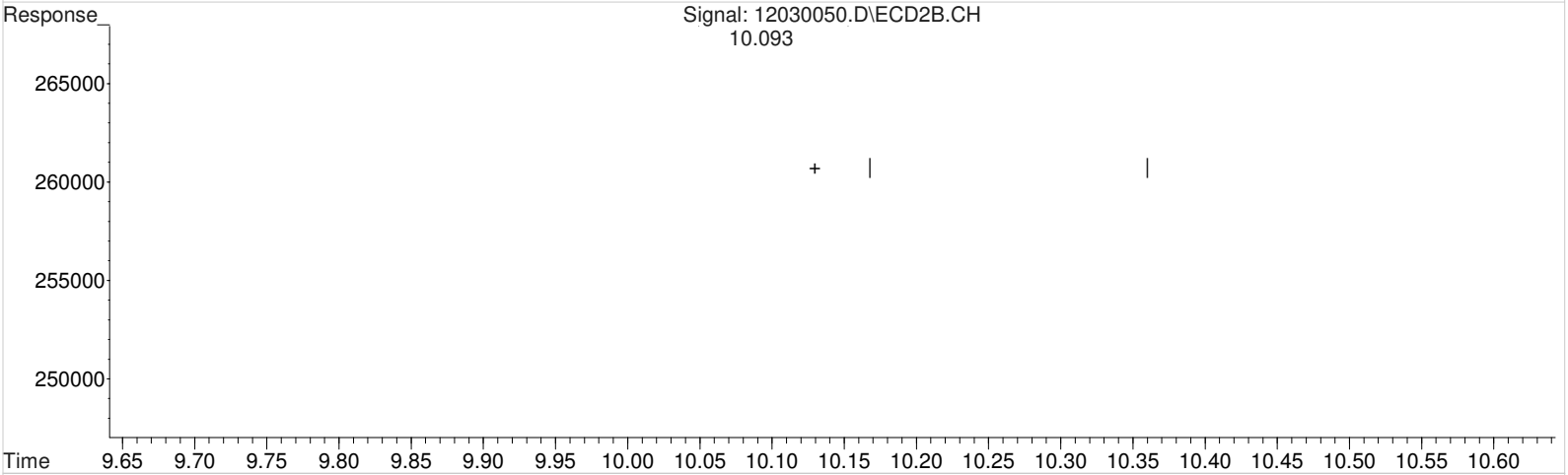
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030050.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:31 am Operator: UA
Sample : K2001727-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:13 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)

10.256min 0.254 ppb m

response 23832

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

10.093min 0.309 ppb

response 62735

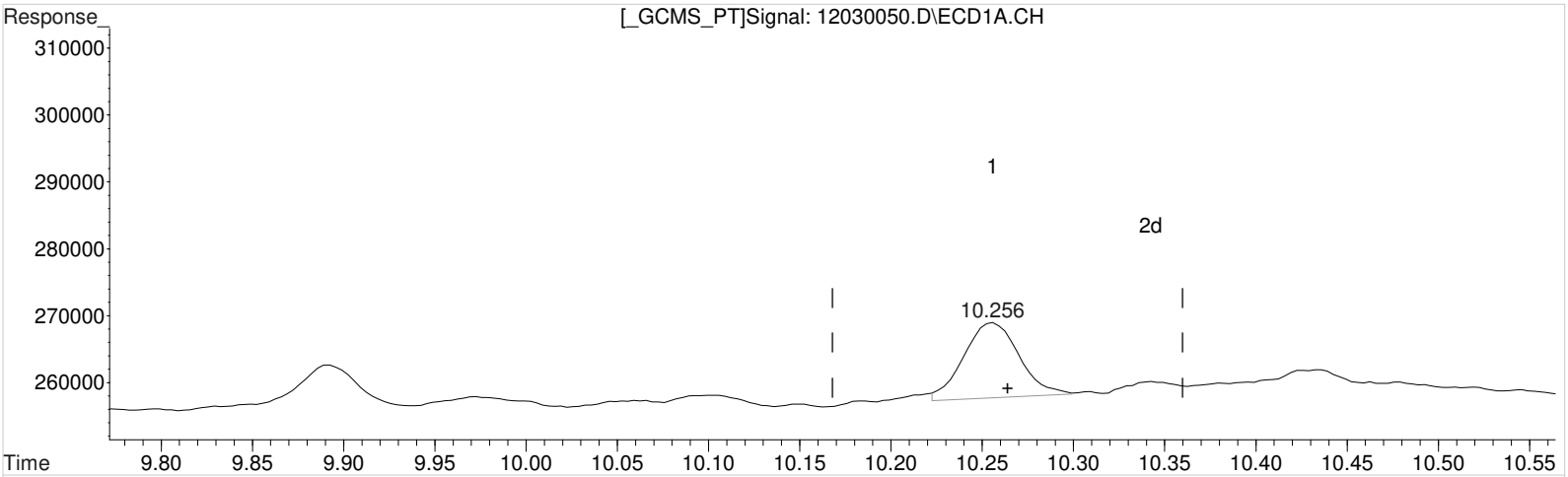
(+) = Expected Retention Time

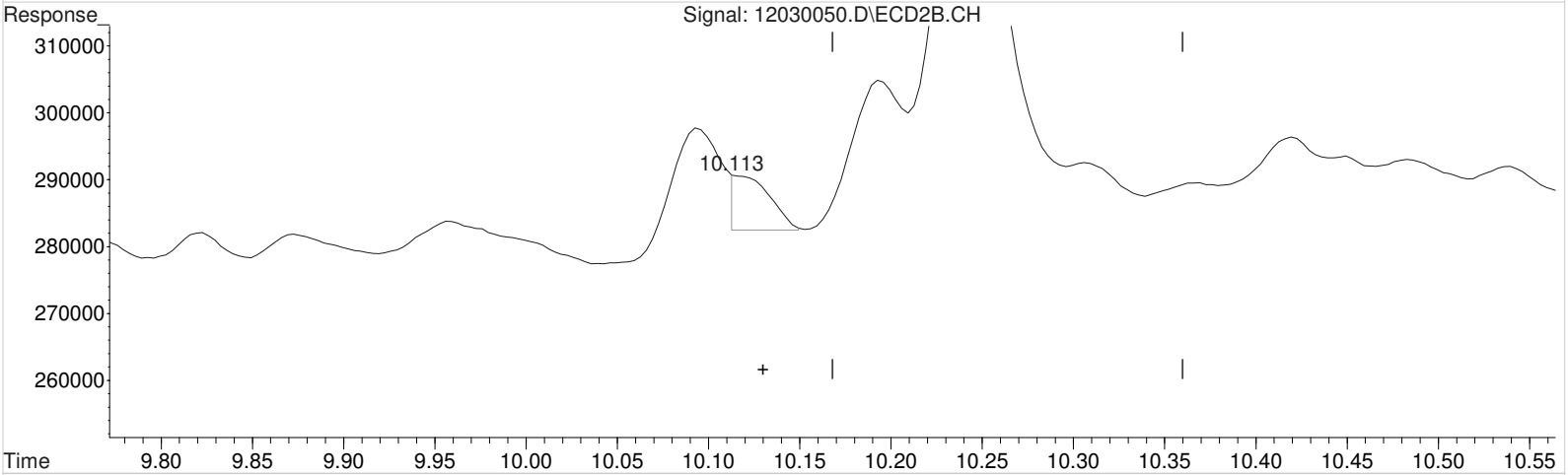
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030050.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:31 am Operator: UA
Sample : K2001727-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:13 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)

10.256min 0.254 ppb m

response 23832

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

10.113min 0.053 ppb m

response 10708

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030051.D\
Lab ID: K2010727-007
RunType: N/A
Matrix: Sediment

Date Acquired: 12/4/20 07:54:00
Batch ID: 705934
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	27		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	28		20	CCV+ND
	2,4-D	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030051.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 07:54:00	**Vial:**	22
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010727-007	**Raw Units:**	ppb

Bottle ID:	K2010727-007.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	K2010727
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82 -0.01	986178	2837810	54.196	67.091	54	67	54	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.12 -0.02	30227	16557	0.323	0.082 CCV	0.80U	0.20U	3.6 U	Y
2,4-D	9.34 +0.02	9.04 -0.03	3433	75997	0.162	1.484 CCV	0.40U	3.7U	12 U	Y

Prep Amount:	30.066 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	66.80

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

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

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

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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030051.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:54 am Operator: UA
Sample : K2001727-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:26:42 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 17:31:59 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...	7.990	7.824	986178	2837810	54.196m	67.091m
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.344	9.040	3433	75997	0.162	1.484 #
8)	m	2,4,5-TP ...	10.260	10.120	30227	16557	0.323	0.082 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

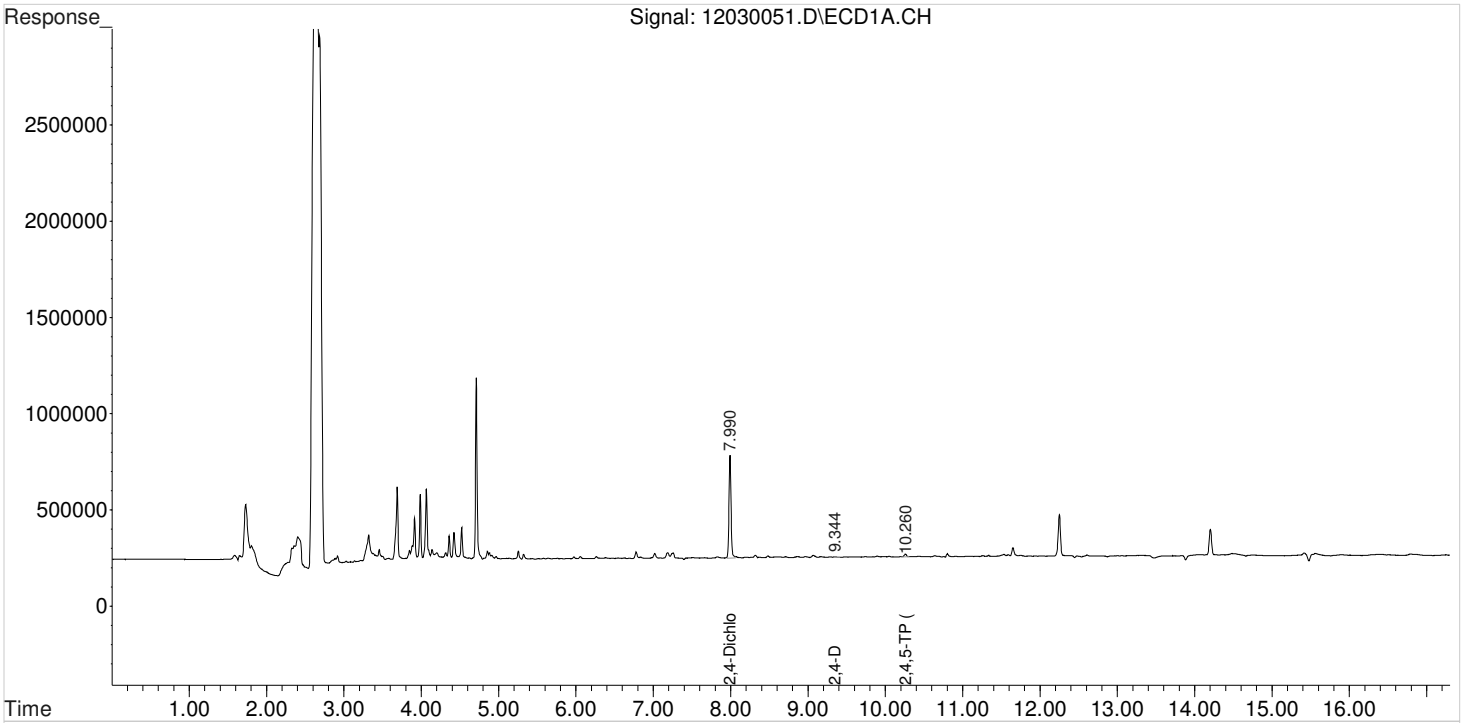
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

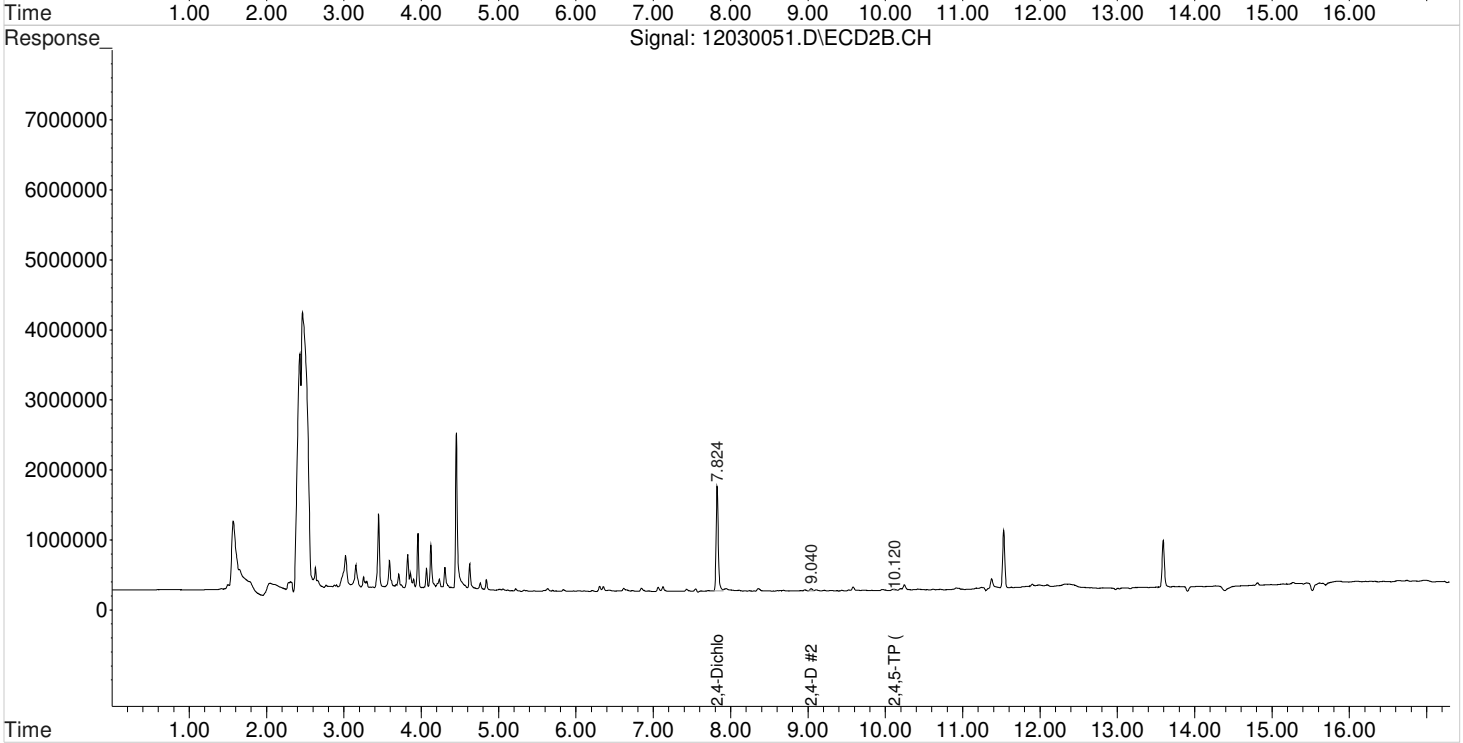
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030051.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:54 am Operator: UA
Sample : K2001727-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:26:42 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 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



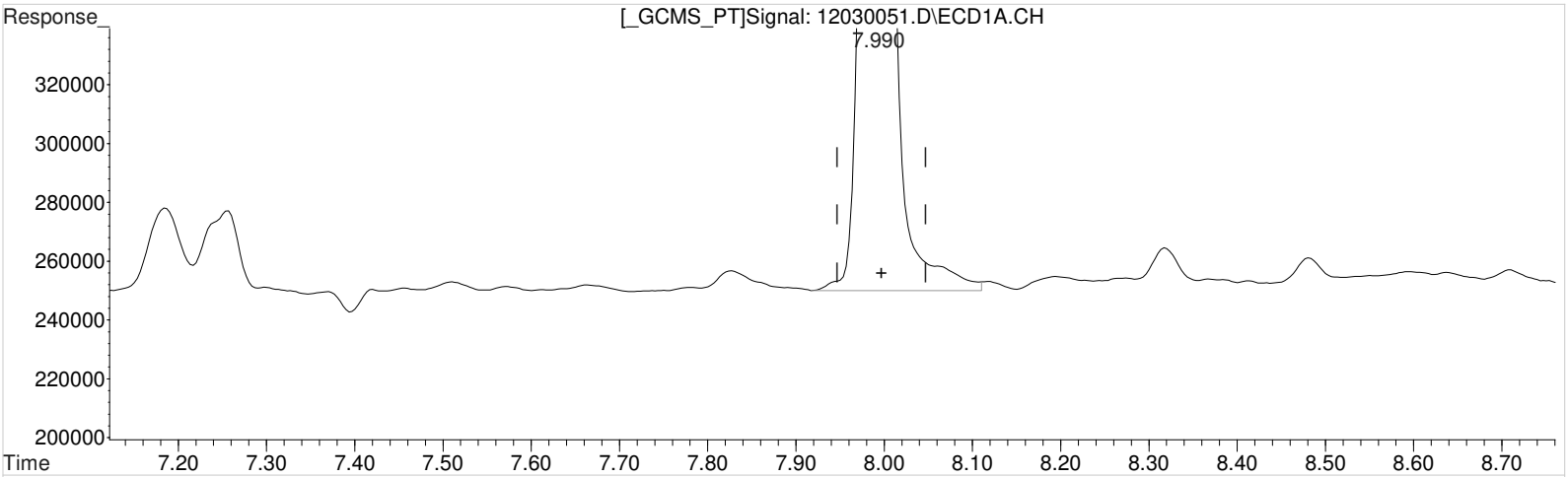


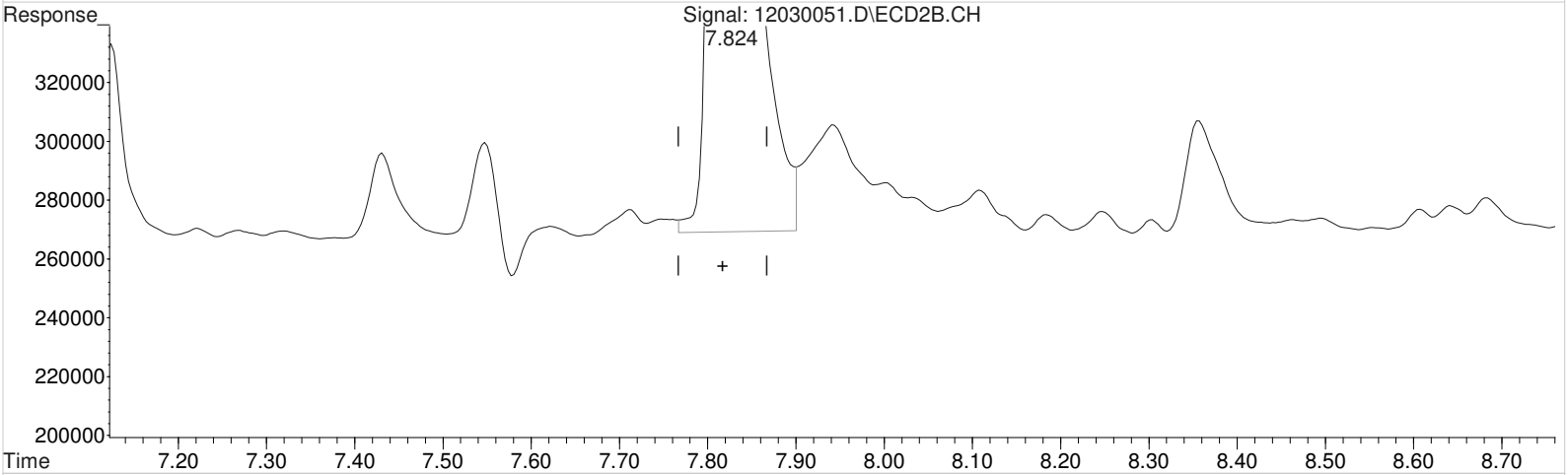
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030051.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:54 am Operator: UA
Sample : K2001727-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:16 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





QEdit

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

7.990min 55.396 ppb

response 1008028

Manual Integration:

Before

12/04/20

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

7.824min 67.896 ppb

response 2871838

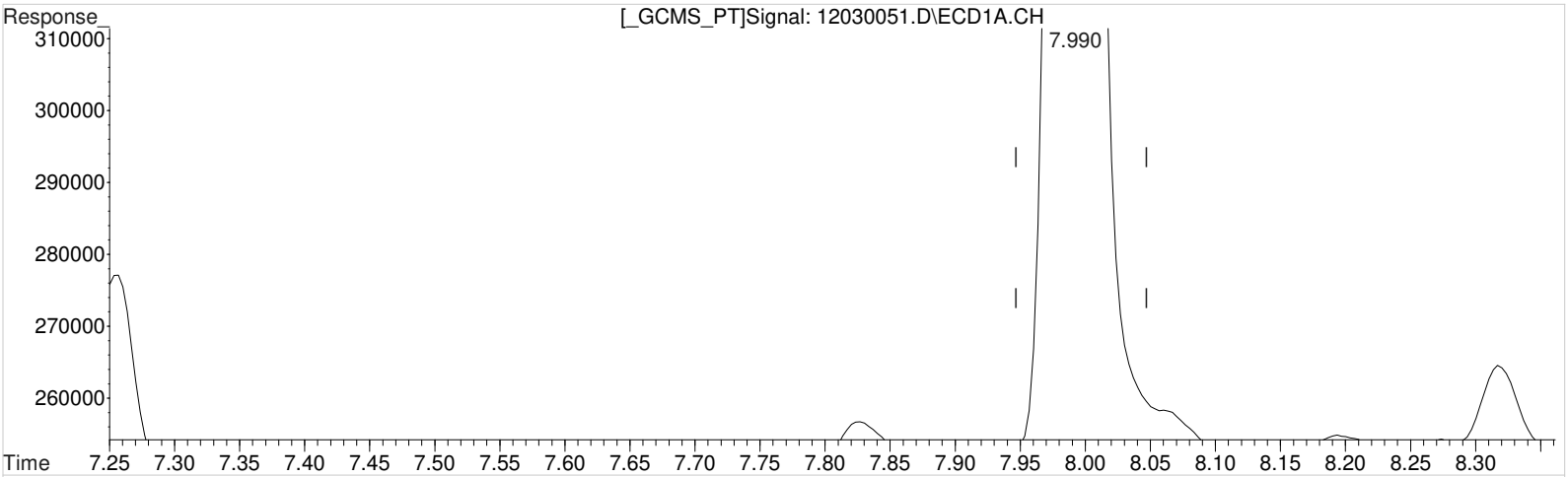
(+) = Expected Retention Time

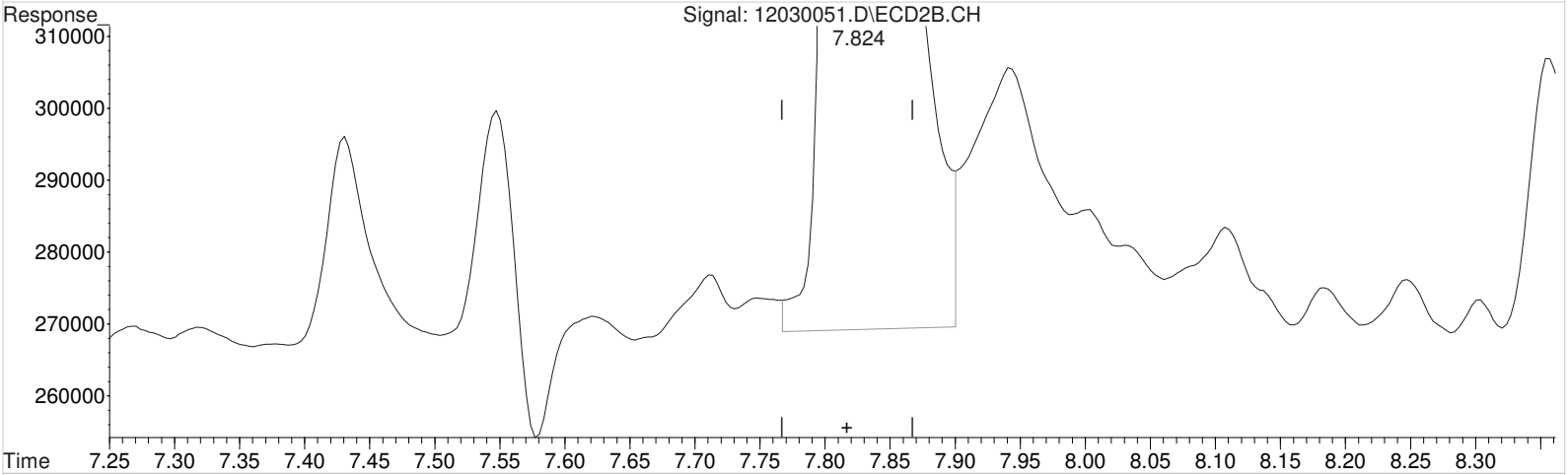
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030051.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:54 am Operator: UA
Sample : K2001727-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:16 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





QEdit

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

7.990min 54.196 ppb m

response 986178

Manual Integration:

Before

12/04/20

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

7.824min 67.896 ppb

response 2871838

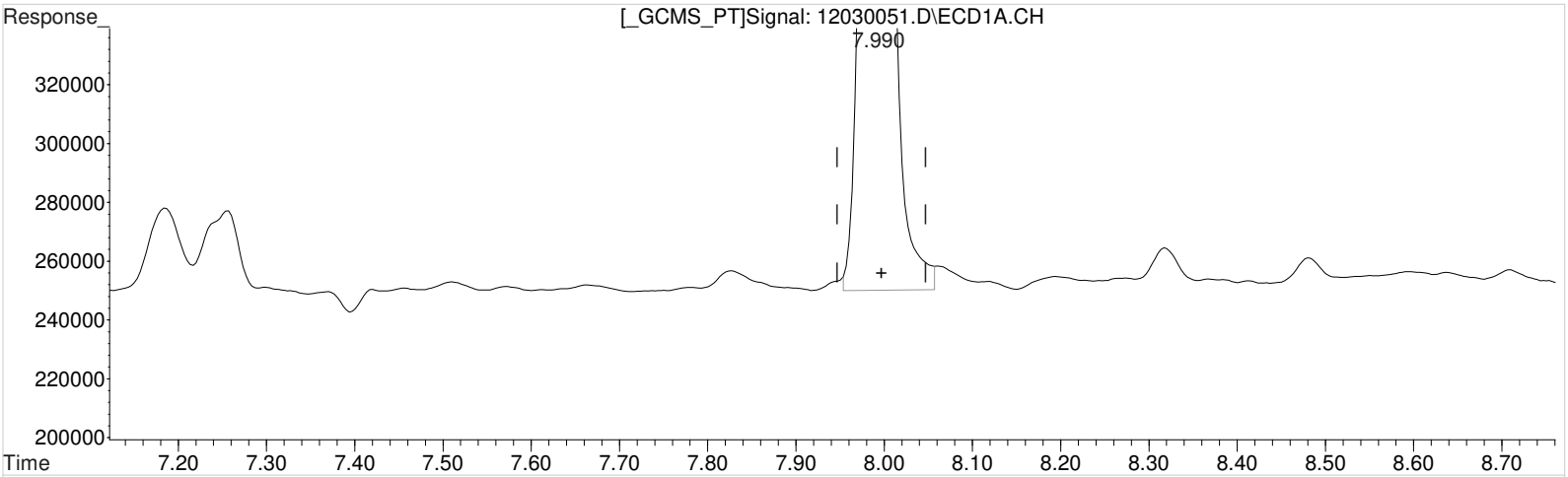
(+) = Expected Retention Time

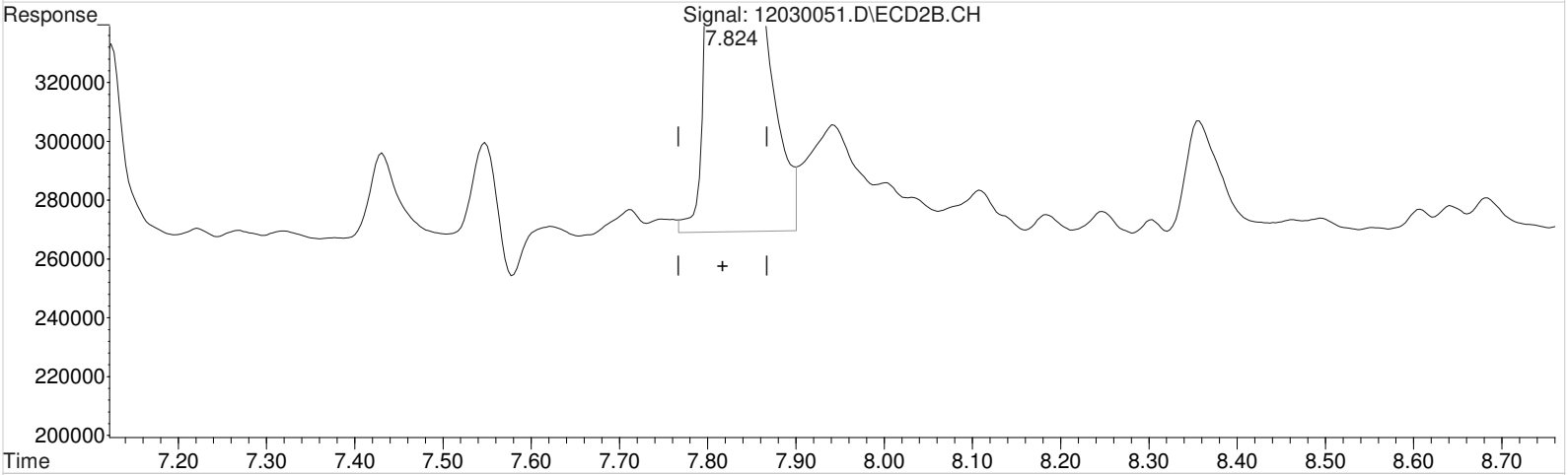
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030051.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:54 am Operator: UA
Sample : K2001727-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:16 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





QEdit

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

7.990min 54.196 ppb m

response 986178

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.824min 67.896 ppb

response 2871838

(+) = Expected Retention Time

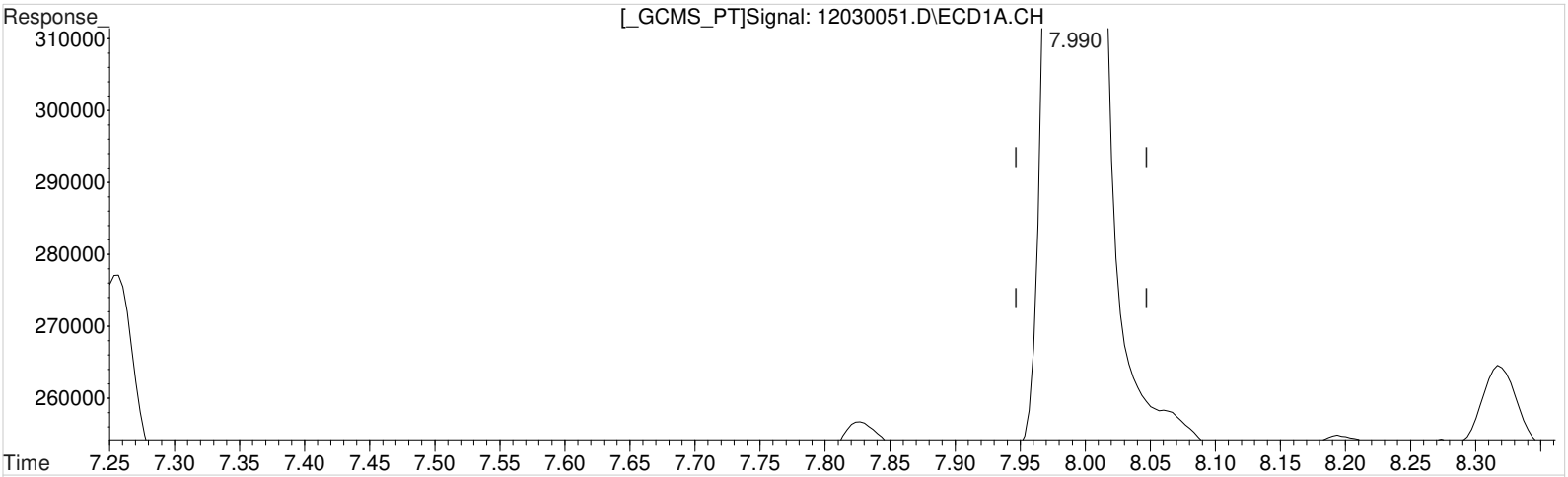
Quantitation Report (Qedit)

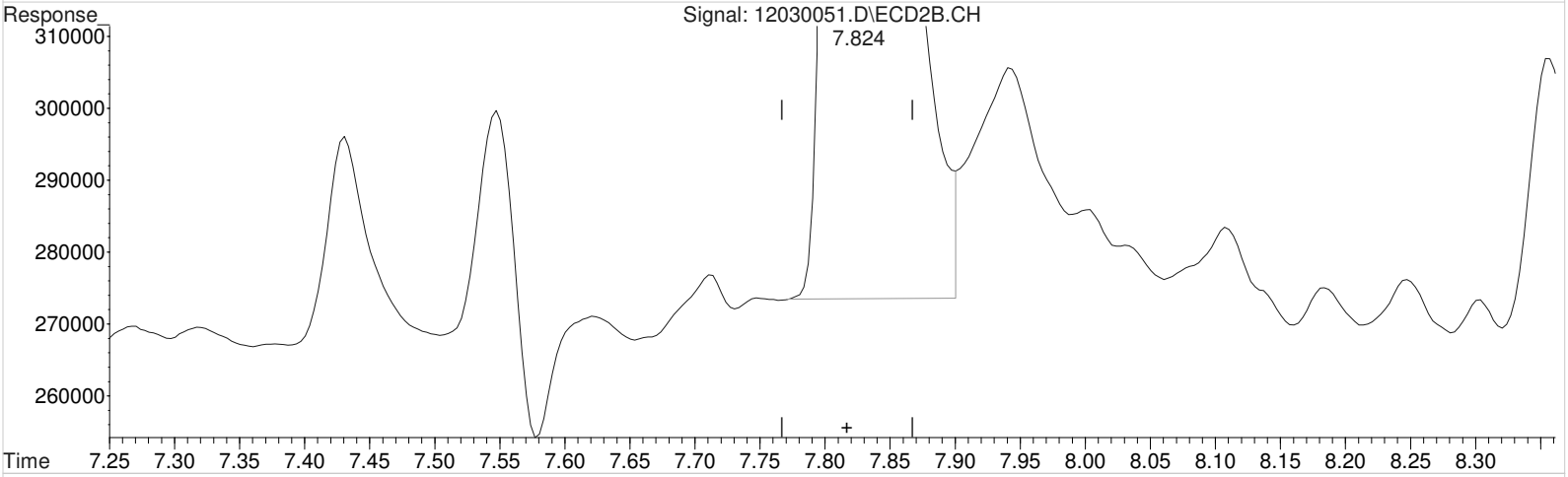
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030051.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 7:54 am Operator: UA
Sample : K2001727-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:16 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





QEdit

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

7.990min 54.196 ppb m

response 986178

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.824min 67.091 ppb m

response 2837810

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030054.D\
Lab ID: K2010727-008
RunType: N/A
Matrix: Sediment

Date Acquired: 12/4/20 09:03:00
Batch ID: 705934
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	28		20	CCV+ND
	2,4-D	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	25		20	CCV+ND
	2,4-D	24		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030054.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 09:03:00	**Vial:**	23
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010727-008	**Raw Units:**	ppb

Bottle ID:	K2010727-008.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	K2010727
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82 -0.01	1144151	3127074	62.877	73.930	63	74	63	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.10 -0.04	19323	77289	0.206	0.381 CCV	0.49U	0.91U	3.5 U	Y
2,4-D	9.35 +0.03	9.04 -0.03	3928	106046	0.185	2.071 CCV	0.44U	4.9U	11 U	Y

Prep Amount:	30.011 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	70.10

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

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

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

Printed: 12/8/20 17:31
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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030054.D Vial: 43
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 9:03 am Operator: UA
Sample : K2001727-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:50:11 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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.991	7.825	1144151	3127074	62.877m	73.930
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.351	9.041	3928	106046	0.185	2.071 #
8) m	2,4,5-TP ...	10.258	10.105	19323	77289	0.206	0.381 #
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

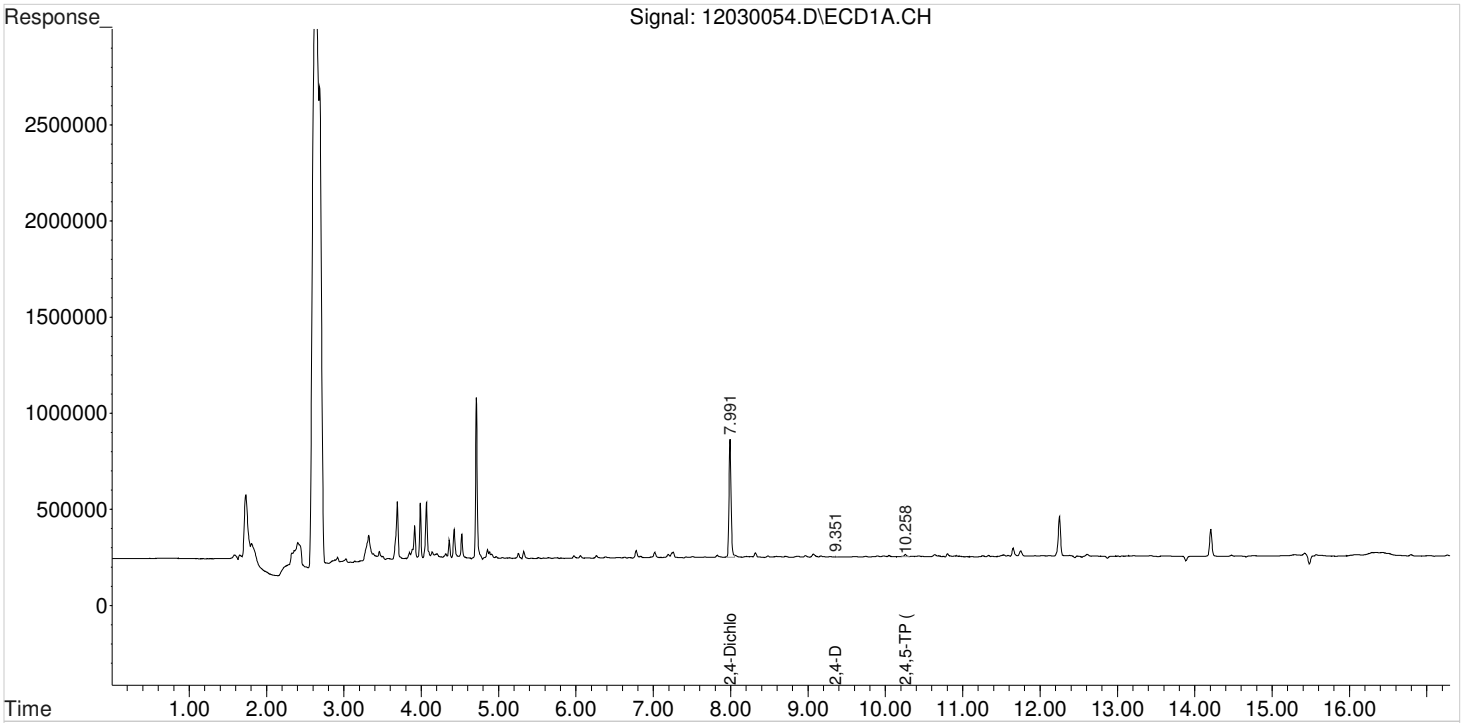
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

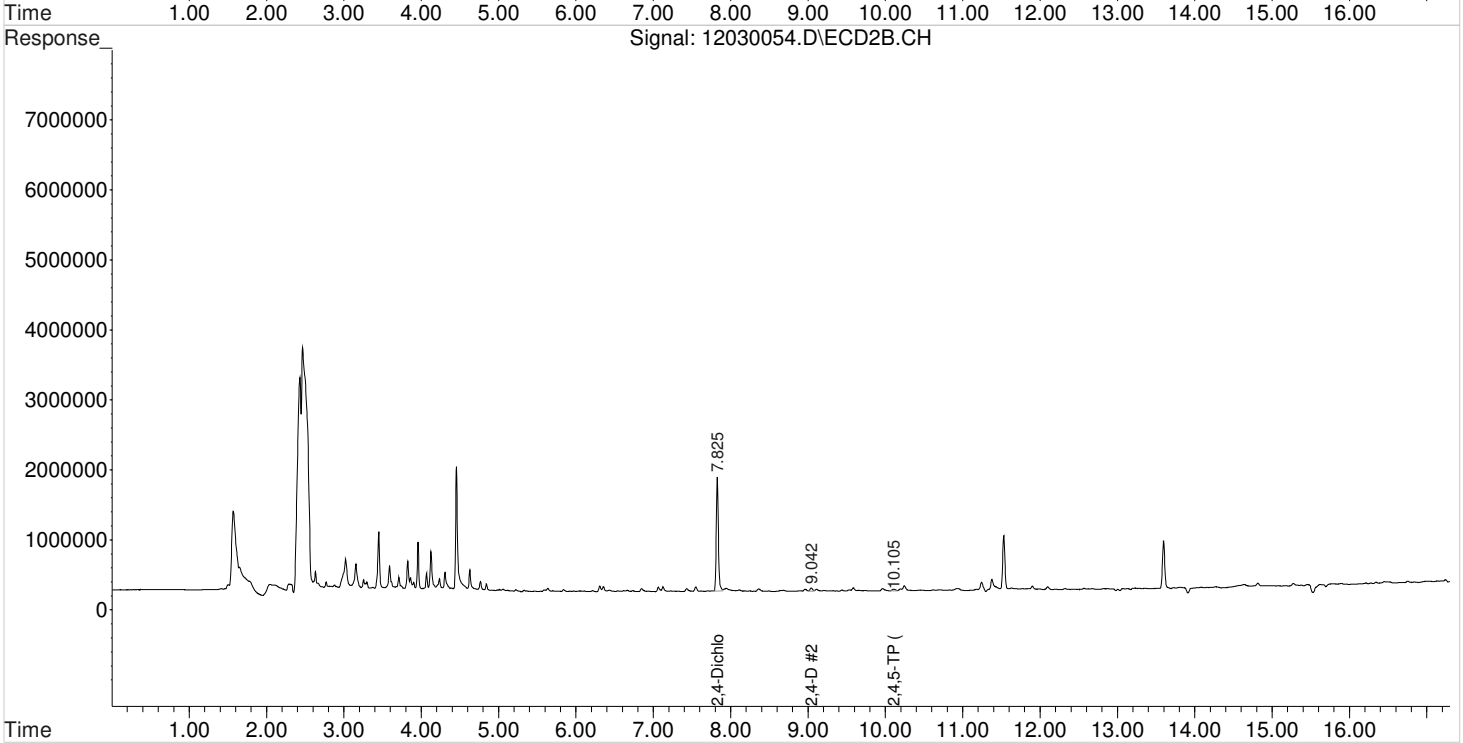
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030054.D Vial: 43
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 9:03 am Operator: UA
Sample : K2001727-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:50:11 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



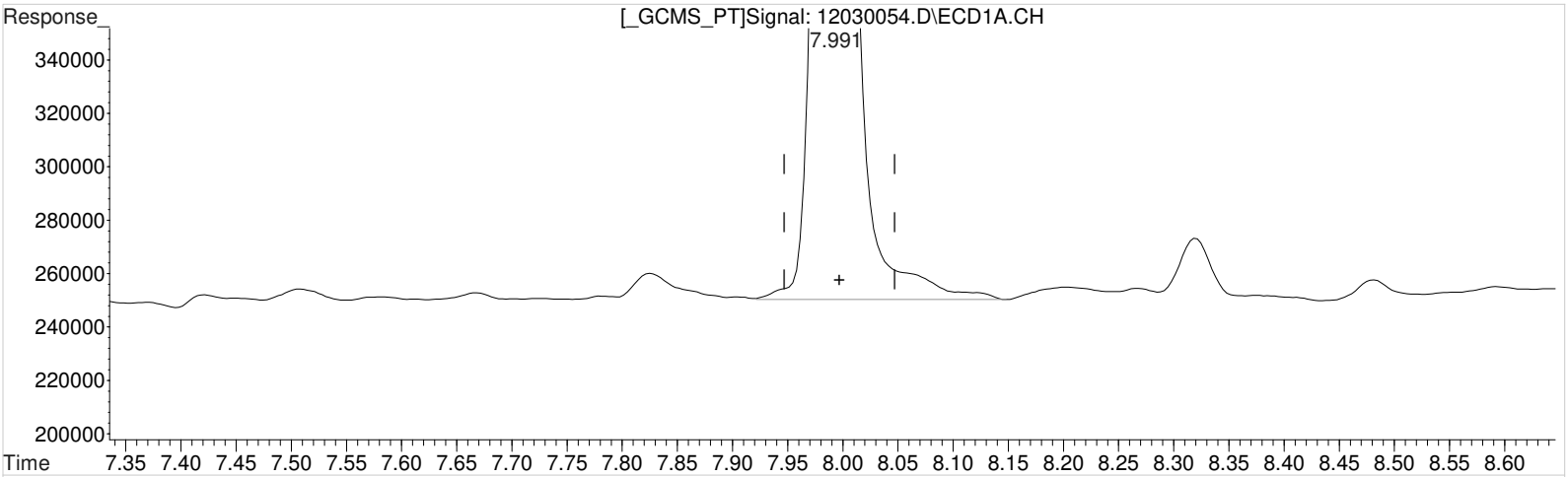


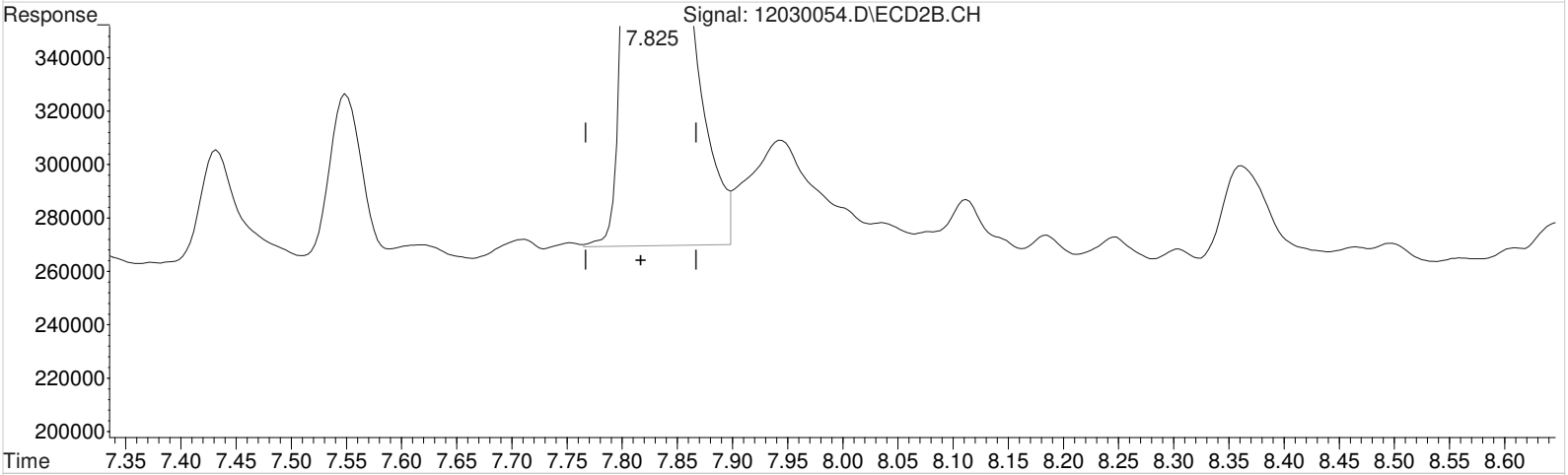
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030054.D Vial: 43
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 9:03 am Operator: UA
Sample : K2001727-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:25 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)

7.991min 64.530 ppb

response 1174228

Manual Integration:

Before

12/04/20

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

7.825min 73.930 ppb

response 3127074

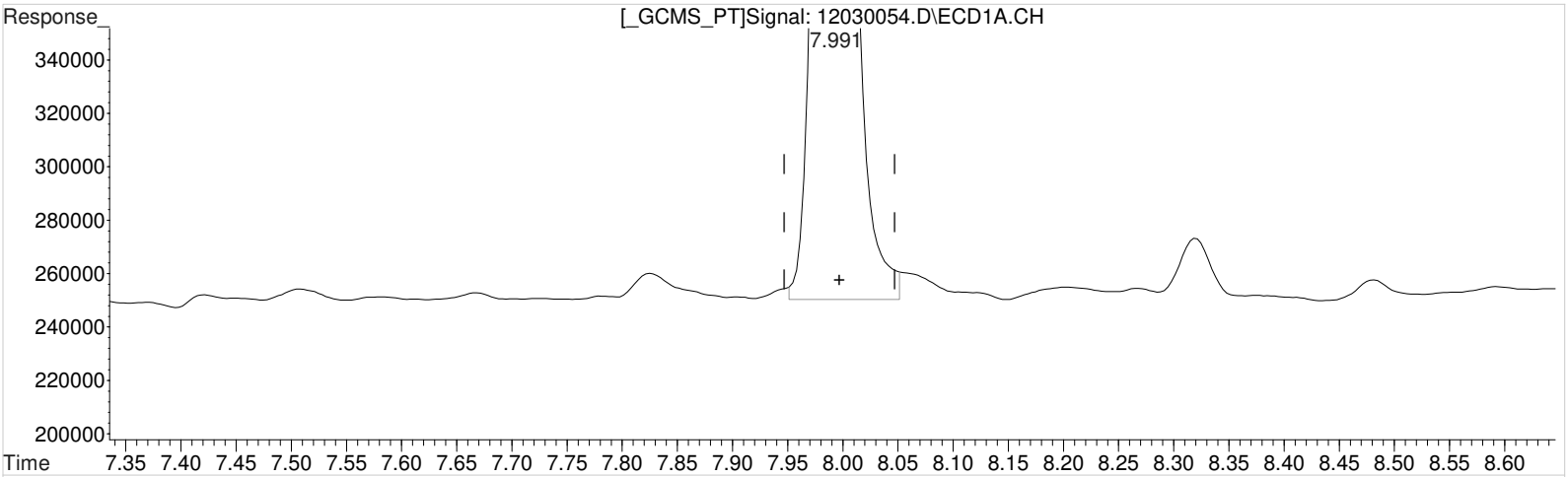
(+) = Expected Retention Time

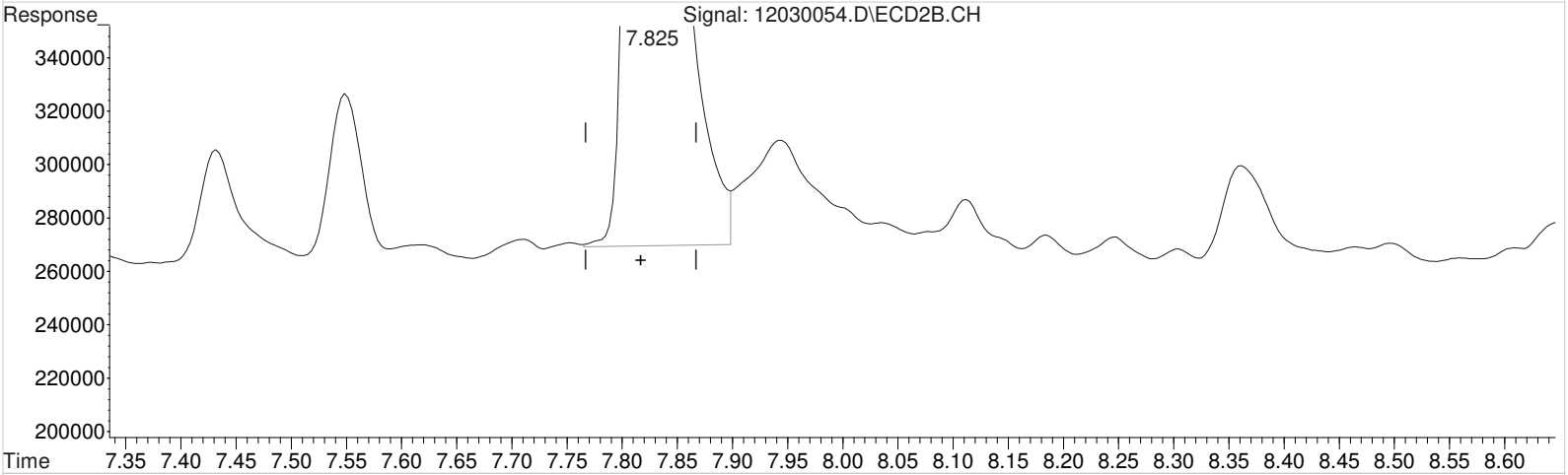
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030054.D Vial: 43
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 9:03 am Operator: UA
Sample : K2001727-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:25 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)

7.991min 62.877 ppb m

response 1144151

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.825min 73.930 ppb

response 3127074

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030055.D\
Lab ID: K2010727-009
RunType: N/A
Matrix: Sediment

Date Acquired: 12/4/20 09:26:00
Batch ID: 705934
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	28		20	CCV+ND
	2,4-D	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	25		20	CCV+ND
	2,4-D	24		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030055.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 09:26:00	**Vial:**	24
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010727-009	**Raw Units:**	ppb

Bottle ID:	K2010727-009.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	K2010727
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82 -0.01	1322665	3453550	72.687	81.648	73	82	73	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25 -0.01	10.10 -0.04	22535	539399	0.241	2.657 CCV	0.68U	7.5J	4.1 U	Y
2,4-D	9.33 +0.01	9.03 -0.04	14711	162321	0.693	3.170 CCV	2.0U	9.0U	14 U	Y

Prep Amount:	30.045 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	58.90

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

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

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

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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030055.D Vial: 44
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 9:26 am Operator: UA
Sample : K2001727-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:50:51 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...	7.988	7.824	1322665	3453550	72.687	81.648
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.334	9.034	14711	162321	0.693	3.170 #
8)	m	2,4,5-TP ...	10.254	10.098	22535	539399	0.241	2.657 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

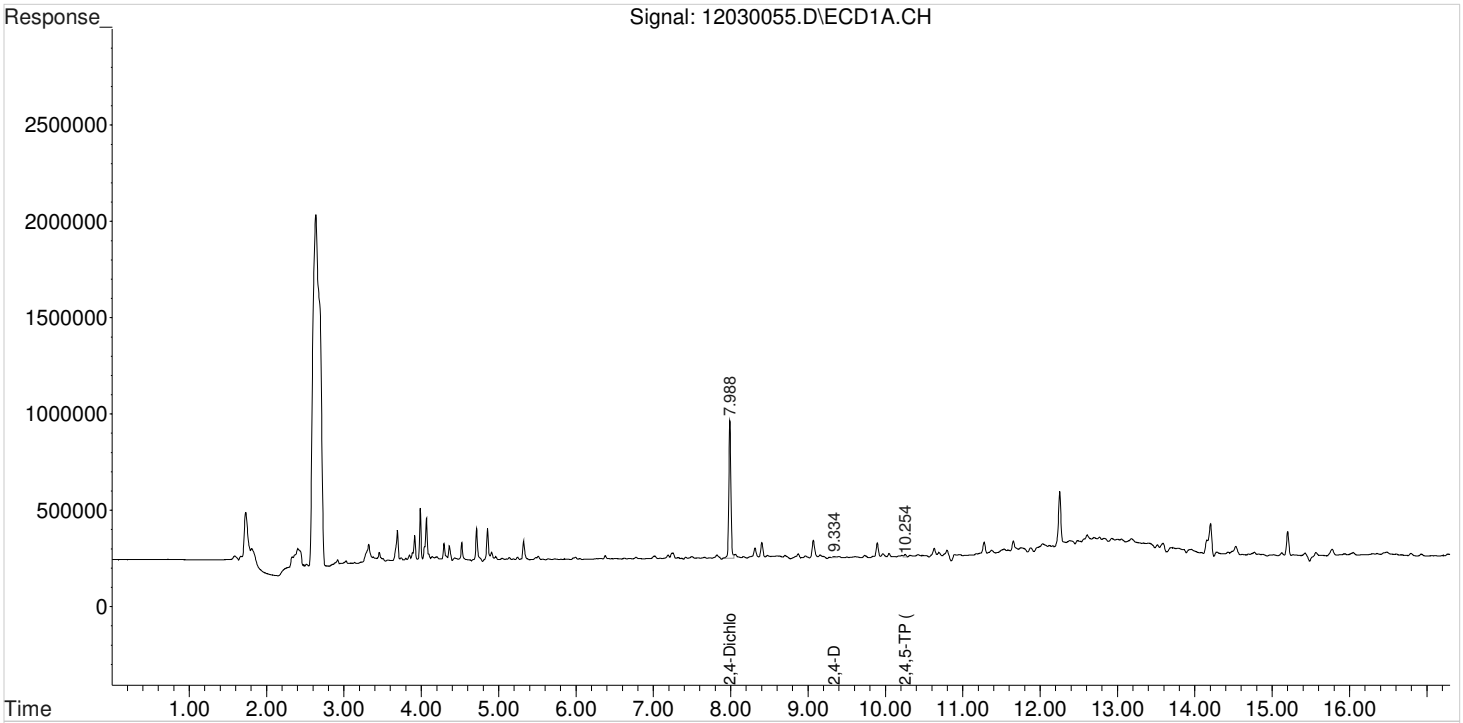
Quantitation Report (QT Reviewed)

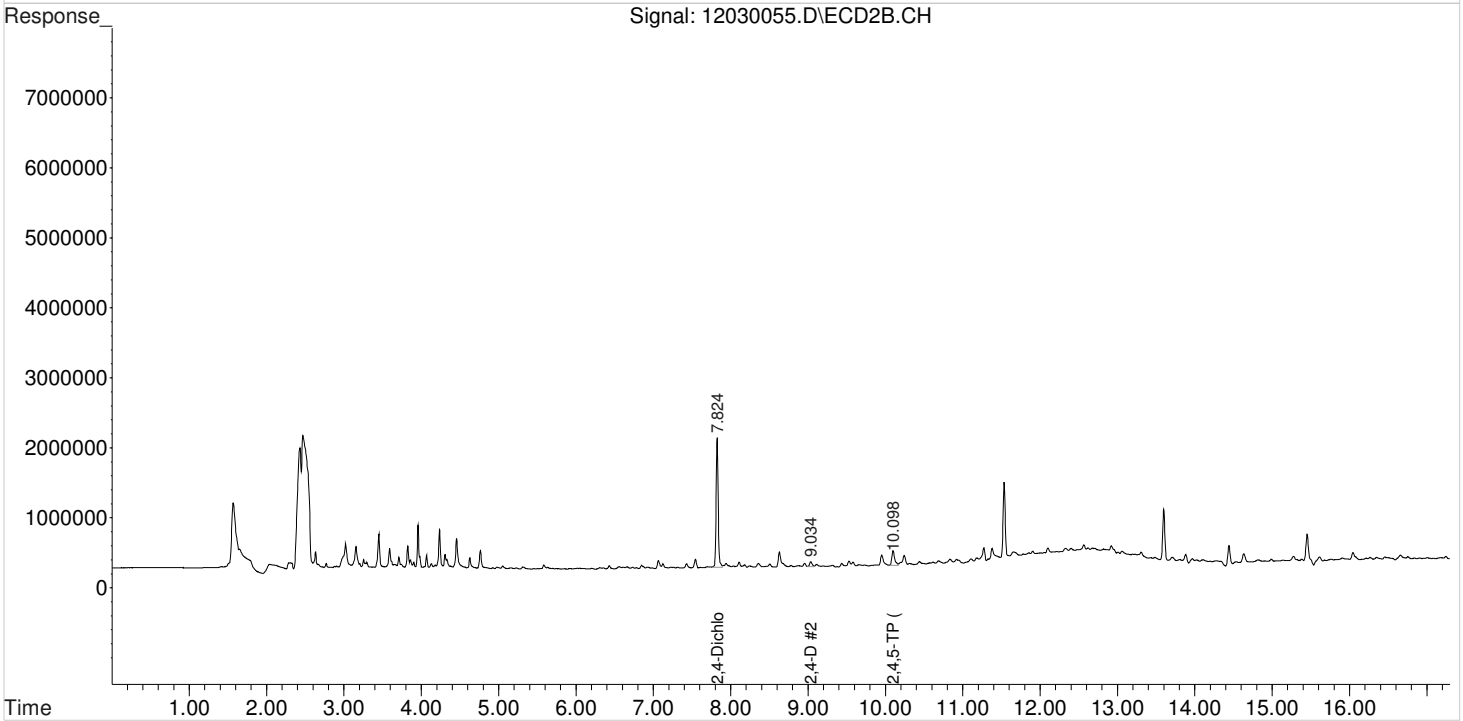
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030055.D Vial: 44
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 9:26 am Operator: UA
Sample : K2001727-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:50:51 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 STM 12/08/20
2nd UA 12/08/20

Validation Report

Data File: J:\gc24\data\120320\12030037.D\
Lab ID: KQ2018343-04
RunType: MB
Matrix: Sediment

Date Acquired: 12/4/20 02:34:00
Batch ID: 705934
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	Dinoseb	31		20	CCV+ND
	MCPP	23		20	
	2,4-D	27		20	
	2,4,5-T	27		20	
	MCPA	35		20	
	2,4,5-TP (Silvex)	31		20	

Primary Review: _____

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Secondary Review: _____

1st STM 12/08/20
2nd UA 12/08/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030037.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 02:34:00	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2018343-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	KQ2018343
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	7.99	7.82	1097878	2621113	60.334	61.968	60	62	60	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	10.70	10.55	3510	17483	0.043	0.091	0.071U	0.15U	4.0 U	Y
2,4,5-TP (Silvex)	10.26	10.13	33790	18212	0.361	0.090	0.59U	0.15U	2.4 U	Y
2,4-D	9.33	9.04	1257	122851	0.059	2.399	0.097U	3.9U	7.7 U	Y
2,4-DB	11.26	11.17	37250	62339	3.631	2.148	6.0J	3.5U	5.4 U	Y
Dalapon	3.14	2.88	10591	179159	0.437	3.708	0.72U	6.1J	5.5 U	Y
Dicamba	8.21	7.93	40650	64651	0.582	0.436	0.96U	0.72U	4.3 U	Y
Dichlorprop	8.96	8.78	32959	4119	1.767	0.099	2.9U	0.16U	3.4 U	Y
Dinoseb	11.65	11.33	99618	77318	1.610	0.565	2.6U	0.93U	2.7 U	Y
MCPA	8.64	0.00	2623	66375	44.797	0.000	74U	0U	320 U	Y
MCPP	8.32	0.00	5044	5177	617.319	0.000	1000J	0U	460 U	Y

Prep Amount:	30.4630 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	100.00

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

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

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

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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030037.D Vial: 30
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 2:34 am Operator: UA
Sample : KQ2018343-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:05:15 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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.990	7.823	1097878	2621113	60.334m	61.968	
	Target Compounds							
1) m	Dalapon	3.136	2.877	10591	179159	0.437	3.708	#
3) m	Dicamba	8.210	7.927	40650	64651	0.582	0.436	#
4) m	MCPP	8.316	8.103	5044	5177	617.319	N.D.	#
5) m	MCPA	8.640f	8.357	2623	66375	44.797	N.D.	#
6) m	Dichloroprop	8.963	8.777	32959	4119	1.767	0.099	#
7) m	2,4-D	9.333	9.043	1257	122851	0.059	2.399	#
8) m	2,4,5-TP ...	10.260	10.133	33790	18212	0.361	0.090	#
9) m	2,4,5-T	10.703	10.547	3510	17483	0.043	0.091	#
10) m	2,4-DB	11.263	11.173	37250	62339	3.631	2.148	#
11) m	Dinoseb	11.650	11.330	99618	77318	1.610	0.565	#

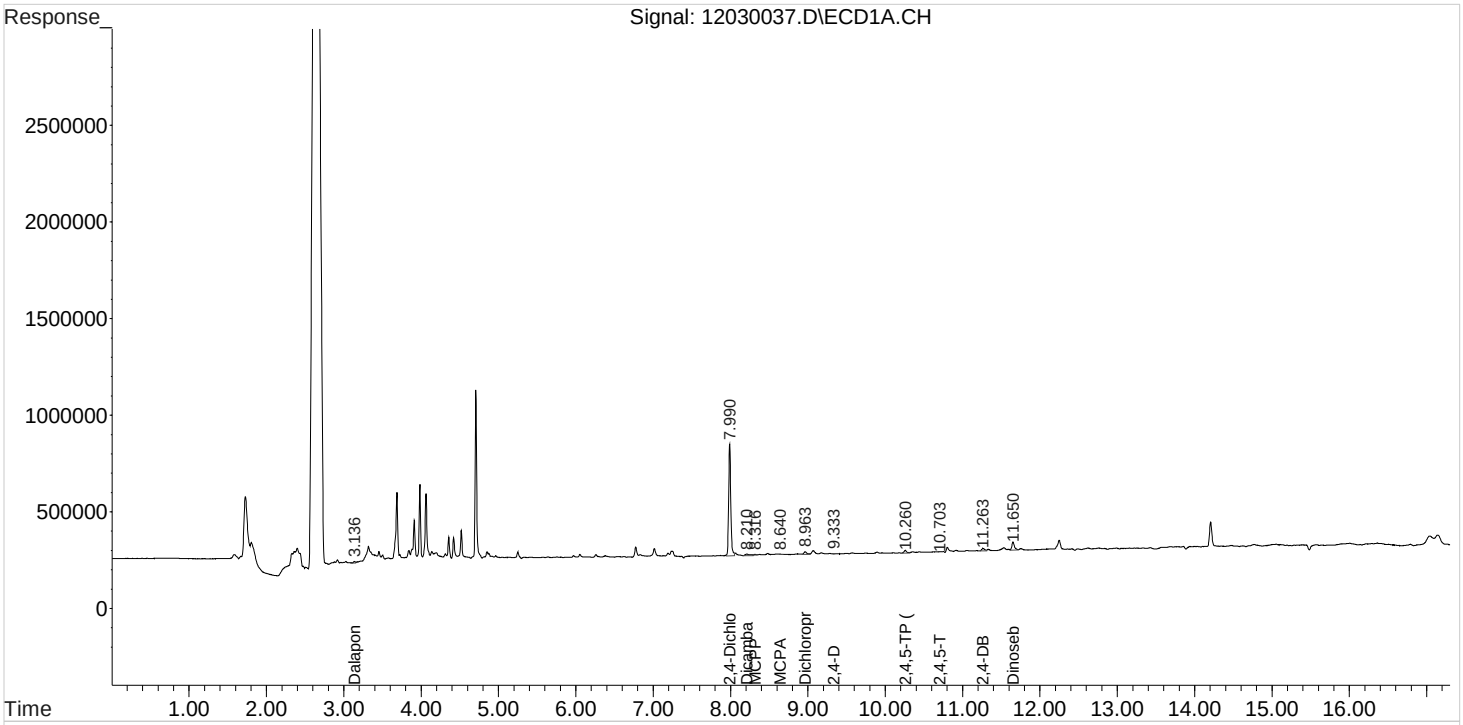
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

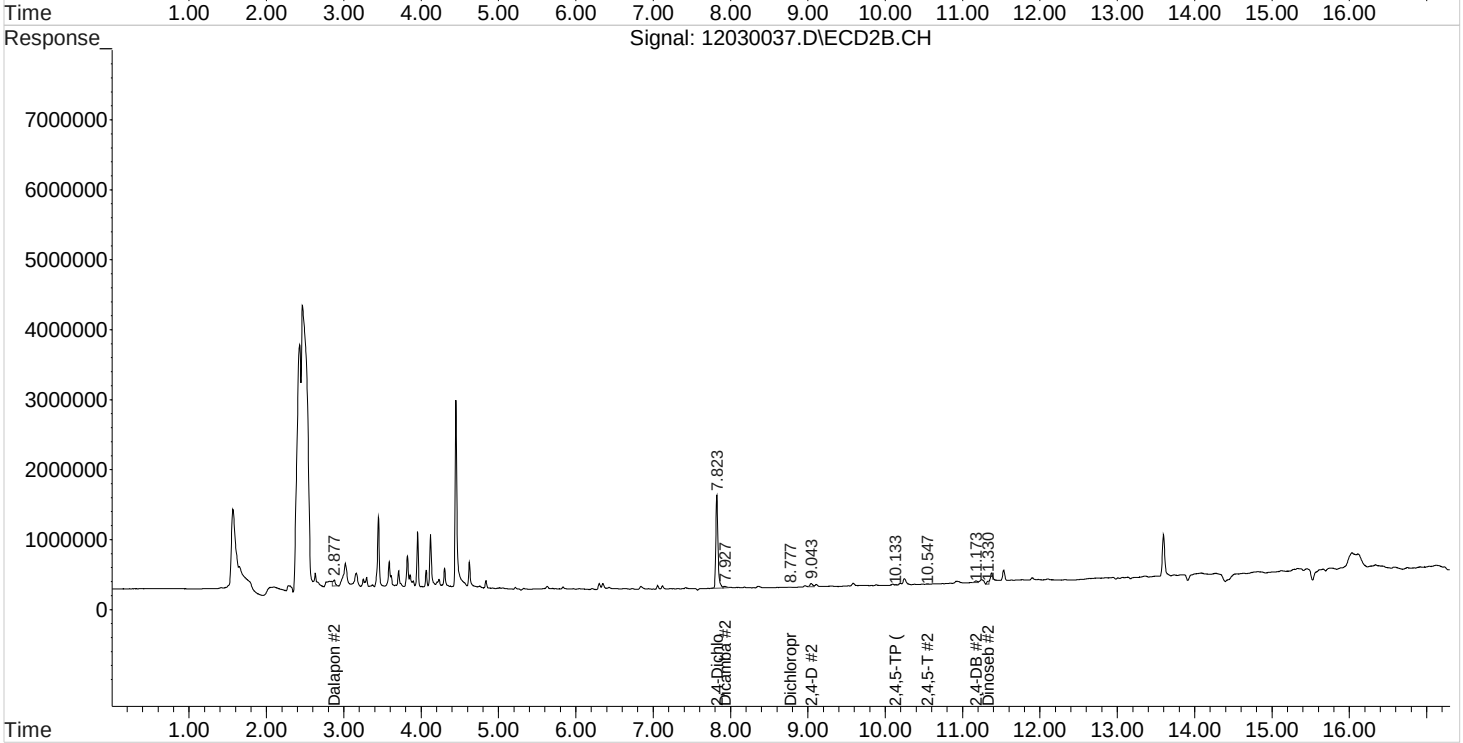
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030037.D Vial: 30
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 2:34 am Operator: UA
Sample : KQ2018343-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:05:15 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





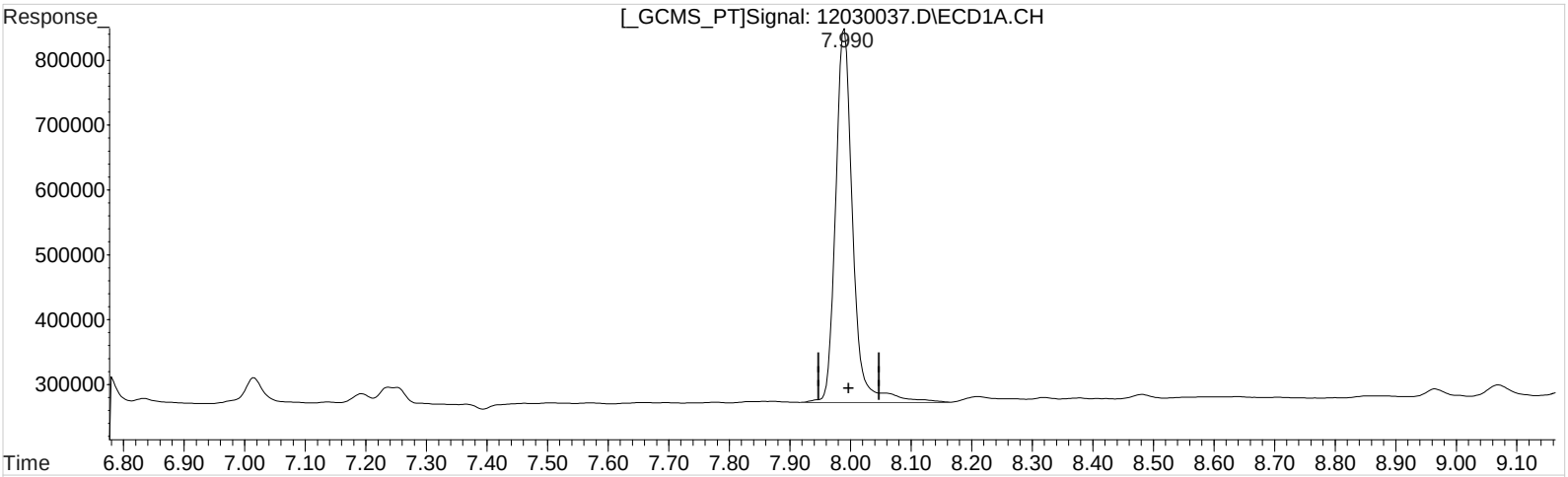
Quantitation Report (Qedit)

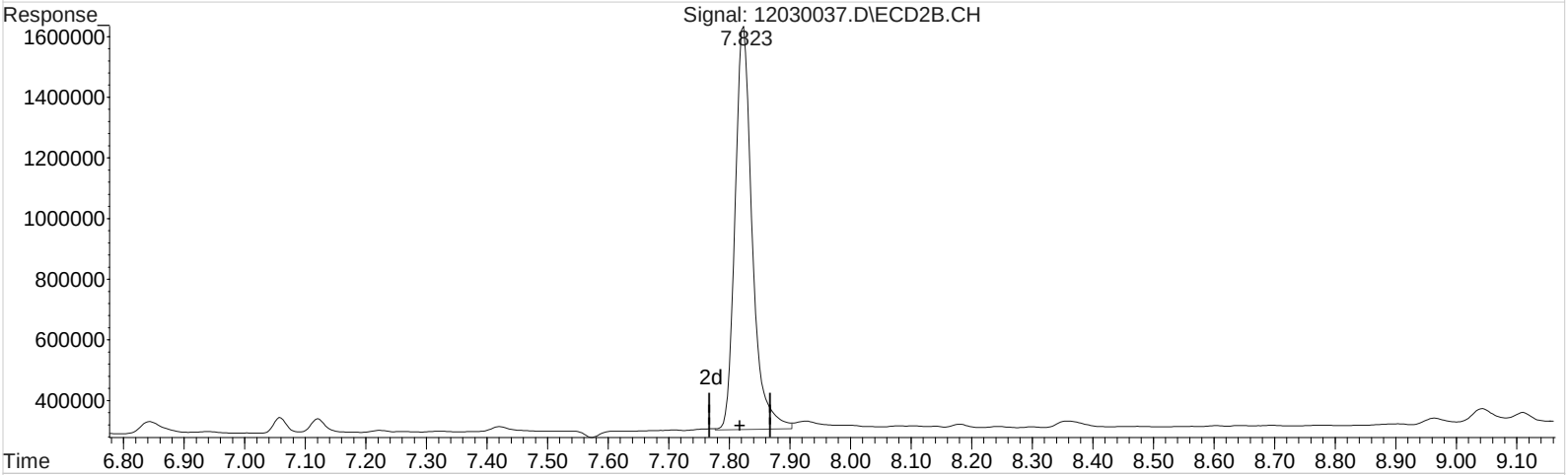
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030037.D Vial: 30
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 2:34 am Operator: UA
Sample : KQ2018343-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:04:59 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





QEdit

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

7.990min 62.706 ppb

response 1141033

Manual Integration:

Before

12/04/20

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

7.823min 61.968 ppb

response 2621113

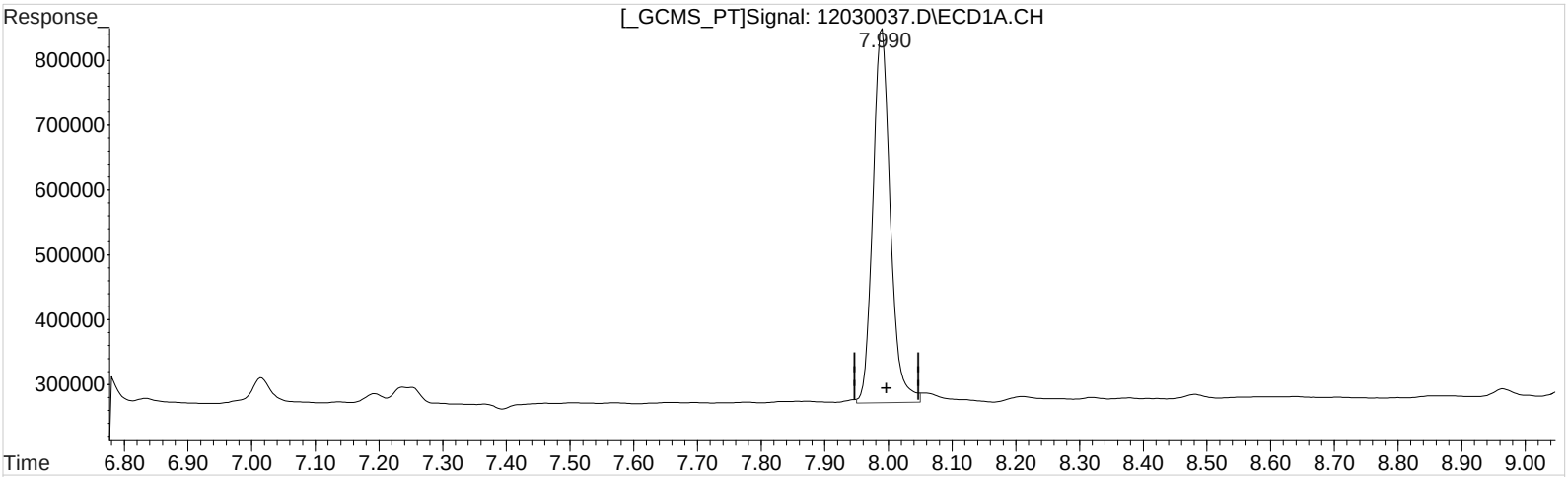
(+) = Expected Retention Time

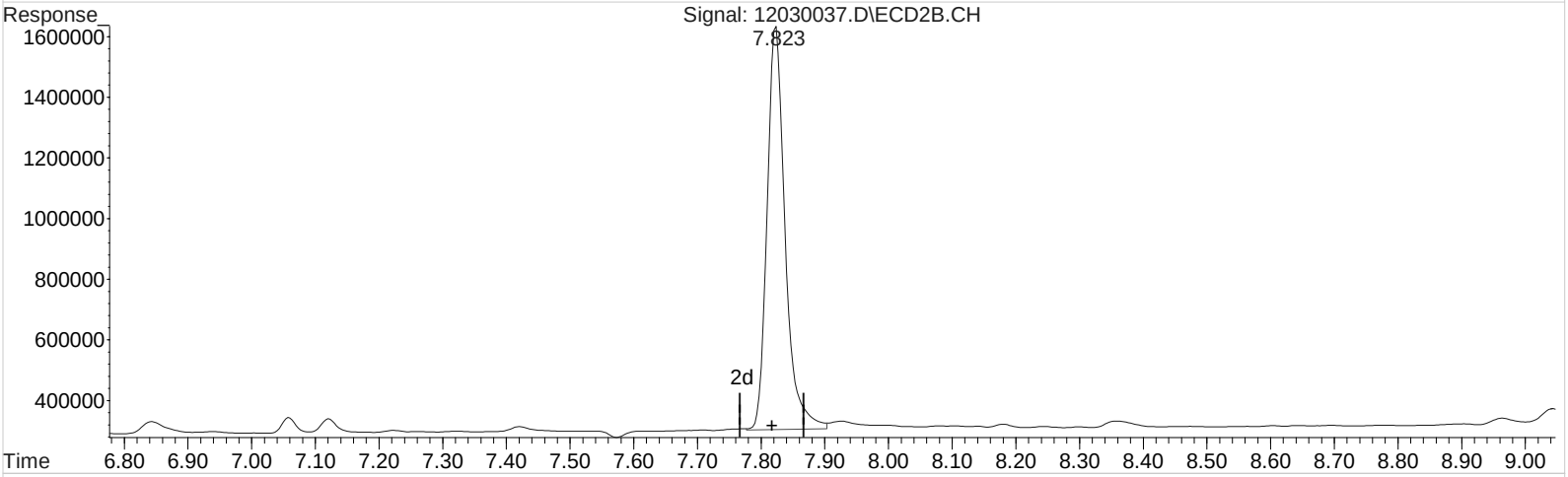
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030037.D Vial: 30
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 2:34 am Operator: UA
Sample : KQ2018343-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:04:59 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





QEdit

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

7.990min 60.334 ppb m

response 1097878

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.823min 61.968 ppb

response 2621113

(+) = Expected Retention Time

1st STM 12/08/20
2nd UA 12/08/20

Validation Report

Data File: J:\gc24\data\120320\12030038.D\
Lab ID: KQ2018343-03
RunType: LCS
Matrix: Sediment

Date Acquired: 12/4/20 02:57:00
Batch ID: 705934
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	Dinoseb	31		20	CCV+ND
	MCPP	23		20	
	2,4-D	27		20	
	2,4,5-T	27		20	
	MCPA	35		20	
	2,4,5-TP (Silvex)	31		20	

Primary Review: _____

Secondary Review: _____

1st STM 12/08/20
2nd UA 12/08/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030038.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 02:57:00	**Vial:**	2
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2018343-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	KQ2018343
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	8.00	7.83	1250451	3103256	68.719	73.367	69	73	69	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	10.71	10.55	5264699	15540558	63.807	81.208	106	135	**106**	Y
2,4,5-TP (Silvex)	10.26	10.15	6297695	16351009	67.225	80.548	112	134	**112**	Y
2,4-D	9.32	9.08	1388748	4022804	65.383	78.573	109	131	**109**	Y
2,4-DB	11.29	11.18	596007	1842722	58.094	63.507	96.8	106	**96.8**	Y
Dalapon	3.12	2.88	929372	2360462	38.311	48.858	63.9	81.4	**63.9**	Y
Dicamba	8.22	7.93	4569986	10576231	65.473	71.358	109	119	**109**	Y
Dichlorprop	8.97	8.77	1218303	2980418	65.332	71.447	109	119	**109**	Y
Dinoseb	11.69	11.33	3705398	9490981	59.894	69.400	99.8	116	**99.8**	Y
MCPA	8.57	8.37	423042	1950790	7225.000	8431.588	12000	14100	**12000**	Y
MCPP	8.30	8.12	330413	1415456	7618.991	8364.006	12700	13900	**12700**	Y

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

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

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

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

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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030038.D Vial: 31
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 2:57 am Operator: UA
Sample : KQ2018343-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:06:01 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...	7.998	7.831	1250451	3103256	68.719	73.367
	Target Compounds						
1) m	Dalapon	3.124	2.878	929372	2360462	38.311m	48.858m#
3) m	Dicamba	8.218	7.935	4569986	10576231	65.473	71.358
4) m	MCPP	8.304	8.121	330413	1415456	7618.991	8364.006
5) m	MCPA	8.568	8.368	423042	1950790	7225.000	8431.588
6) m	Dichloroprop	8.971	8.768	1218303	2980418	65.332	71.447
7) m	2,4-D	9.324	9.078	1388748	4022804	65.383	78.573
8) m	2,4,5-TP ...	10.264	10.148	6297695	16351009	67.225	80.548
9) m	2,4,5-T	10.711	10.551	5264699	15540558	63.807	81.208 #
10) m	2,4-DB	11.291	11.185	596007	1842722	58.094	63.507
11) m	Dinoseb	11.688	11.335	3705398	9490981	59.894	69.400

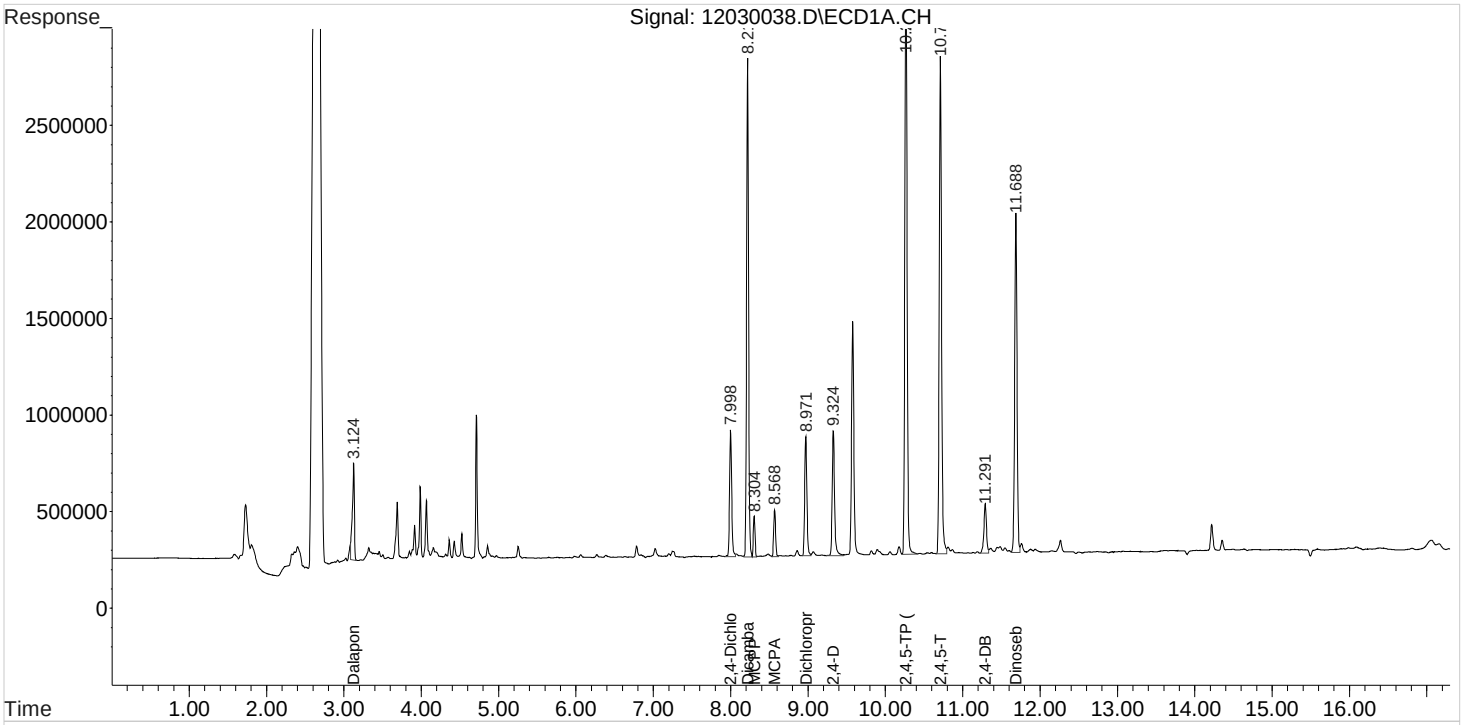
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

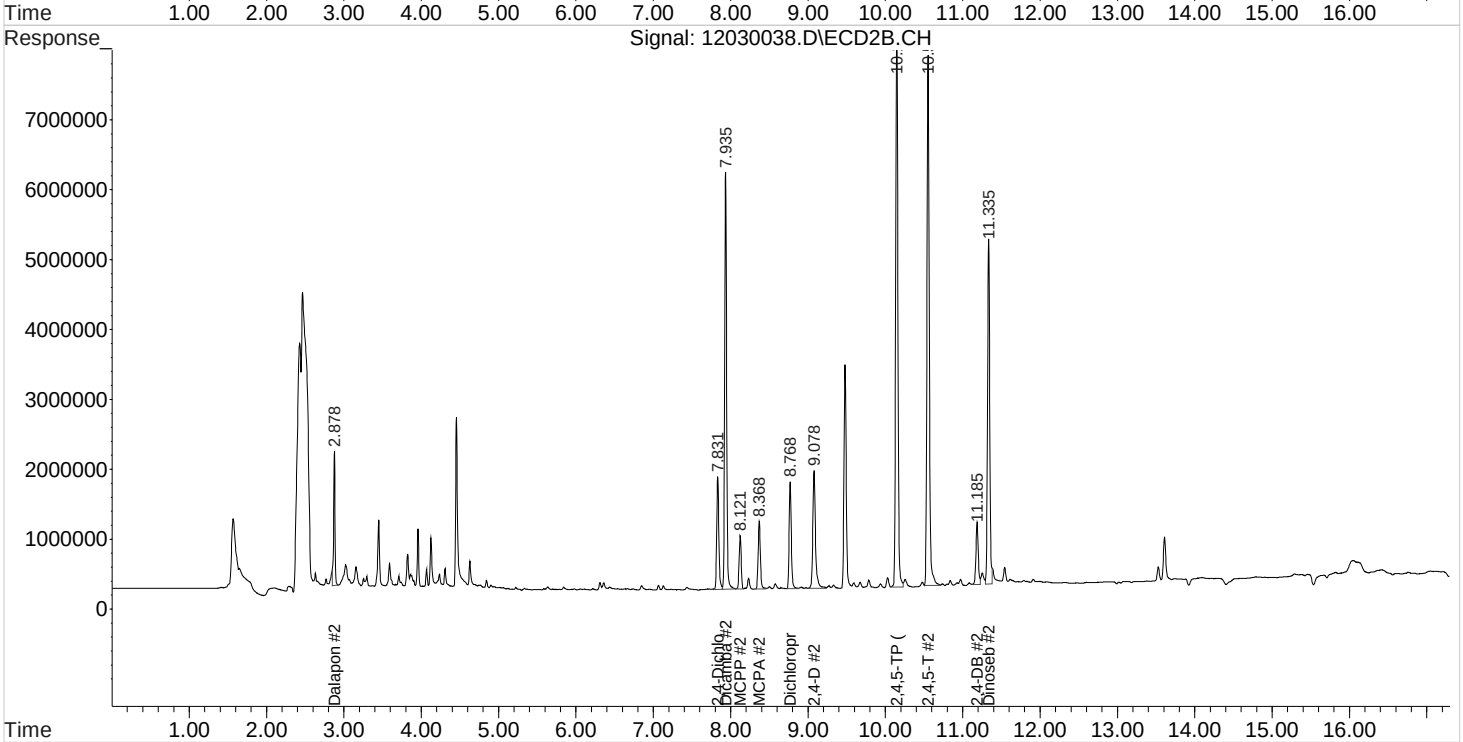
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030038.D Vial: 31
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 2:57 am Operator: UA
Sample : KQ2018343-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:06:01 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



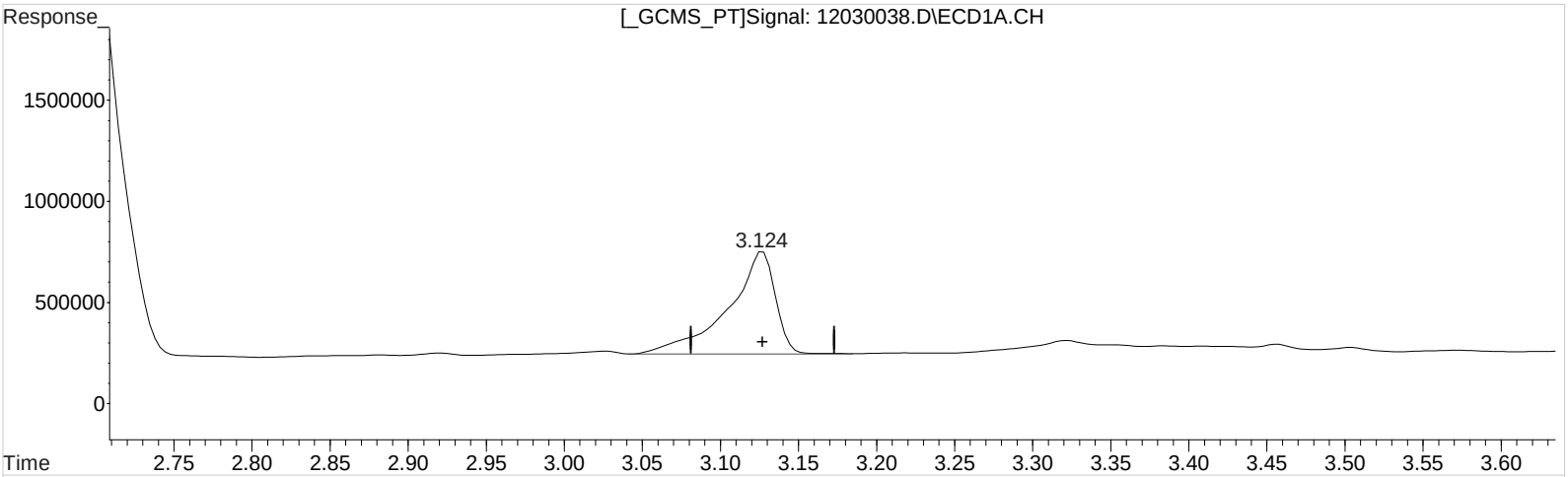


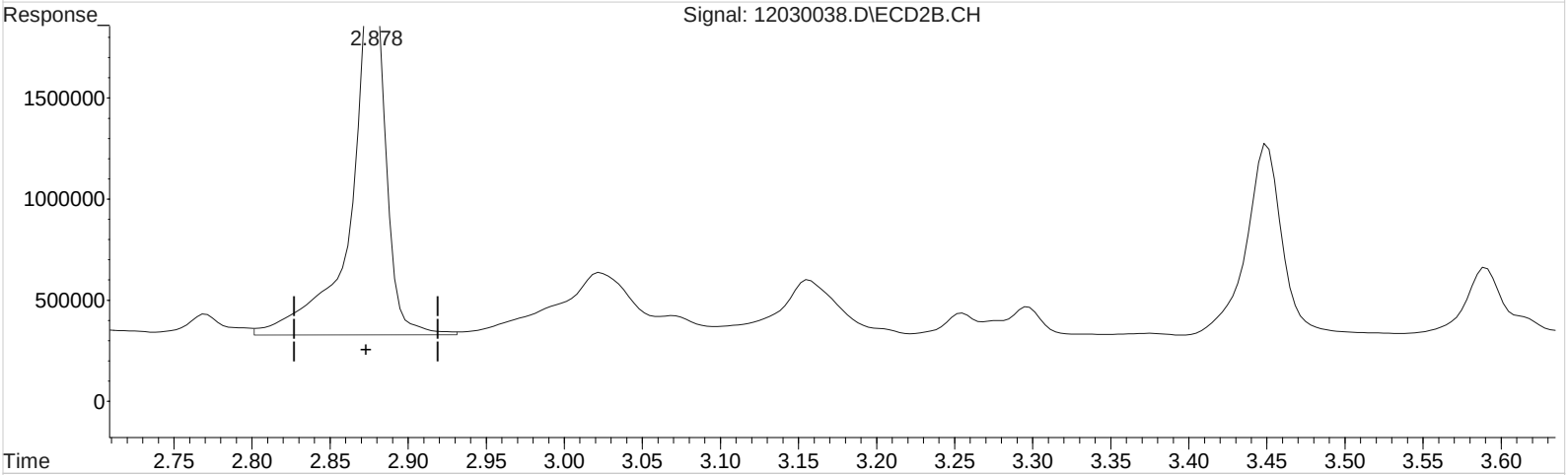
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030038.D Vial: 31
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 2:57 am Operator: UA
Sample : KQ2018343-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:05:36 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





QEdit

(1) Dalapon (m)

3.124min 44.009 ppb

response 1067599

(1) Dalapon #2 (m)

2.878min 57.668 ppb

response 2786094

Manual Integration:

Before

12/04/20

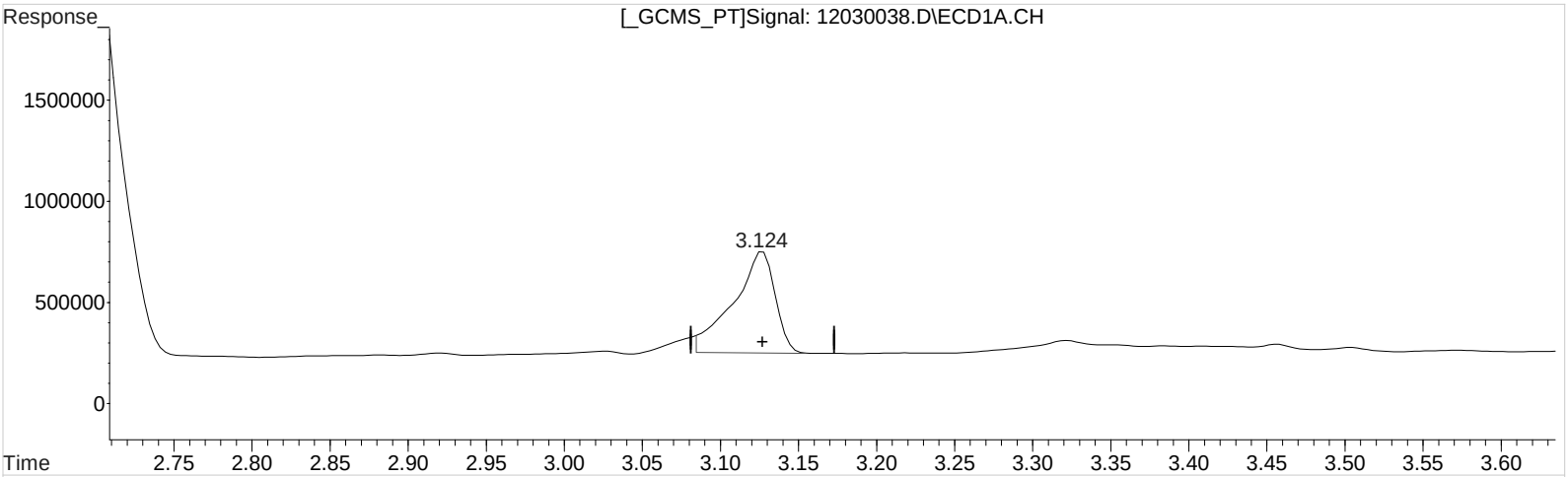
(+) = Expected Retention Time

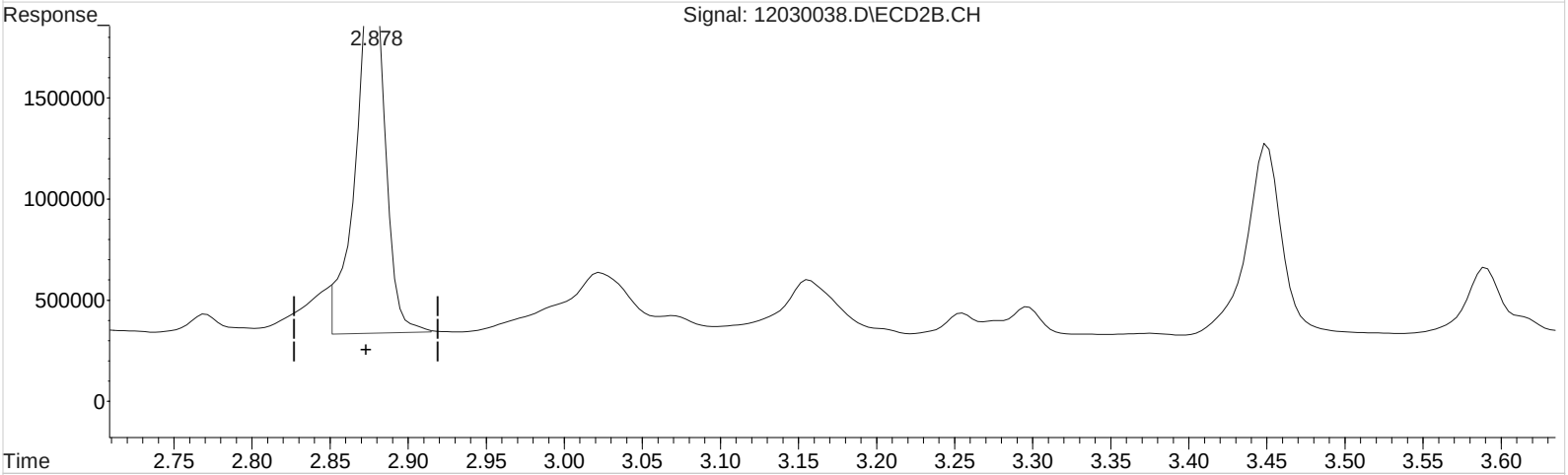
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030038.D Vial: 31
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 2:57 am Operator: UA
Sample : KQ2018343-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:05:36 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





QEdit

(1) Dalapon (m)

3.124min 38.311 ppb m

response 929372

Manual Integration:

After

Baseline/Shoulder

12/04/20

(1) Dalapon #2 (m)

2.878min 48.858 ppb m

response 2360462

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030059.D\
Lab ID: KQ2018343-01
RunType: MS
Matrix: Sediment

Date Acquired: 12/4/20 10:57:00
Batch ID: 705934
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	28		20	samples ND
	2,4-D	21		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	25		20	
	2,4-D	24		20	

Primary Review: _____

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Secondary Review: _____

1st UA 12/07/20
2nd SM 12/08/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030059.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 10:57:00	**Vial:**	4
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ2018343-01	**Raw Units:**	ppb

Bottle ID:	K2010727-001.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	KQ2018343
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

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 -0.01	7.82 -0.01	1158567	3357854	63.669	79.386	64	79	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	10.25 -0.01	10.13 -0.01	5779050	17652021	61.688	86.957 CCV	175	247	**175**	Y
2,4-D	9.31 -0.01	9.06 -0.01	1331735	4097371	62.699	80.029 CCV	178	227	**178**	Y

Prep Amount:	30.040 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	58.70

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

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

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

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1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030059.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 10:57:00	**Vial:**	2
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ2018343-01	**Raw Units:**	ppb

Bottle ID:	K2010727-001.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	KQ2018343
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	7.98 -0.01	7.82 -0.01	1158567	3357854	63.669	79.386	64	79	64	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	10.69 -0.01	10.54	5010026	16240250	60.721	84.864^{CCV}	172	241	**172**	Y
2,4,5-TP (Silvex)	10.25 -0.01	10.13 -0.01	5779050	17652021	61.688	86.957^{CCV}	175	247	**175**	Y
2,4-D	9.31 -0.01	9.06 -0.01	1331735	4097371	62.699	80.029^{CCV}	178	227	**178**	Y
2,4-DB	11.27 -0.01	11.17 -0.01	529793	1928583	51.640^{CCV}	66.467	146	188	**188**	Y
Dalapon	3.13	2.88	1225313	3299711	50.511	68.299	143	194	**143**	Y
Dicamba	8.21	7.93	4430090	11122410	63.468	75.043	180	213	**180**	Y
Dichlorprop	8.95 -0.01	8.76	1133044	3164188	60.760	75.852^{CCV}	172	215	**172**	Y
Dinoseb	11.67 -0.01	11.32	3365908	10361089	54.406	75.763^{CCV}	154	215	**154**	Y
MCPA	8.55 -0.01	8.36	445725	2107208	7612.396	9258.299^{CCV}	21600	26300	**21600**	Y
MCPP	8.29 -0.01	8.11 -0.01	404132	1639229	9205.363	9910.587^{CCV}	26100	28100	**26100**	Y

Prep Amount:	30.040 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	58.70

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

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

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

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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030059.D Vial: 48
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 10:57 am Operator: UA
Sample : KQ2018343-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:56:26 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...	7.985	7.822	1158567	3357854	63.669m	79.386	
	Target Compounds							
1) m	Dalapon	3.128	2.878	1225313	3299711	50.511	68.299	#
3) m	Dicamba	8.208	7.925	4430090	11122410	63.468	75.043	
4) m	MCPP	8.292	8.112	404132	1639229	9205.363	9910.587	
5) m	MCPA	8.555	8.358	445725	2107208	7612.396	9258.299	
6) m	Dichloroprop	8.955	8.755	1133044	3164188	60.760	75.852	
7) m	2,4-D	9.308	9.062	1331735	4097371	62.699	80.029	#
8) m	2,4,5-TP ...	10.252	10.132	5779050	17652021	61.688	86.957	#
9) m	2,4,5-T	10.692	10.535	5010026	16240250	60.721	84.864	#
10) m	2,4-DB	11.272	11.168	529793	1928583	51.640	66.467	#
11) m	Dinoseb	11.668	11.318	3365908	10361089	54.406	75.763	#

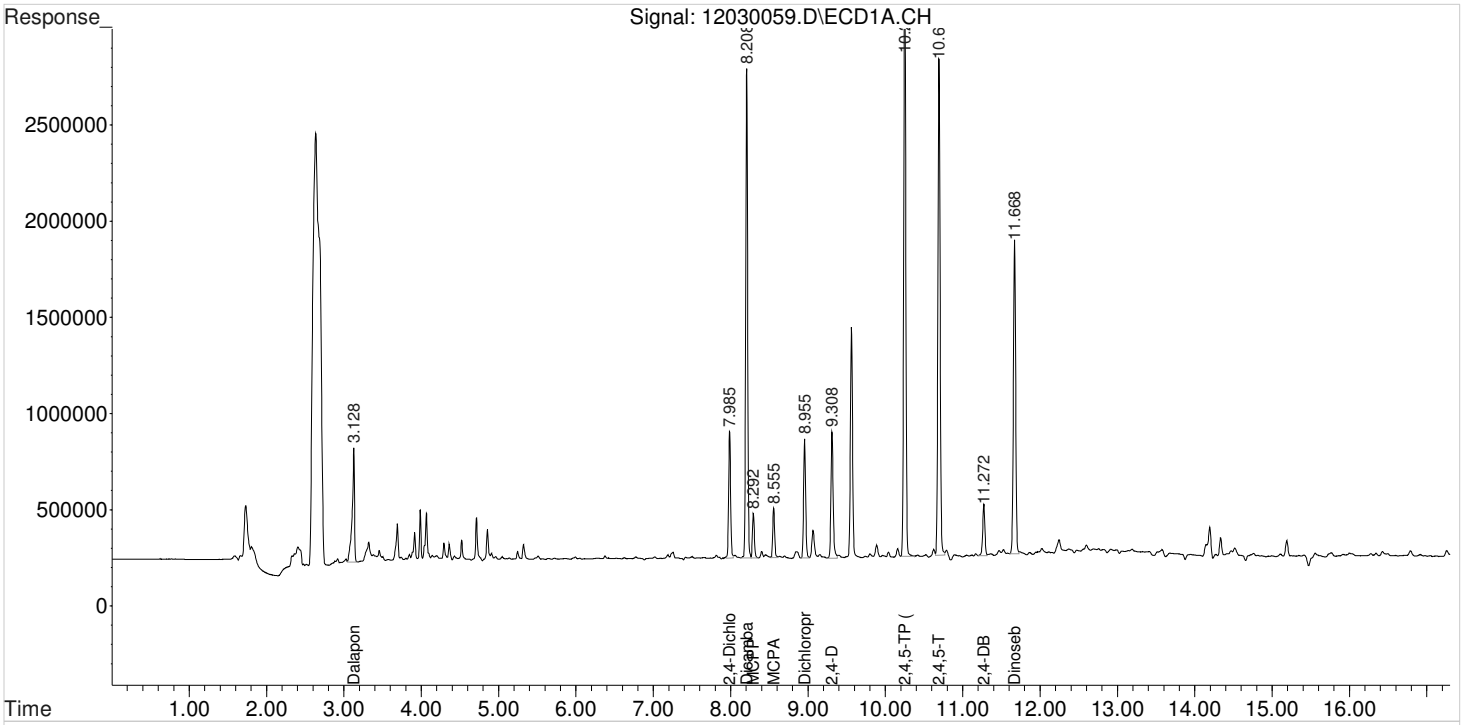
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

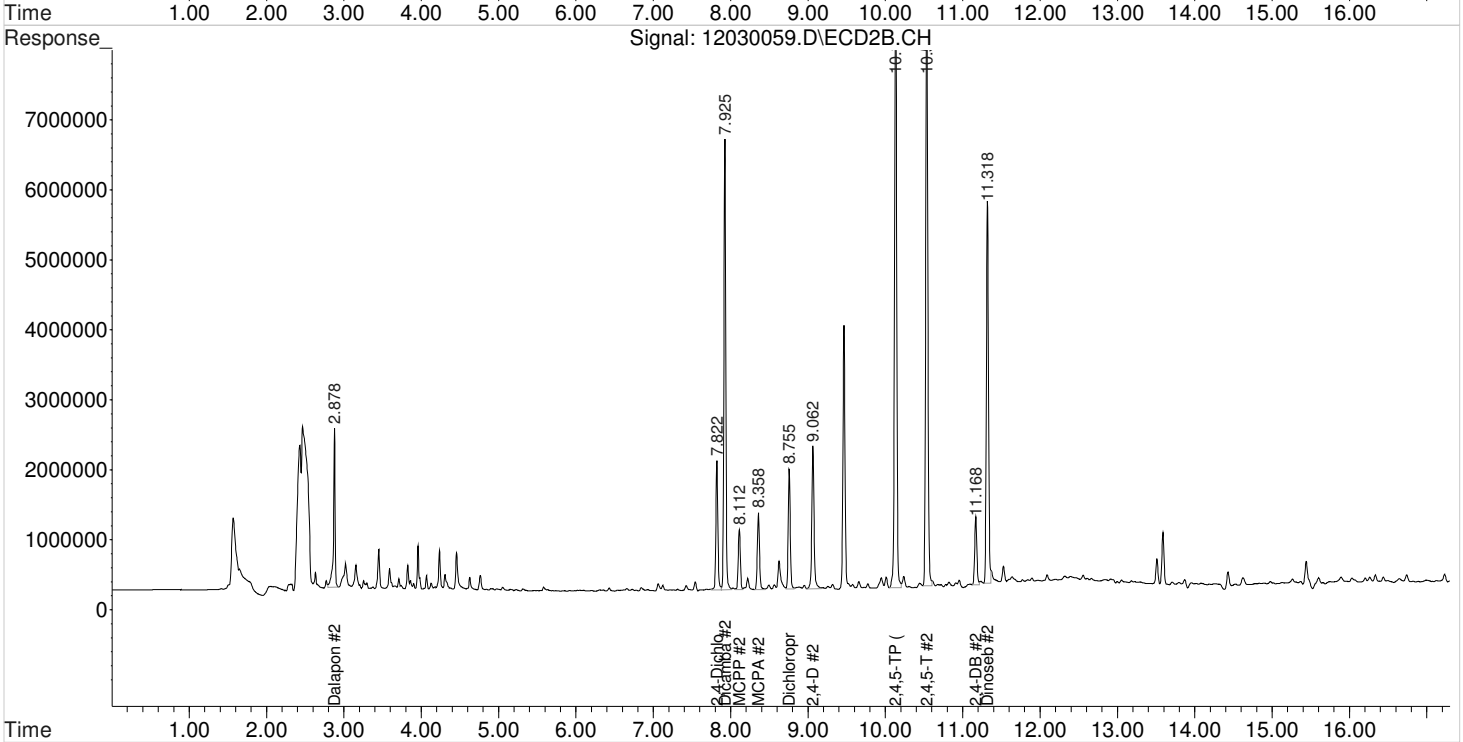
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030059.D Vial: 48
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 10:57 am Operator: UA
Sample : KQ2018343-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:56:26 2020
Quant Results File: 102120_8151.RES

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

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



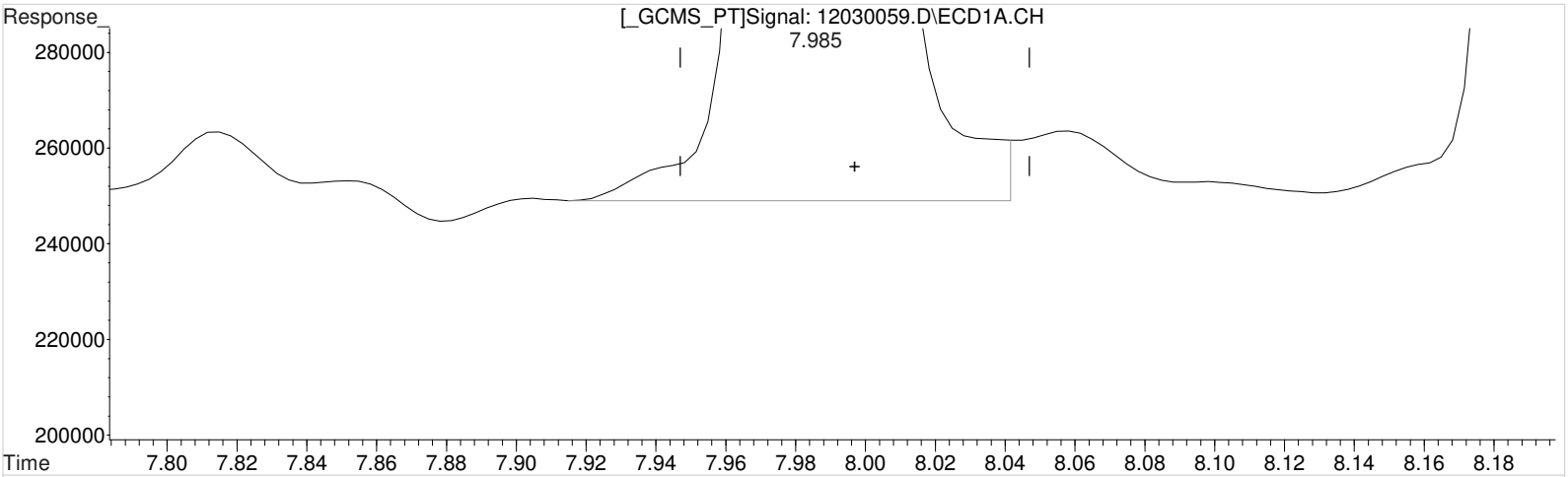


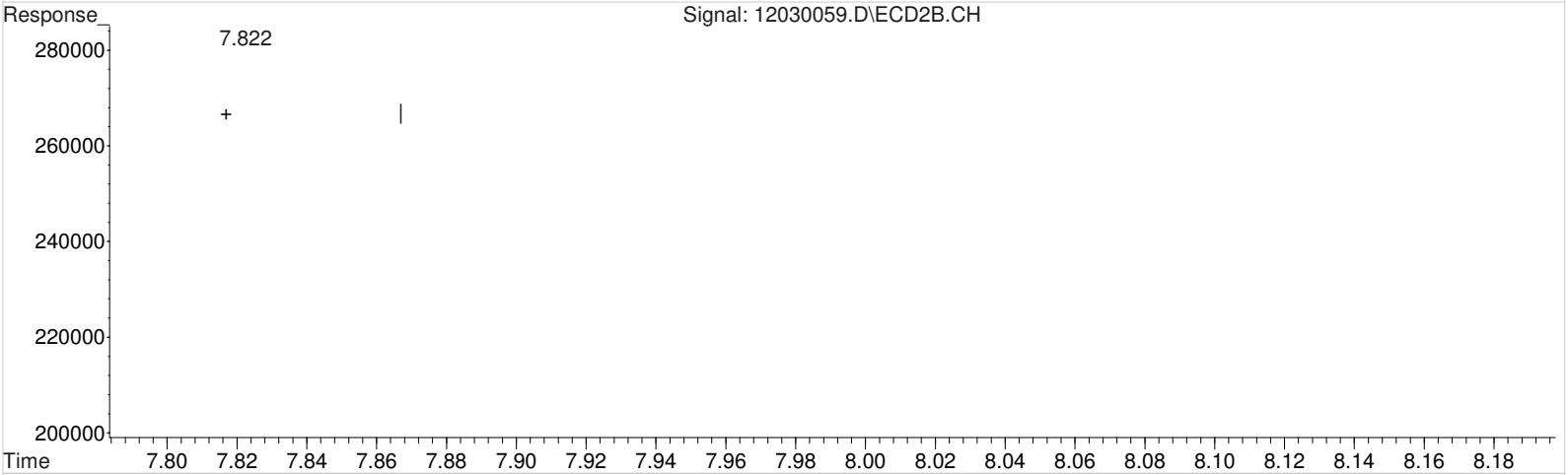
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030059.D Vial: 48
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 10:57 am Operator: UA
Sample : KQ2018343-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:40 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 17:31:59 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)

7.985min 64.652 ppb

response 1176441

Manual Integration:

Before

12/04/20

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

7.822min 79.386 ppb

response 3357854

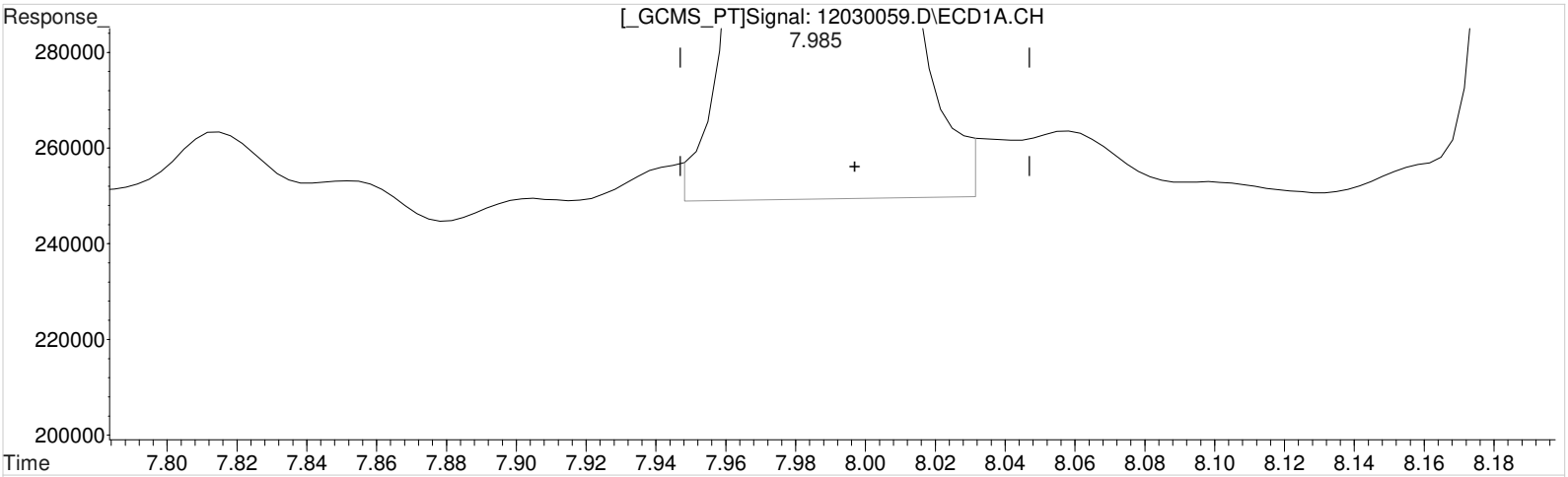
(+) = Expected Retention Time

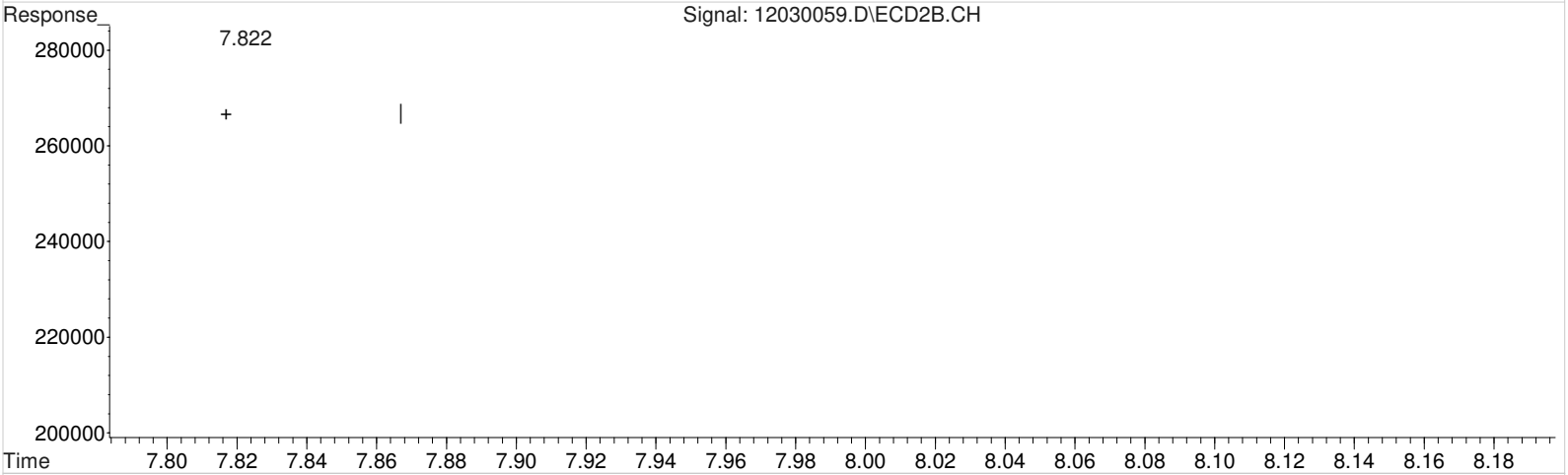
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030059.D Vial: 48
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 10:57 am Operator: UA
Sample : KQ2018343-01MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:40 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 17:31:59 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)

7.985min 63.669 ppb m

response 1158567

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.822min 79.386 ppb

response 3357854

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030060.D\
Lab ID: KQ2018343-02
RunType: DMS
Matrix: Sediment

Date Acquired: 12/4/20 11:20:00
Batch ID: 705934
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	28		20	samples ND
	2,4-D	21		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	25		20	
	2,4-D	24		20	

Primary Review: _____

Secondary Review: _____

1st UA 12/07/20
2nd SM 12/08/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030060.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 11:20:00	**Vial:**	5
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ2018343-02	**Raw Units:**	ppb

Bottle ID:	K2010727-001.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	KQ2018343
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

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 -0.01	7.82 -0.01	1177664	3284154	64.719	77.643	65	78	65	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25 -0.01	10.13 -0.01	5685205	17318402	60.687	85.313 CCV	172	242	**172**	Y
2,4-D	9.31 -0.01	9.06 -0.01	1296598	3832511	61.045	74.856 CCV	173	212	**173**	Y

Prep Amount:	30.075 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	58.70

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

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

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

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1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030060.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 11:20:00	**Vial:**	3
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ2018343-02	**Raw Units:**	ppb

Bottle ID:	K2010727-001.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/12/20	**Receive Date:**	11/18/20

Analysis Lot:	705934	**Prep Lot:**	370120	**Report Group:**	KQ2018343
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/19/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	7.98 -0.01	7.82 -0.01	1177664	3284154	64.719	77.643	65	78	65	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	10.69 -0.01	10.53 -0.01	4852710	15816709	58.814	82.651^{CCV}	167	234	**167**	Y
2,4,5-TP (Silvex)	10.25 -0.01	10.13 -0.01	5685205	17318402	60.687	85.313^{CCV}	172	242	**172**	Y
2,4-D	9.31 -0.01	9.06 -0.01	1296598	3832511	61.045	74.856^{CCV}	173	212	**173**	Y
2,4-DB	11.27 -0.01	11.17 -0.01	484025	1854027	47.179^{CCV}	63.897	134	181	**181**	Y
Dalapon	3.13	2.88	921279	2304101	37.978	47.691	108	135	**108**	Y
Dicamba	8.20 -0.01	7.92 -0.01	4357037	10923004	62.422	73.698	177	209	**177**	Y
Dichlorprop	8.95 -0.01	8.75 -0.01	1087177	3004720	58.301	72.030^{CCV}	165	204	**165**	Y
Dinoseb	11.67 -0.01	11.32	3297441	10247197	53.300	74.930^{CCV}	151	212	**151**	Y
MCPA	8.55 -0.01	8.35 -0.01	423839	2022571	7238.612	8810.970^{CCV}	20500	25000	**20500**	Y
MCPP	8.29 -0.01	8.11 -0.01	378834	1534701	8660.971	9188.154^{CCV}	24500	26000	**24500**	Y

Prep Amount:	30.075 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	58.70

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

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

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

Printed: 12/5/20 8:43
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030060.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 11:20 am Operator: UA
Sample : KQ2018343-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 16:05:31 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...	7.983	7.816	1177664	3284154	64.719	77.643
		Target Compounds						
1)	m	Dalapon	3.126	2.876	921279	2304101	37.978m	47.691m#
3)	m	Dicamba	8.203	7.920	4357037	10923004	62.422	73.698
4)	m	MCPP	8.290	8.106	378834	1534701	8660.971	9188.154
5)	m	MCPA	8.553	8.353	423839	2022571	7238.612	8810.970
6)	m	Dichloroprop	8.953	8.753	1087177	3004720	58.301	72.030
7)	m	2,4-D	9.306	9.060	1296598	3832511	61.045m	74.856
8)	m	2,4,5-TP ...	10.246	10.130	5685205	17318402	60.687	85.313 #
9)	m	2,4,5-T	10.690	10.533	4852710	15816709	58.814	82.651m#
10)	m	2,4-DB	11.273	11.166	484025	1854027	47.179	63.897 #
11)	m	Dinoseb	11.670	11.320	3297441	10247197	53.300	74.930 #

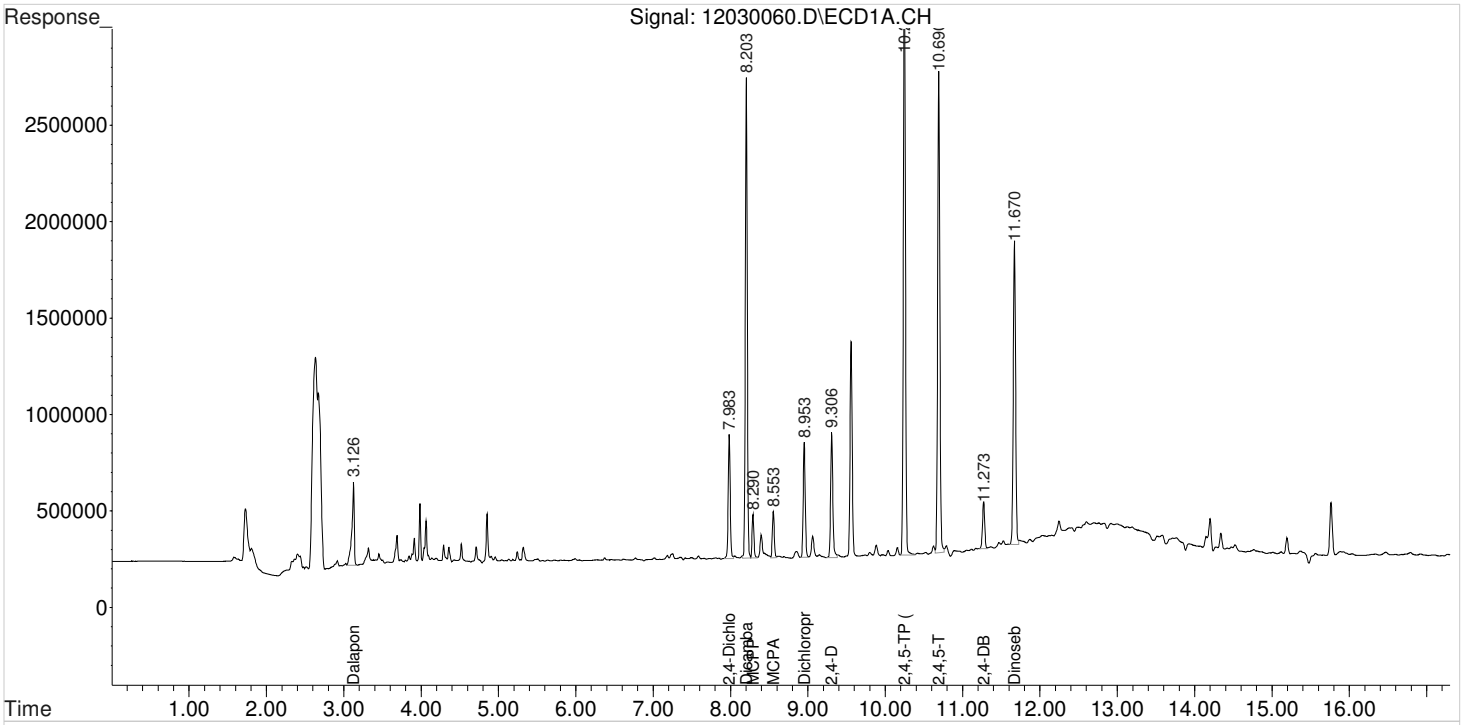
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

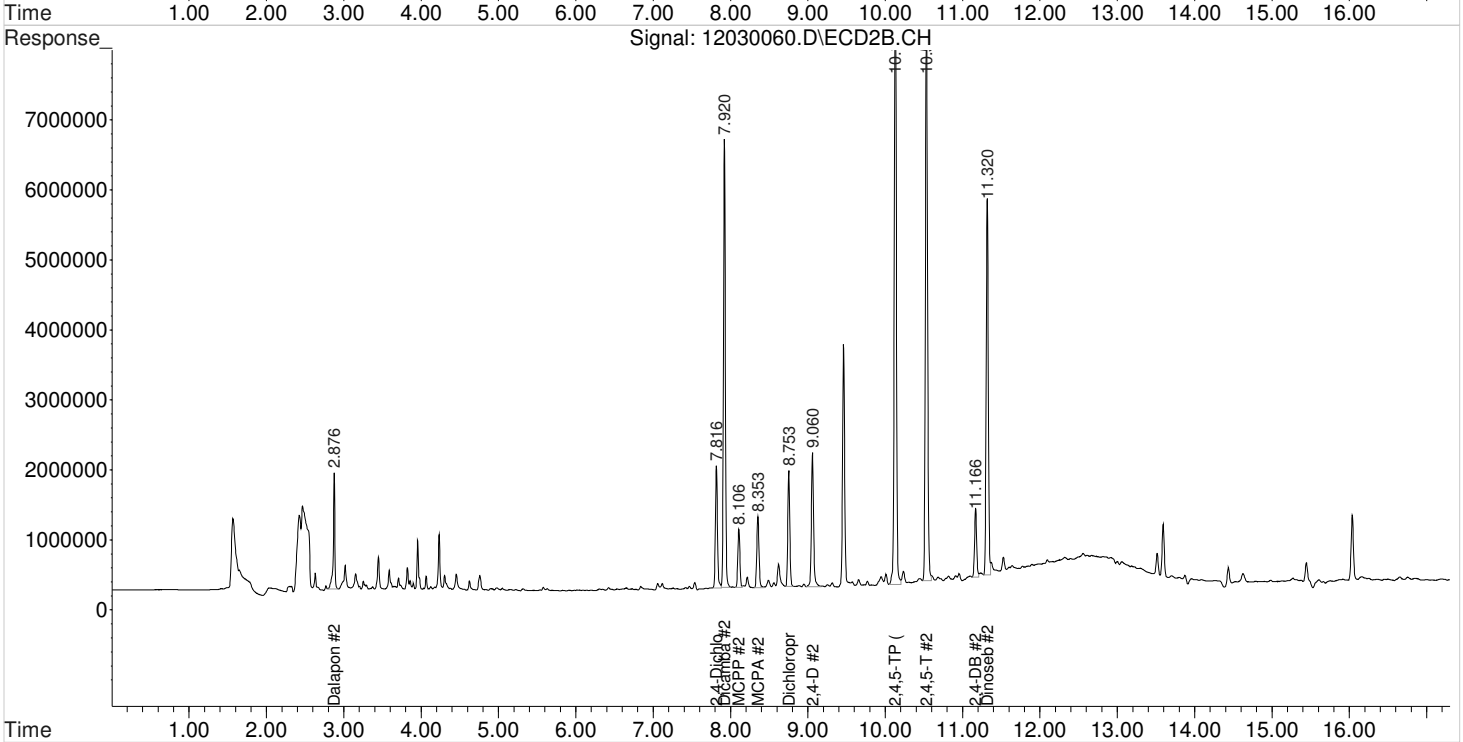
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030060.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 11:20 am Operator: UA
Sample : KQ2018343-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 16:05:31 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



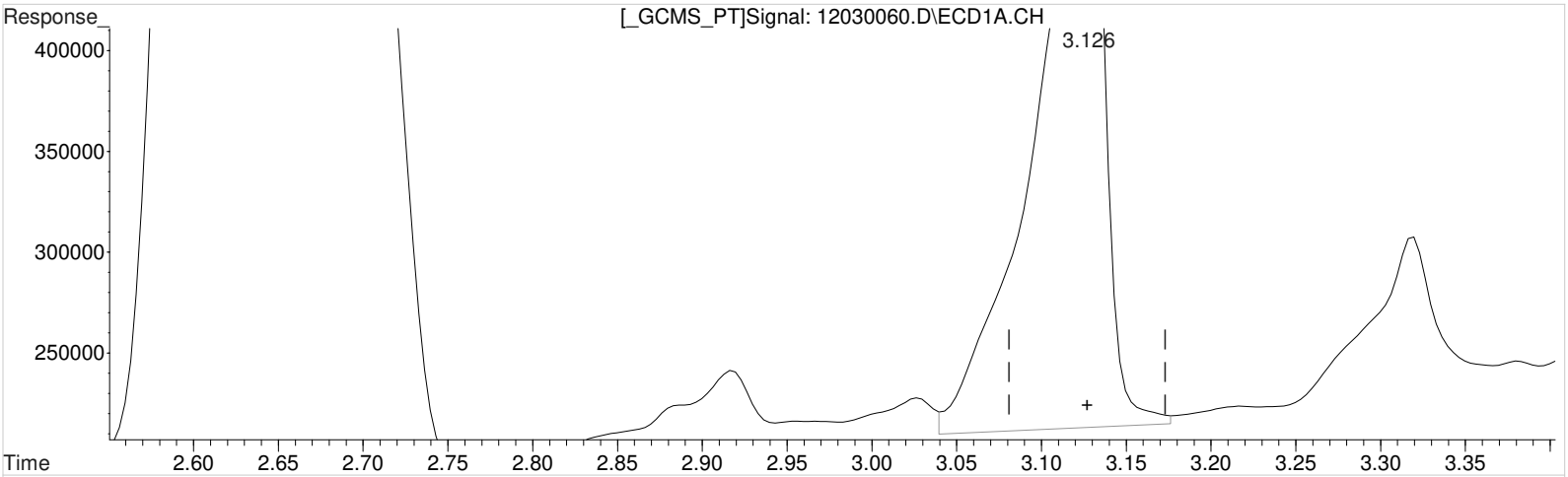


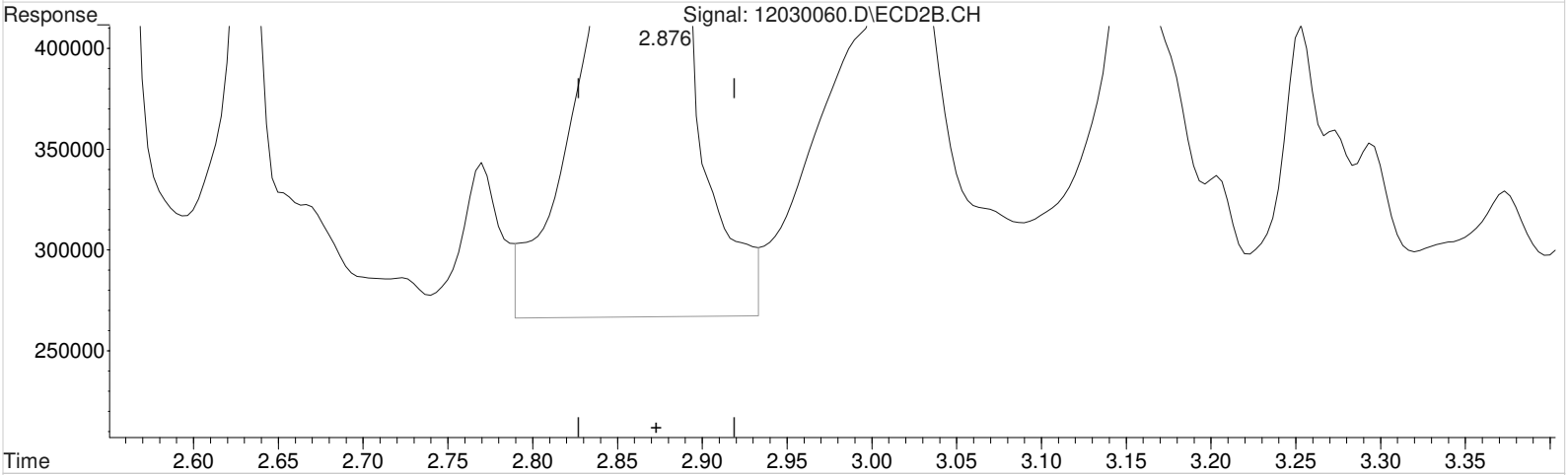
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030060.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 11:20 am Operator: UA
Sample : KQ2018343-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:58:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(1) Dalapon (m)

3.126min 40.083 ppb

response 972353

Manual Integration:

Before

12/04/20

(1) Dalapon #2 (m)

2.876min 53.816 ppb

response 2600005

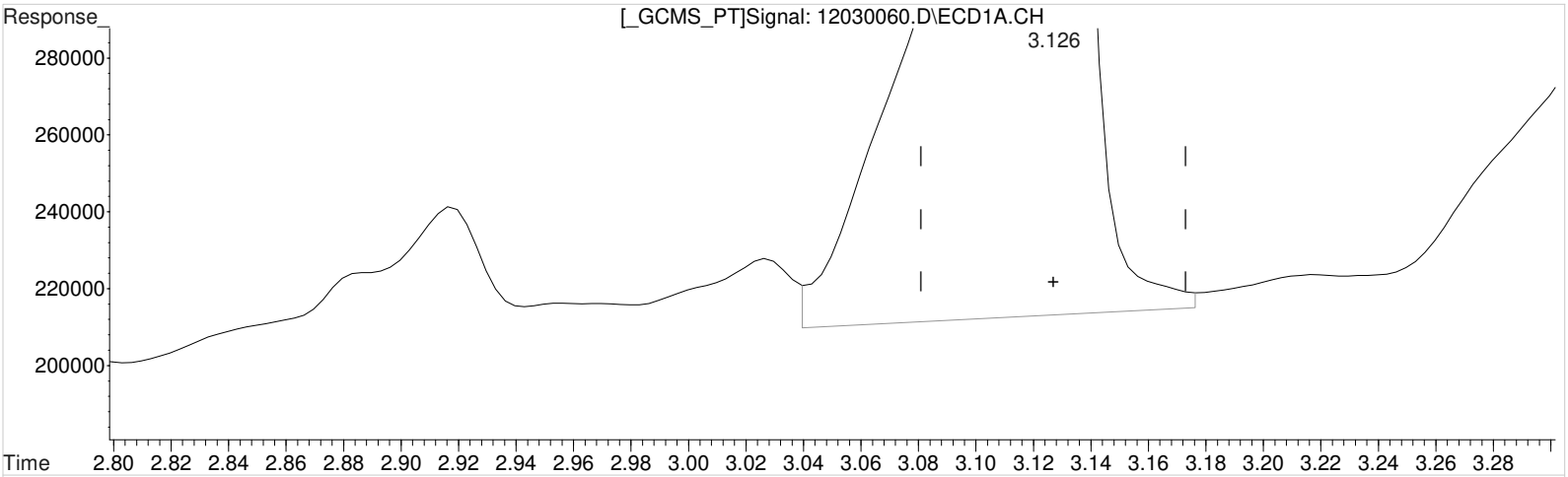
(+) = Expected Retention Time

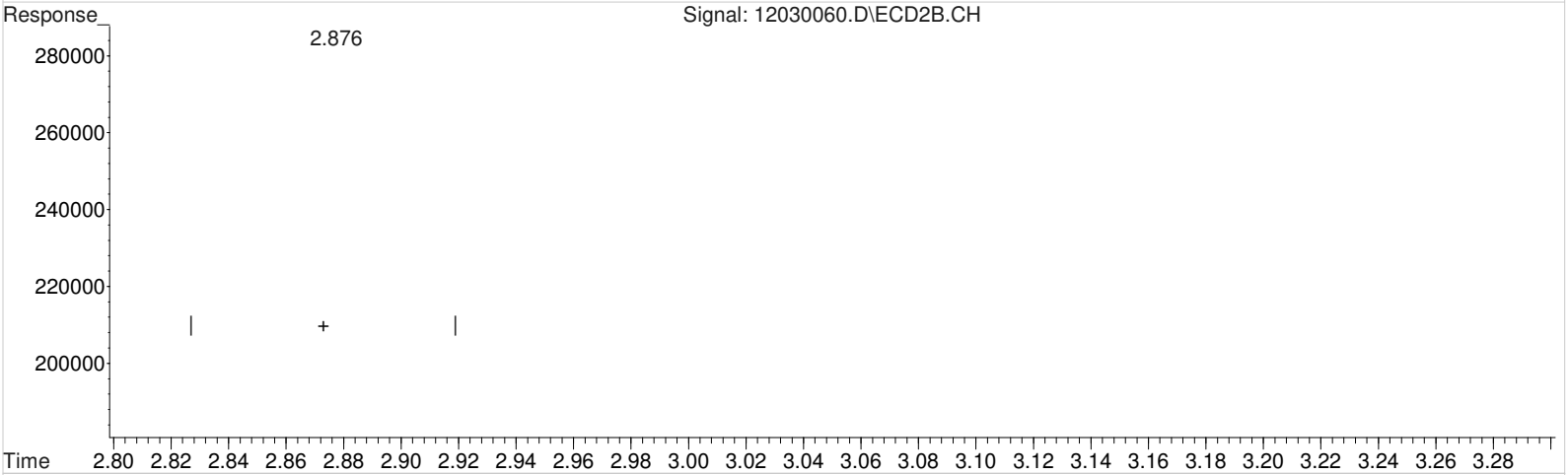
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030060.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 11:20 am Operator: UA
Sample : KQ2018343-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:58:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(1) Dalapon (m)

3.126min 40.083 ppb

response 972353

(1) Dalapon #2 (m)

2.876min 47.691 ppb m

response 2304101

Manual Integration:

Before

12/04/20

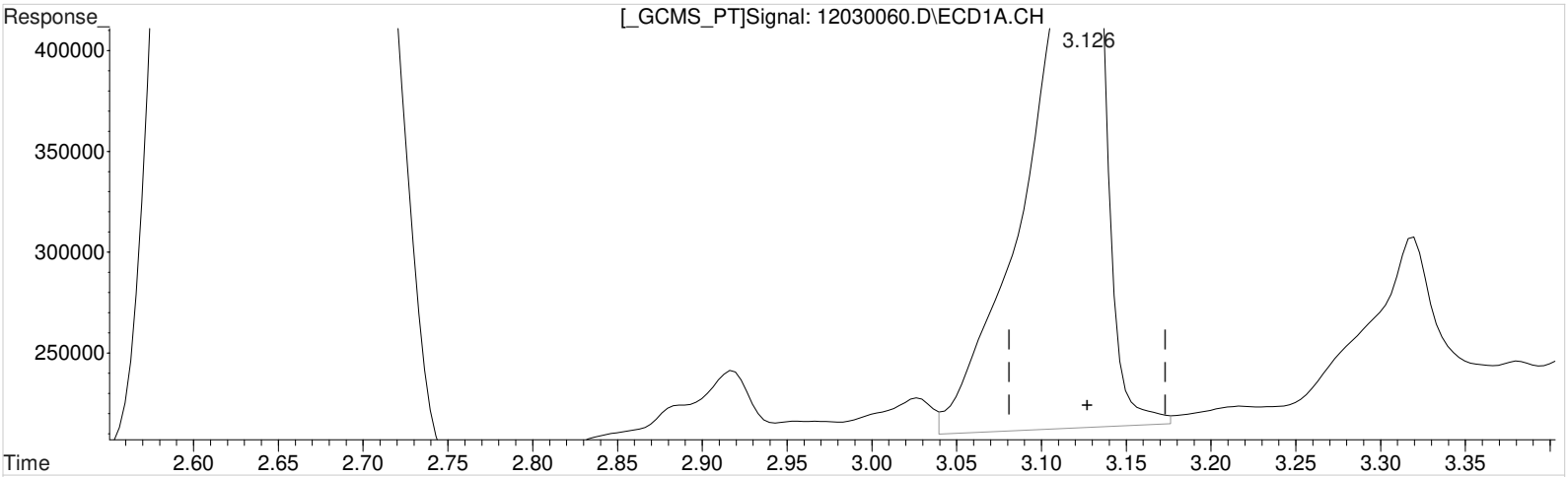
(+) = Expected Retention Time

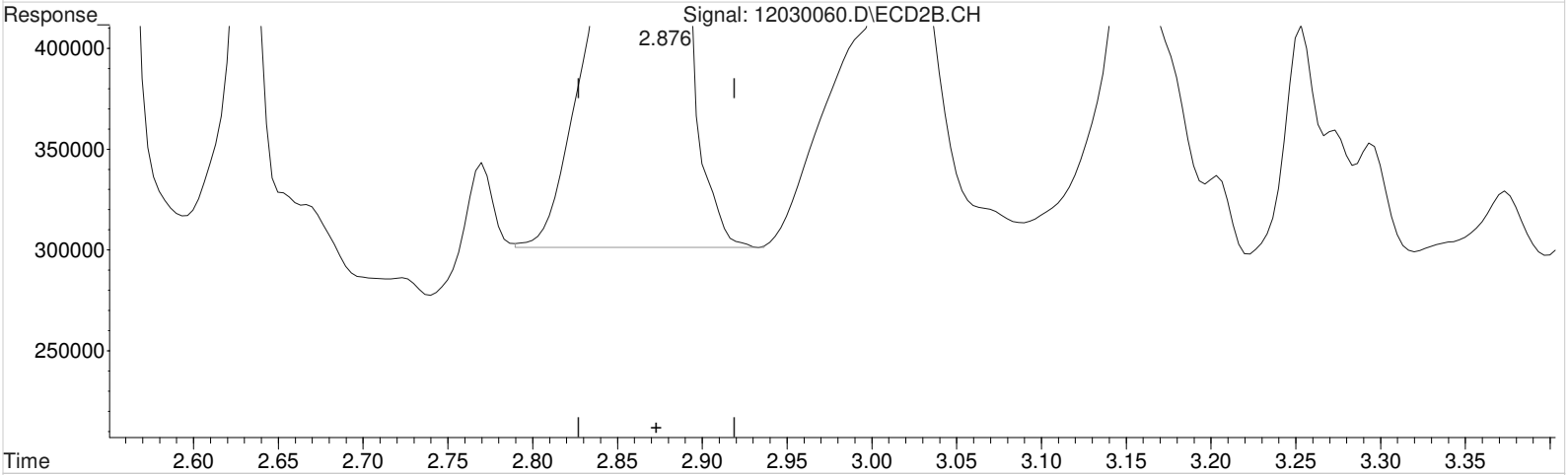
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030060.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 11:20 am Operator: UA
Sample : KQ2018343-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:58:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(1) Dalapon (m)

3.126min 40.083 ppb

response 972353

Manual Integration:

After

Baseline/Shoulder

12/04/20

(1) Dalapon #2 (m)

2.876min 47.691 ppb m

response 2304101

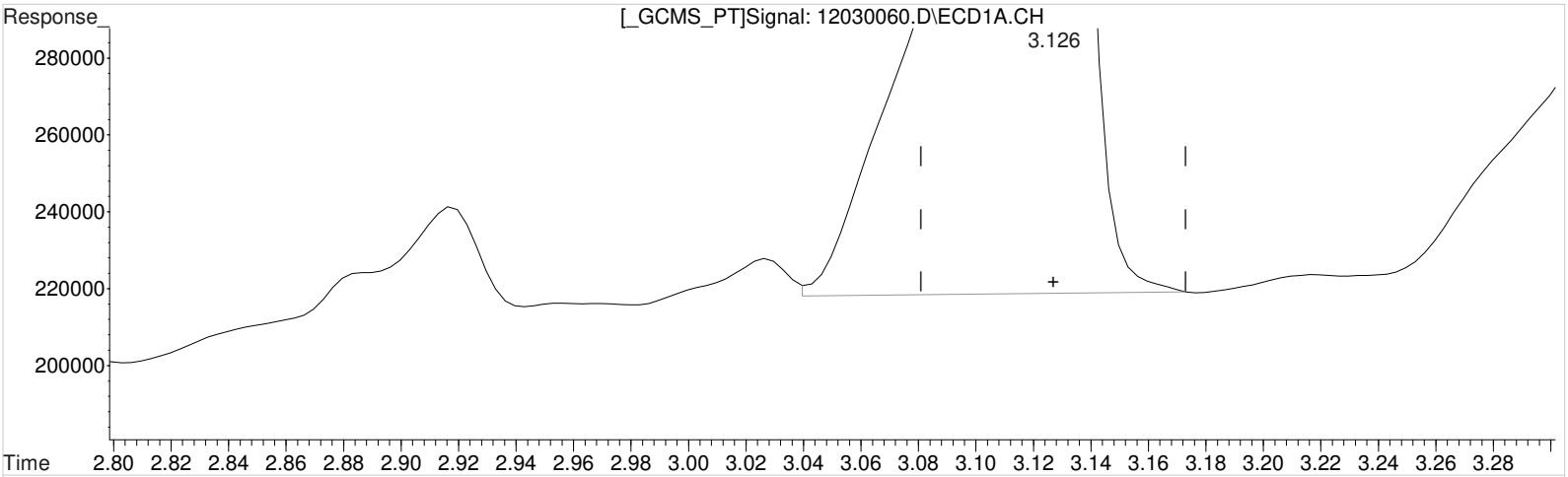
(+) = Expected Retention Time

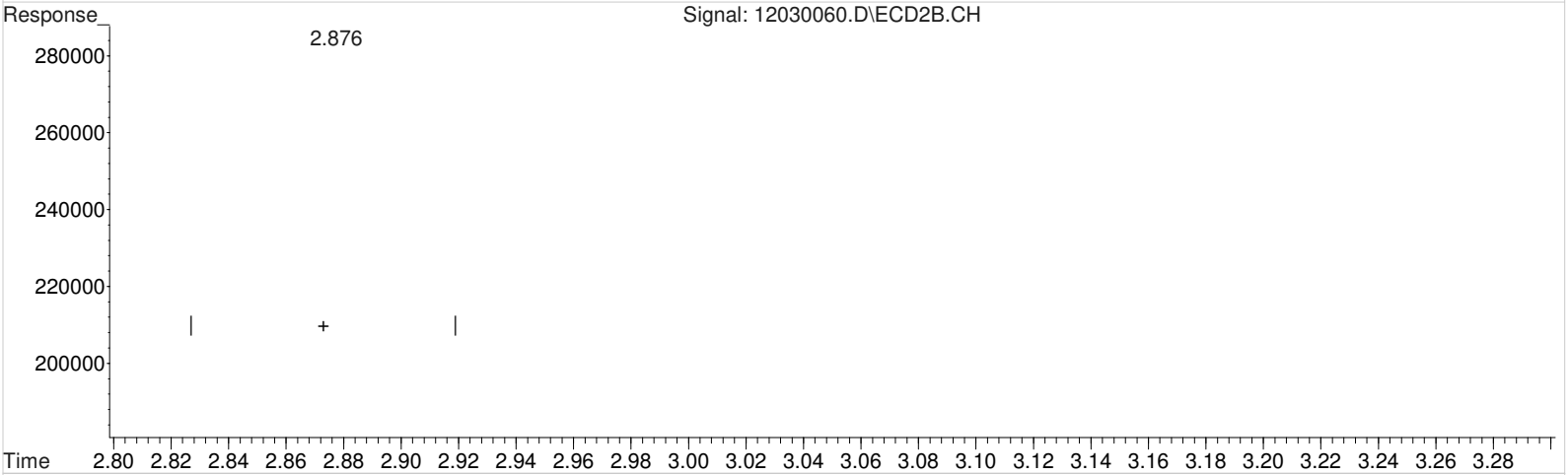
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030060.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 11:20 am Operator: UA
Sample : KQ2018343-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:58:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(1) Dalapon (m)

3.126min 37.978 ppb m

response 921279

(1) Dalapon #2 (m)

2.876min 47.691 ppb m

response 2304101

Manual Integration:

After

Baseline/Shoulder

12/04/20

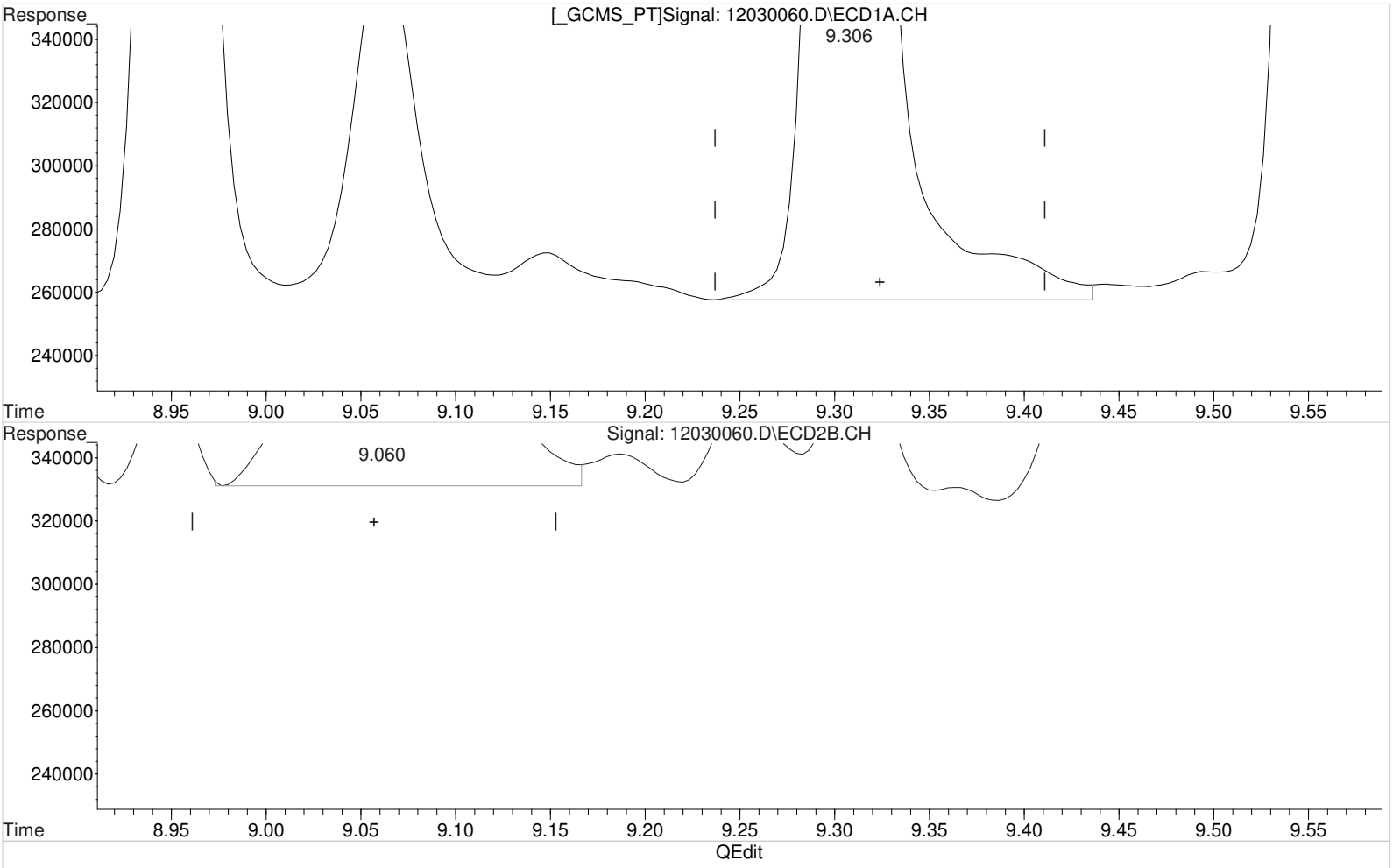
(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030060.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 11:20 am Operator: UA
Sample : KQ2018343-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:43 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

(7) 2,4-D (m)

9.306min 62.603 ppb

response 1329696

Manual Integration:

Before

12/04/20

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

9.060min 74.856 ppb

response 3832511

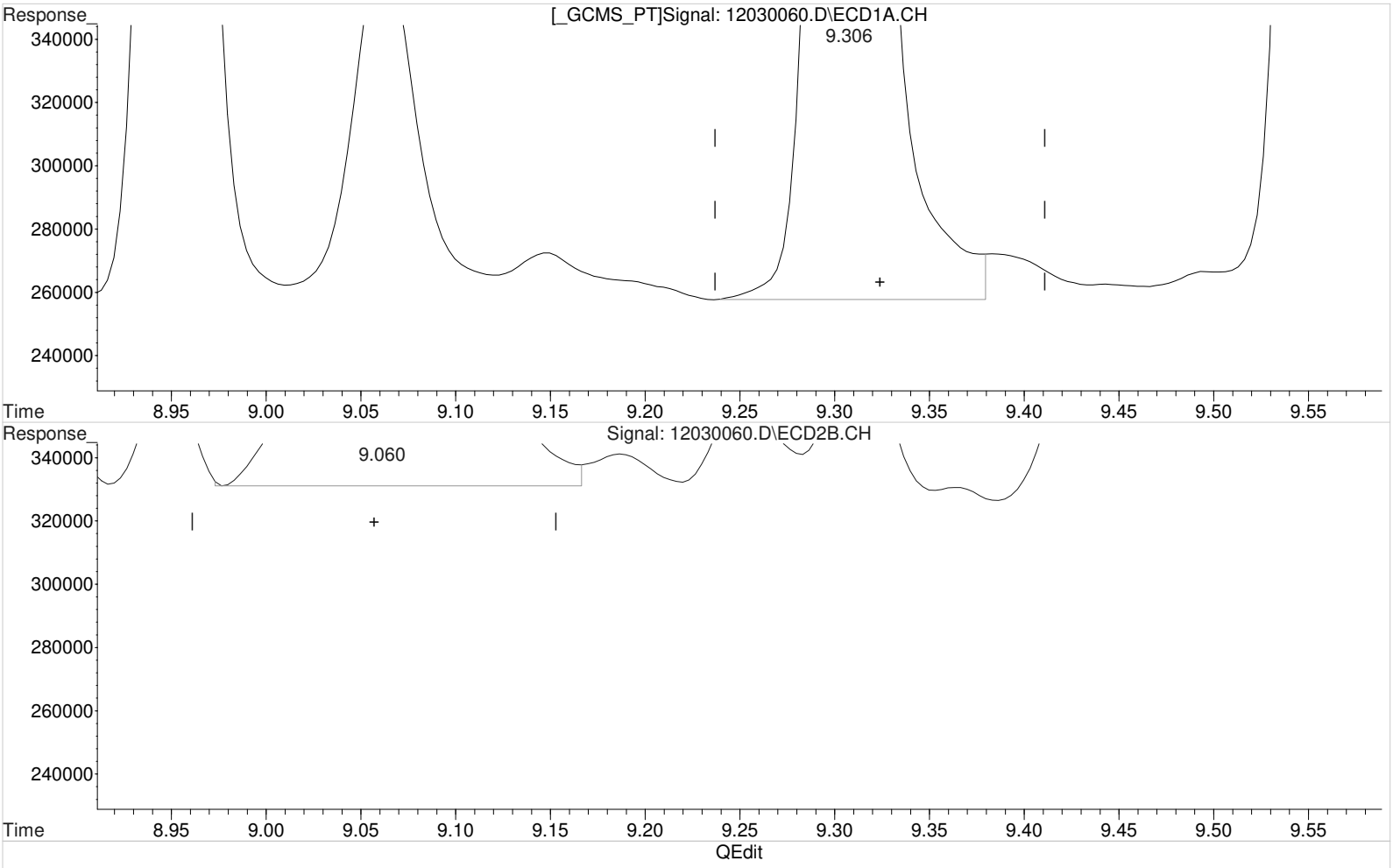
(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030060.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 11:20 am Operator: UA
Sample : KQ2018343-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:43 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

(7) 2,4-D (m)

9.306min 61.045 ppb m

response 1296598

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

9.060min 74.856 ppb

response 3832511

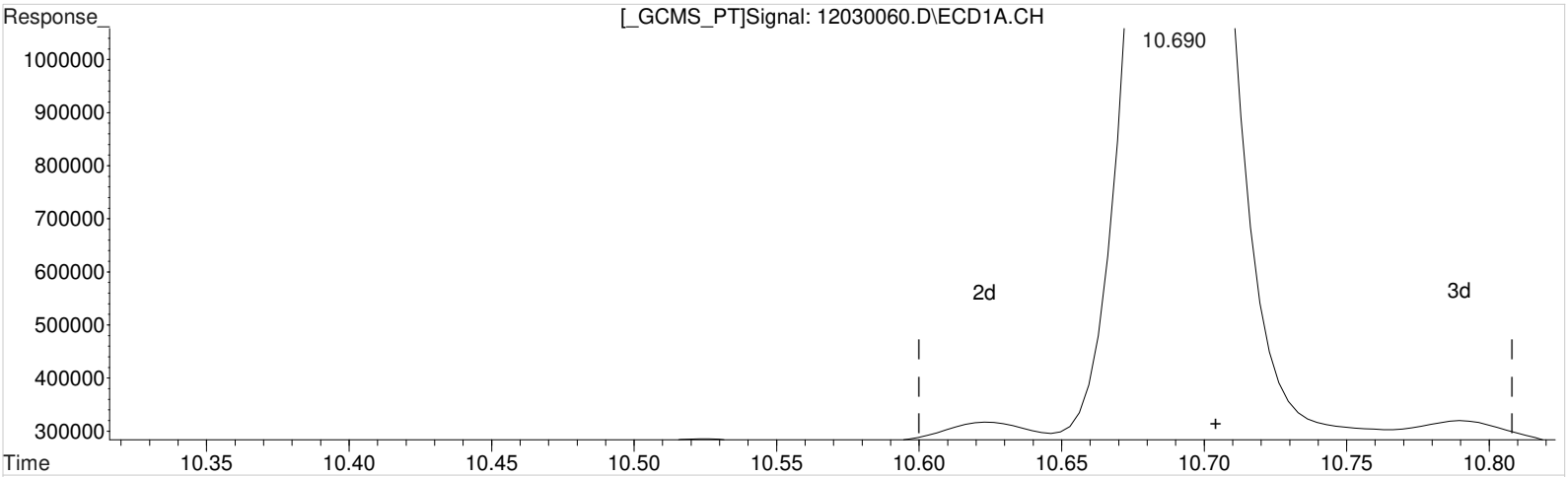
(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030060.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 11:20 am Operator: UA
Sample : KQ2018343-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:43 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



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

10.690min 58.814 ppb

response 4852710

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

10.533min 83.233 ppb

response 15928122

Manual Integration:

Before

12/04/20

(+) = Expected Retention Time

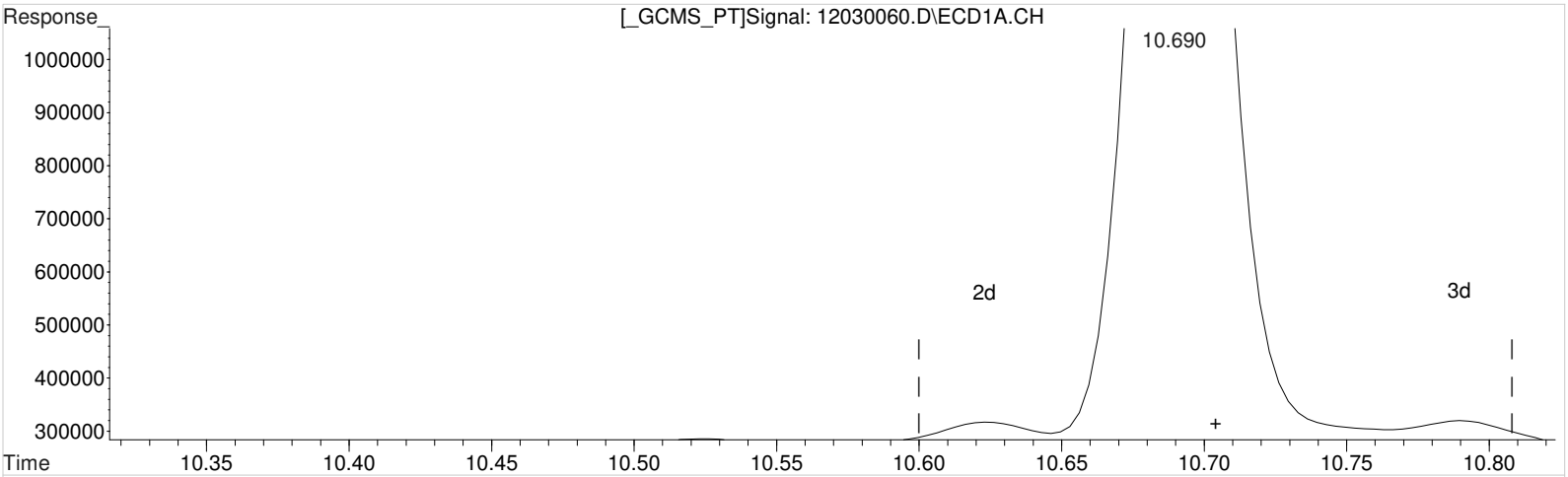
Quantitation Report (Qedit)

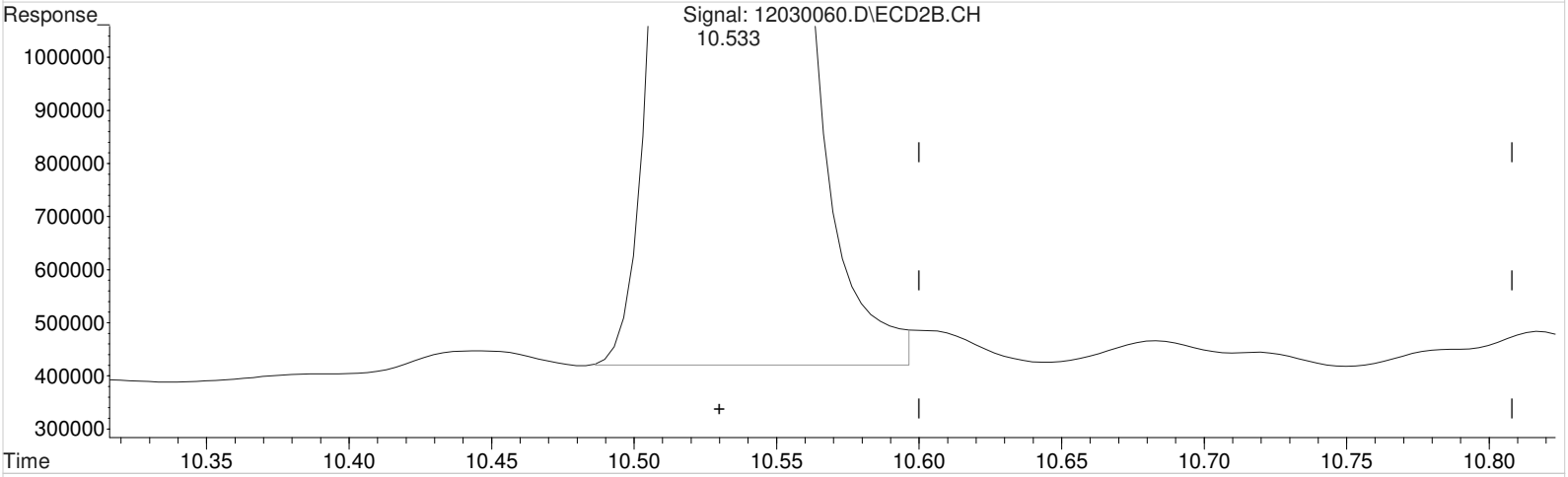
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030060.D Vial: 49
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 11:20 am Operator: UA
Sample : KQ2018343-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:43 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

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

10.690min 58.814 ppb

response 4852710

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

10.533min 82.651 ppb m

response 15816709

Manual Integration:

After

Baseline/Shoulder

12/04/20

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030041.D\
Lab ID: KQ2019401-02
RunType: CCB
Matrix: Soil

Date Acquired: 12/4/20 04:05:00
Batch ID: 705934
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-T	27		20	CCV+ND
	2,4,5-TP (Silvex)	31		20	
	2,4-D	27		20	
	Dinoseb	31		20	
	MCPA	35		20	
	MCPP	23		20	CEND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-T	23		20	CEND
	2,4,5-TP (Silvex)	28		20	
	2,4-D	21		20	
	Dinoseb	28		20	
	MCPA	32		20	
	MCPP	27		20	
Analyte Coelutions - RTX-CLP2	Dicamba	8.22			
	MCPP	8.22			

Primary Review: _____

Secondary Review: _____

1st UA 12/07/20
2nd SM 12/08/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030041.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 04:05:00	**Vial:**	4
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019401-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
Analysis	8151A	**Prep Method:**			
		Prep Date:			

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.01 +0.02	7.84 +0.01	8582	42353	0.472	1.001				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.14	10043	35522	0.107	0.175 CCV	0.18U	0.29U	2.4 U	Y
2,4-D	9.35 +0.03	9.05 -0.02	1568	301961	0.074	5.898 CCV	0.12U	9.8J	7.7 U	Y

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

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

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

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

Printed: 12/7/20 16:18
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1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030041.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 04:05:00	**Vial:**	6
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019401-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	8.01 +0.02	7.84 +0.01	8582	42353	0.472	1.001				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	10.72 +0.02	10.56 +0.02	11589	45034	0.140	0.235CCV	0.23U	0.39U	4.0 U	Y
2,4,5-TP (Silvex)	10.26	10.14	10043	35522	0.107	0.175CCV	0.18U	0.29U	2.4 U	Y
2,4-D	9.35 +0.03	9.05 -0.02	1568	301961	0.074	5.898CCV	0.12U	9.8J	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	5.4 U	Y
Dalapon	3.14 +0.01	2.91 +0.03	12316	50885	0.508	1.053	0.85U	1.8U	5.5 U	Y
Dicamba	8.22 +0.0[illegible]	7.94 +0.01	7762	20276	0.111	0.137	0.19U	0.23U	4.3 U	Y
Dichlorprop	9.00 +0.04	8.77 +0.01	6606	9676	0.354	0.232	0.59U	0.39U	3.4 U	Y
Dinoseb	11.69 +0.01	11.33	8750	70107	0.141	0.513CCV	0.24U	0.86U	2.7 U	Y
MCPA	8.58 +0.02	0.00	25860	16640	441.655	0.000CCV	740J	0U	320 U	Y
MCPP	8.22 -0.0[illegible]	0.00	8360	6408	688.677	0.000CCV	1100J	0U	460 U	Y

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

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

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

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

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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:13:21 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...	8.009	7.839	8582	42353	0.472	1.001m#
		Target Compounds						
1)	m	Dalapon	3.135	2.905f	12316	50885	0.508m	1.053m#
3)	m	Dicamba	8.222	7.935	7762	20276	0.111m	0.137
4)	m	MCPP	8.222f	8.139	8360	6408	688.677m	N.D. m#
5)	m	MCPA	8.575	8.325	25860	16640	441.655m	N.D. #
6)	m	Dichloroprop	8.995	8.765	6606	9676	0.354m	0.232 #
7)	m	2,4-D	9.345	9.049	1568	301961	0.074	5.898 #
8)	m	2,4,5-TP ...	10.262	10.142	10043	35522	0.107m	0.175 #
9)	m	2,4,5-T	10.715	10.559	11589	45034	0.140m	0.235m#
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	11.685	11.332	8750	70107	0.141m	0.513 #

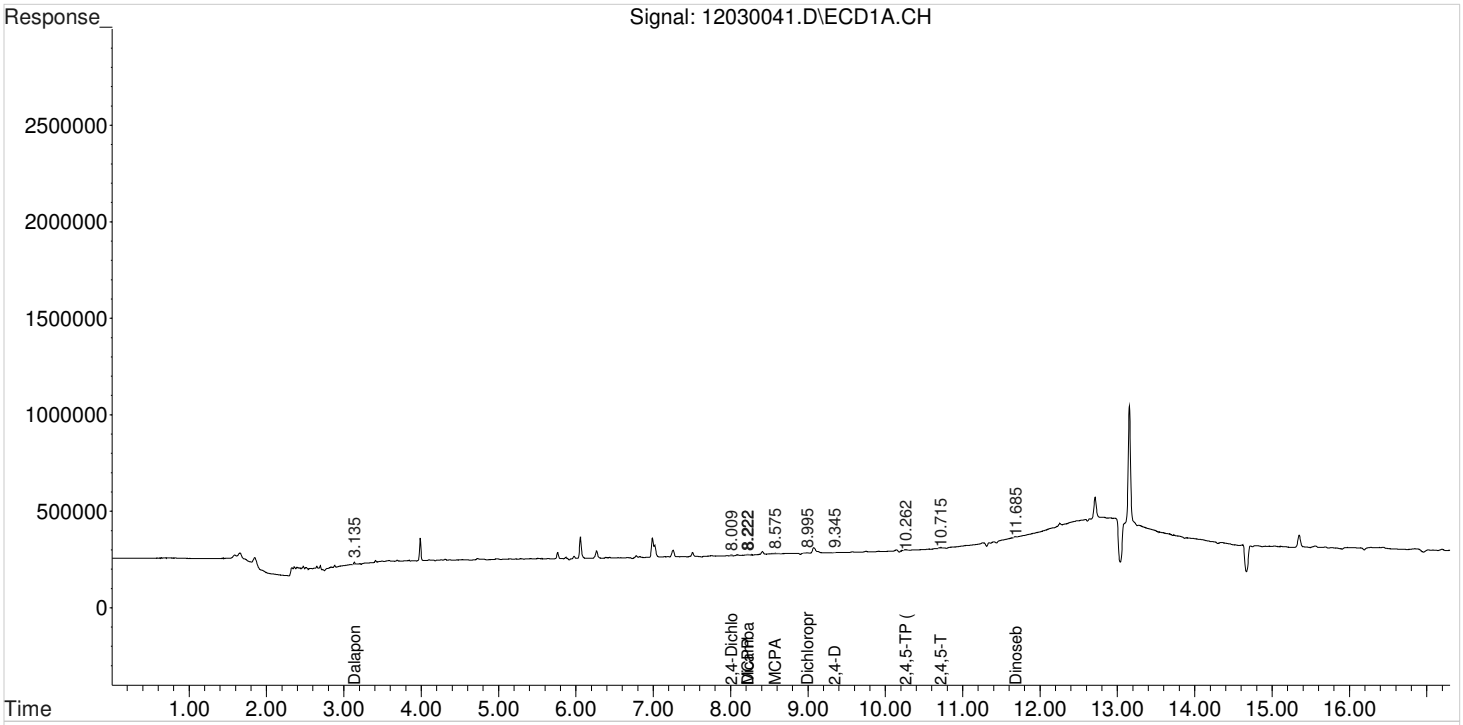
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

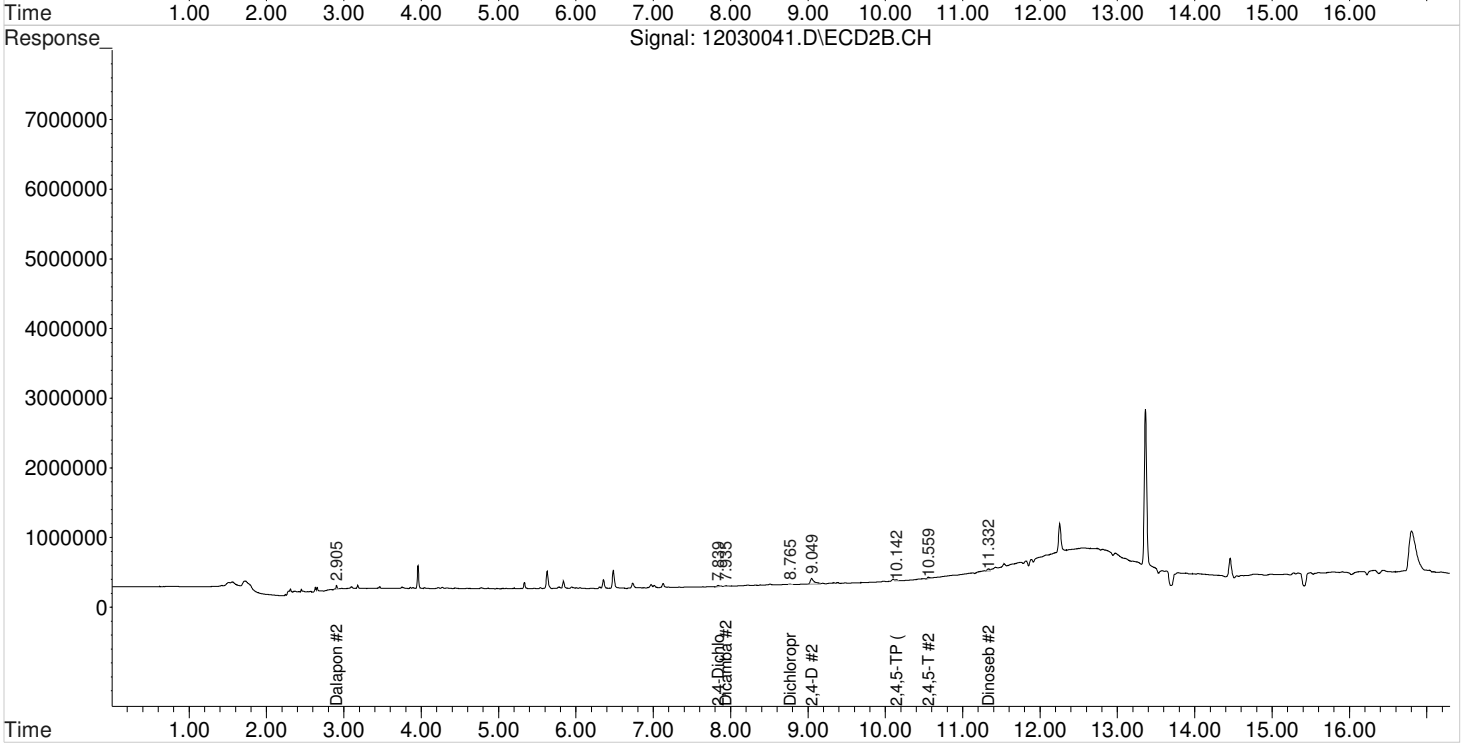
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:13:21 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



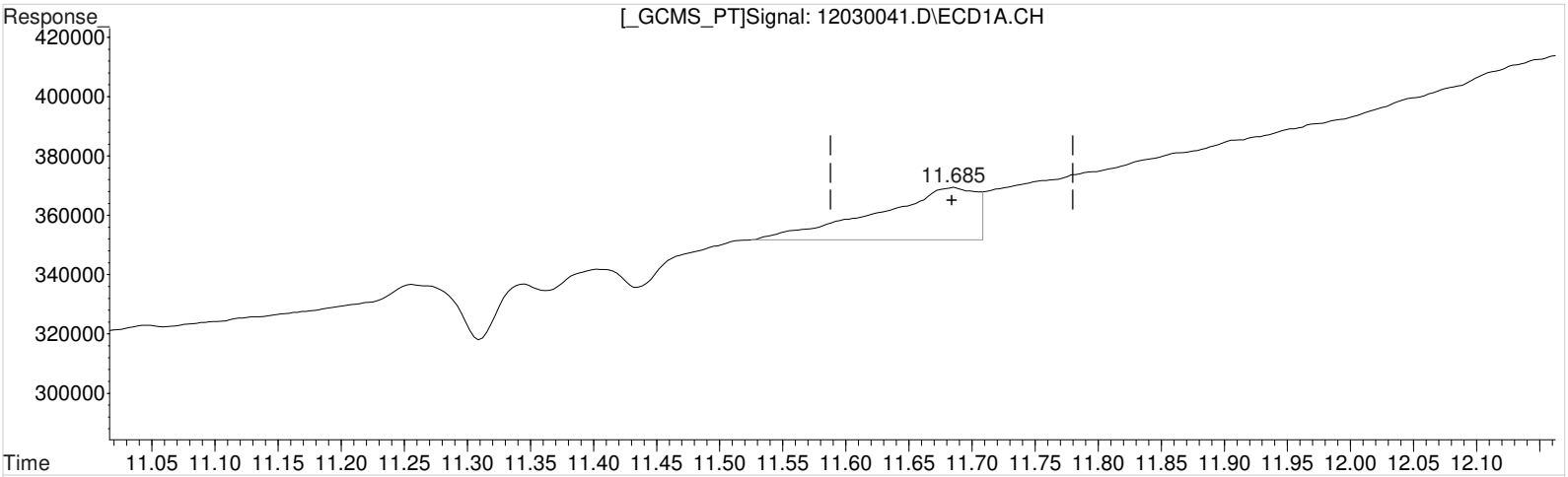


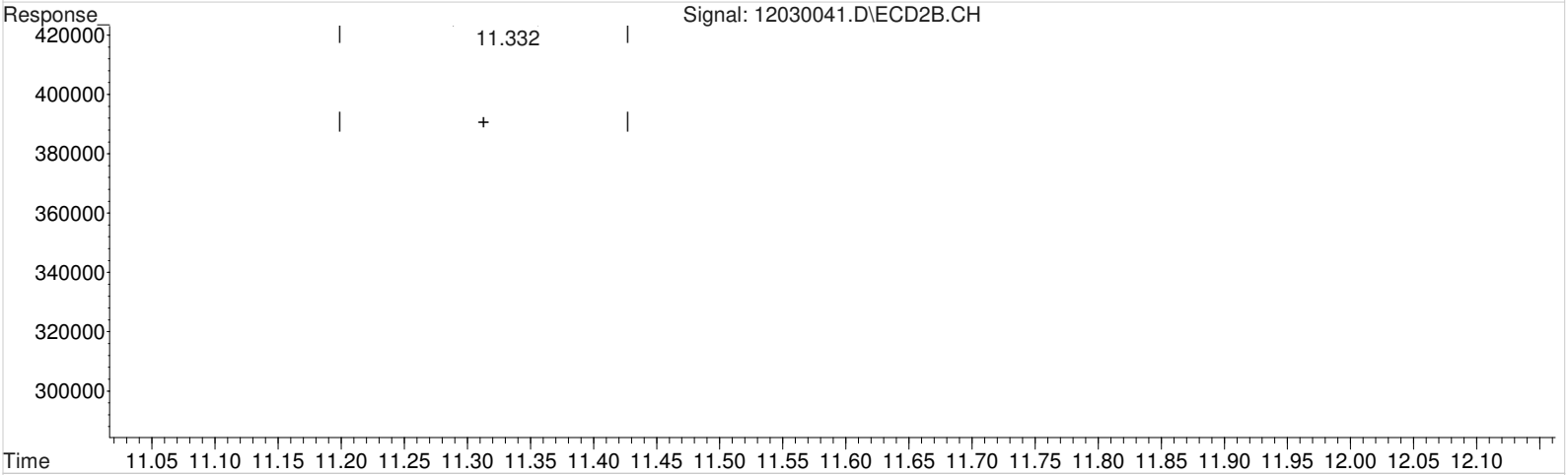
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(11) Dinoseb (m)

11.685min 1.610 ppb

response 99584

Manual Integration:

Before

12/04/20

(11) Dinoseb #2 (m)

11.332min 0.513 ppb

response 70107

(+) = Expected Retention Time

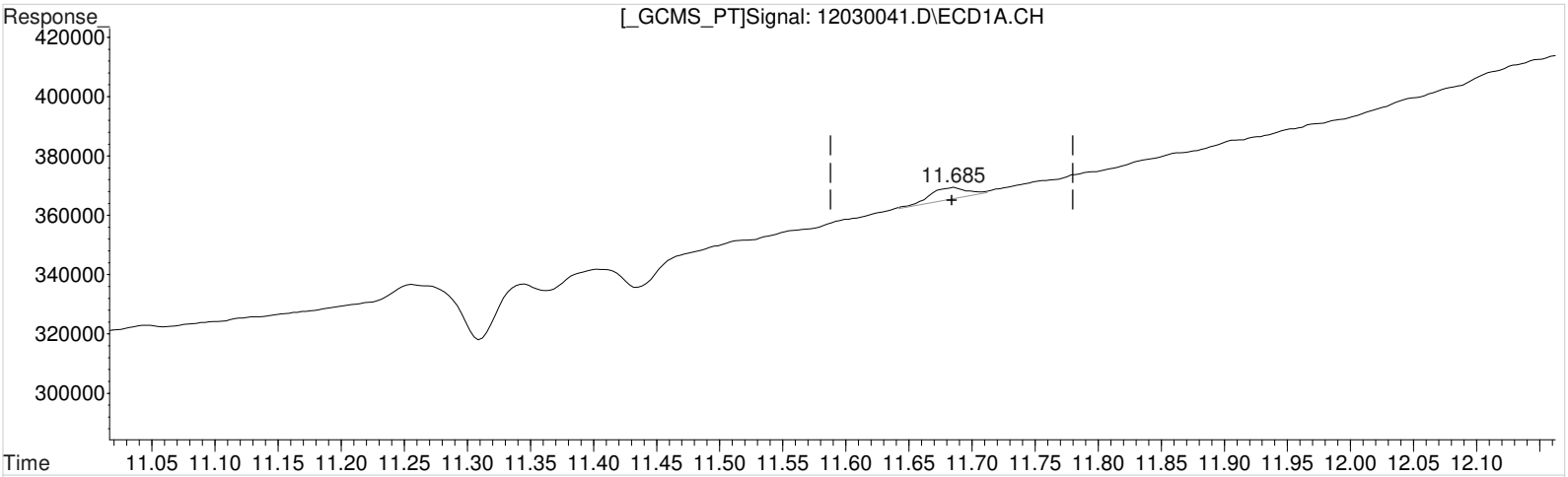
Quantitation Report (Qedit)

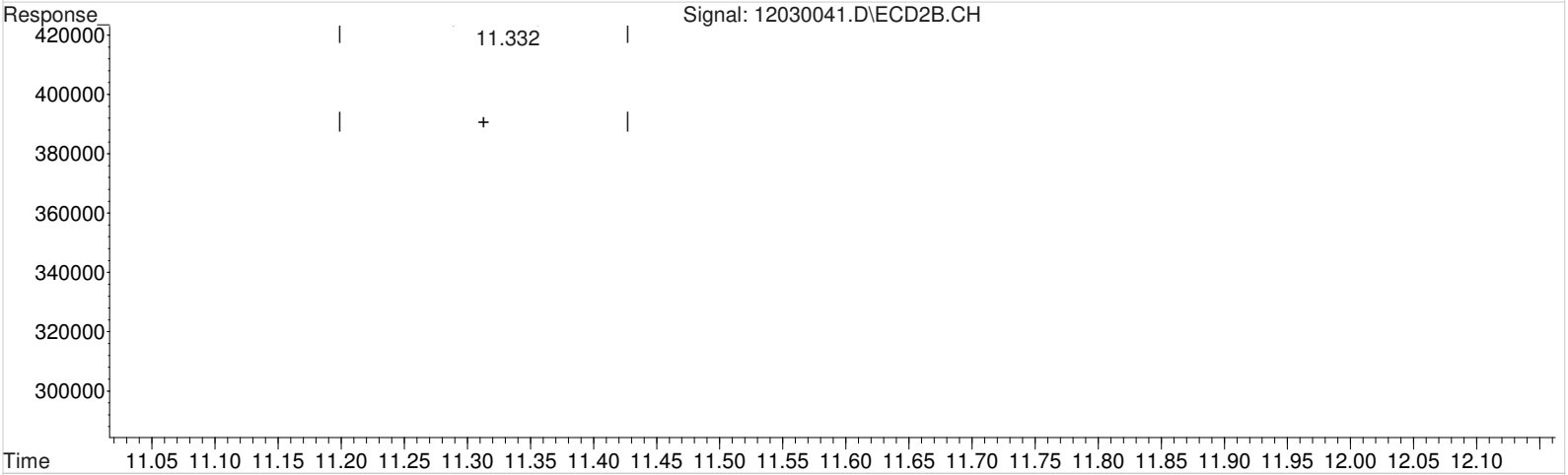
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(11) Dinoseb (m)

11.685min 0.141 ppb m

response 8750

Manual Integration:

After

Baseline/Shoulder

12/04/20

(11) Dinoseb #2 (m)

11.332min 0.513 ppb

response 70107

(+) = Expected Retention Time

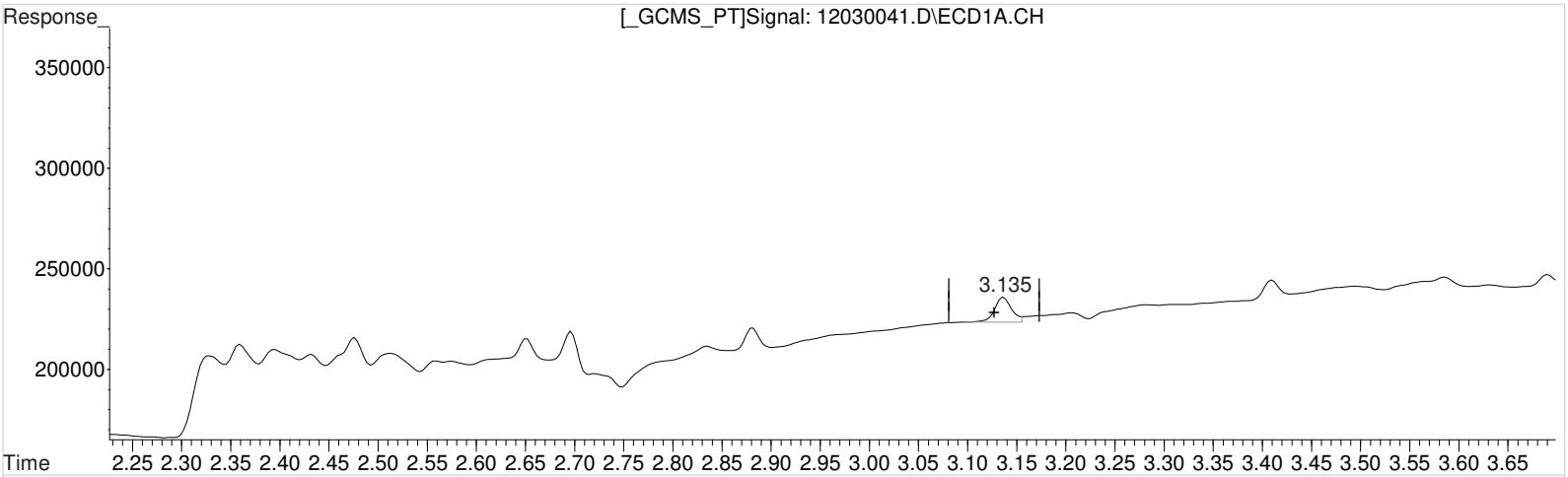
Quantitation Report (Qedit)

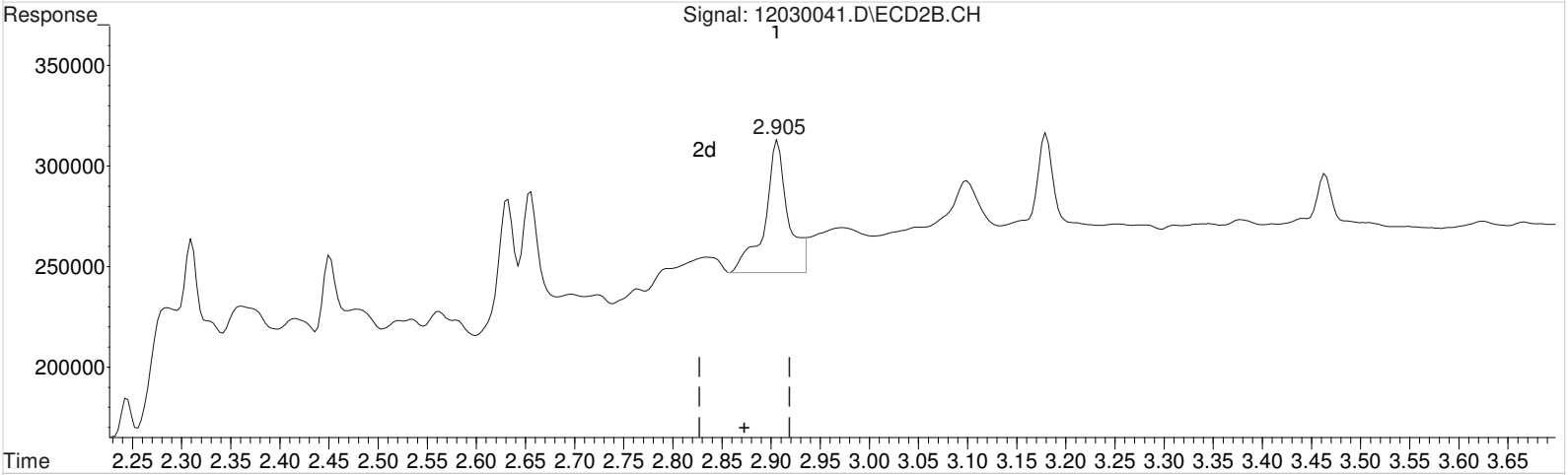
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(1) Dalapon (m)

3.135min 0.639 ppb

response 15508

(1) Dalapon #2 (m)

2.905min 2.281 ppb

response 110221

Manual Integration:

Before

12/04/20

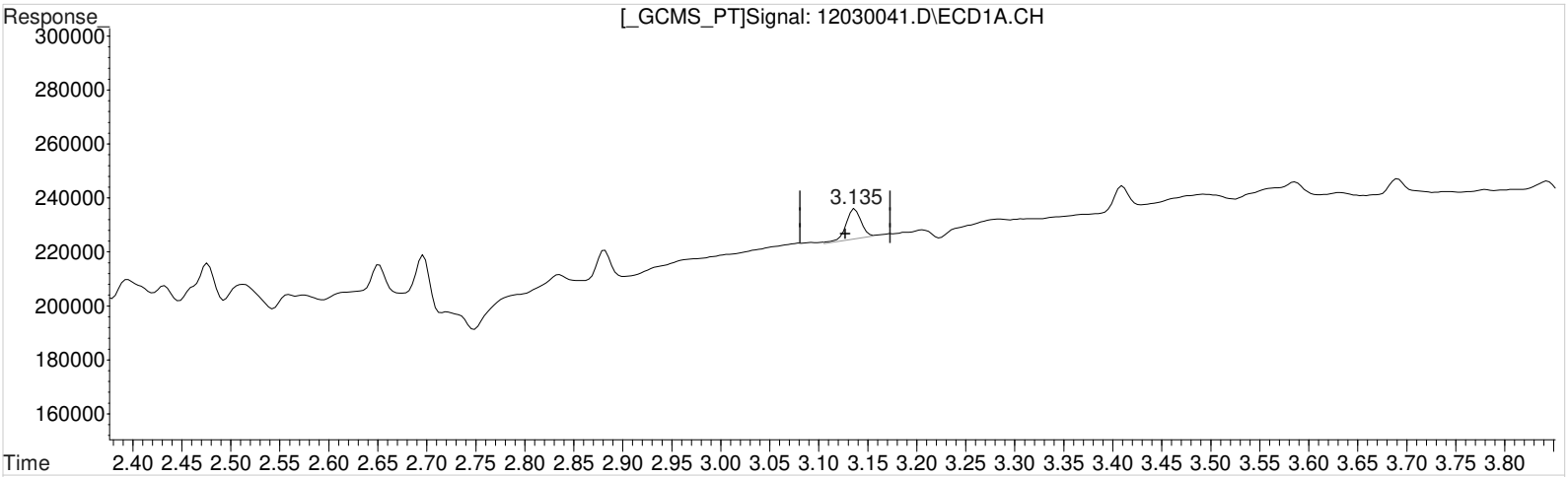
(+) = Expected Retention Time

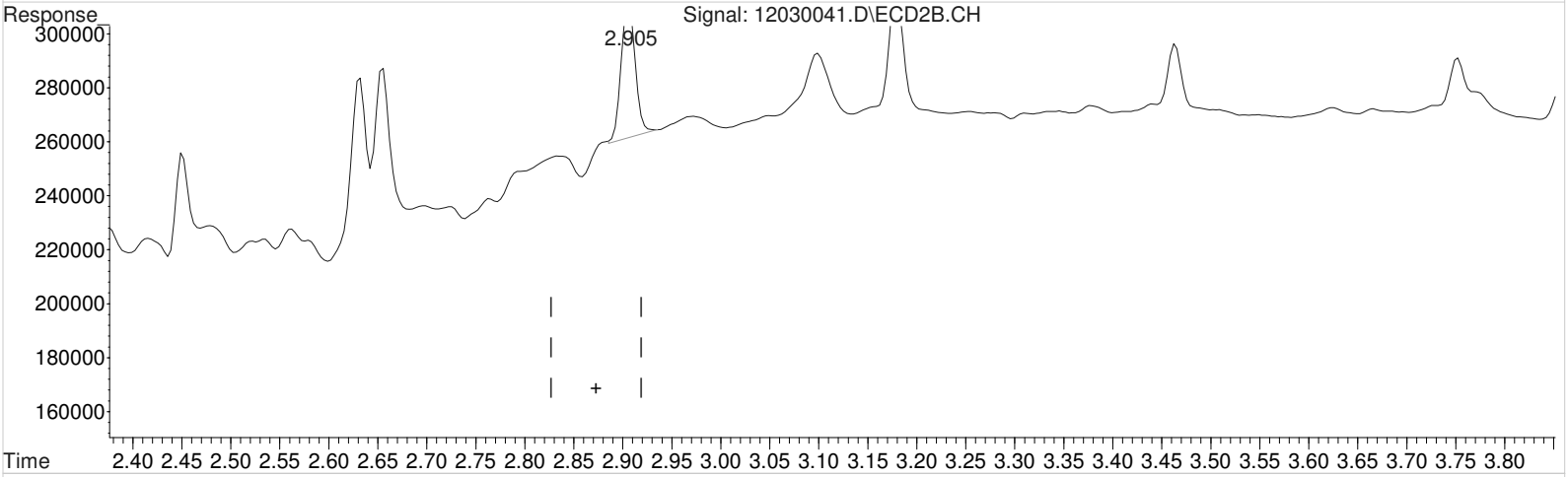
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(1) Dalapon (m)

3.135min 0.508 ppb m

response 12316

Manual Integration:

After

Baseline/Shoulder

12/04/20

(1) Dalapon #2 (m)

2.905min 1.053 ppb m

response 50885

(+) = Expected Retention Time

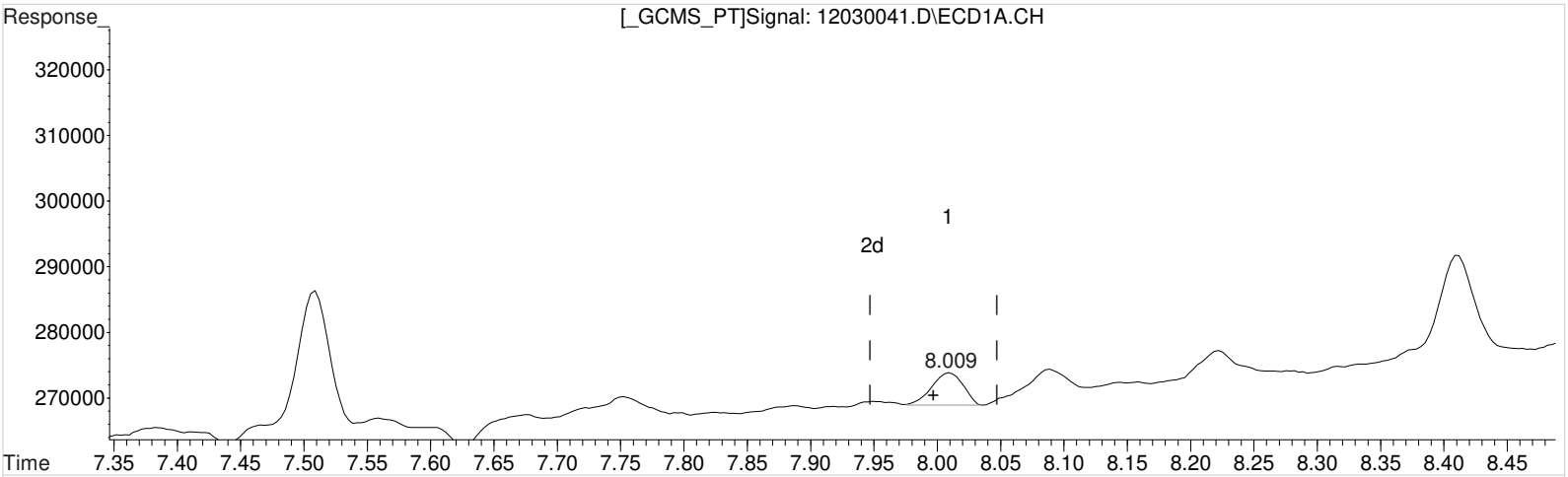
Quantitation Report (Qedit)

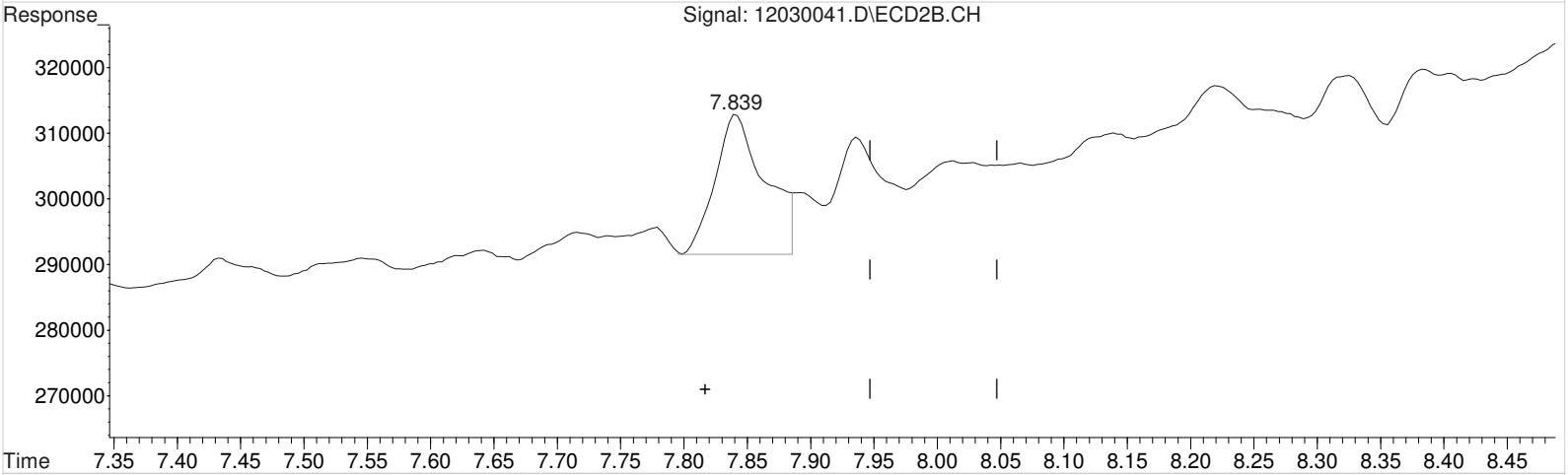
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

8.009min 0.472 ppb

response 8582

Manual Integration:

Before

12/04/20

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

7.839min 1.407 ppb

response 59502

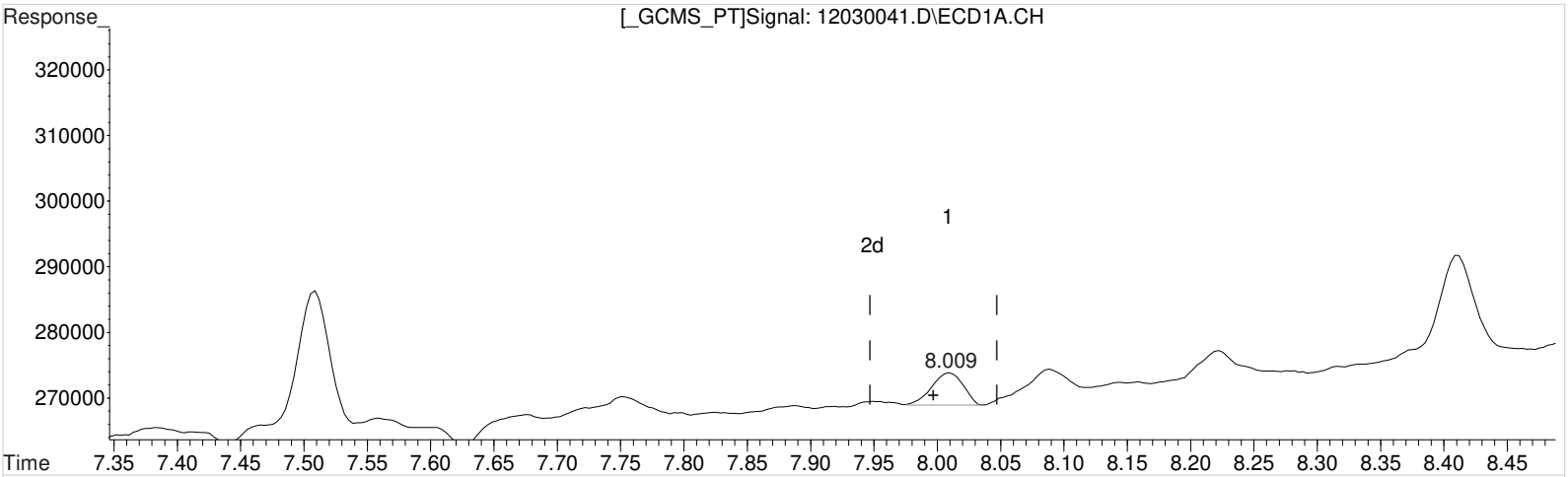
(+) = Expected Retention Time

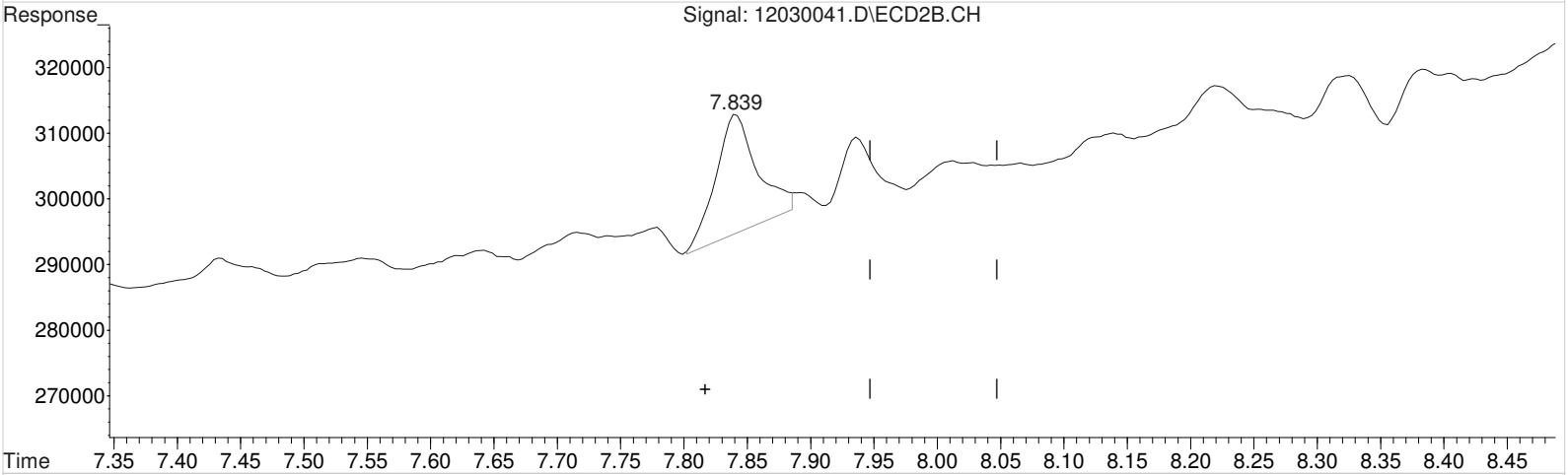
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

8.009min 0.472 ppb

response 8582

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.839min 1.001 ppb m

response 42353

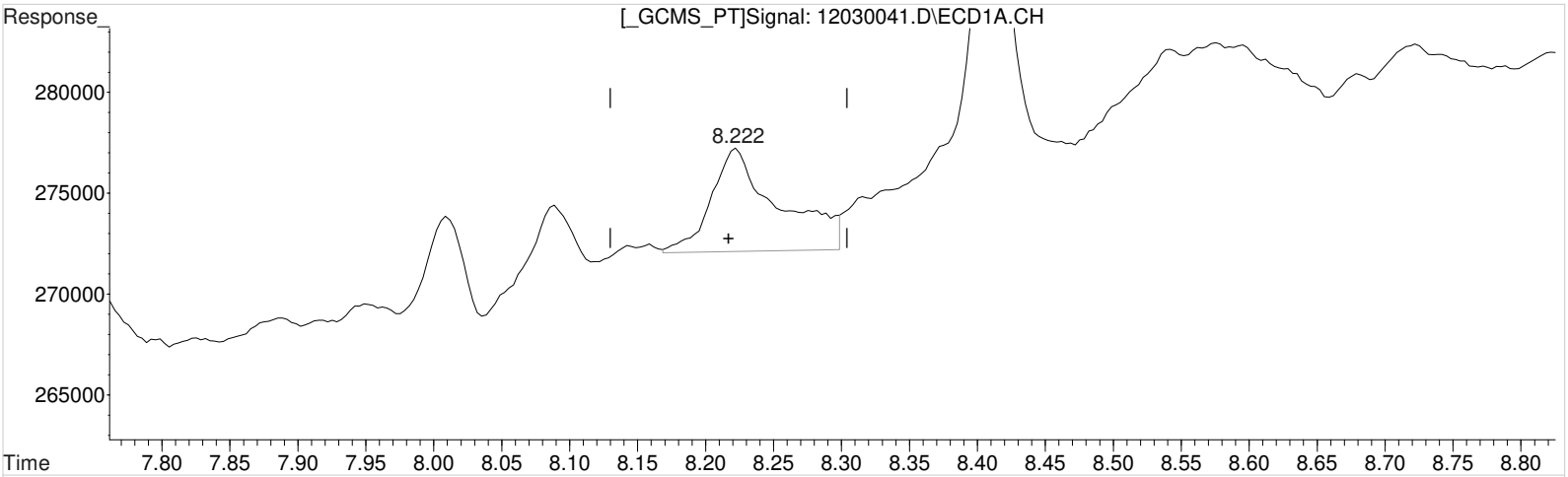
(+) = Expected Retention Time

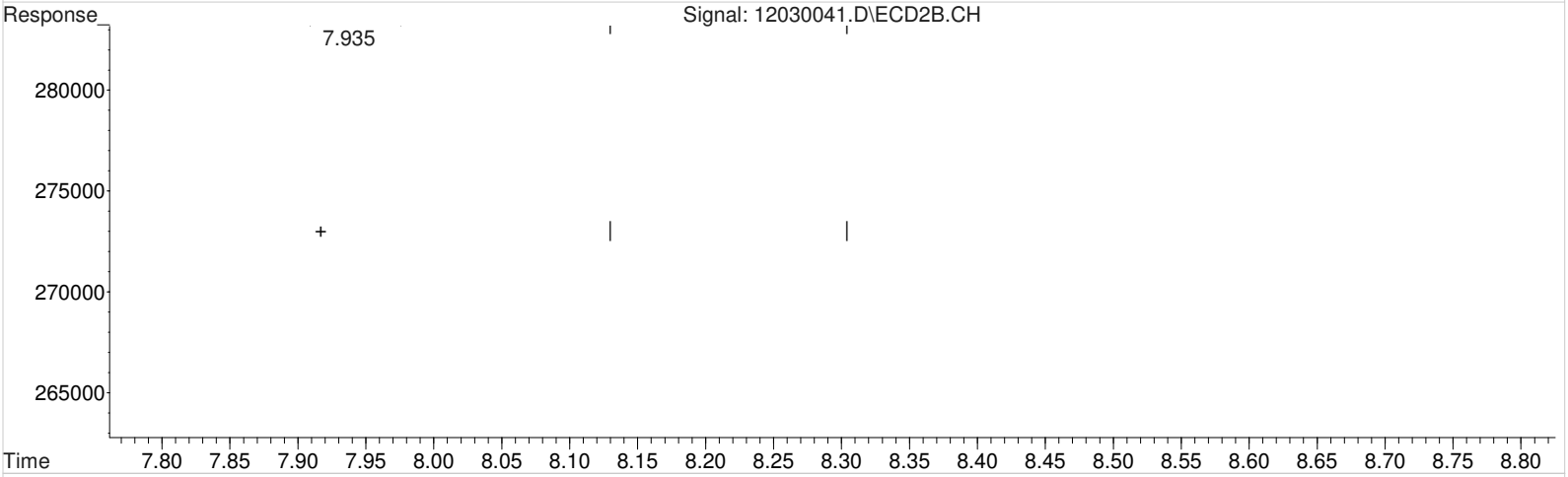
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(3) Dicamba (m)

8.222min 0.254 ppb

response 17726

Manual Integration:

Before

12/04/20

(3) Dicamba #2 (m)

7.935min 0.137 ppb

response 20276

(+) = Expected Retention Time

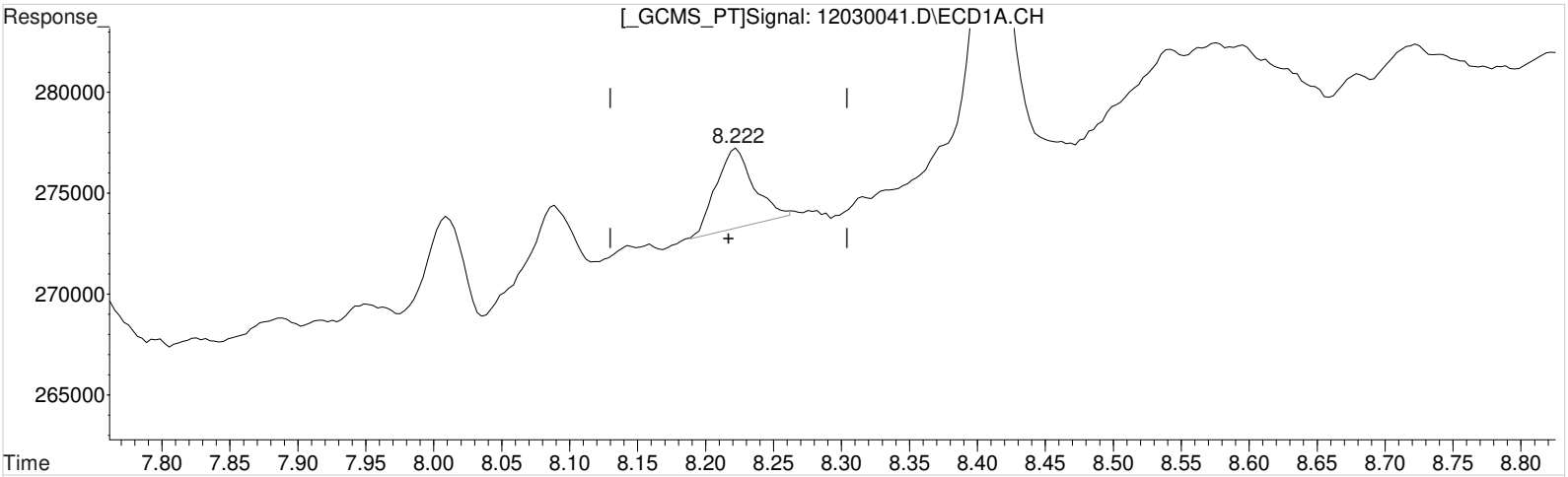
Quantitation Report (Qedit)

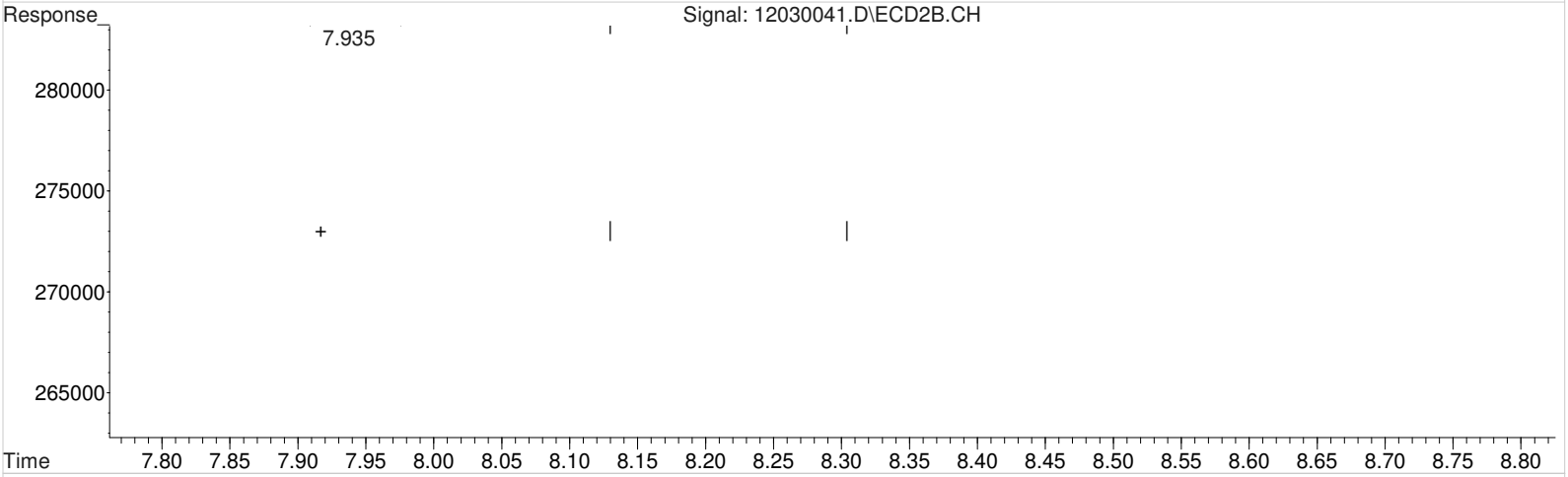
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(3) Dicamba (m)

8.222min 0.111 ppb m

response 7762

Manual Integration:

After

Baseline/Shoulder

12/04/20

(3) Dicamba #2 (m)

7.935min 0.137 ppb

response 20276

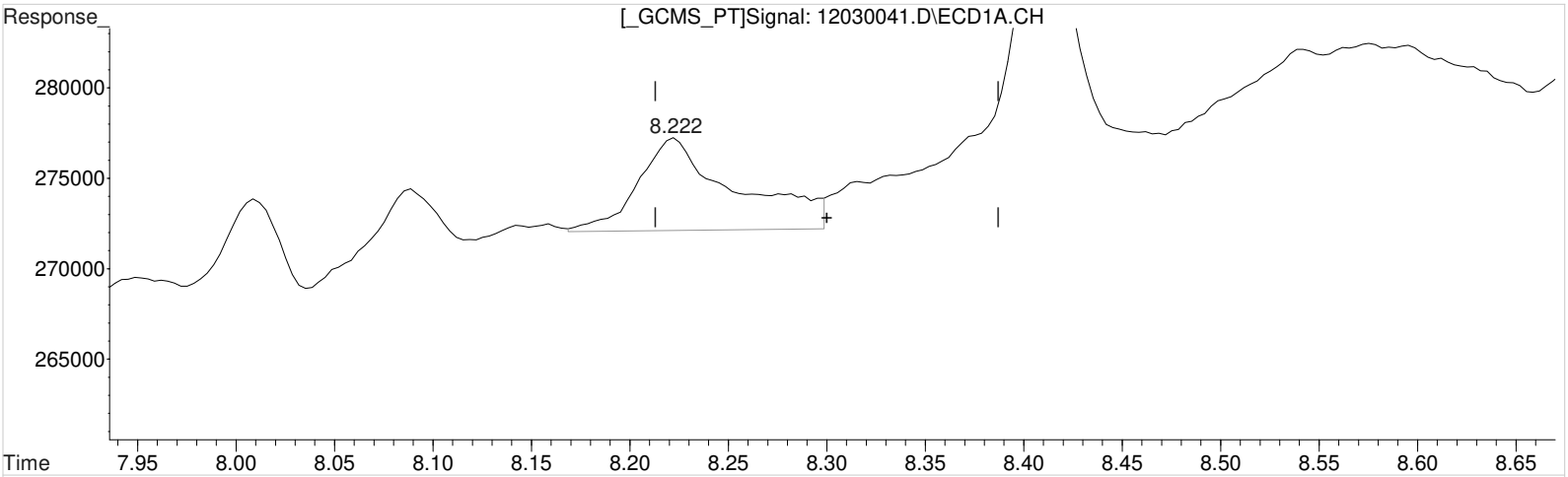
(+) = Expected Retention Time

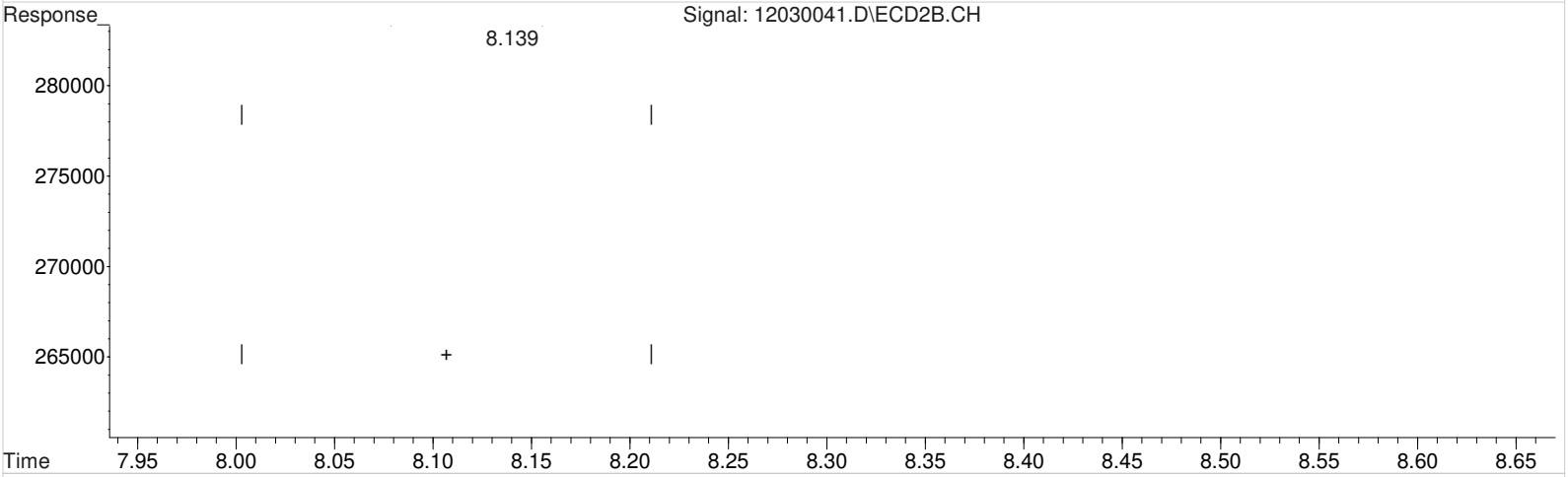
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(4) MCPP (m)

8.222min 890.226 ppb

response 17726

Manual Integration:

Before

12/04/20

(4) MCPP #2 (m)

8.139min -1329.878 ppb

response 12859

(+) = Expected Retention Time

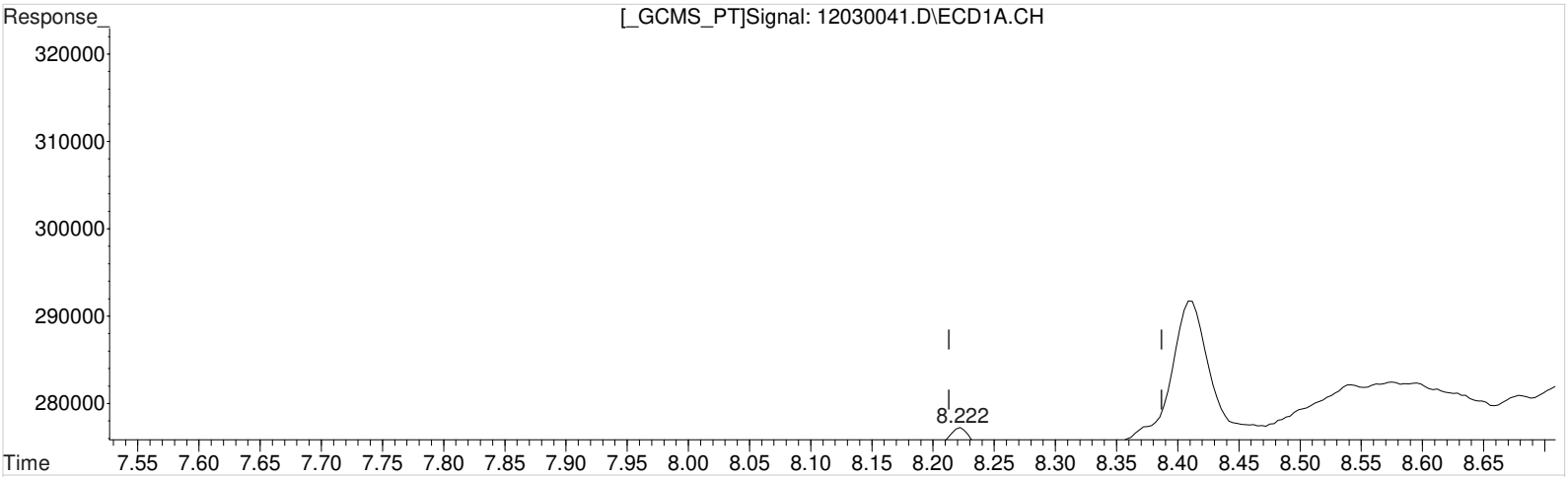
Quantitation Report (Qedit)

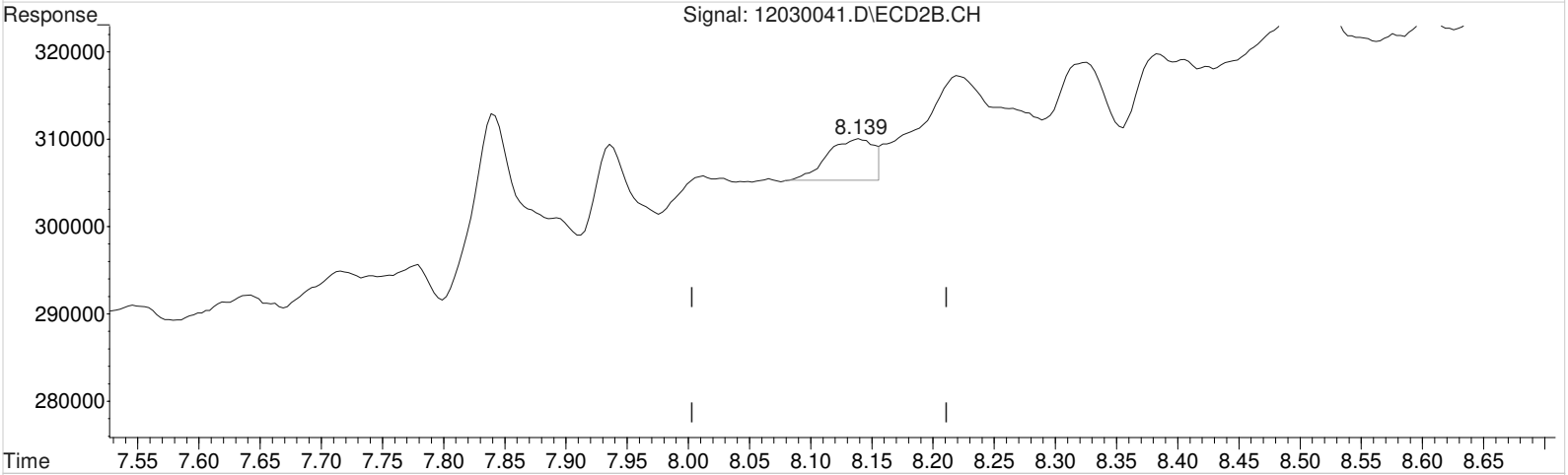
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(4) MCPP (m)

8.222min 688.677 ppb m

response 8360

Manual Integration:

Before

12/04/20

(4) MCPP #2 (m)

8.139min -1329.878 ppb

response 12859

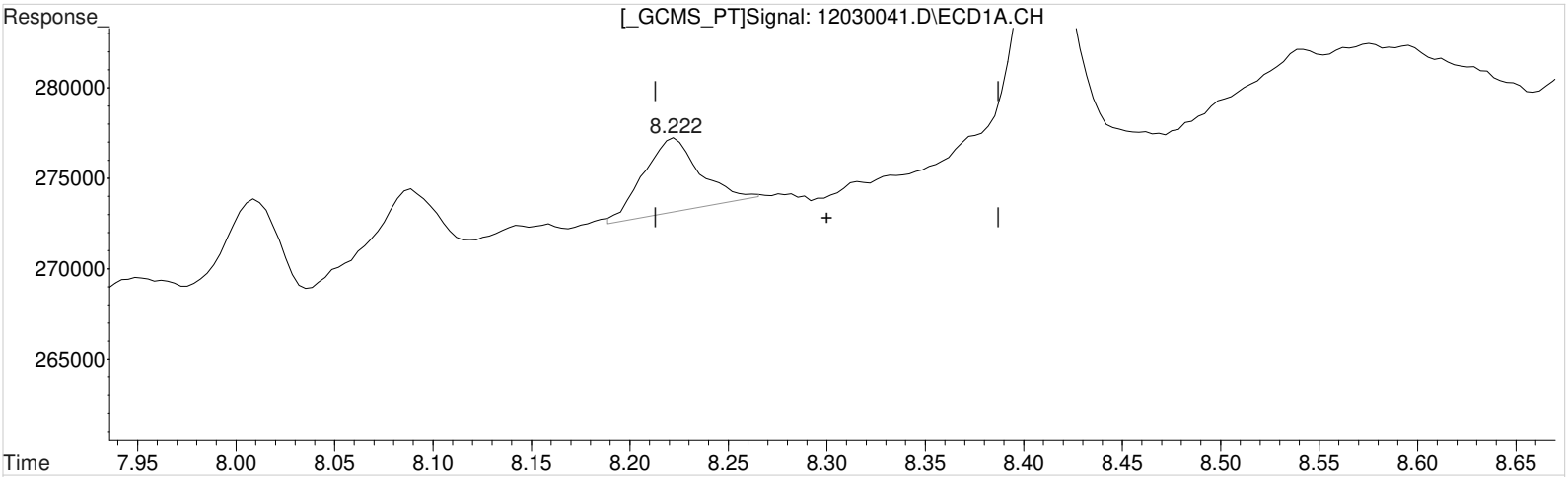
(+) = Expected Retention Time

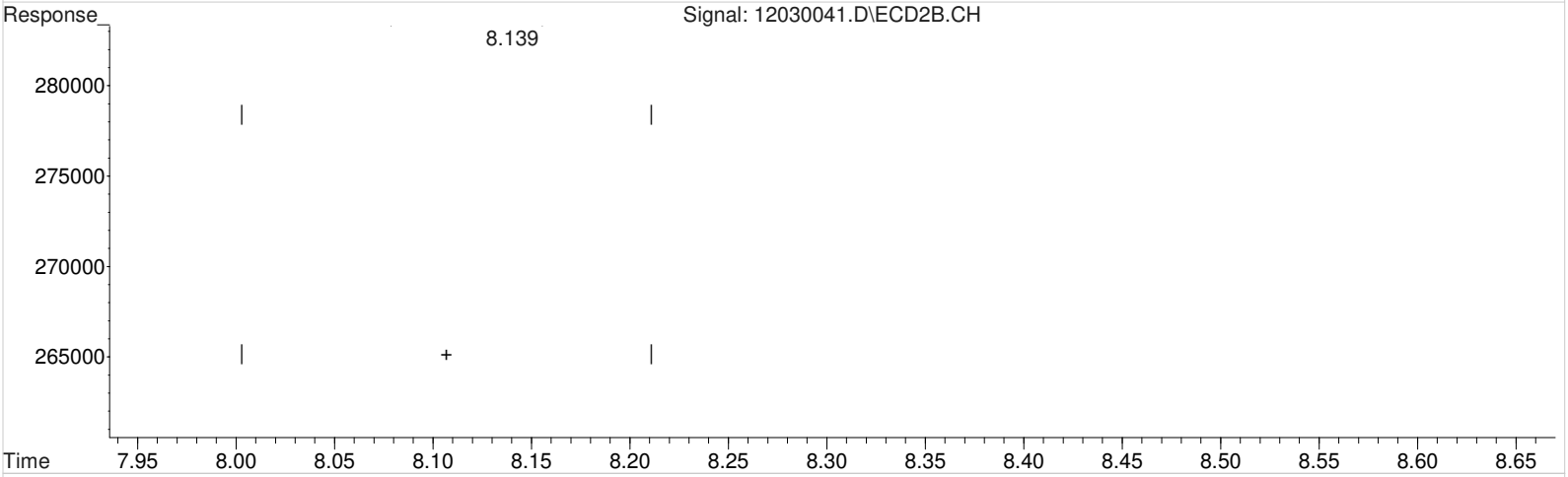
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(4) MCPP (m)

8.222min 688.677 ppb m

response 8360

Manual Integration:

After

Baseline/Shoulder

12/04/20

(4) MCPP #2 (m)

8.139min -1329.878 ppb

response 12859

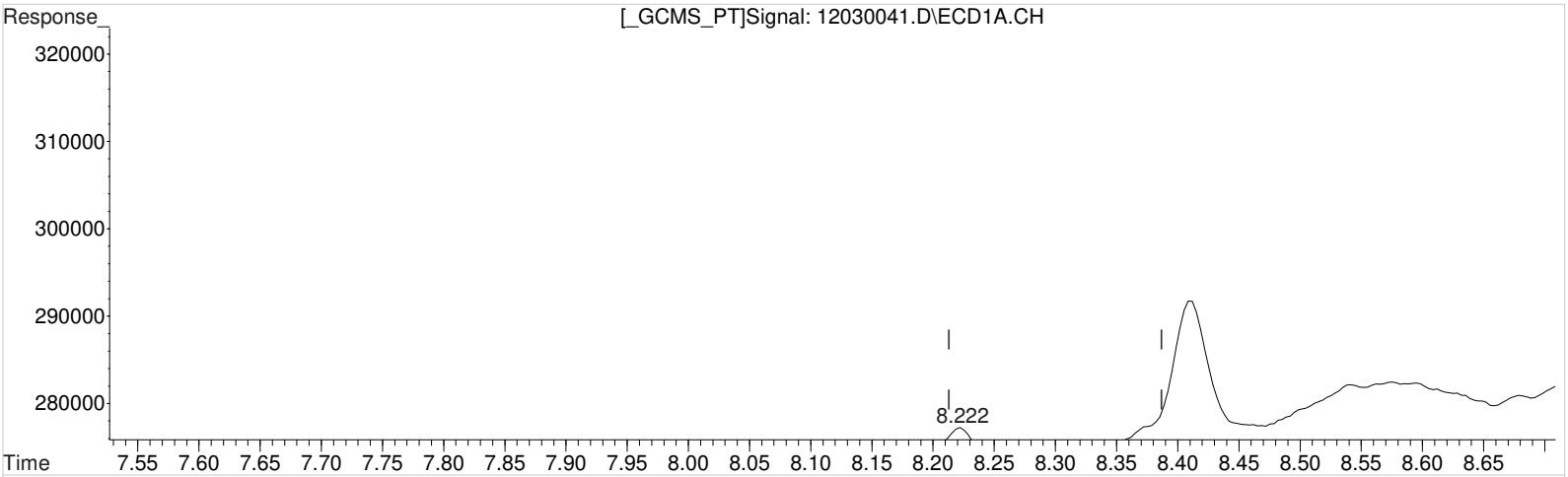
(+) = Expected Retention Time

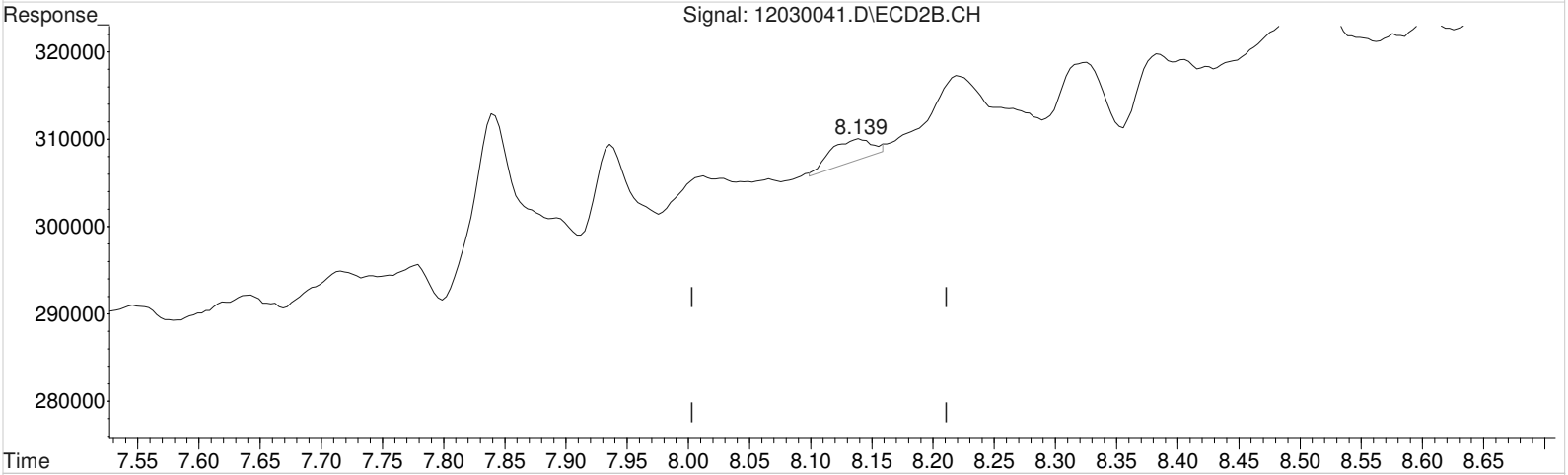
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(4) MCPP (m)

8.222min 688.677 ppb m

response 8360

(4) MCPP #2 (m)

8.139min -1374.463 ppb m

response 6408

Manual Integration:

After

Baseline/Shoulder

12/04/20

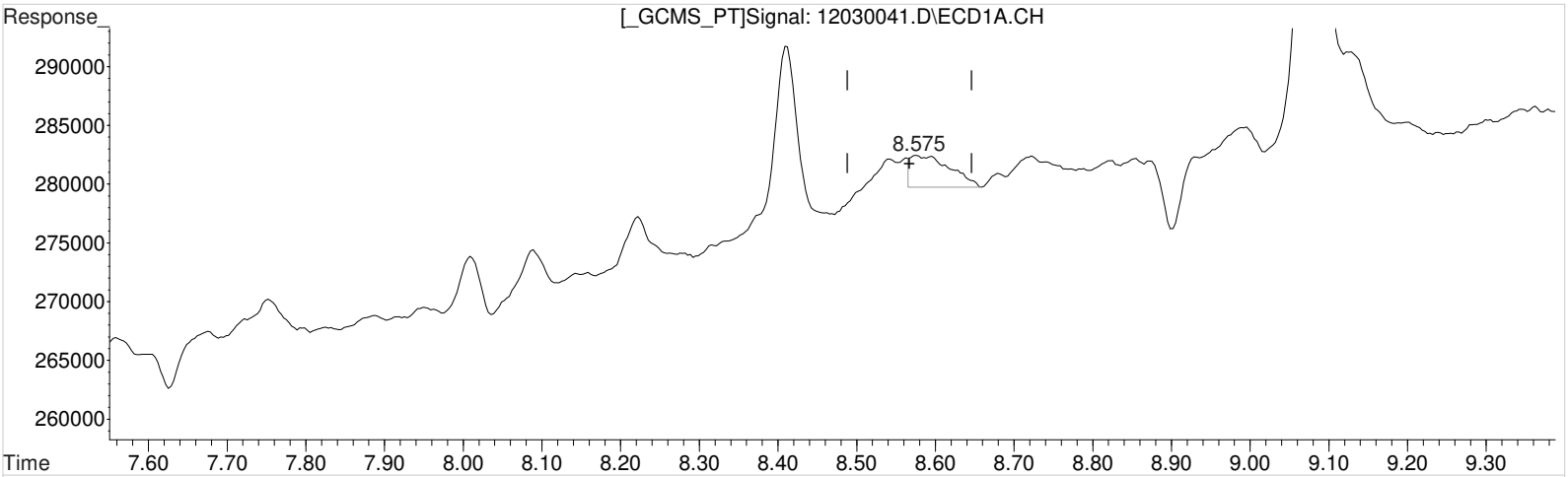
(+) = Expected Retention Time

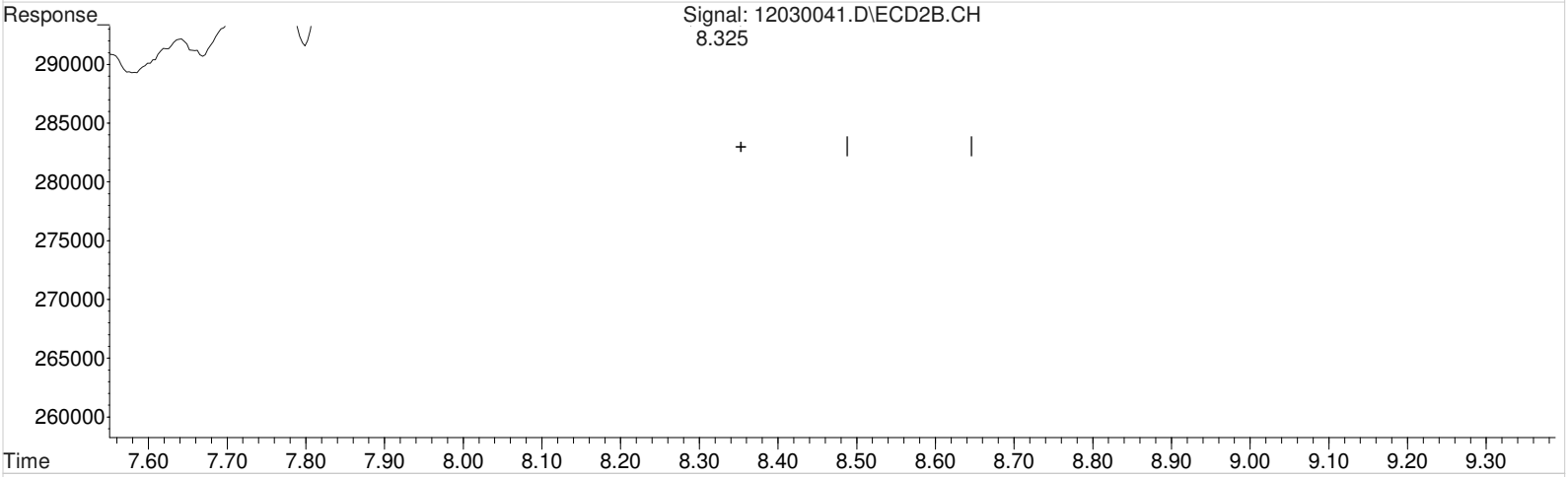
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(5) MCPA (m)

8.575min 158.217 ppb

response 9264

(5) MCPA #2 (m)

8.325min -1790.915 ppb

response 16640

Manual Integration:

Before

12/04/20

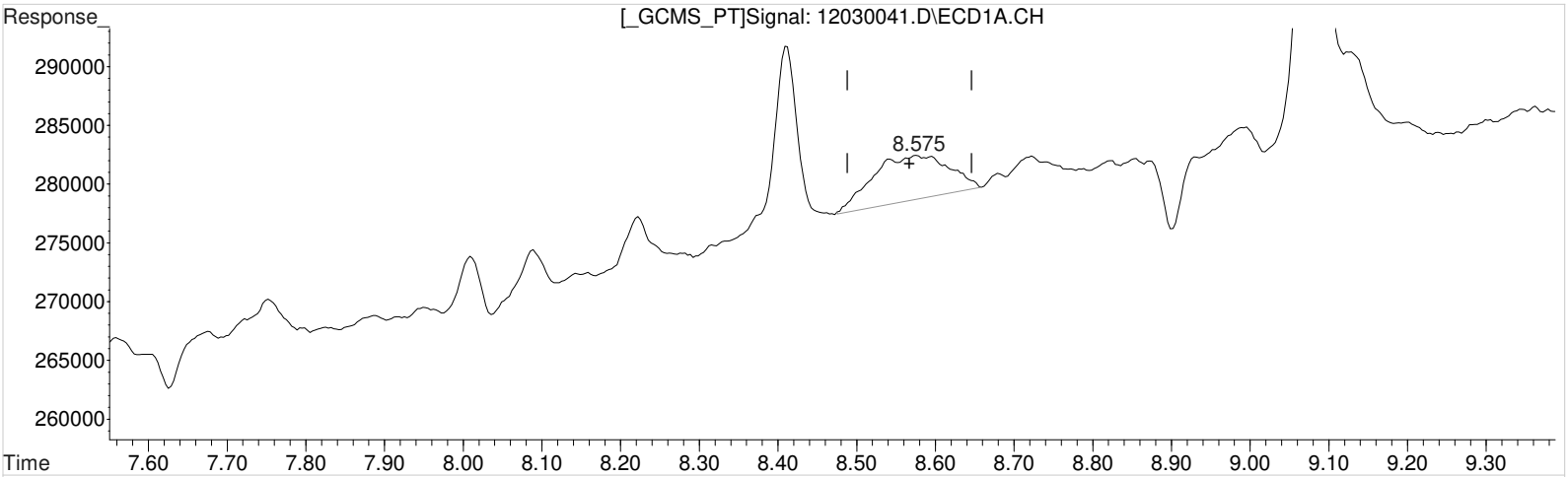
(+) = Expected Retention Time

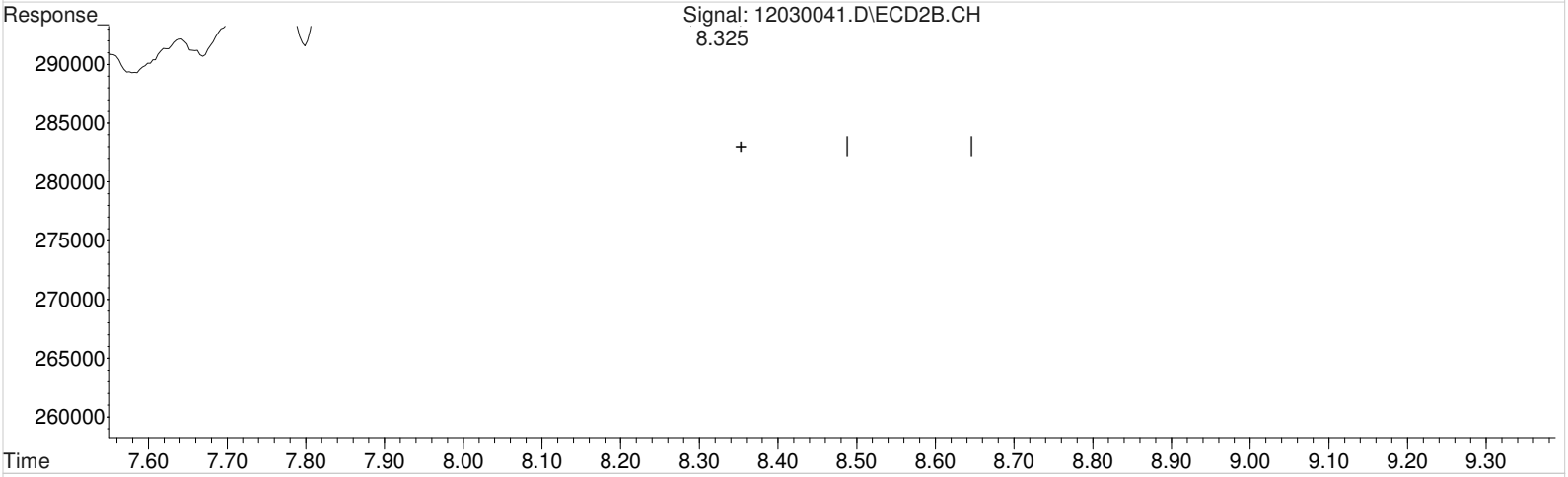
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(5) MCPA (m)

8.575min 441.655 ppb m

response 25860

(5) MCPA #2 (m)

8.325min -1790.915 ppb

response 16640

Manual Integration:

After

Baseline/Shoulder

12/04/20

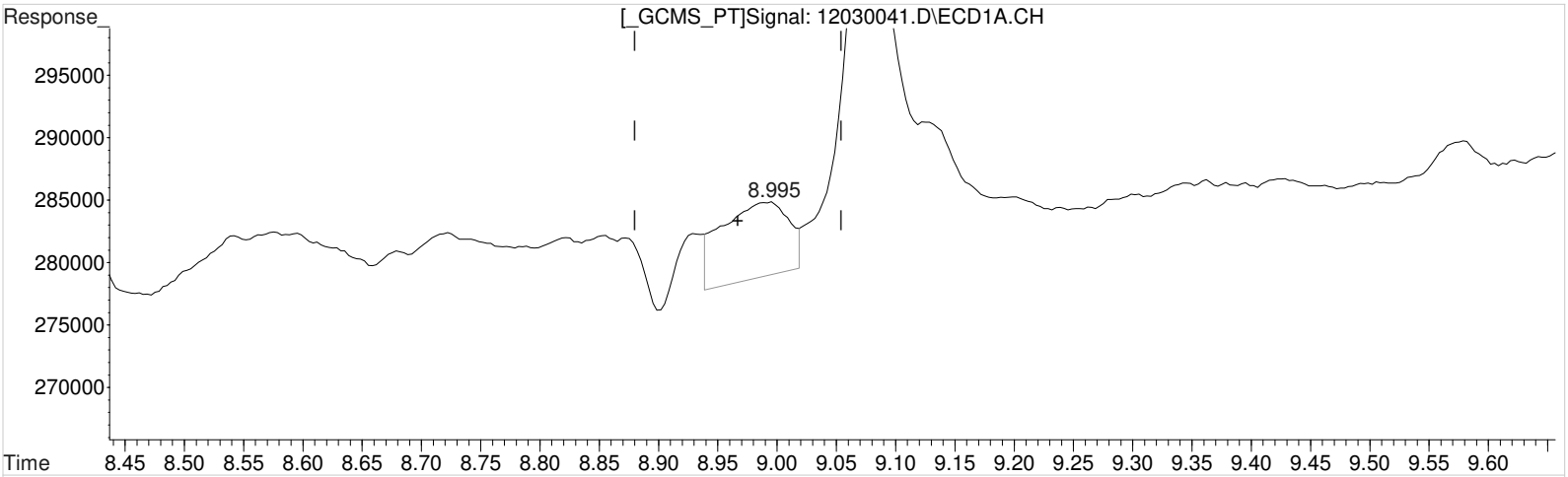
(+) = Expected Retention Time

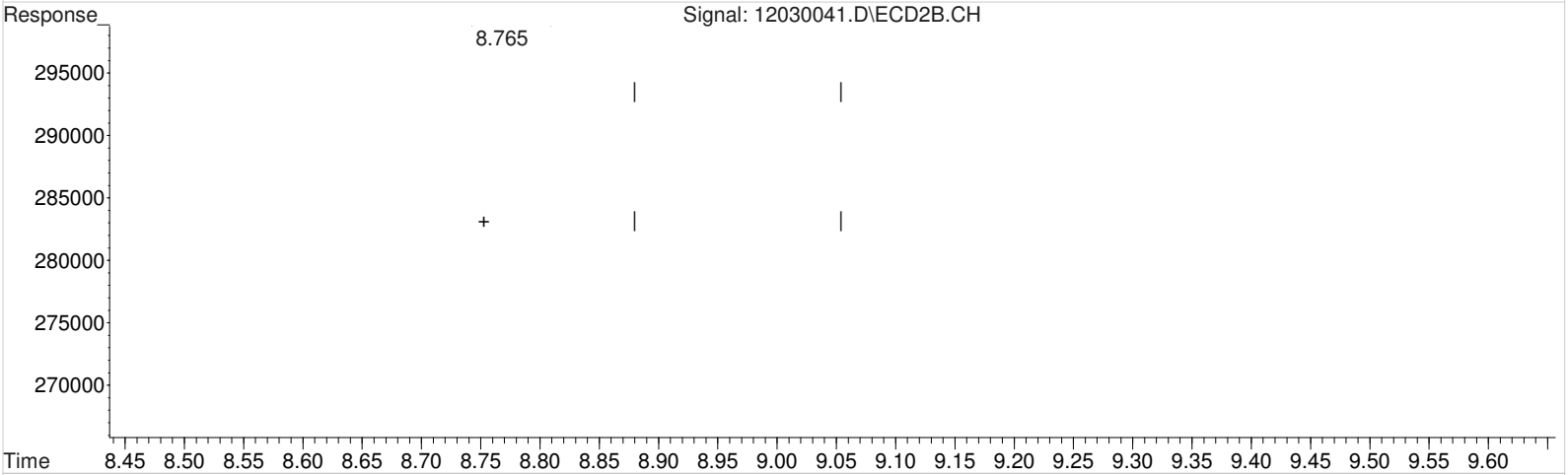
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(6) Dichloroprop (m)

8.995min 1.296 ppb

response 24160

(6) Dichloroprop #2 (m)

8.765min 0.232 ppb

response 9676

Manual Integration:

Before

12/04/20

(+) = Expected Retention Time

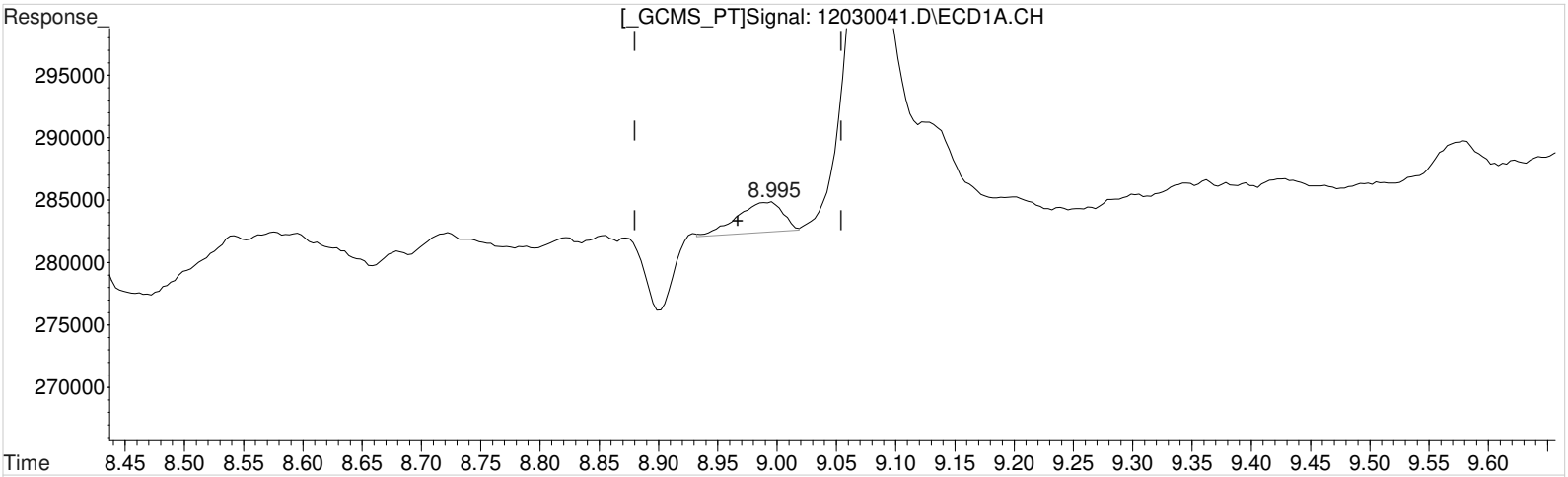
Quantitation Report (Qedit)

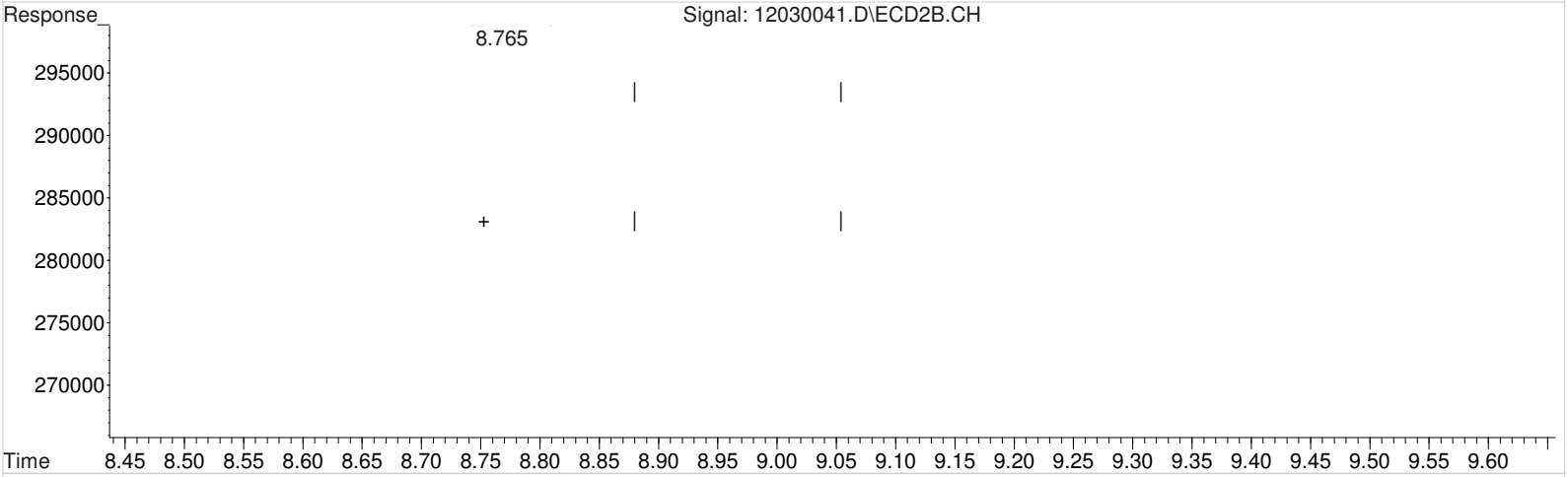
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(6) Dichloroprop (m)

8.995min 0.354 ppb m

response 6606

(6) Dichloroprop #2 (m)

8.765min 0.232 ppb

response 9676

Manual Integration:

After

Baseline/Shoulder

12/04/20

(+) = Expected Retention Time

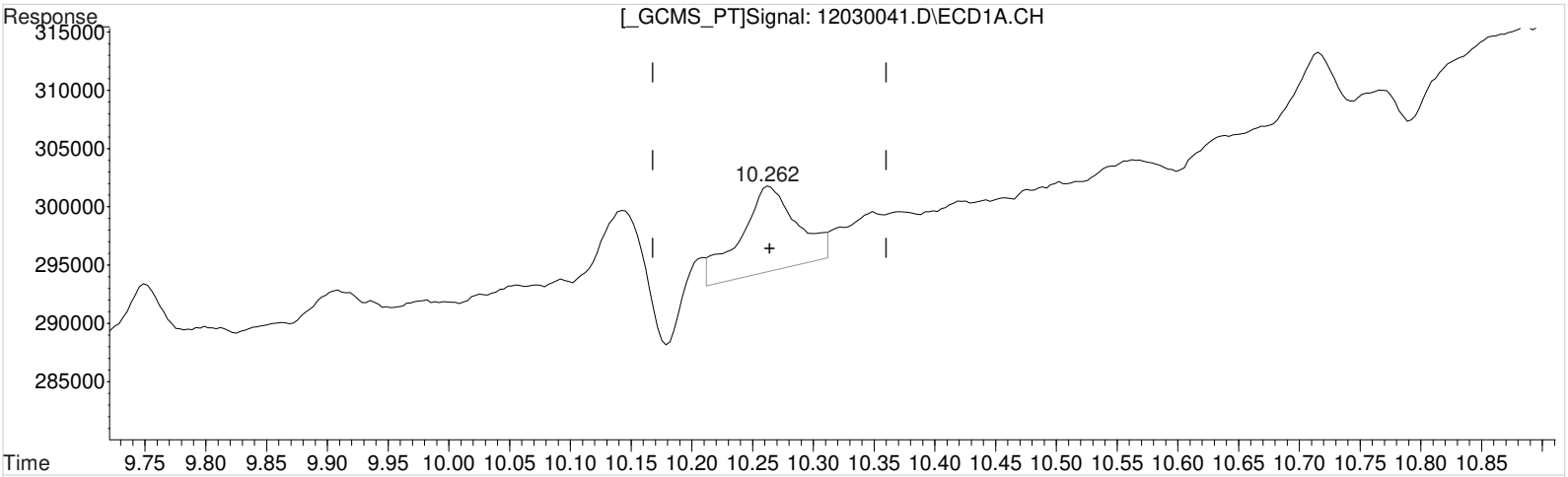
Quantitation Report (Qedit)

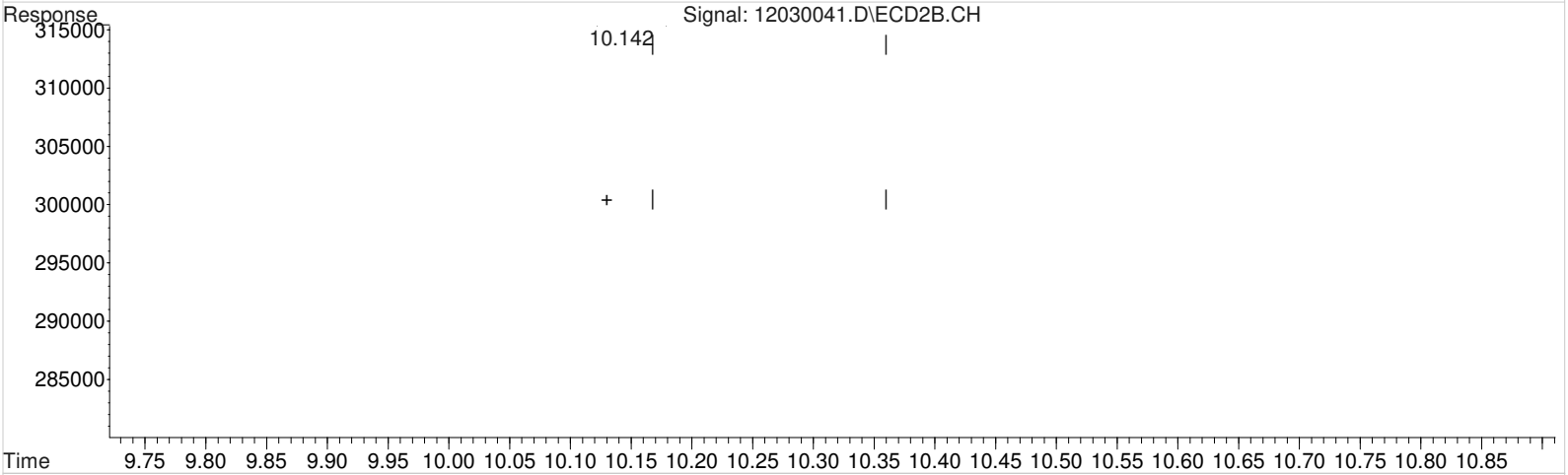
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

10.262min 0.257 ppb

response 24072

Manual Integration:

Before

12/04/20

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

10.142min 0.175 ppb

response 35522

(+) = Expected Retention Time

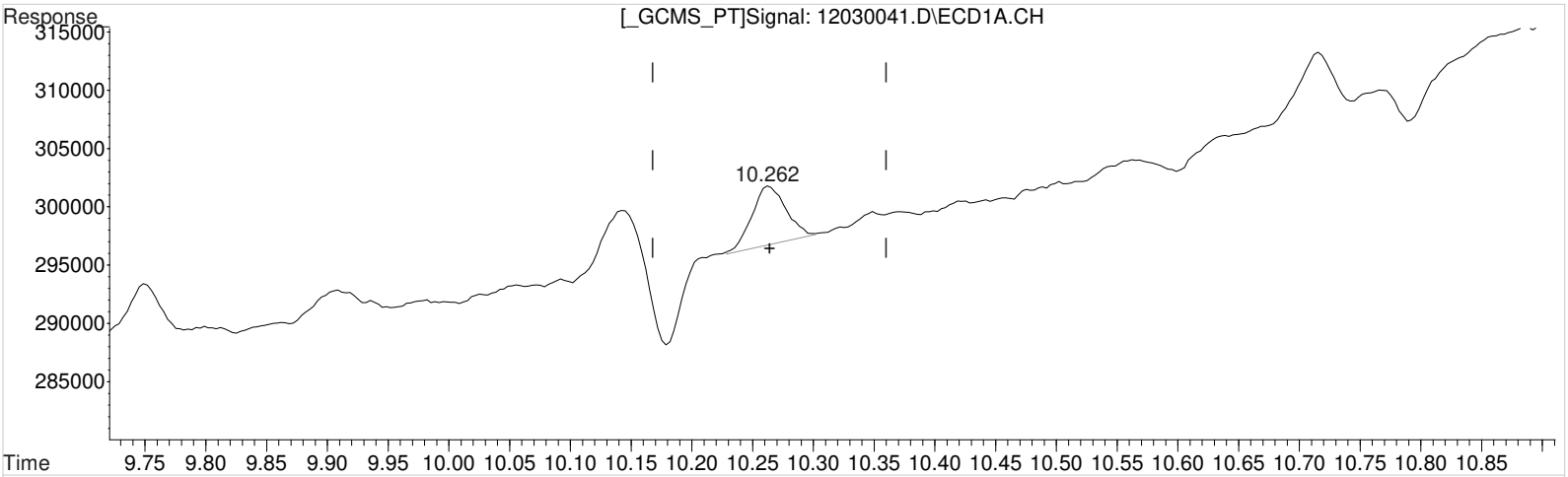
Quantitation Report (Qedit)

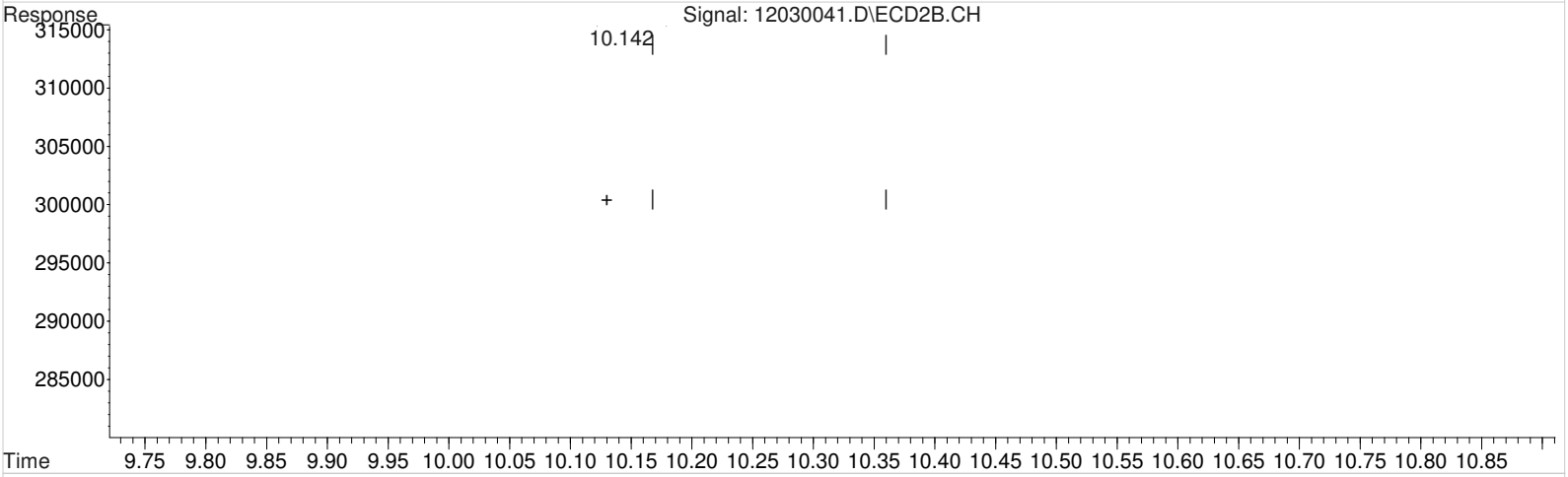
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

10.262min 0.107 ppb m

response 10043

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

10.142min 0.175 ppb

response 35522

(+) = Expected Retention Time

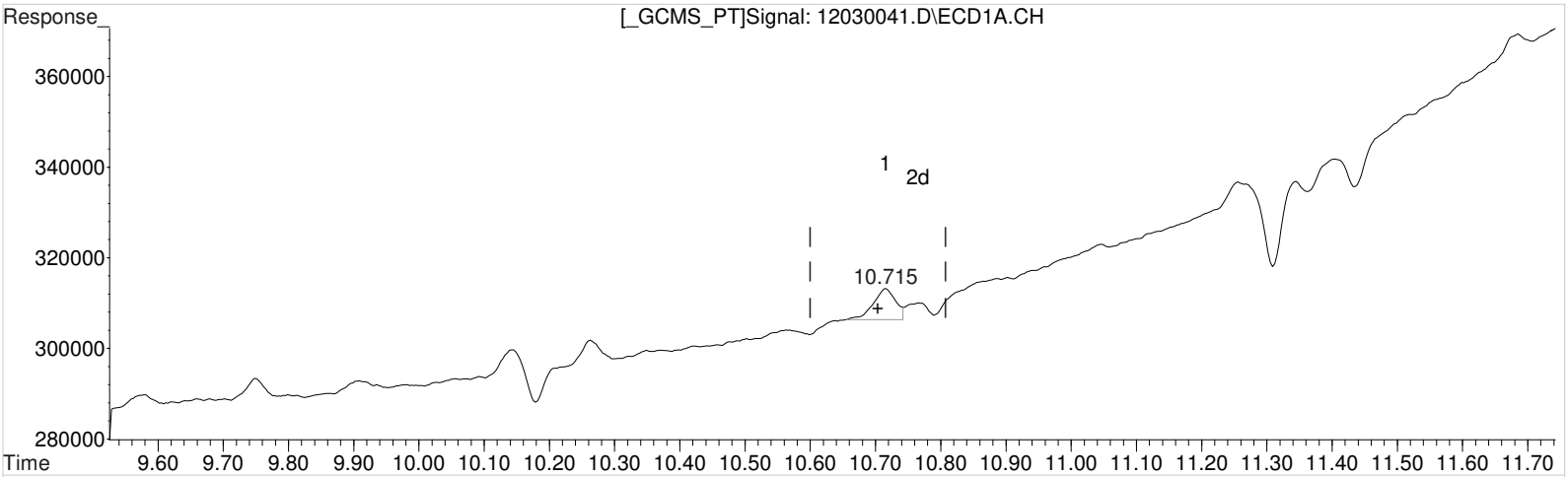
Quantitation Report (Qedit)

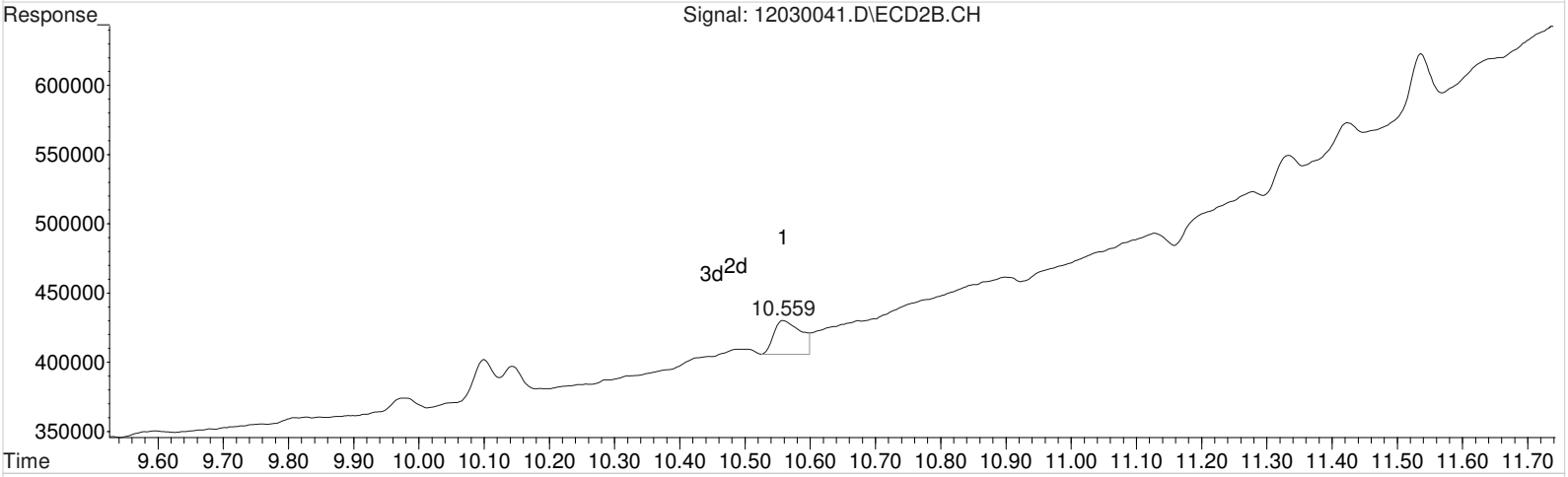
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

10.715min 0.204 ppb

response 16815

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

10.559min 0.379 ppb

response 72497

Manual Integration:

Before

12/04/20

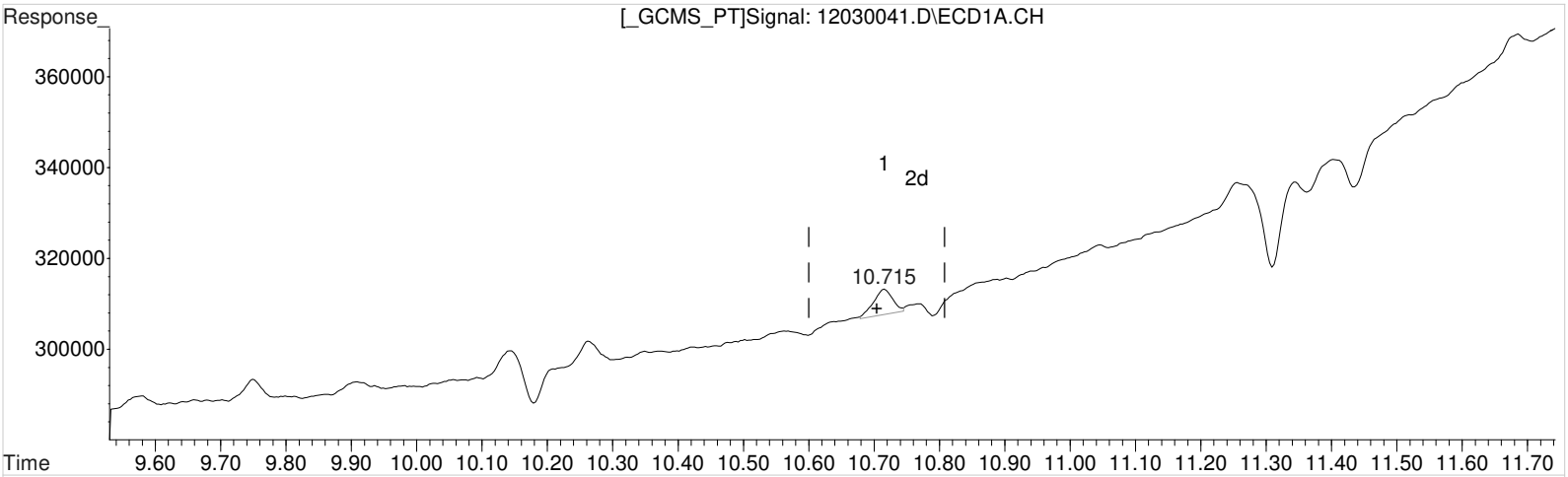
(+) = Expected Retention Time

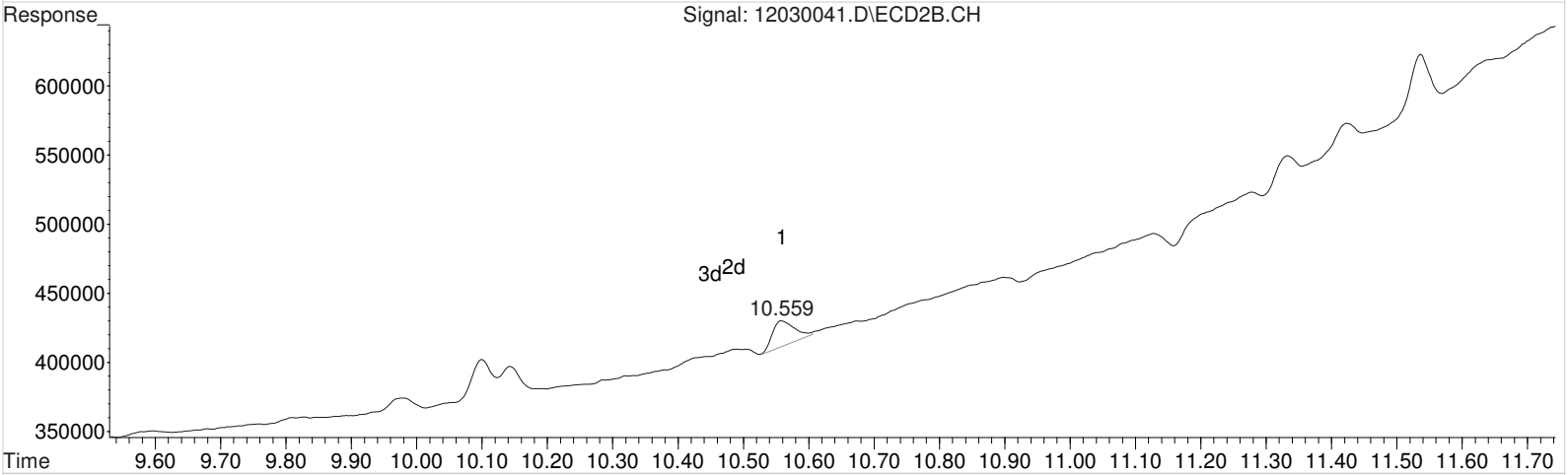
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030041.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 4:05 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 11:08:24 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

10.715min 0.140 ppb m

response 11589

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

10.559min 0.235 ppb m

response 45034

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030053.D\
Lab ID: KQ2019401-04
RunType: CCB
Matrix: Soil

Date Acquired: 12/4/20 08:40:00
Batch ID: 705934
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-T	23		20	CCV+ND
	2,4,5-TP (Silvex)	28		20	
	2,4-D	21		20	
	Dinoseb	28		20	
	MCPA	32		20	
	MCPP	27		20	
Continuing Calibration Recovery (Closing) - RTX-CLP2	2,4-DB	-21		20	
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-T	23		20	
	2,4,5-TP (Silvex)	25		20	
	2,4-D	24		20	
	Dichlorprop	22		20	
	Dinoseb	30		20	
	MCPA	37		20	
	MCPP	31		20	

Primary Review: _____

Printed: 12/8/20 17:31
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 12/07/20
2nd SM 12/08/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030053.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 08:40:00	**Vial:**	6
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019401-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
Analysis	8151A	**Prep Method:**			
		Prep Date:			

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.01 +0.02	7.84 +0.01	9060	41432	0.498	0.980				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.14	8702	36670	0.093	0.181 CCV	0.16U	0.30U	2.4 U	Y
2,4-D	9.35 +0.03	9.05 -0.02	4867	257754	0.229	5.034 CCV	0.38U	8.4J	7.7 U	Y

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

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

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

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

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1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030053.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 08:40:00	**Vial:**	8
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019401-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	8.01 +0.02	7.84 +0.01	9060	41432	0.498	0.980				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	10.71 +0.01	10.55 +0.01	11149	48183	0.135	0.252 CCV	0.23U	0.42U	4.0 U	Y
2,4,5-TP (Silvex)	10.26	10.14	8702	36670	0.093	0.181 CCV	0.16U	0.30U	2.4 U	Y
2,4-D	9.35 +0.03	9.05 -0.02	4867	257754	0.229	5.034 CCV	0.38U	8.4J	7.7 U	Y
2,4-DB	11.26 -0.02	11.13 -0.05	38709	13570	3.773 CCV	0.468	6.3J	0.78U	5.4 U	Y
Dalapon	3.14 +0.01	2.91 +0.03	9636	38590	0.397	0.799	0.66U	1.3U	5.5 U	Y
Dicamba	8.22 +0.01	7.93	10245	15988	0.147	0.108	0.25U	0.18U	4.3 U	Y
Dichlorprop	9.00 +0.04	8.76	6031	8864	0.323	0.212 CCV	0.54U	0.35U	3.4 U	Y
Dinoseb	11.68	11.33 +0.01	8402	64076	0.136	0.469 CCV	0.23U	0.78U	2.7 U	Y
MCPA	8.55 -0.01	0.00	24417	14021	417.010	0.000 CCV	700J	0U	320 U	Y
MCPP	8.34 +0.04	0.00	2277	5058	557.776	0.000 CCV	930J	0U	460 U	Y

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

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

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

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

Printed: 12/8/20 17:31
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:58:52 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...	8.005	7.839	9060	41432	0.498	0.980m#
		Target Compounds						
1)	m	Dalapon	3.135	2.905f	9636	38590	0.397m	0.799m#
3)	m	Dicamba	8.218	7.932	10245	15988	0.147m	0.108 #
4)	m	MCPP	8.335	8.125	2277	5058	557.776	N.D. #
5)	m	MCPA	8.552	8.379	24417	14021	417.010m	N.D. m#
6)	m	Dichloroprop	8.995	8.762	6031	8864	0.323m	0.212 #
7)	m	2,4-D	9.352	9.045	4867	257754	0.229	5.034 #
8)	m	2,4,5-TP ...	10.258	10.139	8702	36670	0.093m	0.181 #
9)	m	2,4,5-T	10.712	10.552	11149	48183	0.135	0.252 #
10)	m	2,4-DB	11.255	11.129	38709	13570	3.773m	0.468m#
11)	m	Dinoseb	11.678	11.329	8402	64076	0.136m	0.469 #

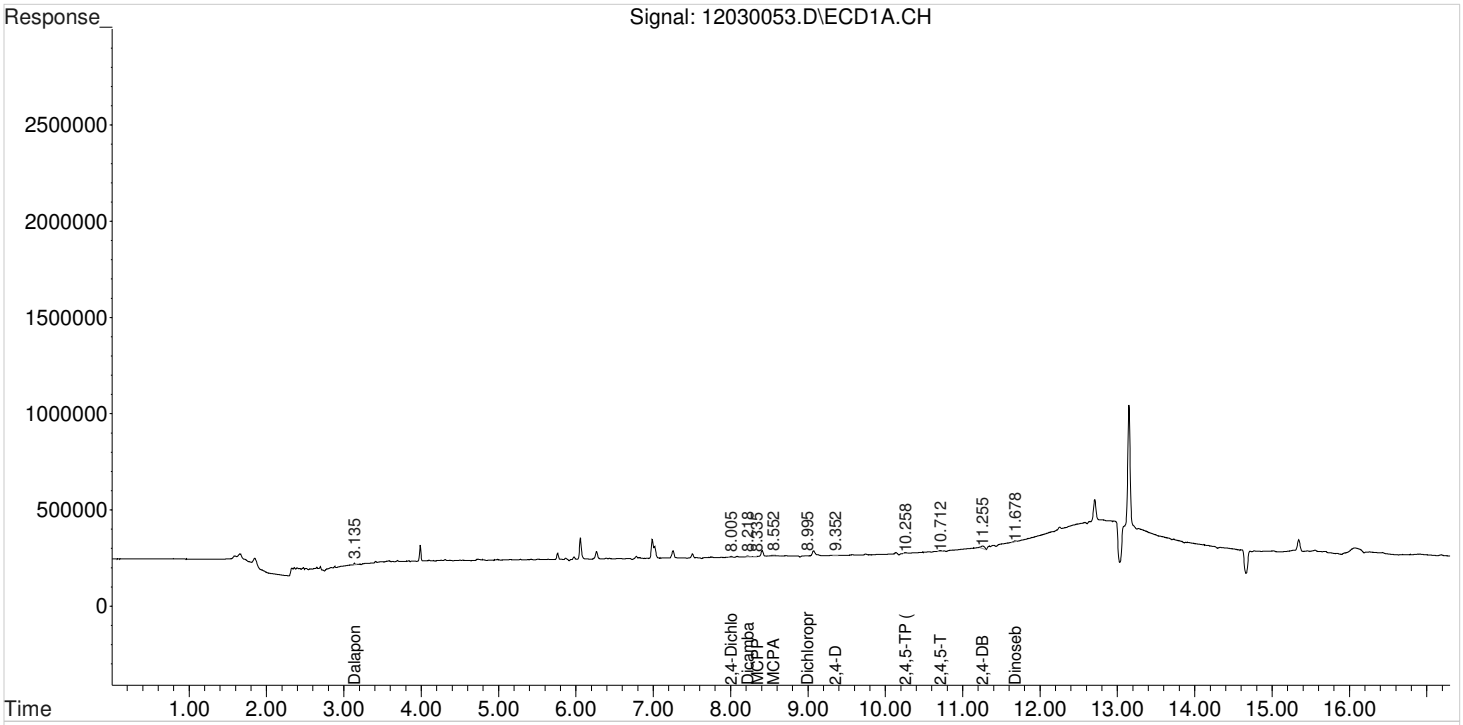
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

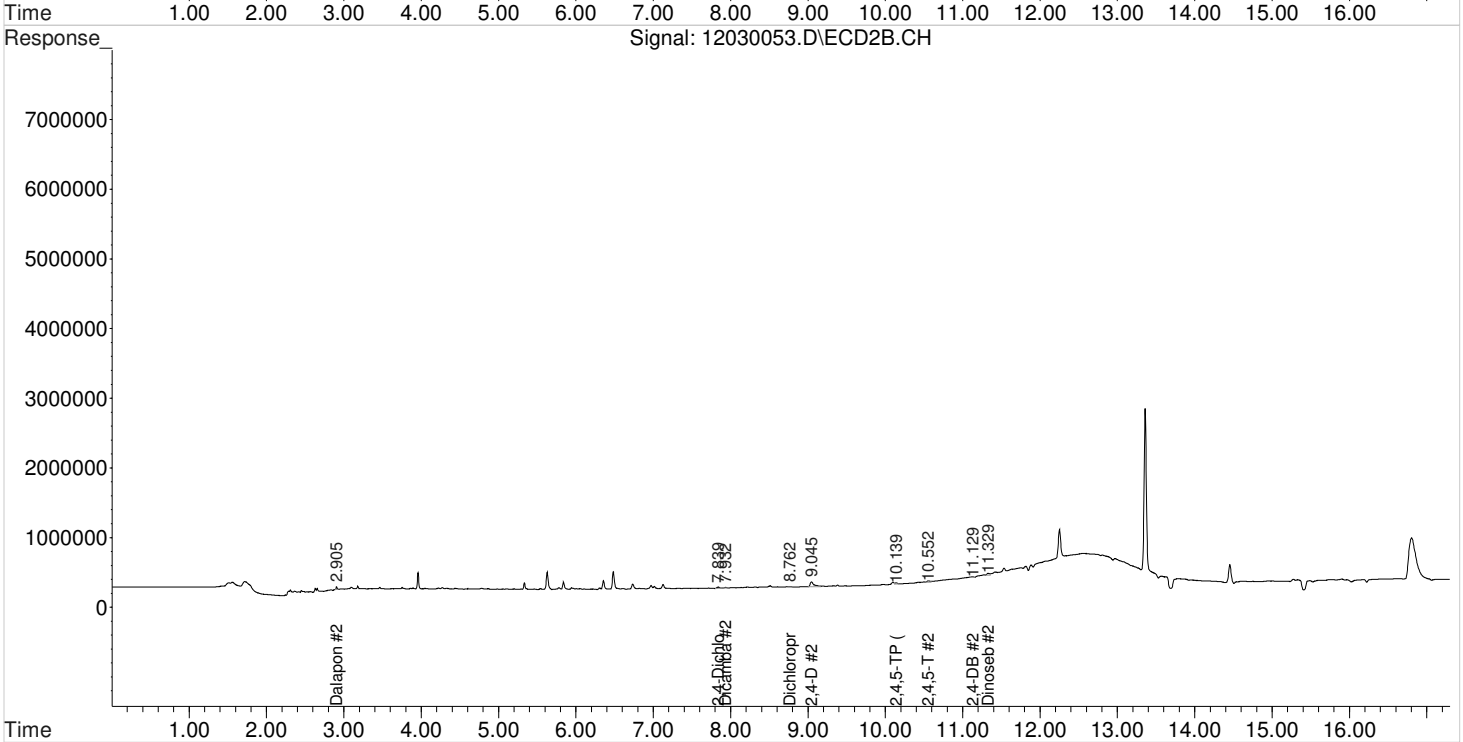
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:58:52 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





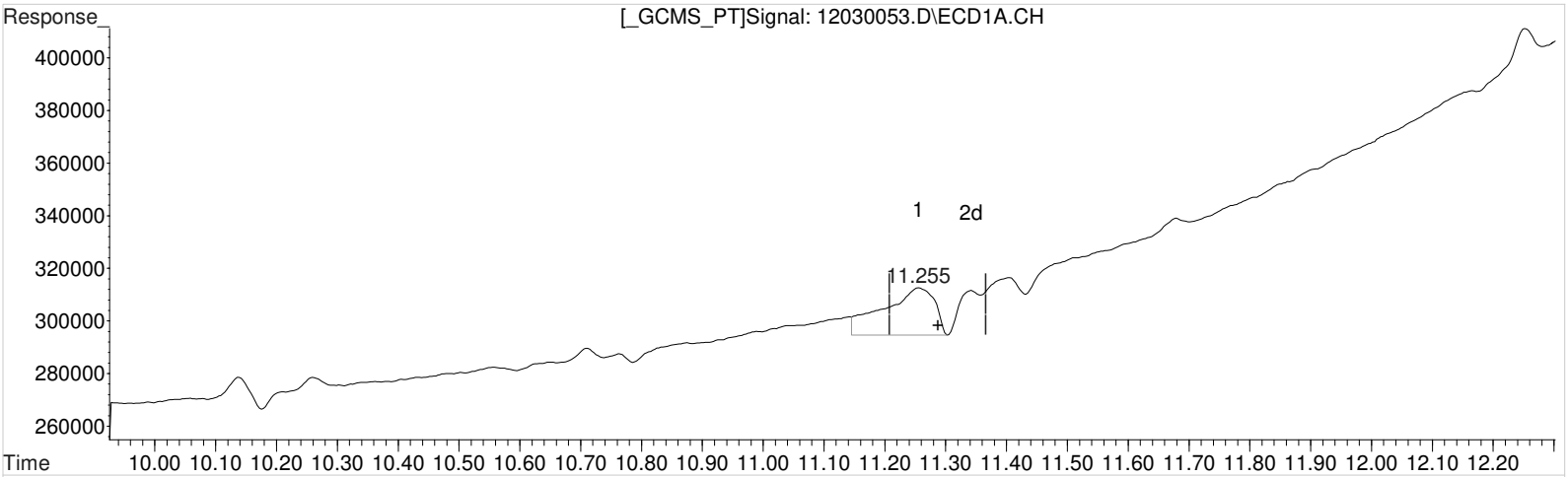
Quantitation Report (Qedit)

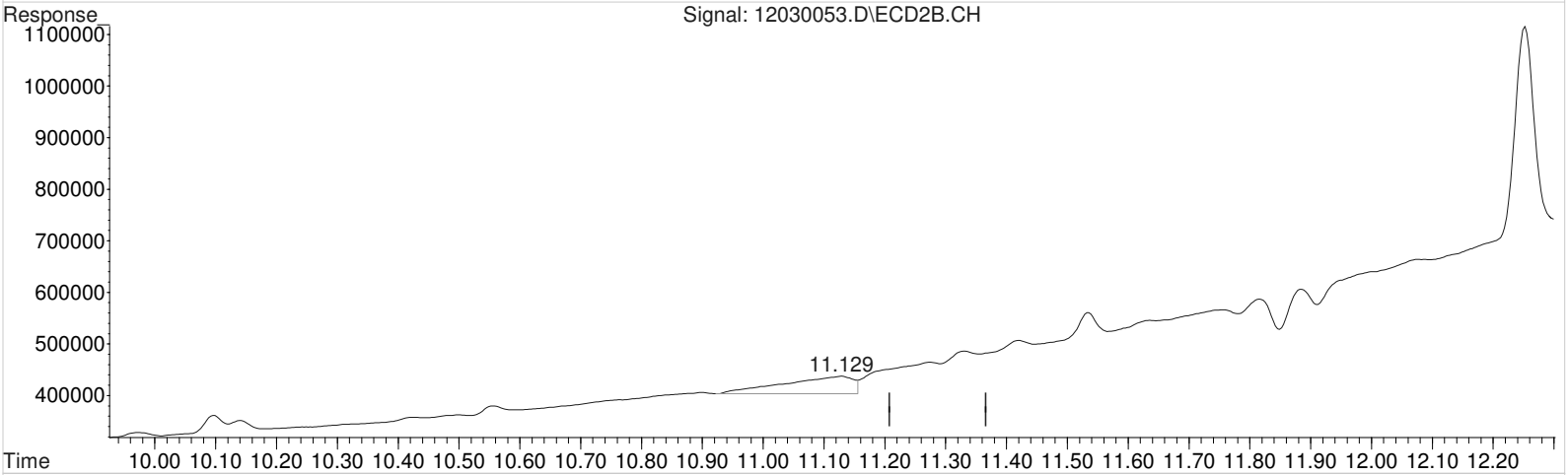
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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)

11.255min 10.239 ppb

response 105050

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

11.129min 9.448 ppb

response 274149

Manual Integration:

Before

12/04/20

(+) = Expected Retention Time

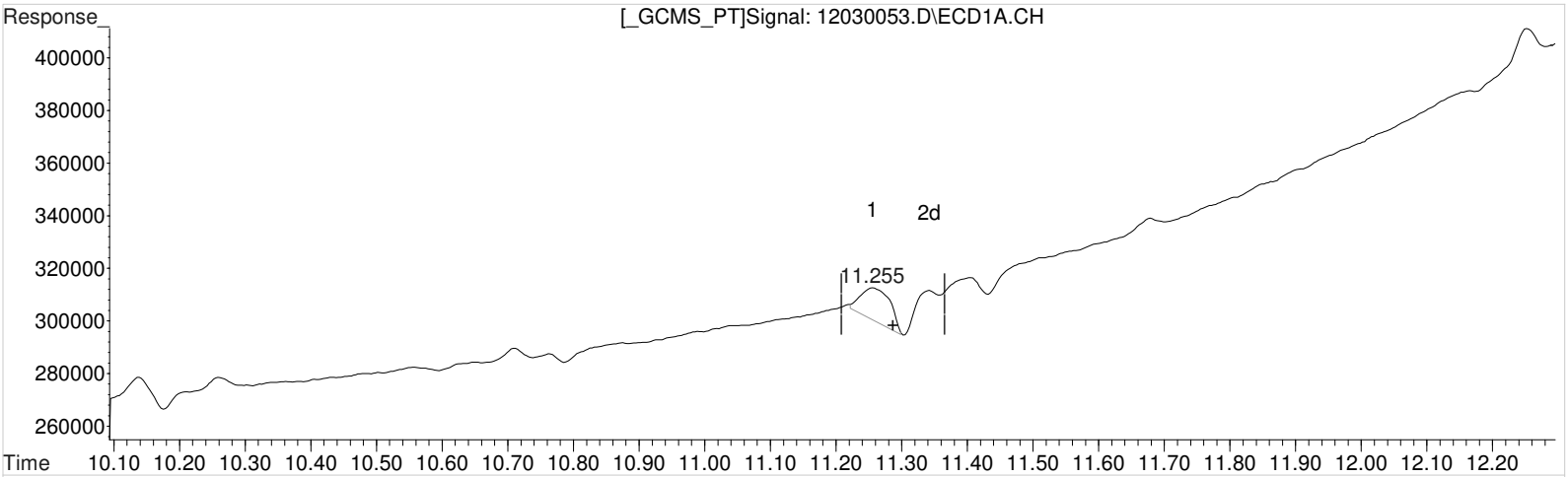
Quantitation Report (Qedit)

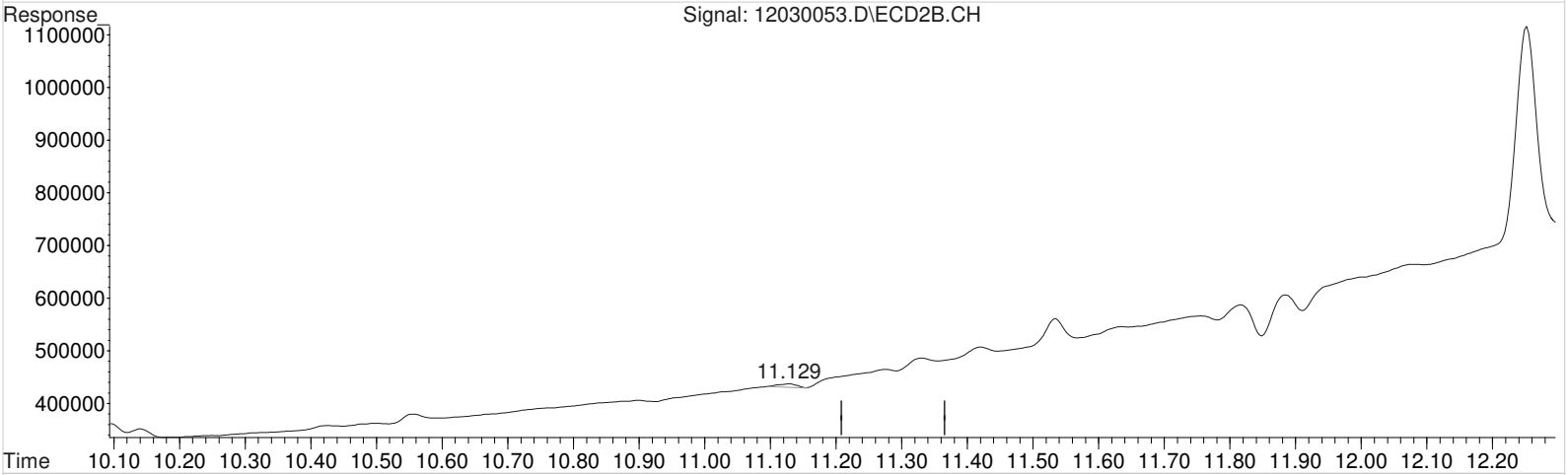
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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)

11.255min 3.773 ppb m

response 38709

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

11.129min 0.468 ppb m

response 13570

Manual Integration:

After

Baseline/Shoulder

12/04/20

(+) = Expected Retention Time

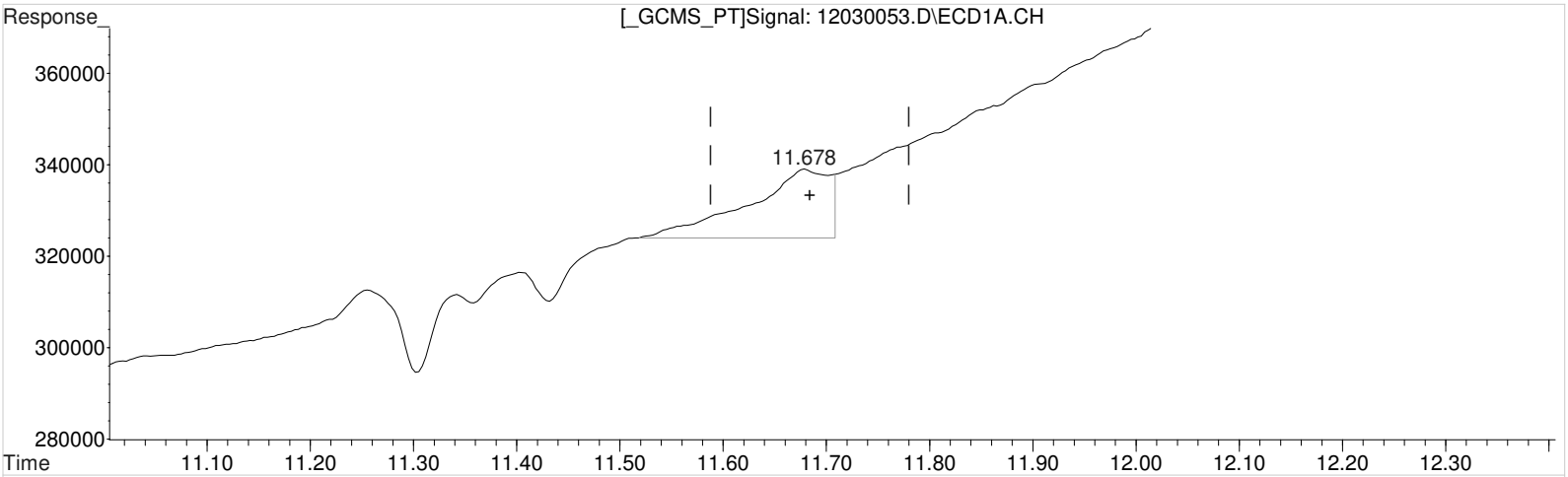
Quantitation Report (Qedit)

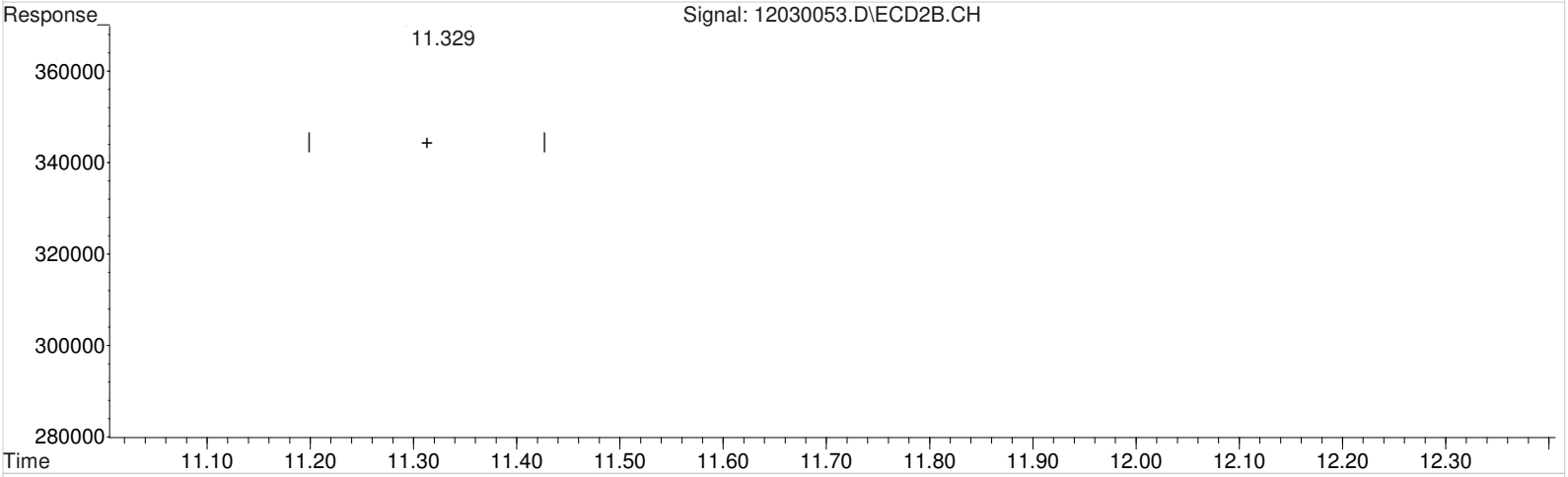
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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)

11.678min 1.347 ppb

response 83319

Manual Integration:

Before

12/04/20

(11) Dinoseb #2 (m)

11.329min 0.469 ppb

response 64076

(+) = Expected Retention Time

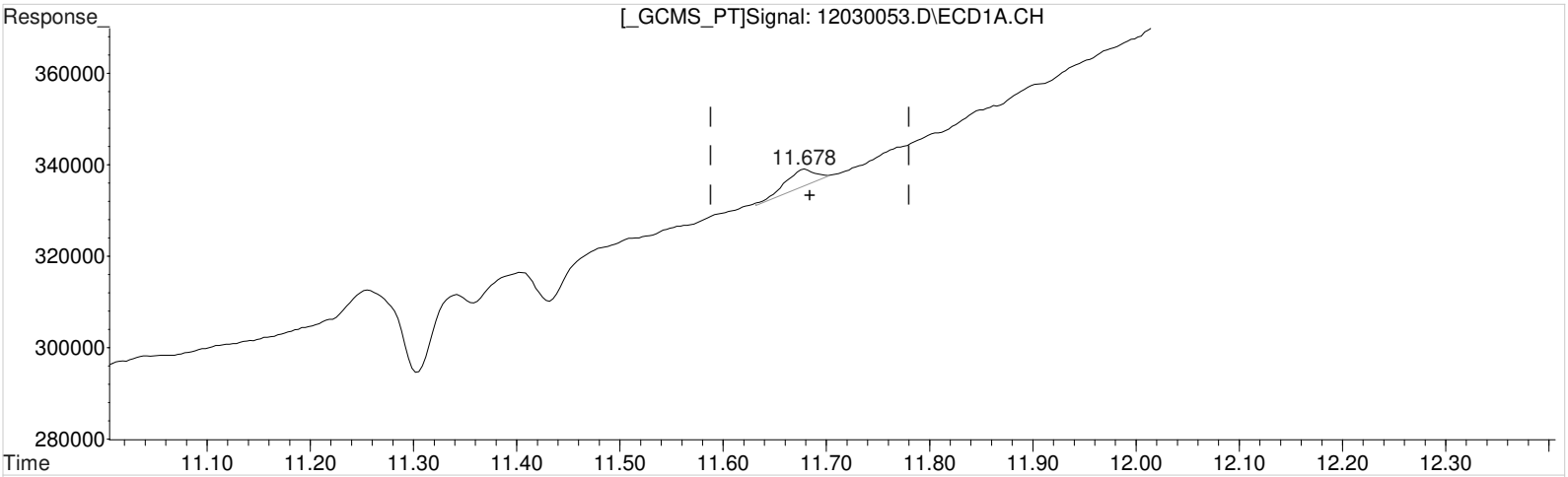
Quantitation Report (Qedit)

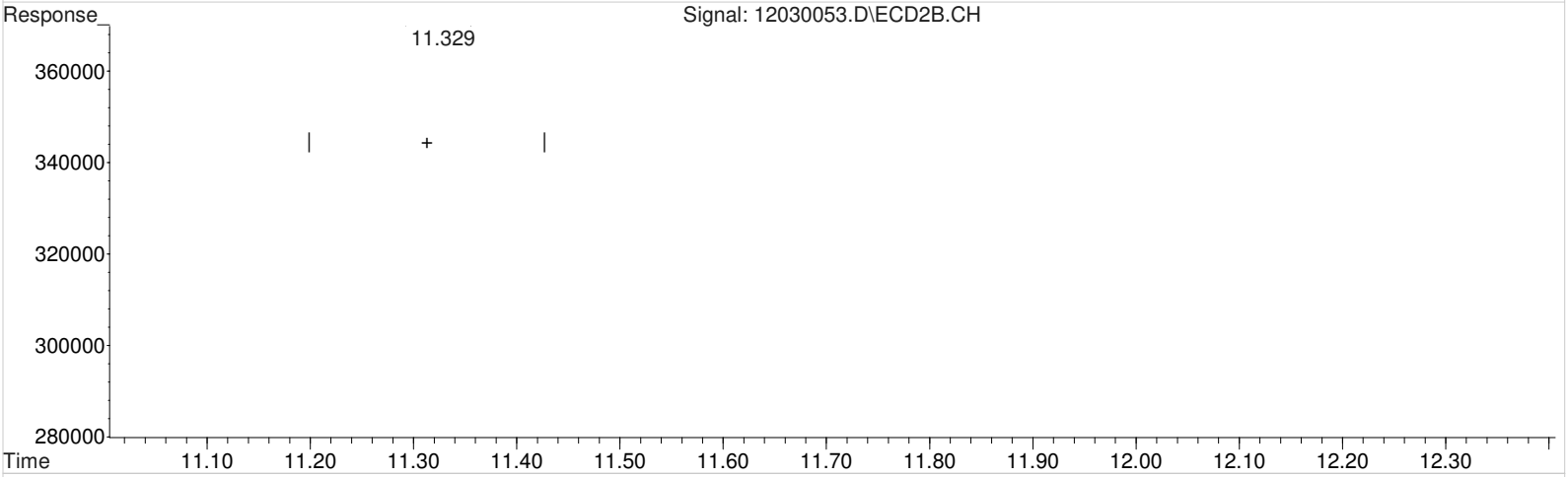
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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)

11.678min 0.136 ppb m

response 8402

Manual Integration:

After

Baseline/Shoulder

12/04/20

(11) Dinoseb #2 (m)

11.329min 0.469 ppb

response 64076

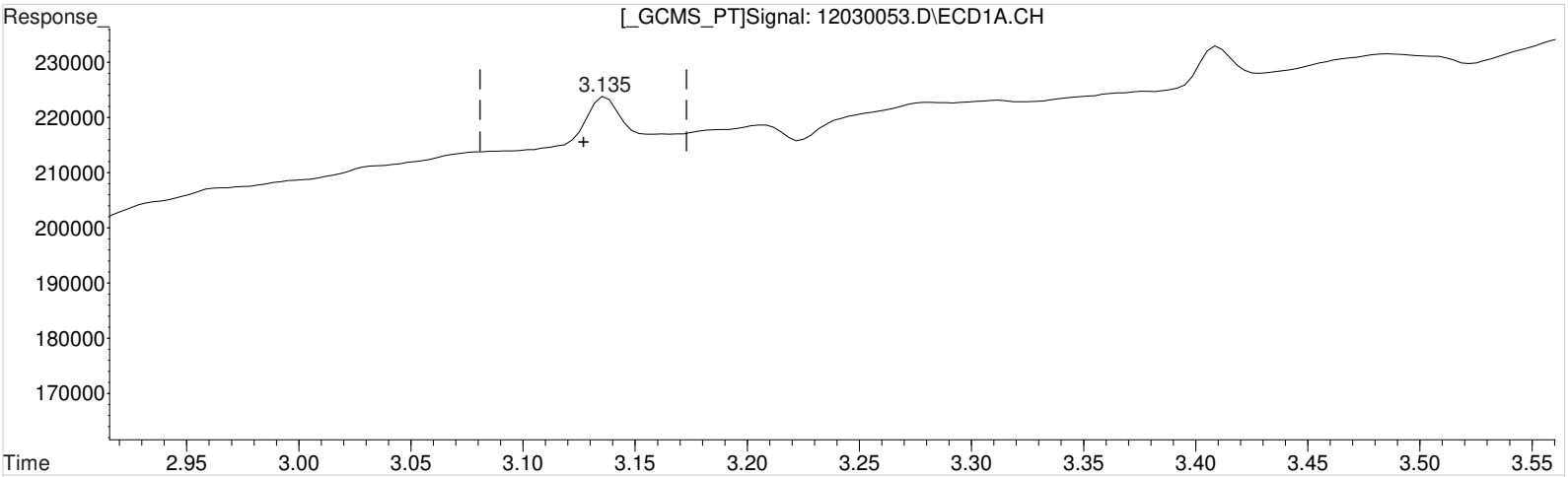
(+) = Expected Retention Time

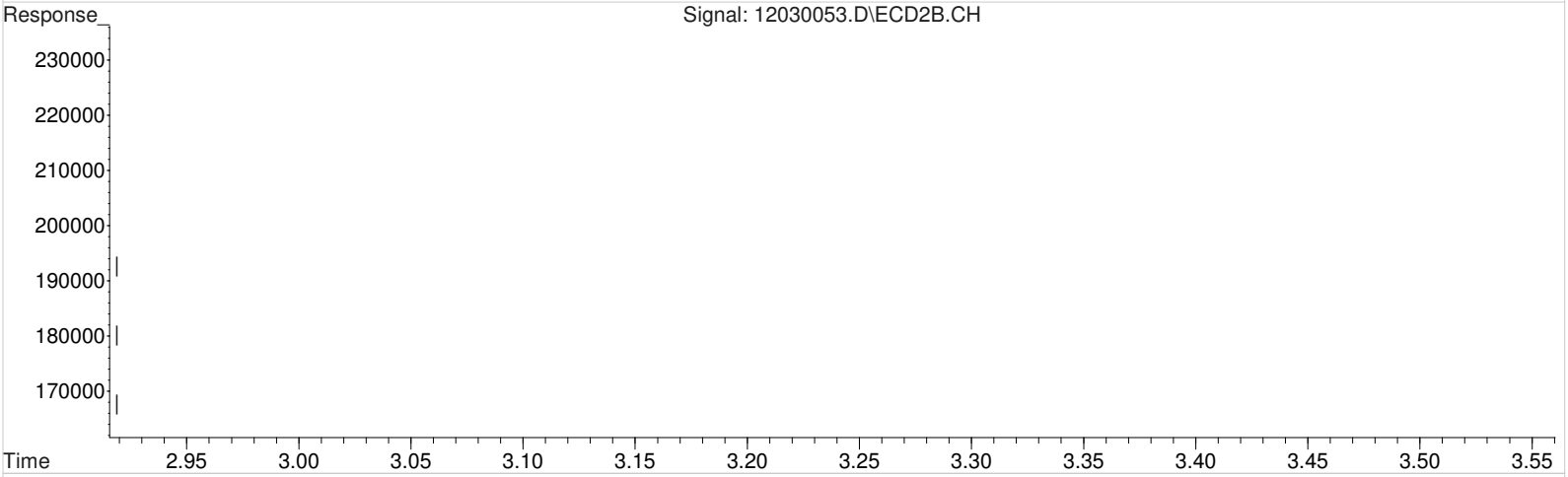
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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)

3.135min 7.978 ppb

response 193537

Manual Integration:

Before

12/04/20

(1) Dalapon #2 (m)

2.905min 1.881 ppb

response 90864

(+) = Expected Retention Time

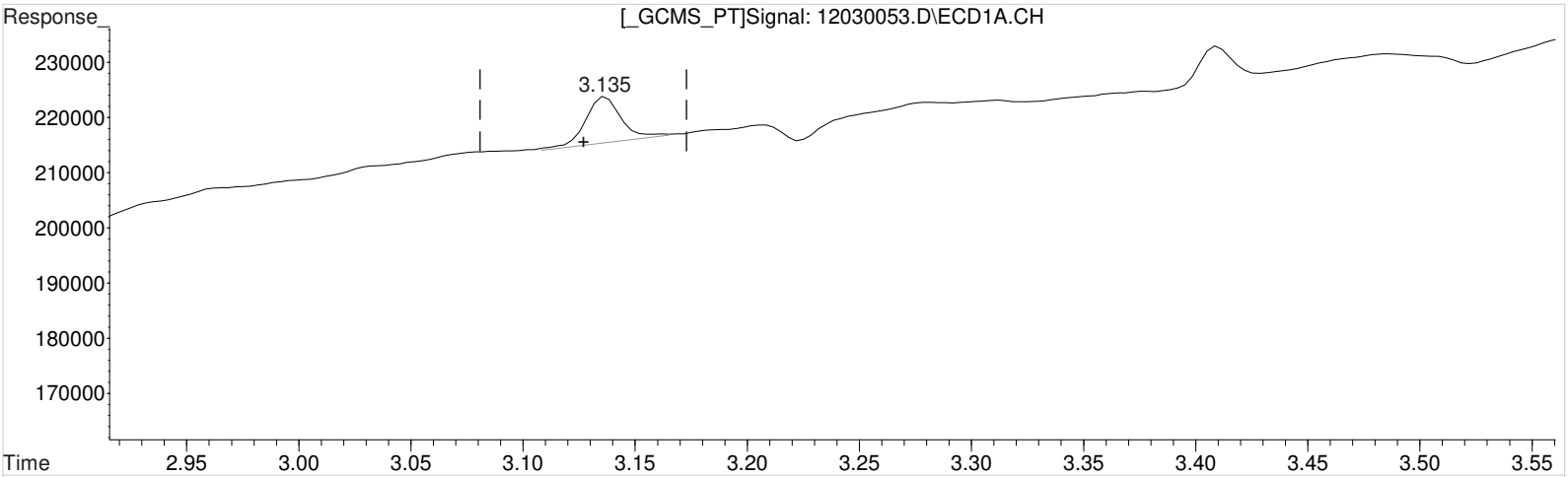
Quantitation Report (Qedit)

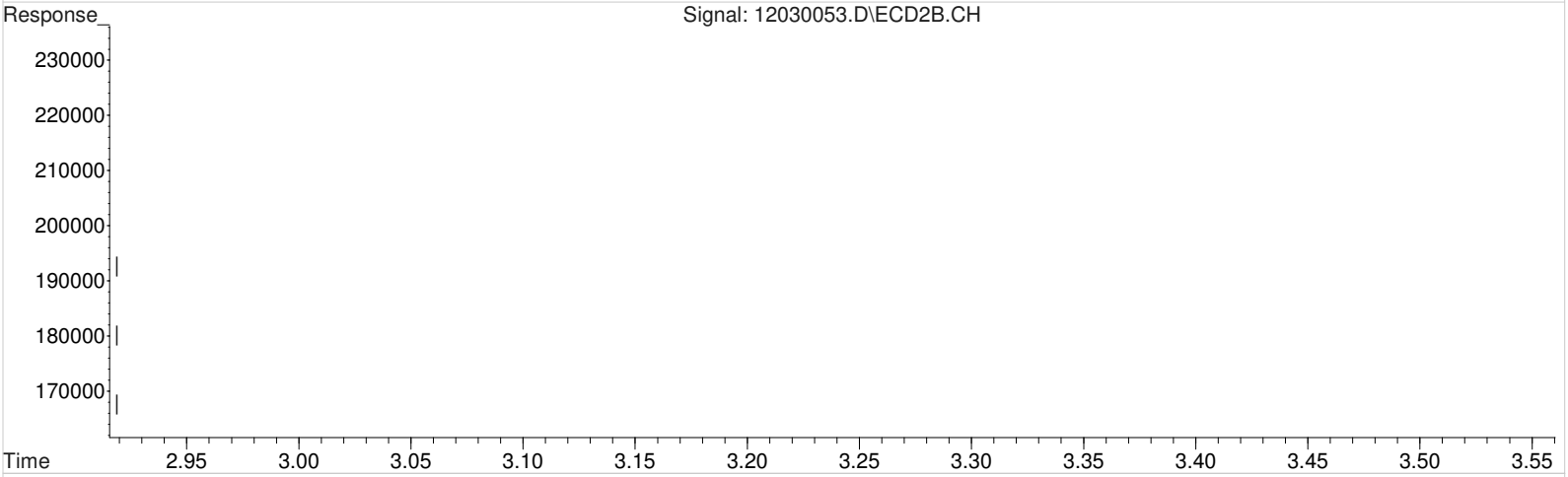
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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)

3.135min 0.397 ppb m

response 9636

Manual Integration:

After

Baseline/Shoulder

12/04/20

(1) Dalapon #2 (m)

2.905min 1.881 ppb

response 90864

(+) = Expected Retention Time

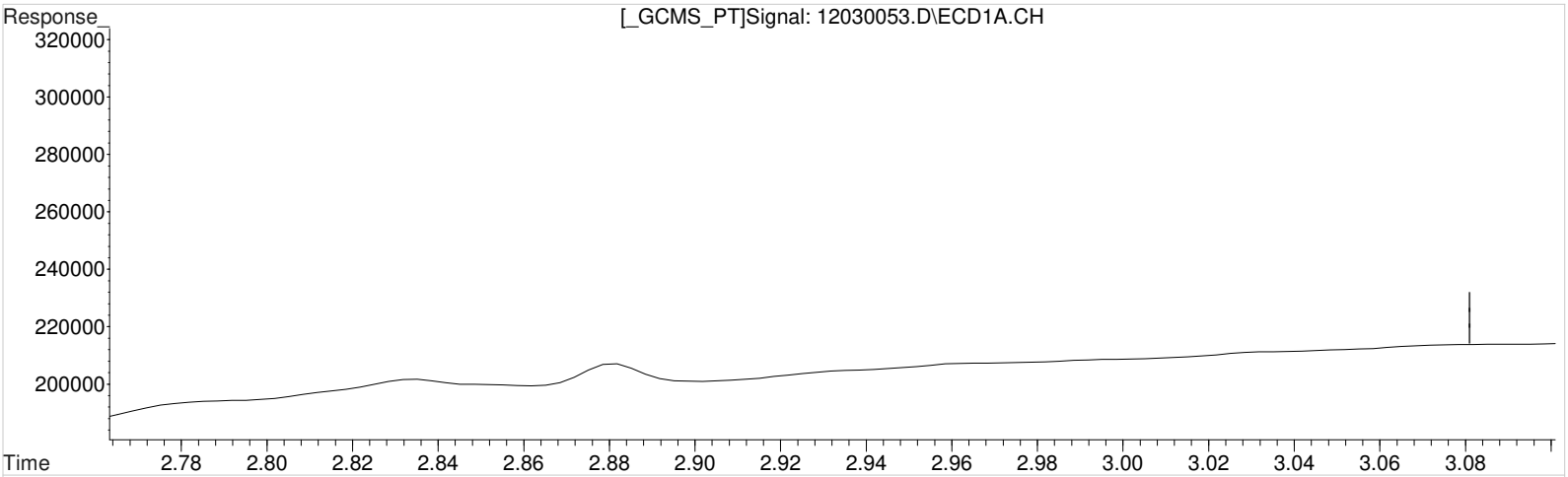
Quantitation Report (Qedit)

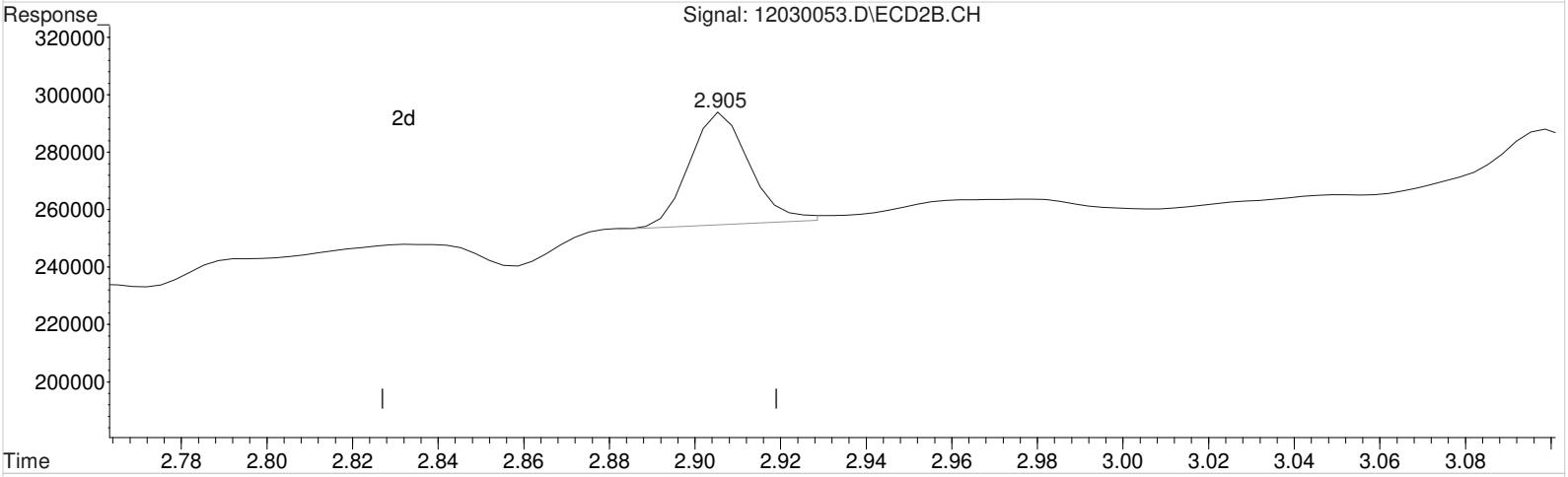
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:58:52 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





QEdit

(1) Dalapon (m)

3.135min 0.397 ppb m

response 9636

(1) Dalapon #2 (m)

2.905min 0.799 ppb m

response 38590

Manual Integration:

After Forgot to print "Before" chromatogram

Baseline/Shoulder

12/04/20

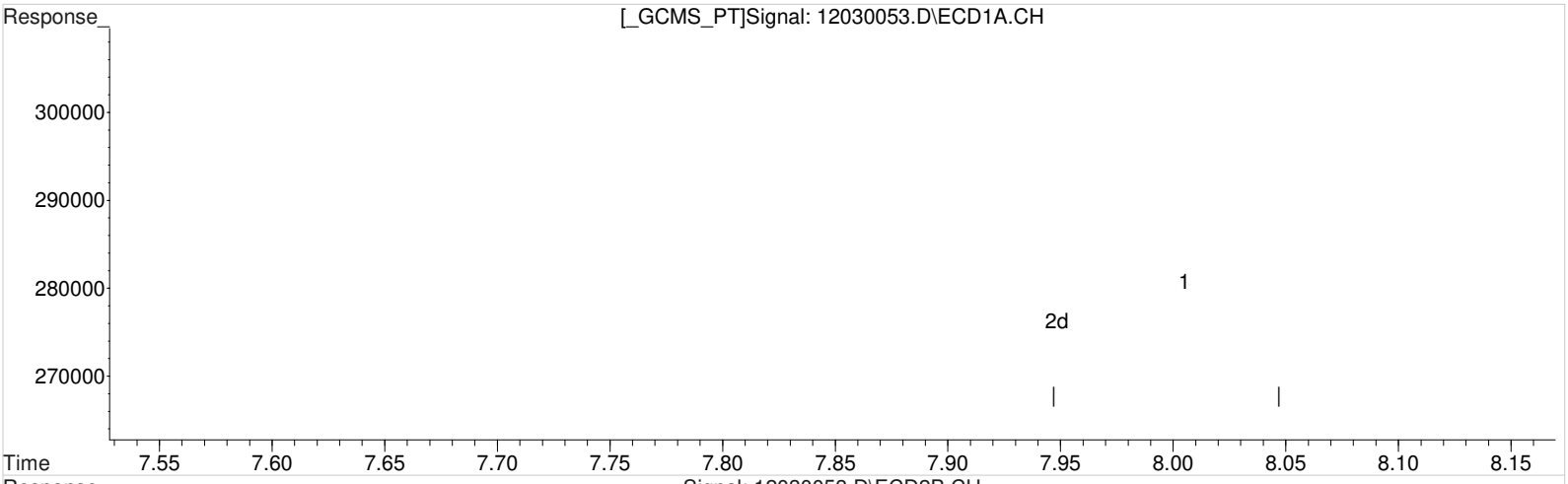
(+) = Expected Retention Time

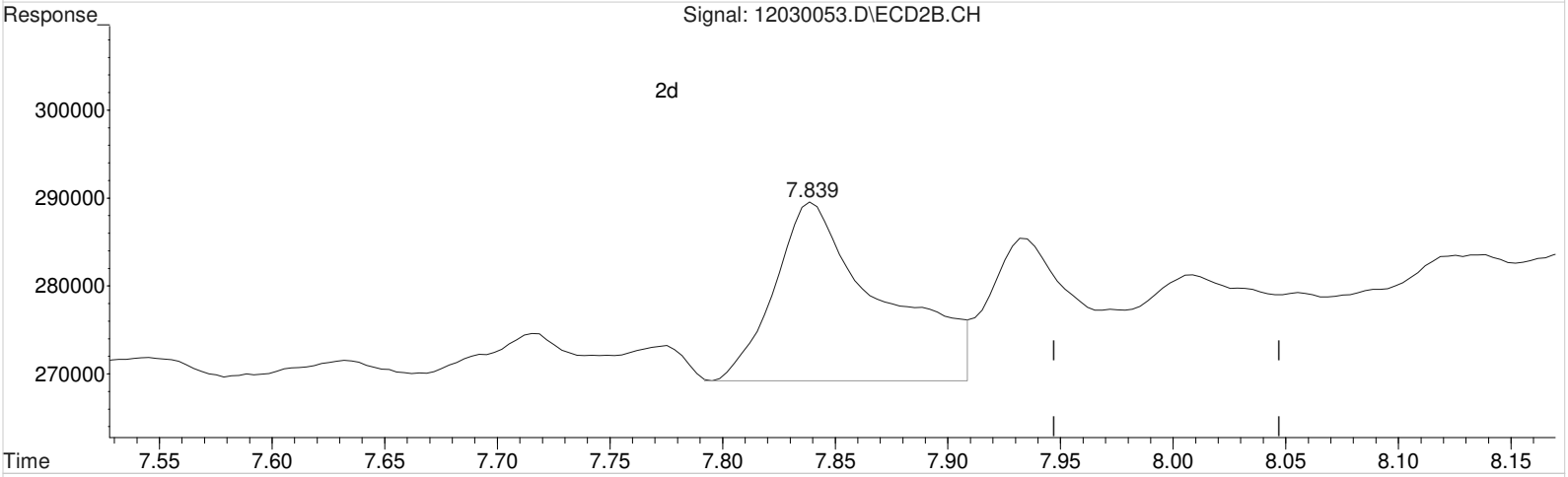
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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)

8.005min 0.498 ppb

response 9060

Manual Integration:

Before

12/04/20

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

7.839min 1.596 ppb

response 67488

(+) = Expected Retention Time

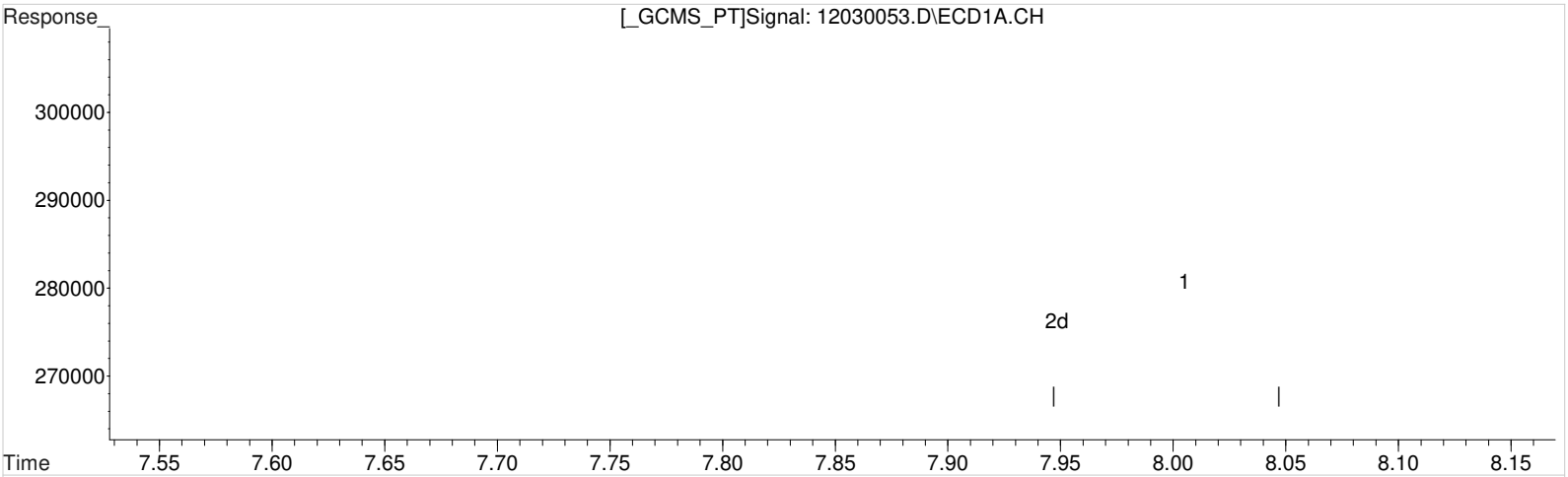
Quantitation Report (Qedit)

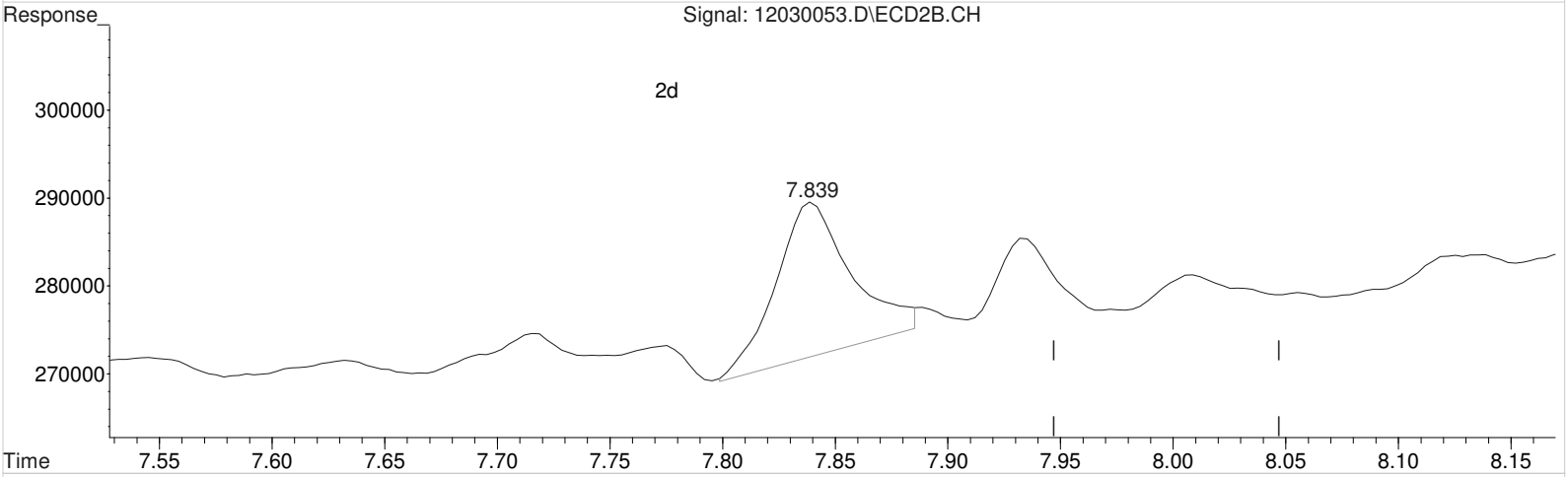
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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)

8.005min 0.498 ppb

response 9060

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.839min 0.980 ppb m

response 41432

(+) = Expected Retention Time

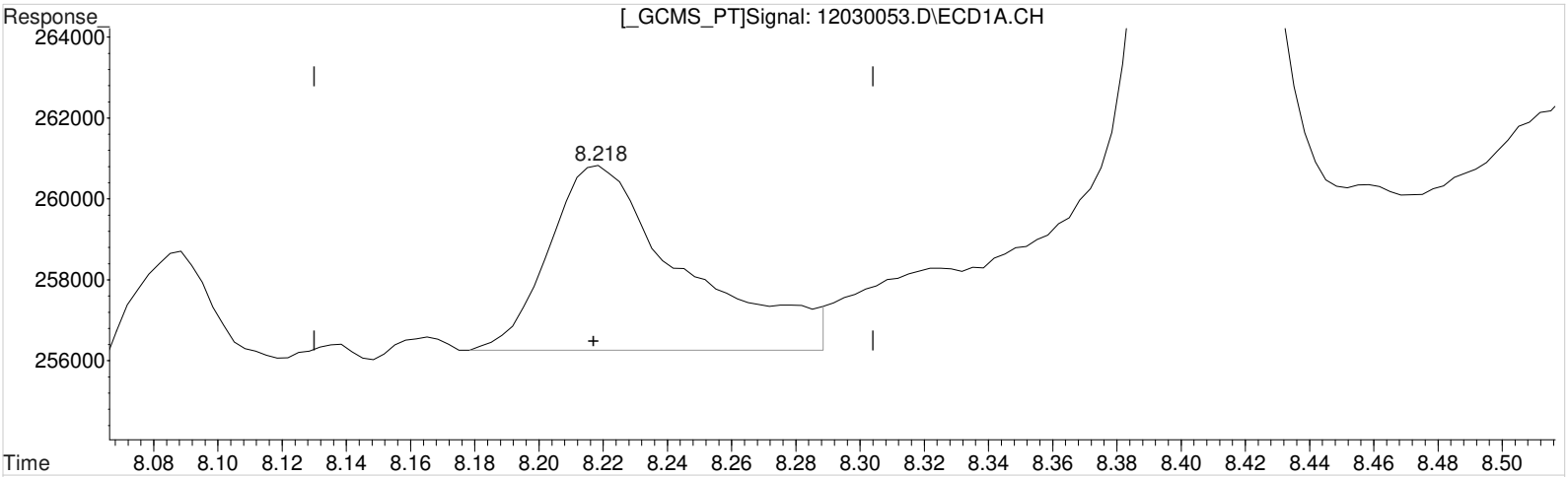
Quantitation Report (Qedit)

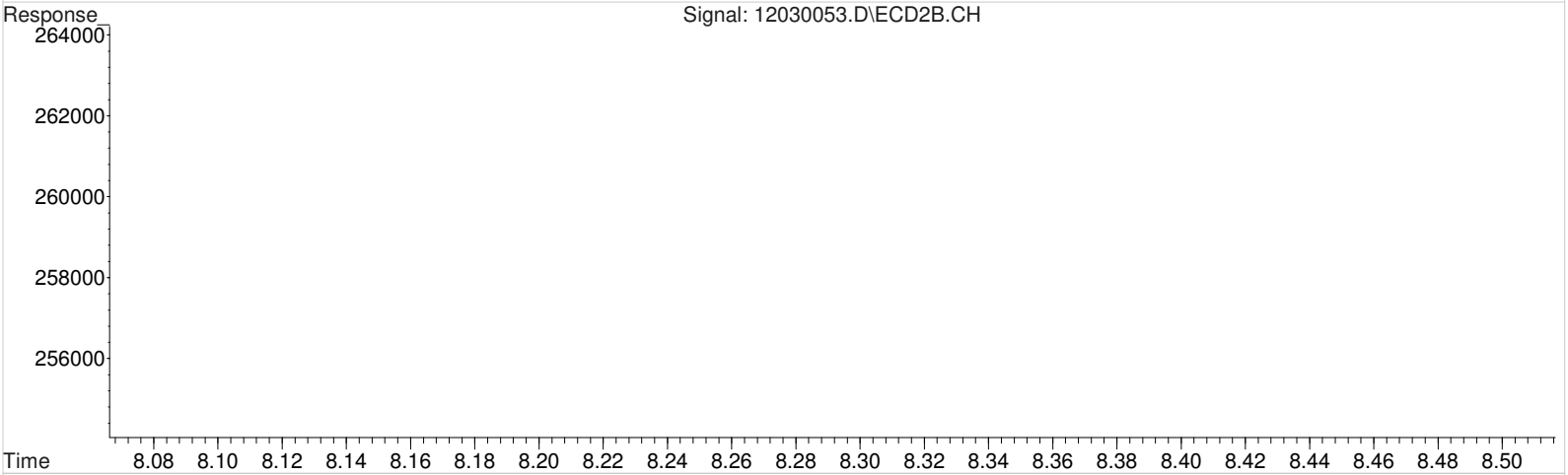
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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)

8.218min 0.191 ppb

response 13361

Manual Integration:

Before

12/04/20

(3) Dicamba #2 (m)

7.932min 0.108 ppb

response 15988

(+) = Expected Retention Time

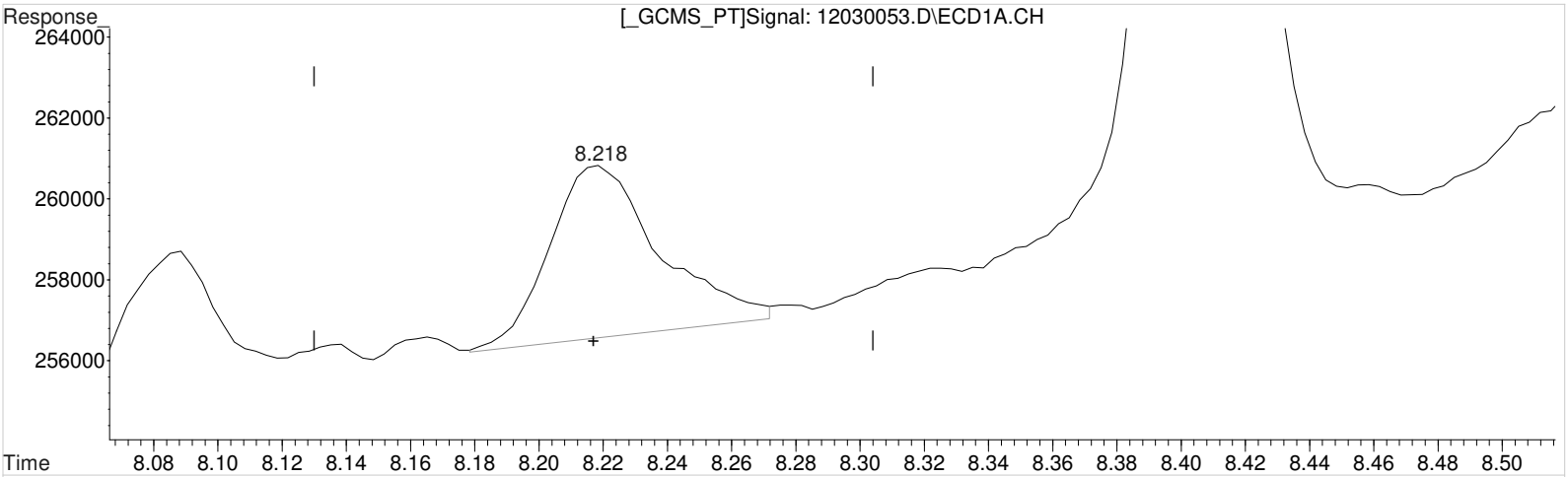
Quantitation Report (Qedit)

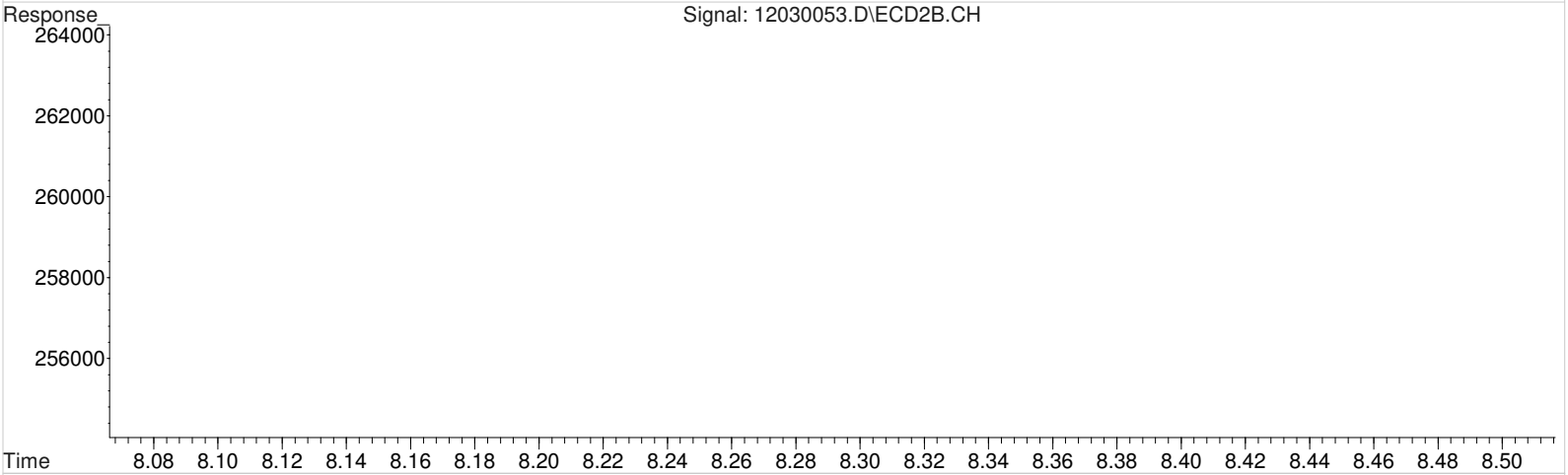
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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)

8.218min 0.147 ppb m

response 10245

Manual Integration:

After

Baseline/Shoulder

12/04/20

(3) Dicamba #2 (m)

7.932min 0.108 ppb

response 15988

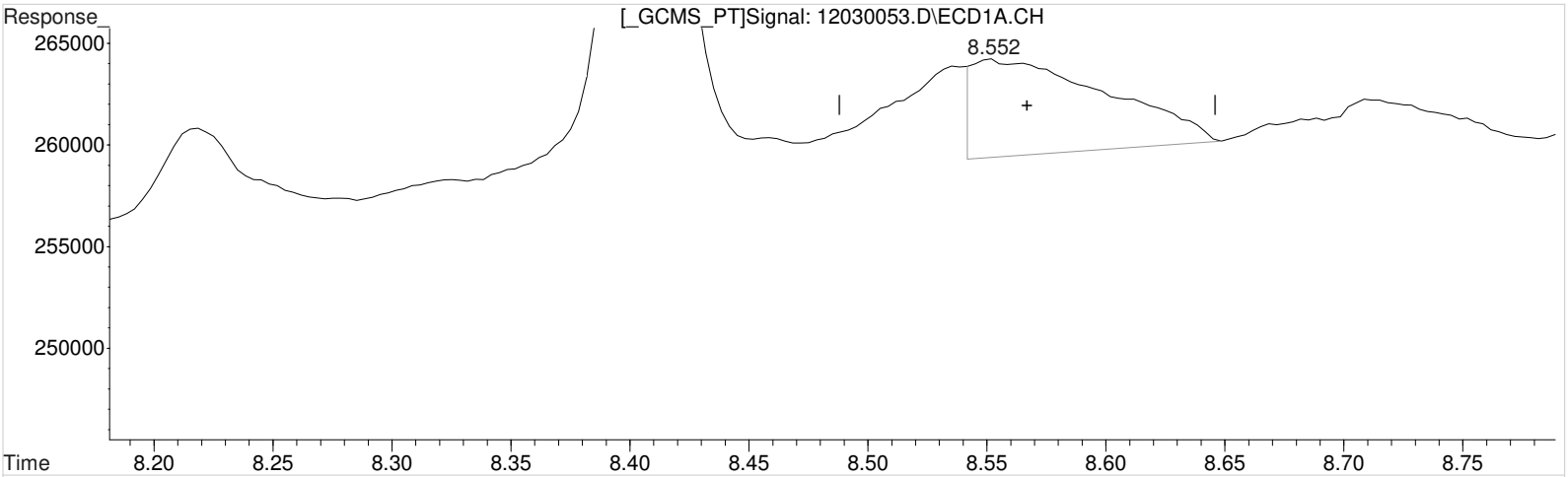
(+) = Expected Retention Time

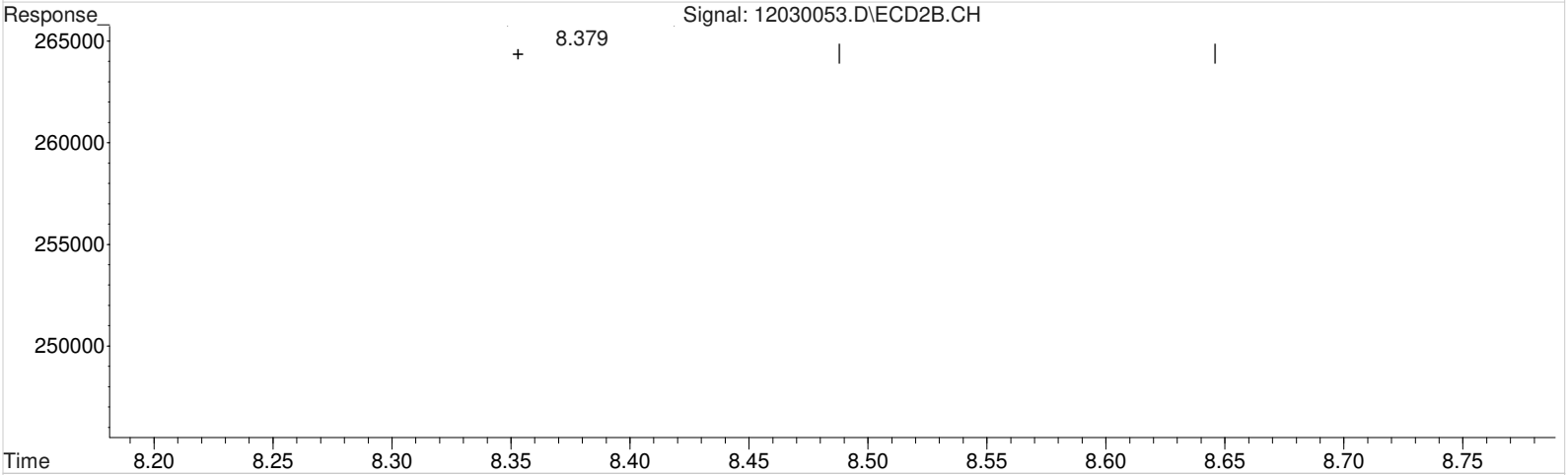
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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

(5) MCPA (m)

8.552min 313.855 ppb

response 18377

Manual Integration:

Before

12/04/20

(5) MCPA #2 (m)

8.379min -1751.974 ppb

response 24008

(+) = Expected Retention Time

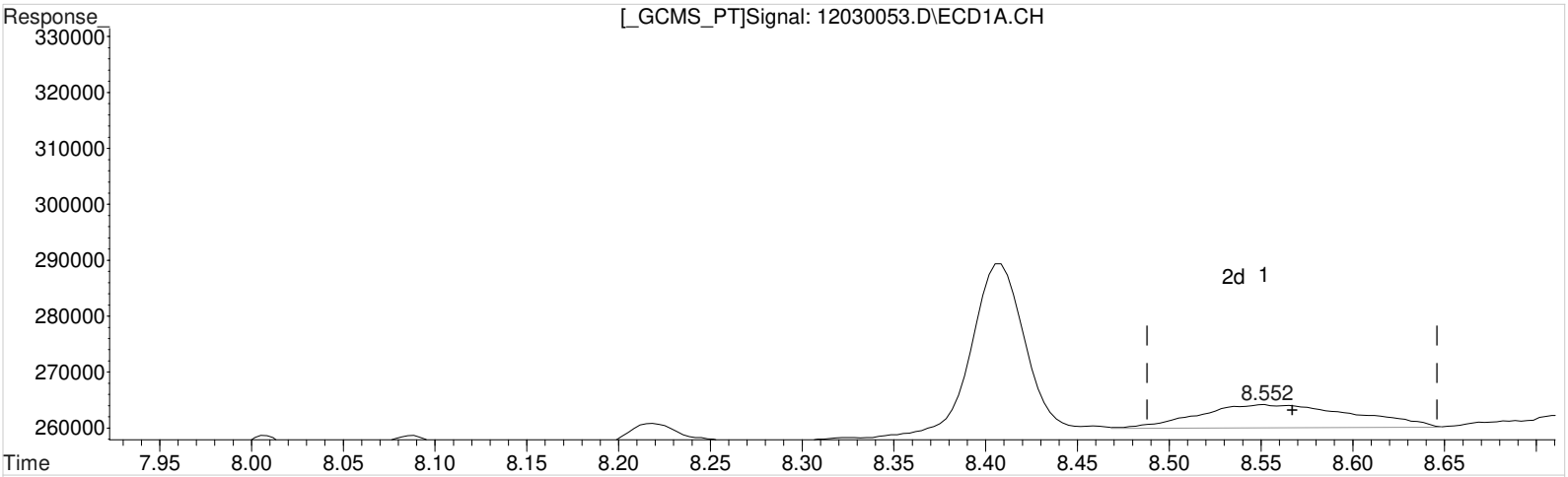
Quantitation Report (Qedit)

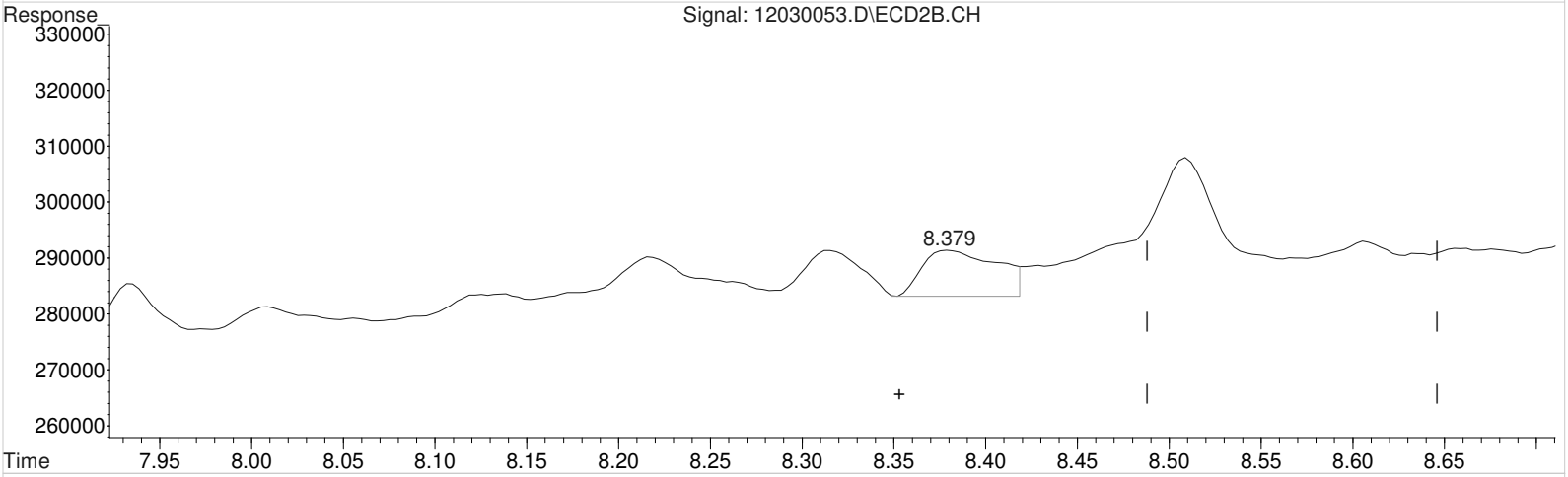
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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

(5) MCPA (m)

8.552min 417.010 ppb m

response 24417

(5) MCPA #2 (m)

8.379min -1751.974 ppb

response 24008

Manual Integration:

Before

12/04/20

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
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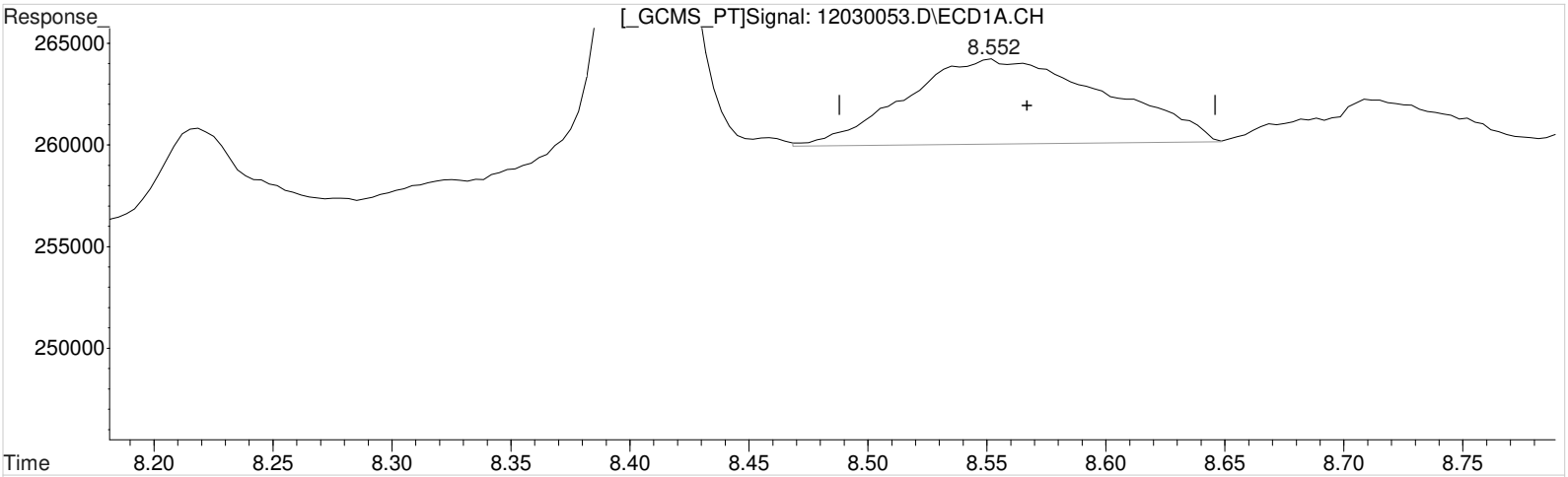
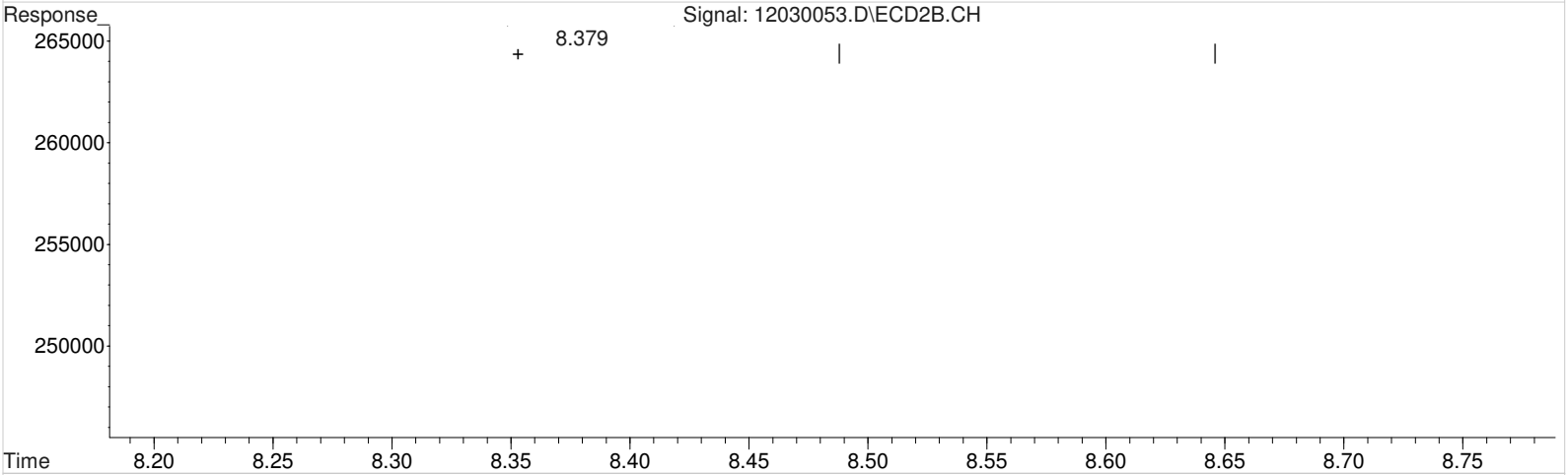
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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

(5) MCPA (m)

8.552min 417.010 ppb m

response 24417

Manual Integration:

After

Baseline/Shoulder

12/04/20

(5) MCPA #2 (m)

8.379min -1751.974 ppb

response 24008

(+) = Expected Retention Time

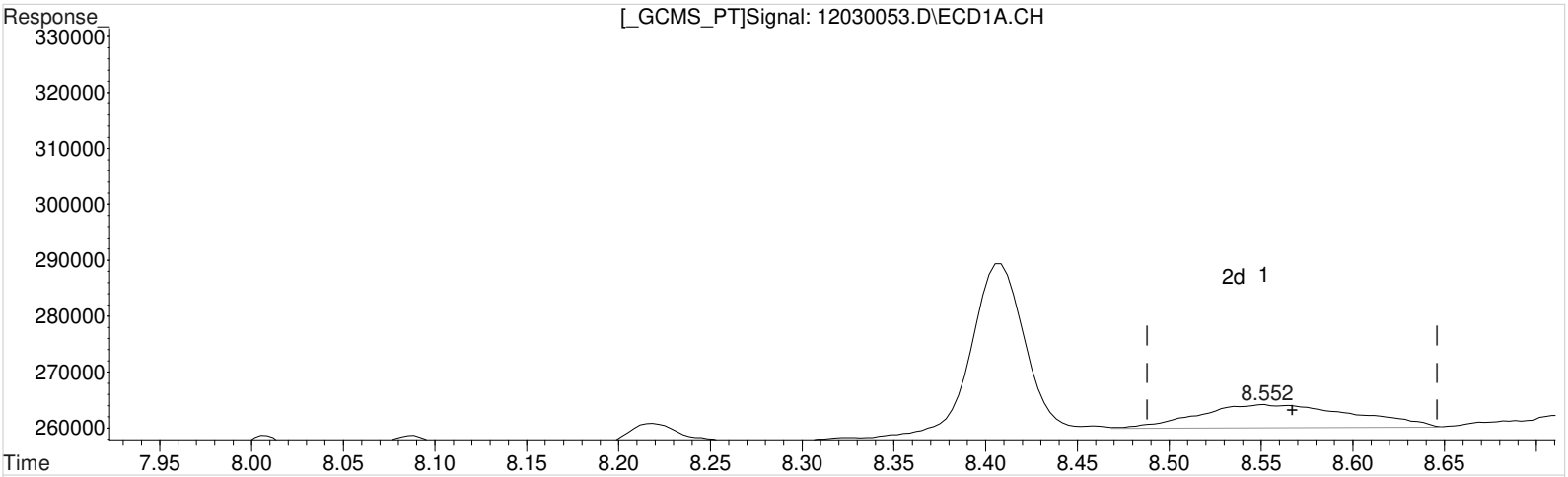
Quantitation Report (Qedit)

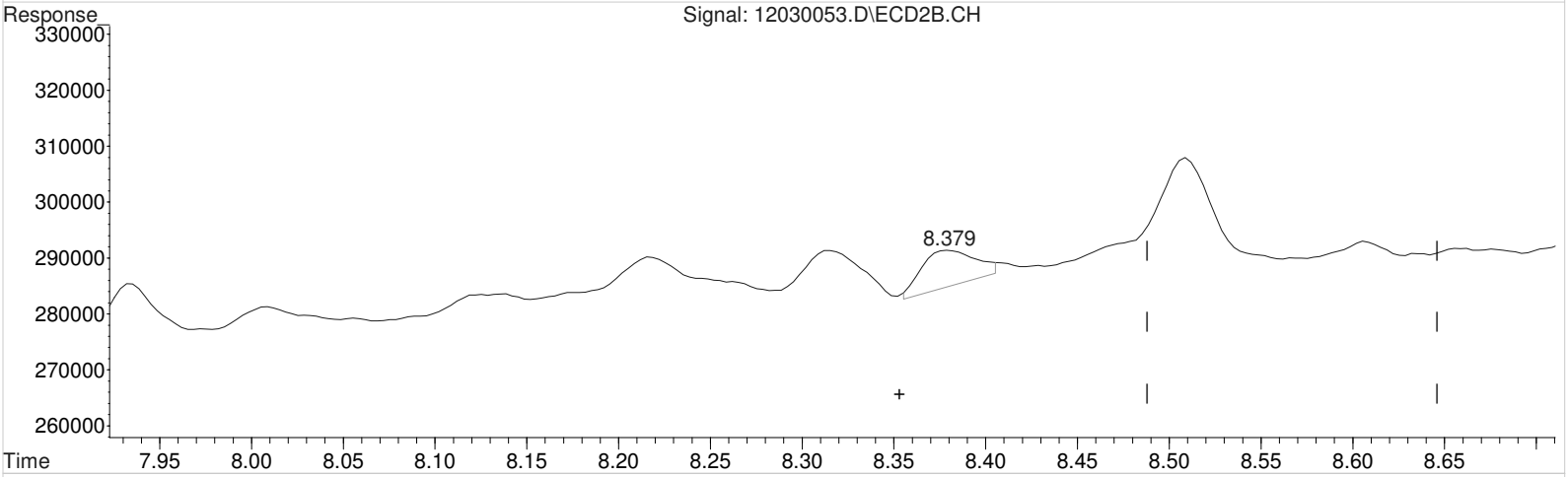
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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

(5) MCPA (m)

8.552min 417.010 ppb m

response 24417

Manual Integration:

After

Baseline/Shoulder

12/04/20

(5) MCPA #2 (m)

8.379min -1804.758 ppb m

response 14021

(+) = Expected Retention Time

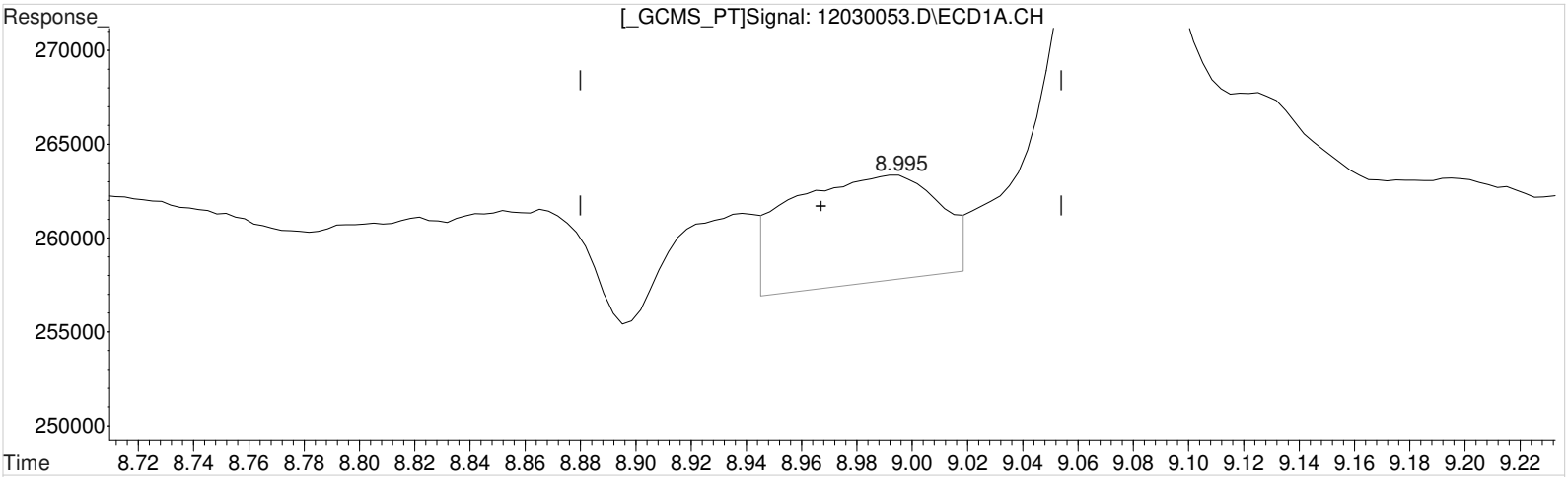
Quantitation Report (Qedit)

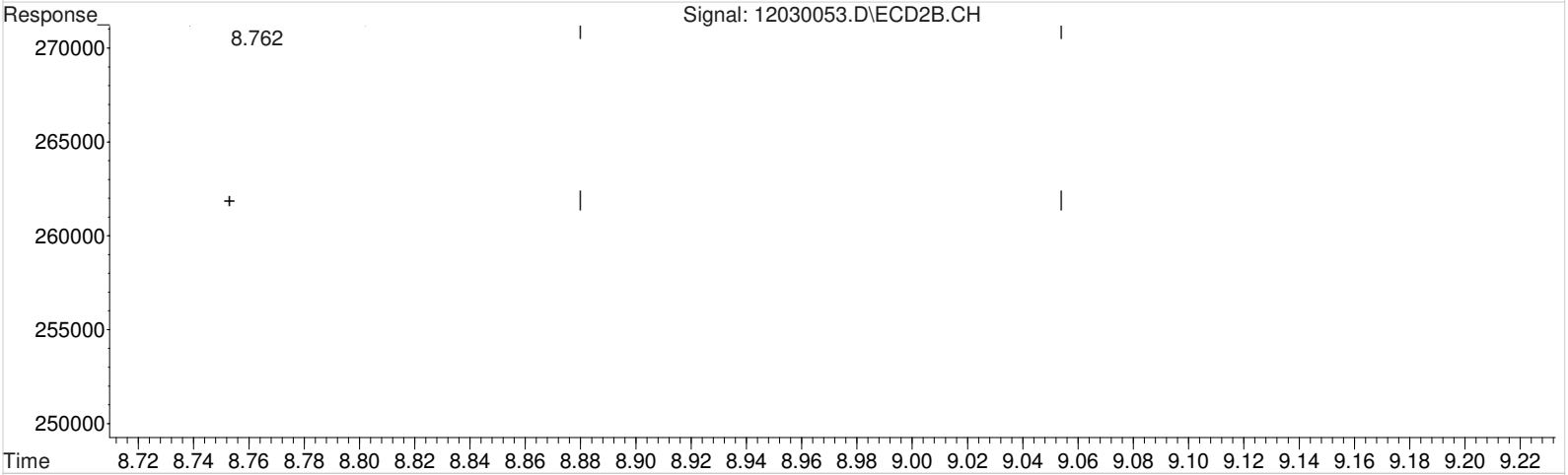
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_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

(6) Dichloroprop (m)

8.995min 1.149 ppb

response 21420

Manual Integration:

Before

12/04/20

(6) Dichloroprop #2 (m)

8.762min 0.212 ppb

response 8864

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
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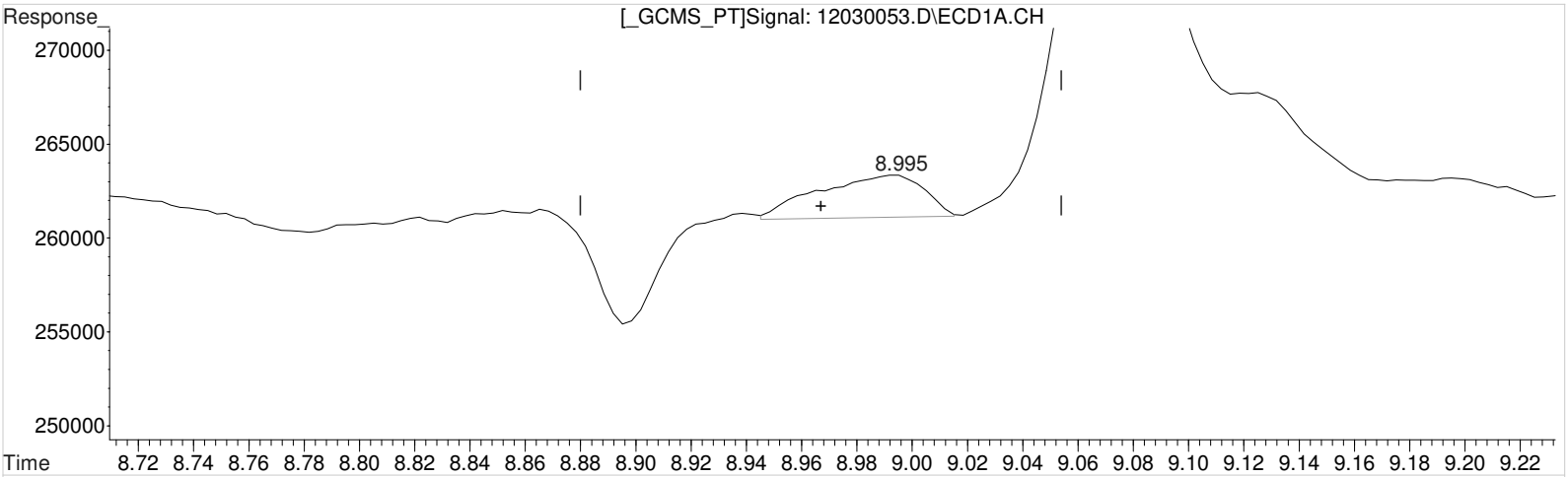
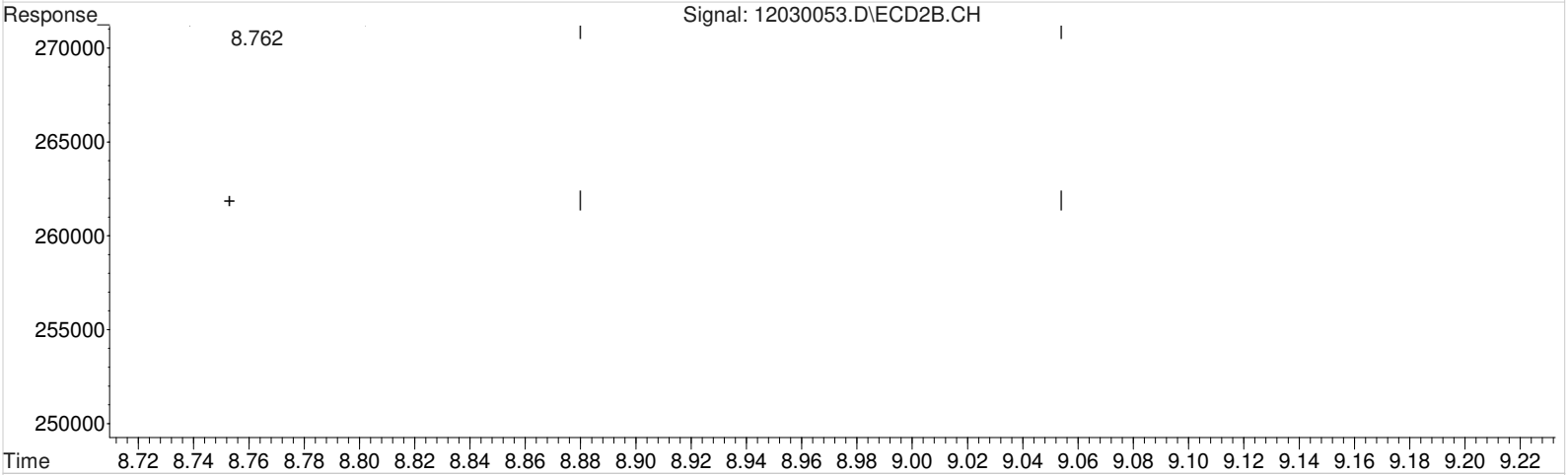
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(6) Dichloroprop (m)

8.995min 0.323 ppb m

response 6031

Manual Integration:

After

Baseline/Shoulder

12/04/20

(6) Dichloroprop #2 (m)

8.762min 0.212 ppb

response 8864

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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Quant Time: Dec 04 12:16:22 2020
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Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
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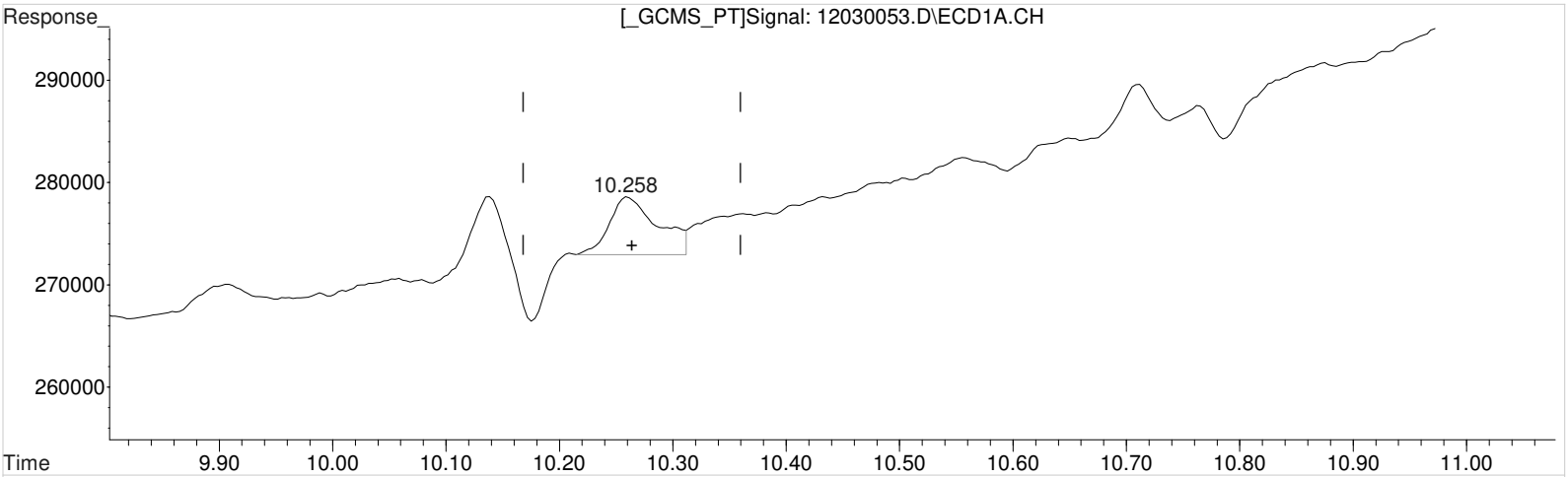
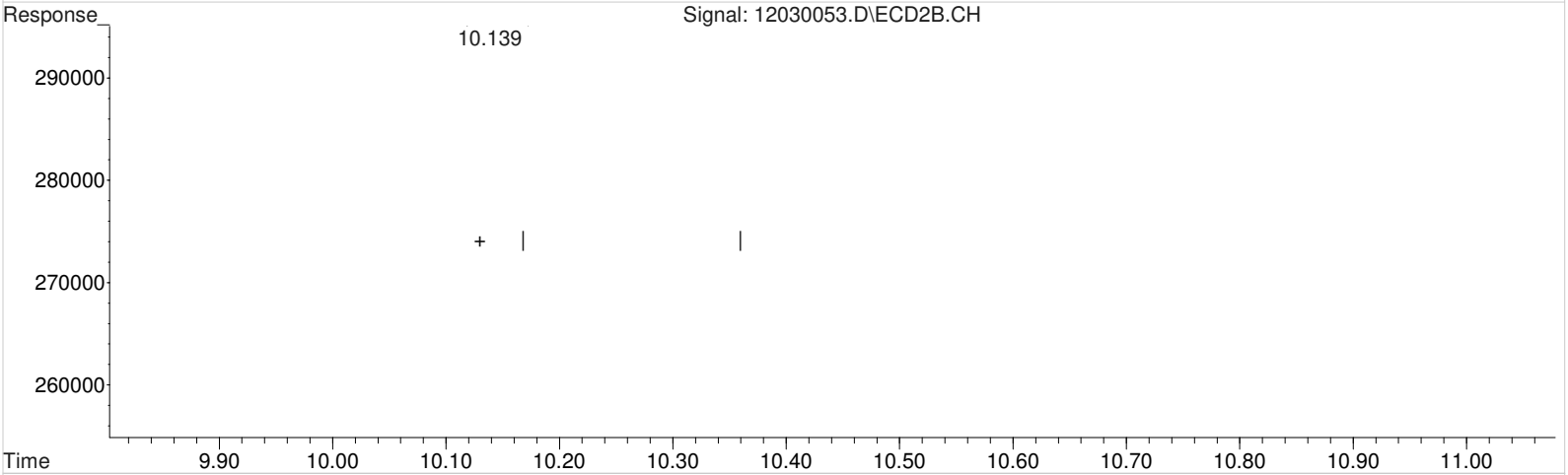
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

10.258min 0.182 ppb

response 17017

Manual Integration:

Before

12/04/20

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

10.139min 0.181 ppb

response 36670

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030053.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:40 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 12:16:22 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
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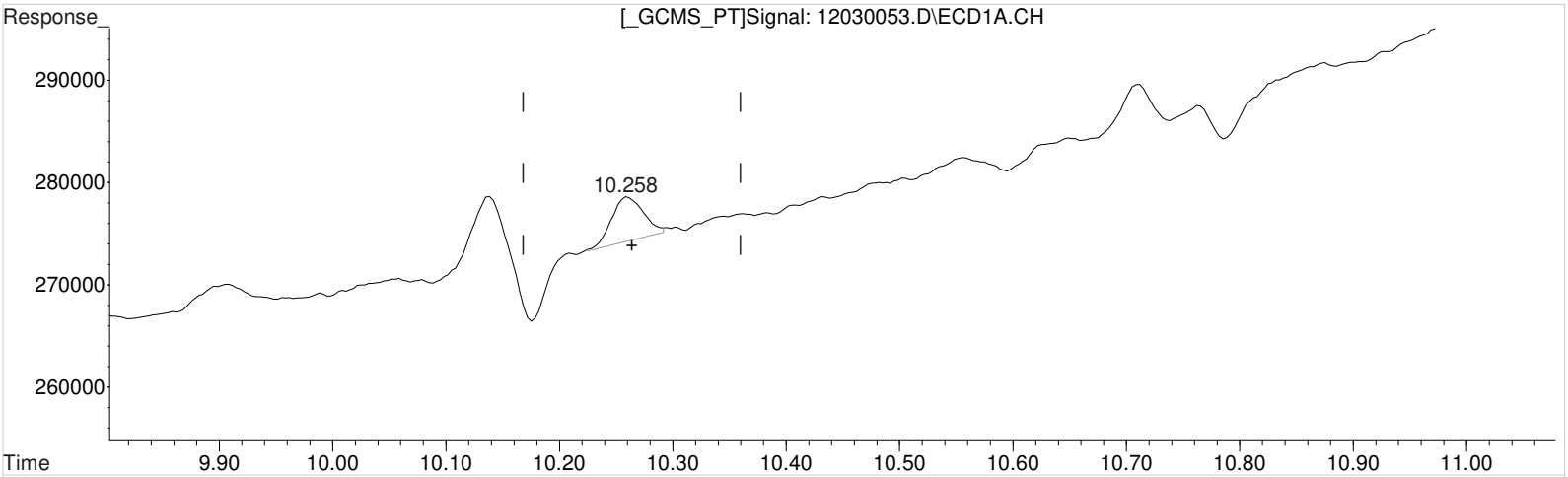
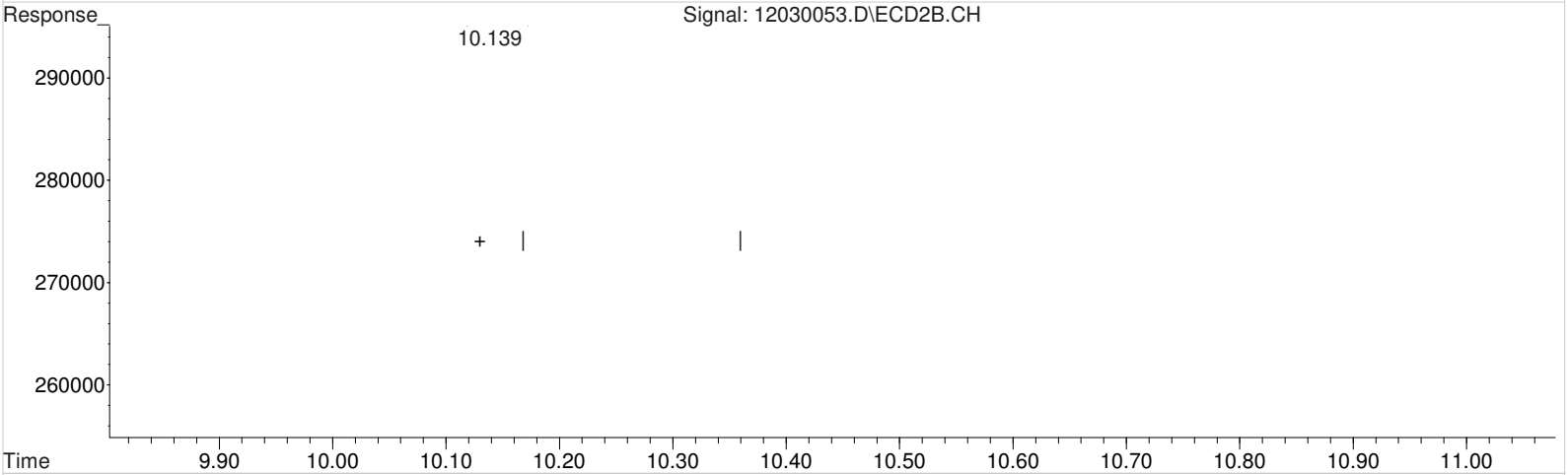
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 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)

10.258min 0.093 ppb m

response 8702

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

10.139min 0.181 ppb

response 36670

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030063.D\
Lab ID: KQ2019401-06
RunType: CCB
Matrix: Soil

Date Acquired: 12/4/20 12:29:00
Batch ID: 705934
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 - RTX-CLP2	2,4-DB	-21		20	CCV+ND
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-T	23		20	
	2,4,5-TP (Silvex)	25		20	
	2,4-D	24		20	
	Dichlorprop	22		20	
	Dinoseb	30		20	
	MCPA	37		20	
	MCPP	31		20	

Primary Review: _____

Secondary Review: _____

1st UA 12/07/20
2nd SM 12/08/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030063.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 12:29:00	**Vial:**	8
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019401-06	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
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 +0.01	7.83 +0.01	9111	49180	0.501	1.163				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 +0.01	10.14 +0.01	7896	31987	0.084	0.158 CCV	0.14U	0.26U	2.4 U	Y
2,4-D	9.30 -0.01	9.04 -0.02	2211	210181	0.104	4.105 CCV	0.17U	6.8U	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: 12/7/20 16:18
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030063.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 12:29:00	**Vial:**	10
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019401-06	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	8.00 +0.01	7.83 +0.01	9111	49180	0.501	1.163				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	10.71 +0.02	10.55 +0.01	12102	45431	0.147	0.237 CCV	0.25U	0.40U	4.0 U	Y
2,4,5-TP (Silvex)	10.26 +0.01	10.14 +0.01	7896	31987	0.084	0.158 CCV	0.14U	0.26U	2.4 U	Y
2,4-D	9.30 -0.01	9.04 -0.02	2211	210181	0.104	4.105 CCV	0.17U	6.8U	7.7 U	Y
2,4-DB	11.25 -0.02	11.13 -0.04	37984	29156	3.702 CCV	1.005	6.2J	1.7U	5.4 U	Y
Dalapon	3.13	2.89 +0.01	10198	7577	0.420	0.157	0.70U	0.26U	5.5 U	Y
Dicamba	8.21	7.93 +0.01	8241	18352	0.118	0.124	0.20U	0.21U	4.3 U	Y
Dichlorprop	8.97 +0.01	8.76	1529	8799	0.082	0.211 CCV	0.14U	0.35U	3.4 U	Y
Dinoseb	11.68 +0.01	11.33 +0.01	8622	57014	0.139	0.417 CCV	0.23U	0.70U	2.7 U	Y
MCPA	8.55 -0.01	0.00	36578	23399	624.704	0.000 CCV	1000J	0U	320 U	Y
MCPP	8.31 +0.02	0.00	716	5486	524.184	0.000 CCV	870J	0U	460 U	Y

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

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

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

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

Printed: 12/8/20 17:31
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:27:15 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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	8.000	7.834	9111	49180	0.501	1.163m#
		Target Compounds						
1)	m	Dalapon	3.134	2.887	10198	7577	0.420m	0.157m#
3)	m	Dicamba	8.210	7.931	8241	18352	0.118m	0.124
4)	m	MCPP	8.307	8.124	716	5486	524.184m	N.D. m#
5)	m	MCPA	8.550	8.377	36578	23399	624.704	N.D. #
6)	m	Dichloroprop	8.974	8.761	1529	8799	0.082m	0.211 #
7)	m	2,4-D	9.300	9.041	2211	210181	0.104	4.105m#
8)	m	2,4,5-TP ...	10.257	10.137	7896	31987	0.084m	0.158 #
9)	m	2,4,5-T	10.707	10.551	12102	45431	0.147	0.237 #
10)	m	2,4-DB	11.254	11.134	37984	29156	3.702m	1.005m#
11)	m	Dinoseb	11.677	11.331	8622	57014	0.139m	0.417 #

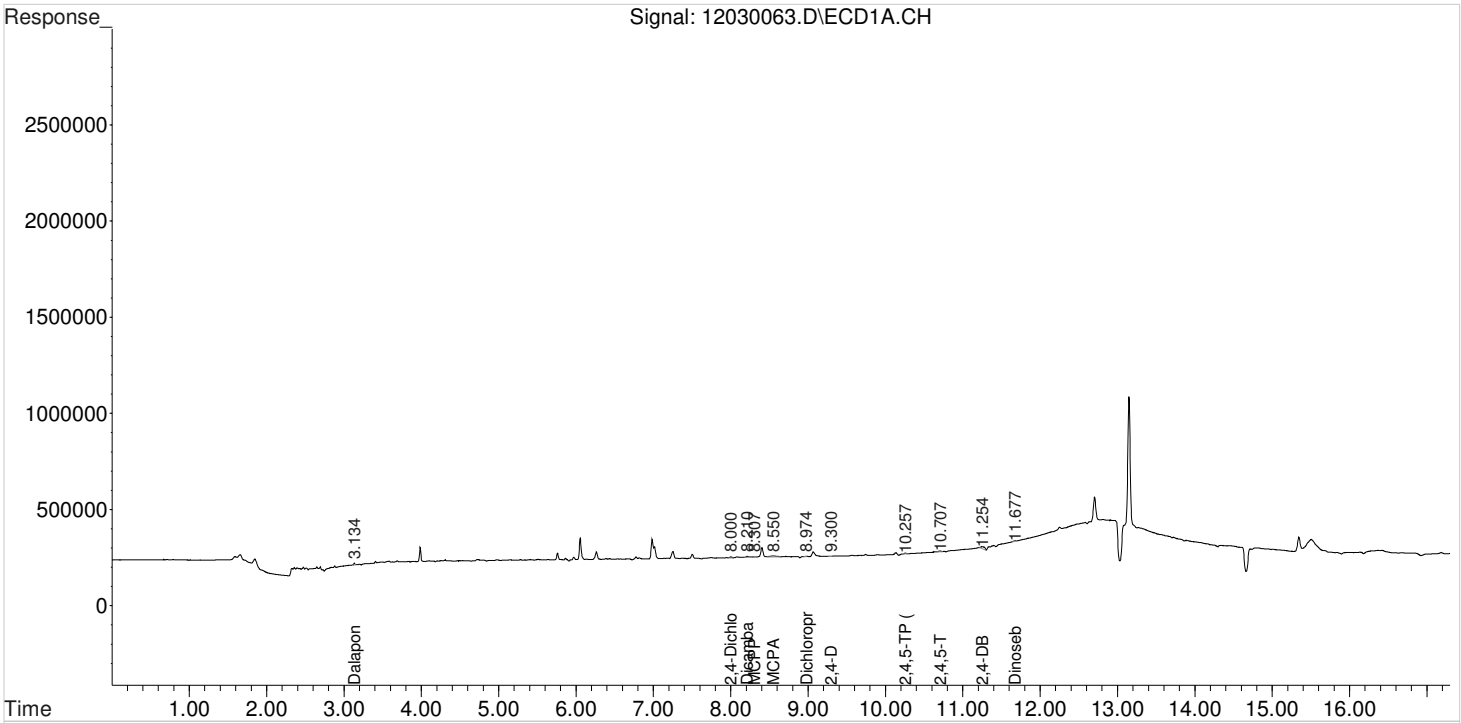
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

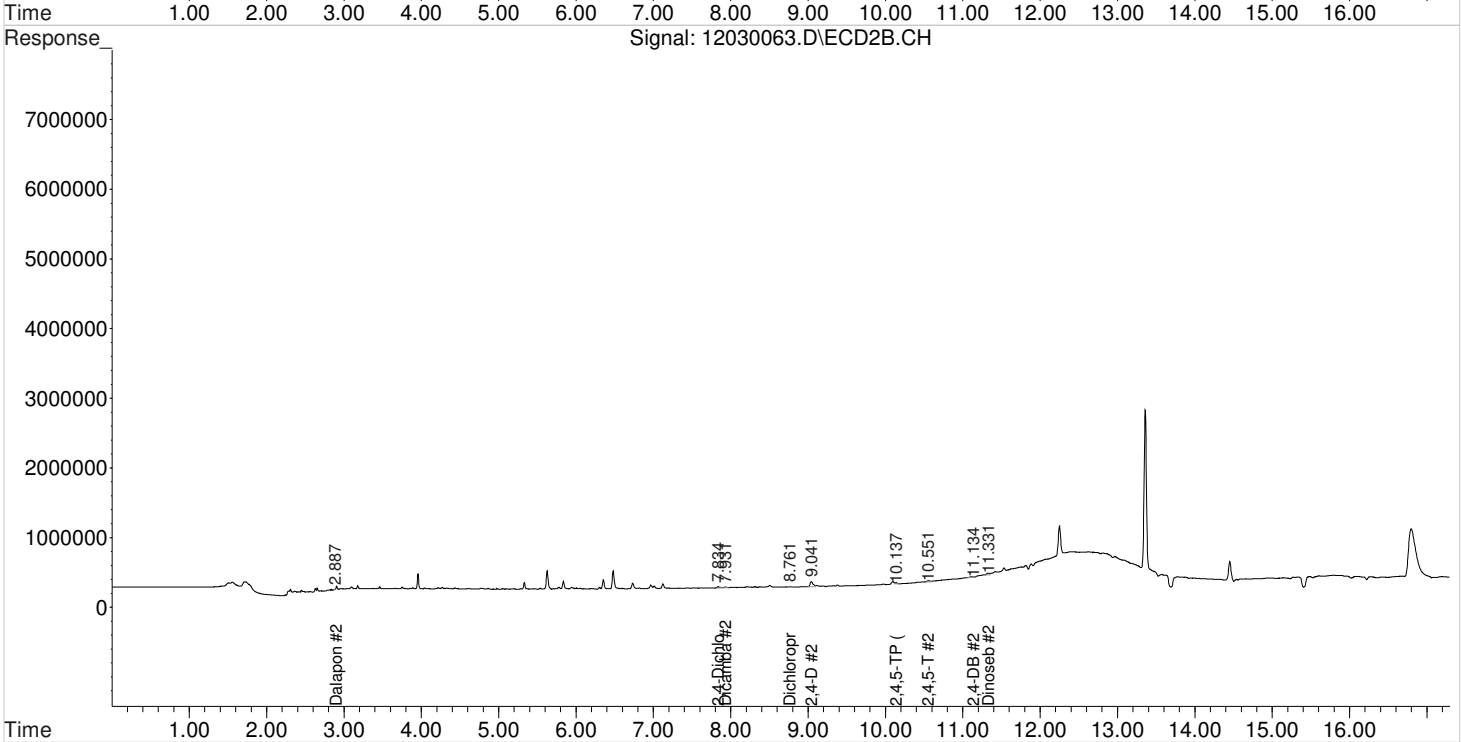
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 15:27:15 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





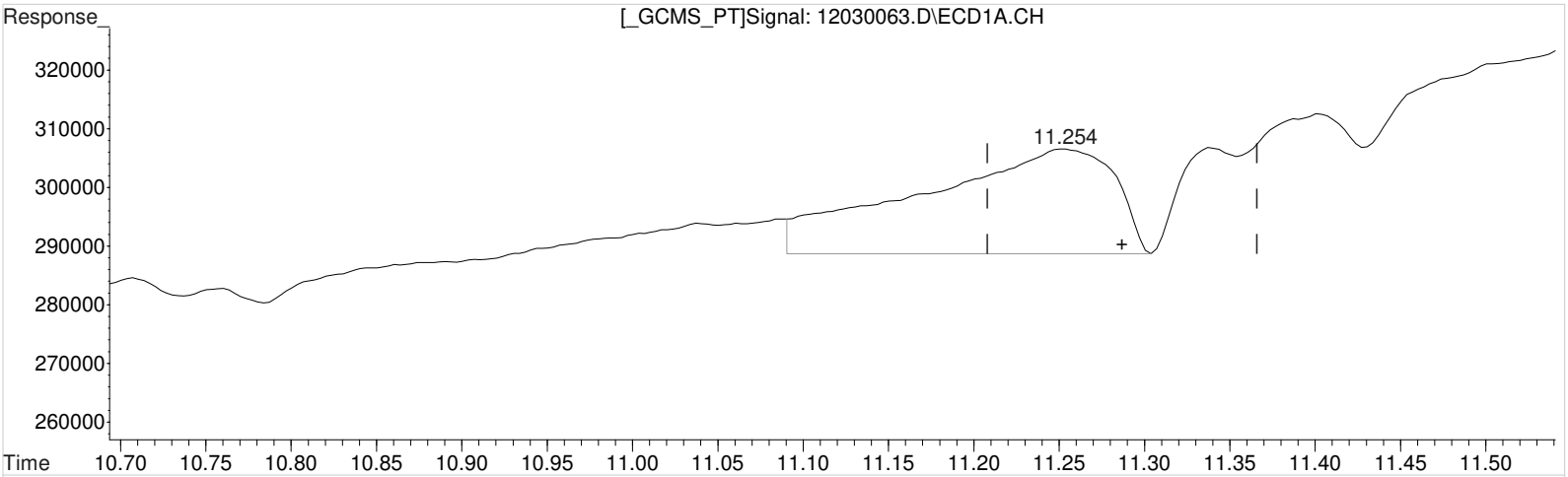
Quantitation Report (Qedit)

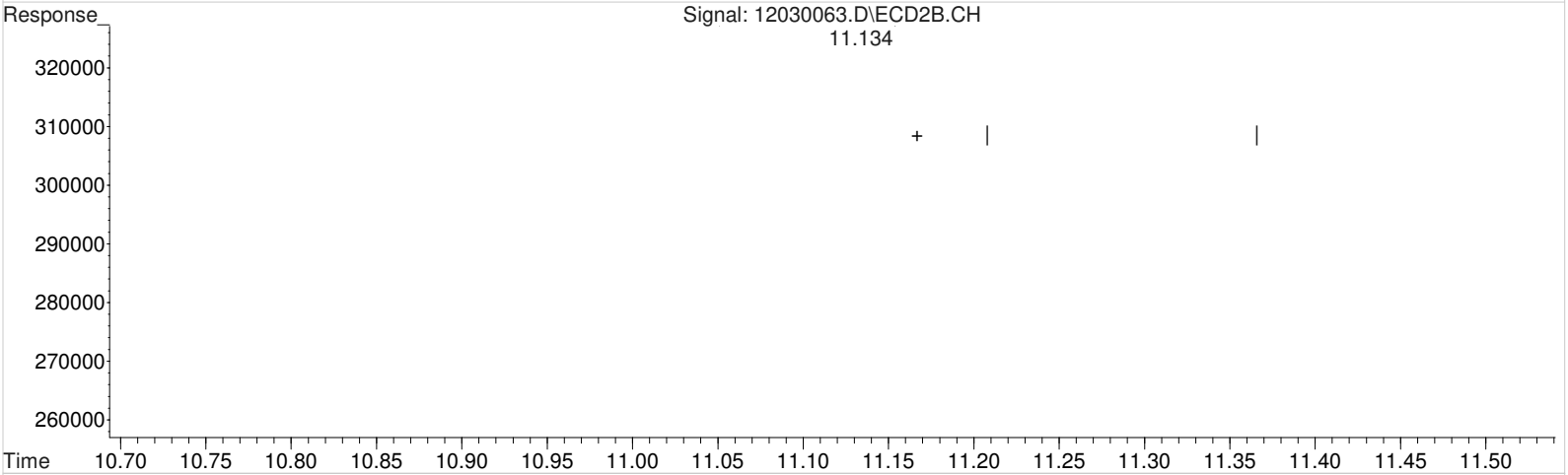
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

11.254min 13.967 ppb

response 143296

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

11.134min 1.622 ppb

response 47074

Manual Integration:

Before

12/04/20

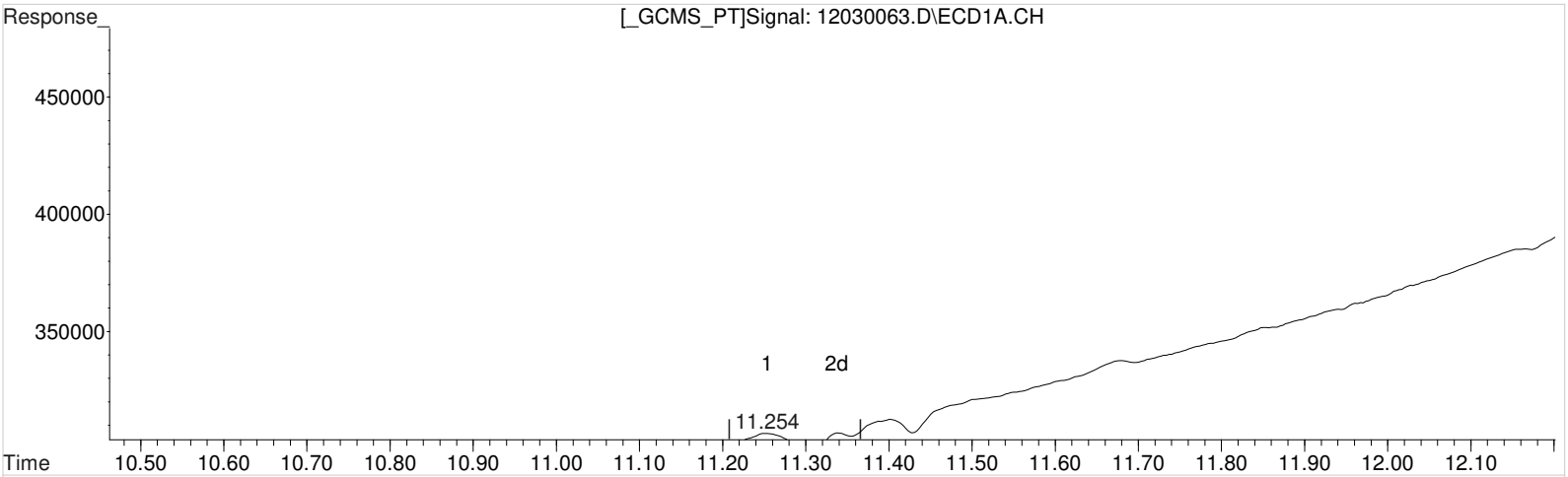
(+) = Expected Retention Time

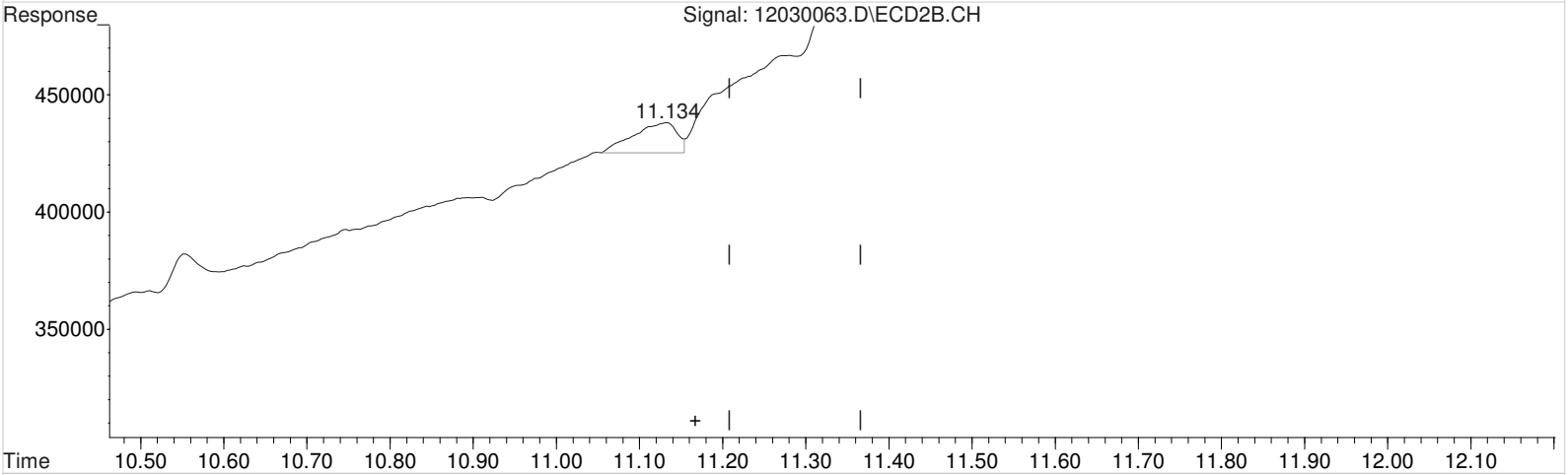
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

11.254min 3.702 ppb m

response 37984

Manual Integration:

Before

12/04/20

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

11.134min 1.622 ppb

response 47074

(+) = Expected Retention Time

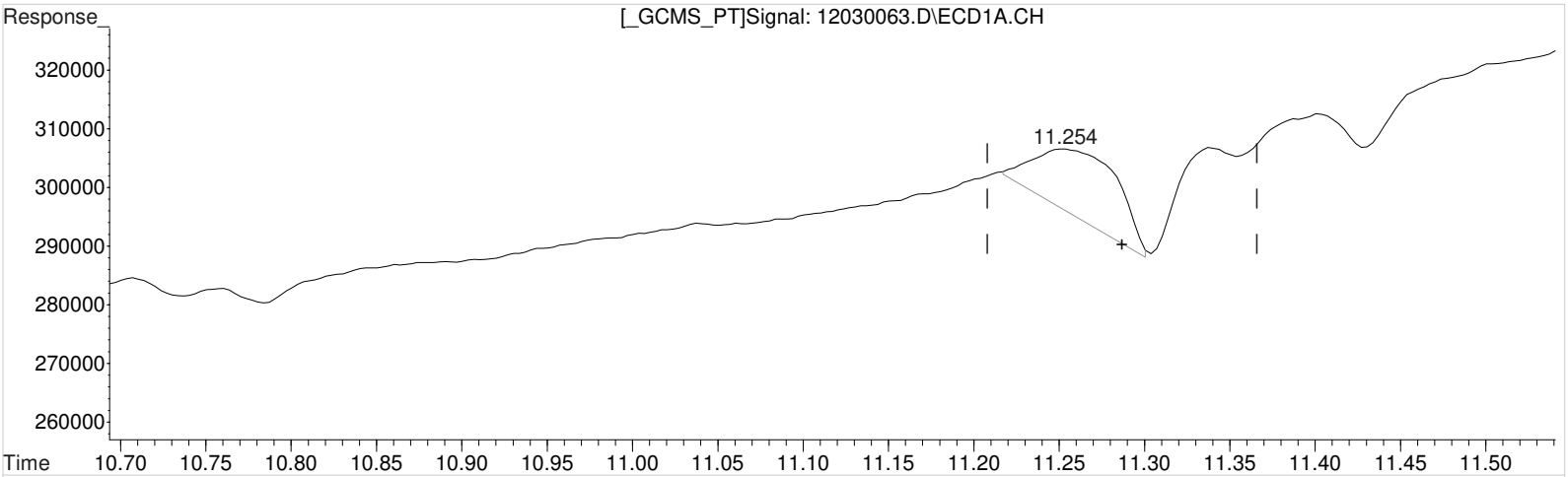
Quantitation Report (Qedit)

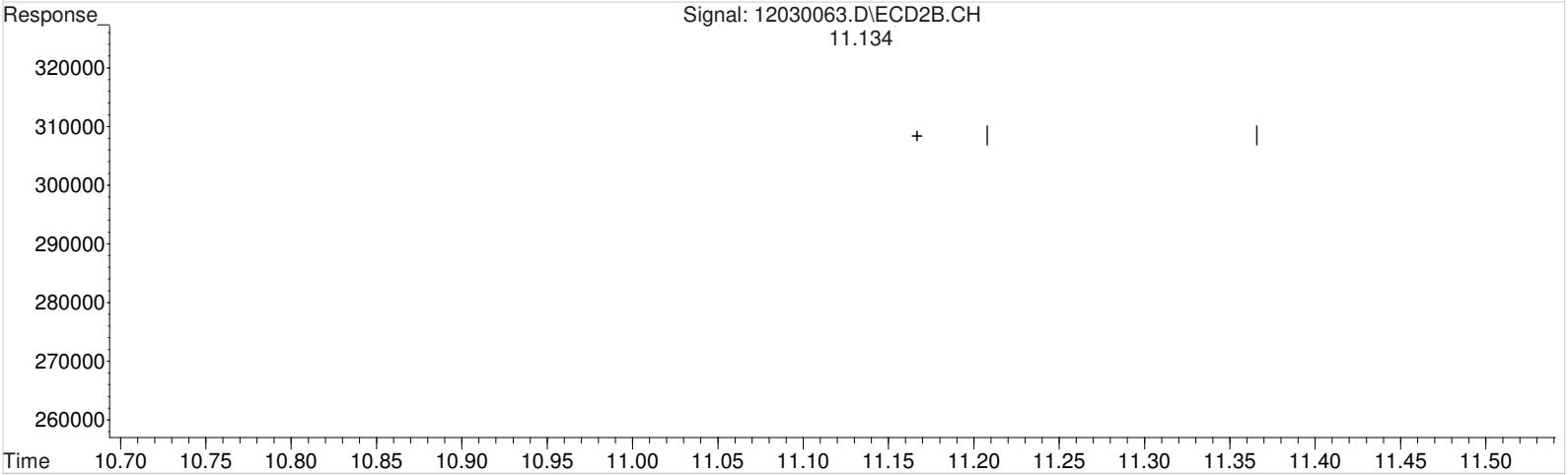
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

11.254min 3.702 ppb m

response 37984

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

11.134min 1.622 ppb

response 47074

Manual Integration:

After

Baseline/Shoulder

12/04/20

(+) = Expected Retention Time

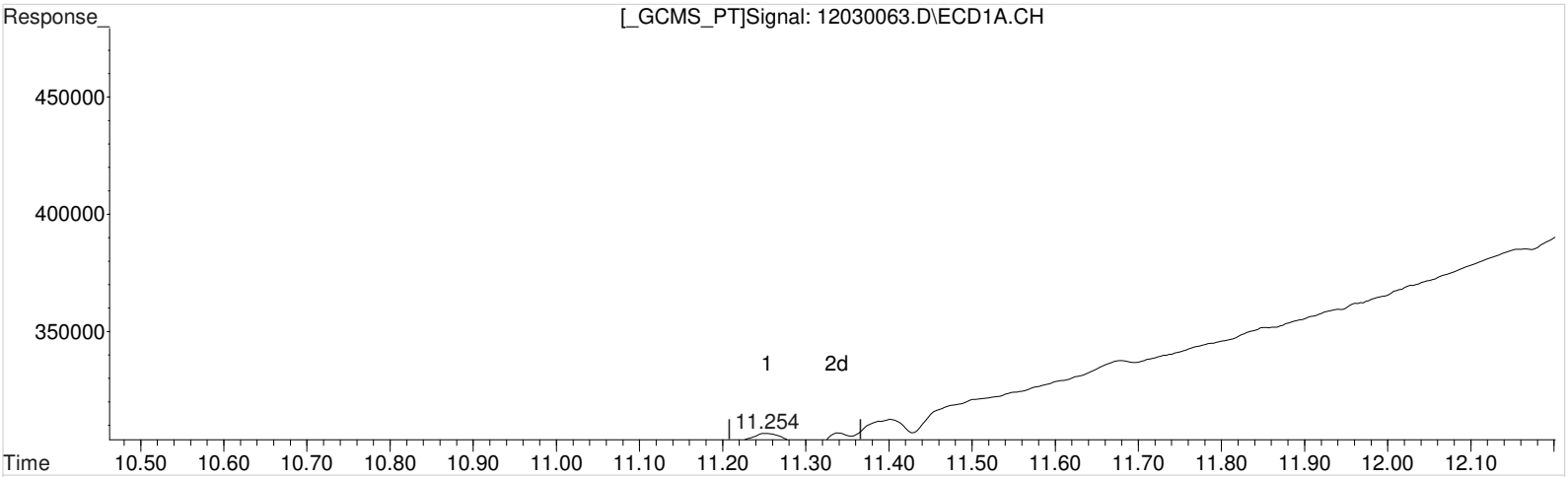
Quantitation Report (Qedit)

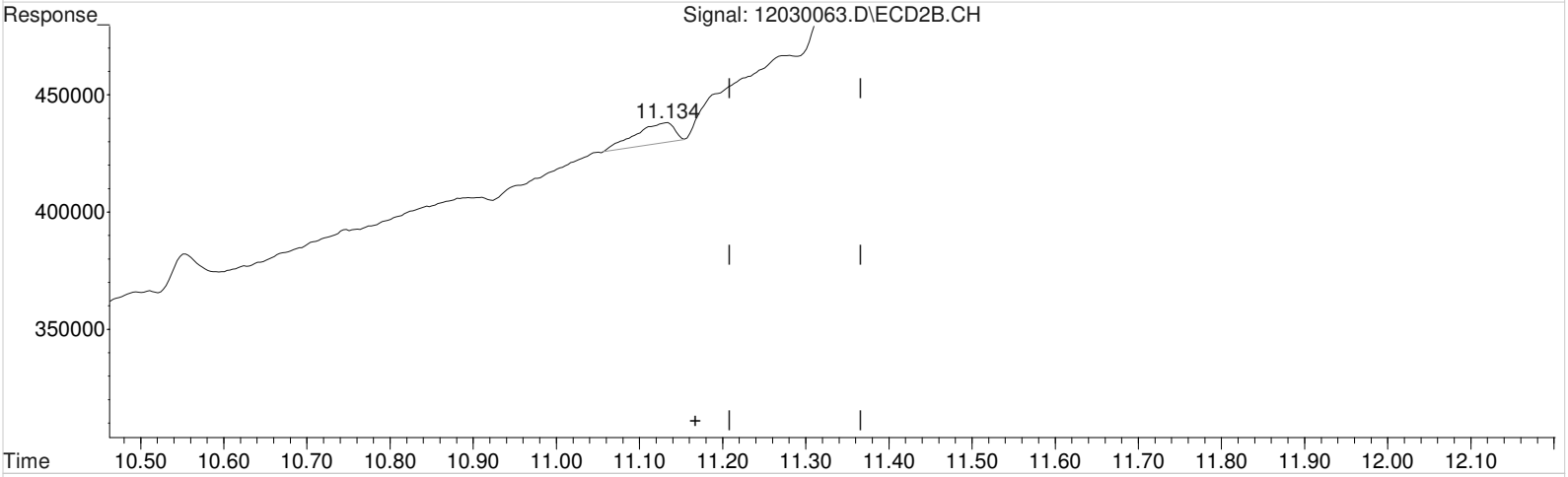
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

11.254min 3.702 ppb m

response 37984

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

11.134min 1.005 ppb m

response 29156

Manual Integration:

After

Baseline/Shoulder

12/04/20

(+) = Expected Retention Time

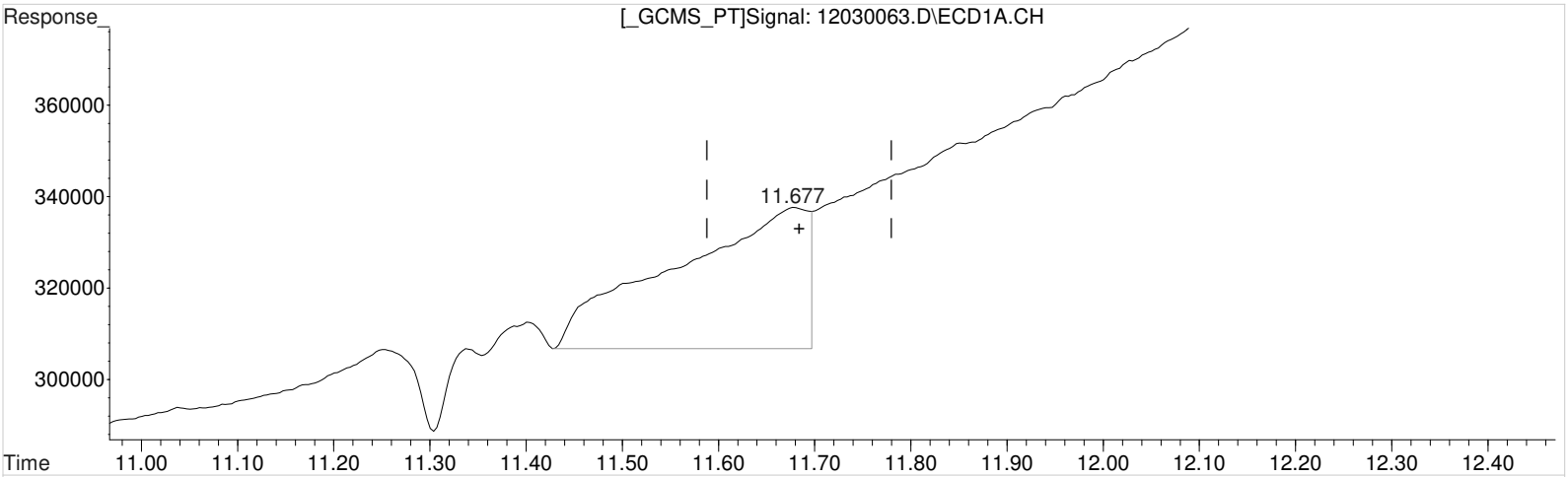
Quantitation Report (Qedit)

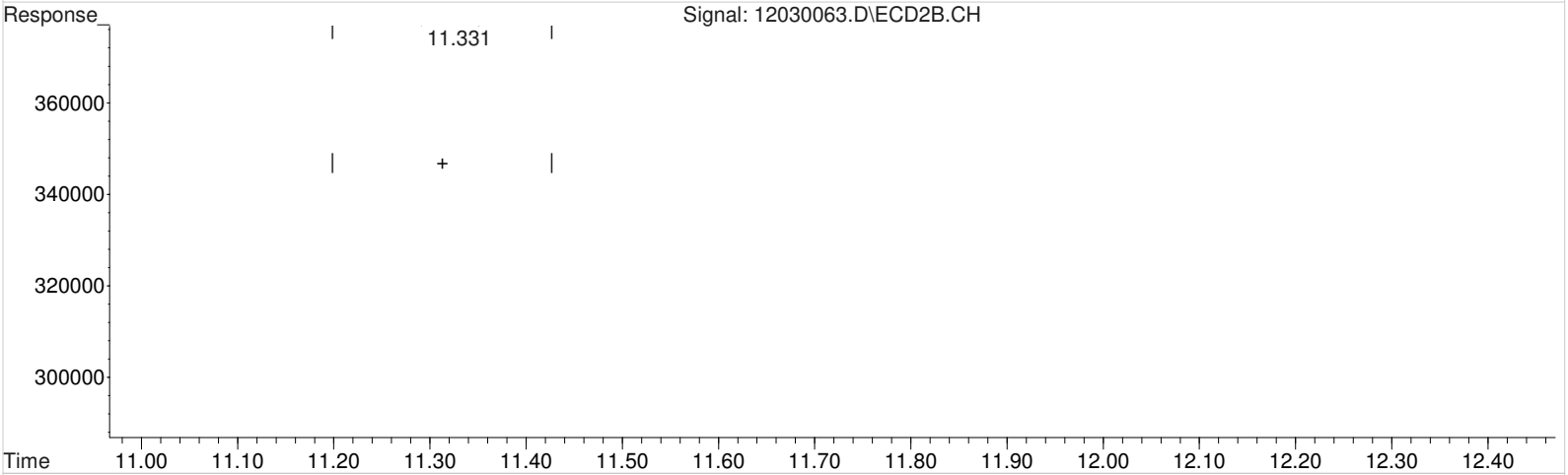
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

11.677min 4.873 ppb

response 301471

(11) Dinoseb #2 (m)

11.331min 0.417 ppb

response 57014

Manual Integration:

Before

12/04/20

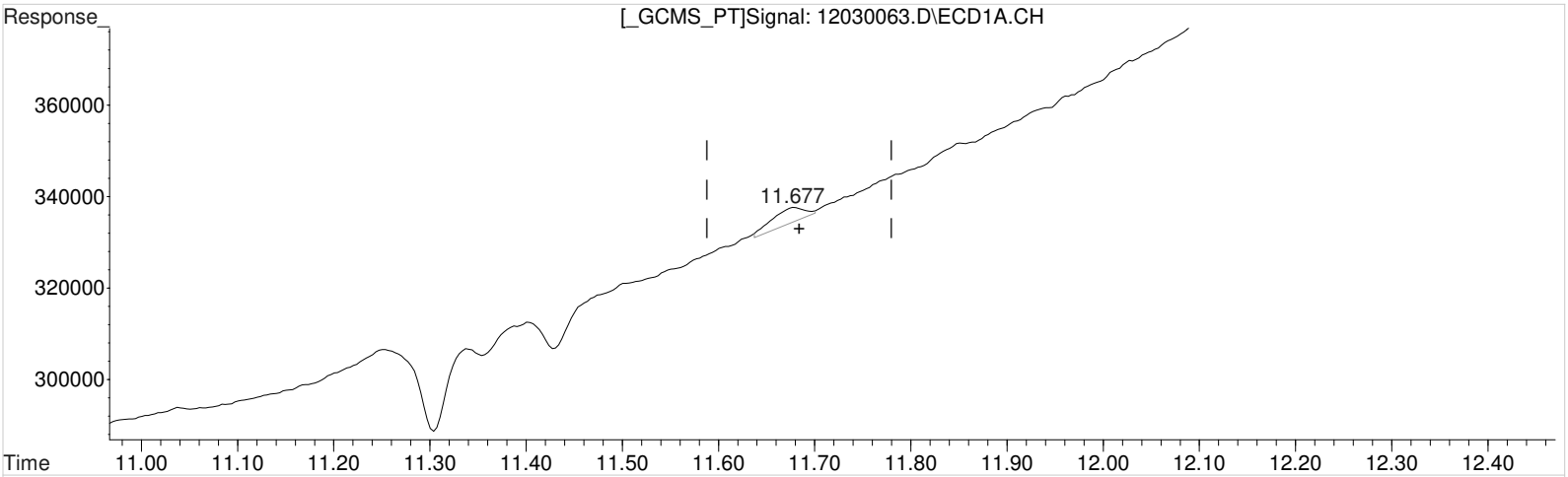
(+) = Expected Retention Time

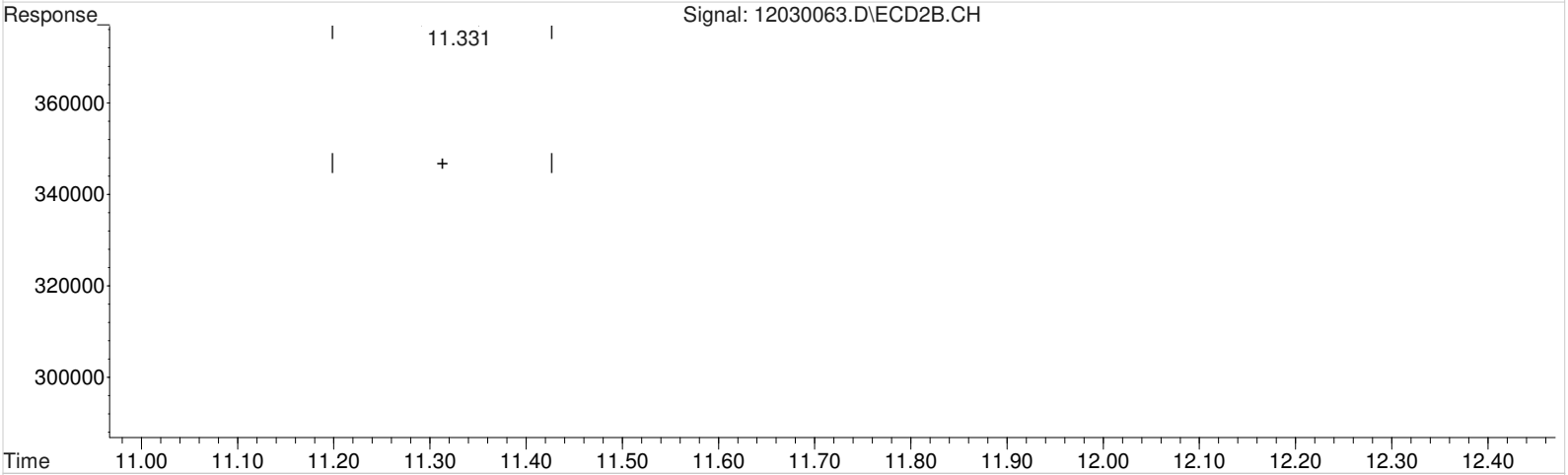
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

11.677min 0.139 ppb m

response 8622

Manual Integration:

After

Baseline/Shoulder

12/04/20

(11) Dinoseb #2 (m)

11.331min 0.417 ppb

response 57014

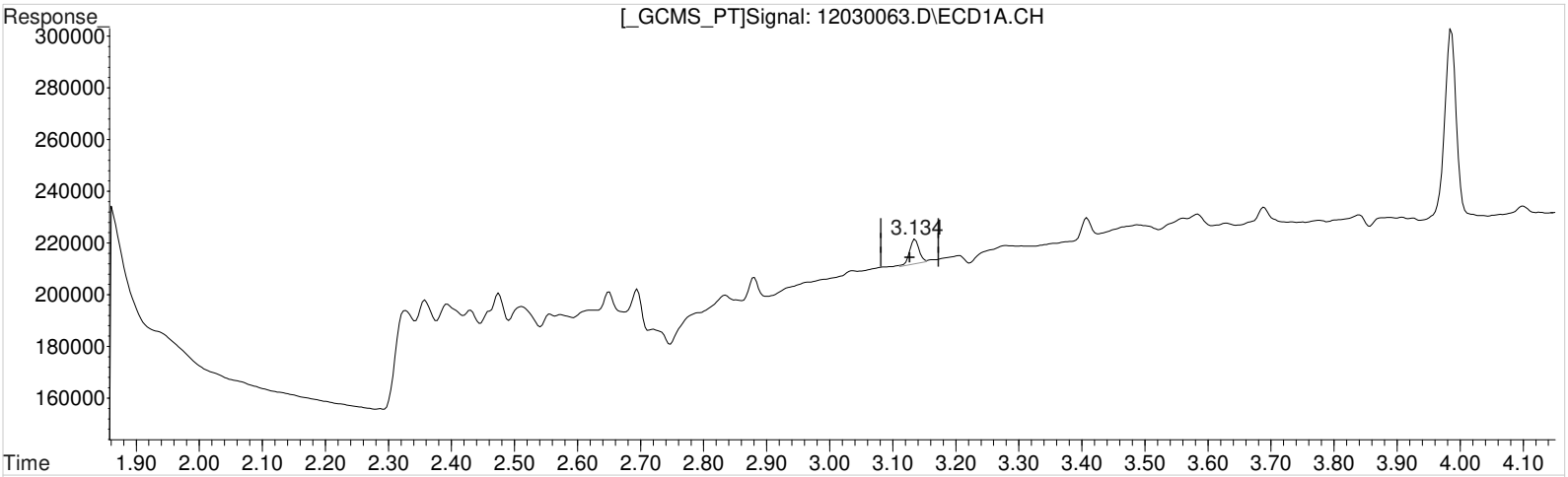
(+) = Expected Retention Time

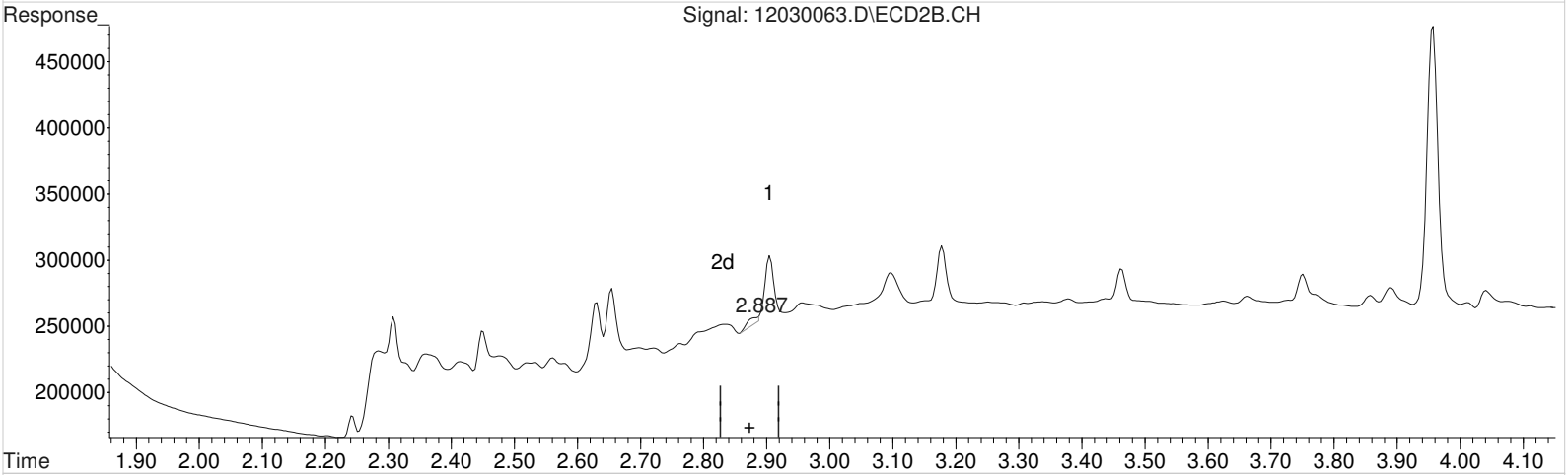
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

3.134min 0.420 ppb m

response 10198

(1) Dalapon #2 (m)

2.887min 0.157 ppb m

response 7577

Manual Integration:

After Forgot to print "Before" chromatogram

Baseline/Shoulder

12/04/20

(+) = Expected Retention Time

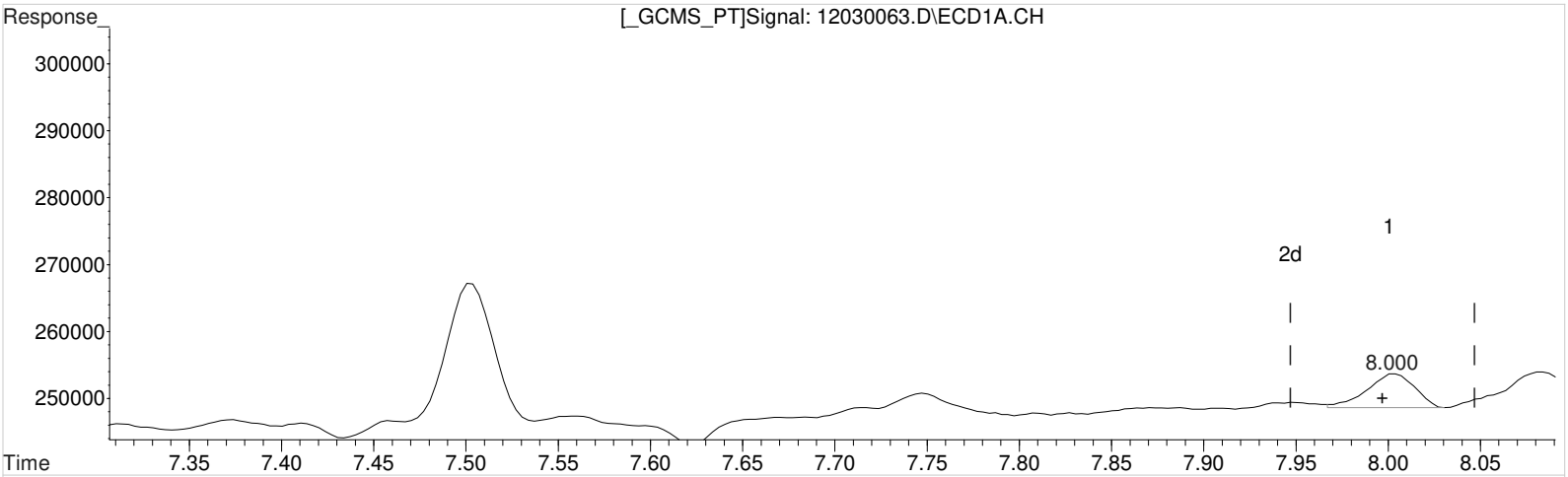
Quantitation Report (Qedit)

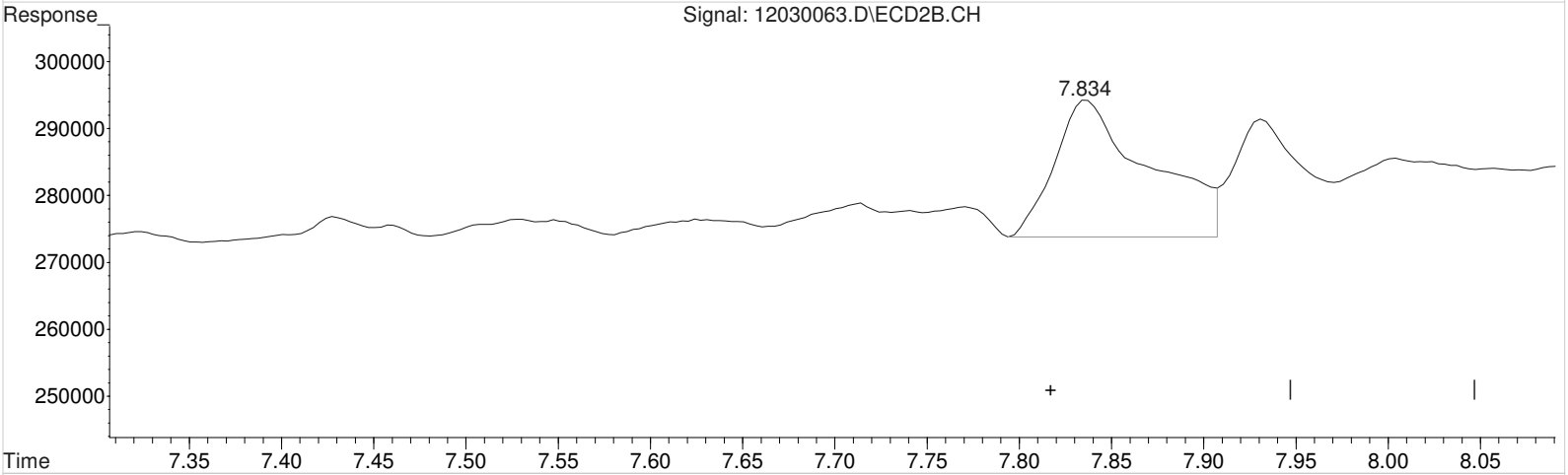
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

8.000min 0.501 ppb

response 9111

Manual Integration:

Before

12/04/20

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

7.834min 1.748 ppb

response 73940

(+) = Expected Retention Time

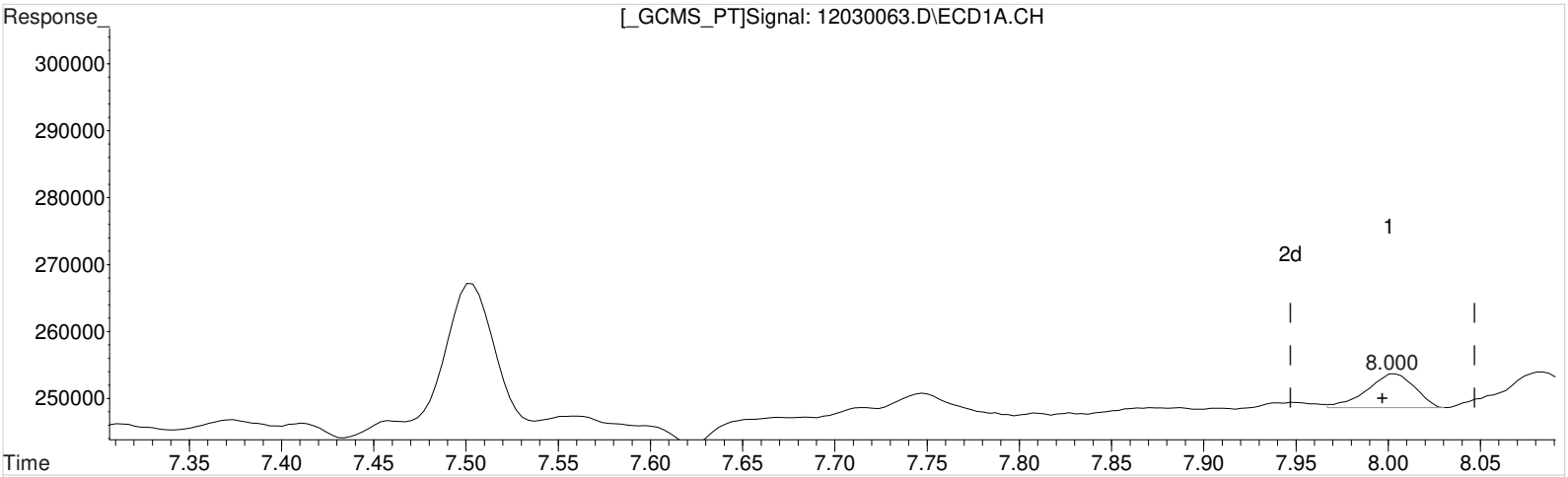
Quantitation Report (Qedit)

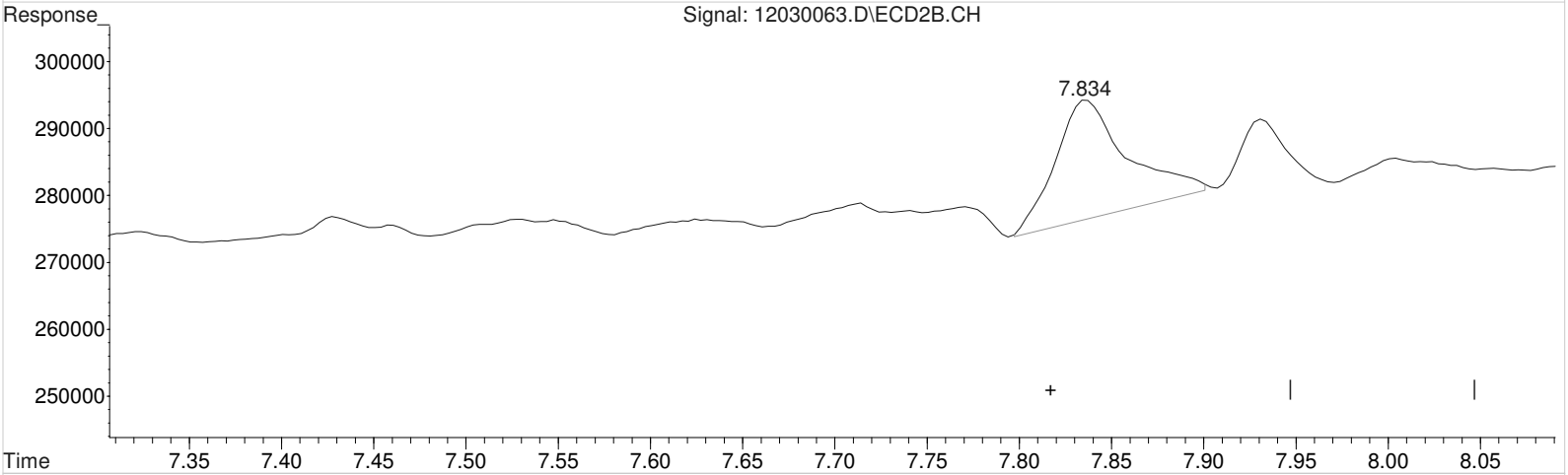
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

8.000min 0.501 ppb

response 9111

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.834min 1.163 ppb m

response 49180

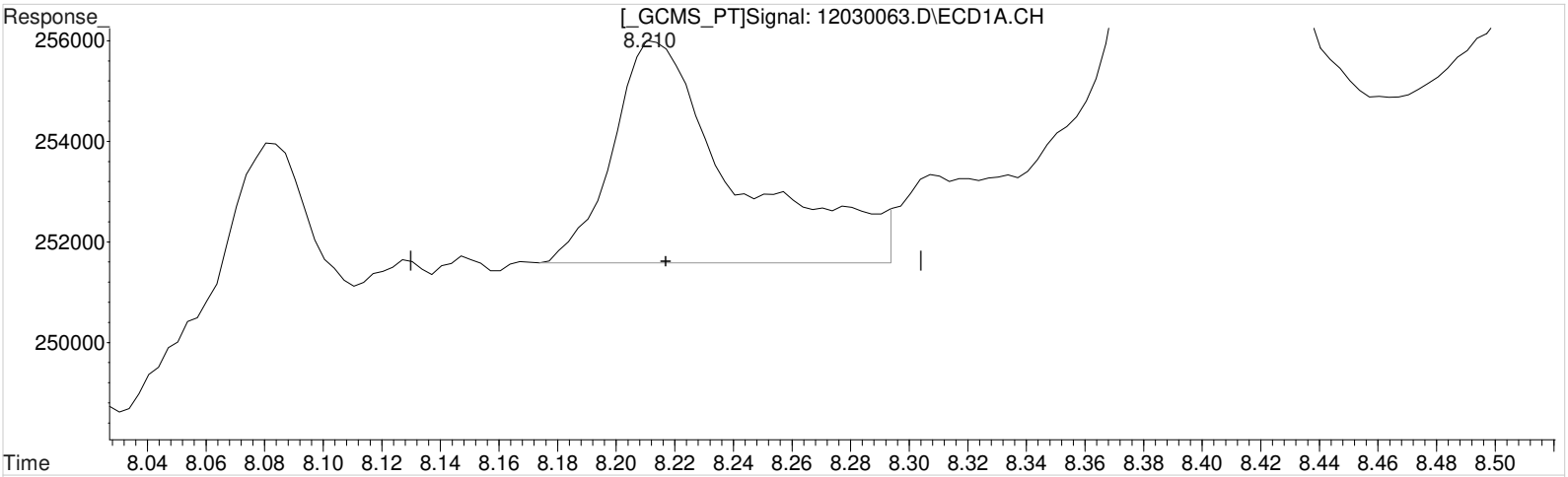
(+) = Expected Retention Time

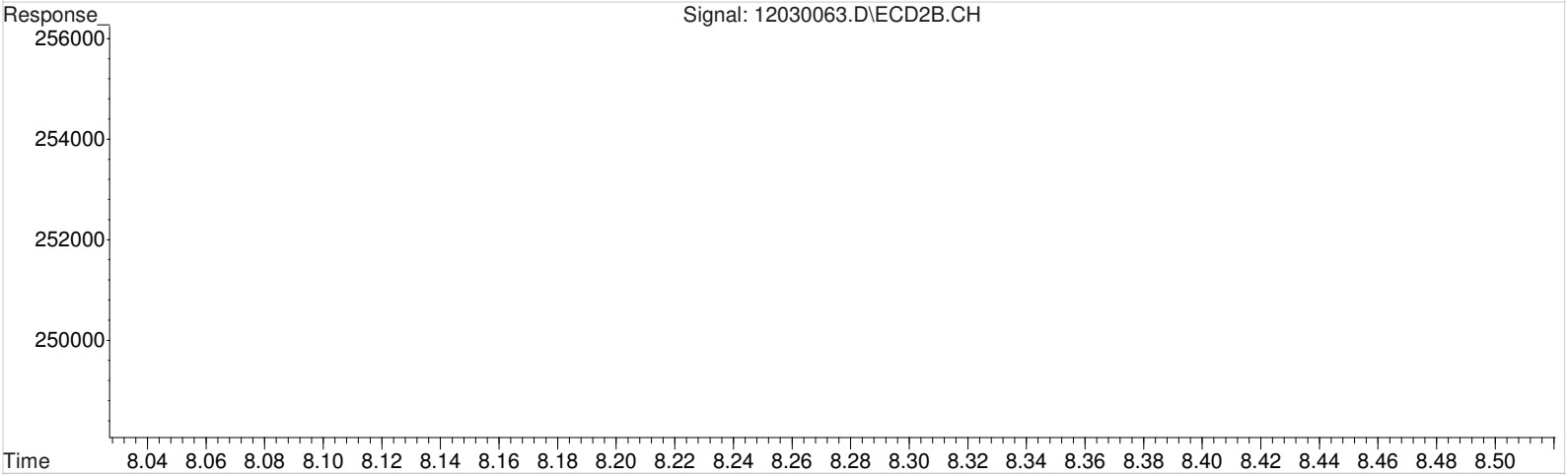
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

8.210min 0.187 ppb

response 13019

Manual Integration:

Before

12/04/20

(3) Dicamba #2 (m)

7.931min 0.124 ppb

response 18352

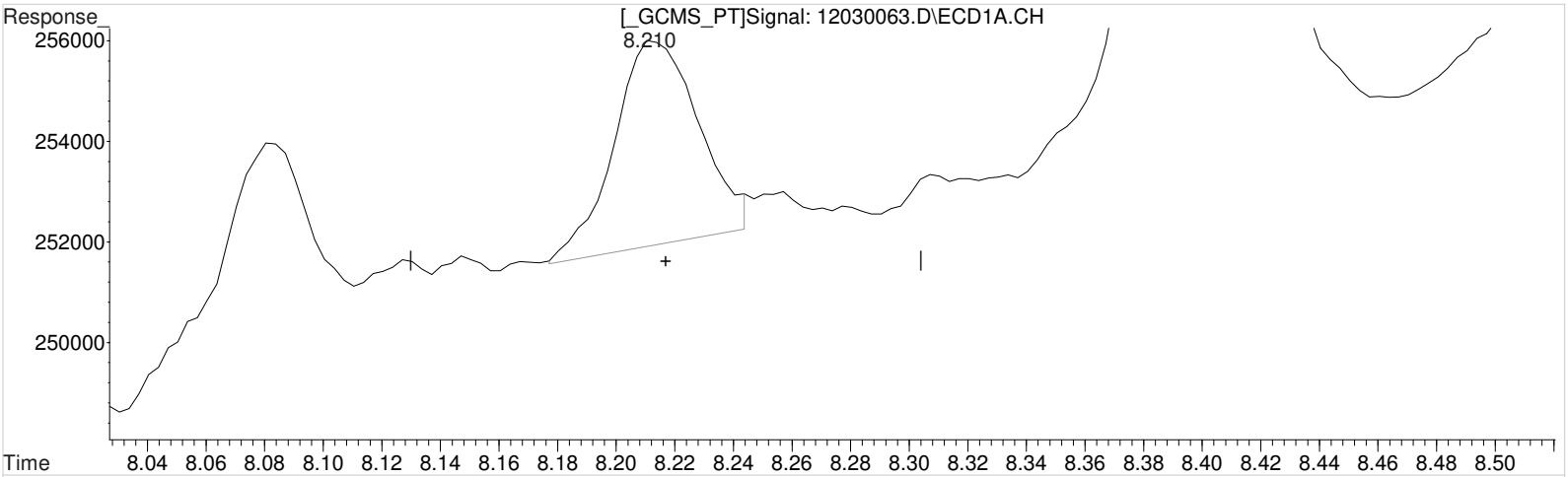
(+) = Expected Retention Time

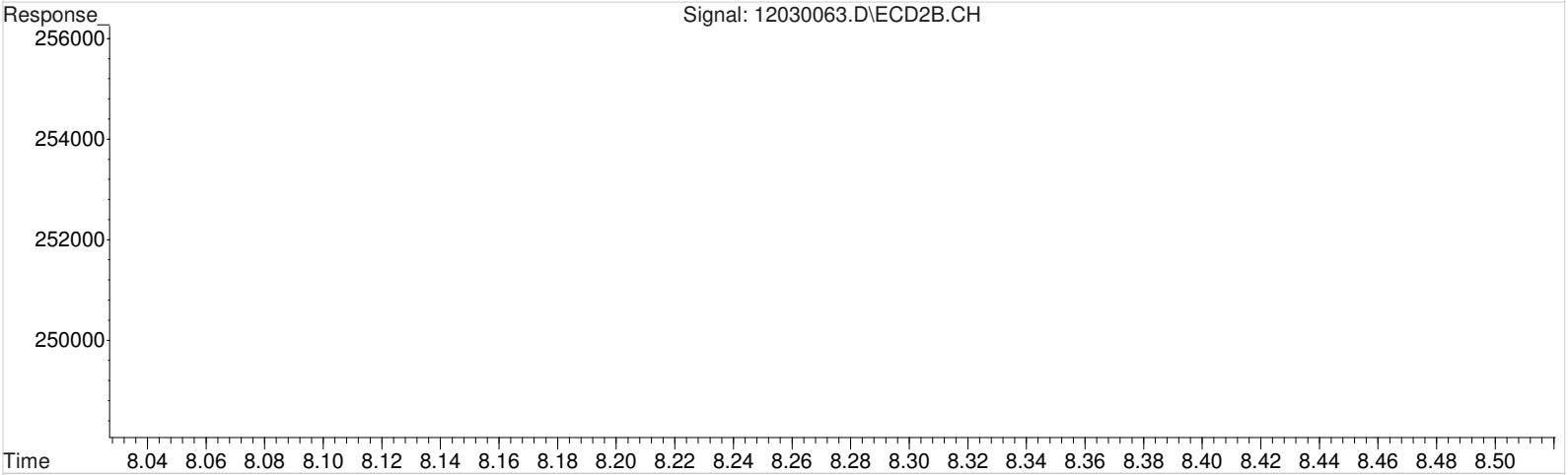
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

8.210min 0.118 ppb m

response 8241

Manual Integration:

After

Baseline/Shoulder

12/04/20

(3) Dicamba #2 (m)

7.931min 0.124 ppb

response 18352

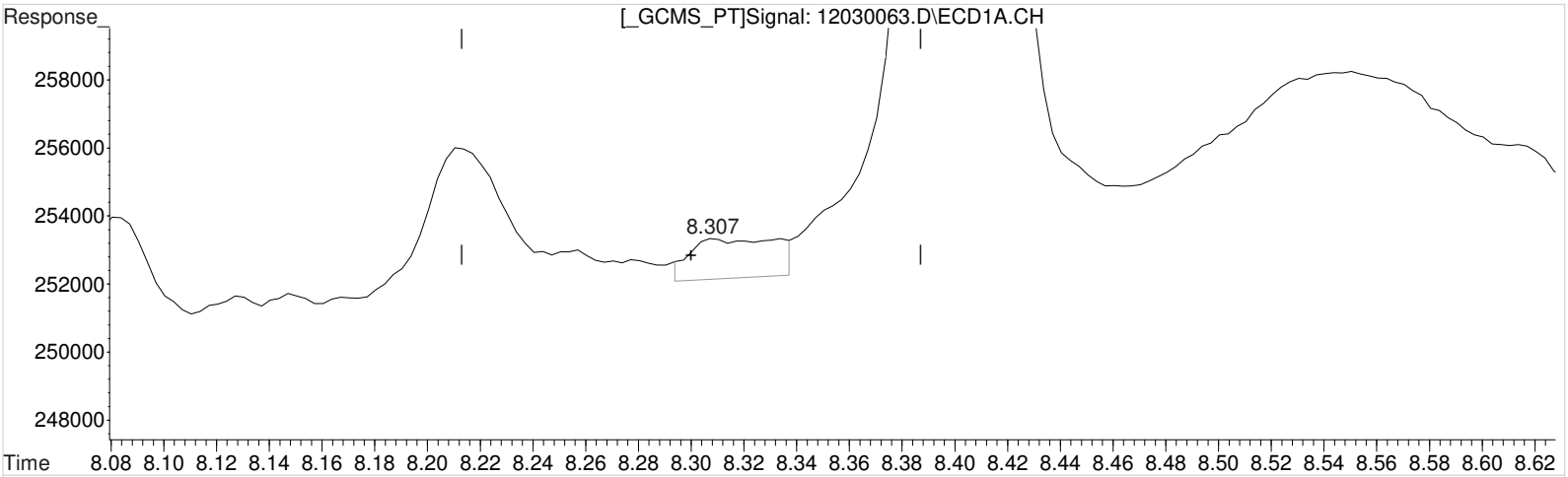
(+) = Expected Retention Time

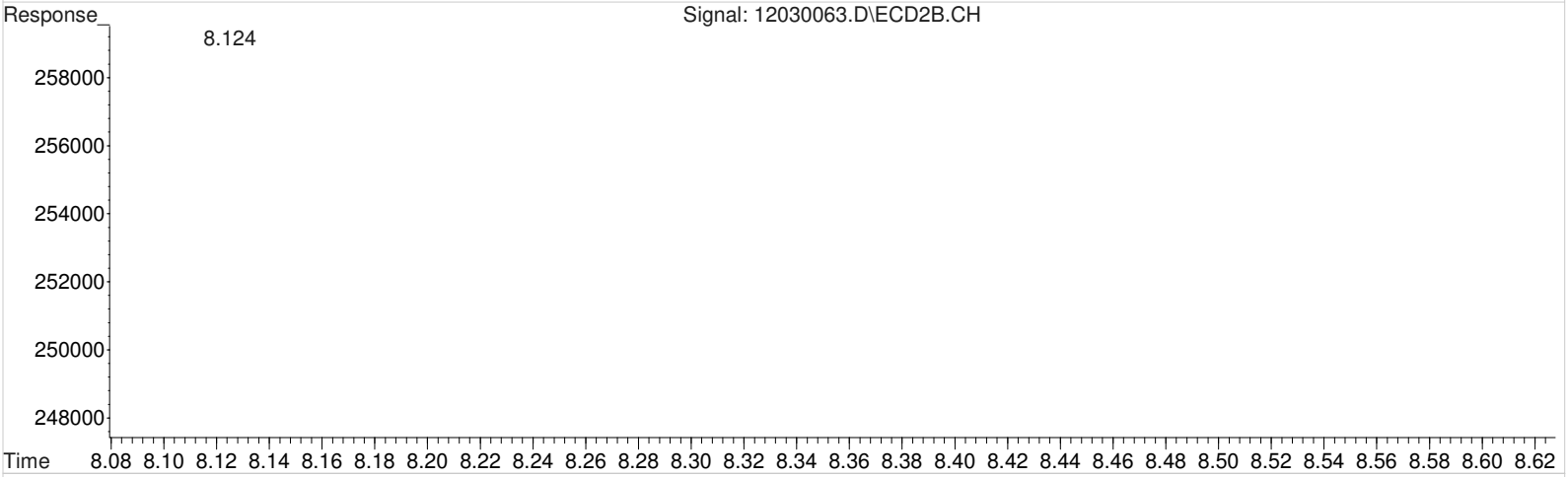
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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

(4) MCPP (m)

8.307min 566.470 ppb

response 2681

(4) MCPP #2 (m)

8.124min -1375.106 ppb

response 6315

Manual Integration:

Before

12/04/20

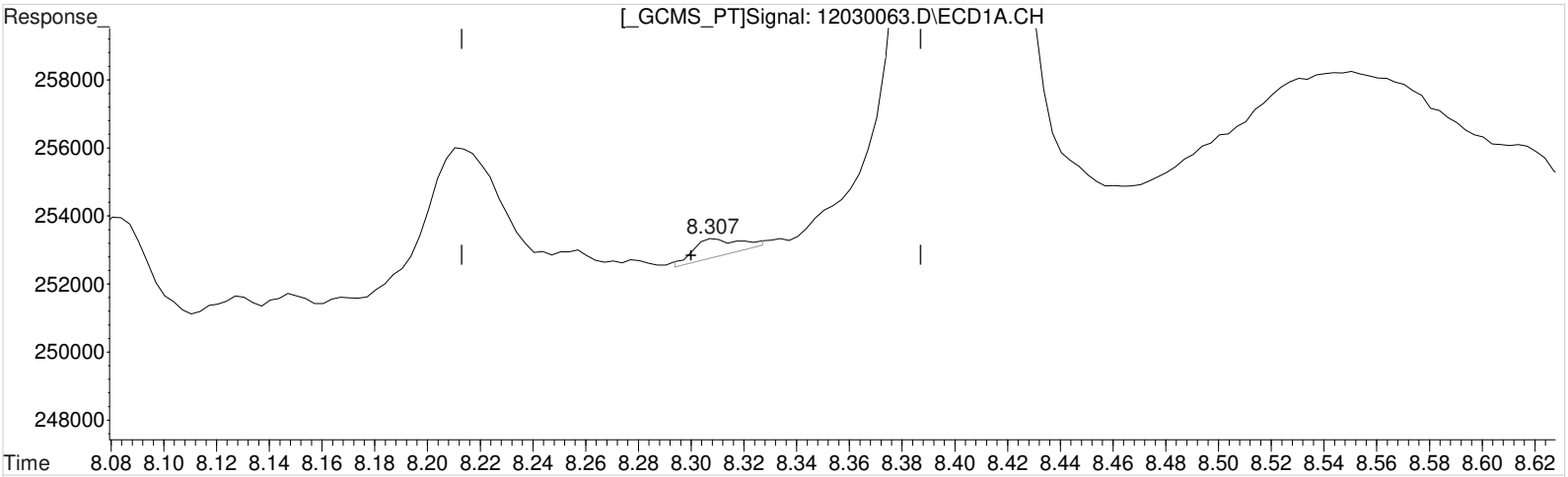
(+) = Expected Retention Time

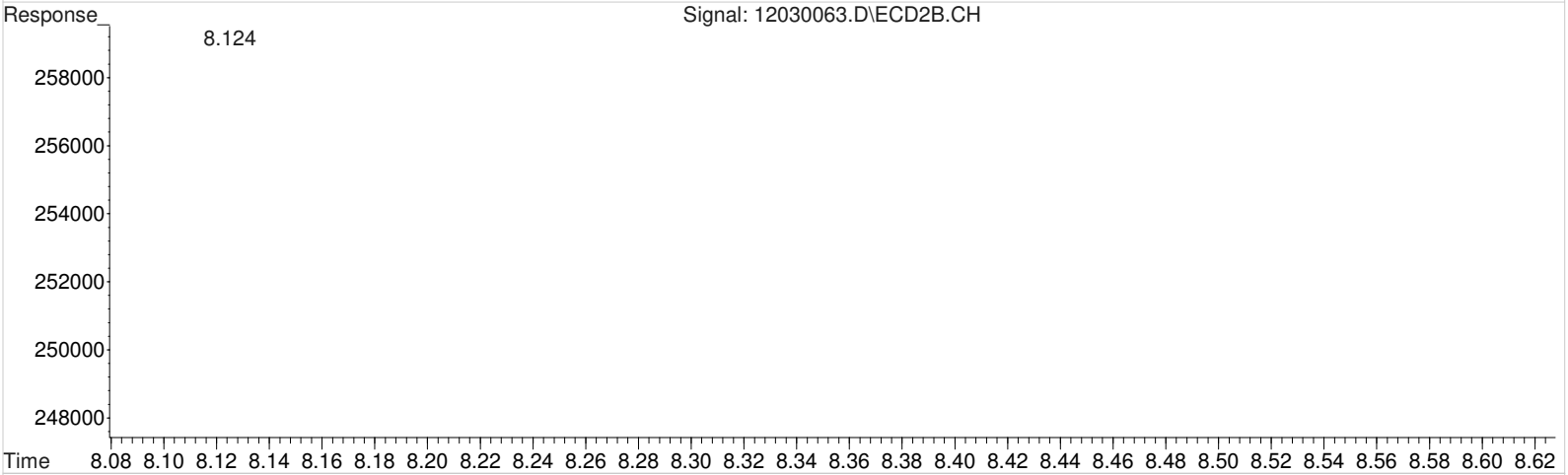
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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

(4) MCPP (m)

8.307min 524.184 ppb m

response 716

Manual Integration:

After

Baseline/Shoulder

12/04/20

(4) MCPP #2 (m)

8.124min -1375.106 ppb

response 6315

(+) = Expected Retention Time

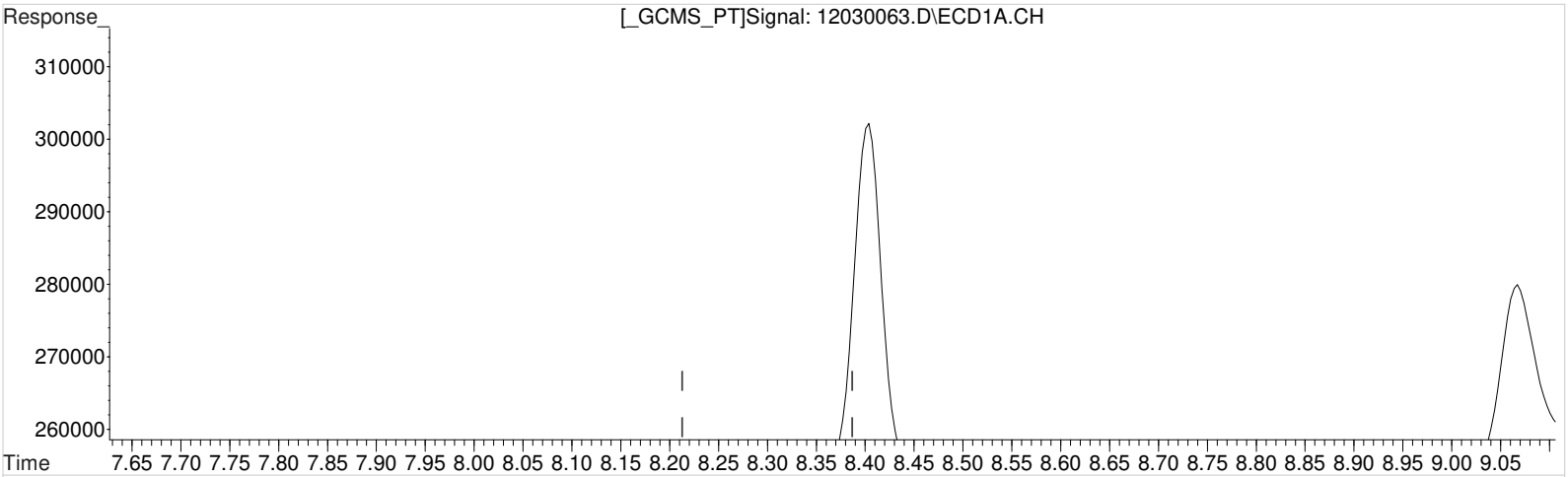
Quantitation Report (Qedit)

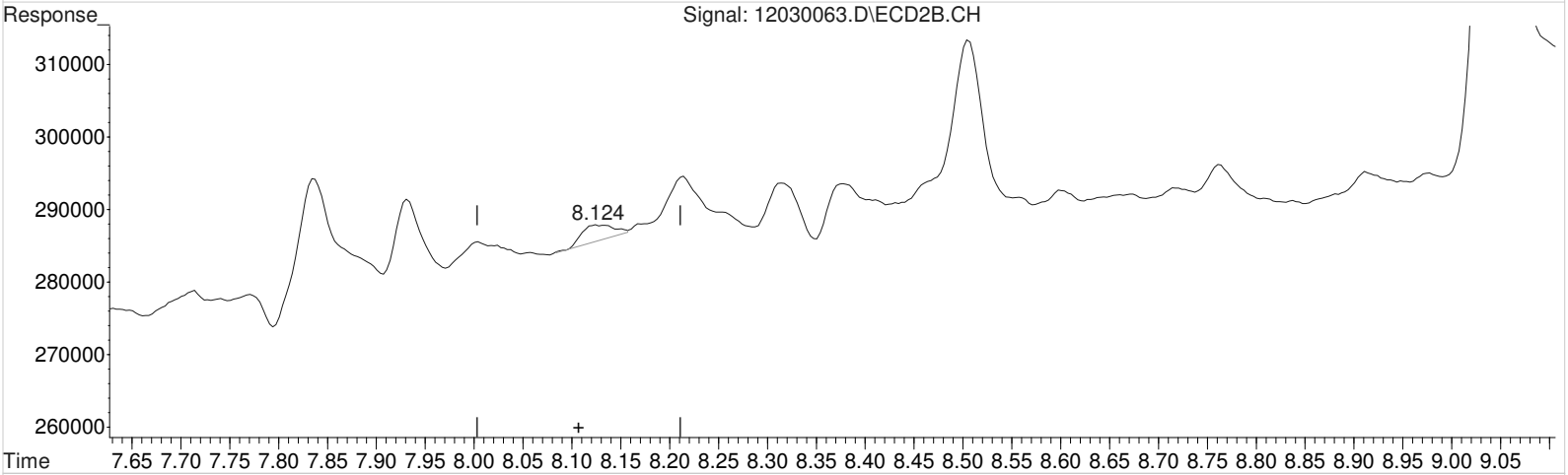
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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

(4) MCPP (m)

8.307min 524.184 ppb m

response 716

(4) MCPP #2 (m)

8.124min -1380.836 ppb m

response 5486

Manual Integration:

After Forgot to print "Before" chromatogram

Baseline/Shoulder

12/04/20

(+) = Expected Retention Time

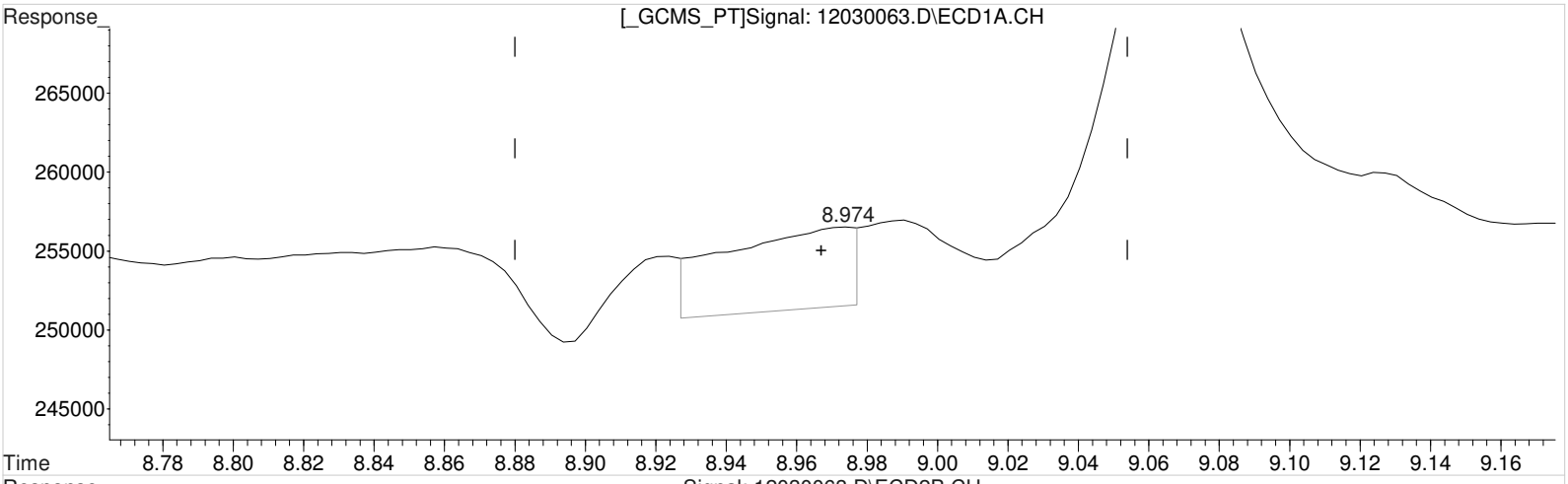
Quantitation Report (Qedit)

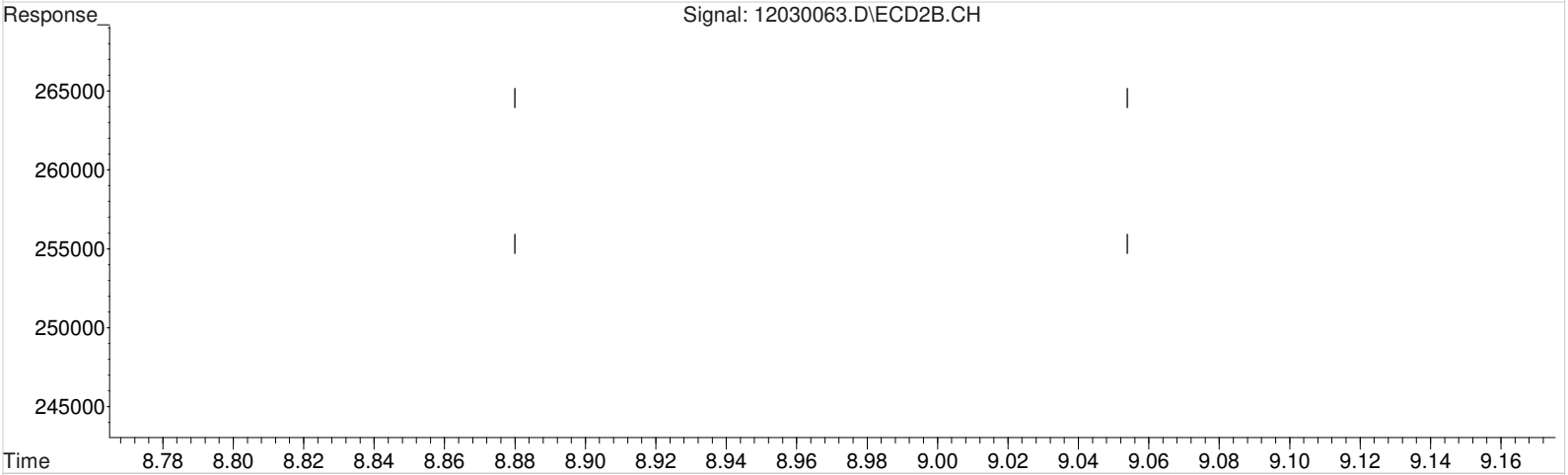
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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

(6) Dichloroprop (m)

8.974min 0.717 ppb

response 13368

Manual Integration:

Before

12/04/20

(6) Dichloroprop #2 (m)

8.761min 0.211 ppb

response 8799

(+) = Expected Retention Time

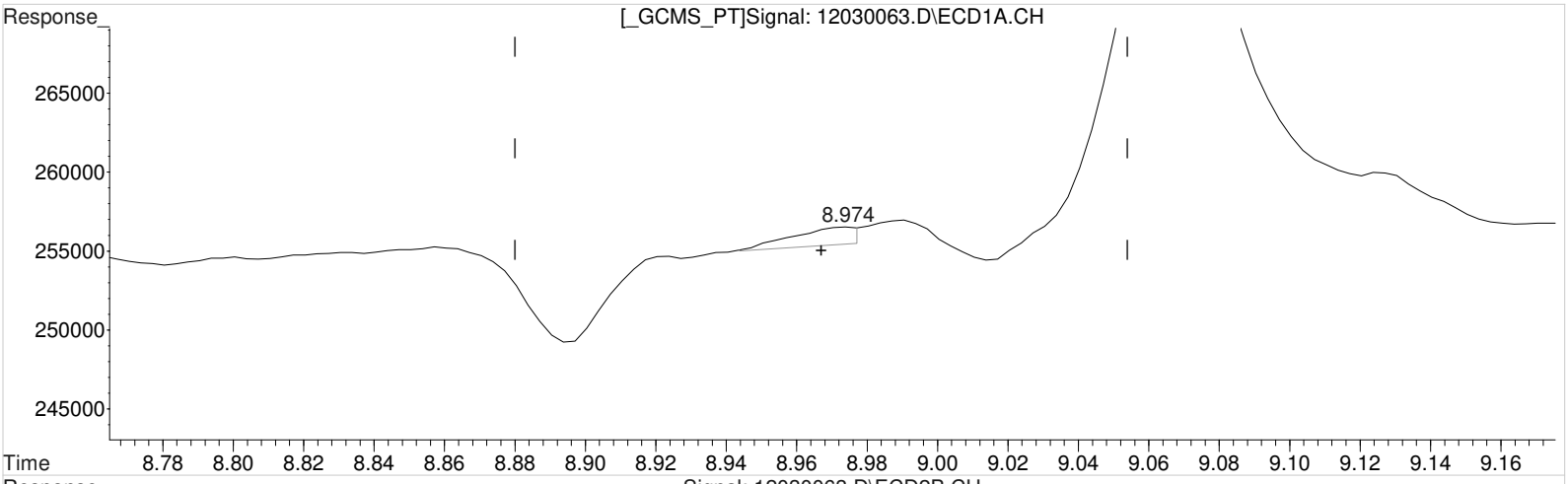
Quantitation Report (Qedit)

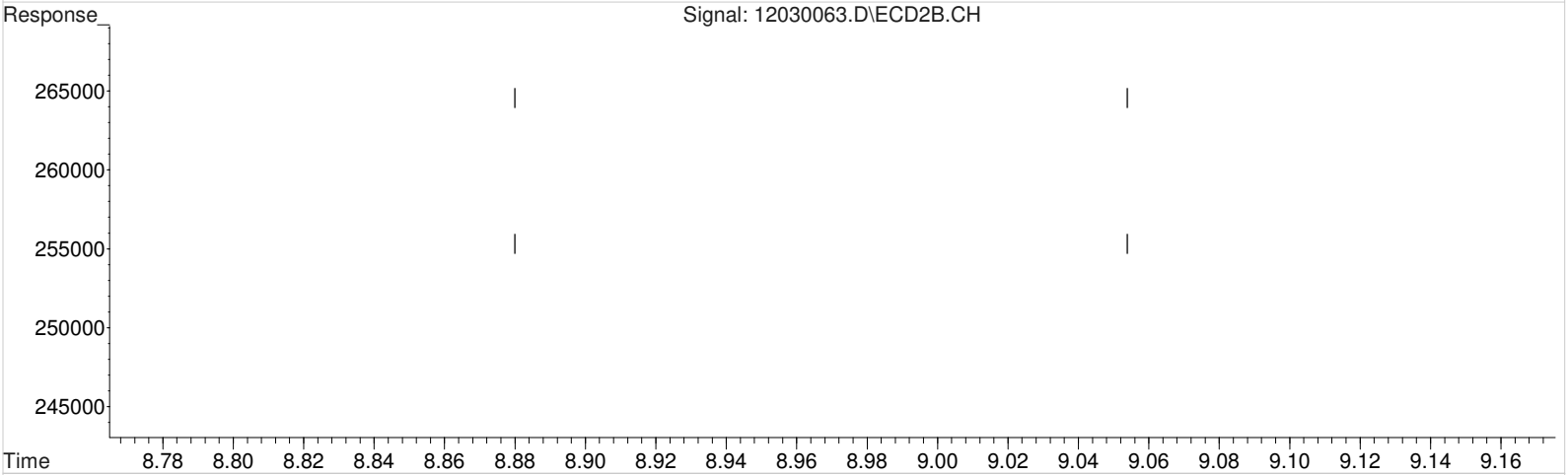
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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

(6) Dichloroprop (m)

8.974min 0.082 ppb m

response 1529

Manual Integration:

After

Baseline/Shoulder

12/04/20

(6) Dichloroprop #2 (m)

8.761min 0.211 ppb

response 8799

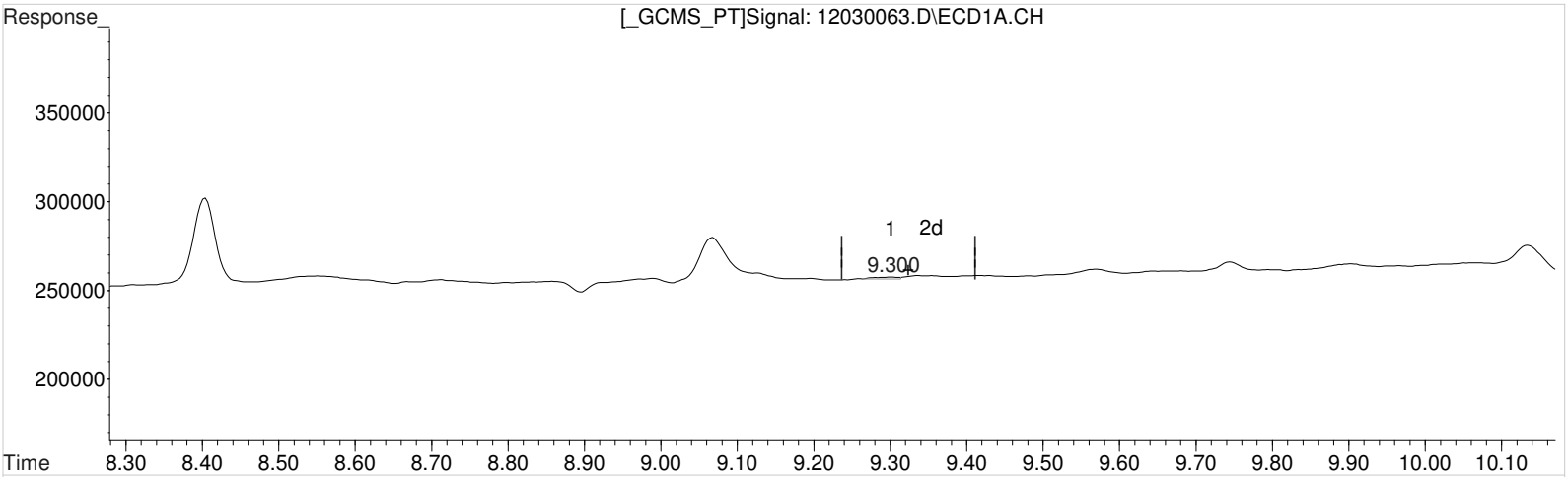
(+) = Expected Retention Time

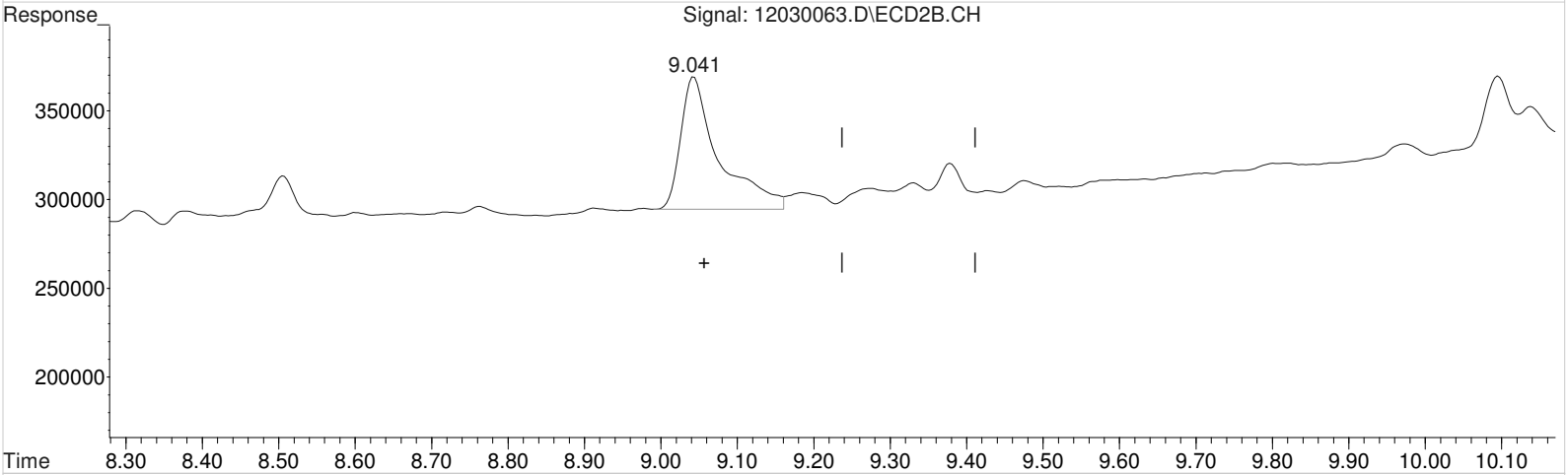
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

9.300min 0.104 ppb

response 2211

Manual Integration:

Before

12/04/20

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

9.041min 5.061 ppb

response 259122

(+) = Expected Retention Time

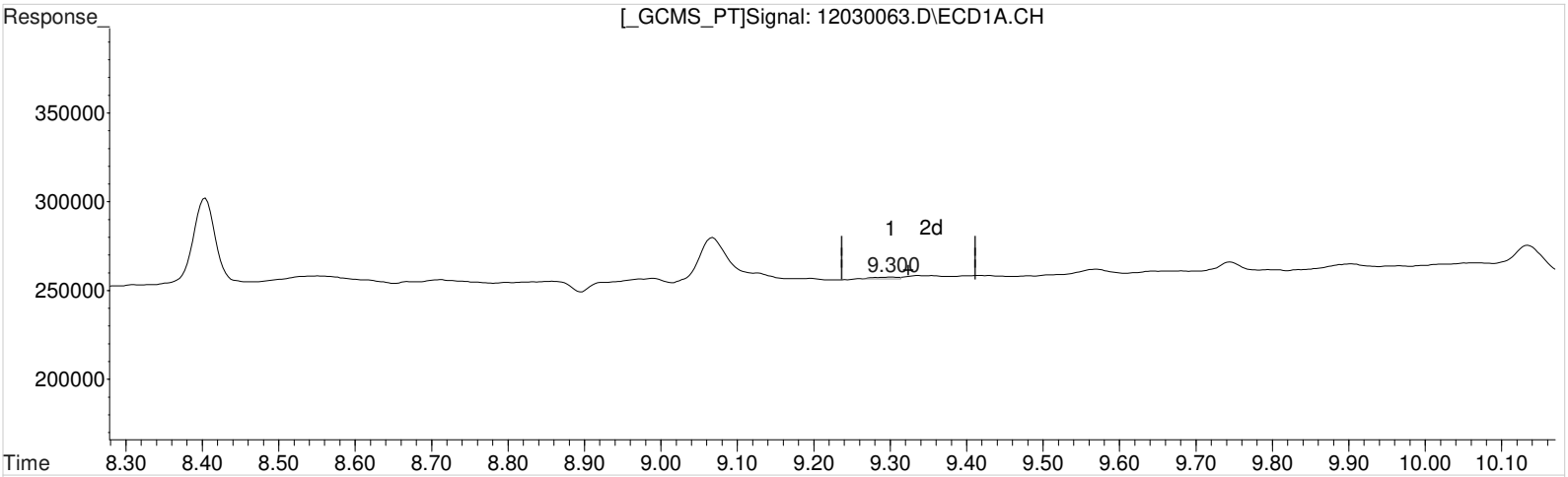
Quantitation Report (Qedit)

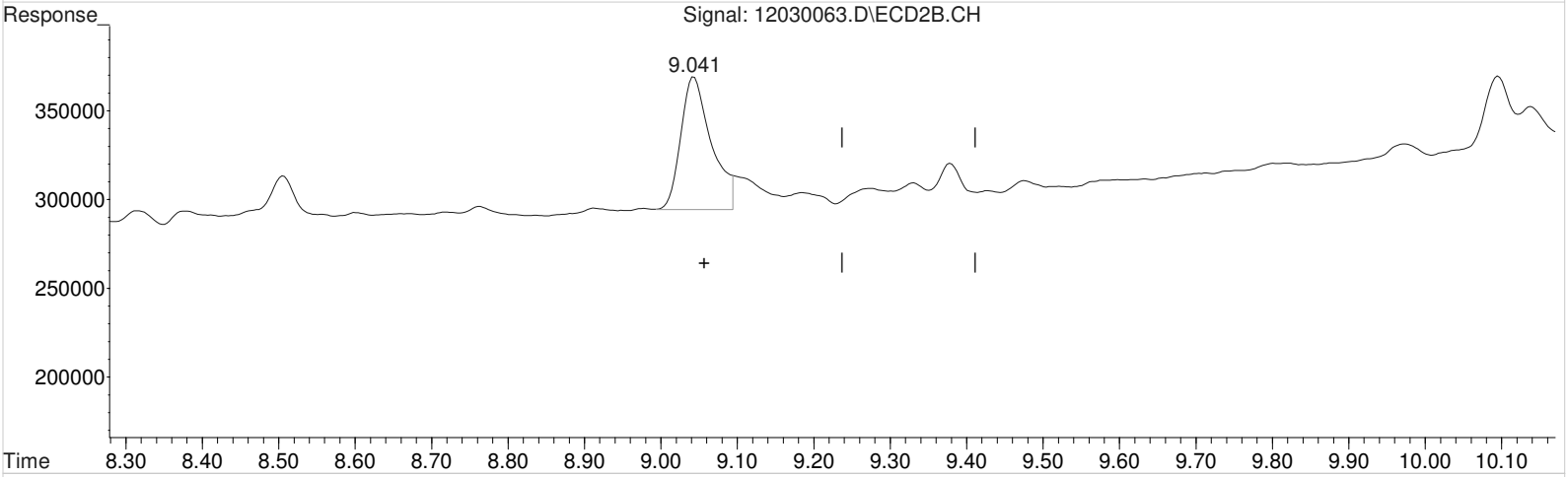
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

9.300min 0.104 ppb

response 2211

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

9.041min 4.105 ppb m

response 210181

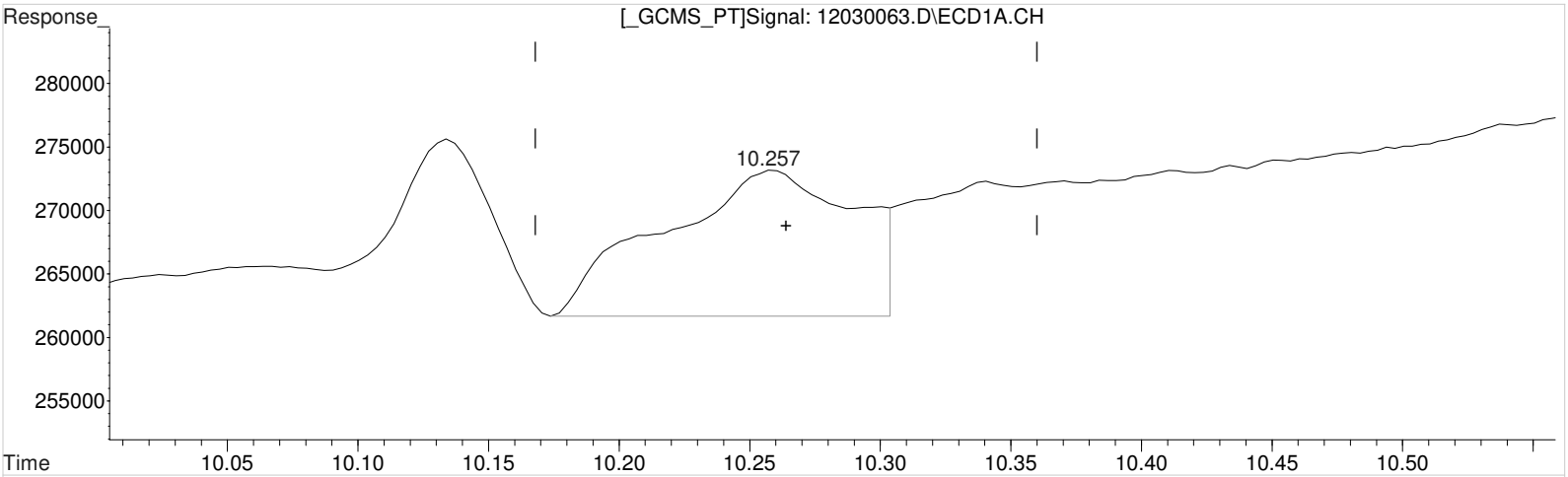
(+) = Expected Retention Time

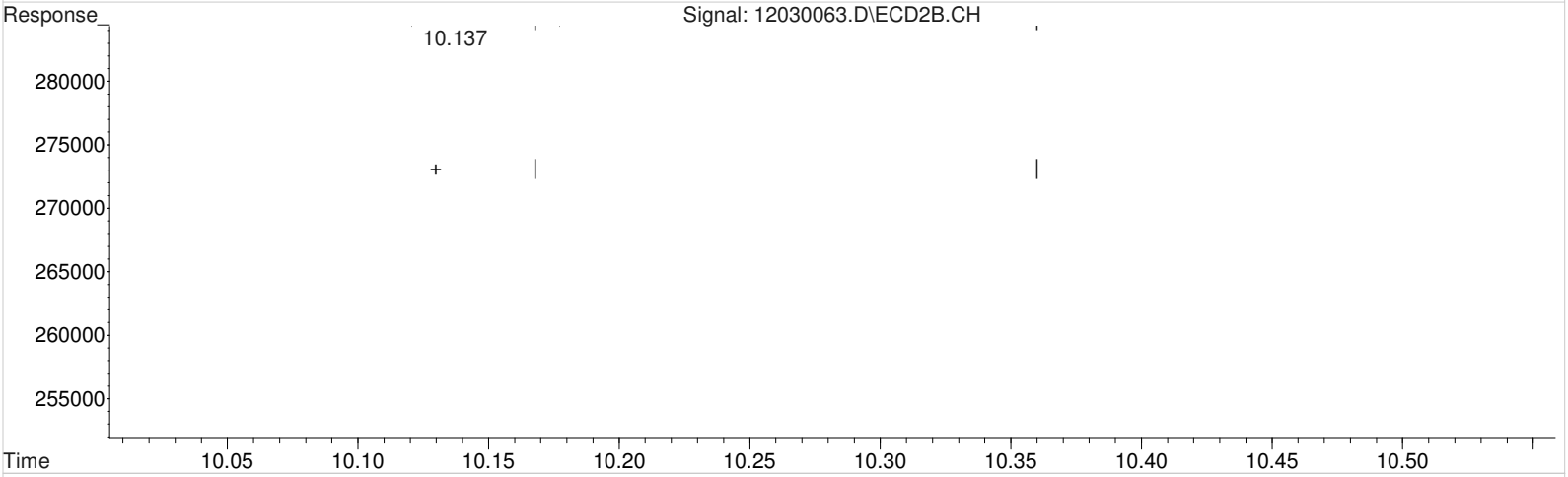
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

10.257min 0.634 ppb

response 59370

Manual Integration:

Before

12/04/20

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

10.137min 0.158 ppb

response 31987

(+) = Expected Retention Time

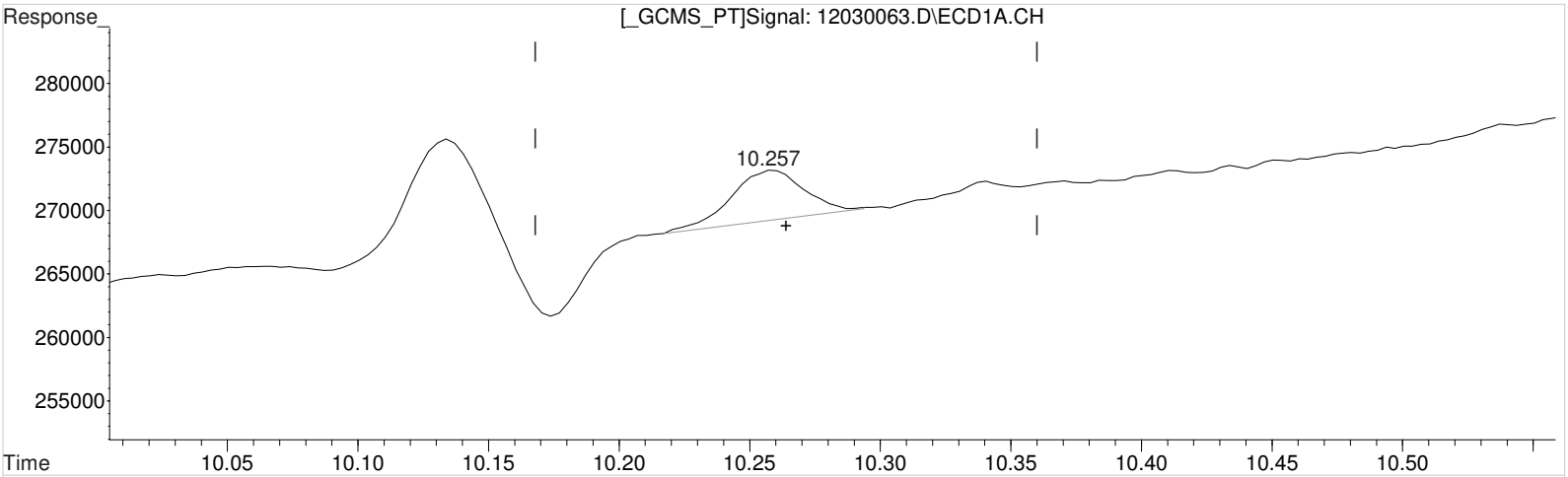
Quantitation Report (Qedit)

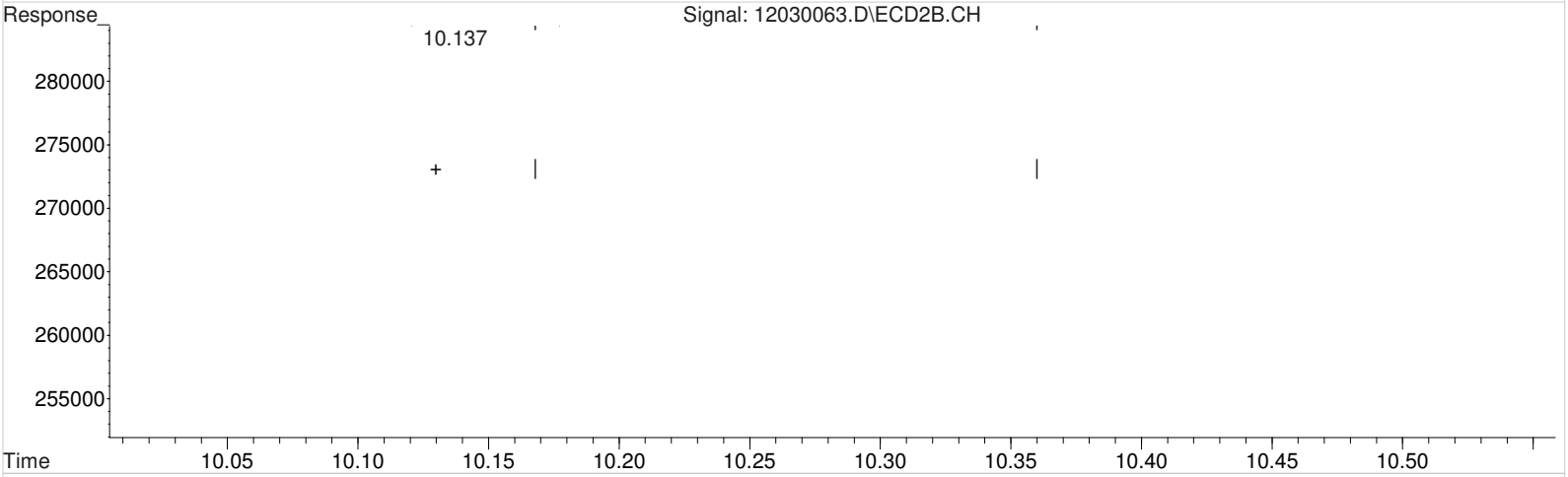
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030063.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:29 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 04 14:59:40 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 17:31:59 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)

10.257min 0.084 ppb m

response 7896

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

10.137min 0.158 ppb

response 31987

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030040.D\
Lab ID: KQ2019401-01
RunType: CCV
Matrix: Soil

Date Acquired: 12/4/20 03:42:00
Batch ID: 705934
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

1st UA 12/07/20
2nd SM 12/08/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030040.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 03:42:00	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019401-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
Analysis	8151A	**Prep Method:**			
		Prep Date:			

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	7.99	7.83	1744293	4456107	95.858	105.351			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-TP	10.26	10.14	9604811	25212428	102.527	124.200	103	124	Y
2,4-D	9.32	9.07	2142119	6092939	100.852	119.006	101	119	Y

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

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

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

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

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1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030040.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 03:42:00	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019401-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
2,4-Dichlorophenylacetic Acid	7.99	7.83	1744293	4456107	95.858	105.351			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-T	10.70	10.54	7902735	23115836	95.780	120.793	95.8	121	Y
2,4,5-TP (Silvex)	10.26	10.14	9604811	25212428	102.527	124.200	103	124	Y
2,4-D	9.32	9.07	2142119	6092939	100.852	119.006	101	119	Y
2,4-DB	11.28	11.18	880575	3021280	85.831	104.125	85.8	104	Y
Dalapon	3.13	2.88	2145697	4771575	88.452	98.764	88.5	98.8	Y
Dicamba	8.21	7.93	6881025	16438798	98.582	110.913	98.6	111	Y
Dichlorprop	8.96	8.76	1798498	4665315	96.446	111.838	96.4	112	Y
Dinoseb	11.68	11.33	6017725	16929345	97.270	123.792	97.3	124	Y
MCPA	8.56	8.36	625156	2739461	10676.841	12599.927	10700	12600	Y
MCPP	8.30	8.12	450011	1879475	10192.641	11571.019	10200	11600	Y

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

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

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

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

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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030040.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 3:42 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: Dec 04 11:07:47 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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.992	7.826	1744293	4456107	95.858	105.351	
		Target Compounds							
1)	m	Dalapon	3.126	2.876	2145697	4771575	88.452m	98.764m	
3)	m	Dicamba	8.212	7.929	6881025	16438798	98.582	110.913	
4)	m	MCPP	8.299	8.119	450011	1879475	10192.641	11571.019	
5)	m	MCPA	8.562	8.363	625156	2739461	10676.841	12599.927	
6)	m	Dichloroprop	8.962	8.763	1798498	4665315	96.446	111.838	
7)	m	2,4-D	9.319	9.069	2142119	6092939	100.852	119.006	
8)	m	2,4,5-TP ...	10.259	10.139	9604811	25212428	102.527	124.200	
9)	m	2,4,5-T	10.702	10.543	7902735	23115836	95.780	120.793	#
10)	m	2,4-DB	11.282	11.176	880575	3021280	85.831	104.125	
11)	m	Dinoseb	11.679	11.326	6017725	16929345	97.270	123.792	#

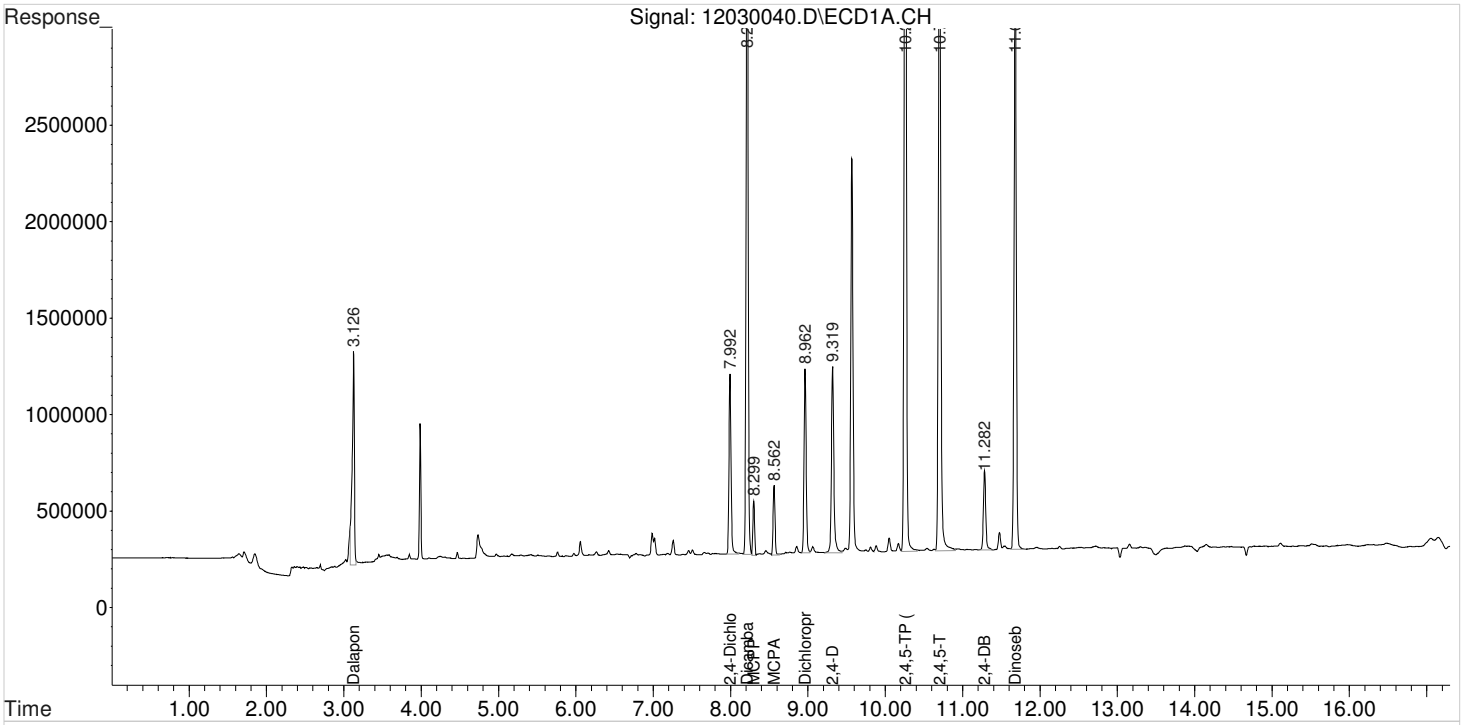
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

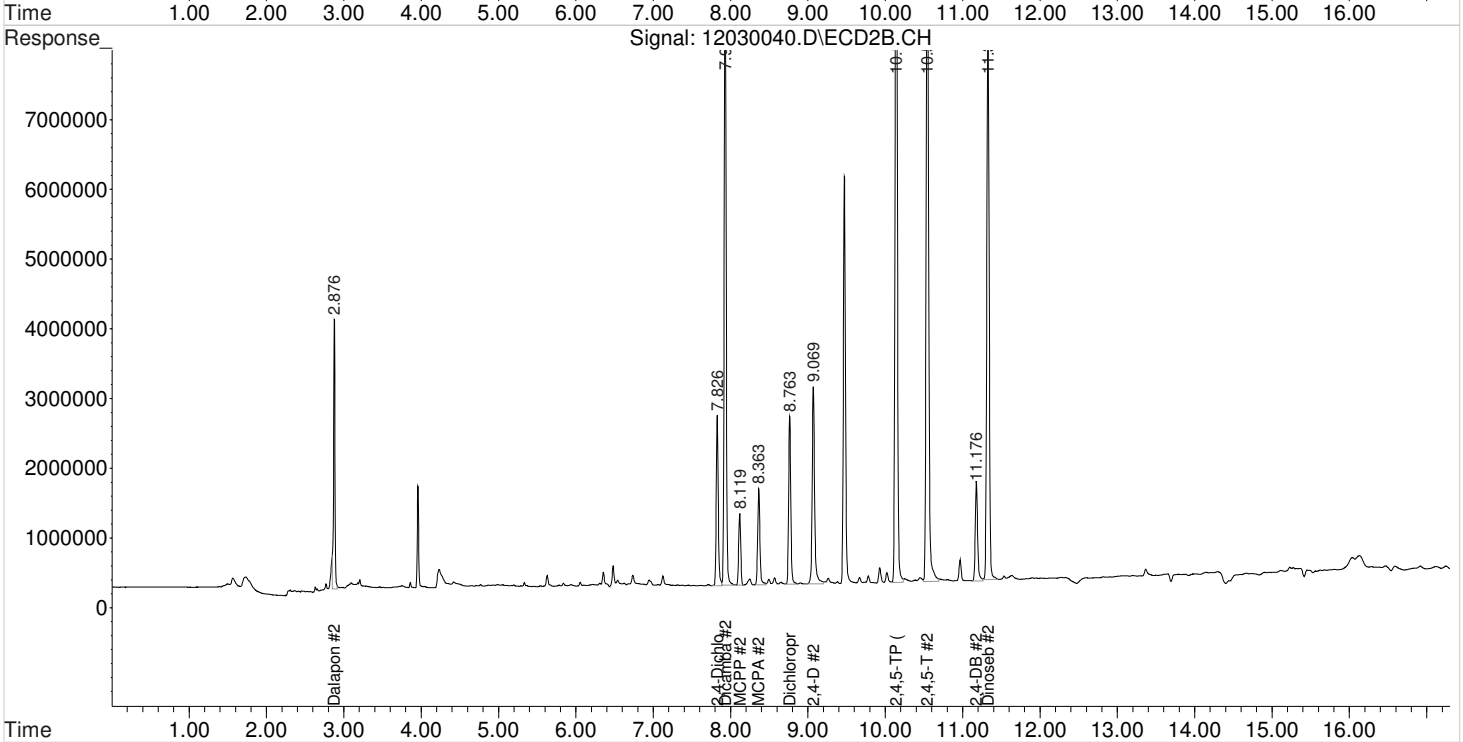
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030040.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 3:42 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: Dec 04 11:07:47 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



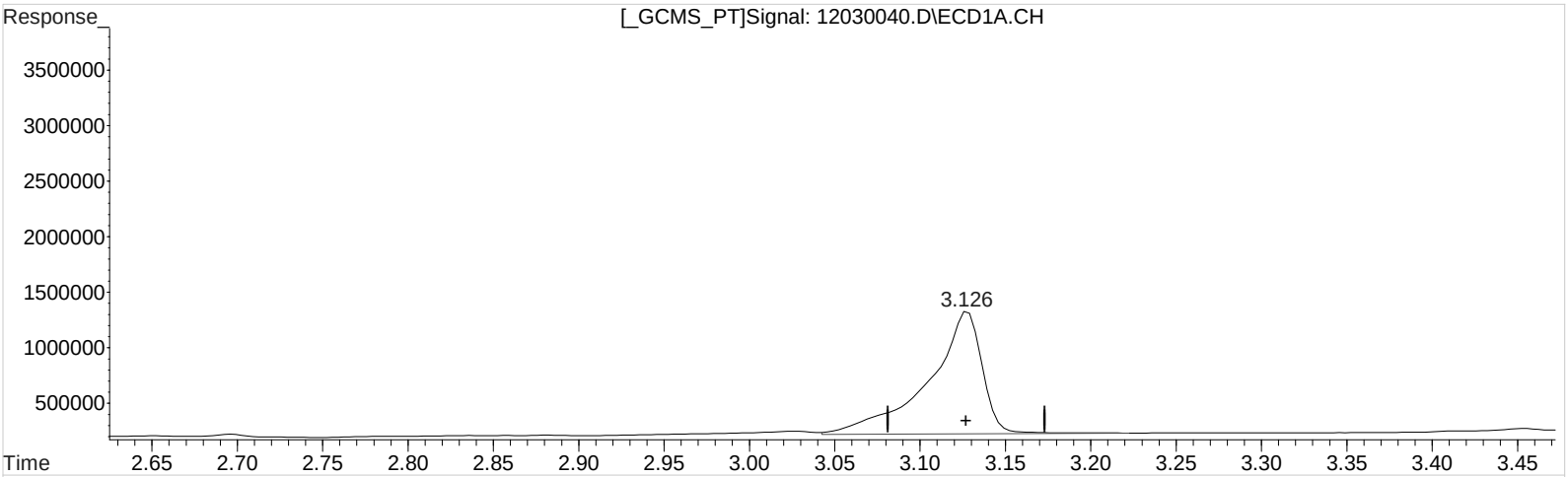


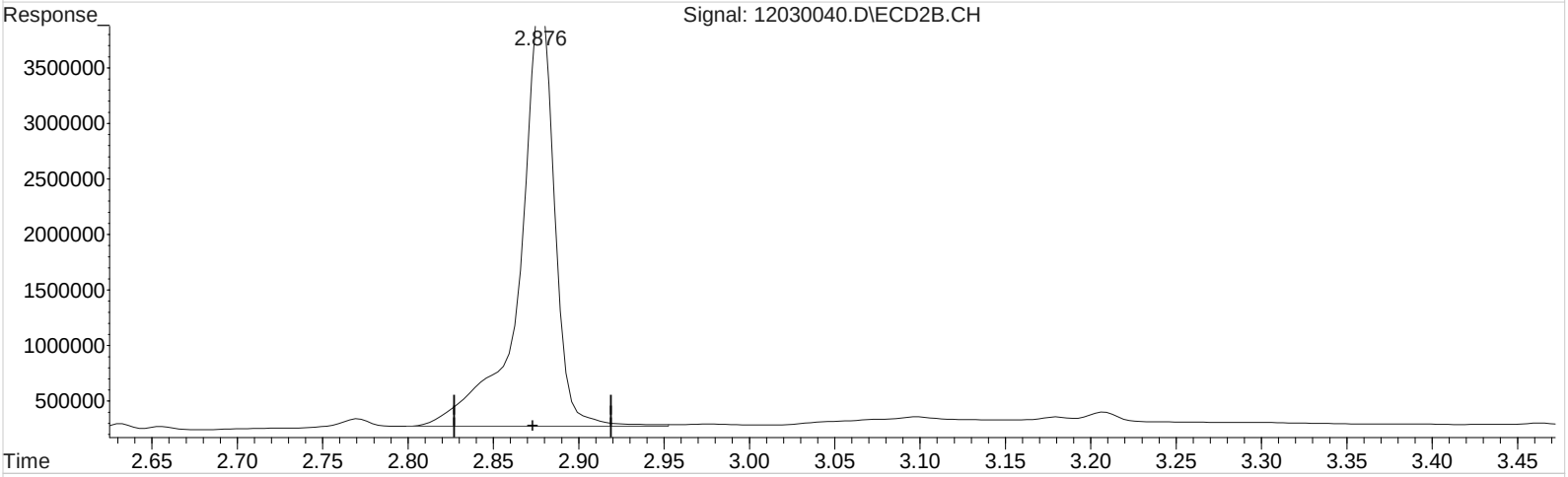
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030040.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 3:42 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: Dec 04 11:07:07 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)

3.126min 99.354 ppb

response 2410171

(1) Dalapon #2 (m)

2.876min 113.548 ppb

response 5485800

Manual Integration:

Before

12/04/20

(+) = Expected Retention Time

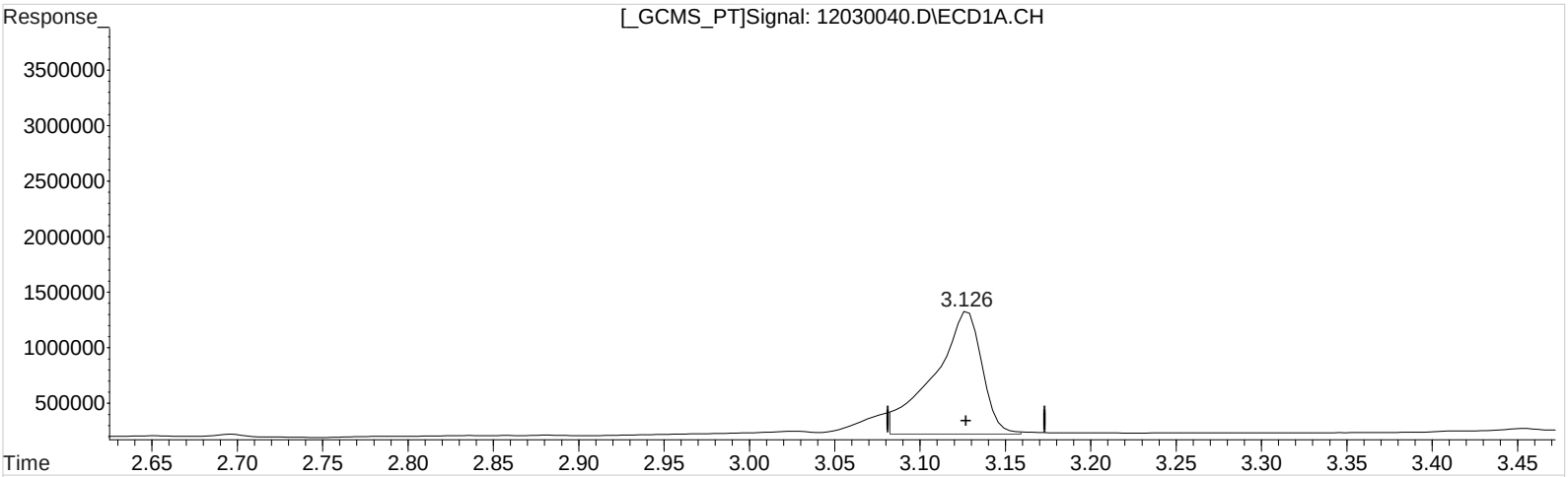
Quantitation Report (Qedit)

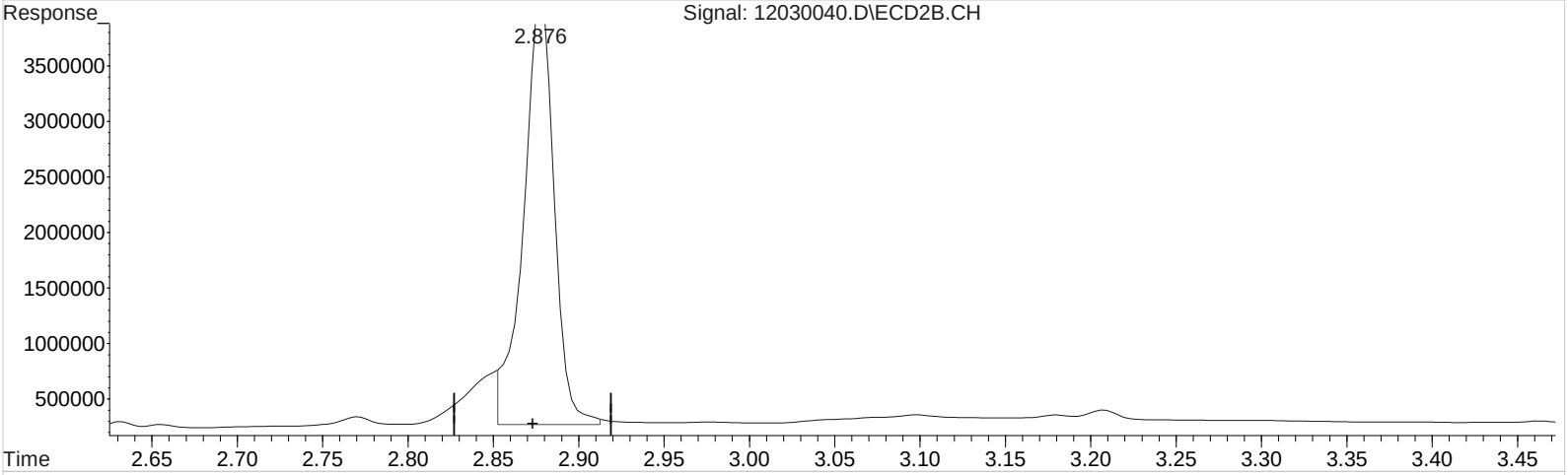
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030040.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 3:42 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: Dec 04 11:07:07 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)

3.126min 88.452 ppb m

response 2145697

(1) Dalapon #2 (m)

2.876min 98.764 ppb m

response 4771575

Manual Integration:

After

Baseline/Shoulder

12/04/20

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030052.D\
Lab ID: KQ2019401-03
RunType: CCV
Matrix: Soil

Date Acquired: 12/4/20 08:17:00
Batch ID: 705934
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

1st UA 12/07/20
2nd SM 12/08/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030052.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 08:17:00	**Vial:**	5
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019401-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
Analysis	8151A	**Prep Method:**			
		Prep Date:			

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	7.99	7.83	1747546	4364944	96.037	103.195			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-TP	10.26	10.14	9263343	24741422	98.882	121.880	98.9	122	Y
2,4-D	9.32	9.07	2011377	5841571	94.697	114.096	94.7	114	Y

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

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

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

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

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1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030052.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 08:17:00	**Vial:**	7
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019401-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
2,4-Dichlorophenylacetic Acid	7.99	7.83	1747546	4364944	96.037	103.195			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-T	10.70	10.54	7474100	22293991	90.585	116.499	90.6	116	Y
2,4,5-TP (Silvex)	10.26	10.14	9263343	24741422	98.882	121.880	98.9	122	Y
2,4-D	9.32	9.07	2011377	5841571	94.697	114.096	94.7	114	Y
2,4-DB	11.28	11.18	843849	3003263	82.251	103.504	82.3	104	Y
Dalapon	3.13	2.88	1996502	4736185	82.301	98.032	82.3	98.0	Y
Dicamba	8.21	7.93	6796648	16047911	97.373	108.276	97.4	108	Y
Dichlorprop	8.96	8.76	1784863	4629987	95.715	110.991	95.7	111	Y
Dinoseb	11.68	11.32	5786326	16526726	93.530	120.848	93.5	121	Y
MCPA	8.56	8.36	643069	2690905	10982.771	12343.295	11000	12300	Y
MCPP	8.30	8.12	467330	1929941	10565.332	11919.809	10600	11900	Y

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

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

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

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

Printed: 12/8/20 17:31
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Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030052.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:17 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: Dec 04 14:39:48 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...	7.992	7.825	1747546	4364944	96.037	103.195	
		Target Compounds							
1)	m	Dalapon	3.125	2.875	1996502	4736185	82.301m	98.032m	
3)	m	Dicamba	8.212	7.929	6796648	16047911	97.373	108.276	
4)	m	MCPP	8.295	8.115	467330	1929941	10565.332	11919.809m	
5)	m	MCPA	8.559	8.362	643069	2690905	10982.771	12343.295	
6)	m	Dichloroprop	8.962	8.762	1784863	4629987	95.715	110.991	
7)	m	2,4-D	9.315	9.069	2011377	5841571	94.697	114.096	
8)	m	2,4,5-TP ...	10.255	10.139	9263343	24741422	98.882	121.880	
9)	m	2,4,5-T	10.699	10.542	7474100	22293991	90.585	116.499	#
10)	m	2,4-DB	11.279	11.175	843849	3003263	82.251	103.504	#
11)	m	Dinoseb	11.675	11.322	5786326	16526726	93.530	120.848	#

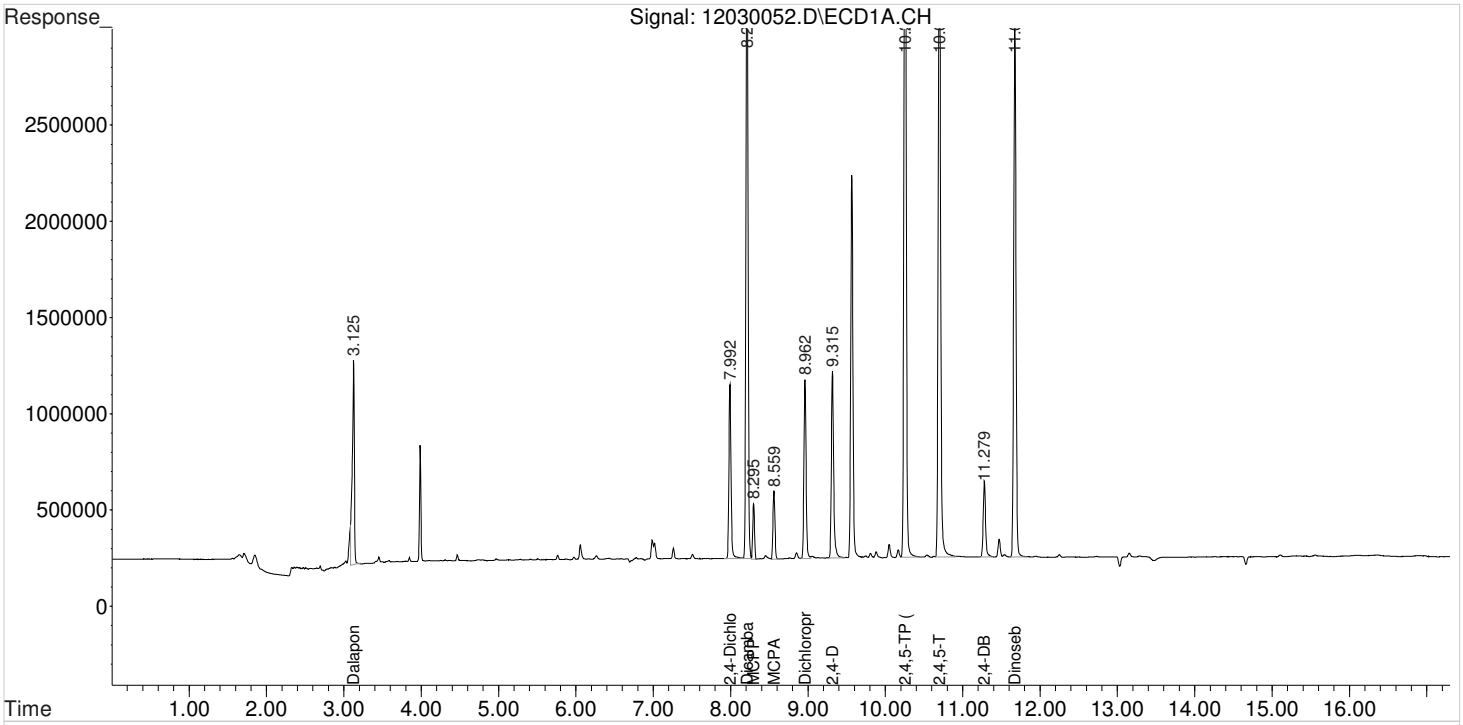
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

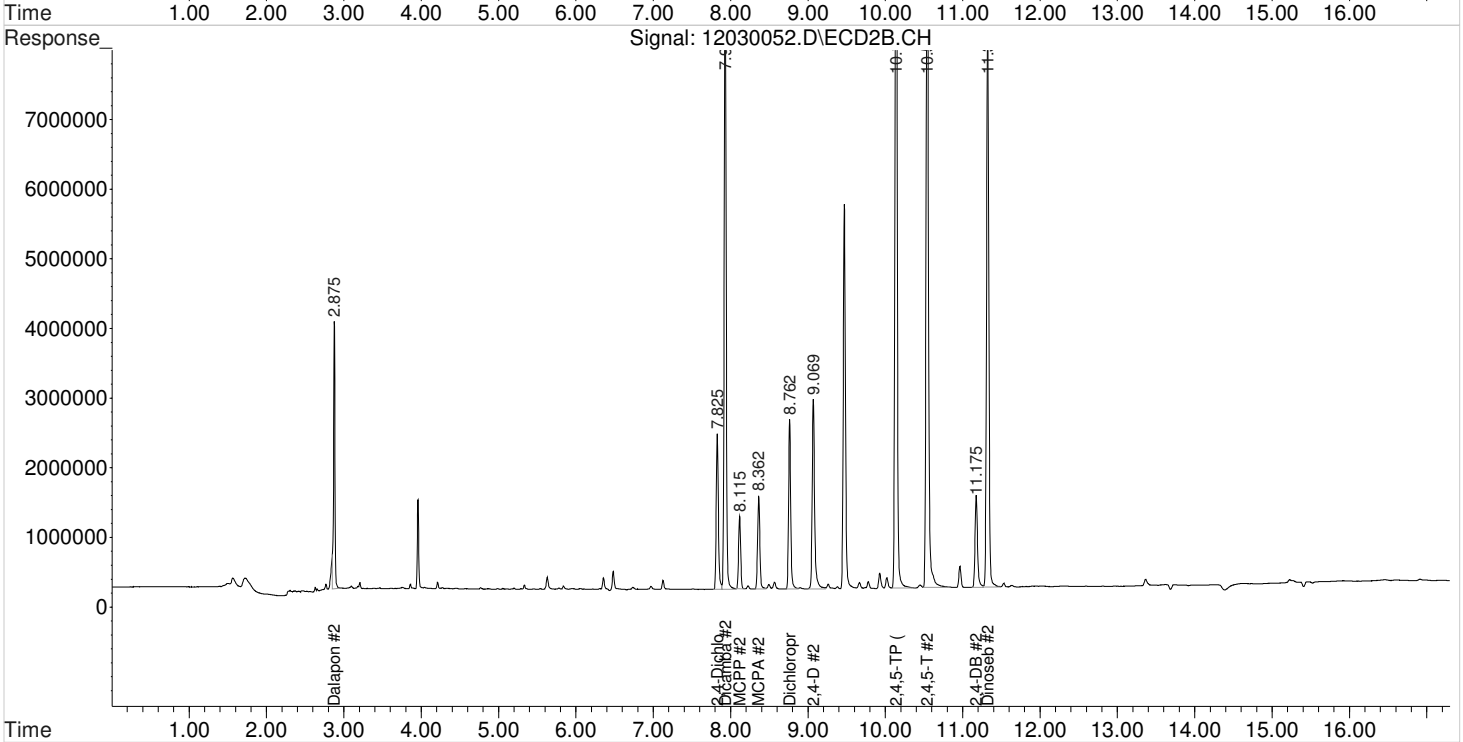
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030052.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:17 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: Dec 04 14:39:48 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





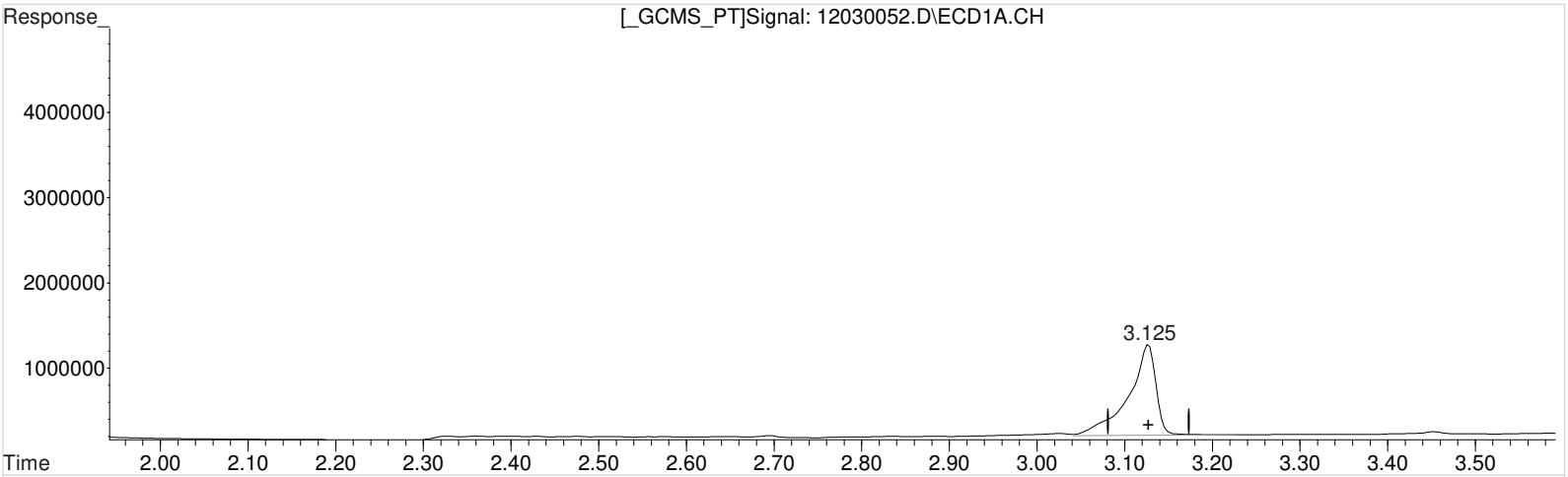
Quantitation Report (Qedit)

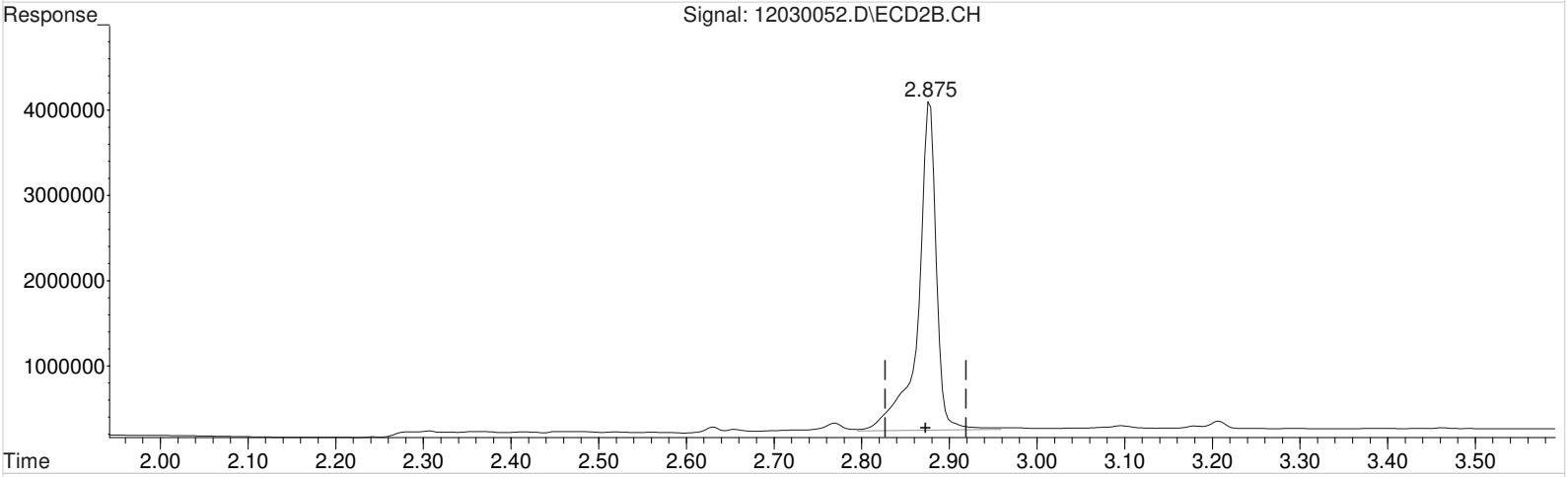
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030052.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:17 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: Dec 04 12:16:19 2020
Quant Results File: 102120_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)

3.125min 95.734 ppb

response 2322359

(1) Dalapon #2 (m)

2.875min 115.299 ppb

response 5570422

Manual Integration:

Before

12/04/20

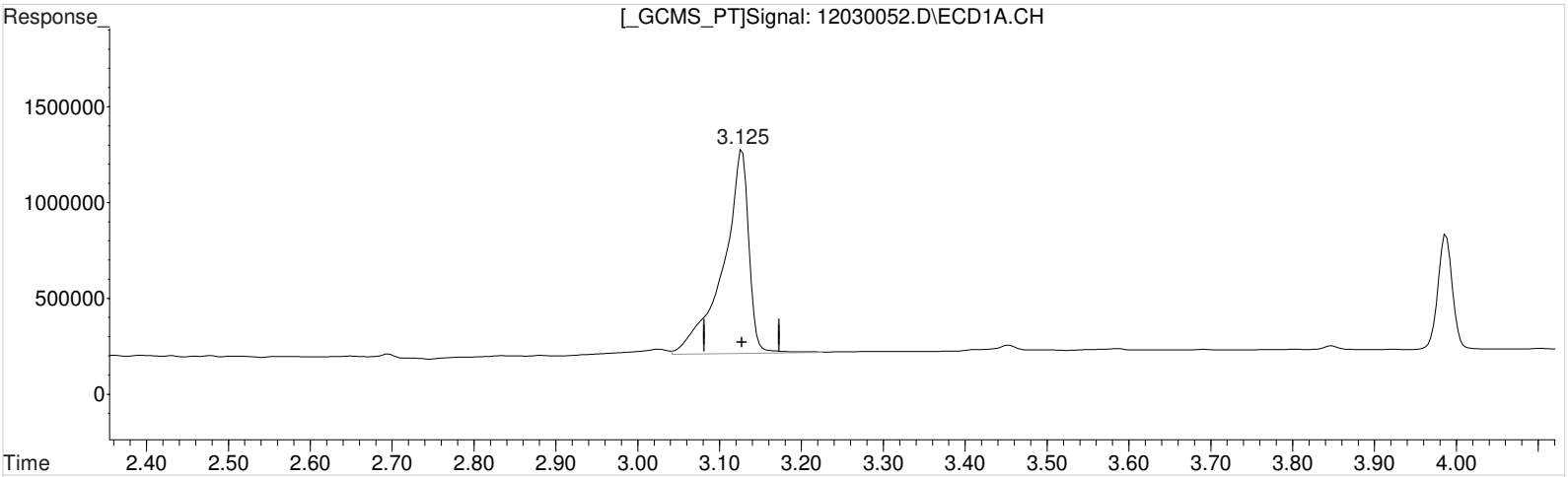
(+) = Expected Retention Time

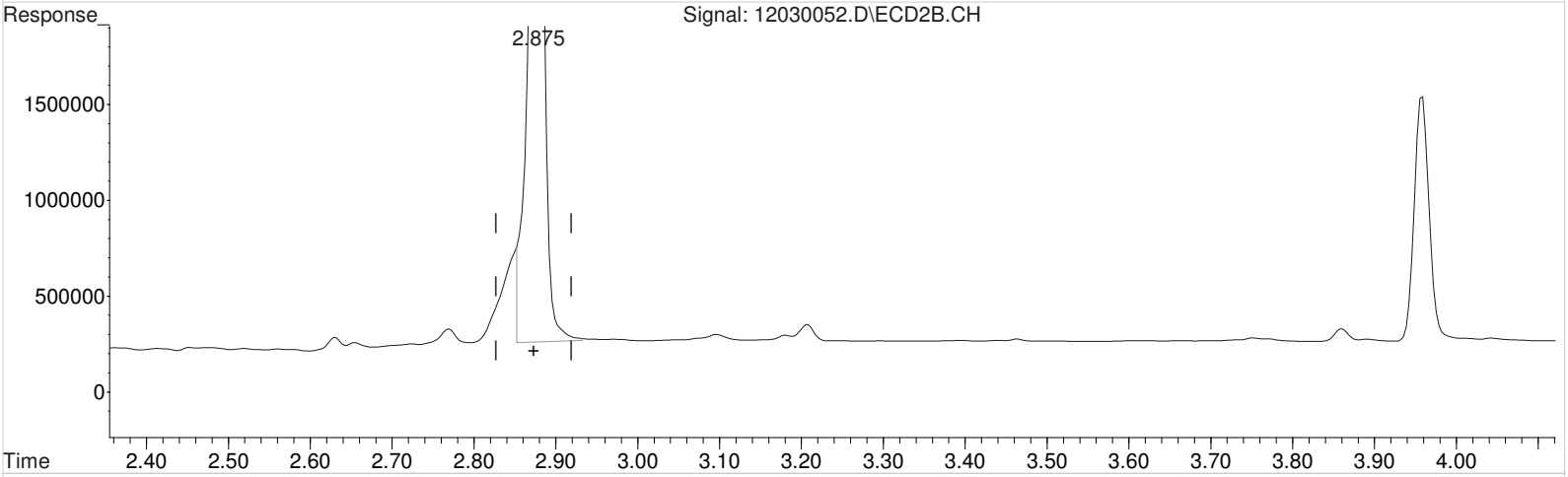
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030052.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:17 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: Dec 04 12:16:19 2020
Quant Results File: 102120_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)

3.125min 95.734 ppb

response 2322359

Manual Integration:

Before

12/04/20

(1) Dalapon #2 (m)

2.875min 98.032 ppb m

response 4736185

(+) = Expected Retention Time

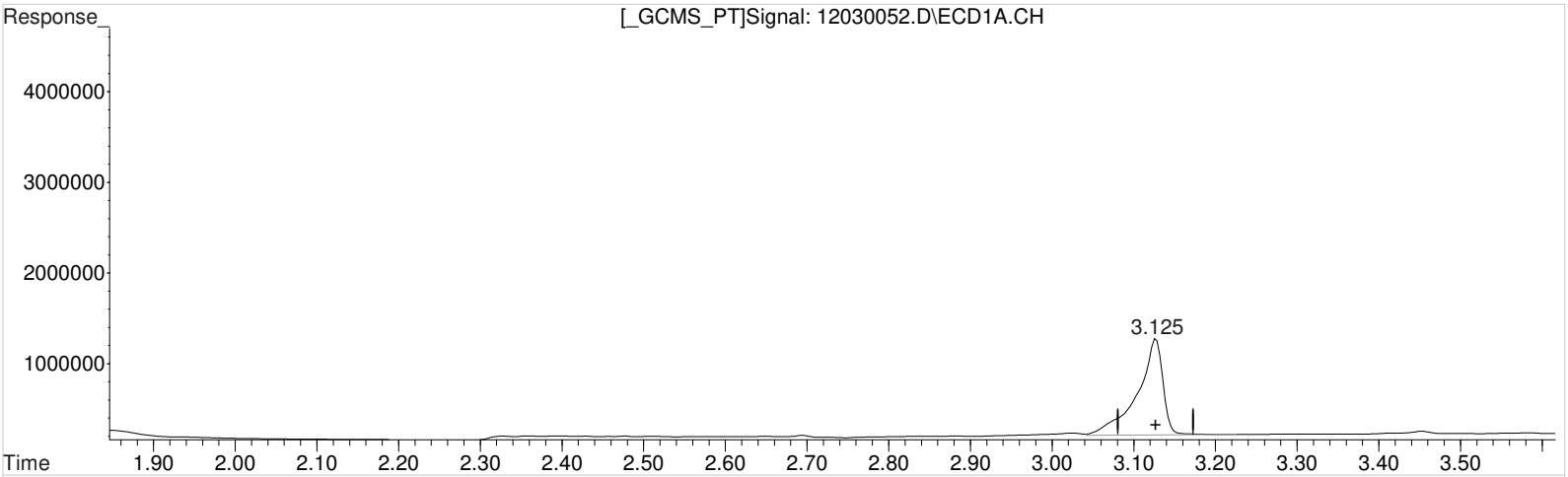
Quantitation Report (Qedit)

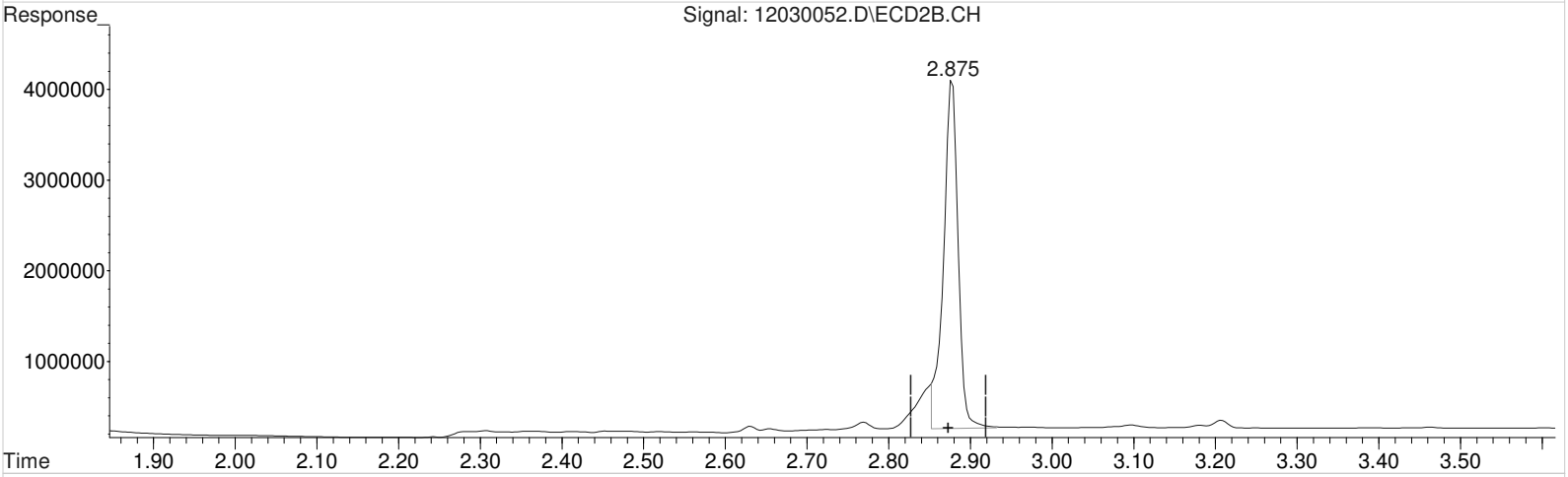
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030052.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:17 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: Dec 04 12:16:19 2020
Quant Results File: 102120_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)

3.125min 95.734 ppb

response 2322359

Manual Integration:

After

Baseline/Shoulder

12/04/20

(1) Dalapon #2 (m)

2.875min 98.032 ppb m

response 4736185

(+) = Expected Retention Time

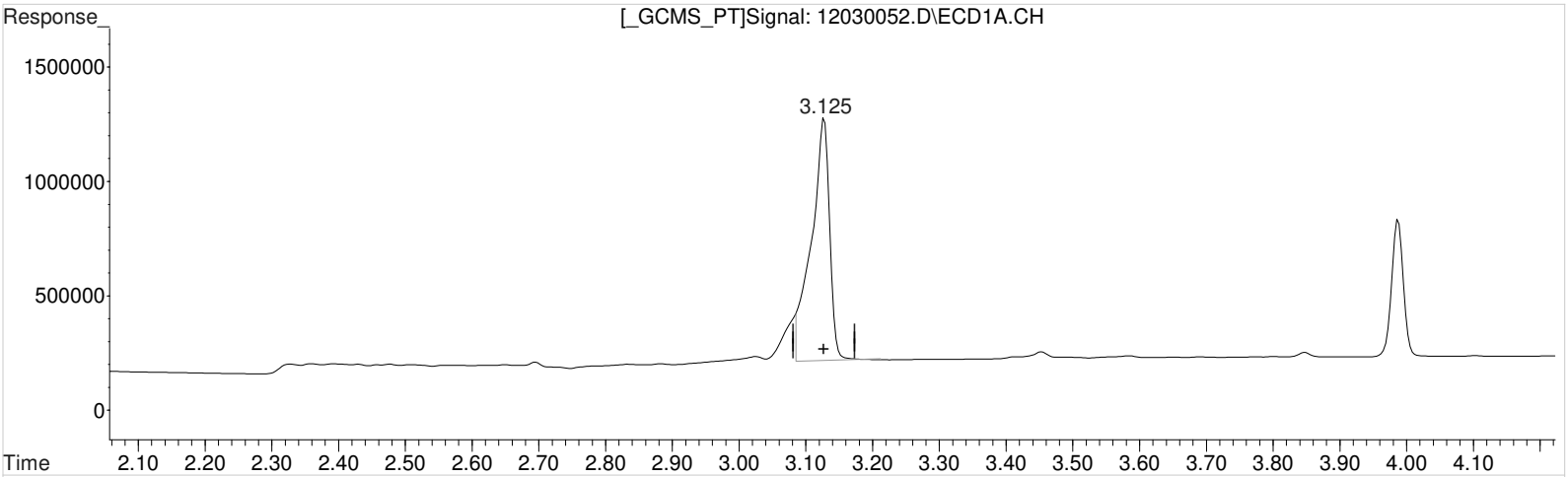
Quantitation Report (Qedit)

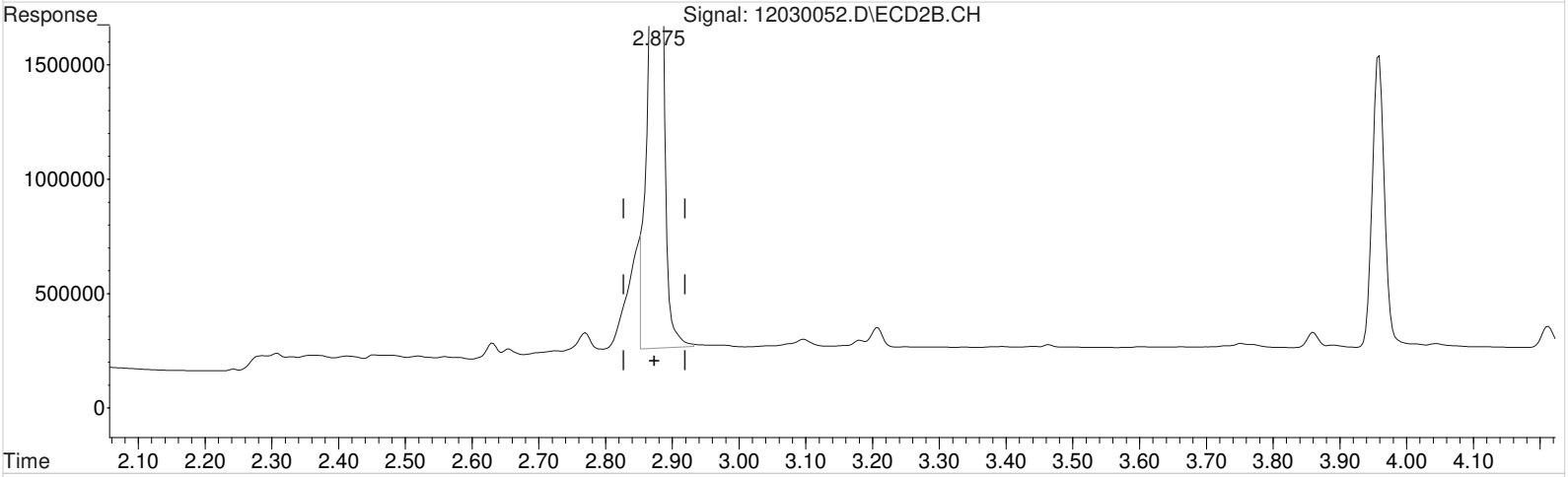
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030052.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:17 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: Dec 04 12:16:19 2020
Quant Results File: 102120_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)

3.125min 82.301 ppb m

response 1996502

(1) Dalapon #2 (m)

2.875min 98.032 ppb m

response 4736185

Manual Integration:

After

Baseline/Shoulder

12/04/20

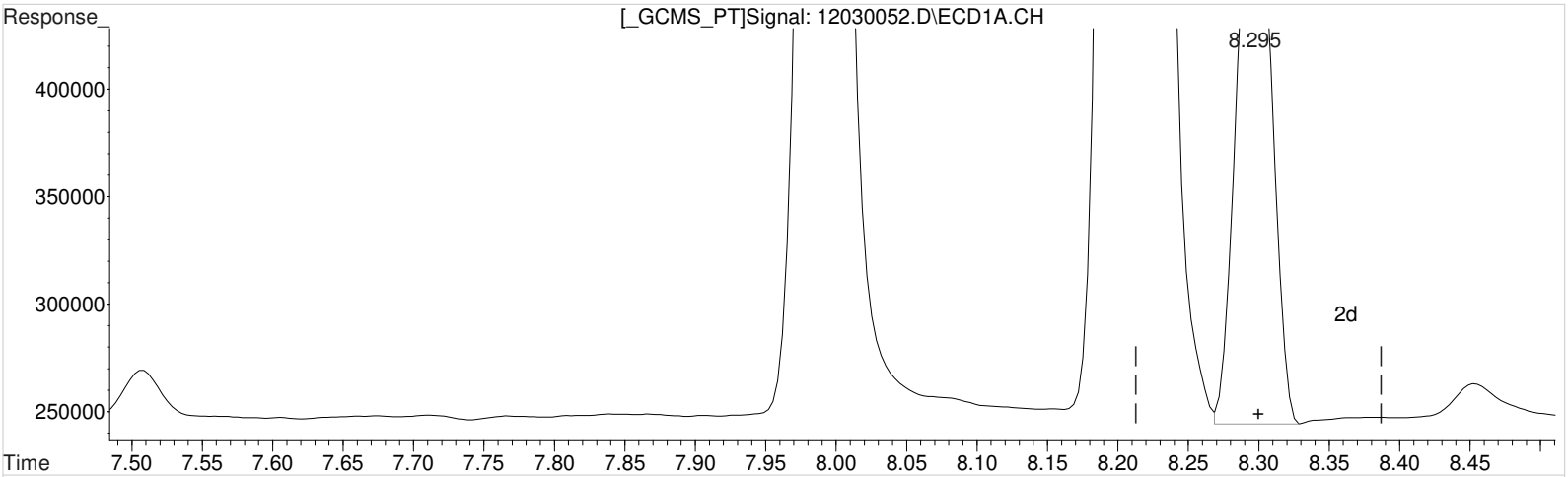
(+) = Expected Retention Time

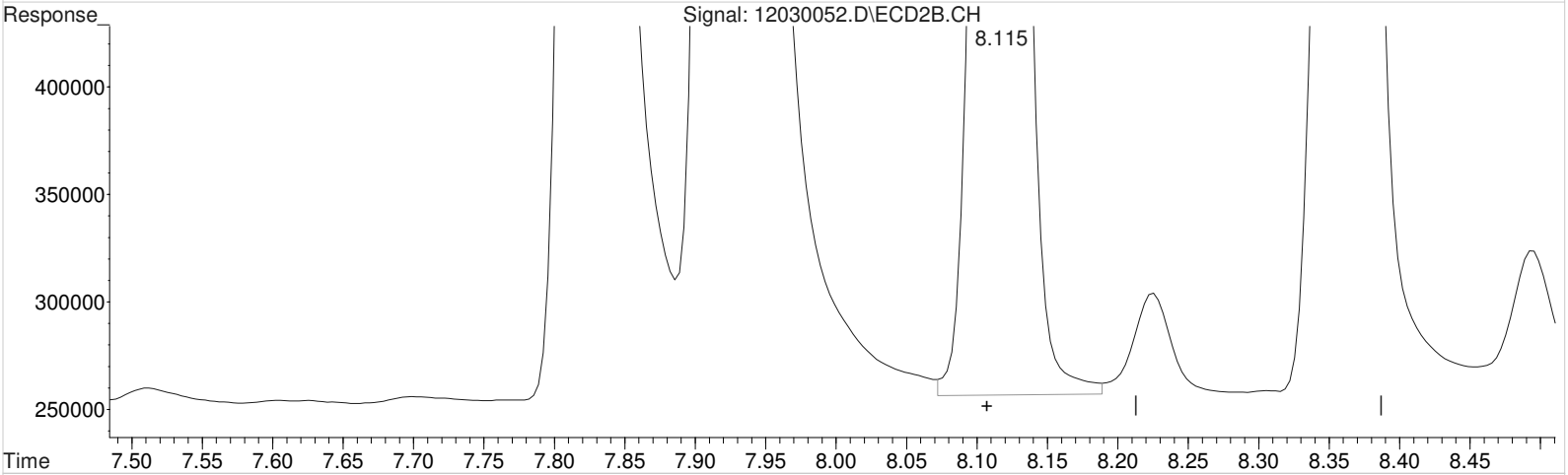
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030052.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:17 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: Dec 04 12:16:19 2020
Quant Results File: 102120_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

(4) MCPP (m)

8.295min 10565.332 ppb

response 467330

(4) MCPP #2 (m)

8.115min 12162.240 ppb

response 1965018

Manual Integration:

Before

12/04/20

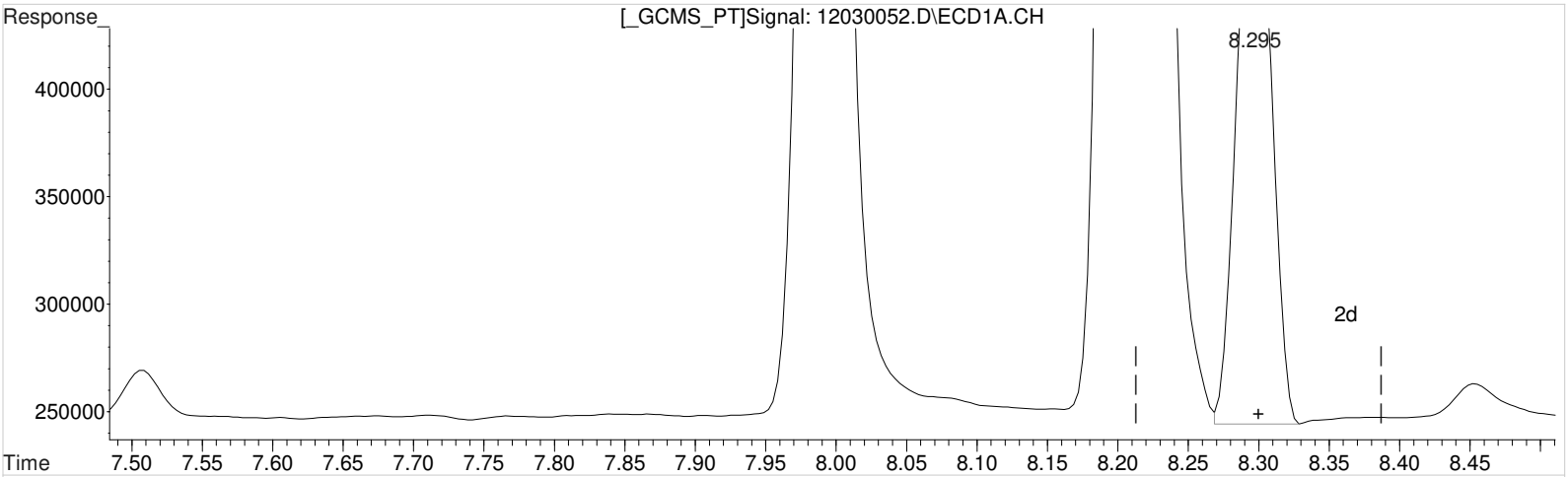
(+) = Expected Retention Time

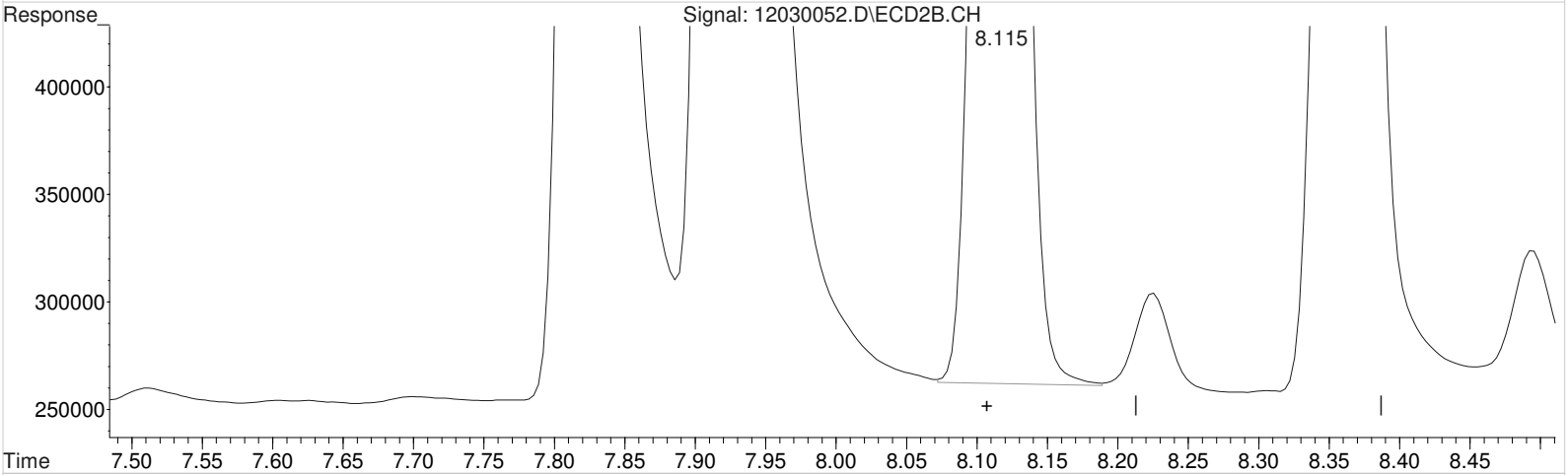
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030052.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 8:17 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: Dec 04 12:16:19 2020
Quant Results File: 102120_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

(4) MCPP (m)

8.295min 10565.332 ppb

response 467330

Manual Integration:

After

Baseline/Shoulder

12/04/20

(4) MCPP #2 (m)

8.115min 11919.809 ppb m

response 1929941

(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Validation Report

Data File: J:\gc24\data\120320\12030062.D\
Lab ID: KQ2019401-05
RunType: CCV
Matrix: Soil

Date Acquired: 12/4/20 12:06:00
Batch ID: 705934
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

1st UA 12/07/20
2nd SM 12/08/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030062.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 12:06:00	**Vial:**	7
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019401-05	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
Analysis	8151A	**Prep Method:**			
		Prep Date:			

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

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	7.99	7.82	1642200	4519223	90.248	106.843			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	10.13	8782398	24034944	93.748	118.400	93.7	118	Y
2,4-D	9.31	9.06	1914950	5963515	90.157	116.478	90.2	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

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1st 12/04/20
2nd 12/05/20

Quantitation Report

Data File:	J:\gc24\data\120320\12030062.D\	**Instrument:**	K-GC-24
Acqu Date:	12/4/20 12:06:00	**Vial:**	9
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019401-05	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	11/5/20	**Receive Date:**	11/6/20

Analysis Lot:	705934	**Prep Lot:**		**Report Group:**	KQ2019401
Analysis	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
2,4-Dichlorophenylacetic Acid	7.99	7.82	1642200	4519223	90.248	106.843			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-T	10.69	10.54	7082305	22226066	85.836	116.144	85.8	116	Y
2,4,5-TP (Silvex)	10.25	10.13	8782398	24034944	93.748	118.400	93.7	118	Y
2,4-D	9.31	9.06	1914950	5963515	90.157	116.478	90.2	116	Y
2,4-DB	11.27	11.17	764490	2859220	74.516	98.540	74.5	98.5	Y
Dalapon	3.13	2.88	2052361	4852809	84.604	100.446	84.6	100	Y
Dicamba	8.21	7.92	6581298	16786513	94.288	113.259	94.3	113	Y
Dichlorprop	8.96	8.76	1705004	4799135	91.432	115.045	91.4	115	Y
Dinoseb	11.67	11.32	5472737	16844413	88.461	123.171	88.5	123	Y
MCPA	8.56	8.36	619803	2775727	10585.419	12791.602	10600	12800	Y
MCPP	8.29	8.11	454806	1983990	10295.826	12293.362	10300	12300	Y

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

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

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

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

Printed: 12/8/20 17:31
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 15:12:24 2020
Quant Results File: 102120_8151.RES

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

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	7.986	7.819	1642200	4519223	90.248m	106.843
		Target Compounds						
1)	m	Dalapon	3.126	2.876	2052361	4852809	84.604m	100.446m
3)	m	Dicamba	8.206	7.922	6581298	16786513	94.288	113.259
4)	m	MCPP	8.292	8.112	454806	1983990	10295.826	12293.362m
5)	m	MCPA	8.556	8.356	619803	2775727	10585.419	12791.602
6)	m	Dichloroprop	8.956	8.756	1705004	4799135	91.432m	115.045 #
7)	m	2,4-D	9.309	9.062	1914950	5963515	90.157m	116.478 #
8)	m	2,4,5-TP ...	10.249	10.132	8782398	24034944	93.748	118.400 #
9)	m	2,4,5-T	10.692	10.536	7082305	22226066	85.836	116.144m#
10)	m	2,4-DB	11.272	11.169	764490	2859220	74.516m	98.540 #
11)	m	Dinoseb	11.669	11.319	5472737	16844413	88.461	123.171 #

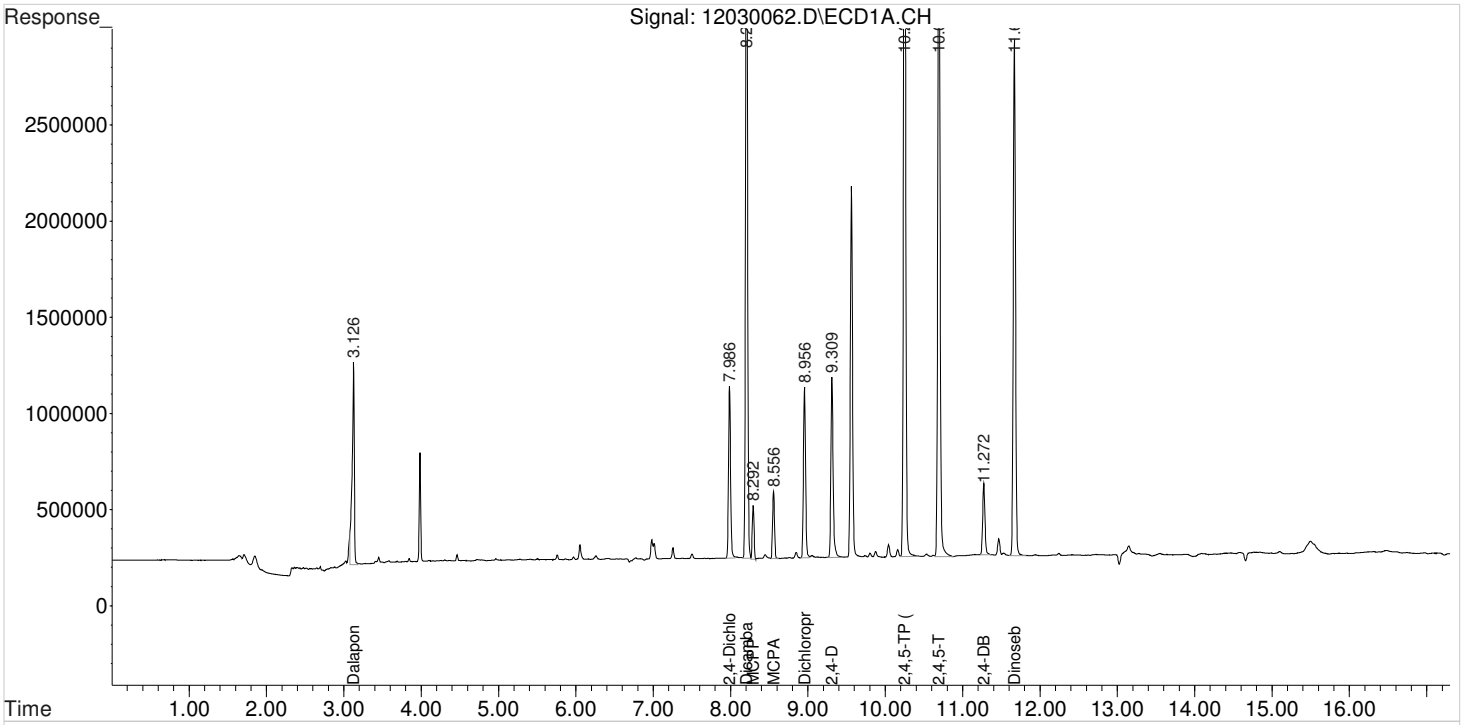
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

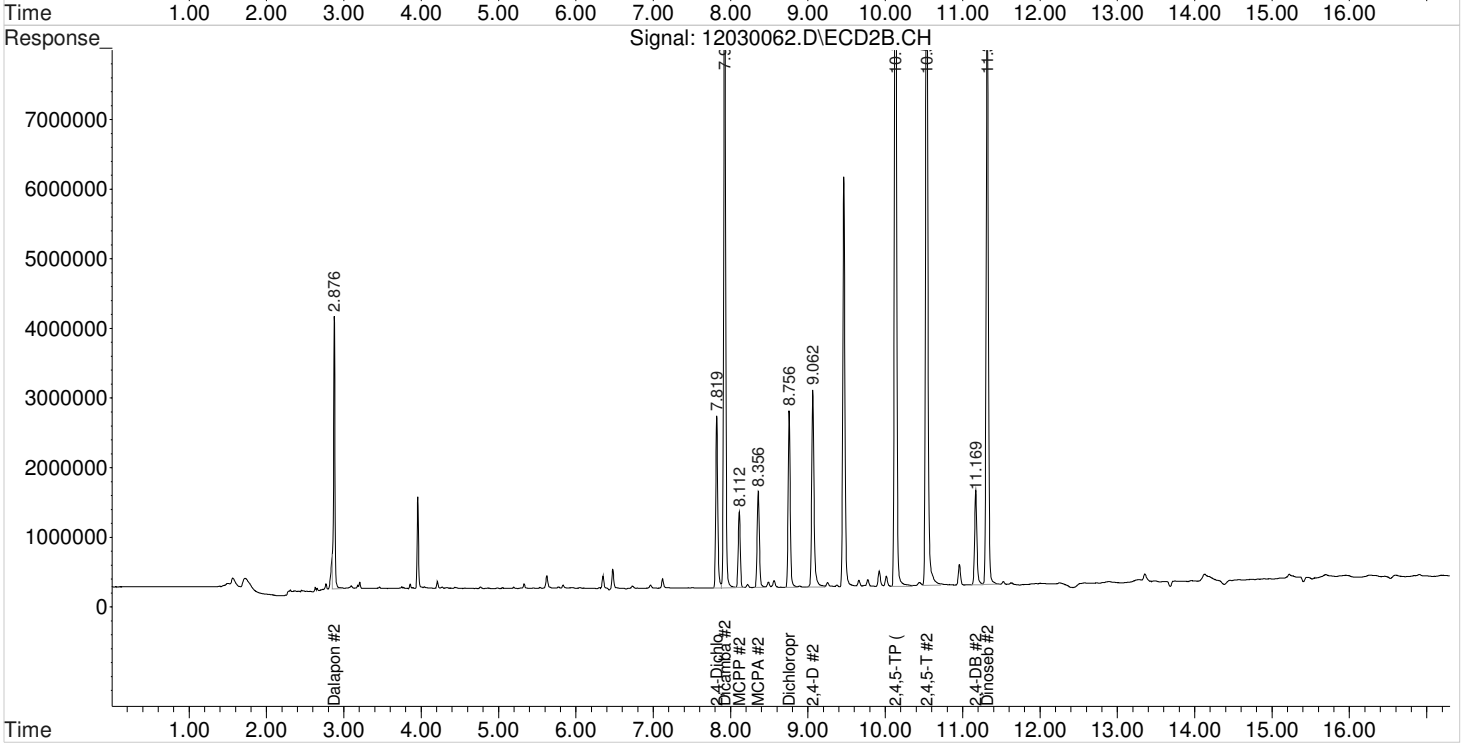
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 15:12:24 2020
Quant Results File: 102120_8151.RES

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

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



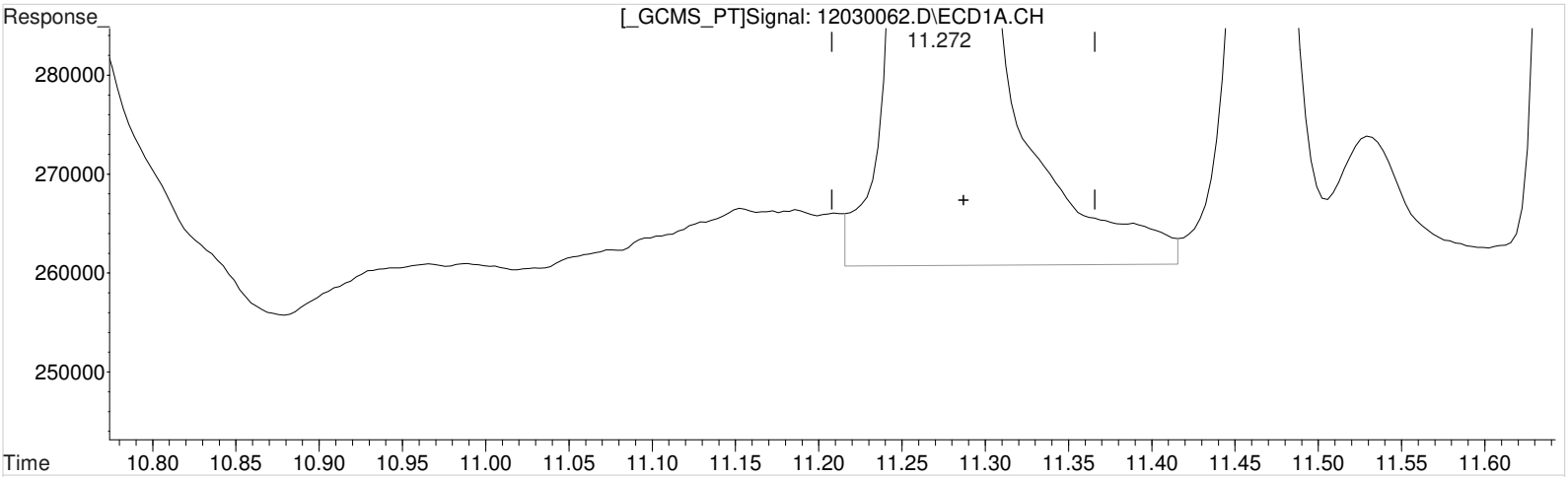


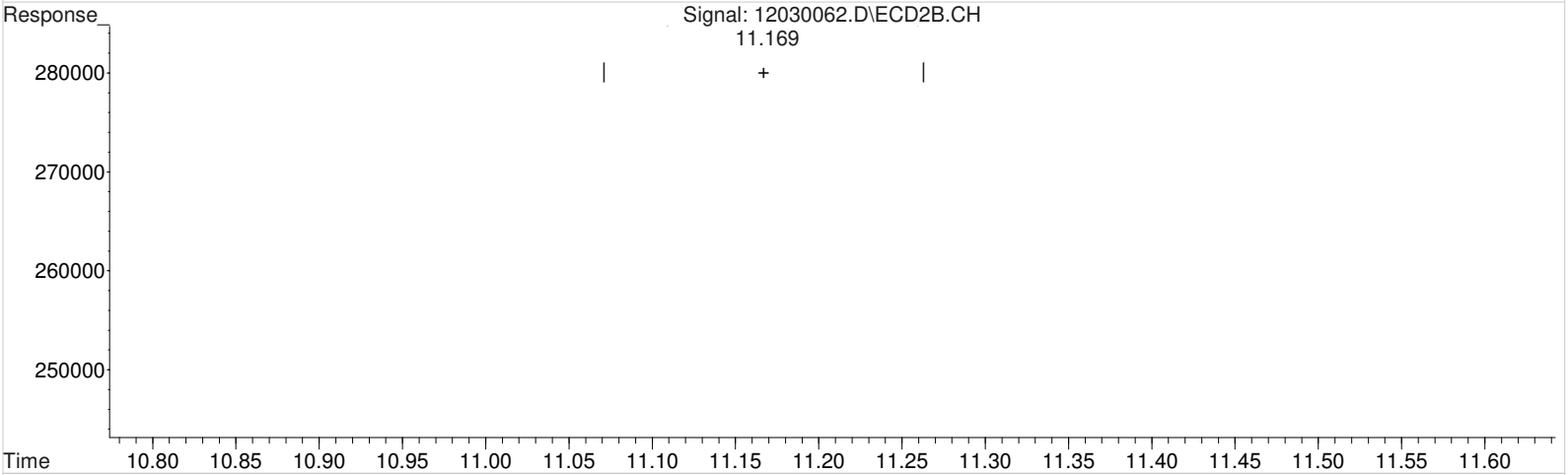
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(10) 2,4-DB (m)

11.272min 80.016 ppb

response 820914

Manual Integration:

Before

12/04/20

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

11.169min 98.540 ppb

response 2859220

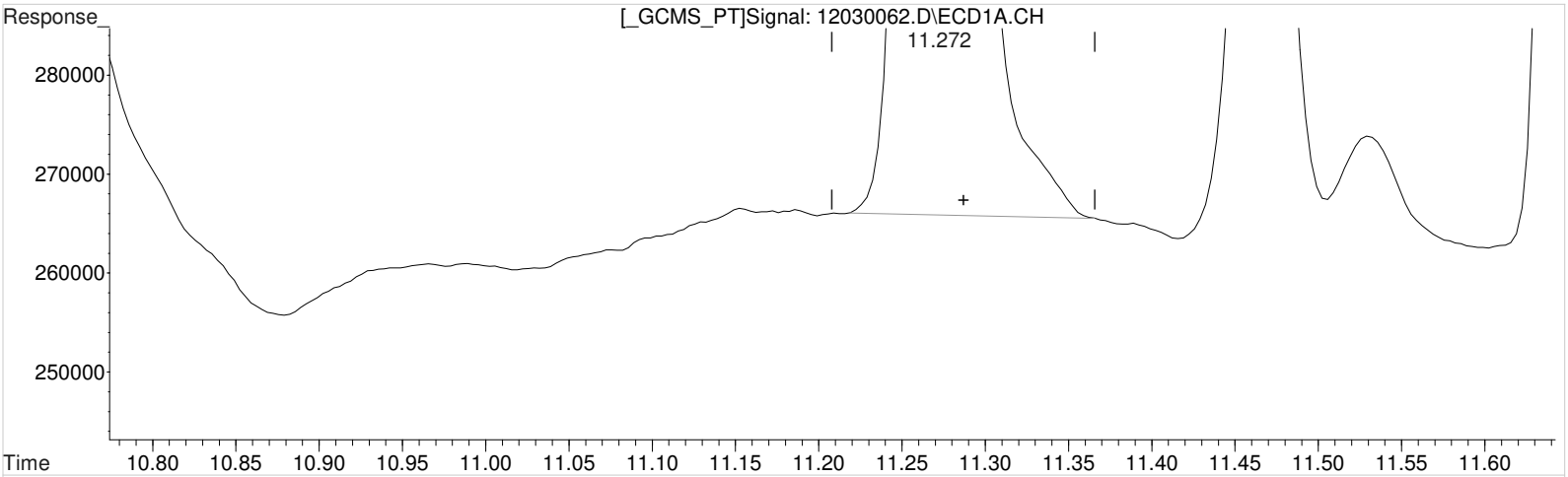
(+) = Expected Retention Time

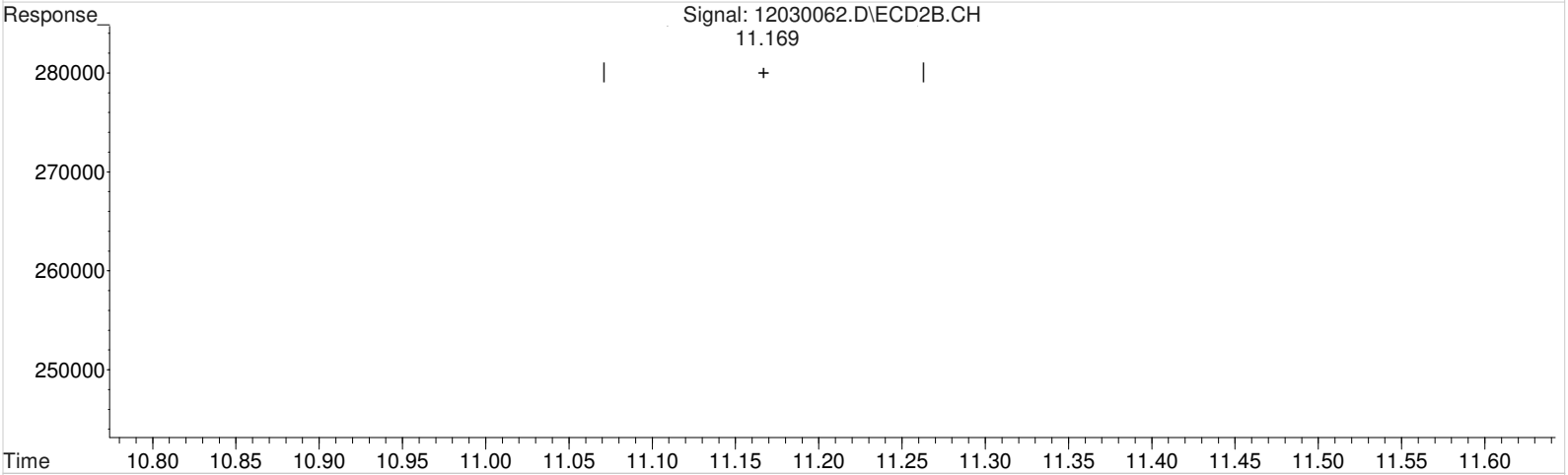
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(10) 2,4-DB (m)

11.272min 74.516 ppb m

response 764490

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

11.169min 98.540 ppb

response 2859220

(+) = Expected Retention Time

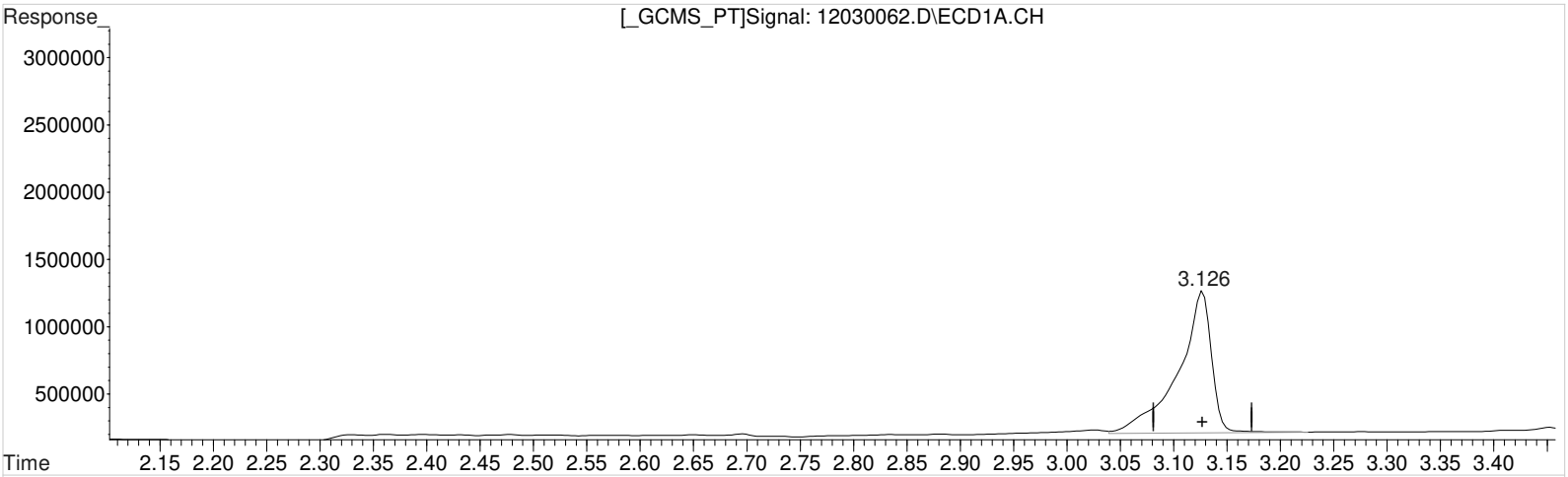
Quantitation Report (Qedit)

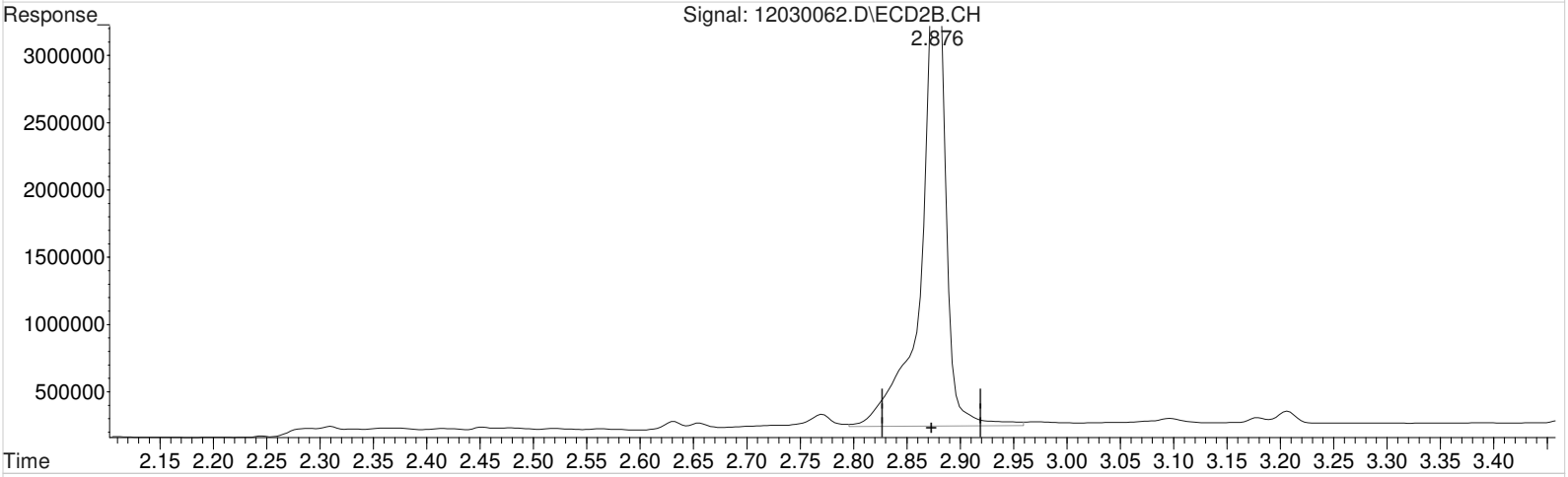
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(1) Dalapon (m)

3.126min 94.770 ppb

response 2298962

(1) Dalapon #2 (m)

2.876min 117.832 ppb

response 5692771

Manual Integration:

Before

12/04/20

(+) = Expected Retention Time

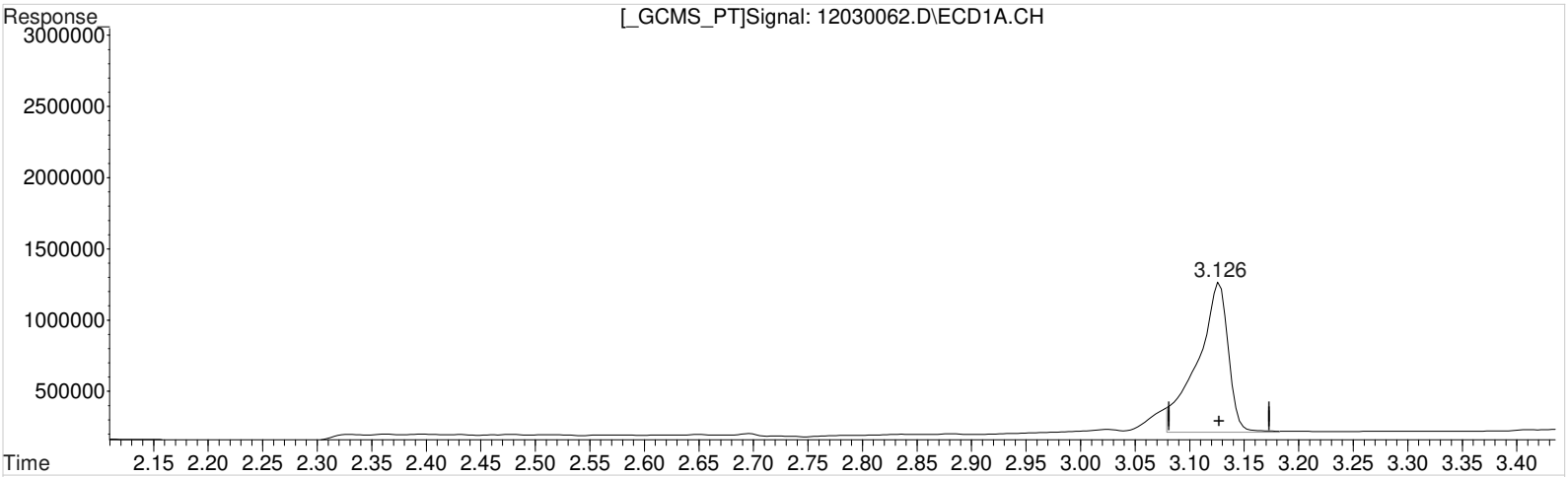
Quantitation Report (Qedit)

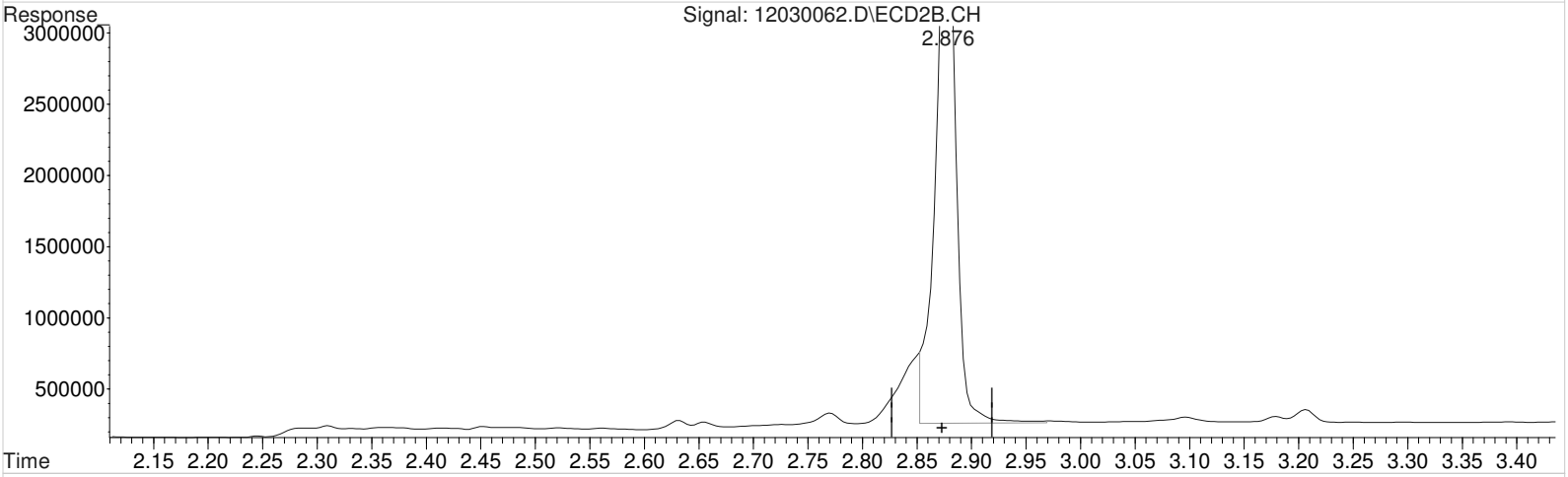
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(1) Dalapon (m)

3.126min 84.604 ppb m

response 2052361

Manual Integration:

After

Baseline/Shoulder

12/04/20

(1) Dalapon #2 (m)

2.876min 100.446 ppb m

response 4852809

(+) = Expected Retention Time

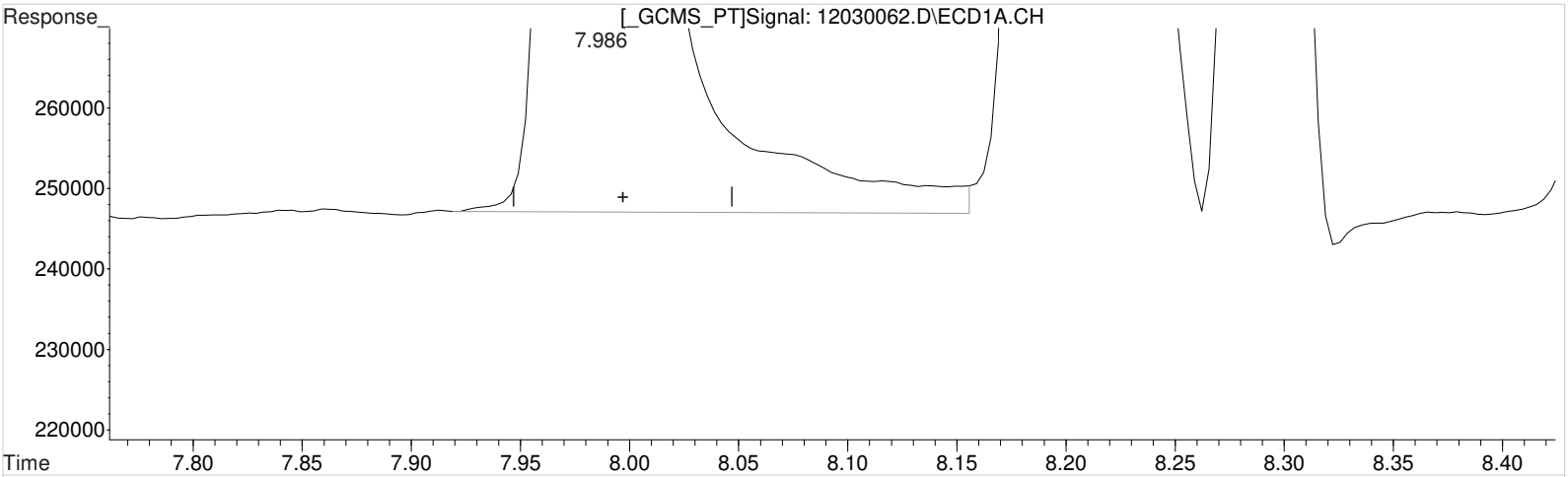
Quantitation Report (Qedit)

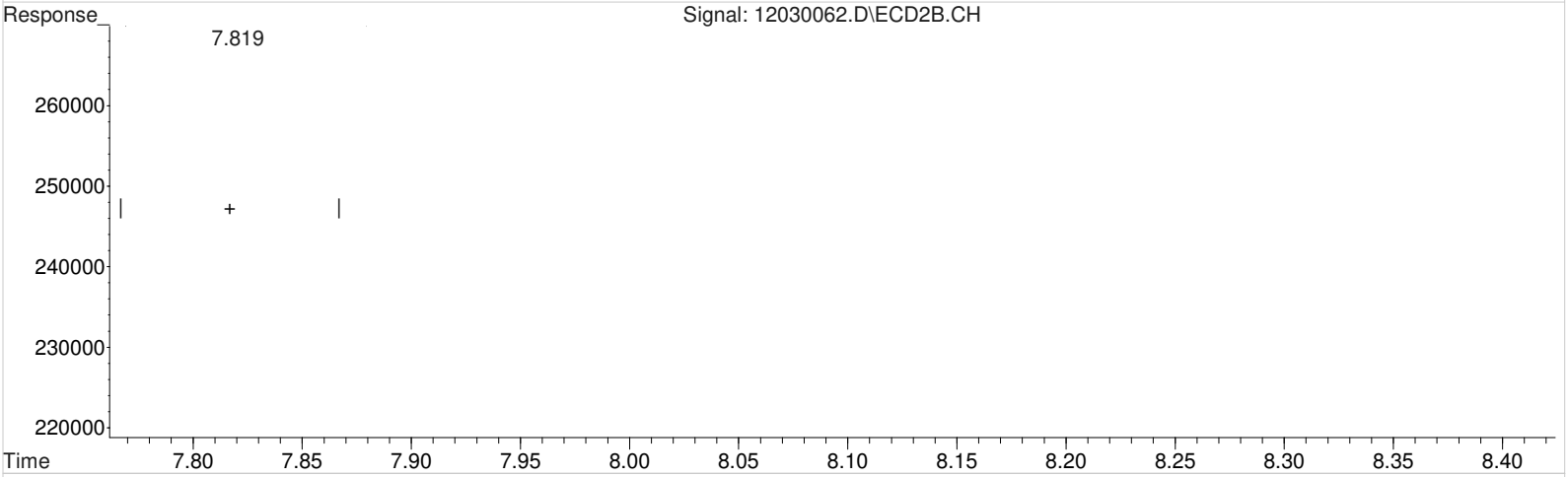
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

7.986min 92.350 ppb

response 1680465

Manual Integration:

Before

12/04/20

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

7.819min 106.843 ppb

response 4519223

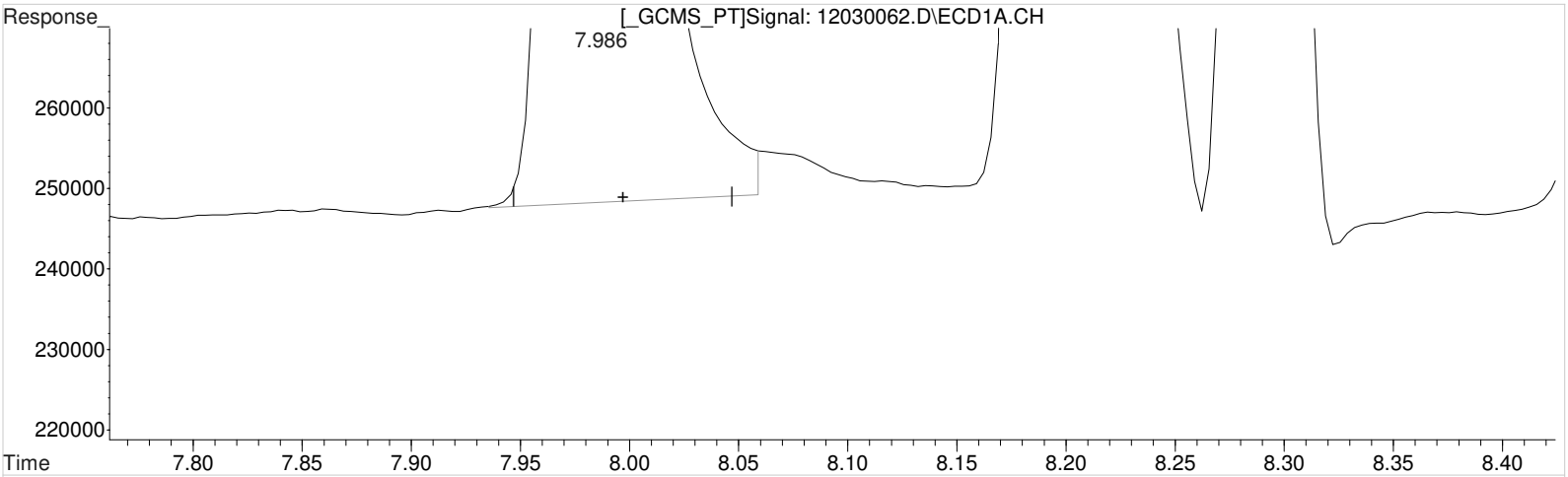
(+) = Expected Retention Time

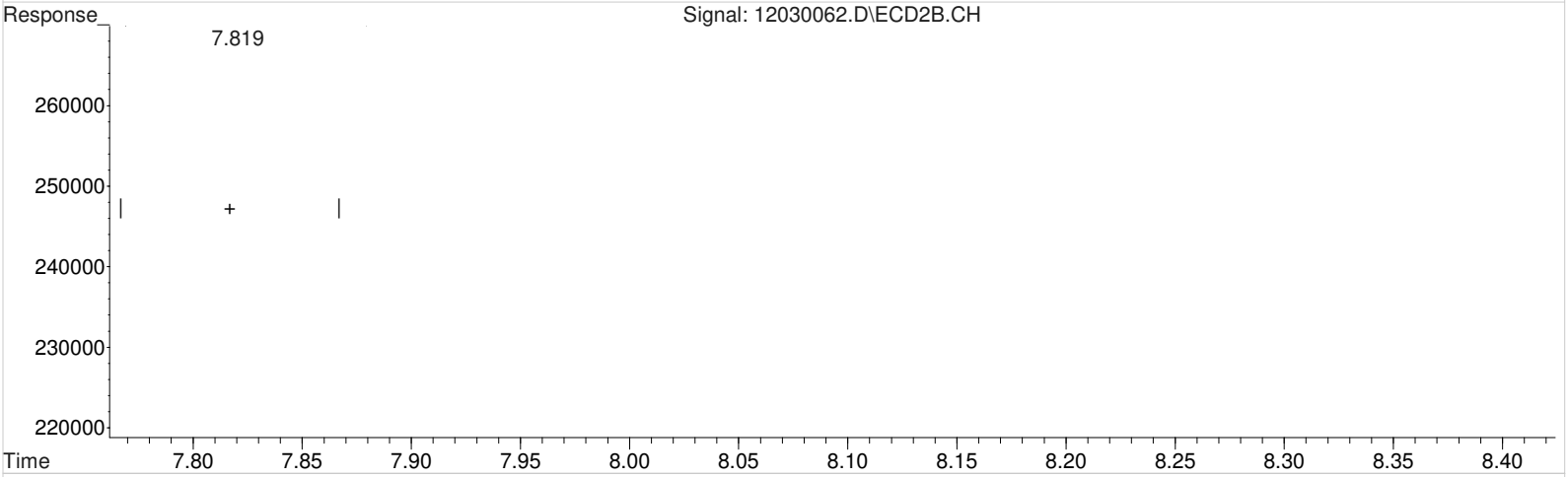
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

7.986min 90.248 ppb m

response 1642200

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

7.819min 106.843 ppb

response 4519223

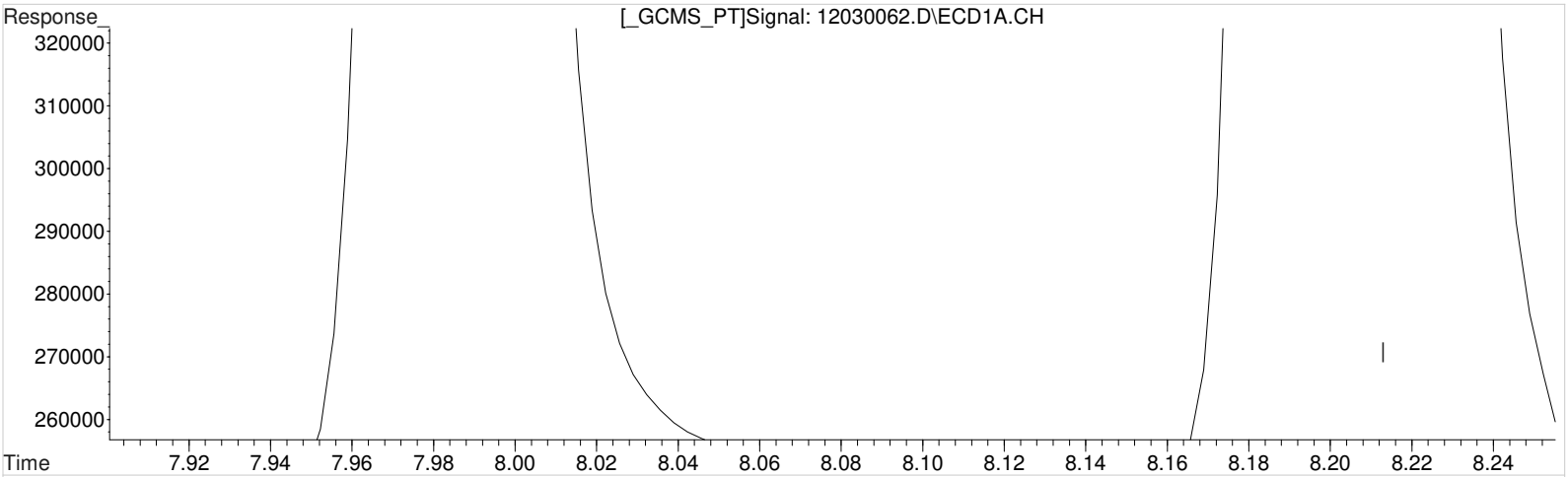
(+) = Expected Retention Time

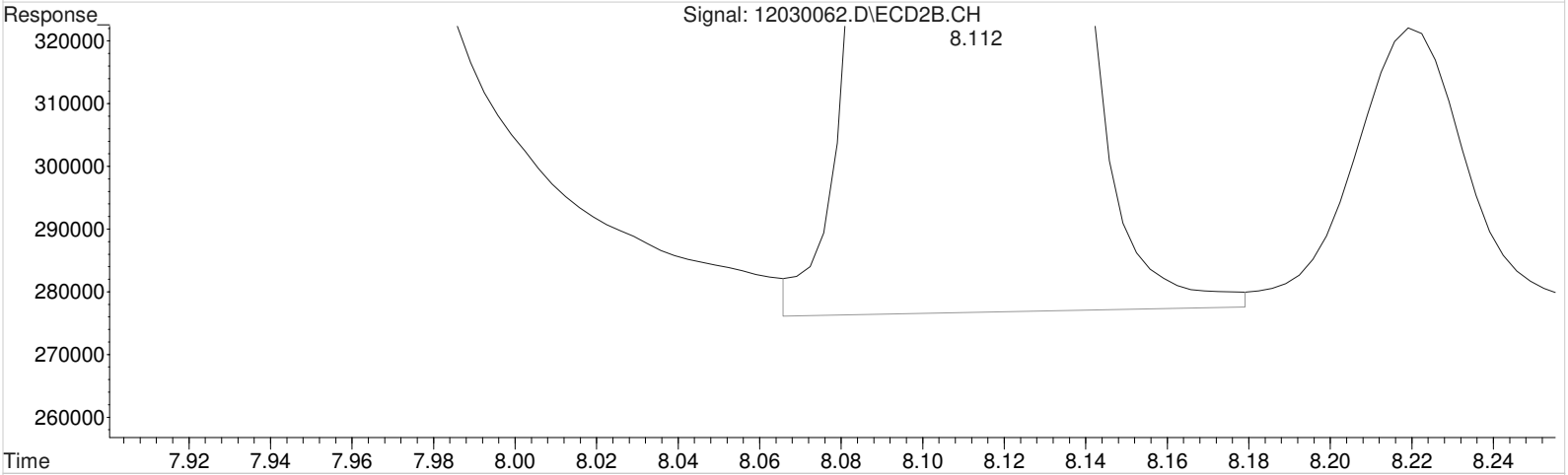
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(4) MCPP (m)

8.292min 10295.826 ppb

response 454806

(4) MCPP #2 (m)

8.112min 12469.727 ppb

response 2009508

Manual Integration:

Before

12/04/20

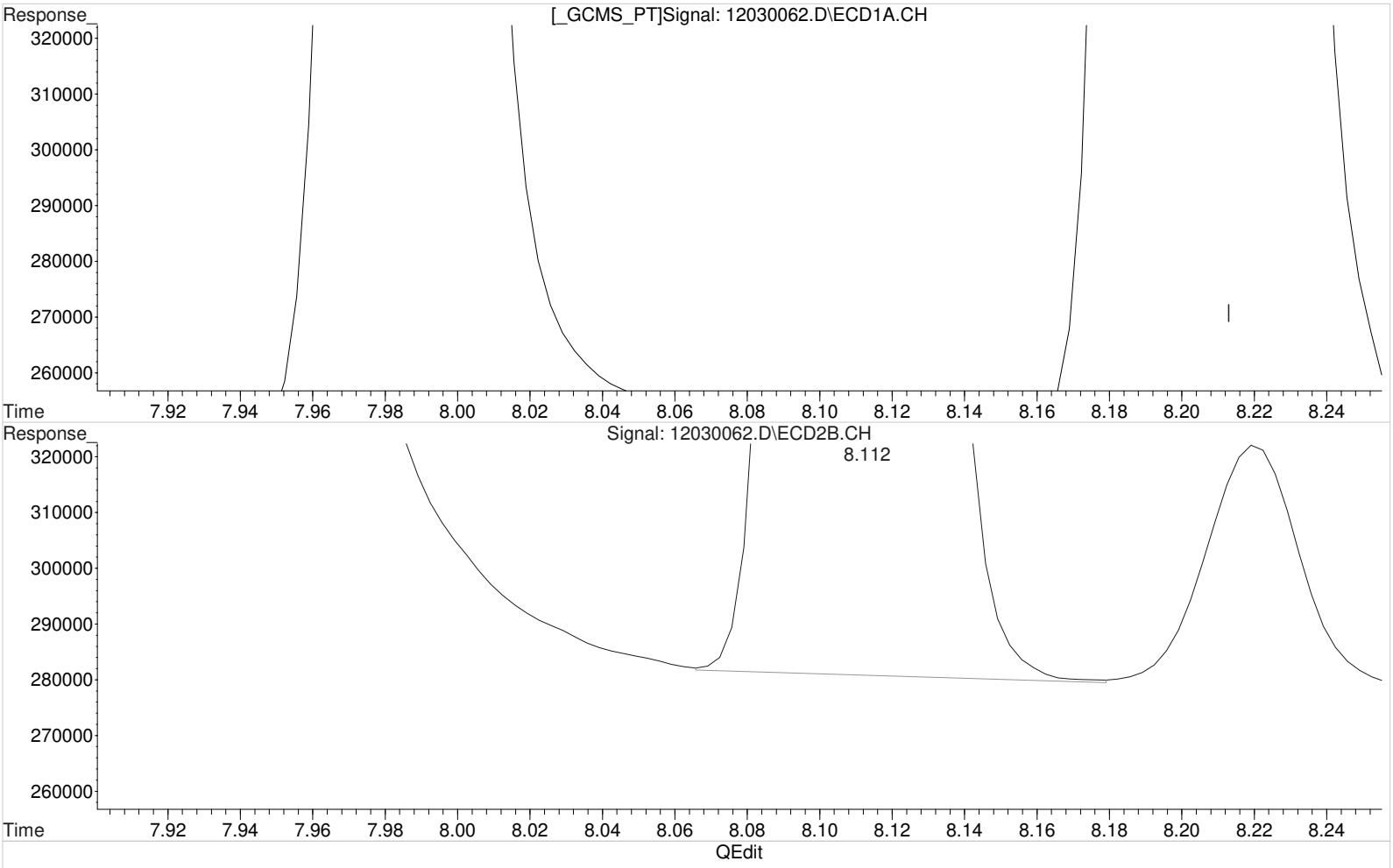
(+) = Expected Retention Time

1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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



(4) MCPP (m)

8.292min 10295.826 ppb

response 454806

Manual Integration:

After

Baseline/Shoulder

12/04/20

(4) MCPP #2 (m)

8.112min 12293.362 ppb m

response 1983990

(+) = Expected Retention Time

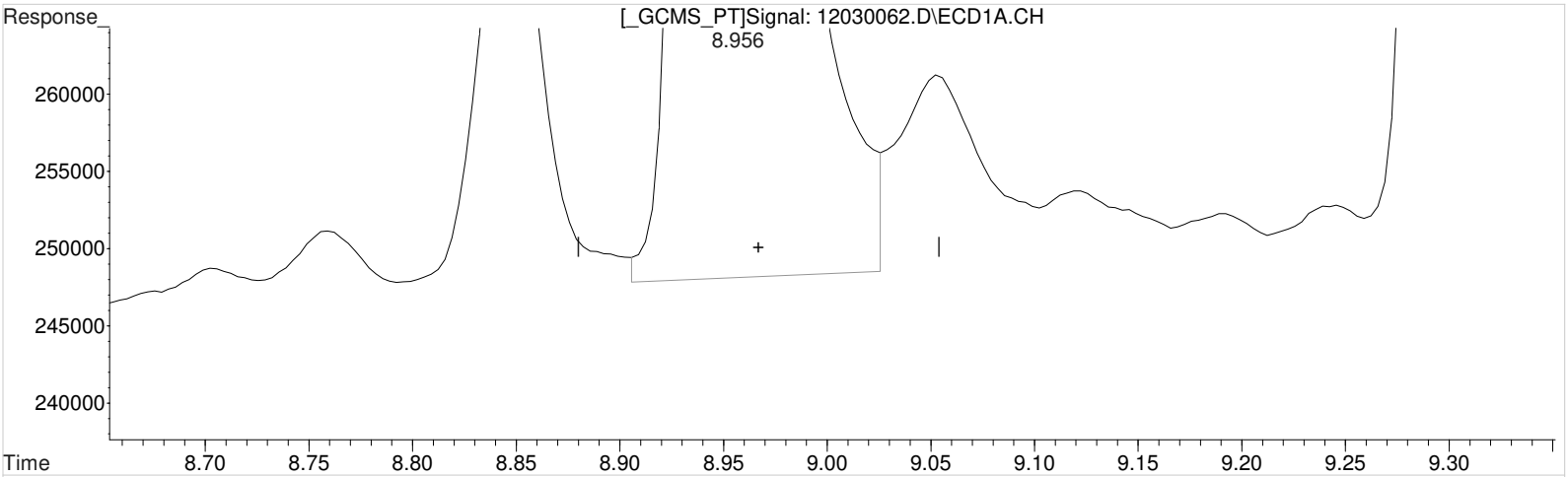
Quantitation Report (Qedit)

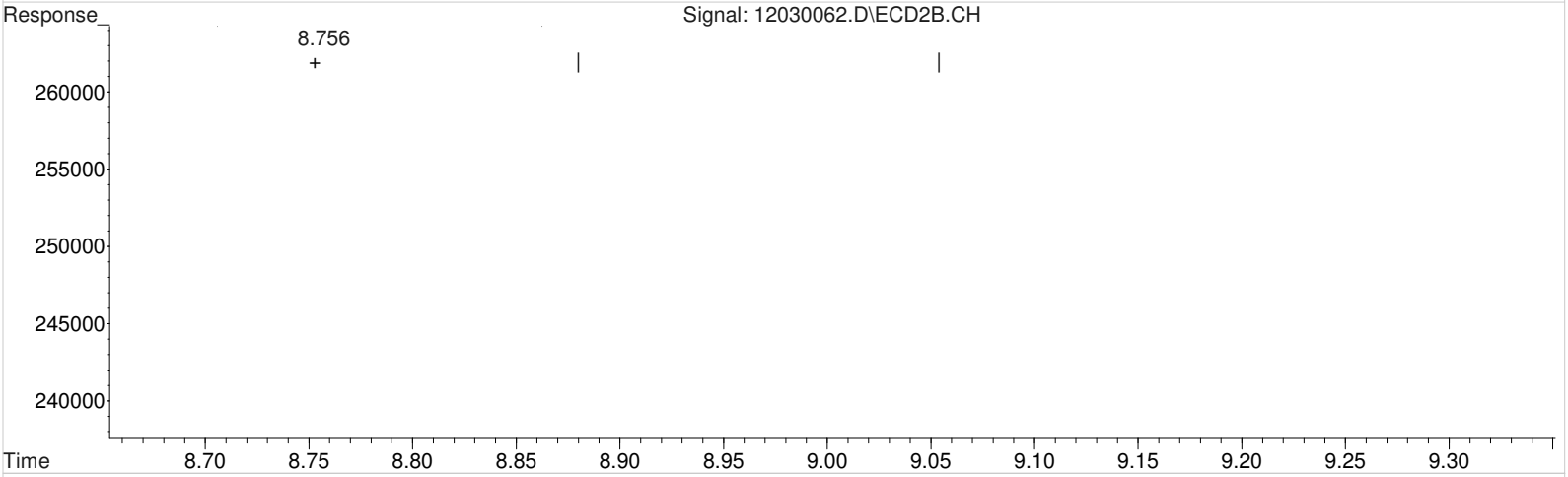
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(6) Dichloroprop (m)

8.956min 91.905 ppb

response 1713831

Manual Integration:

Before

12/04/20

(6) Dichloroprop #2 (m)

8.756min 115.045 ppb

response 4799135

(+) = Expected Retention Time

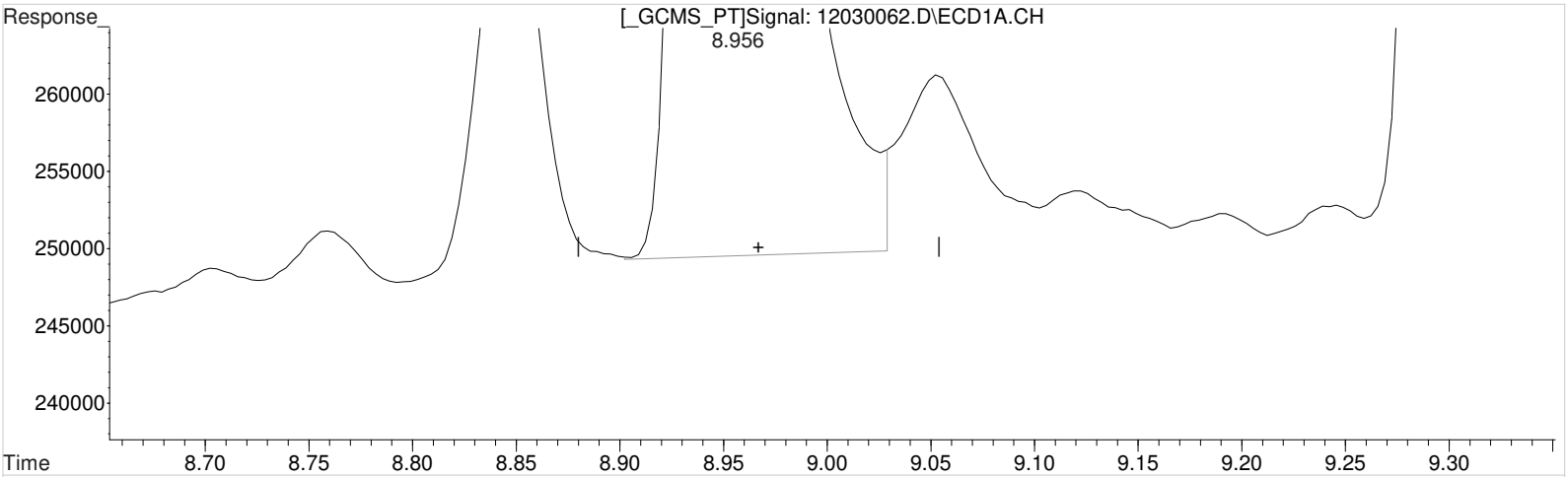
Quantitation Report (Qedit)

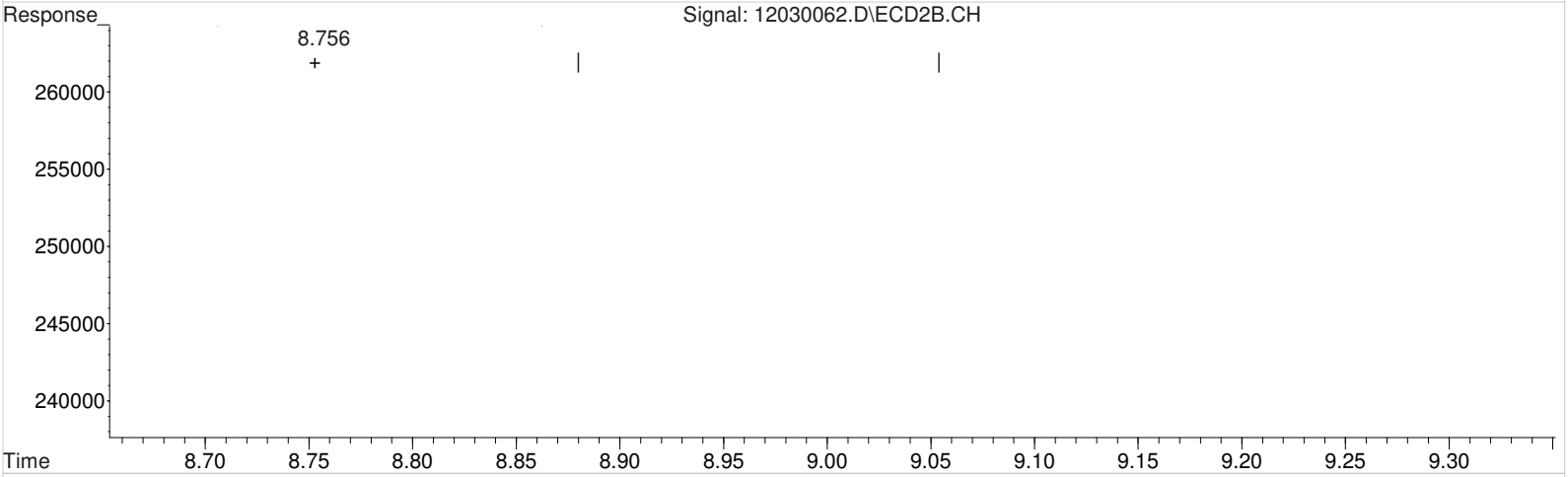
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(6) Dichloroprop (m)

8.956min 91.432 ppb m

response 1705004

Manual Integration:

After

Baseline/Shoulder

12/04/20

(6) Dichloroprop #2 (m)

8.756min 115.045 ppb

response 4799135

(+) = Expected Retention Time

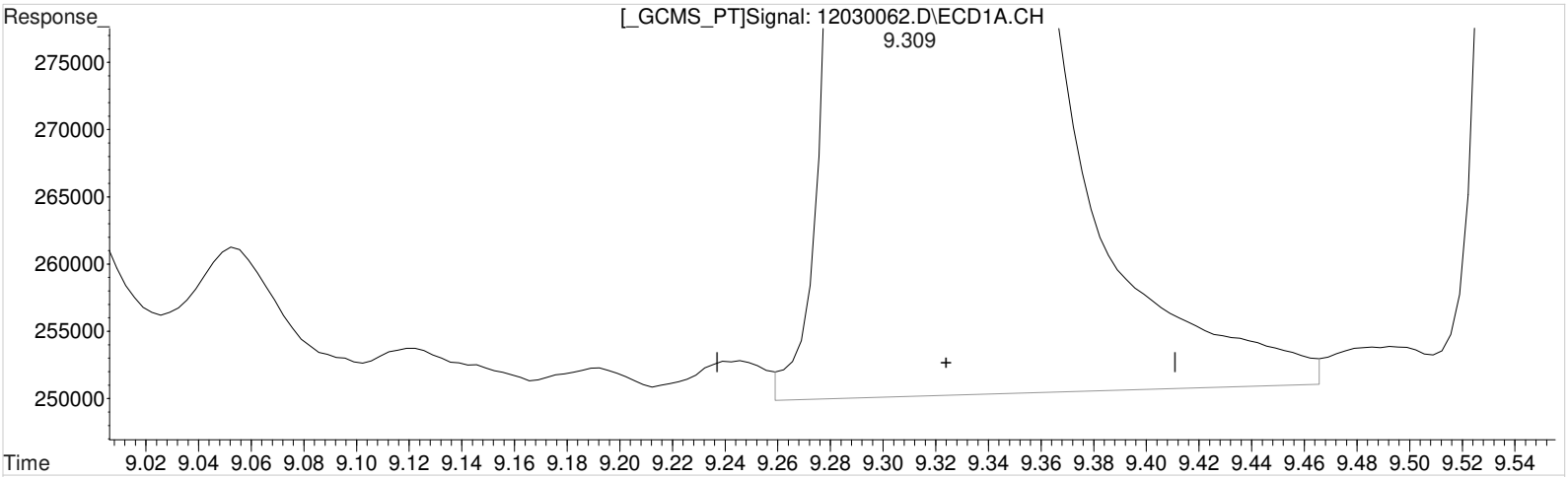
Quantitation Report (Qedit)

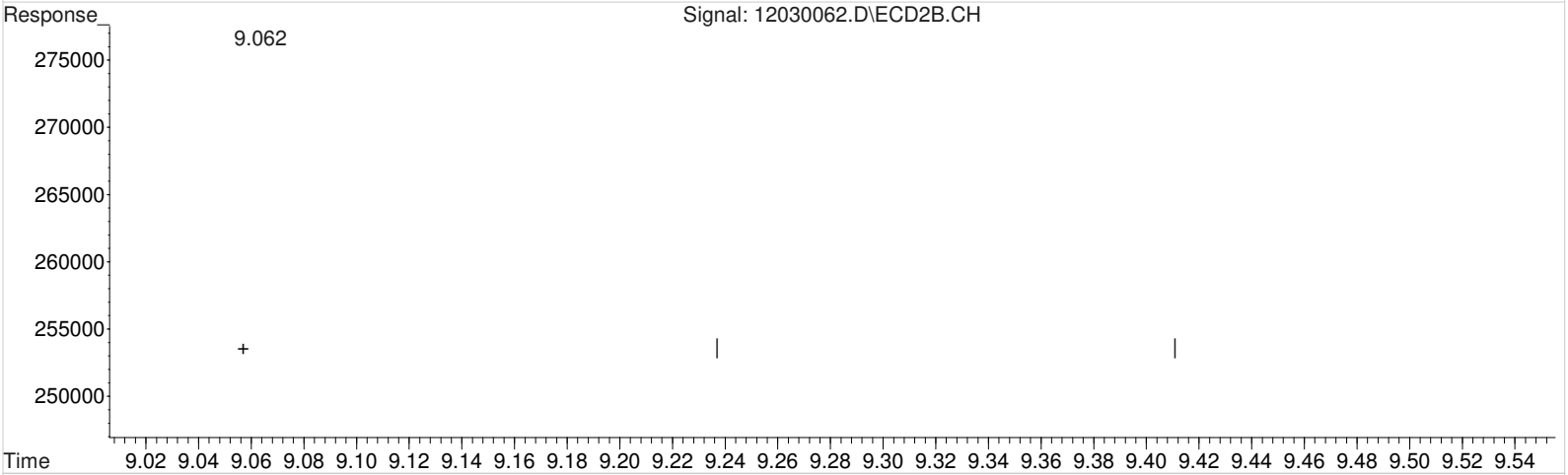
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(7) 2,4-D (m)

9.309min 91.187 ppb

response 1936815

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

9.062min 116.478 ppb

response 5963515

Manual Integration:

Before

12/04/20

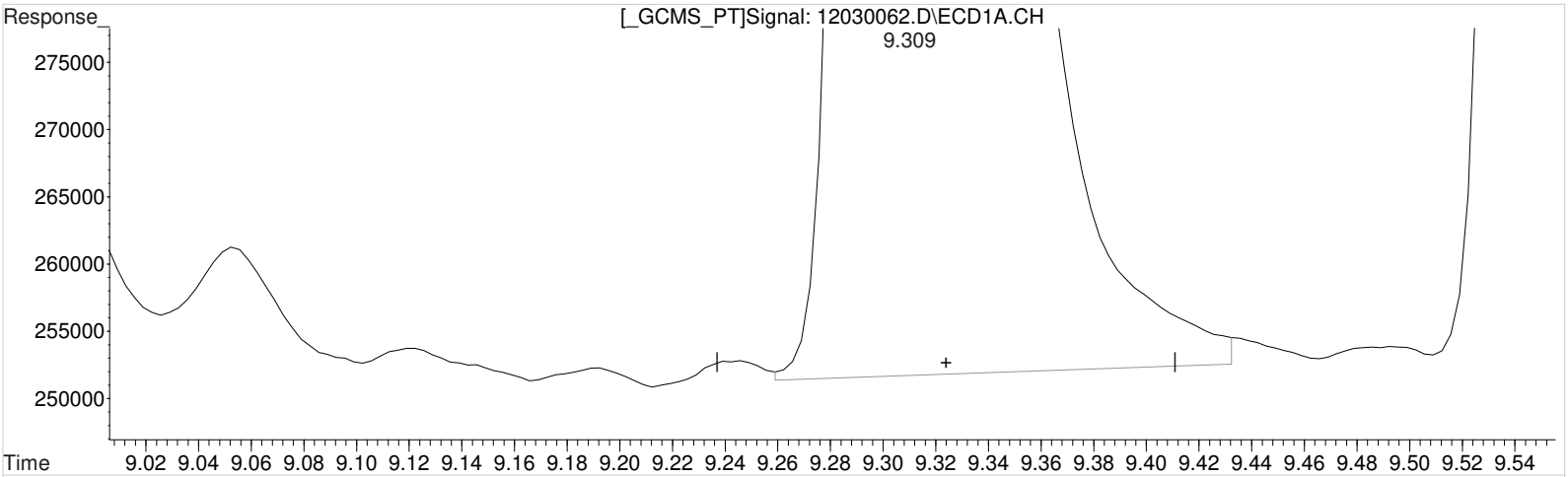
(+) = Expected Retention Time

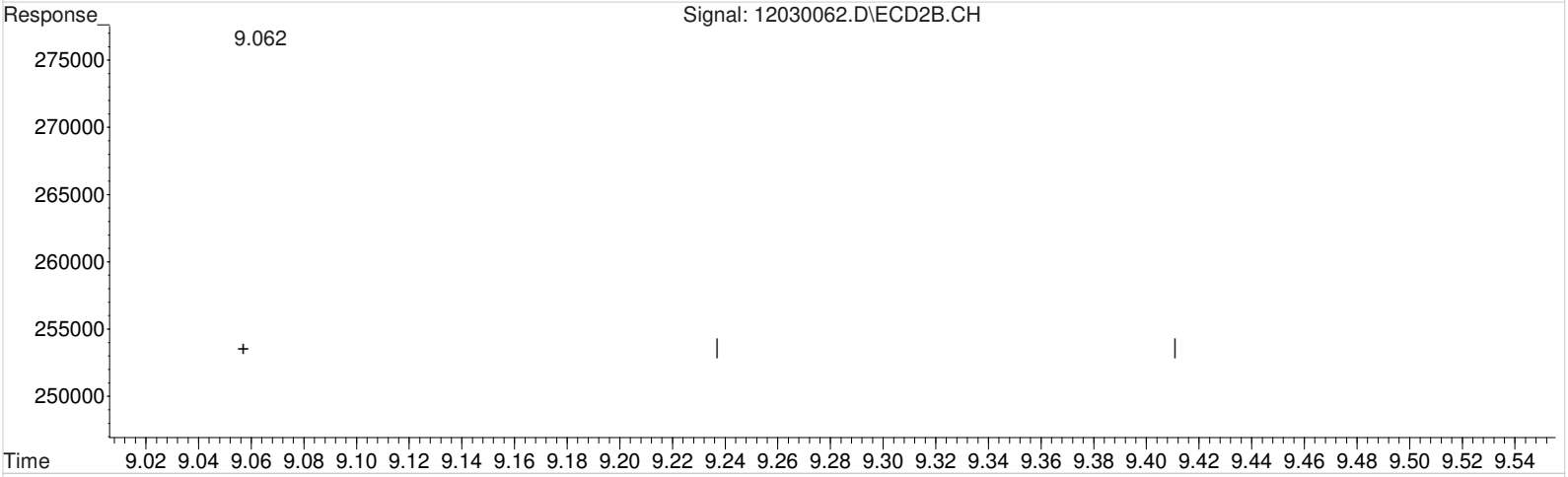
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

(7) 2,4-D (m)

9.309min 90.157 ppb m

response 1914950

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

9.062min 116.478 ppb

response 5963515

(+) = Expected Retention Time

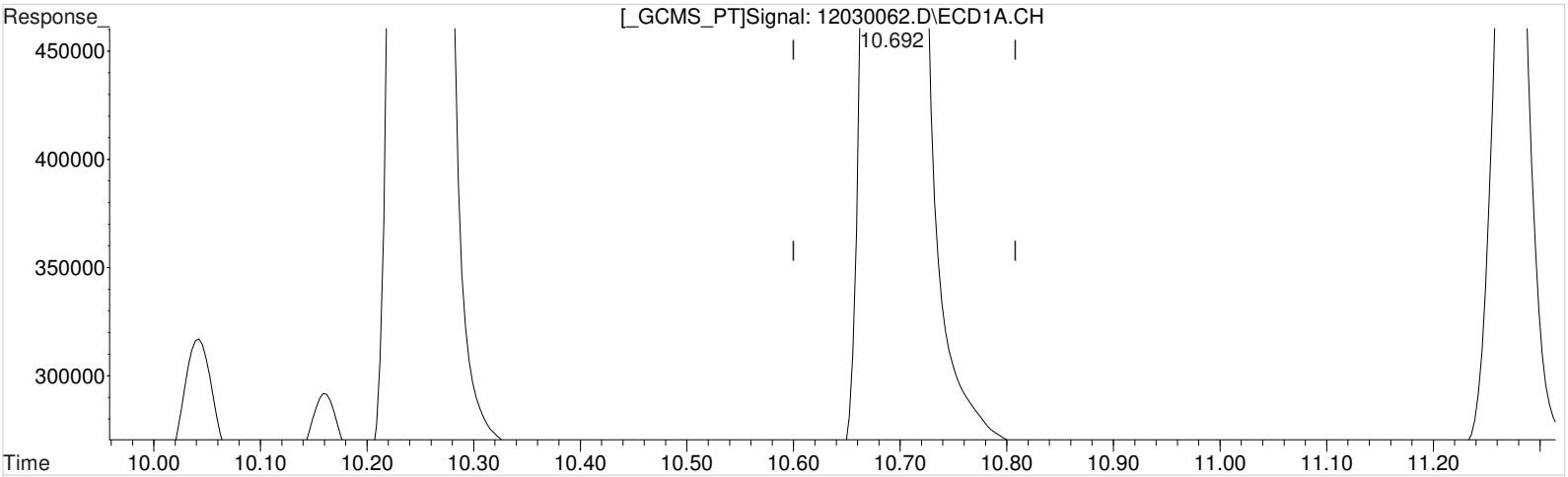
Quantitation Report (Qedit)

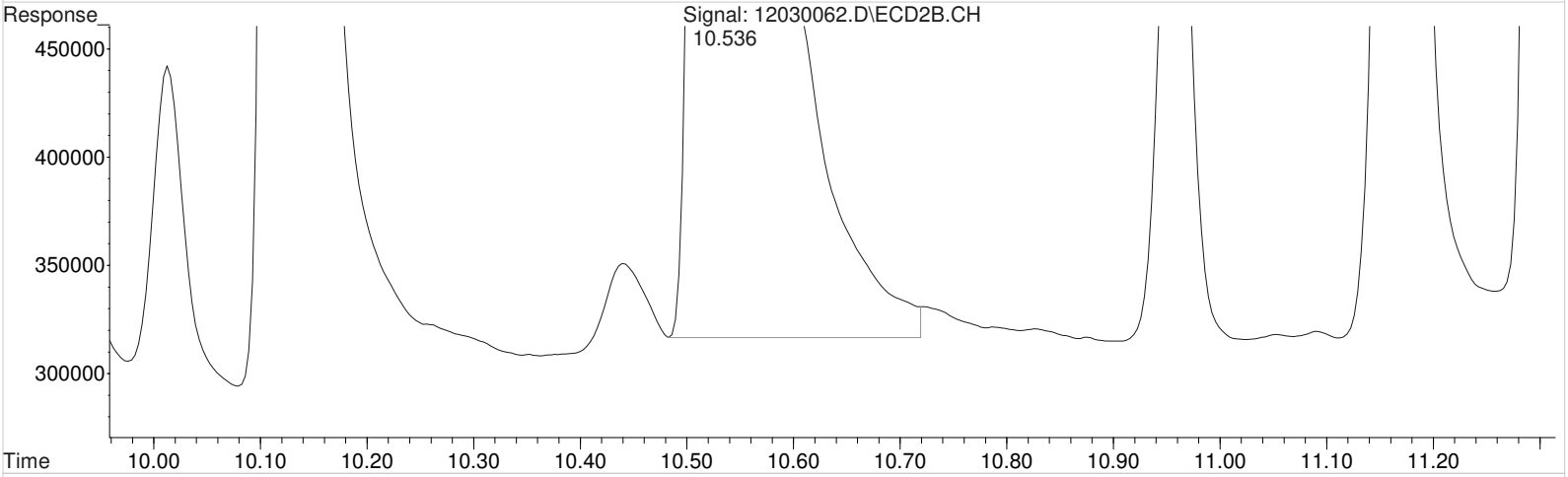
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

10.692min 85.836 ppb

response 7082305

Manual Integration:

Before

12/04/20

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

10.536min 115.835 ppb

response 22166974

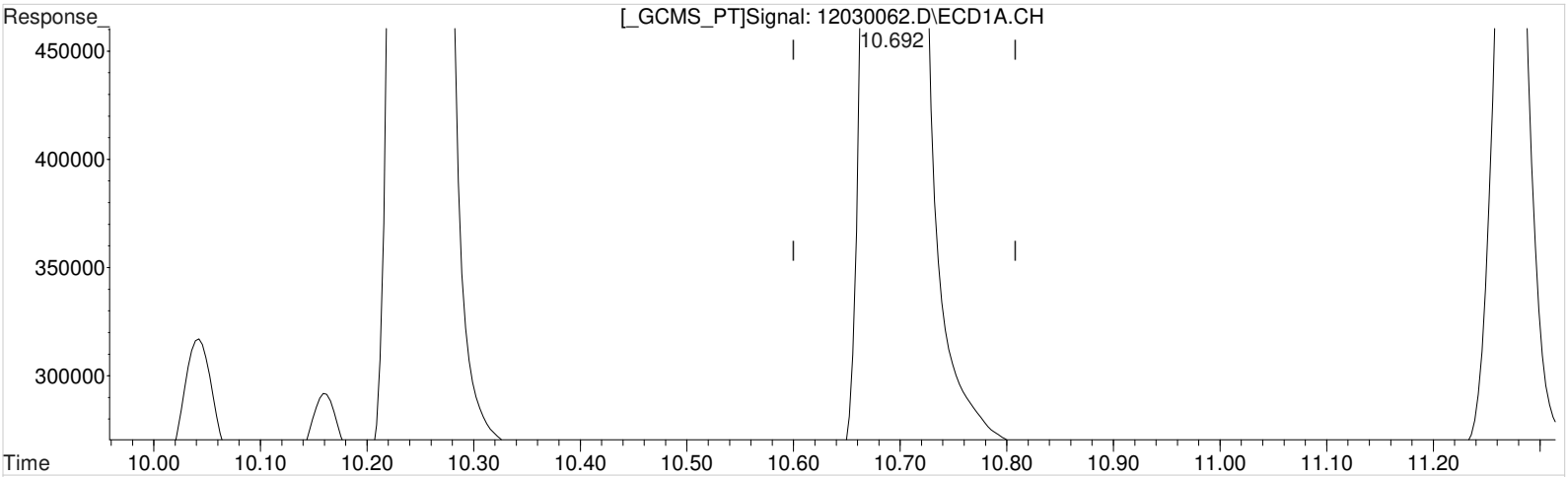
(+) = Expected Retention Time

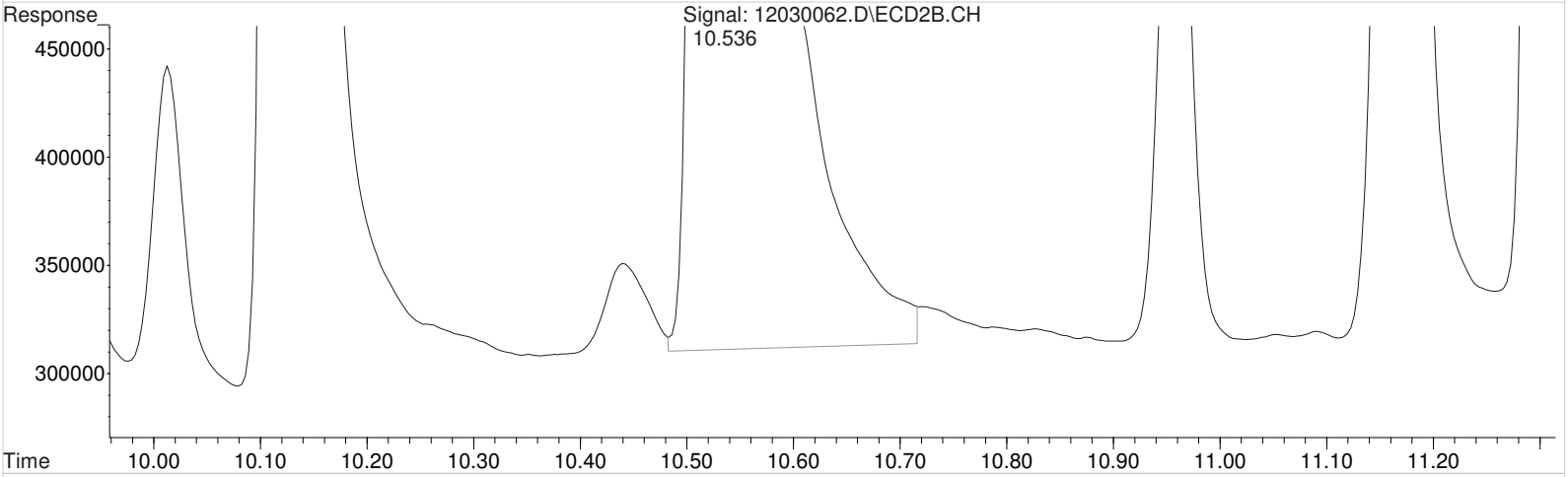
1st 12/04/20
2nd 12/05/20

Data File : J:\gc24\data\120320\12030062.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2020 12:06 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: Dec 04 14:59:37 2020
Quant Results File: 102120_8151.RES

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

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





QEdit

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

10.692min 85.836 ppb

response 7082305

Manual Integration:

After

Baseline/Shoulder

12/04/20

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

10.536min 116.144 ppb m

response 22226066

(+) = Expected Retention Time

Injection Log

Directory: J:\gc24\data\102120

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	100	10210001.d	1.	CCV PRIMER		21 Oct 2020 12:34
2	100	10210002.d	1.	CCV PRIMER		21 Oct 2020 12:58
3	1	10210003.d	1.	IB		Unrecognized:Un
4	3	10210004.d	1.	PENTA2-14K 10PPB		Unrecognized:Un
5	4	10210005.d	1.	PENTA2-14L 25PPB		Unrecognized:Un
6	5	10210006.d	1.	PENTA2-14M 75PPB		Unrecognized:Un
7	6	10210007.d	1.	PENTA2-14N 100PB		Unrecognized:Un
8	7	10210008.d	1.	PENTA2-15A 125PB		Unrecognized:Un
9	8	10210009.d	1.	PENTA2-15B 150PB		Unrecognized:Un
10	9	10210010.d	1.	PENTA2-15C 175PB		Unrecognized:Un
11	10	10210011.d	1.	PENTA2-15D 200PB		Unrecognized:Un
12	11	10210012.d	1.	PENTA2-15E ICV 100 PPB		Unrecognized:Un

ICAL: KC2000566

ALS-Kelso
Initial Calibration Checklist GC

Method: 8151A Herb
ICAL ID or Date: KC2000566
Instrument: GC-24

Primary	Secondary	
☑	☑	The new ICAL is saved with a unique ID.
☑	☑	ICAL was performed continuously (i.e. not interrupted by maintenance event).
☑	☑	All analytes in blank are < ½ MRL.
☑	☑	ICAL contains minimum number of concentrations.
☑	☑	No internal levels excluded for any analytes.
☑	☑	Retention times updated using a midpoint of the calibration. Secondary reviewer doubl check peak IDs.
☑	☑	Calibration files quantitated with new method.
☑	☑	Check integrations. Primary reviewer must check all integrations electronically. Secondary reviewer will check low point and high point electronically.
☑	☑	ICAL files added to calibration table.
☑	☑	The average RF or COD meets method criteria for all analytes.
☑	☑	ICV is quantitated against new ICAL.
☑	☑	ICV meets method criteria.
☑	☑	Linked in ~~Stealth~~ LIMS to an appropriate method. An appropriate method will be one that contains all analytes that were analyzed.
☑	☑	All calibration reports included: ICAL SUMMARY, ICAL DETAILED, ICV SUMMARY.
☑	☑	Enviroquant/Target responses match those in ~~Stealth~~ LIMS.
☑	☑	All quant reports and manual integrations initialed and dated.

Data packet should be in the following order: Sequence log, Calibration Review, Stealth ICAL reports, and quant reports.

Primary: _____ Date: 10-21-20

Secondary: _____ Date: 10/22/20

Response Factor Report HP G1530A

Method Path : J:\gc24\Methods\
Method File : 102120_8151.M
Title : 103118_8151.m MJ215 CAL_KC1800
Last Update : Wed Oct 21 17:31:59 2020
Response Via : Initial Calibration

Calibration Files
1 =10210004.D 2 =10210005.D =
4 =10210006.D 5 =10210007.D 6 =10210008.D

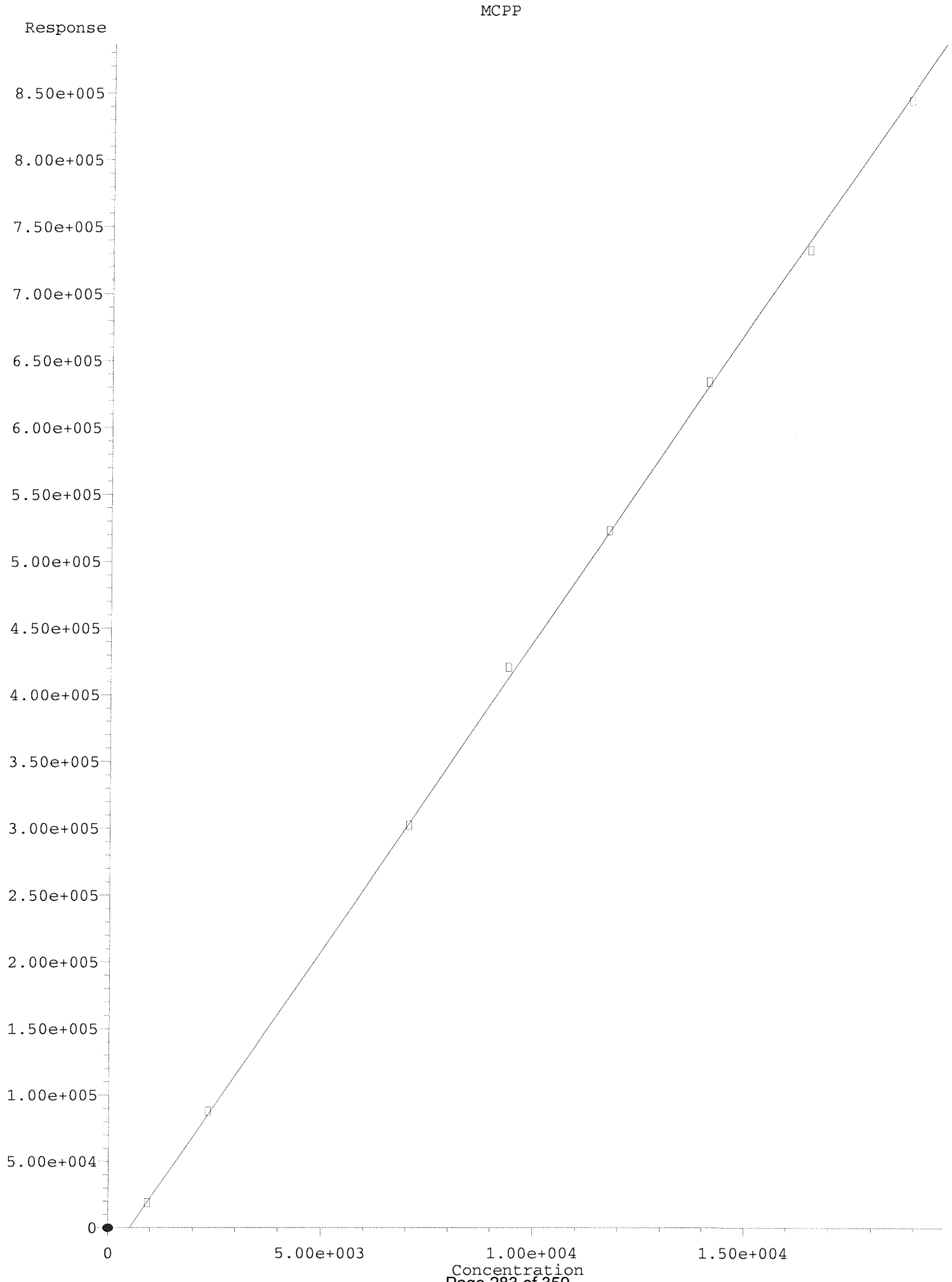
		Compound	1	2	4	5	6	Avg		%RSD
1)	m	Dalapon	2.671	2.733	2.254	2.374	2.344	2.385	2.426 E4	7.29
2)	s	2,4-Dichlorop...	2.115	2.015	1.798	1.794	1.738	1.732	1.820 E4	8.79
3)	m	Dicamba	7.596	7.540	6.777	6.892	6.778	6.830	6.980 E4	5.27
4)	m	MCPP	2.001	3.740	4.291	4.480	4.454	4.501	4.053 E1	21.41
5)	m	MCPA	4.567	6.110	6.022	6.133	6.030	6.046	5.855 E1	8.95
6)	m	Dichloroprop	2.275	2.117	1.795	1.815	1.755	1.752	1.865 E4	11.40
7)	m	2,4-D	2.488	2.377	2.075	2.056	2.029	2.025	2.124 E4	9.25
8)	m	2,4,5-TP (Sil...	9.752	9.790	9.082	9.310	9.221	9.360	9.368 E4	2.80
9)	m	2,4,5-T	8.692	8.723	8.157	8.121	8.142	8.264	8.251 E4	3.64
10)	m	2,4-DB	1.110	1.172	1.003	0.994	1.001	1.003	1.026 E4	7.40
11)	m	Dinoseb	6.933	6.670	6.137	6.031	5.965	6.030	6.187 E4	6.41

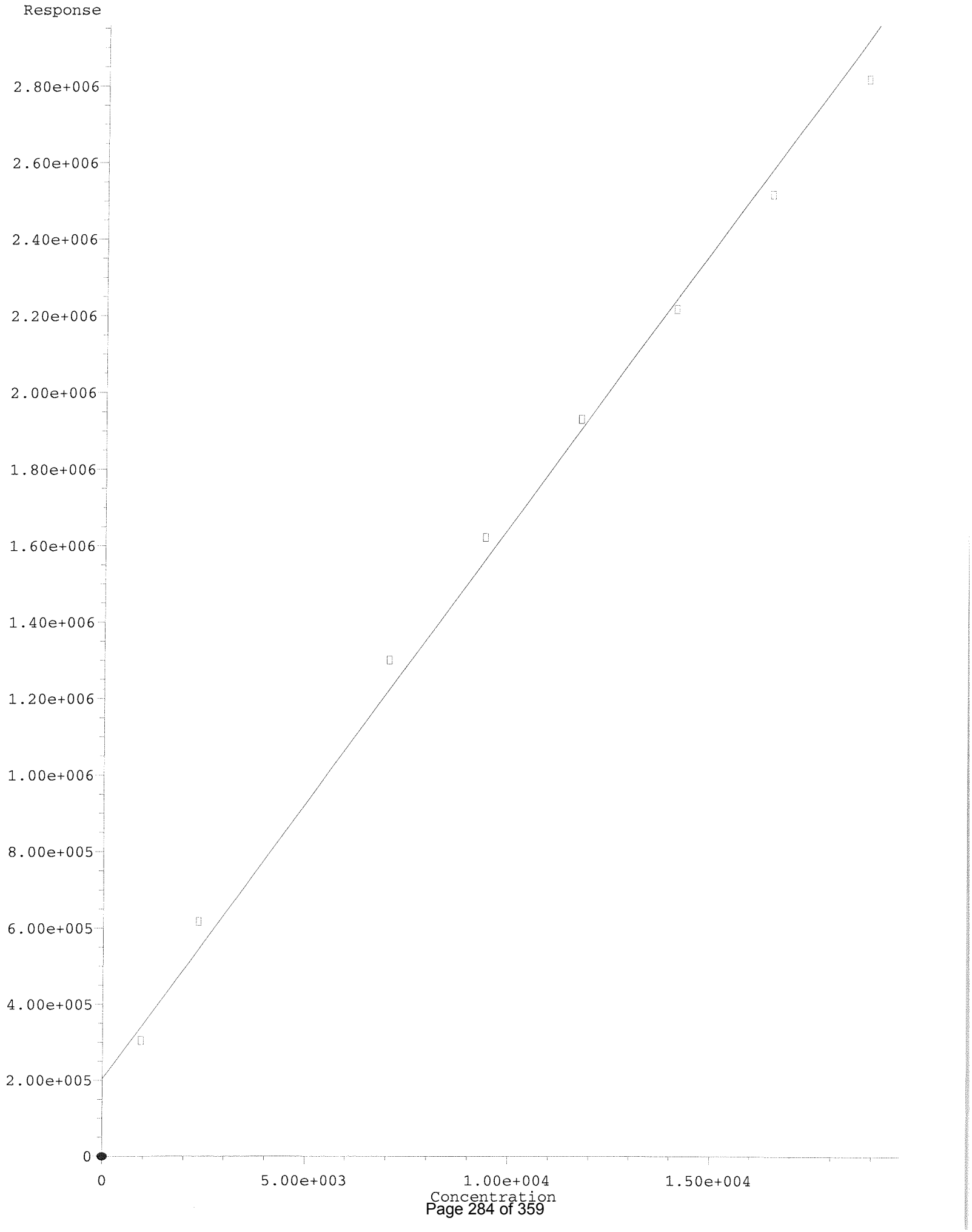
Signal #2 Calibration Files
1 =10210004.D 2 =10210005.D =
4 =10210006.D 5 =10210007.D 6 =10210008.D

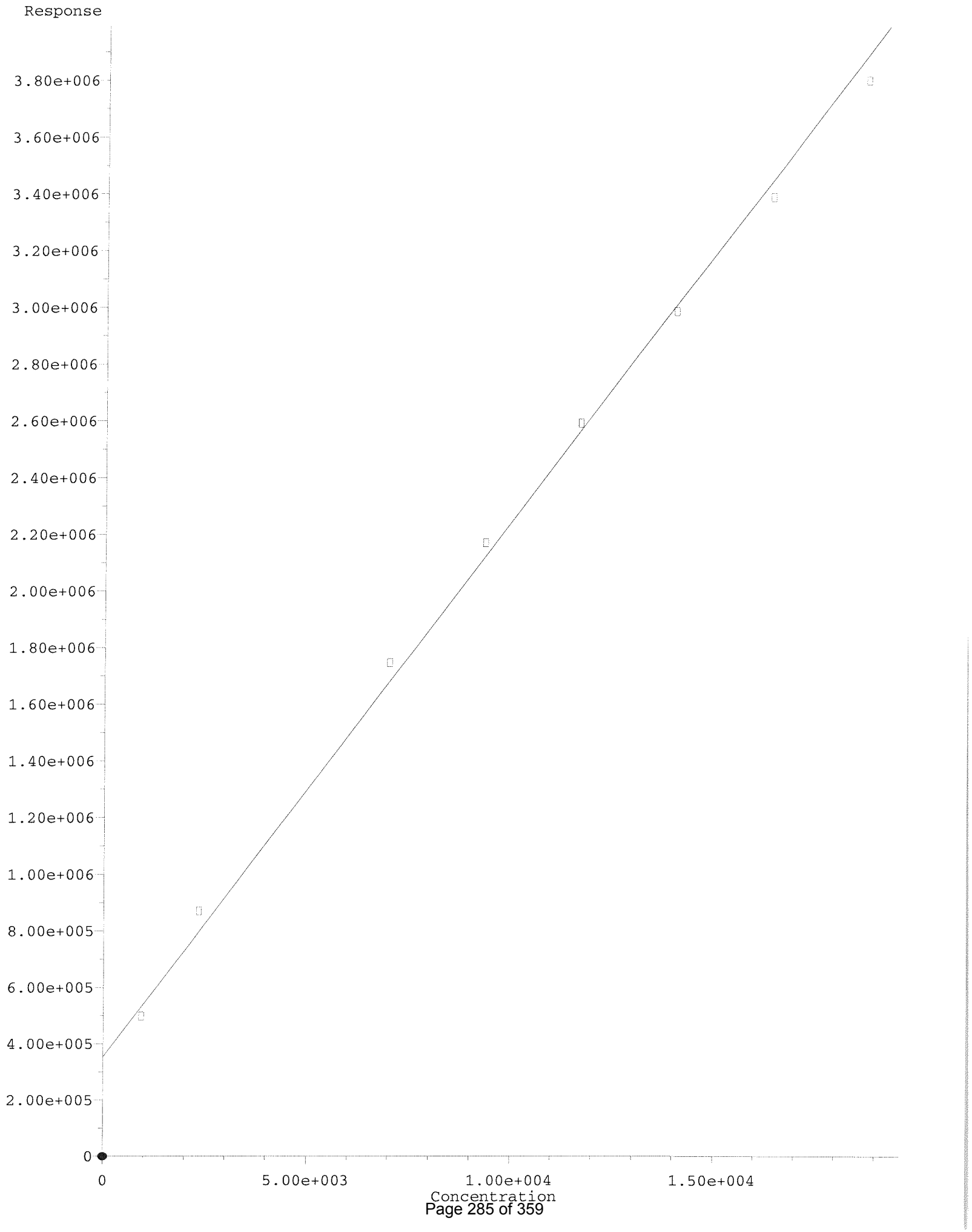
		Compound	1	2	4	5	6	Avg		%RSD
1)	m	Dalapon	5.105	5.207	4.698	4.631	4.838	4.664	4.831 E4	4.39
2)	s	2,4-Dichlorop...	5.587	4.943	4.041	3.953	3.892	3.822	4.230 E4	15.77
3)	m	Dicamba	1.724	1.593	1.424	1.430	1.425	1.416	1.482 E5	7.71
4)	m	MCPP	3.248	2.629	1.847	1.727	1.645	1.574	1.963 E2	32.32
5)	m	MCPA	5.322	3.724	2.492	2.323	2.218	2.130	2.789 E2	41.64
6)	m	Dichloroprop	5.440	4.793	3.993	3.939	3.868	3.809	4.172 E4	14.71
7)	m	2,4-D	6.995	5.929	4.845	4.767	4.681	4.616	5.120 E4	17.22
8)	m	2,4,5-TP (Sil...	2.358	2.178	1.953	1.956	1.949	1.947	2.030 E5	7.62
9)	m	2,4,5-T	2.241	2.074	1.833	1.848	1.821	1.835	1.914 E5	8.20
10)	m	2,4-DB	3.572	3.225	2.779	2.756	2.726	2.732	2.902 E4	11.07
11)	m	Dinoseb	1.678	1.515	1.309	1.301	1.294	1.286	1.368 E5	10.83

(#) = Out of Range ### Number of calibration levels exceeded format ###

102120_8151.M Wed Oct 21 17:48:58 2020


MCPP
Response
8.50e+005
8.00e+005
7.50e+005
7.00e+005
6.50e+005
6.00e+005
5.50e+005
5.00e+005
4.50e+005
4.00e+005
3.50e+005
3.00e+005
2.50e+005
2.00e+005
1.50e+005
1.00e+005
5.00e+004
0
0
5.00e+003
1.00e+004
1.50e+004
Concentration


MCPP #2
Response
2.80e+006
2.60e+006
2.40e+006
2.20e+006
2.00e+006
1.80e+006
1.60e+006
1.40e+006
1.20e+006
1.00e+006
8.00e+005
6.00e+005
4.00e+005
2.00e+005
0
0
5.00e+003
1.00e+004
1.50e+004
Concentration


MCPA #2
Response
3.80e+006
3.60e+006
3.40e+006
3.20e+006
3.00e+006
2.80e+006
2.60e+006
2.40e+006
2.20e+006
2.00e+006
1.80e+006
1.60e+006
1.40e+006
1.20e+006
1.00e+006
8.00e+005
6.00e+005
4.00e+005
2.00e+005
0
0
5.00e+003
1.00e+004
1.50e+004
Concentration

Initial Calibration - Detailed Report

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

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

Analyte **Curve Fit** **Weighting**

2,4,5-T

Average RF **RSD = 3.638** **Average RF = 8.251E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.480	8.692E4	02	23.700	8.723E4	03	71.100	8.157E4	04	94.800	8.121E4
05	118.490	8.142E4	06	142.190	8.264E4	07	165.890	7.962E4	08	189.590	7.946E4

2,4,5-TP

Average RF **RSD = 2.798** **Average RF = 9.368E4**

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

2,4-D

Average RF **RSD = 9.253** **Average RF = 2.124E4**

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

2,4-DB

Average RF **RSD = 7.4** **Average RF = 1.026E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.470	1.11E4	02	23.670	1.172E4	03	71.000	1.003E4	04	94.700	9.938E3
05	118.330	1.001E4	06	142.000	1.003E4	07	165.670	9.847E3	08	189.340	9.399E3

Dalapon

Average RF **RSD = 7.292** **Average RF = 2.426E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.110	2.671E4	02	22.770	2.733E4	03	68.300	2.254E4	04	91.100	2.374E4
05	113.830	2.344E4	06	136.600	2.385E4	07	159.360	2.357E4	08	182.130	2.287E4

Dicamba

Average RF **RSD = 5.272** **Average RF = 6.98E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	7.596E4	02	23.510	7.54E4	03	70.500	6.777E4	04	94.000	6.892E4
05	117.540	6.778E4	06	141.050	6.83E4	07	164.560	6.719E4	08	188.060	6.708E4

Dichlorprop

Average RF **RSD = 11.4** **Average RF = 1.865E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.440	2.275E4	02	23.590	2.117E4	03	70.800	1.795E4	04	94.400	1.815E4
05	117.960	1.755E4	06	141.550	1.752E4	07	165.140	1.724E4	08	188.730	1.684E4

Dinoseb

Average RF **RSD = 6.412** **Average RF = 6.187E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.450	6.933E4	02	23.620	6.67E4	03	70.900	6.137E4	04	94.500	6.031E4
05	118.100	5.965E4	06	141.720	6.03E4	07	165.340	5.89E4	08	188.960	5.837E4

Initial Calibration - Detailed Report

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

MCPA

Average RF | **RSD = 8.948** | **Average RF = 5.855E1**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	934.770	45.67	02	2336.600	61.1	03	7010.000	60.22	04	9346.000	61.33
05	11683.010	60.3	06	14019.610	60.46	07	16356.210	59.76	08	18692.820	59.57

MCPP

Linear **1/X** | **R2 = 0.99984741644702** | **Y=46.47 X+-2.364E+04**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	938.770	20.01	02	2346.620	37.4	03	7040.000	42.91	04	9386.000	44.8
05	11733.100	44.54	06	14079.720	45.01	07	16426.340	44.58	08	18772.960	44.98

2,4-Dichlorophenylacetic Acid

Average RF | **RSD = 8.791** | **Average RF = 1.82E4**

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

Analyte

2,4,5-T

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.480	9.99	5.3	02	23.700	25.1	5.7	03	71.100	70.3	-1.1
04	94.800	93.3	-1.6	05	118.490	117	-1.3	06	142.190	142	0.2
07	165.890	160	-3.5	08	189.590	183	-3.7				

2,4,5-TP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.510	9.90	4.1	02	23.760	24.8	4.5	03	71.300	69.1	-3.1
04	95.100	94.5	-0.6	05	118.820	117	-1.6	06	142.580	142	-0.1
07	166.340	164	-1.3	08	190.100	186	-2.0				

2,4-D

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	11.0	17.2	02	23.510	26.3	11.9	03	70.500	68.9	-2.3
04	94.000	91.0	-3.2	05	117.540	112	-4.5	06	141.050	134	-4.7
07	164.560	154	-6.3	08	188.060	173	-8.2				

2,4-DB

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.470	10.2	8.2	02	23.670	27.0	14.3	03	71.000	69.4	-2.3
04	94.700	91.7	-3.1	05	118.330	116	-2.4	06	142.000	139	-2.3
07	165.670	159	-4.0	08	189.340	173	-8.4				

Dalapon

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.110	10.0	10.1	02	22.770	25.7	12.7	03	68.300	63.5	-7.1
04	91.100	89.1	-2.1	05	113.830	110	-3.4	06	136.600	134	-1.7
07	159.360	155	-2.8	08	182.130	172	-5.7				

Dicamba

Initial Calibration - Detailed Report

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

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	10.2	8.8	02	23.510	25.4	8.0	03	70.500	68.5	-2.9
04	94.000	92.8	-1.3	05	117.540	114	-2.9	06	141.050	138	-2.2
07	164.560	158	-3.7	08	188.060	181	-3.9				

Dichlorprop

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.440	11.5	22.0	02	23.590	26.8	13.5	03	70.800	68.2	-3.7
04	94.400	91.9	-2.7	05	117.960	111	-5.9	06	141.550	133	-6.0
07	165.140	153	-7.6	08	188.730	170	-9.7				

Dinoseb

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.450	10.6	12.1	02	23.620	25.5	7.8	03	70.900	70.3	-0.8
04	94.500	92.1	-2.5	05	118.100	114	-3.6	06	141.720	138	-2.5
07	165.340	157	-4.8	08	188.960	178	-5.6				

MCPA

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	934.770	729	-22.0	02	2336.600	2440	4.4	03	7010.000	7210	2.8
04	9346.000	9790	4.7	05	11683.010	12000	3.0	06	14019.610	14500	3.3
07	16356.210	16700	2.1	08	18692.820	19000	1.7				

MCPP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	938.770	913	-2.8	02	2346.620	2400	2.2	03	7040.000	7010	-0.4
04	9386.000	9560	1.8	05	11733.100	11800	0.2	06	14079.720	14100	0.5
07	16426.340	16300	-1.0	08	18772.960	18700	-0.5				

2,4-Dichlorophenylacetic Acid

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.020	10.5	16.3	02	22.550	25.0	10.7	03	67.600	66.8	-1.2
04	90.200	88.9	-1.4	05	112.730	108	-4.5	06	135.280	129	-4.8
07	157.830	147	-6.9	08	180.370	166	-8.2				

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

Initial Calibration - Detailed Report

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

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

Analyte **Curve Fit** **Weighting**

2,4,5-T

Average RF **RSD = 8.204** **Average RF = 1.914E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.480	2.241E5	02	23.700	2.074E5	03	71.100	1.833E5	04	94.800	1.848E5
05	118.490	1.821E5	06	142.190	1.835E5	07	165.890	1.828E5	08	189.590	1.83E5

2,4,5-TP

Average RF **RSD = 7.62** **Average RF = 2.03E5**

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

2,4-D

Average RF **RSD = 17.22** **Average RF = 5.12E4**

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

2,4-DB

Average RF **RSD = 11.07** **Average RF = 2.902E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.470	3.572E4	02	23.670	3.225E4	03	71.000	2.779E4	04	94.700	2.756E4
05	118.330	2.726E4	06	142.000	2.732E4	07	165.670	2.706E4	08	189.340	2.717E4

Dalapon

Average RF **RSD = 4.39** **Average RF = 4.831E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.110	5.105E4	02	22.770	5.207E4	03	68.300	4.698E4	04	91.100	4.631E4
05	113.830	4.838E4	06	136.600	4.664E4	07	159.360	4.774E4	08	182.130	4.733E4

Dicamba

Average RF **RSD = 7.713** **Average RF = 1.482E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	1.724E5	02	23.510	1.593E5	03	70.500	1.424E5	04	94.000	1.43E5
05	117.540	1.425E5	06	141.050	1.416E5	07	164.560	1.42E5	08	188.060	1.426E5

Dichlorprop

Average RF **RSD = 14.71** **Average RF = 4.172E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.440	5.44E4	02	23.590	4.793E4	03	70.800	3.993E4	04	94.400	3.939E4
05	117.960	3.868E4	06	141.550	3.809E4	07	165.140	3.779E4	08	188.730	3.751E4

Dinoseb

Average RF **RSD = 10.83** **Average RF = 1.368E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.450	1.678E5	02	23.620	1.515E5	03	70.900	1.309E5	04	94.500	1.301E5
05	118.100	1.294E5	06	141.720	1.286E5	07	165.340	1.279E5	08	188.960	1.278E5

Initial Calibration - Detailed Report

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

MCPA **Linear** **1/X** **R2 = 0.9970434185726530** **Y=189.2 X+3.555E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	934.770	532.2	02	2336.600	372.4	03	7010.000	249.2	04	9346.000	232.3
05	11683.010	221.8	06	14019.610	213	07	16356.210	207.2	08	18692.820	203.3

MCPP **Linear** **1/X** **R2 = 0.9944121406118910** **Y=144.7 X+2.053E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	938.770	324.8	02	2346.620	262.9	03	7040.000	184.7	04	9386.000	172.7
05	11733.100	164.5	06	14079.720	157.4	07	16426.340	153.2	08	18772.960	150.1

2,4-Dichlorophenylacetic Acid **Average RF** **RSD = 15.77** **Average RF = 4.23E4**

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

Analyte

2,4,5-T

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.480	11.1	17.1	02	23.700	25.7	8.4	03	71.100	68.1	-4.2
04	94.800	91.6	-3.4	05	118.490	113	-4.8	06	142.190	136	-4.1
07	165.890	159	-4.5	08	189.590	181	-4.4				

2,4,5-TP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.510	11.0	16.2	02	23.760	25.5	7.3	03	71.300	68.6	-3.8
04	95.100	91.6	-3.7	05	118.820	114	-4.0	06	142.580	137	-4.1
07	166.340	159	-4.2	08	190.100	183	-3.8				

2,4-D

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	12.8	**36.6**	02	23.510	27.2	15.8	03	70.500	66.7	-5.4
04	94.000	87.5	-6.9	05	117.540	107	-8.6	06	141.050	127	-9.8
07	164.560	147	-10.6	08	188.060	167	-11.1				

2,4-DB

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.470	11.7	23.1	02	23.670	26.3	11.2	03	71.000	68.0	-4.2
04	94.700	90.0	-5.0	05	118.330	111	-6.1	06	142.000	134	-5.8
07	165.670	154	-6.8	08	189.340	177	-6.4				

Dalapon

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.110	9.63	5.7	02	22.770	24.5	7.8	03	68.300	66.4	-2.8
04	91.100	87.3	-4.1	05	113.830	114	0.1	06	136.600	132	-3.5
07	159.360	157	-1.2	08	182.130	178	-2.0				

Dicamba

Initial Calibration Verification Summary Report

Calibration ID:	KC2000566	**Instrument ID:**	K-GC-24
Datafile ID:	J:\gc24\data\102120\10210012.D	**Column Name:**	ZB-XLB-HT

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
2,4,5-T	KC2000566-09	T	Average RF	94.80	98.768	ppb	4.2	<= 20
2,4,5-TP	KC2000566-09	T	Average RF	95.10	92.500	ppb	-2.7	<= 20
2,4-D	KC2000566-09	T	Average RF	94	83.643	ppb	-11.0	<= 20
2,4-DB	KC2000566-09	T	Average RF	94.70	95.240	ppb	0.6	<= 20
Dalapon	KC2000566-09	T	Average RF	91.10	95.982	ppb	5.4	<= 20
Dicamba	KC2000566-09	T	Average RF	94	96.106	ppb	2.2	<= 20
Dichlorprop	KC2000566-09	T	Average RF	94.40	85.597	ppb	-9.3	<= 20
Dinoseb	KC2000566-09	T	Average RF	94.50	94.362	ppb	-0.1	<= 20
MCPA	KC2000566-09	T	Linear	9346	10030.937	ppb	7.3	<= 20
MCPP	KC2000566-09	T	Linear	9386	10136.279	ppb	8.0	<= 20

Calibration ID:	KC2000566	**Instrument ID:**	K-GC-24
Datafile ID:	J:\gc24\data\102120\10210012.D	**Column Name:**	RTX-CLP2

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
2,4,5-T	KC2000566-09	T	Average RF	94.80	98.209	ppb	3.6	<= 20
2,4,5-TP	KC2000566-09	T	Average RF	95.10	93.370	ppb	-1.8	<= 20
2,4-D	KC2000566-09	T	Average RF	94	90.423	ppb	-3.8	<= 20
2,4-DB	KC2000566-09	T	Average RF	94.70	93.935	ppb	-0.8	<= 20
Dalapon	KC2000566-09	T	Average RF	91.10	93.788	ppb	3.0	<= 20
Dicamba	KC2000566-09	T	Average RF	94	95.894	ppb	2.0	<= 20
Dichlorprop	KC2000566-09	T	Average RF	94.40	86.318	ppb	-8.6	<= 20
Dinoseb	KC2000566-09	T	Average RF	94.50	95.003	ppb	0.5	<= 20
MCPA	KC2000566-09	T	Average RF	9346	10069.096	ppb	7.7	<= 20
MCPP	KC2000566-09	T	Linear	9386	9672.717	ppb	3.1	<= 20

Initial Calibration - Detailed Report

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

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	10.9	16.3	02	23.510	25.3	7.5	03	70.500	67.7	-3.9
04	94.000	90.7	-3.5	05	117.540	113	-3.9	06	141.050	135	-4.5
07	164.560	158	-4.2	08	188.060	181	-3.8				

Dichlorprop

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.440	12.3	**30.4**	02	23.590	27.1	14.9	03	70.800	67.8	-4.3
04	94.400	89.1	-5.6	05	117.960	109	-7.3	06	141.550	129	-8.7
07	165.140	150	-9.4	08	188.730	170	-10.1				

Dinoseb

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.450	11.6	22.7	02	23.620	26.2	10.8	03	70.900	67.9	-4.2
04	94.500	89.9	-4.8	05	118.100	112	-5.4	06	141.720	133	-6.0
07	165.340	155	-6.5	08	188.960	177	-6.5				

MCPA

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	934.770	750	-19.7	02	2336.600	2720	16.4	03	7010.000	7350	4.9
04	9346.000	9600	2.7	05	11683.010	11800	1.1	06	14019.610	13900	-0.8
07	16356.210	16000	-2.0	08	18692.820	18200	-2.6				

MCPP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	938.770	689	-26.6	02	2346.620	2840	21.2	03	7040.000	7570	7.5
04	9386.000	9780	4.2	05	11733.100	11900	1.6	06	14079.720	13900	-1.3
07	16426.340	16000	-2.8	08	18772.960	18100	-3.8				

2,4-Dichlorophenylacetic Acid

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.020	11.9	**32.1**	02	22.550	26.4	16.9	03	67.600	64.6	-4.5
04	90.200	84.3	-6.5	05	112.730	104	-8.0	06	135.280	122	-9.7
07	157.830	142	-9.8	08	180.370	161	-10.5				

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210003.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:22 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:46:26 2020
Quant Results File: 102120_8151.RES

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

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	8.009	7.829	7280	43923	0.400	1.038	#
		Target Compounds							
1)	m	Dalapon	3.136	2.865	9965	74917	0.411	1.551	#
3)	m	Dicamba	8.209	7.905	29172	27129	0.418	0.183	#
4)	m	MCPP	0.000	8.082	0	2122	N.D.	N.D.	
5)	m	MCPA	8.552	8.362	2704	44075	46.181	N.D.	#
6)	m	Dichloroprop	8.939	8.758	23826	6916	1.278	0.166	#
7)	m	2,4-D	9.349	0.000	6880	0	0.324	N.D.	d#
8)	m	2,4,5-TP ...	10.259	10.129	9196	34595	0.098	0.170	#
9)	m	2,4,5-T	10.709	10.539	13577	43959	0.165	0.230	#
10)	m	2,4-DB	0.000	11.139	0	3230	N.D. d	0.111	
11)	m	Dinoseb	11.682	11.315	11024	25541	0.178	0.187	

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

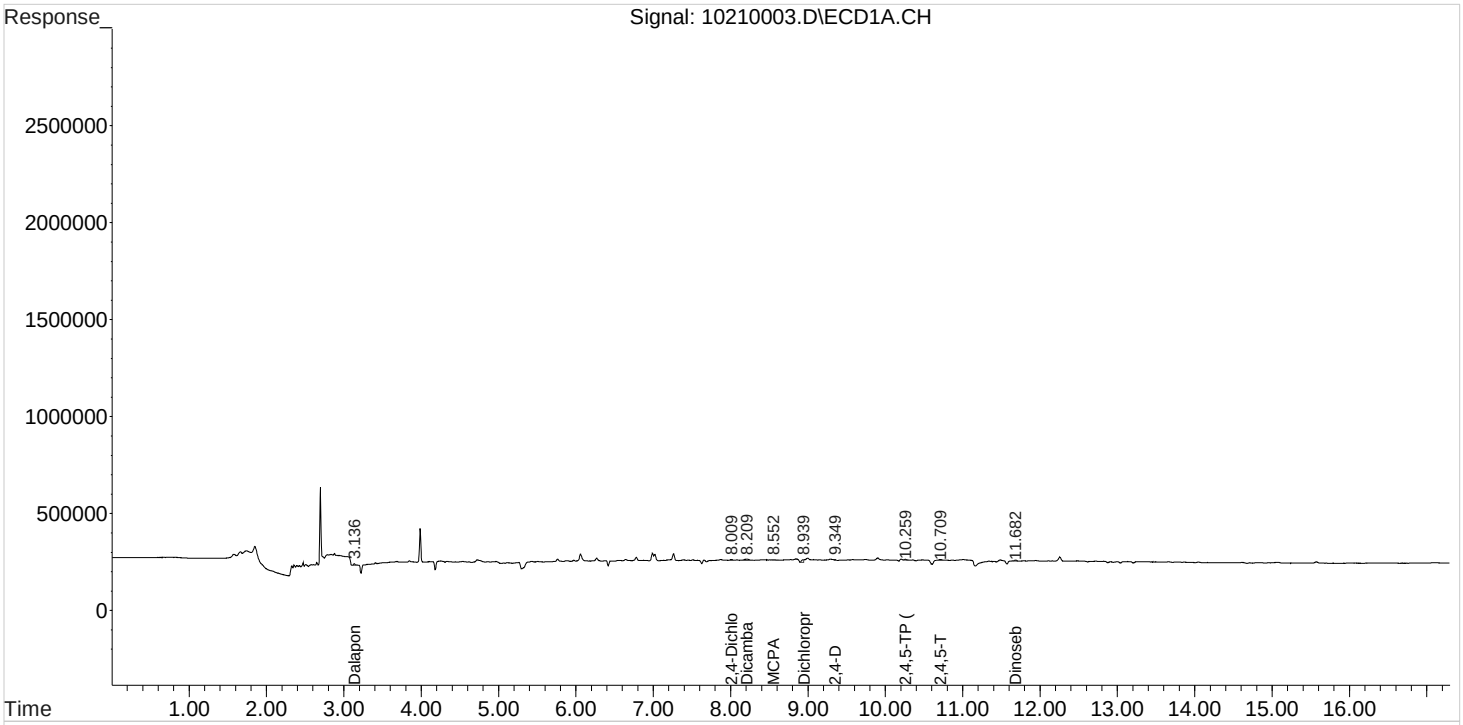
Quantitation Report (QT Reviewed)

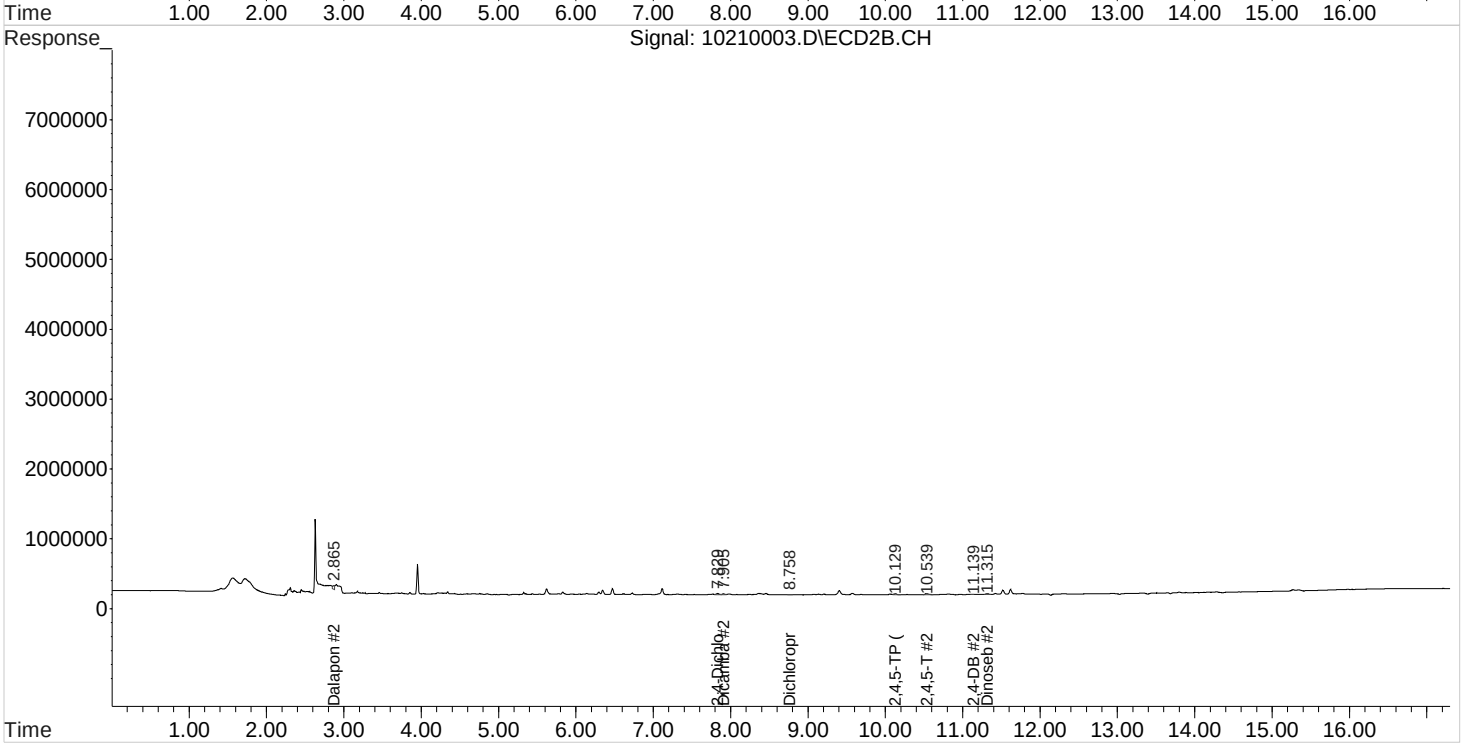
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210003.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:22 pm Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:46:26 2020
Quant Results File: 102120_8151.RES

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

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





Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:30:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
		System Monitoring Compounds							
2)	s	2,4-Dichl...	7.997	7.820	190814	503954	10.736	12.487	
		Target Compounds							
1)	m	Dalapon	3.127	2.873	243340	465074	10.178	9.705	
3)	m	Dicamba	8.217	7.920	714045	1620262	10.361m	11.193	
4)	m	MCPP	8.300	8.106	18782	304912	432.162	1713.825	#
5)	m	MCPA	8.567	8.353	42691	497459	706.888	2049.337	#
6)	m	Dichloroprop	8.967	8.753	214760	513503	11.890	12.869	
7)	m	2,4-D	9.330	9.066	233900	657519	11.289	13.552	
8)	m	2,4,5-TP ...	10.263	10.130	927413	2242551	9.958m	11.308	
9)	m	2,4,5-T	10.710	10.536	823973	2124220	10.063	11.378	
10)	m	2,4-DB	11.290	11.173	105152	338252	10.371m	12.055	
11)	m	Dinoseb	11.683	11.316	655169	1585317	10.776m	11.980	

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

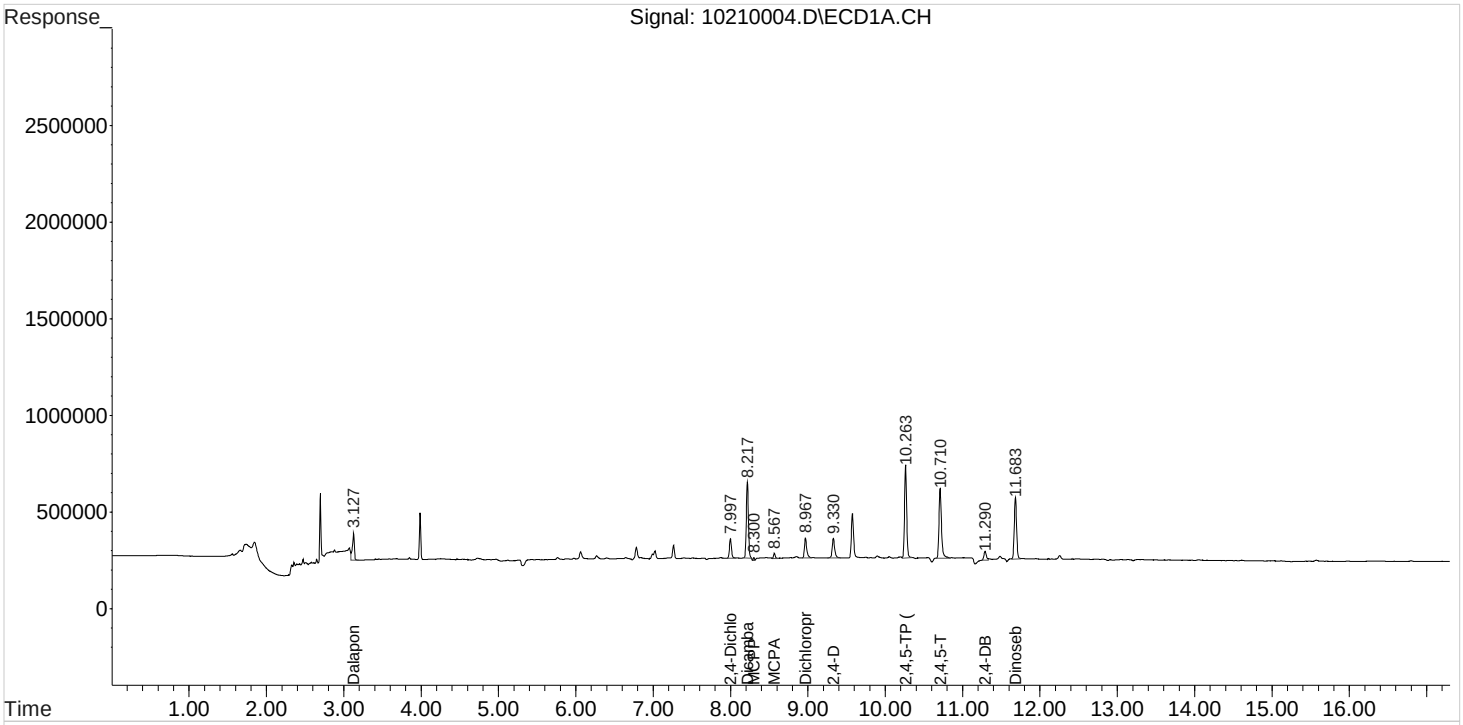
Quantitation Report (QT Reviewed)

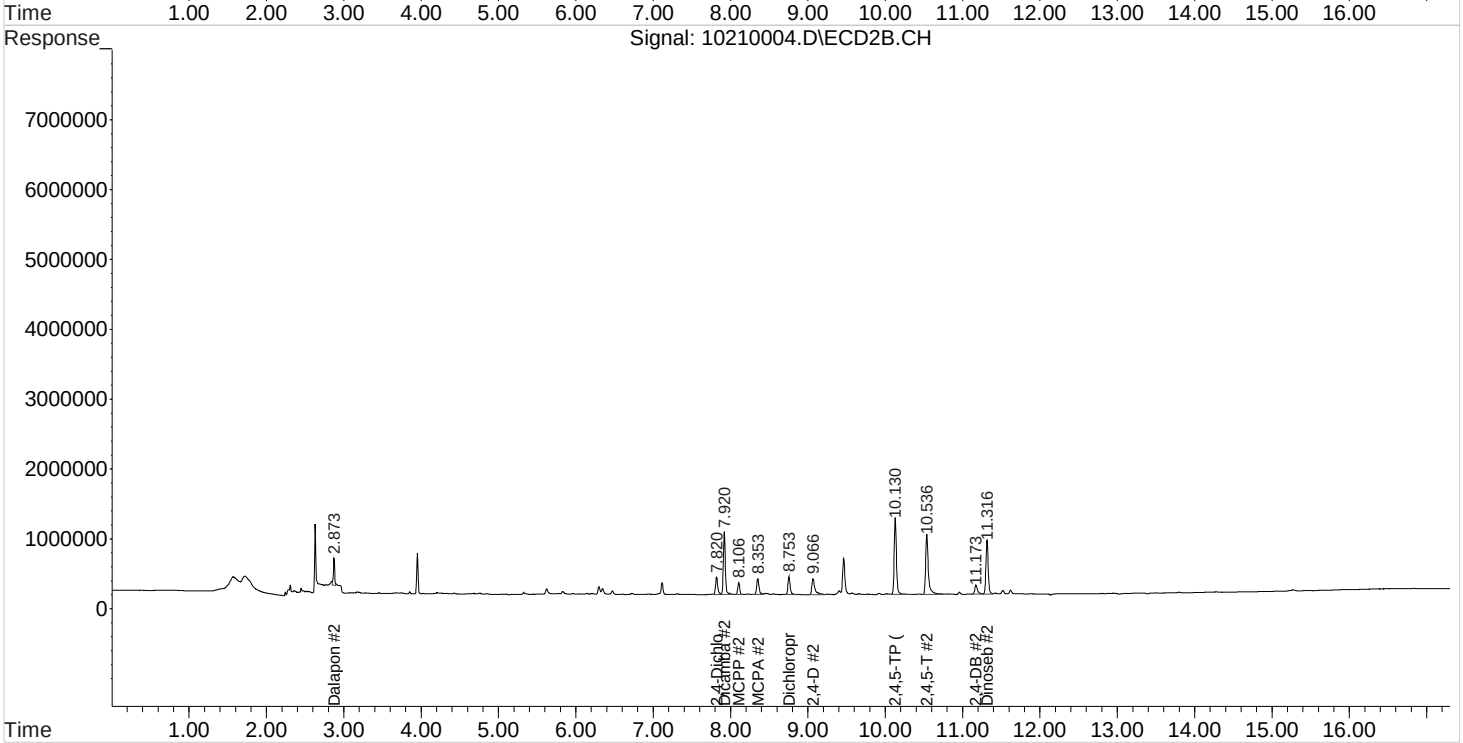
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:30:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





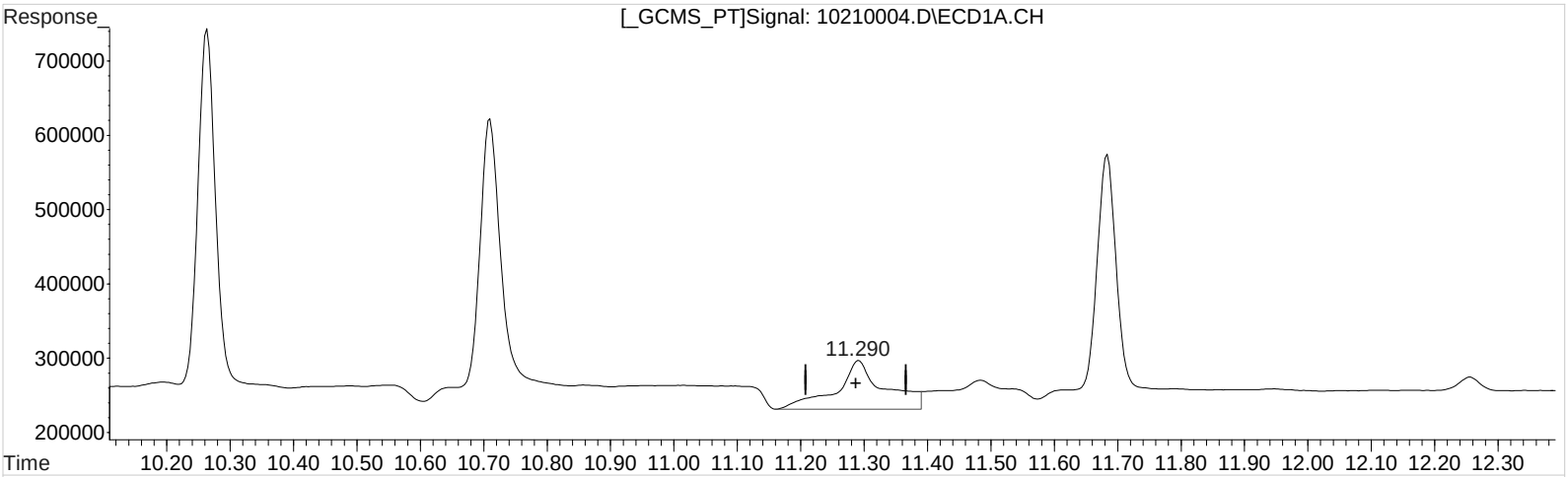
Quantitation Report (Qedit)

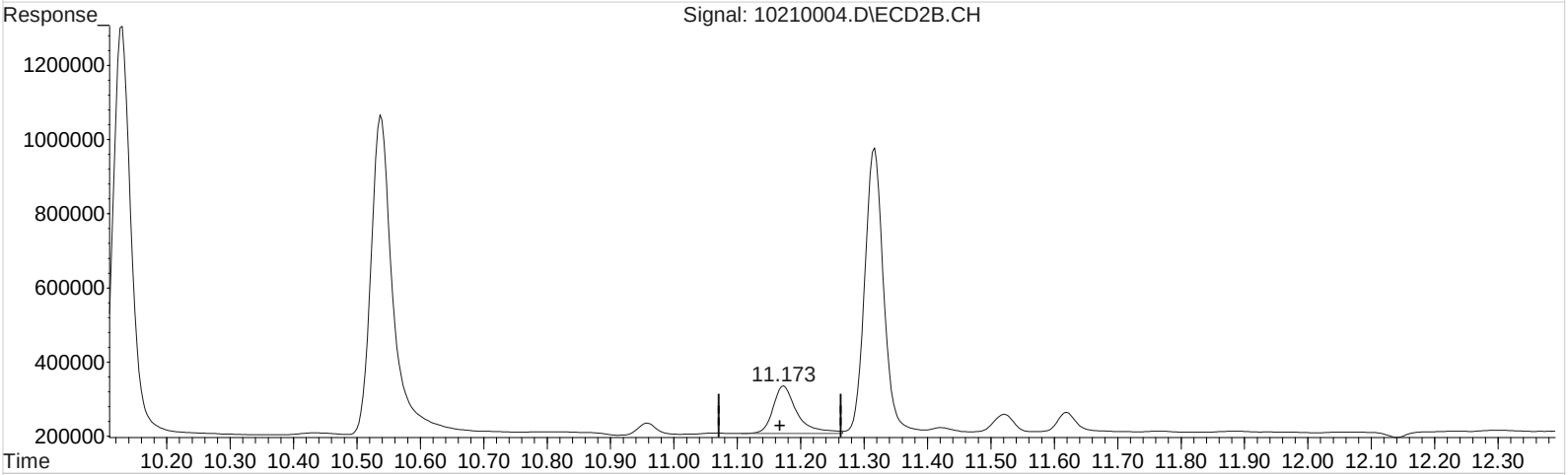
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(10) 2,4-DB (m)

11.290min 34.659 ppb

response 351402

Manual Integration:

Before

10/21/20

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

11.173min 12.055 ppb

response 338252

(+) = Expected Retention Time

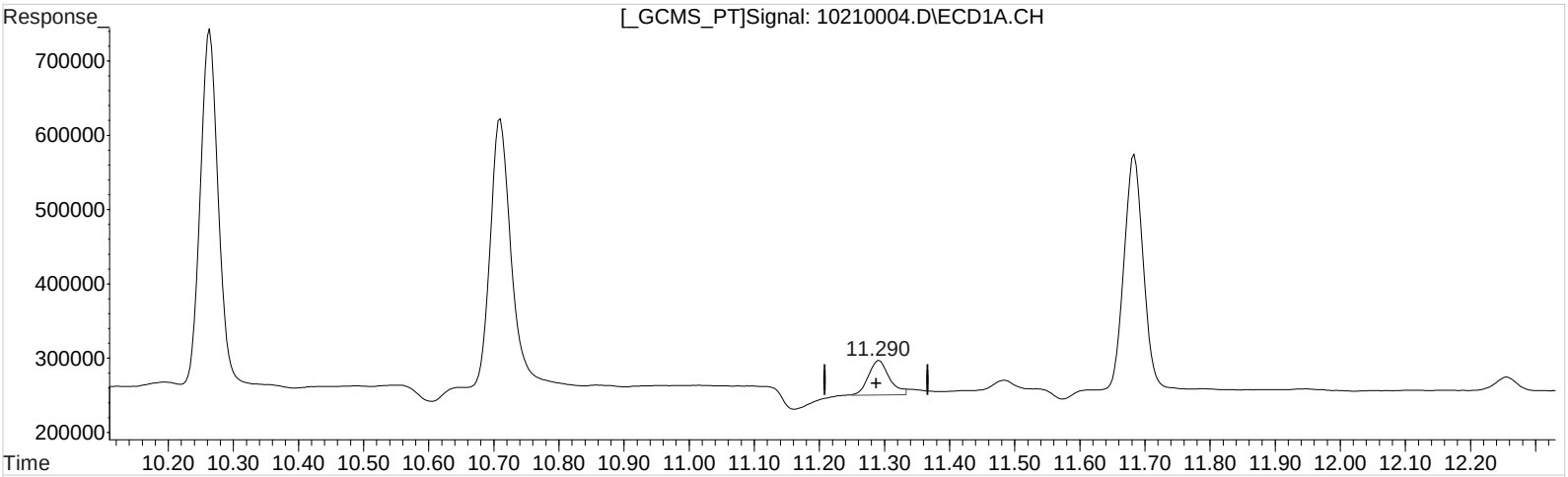
Quantitation Report (Qedit)

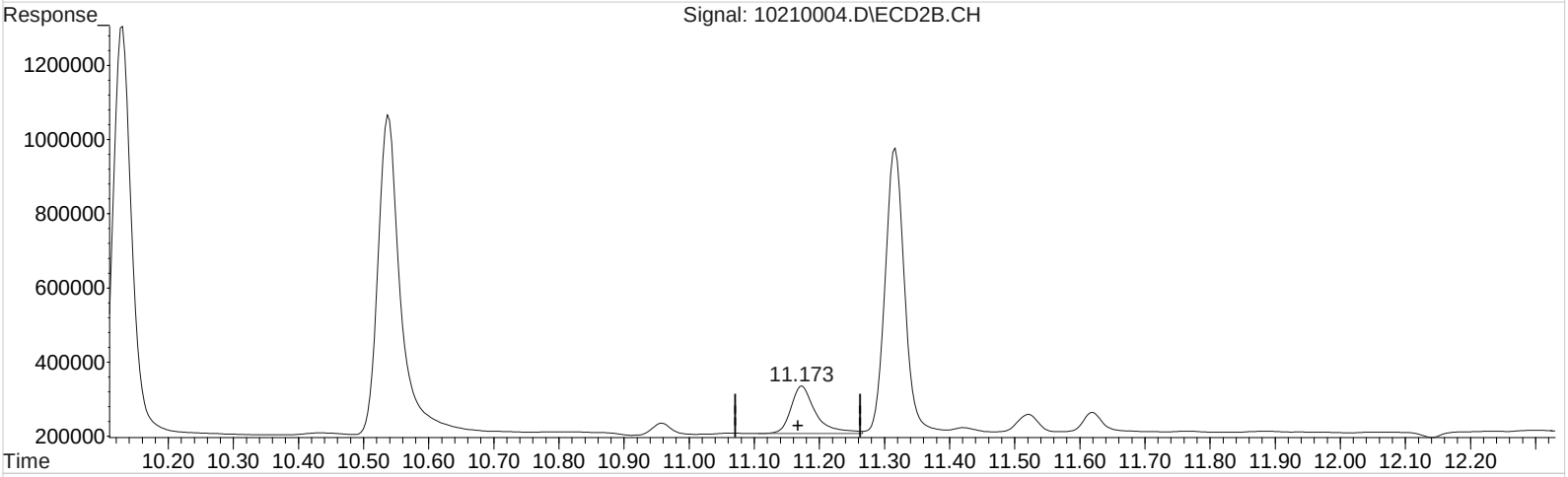
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(10) 2,4-DB (m)

11.290min 10.371 ppb m

response 105152

Manual Integration:

After

Baseline/Shoulder

10/21/20

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

11.173min 12.055 ppb

response 338252

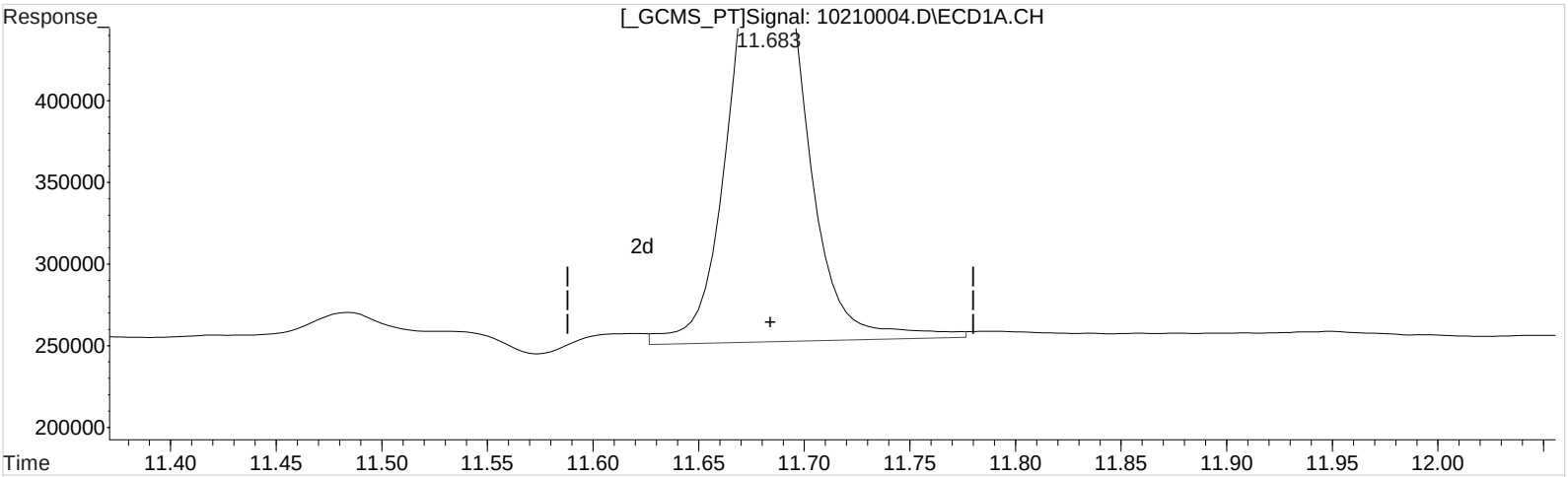
(+) = Expected Retention Time

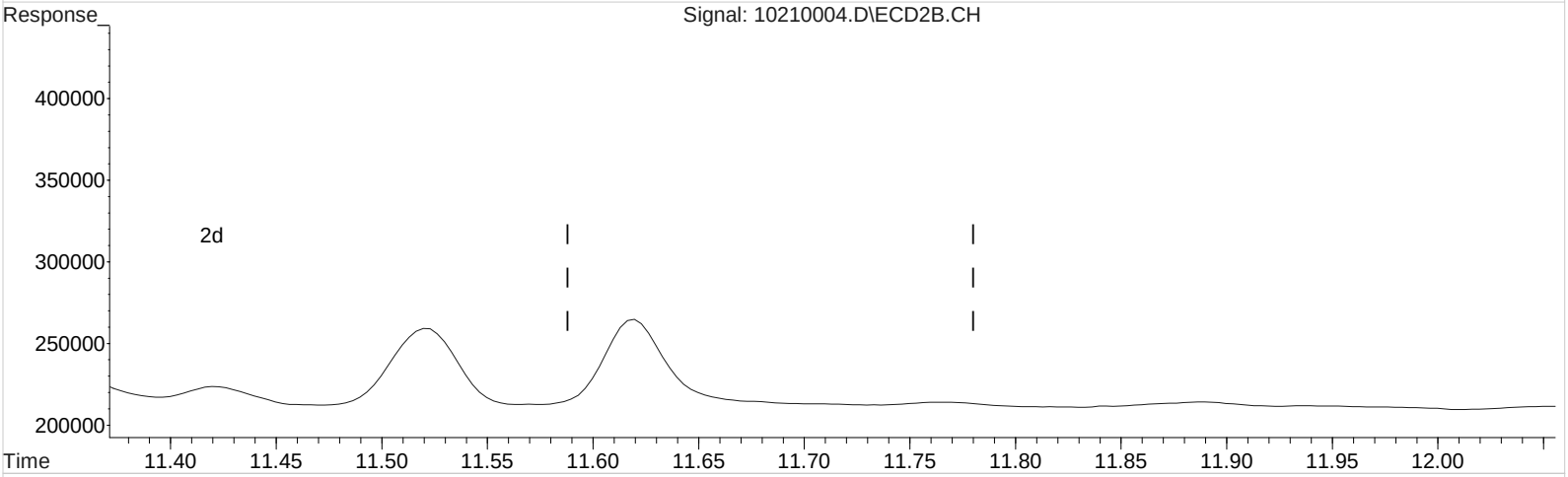
1st UA 10/21/20
2nd 10/22/20

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

(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

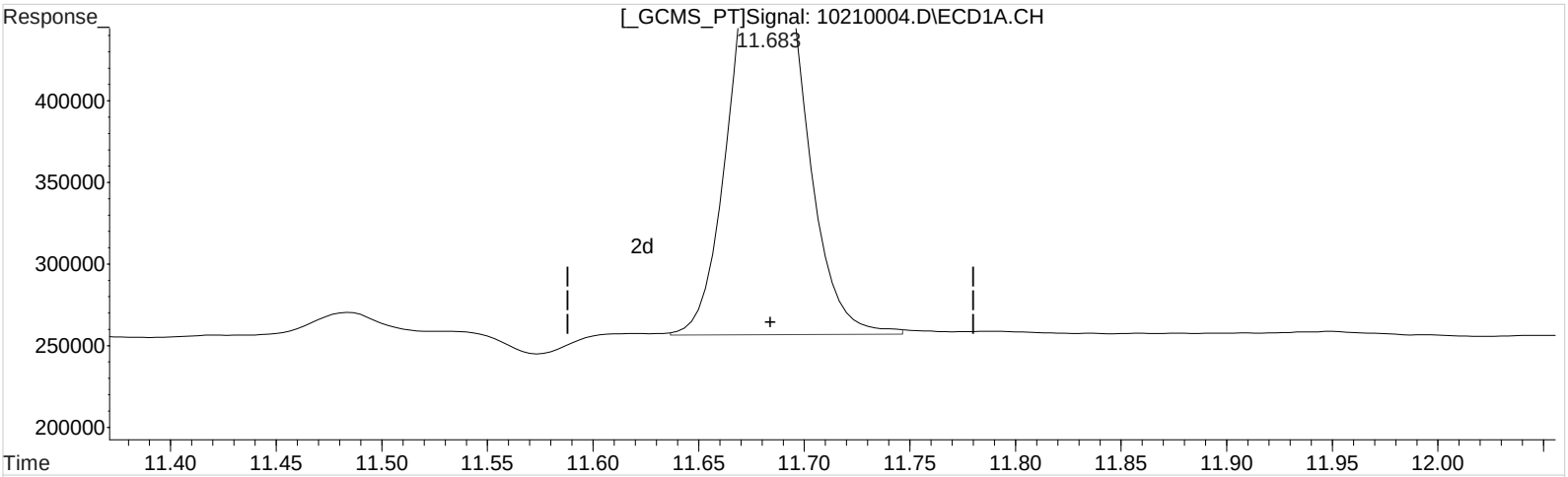
Quantitation Report (Qedit)

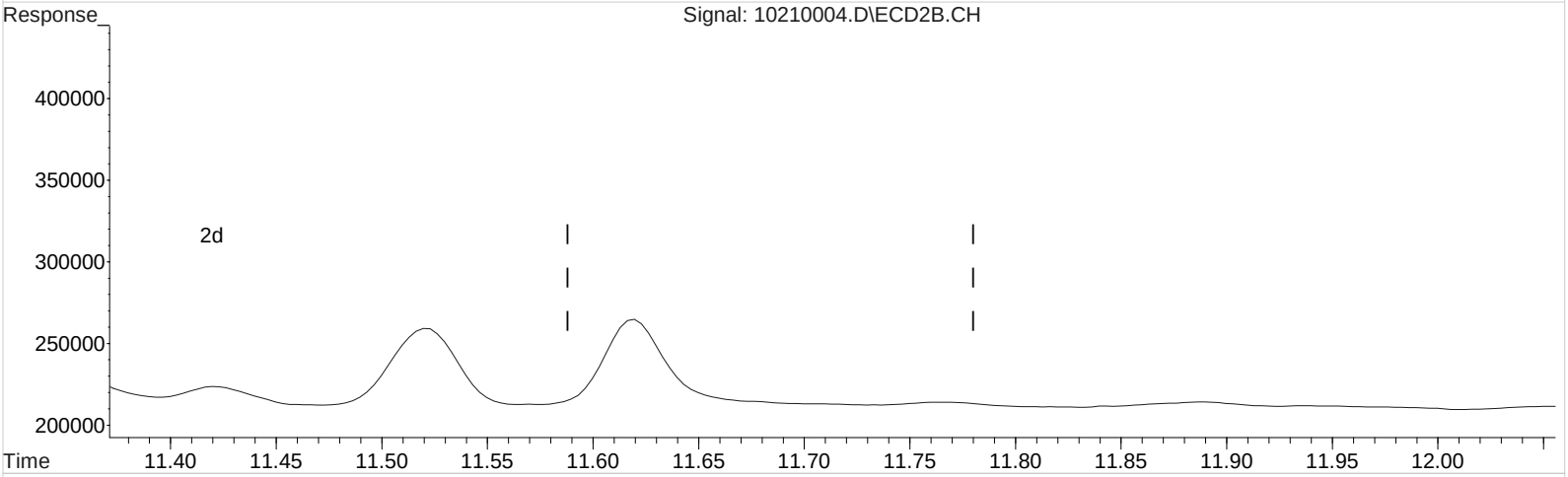
1st UA 10/21/20
2nd 10/22/20

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

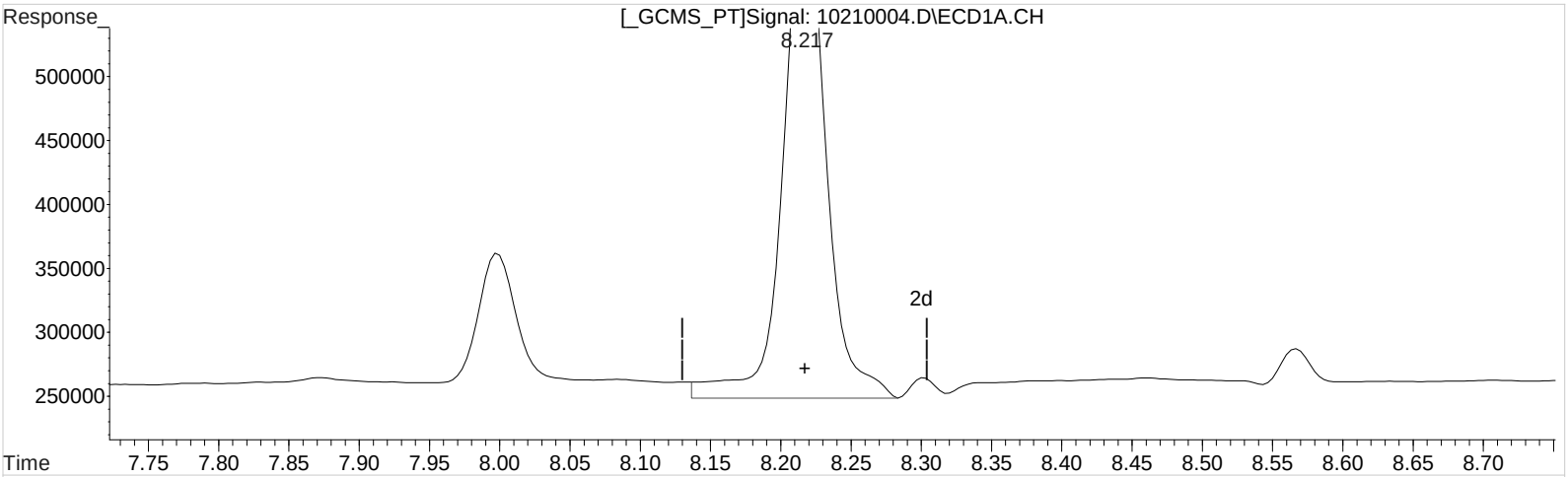
Quantitation Report (Qedit)

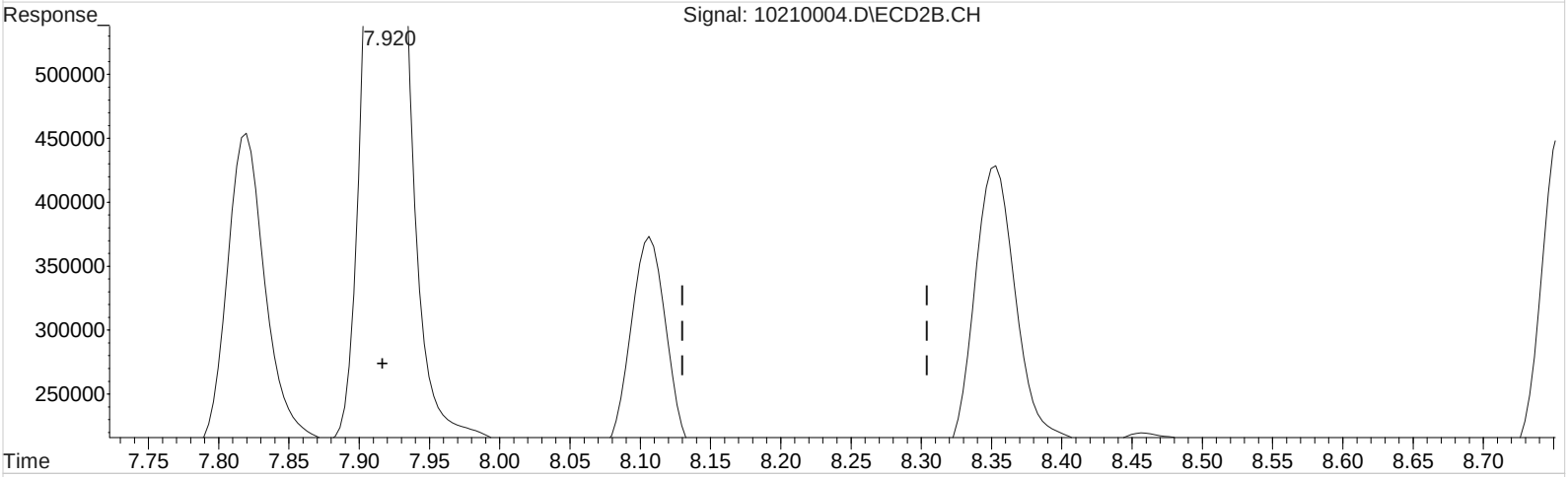
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(3) Dicamba (m)

8.217min 12.005 ppb

response 827399

Manual Integration:

Before

10/21/20

(3) Dicamba #2 (m)

7.920min 11.193 ppb

response 1620262

(+) = Expected Retention Time

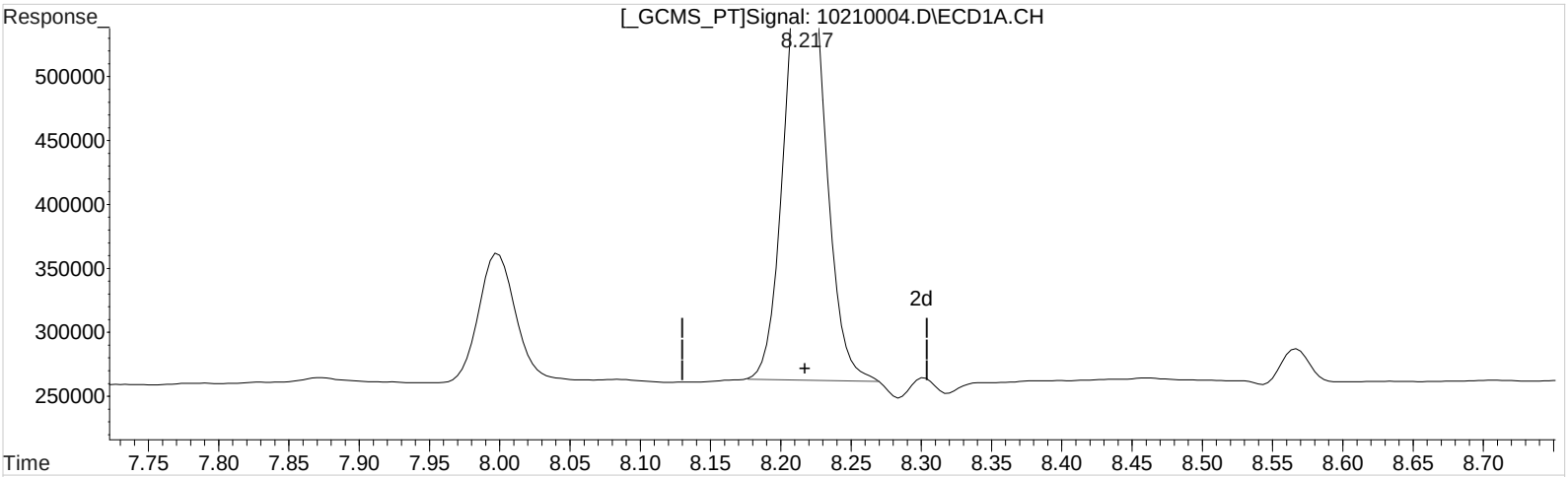
Quantitation Report (Qedit)

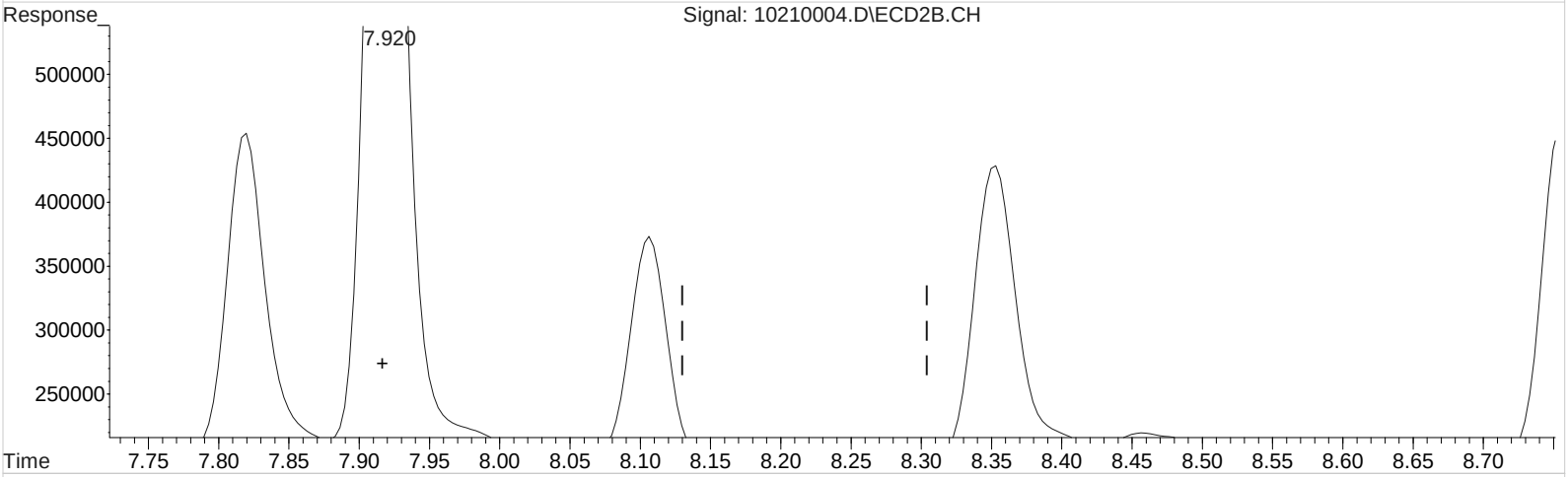
1st UA 10/21/20
2nd 10/22/20

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

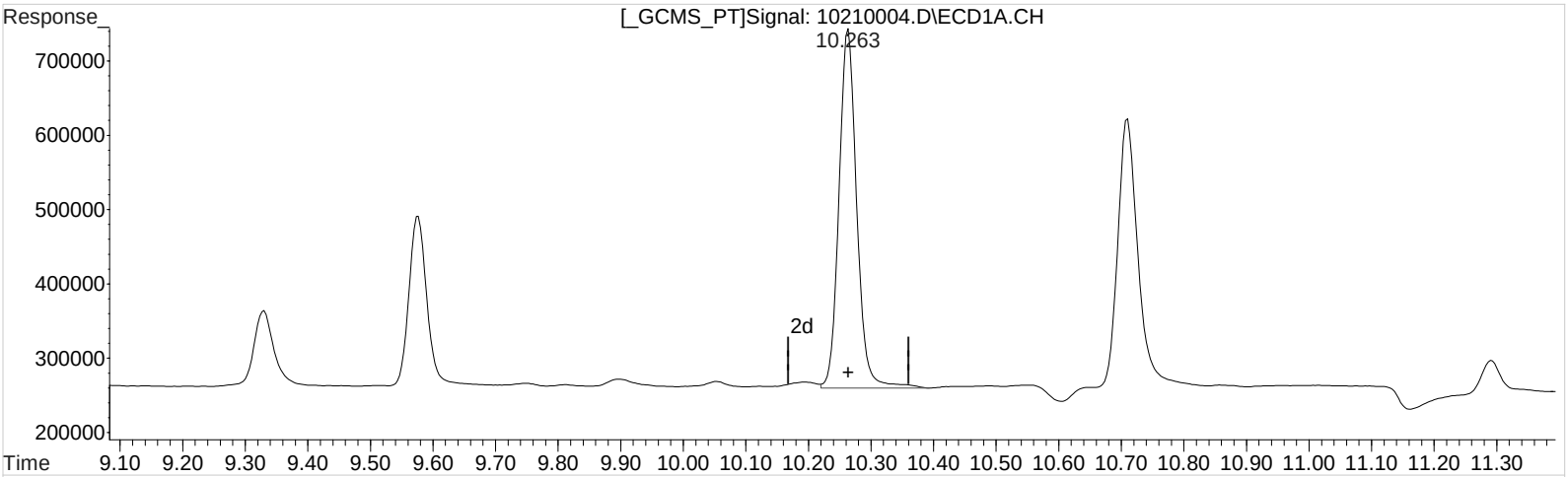
Quantitation Report (Qedit)

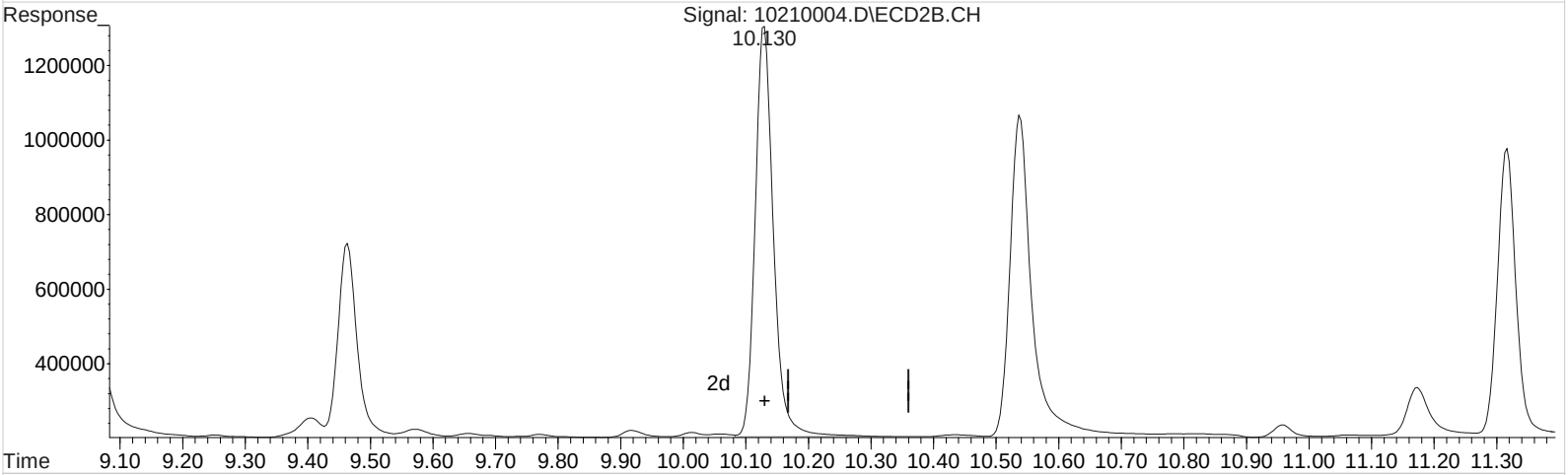
1st UA 10/21/20
2nd 10/22/20

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

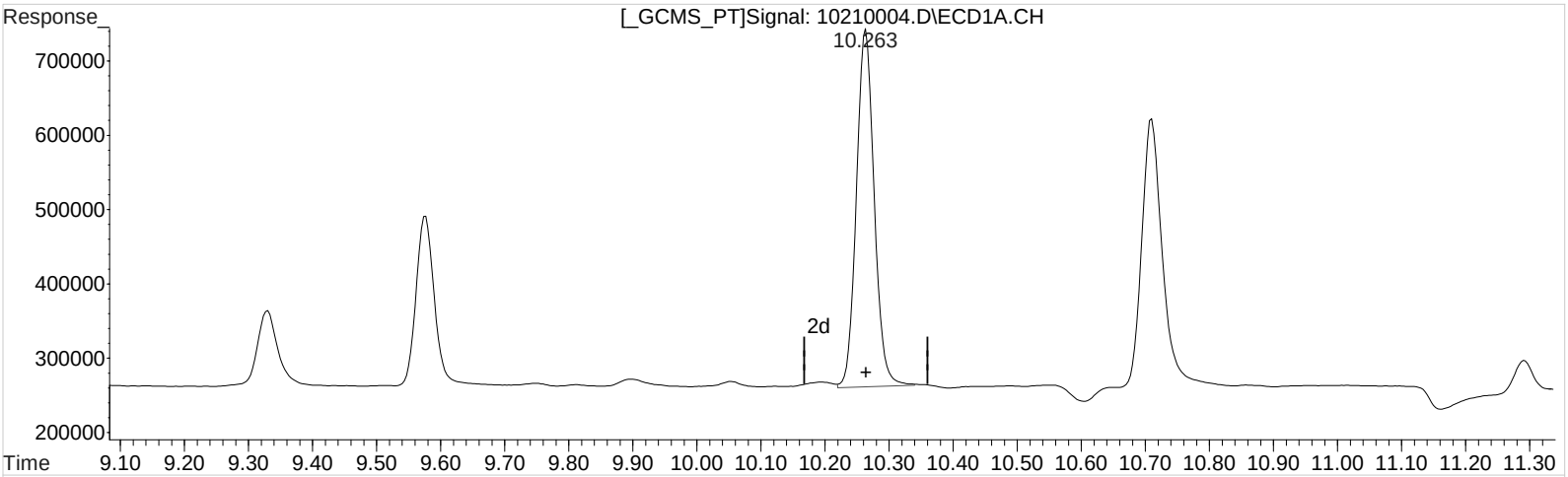
Quantitation Report (Qedit)

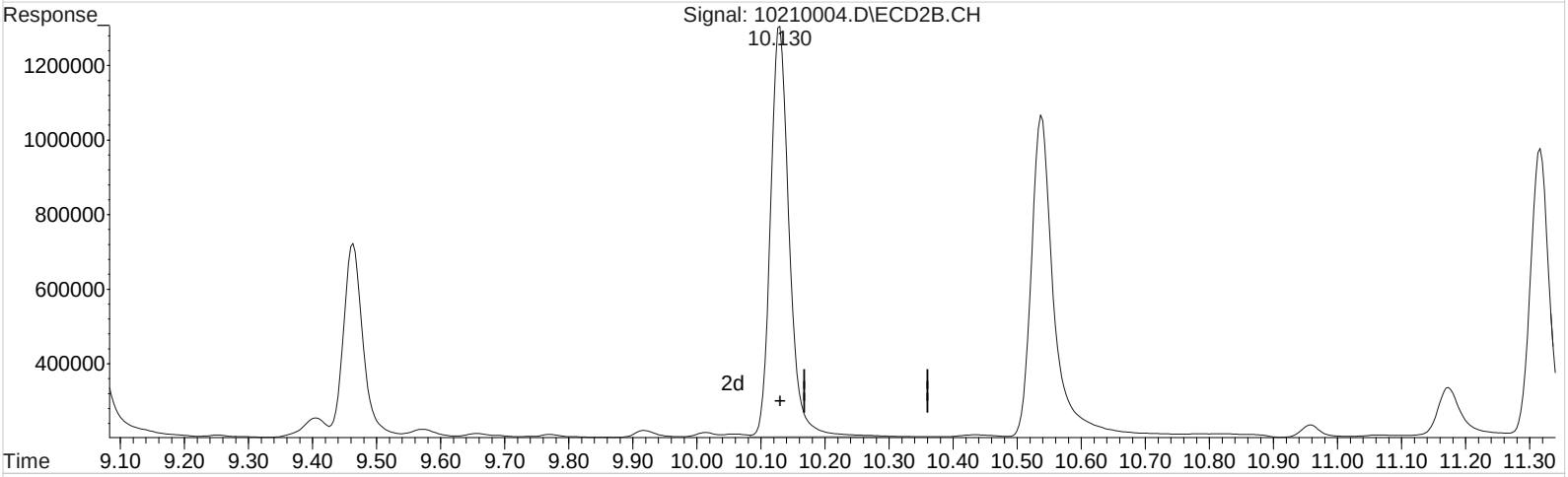
1st UA 10/21/20
2nd 10/22/20

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

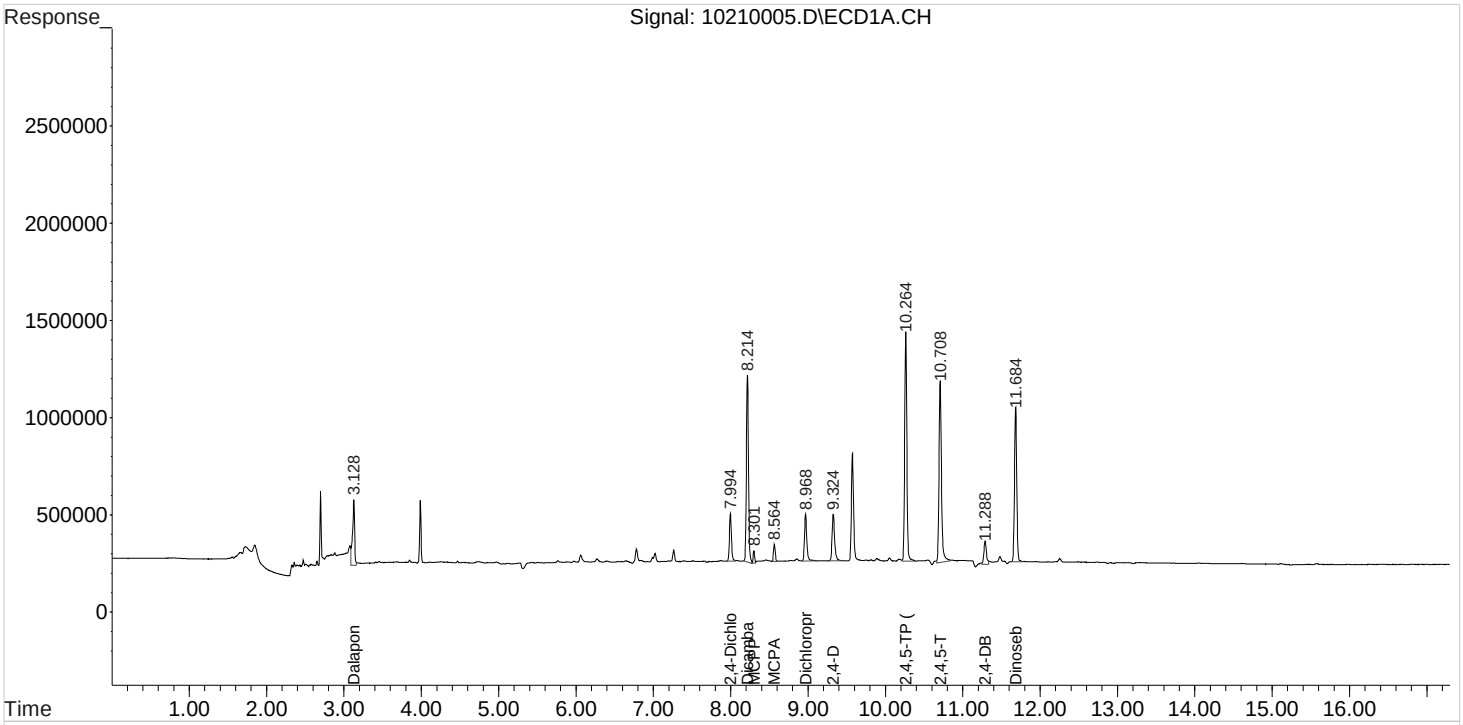
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

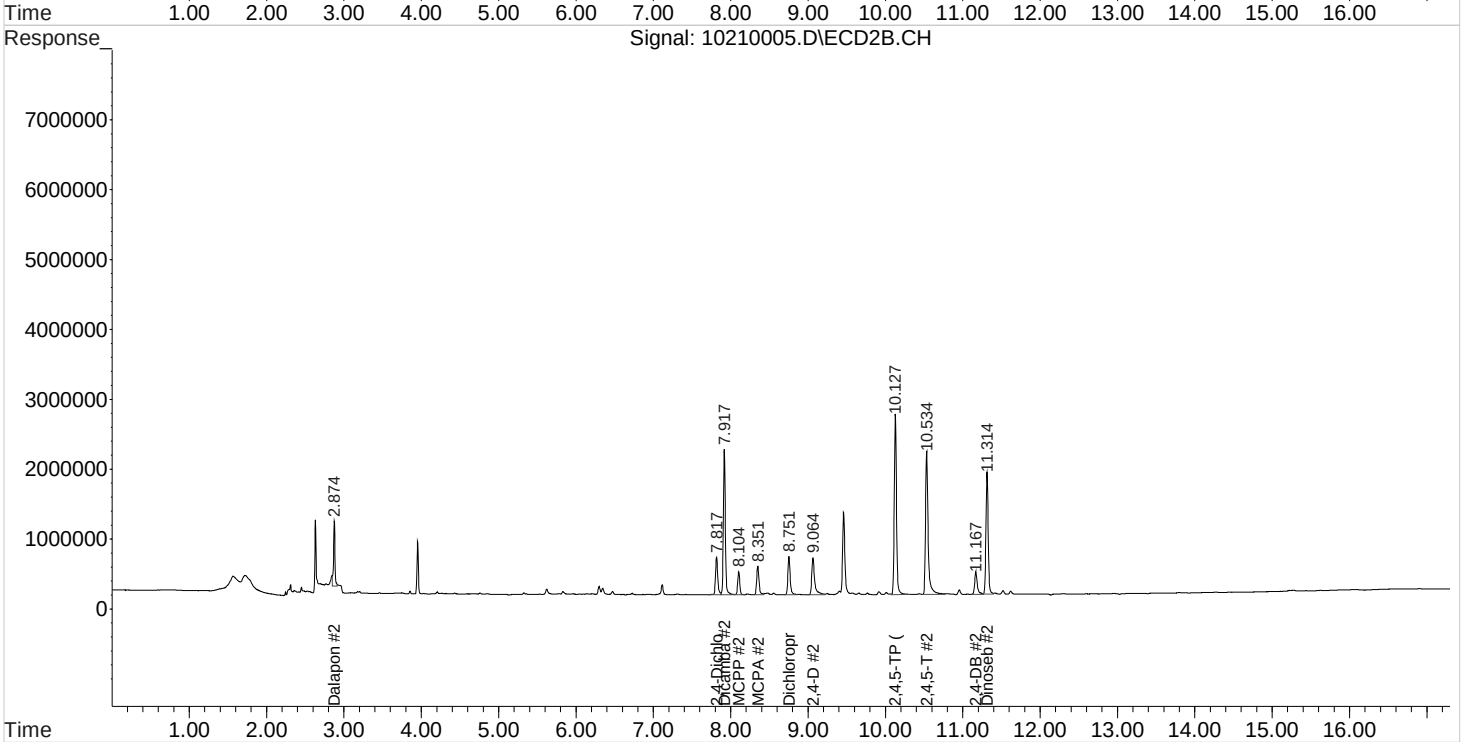
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:28:28 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





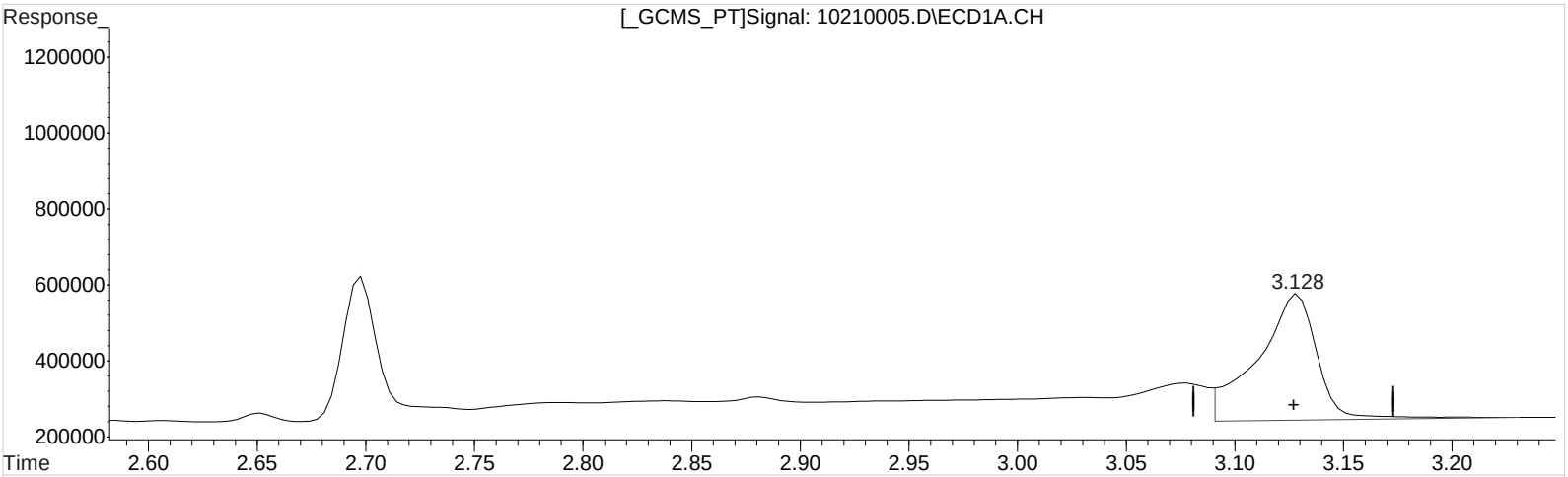
Quantitation Report (Qedit)

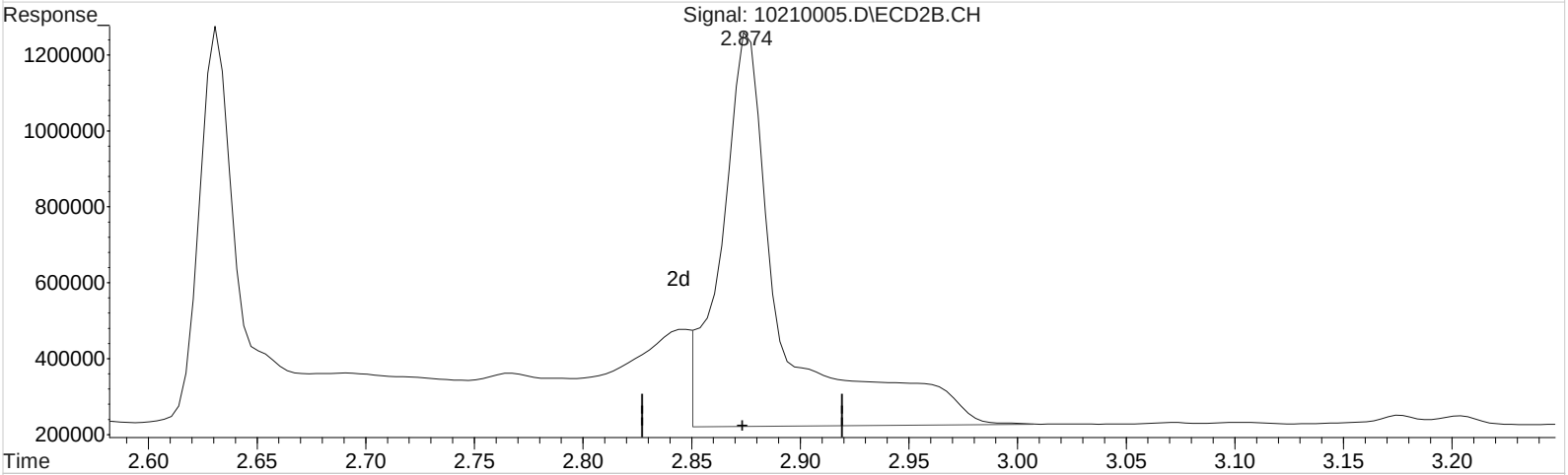
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(1) Dalapon (m)

3.128min 26.760 ppb

response 624496

(1) Dalapon #2 (m)

2.874min 42.153 ppb

response 1990871

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

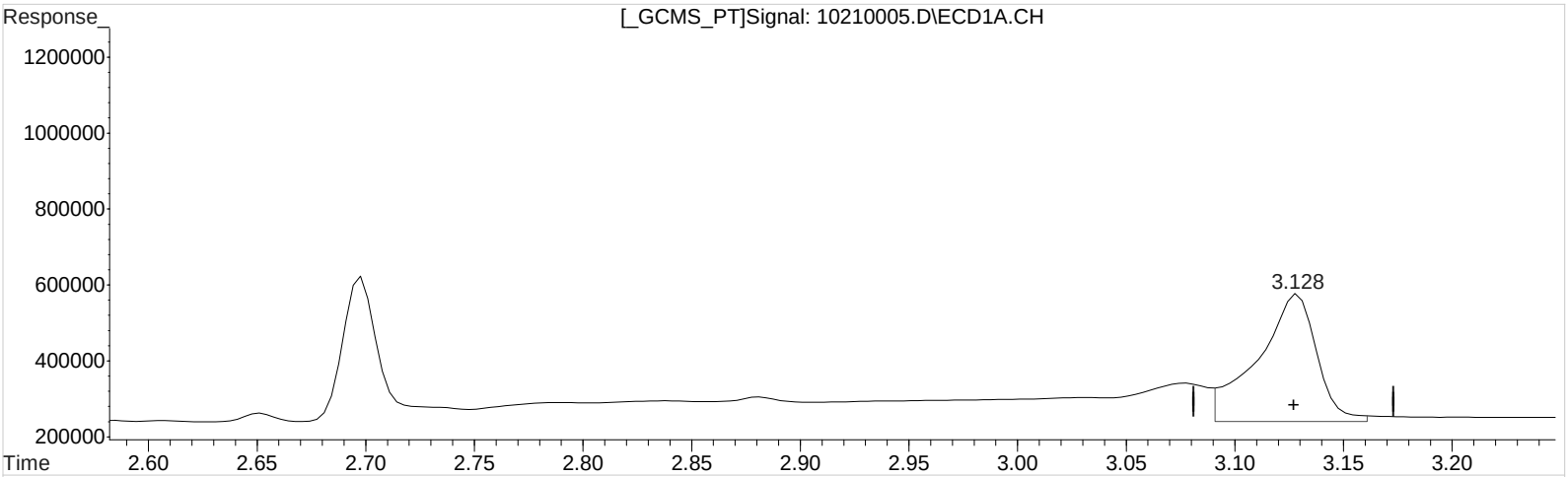
Quantitation Report (Qedit)

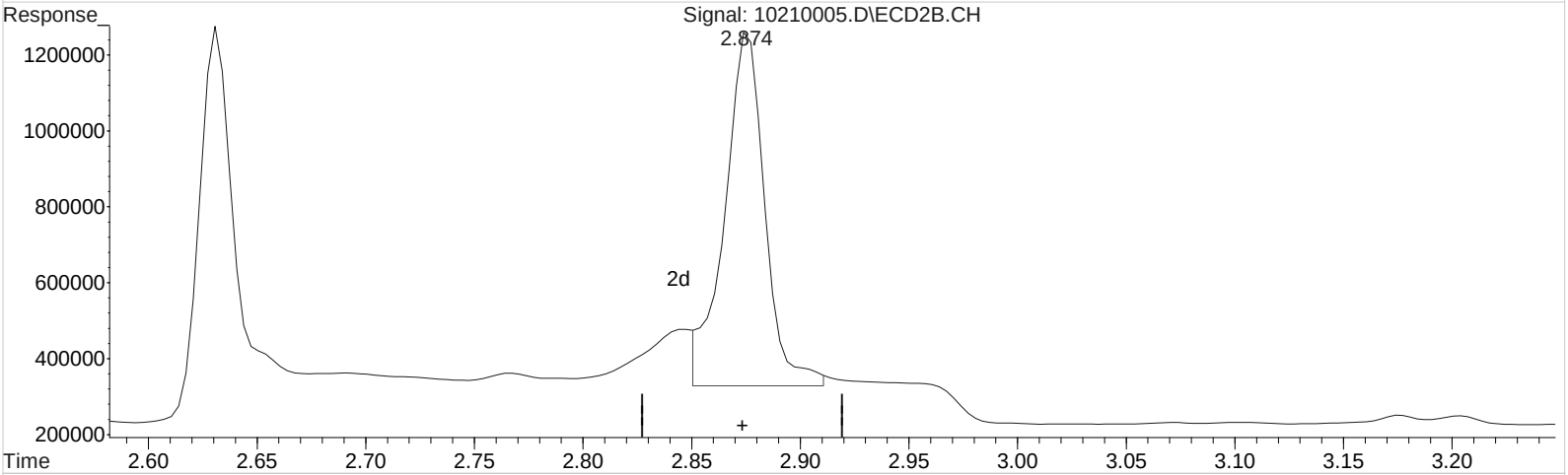
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(1) Dalapon (m)

3.128min 26.669 ppb m

response 622375

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.874min 25.104 ppb m

response 1185641

(+) = Expected Retention Time

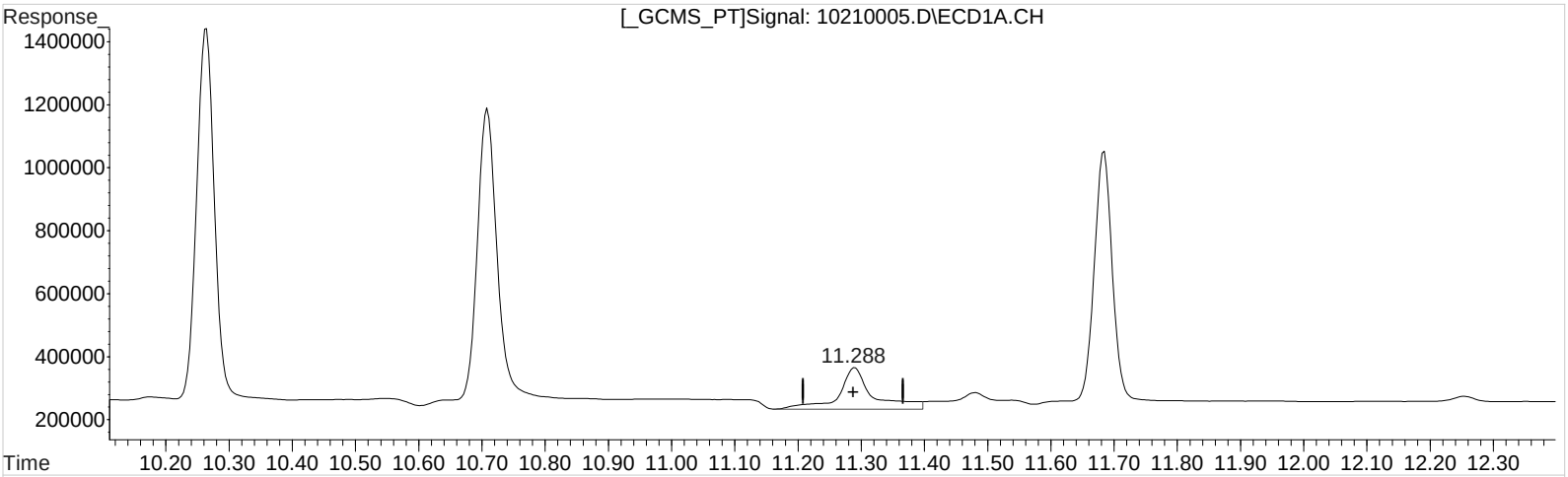
Quantitation Report (Qedit)

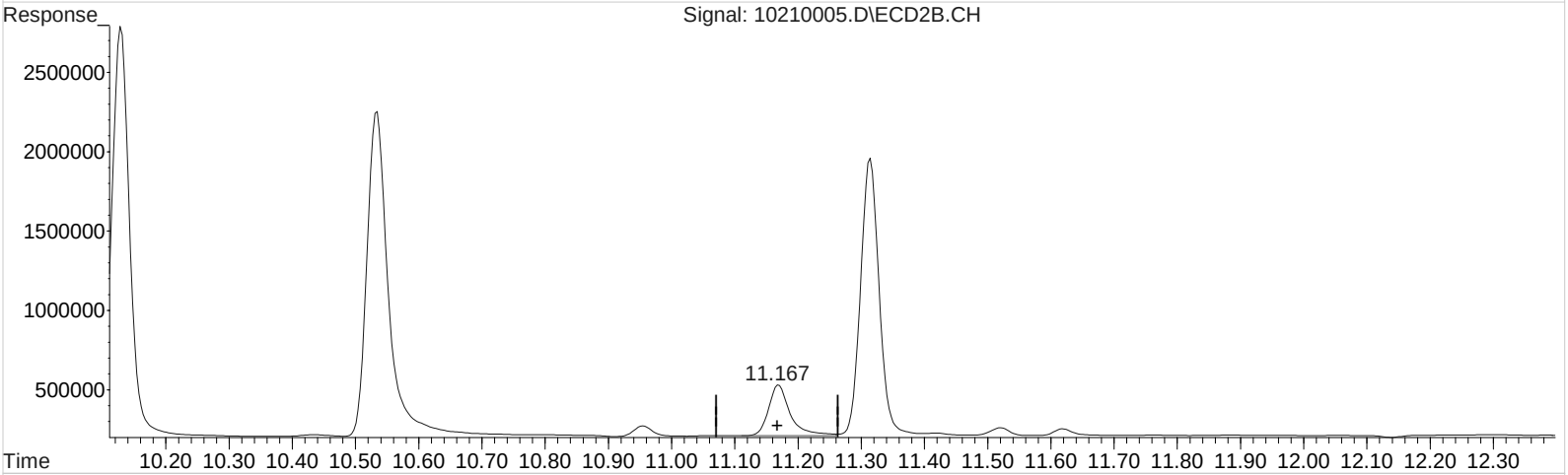
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(10) 2,4-DB (m)

11.288min 50.935 ppb

response 502979

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

11.167min 27.903 ppb

response 763407

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
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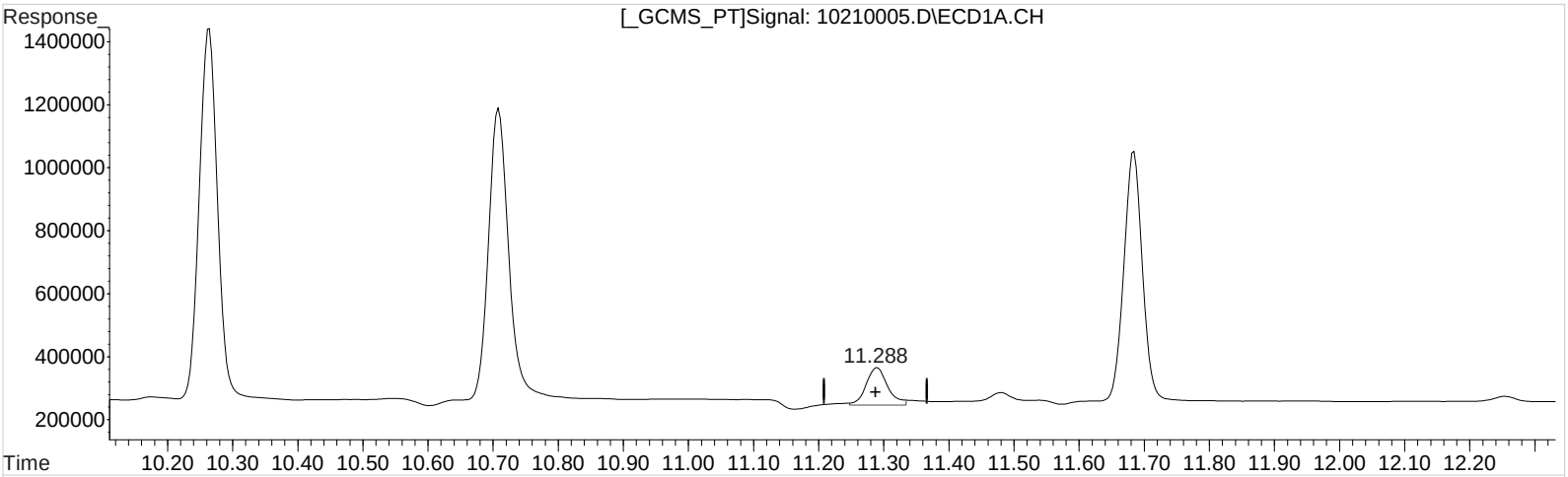
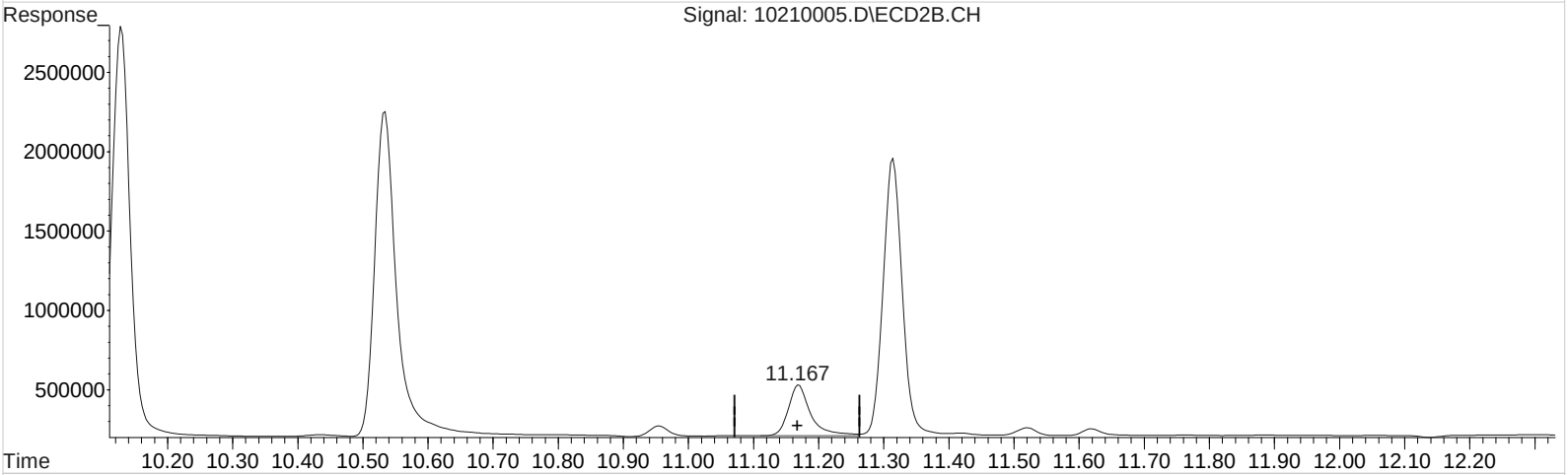
Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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
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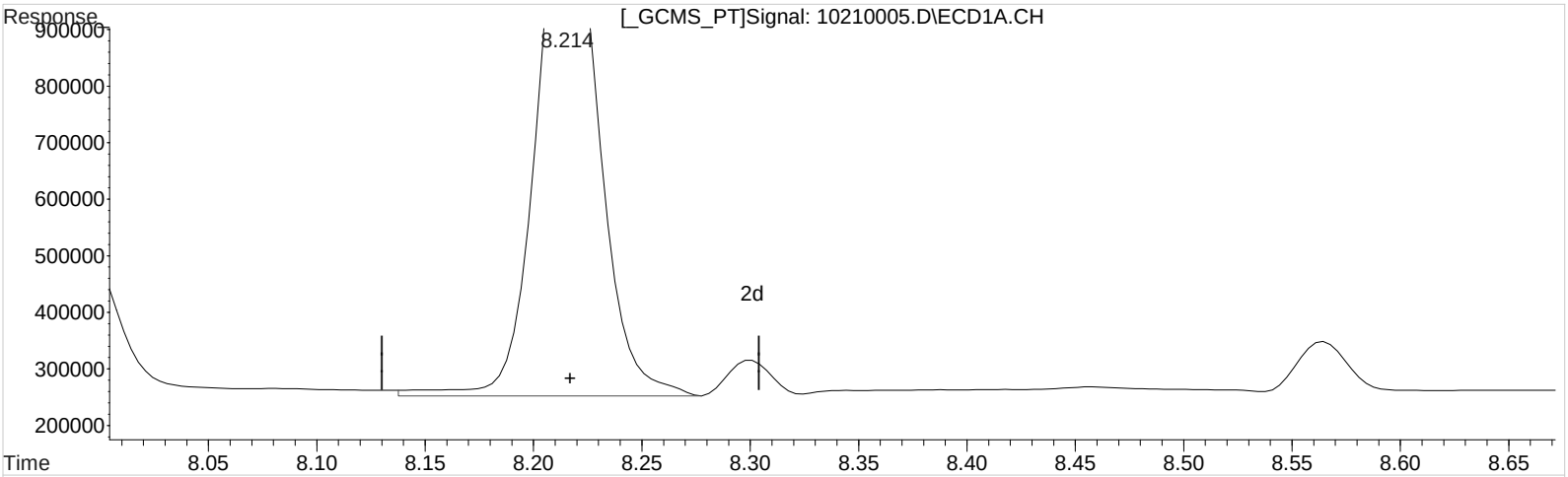
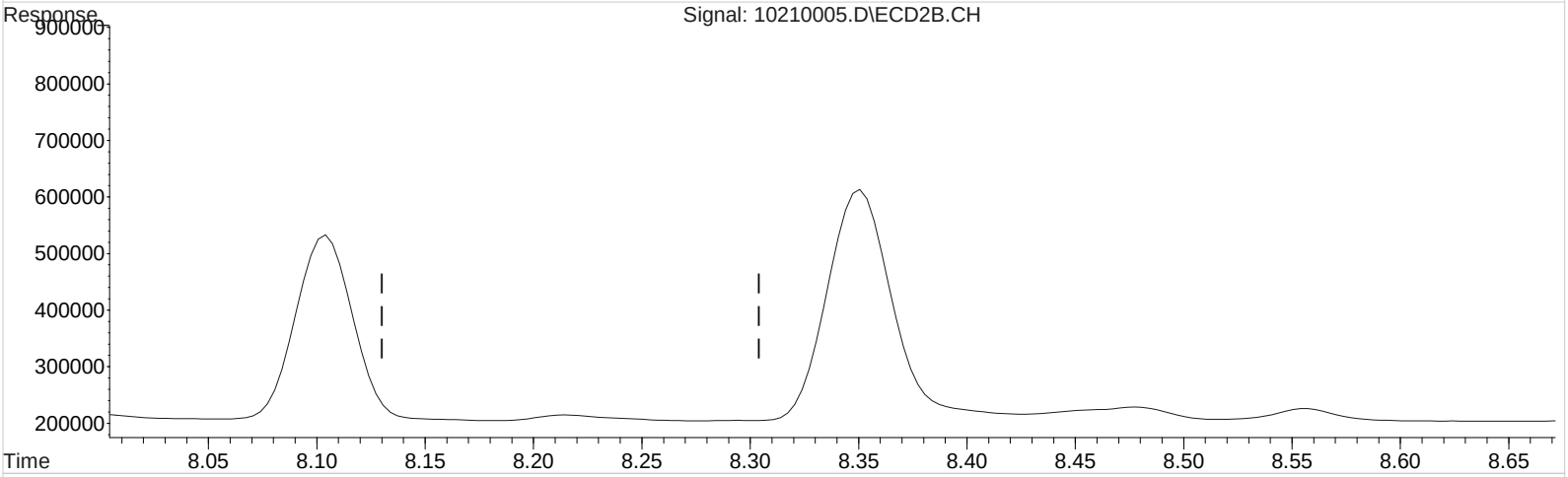
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

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

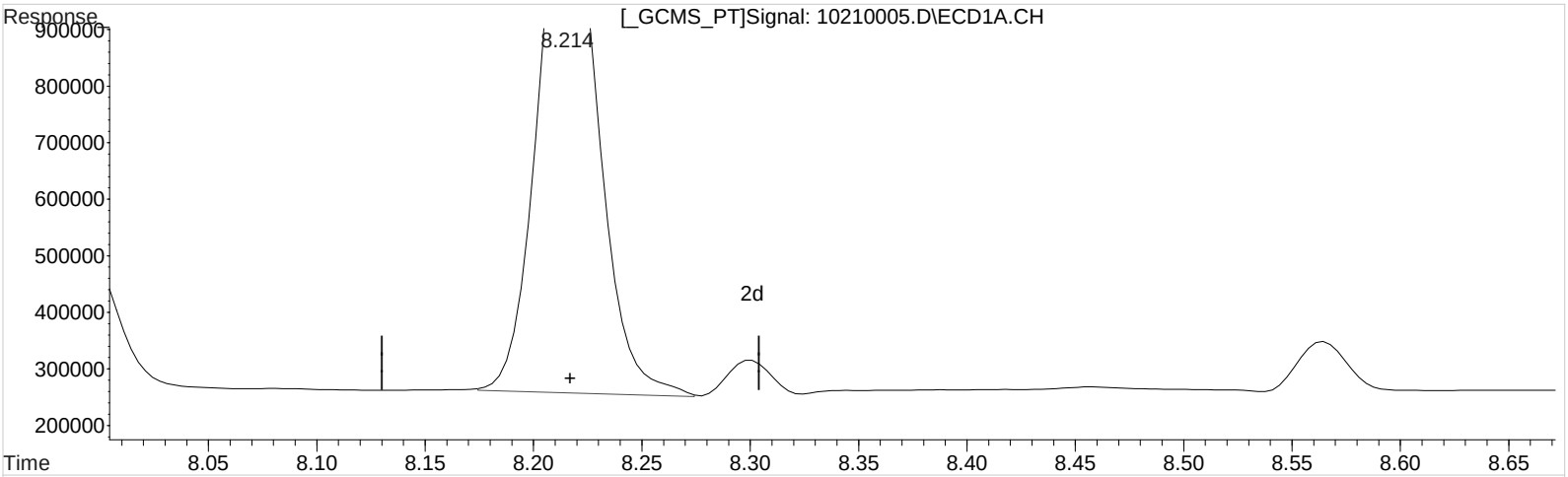
Quantitation Report (Qedit)

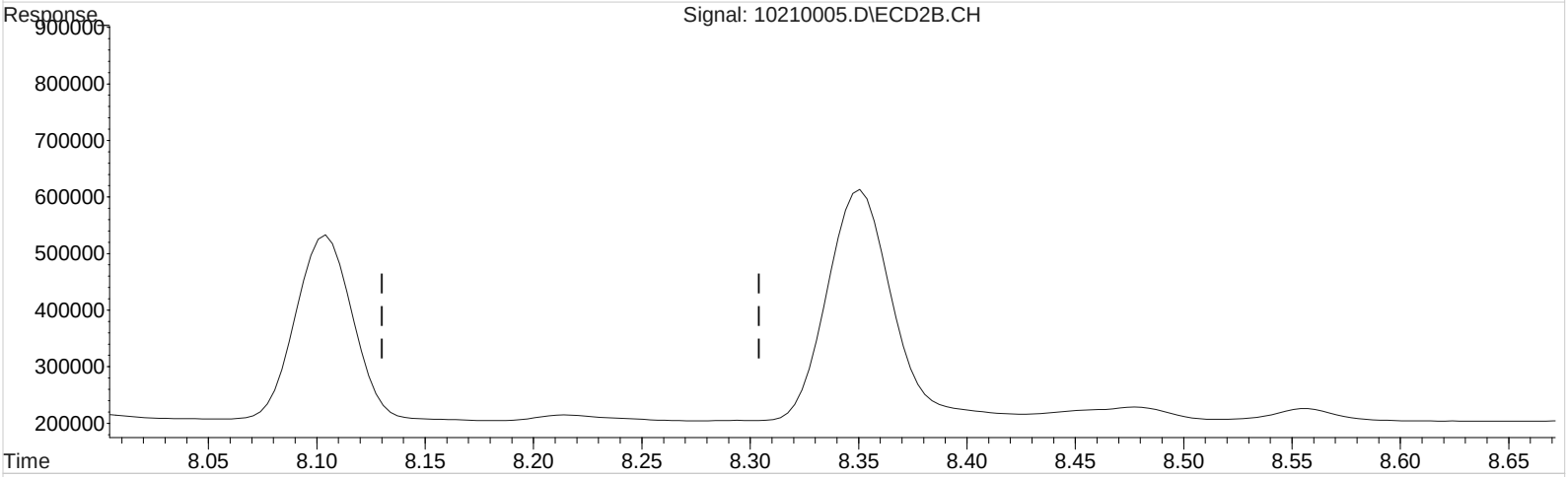
1st UA 10/21/20
2nd 10/22/20

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

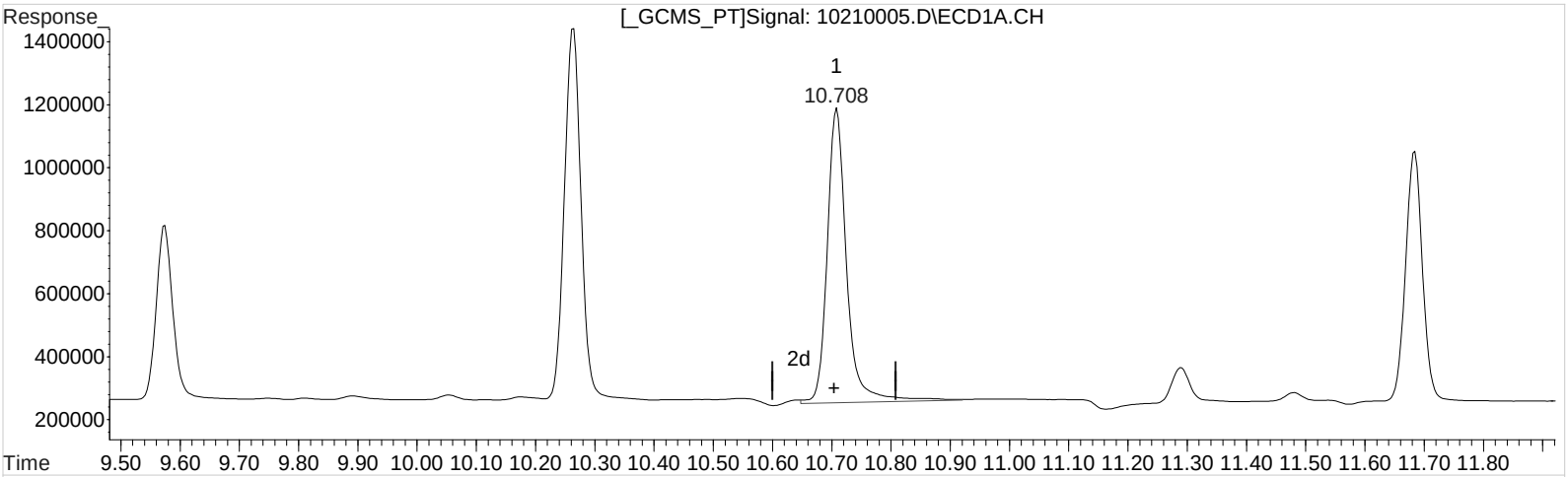
Quantitation Report (Qedit)

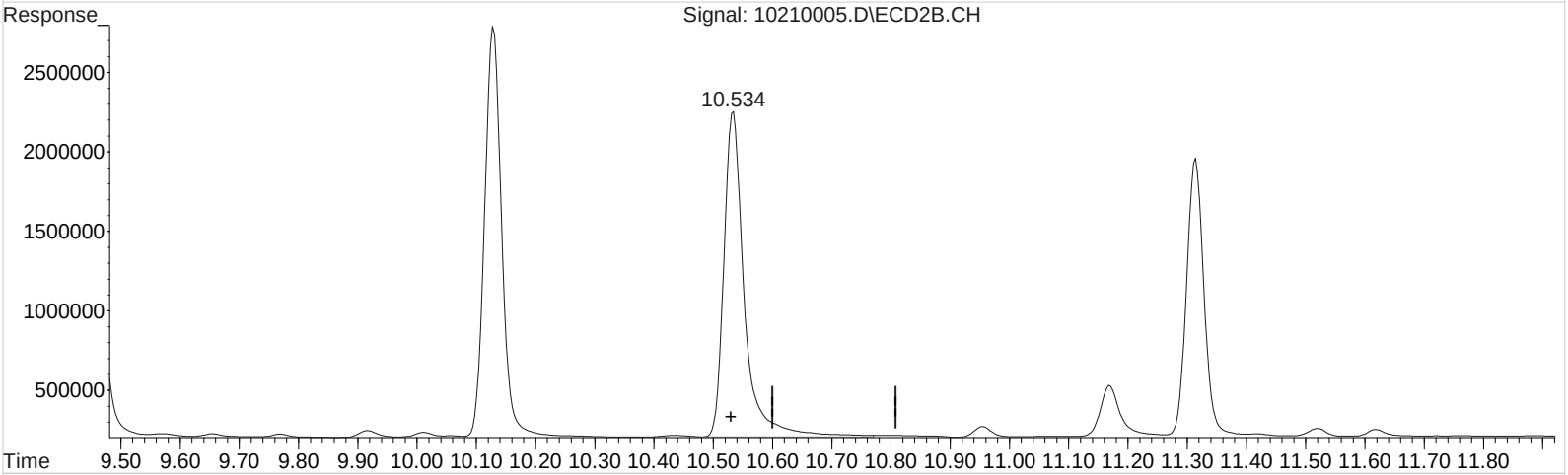
1st UA 10/21/20
2nd 10/22/20

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

Manual Integration:

Before

10/21/20

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

10.534min 26.821 ppb

response 4914810

(+) = Expected Retention Time

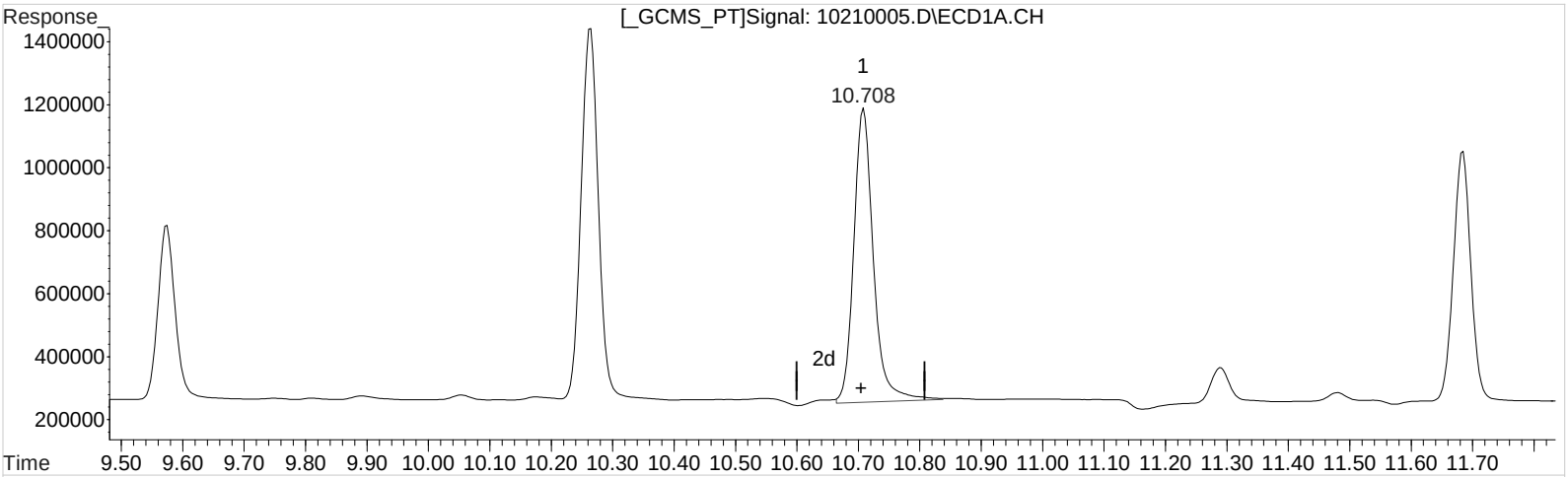
Quantitation Report (Qedit)

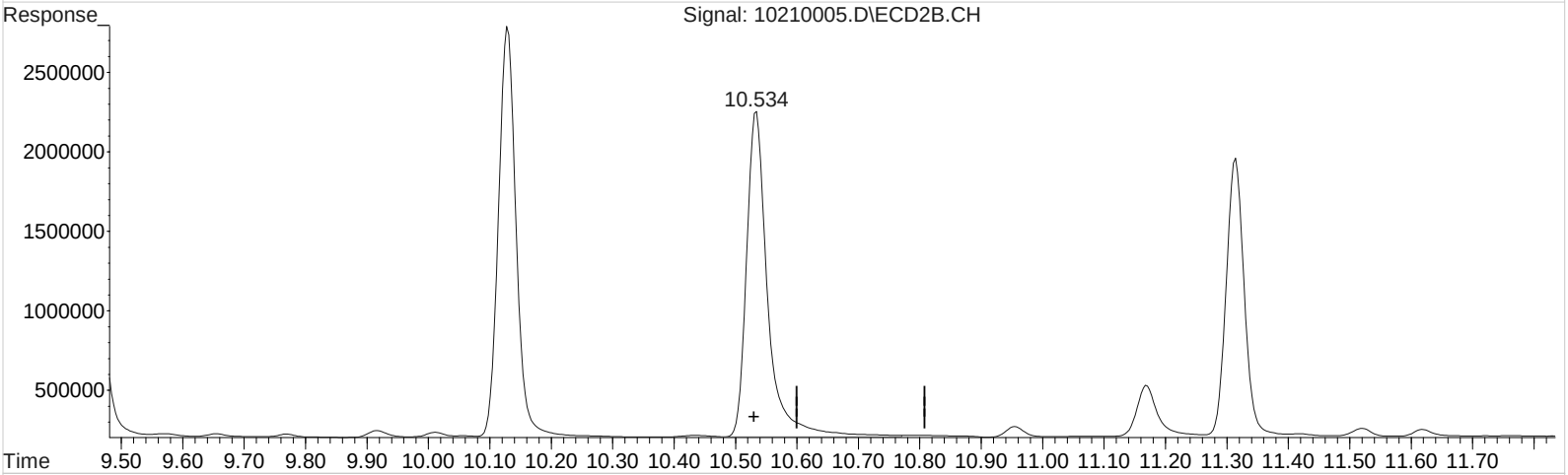
1st UA 10/21/20
2nd 10/22/20

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.

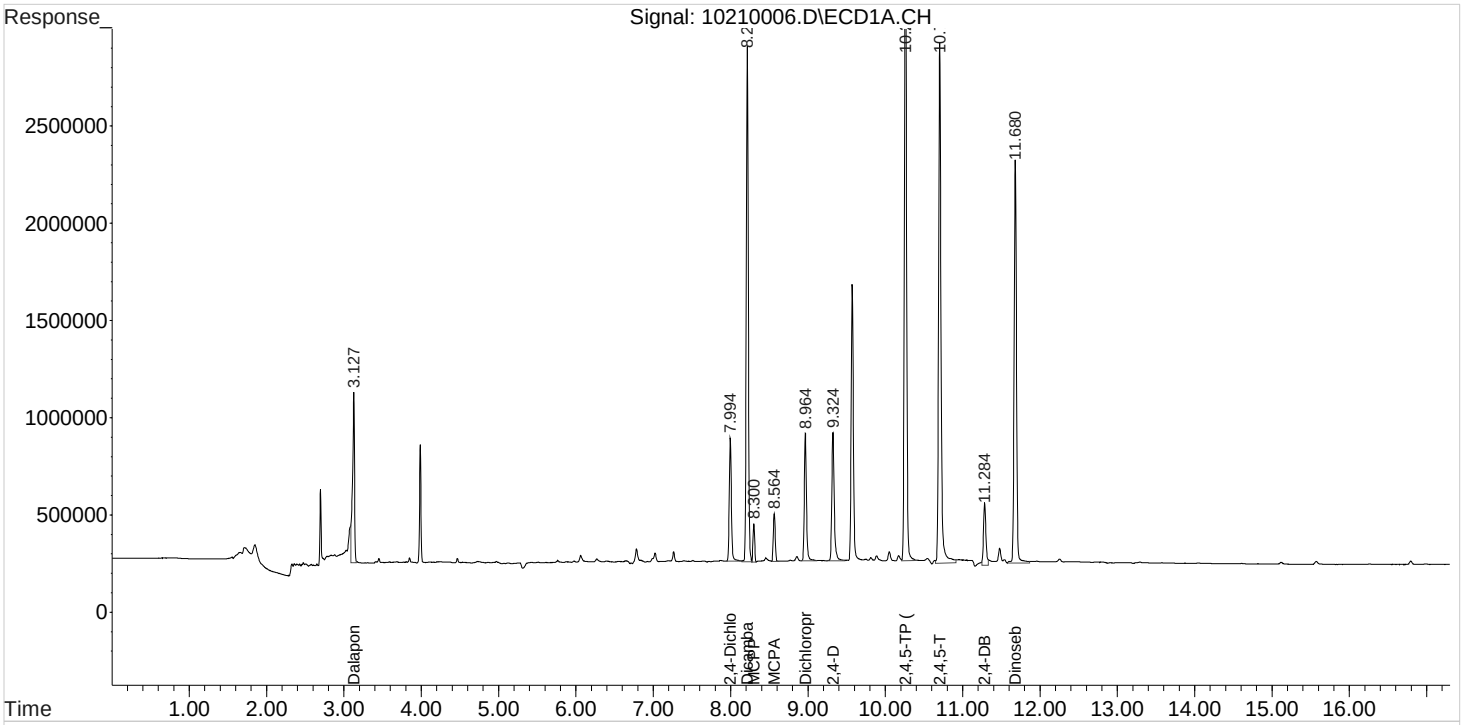
Quantitation Report (QT Reviewed)

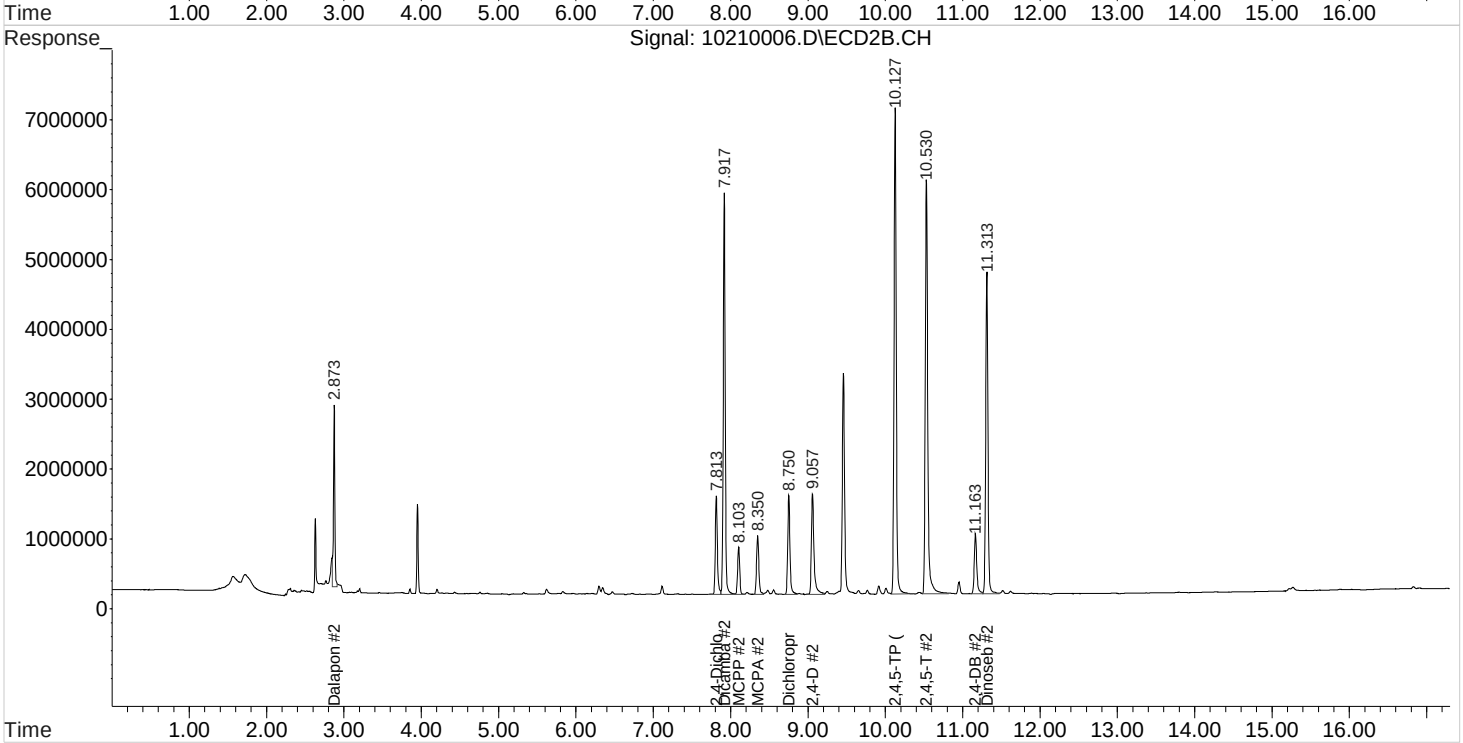
1st UA 10/21/20
2nd 10/22/20

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





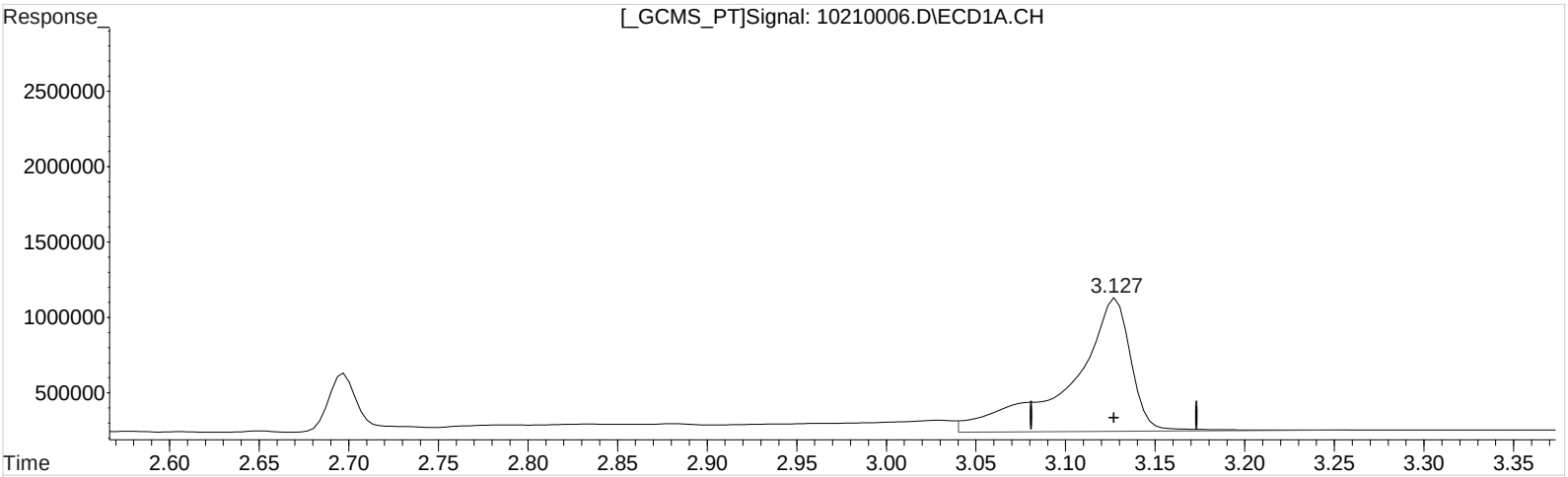
Quantitation Report (Qedit)

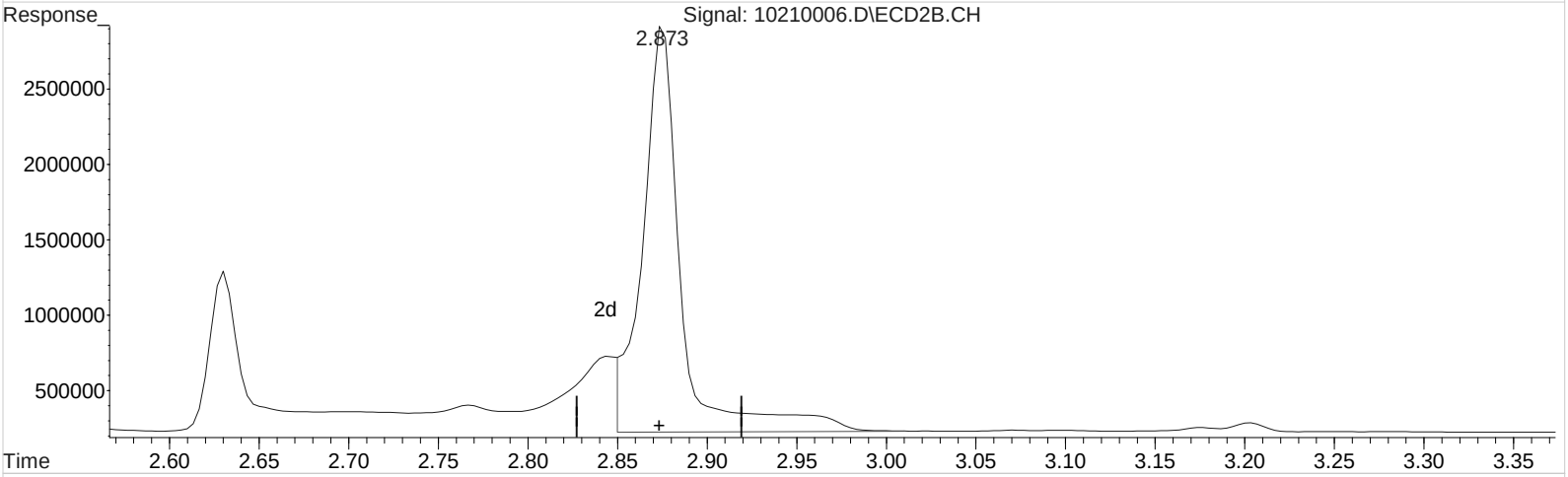
1st UA 10/21/20
2nd 10/22/20

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

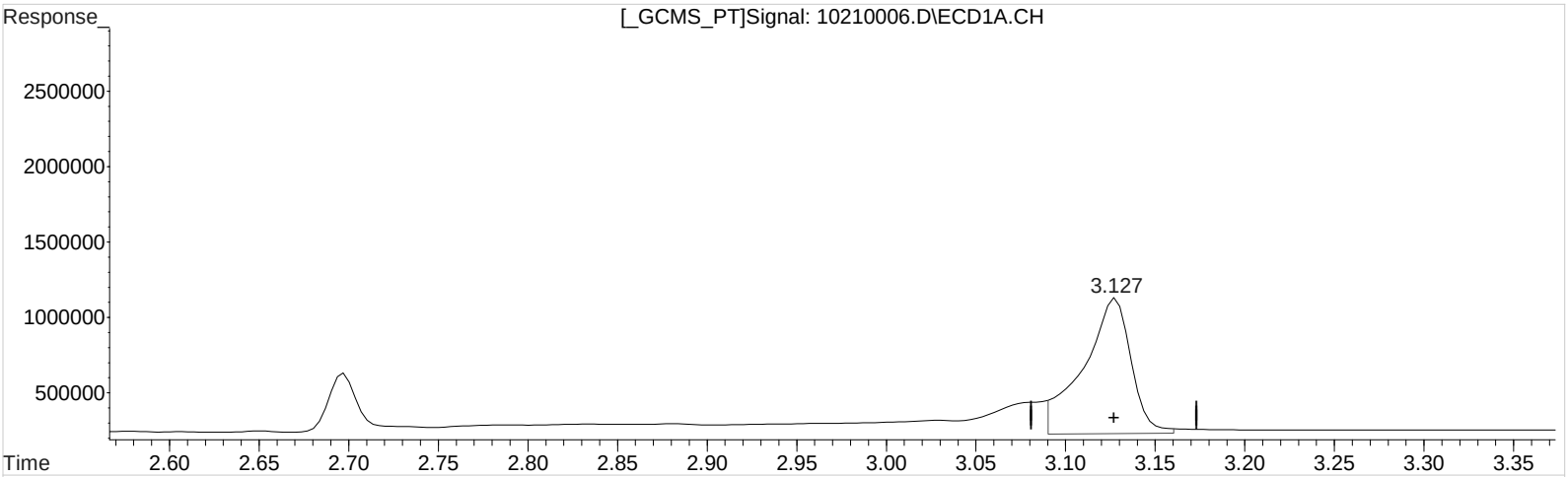
Quantitation Report (Qedit)

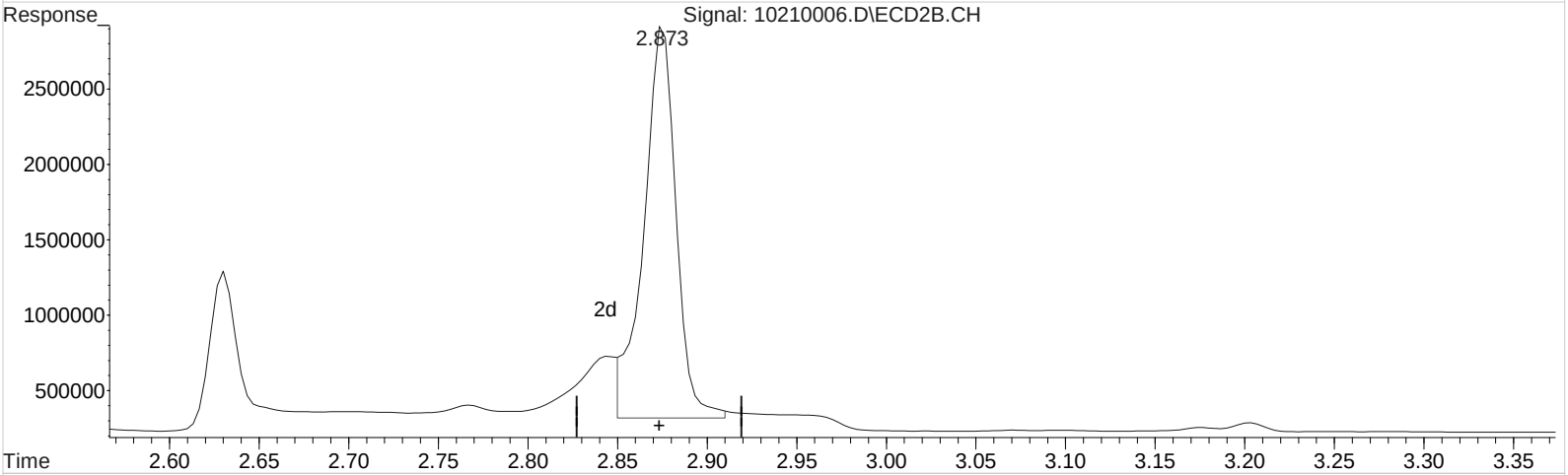
1st UA 10/21/20
2nd 10/22/20

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

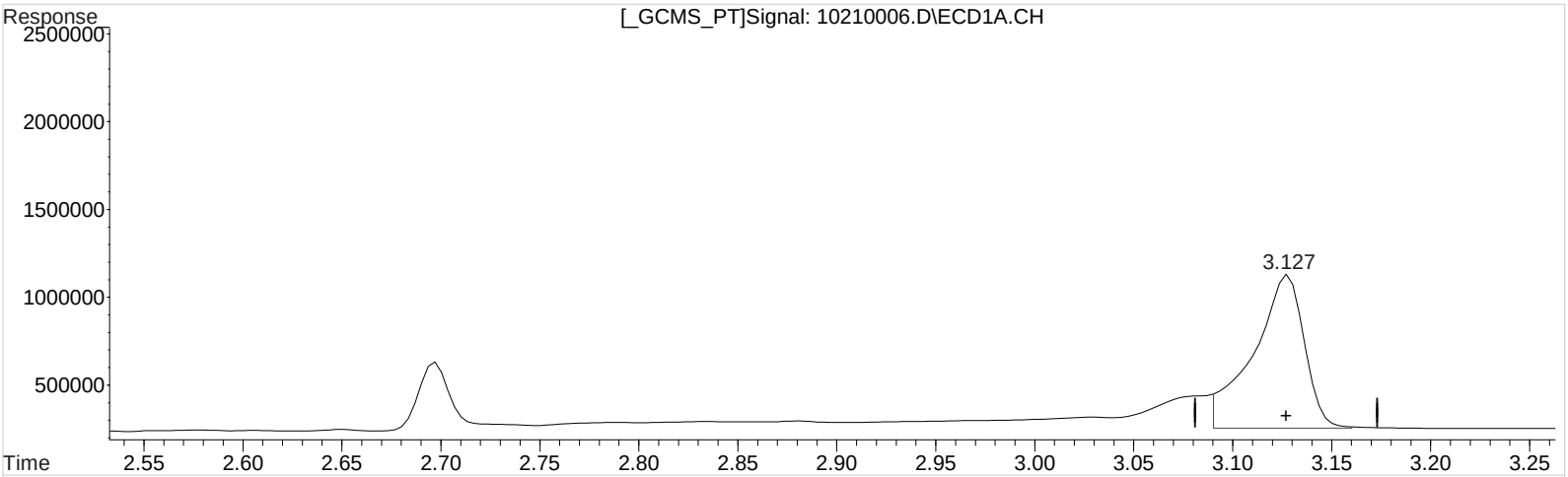
Quantitation Report (Qedit)

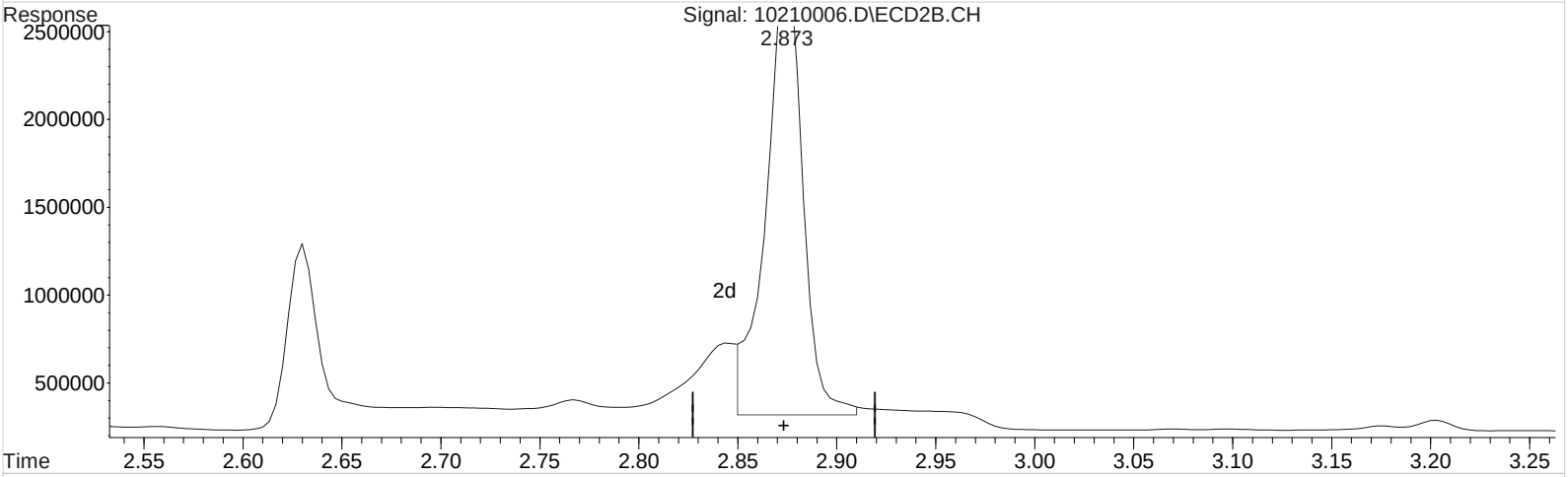
1st UA 10/21/20
2nd 10/22/20

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

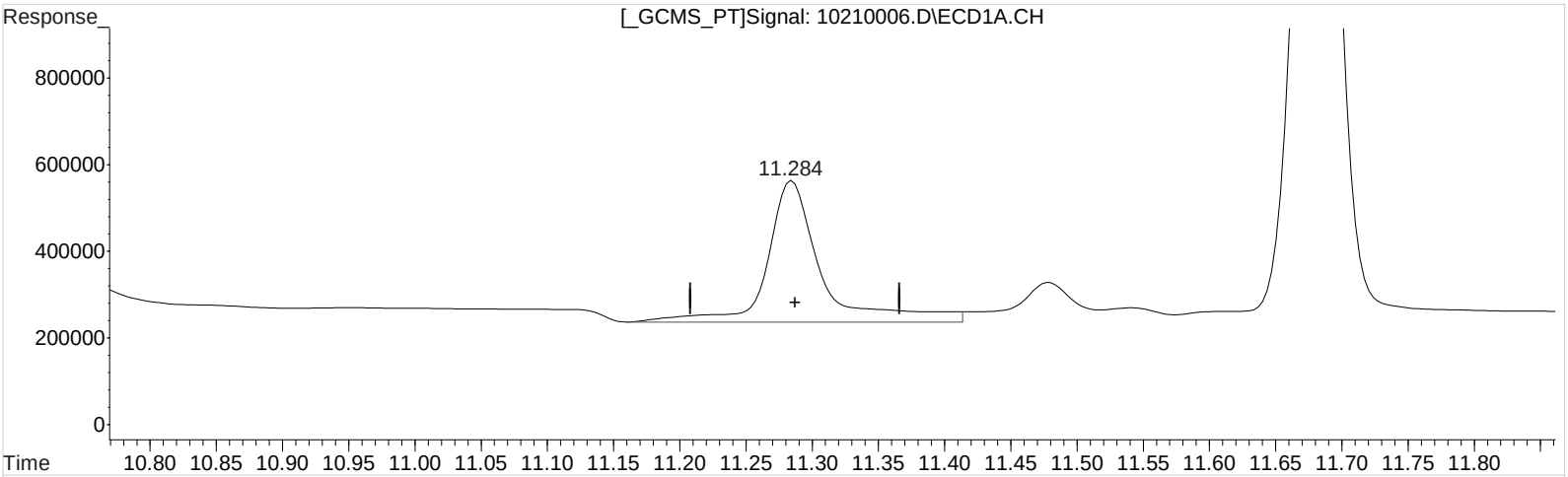
Quantitation Report (Qedit)

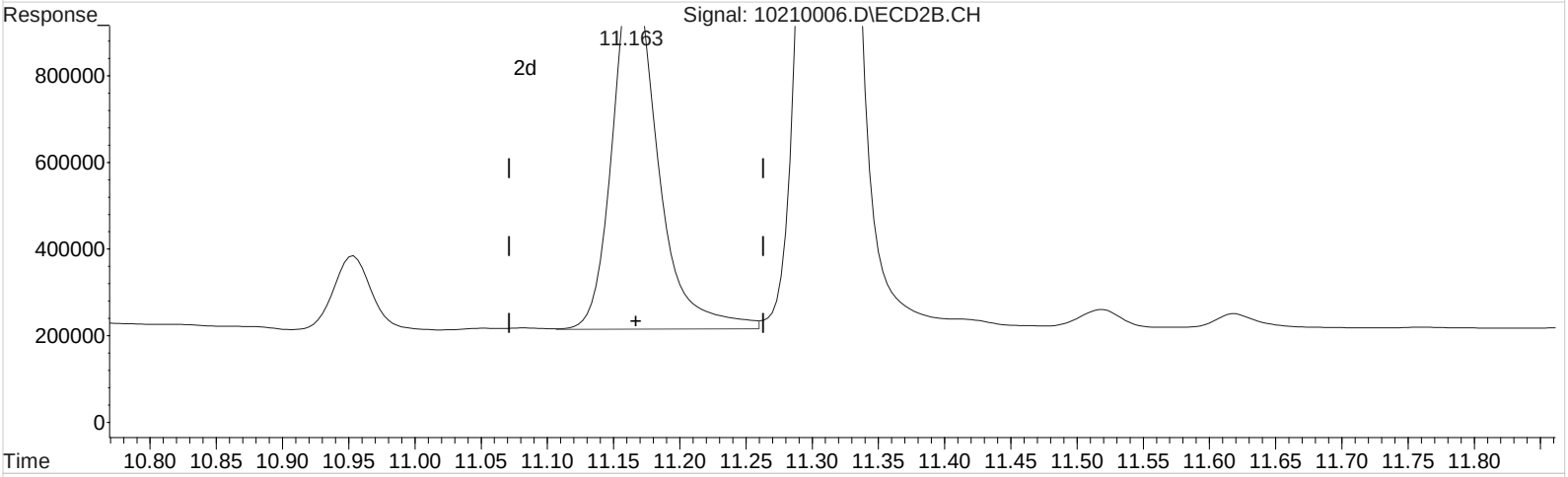
1st UA 10/21/20
2nd 10/22/20

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

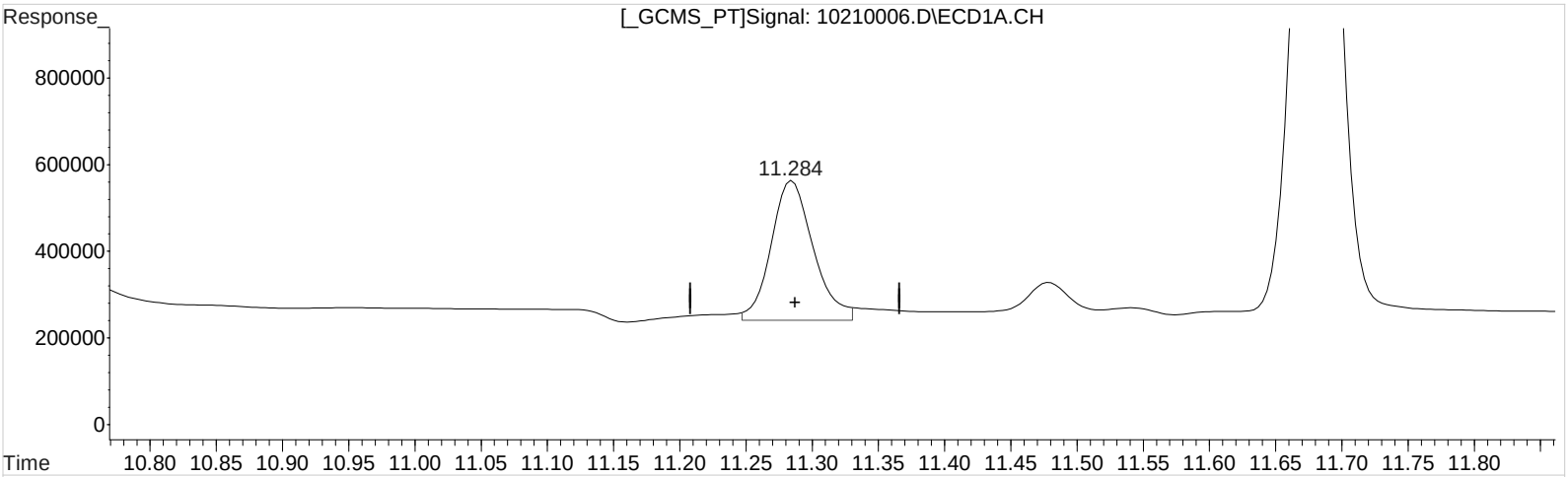
Quantitation Report (Qedit)

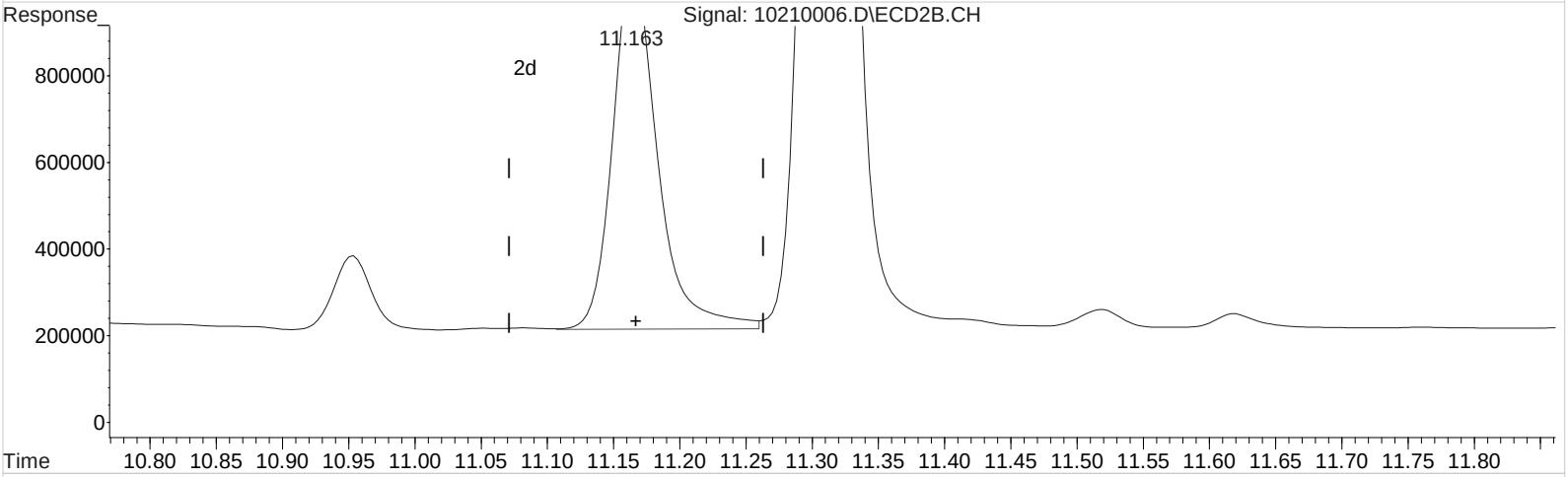
1st UA 10/21/20
2nd 10/22/20

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.

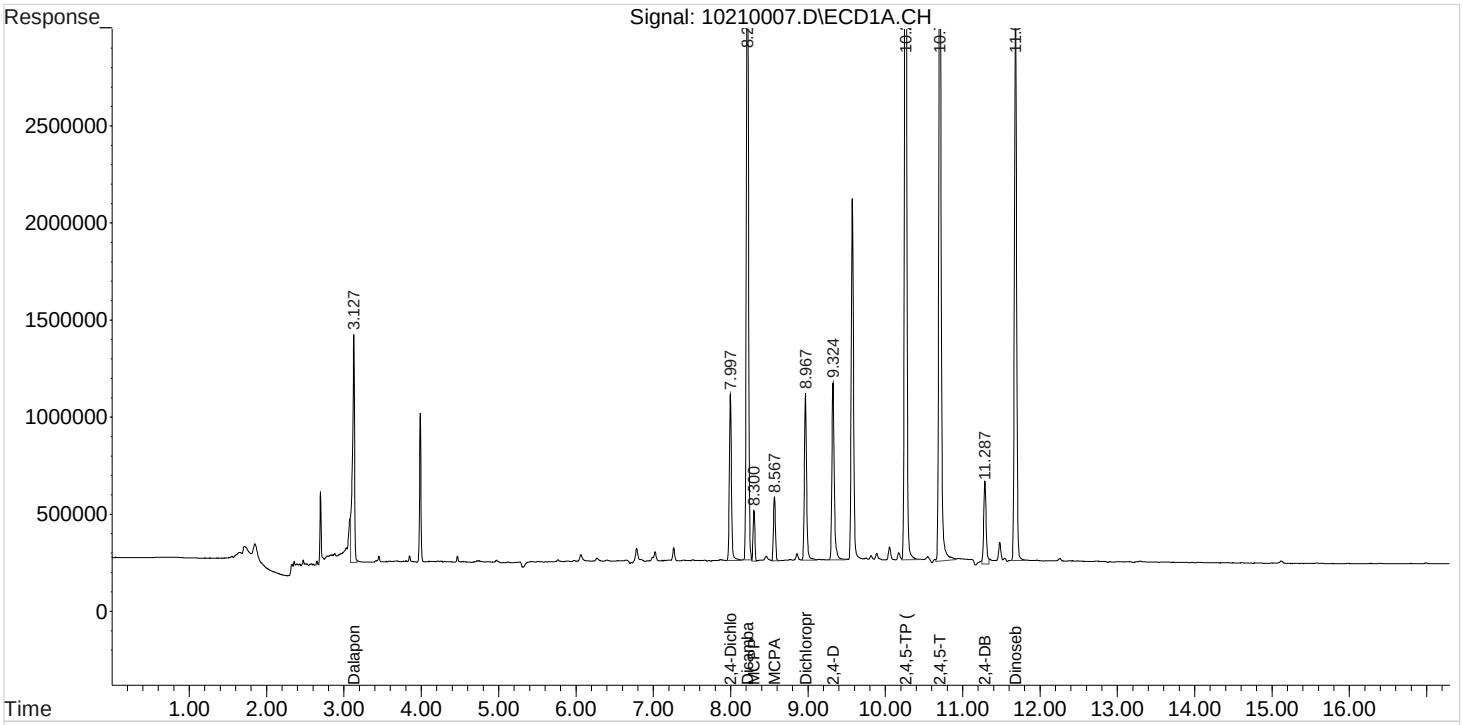
Quantitation Report (QT Reviewed)

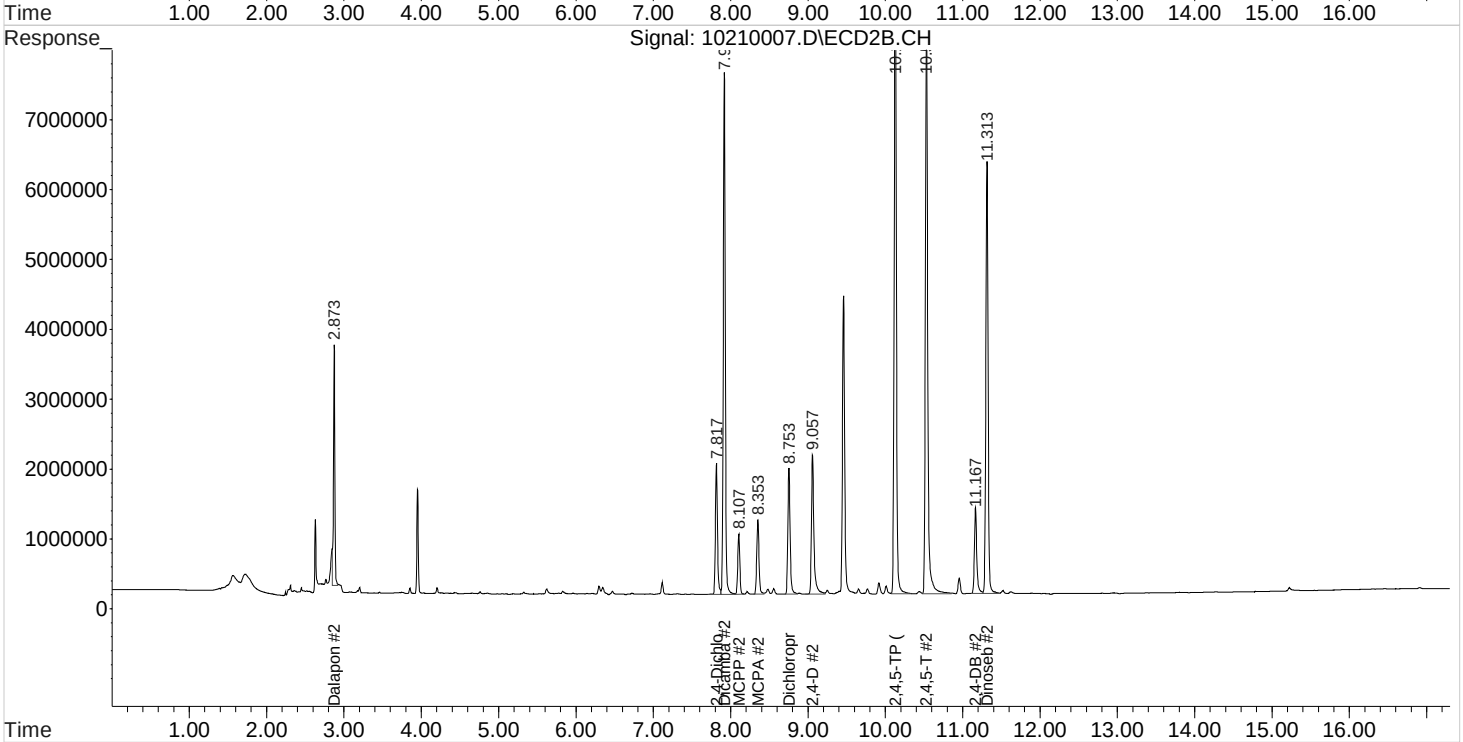
1st UA 10/21/20
2nd 10/22/20

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





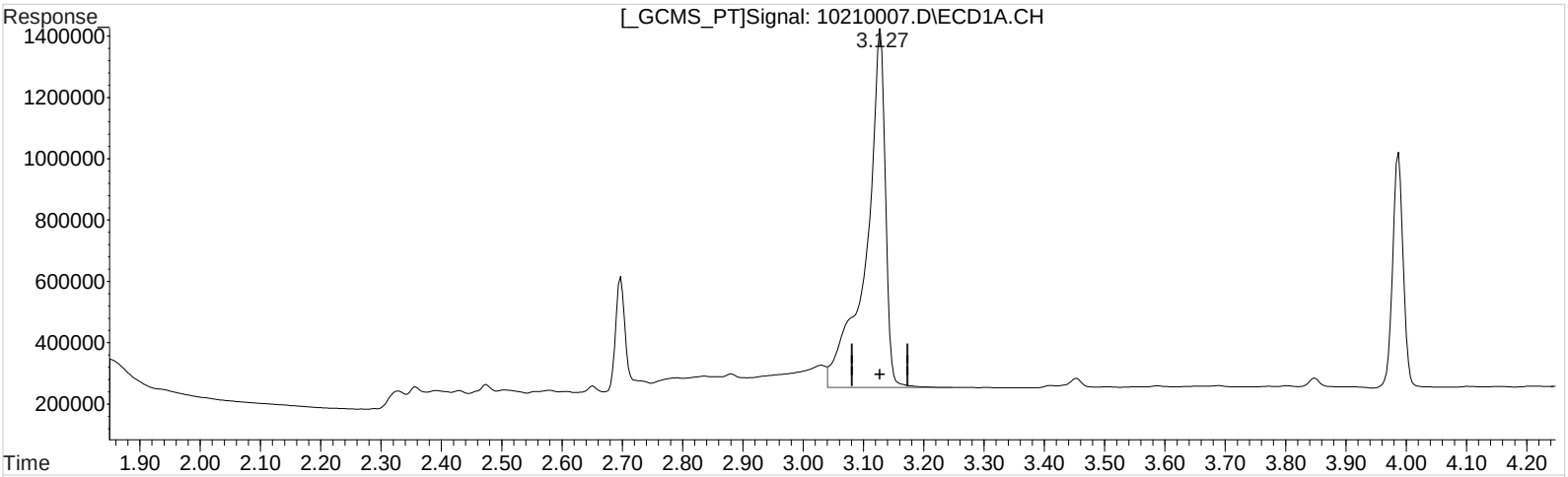
Quantitation Report (Qedit)

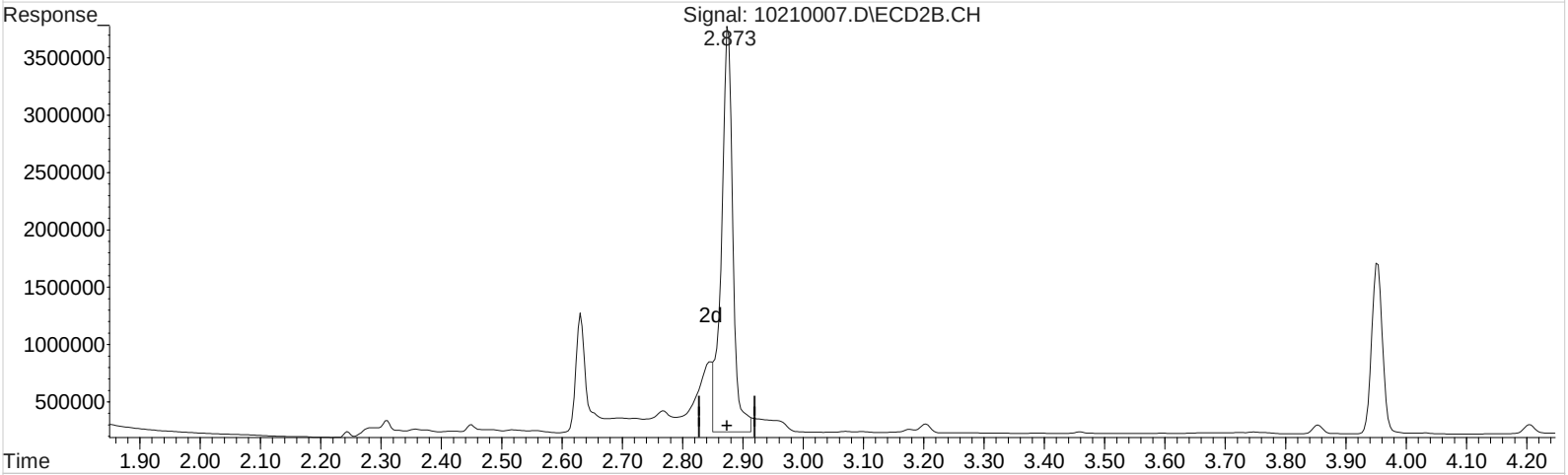
1st UA 10/21/20
2nd 10/22/20

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

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.873min 90.173 ppb m

response 4587035

(+) = Expected Retention Time

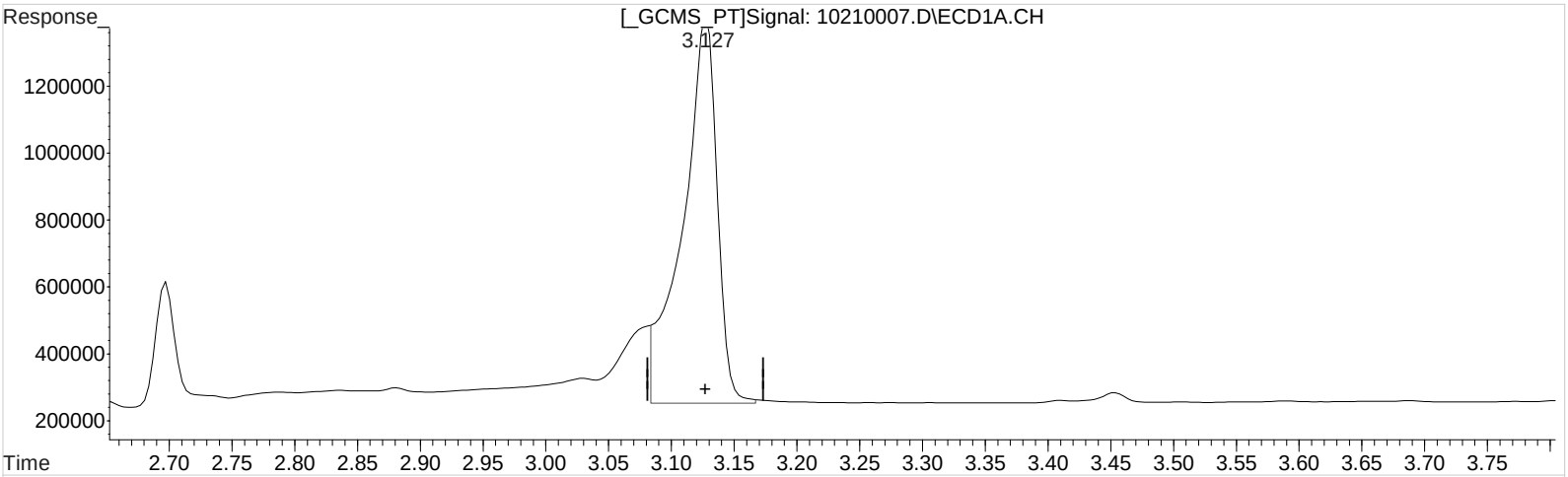
Quantitation Report (Qedit)

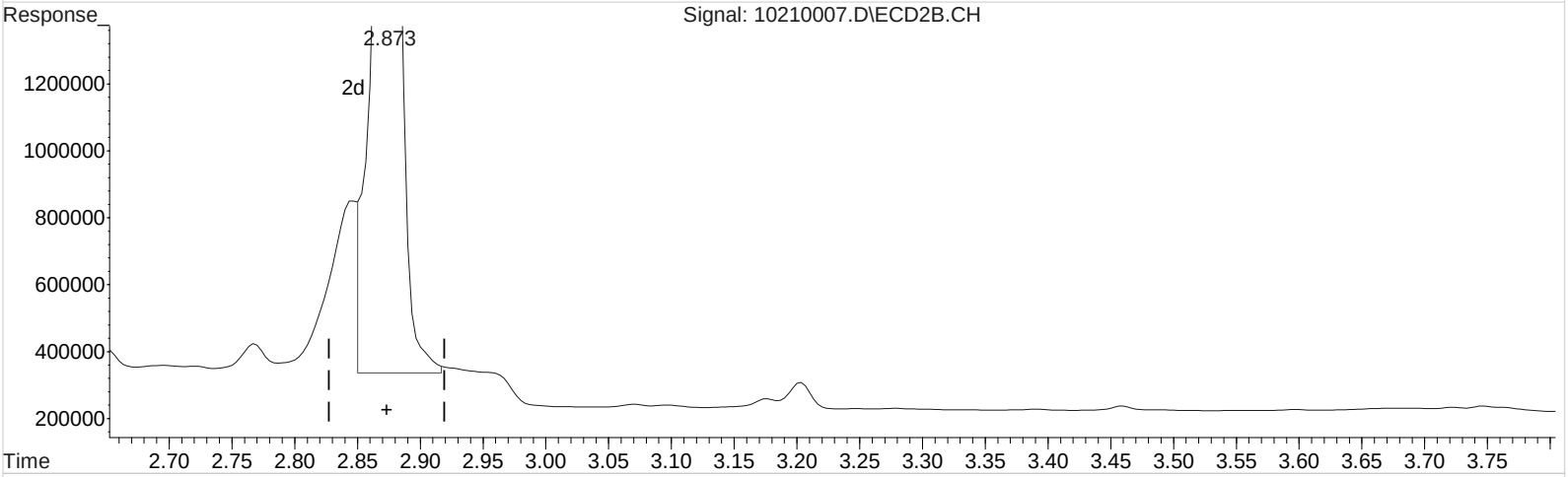
1st UA 10/21/20
2nd 10/22/20

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

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.873min 90.872 ppb m

response 4219125

(+) = Expected Retention Time

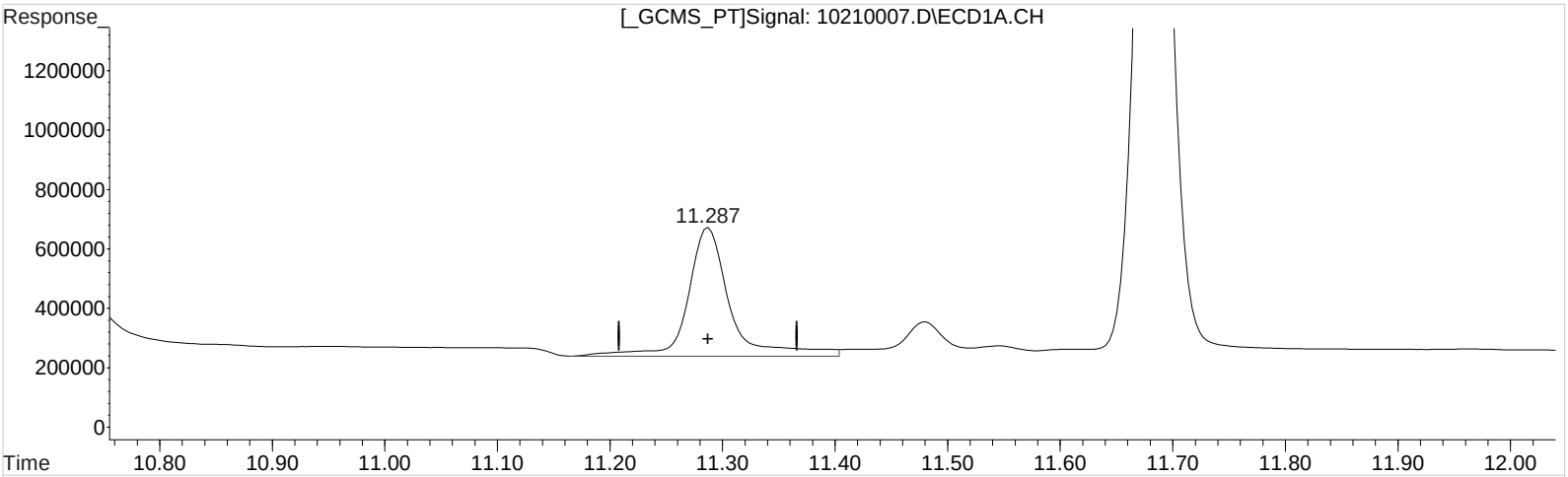
Quantitation Report (Qedit)

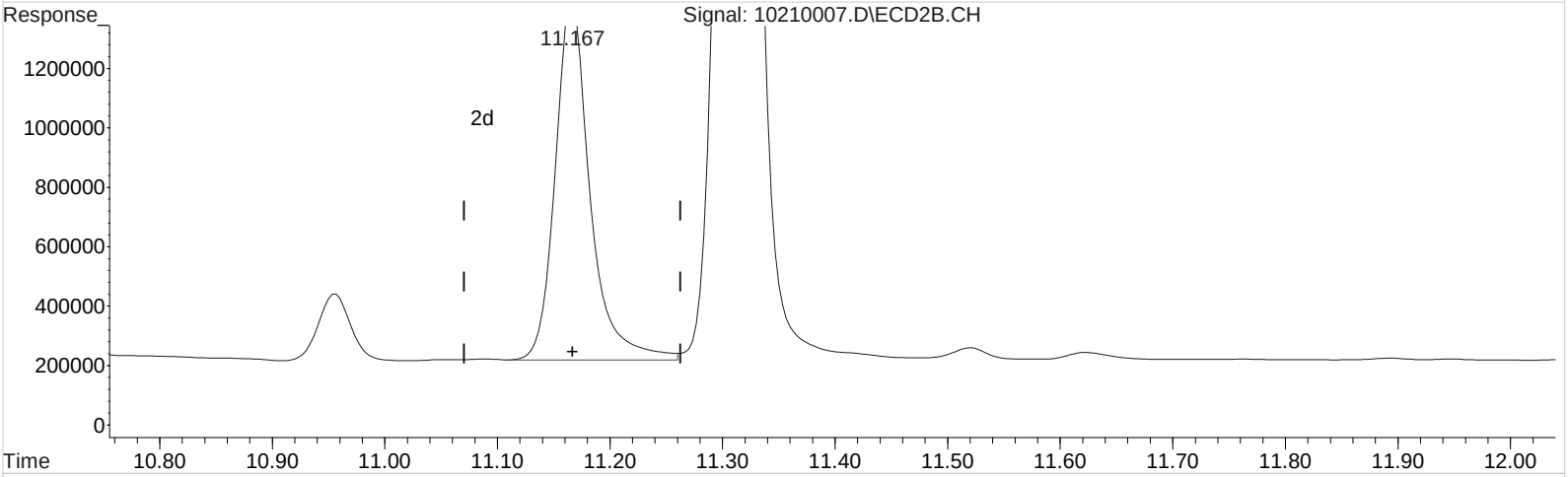
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:14:42 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(10) 2,4-DB (m)

11.287min 112.668 ppb

response 1130621

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

11.167min 94.700 ppb

response 2610405

Manual Integration:

Before

10/21/20

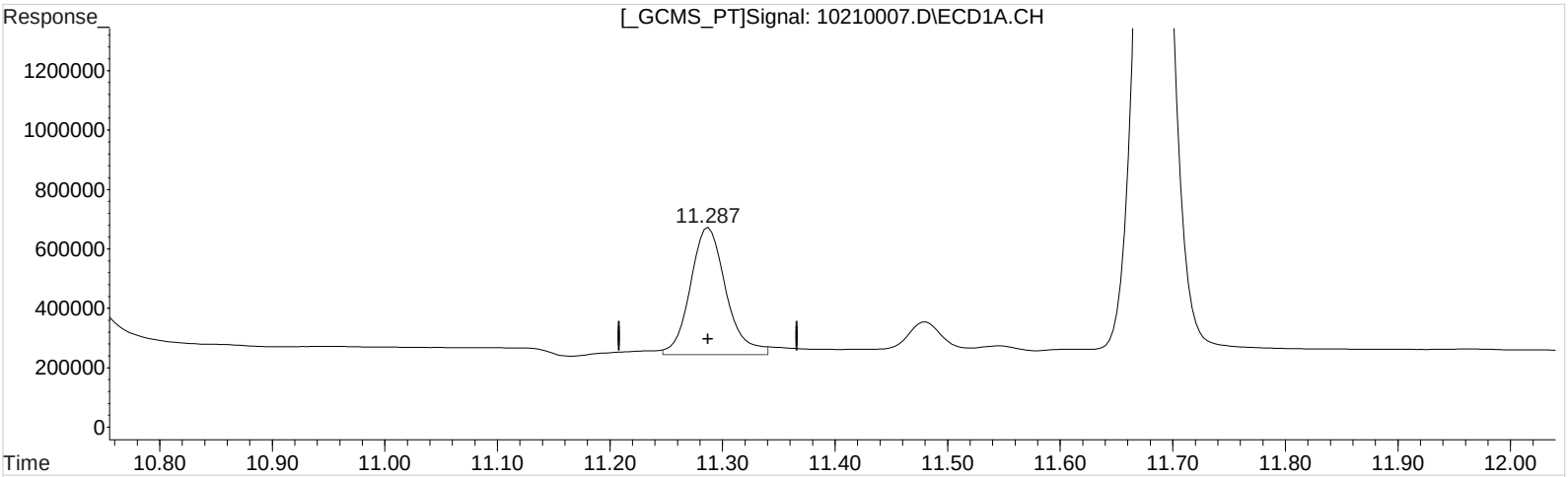
(+) = Expected Retention Time

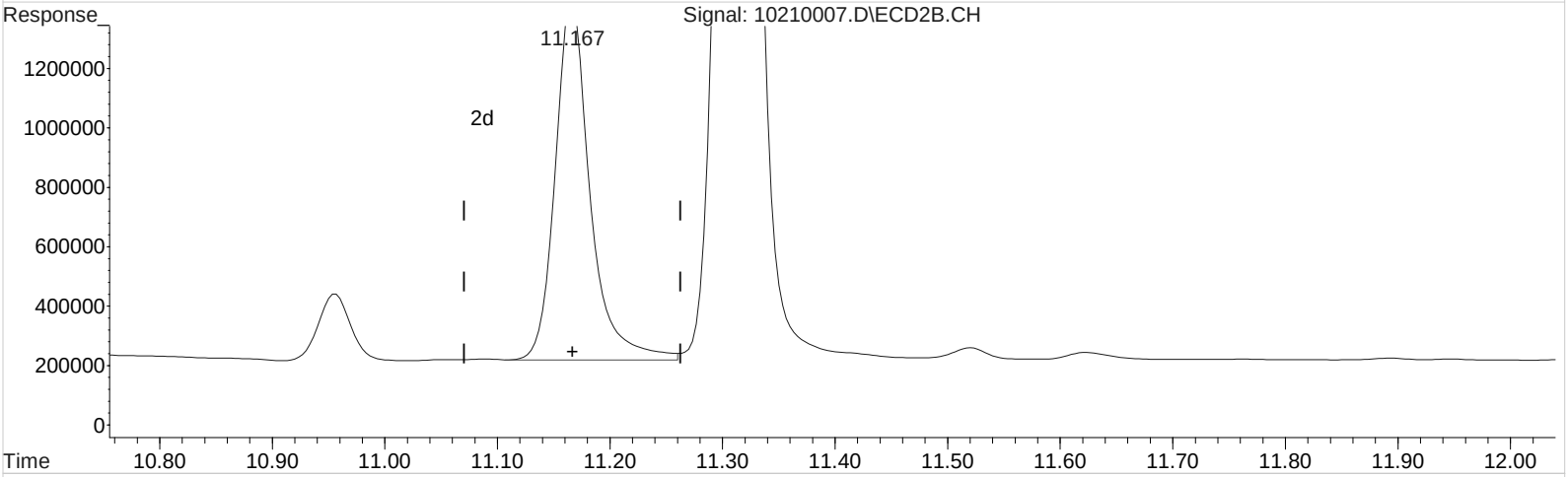
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:14:42 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(10) 2,4-DB (m)

11.287min 93.789 ppb m

response 941169

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

11.167min 94.700 ppb

response 2610405

Manual Integration:

After

Baseline/Shoulder

10/21/20

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:02 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.993	7.813	1959232	4387572	113.731	114.146
	Target Compounds						
1) m	Dalapon	3.127	2.873	2668589	5506745	113.511m	117.152m
3) m	Dicamba	8.213	7.916	7967267	16745862	117.390	117.694
4) m	MCPP	8.300	8.106	522627	1929619	11655.124	12187.501
5) m	MCPA	8.563	8.350	704455	2590948	11685.949	12109.753
6) m	Dichloroprop	8.963	8.750	2070717	4562901	118.745	119.464
7) m	2,4-D	9.320	9.056	2385344	5502448	118.932	118.917
8) m	2,4,5-TP ...	10.260	10.126	10956862	23161274	118.135	118.763
9) m	2,4,5-T	10.703	10.530	9647622	21578156	119.497	117.574
10) m	2,4-DB	11.283	11.166	1184989	3225586	120.887m	118.254
11) m	Dinoseb	11.680	11.313	7044640	15278779	118.457	118.795

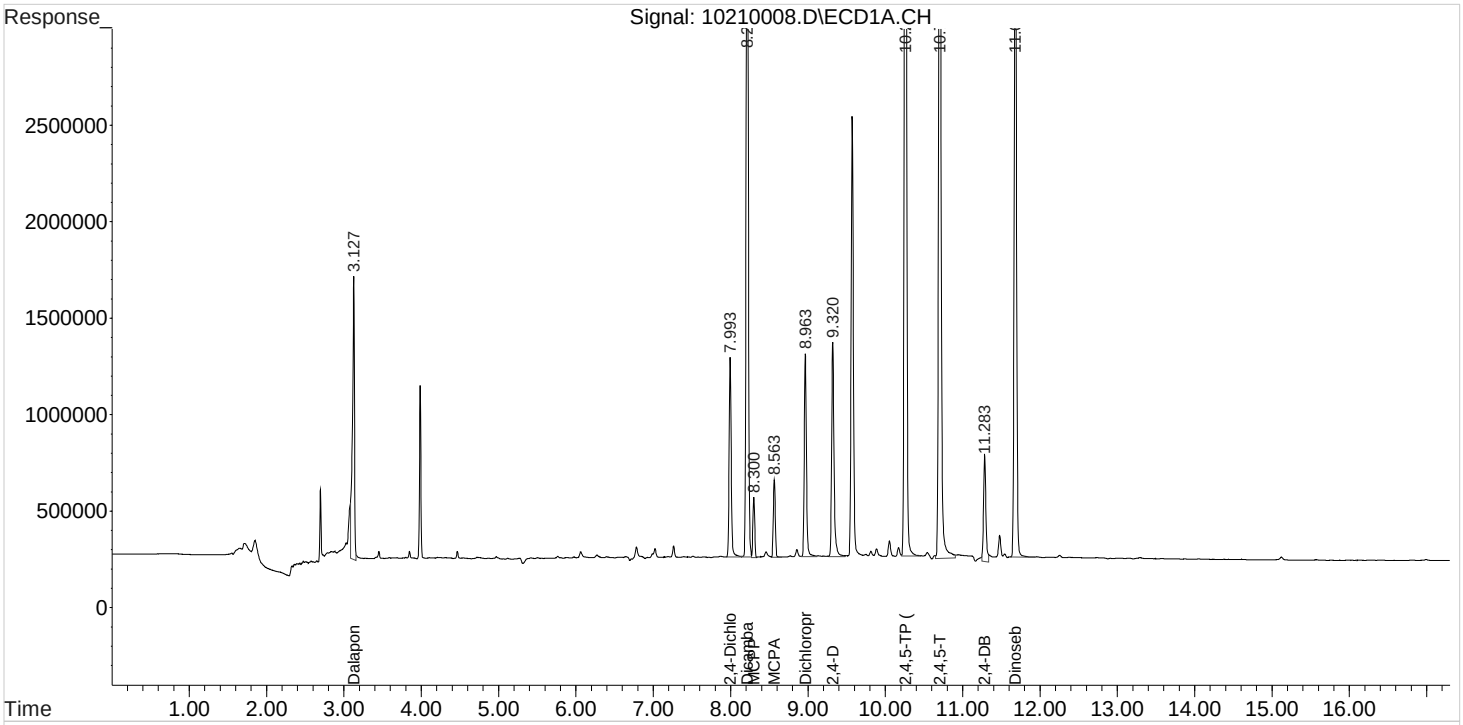
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

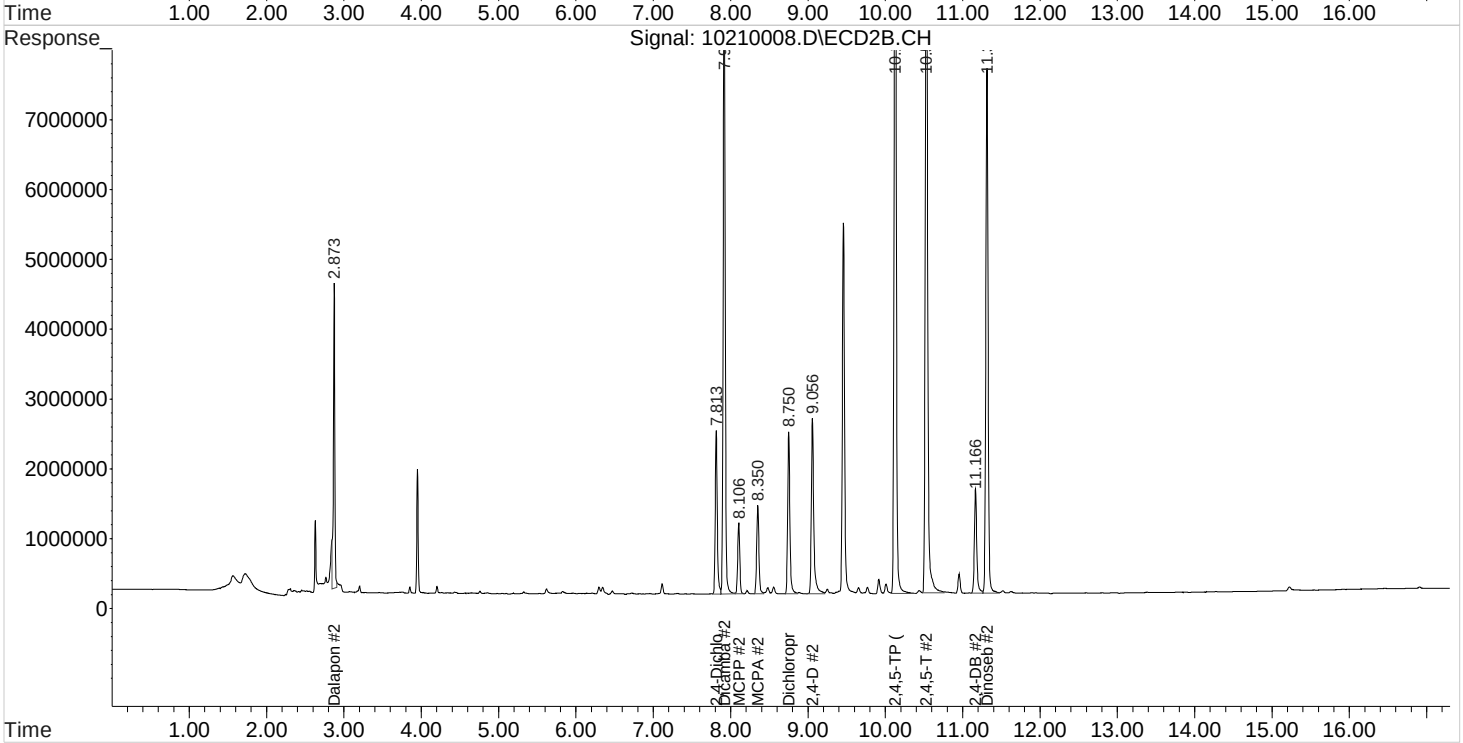
1st UA 10/21/20
2nd 10/22/20

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





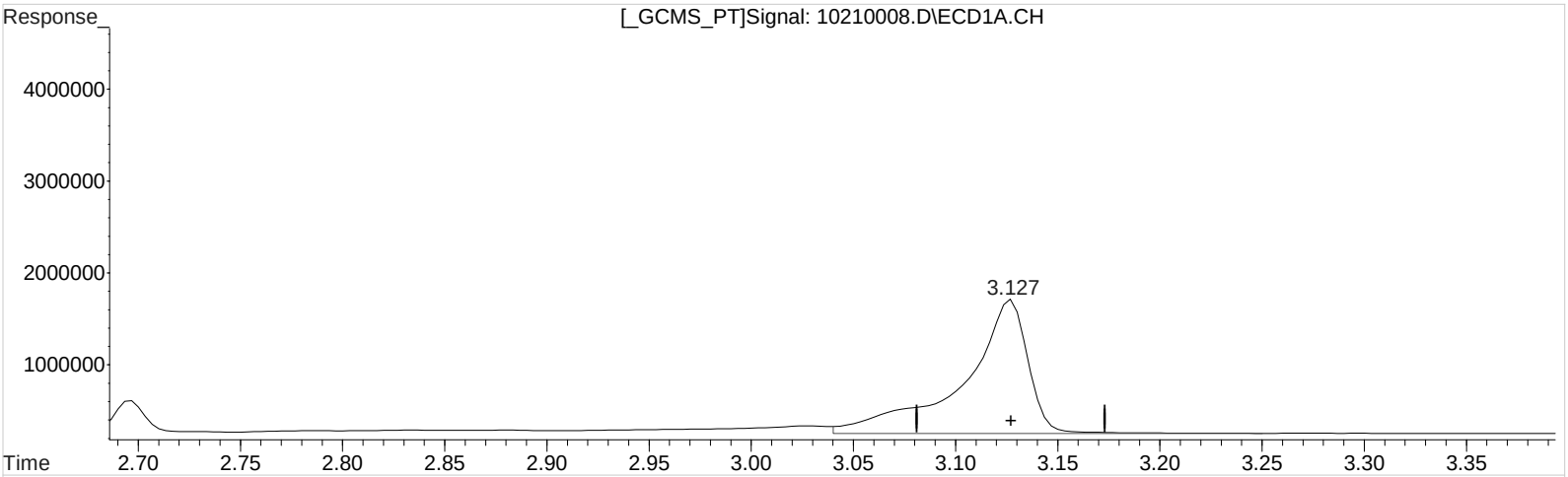
Quantitation Report (Qedit)

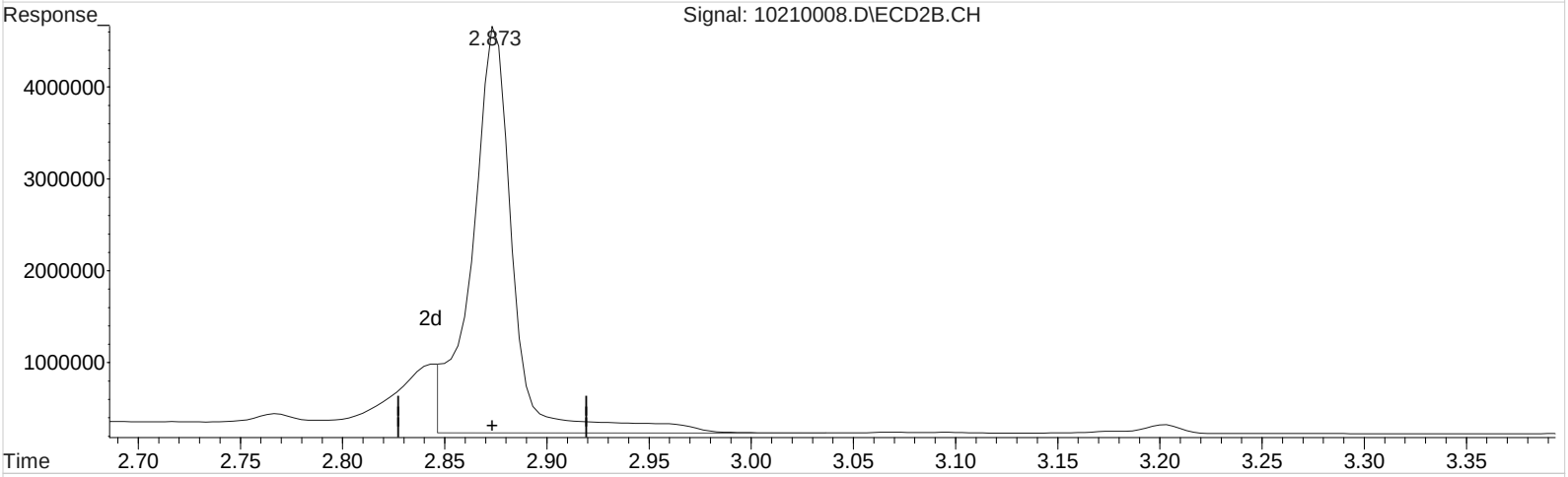
1st UA 10/21/20
2nd 10/22/20

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

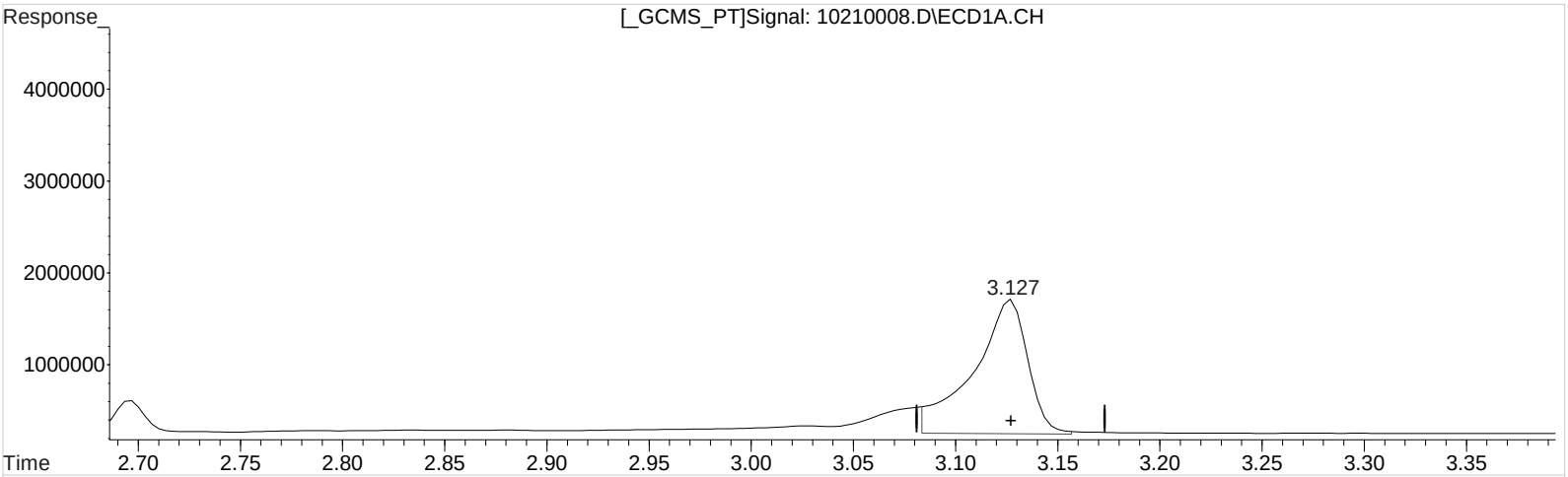
Quantitation Report (Qedit)

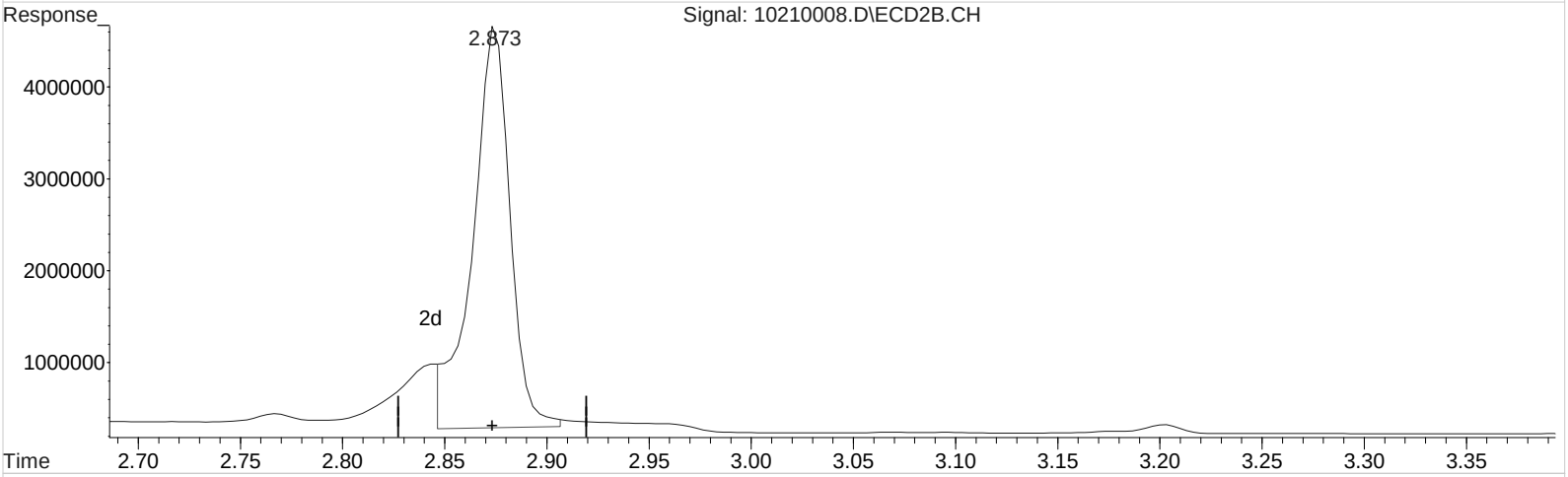
1st UA 10/21/20
2nd 10/22/20

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

(1) Dalapon #2 (m)

2.873min 117.152 ppb m

response 5506745

Manual Integration:

After

Baseline/Shoulder

10/21/20

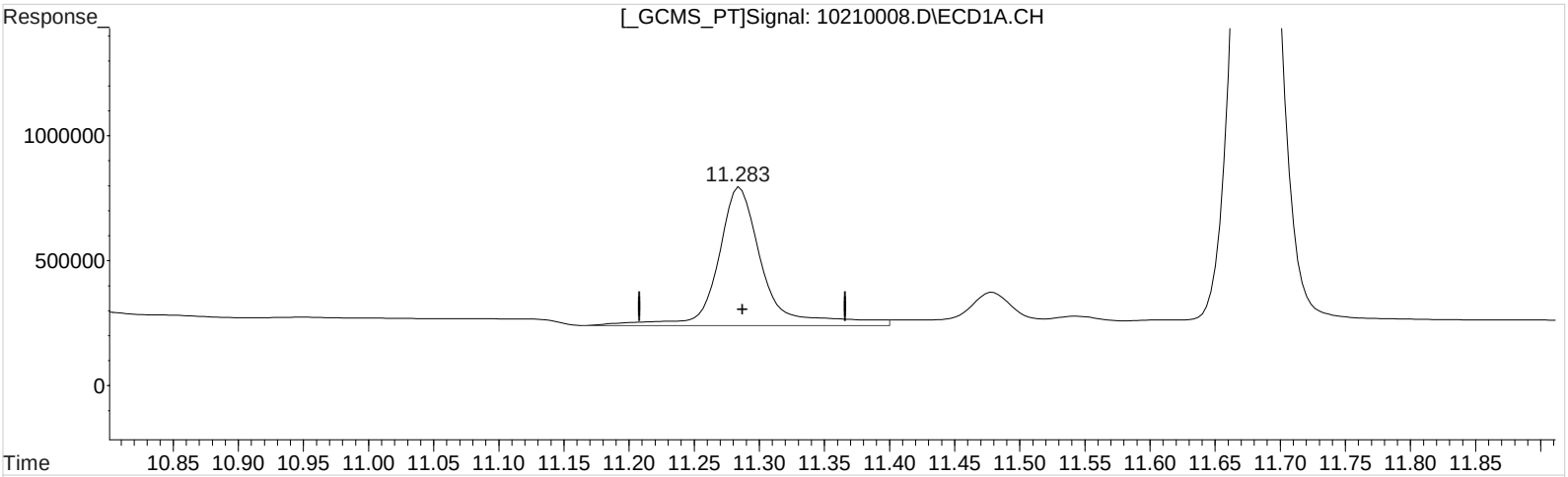
(+) = Expected Retention Time

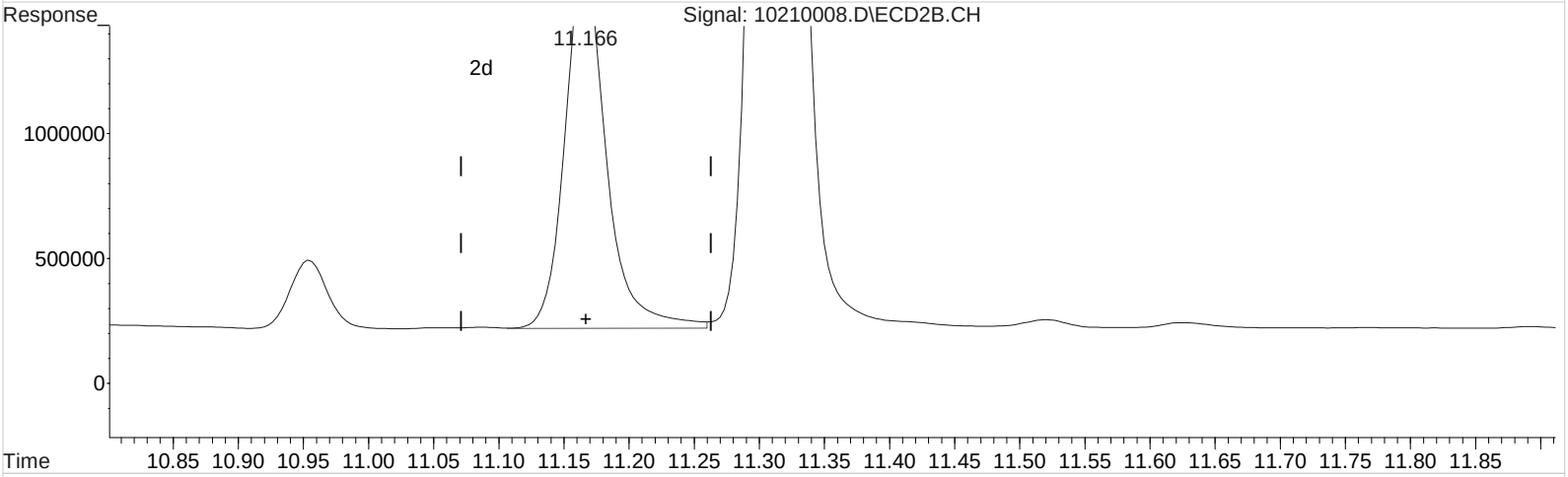
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\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

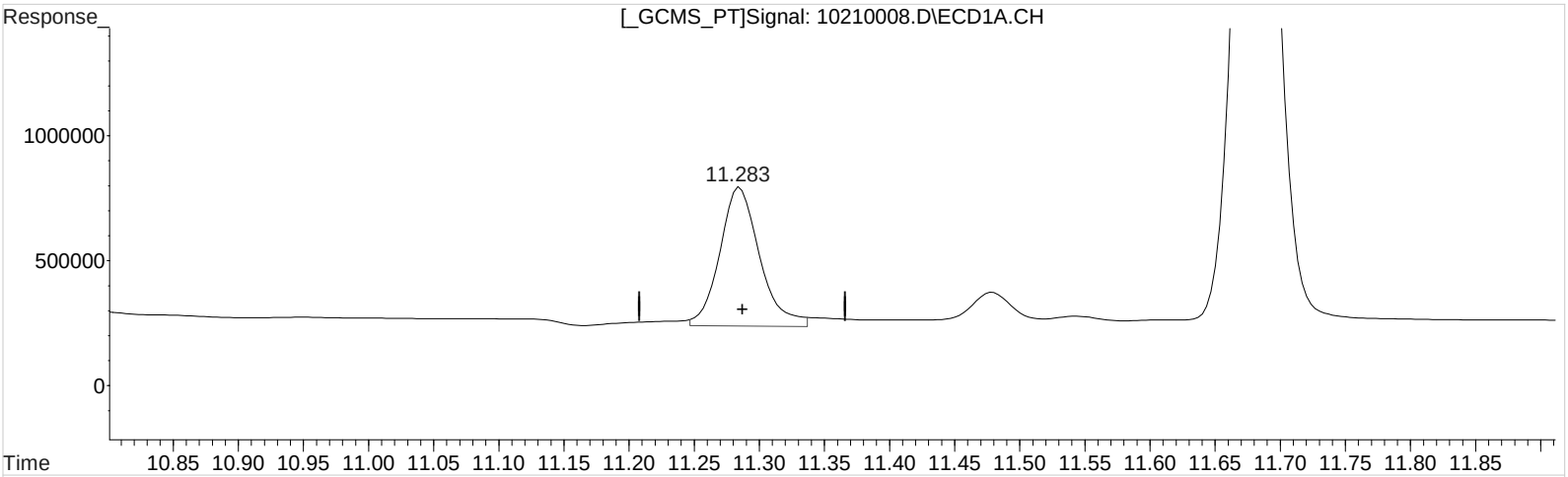
Quantitation Report (Qedit)

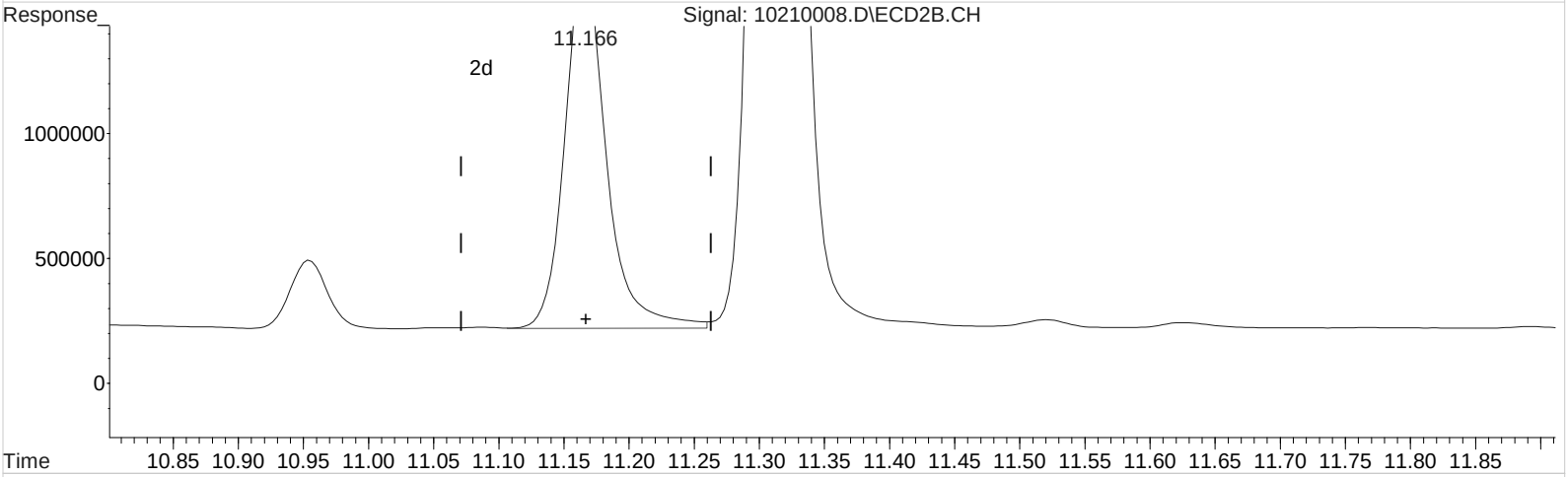
1st UA 10/21/20
2nd 10/22/20

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.

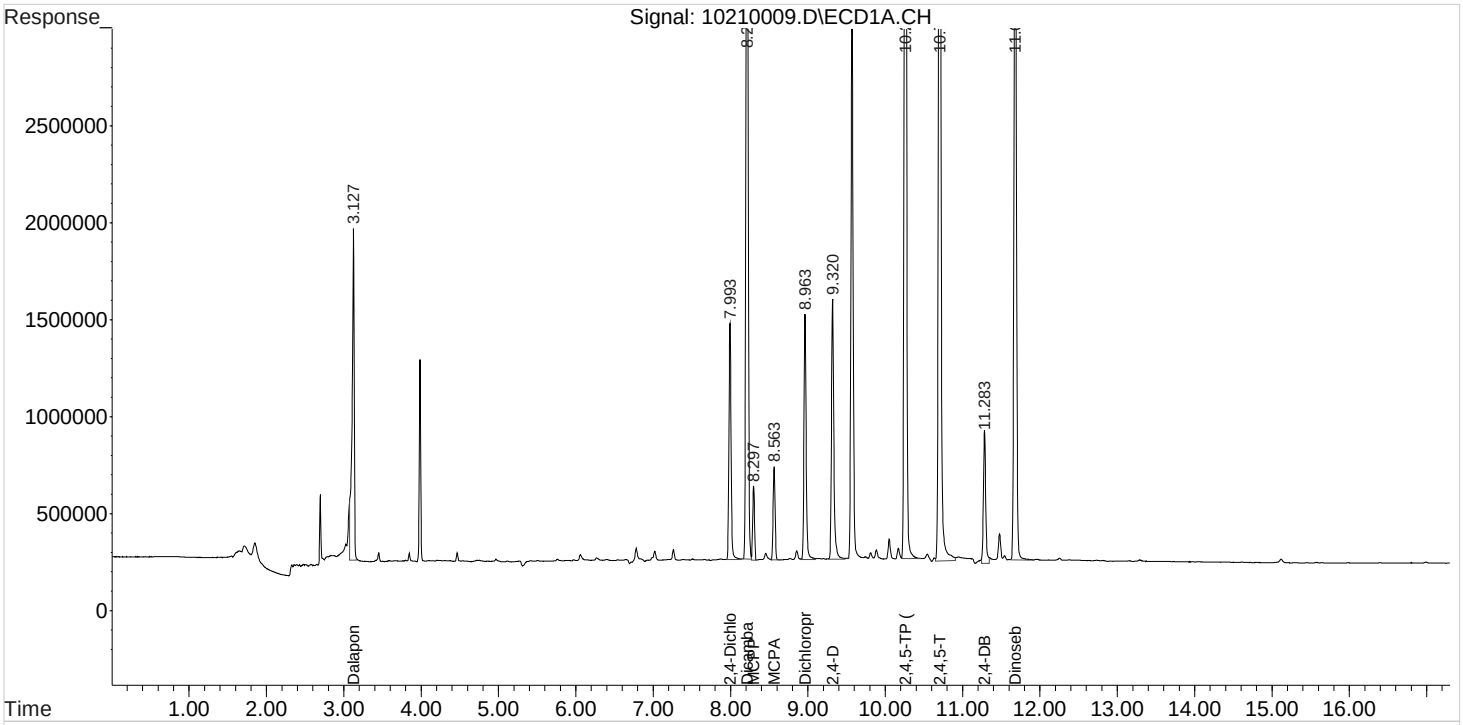
Quantitation Report (QT Reviewed)

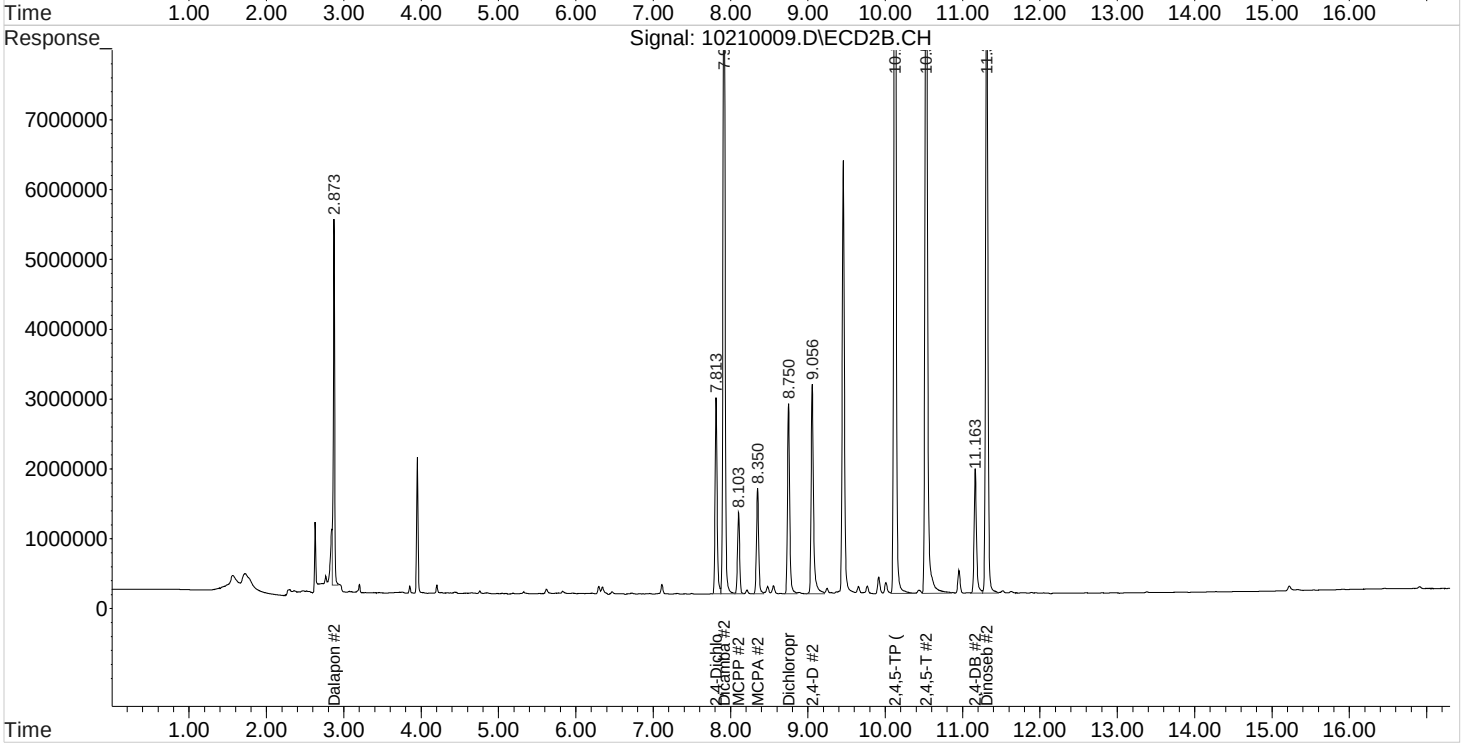
1st UA 10/21/20
2nd 10/22/20

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





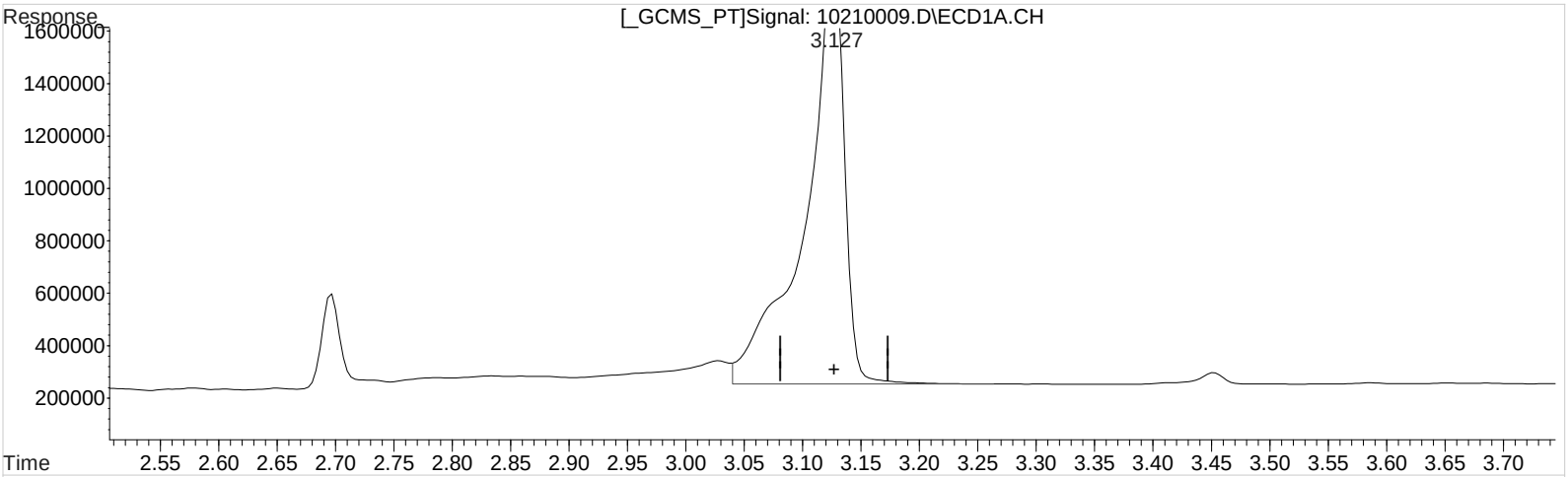
Quantitation Report (Qedit)

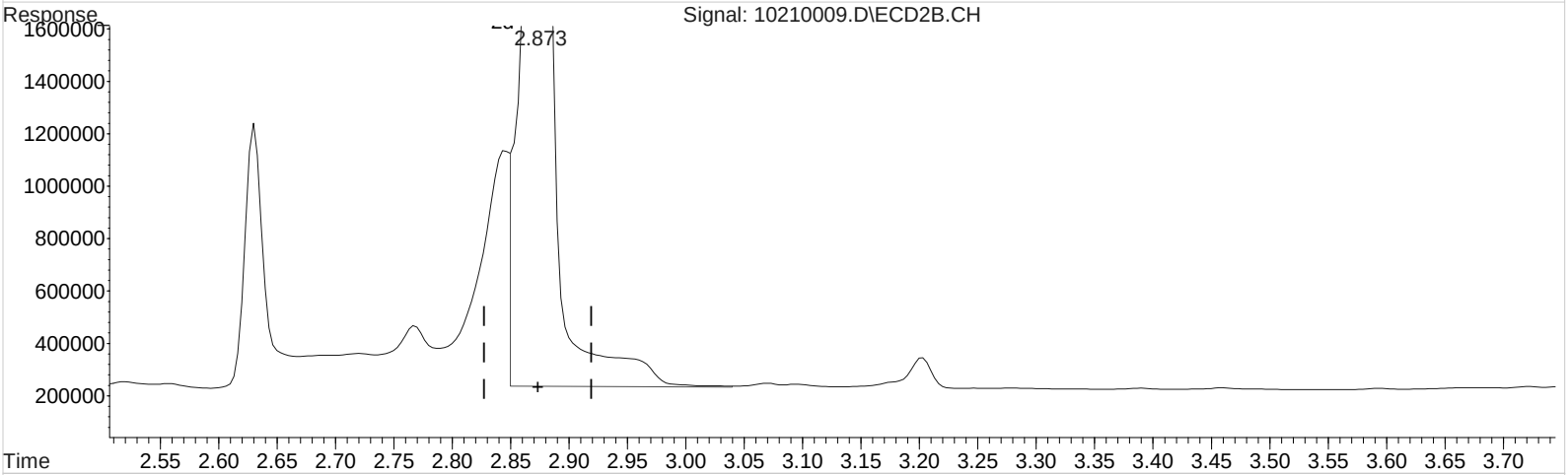
1st UA 10/21/20
2nd 10/22/20

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

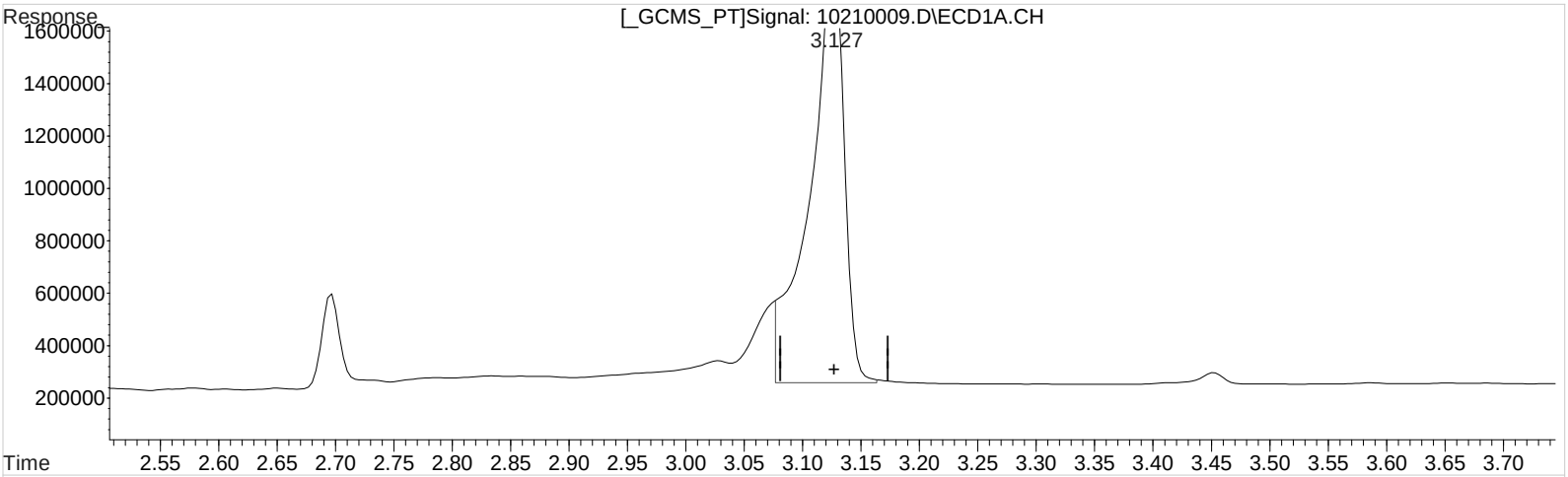
Quantitation Report (Qedit)

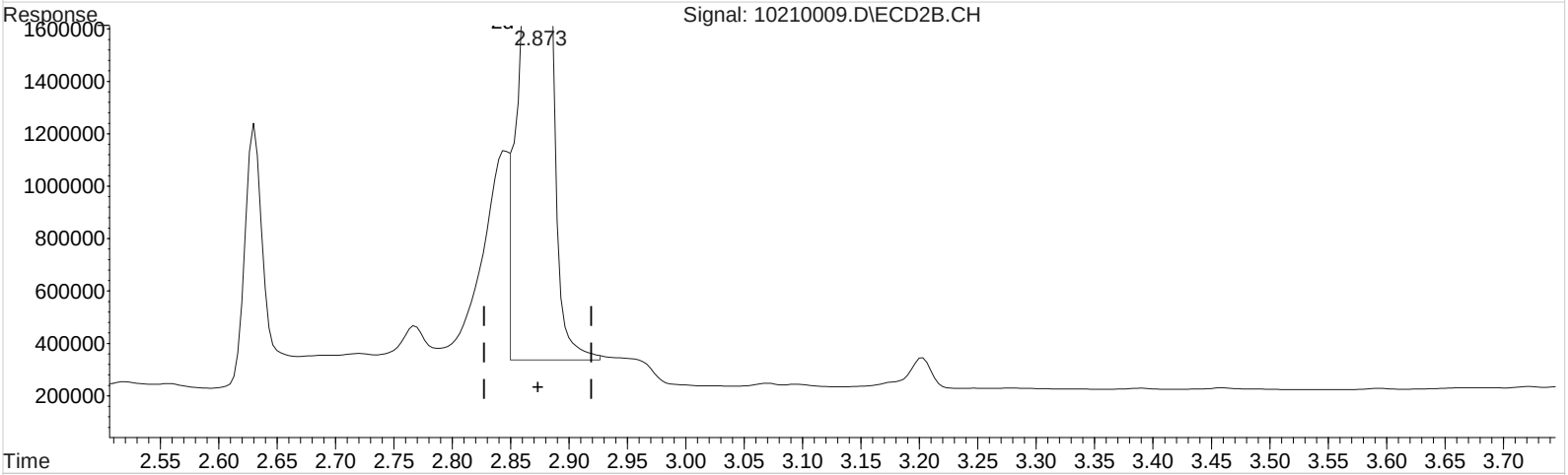
1st UA 10/21/20
2nd 10/22/20

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

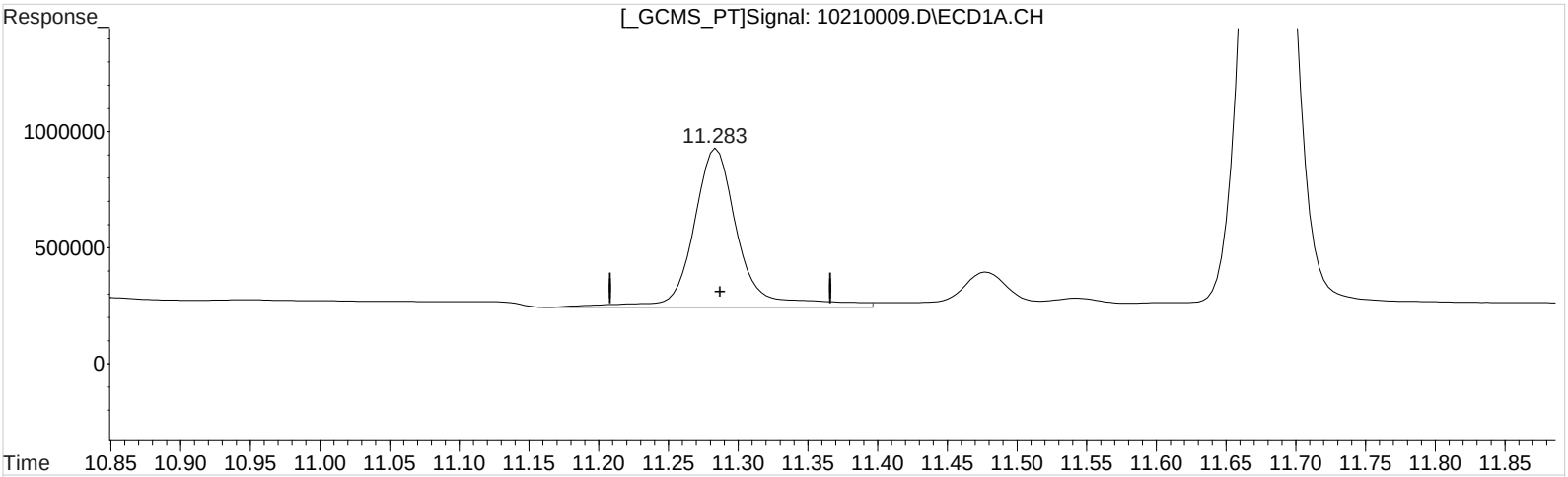
Quantitation Report (Qedit)

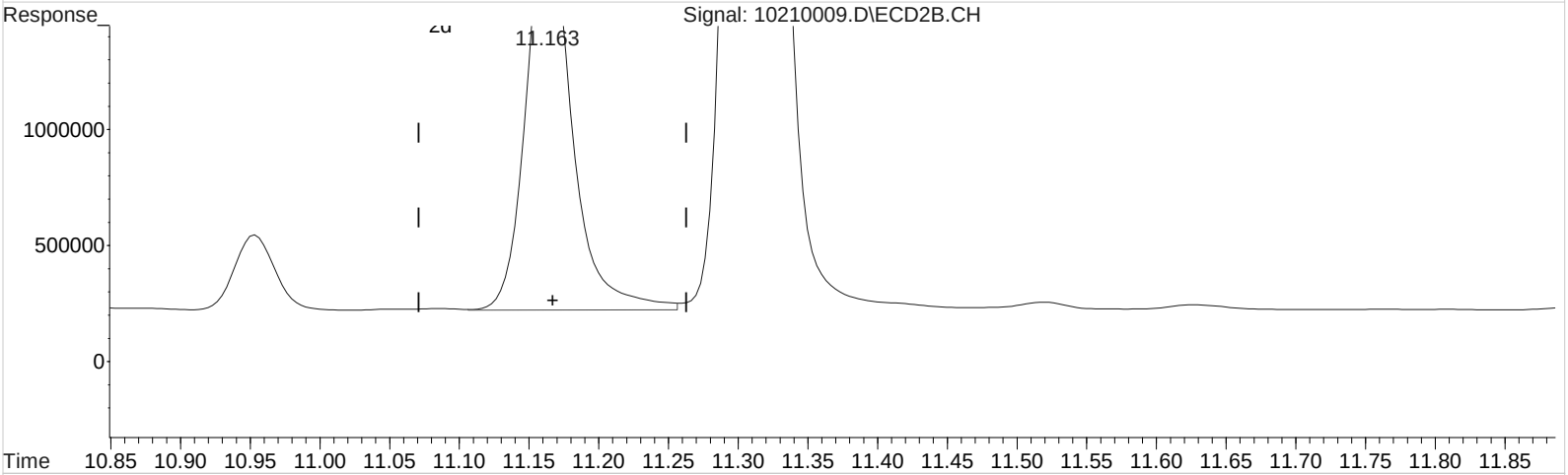
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(10) 2,4-DB (m)

11.283min 160.143 ppb

response 1557848

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

11.163min 142.303 ppb

response 3879490

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

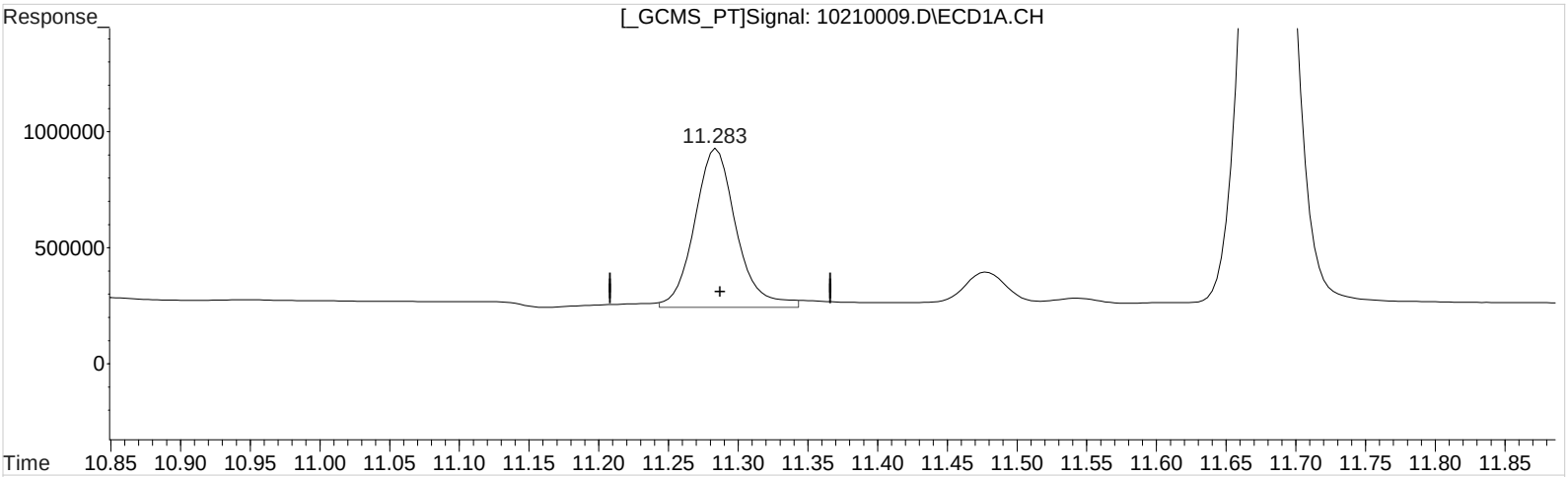
Quantitation Report (Qedit)

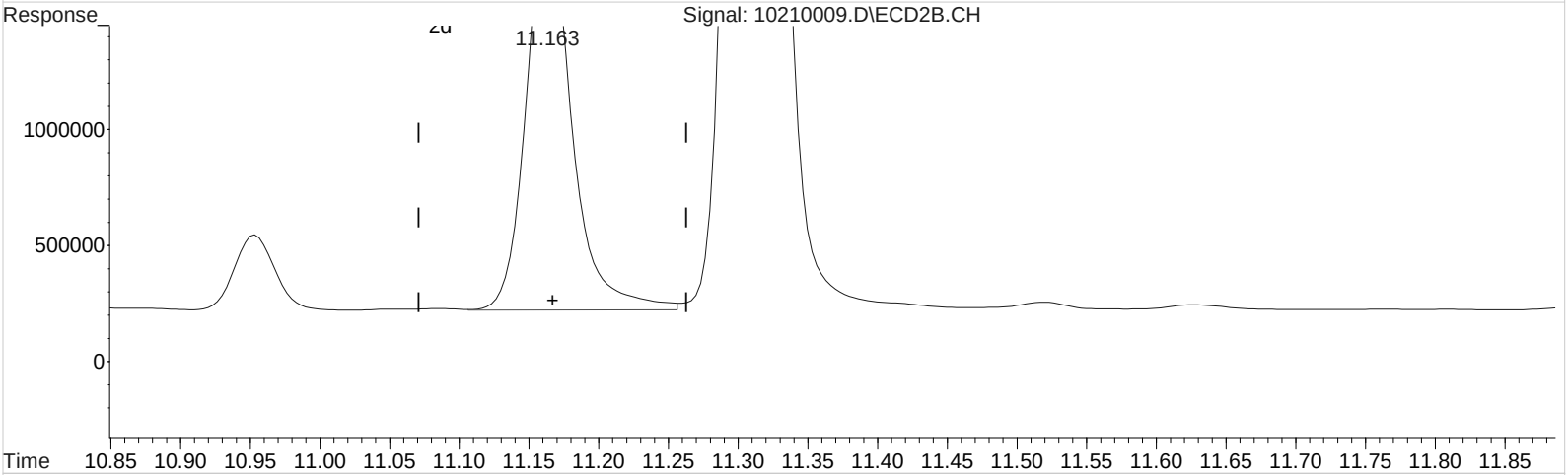
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(10) 2,4-DB (m)

11.283min 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

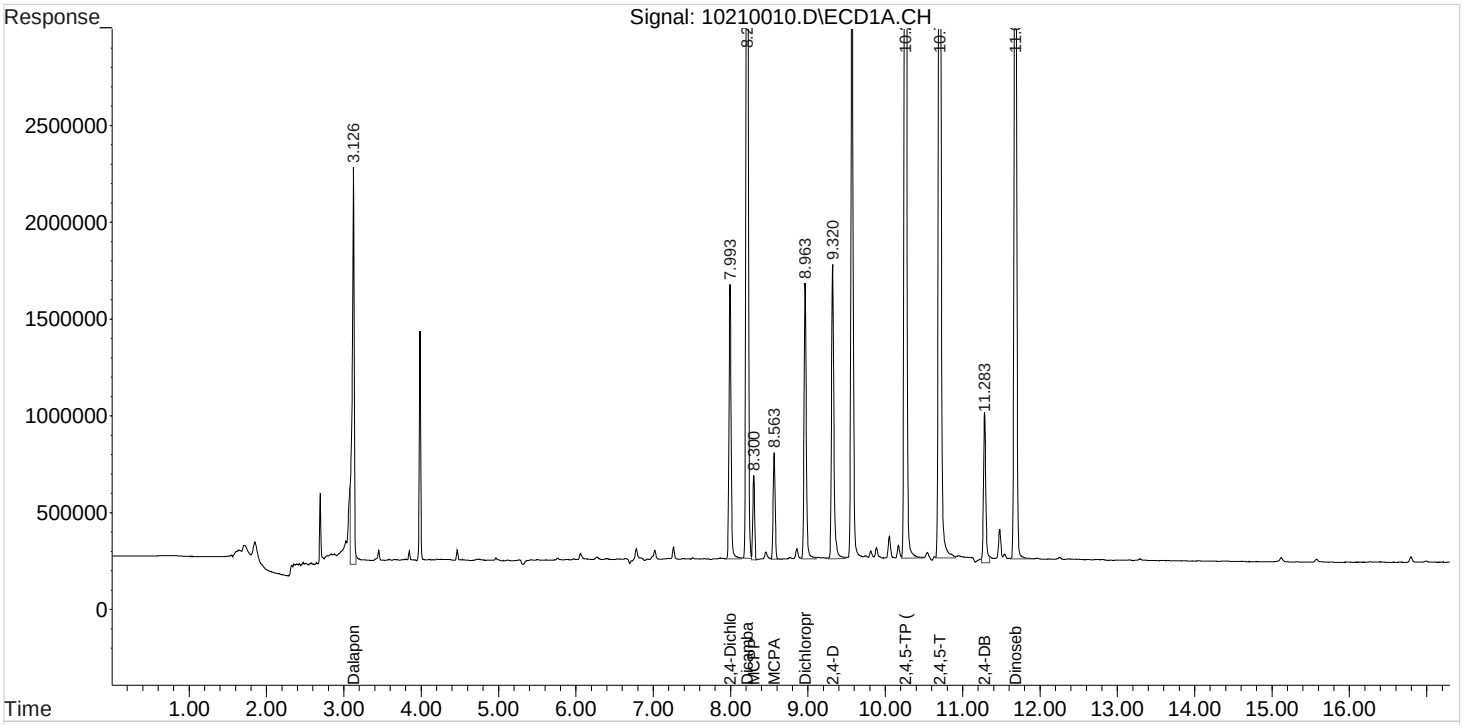
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

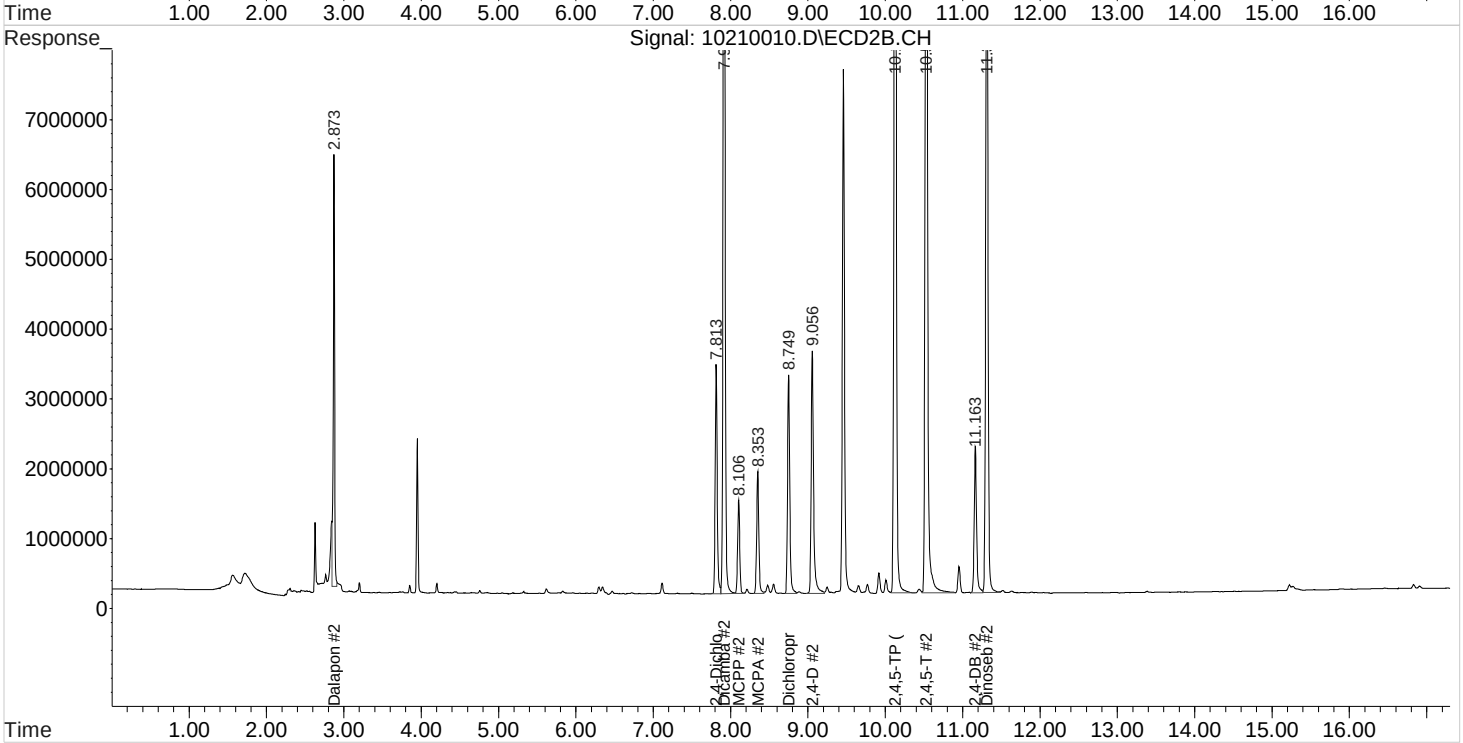
1st UA 10/21/20
2nd 10/22/20

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





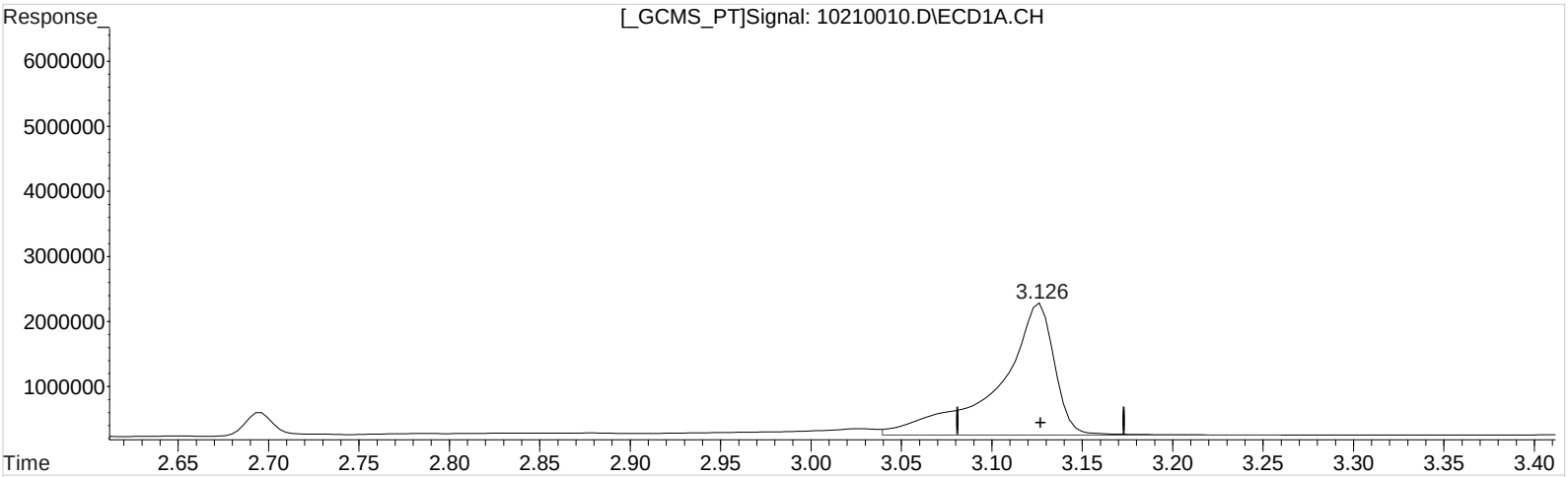
Quantitation Report (Qedit)

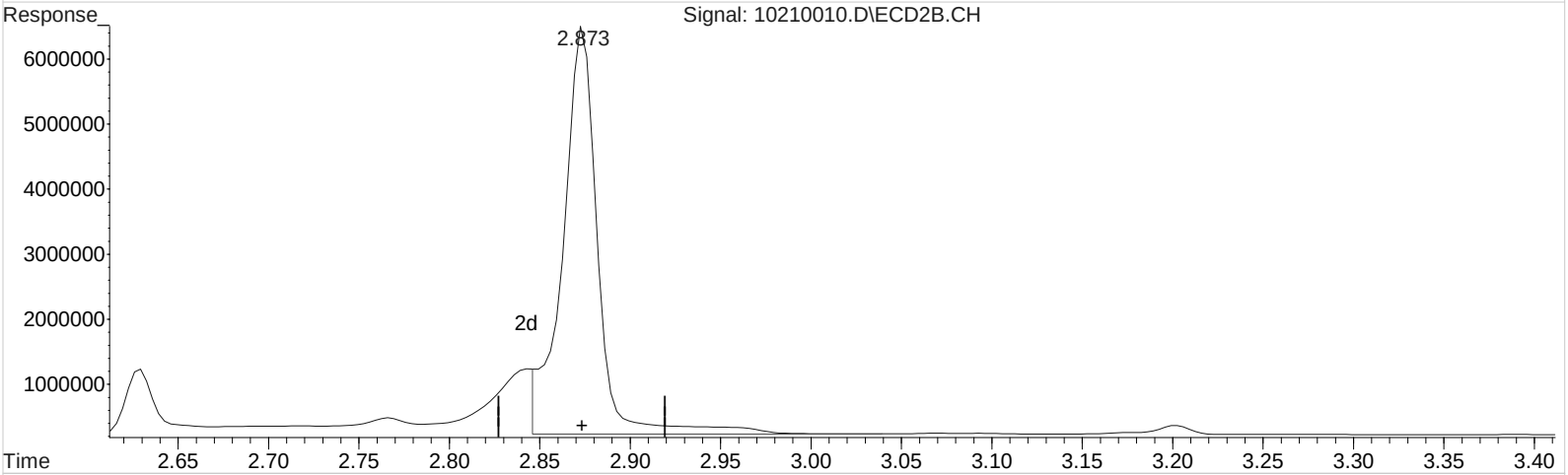
1st UA 10/21/20
2nd 10/22/20

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

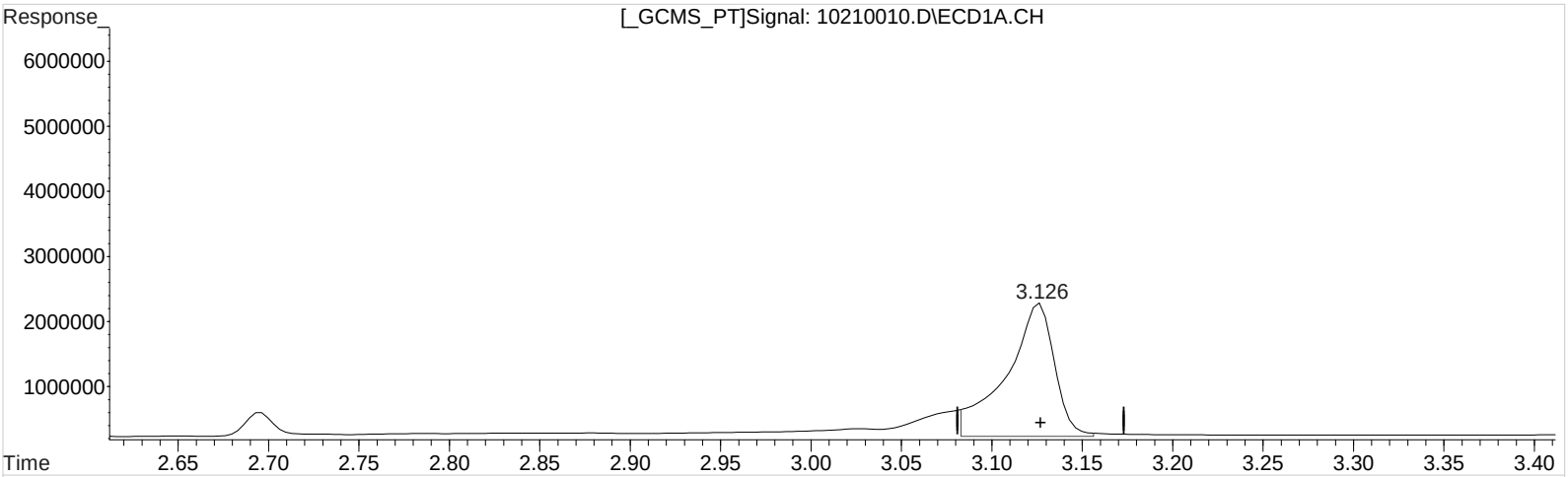
Quantitation Report (Qedit)

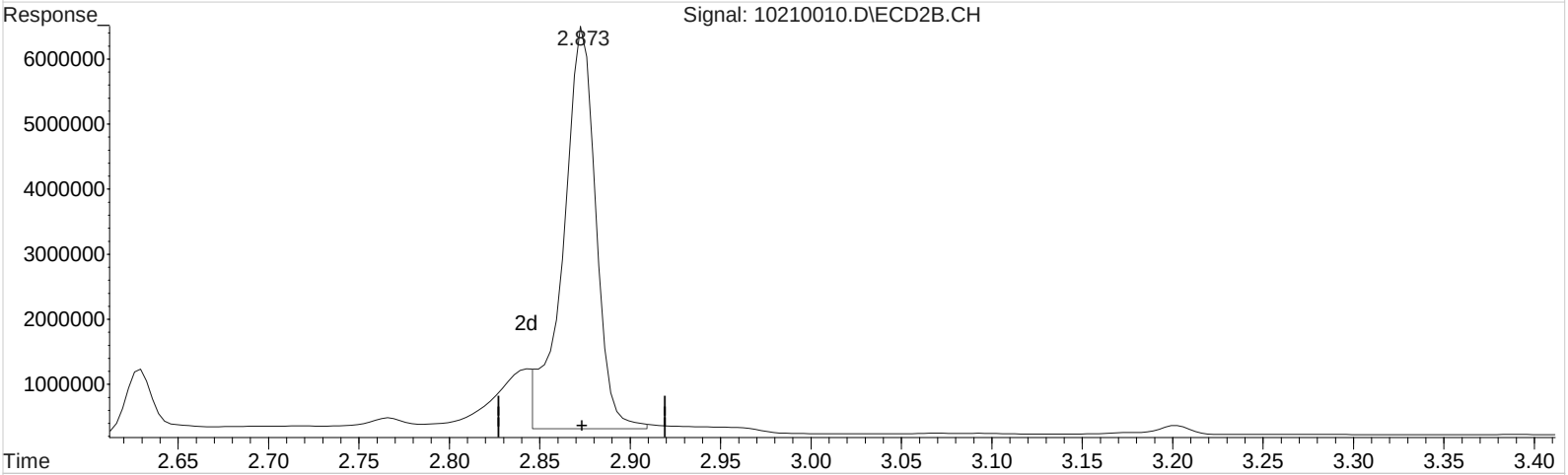
1st UA 10/21/20
2nd 10/22/20

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

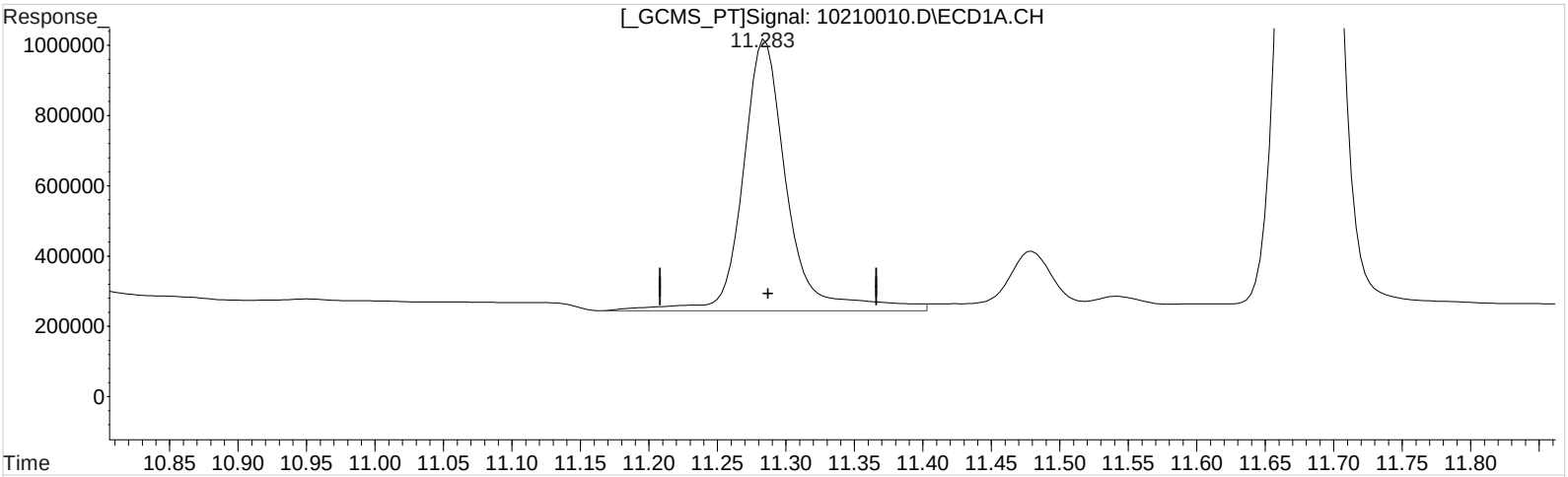
Quantitation Report (Qedit)

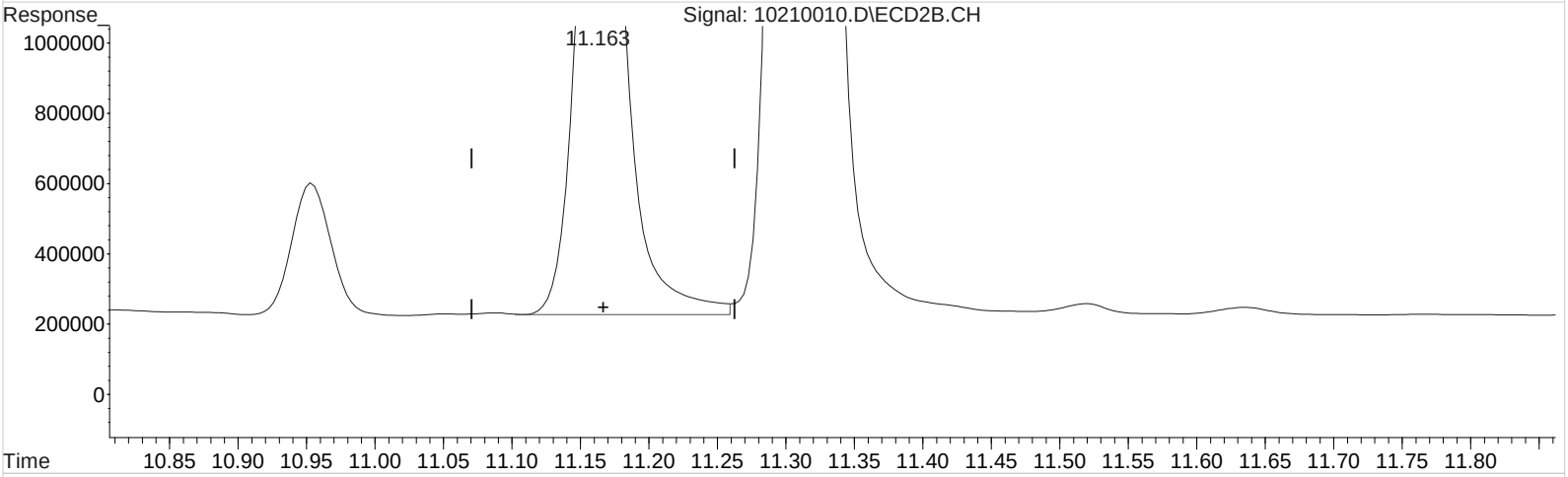
1st UA 10/21/20
2nd 10/22/20

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

Manual Integration:

Before

10/21/20

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

11.163min 163.801 ppb

response 4482448

(+) = Expected Retention Time

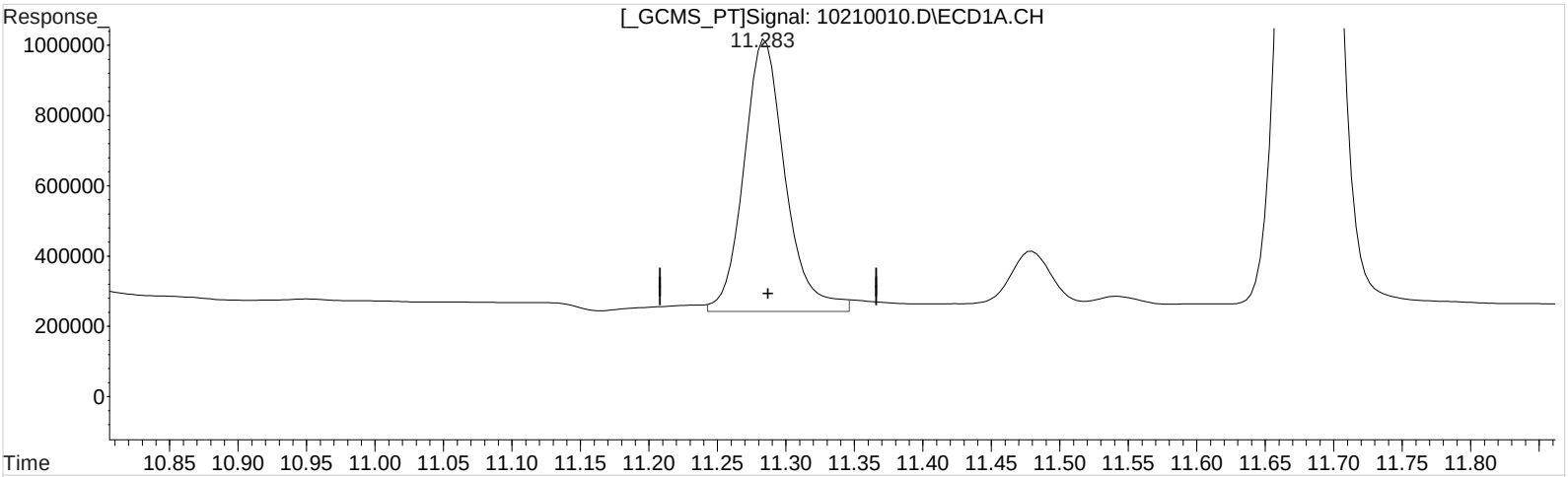
Quantitation Report (Qedit)

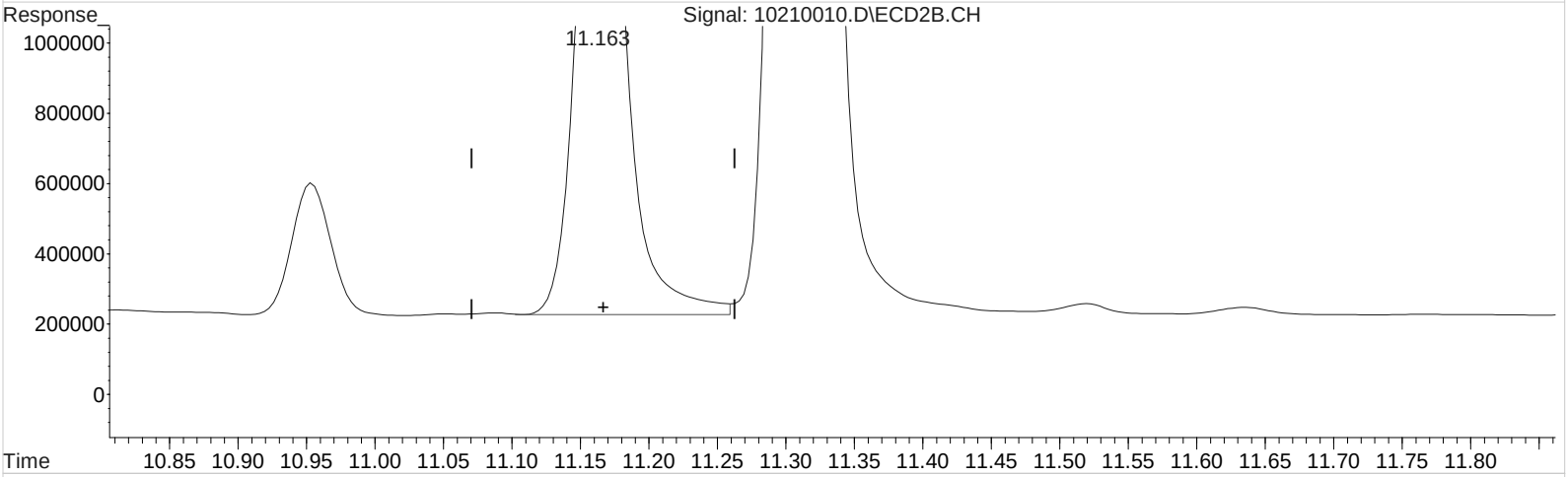
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(10) 2,4-DB (m)

11.283min 168.722 ppb m

response 1631284

Manual Integration:

After

Baseline/Shoulder

10/21/20

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

11.163min 163.801 ppb

response 4482448

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:09 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.991	7.814	3011902	6830371	167.857	172.784
	Target Compounds						
1) m	Dalapon	3.124	2.874	4166081	8620213	175.503m	186.129m
3) m	Dicamba	8.214	7.914	12614321	26816087	183.029	187.560
4) m	MCPP	8.298	8.104	844322	2817400	18845.702	16314.999
5) m	MCPA	8.564	8.351	1113618	3800297	18157.111	16358.900
6) m	Dichloroprop	8.964	8.751	3178809	7078599	175.122	179.686
7) m	2,4-D	9.321	9.057	3668350	8558209	178.402	179.541
8) m	2,4,5-TP ...	10.261	10.127	17460527	37116608	187.555	189.785
9) m	2,4,5-T	10.704	10.531	15065337	34693502	185.502	187.719
10) m	2,4-DB	11.288	11.167	1779525	5143484	179.055m	186.595
11) m	Dinoseb	11.684	11.317	11030037	24155457	182.888	185.603

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

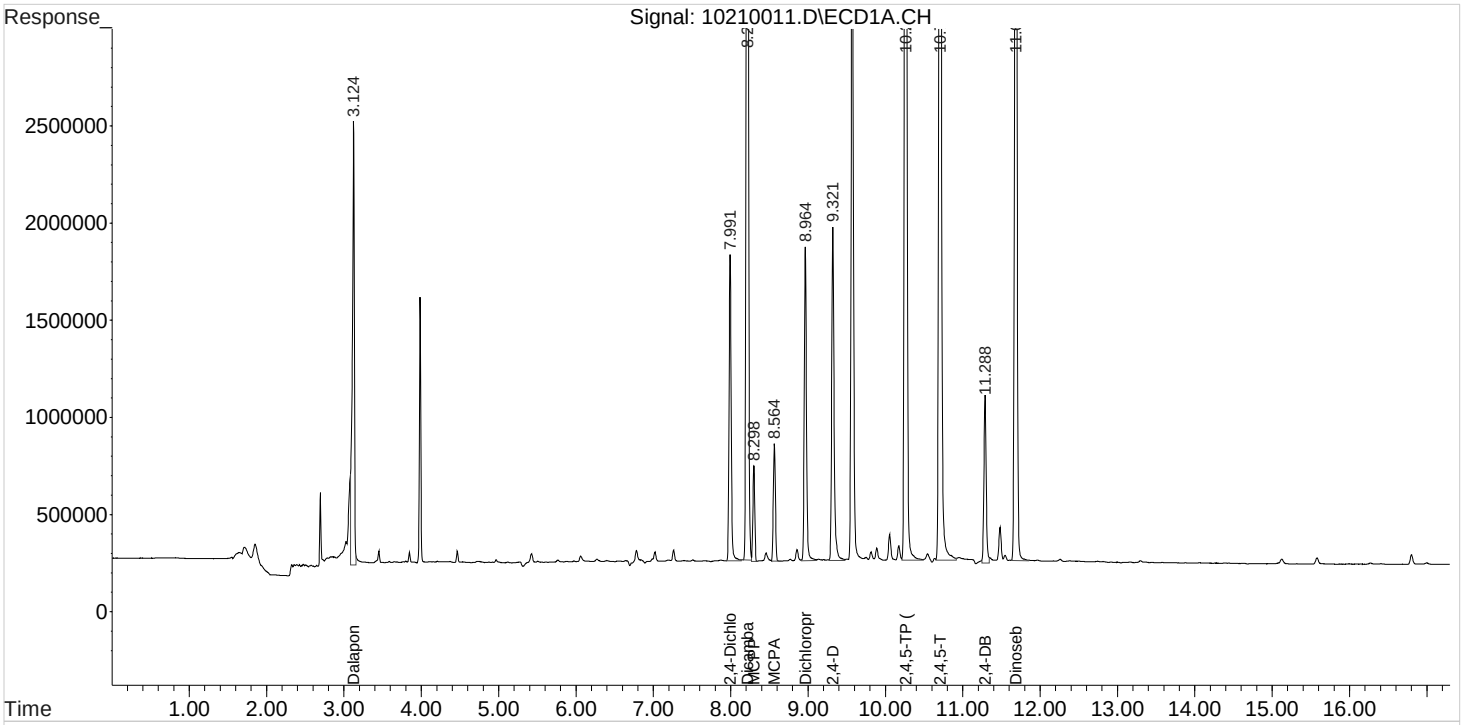
Quantitation Report (QT Reviewed)

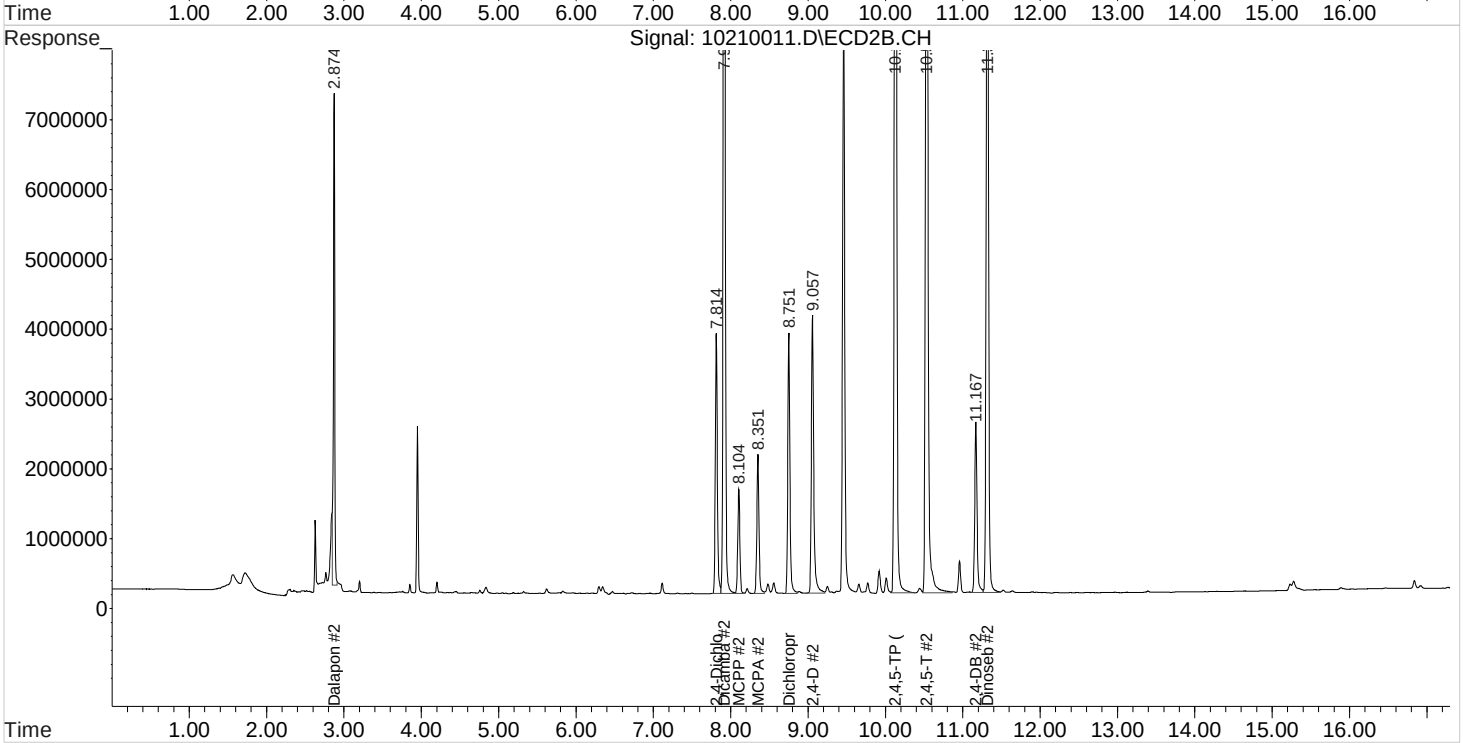
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:09 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





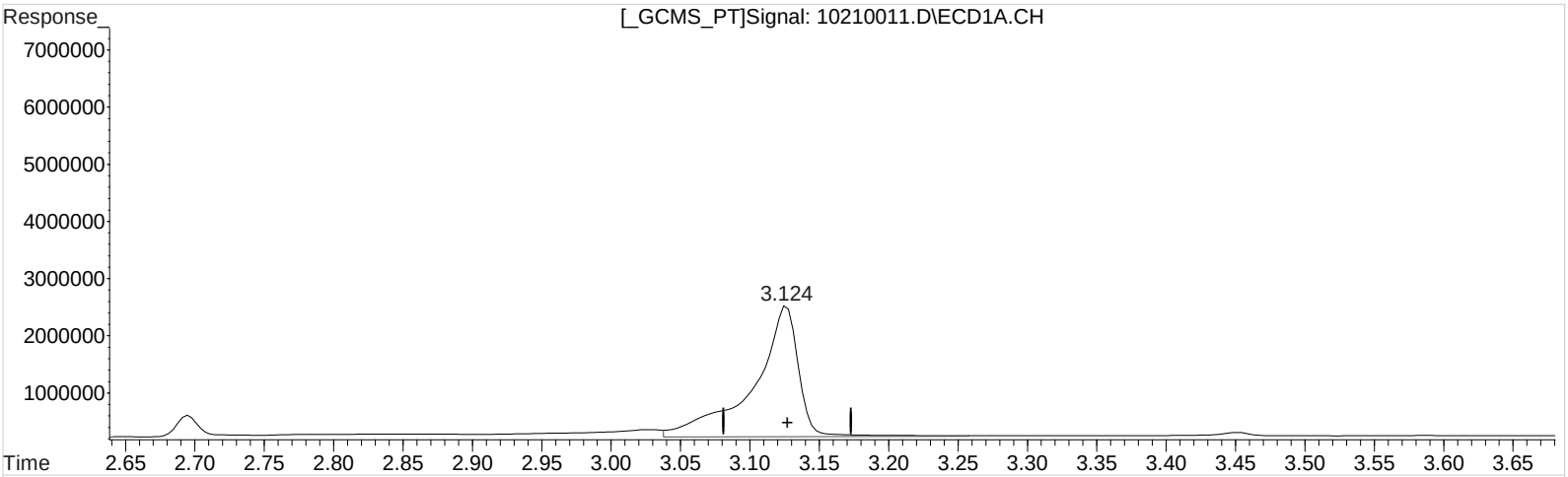
Quantitation Report (Qedit)

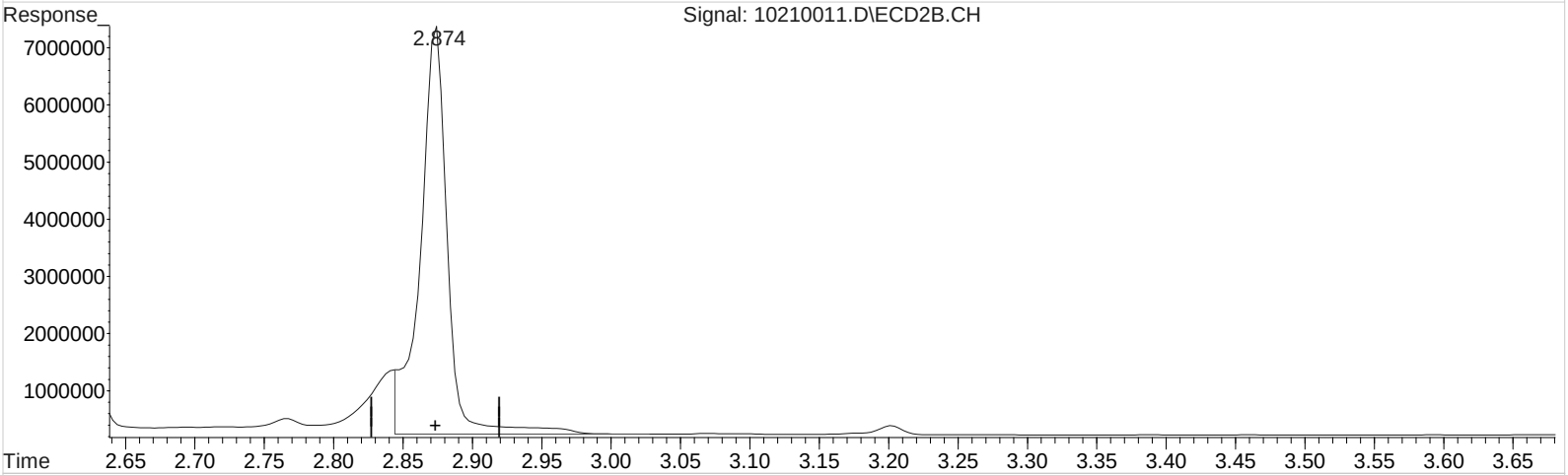
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(1) Dalapon (m)

3.124min 217.220 ppb

response 5156366

(1) Dalapon #2 (m)

2.874min 208.116 ppb

response 9638480

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

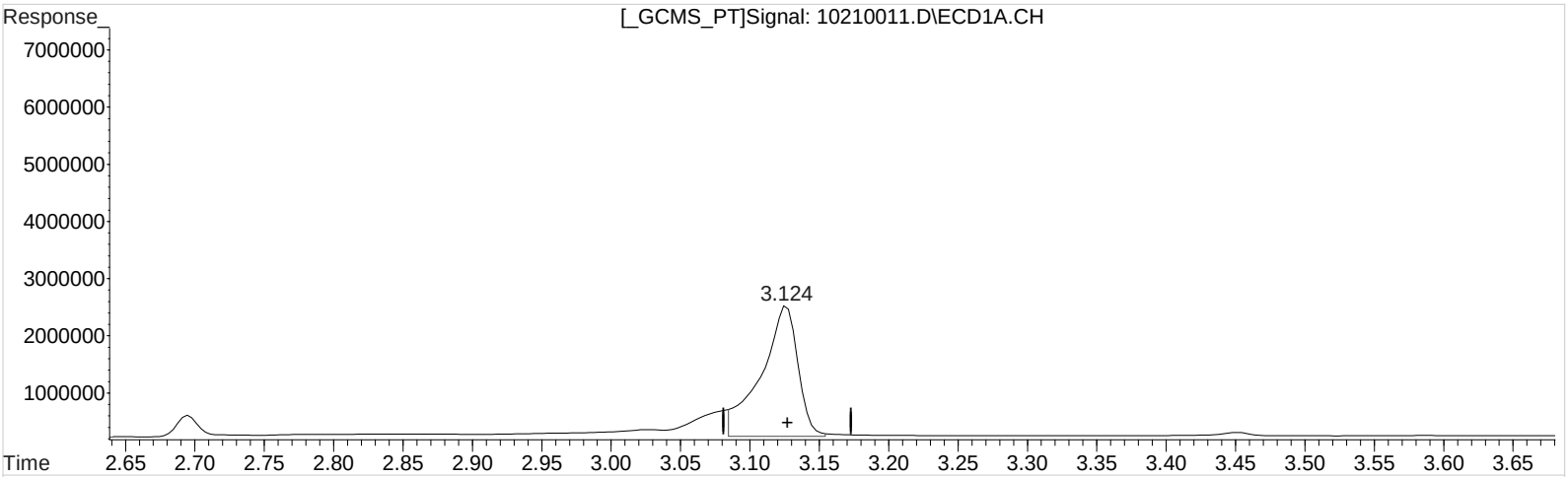
Quantitation Report (Qedit)

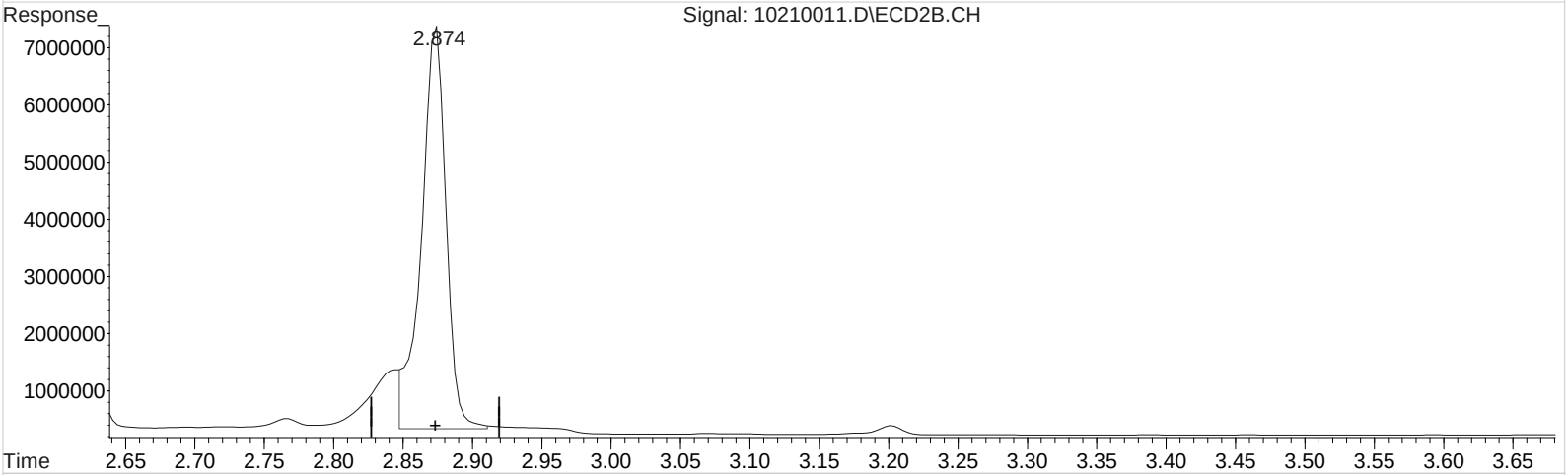
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(1) Dalapon (m)

3.124min 175.503 ppb m

response 4166081

(1) Dalapon #2 (m)

2.874min 186.129 ppb m

response 8620213

Manual Integration:

After

Baseline/Shoulder

10/21/20

(+) = Expected Retention Time

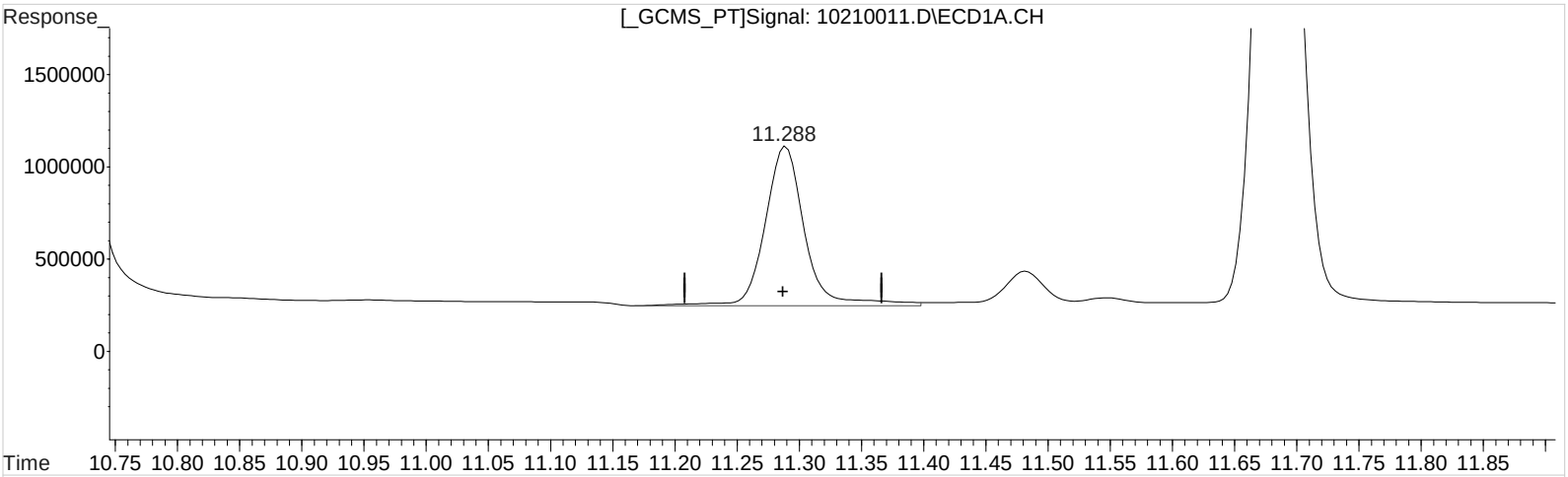
Quantitation Report (Qedit)

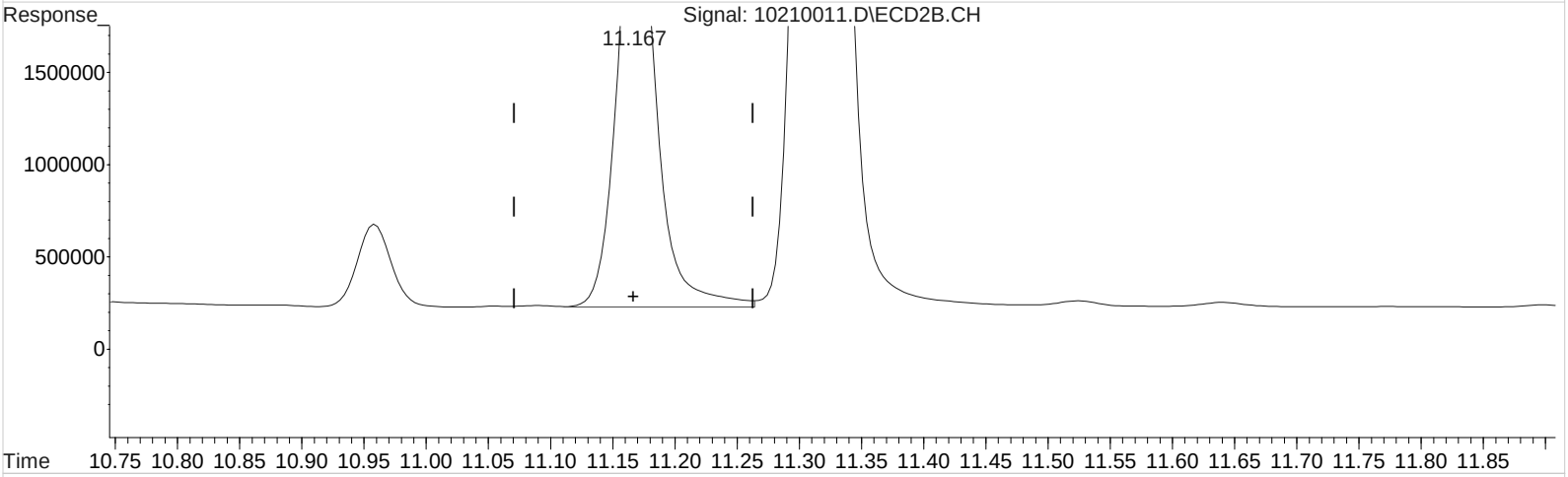
1st UA 10/21/20
2nd 10/22/20

Data File : J:\gc24\data\102120\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

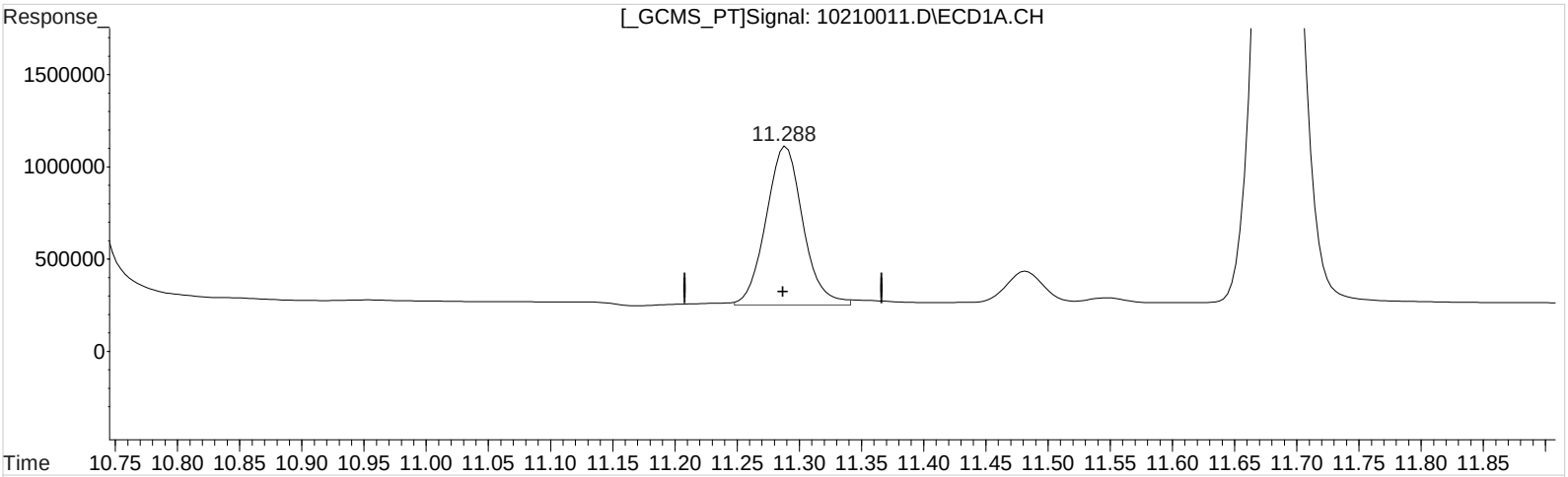
Quantitation Report (Qedit)

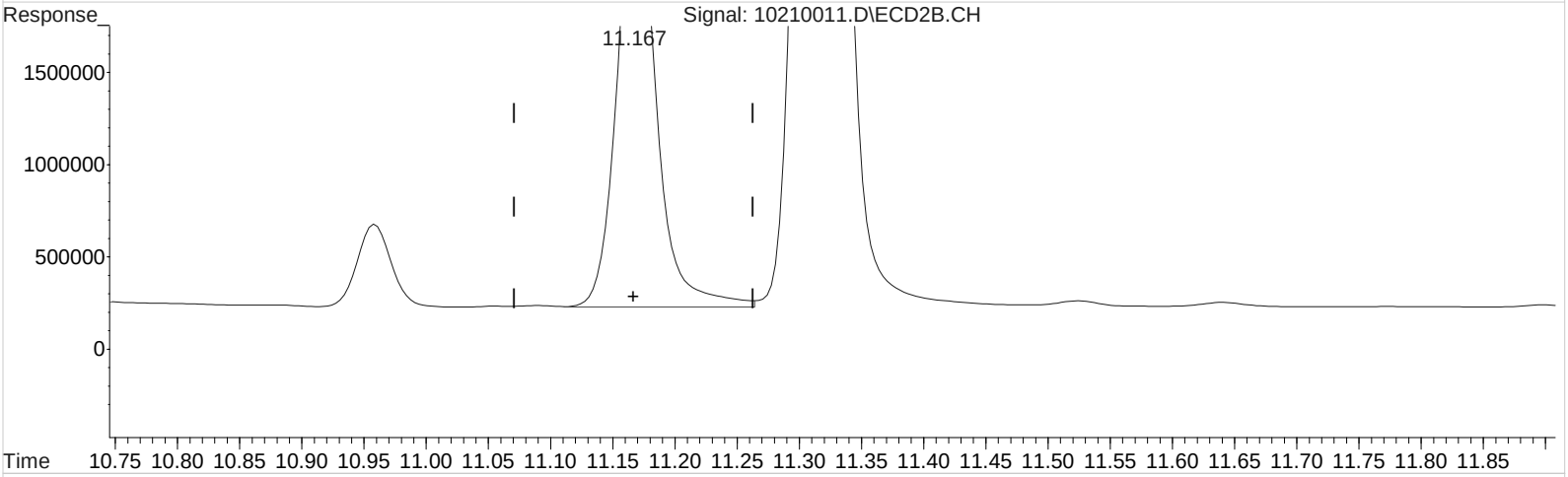
1st UA 10/21/20
2nd 10/22/20

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.

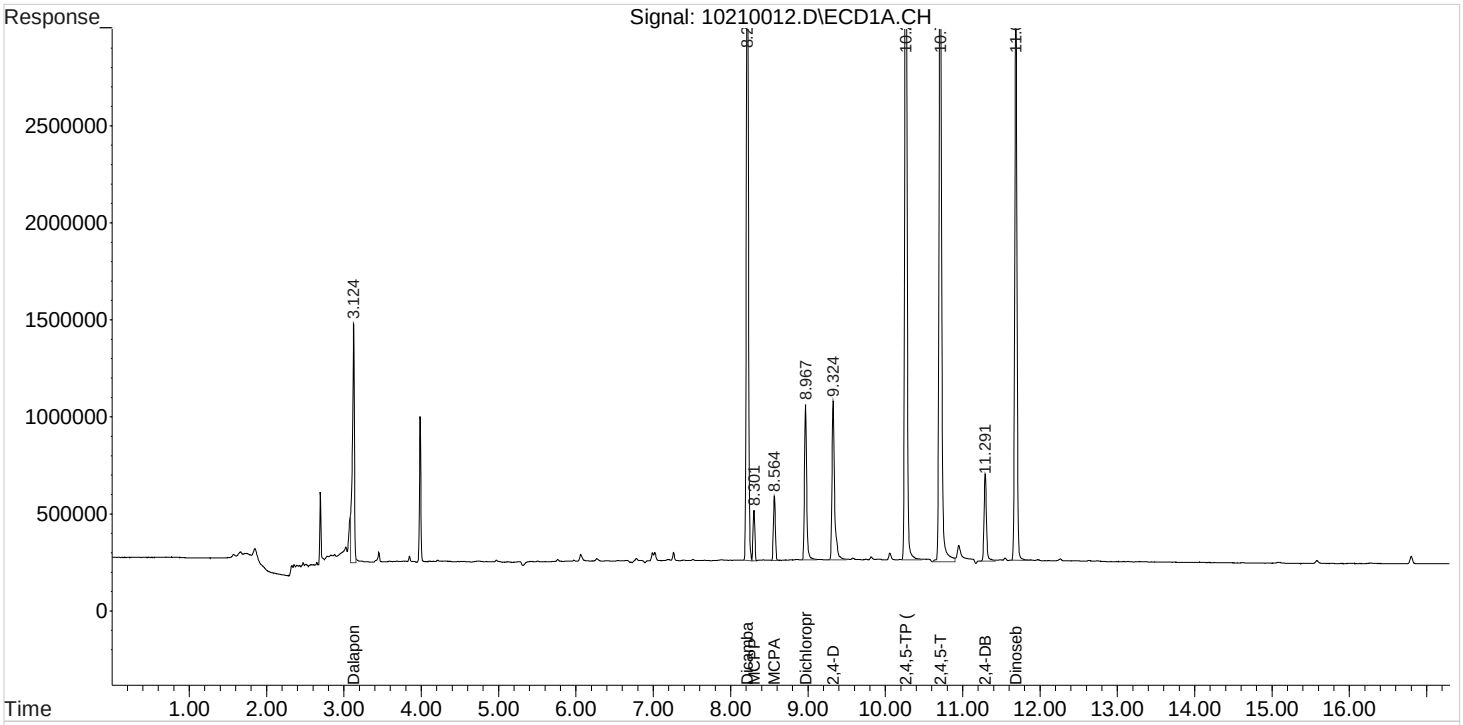
Quantitation Report (QT Reviewed)

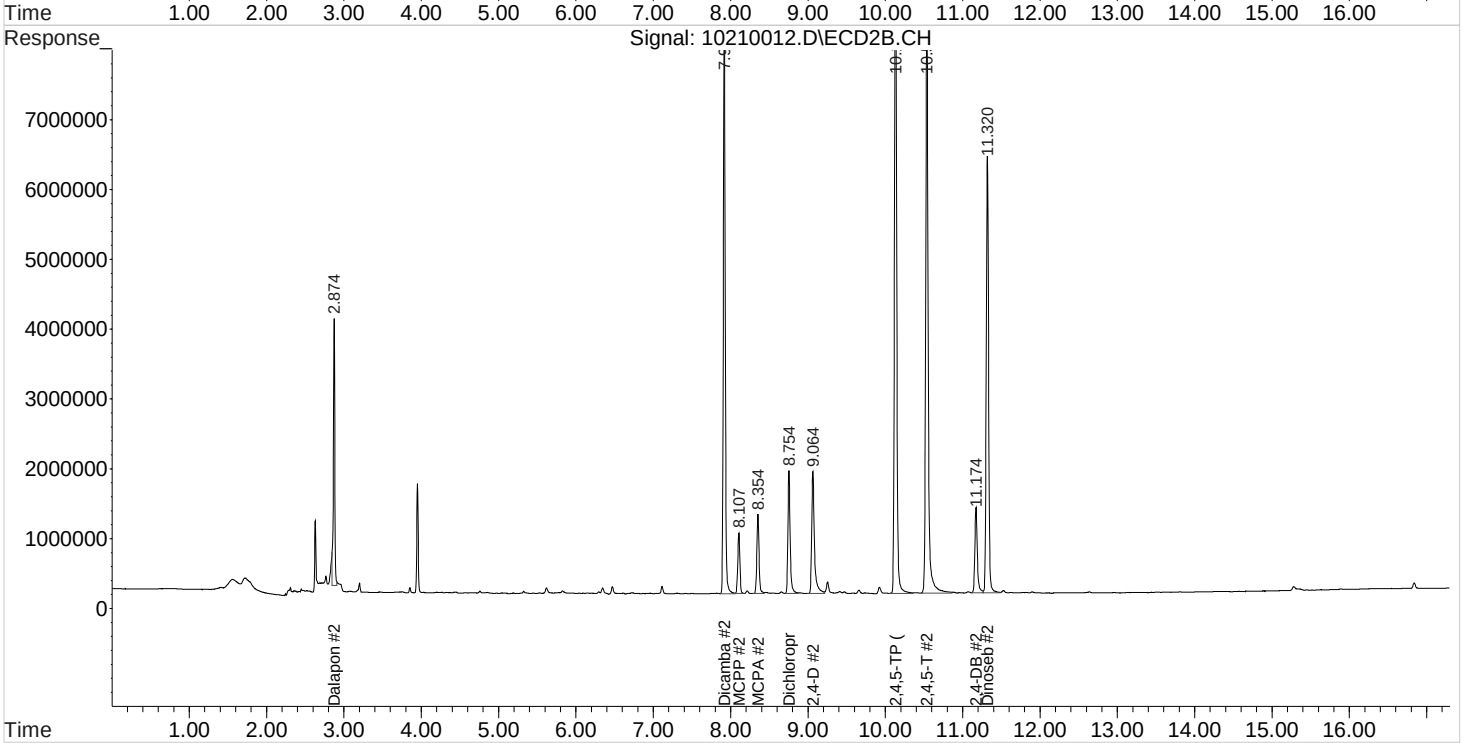
1st UA 10/21/20
2nd 10/22/20

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





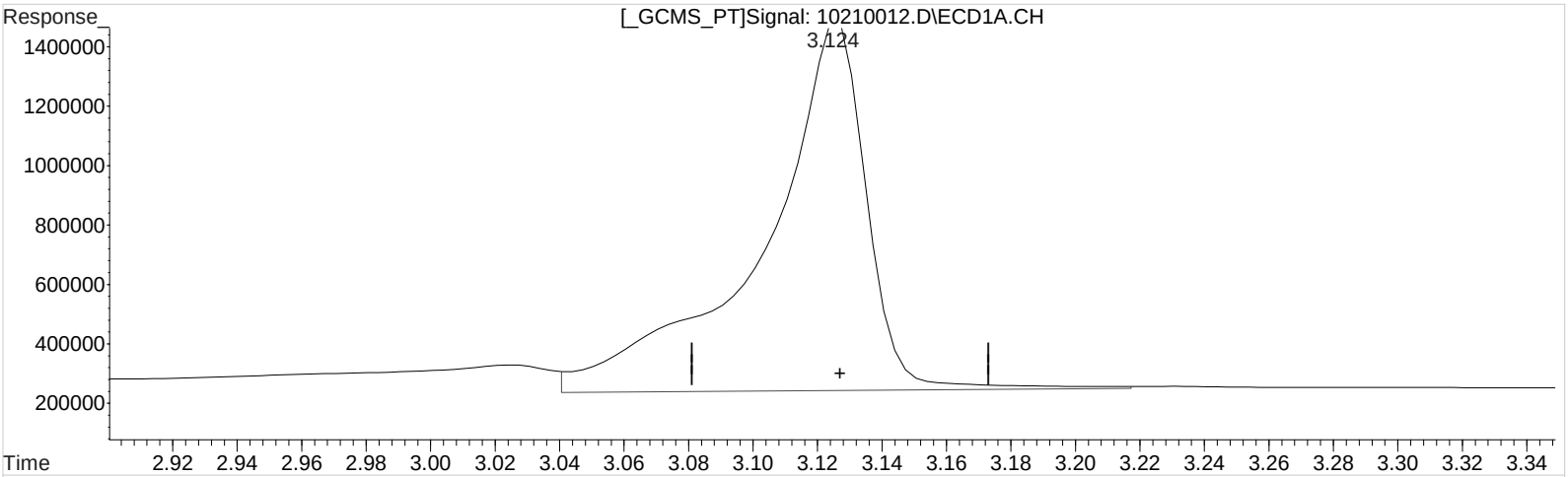
Quantitation Report (Qedit)

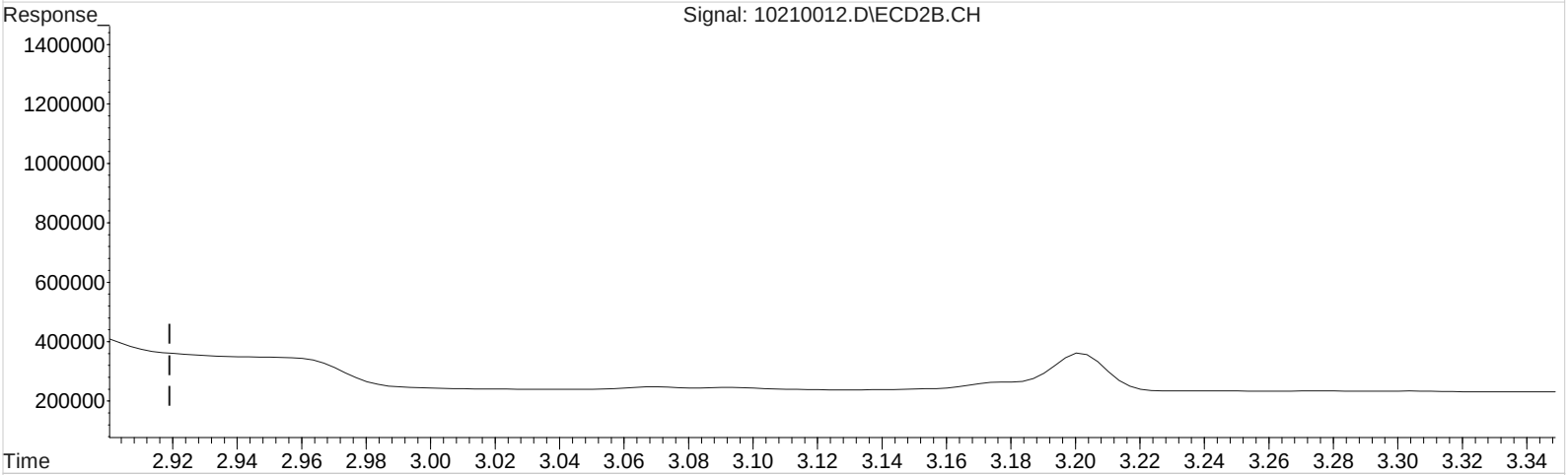
1st UA 10/21/20
2nd 10/22/20

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

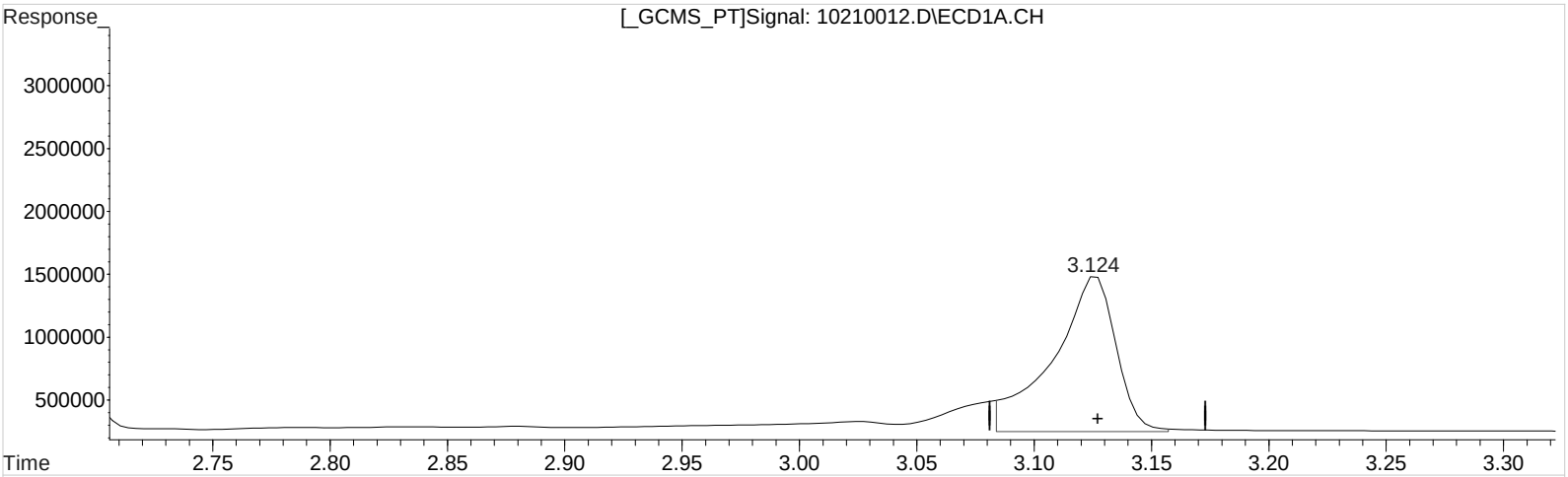
Quantitation Report (Qedit)

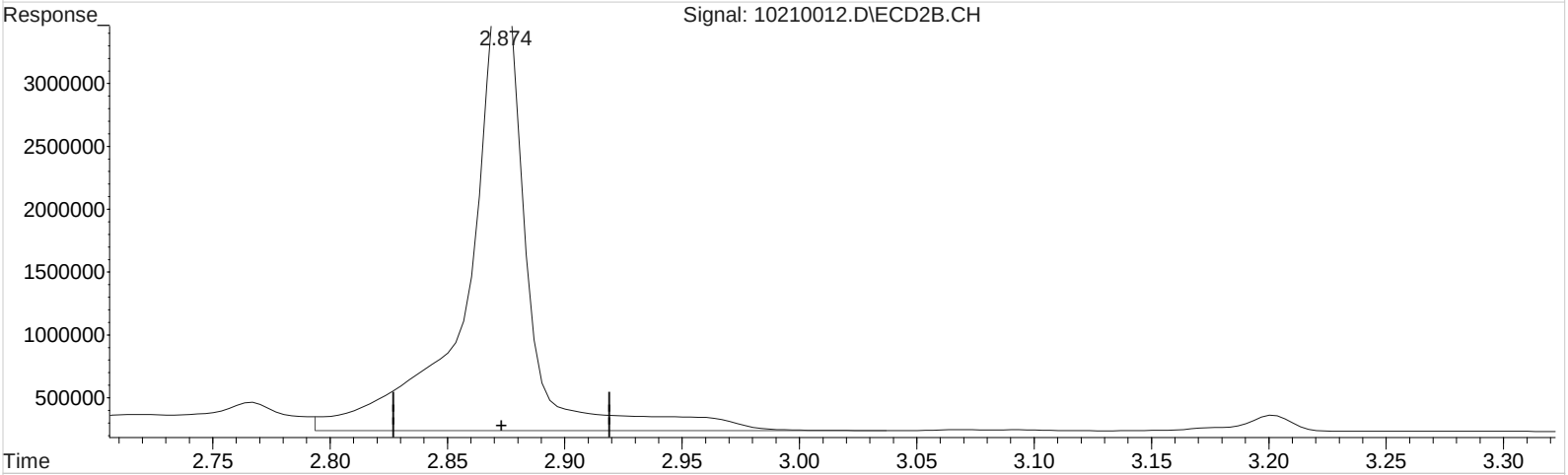
1st UA 10/21/20
2nd 10/22/20

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

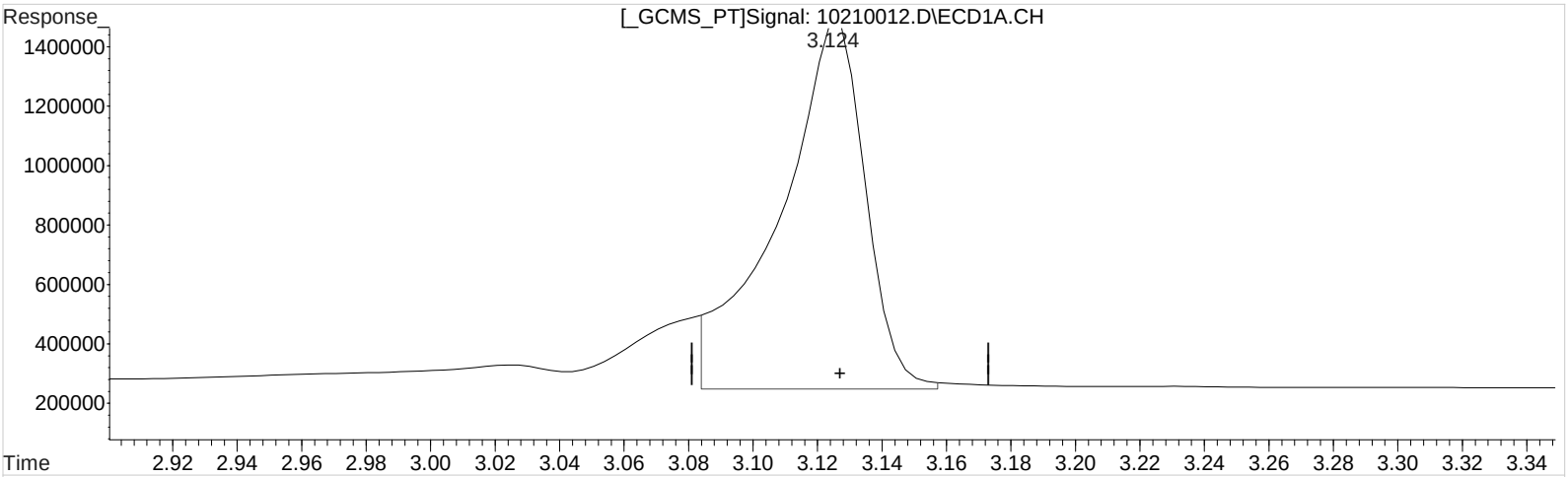
Quantitation Report (Qedit)

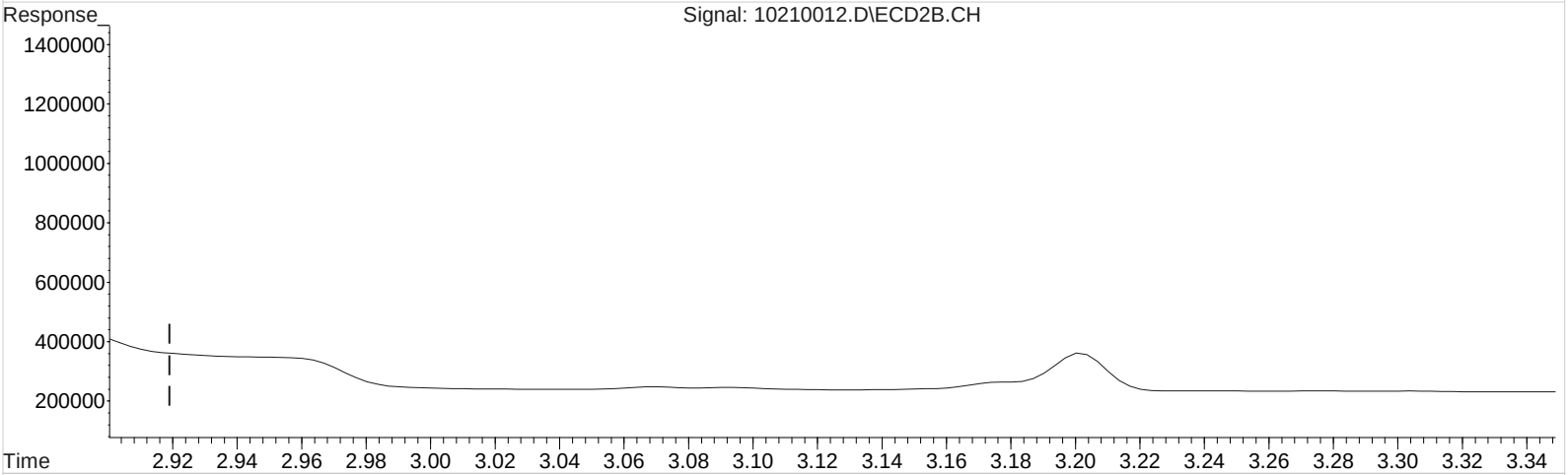
1st UA 10/21/20
2nd 10/22/20

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

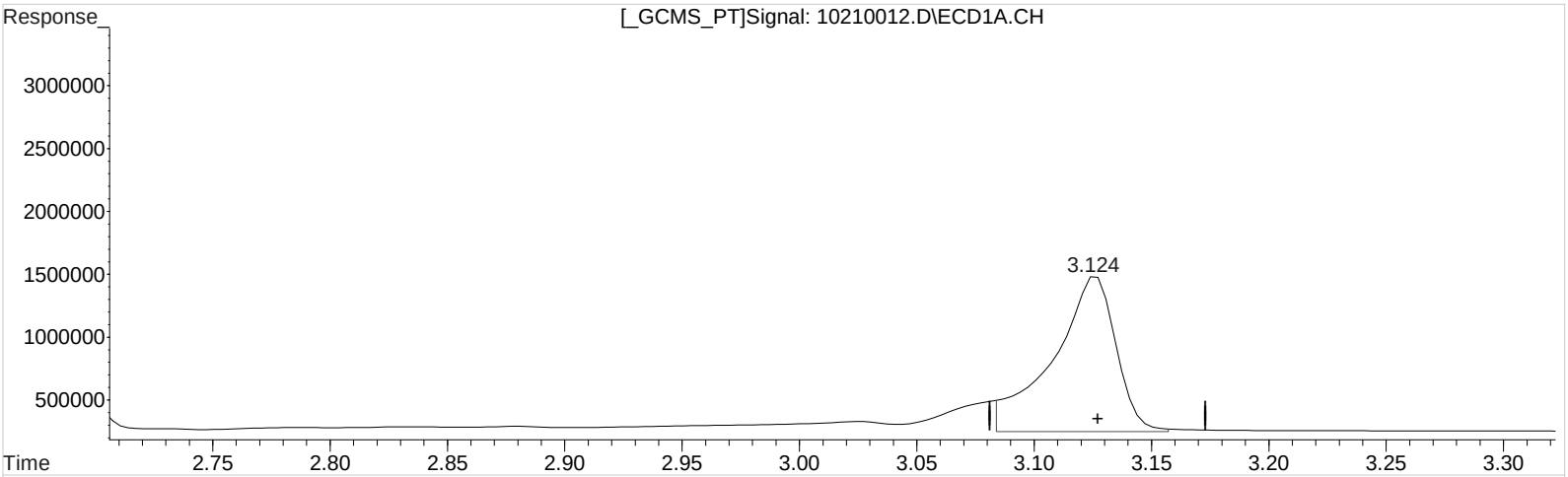
Quantitation Report (Qedit)

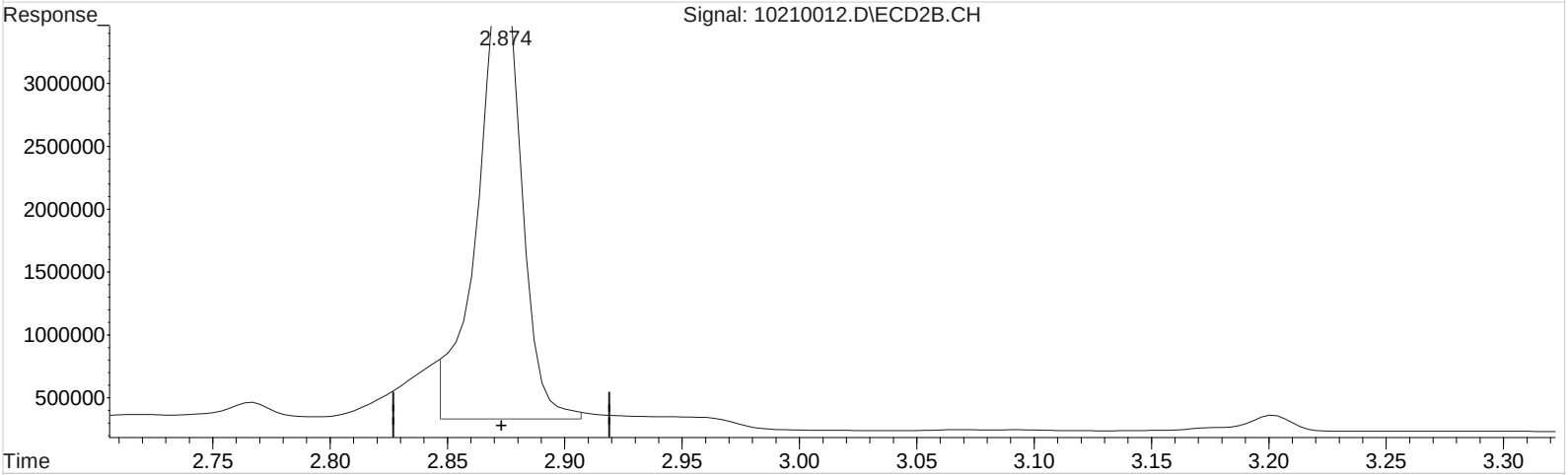
1st UA 10/21/20
2nd 10/22/20

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	12030001	F:01:01		CCV PRIMER
No	2	Vial 100	8151A-17	12030002	F:02:01		PRIMER
No	3	Vial 2	8151A-17	12030003	F:03:01		IB
No	4	Vial 1	8151A-17	12030004	F:04:01		PENTA2-14N 100PB
No	5	none	STANDBY	12030005	F:05:01		STANBY
No	6	Vial 3	8151A-17	12030006	F:06:01		KQ2019034-04MB
No	7	Vial 4	8151A-17	12030007	F:07:01		KQ2019034-03MB
No	8	Vial 5	8151A-17	12030008	F:08:01		KQ2019034-02DLCS
No	9	Vial 6	8151A-17	12030009	F:09:01		KQ2019034-01LCS
No	10	Vial 7	8151A-17	12030010	F:10:01		K2010034-003
No	11	Vial 10	8151A-17	12030011	F:11:01		K2010030-008
No	12	Vial 8	8151A-17	12030012	F:12:01		KQ2018682-004MB
No	13	Vial 9	8151A-17	12030013	F:13:01		KQ2018682-003LCS
No	14	Vial 11	8151A-17	12030014	F:14:01		K2010905-001
No	15	Vial 12	8151A-17	12030015	F:15:01		K2010030-08 5X
No	16	Vial 1	8151A-17	12030016	F:16:01		PENTA2-14N 100PB
No	17	Vial 2	8151A-17	12030017	F:17:01		IB
No	18	Vial 29	8151A-17	12030018	F:18:01		K2010905-002
No	19	Vial 13	8151A-17	12030019	F:19:01		K2010905-003
No	20	Vial 14	8151A-17	12030020	F:20:01		K2010905-004
No	21	Vial 15	8151A-17	12030021	F:21:01		K2010905-005
No	22	Vial 16	8151A-17	12030022	F:22:01		K2010905-006
No	23	Vial 17	8151A-17	12030023	F:23:01		K2010905-007
No	24	Vial 18	8151A-17	12030024	F:24:01		KQ2018682-01MS
No	25	Vial 19	8151A-17	12030025	F:25:01		KQ2018682-02DMS
No	26	Vial 20	8151A-17	12030026	F:26:01		KQ2018662-04MB
No	27	Vial 21	8151A-17	12030027	F:27:01		KQ2018662-03LCS
No	28	Vial 1	8151A-17	12030028	F:28:01		PENTA2-14N 100PB
No	29	Vial 2	8151A-17	12030029	F:29:01		IB
No	30	Vial 22	8151A-17	12030030	F:30:01		K2010688-001
No	31	Vial 23	8151A-17	12030031	F:31:01		K2010885-001
No	32	Vial 24	8151A-17	12030032	F:32:01		K2010885-002
No	33	Vial 25	8151A-17	12030033	F:33:01		K2010885-003
No	34	Vial 26	8151A-17	12030034	F:34:01		K2010885-004
No	35	Vial 27	8151A-17	12030035	F:35:01		KQ2018662-01MS
No	36	Vial 28	8151A-17	12030036	F:36:01		KQ2018662-02DMS
No	37	Vial 30	8151A-17	12030037	F:37:01		KQ2018343-04MB
No	38	Vial 31	8151A-17	12030038	F:38:01		KQ2018343-03LCS
No	39	Vial 32	8151A-17	12030039	F:39:01		K2010250-001
No	40	Vial 1	8151A-17	12030040	F:40:01		PENTA2-14N 100PB
No	41	Vial 2	8151A-17	12030041	F:41:01		IB
No	42	Vial 33	8151A-17	12030042	F:42:01		K2010250-002
No	43	Vial 34	8151A-17	12030043	F:43:01		K2010250-003
No	44	Vial 35	8151A-17	12030044	F:44:01		K2010250-004
No	45	Vial 36	8151A-17	12030045	F:45:01		K2001727-001
No	46	Vial 37	8151A-17	12030046	F:46:01		K2001727-002
No	47	Vial 38	8151A-17	12030047	F:47:01		K2001727-003
No	48	Vial 39	8151A-17	12030048	F:48:01		K2001727-004
No	49	Vial 40	8151A-17	12030049	F:49:01		K2001727-005
No	50	Vial 41	8151A-17	12030050	F:50:01		K2001727-006
No	51	Vial 42	8151A-17	12030051	F:51:01		K2001727-007
No	52	Vial 1	8151A-17	12030052	F:52:01		PENTA2-14N 100PB
No	53	Vial 2	8151A-17	12030053	F:53:01		IB
No	54	Vial 43	8151A-17	12030054	F:54:01		K2001727-008
No	55	Vial 44	8151A-17	12030055	F:55:01		K2001727-009
No	56	Vial 45	8151A-17	12030056	F:56:01		K2010728-021
No	57	Vial 46	8151A-17	12030057	F:57:01		K2010728-022
No	58	Vial 47	8151A-17	12030058	F:58:01		K2010728-023
No	59	Vial 48	8151A-17	12030059	F:59:01		KQ2018343-01MS
No	60	Vial 49	8151A-17	12030060	F:60:01		KQ2018343-02DMS
No	61	Vial 50	8151A-17	12030061	F:61:01		K2010638-001 5X
No	62	Vial 1	8151A-17	12030062	F:62:01		PENTA2-14N 100PB
No	63	Vial 2	8151A-17	12030063	F:63:01		IB
No	64	none	STANBY	12030064	F:64:01		STANBY

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 100	8151A-17	12030001	F:01:01		CCV PRIMER
No	2	Vial 100	8151A-17	12030002	F:02:01		PRIMER
No	3	Vial 2	8151A-17	12030003	F:03:01		IB
No	4	Vial 1	8151A-17	12030004	F:04:01		PENTA2-14N 100PB
No	5	none	STANDBY	12030005	F:05:01		STANBY
No	6	Vial 3	8151A-17	12030006	F:06:01		KQ2019034-04MB
No	7	Vial 4	8151A-17	12030007	F:07:01		KQ2019034-03MB
No	8	Vial 5	8151A-17	12030008	F:08:01		KQ2019034-02DLCS
No	9	Vial 6	8151A-17	12030009	F:09:01		KQ2019034-01LCS
No	10	Vial 7	8151A-17	12030010	F:10:01		K2010034-003
No	11	Vial 10	8151A-17	12030011	F:11:01		K2010030-008
No	12	Vial 8	8151A-17	12030012	F:12:01		KQ2018682-004MB
No	13	Vial 9	8151A-17	12030013	F:13:01		KQ2018682-003LCS
No	14	Vial 11	8151A-17	12030014	F:14:01		K2010905-001
No	15	Vial 12	8151A-17	12030015	F:15:01		K2010030-08 5X
No	16	Vial 1	8151A-17	12030016	F:16:01		PENTA2-14N 100PB
No	17	Vial 2	8151A-17	12030017	F:17:01		IB
No	18	Vial 29	8151A-17	12030018	F:18:01		K2010905-002
No	19	Vial 13	8151A-17	12030019	F:19:01		K2010905-003
No	20	Vial 14	8151A-17	12030020	F:20:01		K2010905-004
No	21	Vial 15	8151A-17	12030021	F:21:01		K2010905-005
No	22	Vial 16	8151A-17	12030022	F:22:01		K2010905-006
No	23	Vial 17	8151A-17	12030023	F:23:01		K2010905-007
No	24	Vial 18	8151A-17	12030024	F:24:01		KQ2018682-01MS
No	25	Vial 19	8151A-17	12030025	F:25:01		KQ2018682-02DMS
No	26	Vial 20	8151A-17	12030026	F:26:01		KQ2018662-04MB
No	27	Vial 21	8151A-17	12030027	F:27:01		KQ2018662-03LCS
No	28	Vial 1	8151A-17	12030028	F:28:01		PENTA2-14N 100PB
No	29	Vial 2	8151A-17	12030029	F:29:01		IB
No	30	Vial 22	8151A-17	12030030	F:30:01		K2010688-001
No	31	Vial 23	8151A-17	12030031	F:31:01		K2010885-001
No	32	Vial 24	8151A-17	12030032	F:32:01		K2010885-002
No	33	Vial 25	8151A-17	12030033	F:33:01		K2010885-003
No	34	Vial 26	8151A-17	12030034	F:34:01		K2010885-004
No	35	Vial 27	8151A-17	12030035	F:35:01		KQ2018662-01MS
No	36	Vial 28	8151A-17	12030036	F:36:01		KQ2018662-02DMS
No	37	Vial 30	8151A-17	12030037	F:37:01		KQ2018343-04MB
No	38	Vial 31	8151A-17	12030038	F:38:01		KQ2018343-03LCS
No	39	Vial 32	8151A-17	12030039	F:39:01		K2010250-001
No	40	Vial 1	8151A-17	12030040	F:40:01		PENTA2-14N 100PB
No	41	Vial 2	8151A-17	12030041	F:41:01		IB
No	42	Vial 33	8151A-17	12030042	F:42:01		K2010250-002
No	43	Vial 34	8151A-17	12030043	F:43:01		K2010250-003
No	44	Vial 35	8151A-17	12030044	F:44:01		K2010250-004
No	45	Vial 36	8151A-17	12030045	F:45:01		K2001727-001
No	46	Vial 37	8151A-17	12030046	F:46:01		K2001727-002
No	47	Vial 38	8151A-17	12030047	F:47:01		K2001727-003
No	48	Vial 39	8151A-17	12030048	F:48:01		K2001727-004
No	49	Vial 40	8151A-17	12030049	F:49:01		K2001727-005
No	50	Vial 41	8151A-17	12030050	F:50:01		K2001727-006
No	51	Vial 42	8151A-17	12030051	F:51:01		K2001727-007
No	52	Vial 1	8151A-17	12030052	F:52:01		PENTA2-14N 100PB
No	53	Vial 2	8151A-17	12030053	F:53:01		IB
No	54	Vial 43	8151A-17	12030054	F:54:01		K2001727-008
No	55	Vial 44	8151A-17	12030055	F:55:01		K2001727-009
No	56	Vial 45	8151A-17	12030056	F:56:01		K2010728-021
No	57	Vial 46	8151A-17	12030057	F:57:01		K2010728-022
No	58	Vial 47	8151A-17	12030058	F:58:01		K2010728-023
No	59	Vial 48	8151A-17	12030059	F:59:01		KQ2018343-01MS
No	60	Vial 49	8151A-17	12030060	F:60:01		KQ2018343-02DMS
No	61	Vial 50	8151A-17	12030061	F:61:01		K2010638-001 5X
No	62	Vial 1	8151A-17	12030062	F:62:01		PENTA2-14N 100PB
No	63	Vial 2	8151A-17	12030063	F:63:01		IB
No	64	none	STANDBY	12030064	F:64:01		STANBY