

Cover Page

Order ID : Q1382

Project ID : Raymark Superfund Site

Client : Nobis Group

Lab Sample Number

Q1382-01
Q1382-02
Q1382-03
Q1382-04
Q1382-05
Q1382-06
Q1382-07
Q1382-08
Q1382-09
Q1382-10
Q1382-11
Q1382-12
Q1382-13
Q1382-14
Q1382-15
Q1382-16
Q1382-17
Q1382-18
Q1382-19
Q1382-20

Client Sample Number

OU4-PCS-TC-01-021725
OU4-PCS-TC-01-021725
OU4-PCS-TC-02-021725
OU4-PCS-TC-02-021725
OU4-PCS-TC-03-021725
OU4-PCS-TC-03-021725
OU4-PCS-TC-04-021725
OU4-PCS-TC-04-021725
OU4-PCS-TC-05-021725
OU4-PCS-TC-05-021725
OU4-PCS-TC-06-021725
OU4-PCS-TC-06-021725
OU4-PCS-TC-07-021725
OU4-PCS-TC-07-021725
OU4-PCS-TC-08-021725
OU4-PCS-TC-08-021725
OU4-PCS-TC-09-021725
OU4-PCS-TC-09-021725
OU4-PCS-TC-10-021725
OU4-PCS-TC-10-021725

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 2/24/2025

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1382

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAYUR DESAI

Date: 02/24/2025

LAB CHRONICLE

OrderID:	Q1382	OrderDate:	2/18/2025 10:57:00 AM
Client:	Nobis Group	Project:	Raymark Superfund Site
Contact:	Adam Roy	Location:	H31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1382-01	OU4-PCS-TC-01-0217 25	SOIL			02/17/25			02/18/25
			Herbicide Group1	8151A		02/18/25	02/19/25	
			PCB	8082A		02/19/25	02/19/25	
			Pesticide-TCL	8081B		02/19/25	02/19/25	
Q1382-03	OU4-PCS-TC-02-0217 25	SOIL			02/17/25			02/18/25
			Herbicide Group1	8151A		02/18/25	02/19/25	
			PCB	8082A		02/19/25	02/19/25	
			Pesticide-TCL	8081B		02/19/25	02/19/25	
Q1382-03RE	OU4-PCS-TC-02-0217 25RE	SOIL			02/17/25			02/18/25
			PCB	8082A		02/19/25	02/20/25	
Q1382-05	OU4-PCS-TC-03-0217 25	SOIL			02/17/25			02/18/25
			Herbicide Group1	8151A		02/18/25	02/19/25	
			PCB	8082A		02/19/25	02/19/25	
			Pesticide-TCL	8081B		02/19/25	02/19/25	
Q1382-05RE	OU4-PCS-TC-03-0217 25RE	SOIL			02/17/25			02/18/25
			PCB	8082A		02/19/25	02/20/25	
Q1382-07	OU4-PCS-TC-04-0217 25	SOIL			02/17/25			02/18/25
			Herbicide Group1	8151A		02/18/25	02/19/25	
			PCB	8082A		02/19/25	02/19/25	
			Pesticide-TCL	8081B		02/19/25	02/19/25	
Q1382-07RE	OU4-PCS-TC-04-0217 25RE	SOIL			02/17/25			02/18/25

LAB CHRONICLE

			PCB	8082A	02/19/25	02/20/25	
Q1382-09	OU4-PCS-TC-05-0217	SOIL			02/17/25		02/18/25
	25		Herbicide Group1	8151A	02/18/25	02/19/25	
			PCB	8082A	02/19/25	02/21/25	
			Pesticide-TCL	8081B	02/19/25	02/19/25	
Q1382-11	OU4-PCS-TC-06-0217	SOIL			02/17/25		02/18/25
	25		Herbicide Group1	8151A	02/18/25	02/26/25	
			PCB	8082A	02/19/25	02/19/25	
			Pesticide-TCL	8081B	02/19/25	02/19/25	
Q1382-11RE	OU4-PCS-TC-06-0217	SOIL			02/17/25		02/18/25
	25RE		PCB	8082A	02/19/25	02/20/25	
Q1382-13	OU4-PCS-TC-07-0217	SOIL			02/17/25		02/18/25
	25		Herbicide Group1	8151A	02/18/25	02/26/25	
			PCB	8082A	02/19/25	02/19/25	
			Pesticide-TCL	8081B	02/19/25	02/19/25	
Q1382-15	OU4-PCS-TC-08-0217	SOIL			02/17/25		02/18/25
	25		Herbicide Group1	8151A	02/18/25	02/26/25	
			PCB	8082A	02/19/25	02/19/25	
			Pesticide-TCL	8081B	02/19/25	02/19/25	
Q1382-17	OU4-PCS-TC-09-0217	SOIL			02/17/25		02/18/25
	25		Herbicide Group1	8151A	02/18/25	02/26/25	
			PCB	8082A	02/19/25	02/19/25	
			Pesticide-TCL	8081B	02/19/25	02/19/25	
Q1382-19	OU4-PCS-TC-10-0217	SOIL			02/17/25		02/18/25
	25		Herbicide Group1	8151A	02/18/25	02/26/25	
			PCB	8082A	02/19/25	02/19/25	
			Pesticide-TCL	8081B	02/19/25	02/19/25	

LAB CHRONICLE

Q1382-19RE

**OU4-PCS-TC-10-0217
25RE**

SOIL

02/17/25

02/18/25

PCB

8082A

02/19/25

02/20/25



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1382

Order ID: Q1382

Client: Nobis Group

Project ID: Raymark Superfund Site

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units

Client ID :

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: Q1382

Client: Nobis Group

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS029190.D	PIBLK-PS029190.D	2,4-DCAA	1	500	492	98		32	138
		2,4-DCAA	2	500	499	100		32	138
I.BLK-PS029206.D	PIBLK-PS029206.D	2,4-DCAA	1	500	487	97		32	138
		2,4-DCAA	2	500	507	101		32	138
PB166763BL	PB166763BL	2,4-DCAA	1	500	466	93		27	122
		2,4-DCAA	2	500	475	95		27	122
PB166763BS	PB166763BS	2,4-DCAA	1	500	516	103		27	122
		2,4-DCAA	2	500	523	105		27	122
Q1372-01MS	AU-05-021425MS	2,4-DCAA	1	500	203	41		27	122
		2,4-DCAA	2	500	144	29		27	122
Q1372-01MSD	AU-05-021425MSD	2,4-DCAA	1	500	202	40		27	122
		2,4-DCAA	2	500	136	27		27	122
Q1382-01	OU4-PCS-TC-01-021725	2,4-DCAA	1	500	417	83		27	122
		2,4-DCAA	2	500	361	72		27	122
Q1382-03	OU4-PCS-TC-02-021725	2,4-DCAA	1	500	434	87		27	122
		2,4-DCAA	2	500	403	81		27	122
Q1382-05	OU4-PCS-TC-03-021725	2,4-DCAA	1	500	433	87		27	122
		2,4-DCAA	2	500	383	77		27	122
Q1382-07	OU4-PCS-TC-04-021725	2,4-DCAA	1	500	380	76		27	122
		2,4-DCAA	2	500	366	73		27	122
Q1382-09	OU4-PCS-TC-05-021725	2,4-DCAA	1	500	420	84		27	122
		2,4-DCAA	2	500	416	83		27	122
I.BLK-PS029218.D	PIBLK-PS029218.D	2,4-DCAA	1	500	438	88		32	138
		2,4-DCAA	2	500	500	100		32	138
I.BLK-PS029233.D	PIBLK-PS029233.D	2,4-DCAA	1	500	476	95		32	138
		2,4-DCAA	2	500	494	99		32	138
I.BLK-PS029290.D	PIBLK-PS029290.D	2,4-DCAA	1	500	522	104		32	138
		2,4-DCAA	2	500	511	102		32	138
Q1382-11	OU4-PCS-TC-06-021725	2,4-DCAA	1	500	443	89		27	122
		2,4-DCAA	2	500	453	91		27	122
Q1382-13	OU4-PCS-TC-07-021725	2,4-DCAA	1	500	521	104		27	122
		2,4-DCAA	2	500	553	111		27	122
Q1382-15	OU4-PCS-TC-08-021725	2,4-DCAA	1	500	550	110		27	122
		2,4-DCAA	2	500	562	112		27	122
Q1382-17	OU4-PCS-TC-09-021725	2,4-DCAA	1	500	539	108		27	122
		2,4-DCAA	2	500	528	106		27	122
Q1382-19	OU4-PCS-TC-10-021725	2,4-DCAA	1	500	502	100		27	122
		2,4-DCAA	2	500	476	95		27	122
I.BLK-PS029302.D	PIBLK-PS029302.D	2,4-DCAA	1	500	531	106		32	138
		2,4-DCAA	2	500	527	105		32	138

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1382

Client: Nobis Group

Analytical Method: 8151A

DataFile : PS029211.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q1372-01MS	AU-05-021425MS											
	DICAMBA	190.1	0	52.0	ug/Kg	27	*			38	132	
	Dalapon	190.1	0	124	ug/Kg	65	*			70	130	
	DICHLORPROP	190.1	0	29.6	ug/Kg	16	*			28	155	
	2,4-D	190.1	0	70.2	ug/Kg	37				28	144	
	2,4,5-TP(Silvex)	190.1	0	24.2	ug/Kg	13	*			43	129	
	2,4,5-T	190.1	0	29.2	ug/Kg	15	*			31	138	
	2,4-DB	190.1	0	30.1	ug/Kg	16	*			34	142	
	Dinoseb	190.1	0	0	ug/Kg	0	*			57	152	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1382

Client: Nobis Group

Analytical Method: 8151A

DataFile : PS029212.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q1372-01MSD	AU-05-021425MSD											
	DICAMBA	190.3	0	49.1	ug/Kg	26	*	4		38	132	20
	Dalapon	190.3	0	109	ug/Kg	57	*	13		70	130	20
	DICHLORPROP	190.3	0	38.7	ug/Kg	20	*	22	*	28	155	20
	2,4-D	190.3	0	66.0	ug/Kg	35		6		28	144	20
	2,4,5-TP(Silvex)	190.3	0	27.1	ug/Kg	14	*	7		43	129	20
	2,4,5-T	190.3	0	27.8	ug/Kg	15	*	0		31	138	20
	2,4-DB	190.3	0	35.1	ug/Kg	18	*	12		34	142	20
	Dinoseb	190.3	0	0	ug/Kg	0	*	0		57	152	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1382

Client: Nobis Group

Analytical Method: 8151A **Datafile :** PS029209.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB166763BS	DICAMBA	166.6	164	ug/Kg	98				38	132	
	Dalapon	166.6	158	ug/Kg	95				70	130	
	DICHLORPROP	166.6	162	ug/Kg	97				28	155	
	2,4-D	166.6	164	ug/Kg	98				28	144	
	2,4,5-TP(Silvex)	166.6	166	ug/Kg	100				43	129	
	2,4,5-T	166.6	165	ug/Kg	99				31	138	
	2,4-DB	166.6	161	ug/Kg	97				34	142	
	Dinoseb	166.6	161	ug/Kg	97				57	152	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166763BL

Lab Name: CHEMTECH

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382

SAS No.: Q1382 SDG NO.: Q1382

Lab Sample ID: PB166763BL

Lab File ID: PS029208.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 02/18/2025

Date Analyzed (1): 02/19/2025

Date Analyzed (2): 02/19/2025

Time Analyzed (1): 17:09

Time Analyzed (2): 17:09

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm)

GC Column (2): RTX-CLP2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB166763BS	PB166763BS	PS029209.D	02/19/2025	02/19/2025
AU-05-021425MS	Q1372-01MS	PS029211.D	02/19/2025	02/19/2025
AU-05-021425MSD	Q1372-01MSD	PS029212.D	02/19/2025	02/19/2025
OU4-PCS-TC-01-021725	Q1382-01	PS029213.D	02/19/2025	02/19/2025
OU4-PCS-TC-02-021725	Q1382-03	PS029214.D	02/19/2025	02/19/2025
OU4-PCS-TC-03-021725	Q1382-05	PS029215.D	02/19/2025	02/19/2025
OU4-PCS-TC-04-021725	Q1382-07	PS029216.D	02/19/2025	02/19/2025
OU4-PCS-TC-05-021725	Q1382-09	PS029217.D	02/19/2025	02/19/2025
OU4-PCS-TC-06-021725	Q1382-11	PS029296.D	02/26/2025	02/26/2025
OU4-PCS-TC-07-021725	Q1382-13	PS029297.D	02/26/2025	02/26/2025
OU4-PCS-TC-08-021725	Q1382-15	PS029298.D	02/26/2025	02/26/2025
OU4-PCS-TC-09-021725	Q1382-17	PS029299.D	02/26/2025	02/26/2025
OU4-PCS-TC-10-021725	Q1382-19	PS029300.D	02/26/2025	02/26/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-01-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-01	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	91.9
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029213.D	1	02/18/25 13:16	02/19/25 19:09	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0094	0.036	0.073	mg/Kg
75-99-0	DALAPON	0.054	U	0.027	0.054	0.073	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.010	0.036	0.073	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.073	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.073	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.073	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.073	mg/Kg
88-85-7	DINOSEB	0.054	U	0.014	0.054	0.073	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	417		27 - 122		83%	SPK: 500

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029213.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 19:09
 Operator : AR\AJ
 Sample : Q1382-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-PCS-TC-01-021725

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
 Supervised By :Ankita Jodhani 02/20/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:34:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.156	7.636	695.6E6	349.4E6	417.359m	361.191

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029213.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 19:09
Operator : AR\AJ
Sample : Q1382-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

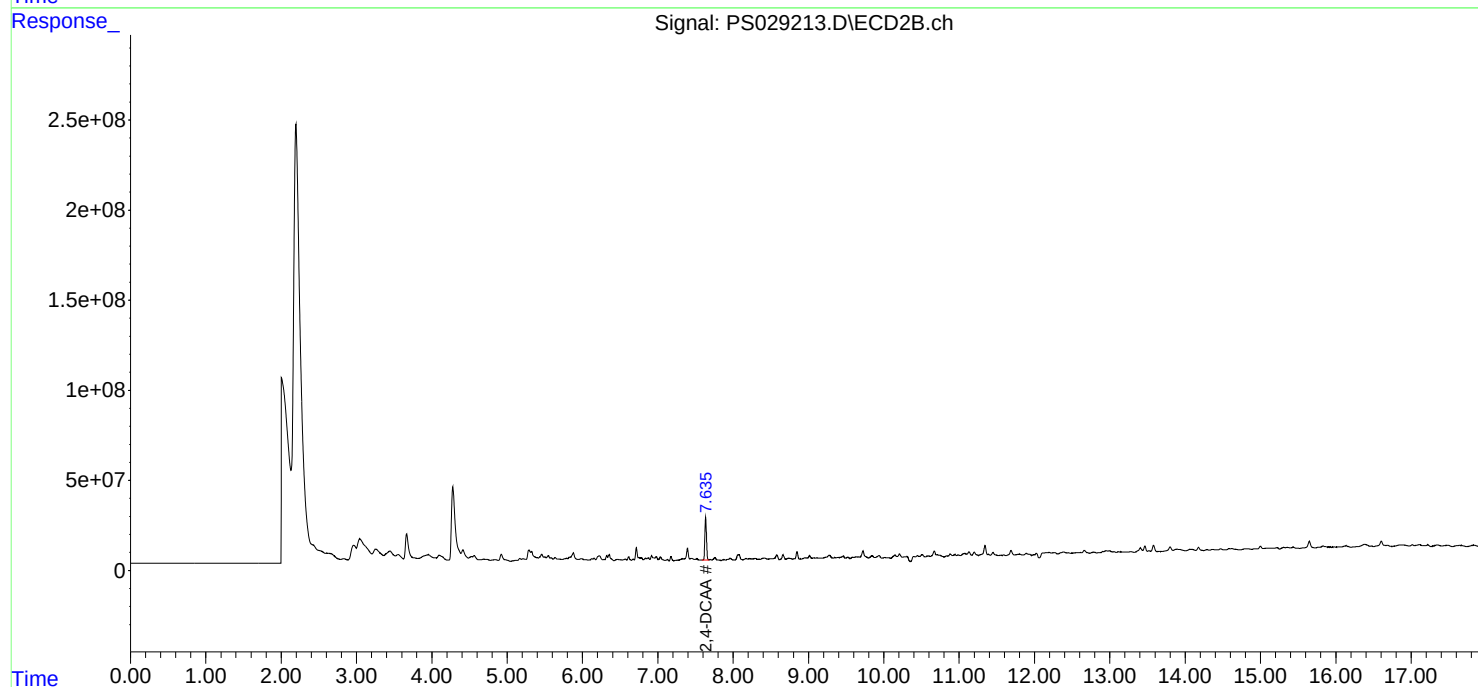
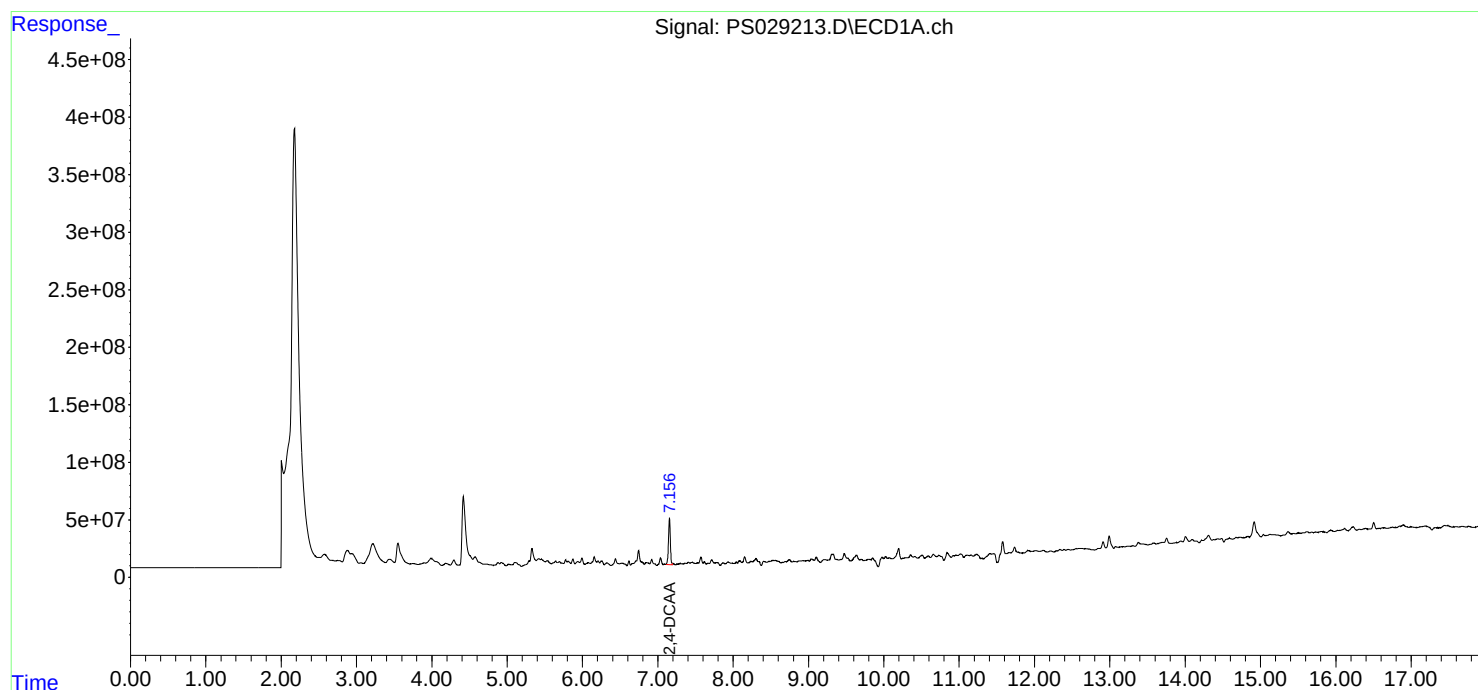
Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-01-021725

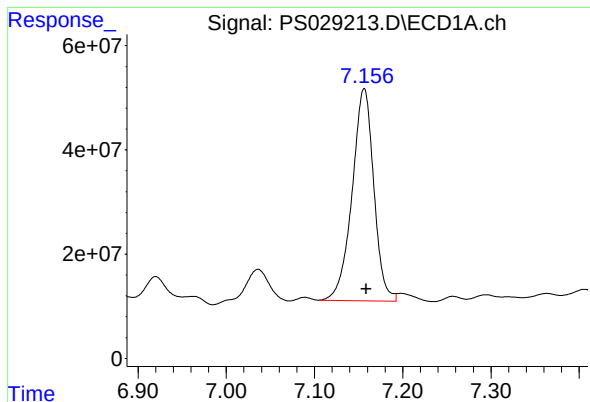
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:34:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





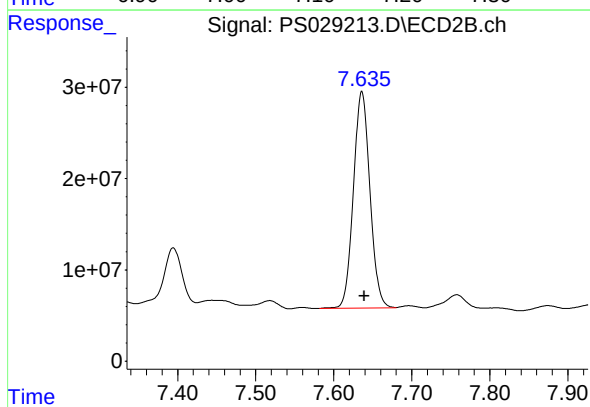
#4 2,4-DCAA

R.T.: 7.156 min
Delta R.T.: -0.003 min
Response: 695552056
Conc: 417.36 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-01-021725

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



#4 2,4-DCAA

R.T.: 7.636 min
Delta R.T.: -0.003 min
Response: 349440965
Conc: 361.19 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-02-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-03	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	91.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029214.D	1	02/18/25 13:16	02/19/25 19:33	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0094	0.036	0.073	mg/Kg
75-99-0	DALAPON	0.054	U	0.027	0.054	0.073	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.010	0.036	0.073	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.073	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.073	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.073	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.073	mg/Kg
88-85-7	DINOSEB	0.054	U	0.014	0.054	0.073	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	434		27 - 122		87%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029214.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 19:33
 Operator : AR\AJ
 Sample : Q1382-03
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-PCS-TC-02-021725

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:34:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.156	7.637	722.7E6	389.9E6	433.662	403.022

Target Compounds

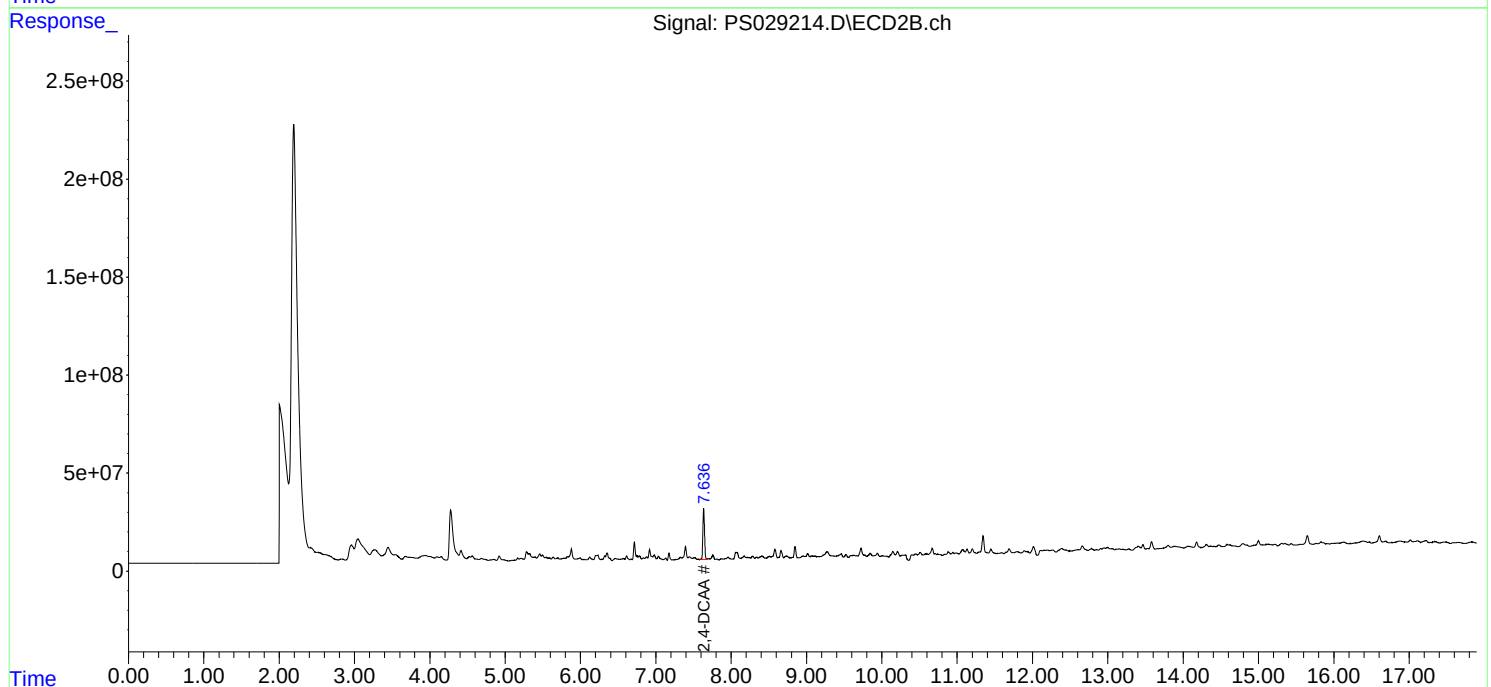
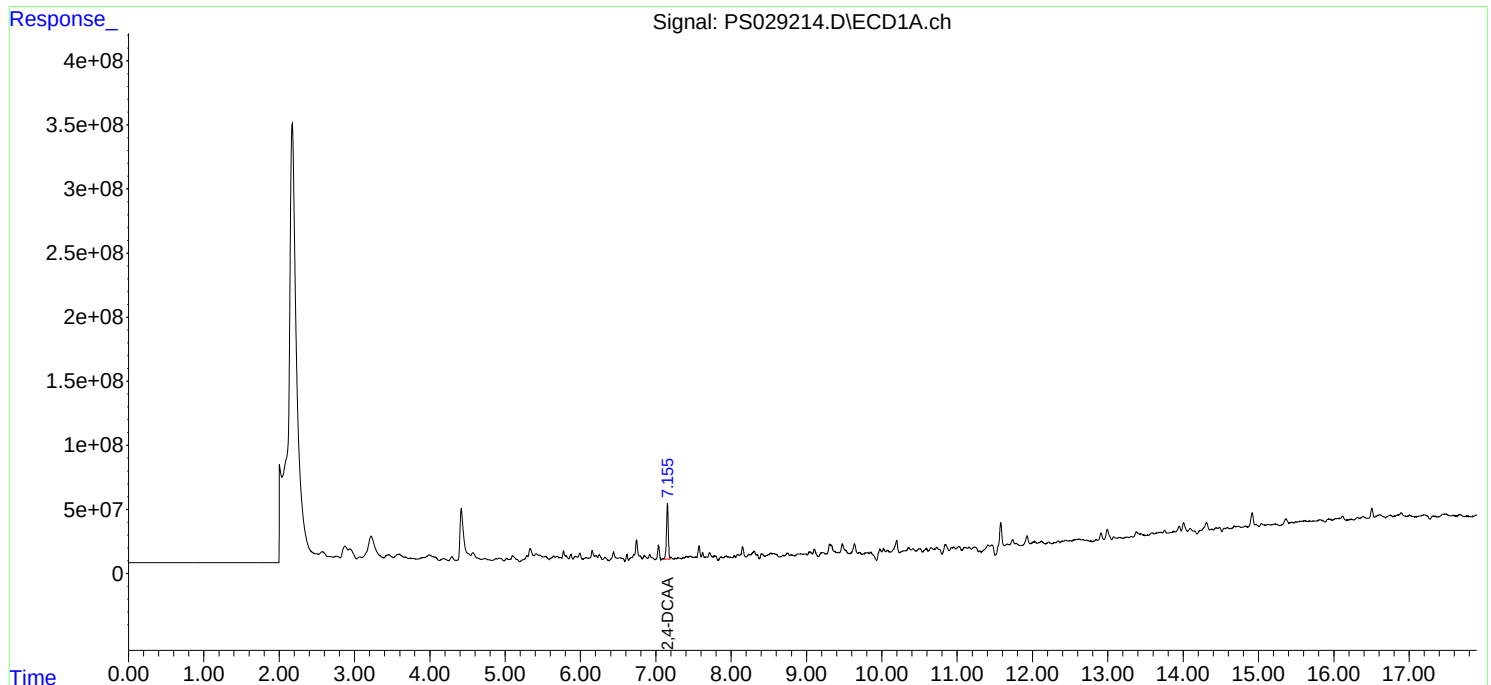
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

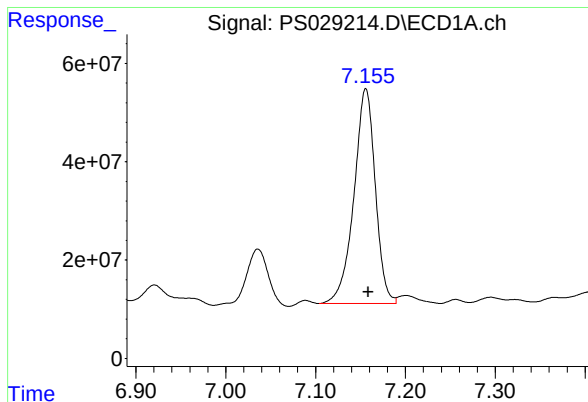
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029214.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 19:33
Operator : AR\AJ
Sample : Q1382-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-02-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:34:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

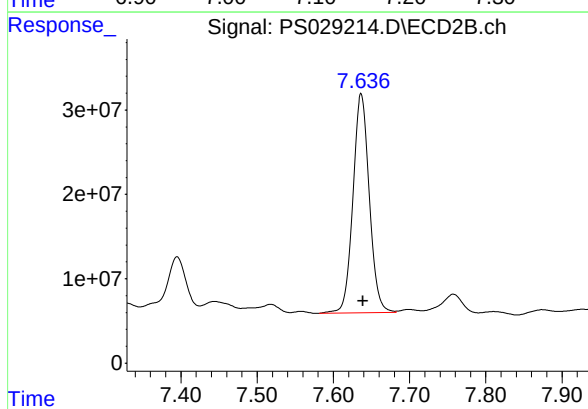




#4 2,4-DCAA

R.T.: 7.156 min
Delta R.T.: -0.003 min
Response: 722722088
Conc: 433.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-02-021725



#4 2,4-DCAA

R.T.: 7.637 min
Delta R.T.: -0.002 min
Response: 389911356
Conc: 403.02 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-03-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-05	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	92.4
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029215.D	1	02/18/25 13:16	02/19/25 19:57	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0094	0.036	0.073	mg/Kg
75-99-0	DALAPON	0.054	U	0.027	0.054	0.073	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.010	0.036	0.073	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.073	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.073	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.073	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.073	mg/Kg
88-85-7	DINOSEB	0.054	U	0.013	0.054	0.073	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	433		27 - 122		87%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029215.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 19:57
 Operator : AR\AJ
 Sample : Q1382-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-PCS-TC-03-021725

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
 Supervised By :Ankita Jodhani 02/20/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:34:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.156	7.637	721.8E6	370.3E6	433.126m	382.734

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 19:57
Operator : AR\AJ
Sample : Q1382-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

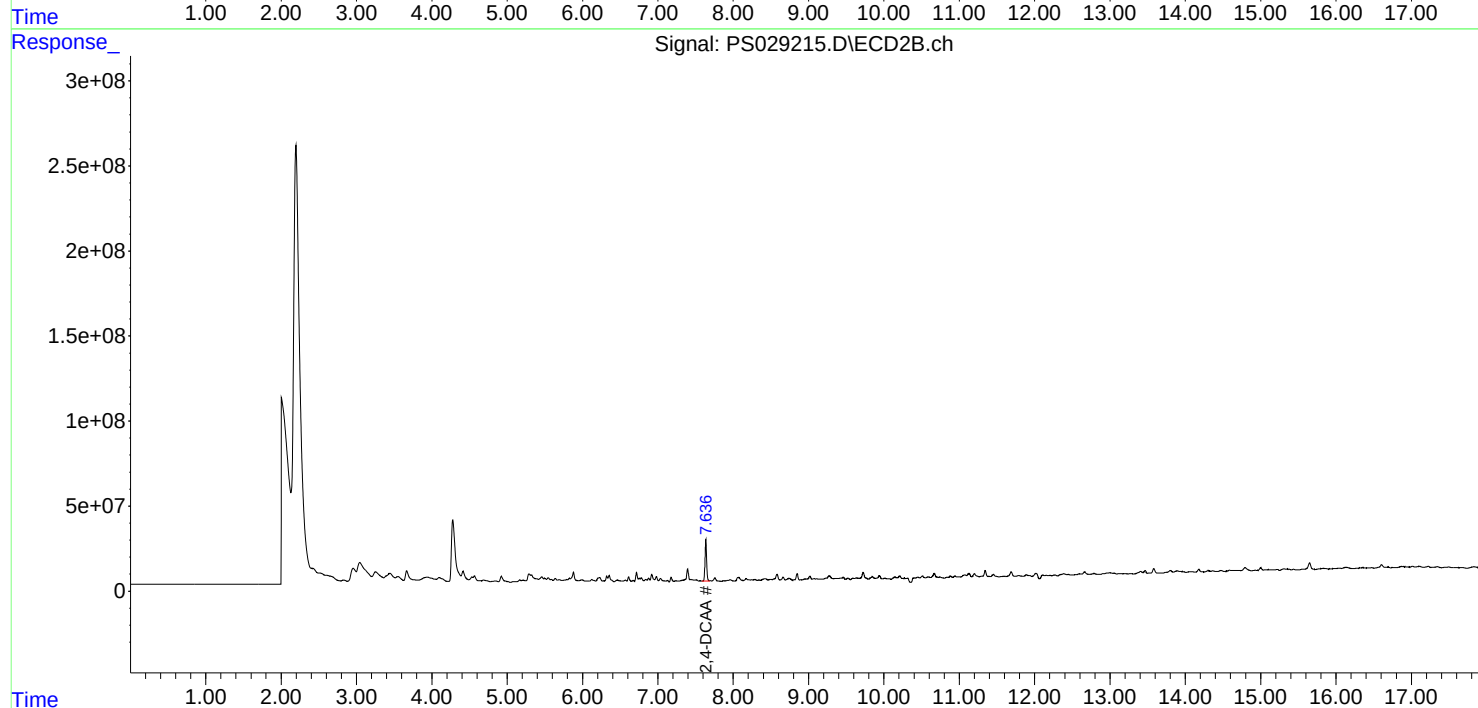
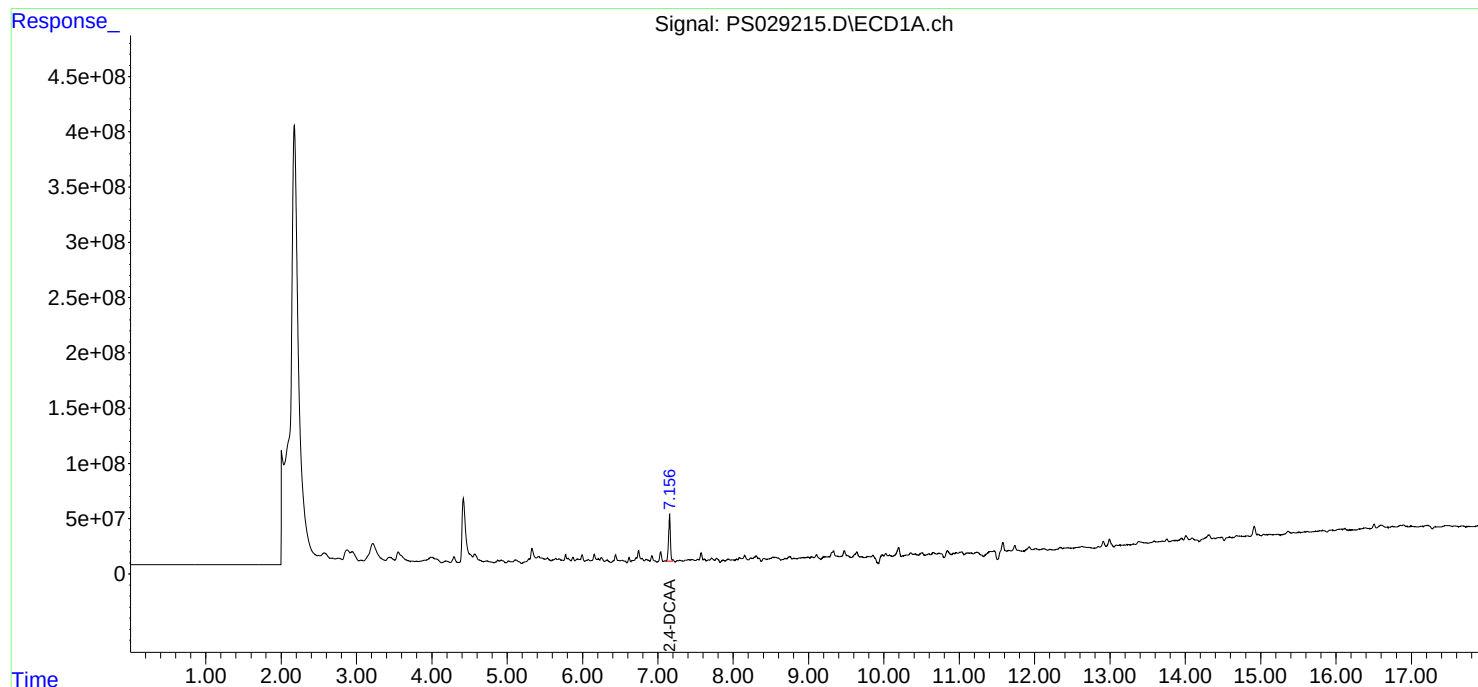
Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-03-021725

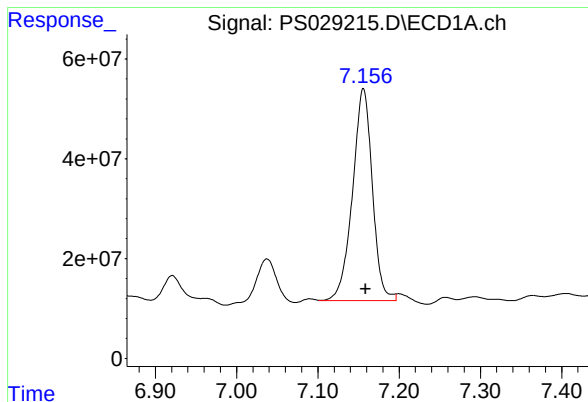
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:34:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





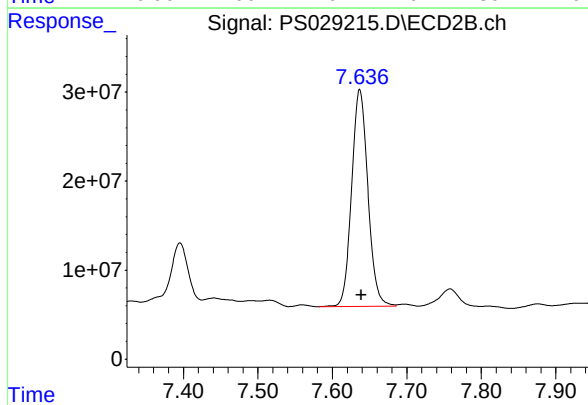
#4 2,4-DCAA

R.T.: 7.156 min
Delta R.T.: -0.003 min
Response: 721829935
Conc: 433.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-03-021725

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



#4 2,4-DCAA

R.T.: 7.637 min
Delta R.T.: -0.002 min
Response: 370283313
Conc: 382.73 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-04-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-07	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	92.5 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029216.D	1	02/18/25 13:16	02/19/25 20:21	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0093	0.036	0.072	mg/Kg
75-99-0	DALAPON	0.054	U	0.027	0.054	0.072	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.010	0.036	0.072	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.072	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.072	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.072	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.072	mg/Kg
88-85-7	DINOSEB	0.054	U	0.013	0.054	0.072	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	380		27 - 122		76%	SPK: 500

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029216.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 20:21
 Operator : AR\AJ
 Sample : Q1382-07
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-PCS-TC-04-021725

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:35:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.156	7.636	633.4E6	354.0E6	380.044	365.932

Target Compounds

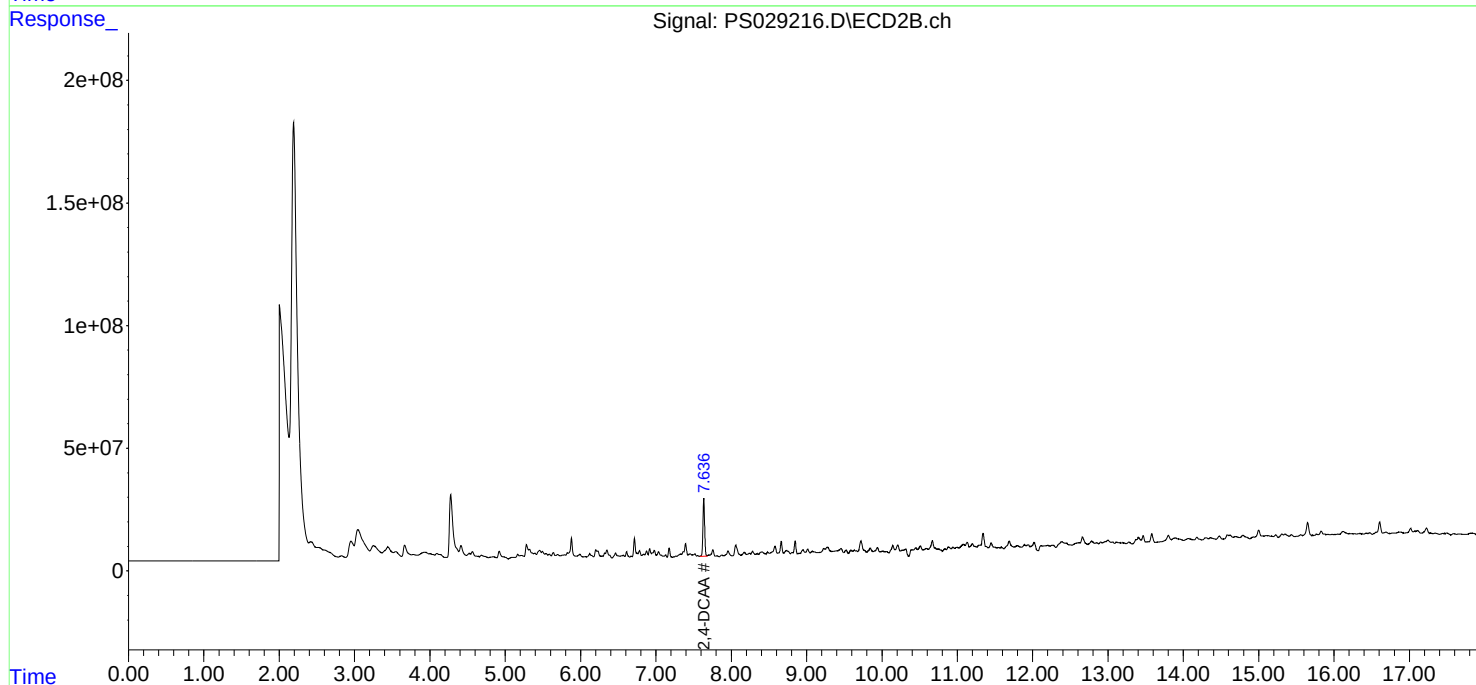
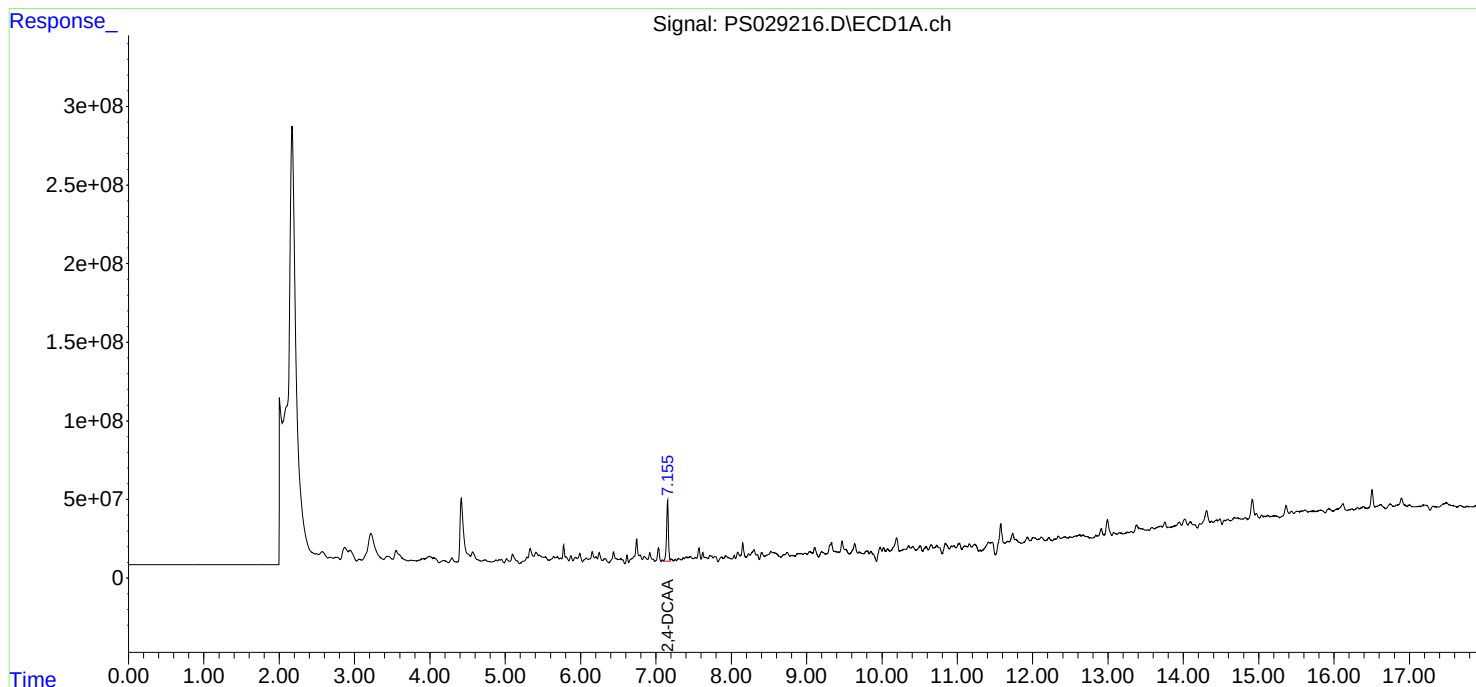
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

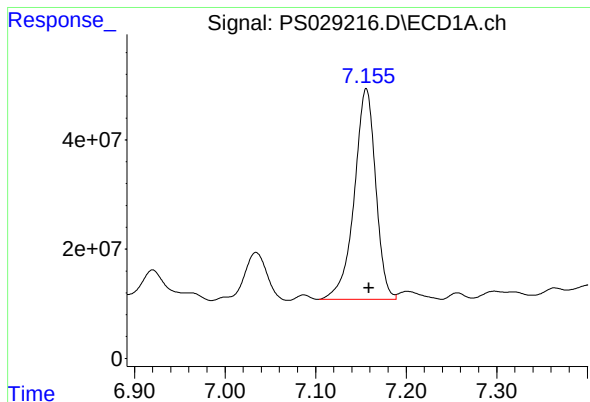
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029216.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 20:21
Operator : AR\AJ
Sample : Q1382-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-04-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:35:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

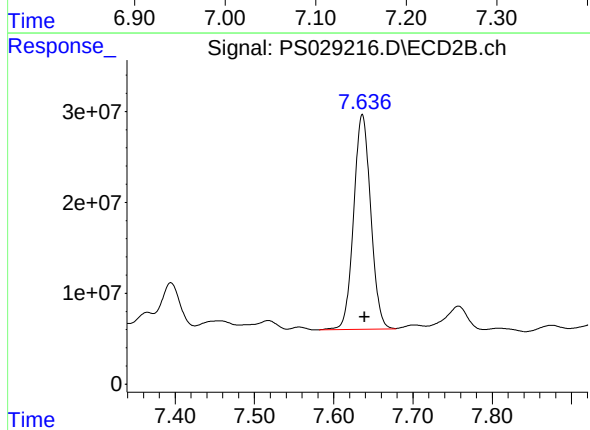




#4 2,4-DCAA

R.T.: 7.156 min
Delta R.T.: -0.003 min
Response: 633364609
Conc: 380.04 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-04-021725



#4 2,4-DCAA

R.T.: 7.636 min
Delta R.T.: -0.003 min
Response: 354028015
Conc: 365.93 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-05-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-09	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	92
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029217.D	1	02/18/25 13:16	02/19/25 20:45	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0094	0.036	0.073	mg/Kg
75-99-0	DALAPON	0.054	U	0.027	0.054	0.073	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.010	0.036	0.073	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.073	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.073	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.073	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.073	mg/Kg
88-85-7	DINOSEB	0.054	U	0.014	0.054	0.073	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	420		27 - 122		84%	SPK: 500

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029217.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 20:45
 Operator : AR\AJ
 Sample : Q1382-09
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-PCS-TC-05-021725

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:35:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.157	7.636	699.9E6	402.3E6	419.997	415.800

Target Compounds

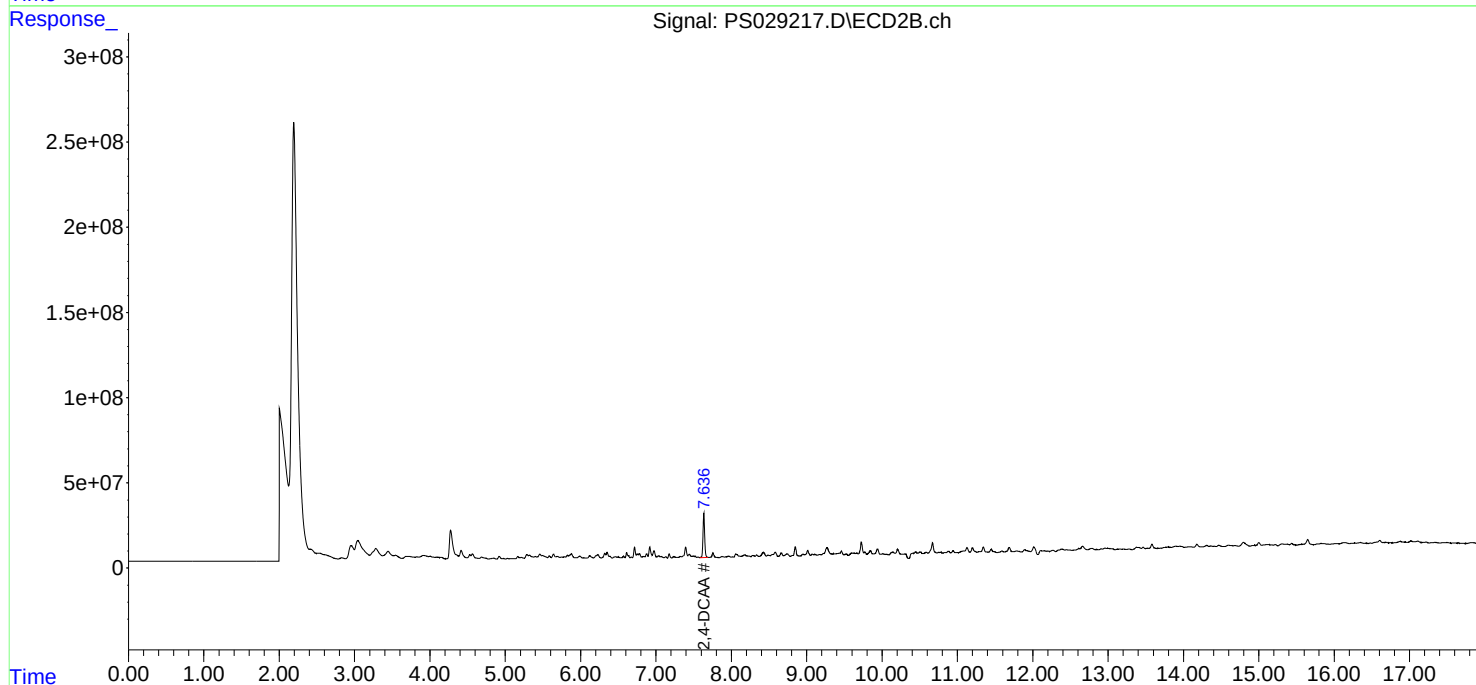
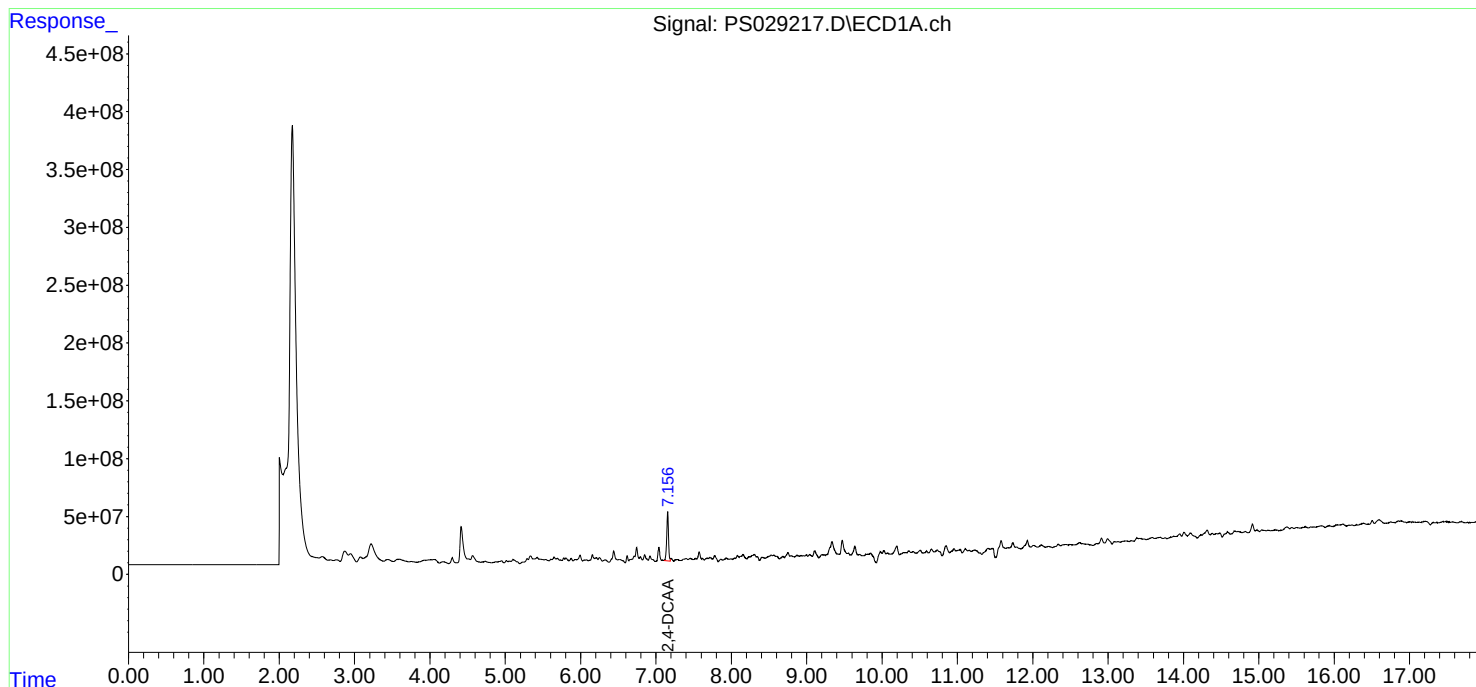
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

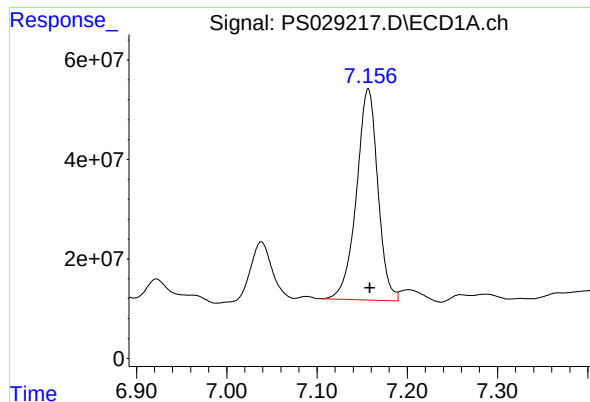
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 20:45
Operator : AR\AJ
Sample : Q1382-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-05-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:35:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#4 2,4-DCAA

R.T.: 7.157 min

Delta R.T.: -0.002 min

Response: 699948932

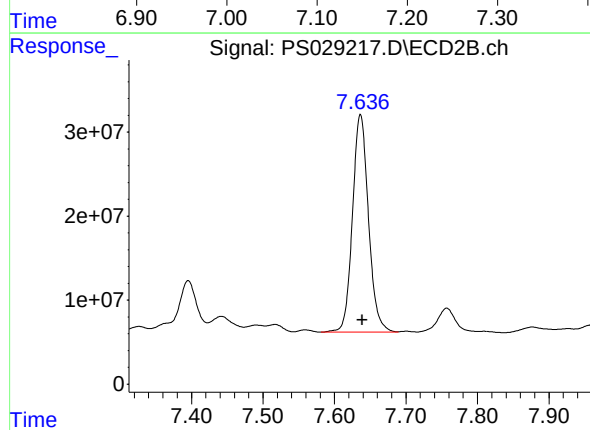
Conc: 420.00 ng/ml

Instrument :

ECD_S

ClientSampleId :

OU4-PCS-TC-05-021725



#4 2,4-DCAA

R.T.: 7.636 min

Delta R.T.: -0.003 min

Response: 402274054

Conc: 415.80 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-06-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-11	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	92.2
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029296.D	1	02/18/25 13:16	02/26/25 16:34	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0094	0.036	0.073	mg/Kg
75-99-0	DALAPON	0.054	U	0.027	0.054	0.073	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.010	0.036	0.073	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.073	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.073	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.073	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.073	mg/Kg
88-85-7	DINOSEB	0.054	U	0.013	0.054	0.073	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	453		27 - 122		91%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
 Data File : PS029296.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Feb 2025 16:34
 Operator : AR\AJ
 Sample : Q1382-11
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-PCS-TC-06-021725

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 27 04:03:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds

4) S	2,4-DCAA	7.157	7.627	1824.1E6	426.3E6	442.687m	453.299m

Target Compounds

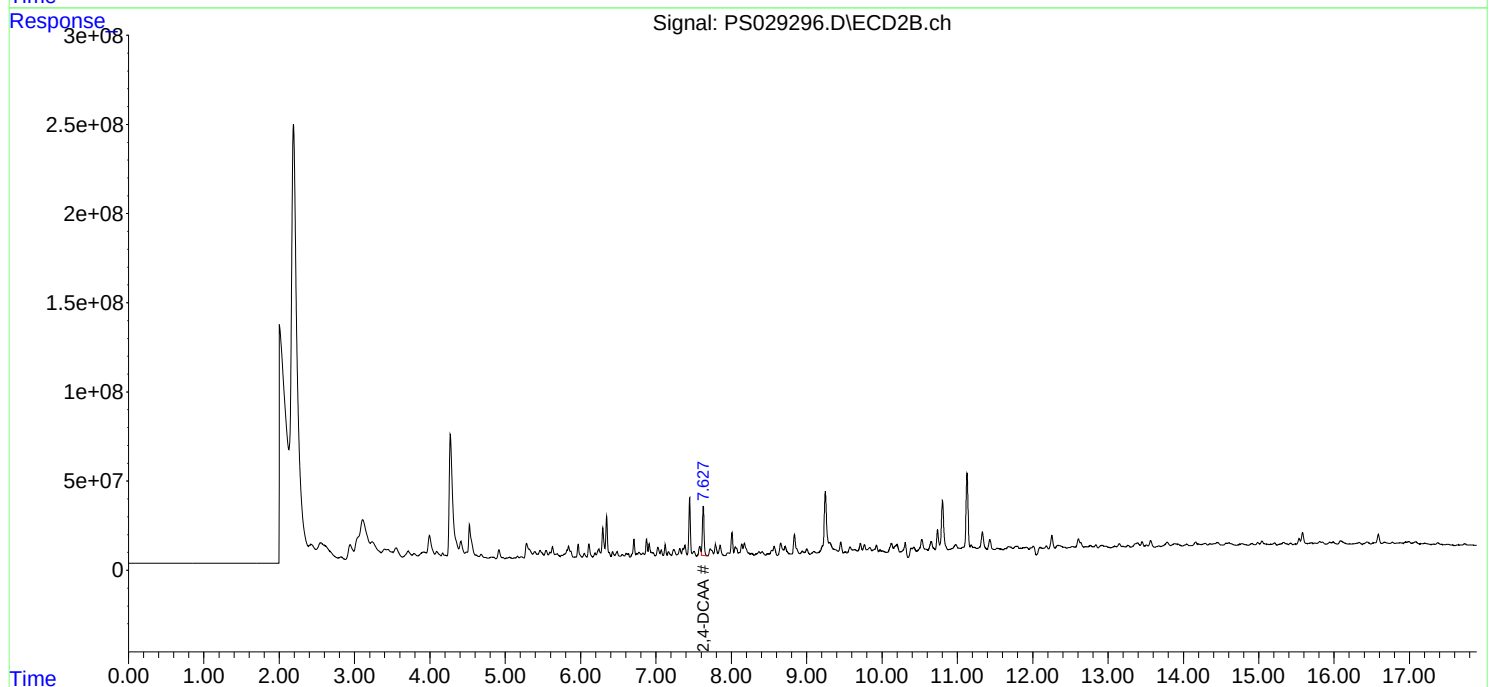
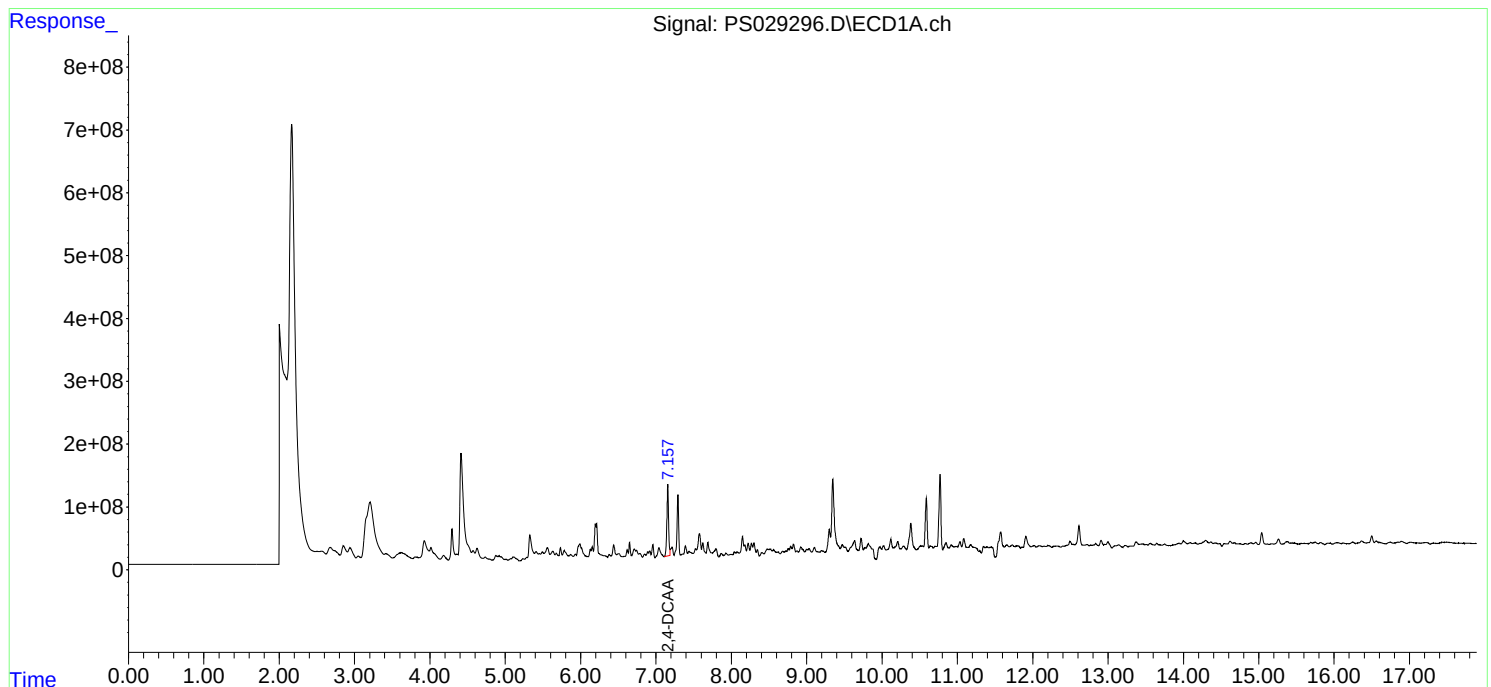
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

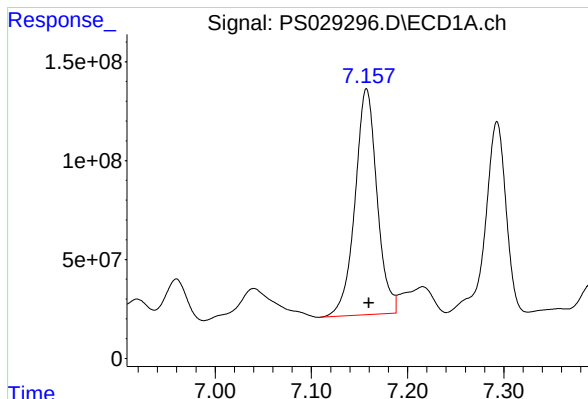
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029296.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 16:34
Operator : AR\AJ
Sample : Q1382-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-06-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:03:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#4 2,4-DCAA

R.T.: 7.157 min

Delta R.T.: -0.003 min

Response: 1824124273

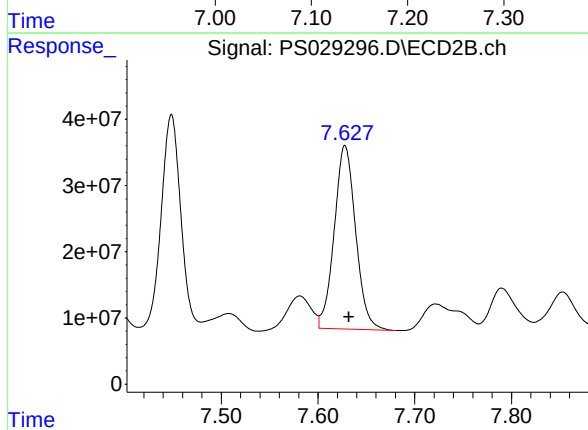
Conc: 442.69 ng/ml

Instrument :

ECD_S

ClientSampleId :

OU4-PCS-TC-06-021725



#4 2,4-DCAA

R.T.: 7.627 min

Delta R.T.: -0.005 min

Response: 426252281

Conc: 453.30 ng/ml m

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-07-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-13	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	92.2
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029297.D	1	02/18/25 13:16	02/26/25 16:58	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0094	0.036	0.073	mg/Kg
75-99-0	DALAPON	0.054	U	0.027	0.054	0.073	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.010	0.036	0.073	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.073	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.073	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.073	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.073	mg/Kg
88-85-7	DINOSEB	0.054	U	0.013	0.054	0.073	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	553		27 - 122		111%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
 Data File : PS029297.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Feb 2025 16:58
 Operator : AR\AJ
 Sample : Q1382-13
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-PCS-TC-07-021725

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 27 04:03:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.157	7.628	2147.8E6	520.3E6	521.225m	553.364m

Target Compounds

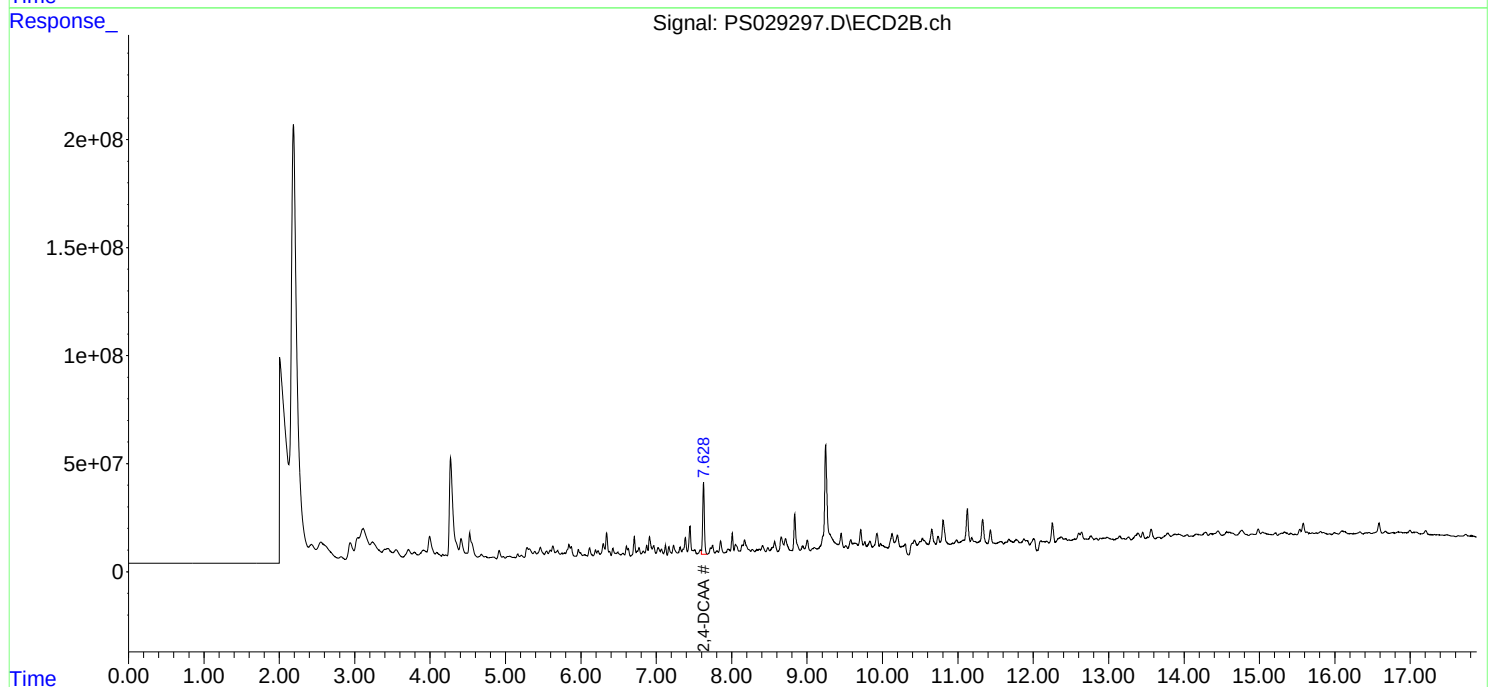
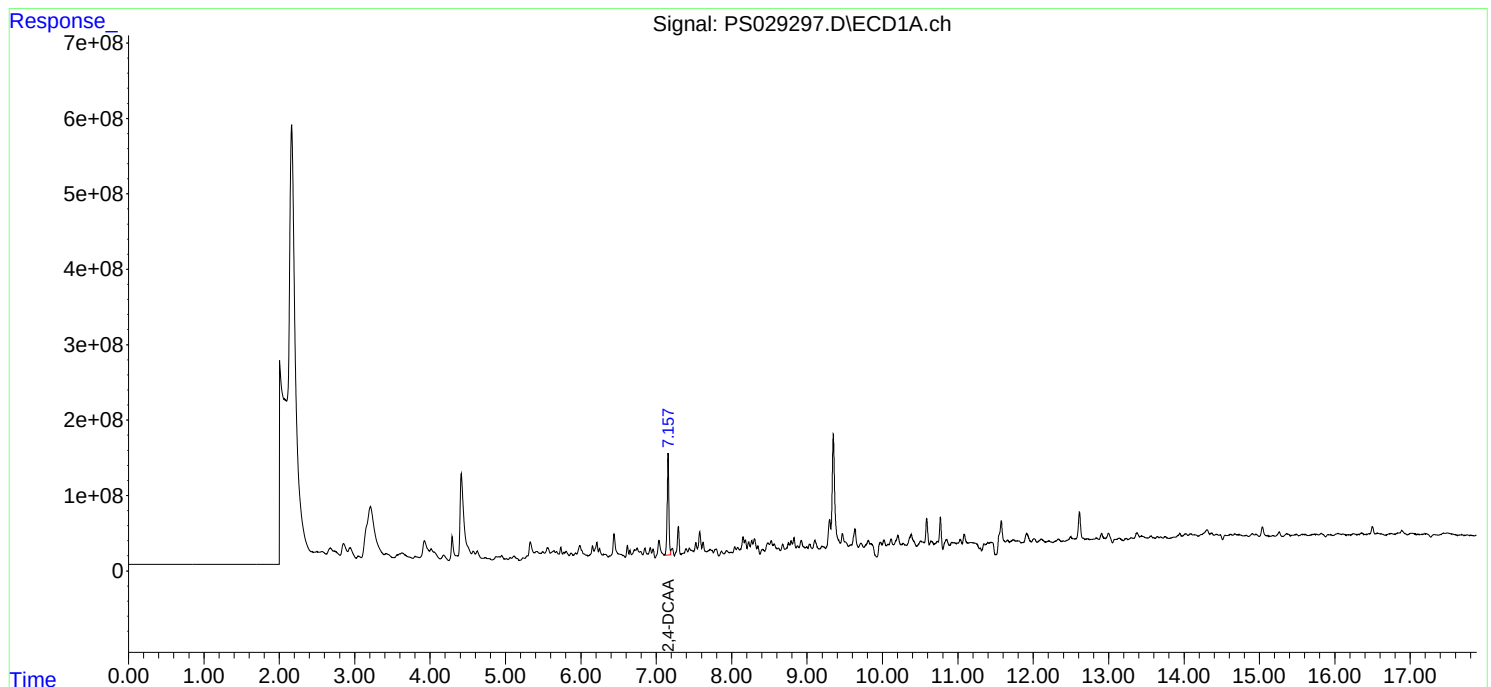
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

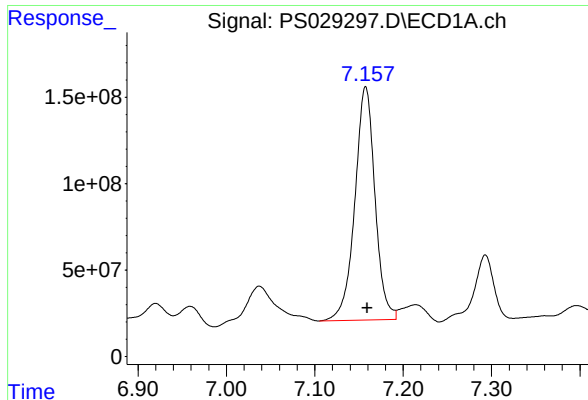
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029297.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 16:58
Operator : AR\AJ
Sample : Q1382-13
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-07-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:03:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#4 2,4-DCAA

R.T.: 7.157 min

Delta R.T.: -0.003 min

Response: 2147750015

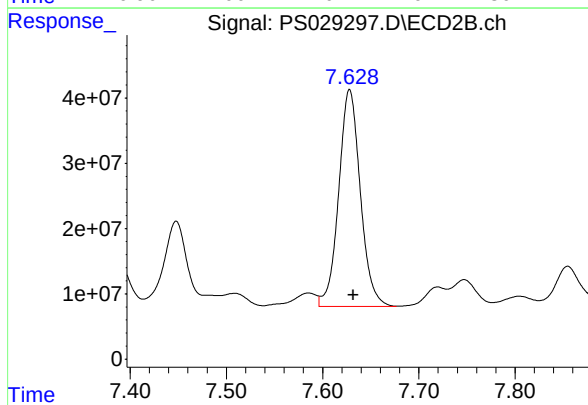
Conc: 521.23 ng/ml

Instrument :

ECD_S

ClientSampleId :

OU4-PCS-TC-07-021725



#4 2,4-DCAA

R.T.: 7.628 min

Delta R.T.: -0.004 min

Response: 520346521

Conc: 553.36 ng/ml m

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-08-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-15	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	92.6
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029298.D	1	02/18/25 13:16	02/26/25 17:22	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0094	0.036	0.072	mg/Kg
75-99-0	DALAPON	0.054	U	0.027	0.054	0.072	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.010	0.036	0.072	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.072	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.072	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.072	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.072	mg/Kg
88-85-7	DINOSEB	0.054	U	0.013	0.054	0.072	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	562		27 - 122		112%	SPK: 500

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029298.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 17:22
Operator : AR\AJ
Sample : Q1382-15
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-08-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:04:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds

4) S	2,4-DCAA	7.157	7.627	2267.7E6	528.9E6	550.327	562.482m

Target Compounds

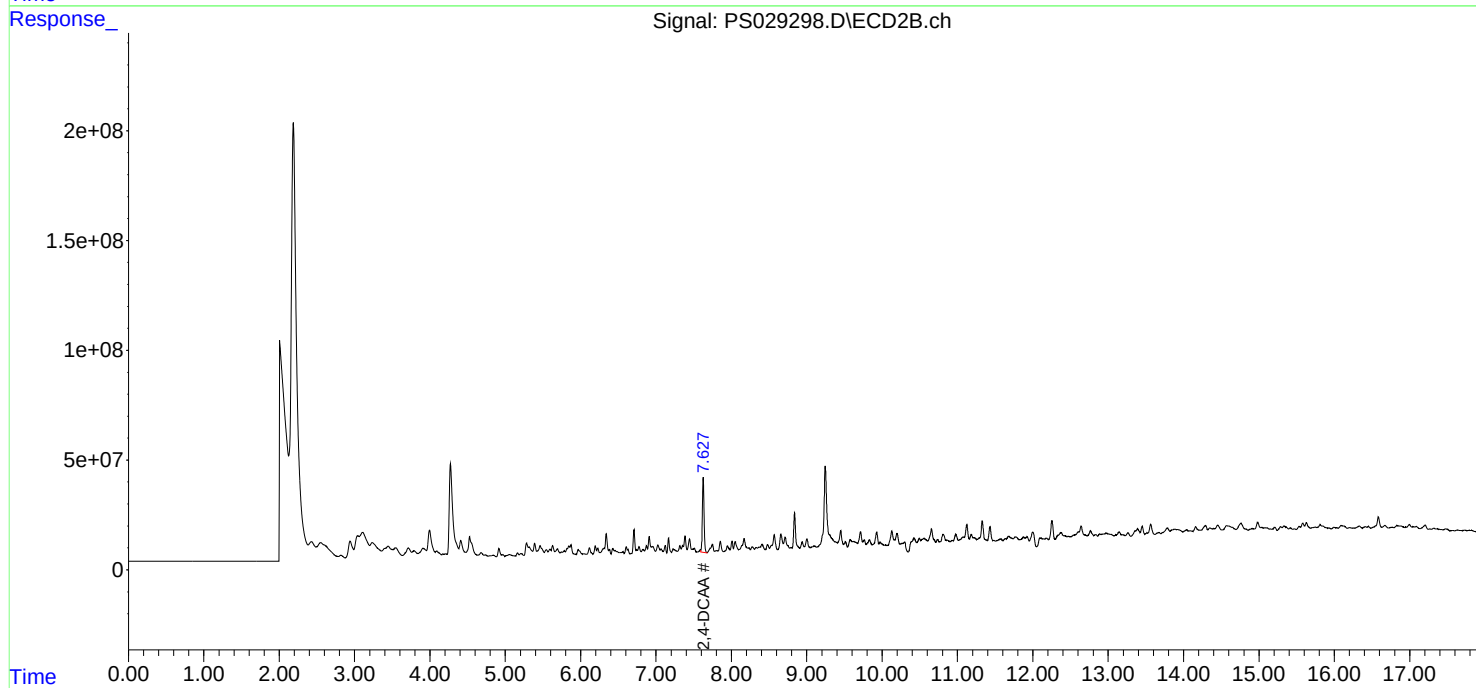
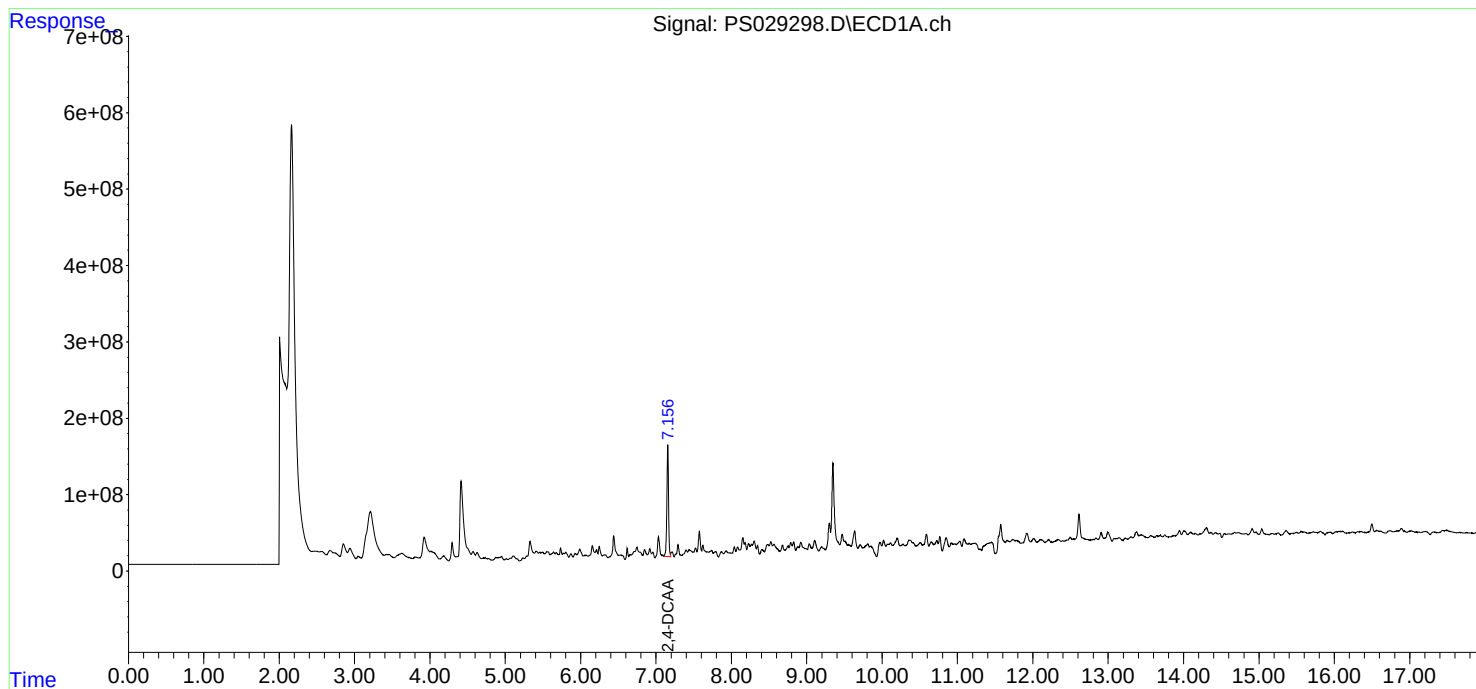
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

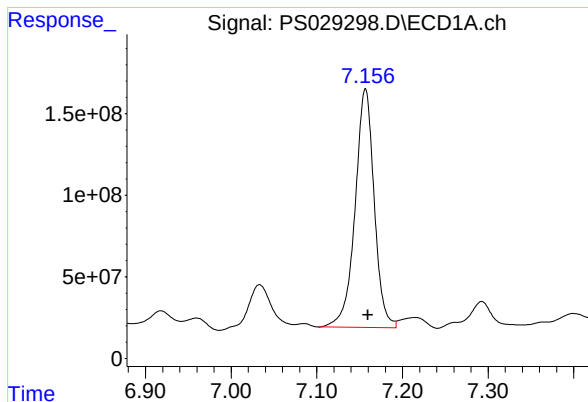
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029298.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 17:22
Operator : AR\AJ
Sample : Q1382-15
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-08-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:04:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#4 2,4-DCAA

R.T.: 7.157 min

Delta R.T.: -0.003 min

Response: 2267666891

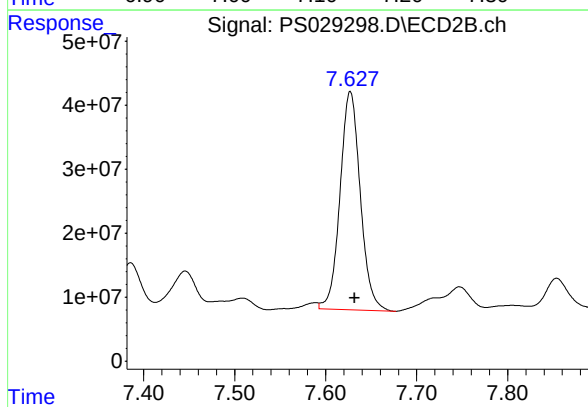
Conc: 550.33 ng/ml

Instrument :

ECD_S

ClientSampleId :

OU4-PCS-TC-08-021725



#4 2,4-DCAA

R.T.: 7.627 min

Delta R.T.: -0.005 min

Response: 528920681

Conc: 562.48 ng/ml m

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-09-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-17	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	92.6 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029299.D	1	02/18/25 13:16	02/26/25 17:46	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0093	0.036	0.072	mg/Kg
75-99-0	DALAPON	0.054	U	0.027	0.054	0.072	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.010	0.036	0.072	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.072	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.072	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.072	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.072	mg/Kg
88-85-7	DINOSEB	0.054	U	0.013	0.054	0.072	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	539		27 - 122		108%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029299.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 17:46
Operator : AR\AJ
Sample : Q1382-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-09-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:04:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.157	7.627	2221.1E6	496.7E6	539.034	528.198m

Target Compounds

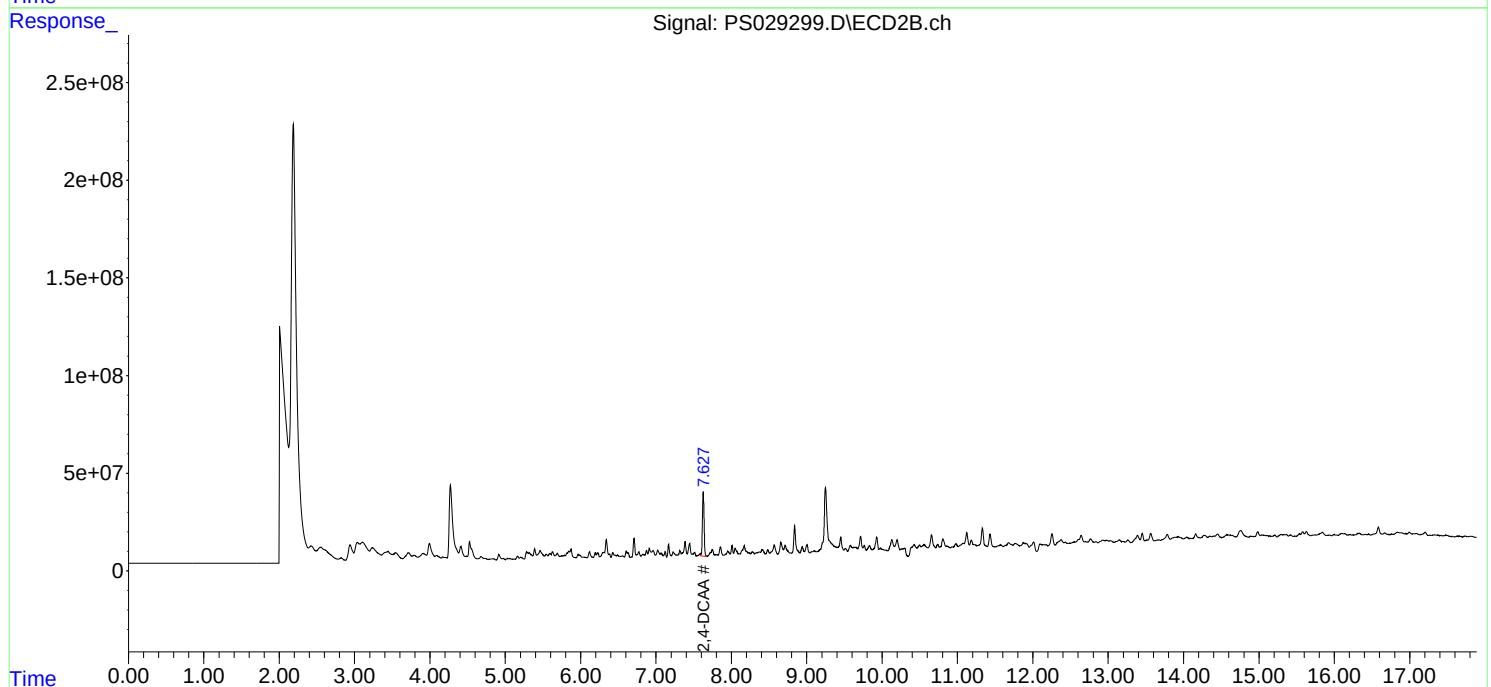
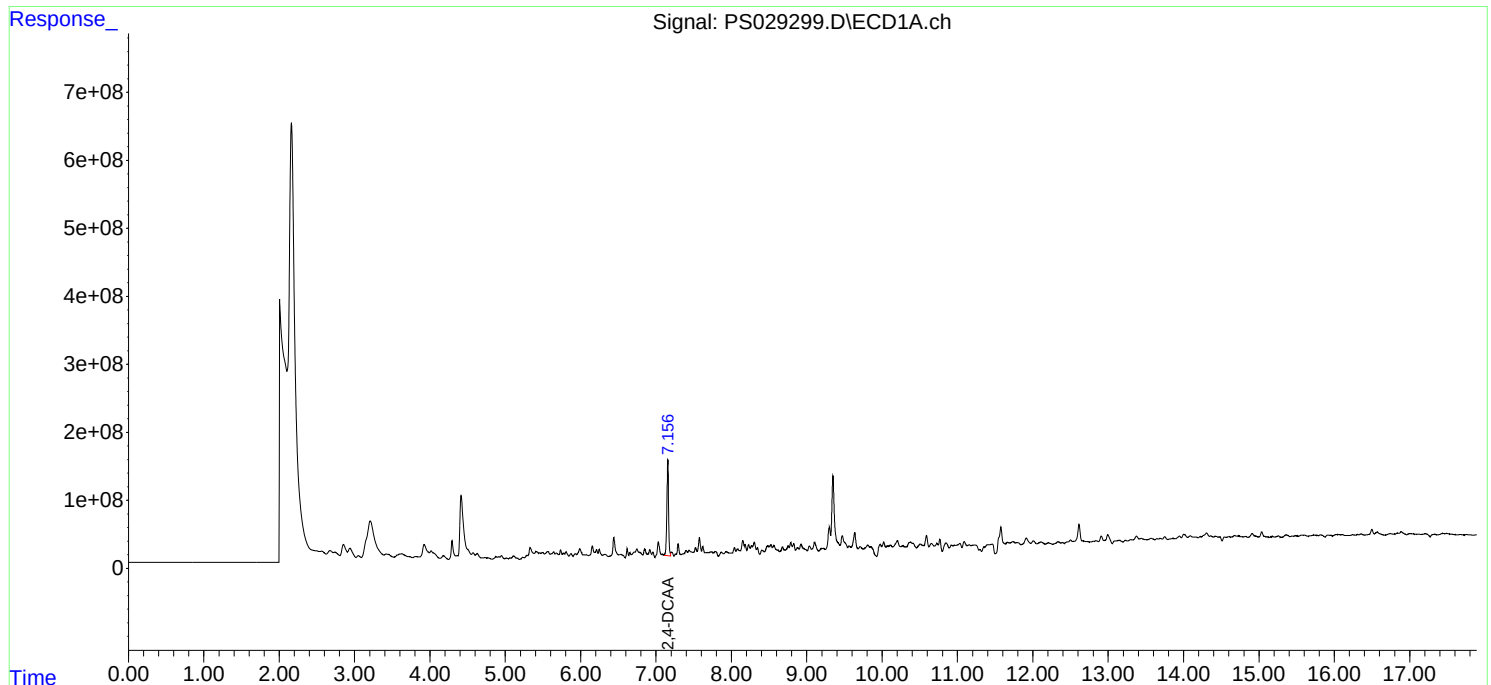
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

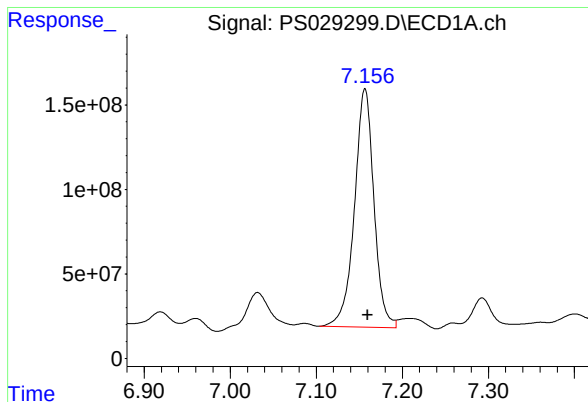
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029299.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 17:46
Operator : AR\AJ
Sample : Q1382-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-09-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:04:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#4 2,4-DCAA

R.T.: 7.157 min

Delta R.T.: -0.003 min

Response: 2221132759

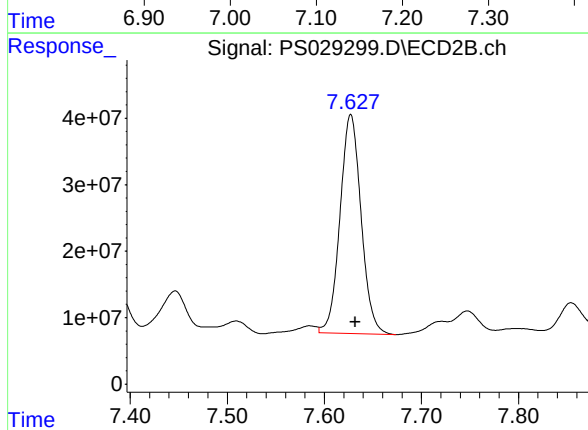
Conc: 539.03 ng/ml

Instrument :

ECD_S

ClientSampleId :

OU4-PCS-TC-09-021725



#4 2,4-DCAA

R.T.: 7.627 min

Delta R.T.: -0.005 min

Response: 496681861

Conc: 528.20 ng/ml m

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-10-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-19	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	93.4 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029300.D	1	02/18/25 13:16	02/26/25 18:10	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.035	U	0.0093	0.035	0.072	mg/Kg
75-99-0	DALAPON	0.054	U	0.027	0.054	0.072	mg/Kg
120-36-5	DICHLORPROP	0.035	U	0.010	0.035	0.072	mg/Kg
94-75-7	2,4-D	0.035	U	0.013	0.035	0.072	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.035	U	0.010	0.035	0.072	mg/Kg
93-76-5	2,4,5-T	0.035	U	0.011	0.035	0.072	mg/Kg
94-82-6	2,4-DB	0.035	U	0.020	0.035	0.072	mg/Kg
88-85-7	DINOSEB	0.054	U	0.013	0.054	0.072	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	502		27 - 122		100%	SPK: 500

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
 Data File : PS029300.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Feb 2025 18:10
 Operator : AR\AJ
 Sample : Q1382-19
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-PCS-TC-10-021725

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 27 04:04:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds

4) S	2,4-DCAA	7.156	7.626	2070.2E6	447.3E6	502.410m	475.698m

Target Compounds

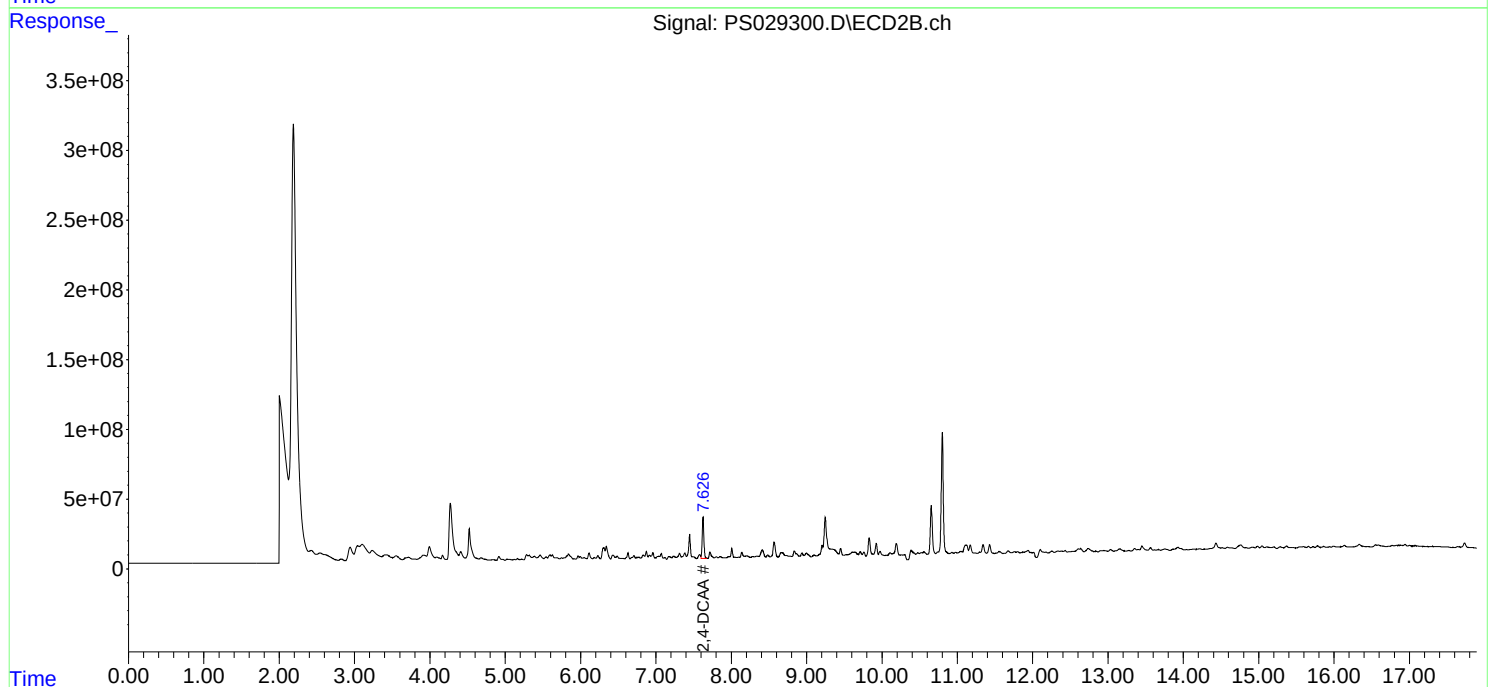
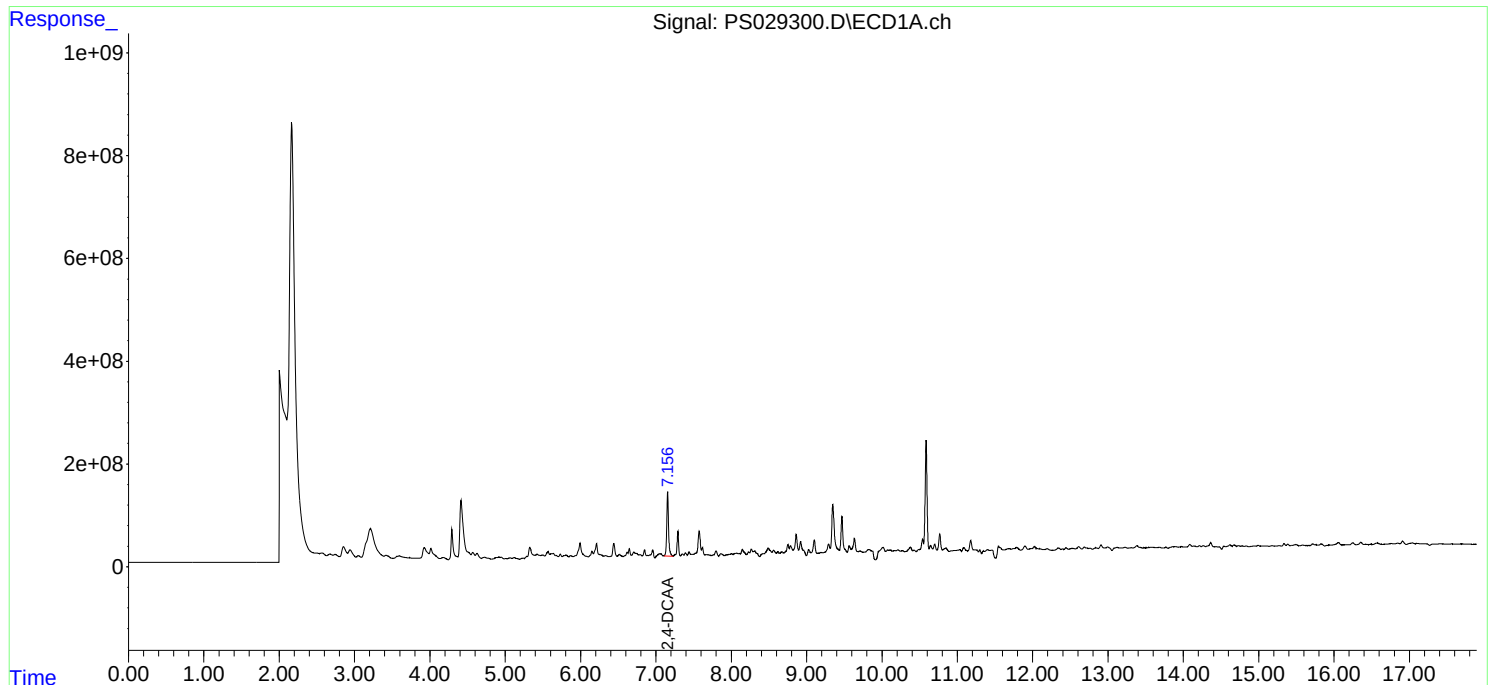
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

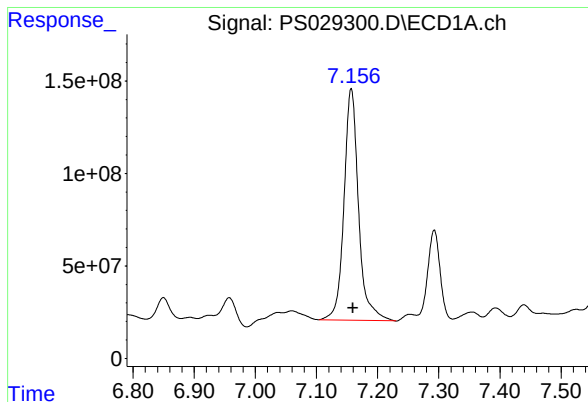
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029300.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 18:10
Operator : AR\AJ
Sample : Q1382-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-10-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:04:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#4 2,4-DCAA

R.T.: 7.156 min

Delta R.T.: -0.003 min

Response: 2070220699

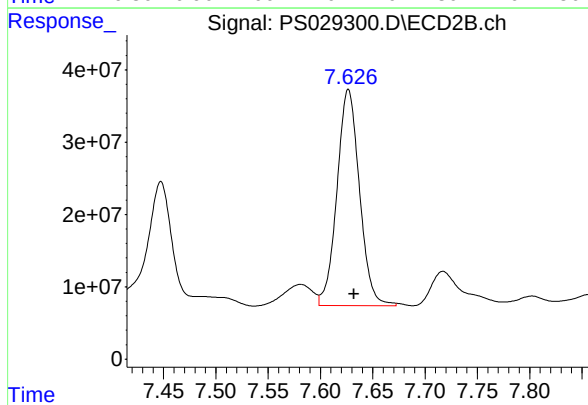
Conc: 502.41 ng/ml

Instrument :

ECD_S

ClientSampleId :

OU4-PCS-TC-10-021725



#4 2,4-DCAA

R.T.: 7.626 min

Delta R.T.: -0.006 min

Response: 447314045

Conc: 475.70 ng/ml m



CALIBRATION SUMMARY

GC Column: RTX-CLP ID: 0.32 (mm)

[illegible]

GC Column: RTX-CLP2 ID: 0.32 (mm)

[illegible]



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

Instrument ID: ECD_S Calibration Date(s): 02/19/2025 02/19/2025
Calibration Times: 10:21 11:57

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID:		CF 200 =	<u>PS029191.D</u>	CF 500 =	<u>PS029192.D</u>		
CF 750 =		<u>PS029193.D</u>	CF 1000 =	<u>PS029194.D</u>	CF 1500 =	<u>PS029195.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	16790300000	16223200000	14661700000	14725300000	13713500000	15222800000	8
2,4,5-TP(Silvex)	17909600000	17193800000	15555400000	15546700000	14418900000	16124900000	9
2,4-D	2667790000	2398000000	2144380000	2141750000	2013420000	2273070000	11
2,4-DB	2614110000	2538080000	2322580000	2360880000	2249770000	2417080000	6
2,4-DCAA	1902800000	1764480000	1583650000	1589020000	1492840000	1666560000	10
Dalapon	3802600000	3399150000	3084260000	3101980000	3049460000	3287490000	10
DICAMBA	9471480000	9257770000	8473840000	8564340000	8107370000	8774960000	6
DICHLORPROP	2847350000	2298820000	2052670000	2044810000	1912350000	2231200000	17
Dinoseb	14191100000	13481800000	12149200000	12237300000	11469800000	12705900000	9

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: NOBI03
Lab Code: CHEM **Case No.:** Q1382 **SAS No.:** Q1382 **SDG NO.:** Q1382
Instrument ID: ECD_S **Calibration Date(s):** 02/19/2025 02/19/2025
Calibration Times: 10:21 11:57
GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS029191.D</u>		CF 500 = <u>PS029192.D</u>			
CF 750 = <u>PS029193.D</u>		CF 1000 = <u>PS029194.D</u>		CF 1500 = <u>PS029195.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	8926140000	9101900000	8423930000	8607580000	8207950000	8653500000	4
2,4,5-TP(Silvex)	9635600000	9898160000	9155310000	9324770000	8868360000	9376440000	4
2,4-D	1396710000	1369590000	1258070000	1292330000	1242230000	1311790000	5
2,4-DB	867614000	884969000	830097000	859270000	833574000	855105000	3
2,4-DCAA	1036460000	1008470000	928536000	948844000	915038000	967469000	5
Dalapon	2314240000	2223080000	2009870000	2066910000	2008470000	2124510000	6
DICAMBA	5263290000	5492870000	5151040000	5332830000	5174870000	5282980000	3
DICHLORPROP	1443860000	1359310000	1251020000	1273290000	1224690000	1310430000	7
Dinoseb	6796500000	6785850000	6247650000	6403320000	6144780000	6475620000	5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029191.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 10:21
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC200

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 19 12:35:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Wed Feb 19 12:25:45 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.160	7.638	380.6E6	207.3E6	228.351	214.261
Target Compounds							
1) T	Dalapon	2.604	2.648	692.1E6	421.2E6	210.517	198.253
2) T	3,5-DICHL...	6.343	6.609	527.3E6	287.8E6	211.738	197.659
3) T	4-Nitroph...	6.959	7.168	274.9E6	167.4E6	191.686	195.442
5) T	DICAMBA	7.343	7.832	1780.6E6	989.5E6	202.923	187.299
6) T	MCP	7.521	7.934	41475758	38167005	13.157	16.730 #
7) T	MCPA	7.668	8.173	71544594	53627402	15.939	17.015
8) T	DICHLORPROP	8.044	8.542	535.3E6	271.4E6	239.916	207.141
9) T	2,4-D	8.273	8.868	501.5E6	262.6E6	220.646	200.171
10) T	Pentachlo...	8.567	9.387	9059.4E6	4746.9E6	217.600	199.520
11) T	2,4,5-TP ...	9.141	9.764	3402.8E6	1830.8E6	211.030	195.252
12) T	2,4,5-T	9.432	10.179	3190.2E6	1696.0E6	209.564	195.986
13) T	2,4-DB	10.000	10.743	496.7E6	164.8E6	205.488	192.779
14) T	DINOSEB	11.199	11.120	2667.9E6	1277.7E6	209.976	197.316
15) T	Picloram	11.011	12.197	5213.8E6	2210.4E6	199.509	176.266
16) T	DCPA	11.495	12.156	5586.5E6	2436.8E6	213.595	196.164

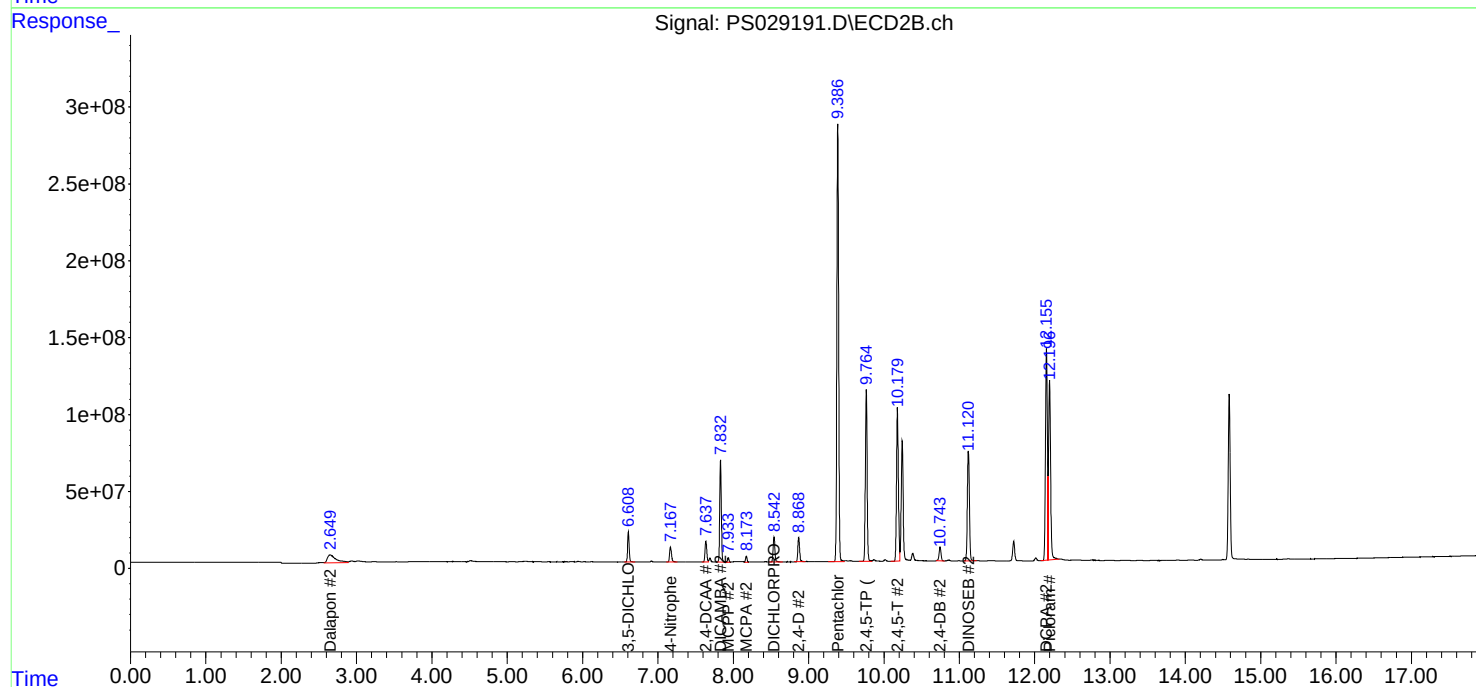
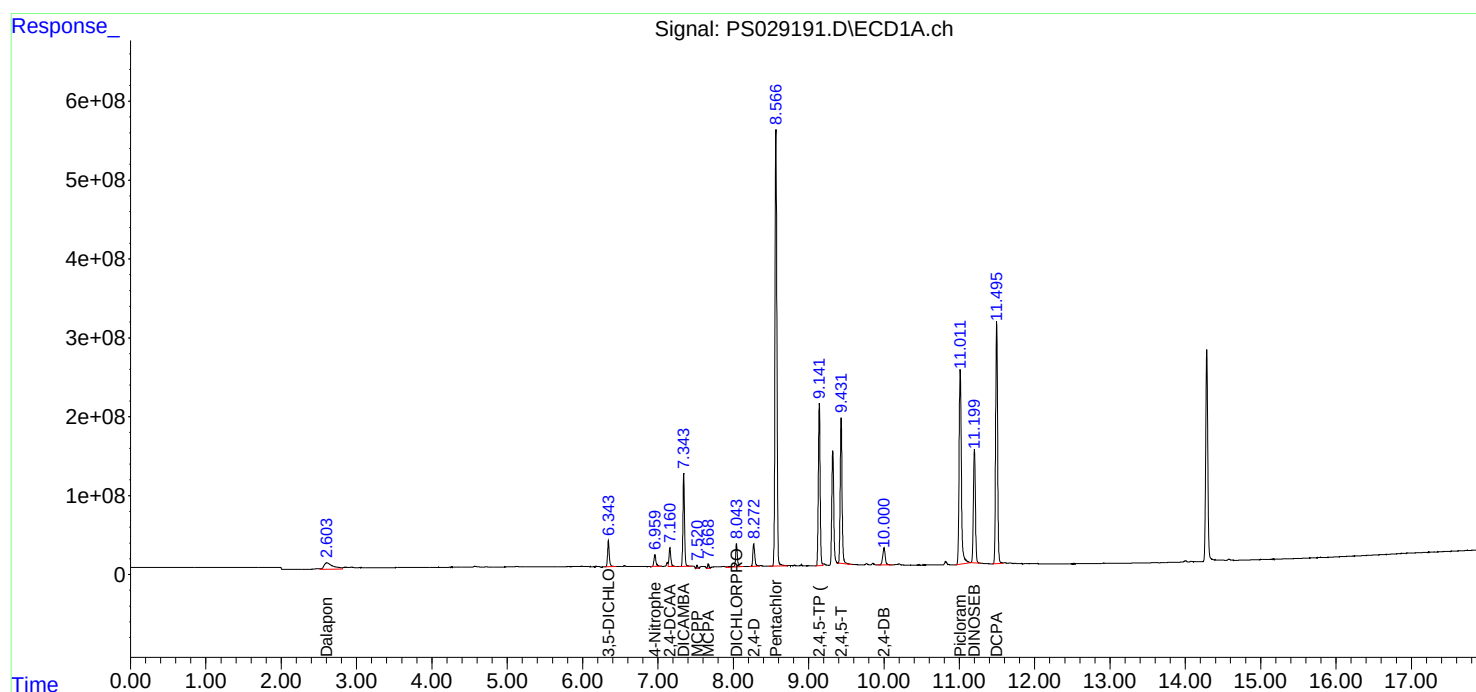
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

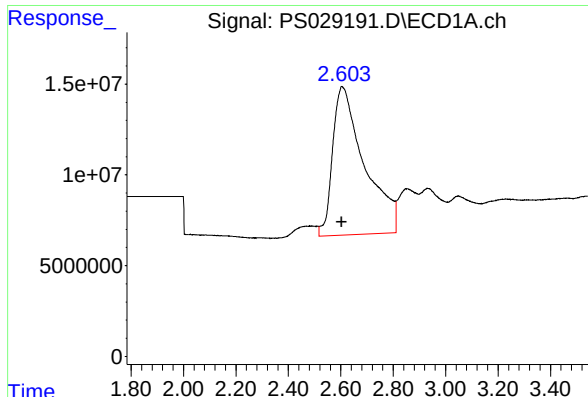
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029191.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 10:21
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 12:35:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Wed Feb 19 12:25:45 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

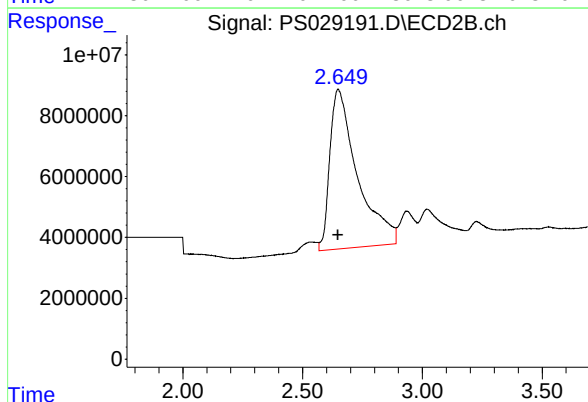




#1 Dalapon

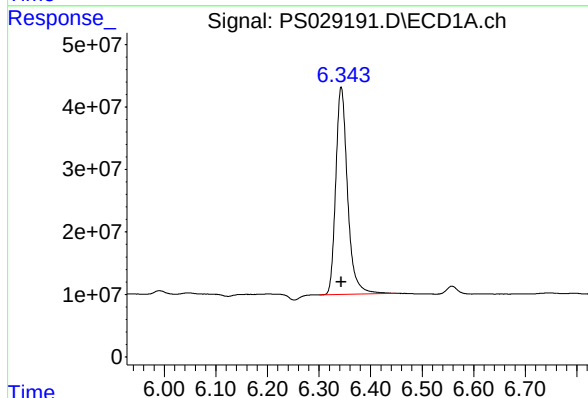
R.T.: 2.604 min
Delta R.T.: 0.000 min
Response: 692073260
Conc: 210.52 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



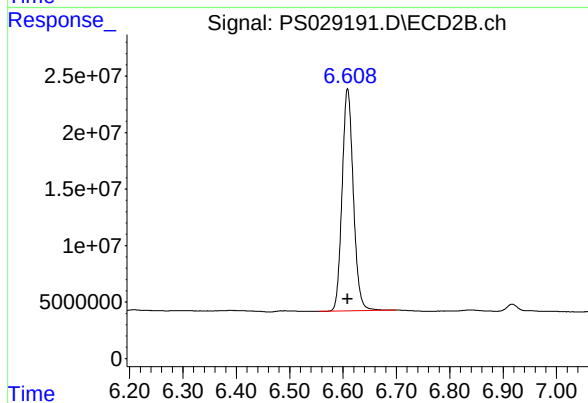
#1 Dalapon

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 421191627
Conc: 198.25 ng/ml



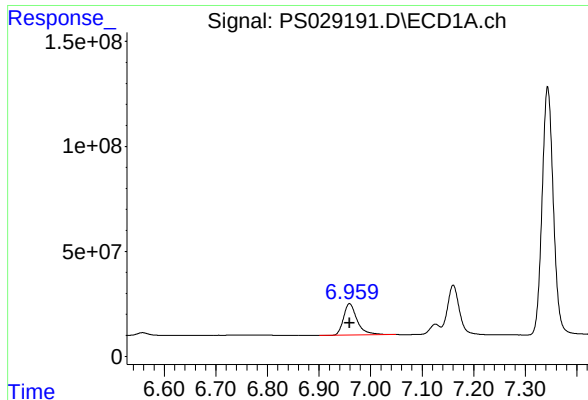
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.343 min
Delta R.T.: 0.000 min
Response: 527321692
Conc: 211.74 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

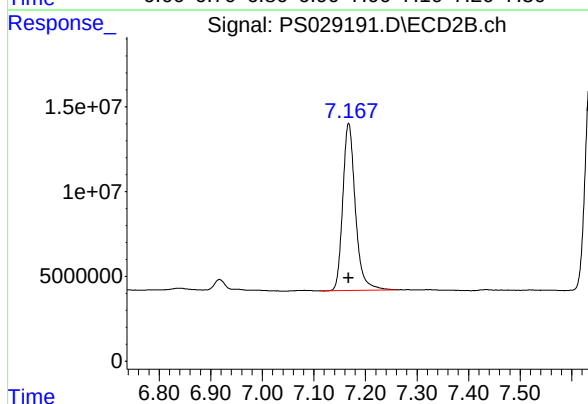
R.T.: 6.609 min
Delta R.T.: 0.000 min
Response: 287784218
Conc: 197.66 ng/ml



#3 4-Nitrophenol

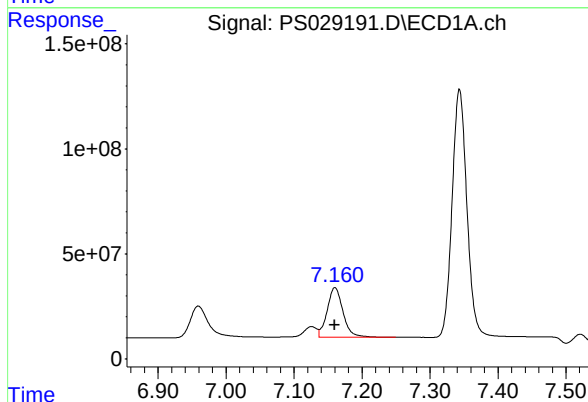
R.T.: 6.959 min
Delta R.T.: 0.000 min
Response: 274850040
Conc: 191.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



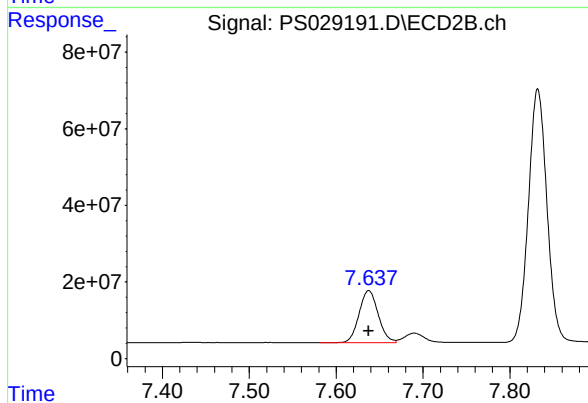
#3 4-Nitrophenol

R.T.: 7.168 min
Delta R.T.: 0.000 min
Response: 167372095
Conc: 195.44 ng/ml



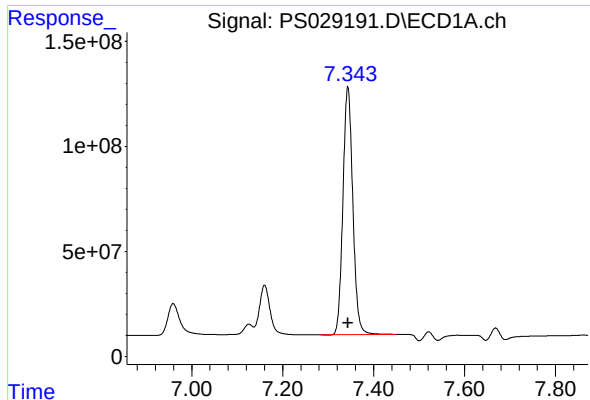
#4 2,4-DCAA

R.T.: 7.160 min
Delta R.T.: 0.000 min
Response: 380560293
Conc: 228.35 ng/ml



#4 2,4-DCAA

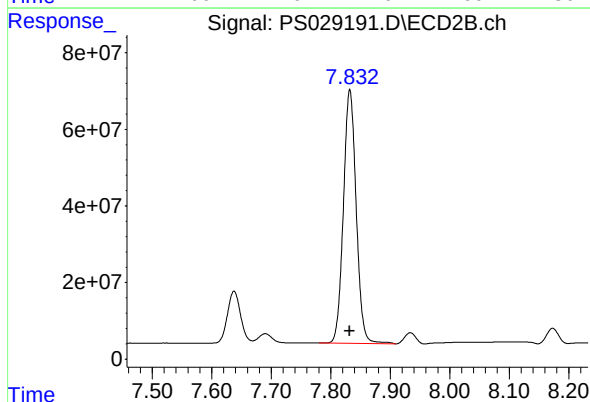
R.T.: 7.638 min
Delta R.T.: 0.000 min
Response: 207291074
Conc: 214.26 ng/ml



#5 DICAMBA

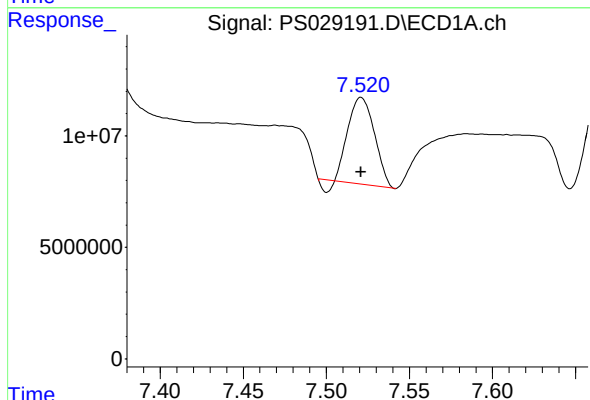
R.T.: 7.343 min
Delta R.T.: 0.000 min
Response: 1780639147
Conc: 202.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



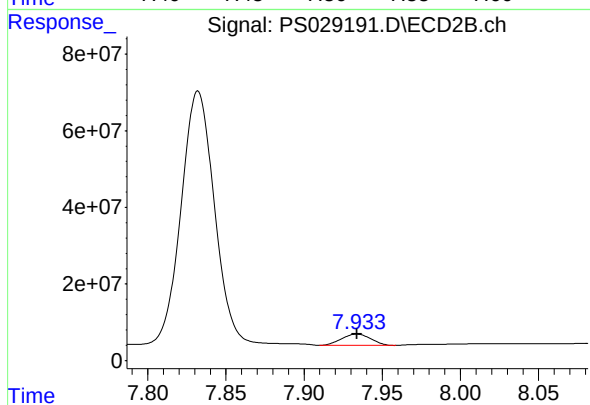
#5 DICAMBA

R.T.: 7.832 min
Delta R.T.: 0.000 min
Response: 989498562
Conc: 187.30 ng/ml



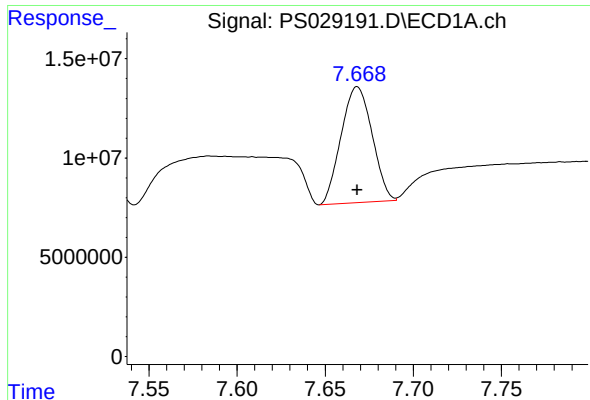
#6 MCPP

R.T.: 7.521 min
Delta R.T.: 0.000 min
Response: 41475758
Conc: 13.16 ug/ml



#6 MCPP

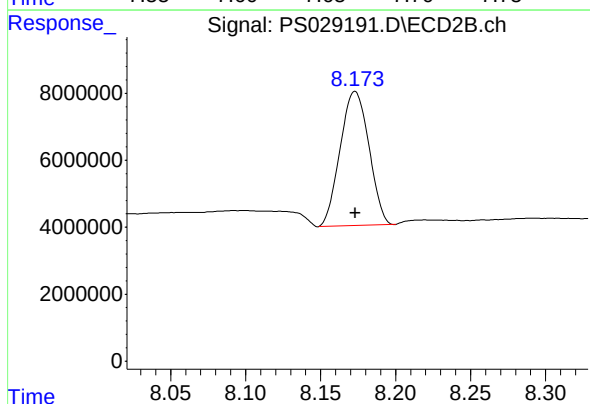
R.T.: 7.934 min
Delta R.T.: 0.000 min
Response: 38167005
Conc: 16.73 ug/ml



#7 MCPA

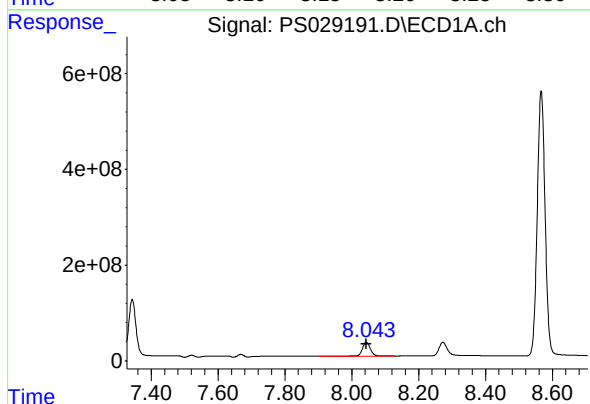
R.T.: 7.668 min
Delta R.T.: 0.000 min
Response: 71544594
Conc: 15.94 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



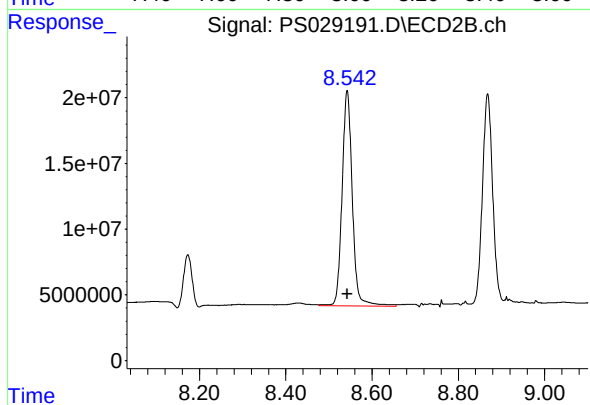
#7 MCPA

R.T.: 8.173 min
Delta R.T.: 0.000 min
Response: 53627402
Conc: 17.02 ug/ml



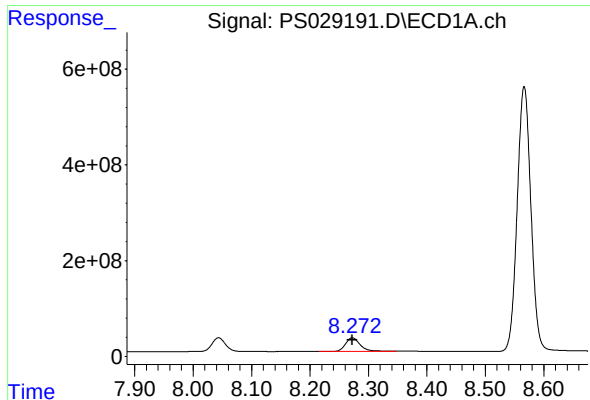
#8 DICHLORPROP

R.T.: 8.044 min
Delta R.T.: 0.000 min
Response: 535301215
Conc: 239.92 ng/ml



#8 DICHLORPROP

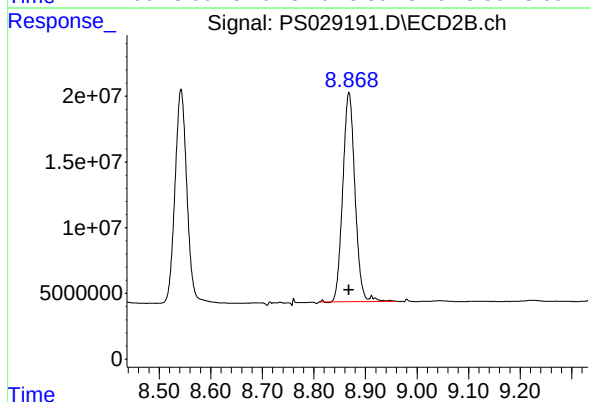
R.T.: 8.542 min
Delta R.T.: 0.000 min
Response: 271444815
Conc: 207.14 ng/ml



#9 2,4-D

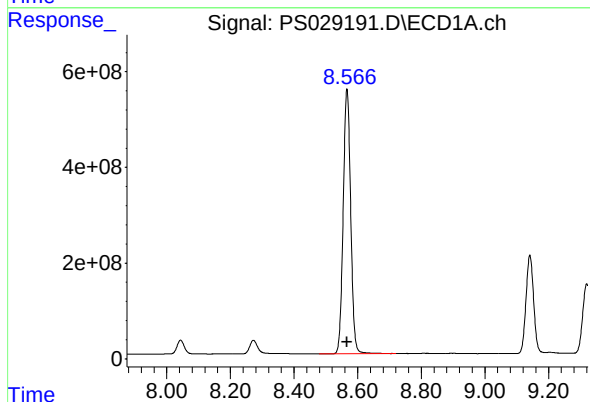
R.T.: 8.273 min
Delta R.T.: 0.000 min
Response: 501543734
Conc: 220.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



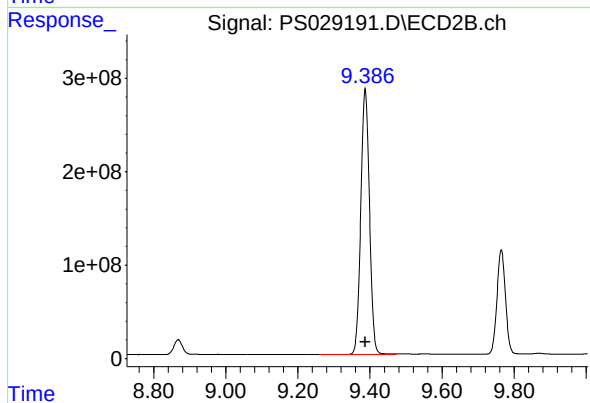
#9 2,4-D

R.T.: 8.868 min
Delta R.T.: 0.000 min
Response: 262581915
Conc: 200.17 ng/ml



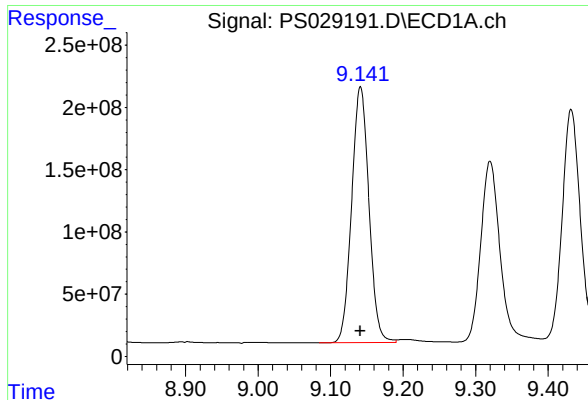
#10 Pentachlorophenol

R.T.: 8.567 min
Delta R.T.: 0.000 min
Response: 9059354490
Conc: 217.60 ng/ml



#10 Pentachlorophenol

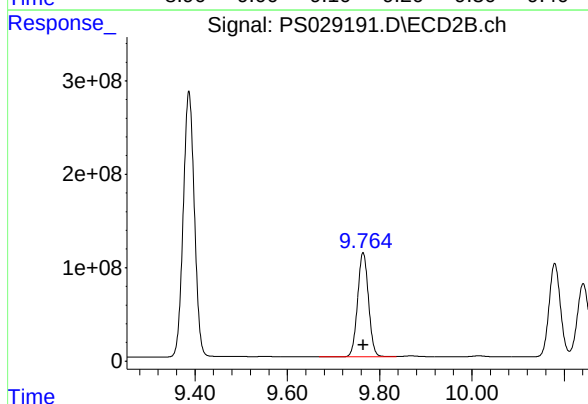
R.T.: 9.387 min
Delta R.T.: 0.000 min
Response: 4746879551
Conc: 199.52 ng/ml



#11 2,4,5-TP (SILVEX)

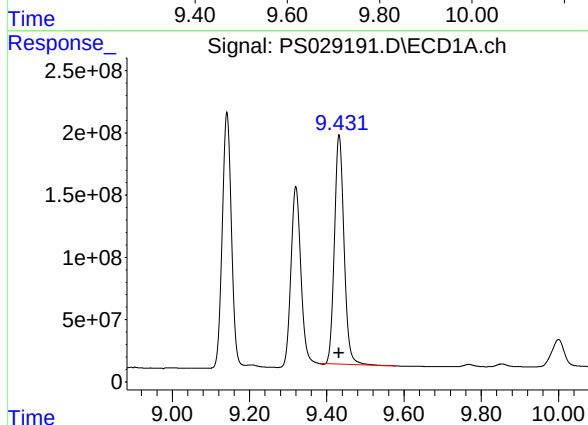
R.T.: 9.141 min
Delta R.T.: 0.000 min
Response: 3402832036
Conc: 211.03 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



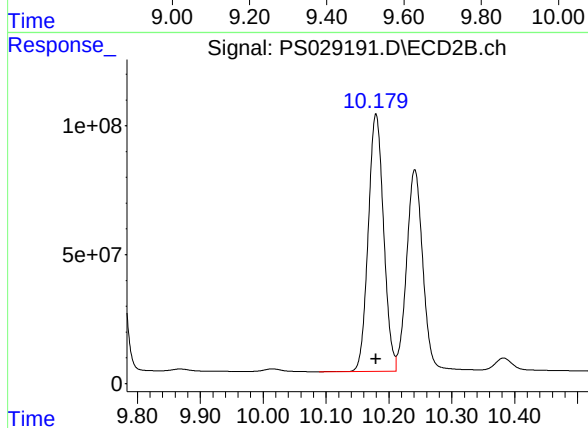
#11 2,4,5-TP (SILVEX)

R.T.: 9.764 min
Delta R.T.: 0.000 min
Response: 1830764493
Conc: 195.25 ng/ml



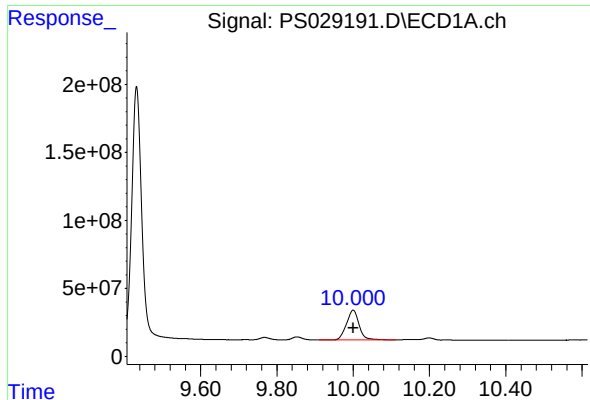
#12 2,4,5-T

R.T.: 9.432 min
Delta R.T.: 0.000 min
Response: 3190153631
Conc: 209.56 ng/ml



#12 2,4,5-T

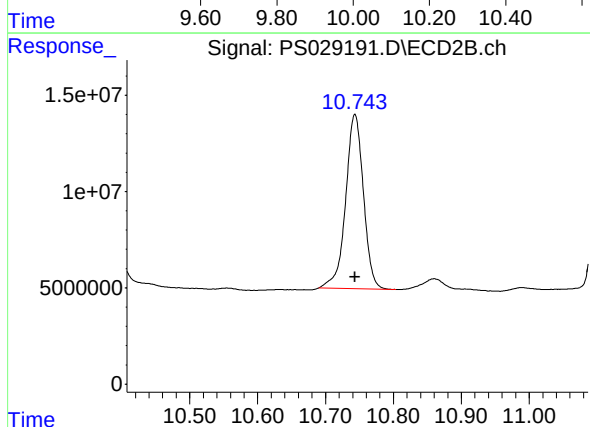
R.T.: 10.179 min
Delta R.T.: 0.000 min
Response: 1695967118
Conc: 195.99 ng/ml



#13 2,4-DB

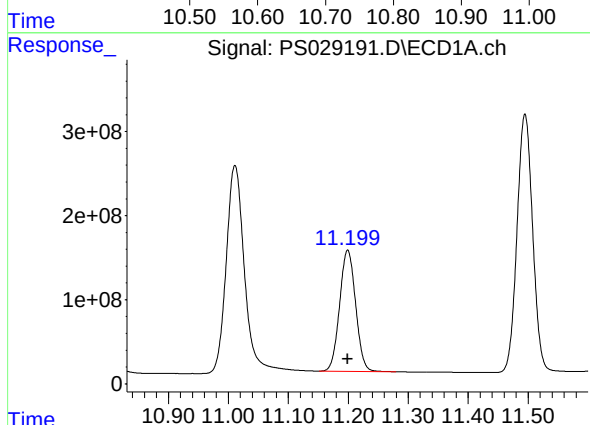
R.T.: 10.000 min
Delta R.T.: 0.000 min
Response: 496681196
Conc: 205.49 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



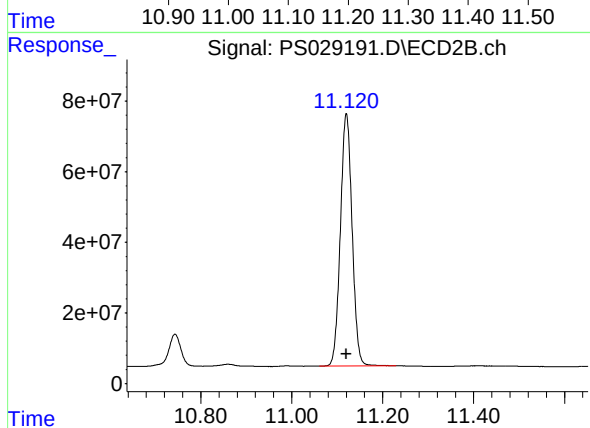
#13 2,4-DB

R.T.: 10.743 min
Delta R.T.: 0.000 min
Response: 164846576
Conc: 192.78 ng/ml



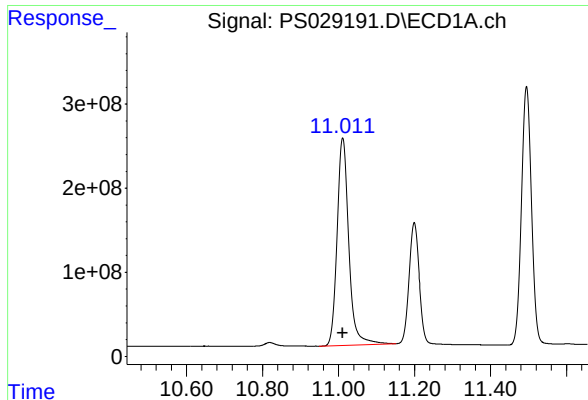
#14 DINOSEB

R.T.: 11.199 min
Delta R.T.: 0.000 min
Response: 2667920306
Conc: 209.98 ng/ml



#14 DINOSEB

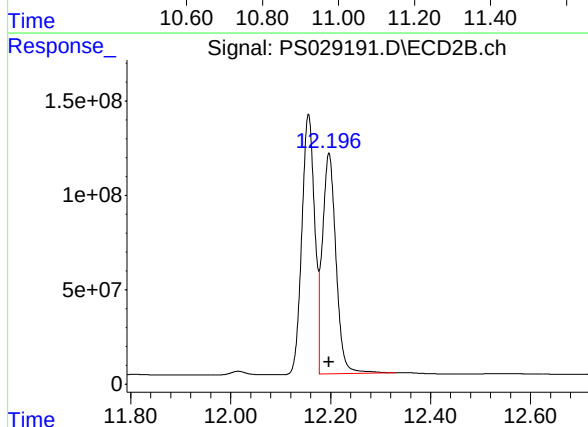
R.T.: 11.120 min
Delta R.T.: 0.000 min
Response: 1277741552
Conc: 197.32 ng/ml



#15 Picloram

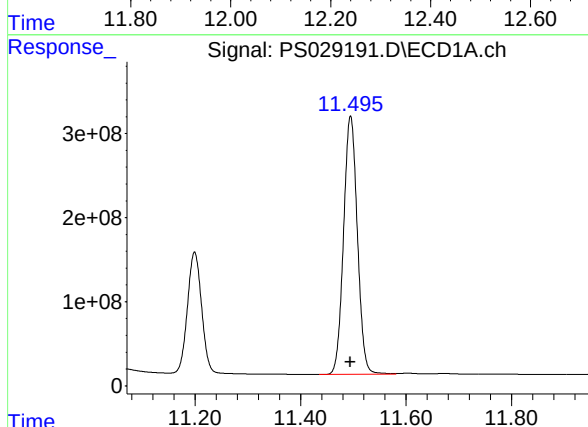
R.T.: 11.011 min
Delta R.T.: 0.000 min
Response: 5213802496
Conc: 199.51 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



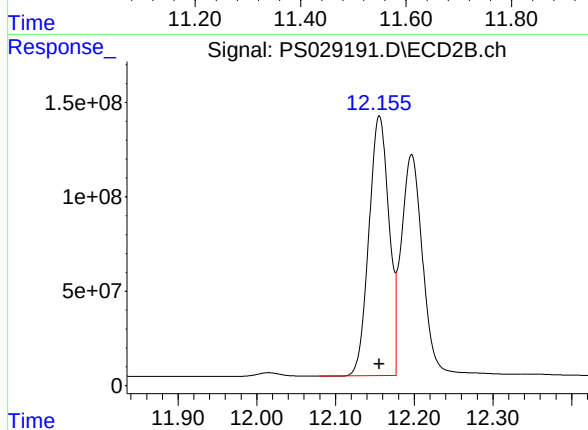
#15 Picloram

R.T.: 12.197 min
Delta R.T.: 0.000 min
Response: 2210418113
Conc: 176.27 ng/ml



#16 DCPA

R.T.: 11.495 min
Delta R.T.: 0.000 min
Response: 5586533278
Conc: 213.60 ng/ml



#16 DCPA

R.T.: 12.156 min
Delta R.T.: 0.000 min
Response: 2436771395
Conc: 196.16 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029192.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 10:45
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 19 12:33:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Wed Feb 19 12:25:45 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.158	7.639	882.2E6	504.2E6	548.828	530.651
Target Compounds							
1) T	Dalapon	2.604	2.651	1546.6E6	1011.5E6	489.633	486.981
2) T	3,5-DICHL...	6.341	6.610	1227.2E6	708.7E6	510.426	494.489
3) T	4-Nitroph...	6.956	7.168	680.7E6	405.1E6	481.112	481.978
5) T	DICAMBA	7.342	7.833	4351.2E6	2581.7E6	505.899	488.219
6) T	MCPD	7.522	7.938	160.2E6	111.4E6	47.275	47.520
7) T	MCPA	7.670	8.177	218.7E6	152.8E6	47.045	47.478
8) T	DICHLORPROP	8.042	8.543	1080.4E6	638.9E6	520.155	500.265
9) T	2,4-D	8.270	8.869	1127.1E6	643.7E6	518.334	498.784
10) T	Pentachlo...	8.565	9.388	21911.4E6	12107.3E6	546.131	515.347
11) T	2,4,5-TP ...	9.139	9.765	8167.0E6	4701.6E6	520.900	504.919
12) T	2,4,5-T	9.429	10.181	7706.0E6	4323.4E6	519.592	503.580
13) T	2,4-DB	9.997	10.744	1205.6E6	420.4E6	509.155	493.394
14) T	DINOSEB	11.196	11.121	6336.4E6	3189.4E6	513.715	498.694
15) T	Picloram	11.008	12.198	13066.2E6	6236.7E6	506.322	488.504
16) T	DCPA	11.492	12.156	13453.2E6	6316.7E6	529.253	511.278

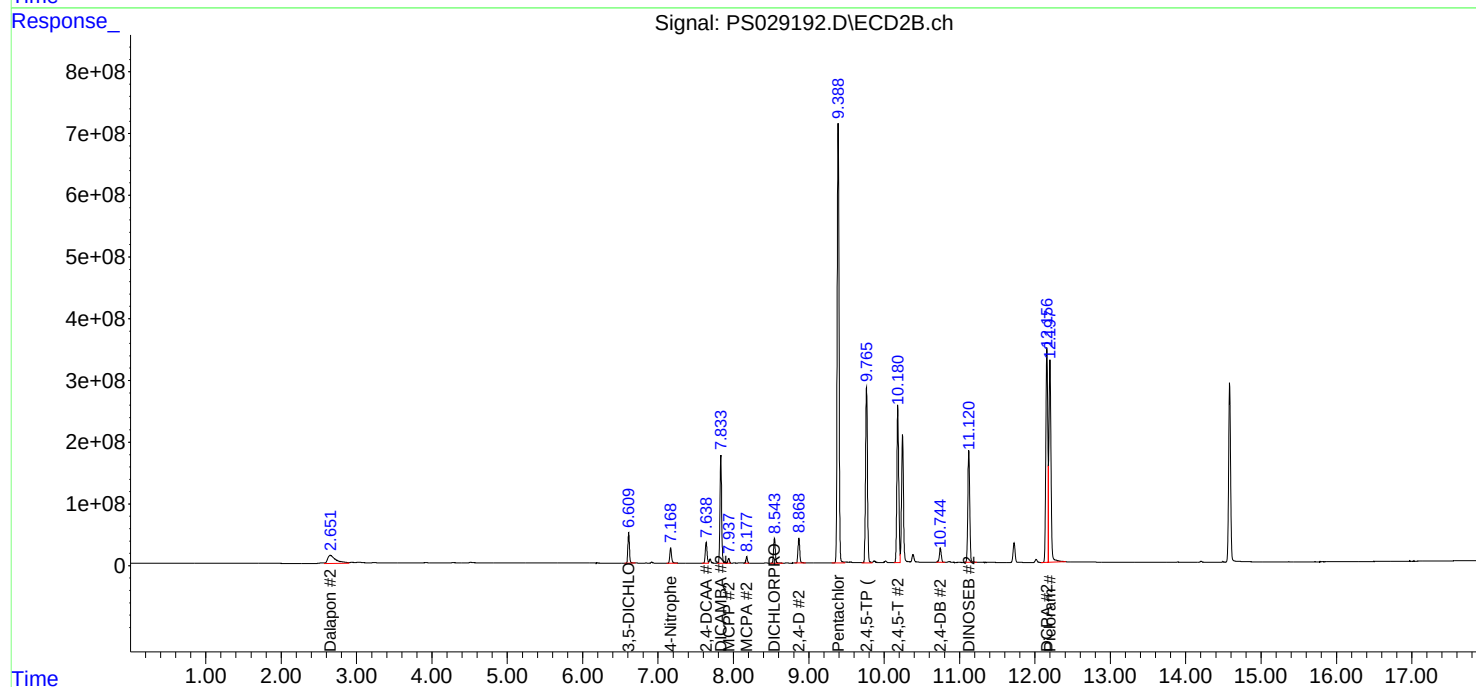
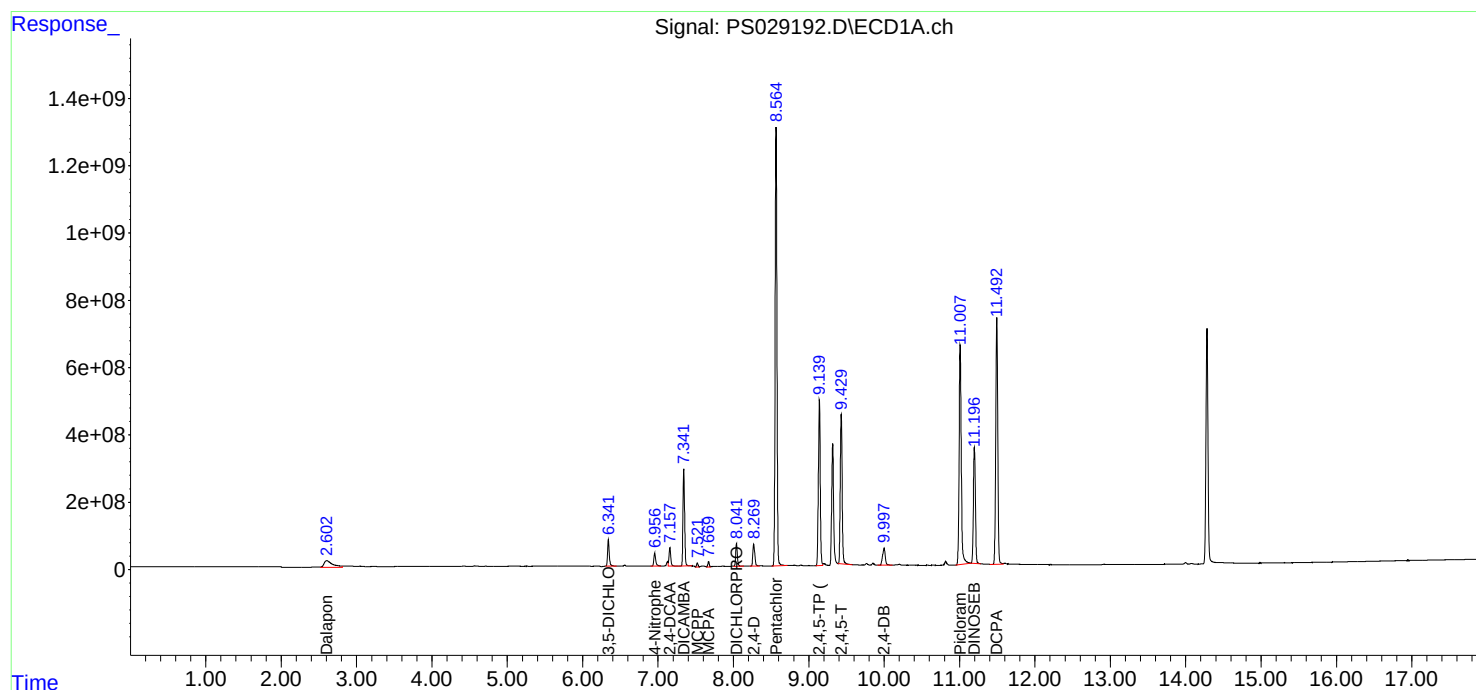
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

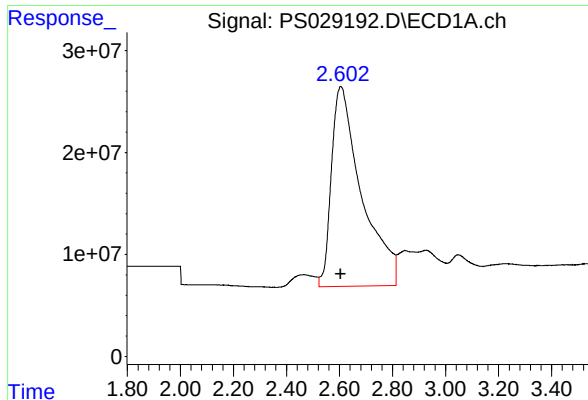
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029192.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 10:45
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 12:33:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Wed Feb 19 12:25:45 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

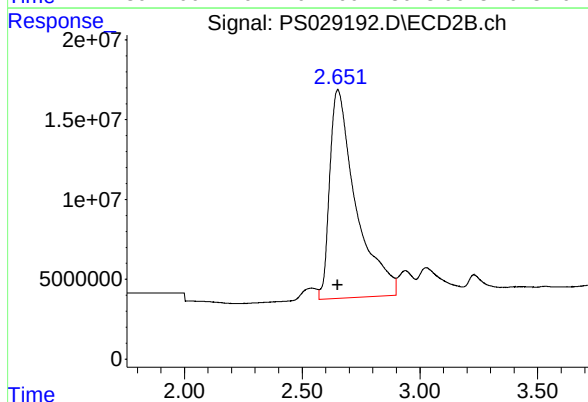




#1 Dalapon

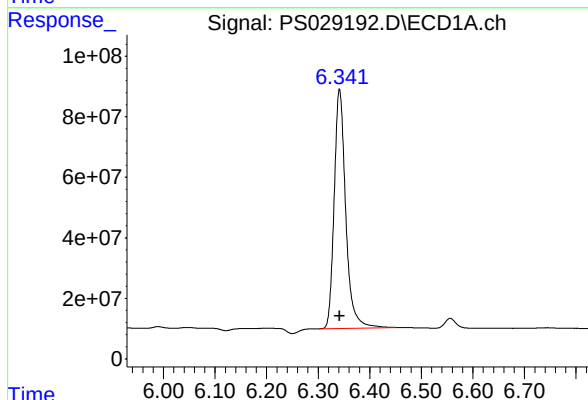
R.T.: 2.604 min
Delta R.T.: 0.000 min
Response: 1546611013
Conc: 489.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



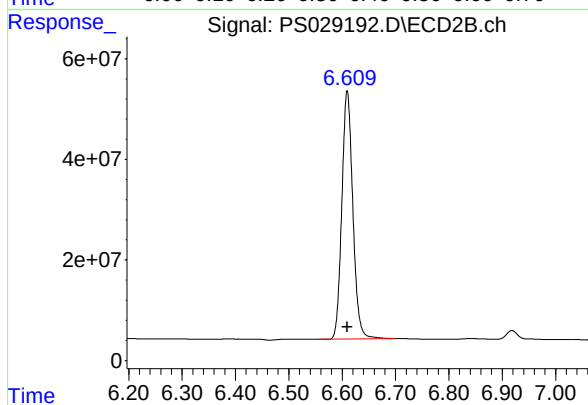
#1 Dalapon

R.T.: 2.651 min
Delta R.T.: 0.000 min
Response: 1011500464
Conc: 486.98 ng/ml



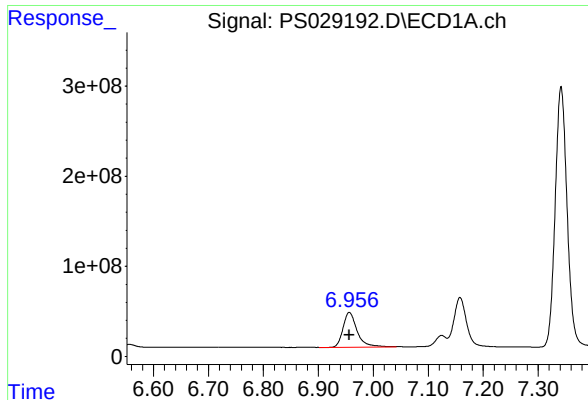
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 1227210902
Conc: 510.43 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

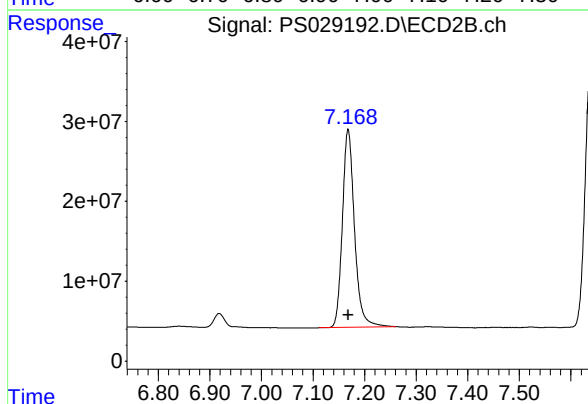
R.T.: 6.610 min
Delta R.T.: 0.000 min
Response: 708674397
Conc: 494.49 ng/ml



#3 4-Nitrophenol

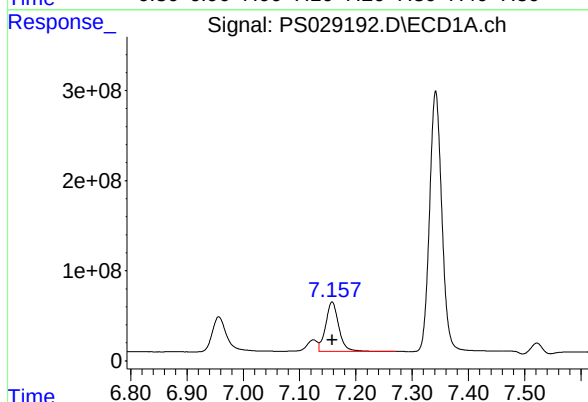
R.T.: 6.956 min
Delta R.T.: 0.000 min
Response: 680667437
Conc: 481.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



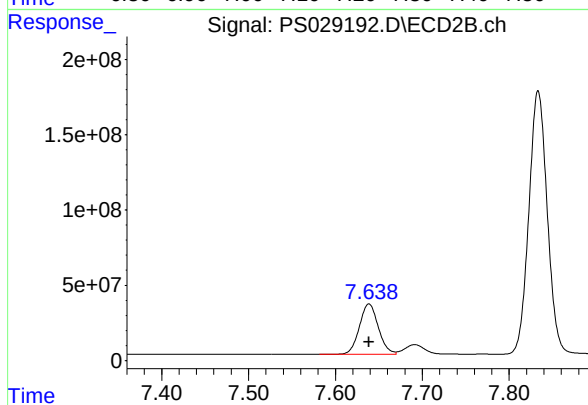
#3 4-Nitrophenol

R.T.: 7.168 min
Delta R.T.: 0.000 min
Response: 405134181
Conc: 481.98 ng/ml



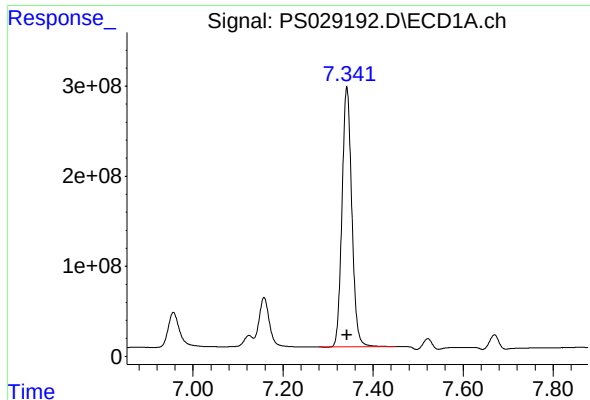
#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: 0.000 min
Response: 882238236
Conc: 548.83 ng/ml



#4 2,4-DCAA

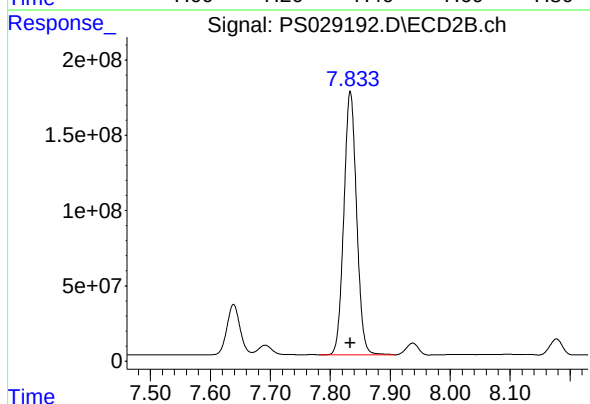
R.T.: 7.639 min
Delta R.T.: 0.000 min
Response: 504237025
Conc: 530.65 ng/ml



#5 DICAMBA

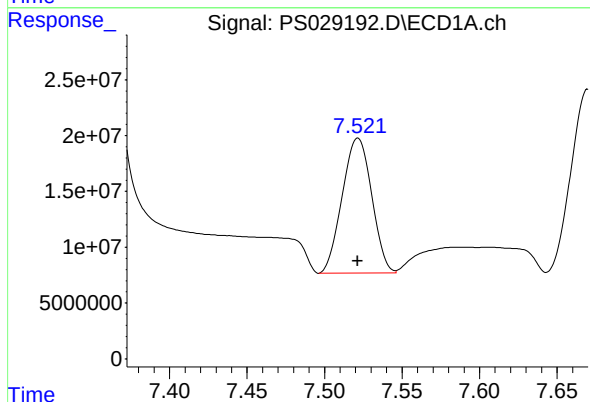
R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 4351150296
Conc: 505.90 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



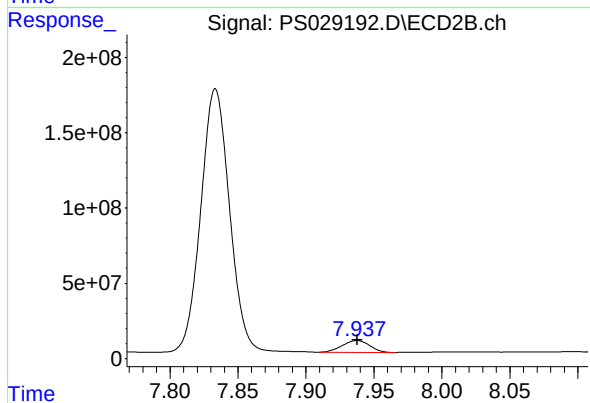
#5 DICAMBA

R.T.: 7.833 min
Delta R.T.: 0.000 min
Response: 2581651011
Conc: 488.22 ng/ml



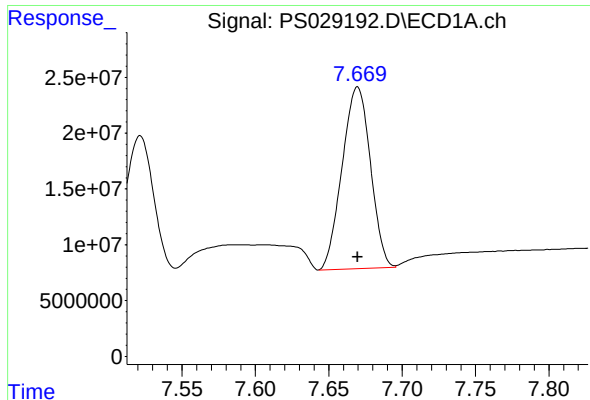
#6 MCPP

R.T.: 7.522 min
Delta R.T.: 0.000 min
Response: 160212242
Conc: 47.27 ug/ml



#6 MCPP

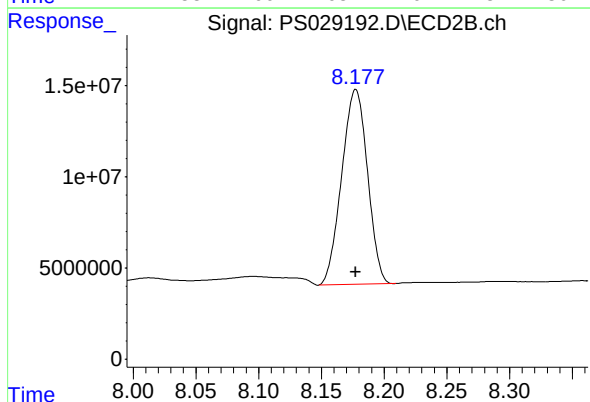
R.T.: 7.938 min
Delta R.T.: 0.000 min
Response: 111397793
Conc: 47.52 ug/ml



#7 MCPA

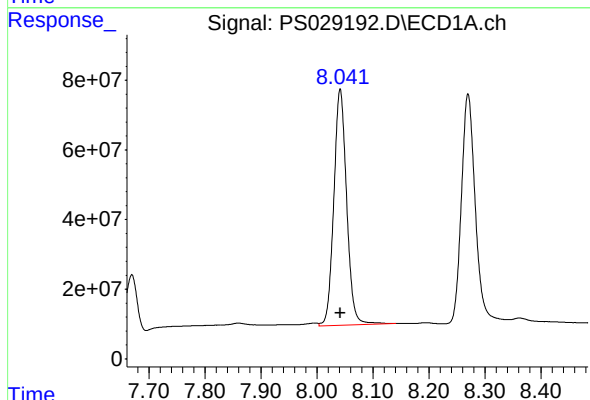
R.T.: 7.670 min
Delta R.T.: 0.000 min
Response: 218723394
Conc: 47.04 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



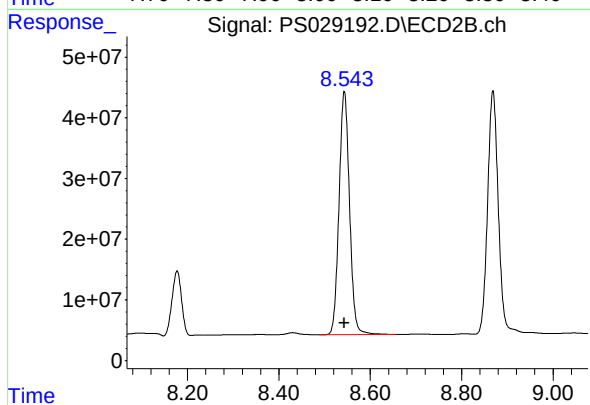
#7 MCPA

R.T.: 8.177 min
Delta R.T.: 0.000 min
Response: 152824362
Conc: 47.48 ug/ml



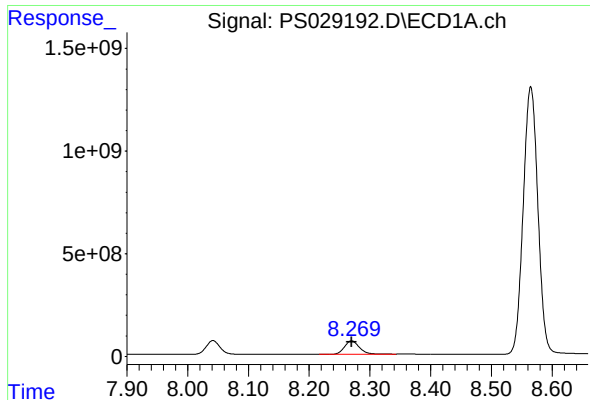
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 1080446760
Conc: 520.15 ng/ml



#8 DICHLORPROP

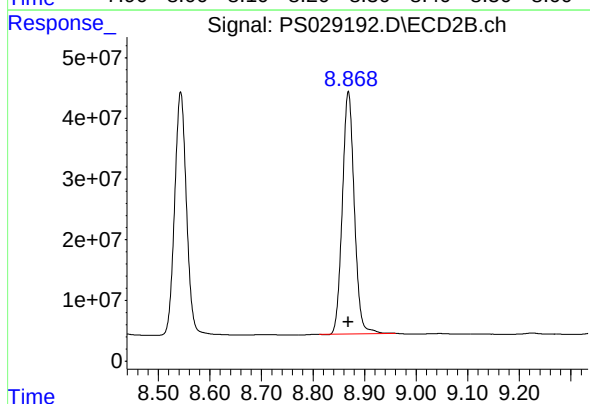
R.T.: 8.543 min
Delta R.T.: 0.000 min
Response: 638876440
Conc: 500.26 ng/ml



#9 2,4-D

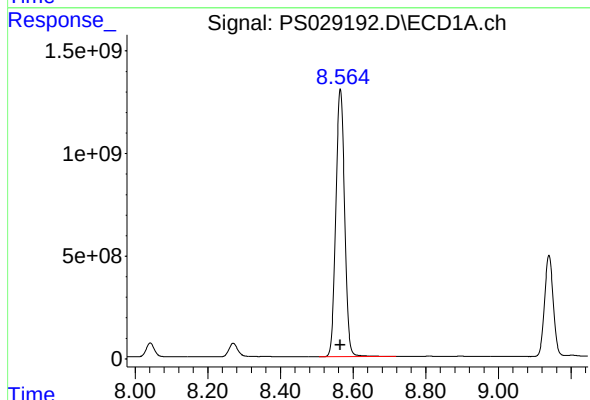
R.T.: 8.270 min
Delta R.T.: 0.000 min
Response: 1127059953
Conc: 518.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



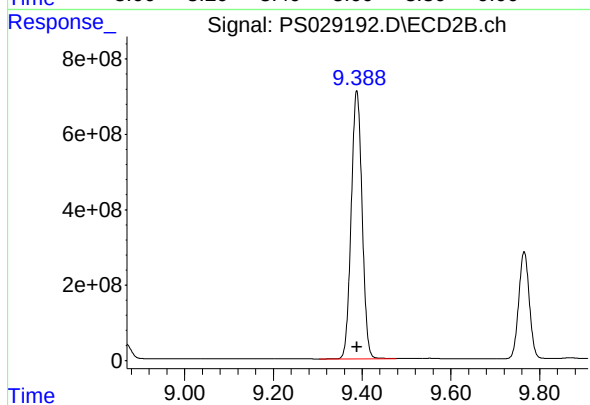
#9 2,4-D

R.T.: 8.869 min
Delta R.T.: 0.000 min
Response: 643708071
Conc: 498.78 ng/ml



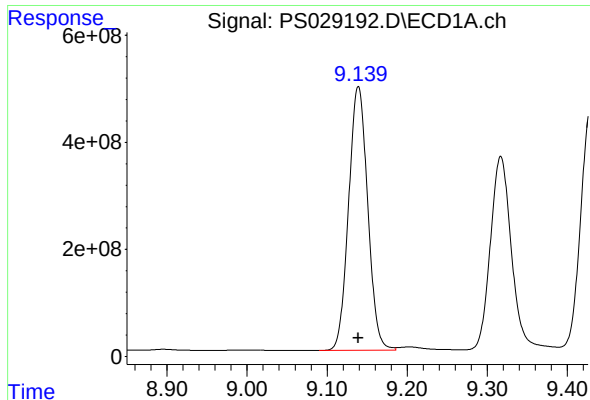
#10 Pentachlorophenol

R.T.: 8.565 min
Delta R.T.: 0.000 min
Response: 21911361253
Conc: 546.13 ng/ml



#10 Pentachlorophenol

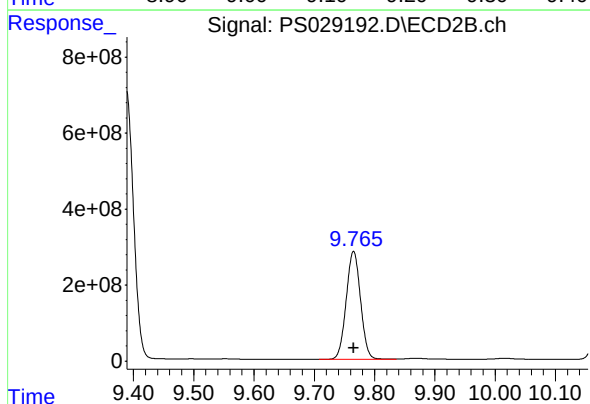
R.T.: 9.388 min
Delta R.T.: 0.000 min
Response: 12107325587
Conc: 515.35 ng/ml



#11 2,4,5-TP (SILVEX)

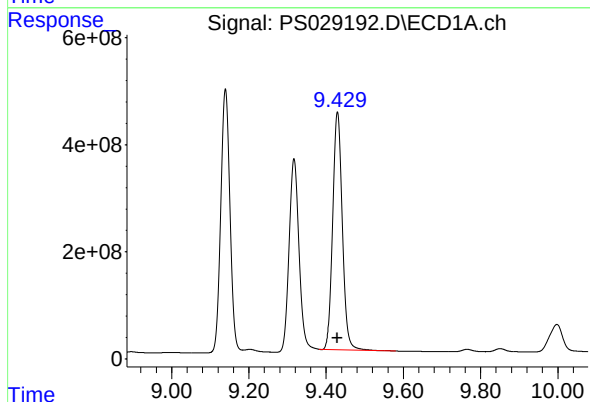
R.T.: 9.139 min
Delta R.T.: 0.000 min
Response: 8167032842
Conc: 520.90 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



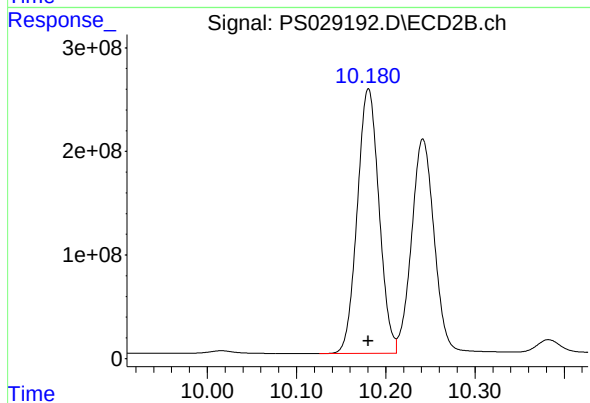
#11 2,4,5-TP (SILVEX)

R.T.: 9.765 min
Delta R.T.: 0.000 min
Response: 4701626591
Conc: 504.92 ng/ml



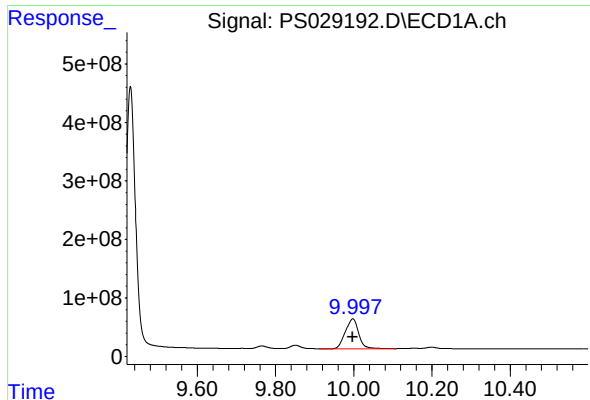
#12 2,4,5-T

R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 7706035015
Conc: 519.59 ng/ml



#12 2,4,5-T

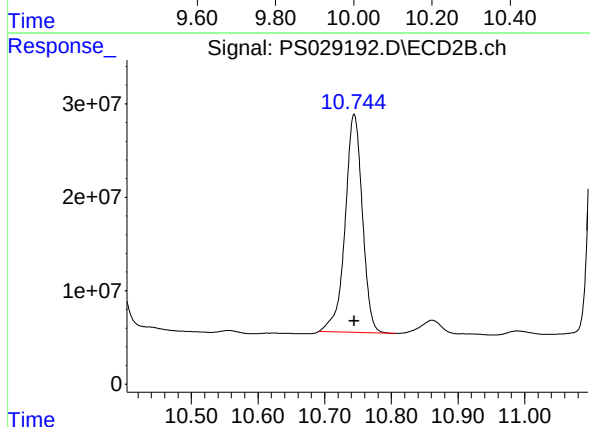
R.T.: 10.181 min
Delta R.T.: 0.000 min
Response: 4323401482
Conc: 503.58 ng/ml



#13 2,4-DB

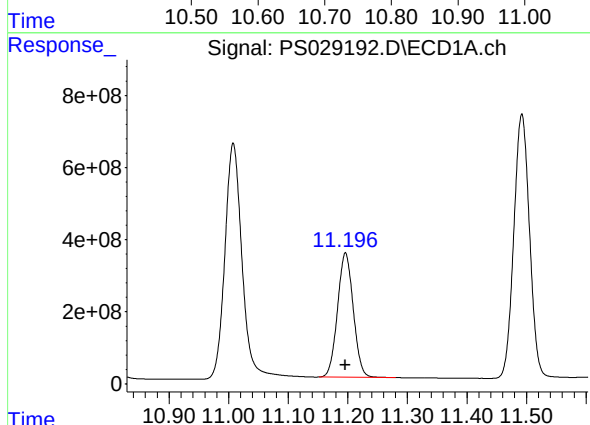
R.T.: 9.997 min
Delta R.T.: 0.000 min
Response: 1205589939
Conc: 509.15 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



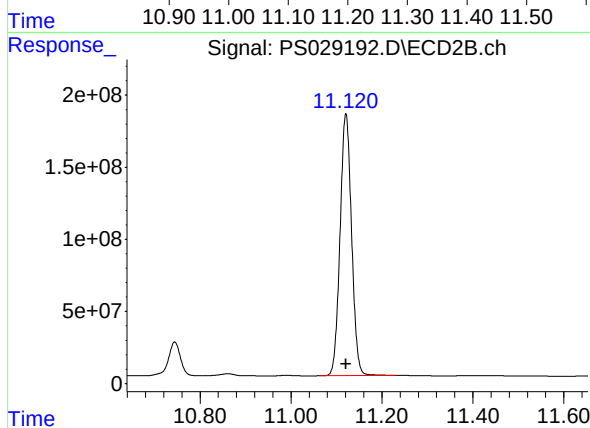
#13 2,4-DB

R.T.: 10.744 min
Delta R.T.: 0.000 min
Response: 420360123
Conc: 493.39 ng/ml



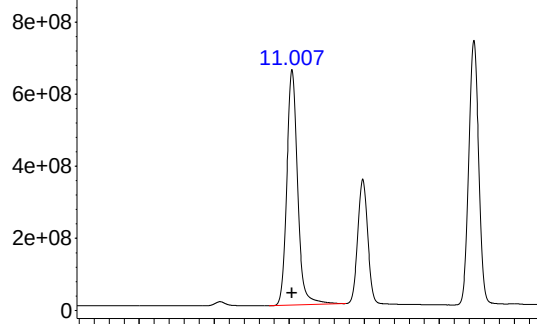
#14 DINOSEB

R.T.: 11.196 min
Delta R.T.: 0.000 min
Response: 6336442912
Conc: 513.71 ng/ml



#14 DINOSEB

R.T.: 11.121 min
Delta R.T.: 0.000 min
Response: 3189351296
Conc: 498.69 ng/ml



R.T.: 11.008 min
Delta R.T.: 0.000 min
Response: 13066249123
Conc: 506.32 ng/ml

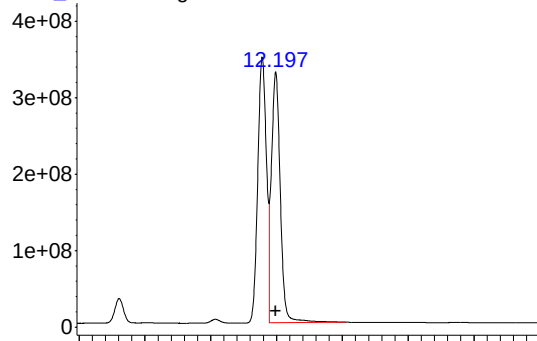
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_

Signal: PS029192.D\ECD2B.ch

#15 Picloram



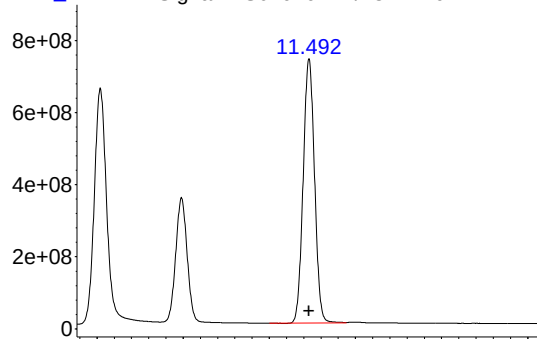
R.T.: 12.198 min
Delta R.T.: 0.000 min
Response: 6236653178
Conc: 488.50 ng/ml

Time

Response_

Signal: PS029192.D\ECD1A.ch

#16 DCPA



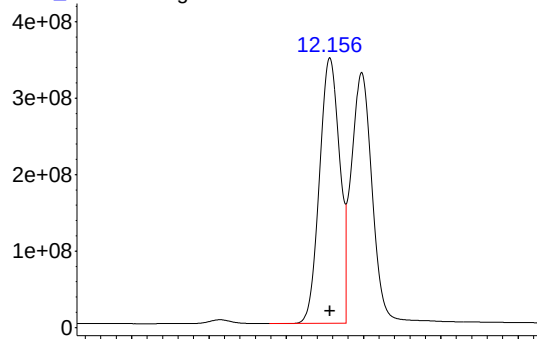
R.T.: 11.492 min
Delta R.T.: 0.000 min
Response: 13453224414
Conc: 529.25 ng/ml

Time

Response_

Signal: PS029192.D\ECD2B.ch

#16 DCPA



R.T.: 12.156 min
Delta R.T.: 0.000 min
Response: 6316710919
Conc: 511.28 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029193.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 11:09
 Operator : AR\AJ
 Sample : HSTDICC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 19 12:26:04 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Wed Feb 19 12:25:45 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.159	7.639	1187.7E6	696.4E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.604	2.653	2105.0E6	1371.7E6	682.500	682.500
2) T	3,5-DICHL...	6.342	6.610	1654.7E6	979.3E6	697.500	697.500
3) T	4-Nitroph...	6.956	7.168	941.0E6	559.1E6	682.500	682.500
5) T	DICAMBA	7.342	7.834	5974.1E6	3631.5E6	705.000	705.000
6) T	MCPD	7.524	7.940	229.4E6	160.0E6	70.500	70.500
7) T	MCPA	7.672	8.180	313.2E6	217.4E6	69.750	69.750
8) T	DICHLORPROP	8.042	8.544	1447.1E6	882.0E6	705.000	705.000
9) T	2,4-D	8.270	8.869	1511.8E6	886.9E6	705.000	705.000
10) T	Pentachlo...	8.565	9.389	29620.7E6	16600.1E6	712.500	712.500
11) T	2,4,5-TP ...	9.139	9.766	11083.2E6	6523.2E6	712.500	712.500
12) T	2,4,5-T	9.429	10.181	10446.5E6	6002.1E6	712.500	712.500
13) T	2,4-DB	9.998	10.745	1654.8E6	591.4E6	712.500	712.500
14) T	DINOSEB	11.197	11.121	8565.2E6	4404.6E6	705.000	705.000
15) T	Picloram	11.007	12.198	18005.9E6	8839.7E6	712.500	712.500
16) T	DCPA	11.492	12.157	18205.1E6	8780.6E6	720.000	720.000

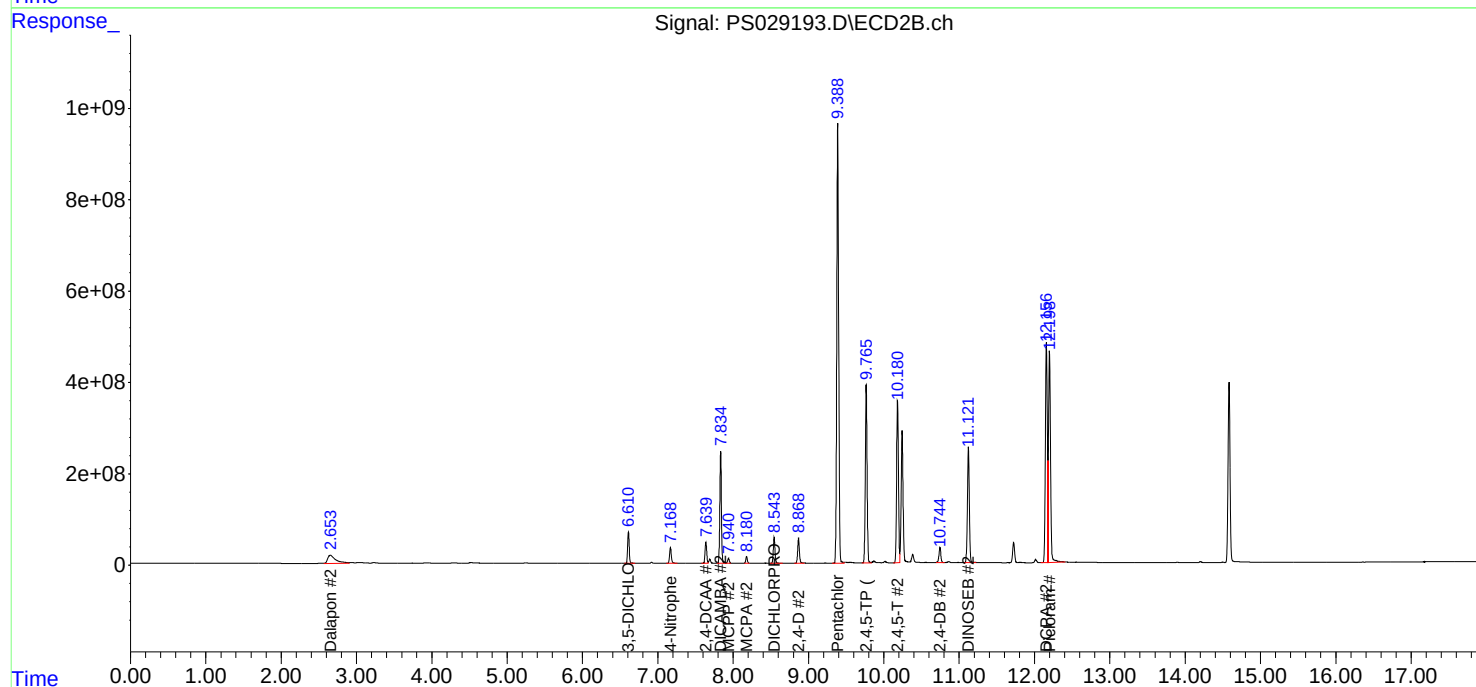
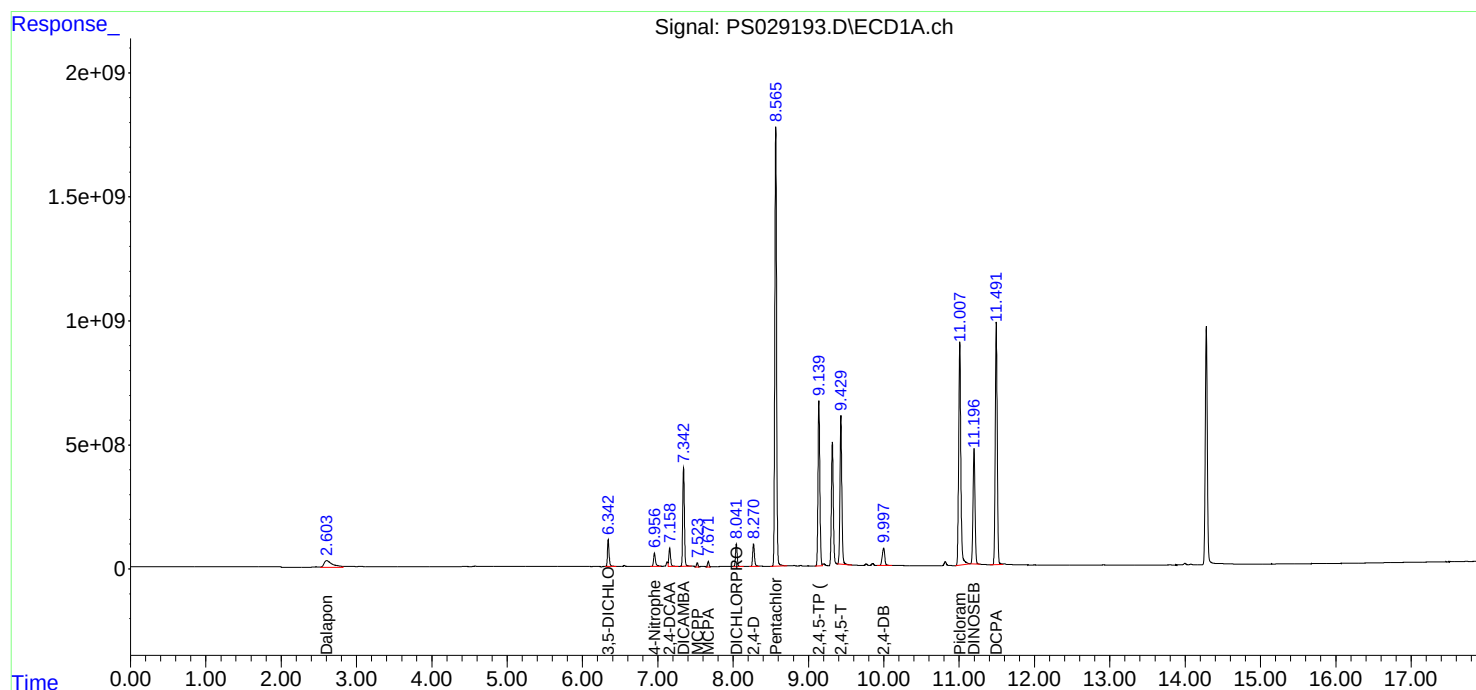
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

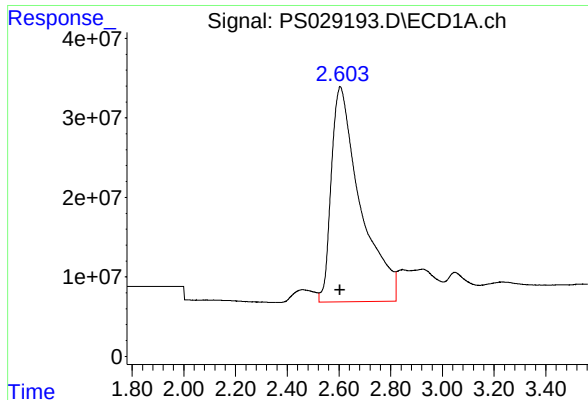
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029193.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 11:09
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 12:26:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Wed Feb 19 12:25:45 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

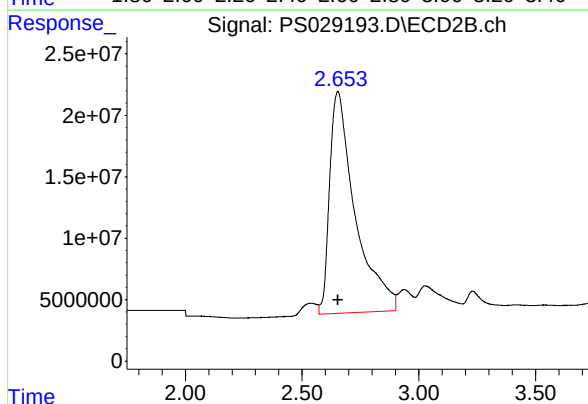




#1 Dalapon

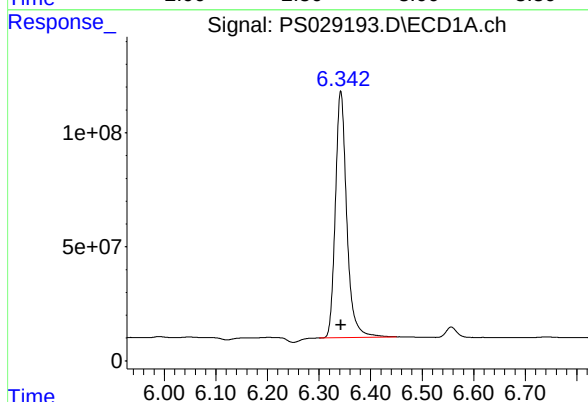
R.T.: 2.604 min
Delta R.T.: 0.000 min
Response: 2105009913
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



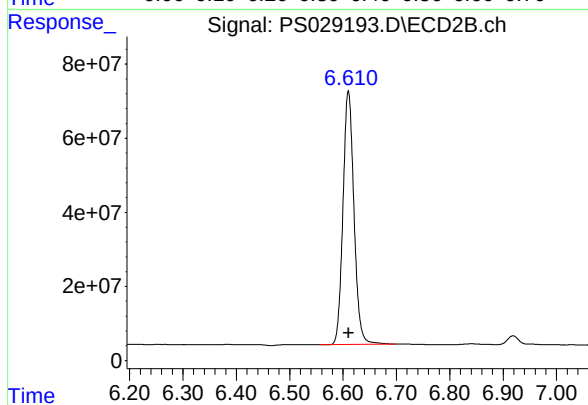
#1 Dalapon

R.T.: 2.653 min
Delta R.T.: 0.000 min
Response: 1371735993
Conc: 682.50 ng/ml



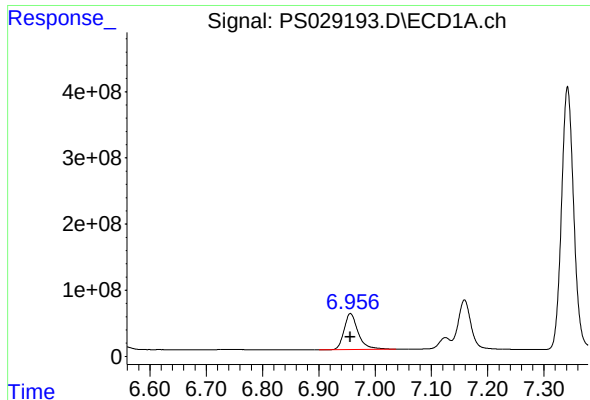
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.342 min
Delta R.T.: 0.000 min
Response: 1654686932
Conc: 697.50 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

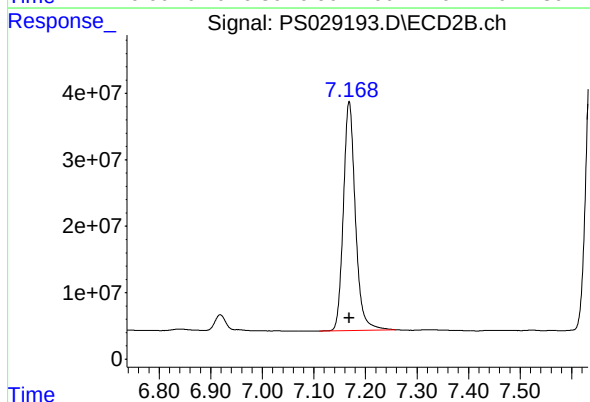
R.T.: 6.610 min
Delta R.T.: 0.000 min
Response: 979254580
Conc: 697.50 ng/ml



#3 4-Nitrophenol

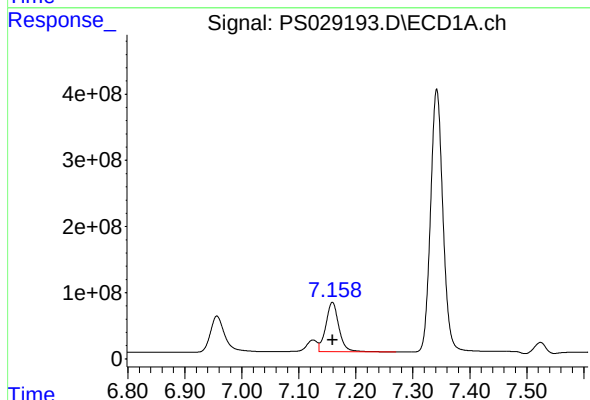
R.T.: 6.956 min
Delta R.T.: 0.000 min
Response: 940969851
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



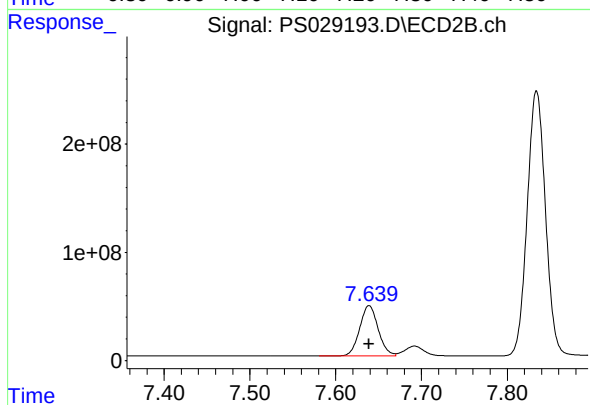
#3 4-Nitrophenol

R.T.: 7.168 min
Delta R.T.: 0.000 min
Response: 559074015
Conc: 682.50 ng/ml



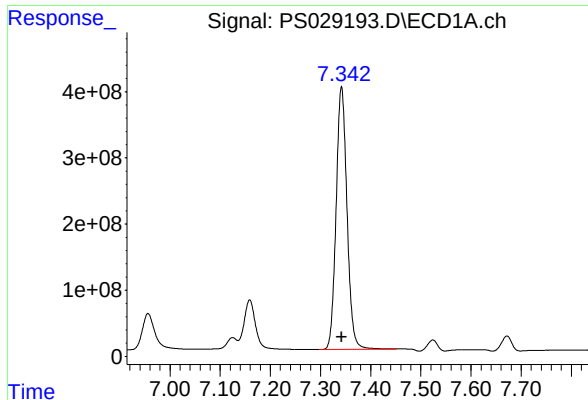
#4 2,4-DCAA

R.T.: 7.159 min
Delta R.T.: 0.000 min
Response: 1187738125
Conc: 750.00 ng/ml



#4 2,4-DCAA

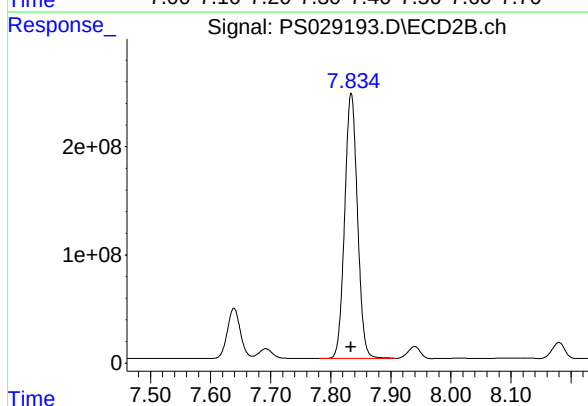
R.T.: 7.639 min
Delta R.T.: 0.000 min
Response: 696401745
Conc: 750.00 ng/ml



#5 DICAMBA

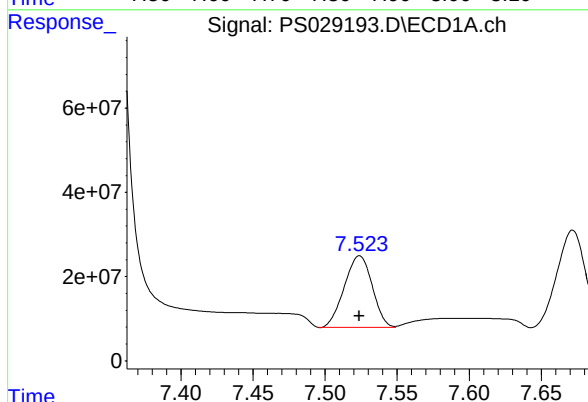
R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 5974056507
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



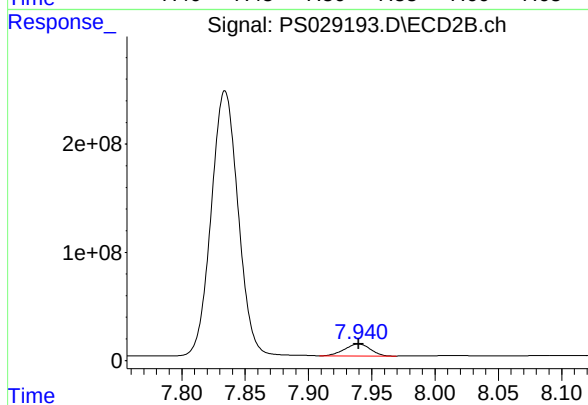
#5 DICAMBA

R.T.: 7.834 min
Delta R.T.: 0.000 min
Response: 3631480657
Conc: 705.00 ng/ml



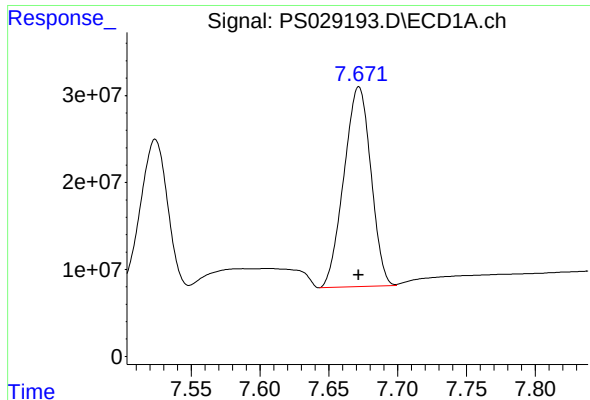
#6 MCPP

R.T.: 7.524 min
Delta R.T.: 0.000 min
Response: 229430746
Conc: 70.50 ug/ml



#6 MCPP

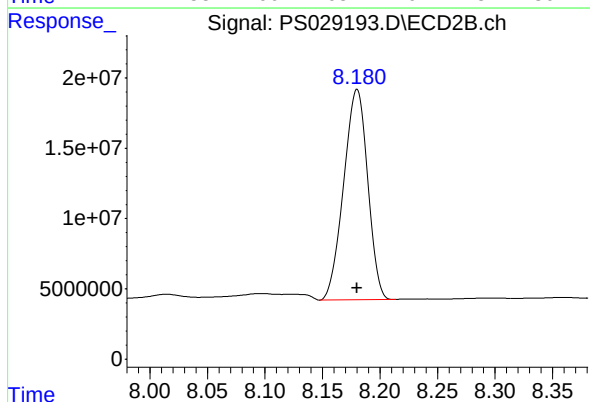
R.T.: 7.940 min
Delta R.T.: 0.000 min
Response: 159976926
Conc: 70.50 ug/ml



#7 MCPA

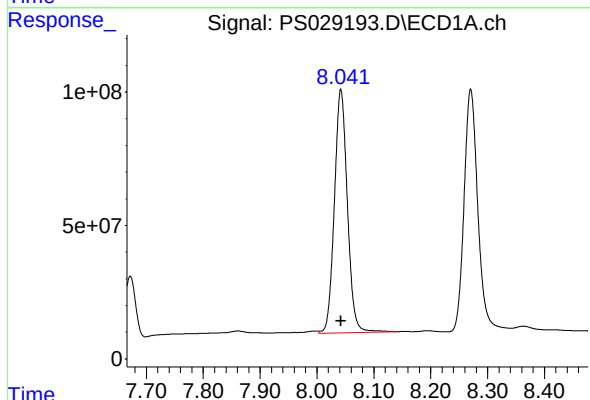
R.T.: 7.672 min
Delta R.T.: 0.000 min
Response: 313227532
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



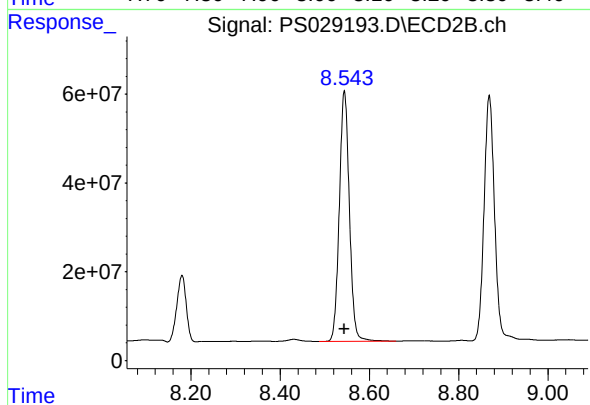
#7 MCPA

R.T.: 8.180 min
Delta R.T.: 0.000 min
Response: 217399962
Conc: 69.75 ug/ml



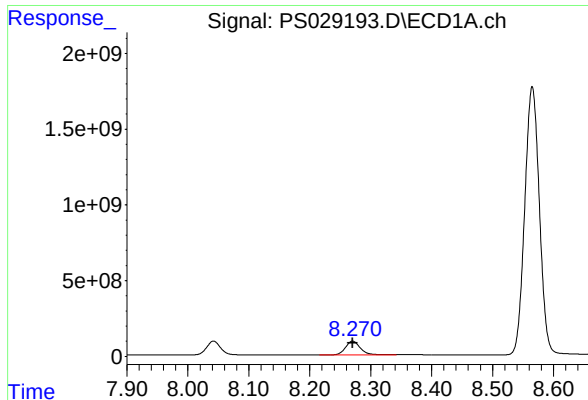
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 1447135783
Conc: 705.00 ng/ml



#8 DICHLORPROP

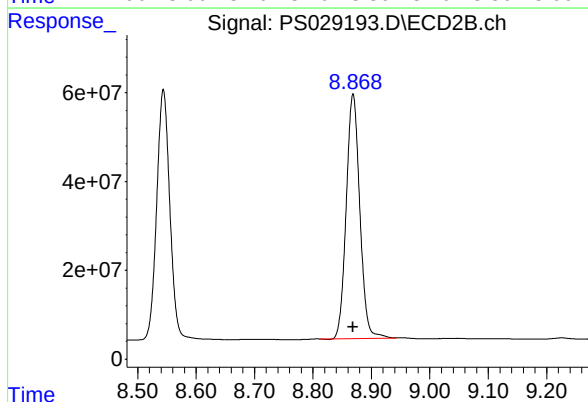
R.T.: 8.544 min
Delta R.T.: 0.000 min
Response: 881966125
Conc: 705.00 ng/ml



#9 2,4-D

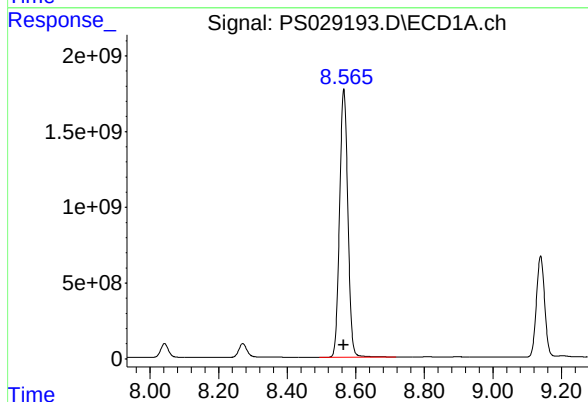
R.T.: 8.270 min
Delta R.T.: 0.000 min
Response: 1511788445
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



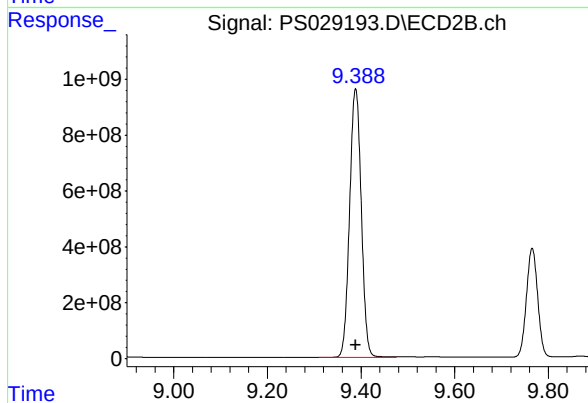
#9 2,4-D

R.T.: 8.869 min
Delta R.T.: 0.000 min
Response: 886940747
Conc: 705.00 ng/ml



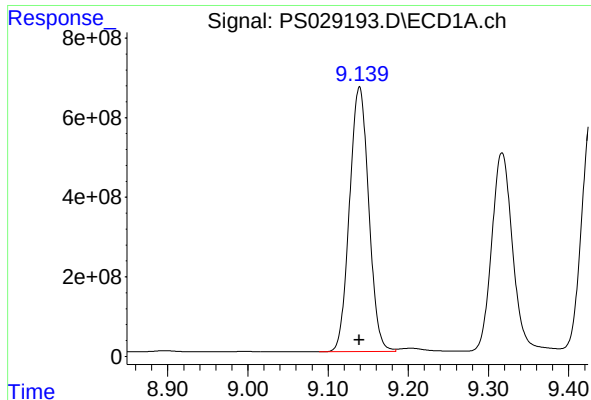
#10 Pentachlorophenol

R.T.: 8.565 min
Delta R.T.: 0.000 min
Response: 29620660324
Conc: 712.50 ng/ml



#10 Pentachlorophenol

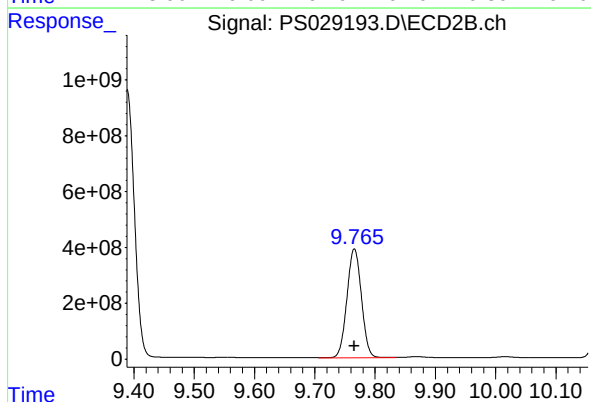
R.T.: 9.389 min
Delta R.T.: 0.000 min
Response: 16600141233
Conc: 712.50 ng/ml



#11 2,4,5-TP (SILVEX)

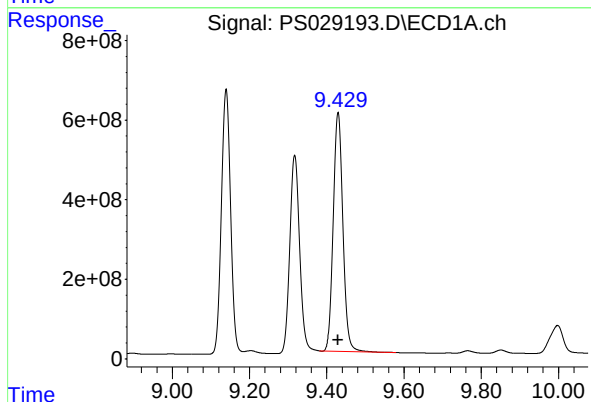
R.T.: 9.139 min
Delta R.T.: 0.000 min
Response: 11083233726
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



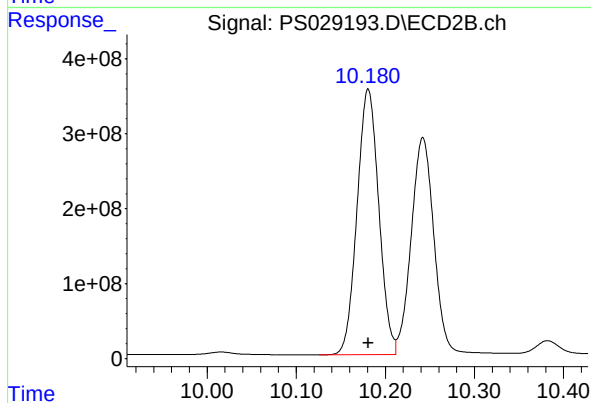
#11 2,4,5-TP (SILVEX)

R.T.: 9.766 min
Delta R.T.: 0.000 min
Response: 6523159671
Conc: 712.50 ng/ml



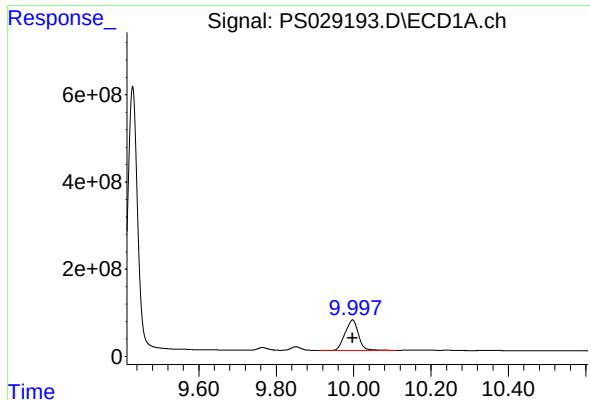
#12 2,4,5-T

R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 10446457277
Conc: 712.50 ng/ml



#12 2,4,5-T

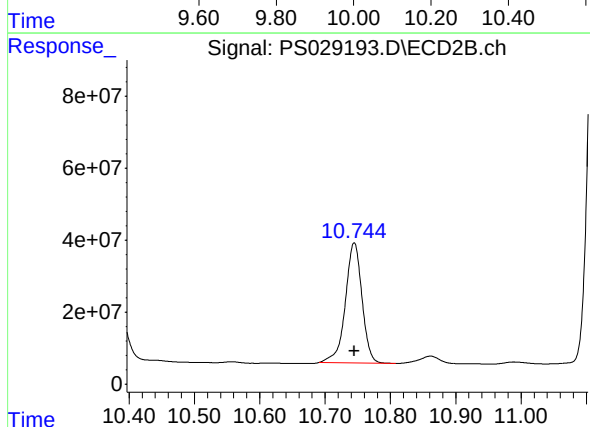
R.T.: 10.181 min
Delta R.T.: 0.000 min
Response: 6002052771
Conc: 712.50 ng/ml



#13 2,4-DB

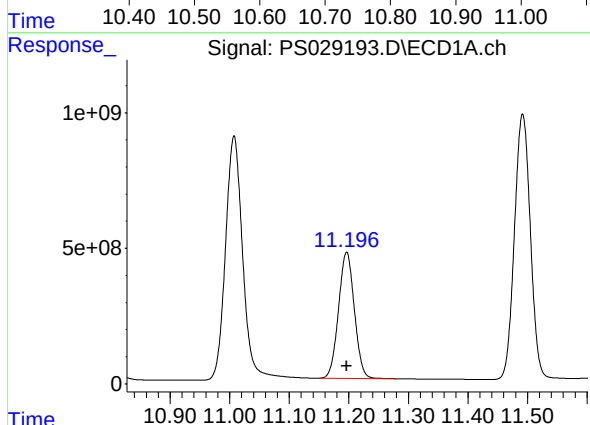
R.T.: 9.998 min
Delta R.T.: 0.000 min
Response: 1654835443
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



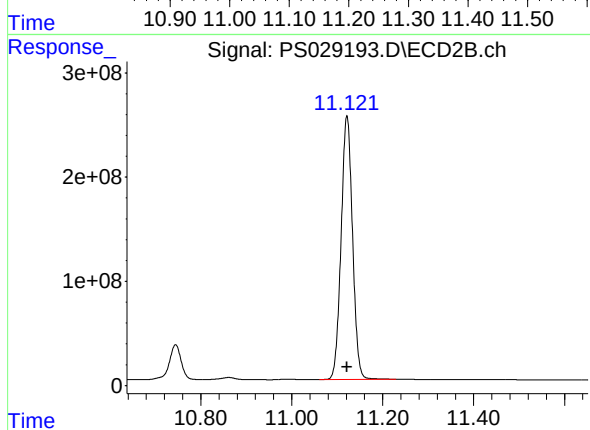
#13 2,4-DB

R.T.: 10.745 min
Delta R.T.: 0.000 min
Response: 591443808
Conc: 712.50 ng/ml



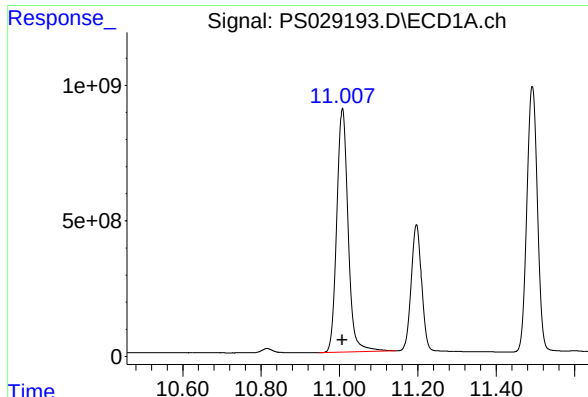
#14 DINOSEB

R.T.: 11.197 min
Delta R.T.: 0.000 min
Response: 8565206228
Conc: 705.00 ng/ml



#14 DINOSEB

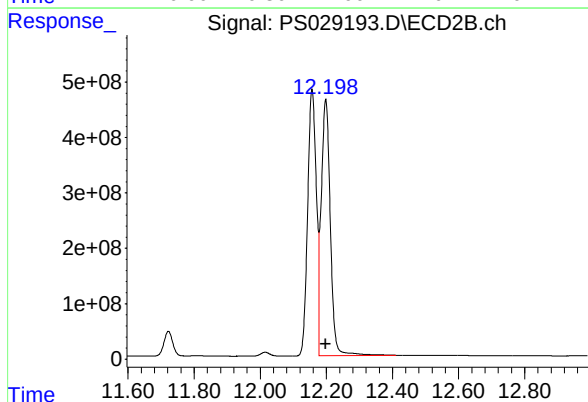
R.T.: 11.121 min
Delta R.T.: 0.000 min
Response: 4404593941
Conc: 705.00 ng/ml



#15 Picloram

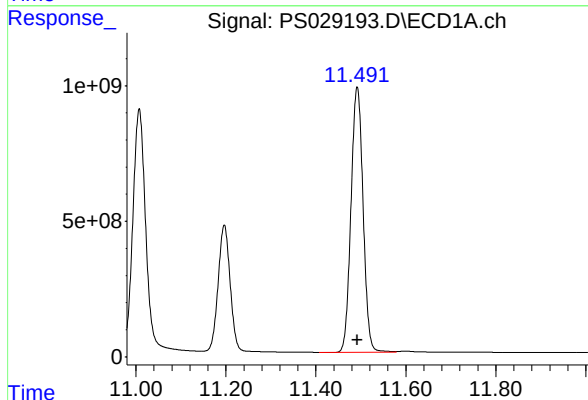
R.T.: 11.007 min
Delta R.T.: 0.000 min
Response: 18005899118
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



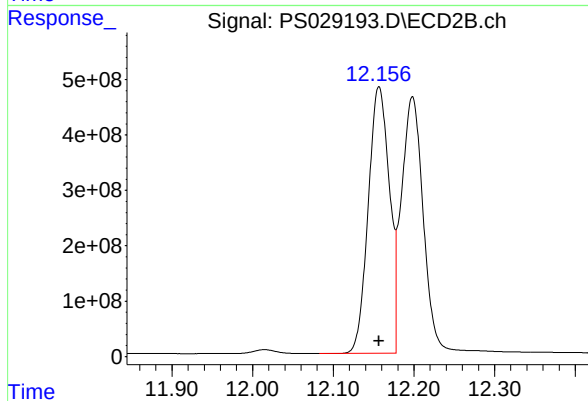
#15 Picloram

R.T.: 12.198 min
Delta R.T.: 0.000 min
Response: 8839708293
Conc: 712.50 ng/ml



#16 DCPA

R.T.: 11.492 min
Delta R.T.: 0.000 min
Response: 18205060522
Conc: 720.00 ng/ml



#16 DCPA

R.T.: 12.157 min
Delta R.T.: 0.000 min
Response: 8780632117
Conc: 720.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029194.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 11:33
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 19 12:29:53 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Wed Feb 19 12:25:45 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.158	7.638	1589.0E6	948.8E6	1021.764	1019.379
Target Compounds							
1) T	Dalapon	2.606	2.650	2822.8E6	1880.9E6	916.920	927.270
2) T	3,5-DICHL...	6.342	6.610	2208.6E6	1331.6E6	949.537	949.217
3) T	4-Nitroph...	6.956	7.168	1285.3E6	763.5E6	926.195	926.632
5) T	DICAMBA	7.342	7.834	8050.5E6	5012.9E6	960.465	960.395
6) T	MCP	7.525	7.941	325.6E6	224.0E6	96.265	95.889
7) T	MCPA	7.674	8.182	440.5E6	303.4E6	95.123	94.938
8) T	DICHLORPROP	8.042	8.543	1922.1E6	1196.9E6	959.488	957.770
9) T	2,4-D	8.270	8.868	2013.2E6	1214.8E6	958.756	960.908
10) T	Pentachlo...	8.565	9.388	38498.4E6	22267.0E6	1009.972	975.411
11) T	2,4,5-TP ...	9.138	9.765	14769.3E6	8858.5E6	973.354	971.741
12) T	2,4,5-T	9.429	10.180	13989.0E6	8177.2E6	973.704	971.954
13) T	2,4-DB	9.997	10.744	2242.8E6	816.3E6	970.474	970.661
14) T	DINOSEB	11.196	11.121	11503.1E6	6019.1E6	962.430	960.715
15) T	Picloram	11.007	12.197	24590.7E6	12314.1E6	974.314	973.767
16) T	DCPA	11.492	12.156	24171.3E6	11875.4E6	984.580	982.541

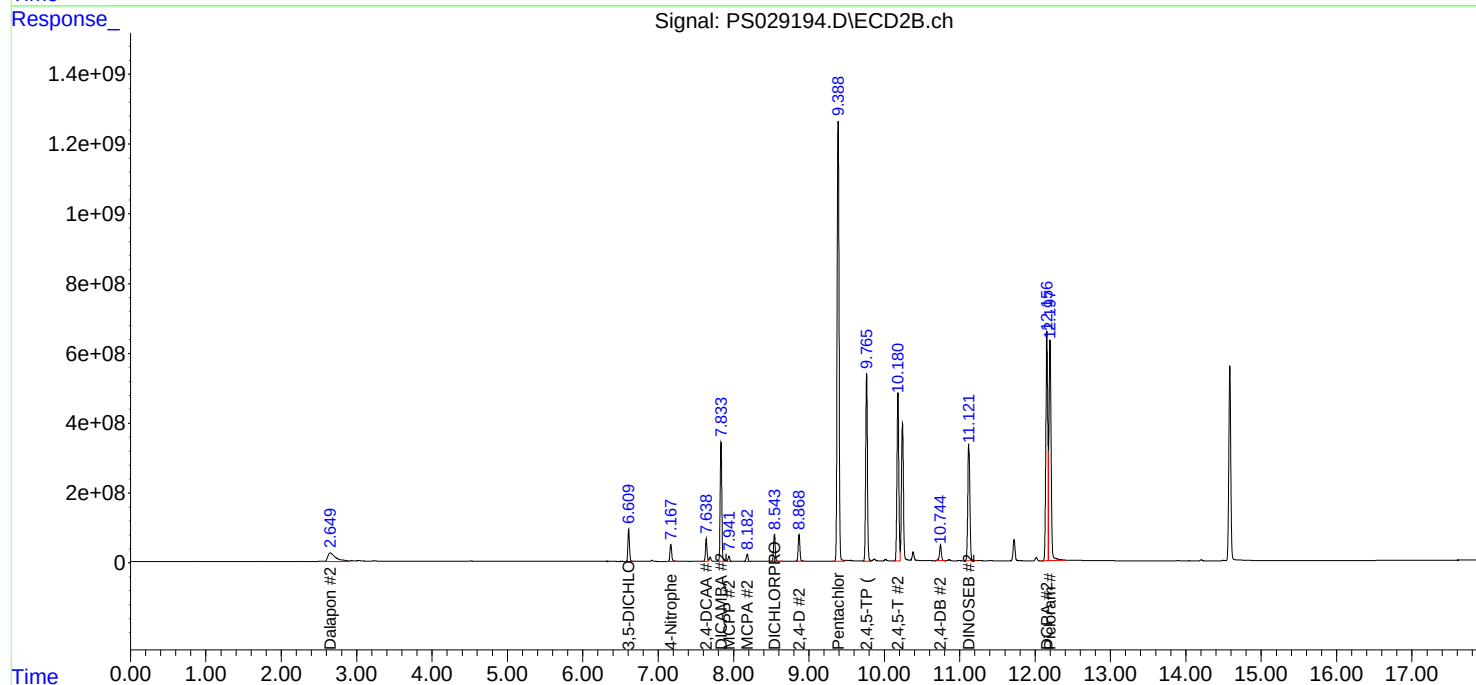
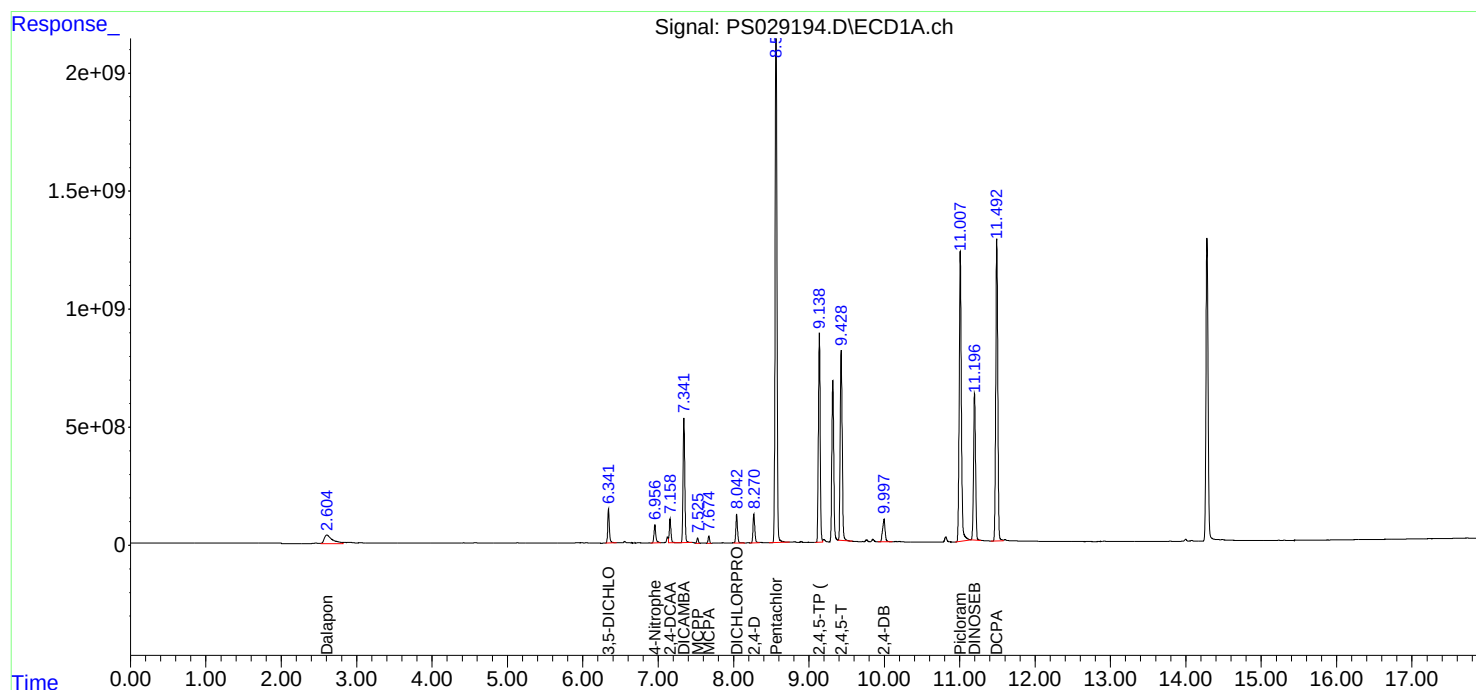
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

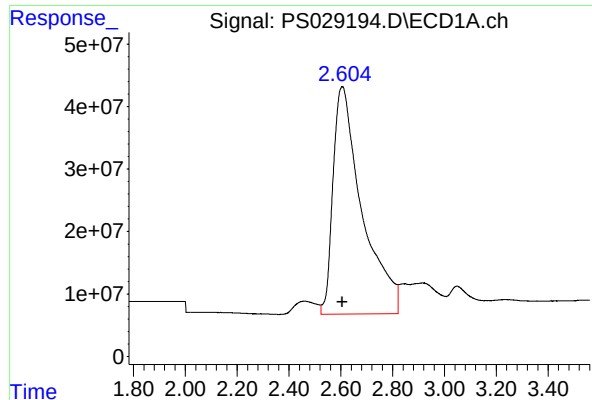
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029194.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 11:33
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 12:29:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Wed Feb 19 12:25:45 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

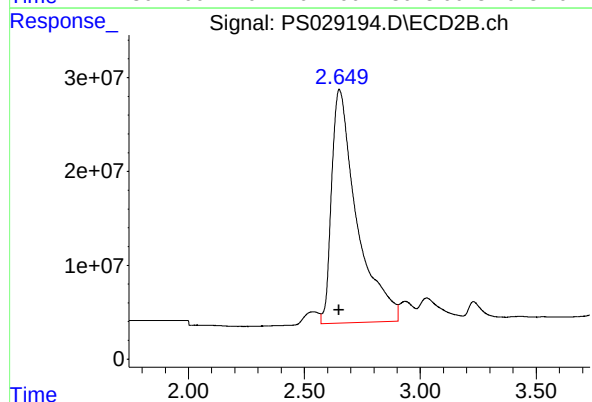




#1 Dalapon

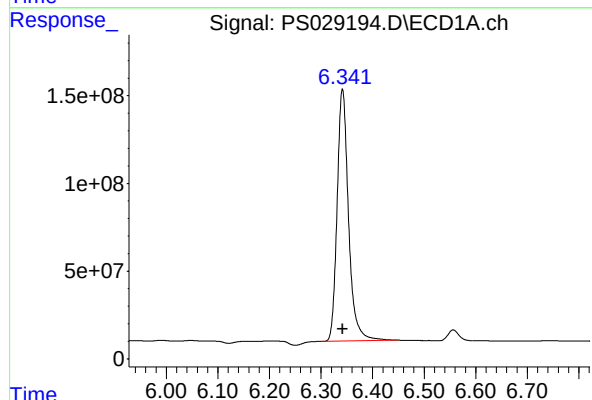
R.T.: 2.606 min
Delta R.T.: 0.000 min
Response: 2822800086
Conc: 916.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



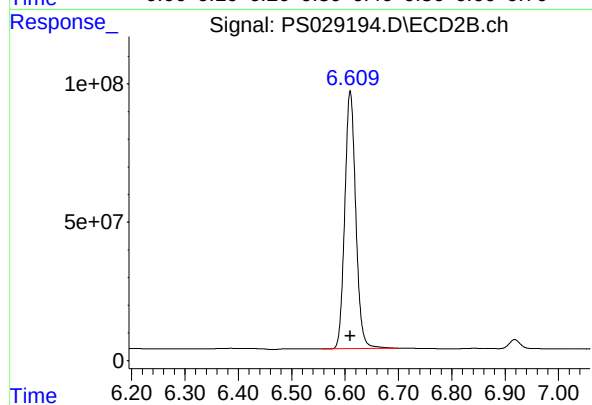
#1 Dalapon

R.T.: 2.650 min
Delta R.T.: 0.000 min
Response: 1880891534
Conc: 927.27 ng/ml



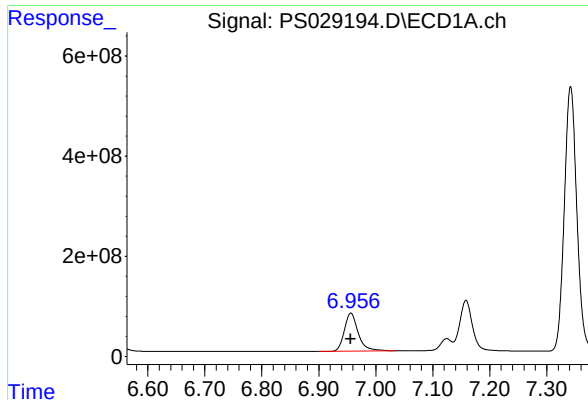
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.342 min
Delta R.T.: 0.000 min
Response: 2208620915
Conc: 949.54 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

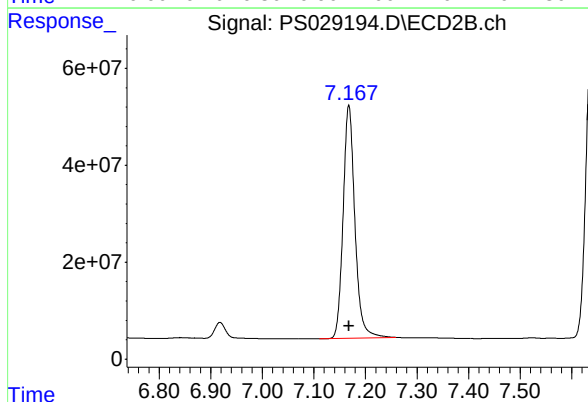
R.T.: 6.610 min
Delta R.T.: 0.000 min
Response: 1331610186
Conc: 949.22 ng/ml



#3 4-Nitrophenol

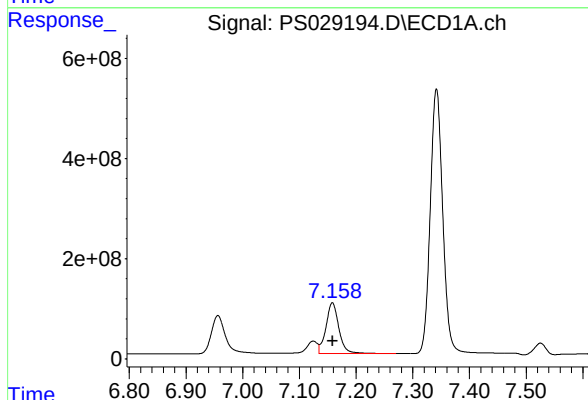
R.T.: 6.956 min
Delta R.T.: 0.000 min
Response: 1285293872
Conc: 926.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



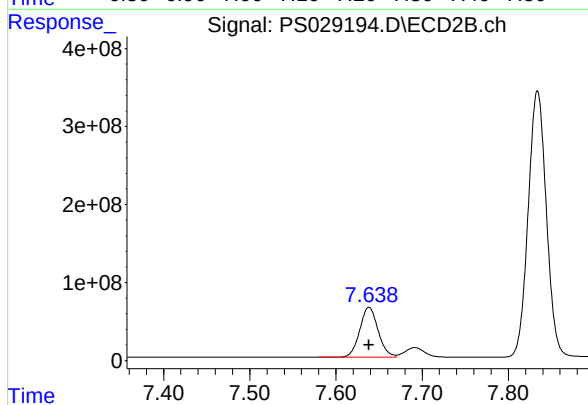
#3 4-Nitrophenol

R.T.: 7.168 min
Delta R.T.: 0.000 min
Response: 763500608
Conc: 926.63 ng/ml



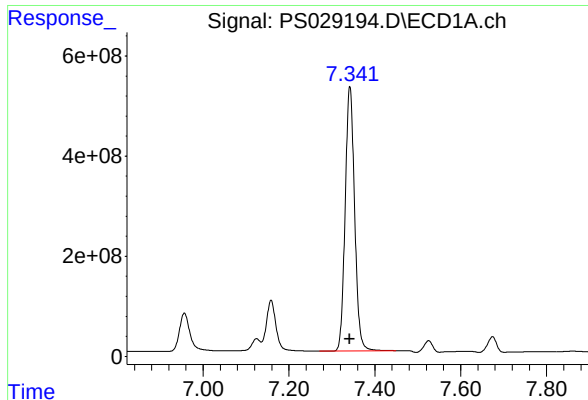
#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: 0.000 min
Response: 1589016371
Conc: 1021.76 ng/ml



#4 2,4-DCAA

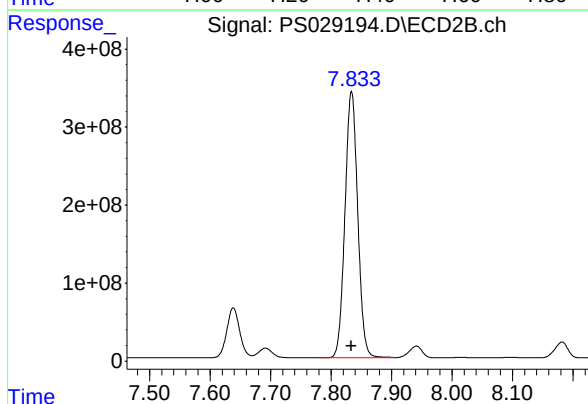
R.T.: 7.638 min
Delta R.T.: 0.000 min
Response: 948843973
Conc: 1019.38 ng/ml



#5 DICAMBA

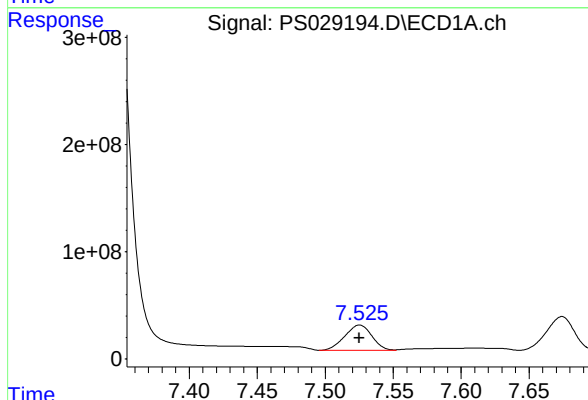
R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 8050476357
Conc: 960.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



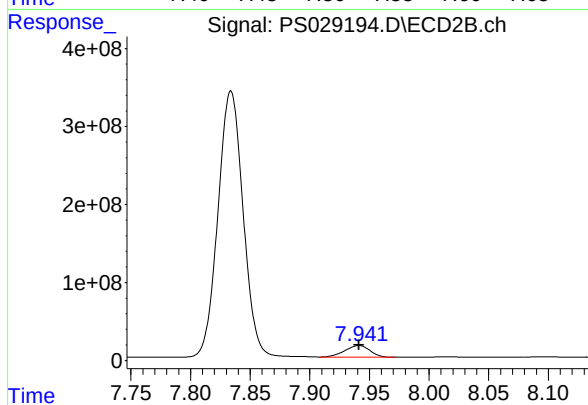
#5 DICAMBA

R.T.: 7.834 min
Delta R.T.: 0.000 min
Response: 5012856866
Conc: 960.40 ng/ml



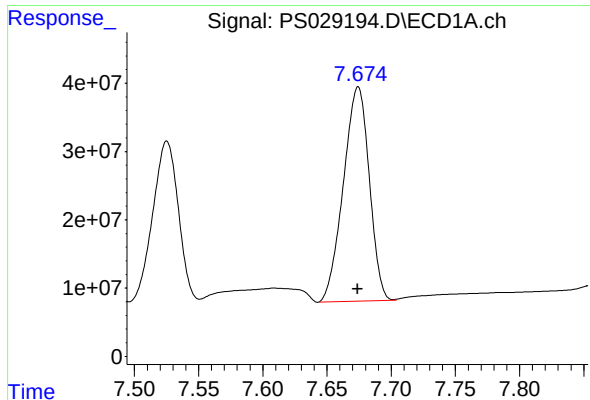
#6 MCPP

R.T.: 7.525 min
Delta R.T.: 0.000 min
Response: 325602864
Conc: 96.26 ug/ml



#6 MCPP

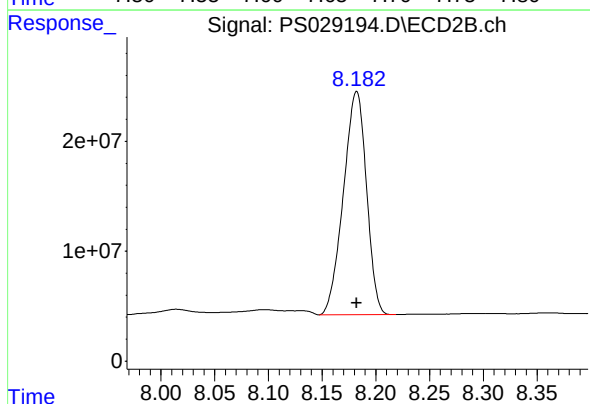
R.T.: 7.941 min
Delta R.T.: 0.000 min
Response: 223955636
Conc: 95.89 ug/ml



#7 MCPA

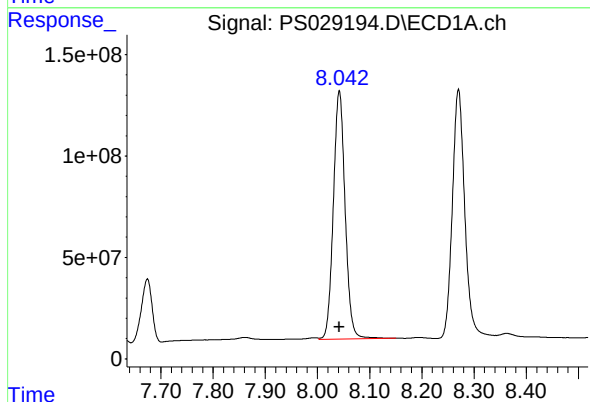
R.T.: 7.674 min
Delta R.T.: 0.000 min
Response: 440529453
Conc: 95.12 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



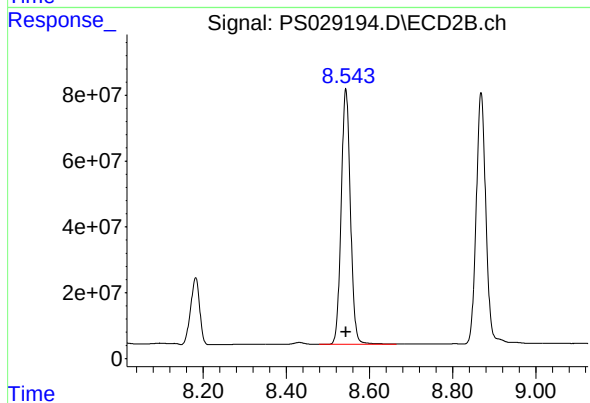
#7 MCPA

R.T.: 8.182 min
Delta R.T.: 0.000 min
Response: 303446909
Conc: 94.94 ug/ml



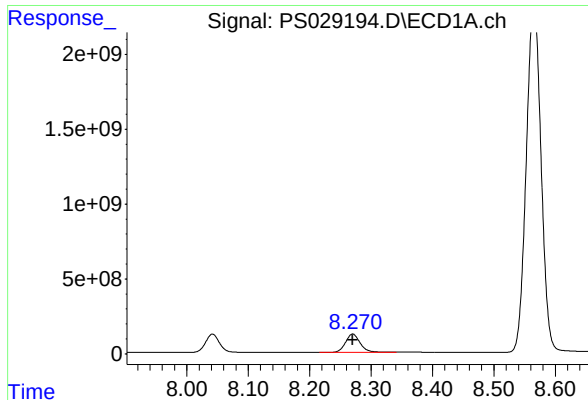
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 1922119273
Conc: 959.49 ng/ml



#8 DICHLORPROP

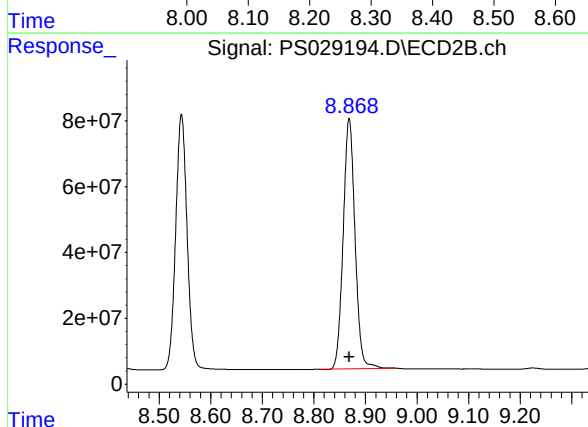
R.T.: 8.543 min
Delta R.T.: 0.000 min
Response: 1196891228
Conc: 957.77 ng/ml



#9 2,4-D

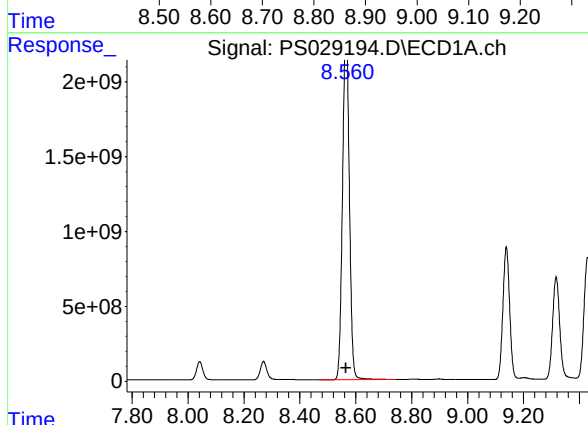
R.T.: 8.270 min
Delta R.T.: 0.000 min
Response: 2013245053
Conc: 958.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



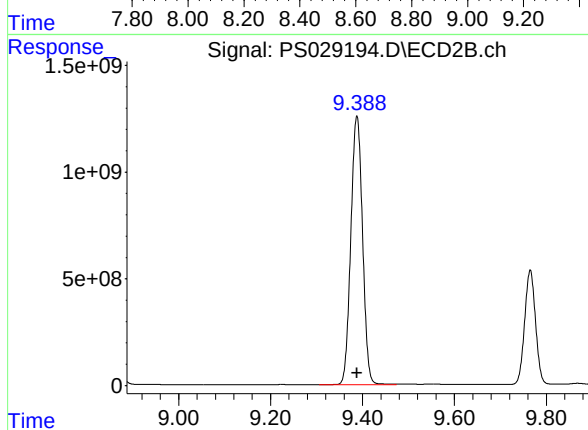
#9 2,4-D

R.T.: 8.868 min
Delta R.T.: 0.000 min
Response: 1214788025
Conc: 960.91 ng/ml



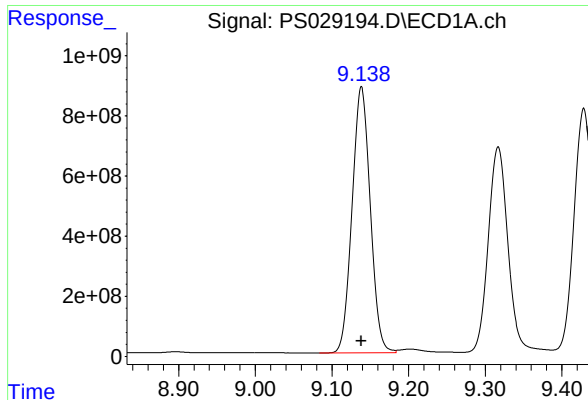
#10 Pentachlorophenol

R.T.: 8.565 min
Delta R.T.: 0.000 min
Response: 38498442973
Conc: 1009.97 ng/ml



#10 Pentachlorophenol

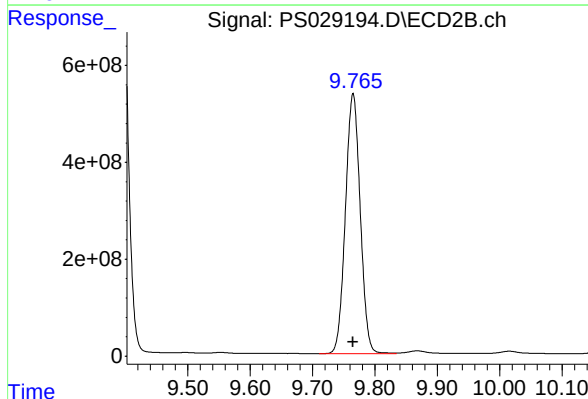
R.T.: 9.388 min
Delta R.T.: 0.000 min
Response: 22267038060
Conc: 975.41 ng/ml



#11 2,4,5-TP (SILVEX)

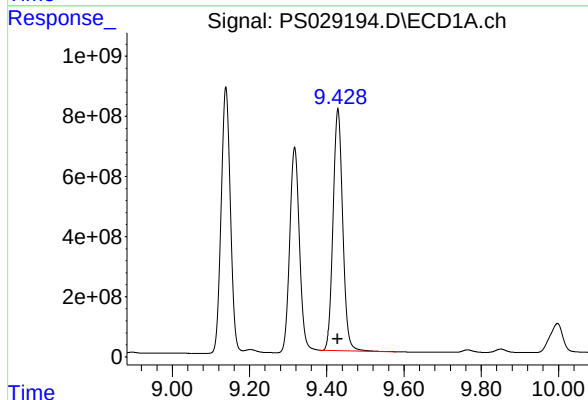
R.T.: 9.138 min
Delta R.T.: 0.000 min
Response: 14769340184
Conc: 973.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



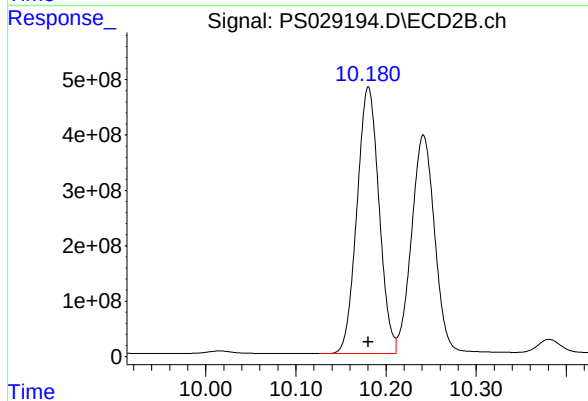
#11 2,4,5-TP (SILVEX)

R.T.: 9.765 min
Delta R.T.: 0.000 min
Response: 8858531192
Conc: 971.74 ng/ml



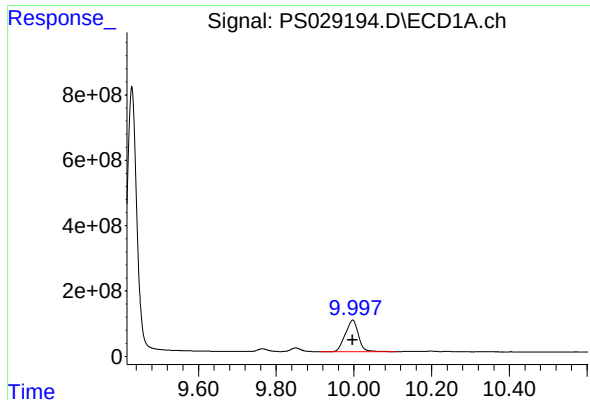
#12 2,4,5-T

R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 13989032075
Conc: 973.70 ng/ml



#12 2,4,5-T

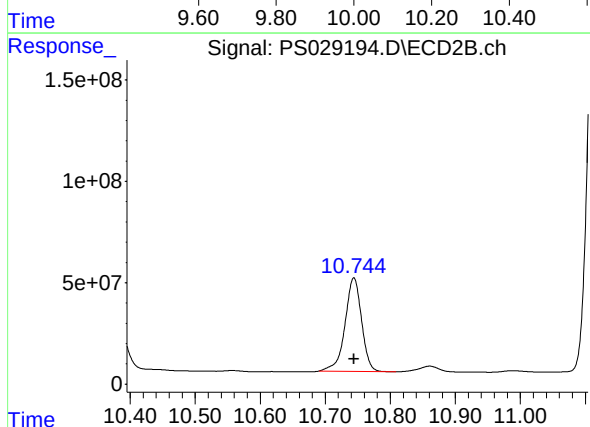
R.T.: 10.180 min
Delta R.T.: 0.000 min
Response: 8177200400
Conc: 971.95 ng/ml



#13 2,4-DB

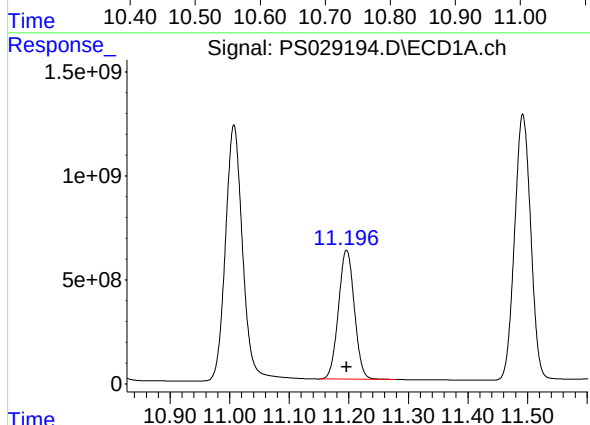
R.T.: 9.997 min
Delta R.T.: 0.000 min
Response: 2242837830
Conc: 970.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



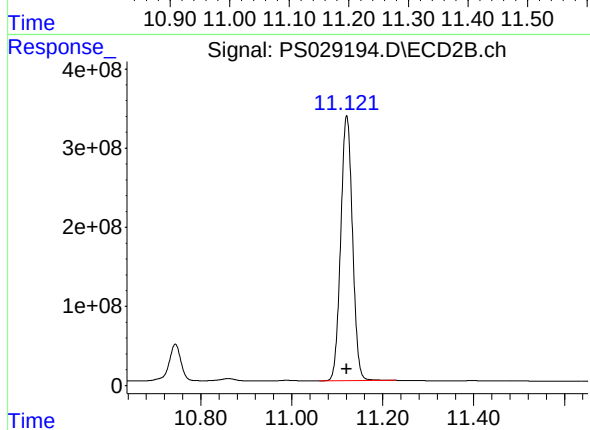
#13 2,4-DB

R.T.: 10.744 min
Delta R.T.: 0.000 min
Response: 816306362
Conc: 970.66 ng/ml



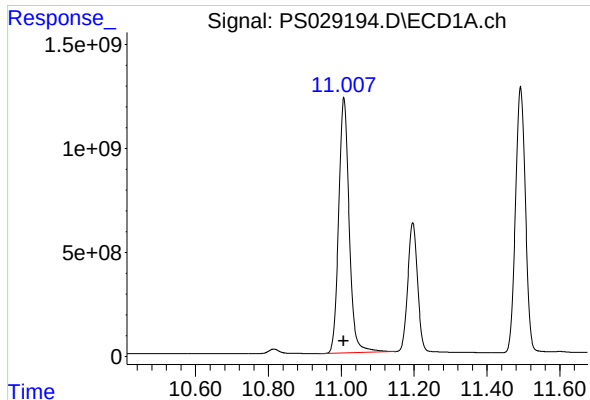
#14 DINOSEB

R.T.: 11.196 min
Delta R.T.: 0.000 min
Response: 11503096802
Conc: 962.43 ng/ml



#14 DINOSEB

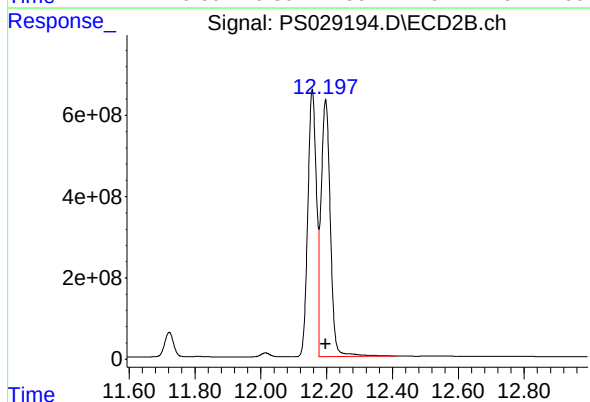
R.T.: 11.121 min
Delta R.T.: 0.000 min
Response: 6019124649
Conc: 960.72 ng/ml



#15 Picloram

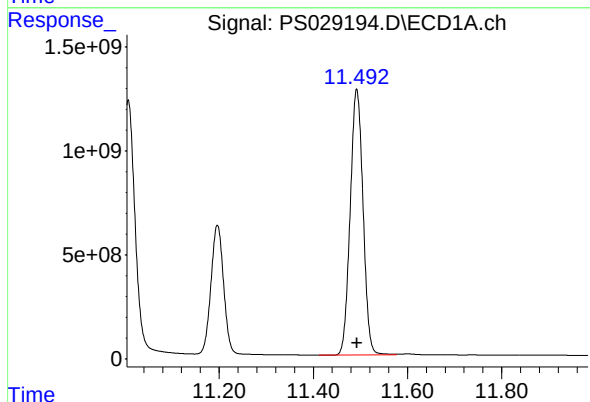
R.T.: 11.007 min
Delta R.T.: 0.000 min
Response: 24590673506
Conc: 974.31 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



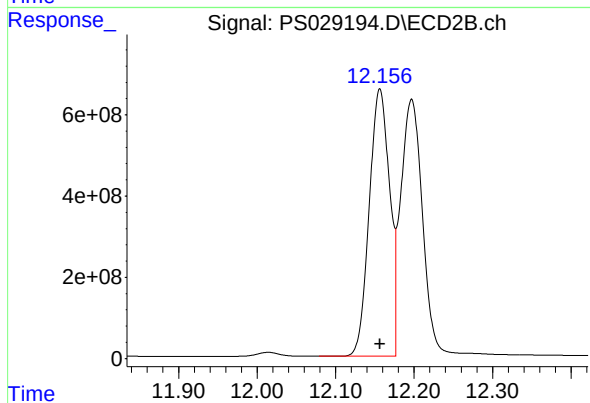
#15 Picloram

R.T.: 12.197 min
Delta R.T.: 0.000 min
Response: 12314129238
Conc: 973.77 ng/ml



#16 DCPA

R.T.: 11.492 min
Delta R.T.: 0.000 min
Response: 24171298660
Conc: 984.58 ng/ml



#16 DCPA

R.T.: 12.156 min
Delta R.T.: 0.000 min
Response: 11875382928
Conc: 982.54 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029195.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 11:57
 Operator : AR\AJ
 Sample : HSTDICC1500
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 19 12:28:02 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Wed Feb 19 12:25:45 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.158	7.638	2239.3E6	1372.6E6	1455.724	1489.018
Target Compounds							
1) T	Dalapon	2.602	2.650	4162.5E6	2741.6E6	1357.256	1364.525
2) T	3,5-DICHL...	6.341	6.609	3112.0E6	1915.0E6	1352.120	1379.333
3) T	4-Nitroph...	6.955	7.167	1872.8E6	1110.7E6	1361.680	1360.429
5) T	DICAMBA	7.341	7.833	11431.4E6	7296.6E6	1378.837	1413.254
6) T	MCPD	7.528	7.944	483.5E6	332.1E6	144.683	143.618
7) T	MCPA	7.678	8.186	650.9E6	447.7E6	142.168	141.535
8) T	DICHLORPROP	8.042	8.543	2696.4E6	1726.8E6	1360.099	1395.007
9) T	2,4-D	8.269	8.868	2838.9E6	1751.5E6	1365.589	1401.064
10) T	Pentachlo...	8.567	9.387	45966.9E6	30990.4E6	1245.204	1375.942
11) T	2,4,5-TP ...	9.138	9.765	20546.9E6	12637.4E6	1370.968	1402.313
12) T	2,4,5-T	9.428	10.180	19541.7E6	11696.3E6	1377.380	1406.495
13) T	2,4-DB	9.996	10.743	3205.9E6	1187.8E6	1402.308	1427.979
14) T	DINOSEB	11.195	11.120	16172.5E6	8664.1E6	1369.442	1398.296
15) T	Picloram	11.006	12.197	34998.8E6	17910.5E6	1404.671	1434.252
16) T	DCPA	11.491	12.156	33388.4E6	16838.9E6	1377.659	1409.763

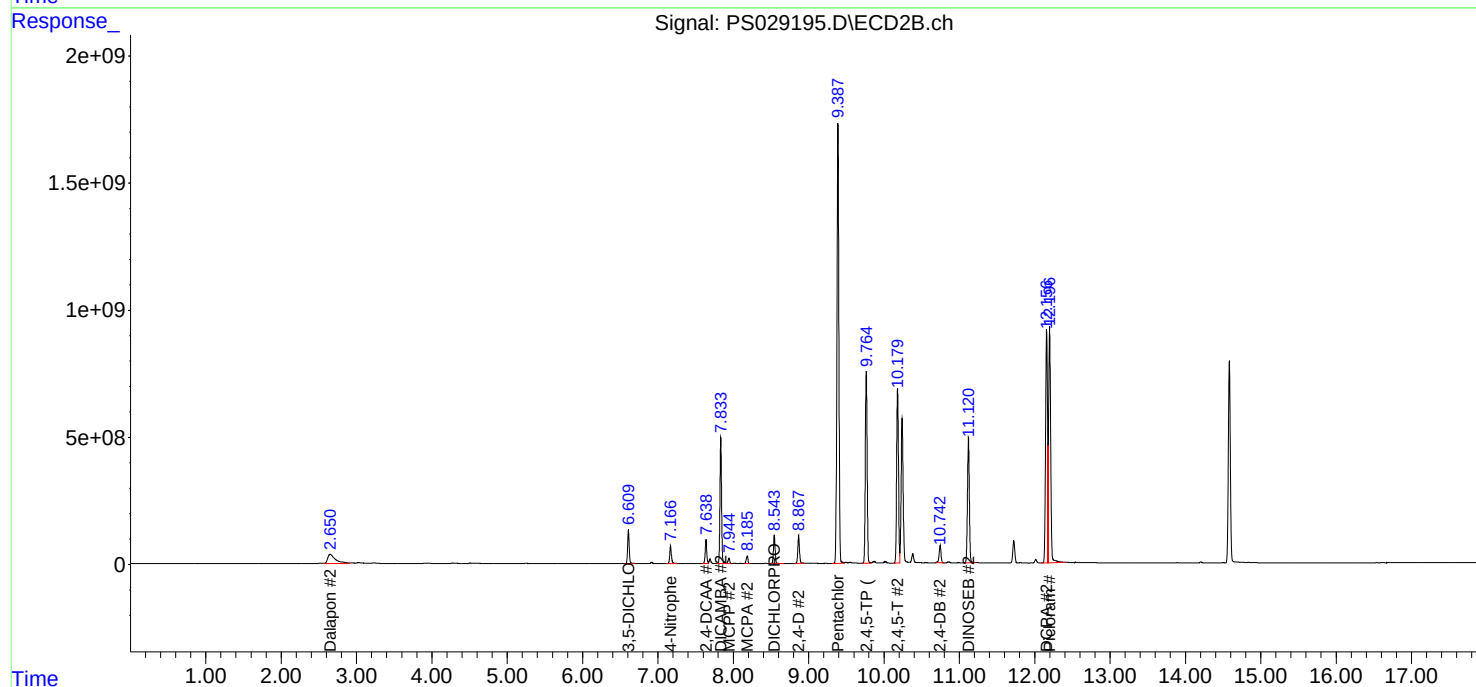
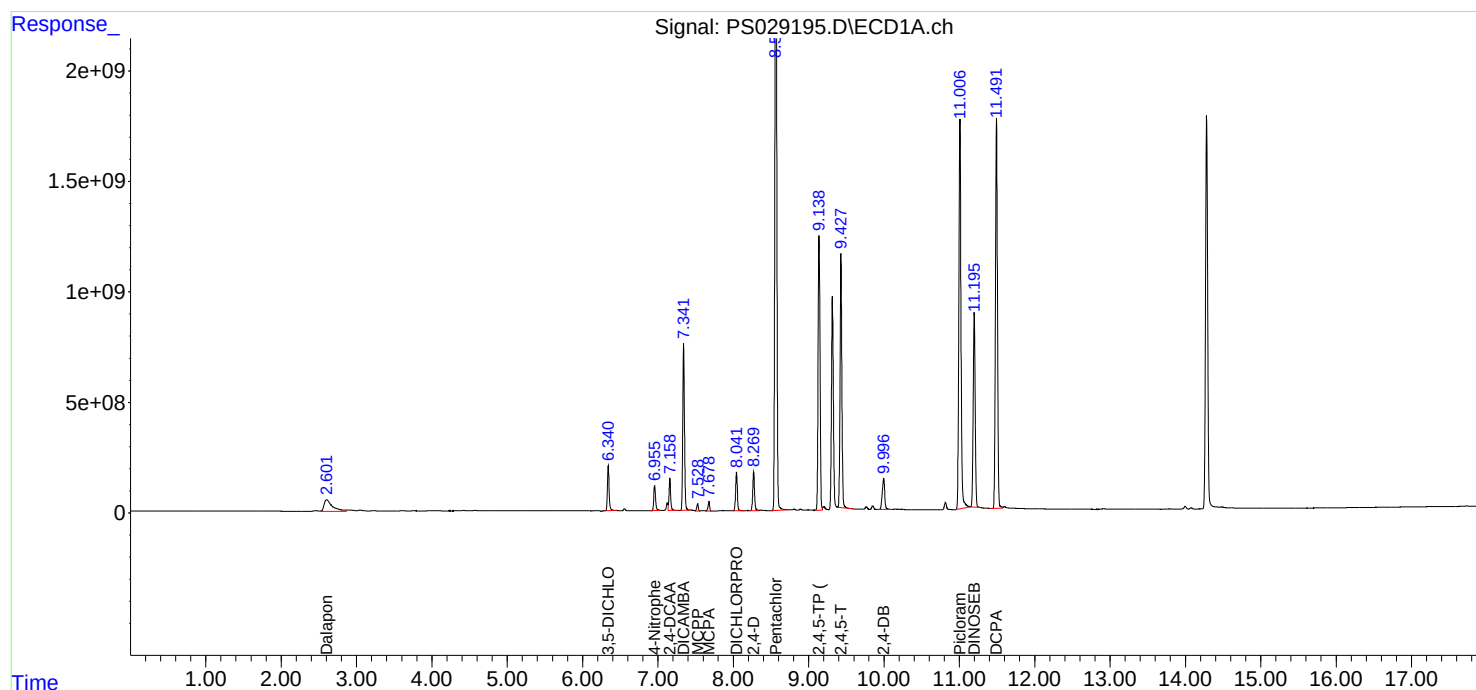
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

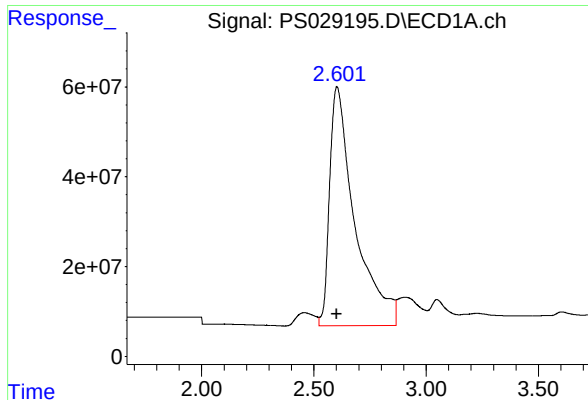
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029195.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 11:57
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 12:28:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Wed Feb 19 12:25:45 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

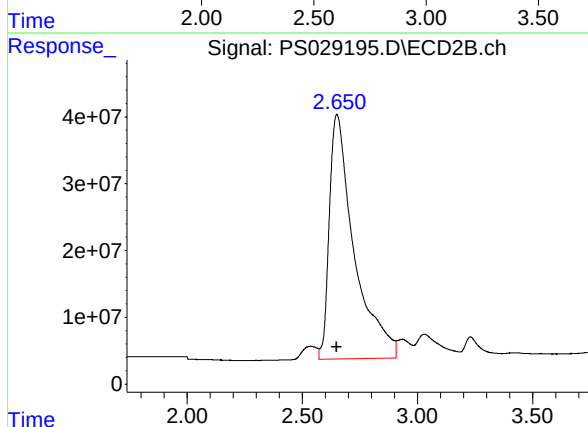




#1 Dalapon

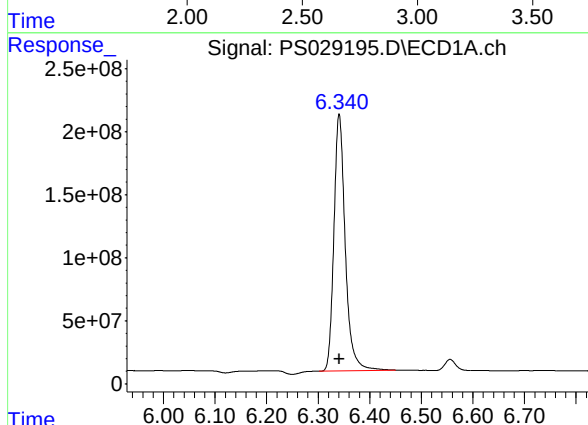
R.T.: 2.602 min
Delta R.T.: 0.000 min
Response: 4162518861
Conc: 1357.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



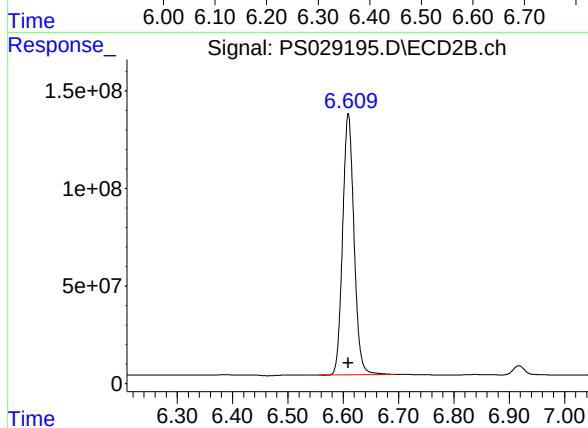
#1 Dalapon

R.T.: 2.650 min
Delta R.T.: 0.000 min
Response: 2741563260
Conc: 1364.52 ng/ml



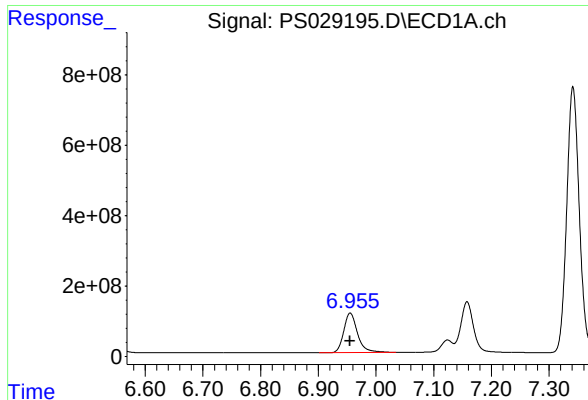
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 3111990625
Conc: 1352.12 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

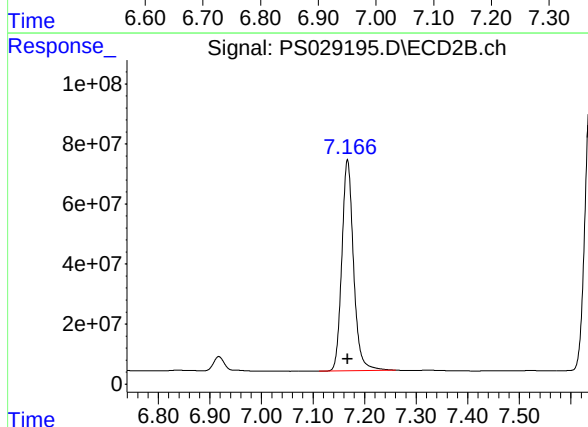
R.T.: 6.609 min
Delta R.T.: 0.000 min
Response: 1915005790
Conc: 1379.33 ng/ml



#3 4-Nitrophenol

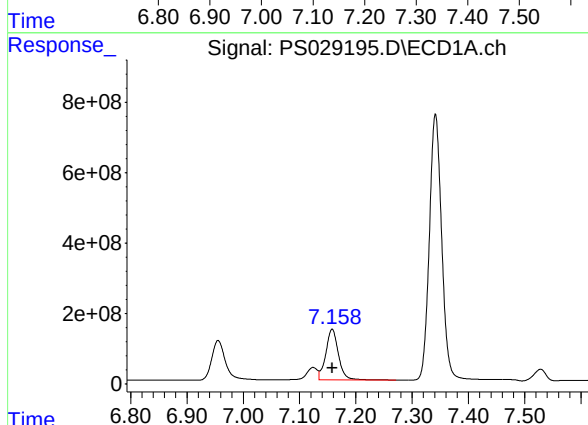
R.T.: 6.955 min
Delta R.T.: 0.000 min
Response: 1872808441
Conc: 1361.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



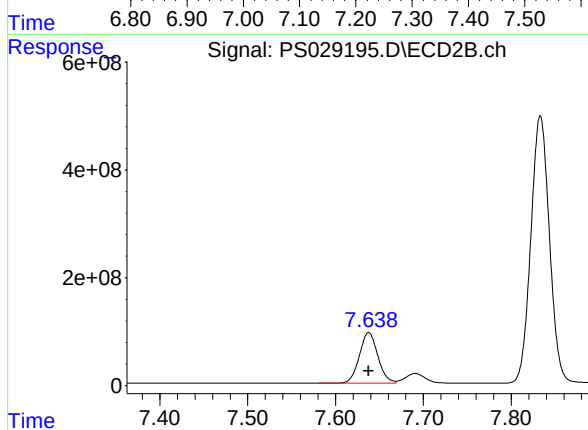
#3 4-Nitrophenol

R.T.: 7.167 min
Delta R.T.: 0.000 min
Response: 1110684152
Conc: 1360.43 ng/ml



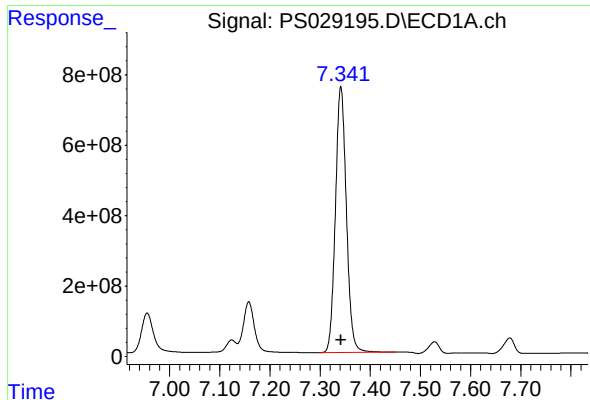
#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: 0.000 min
Response: 2239262084
Conc: 1455.72 ng/ml



#4 2,4-DCAA

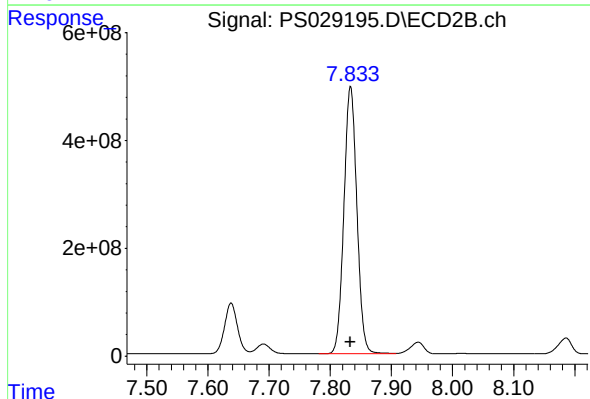
R.T.: 7.638 min
Delta R.T.: 0.000 min
Response: 1372556775
Conc: 1489.02 ng/ml



#5 DICAMBA

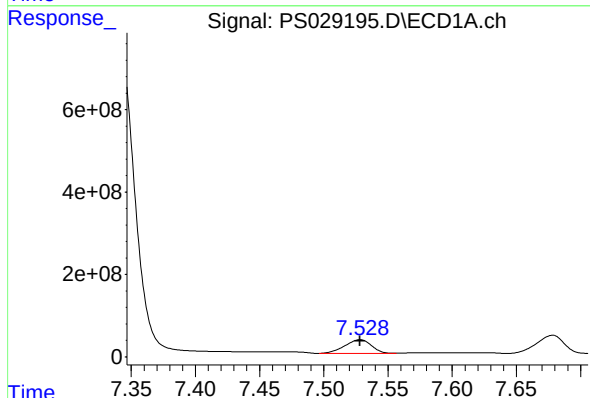
R.T.: 7.341 min
Delta R.T.: 0.000 min
Response: 11431396685
Conc: 1378.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



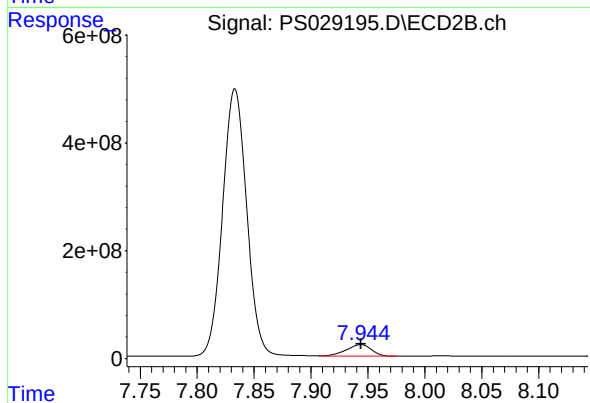
#5 DICAMBA

R.T.: 7.833 min
Delta R.T.: 0.000 min
Response: 7296560439
Conc: 1413.25 ng/ml



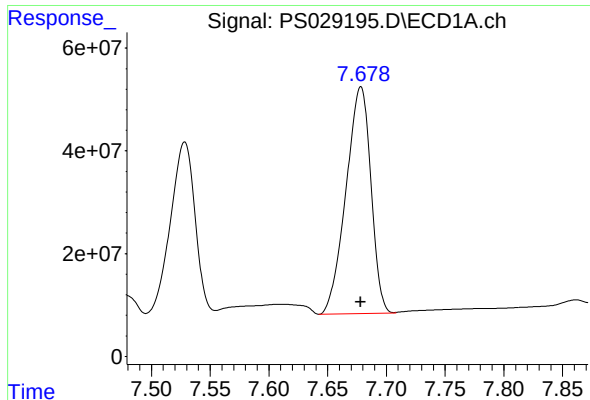
#6 MCPP

R.T.: 7.528 min
Delta R.T.: 0.000 min
Response: 483478522
Conc: 144.68 ug/ml



#6 MCPP

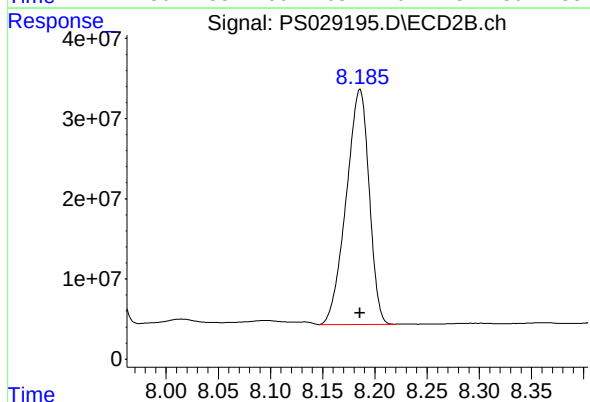
R.T.: 7.944 min
Delta R.T.: 0.000 min
Response: 332058561
Conc: 143.62 ug/ml



#7 MCPA

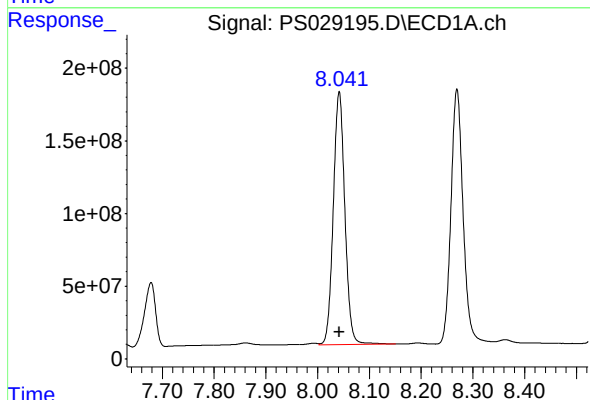
R.T.: 7.678 min
Delta R.T.: 0.000 min
Response: 650880917
Conc: 142.17 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



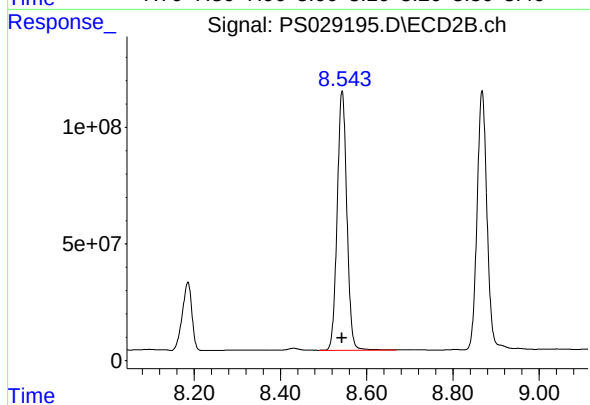
#7 MCPA

R.T.: 8.186 min
Delta R.T.: 0.000 min
Response: 447673216
Conc: 141.53 ug/ml



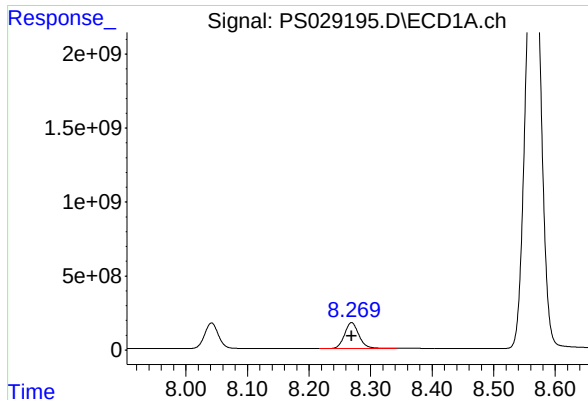
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 2696411262
Conc: 1360.10 ng/ml



#8 DICHLORPROP

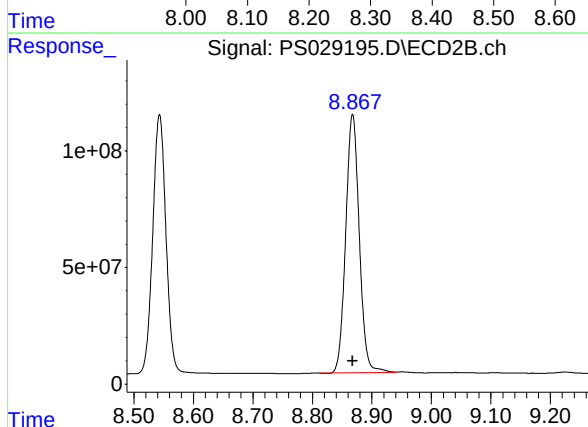
R.T.: 8.543 min
Delta R.T.: 0.000 min
Response: 1726813761
Conc: 1395.01 ng/ml



#9 2,4-D

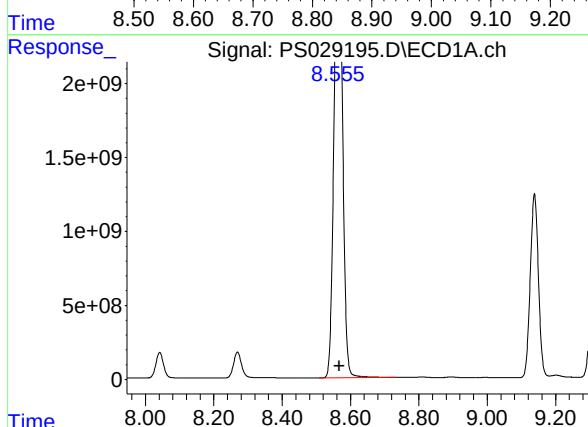
R.T.: 8.269 min
Delta R.T.: 0.000 min
Response: 2838922843
Conc: 1365.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



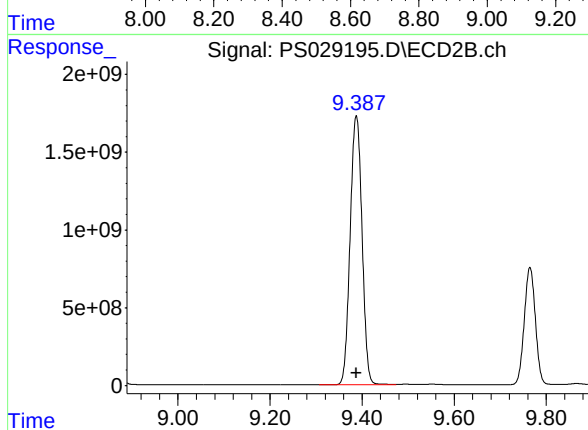
#9 2,4-D

R.T.: 8.868 min
Delta R.T.: 0.000 min
Response: 1751537667
Conc: 1401.06 ng/ml



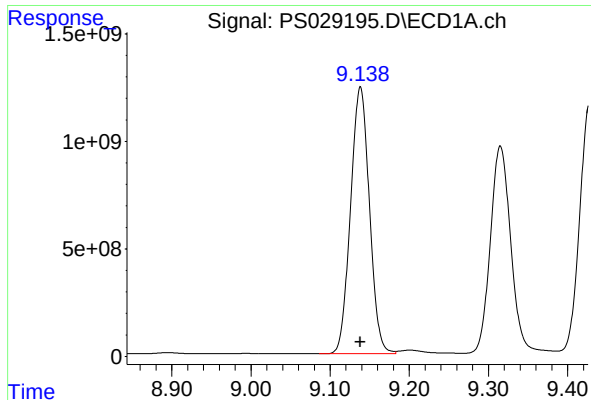
#10 Pentachlorophenol

R.T.: 8.567 min
Delta R.T.: 0.000 min
Response: 45966942256
Conc: 1245.20 ng/ml



#10 Pentachlorophenol

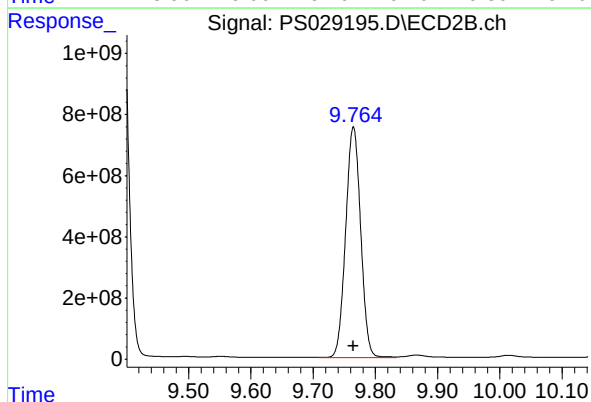
R.T.: 9.387 min
Delta R.T.: 0.000 min
Response: 30990409456
Conc: 1375.94 ng/ml



#11 2,4,5-TP (SILVEX)

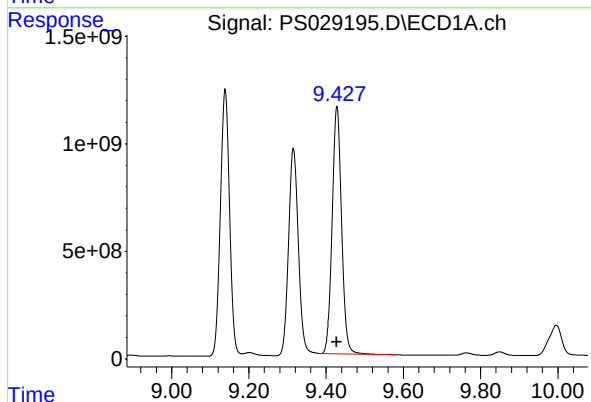
R.T.: 9.138 min
Delta R.T.: 0.000 min
Response: 20546907157
Conc: 1370.97 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



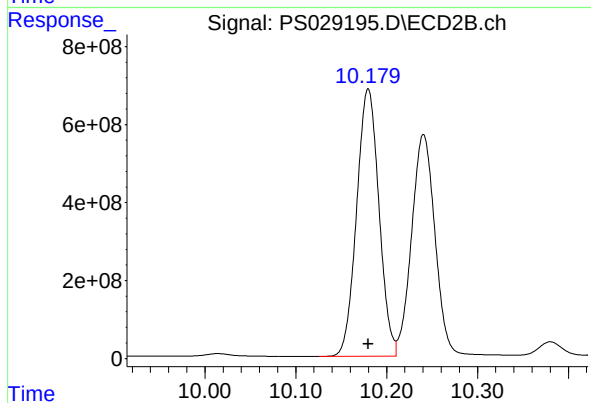
#11 2,4,5-TP (SILVEX)

R.T.: 9.765 min
Delta R.T.: 0.000 min
Response: 12637414423
Conc: 1402.31 ng/ml



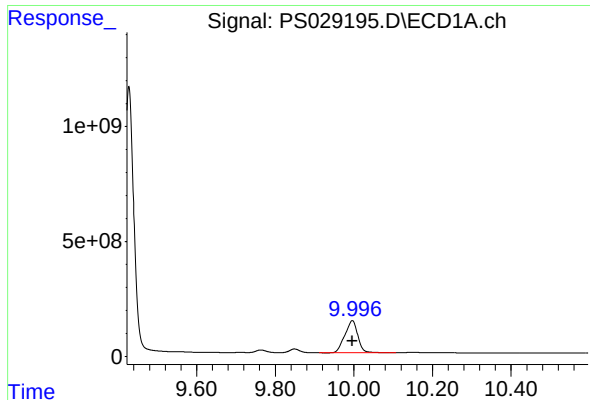
#12 2,4,5-T

R.T.: 9.428 min
Delta R.T.: 0.000 min
Response: 19541685323
Conc: 1377.38 ng/ml



#12 2,4,5-T

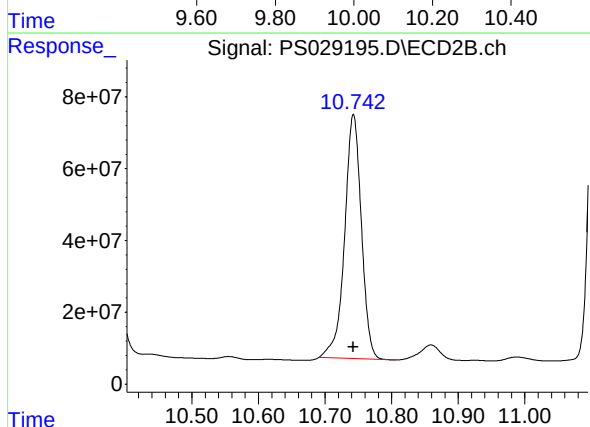
R.T.: 10.180 min
Delta R.T.: 0.000 min
Response: 11696328704
Conc: 1406.49 ng/ml



#13 2,4-DB

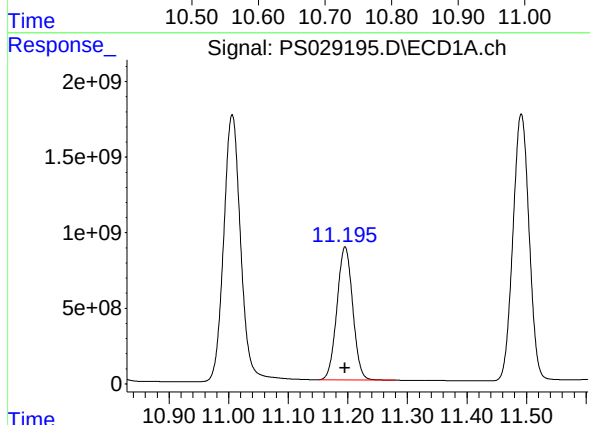
R.T.: 9.996 min
Delta R.T.: 0.000 min
Response: 3205916618
Conc: 1402.31 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



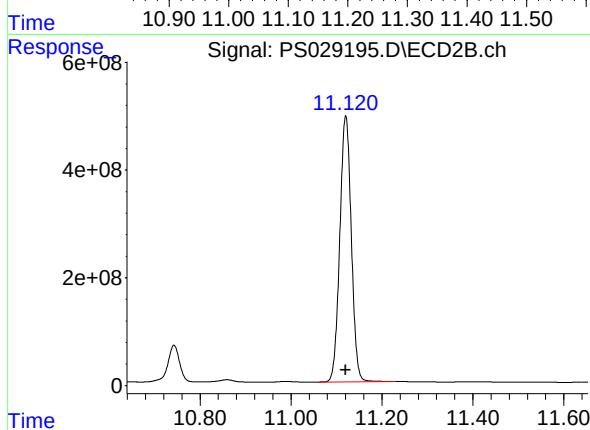
#13 2,4-DB

R.T.: 10.743 min
Delta R.T.: 0.000 min
Response: 1187843236
Conc: 1427.98 ng/ml



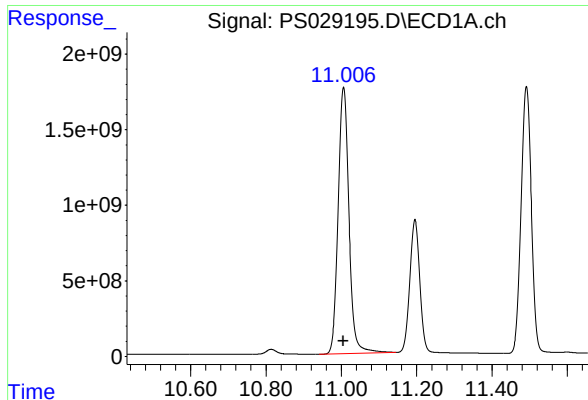
#14 DINOSEB

R.T.: 11.195 min
Delta R.T.: 0.000 min
Response: 16172471851
Conc: 1369.44 ng/ml



#14 DINOSEB

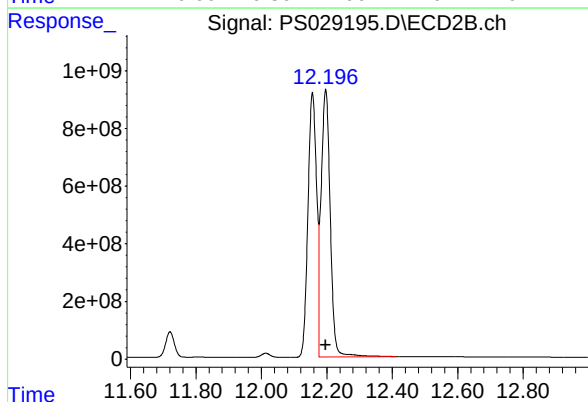
R.T.: 11.120 min
Delta R.T.: 0.000 min
Response: 8664143486
Conc: 1398.30 ng/ml



#15 Picloram

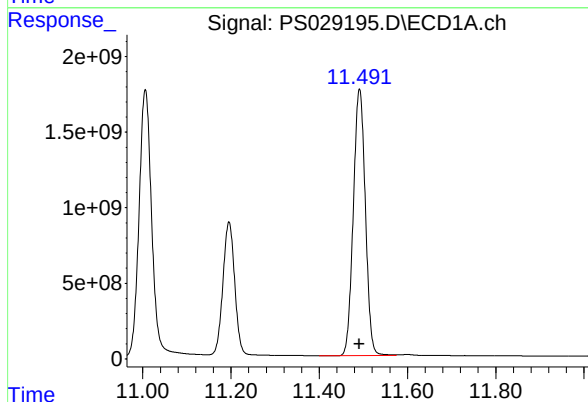
R.T.: 11.006 min
Delta R.T.: 0.000 min
Response: 34998780902
Conc: 1404.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



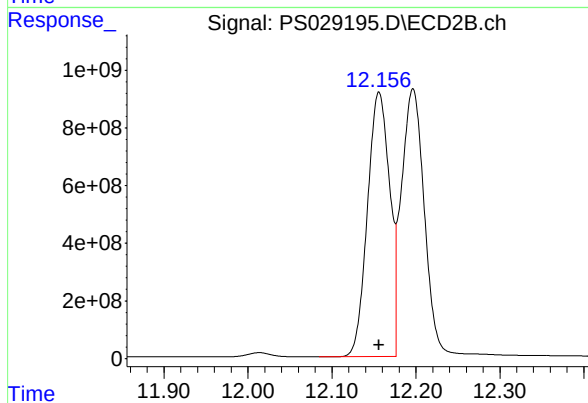
#15 Picloram

R.T.: 12.197 min
Delta R.T.: 0.000 min
Response: 17910491421
Conc: 1434.25 ng/ml



#16 DCPA

R.T.: 11.491 min
Delta R.T.: 0.000 min
Response: 33388367547
Conc: 1377.66 ng/ml



#16 DCPA

R.T.: 12.156 min
Delta R.T.: 0.000 min
Response: 16838920179
Conc: 1409.76 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029196.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 12:21
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS021925

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 19 12:39:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Wed Feb 19 12:36:23 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.158	7.638	1193.5E6	701.2E6	716.163	724.812
Target Compounds							
1) T	Dalapon	2.604	2.650	2117.7E6	1395.9E6	644.164	657.044
2) T	3,5-DICHL...	6.342	6.610	1656.5E6	984.9E6	665.133	676.440
3) T	4-Nitroph...	6.956	7.168	938.1E6	559.5E6	654.229	653.337
5) T	DICAMBA	7.342	7.833	5976.3E6	3658.4E6	681.066	692.480
6) T	MCP	7.524	7.939	229.5E6	160.9E6	72.798	70.528
7) T	MCPA	7.672	8.179	312.8E6	219.5E6	69.694	69.656
8) T	DICHLORPROP	8.043	8.544	1448.0E6	885.1E6	648.992	675.440
9) T	2,4-D	8.270	8.869	1505.8E6	897.6E6	662.462	684.233
10) T	Pentachlo...	8.565	9.388	29755.8E6	16690.7E6	714.716	701.538
11) T	2,4,5-TP ...	9.140	9.765	11116.3E6	6561.3E6	689.387	699.763
12) T	2,4,5-T	9.430	10.180	10477.6E6	6036.9E6	688.282	697.621
13) T	2,4-DB	9.997	10.744	1646.6E6	591.6E6	681.225	691.861
14) T	DINOSEB	11.197	11.121	8543.7E6	4408.2E6	672.418	680.739
15) T	Picloram	11.008	12.198	18076.7E6	8911.7E6	691.713	710.650
16) T	DCPA	11.492	12.157	18304.9E6	8805.7E6	699.868	708.870

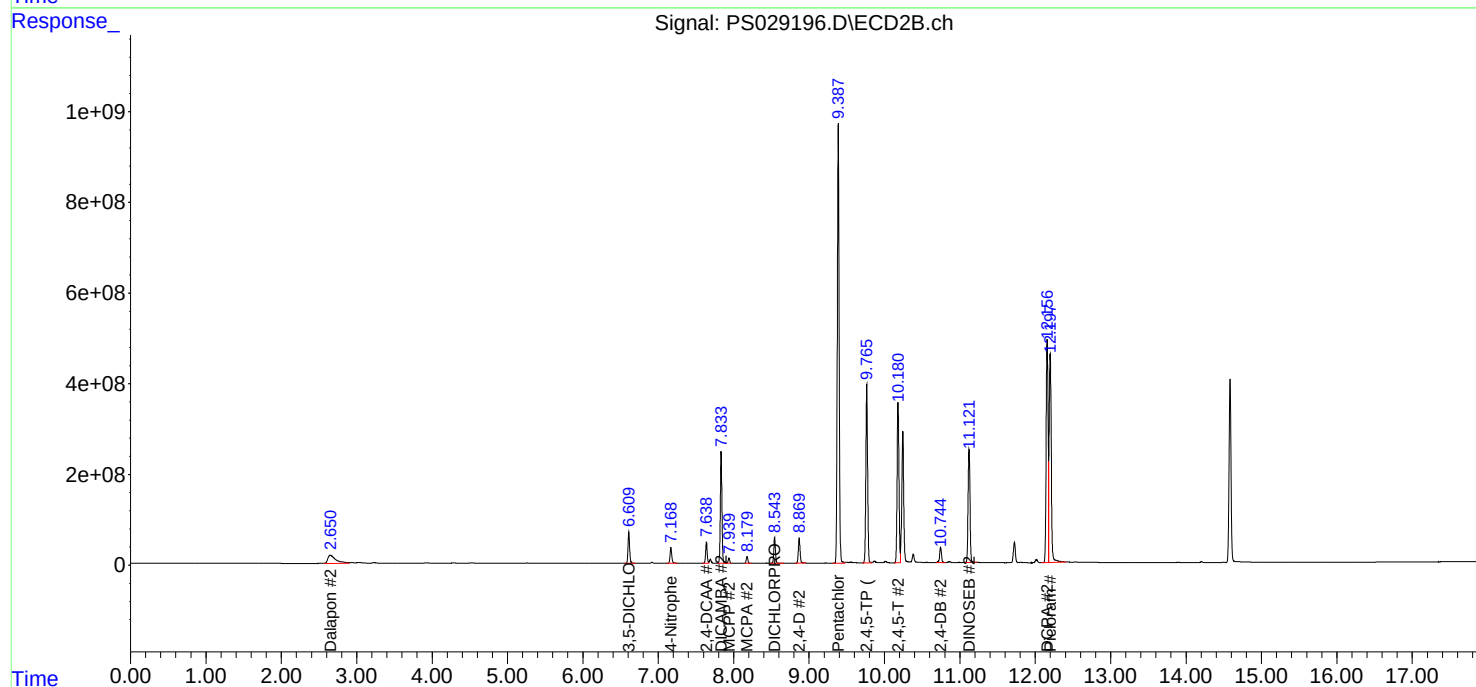
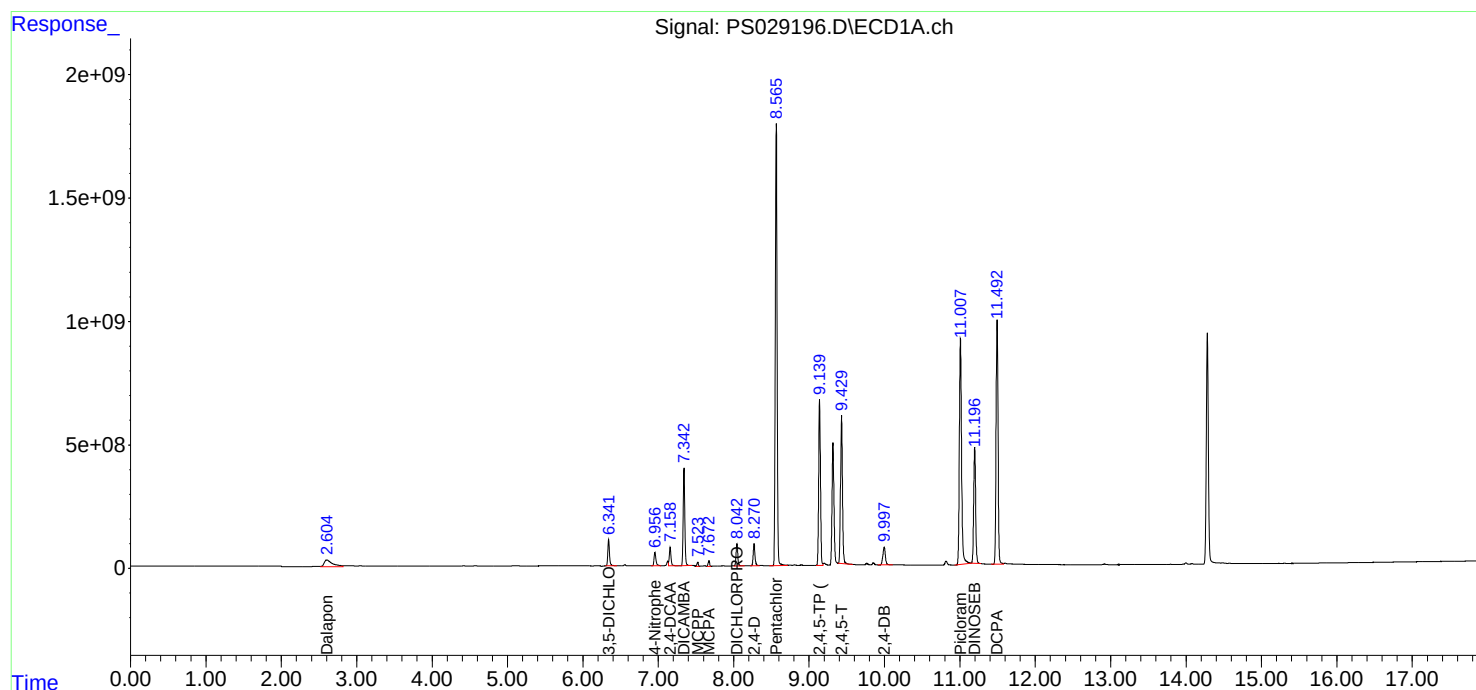
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

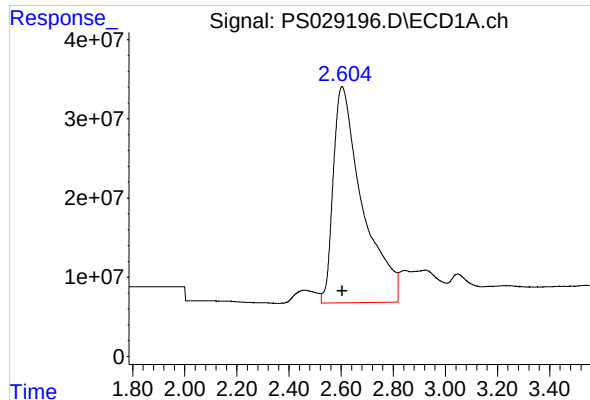
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029196.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 12:21
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS021925

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 12:39:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Wed Feb 19 12:36:23 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

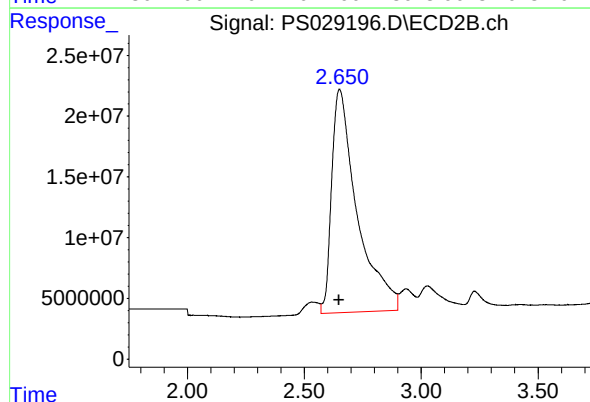




#1 Dalapon

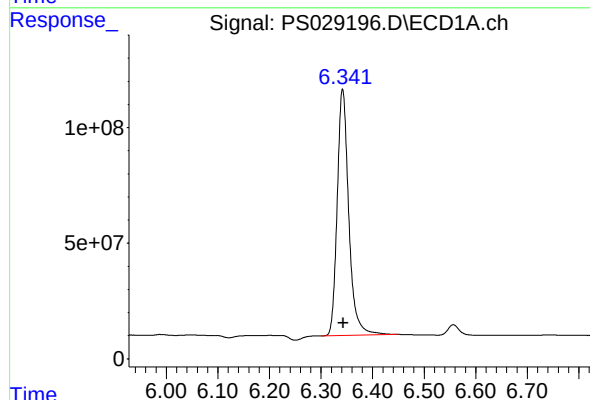
R.T.: 2.604 min
Delta R.T.: 0.000 min
Response: 2117684223
Conc: 644.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021925



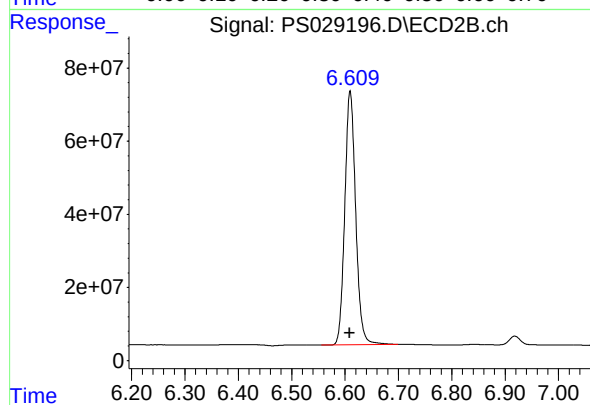
#1 Dalapon

R.T.: 2.650 min
Delta R.T.: 0.002 min
Response: 1395898475
Conc: 657.04 ng/ml



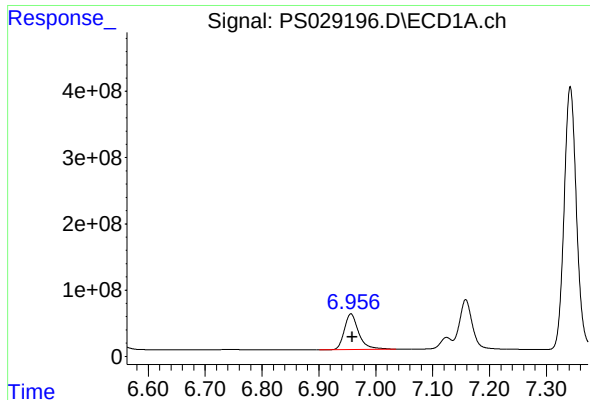
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.342 min
Delta R.T.: -0.001 min
Response: 1656476092
Conc: 665.13 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

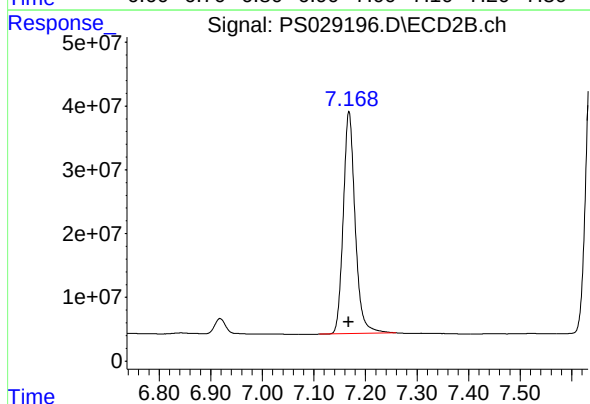
R.T.: 6.610 min
Delta R.T.: 0.001 min
Response: 984870944
Conc: 676.44 ng/ml



#3 4-Nitrophenol

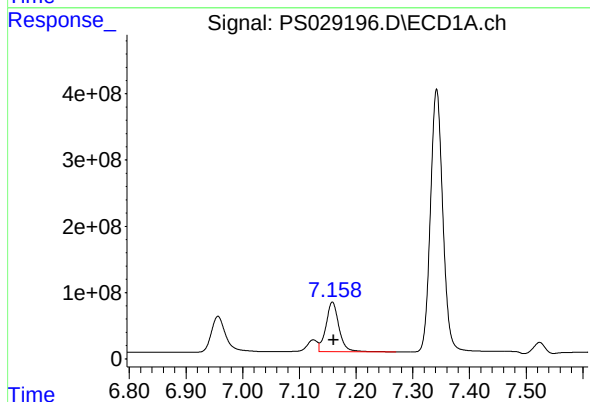
R.T.: 6.956 min
Delta R.T.: -0.003 min
Response: 938070317
Conc: 654.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021925



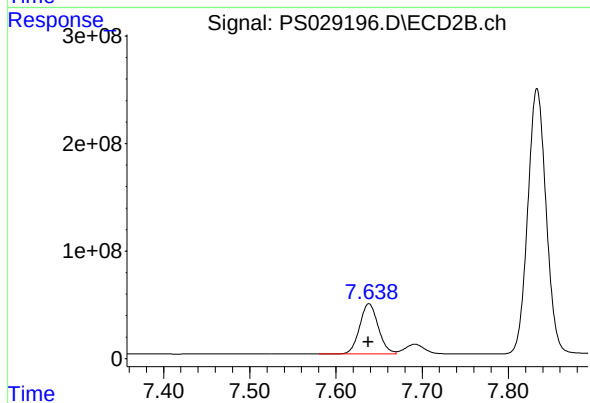
#3 4-Nitrophenol

R.T.: 7.168 min
Delta R.T.: 0.000 min
Response: 559502938
Conc: 653.34 ng/ml



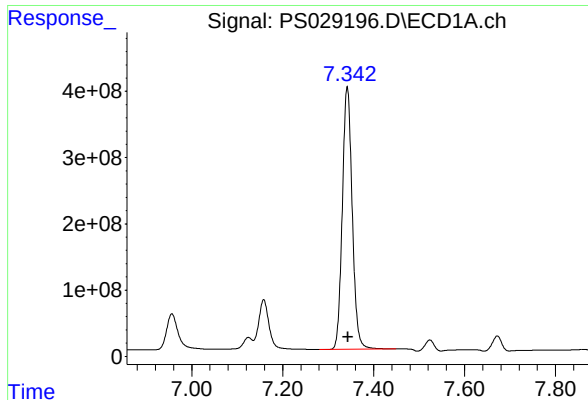
#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: -0.002 min
Response: 1193526172
Conc: 716.16 ng/ml



#4 2,4-DCAA

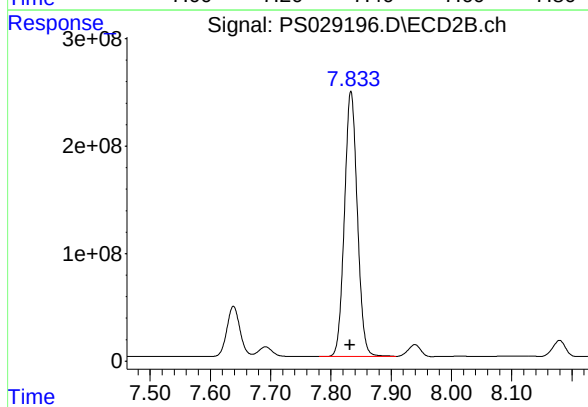
R.T.: 7.638 min
Delta R.T.: 0.000 min
Response: 701233245
Conc: 724.81 ng/ml



#5 DICAMBA

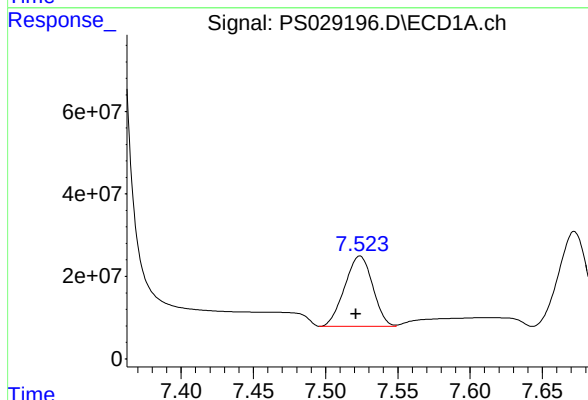
R.T.: 7.342 min
Delta R.T.: -0.001 min
Response: 5976329768
Conc: 681.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021925



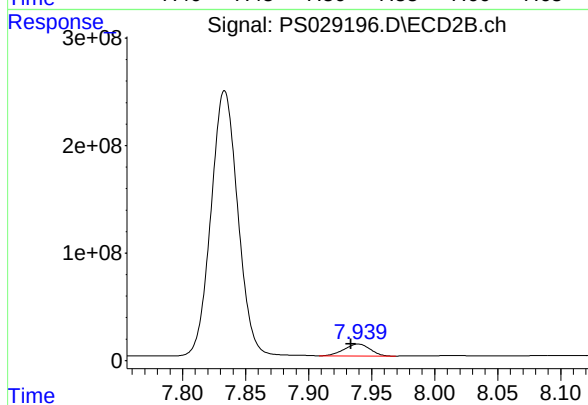
#5 DICAMBA

R.T.: 7.833 min
Delta R.T.: 0.001 min
Response: 3658355226
Conc: 692.48 ng/ml



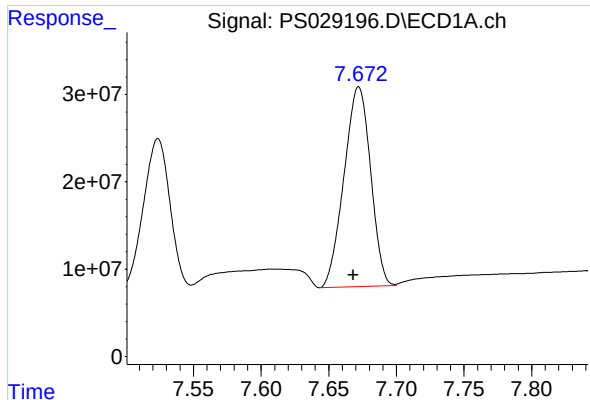
#6 MCPP

R.T.: 7.524 min
Delta R.T.: 0.003 min
Response: 229488236
Conc: 72.80 ug/ml



#6 MCPP

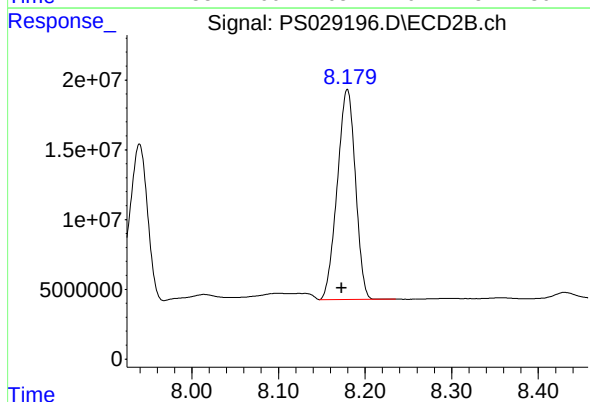
R.T.: 7.939 min
Delta R.T.: 0.006 min
Response: 160903294
Conc: 70.53 ug/ml



#7 MCPA

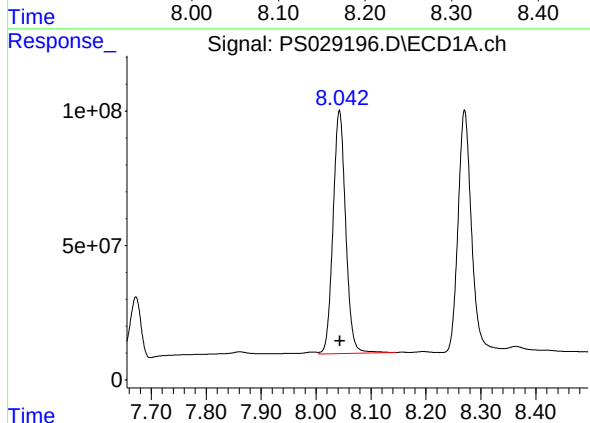
R.T.: 7.672 min
Delta R.T.: 0.004 min
Response: 312836321
Conc: 69.69 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021925



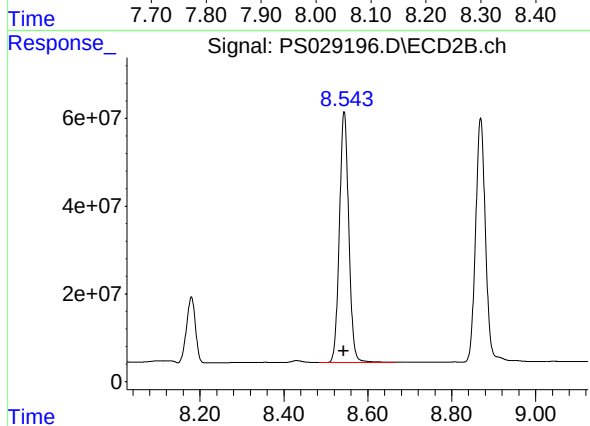
#7 MCPA

R.T.: 8.179 min
Delta R.T.: 0.006 min
Response: 219535660
Conc: 69.66 ug/ml



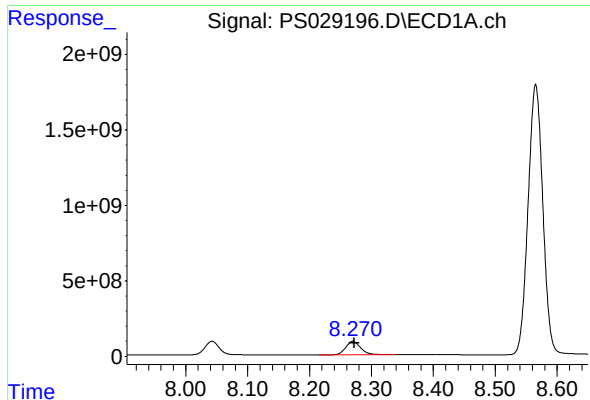
#8 DICHLORPROP

R.T.: 8.043 min
Delta R.T.: -0.001 min
Response: 1448030790
Conc: 648.99 ng/ml



#8 DICHLORPROP

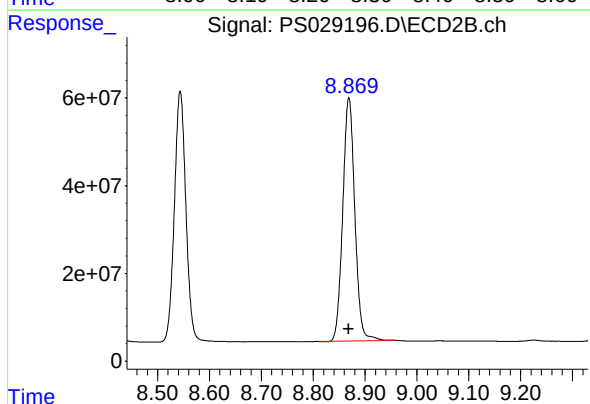
R.T.: 8.544 min
Delta R.T.: 0.001 min
Response: 885118116
Conc: 675.44 ng/ml



#9 2,4-D

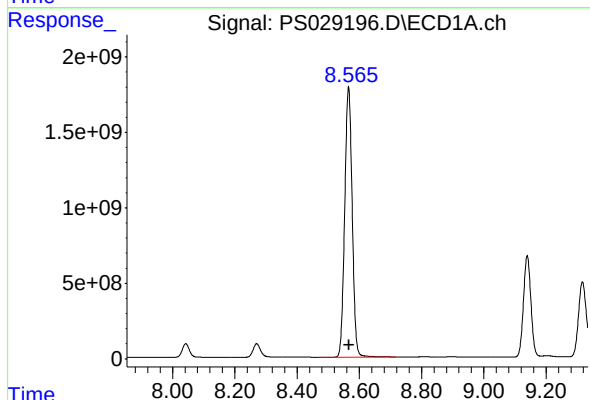
R.T.: 8.270 min
Delta R.T.: -0.002 min
Response: 1505819643
Conc: 662.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021925



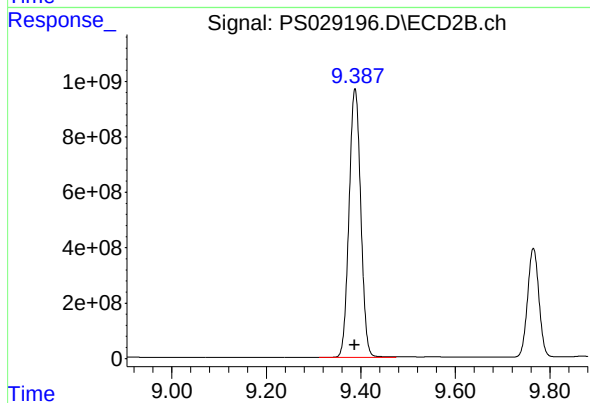
#9 2,4-D

R.T.: 8.869 min
Delta R.T.: 0.000 min
Response: 897566989
Conc: 684.23 ng/ml



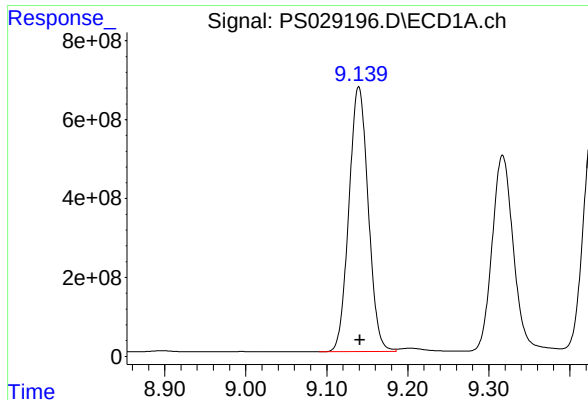
#10 Pentachlorophenol

R.T.: 8.565 min
Delta R.T.: -0.001 min
Response: 29755758509
Conc: 714.72 ng/ml



#10 Pentachlorophenol

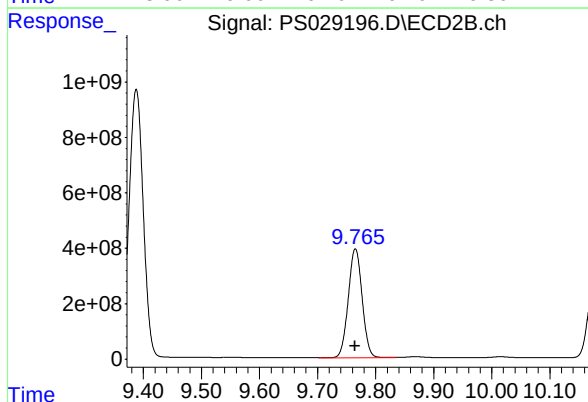
R.T.: 9.388 min
Delta R.T.: 0.001 min
Response: 16690681281
Conc: 701.54 ng/ml



#11 2,4,5-TP (SILVEX)

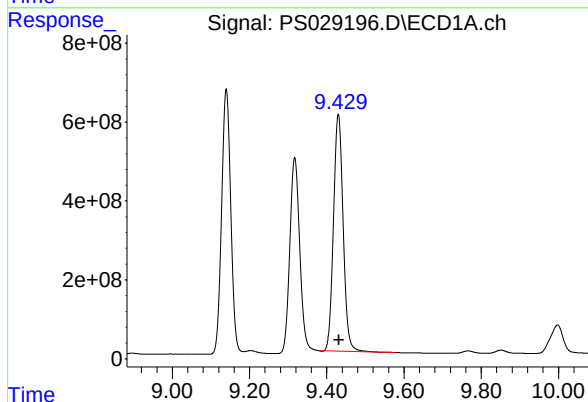
R.T.: 9.140 min
Delta R.T.: -0.002 min
Response: 11116271245
Conc: 689.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021925



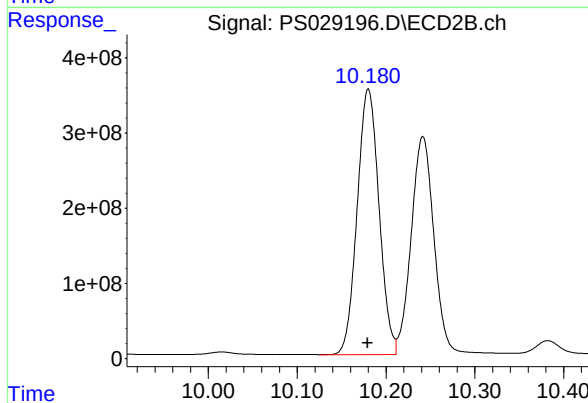
#11 2,4,5-TP (SILVEX)

R.T.: 9.765 min
Delta R.T.: 0.000 min
Response: 6561287049
Conc: 699.76 ng/ml



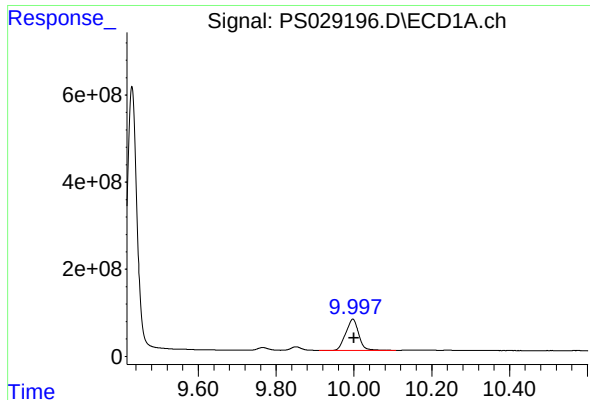
#12 2,4,5-T

R.T.: 9.430 min
Delta R.T.: -0.002 min
Response: 10477570648
Conc: 688.28 ng/ml



#12 2,4,5-T

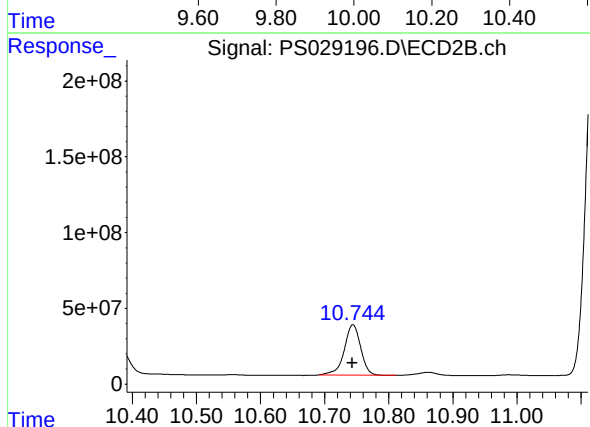
R.T.: 10.180 min
Delta R.T.: 0.000 min
Response: 6036859991
Conc: 697.62 ng/ml



#13 2,4-DB

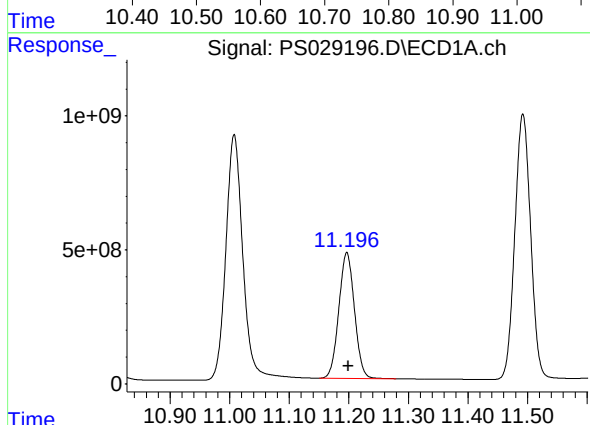
R.T.: 9.997 min
Delta R.T.: -0.003 min
Response: 1646576884
Conc: 681.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021925



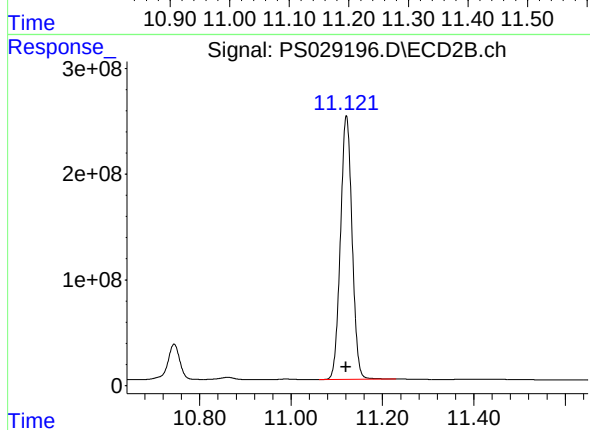
#13 2,4-DB

R.T.: 10.744 min
Delta R.T.: 0.000 min
Response: 591613555
Conc: 691.86 ng/ml



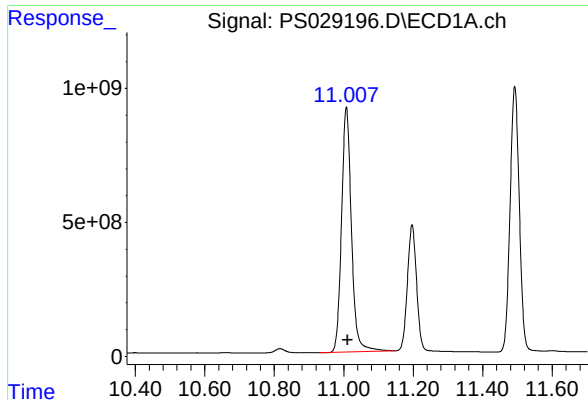
#14 DINOSEB

R.T.: 11.197 min
Delta R.T.: -0.002 min
Response: 8543650068
Conc: 672.42 ng/ml



#14 DINOSEB

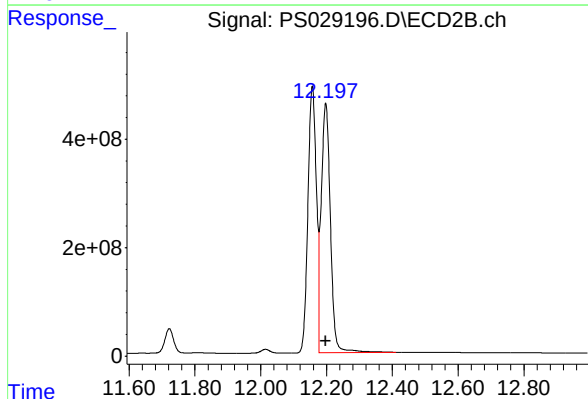
R.T.: 11.121 min
Delta R.T.: 0.001 min
Response: 4408208094
Conc: 680.74 ng/ml



#15 Picloram

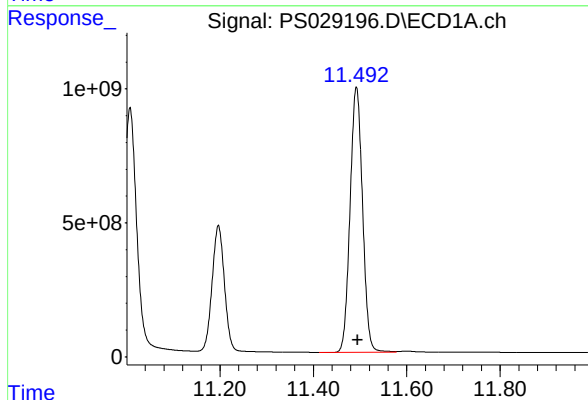
R.T.: 11.008 min
Delta R.T.: -0.004 min
Response: 18076653274
Conc: 691.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021925



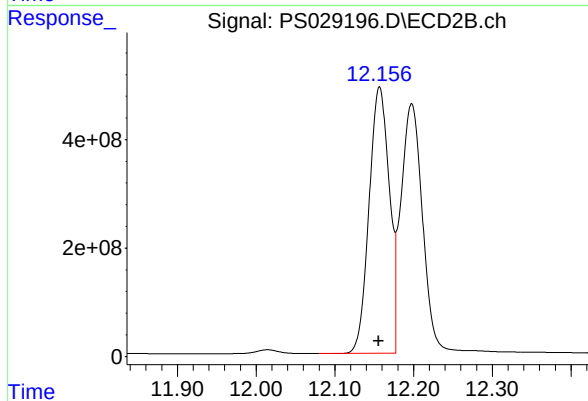
#15 Picloram

R.T.: 12.198 min
Delta R.T.: 0.000 min
Response: 8911715672
Conc: 710.65 ng/ml



#16 DCPA

R.T.: 11.492 min
Delta R.T.: -0.003 min
Response: 18304875881
Conc: 699.87 ng/ml



#16 DCPA

R.T.: 12.157 min
Delta R.T.: 0.001 min
Response: 8805665404
Conc: 708.87 ng/ml

RETENTION TIMES OF INITIAL CALIBRATION

Contract:	<u>NOBI03</u>						
Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1382</u>	SAS No.:	<u>Q1382</u>	SDG NO.:	<u>Q1382</u>
Instrument ID:	<u>ECD_S</u>	Calibration Date(s):		<u>02/21/2025</u>	<u>02/21/2025</u>		
		Calibration Times:		<u>19:56</u>	<u>21:32</u>		

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID:	RT 200 =	<u>PS029234.D</u>	RT 500 =	<u>PS029235.D</u>
	RT 750 =	PS029236.D	RT 1000 =	PS029237.D
			RT 1500 =	PS029238.D

[illegible]

GC Column: RTX-CLP2 ID: 0.32 (mm)

[illegible]



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

Instrument ID: ECD_S

Calibration Date(s): 02/21/2025 02/21/2025

Calibration Times: 19:56 21:32

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID:		CF 200 =	<u>PS029234.D</u>	CF 500 =	<u>PS029235.D</u>		
CF 750 =		<u>PS029236.D</u>	CF 1000 =	<u>PS029237.D</u>	CF 1500 =	<u>PS029238.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	29607100000	26268900000	24860300000	24114000000	22593200000	25488700000	10
2,4,5-TP(Silvex)	28468600000	25326000000	23950000000	23359600000	21830500000	24586900000	10
2,4-D	5578960000	4794680000	4576300000	4498750000	4303460000	4750430000	10
2,4-DB	4488720000	4180160000	4092070000	4108380000	4007810000	4175430000	4
2,4-DCAA	4834500000	4175340000	3953240000	3904380000	3735430000	4120580000	10
Dalapon	6274730000	5520590000	5334970000	5283910000	5187230000	5520290000	8
DICAMBA	19601700000	17685800000	16950400000	16715200000	15876700000	17366000000	8
DICHLORPROP	5513800000	4628210000	4384630000	4319110000	4136550000	4596460000	12
Dinoseb	19185600000	17038000000	16150800000	15817400000	14962300000	16630800000	10

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: NOBI03
Lab Code: CHEM **Case No.:** Q1382 **SAS No.:** Q1382 **SDG NO.:** Q1382
Instrument ID: ECD_S **Calibration Date(s):** 02/21/2025 02/21/2025
Calibration Times: 19:56 21:32
GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:CF 200 = PS029234.DCF 500 = PS029235.D CF 750 = PS029236.DCF 1000 = PS029237.DCF 1500 = PS029238.D							
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	8429230000	8216460000	8163170000	8194980000	8047610000	8210290000	2
2,4,5-TP(Silvex)	9297750000	9072730000	8996050000	9011120000	8805850000	9036700000	2
2,4-D	1363000000	1257020000	1239960000	1254990000	1234500000	1269900000	4
2,4-DB	793011000	754052000	749826000	760484000	770584000	765591000	2
2,4-DCAA	1014780000	934728000	917942000	923871000	910342000	940333000	5
Dalapon	2379510000	2098350000	2055290000	2046690000	2005750000	2117120000	7
DICAMBA	5109890000	5077600000	5124980000	5240080000	5212300000	5152970000	1
DICHLORPROP	1398400000	1270890000	1245140000	1249450000	1229920000	1278760000	5
Dinoseb	6375280000	6049280000	5959160000	6001540000	5922360000	6061520000	3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029234.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 19:56
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC200

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 22 00:46:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.161	7.633	966.9E6	203.0E6	244.585	221.099
Target Compounds							
1) T	Dalapon	2.596	2.647	1142.0E6	433.1E6	214.059	210.711
2) T	3,5-DICHL...	6.343	6.605	1252.0E6	283.3E6	220.475	204.397
3) T	4-Nitroph...	6.963	7.165	432.8E6	156.3E6	186.506	200.822
5) T	DICAMBA	7.343	7.827	3685.1E6	960.7E6	217.406	187.446
6) T	MCPD	7.519	7.928	211.8E6	40449994	17.087	17.193
7) T	MCPA	7.666	8.167	314.8E6	56152825	18.744	17.627
8) T	DICHLORPROP	8.043	8.537	1036.6E6	262.9E6	236.416	211.141
9) T	2,4-D	8.274	8.863	1048.8E6	256.2E6	229.191	206.654
10) T	Pentachlo...	8.564	9.379	14573.6E6	4615.9E6	245.609	201.204
11) T	2,4,5-TP ...	9.139	9.756	5409.0E6	1766.6E6	225.847	196.372
12) T	2,4,5-T	9.431	10.172	5625.4E6	1601.6E6	226.279	196.193
13) T	2,4-DB	10.001	10.735	852.9E6	150.7E6	208.417	200.943
14) T	DINOSEB	11.195	11.110	3606.9E6	1198.6E6	223.327	201.128
15) T	Picloram	11.011	12.188	6139.0E6	2015.5E6	202.335	171.699
16) T	DCPA	11.491	12.144	6822.9E6	2326.8E6	233.593	196.624

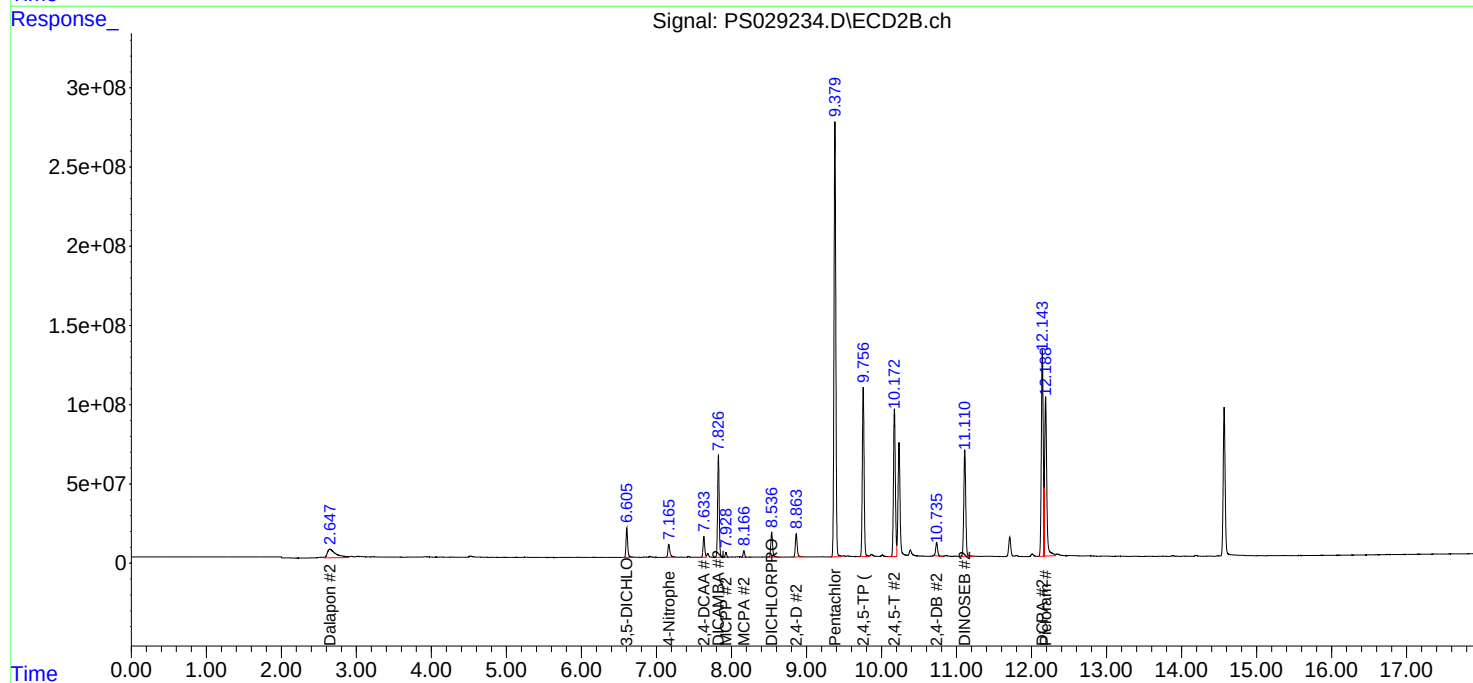
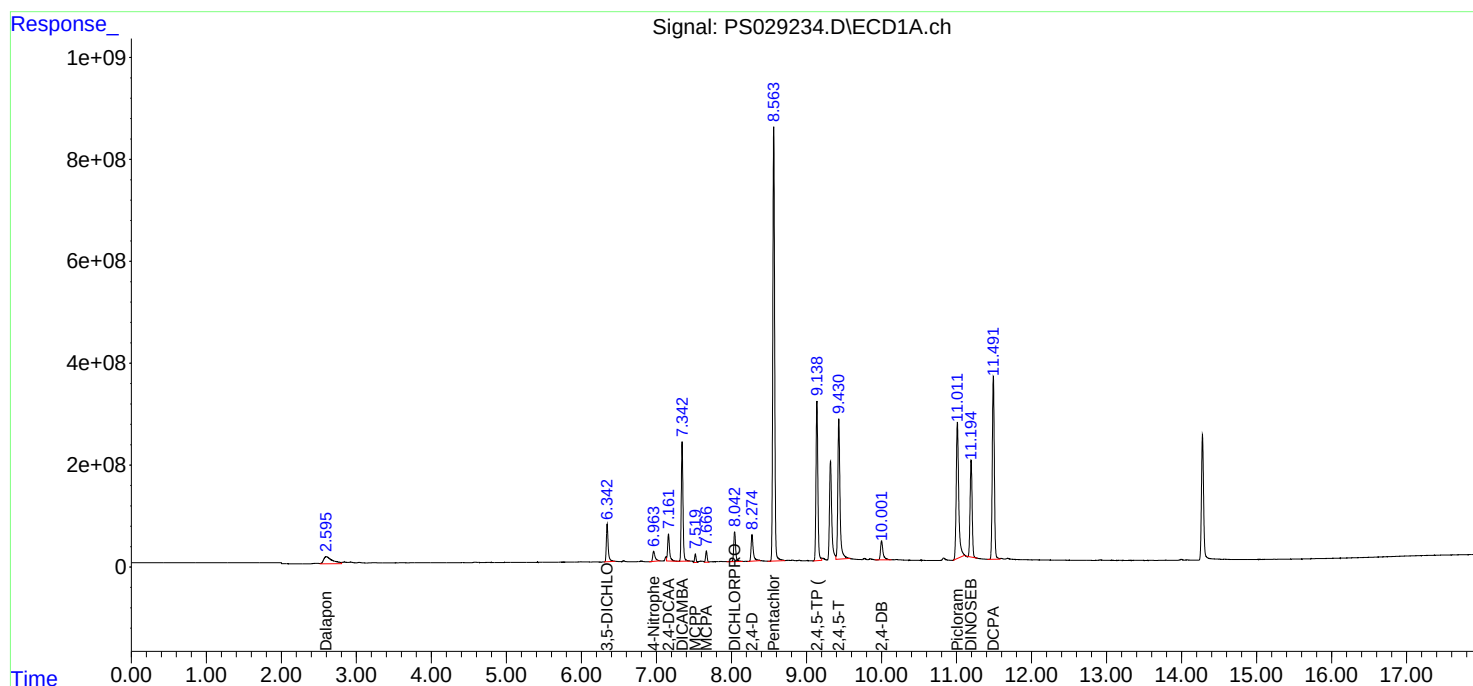
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029234.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 19:56
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

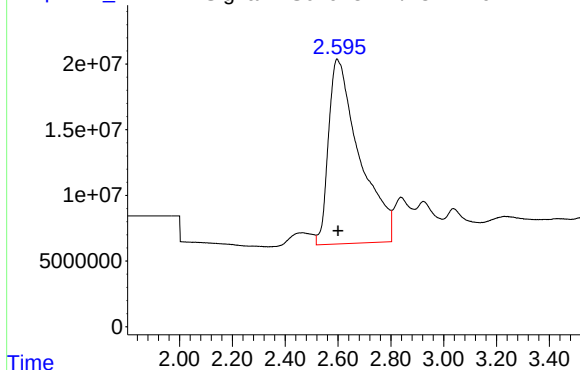
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:46:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Signal: PS029234.D\ECD1A.ch

#1 Dalapon

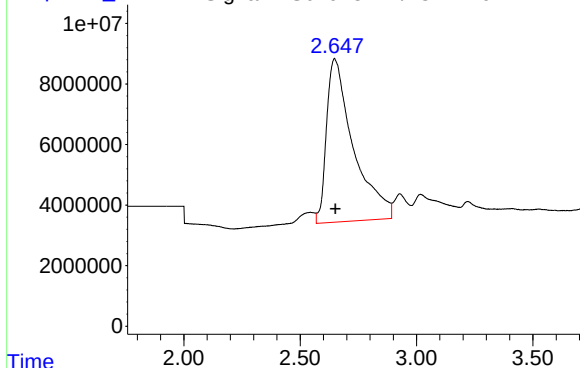


R.T.: 2.596 min
Delta R.T.: -0.004 min
Response: 1142001055
Conc: 214.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Signal: PS029234.D\ECD2B.ch

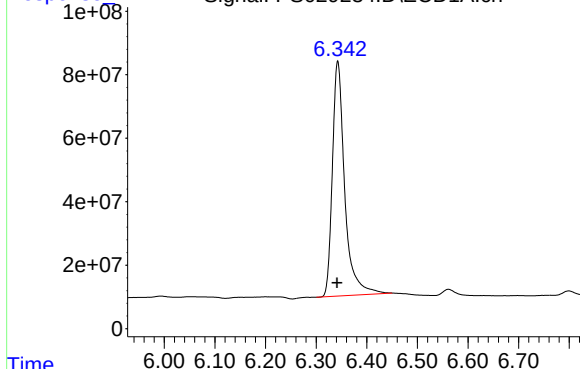
#1 Dalapon



R.T.: 2.647 min
Delta R.T.: -0.004 min
Response: 433071514
Conc: 210.71 ng/ml

Signal: PS029234.D\ECD1A.ch

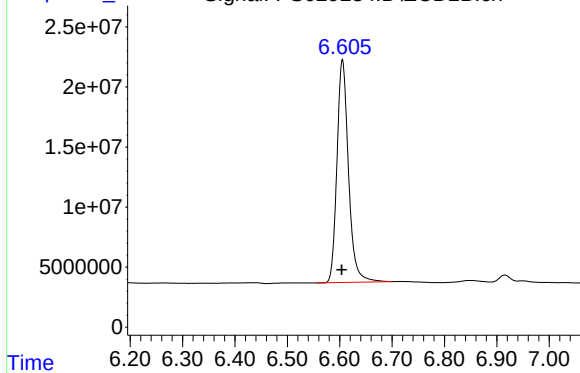
#2 3,5-DICHLOROBENZOIC ACID



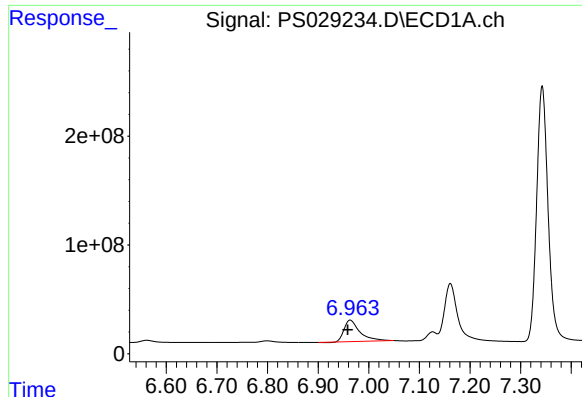
R.T.: 6.343 min
Delta R.T.: 0.001 min
Response: 1251982694
Conc: 220.48 ng/ml

Signal: PS029234.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID



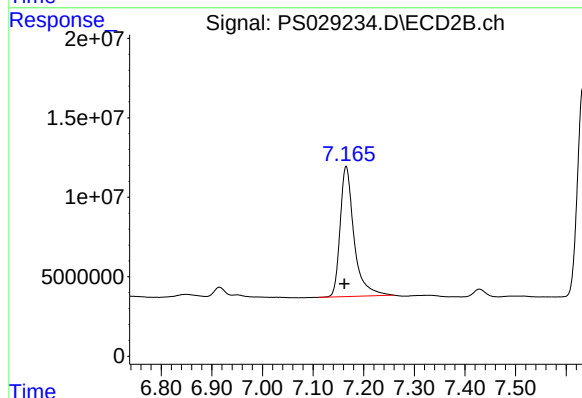
R.T.: 6.605 min
Delta R.T.: 0.001 min
Response: 283333012
Conc: 204.40 ng/ml



#3 4-Nitrophenol

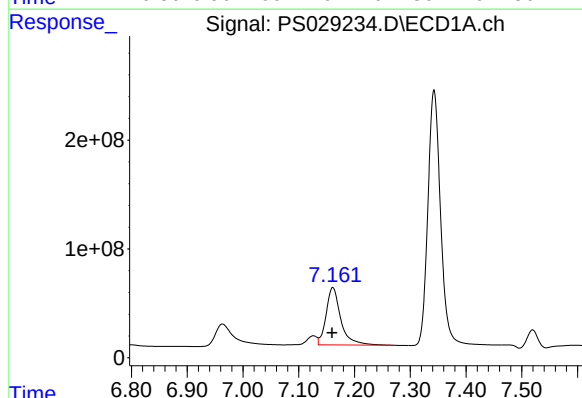
R.T.: 6.963 min
Delta R.T.: 0.005 min
Response: 432821873
Conc: 186.51 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



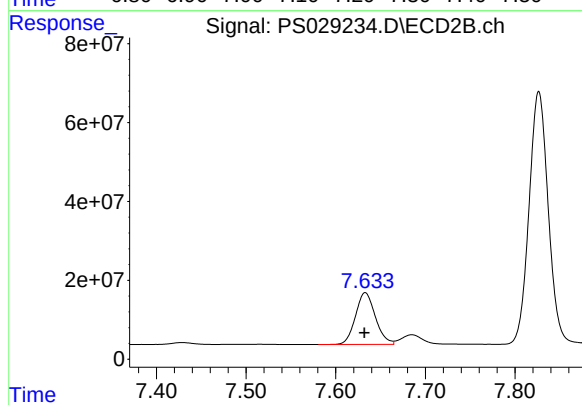
#3 4-Nitrophenol

R.T.: 7.165 min
Delta R.T.: 0.003 min
Response: 156332495
Conc: 200.82 ng/ml



#4 2,4-DCAA

R.T.: 7.161 min
Delta R.T.: 0.001 min
Response: 966900606
Conc: 244.58 ng/ml

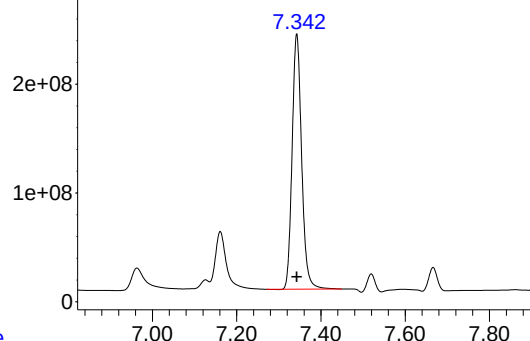


#4 2,4-DCAA

R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 202955943
Conc: 221.10 ng/ml

Response_ Signal: PS029234.D\ECD1A.ch

#5 DICAMBA

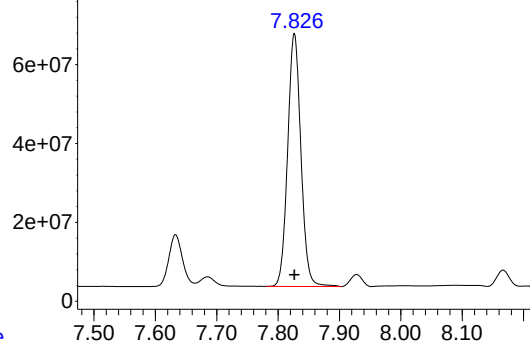


R.T.: 7.343 min
Delta R.T.: 0.000 min
Response: 3685113499
Conc: 217.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Time Response_ Signal: PS029234.D\ECD2B.ch

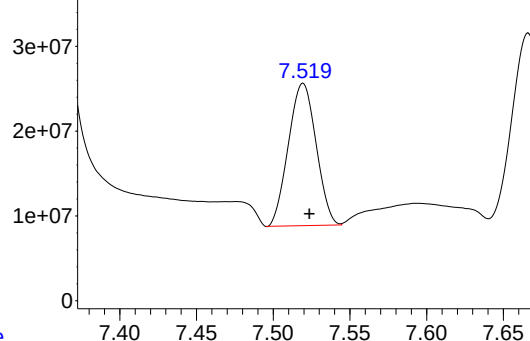
#5 DICAMBA



R.T.: 7.827 min
Delta R.T.: 0.000 min
Response: 960658649
Conc: 187.45 ng/ml

Time Response_ Signal: PS029234.D\ECD1A.ch

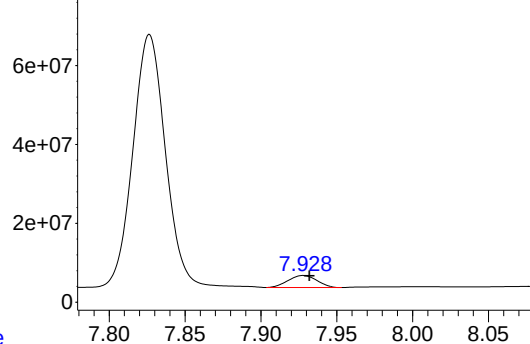
#6 MCP



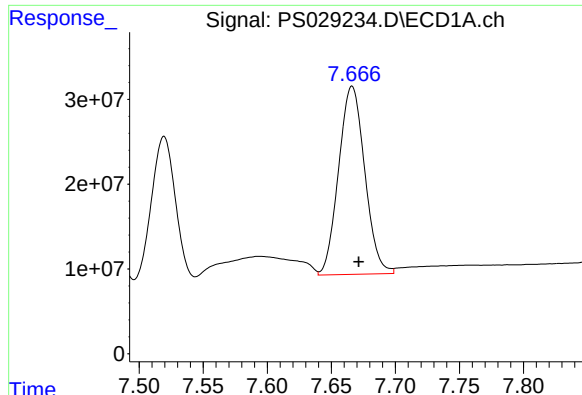
R.T.: 7.519 min
Delta R.T.: -0.004 min
Response: 211814037
Conc: 17.09 ug/ml

Time Response_ Signal: PS029234.D\ECD2B.ch

#6 MCP



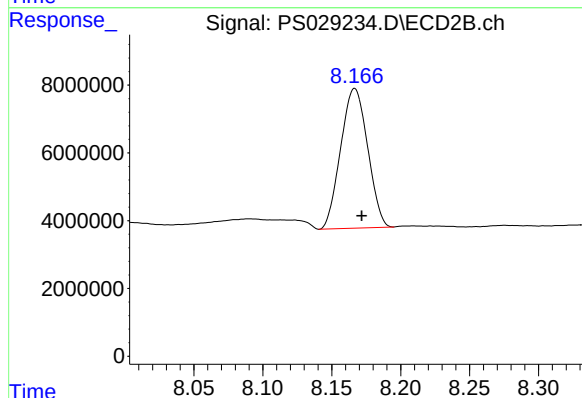
R.T.: 7.928 min
Delta R.T.: -0.004 min
Response: 40449994
Conc: 17.19 ug/ml



#7 MCPA

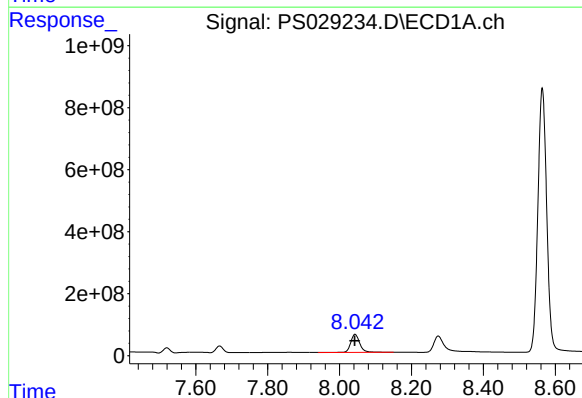
R.T.: 7.666 min
Delta R.T.: -0.005 min
Response: 314812745
Conc: 18.74 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



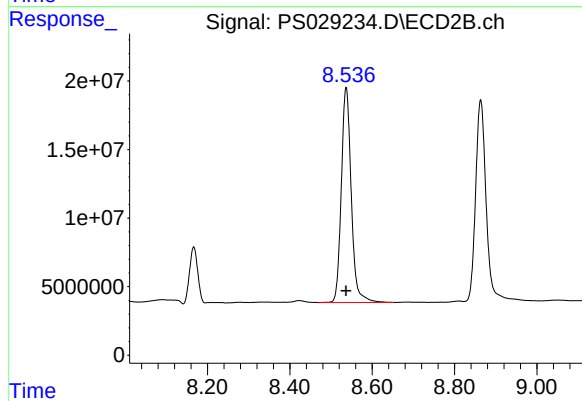
#7 MCPA

R.T.: 8.167 min
Delta R.T.: -0.005 min
Response: 56152825
Conc: 17.63 ug/ml



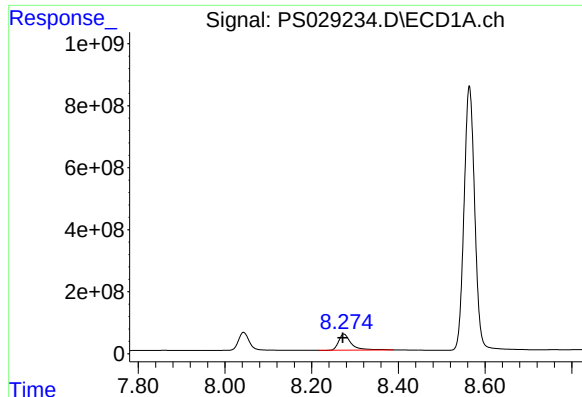
#8 DICHLORPROP

R.T.: 8.043 min
Delta R.T.: 0.001 min
Response: 1036594665
Conc: 236.42 ng/ml



#8 DICHLORPROP

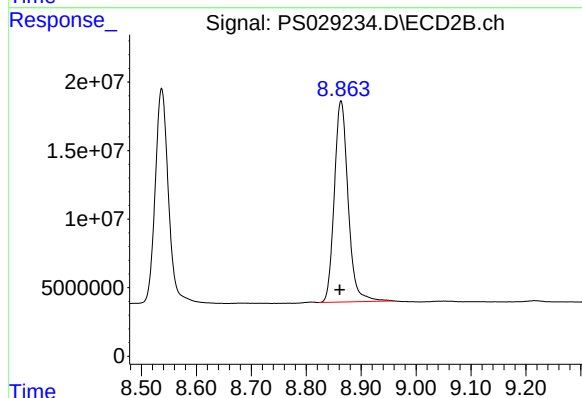
R.T.: 8.537 min
Delta R.T.: 0.000 min
Response: 262899243
Conc: 211.14 ng/ml



#9 2,4-D

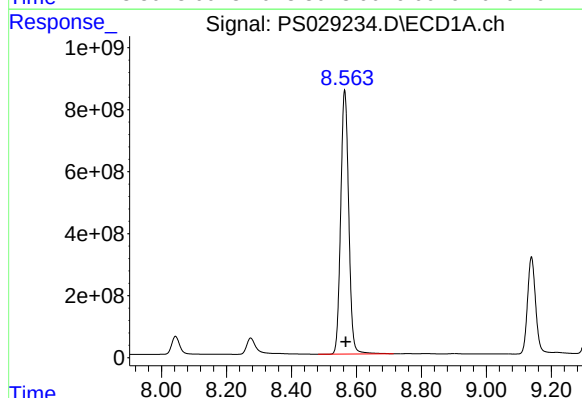
R.T.: 8.274 min
Delta R.T.: 0.003 min
Response: 1048844922
Conc: 229.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



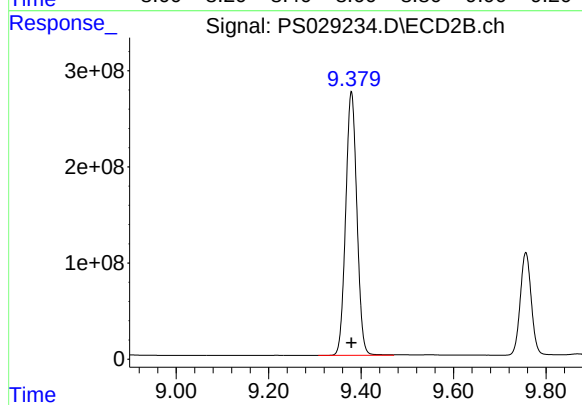
#9 2,4-D

R.T.: 8.863 min
Delta R.T.: 0.002 min
Response: 256243065
Conc: 206.65 ng/ml



#10 Pentachlorophenol

R.T.: 8.564 min
Delta R.T.: -0.003 min
Response: 14573644324
Conc: 245.61 ng/ml



#10 Pentachlorophenol

R.T.: 9.379 min
Delta R.T.: 0.000 min
Response: 4615906188
Conc: 201.20 ng/ml

Response_

Signal: PS029234.D\ECD1A.ch

#11 2,4,5-TP (SILVEX)

R.T.: 9.139 min

Delta R.T.: 0.000 min

Response: 5409038369

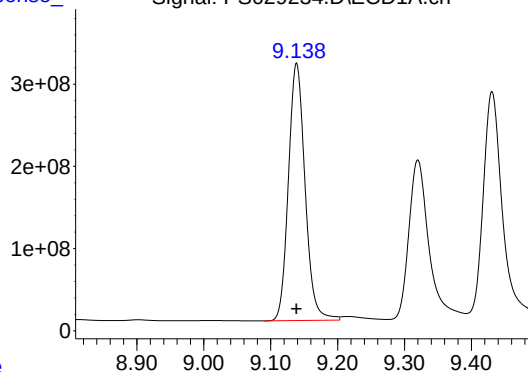
Conc: 225.85 ng/ml

Instrument :

ECD_S

ClientSampleId :

HSTDICC200



Time

Response_

Signal: PS029234.D\ECD2B.ch

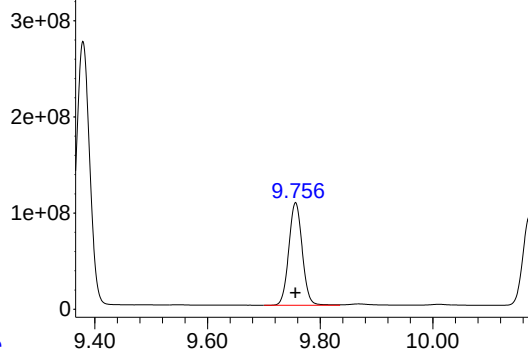
#11 2,4,5-TP (SILVEX)

R.T.: 9.756 min

Delta R.T.: 0.000 min

Response: 1766573335

Conc: 196.37 ng/ml



Time

Response_

Signal: PS029234.D\ECD1A.ch

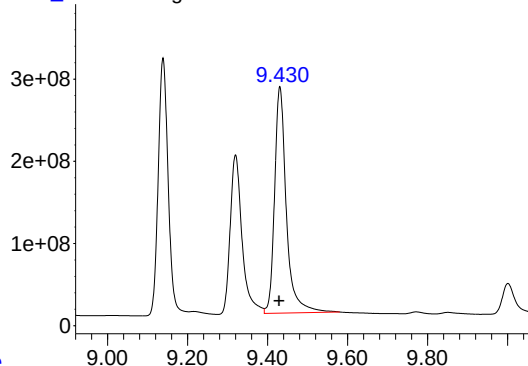
#12 2,4,5-T

R.T.: 9.431 min

Delta R.T.: 0.002 min

Response: 5625357213

Conc: 226.28 ng/ml



Time

Response_

Signal: PS029234.D\ECD2B.ch

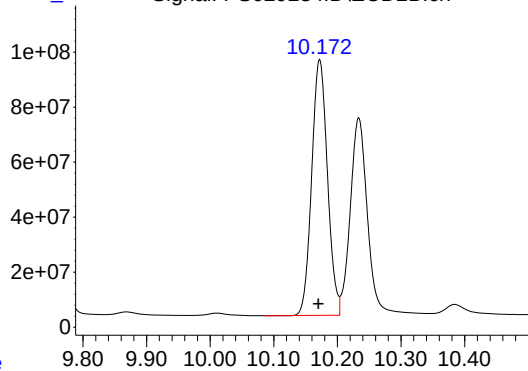
#12 2,4,5-T

R.T.: 10.172 min

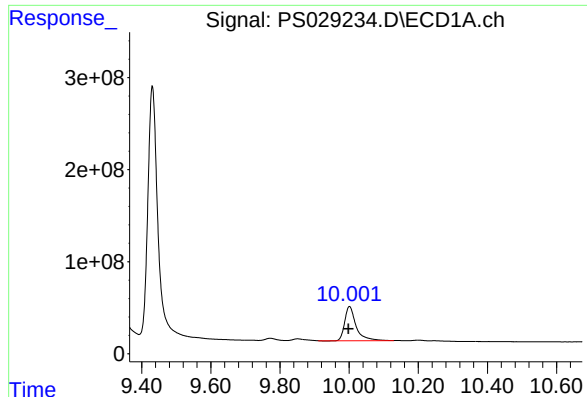
Delta R.T.: 0.002 min

Response: 1601554240

Conc: 196.19 ng/ml



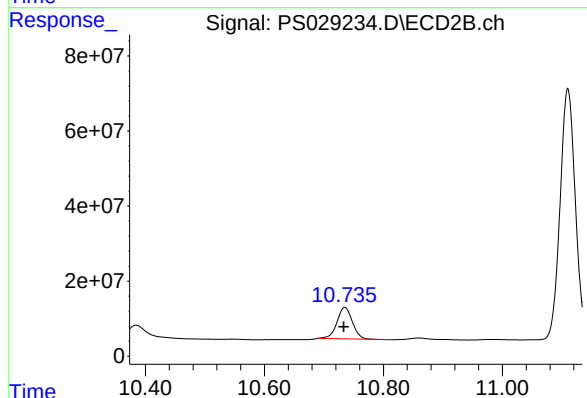
Time



#13 2,4-DB

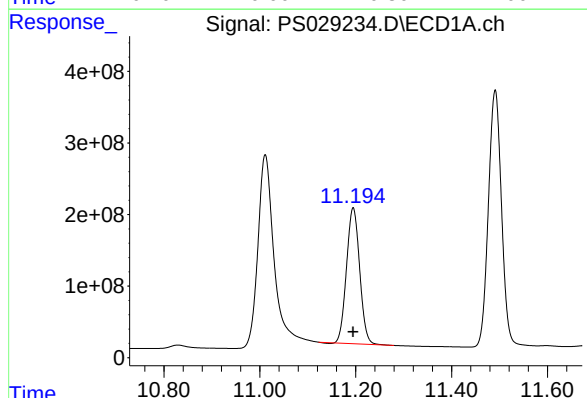
R.T.: 10.001 min
Delta R.T.: 0.003 min
Response: 852856384
Conc: 208.42 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



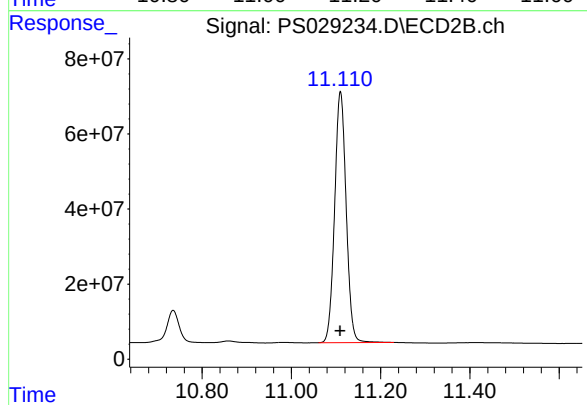
#13 2,4-DB

R.T.: 10.735 min
Delta R.T.: 0.001 min
Response: 150672109
Conc: 200.94 ng/ml



#14 DINOSEB

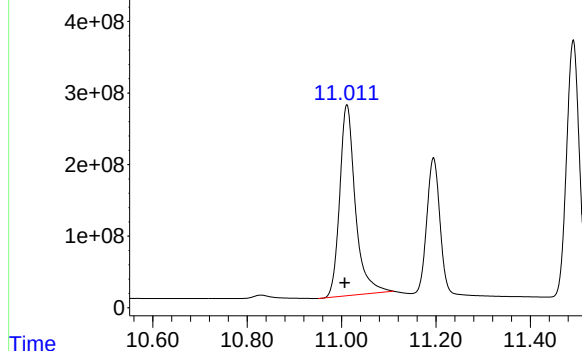
R.T.: 11.195 min
Delta R.T.: 0.000 min
Response: 3606901847
Conc: 223.33 ng/ml



#14 DINOSEB

R.T.: 11.110 min
Delta R.T.: 0.000 min
Response: 1198552448
Conc: 201.13 ng/ml

Response_ Signal: PS029234.D\ECD1A.ch

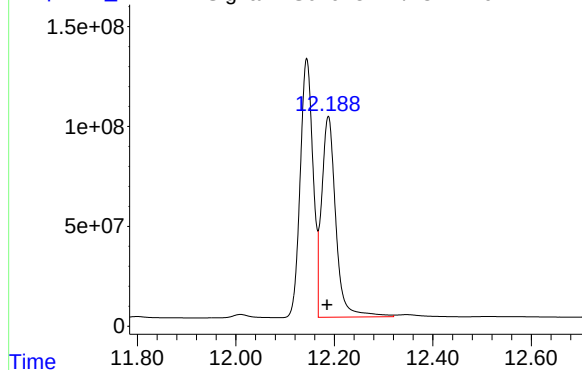


#15 Picloram

R.T.: 11.011 min
Delta R.T.: 0.005 min
Response: 6139032848
Conc: 202.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

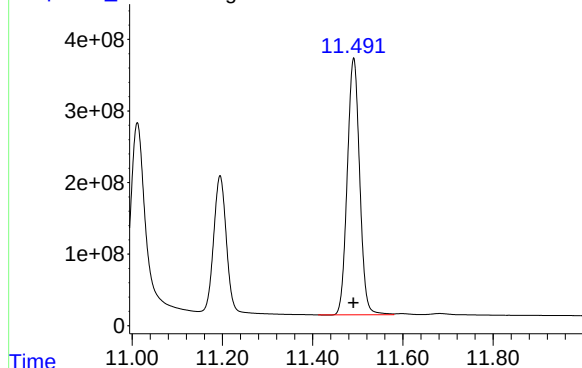
Time Response_ Signal: PS029234.D\ECD2B.ch



#15 Picloram

R.T.: 12.188 min
Delta R.T.: 0.003 min
Response: 2015527451
Conc: 171.70 ng/ml

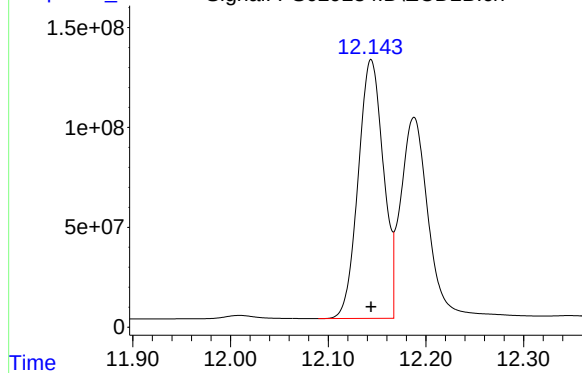
Time Response_ Signal: PS029234.D\ECD1A.ch



#16 DCPA

R.T.: 11.491 min
Delta R.T.: 0.000 min
Response: 6822921971
Conc: 233.59 ng/ml

Time Response_ Signal: PS029234.D\ECD2B.ch



#16 DCPA

R.T.: 12.144 min
Delta R.T.: 0.000 min
Response: 2326789068
Conc: 196.62 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029235.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 20:20
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 22 00:46:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.159	7.632	2087.7E6	467.4E6	528.092	509.143
Target Compounds							
1) T	Dalapon	2.600	2.647	2511.9E6	954.7E6	470.830	464.533
2) T	3,5-DICHL...	6.341	6.604	2763.0E6	657.1E6	486.564	474.062
3) T	4-Nitroph...	6.959	7.162	1060.1E6	360.9E6	456.796	463.544
5) T	DICAMBA	7.342	7.826	8312.3E6	2386.5E6	490.391	465.655
6) T	MCPD	7.521	7.930	561.5E6	108.2E6	45.295	45.999
7) T	MCPA	7.669	8.169	771.2E6	147.5E6	45.913	46.301
8) T	DICHLORPROP	8.042	8.536	2175.3E6	597.3E6	496.110	479.719
9) T	2,4-D	8.272	8.862	2253.5E6	590.8E6	492.428	476.467
10) T	Pentachlo...	8.564	9.378	31867.7E6	11155.7E6	537.064	486.268
11) T	2,4,5-TP ...	9.138	9.756	12029.9E6	4309.5E6	502.291	479.049
12) T	2,4,5-T	9.429	10.171	12477.7E6	3902.8E6	501.914	478.101
13) T	2,4-DB	9.999	10.734	1985.6E6	358.2E6	485.225	477.677
14) T	DINOSEB	11.194	11.109	8007.8E6	2843.2E6	495.817	477.108
15) T	Picloram	11.007	12.186	14681.6E6	5312.2E6	483.886	452.539
16) T	DCPA	11.489	12.143	14931.6E6	5704.8E6	511.208	482.083

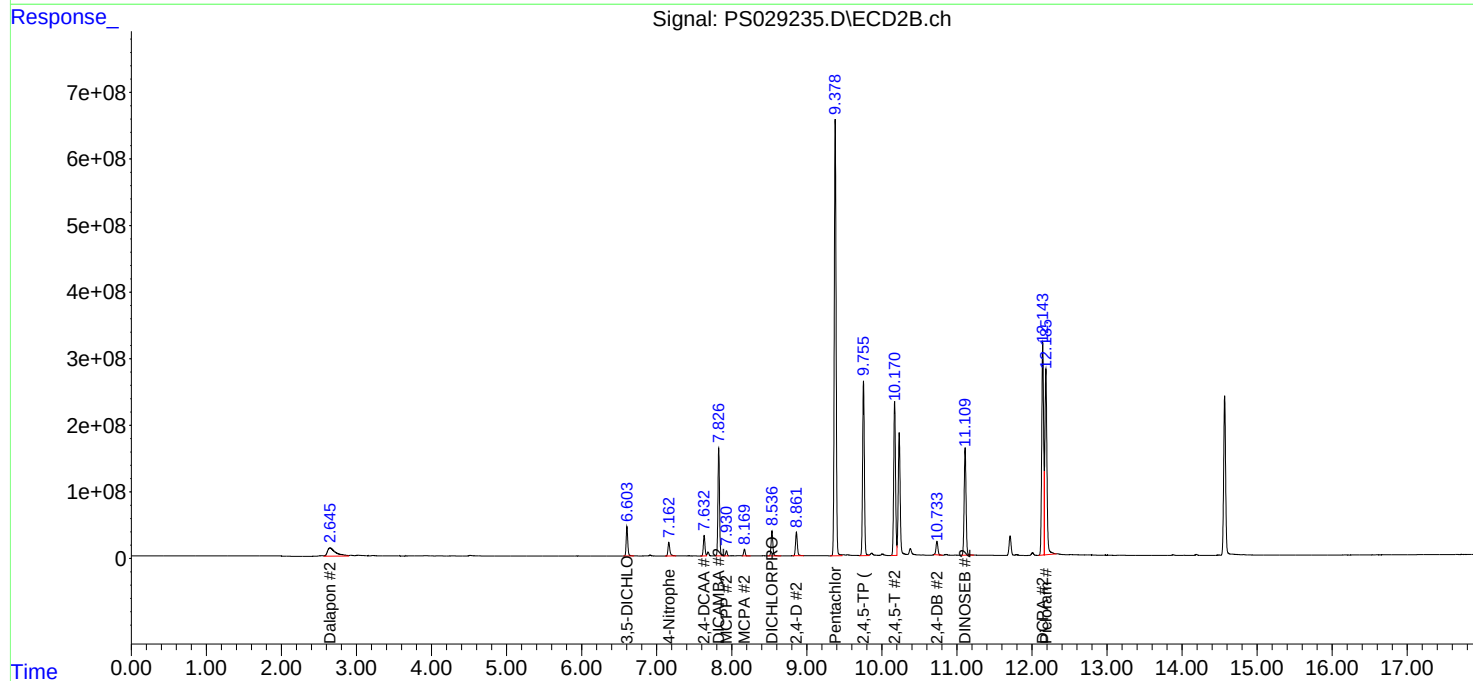
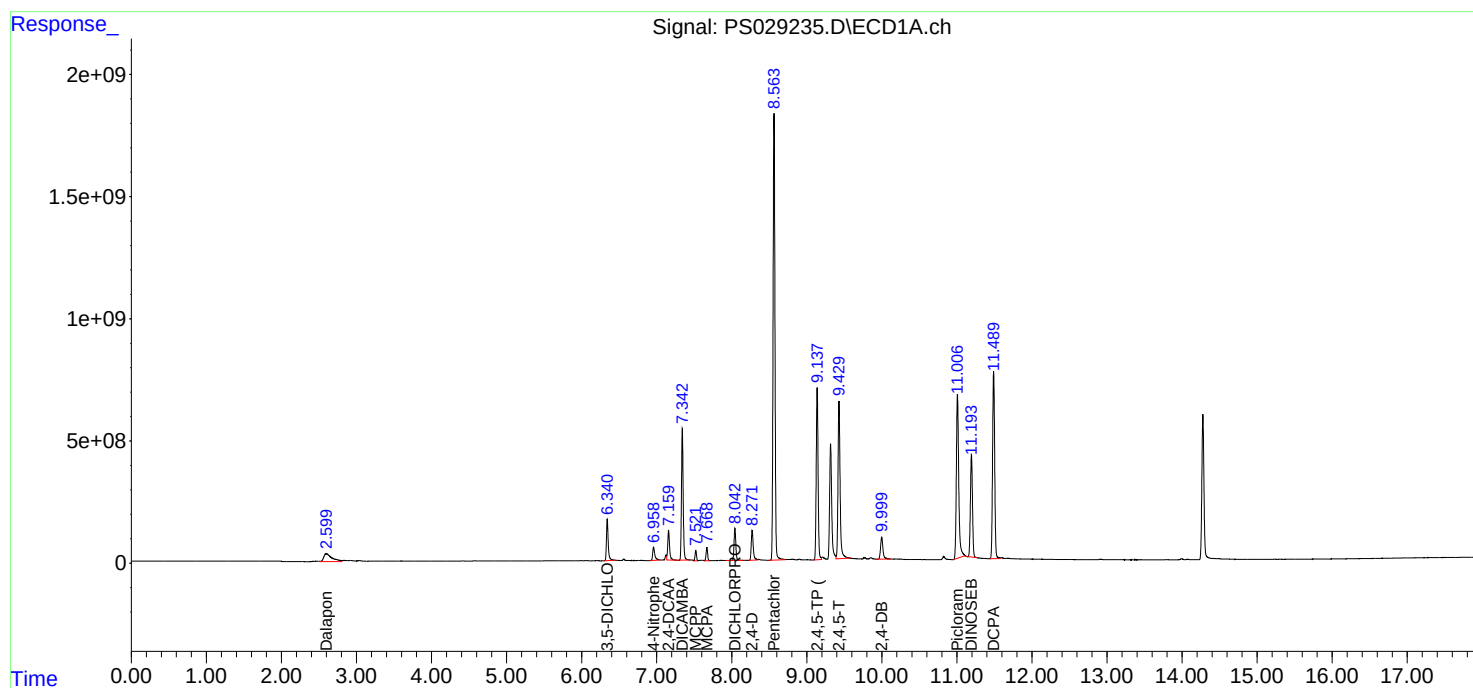
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029235.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 20:20
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

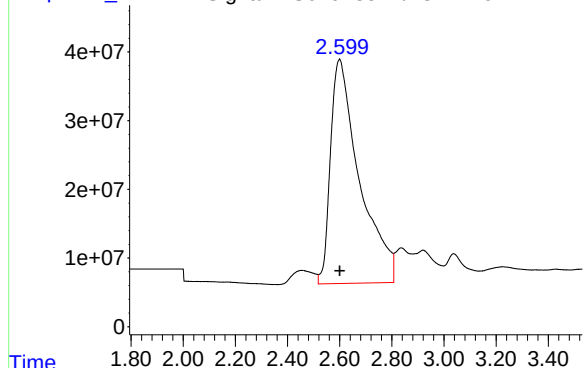
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:46:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS029235.D\ECD1A.ch

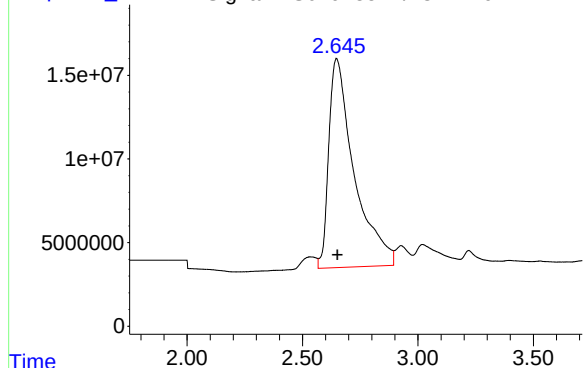


#1 Dalapon

R.T.: 2.600 min
Delta R.T.: 0.000 min
Response: 2511866588
Conc: 470.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

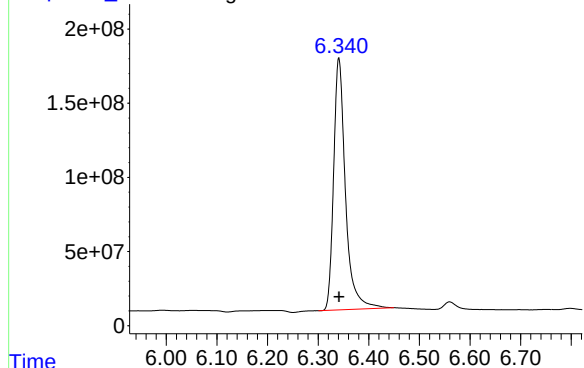
Response_ Signal: PS029235.D\ECD2B.ch



#1 Dalapon

R.T.: 2.647 min
Delta R.T.: -0.004 min
Response: 954749697
Conc: 464.53 ng/ml

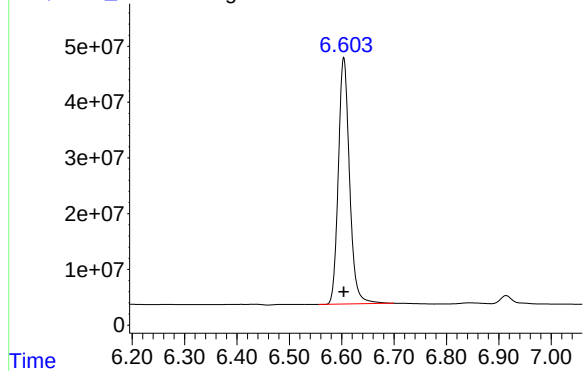
Response_ Signal: PS029235.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

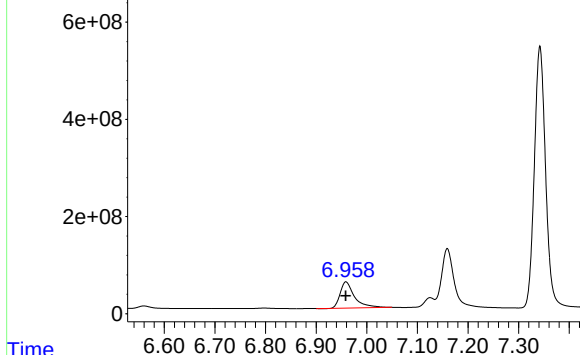
R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 2762985989
Conc: 486.56 ng/ml

Response_ Signal: PS029235.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 657140756
Conc: 474.06 ng/ml



R.T.: 6.959 min
Delta R.T.: 0.000 min
Response: 1060081366
Conc: 456.80 ng/ml

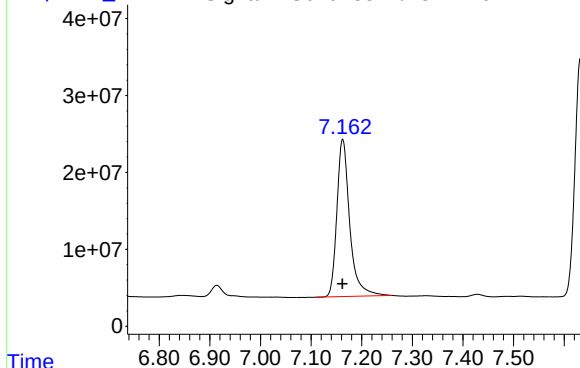
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_

Signal: PS029235.D\ECD2B.ch

#3 4-Nitrophenol



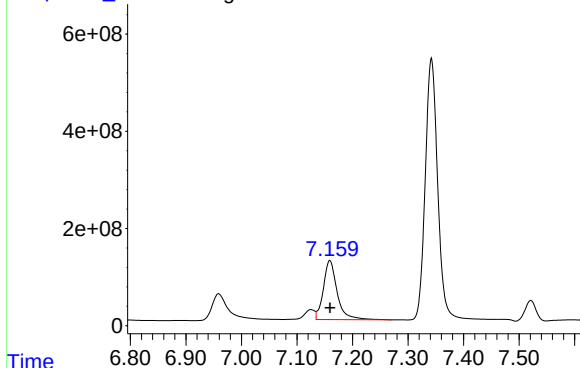
R.T.: 7.162 min
Delta R.T.: 0.000 min
Response: 360850578
Conc: 463.54 ng/ml

Time

Response_

Signal: PS029235.D\ECD1A.ch

#4 2,4-DCAA



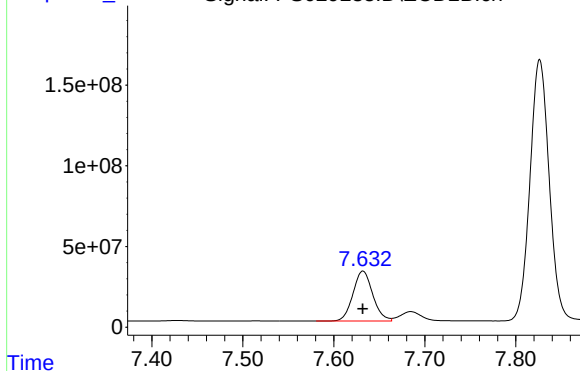
R.T.: 7.159 min
Delta R.T.: 0.000 min
Response: 2087670625
Conc: 528.09 ng/ml

Time

Response_

Signal: PS029235.D\ECD2B.ch

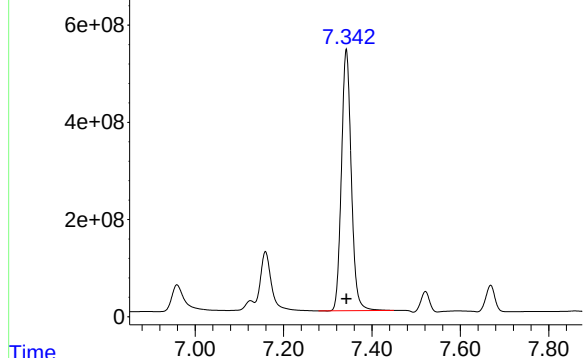
#4 2,4-DCAA



R.T.: 7.632 min
Delta R.T.: 0.000 min
Response: 467364139
Conc: 509.14 ng/ml

Time

Response_ Signal: PS029235.D\ECD1A.ch

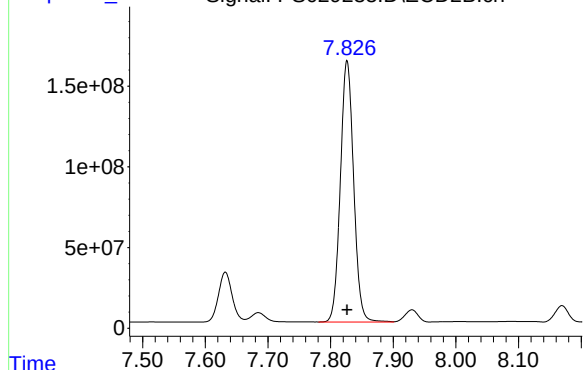


#5 DICAMBA

R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 8312333751
Conc: 490.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

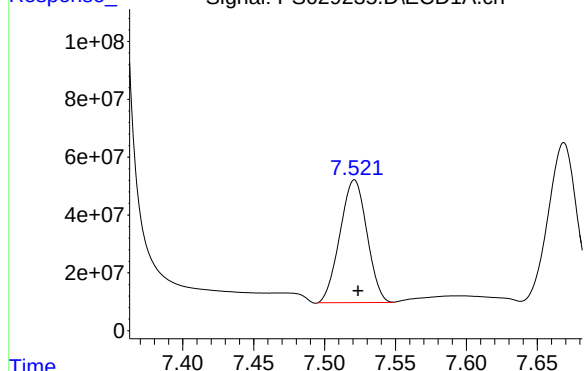
Time Response_ Signal: PS029235.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.826 min
Delta R.T.: 0.000 min
Response: 2386474119
Conc: 465.66 ng/ml

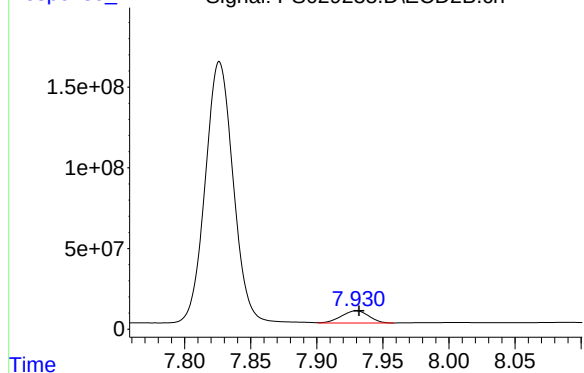
Time Response_ Signal: PS029235.D\ECD1A.ch



#6 MCP

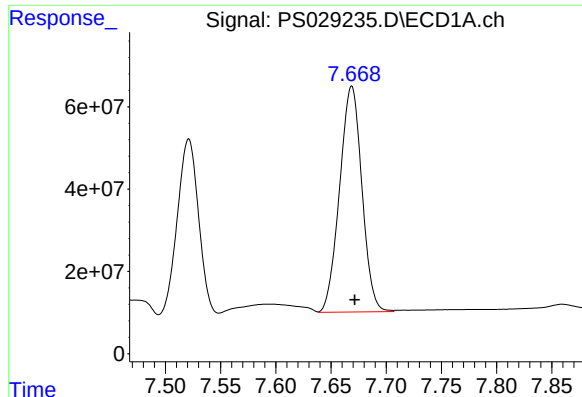
R.T.: 7.521 min
Delta R.T.: -0.002 min
Response: 561484942
Conc: 45.29 ug/ml

Time Response_ Signal: PS029235.D\ECD2B.ch



#6 MCP

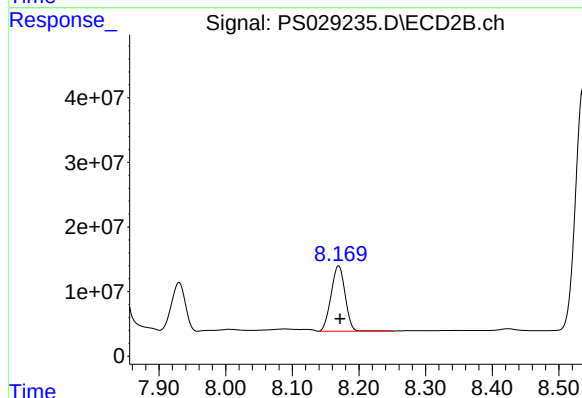
R.T.: 7.930 min
Delta R.T.: -0.002 min
Response: 108219654
Conc: 46.00 ug/ml



#7 MCPA

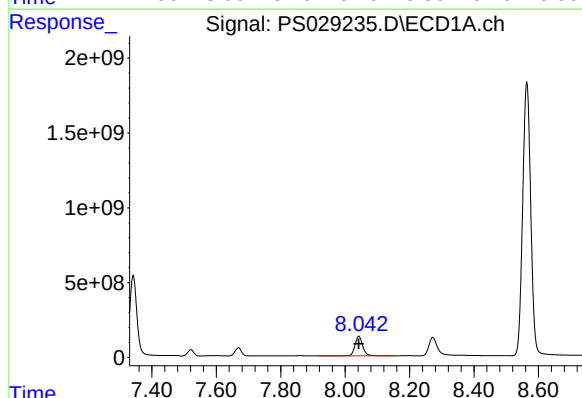
R.T.: 7.669 min
Delta R.T.: -0.003 min
Response: 771153325
Conc: 45.91 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



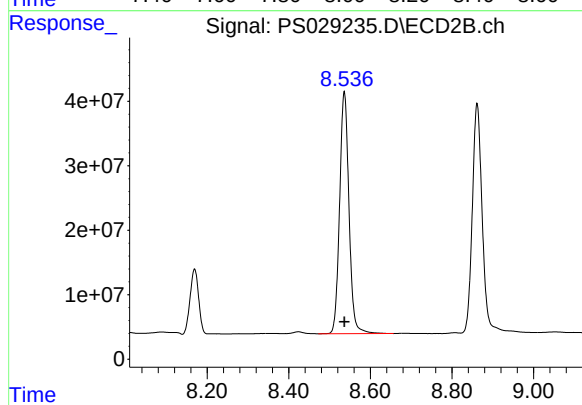
#7 MCPA

R.T.: 8.169 min
Delta R.T.: -0.002 min
Response: 147495437
Conc: 46.30 ug/ml



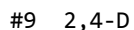
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 2175259216
Conc: 496.11 ng/ml

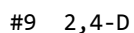


#8 DICHLORPROP

R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 597316012
Conc: 479.72 ng/ml



Instrument :
ECD_S
ClientSampleId :
HSTDICC500



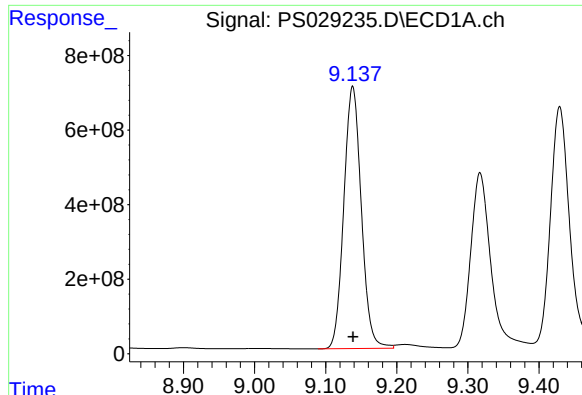
#10 Pentachlorophenol

#10 Pentachlorophenol

```

      R.T.:    9.378 min
Delta R.T.:    0.000 min
Response: 11155665141
Conc: 486.27 ng/ml

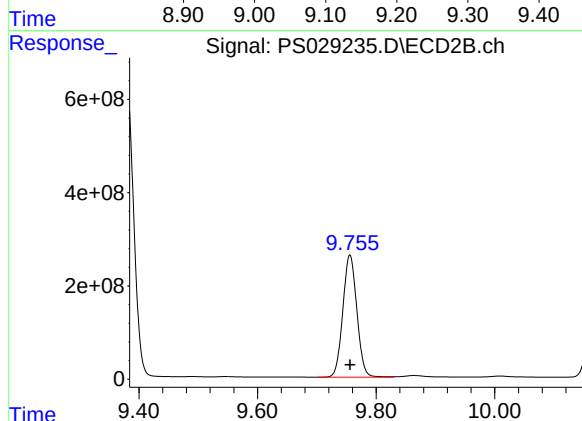
```

#11 2,4,5-TP (SILVEX)

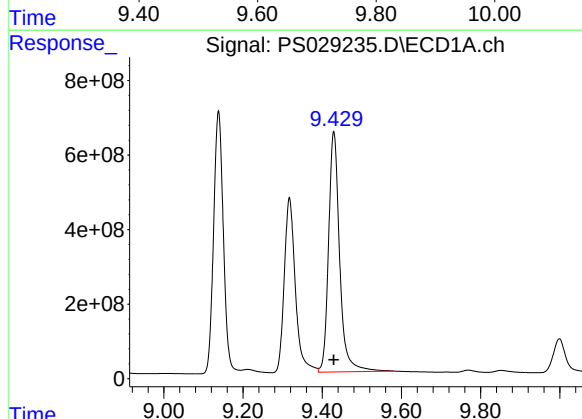
R.T.: 9.138 min
Delta R.T.: 0.000 min
Response: 12029867304
Conc: 502.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



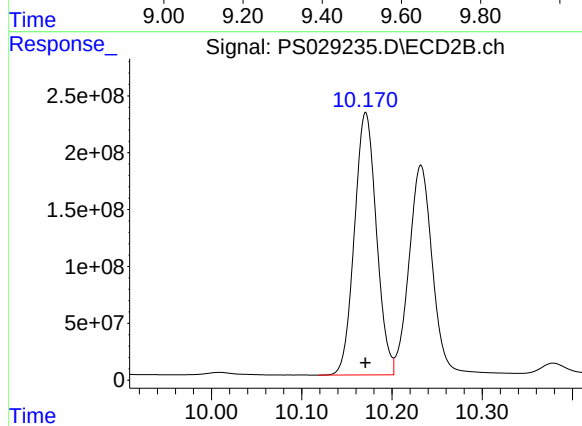
#11 2,4,5-TP (SILVEX)

R.T.: 9.756 min
Delta R.T.: 0.000 min
Response: 4309546815
Conc: 479.05 ng/ml



#12 2,4,5-T

R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 12477730869
Conc: 501.91 ng/ml



#12 2,4,5-T

R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 3902820050
Conc: 478.10 ng/ml

Response_

Signal: PS029235.D\ECD1A.ch

#13 2,4-DB

R.T.: 9.999 min

Delta R.T.: 0.000 min

Response: 1985577118

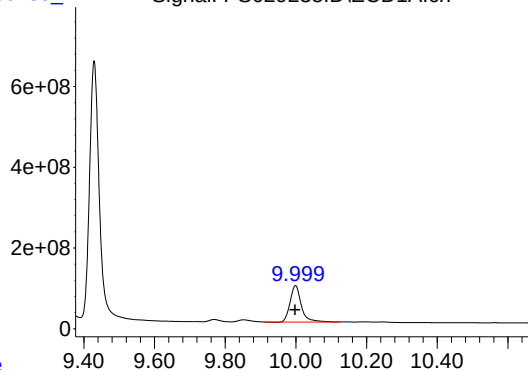
Conc: 485.23 ng/ml

Instrument :

ECD_S

ClientSampleId :

HSTDICC500



Time

Response

Signal: PS029235.D\ECD2B.ch

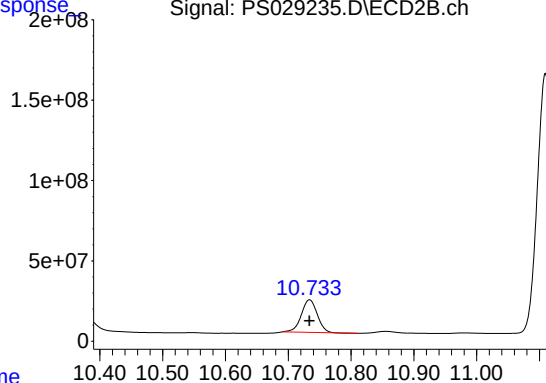
#13 2,4-DB

R.T.: 10.734 min

Delta R.T.: 0.000 min

Response: 358174611

Conc: 477.68 ng/ml



Time

Response_

Signal: PS029235.D\ECD1A.ch

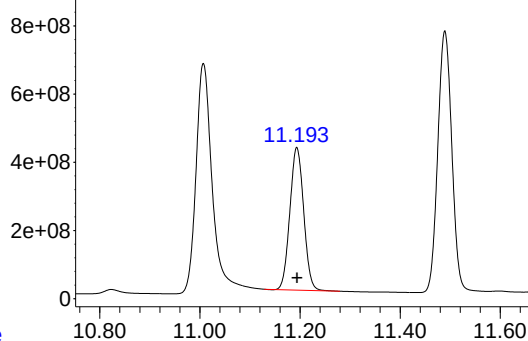
#14 DINOSEB

R.T.: 11.194 min

Delta R.T.: 0.000 min

Response: 8007840007

Conc: 495.82 ng/ml



Time

Response

Signal: PS029235.D\ECD2B.ch

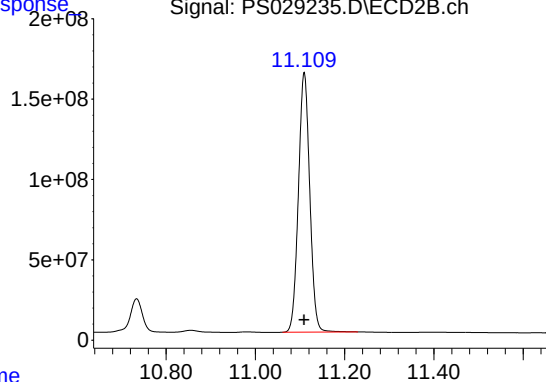
#14 DINOSEB

R.T.: 11.109 min

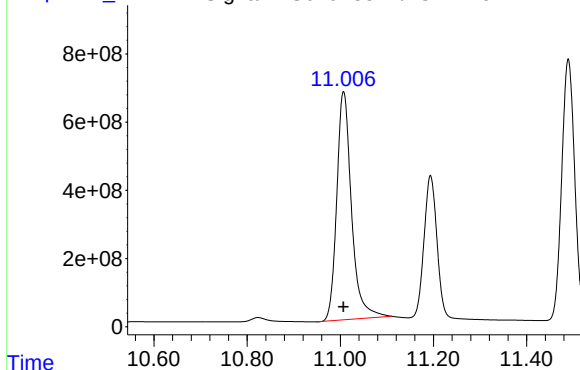
Delta R.T.: 0.000 min

Response: 2843163689

Conc: 477.11 ng/ml



Time



R.T.: 11.007 min
Delta R.T.: 0.000 min
Response: 14681568645
Conc: 483.89 ng/ml

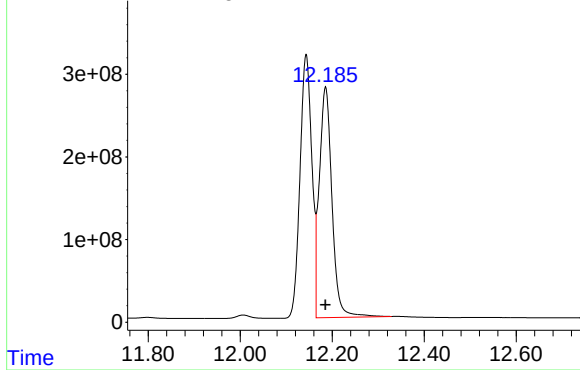
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_

Signal: PS029235.D\ECD2B.ch

#15 Picloram



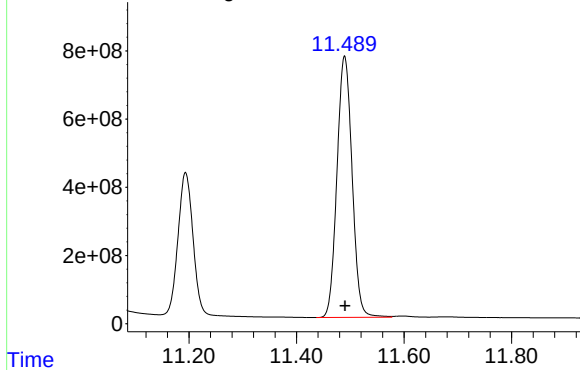
R.T.: 12.186 min
Delta R.T.: 0.000 min
Response: 5312220517
Conc: 452.54 ng/ml

Time

Response_

Signal: PS029235.D\ECD1A.ch

#16 DCPA



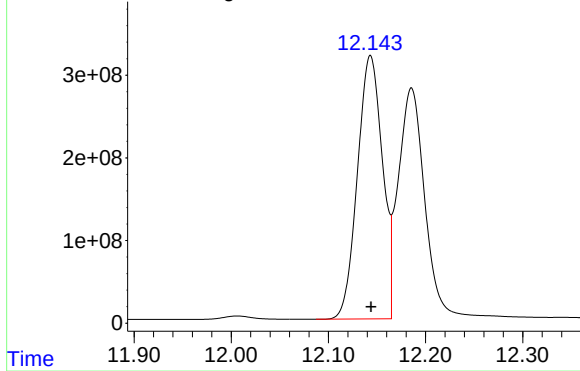
R.T.: 11.489 min
Delta R.T.: 0.000 min
Response: 14931643930
Conc: 511.21 ng/ml

Time

Response_

Signal: PS029235.D\ECD2B.ch

#16 DCPA



R.T.: 12.143 min
Delta R.T.: 0.000 min
Response: 5704810376
Conc: 482.08 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029236.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 20:44
 Operator : AR\AJ
 Sample : HSTDICC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 22 00:47:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.160	7.632	2964.9E6	688.5E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.600	2.651	3641.1E6	1402.7E6	682.500	682.500
2) T	3,5-DICHL...	6.341	6.604	3960.8E6	966.9E6	697.500	697.500
3) T	4-Nitroph...	6.959	7.162	1583.9E6	531.3E6	682.500	682.500
5) T	DICAMBA	7.343	7.826	11950.0E6	3613.1E6	705.000	705.000
6) T	MCPD	7.524	7.932	873.9E6	165.9E6	70.500	70.500
7) T	MCPA	7.671	8.172	1171.5E6	222.2E6	69.750	69.750
8) T	DICHLORPROP	8.042	8.536	3091.2E6	877.8E6	705.000	705.000
9) T	2,4-D	8.271	8.861	3226.3E6	874.2E6	705.000	705.000
10) T	Pentachlo...	8.567	9.379	42277.5E6	16345.7E6	712.500	712.500
11) T	2,4,5-TP ...	9.138	9.756	17064.4E6	6409.7E6	712.500	712.500
12) T	2,4,5-T	9.429	10.170	17713.0E6	5816.3E6	712.500	712.500
13) T	2,4-DB	9.998	10.734	2915.6E6	534.3E6	712.500	712.500
14) T	DINOSEB	11.194	11.109	11386.3E6	4201.2E6	705.000	705.000
15) T	Picloram	11.007	12.185	21617.9E6	8363.8E6	712.500	712.500
16) T	DCPA	11.490	12.144	21030.2E6	8520.2E6	720.000	720.000

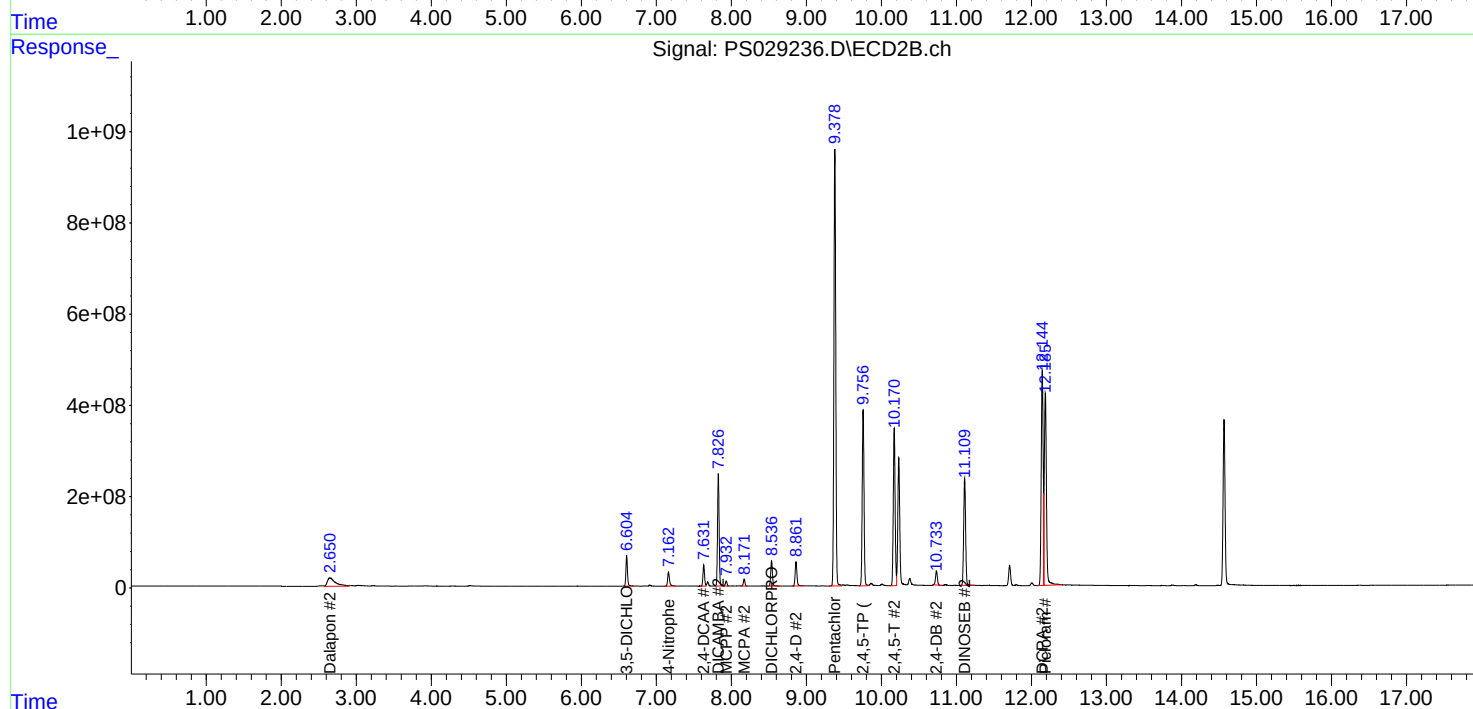
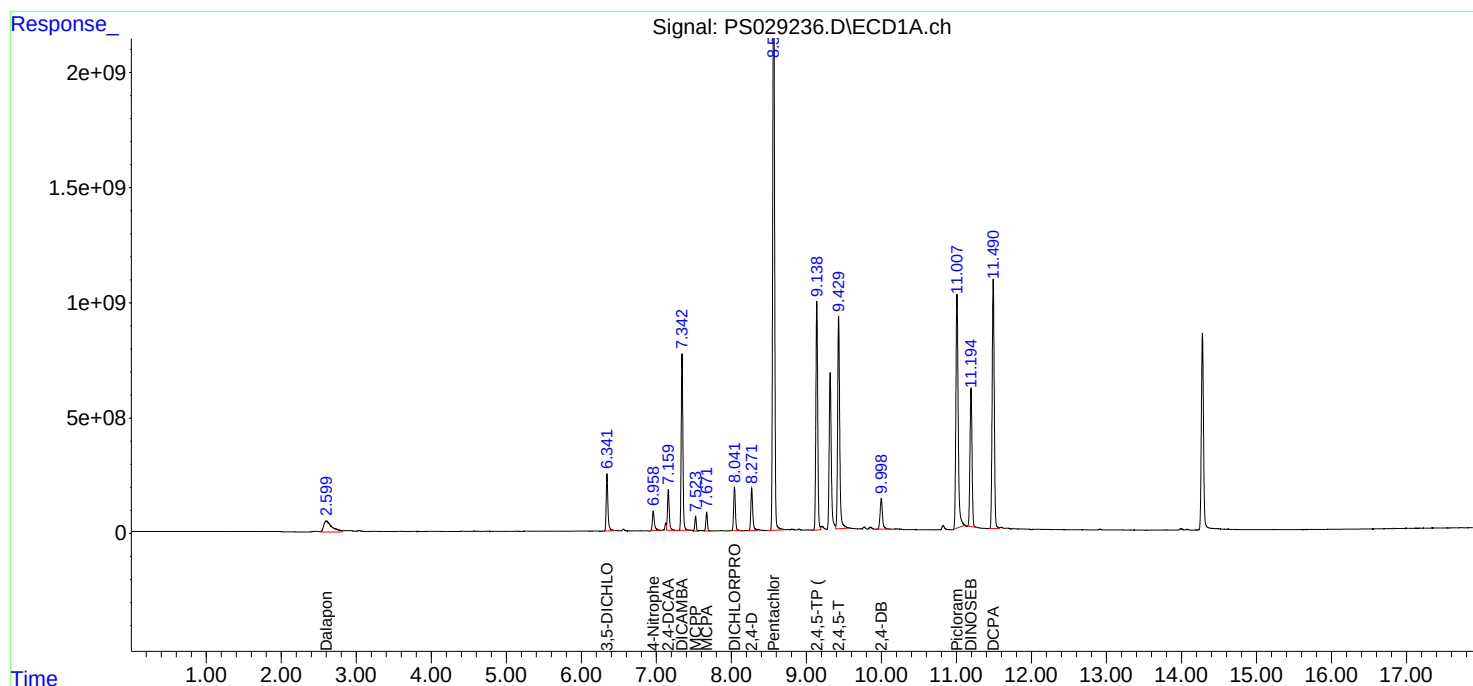
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029236.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 20:44
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

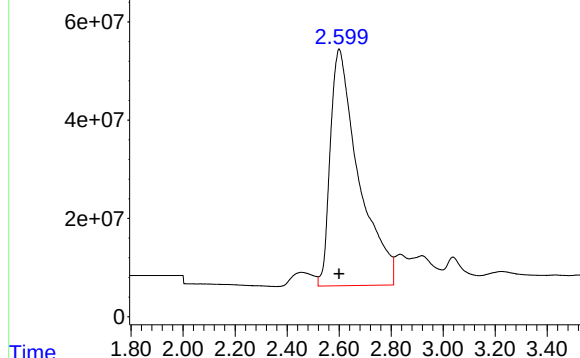
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:47:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS029236.D\ECD1A.ch

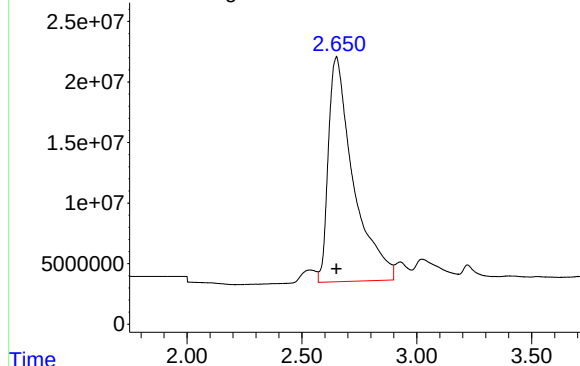


#1 Dalapon

R.T.: 2.600 min
Delta R.T.: 0.000 min
Response: 3641117262
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

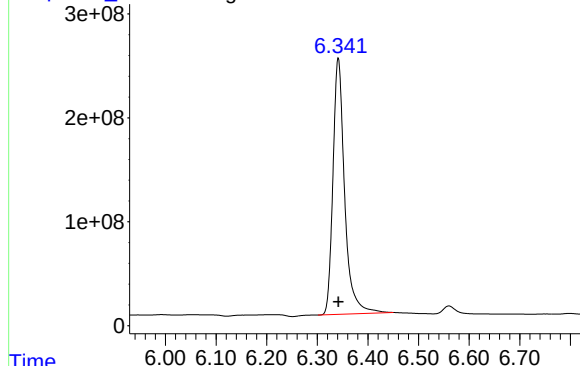
Response_ Signal: PS029236.D\ECD2B.ch



#1 Dalapon

R.T.: 2.651 min
Delta R.T.: 0.000 min
Response: 1402735690
Conc: 682.50 ng/ml

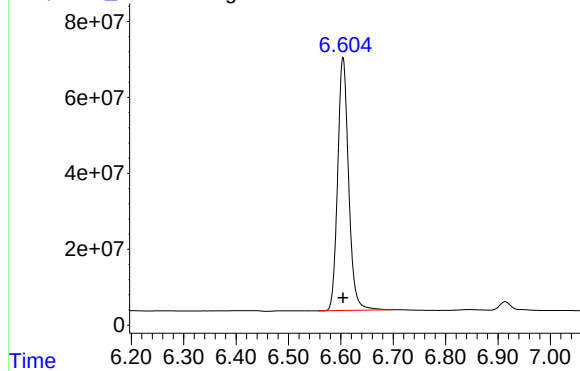
Response_ Signal: PS029236.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

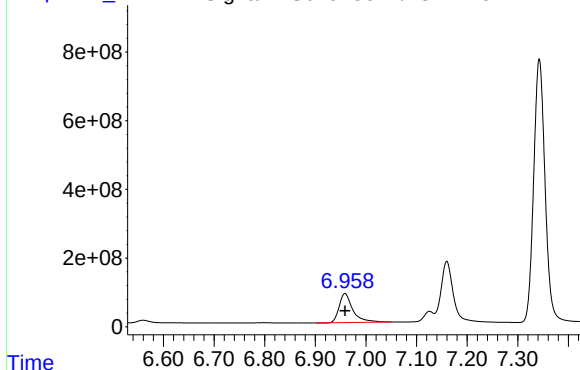
R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 3960801041
Conc: 697.50 ng/ml

Response_ Signal: PS029236.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 966868794
Conc: 697.50 ng/ml



R.T.: 6.959 min
Delta R.T.: 0.000 min
Response: 1583871696
Conc: 682.50 ng/ml

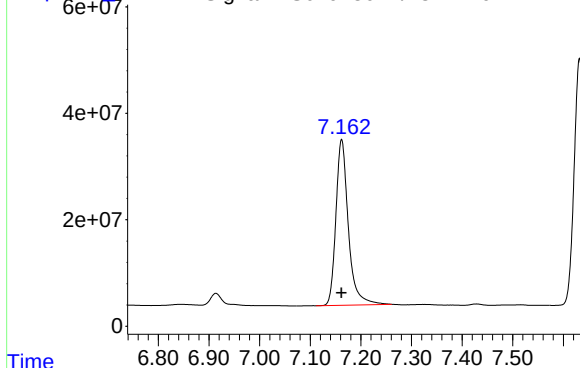
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response

Signal: PS029236.D\ECD2B.ch

#3 4-Nitrophenol



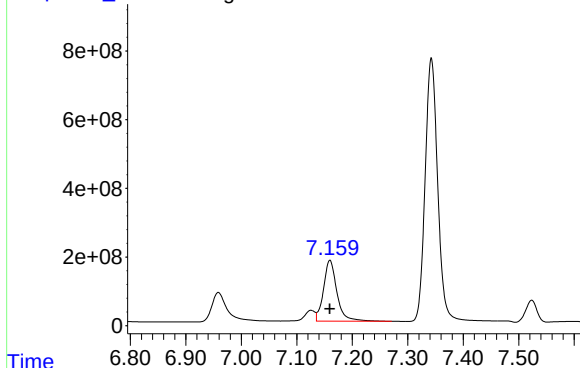
R.T.: 7.162 min
Delta R.T.: 0.000 min
Response: 531299680
Conc: 682.50 ng/ml

Time

Response_

Signal: PS029236.D\ECD1A.ch

#4 2,4-DCAA



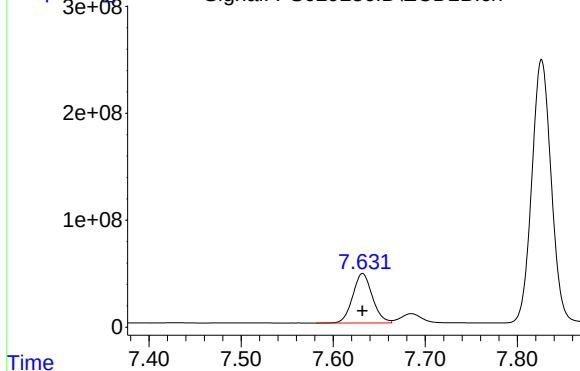
R.T.: 7.160 min
Delta R.T.: 0.000 min
Response: 2964926429
Conc: 750.00 ng/ml

Time

Response

Signal: PS029236.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.632 min
Delta R.T.: 0.000 min
Response: 688456770
Conc: 750.00 ng/ml

Time

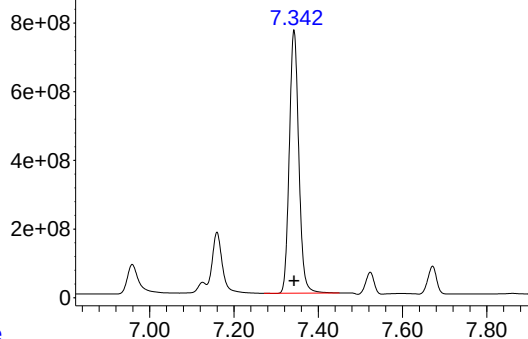
Response_

Signal: PS029236.D\ECD1A.ch

#5 DICAMBA

R.T.: 7.343 min
Delta R.T.: 0.000 min
Response: 11950038937
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



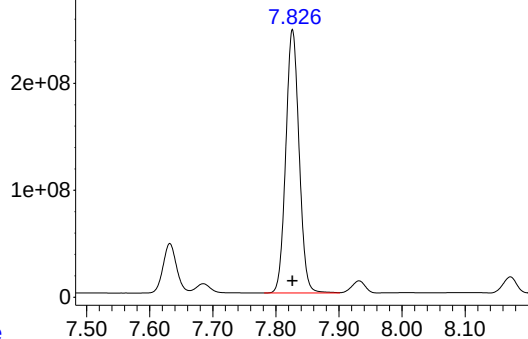
Time

Response

Signal: PS029236.D\ECD2B.ch

#5 DICAMBA

R.T.: 7.826 min
Delta R.T.: 0.000 min
Response: 3613110016
Conc: 705.00 ng/ml



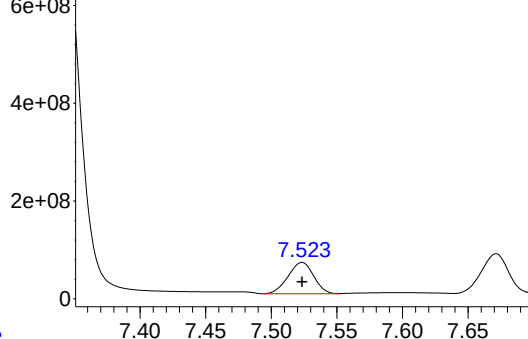
Time

Response

Signal: PS029236.D\ECD1A.ch

#6 MCP

R.T.: 7.524 min
Delta R.T.: 0.000 min
Response: 873935341
Conc: 70.50 ug/ml



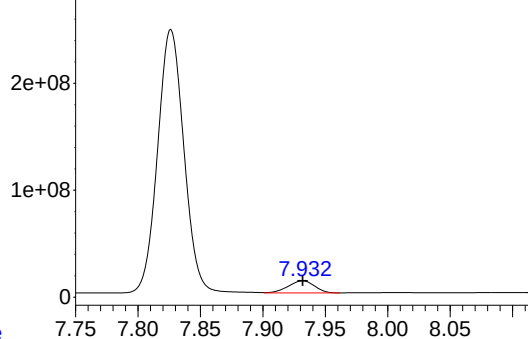
Time

Response

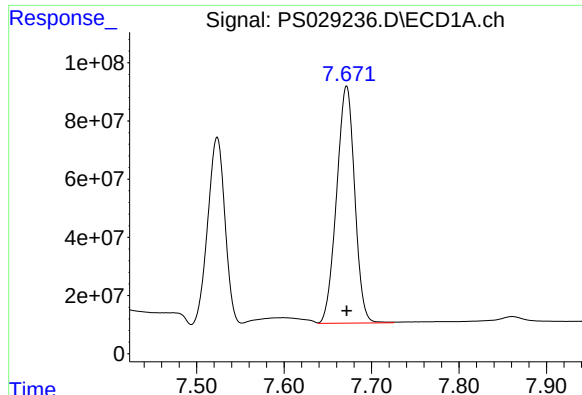
Signal: PS029236.D\ECD2B.ch

#6 MCP

R.T.: 7.932 min
Delta R.T.: 0.000 min
Response: 165863639
Conc: 70.50 ug/ml



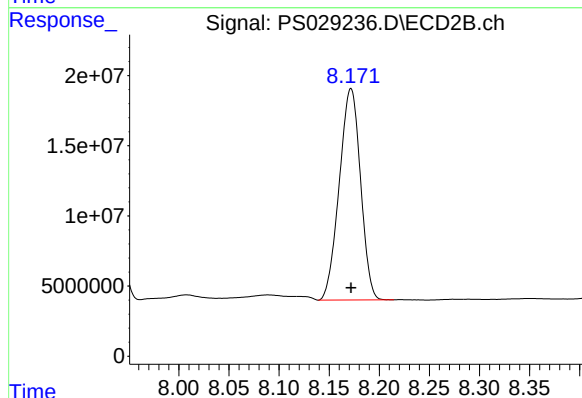
Time



#7 MCPA

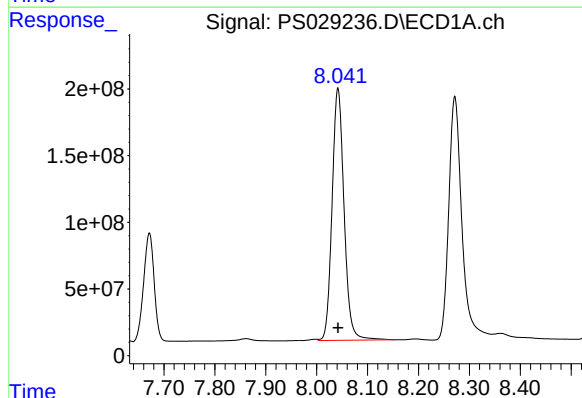
R.T.: 7.671 min
Delta R.T.: 0.000 min
Response: 1171508246
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



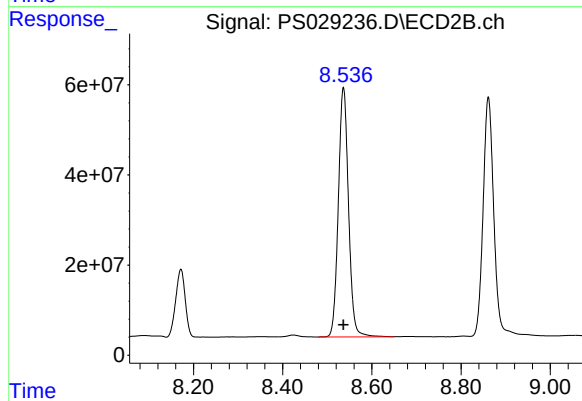
#7 MCPA

R.T.: 8.172 min
Delta R.T.: 0.000 min
Response: 222192083
Conc: 69.75 ug/ml



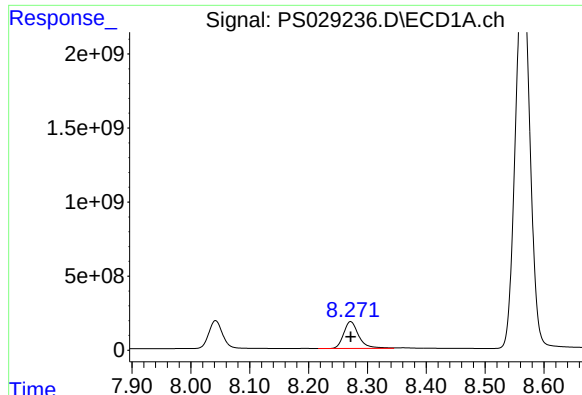
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 3091164412
Conc: 705.00 ng/ml



#8 DICHLORPROP

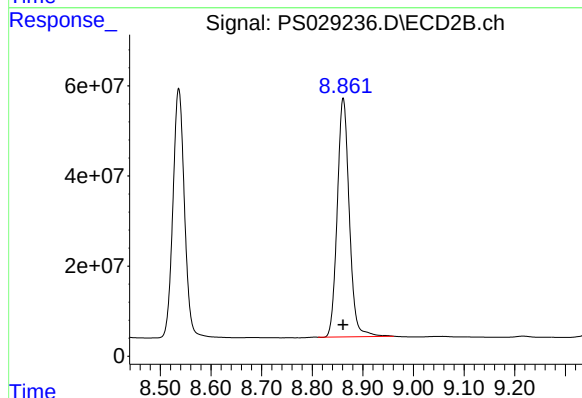
R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 877822430
Conc: 705.00 ng/ml



#9 2,4-D

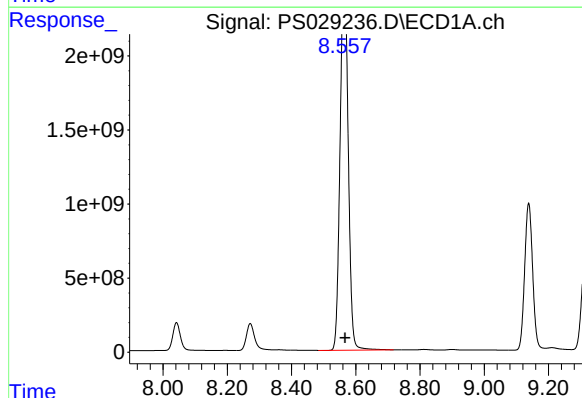
R.T.: 8.271 min
Delta R.T.: 0.000 min
Response: 3226291508
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



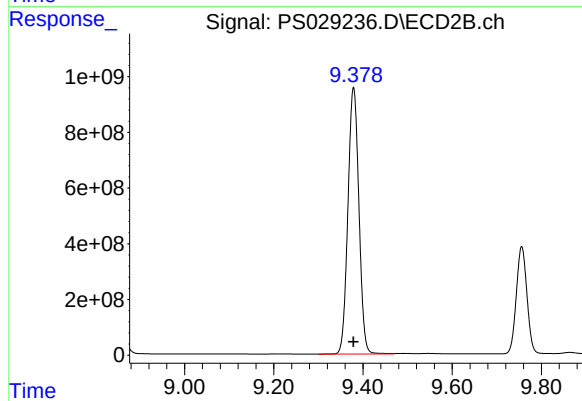
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 874172728
Conc: 705.00 ng/ml



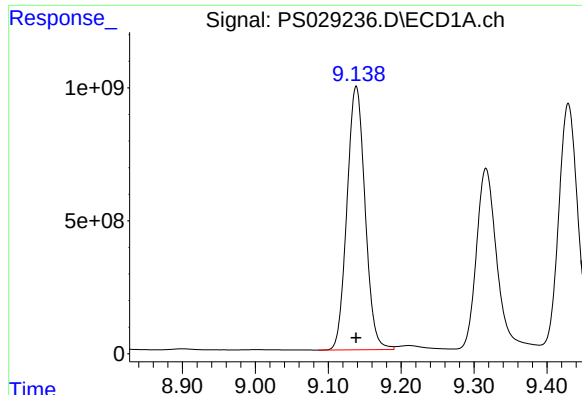
#10 Pentachlorophenol

R.T.: 8.567 min
Delta R.T.: 0.000 min
Response: 42277474725
Conc: 712.50 ng/ml



#10 Pentachlorophenol

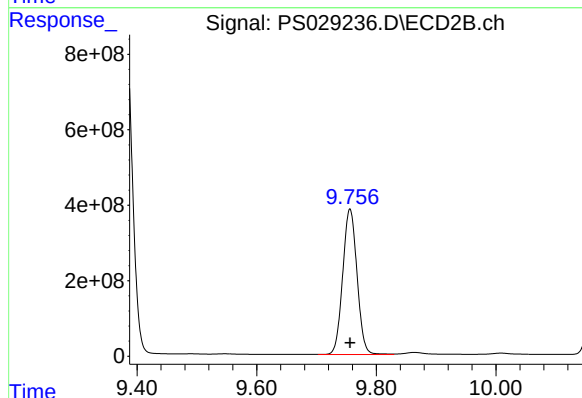
R.T.: 9.379 min
Delta R.T.: 0.000 min
Response: 16345726949
Conc: 712.50 ng/ml



#11 2,4,5-TP (SILVEX)

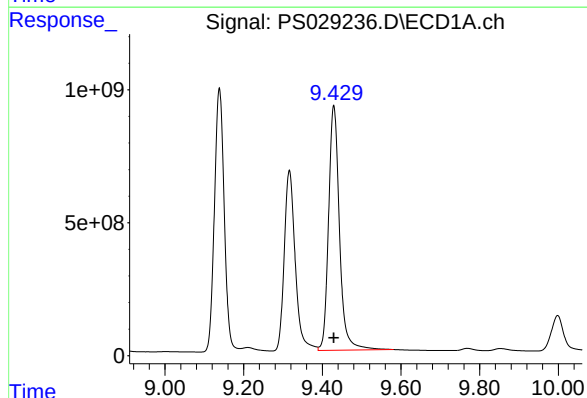
R.T.: 9.138 min
Delta R.T.: 0.000 min
Response: 17064364398
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



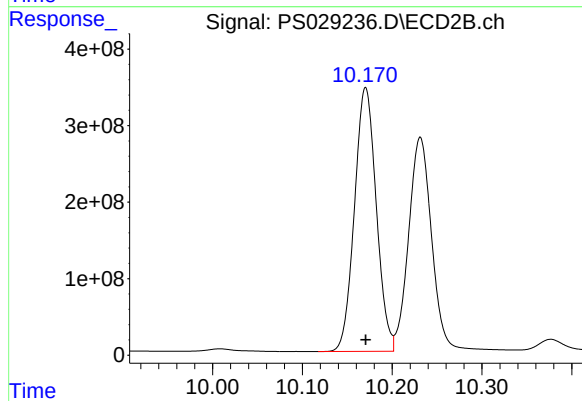
#11 2,4,5-TP (SILVEX)

R.T.: 9.756 min
Delta R.T.: 0.000 min
Response: 6409684995
Conc: 712.50 ng/ml



#12 2,4,5-T

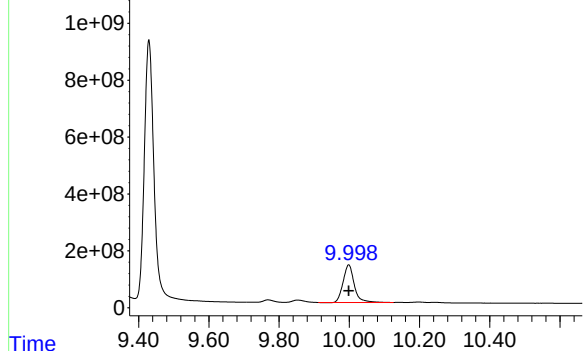
R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 17712956715
Conc: 712.50 ng/ml



#12 2,4,5-T

R.T.: 10.170 min
Delta R.T.: 0.000 min
Response: 5816255986
Conc: 712.50 ng/ml

Response_ Signal: PS029236.D\ECD1A.ch

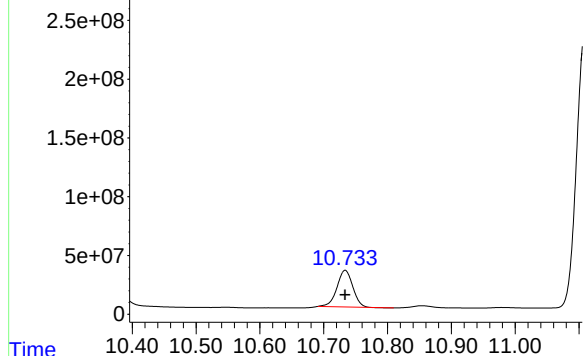


#13 2,4-DB

R.T.: 9.998 min
Delta R.T.: 0.000 min
Response: 2915603199
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

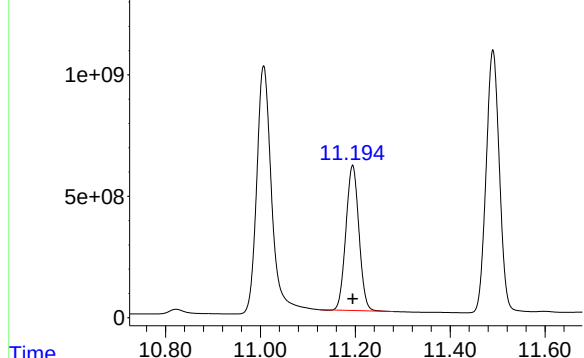
Response_ Signal: PS029236.D\ECD2B.ch



#13 2,4-DB

R.T.: 10.734 min
Delta R.T.: 0.000 min
Response: 534251119
Conc: 712.50 ng/ml

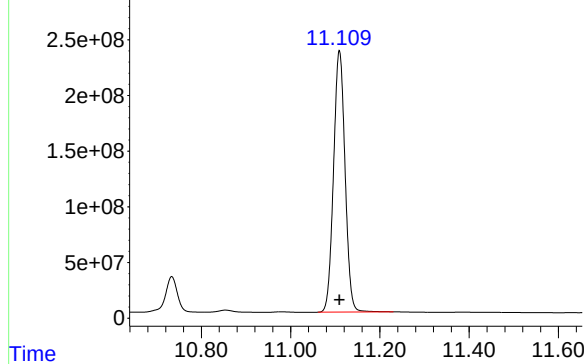
Response_ Signal: PS029236.D\ECD1A.ch



#14 DINOSEB

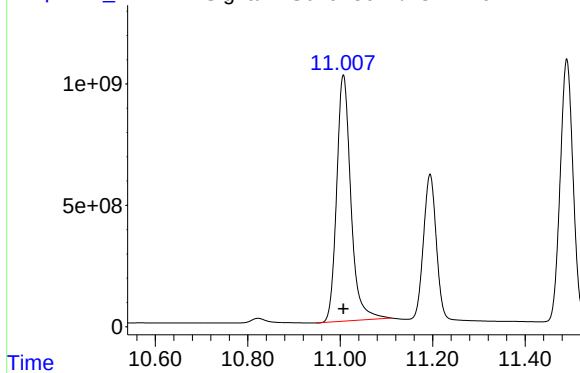
R.T.: 11.194 min
Delta R.T.: 0.000 min
Response: 11386311715
Conc: 705.00 ng/ml

Response_ Signal: PS029236.D\ECD2B.ch



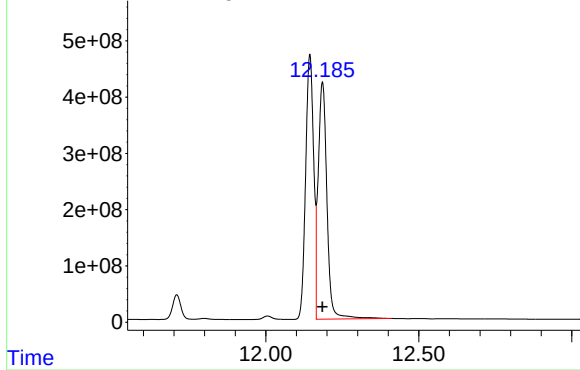
#14 DINOSEB

R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 4201208657
Conc: 705.00 ng/ml

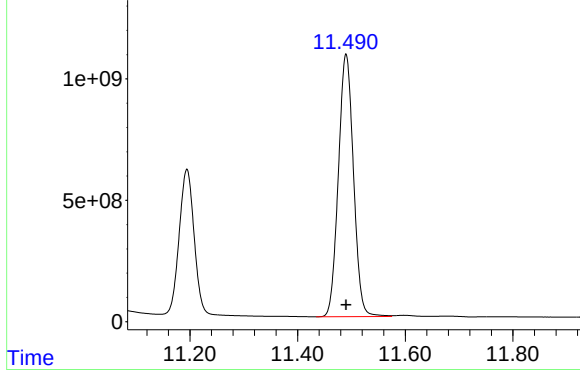


R.T.: 11.007 min
Delta R.T.: 0.000 min
Response: 21617917308
Conc: 712.50 ng/ml

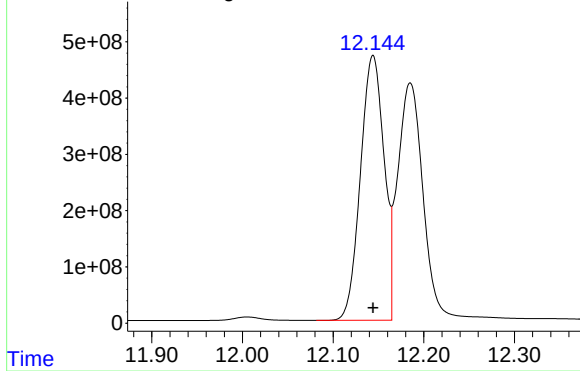
Instrument :
ECD_S
ClientSampleId :
HSTDICC750



R.T.: 12.185 min
Delta R.T.: 0.000 min
Response: 8363826327
Conc: 712.50 ng/ml



R.T.: 11.490 min
Delta R.T.: 0.000 min
Response: 21030169639
Conc: 720.00 ng/ml



R.T.: 12.144 min
Delta R.T.: 0.000 min
Response: 8520243713
Conc: 720.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029237.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 21:08
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 22 00:47:44 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.160	7.632	3904.4E6	923.9E6	987.641	1006.459
Target Compounds							
1) T	Dalapon	2.602	2.649	4808.4E6	1862.5E6	901.290	906.192
2) T	3,5-DICHL...	6.341	6.604	5190.9E6	1296.8E6	914.113	935.505
3) T	4-Nitroph...	6.958	7.162	2125.8E6	711.9E6	916.034	914.527
5) T	DICAMBA	7.343	7.827	15712.3E6	4925.7E6	926.955	961.111
6) T	MCPD	7.525	7.934	1212.8E6	229.1E6	97.837	97.378
7) T	MCPA	7.674	8.174	1599.1E6	305.2E6	95.210	95.798
8) T	DICHLORPROP	8.042	8.536	4060.0E6	1174.5E6	925.954	943.257
9) T	2,4-D	8.271	8.861	4228.8E6	1179.7E6	924.070	951.397
10) T	Pentachlo...	8.569	9.379	47978.9E6	21616.5E6	808.586	942.252
11) T	2,4,5-TP ...	9.138	9.756	22191.6E6	8560.6E6	926.582	951.592
12) T	2,4,5-T	9.429	10.171	22908.3E6	7785.2E6	921.482	953.703
13) T	2,4-DB	9.998	10.734	3903.0E6	722.5E6	953.785	963.503
14) T	DINOSEB	11.194	11.109	14868.4E6	5641.4E6	920.597	946.685
15) T	Picloram	11.007	12.185	28555.1E6	11497.8E6	941.140	979.475
16) T	DCPA	11.490	12.143	27030.8E6	11366.5E6	925.442	960.520

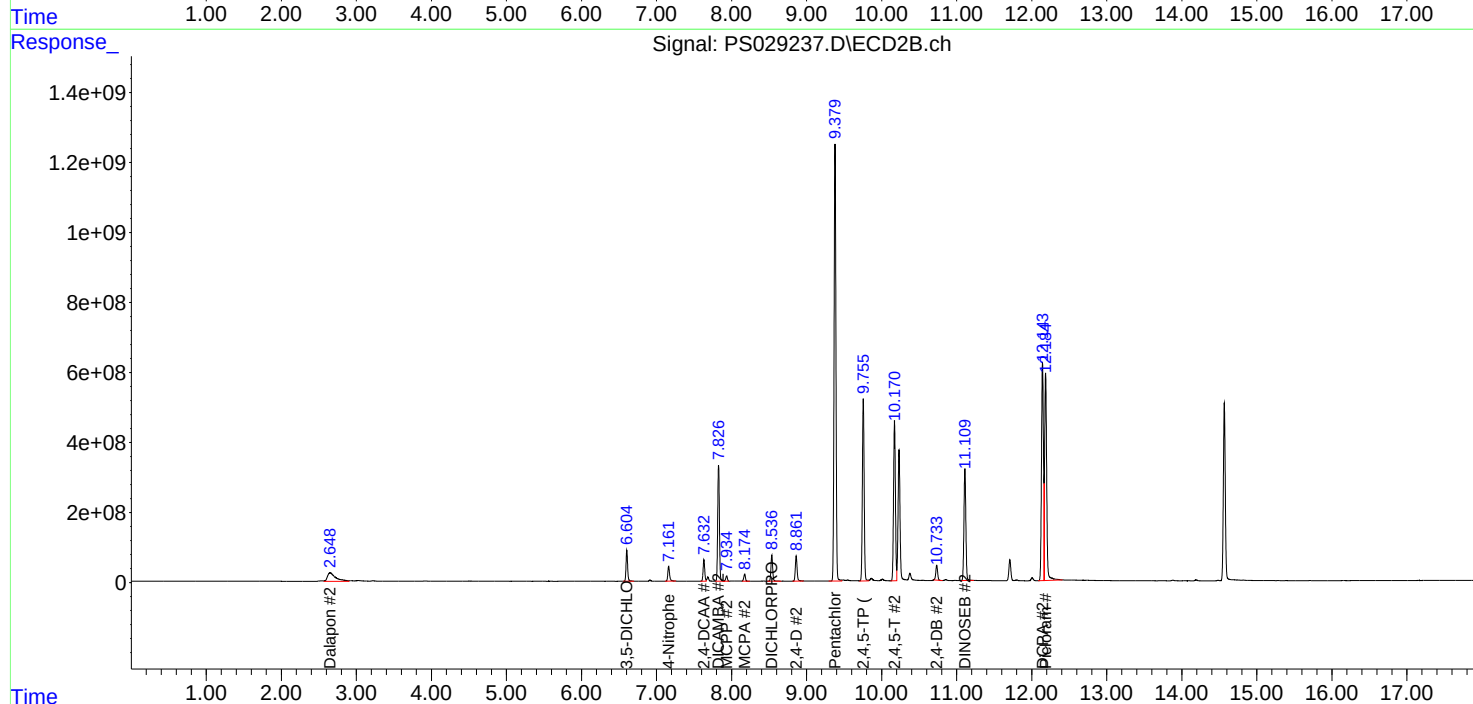
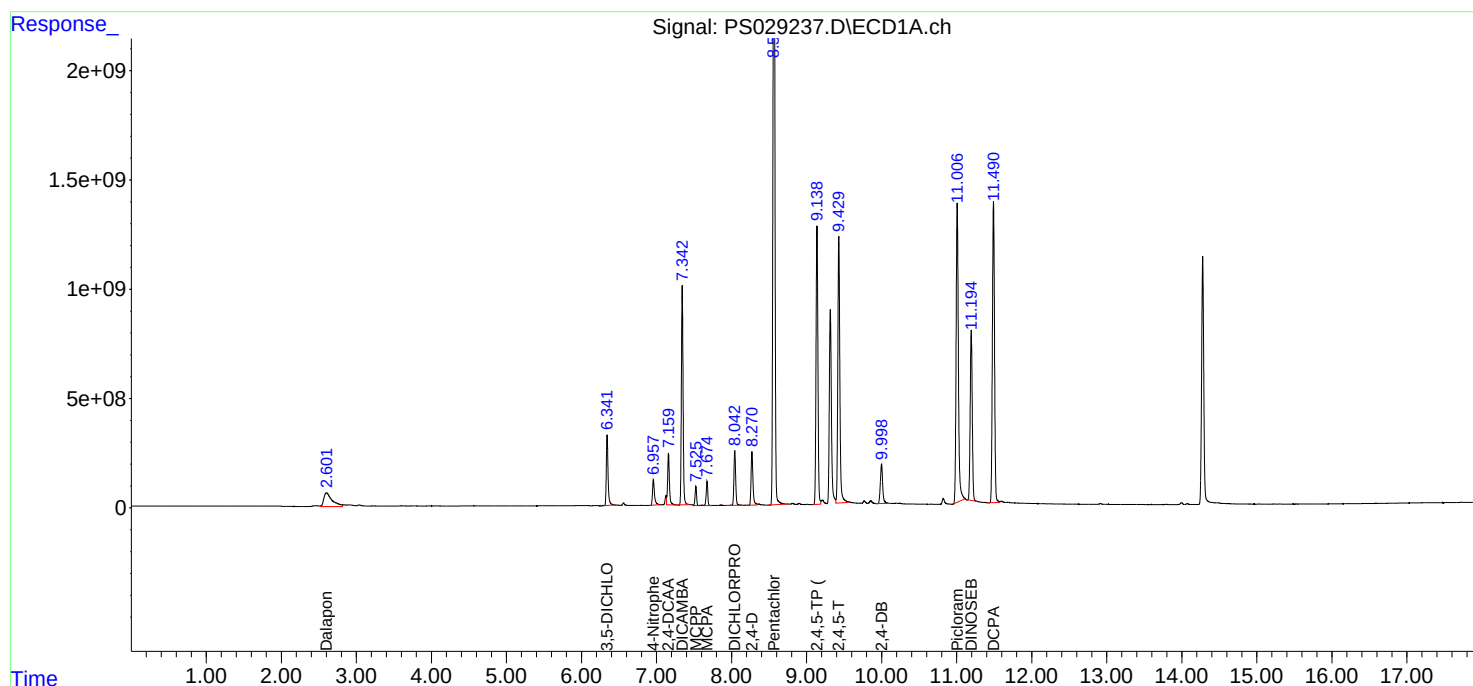
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

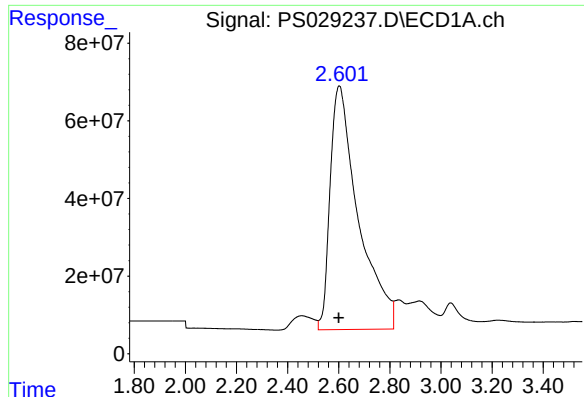
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029237.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 21:08
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:47:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

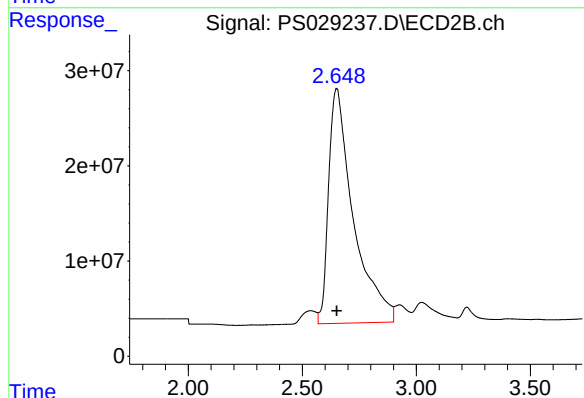




#1 Dalapon

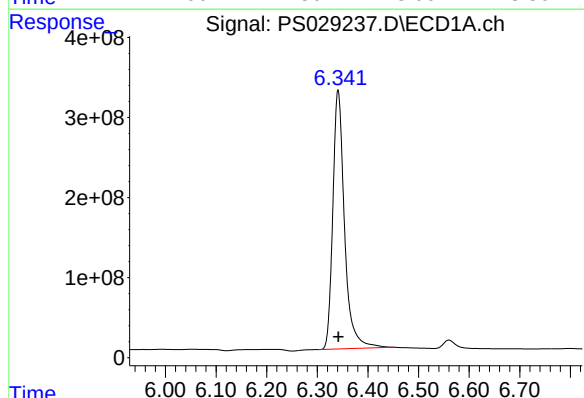
R.T.: 2.602 min
Delta R.T.: 0.002 min
Response: 4808356362
Conc: 901.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



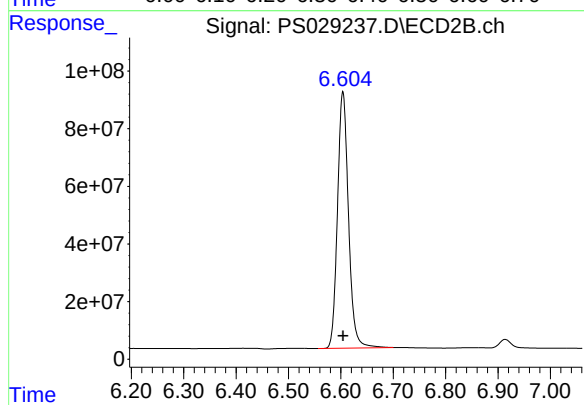
#1 Dalapon

R.T.: 2.649 min
Delta R.T.: -0.002 min
Response: 1862488178
Conc: 906.19 ng/ml



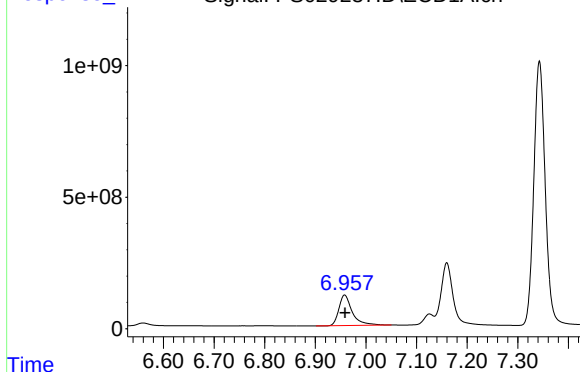
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 5190854031
Conc: 914.11 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 1296789679
Conc: 935.51 ng/ml



R.T.: 6.958 min
Delta R.T.: 0.000 min
Response: 2125831668
Conc: 916.03 ng/ml

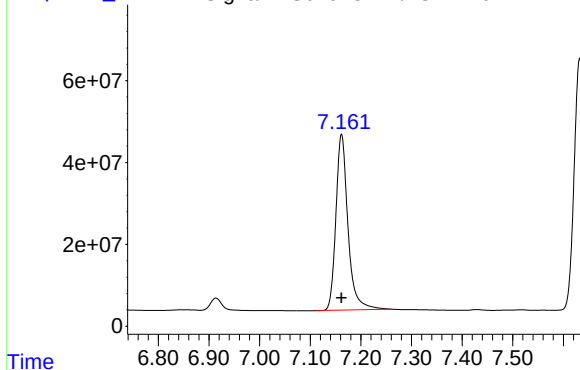
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Time

Response_

Signal: PS029237.D\ECD2B.ch

#3 4-Nitrophenol



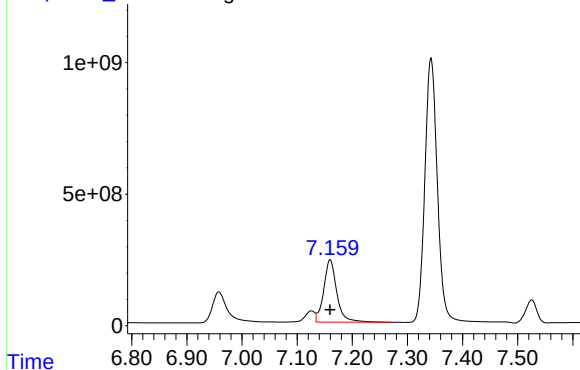
R.T.: 7.162 min
Delta R.T.: 0.000 min
Response: 711923525
Conc: 914.53 ng/ml

Time

Response_

Signal: PS029237.D\ECD1A.ch

#4 2,4-DCAA



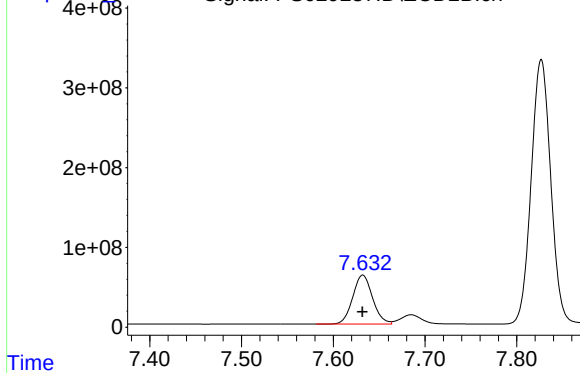
R.T.: 7.160 min
Delta R.T.: 0.000 min
Response: 3904375525
Conc: 987.64 ng/ml

Time

Response_

Signal: PS029237.D\ECD2B.ch

#4 2,4-DCAA



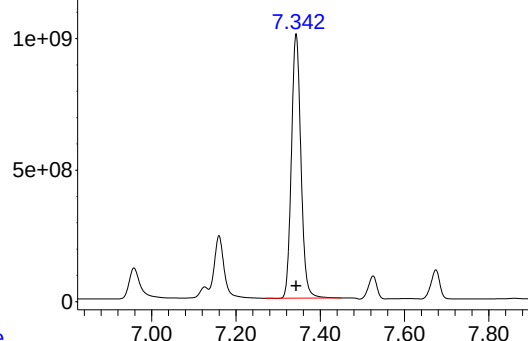
R.T.: 7.632 min
Delta R.T.: 0.000 min
Response: 923871054
Conc: 1006.46 ng/ml

Time

Response_

Signal: PS029237.D\ECD1A.ch

#5 DICAMBA



R.T.: 7.343 min
Delta R.T.: 0.000 min
Response: 15712263512
Conc: 926.95 ng/ml

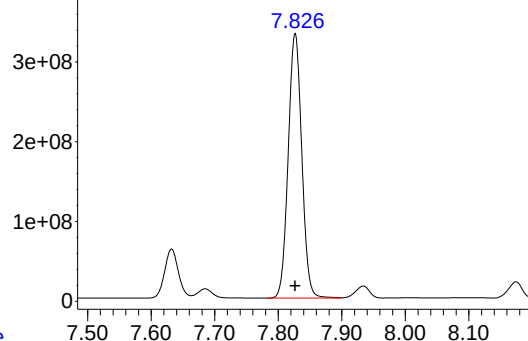
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Time

Response

Signal: PS029237.D\ECD2B.ch

#5 DICAMBA



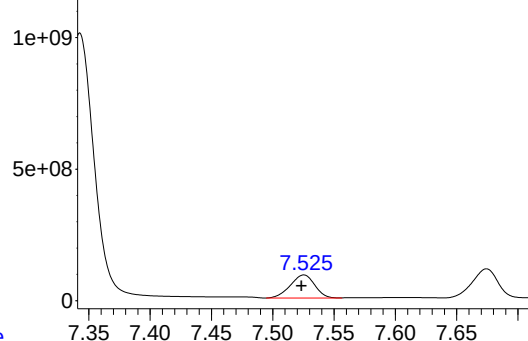
R.T.: 7.827 min
Delta R.T.: 0.000 min
Response: 4925671975
Conc: 961.11 ng/ml

Time

Response_

Signal: PS029237.D\ECD1A.ch

#6 MCP



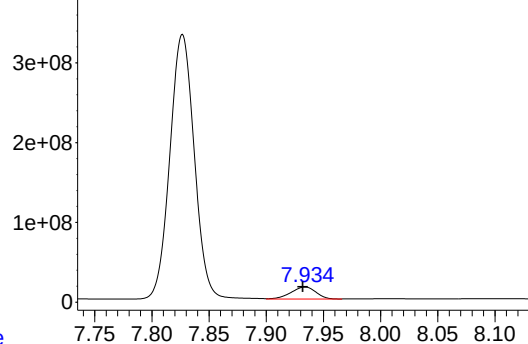
R.T.: 7.525 min
Delta R.T.: 0.002 min
Response: 1212812746
Conc: 97.84 ug/ml

Time

Response

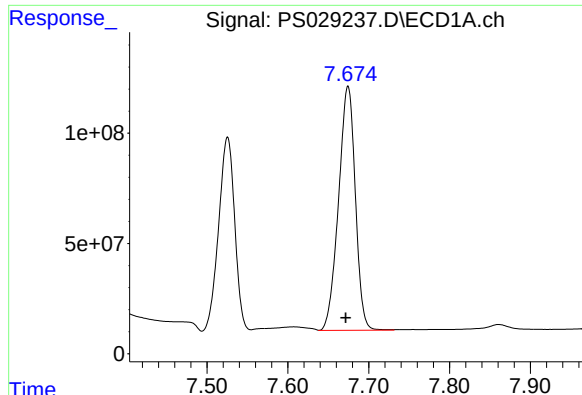
Signal: PS029237.D\ECD2B.ch

#6 MCP



R.T.: 7.934 min
Delta R.T.: 0.002 min
Response: 229098431
Conc: 97.38 ug/ml

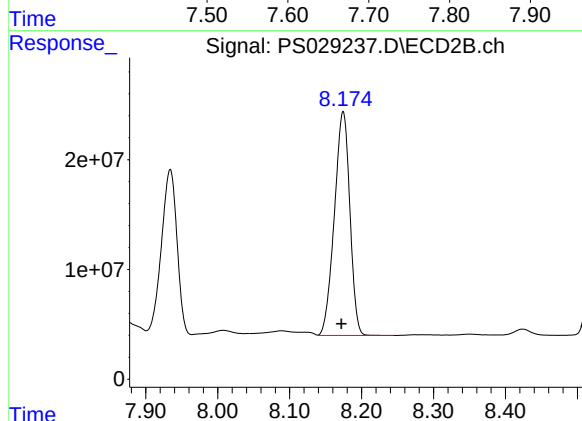
Time



#7 MCPA

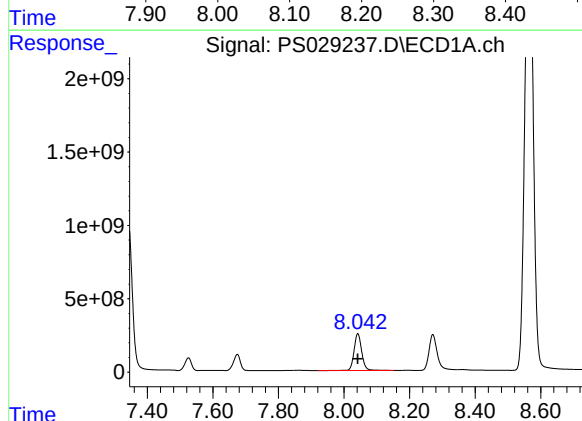
R.T.: 7.674 min
Delta R.T.: 0.003 min
Response: 1599125477
Conc: 95.21 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



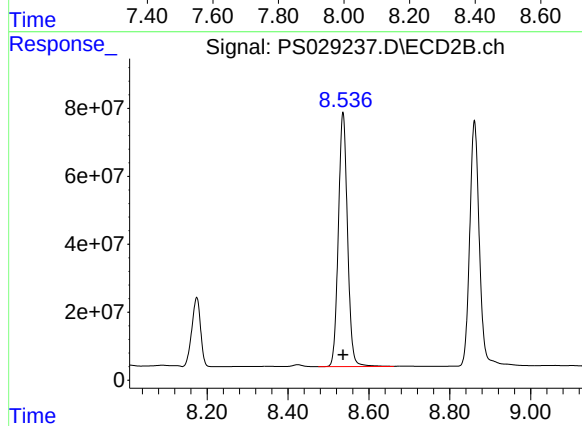
#7 MCPA

R.T.: 8.174 min
Delta R.T.: 0.003 min
Response: 305170612
Conc: 95.80 ug/ml



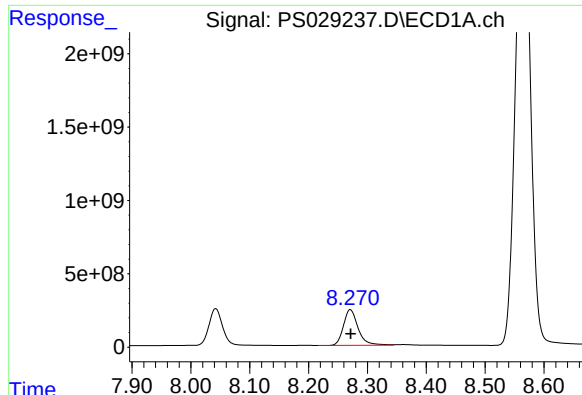
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 4059965411
Conc: 925.95 ng/ml



#8 DICHLORPROP

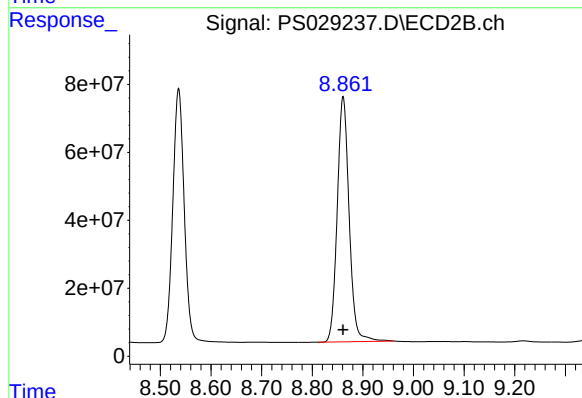
R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 1174485641
Conc: 943.26 ng/ml



#9 2,4-D

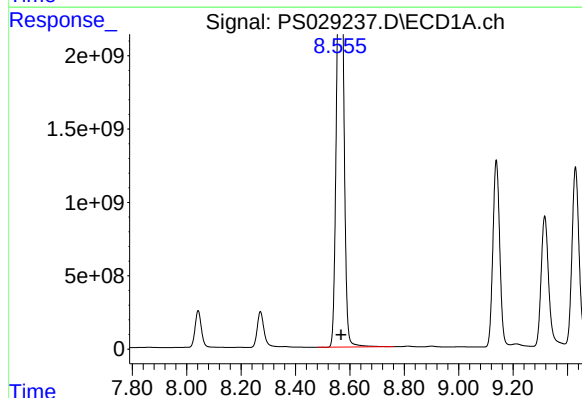
R.T.: 8.271 min
Delta R.T.: 0.000 min
Response: 4228823353
Conc: 924.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



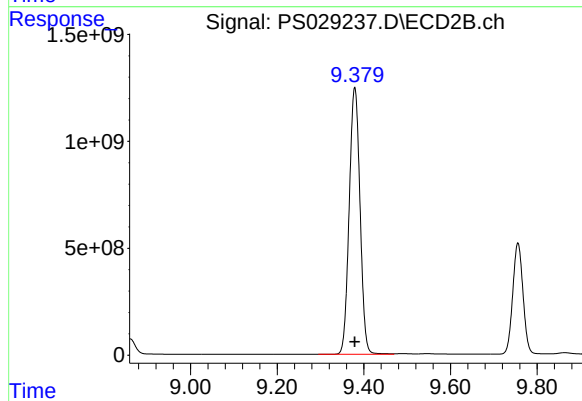
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 1179694891
Conc: 951.40 ng/ml



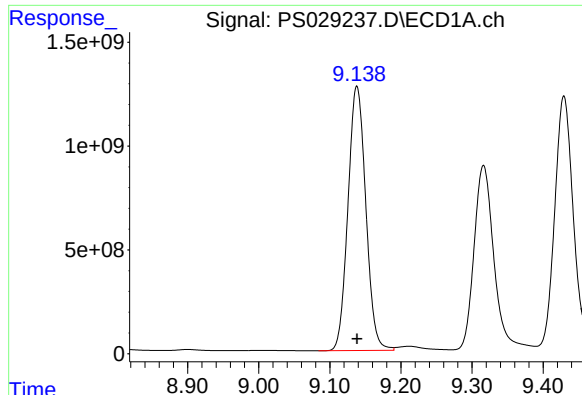
#10 Pentachlorophenol

R.T.: 8.569 min
Delta R.T.: 0.002 min
Response: 47978884087
Conc: 808.59 ng/ml



#10 Pentachlorophenol

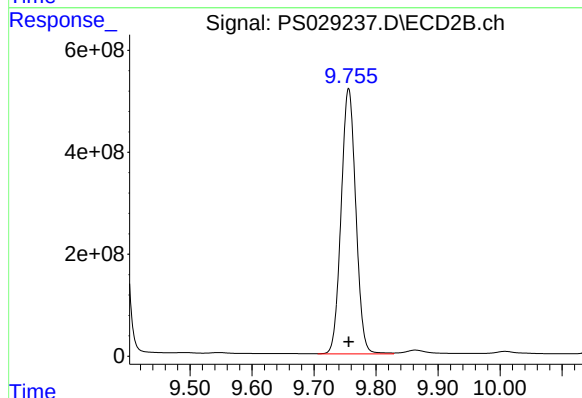
R.T.: 9.379 min
Delta R.T.: 0.000 min
Response: 21616548472
Conc: 942.25 ng/ml



#11 2,4,5-TP (SILVEX)

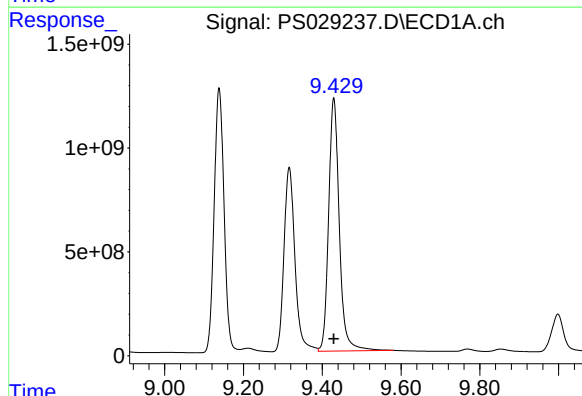
R.T.: 9.138 min
Delta R.T.: 0.000 min
Response: 22191616916
Conc: 926.58 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



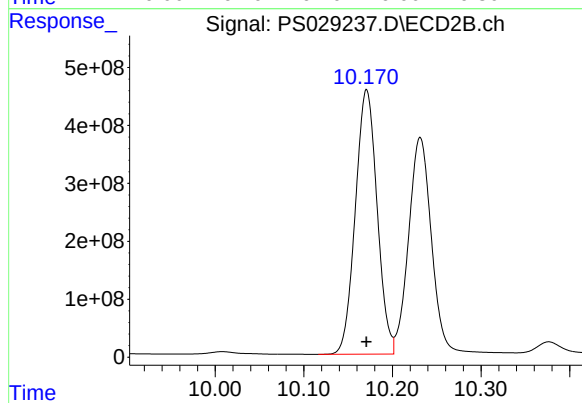
#11 2,4,5-TP (SILVEX)

R.T.: 9.756 min
Delta R.T.: 0.000 min
Response: 8560567188
Conc: 951.59 ng/ml



#12 2,4,5-T

R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 22908298887
Conc: 921.48 ng/ml



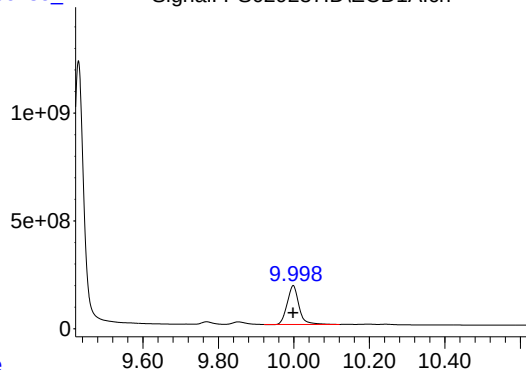
#12 2,4,5-T

R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 7785232535
Conc: 953.70 ng/ml

Response_

Signal: PS029237.D\ECD1A.ch

#13 2,4-DB



R.T.: 9.998 min
Delta R.T.: 0.000 min
Response: 3902961022
Conc: 953.79 ng/ml

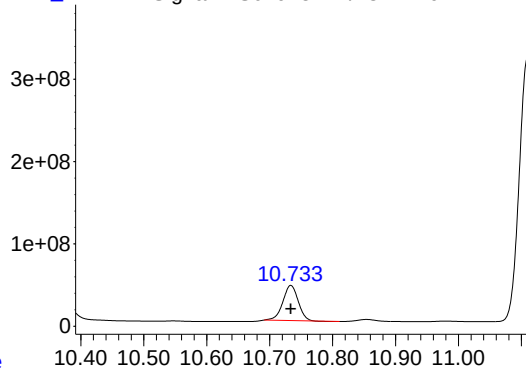
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Time

Response_

Signal: PS029237.D\ECD2B.ch

#13 2,4-DB



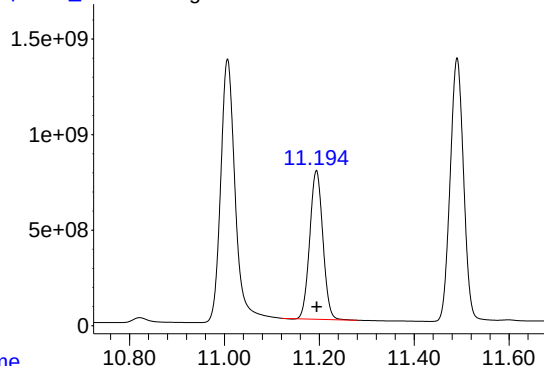
R.T.: 10.734 min
Delta R.T.: 0.000 min
Response: 722459649
Conc: 963.50 ng/ml

Time

Response_

Signal: PS029237.D\ECD1A.ch

#14 DINOSEB



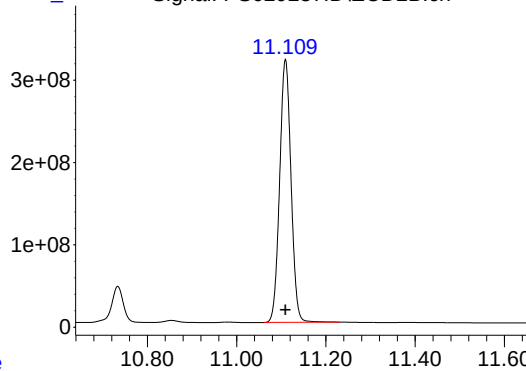
R.T.: 11.194 min
Delta R.T.: 0.000 min
Response: 14868367443
Conc: 920.60 ng/ml

Time

Response_

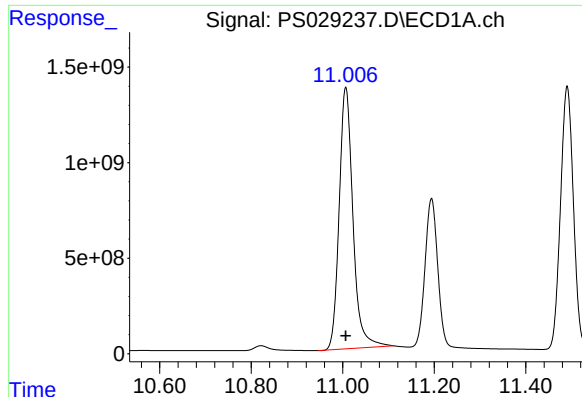
Signal: PS029237.D\ECD2B.ch

#14 DINOSEB



R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 5641449993
Conc: 946.69 ng/ml

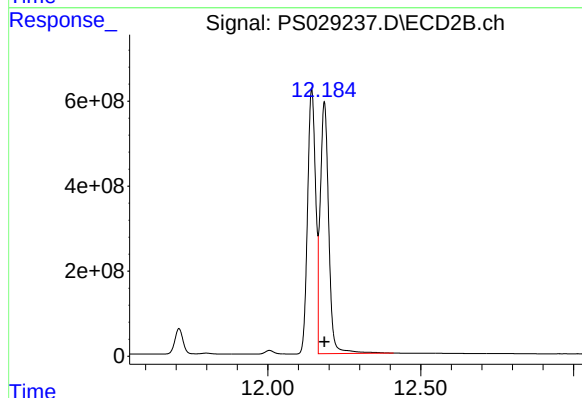
Time



#15 Picloram

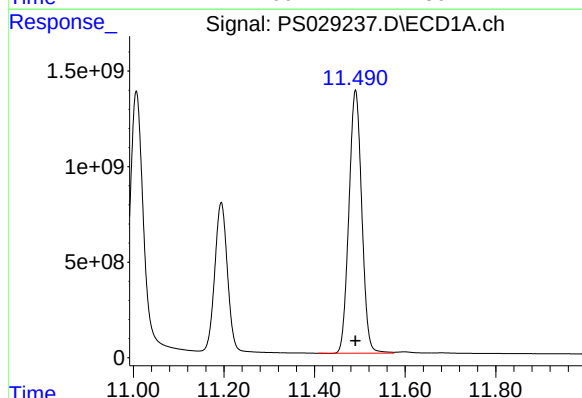
R.T.: 11.007 min
Delta R.T.: 0.000 min
Response: 28555054930
Conc: 941.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



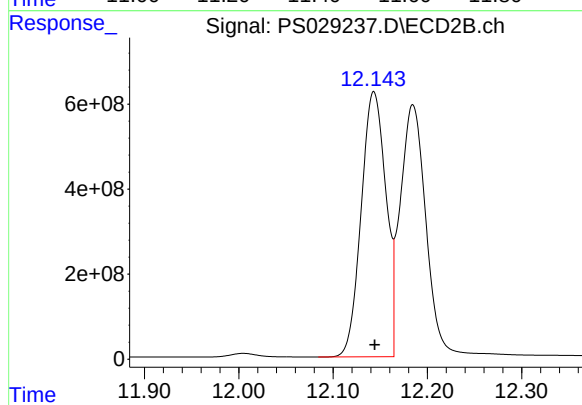
#15 Picloram

R.T.: 12.185 min
Delta R.T.: 0.000 min
Response: 11497763578
Conc: 979.47 ng/ml



#16 DCPA

R.T.: 11.490 min
Delta R.T.: 0.000 min
Response: 27030826064
Conc: 925.44 ng/ml



#16 DCPA

R.T.: 12.143 min
Delta R.T.: 0.000 min
Response: 11366475727
Conc: 960.52 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029238.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 21:32
 Operator : AR\AJ
 Sample : HSTDICC1500
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 22 00:48:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.159	7.631	5603.2E6	1365.5E6	1417.359	1487.581
Target Compounds							
1) T	Dalapon	2.599	2.650	7080.6E6	2737.9E6	1327.200	1332.102
2) T	3,5-DICHL...	6.341	6.603	7424.8E6	1902.1E6	1307.522	1372.147
3) T	4-Nitroph...	6.957	7.161	3188.9E6	1057.7E6	1374.098	1358.752
5) T	DICAMBA	7.342	7.826	22386.1E6	7349.3E6	1320.684	1434.025
6) T	MCPD	7.528	7.937	1849.5E6	345.7E6	149.200	146.934
7) T	MCPA	7.678	8.179	2403.1E6	459.1E6	143.079	144.104
8) T	DICHLORPROP	8.042	8.536	5832.5E6	1734.2E6	1330.222	1392.771
9) T	2,4-D	8.270	8.861	6067.9E6	1740.7E6	1325.935	1403.795
10) T	Pentachlo...	8.571	9.379	54359.2E6	30762.8E6	916.113	1340.930 #
11) T	2,4,5-TP ...	9.138	9.756	31108.4E6	12548.3E6	1298.890	1394.873
12) T	2,4,5-T	9.428	10.170	32195.4E6	11467.8E6	1295.051	1404.828
13) T	2,4-DB	9.996	10.733	5711.1E6	1098.1E6	1395.655	1464.450
14) T	DINOSEB	11.193	11.109	21096.9E6	8350.5E6	1306.243	1401.292
15) T	Picloram	11.005	12.184	41466.5E6	17354.9E6	1366.686	1478.435
16) T	DCPA	11.489	12.143	37451.6E6	16567.6E6	1282.213	1400.042

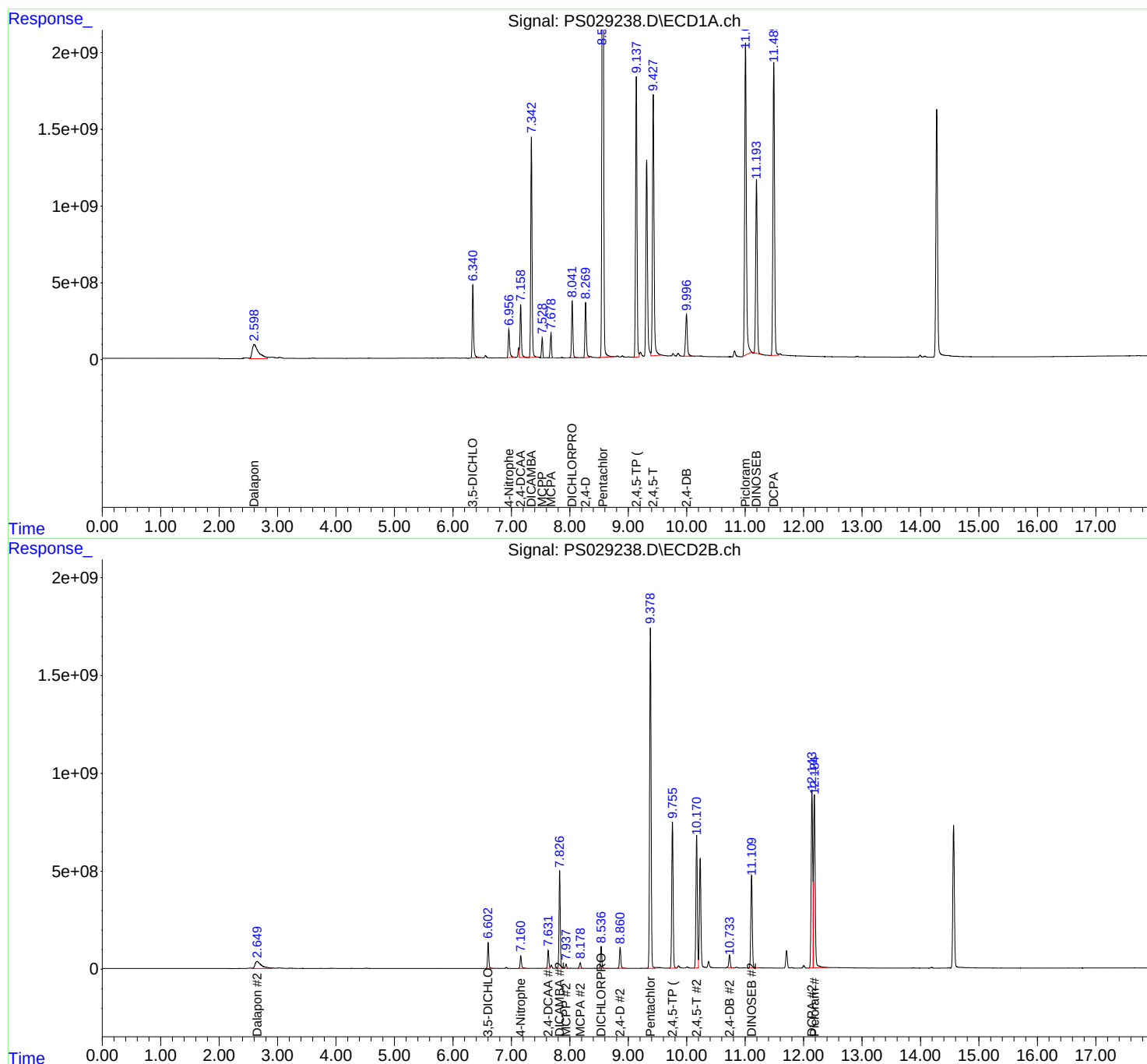
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029238.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 21:32
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

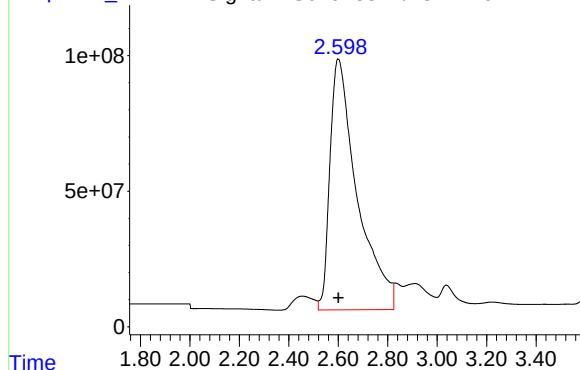
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:48:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS029238.D\ECD1A.ch

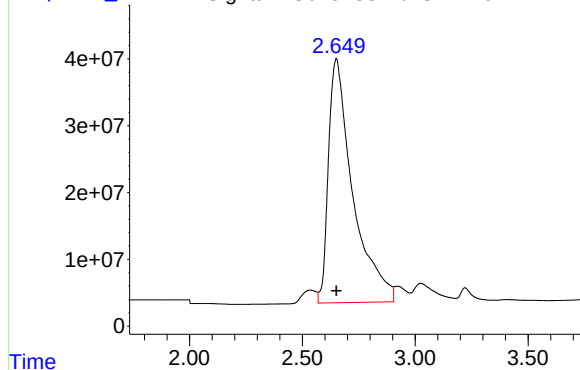


#1 Dalapon

R.T.: 2.599 min
Delta R.T.: -0.001 min
Response: 7080571294
Conc: 1327.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

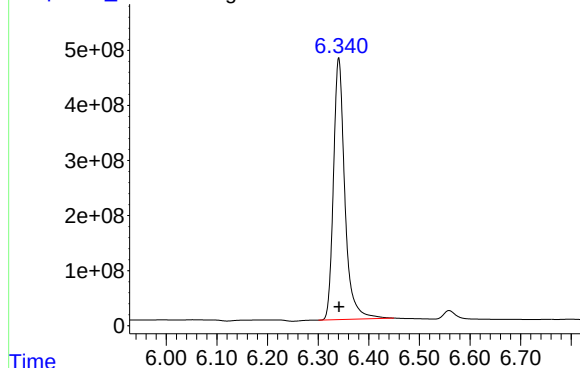
Response_ Signal: PS029238.D\ECD2B.ch



#1 Dalapon

R.T.: 2.650 min
Delta R.T.: 0.000 min
Response: 2737855534
Conc: 1332.10 ng/ml

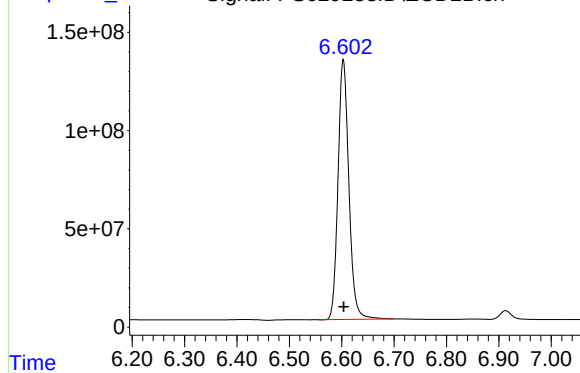
Response_ Signal: PS029238.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 7424849560
Conc: 1307.52 ng/ml

Response_ Signal: PS029238.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

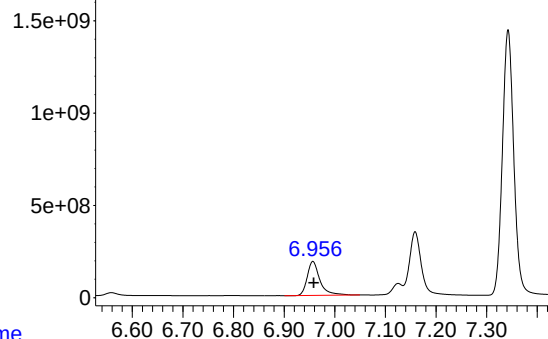
R.T.: 6.603 min
Delta R.T.: -0.001 min
Response: 1902059626
Conc: 1372.15 ng/ml

Response_

Signal: PS029238.D\ECD1A.ch

#3 4-Nitrophenol

ICAL Form



R.T.: 6.957 min
Delta R.T.: -0.002 min
Response: 3188857470
Conc: 1374.10 ng/ml

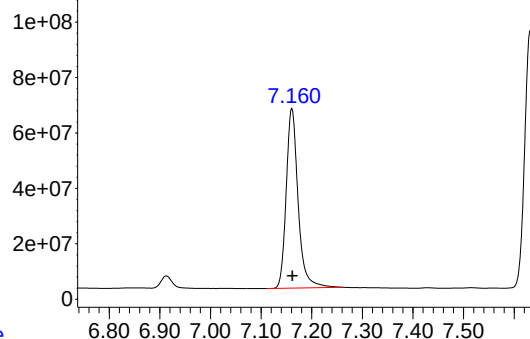
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Time

Response_

Signal: PS029238.D\ECD2B.ch

#3 4-Nitrophenol



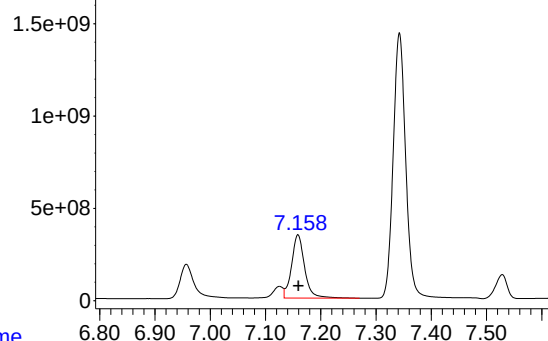
R.T.: 7.161 min
Delta R.T.: -0.001 min
Response: 1057735327
Conc: 1358.75 ng/ml

Time

Response_

Signal: PS029238.D\ECD1A.ch

#4 2,4-DCAA



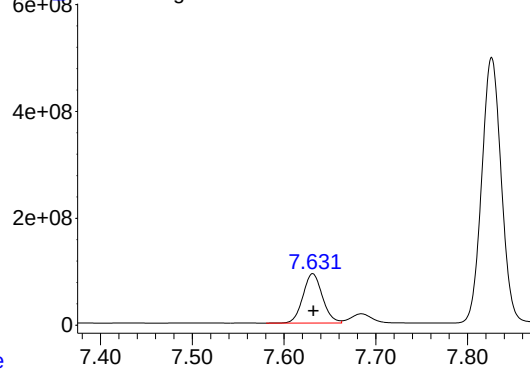
R.T.: 7.159 min
Delta R.T.: 0.000 min
Response: 5603151882
Conc: 1417.36 ng/ml

Time

Response_

Signal: PS029238.D\ECD2B.ch

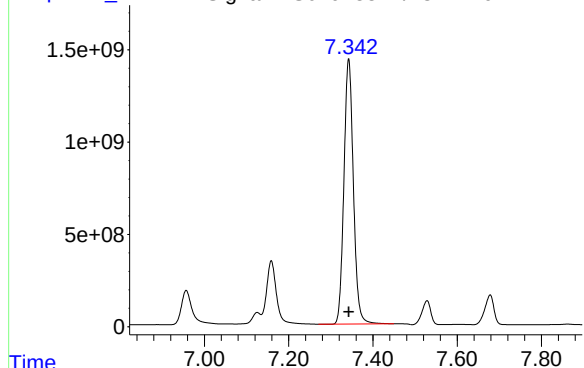
#4 2,4-DCAA



R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 1365513416
Conc: 1487.58 ng/ml

Time

Response_ Signal: PS029238.D\ECD1A.ch

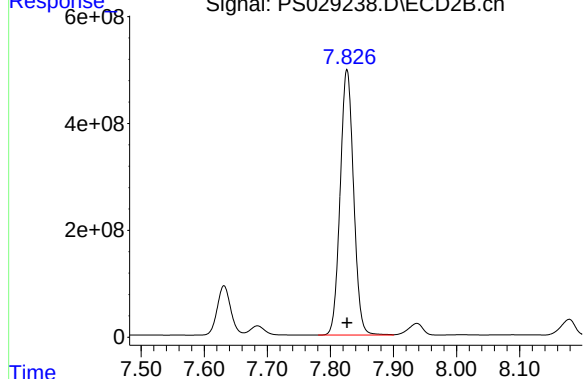


#5 DICAMBA

R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 22386140520
Conc: 1320.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

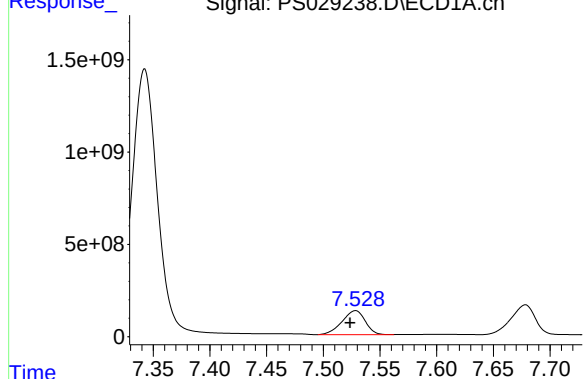
Time Response_ Signal: PS029238.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.826 min
Delta R.T.: 0.000 min
Response: 7349348798
Conc: 1434.03 ng/ml

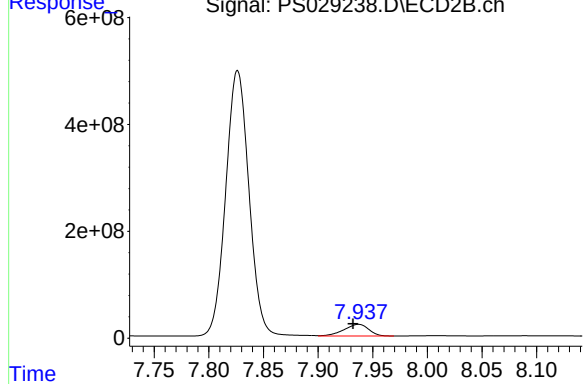
Time Response_ Signal: PS029238.D\ECD1A.ch



#6 MCPP

R.T.: 7.528 min
Delta R.T.: 0.005 min
Response: 1849517092
Conc: 149.20 ug/ml

Time Response_ Signal: PS029238.D\ECD2B.ch

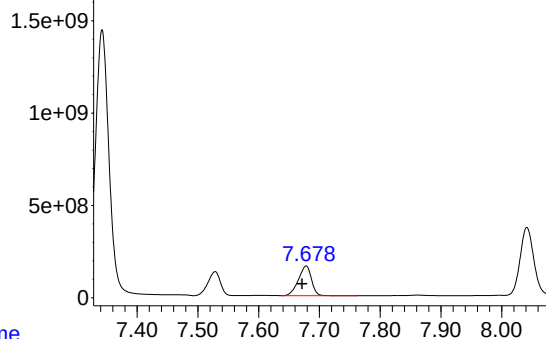


#6 MCPP

R.T.: 7.937 min
Delta R.T.: 0.005 min
Response: 345689207
Conc: 146.93 ug/ml

Response_ Signal: PS029238.D\ECD1A.ch

#7 MCPA

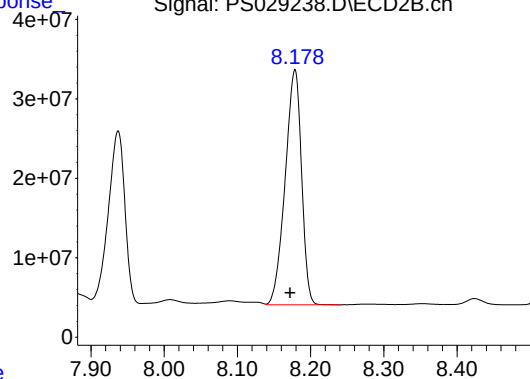


R.T.: 7.678 min
Delta R.T.: 0.007 min
Response: 2403120724
Conc: 143.08 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Time Response_ Signal: PS029238.D\ECD2B.ch

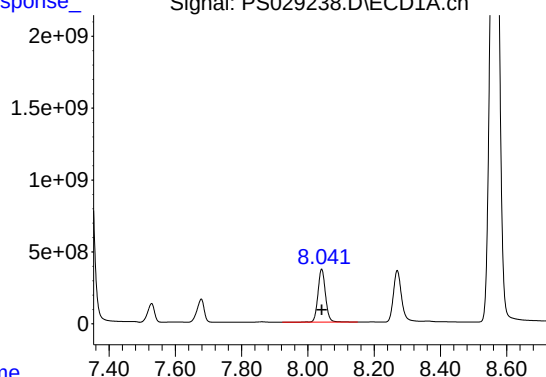
#7 MCPA



R.T.: 8.179 min
Delta R.T.: 0.007 min
Response: 459050317
Conc: 144.10 ug/ml

Time Response_ Signal: PS029238.D\ECD1A.ch

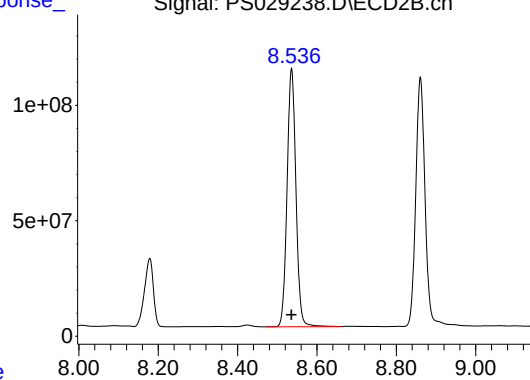
#8 DICHLORPROP



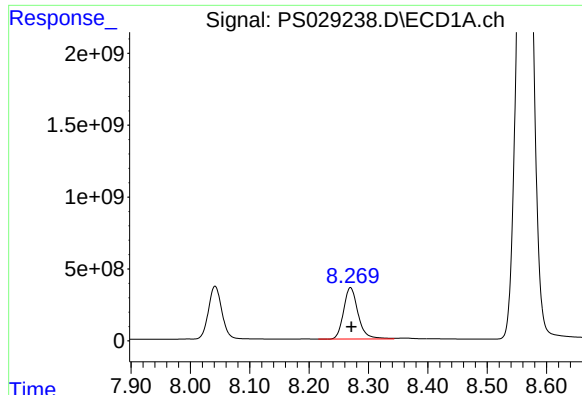
R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 5832532660
Conc: 1330.22 ng/ml

Time Response_ Signal: PS029238.D\ECD2B.ch

#8 DICHLORPROP



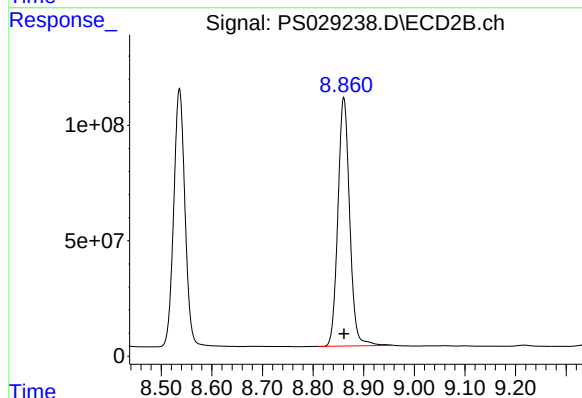
R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 1734192188
Conc: 1392.77 ng/ml



#9 2,4-D

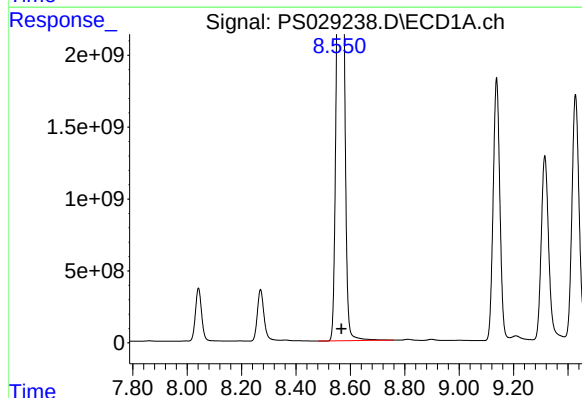
R.T.: 8.270 min
Delta R.T.: -0.002 min
Response: 6067874299
Conc: 1325.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



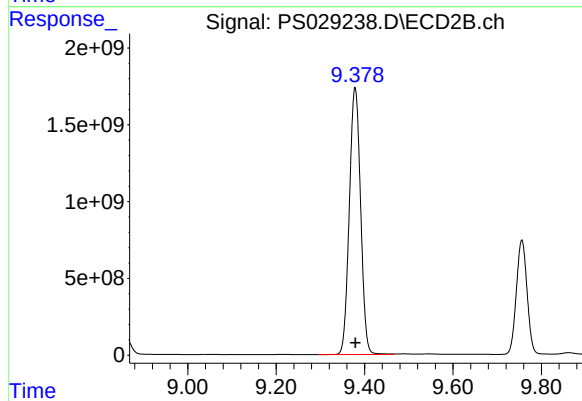
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 1740651458
Conc: 1403.79 ng/ml



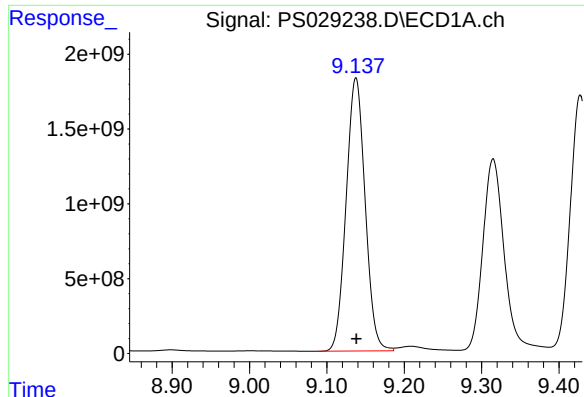
#10 Pentachlorophenol

R.T.: 8.571 min
Delta R.T.: 0.004 min
Response: 54359230461
Conc: 916.11 ng/ml



#10 Pentachlorophenol

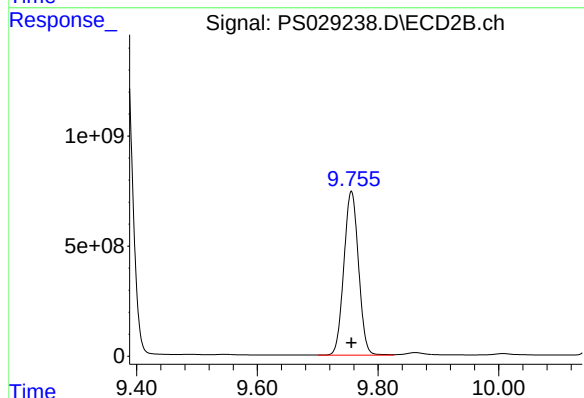
R.T.: 9.379 min
Delta R.T.: 0.000 min
Response: 30762766016
Conc: 1340.93 ng/ml



#11 2,4,5-TP (SILVEX)

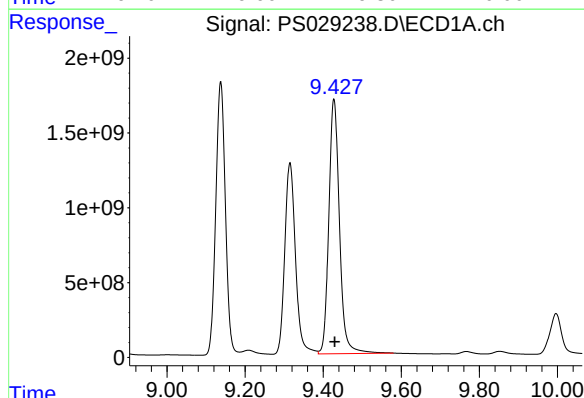
R.T.: 9.138 min
Delta R.T.: 0.000 min
Response: 31108399722
Conc: 1298.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



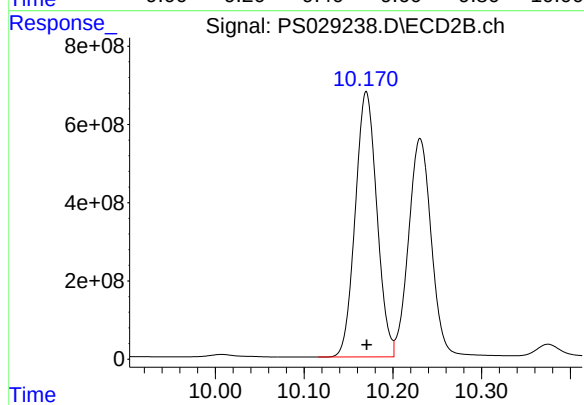
#11 2,4,5-TP (SILVEX)

R.T.: 9.756 min
Delta R.T.: 0.000 min
Response: 12548343048
Conc: 1394.87 ng/ml



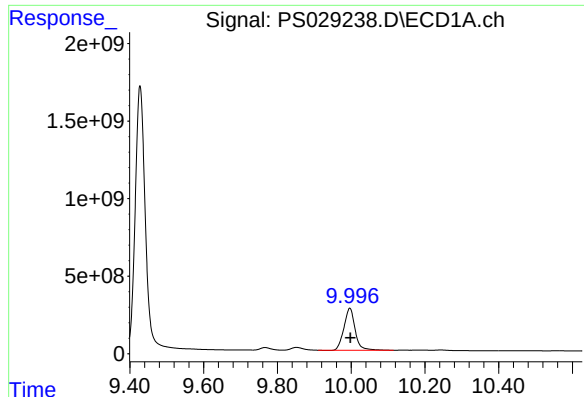
#12 2,4,5-T

R.T.: 9.428 min
Delta R.T.: -0.002 min
Response: 32195350320
Conc: 1295.05 ng/ml



#12 2,4,5-T

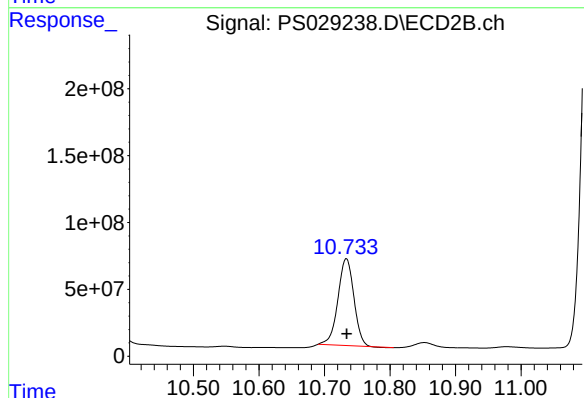
R.T.: 10.170 min
Delta R.T.: 0.000 min
Response: 11467843425
Conc: 1404.83 ng/ml



#13 2,4-DB

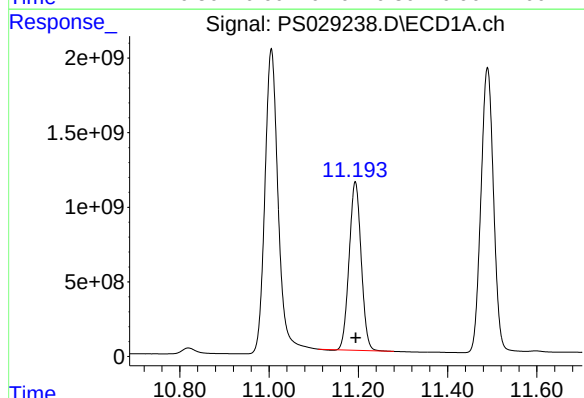
R.T.: 9.996 min
Delta R.T.: -0.002 min
Response: 5711124670
Conc: 1395.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



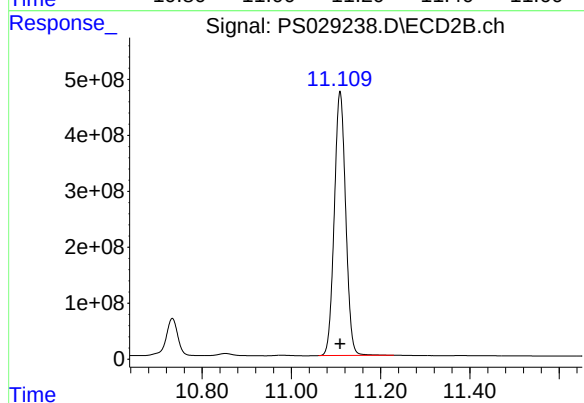
#13 2,4-DB

R.T.: 10.733 min
Delta R.T.: 0.000 min
Response: 1098082586
Conc: 1464.45 ng/ml



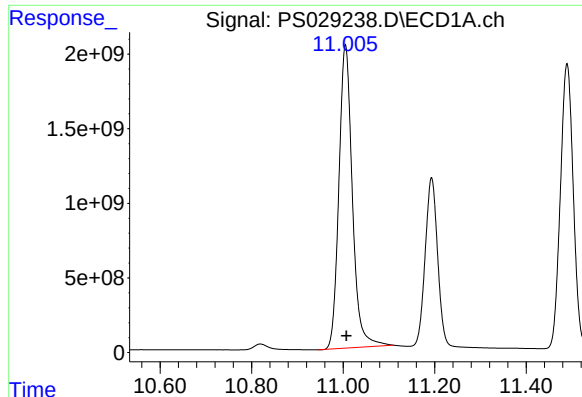
#14 DINOSEB

R.T.: 11.193 min
Delta R.T.: -0.001 min
Response: 21096868606
Conc: 1306.24 ng/ml



#14 DINOSEB

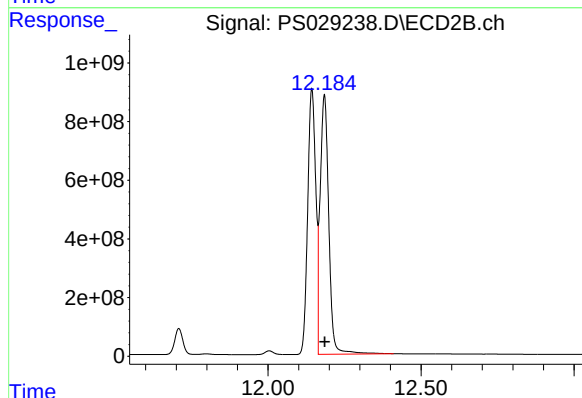
R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 8350523882
Conc: 1401.29 ng/ml



#15 Picloram

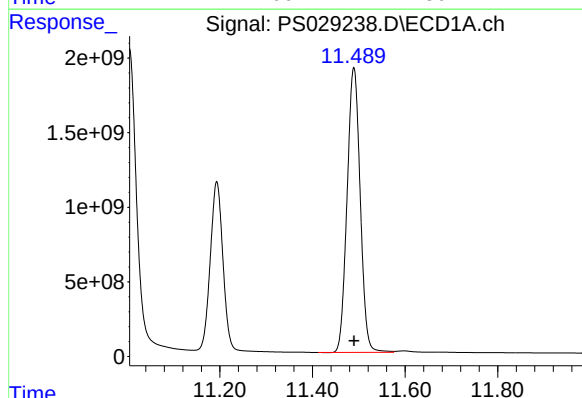
R.T.: 11.005 min
Delta R.T.: -0.002 min
Response: 41466531319
Conc: 1366.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



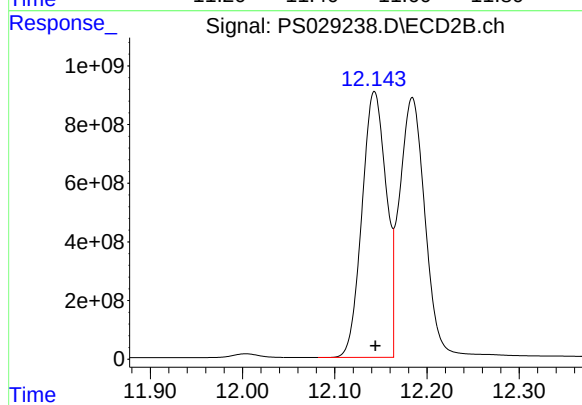
#15 Picloram

R.T.: 12.184 min
Delta R.T.: 0.000 min
Response: 17354912982
Conc: 1478.44 ng/ml



#16 DCPA

R.T.: 11.489 min
Delta R.T.: 0.000 min
Response: 37451604963
Conc: 1282.21 ng/ml



#16 DCPA

R.T.: 12.143 min
Delta R.T.: -0.001 min
Response: 16567633877
Conc: 1400.04 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
 Data File : PS029239.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 21:56
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS022125

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 22 00:48:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 00:45:48 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.159	7.631	3006.3E6	696.2E6	760.470	758.413
Target Compounds							
1) T	Dalapon	2.601	2.647	3672.9E6	1411.4E6	688.464	686.734
2) T	3,5-DICHL...	6.341	6.603	3997.2E6	979.2E6	703.903	706.431
3) T	4-Nitroph...	6.958	7.162	1586.8E6	534.7E6	683.748	686.872
5) T	DICAMBA	7.342	7.826	12149.2E6	3655.7E6	716.752	713.308
6) T	MCPD	7.523	7.931	877.8E6	168.1E6	70.814	71.451
7) T	MCPA	7.671	8.171	1179.4E6	225.5E6	70.221	70.791
8) T	DICHLORPROP	8.042	8.535	3120.1E6	886.8E6	711.599	712.198
9) T	2,4-D	8.270	8.860	3260.0E6	886.8E6	712.372	715.191
10) T	Pentachlo...	8.566	9.378	42728.6E6	16556.0E6	720.103	721.667
11) T	2,4,5-TP ...	9.137	9.755	17209.4E6	6480.5E6	718.554	720.373
12) T	2,4,5-T	9.428	10.169	17943.6E6	5874.7E6	721.778	719.658
13) T	2,4-DB	9.997	10.733	2931.8E6	536.7E6	716.459	715.709
14) T	DINOSEB	11.193	11.109	11470.9E6	4251.4E6	710.238	713.421
15) T	Picloram	11.006	12.183	21726.9E6	8497.3E6	716.090	723.872
16) T	DCPA	11.489	12.143	21240.2E6	8598.4E6	727.190	726.606

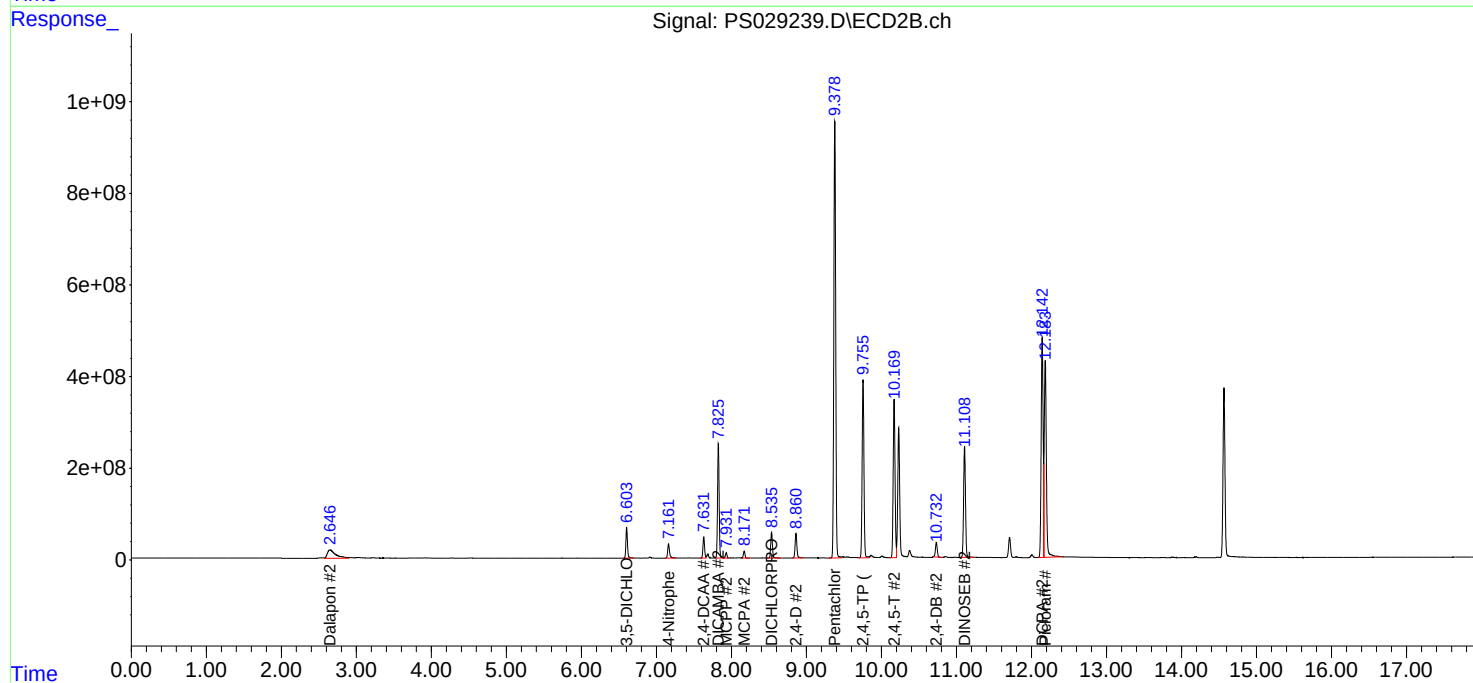
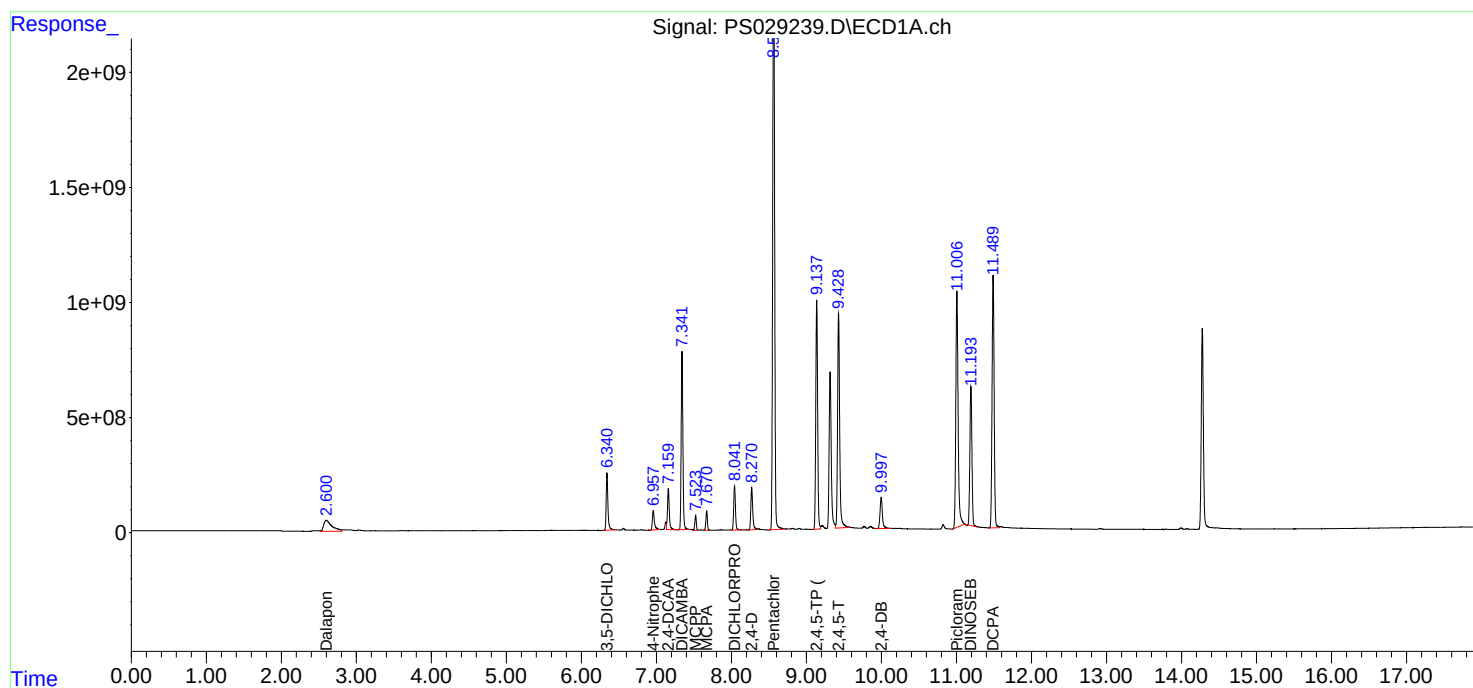
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

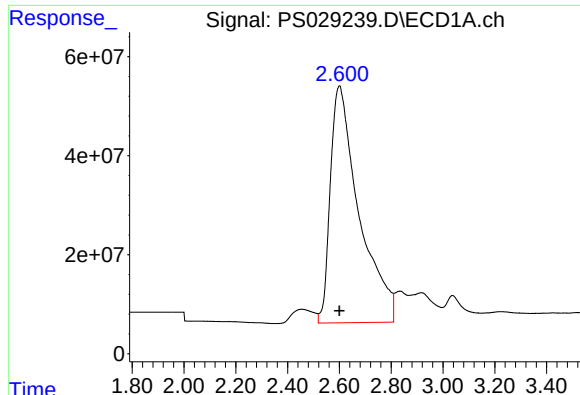
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029239.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 21:56
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS022125

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 00:48:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 00:45:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

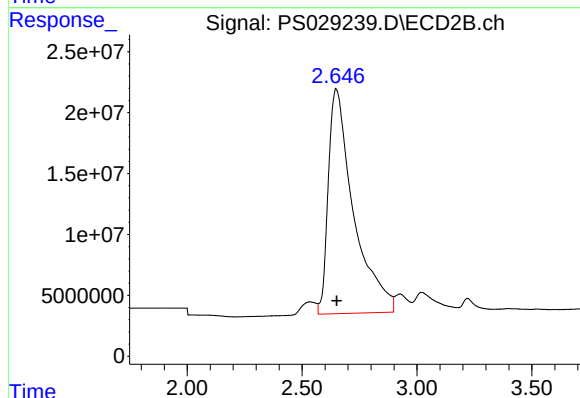




#1 Dalapon

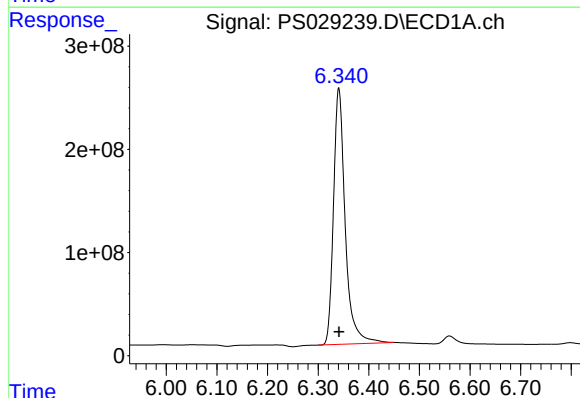
R.T.: 2.601 min
Delta R.T.: 0.000 min
Response: 3672933634
Conc: 688.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125



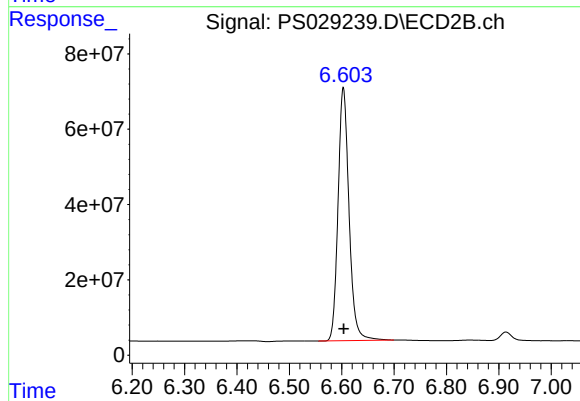
#1 Dalapon

R.T.: 2.647 min
Delta R.T.: -0.004 min
Response: 1411437306
Conc: 686.73 ng/ml



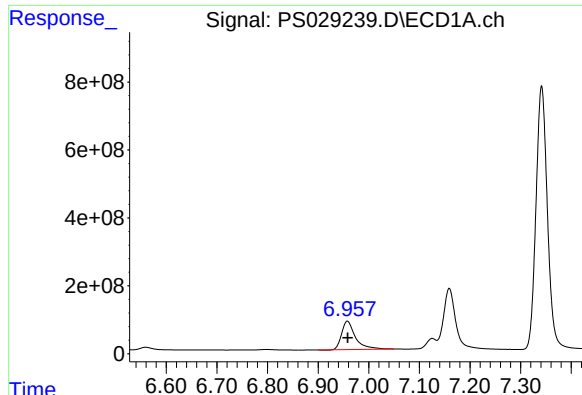
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 3997160630
Conc: 703.90 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

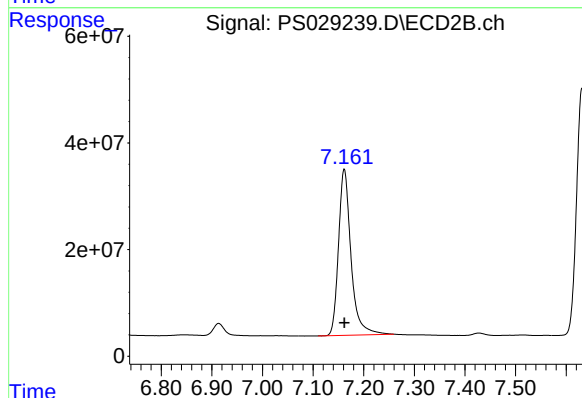
R.T.: 6.603 min
Delta R.T.: 0.000 min
Response: 979249364
Conc: 706.43 ng/ml



#3 4-Nitrophenol

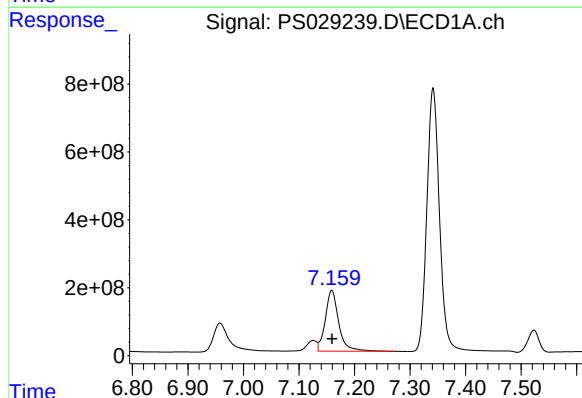
R.T.: 6.958 min
Delta R.T.: 0.000 min
Response: 1586766955
Conc: 683.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125



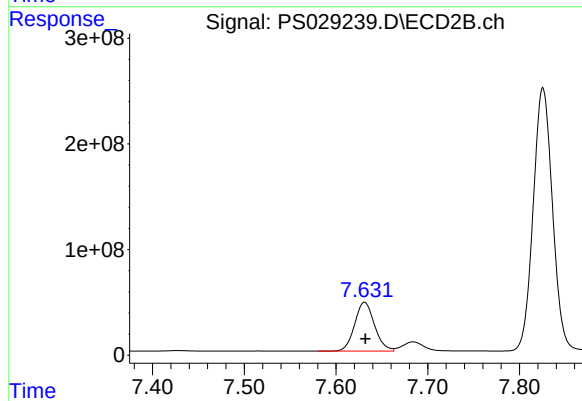
#3 4-Nitrophenol

R.T.: 7.162 min
Delta R.T.: 0.000 min
Response: 534703115
Conc: 686.87 ng/ml



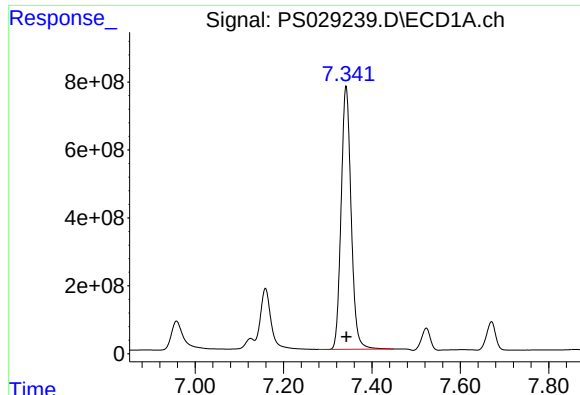
#4 2,4-DCAA

R.T.: 7.159 min
Delta R.T.: 0.000 min
Response: 3006318294
Conc: 760.47 ng/ml



#4 2,4-DCAA

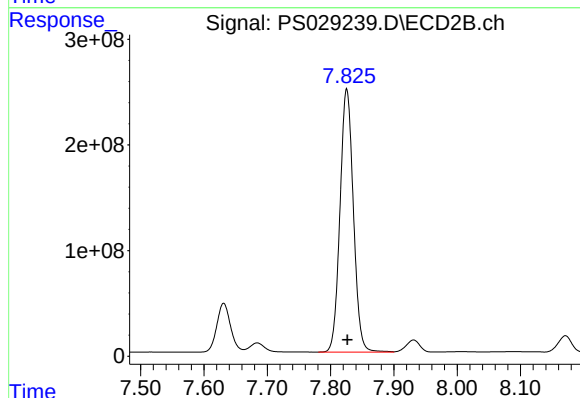
R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 696179041
Conc: 758.41 ng/ml



#5 DICAMBA

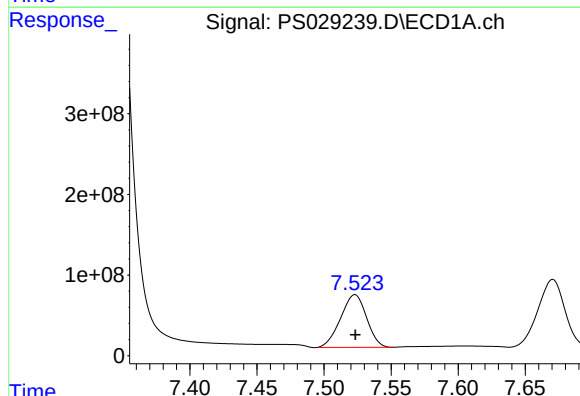
R.T.: 7.342 min
Delta R.T.: -0.001 min
Response: 12149233538
Conc: 716.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125



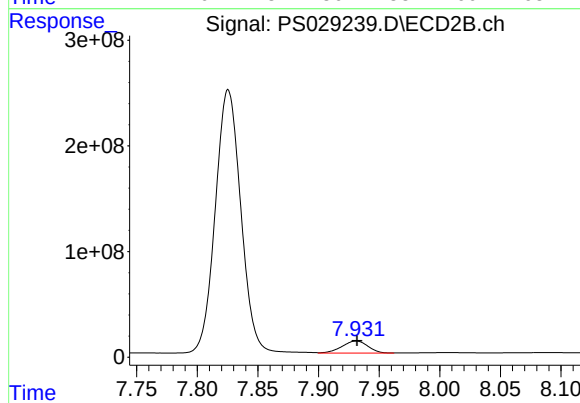
#5 DICAMBA

R.T.: 7.826 min
Delta R.T.: 0.000 min
Response: 3655688320
Conc: 713.31 ng/ml



#6 MCP

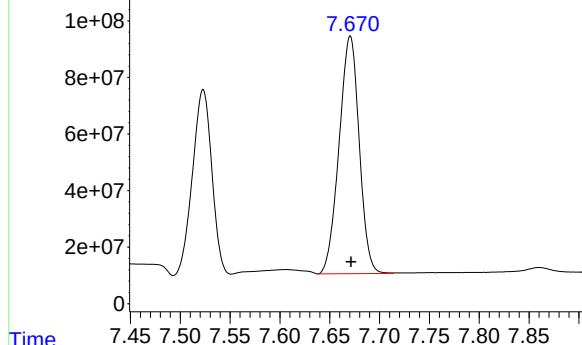
R.T.: 7.523 min
Delta R.T.: 0.000 min
Response: 877828120
Conc: 70.81 ug/ml



#6 MCP

R.T.: 7.931 min
Delta R.T.: 0.000 min
Response: 168100941
Conc: 71.45 ug/ml

Response_ Signal: PS029239.D\ECD1A.ch

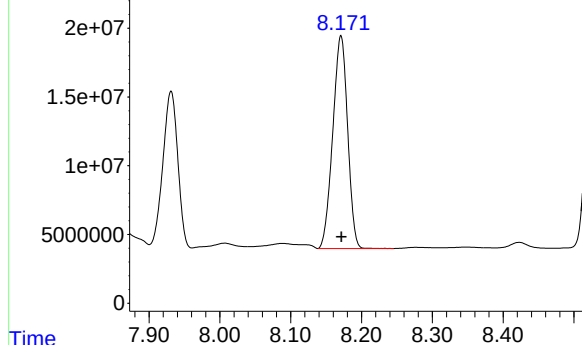


#7 MCPA

R.T.: 7.671 min
Delta R.T.: 0.000 min
Response: 1179424466
Conc: 70.22 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125

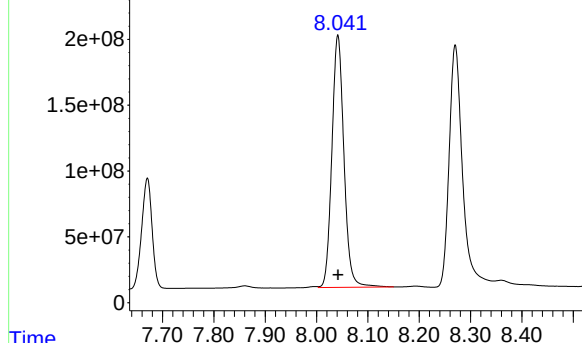
Response_ Signal: PS029239.D\ECD2B.ch



#7 MCPA

R.T.: 8.171 min
Delta R.T.: 0.000 min
Response: 225507146
Conc: 70.79 ug/ml

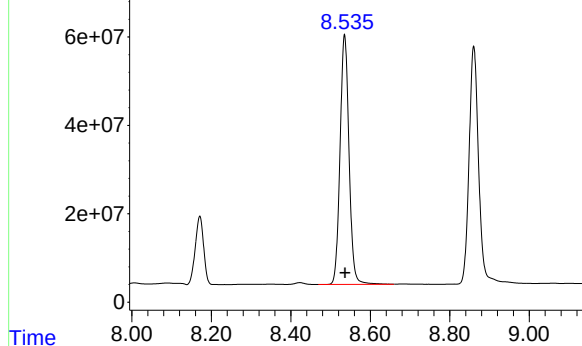
Response_ Signal: PS029239.D\ECD1A.ch



#8 DICHLORPROP

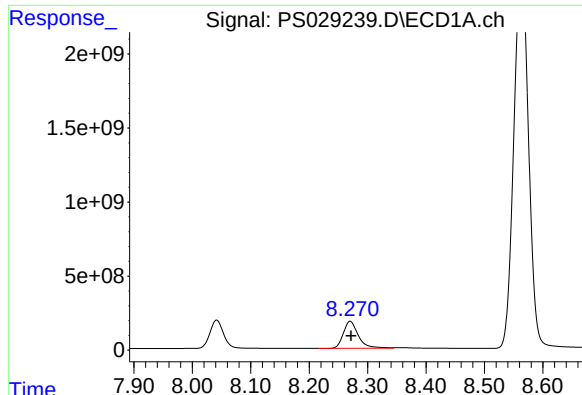
R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 3120098229
Conc: 711.60 ng/ml

Response_ Signal: PS029239.D\ECD2B.ch



#8 DICHLORPROP

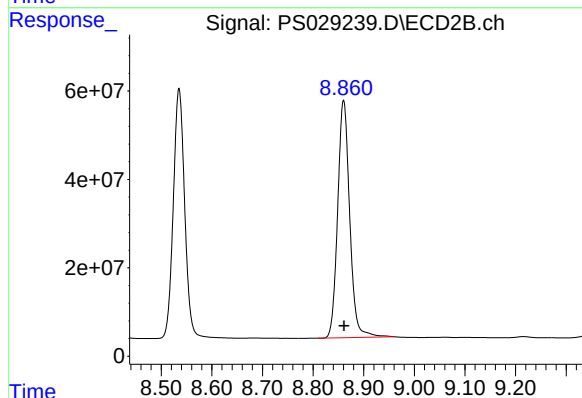
R.T.: 8.535 min
Delta R.T.: -0.001 min
Response: 886785123
Conc: 712.20 ng/ml



#9 2,4-D

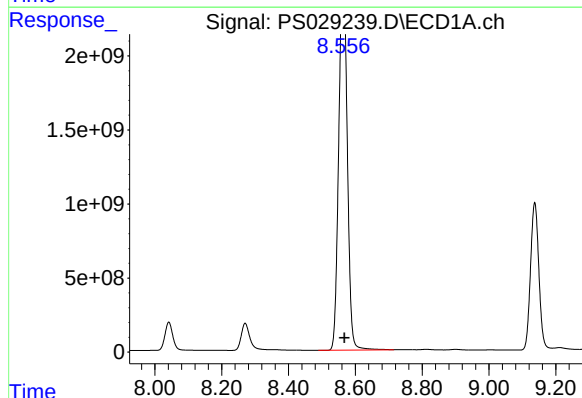
R.T.: 8.270 min
Delta R.T.: -0.001 min
Response: 3260026538
Conc: 712.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125



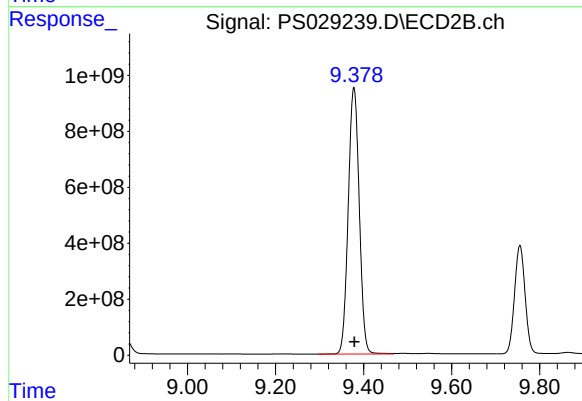
#9 2,4-D

R.T.: 8.860 min
Delta R.T.: 0.000 min
Response: 886809454
Conc: 715.19 ng/ml



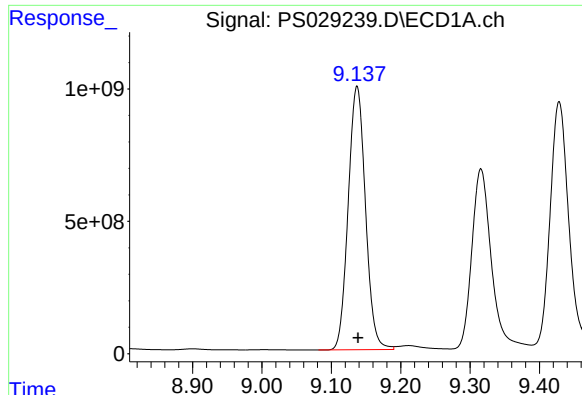
#10 Pentachlorophenol

R.T.: 8.566 min
Delta R.T.: 0.000 min
Response: 42728612521
Conc: 720.10 ng/ml



#10 Pentachlorophenol

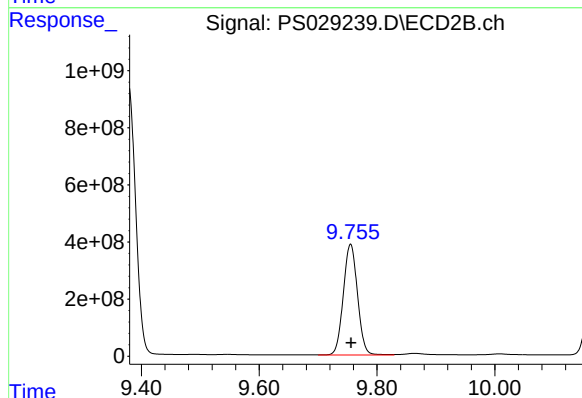
R.T.: 9.378 min
Delta R.T.: 0.000 min
Response: 16556037362
Conc: 721.67 ng/ml



#11 2,4,5-TP (SILVEX)

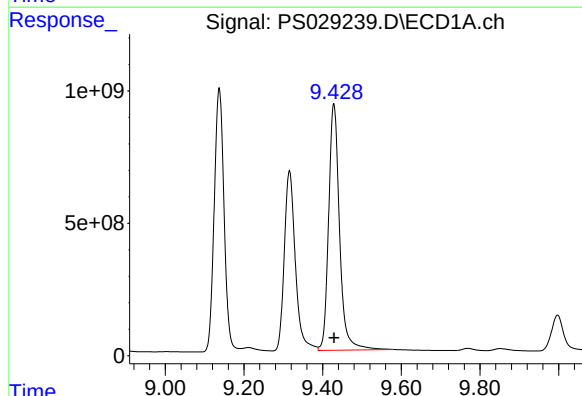
R.T.: 9.137 min
Delta R.T.: -0.001 min
Response: 17209365732
Conc: 718.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125



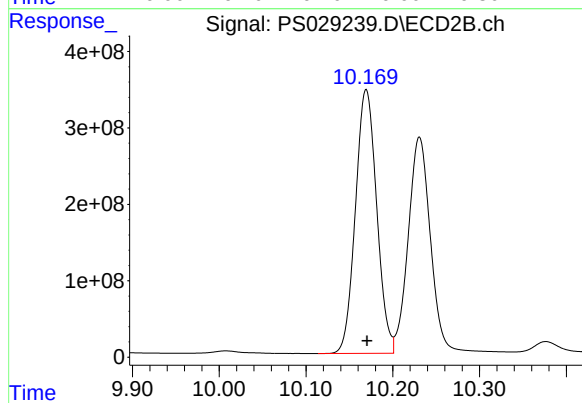
#11 2,4,5-TP (SILVEX)

R.T.: 9.755 min
Delta R.T.: 0.000 min
Response: 6480508039
Conc: 720.37 ng/ml



#12 2,4,5-T

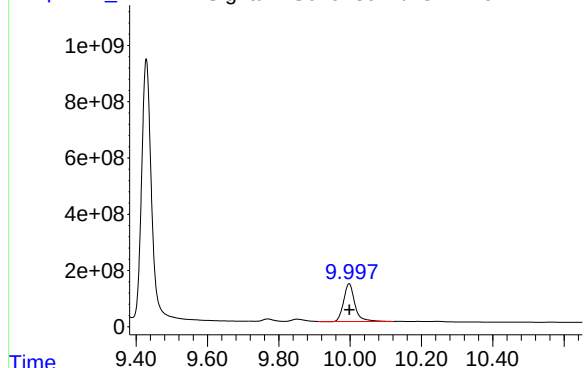
R.T.: 9.428 min
Delta R.T.: 0.000 min
Response: 17943611089
Conc: 721.78 ng/ml



#12 2,4,5-T

R.T.: 10.169 min
Delta R.T.: -0.001 min
Response: 5874685799
Conc: 719.66 ng/ml

Response_ Signal: PS029239.D\ECD1A.ch

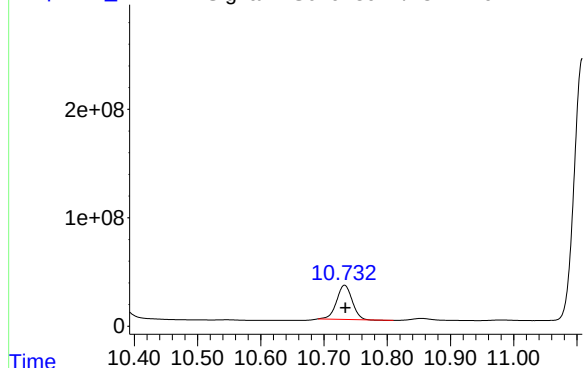


#13 2,4-DB

R.T.: 9.997 min
Delta R.T.: 0.000 min
Response: 2931802430
Conc: 716.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125

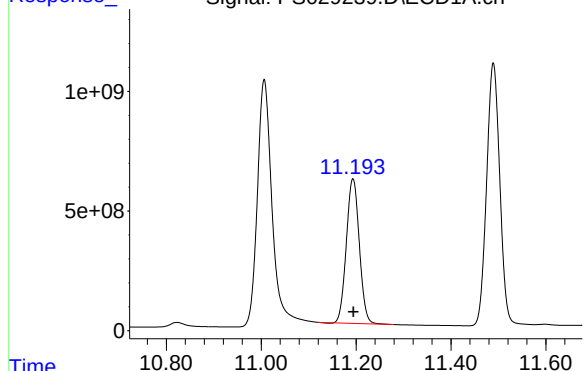
Response_ Signal: PS029239.D\ECD2B.ch



#13 2,4-DB

R.T.: 10.733 min
Delta R.T.: -0.001 min
Response: 536657625
Conc: 715.71 ng/ml

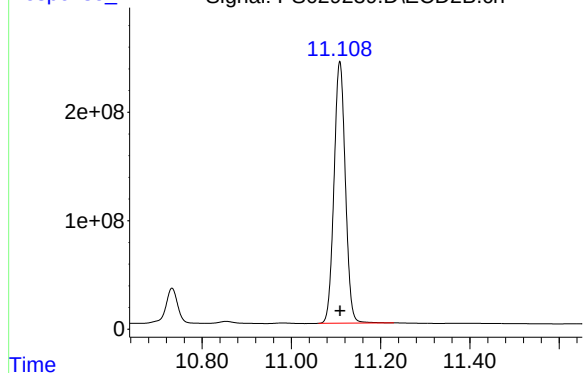
Response_ Signal: PS029239.D\ECD1A.ch



#14 DINOSEB

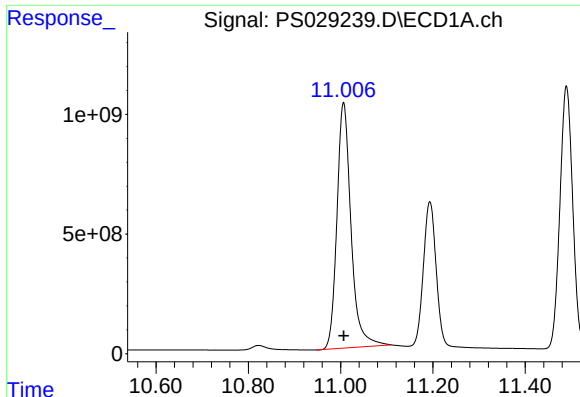
R.T.: 11.193 min
Delta R.T.: -0.001 min
Response: 11470913455
Conc: 710.24 ng/ml

Response_ Signal: PS029239.D\ECD2B.ch



#14 DINOSEB

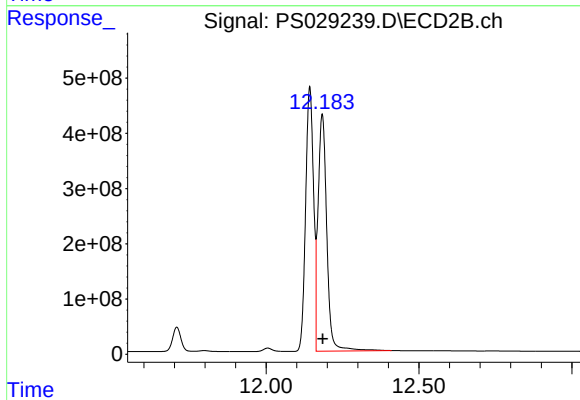
R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 4251391117
Conc: 713.42 ng/ml



#15 Picloram

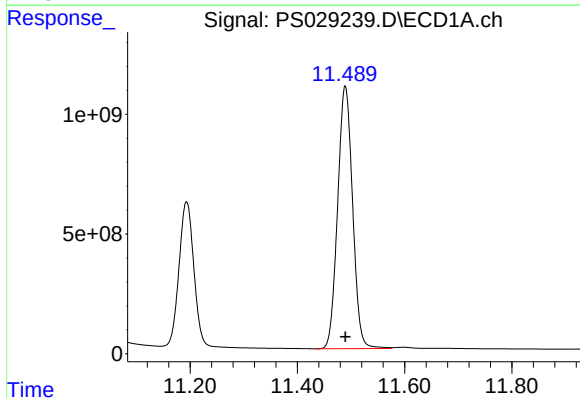
R.T.: 11.006 min
Delta R.T.: 0.000 min
Response: 21726851381
Conc: 716.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS022125



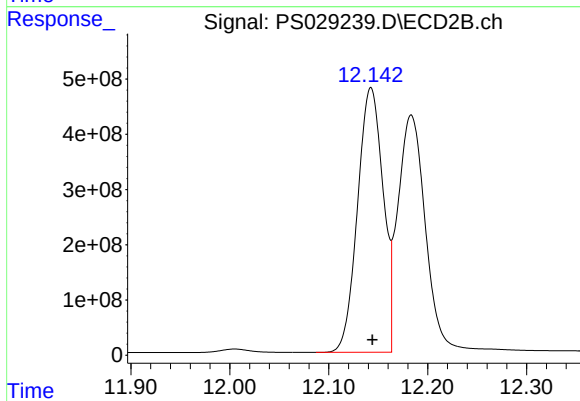
#15 Picloram

R.T.: 12.183 min
Delta R.T.: -0.002 min
Response: 8497319996
Conc: 723.87 ng/ml



#16 DCPA

R.T.: 11.489 min
Delta R.T.: 0.000 min
Response: 21240169581
Conc: 727.19 ng/ml



#16 DCPA

R.T.: 12.143 min
Delta R.T.: -0.001 min
Response: 8598414870
Conc: 726.61 ng/ml



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

Continuing Calib Date: 02/19/2025 Initial Calibration Date(s): 02/19/2025 02/19/2025

Continuing Calib Time: 16:45 Initial Calibration Time(s): 10:21 11:57

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.34	7.34	7.24	7.44	0.00
2,4-DCAA	7.16	7.16	7.06	7.26	0.00
Dalapon	2.60	2.60	2.50	2.70	0.00
DICHLORPROP	8.04	8.04	7.94	8.14	0.00
2,4-D	8.27	8.27	8.17	8.37	0.00
2,4,5-TP(Silvex)	9.14	9.14	9.04	9.24	0.00
2,4,5-T	9.43	9.43	9.33	9.53	0.00
2,4-DB	10.00	10.00	9.90	10.10	0.00
Dinoseb	11.20	11.20	11.10	11.30	0.00



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

Continuing Calib Date: 02/19/2025 Initial Calibration Date(s): 02/19/2025 02/19/2025

Continuing Calib Time: 16:45 Initial Calibration Time(s): 10:21 11:57

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.83	7.83	7.73	7.93	0.00
2,4-DCAA	7.64	7.64	7.54	7.74	0.00
Dalapon	2.65	2.65	2.55	2.75	0.00
DICHLORPROP	8.54	8.54	8.44	8.64	0.00
2,4-D	8.87	8.87	8.77	8.97	0.00
2,4,5-TP(Silvex)	9.76	9.77	9.67	9.87	0.01
2,4,5-T	10.18	10.18	10.08	10.28	0.00
2,4-DB	10.74	10.75	10.65	10.85	0.01
Dinoseb	11.12	11.12	11.02	11.22	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 02/19/2025 02/19/2025

Client Sample No.: CCAL01 Date Analyzed: 02/19/2025

Lab Sample No.: HSTDCCC750 Data File : PS029207.D Time Analyzed: 16:45

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.429	9.329	9.529	688.590	712.500	-3.4
2,4,5-TP(Silvex)	9.138	9.039	9.239	690.580	712.500	-3.1
2,4-D	8.270	8.170	8.370	664.580	705.000	-5.7
2,4-DB	9.997	9.898	10.098	669.260	712.500	-6.1
2,4-DCAA	7.158	7.059	7.259	708.710	750.000	-5.5
Dalapon	2.603	2.504	2.704	642.170	682.500	-5.9
DICAMBA	7.342	7.242	7.442	681.670	705.000	-3.3
DICHLORPROP	8.042	7.942	8.142	658.440	705.000	-6.6
Dinoseb	11.196	11.097	11.297	671.890	705.000	-4.7



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/19/2025 02/19/2025

Client Sample No.: CCAL01 Date Analyzed: 02/19/2025

Lab Sample No.: HSTDCCC750 Data File : PS029207.D Time Analyzed: 16:45

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.178	10.081	10.281	700.300	712.500	-1.7
2,4,5-TP(Silvex)	9.763	9.666	9.866	703.290	712.500	-1.3
2,4-D	8.867	8.769	8.969	687.530	705.000	-2.5
2,4-DB	10.742	10.645	10.845	695.460	712.500	-2.4
2,4-DCAA	7.637	7.539	7.739	729.430	750.000	-2.7
Dalapon	2.650	2.553	2.753	656.470	682.500	-3.8
DICAMBA	7.832	7.734	7.934	698.370	705.000	-0.9
DICHLORPROP	8.542	8.444	8.644	681.970	705.000	-3.3
Dinoseb	11.119	11.021	11.221	681.670	705.000	-3.3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029207.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 16:45
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:31:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.158	7.637	1181.1E6	705.7E6	708.711	729.433
Target Compounds							
1) T	Dalapon	2.603	2.650	2111.1E6	1394.7E6	642.170	656.474
2) T	3,5-DICHL...	6.342	6.608	1646.5E6	992.3E6	661.117	681.563
3) T	4-Nitroph...	6.957	7.167	946.6E6	564.3E6	660.176	658.952
5) T	DICAMBA	7.342	7.832	5981.6E6	3689.5E6	681.667	698.369
6) T	MCP	7.523	7.938	226.1E6	163.6E6	71.711	71.689
7) T	MCPA	7.671	8.178	309.0E6	221.9E6	68.832	70.402
8) T	DICHLORPROP	8.042	8.542	1469.1E6	893.7E6	658.442	681.974
9) T	2,4-D	8.270	8.867	1510.6E6	901.9E6	664.579	687.529
10) T	Pentachlo...	8.564	9.386	30038.6E6	16815.0E6	721.509	706.765
11) T	2,4,5-TP ...	9.138	9.763	11135.6E6	6594.4E6	690.584	703.293
12) T	2,4,5-T	9.429	10.178	10482.2E6	6060.1E6	688.588	700.302
13) T	2,4-DB	9.997	10.742	1617.7E6	594.7E6	669.264	695.456
14) T	DINOSEB	11.196	11.119	8536.9E6	4414.2E6	671.887	681.671
15) T	Picloram	11.007	12.195	17504.4E6	8611.6E6	669.815	686.719
16) T	DCPA	11.492	12.154	18419.0E6	8832.2E6	704.233	711.008

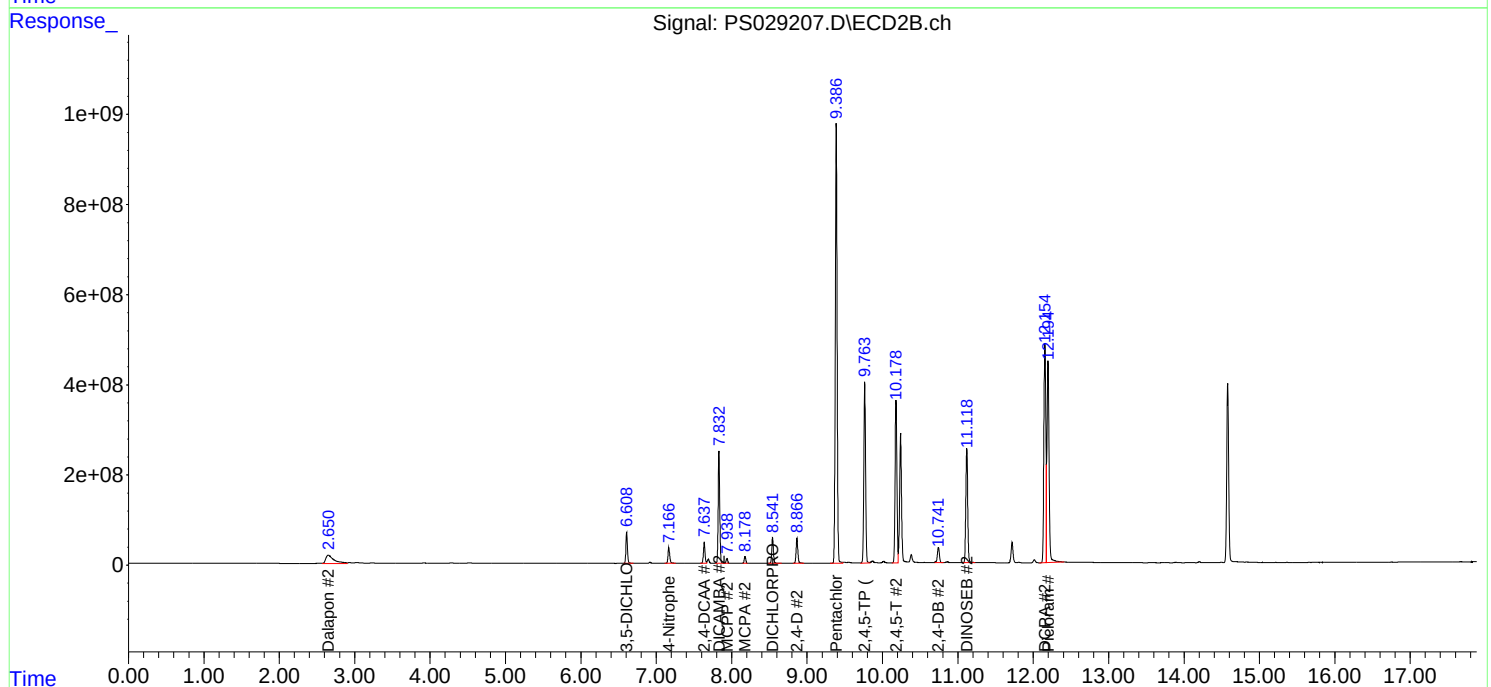
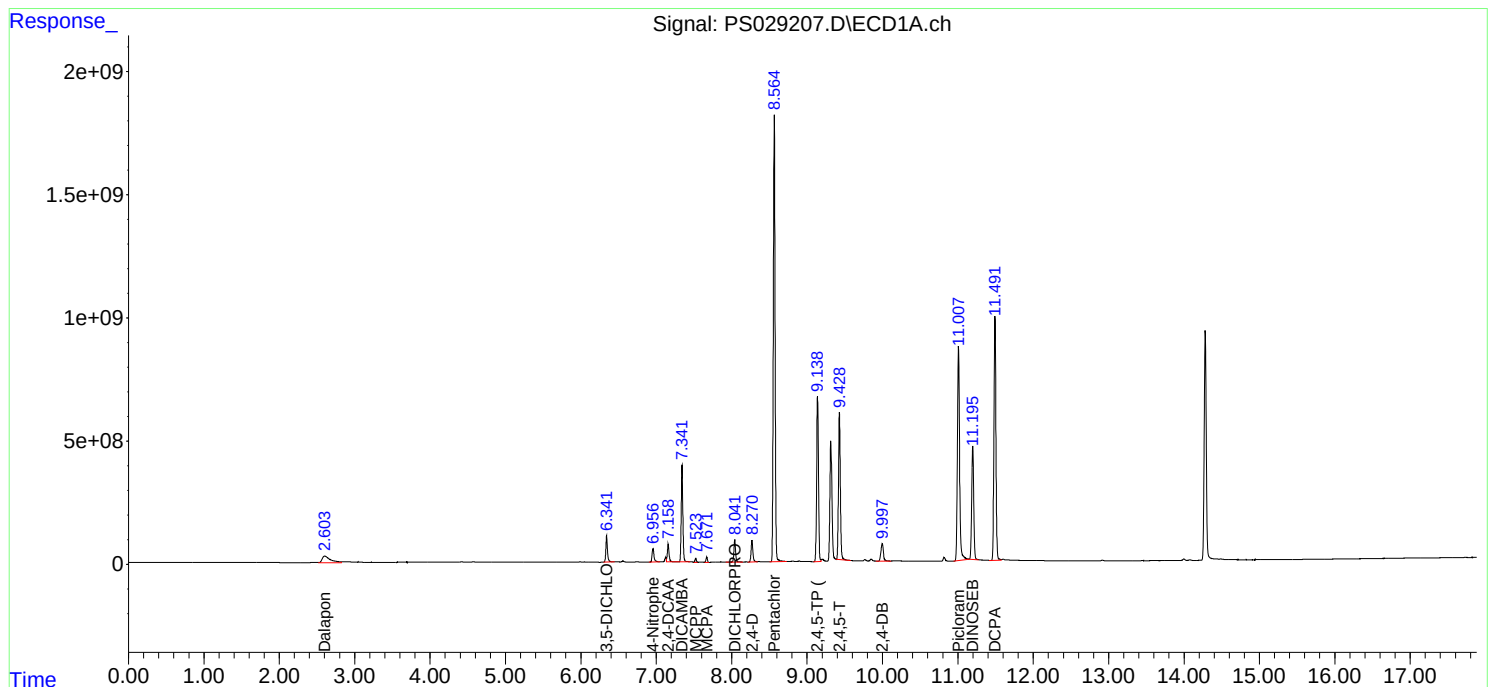
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

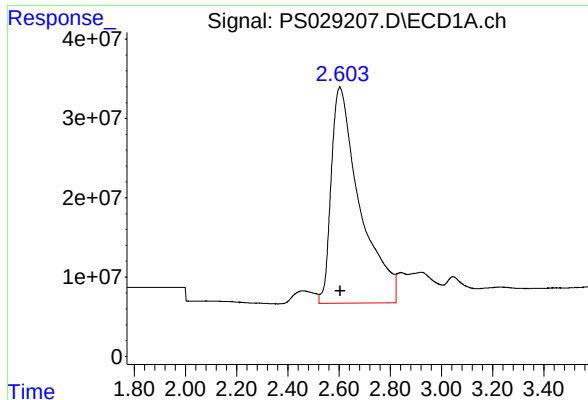
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029207.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 16:45
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:31:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

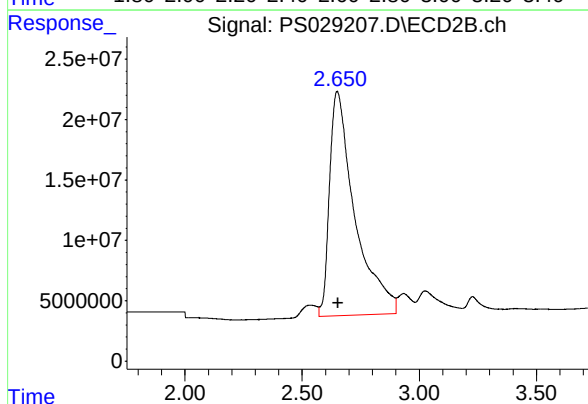




#1 Dalapon

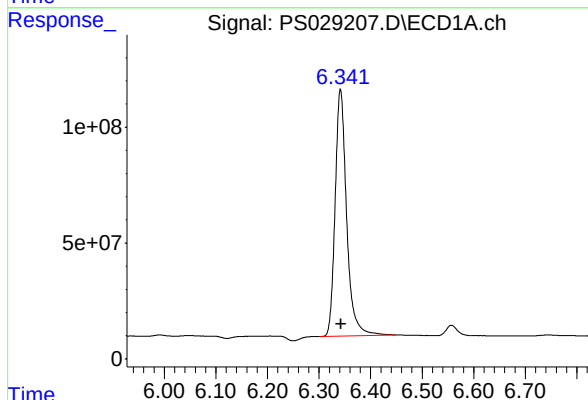
R.T.: 2.603 min
Delta R.T.: -0.001 min
Response: 2111127742
Conc: 642.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



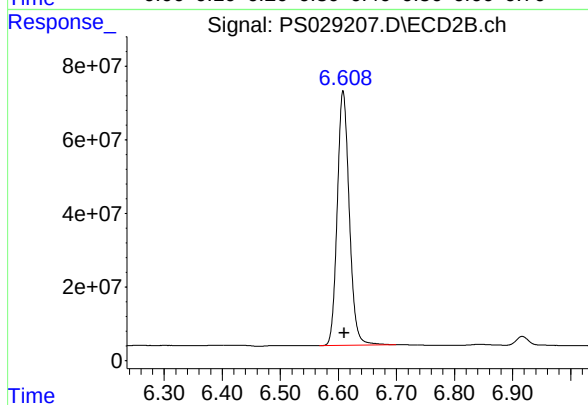
#1 Dalapon

R.T.: 2.650 min
Delta R.T.: -0.003 min
Response: 1394688243
Conc: 656.47 ng/ml



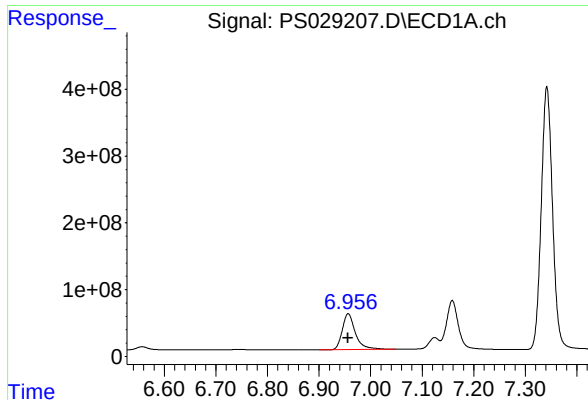
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.342 min
Delta R.T.: 0.000 min
Response: 1646475530
Conc: 661.12 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

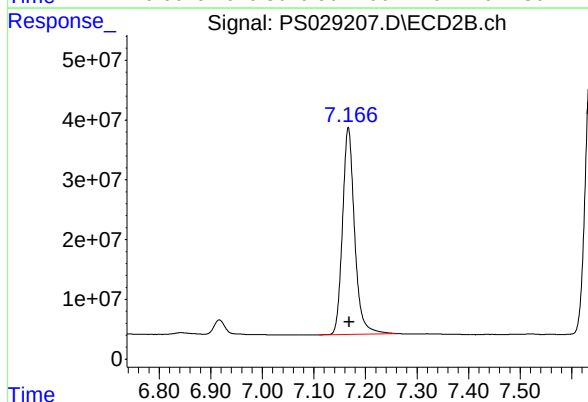
R.T.: 6.608 min
Delta R.T.: -0.002 min
Response: 992330293
Conc: 681.56 ng/ml



#3 4-Nitrophenol

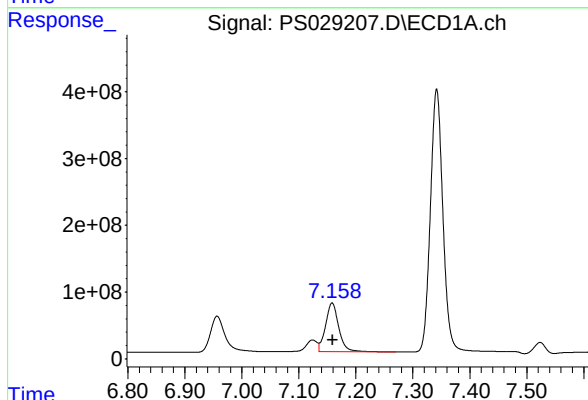
R.T.: 6.957 min
Delta R.T.: 0.000 min
Response: 946597842
Conc: 660.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



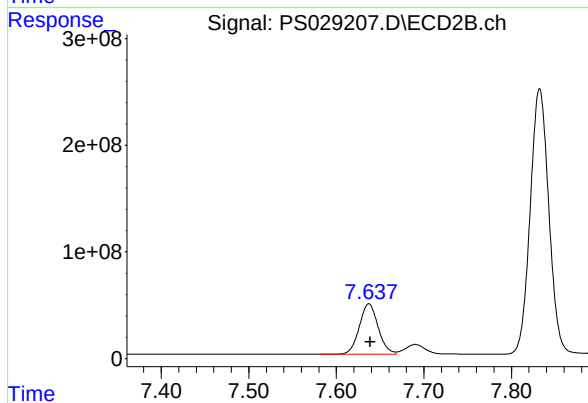
#3 4-Nitrophenol

R.T.: 7.167 min
Delta R.T.: -0.002 min
Response: 564312014
Conc: 658.95 ng/ml



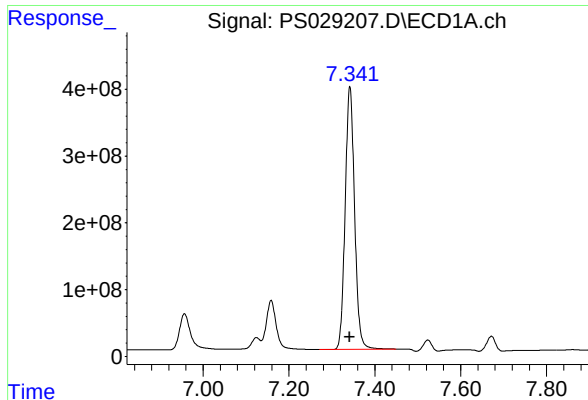
#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: 0.000 min
Response: 1181106851
Conc: 708.71 ng/ml



#4 2,4-DCAA

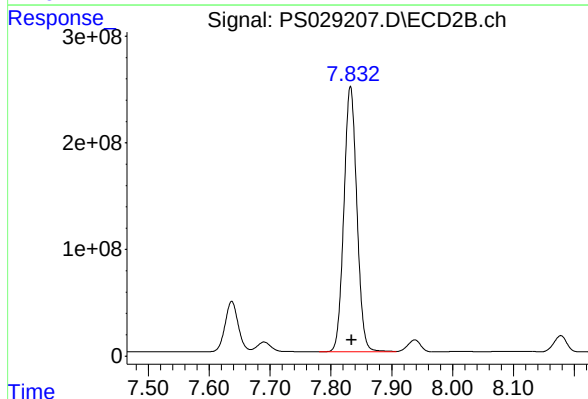
R.T.: 7.637 min
Delta R.T.: -0.002 min
Response: 705703996
Conc: 729.43 ng/ml



#5 DICAMBA

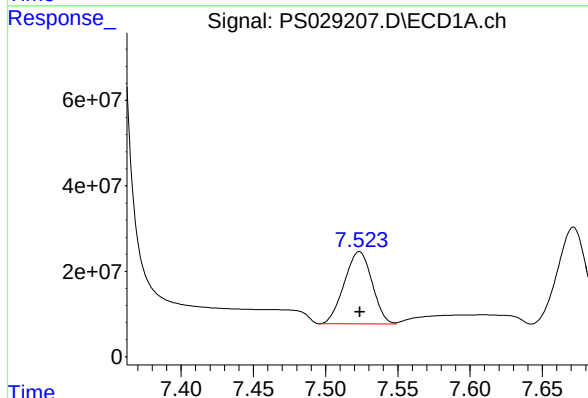
R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 5981596964
Conc: 681.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



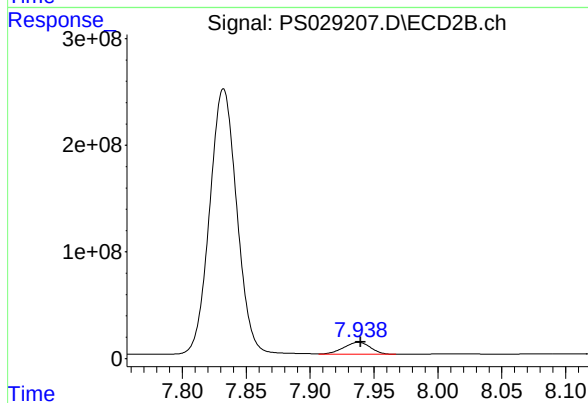
#5 DICAMBA

R.T.: 7.832 min
Delta R.T.: -0.002 min
Response: 3689466073
Conc: 698.37 ng/ml



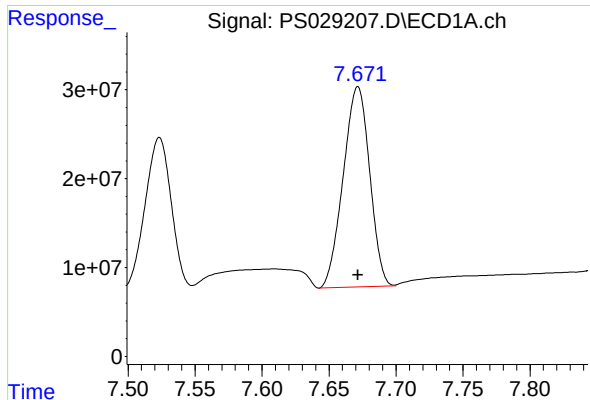
#6 MCPP

R.T.: 7.523 min
Delta R.T.: 0.000 min
Response: 226063751
Conc: 71.71 ug/ml



#6 MCPP

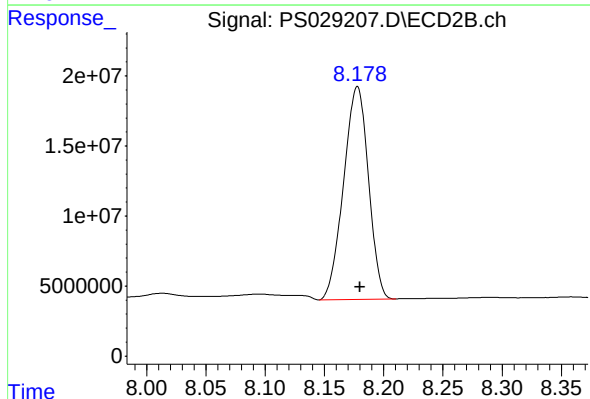
R.T.: 7.938 min
Delta R.T.: -0.002 min
Response: 163550725
Conc: 71.69 ug/ml



#7 MCPA

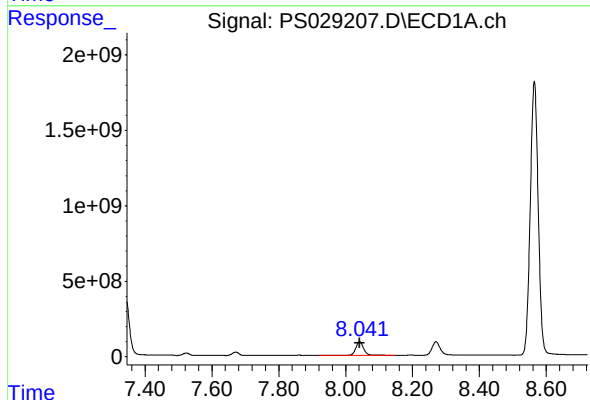
R.T.: 7.671 min
Delta R.T.: 0.000 min
Response: 308967147
Conc: 68.83 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



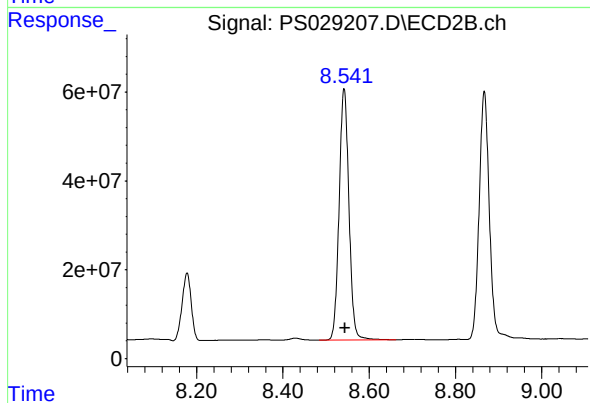
#7 MCPA

R.T.: 8.178 min
Delta R.T.: -0.002 min
Response: 221888571
Conc: 70.40 ug/ml



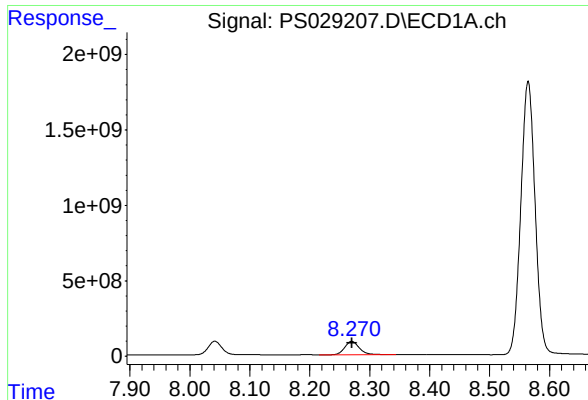
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 1469116139
Conc: 658.44 ng/ml



#8 DICHLORPROP

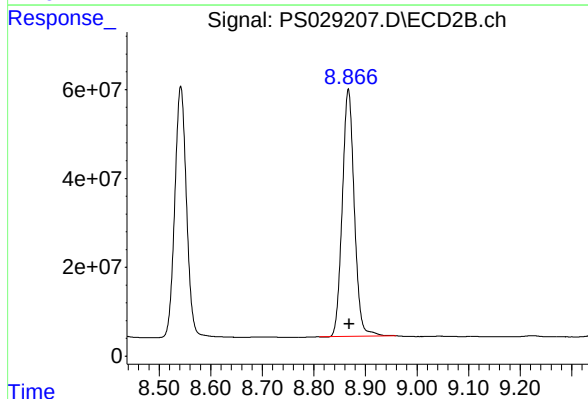
R.T.: 8.542 min
Delta R.T.: -0.002 min
Response: 893681163
Conc: 681.97 ng/ml



#9 2,4-D

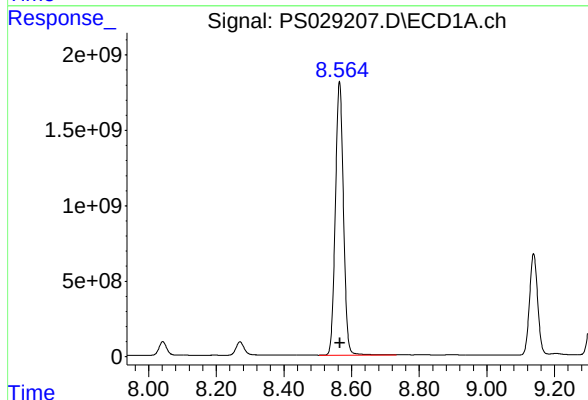
R.T.: 8.270 min
Delta R.T.: 0.000 min
Response: 1510633961
Conc: 664.58 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



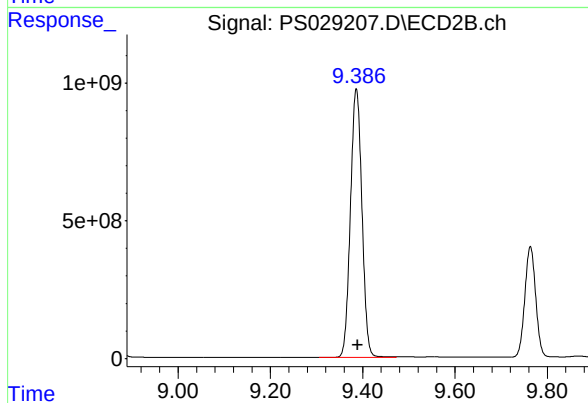
#9 2,4-D

R.T.: 8.867 min
Delta R.T.: -0.002 min
Response: 901890890
Conc: 687.53 ng/ml



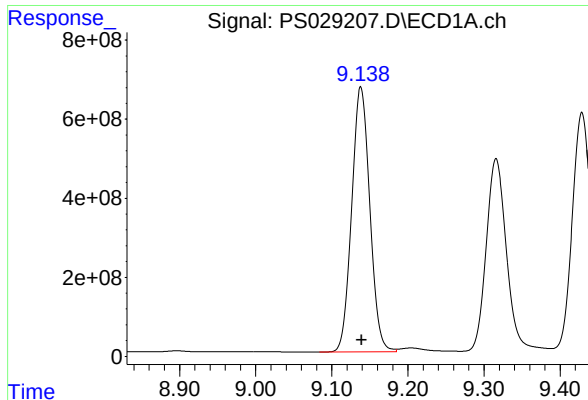
#10 Pentachlorophenol

R.T.: 8.564 min
Delta R.T.: 0.000 min
Response: 30038599434
Conc: 721.51 ng/ml



#10 Pentachlorophenol

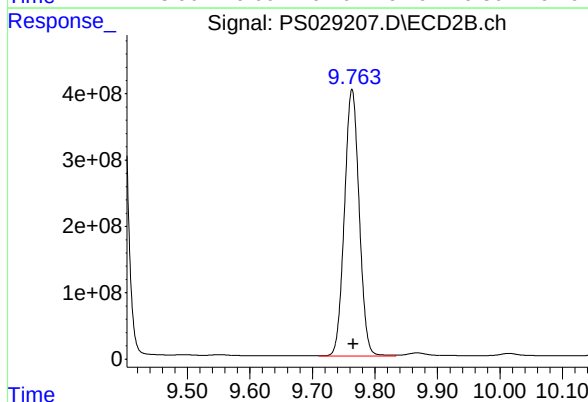
R.T.: 9.386 min
Delta R.T.: -0.002 min
Response: 16815044175
Conc: 706.77 ng/ml



#11 2,4,5-TP (SILVEX)

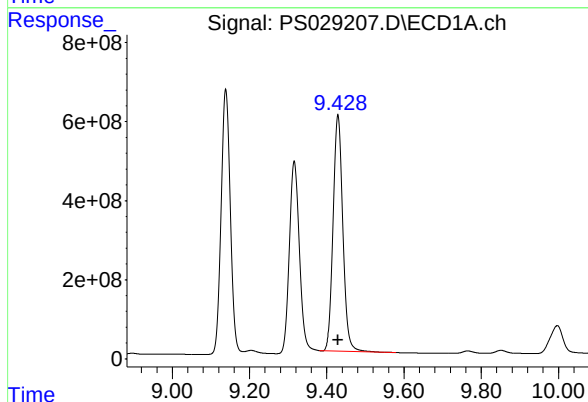
R.T.: 9.138 min
Delta R.T.: -0.001 min
Response: 11135585494
Conc: 690.58 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



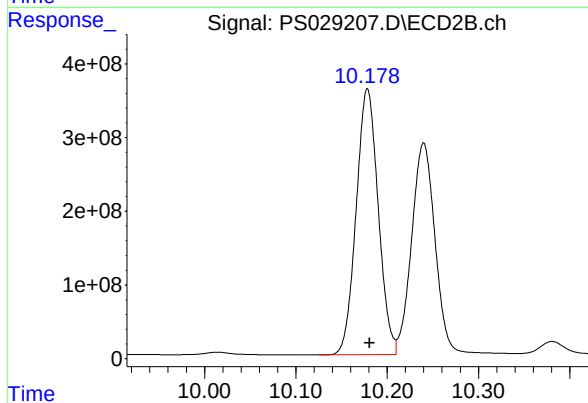
#11 2,4,5-TP (SILVEX)

R.T.: 9.763 min
Delta R.T.: -0.002 min
Response: 6594384627
Conc: 703.29 ng/ml



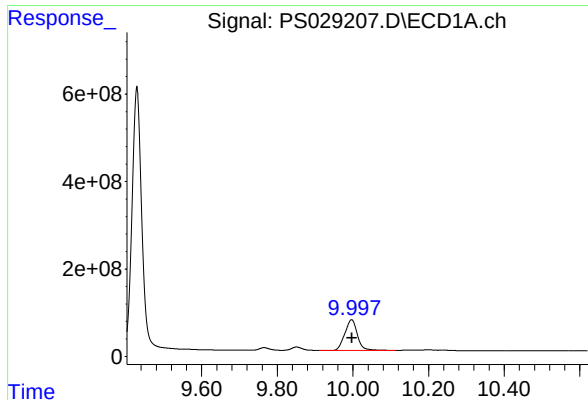
#12 2,4,5-T

R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 10482234607
Conc: 688.59 ng/ml



#12 2,4,5-T

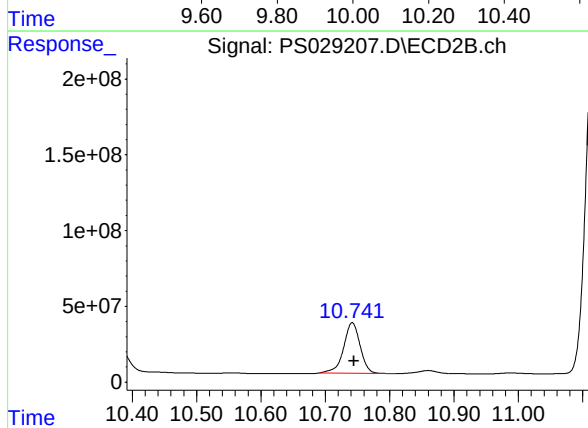
R.T.: 10.178 min
Delta R.T.: -0.002 min
Response: 6060062678
Conc: 700.30 ng/ml



#13 2,4-DB

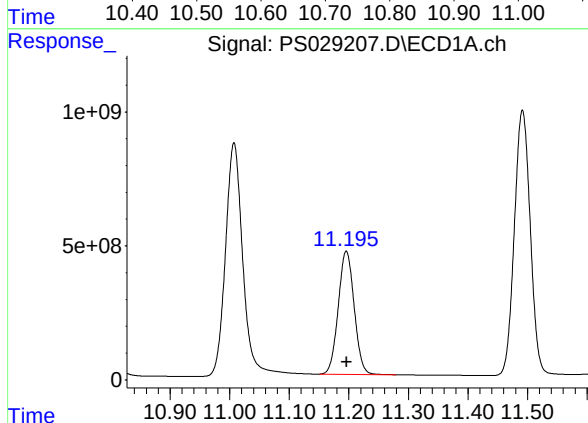
R.T.: 9.997 min
Delta R.T.: 0.000 min
Response: 1617667872
Conc: 669.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



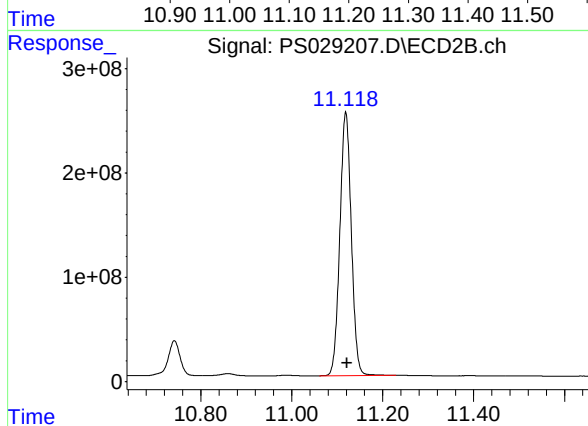
#13 2,4-DB

R.T.: 10.742 min
Delta R.T.: -0.003 min
Response: 594687445
Conc: 695.46 ng/ml



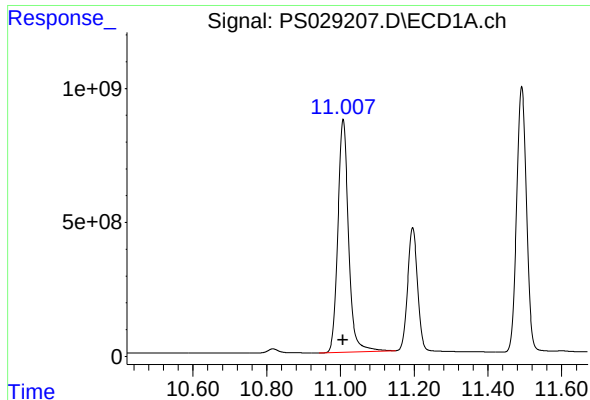
#14 DINOSEB

R.T.: 11.196 min
Delta R.T.: 0.000 min
Response: 8536895051
Conc: 671.89 ng/ml



#14 DINOSEB

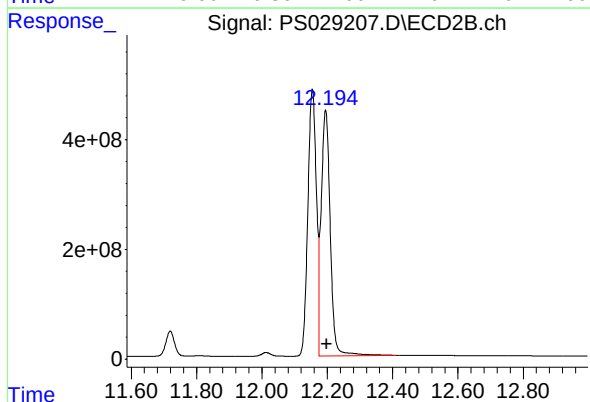
R.T.: 11.119 min
Delta R.T.: -0.003 min
Response: 4414241429
Conc: 681.67 ng/ml



#15 Picloram

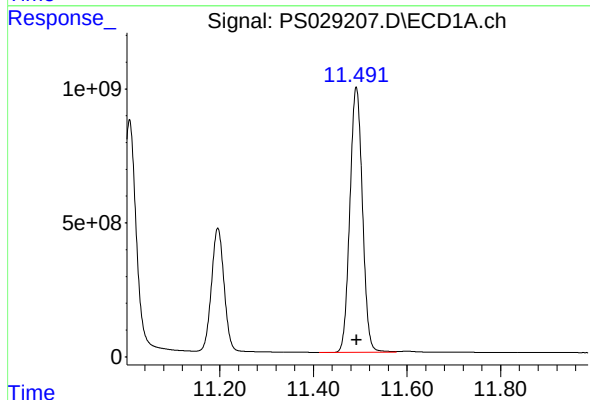
R.T.: 11.007 min
Delta R.T.: 0.000 min
Response: 17504384416
Conc: 669.81 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



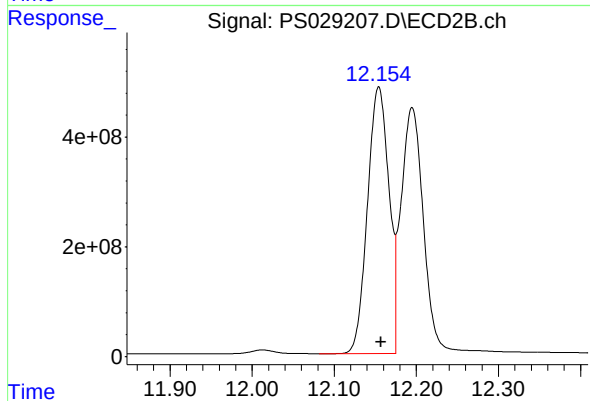
#15 Picloram

R.T.: 12.195 min
Delta R.T.: -0.003 min
Response: 8611614048
Conc: 686.72 ng/ml



#16 DCPA

R.T.: 11.492 min
Delta R.T.: 0.000 min
Response: 18419016665
Conc: 704.23 ng/ml



#16 DCPA

R.T.: 12.154 min
Delta R.T.: -0.002 min
Response: 8832221701
Conc: 711.01 ng/ml



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

Continuing Calib Date: 02/19/2025 Initial Calibration Date(s): 02/19/2025 02/19/2025

Continuing Calib Time: 21:33 Initial Calibration Time(s): 10:21 11:57

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.34	7.34	7.24	7.44	0.00
2,4-DCAA	7.16	7.16	7.06	7.26	0.00
Dalapon	2.61	2.60	2.50	2.70	-0.01
DICHLORPROP	8.04	8.04	7.94	8.14	0.00
2,4-D	8.27	8.27	8.17	8.37	0.00
2,4,5-TP(Silvex)	9.14	9.14	9.04	9.24	0.00
2,4,5-T	9.43	9.43	9.33	9.53	0.00
2,4-DB	10.00	10.00	9.90	10.10	0.00
Dinoseb	11.20	11.20	11.10	11.30	0.01



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

Continuing Calib Date: 02/19/2025 Initial Calibration Date(s): 02/19/2025 02/19/2025

Continuing Calib Time: 21:33 Initial Calibration Time(s): 10:21 11:57

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.83	7.83	7.73	7.93	0.00
2,4-DCAA	7.64	7.64	7.54	7.74	0.00
Dalapon	2.65	2.65	2.55	2.75	0.00
DICHLORPROP	8.54	8.54	8.44	8.64	0.00
2,4-D	8.87	8.87	8.77	8.97	0.00
2,4,5-TP(Silvex)	9.76	9.77	9.67	9.87	0.01
2,4,5-T	10.18	10.18	10.08	10.28	0.00
2,4-DB	10.74	10.75	10.65	10.85	0.01
Dinoseb	11.12	11.12	11.02	11.22	0.00



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 02/19/2025 02/19/2025

Client Sample No.: CCAL02 Date Analyzed: 02/19/2025

Lab Sample No.: HSTDCCC750 Data File : PS029219.D Time Analyzed: 21:33

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.428	9.329	9.529	653.740	712.500	-8.2
2,4,5-TP(Silvex)	9.138	9.039	9.239	658.510	712.500	-7.6
2,4-D	8.270	8.170	8.370	613.270	705.000	-13.0
2,4-DB	9.997	9.898	10.098	610.610	712.500	-14.3
2,4-DCAA	7.158	7.059	7.259	638.970	750.000	-14.8
Dalapon	2.605	2.504	2.704	611.430	682.500	-10.4
DICAMBA	7.341	7.242	7.442	637.490	705.000	-9.6
DICHLORPROP	8.041	7.942	8.142	604.590	705.000	-14.2
Dinoseb	11.195	11.097	11.297	631.960	705.000	-10.4



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/19/2025 02/19/2025

Client Sample No.: CCAL02 Date Analyzed: 02/19/2025

Lab Sample No.: HSTDCCC750 Data File : PS029219.D Time Analyzed: 21:33

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.177	10.081	10.281	691.270	712.500	-3.0
2,4,5-TP(Silvex)	9.762	9.666	9.866	697.420	712.500	-2.1
2,4-D	8.866	8.769	8.969	678.860	705.000	-3.7
2,4-DB	10.740	10.645	10.845	678.560	712.500	-4.8
2,4-DCAA	7.636	7.539	7.739	722.690	750.000	-3.6
Dalapon	2.650	2.553	2.753	650.540	682.500	-4.7
DICAMBA	7.831	7.734	7.934	692.790	705.000	-1.7
DICHLORPROP	8.541	8.444	8.644	679.640	705.000	-3.6
Dinoseb	11.117	11.021	11.221	669.930	705.000	-5.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029219.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 21:33
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 02/20/2025

Supervised By :Ankita Jodhani 02/20/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:36:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.158	7.636	1064.9E6	699.2E6	638.971	722.694
Target Compounds							
1) T	Dalapon	2.605	2.650	2010.1E6	1382.1E6	611.435	650.539
2) T	3,5-DICHL...	6.341	6.607	1509.0E6	981.8E6	605.931	674.298
3) T	4-Nitroph...	6.957	7.166	921.0E6	554.8E6	642.309	647.833
5) T	DICAMBA	7.341	7.831	5593.9E6	3660.0E6	637.488	692.786
6) T	MCPD	7.523	7.937	196.3E6	161.9E6	62.276	70.974
7) T	MCPA	7.671	8.177	268.6E6	219.4E6	59.842	69.622
8) T	DICHLORPROP	8.041	8.541	1349.0E6	890.6E6	604.590m	679.639
9) T	2,4-D	8.270	8.866	1394.0E6	890.5E6	613.266	678.860
10) T	Pentachlo...	8.564	9.385	28932.0E6	16689.6E6	694.928	701.493
11) T	2,4,5-TP ...	9.138	9.762	10618.4E6	6539.3E6	658.508	697.421
12) T	2,4,5-T	9.428	10.177	9951.7E6	5981.9E6	653.737	691.270
13) T	2,4-DB	9.997	10.740	1475.9E6	580.2E6	610.610	678.556
14) T	DINOSEB	11.195	11.117	8029.6E6	4338.2E6	631.965	669.933
15) T	Picloram	11.007	12.193	16548.9E6	8334.6E6	633.253	664.631
16) T	DCPA	11.491	12.152	17844.2E6	8763.3E6	682.254	705.463

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029219.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 21:33
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

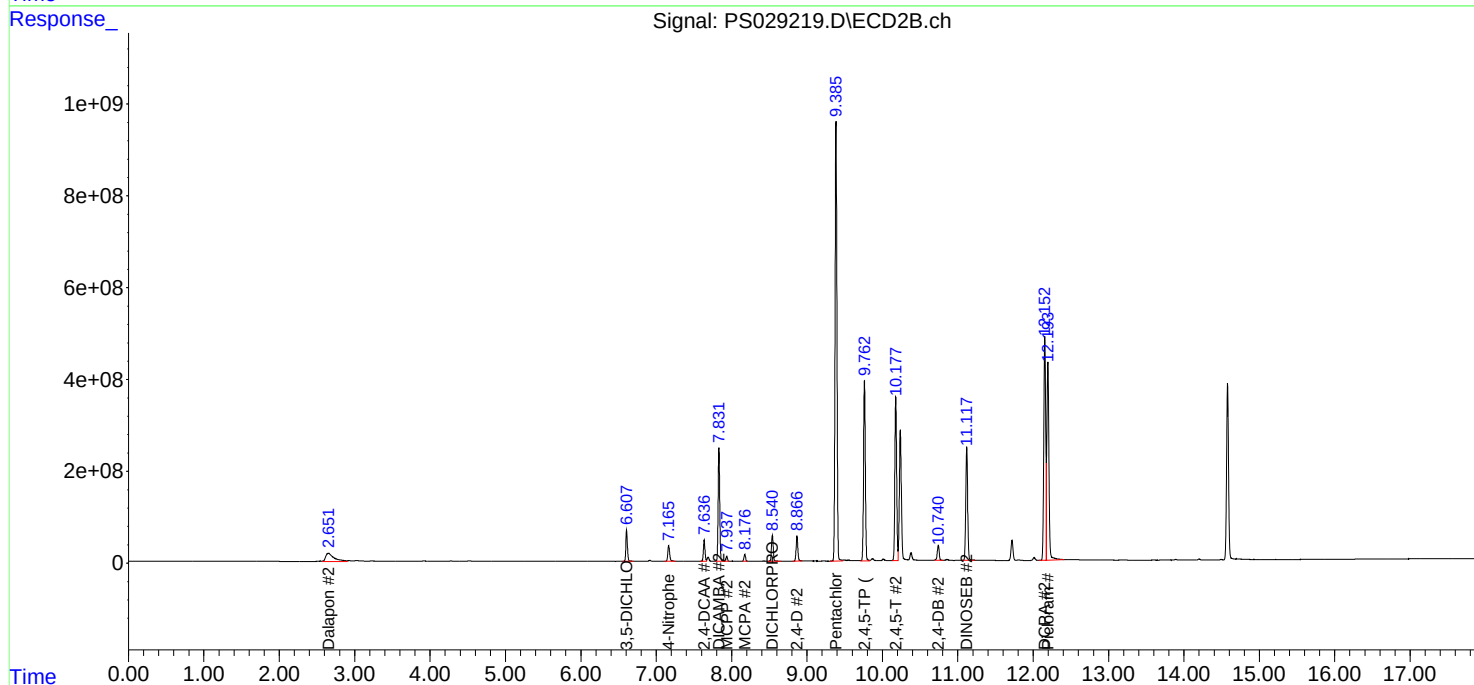
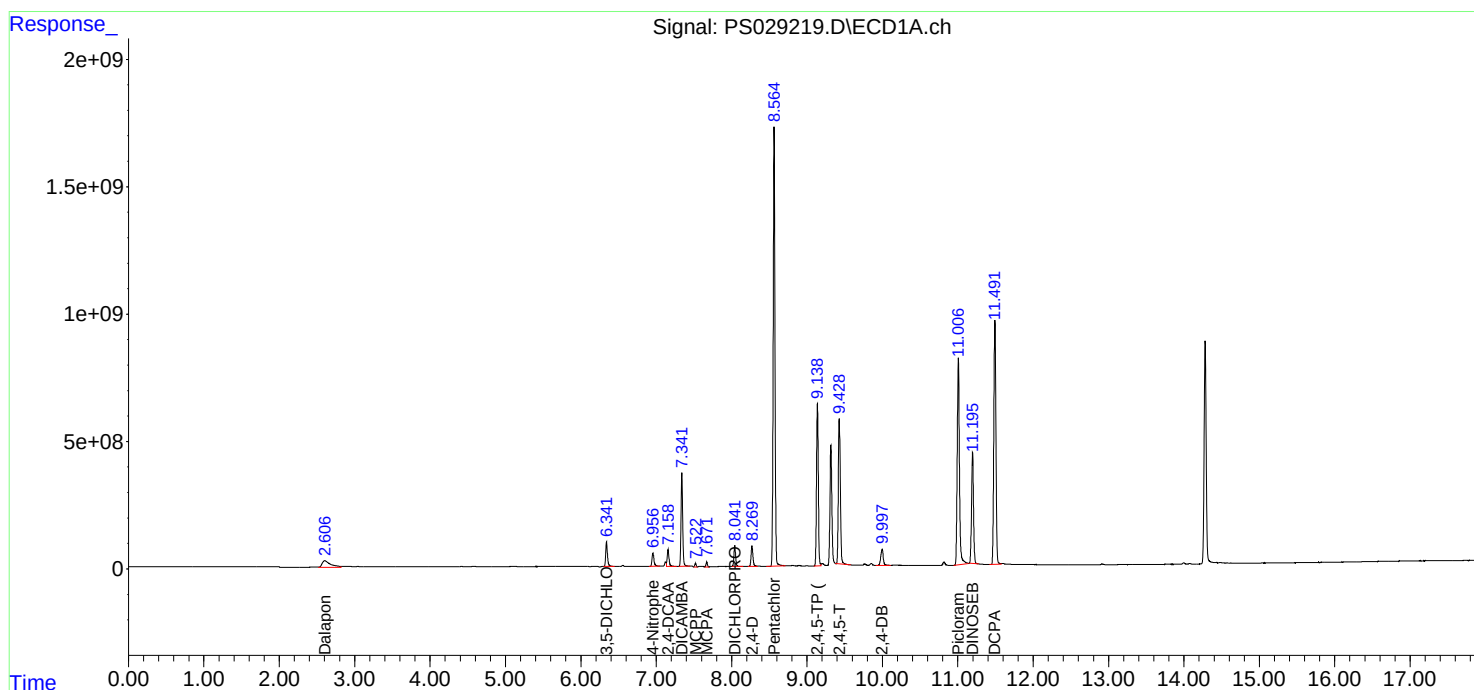
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

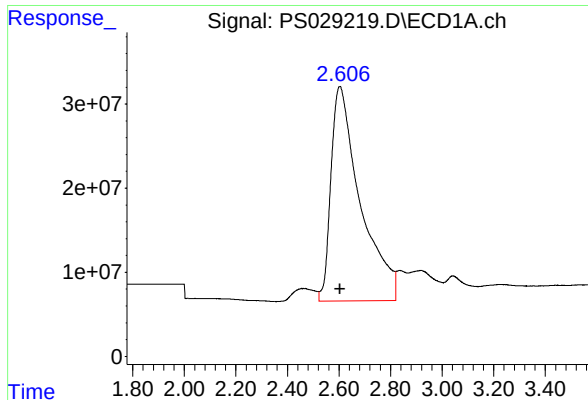
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 02/20/2025
Supervised By : Ankita Jodhani 02/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:36:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





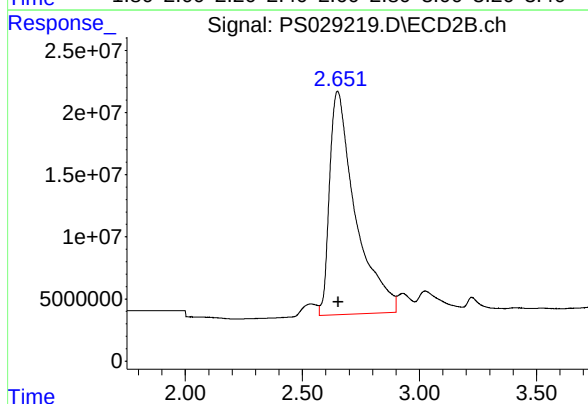
#1 Dalapon

R.T.: 2.605 min
Delta R.T.: 0.000 min
Response: 2010085449
Conc: 611.43 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

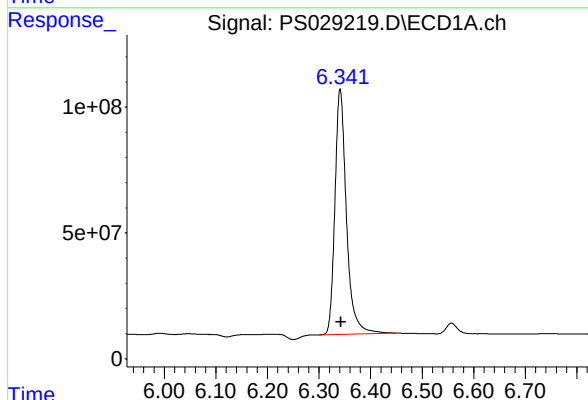
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



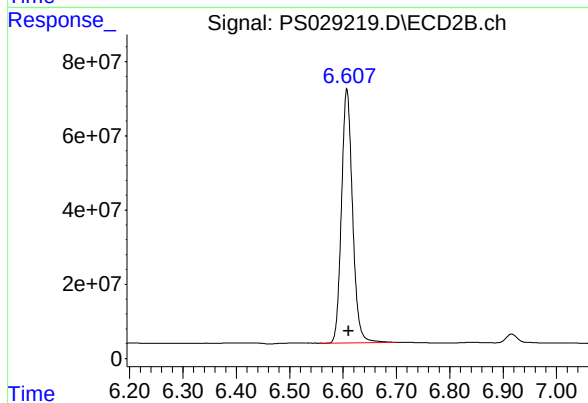
#1 Dalapon

R.T.: 2.650 min
Delta R.T.: -0.003 min
Response: 1382079852
Conc: 650.54 ng/ml



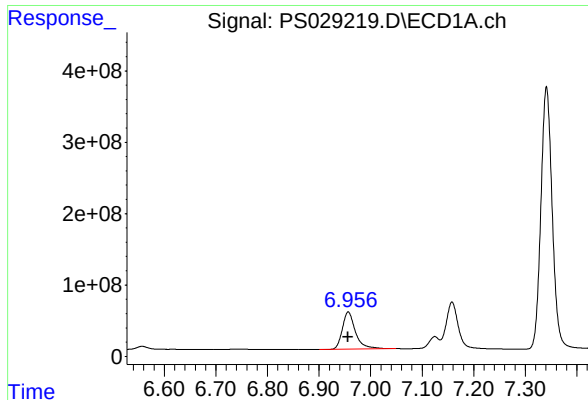
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.341 min
Delta R.T.: -0.001 min
Response: 1509035634
Conc: 605.93 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.607 min
Delta R.T.: -0.003 min
Response: 981751881
Conc: 674.30 ng/ml



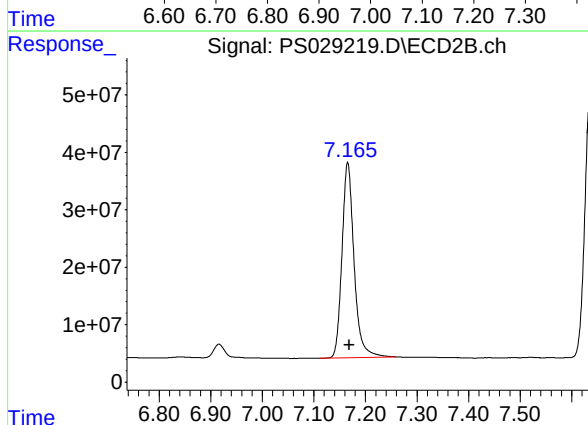
#3 4-Nitrophenol

R.T.: 6.957 min
Delta R.T.: 0.000 min
Response: 920979088
Conc: 642.31 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

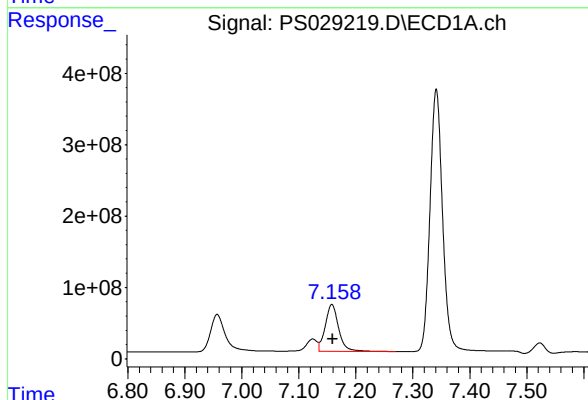
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



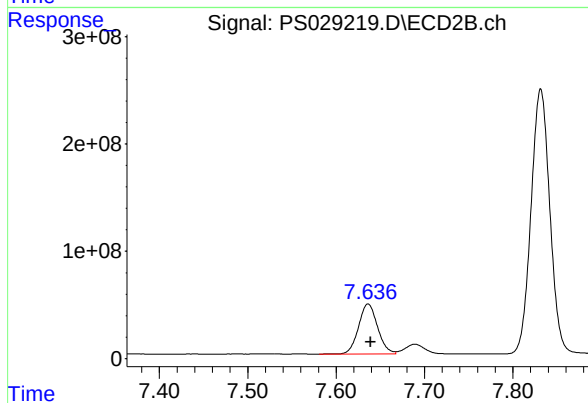
#3 4-Nitrophenol

R.T.: 7.166 min
Delta R.T.: -0.003 min
Response: 554789657
Conc: 647.83 ng/ml



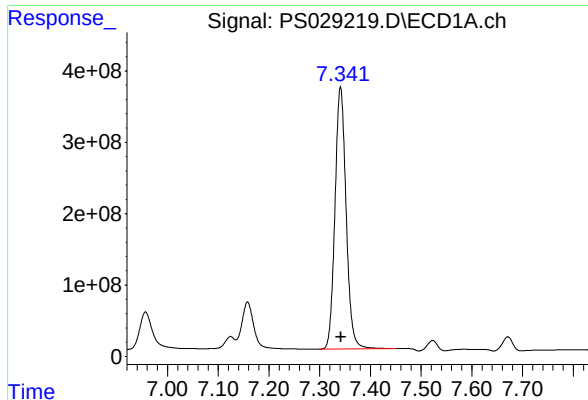
#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: 0.000 min
Response: 1064882158
Conc: 638.97 ng/ml



#4 2,4-DCAA

R.T.: 7.636 min
Delta R.T.: -0.003 min
Response: 699184734
Conc: 722.69 ng/ml



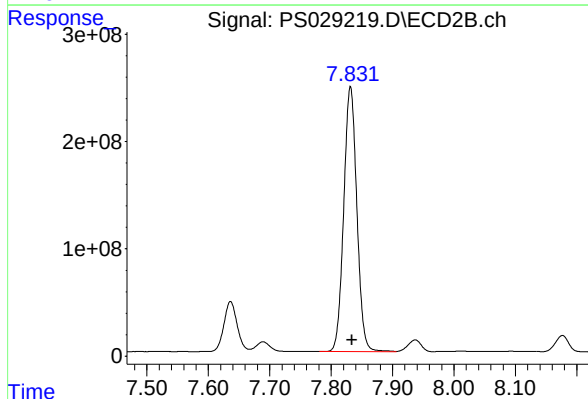
#5 DICAMBA

R.T.: 7.341 min
Delta R.T.: 0.000 min
Response: 5593930674
Conc: 637.49 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

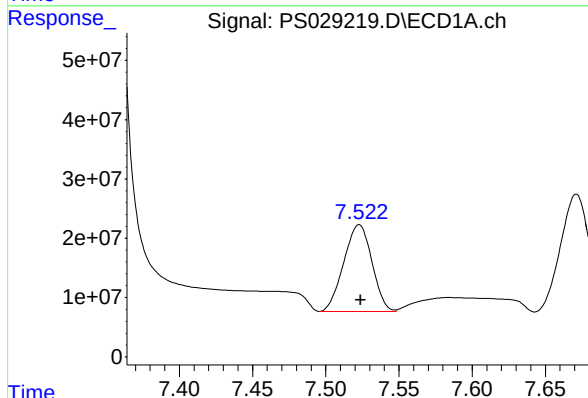
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



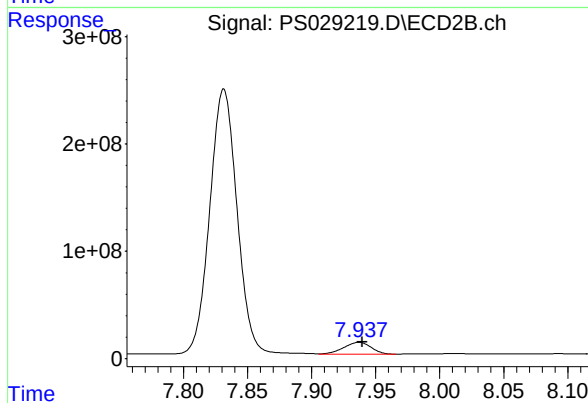
#5 DICAMBA

R.T.: 7.831 min
Delta R.T.: -0.003 min
Response: 3659973639
Conc: 692.79 ng/ml



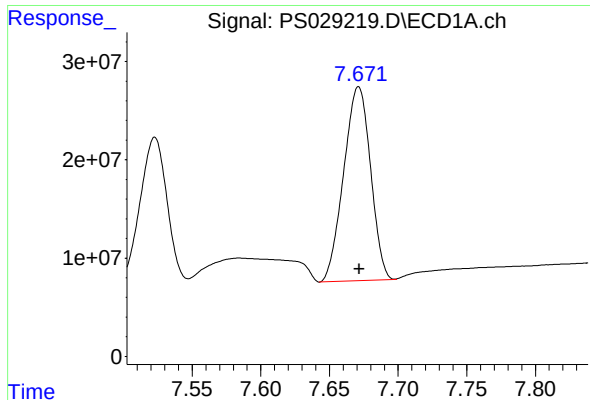
#6 MCPP

R.T.: 7.523 min
Delta R.T.: -0.001 min
Response: 196320683
Conc: 62.28 ug/ml



#6 MCPP

R.T.: 7.937 min
Delta R.T.: -0.003 min
Response: 161919469
Conc: 70.97 ug/ml



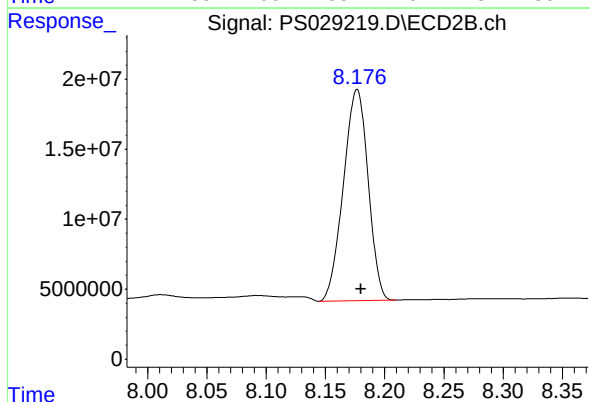
#7 MCPA

R.T.: 7.671 min
Delta R.T.: 0.000 min
Response: 268612362
Conc: 59.84 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

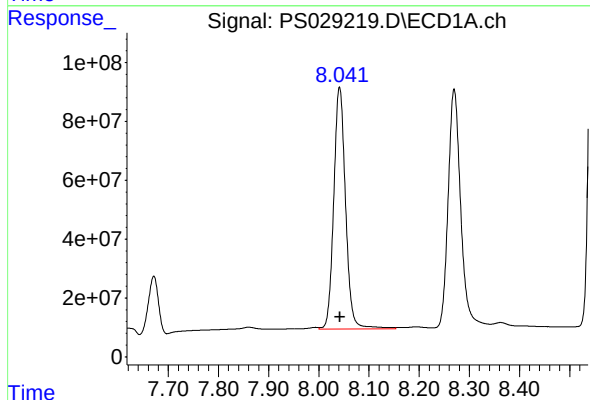
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



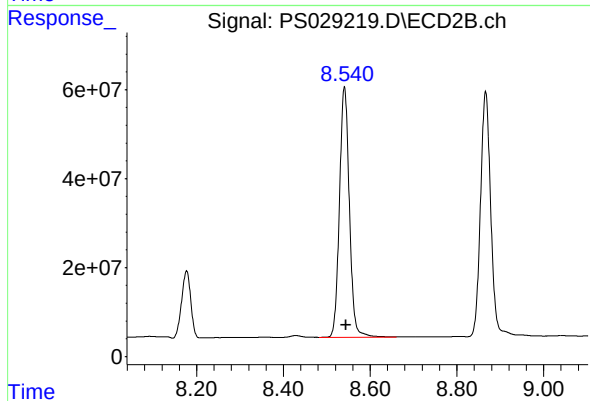
#7 MCPA

R.T.: 8.177 min
Delta R.T.: -0.003 min
Response: 219427898
Conc: 69.62 ug/ml



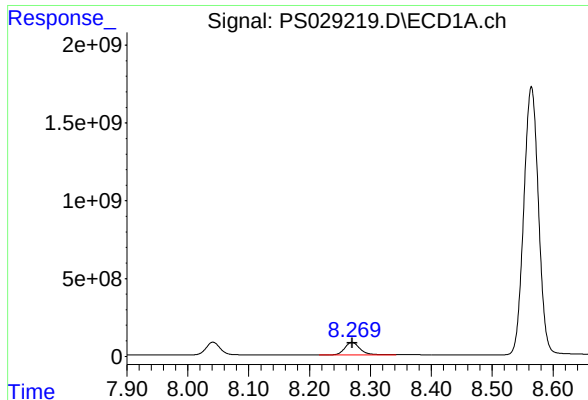
#8 DICHLORPROP

R.T.: 8.041 min
Delta R.T.: -0.001 min
Response: 1348960410
Conc: 604.59 ng/ml m



#8 DICHLORPROP

R.T.: 8.541 min
Delta R.T.: -0.003 min
Response: 890620954
Conc: 679.64 ng/ml



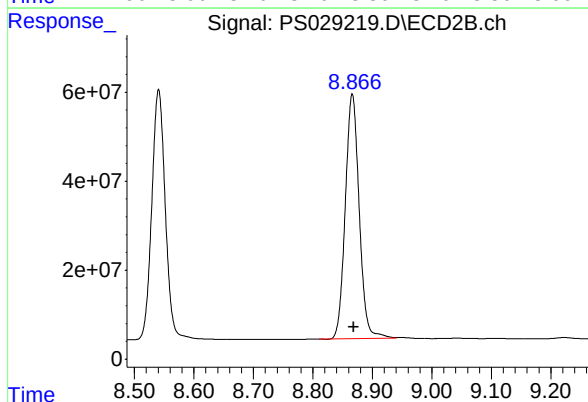
#9 2,4-D

R.T.: 8.270 min
Delta R.T.: 0.000 min
Response: 1393995423
Conc: 613.27 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

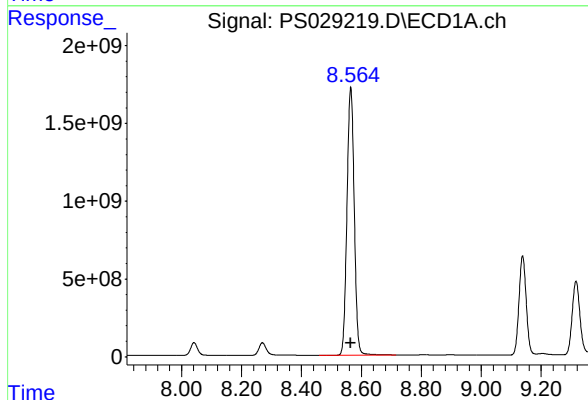
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



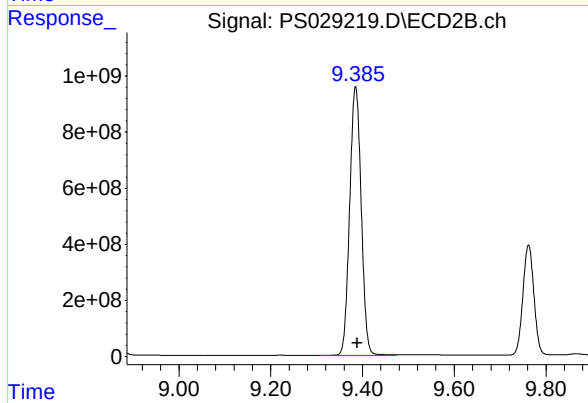
#9 2,4-D

R.T.: 8.866 min
Delta R.T.: -0.002 min
Response: 890518242
Conc: 678.86 ng/ml



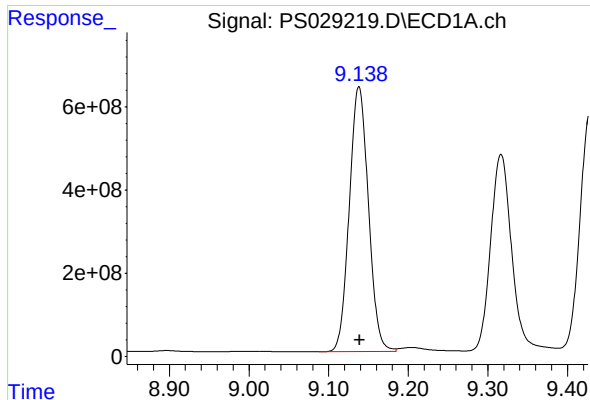
#10 Pentachlorophenol

R.T.: 8.564 min
Delta R.T.: 0.000 min
Response: 28931955858
Conc: 694.93 ng/ml



#10 Pentachlorophenol

R.T.: 9.385 min
Delta R.T.: -0.004 min
Response: 16689607341
Conc: 701.49 ng/ml



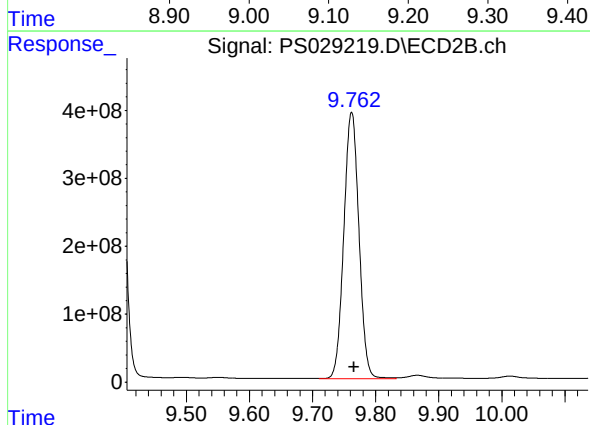
#11 2,4,5-TP (SILVEX)

R.T.: 9.138 min
Delta R.T.: -0.001 min
Response: 10618360241
Conc: 658.51 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

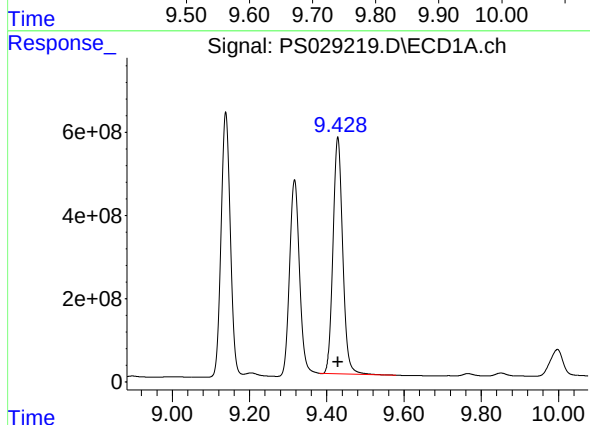
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



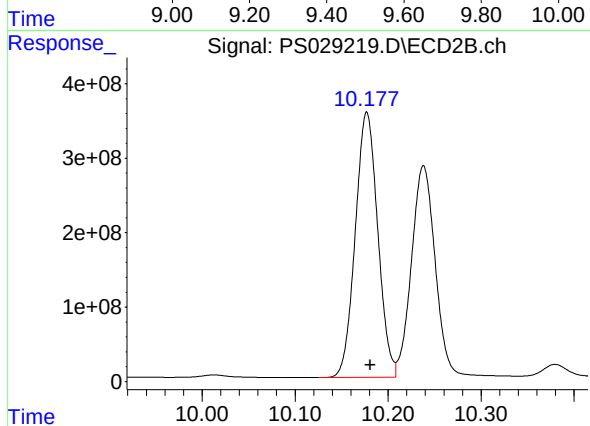
#11 2,4,5-TP (SILVEX)

R.T.: 9.762 min
Delta R.T.: -0.004 min
Response: 6539326539
Conc: 697.42 ng/ml



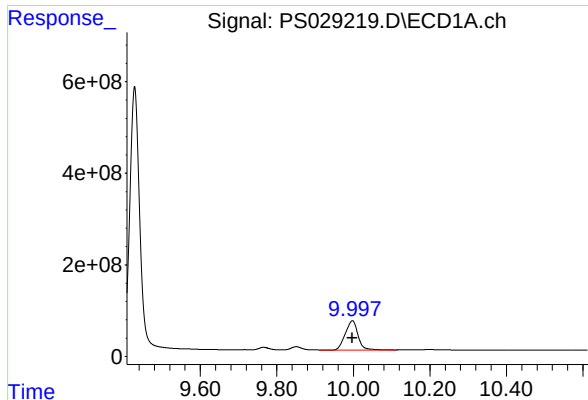
#12 2,4,5-T

R.T.: 9.428 min
Delta R.T.: 0.000 min
Response: 9951705775
Conc: 653.74 ng/ml



#12 2,4,5-T

R.T.: 10.177 min
Delta R.T.: -0.004 min
Response: 5981904548
Conc: 691.27 ng/ml



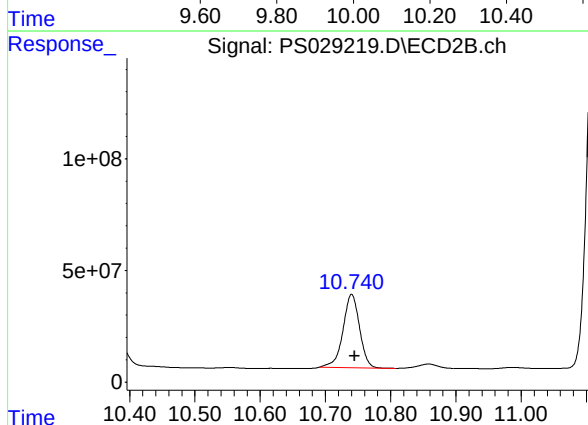
#13 2,4-DB

R.T.: 9.997 min
Delta R.T.: 0.000 min
Response: 1475896009
Conc: 610.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

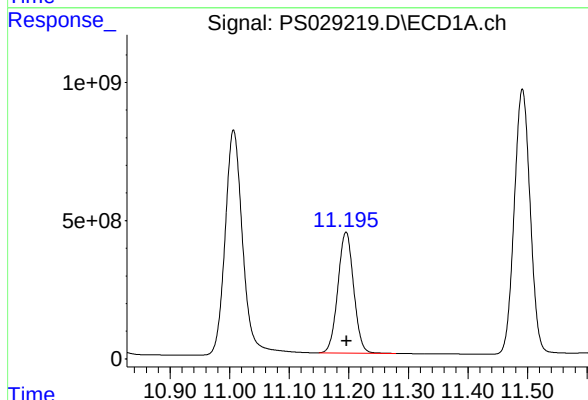
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



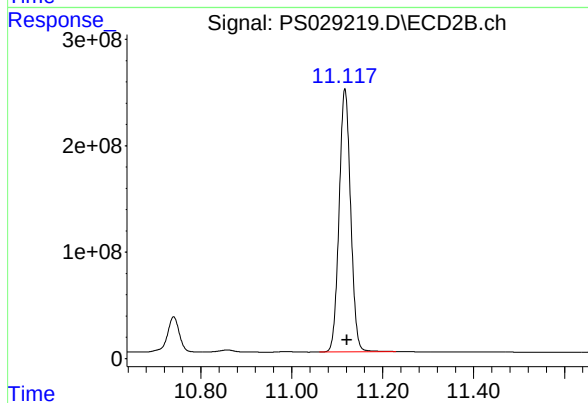
#13 2,4-DB

R.T.: 10.740 min
Delta R.T.: -0.004 min
Response: 580236561
Conc: 678.56 ng/ml



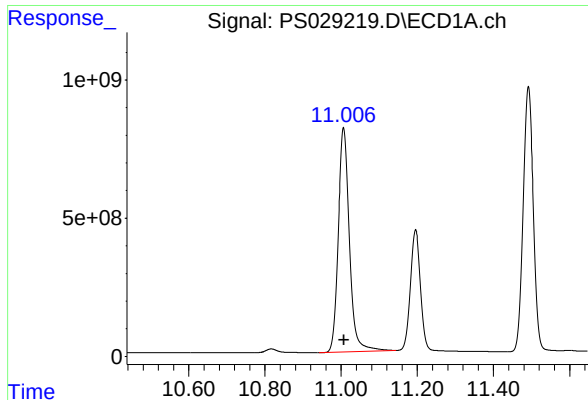
#14 DINOSEB

R.T.: 11.195 min
Delta R.T.: -0.001 min
Response: 8029649001
Conc: 631.96 ng/ml



#14 DINOSEB

R.T.: 11.117 min
Delta R.T.: -0.004 min
Response: 4338231555
Conc: 669.93 ng/ml



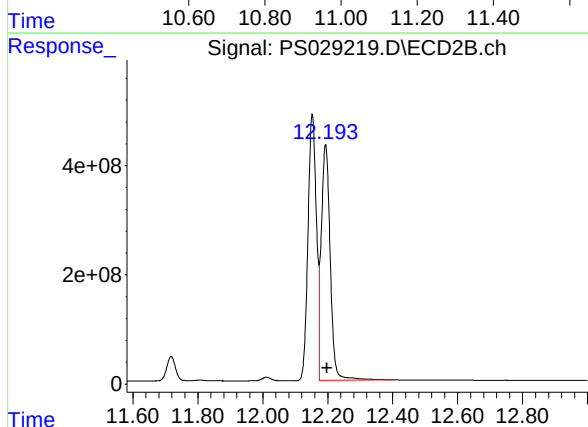
#15 Picloram

R.T.: 11.007 min
Delta R.T.: 0.000 min
Response: 16548914677
Conc: 633.25 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

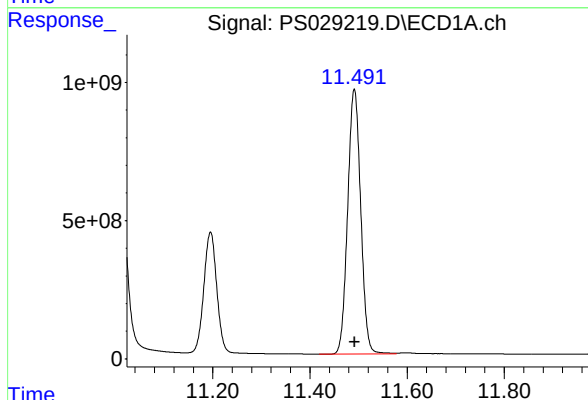
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



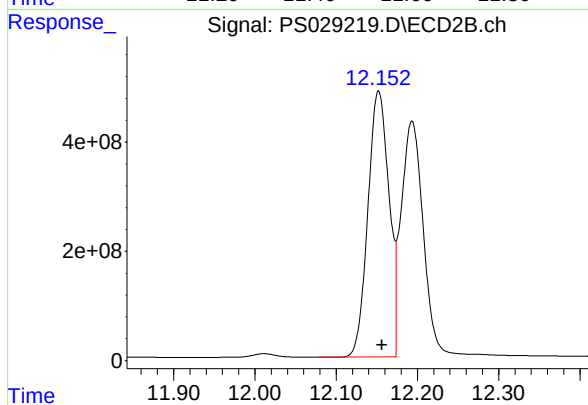
#15 Picloram

R.T.: 12.193 min
Delta R.T.: -0.005 min
Response: 8334625374
Conc: 664.63 ng/ml



#16 DCPA

R.T.: 11.491 min
Delta R.T.: 0.000 min
Response: 17844184642
Conc: 682.25 ng/ml



#16 DCPA

R.T.: 12.152 min
Delta R.T.: -0.005 min
Response: 8763342017
Conc: 705.46 ng/ml



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

Continuing Calib Date: 02/26/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 12:55 Initial Calibration Time(s): 19:56 21:32

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.35	7.34	7.24	7.44	0.00
2,4-DCAA	7.16	7.16	7.06	7.26	0.00
Dalapon	2.60	2.60	2.50	2.70	0.00
DICHLORPROP	8.04	8.04	7.94	8.14	0.00
2,4-D	8.27	8.27	8.17	8.37	0.00
2,4,5-TP(Silvex)	9.14	9.14	9.04	9.24	0.00
2,4,5-T	9.43	9.43	9.33	9.53	0.00
2,4-DB	10.00	10.00	9.90	10.10	0.00
Dinoseb	11.20	11.19	11.09	11.29	-0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

Continuing Calib Date: 02/26/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 12:55 Initial Calibration Time(s): 19:56 21:32

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.82	7.83	7.73	7.93	0.01
2,4-DCAA	7.62	7.63	7.53	7.73	0.01
Dalapon	2.64	2.65	2.55	2.75	0.01
DICHLORPROP	8.53	8.54	8.44	8.64	0.01
2,4-D	8.85	8.86	8.76	8.96	0.01
2,4,5-TP(Silvex)	9.75	9.76	9.66	9.86	0.01
2,4,5-T	10.16	10.17	10.07	10.27	0.01
2,4-DB	10.72	10.73	10.63	10.83	0.01
Dinoseb	11.10	11.11	11.01	11.21	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL03 Date Analyzed: 02/26/2025

Lab Sample No.: HSTDCCC750 Data File : PS029291.D Time Analyzed: 12:55

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.432	9.329	9.529	761.190	712.500	6.8
2,4,5-TP(Silvex)	9.141	9.038	9.238	770.220	712.500	8.1
2,4-D	8.274	8.171	8.371	753.460	705.000	6.9
2,4-DB	10.001	9.898	10.098	781.280	712.500	9.7
2,4-DCAA	7.161	7.060	7.260	800.590	750.000	6.7
Dalapon	2.600	2.500	2.700	717.500	682.500	5.1
DICAMBA	7.345	7.243	7.443	765.710	705.000	8.6
DICHLORPROP	8.044	7.942	8.142	740.860	705.000	5.1
Dinoseb	11.199	11.094	11.294	754.060	705.000	7.0



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL03 Date Analyzed: 02/26/2025

Lab Sample No.: HSTDCCC750 Data File : PS029291.D Time Analyzed: 12:55

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.162	10.070	10.270	757.150	712.500	6.3
2,4,5-TP(Silvex)	9.748	9.656	9.856	757.850	712.500	6.4
2,4-D	8.852	8.761	8.961	734.420	705.000	4.2
2,4-DB	10.724	10.634	10.834	780.800	712.500	9.6
2,4-DCAA	7.624	7.532	7.732	771.960	750.000	2.9
Dalapon	2.640	2.551	2.751	675.780	682.500	-1.0
DICAMBA	7.818	7.726	7.926	745.380	705.000	5.7
DICHLORPROP	8.528	8.436	8.636	723.010	705.000	2.6
Dinoseb	11.100	11.009	11.209	737.790	705.000	4.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
 Data File : PS029291.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Feb 2025 12:55
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 27 04:01:04 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.161	7.624	3298.9E6	725.9E6	800.587	771.965
Target Compounds							
1) T	Dalapon	2.600	2.640	3960.8E6	1430.7E6	717.502	675.779
2) T	3,5-DICHL...	6.342	6.596	4472.5E6	1024.1E6	764.386	723.187
3) T	4-Nitroph...	6.959	7.154	1832.6E6	577.0E6	783.092	723.436
5) T	DICAMBA	7.345	7.818	13297.4E6	3840.9E6	765.714	745.385
6) T	MCPD	7.527	7.925	956.0E6	169.1E6	77.563	72.310
7) T	MCPA	7.675	8.165	1281.2E6	231.1E6	75.606	72.442
8) T	DICHLORPROP	8.044	8.528	3405.3E6	924.6E6	740.861	723.008
9) T	2,4-D	8.274	8.852	3579.3E6	932.6E6	753.461	734.422
10) T	Pentachlo...	8.572	9.371	44745.0E6	17421.5E6	766.757	757.039
11) T	2,4,5-TP ...	9.141	9.748	18937.3E6	6848.5E6	770.216	757.849
12) T	2,4,5-T	9.432	10.162	19401.6E6	6216.4E6	761.185	757.147
13) T	2,4-DB	10.001	10.724	3262.2E6	597.8E6	781.282	780.803m
14) T	DINOSEB	11.199	11.100	12540.7E6	4472.1E6	754.065	737.787m
15) T	Picloram	11.010	12.175	23609.8E6	8849.6E6	772.990	765.375
16) T	DCPA	11.495	12.135	23271.5E6	9143.4E6	775.626	772.474

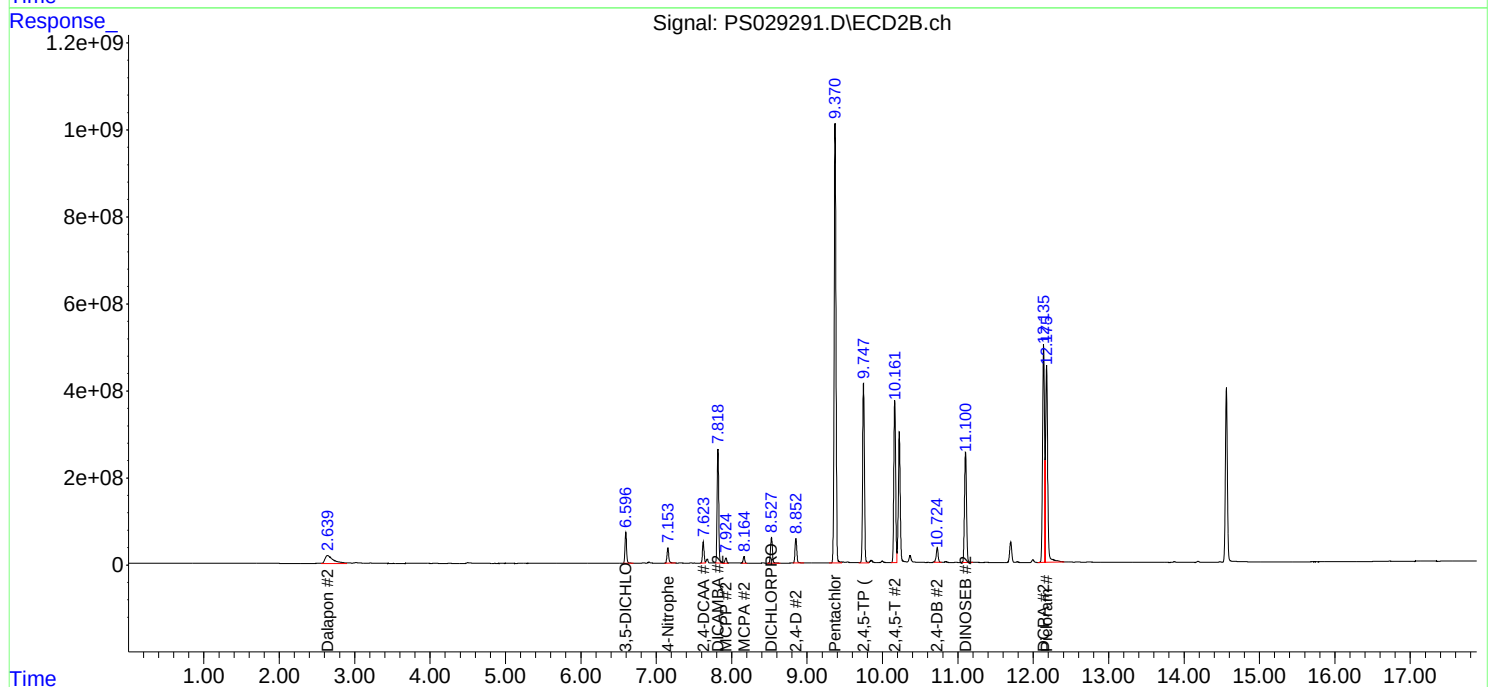
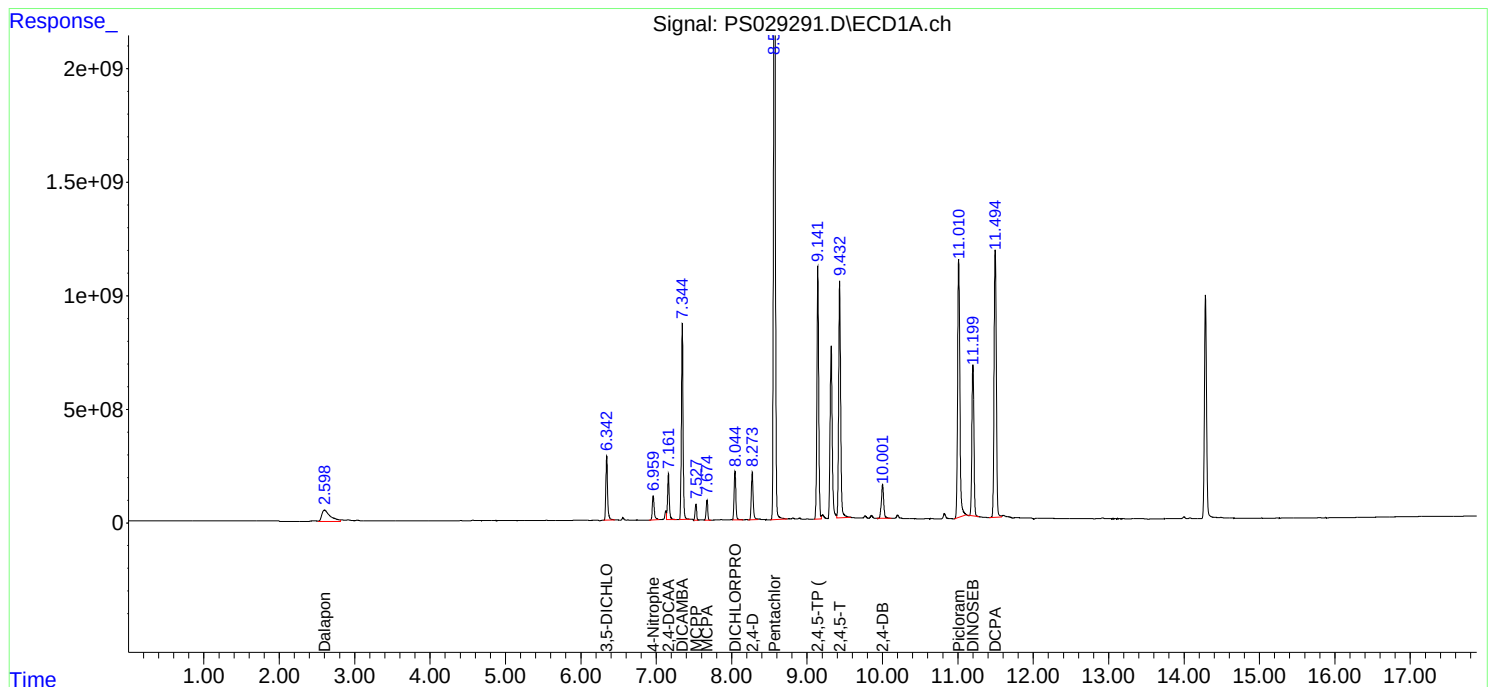
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

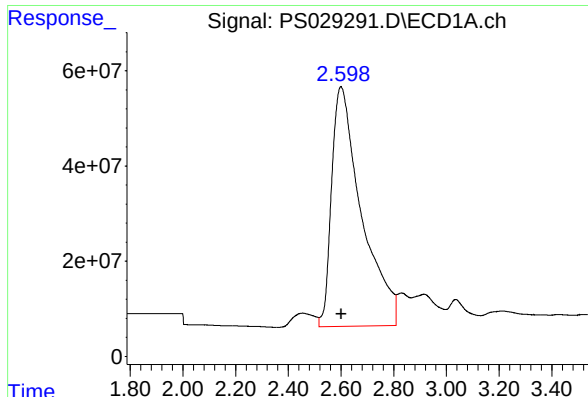
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029291.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 12:55
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:01:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

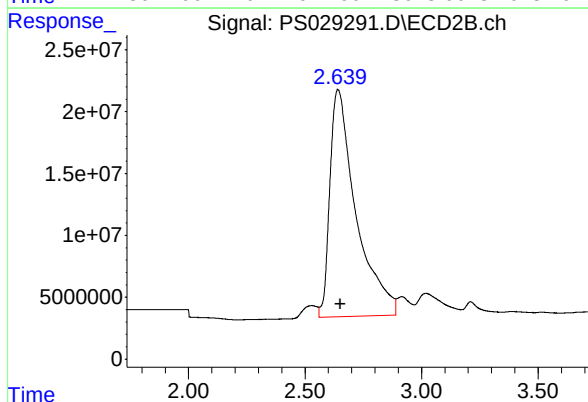




#1 Dalapon

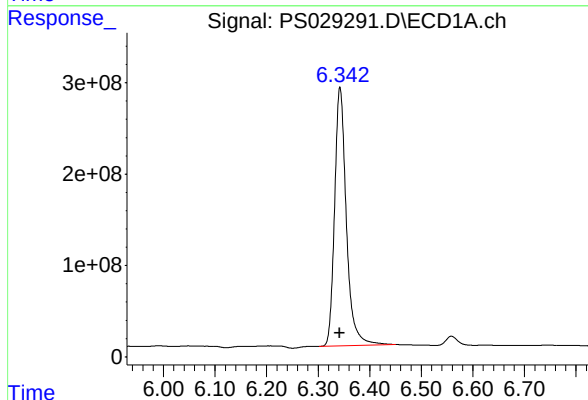
R.T.: 2.600 min
Delta R.T.: 0.000 min
Response: 3960817195
Conc: 717.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



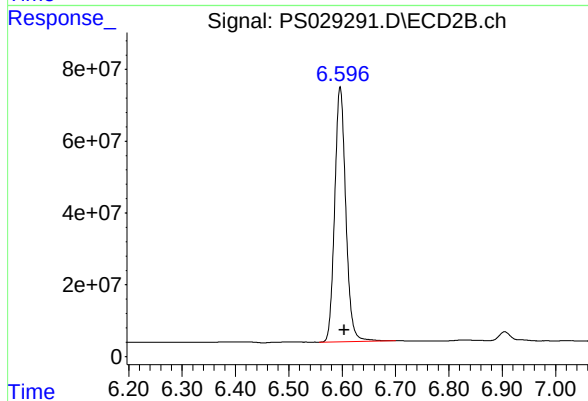
#1 Dalapon

R.T.: 2.640 min
Delta R.T.: -0.011 min
Response: 1430705235
Conc: 675.78 ng/ml



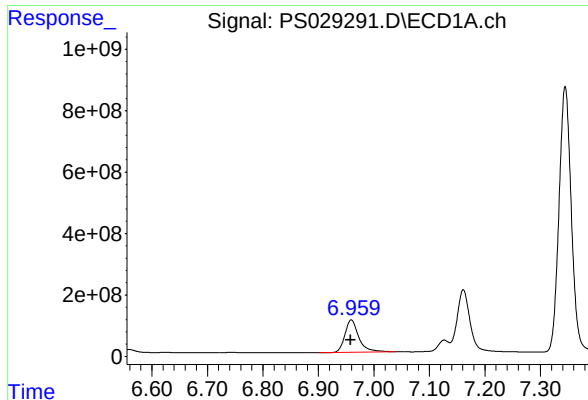
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.342 min
Delta R.T.: 0.000 min
Response: 4472511577
Conc: 764.39 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

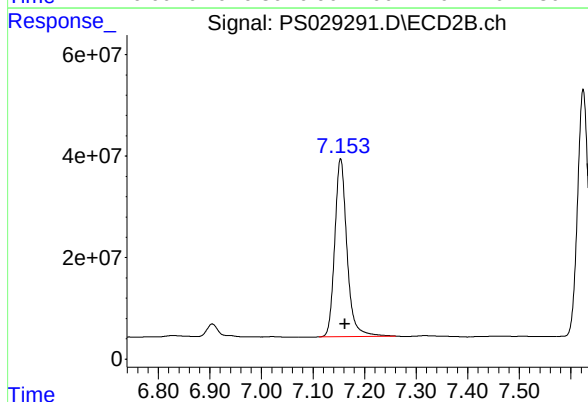
R.T.: 6.596 min
Delta R.T.: -0.008 min
Response: 1024116283
Conc: 723.19 ng/ml



#3 4-Nitrophenol

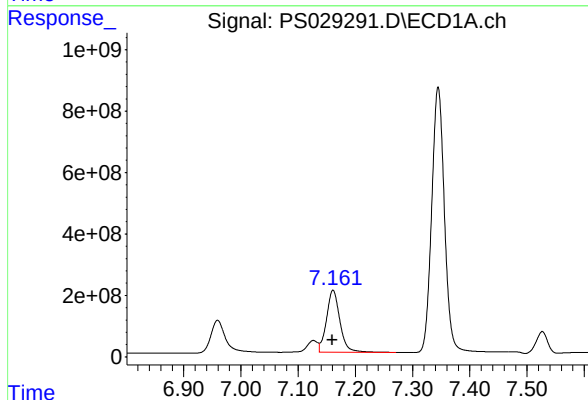
R.T.: 6.959 min
Delta R.T.: 0.000 min
Response: 1832580157
Conc: 783.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



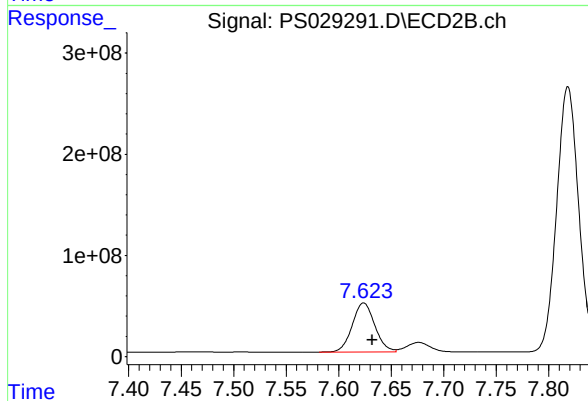
#3 4-Nitrophenol

R.T.: 7.154 min
Delta R.T.: -0.009 min
Response: 576975172
Conc: 723.44 ng/ml



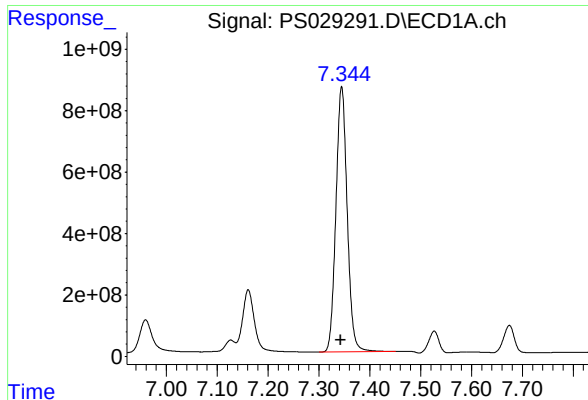
#4 2,4-DCAA

R.T.: 7.161 min
Delta R.T.: 0.001 min
Response: 3298883134
Conc: 800.59 ng/ml



#4 2,4-DCAA

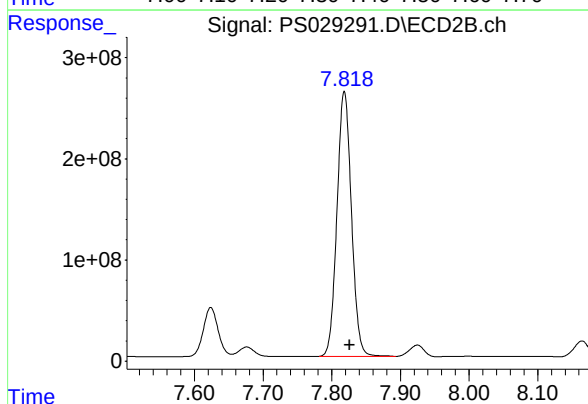
R.T.: 7.624 min
Delta R.T.: -0.008 min
Response: 725903642
Conc: 771.96 ng/ml



#5 DICAMBA

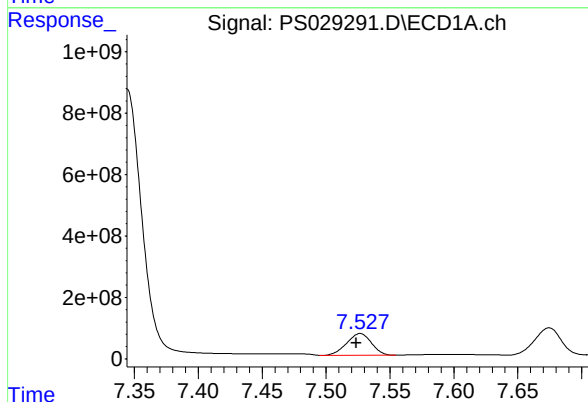
R.T.: 7.345 min
Delta R.T.: 0.002 min
Response: 13297357950
Conc: 765.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



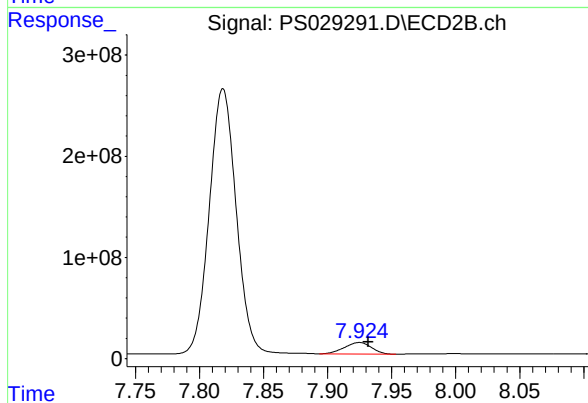
#5 DICAMBA

R.T.: 7.818 min
Delta R.T.: -0.008 min
Response: 3840944594
Conc: 745.38 ng/ml



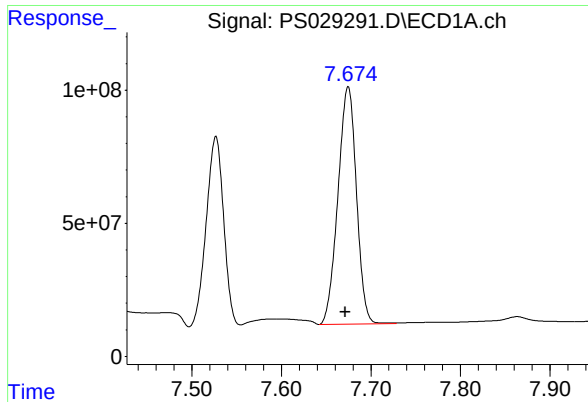
#6 MCPP

R.T.: 7.527 min
Delta R.T.: 0.003 min
Response: 956022849
Conc: 77.56 ug/ml



#6 MCPP

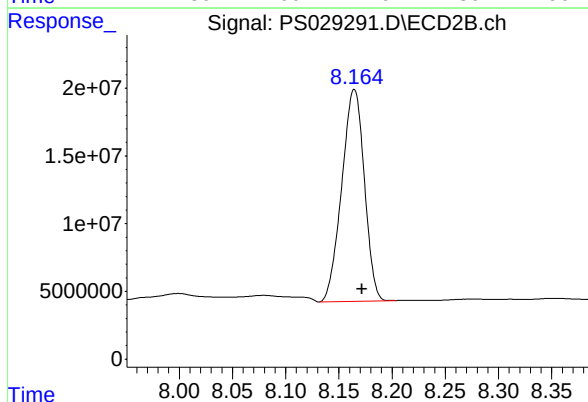
R.T.: 7.925 min
Delta R.T.: -0.007 min
Response: 169143552
Conc: 72.31 ug/ml



#7 MCPA

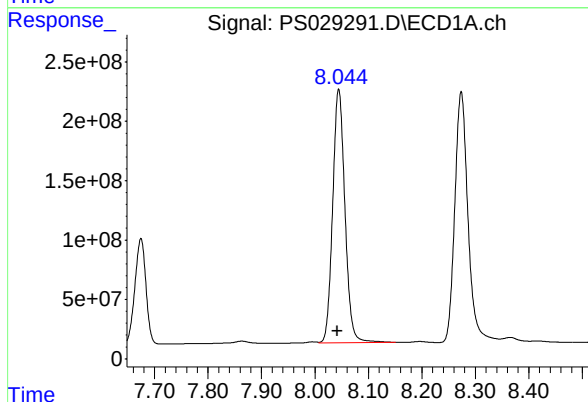
R.T.: 7.675 min
Delta R.T.: 0.003 min
Response: 1281166585
Conc: 75.61 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



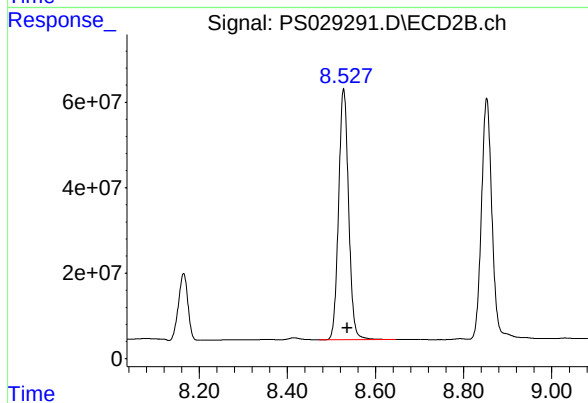
#7 MCPA

R.T.: 8.165 min
Delta R.T.: -0.007 min
Response: 231068348
Conc: 72.44 ug/ml



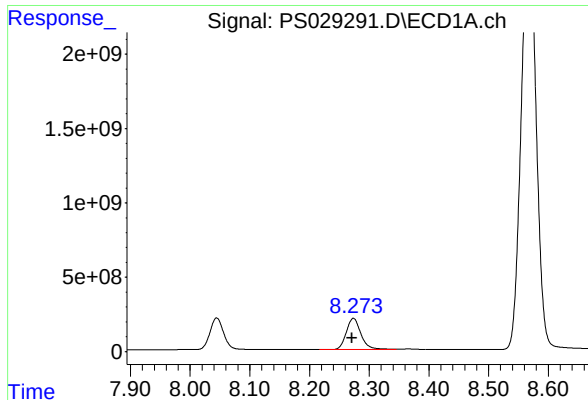
#8 DICHLORPROP

R.T.: 8.044 min
Delta R.T.: 0.003 min
Response: 3405338905
Conc: 740.86 ng/ml



#8 DICHLORPROP

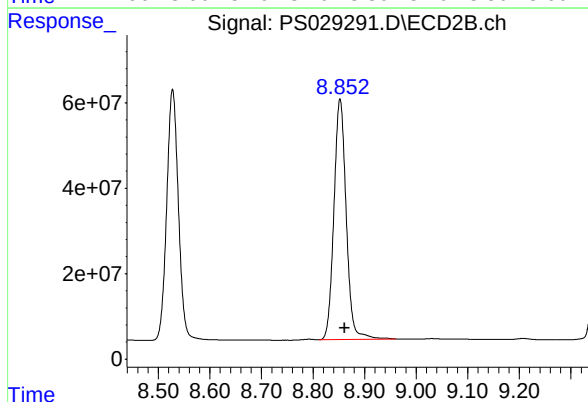
R.T.: 8.528 min
Delta R.T.: -0.009 min
Response: 924553778
Conc: 723.01 ng/ml



#9 2,4-D

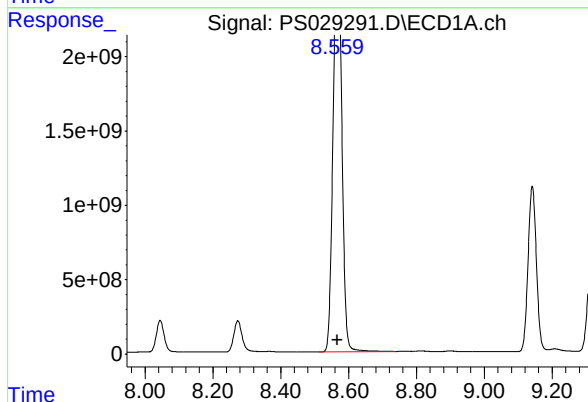
R.T.: 8.274 min
Delta R.T.: 0.002 min
Response: 3579263531
Conc: 753.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



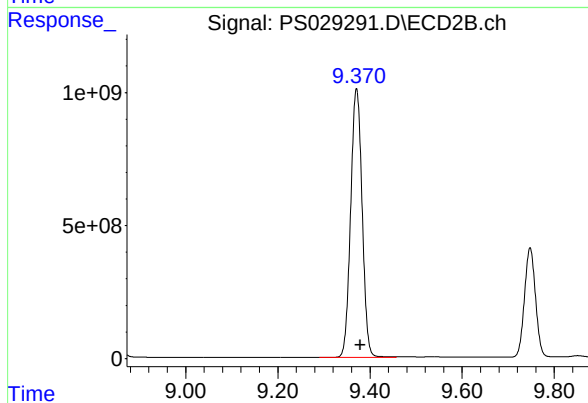
#9 2,4-D

R.T.: 8.852 min
Delta R.T.: -0.009 min
Response: 932639654
Conc: 734.42 ng/ml



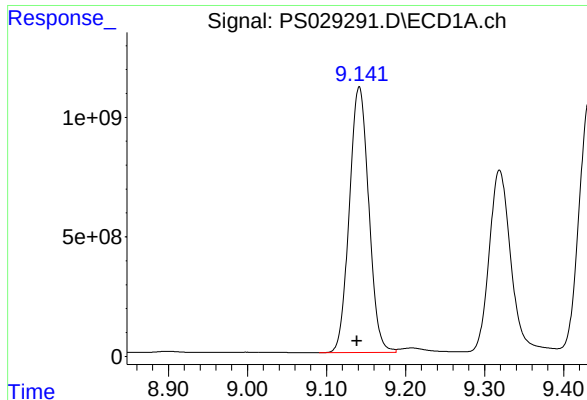
#10 Pentachlorophenol

R.T.: 8.572 min
Delta R.T.: 0.005 min
Response: 44745031571
Conc: 766.76 ng/ml



#10 Pentachlorophenol

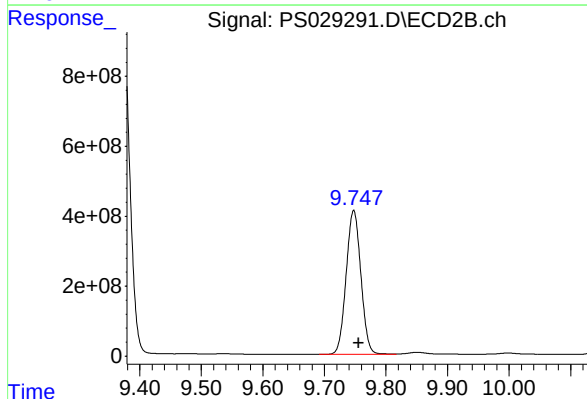
R.T.: 9.371 min
Delta R.T.: -0.008 min
Response: 17421485799
Conc: 757.04 ng/ml



#11 2,4,5-TP (SILVEX)

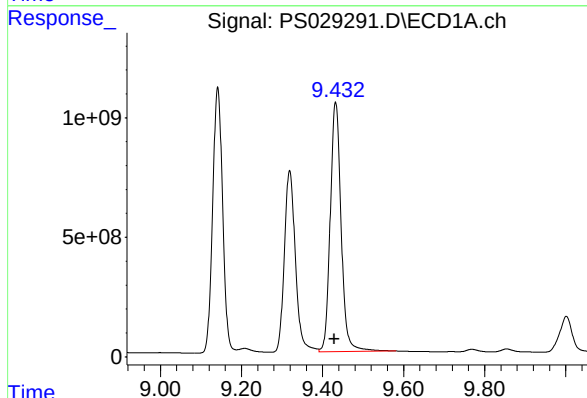
R.T.: 9.141 min
Delta R.T.: 0.003 min
Response: 18937262517
Conc: 770.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



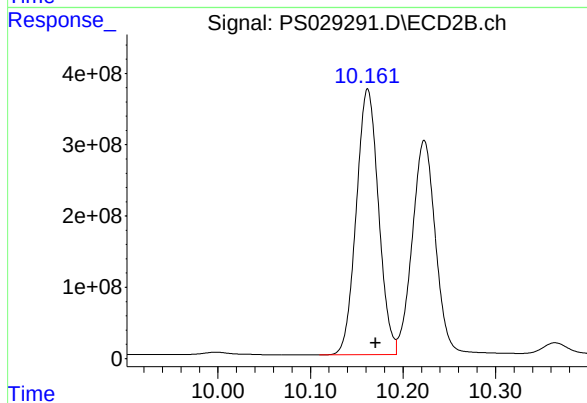
#11 2,4,5-TP (SILVEX)

R.T.: 9.748 min
Delta R.T.: -0.008 min
Response: 6848455979
Conc: 757.85 ng/ml



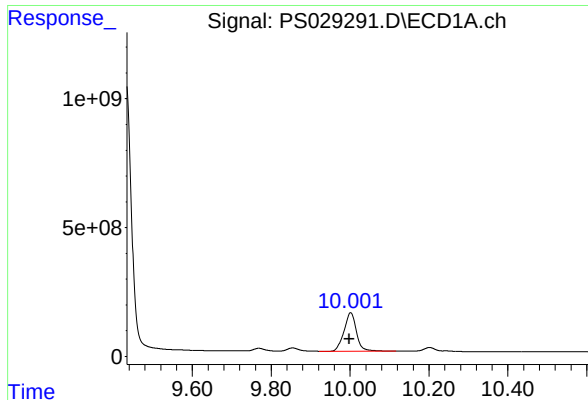
#12 2,4,5-T

R.T.: 9.432 min
Delta R.T.: 0.003 min
Response: 19401627424
Conc: 761.19 ng/ml



#12 2,4,5-T

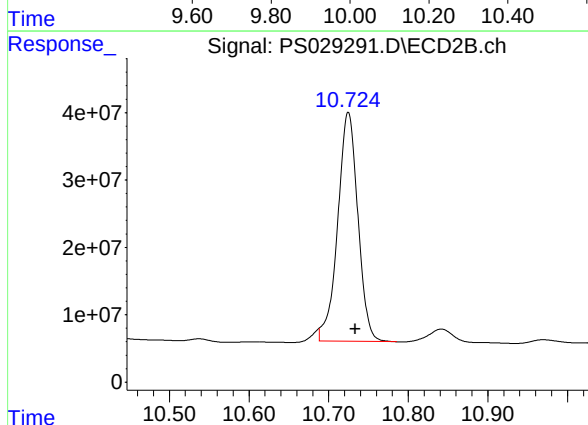
R.T.: 10.162 min
Delta R.T.: -0.009 min
Response: 6216397596
Conc: 757.15 ng/ml



#13 2,4-DB

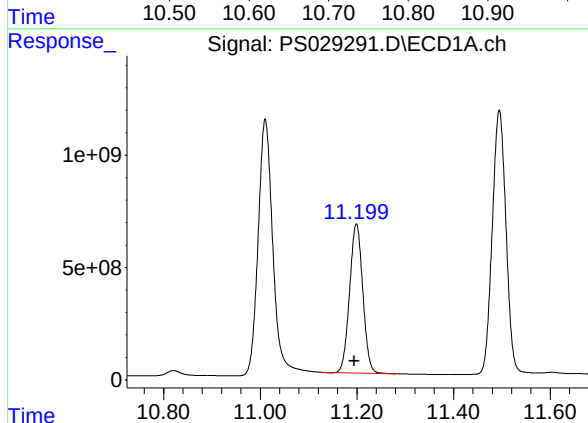
R.T.: 10.001 min
Delta R.T.: 0.003 min
Response: 3262188436
Conc: 781.28 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



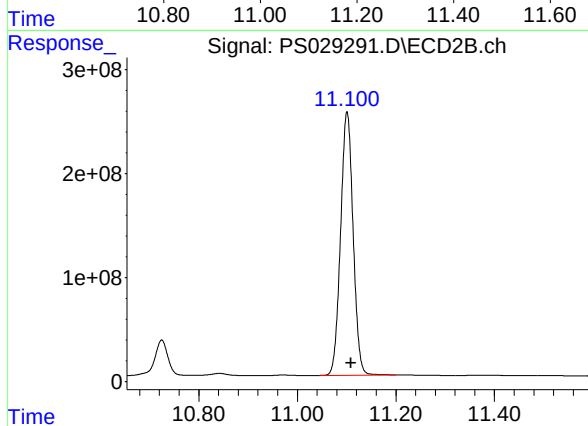
#13 2,4-DB

R.T.: 10.724 min
Delta R.T.: -0.009 min
Response: 597775707
Conc: 780.80 ng/ml m



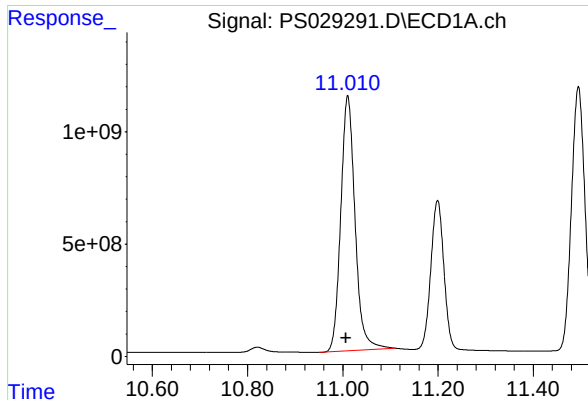
#14 DINOSEB

R.T.: 11.199 min
Delta R.T.: 0.005 min
Response: 12540721814
Conc: 754.06 ng/ml



#14 DINOSEB

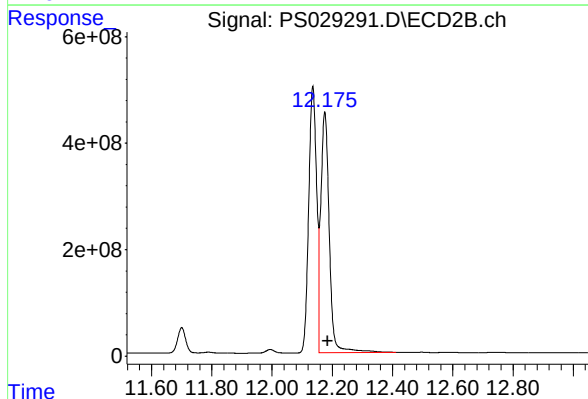
R.T.: 11.100 min
Delta R.T.: -0.009 min
Response: 4472115205
Conc: 737.79 ng/ml m



#15 Picloram

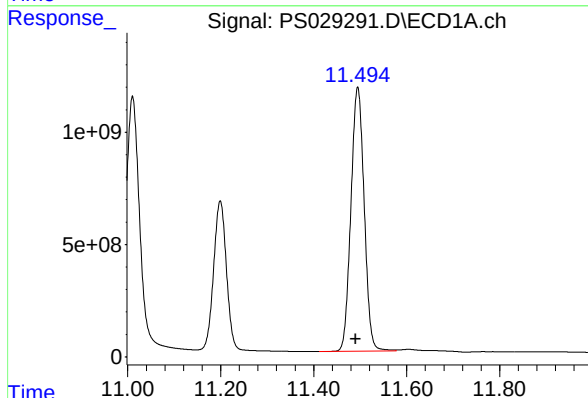
R.T.: 11.010 min
Delta R.T.: 0.004 min
Response: 23609806923
Conc: 772.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



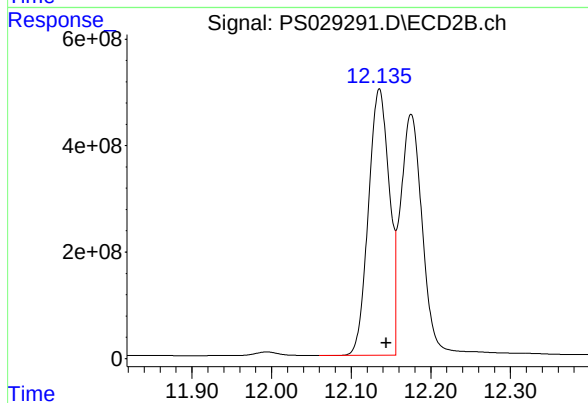
#15 Picloram

R.T.: 12.175 min
Delta R.T.: -0.010 min
Response: 8849592850
Conc: 765.37 ng/ml



#16 DCPA

R.T.: 11.495 min
Delta R.T.: 0.005 min
Response: 23271487472
Conc: 775.63 ng/ml



#16 DCPA

R.T.: 12.135 min
Delta R.T.: -0.009 min
Response: 9143433570
Conc: 772.47 ng/ml



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

Continuing Calib Date: 02/26/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 19:23 Initial Calibration Time(s): 19:56 21:32

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.34	7.34	7.24	7.44	0.00
2,4-DCAA	7.16	7.16	7.06	7.26	0.00
Dalapon	2.60	2.60	2.50	2.70	0.00
DICHLORPROP	8.04	8.04	7.94	8.14	0.00
2,4-D	8.27	8.27	8.17	8.37	0.00
2,4,5-TP(Silvex)	9.14	9.14	9.04	9.24	0.00
2,4,5-T	9.43	9.43	9.33	9.53	0.00
2,4-DB	10.00	10.00	9.90	10.10	0.00
Dinoseb	11.19	11.19	11.09	11.29	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

Continuing Calib Date: 02/26/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 19:23 Initial Calibration Time(s): 19:56 21:32

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.82	7.83	7.73	7.93	0.01
2,4-DCAA	7.63	7.63	7.53	7.73	0.00
Dalapon	2.65	2.65	2.55	2.75	0.00
DICHLORPROP	8.53	8.54	8.44	8.64	0.01
2,4-D	8.86	8.86	8.76	8.96	0.00
2,4,5-TP(Silvex)	9.75	9.76	9.66	9.86	0.01
2,4,5-T	10.17	10.17	10.07	10.27	0.01
2,4-DB	10.73	10.73	10.63	10.83	0.00
Dinoseb	11.10	11.11	11.01	11.21	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL04 Date Analyzed: 02/26/2025

Lab Sample No.: HSTDCCC750 Data File : PS029303.D Time Analyzed: 19:23

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.427	9.329	9.529	765.500	712.500	7.4
2,4,5-TP(Silvex)	9.137	9.038	9.238	766.410	712.500	7.6
2,4-D	8.269	8.171	8.371	750.970	705.000	6.5
2,4-DB	9.996	9.898	10.098	768.040	712.500	7.8
2,4-DCAA	7.158	7.060	7.260	796.740	750.000	6.2
Dalapon	2.600	2.500	2.700	689.240	682.500	1.0
DICAMBA	7.341	7.243	7.443	761.360	705.000	8.0
DICHLORPROP	8.040	7.942	8.142	740.310	705.000	5.0
Dinoseb	11.193	11.094	11.294	747.850	705.000	6.1



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382 SAS No.: Q1382 SDG NO.: Q1382

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL04 Date Analyzed: 02/26/2025

Lab Sample No.: HSTDCCC750 Data File : PS029303.D Time Analyzed: 19:23

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.165	10.070	10.270	764.870	712.500	7.4
2,4,5-TP(Silvex)	9.750	9.656	9.856	764.830	712.500	7.3
2,4-D	8.856	8.761	8.961	743.990	705.000	5.5
2,4-DB	10.728	10.634	10.834	714.720	712.500	0.3
2,4-DCAA	7.627	7.532	7.732	778.000	750.000	3.7
Dalapon	2.647	2.551	2.751	667.410	682.500	-2.2
DICAMBA	7.821	7.726	7.926	753.200	705.000	6.8
DICHLORPROP	8.531	8.436	8.636	740.930	705.000	5.1
Dinoseb	11.103	11.009	11.209	736.630	705.000	4.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
 Data File : PS029303.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Feb 2025 19:23
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 27 04:06:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
 Quant Title : 8080.M
 QLast Update : Sat Feb 22 01:02:20 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.158	7.627	3283.0E6	731.6E6	796.743	778.000
Target Compounds							
1) T	Dalapon	2.600	2.647	3804.8E6	1413.0E6	689.241	667.412
2) T	3,5-DICHL...	6.340	6.600	4408.9E6	1030.2E6	753.511	727.499
3) T	4-Nitroph...	6.957	7.157	1738.5E6	569.1E6	742.893	713.596
5) T	DICAMBA	7.341	7.821	13221.8E6	3881.2E6	761.361	753.198
6) T	MCPD	7.523	7.927	963.2E6	174.6E6	78.142	74.627
7) T	MCPA	7.671	8.167	1285.7E6	236.0E6	75.874	74.000
8) T	DICHLORPROP	8.040	8.531	3402.8E6	947.5E6	740.315	740.931
9) T	2,4-D	8.269	8.856	3567.4E6	944.8E6	750.967	743.986
10) T	Pentachlo...	8.567	9.373	44610.2E6	17597.1E6	764.447	764.670
11) T	2,4,5-TP ...	9.137	9.750	18843.6E6	6911.5E6	766.407	764.829
12) T	2,4,5-T	9.427	10.165	19511.7E6	6279.8E6	765.504	764.871
13) T	2,4-DB	9.996	10.728	3206.9E6	547.2E6	768.044	714.718
14) T	DINOSEB	11.193	11.103	12437.4E6	4465.1E6	747.855	736.630m
15) T	Picloram	11.005	12.178	22952.5E6	8402.9E6	751.469	726.740
16) T	DCPA	11.488	12.137	23129.5E6	9259.5E6	770.894	782.276

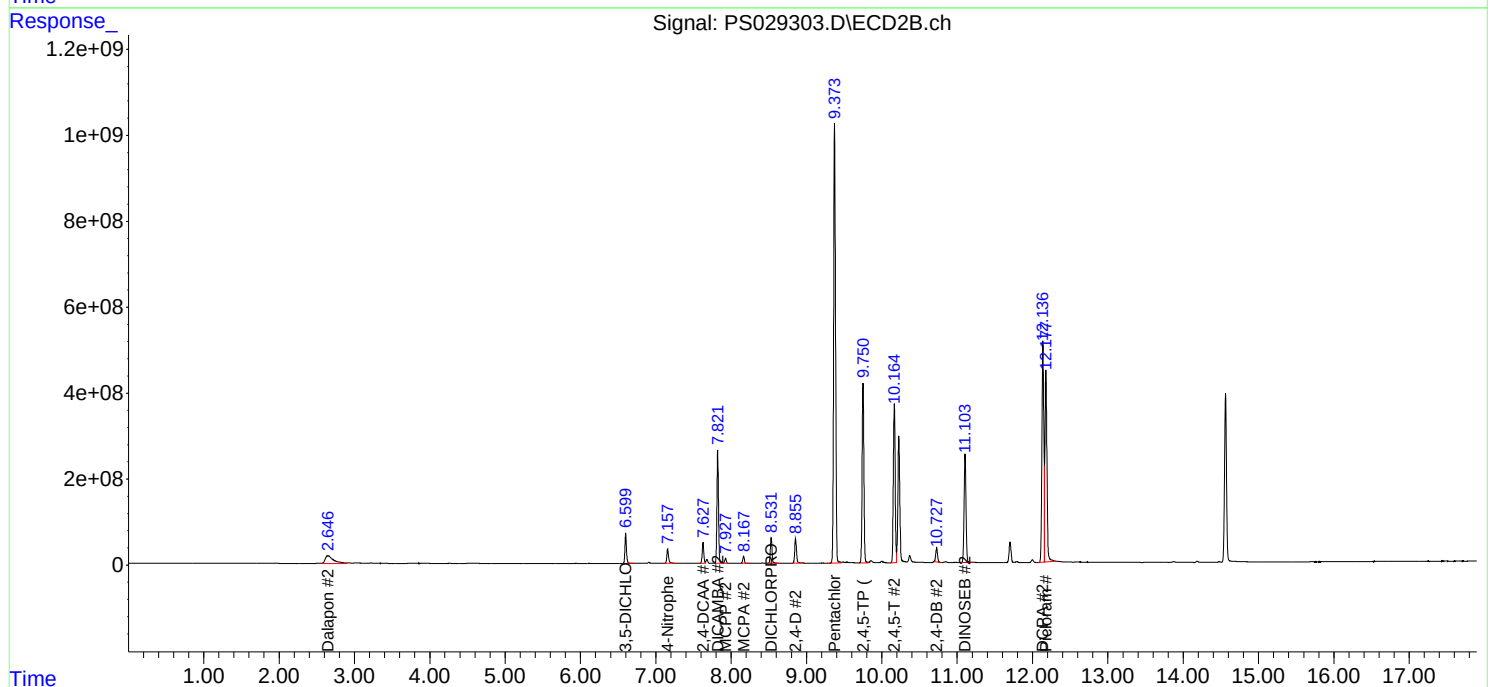
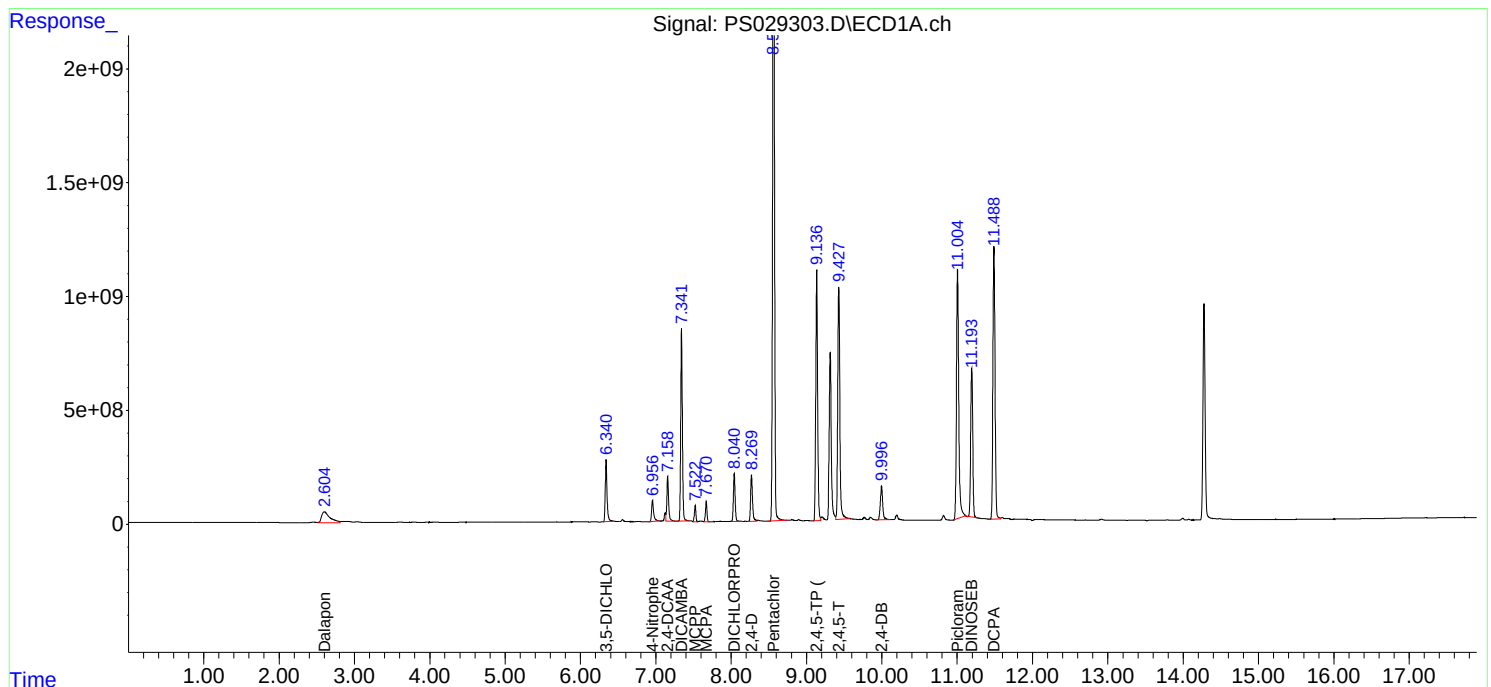
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

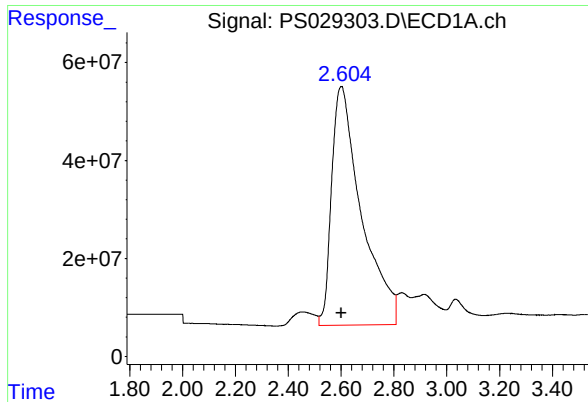
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029303.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 19:23
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:06:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

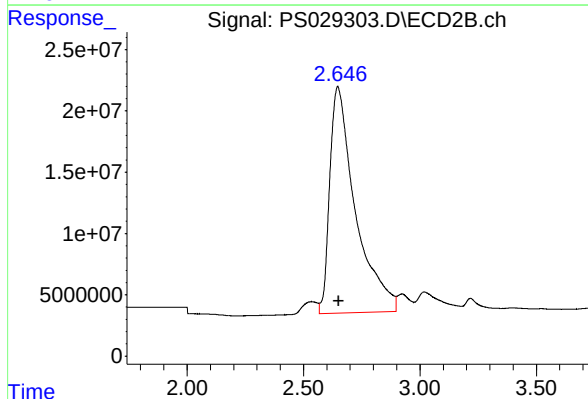




#1 Dalapon

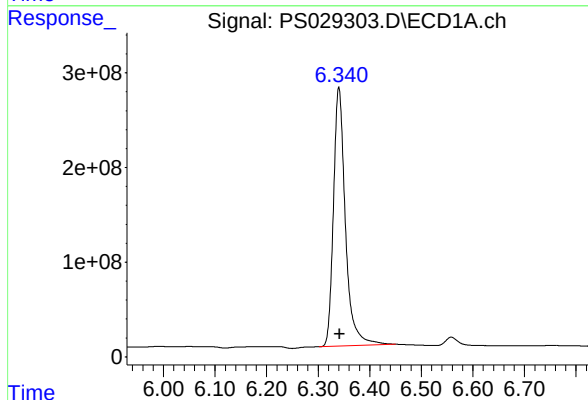
R.T.: 2.600 min
Delta R.T.: 0.000 min
Response: 3804805677
Conc: 689.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



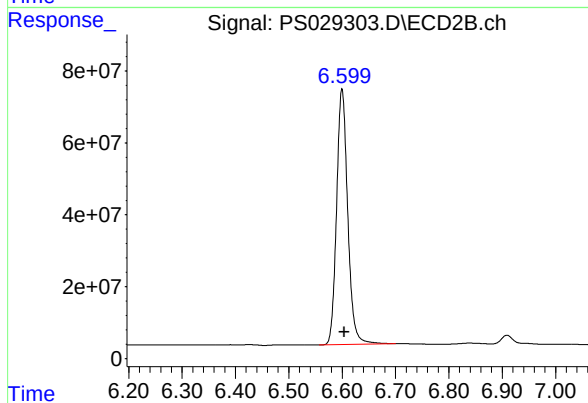
#1 Dalapon

R.T.: 2.647 min
Delta R.T.: -0.004 min
Response: 1412990643
Conc: 667.41 ng/ml



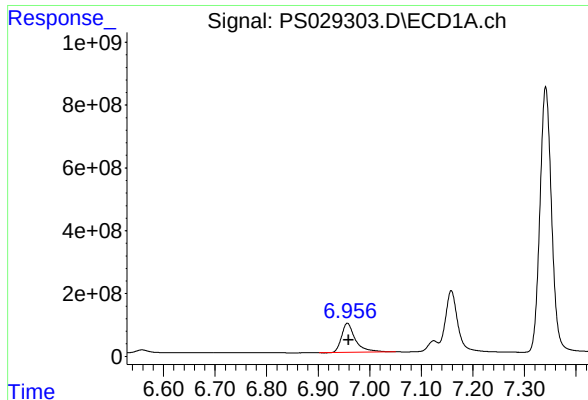
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.340 min
Delta R.T.: -0.001 min
Response: 4408883097
Conc: 753.51 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

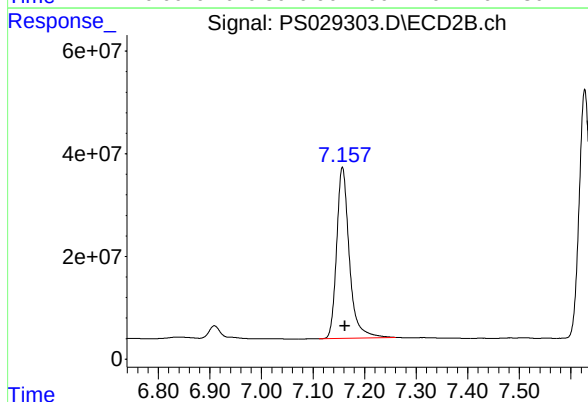
R.T.: 6.600 min
Delta R.T.: -0.004 min
Response: 1030222349
Conc: 727.50 ng/ml



#3 4-Nitrophenol

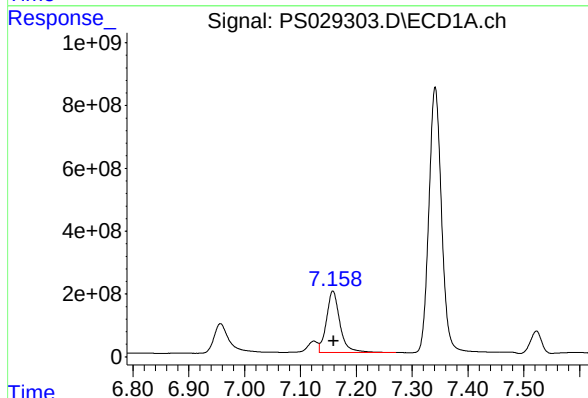
R.T.: 6.957 min
Delta R.T.: -0.002 min
Response: 1738505367
Conc: 742.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



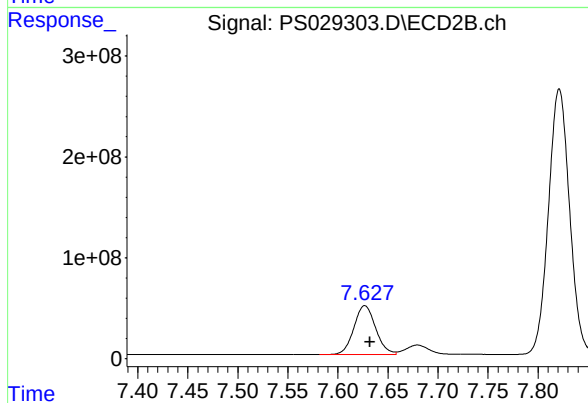
#3 4-Nitrophenol

R.T.: 7.157 min
Delta R.T.: -0.005 min
Response: 569126968
Conc: 713.60 ng/ml



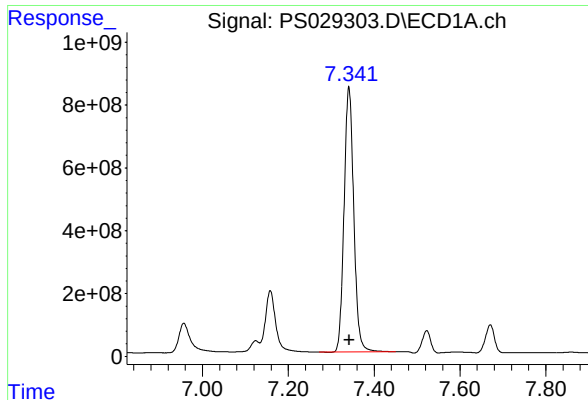
#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: -0.002 min
Response: 3283039909
Conc: 796.74 ng/ml



#4 2,4-DCAA

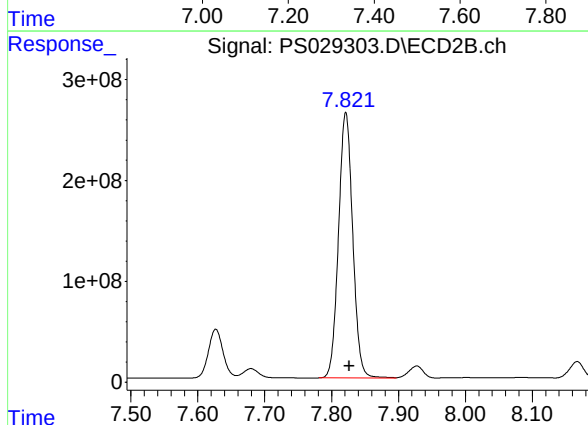
R.T.: 7.627 min
Delta R.T.: -0.005 min
Response: 731578842
Conc: 778.00 ng/ml



#5 DICAMBA

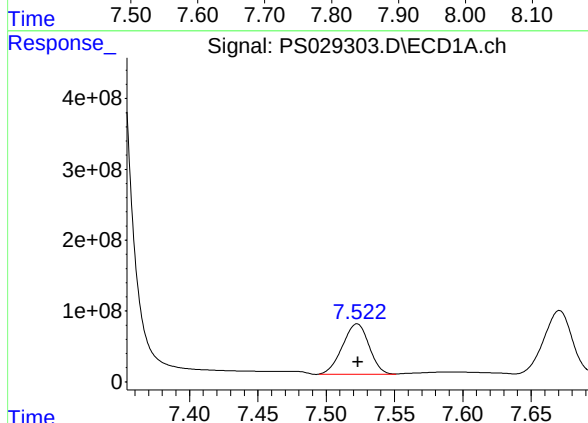
R.T.: 7.341 min
Delta R.T.: -0.001 min
Response: 13221756135
Conc: 761.36 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



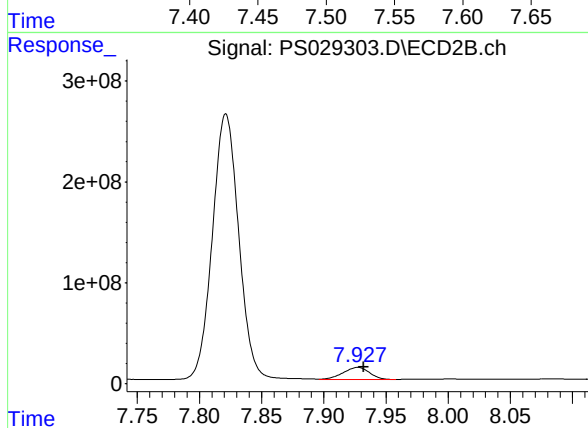
#5 DICAMBA

R.T.: 7.821 min
Delta R.T.: -0.005 min
Response: 3881205937
Conc: 753.20 ng/ml



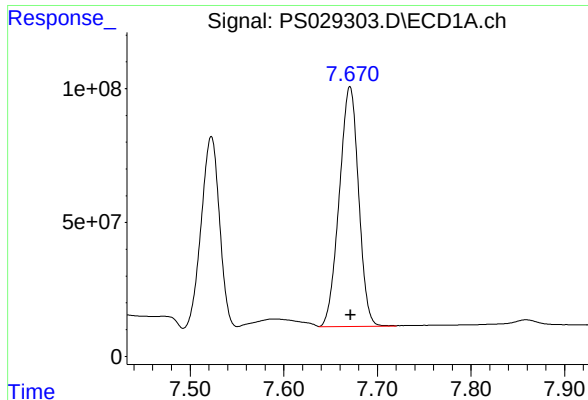
#6 MCPP

R.T.: 7.523 min
Delta R.T.: 0.000 min
Response: 963159321
Conc: 78.14 ug/ml



#6 MCPP

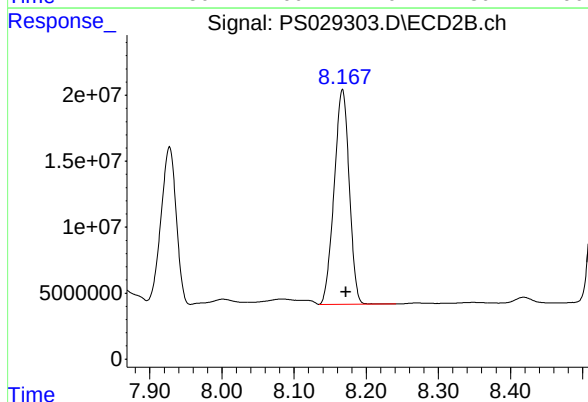
R.T.: 7.927 min
Delta R.T.: -0.005 min
Response: 174564165
Conc: 74.63 ug/ml



#7 MCPA

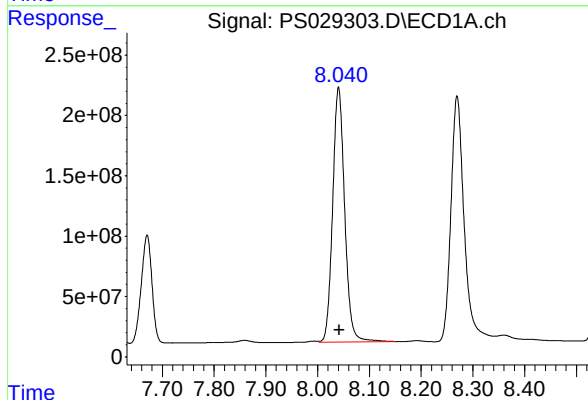
R.T.: 7.671 min
Delta R.T.: 0.000 min
Response: 1285713868
Conc: 75.87 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



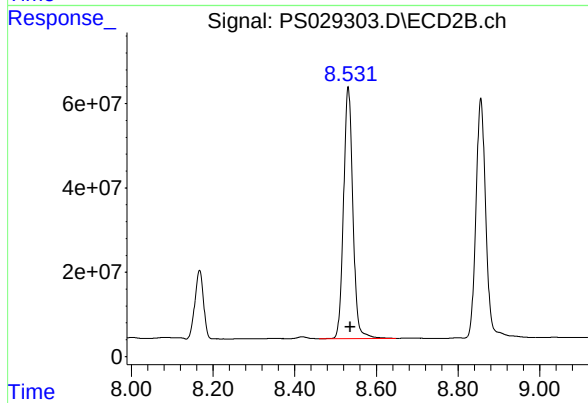
#7 MCPA

R.T.: 8.167 min
Delta R.T.: -0.005 min
Response: 236039621
Conc: 74.00 ug/ml



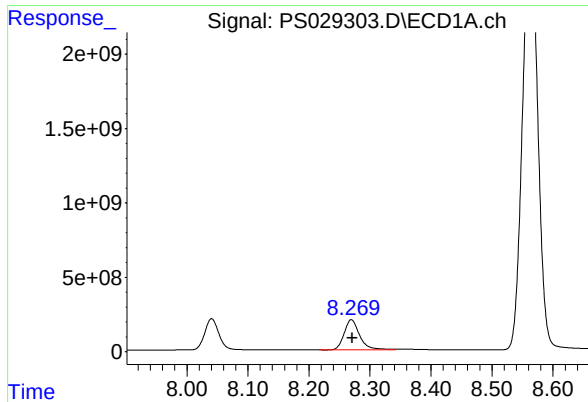
#8 DICHLORPROP

R.T.: 8.040 min
Delta R.T.: -0.001 min
Response: 3402827486
Conc: 740.31 ng/ml



#8 DICHLORPROP

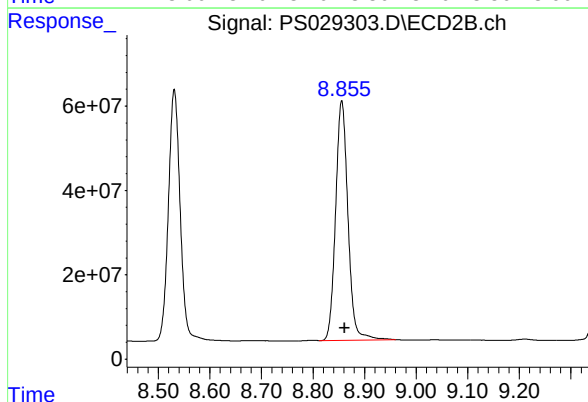
R.T.: 8.531 min
Delta R.T.: -0.005 min
Response: 947473333
Conc: 740.93 ng/ml



#9 2,4-D

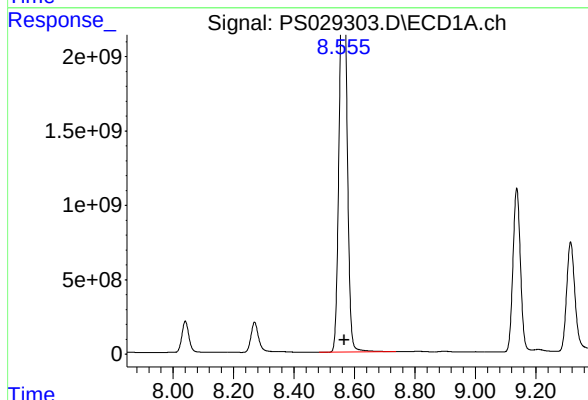
R.T.: 8.269 min
Delta R.T.: -0.002 min
Response: 3567413792
Conc: 750.97 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



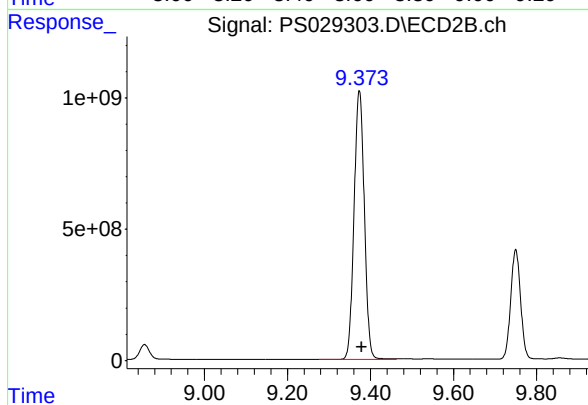
#9 2,4-D

R.T.: 8.856 min
Delta R.T.: -0.005 min
Response: 944784484
Conc: 743.99 ng/ml



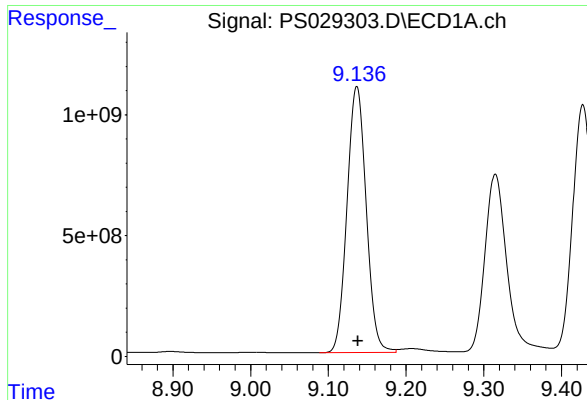
#10 Pentachlorophenol

R.T.: 8.567 min
Delta R.T.: 0.000 min
Response: 44610197167
Conc: 764.45 ng/ml



#10 Pentachlorophenol

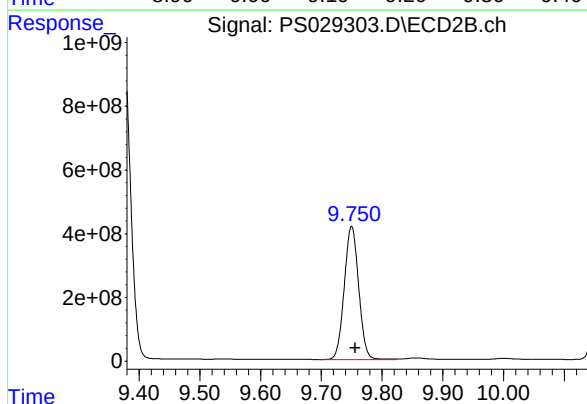
R.T.: 9.373 min
Delta R.T.: -0.006 min
Response: 17597098346
Conc: 764.67 ng/ml



#11 2,4,5-TP (SILVEX)

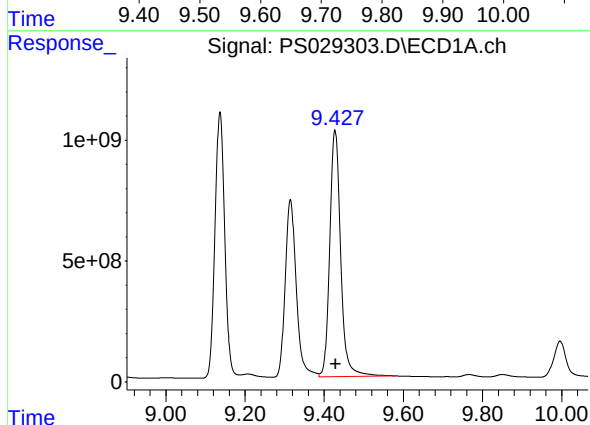
R.T.: 9.137 min
Delta R.T.: -0.002 min
Response: 18843612084
Conc: 766.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



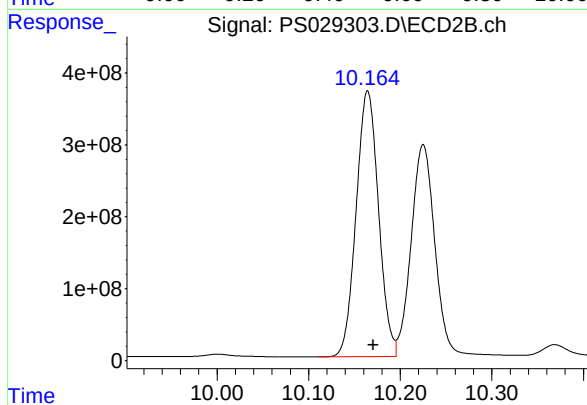
#11 2,4,5-TP (SILVEX)

R.T.: 9.750 min
Delta R.T.: -0.006 min
Response: 6911530143
Conc: 764.83 ng/ml



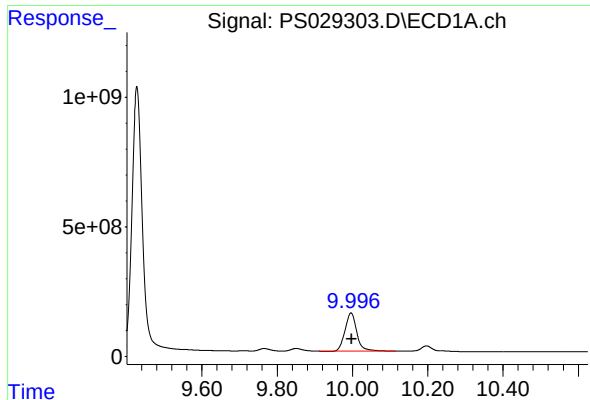
#12 2,4,5-T

R.T.: 9.427 min
Delta R.T.: -0.002 min
Response: 19511701928
Conc: 765.50 ng/ml



#12 2,4,5-T

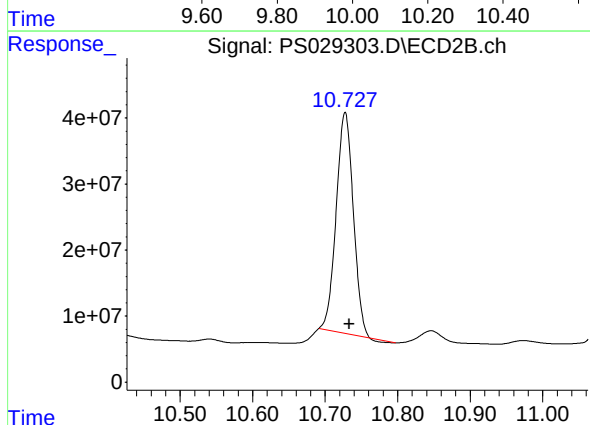
R.T.: 10.165 min
Delta R.T.: -0.006 min
Response: 6279815603
Conc: 764.87 ng/ml



#13 2,4-DB

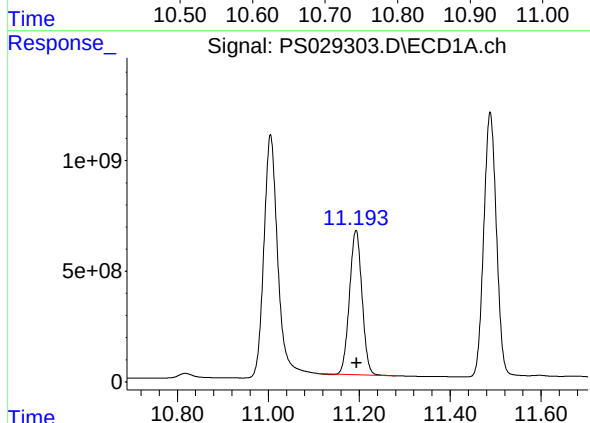
R.T.: 9.996 min
Delta R.T.: -0.002 min
Response: 3206911237
Conc: 768.04 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



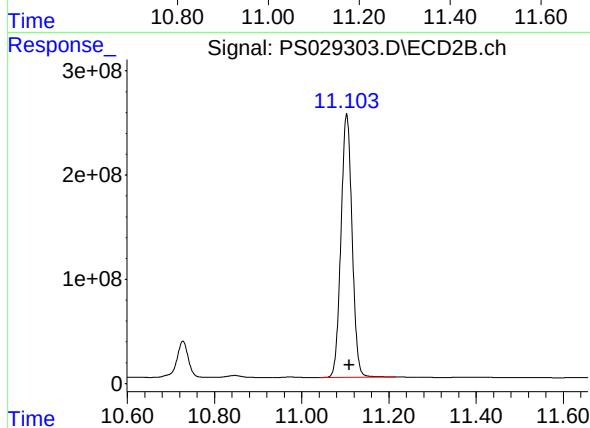
#13 2,4-DB

R.T.: 10.728 min
Delta R.T.: -0.006 min
Response: 547182210
Conc: 714.72 ng/ml



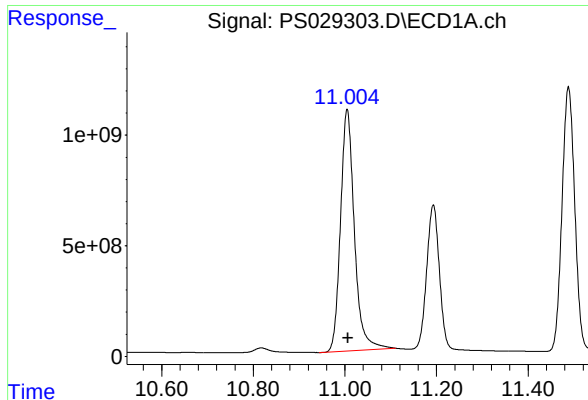
#14 DINOSEB

R.T.: 11.193 min
Delta R.T.: -0.001 min
Response: 12437444341
Conc: 747.85 ng/ml



#14 DINOSEB

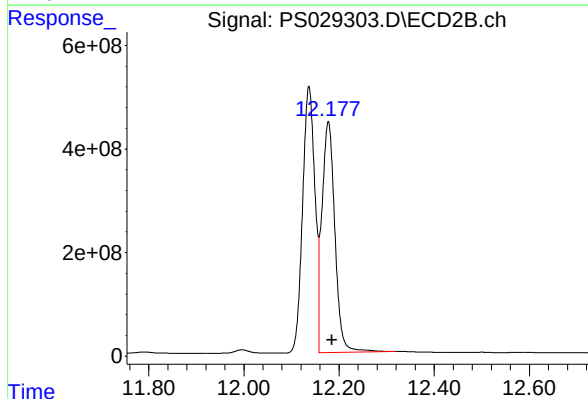
R.T.: 11.103 min
Delta R.T.: -0.007 min
Response: 4465101466
Conc: 736.63 ng/ml m



#15 Picloram

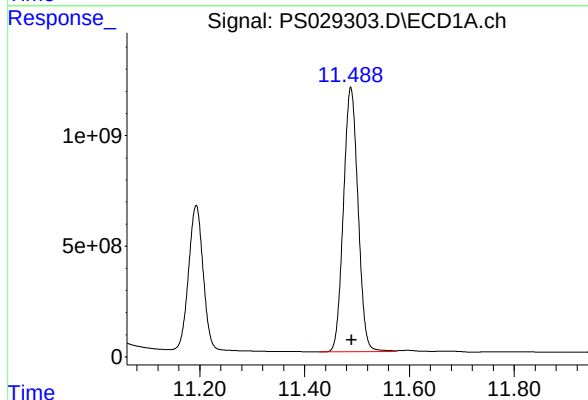
R.T.: 11.005 min
Delta R.T.: -0.002 min
Response: 22952488483
Conc: 751.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



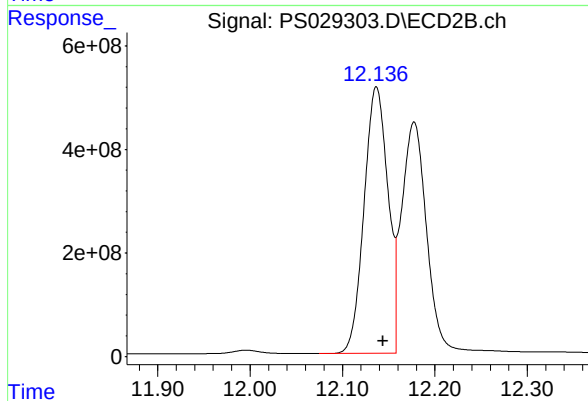
#15 Picloram

R.T.: 12.178 min
Delta R.T.: -0.008 min
Response: 8402886108
Conc: 726.74 ng/ml



#16 DCPA

R.T.: 11.488 min
Delta R.T.: -0.002 min
Response: 23129490951
Conc: 770.89 ng/ml



#16 DCPA

R.T.: 12.137 min
Delta R.T.: -0.007 min
Response: 9259455023
Conc: 782.28 ng/ml

Analytical Sequence

Client: Nobis Group

SDG No.: Q1382

Project: Raymark Superfund Site

Instrument ID: ECD_S

GC Column: RTX-CLP

ID: 0.32 (mm)

Inst. Calib. Date(s): 02/19/2025 02/19/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	02/19/2025	09:27	PS029190.D	7.16	0.00
HSTDICC200	HSTDICC200	02/19/2025	10:21	PS029191.D	7.16	0.00
HSTDICC500	HSTDICC500	02/19/2025	10:45	PS029192.D	7.16	0.00
HSTDICC750	HSTDICC750	02/19/2025	11:09	PS029193.D	7.16	0.00
HSTDICC1000	HSTDICC1000	02/19/2025	11:33	PS029194.D	7.16	0.00
HSTDICC1500	HSTDICC1500	02/19/2025	11:57	PS029195.D	7.16	0.00
IBLK	IBLK	02/19/2025	16:21	PS029206.D	7.16	0.00
HSTDCCC750	HSTDCCC750	02/19/2025	16:45	PS029207.D	7.16	0.00
PB166763BL	PB166763BL	02/19/2025	17:09	PS029208.D	7.16	0.00
PB166763BS	PB166763BS	02/19/2025	17:33	PS029209.D	7.16	0.00
AU-05-021425MS	Q1372-01MS	02/19/2025	18:21	PS029211.D	7.16	0.00
AU-05-021425MSD	Q1372-01MSD	02/19/2025	18:45	PS029212.D	7.16	0.00
OU4-PCS-TC-01-021725	Q1382-01	02/19/2025	19:09	PS029213.D	7.16	0.00
OU4-PCS-TC-02-021725	Q1382-03	02/19/2025	19:33	PS029214.D	7.16	0.00
OU4-PCS-TC-03-021725	Q1382-05	02/19/2025	19:57	PS029215.D	7.16	0.00
OU4-PCS-TC-04-021725	Q1382-07	02/19/2025	20:21	PS029216.D	7.16	0.00
OU4-PCS-TC-05-021725	Q1382-09	02/19/2025	20:45	PS029217.D	7.16	0.00
IBLK	IBLK	02/19/2025	21:09	PS029218.D	7.16	0.00
HSTDCCC750	HSTDCCC750	02/19/2025	21:33	PS029219.D	7.16	0.00
IBLK	IBLK	02/21/2025	19:32	PS029233.D	7.16	0.00
HSTDICC200	HSTDICC200	02/21/2025	19:56	PS029234.D	7.16	0.00
HSTDICC500	HSTDICC500	02/21/2025	20:20	PS029235.D	7.16	0.00
HSTDICC750	HSTDICC750	02/21/2025	20:44	PS029236.D	7.16	0.00
HSTDICC1000	HSTDICC1000	02/21/2025	21:08	PS029237.D	7.16	0.00
HSTDICC1500	HSTDICC1500	02/21/2025	21:32	PS029238.D	7.16	0.00
IBLK	IBLK	02/26/2025	09:53	PS029290.D	7.16	0.00
HSTDCCC750	HSTDCCC750	02/26/2025	12:55	PS029291.D	7.16	0.00
OU4-PCS-TC-06-021725	Q1382-11	02/26/2025	16:34	PS029296.D	7.16	0.00
OU4-PCS-TC-07-021725	Q1382-13	02/26/2025	16:58	PS029297.D	7.16	0.00
OU4-PCS-TC-08-021725	Q1382-15	02/26/2025	17:22	PS029298.D	7.16	0.00
OU4-PCS-TC-09-021725	Q1382-17	02/26/2025	17:46	PS029299.D	7.16	0.00
OU4-PCS-TC-10-021725	Q1382-19	02/26/2025	18:10	PS029300.D	7.16	0.00
IBLK	IBLK	02/26/2025	18:59	PS029302.D	7.16	0.00
HSTDCCC750	HSTDCCC750	02/26/2025	19:23	PS029303.D	7.16	0.00

Analytical Sequence

Client: Nobis Group

SDG No.: Q1382

Project: Raymark Superfund Site

Instrument ID: ECD_S

GC Column: RTX-CLP2

ID: 0.32 (mm)

Inst. Calib. Date(s): 02/19/2025 02/19/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	02/19/2025	09:27	PS029190.D	7.64	0.00
HSTDICC200	HSTDICC200	02/19/2025	10:21	PS029191.D	7.64	0.00
HSTDICC500	HSTDICC500	02/19/2025	10:45	PS029192.D	7.64	0.00
HSTDICC750	HSTDICC750	02/19/2025	11:09	PS029193.D	7.64	0.00
HSTDICC1000	HSTDICC1000	02/19/2025	11:33	PS029194.D	7.64	0.00
HSTDICC1500	HSTDICC1500	02/19/2025	11:57	PS029195.D	7.64	0.00
IBLK	IBLK	02/19/2025	16:21	PS029206.D	7.64	0.00
HSTDCCC750	HSTDCCC750	02/19/2025	16:45	PS029207.D	7.64	0.00
PB166763BL	PB166763BL	02/19/2025	17:09	PS029208.D	7.64	0.00
PB166763BS	PB166763BS	02/19/2025	17:33	PS029209.D	7.64	0.00
AU-05-021425MS	Q1372-01MS	02/19/2025	18:21	PS029211.D	7.64	0.00
AU-05-021425MSD	Q1372-01MSD	02/19/2025	18:45	PS029212.D	7.64	0.00
OU4-PCS-TC-01-021725	Q1382-01	02/19/2025	19:09	PS029213.D	7.64	0.00
OU4-PCS-TC-02-021725	Q1382-03	02/19/2025	19:33	PS029214.D	7.64	0.00
OU4-PCS-TC-03-021725	Q1382-05	02/19/2025	19:57	PS029215.D	7.64	0.00
OU4-PCS-TC-04-021725	Q1382-07	02/19/2025	20:21	PS029216.D	7.64	0.00
OU4-PCS-TC-05-021725	Q1382-09	02/19/2025	20:45	PS029217.D	7.64	0.00
IBLK	IBLK	02/19/2025	21:09	PS029218.D	7.64	0.00
HSTDCCC750	HSTDCCC750	02/19/2025	21:33	PS029219.D	7.64	0.00
IBLK	IBLK	02/21/2025	19:32	PS029233.D	7.63	0.00
HSTDICC200	HSTDICC200	02/21/2025	19:56	PS029234.D	7.63	0.00
HSTDICC500	HSTDICC500	02/21/2025	20:20	PS029235.D	7.63	0.00
HSTDICC750	HSTDICC750	02/21/2025	20:44	PS029236.D	7.63	0.00
HSTDICC1000	HSTDICC1000	02/21/2025	21:08	PS029237.D	7.63	0.00
HSTDICC1500	HSTDICC1500	02/21/2025	21:32	PS029238.D	7.63	0.00
IBLK	IBLK	02/26/2025	09:53	PS029290.D	7.63	0.00
HSTDCCC750	HSTDCCC750	02/26/2025	12:55	PS029291.D	7.62	0.00
OU4-PCS-TC-06-021725	Q1382-11	02/26/2025	16:34	PS029296.D	7.63	0.00
OU4-PCS-TC-07-021725	Q1382-13	02/26/2025	16:58	PS029297.D	7.63	0.00
OU4-PCS-TC-08-021725	Q1382-15	02/26/2025	17:22	PS029298.D	7.63	0.00
OU4-PCS-TC-09-021725	Q1382-17	02/26/2025	17:46	PS029299.D	7.63	0.00
OU4-PCS-TC-10-021725	Q1382-19	02/26/2025	18:10	PS029300.D	7.63	0.00
IBLK	IBLK	02/26/2025	18:59	PS029302.D	7.63	0.00
HSTDCCC750	HSTDCCC750	02/26/2025	19:23	PS029303.D	7.63	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

AU-05-021425MS

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1382

SAS No.: Q1382 **SDG NO.:** Q1382

Lab Sample ID: Q1372-01MS

Date(s) Analyzed: 02/19/2025 02/19/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm)

GC Column:(2): RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-TP(Silvex)	1	9.14	9.09	9.19	22.8	6
	2	9.76	9.71	9.81	24.2	
2,4,5-T	1	9.43	9.38	9.48	28.6	2.1
	2	10.18	10.13	10.23	29.2	
Dalapon	1	2.60	2.55	2.65	78.7	44.7
	2	2.65	2.60	2.70	124	
DICHLORPROP	1	8.04	7.99	8.09	28.1	5.2
	2	8.54	8.49	8.59	29.6	
2,4-D	1	8.27	8.22	8.32	70.2	6
	2	8.87	8.82	8.92	66.1	
DICAMBA	1	7.34	7.29	7.39	52.0	4.1
	2	7.83	7.78	7.88	49.9	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

AU-05-021425MSD

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382

SAS No.: Q1382

SDG NO.: Q1382

Lab Sample ID: Q1372-01MSD

Date(s) Analyzed: 02/19/2025 02/19/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP ID: 0.32 (mm)

GC Column:(2): RTX-CLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Dalapon	1	2.60	2.55	2.65	75.6	36.2
	2	2.65	2.60	2.70	109	
DICHLORPROP	1	8.04	7.99	8.09	35.7	8.1
	2	8.54	8.49	8.59	38.7	
2,4-D	1	8.27	8.22	8.32	66.0	4.3
	2	8.87	8.82	8.92	63.2	
2,4,5-TP(Silvex)	1	9.14	9.09	9.19	22.4	19
	2	9.76	9.71	9.81	27.1	
2,4,5-T	1	9.43	9.38	9.48	27.2	2.2
	2	10.18	10.13	10.23	27.8	
DICAMBA	1	7.34	7.29	7.39	49.1	2.3
	2	7.83	7.78	7.88	48.0	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166763BS

Contract: NOBI03

Lab Code: CHEM Case No.: Q1382

SAS No.: Q1382 SDG NO.: Q1382

Lab Sample ID: PB166763BS

Date(s) Analyzed: 02/19/2025 02/19/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP ID: 0.32 (mm)

GC Column: (2): RTX-CLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
DICAMBA	1	7.34	7.29	7.39	163	0.6
	2	7.83	7.78	7.88	164	
Dalapon	1	2.61	2.56	2.66	154	2.6
	2	2.65	2.60	2.70	158	
DICHLORPROP	1	8.04	7.99	8.09	158	2.5
	2	8.54	8.49	8.59	162	
2,4-D	1	8.27	8.22	8.32	160	2.5
	2	8.87	8.82	8.92	164	
2,4,5-TP(Silvex)	1	9.14	9.09	9.19	166	0
	2	9.76	9.71	9.81	166	
2,4,5-T	1	9.43	9.38	9.48	165	0
	2	10.18	10.13	10.23	165	
2,4-DB	1	10.00	9.95	10.05	153	5.1
	2	10.74	10.69	10.79	161	
Dinoseb	1	11.20	11.15	11.25	161	0
	2	11.12	11.07	11.17	161	



QC SAMPLE DATA

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	PB166763BL	SDG No.:	Q1382
Lab Sample ID:	PB166763BL	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029208.D	1	02/18/25 13:16	02/19/25 17:09	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.033	U	0.0087	0.033	0.067	mg/Kg
75-99-0	DALAPON	0.050	U	0.025	0.050	0.067	mg/Kg
120-36-5	DICHLORPROP	0.033	U	0.0095	0.033	0.067	mg/Kg
94-75-7	2,4-D	0.033	U	0.012	0.033	0.067	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.033	U	0.0094	0.033	0.067	mg/Kg
93-76-5	2,4,5-T	0.033	U	0.010	0.033	0.067	mg/Kg
94-82-6	2,4-DB	0.033	U	0.018	0.033	0.067	mg/Kg
88-85-7	DINOSEB	0.050	U	0.012	0.050	0.067	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	475		27 - 122		95%	SPK: 500

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029208.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 17:09
 Operator : AR\AJ
 Sample : PB166763BL
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB166763BL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:32:15 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.159	7.637	776.1E6	459.8E6	465.714	475.251

Target Compounds

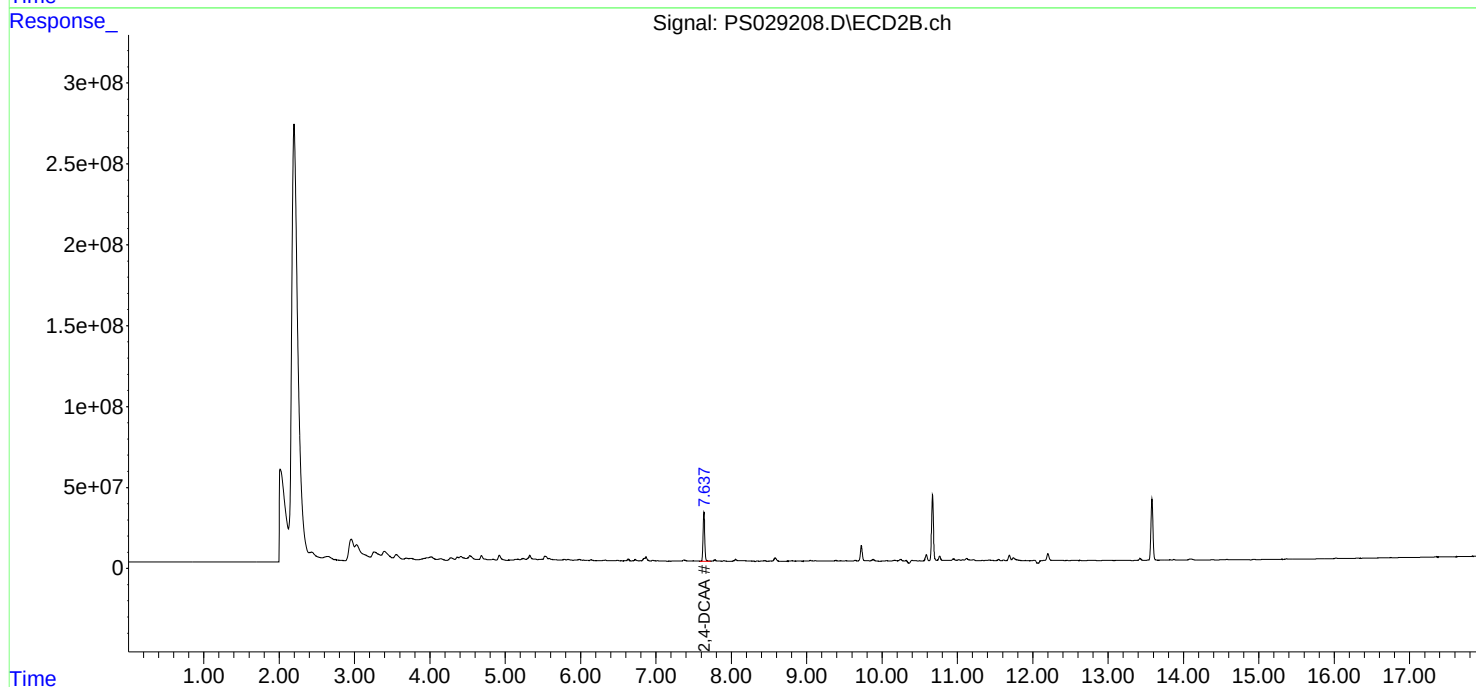
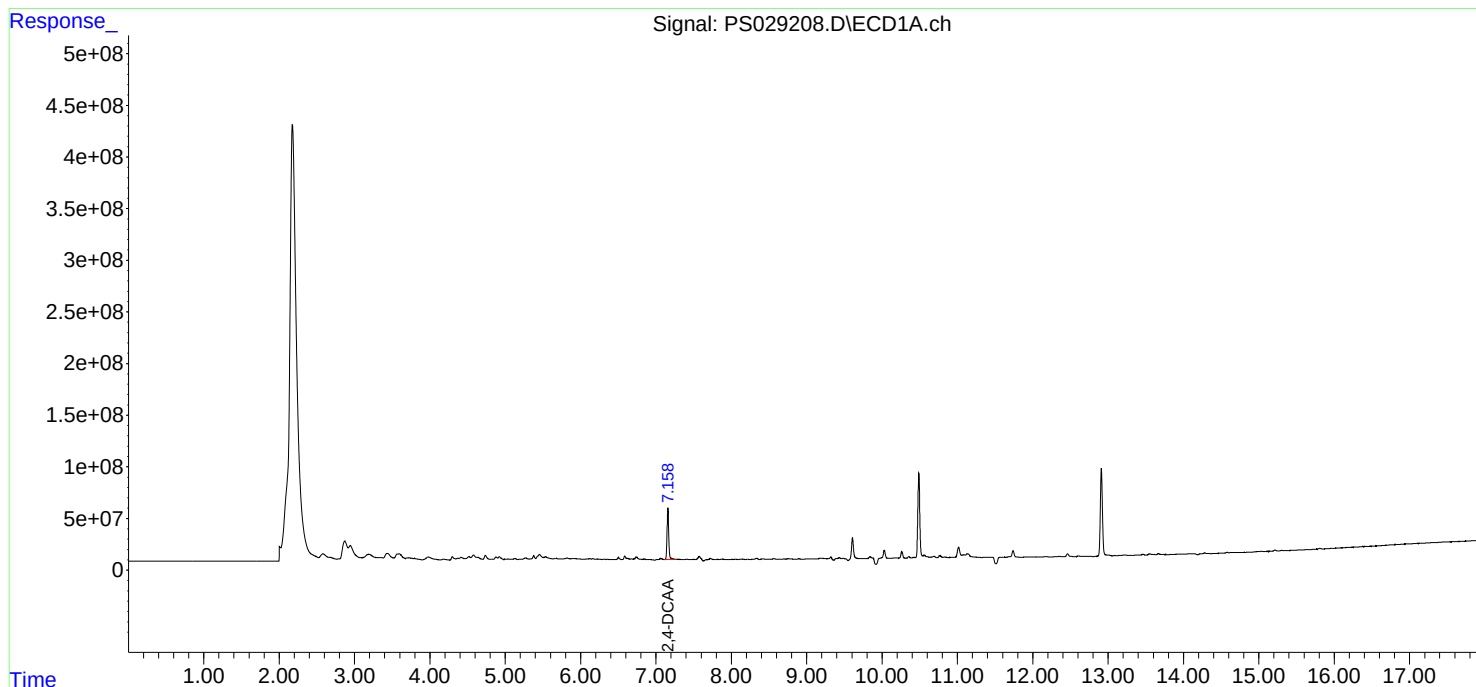
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

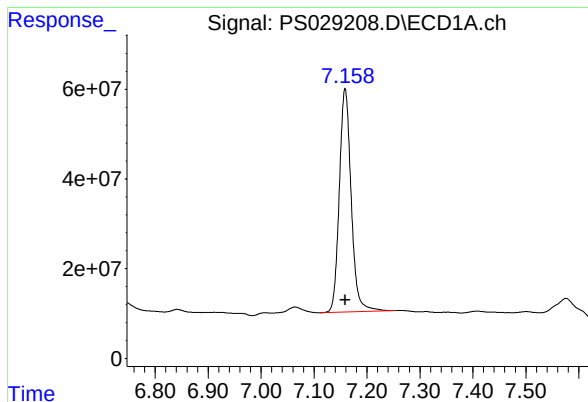
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029208.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 17:09
Operator : AR\AJ
Sample : PB166763BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB166763BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:32:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

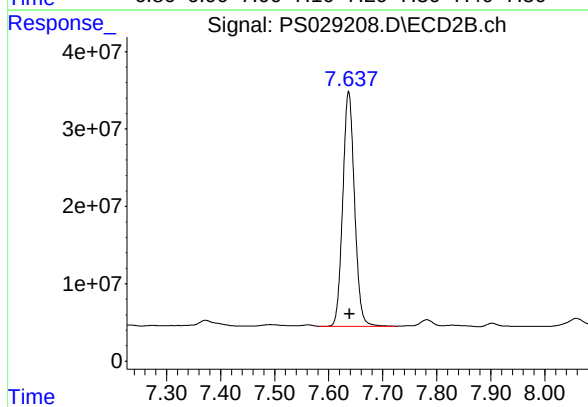




#4 2,4-DCAA

R.T.: 7.159 min
Delta R.T.: 0.000 min
Response: 776138820
Conc: 465.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166763BL



#4 2,4-DCAA

R.T.: 7.637 min
Delta R.T.: -0.002 min
Response: 459791186
Conc: 475.25 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/19/25
Project:	Raymark Superfund Site	Date Received:	02/19/25
Client Sample ID:	PIBLK-PS029190.D	SDG No.:	Q1382
Lab Sample ID:	I.BLK-PS029190.D	Matrix:	water
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029190.D	1		02/19/25	PS021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	499		32 - 138		100%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029190.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 09:27
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 12:41:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Wed Feb 19 12:36:23 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.158	7.638	820.0E6	482.6E6	492.050	498.798

Target Compounds

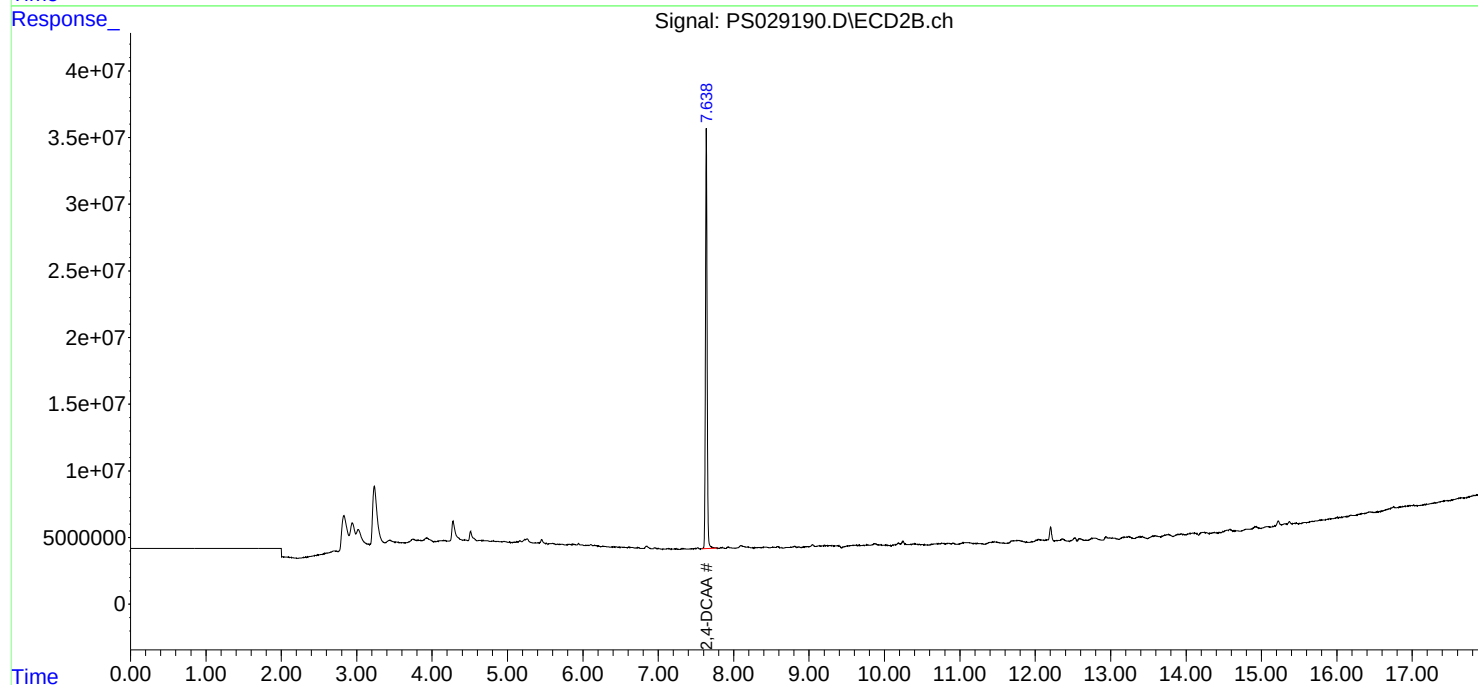
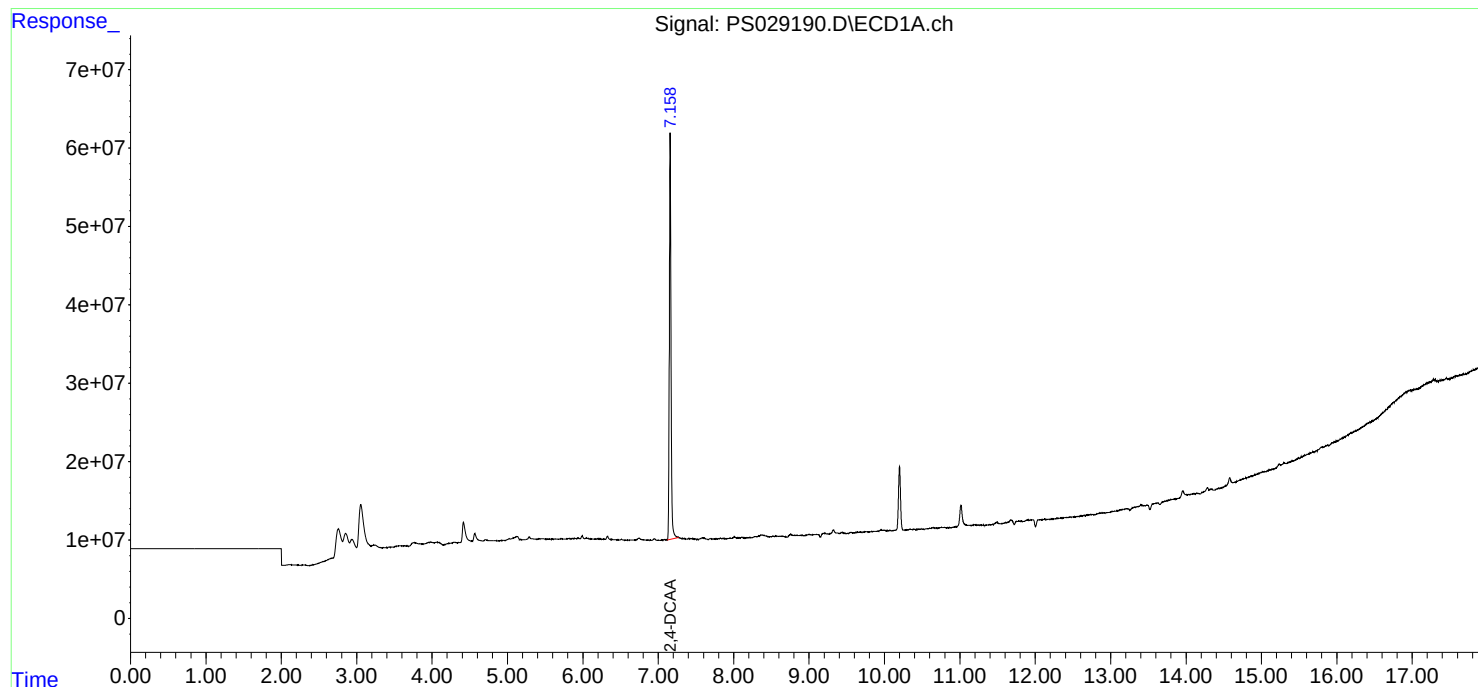
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

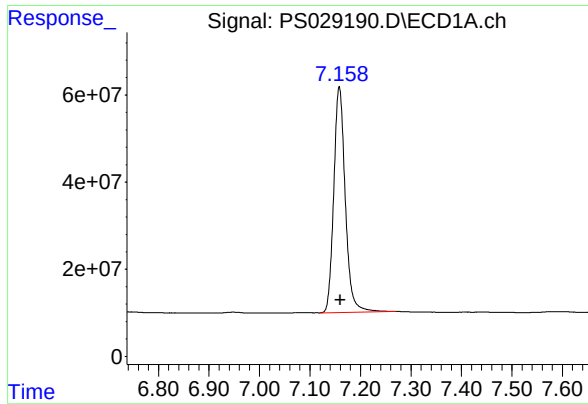
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029190.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 09:27
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 12:41:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Wed Feb 19 12:36:23 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

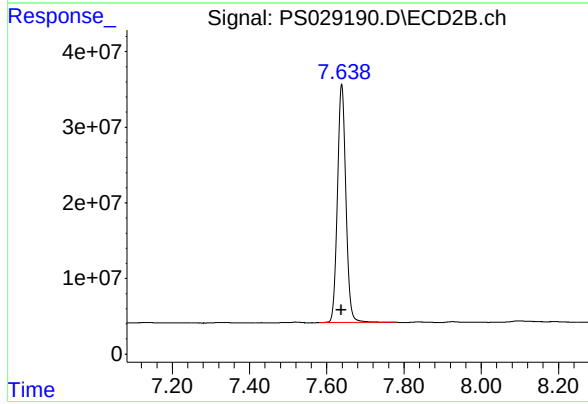




#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: -0.002 min
Response: 820028885
Conc: 492.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.638 min
Delta R.T.: 0.000 min
Response: 482572199
Conc: 498.80 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/19/25
Project:	Raymark Superfund Site	Date Received:	02/19/25
Client Sample ID:	PIBLK-PS029206.D	SDG No.:	Q1382
Lab Sample ID:	I.BLK-PS029206.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029206.D	1		02/19/25	ps021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	507		32 - 138		101%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029206.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 16:21
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:31:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds

4) S	2,4-DCAA	7.158	7.637	810.8E6	490.5E6	486.538	507.032

Target Compounds

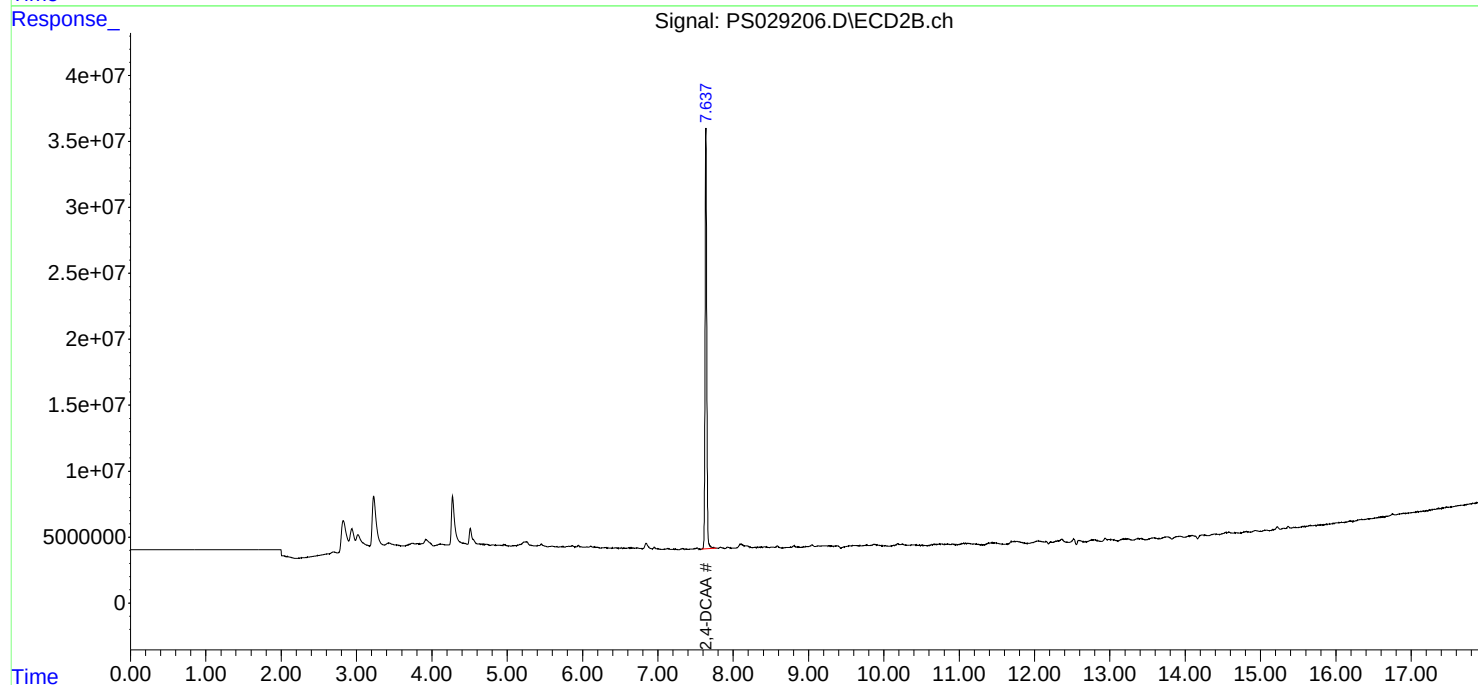
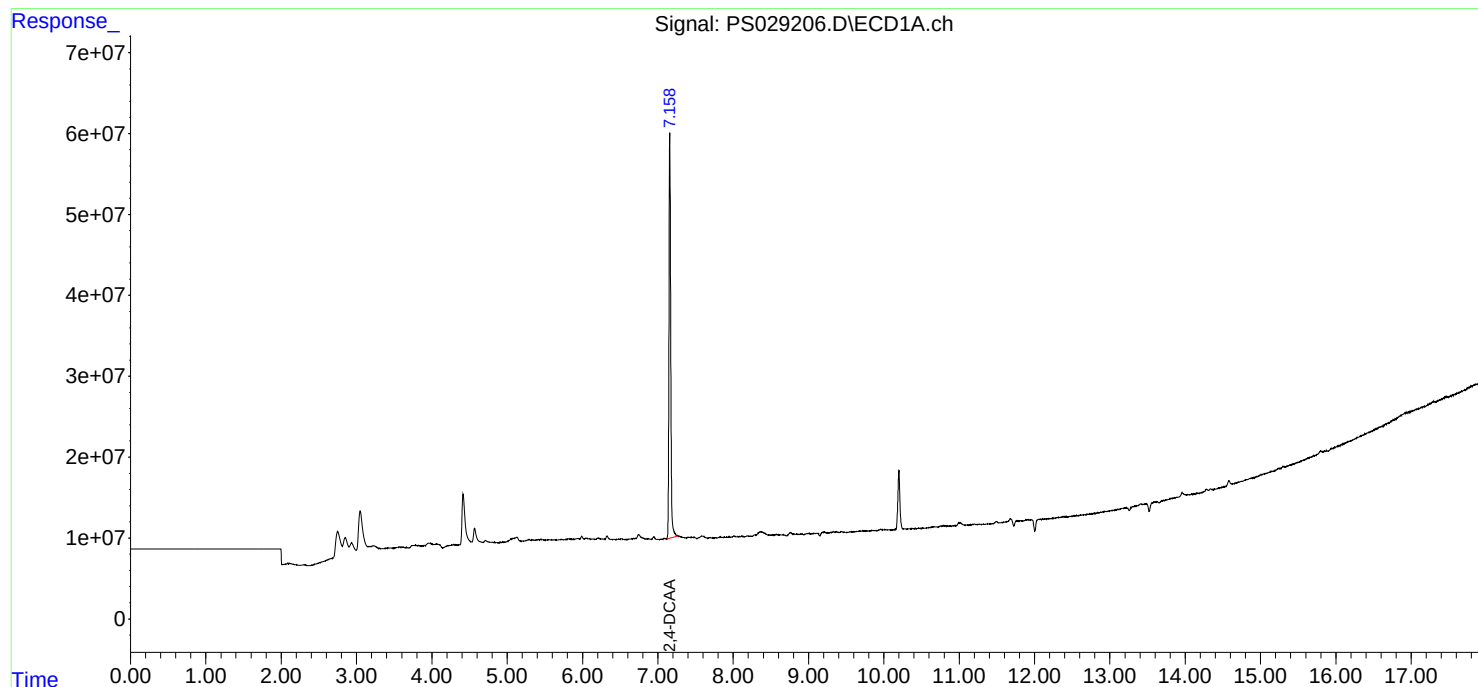
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

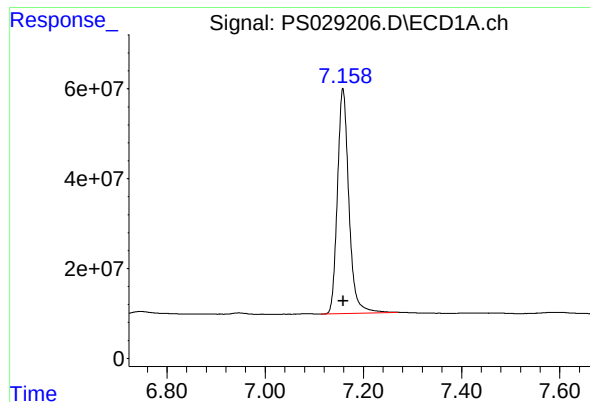
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029206.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 16:21
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:31:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#4 2,4-DCAA

R.T.: 7.158 min

Delta R.T.: 0.000 min

Response: 810843433

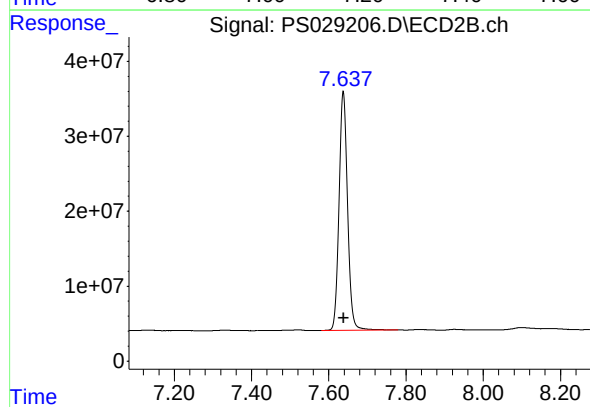
Conc: 486.54 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.637 min

Delta R.T.: -0.002 min

Response: 490537985

Conc: 507.03 ng/ml

Report of Analysis

Client:	Nobis Group		Date Collected:	02/19/25	
Project:	Raymark Superfund Site		Date Received:	02/19/25	
Client Sample ID:	PIBLK-PS029218.D		SDG No.:	Q1382	
Lab Sample ID:	I.BLK-PS029218.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029218.D	1		02/19/25	ps021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	500		32 - 138		100%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029218.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 21:09
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:36:04 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds

4) S	2,4-DCAA	7.158	7.637	730.5E6	483.5E6	438.315	499.755

Target Compounds

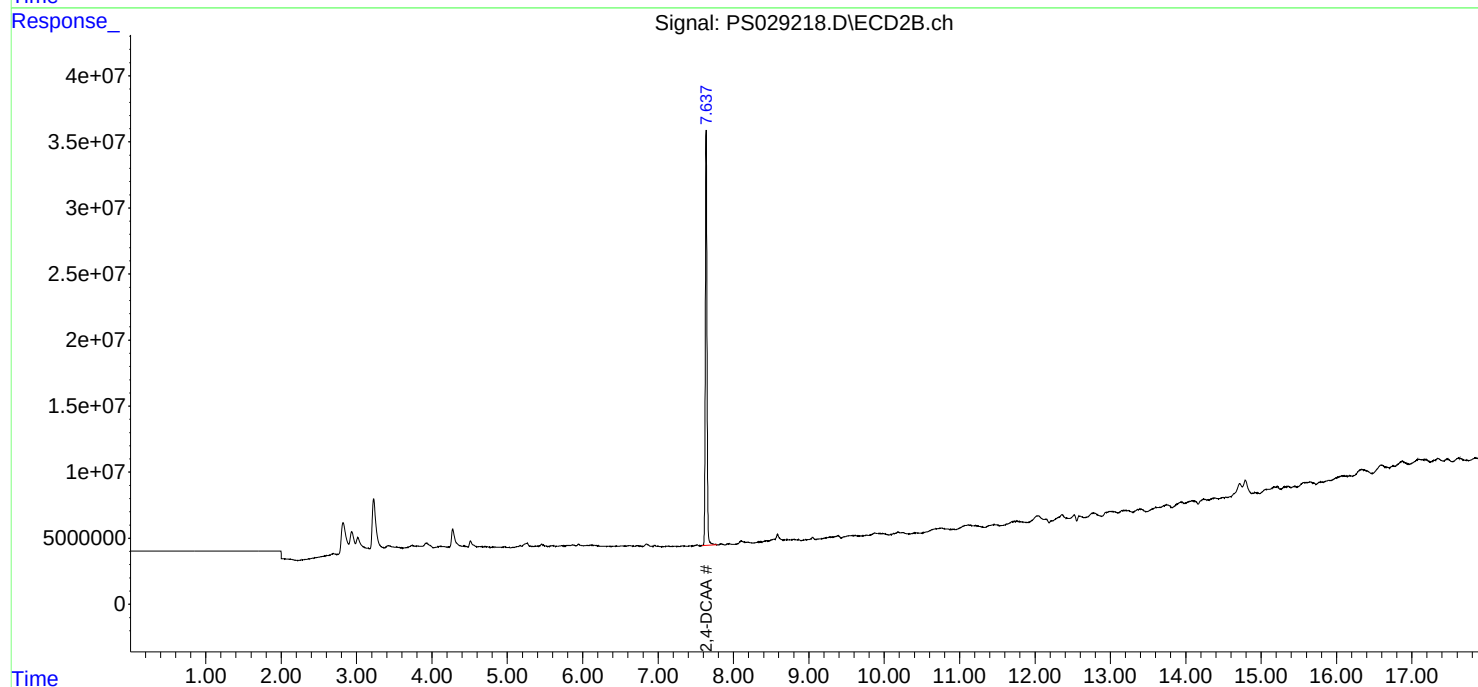
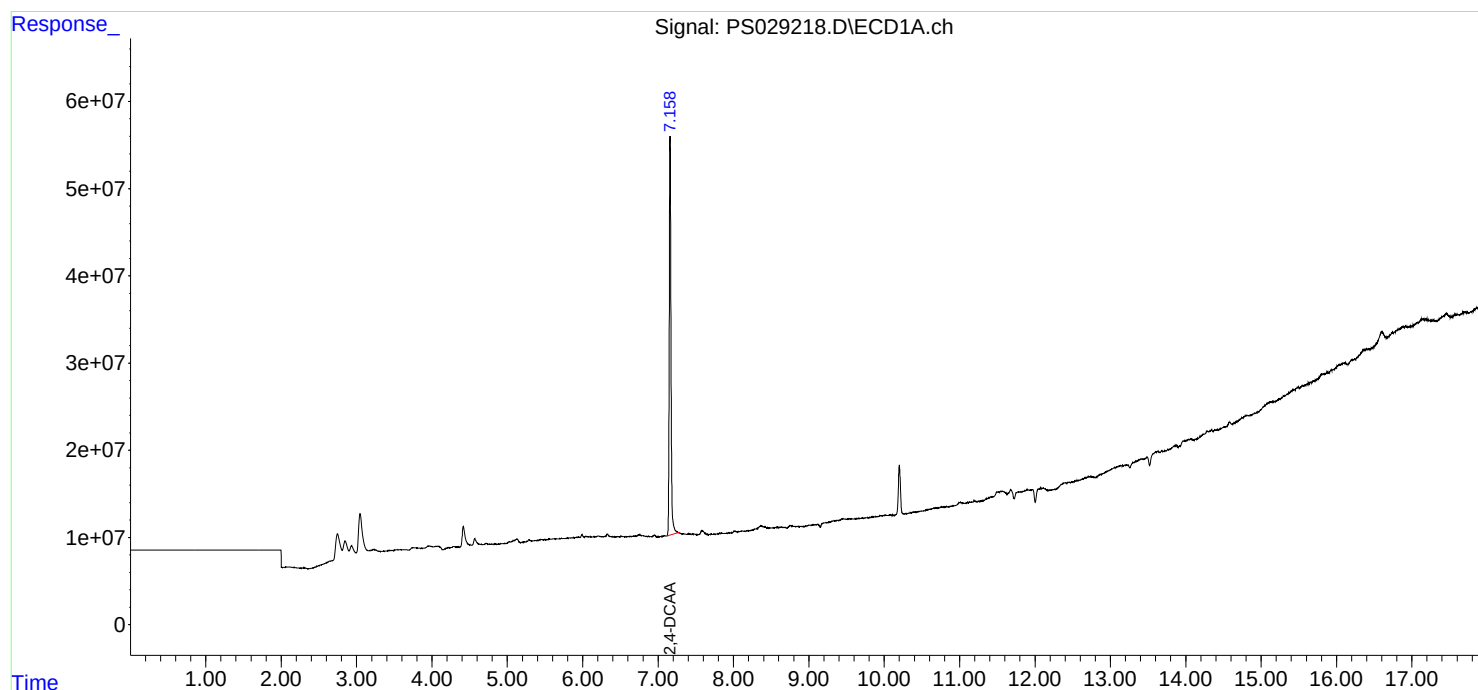
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

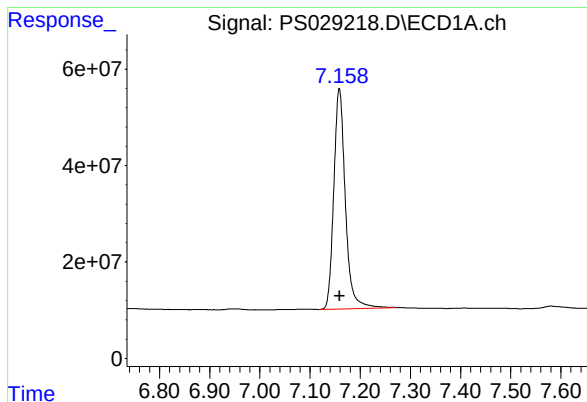
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029218.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 21:09
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:36:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#4 2,4-DCAA

R.T.: 7.158 min

Delta R.T.: 0.000 min

Response: 730477024

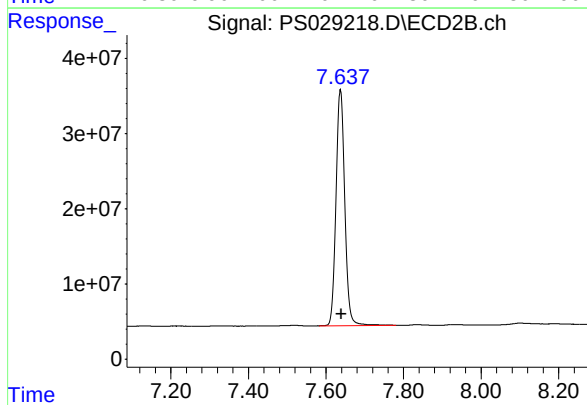
Conc: 438.31 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.637 min

Delta R.T.: -0.002 min

Response: 483497453

Conc: 499.75 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/21/25
Project:	Raymark Superfund Site	Date Received:	02/21/25
Client Sample ID:	PIBLK-PS029233.D	SDG No.:	Q1382
Lab Sample ID:	I.BLK-PS029233.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029233.D	1		02/21/25	ps022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	494		32 - 138		99%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029233.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 19:32
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 01:05:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.161	7.633	1959.5E6	464.9E6	475.547	494.404

Target Compounds

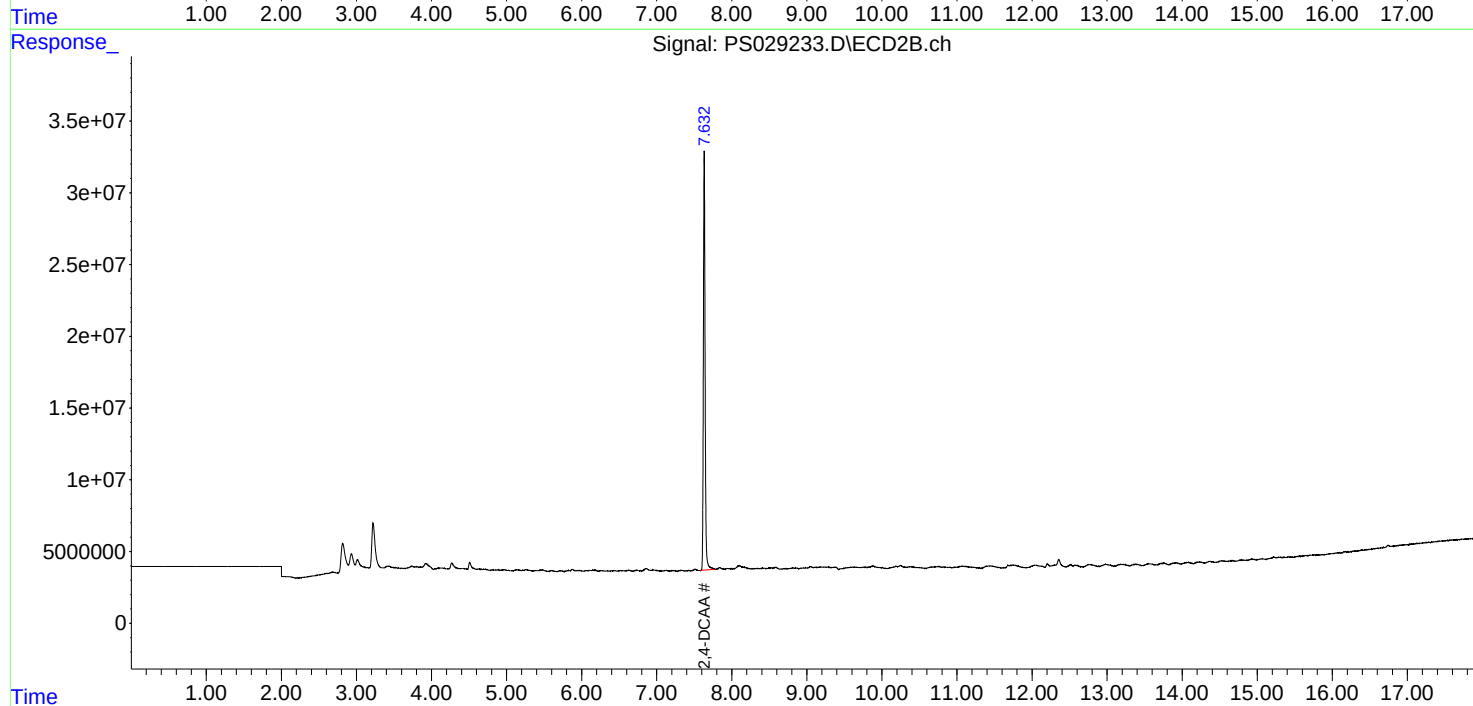
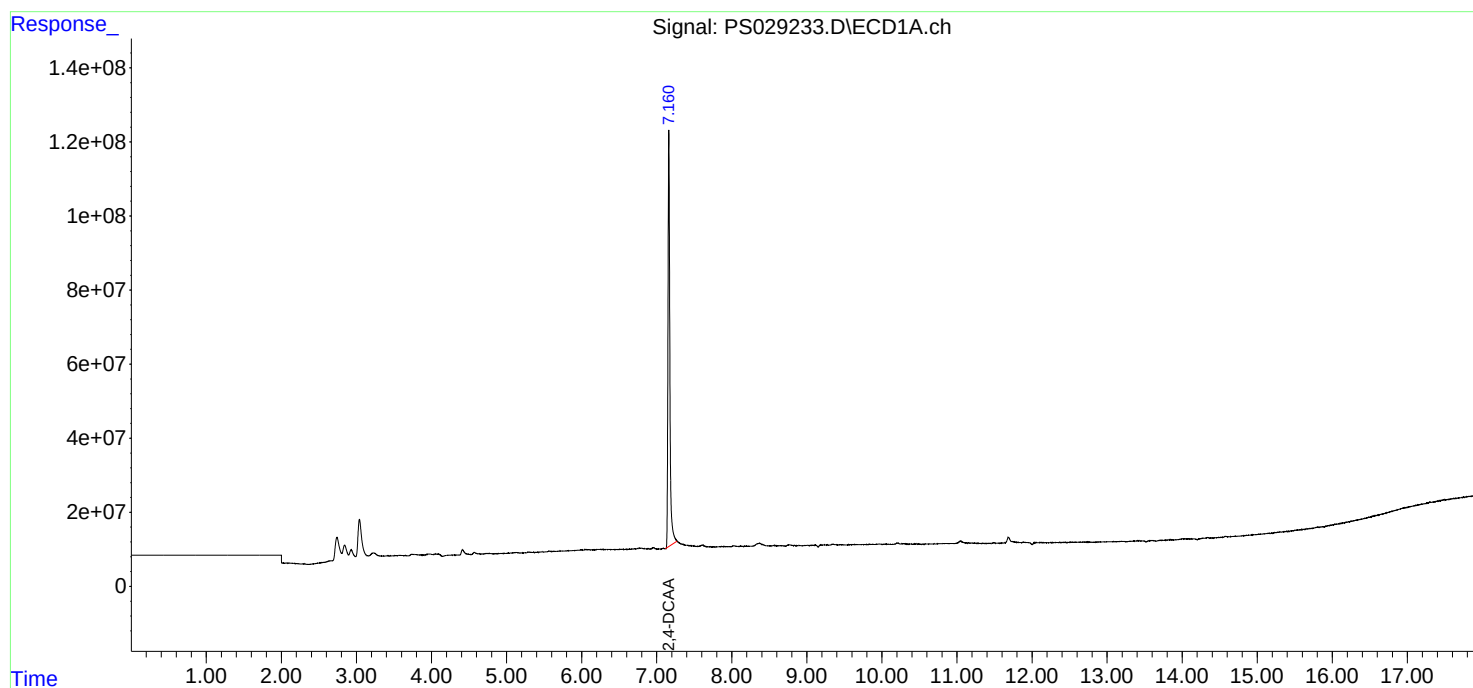
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

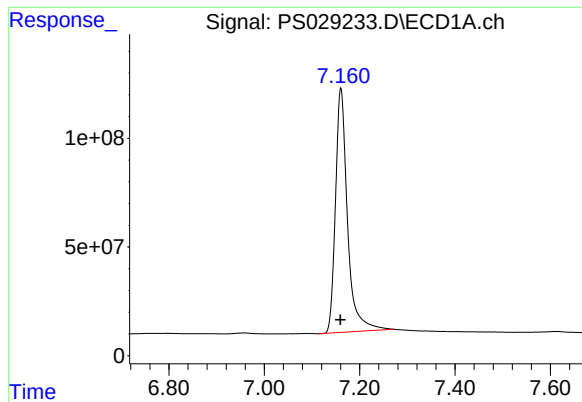
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022125\
Data File : PS029233.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 19:32
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 01:05:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

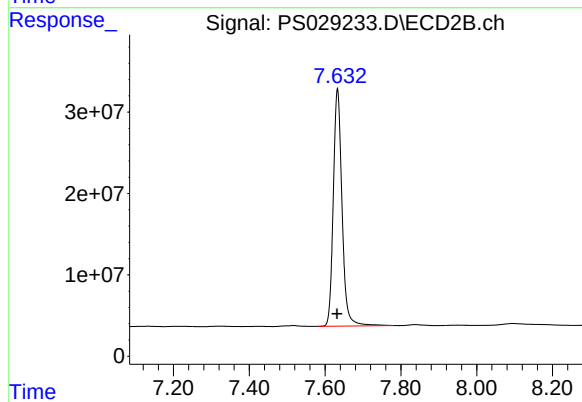




#4 2,4-DCAA

R.T.: 7.161 min
Delta R.T.: 0.000 min
Response: 1959528224
Conc: 475.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 464904309
Conc: 494.40 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/26/25
Project:	Raymark Superfund Site	Date Received:	02/26/25
Client Sample ID:	PIBLK-PS029290.D	SDG No.:	Q1382
Lab Sample ID:	I.BLK-PS029290.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029290.D	1		02/26/25	ps022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	522		32 - 138		104%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029290.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 09:53
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:00:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds

4) S	2,4-DCAA	7.159	7.628	2149.9E6	480.2E6	521.745	510.676

Target Compounds

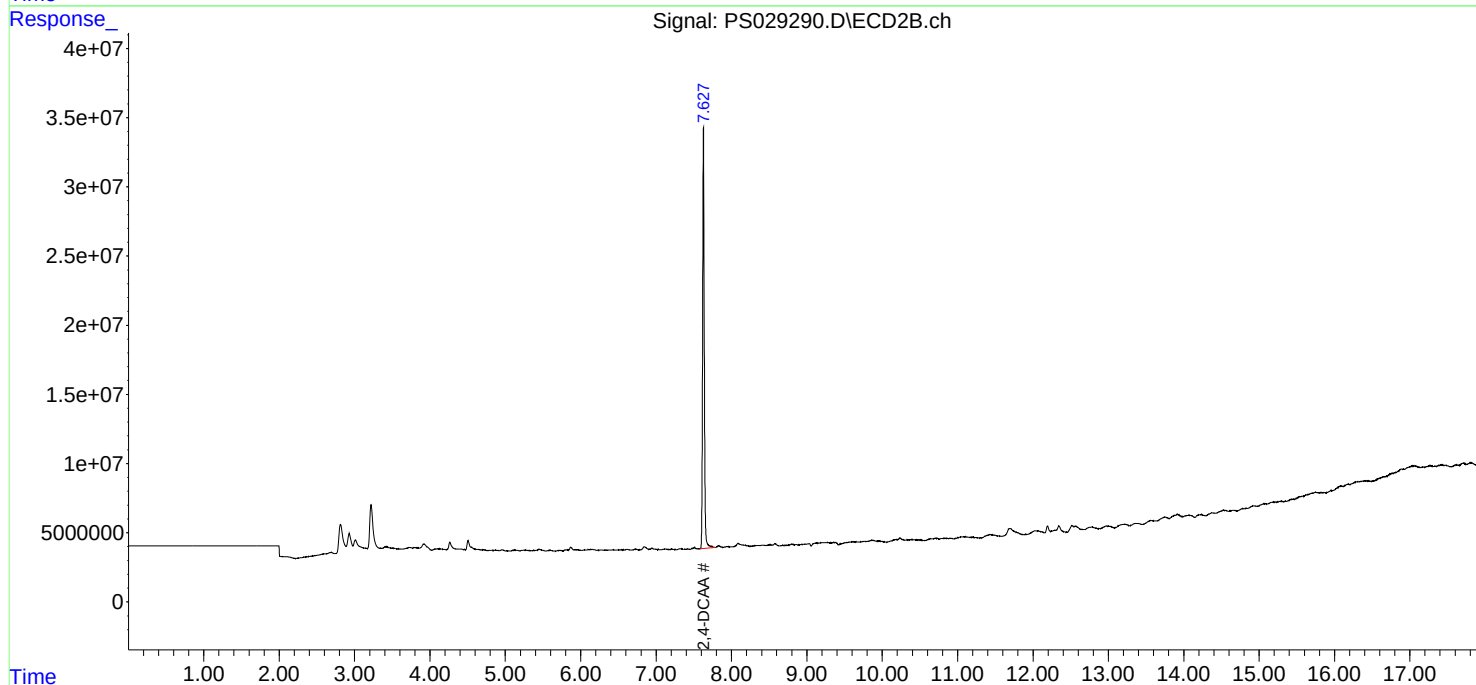
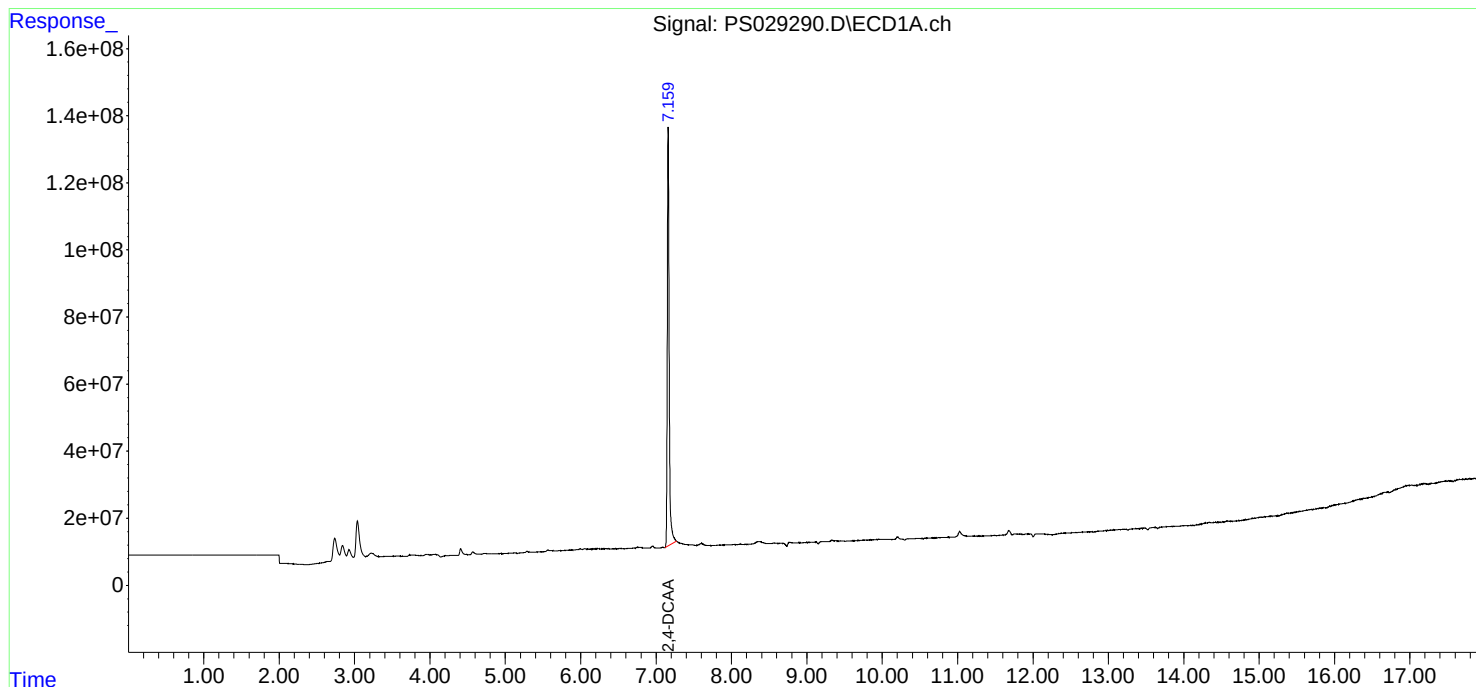
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

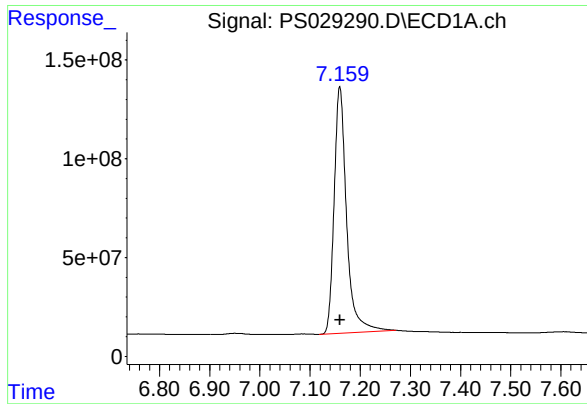
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029290.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 09:53
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:00:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#4 2,4-DCAA

R.T.: 7.159 min

Delta R.T.: 0.000 min

Response: 2149889136

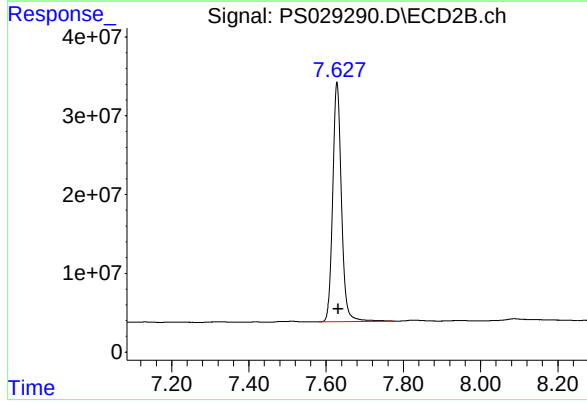
Conc: 521.74 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.628 min

Delta R.T.: -0.004 min

Response: 480205536

Conc: 510.68 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/26/25
Project:	Raymark Superfund Site	Date Received:	02/26/25
Client Sample ID:	PIBLK-PS029302.D	SDG No.:	Q1382
Lab Sample ID:	I.BLK-PS029302.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029302.D	1		02/26/25	ps022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	531		32 - 138		106%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029302.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 18:59
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:05:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds

4) S	2,4-DCAA	7.159	7.627	2186.5E6	495.5E6	530.623	526.971

Target Compounds

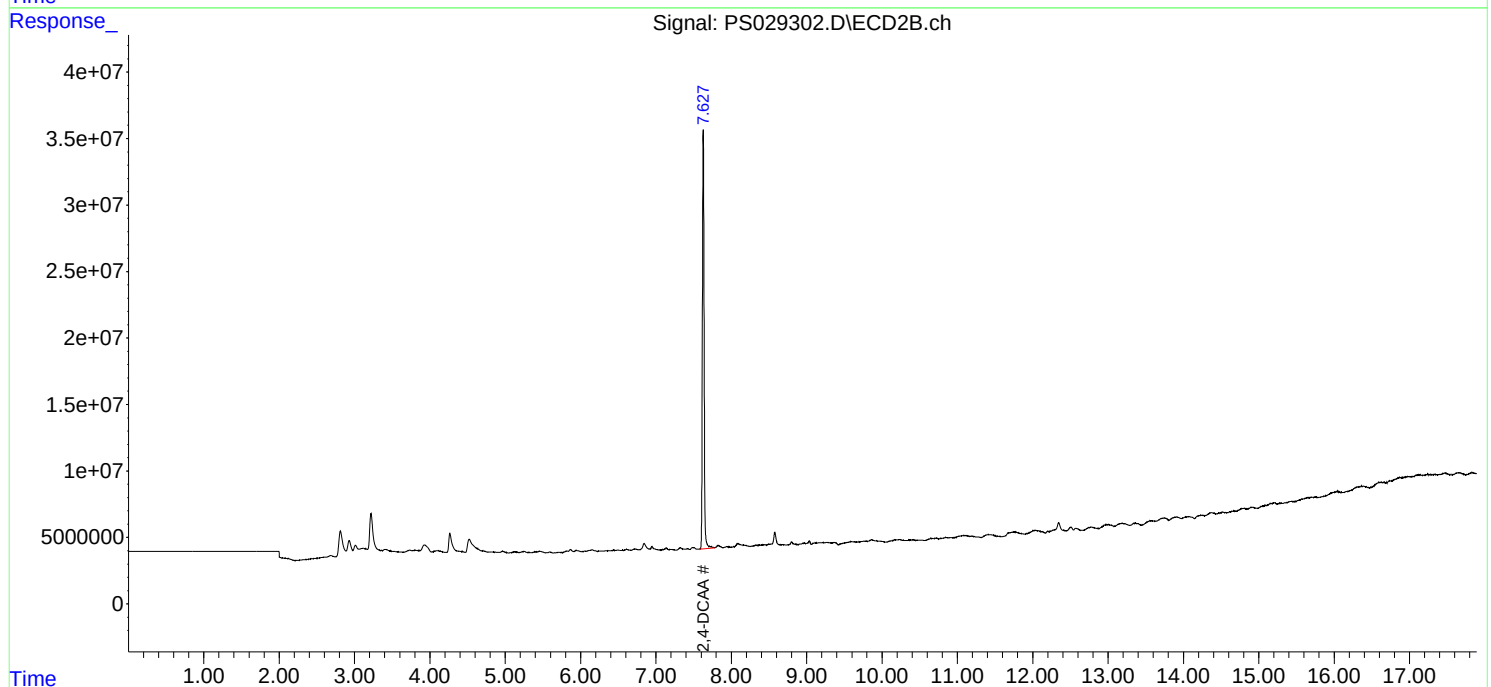
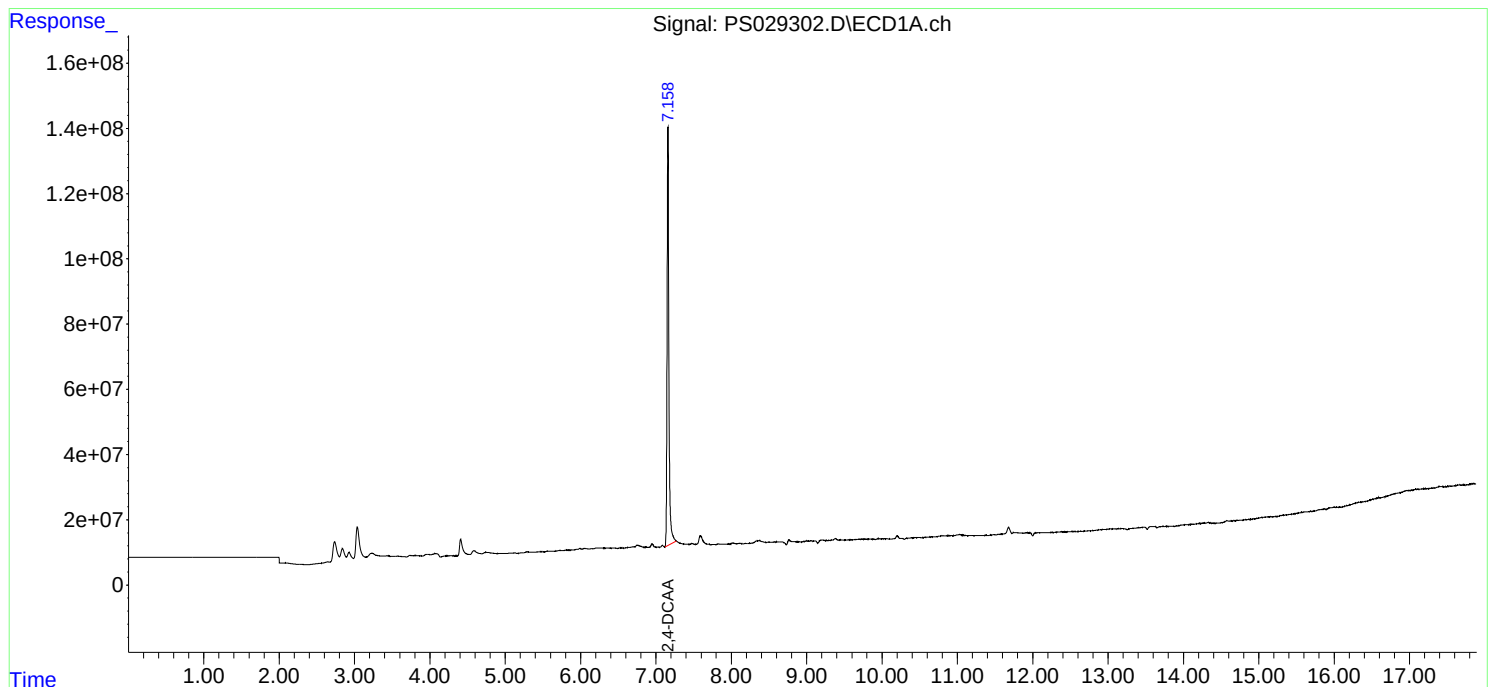
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

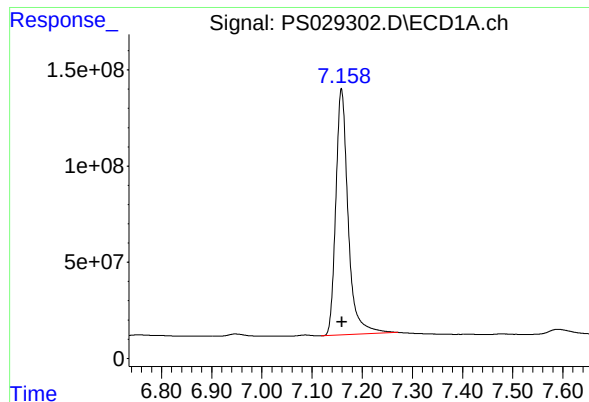
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS022625\
Data File : PS029302.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 18:59
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 04:05:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS022125.M
Quant Title : 8080.M
QLast Update : Sat Feb 22 01:02:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#4 2,4-DCAA

R.T.: 7.159 min

Delta R.T.: -0.001 min

Response: 2186474185

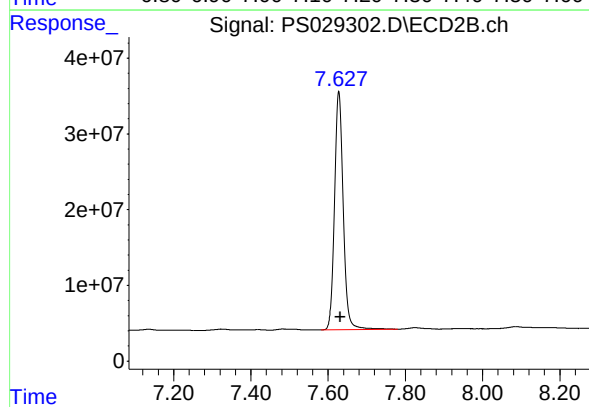
Conc: 530.62 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.627 min

Delta R.T.: -0.005 min

Response: 495528357

Conc: 526.97 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	PB166763BS	SDG No.:	Q1382
Lab Sample ID:	PB166763BS	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029209.D	1	02/18/25 13:16	02/19/25 17:33	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.16		0.0087	0.033	0.067	mg/Kg
75-99-0	DALAPON	0.16		0.025	0.050	0.067	mg/Kg
120-36-5	DICHLORPROP	0.16		0.0095	0.033	0.067	mg/Kg
94-75-7	2,4-D	0.16		0.012	0.033	0.067	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.17		0.0094	0.033	0.067	mg/Kg
93-76-5	2,4,5-T	0.17		0.010	0.033	0.067	mg/Kg
94-82-6	2,4-DB	0.16		0.018	0.033	0.067	mg/Kg
88-85-7	DINOSEB	0.16		0.012	0.050	0.067	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	523		27 - 122		105%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029209.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 17:33
 Operator : AR\AJ
 Sample : PB166763BS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB166763BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:32:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.158	7.637	859.8E6	505.6E6	515.897	522.578
Target Compounds							
1) T	Dalapon	2.606	2.652	1521.3E6	1005.4E6	462.744	473.238
2) T	3,5-DICHL...	6.341	6.608	1197.3E6	713.4E6	480.770	489.968
3) T	4-Nitroph...	6.957	7.167	672.1E6	404.3E6	468.771	472.137
5) T	DICAMBA	7.342	7.832	4296.9E6	2595.3E6	489.681	491.256
6) T	MCPD	7.521	7.936	152.6E6	112.8E6	48.401	49.461
7) T	MCPA	7.669	8.175	209.1E6	153.7E6	46.582	48.758
8) T	DICHLORPROP	8.042	8.542	1057.9E6	637.7E6	474.141	486.658
9) T	2,4-D	8.270	8.867	1093.6E6	645.6E6	481.134	492.141
10) T	Pentachlo...	8.564	9.386	21793.2E6	12077.0E6	523.460	507.617
11) T	2,4,5-TP ...	9.139	9.763	8044.3E6	4678.7E6	498.875	498.980
12) T	2,4,5-T	9.429	10.178	7535.8E6	4275.5E6	495.032	494.077
13) T	2,4-DB	9.997	10.742	1110.2E6	412.0E6	459.302	481.830
14) T	DINOSEB	11.196	11.118	6139.9E6	3130.4E6	483.232	483.410
15) T	Picloram	11.008	12.195	11154.4E6	5219.3E6	426.831	416.207
16) T	DCPA	11.491	12.154	13349.1E6	6262.6E6	510.389	504.153

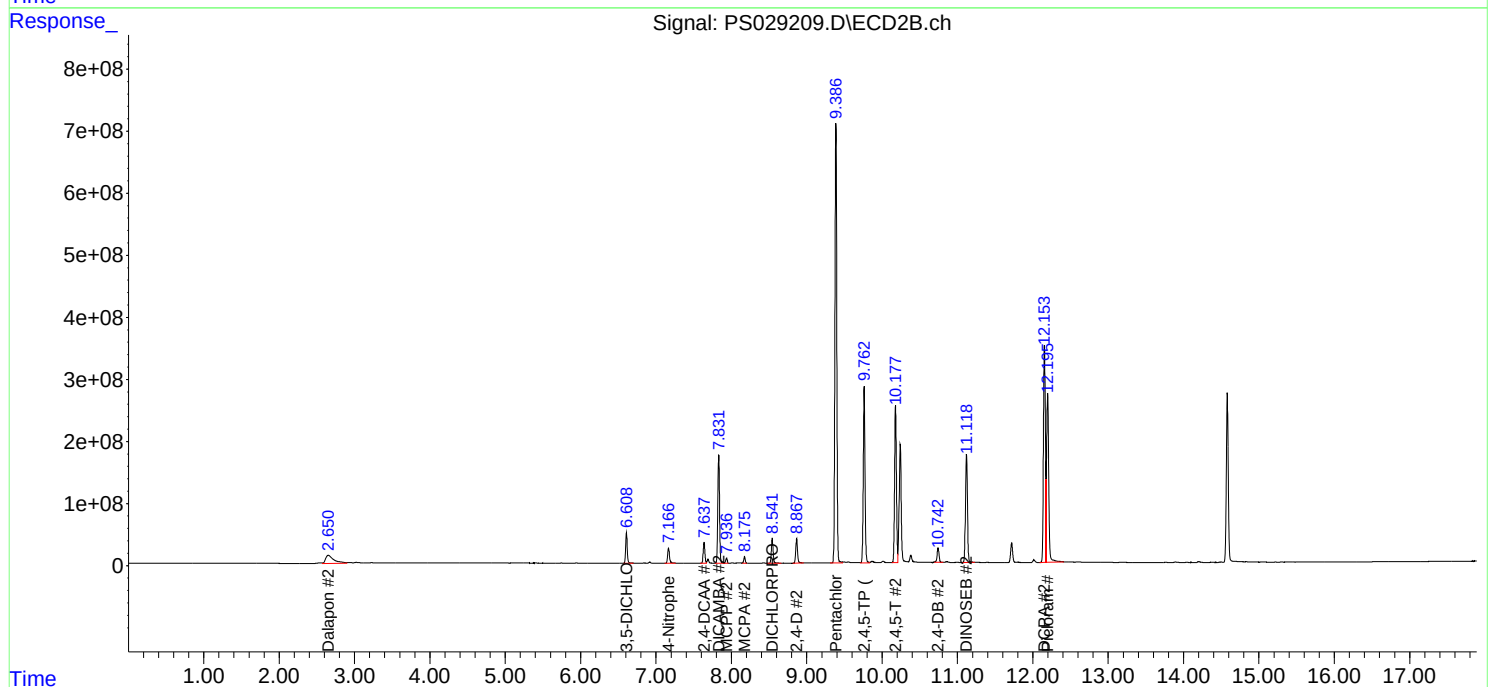
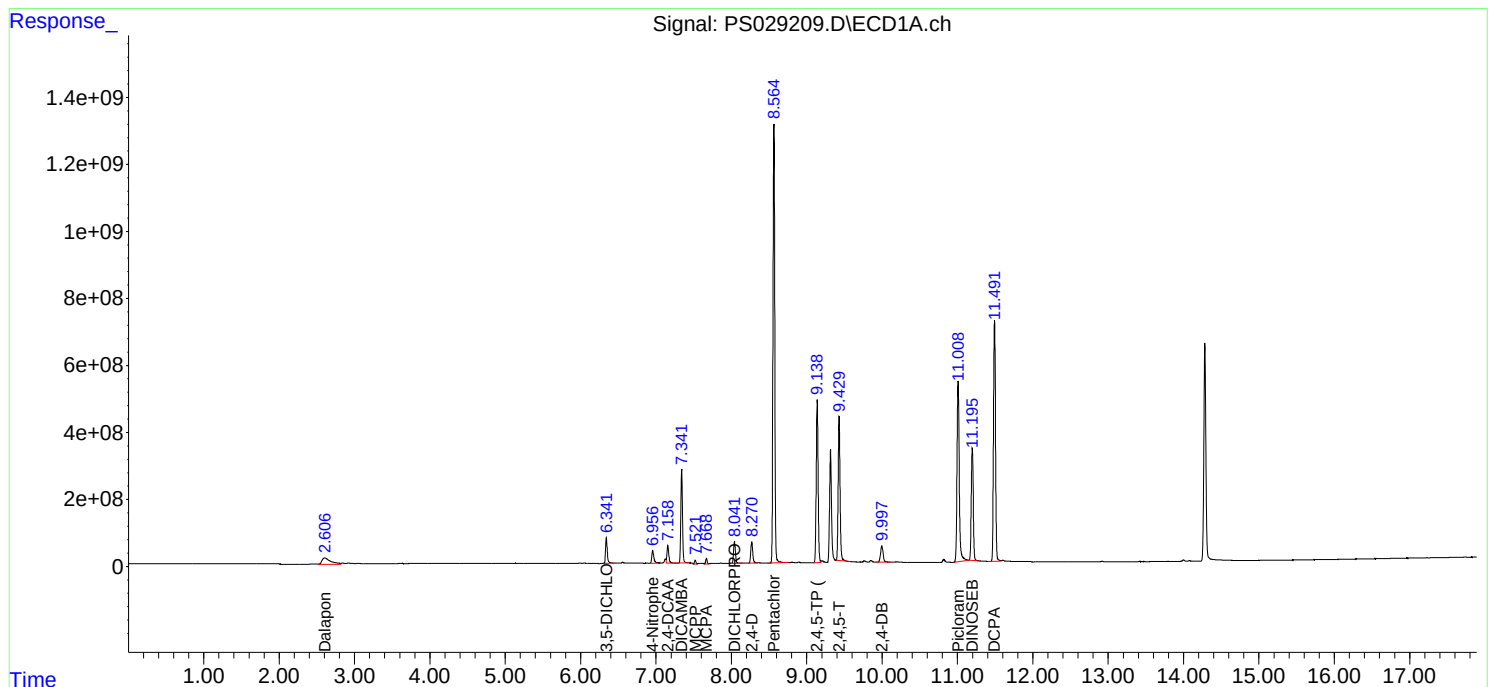
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

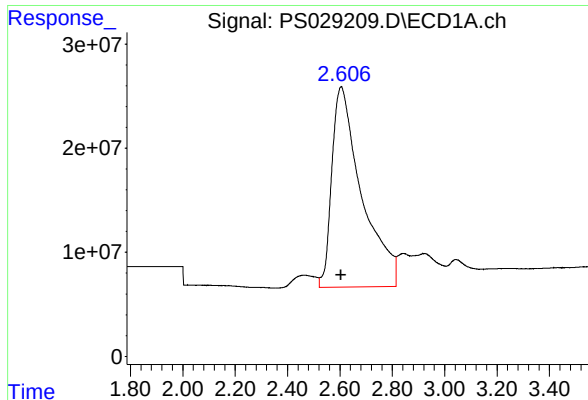
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029209.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 17:33
Operator : AR\AJ
Sample : PB166763BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB166763BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:32:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

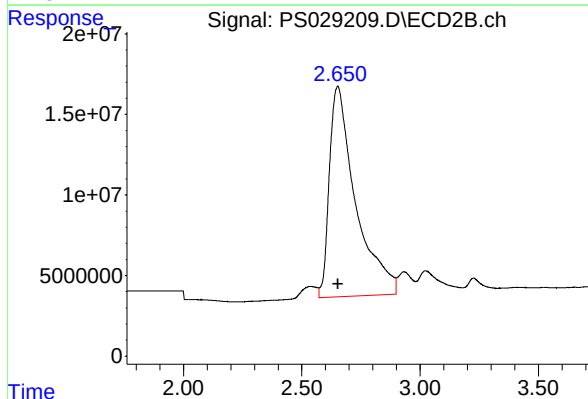




#1 Dalapon

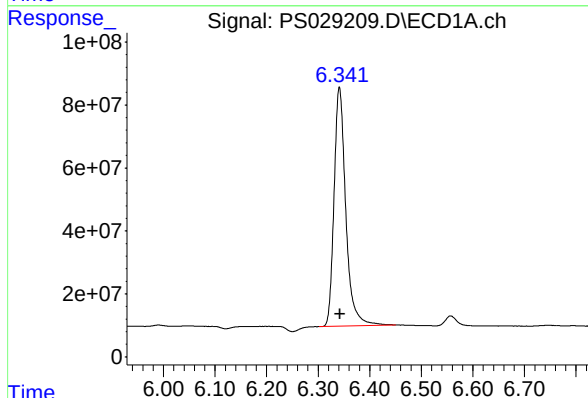
R.T.: 2.606 min
Delta R.T.: 0.002 min
Response: 1521266063
Conc: 462.74 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166763BS



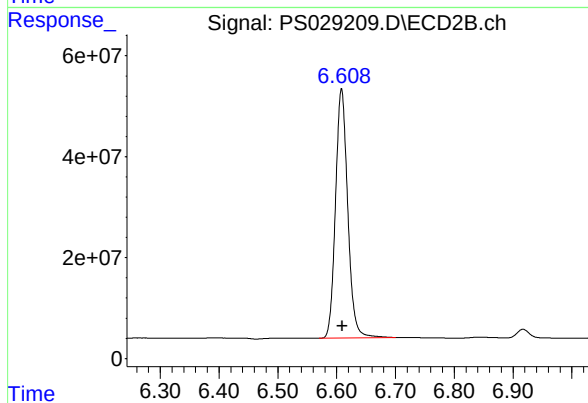
#1 Dalapon

R.T.: 2.652 min
Delta R.T.: -0.001 min
Response: 1005400028
Conc: 473.24 ng/ml



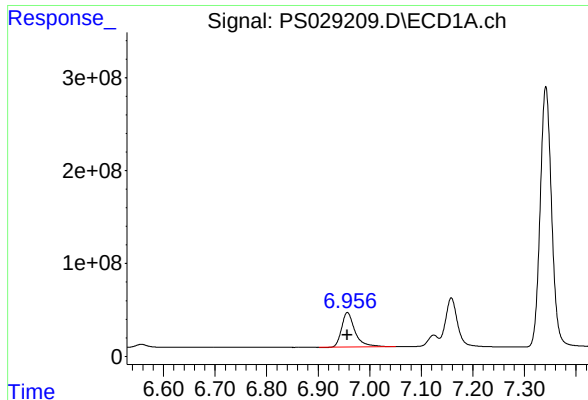
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.341 min
Delta R.T.: 0.000 min
Response: 1197329166
Conc: 480.77 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

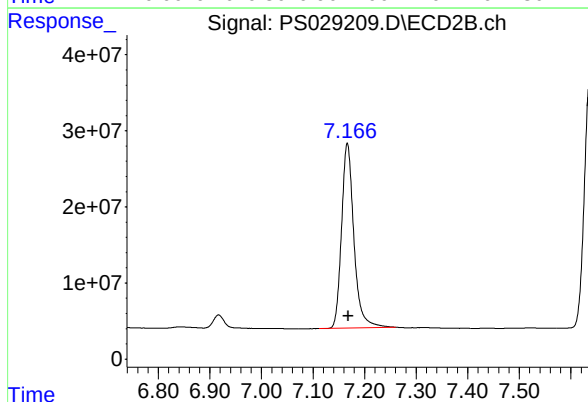
R.T.: 6.608 min
Delta R.T.: -0.002 min
Response: 713374813
Conc: 489.97 ng/ml



#3 4-Nitrophenol

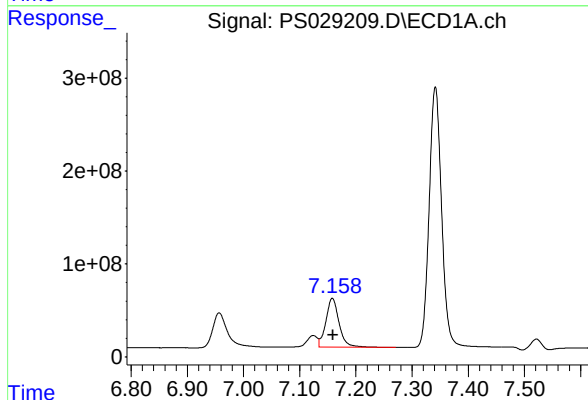
R.T.: 6.957 min
Delta R.T.: 0.000 min
Response: 672149848
Conc: 468.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166763BS



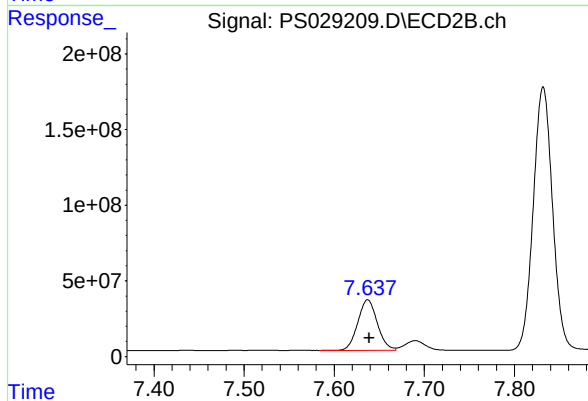
#3 4-Nitrophenol

R.T.: 7.167 min
Delta R.T.: -0.002 min
Response: 404327762
Conc: 472.14 ng/ml



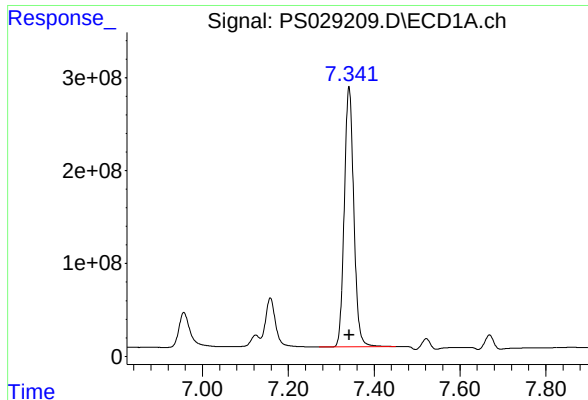
#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: 0.000 min
Response: 859771706
Conc: 515.90 ng/ml



#4 2,4-DCAA

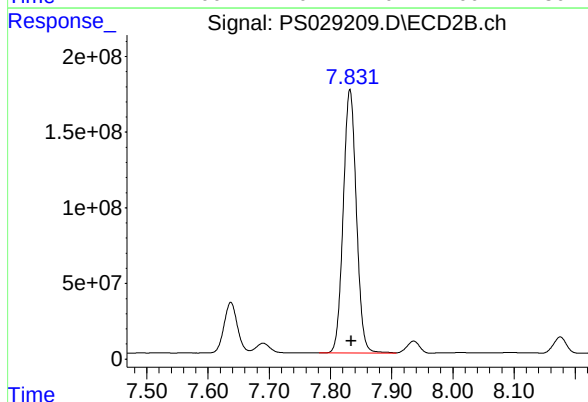
R.T.: 7.637 min
Delta R.T.: -0.002 min
Response: 505578243
Conc: 522.58 ng/ml



#5 DICAMBA

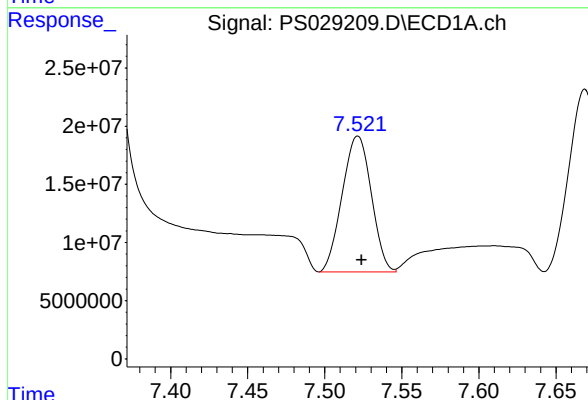
R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 4296932115
Conc: 489.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166763BS



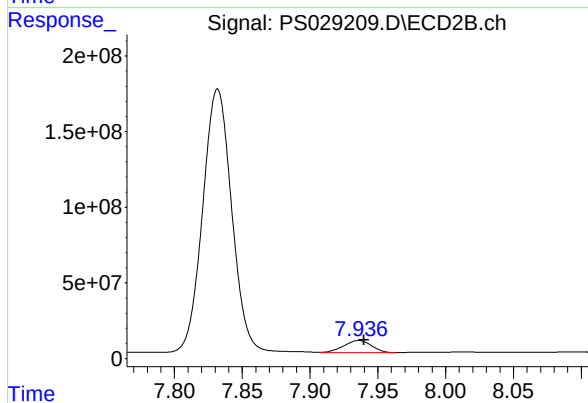
#5 DICAMBA

R.T.: 7.832 min
Delta R.T.: -0.002 min
Response: 2595292673
Conc: 491.26 ng/ml



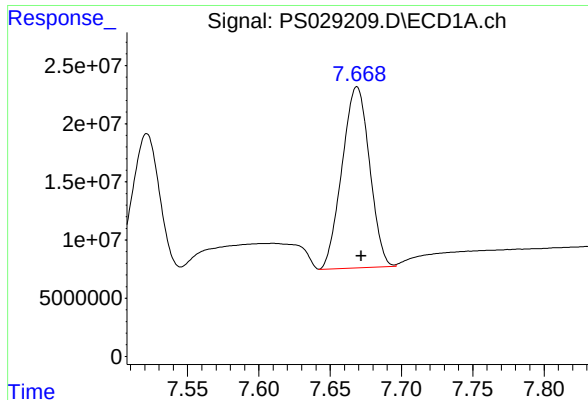
#6 MCPP

R.T.: 7.521 min
Delta R.T.: -0.003 min
Response: 152578431
Conc: 48.40 ug/ml



#6 MCPP

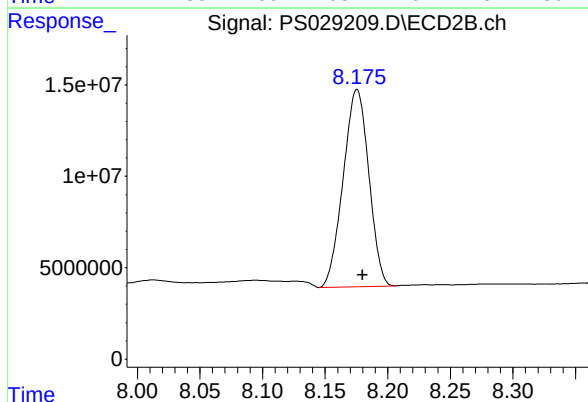
R.T.: 7.936 min
Delta R.T.: -0.004 min
Response: 112841136
Conc: 49.46 ug/ml



#7 MCPA

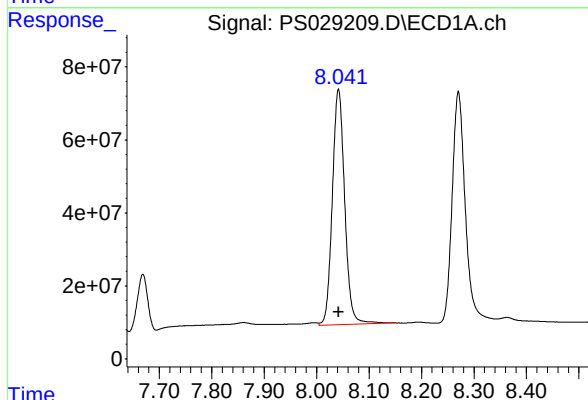
R.T.: 7.669 min
Delta R.T.: -0.003 min
Response: 209092247
Conc: 46.58 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB166763BS



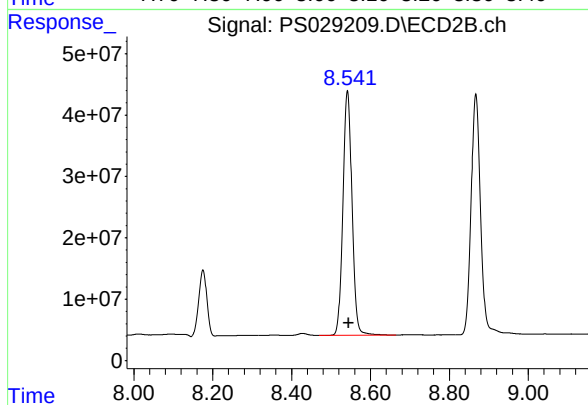
#7 MCPA

R.T.: 8.175 min
Delta R.T.: -0.004 min
Response: 153671338
Conc: 48.76 ug/ml



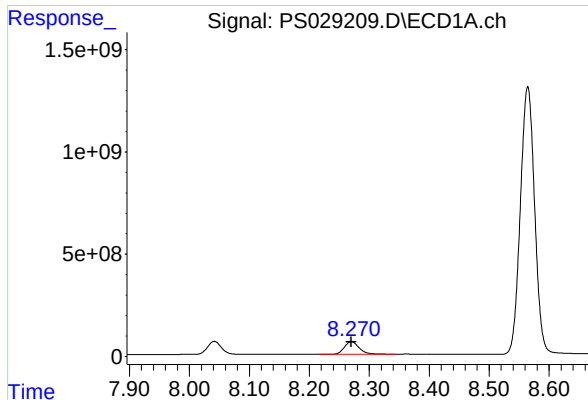
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 1057904026
Conc: 474.14 ng/ml



#8 DICHLORPROP

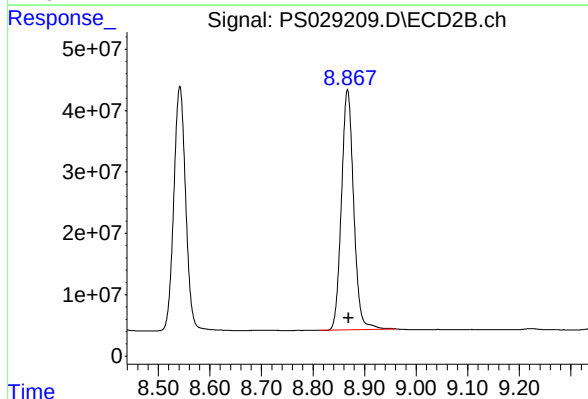
R.T.: 8.542 min
Delta R.T.: -0.002 min
Response: 637732529
Conc: 486.66 ng/ml



#9 2,4-D

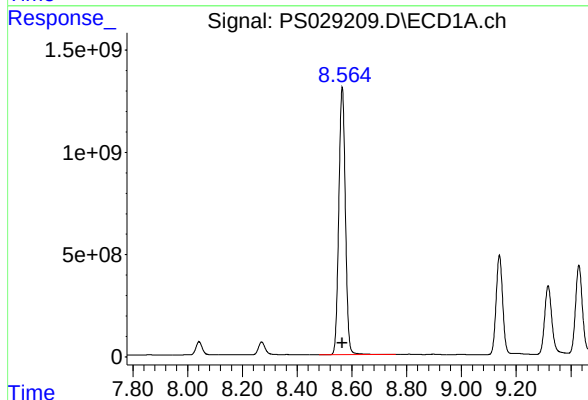
R.T.: 8.270 min
Delta R.T.: 0.000 min
Response: 1093649512
Conc: 481.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166763BS



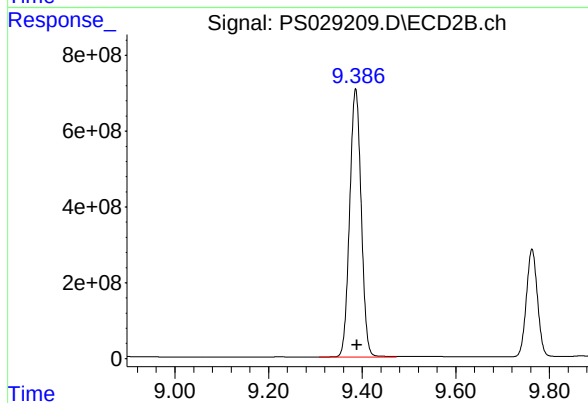
#9 2,4-D

R.T.: 8.867 min
Delta R.T.: -0.002 min
Response: 645583507
Conc: 492.14 ng/ml



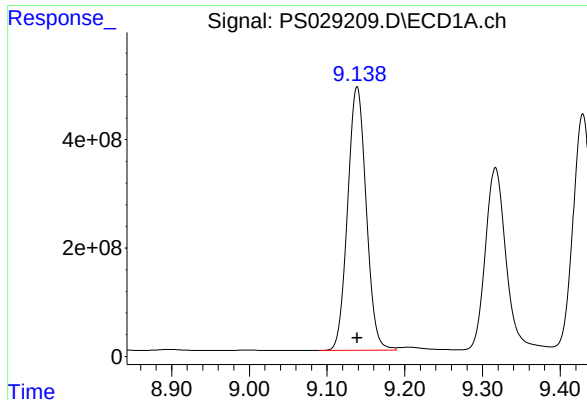
#10 Pentachlorophenol

R.T.: 8.564 min
Delta R.T.: 0.000 min
Response: 21793206010
Conc: 523.46 ng/ml



#10 Pentachlorophenol

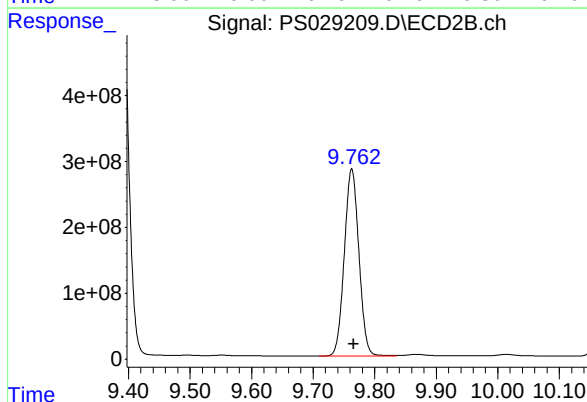
R.T.: 9.386 min
Delta R.T.: -0.002 min
Response: 12077004943
Conc: 507.62 ng/ml



#11 2,4,5-TP (SILVEX)

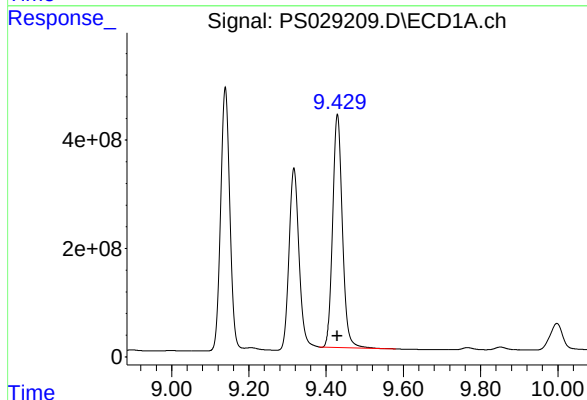
R.T.: 9.139 min
Delta R.T.: 0.000 min
Response: 8044300551
Conc: 498.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166763BS



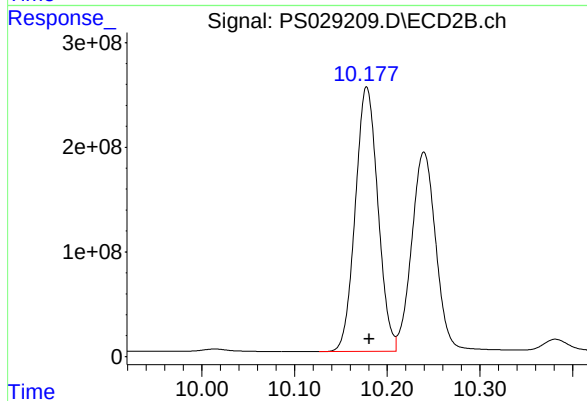
#11 2,4,5-TP (SILVEX)

R.T.: 9.763 min
Delta R.T.: -0.003 min
Response: 4678653983
Conc: 498.98 ng/ml



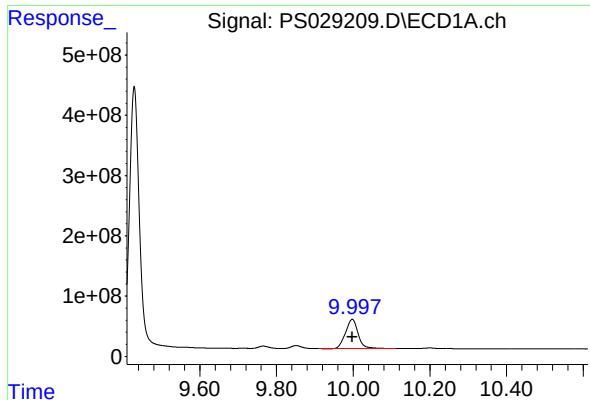
#12 2,4,5-T

R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 7535777064
Conc: 495.03 ng/ml



#12 2,4,5-T

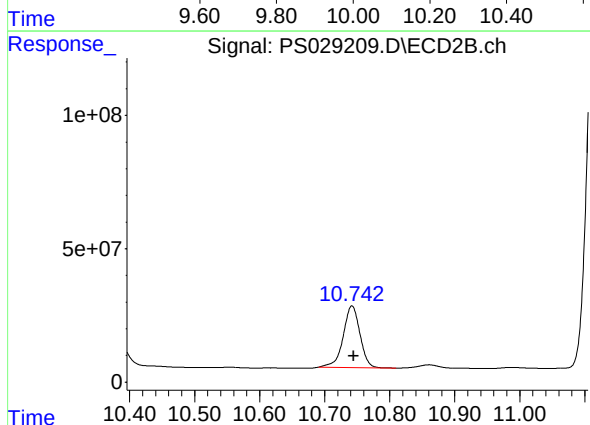
R.T.: 10.178 min
Delta R.T.: -0.003 min
Response: 4275492016
Conc: 494.08 ng/ml



#13 2,4-DB

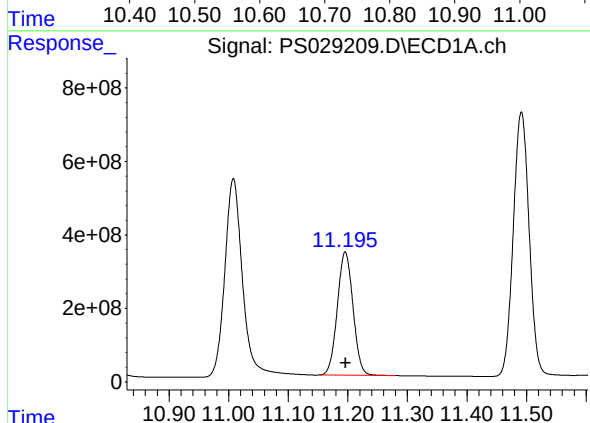
R.T.: 9.997 min
Delta R.T.: 0.000 min
Response: 1110172131
Conc: 459.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166763BS



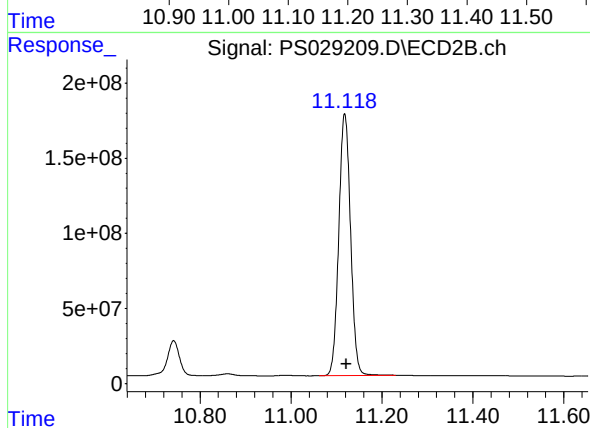
#13 2,4-DB

R.T.: 10.742 min
Delta R.T.: -0.003 min
Response: 412015028
Conc: 481.83 ng/ml



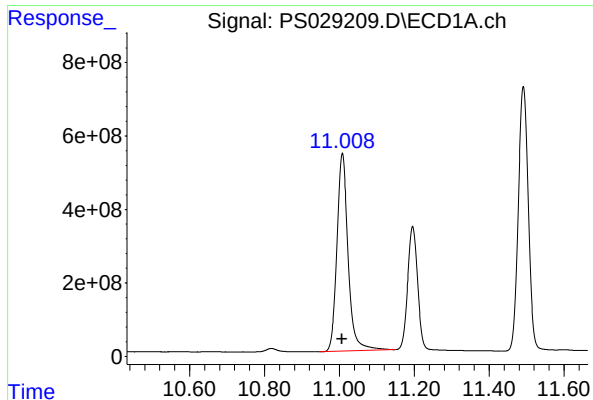
#14 DINOSEB

R.T.: 11.196 min
Delta R.T.: 0.000 min
Response: 6139872338
Conc: 483.23 ng/ml



#14 DINOSEB

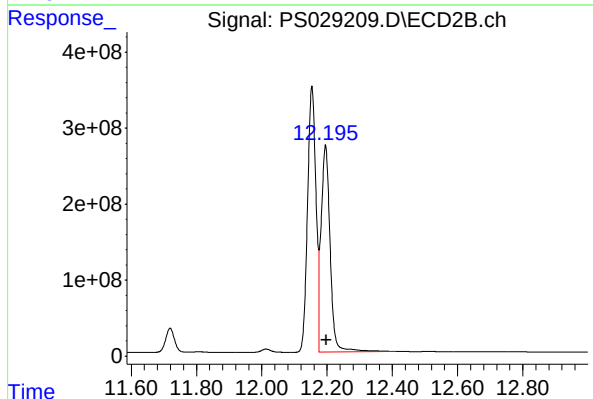
R.T.: 11.118 min
Delta R.T.: -0.003 min
Response: 3130379465
Conc: 483.41 ng/ml



#15 Picloram

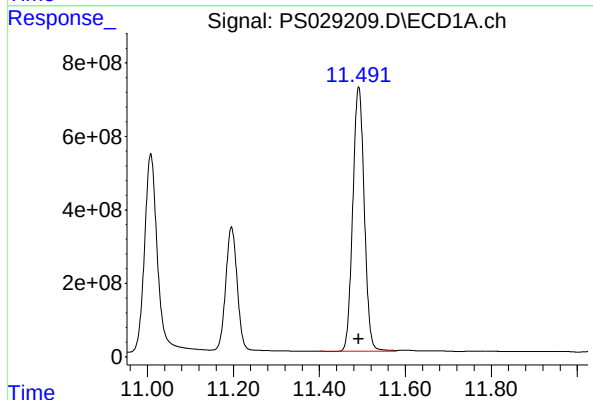
R.T.: 11.008 min
Delta R.T.: 0.000 min
Response: 11154438463
Conc: 426.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166763BS



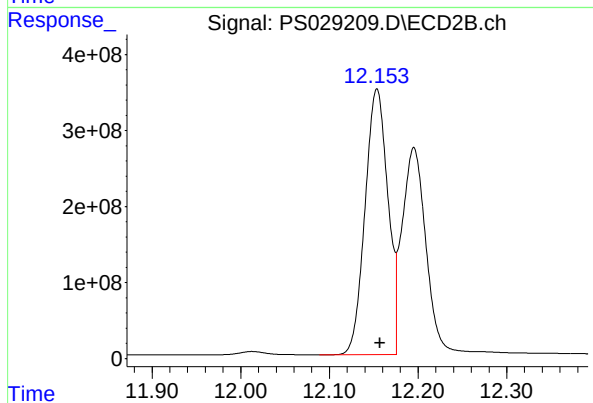
#15 Picloram

R.T.: 12.195 min
Delta R.T.: -0.003 min
Response: 5219338901
Conc: 416.21 ng/ml



#16 DCPA

R.T.: 11.491 min
Delta R.T.: 0.000 min
Response: 13349101083
Conc: 510.39 ng/ml



#16 DCPA

R.T.: 12.154 min
Delta R.T.: -0.003 min
Response: 6262644806
Conc: 504.15 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/14/25
Project:	Raymark Superfund Site	Date Received:	02/14/25
Client Sample ID:	AU-05-021425MS	SDG No.:	Q1382
Lab Sample ID:	Q1372-01MS	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	87.4 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029211.D	1	02/18/25 13:16	02/19/25 18:21	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.052	J	0.0099	0.038	0.076	mg/Kg
75-99-0	DALAPON	0.12	P	0.028	0.057	0.076	mg/Kg
120-36-5	DICHLORPROP	0.030	J	0.011	0.038	0.076	mg/Kg
94-75-7	2,4-D	0.070	J	0.014	0.038	0.076	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.024	J	0.011	0.038	0.076	mg/Kg
93-76-5	2,4,5-T	0.029	J	0.012	0.038	0.076	mg/Kg
94-82-6	2,4-DB	0.030	J	0.021	0.038	0.076	mg/Kg
88-85-7	DINOSEB	0.057	U	0.014	0.057	0.076	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	203		27 - 122		41%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029211.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 18:21
 Operator : AR\AJ
 Sample : Q1372-01MS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

AU-05-021425MS

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 02/20/2025

Supervised By :Ankita Jodhani 02/20/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:33:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.157	7.636	337.7E6	139.7E6	202.663m	144.433m#
Target Compounds							
1) T	Dalapon	2.599	2.653	680.8E6	693.5E6	207.089m	326.450m#
2) T	3,5-DICHL...	6.342	6.609	263.6E6	150.2E6	105.845	103.153
3) T	4-Nitroph...	6.957	7.167	286.4E6	210.8E6	199.746	246.203
5) T	DICAMBA	7.341	7.832	1201.1E6	693.1E6	136.880m	131.200m
6) T	MCP	7.518	7.932	11777553	13185786	3.736m	5.780 #
7) T	MCPA	7.667	8.171	38508715	26792404	8.579	8.501
8) T	DICHLORPROP	8.041	8.541	164.9E6	101.9E6	73.884m	77.769m
9) T	2,4-D	8.271	8.866	419.8E6	228.2E6	184.680	173.926
10) T	Pentachlo...	8.564	9.385	3045.1E6	1726.6E6	73.141m	72.574
11) T	2,4,5-TP ...	9.138	9.762	967.5E6	596.0E6	59.998m	63.564m
12) T	2,4,5-T	9.429	10.178	1146.1E6	664.8E6	75.290m	76.825m
13) T	2,4-DB	10.001	10.740	120.6E6	67593700	49.880m	79.047m#
14) T	DINOSEB	11.195	11.116	226.5E6	123.0E6	17.829	18.993
15) T	Picloram	11.008	12.194	5616.8E6	2605.0E6	214.930	207.728
16) T	DCPA	11.490	12.153	7462.7E6	4115.2E6	285.327	331.282

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029211.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 18:21
Operator : AR\AJ
Sample : Q1372-01MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

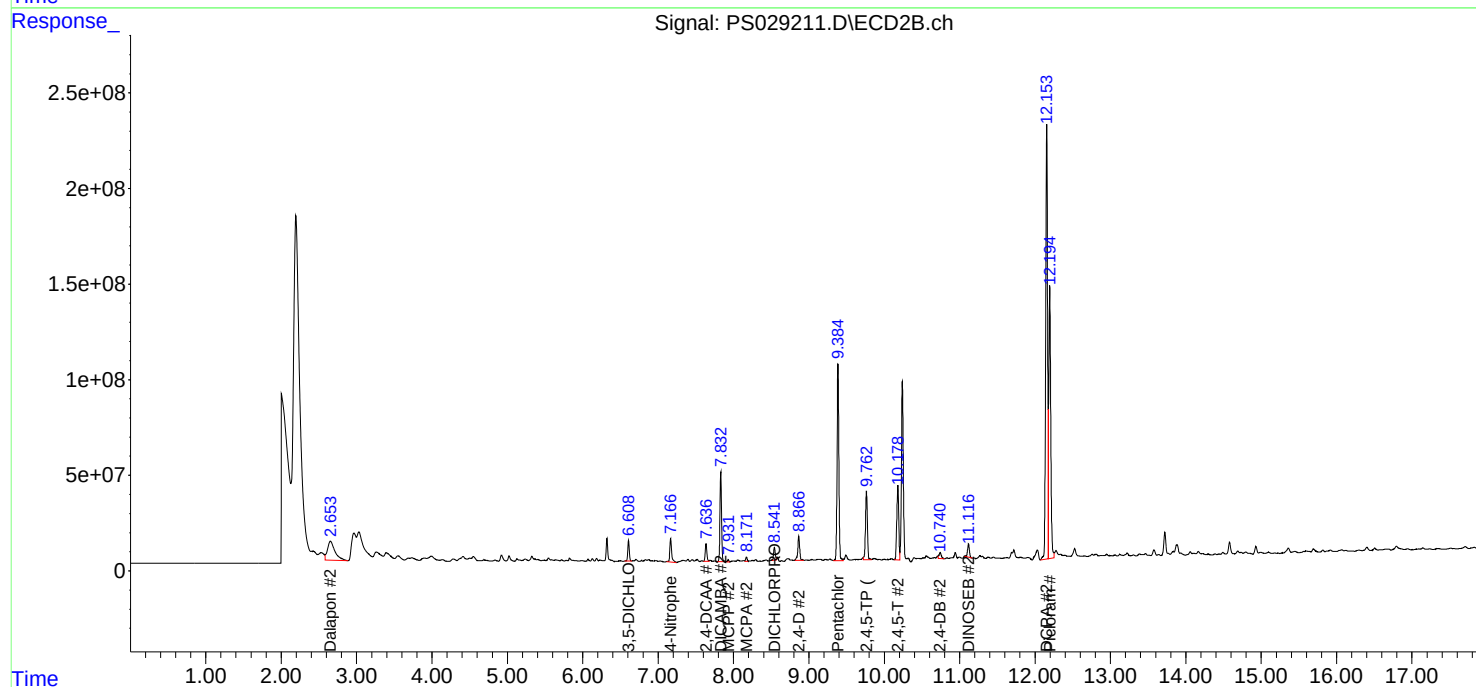
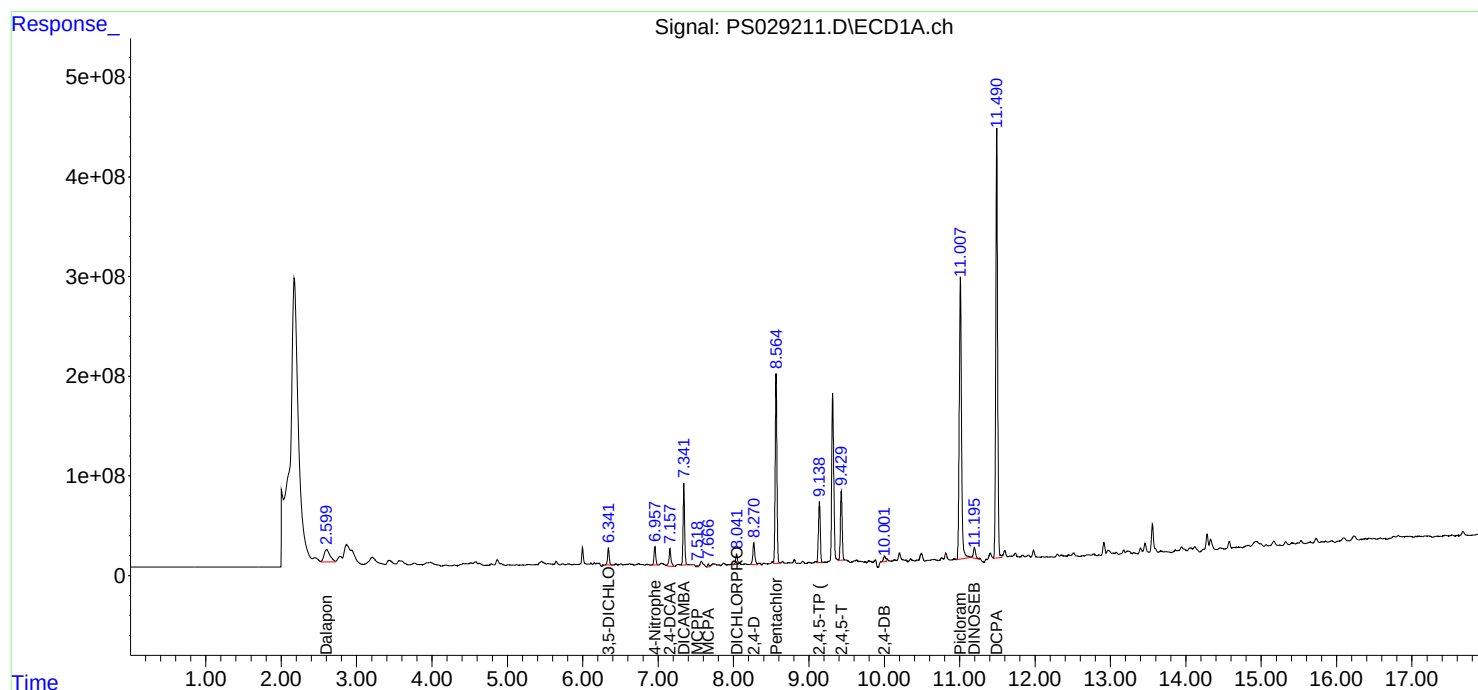
Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS

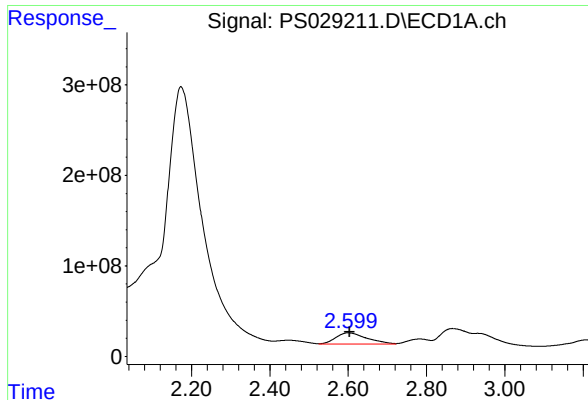
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 02/20/2025
Supervised By : Ankita Jodhani 02/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:33:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





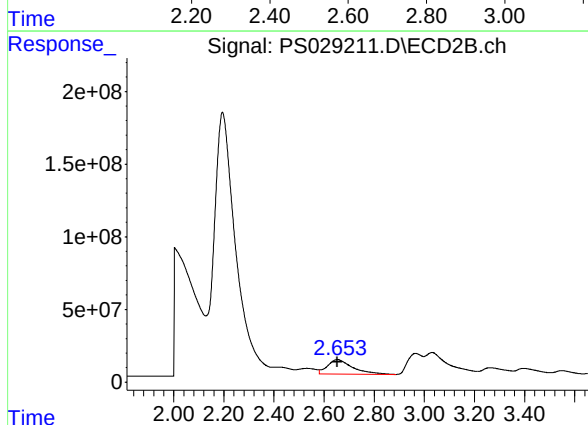
#1 Dalapon

R.T.: 2.599 min
Delta R.T.: -0.005 min
Response: 680803249
Conc: 207.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS

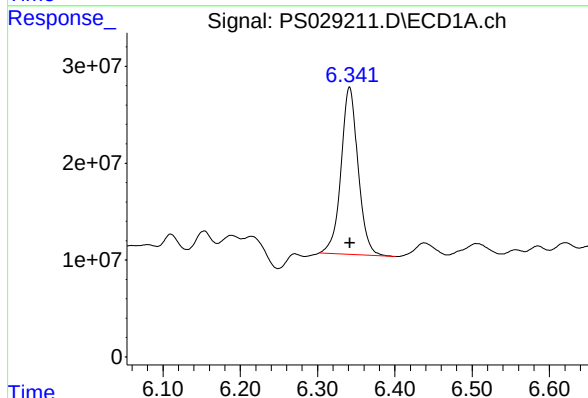
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



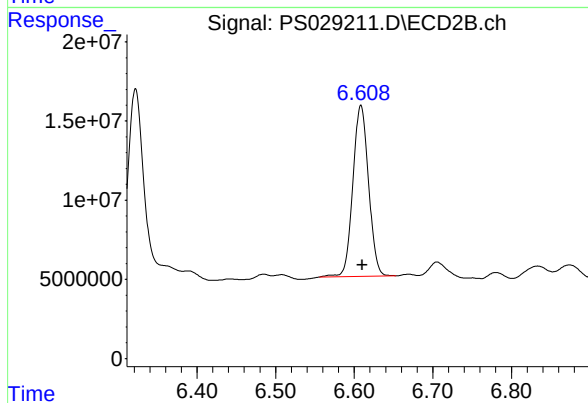
#1 Dalapon

R.T.: 2.653 min
Delta R.T.: 0.000 min
Response: 693546788
Conc: 326.45 ng/ml m



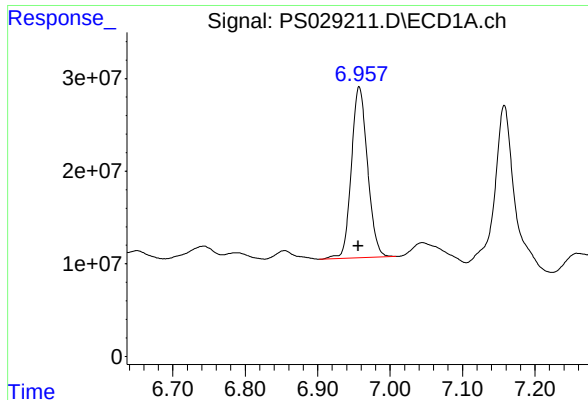
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.342 min
Delta R.T.: 0.000 min
Response: 263600124
Conc: 105.84 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.609 min
Delta R.T.: -0.002 min
Response: 150187528
Conc: 103.15 ng/ml



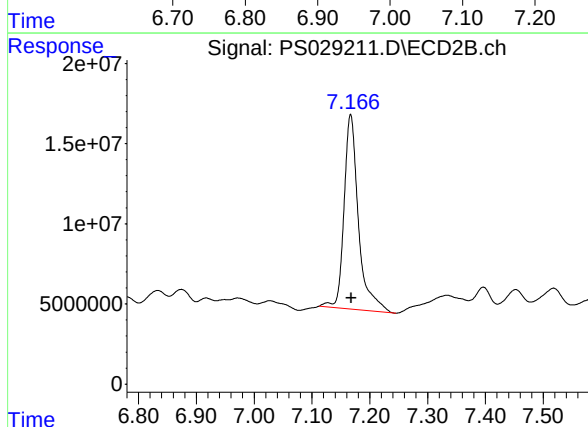
#3 4-Nitrophenol

R.T.: 6.957 min
Delta R.T.: 0.001 min
Response: 286407384
Conc: 199.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS

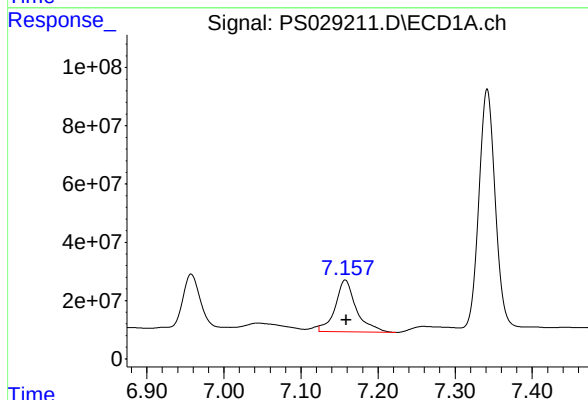
**Manual Integrations
APPROVED**

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



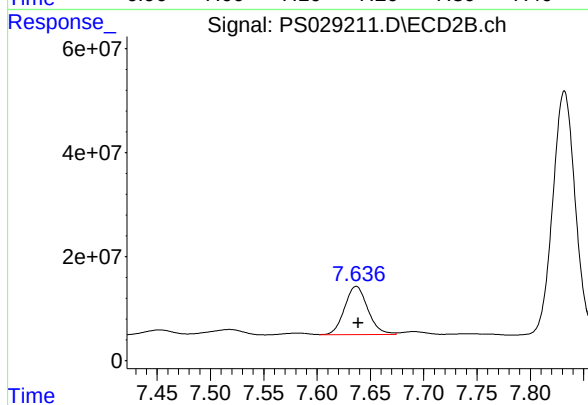
#3 4-Nitrophenol

R.T.: 7.167 min
Delta R.T.: -0.002 min
Response: 210843020
Conc: 246.20 ng/ml



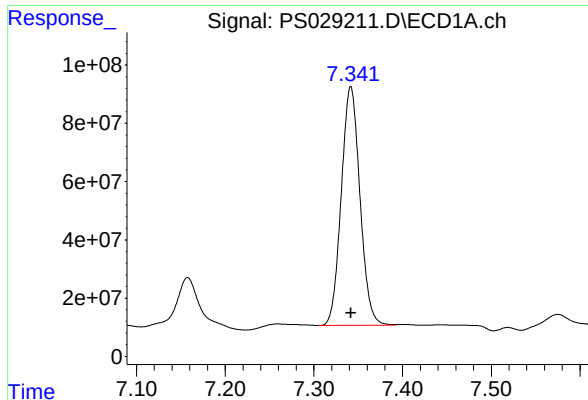
#4 2,4-DCAA

R.T.: 7.157 min
Delta R.T.: -0.002 min
Response: 337749267
Conc: 202.66 ng/ml m



#4 2,4-DCAA

R.T.: 7.636 min
Delta R.T.: -0.003 min
Response: 139734150
Conc: 144.43 ng/ml m



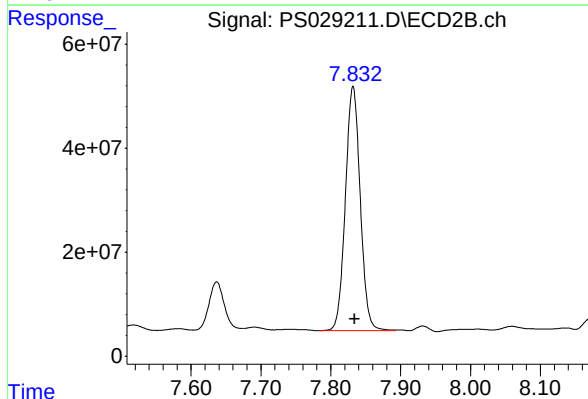
#5 DICAMBA

R.T.: 7.341 min
Delta R.T.: 0.000 min
Response: 1201117944
Conc: 136.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS

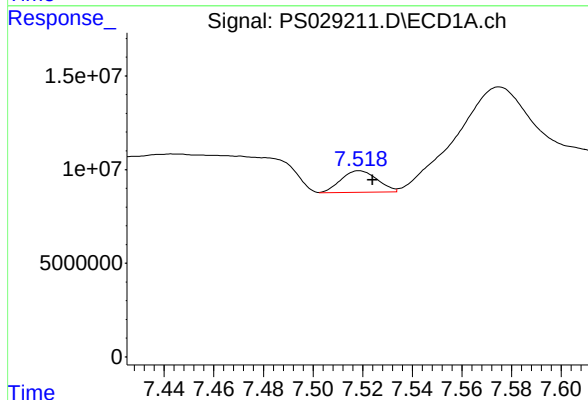
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



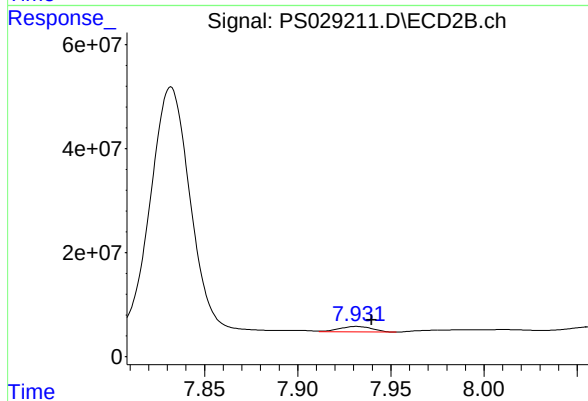
#5 DICAMBA

R.T.: 7.832 min
Delta R.T.: -0.003 min
Response: 693126763
Conc: 131.20 ng/ml



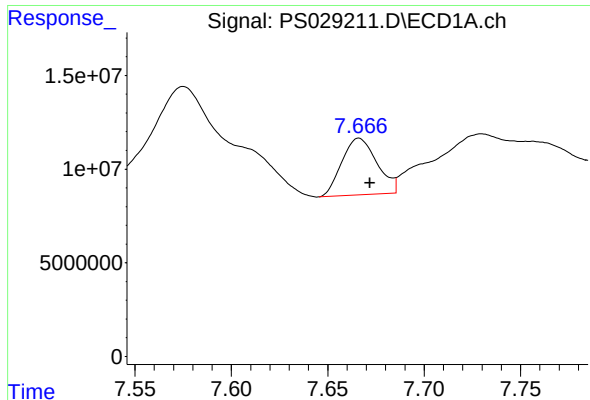
#6 MCPP

R.T.: 7.518 min
Delta R.T.: -0.006 min
Response: 11777553
Conc: 3.74 ug/ml



#6 MCPP

R.T.: 7.932 min
Delta R.T.: -0.008 min
Response: 13185786
Conc: 5.78 ug/ml



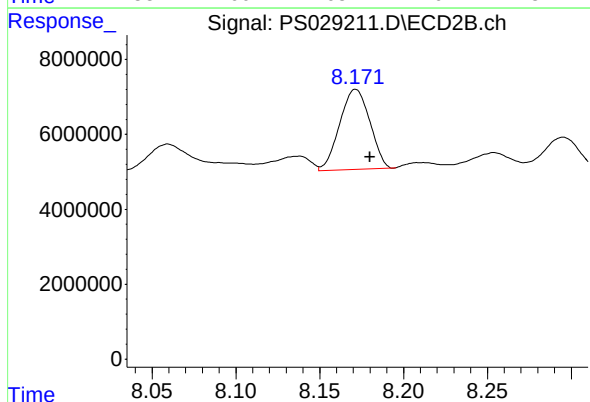
#7 MCPA

R.T.: 7.667 min
Delta R.T.: -0.005 min
Response: 38508715
Conc: 8.58 ug/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS

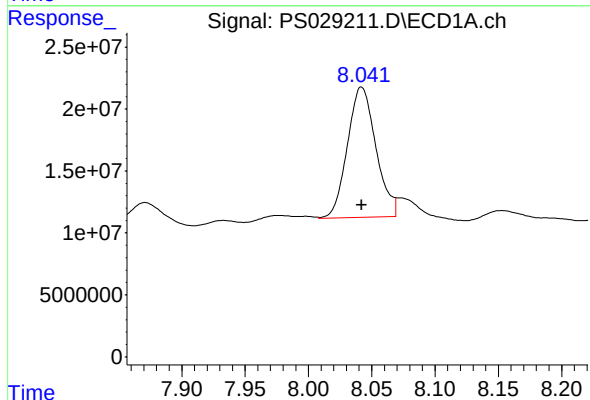
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



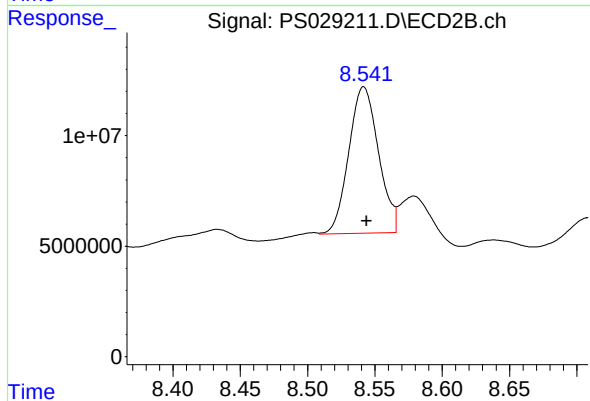
#7 MCPA

R.T.: 8.171 min
Delta R.T.: -0.009 min
Response: 26792404
Conc: 8.50 ug/ml



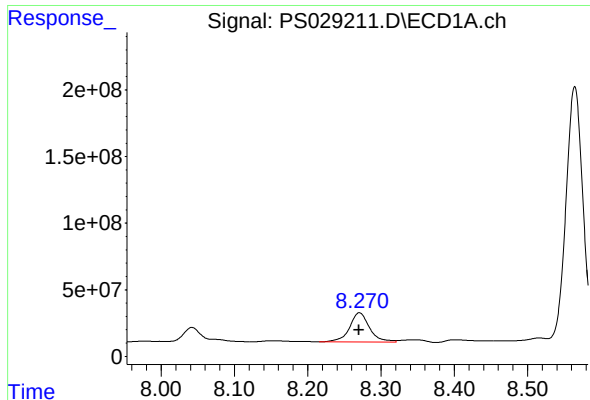
#8 DICHLORPROP

R.T.: 8.041 min
Delta R.T.: 0.000 min
Response: 164850137
Conc: 73.88 ng/ml m



#8 DICHLORPROP

R.T.: 8.541 min
Delta R.T.: -0.003 min
Response: 101911085
Conc: 77.77 ng/ml m



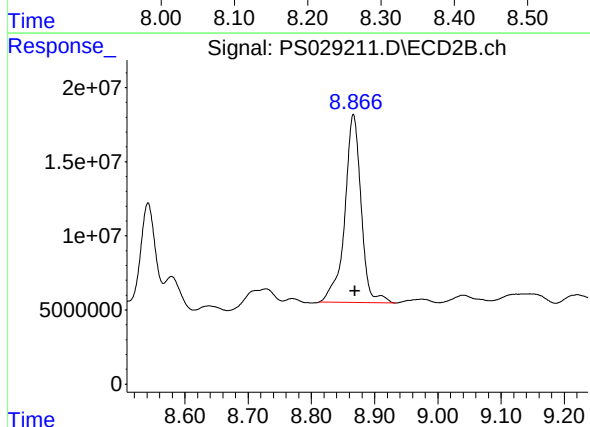
#9 2,4-D

R.T.: 8.271 min
Delta R.T.: 0.000 min
Response: 419789785
Conc: 184.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS

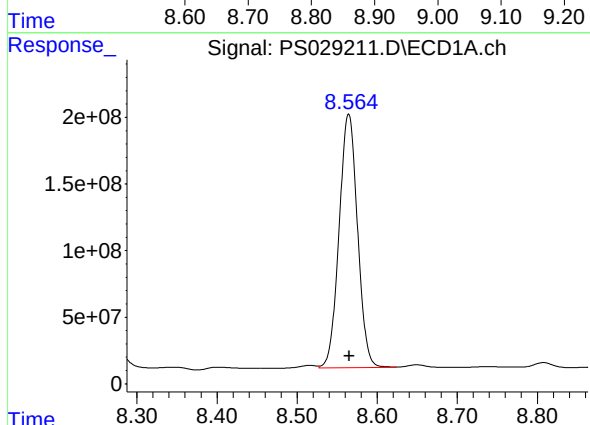
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



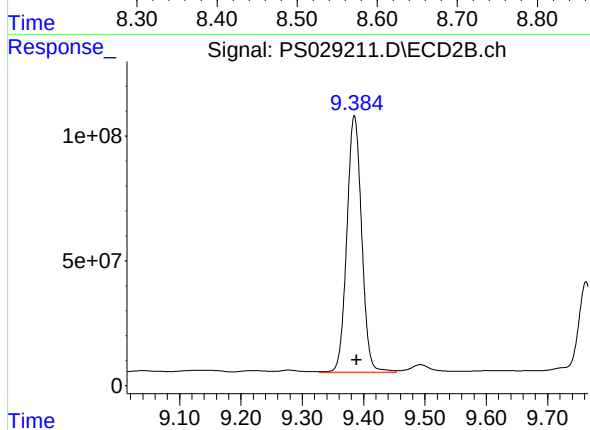
#9 2,4-D

R.T.: 8.866 min
Delta R.T.: -0.002 min
Response: 228153466
Conc: 173.93 ng/ml



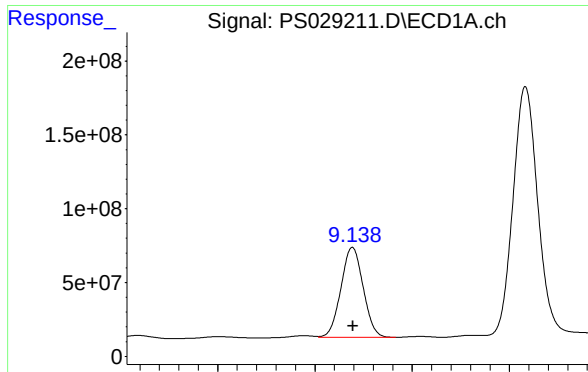
#10 Pentachlorophenol

R.T.: 8.564 min
Delta R.T.: 0.000 min
Response: 3045065060
Conc: 73.14 ng/ml m



#10 Pentachlorophenol

R.T.: 9.385 min
Delta R.T.: -0.004 min
Response: 1726642537
Conc: 72.57 ng/ml



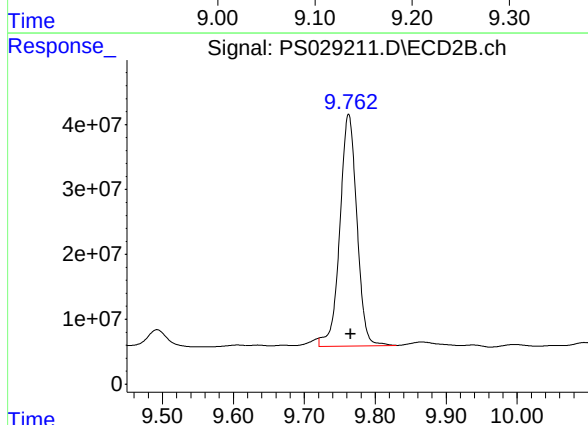
#11 2,4,5-TP (SILVEX)

R.T.: 9.138 min
Delta R.T.: -0.001 min
Response: 967457253
Conc: 60.00 ng/ml m

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS

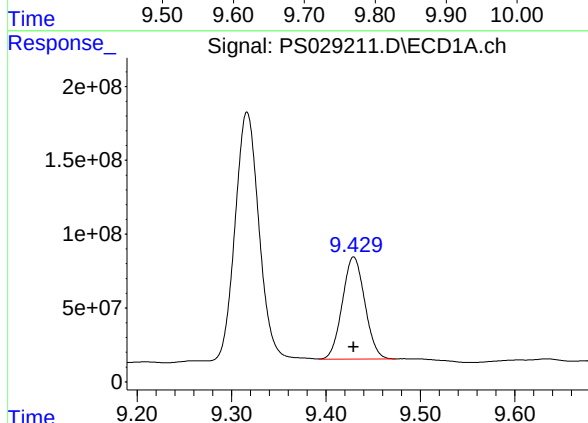
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



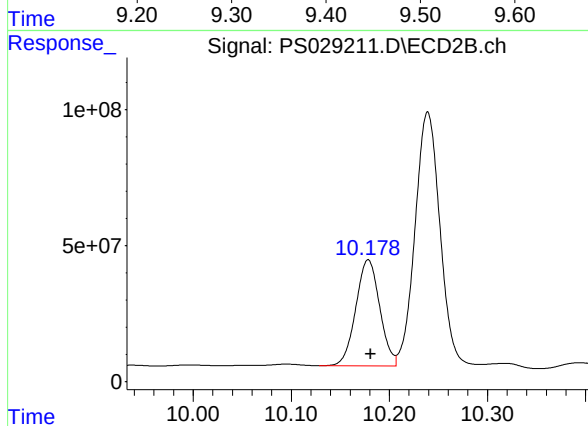
#11 2,4,5-TP (SILVEX)

R.T.: 9.762 min
Delta R.T.: -0.004 min
Response: 596002447
Conc: 63.56 ng/ml m



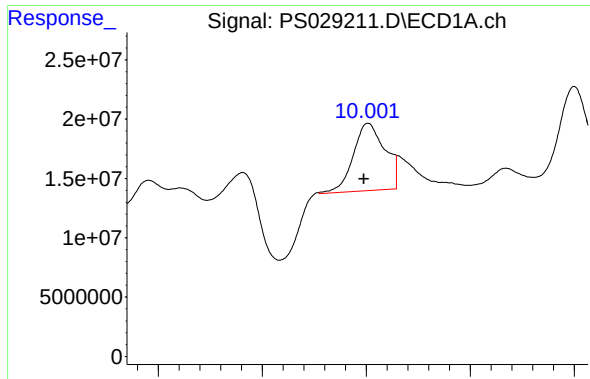
#12 2,4,5-T

R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 1146131229
Conc: 75.29 ng/ml m



#12 2,4,5-T

R.T.: 10.178 min
Delta R.T.: -0.003 min
Response: 664802342
Conc: 76.82 ng/ml m



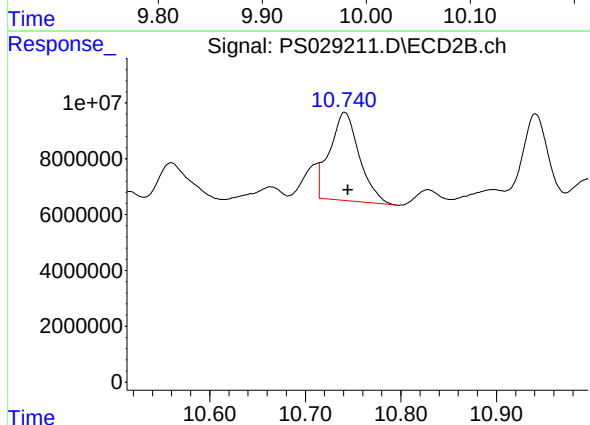
#13 2,4-DB

R.T.: 10.001 min
Delta R.T.: 0.003 min
Response: 120563515
Conc: 49.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS

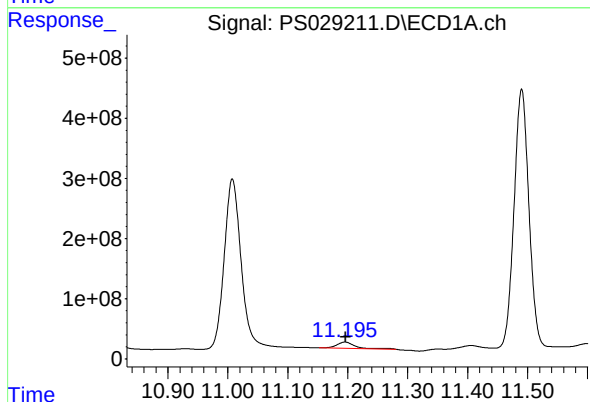
Manual Integrations
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Supervised By :Ankita Jodhani 02/20/2025



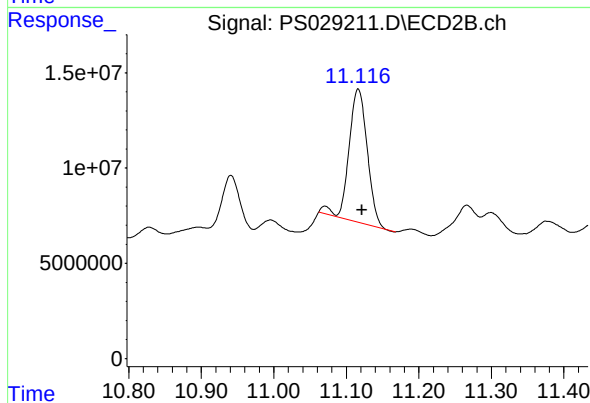
#13 2,4-DB

R.T.: 10.740 min
Delta R.T.: -0.004 min
Response: 67593700
Conc: 79.05 ng/ml



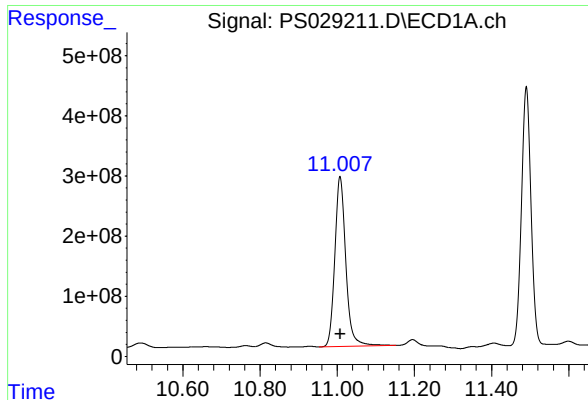
#14 DINOSEB

R.T.: 11.195 min
Delta R.T.: -0.001 min
Response: 226527118
Conc: 17.83 ng/ml



#14 DINOSEB

R.T.: 11.116 min
Delta R.T.: -0.005 min
Response: 122994005
Conc: 18.99 ng/ml



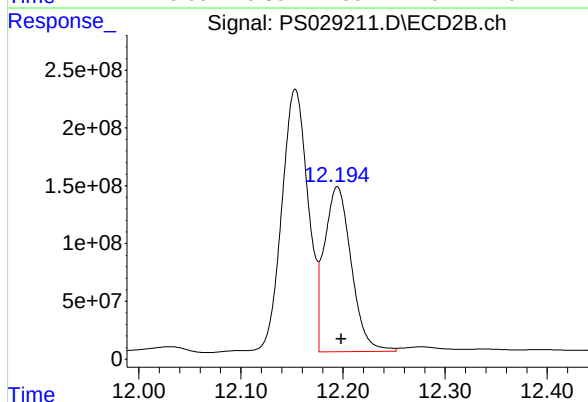
#15 Picloram

R.T.: 11.008 min
Delta R.T.: 0.000 min
Response: 5616812155
Conc: 214.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS

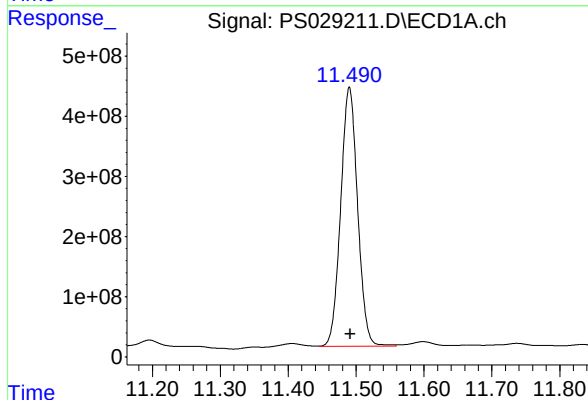
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



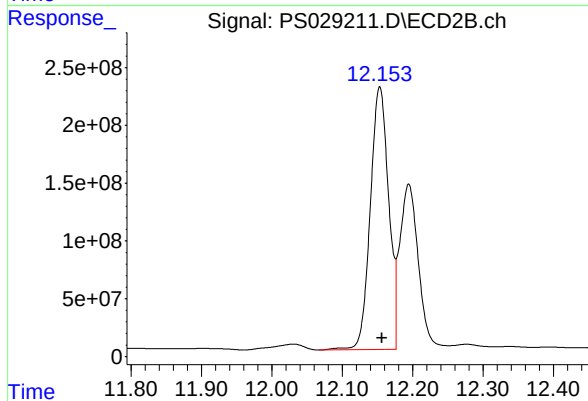
#15 Picloram

R.T.: 12.194 min
Delta R.T.: -0.004 min
Response: 2604955700
Conc: 207.73 ng/ml



#16 DCPA

R.T.: 11.490 min
Delta R.T.: -0.002 min
Response: 7462656307
Conc: 285.33 ng/ml



#16 DCPA

R.T.: 12.153 min
Delta R.T.: -0.003 min
Response: 4115223251
Conc: 331.28 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	02/14/25
Project:	Raymark Superfund Site	Date Received:	02/14/25
Client Sample ID:	AU-05-021425MSD	SDG No.:	Q1382
Lab Sample ID:	Q1372-01MSD	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	87.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029212.D	1	02/18/25 13:16	02/19/25 18:45	PB166763

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.049	J	0.0099	0.038	0.077	mg/Kg
75-99-0	DALAPON	0.11	P	0.028	0.057	0.077	mg/Kg
120-36-5	DICHLORPROP	0.039	J	0.011	0.038	0.077	mg/Kg
94-75-7	2,4-D	0.066	J	0.014	0.038	0.077	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.027	J	0.011	0.038	0.077	mg/Kg
93-76-5	2,4,5-T	0.028	J	0.012	0.038	0.077	mg/Kg
94-82-6	2,4-DB	0.035	J	0.021	0.038	0.077	mg/Kg
88-85-7	DINOSEB	0.057	U	0.014	0.057	0.077	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	202		27 - 122		40%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029212.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 18:45
 Operator : AR\AJ
 Sample : Q1372-01MSD
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

AU-05-021425MSD

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 02/20/2025

Supervised By :Ankita Jodhani 02/20/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:33:45 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.156	7.635	336.9E6	131.8E6	202.137m	136.229m#
Target Compounds							
1) T	Dalapon	2.599	2.652	653.0E6	610.4E6	198.636m	287.333m#
2) T	3,5-DICHL...	6.341	6.608	249.9E6	142.2E6	100.345	97.634
3) T	4-Nitroph...	6.957	7.167	279.3E6	206.5E6	194.795	241.178
5) T	DICAMBA	7.340	7.831	1132.7E6	665.8E6	129.085	126.021
6) T	MCP	7.517	7.931	9016111	12179287	2.860m	5.338 #
7) T	MCPA	7.665	8.171	34277862	29069553	7.636	9.223
8) T	DICHLORPROP	8.041	8.541	209.3E6	133.1E6	93.798	101.577
9) T	2,4-D	8.270	8.866	394.6E6	218.0E6	173.584	166.170
10) T	Pentachlo...	8.563	9.384	3038.6E6	1739.1E6	72.984	73.097
11) T	2,4,5-TP ...	9.137	9.762	949.7E6	667.4E6	58.899	71.175
12) T	2,4,5-T	9.427	10.177	1089.5E6	631.8E6	71.573m	73.012m
13) T	2,4-DB	10.000	10.740	123.4E6	78920587	51.062m	92.293m#
14) T	DINOSEB	11.194	11.115	221.4E6	126.6E6	17.423	19.549
15) T	Picloram	11.006	12.193	5437.2E6	2559.9E6	208.059	204.135
16) T	DCPA	11.488	12.152	7372.7E6	4119.9E6	281.888	331.658

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029212.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 18:45
Operator : AR\AJ
Sample : Q1372-01MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

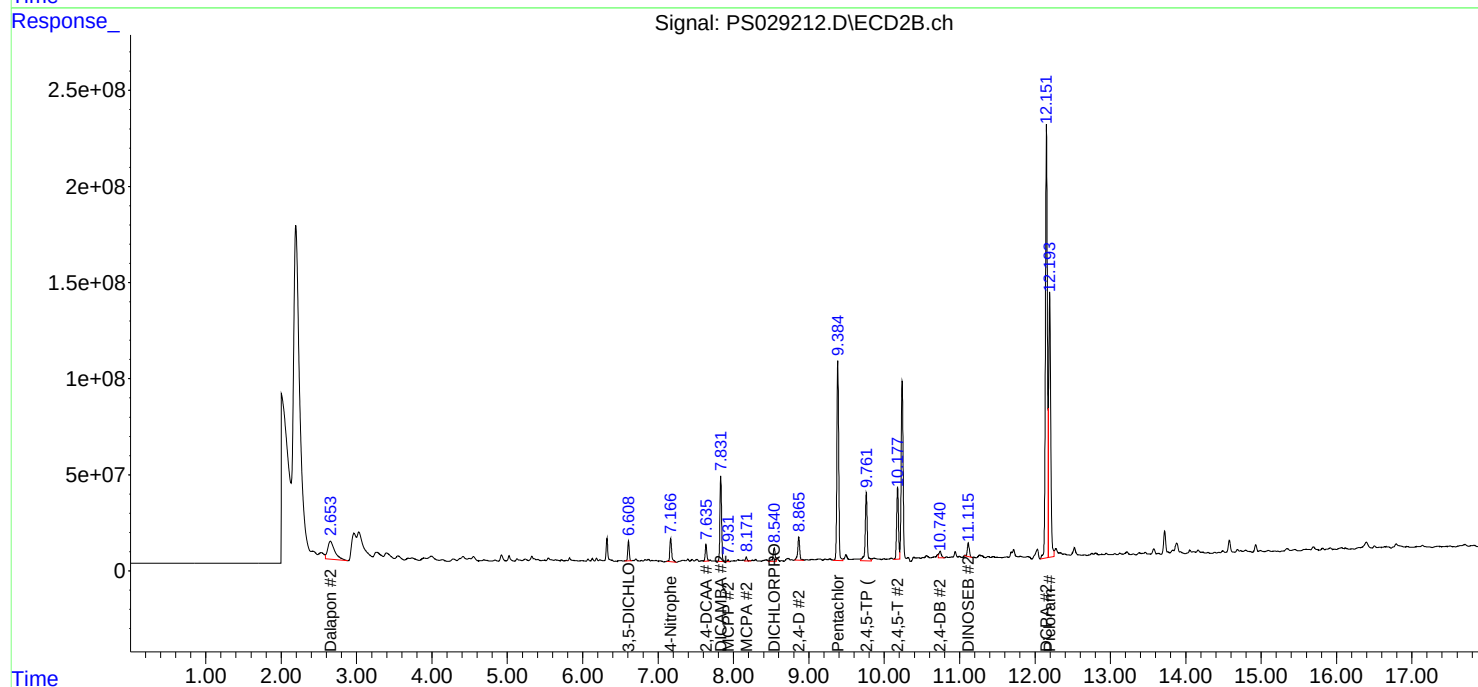
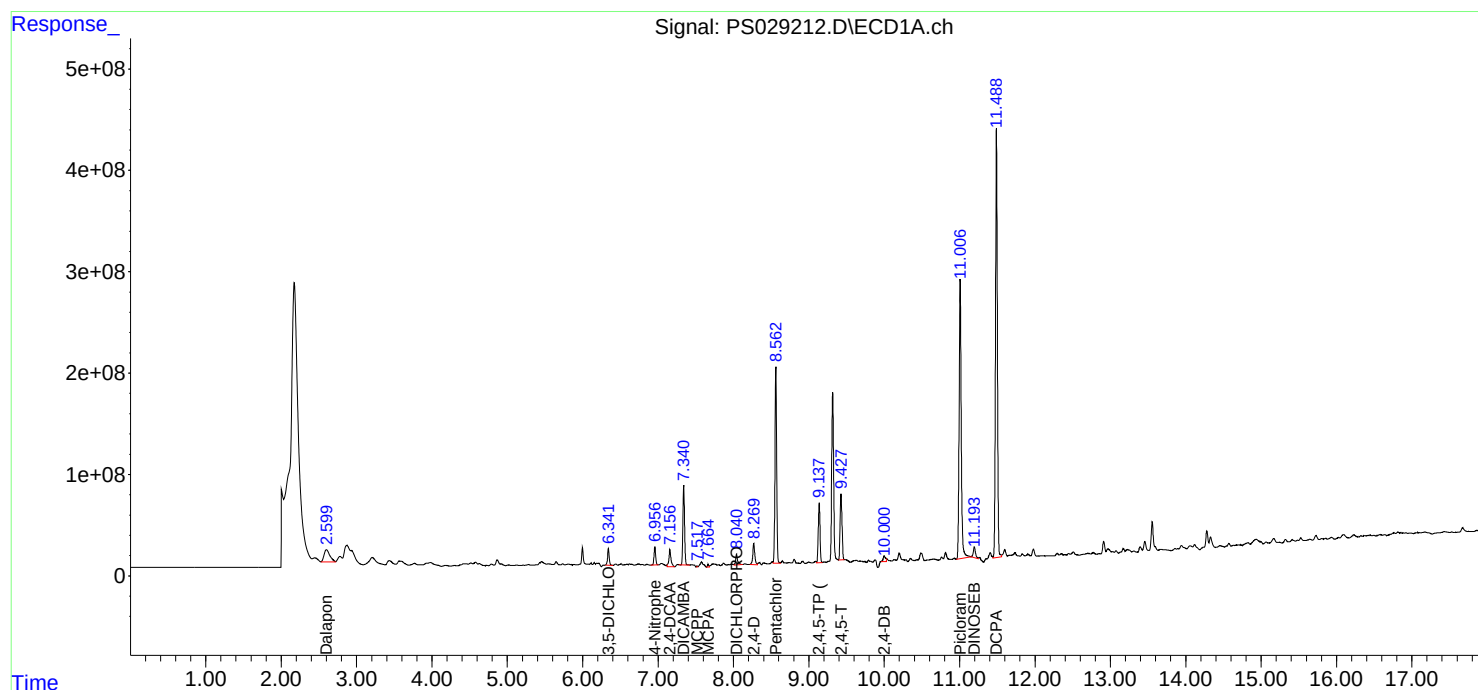
Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD

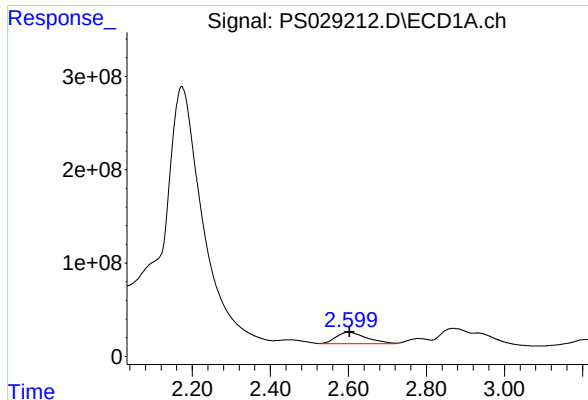
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 02/20/2025
Supervised By : Ankita Jodhani 02/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:33:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





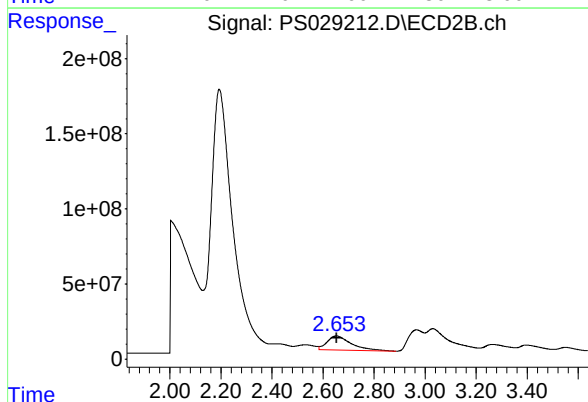
#1 Dalapon

R.T.: 2.599 min
Delta R.T.: -0.005 min
Response: 653012407
Conc: 198.64 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD

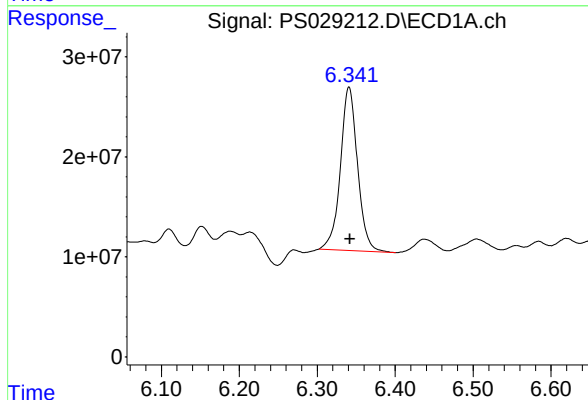
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



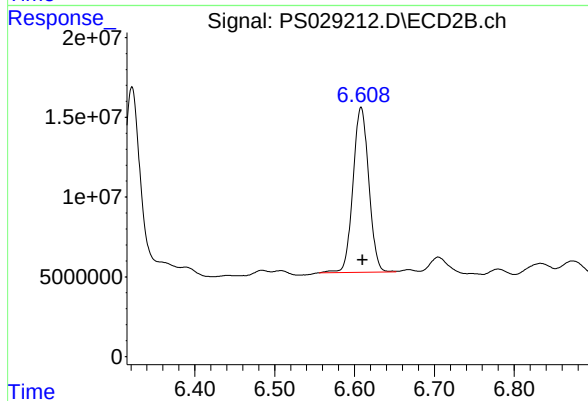
#1 Dalapon

R.T.: 2.652 min
Delta R.T.: 0.000 min
Response: 610443218
Conc: 287.33 ng/ml



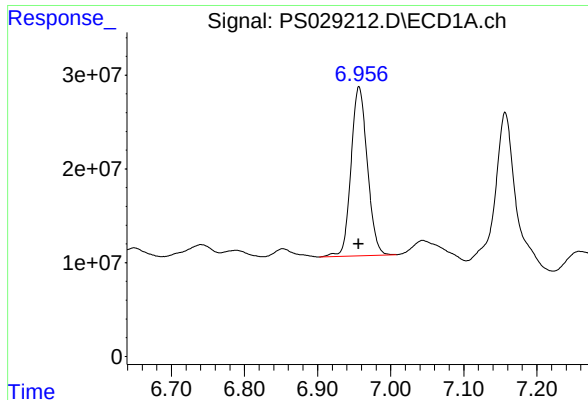
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.341 min
Delta R.T.: -0.001 min
Response: 249903374
Conc: 100.34 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.608 min
Delta R.T.: -0.002 min
Response: 142151801
Conc: 97.63 ng/ml



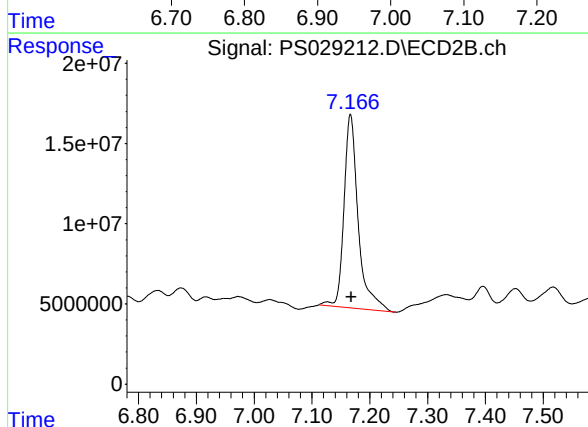
#3 4-Nitrophenol

R.T.: 6.957 min
Delta R.T.: 0.000 min
Response: 279308571
Conc: 194.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD

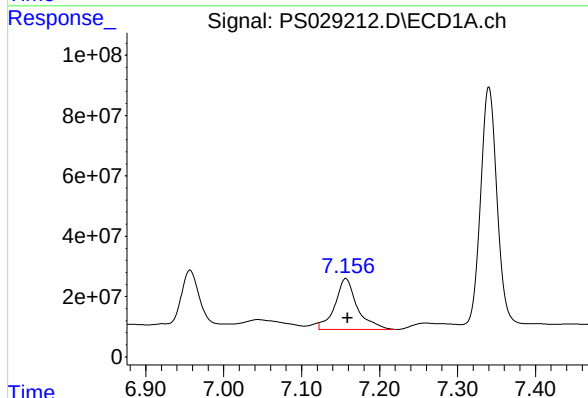
Manual Integrations
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Supervised By :Ankita Jodhani 02/20/2025



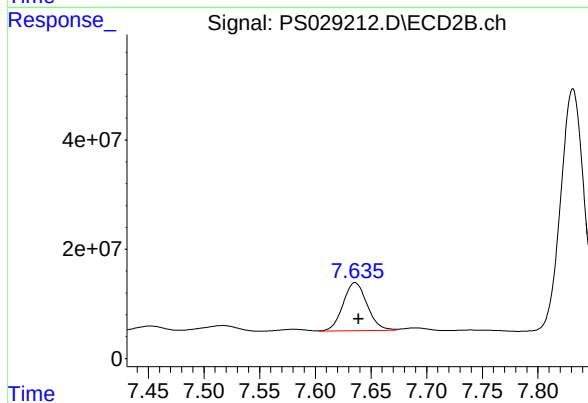
#3 4-Nitrophenol

R.T.: 7.167 min
Delta R.T.: -0.002 min
Response: 206539534
Conc: 241.18 ng/ml



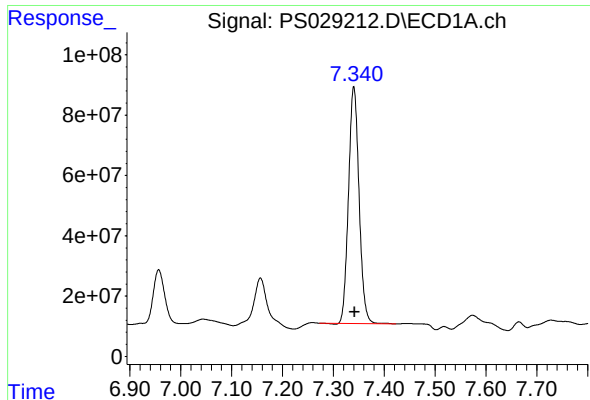
#4 2,4-DCAA

R.T.: 7.156 min
Delta R.T.: -0.003 min
Response: 336872132
Conc: 202.14 ng/ml m



#4 2,4-DCAA

R.T.: 7.635 min
Delta R.T.: -0.004 min
Response: 131796995
Conc: 136.23 ng/ml m



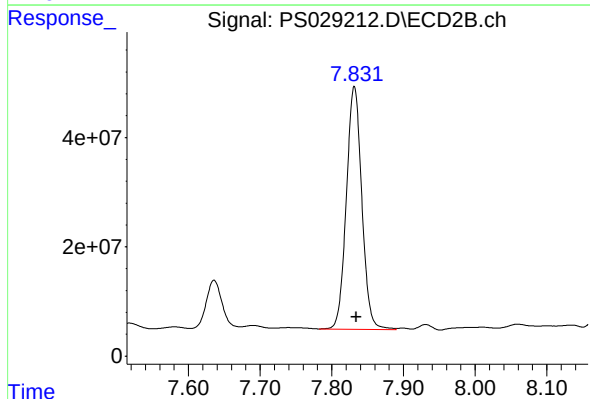
#5 DICAMBA

R.T.: 7.340 min
Delta R.T.: -0.002 min
Response: 1132713014
Conc: 129.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD

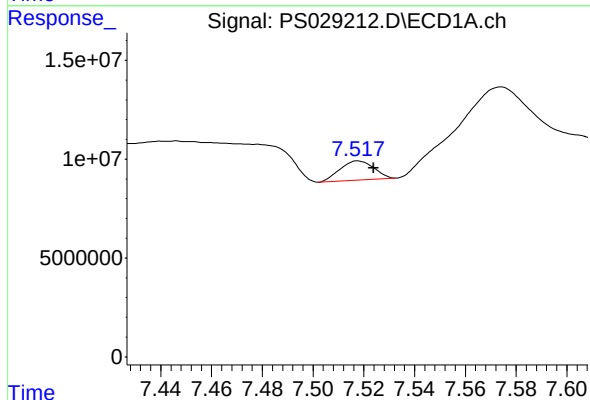
Manual Integrations
APPROVED

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Supervised By :Ankita Jodhani 02/20/2025



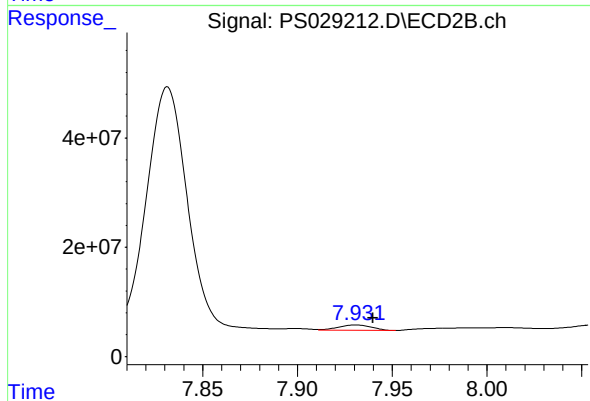
#5 DICAMBA

R.T.: 7.831 min
Delta R.T.: -0.003 min
Response: 665768075
Conc: 126.02 ng/ml



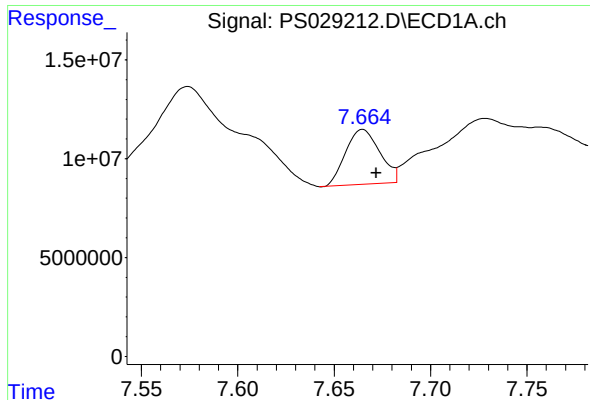
#6 MCPP

R.T.: 7.517 min
Delta R.T.: -0.007 min
Response: 9016111
Conc: 2.86 ug/ml m



#6 MCPP

R.T.: 7.931 min
Delta R.T.: -0.009 min
Response: 12179287
Conc: 5.34 ug/ml



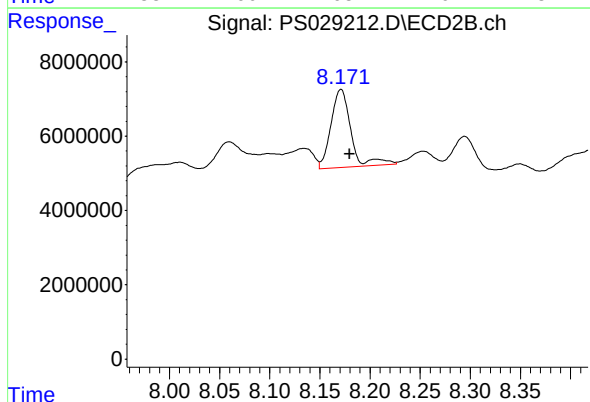
#7 MCPA

R.T.: 7.665 min
Delta R.T.: -0.007 min
Response: 34277862
Conc: 7.64 ug/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD

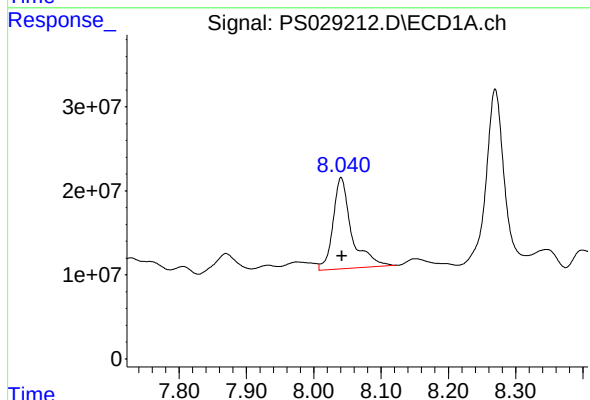
Manual Integrations
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Supervised By :Ankita Jodhani 02/20/2025



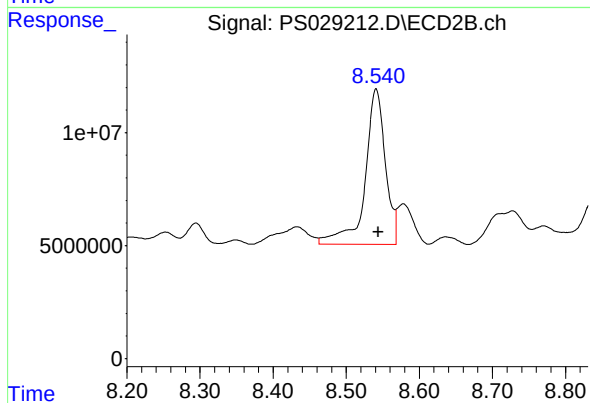
#7 MCPA

R.T.: 8.171 min
Delta R.T.: -0.009 min
Response: 29069553
Conc: 9.22 ug/ml



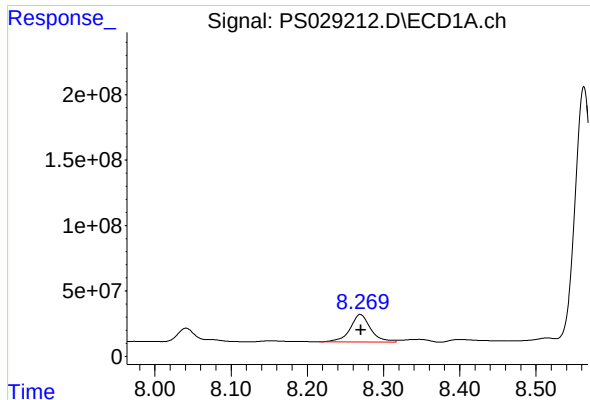
#8 DICHLORPROP

R.T.: 8.041 min
Delta R.T.: -0.001 min
Response: 209282244
Conc: 93.80 ng/ml



#8 DICHLORPROP

R.T.: 8.541 min
Delta R.T.: -0.003 min
Response: 133109211
Conc: 101.58 ng/ml



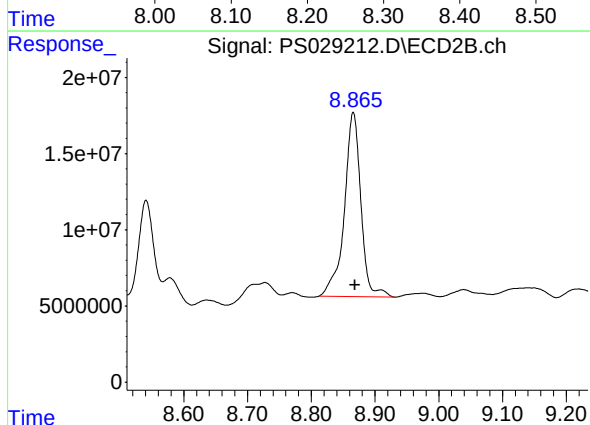
#9 2,4-D

R.T.: 8.270 min
Delta R.T.: 0.000 min
Response: 394568089
Conc: 173.58 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD

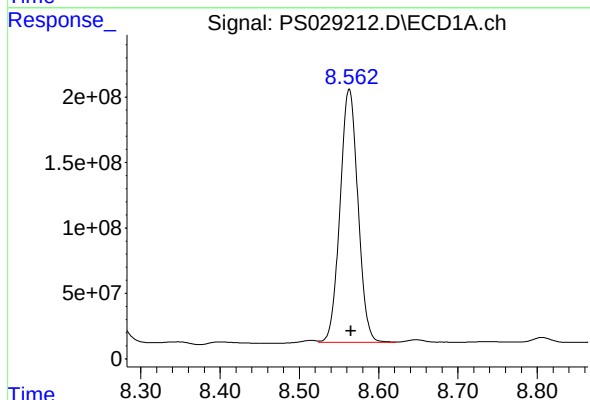
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
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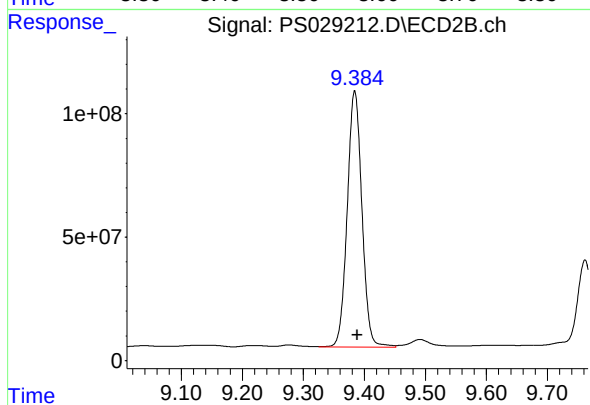
#9 2,4-D

R.T.: 8.866 min
Delta R.T.: -0.003 min
Response: 217979368
Conc: 166.17 ng/ml



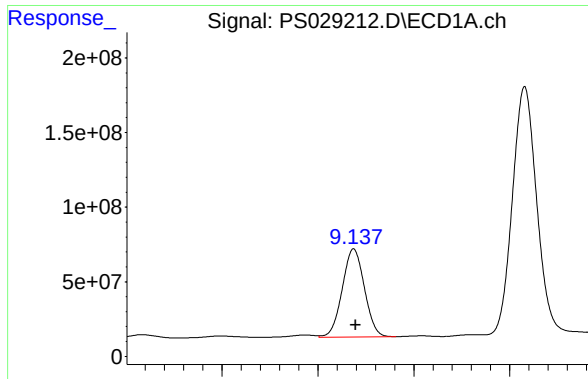
#10 Pentachlorophenol

R.T.: 8.563 min
Delta R.T.: -0.002 min
Response: 3038562100
Conc: 72.98 ng/ml



#10 Pentachlorophenol

R.T.: 9.384 min
Delta R.T.: -0.004 min
Response: 1739091787
Conc: 73.10 ng/ml



#11 2,4,5-TP (SILVEX)

R.T.: 9.137 min
Delta R.T.: -0.002 min
Response: 949739950
Conc: 58.90 ng/ml

Instrument :

ECD_S

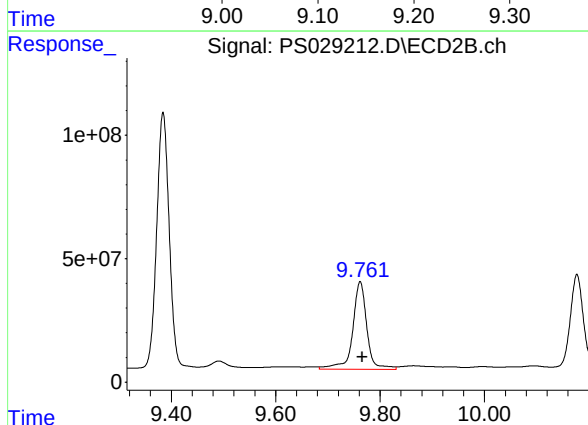
ClientSampleId :

AU-05-021425MSD

Manual Integrations

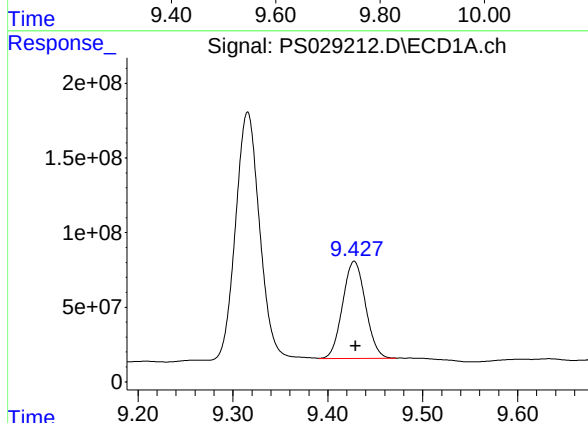
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



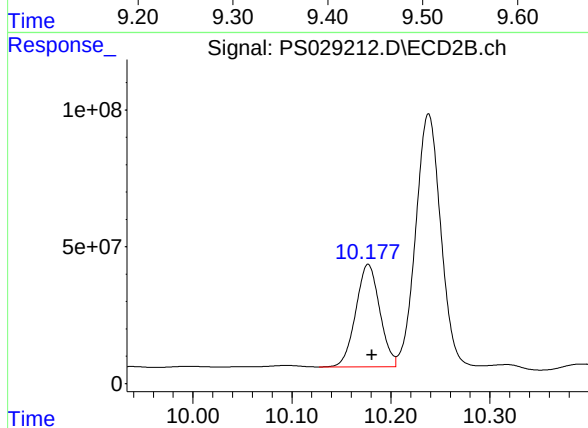
#11 2,4,5-TP (SILVEX)

R.T.: 9.762 min
Delta R.T.: -0.004 min
Response: 667372372
Conc: 71.18 ng/ml



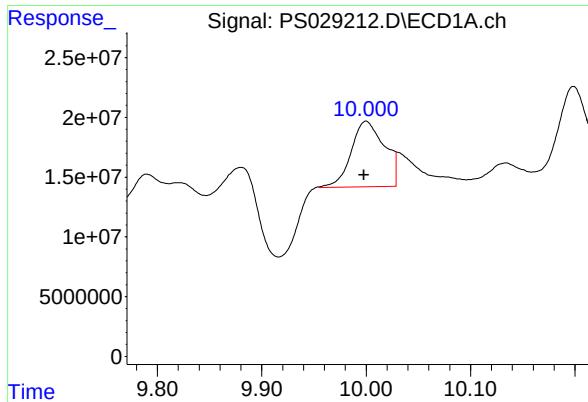
#12 2,4,5-T

R.T.: 9.427 min
Delta R.T.: -0.002 min
Response: 1089540876
Conc: 71.57 ng/ml m



#12 2,4,5-T

R.T.: 10.177 min
Delta R.T.: -0.004 min
Response: 631809306
Conc: 73.01 ng/ml m



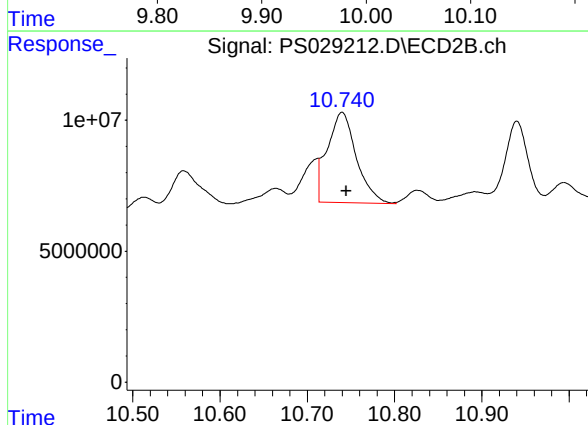
#13 2,4-DB

R.T.: 10.000 min
Delta R.T.: 0.002 min
Response: 123421862
Conc: 51.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD

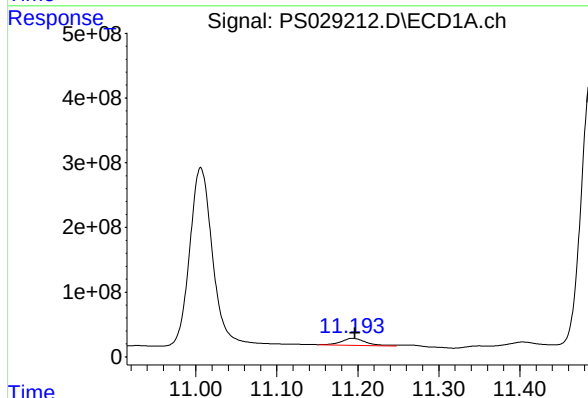
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



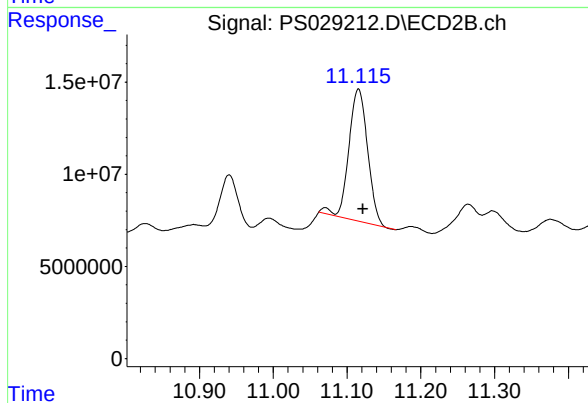
#13 2,4-DB

R.T.: 10.740 min
Delta R.T.: -0.005 min
Response: 78920587
Conc: 92.29 ng/ml



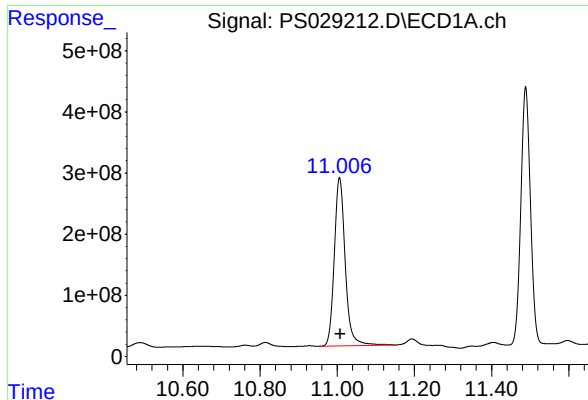
#14 DINOSEB

R.T.: 11.194 min
Delta R.T.: -0.003 min
Response: 221378251
Conc: 17.42 ng/ml



#14 DINOSEB

R.T.: 11.115 min
Delta R.T.: -0.006 min
Response: 126595127
Conc: 19.55 ng/ml



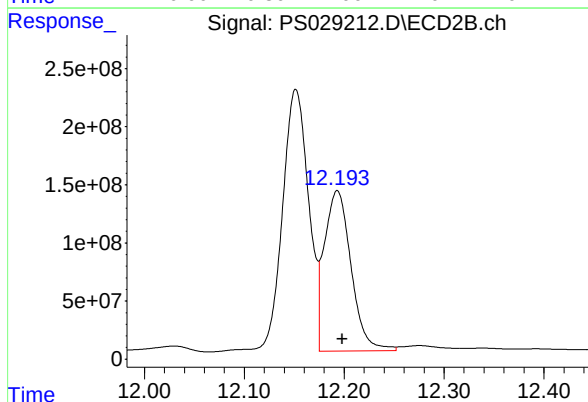
#15 Picloram

R.T.: 11.006 min
Delta R.T.: -0.001 min
Response: 5437243633
Conc: 208.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD

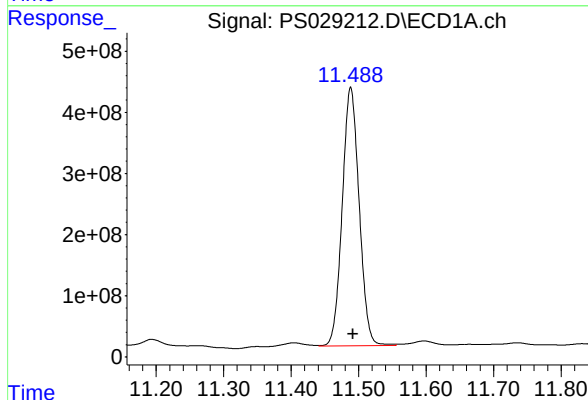
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/20/2025
Supervised By :Ankita Jodhani 02/20/2025



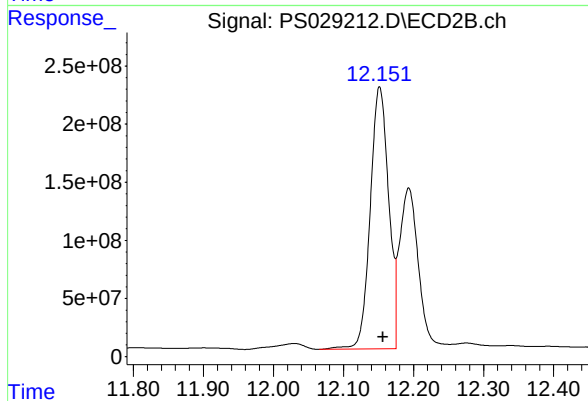
#15 Picloram

R.T.: 12.193 min
Delta R.T.: -0.005 min
Response: 2559895930
Conc: 204.13 ng/ml



#16 DCPA

R.T.: 11.488 min
Delta R.T.: -0.003 min
Response: 7372706844
Conc: 281.89 ng/ml



#16 DCPA

R.T.: 12.152 min
Delta R.T.: -0.005 min
Response: 4119896400
Conc: 331.66 ng/ml

Manual Integration Report

Sequence:	PS021925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1372-01MS	PS029211.D	2,4,5-T	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	2,4,5-T #2	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	2,4,5-TP (SILVEX)	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	2,4,5-TP (SILVEX) #2	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	2,4-DB	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	2,4-DB #2	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	2,4-DCAA	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	2,4-DCAA #2	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	Dalapon	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	Dalapon #2	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	DICAMBA	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	DICAMBA #2	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	DICHLORPROP	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software

Manual Integration Report

Sequence:	PS021925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1372-01MS	PS029211.D	DICHLORPROP #2	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	MCPP	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MS	PS029211.D	Pentachlorophenol	Abdul	2/20/2025 9:45:49 AM	Ankita	2/20/2025 1:02:08	Peak Integrated by Software
Q1372-01MSD	PS029212.D	2,4,5-T	Abdul	2/20/2025 9:45:53 AM	Ankita	2/20/2025 1:02:09	Peak Integrated by Software
Q1372-01MSD	PS029212.D	2,4,5-T #2	Abdul	2/20/2025 9:45:53 AM	Ankita	2/20/2025 1:02:09	Peak Integrated by Software
Q1372-01MSD	PS029212.D	2,4-DB	Abdul	2/20/2025 9:45:53 AM	Ankita	2/20/2025 1:02:09	Peak Integrated by Software
Q1372-01MSD	PS029212.D	2,4-DB #2	Abdul	2/20/2025 9:45:53 AM	Ankita	2/20/2025 1:02:09	Peak Integrated by Software
Q1372-01MSD	PS029212.D	2,4-DCAA	Abdul	2/20/2025 9:45:53 AM	Ankita	2/20/2025 1:02:09	Peak Integrated by Software
Q1372-01MSD	PS029212.D	2,4-DCAA #2	Abdul	2/20/2025 9:45:53 AM	Ankita	2/20/2025 1:02:09	Peak Integrated by Software
Q1372-01MSD	PS029212.D	Dalapon	Abdul	2/20/2025 9:45:53 AM	Ankita	2/20/2025 1:02:09	Peak Integrated by Software
Q1372-01MSD	PS029212.D	Dalapon #2	Abdul	2/20/2025 9:45:53 AM	Ankita	2/20/2025 1:02:09	Peak Integrated by Software
Q1372-01MSD	PS029212.D	MCPP	Abdul	2/20/2025 9:45:53 AM	Ankita	2/20/2025 1:02:09	Peak Integrated by Software
Q1382-01	PS029213.D	2,4-DCAA	Abdul	2/20/2025 9:45:58 AM	Ankita	2/20/2025 1:02:11	Peak Integrated by Software

Manual Integration Report

Sequence:

PS021925

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1382-05	PS029215.D	2,4-DCAA	Abdul	2/20/2025 9:46:01 AM	Ankita	2/20/2025 1:02:13	Peak Integrated by Software
HSTDCCC750	PS029219.D	DICHLORPROP	Abdul	2/20/2025 9:46:06 AM	Ankita	2/20/2025 1:02:26	Peak Integrated by Software



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:

ps022125

Instrument

ECD_s

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:

ps022625

Instrument

ECD_s

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS021925

Review By	Abdul	Review On	2/20/2025 9:47:17 AM
Supervise By	Ankita	Supervise On	2/20/2025 1:02:47 PM
SubDirectory	PS021925	HP Acquire Method	HP Processing Method ps021925 81512
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM	PP24066		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS029189.D	19 Feb 2025 09:03	AR\AJ	Ok
2	I.BLK	PS029190.D	19 Feb 2025 09:27	AR\AJ	Ok
3	HSTDICC200	PS029191.D	19 Feb 2025 10:21	AR\AJ	Ok
4	HSTDICC500	PS029192.D	19 Feb 2025 10:45	AR\AJ	Ok
5	HSTDICC750	PS029193.D	19 Feb 2025 11:09	AR\AJ	Ok
6	HSTDICC1000	PS029194.D	19 Feb 2025 11:33	AR\AJ	Ok
7	HSTDICC1500	PS029195.D	19 Feb 2025 11:57	AR\AJ	Ok
8	HSTDICV750	PS029196.D	19 Feb 2025 12:21	AR\AJ	Ok
9	I.BLK	PS029197.D	19 Feb 2025 12:45	AR\AJ	Ok
10	HSTDCCC750	PS029198.D	19 Feb 2025 13:09	AR\AJ	Ok
11	PB166753BL	PS029199.D	19 Feb 2025 13:33	AR\AJ	Ok
12	PB166753BS	PS029200.D	19 Feb 2025 13:57	AR\AJ	Ok
13	Q1373-01	PS029201.D	19 Feb 2025 14:21	AR\AJ	Ok,M
14	Q1373-01MS	PS029202.D	19 Feb 2025 14:45	AR\AJ	Ok,M
15	Q1373-01MSD	PS029203.D	19 Feb 2025 15:09	AR\AJ	Ok,M
16	Q1373-02	PS029204.D	19 Feb 2025 15:33	AR\AJ	Ok,M
17	PB166735TB	PS029205.D	19 Feb 2025 15:57	AR\AJ	Ok,M
18	I.BLK	PS029206.D	19 Feb 2025 16:21	AR\AJ	Ok
19	HSTDCCC750	PS029207.D	19 Feb 2025 16:45	AR\AJ	Ok
20	PB166763BL	PS029208.D	19 Feb 2025 17:09	AR\AJ	Ok
21	PB166763BS	PS029209.D	19 Feb 2025 17:33	AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS021925

Review By	Abdul	Review On	2/20/2025 9:47:17 AM
Supervise By	Ankita	Supervise On	2/20/2025 1:02:47 PM
SubDirectory	PS021925	HP Acquire Method	HP Processing Method ps021925 81512
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24066 PP24069,PP24070		

22	Q1372-01	PS029210.D	19 Feb 2025 17:57	AR\AJ	Ok,M
23	Q1372-01MS	PS029211.D	19 Feb 2025 18:21	AR\AJ	Ok,M
24	Q1372-01MSD	PS029212.D	19 Feb 2025 18:45	AR\AJ	Ok,M
25	Q1382-01	PS029213.D	19 Feb 2025 19:09	AR\AJ	Ok,M
26	Q1382-03	PS029214.D	19 Feb 2025 19:33	AR\AJ	Ok
27	Q1382-05	PS029215.D	19 Feb 2025 19:57	AR\AJ	Ok,M
28	Q1382-07	PS029216.D	19 Feb 2025 20:21	AR\AJ	Ok
29	Q1382-09	PS029217.D	19 Feb 2025 20:45	AR\AJ	Ok
30	I.BLK	PS029218.D	19 Feb 2025 21:09	AR\AJ	Ok
31	HSTDCCC750	PS029219.D	19 Feb 2025 21:33	AR\AJ	Ok,M
32	Q1382-11	PS029220.D	19 Feb 2025 22:21	AR\AJ	Not Ok
33	Q1382-13	PS029221.D	19 Feb 2025 22:45	AR\AJ	Not Ok
34	Q1382-15	PS029222.D	19 Feb 2025 23:09	AR\AJ	Not Ok
35	Q1382-17	PS029223.D	19 Feb 2025 23:33	AR\AJ	Not Ok
36	Q1382-19	PS029224.D	19 Feb 2025 23:57	AR\AJ	Not Ok
37	PB166764BL	PS029225.D	20 Feb 2025 00:21	AR\AJ	Not Ok
38	PB166764BS	PS029226.D	20 Feb 2025 00:45	AR\AJ	Not Ok
39	Q1383-01	PS029227.D	20 Feb 2025 01:09	AR\AJ	Not Ok
40	Q1383-01MS	PS029228.D	20 Feb 2025 01:33	AR\AJ	Not Ok
41	Q1383-01MSD	PS029229.D	20 Feb 2025 01:56	AR\AJ	Not Ok
42	I.BLK	PS029230.D	20 Feb 2025 02:20	AR\AJ	Not Ok
43	HSTDCCC750	PS029231.D	20 Feb 2025 02:44	AR\AJ	Not Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS022125

Review By	Abdul	Review On	2/22/2025 8:32:12 PM
Supervise By	Ankita	Supervise On	2/24/2025 3:48:02 PM
SubDirectory	PS022125	HP Acquire Method	HP Processing Method ps0221258151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM	PP24066		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS029232.D	21 Feb 2025 19:08	AR\AJ	Ok
2	I.BLK	PS029233.D	21 Feb 2025 19:32	AR\AJ	Ok
3	HSTDICC200	PS029234.D	21 Feb 2025 19:56	AR\AJ	Ok
4	HSTDICC500	PS029235.D	21 Feb 2025 20:20	AR\AJ	Ok
5	HSTDICC750	PS029236.D	21 Feb 2025 20:44	AR\AJ	Ok
6	HSTDICC1000	PS029237.D	21 Feb 2025 21:08	AR\AJ	Ok
7	HSTDICC1500	PS029238.D	21 Feb 2025 21:32	AR\AJ	Ok
8	HSTDICV750	PS029239.D	21 Feb 2025 21:56	AR\AJ	Ok
9	I.BLK	PS029240.D	21 Feb 2025 22:20	AR\AJ	Ok
10	HSTDCCC750	PS029241.D	21 Feb 2025 22:44	AR\AJ	Ok
11	Q1383-03	PS029242.D	21 Feb 2025 23:08	AR\AJ	Ok,M
12	Q1383-05	PS029243.D	21 Feb 2025 23:32	AR\AJ	Ok,M
13	Q1383-07	PS029244.D	21 Feb 2025 23:56	AR\AJ	Ok,M
14	Q1383-09	PS029245.D	22 Feb 2025 00:20	AR\AJ	Ok,M
15	Q1383-11	PS029246.D	22 Feb 2025 00:44	AR\AJ	Ok,M
16	Q1383-13	PS029247.D	22 Feb 2025 01:08	AR\AJ	ReRun
17	Q1383-15	PS029248.D	22 Feb 2025 01:32	AR\AJ	Ok,M
18	Q1383-17	PS029249.D	22 Feb 2025 01:56	AR\AJ	Ok
19	Q1383-19	PS029250.D	22 Feb 2025 02:20	AR\AJ	Ok
20	I.BLK	PS029251.D	22 Feb 2025 02:44	AR\AJ	Ok
21	HSTDCCC750	PS029252.D	22 Feb 2025 03:08	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS022625

Review By	Review On
Supervise By	Supervise On
SubDirectory PS022625	HP Acquire Method HP Processing Method ps0221258151
STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS029289.D	26 Feb 2025 09:29	AR\AJ	Ok
2	I.BLK	PS029290.D	26 Feb 2025 09:53	AR\AJ	Ok
3	HSTDCCC750	PS029291.D	26 Feb 2025 12:55	AR\AJ	Ok,NR
4	Q1383-21	PS029292.D	26 Feb 2025 14:58	AR\AJ	Ok,NR
5	Q1383-01	PS029293.D	26 Feb 2025 15:22	AR\AJ	Ok,NR
6	Q1383-01MS	PS029294.D	26 Feb 2025 15:46	AR\AJ	Ok,NR
7	Q1383-01MSD	PS029295.D	26 Feb 2025 16:10	AR\AJ	Ok,NR
8	Q1382-11	PS029296.D	26 Feb 2025 16:34	AR\AJ	Ok,NR
9	Q1382-13	PS029297.D	26 Feb 2025 16:58	AR\AJ	Ok,NR
10	Q1382-15	PS029298.D	26 Feb 2025 17:22	AR\AJ	Ok,NR
11	Q1382-17	PS029299.D	26 Feb 2025 17:46	AR\AJ	Ok,NR
12	Q1382-19	PS029300.D	26 Feb 2025 18:10	AR\AJ	Ok,NR
13	PB166764BL	PS029301.D	26 Feb 2025 18:34	AR\AJ	Ok,NR
14	I.BLK	PS029302.D	26 Feb 2025 18:59	AR\AJ	Ok
15	HSTDCCC750	PS029303.D	26 Feb 2025 19:23	AR\AJ	Ok,NR
16	PB166764BS	PS029304.D	26 Feb 2025 20:35	AR\AJ	Ok
17	I.BLK	PS029305.D	26 Feb 2025 20:59	AR\AJ	Ok
18	HSTDCCC750	PS029306.D	26 Feb 2025 21:23	AR\AJ	Ok,NR

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS021925

Review By	Abdul	Review On	2/20/2025 9:47:17 AM
Supervise By	Ankita	Supervise On	2/20/2025 1:02:47 PM
SubDirectory	PS021925	HP Acquire Method	HP Processing Method ps021925 81512

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029189.D	19 Feb 2025 09:03		AR\AJ	Ok
2	I.BLK	I.BLK	PS029190.D	19 Feb 2025 09:27		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS029191.D	19 Feb 2025 10:21		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS029192.D	19 Feb 2025 10:45		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS029193.D	19 Feb 2025 11:09		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS029194.D	19 Feb 2025 11:33		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS029195.D	19 Feb 2025 11:57		AR\AJ	Ok
8	HSTDICV750	ICVPS021925	PS029196.D	19 Feb 2025 12:21		AR\AJ	Ok
9	I.BLK	I.BLK	PS029197.D	19 Feb 2025 12:45		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS029198.D	19 Feb 2025 13:09		AR\AJ	Ok
11	PB166753BL	PB166753BL	PS029199.D	19 Feb 2025 13:33		AR\AJ	Ok
12	PB166753BS	PB166753BS	PS029200.D	19 Feb 2025 13:57		AR\AJ	Ok
13	Q1373-01	VB27161	PS029201.D	19 Feb 2025 14:21		AR\AJ	Ok,M
14	Q1373-01MS	VB27161MS	PS029202.D	19 Feb 2025 14:45	Comp#1,14 recovery fail	AR\AJ	Ok,M
15	Q1373-01MSD	VB27161MSD	PS029203.D	19 Feb 2025 15:09	Comp#1,14 recovery fail	AR\AJ	Ok,M
16	Q1373-02	VDR25992	PS029204.D	19 Feb 2025 15:33		AR\AJ	Ok,M
17	PB166735TB	PB166735TB	PS029205.D	19 Feb 2025 15:57		AR\AJ	Ok,M
18	I.BLK	I.BLK	PS029206.D	19 Feb 2025 16:21		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS021925

Review By	Abdul	Review On	2/20/2025 9:47:17 AM
Supervise By	Ankita	Supervise On	2/20/2025 1:02:47 PM
SubDirectory	PS021925	HP Acquire Method	HP Processing Method ps021925 81512
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC	PP24066		
Internal Standard/PEM	PP24069,PP24070		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	HSTDCCC750	HSTDCCC750	PS029207.D	19 Feb 2025 16:45		AR\AJ	Ok
20	PB166763BL	PB166763BL	PS029208.D	19 Feb 2025 17:09		AR\AJ	Ok
21	PB166763BS	PB166763BS	PS029209.D	19 Feb 2025 17:33		AR\AJ	Ok
22	Q1372-01	AU-05-021425	PS029210.D	19 Feb 2025 17:57		AR\AJ	Ok,M
23	Q1372-01MS	AU-05-021425MS	PS029211.D	19 Feb 2025 18:21	some compound recovery fail	AR\AJ	Ok,M
24	Q1372-01MSD	AU-05-021425MSD	PS029212.D	19 Feb 2025 18:45	some compound recovery fail , RPD fail	AR\AJ	Ok,M
25	Q1382-01	OU4-PCS-TC-01-02172	PS029213.D	19 Feb 2025 19:09		AR\AJ	Ok,M
26	Q1382-03	OU4-PCS-TC-02-02172	PS029214.D	19 Feb 2025 19:33		AR\AJ	Ok
27	Q1382-05	OU4-PCS-TC-03-02172	PS029215.D	19 Feb 2025 19:57		AR\AJ	Ok,M
28	Q1382-07	OU4-PCS-TC-04-02172	PS029216.D	19 Feb 2025 20:21		AR\AJ	Ok
29	Q1382-09	OU4-PCS-TC-05-02172	PS029217.D	19 Feb 2025 20:45		AR\AJ	Ok
30	I.BLK	I.BLK	PS029218.D	19 Feb 2025 21:09		AR\AJ	Ok
31	HSTDCCC750	HSTDCCC750	PS029219.D	19 Feb 2025 21:33		AR\AJ	Ok,M
32	Q1382-11	OU4-PCS-TC-06-02172	PS029220.D	19 Feb 2025 22:21	END CCC Fail	AR\AJ	Not Ok
33	Q1382-13	OU4-PCS-TC-07-02172	PS029221.D	19 Feb 2025 22:45	END CCC Fail	AR\AJ	Not Ok
34	Q1382-15	OU4-PCS-TC-08-02172	PS029222.D	19 Feb 2025 23:09	END CCC Fail	AR\AJ	Not Ok
35	Q1382-17	OU4-PCS-TC-09-02172	PS029223.D	19 Feb 2025 23:33	END CCC Fail	AR\AJ	Not Ok
36	Q1382-19	OU4-PCS-TC-10-02172	PS029224.D	19 Feb 2025 23:57	END CCC Fail	AR\AJ	Not Ok
37	PB166764BL	PB166764BL	PS029225.D	20 Feb 2025 00:21	END CCC Fail	AR\AJ	Not Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS021925

Review By	Abdul	Review On	2/20/2025 9:47:17 AM
Supervise By	Ankita	Supervise On	2/20/2025 1:02:47 PM
SubDirectory	PS021925	HP Acquire Method	HP Processing Method ps021925 81512
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC	PP24066		
Internal Standard/PEM	PP24069,PP24070		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

38	PB166764BS	PB166764BS	PS029226.D	20 Feb 2025 00:45	END CCC Fail	AR\AJ	Not Ok
39	Q1383-01	OU4-PCS-TC-11-02172	PS029227.D	20 Feb 2025 01:09	END CCC Fail	AR\AJ	Not Ok
40	Q1383-01MS	OU4-PCS-TC-11-02172	PS029228.D	20 Feb 2025 01:33	END CCC Fail , Some comp recovery fail	AR\AJ	Not Ok
41	Q1383-01MSD	OU4-PCS-TC-11-02172	PS029229.D	20 Feb 2025 01:56	END CCC Fail , Some comp recovery fail	AR\AJ	Not Ok
42	I.BLK	I.BLK	PS029230.D	20 Feb 2025 02:20		AR\AJ	Not Ok
43	HSTDCCC750	HSTDCCC750	PS029231.D	20 Feb 2025 02:44	CCC Fail	AR\AJ	Not Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS022125

Review By	Abdul	Review On	2/22/2025 8:32:12 PM
Supervise By	Ankita	Supervise On	2/24/2025 3:48:02 PM
SubDirectory	PS022125	HP Acquire Method	HP Processing Method ps0221258151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029232.D	21 Feb 2025 19:08		AR\AJ	Ok
2	I.BLK	I.BLK	PS029233.D	21 Feb 2025 19:32		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS029234.D	21 Feb 2025 19:56		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS029235.D	21 Feb 2025 20:20		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS029236.D	21 Feb 2025 20:44	Method fail for comp 10	AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS029237.D	21 Feb 2025 21:08		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS029238.D	21 Feb 2025 21:32		AR\AJ	Ok
8	HSTDICV750	ICVPS022125	PS029239.D	21 Feb 2025 21:56		AR\AJ	Ok
9	I.BLK	I.BLK	PS029240.D	21 Feb 2025 22:20		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS029241.D	21 Feb 2025 22:44		AR\AJ	Ok
11	Q1383-03	OU4-PCS-TC-12-02172	PS029242.D	21 Feb 2025 23:08		AR\AJ	Ok,M
12	Q1383-05	OU4-PCS-TC-13-02172	PS029243.D	21 Feb 2025 23:32		AR\AJ	Ok,M
13	Q1383-07	OU4-PCS-TC-14-02172	PS029244.D	21 Feb 2025 23:56		AR\AJ	Ok,M
14	Q1383-09	OU4-PCS-TC-15-02172	PS029245.D	22 Feb 2025 00:20		AR\AJ	Ok,M
15	Q1383-11	OU4-PCS-TC-16-02172	PS029246.D	22 Feb 2025 00:44		AR\AJ	Ok,M
16	Q1383-13	OU4-PCS-TC-17-02172	PS029247.D	22 Feb 2025 01:08	2,4-DCAA high in 1st column	AR\AJ	ReRun
17	Q1383-15	OU4-PCS-TC-18-02172	PS029248.D	22 Feb 2025 01:32		AR\AJ	Ok,M
18	Q1383-17	OU4-PCS-TC-19-02172	PS029249.D	22 Feb 2025 01:56		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS022125

Review By	Abdul	Review On	2/22/2025 8:32:12 PM
Supervise By	Ankita	Supervise On	2/24/2025 3:48:02 PM
SubDirectory	PS022125	HP Acquire Method	HP Processing Method ps0221258151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard	PP24069,PP24070
MS/MSD Standard LCS Standard	

19	Q1383-19	OU4-PCS-TC-20-02172	PS029250.D	22 Feb 2025 02:20		AR\AJ	Ok
20	I.BLK	I.BLK	PS029251.D	22 Feb 2025 02:44		AR\AJ	Ok
21	HSTDCCC750	HSTDCCC750	PS029252.D	22 Feb 2025 03:08		AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS022625

Review By	Review On
Supervise By	Supervise On
SubDirectory	PS022625
HP Acquire Method	HP Processing Method
	ps0221258151
STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029289.D	26 Feb 2025 09:29		AR\AJ	Ok
2	I.BLK	I.BLK	PS029290.D	26 Feb 2025 09:53		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS029291.D	26 Feb 2025 12:55		AR\AJ	Ok,NR
4	Q1383-21	OU4-CF-15-021725	PS029292.D	26 Feb 2025 14:58		AR\AJ	Ok,NR
5	Q1383-01	OU4-PCS-TC-11-021725	PS029293.D	26 Feb 2025 15:22		AR\AJ	Ok,NR
6	Q1383-01MS	OU4-PCS-TC-11-021725	PS029294.D	26 Feb 2025 15:46	some compound recovery fail	AR\AJ	Ok,NR
7	Q1383-01MSD	OU4-PCS-TC-11-021725	PS029295.D	26 Feb 2025 16:10	some compound recovery fail	AR\AJ	Ok,NR
8	Q1382-11	OU4-PCS-TC-06-021725	PS029296.D	26 Feb 2025 16:34		AR\AJ	Ok,NR
9	Q1382-13	OU4-PCS-TC-07-021725	PS029297.D	26 Feb 2025 16:58		AR\AJ	Ok,NR
10	Q1382-15	OU4-PCS-TC-08-021725	PS029298.D	26 Feb 2025 17:22		AR\AJ	Ok,NR
11	Q1382-17	OU4-PCS-TC-09-021725	PS029299.D	26 Feb 2025 17:46		AR\AJ	Ok,NR
12	Q1382-19	OU4-PCS-TC-10-021725	PS029300.D	26 Feb 2025 18:10		AR\AJ	Ok,NR
13	PB166764BL	PB166764BL	PS029301.D	26 Feb 2025 18:34		AR\AJ	Ok,NR
14	I.BLK	I.BLK	PS029302.D	26 Feb 2025 18:59		AR\AJ	Ok
15	HSTDCCC750	HSTDCCC750	PS029303.D	26 Feb 2025 19:23		AR\AJ	Ok,NR
16	PB166764BS	PB166764BS	PS029304.D	26 Feb 2025 20:35		AR\AJ	Ok
17	I.BLK	I.BLK	PS029305.D	26 Feb 2025 20:59		AR\AJ	Ok
18	HSTDCCC750	HSTDCCC750	PS029306.D	26 Feb 2025 21:23		AR\AJ	Ok,NR

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS022625

Review By		Review On	
Supervise By		Supervise On	
SubDirectory	PS022625	HP Acquire Method	HP Processing Method ps0221258151
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC	PP24066		
Internal Standard/PEM			
ICV/I.BLK	PP24069,PP24070		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/19/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:40
In Date: 02/18/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134739

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q1380-06	BP-VPB-192-GW-725-727	1	1.15	8.48	9.63	1.78	7.4	SLUDGE SAMPLE
Q1380-07	Q1380-06MS	2	1.15	8.48	9.63	1.78	7.4	SLUDGE SAMPLE
Q1380-08	Q1380-06MSD	3	1.15	8.48	9.63	1.78	7.4	SLUDGE SAMPLE
Q1382-01	OU4-PCS-TC-01-021725	4	1.15	8.56	9.71	9.02	91.9	
Q1382-03	OU4-PCS-TC-02-021725	5	1.15	8.59	9.74	9.03	91.7	
Q1382-05	OU4-PCS-TC-03-021725	6	1.15	8.56	9.71	9.06	92.4	
Q1382-07	OU4-PCS-TC-04-021725	7	1.16	8.80	9.96	9.3	92.5	
Q1382-09	OU4-PCS-TC-05-021725	8	1.16	8.65	9.81	9.12	92.0	
Q1382-11	OU4-PCS-TC-06-021725	9	1.12	8.76	9.88	9.2	92.2	
Q1382-13	OU4-PCS-TC-07-021725	10	1.11	8.67	9.78	9.1	92.2	
Q1382-15	OU4-PCS-TC-08-021725	11	1.19	8.61	9.8	9.16	92.6	
Q1382-17	OU4-PCS-TC-09-021725	12	1.14	8.66	9.8	9.16	92.6	
Q1382-19	OU4-PCS-TC-10-021725	13	1.14	8.84	9.98	9.4	93.4	
Q1383-01	OU4-PCS-TC-11-021725	14	1.17	8.74	9.91	9.26	92.6	
Q1383-03	OU4-PCS-TC-12-021725	15	1.15	8.73	9.88	9.2	92.2	
Q1383-05	OU4-PCS-TC-13-021725	16	1.12	8.76	9.88	9.22	92.5	
Q1383-07	OU4-PCS-TC-14-021725	17	1.18	8.58	9.76	9.08	92.1	
Q1383-09	OU4-PCS-TC-15-021725	18	1.13	8.77	9.9	9.24	92.5	
Q1383-11	OU4-PCS-TC-16-021725	19	1.16	8.61	9.77	9.09	92.1	
Q1383-13	OU4-PCS-TC-17-021725	20	1.19	8.58	9.77	9.03	91.4	
Q1383-15	OU4-PCS-TC-18-021725	21	1.15	8.60	9.75	9.05	91.9	
Q1383-17	OU4-PCS-TC-19-021725	22	1.15	8.84	9.99	9.29	92.1	
Q1383-19	OU4-PCS-TC-20-021725	23	1.13	8.67	9.8	9.12	92.2	
Q1383-21	OU4-CF-15-021725	24	1.16	8.50	9.66	9.02	92.5	
Q1384-01	OR-03-021823025	25	1.15	8.81	9.96	8.96	88.6	
Q1384-02	OR-03-021823025-E2	26	1.17	8.82	9.99	9.04	89.2	
Q1385-01	ST-1	27	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1385-02	ST-1-E2	28	1.00	1.00	2.00	2.00	100.0	CONCRETE sample

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-021825

WorkList ID : 187742

Department : Wet-Chemistry

Date : 02-18-2025 08:35:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1380-06	BP-VPB-192-GW-725-727	Solid	Percent Solids	Cool 4 deg C	TETR06	H31	02/10/2025	Chemtech -SO
Q1380-07	Q1380-06MS	Solid	Percent Solids	Cool 4 deg C	TETR06	H31	02/10/2025	Chemtech -SO
Q1380-08	Q1380-06MSD	Solid	Percent Solids	Cool 4 deg C	TETR06	H31	02/10/2025	Chemtech -SO
Q1382-01	OU4-PCS-TC-01-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1382-03	OU4-PCS-TC-02-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1382-05	OU4-PCS-TC-03-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1382-07	OU4-PCS-TC-04-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1382-09	OU4-PCS-TC-05-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1382-11	OU4-PCS-TC-06-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1382-13	OU4-PCS-TC-07-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1382-15	OU4-PCS-TC-08-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1382-17	OU4-PCS-TC-09-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1382-19	OU4-PCS-TC-10-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1383-01	OU4-PCS-TC-11-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1383-03	OU4-PCS-TC-12-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1383-05	OU4-PCS-TC-13-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1383-07	OU4-PCS-TC-14-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1383-09	OU4-PCS-TC-15-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1383-11	OU4-PCS-TC-16-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1383-13	OU4-PCS-TC-17-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1383-15	OU4-PCS-TC-18-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO

Date/Time 02/18/25 15:00

Raw Sample Received by: *TH WWC*

Raw Sample Relinquished by: *OP*

Date/Time 02/18/25

Raw Sample Received by: *OP*

Raw Sample Relinquished by: *OP*

WORKLIST(Hardcopy Internal Chain)

8134439

WorkList Name : %1-021825 WorkList ID : 187742 Department : Wet-Chemistry Date : 02-18-2025 08:35:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1383-17	OU4-PCS-TC-19-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1383-19	OU4-PCS-TC-20-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1383-21	OU4-CF-15-021725	Solid	Percent Solids	Cool 4 deg C	NOBI03	H31	02/17/2025	Chemtech -SO
Q1384-01	OR-03-021823025	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/18/2025	Chemtech -SO
Q1384-02	OR-03-021823025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/18/2025	Chemtech -SO
Q1385-01	ST-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	H21	02/18/2025	Chemtech -SO
Q1385-02	ST-1-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	H21	02/18/2025	Chemtech -SO

Date/Time 02/18/25 15:00
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 02/18/25 17:00
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: E3574

Extraction Method: ☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,4,7

Extraction Start Date : 02/18/2025

Extraction Start Time : 13:16

Extraction End Date : 02/19/2025

Extraction End Time : 12:00

Concentration By: EH

Supervisor By : rajesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24079
Surrogate	1.0ML	5000 PPB	PP24078
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2582
Acidified Na2SO4	N/A	EP2576
Sand	N/A	E2865
HCL	N/A	M6111
DI WATER	N/A	N/A
37% KOH	N/A	EP2563
Methylene Chloride	N/A	E3878
1:3 SULPHURIC ACID	N/A	EP2587
Ether	N/A	E3881
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14150
Diazomethane	N/A	EP2575
Hexane	N/A	E3872
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH adjusted with HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ML Vial Lot # 03-40 BTS721.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/19/25	RP (Set 2a3)	J. Post/PCB Lab
12:05	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 02/19/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166763BL	HBLK763	Herbicide Group1	30.01	N/A	ritesh	Evelyn	10			U2-1
PB166763BS	HLCS763	Herbicide Group1	30.02	N/A	ritesh	Evelyn	10			2
Q1372-01	AU-05-021425	Herbicide	30.04	N/A	ritesh	Evelyn	10	B		3
Q1372-01MS	AU-05-021425MS	Herbicide	30.09	N/A	ritesh	Evelyn	10	B		4
Q1372-01MS D	AU-05-021425MSD	Herbicide	30.07	N/A	ritesh	Evelyn	10	B		5
Q1382-01	OU4-PCS-TC-01-021725	Herbicide Group1	30.03	N/A	ritesh	Evelyn	10	E		6
Q1382-03	OU4-PCS-TC-02-021725	Herbicide Group1	30.05	N/A	ritesh	Evelyn	10	E		U3-1
Q1382-05	OU4-PCS-TC-03-021725	Herbicide Group1	30.02	N/A	ritesh	Evelyn	10	E		2
Q1382-07	OU4-PCS-TC-04-021725	Herbicide Group1	30.09	N/A	ritesh	Evelyn	10	E		3
Q1382-09	OU4-PCS-TC-05-021725	Herbicide Group1	30.05	N/A	ritesh	Evelyn	10	E		4
Q1382-11	OU4-PCS-TC-06-021725	Herbicide Group1	30.03	N/A	ritesh	Evelyn	10	E		5
Q1382-13	OU4-PCS-TC-07-021725	Herbicide Group1	30.06	N/A	ritesh	Evelyn	10	E		6
Q1382-15	OU4-PCS-TC-08-021725	Herbicide Group1	30.04	N/A	ritesh	Evelyn	10	E		U4-1
Q1382-17	OU4-PCS-TC-09-021725	Herbicide Group1	30.07	N/A	ritesh	Evelyn	10	E		2
Q1382-19	OU4-PCS-TC-10-021725	Herbicide Group1	30.02	N/A	ritesh	Evelyn	10	E		3

* Extracts relinquished on the same date as received.

2/19/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1382 WorkList ID : 187749 Department : Extraction Date : 02-18-2025 13:12:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1372-01	AU-05-021425	Solid	Herbicide	Cool 4 deg C	PSEG05	H21	02/14/2025	8151A
Q1382-01	OU4-PCS-TC-01-021725	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	H31	02/17/2025	8151A
Q1382-03	OU4-PCS-TC-02-021725	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	H31	02/17/2025	8151A
Q1382-05	OU4-PCS-TC-03-021725	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	H31	02/17/2025	8151A
Q1382-07	OU4-PCS-TC-04-021725	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	H31	02/17/2025	8151A
Q1382-09	OU4-PCS-TC-05-021725	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	H31	02/17/2025	8151A
Q1382-11	OU4-PCS-TC-06-021725	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	H31	02/17/2025	8151A
Q1382-13	OU4-PCS-TC-07-021725	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	H31	02/17/2025	8151A
Q1382-15	OU4-PCS-TC-08-021725	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	H31	02/17/2025	8151A
Q1382-17	OU4-PCS-TC-09-021725	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	H31	02/17/2025	8151A
Q1382-19	OU4-PCS-TC-10-021725	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	H31	02/17/2025	8151A

Date/Time 02/18/25 13:14
 Raw Sample Received by: 21 (Sed Low)
 Raw Sample Relinquished by: 21 (Sed Low)

Date/Time 02/18/25 13:40
 Raw Sample Received by: 21 (Sed Low)
 Raw Sample Relinquished by: 21 (Sed Low)

Prep Standard - Chemical Standard Summary

Order ID : Q1382

Test : Herbicide Group1

Prepbatch ID : PB166763,

Sequence ID/Qc Batch ID: ps021925,ps022625,

Standard ID :

EP2576,EP2582,PP24061,PP24062,PP24064,PP24065,PP24066,PP24067,PP24068,PP24069,PP24070,PP24078,PP24079,

Chemical ID :

E2865,E3370,E3551,E3826,E3843,E3873,E3874,M5173,M6111,P10549,P11180,P11181,P12619,P12629,P12686,P12708,P12709,P13506,P13507,P13508,P13509,P13523,P13524,P13525,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
601	Acidified Sodium Sulphate 2	EP2576	01/06/2025	06/02/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/06/2025
<u>FROM</u>	100.00000ml of E3370 + 150.00000ml of M5173 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2582	02/04/2025	07/29/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 02/04/2025
<u>FROM</u> 8000.00000ml of E3873 + 8000.00000ml of E3874 = Final Quantity: 16000.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1321	2/200 PPM Herb Mega Mix	PP24061	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
<u>FROM</u> 0.20000ml of P10549 + 1.00000ml of P11180 + 1.00000ml of P12619 + 1.00000ml of P12629 + 1.00000ml of P12686 + 95.80000ml of E3826 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP24062	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
<u>FROM</u> 1.00000ml of P11181 + 1.00000ml of P12708 + 1.00000ml of P12709 + 97.00000ml of E3826 = Final Quantity: 100.000 ml								

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1452	1500 PPB HERB MIX STD	PP24064	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24061 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1453	1000 PPB Herb MIX STD	PP24065	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24061 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1454	750 PPB Herb MIX STD	PP24066	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24065 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1455	500 PPB Herb MIX STD	PP24067	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24061 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1456	200 PPB Herb MIX STD	PP24068	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.90000ml of E3826 + 0.10000ml of PP24061 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1854	1000 PPB HERB MIX ICV STD	PP24069	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24062 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1691	750 PPB ICV HERB STD	PP24070	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24069 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP24078	12/10/2024	06/05/2025	Abdul Mirza	None	None	Ankita Jodhani
								12/17/2024

FROM 1.25000ml of P13506 + 1.25000ml of P13507 + 1.25000ml of P13508 + 1.25000ml of P13509 + 195.00000ml of E3843 = Final Quantity: 200.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP24079	12/11/2024	06/05/2025	Abdul Mirza	None	None	Ankita Jodhani
12/17/2024								
<u>FROM</u>	0.50000ml of P13525 + 1.00000ml of P13523 + 1.00000ml of P13524 + 47.50000ml of E3843 = Final Quantity: 50.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9244-03 / Ether, Anhydrous, Purified (cs/4x4L)	0000288039	07/17/2025	08/01/2022 / Rajesh	07/13/2022 / Rajesh	E3370

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	05/09/2025	11/09/2024 / Rajesh	11/07/2024 / Rajesh	E3826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/05/2025	12/05/2024 / Rajesh	12/05/2024 / Rajesh	E3843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22F0762009	05/09/2027	11/04/2024 / Eman	09/29/2024 / Janvi	M6111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0170243	05/26/2025	11/26/2024 / Ankita	04/06/2021 / dhaval	P10549

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11180

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11181

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32062 / Herbicide Mix, 500/8000, Standard #4 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0155055	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12619

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32055 / Herbicide Mix, 500/8000, Standard #1 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A192429	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12629

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32059 / Herbicide Mix#3 (Methyl Ester), 20000 ug/ml	A0199844	05/26/2025	11/26/2024 / Ankita	07/24/2023 / Abdul	P12686

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13506

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13507

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13508

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13509

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13523

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13523

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13525

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

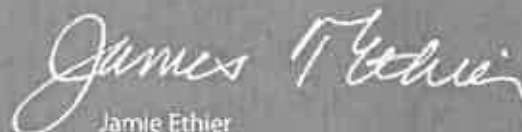
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Ether, Anhydrous
BAKER ANALYZED® A.C.S. Reagent
Contains BHT as a Preservative
Suitable for Fat Extraction



Material No.: 9244-03
Batch No.: 0000288039
Manufactured Date: 2021/07/22
Expiration Date: 2023/07/22
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

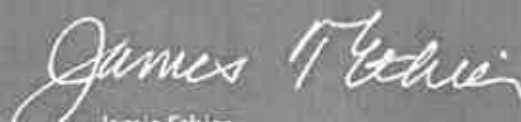
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titration Acid (μeq/g)	<= 0.2	< 0.2
Water (by KF, coulometric)	<= 0.01 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Recd. by RP on 7/13/22

E 3370


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

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MONTERREY, N.L. MEXICO
CP 64070
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www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 12/5/24

E 3843

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/29/25

E 3873

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Receive date
9/29/24
Met diag.

 avantor™



Material No.: 9530-33
Batch No.: 22F0762009
Manufactured Date: 2022-05-10
Retest Date: 2027-05-09
Revision No.: 0

M6109
M6110
M6111

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	0.8 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	14.9 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	1.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	0.7 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**

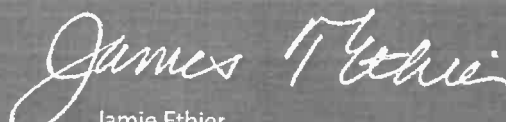


Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result

For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

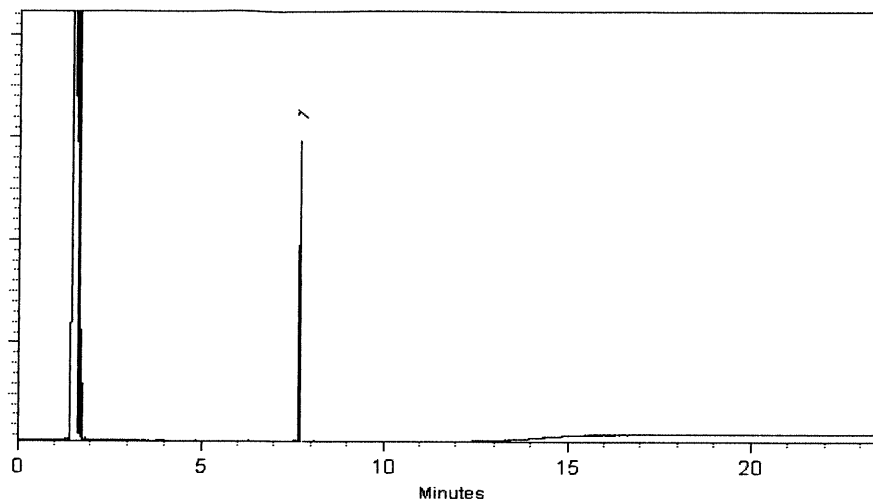
250°C

Det. Temp:

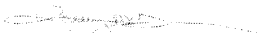
330°C

Det. Type:

FID

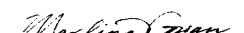


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P11177
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P11186
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AR
01/02/21

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

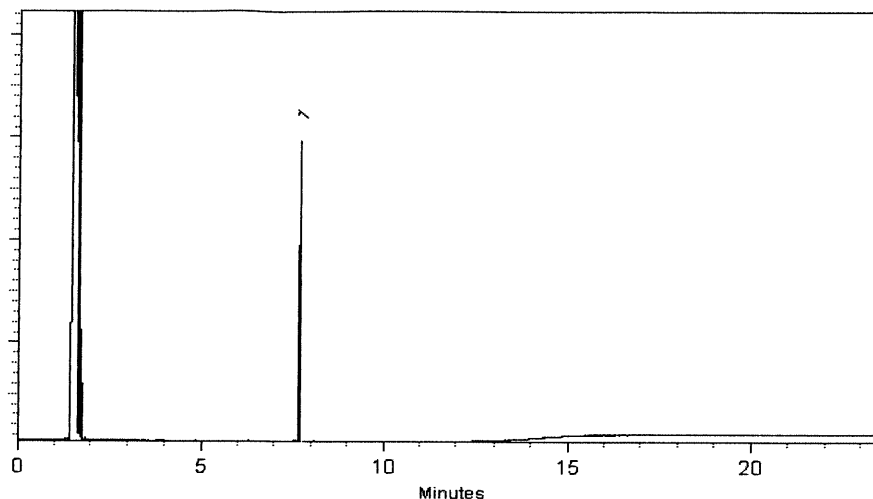
250°C

Det. Temp:

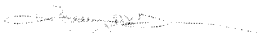
330°C

Det. Type:

FID

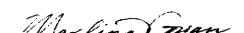


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P11177
↓
P11186
—
AR
01/02/21



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32062 **Lot No.:** A0155055

Description : Herbicide Mix #4/ME (Methyl Ester)

Herbicide Mix #4/ME (Methyl Ester) 200µg/mL,
Hexane/Methyl-tert-butyl-ether, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 10°C or colder

P12616 / (5)
↓
P12620
Date = 7/5/2023

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	3,5-Dichlorobenzoic acid methyl ester CAS # 2905-67-1 (Lot 3903900) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
2	4-Nitroanisole CAS # 100-17-4 (Lot 24765/7) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
3	Pentachloroanisole CAS # 1825-21-4 (Lot 7921100) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
4	Chloramben methyl ester CAS # 7286-84-2 (Lot 6487100) Purity 98%	199.9 µg/mL	+/- 1.4176	µg/mL	Gravimetric	
			+/- 6.7480	µg/mL	Unstressed	
			+/- 6.7480	µg/mL	Stressed	
5	Bentazon methyl ester CAS # 61592-45-8 (Lot 817100) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
6	Picloram methyl ester CAS # 14143-55-6 (Lot 386-21B) Purity 98%	201.9 µg/mL	+/- 1.4315	µg/mL	Gravimetric	
			+/- 6.8141	µg/mL	Unstressed	
			+/- 6.8141	µg/mL	Stressed	
7	DCPA methyl ester (Chlorthal-dimethyl) CAS # 1861-32-1 (Lot 8008700) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	

8	Acifluorfen methyl ester	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 50594-67-7 (Lot 6282300)		+/- 6.7507	µg/mL	Unstressed
	Purity 99%		+/- 6.7507	µg/mL	Stressed

Solvent: Hexane/Methyl-tert-butyl-ether
CAS # 110-54-3/1634-04-4
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

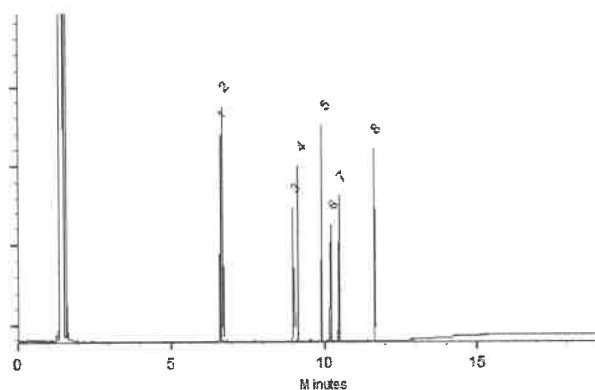
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maje

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson
Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32055 **Lot No.:** A0192429

Description : Herbicide Mix #1/ME (Methyl Ester)
Herbicide Mix #1/ME (Methyl Ester) 200 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P12626 / 5
P12630
7/5/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dicamba methyl ester	6597-78-0	11705400	99%	201.6 µg/mL	+/- 3.4204
2	Dichlorprop methyl ester	57153-17-0	11672100	99%	201.4 µg/mL	+/- 3.4170
3	2,4-D methyl ester	1928-38-7	10048000	99%	201.2 µg/mL	+/- 3.4136
4	2,4,5-TP (silvex) methyl ester	4841-20-7	6364900	99%	201.2 µg/mL	+/- 3.4136
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	200.7 µg/mL	+/- 3.4052
6	Dinoseb methyl ether	6099-79-2	12914300	99%	200.8 µg/mL	+/- 3.4068
7	2,4-DB methyl ester	18625-12-2	12542000	99%	201.0 µg/mL	+/- 3.4102

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

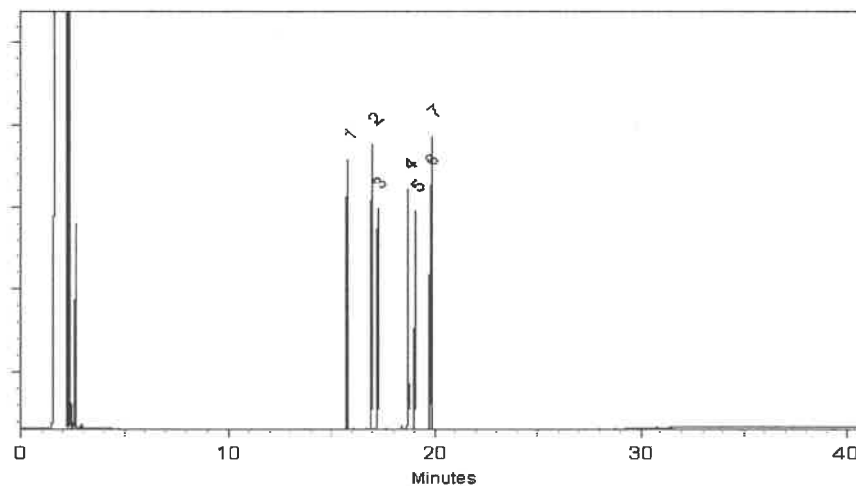
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Penelope Riglin - Operations Tech I

Date Mixed: 09-Dec-2022

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 12-Dec-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32059 **Lot No.:** A0199844
Description : Herbicide Mix #3/ME (Methyl Ester)
Herbicide Mix #3/ME (Methyl Ester) 20,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2030 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P 12685 / (S)
↓
P 12689
↓
RAU = 7/24/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	MCPP (Mecoprop) methyl ester	23844-56-6	14546400	99%	20,035.0 µg/mL	+/- 360.1907
2	MCPA methyl ester	2436-73-9	SL201209	99%	20,055.0 µg/mL	+/- 360.5503

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

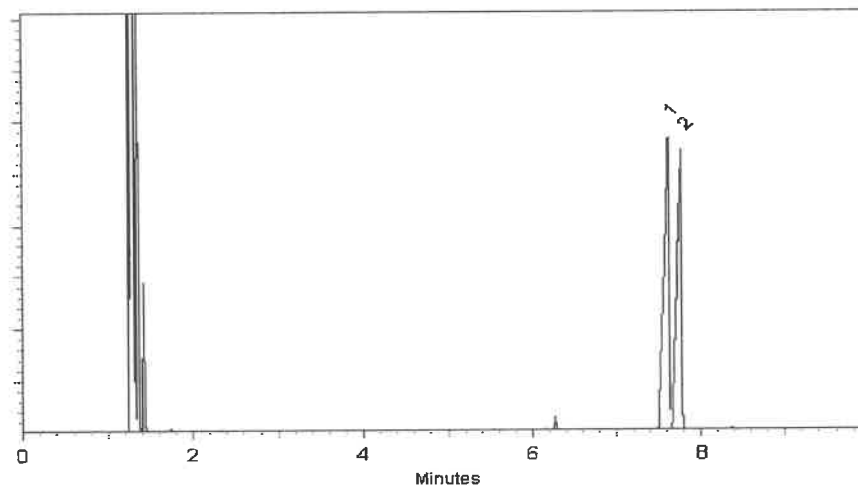
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 12-Jul-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 19-Jul-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P12706
↓
P12715
/ (10)
/ 1
/ 8/15/23

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Lot Number: 0006752480

Product Number: HBM-8151M-1

Lot Issue Date: 18-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen methyl ester	100.3 ±	0.5 µg/mL	050594-67-7	RM03058
bentazon methyl derivative	100.2 ±	0.5 µg/mL	061592-45-8	RM13829
chloramben methyl ester	100.4 ±	0.5 µg/mL	007286-84-2	RM03055
2,4-D methyl ester	100.2 ±	0.5 µg/mL	001928-38-7	RM03040
dalapon methyl ester	100.4 ±	0.5 µg/mL	017640-02-7	RM14219
2,4-DB methyl ester	100.2 ±	0.5 µg/mL	018625-12-2	RM03029
DCPA	100.2 ±	0.5 µg/mL	001861-32-1	RM13426
dicamba methyl ester	100.4 ±	0.5 µg/mL	006597-78-0	RM03039
methyl-3,5-dichlorobenzoate	100.1 ±	0.5 µg/mL	002905-67-1	RM03048
dichlorprop methyl ester	100.4 ±	0.5 µg/mL	057153-17-0	NT02086
dinoseb methyl ether	100.5 ±	0.5 µg/mL	006099-79-2	RM03051
MCPA methyl ester	10031 ±	50 µg/mL	002436-73-9	RM12863
MCPP methyl ester	10031 ±	50 µg/mL	023844-56-6	RM20060
4-nitroanisole	100.3 ±	0.5 µg/mL	000100-17-4	RM02806
pentachloroanisole	100.4 ±	0.5 µg/mL	001825-21-4	RM02457
picloram methyl ester	100.2 ±	0.5 µg/mL	014143-55-6	RM03044
silvex methyl ester	100.2 ±	0.5 µg/mL	004841-20-7	RM03799
2,4,5-T methyl ester	100.4 ±	0.5 µg/mL	001928-37-6	RM03033

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

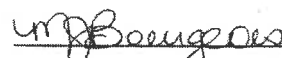
Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative

P12706 / (10)
↓
P12715
✓ RAUF
8.15.23



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO
9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

P12706
↓
P12715
/ (10)
/ 1
/ 8/15/23

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Lot Number: 0006752480

Product Number: HBM-8151M-1

Lot Issue Date: 18-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen methyl ester	100.3 ±	0.5 µg/mL	050594-67-7	RM03058
bentazon methyl derivative	100.2 ±	0.5 µg/mL	061592-45-8	RM13829
chloramben methyl ester	100.4 ±	0.5 µg/mL	007286-84-2	RM03055
2,4-D methyl ester	100.2 ±	0.5 µg/mL	001928-38-7	RM03040
dalapon methyl ester	100.4 ±	0.5 µg/mL	017640-02-7	RM14219
2,4-DB methyl ester	100.2 ±	0.5 µg/mL	018625-12-2	RM03029
DCPA	100.2 ±	0.5 µg/mL	001861-32-1	RM13426
dicamba methyl ester	100.4 ±	0.5 µg/mL	006597-78-0	RM03039
methyl-3,5-dichlorobenzoate	100.1 ±	0.5 µg/mL	002905-67-1	RM03048
dichlorprop methyl ester	100.4 ±	0.5 µg/mL	057153-17-0	NT02086
dinoseb methyl ether	100.5 ±	0.5 µg/mL	006099-79-2	RM03051
MCPA methyl ester	10031 ±	50 µg/mL	002436-73-9	RM12863
MCPP methyl ester	10031 ±	50 µg/mL	023844-56-6	RM20060
4-nitroanisole	100.3 ±	0.5 µg/mL	000100-17-4	RM02806
pentachloroanisole	100.4 ±	0.5 µg/mL	001825-21-4	RM02457
picloram methyl ester	100.2 ±	0.5 µg/mL	014143-55-6	RM03044
silvex methyl ester	100.2 ±	0.5 µg/mL	004841-20-7	RM03799
2,4,5-T methyl ester	100.4 ±	0.5 µg/mL	001928-37-6	RM03033

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

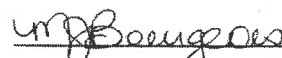
Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative

P12706 / (10)
↓
P12715
✓ RAUF
8.15.23



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO
9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

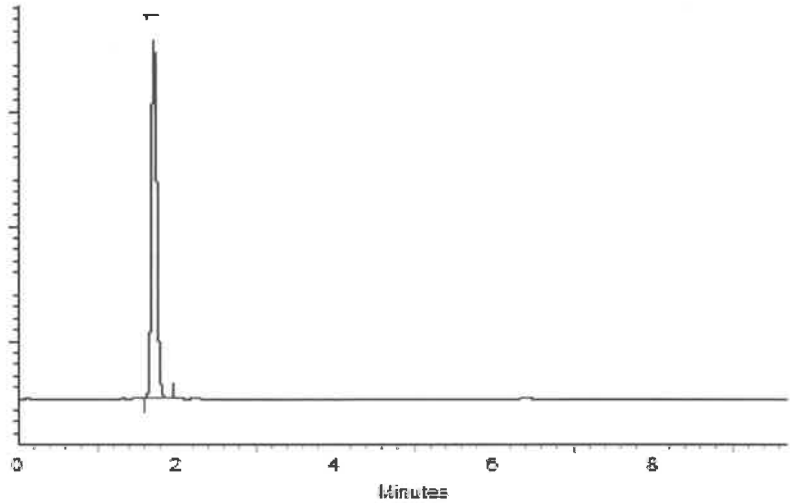
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

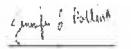


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

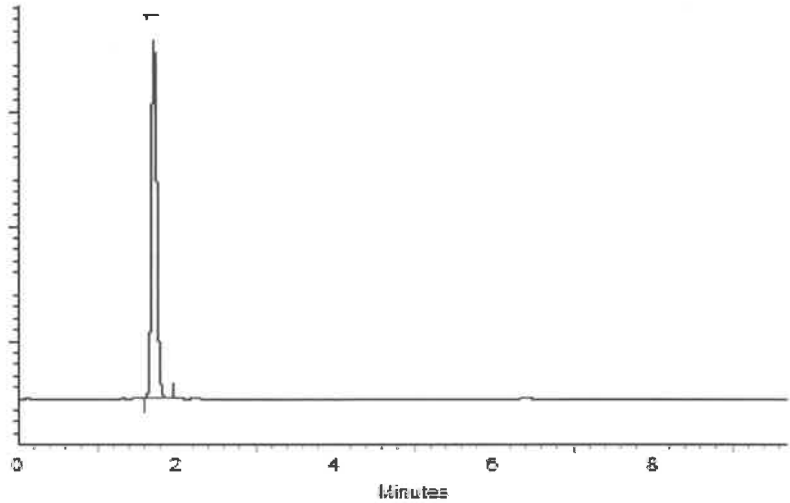
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

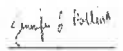


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

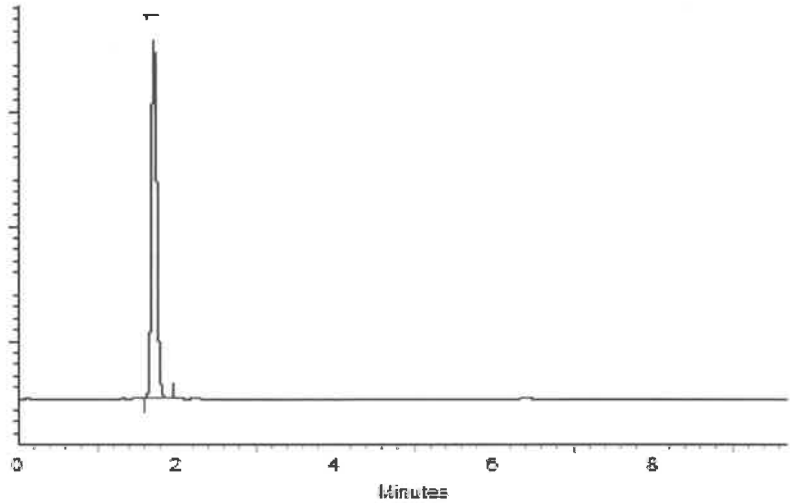
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

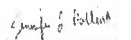


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

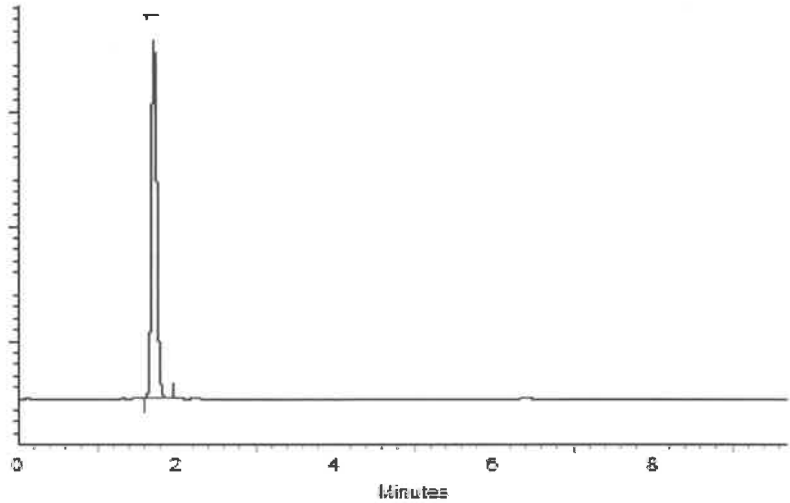
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

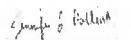


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4 ±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

P13520
↓
P13536 } (18)

BACF
9/4/2024

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard
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Expiration Date: 30-Sep-2026

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2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

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P13520
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P13520
↓
P13536 } (18)

BACF
9/4/2024



SHIPPING DOCUMENTS

Chemtech

Phone: (908) 789-8900
Fax: (908) 789-8922

http://www.contestlabs.com
CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 4.01/08/2020

Page 1 of 2

284 Sheffield Street, Mountainside, NJ 07092

Company Name: Nobis Group

Address: 55 Technology Dr Suite 101, Lowell, MA 01851

Phone: 978-703-6014

Project Name: Raymark

Project Location: Stratford, CT

Project Number: 95700

Project Manager: Adam Roy

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By: A. Brittingham

Con-Test Work Order#

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

COMP/GRAB

Matrix Code

Conc Code

VIALS

GLASS

PLASTIC

BACTERIA

ENCORE

Requested Turnaround Time

5-Day ☐ 10-Day ☒

PFA5 10-Day (std) ☐ Due Date:

Rush-Approval Required

1-Day ☐ 3-Day ☐ 4-Day ☐

Orthophosphate Samples

Field Filtered Lab to Filter

Format: PDF ☒ EXCEL ☒

CLP Like Data Pkg Required: ☐ No

Other: Email To: aroy@nobis-group.com

Fax To #:

SOXHLET ☒ NON SOXHLET ☐

PCB ONLY

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

ANALYSIS REQUESTED

M/O I I I I I I I I I I I

RCP VOCs

% Solids

PAHs

Herbicides

Pesticides

PCBs

Metals ICP + Hg - 6010

Cyanide

SPLP RCP Metals - 6020

Total Number Of:

VIALS

GLASS

PLASTIC

BACTERIA

ENCORE

Glassware in the fridge?

Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

1 Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water

A = Air

S = Soil

SL = Sludge

SOL = Solid

O = Other (please define)

2 Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium Thiosulfate

O = Other (please define)

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

MA MCP Required

3.1.1

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1382	NOBI03	Order Date : 2/18/2025 10:57:00 AM	Project Mgr :
Client Name : Nobis Group		Project Name : Raymark Superfund Site	Report Type : Level 4
Client Contact : Adam Roy		Receive DateTime : 2/18/2025 10:25:00 AM	EDD Type : EQUIS
Invoice Name : Nobis Group		Purchase Order :	Hard Copy Date :
Invoice Contact : Adam Roy			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1382-01	OU4-PCS-TC-01-021725	Solid	02/17/2025	08:30					
					VOCMS Group3		8260D	10 Bus. Days	
Q1382-03	OU4-PCS-TC-02-021725	Solid	02/17/2025	08:35					
					VOCMS Group3		8260D	10 Bus. Days	
Q1382-05	OU4-PCS-TC-03-021725	Solid	02/17/2025	08:40					
					VOCMS Group3		8260D	10 Bus. Days	
Q1382-07	OU4-PCS-TC-04-021725	Solid	02/17/2025	08:45					
					VOCMS Group3		8260D	10 Bus. Days	
Q1382-09	OU4-PCS-TC-05-021725	Solid	02/17/2025	08:50					
					VOCMS Group3		8260D	10 Bus. Days	
Q1382-11	OU4-PCS-TC-06-021725	Solid	02/17/2025	08:55					
					VOCMS Group3		8260D	10 Bus. Days	
Q1382-13	OU4-PCS-TC-07-021725	Solid	02/17/2025	09:00					
					VOCMS Group3		8260D	10 Bus. Days	
Q1382-15	OU4-PCS-TC-08-021725	Solid	02/17/2025	09:05					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1382	NOBI03	Order Date : 2/18/2025 10:57:00 AM	Project Mgr :
Client Name : Nobis Group		Project Name : Raymark Superfund Site	Report Type : Level 4
Client Contact : Adam Roy		Receive DateTime : 2/18/2025 10:25:00 AM	EDD Type : EQUIS
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Invoice Contact : Adam Roy			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group3		8260D		10 Bus. Days
Q1382-17	OU4-PCS-TC-09-021725	Solid	02/17/2025	09:10					
					VOCMS Group3		8260D		10 Bus. Days
Q1382-19	OU4-PCS-TC-10-021725	Solid	02/17/2025	09:15					
					VOCMS Group3		8260D		10 Bus. Days

Relinquished By :



Date / Time :

2-18-25 1245

Received By :



Date / Time :

02/18/25

Storage Area : VOA Refridgerator Room

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029211.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 18:21
 Operator : AR\AJ
 Sample : Q1372-01MS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 AU-05-021425MS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:33:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.158	7.637	292.8E6	131.3E6	175.709	135.765
Target Compounds							
1) T	Dalapon	2.600	2.653	1267.8E6	931.4E6	385.629	438.388
2) T	3,5-DICHL...	6.342	6.609	263.6E6	150.2E6	105.845	103.153
3) T	4-Nitroph...	6.957	7.167	286.4E6	210.8E6	199.746	246.203
5) T	DICAMBA	7.342	7.832	1193.2E6	700.1E6	135.976	132.511
6) T	MCPD	7.519	7.932	2012785	13185786	<MDL	5.780 #
7) T	MCPA	7.667	8.171	38508715	26792404	8.579	8.501
8) T	DICHLORPROP	8.042	8.542	219.8E6	136.6E6	98.513	104.277
9) T	2,4-D	8.271	8.866	419.8E6	228.2E6	184.680	173.926
10) T	Pentachlo...	8.564	9.385	3044.6E6	1726.6E6	73.130	72.574
11) T	2,4,5-TP ...	9.139	9.763	1011.5E6	674.1E6	62.731	71.892
12) T	2,4,5-T	9.429	10.178	1205.9E6	703.6E6	79.218	81.312
13) T	2,4-DB	10.002	10.741	435.7E6	71066549	180.241	83.109 #
14) T	DINOSEB	11.195	11.116	226.5E6	123.0E6	17.829	18.993
15) T	Picloram	11.008	12.194	5616.8E6	2605.0E6	214.930	207.728
16) T	DCPA	11.490	12.153	7462.7E6	4115.2E6	285.327	331.282

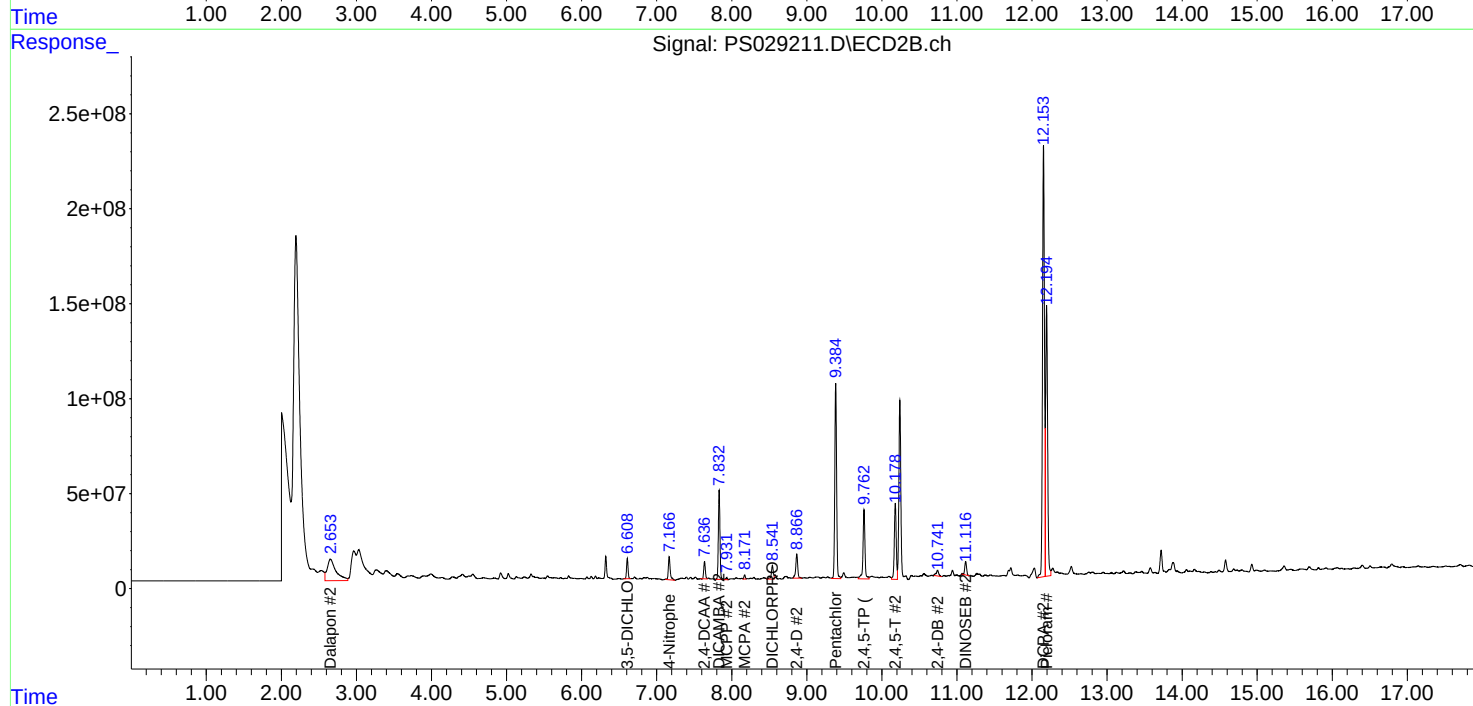
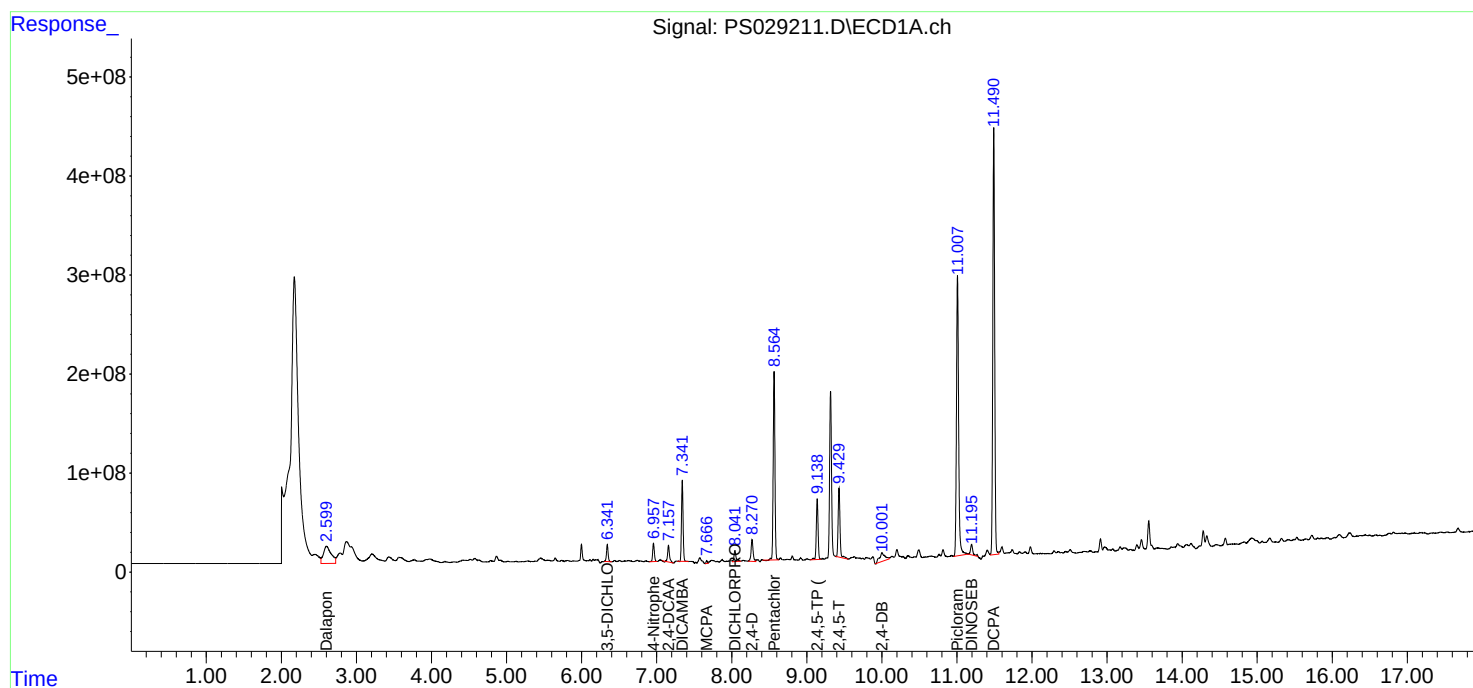
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

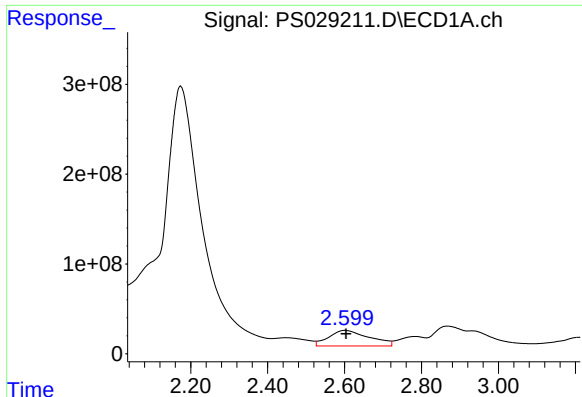
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029211.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 18:21
Operator : AR\AJ
Sample : Q1372-01MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:33:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

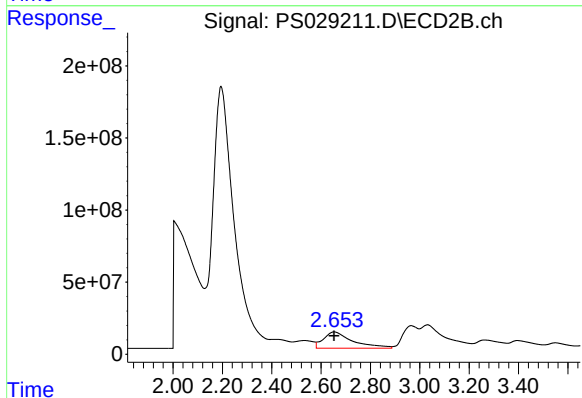




#1 Dalapon

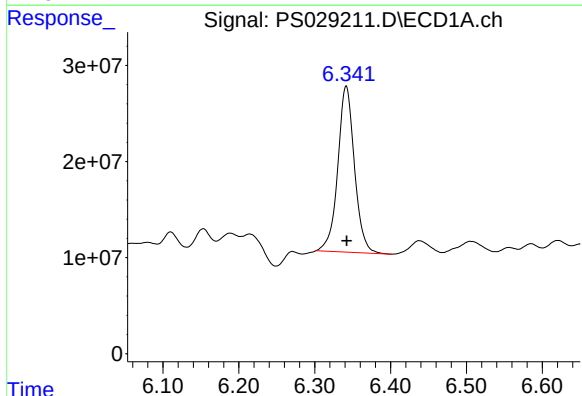
R.T.: 2.600 min
Delta R.T.: -0.004 min
Response: 1267750967
Conc: 385.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS



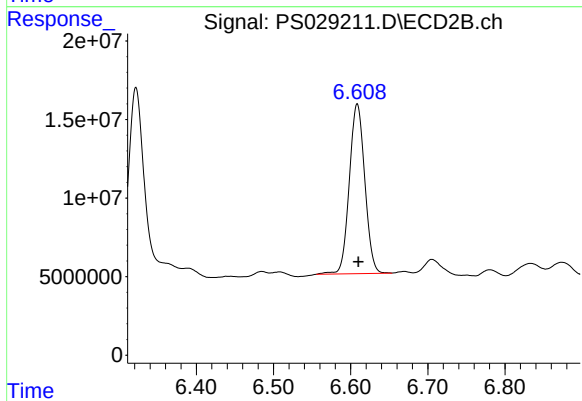
#1 Dalapon

R.T.: 2.653 min
Delta R.T.: 0.000 min
Response: 931361901
Conc: 438.39 ng/ml



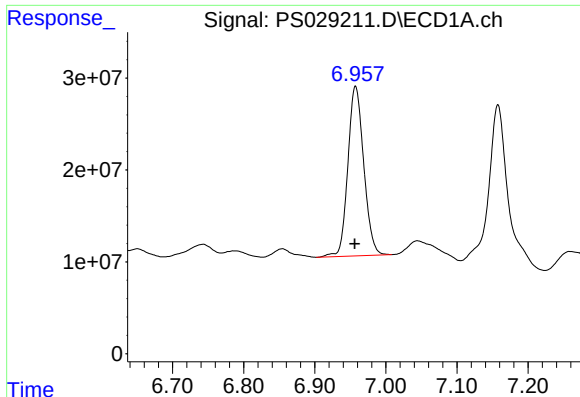
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.342 min
Delta R.T.: 0.000 min
Response: 263600124
Conc: 105.84 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

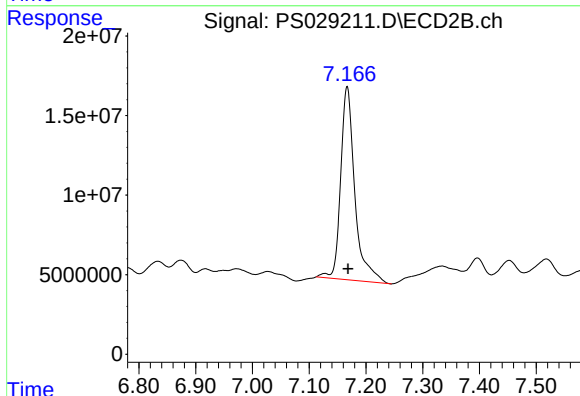
R.T.: 6.609 min
Delta R.T.: -0.002 min
Response: 150187528
Conc: 103.15 ng/ml



#3 4-Nitrophenol

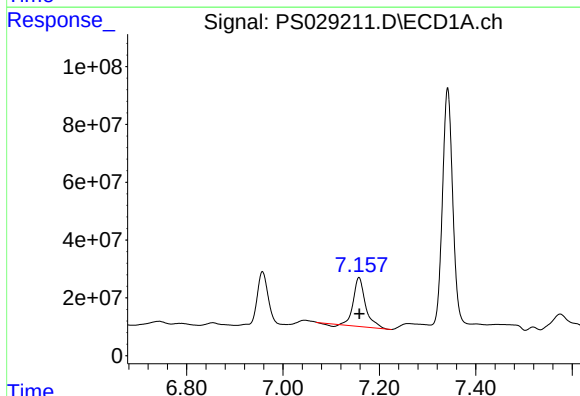
R.T.: 6.957 min
Delta R.T.: 0.001 min
Response: 286407384
Conc: 199.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS



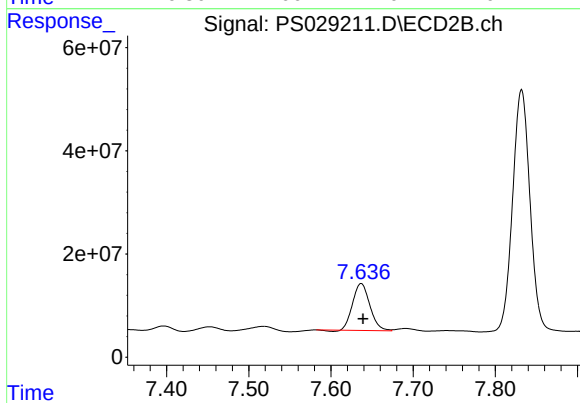
#3 4-Nitrophenol

R.T.: 7.167 min
Delta R.T.: -0.002 min
Response: 210843020
Conc: 246.20 ng/ml



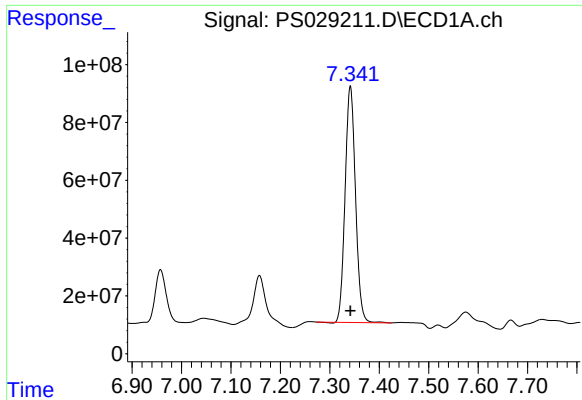
#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: -0.001 min
Response: 292828521
Conc: 175.71 ng/ml



#4 2,4-DCAA

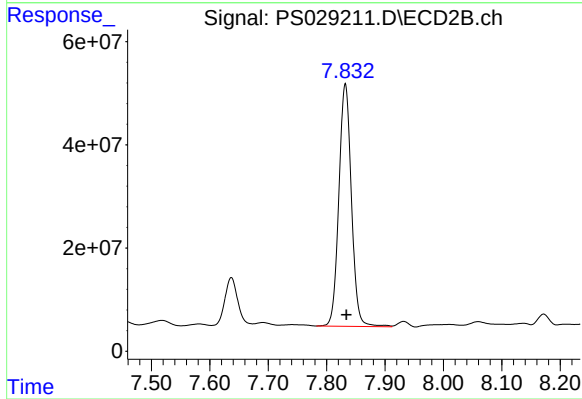
R.T.: 7.637 min
Delta R.T.: -0.002 min
Response: 131348710
Conc: 135.77 ng/ml



#5 DICAMBA

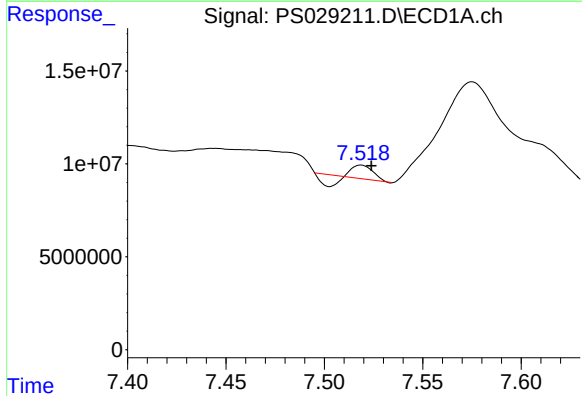
R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 1193185472
Conc: 135.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS



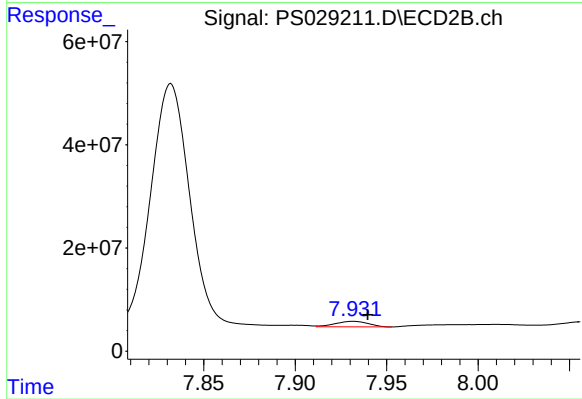
#5 DICAMBA

R.T.: 7.832 min
Delta R.T.: -0.002 min
Response: 700052077
Conc: 132.51 ng/ml



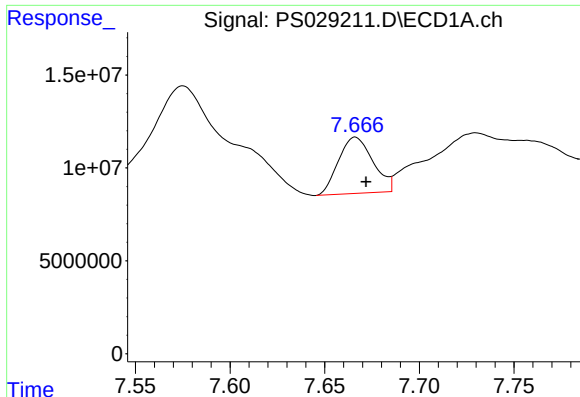
#6 MCP

R.T.: 7.519 min
Delta R.T.: -0.005 min
Response: 2012785
Conc: N.D.



#6 MCP

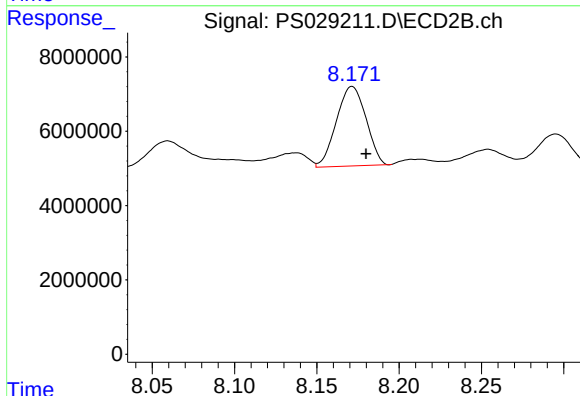
R.T.: 7.932 min
Delta R.T.: -0.008 min
Response: 13185786
Conc: 5.78 ug/ml



#7 MCPA

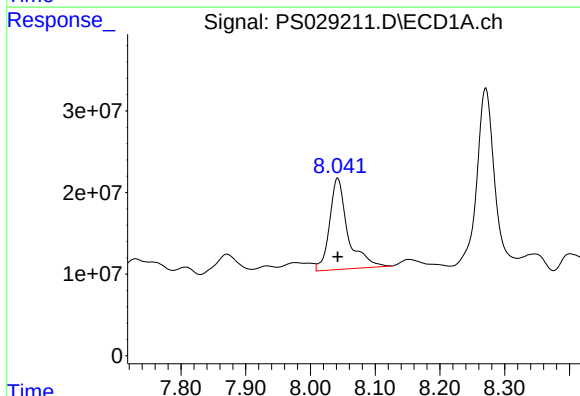
R.T.: 7.667 min
Delta R.T.: -0.005 min
Response: 38508715
Conc: 8.58 ug/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS



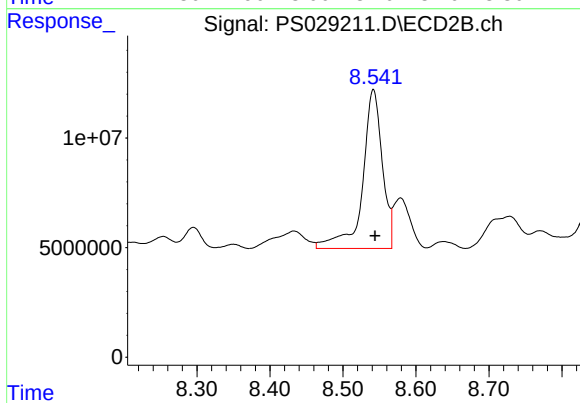
#7 MCPA

R.T.: 8.171 min
Delta R.T.: -0.009 min
Response: 26792404
Conc: 8.50 ug/ml



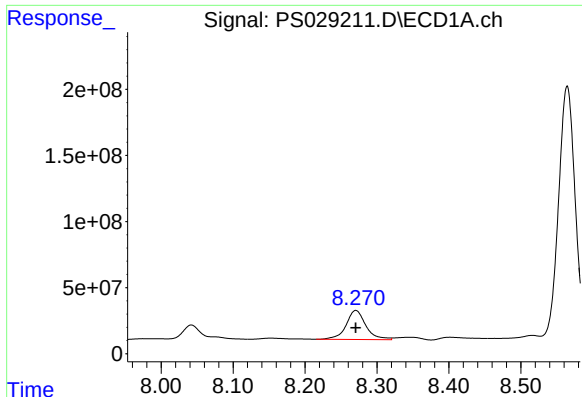
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 219801668
Conc: 98.51 ng/ml



#8 DICHLORPROP

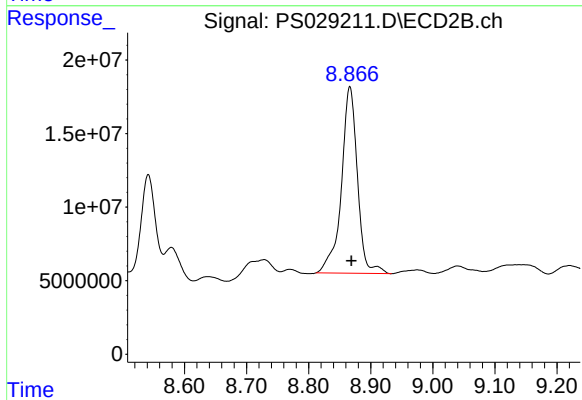
R.T.: 8.542 min
Delta R.T.: -0.002 min
Response: 136648179
Conc: 104.28 ng/ml



#9 2,4-D

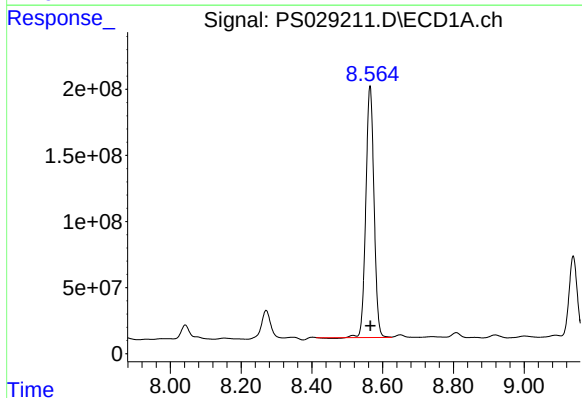
R.T.: 8.271 min
Delta R.T.: 0.000 min
Response: 419789785
Conc: 184.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS



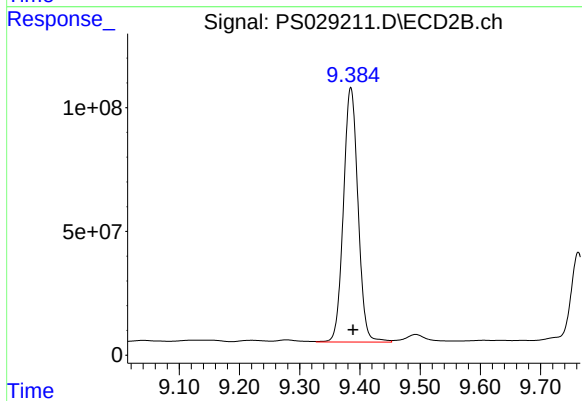
#9 2,4-D

R.T.: 8.866 min
Delta R.T.: -0.002 min
Response: 228153466
Conc: 173.93 ng/ml



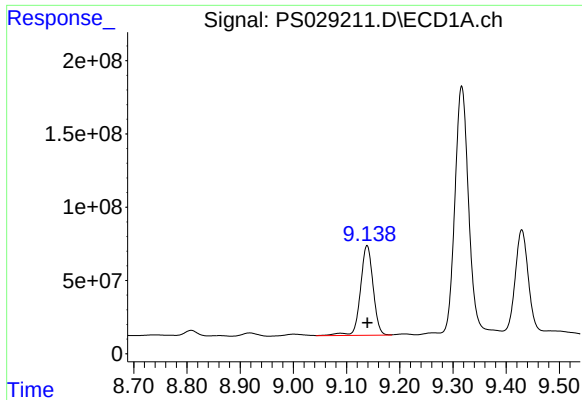
#10 Pentachlorophenol

R.T.: 8.564 min
Delta R.T.: 0.000 min
Response: 3044603984
Conc: 73.13 ng/ml



#10 Pentachlorophenol

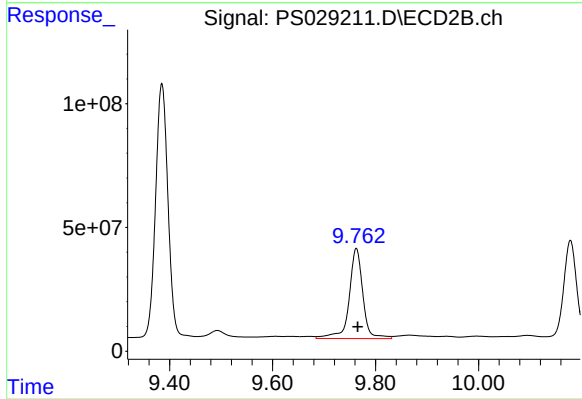
R.T.: 9.385 min
Delta R.T.: -0.004 min
Response: 1726642537
Conc: 72.57 ng/ml



#11 2,4,5-TP (SILVEX)

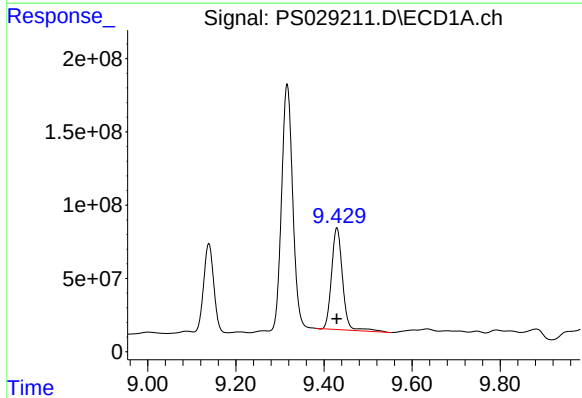
R.T.: 9.139 min
Delta R.T.: 0.000 min
Response: 1011527867
Conc: 62.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS



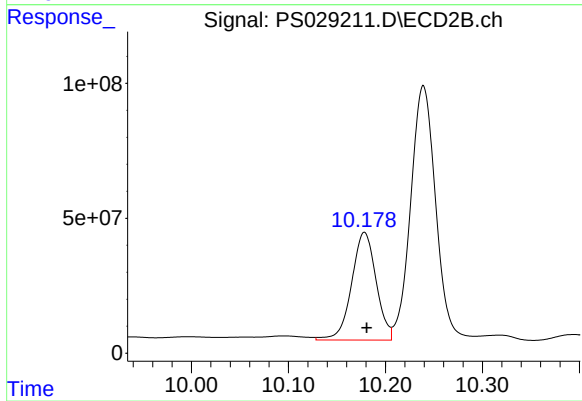
#11 2,4,5-TP (SILVEX)

R.T.: 9.763 min
Delta R.T.: -0.003 min
Response: 674086958
Conc: 71.89 ng/ml



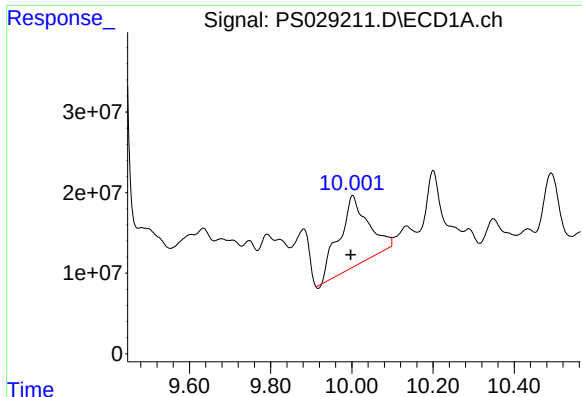
#12 2,4,5-T

R.T.: 9.429 min
Delta R.T.: 0.000 min
Response: 1205913226
Conc: 79.22 ng/ml



#12 2,4,5-T

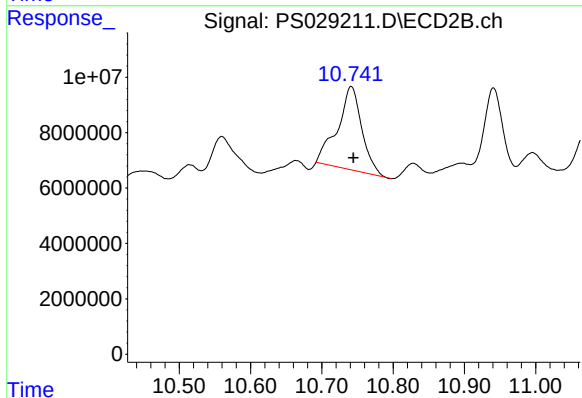
R.T.: 10.178 min
Delta R.T.: -0.002 min
Response: 703633358
Conc: 81.31 ng/ml



#13 2,4-DB

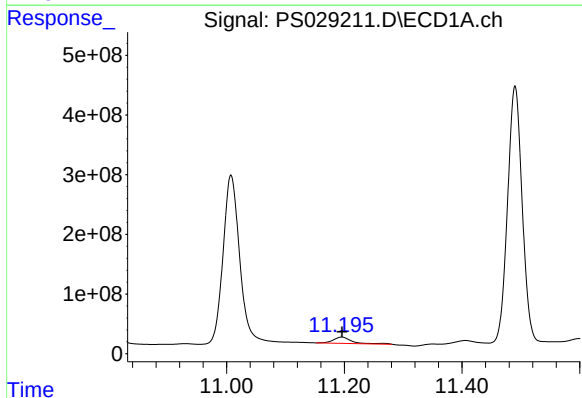
R.T.: 10.002 min
Delta R.T.: 0.005 min
Response: 435657915
Conc: 180.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS



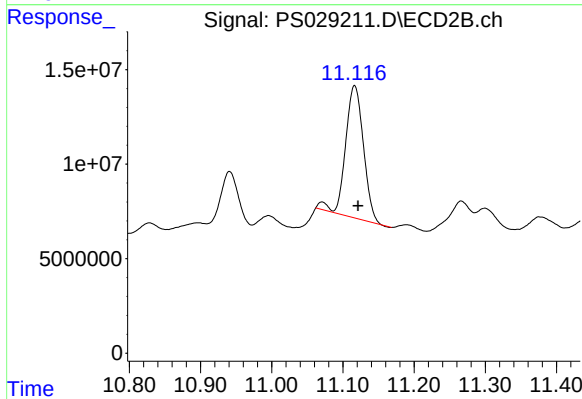
#13 2,4-DB

R.T.: 10.741 min
Delta R.T.: -0.003 min
Response: 71066549
Conc: 83.11 ng/ml



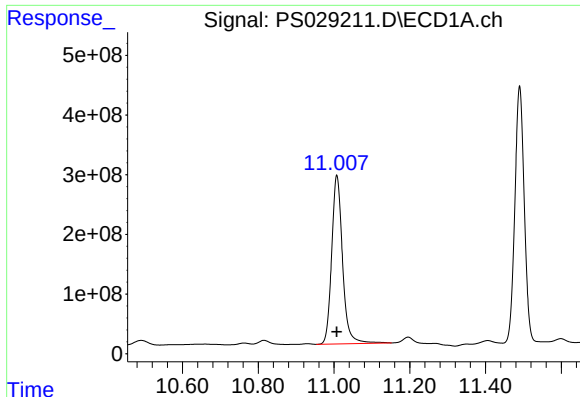
#14 DINOSEB

R.T.: 11.195 min
Delta R.T.: -0.001 min
Response: 226527118
Conc: 17.83 ng/ml



#14 DINOSEB

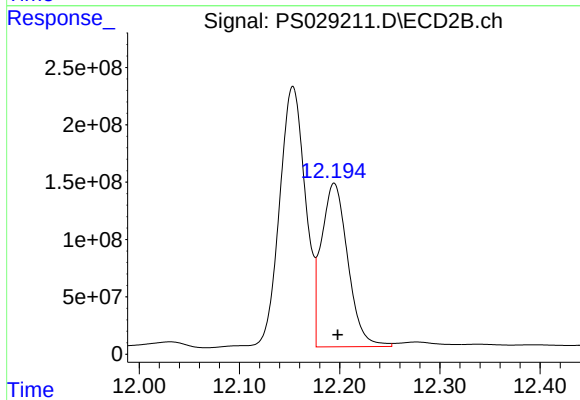
R.T.: 11.116 min
Delta R.T.: -0.005 min
Response: 122994005
Conc: 18.99 ng/ml



#15 Picloram

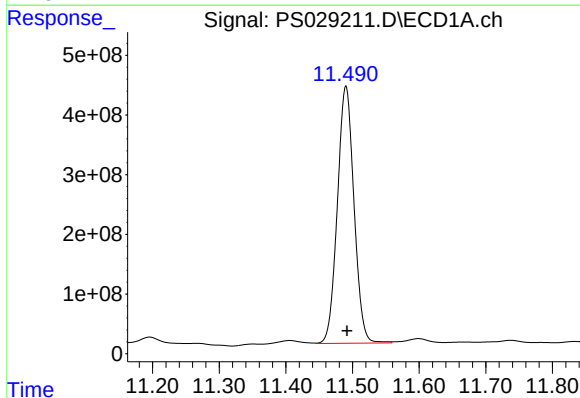
R.T.: 11.008 min
Delta R.T.: 0.000 min
Response: 5616812155
Conc: 214.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MS



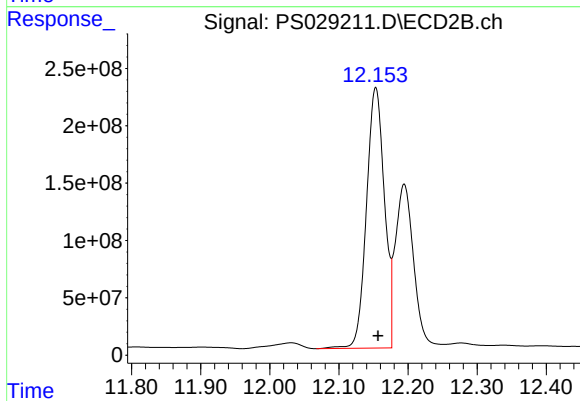
#15 Picloram

R.T.: 12.194 min
Delta R.T.: -0.004 min
Response: 2604955700
Conc: 207.73 ng/ml



#16 DCPA

R.T.: 11.490 min
Delta R.T.: -0.002 min
Response: 7462656307
Conc: 285.33 ng/ml



#16 DCPA

R.T.: 12.153 min
Delta R.T.: -0.003 min
Response: 4115223251
Conc: 331.28 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029212.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 18:45
 Operator : AR\AJ
 Sample : Q1372-01MSD
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 AU-05-021425MSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:33:45 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.157	7.636	283.9E6	124.2E6	170.375	128.404
Target Compounds							
1) T	Dalapon	2.600	2.653	1252.2E6	917.8E6	380.889	432.017
2) T	3,5-DICHL...	6.341	6.608	249.9E6	142.2E6	100.345	97.634
3) T	4-Nitroph...	6.957	7.167	279.3E6	206.5E6	194.795	241.178
5) T	DICAMBA	7.340	7.831	1132.7E6	665.8E6	129.085	126.021
6) T	MCPD	7.518	7.931	2784534	12179287	<MDL	5.338 #
7) T	MCPA	7.665	8.171	34277862	29069553	7.636	9.223
8) T	DICHLORPROP	8.041	8.541	209.3E6	133.1E6	93.798	101.577
9) T	2,4-D	8.270	8.866	394.6E6	218.0E6	173.584	166.170
10) T	Pentachlo...	8.563	9.384	3038.6E6	1739.1E6	72.984	73.097
11) T	2,4,5-TP ...	9.137	9.762	949.7E6	667.4E6	58.899	71.175
12) T	2,4,5-T	9.428	10.177	1159.8E6	681.1E6	76.185	78.707
13) T	2,4-DB	10.000	10.740	443.4E6	72032034	183.465	84.238 #
14) T	DINOSEB	11.194	11.115	221.4E6	126.6E6	17.423	19.549
15) T	Picloram	11.006	12.193	5437.2E6	2559.9E6	208.059	204.135
16) T	DCPA	11.488	12.152	7372.7E6	4119.9E6	281.888	331.658

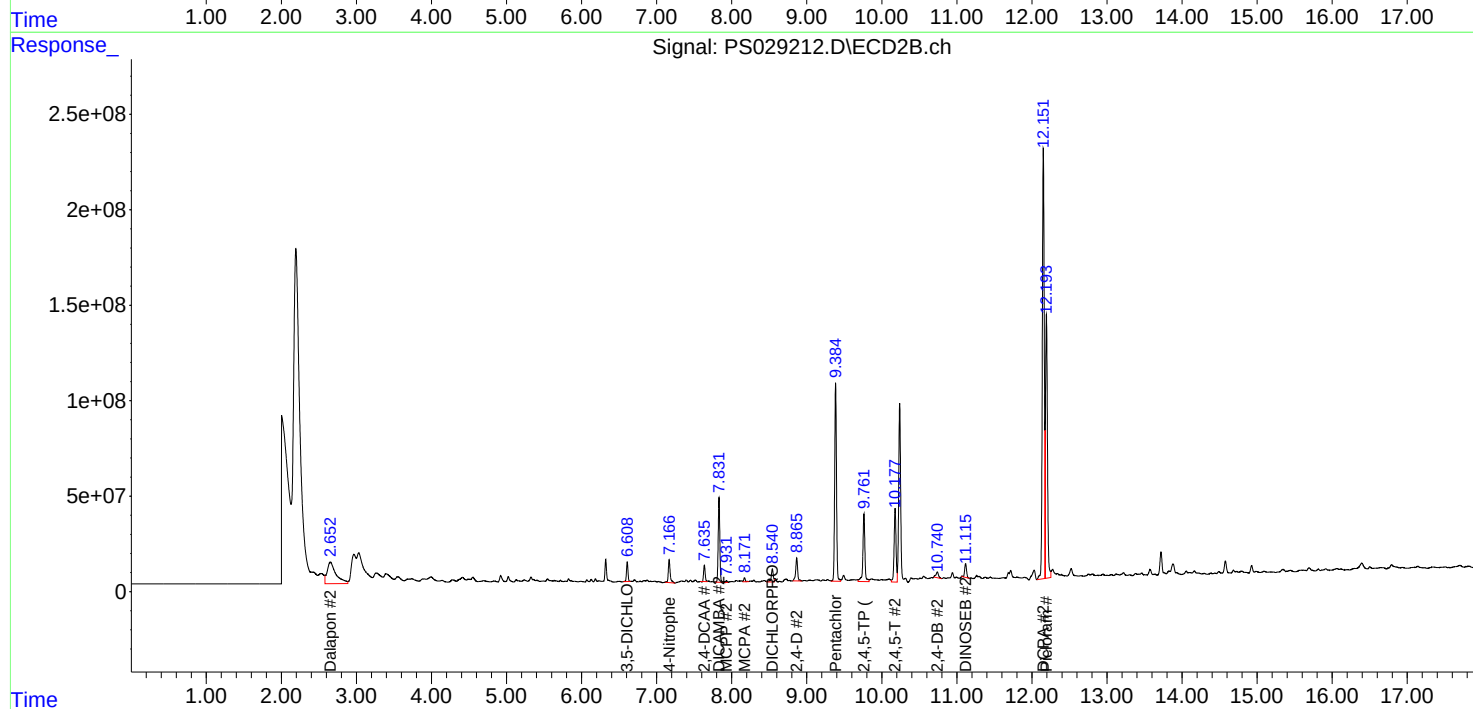
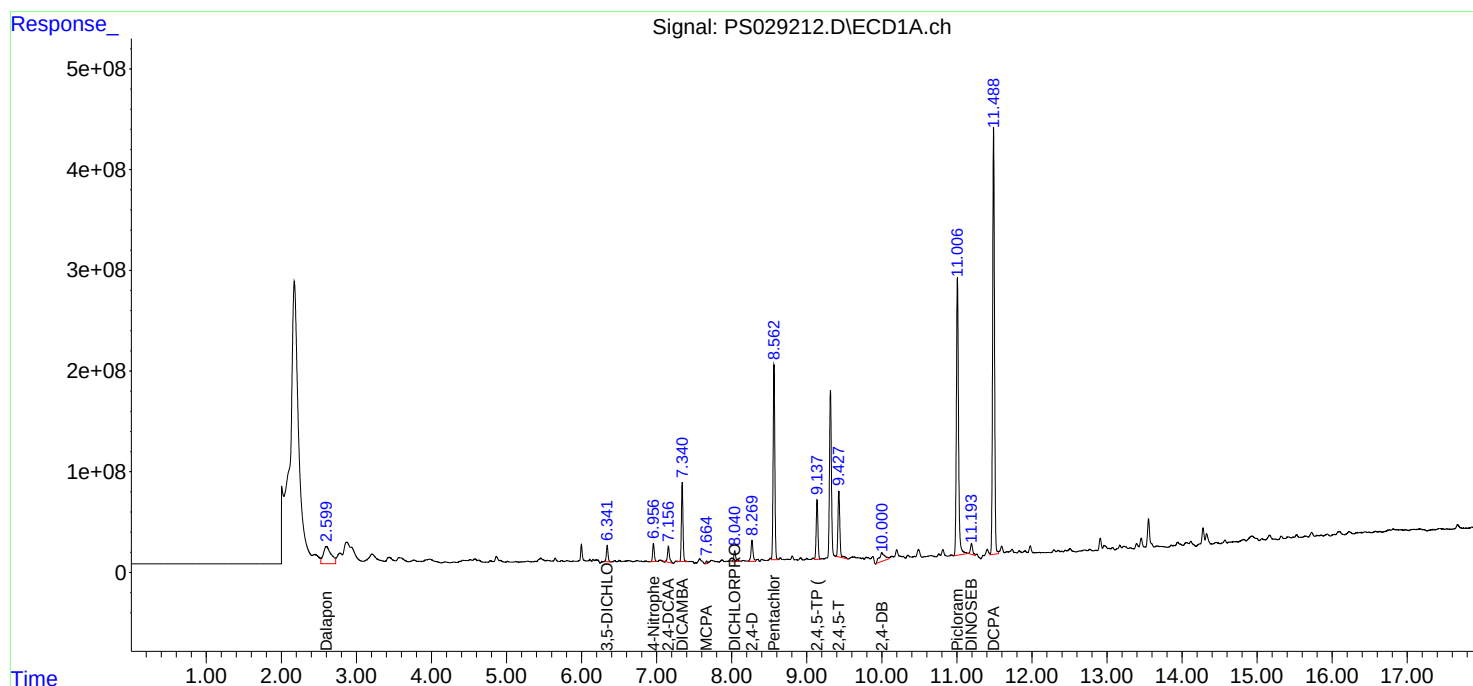
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

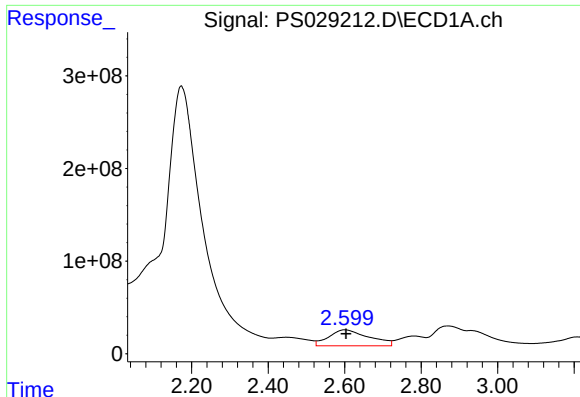
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029212.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 18:45
Operator : AR\AJ
Sample : Q1372-01MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:33:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

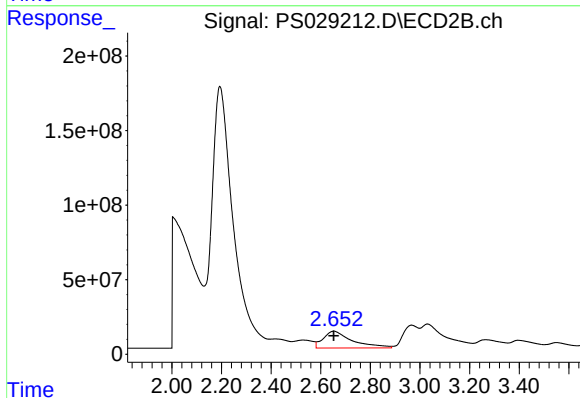




#1 Dalapon

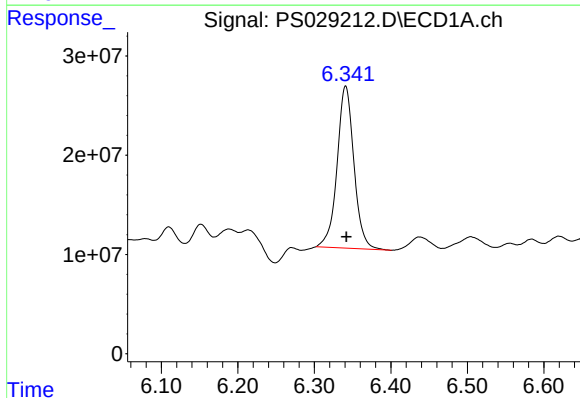
R.T.: 2.600 min
Delta R.T.: -0.004 min
Response: 1252170480
Conc: 380.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD



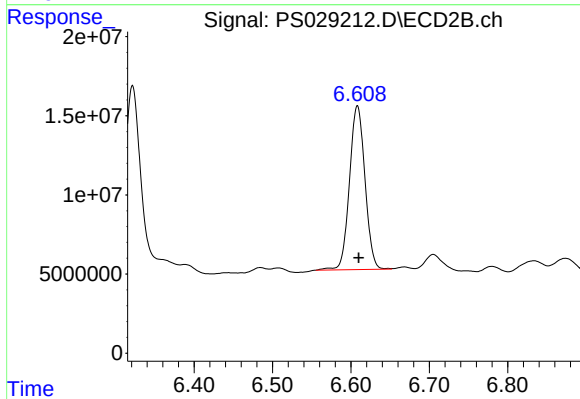
#1 Dalapon

R.T.: 2.653 min
Delta R.T.: 0.000 min
Response: 917825761
Conc: 432.02 ng/ml



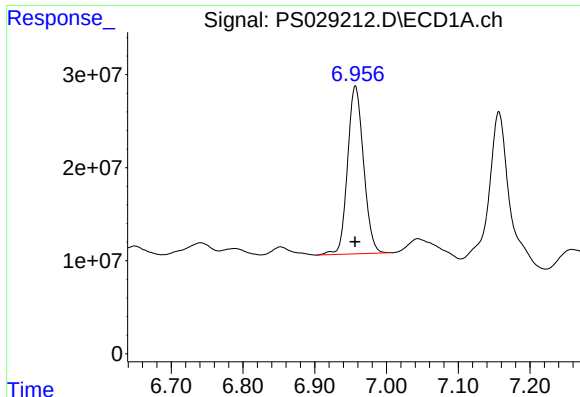
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.341 min
Delta R.T.: -0.001 min
Response: 249903374
Conc: 100.34 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

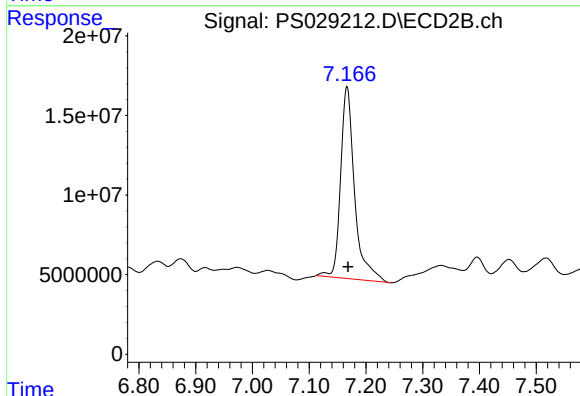
R.T.: 6.608 min
Delta R.T.: -0.002 min
Response: 142151801
Conc: 97.63 ng/ml



#3 4-Nitrophenol

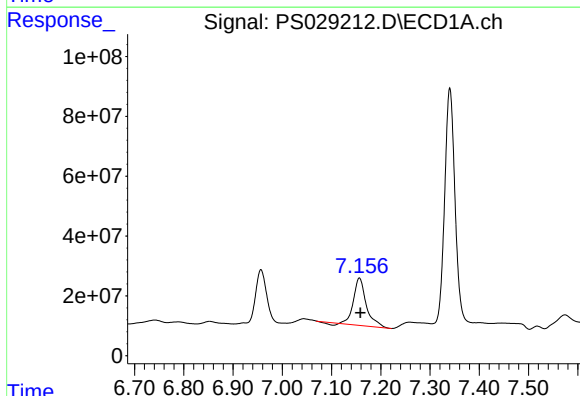
R.T.: 6.957 min
Delta R.T.: 0.000 min
Response: 279308571
Conc: 194.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD



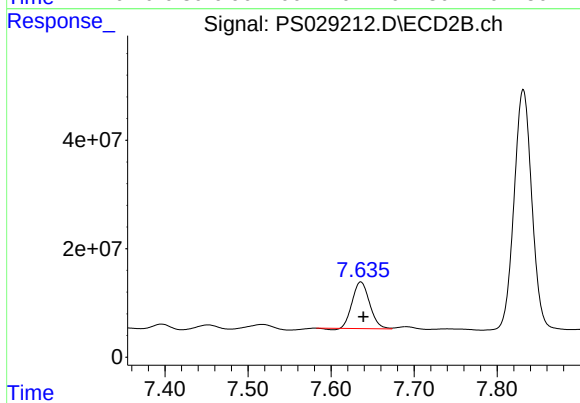
#3 4-Nitrophenol

R.T.: 7.167 min
Delta R.T.: -0.002 min
Response: 206539534
Conc: 241.18 ng/ml



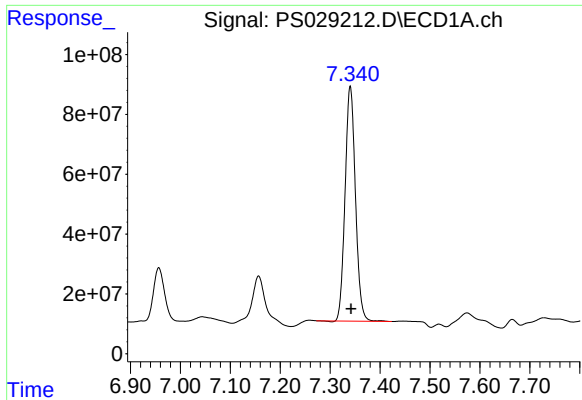
#4 2,4-DCAA

R.T.: 7.157 min
Delta R.T.: -0.002 min
Response: 283939789
Conc: 170.38 ng/ml



#4 2,4-DCAA

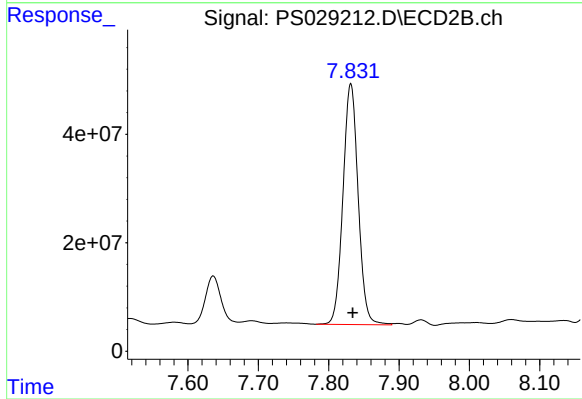
R.T.: 7.636 min
Delta R.T.: -0.003 min
Response: 124227314
Conc: 128.40 ng/ml



#5 DICAMBA

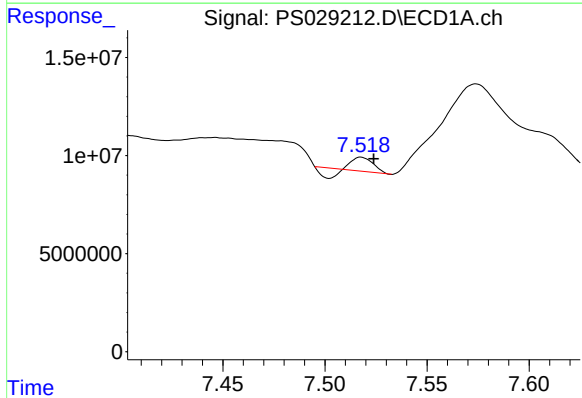
R.T.: 7.340 min
Delta R.T.: -0.002 min
Response: 1132713014
Conc: 129.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD



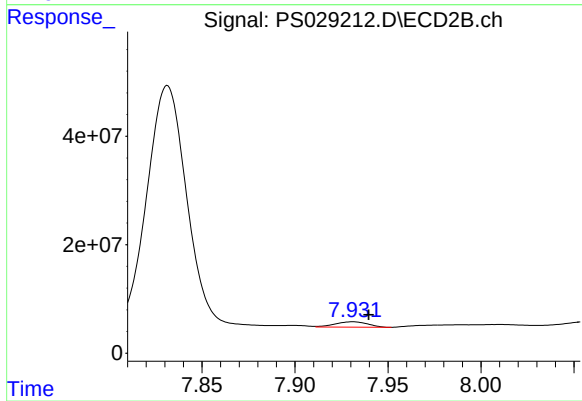
#5 DICAMBA

R.T.: 7.831 min
Delta R.T.: -0.003 min
Response: 665768075
Conc: 126.02 ng/ml



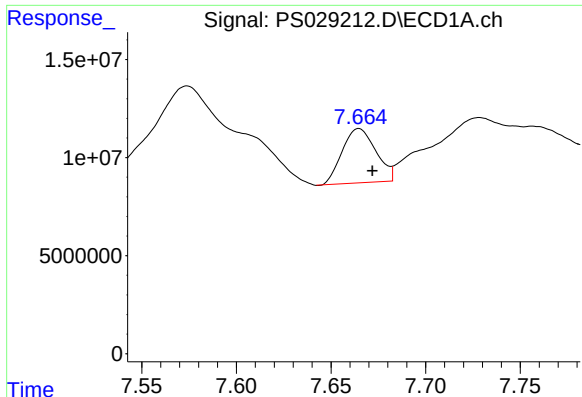
#6 MCP

R.T.: 7.518 min
Delta R.T.: -0.006 min
Response: 2784534
Conc: N.D.



#6 MCP

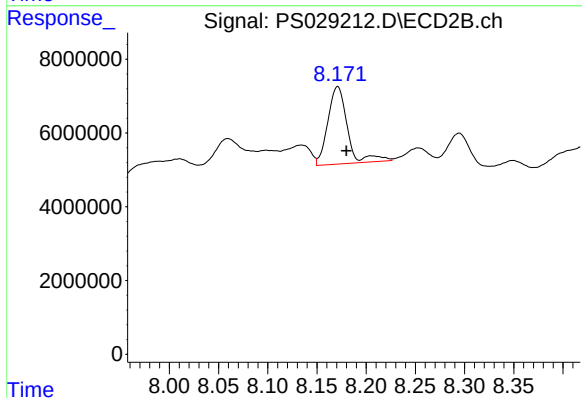
R.T.: 7.931 min
Delta R.T.: -0.009 min
Response: 12179287
Conc: 5.34 ug/ml



#7 MCPA

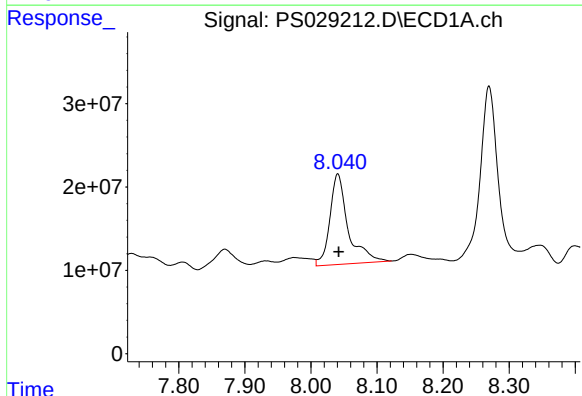
R.T.: 7.665 min
Delta R.T.: -0.007 min
Response: 34277862
Conc: 7.64 ug/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD



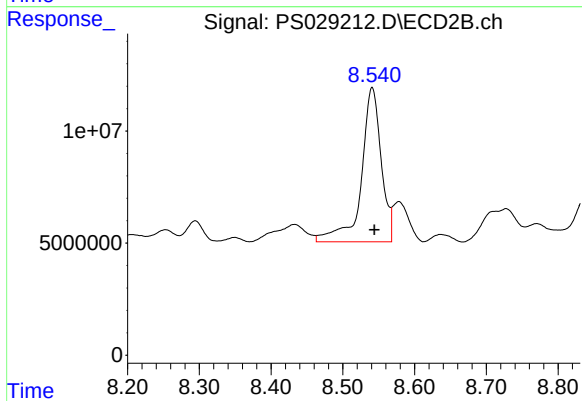
#7 MCPA

R.T.: 8.171 min
Delta R.T.: -0.009 min
Response: 29069553
Conc: 9.22 ug/ml



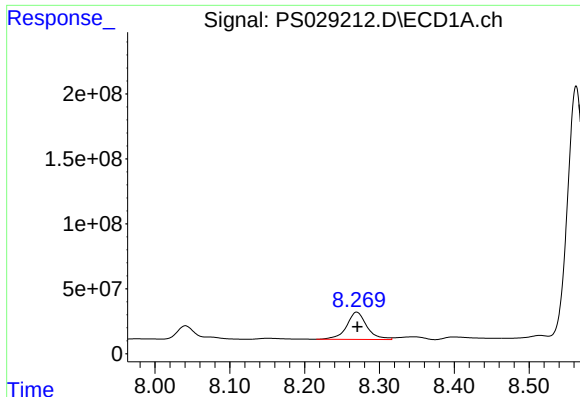
#8 DICHLORPROP

R.T.: 8.041 min
Delta R.T.: -0.001 min
Response: 209282244
Conc: 93.80 ng/ml



#8 DICHLORPROP

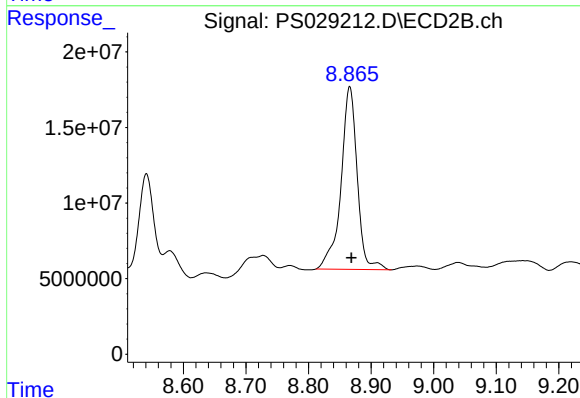
R.T.: 8.541 min
Delta R.T.: -0.003 min
Response: 133109211
Conc: 101.58 ng/ml



#9 2,4-D

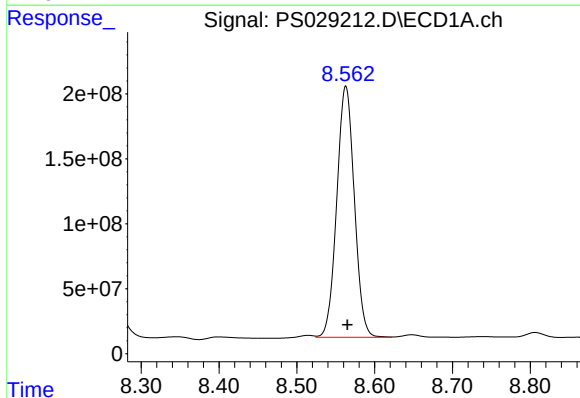
R.T.: 8.270 min
Delta R.T.: 0.000 min
Response: 394568089
Conc: 173.58 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD



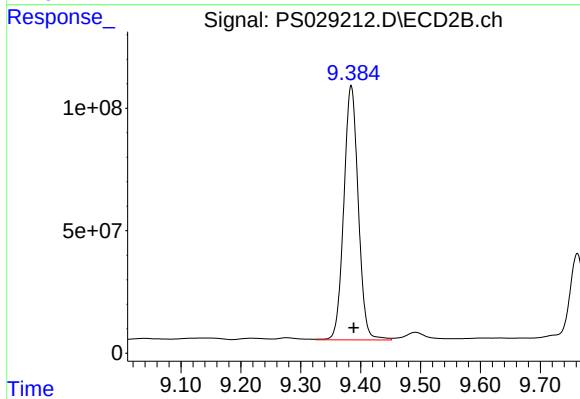
#9 2,4-D

R.T.: 8.866 min
Delta R.T.: -0.003 min
Response: 217979368
Conc: 166.17 ng/ml



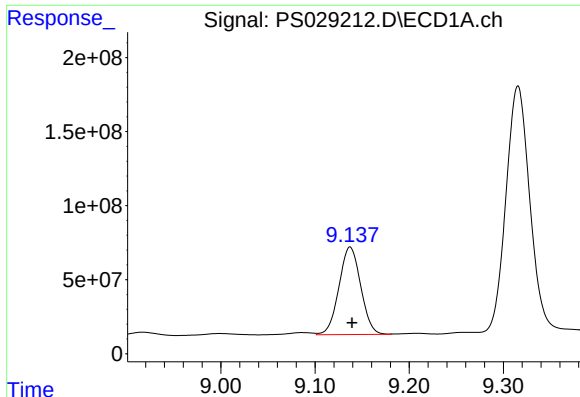
#10 Pentachlorophenol

R.T.: 8.563 min
Delta R.T.: -0.002 min
Response: 3038562100
Conc: 72.98 ng/ml



#10 Pentachlorophenol

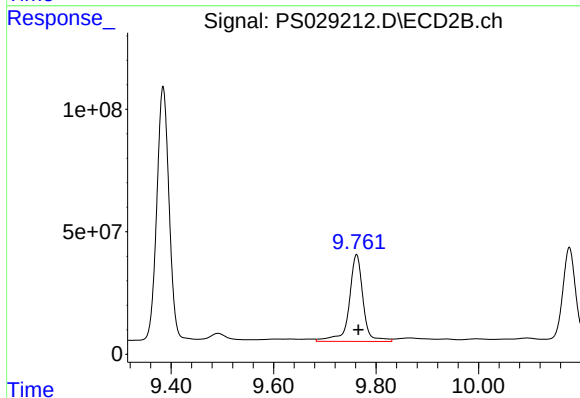
R.T.: 9.384 min
Delta R.T.: -0.004 min
Response: 1739091787
Conc: 73.10 ng/ml



#11 2,4,5-TP (SILVEX)

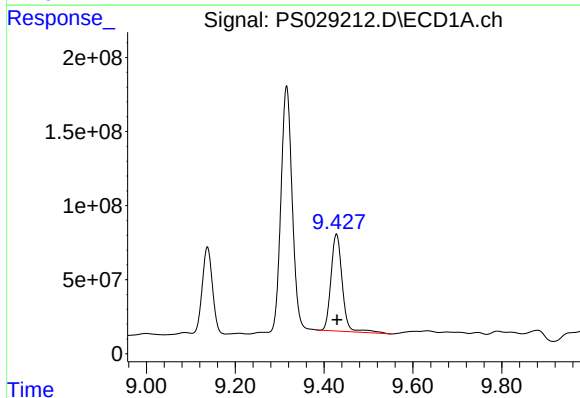
R.T.: 9.137 min
Delta R.T.: -0.002 min
Response: 949739950
Conc: 58.90 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD



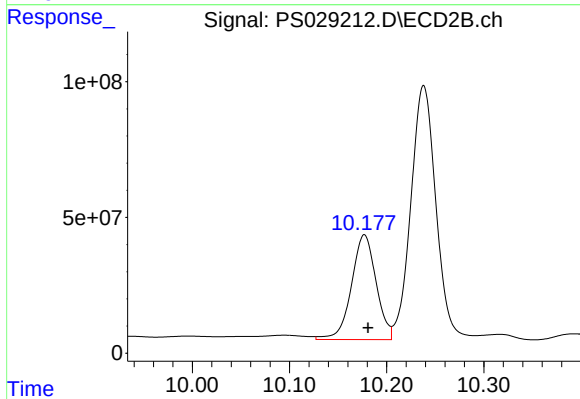
#11 2,4,5-TP (SILVEX)

R.T.: 9.762 min
Delta R.T.: -0.004 min
Response: 667372372
Conc: 71.18 ng/ml



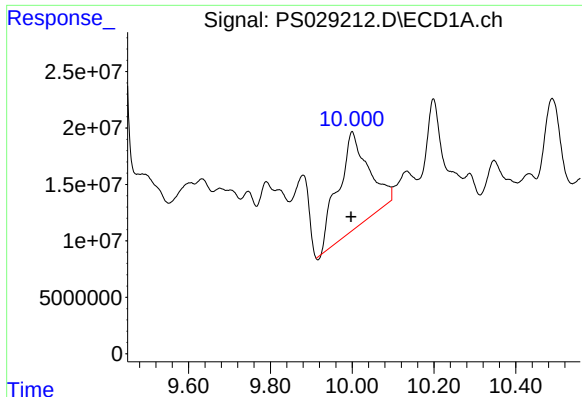
#12 2,4,5-T

R.T.: 9.428 min
Delta R.T.: -0.001 min
Response: 1159754674
Conc: 76.19 ng/ml



#12 2,4,5-T

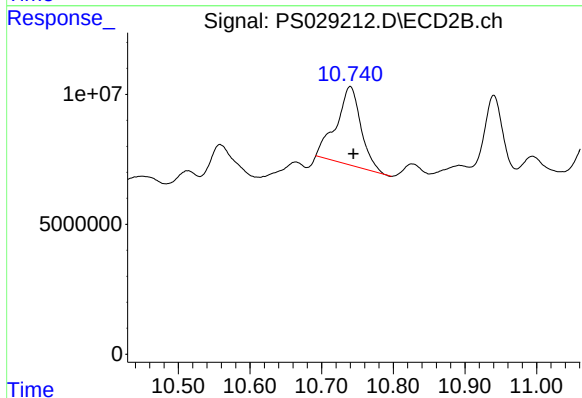
R.T.: 10.177 min
Delta R.T.: -0.004 min
Response: 681089506
Conc: 78.71 ng/ml



#13 2,4-DB

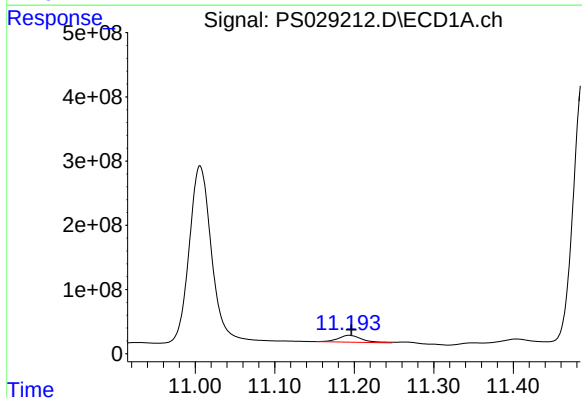
R.T.: 10.000 min
Delta R.T.: 0.002 min
Response: 443449493
Conc: 183.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD



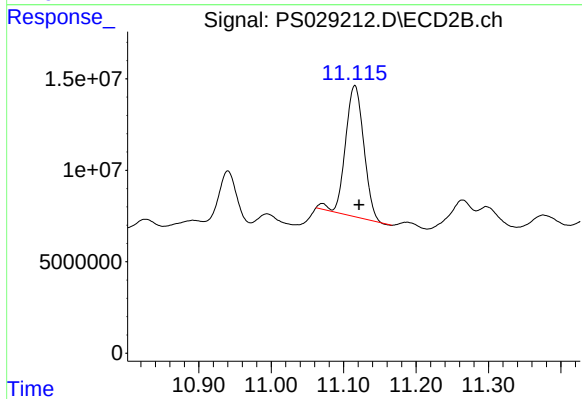
#13 2,4-DB

R.T.: 10.740 min
Delta R.T.: -0.005 min
Response: 72032034
Conc: 84.24 ng/ml



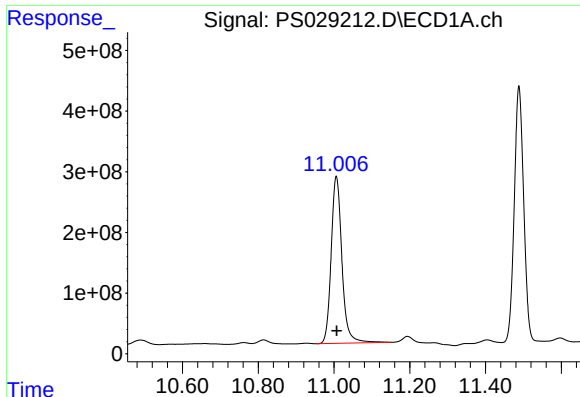
#14 DINOSEB

R.T.: 11.194 min
Delta R.T.: -0.003 min
Response: 221378251
Conc: 17.42 ng/ml



#14 DINOSEB

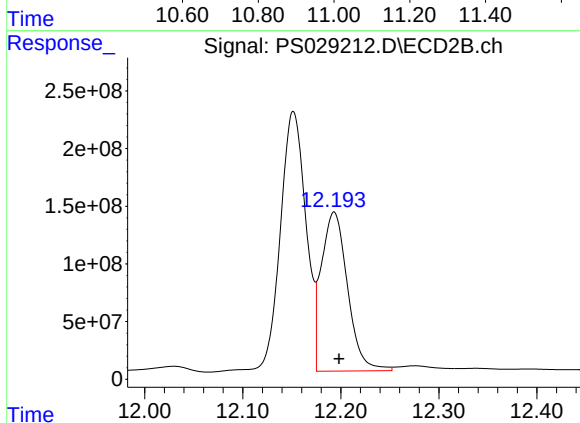
R.T.: 11.115 min
Delta R.T.: -0.006 min
Response: 126595127
Conc: 19.55 ng/ml



#15 Picloram

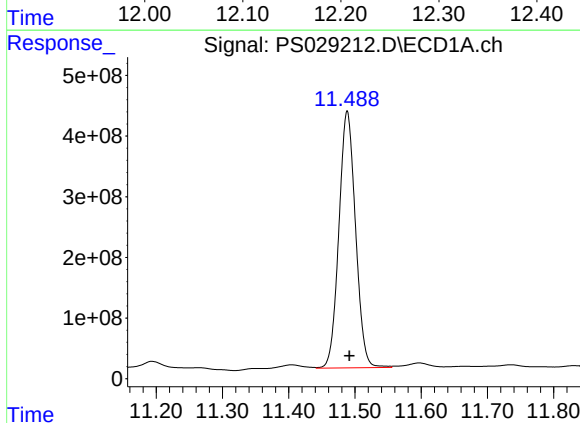
R.T.: 11.006 min
Delta R.T.: -0.001 min
Response: 5437243633
Conc: 208.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
AU-05-021425MSD



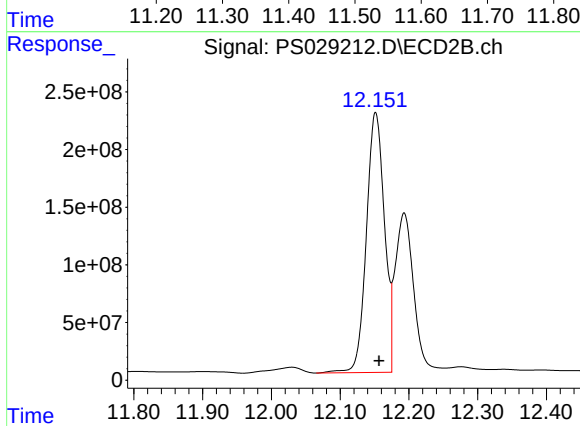
#15 Picloram

R.T.: 12.193 min
Delta R.T.: -0.005 min
Response: 2559895930
Conc: 204.13 ng/ml



#16 DCPA

R.T.: 11.488 min
Delta R.T.: -0.003 min
Response: 7372706844
Conc: 281.89 ng/ml



#16 DCPA

R.T.: 12.152 min
Delta R.T.: -0.005 min
Response: 4119896400
Conc: 331.66 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029213.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 19:09
 Operator : AR\AJ
 Sample : Q1382-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-PCS-TC-01-021725

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:34:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.156	7.636	715.6E6	349.4E6	429.388	361.191
Target Compounds							
1) T	Dalapon	2.574f	2.613f	732.8E6	478.6E6	222.903	225.276
2) T	3,5-DICHL...	6.325	6.612	37666165	20891302	15.124	14.349
3) T	4-Nitroph...	6.961	7.176	14167265	37473962	9.881	43.759 #
5) T	DICAMBA	7.363	7.875f	7215645	9940486	<MDL	1.882 #
6) T	MCPD	7.527	7.960	11353431	33575813	3.602	14.717 #
7) T	MCPA	7.666	8.173	21334451	13526557	4.753	4.292
8) T	DICHLORPROP	8.041	8.580f	15228513	66681901	6.825	50.885 #
9) T	2,4-D	8.304f	8.848	186.2E6	56869532	81.911	43.353 #
10) T	Pentachlo...	8.561	9.390	64361758	18425355	1.546	<MDL #
11) T	2,4,5-TP ...	9.104f	9.722f	108.0E6	170.0E6	6.696	18.136 #
12) T	2,4,5-T	9.473f	10.207f	176.9E6	129.3E6	11.619	14.947 #
13) T	2,4-DB	9.976	0.000	130.2E6	0	53.856	N.D. #
14) T	DINOSEB	11.229f	11.129	78100355	29764982	6.147	4.596 #
15) T	Picloram	11.017	12.196	124.2E6	52008677	4.751	4.147
16) T	DCPA	11.459f	12.156	225.3E6	59457677	8.612	4.786 #

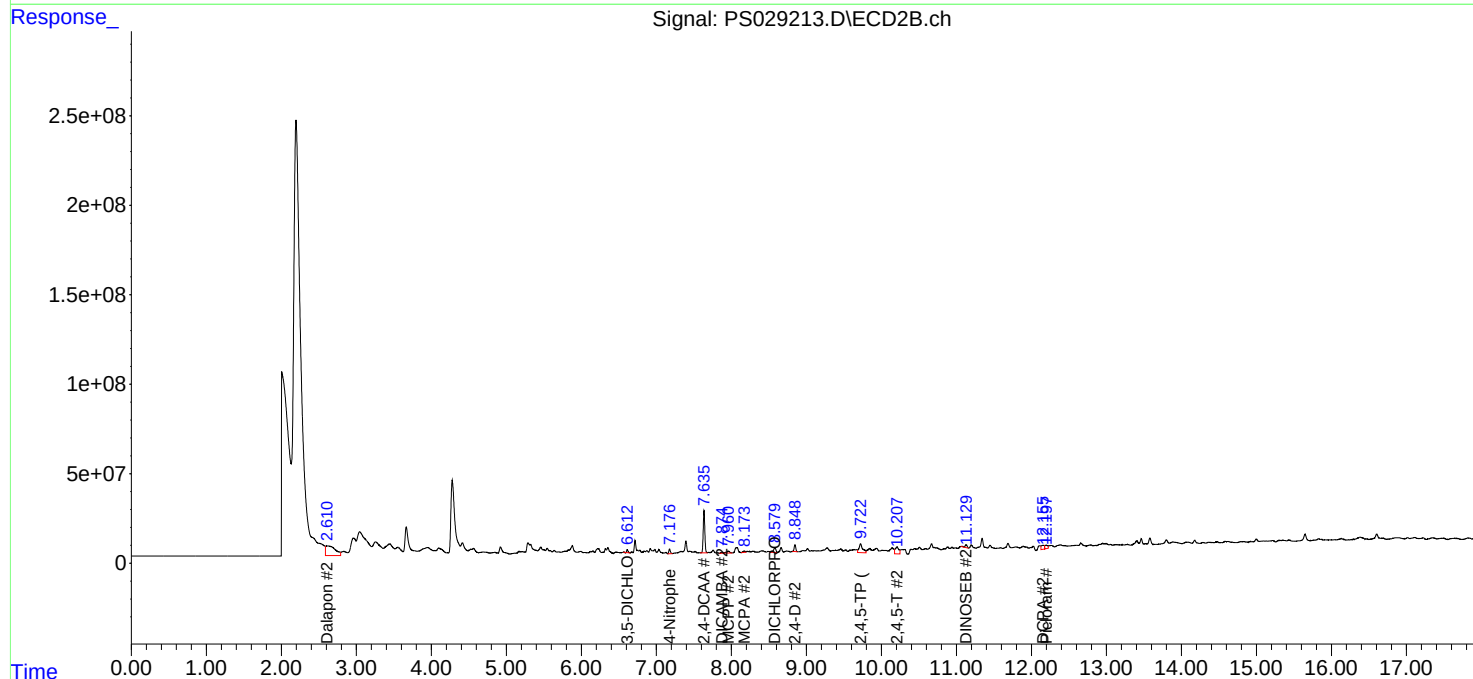
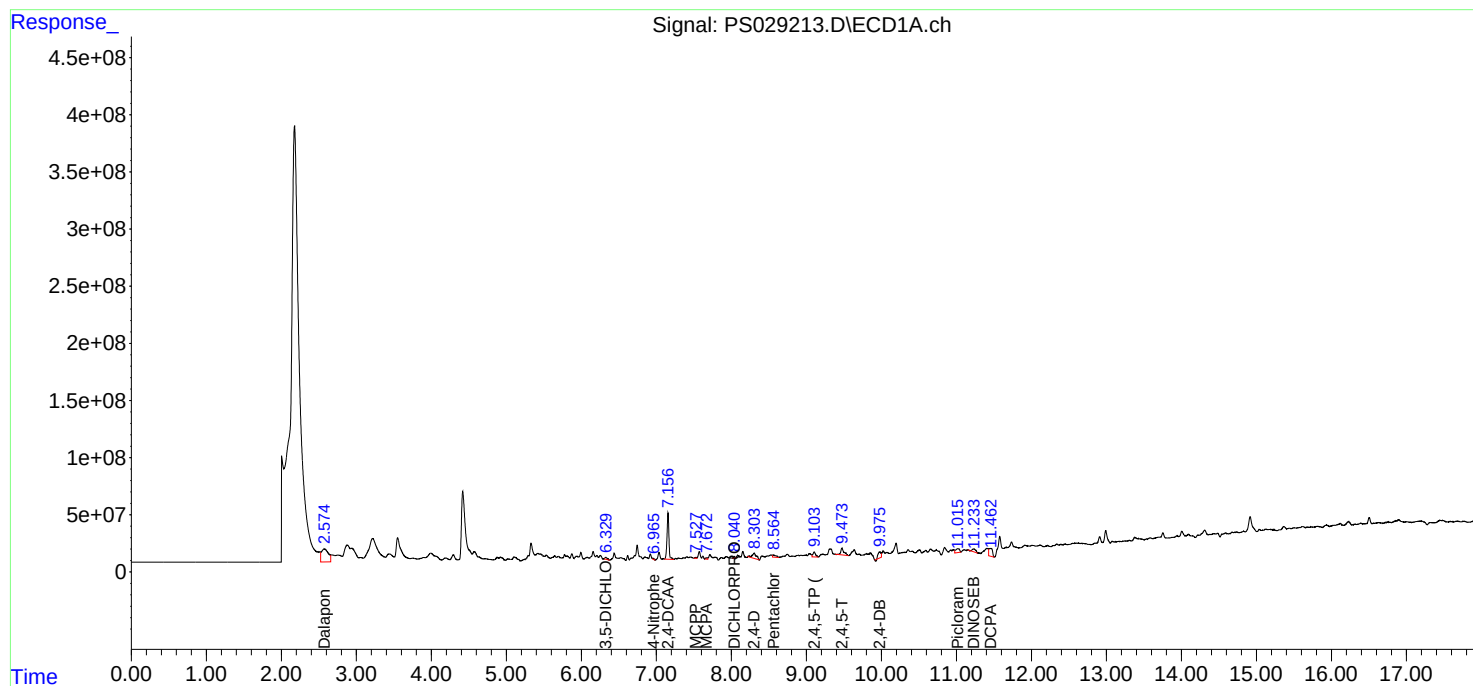
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

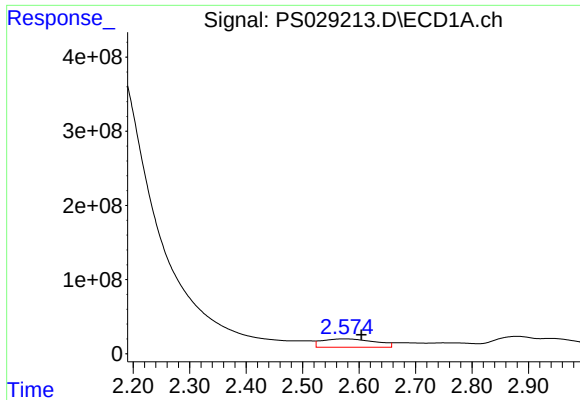
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029213.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 19:09
Operator : AR\AJ
Sample : Q1382-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-01-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:34:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

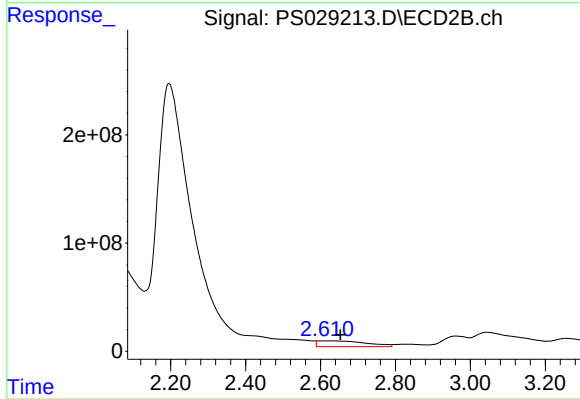




#1 Dalapon

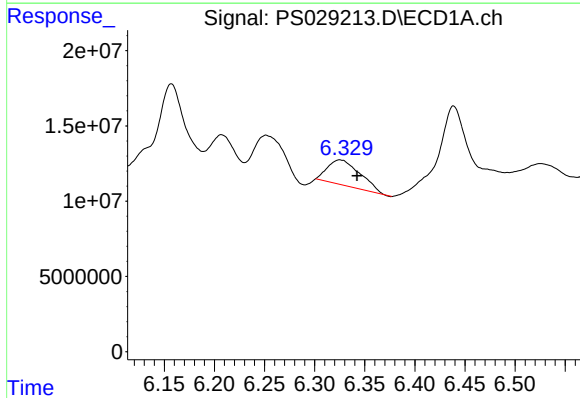
R.T.: 2.574 min
Delta R.T.: -0.030 min
Response: 732790486
Conc: 222.90 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-01-021725



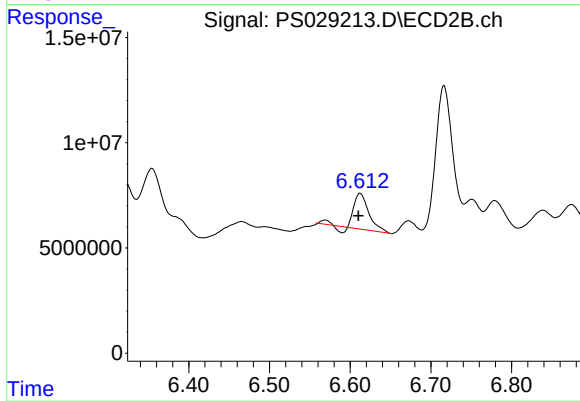
#1 Dalapon

R.T.: 2.613 min
Delta R.T.: -0.041 min
Response: 478602536
Conc: 225.28 ng/ml



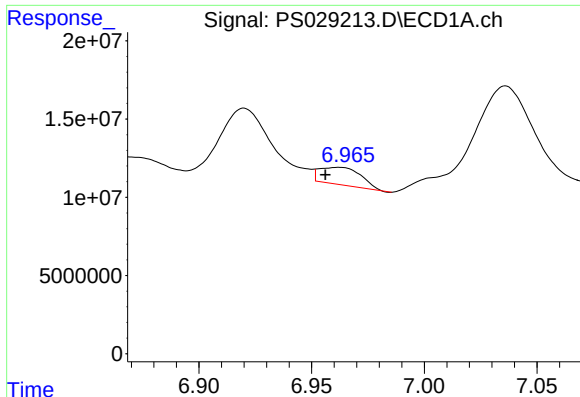
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.325 min
Delta R.T.: -0.017 min
Response: 37666165
Conc: 15.12 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

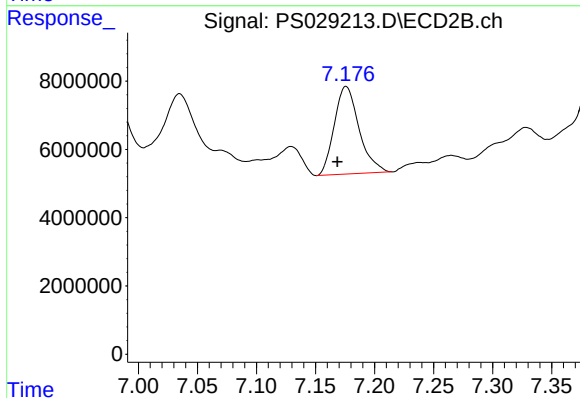
R.T.: 6.612 min
Delta R.T.: 0.002 min
Response: 20891302
Conc: 14.35 ng/ml



#3 4-Nitrophenol

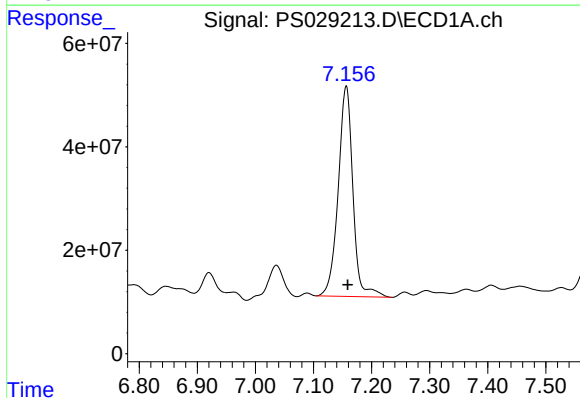
R.T.: 6.961 min
Delta R.T.: 0.005 min
Response: 14167265
Conc: 9.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-01-021725



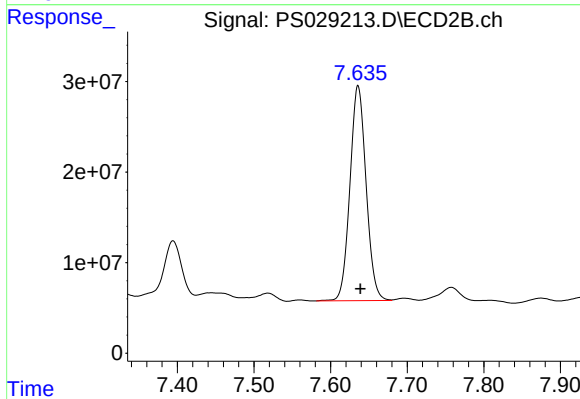
#3 4-Nitrophenol

R.T.: 7.176 min
Delta R.T.: 0.007 min
Response: 37473962
Conc: 43.76 ng/ml



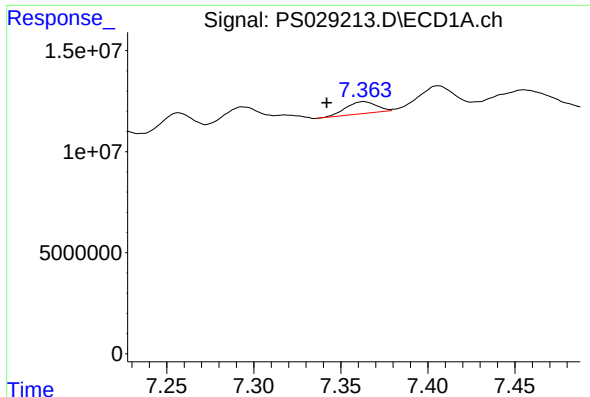
#4 2,4-DCAA

R.T.: 7.156 min
Delta R.T.: -0.003 min
Response: 715599553
Conc: 429.39 ng/ml



#4 2,4-DCAA

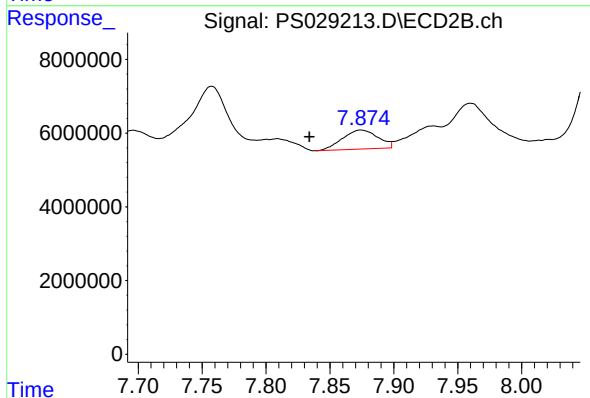
R.T.: 7.636 min
Delta R.T.: -0.003 min
Response: 349440965
Conc: 361.19 ng/ml



#5 DICAMBA

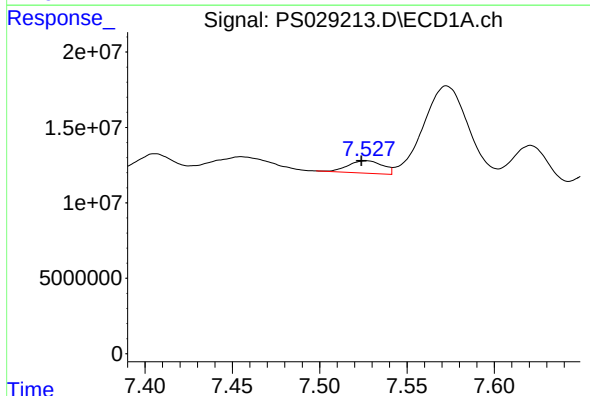
R.T.: 7.363 min
Delta R.T.: 0.021 min
Response: 7215645
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-01-021725



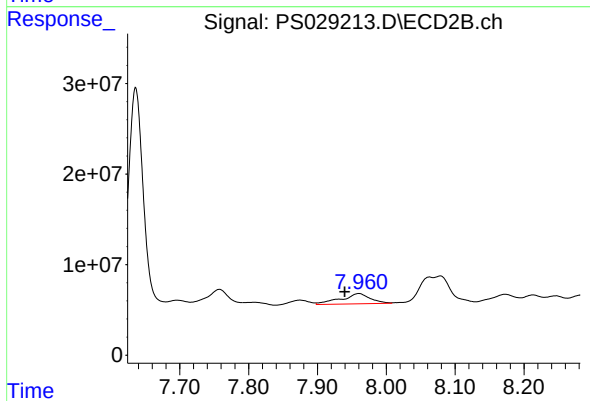
#5 DICAMBA

R.T.: 7.875 min
Delta R.T.: 0.040 min
Response: 9940486
Conc: 1.88 ng/ml



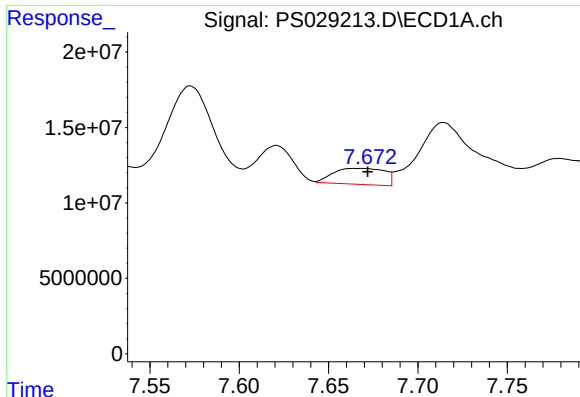
#6 MCP

R.T.: 7.527 min
Delta R.T.: 0.003 min
Response: 11353431
Conc: 3.60 ug/ml



#6 MCP

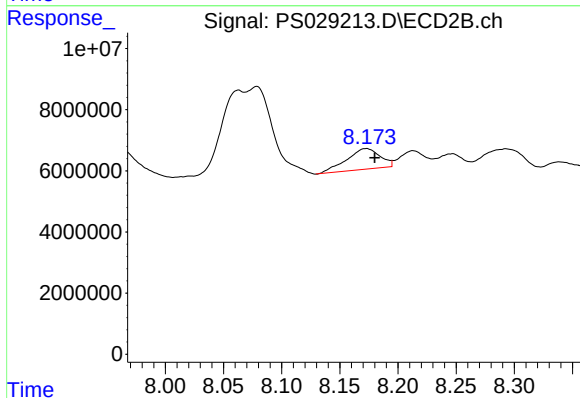
R.T.: 7.960 min
Delta R.T.: 0.020 min
Response: 33575813
Conc: 14.72 ug/ml



#7 MCPA

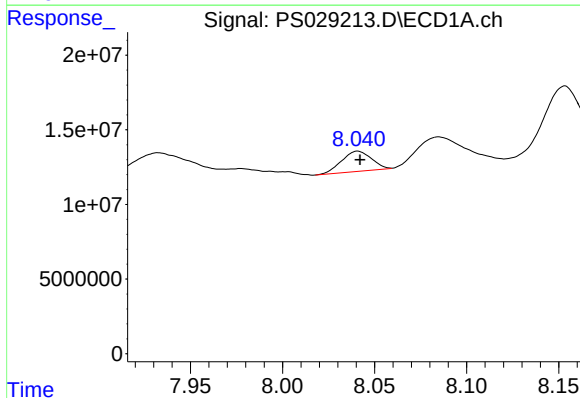
R.T.: 7.666 min
Delta R.T.: -0.005 min
Response: 21334451
Conc: 4.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-01-021725



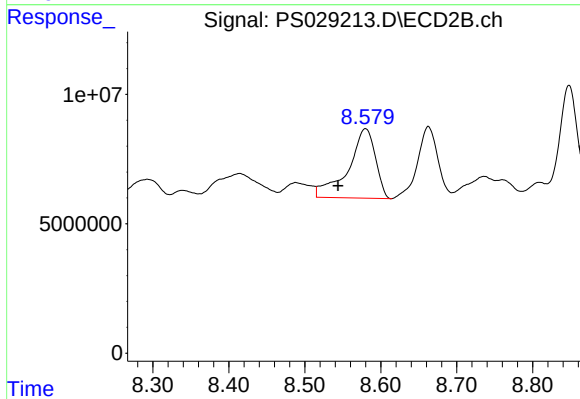
#7 MCPA

R.T.: 8.173 min
Delta R.T.: -0.007 min
Response: 13526557
Conc: 4.29 ug/ml



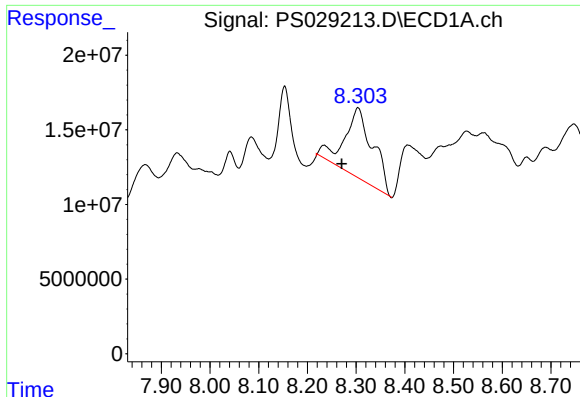
#8 DICHLORPROP

R.T.: 8.041 min
Delta R.T.: 0.000 min
Response: 15228513
Conc: 6.83 ng/ml



#8 DICHLORPROP

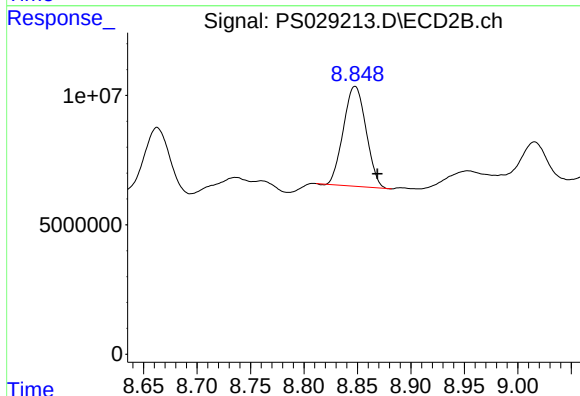
R.T.: 8.580 min
Delta R.T.: 0.036 min
Response: 66681901
Conc: 50.89 ng/ml



#9 2,4-D

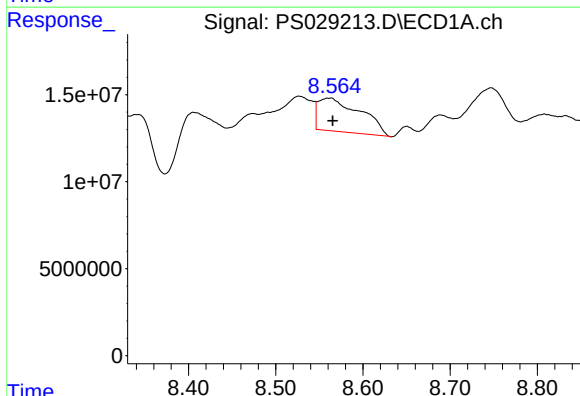
R.T.: 8.304 min
Delta R.T.: 0.034 min
Response: 186188428
Conc: 81.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-01-021725



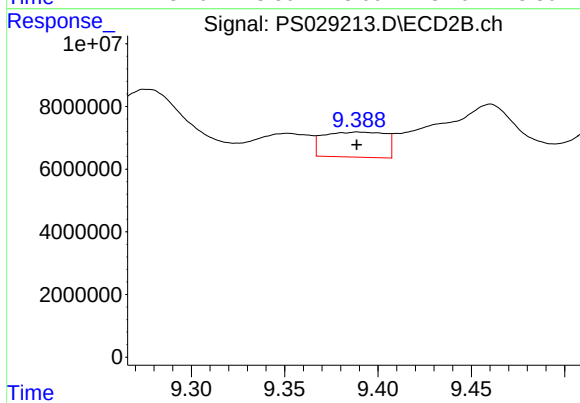
#9 2,4-D

R.T.: 8.848 min
Delta R.T.: -0.021 min
Response: 56869532
Conc: 43.35 ng/ml



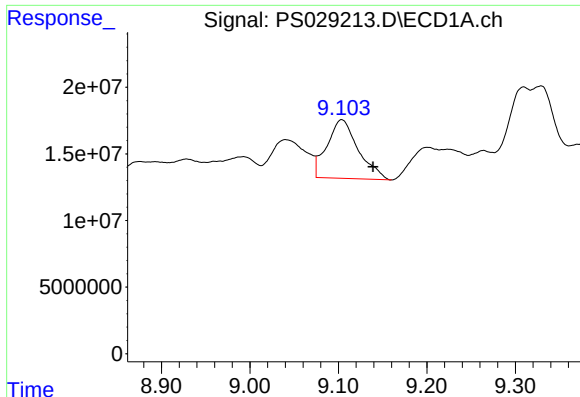
#10 Pentachlorophenol

R.T.: 8.561 min
Delta R.T.: -0.004 min
Response: 64361758
Conc: 1.55 ng/ml



#10 Pentachlorophenol

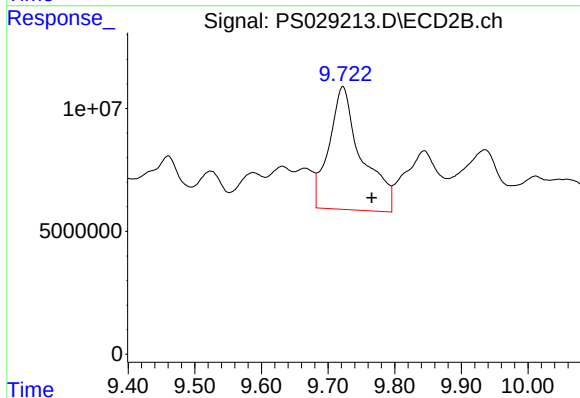
R.T.: 9.390 min
Delta R.T.: 0.001 min
Response: 18425355
Conc: N.D.



#11 2,4,5-TP (SILVEX)

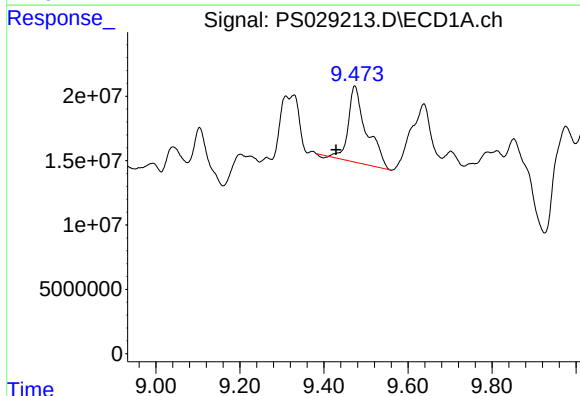
R.T.: 9.104 min
Delta R.T.: -0.035 min
Response: 107966389
Conc: 6.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-01-021725



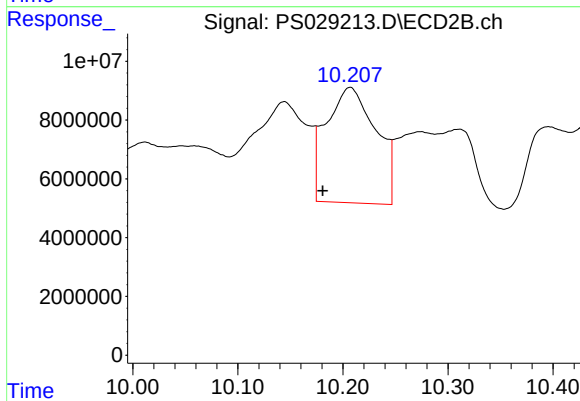
#11 2,4,5-TP (SILVEX)

R.T.: 9.722 min
Delta R.T.: -0.044 min
Response: 170049487
Conc: 18.14 ng/ml



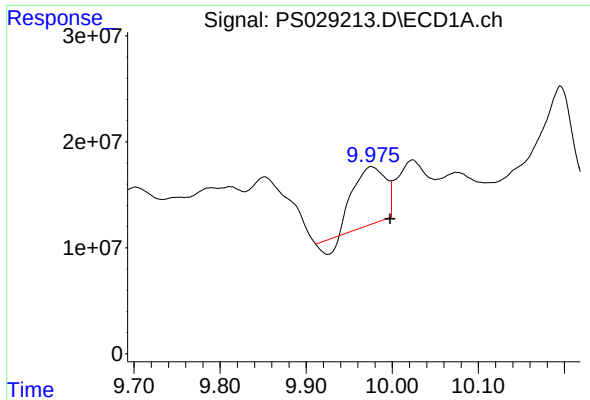
#12 2,4,5-T

R.T.: 9.473 min
Delta R.T.: 0.044 min
Response: 176869432
Conc: 11.62 ng/ml



#12 2,4,5-T

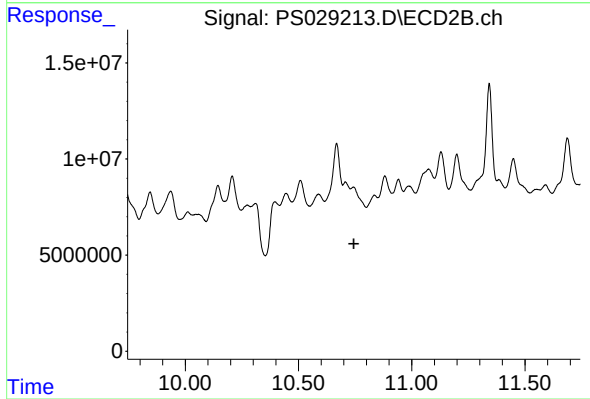
R.T.: 10.207 min
Delta R.T.: 0.026 min
Response: 129340494
Conc: 14.95 ng/ml



#13 2,4-DB

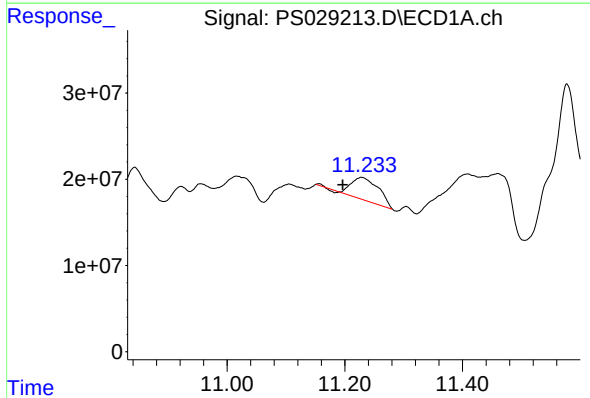
R.T.: 9.976 min
Delta R.T.: -0.022 min
Response: 130174693
Conc: 53.86 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-01-021725



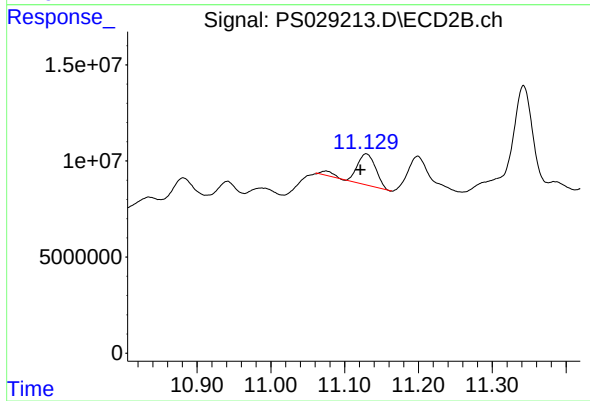
#13 2,4-DB

R.T.: 0.000 min
Exp R.T. : 10.745 min
Response: 0
Conc: N.D.



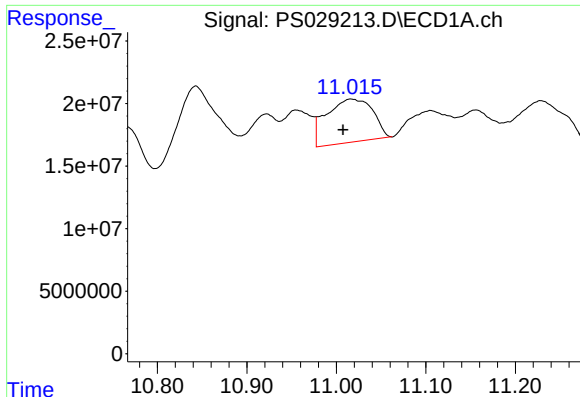
#14 DINOSEB

R.T.: 11.229 min
Delta R.T.: 0.032 min
Response: 78100355
Conc: 6.15 ng/ml



#14 DINOSEB

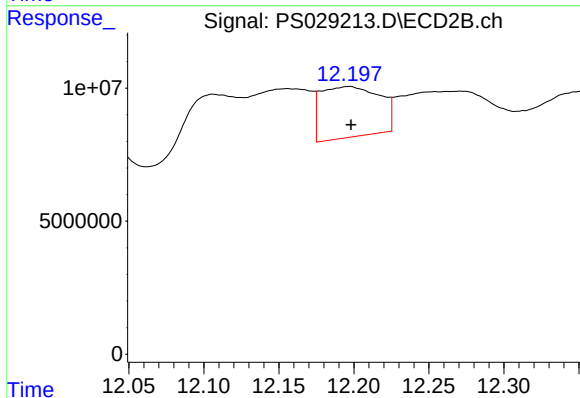
R.T.: 11.129 min
Delta R.T.: 0.008 min
Response: 29764982
Conc: 4.60 ng/ml



#15 Picloram

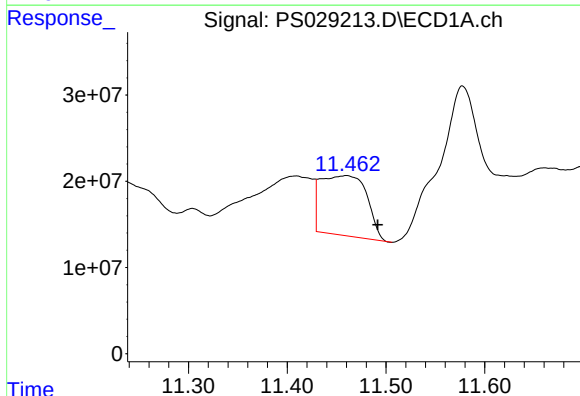
R.T.: 11.017 min
Delta R.T.: 0.009 min
Response: 124156697
Conc: 4.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-01-021725



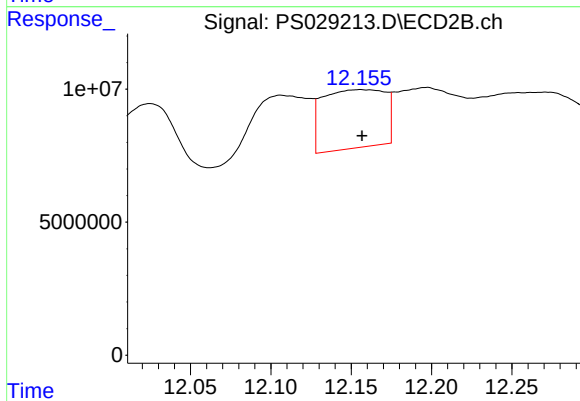
#15 Picloram

R.T.: 12.196 min
Delta R.T.: -0.002 min
Response: 52008677
Conc: 4.15 ng/ml



#16 DCPA

R.T.: 11.459 min
Delta R.T.: -0.032 min
Response: 225251987
Conc: 8.61 ng/ml



#16 DCPA

R.T.: 12.156 min
Delta R.T.: 0.000 min
Response: 59457677
Conc: 4.79 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029215.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 19:57
 Operator : AR\AJ
 Sample : Q1382-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-PCS-TC-03-021725

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:34:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.156	7.637	756.7E6	370.3E6	454.055	382.734
Target Compounds							
1) T	Dalapon	2.573f	0.000	652.4E6	0	198.458	N.D. #
2) T	3,5-DICHL...	6.324	6.612	28380249	33891683	11.396	23.278 #
3) T	4-Nitroph...	6.921f	7.177	85016481	38312391	59.292	44.738
5) T	DICAMBA	7.364	7.876f	10553451	8182636	1.203	1.549 #
6) T	MCPD	7.527	7.929	16880842	8966553	5.355	3.930 #
7) T	MCPA	7.675	8.174	28932455	21477919	6.446	6.815
8) T	DICHLORPROP	8.042	8.581f	10364594	83572009	4.645	63.774 #
9) T	2,4-D	8.305f	8.849	130.4E6	53817377	57.363	41.026 #
10) T	Pentachlo...	8.563	9.352f	76967756	16119713	1.849	<MDL #
11) T	2,4,5-TP ...	9.105f	9.724f	102.8E6	159.4E6	6.376	17.004 #
12) T	2,4,5-T	9.474f	10.208f	133.9E6	128.5E6	8.797	14.847 #
13) T	2,4-DB	9.977	10.745	137.8E6	6694799	57.028	7.829 #
14) T	DINOSEB	11.230f	11.128	51391824	31888696	4.045	4.924
15) T	Picloram	11.034f	12.200	111.4E6	30084467	4.263	2.399 #
16) T	DCPA	11.461f	12.152	194.7E6	33174867	7.444	2.671 #

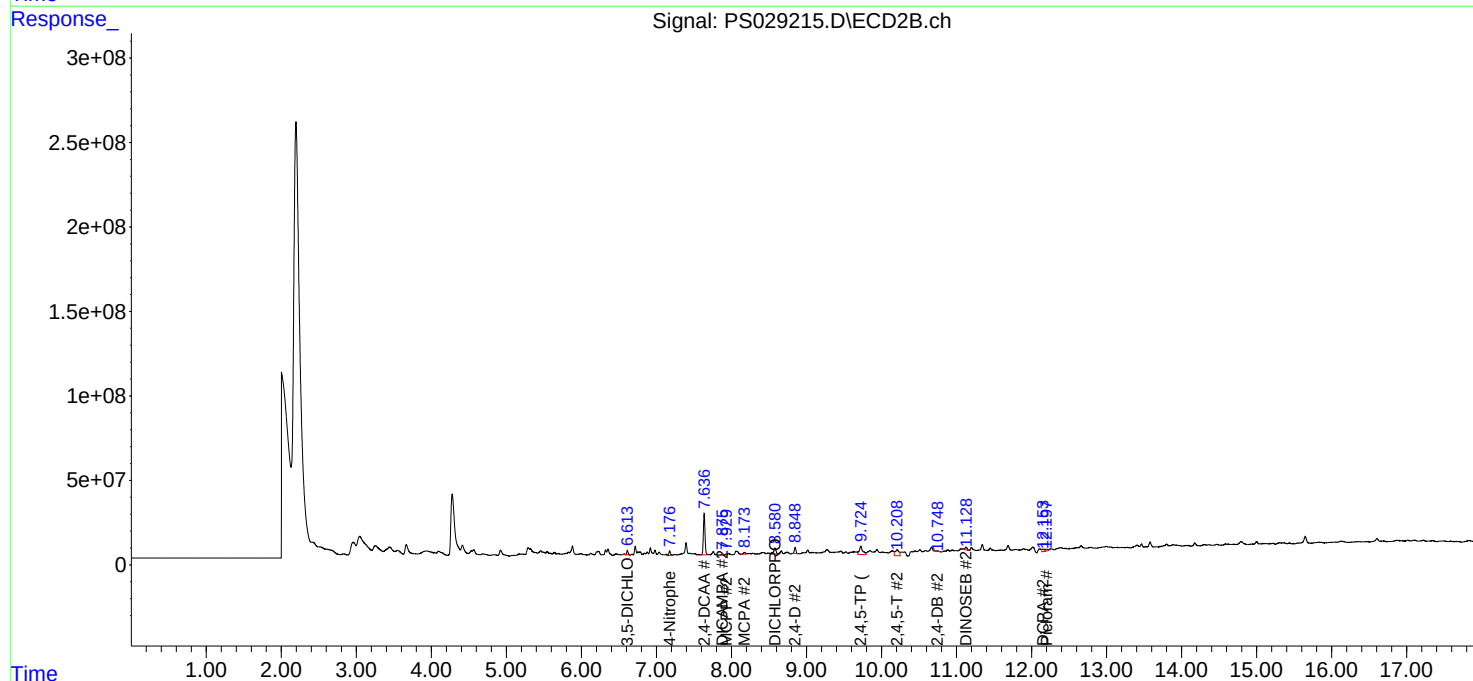
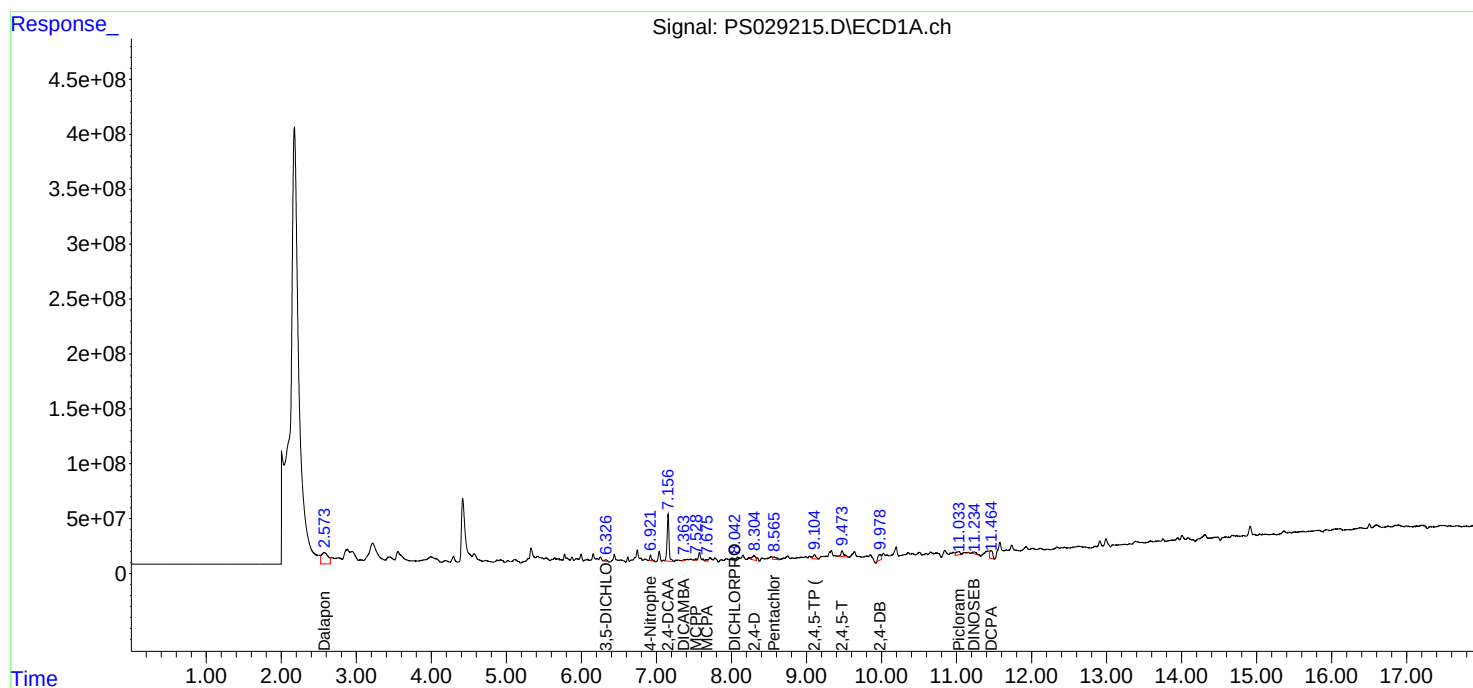
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

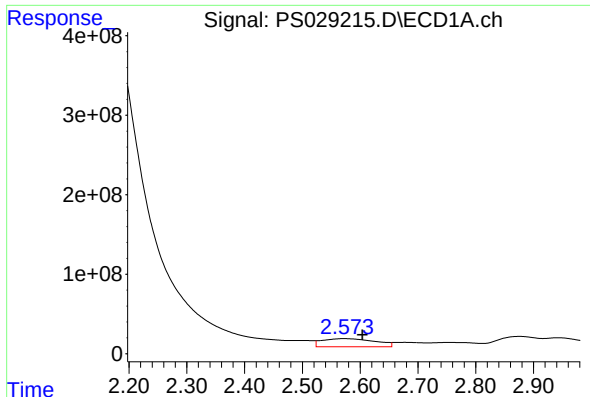
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 19:57
Operator : AR\AJ
Sample : Q1382-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-03-021725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:34:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

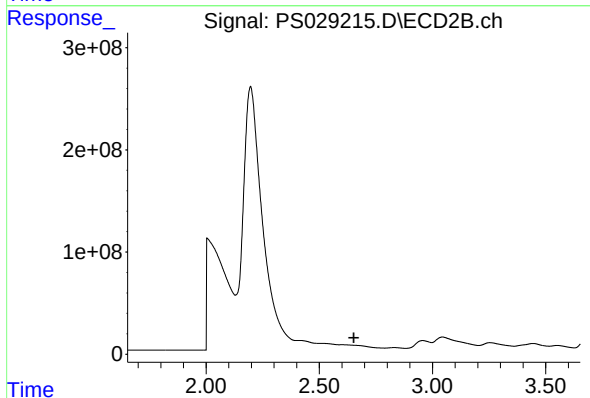




#1 Dalapon

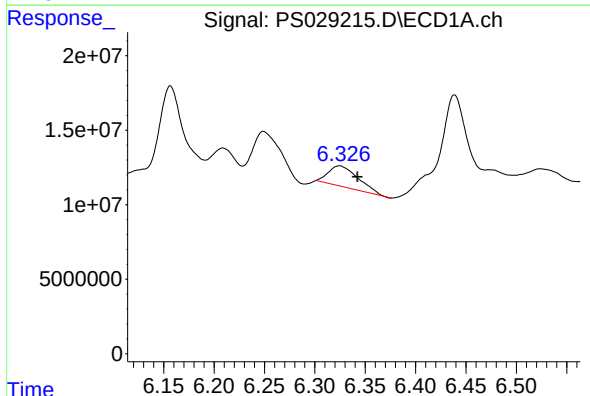
R.T.: 2.573 min
Delta R.T.: -0.031 min
Response: 652430058
Conc: 198.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-03-021725



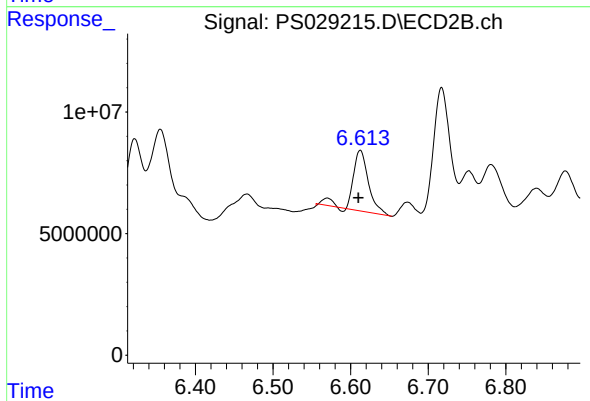
#1 Dalapon

R.T.: 0.000 min
Exp R.T. : 2.653 min
Response: 0
Conc: N.D.



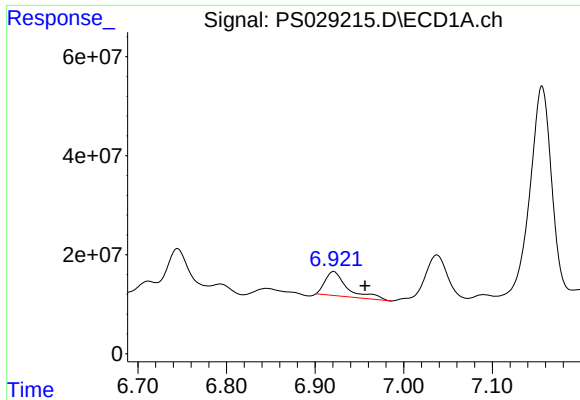
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.324 min
Delta R.T.: -0.018 min
Response: 28380249
Conc: 11.40 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

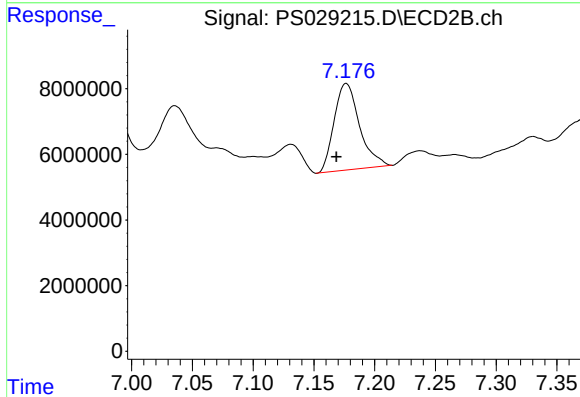
R.T.: 6.612 min
Delta R.T.: 0.002 min
Response: 33891683
Conc: 23.28 ng/ml



#3 4-Nitrophenol

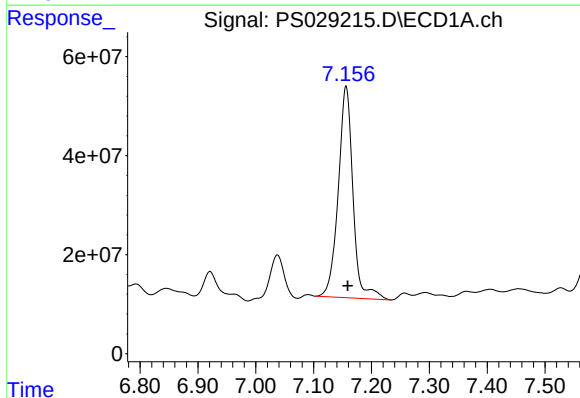
R.T.: 6.921 min
Delta R.T.: -0.035 min
Response: 85016481
Conc: 59.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-03-021725



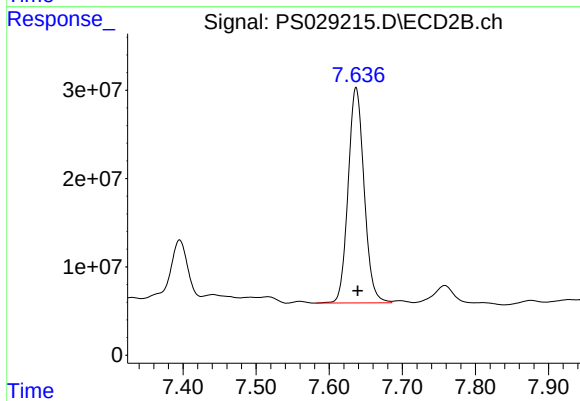
#3 4-Nitrophenol

R.T.: 7.177 min
Delta R.T.: 0.008 min
Response: 38312391
Conc: 44.74 ng/ml



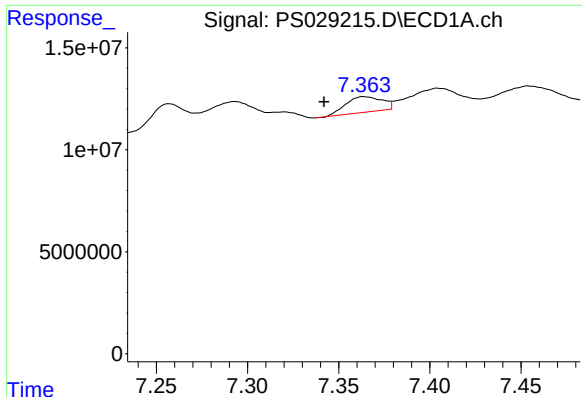
#4 2,4-DCAA

R.T.: 7.156 min
Delta R.T.: -0.003 min
Response: 756707996
Conc: 454.05 ng/ml



#4 2,4-DCAA

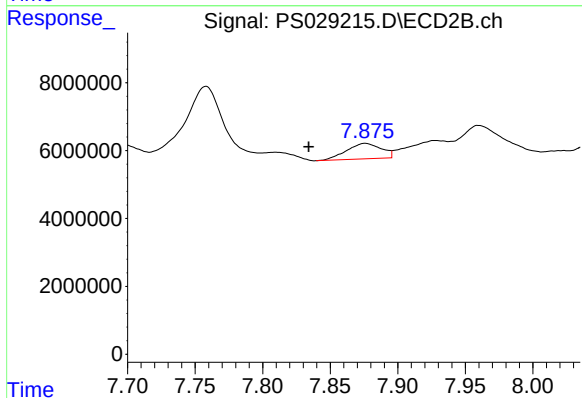
R.T.: 7.637 min
Delta R.T.: -0.002 min
Response: 370283313
Conc: 382.73 ng/ml



#5 DICAMBA

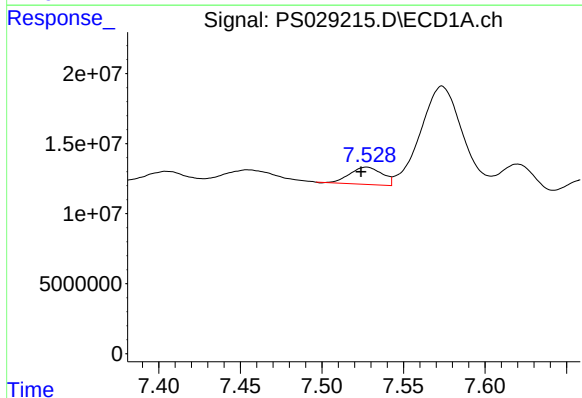
R.T.: 7.364 min
Delta R.T.: 0.022 min
Response: 10553451
Conc: 1.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-03-021725



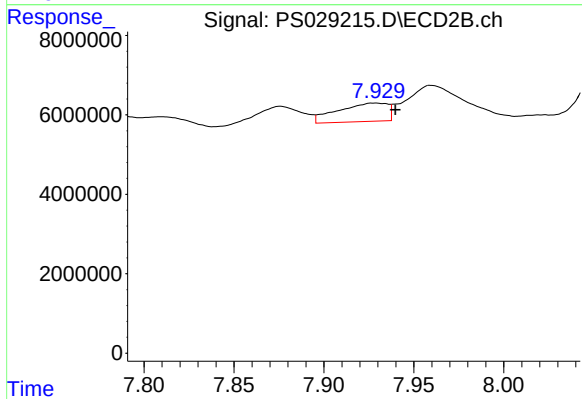
#5 DICAMBA

R.T.: 7.876 min
Delta R.T.: 0.042 min
Response: 8182636
Conc: 1.55 ng/ml



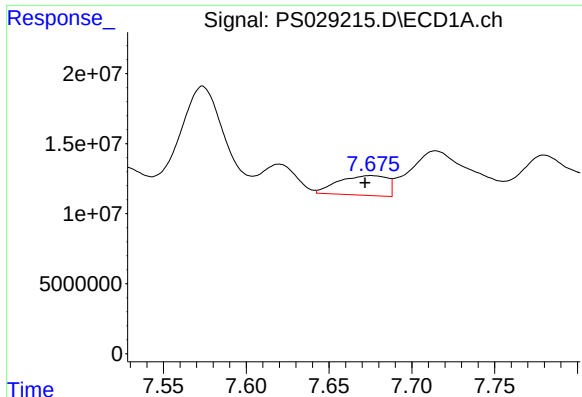
#6 MCP

R.T.: 7.527 min
Delta R.T.: 0.003 min
Response: 16880842
Conc: 5.35 ug/ml



#6 MCP

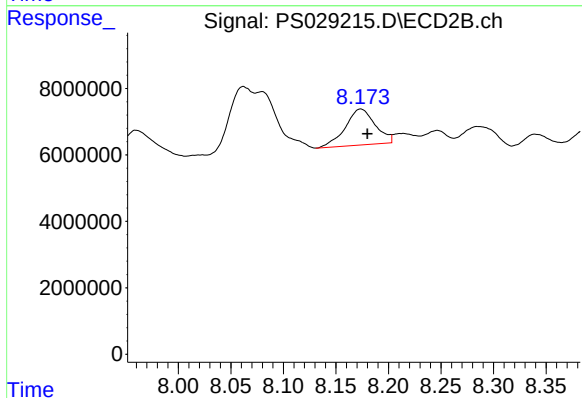
R.T.: 7.929 min
Delta R.T.: -0.011 min
Response: 8966553
Conc: 3.93 ug/ml



#7 MCPA

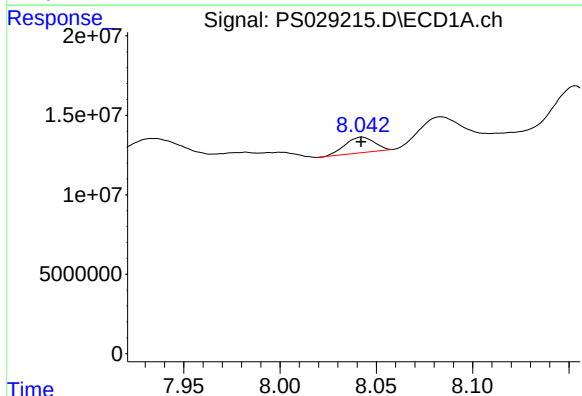
R.T.: 7.675 min
Delta R.T.: 0.004 min
Response: 28932455
Conc: 6.45 ug/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-03-021725



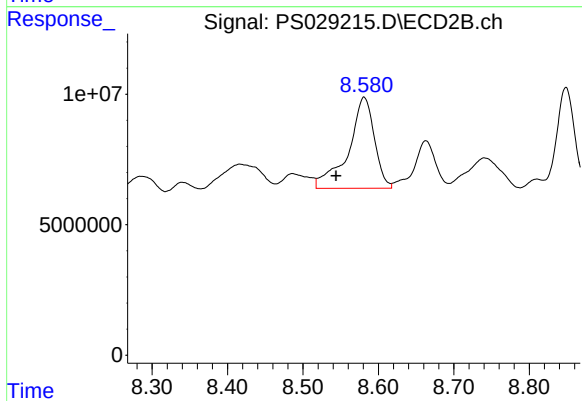
#7 MCPA

R.T.: 8.174 min
Delta R.T.: -0.006 min
Response: 21477919
Conc: 6.81 ug/ml



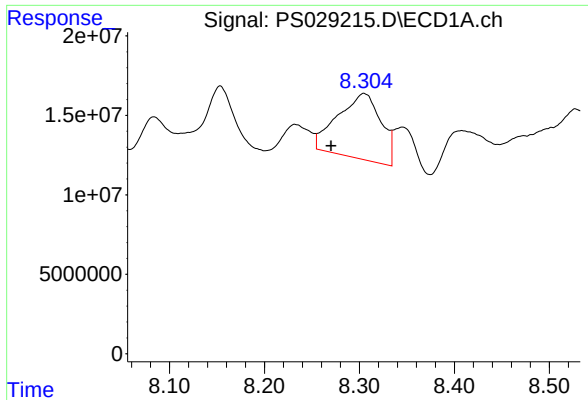
#8 DICHLORPROP

R.T.: 8.042 min
Delta R.T.: 0.000 min
Response: 10364594
Conc: 4.65 ng/ml



#8 DICHLORPROP

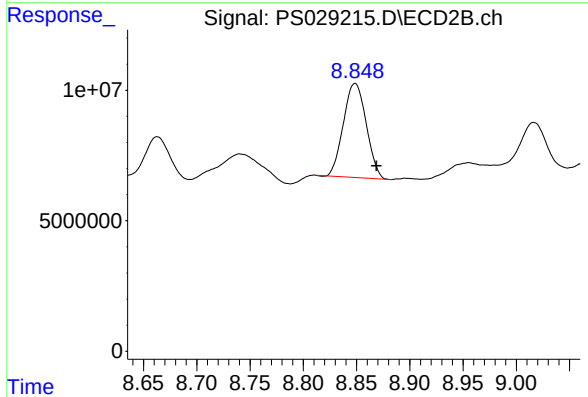
R.T.: 8.581 min
Delta R.T.: 0.037 min
Response: 83572009
Conc: 63.77 ng/ml



#9 2,4-D

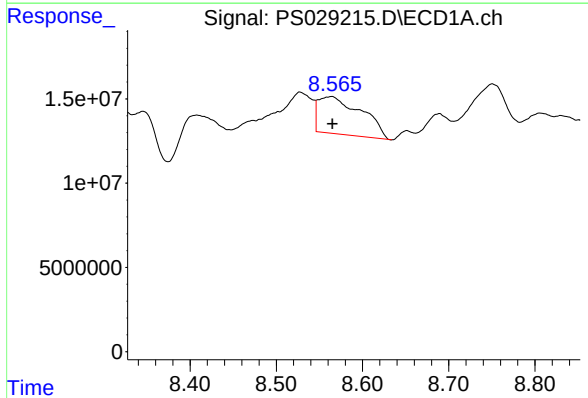
R.T.: 8.305 min
Delta R.T.: 0.035 min
Response: 130389128
Conc: 57.36 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-03-021725



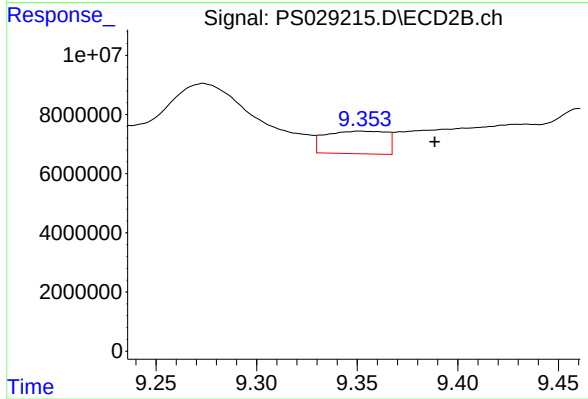
#9 2,4-D

R.T.: 8.849 min
Delta R.T.: -0.020 min
Response: 53817377
Conc: 41.03 ng/ml



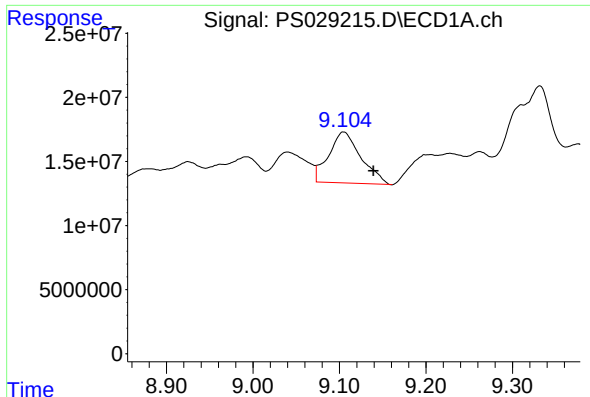
#10 Pentachlorophenol

R.T.: 8.563 min
Delta R.T.: -0.002 min
Response: 76967756
Conc: 1.85 ng/ml



#10 Pentachlorophenol

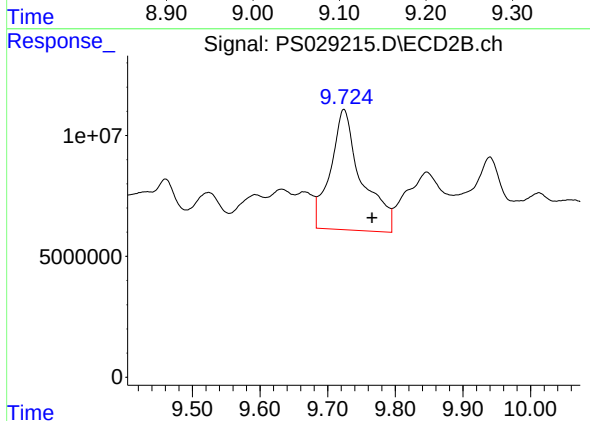
R.T.: 9.352 min
Delta R.T.: -0.036 min
Response: 16119713
Conc: N.D.



#11 2,4,5-TP (SILVEX)

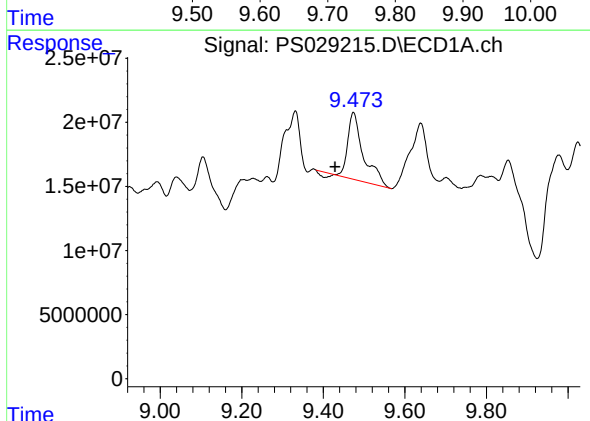
R.T.: 9.105 min
Delta R.T.: -0.034 min
Response: 102804357
Conc: 6.38 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-03-021725



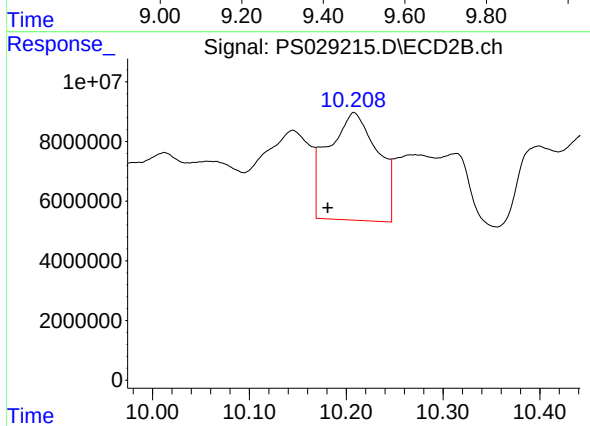
#11 2,4,5-TP (SILVEX)

R.T.: 9.724 min
Delta R.T.: -0.042 min
Response: 159438184
Conc: 17.00 ng/ml



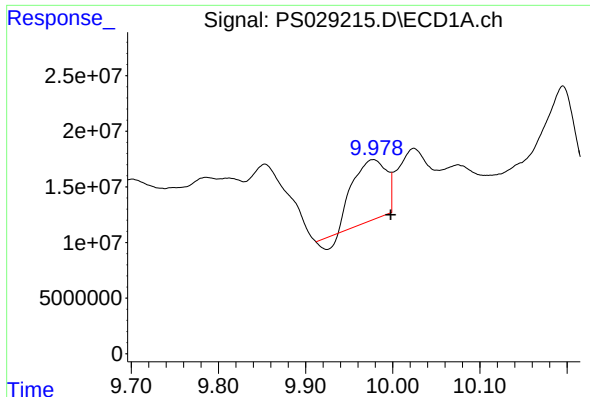
#12 2,4,5-T

R.T.: 9.474 min
Delta R.T.: 0.045 min
Response: 133913394
Conc: 8.80 ng/ml



#12 2,4,5-T

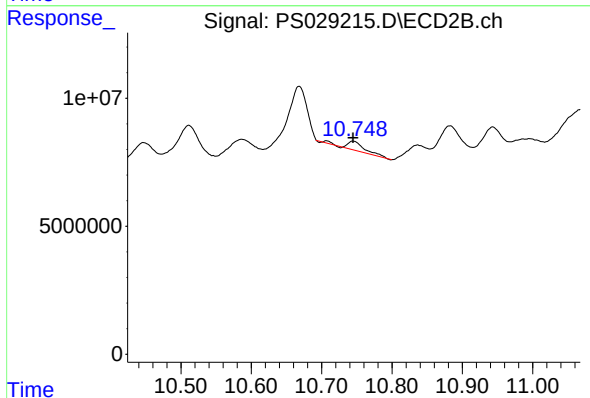
R.T.: 10.208 min
Delta R.T.: 0.027 min
Response: 128474807
Conc: 14.85 ng/ml



#13 2,4-DB

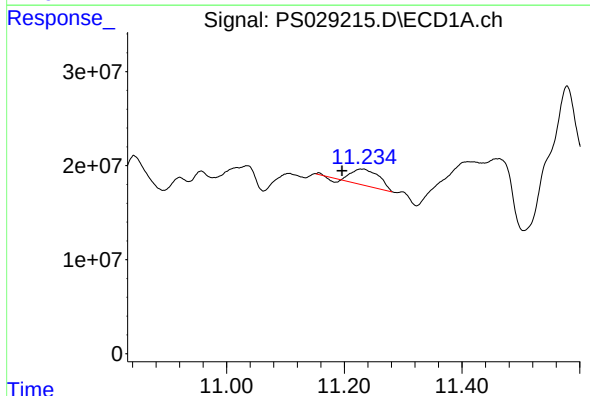
R.T.: 9.977 min
Delta R.T.: -0.020 min
Response: 137840419
Conc: 57.03 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-03-021725



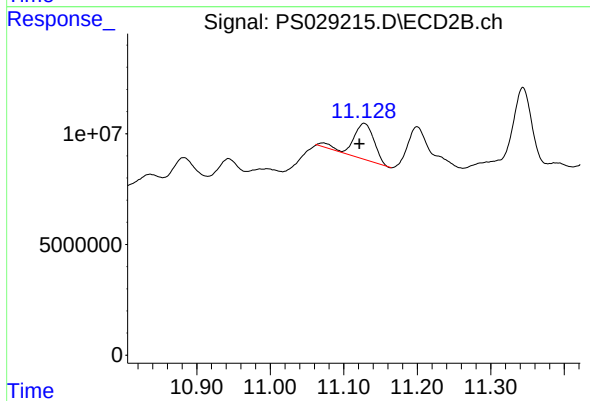
#13 2,4-DB

R.T.: 10.745 min
Delta R.T.: 0.000 min
Response: 6694799
Conc: 7.83 ng/ml



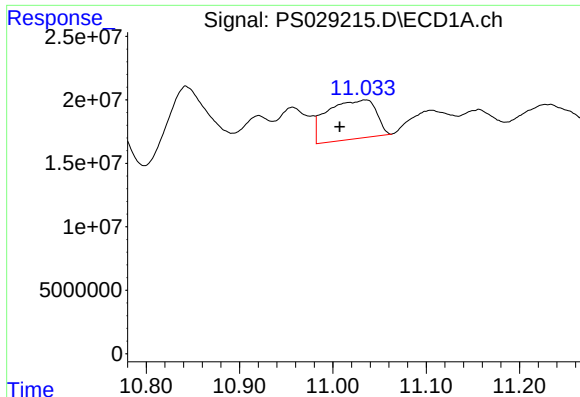
#14 DINOSEB

R.T.: 11.230 min
Delta R.T.: 0.034 min
Response: 51391824
Conc: 4.04 ng/ml



#14 DINOSEB

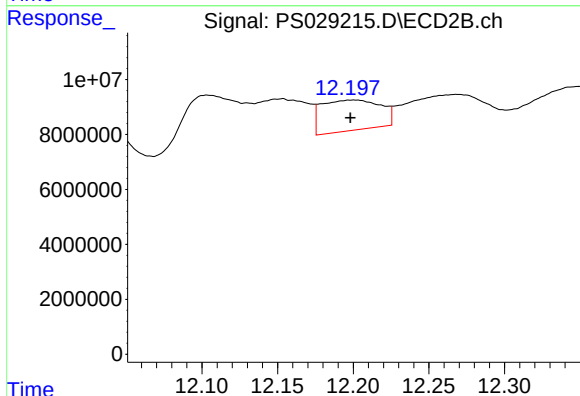
R.T.: 11.128 min
Delta R.T.: 0.006 min
Response: 31888696
Conc: 4.92 ng/ml



#15 Picloram

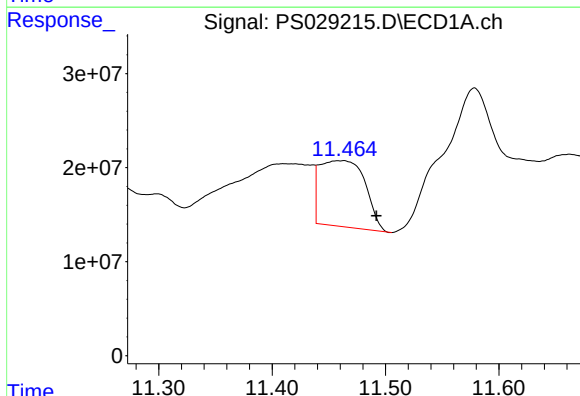
R.T.: 11.034 min
Delta R.T.: 0.027 min
Response: 111401388
Conc: 4.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-PCS-TC-03-021725



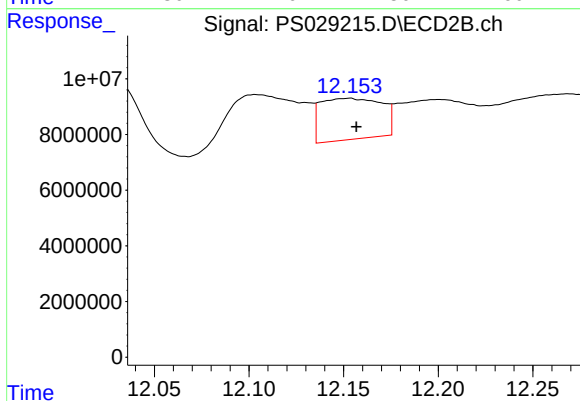
#15 Picloram

R.T.: 12.200 min
Delta R.T.: 0.002 min
Response: 30084467
Conc: 2.40 ng/ml



#16 DCPA

R.T.: 11.461 min
Delta R.T.: -0.031 min
Response: 194686610
Conc: 7.44 ng/ml



#16 DCPA

R.T.: 12.152 min
Delta R.T.: -0.005 min
Response: 33174867
Conc: 2.67 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
 Data File : PS029219.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2025 21:33
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 20 05:36:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
 Quant Title : 8080.M
 QLast Update : Thu Feb 20 02:10:31 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.158	7.636	1064.9E6	699.2E6	638.971	722.694
Target Compounds							
1) T	Dalapon	2.605	2.650	2010.1E6	1382.1E6	611.435	650.539
2) T	3,5-DICHL...	6.341	6.607	1509.0E6	981.8E6	605.931	674.298
3) T	4-Nitroph...	6.957	7.166	921.0E6	554.8E6	642.309	647.833
5) T	DICAMBA	7.341	7.831	5593.9E6	3660.0E6	637.488	692.786
6) T	MCPD	7.523	7.937	196.3E6	161.9E6	62.276	70.974
7) T	MCPA	7.671	8.177	268.6E6	219.4E6	59.842	69.622
8) T	DICHLORPROP	8.041	8.541	1329.7E6	890.6E6	595.976	679.639
9) T	2,4-D	8.270	8.866	1394.0E6	890.5E6	613.266	678.860
10) T	Pentachlo...	8.564	9.385	28932.0E6	16689.6E6	694.928	701.493
11) T	2,4,5-TP ...	9.138	9.762	10618.4E6	6539.3E6	658.508	697.421
12) T	2,4,5-T	9.428	10.177	9951.7E6	5981.9E6	653.737	691.270
13) T	2,4-DB	9.997	10.740	1475.9E6	580.2E6	610.610	678.556
14) T	DINOSEB	11.195	11.117	8029.6E6	4338.2E6	631.965	669.933
15) T	Picloram	11.007	12.193	16548.9E6	8334.6E6	633.253	664.631
16) T	DCPA	11.491	12.152	17844.2E6	8763.3E6	682.254	705.463

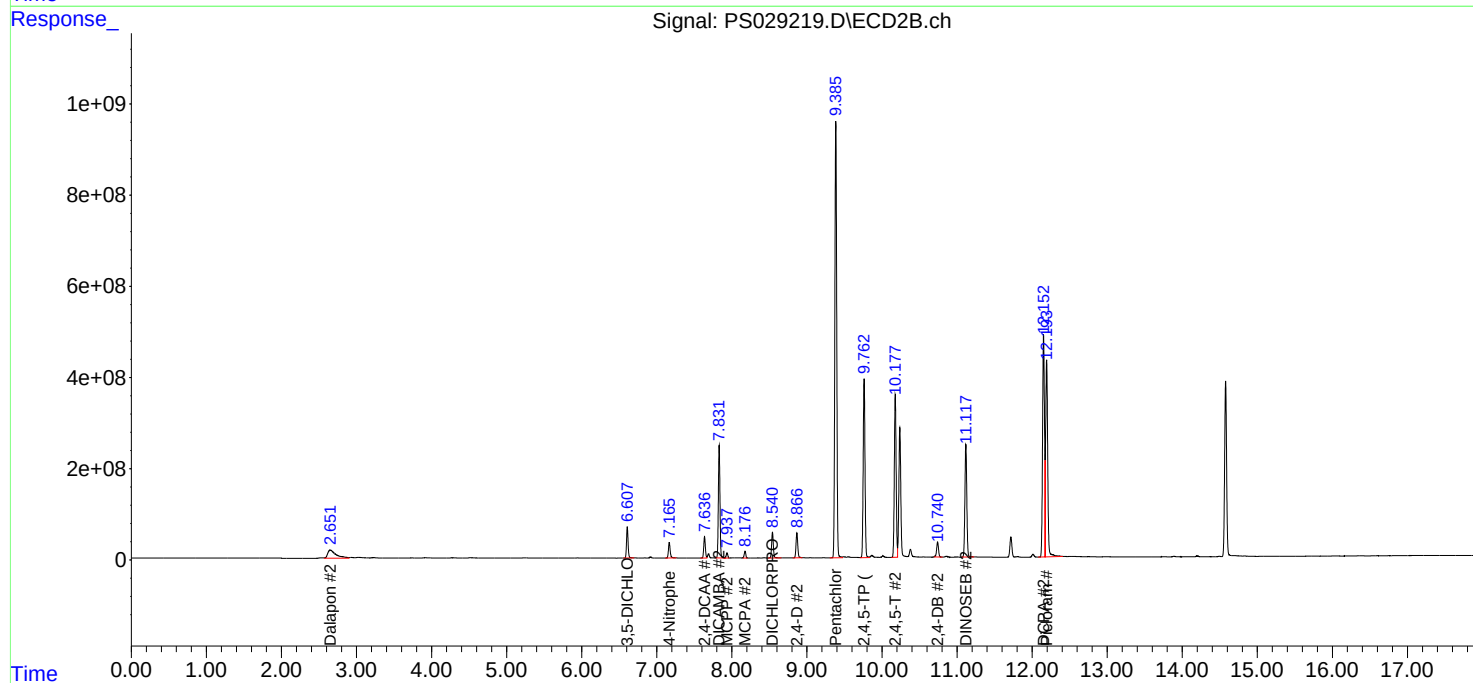
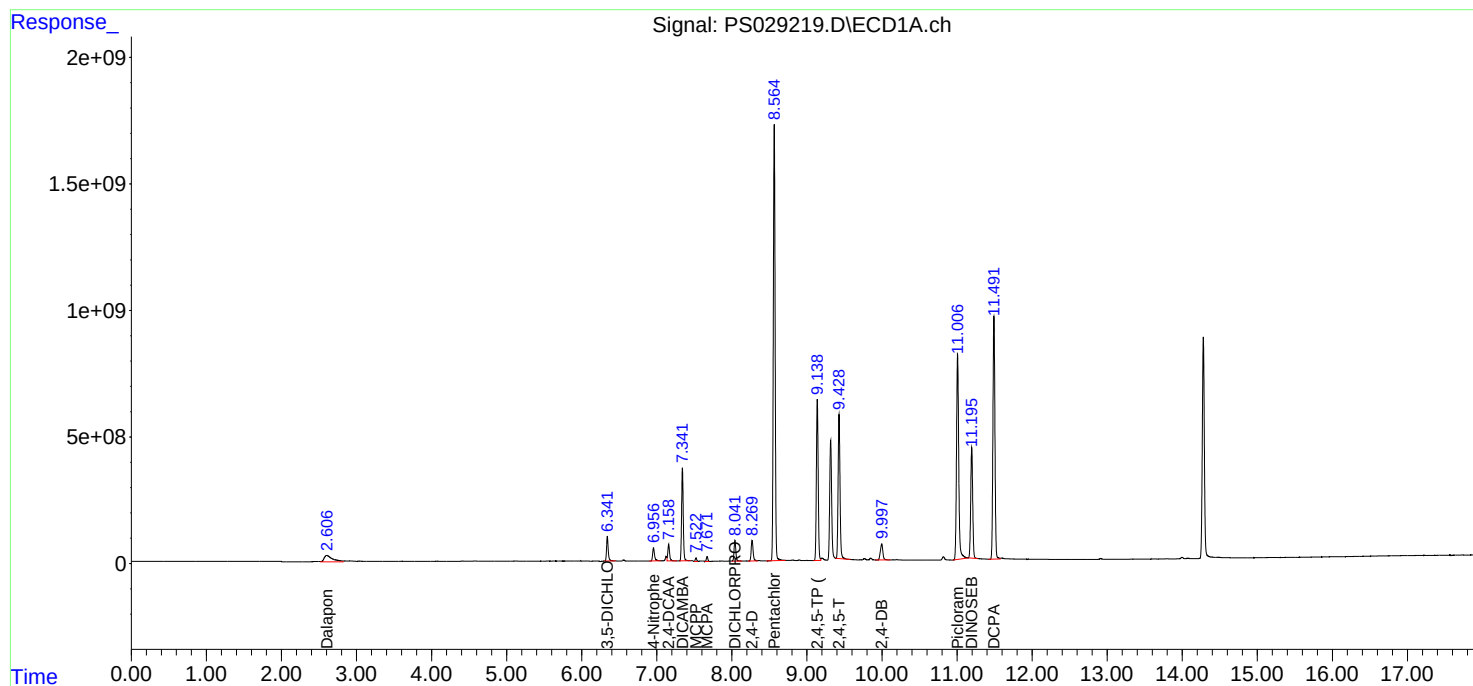
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

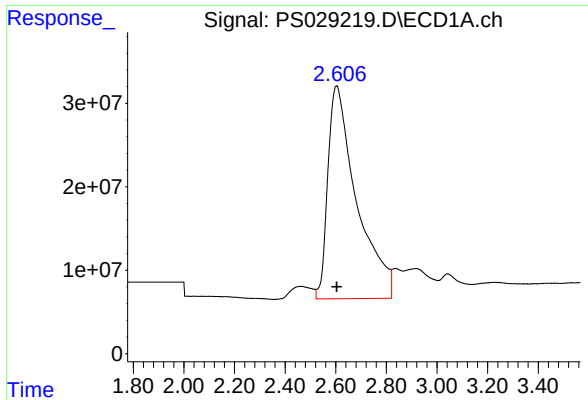
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021925\
Data File : PS029219.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Feb 2025 21:33
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 20 05:36:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021925.M
Quant Title : 8080.M
QLast Update : Thu Feb 20 02:10:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

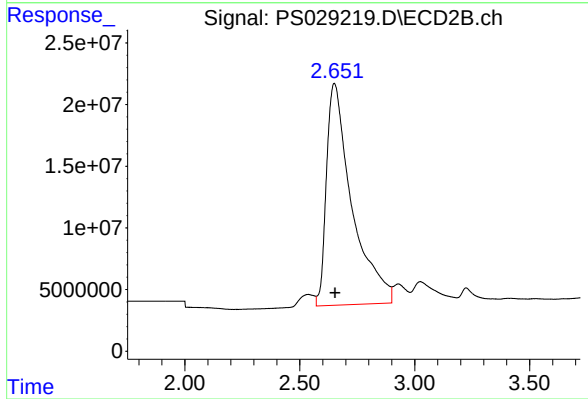




#1 Dalapon

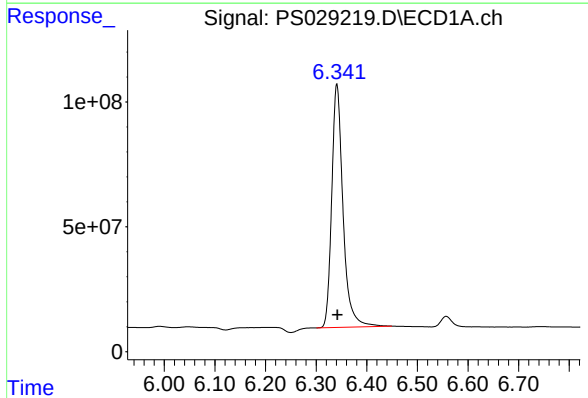
R.T.: 2.605 min
Delta R.T.: 0.000 min
Response: 2010085449
Conc: 611.43 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



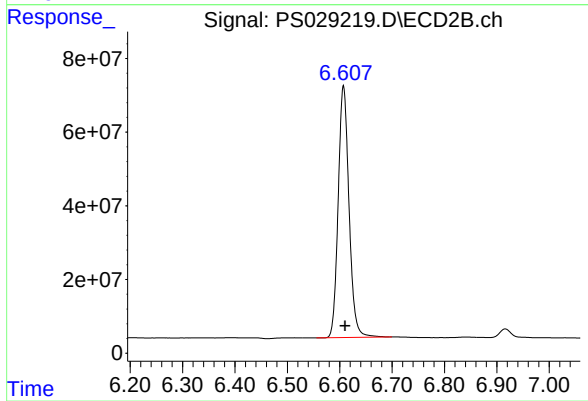
#1 Dalapon

R.T.: 2.650 min
Delta R.T.: -0.003 min
Response: 1382079852
Conc: 650.54 ng/ml



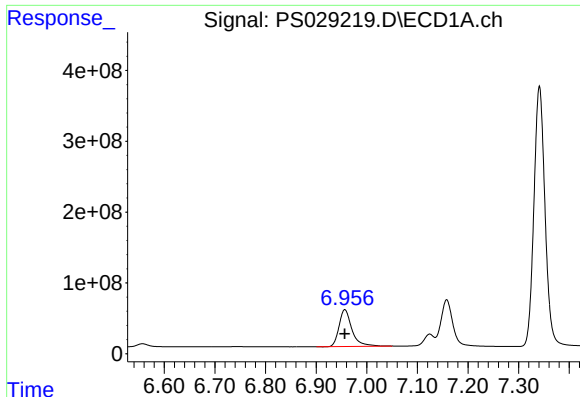
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.341 min
Delta R.T.: -0.001 min
Response: 1509035634
Conc: 605.93 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

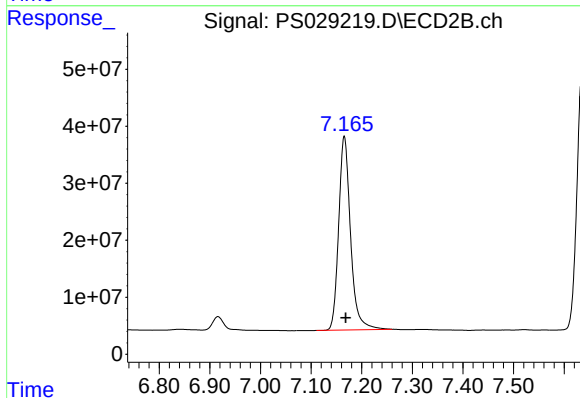
R.T.: 6.607 min
Delta R.T.: -0.003 min
Response: 981751881
Conc: 674.30 ng/ml



#3 4-Nitrophenol

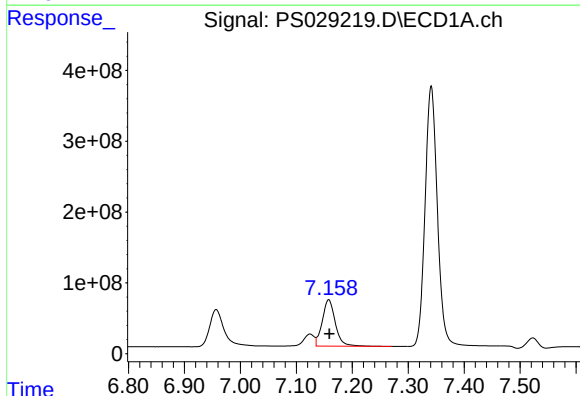
R.T.: 6.957 min
Delta R.T.: 0.000 min
Response: 920979088
Conc: 642.31 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



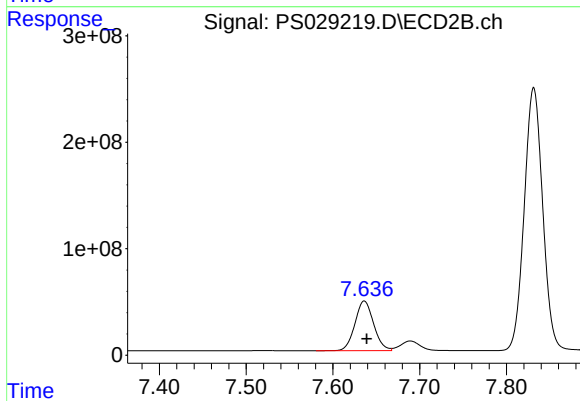
#3 4-Nitrophenol

R.T.: 7.166 min
Delta R.T.: -0.003 min
Response: 554789657
Conc: 647.83 ng/ml



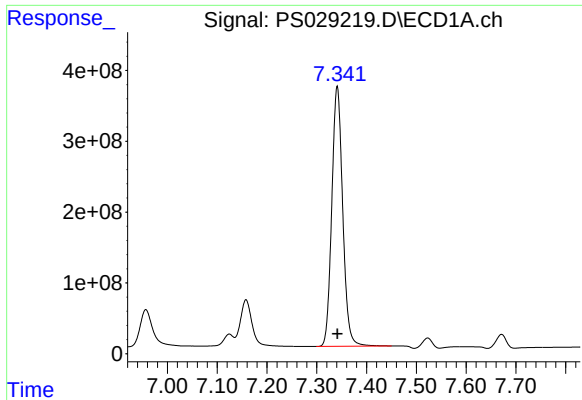
#4 2,4-DCAA

R.T.: 7.158 min
Delta R.T.: 0.000 min
Response: 1064882158
Conc: 638.97 ng/ml



#4 2,4-DCAA

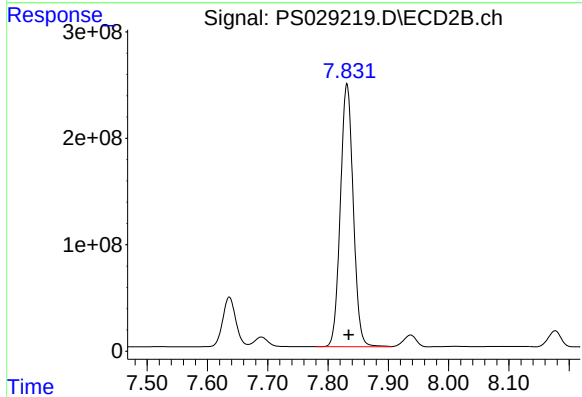
R.T.: 7.636 min
Delta R.T.: -0.003 min
Response: 699184734
Conc: 722.69 ng/ml



#5 DICAMBA

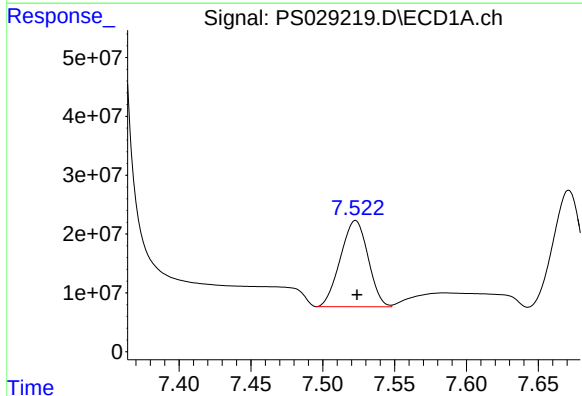
R.T.: 7.341 min
Delta R.T.: 0.000 min
Response: 5593930674
Conc: 637.49 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



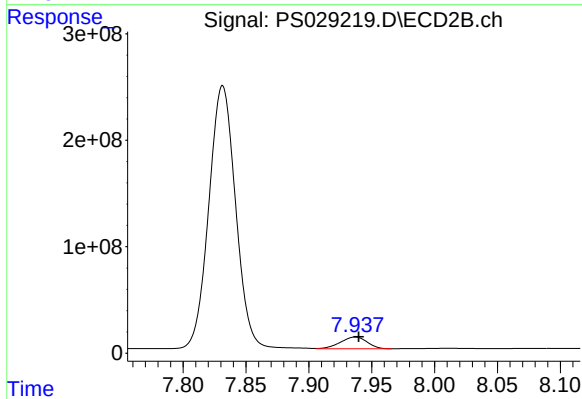
#5 DICAMBA

R.T.: 7.831 min
Delta R.T.: -0.003 min
Response: 3659973639
Conc: 692.79 ng/ml



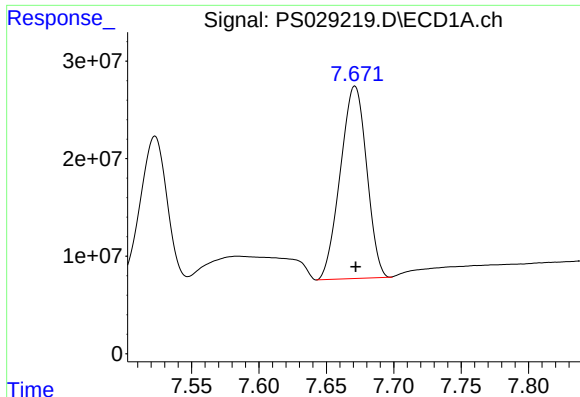
#6 MCP

R.T.: 7.523 min
Delta R.T.: -0.001 min
Response: 196320683
Conc: 62.28 ug/ml



#6 MCP

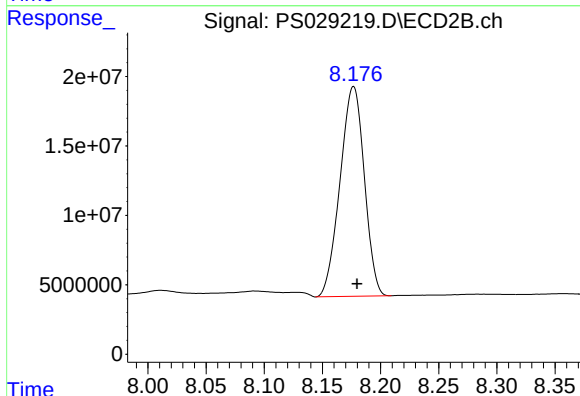
R.T.: 7.937 min
Delta R.T.: -0.003 min
Response: 161919469
Conc: 70.97 ug/ml



#7 MCPA

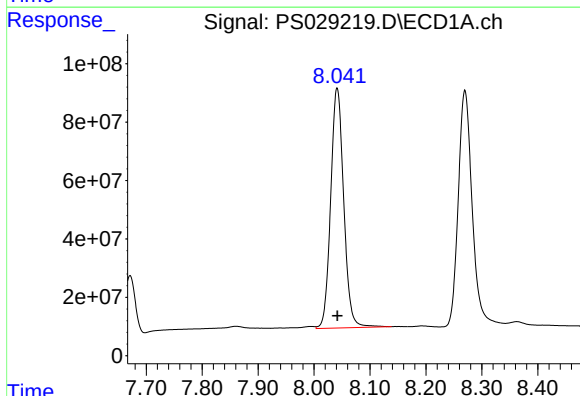
R.T.: 7.671 min
Delta R.T.: 0.000 min
Response: 268612362
Conc: 59.84 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



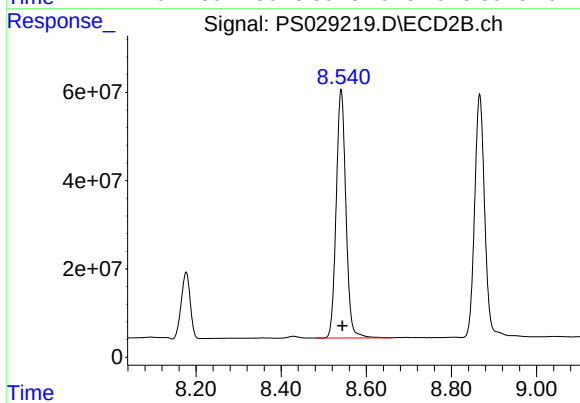
#7 MCPA

R.T.: 8.177 min
Delta R.T.: -0.003 min
Response: 219427898
Conc: 69.62 ug/ml



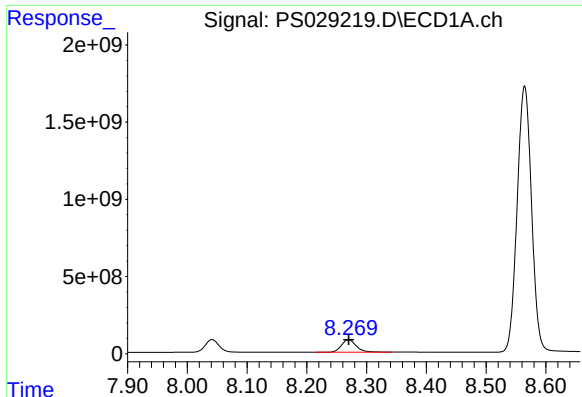
#8 DICHLORPROP

R.T.: 8.041 min
Delta R.T.: 0.000 min
Response: 1329741556
Conc: 595.98 ng/ml



#8 DICHLORPROP

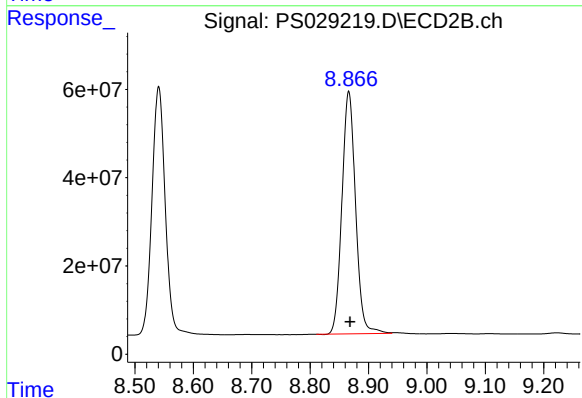
R.T.: 8.541 min
Delta R.T.: -0.003 min
Response: 890620954
Conc: 679.64 ng/ml



#9 2,4-D

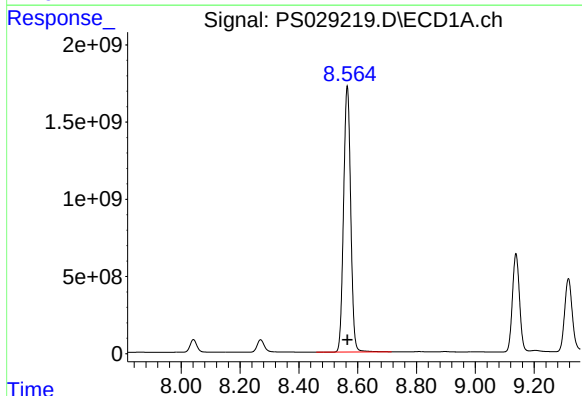
R.T.: 8.270 min
Delta R.T.: 0.000 min
Response: 1393995423
Conc: 613.27 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



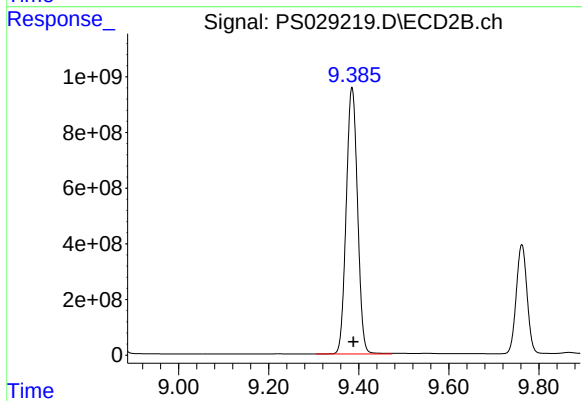
#9 2,4-D

R.T.: 8.866 min
Delta R.T.: -0.002 min
Response: 890518242
Conc: 678.86 ng/ml



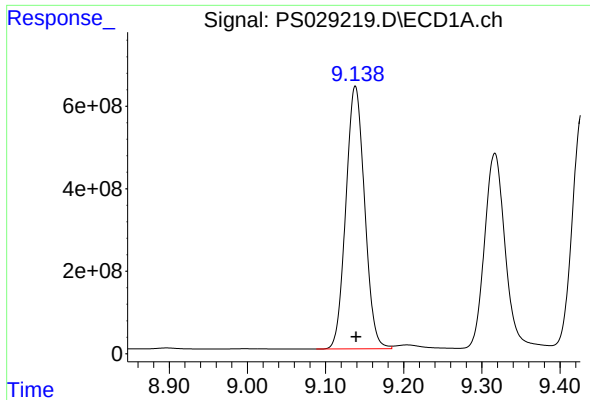
#10 Pentachlorophenol

R.T.: 8.564 min
Delta R.T.: 0.000 min
Response: 28931955858
Conc: 694.93 ng/ml



#10 Pentachlorophenol

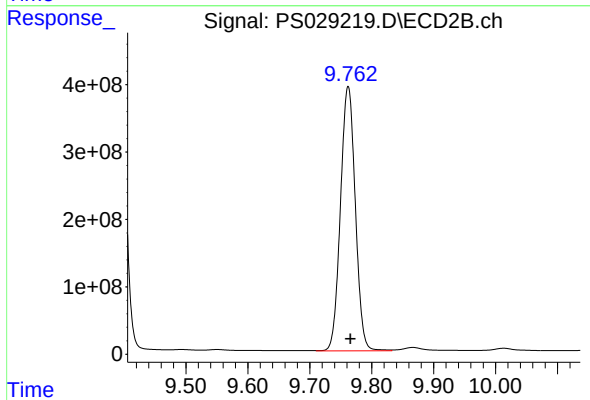
R.T.: 9.385 min
Delta R.T.: -0.004 min
Response: 16689607341
Conc: 701.49 ng/ml



#11 2,4,5-TP (SILVEX)

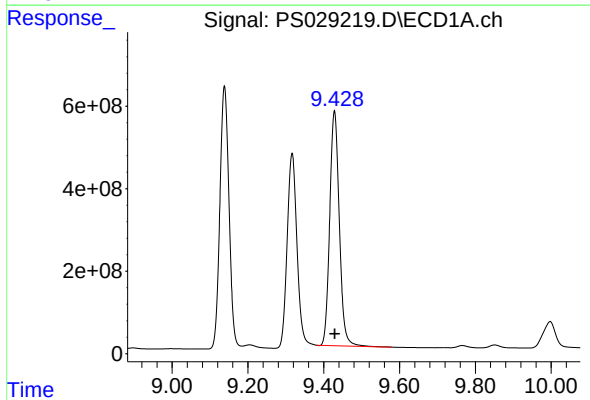
R.T.: 9.138 min
Delta R.T.: -0.001 min
Response: 10618360241
Conc: 658.51 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



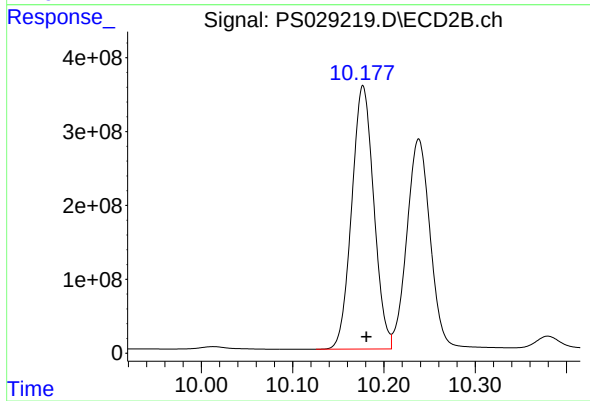
#11 2,4,5-TP (SILVEX)

R.T.: 9.762 min
Delta R.T.: -0.004 min
Response: 6539326539
Conc: 697.42 ng/ml



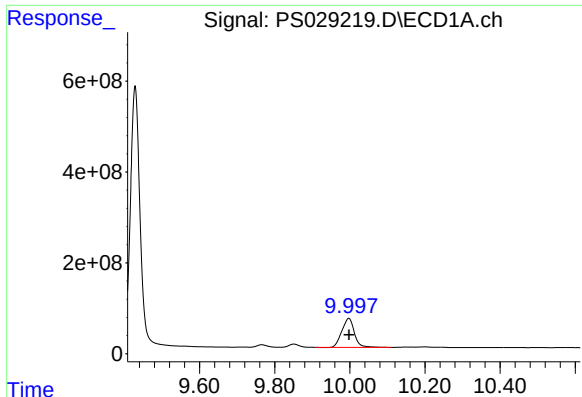
#12 2,4,5-T

R.T.: 9.428 min
Delta R.T.: 0.000 min
Response: 9951705775
Conc: 653.74 ng/ml



#12 2,4,5-T

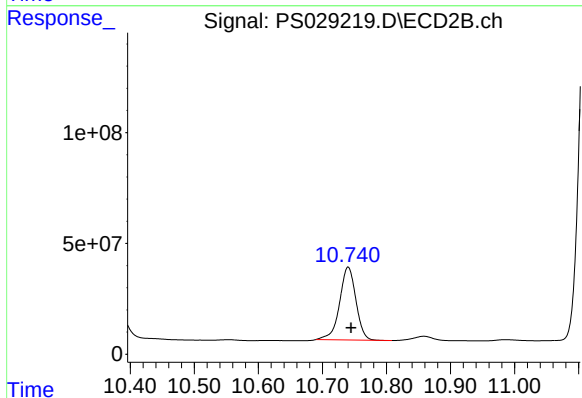
R.T.: 10.177 min
Delta R.T.: -0.004 min
Response: 5981904548
Conc: 691.27 ng/ml



#13 2,4-DB

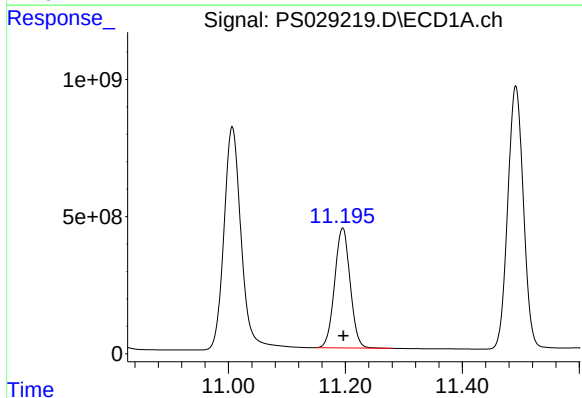
R.T.: 9.997 min
Delta R.T.: 0.000 min
Response: 1475896009
Conc: 610.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



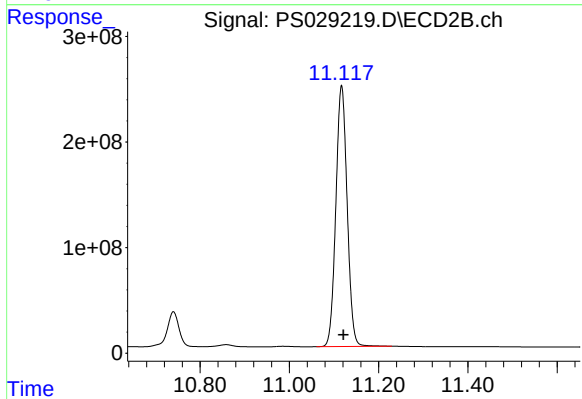
#13 2,4-DB

R.T.: 10.740 min
Delta R.T.: -0.004 min
Response: 580236561
Conc: 678.56 ng/ml



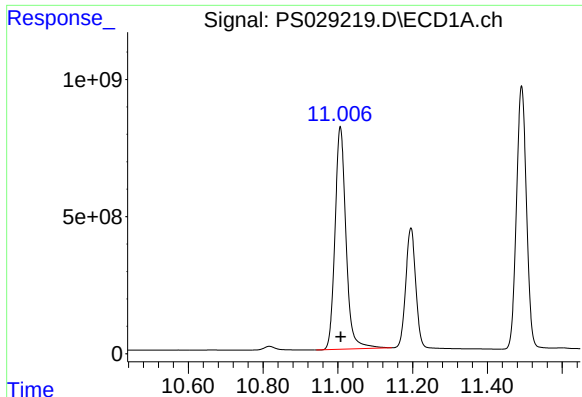
#14 DINOSEB

R.T.: 11.195 min
Delta R.T.: -0.001 min
Response: 8029649001
Conc: 631.96 ng/ml



#14 DINOSEB

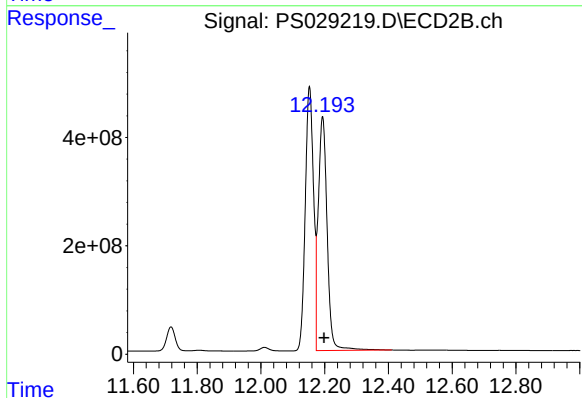
R.T.: 11.117 min
Delta R.T.: -0.004 min
Response: 4338231555
Conc: 669.93 ng/ml



#15 Picloram

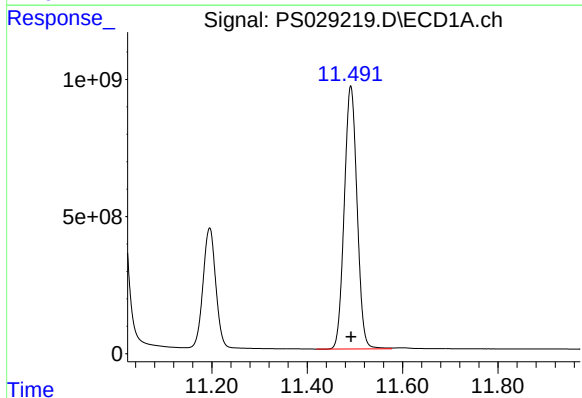
R.T.: 11.007 min
Delta R.T.: 0.000 min
Response: 16548914677
Conc: 633.25 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



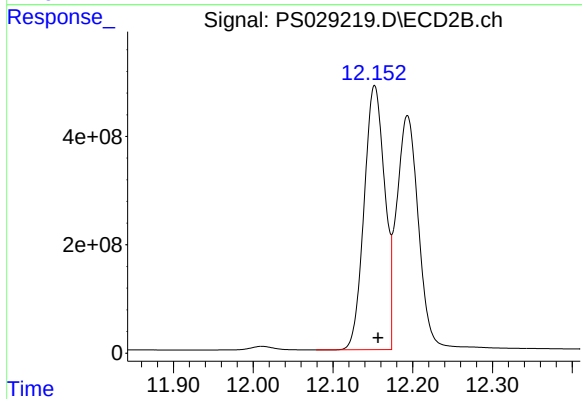
#15 Picloram

R.T.: 12.193 min
Delta R.T.: -0.005 min
Response: 8334625374
Conc: 664.63 ng/ml



#16 DCPA

R.T.: 11.491 min
Delta R.T.: 0.000 min
Response: 17844184642
Conc: 682.25 ng/ml



#16 DCPA

R.T.: 12.152 min
Delta R.T.: -0.005 min
Response: 8763342017
Conc: 705.46 ng/ml