

DATA PACKAGE
GC SEMI-VOLATILES

PROJECT NAME : FT MEADE TIPTON AIRFIELD PARCEL RI - PO 0111169

WESTON SOLUTIONS

1400 Weston Way

PO Box 2653

West Chester, PA - 19380

Phone No: 610-701-7400

ORDER ID : P5117

ATTENTION : Nathan Fretz



Laboratory Certification ID # 20012



1) TCLP HERBICIDE Data	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	12
9) QC Data Summary For TCLP Herbicide	13
9.1) Deuterated Monitoring Compound Summary	14
9.2) MS/MSD Summary	15
9.3) LCS/LCSD Summary	17
9.4) Method Blank Summary	18
10) Sample Data	19
10.1) TAPIAL2-IDW-SOIL-120424-00-T2	20
10.2) PB165390TB	24
11) Calibration Data Summary	28
11.1) Initial Calibration Data	29
11.1.1) PS112624	29
11.2) Continued Calibration Data	93
11.2.1) PS028719.D	93
11.2.2) PS028727.D	107
11.3) Analytical Seq	121
12) Compound Detection Summary	123
13) QC Sample Data	126
13.1) Method Blank Data	127
13.2) PIBLK Data	131
13.3) LCS Data	143
13.4) MS Data	154
13.5) MSD Data	165
14) Manual Integration	176
15) Analytical Runlogs	178
16) Extraction Logs	184
16.1) PB165390.pdf	184
16.2) PB165390IC.pdf	188

Table Of Contents for P5117

16.3) PB165455.pdf	189
16.4) PB165455IC.pdf	191
17) Standard Prep Logs	192
18) Shipping Document	250
18.1) Chain Of Custody	251
18.2) Lab Certificate	252
19) Not Reviewed Data	253

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

Cover Page

Order ID : P5117

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number

P5117-01
P5117-02

Client Sample Number

TAPIAL3-SB04I-10-120324-00-T1
TAPIAL2-IDW-SOIL-120424-00-T2

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: 12/12/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions

Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169

Project # N/A

Chemtech Project # P5117

Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 12/05/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Anions Group1, Cyanide, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TOC and TS. This data package contains results for TCLP Herbicide.

C. Analytical Techniques:

The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0.5 μ m df, Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 μ m df, Catalog #: 11324. The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Retention Times were acceptable for all samples.

The MS {P5117-02MS} with File ID: PS028721.D recoveries met the requirements for all compounds except for 2,4,5-TP(Silvex)[170%] due to matrix interference.

The MSD {P5117-02MSD} with File ID: PS028722.D recoveries met the acceptable requirements except for 2,4,5-TP(Silvex)[170%] due to matrix interference.

The sample # TAPIAL2-IDW-SOIL-120424-00-T2MS and TAPIAL2-IDW-SOIL-120424-00-T2MSD are failing for 2,4,5-TP(Silvex) and the original sample(TAPIAL2-IDW-SOIL-120424-00-T2) is reported with M flag for this compound.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

F: Calculation for water sample

$$\text{ug/l} = \frac{(A_x)(V_t)(MW)}{(ICF)(V_i)(V_s)} \times DF$$

Where:

A_x = Area for the parameter to be measured.

ICF = average calibration factor for the calibration standards.

V_t = Volume of total extract in uL (Take into account dilutions)

I_s = Amount of standard injected in nanograms (ng)

V_i = Volume of extract injected.

V_s = Volume of Aqueous extracted (mL).

MW = molecular weight of the compound

G. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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



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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P5117

MATRIX: TCLP

METHOD: 8151A/3510/1311

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified.			✓
2.	Standard Summary Submitted.			✓
3.	Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {P5117-02MS} with File ID: PS028721.D recoveries met the requirements for all compounds except for 2,4,5-TP(Silvex)[170%] due to matrix interference. The MSD {P5117-02MSD} with File ID: PS028722.D recoveries met the acceptable requirements except for 2,4,5-TP(Silvex)[170%] due to matrix interference. The sample # TAPIAL2-IDW-SOIL-120424-00-T2MS and TAPIAL2-IDW-SOIL-120424-00-T2MSD are failing for 2,4,5-TP(Silvex) and the original sample(TAPIAL2-IDW-SOIL-120424-00-T2) is reported with M flag for this compound. The Blank Spike met requirements for all samples . The RPD met criteria .		✓	
7.	Retention Time Shift Meet Criteria (if applicable) Comments:			✓



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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
8.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

The not QT review data is reported in the Miscellaneous.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5117

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: SOHIL JODHANI

Date: 12/12/2024

LAB CHRONICLE

OrderID:	P5117	OrderDate:	12/5/2024 10:55:00 AM
Client:	Weston Solutions	Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact:	Nathan Fretz	Location:	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5117-02	TAPIAL2-IDW-SOIL-1 20424-00-T2	SOIL			12/05/24			12/05/24
			PCB	8082A		12/06/24	12/06/24	
			TCLP Herbicide	8151A		12/06/24	12/06/24	

Hit Summary Sheet
SW-846

SDG No.: P5117

Order ID: P5117

Client: Weston Solutions

Project ID: Ft Meade Tipton Airfield Parcel RI - P

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

Total Concentration: 0.000



QC SUMMARY

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

Surrogate Summary

SDG No.: **P5117**

Client: **Weston Solutions**

Analytical Method: **8151A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS028631.D	PIBLK-PS028631.D	2,4-DCAA	1	500	492	98		32	138
		2,4-DCAA	2	500	492	98		32	138
I.BLK-PS028718.D	PIBLK-PS028718.D	2,4-DCAA	1	500	501	100		32	138
		2,4-DCAA	2	500	450	90		32	138
P5117-02	TAPIAL2-IDW-SOIL-120424-00-T2	2,4-DCAA	1	500	350	70		32	138
		2,4-DCAA	2	500	273	55		32	138
P5117-02MS	TAPIAL2-IDW-SOIL-120424-00-T2	2,4-DCAA	1	500	358	72		32	138
		2,4-DCAA	2	500	264	53		32	138
P5117-02MSD	TAPIAL2-IDW-SOIL-120424-00-T2	2,4-DCAA	1	500	361	72		32	138
		2,4-DCAA	2	500	264	53		32	138
PB165455BL	PB165455BL	2,4-DCAA	1	500	466	93		32	138
		2,4-DCAA	2	500	403	81		32	138
PB165455BS	PB165455BS	2,4-DCAA	1	500	508	102		32	138
		2,4-DCAA	2	500	451	90		32	138
PB165390TB	PB165390TB	2,4-DCAA	1	500	264	53		32	138
		2,4-DCAA	2	500	229	46		32	138
I.BLK-PS028726.D	PIBLK-PS028726.D	2,4-DCAA	1	500	502	100		32	138
		2,4-DCAA	2	500	453	91		32	138

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5117

Client: Weston Solutions

Analytical Method: 8151A DataFile : PS028721.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	TAPIAL2-IDW-SOIL-120424-00-T2MS											
P5117-02MS	2,4-D	50	0	52.8	ug/L	106				45	152	
	2,4,5-TP(Silvex)	50	0	85.0	ug/L	170	*			51	134	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5117

Client: Weston Solutions

Analytical Method: 8151A DataFile : PS028722.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	TAPIAL2-IDW-SOIL-120424-00-T2MSD											
P5117-02MSD	2,4-D	50	0	52.9	ug/L	106		0		45	152	20
	2,4,5-TP(Silvex)	50	0	84.9	ug/L	170	*	0		51	134	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5117

Client: Weston Solutions

Analytical Method: 8151A Datafile : PS028724.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB165455BS	2,4-D	5	4.80	ug/L	96				45	152		
	2,4,5-TP(Silvex)	5	4.90	ug/L	98				51	134		

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165455BL

Lab Name: CHEMTECH

Contract: WEST04

Lab Code: CHEM Case No.: P5117

SAS No.: P5117 SDG NO.: P5117

Lab Sample ID: PB165455BL

Lab File ID: PS028723.D

Matrix: (soil/water) water

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 12/06/2024

Date Analyzed (1): 12/06/2024

Date Analyzed (2): 12/06/2024

Time Analyzed (1): 17:45

Time Analyzed (2): 17:45

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
TAPIAL2-IDW-SOIL-120424-00-T2	P5117-02	PS028720.D	12/06/2024	12/06/2024
TAPIAL2-IDW-SOIL-120424-00-T2MS	P5117-02MS	PS028721.D	12/06/2024	12/06/2024
TAPIAL2-IDW-SOIL-120424-00-T2MSD	P5117-02MSD	PS028722.D	12/06/2024	12/06/2024
PB165455BS	PB165455BS	PS028724.D	12/06/2024	12/06/2024
PB165390TB	PB165390TB	PS028725.D	12/06/2024	12/06/2024

COMMENTS: _____



SAMPLE DATA

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/05/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/05/24
Client Sample ID:	TAPIAL2-IDW-SOIL-120424-00-T2	SDG No.:	P5117
Lab Sample ID:	P5117-02	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028720.D	1	12/06/24 10:45	12/06/24 16:32	PB165455

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	15.0	U	4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	15.0	UM	4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	350		32 - 138		70%	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\PS120624\
Data File : PS028720.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 16:32
Operator : AR\AJ
Sample : P5117-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:56:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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	7.225	7.721	939.9E6	368.4E6	350.387	273.474

Target Compounds

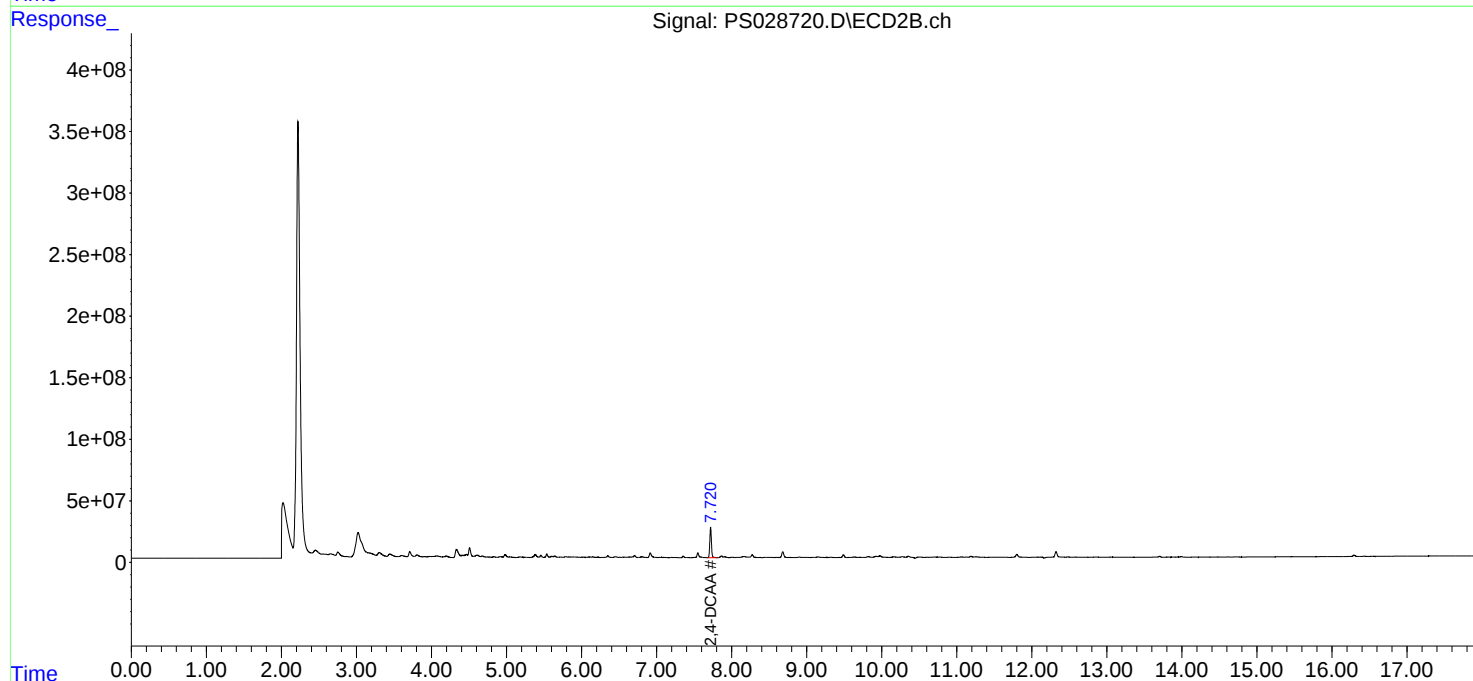
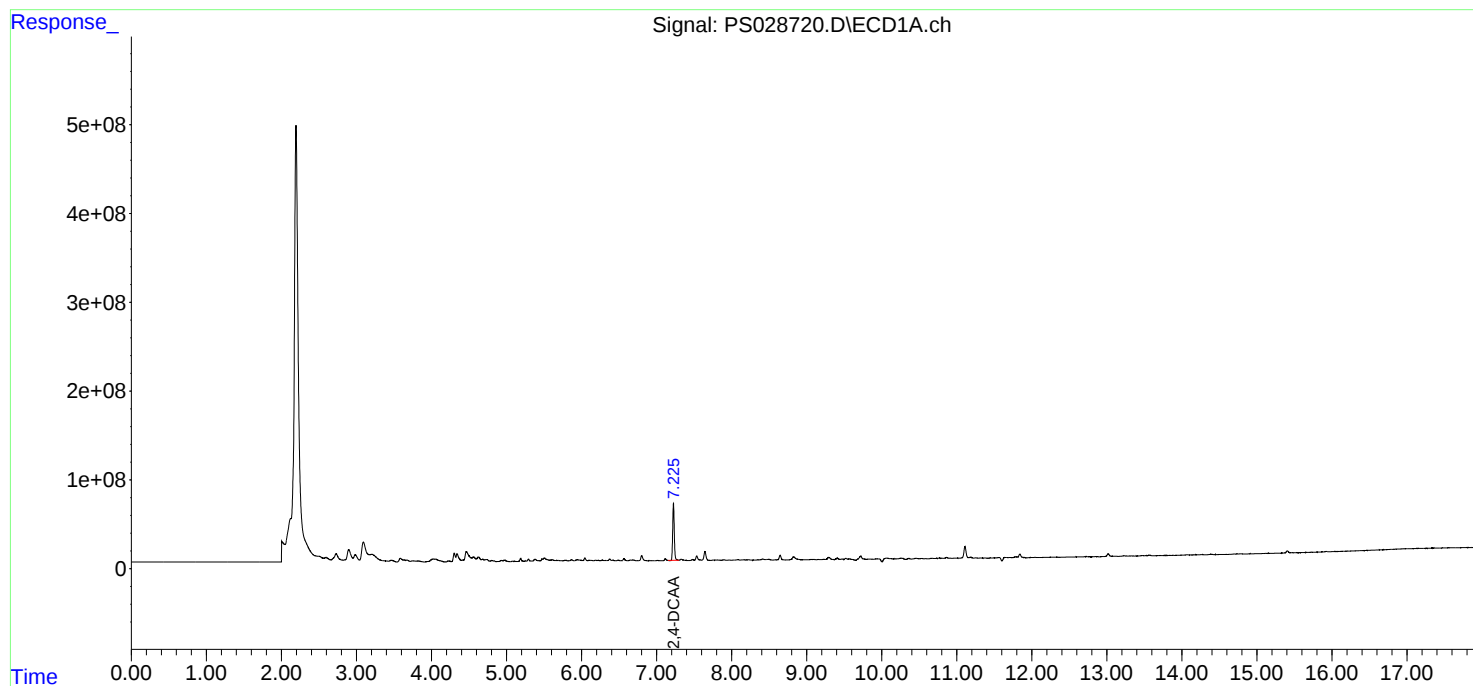
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028720.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 16:32
Operator : AR\AJ
Sample : P5117-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2

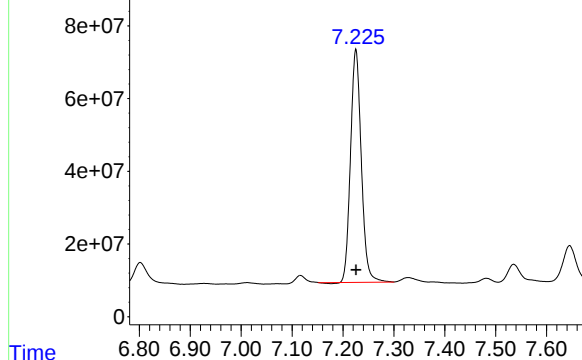
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:56:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
Response via : Initial Calibration
Integrator: ChemStation

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: PS028720.D\ECD1A.ch

#4 2,4-DCAA

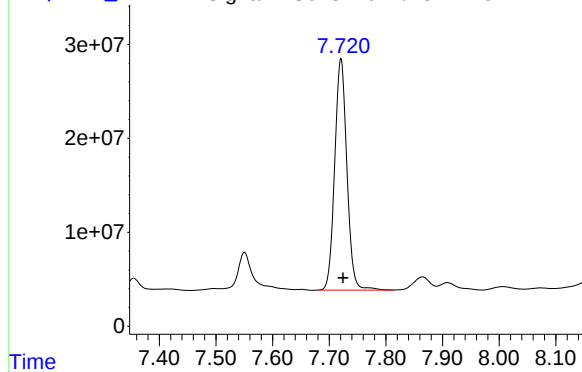


R.T.: 7.225 min
Delta R.T.: 0.000 min
Response: 939857349
Conc: 350.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2

Signal: PS028720.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.721 min
Delta R.T.: -0.004 min
Response: 368377714
Conc: 273.47 ng/ml

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/06/24
Client Sample ID:	PB165390TB	SDG No.:	P5117
Lab Sample ID:	PB165390TB	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028725.D	1	12/06/24 10:45	12/06/24 18:32	PB165455

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	15.0	U	4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	15.0	U	4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	264		32 - 138		53%	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\PS120624\
Data File : PS028725.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 18:32
Operator : AR\AJ
Sample : PB165390TB
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165390TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:58:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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	7.225	7.720	707.1E6	308.3E6	263.606	228.850

Target Compounds

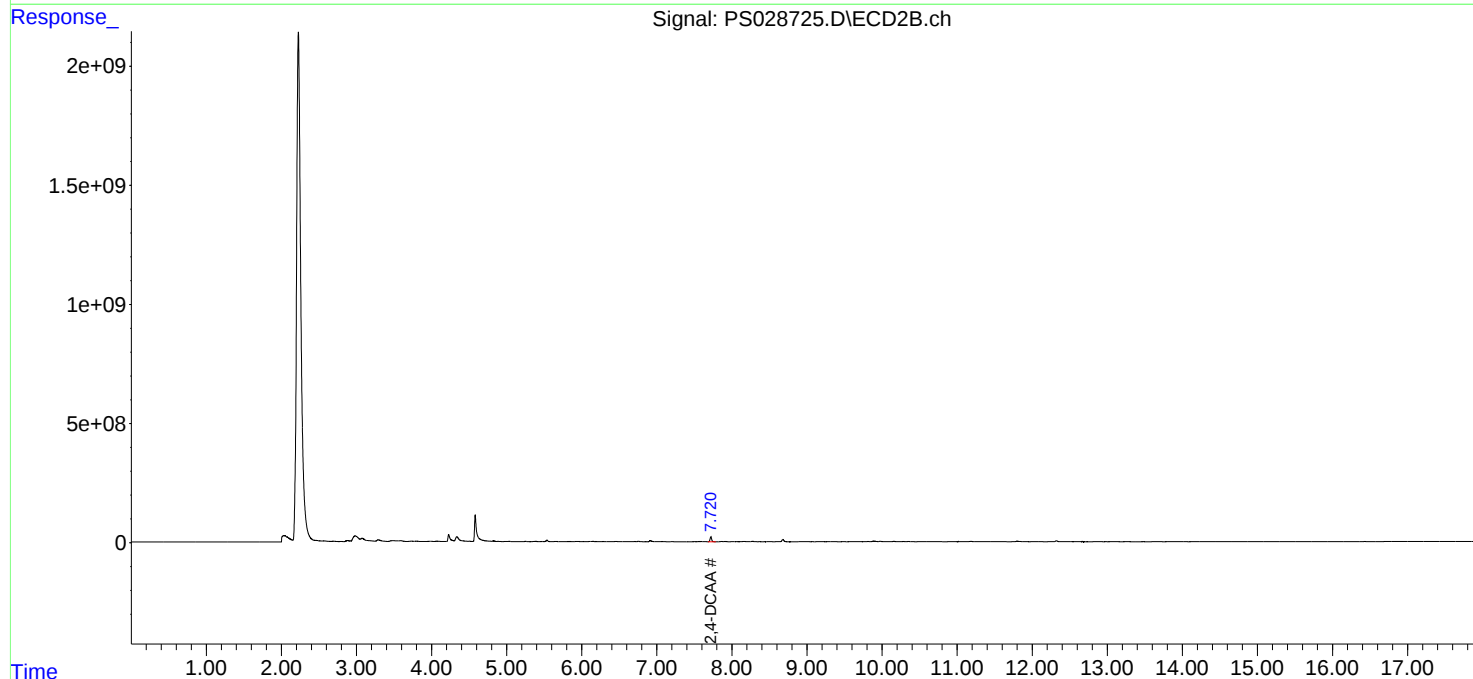
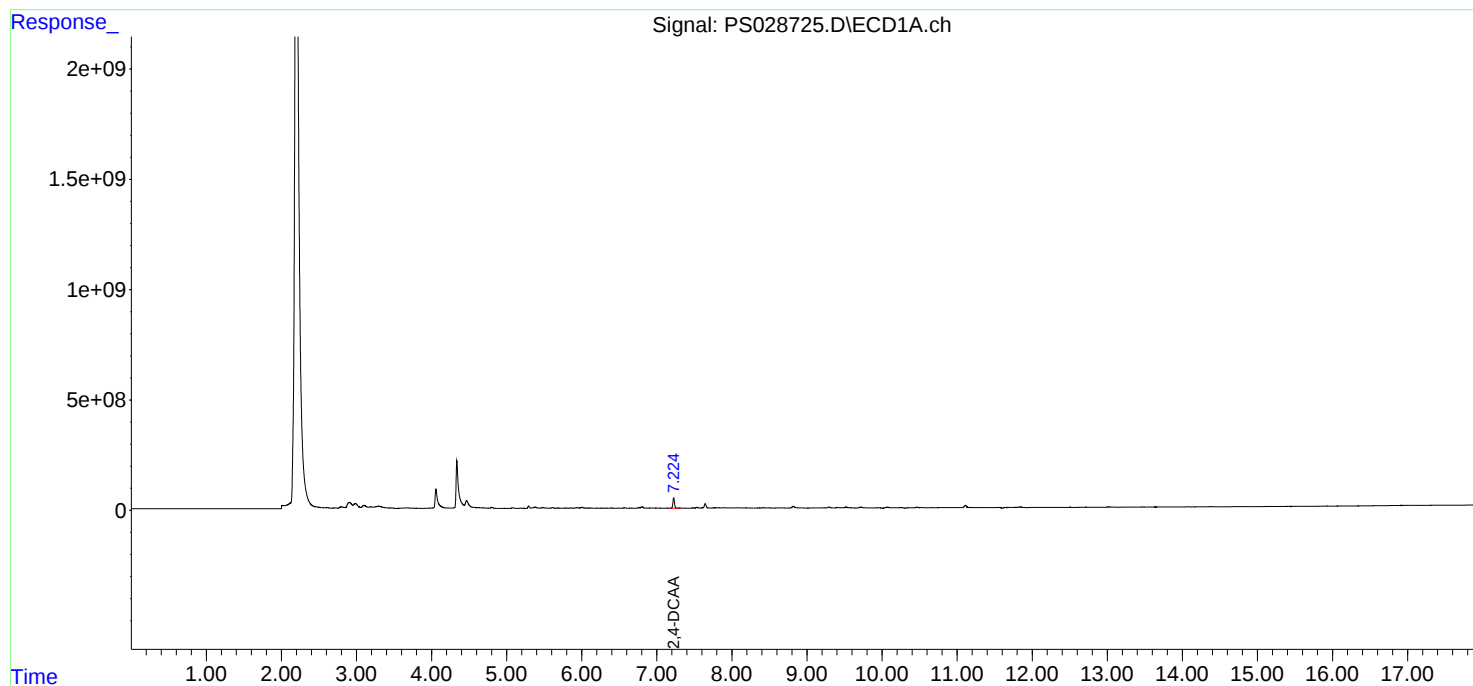
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

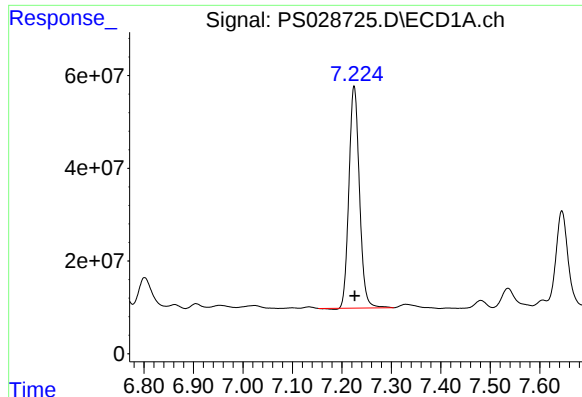
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028725.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 18:32
Operator : AR\AJ
Sample : PB165390TB
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165390TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:58:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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

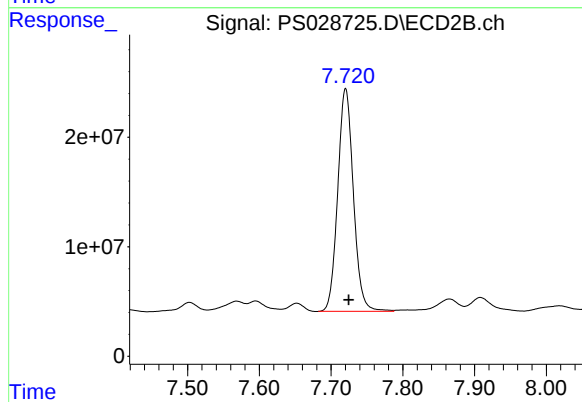




#4 2,4-DCAA

R.T.: 7.225 min
Delta R.T.: -0.001 min
Response: 707082244
Conc: 263.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165390TB



#4 2,4-DCAA

R.T.: 7.720 min
Delta R.T.: -0.004 min
Response: 308267068
Conc: 228.85 ng/ml



CALIBRATION SUMMARY

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

RETENTION TIMES OF INITIAL CALIBRATION

Contract: WEST04
Lab Code: CHEM **Case No.:** P5117 **SAS No.:** P5117 **SDG NO.:** P5117
Instrument ID: ECD_S **Calibration Date(s):** 11/26/2024 11/26/2024
Calibration Times: 12:48 14:25

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

LAB FILE ID:	RT 200 = <u>PS028632.D</u>	RT 500 = <u>PS028633.D</u>
	RT 750 = <u>PS028634.D</u>	RT 1000 = <u>PS028635.D</u>
		RT 1500 = <u>PS028636.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-TP(Silvex)	9.23	9.23	9.23	9.23	9.23	9.23	9.13	9.33
2,4-D	8.35	8.35	8.35	8.35	8.35	8.35	8.25	8.45
2,4-DCAA	7.23	7.23	7.23	7.23	7.23	7.23	7.13	7.33

RETENTION TIMES OF INITIAL CALIBRATION

Contract: WEST04
Lab Code: CHEM **Case No.:** P5117 **SAS No.:** P5117 **SDG NO.:** P5117
Instrument ID: ECD_S **Calibration Date(s):** 11/26/2024 11/26/2024
Calibration Times: 12:48 14:25

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

LAB FILE ID:	RT 200 = <u>PS028632.D</u>	RT 500 = <u>PS028633.D</u>
	RT 750 = <u>PS028634.D</u>	RT 1000 = <u>PS028635.D</u>
		RT 1500 = <u>PS028636.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-TP(Silvex)	9.87	9.87	9.87	9.87	9.87	9.87	9.77	9.97
2,4-D	8.97	8.97	8.97	8.97	8.97	8.97	8.87	9.07
2,4-DCAA	7.73	7.72	7.72	7.73	7.73	7.72	7.62	7.82

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: WEST04
Lab Code: CHEM **Case No.:** P5117 **SAS No.:** P5117 **SDG NO.:** P5117
Instrument ID: ECD_S **Calibration Date(s):** 11/26/2024 11/26/2024
Calibration Times: 12:48 14:25
GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 =	<u>PS028632.D</u>	CF 500 =	<u>PS028633.D</u>		
CF 750 =		<u>PS028634.D</u>	CF 1000 =	<u>PS028635.D</u>	CF 1500 =	<u>PS028636.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	20271400000	18910000000	18123500000	17499500000	16594600000	18279800000	8
2,4-D	3843050000	3484790000	3301520000	3180130000	3051260000	3372150000	9
2,4-DCAA	2980930000	2776190000	2647410000	2550090000	2457090000	2682340000	8

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: WEST04
Lab Code: CHEM **Case No.:** P5117 **SAS No.:** P5117 **SDG NO.:** P5117
Instrument ID: ECD_S **Calibration Date(s):** 11/26/2024 11/26/2024
Calibration Times: 12:48 14:25
GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028632.D</u>	CF 500 = <u>PS028633.D</u>				
CF 750 = <u>PS028634.D</u>		CF 1000 = <u>PS028635.D</u>	CF 1500 = <u>PS028636.D</u>				
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	9649960000	9698620000	9598260000	9499290000	9266470000	9542520000	2
2,4-D	1782570000	1704130000	1676500000	1652880000	1638760000	1690970000	3
2,4-DCAA	1414130000	1352070000	1334210000	1323400000	1311340000	1347030000	3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
 Data File : PS028632.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Nov 2024 12:48
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :Ankita Jodhani 11/27/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 26 14:01:34 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 13:56:20 2024
 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	7.225	7.725	596.2E6	282.8E6	209.342m	206.925
Target Compounds						
1) T Dalapon	2.630	2.687	531.5E6	407.6E6	183.455	185.641
2) T 3,5-DICHL...	6.399	6.681	800.4E6	379.1E6	200.243	190.612
3) T 4-Nitroph...	7.025	7.252	336.7E6	176.5E6	191.472	190.143
5) T DICAMBA	7.412	7.923	2313.7E6	1110.1E6	195.684	182.160
6) T MCPP	7.591	8.022	118.7E6	76224788	16.962	17.997
7) T MCPA	7.740	8.265	186.0E6	120.6E6	18.166	19.223
8) T DICHLORPROP	8.120	8.639	669.8E6	311.0E6	205.162	192.771
9) T 2,4-D	8.351	8.969	722.5E6	335.1E6	203.914	194.718
10) T Pentachlo...	8.648	9.495	9682.2E6	4480.0E6	201.091	191.001
11) T 2,4,5-TP ...	9.227	9.873	3851.6E6	1833.5E6	201.635	190.020
12) T 2,4,5-T	9.519	10.293	3956.2E6	1799.0E6	201.698	190.769
13) T 2,4-DB	10.094	10.859	728.6E6	220.6E6	199.916	192.399
14) T DINOSEB	11.303	11.238	3064.6E6	1182.6E6	197.062	187.415
15) T Picloram	11.112	12.331	5805.4E6	2191.0E6	192.141	174.833
16) T DCPA	11.596	12.281	5832.7E6	2127.2E6	202.702	190.123

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
Data File : PS028632.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Nov 2024 12:48
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

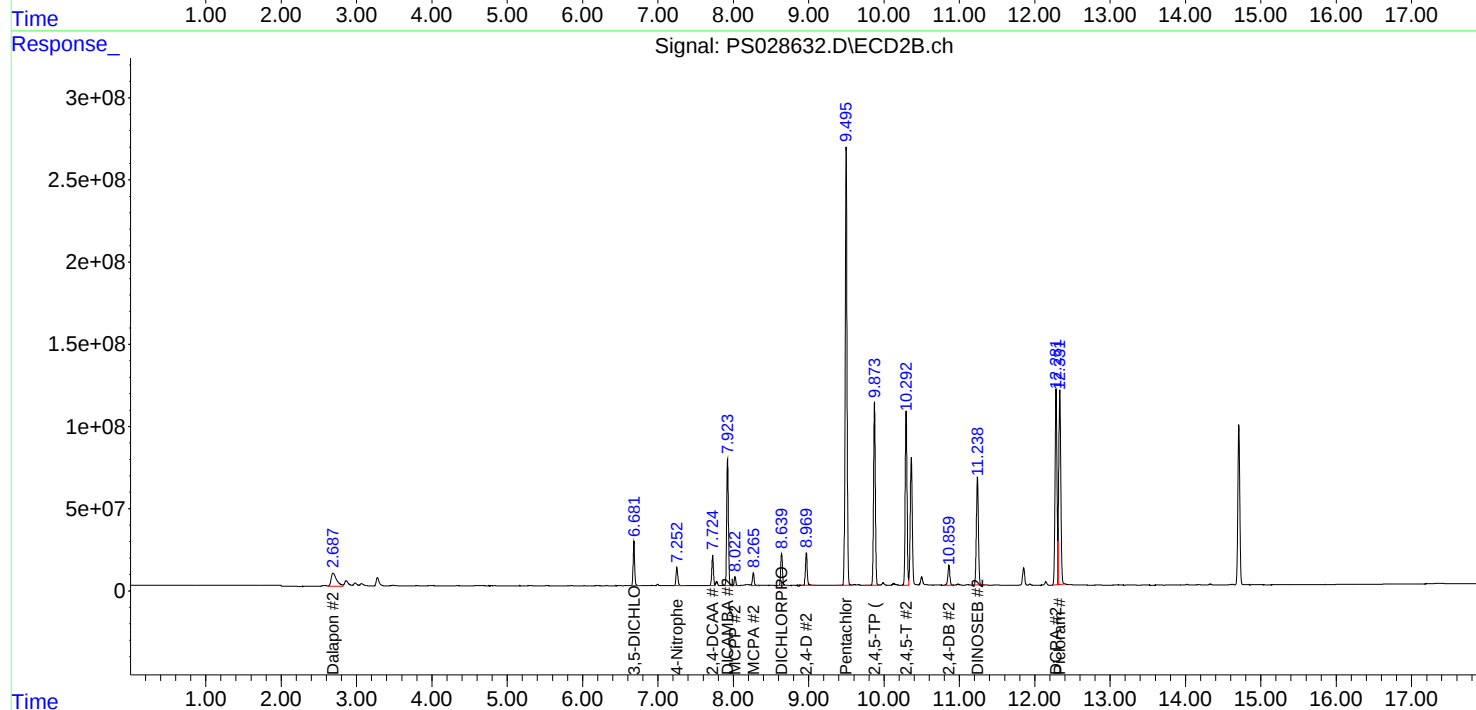
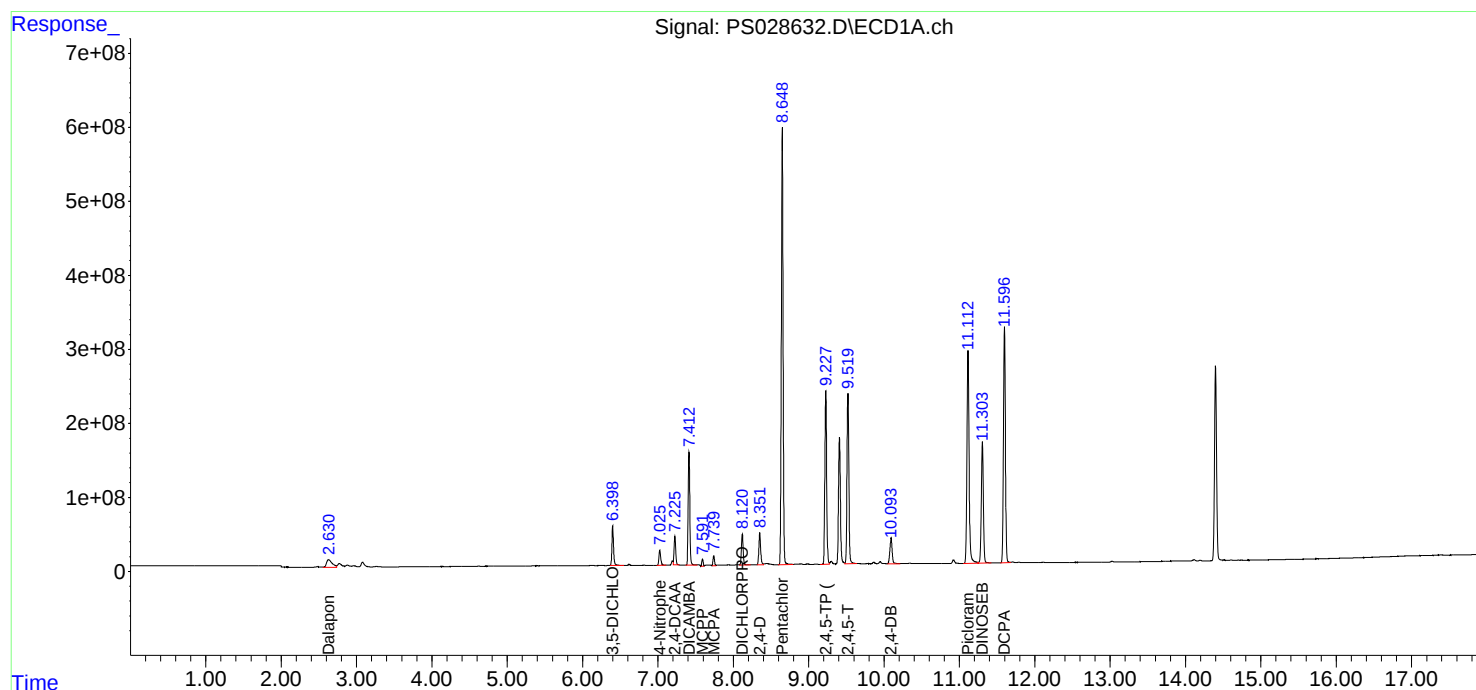
APPROVED

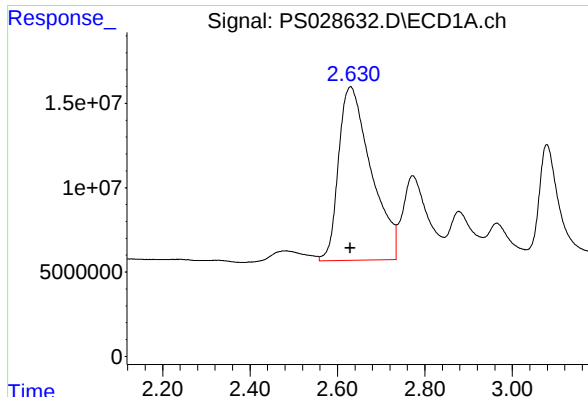
Reviewed By :Yogesh Patel 11/27/2024

Supervised By :Ankita Jodhani 11/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 26 14:01:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 13:56:20 2024
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.: 2.630 min
Delta R.T.: 0.000 min
Response: 531505918
Conc: 183.45 ng/ml

Instrument :

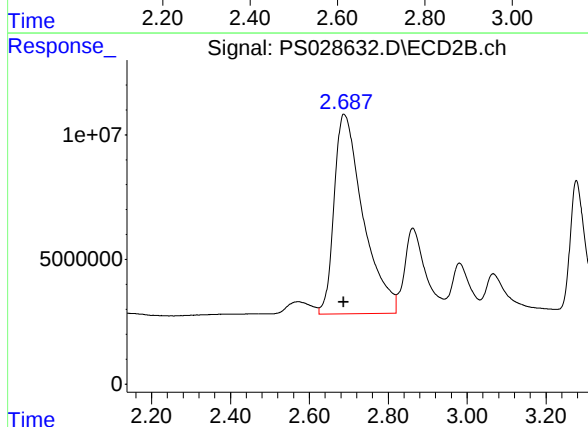
ECD_S

ClientSampleId :

HSTDICC200

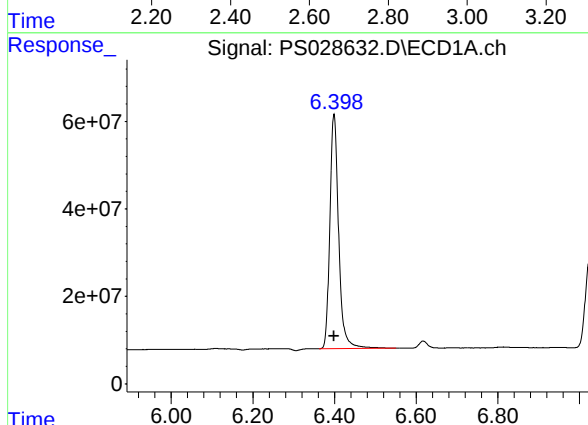
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :Ankita Jodhani 11/27/2024



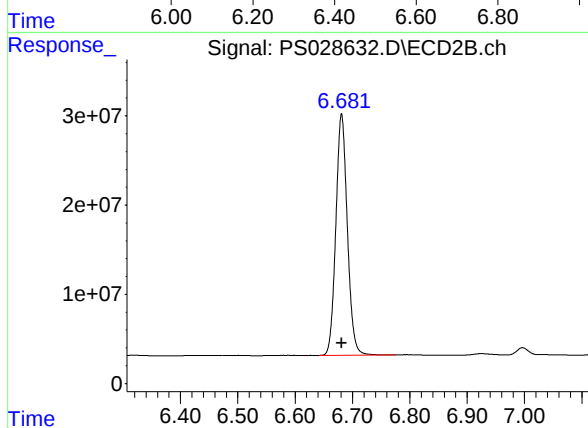
#1 Dalapon

R.T.: 2.687 min
Delta R.T.: 0.000 min
Response: 407591396
Conc: 185.64 ng/ml



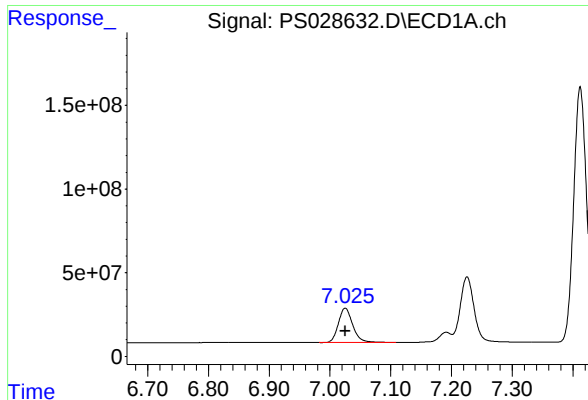
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.399 min
Delta R.T.: 0.000 min
Response: 800383739
Conc: 200.24 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.681 min
Delta R.T.: 0.000 min
Response: 379088878
Conc: 190.61 ng/ml



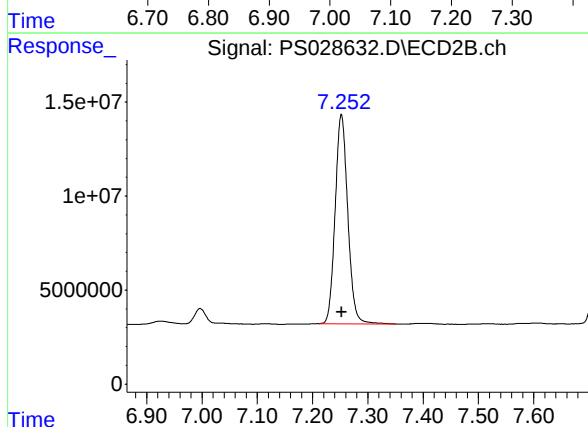
#3 4-Nitrophenol

R.T.: 7.025 min
Delta R.T.: 0.000 min
Response: 336669325
Conc: 191.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

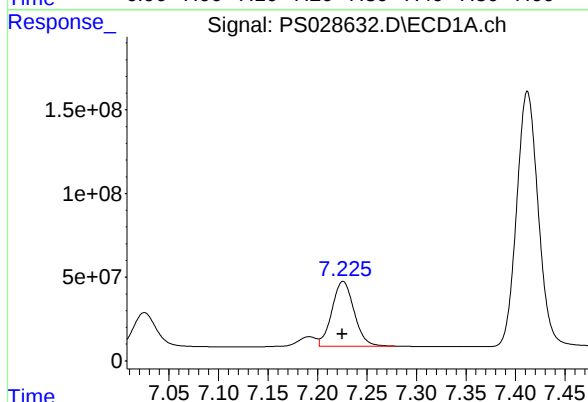
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :Ankita Jodhani 11/27/2024



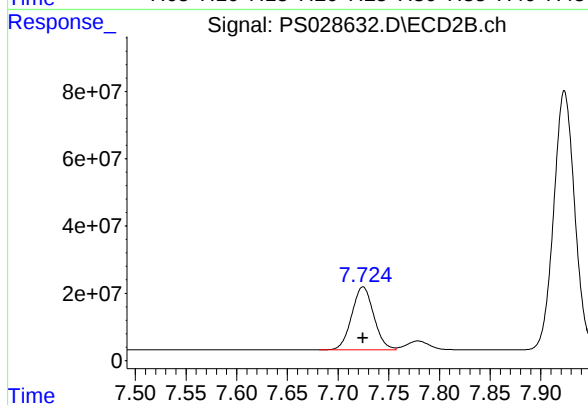
#3 4-Nitrophenol

R.T.: 7.252 min
Delta R.T.: 0.000 min
Response: 176471068
Conc: 190.14 ng/ml



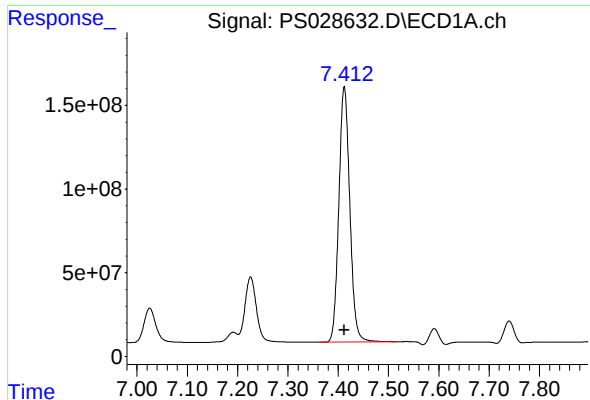
#4 2,4-DCAA

R.T.: 7.225 min
Delta R.T.: 0.000 min
Response: 596186068
Conc: 209.34 ng/ml m



#4 2,4-DCAA

R.T.: 7.725 min
Delta R.T.: 0.000 min
Response: 282825264
Conc: 206.92 ng/ml



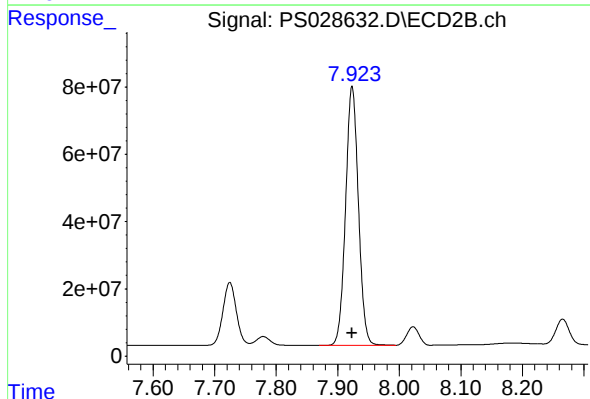
#5 DICAMBA

R.T.: 7.412 min
Delta R.T.: 0.000 min
Response: 2313682686
Conc: 195.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

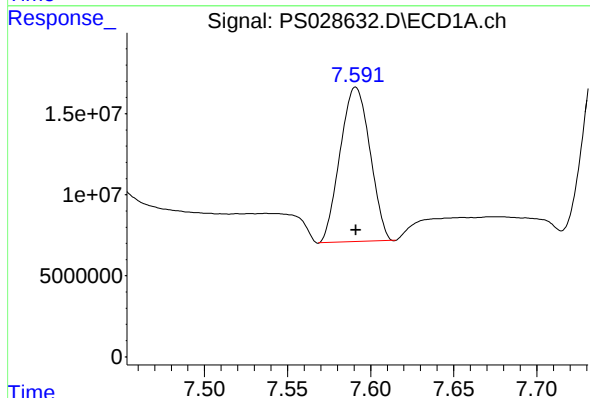
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :Ankita Jodhani 11/27/2024



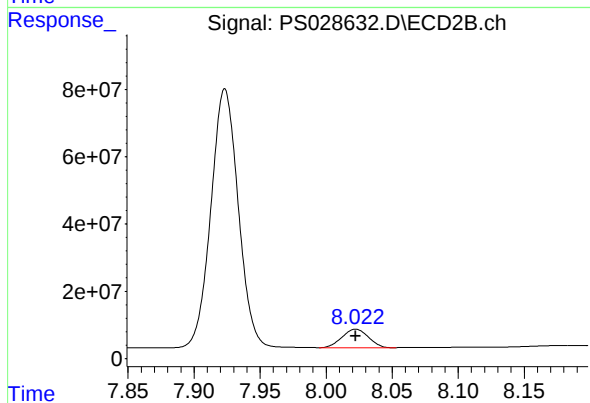
#5 DICAMBA

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 1110140608
Conc: 182.16 ng/ml



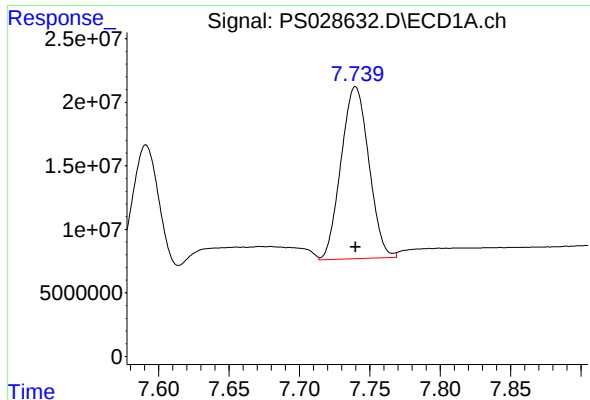
#6 MCPP

R.T.: 7.591 min
Delta R.T.: 0.000 min
Response: 118734787
Conc: 16.96 ug/ml



#6 MCPP

R.T.: 8.022 min
Delta R.T.: 0.000 min
Response: 76224788
Conc: 18.00 ug/ml



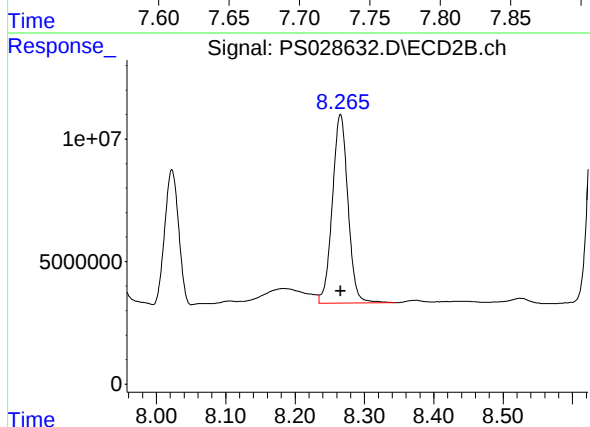
#7 MCPA

R.T.: 7.740 min
Delta R.T.: 0.000 min
Response: 185959363
Conc: 18.17 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

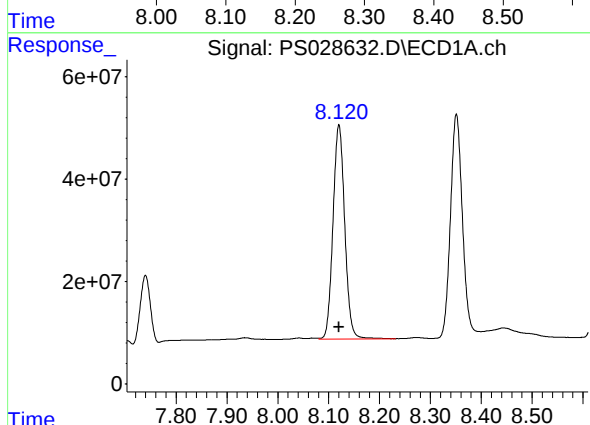
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :Ankita Jodhani 11/27/2024



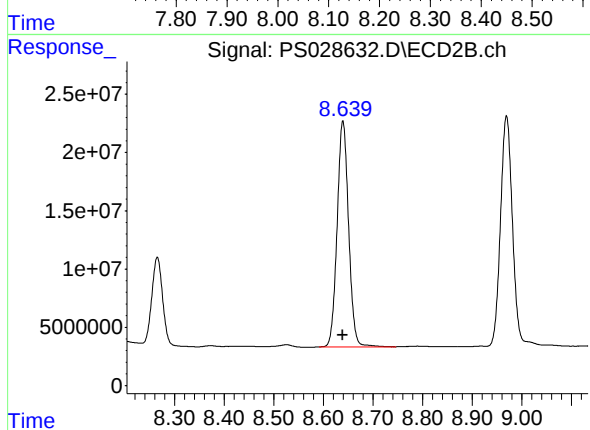
#7 MCPA

R.T.: 8.265 min
Delta R.T.: 0.000 min
Response: 120600312
Conc: 19.22 ug/ml



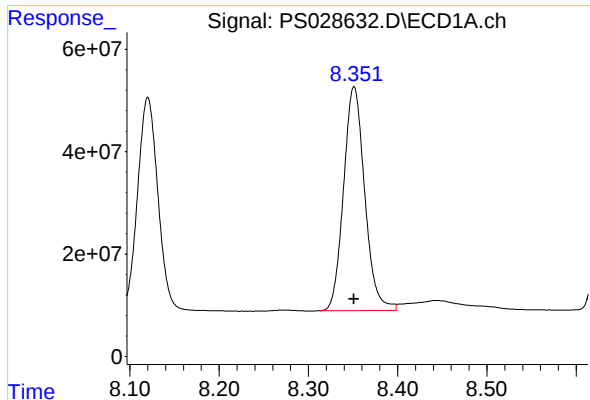
#8 DICHLORPROP

R.T.: 8.120 min
Delta R.T.: 0.000 min
Response: 669803146
Conc: 205.16 ng/ml



#8 DICHLORPROP

R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 310956668
Conc: 192.77 ng/ml



#9 2,4-D

R.T.: 8.351 min
Delta R.T.: 0.000 min
Response: 722492470
Conc: 203.91 ng/ml

Instrument :

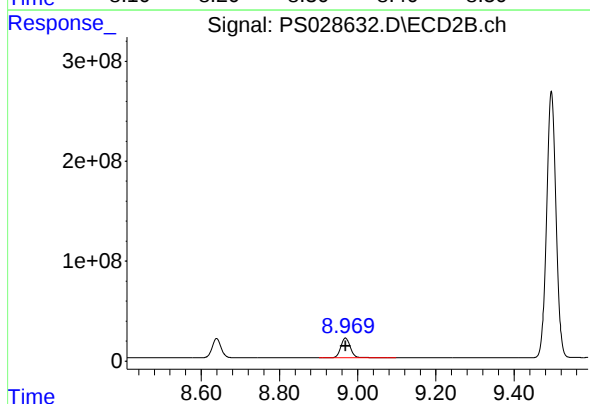
ECD_S

ClientSampleId :

HSTDICC200

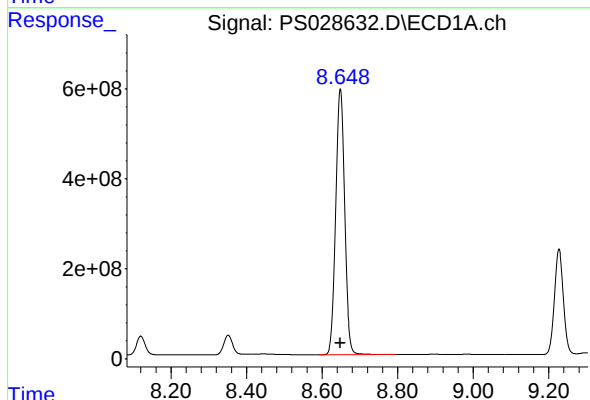
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :Ankita Jodhani 11/27/2024



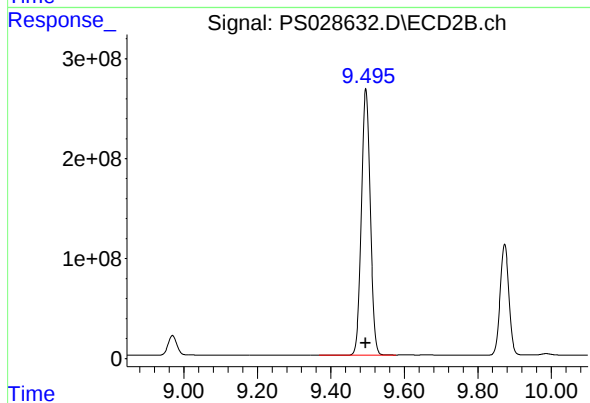
#9 2,4-D

R.T.: 8.969 min
Delta R.T.: 0.000 min
Response: 335123478
Conc: 194.72 ng/ml



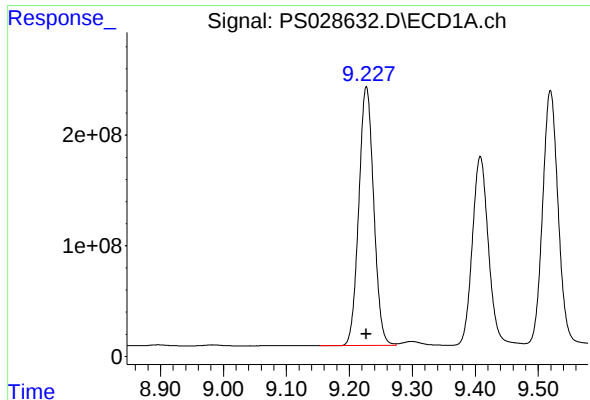
#10 Pentachlorophenol

R.T.: 8.648 min
Delta R.T.: 0.000 min
Response: 9682154401
Conc: 201.09 ng/ml



#10 Pentachlorophenol

R.T.: 9.495 min
Delta R.T.: 0.000 min
Response: 4479965532
Conc: 191.00 ng/ml



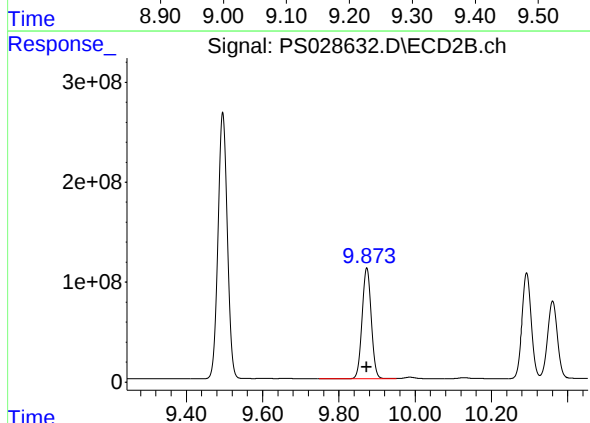
#11 2,4,5-TP (SILVEX)

R.T.: 9.227 min
Delta R.T.: 0.000 min
Response: 3851564126
Conc: 201.64 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

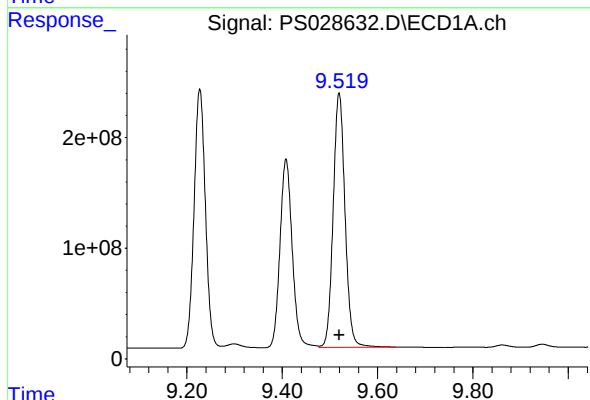
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :Ankita Jodhani 11/27/2024



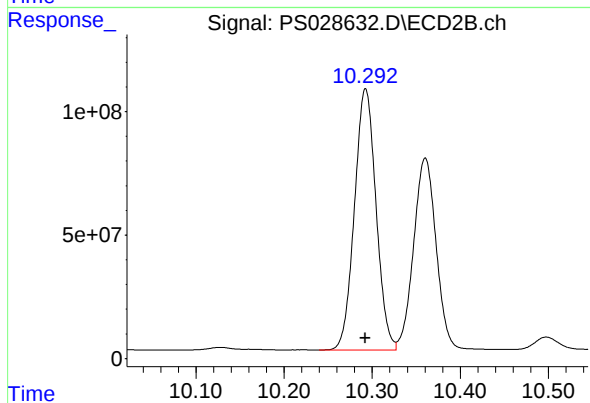
#11 2,4,5-TP (SILVEX)

R.T.: 9.873 min
Delta R.T.: 0.000 min
Response: 1833491790
Conc: 190.02 ng/ml



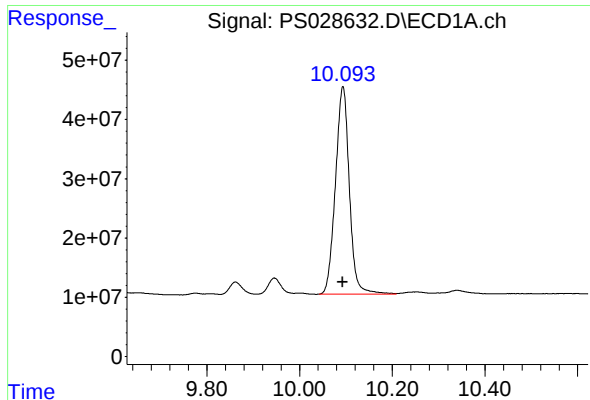
#12 2,4,5-T

R.T.: 9.519 min
Delta R.T.: 0.000 min
Response: 3956199350
Conc: 201.70 ng/ml



#12 2,4,5-T

R.T.: 10.293 min
Delta R.T.: 0.000 min
Response: 1798957032
Conc: 190.77 ng/ml



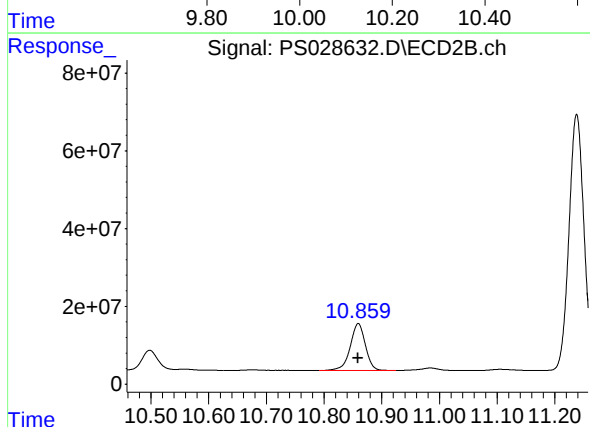
#13 2,4-DB

R.T.: 10.094 min
Delta R.T.: 0.000 min
Response: 728622483
Conc: 199.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

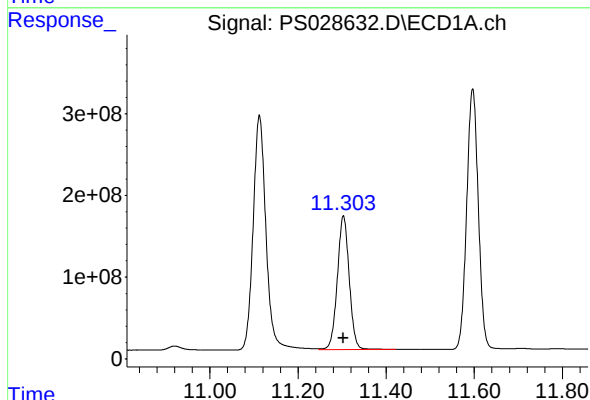
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :Ankita Jodhani 11/27/2024



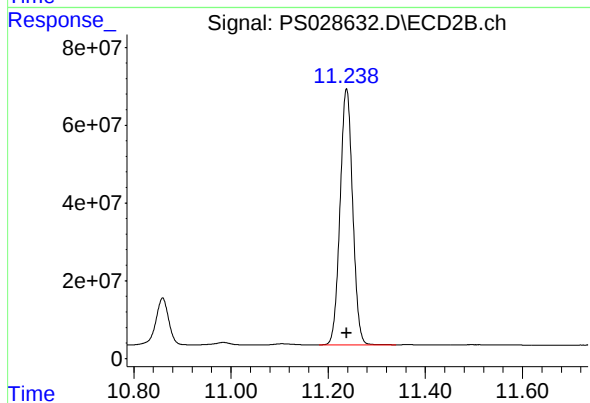
#13 2,4-DB

R.T.: 10.859 min
Delta R.T.: 0.000 min
Response: 220610040
Conc: 192.40 ng/ml



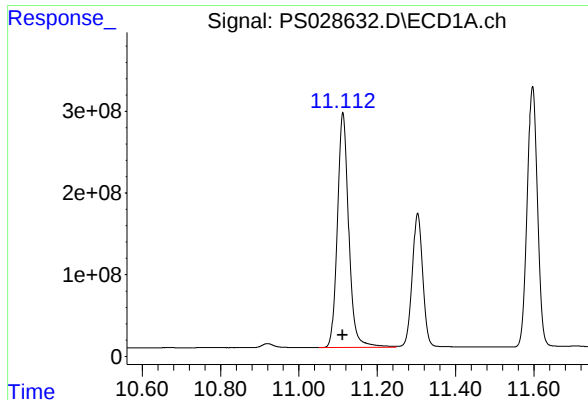
#14 DINOSEB

R.T.: 11.303 min
Delta R.T.: 0.000 min
Response: 3064581225
Conc: 197.06 ng/ml



#14 DINOSEB

R.T.: 11.238 min
Delta R.T.: 0.000 min
Response: 1182623872
Conc: 187.41 ng/ml



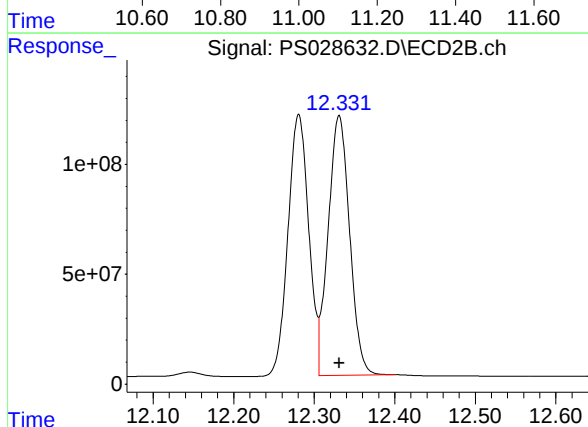
#15 Picloram

R.T.: 11.112 min
Delta R.T.: 0.000 min
Response: 5805389058
Conc: 192.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

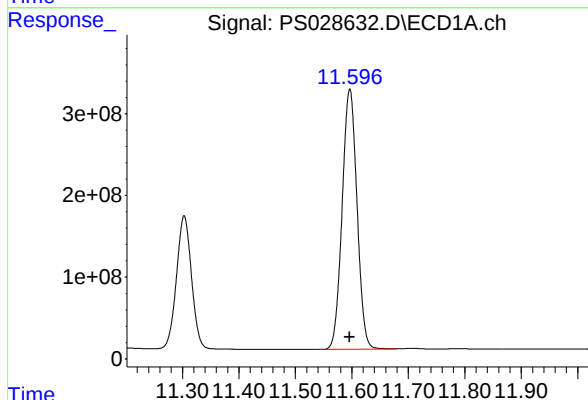
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :Ankita Jodhani 11/27/2024



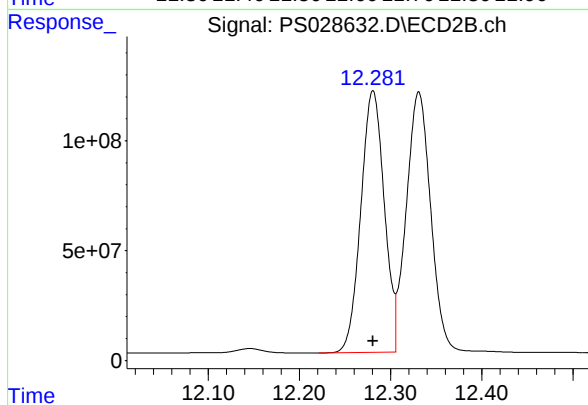
#15 Picloram

R.T.: 12.331 min
Delta R.T.: 0.000 min
Response: 2190959732
Conc: 174.83 ng/ml



#16 DCPA

R.T.: 11.596 min
Delta R.T.: 0.000 min
Response: 5832715053
Conc: 202.70 ng/ml



#16 DCPA

R.T.: 12.281 min
Delta R.T.: 0.000 min
Response: 2127209016
Conc: 190.12 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
 Data File : PS028633.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Nov 2024 13:13
 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: Nov 26 13:59:39 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 13:56:20 2024
 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	7.227	7.724	1388.1E6	676.0E6	511.872	503.324
Target Compounds							
1) T	Dalapon	2.630	2.688	1315.4E6	991.0E6	455.840	455.921
2) T	3,5-DICHL...	6.399	6.681	1825.5E6	918.5E6	474.893	467.624
3) T	4-Nitroph...	7.026	7.252	789.4E6	416.7E6	460.955	459.219
5) T	DICAMBA	7.413	7.924	5518.3E6	2890.6E6	476.459	467.048
6) T	MCPD	7.594	8.025	338.8E6	201.9E6	46.148	46.660
7) T	MCPA	7.744	8.269	479.6E6	288.3E6	46.309	46.738
8) T	DICHLORPROP	8.120	8.639	1500.6E6	751.3E6	481.628	471.766
9) T	2,4-D	8.351	8.968	1637.9E6	800.9E6	482.693	473.841
10) T	Pentachlo...	8.650	9.496	22770.3E6	11234.6E6	487.141	480.246
11) T	2,4,5-TP ...	9.228	9.873	8982.2E6	4606.8E6	485.087	477.470
12) T	2,4,5-T	9.520	10.292	9226.6E6	4494.5E6	485.340	477.578
13) T	2,4-DB	10.092	10.858	1710.7E6	541.2E6	481.951	474.971
14) T	DINOSEB	11.303	11.237	7249.0E6	2972.6E6	477.647	470.349
15) T	Picloram	11.112	12.329	14399.5E6	6106.2E6	479.281	468.558
16) T	DCPA	11.597	12.280	13727.8E6	5412.9E6	490.753	481.432

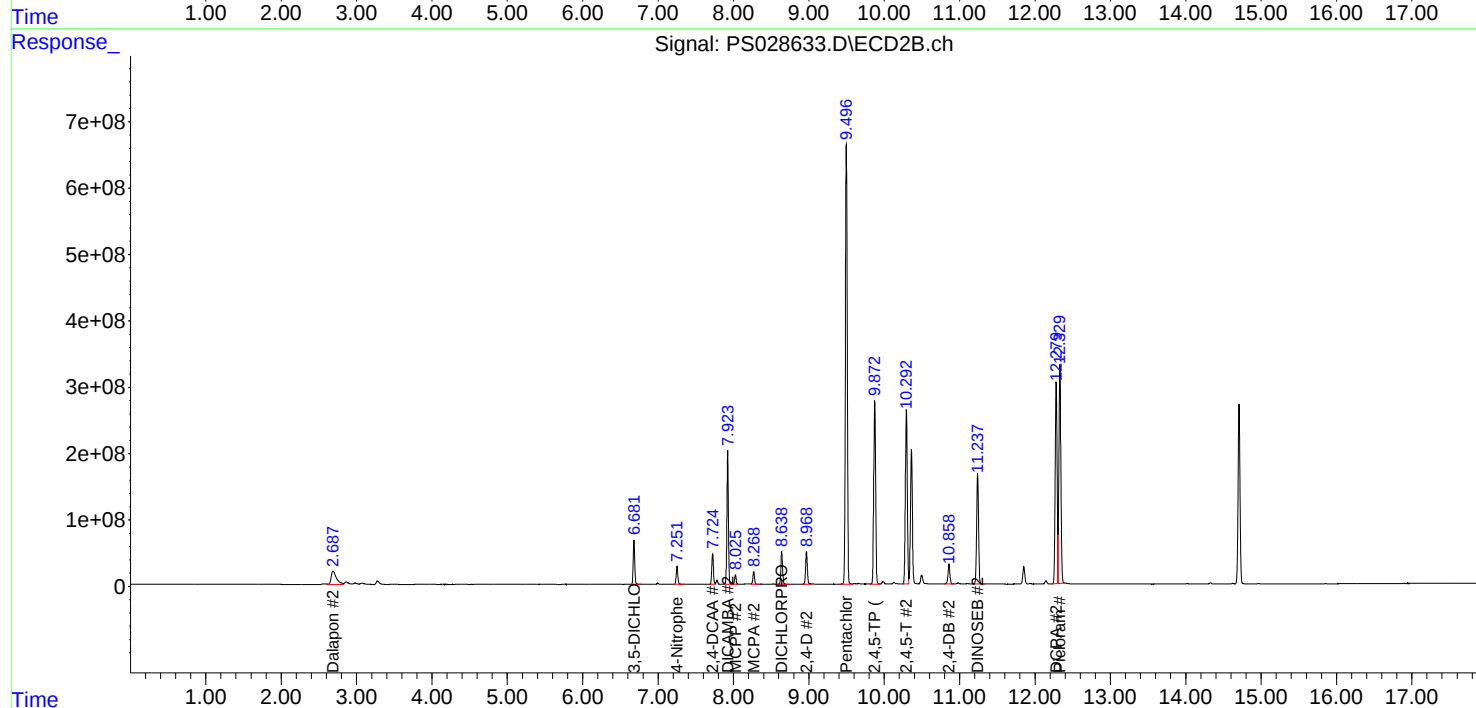
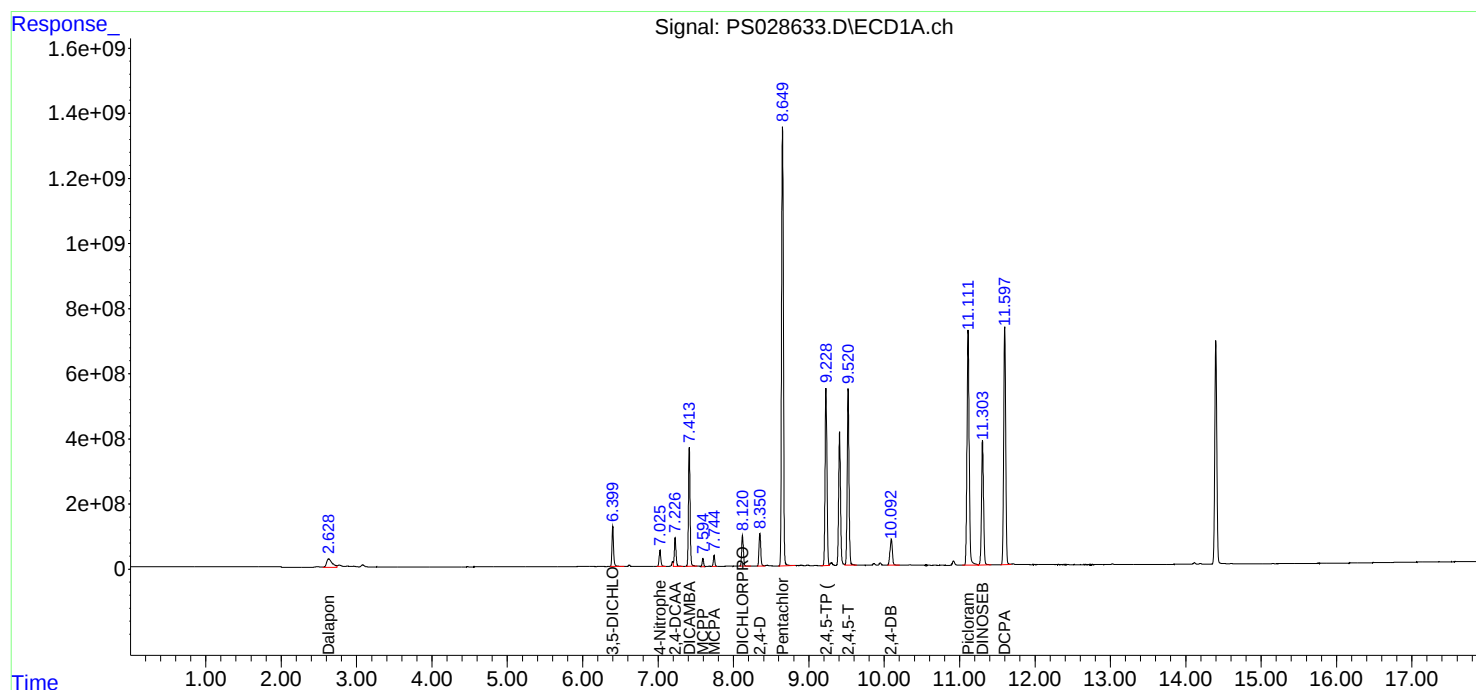
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

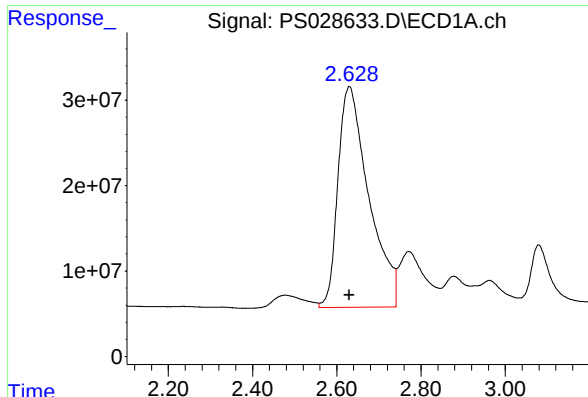
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
Data File : PS028633.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Nov 2024 13:13
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 26 13:59:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 13:56:20 2024
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

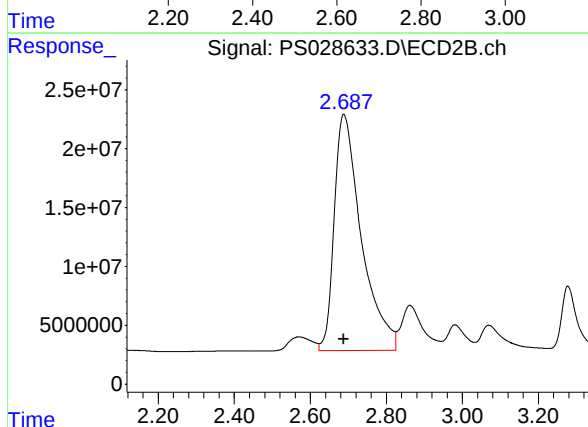




#1 Dalapon

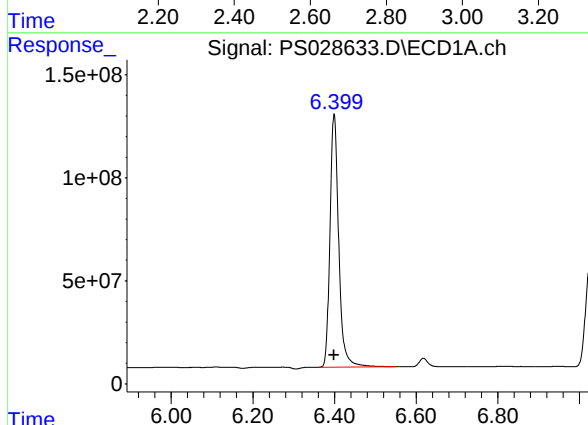
R.T.: 2.630 min
Delta R.T.: 0.000 min
Response: 1315384691
Conc: 455.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



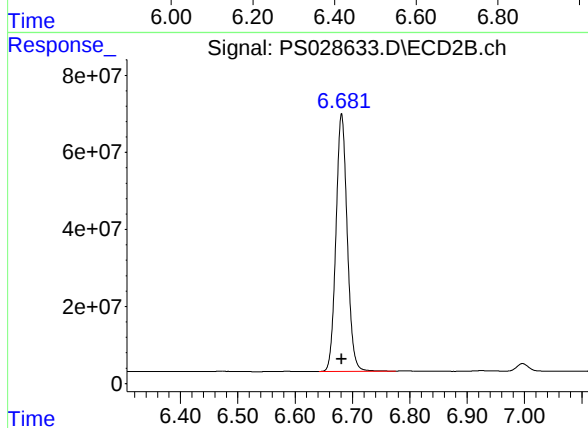
#1 Dalapon

R.T.: 2.688 min
Delta R.T.: 0.000 min
Response: 990999355
Conc: 455.92 ng/ml



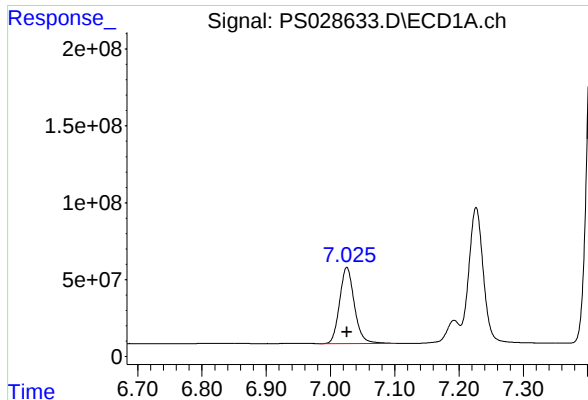
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.399 min
Delta R.T.: 0.000 min
Response: 1825496802
Conc: 474.89 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

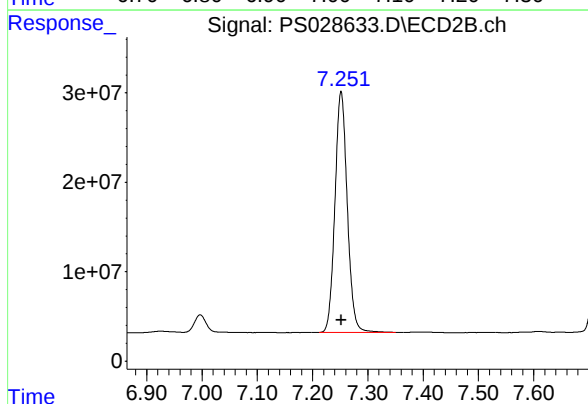
R.T.: 6.681 min
Delta R.T.: 0.000 min
Response: 918478096
Conc: 467.62 ng/ml



#3 4-Nitrophenol

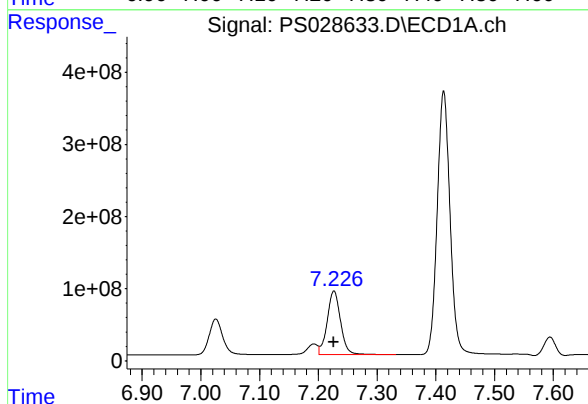
R.T.: 7.026 min
Delta R.T.: 0.000 min
Response: 789414521
Conc: 460.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



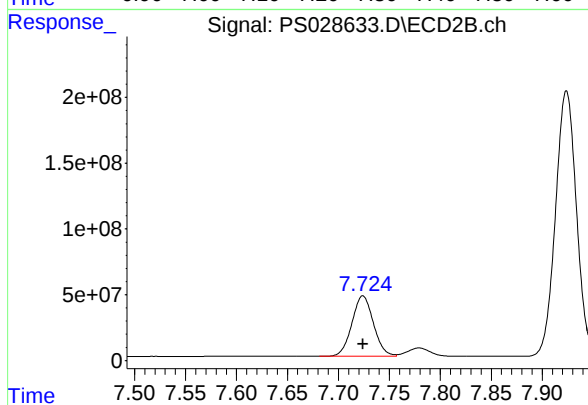
#3 4-Nitrophenol

R.T.: 7.252 min
Delta R.T.: 0.000 min
Response: 416666171
Conc: 459.22 ng/ml



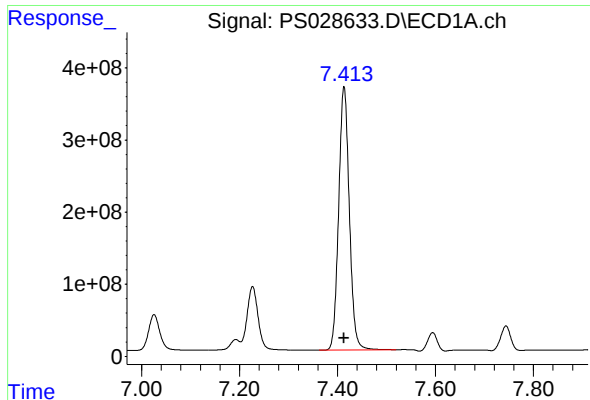
#4 2,4-DCAA

R.T.: 7.227 min
Delta R.T.: 0.000 min
Response: 1388095673
Conc: 511.87 ng/ml



#4 2,4-DCAA

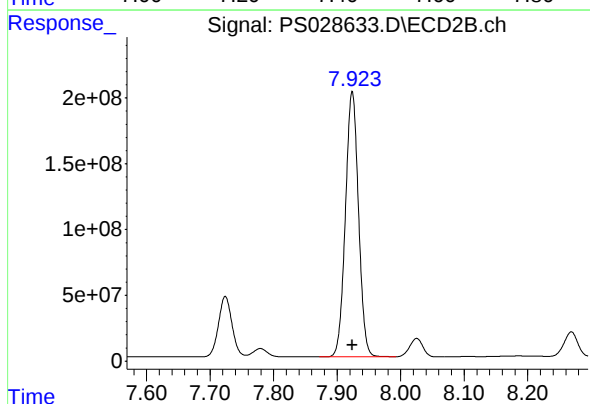
R.T.: 7.724 min
Delta R.T.: 0.000 min
Response: 676034916
Conc: 503.32 ng/ml



#5 DICAMBA

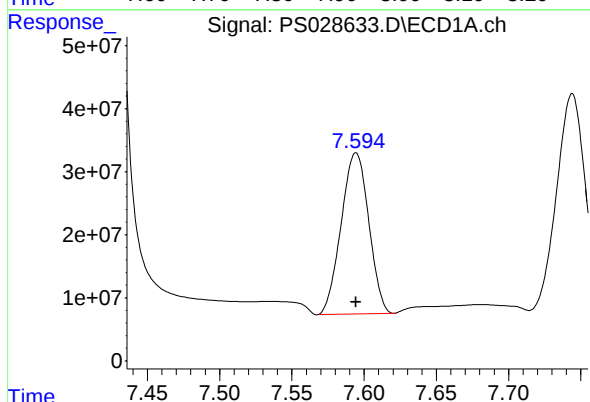
R.T.: 7.413 min
Delta R.T.: 0.000 min
Response: 5518297579
Conc: 476.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



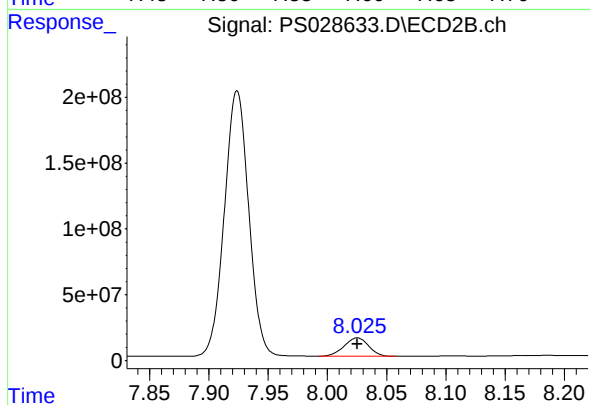
#5 DICAMBA

R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 2890555335
Conc: 467.05 ng/ml



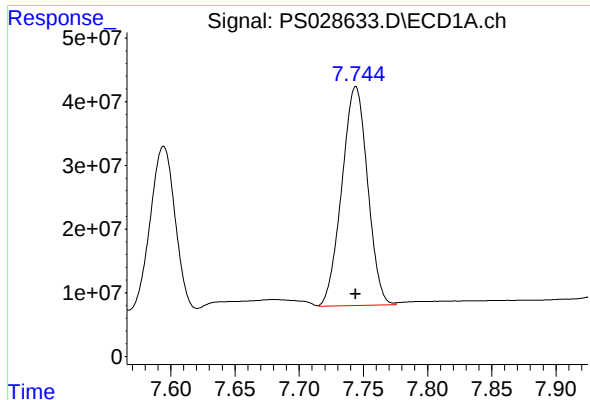
#6 MCPP

R.T.: 7.594 min
Delta R.T.: 0.000 min
Response: 338829888
Conc: 46.15 ug/ml



#6 MCPP

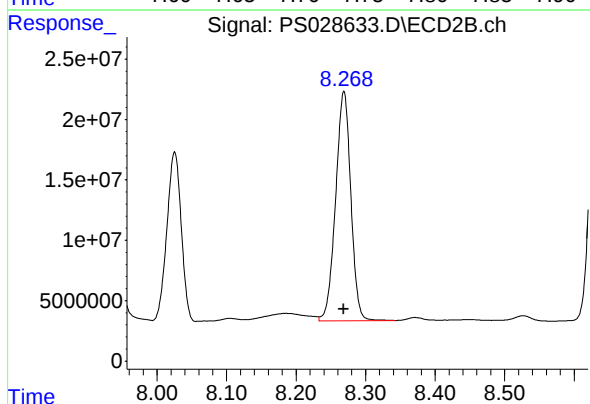
R.T.: 8.025 min
Delta R.T.: 0.000 min
Response: 201850430
Conc: 46.66 ug/ml



#7 MCPA

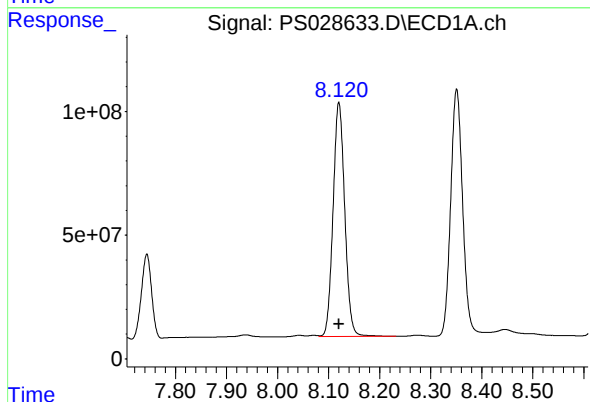
R.T.: 7.744 min
Delta R.T.: 0.000 min
Response: 479579809
Conc: 46.31 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



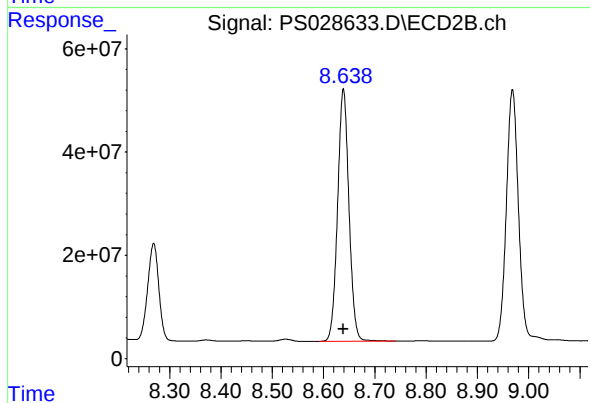
#7 MCPA

R.T.: 8.269 min
Delta R.T.: 0.000 min
Response: 288308319
Conc: 46.74 ug/ml



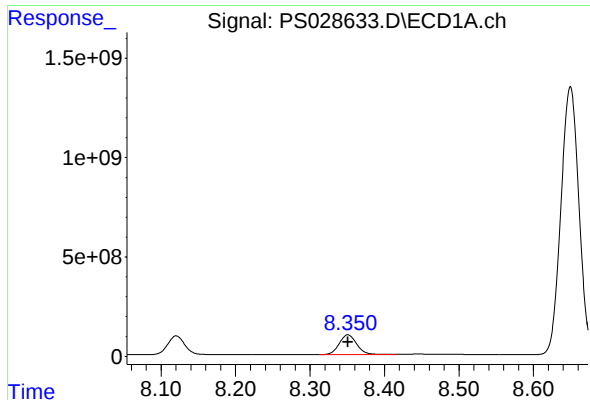
#8 DICHLORPROP

R.T.: 8.120 min
Delta R.T.: 0.000 min
Response: 1500626364
Conc: 481.63 ng/ml



#8 DICHLORPROP

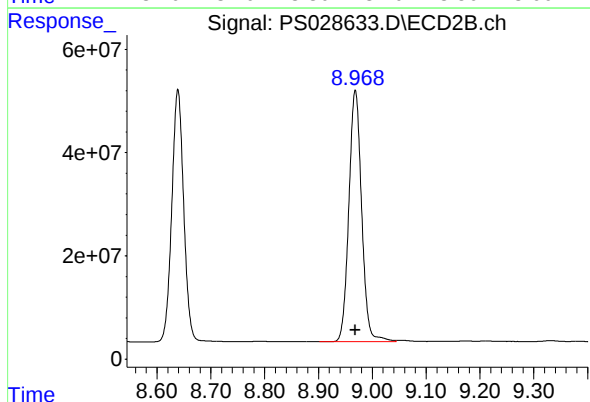
R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 751342050
Conc: 471.77 ng/ml



#9 2,4-D

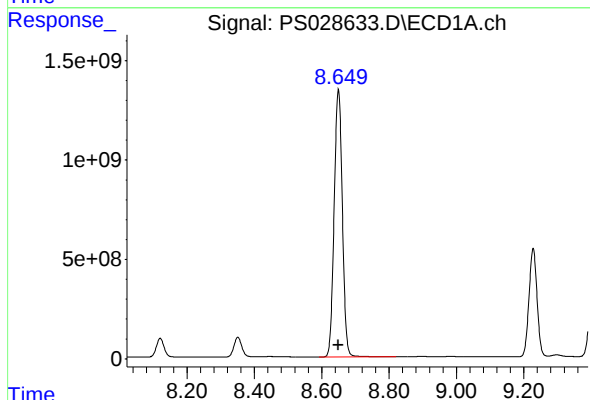
R.T.: 8.351 min
Delta R.T.: 0.000 min
Response: 1637852704
Conc: 482.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



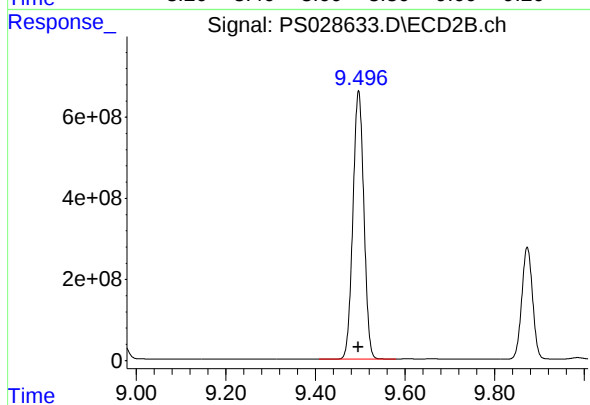
#9 2,4-D

R.T.: 8.968 min
Delta R.T.: 0.000 min
Response: 800941548
Conc: 473.84 ng/ml



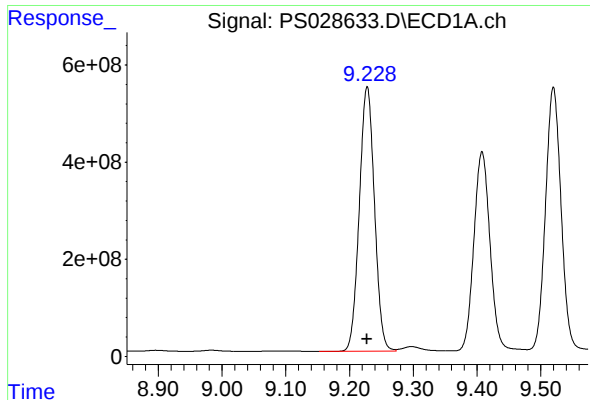
#10 Pentachlorophenol

R.T.: 8.650 min
Delta R.T.: 0.000 min
Response: 22770314861
Conc: 487.14 ng/ml



#10 Pentachlorophenol

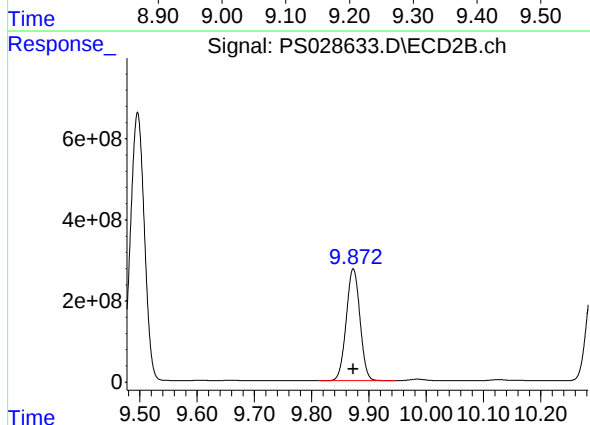
R.T.: 9.496 min
Delta R.T.: 0.000 min
Response: 11234613027
Conc: 480.25 ng/ml



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

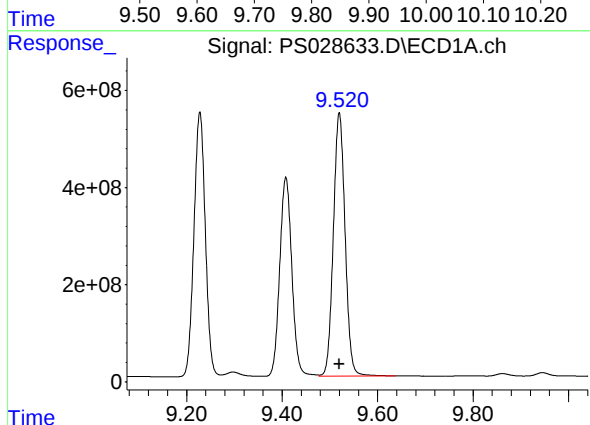
R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 8982234936
Conc: 485.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



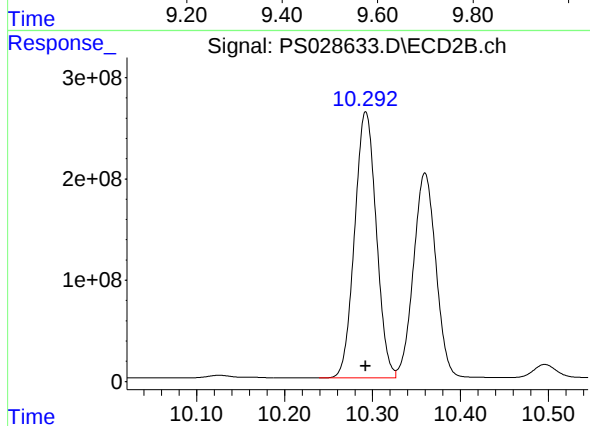
#11 2,4,5-TP (SILVEX)

R.T.: 9.873 min
Delta R.T.: 0.000 min
Response: 4606843818
Conc: 477.47 ng/ml



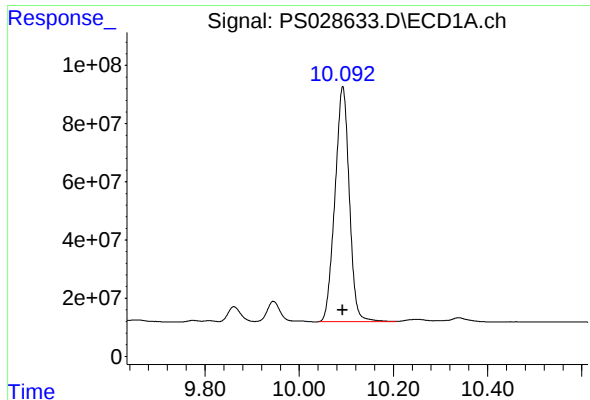
#12 2,4,5-T

R.T.: 9.520 min
Delta R.T.: 0.000 min
Response: 9226634087
Conc: 485.34 ng/ml



#12 2,4,5-T

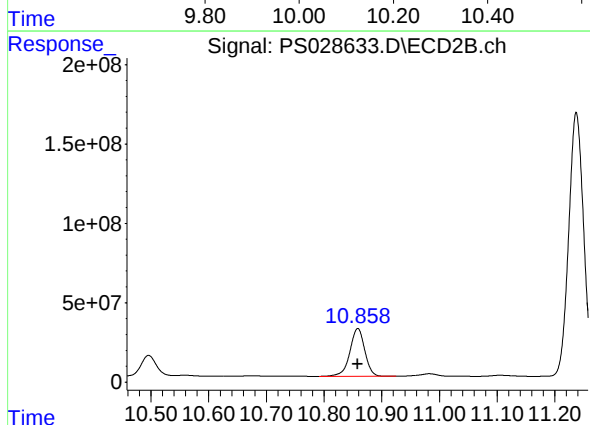
R.T.: 10.292 min
Delta R.T.: 0.000 min
Response: 4494457682
Conc: 477.58 ng/ml



#13 2,4-DB

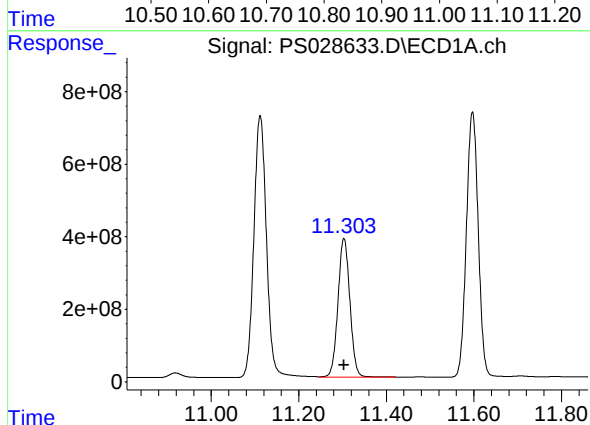
R.T.: 10.092 min
Delta R.T.: 0.000 min
Response: 1710697329
Conc: 481.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



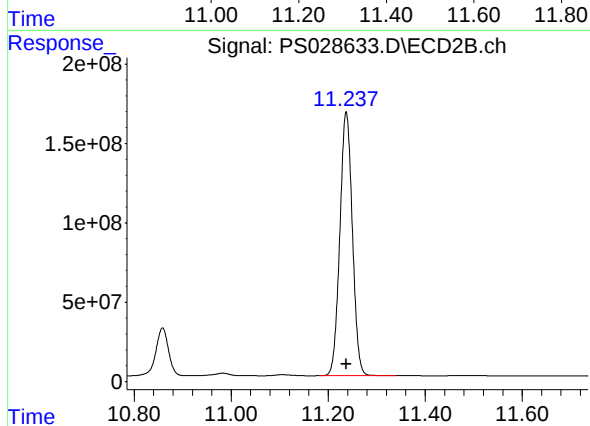
#13 2,4-DB

R.T.: 10.858 min
Delta R.T.: 0.000 min
Response: 541177287
Conc: 474.97 ng/ml



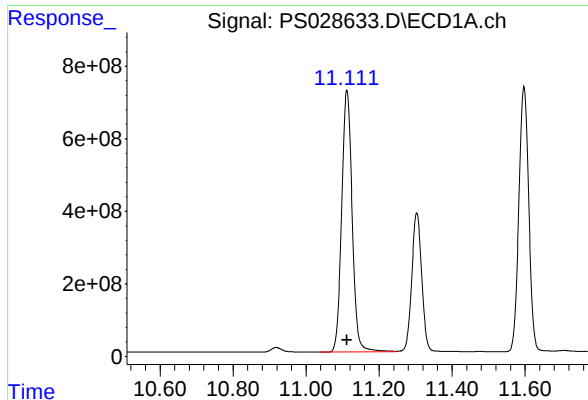
#14 DINOSEB

R.T.: 11.303 min
Delta R.T.: 0.000 min
Response: 7249002688
Conc: 477.65 ng/ml



#14 DINOSEB

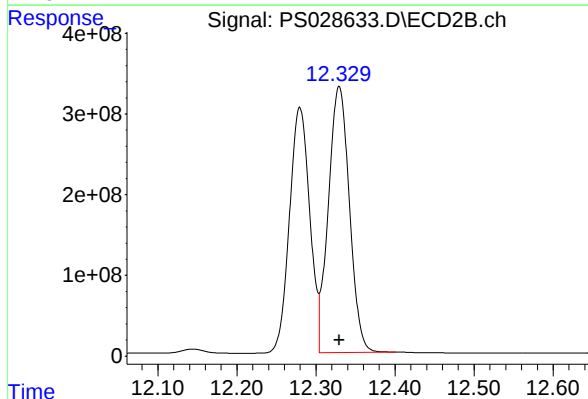
R.T.: 11.237 min
Delta R.T.: 0.000 min
Response: 2972610200
Conc: 470.35 ng/ml



#15 Picloram

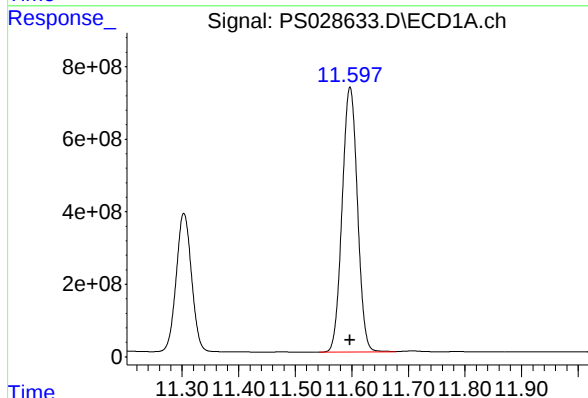
R.T.: 11.112 min
Delta R.T.: 0.000 min
Response: 14399516573
Conc: 479.28 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



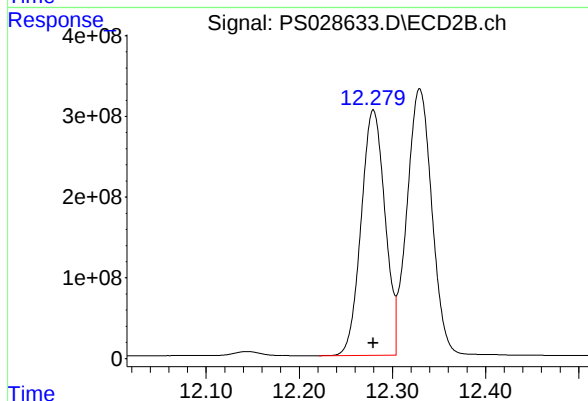
#15 Picloram

R.T.: 12.329 min
Delta R.T.: 0.000 min
Response: 6106195259
Conc: 468.56 ng/ml



#16 DCPA

R.T.: 11.597 min
Delta R.T.: 0.000 min
Response: 13727763257
Conc: 490.75 ng/ml



#16 DCPA

R.T.: 12.280 min
Delta R.T.: 0.000 min
Response: 5412879477
Conc: 481.43 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
 Data File : PS028634.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Nov 2024 13:37
 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: Nov 26 13:57:10 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 13:56:20 2024
 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	7.226	7.724	1985.6E6	1000.7E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.630	2.690	1965.8E6	1480.5E6	682.500	682.500
2) T	3,5-DICHL...	6.399	6.681	2624.2E6	1362.3E6	697.500	697.500
3) T	4-Nitroph...	7.025	7.252	1153.5E6	613.5E6	682.500	682.500
5) T	DICAMBA	7.413	7.924	8053.0E6	4390.6E6	705.000	705.000
6) T	MCPD	7.596	8.027	527.0E6	307.2E6	70.500	70.500
7) T	MCPA	7.746	8.271	725.3E6	428.1E6	69.750	69.750
8) T	DICHLORPROP	8.121	8.639	2142.3E6	1118.6E6	705.000	705.000
9) T	2,4-D	8.351	8.969	2327.6E6	1181.9E6	705.000	705.000
10) T	Pentachlo...	8.649	9.496	32453.0E6	16483.8E6	712.500	712.500
11) T	2,4,5-TP ...	9.228	9.873	12913.0E6	6838.8E6	712.500	712.500
12) T	2,4,5-T	9.520	10.293	13250.2E6	6668.9E6	712.500	712.500
13) T	2,4-DB	10.092	10.858	2492.0E6	811.9E6	712.500	712.500
14) T	DINOSEB	11.303	11.238	10525.4E6	4452.3E6	705.000	705.000
15) T	Picloram	11.112	12.331	21213.4E6	9411.1E6	712.500	712.500
16) T	DCPA	11.597	12.281	19689.3E6	8071.0E6	720.000	720.000

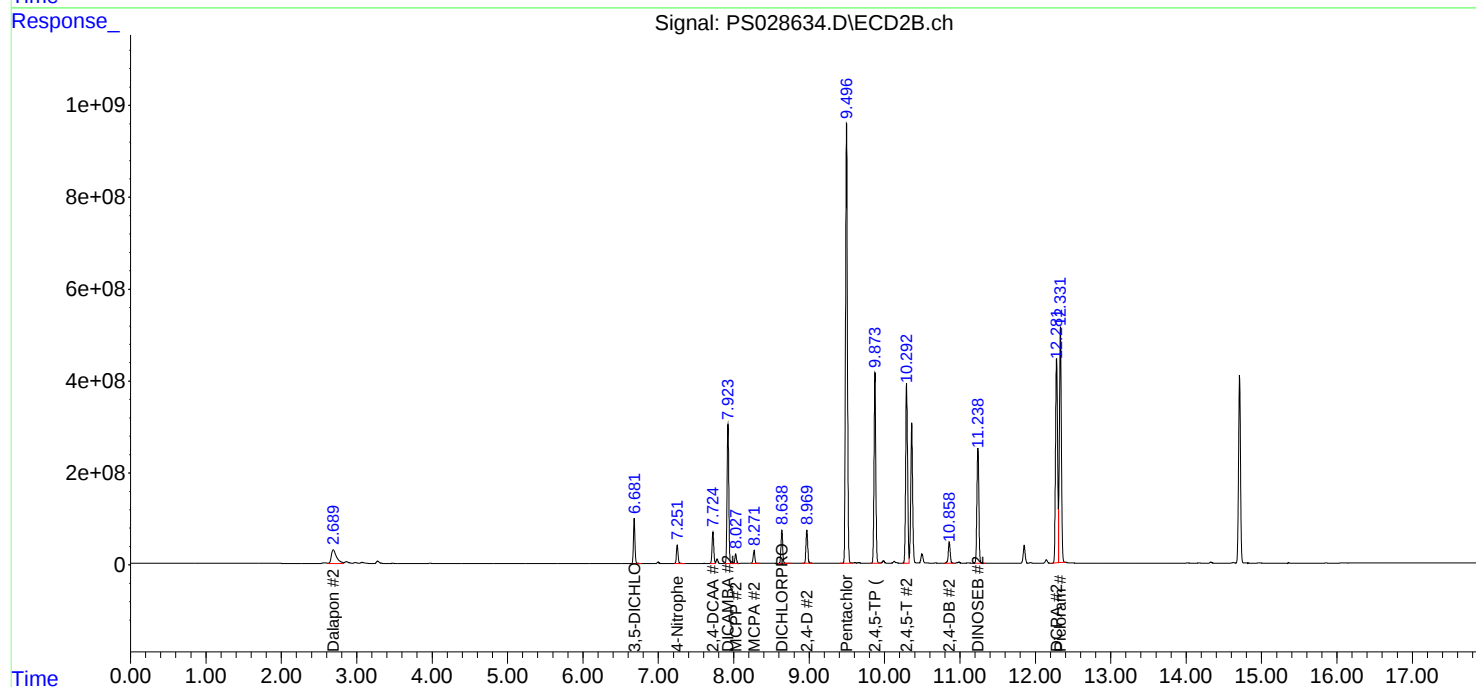
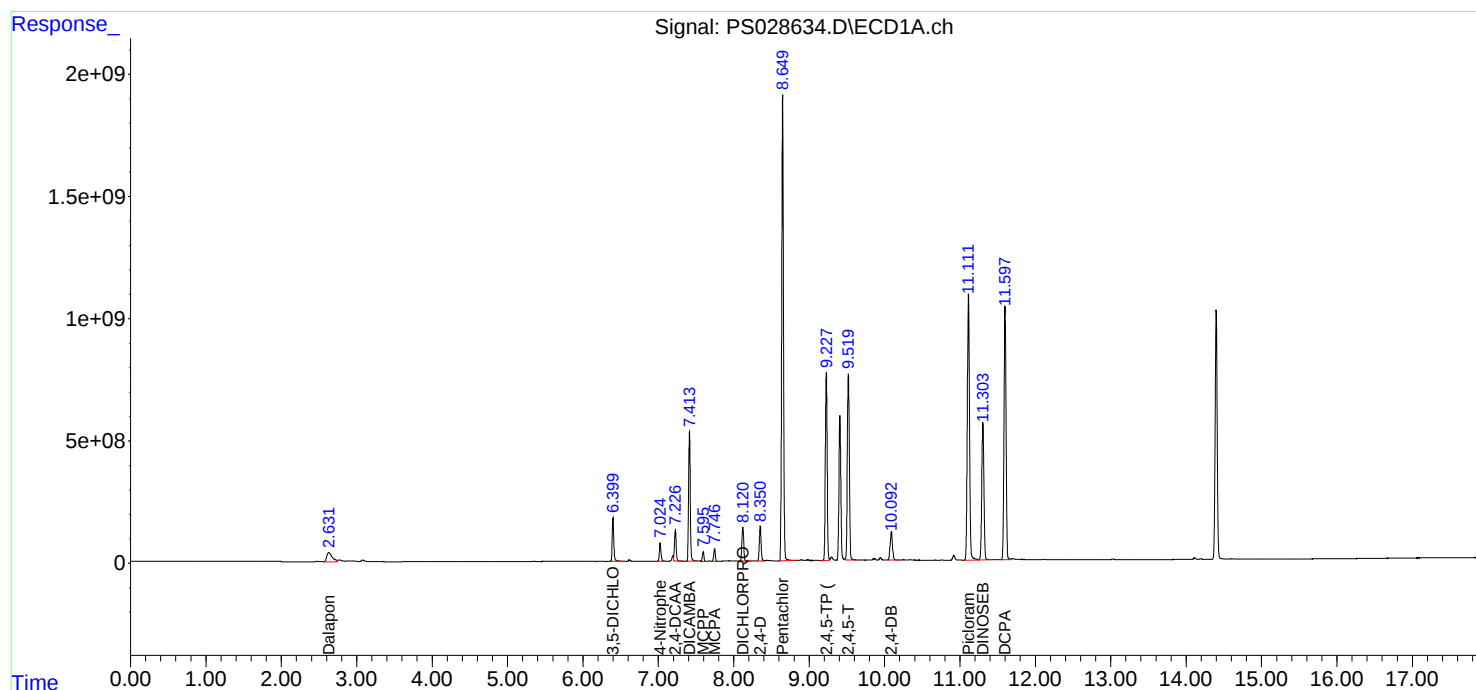
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

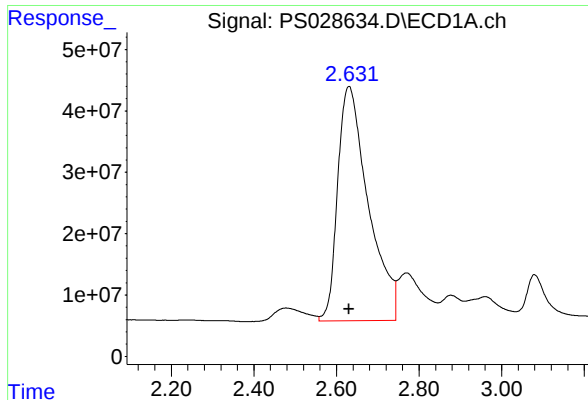
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
Data File : PS028634.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Nov 2024 13:37
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 26 13:57:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 13:56:20 2024
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

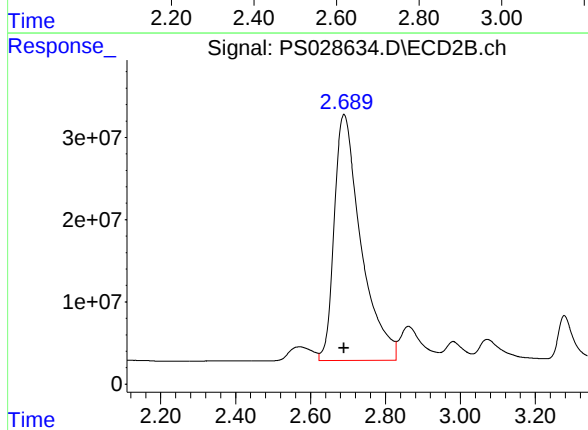




#1 Dalapon

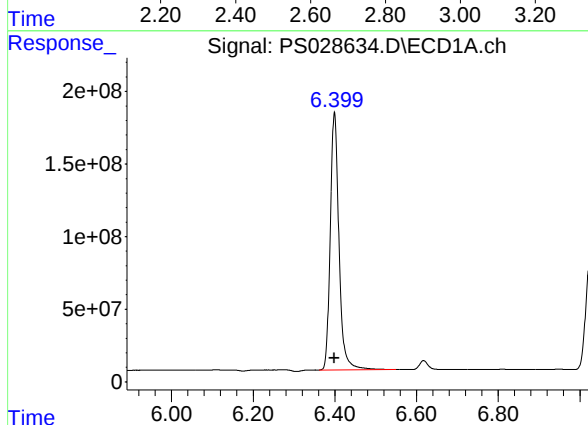
R.T.: 2.630 min
Delta R.T.: 0.000 min
Response: 1965803482
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



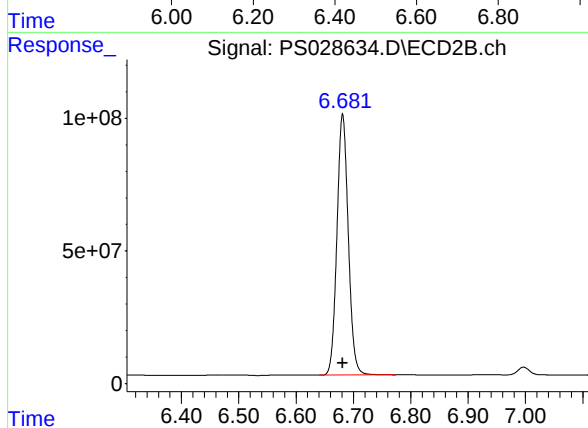
#1 Dalapon

R.T.: 2.690 min
Delta R.T.: 0.000 min
Response: 1480492417
Conc: 682.50 ng/ml



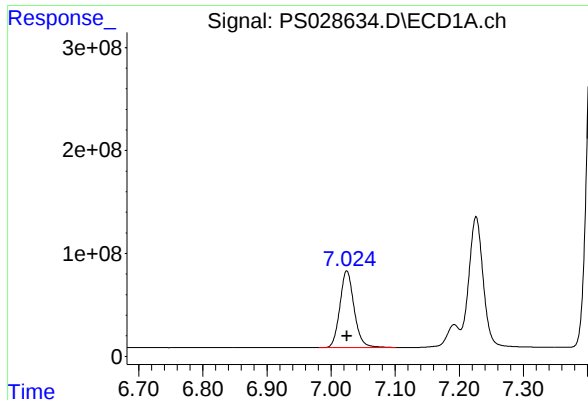
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.399 min
Delta R.T.: 0.000 min
Response: 2624153862
Conc: 697.50 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

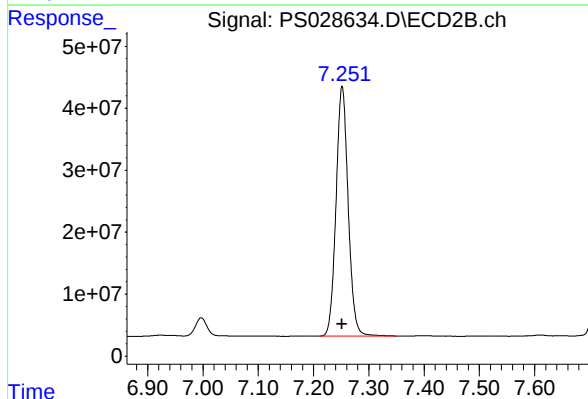
R.T.: 6.681 min
Delta R.T.: 0.000 min
Response: 1362254488
Conc: 697.50 ng/ml



#3 4-Nitrophenol

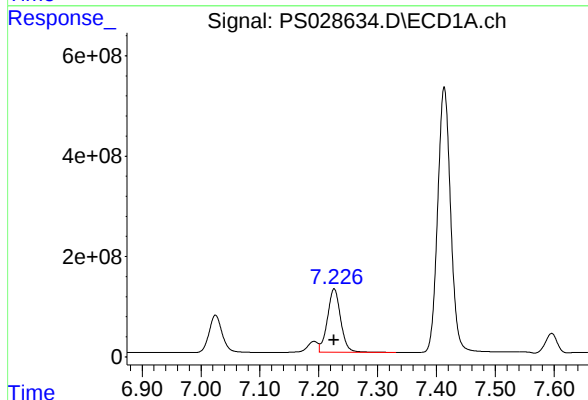
R.T.: 7.025 min
Delta R.T.: 0.000 min
Response: 1153527730
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



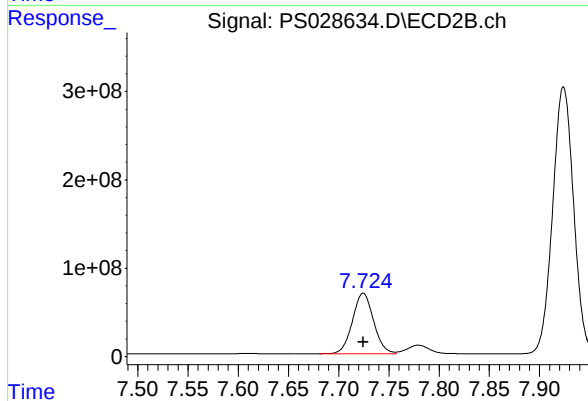
#3 4-Nitrophenol

R.T.: 7.252 min
Delta R.T.: 0.000 min
Response: 613513998
Conc: 682.50 ng/ml



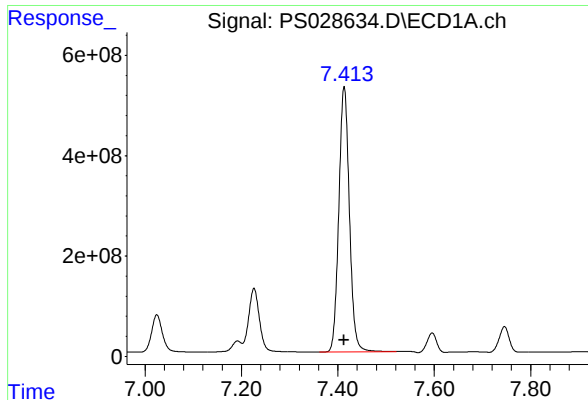
#4 2,4-DCAA

R.T.: 7.226 min
Delta R.T.: 0.000 min
Response: 1985559671
Conc: 750.00 ng/ml



#4 2,4-DCAA

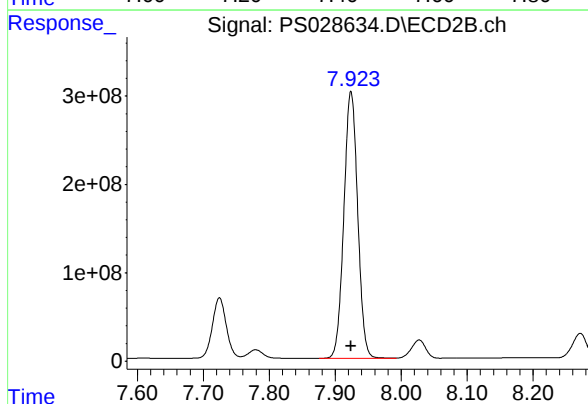
R.T.: 7.724 min
Delta R.T.: 0.000 min
Response: 1000657281
Conc: 750.00 ng/ml



#5 DICAMBA

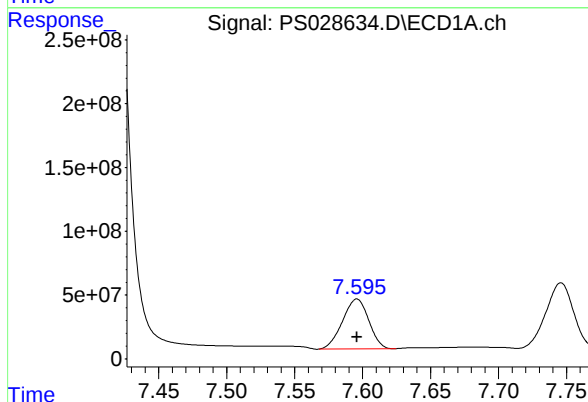
R.T.: 7.413 min
Delta R.T.: 0.000 min
Response: 8053032590
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



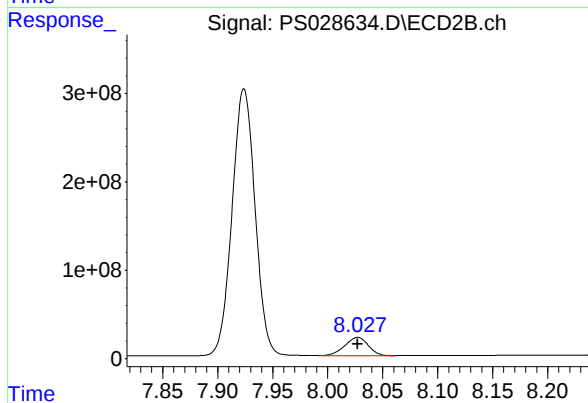
#5 DICAMBA

R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 4390649455
Conc: 705.00 ng/ml



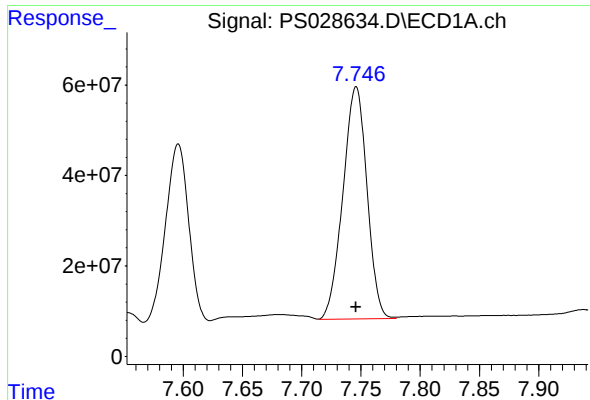
#6 MCPP

R.T.: 7.596 min
Delta R.T.: 0.000 min
Response: 527002813
Conc: 70.50 ug/ml



#6 MCPP

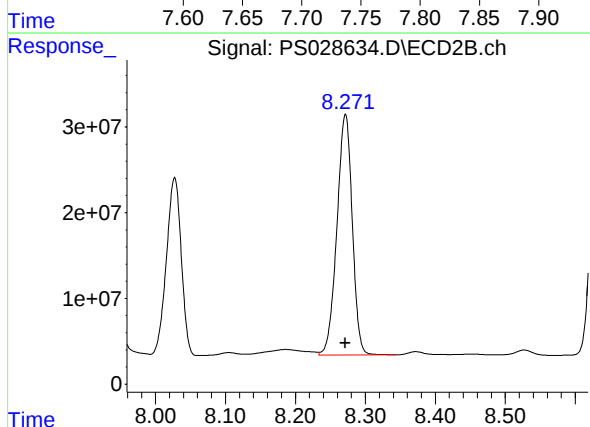
R.T.: 8.027 min
Delta R.T.: 0.000 min
Response: 307191521
Conc: 70.50 ug/ml



#7 MCPA

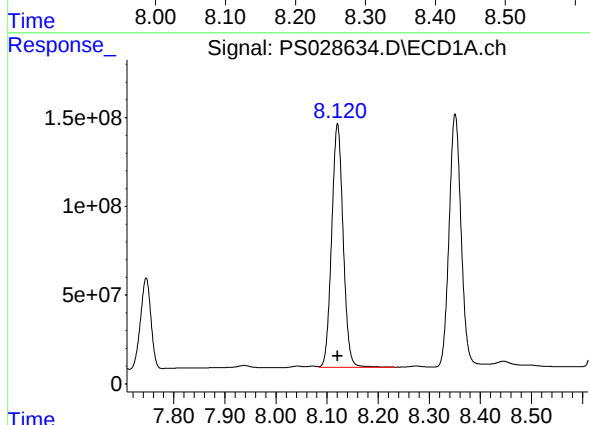
R.T.: 7.746 min
Delta R.T.: 0.000 min
Response: 725311784
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



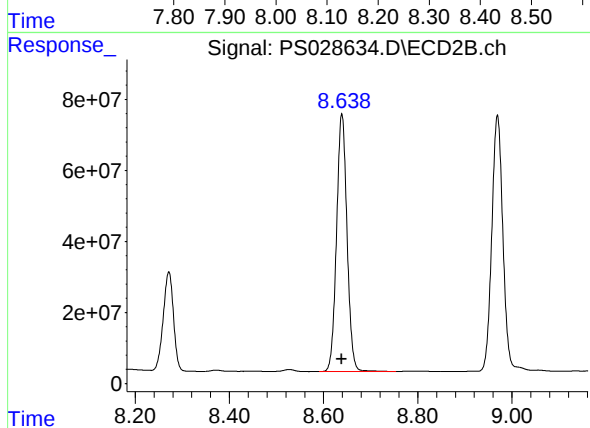
#7 MCPA

R.T.: 8.271 min
Delta R.T.: 0.000 min
Response: 428057377
Conc: 69.75 ug/ml



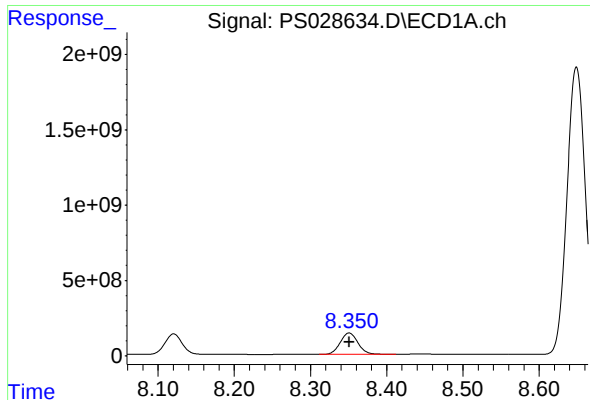
#8 DICHLORPROP

R.T.: 8.121 min
Delta R.T.: 0.000 min
Response: 2142254559
Conc: 705.00 ng/ml



#8 DICHLORPROP

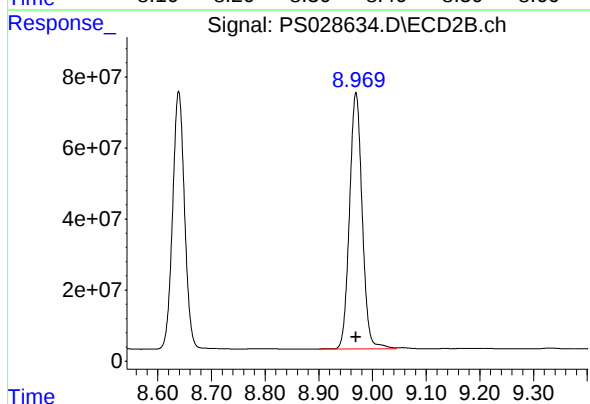
R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 1118574167
Conc: 705.00 ng/ml



#9 2,4-D

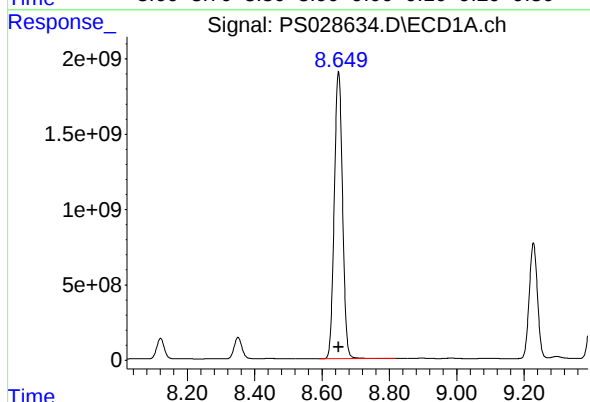
R.T.: 8.351 min
Delta R.T.: 0.000 min
Response: 2327569795
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



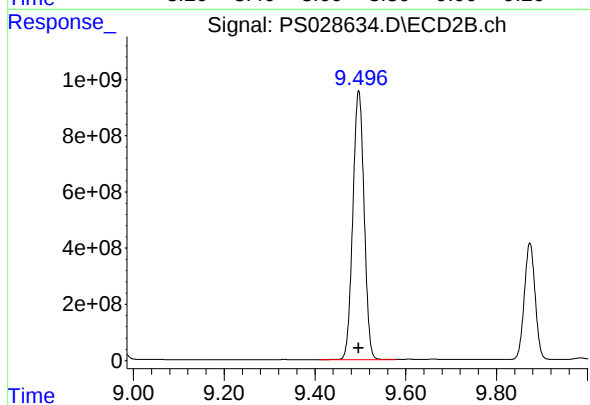
#9 2,4-D

R.T.: 8.969 min
Delta R.T.: 0.000 min
Response: 1181935531
Conc: 705.00 ng/ml



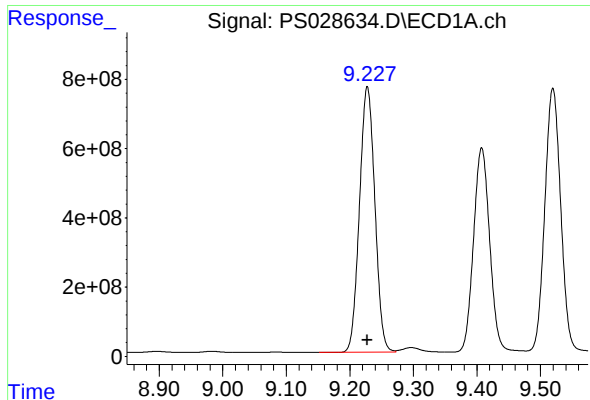
#10 Pentachlorophenol

R.T.: 8.649 min
Delta R.T.: 0.000 min
Response: 32452988068
Conc: 712.50 ng/ml



#10 Pentachlorophenol

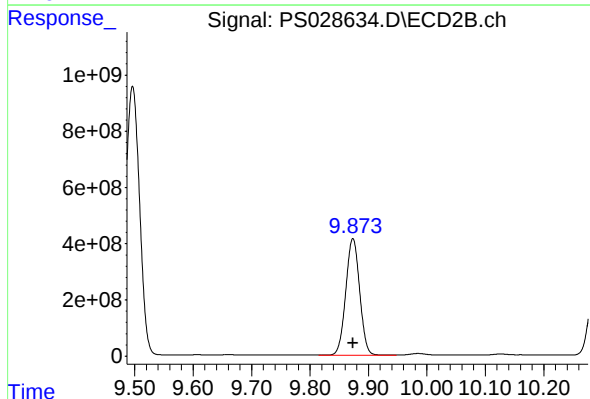
R.T.: 9.496 min
Delta R.T.: 0.000 min
Response: 16483783618
Conc: 712.50 ng/ml



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

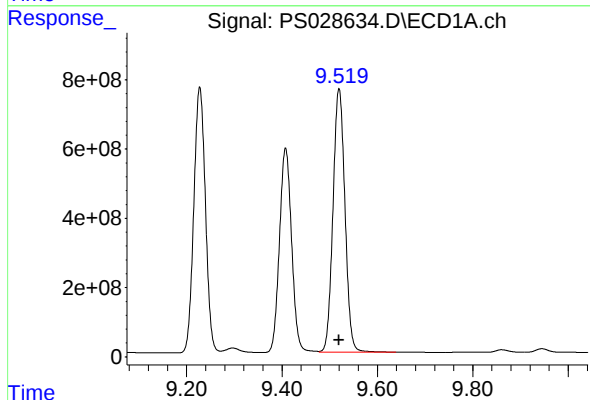
R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 12913017674
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



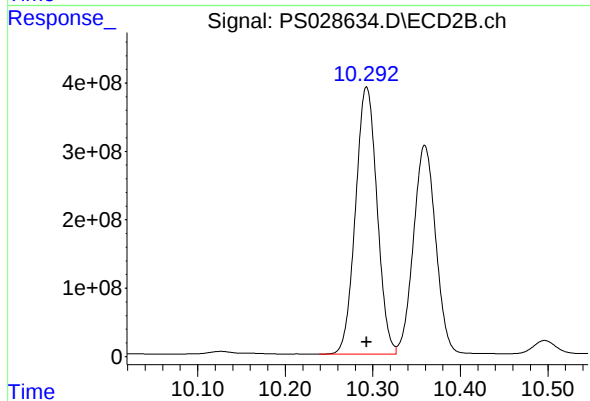
#11 2,4,5-TP (SILVEX)

R.T.: 9.873 min
Delta R.T.: 0.000 min
Response: 6838758973
Conc: 712.50 ng/ml



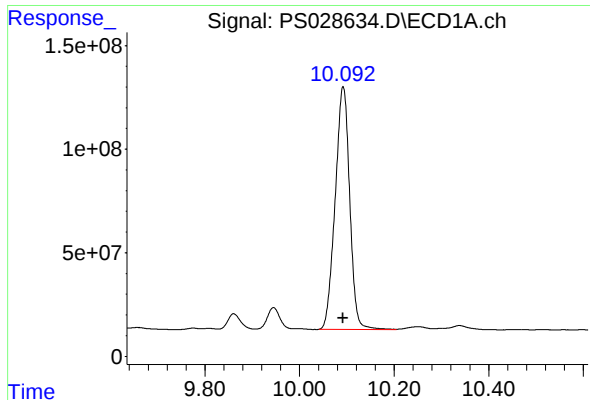
#12 2,4,5-T

R.T.: 9.520 min
Delta R.T.: 0.000 min
Response: 13250213490
Conc: 712.50 ng/ml



#12 2,4,5-T

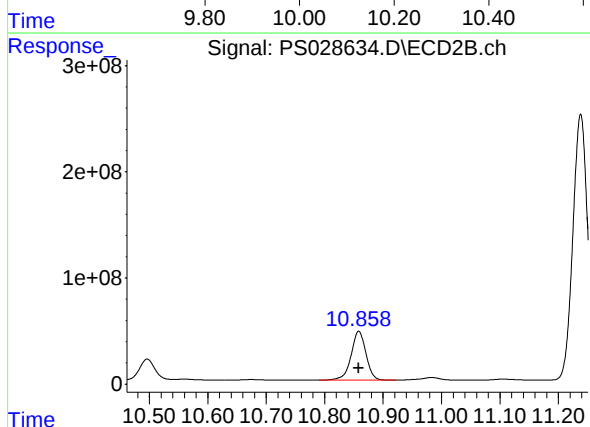
R.T.: 10.293 min
Delta R.T.: 0.000 min
Response: 6668911114
Conc: 712.50 ng/ml



#13 2,4-DB

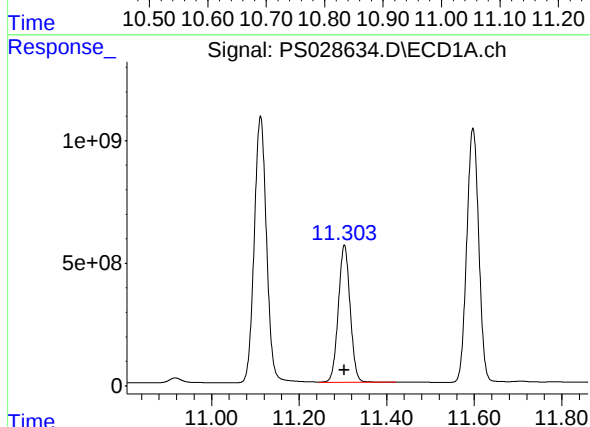
R.T.: 10.092 min
Delta R.T.: 0.000 min
Response: 2492032408
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



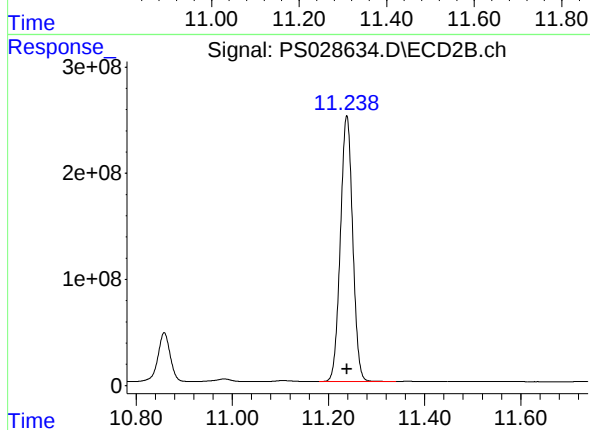
#13 2,4-DB

R.T.: 10.858 min
Delta R.T.: 0.000 min
Response: 811865853
Conc: 712.50 ng/ml



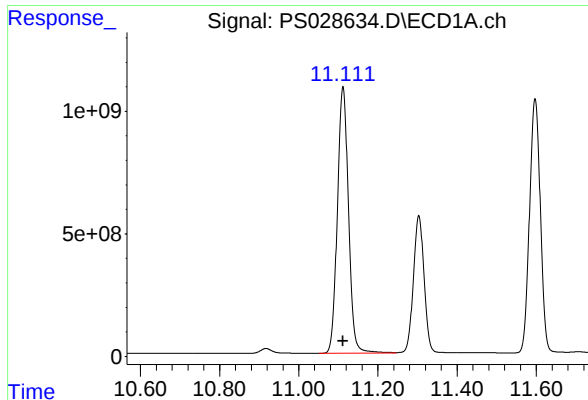
#14 DINOSEB

R.T.: 11.303 min
Delta R.T.: 0.000 min
Response: 10525356258
Conc: 705.00 ng/ml



#14 DINOSEB

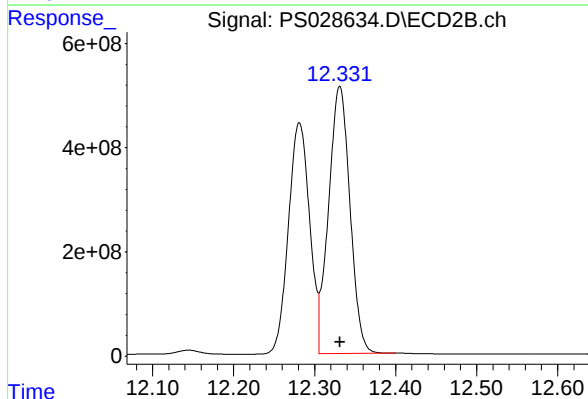
R.T.: 11.238 min
Delta R.T.: 0.000 min
Response: 4452293029
Conc: 705.00 ng/ml



#15 Picloram

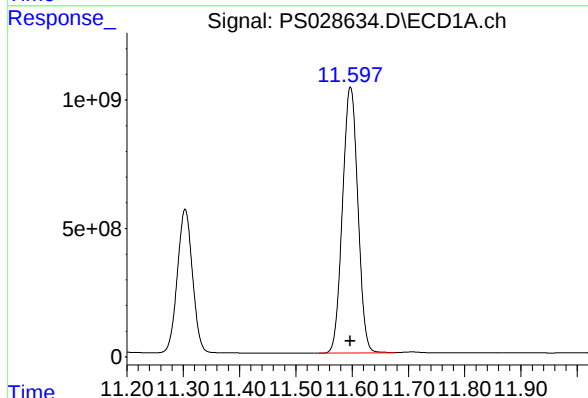
R.T.: 11.112 min
Delta R.T.: 0.000 min
Response: 21213446480
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



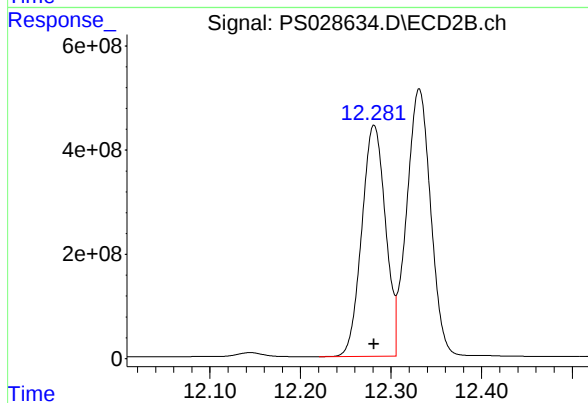
#15 Picloram

R.T.: 12.331 min
Delta R.T.: 0.000 min
Response: 9411136581
Conc: 712.50 ng/ml



#16 DCPA

R.T.: 11.597 min
Delta R.T.: 0.000 min
Response: 19689267967
Conc: 720.00 ng/ml



#16 DCPA

R.T.: 12.281 min
Delta R.T.: 0.000 min
Response: 8071028864
Conc: 720.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
 Data File : PS028635.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Nov 2024 14:01
 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: Nov 26 14:17:52 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:17:43 2024
 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	7.226	7.725	2550.1E6	1323.4E6	931.145	975.996
Target Compounds						
1) T Dalapon	2.630	2.689	2619.6E6	1963.5E6	905.639	898.153
2) T 3,5-DICHL...	6.399	6.681	3396.5E6	1805.0E6	868.484	913.085
3) T 4-Nitroph...	7.024	7.251	1519.2E6	810.6E6	875.056	882.272
5) T DICAMBA	7.413	7.924	10463.0E6	5878.2E6	898.080	958.281
6) T MCPP	7.597	8.029	714.8E6	411.7E6	99.961	96.388
7) T MCPA	7.748	8.274	970.3E6	567.3E6	94.332	91.061
8) T DICHLORPROP	8.120	8.639	2762.6E6	1489.1E6	867.830	927.289
9) T 2,4-D	8.350	8.969	2989.3E6	1553.7E6	865.875	911.790
10) T Pentachlo...	8.649	9.496	40226.6E6	21475.2E6	861.439	923.952
11) T 2,4,5-TP ...	9.227	9.873	16624.5E6	9024.3E6	888.958	938.906
12) T 2,4,5-T	9.519	10.292	17026.6E6	8787.5E6	887.193	936.329
13) T 2,4-DB	10.092	10.859	3253.1E6	1085.1E6	906.273	947.284
14) T DINOSEB	11.303	11.237	13640.3E6	5898.5E6	892.035	936.066
15) T Picloram	11.110	12.330	27996.2E6	12779.6E6	932.334	1001.392
16) T DCPA	11.597	12.280	25255.0E6	10653.9E6	896.906	954.145

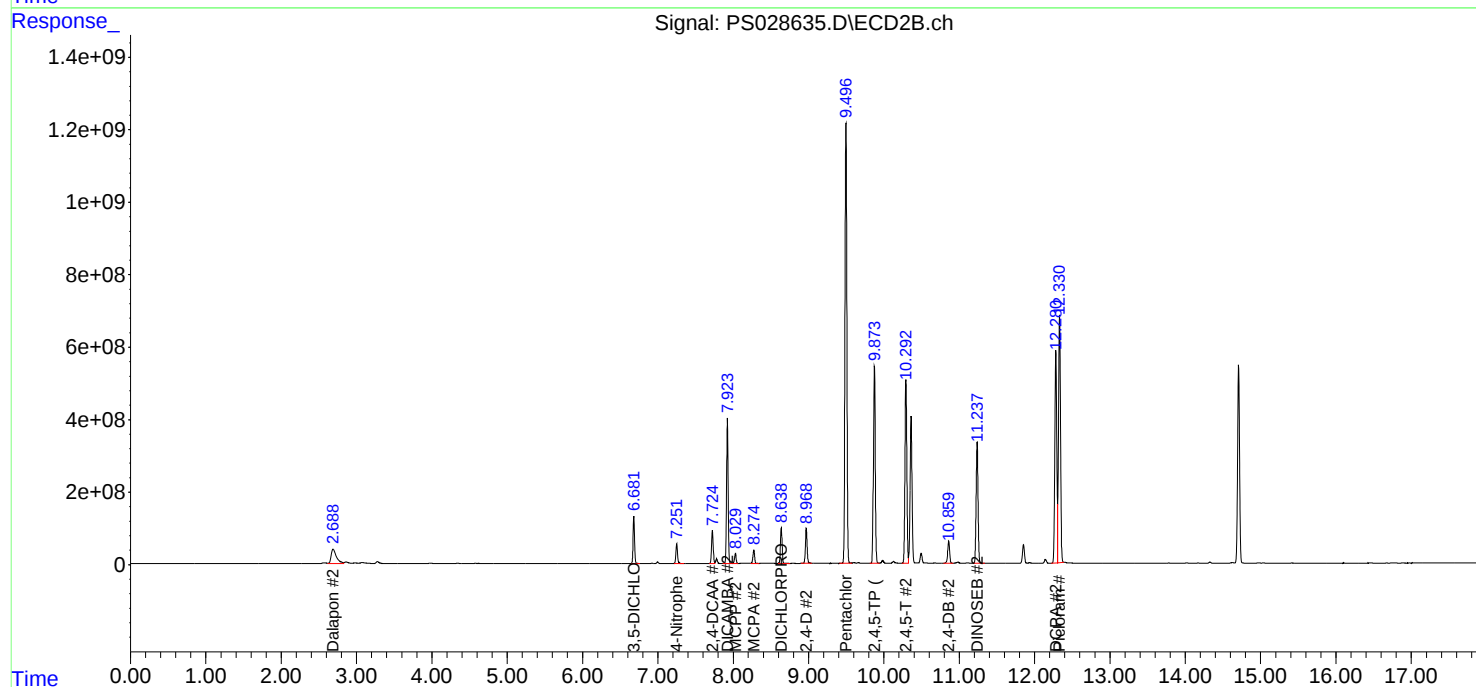
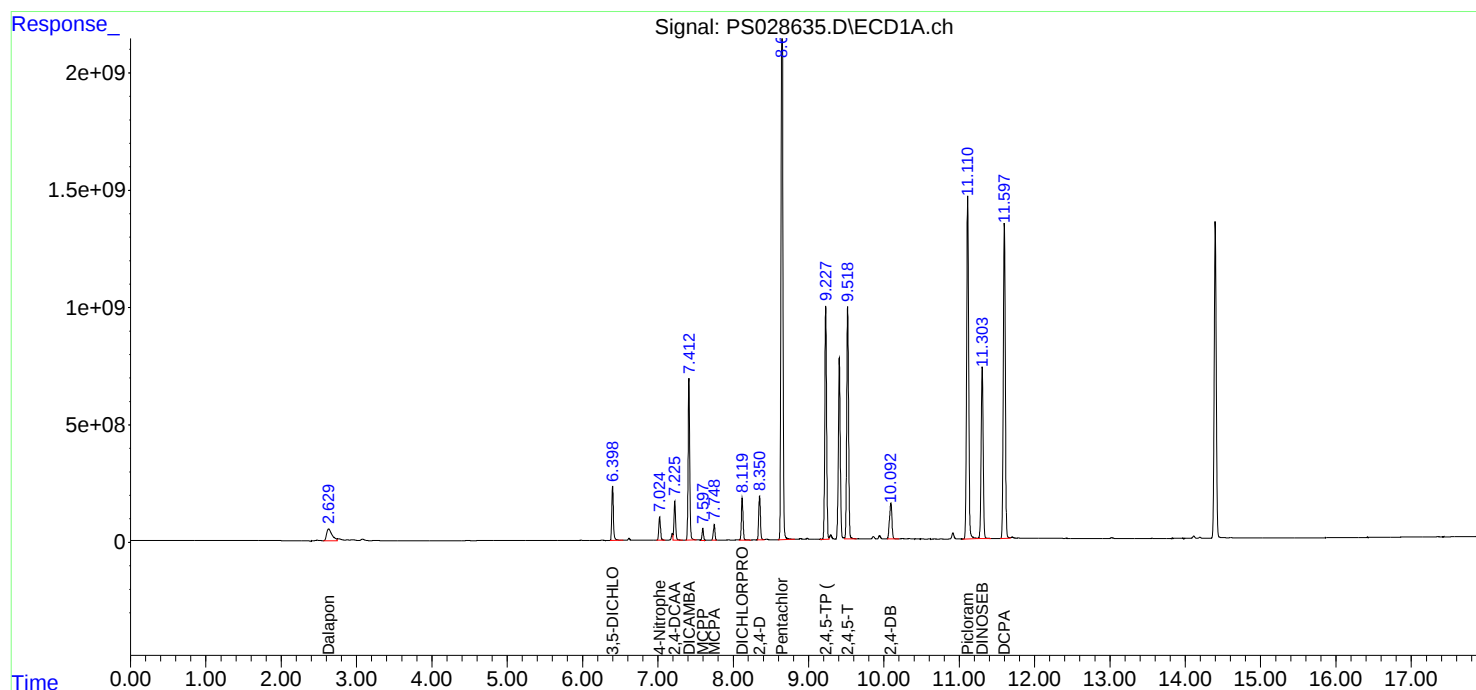
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

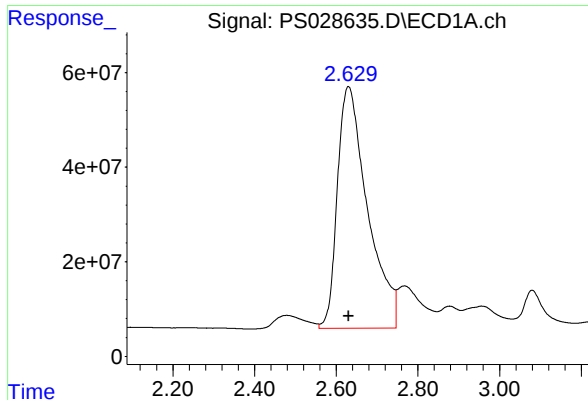
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
Data File : PS028635.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Nov 2024 14:01
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 26 14:17:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:17:43 2024
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

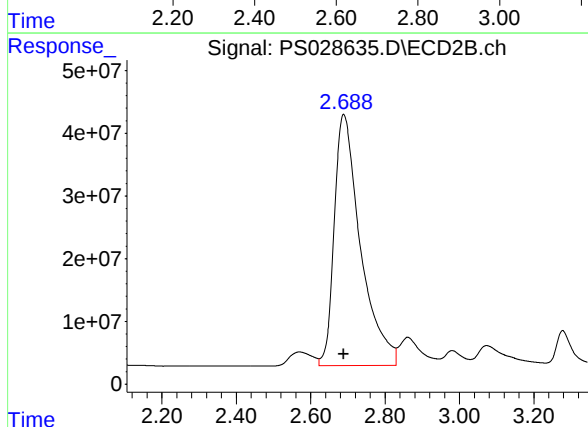




#1 Dalapon

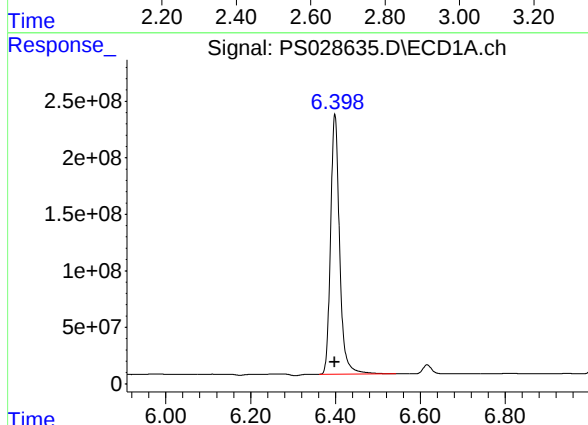
R.T.: 2.630 min
Delta R.T.: 0.000 min
Response: 2619638115
Conc: 905.64 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



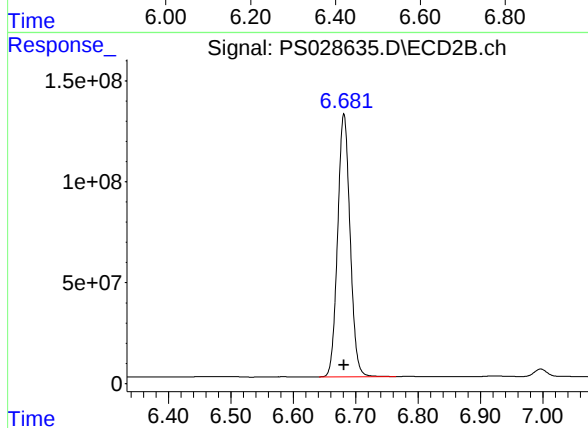
#1 Dalapon

R.T.: 2.689 min
Delta R.T.: 0.000 min
Response: 1963450086
Conc: 898.15 ng/ml



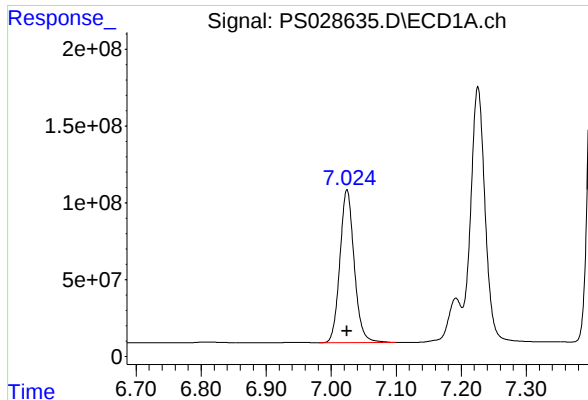
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.399 min
Delta R.T.: 0.000 min
Response: 3396490184
Conc: 868.48 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

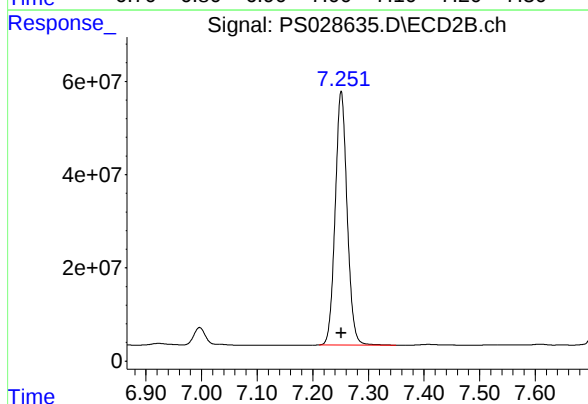
R.T.: 6.681 min
Delta R.T.: 0.000 min
Response: 1804995312
Conc: 913.08 ng/ml



#3 4-Nitrophenol

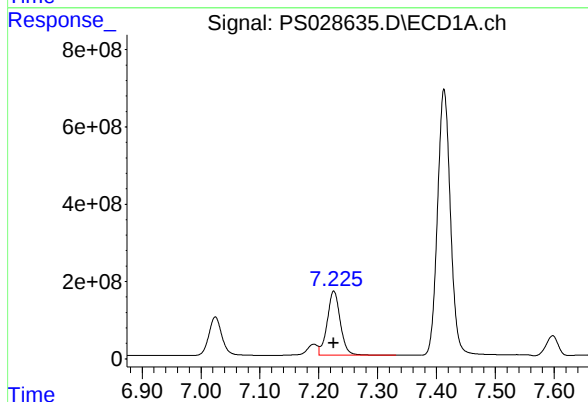
R.T.: 7.024 min
Delta R.T.: 0.000 min
Response: 1519181590
Conc: 875.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



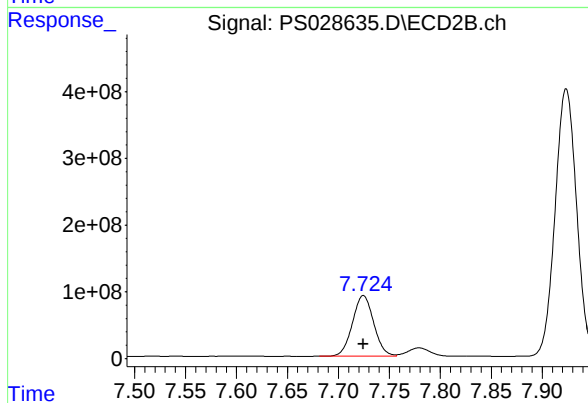
#3 4-Nitrophenol

R.T.: 7.251 min
Delta R.T.: 0.000 min
Response: 810601416
Conc: 882.27 ng/ml



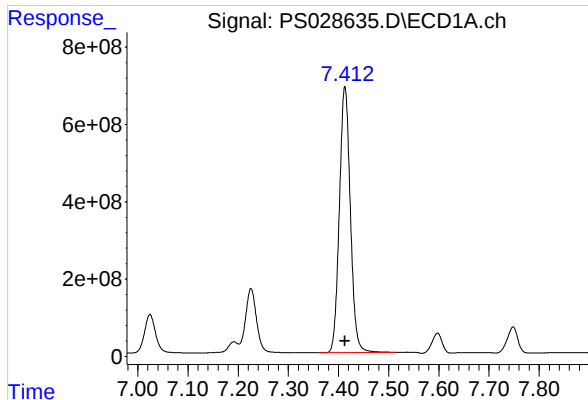
#4 2,4-DCAA

R.T.: 7.226 min
Delta R.T.: 0.000 min
Response: 2550086496
Conc: 931.15 ng/ml



#4 2,4-DCAA

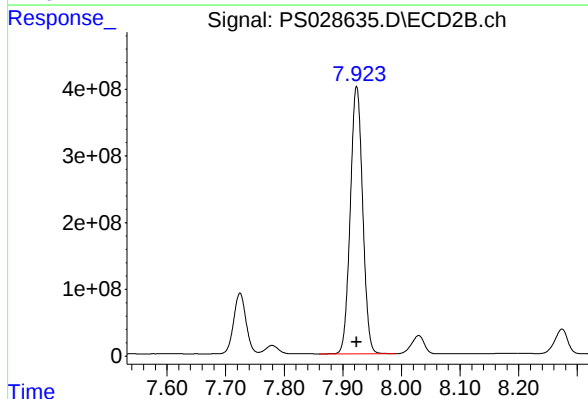
R.T.: 7.725 min
Delta R.T.: 0.000 min
Response: 1323403926
Conc: 976.00 ng/ml



#5 DICAMBA

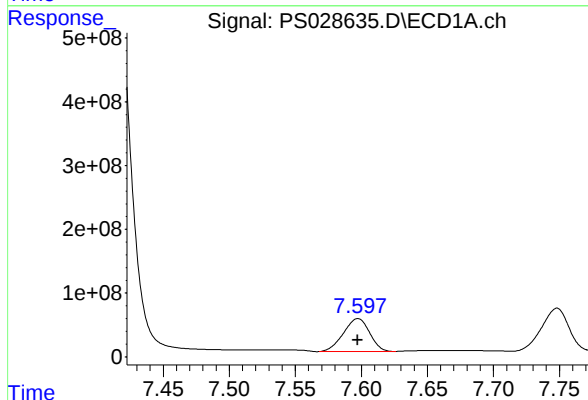
R.T.: 7.413 min
Delta R.T.: 0.000 min
Response: 10462952810
Conc: 898.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



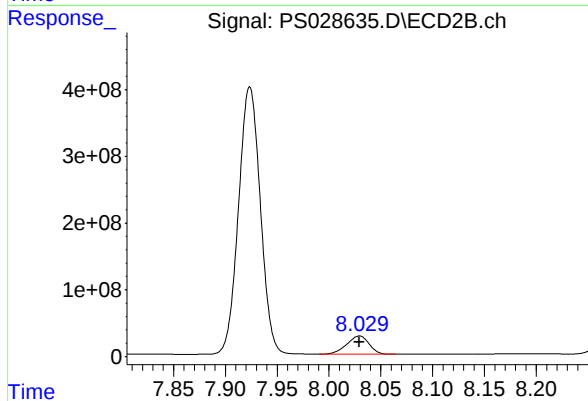
#5 DICAMBA

R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 5878185097
Conc: 958.28 ng/ml



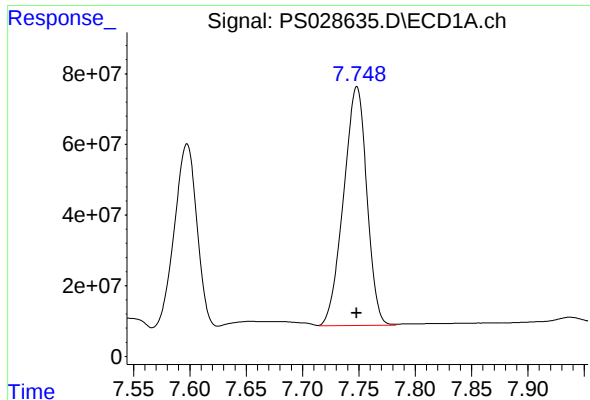
#6 MCPP

R.T.: 7.597 min
Delta R.T.: 0.000 min
Response: 714837563
Conc: 99.96 ug/ml



#6 MCPP

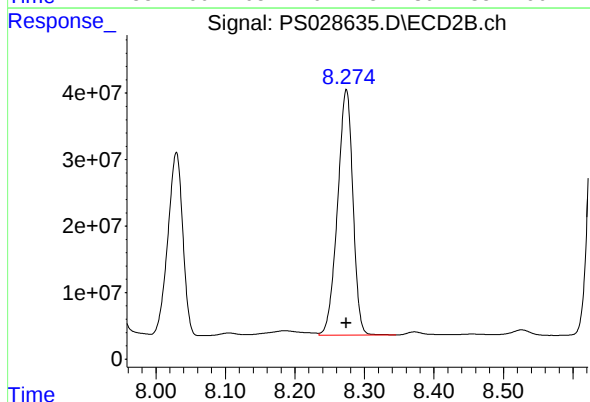
R.T.: 8.029 min
Delta R.T.: 0.000 min
Response: 411740563
Conc: 96.39 ug/ml



#7 MCPA

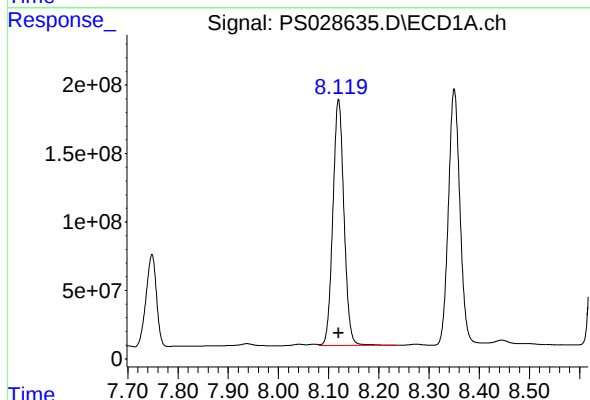
R.T.: 7.748 min
Delta R.T.: 0.000 min
Response: 970276310
Conc: 94.33 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



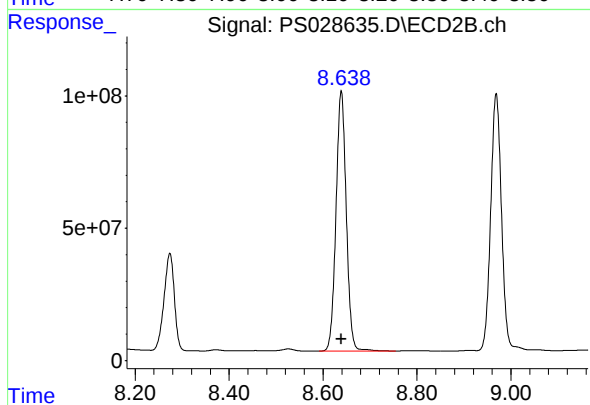
#7 MCPA

R.T.: 8.274 min
Delta R.T.: 0.000 min
Response: 567347179
Conc: 91.06 ug/ml



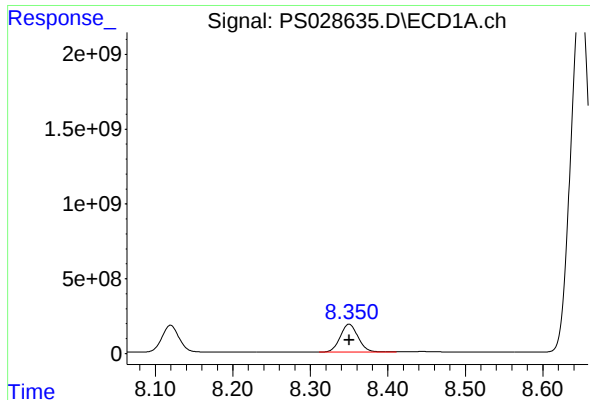
#8 DICHLORPROP

R.T.: 8.120 min
Delta R.T.: 0.000 min
Response: 2762552807
Conc: 867.83 ng/ml



#8 DICHLORPROP

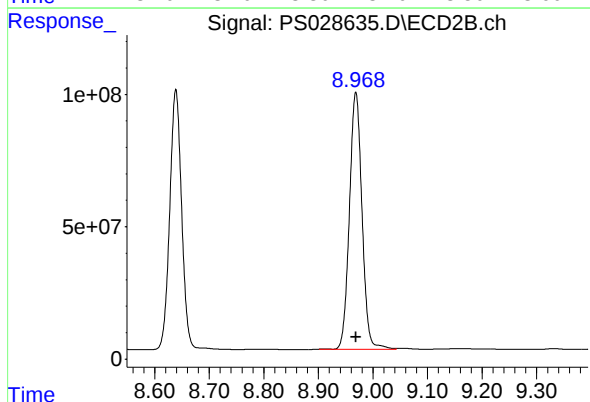
R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 1489084790
Conc: 927.29 ng/ml



#9 2,4-D

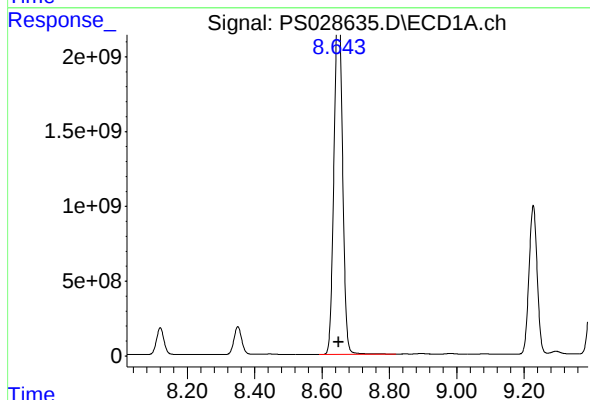
R.T.: 8.350 min
Delta R.T.: 0.000 min
Response: 2989321912
Conc: 865.87 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



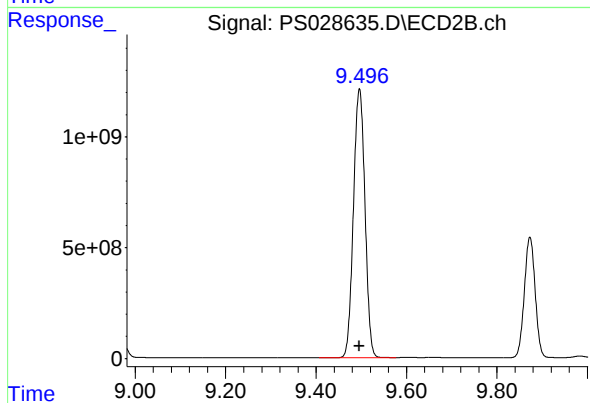
#9 2,4-D

R.T.: 8.969 min
Delta R.T.: 0.000 min
Response: 1553709767
Conc: 911.79 ng/ml



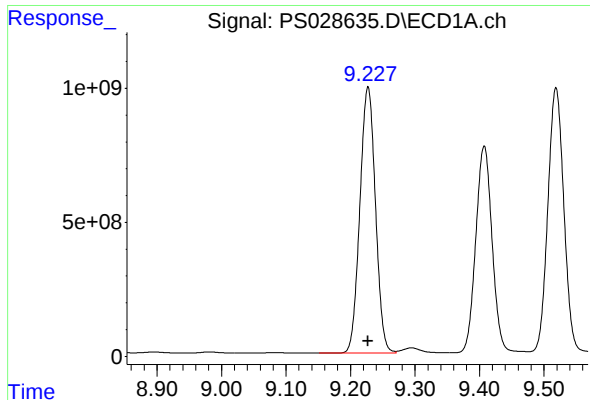
#10 Pentachlorophenol

R.T.: 8.649 min
Delta R.T.: 0.000 min
Response: 40226637390
Conc: 861.44 ng/ml



#10 Pentachlorophenol

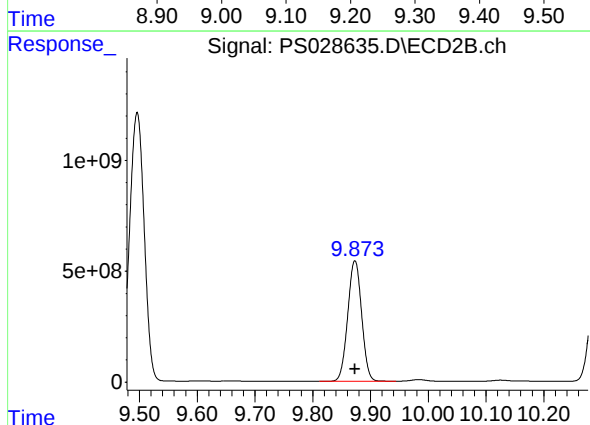
R.T.: 9.496 min
Delta R.T.: 0.000 min
Response: 21475233765
Conc: 923.95 ng/ml



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

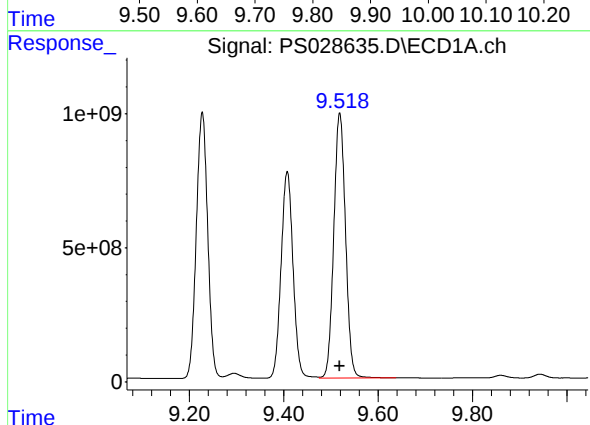
R.T.: 9.227 min
Delta R.T.: 0.000 min
Response: 16624490019
Conc: 888.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



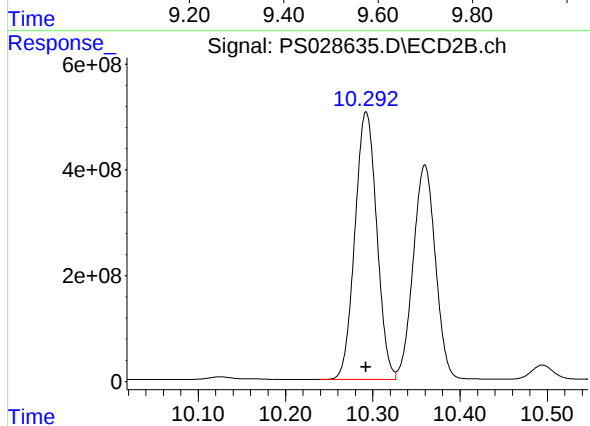
#11 2,4,5-TP (SILVEX)

R.T.: 9.873 min
Delta R.T.: 0.000 min
Response: 9024326473
Conc: 938.91 ng/ml



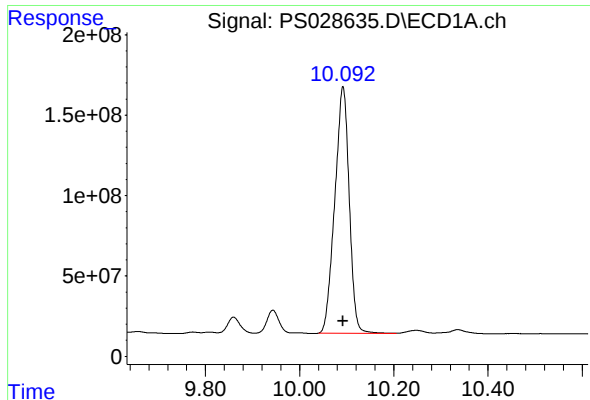
#12 2,4,5-T

R.T.: 9.519 min
Delta R.T.: 0.000 min
Response: 17026596920
Conc: 887.19 ng/ml



#12 2,4,5-T

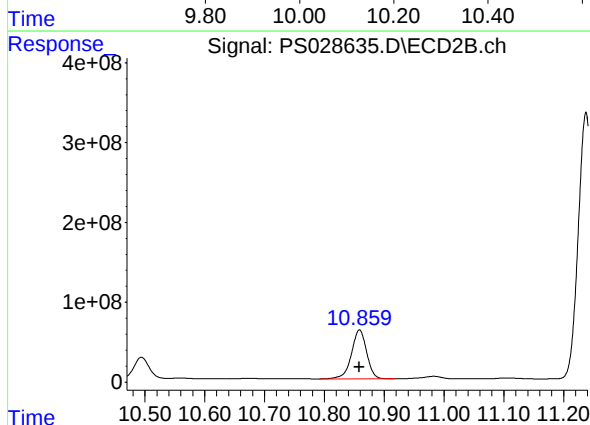
R.T.: 10.292 min
Delta R.T.: 0.000 min
Response: 8787456075
Conc: 936.33 ng/ml



#13 2,4-DB

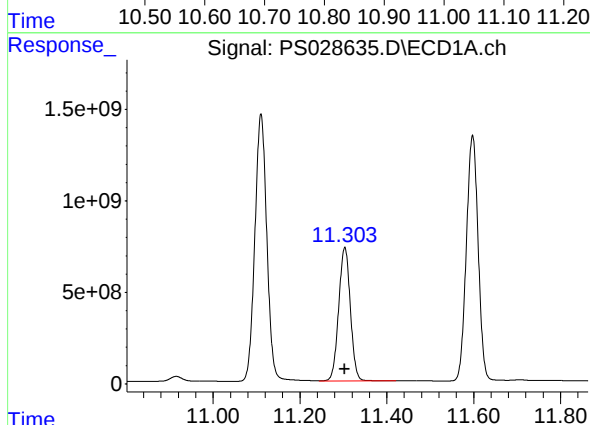
R.T.: 10.092 min
Delta R.T.: 0.000 min
Response: 3253123354
Conc: 906.27 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



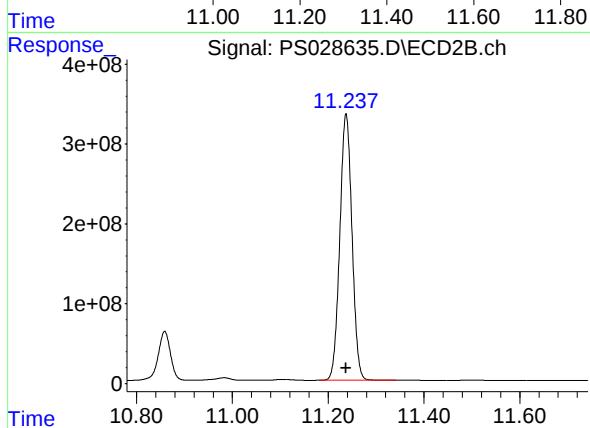
#13 2,4-DB

R.T.: 10.859 min
Delta R.T.: 0.000 min
Response: 1085148694
Conc: 947.28 ng/ml



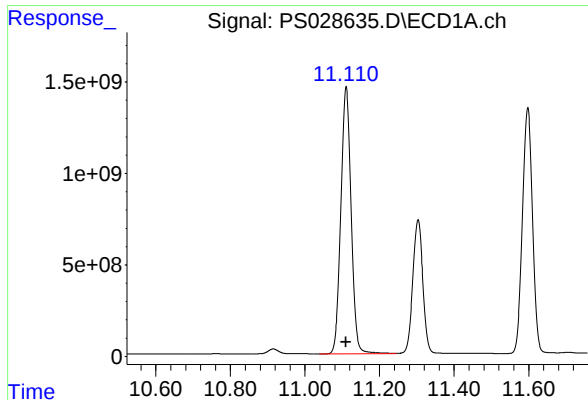
#14 DINOSEB

R.T.: 11.303 min
Delta R.T.: 0.000 min
Response: 13640322548
Conc: 892.04 ng/ml



#14 DINOSEB

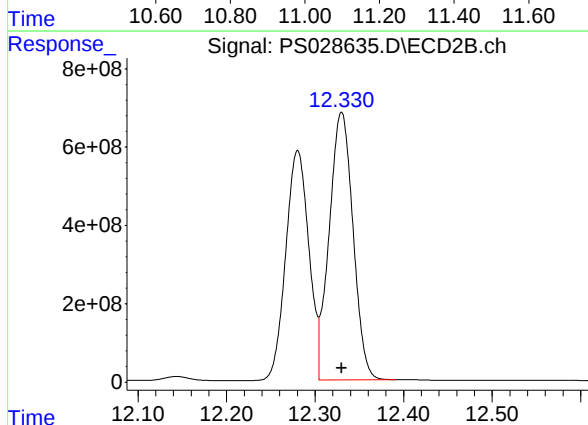
R.T.: 11.237 min
Delta R.T.: 0.000 min
Response: 5898526859
Conc: 936.07 ng/ml



#15 Picloram

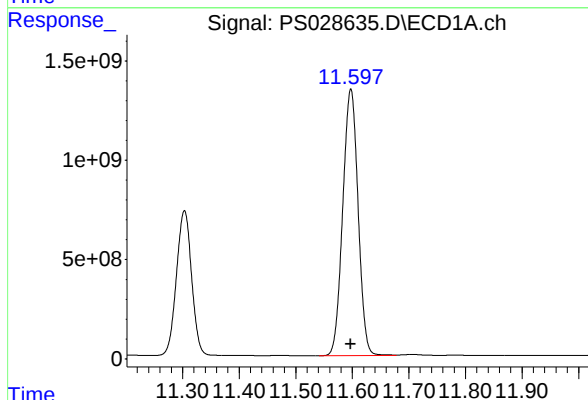
R.T.: 11.110 min
Delta R.T.: 0.000 min
Response: 27996240168
Conc: 932.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



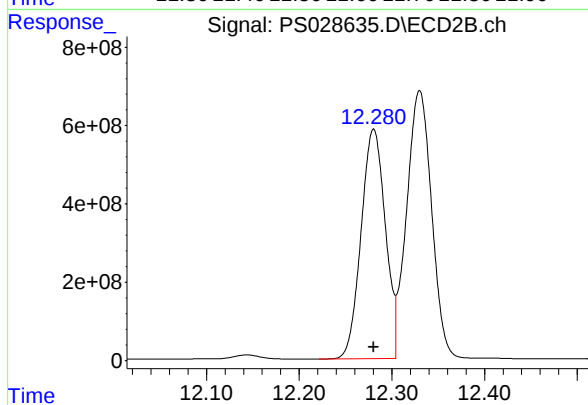
#15 Picloram

R.T.: 12.330 min
Delta R.T.: 0.000 min
Response: 12779605543
Conc: 1001.39 ng/ml



#16 DCPA

R.T.: 11.597 min
Delta R.T.: 0.000 min
Response: 25255023204
Conc: 896.91 ng/ml



#16 DCPA

R.T.: 12.280 min
Delta R.T.: 0.000 min
Response: 10653897069
Conc: 954.15 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
 Data File : PS028636.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Nov 2024 14:25
 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: Nov 26 14:43:42 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:43:32 2024
 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	7.226	7.725	3685.6E6	1967.0E6	1374.037	1460.255
Target Compounds						
1) T Dalapon	2.630	2.688	4011.6E6	2968.4E6	1382.427	1359.282
2) T 3,5-DICHL...	6.399	6.681	4889.4E6	2668.9E6	1276.728	1358.862
3) T 4-Nitroph...	7.025	7.251	2252.9E6	1208.9E6	1310.611	1325.304
5) T DICAMBA	7.413	7.924	15229.7E6	8805.0E6	1326.571	1430.266
6) T MCPP	7.601	8.033	1111.5E6	627.6E6	152.308	145.694
7) T MCPA	7.753	8.278	1472.0E6	852.2E6	142.371	137.310
8) T DICHLORPROP	8.121	8.640	3993.6E6	2213.3E6	1282.849	1384.497
9) T 2,4-D	8.350	8.969	4302.3E6	2310.6E6	1275.827	1366.463
10) T Pentachlo...	8.654	9.497	47986.8E6	30613.5E6	1088.319	1337.367
11) T 2,4,5-TP ...	9.228	9.873	23647.2E6	13204.7E6	1293.628	1383.777
12) T 2,4,5-T	9.520	10.293	24241.3E6	12841.2E6	1292.489	1379.252
13) T 2,4-DB	10.092	10.859	4774.2E6	1640.8E6	1347.982	1430.884
14) T DINOSEB	11.303	11.237	19692.3E6	8706.1E6	1310.531	1387.195
15) T Picloram	11.111	12.330	40714.3E6	19103.7E6	1369.157	1481.977
16) T DCPA	11.597	12.280	35775.2E6	15584.4E6	1301.148	1404.348

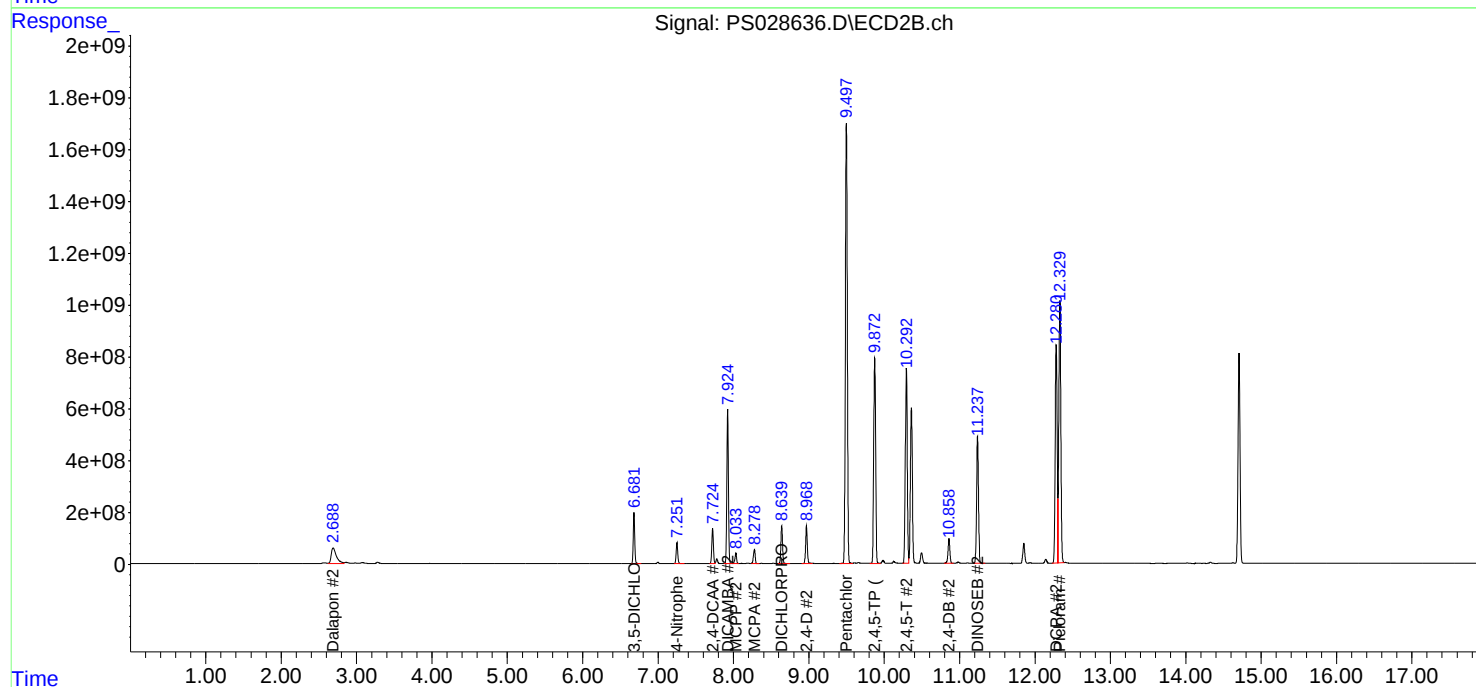
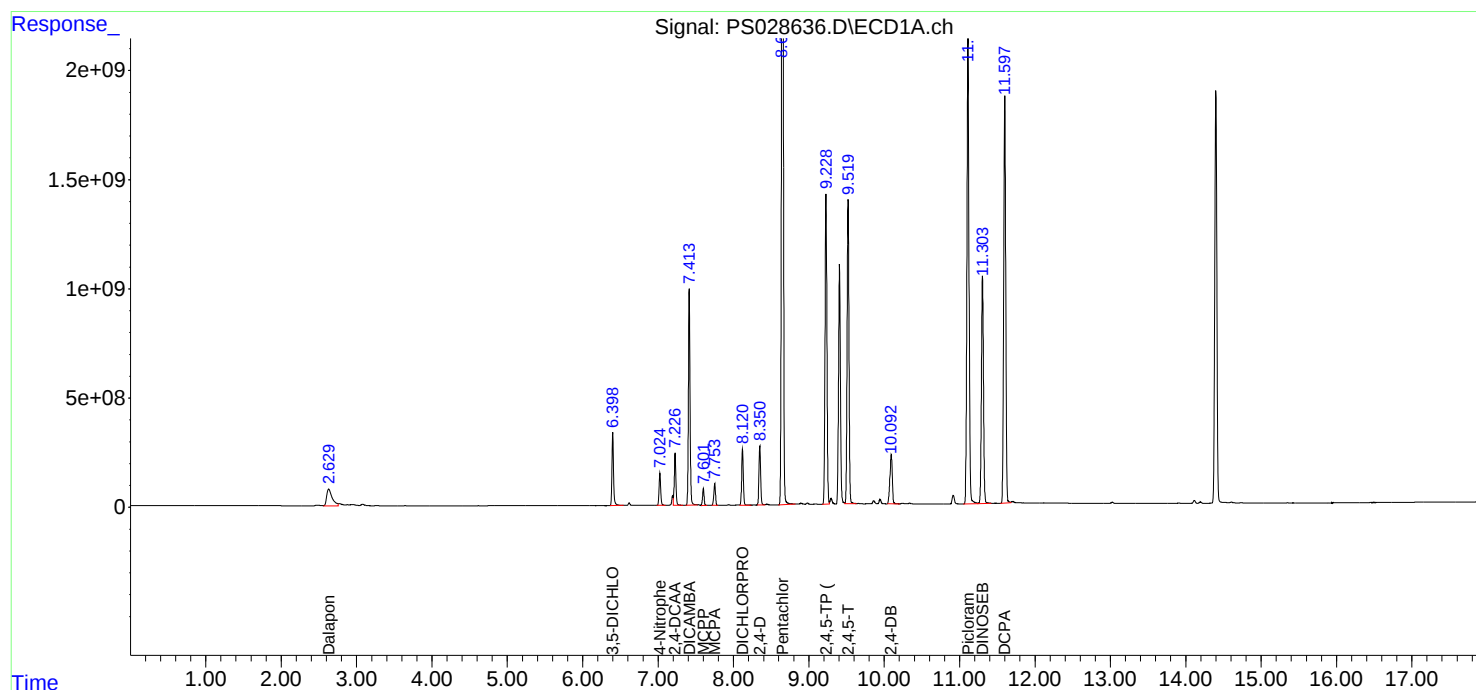
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

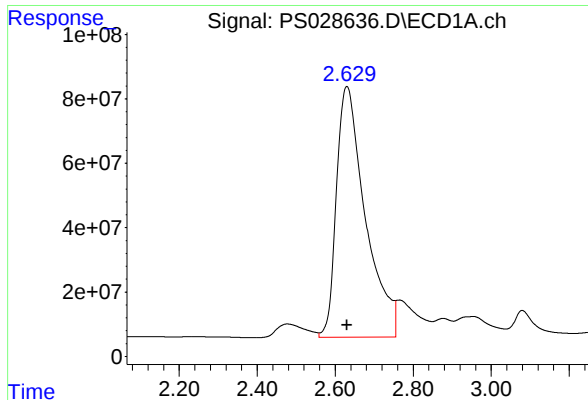
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
Data File : PS028636.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Nov 2024 14:25
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 26 14:43:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:43:32 2024
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

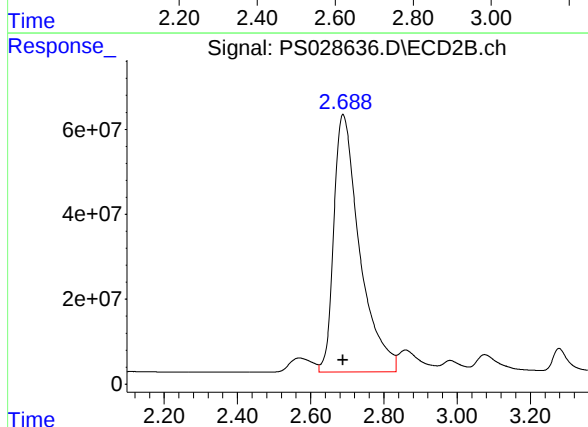




#1 Dalapon

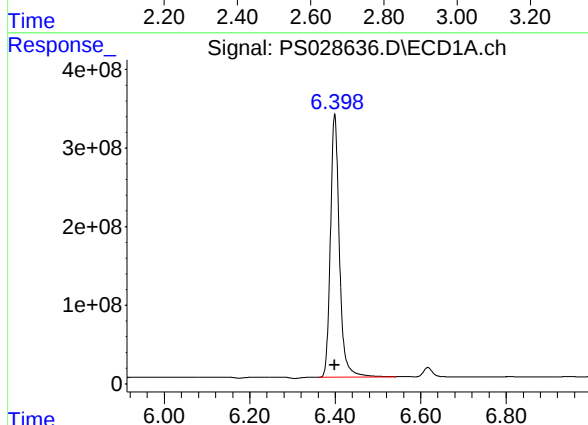
R.T.: 2.630 min
Delta R.T.: 0.000 min
Response: 4011590390
Conc: 1382.43 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



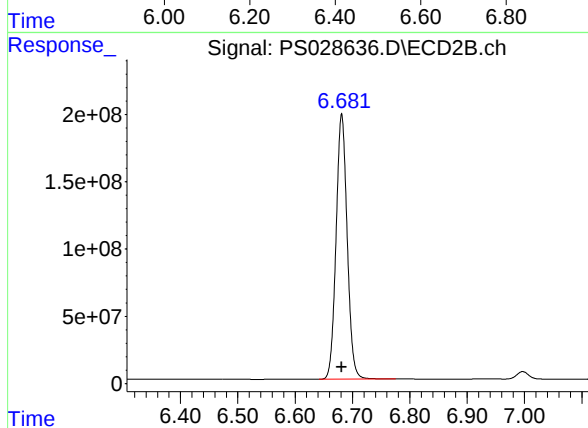
#1 Dalapon

R.T.: 2.688 min
Delta R.T.: 0.000 min
Response: 2968413659
Conc: 1359.28 ng/ml



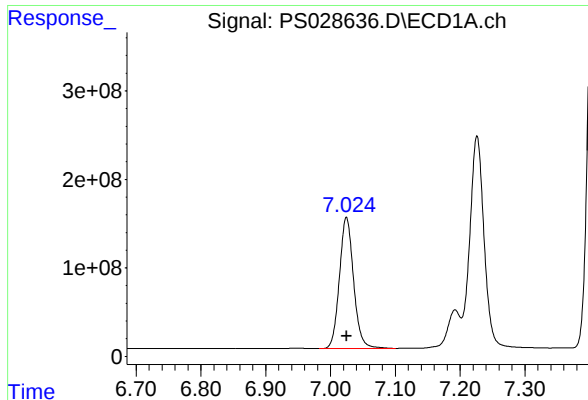
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.399 min
Delta R.T.: 0.000 min
Response: 4889428610
Conc: 1276.73 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

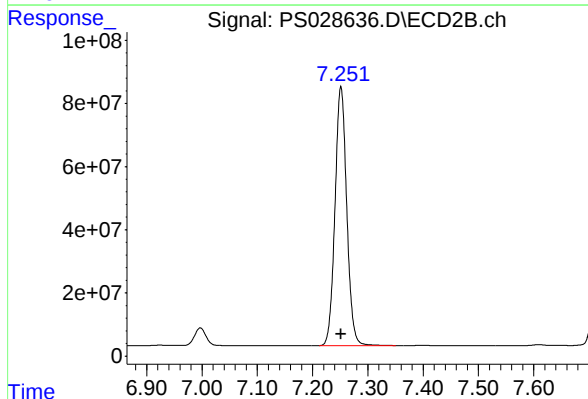
R.T.: 6.681 min
Delta R.T.: 0.000 min
Response: 2668928936
Conc: 1358.86 ng/ml



#3 4-Nitrophenol

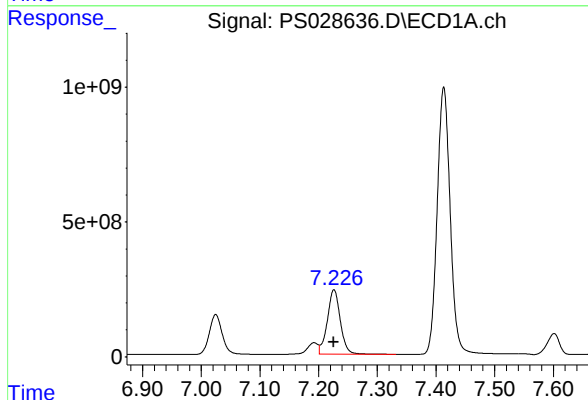
R.T.: 7.025 min
Delta R.T.: 0.000 min
Response: 2252905232
Conc: 1310.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



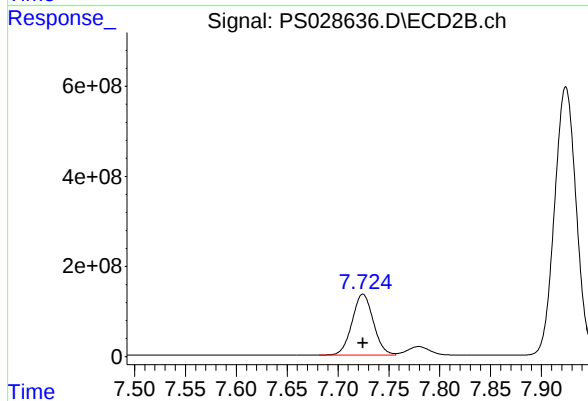
#3 4-Nitrophenol

R.T.: 7.251 min
Delta R.T.: 0.000 min
Response: 1208855399
Conc: 1325.30 ng/ml



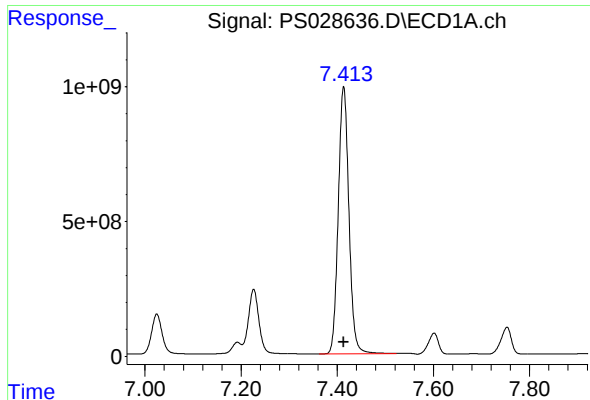
#4 2,4-DCAA

R.T.: 7.226 min
Delta R.T.: 0.000 min
Response: 3685638727
Conc: 1374.04 ng/ml



#4 2,4-DCAA

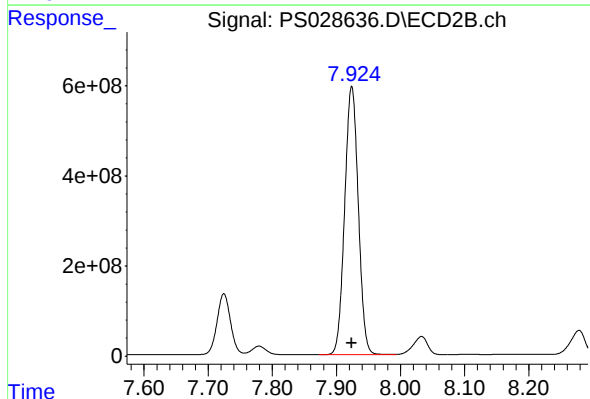
R.T.: 7.725 min
Delta R.T.: 0.000 min
Response: 1967007054
Conc: 1460.26 ng/ml



#5 DICAMBA

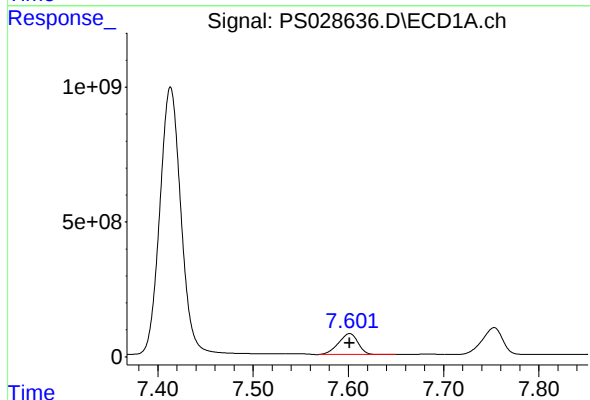
R.T.: 7.413 min
Delta R.T.: 0.000 min
Response: 15229739109
Conc: 1326.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



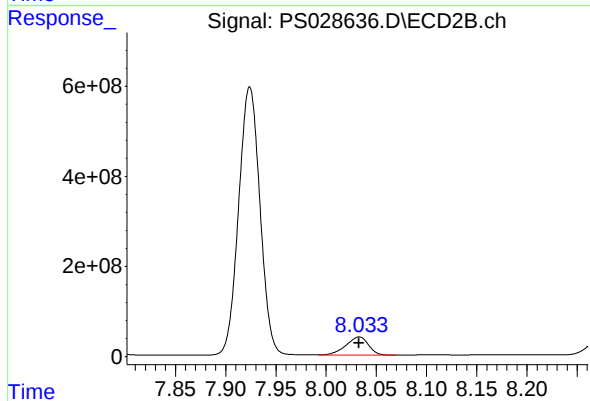
#5 DICAMBA

R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 8805023334
Conc: 1430.27 ng/ml



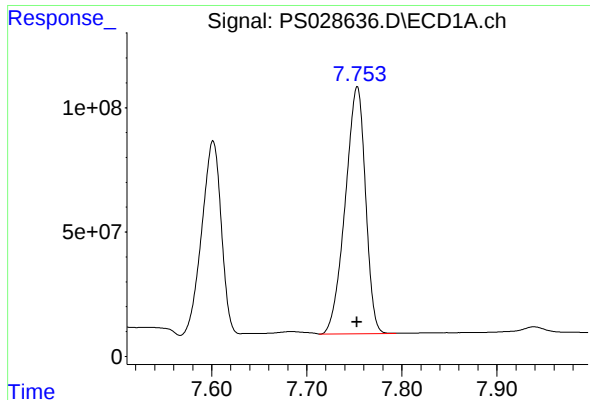
#6 MCPP

R.T.: 7.601 min
Delta R.T.: 0.000 min
Response: 1111468266
Conc: 152.31 ug/ml



#6 MCPP

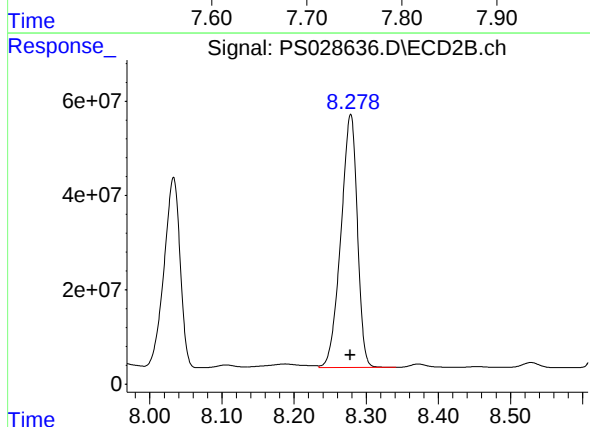
R.T.: 8.033 min
Delta R.T.: 0.000 min
Response: 627584328
Conc: 145.69 ug/ml



#7 MCPA

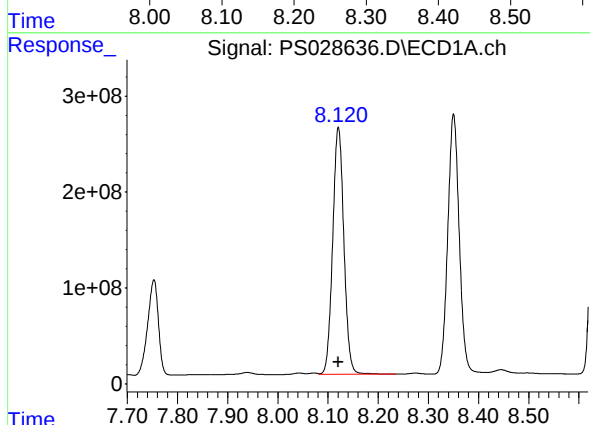
R.T.: 7.753 min
Delta R.T.: 0.000 min
Response: 1471978232
Conc: 142.37 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



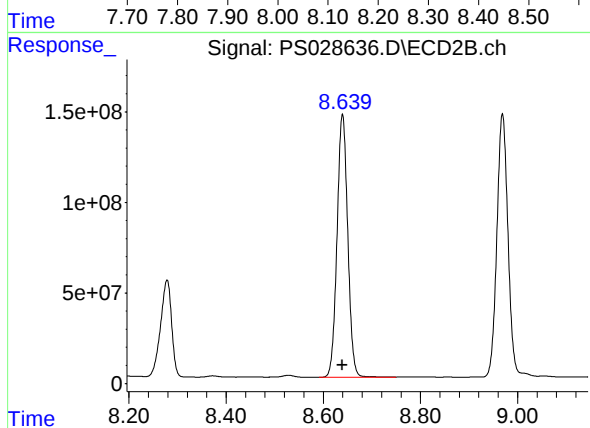
#7 MCPA

R.T.: 8.278 min
Delta R.T.: 0.000 min
Response: 852150879
Conc: 137.31 ug/ml



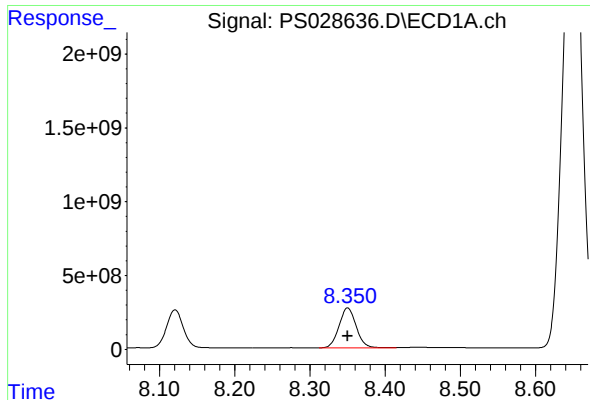
#8 DICHLORPROP

R.T.: 8.121 min
Delta R.T.: 0.000 min
Response: 3993640609
Conc: 1282.85 ng/ml



#8 DICHLORPROP

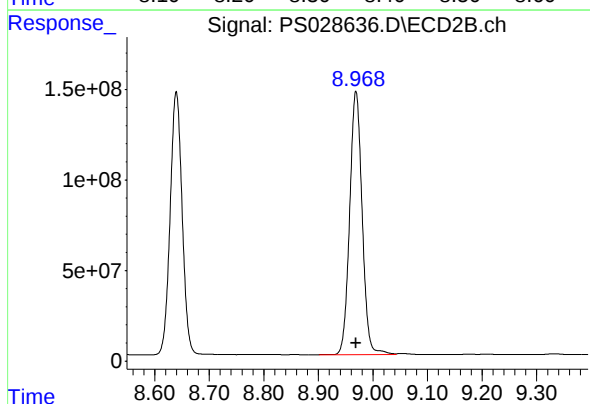
R.T.: 8.640 min
Delta R.T.: 0.000 min
Response: 2213282126
Conc: 1384.50 ng/ml



#9 2,4-D

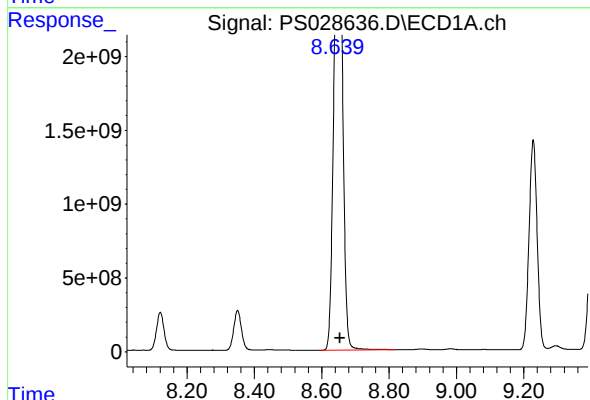
R.T.: 8.350 min
Delta R.T.: 0.000 min
Response: 4302278884
Conc: 1275.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



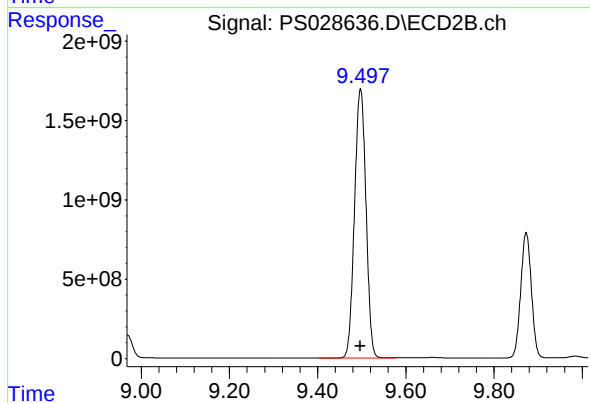
#9 2,4-D

R.T.: 8.969 min
Delta R.T.: 0.000 min
Response: 2310646374
Conc: 1366.46 ng/ml



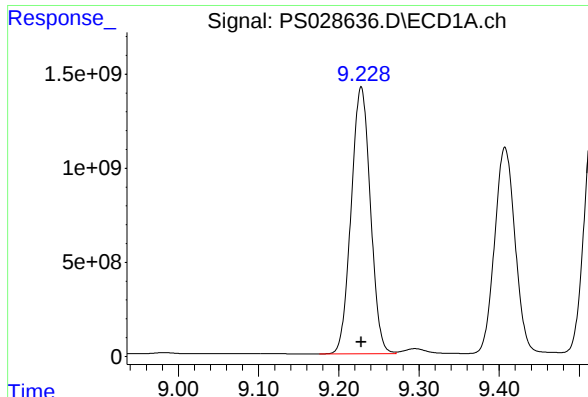
#10 Pentachlorophenol

R.T.: 8.654 min
Delta R.T.: 0.000 min
Response: 47986815842
Conc: 1088.32 ng/ml



#10 Pentachlorophenol

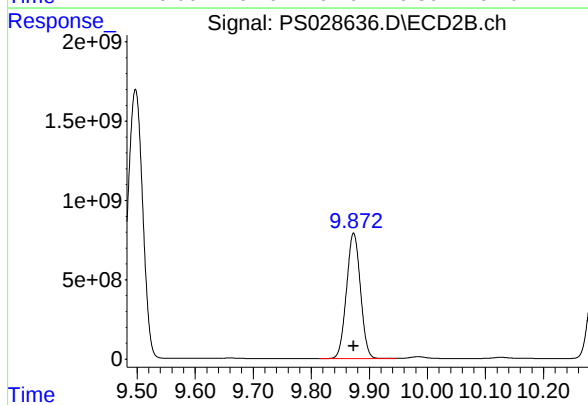
R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 30613496171
Conc: 1337.37 ng/ml



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

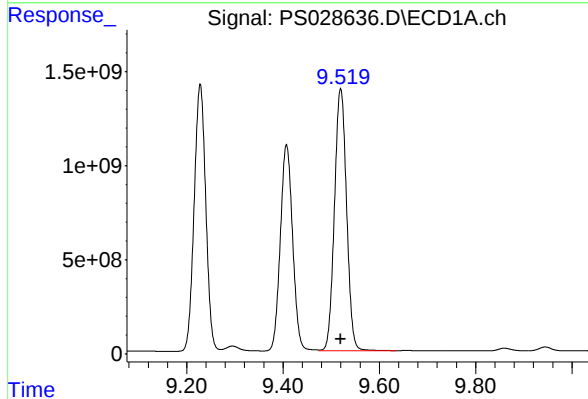
R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 23647234897
Conc: 1293.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



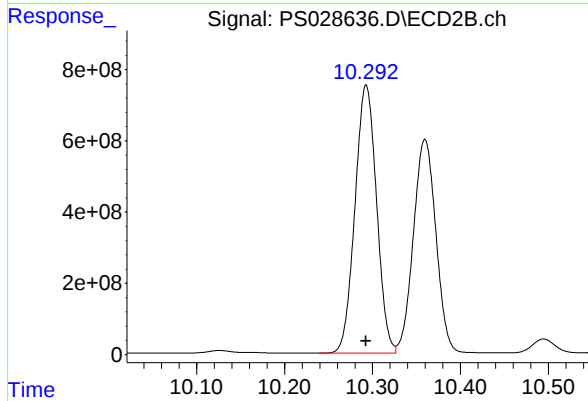
#11 2,4,5-TP (SILVEX)

R.T.: 9.873 min
Delta R.T.: 0.000 min
Response: 13204722398
Conc: 1383.78 ng/ml



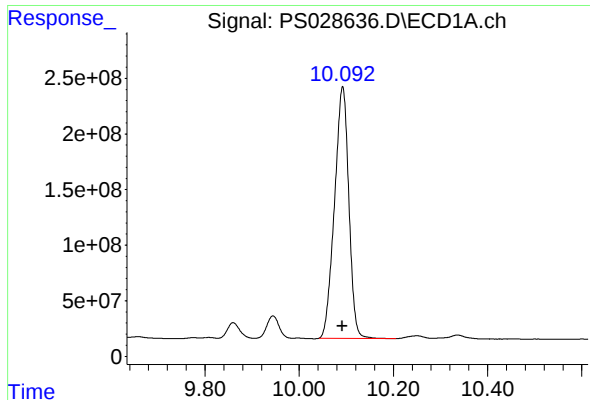
#12 2,4,5-T

R.T.: 9.520 min
Delta R.T.: 0.000 min
Response: 24241285481
Conc: 1292.49 ng/ml



#12 2,4,5-T

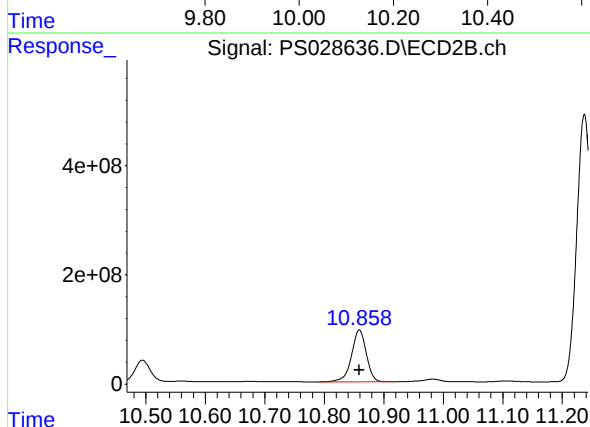
R.T.: 10.293 min
Delta R.T.: 0.000 min
Response: 12841234880
Conc: 1379.25 ng/ml



#13 2,4-DB

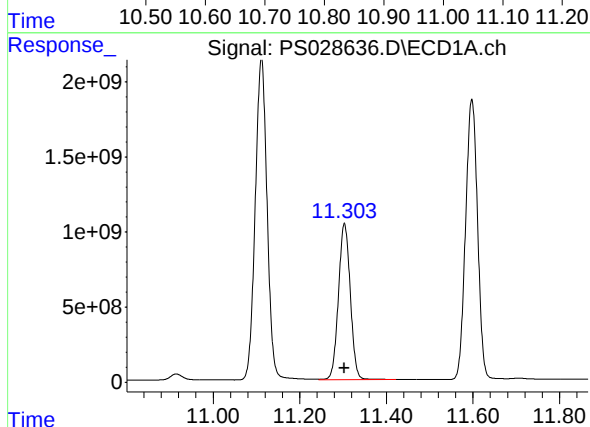
R.T.: 10.092 min
Delta R.T.: 0.000 min
Response: 4774157641
Conc: 1347.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



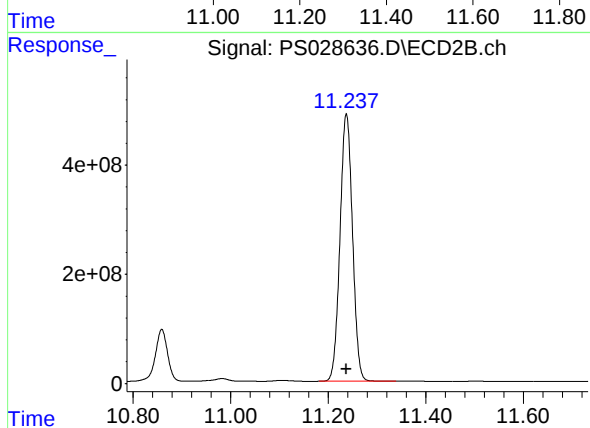
#13 2,4-DB

R.T.: 10.859 min
Delta R.T.: 0.000 min
Response: 1640825001
Conc: 1430.88 ng/ml



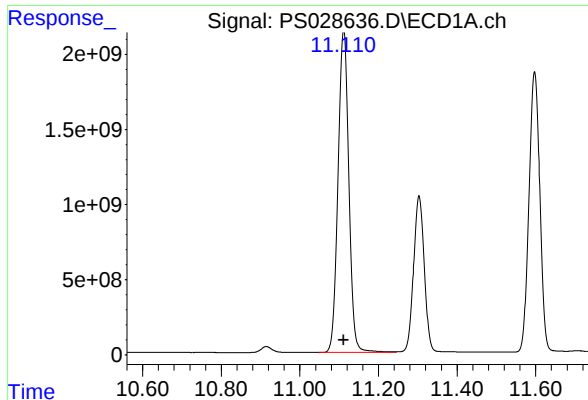
#14 DINOSEB

R.T.: 11.303 min
Delta R.T.: 0.000 min
Response: 19692331323
Conc: 1310.53 ng/ml



#14 DINOSEB

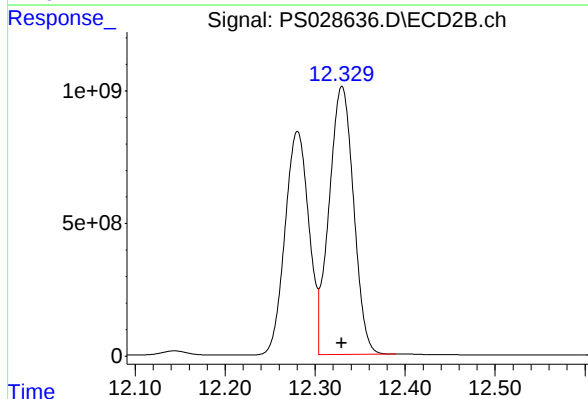
R.T.: 11.237 min
Delta R.T.: 0.000 min
Response: 8706066422
Conc: 1387.20 ng/ml



#15 Picloram

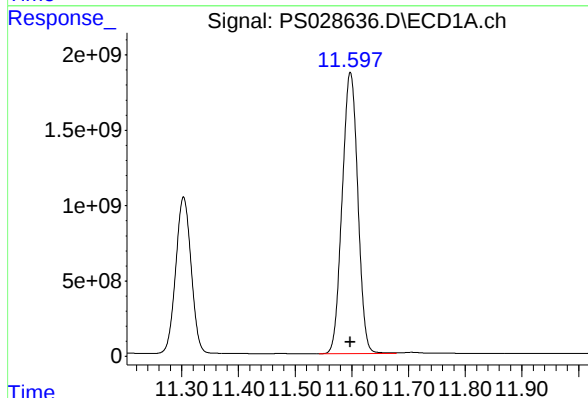
R.T.: 11.111 min
Delta R.T.: 0.000 min
Response: 40714301505
Conc: 1369.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



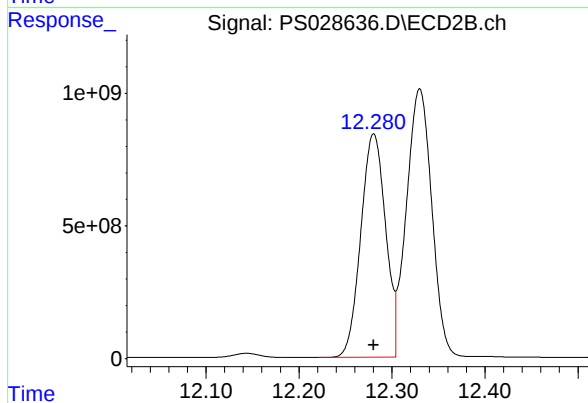
#15 Picloram

R.T.: 12.330 min
Delta R.T.: 0.000 min
Response: 19103714333
Conc: 1481.98 ng/ml



#16 DCPA

R.T.: 11.597 min
Delta R.T.: 0.000 min
Response: 35775236604
Conc: 1301.15 ng/ml



#16 DCPA

R.T.: 12.280 min
Delta R.T.: 0.000 min
Response: 15584359411
Conc: 1404.35 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
 Data File : PS028637.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Nov 2024 14:49
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS112624

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 26 15:05:36 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:44:30 2024
 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	7.227	7.724	1980.9E6	1002.6E6	738.487	744.275
Target Compounds							
1) T	Dalapon	2.628	2.688	1962.0E6	1488.4E6	676.123	681.562
2) T	3,5-DICHL...	6.399	6.681	2618.4E6	1364.1E6	683.717	694.502
3) T	4-Nitroph...	7.025	7.251	1149.2E6	613.9E6	668.536	673.089
5) T	DICAMBA	7.413	7.924	8040.3E6	4402.9E6	700.339	715.199
6) T	MCPD	7.596	8.027	526.7E6	308.0E6	72.178	71.502
7) T	MCPA	7.746	8.271	723.8E6	428.9E6	70.010	69.106
8) T	DICHLORPROP	8.121	8.639	2143.4E6	1123.0E6	688.514	702.495
9) T	2,4-D	8.351	8.969	2328.9E6	1186.2E6	690.639	701.491
10) T	Pentachlo...	8.649	9.496	32534.2E6	16552.8E6	737.860	723.117
11) T	2,4,5-TP ...	9.228	9.873	12963.2E6	6878.3E6	709.158	720.801
12) T	2,4,5-T	9.520	10.292	13302.2E6	6719.4E6	709.243	721.720
13) T	2,4-DB	10.092	10.858	2502.9E6	816.8E6	706.697	712.323
14) T	DINOSEB	11.303	11.237	10572.3E6	4473.7E6	703.591	712.831
15) T	Picloram	11.111	12.329	21598.5E6	9600.9E6	726.324	744.791
16) T	DCPA	11.597	12.280	19788.9E6	8102.2E6	719.724	730.114

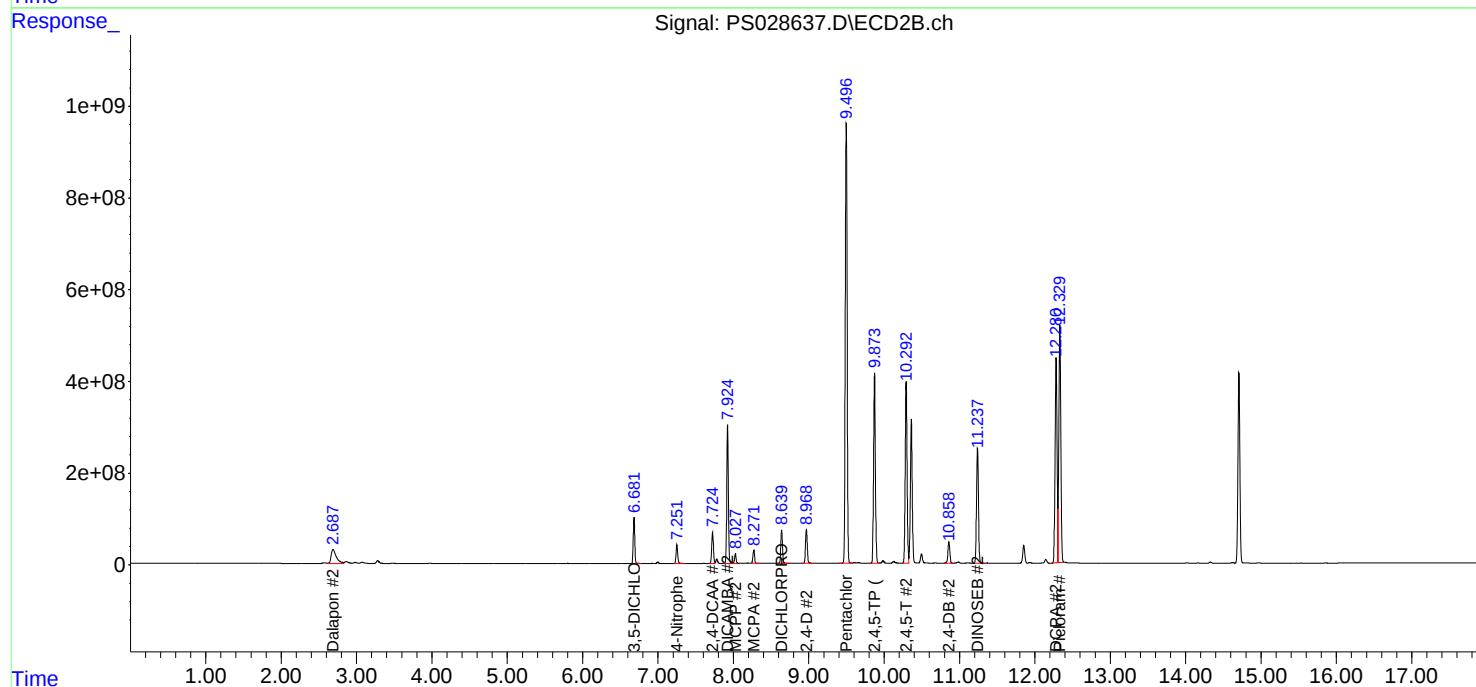
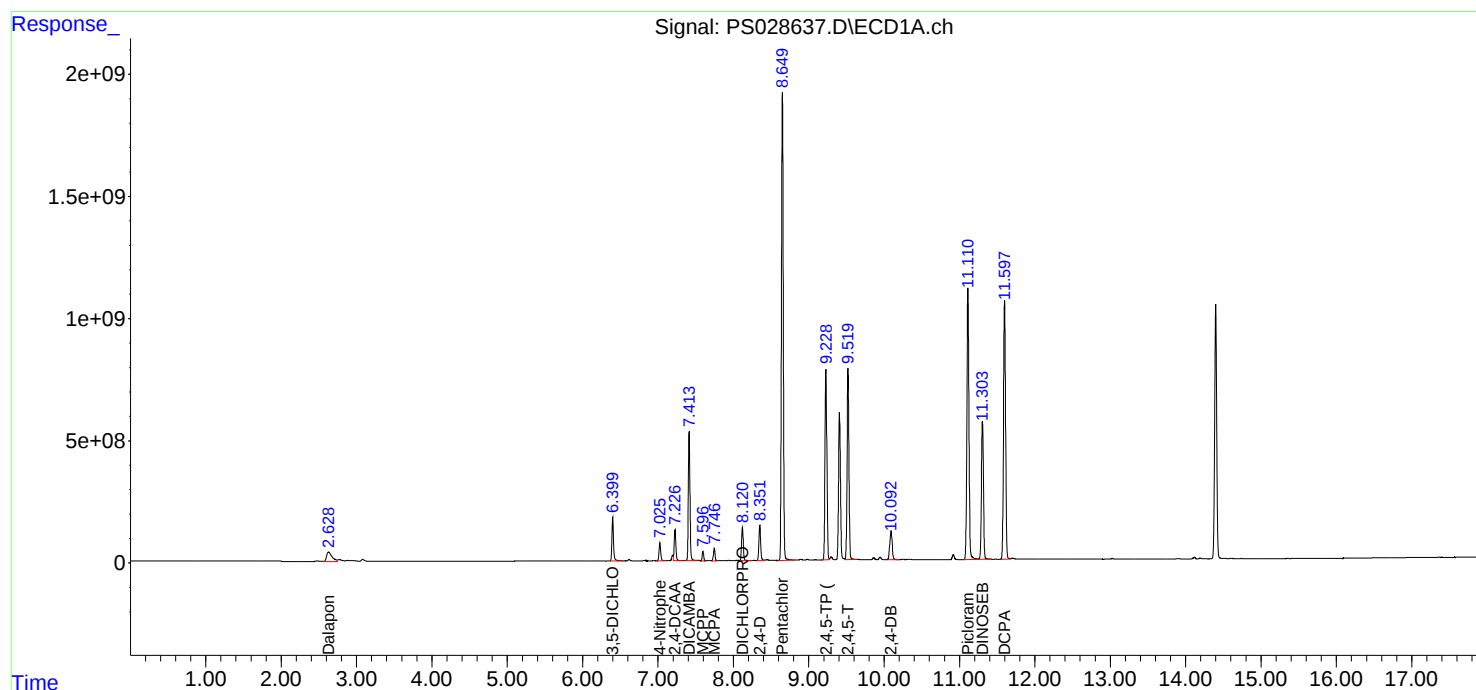
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

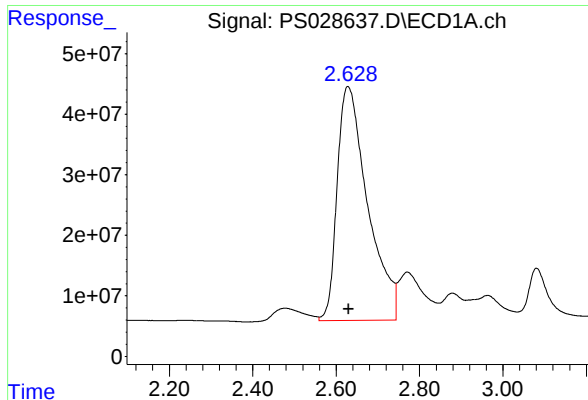
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
Data File : PS028637.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Nov 2024 14:49
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS112624

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 26 15:05:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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

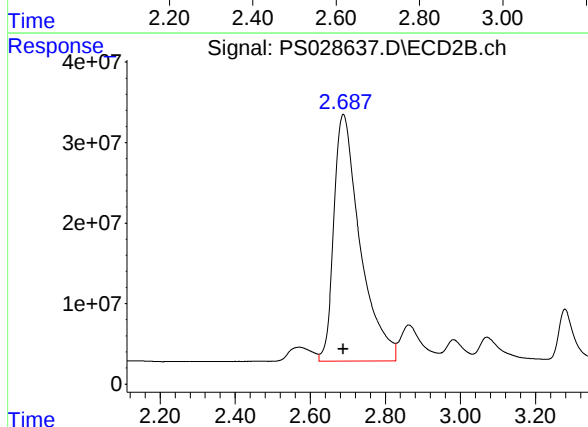




#1 Dalapon

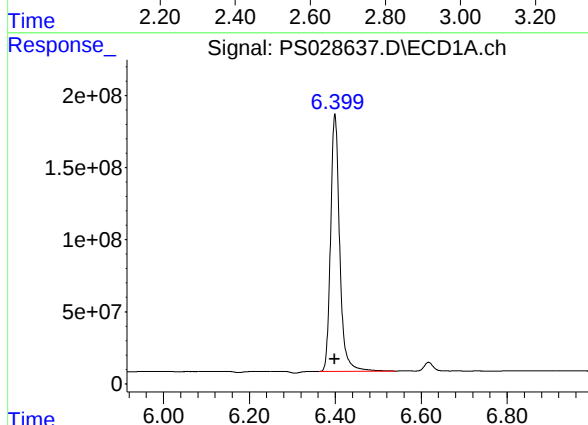
R.T.: 2.628 min
Delta R.T.: -0.002 min
Response: 1962004119
Conc: 676.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS112624



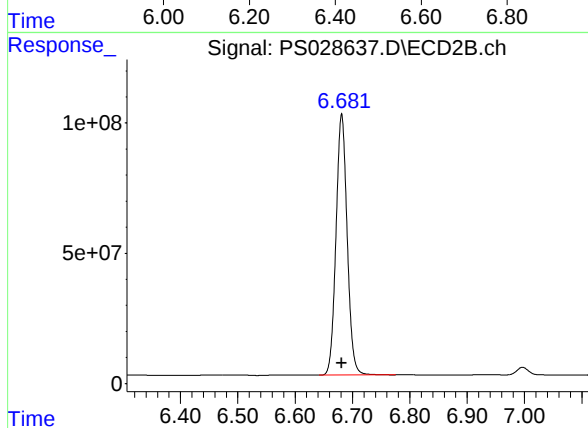
#1 Dalapon

R.T.: 2.688 min
Delta R.T.: 0.000 min
Response: 1488403206
Conc: 681.56 ng/ml



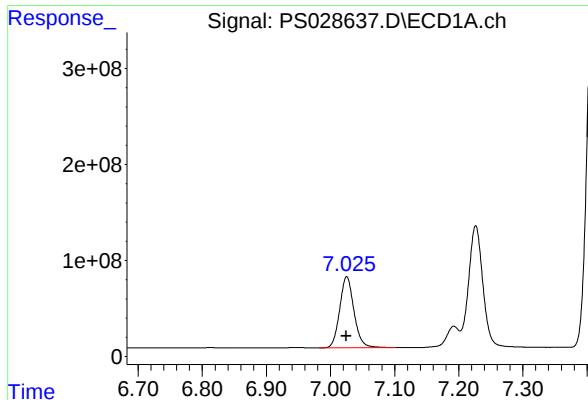
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.399 min
Delta R.T.: 0.000 min
Response: 2618399168
Conc: 683.72 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

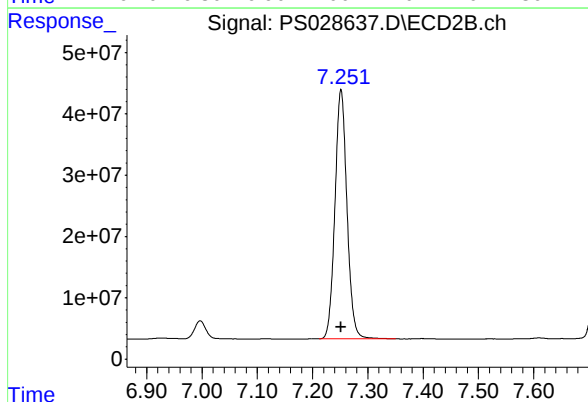
R.T.: 6.681 min
Delta R.T.: 0.000 min
Response: 1364065390
Conc: 694.50 ng/ml



#3 4-Nitrophenol

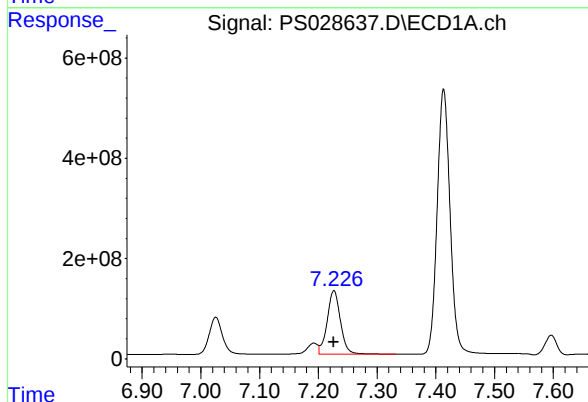
R.T.: 7.025 min
Delta R.T.: 0.000 min
Response: 1149195141
Conc: 668.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS112624



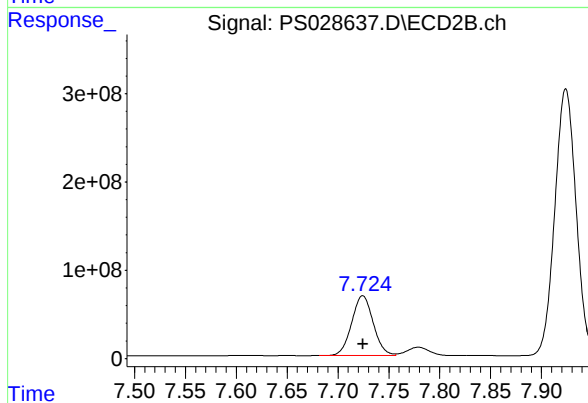
#3 4-Nitrophenol

R.T.: 7.251 min
Delta R.T.: 0.000 min
Response: 613947451
Conc: 673.09 ng/ml



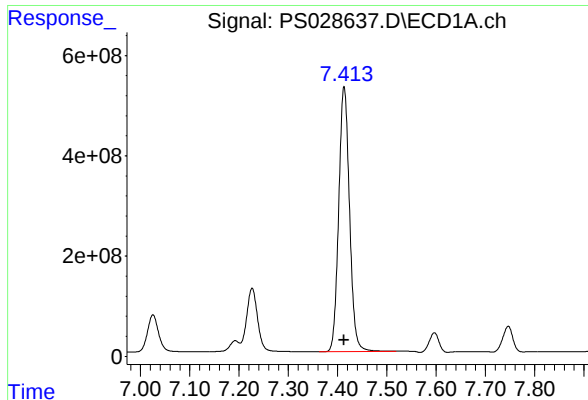
#4 2,4-DCAA

R.T.: 7.227 min
Delta R.T.: 0.000 min
Response: 1980875362
Conc: 738.49 ng/ml



#4 2,4-DCAA

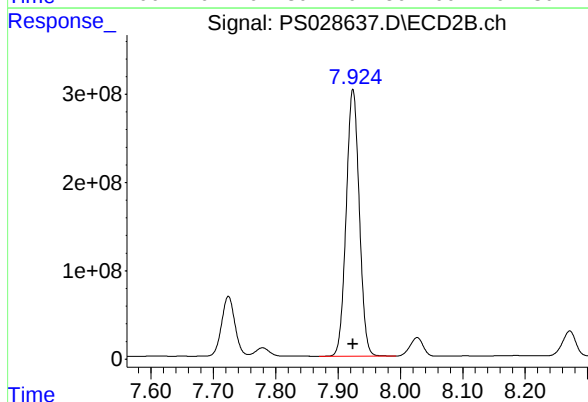
R.T.: 7.724 min
Delta R.T.: 0.000 min
Response: 1002560430
Conc: 744.28 ng/ml



#5 DICAMBA

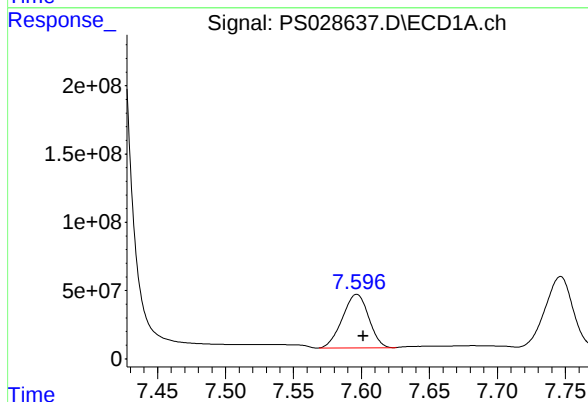
R.T.: 7.413 min
Delta R.T.: 0.000 min
Response: 8040262271
Conc: 700.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS112624



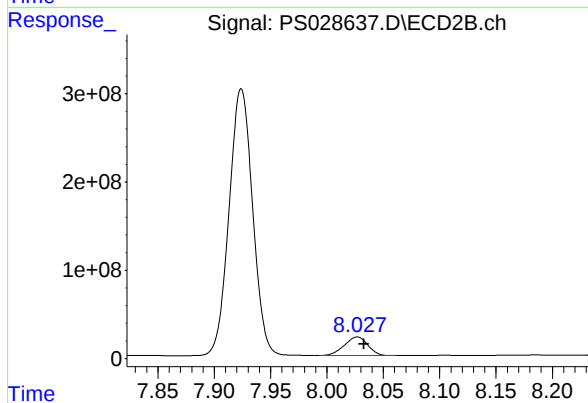
#5 DICAMBA

R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 4402918269
Conc: 715.20 ng/ml



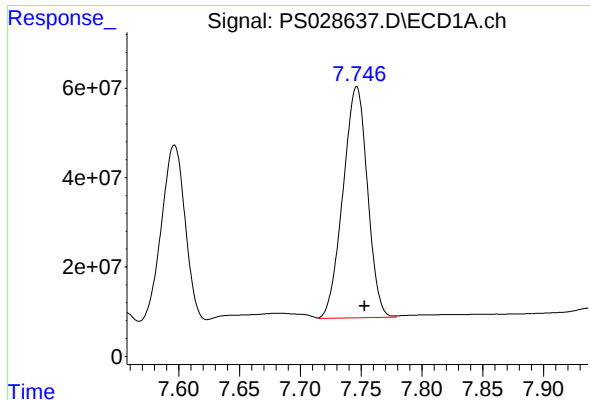
#6 MCPP

R.T.: 7.596 min
Delta R.T.: -0.005 min
Response: 526718689
Conc: 72.18 ug/ml



#6 MCPP

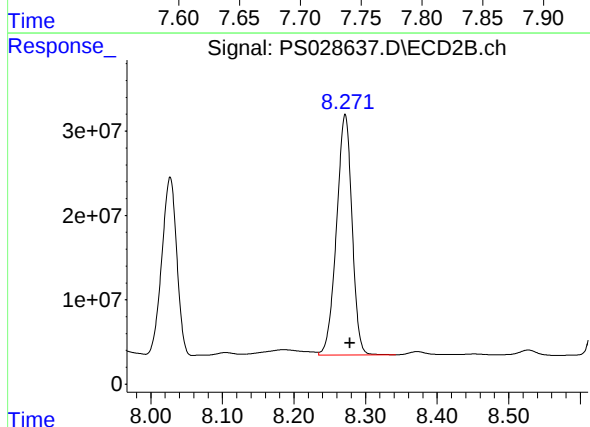
R.T.: 8.027 min
Delta R.T.: -0.006 min
Response: 307998496
Conc: 71.50 ug/ml



#7 MCPA

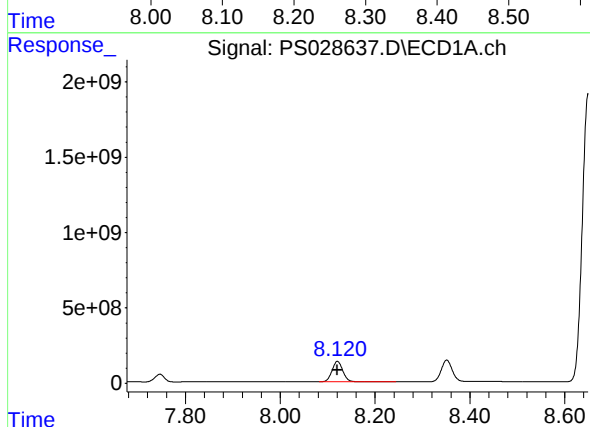
R.T.: 7.746 min
Delta R.T.: -0.007 min
Response: 723837694
Conc: 70.01 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS112624



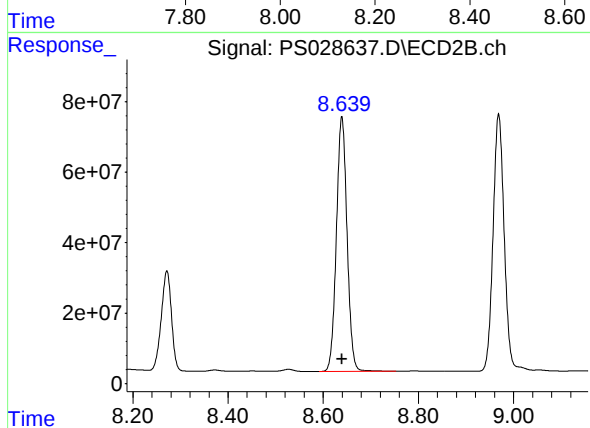
#7 MCPA

R.T.: 8.271 min
Delta R.T.: -0.007 min
Response: 428877642
Conc: 69.11 ug/ml



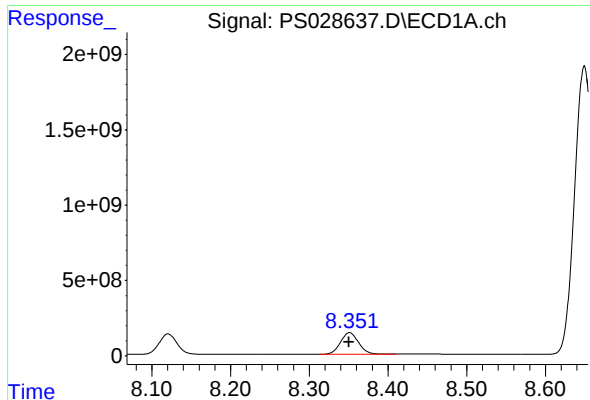
#8 DICHLORPROP

R.T.: 8.121 min
Delta R.T.: 0.000 min
Response: 2143414141
Conc: 688.51 ng/ml



#8 DICHLORPROP

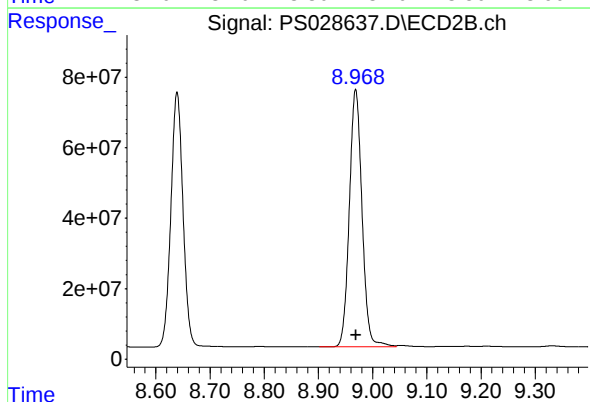
R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 1123020906
Conc: 702.49 ng/ml



#9 2,4-D

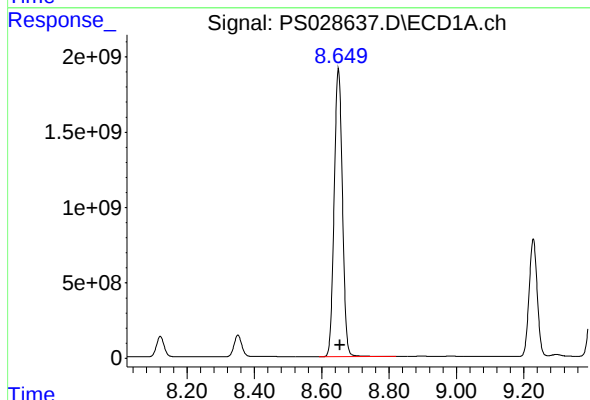
R.T.: 8.351 min
Delta R.T.: 0.000 min
Response: 2328938496
Conc: 690.64 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS112624



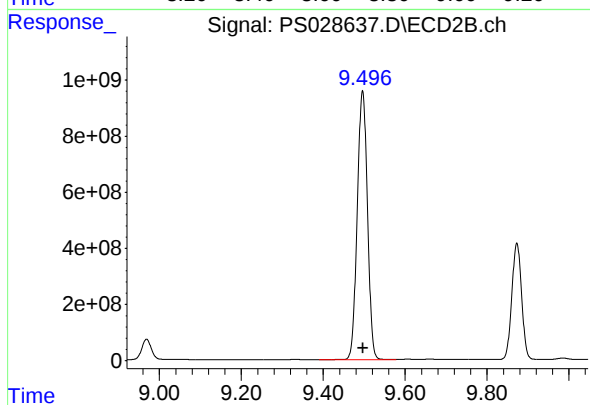
#9 2,4-D

R.T.: 8.969 min
Delta R.T.: 0.000 min
Response: 1186199775
Conc: 701.49 ng/ml



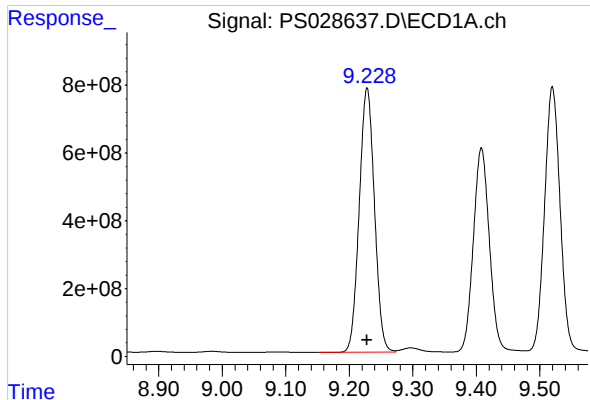
#10 Pentachlorophenol

R.T.: 8.649 min
Delta R.T.: -0.004 min
Response: 32534160281
Conc: 737.86 ng/ml



#10 Pentachlorophenol

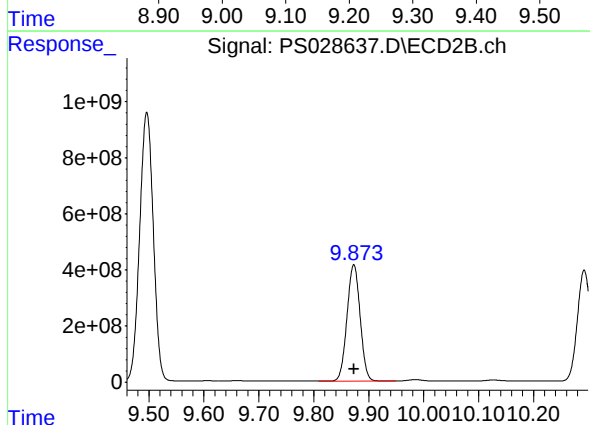
R.T.: 9.496 min
Delta R.T.: -0.001 min
Response: 16552789855
Conc: 723.12 ng/ml



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

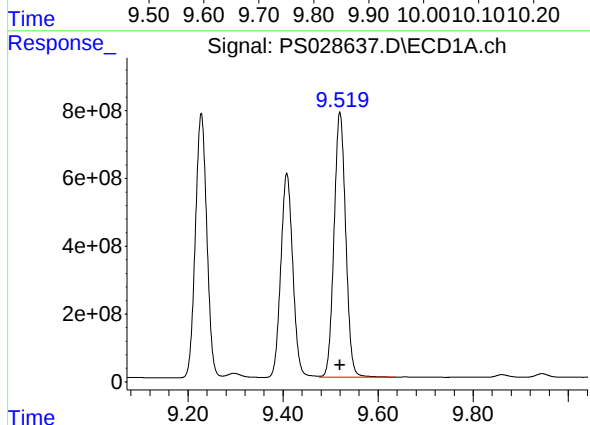
R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 12963248255
Conc: 709.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS112624



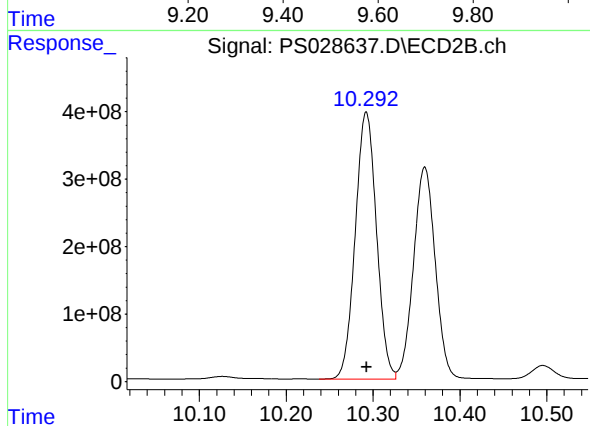
#11 2,4,5-TP (SILVEX)

R.T.: 9.873 min
Delta R.T.: 0.000 min
Response: 6878262048
Conc: 720.80 ng/ml



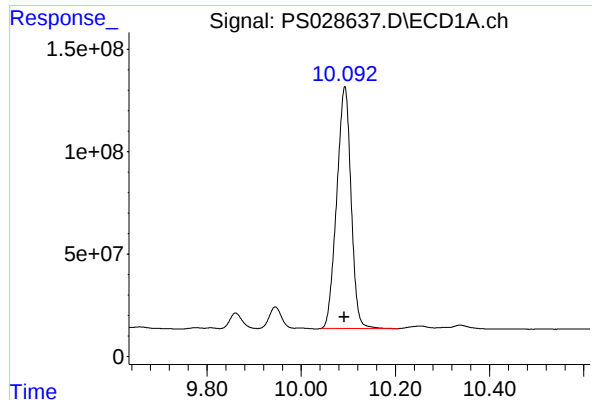
#12 2,4,5-T

R.T.: 9.520 min
Delta R.T.: 0.000 min
Response: 13302205418
Conc: 709.24 ng/ml



#12 2,4,5-T

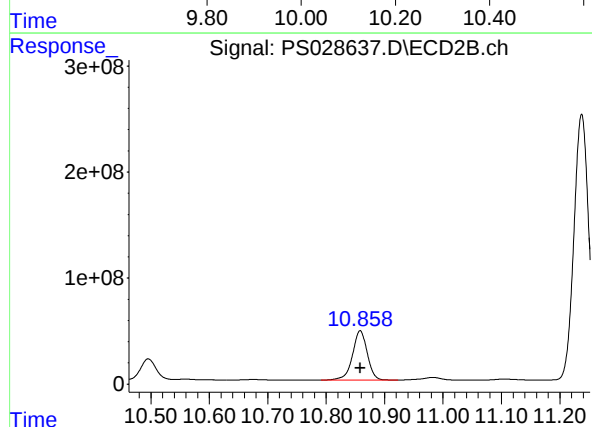
R.T.: 10.292 min
Delta R.T.: 0.000 min
Response: 6719421647
Conc: 721.72 ng/ml



#13 2,4-DB

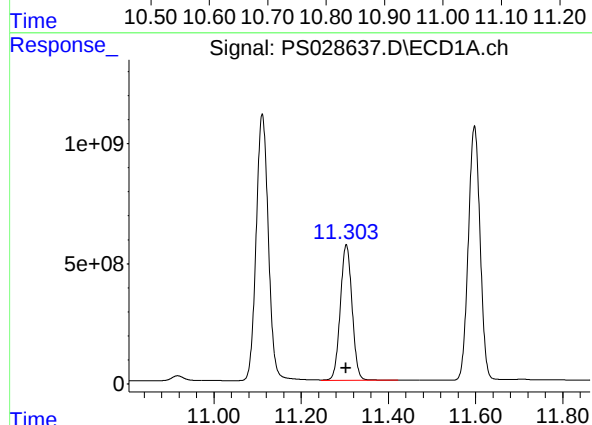
R.T.: 10.092 min
Delta R.T.: 0.000 min
Response: 2502915556
Conc: 706.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS112624



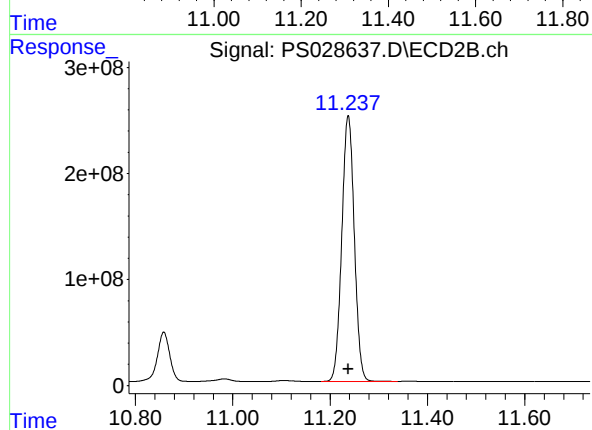
#13 2,4-DB

R.T.: 10.858 min
Delta R.T.: 0.000 min
Response: 816835202
Conc: 712.32 ng/ml



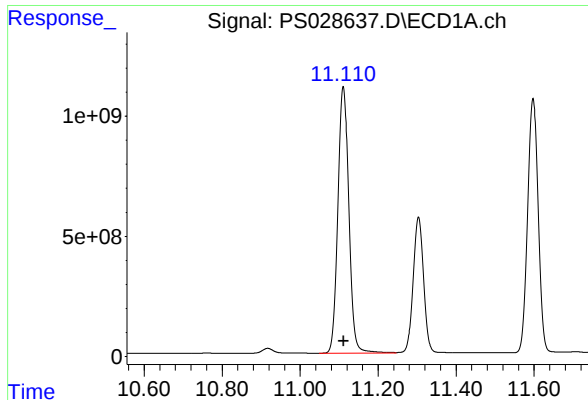
#14 DINOSEB

R.T.: 11.303 min
Delta R.T.: 0.000 min
Response: 10572321746
Conc: 703.59 ng/ml



#14 DINOSEB

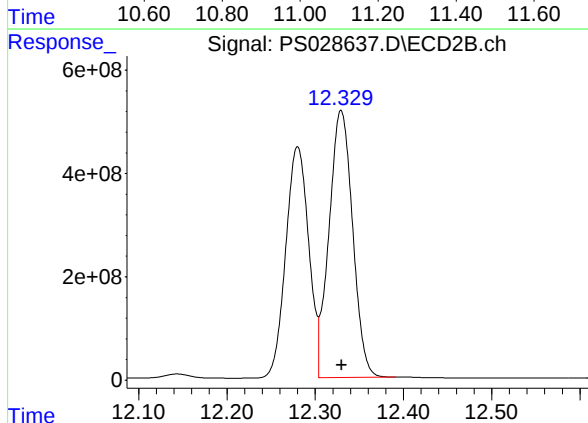
R.T.: 11.237 min
Delta R.T.: 0.000 min
Response: 4473743987
Conc: 712.83 ng/ml



#15 Picloram

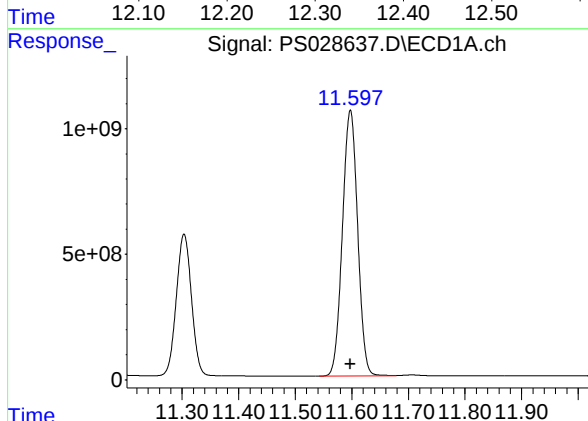
R.T.: 11.111 min
Delta R.T.: 0.000 min
Response: 21598543196
Conc: 726.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS112624



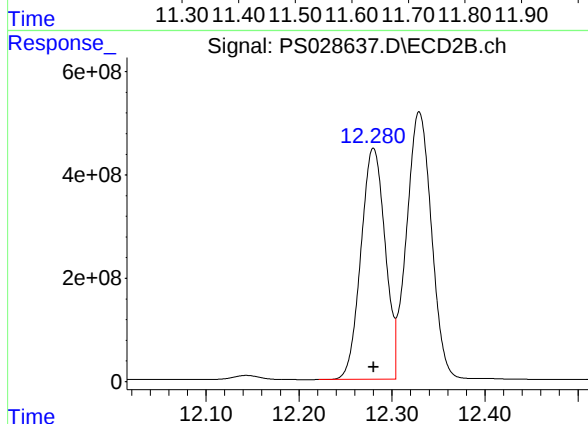
#15 Picloram

R.T.: 12.329 min
Delta R.T.: 0.000 min
Response: 9600873413
Conc: 744.79 ng/ml



#16 DCPA

R.T.: 11.597 min
Delta R.T.: 0.000 min
Response: 19788915190
Conc: 719.72 ng/ml



#16 DCPA

R.T.: 12.280 min
Delta R.T.: 0.000 min
Response: 8102231871
Conc: 730.11 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5117 **SAS No.:** P5117 **SDG NO.:** P5117

Continuing Calib Date: 12/06/2024 **Initial Calibration Date(s):** 11/26/2024 11/26/2024

Continuing Calib Time: 12:37 **Initial Calibration Time(s):** 12:48 14:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.23	7.23	7.13	7.33	0.00
2,4-D	8.35	8.35	8.25	8.45	0.00
2,4,5-TP(Silvex)	9.23	9.23	9.13	9.33	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: P5117 SAS No.: P5117 SDG NO.: P5117

Continuing Calib Date: 12/06/2024 Initial Calibration Date(s): 11/26/2024 11/26/2024

Continuing Calib Time: 12:37 Initial Calibration Time(s): 12:48 14:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.72	7.72	7.62	7.82	0.00
2,4-D	8.96	8.97	8.87	9.07	0.01
2,4,5-TP(Silvex)	9.87	9.87	9.77	9.97	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: P5117 SAS No.: P5117 SDG NO.: P5117

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/26/2024 11/26/2024

Client Sample No.: CCAL01 Date Analyzed: 12/06/2024

Lab Sample No.: HSTDCCC750 Data File : PS028719.D Time Analyzed: 12:37

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.229	9.128	9.328	771.690	712.500	8.3
2,4-D	8.352	8.251	8.451	743.690	705.000	5.5
2,4-DCAA	7.227	7.126	7.326	807.960	750.000	7.7



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: P5117 SAS No.: P5117 SDG NO.: P5117

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/26/2024 11/26/2024

Client Sample No.: CCAL01 Date Analyzed: 12/06/2024

Lab Sample No.: HSTDCCC750 Data File : PS028719.D Time Analyzed: 12:37

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.865	9.773	9.973	763.580	712.500	7.2
2,4-D	8.961	8.869	9.069	697.110	705.000	-1.1
2,4-DCAA	7.718	7.624	7.824	720.140	750.000	-4.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
 Data File : PS028719.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Dec 2024 12:37
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024

Supervised By :Ankita Jodhani 12/09/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 22:56:36 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:44:30 2024
 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	7.227	7.718	2167.2E6	970.1E6	807.961	720.142
Target Compounds							
1) T	Dalapon	2.626	2.679	2209.7E6	1474.3E6	761.491m	675.114
2) T	3,5-DICHL...	6.400	6.675	2885.4E6	1328.2E6	753.425	676.219
3) T	4-Nitroph...	7.026	7.245	1269.2E6	629.8E6	738.332	690.496
5) T	DICAMBA	7.415	7.916	8800.3E6	4498.8E6	766.542	730.773
6) T	MCPD	7.598	8.021	571.5E6	283.5E6	78.317	65.817
7) T	MCPA	7.748	8.265	783.1E6	378.5E6	75.743	60.988
8) T	DICHLORPROP	8.122	8.631	2307.4E6	1127.0E6	741.196	705.012
9) T	2,4-D	8.352	8.961	2507.8E6	1178.8E6	743.694	697.113
10) T	Pentachlo...	8.651	9.488	35492.1E6	17670.3E6	804.943	771.935
11) T	2,4,5-TP ...	9.229	9.865	14106.3E6	7286.4E6	771.690	763.576
12) T	2,4,5-T	9.521	10.284	14465.7E6	7007.6E6	771.280	752.671
13) T	2,4-DB	10.093	10.850	2681.1E6	805.5E6	756.998	702.438
14) T	DINOSEB	11.304	11.229	11379.6E6	4632.8E6	757.318	738.180
15) T	Picloram	11.112	12.321	23221.6E6	10096.4E6	780.906	783.228
16) T	DCPA	11.598	12.272	21396.0E6	8712.9E6	778.174	785.140

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028719.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 12:37
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

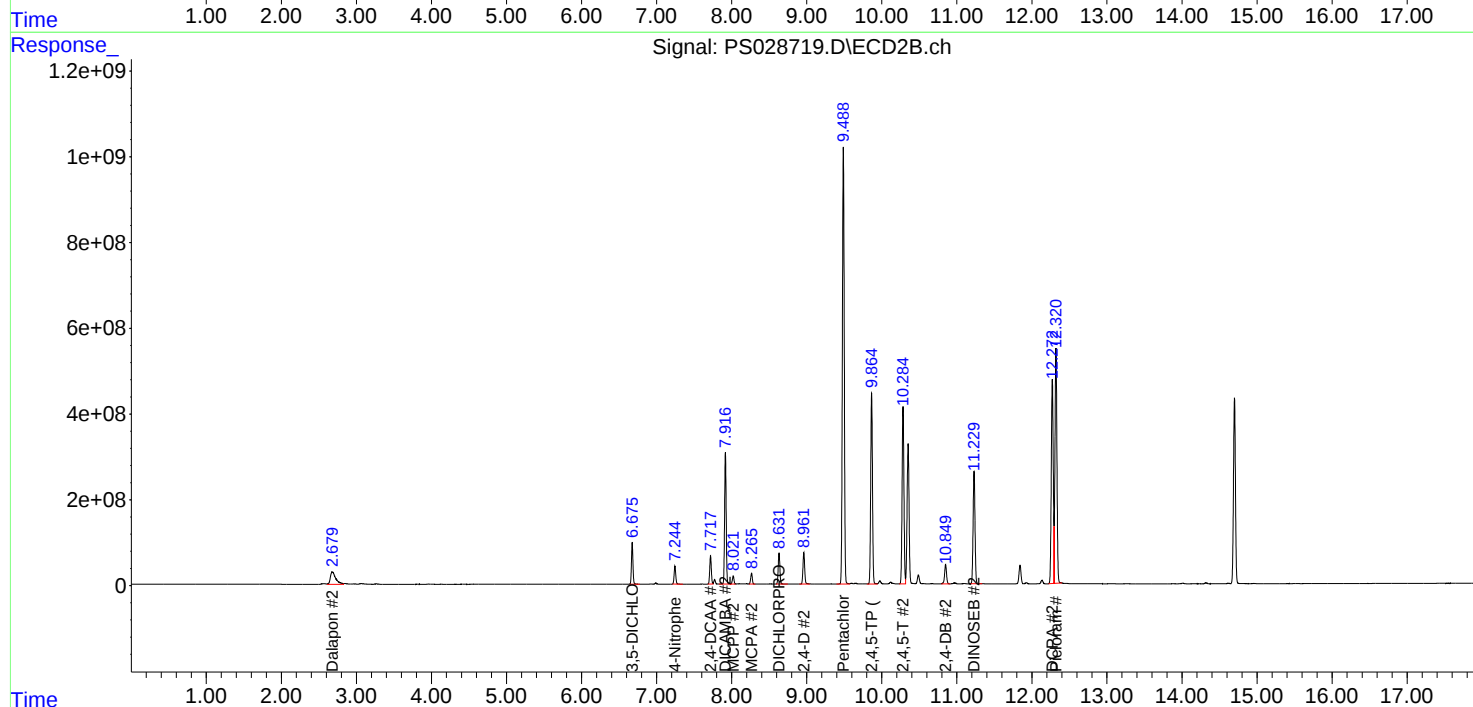
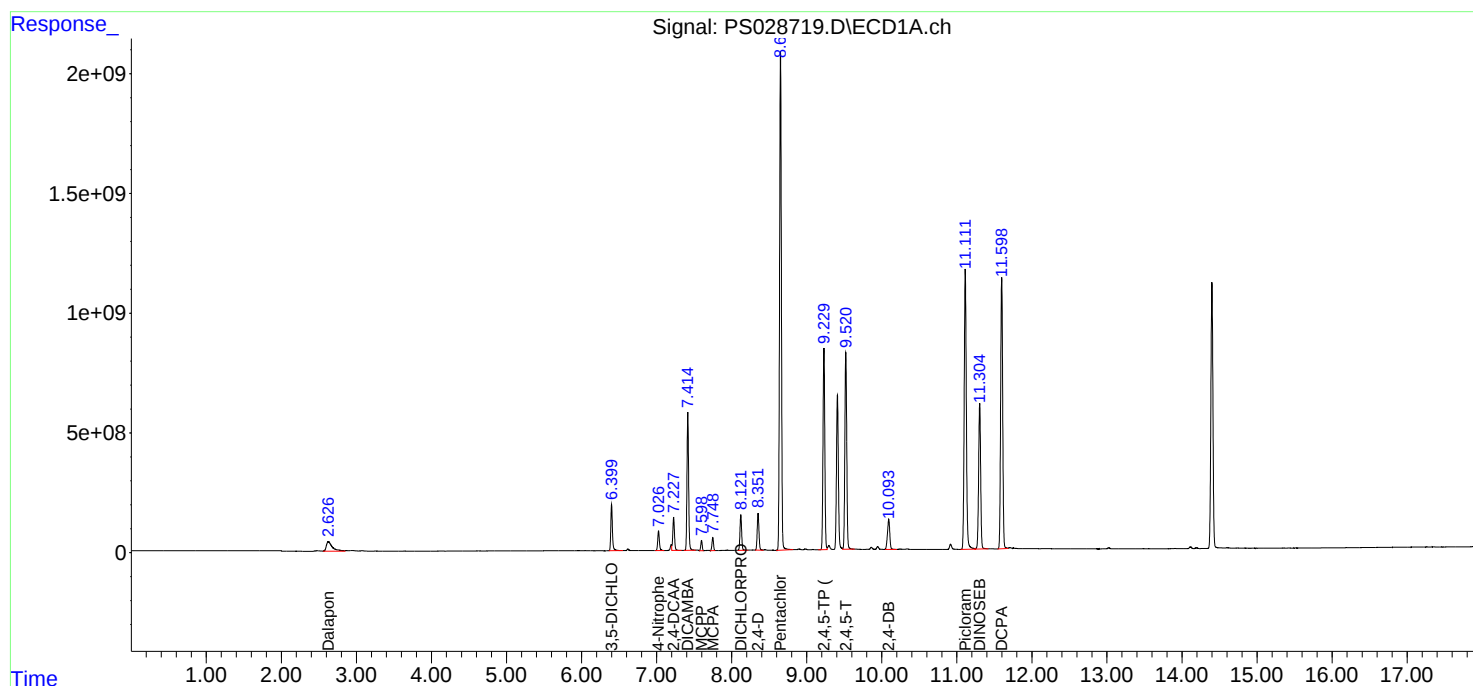
Manual Integrations

APPROVED

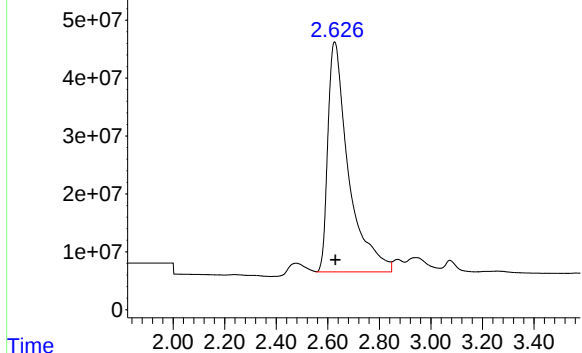
Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:56:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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: PS028719.D\ECD1A.ch



#1 Dalapon

R.T.: 2.626 min
Delta R.T.: -0.004 min
Response: 2209730069
Conc: 761.49 ng/ml

Instrument :

ECD_S

ClientSampleId :

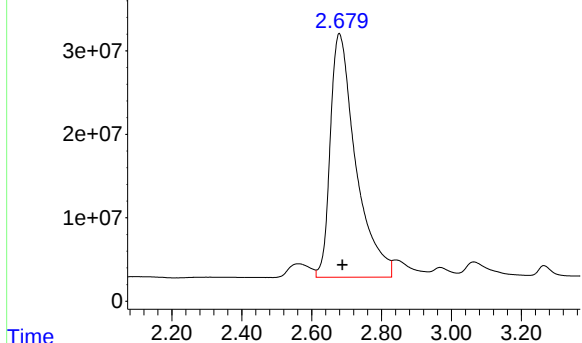
HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

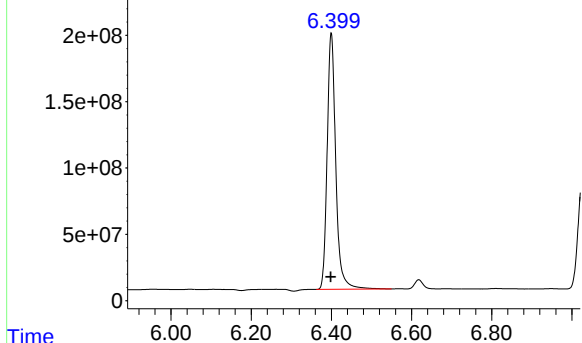
Time Response_ Signal: PS028719.D\ECD2B.ch



#1 Dalapon

R.T.: 2.679 min
Delta R.T.: -0.009 min
Response: 1474321787
Conc: 675.11 ng/ml

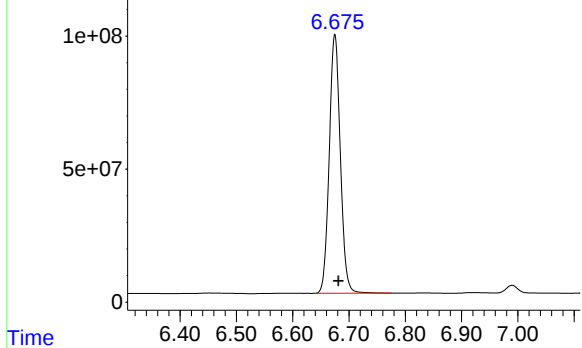
Time Response_ Signal: PS028719.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.400 min
Delta R.T.: 0.000 min
Response: 2885356077
Conc: 753.42 ng/ml

Time Response_ Signal: PS028719.D\ECD2B.ch

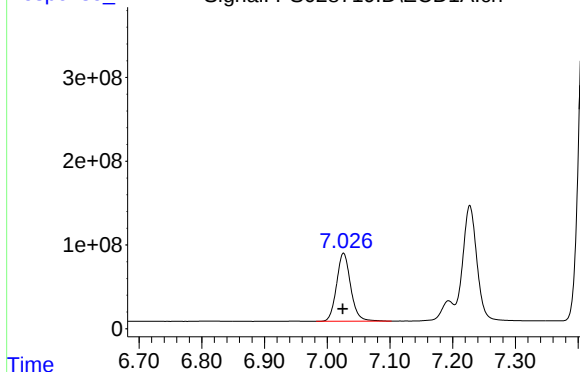


#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.675 min
Delta R.T.: -0.006 min
Response: 1328155535
Conc: 676.22 ng/ml

Signal: PS028719.D\ECD1A.ch

#3 4-Nitrophenol



R.T.: 7.026 min
Delta R.T.: 0.001 min
Response: 1269173963
Conc: 738.33 ng/ml

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

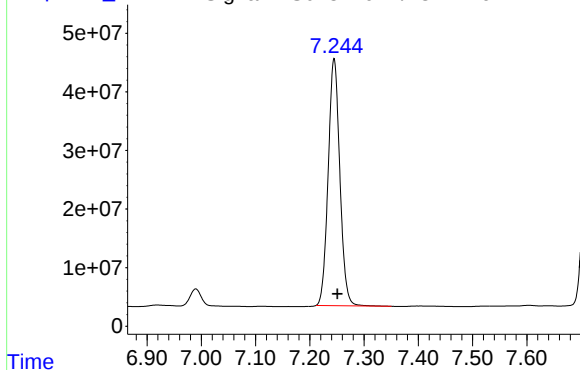
Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

Signal: PS028719.D\ECD2B.ch

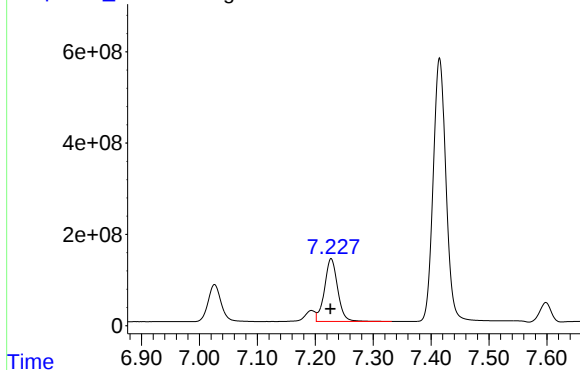
#3 4-Nitrophenol



R.T.: 7.245 min
Delta R.T.: -0.007 min
Response: 629825200
Conc: 690.50 ng/ml

Signal: PS028719.D\ECD1A.ch

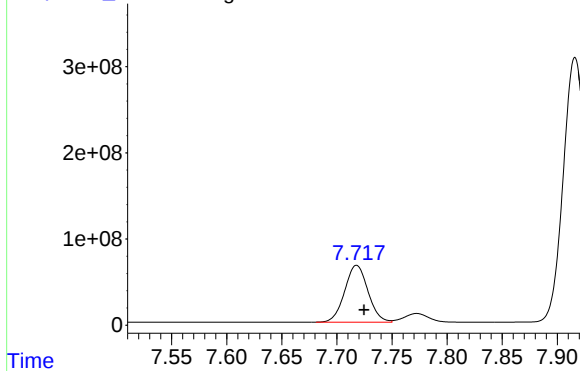
#4 2,4-DCAA



R.T.: 7.227 min
Delta R.T.: 0.001 min
Response: 2167227673
Conc: 807.96 ng/ml

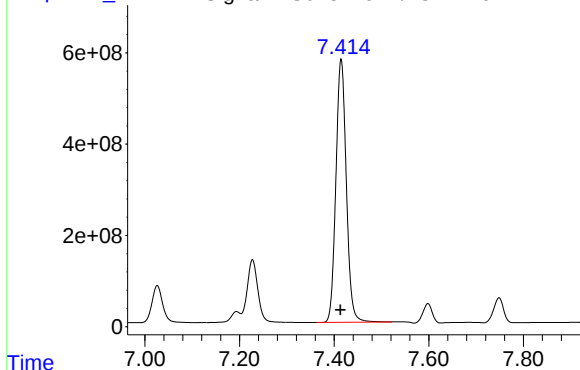
Signal: PS028719.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.718 min
Delta R.T.: -0.007 min
Response: 970053160
Conc: 720.14 ng/ml

Response_ Signal: PS028719.D\ECD1A.ch



#5 DICAMBA

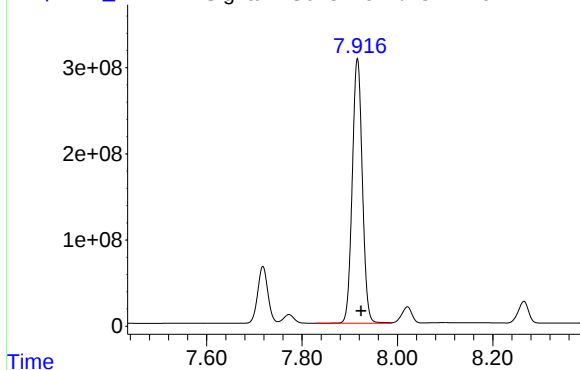
R.T.: 7.415 min
Delta R.T.: 0.002 min
Response: 8800314087
Conc: 766.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

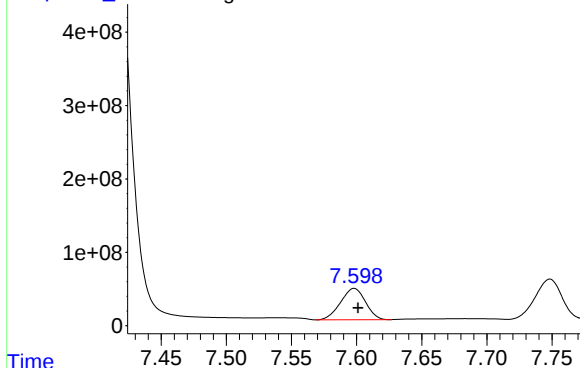
Response_ Signal: PS028719.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.916 min
Delta R.T.: -0.008 min
Response: 4498794752
Conc: 730.77 ng/ml

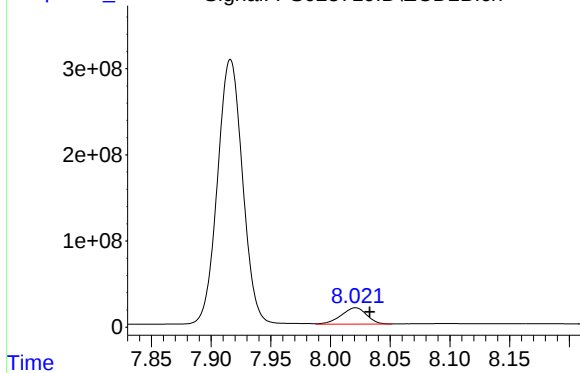
Response_ Signal: PS028719.D\ECD1A.ch



#6 MCP

R.T.: 7.598 min
Delta R.T.: -0.003 min
Response: 571514070
Conc: 78.32 ug/ml

Response_ Signal: PS028719.D\ECD2B.ch

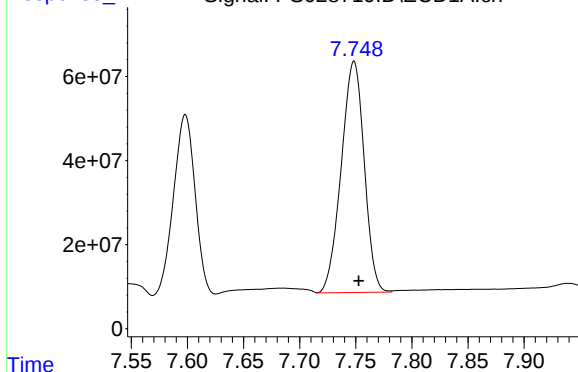


#6 MCP

R.T.: 8.021 min
Delta R.T.: -0.012 min
Response: 283507352
Conc: 65.82 ug/ml

Response_ Signal: PS028719.D\ECD1A.ch

#7 MCPA



R.T.: 7.748 min
Delta R.T.: -0.005 min
Response: 783109692
Conc: 75.74 ug/ml

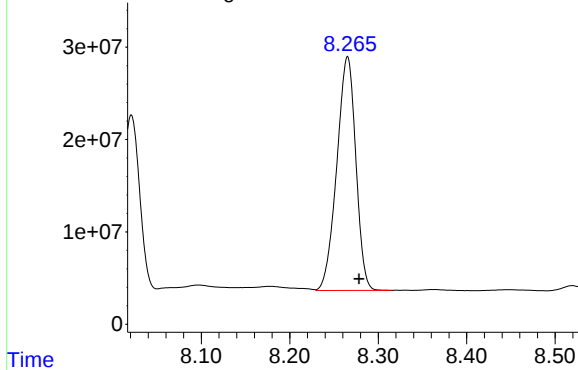
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

Response_ Signal: PS028719.D\ECD2B.ch

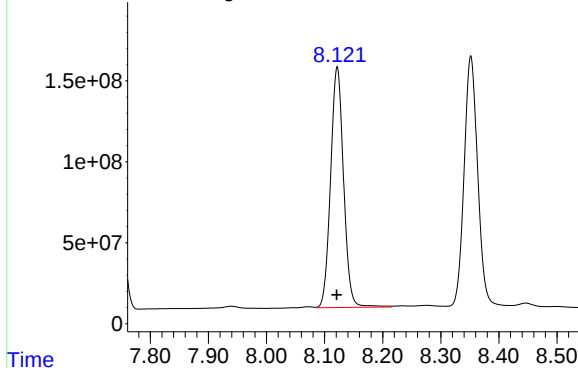
#7 MCPA



R.T.: 8.265 min
Delta R.T.: -0.013 min
Response: 378493937
Conc: 60.99 ug/ml

Response_ Signal: PS028719.D\ECD1A.ch

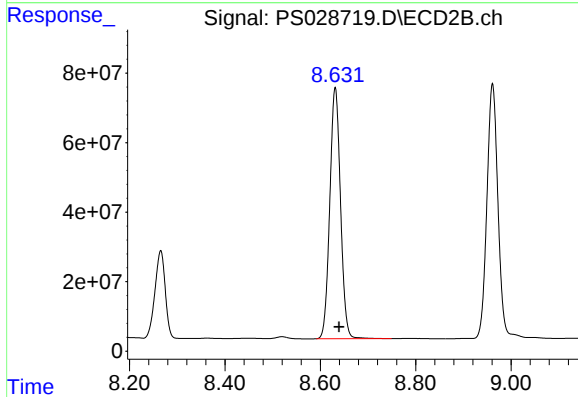
#8 DICHLORPROP



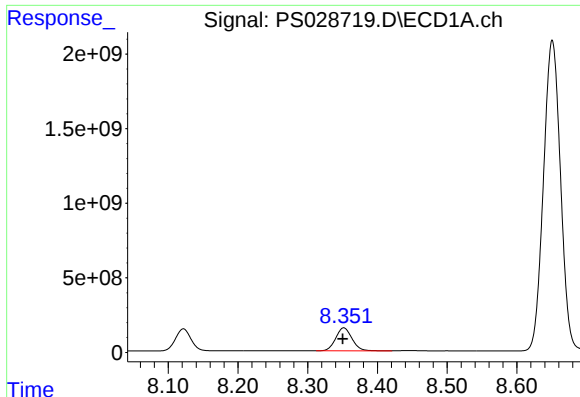
R.T.: 8.122 min
Delta R.T.: 0.001 min
Response: 2307421062
Conc: 741.20 ng/ml

Response_ Signal: PS028719.D\ECD2B.ch

#8 DICHLORPROP



R.T.: 8.631 min
Delta R.T.: -0.008 min
Response: 1127045813
Conc: 705.01 ng/ml



#9 2,4-D

R.T.: 8.352 min
Delta R.T.: 0.002 min
Response: 2507846794
Conc: 743.69 ng/ml

Instrument :

ECD_S

ClientSampleId :

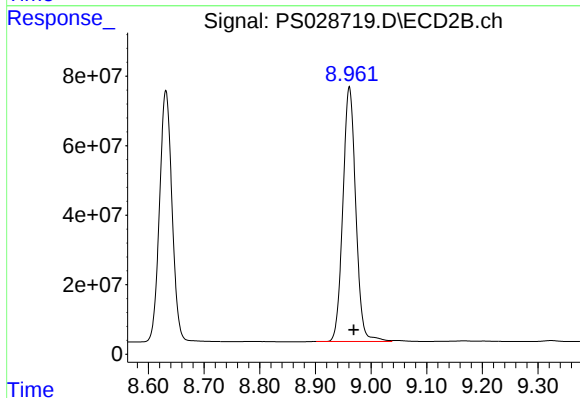
HSTDCCC750

Manual Integrations

APPROVED

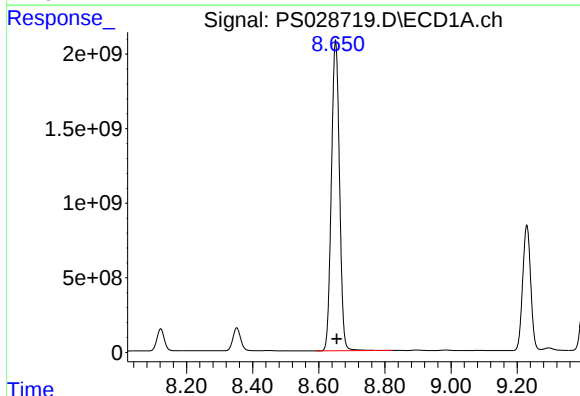
Reviewed By :Abdul Mirza 12/09/2024

Supervised By :Ankita Jodhani 12/09/2024



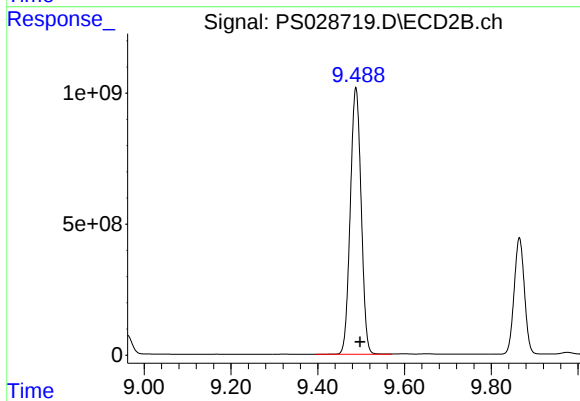
#9 2,4-D

R.T.: 8.961 min
Delta R.T.: -0.008 min
Response: 1178797408
Conc: 697.11 ng/ml



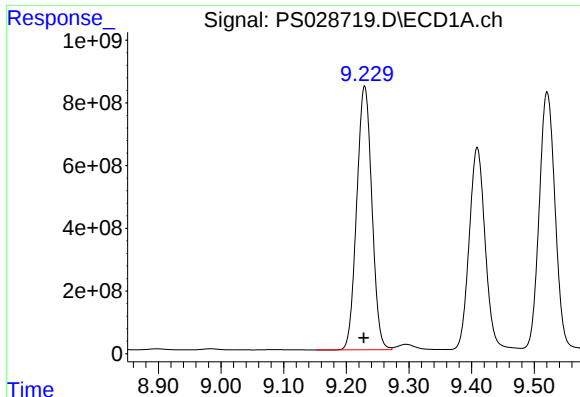
#10 Pentachlorophenol

R.T.: 8.651 min
Delta R.T.: -0.003 min
Response: 35492056772
Conc: 804.94 ng/ml



#10 Pentachlorophenol

R.T.: 9.488 min
Delta R.T.: -0.009 min
Response: 17670263320
Conc: 771.93 ng/ml



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

R.T.: 9.229 min
Delta R.T.: 0.001 min
Response: 14106328488
Conc: 771.69 ng/ml

Instrument :

ECD_S

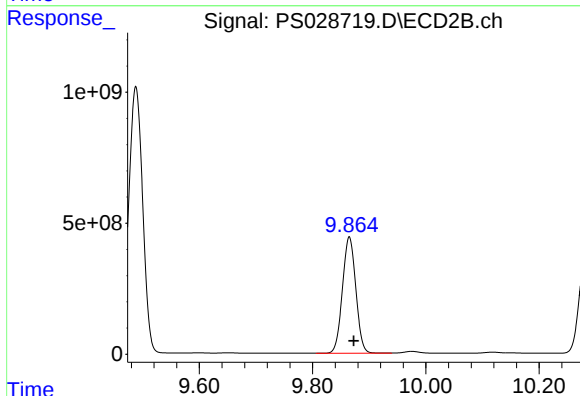
ClientSampleId :

HSTDCCC750

Manual Integrations

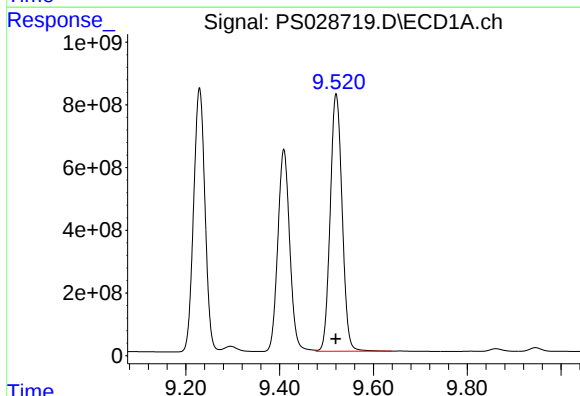
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



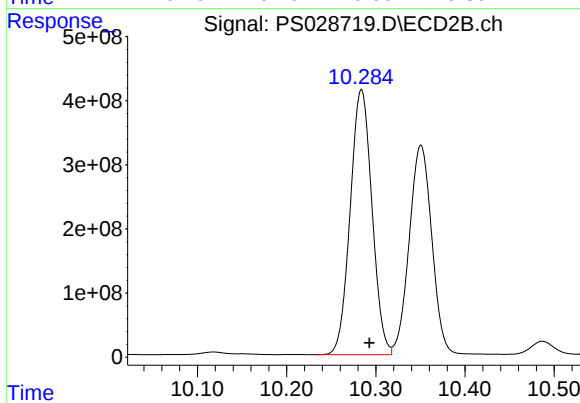
#11 2,4,5-TP (SILVEX)

R.T.: 9.865 min
Delta R.T.: -0.008 min
Response: 7286441487
Conc: 763.58 ng/ml



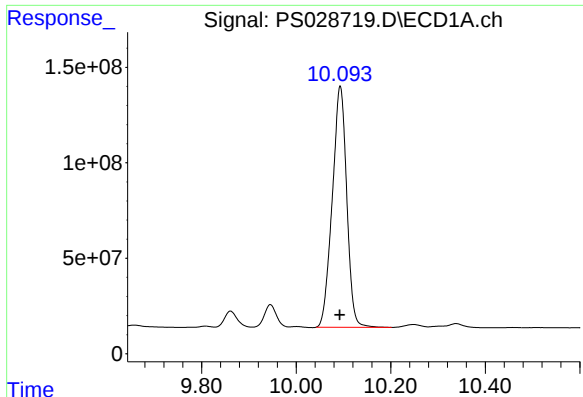
#12 2,4,5-T

R.T.: 9.521 min
Delta R.T.: 0.000 min
Response: 14465746991
Conc: 771.28 ng/ml



#12 2,4,5-T

R.T.: 10.284 min
Delta R.T.: -0.009 min
Response: 7007581340
Conc: 752.67 ng/ml



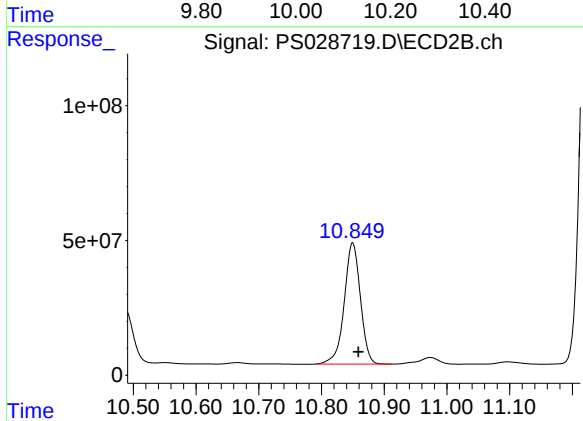
#13 2,4-DB

R.T.: 10.093 min
Delta R.T.: 0.001 min
Response: 2681066420
Conc: 757.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

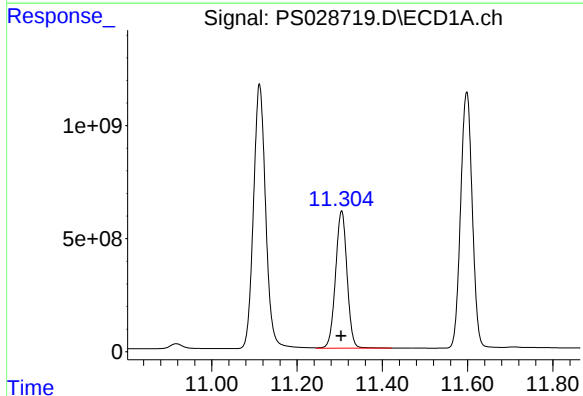
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



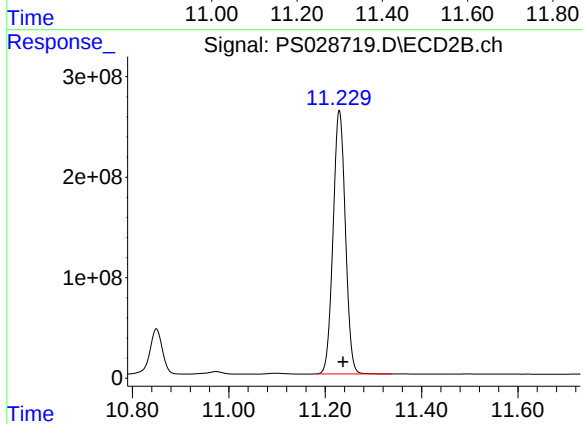
#13 2,4-DB

R.T.: 10.850 min
Delta R.T.: -0.009 min
Response: 805500820
Conc: 702.44 ng/ml



#14 DINOSEB

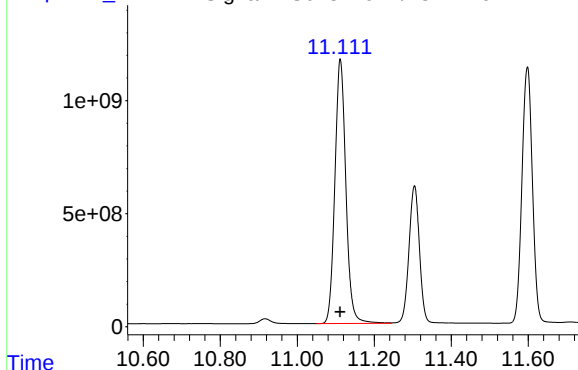
R.T.: 11.304 min
Delta R.T.: 0.001 min
Response: 11379627965
Conc: 757.32 ng/ml



#14 DINOSEB

R.T.: 11.229 min
Delta R.T.: -0.008 min
Response: 4632834644
Conc: 738.18 ng/ml

Response_ Signal: PS028719.D\ECD1A.ch



#15 Picloram

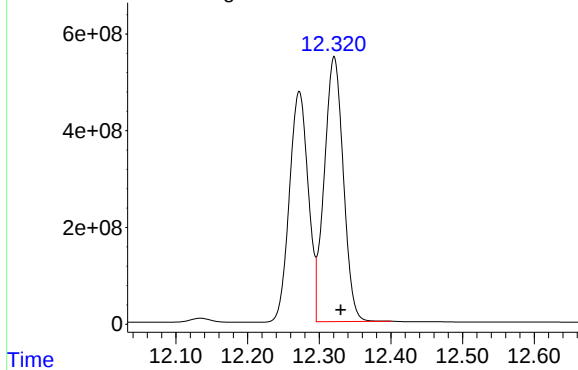
R.T.: 11.112 min
Delta R.T.: 0.000 min
Response: 23221618684
Conc: 780.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

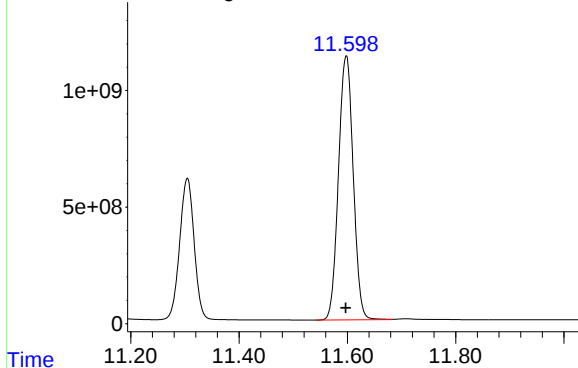
Response_ Signal: PS028719.D\ECD2B.ch



#15 Picloram

R.T.: 12.321 min
Delta R.T.: -0.009 min
Response: 10096352612
Conc: 783.23 ng/ml

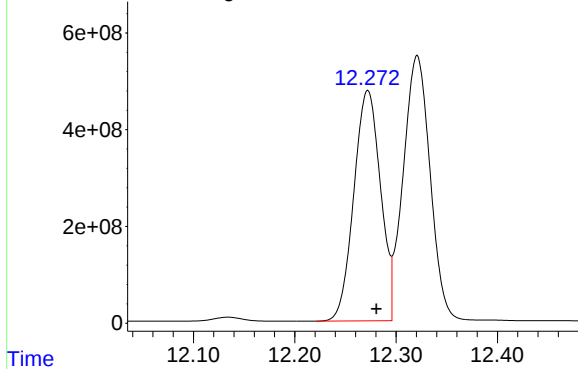
Response_ Signal: PS028719.D\ECD1A.ch



#16 DCPA

R.T.: 11.598 min
Delta R.T.: 0.000 min
Response: 21396000030
Conc: 778.17 ng/ml

Response_ Signal: PS028719.D\ECD2B.ch



#16 DCPA

R.T.: 12.272 min
Delta R.T.: -0.008 min
Response: 8712870037
Conc: 785.14 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: P5117 SAS No.: P5117 SDG NO.: P5117

Continuing Calib Date: 12/06/2024 Initial Calibration Date(s): 11/26/2024 11/26/2024

Continuing Calib Time: 19:20 Initial Calibration Time(s): 12:48 14:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.23	7.23	7.13	7.33	0.01
2,4-D	8.35	8.35	8.25	8.45	0.00
2,4,5-TP(Silvex)	9.22	9.23	9.13	9.33	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: P5117 SAS No.: P5117 SDG NO.: P5117

Continuing Calib Date: 12/06/2024 Initial Calibration Date(s): 11/26/2024 11/26/2024

Continuing Calib Time: 19:20 Initial Calibration Time(s): 12:48 14:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.72	7.72	7.62	7.82	0.00
2,4-D	8.96	8.97	8.87	9.07	0.01
2,4,5-TP(Silvex)	9.87	9.87	9.77	9.97	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: P5117 SAS No.: P5117 SDG NO.: P5117

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/26/2024 11/26/2024

Client Sample No.: CCAL02 Date Analyzed: 12/06/2024

Lab Sample No.: HSTDCCC750 Data File : PS028727.D Time Analyzed: 19:20

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.224	9.128	9.328	760.570	712.500	6.7
2,4-D	8.348	8.251	8.451	732.590	705.000	3.9
2,4-DCAA	7.225	7.126	7.326	752.340	750.000	0.3



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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM Case No.: P5117 SAS No.: P5117 SDG NO.: P5117

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/26/2024 11/26/2024

Client Sample No.: CCAL02 Date Analyzed: 12/06/2024

Lab Sample No.: HSTDCCC750 Data File : PS028727.D Time Analyzed: 19:20

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.866	9.773	9.973	759.070	712.500	6.5
2,4-D	8.963	8.869	9.069	698.570	705.000	-0.9
2,4-DCAA	7.720	7.624	7.824	719.590	750.000	-4.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
 Data File : PS028727.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Dec 2024 19:20
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024

Supervised By :Ankita Jodhani 12/09/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 22:58:51 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:44:30 2024
 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	7.225	7.720	2018.0E6	969.3E6	752.345m	719.592
Target Compounds							
1) T	Dalapon	2.627	2.685	2197.3E6	1496.5E6	757.224	685.260
2) T	3,5-DICHL...	6.398	6.678	2838.6E6	1329.6E6	741.204	676.937
3) T	4-Nitroph...	7.023	7.247	1254.6E6	630.9E6	729.840	691.673
5) T	DICAMBA	7.412	7.919	8688.4E6	4491.5E6	756.793	729.590
6) T	MCPD	7.595	8.024	557.8E6	277.4E6	76.431	64.407
7) T	MCPA	7.745	8.267	780.8E6	385.9E6	75.515	62.185
8) T	DICHLORPROP	8.118	8.634	2297.8E6	1120.4E6	738.112	700.880
9) T	2,4-D	8.348	8.963	2470.4E6	1181.3E6	732.595	698.575
10) T	Pentachlo...	8.647	9.490	35078.0E6	17580.0E6	795.553	767.991
11) T	2,4,5-TP ...	9.224	9.866	13903.0E6	7243.4E6	760.568	759.065
12) T	2,4,5-T	9.516	10.285	14234.6E6	6947.4E6	758.956	746.202
13) T	2,4-DB	10.088	10.851	2594.4E6	803.2E6	732.529	700.456
14) T	DINOSEB	11.298	11.230	11171.1E6	4561.6E6	743.442	726.828
15) T	Picloram	11.107	12.321	22194.7E6	9632.2E6	746.372	747.219
16) T	DCPA	11.592	12.272	21195.2E6	8664.5E6	770.870	780.781

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028727.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 19:20
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

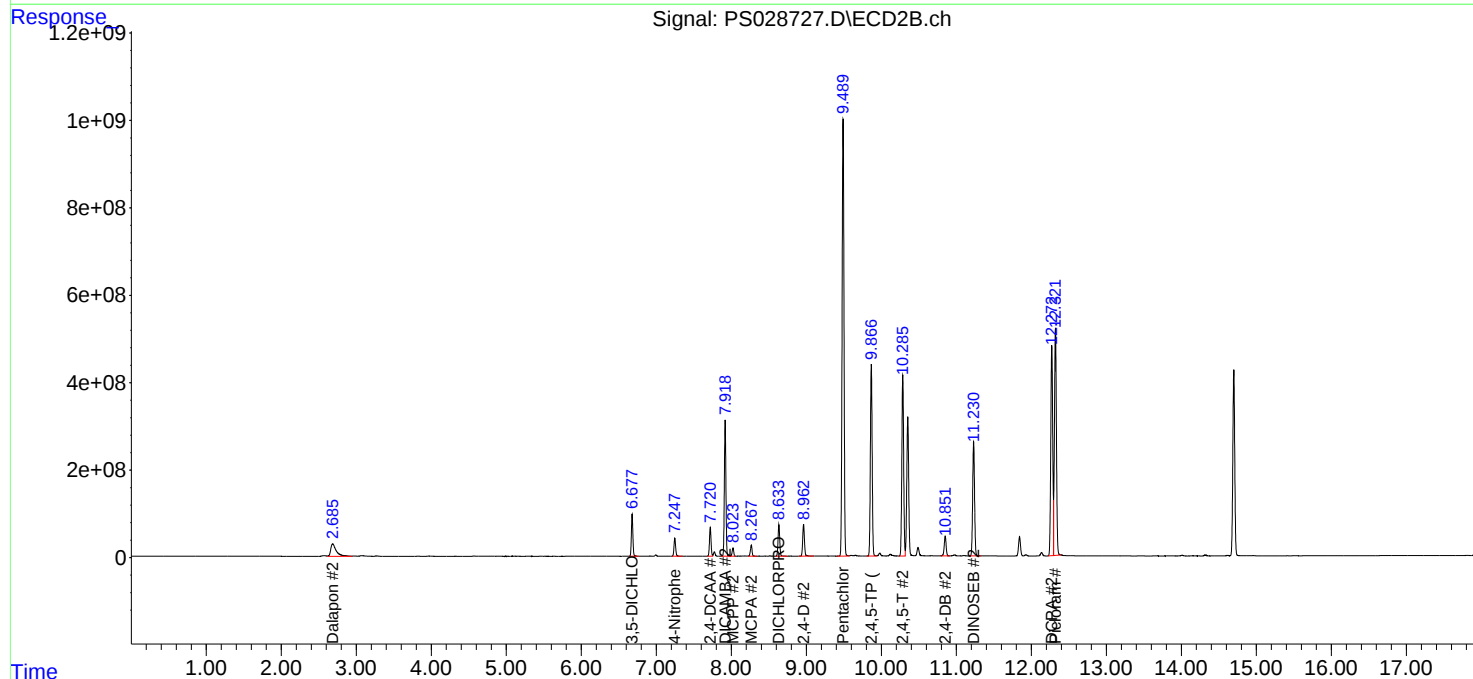
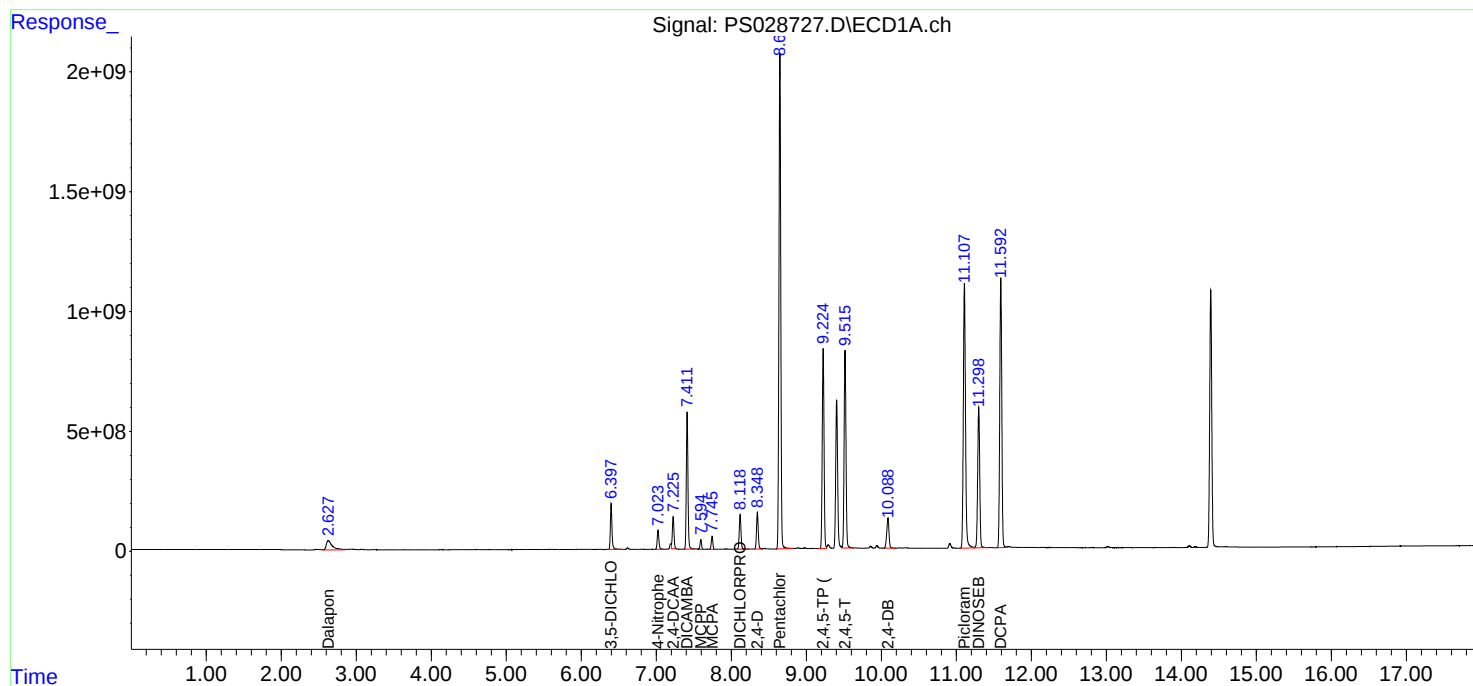
APPROVED

Reviewed By :Abdul Mirza 12/09/2024

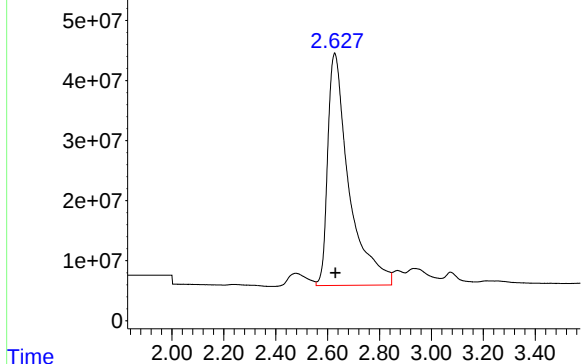
Supervised By :Ankita Jodhani 12/09/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:58:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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: PS028727.D\ECD1A.ch



#1 Dalapon

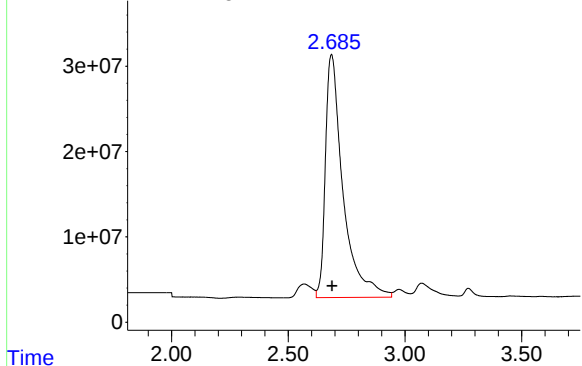
R.T.: 2.627 min
Delta R.T.: -0.003 min
Response: 2197348262
Conc: 757.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

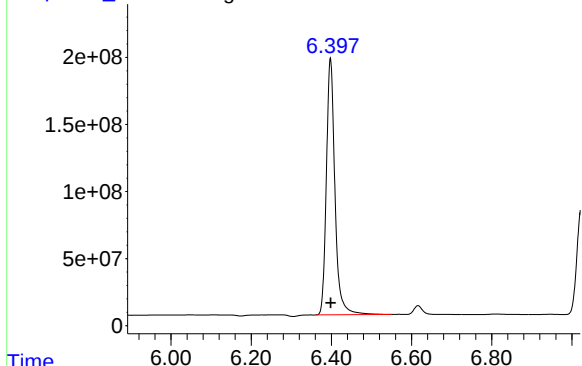
Time Response_ Signal: PS028727.D\ECD2B.ch



#1 Dalapon

R.T.: 2.685 min
Delta R.T.: -0.003 min
Response: 1496478016
Conc: 685.26 ng/ml

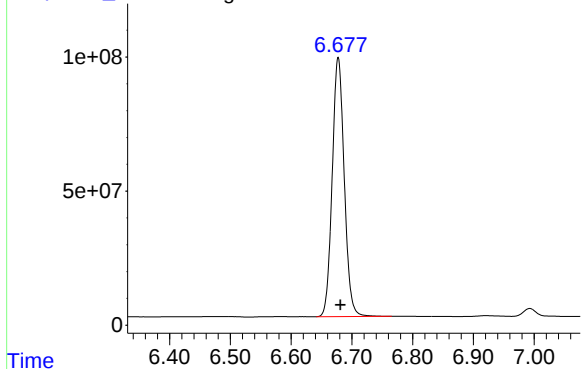
Time Response_ Signal: PS028727.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.398 min
Delta R.T.: -0.001 min
Response: 2838556622
Conc: 741.20 ng/ml

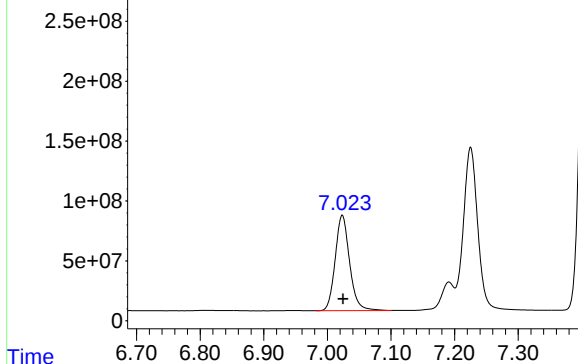
Time Response_ Signal: PS028727.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.678 min
Delta R.T.: -0.004 min
Response: 1329565587
Conc: 676.94 ng/ml

Response_ Signal: PS028727.D\ECD1A.ch



#3 4-Nitrophenol

R.T.: 7.023 min
Delta R.T.: -0.001 min
Response: 1254575293
Conc: 729.84 ng/ml

Instrument :

ECD_S

ClientSampleId :

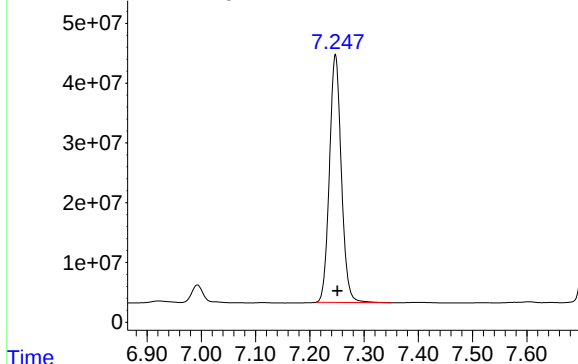
HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

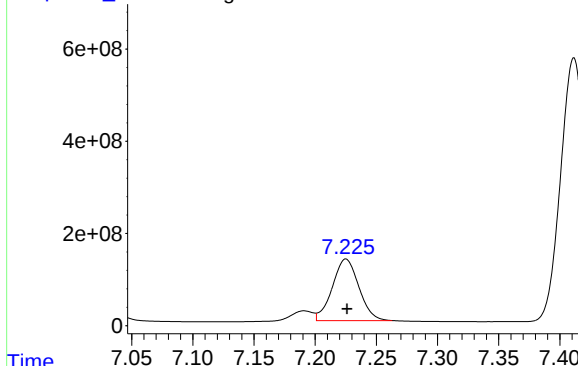
Response_ Signal: PS028727.D\ECD2B.ch



#3 4-Nitrophenol

R.T.: 7.247 min
Delta R.T.: -0.004 min
Response: 630898431
Conc: 691.67 ng/ml

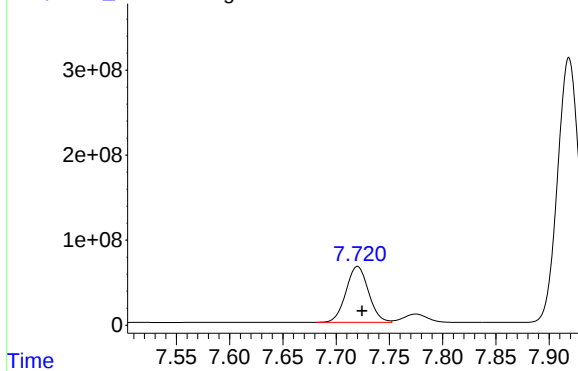
Response_ Signal: PS028727.D\ECD1A.ch



#4 2,4-DCAA

R.T.: 7.225 min
Delta R.T.: -0.001 min
Response: 2018046253
Conc: 752.34 ng/ml m

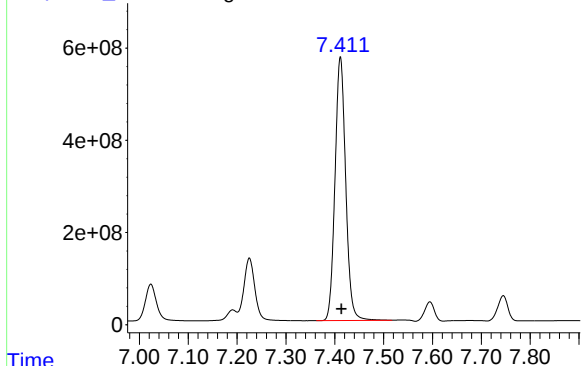
Response_ Signal: PS028727.D\ECD2B.ch



#4 2,4-DCAA

R.T.: 7.720 min
Delta R.T.: -0.004 min
Response: 969311944
Conc: 719.59 ng/ml

Response_ Signal: PS028727.D\ECD1A.ch



#5 DICAMBA

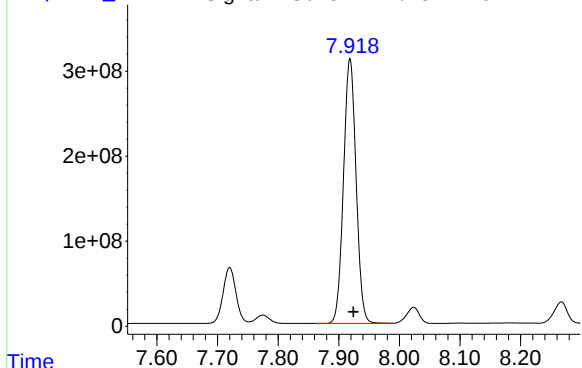
R.T.: 7.412 min
Delta R.T.: -0.002 min
Response: 8688389877
Conc: 756.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

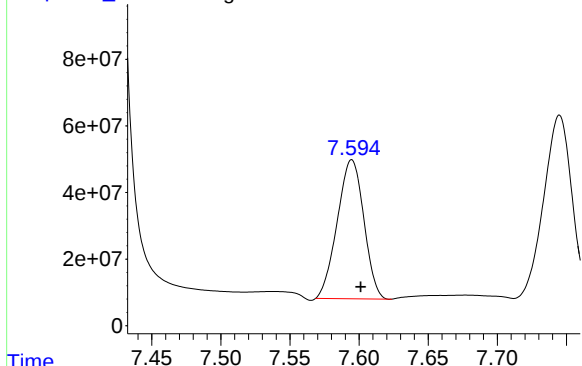
Response_ Signal: PS028727.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.919 min
Delta R.T.: -0.005 min
Response: 4491510600
Conc: 729.59 ng/ml

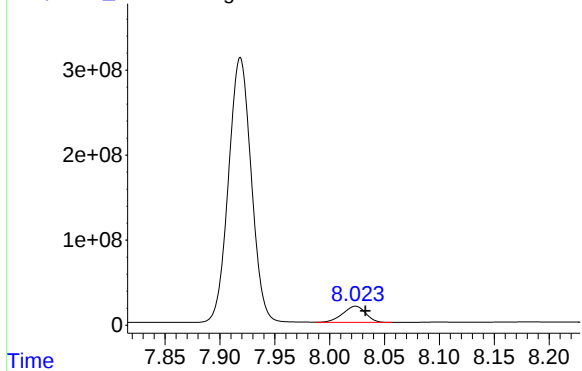
Response_ Signal: PS028727.D\ECD1A.ch



#6 MCP

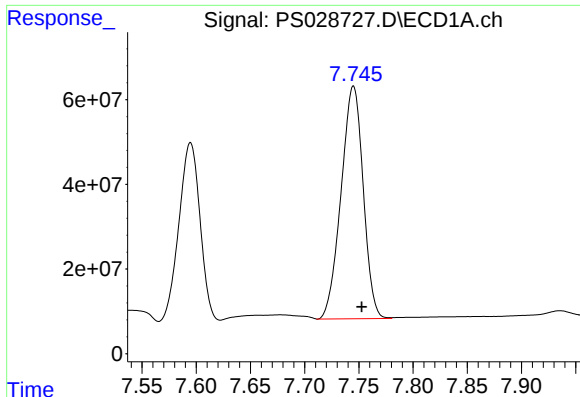
R.T.: 7.595 min
Delta R.T.: -0.007 min
Response: 557752733
Conc: 76.43 ug/ml

Response_ Signal: PS028727.D\ECD2B.ch



#6 MCP

R.T.: 8.024 min
Delta R.T.: -0.009 min
Response: 277437294
Conc: 64.41 ug/ml



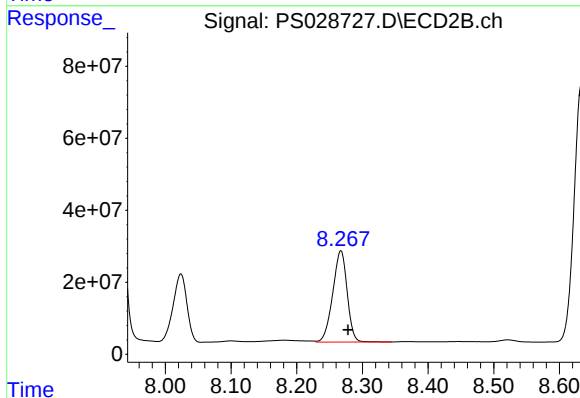
#7 MCPA

R.T.: 7.745 min
Delta R.T.: -0.008 min
Response: 780754232
Conc: 75.52 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

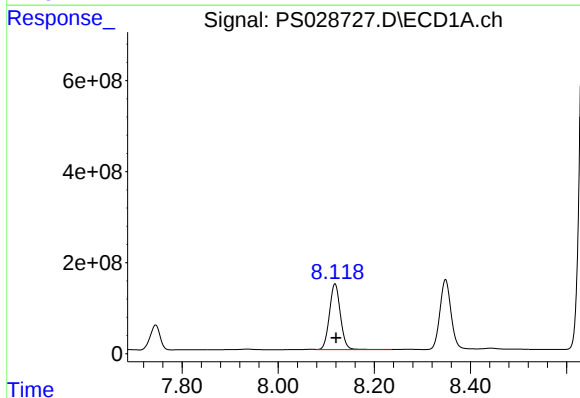
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



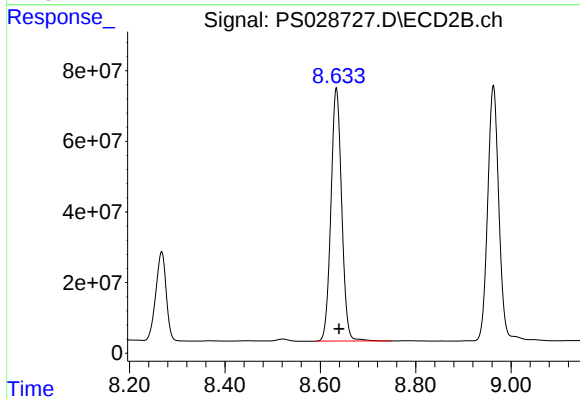
#7 MCPA

R.T.: 8.267 min
Delta R.T.: -0.011 min
Response: 385921608
Conc: 62.18 ug/ml



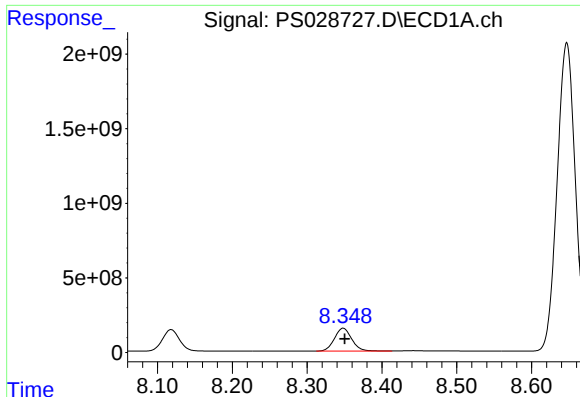
#8 DICHLORPROP

R.T.: 8.118 min
Delta R.T.: -0.003 min
Response: 2297818909
Conc: 738.11 ng/ml



#8 DICHLORPROP

R.T.: 8.634 min
Delta R.T.: -0.006 min
Response: 1120438972
Conc: 700.88 ng/ml



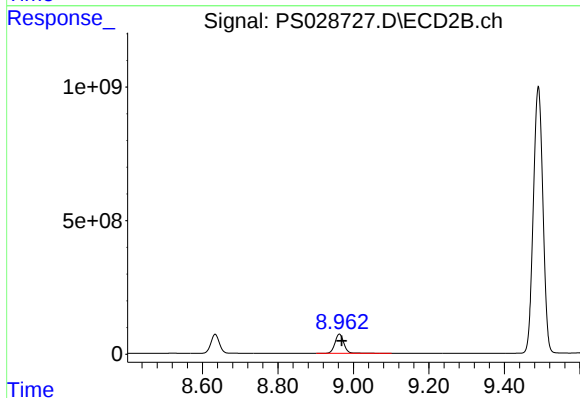
#9 2,4-D

R.T.: 8.348 min
Delta R.T.: -0.002 min
Response: 2470418819
Conc: 732.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

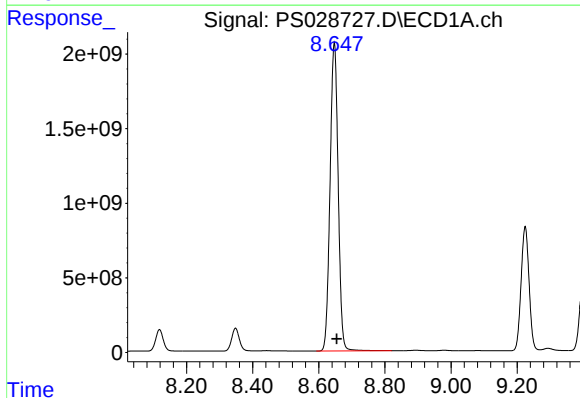
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



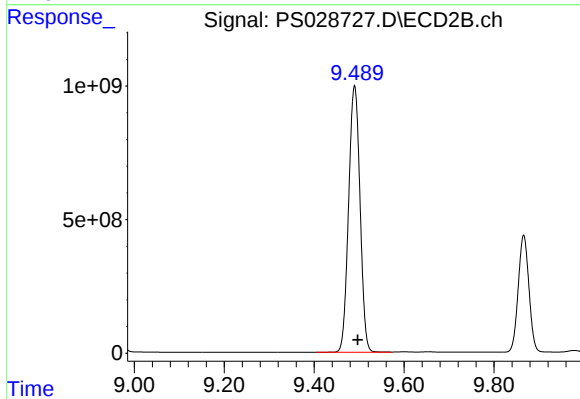
#9 2,4-D

R.T.: 8.963 min
Delta R.T.: -0.006 min
Response: 1181268383
Conc: 698.57 ng/ml



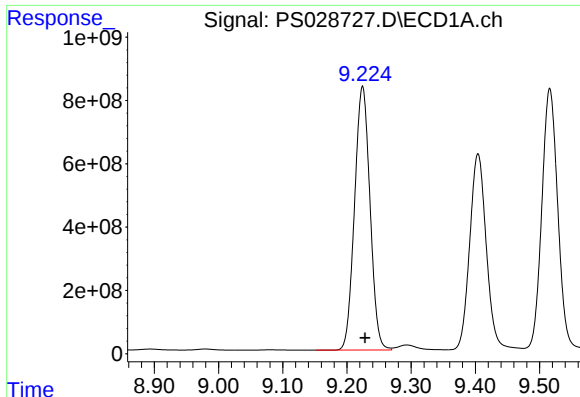
#10 Pentachlorophenol

R.T.: 8.647 min
Delta R.T.: -0.007 min
Response: 35078008420
Conc: 795.55 ng/ml



#10 Pentachlorophenol

R.T.: 9.490 min
Delta R.T.: -0.007 min
Response: 17579986197
Conc: 767.99 ng/ml



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

R.T.: 9.224 min
Delta R.T.: -0.004 min
Response: 13903010338
Conc: 760.57 ng/ml

Instrument :

ECD_S

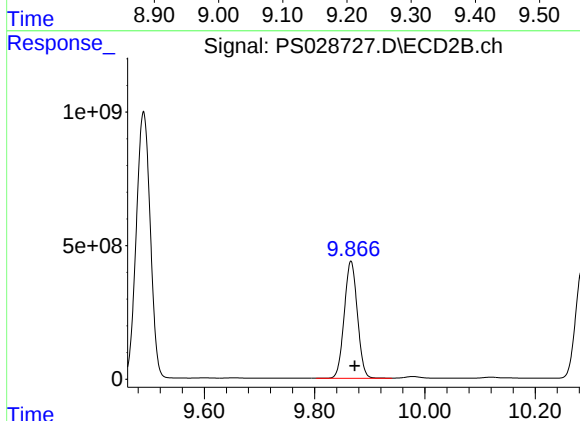
ClientSampleId :

HSTDCCC750

Manual Integrations

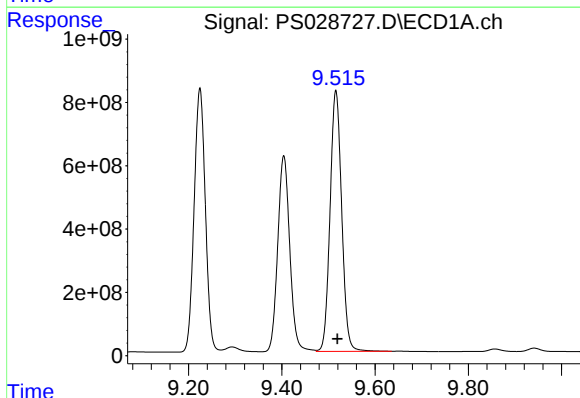
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



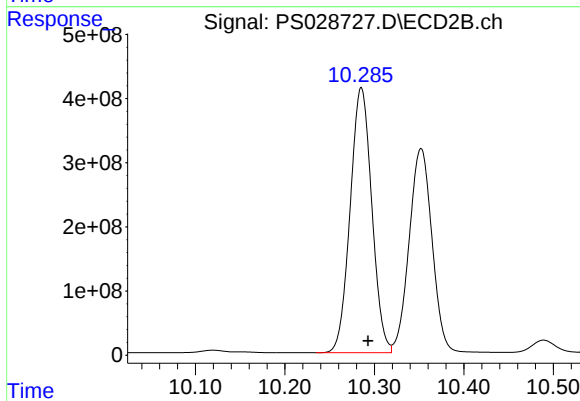
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: -0.007 min
Response: 7243393263
Conc: 759.07 ng/ml



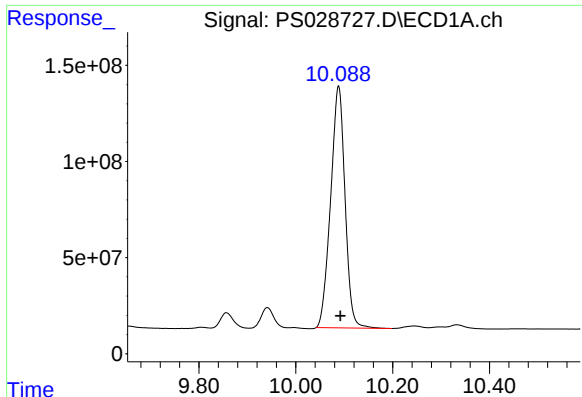
#12 2,4,5-T

R.T.: 9.516 min
Delta R.T.: -0.004 min
Response: 14234598972
Conc: 758.96 ng/ml



#12 2,4,5-T

R.T.: 10.285 min
Delta R.T.: -0.007 min
Response: 6947358251
Conc: 746.20 ng/ml



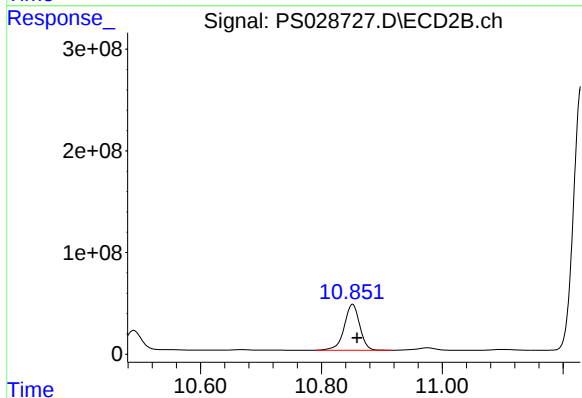
#13 2,4-DB

R.T.: 10.088 min
Delta R.T.: -0.004 min
Response: 2594402842
Conc: 732.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

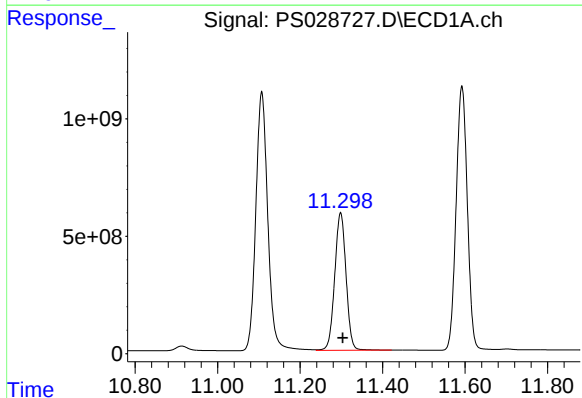
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



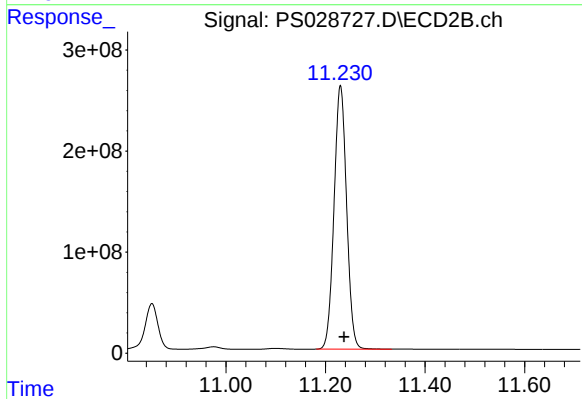
#13 2,4-DB

R.T.: 10.851 min
Delta R.T.: -0.008 min
Response: 803227750
Conc: 700.46 ng/ml



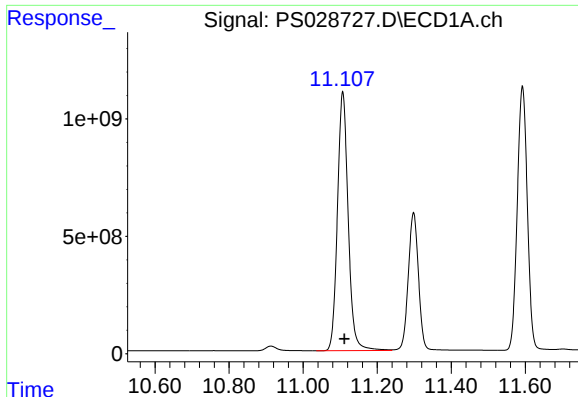
#14 DINOSEB

R.T.: 11.298 min
Delta R.T.: -0.005 min
Response: 11171132487
Conc: 743.44 ng/ml



#14 DINOSEB

R.T.: 11.230 min
Delta R.T.: -0.007 min
Response: 4561587819
Conc: 726.83 ng/ml



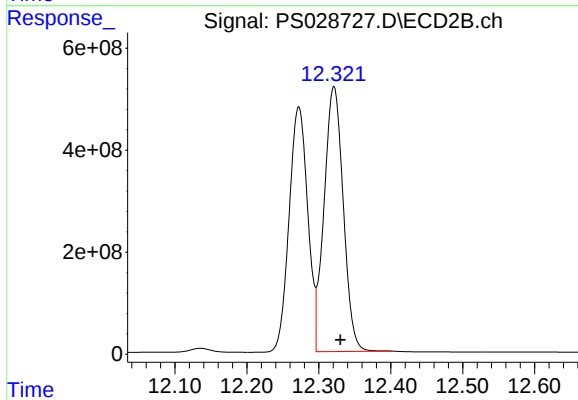
#15 Picloram

R.T.: 11.107 min
Delta R.T.: -0.005 min
Response: 22194700546
Conc: 746.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

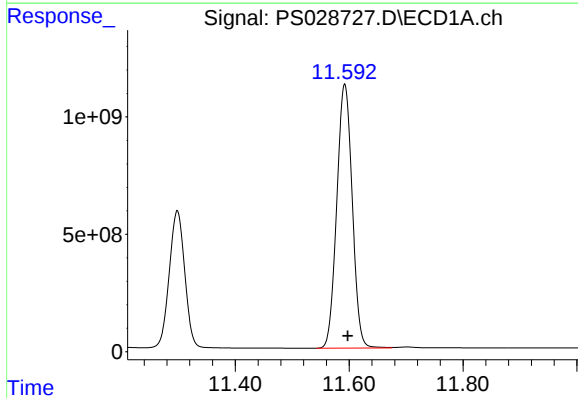
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



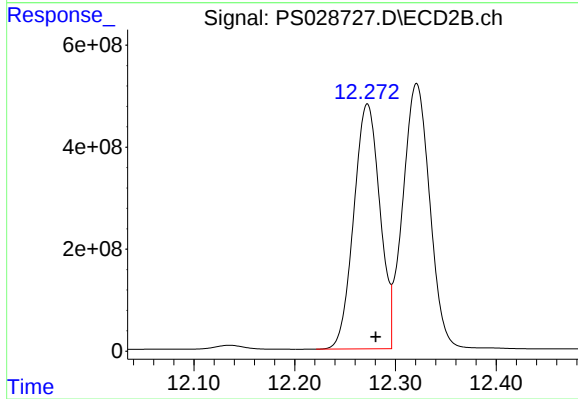
#15 Picloram

R.T.: 12.321 min
Delta R.T.: -0.009 min
Response: 9632168909
Conc: 747.22 ng/ml



#16 DCPA

R.T.: 11.592 min
Delta R.T.: -0.005 min
Response: 21195180856
Conc: 770.87 ng/ml



#16 DCPA

R.T.: 12.272 min
Delta R.T.: -0.008 min
Response: 8664497656
Conc: 780.78 ng/ml

Analytical Sequence

Client: Weston Solutions	SDG No.: P5117
Project: Ft Meade Tipton Airfield Parcel RI - PO 0111	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 11/26/2024 11/26/2024

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 #
1.BLK	1.BLK	11/26/2024	12:24	PS028631.D	7.23	0.00
HSTDICC200	HSTDICC200	11/26/2024	12:48	PS028632.D	7.23	0.00
HSTDICC500	HSTDICC500	11/26/2024	13:13	PS028633.D	7.23	0.00
HSTDICC750	HSTDICC750	11/26/2024	13:37	PS028634.D	7.23	0.00
HSTDICC1000	HSTDICC1000	11/26/2024	14:01	PS028635.D	7.23	0.00
HSTDICC1500	HSTDICC1500	11/26/2024	14:25	PS028636.D	7.23	0.00
1.BLK	1.BLK	12/06/2024	11:21	PS028718.D	7.23	0.00
HSTDCCC750	HSTDCCC750	12/06/2024	12:37	PS028719.D	7.23	0.00
TAPIAL2-IDW-SOIL-120424-00-T2	P5117-02	12/06/2024	16:32	PS028720.D	7.23	0.00
TAPIAL2-IDW-SOIL-120424-00-T2MS	P5117-02MS	12/06/2024	16:57	PS028721.D	7.23	0.00
TAPIAL2-IDW-SOIL-120424-00-T2MSD	P5117-02MSD	12/06/2024	17:21	PS028722.D	7.23	0.00
PB165455BL	PB165455BL	12/06/2024	17:45	PS028723.D	7.23	0.00
PB165455BS	PB165455BS	12/06/2024	18:09	PS028724.D	7.22	0.00
PB165390TB	PB165390TB	12/06/2024	18:32	PS028725.D	7.23	0.00
1.BLK	1.BLK	12/06/2024	18:56	PS028726.D	7.23	0.00
HSTDCCC750	HSTDCCC750	12/06/2024	19:20	PS028727.D	7.23	0.00

Analytical Sequence

Client: Weston Solutions	SDG No.: P5117
Project: Ft Meade Tipton Airfield Parcel RI - PO 0111	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 11/26/2024 11/26/2024

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 #
1.BLK	1.BLK	11/26/2024	12:24	PS028631.D	7.72	0.00
HSTDICC200	HSTDICC200	11/26/2024	12:48	PS028632.D	7.73	0.00
HSTDICC500	HSTDICC500	11/26/2024	13:13	PS028633.D	7.72	0.00
HSTDICC750	HSTDICC750	11/26/2024	13:37	PS028634.D	7.72	0.00
HSTDICC1000	HSTDICC1000	11/26/2024	14:01	PS028635.D	7.73	0.00
HSTDICC1500	HSTDICC1500	11/26/2024	14:25	PS028636.D	7.73	0.00
1.BLK	1.BLK	12/06/2024	11:21	PS028718.D	7.72	0.00
HSTDCCC750	HSTDCCC750	12/06/2024	12:37	PS028719.D	7.72	0.00
TAPIAL2-IDW-SOIL-120424-00-T2	P5117-02	12/06/2024	16:32	PS028720.D	7.72	0.00
TAPIAL2-IDW-SOIL-120424-00-T2MS	P5117-02MS	12/06/2024	16:57	PS028721.D	7.72	0.00
TAPIAL2-IDW-SOIL-120424-00-T2MSD	P5117-02MSD	12/06/2024	17:21	PS028722.D	7.72	0.00
PB165455BL	PB165455BL	12/06/2024	17:45	PS028723.D	7.72	0.00
PB165455BS	PB165455BS	12/06/2024	18:09	PS028724.D	7.72	0.00
PB165390TB	PB165390TB	12/06/2024	18:32	PS028725.D	7.72	0.00
1.BLK	1.BLK	12/06/2024	18:56	PS028726.D	7.72	0.00
HSTDCCC750	HSTDCCC750	12/06/2024	19:20	PS028727.D	7.72	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165455BS

Contract: WEST04

Lab Code: CHEM

Case No.: P5117

SAS No.: P5117

SDG NO.: P5117

Lab Sample ID: PB165455BS

Date(s) Analyzed: 12/06/2024

12/06/2024

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-D	1	8.35	8.30	8.40	4.80	8.7
	2	8.96	8.91	9.01	4.40	
2,4,5-TP(Silvex)	1	9.22	9.17	9.27	4.90	4.2
	2	9.87	9.82	9.92	4.70	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TAPIAL2-IDW-SOIL-120424-00-

Contract: WEST04

Lab Code: CHEM Case No.: P5117 SAS No.: P5117 SDG NO.: P5117

Lab Sample ID: P5117-02MS Date(s) Analyzed: 12/06/2024 12/06/2024

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-D	1	8.35	8.30	8.40	52.8	9.3
	2	8.96	8.91	9.01	48.1	
2,4,5-TP(Silvex)	1	9.22	9.17	9.27	49.2	53.4
	2	9.87	9.82	9.92	85.0	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TAPIAL2-IDW-SOIL-120424-00-

Contract: WEST04

Lab Code: CHEM Case No.: P5117 SAS No.: P5117 SDG NO.: P5117

Lab Sample ID: P5117-02MSD Date(s) Analyzed: 12/06/2024 12/06/2024

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-D	1	8.35	8.30	8.40	52.9	8.5
	2	8.96	8.91	9.01	48.6	
2,4,5-TP(Silvex)	1	9.22	9.17	9.27	49.2	53.2
	2	9.87	9.82	9.92	84.9	



QC SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	PB165455BL	SDG No.:	P5117
Lab Sample ID:	PB165455BL	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028723.D	1	12/06/24 10:45	12/06/24 17:45	PB165455

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	466		32 - 138		93%	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\PS120624\
Data File : PS028723.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 17:45
Operator : AR\AJ
Sample : PB165455BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165455BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:57:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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	7.225	7.720	1248.9E6	543.4E6	465.615	403.441

Target Compounds

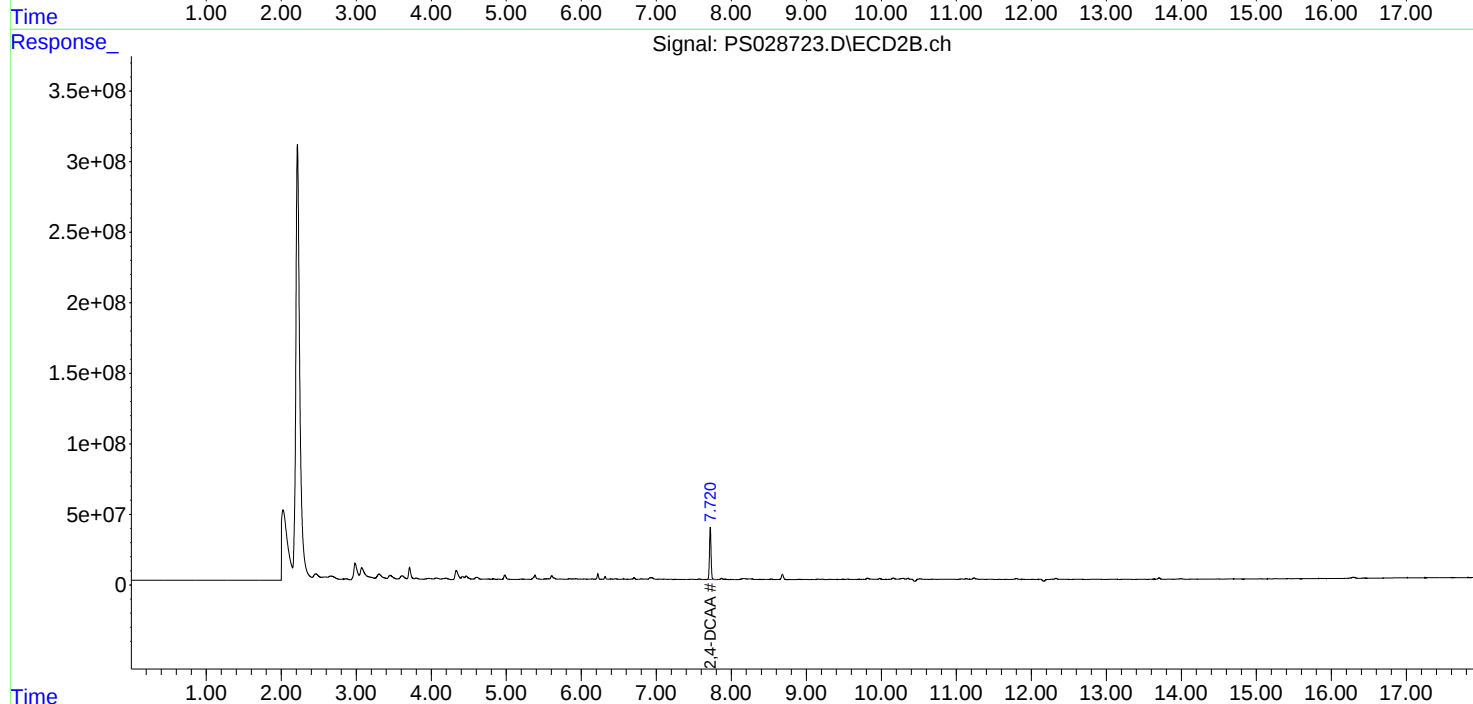
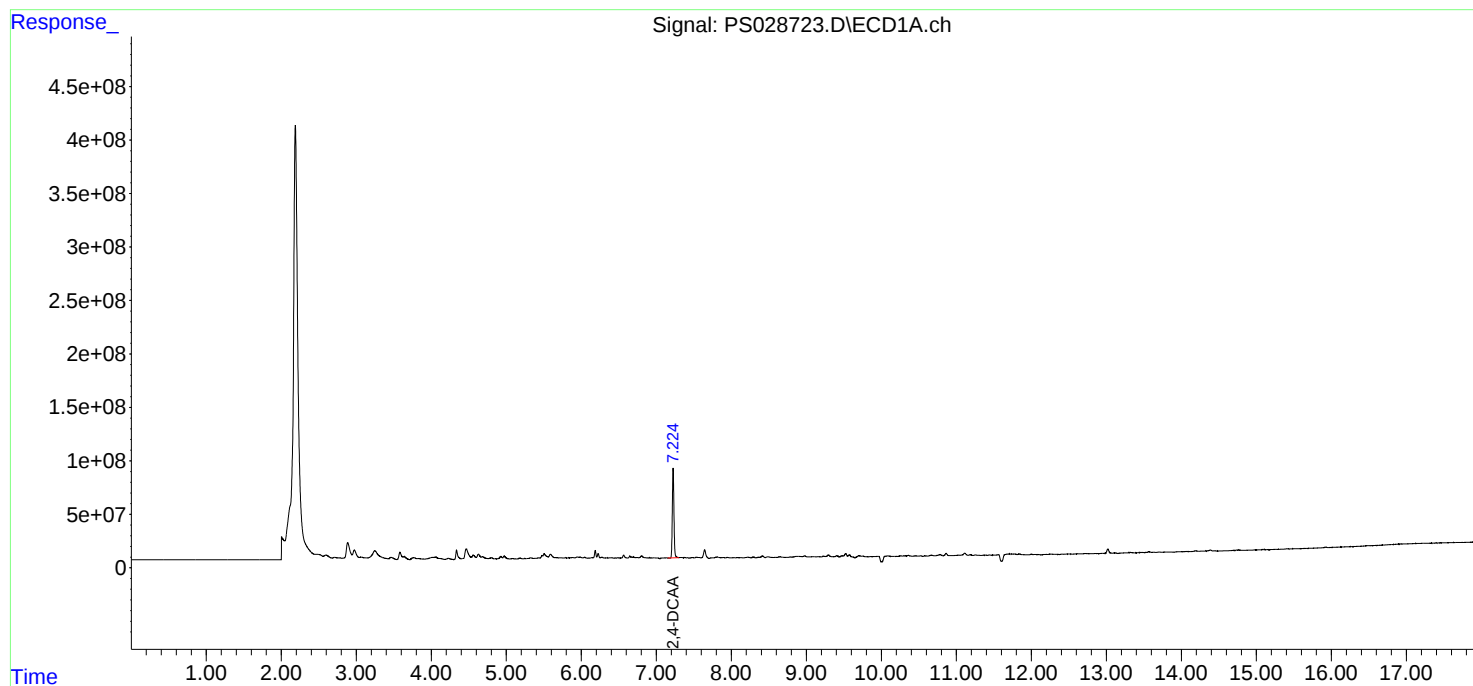
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028723.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 17:45
Operator : AR\AJ
Sample : PB165455BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165455BL

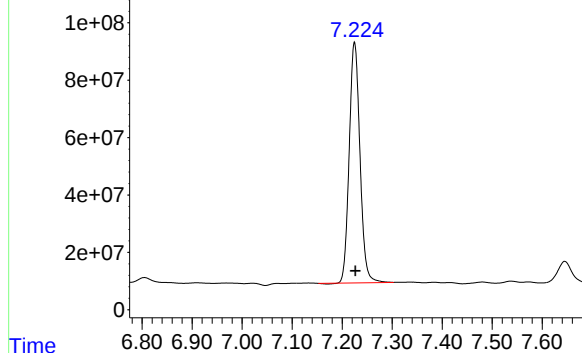
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:57:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
Response via : Initial Calibration
Integrator: ChemStation

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: PS028723.D\ECD1A.ch

#4 2,4-DCAA

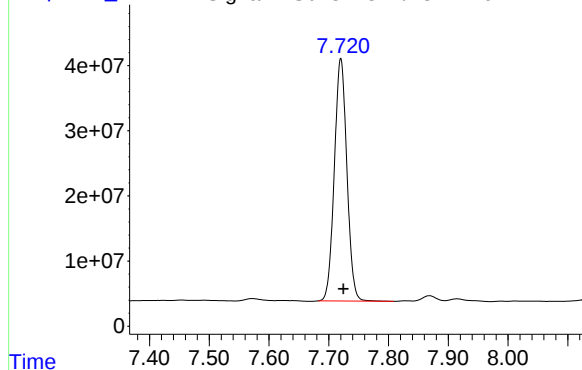


R.T.: 7.225 min
Delta R.T.: -0.001 min
Response: 1248939653
Conc: 465.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BL

Signal: PS028723.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.720 min
Delta R.T.: -0.004 min
Response: 543446457
Conc: 403.44 ng/ml

Report of Analysis

Client:	Weston Solutions	Date Collected:	11/26/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	11/26/24
Client Sample ID:	PIBLK-PS028631.D	SDG No.:	P5117
Lab Sample ID:	I.BLK-PS028631.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028631.D	1		11/26/24	PS112624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	492		32 - 138		98%	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\PS112624\
Data File : PS028631.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Nov 2024 12:24
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: Nov 26 14:45:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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	7.225	7.724	1318.5E6	662.1E6	491.551	491.546
------	----------	-------	-------	----------	---------	---------	---------

Target Compounds

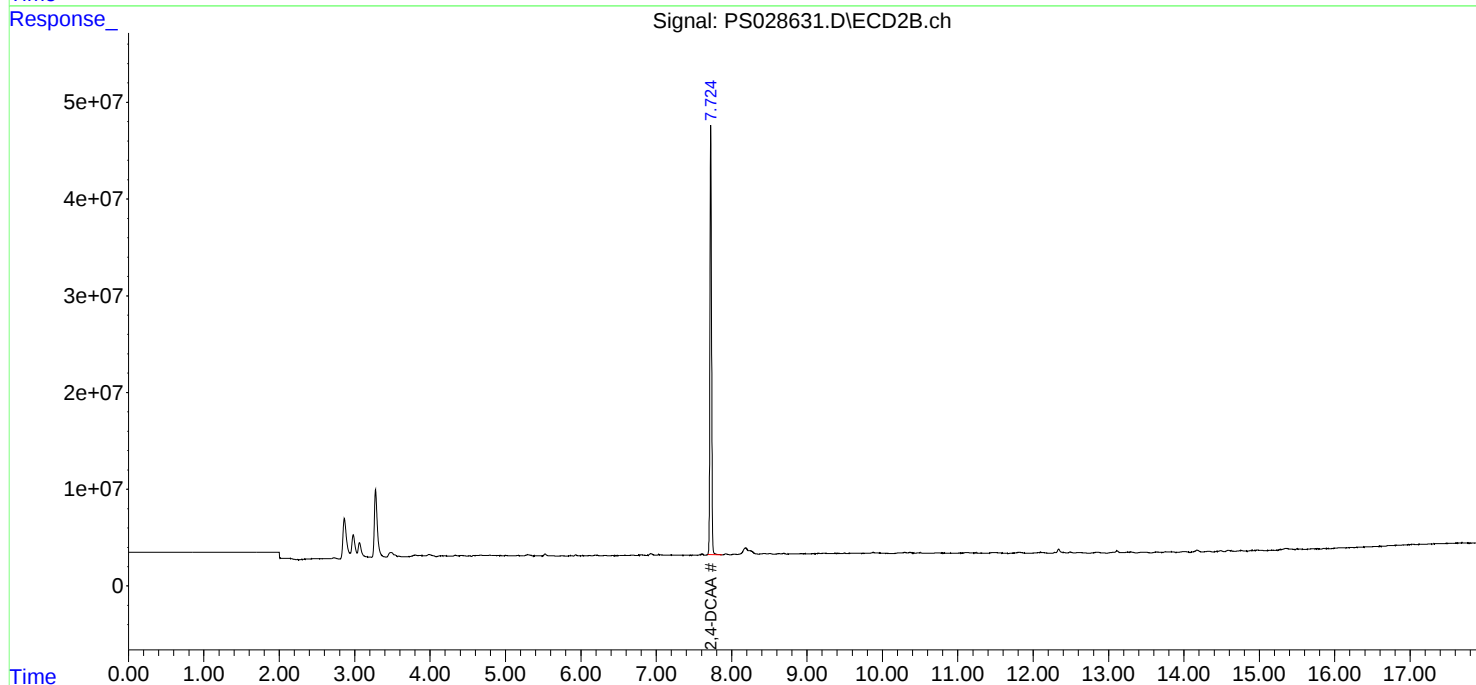
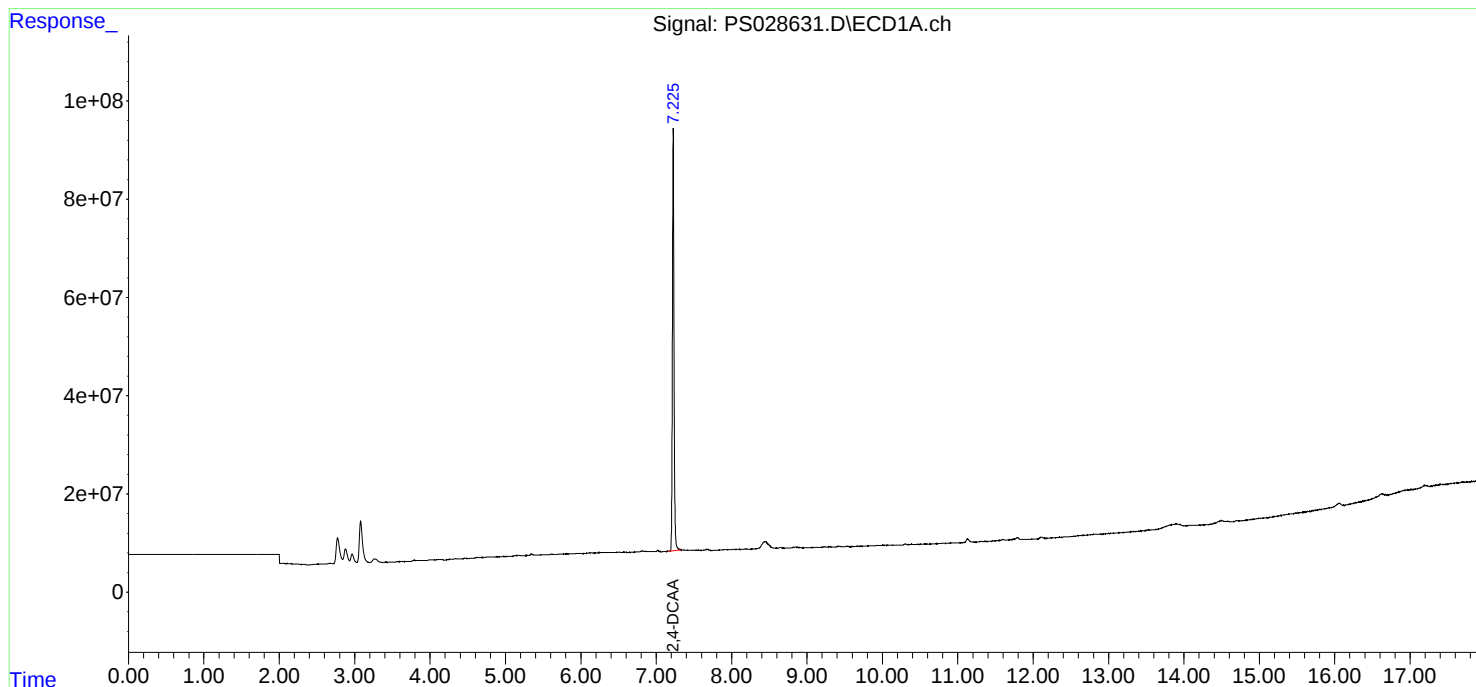
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

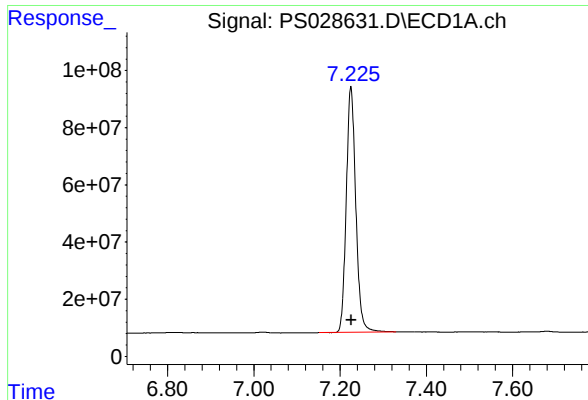
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
Data File : PS028631.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Nov 2024 12:24
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 26 14:45:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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

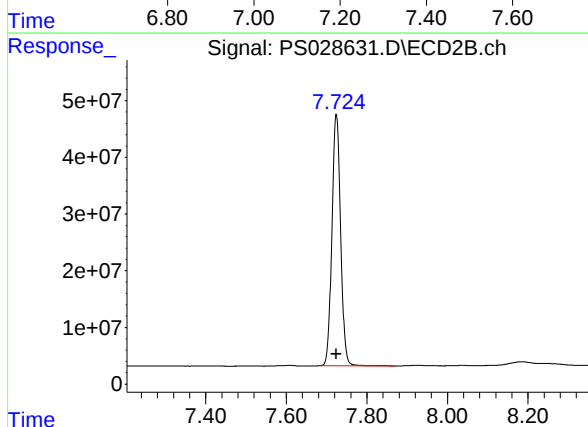




#4 2,4-DCAA

R.T.: 7.225 min
Delta R.T.: 0.000 min
Response: 1318509068
Conc: 491.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.724 min
Delta R.T.: 0.000 min
Response: 662127019
Conc: 491.55 ng/ml

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/06/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/06/24
Client Sample ID:	PIBLK-PS028718.D	SDG No.:	P5117
Lab Sample ID:	I.BLK-PS028718.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028718.D	1		12/06/24	PS120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	501		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\PS120624\
Data File : PS028718.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 11:21
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: Dec 06 22:56:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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	7.226	7.721	1344.9E6	606.7E6	501.385	450.414

Target Compounds

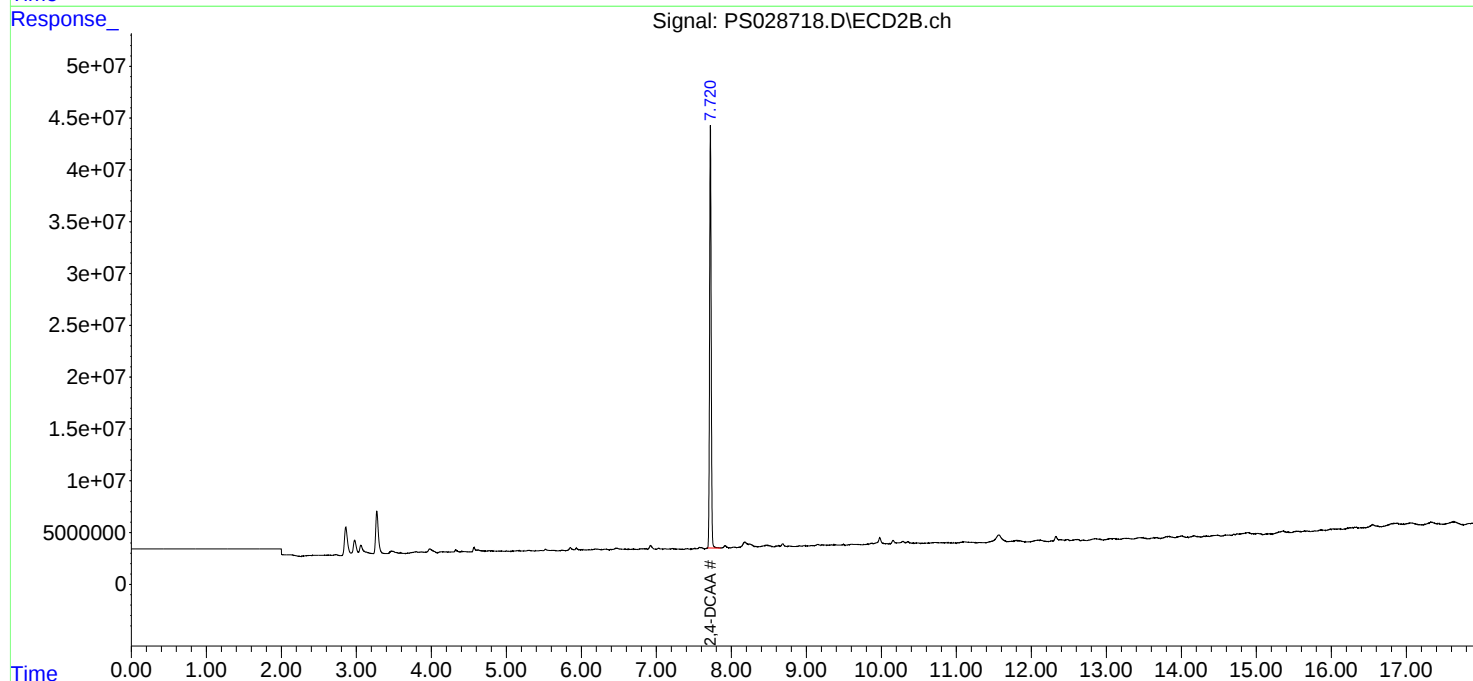
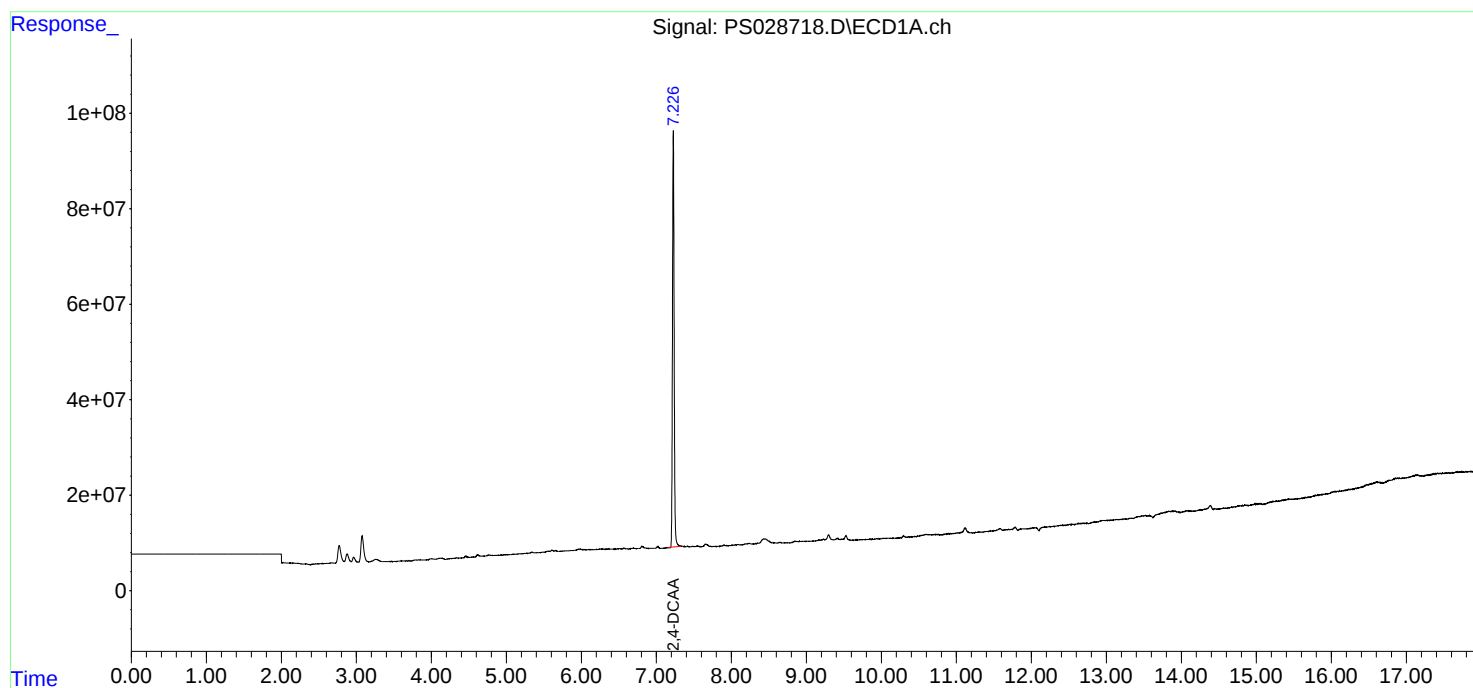
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028718.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 11:21
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

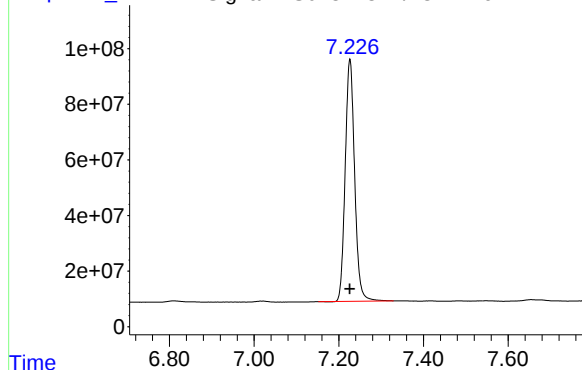
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:56:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
Response via : Initial Calibration
Integrator: ChemStation

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: PS028718.D\ECD1A.ch

#4 2,4-DCAA

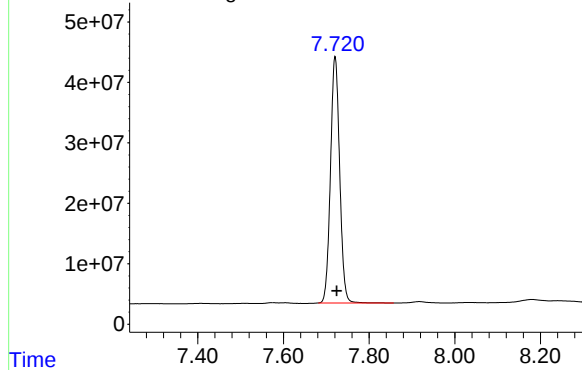


R.T.: 7.226 min
Delta R.T.: 0.000 min
Response: 1344885324
Conc: 501.38 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028718.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.721 min
Delta R.T.: -0.004 min
Response: 606720358
Conc: 450.41 ng/ml

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/06/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/06/24
Client Sample ID:	PIBLK-PS028726.D	SDG No.:	P5117
Lab Sample ID:	I.BLK-PS028726.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028726.D	1		12/06/24	PS120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	502		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\PS120624\
Data File : PS028726.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 18:56
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: Dec 06 22:58:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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	7.225	7.720	1347.1E6	610.7E6	502.194	453.382

Target Compounds

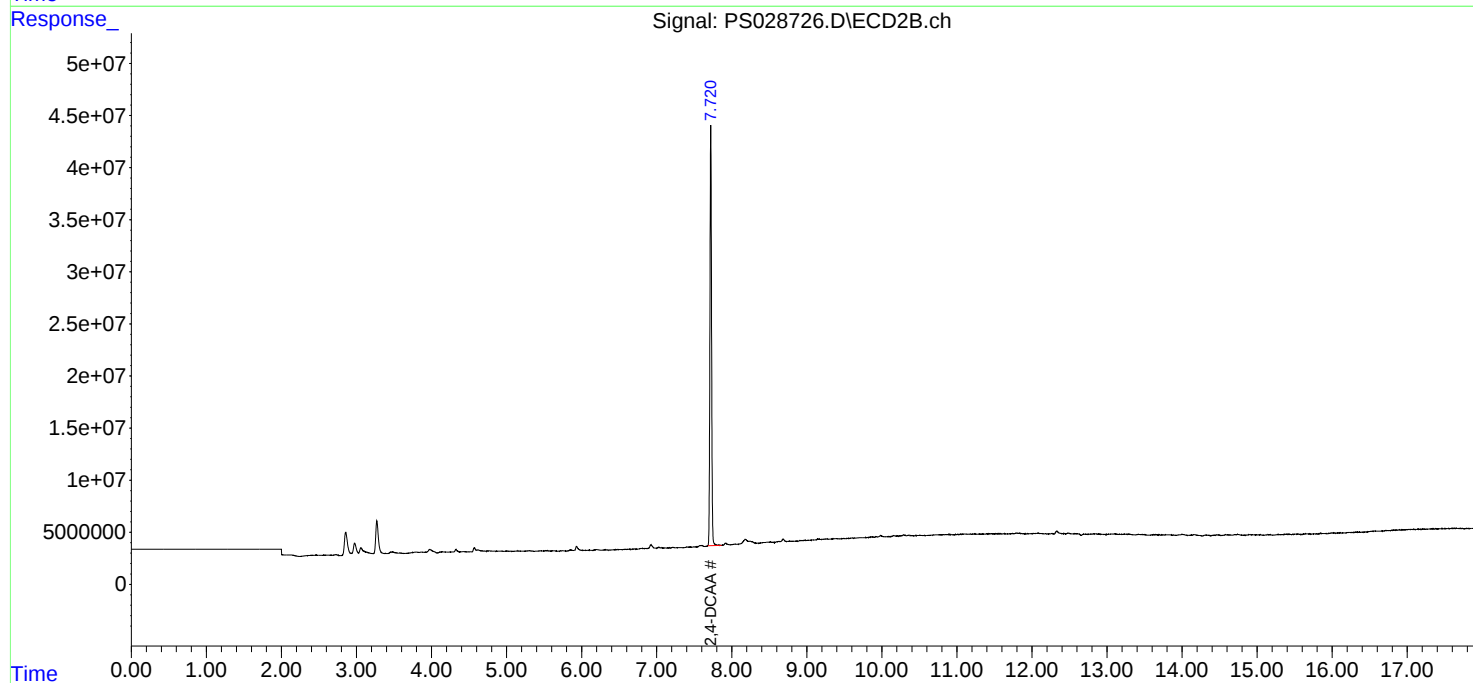
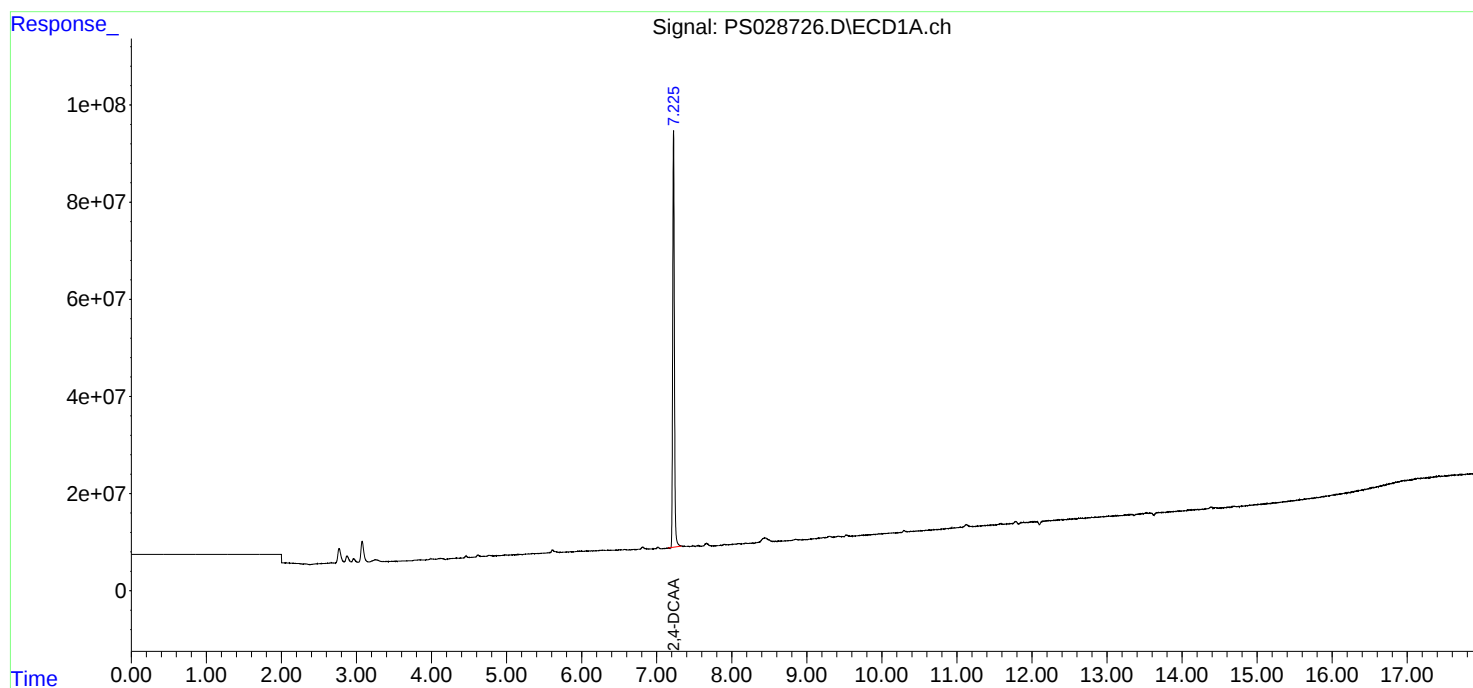
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028726.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 18:56
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: Dec 06 22:58:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
Response via : Initial Calibration
Integrator: ChemStation

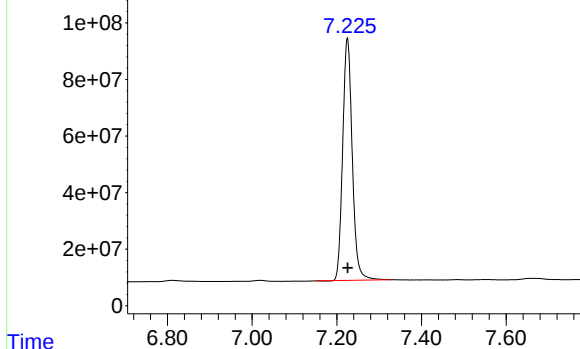
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_

Signal: PS028726.D\ECD1A.ch

#4 2,4-DCAA



R.T.: 7.225 min

Delta R.T.: -0.001 min

Response: 1347056395

Conc: 502.19 ng/ml

Instrument :

ECD_S

ClientSampleId :

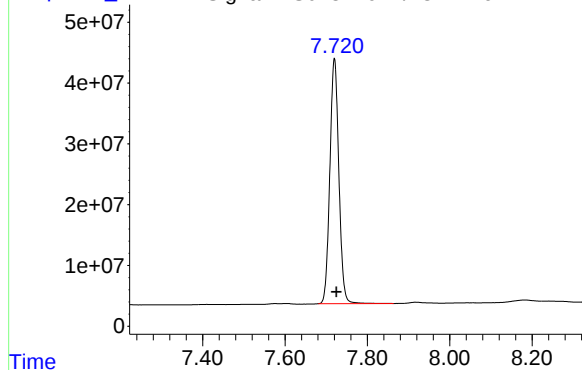
I.BLK

Time

Response_

Signal: PS028726.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.720 min

Delta R.T.: -0.005 min

Response: 610719615

Conc: 453.38 ng/ml

Time

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	PB165455BS	SDG No.:	P5117
Lab Sample ID:	PB165455BS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028724.D	1	12/06/24 10:45	12/06/24 18:09	PB165455

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	4.80		0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	4.90		0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	508		32 - 138		102%	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\PS120624\
 Data File : PS028724.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Dec 2024 18:09
 Operator : AR\AJ
 Sample : PB165455BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB165455BS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024

Supervised By :Ankita Jodhani 12/09/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 22:58:03 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:44:30 2024
 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	7.224	7.720	1363.6E6	607.4E6	508.345m	450.901
Target Compounds							
1) T	Dalapon	2.626	2.685	1378.6E6	898.0E6	475.066	411.226
2) T	3,5-DICHL...	6.398	6.677	1835.6E6	829.1E6	479.302	422.143
3) T	4-Nitroph...	7.024	7.247	791.1E6	394.0E6	460.219	431.948
5) T	DICAMBA	7.411	7.918	5530.5E6	2722.8E6	481.731	442.279
6) T	MCPD	7.592	8.020	330.8E6	168.3E6	45.325	39.072
7) T	MCPA	7.741	8.264	477.3E6	240.8E6	46.169	38.797
8) T	DICHLORPROP	8.118	8.633	1505.2E6	699.8E6	483.519	437.782
9) T	2,4-D	8.348	8.963	1622.9E6	742.0E6	481.278	438.797
10) T	Pentachlo...	8.646	9.490	22959.9E6	11108.3E6	520.721	485.272
11) T	2,4,5-TP ...	9.224	9.866	9033.8E6	4519.1E6	494.197	473.579
12) T	2,4,5-T	9.516	10.285	9264.1E6	4350.5E6	493.939	467.281
13) T	2,4-DB	10.088	10.851	1663.2E6	497.0E6	469.614	433.392
14) T	DINOSEB	11.298	11.230	7190.3E6	2836.8E6	478.514	452.002
15) T	Picloram	11.107	12.321	14089.4E6	5789.1E6	473.803	449.088
16) T	DCPA	11.592	12.272	13826.5E6	5401.5E6	502.870	486.745

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028724.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 18:09
Operator : AR\AJ
Sample : PB165455BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB165455BS

Manual Integrations

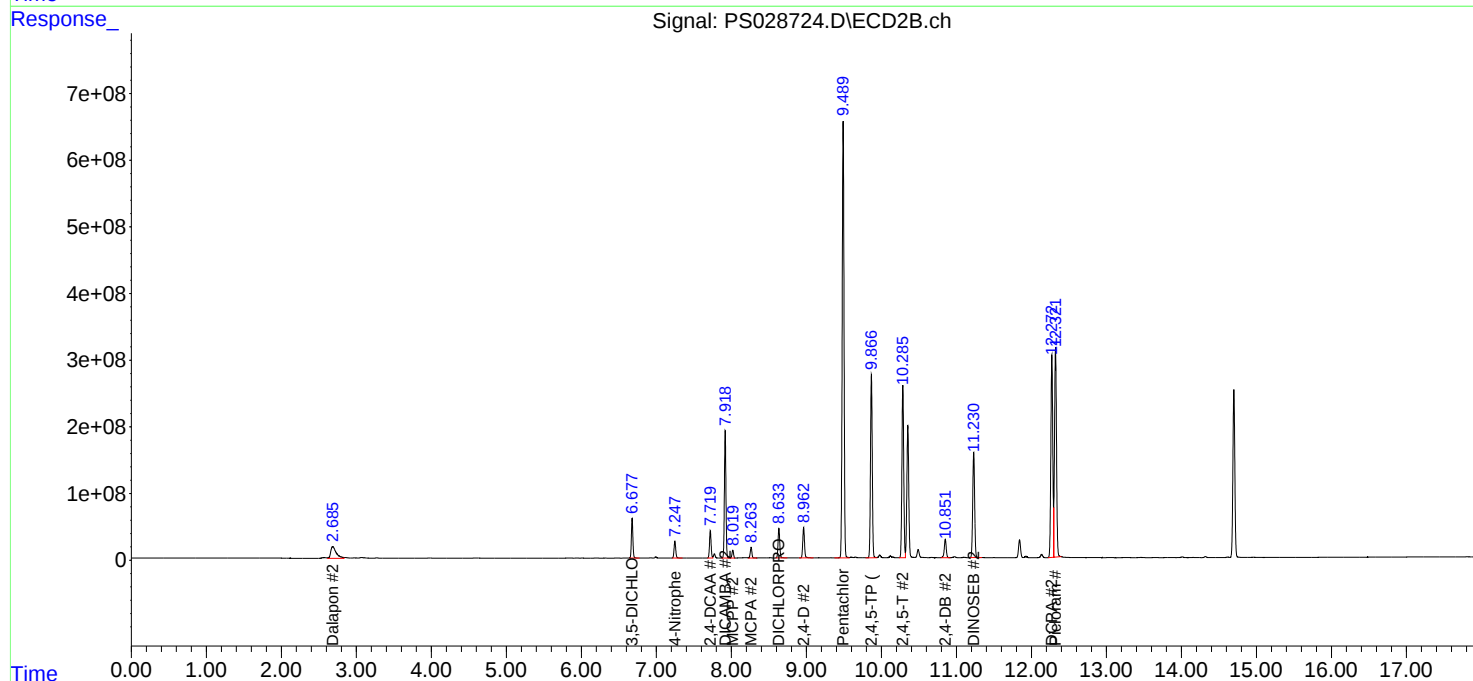
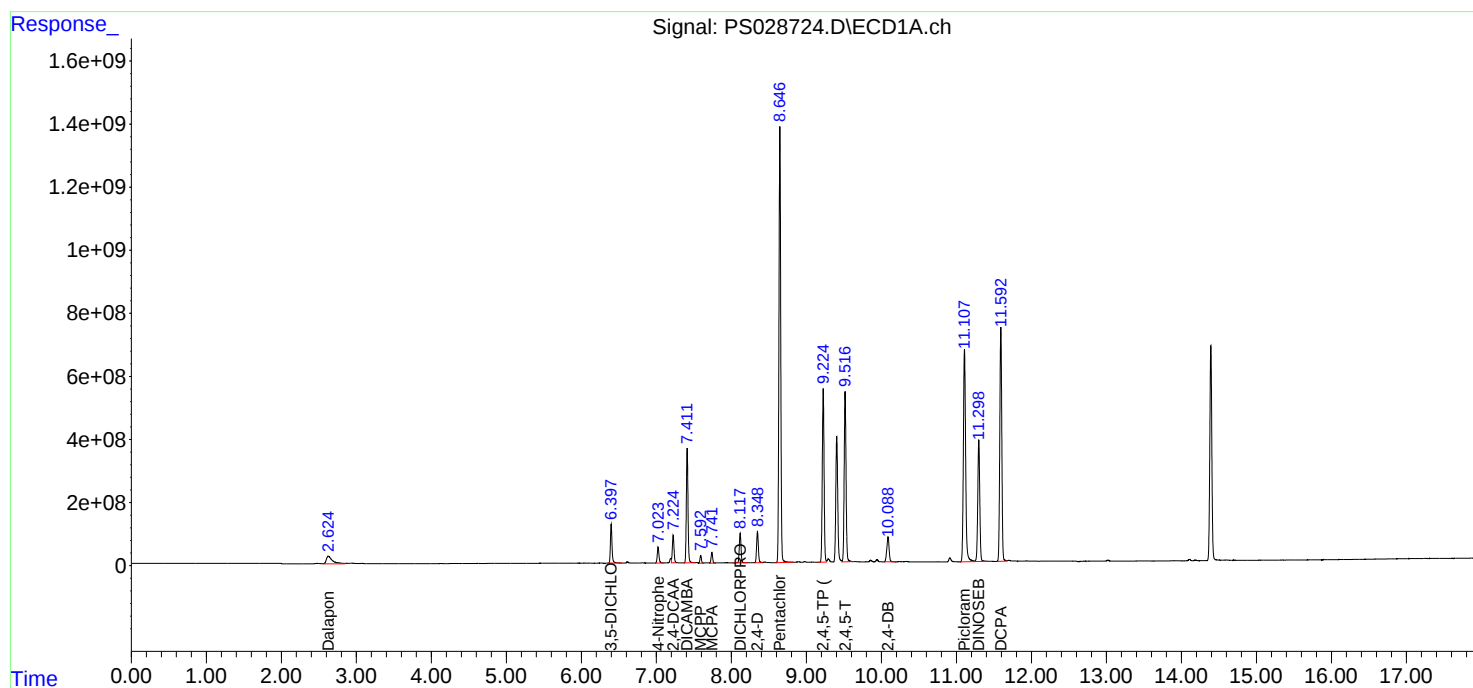
APPROVED

Reviewed By :Abdul Mirza 12/09/2024

Supervised By :Ankita Jodhani 12/09/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:58:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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: PS028724.D\ECD1A.ch

#1 Dalapon

R.T.: 2.626 min
Delta R.T.: -0.004 min
Response: 1378569531
Conc: 475.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

Time

Response_ Signal: PS028724.D\ECD2B.ch

#1 Dalapon

R.T.: 2.685 min
Delta R.T.: -0.003 min
Response: 898040016
Conc: 411.23 ng/ml

Time

Response_ Signal: PS028724.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.398 min
Delta R.T.: -0.001 min
Response: 1835562380
Conc: 479.30 ng/ml

Time

Response_ Signal: PS028724.D\ECD2B.ch

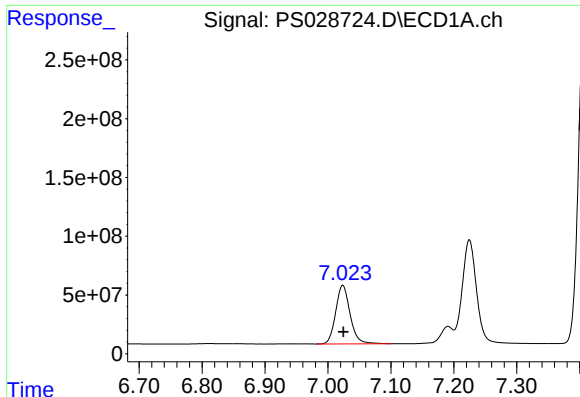
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.677 min
Delta R.T.: -0.004 min
Response: 829126979
Conc: 422.14 ng/ml

Time

Response_ Signal: PS028724.D\ECD2B.ch

Time



#3 4-Nitrophenol

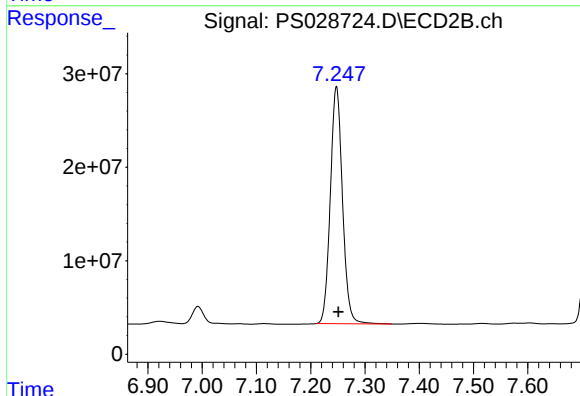
R.T.: 7.024 min
Delta R.T.: -0.001 min
Response: 791104809
Conc: 460.22 ng/ml

Instrument :

ECD_S

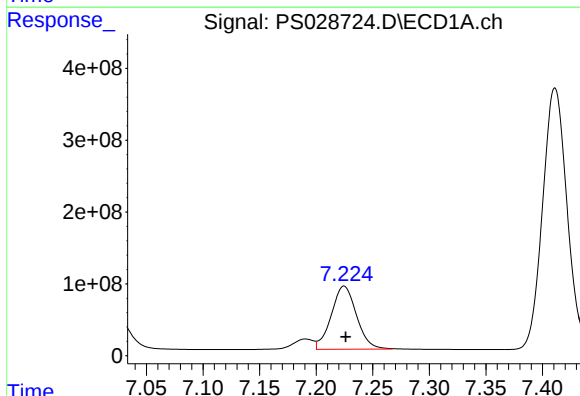
ClientSampleId :
PB165455BSManual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



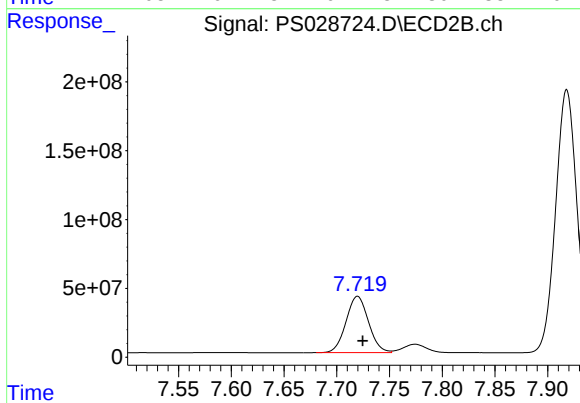
#3 4-Nitrophenol

R.T.: 7.247 min
Delta R.T.: -0.004 min
Response: 393994492
Conc: 431.95 ng/ml



#4 2,4-DCAA

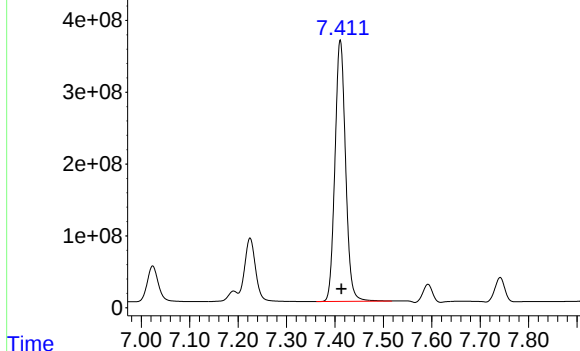
R.T.: 7.224 min
Delta R.T.: -0.002 min
Response: 1363554630
Conc: 508.34 ng/ml m



#4 2,4-DCAA

R.T.: 7.720 min
Delta R.T.: -0.005 min
Response: 607377405
Conc: 450.90 ng/ml

Response_ Signal: PS028724.D\ECD1A.ch



#5 DICAMBA

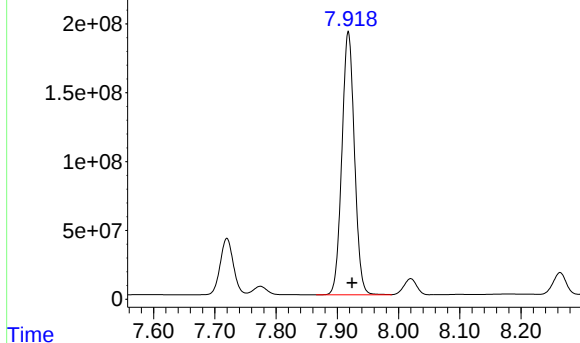
R.T.: 7.411 min
Delta R.T.: -0.002 min
Response: 5530526557
Conc: 481.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

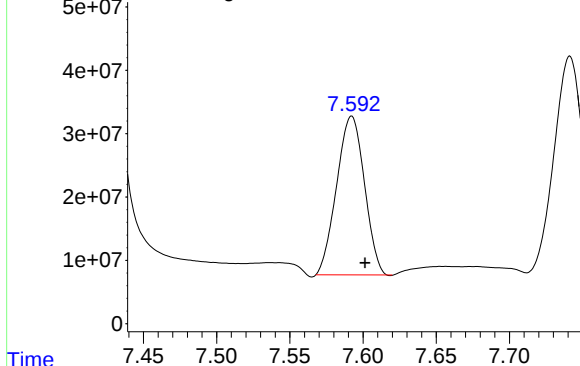
Response_ Signal: PS028724.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.918 min
Delta R.T.: -0.006 min
Response: 2722766902
Conc: 442.28 ng/ml

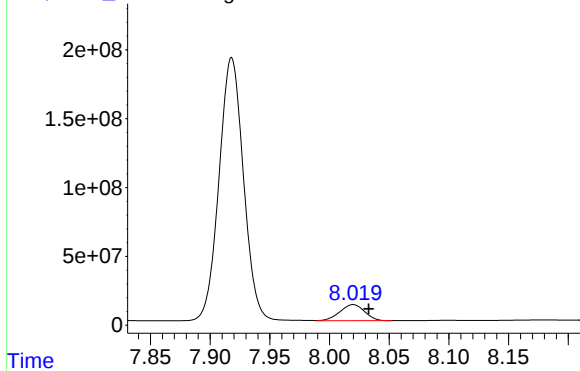
Response_ Signal: PS028724.D\ECD1A.ch



#6 MCP

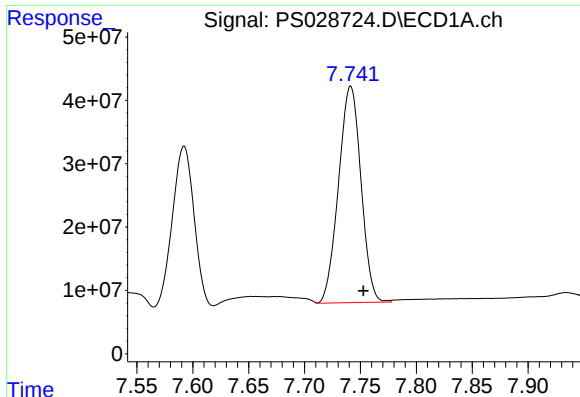
R.T.: 7.592 min
Delta R.T.: -0.009 min
Response: 330757073
Conc: 45.32 ug/ml

Response_ Signal: PS028724.D\ECD2B.ch



#6 MCP

R.T.: 8.020 min
Delta R.T.: -0.013 min
Response: 168303381
Conc: 39.07 ug/ml



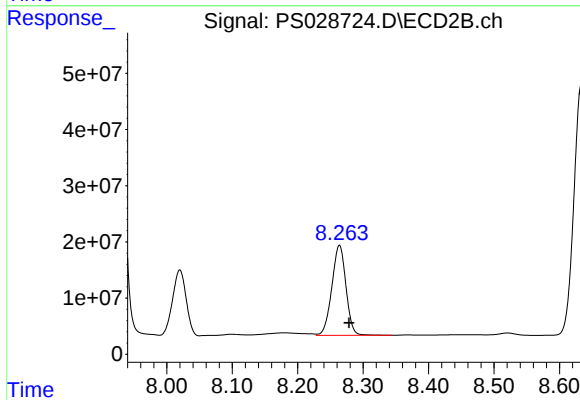
#7 MCPA

R.T.: 7.741 min
Delta R.T.: -0.012 min
Response: 477336093
Conc: 46.17 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS

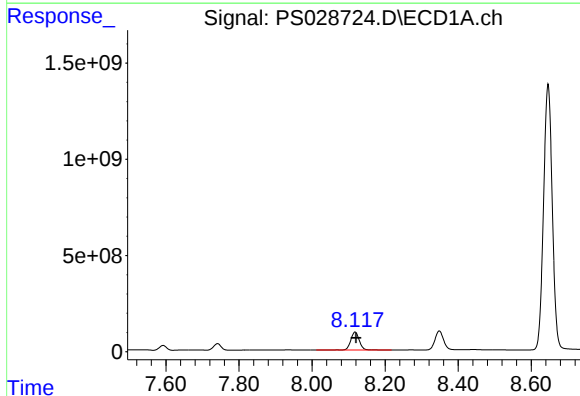
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



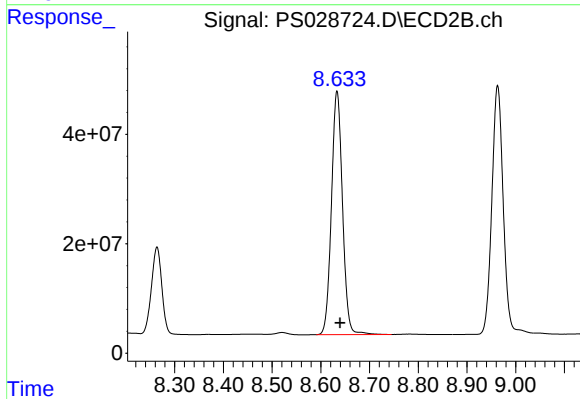
#7 MCPA

R.T.: 8.264 min
Delta R.T.: -0.015 min
Response: 240775922
Conc: 38.80 ug/ml



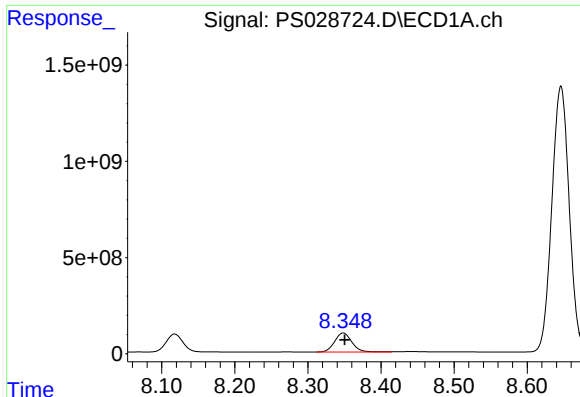
#8 DICHLORPROP

R.T.: 8.118 min
Delta R.T.: -0.003 min
Response: 1505244255
Conc: 483.52 ng/ml



#8 DICHLORPROP

R.T.: 8.633 min
Delta R.T.: -0.006 min
Response: 699846301
Conc: 437.78 ng/ml



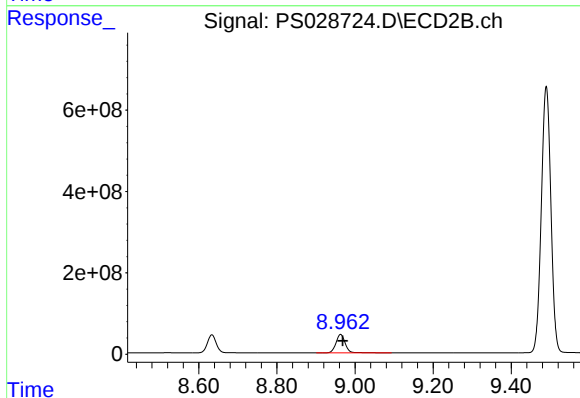
#9 2,4-D

R.T.: 8.348 min
Delta R.T.: -0.002 min
Response: 1622939866
Conc: 481.28 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS

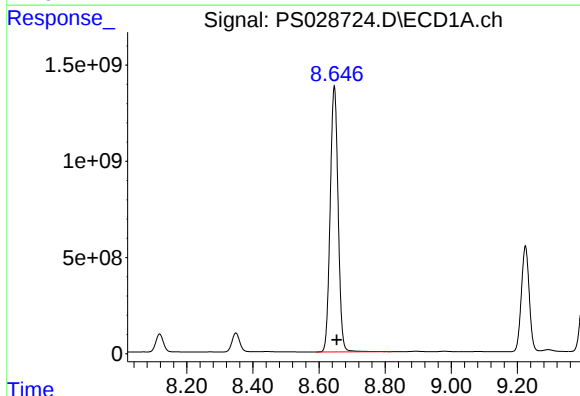
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



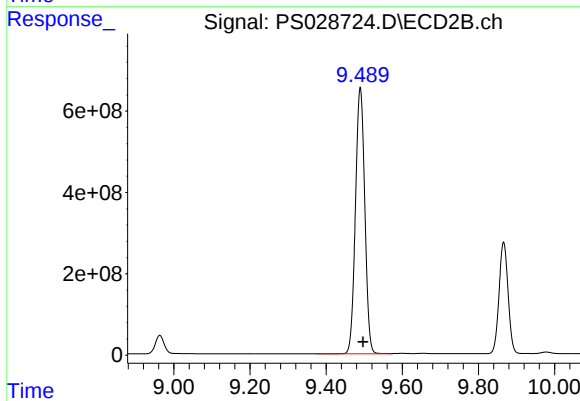
#9 2,4-D

R.T.: 8.963 min
Delta R.T.: -0.006 min
Response: 741992708
Conc: 438.80 ng/ml



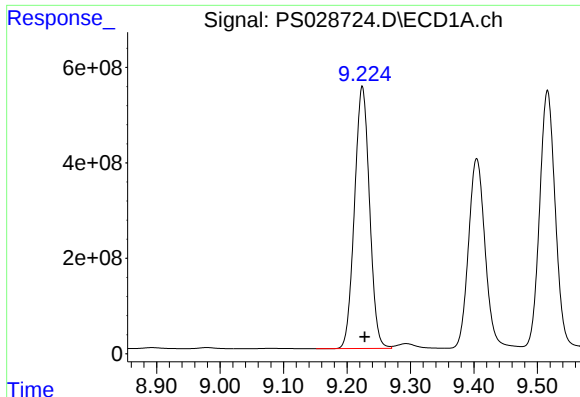
#10 Pentachlorophenol

R.T.: 8.646 min
Delta R.T.: -0.008 min
Response: 22959928970
Conc: 520.72 ng/ml



#10 Pentachlorophenol

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 11108305182
Conc: 485.27 ng/ml



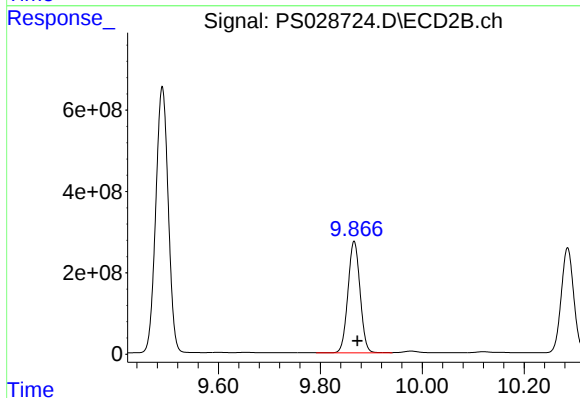
#11 2,4,5-TP (SILVEX)

R.T.: 9.224 min
Delta R.T.: -0.004 min
Response: 9033811106
Conc: 494.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS

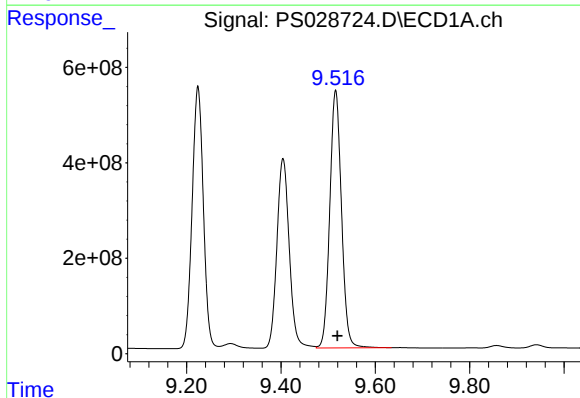
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



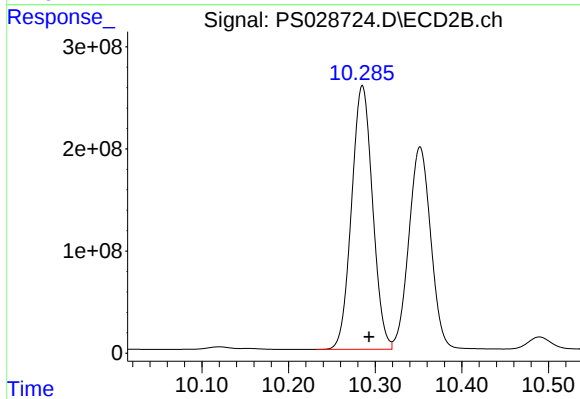
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: -0.007 min
Response: 4519132963
Conc: 473.58 ng/ml



#12 2,4,5-T

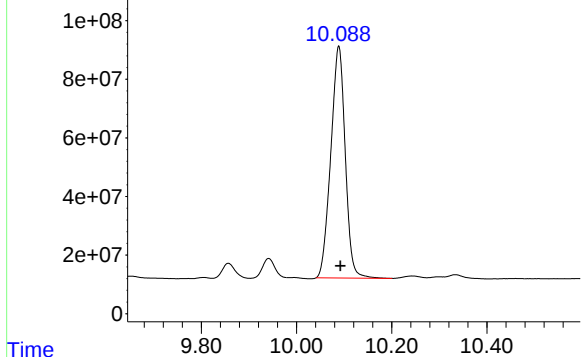
R.T.: 9.516 min
Delta R.T.: -0.004 min
Response: 9264070684
Conc: 493.94 ng/ml



#12 2,4,5-T

R.T.: 10.285 min
Delta R.T.: -0.008 min
Response: 4350521795
Conc: 467.28 ng/ml

Response_ Signal: PS028724.D\ECD1A.ch



#13 2,4-DB

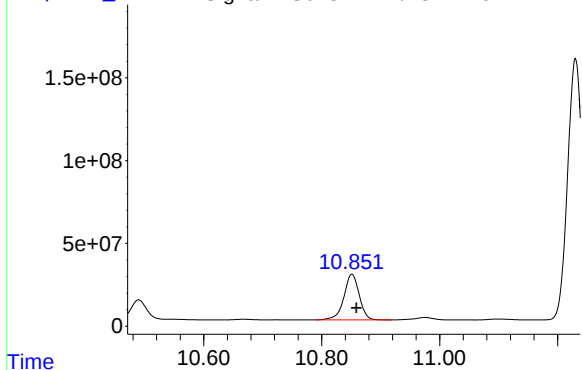
R.T.: 10.088 min
Delta R.T.: -0.004 min
Response: 1663234751
Conc: 469.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

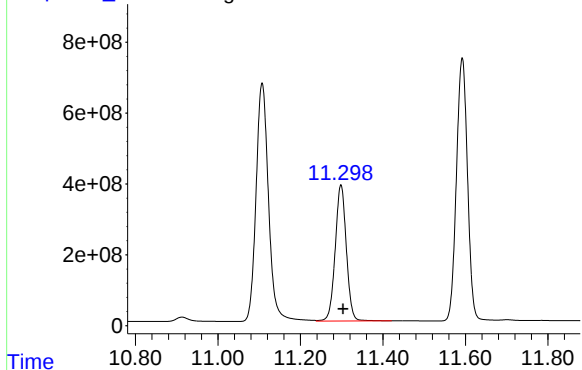
Time Response_ Signal: PS028724.D\ECD2B.ch



#13 2,4-DB

R.T.: 10.851 min
Delta R.T.: -0.008 min
Response: 496980071
Conc: 433.39 ng/ml

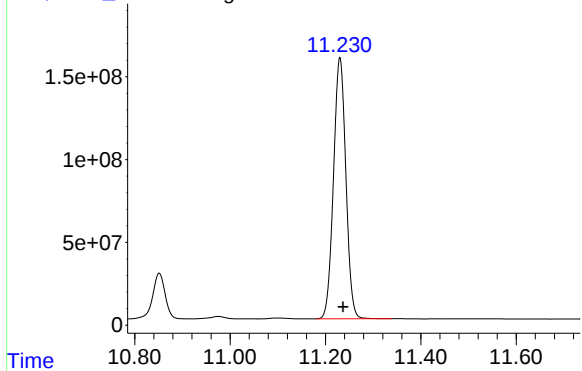
Time Response_ Signal: PS028724.D\ECD1A.ch



#14 DINOSEB

R.T.: 11.298 min
Delta R.T.: -0.005 min
Response: 7190252817
Conc: 478.51 ng/ml

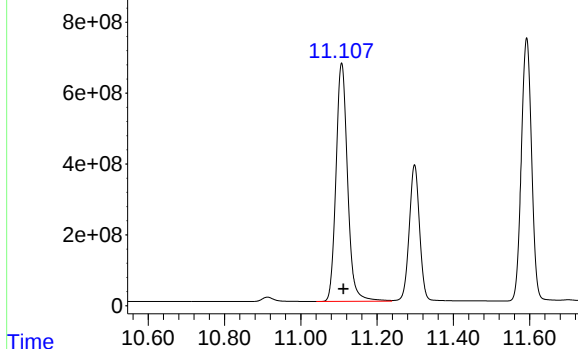
Time Response_ Signal: PS028724.D\ECD2B.ch



#14 DINOSEB

R.T.: 11.230 min
Delta R.T.: -0.007 min
Response: 2836775806
Conc: 452.00 ng/ml

Response_ Signal: PS028724.D\ECD1A.ch



#15 Picloram

R.T.: 11.107 min
Delta R.T.: -0.004 min
Response: 14089359210
Conc: 473.80 ng/ml

Instrument :

ECD_S

ClientSampleId :

PB165455BS

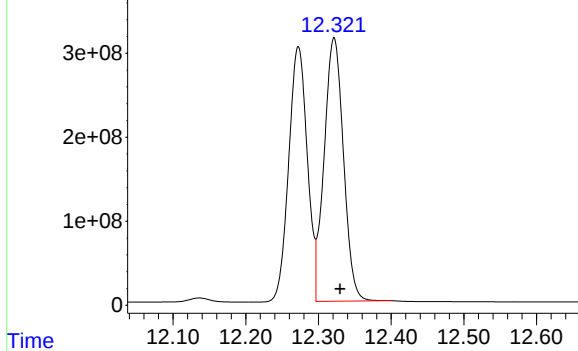
Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024

Supervised By :Ankita Jodhani 12/09/2024

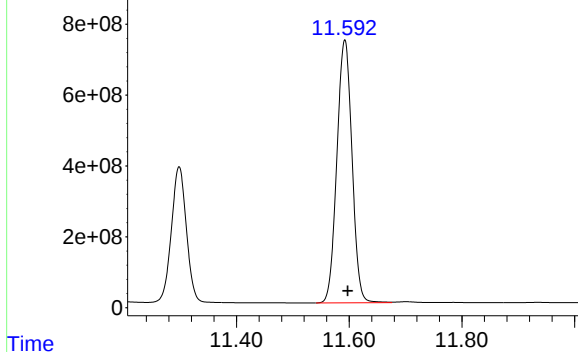
Response_ Signal: PS028724.D\ECD2B.ch



#15 Picloram

R.T.: 12.321 min
Delta R.T.: -0.008 min
Response: 5789055070
Conc: 449.09 ng/ml

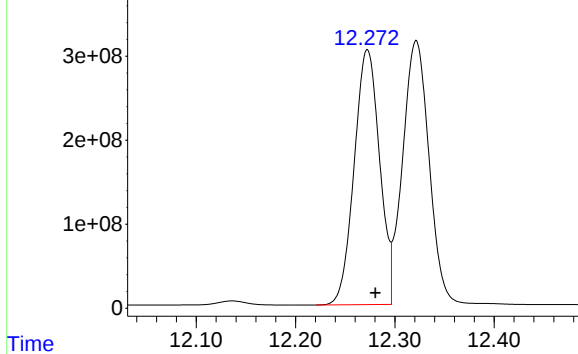
Response_ Signal: PS028724.D\ECD1A.ch



#16 DCPA

R.T.: 11.592 min
Delta R.T.: -0.005 min
Response: 13826469563
Conc: 502.87 ng/ml

Response_ Signal: PS028724.D\ECD2B.ch



#16 DCPA

R.T.: 12.272 min
Delta R.T.: -0.008 min
Response: 5401515003
Conc: 486.74 ng/ml

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/05/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/05/24
Client Sample ID:	TAPIAL2-IDW-SOIL-120424-00-T2MS	SDG No.:	P5117
Lab Sample ID:	P5117-02MS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028721.D	1	12/06/24 10:45	12/06/24 16:57	PB165455

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	52.8		4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	85.0	P	4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	358		32 - 138		72%	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\PS120624\
 Data File : PS028721.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Dec 2024 16:57
 Operator : AR\AJ
 Sample : P5117-02MS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TAPIAL2-IDW-SOIL-120424-00-T2MS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/09/2024
 Supervised By :Ankita Jodhani 12/09/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 22:57:15 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:44:30 2024
 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	7.226	7.720	961.6E6	356.0E6	358.484	264.279 #
Target Compounds							
1) T	Dalapon	2.630	2.688	1079.7E6	809.3E6	372.078m	370.574m
2) T	3,5-DICHL...	6.398	6.678	1606.1E6	715.8E6	419.373	364.458
3) T	4-Nitroph...	7.025	7.249	19283881	8785699	11.218	9.632m
5) T	DICAMBA	7.412	7.919	5044.2E6	2609.7E6	439.366	423.918
6) T	MCPD	7.593	8.021	235.9E6	165.2E6	32.330	38.352
7) T	MCPA	7.742	8.265	424.1E6	315.7E6	41.019	50.870
8) T	DICHLORPROP	8.118	8.634	1363.8E6	649.7E6	438.097	406.393
9) T	2,4-D	8.348	8.963	1782.0E6	813.6E6	528.453	481.167
10) T	Pentachlo...	8.647	9.490	13854.9E6	6606.7E6	314.224	288.617
11) T	2,4,5-TP ...	9.224	9.870	8987.5E6	8115.0E6	491.666	850.407 #
12) T	2,4,5-T	9.516	10.286	9128.8E6	4349.6E6	486.724	467.186
13) T	2,4-DB	10.090	10.851	1134.2E6	436.3E6	320.230	380.470
14) T	DINOSEB	11.298	11.230	3258.8E6	1222.2E6	216.877	194.738
15) T	Picloram	11.107	12.321	12573.4E6	5247.1E6	422.823	407.046
16) T	DCPA	11.590	12.273	12014.0E6	5501.9E6	436.951	495.789

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028721.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 16:57
Operator : AR\AJ
Sample : P5117-02MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MS

Manual Integrations

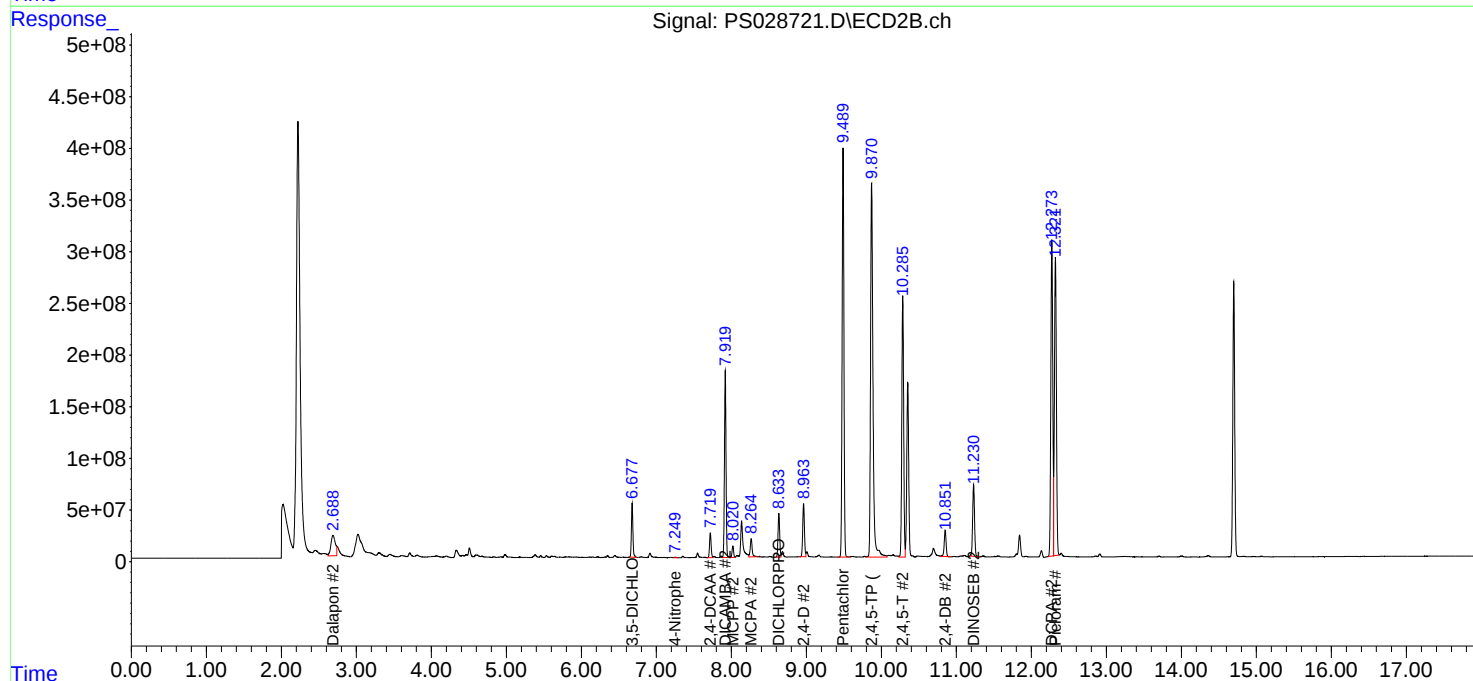
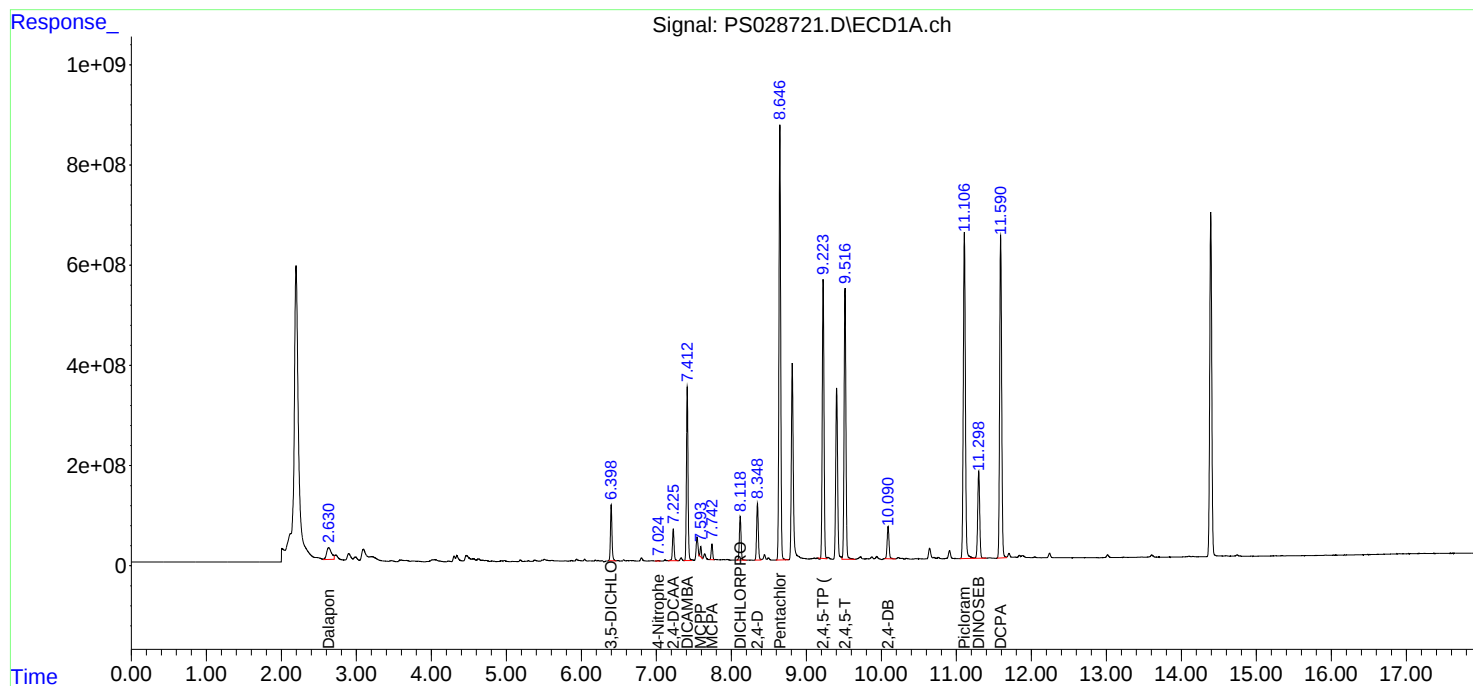
APPROVED

Reviewed By :Abdul Mirza 12/09/2024

Supervised By :Ankita Jodhani 12/09/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:57:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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: PS028721.D\ECD1A.ch

#1 Dalapon

R.T.: 2.630 min
Delta R.T.: 0.000 min
Response: 1079713508
Conc: 372.08 ng/ml

Instrument :

ECD_S

ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

Time

Response_ Signal: PS028721.D\ECD2B.ch

#1 Dalapon

R.T.: 2.688 min
Delta R.T.: 0.000 min
Response: 809263957
Conc: 370.57 ng/ml m

Time

Response_ Signal: PS028721.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.398 min
Delta R.T.: 0.000 min
Response: 1606054653
Conc: 419.37 ng/ml

Time

Response_ Signal: PS028721.D\ECD2B.ch

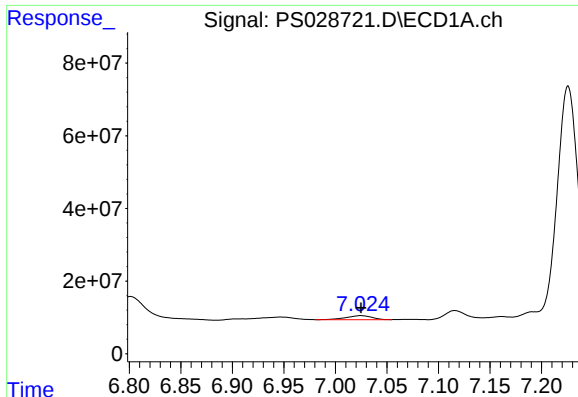
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.678 min
Delta R.T.: -0.004 min
Response: 715827745
Conc: 364.46 ng/ml

Time

Response_ Signal: PS028721.D\ECD2B.ch

Time



#3 4-Nitrophenol

R.T.: 7.025 min
Delta R.T.: 0.000 min
Response: 19283881
Conc: 11.22 ng/ml

Instrument :

ECD_S

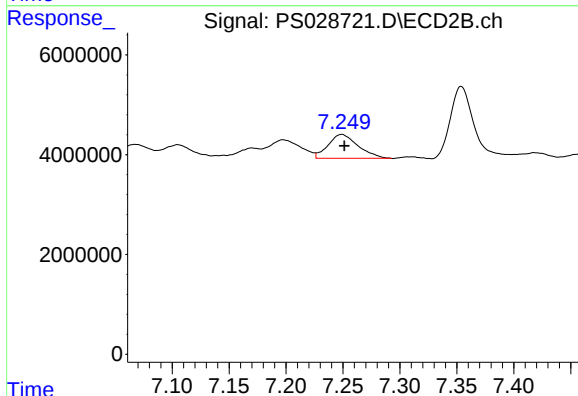
ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MS

Manual Integrations

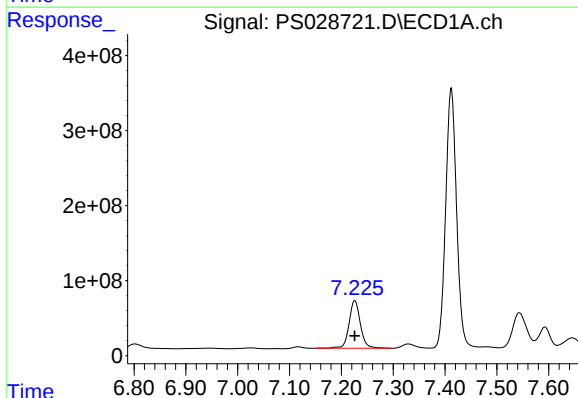
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



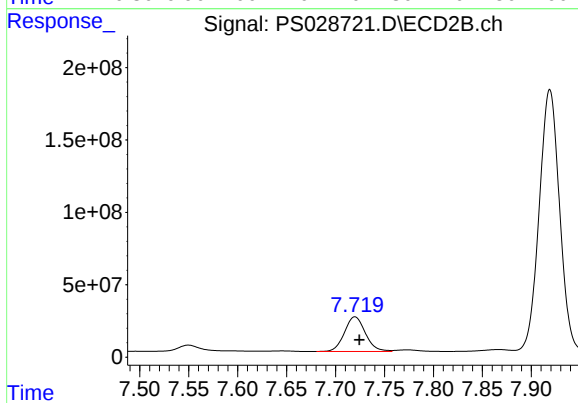
#3 4-Nitrophenol

R.T.: 7.249 min
Delta R.T.: -0.003 min
Response: 8785699
Conc: 9.63 ng/ml m



#4 2,4-DCAA

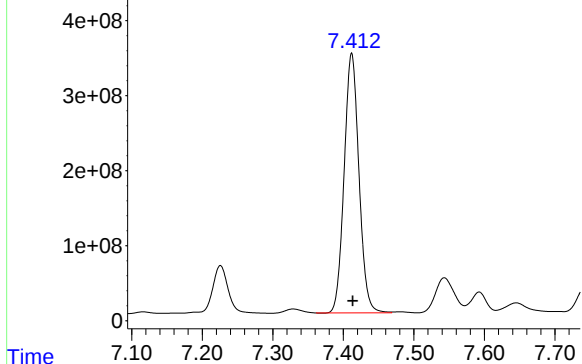
R.T.: 7.226 min
Delta R.T.: 0.000 min
Response: 961575751
Conc: 358.48 ng/ml



#4 2,4-DCAA

R.T.: 7.720 min
Delta R.T.: -0.005 min
Response: 355992051
Conc: 264.28 ng/ml

Response_ Signal: PS028721.D\ECD1A.ch



#5 DICAMBA

R.T.: 7.412 min
Delta R.T.: -0.001 min
Response: 5044154016
Conc: 439.37 ng/ml

Instrument :

ECD_S

ClientSampleId :

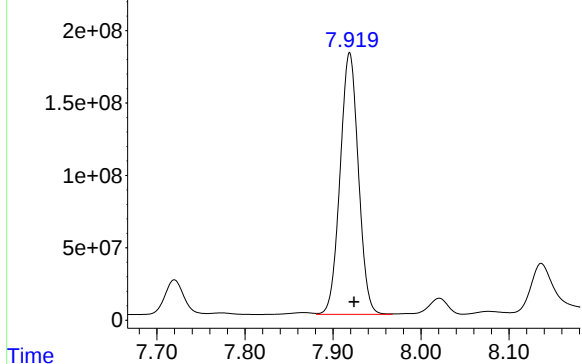
TAPIAL2-IDW-SOIL-120424-00-T2MS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

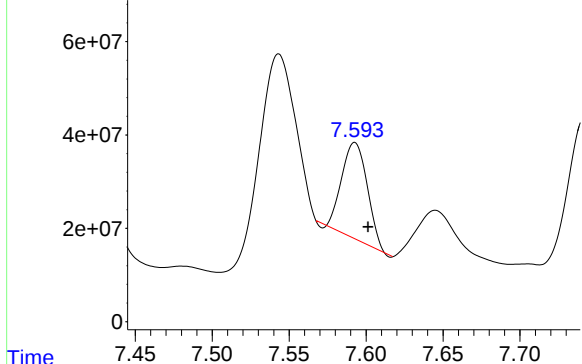
Response_ Signal: PS028721.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.919 min
Delta R.T.: -0.005 min
Response: 2609731616
Conc: 423.92 ng/ml

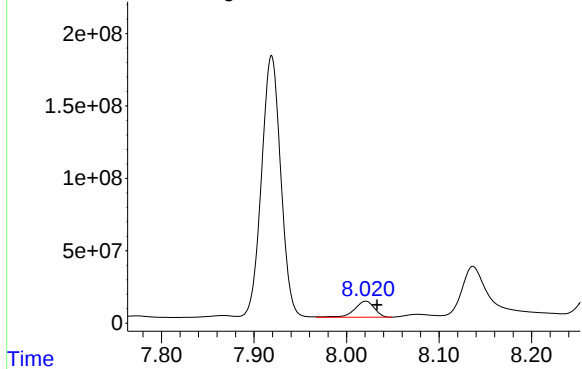
Response_ Signal: PS028721.D\ECD1A.ch



#6 MCP

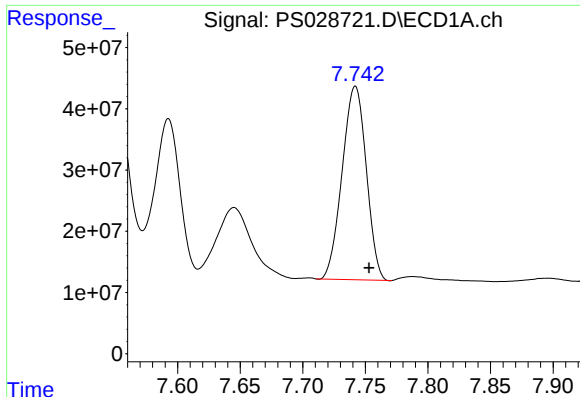
R.T.: 7.593 min
Delta R.T.: -0.009 min
Response: 235929693
Conc: 32.33 ug/ml

Response_ Signal: PS028721.D\ECD2B.ch



#6 MCP

R.T.: 8.021 min
Delta R.T.: -0.012 min
Response: 165203143
Conc: 38.35 ug/ml



#7 MCPA

R.T.: 7.742 min
Delta R.T.: -0.011 min
Response: 424098836
Conc: 41.02 ug/ml

Instrument :

ECD_S

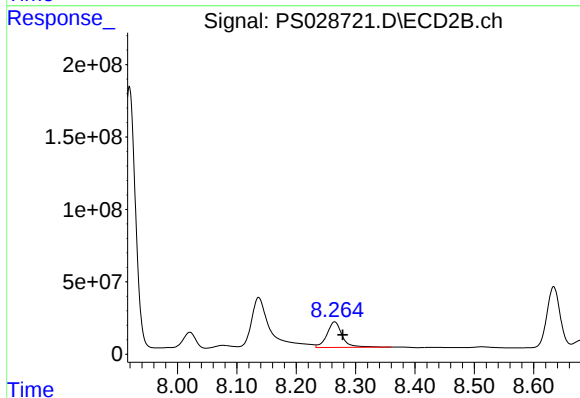
ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MS

Manual Integrations

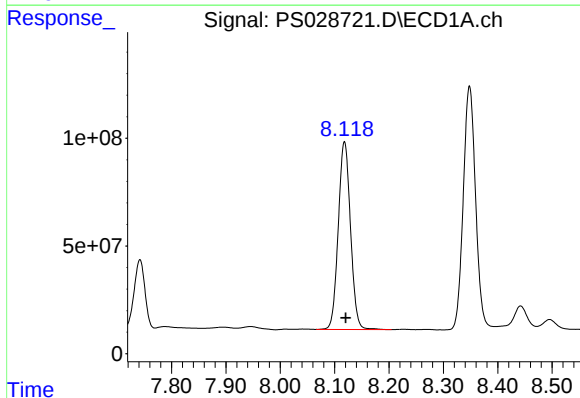
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



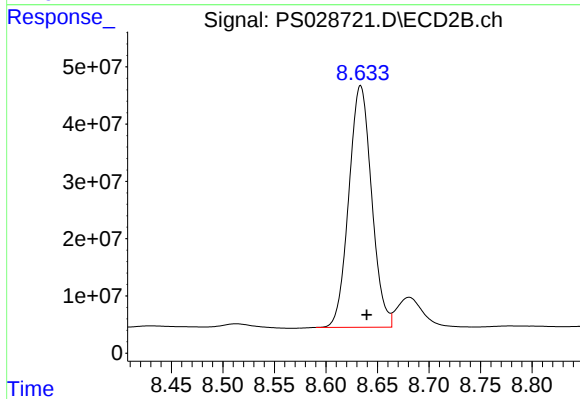
#7 MCPA

R.T.: 8.265 min
Delta R.T.: -0.014 min
Response: 315702066
Conc: 50.87 ug/ml



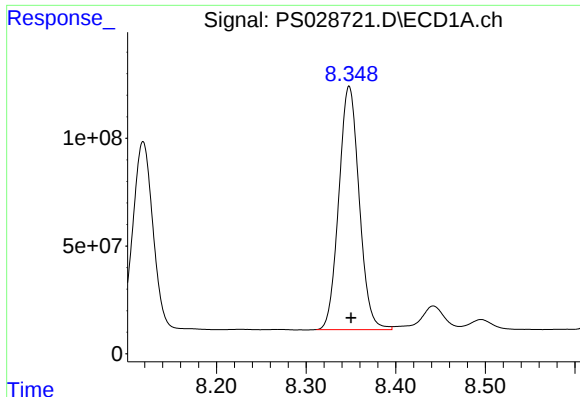
#8 DICHLORPROP

R.T.: 8.118 min
Delta R.T.: -0.003 min
Response: 1363841026
Conc: 438.10 ng/ml



#8 DICHLORPROP

R.T.: 8.634 min
Delta R.T.: -0.006 min
Response: 649666823
Conc: 406.39 ng/ml



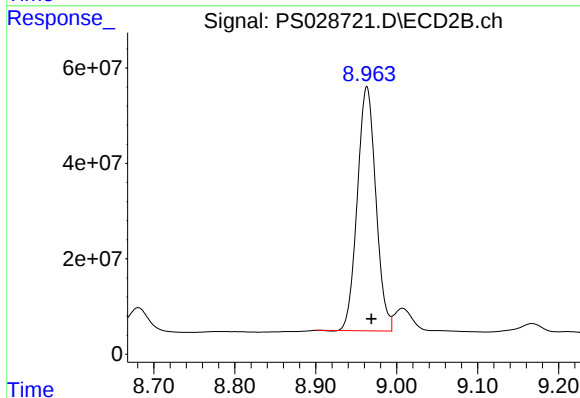
#9 2,4-D

R.T.: 8.348 min
Delta R.T.: -0.002 min
Response: 1782021955
Conc: 528.45 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MS

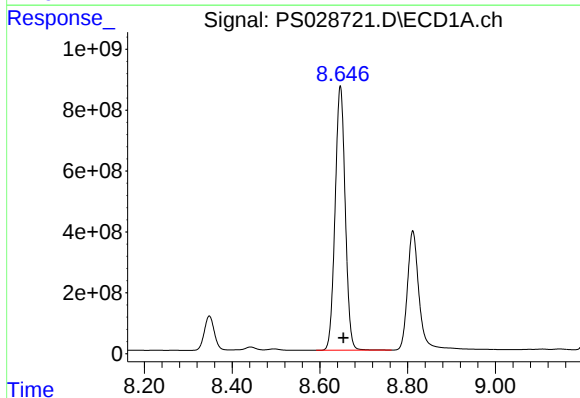
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



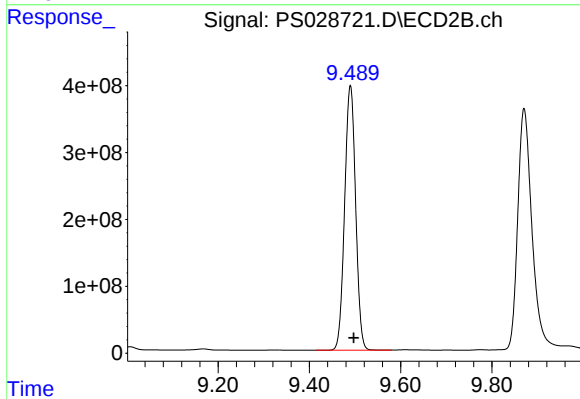
#9 2,4-D

R.T.: 8.963 min
Delta R.T.: -0.006 min
Response: 813638662
Conc: 481.17 ng/ml



#10 Pentachlorophenol

R.T.: 8.647 min
Delta R.T.: -0.007 min
Response: 13854947078
Conc: 314.22 ng/ml



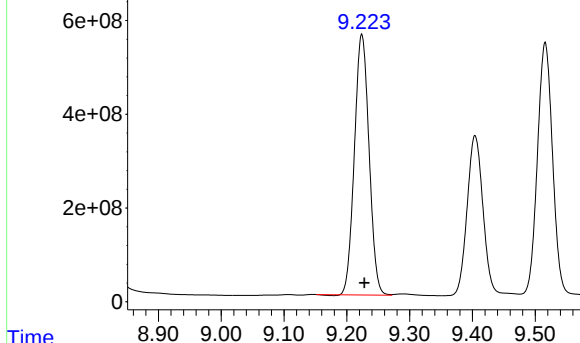
#10 Pentachlorophenol

R.T.: 9.490 min
Delta R.T.: -0.007 min
Response: 6606701698
Conc: 288.62 ng/ml

Response_

Signal: PS028721.D\ECD1A.ch

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



R.T.: 9.224 min
Delta R.T.: -0.004 min
Response: 8987544021
Conc: 491.67 ng/ml

Instrument :

ECD_S

ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MS

Manual Integrations

APPROVED

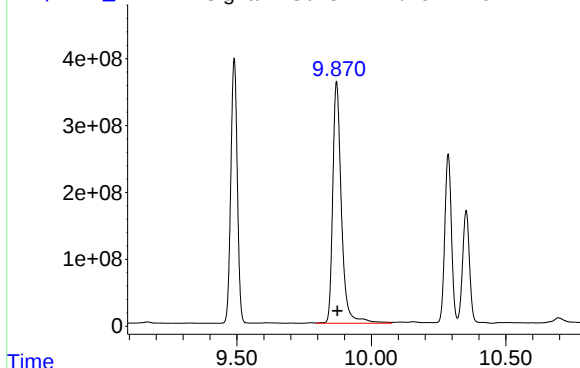
Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

Time

Response_

Signal: PS028721.D\ECD2B.ch

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



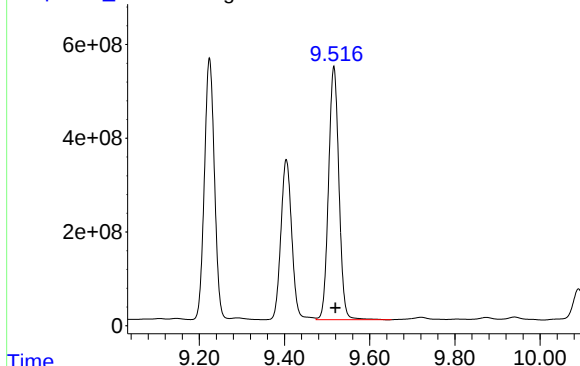
R.T.: 9.870 min
Delta R.T.: -0.003 min
Response: 8115024179
Conc: 850.41 ng/ml

Time

Response_

Signal: PS028721.D\ECD1A.ch

#12 2,4,5-T



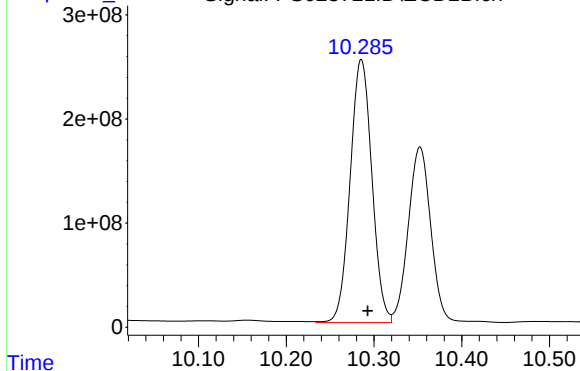
R.T.: 9.516 min
Delta R.T.: -0.004 min
Response: 9128755579
Conc: 486.72 ng/ml

Time

Response_

Signal: PS028721.D\ECD2B.ch

#12 2,4,5-T



R.T.: 10.286 min
Delta R.T.: -0.007 min
Response: 4349636311
Conc: 467.19 ng/ml

Time

Response_ Signal: PS028721.D\ECD1A.ch

#13 2,4-DB

R.T.: 10.090 min
Delta R.T.: -0.002 min
Response: 1134159948
Conc: 320.23 ng/ml

Instrument :

ECD_S

ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024

Supervised By :Ankita Jodhani 12/09/2024

Time Response_ Signal: PS028721.D\ECD2B.ch

#13 2,4-DB

R.T.: 10.851 min
Delta R.T.: -0.008 min
Response: 436293344
Conc: 380.47 ng/ml

Time Response_ Signal: PS028721.D\ECD1A.ch

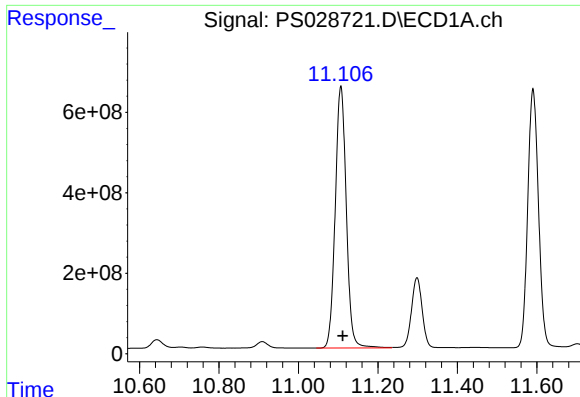
#14 DINOSEB

R.T.: 11.298 min
Delta R.T.: -0.005 min
Response: 3258842590
Conc: 216.88 ng/ml

Time Response_ Signal: PS028721.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.230 min
Delta R.T.: -0.007 min
Response: 1222182638
Conc: 194.74 ng/ml



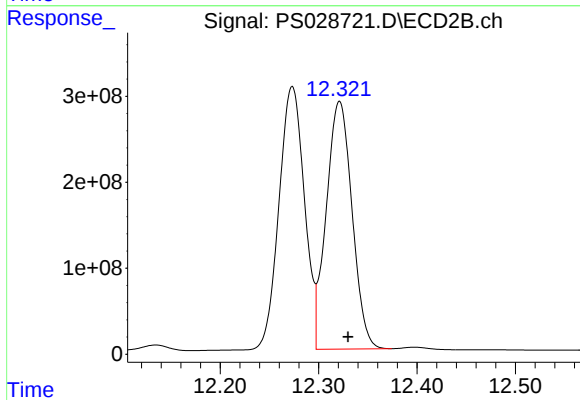
#15 Picloram

R.T.: 11.107 min
Delta R.T.: -0.005 min
Response: 12573395315
Conc: 422.82 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MS

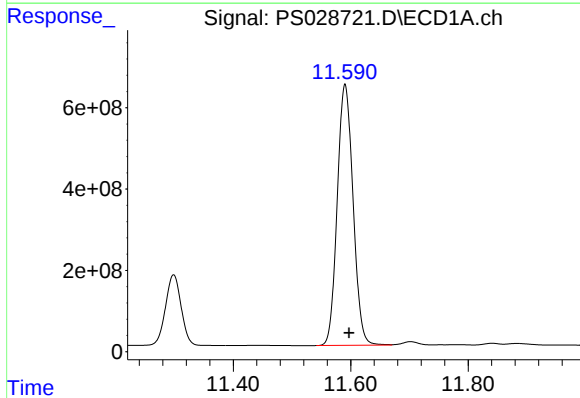
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



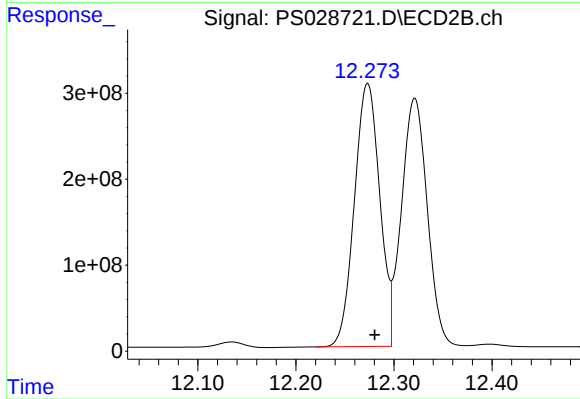
#15 Picloram

R.T.: 12.321 min
Delta R.T.: -0.009 min
Response: 5247105002
Conc: 407.05 ng/ml



#16 DCPA

R.T.: 11.590 min
Delta R.T.: -0.007 min
Response: 12014015358
Conc: 436.95 ng/ml



#16 DCPA

R.T.: 12.273 min
Delta R.T.: -0.007 min
Response: 5501879777
Conc: 495.79 ng/ml

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/05/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/05/24
Client Sample ID:	TAPIAL2-IDW-SOIL-120424-00-T2MSD	SDG No.:	P5117
Lab Sample ID:	P5117-02MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028722.D	1	12/06/24 10:45	12/06/24 17:21	PB165455

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	52.9		4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	84.9	P	4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	361		32 - 138		72%	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\PS120624\
 Data File : PS028722.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Dec 2024 17:21
 Operator : AR\AJ
 Sample : P5117-02MSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TAPIAL2-IDW-SOIL-120424-00-T2MSD

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/09/2024
 Supervised By :Ankita Jodhani 12/09/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 22:57:31 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:44:30 2024
 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	7.225	7.720	969.1E6	355.5E6	361.273	263.882 #
Target Compounds							
1) T	Dalapon	2.631	2.688	1118.1E6	859.0E6	385.303m	393.347m
2) T	3,5-DICHL...	6.398	6.678	1596.0E6	717.8E6	416.759	365.452
3) T	4-Nitroph...	7.025	7.250	19290955	8616140	11.222	9.446m
5) T	DICAMBA	7.411	7.919	5042.2E6	2608.1E6	439.192	423.656
6) T	MCPD	7.592	8.021	230.7E6	166.1E6	31.619	38.567
7) T	MCPA	7.741	8.265	423.8E6	315.5E6	40.987	50.833
8) T	DICHLORPROP	8.118	8.634	1359.8E6	652.1E6	436.810	407.901
9) T	2,4-D	8.348	8.963	1782.5E6	822.3E6	528.589	486.266
10) T	Pentachlo...	8.646	9.490	13789.9E6	6599.3E6	312.749	288.295
11) T	2,4,5-TP ...	9.224	9.870	8997.2E6	8103.7E6	492.193	849.219 #
12) T	2,4,5-T	9.516	10.286	9184.7E6	4374.0E6	489.704	469.804
13) T	2,4-DB	10.091	10.852	1135.3E6	439.4E6	320.546	383.188
14) T	DINOSEB	11.299	11.231	3248.5E6	1219.6E6	216.191	194.324
15) T	Picloram	11.107	12.322	12596.4E6	5258.8E6	423.598	407.957
16) T	DCPA	11.591	12.273	11997.3E6	5511.1E6	436.342	496.622

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028722.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 17:21
Operator : AR\AJ
Sample : P5117-02MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MSD

Manual Integrations

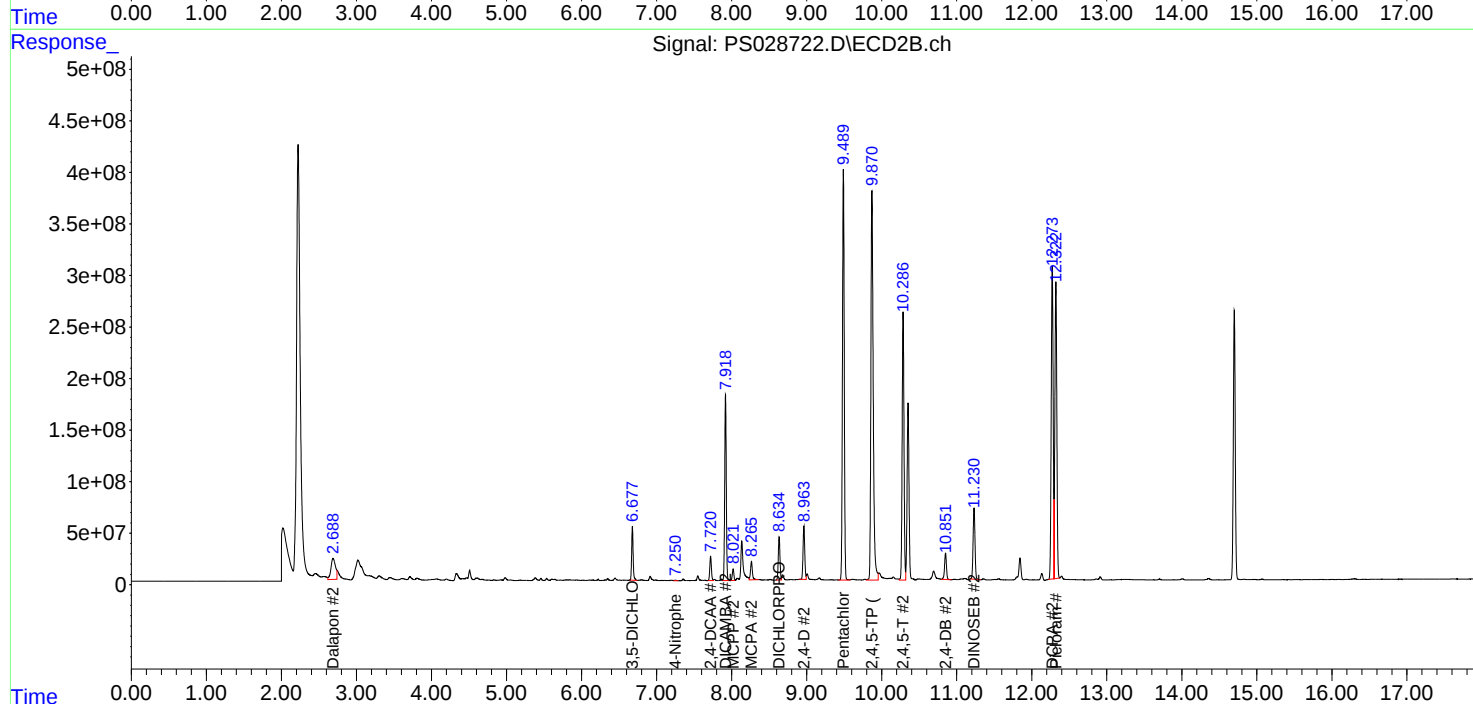
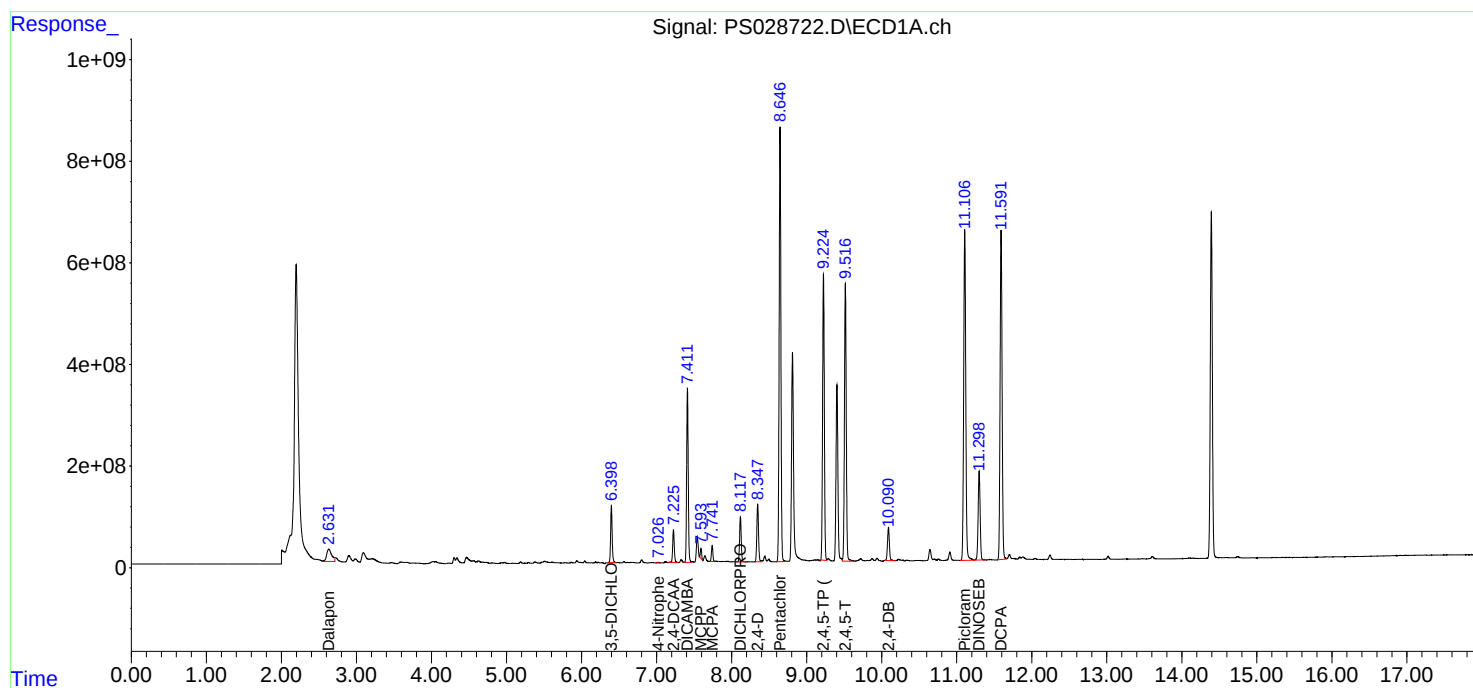
APPROVED

Reviewed By :Abdul Mirza 12/09/2024

Supervised By :Ankita Jodhani 12/09/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:57:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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: PS028722.D\ECD1A.ch

#1 Dalapon

R.T.: 2.631 min
Delta R.T.: 0.000 min
Response: 1118091170
Conc: 385.30 ng/ml

Instrument :

ECD_S

ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MSD

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024

Time

Response_ Signal: PS028722.D\ECD2B.ch

#1 Dalapon

R.T.: 2.688 min
Delta R.T.: 0.000 min
Response: 858995798
Conc: 393.35 ng/ml m

Time

Response_ Signal: PS028722.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.398 min
Delta R.T.: 0.000 min
Response: 1596042265
Conc: 416.76 ng/ml

Time

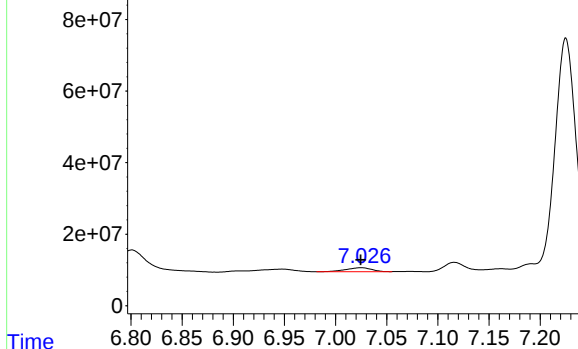
Response_ Signal: PS028722.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.678 min
Delta R.T.: -0.004 min
Response: 717781779
Conc: 365.45 ng/ml

Time

Response_ Signal: PS028722.D\ECD1A.ch



#3 4-Nitrophenol

R.T.: 7.025 min
Delta R.T.: 0.000 min
Response: 19290955
Conc: 11.22 ng/ml

Instrument :

ECD_S

ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MSD

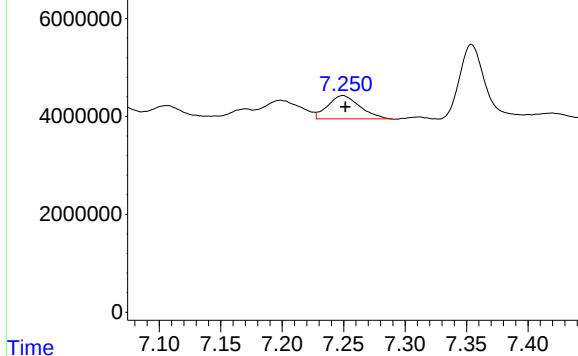
Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/09/2024

Supervised By :Ankita Jodhani 12/09/2024

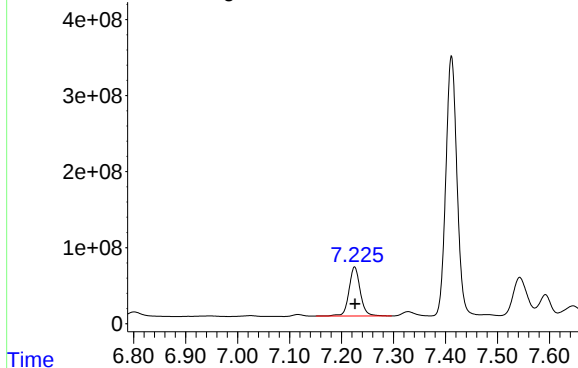
Response_ Signal: PS028722.D\ECD2B.ch



#3 4-Nitrophenol

R.T.: 7.250 min
Delta R.T.: -0.002 min
Response: 8616140
Conc: 9.45 ng/ml m

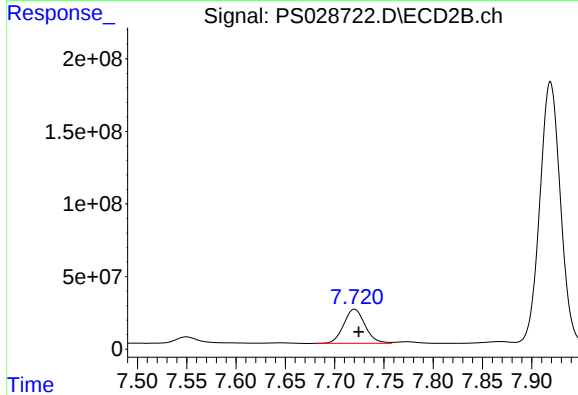
Response_ Signal: PS028722.D\ECD1A.ch



#4 2,4-DCAA

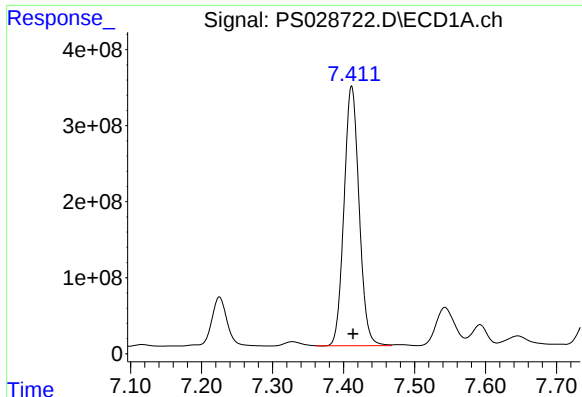
R.T.: 7.225 min
Delta R.T.: 0.000 min
Response: 969058244
Conc: 361.27 ng/ml

Response_ Signal: PS028722.D\ECD2B.ch



#4 2,4-DCAA

R.T.: 7.720 min
Delta R.T.: -0.004 min
Response: 355457065
Conc: 263.88 ng/ml



#5 DICAMBA

R.T.: 7.411 min
Delta R.T.: -0.002 min
Response: 5042162335
Conc: 439.19 ng/ml

Instrument :

ECD_S

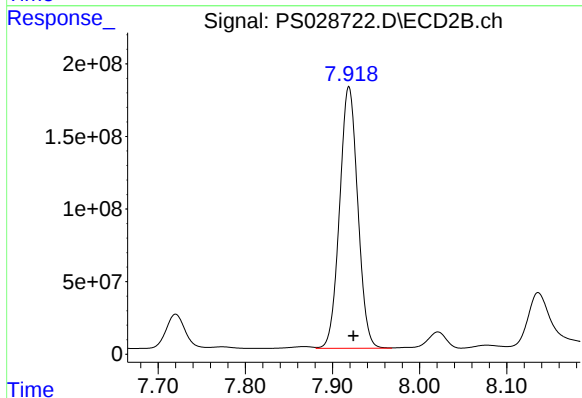
ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MSD

Manual Integrations

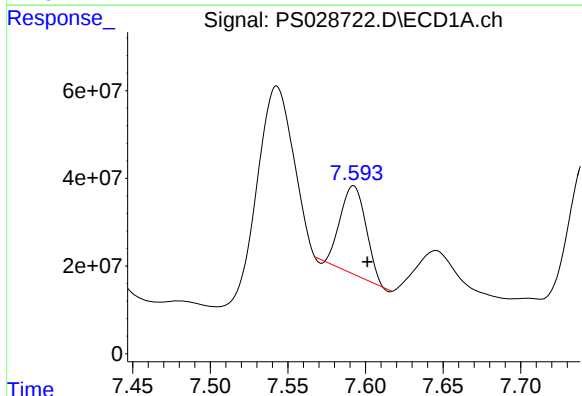
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



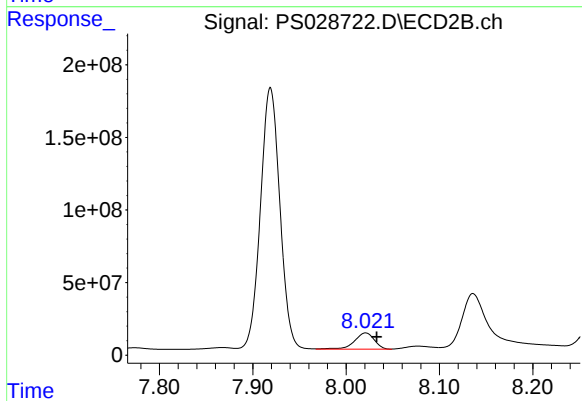
#5 DICAMBA

R.T.: 7.919 min
Delta R.T.: -0.005 min
Response: 2608114704
Conc: 423.66 ng/ml



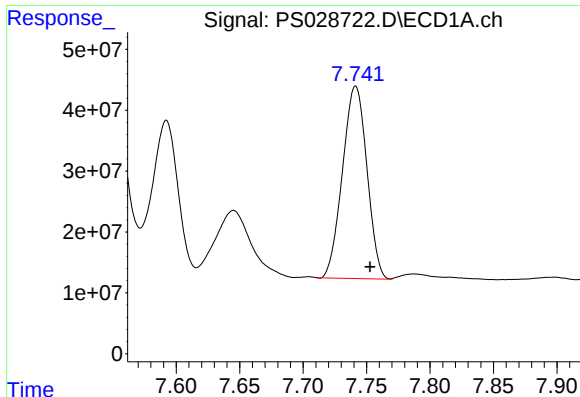
#6 MCPP

R.T.: 7.592 min
Delta R.T.: -0.009 min
Response: 230741633
Conc: 31.62 ug/ml



#6 MCPP

R.T.: 8.021 min
Delta R.T.: -0.012 min
Response: 166128471
Conc: 38.57 ug/ml



#7 MCPA

R.T.: 7.741 min
Delta R.T.: -0.011 min
Response: 423761288
Conc: 40.99 ug/ml

Instrument :

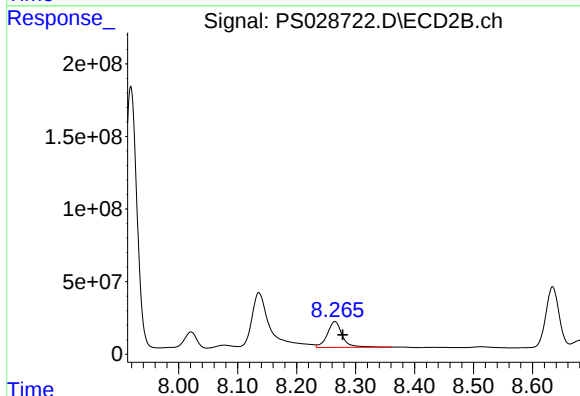
ECD_S

ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MSD

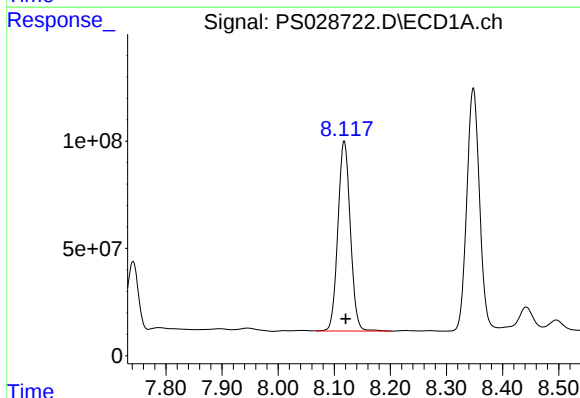
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



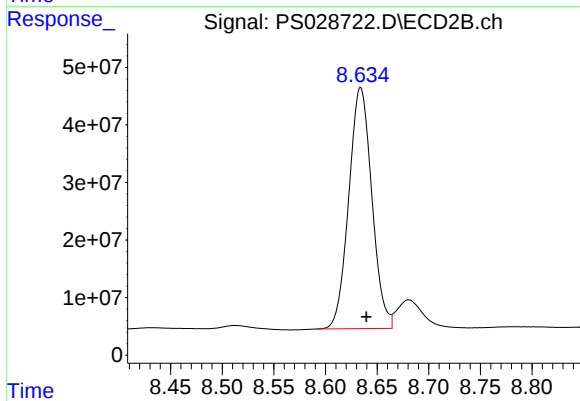
#7 MCPA

R.T.: 8.265 min
Delta R.T.: -0.013 min
Response: 315473506
Conc: 50.83 ug/ml



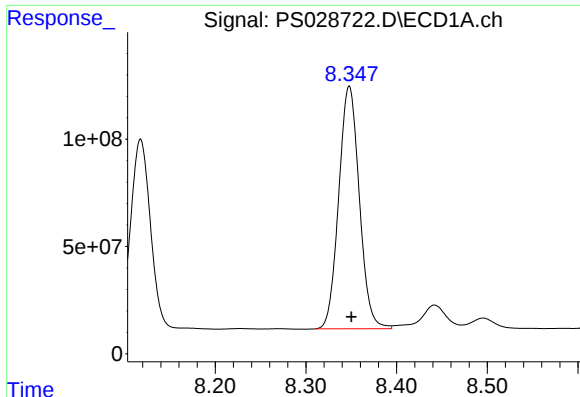
#8 DICHLORPROP

R.T.: 8.118 min
Delta R.T.: -0.003 min
Response: 1359836294
Conc: 436.81 ng/ml



#8 DICHLORPROP

R.T.: 8.634 min
Delta R.T.: -0.006 min
Response: 652078609
Conc: 407.90 ng/ml



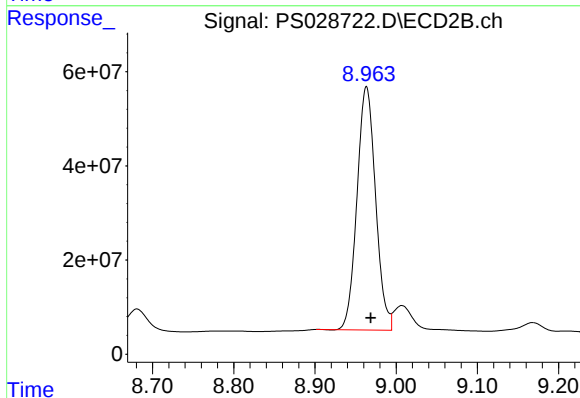
#9 2,4-D

R.T.: 8.348 min
Delta R.T.: -0.002 min
Response: 1782479998
Conc: 528.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MSD

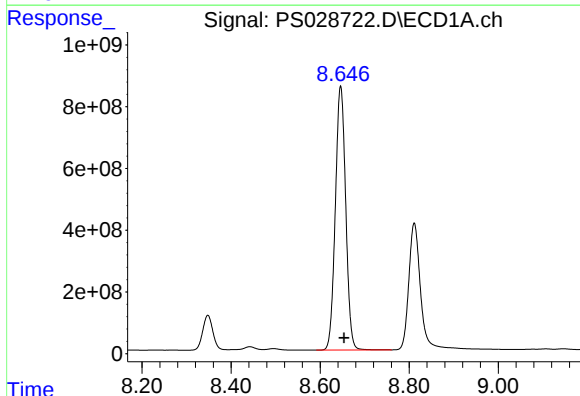
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



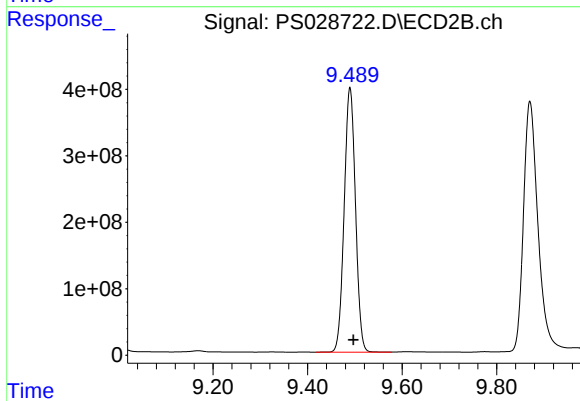
#9 2,4-D

R.T.: 8.963 min
Delta R.T.: -0.005 min
Response: 822260751
Conc: 486.27 ng/ml



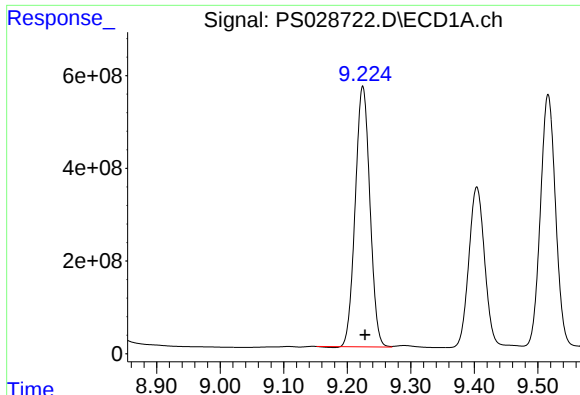
#10 Pentachlorophenol

R.T.: 8.646 min
Delta R.T.: -0.008 min
Response: 13789923060
Conc: 312.75 ng/ml



#10 Pentachlorophenol

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 6599326819
Conc: 288.30 ng/ml



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

R.T.: 9.224 min
Delta R.T.: -0.003 min
Response: 8997181233
Conc: 492.19 ng/ml

Instrument :

ECD_S

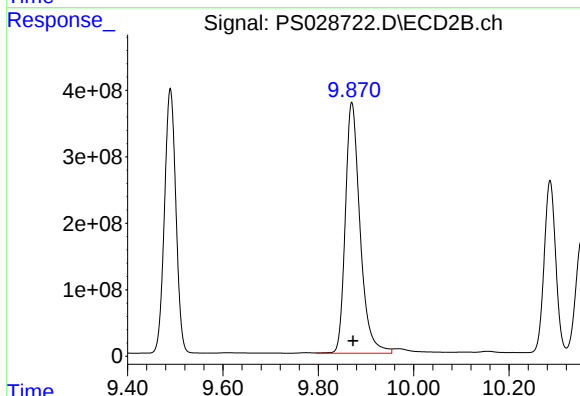
ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MSD

Manual Integrations

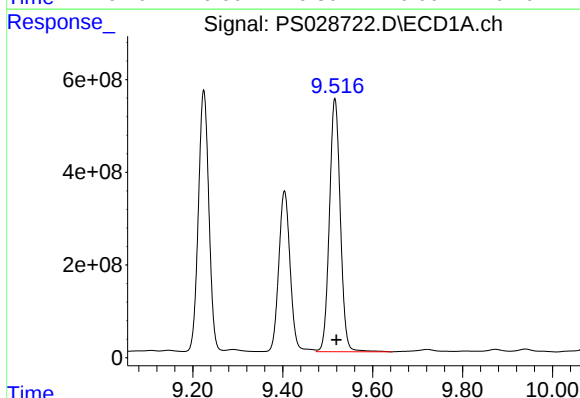
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



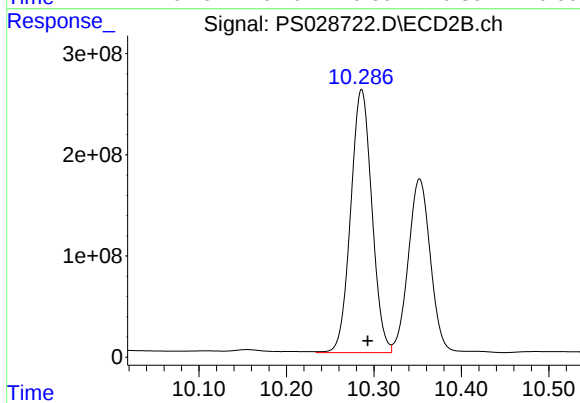
#11 2,4,5-TP (SILVEX)

R.T.: 9.870 min
Delta R.T.: -0.003 min
Response: 8103691835
Conc: 849.22 ng/ml



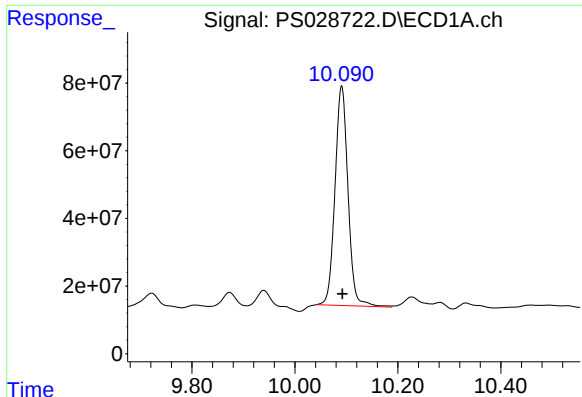
#12 2,4,5-T

R.T.: 9.516 min
Delta R.T.: -0.003 min
Response: 9184651076
Conc: 489.70 ng/ml



#12 2,4,5-T

R.T.: 10.286 min
Delta R.T.: -0.007 min
Response: 4374010780
Conc: 469.80 ng/ml



#13 2,4-DB

R.T.: 10.091 min
Delta R.T.: -0.001 min
Response: 1135281417
Conc: 320.55 ng/ml

Instrument :

ECD_S

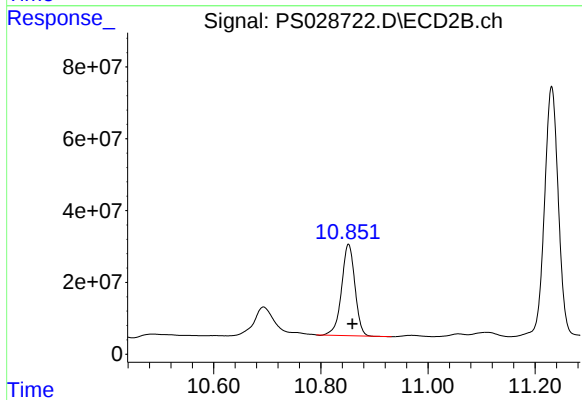
ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MSD

Manual Integrations

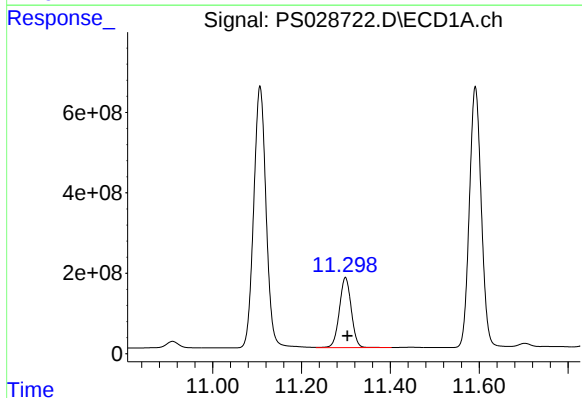
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



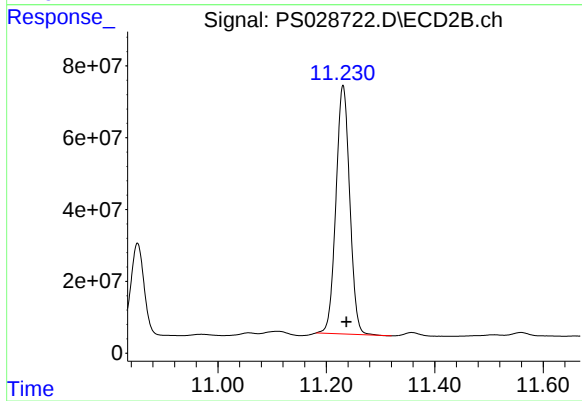
#13 2,4-DB

R.T.: 10.852 min
Delta R.T.: -0.007 min
Response: 439410083
Conc: 383.19 ng/ml



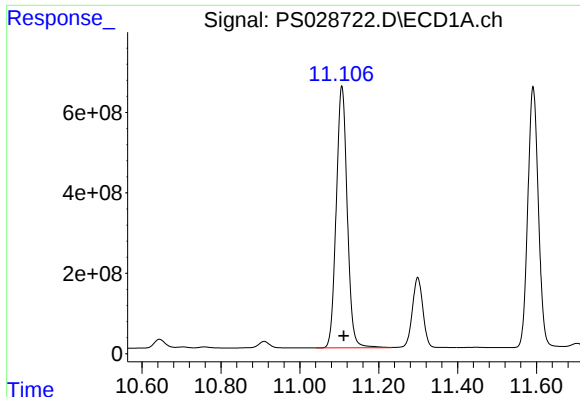
#14 DINOSEB

R.T.: 11.299 min
Delta R.T.: -0.004 min
Response: 3248530968
Conc: 216.19 ng/ml



#14 DINOSEB

R.T.: 11.231 min
Delta R.T.: -0.006 min
Response: 1219584511
Conc: 194.32 ng/ml



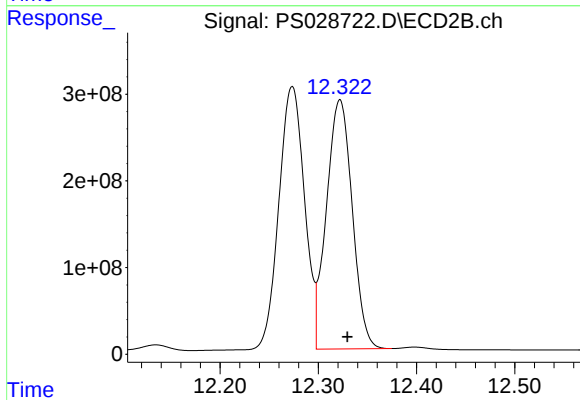
#15 Picloram

R.T.: 11.107 min
Delta R.T.: -0.005 min
Response: 12596447980
Conc: 423.60 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MSD

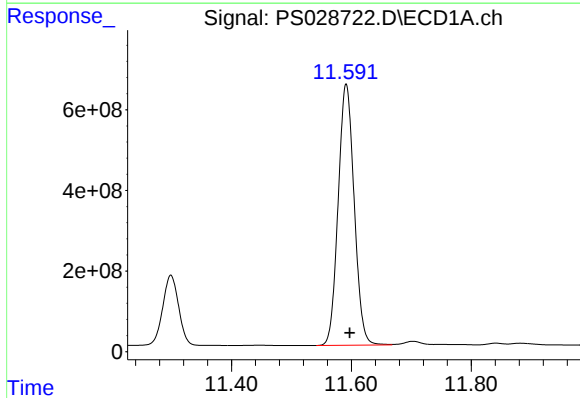
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/09/2024
Supervised By :Ankita Jodhani 12/09/2024



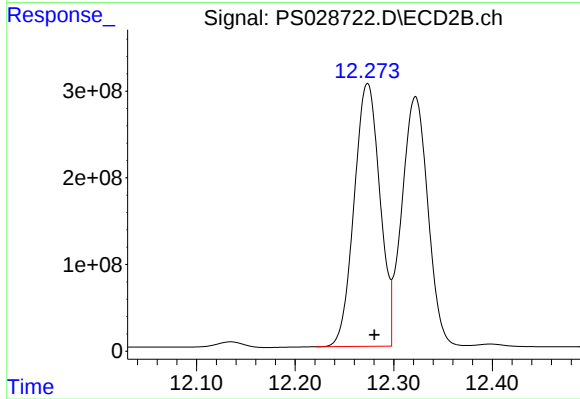
#15 Picloram

R.T.: 12.322 min
Delta R.T.: -0.008 min
Response: 5258849640
Conc: 407.96 ng/ml



#16 DCPA

R.T.: 11.591 min
Delta R.T.: -0.006 min
Response: 11997293396
Conc: 436.34 ng/ml



#16 DCPA

R.T.: 12.273 min
Delta R.T.: -0.007 min
Response: 5511125810
Conc: 496.62 ng/ml

Manual Integration Report

Sequence:	PS112624	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS028632.D	2,4-DCAA	yogesh	11/27/2024 8:45:28 AM	Ankita	11/27/2024 11:11:39	Peak Integrated by Software
HSTDCCC750	PS028655.D	2,4-DCAA	yogesh	11/27/2024 8:45:48 AM	Ankita	11/27/2024 11:11:58	Peak Integrated by Software

Manual Integration Report

Sequence:	PS120624	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028719.D	Dalapon	Abdul	12/9/2024 10:05:44 AM	Ankita	12/9/2024 10:17:23	Peak Integrated by Software
P5117-02MS	PS028721.D	4-Nitrophenol #2	Abdul	12/9/2024 10:05:49 AM	Ankita	12/9/2024 10:17:25	Peak Integrated by Software
P5117-02MS	PS028721.D	Dalapon	Abdul	12/9/2024 10:05:49 AM	Ankita	12/9/2024 10:17:25	Peak Integrated by Software
P5117-02MS	PS028721.D	Dalapon #2	Abdul	12/9/2024 10:05:49 AM	Ankita	12/9/2024 10:17:25	Peak Integrated by Software
P5117-02MSD	PS028722.D	4-Nitrophenol #2	Abdul	12/9/2024 10:05:56 AM	Ankita	12/9/2024 10:17:27	Peak Integrated by Software
P5117-02MSD	PS028722.D	Dalapon	Abdul	12/9/2024 10:05:56 AM	Ankita	12/9/2024 10:17:27	Peak Integrated by Software
P5117-02MSD	PS028722.D	Dalapon #2	Abdul	12/9/2024 10:05:56 AM	Ankita	12/9/2024 10:17:27	Peak Integrated by Software
PB165455BS	PS028724.D	2,4-DCAA	Abdul	12/9/2024 10:06:00 AM	Ankita	12/9/2024 10:17:28	Peak Integrated by Software
HSTDCCC750	PS028727.D	2,4-DCAA	Abdul	12/9/2024 10:06:05 AM	Ankita	12/9/2024 10:17:29	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS112624

Review By	yogesh	Review On	11/27/2024 8:46:05 AM
Supervise By	Ankita	Supervise On	11/27/2024 11:12:35 AM
SubDirectory	PS112624	HP Acquire Method	HP Processing Method PS112624
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	PS028630.D	26 Nov 2024 12:00	AR\AJ	Ok
2	I.BLK	PS028631.D	26 Nov 2024 12:24	AR\AJ	Ok
3	HSTDICC200	PS028632.D	26 Nov 2024 12:48	AR\AJ	Ok,M
4	HSTDICC500	PS028633.D	26 Nov 2024 13:13	AR\AJ	Ok
5	HSTDICC750	PS028634.D	26 Nov 2024 13:37	AR\AJ	Ok
6	HSTDICC1000	PS028635.D	26 Nov 2024 14:01	AR\AJ	Ok
7	HSTDICC1500	PS028636.D	26 Nov 2024 14:25	AR\AJ	Ok
8	HSTDICV750	PS028637.D	26 Nov 2024 14:49	AR\AJ	Ok
9	I.BLK	PS028638.D	26 Nov 2024 15:37	AR\AJ	Ok
10	HSTDCCC750	PS028639.D	26 Nov 2024 16:01	AR\AJ	Ok
11	P4892-03	PS028640.D	26 Nov 2024 17:37	AR\AJ	Not Ok
12	P4892-03RE	PS028641.D	26 Nov 2024 18:01	AR\AJ	Not Ok
13	P4951-01	PS028642.D	26 Nov 2024 18:25	AR\AJ	Ok,M
14	P4985-05	PS028643.D	26 Nov 2024 18:49	AR\AJ	Ok,M
15	PB165273BL	PS028644.D	26 Nov 2024 19:13	AR\AJ	Ok,M
16	PB165273BS	PS028645.D	26 Nov 2024 19:37	AR\AJ	Ok,M
17	PB165159TB	PS028646.D	26 Nov 2024 20:01	AR\AJ	Ok
18	I.BLK	PS028647.D	26 Nov 2024 20:25	AR\AJ	Ok
19	HSTDCCC750	PS028648.D	26 Nov 2024 20:49	AR\AJ	Ok
20	P4961-01	PS028649.D	26 Nov 2024 21:13	AR\AJ	Ok,M
21	P4961-01MS	PS028650.D	26 Nov 2024 21:37	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS112624

Review By	yogesh	Review On	11/27/2024 8:46:05 AM
Supervise By	Ankita	Supervise On	11/27/2024 11:12:35 AM
SubDirectory	PS112624	HP Acquire Method	HP Processing Method PS112624
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		

22	P4961-01MSD	PS028651.D	26 Nov 2024 22:01	AR\AJ	Ok,M
23	P4962-01	PS028652.D	26 Nov 2024 22:25	AR\AJ	Ok,M
24	P4995-02	PS028653.D	26 Nov 2024 22:49	AR\AJ	Ok
25	I.BLK	PS028654.D	26 Nov 2024 23:13	AR\AJ	Ok
26	HSTDCCC750	PS028655.D	26 Nov 2024 23:37	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS120624

Review By	Abdul	Review On	12/9/2024 10:07:35 AM
Supervise By	Ankita	Supervise On	12/9/2024 10:17:35 AM
SubDirectory	PS120624	HP Acquire Method	HP Processing Method PS112624 8151
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	PS028712.D	06 Dec 2024 08:53	AR\AJ	Ok
2	I.BLK	PS028713.D	06 Dec 2024 09:17	AR\AJ	Ok
3	HSTDCCC750	PS028714.D	06 Dec 2024 09:41	AR\AJ	Ok
4	PB165384BS	PS028715.D	06 Dec 2024 10:09	AR\AJ	Ok
5	P5072-05MS	PS028716.D	06 Dec 2024 10:33	AR\AJ	Ok,M
6	P5072-05MSD	PS028717.D	06 Dec 2024 10:57	AR\AJ	Ok,M
7	I.BLK	PS028718.D	06 Dec 2024 11:21	AR\AJ	Ok
8	HSTDCCC750	PS028719.D	06 Dec 2024 12:37	AR\AJ	Ok,M
9	P5117-02	PS028720.D	06 Dec 2024 16:32	AR\AJ	Ok
10	P5117-02MS	PS028721.D	06 Dec 2024 16:57	AR\AJ	Ok,M
11	P5117-02MSD	PS028722.D	06 Dec 2024 17:21	AR\AJ	Ok,M
12	PB165455BL	PS028723.D	06 Dec 2024 17:45	AR\AJ	Ok
13	PB165455BS	PS028724.D	06 Dec 2024 18:09	AR\AJ	Ok,M
14	PB165390TB	PS028725.D	06 Dec 2024 18:32	AR\AJ	Ok
15	I.BLK	PS028726.D	06 Dec 2024 18:56	AR\AJ	Ok
16	HSTDCCC750	PS028727.D	06 Dec 2024 19:20	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS112624

Review By	yogesh	Review On	11/27/2024 8:46:05 AM
Supervise By	Ankita	Supervise On	11/27/2024 11:12:35 AM
SubDirectory	PS112624	HP Acquire Method	HP Processing Method PS112624

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	PS028630.D	26 Nov 2024 12:00		AR\AJ	Ok
2	I.BLK	I.BLK	PS028631.D	26 Nov 2024 12:24		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028632.D	26 Nov 2024 12:48		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS028633.D	26 Nov 2024 13:13		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS028634.D	26 Nov 2024 13:37		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028635.D	26 Nov 2024 14:01		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS028636.D	26 Nov 2024 14:25		AR\AJ	Ok
8	HSTDICV750	ICVPS112624	PS028637.D	26 Nov 2024 14:49		AR\AJ	Ok
9	I.BLK	I.BLK	PS028638.D	26 Nov 2024 15:37		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028639.D	26 Nov 2024 16:01		AR\AJ	Ok
11	P4892-03	WB-310-BOT	PS028640.D	26 Nov 2024 17:37	already analyzed	AR\AJ	Not Ok
12	P4892-03RE	WB-310-BOTRE	PS028641.D	26 Nov 2024 18:01	already analyzed	AR\AJ	Not Ok
13	P4951-01	AU-05-112124	PS028642.D	26 Nov 2024 18:25		AR\AJ	Ok,M
14	P4985-05	MH-740-WC	PS028643.D	26 Nov 2024 18:49		AR\AJ	Ok,M
15	PB165273BL	PB165273BL	PS028644.D	26 Nov 2024 19:13		AR\AJ	Ok,M
16	PB165273BS	PB165273BS	PS028645.D	26 Nov 2024 19:37	Recovery Fail in DICHLORPROP-I and DINOSEB-I	AR\AJ	Ok,M
17	PB165159TB	PB165159TB	PS028646.D	26 Nov 2024 20:01		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS112624

Review By	yogesh	Review On	11/27/2024 8:46:05 AM
Supervise By	Ankita	Supervise On	11/27/2024 11:12:35 AM
SubDirectory	PS112624	HP Acquire Method	HP Processing Method PS112624
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			

18	I.BLK	I.BLK	PS028647.D	26 Nov 2024 20:25		AR\AJ	Ok
19	HSTDCCC750	HSTDCCC750	PS028648.D	26 Nov 2024 20:49		AR\AJ	Ok
20	P4961-01	C0RB8	PS028649.D	26 Nov 2024 21:13	Surrogate Fail in both column confirms with ms msd	AR\AJ	Ok,M
21	P4961-01MS	C0RB8MS	PS028650.D	26 Nov 2024 21:37	surrogate fail	AR\AJ	Ok,M
22	P4961-01MSD	C0RB8MSD	PS028651.D	26 Nov 2024 22:01	surrogate fail	AR\AJ	Ok,M
23	P4962-01	C0NB8	PS028652.D	26 Nov 2024 22:25		AR\AJ	Ok,M
24	P4995-02	001	PS028653.D	26 Nov 2024 22:49		AR\AJ	Ok
25	I.BLK	I.BLK	PS028654.D	26 Nov 2024 23:13		AR\AJ	Ok
26	HSTDCCC750	HSTDCCC750	PS028655.D	26 Nov 2024 23:37		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS120624

Review By	Abdul	Review On	12/9/2024 10:07:35 AM
Supervise By	Ankita	Supervise On	12/9/2024 10:17:35 AM
SubDirectory	PS120624	HP Acquire Method	HP Processing Method PS112624 8151

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	PS028712.D	06 Dec 2024 08:53		AR\AJ	Ok
2	I.BLK	I.BLK	PS028713.D	06 Dec 2024 09:17		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028714.D	06 Dec 2024 09:41	MCPA failing low	AR\AJ	Ok
4	PB165384BS	PB165384BS	PS028715.D	06 Dec 2024 10:09		AR\AJ	Ok
5	P5072-05MS	MH-738MS	PS028716.D	06 Dec 2024 10:33	Some compound recovery fail	AR\AJ	Ok,M
6	P5072-05MSD	MH-738MSD	PS028717.D	06 Dec 2024 10:57	Some compound recovery fail & rpd fail for MCPA	AR\AJ	Ok,M
7	I.BLK	I.BLK	PS028718.D	06 Dec 2024 11:21		AR\AJ	Ok
8	HSTDCCC750	HSTDCCC750	PS028719.D	06 Dec 2024 12:37		AR\AJ	Ok,M
9	P5117-02	TAPIAL2-IDW-SOIL-12	PS028720.D	06 Dec 2024 16:32		AR\AJ	Ok
10	P5117-02MS	TAPIAL2-IDW-SOIL-12	PS028721.D	06 Dec 2024 16:57	Some compound recovery fail	AR\AJ	Ok,M
11	P5117-02MSD	TAPIAL2-IDW-SOIL-12	PS028722.D	06 Dec 2024 17:21	Some compound recovery fail	AR\AJ	Ok,M
12	PB165455BL	PB165455BL	PS028723.D	06 Dec 2024 17:45		AR\AJ	Ok
13	PB165455BS	PB165455BS	PS028724.D	06 Dec 2024 18:09		AR\AJ	Ok,M
14	PB165390TB	PB165390TB	PS028725.D	06 Dec 2024 18:32		AR\AJ	Ok
15	I.BLK	I.BLK	PS028726.D	06 Dec 2024 18:56		AR\AJ	Ok
16	HSTDCCC750	HSTDCCC750	PS028727.D	06 Dec 2024 19:20		AR\AJ	Ok,M

M : Manual Integration

SOP ID : M1311-TCLP-15
 SDG No : N/A
 Weigh By : JP
 Balance ID : WC SC-7
 pH Meter ID : WC PH METER-1
 Extraction By : JP
 Filter By : JP
 Pipette ID : WC
 Tumbler ID : T-1 / T-2
 TCLP Filter ID : 114771

Start Prep Date : 12/05/2024 Time : 16:40
 End Prep Date : 12/06/2024 Time : 09:25
 Combination Ratio : 20
 ZHE Cleaning Batch : N/A
 Initial Room Temperature: 23 °C
 Final Room Temperature: 22 °C
 TCLP Technician Signature : *[Signature]*
 Supervisor By : 12

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
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 U	Lot Number
TCLP-FLUID-1	N/A	WP110801
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP83122

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. TUMBLER T-1 checked, 30 rpm. Particle size reduction is not required. p5100-04 and p5103-02 is oil samples so no fluid determination. P5136-02 IS USED FOR MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/06/24 10:30	<i>[Signature]</i> 1st Room	<i>[Signature]</i> 1st
	Preparation Group	Analysis Group <i>[Signature]</i> 1st day

TCLP EXTRACTION LOGPAGE

PB165390

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P5095-04	MH-764	01	100.02	2000	N/A	N/A	N/A	7.6	1.5	T-1
P5096-04	MH-B	02	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
P5096-08	MH-A	03	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
P5100-04	3167	N/A	N/A	N/A	N/A	N/A	N/A	8.6	1.0	N/A
P5103-02	423	N/A	N/A	N/A	N/A	N/A	N/A	8.6	1.0	N/A
P5110-01	ELIZ-COMP-1	04	100.02	2000	N/A	N/A	N/A	5.0	1.5	T-1
P5110-02	ELIZ-COMP-2	05	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-1
P5112-02	10TH-ST-SOIL	06	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-1
P5117-02	TAPIAL2-IDW-SOIL-120424-00-T2	07	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-1
P5133-02	MOO-24-00374	08	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
P5136-02	COMP-1	09	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-1
PB165390TB	LEB390	10	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P5095-04	MH-764	N/A	N/A	N/A	N/A	100	N/A
P5096-04	MH-B	N/A	N/A	N/A	N/A	100	N/A
P5096-08	MH-A	N/A	N/A	N/A	N/A	100	N/A
P5100-04	3167	N/A	N/A	N/A	N/A	<0.5	N/A
P5103-02	423	N/A	N/A	N/A	N/A	<0.5	N/A
P5110-01	ELIZ-COMP-1	N/A	N/A	N/A	N/A	100	N/A
P5110-02	ELIZ-COMP-2	N/A	N/A	N/A	N/A	100	N/A
P5112-02	10TH-ST-SOIL	N/A	N/A	N/A	N/A	100	N/A
P5117-02	TAPIAL2-IDW-SOIL-120424-00-T2	N/A	N/A	N/A	N/A	100	N/A
P5133-02	MOO-24-00374	N/A	N/A	N/A	N/A	100	N/A
P5136-02	COMP-1	N/A	N/A	N/A	N/A	100	N/A
PB165390TB	LEB390	N/A	N/A	N/A	N/A	N/A	N/A

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P5095-04	MH-764	5.02	96.5	9.5	4.0	#1	4.94
P5096-04	MH-B	5.03	96.5	8.6	3.5	#1	4.94
P5096-08	MH-A	5.02	96.5	8.6	3.5	#1	4.94
P5100-04	3167	N/A	N/A	N/A	N/A	N/A	N/A
P5103-02	423	N/A	N/A	N/A	N/A	N/A	N/A
P5110-01	ELIZ-COMP-1	5.02	96.5	6.8	2.5	#1	4.94
P5110-02	ELIZ-COMP-2	5.03	96.5	6.4	2.5	#1	4.94
P5112-02	10TH-ST-SOIL	5.02	96.5	8.4	3.0	#1	4.94
P5117-02	TAPIAL2-IDW-SOIL-120424-00-T2	5.01	96.5	6.4	2.5	#1	4.94
P5133-02	MOO-24-00374	5.02	96.5	6.0	2.5	#1	4.94
P5136-02	COMP-1	5.03	96.5	6.2	2.5	#1	4.94
PB165390TB	LEB390	N/A	N/A	N/A	N/A	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP P5096

WorkList ID : 185994

Department : TCLP Extraction

Date : 12-05-2024 09:25:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5095-04	MH-764	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L11	12/04/2024	1311
P5096-04	MH-B	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	12/04/2024	1311
P5096-08	MH-A	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	12/04/2024	1311
P5100-04	3167	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L61	12/04/2024	1311
P5103-02	423	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	12/04/2024	1311
P5110-01	ELIZ-COMP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	12/04/2024	1311
P5110-02	ELIZ-COMP-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	12/04/2024	1311
P5112-02	10TH-ST-SOIL	Solid	TCLP Extraction	Cool 4 deg C	TULL02	L51	12/05/2024	1311
P5117-02	TAPIAL2-IDW-SOIL-120424-00	Solid	TCLP Extraction	Cool 4 deg C	WEST04	L41	12/05/2024	1311
P5133-02	MOO-24-00374	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L61	12/05/2024	1311
P5136-02	COMP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L61	12/05/2024	1311

Date/Time 12/05/24 15:40
 Raw Sample Received by: JH GORCI
 Raw Sample Relinquished by: RJ C ELL-1ab

Date/Time 12/05/24 17:10
 Raw Sample Received by: RJ C ELL-1ab
 Raw Sample Relinquished by: JH GORCI

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix: Water

Weigh By: RJ

Balance check: N/A

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: 4,7

Extraction Start Date: 12/06/2024

Extraction Start Time: 10:45

Extraction End Date: 12/06/2024

Extraction End Time: 16:15

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	PP23930
Surrogate	1.0ML	5000 PPB	PP23949
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
Ether	N/A	E3370
Acidified Na2SO4	N/A	EP2503
NAOH 6N	N/A	EP2553
ISO OCTANE	N/A	E3554
NACL	N/A	M4459
1:3 SULPHURIC ACID	N/A	EP2528
Diazomethane	N/A	EP2529
Hexane	N/A	E3826
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted with 6N NaOH > 12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4 < 2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS721.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

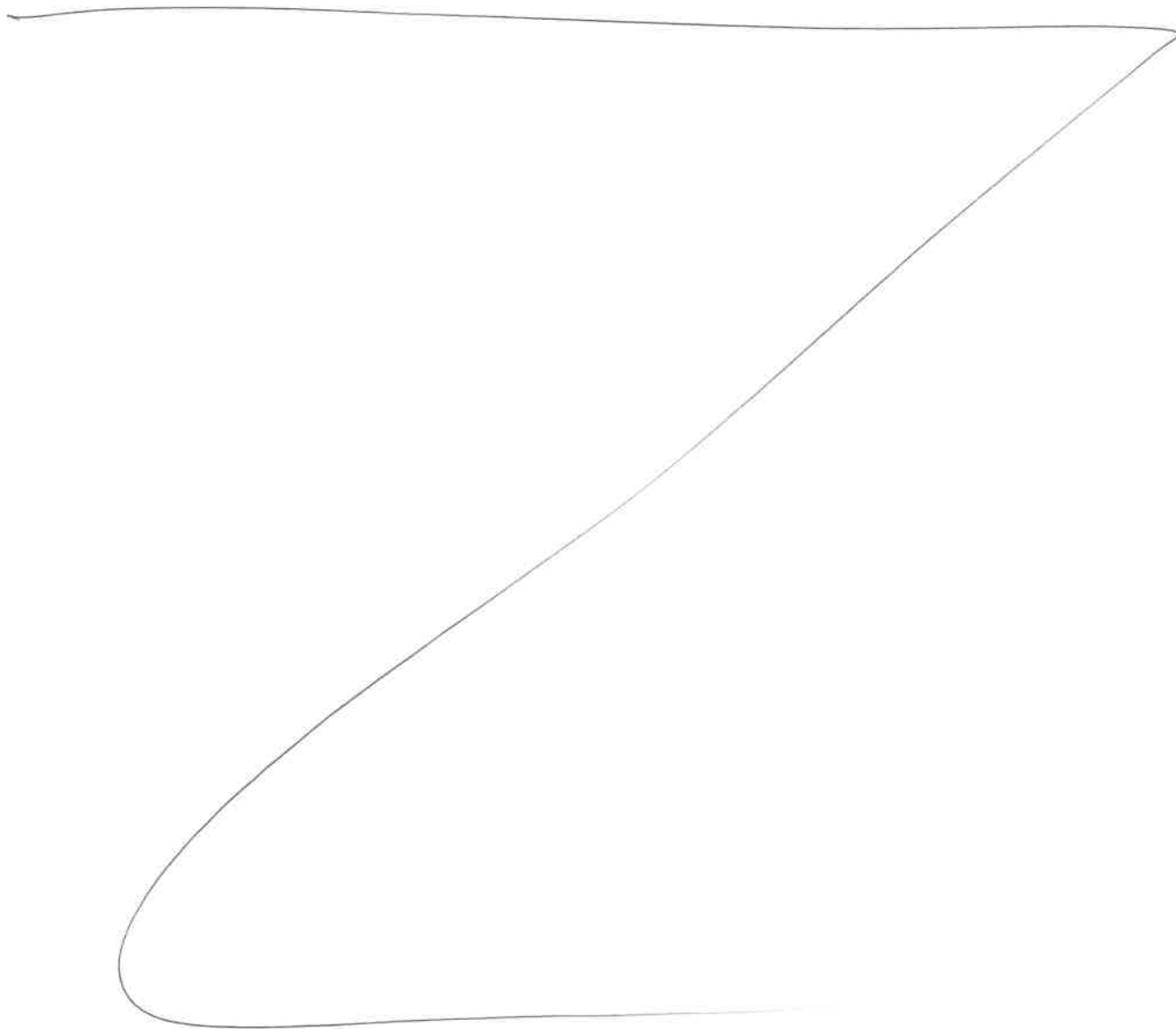
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/6/24	RP (Ext. Lab)	RP (Ext. Lab)
16:20	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 12/06/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165390TB	PB165390TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			SEP-01
PB165455BL	HBLK455	TCLP Herbicide	1000	6	RUPESH	ritesh	10			2
PB165455BS	HLCS455	TCLP Herbicide	1000	6	RUPESH	ritesh	10			3
P5117-02	TAPIAL2-IDW-SOIL-1204 24-00-T2	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		4
P5117-02MS	TAPIAL2-IDW-SOIL-1204 24-00-T2MS	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		5
P5117-02MS D	TAPIAL2-IDW-SOIL-1204 24-00-T2MSD	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		6



* Extracts relinquished on the same date as received.

Handwritten signature
12/6/24

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P5095-04	MH-764	01	100.02	2000	N/A	N/A	N/A	7.6	1.5	T-1
P5096-04	MH-B	02	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
P5096-08	MH-A	03	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
P5100-04	3167	N/A	N/A	N/A	N/A	N/A	N/A	8.6	1.0	N/A
P5103-02	423	N/A	N/A	N/A	N/A	N/A	N/A	8.6	1.0	N/A
P5110-01	ELIZ-COMP-1	04	100.02	2000	N/A	N/A	N/A	5.0	1.5	T-1
P5110-02	ELIZ-COMP-2	05	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-1
P5112-02	10TH-ST-SOIL	06	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-1
P5117-02	TAPIAL2-IDW-SOIL-120424-00-T2	07	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-1
P5133-02	MOO-24-00374	08	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
P5136-02	COMP-1	09	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-1
PB165390TB	LEB390	10	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

1210612025
10130

Prep Standard - Chemical Standard Summary

Order ID : P5117
Test : TCLP Herbicide
Prepbatch ID : PB165455,
Sequence ID/Qc Batch ID: PS120624,

Standard ID :
EP2503,EP2553,PP23930,PP23949,PP24061,PP24062,PP24064,PP24065,PP24066,PP24067,PP24068,PP24069,PP24070,

Chemical ID :
E3370,E3551,E3554,E3657,E3818,E3826,E3827,M4459,M5037,P10549,P11180,P11181,P12619,P12629,P12686,P12708,P12709,P12784,P12785,P13502,P13503,P13504,P13505,P13517,W3112,

Extractions 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>
601	Acidified Sodium Sulphate 2	EP2503	07/01/2024	12/15/2024	Rajesh Parikh	Extraction_SC ALE_2	None	RUPESHKUMAR SHAH 07/01/2024

FROM 100.00000ml of E3370 + 150.00000ml of M5037 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram
(EX-SC-2)

<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>
3884	6 N NAOH	EP2553	10/21/2024	04/21/2025	Rajesh Parikh	Extraction_SC ALE_2	None	RUPESHKUMAR SHAH 10/21/2024

FROM 1000.00000ml of W3112 + 240.00000gram of E3657 = Final Quantity: 1000.000 ml
(EX-SC-2)

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)	PP23930	10/30/2024	04/23/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/30/2024

FROM 0.50000ml of P13517 + 1.00000ml of P12784 + 1.00000ml of P12785 + 47.50000ml of E3818 = Final Quantity: 50.000 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)	PP23949	11/11/2024	05/08/2025	Abdul Mirza	None	None	Ankita Jodhani
								11/13/2024

FROM 1.25000ml of P13502 + 1.25000ml of P13503 + 1.25000ml of P13504 + 1.25000ml of P13505 + 195.00000ml of E3827 = 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>
1321	2/200 PPM Herb Mega Mix	PP24061	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
FROM 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
FROM 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
FROM 0.25000ml of E3826 + 0.75000ml of PP24069 = Final Quantity: 1.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9244-03 / Ether, Anhydrous, Purified (cs/4x4L)	0000288039	01/17/2025	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	01/03/2025	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-9335-02 / Iso-Octane (2,2,4-Trimethypentane) Ultra Resi-Analyzed Grade	63160	01/05/2025	08/09/2023 / Rajesh	08/09/2023 / Rajesh	E3554

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

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)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

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

CHEMICAL RECEIPT LOG BOOK

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)	24H1462005	05/08/2025	11/08/2024 / Rajesh	11/07/2024 / Rajesh	E3827

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

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)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

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 #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12784

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	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12784

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	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12785

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	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12785

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	05/11/2025	11/11/2024 / Abdul	08/16/2024 / yogesh	P13502

CHEMICAL RECEIPT LOG BOOK

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	05/11/2025	11/11/2024 / Abdul	08/16/2024 / yogesh	P13503

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	05/11/2025	11/11/2024 / Abdul	08/16/2024 / yogesh	P13504

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	05/11/2025	11/11/2024 / Abdul	08/16/2024 / yogesh	P13505

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	0006750243	04/30/2025	10/30/2024 / Abdul	09/03/2024 / Abdul	P13517

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	0006750243	04/30/2025	10/30/2024 / Abdul	09/03/2024 / Abdul	P13517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

avantor™



From M4452 to M4459

Received on : 10/30/2019

Received by : AK

Material No.: 3624-05

Batch No.: 0000237721

Manufactured Date: 2019/04/15

Retest Date: 2026/04/13

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

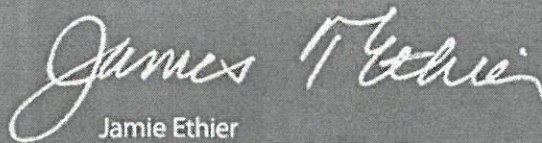
Test	Specification	Result
Assay (NaCl) (by Ag titrn)	$\geq 99.0 \%$	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	$\leq 0.005 \%$	< 0.001
Iodide (I)	$\leq 0.002 \%$	< 0.002
Bromide (Br)	$\leq 0.01 \%$	< 0.01
Chlorate and Nitrate (as NO_3)	$\leq 0.003 \%$	< 0.001
ACS - Phosphate (PO_4)	$\leq 5 \text{ ppm}$	< 5
Sulfate (SO_4)	$\leq 0.004 \%$	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	$\leq 5 \text{ ppm}$	< 5
Iron (Fe)	$\leq 2 \text{ ppm}$	< 2
Calcium (Ca)	$\leq 0.002 \%$	< 0.001
Magnesium (Mg)	$\leq 0.001 \%$	< 0.001
Potassium (K)	$\leq 0.005 \%$	0.002

For Laboratory, Research or Manufacturing Use

Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC


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,

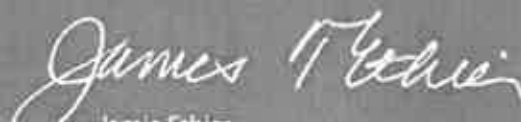
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 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.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
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

Certificate of Analysis



Date of Release: 6/9/2023
Name: 2,2,4-Trimethylpentane [Isooctane]
OmniSolv®
Item No: TX1389 all size codes
Lot / Batch No: 63160
Country of Origin: Germany

Characteristic	Requirement		Results	Units
	Min.	Max.		
Assay (GC)	99.5		> 99.99	%
Capillary ECD responsive substances (as PCNB)		5	0.24	ng/L
Color (APHA)		10	< 10	
Evaporation residue		1	< 0.5	ppm
Filtered through 0.2 µm filter			Passes test	
Fluorescence (as quinine base)		250	71	ppt
Form			Clear liquid	
Infrared Spectrum			Conforms	
Refractive index (at 20°C)			1.3915	
UV Abs. at 200 nm		1.00	0.137	AU
UV Abs. at 220 nm		0.05	0.024	AU
UV Abs. at 230 nm		0.02	0.003	AU
UV Abs. at 250 nm		0.005	0.003	AU
UV Abs. at 270 nm		0.005	0.002	AU
UV Abs. at 300 nm		0.005	0.004	AU
UV Cut-off		200	191.1	nm
Water (H ₂ O)		0.01	0.001	%

Michael Hutchinson,

Quality Control Manager

This document has been produced electronically and is valid without a signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany
EMD Millipore Corporation
400 Summit Drive,
Burlington, MA 01803
U.S.A.

Recd by RP on 8/9/23

E3554



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

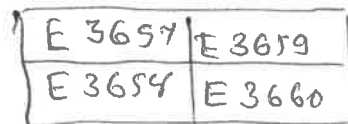
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantors



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 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 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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 10/9/24

E 3818

J. Croak

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

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)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 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)	≤ 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

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 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 %	0.2 %
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

E 3827

Recd. by RS on ~~11/8/24~~ 11/7/24
RS
11/7

Jamie Croak
Director Quality Operations, Bioscience Production

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantor™



Material No.: 9673-33

Batch No.: 0000250349

Manufactured Date: 2019/12/17

Retest Date: 2024/12/15

Revision No: 1

MS037-38-39-40
no

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO ₂)	<= 2 ppm	< 2
Ammonium (NH ₄)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO ₃)	<= 0.2 ppm	< 0.1
Phosphate (PO ₄)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

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 - Iron (Fe)	<= 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
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

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

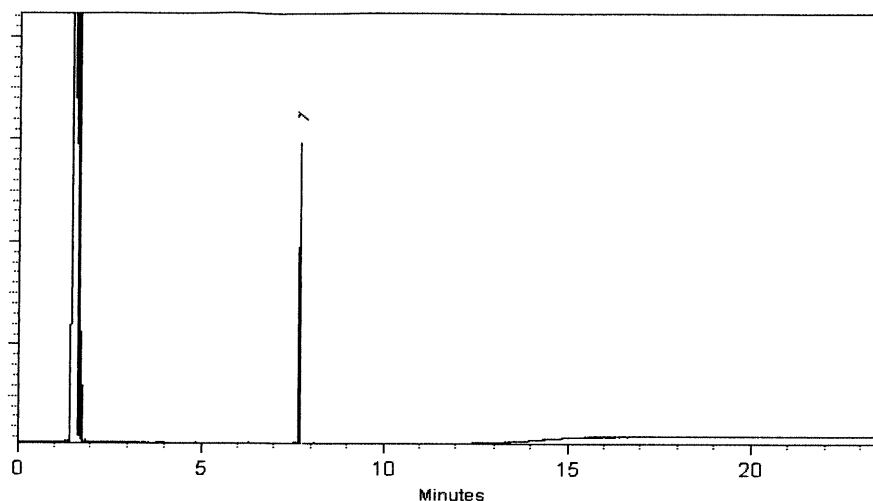
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

P 11177
To
P 11186
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 CAS # 55954-23-9 (Lot CSC42194-01) Purity 99%	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric +/- 6.8182 µg/mL Unstressed +/- 6.8182 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P11177
↓
P11186
AR
01/02/21

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

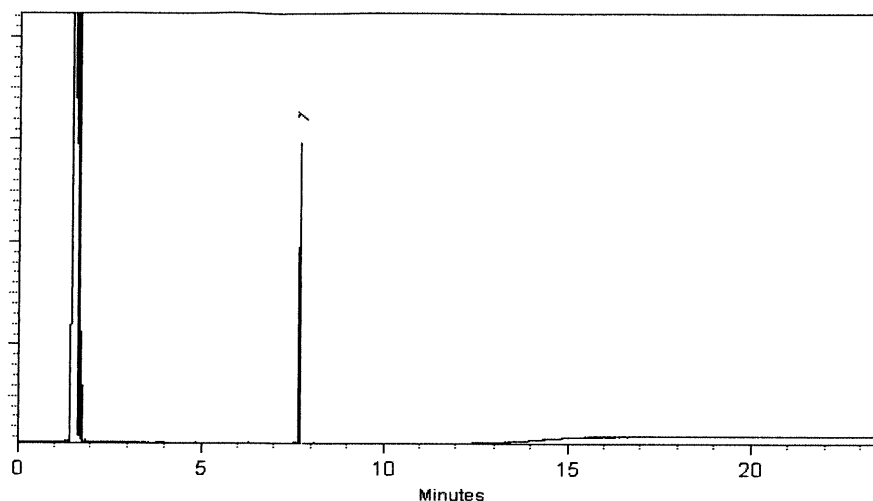
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

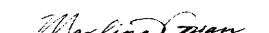
Det. Type:
FID



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

P 11177
To
P 11186
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

www.restek.com

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
✓ *Paul* = 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	200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 2905-67-1 (Lot 3903900)		+/-	6.7507	µg/mL	Unstressed
	Purity 99%		+/-	6.7507	µg/mL	Stressed
2	4-Nitroanisole	200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 100-17-4 (Lot 24765/7)		+/-	6.7507	µg/mL	Unstressed
	Purity 99%		+/-	6.7507	µg/mL	Stressed
3	Pentachloroanisole	200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1825-21-4 (Lot 7921100)		+/-	6.7507	µg/mL	Unstressed
	Purity 99%		+/-	6.7507	µg/mL	Stressed
4	Chloramben methyl ester	199.9 µg/mL	+/-	1.4176	µg/mL	Gravimetric
	CAS # 7286-84-2 (Lot 6487100)		+/-	6.7480	µg/mL	Unstressed
	Purity 98%		+/-	6.7480	µg/mL	Stressed
5	Bentazon methyl ester	200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 61592-45-8 (Lot 817100)		+/-	6.7507	µg/mL	Unstressed
	Purity 99%		+/-	6.7507	µg/mL	Stressed
6	Picloram methyl ester	201.9 µg/mL	+/-	1.4315	µg/mL	Gravimetric
	CAS # 14143-55-6 (Lot 386-21B)		+/-	6.8141	µg/mL	Unstressed
	Purity 98%		+/-	6.8141	µg/mL	Stressed
7	DCPA methyl ester (Chlorthal-dimethyl)	200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1861-32-1 (Lot 8008700)		+/-	6.7507	µg/mL	Unstressed
	Purity 99%		+/-	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)

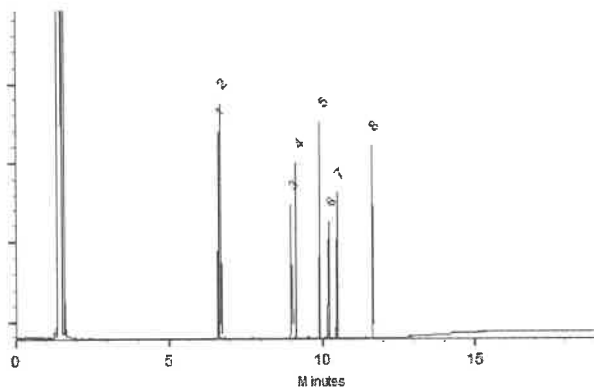
Carrier Gas:
 hydrogen-constant pressure 10 psi.

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:

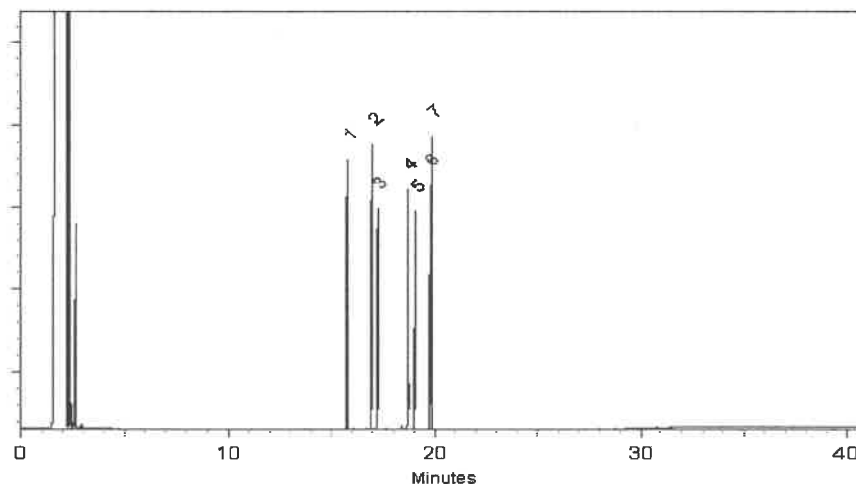
FID

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
Penelope Riglin - Operations Tech I

Date Mixed: 09-Dec-2022

Balance Serial # 1128360905

Jennifer Pollino
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
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. : 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	MCP (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:

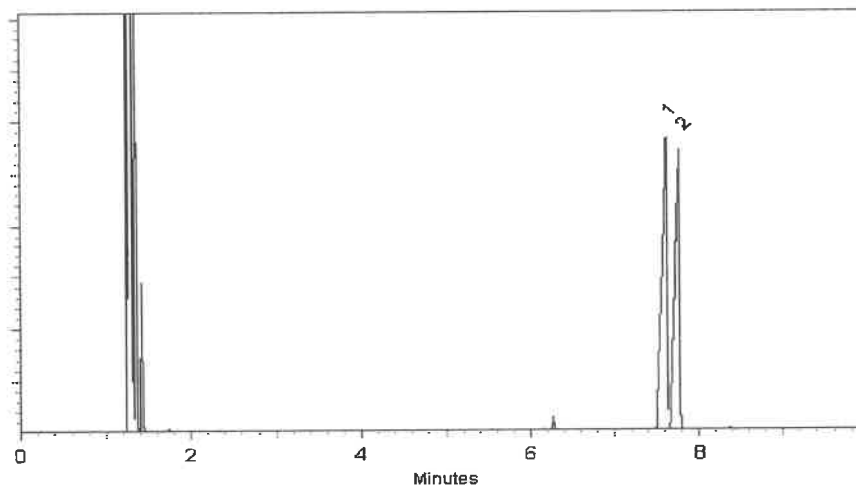
FID

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


Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 12-Jul-2023

Balance Serial # B442140311

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.

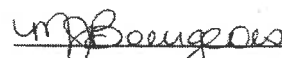
Expiration of Certification:

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.

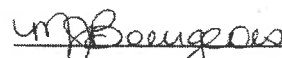
Expiration of Certification:

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

P12766
 ↓
 P12785
 9.11.23
 (20)

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-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	100.1	± 0.5 µg/mL	050594-66-6	NT02057
bentazon	100.1	± 0.5 µg/mL	025057-89-0	RM20289
chloramben	100.4	± 0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.1	± 0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4	± 0.5 µg/mL	000075-99-0	RM21030
2,4-DB	100.1	± 0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.3	± 0.5 µg/mL	002136-79-0	RM13887
dicamba	100.2	± 0.5 µg/mL	001918-00-9	RM20089
3,5-dichlorobenzoic acid	100.0	± 0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.0	± 0.5 µg/mL	000120-36-5	RM20896
dinoseb	100.0	± 0.5 µg/mL	000088-85-7	RM20667
MCPA	10004	± 50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10037	± 50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.1	± 0.5 µg/mL	000100-02-7	RM03752
pentachlorophenol	100.1	± 0.5 µg/mL	000087-86-5	RM02474
picloram	100.4	± 0.5 µg/mL	001918-02-1	RM20442
silvex	100.1	± 0.5 µg/mL	000093-72-1	RM20208
2,4,5-T	100.4	± 0.5 µg/mL	000093-76-5	NT01808

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

P12766 / (20)
↓
P12785 /
✓
9/11/2023



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

P12766
 ↓
 P12785
 9.11.23
 (20)

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-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	100.1	± 0.5 µg/mL	050594-66-6	NT02057
bentazon	100.1	± 0.5 µg/mL	025057-89-0	RM20289
chloramben	100.4	± 0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.1	± 0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4	± 0.5 µg/mL	000075-99-0	RM21030
2,4-DB	100.1	± 0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.3	± 0.5 µg/mL	002136-79-0	RM13887
dicamba	100.2	± 0.5 µg/mL	001918-00-9	RM20089
3,5-dichlorobenzoic acid	100.0	± 0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.0	± 0.5 µg/mL	000120-36-5	RM20896
dinoseb	100.0	± 0.5 µg/mL	000088-85-7	RM20667
MCPA	10004	± 50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10037	± 50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.1	± 0.5 µg/mL	000100-02-7	RM03752
pentachlorophenol	100.1	± 0.5 µg/mL	000087-86-5	RM02474
picloram	100.4	± 0.5 µg/mL	001918-02-1	RM20442
silvex	100.1	± 0.5 µg/mL	000093-72-1	RM20208
2,4,5-T	100.4	± 0.5 µg/mL	000093-76-5	NT01808

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

P12766 / (20)
↓
P12785 /
✓
9/11/2023



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 } 08/15/26

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.

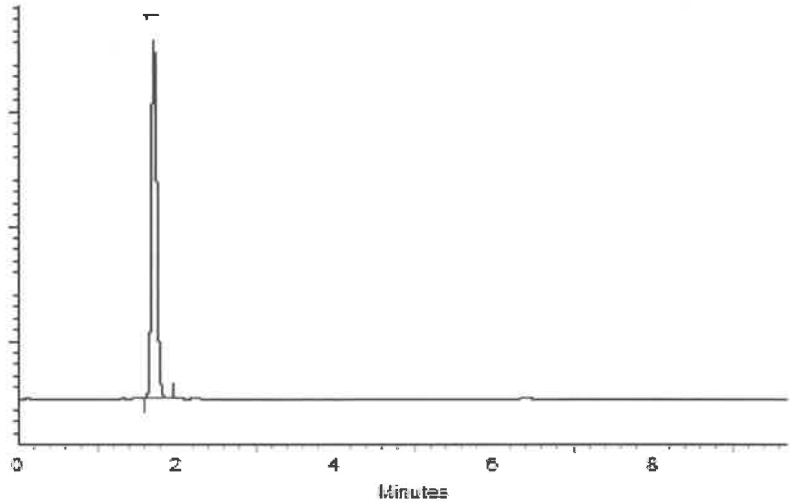
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

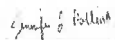


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19



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 } 08/15/26

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.

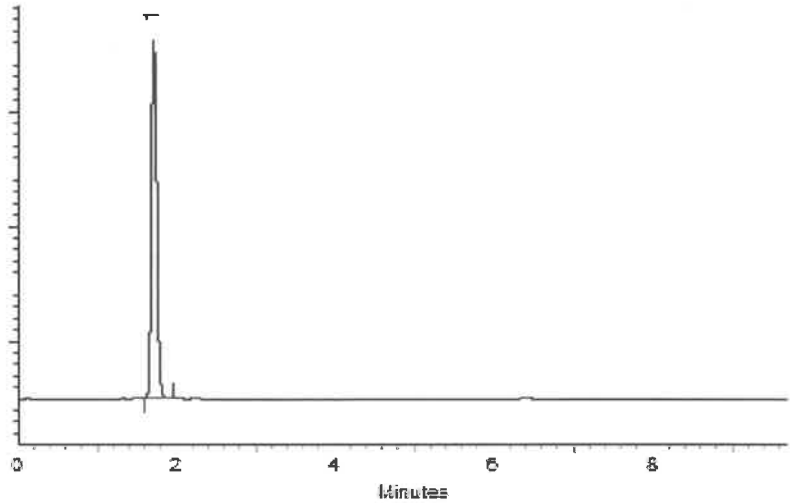
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

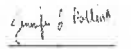


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19



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 } 08/15/26

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.

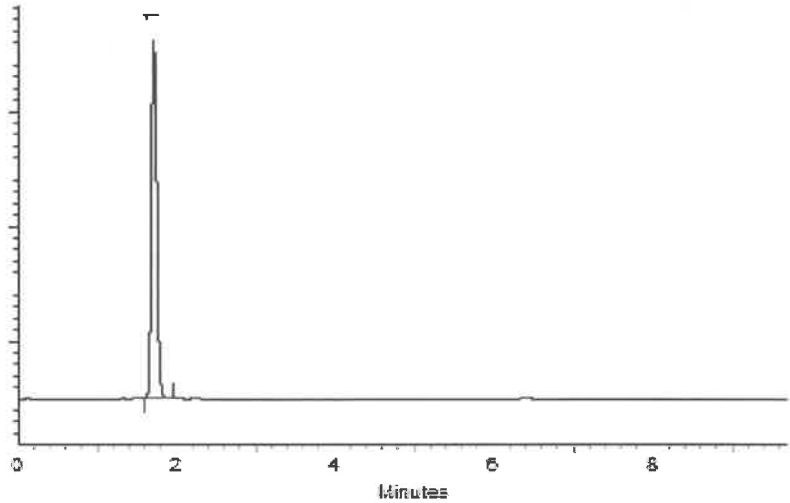
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

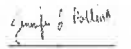


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19



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 } 08/15/26

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.

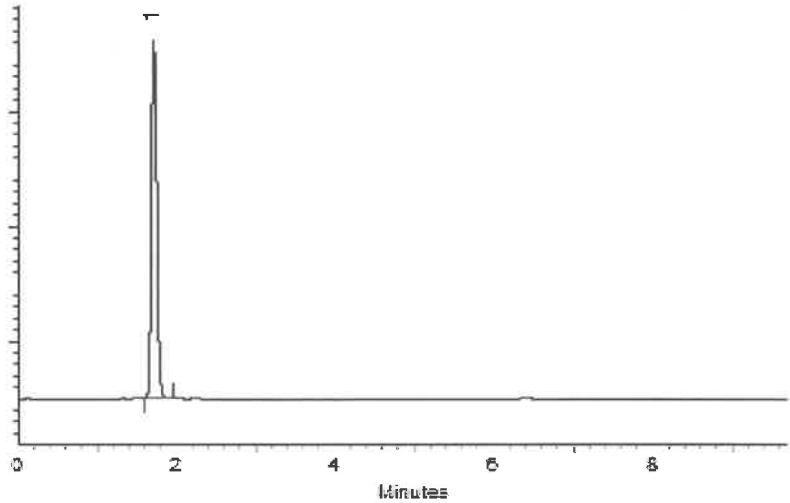
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

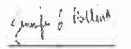


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-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	100.1 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.1 ±	0.5 µg/mL	025057-89-0	RM20289
chloramben	100.4 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.1 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM21030
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.3 ±	0.5 µg/mL	002136-79-0	RM13887
dicamba	100.2 ±	0.5 µg/mL	001918-00-9	RM20089
3,5-dichlorobenzoic acid	100.0 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.0 ±	0.5 µg/mL	000120-36-5	RM20896
dinoseb	100.0 ±	0.5 µg/mL	000088-85-7	RM20667
MCPA	10004 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10037 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.1 ±	0.5 µg/mL	000100-02-7	RM03752
pentachlorophenol	100.1 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.1 ±	0.5 µg/mL	000093-72-1	RM20208
2,4,5-T	100.4 ±	0.5 µg/mL	000093-76-5	NT01808

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.

P13517
P13518 } ②
✓ *RAUF*
9/4/2024



SHIPPING DOCUMENTS

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

P5117



Weston COC ID
Weston_20241204

Chain of Custody Record/Lab Work Request

Page 1 of 1

Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate property preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

Project Name:	Fort Meade RI	Project POC:	Nathan Fretz
PO Number	0111169	Phone:	484-524-5665
W.O. #:		POC e-mail:	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	Lab POC:	Jordan Hedvat
TAT (days):	21	Lab Phone:	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Analyses Requested:	pH by EPA 8045D	TAL Metals by EPA 6020B/7471B	TOC by 9060A	TCLP VOCs by EPA 8260D (1311)	TCLP SVOCs by EPA 8270E (1311)	TCLP Metals by EPA 6010D/7470A	TCLP Pesticides by EPA 8081B	TCLP Herbicides by EPA 8151A	Total Sulfide by EPA 9034	Total Cyanide by EPA 9012E	PCB by EPA 8082A	Ignitability by EPA 1030
	Container Type:	Glass	Glass	Glass	Encore	Glass	Glass	Glass	Glass	Glass	Glass	Glass
Container Size:	8 oz	8 oz	8 oz	25g	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz
Preservative:	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6

Matrix Codes
SB - Soil
SE - Sediment
SO - Solid
SL - Sludge
GW - Groundwater
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected	Special Instructions/Comments											
1	TAPIAL3-SB04I-10-120324-00-T1	g	SB	12	no	12/3/2024	14:00	X	X	X									
2	TAPIAL2-IDW-Soil-120424-00-T2	g	DS	7	no	12/4/2024	13:00	X			X	X	X	X	X	X	X	X	Make expedited 7 day TAT
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Shipping Airbill Number(s):		7704 9457 4944 / 7704 9457 4958		2.3°C		Cooler Number:		1 of 21	
Relinquished By	Date	Time	Received By	Date	Time	Additional Comments			
1.) Sue Klinefelter	12/4/24	1600	[Signature]	12-5-24	1010	QSM 6.0 Compliant			
2.)						Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD			
3.)									

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112624\
 Data File : PS028632.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Nov 2024 12:48
 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: Nov 26 14:01:34 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 13:56:20 2024
 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

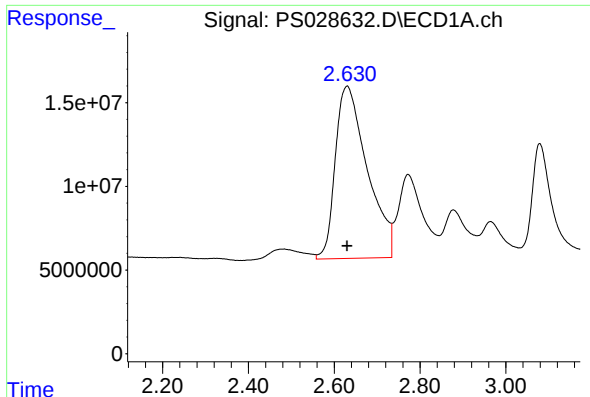
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.226	7.725	694.1E6	282.8E6	243.720	206.925
Target Compounds							
1) T	Dalapon	2.630	2.687	531.5E6	407.6E6	183.455	185.641
2) T	3,5-DICHL...	6.399	6.681	800.4E6	379.1E6	200.243	190.612
3) T	4-Nitroph...	7.025	7.252	336.7E6	176.5E6	191.472	190.143
5) T	DICAMBA	7.412	7.923	2313.7E6	1110.1E6	195.684	182.160
6) T	MCPD	7.591	8.022	118.7E6	76224788	16.962	17.997
7) T	MCPA	7.740	8.265	186.0E6	120.6E6	18.166	19.223
8) T	DICHLORPROP	8.120	8.639	669.8E6	311.0E6	205.162	192.771
9) T	2,4-D	8.351	8.969	722.5E6	335.1E6	203.914	194.718
10) T	Pentachlo...	8.648	9.495	9682.2E6	4480.0E6	201.091	191.001
11) T	2,4,5-TP ...	9.227	9.873	3851.6E6	1833.5E6	201.635	190.020
12) T	2,4,5-T	9.519	10.293	3956.2E6	1799.0E6	201.698	190.769
13) T	2,4-DB	10.094	10.859	728.6E6	220.6E6	199.916	192.399
14) T	DINOSEB	11.303	11.238	3064.6E6	1182.6E6	197.062	187.415
15) T	Picloram	11.112	12.331	5805.4E6	2191.0E6	192.141	174.833
16) T	DCPA	11.596	12.281	5832.7E6	2127.2E6	202.702	190.123

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

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

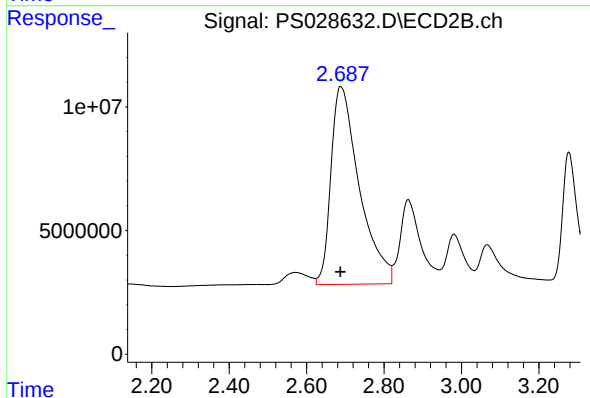
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19



#1 Dalapon

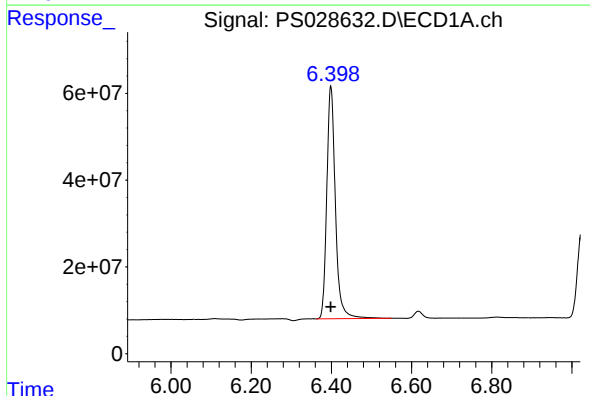
R.T.: 2.630 min
Delta R.T.: 0.000 min
Response: 531505918
Conc: 183.45 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



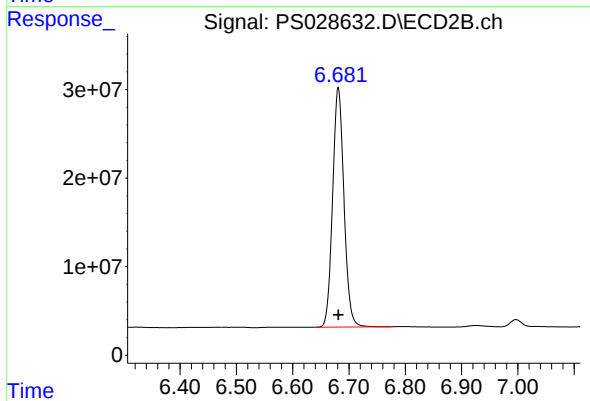
#1 Dalapon

R.T.: 2.687 min
Delta R.T.: 0.000 min
Response: 407591396
Conc: 185.64 ng/ml



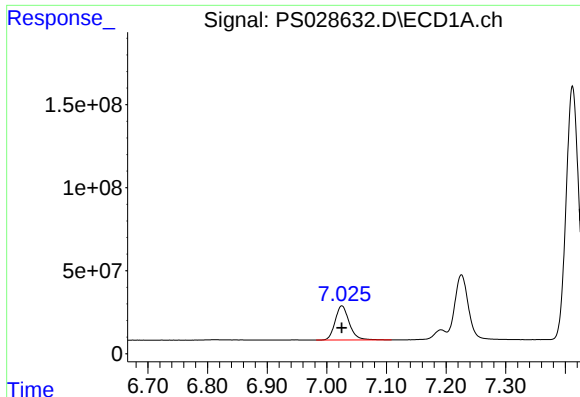
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.399 min
Delta R.T.: 0.000 min
Response: 800383739
Conc: 200.24 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

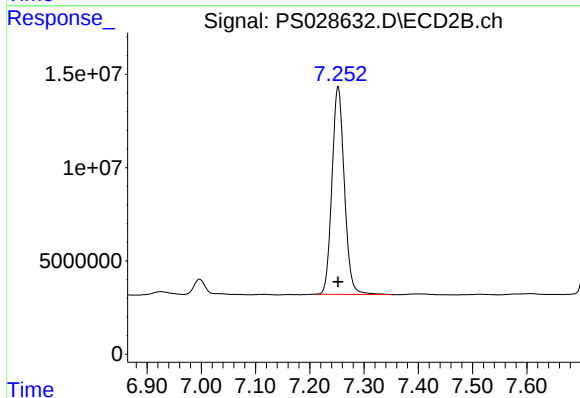
R.T.: 6.681 min
Delta R.T.: 0.000 min
Response: 379088878
Conc: 190.61 ng/ml



#3 4-Nitrophenol

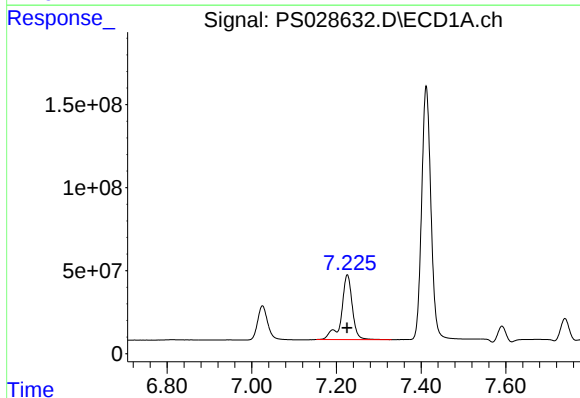
R.T.: 7.025 min
Delta R.T.: 0.000 min
Response: 336669325
Conc: 191.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



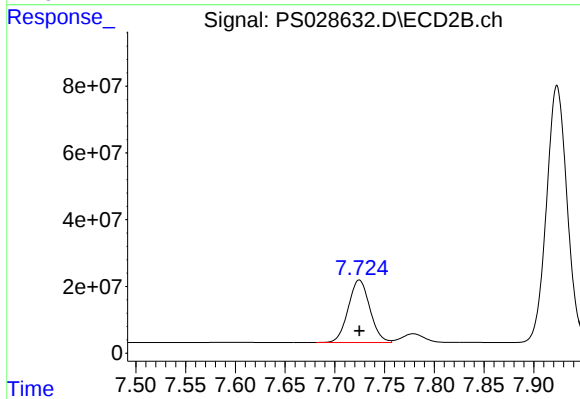
#3 4-Nitrophenol

R.T.: 7.252 min
Delta R.T.: 0.000 min
Response: 176471068
Conc: 190.14 ng/ml



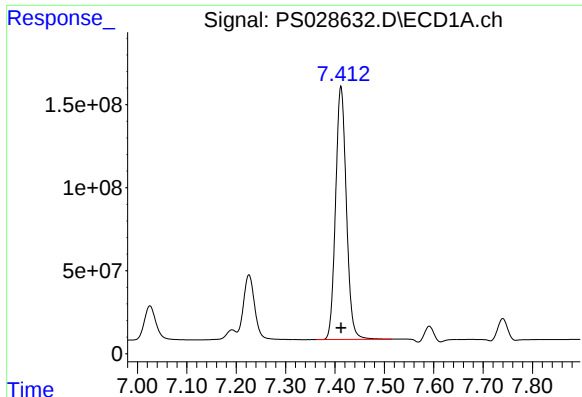
#4 2,4-DCAA

R.T.: 7.226 min
Delta R.T.: 0.000 min
Response: 694092662
Conc: 243.72 ng/ml



#4 2,4-DCAA

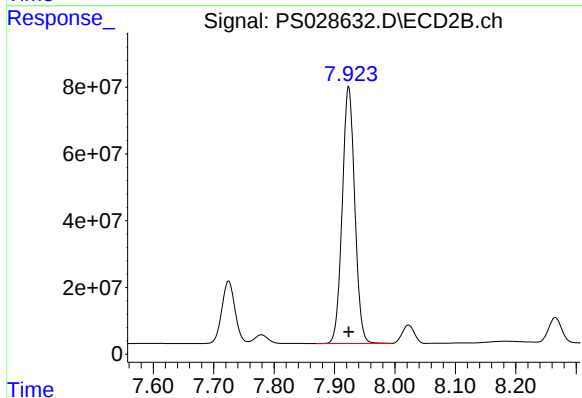
R.T.: 7.725 min
Delta R.T.: 0.000 min
Response: 282825264
Conc: 206.92 ng/ml



#5 DICAMBA

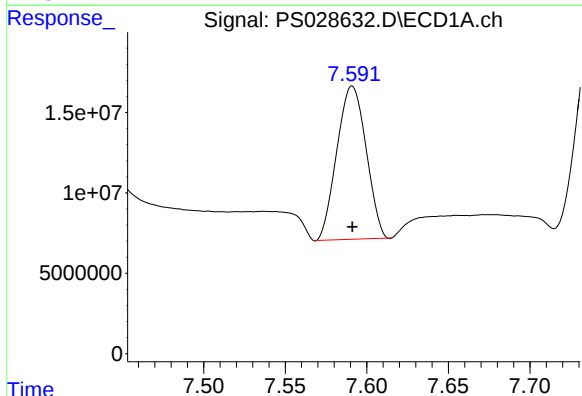
R.T.: 7.412 min
Delta R.T.: 0.000 min
Response: 2313682686
Conc: 195.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



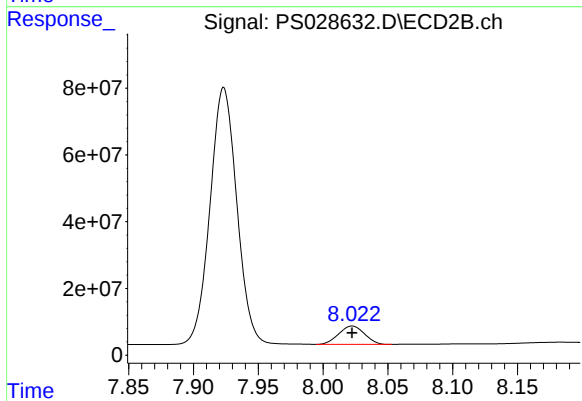
#5 DICAMBA

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 1110140608
Conc: 182.16 ng/ml



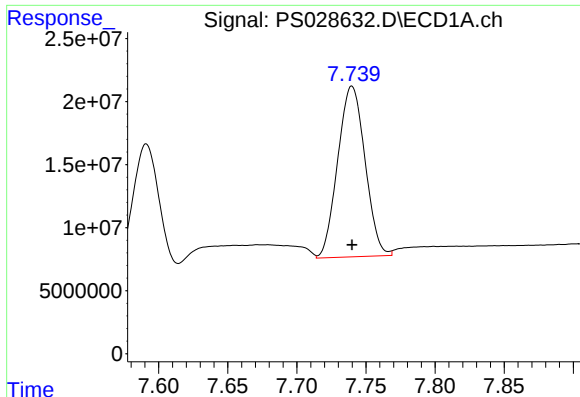
#6 MCP

R.T.: 7.591 min
Delta R.T.: 0.000 min
Response: 118734787
Conc: 16.96 ug/ml



#6 MCP

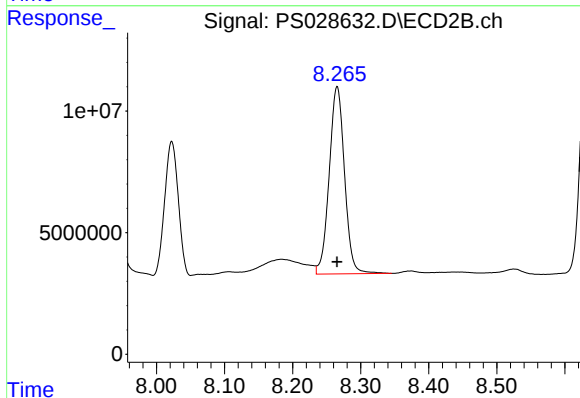
R.T.: 8.022 min
Delta R.T.: 0.000 min
Response: 76224788
Conc: 18.00 ug/ml



#7 MCPA

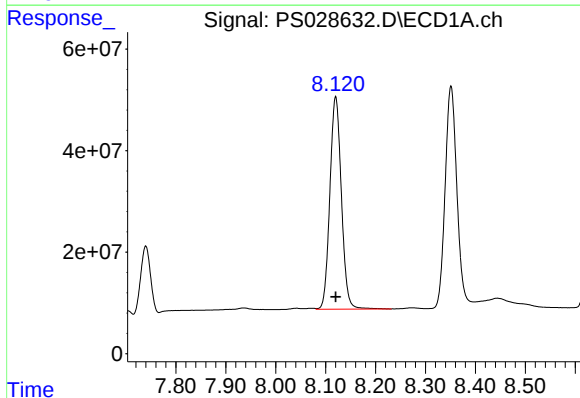
R.T.: 7.740 min
Delta R.T.: 0.000 min
Response: 185959363
Conc: 18.17 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



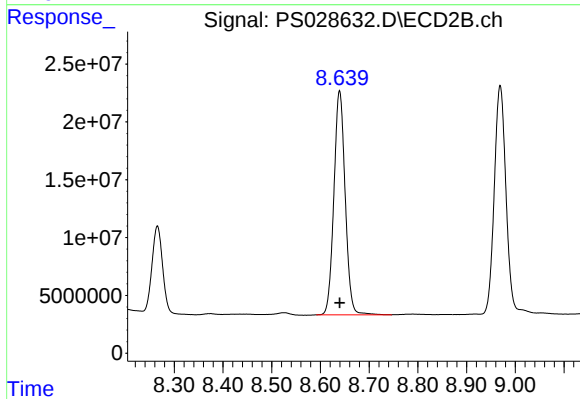
#7 MCPA

R.T.: 8.265 min
Delta R.T.: 0.000 min
Response: 120600312
Conc: 19.22 ug/ml



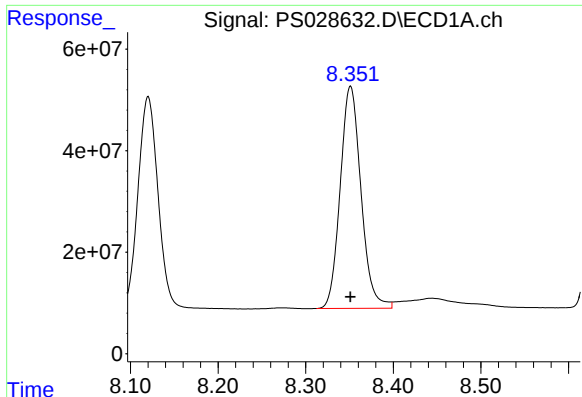
#8 DICHLORPROP

R.T.: 8.120 min
Delta R.T.: 0.000 min
Response: 669803146
Conc: 205.16 ng/ml



#8 DICHLORPROP

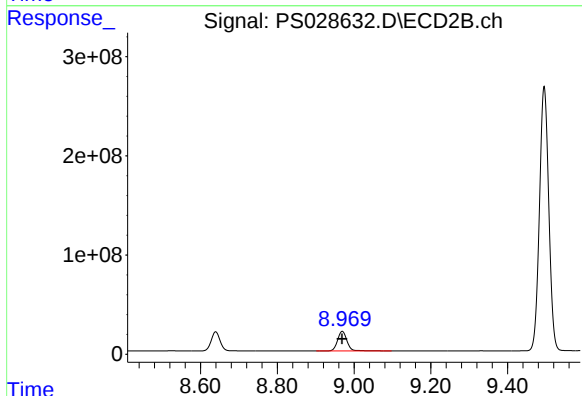
R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 310956668
Conc: 192.77 ng/ml



#9 2,4-D

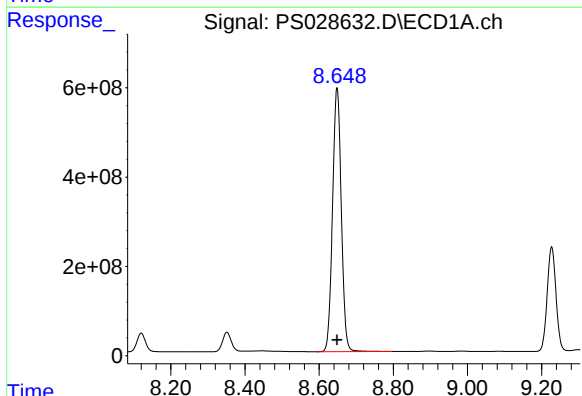
R.T.: 8.351 min
Delta R.T.: 0.000 min
Response: 722492470
Conc: 203.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



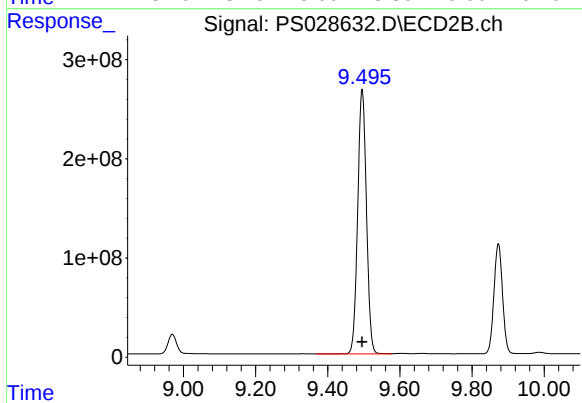
#9 2,4-D

R.T.: 8.969 min
Delta R.T.: 0.000 min
Response: 335123478
Conc: 194.72 ng/ml



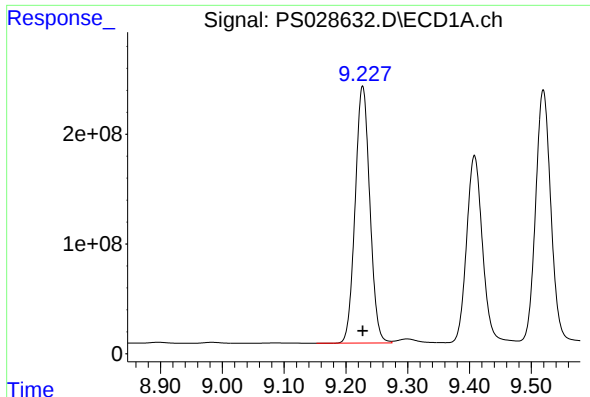
#10 Pentachlorophenol

R.T.: 8.648 min
Delta R.T.: 0.000 min
Response: 9682154401
Conc: 201.09 ng/ml



#10 Pentachlorophenol

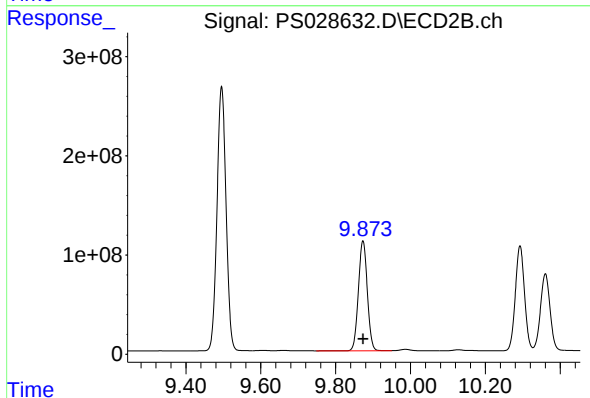
R.T.: 9.495 min
Delta R.T.: 0.000 min
Response: 4479965532
Conc: 191.00 ng/ml



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

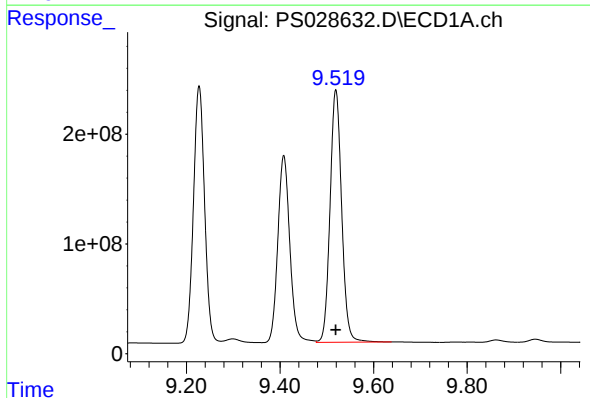
R.T.: 9.227 min
Delta R.T.: 0.000 min
Response: 3851564126
Conc: 201.64 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



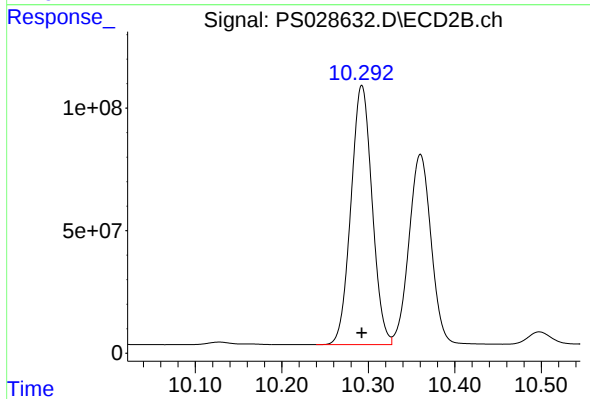
#11 2,4,5-TP (SILVEX)

R.T.: 9.873 min
Delta R.T.: 0.000 min
Response: 1833491790
Conc: 190.02 ng/ml



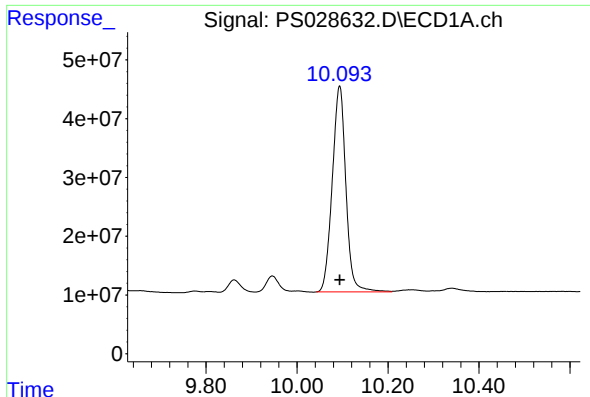
#12 2,4,5-T

R.T.: 9.519 min
Delta R.T.: 0.000 min
Response: 3956199350
Conc: 201.70 ng/ml



#12 2,4,5-T

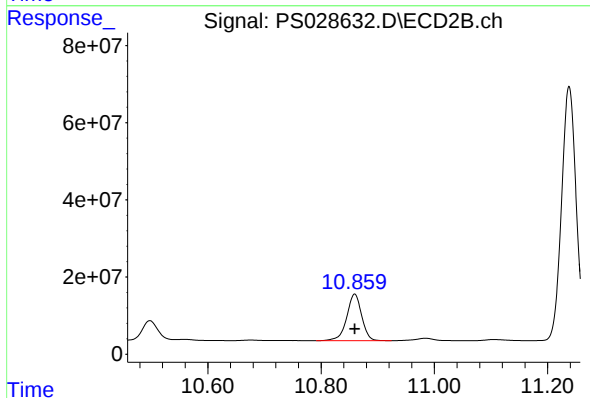
R.T.: 10.293 min
Delta R.T.: 0.000 min
Response: 1798957032
Conc: 190.77 ng/ml



#13 2,4-DB

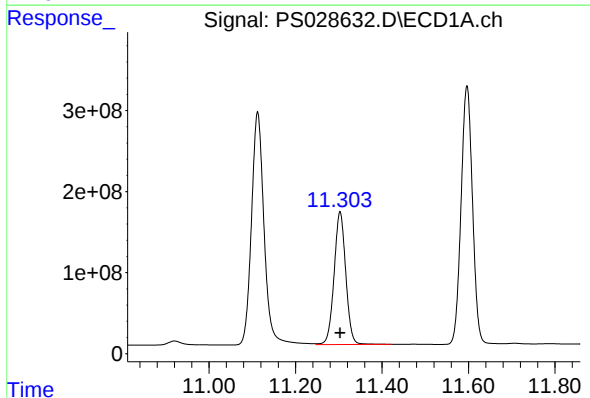
R.T.: 10.094 min
Delta R.T.: 0.000 min
Response: 728622483
Conc: 199.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



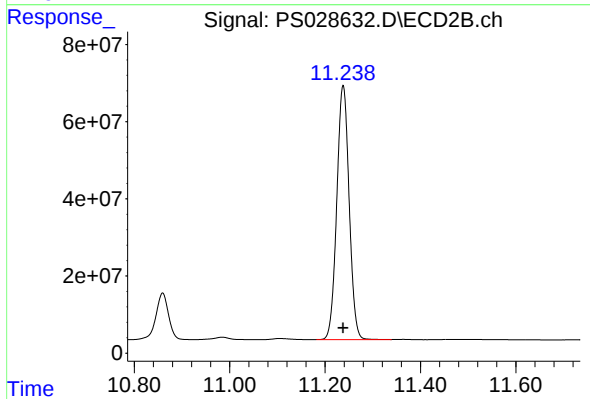
#13 2,4-DB

R.T.: 10.859 min
Delta R.T.: 0.000 min
Response: 220610040
Conc: 192.40 ng/ml



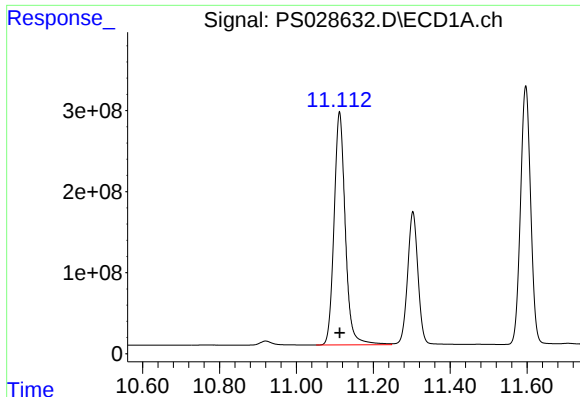
#14 DINOSEB

R.T.: 11.303 min
Delta R.T.: 0.000 min
Response: 3064581225
Conc: 197.06 ng/ml



#14 DINOSEB

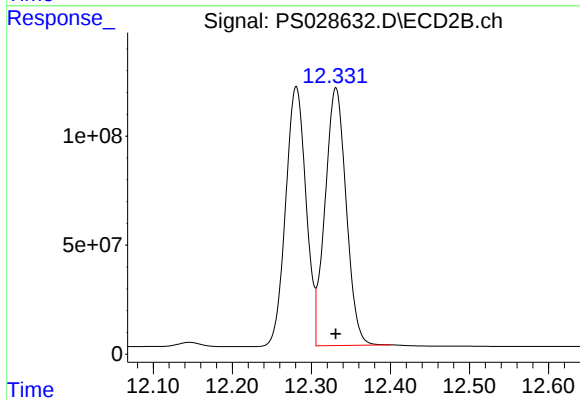
R.T.: 11.238 min
Delta R.T.: 0.000 min
Response: 1182623872
Conc: 187.41 ng/ml



#15 Picloram

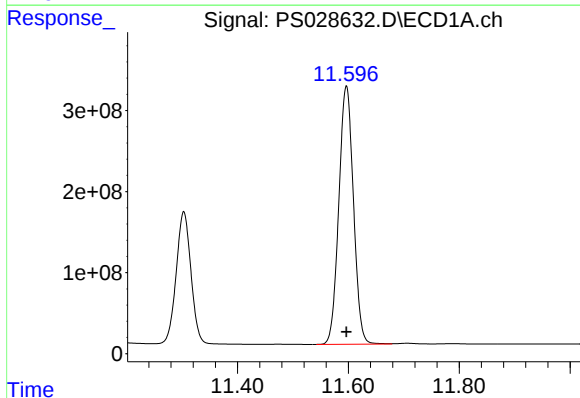
R.T.: 11.112 min
Delta R.T.: 0.000 min
Response: 5805389058
Conc: 192.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



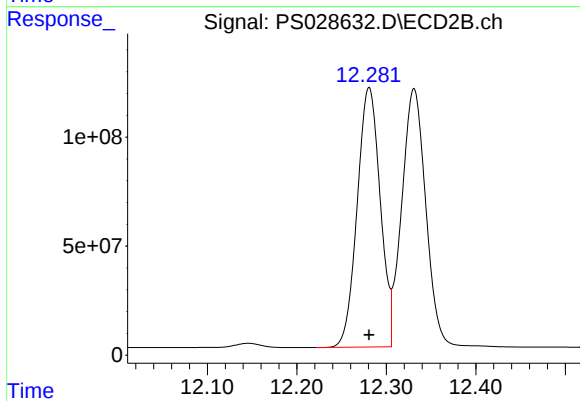
#15 Picloram

R.T.: 12.331 min
Delta R.T.: 0.000 min
Response: 2190959732
Conc: 174.83 ng/ml



#16 DCPA

R.T.: 11.596 min
Delta R.T.: 0.000 min
Response: 5832715053
Conc: 202.70 ng/ml



#16 DCPA

R.T.: 12.281 min
Delta R.T.: 0.000 min
Response: 2127209016
Conc: 190.12 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
 Data File : PS028719.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Dec 2024 12:37
 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: Dec 06 22:56:36 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:44:30 2024
 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	7.227	7.718	2167.2E6	970.1E6	807.961	720.142
Target Compounds							
1) T	Dalapon	2.626	2.679	2307.2E6	1474.3E6	795.080	675.114
2) T	3,5-DICHL...	6.400	6.675	2885.4E6	1328.2E6	753.425	676.219
3) T	4-Nitroph...	7.026	7.245	1269.2E6	629.8E6	738.332	690.496
5) T	DICAMBA	7.415	7.916	8800.3E6	4498.8E6	766.542	730.773
6) T	MCPD	7.598	8.021	571.5E6	283.5E6	78.317	65.817
7) T	MCPA	7.748	8.265	783.1E6	378.5E6	75.743	60.988
8) T	DICHLORPROP	8.122	8.631	2307.4E6	1127.0E6	741.196	705.012
9) T	2,4-D	8.352	8.961	2507.8E6	1178.8E6	743.694	697.113
10) T	Pentachlo...	8.651	9.488	35492.1E6	17670.3E6	804.943	771.935
11) T	2,4,5-TP ...	9.229	9.865	14106.3E6	7286.4E6	771.690	763.576
12) T	2,4,5-T	9.521	10.284	14465.7E6	7007.6E6	771.280	752.671
13) T	2,4-DB	10.093	10.850	2681.1E6	805.5E6	756.998	702.438
14) T	DINOSEB	11.304	11.229	11379.6E6	4632.8E6	757.318	738.180
15) T	Picloram	11.112	12.321	23221.6E6	10096.4E6	780.906	783.228
16) T	DCPA	11.598	12.272	21396.0E6	8712.9E6	778.174	785.140

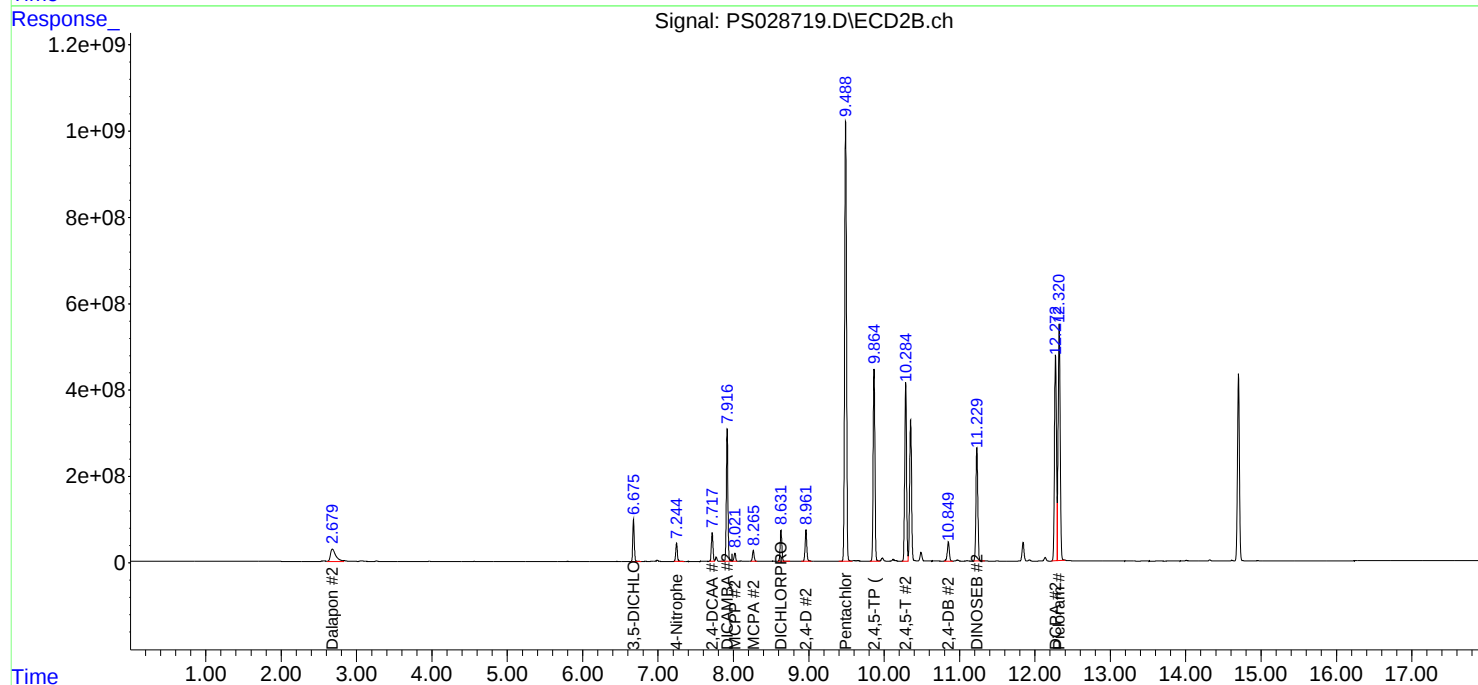
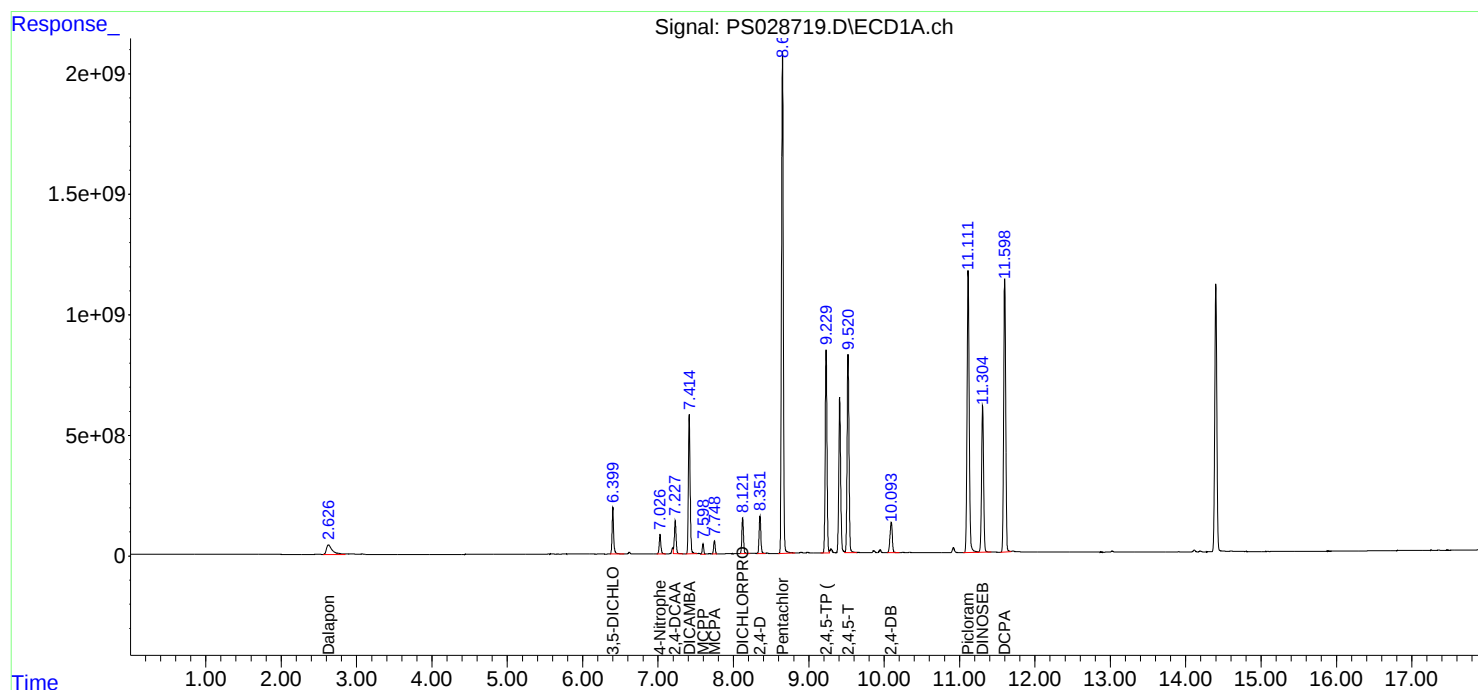
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

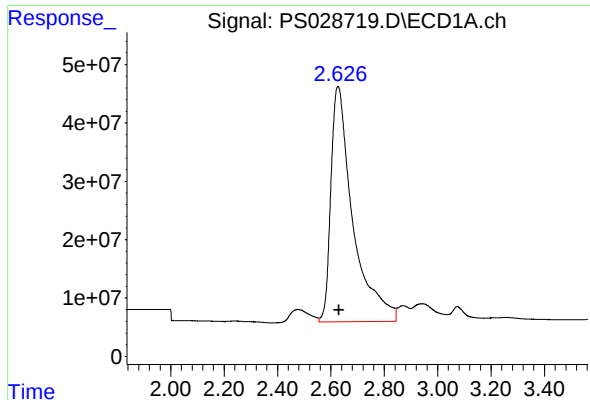
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028719.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 12:37
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:56:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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

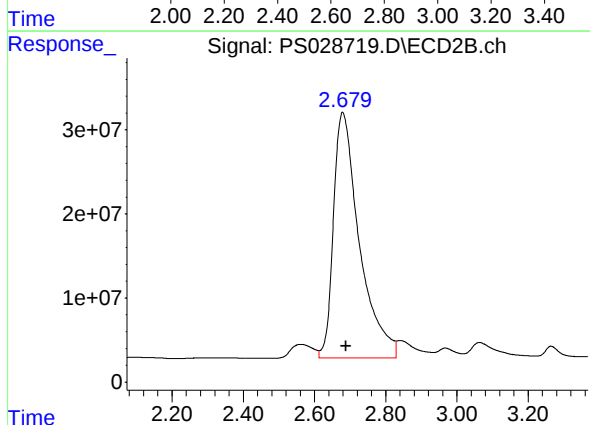




#1 Dalapon

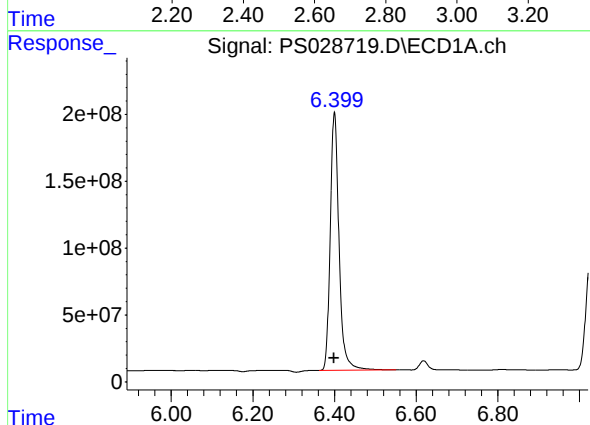
R.T.: 2.626 min
Delta R.T.: -0.004 min
Response: 2307199924
Conc: 795.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



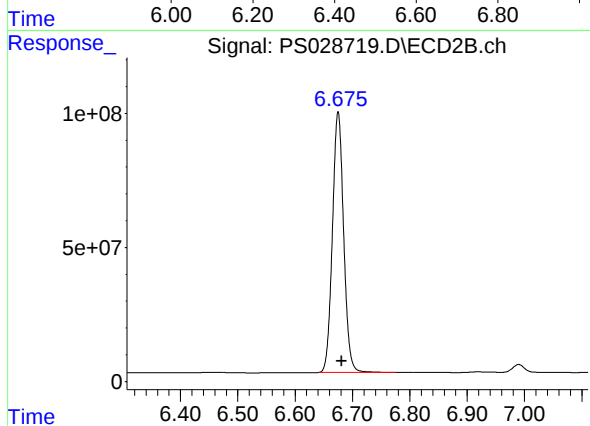
#1 Dalapon

R.T.: 2.679 min
Delta R.T.: -0.009 min
Response: 1474321787
Conc: 675.11 ng/ml



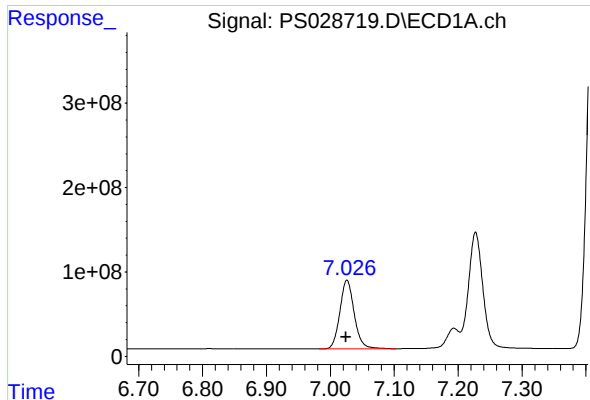
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.400 min
Delta R.T.: 0.000 min
Response: 2885356077
Conc: 753.42 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

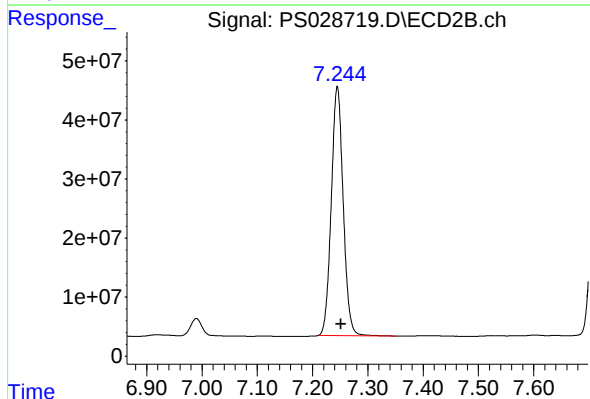
R.T.: 6.675 min
Delta R.T.: -0.006 min
Response: 1328155535
Conc: 676.22 ng/ml



#3 4-Nitrophenol

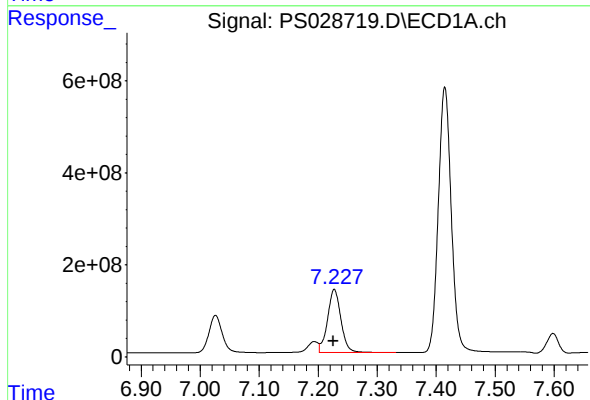
R.T.: 7.026 min
Delta R.T.: 0.001 min
Response: 1269173963
Conc: 738.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



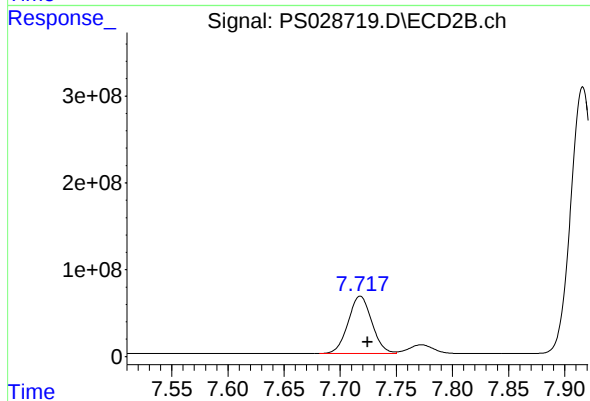
#3 4-Nitrophenol

R.T.: 7.245 min
Delta R.T.: -0.007 min
Response: 629825200
Conc: 690.50 ng/ml



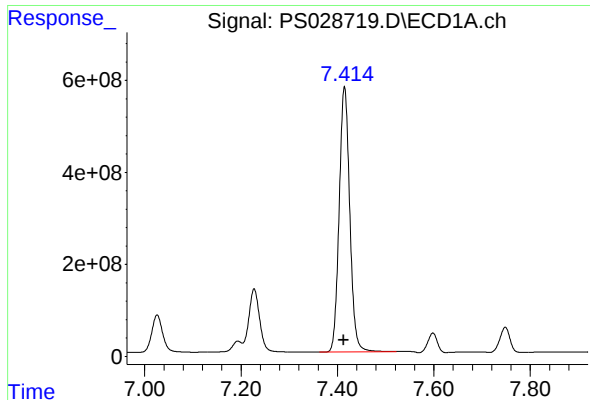
#4 2,4-DCAA

R.T.: 7.227 min
Delta R.T.: 0.001 min
Response: 2167227673
Conc: 807.96 ng/ml



#4 2,4-DCAA

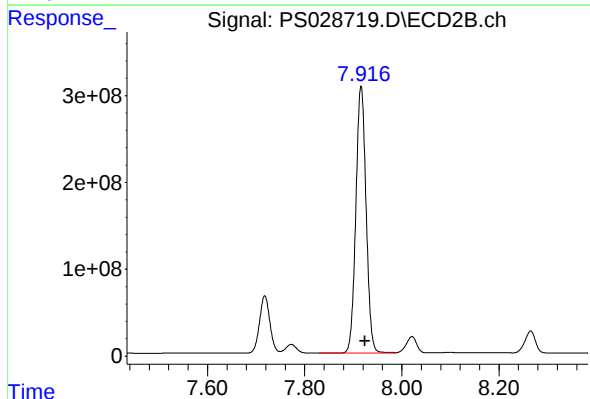
R.T.: 7.718 min
Delta R.T.: -0.007 min
Response: 970053160
Conc: 720.14 ng/ml



#5 DICAMBA

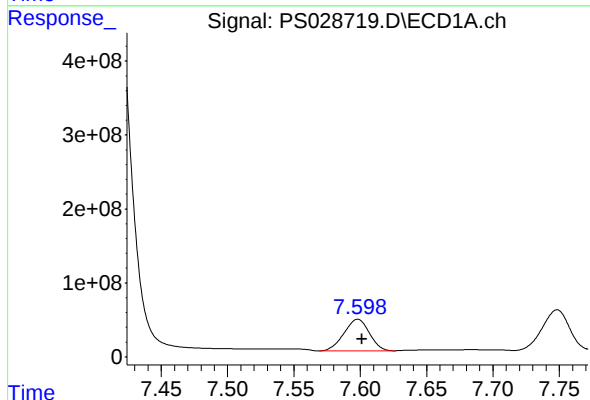
R.T.: 7.415 min
Delta R.T.: 0.002 min
Response: 8800314087
Conc: 766.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



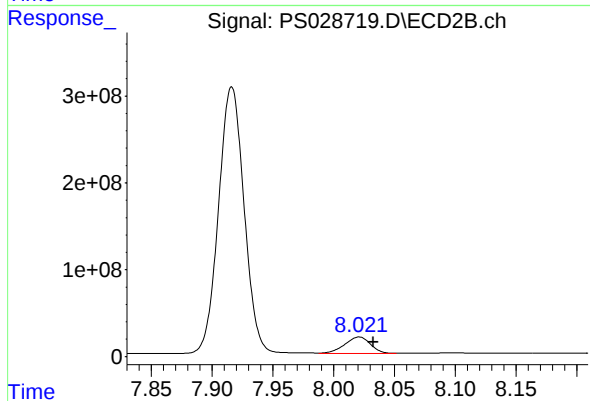
#5 DICAMBA

R.T.: 7.916 min
Delta R.T.: -0.008 min
Response: 4498794752
Conc: 730.77 ng/ml



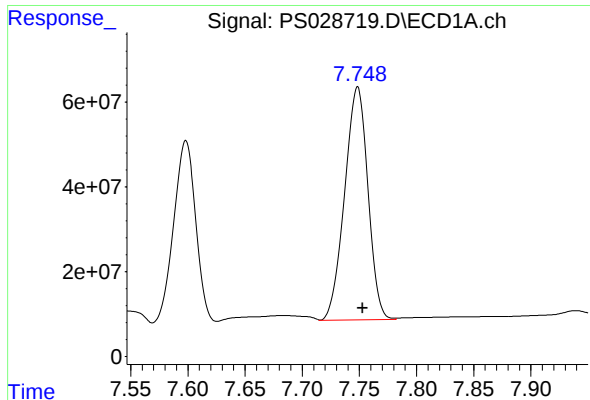
#6 MCPP

R.T.: 7.598 min
Delta R.T.: -0.003 min
Response: 571514070
Conc: 78.32 ug/ml



#6 MCPP

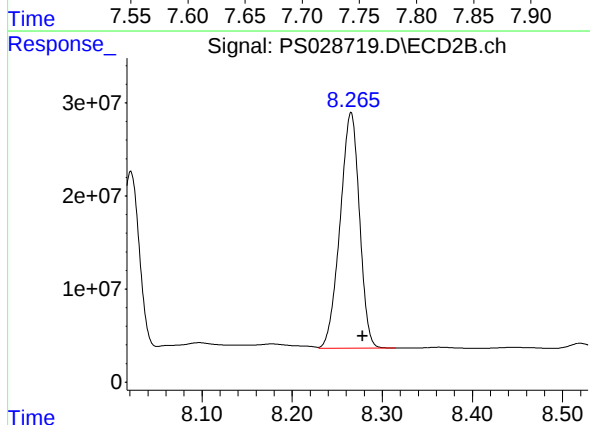
R.T.: 8.021 min
Delta R.T.: -0.012 min
Response: 283507352
Conc: 65.82 ug/ml



#7 MCPA

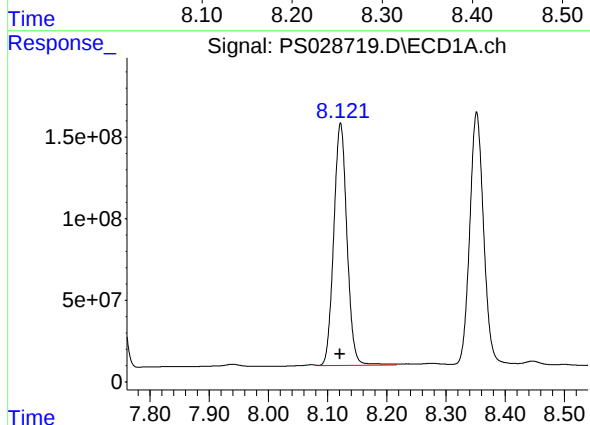
R.T.: 7.748 min
Delta R.T.: -0.005 min
Response: 783109692
Conc: 75.74 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



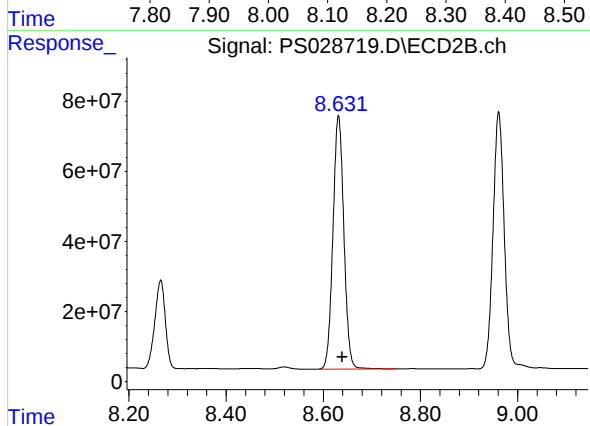
#7 MCPA

R.T.: 8.265 min
Delta R.T.: -0.013 min
Response: 378493937
Conc: 60.99 ug/ml



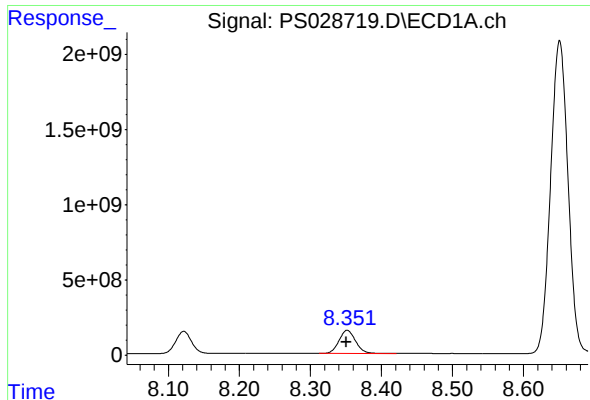
#8 DICHLORPROP

R.T.: 8.122 min
Delta R.T.: 0.001 min
Response: 2307421062
Conc: 741.20 ng/ml



#8 DICHLORPROP

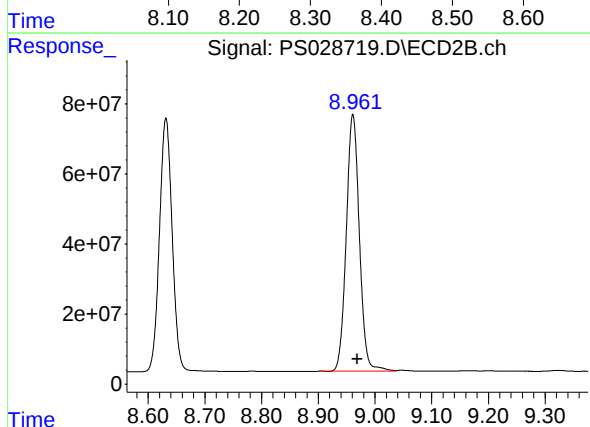
R.T.: 8.631 min
Delta R.T.: -0.008 min
Response: 1127045813
Conc: 705.01 ng/ml



#9 2,4-D

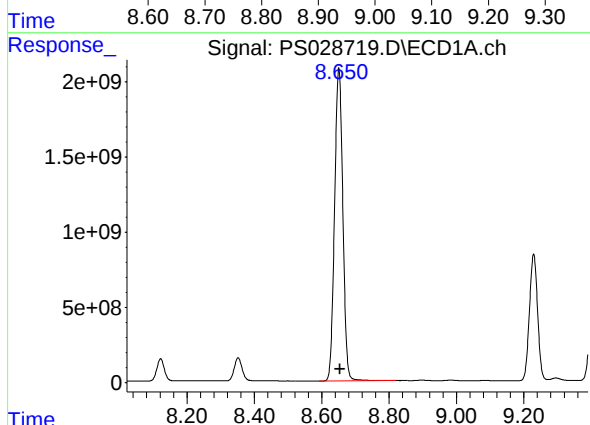
R.T.: 8.352 min
Delta R.T.: 0.002 min
Response: 2507846794
Conc: 743.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



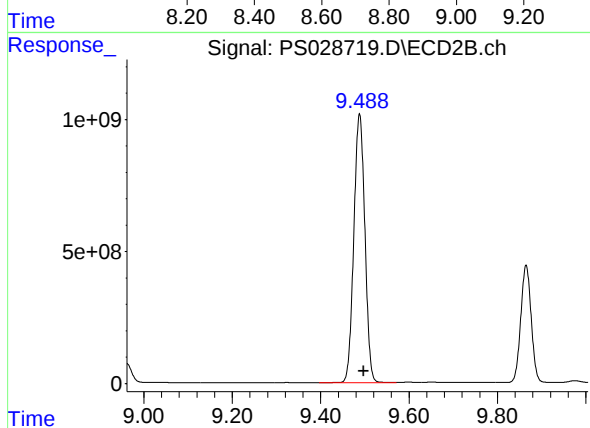
#9 2,4-D

R.T.: 8.961 min
Delta R.T.: -0.008 min
Response: 1178797408
Conc: 697.11 ng/ml



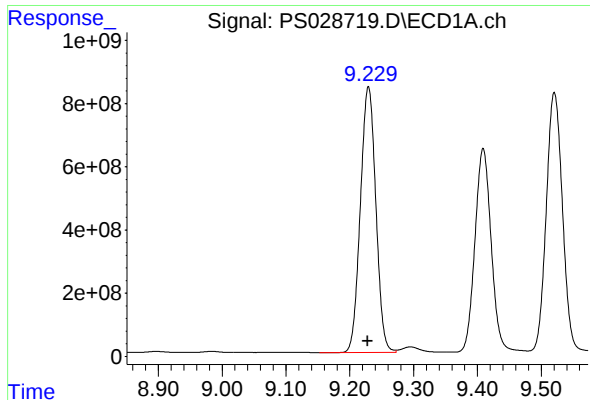
#10 Pentachlorophenol

R.T.: 8.651 min
Delta R.T.: -0.003 min
Response: 35492056772
Conc: 804.94 ng/ml



#10 Pentachlorophenol

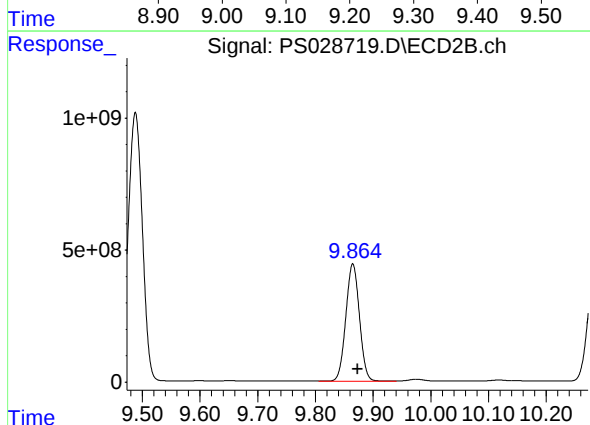
R.T.: 9.488 min
Delta R.T.: -0.009 min
Response: 17670263320
Conc: 771.93 ng/ml



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

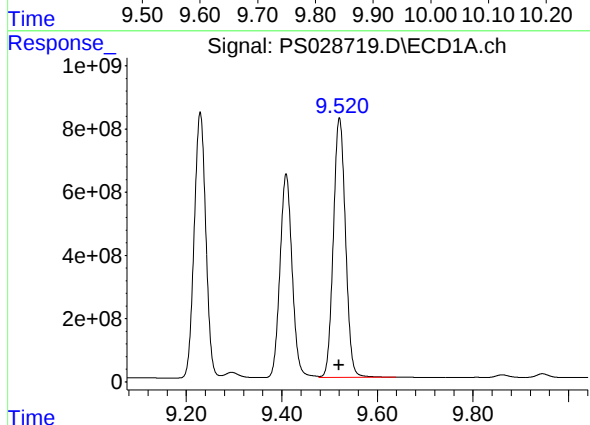
R.T.: 9.229 min
Delta R.T.: 0.001 min
Response: 14106328488
Conc: 771.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



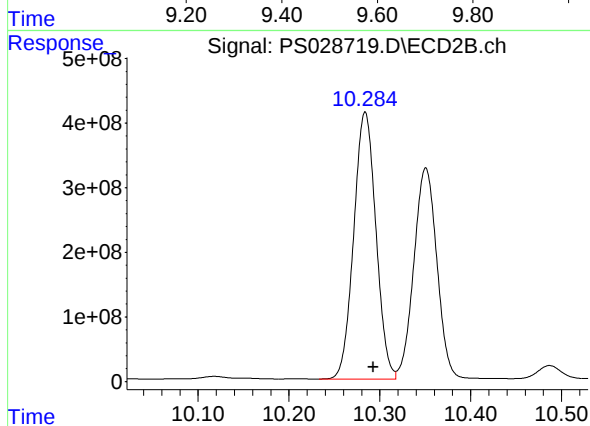
#11 2,4,5-TP (SILVEX)

R.T.: 9.865 min
Delta R.T.: -0.008 min
Response: 7286441487
Conc: 763.58 ng/ml



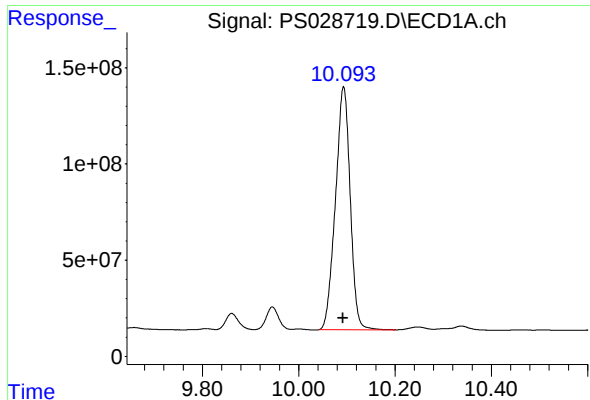
#12 2,4,5-T

R.T.: 9.521 min
Delta R.T.: 0.000 min
Response: 14465746991
Conc: 771.28 ng/ml



#12 2,4,5-T

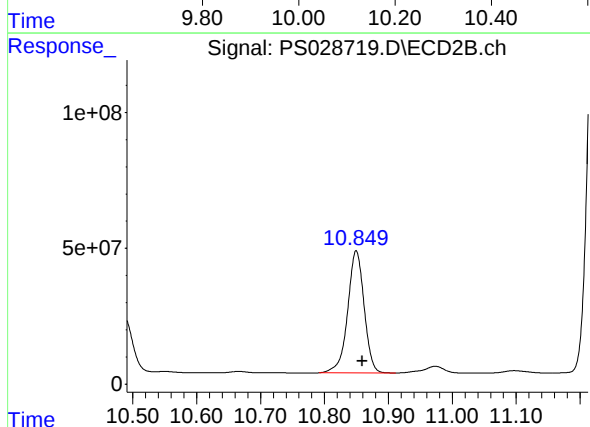
R.T.: 10.284 min
Delta R.T.: -0.009 min
Response: 7007581340
Conc: 752.67 ng/ml



#13 2,4-DB

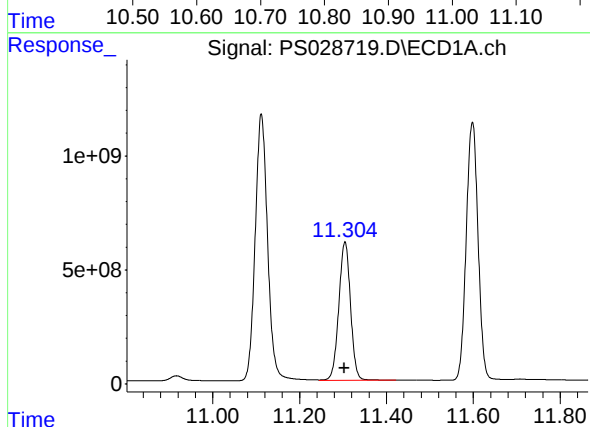
R.T.: 10.093 min
Delta R.T.: 0.001 min
Response: 2681066420
Conc: 757.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



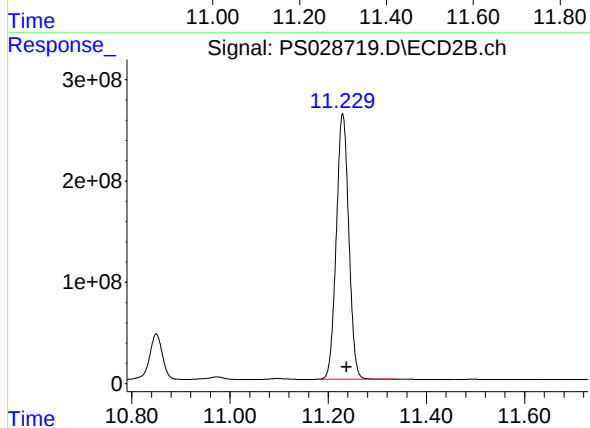
#13 2,4-DB

R.T.: 10.850 min
Delta R.T.: -0.009 min
Response: 805500820
Conc: 702.44 ng/ml



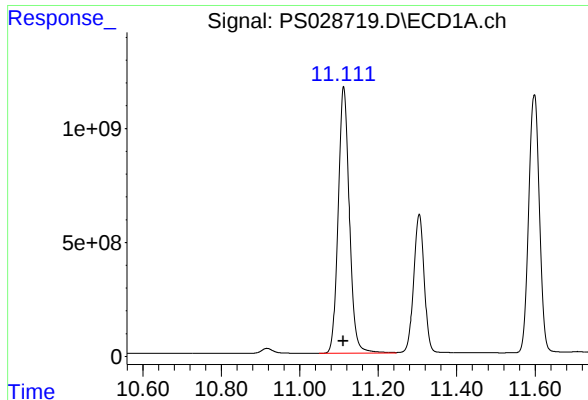
#14 DINOSEB

R.T.: 11.304 min
Delta R.T.: 0.001 min
Response: 11379627965
Conc: 757.32 ng/ml



#14 DINOSEB

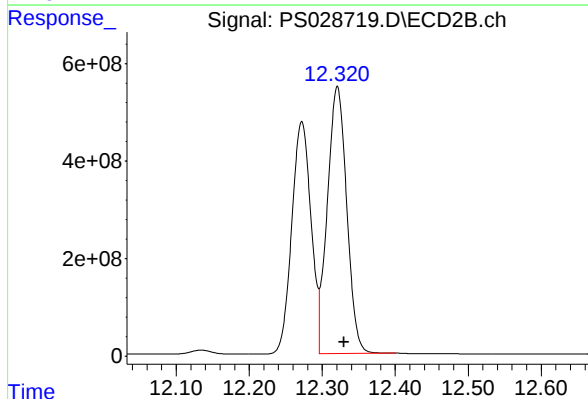
R.T.: 11.229 min
Delta R.T.: -0.008 min
Response: 4632834644
Conc: 738.18 ng/ml



#15 Picloram

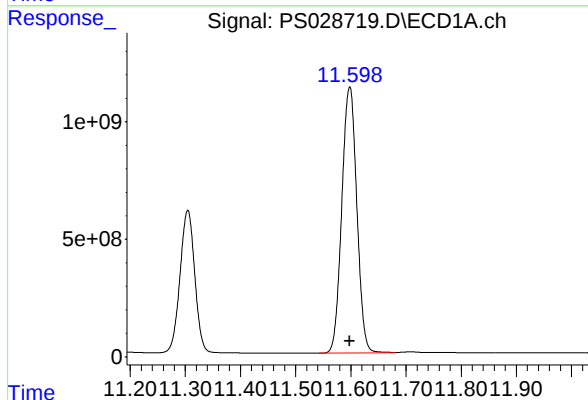
R.T.: 11.112 min
Delta R.T.: 0.000 min
Response: 23221618684
Conc: 780.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



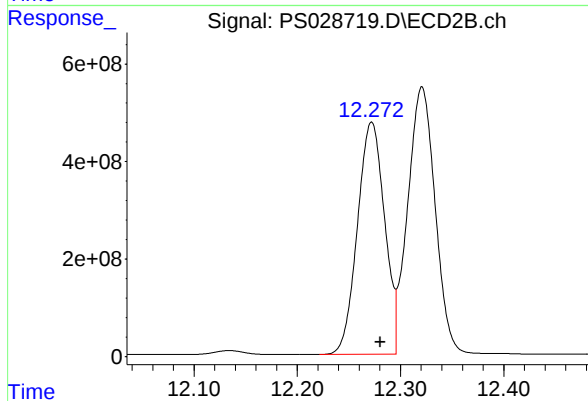
#15 Picloram

R.T.: 12.321 min
Delta R.T.: -0.009 min
Response: 10096352612
Conc: 783.23 ng/ml



#16 DCPA

R.T.: 11.598 min
Delta R.T.: 0.000 min
Response: 21396000030
Conc: 778.17 ng/ml



#16 DCPA

R.T.: 12.272 min
Delta R.T.: -0.008 min
Response: 8712870037
Conc: 785.14 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028721.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 16:57
Operator : AR\AJ
Sample : P5117-02MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:57:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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	7.226	7.720	961.6E6	356.0E6	358.484	264.279 #
Target Compounds							
1) T	Dalapon	2.631	2.688	1023.9E6	1414.5E6	352.861	647.737 #
2) T	3,5-DICHL...	6.398	6.678	1606.1E6	715.8E6	419.373	364.458
3) T	4-Nitroph...	7.025	7.249	19283881	3958573	11.218	4.340 #
5) T	DICAMBA	7.412	7.919	5044.2E6	2609.7E6	439.366	423.918
6) T	MCPD	7.593	8.021	235.9E6	165.2E6	32.330	38.352
7) T	MCPA	7.742	8.265	424.1E6	315.7E6	41.019	50.870
8) T	DICHLORPROP	8.118	8.634	1363.8E6	649.7E6	438.097	406.393
9) T	2,4-D	8.348	8.963	1782.0E6	813.6E6	528.453	481.167
10) T	Pentachlo...	8.647	9.490	13854.9E6	6606.7E6	314.224	288.617
11) T	2,4,5-TP ...	9.224	9.870	8987.5E6	8115.0E6	491.666	850.407 #
12) T	2,4,5-T	9.516	10.286	9128.8E6	4349.6E6	486.724	467.186
13) T	2,4-DB	10.090	10.851	1134.2E6	436.3E6	320.230	380.470
14) T	DINOSEB	11.298	11.230	3258.8E6	1222.2E6	216.877	194.738
15) T	Picloram	11.107	12.321	12573.4E6	5247.1E6	422.823	407.046
16) T	DCPA	11.590	12.273	12014.0E6	5501.9E6	436.951	495.789

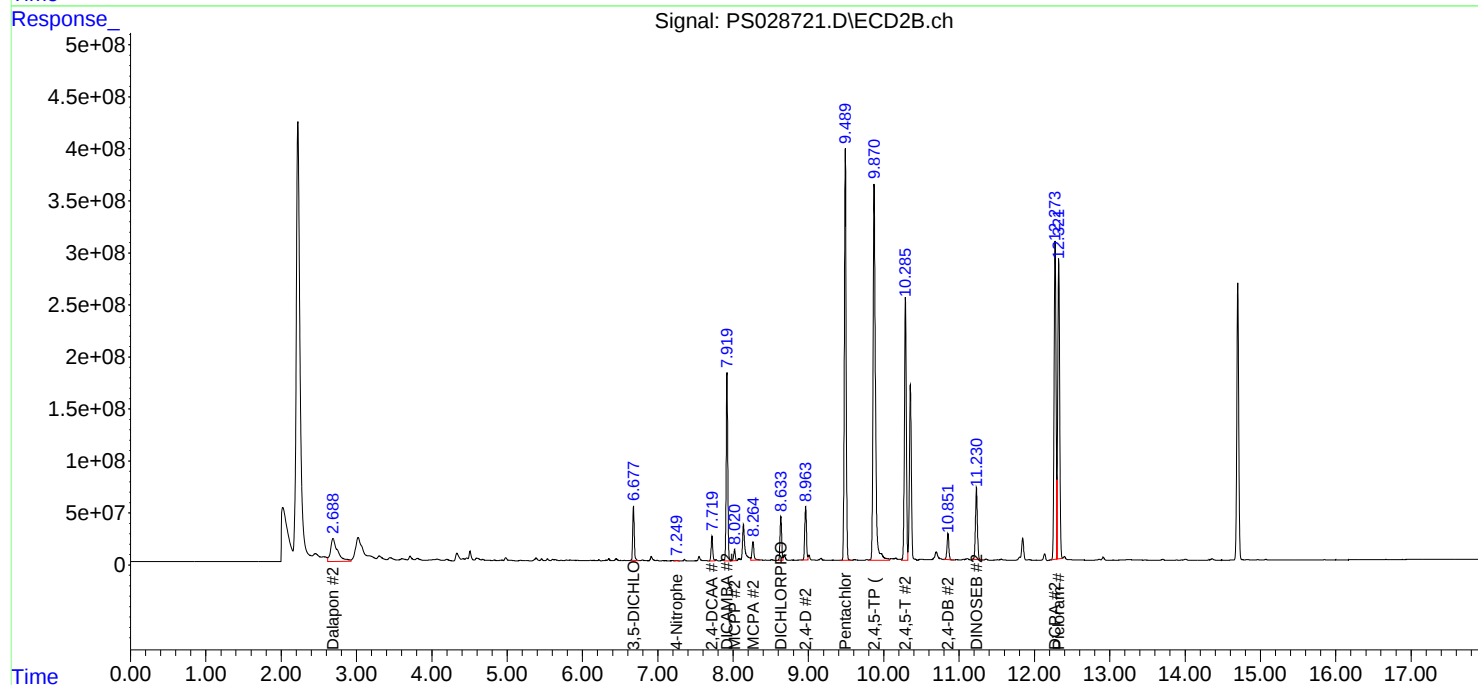
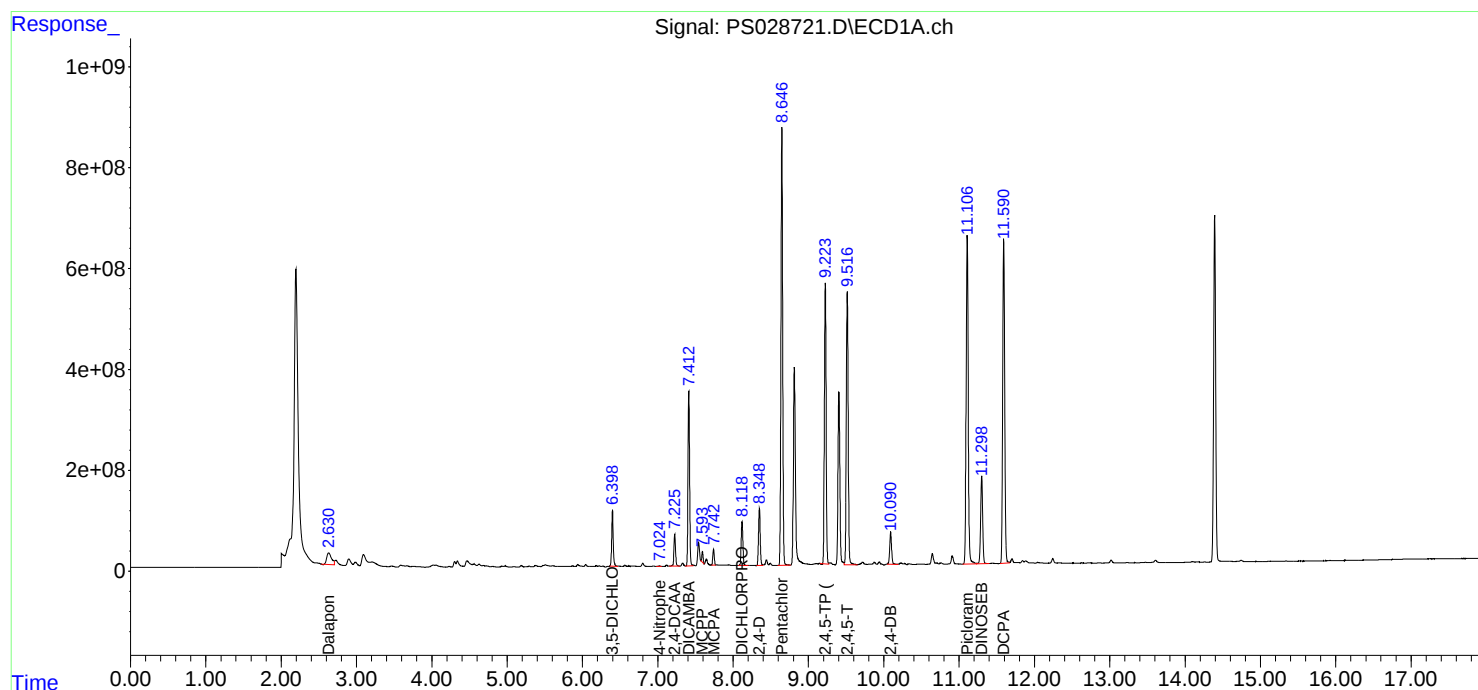
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

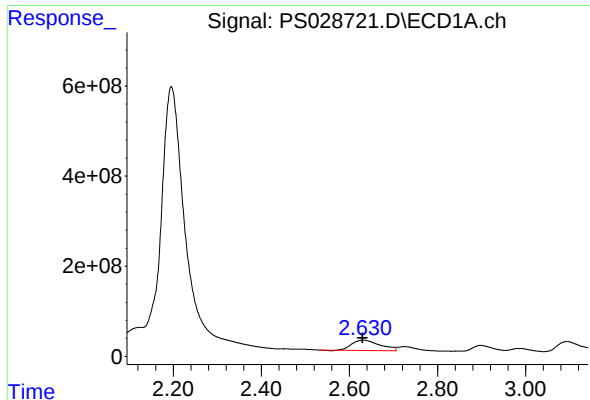
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028721.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 16:57
Operator : AR\AJ
Sample : P5117-02MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:57:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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

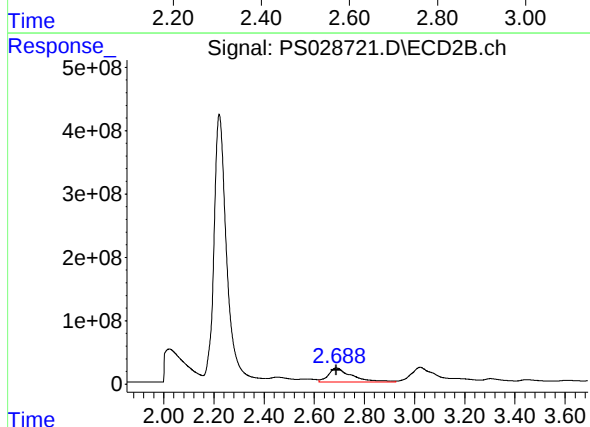
R.T.: 2.631 min
Delta R.T.: 0.000 min
Response: 1023948073
Conc: 352.86 ng/ml

Instrument :

ECD_S

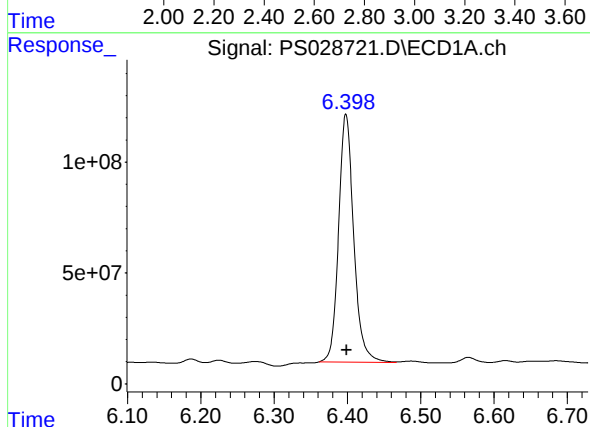
ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MS



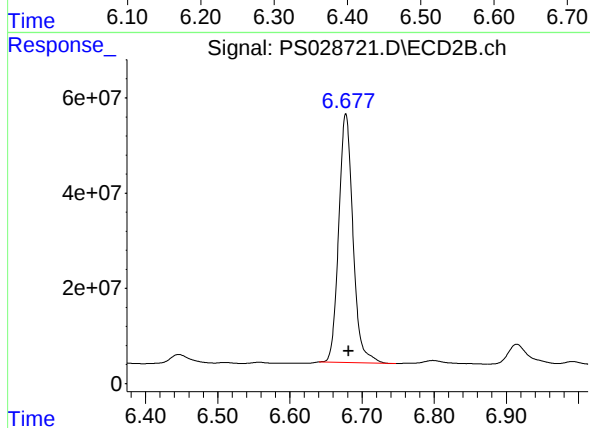
#1 Dalapon

R.T.: 2.688 min
Delta R.T.: 0.000 min
Response: 1414534288
Conc: 647.74 ng/ml



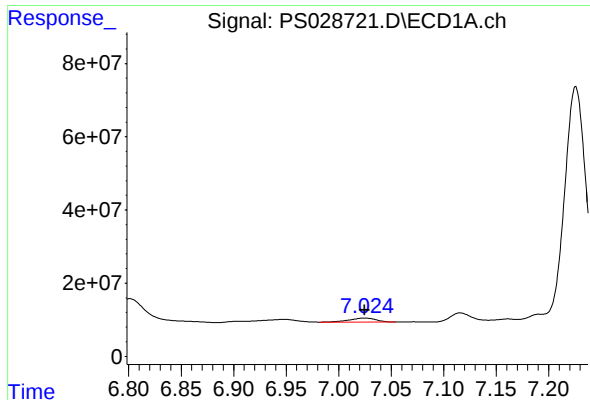
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.398 min
Delta R.T.: 0.000 min
Response: 1606054653
Conc: 419.37 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

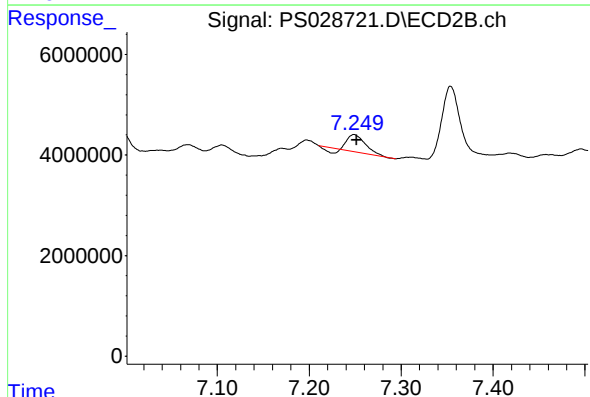
R.T.: 6.678 min
Delta R.T.: -0.004 min
Response: 715827745
Conc: 364.46 ng/ml



#3 4-Nitrophenol

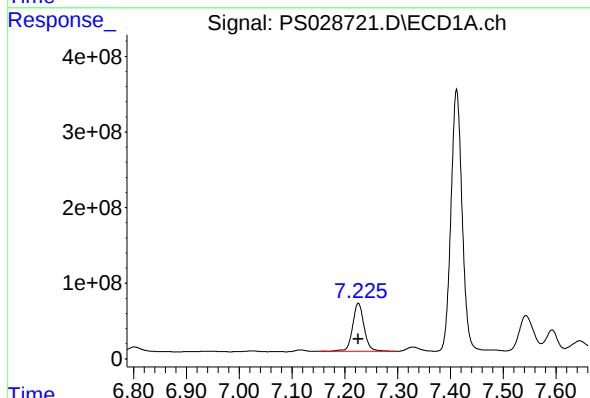
R.T.: 7.025 min
Delta R.T.: 0.000 min
Response: 19283881
Conc: 11.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MS



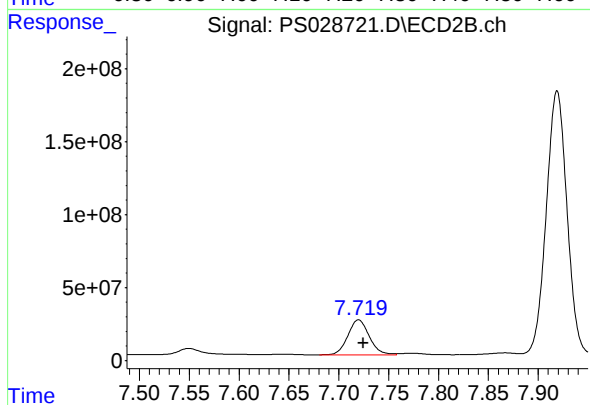
#3 4-Nitrophenol

R.T.: 7.249 min
Delta R.T.: -0.002 min
Response: 3958573
Conc: 4.34 ng/ml



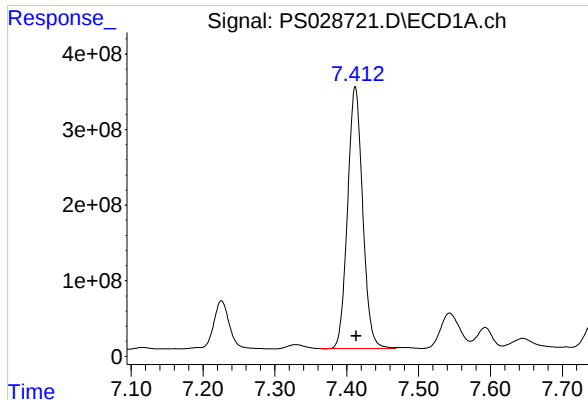
#4 2,4-DCAA

R.T.: 7.226 min
Delta R.T.: 0.000 min
Response: 961575751
Conc: 358.48 ng/ml



#4 2,4-DCAA

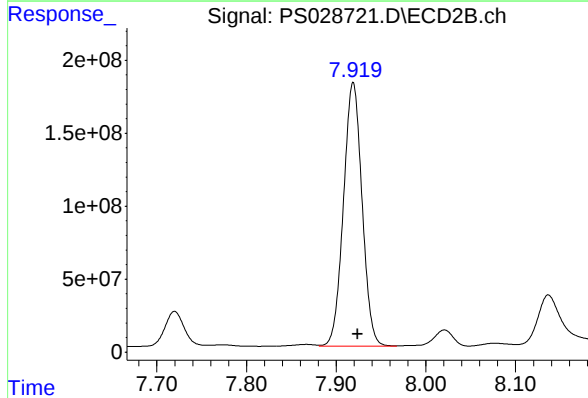
R.T.: 7.720 min
Delta R.T.: -0.005 min
Response: 355992051
Conc: 264.28 ng/ml



#5 DICAMBA

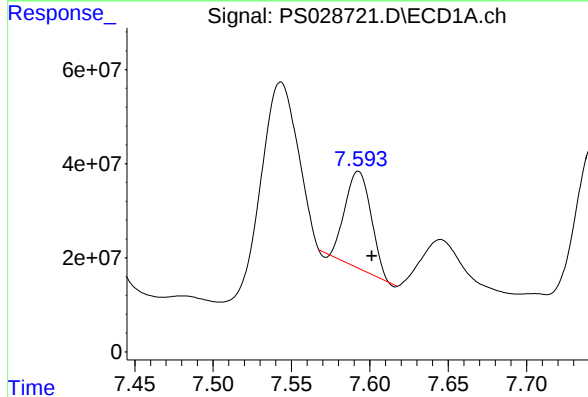
R.T.: 7.412 min
Delta R.T.: -0.001 min
Response: 5044154016
Conc: 439.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MS



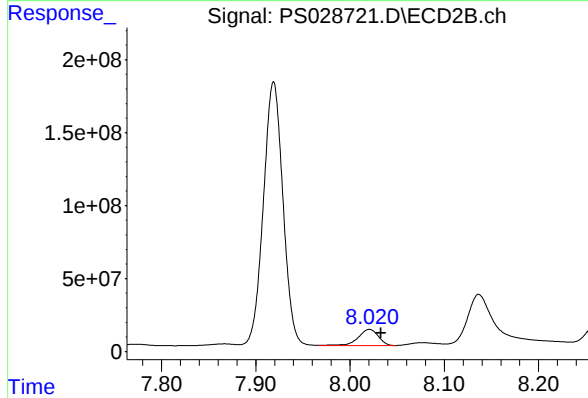
#5 DICAMBA

R.T.: 7.919 min
Delta R.T.: -0.005 min
Response: 2609731616
Conc: 423.92 ng/ml



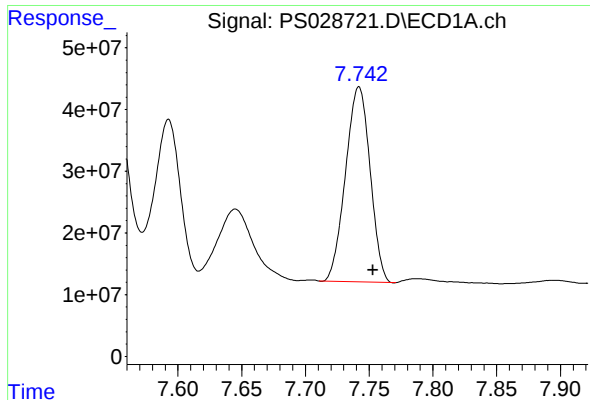
#6 MCPP

R.T.: 7.593 min
Delta R.T.: -0.009 min
Response: 235929693
Conc: 32.33 ug/ml



#6 MCPP

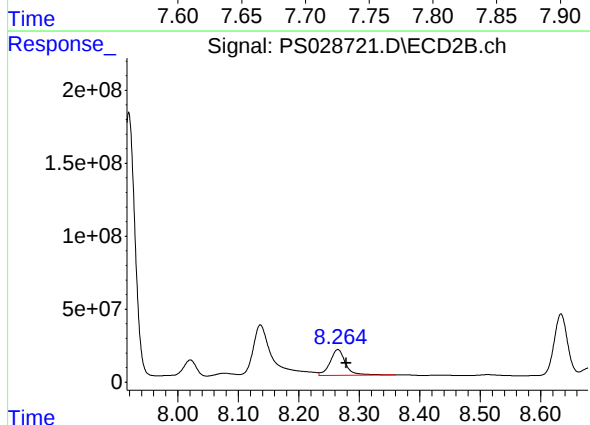
R.T.: 8.021 min
Delta R.T.: -0.012 min
Response: 165203143
Conc: 38.35 ug/ml



#7 MCPA

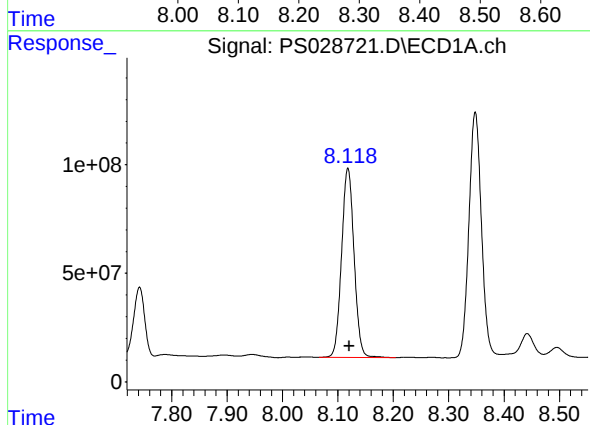
R.T.: 7.742 min
Delta R.T.: -0.011 min
Response: 424098836
Conc: 41.02 ug/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MS



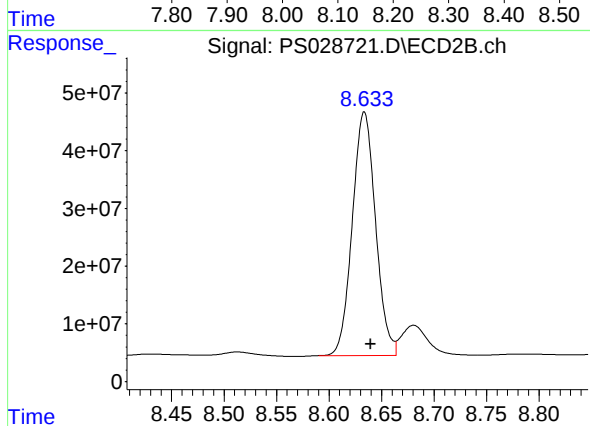
#7 MCPA

R.T.: 8.265 min
Delta R.T.: -0.014 min
Response: 315702066
Conc: 50.87 ug/ml



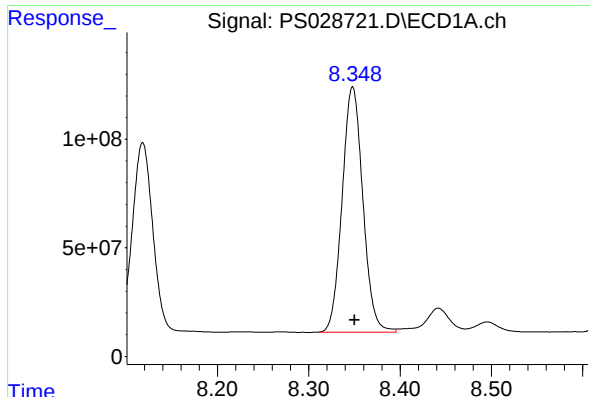
#8 DICHLORPROP

R.T.: 8.118 min
Delta R.T.: -0.003 min
Response: 1363841026
Conc: 438.10 ng/ml



#8 DICHLORPROP

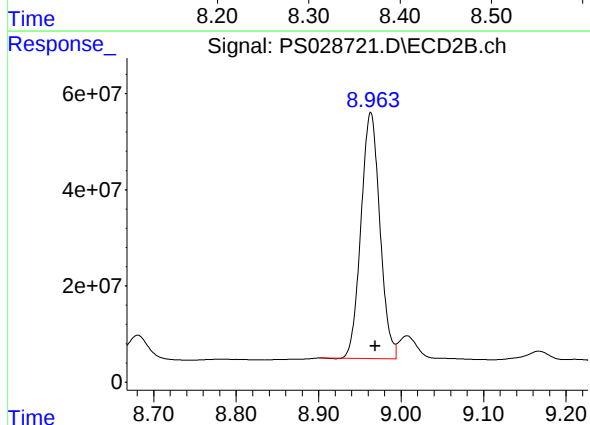
R.T.: 8.634 min
Delta R.T.: -0.006 min
Response: 649666823
Conc: 406.39 ng/ml



#9 2,4-D

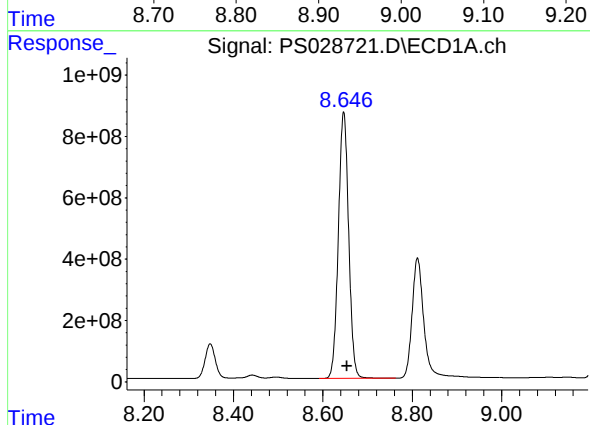
R.T.: 8.348 min
Delta R.T.: -0.002 min
Response: 1782021955
Conc: 528.45 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MS



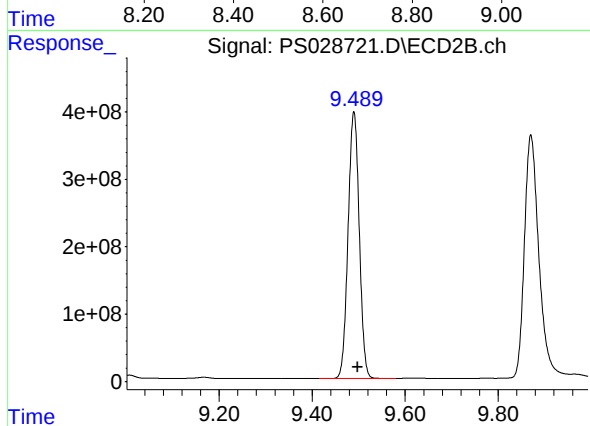
#9 2,4-D

R.T.: 8.963 min
Delta R.T.: -0.006 min
Response: 813638662
Conc: 481.17 ng/ml



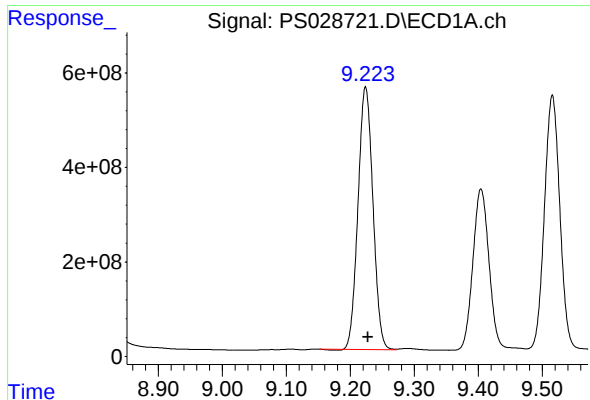
#10 Pentachlorophenol

R.T.: 8.647 min
Delta R.T.: -0.007 min
Response: 13854947078
Conc: 314.22 ng/ml



#10 Pentachlorophenol

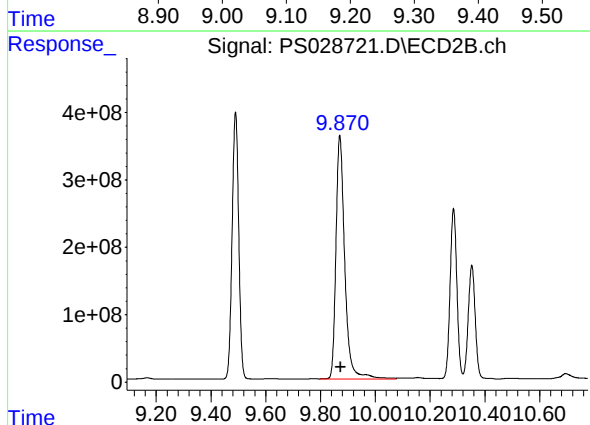
R.T.: 9.490 min
Delta R.T.: -0.007 min
Response: 6606701698
Conc: 288.62 ng/ml



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

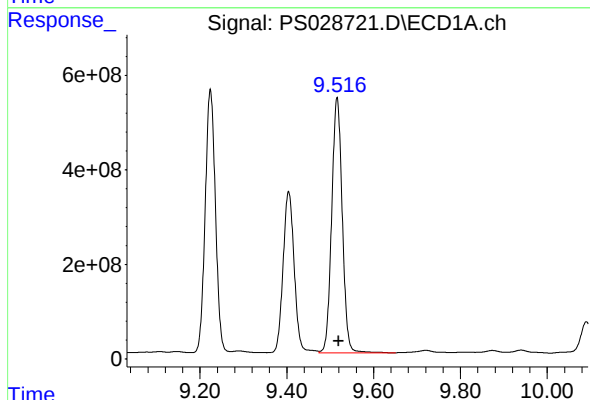
R.T.: 9.224 min
Delta R.T.: -0.004 min
Response: 8987544021
Conc: 491.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MS



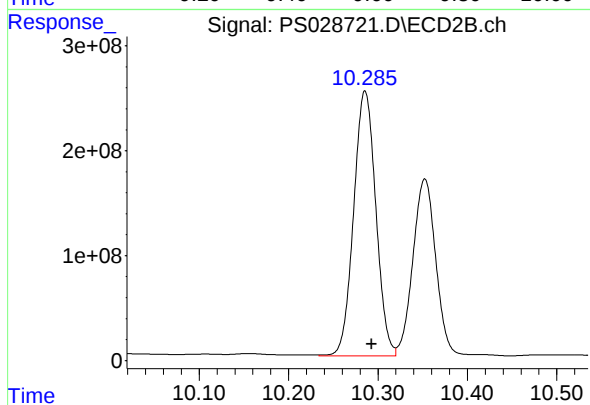
#11 2,4,5-TP (SILVEX)

R.T.: 9.870 min
Delta R.T.: -0.003 min
Response: 8115024179
Conc: 850.41 ng/ml



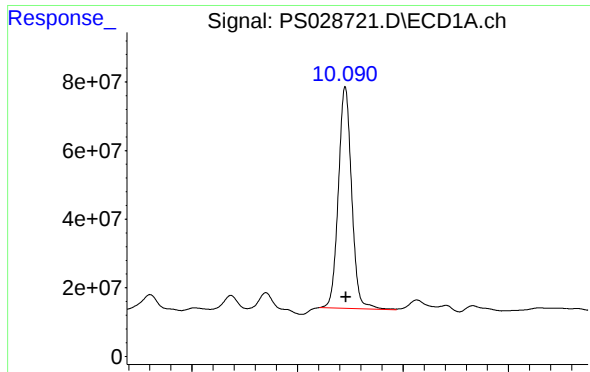
#12 2,4,5-T

R.T.: 9.516 min
Delta R.T.: -0.004 min
Response: 9128755579
Conc: 486.72 ng/ml



#12 2,4,5-T

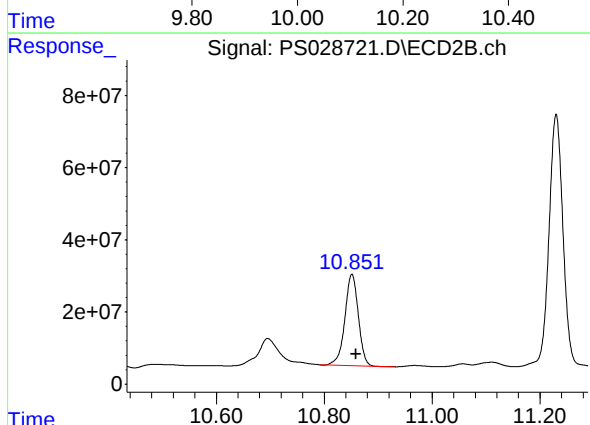
R.T.: 10.286 min
Delta R.T.: -0.007 min
Response: 4349636311
Conc: 467.19 ng/ml



#13 2,4-DB

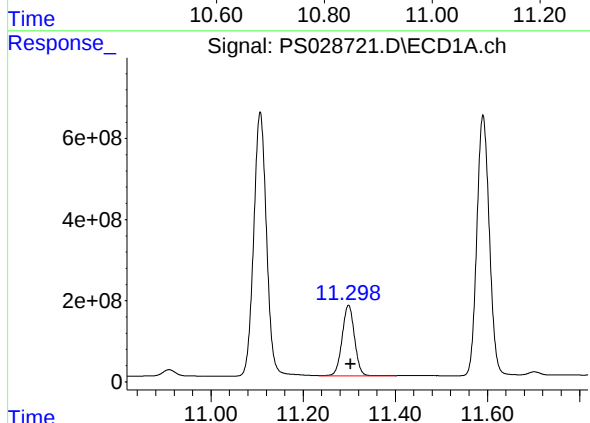
R.T.: 10.090 min
Delta R.T.: -0.002 min
Response: 1134159948
Conc: 320.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MS



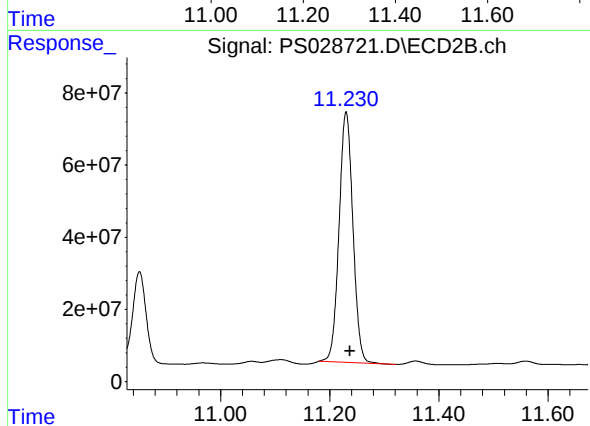
#13 2,4-DB

R.T.: 10.851 min
Delta R.T.: -0.008 min
Response: 436293344
Conc: 380.47 ng/ml



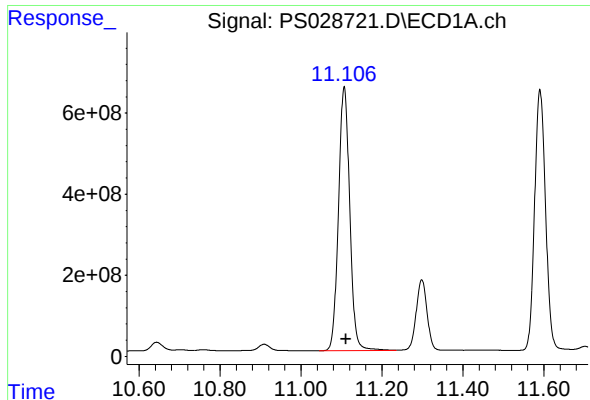
#14 DINOSEB

R.T.: 11.298 min
Delta R.T.: -0.005 min
Response: 3258842590
Conc: 216.88 ng/ml



#14 DINOSEB

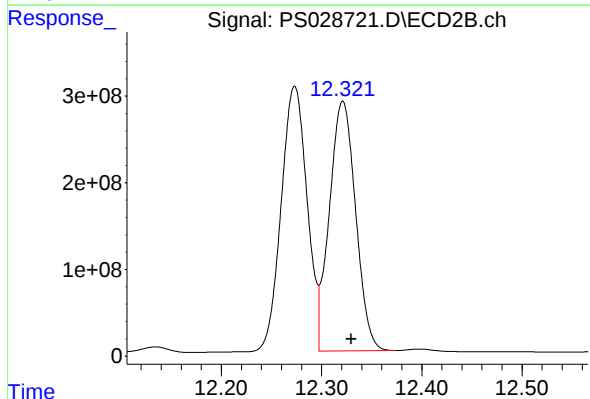
R.T.: 11.230 min
Delta R.T.: -0.007 min
Response: 1222182638
Conc: 194.74 ng/ml



#15 Picloram

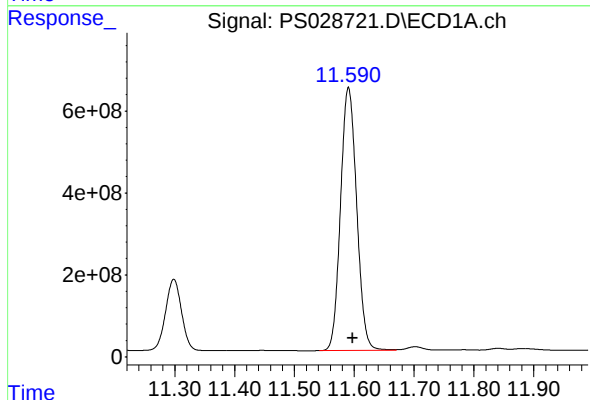
R.T.: 11.107 min
Delta R.T.: -0.005 min
Response: 12573395315
Conc: 422.82 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MS



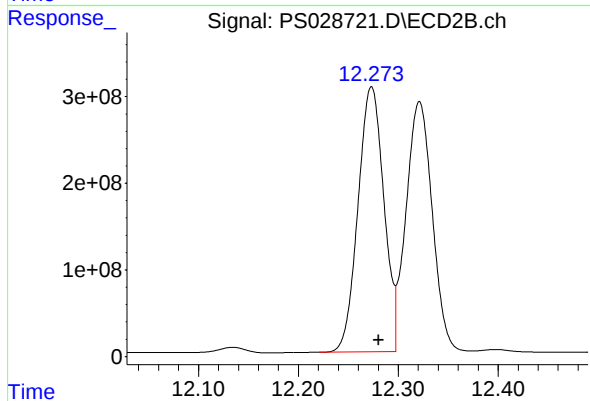
#15 Picloram

R.T.: 12.321 min
Delta R.T.: -0.009 min
Response: 5247105002
Conc: 407.05 ng/ml



#16 DCPA

R.T.: 11.590 min
Delta R.T.: -0.007 min
Response: 12014015358
Conc: 436.95 ng/ml



#16 DCPA

R.T.: 12.273 min
Delta R.T.: -0.007 min
Response: 5501879777
Conc: 495.79 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
 Data File : PS028722.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Dec 2024 17:21
 Operator : AR\AJ
 Sample : P5117-02MSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TAPIAL2-IDW-SOIL-120424-00-T2MSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 22:57:31 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:44:30 2024
 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	7.225	7.720	969.1E6	355.5E6	361.273	263.882 #
Target Compounds							
1) T	Dalapon	2.631	2.688	1049.6E6	1371.9E6	361.711	628.221 #
2) T	3,5-DICHL...	6.398	6.678	1596.0E6	717.8E6	416.759	365.452
3) T	4-Nitroph...	7.025	7.249	19290955	3864505	11.222	4.237 #
5) T	DICAMBA	7.411	7.919	5042.2E6	2608.1E6	439.192	423.656
6) T	MCPD	7.592	8.021	230.7E6	166.1E6	31.619	38.567
7) T	MCPA	7.741	8.265	423.8E6	315.5E6	40.987	50.833
8) T	DICHLORPROP	8.118	8.634	1359.8E6	652.1E6	436.810	407.901
9) T	2,4-D	8.348	8.963	1782.5E6	822.3E6	528.589	486.266
10) T	Pentachlo...	8.646	9.490	13789.9E6	6599.3E6	312.749	288.295
11) T	2,4,5-TP ...	9.224	9.870	8997.2E6	8103.7E6	492.193	849.219 #
12) T	2,4,5-T	9.516	10.286	9184.7E6	4374.0E6	489.704	469.804
13) T	2,4-DB	10.091	10.852	1135.3E6	439.4E6	320.546	383.188
14) T	DINOSEB	11.299	11.231	3248.5E6	1219.6E6	216.191	194.324
15) T	Picloram	11.107	12.322	12596.4E6	5258.8E6	423.598	407.957
16) T	DCPA	11.591	12.273	11997.3E6	5511.1E6	436.342	496.622

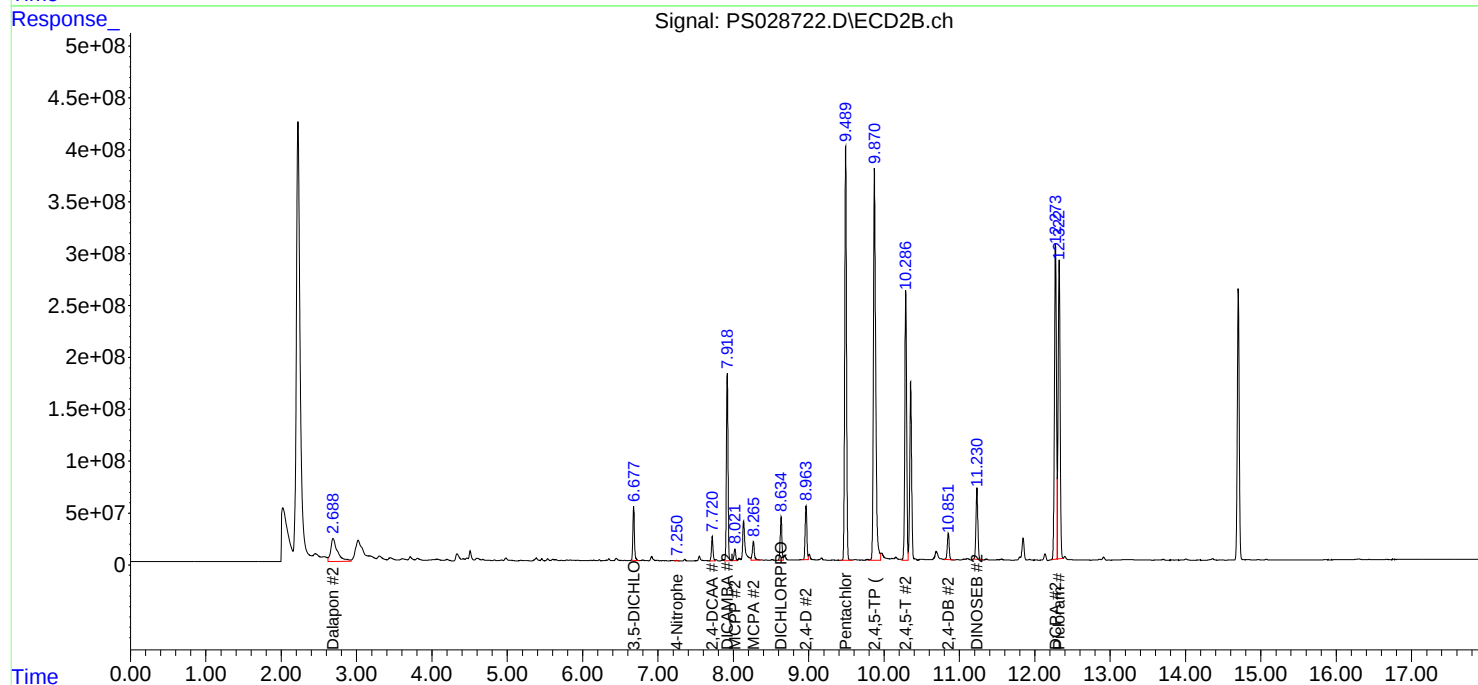
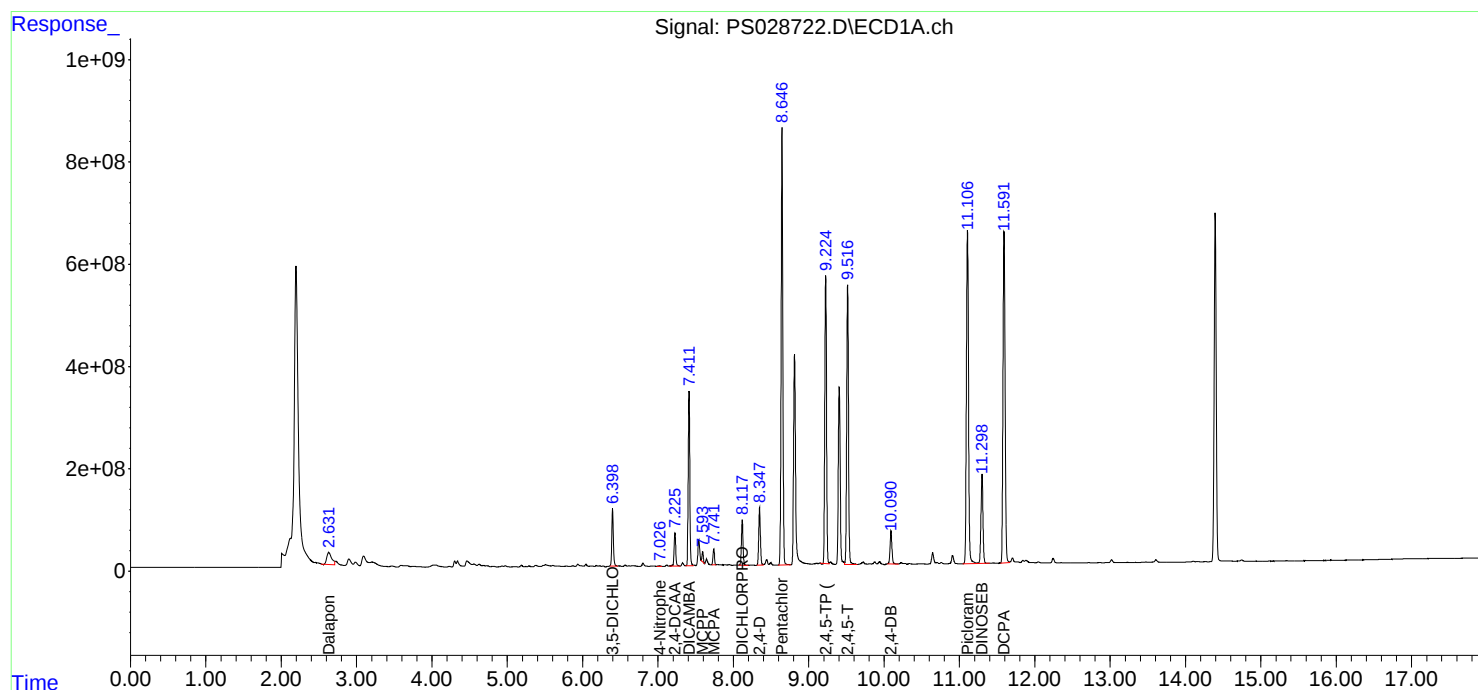
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

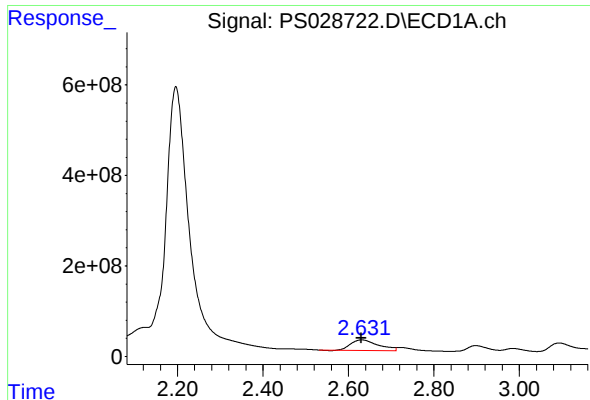
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028722.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 17:21
Operator : AR\AJ
Sample : P5117-02MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:57:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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

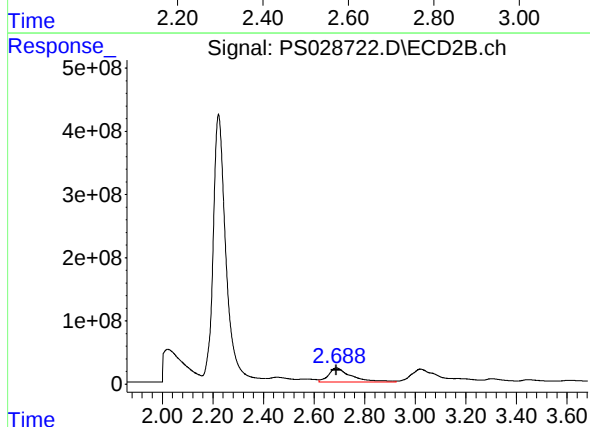
R.T.: 2.631 min
Delta R.T.: 0.001 min
Response: 1049630585
Conc: 361.71 ng/ml

Instrument :

ECD_S

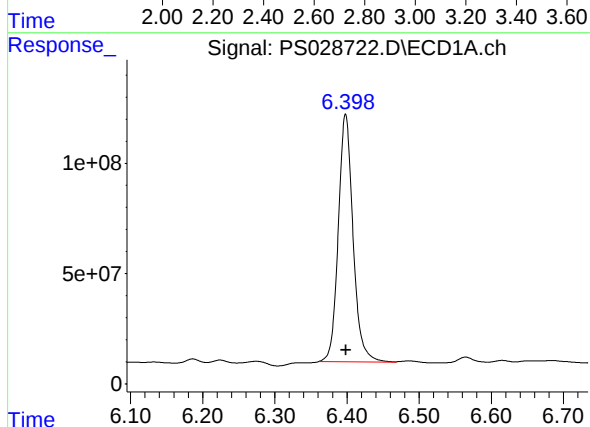
ClientSampleId :

TAPIAL2-IDW-SOIL-120424-00-T2MSD



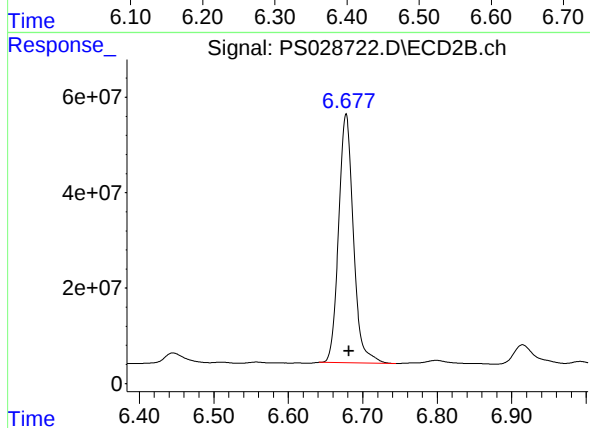
#1 Dalapon

R.T.: 2.688 min
Delta R.T.: 0.000 min
Response: 1371915255
Conc: 628.22 ng/ml



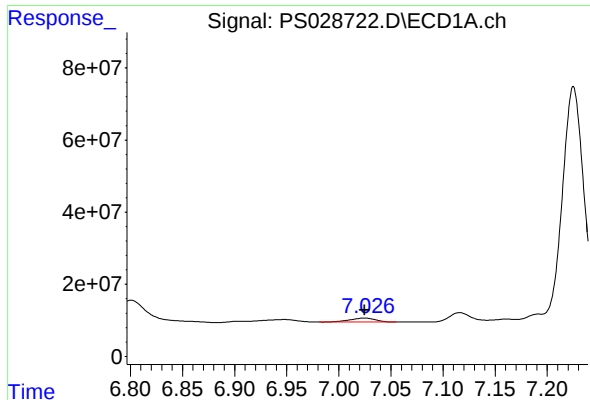
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.398 min
Delta R.T.: 0.000 min
Response: 1596042265
Conc: 416.76 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

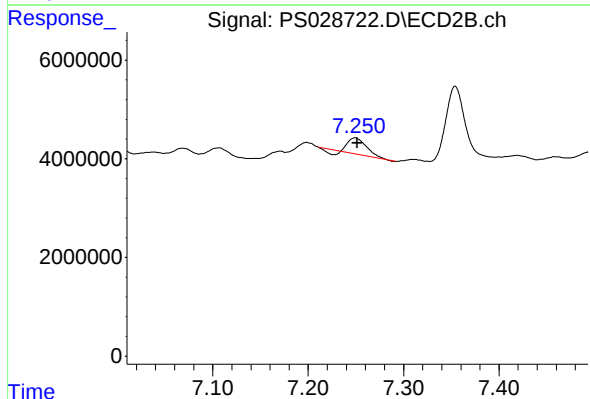
R.T.: 6.678 min
Delta R.T.: -0.004 min
Response: 717781779
Conc: 365.45 ng/ml



#3 4-Nitrophenol

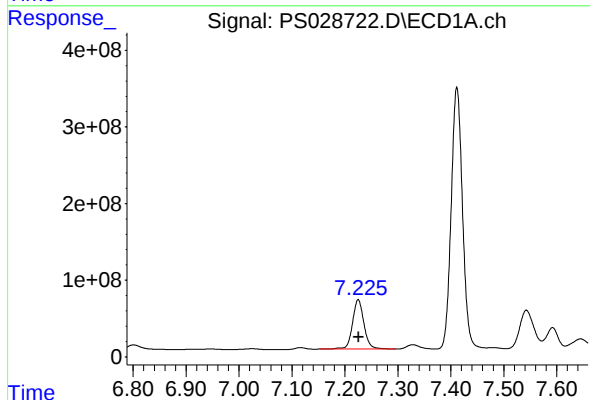
R.T.: 7.025 min
Delta R.T.: 0.000 min
Response: 19290955
Conc: 11.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MSD



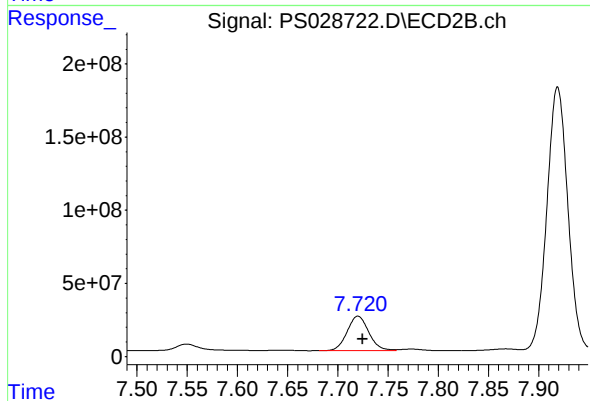
#3 4-Nitrophenol

R.T.: 7.249 min
Delta R.T.: -0.002 min
Response: 3864505
Conc: 4.24 ng/ml



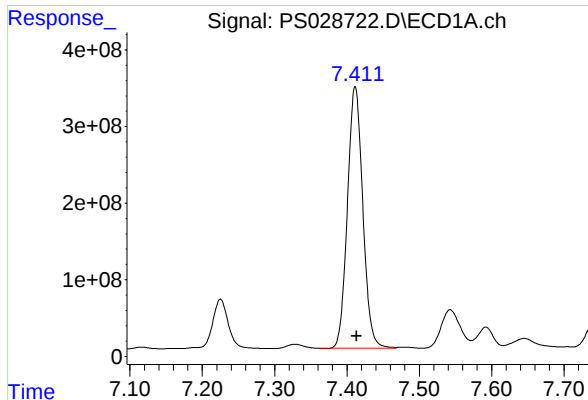
#4 2,4-DCAA

R.T.: 7.225 min
Delta R.T.: 0.000 min
Response: 969058244
Conc: 361.27 ng/ml



#4 2,4-DCAA

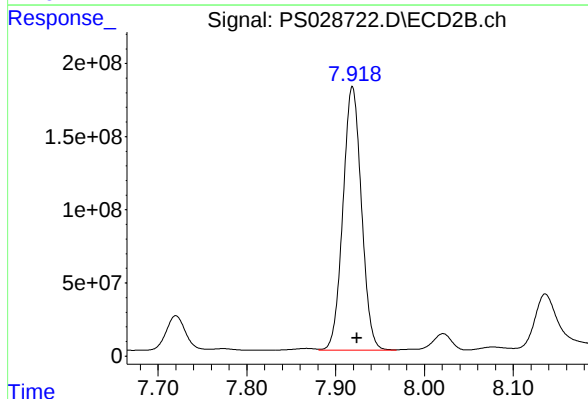
R.T.: 7.720 min
Delta R.T.: -0.004 min
Response: 355457065
Conc: 263.88 ng/ml



#5 DICAMBA

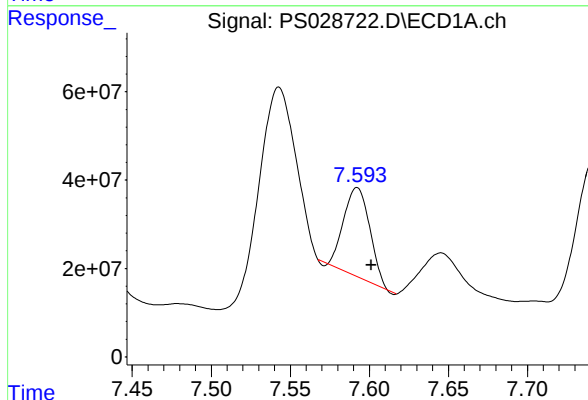
R.T.: 7.411 min
Delta R.T.: -0.002 min
Response: 5042162335
Conc: 439.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MSD



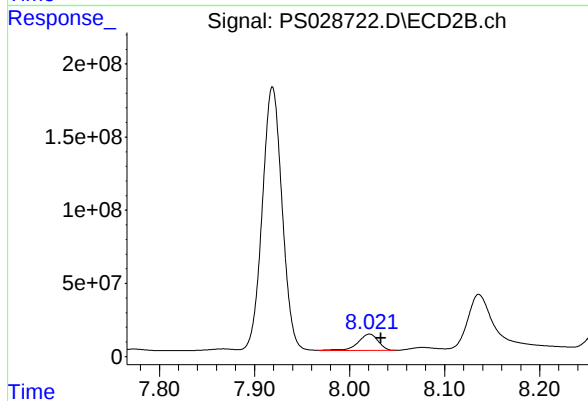
#5 DICAMBA

R.T.: 7.919 min
Delta R.T.: -0.005 min
Response: 2608114704
Conc: 423.66 ng/ml



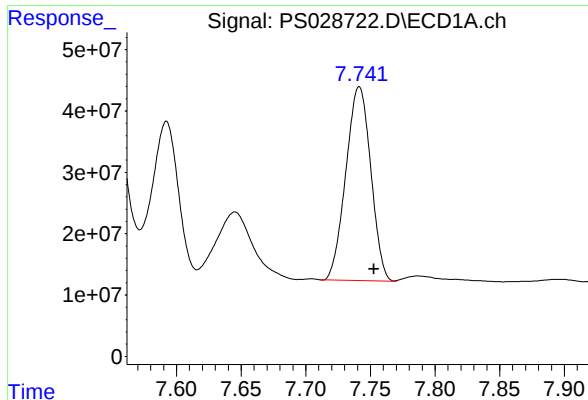
#6 MCPP

R.T.: 7.592 min
Delta R.T.: -0.009 min
Response: 230741633
Conc: 31.62 ug/ml



#6 MCPP

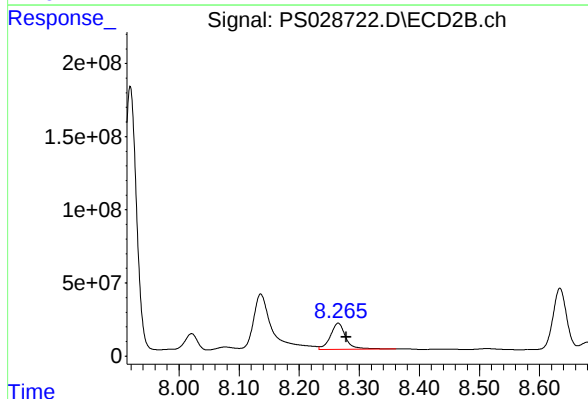
R.T.: 8.021 min
Delta R.T.: -0.012 min
Response: 166128471
Conc: 38.57 ug/ml



#7 MCPA

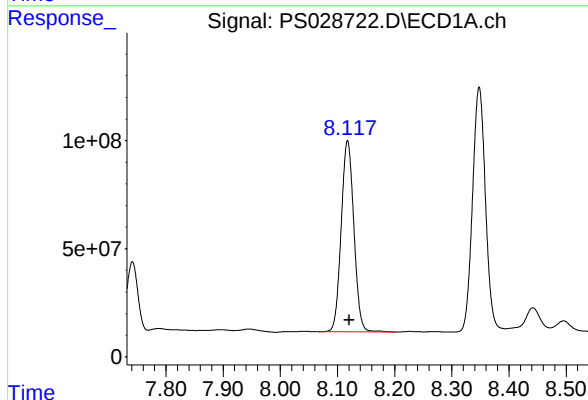
R.T.: 7.741 min
Delta R.T.: -0.011 min
Response: 423761288
Conc: 40.99 ug/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MSD



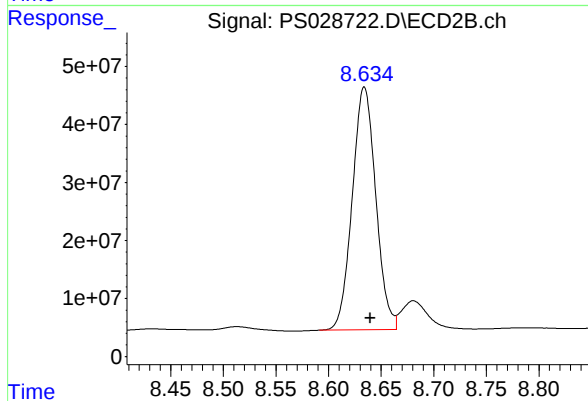
#7 MCPA

R.T.: 8.265 min
Delta R.T.: -0.013 min
Response: 315473506
Conc: 50.83 ug/ml



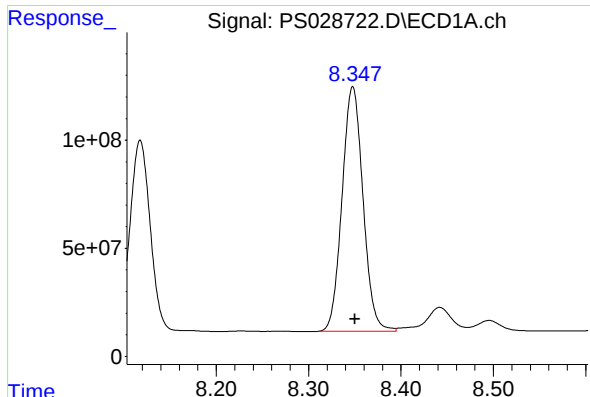
#8 DICHLORPROP

R.T.: 8.118 min
Delta R.T.: -0.003 min
Response: 1359836294
Conc: 436.81 ng/ml



#8 DICHLORPROP

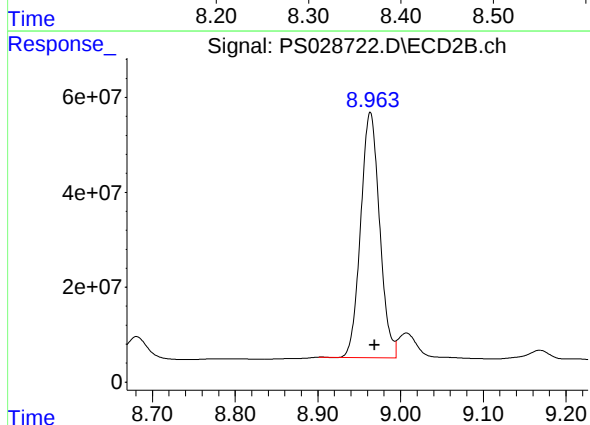
R.T.: 8.634 min
Delta R.T.: -0.006 min
Response: 652078609
Conc: 407.90 ng/ml



#9 2,4-D

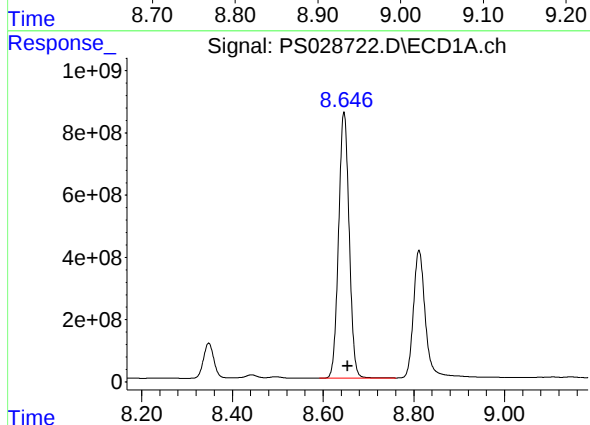
R.T.: 8.348 min
Delta R.T.: -0.002 min
Response: 1782479998
Conc: 528.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MSD



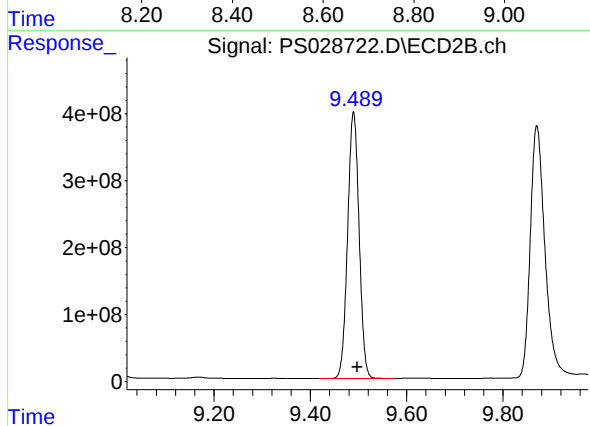
#9 2,4-D

R.T.: 8.963 min
Delta R.T.: -0.005 min
Response: 822260751
Conc: 486.27 ng/ml



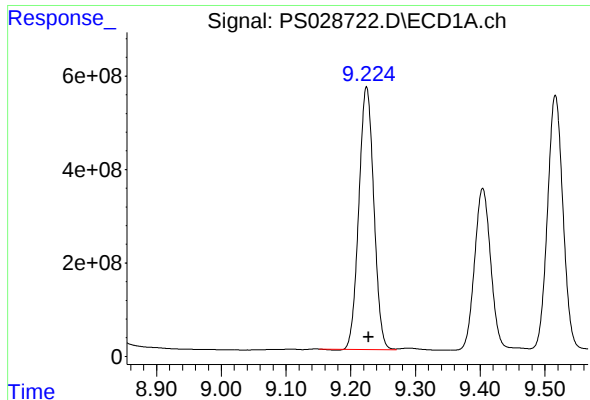
#10 Pentachlorophenol

R.T.: 8.646 min
Delta R.T.: -0.008 min
Response: 13789923060
Conc: 312.75 ng/ml



#10 Pentachlorophenol

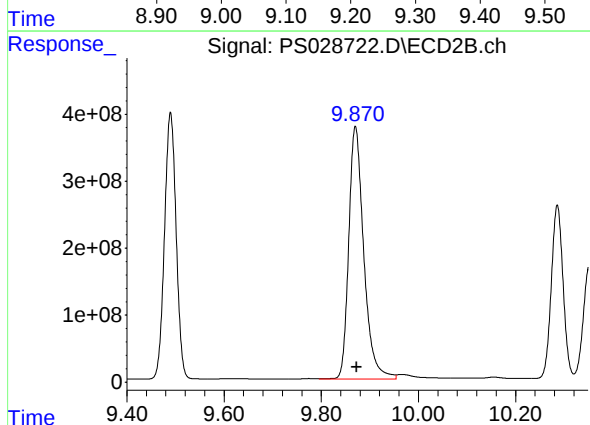
R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 6599326819
Conc: 288.30 ng/ml



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

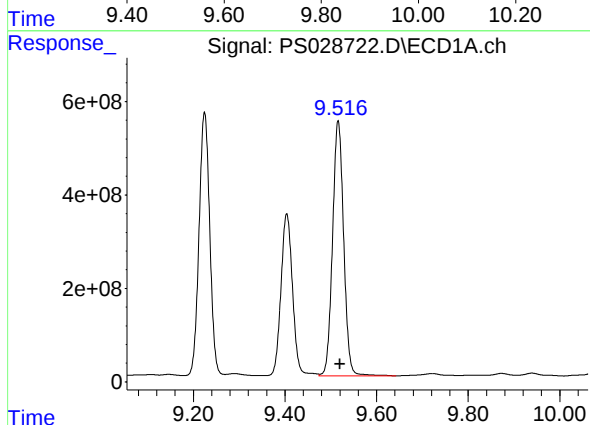
R.T.: 9.224 min
Delta R.T.: -0.003 min
Response: 8997181233
Conc: 492.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MSD



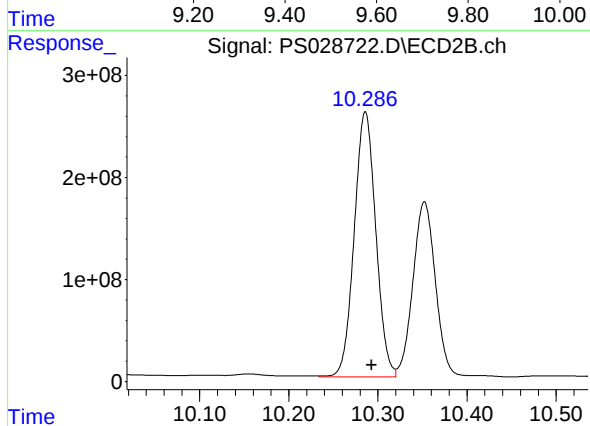
#11 2,4,5-TP (SILVEX)

R.T.: 9.870 min
Delta R.T.: -0.003 min
Response: 8103691835
Conc: 849.22 ng/ml



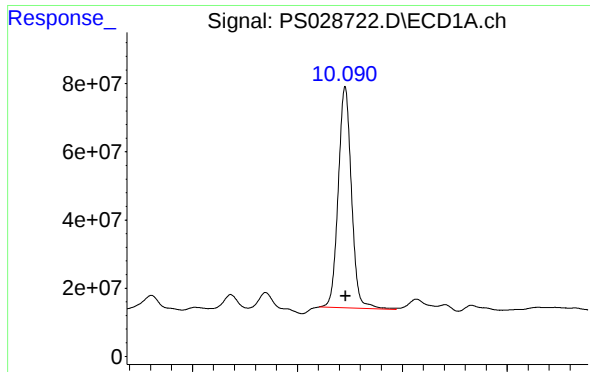
#12 2,4,5-T

R.T.: 9.516 min
Delta R.T.: -0.003 min
Response: 9184651076
Conc: 489.70 ng/ml



#12 2,4,5-T

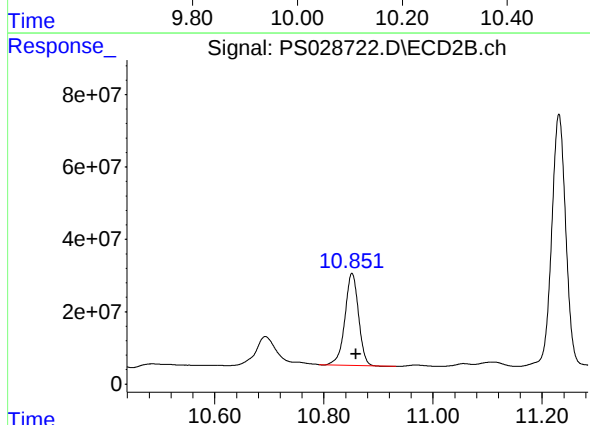
R.T.: 10.286 min
Delta R.T.: -0.007 min
Response: 4374010780
Conc: 469.80 ng/ml



#13 2,4-DB

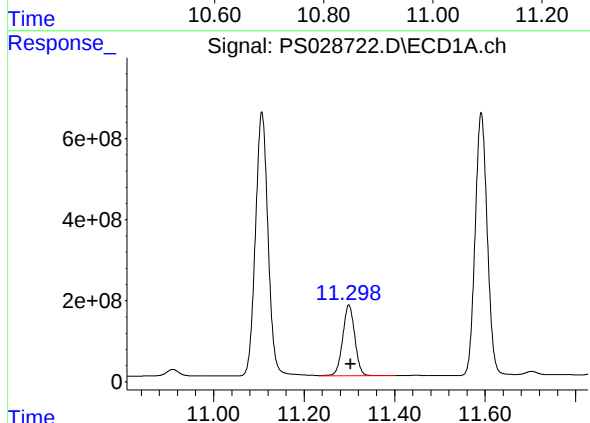
R.T.: 10.091 min
Delta R.T.: -0.001 min
Response: 1135281417
Conc: 320.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MSD



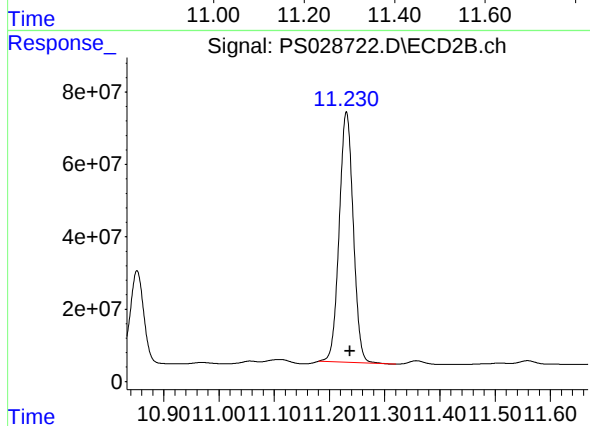
#13 2,4-DB

R.T.: 10.852 min
Delta R.T.: -0.007 min
Response: 439410083
Conc: 383.19 ng/ml



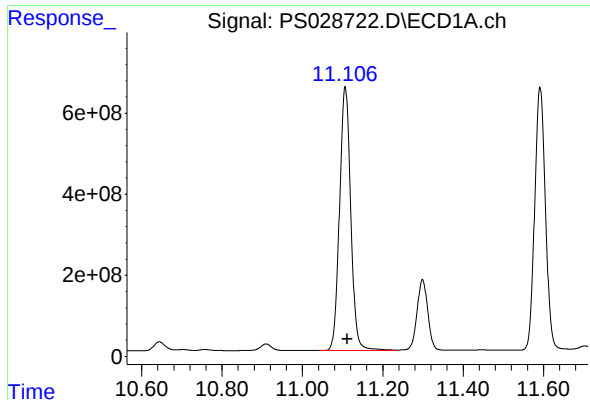
#14 DINOSEB

R.T.: 11.299 min
Delta R.T.: -0.004 min
Response: 3248530968
Conc: 216.19 ng/ml



#14 DINOSEB

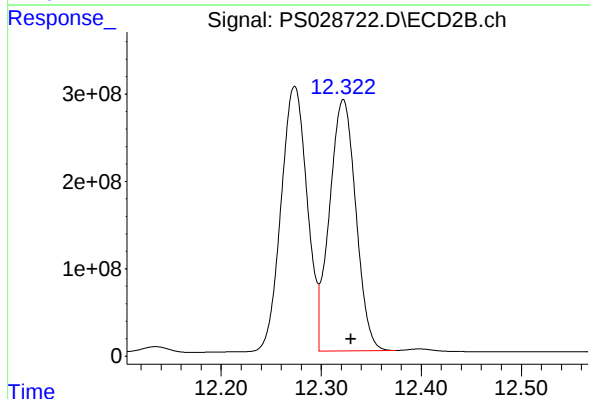
R.T.: 11.231 min
Delta R.T.: -0.006 min
Response: 1219584511
Conc: 194.32 ng/ml



#15 Picloram

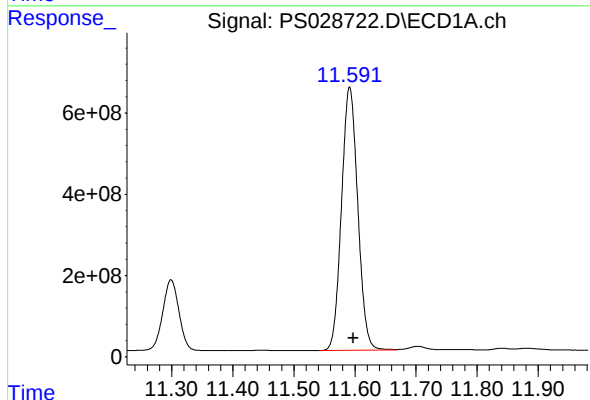
R.T.: 11.107 min
Delta R.T.: -0.005 min
Response: 12596447980
Conc: 423.60 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL2-IDW-SOIL-120424-00-T2MSD



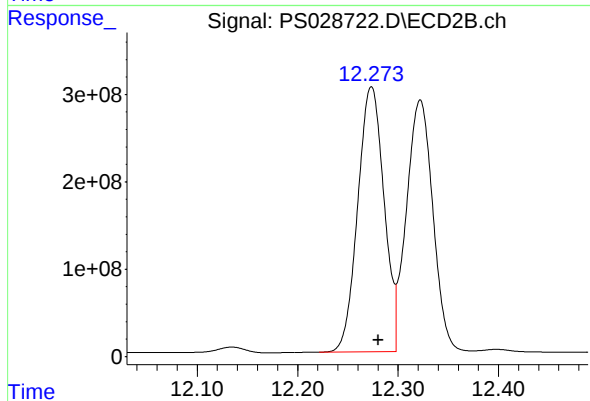
#15 Picloram

R.T.: 12.322 min
Delta R.T.: -0.008 min
Response: 5258849640
Conc: 407.96 ng/ml



#16 DCPA

R.T.: 11.591 min
Delta R.T.: -0.006 min
Response: 11997293396
Conc: 436.34 ng/ml



#16 DCPA

R.T.: 12.273 min
Delta R.T.: -0.007 min
Response: 5511125810
Conc: 496.62 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
 Data File : PS028724.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Dec 2024 18:09
 Operator : AR\AJ
 Sample : PB165455BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB165455BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 22:58:03 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:44:30 2024
 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	7.225	7.720	1570.3E6	607.4E6	585.412	450.901
Target Compounds							
1) T	Dalapon	2.626	2.685	1378.6E6	898.0E6	475.066	411.226
2) T	3,5-DICHL...	6.398	6.677	1835.6E6	829.1E6	479.302	422.143
3) T	4-Nitroph...	7.024	7.247	791.1E6	394.0E6	460.219	431.948
5) T	DICAMBA	7.411	7.918	5530.5E6	2722.8E6	481.731	442.279
6) T	MCPD	7.592	8.020	330.8E6	168.3E6	45.325	39.072
7) T	MCPA	7.741	8.264	477.3E6	240.8E6	46.169	38.797
8) T	DICHLORPROP	8.118	8.633	1505.2E6	699.8E6	483.519	437.782
9) T	2,4-D	8.348	8.963	1622.9E6	742.0E6	481.278	438.797
10) T	Pentachlo...	8.646	9.490	22959.9E6	11108.3E6	520.721	485.272
11) T	2,4,5-TP ...	9.224	9.866	9033.8E6	4519.1E6	494.197	473.579
12) T	2,4,5-T	9.516	10.285	9264.1E6	4350.5E6	493.939	467.281
13) T	2,4-DB	10.088	10.851	1663.2E6	497.0E6	469.614	433.392
14) T	DINOSEB	11.298	11.230	7190.3E6	2836.8E6	478.514	452.002
15) T	Picloram	11.107	12.321	14089.4E6	5789.1E6	473.803	449.088
16) T	DCPA	11.592	12.272	13826.5E6	5401.5E6	502.870	486.745

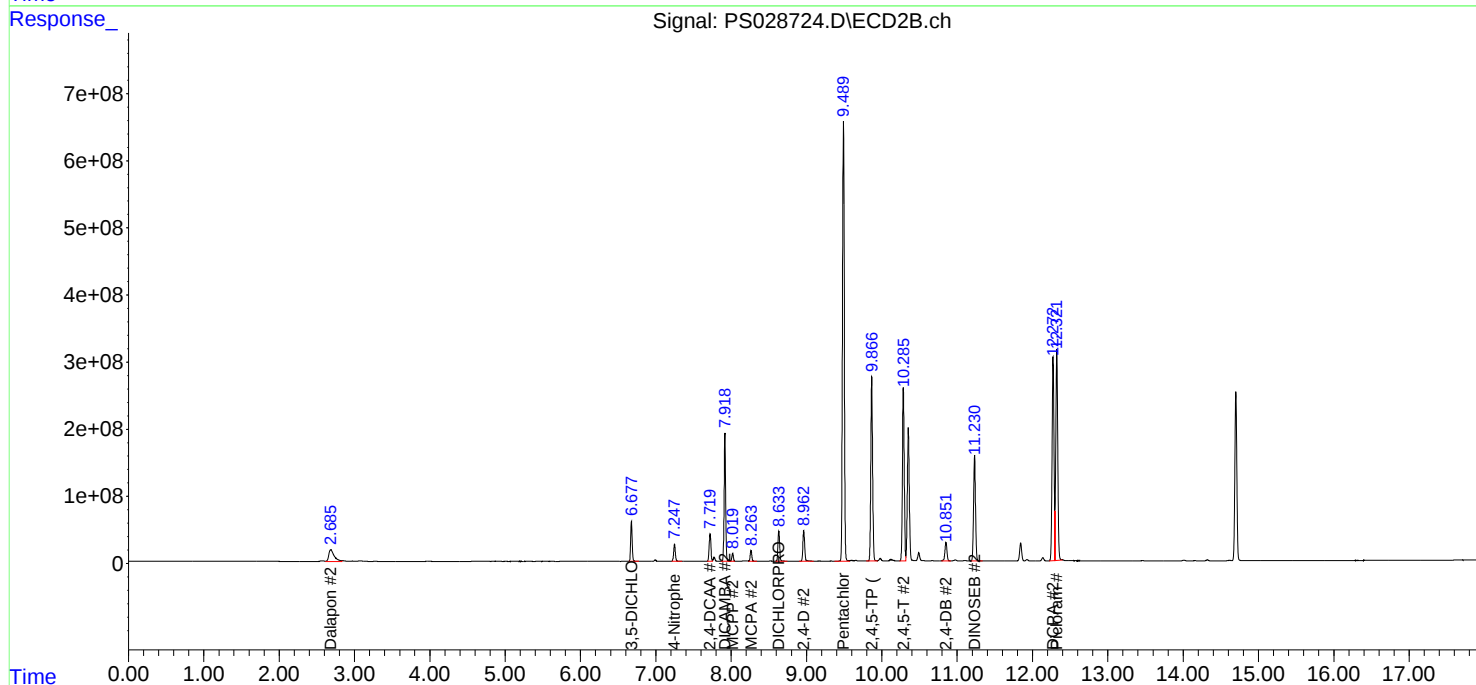
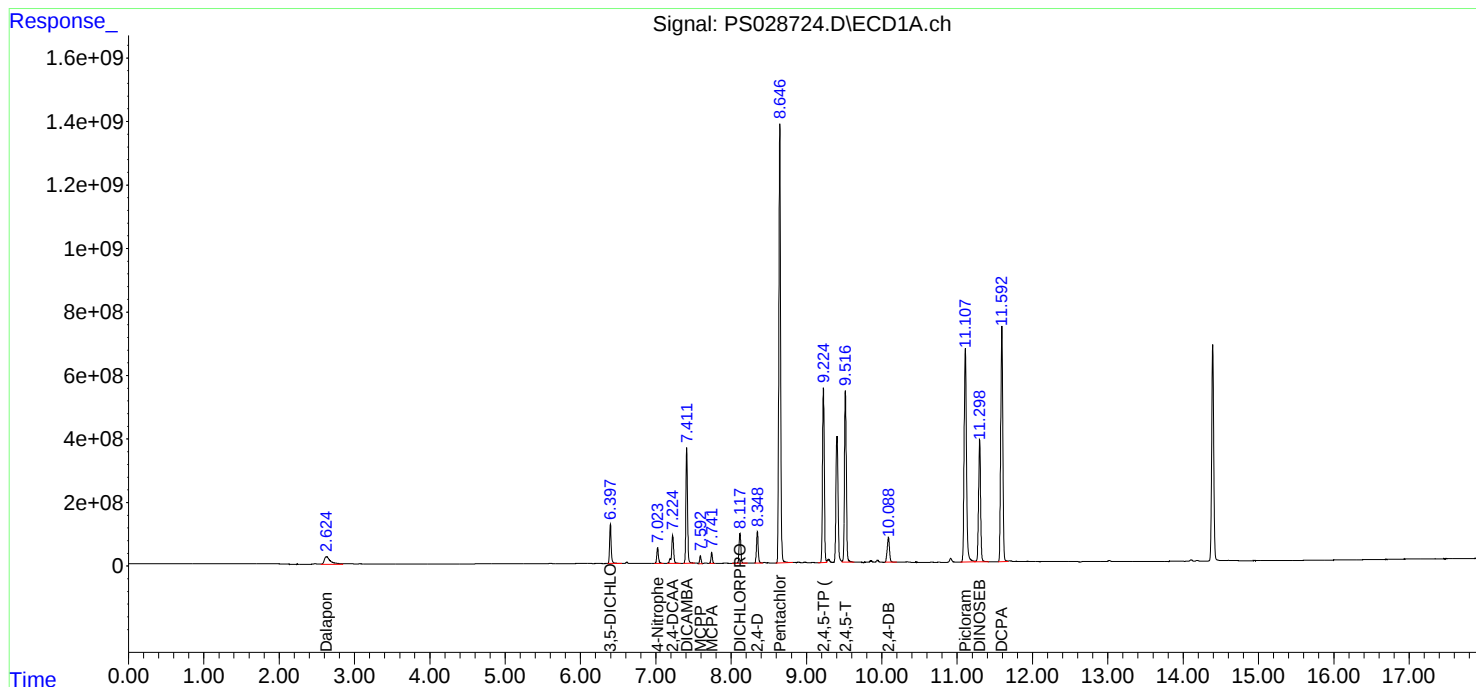
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

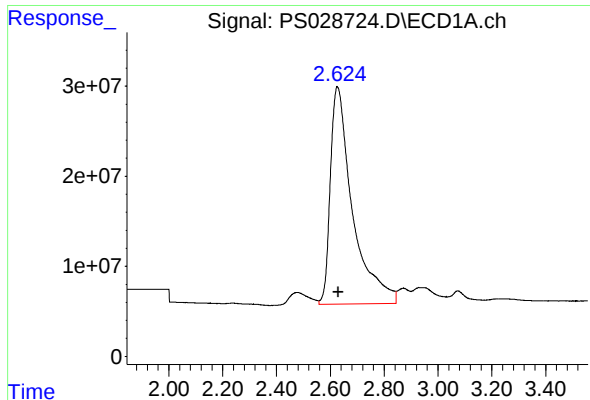
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028724.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 18:09
Operator : AR\AJ
Sample : PB165455BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165455BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:58:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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

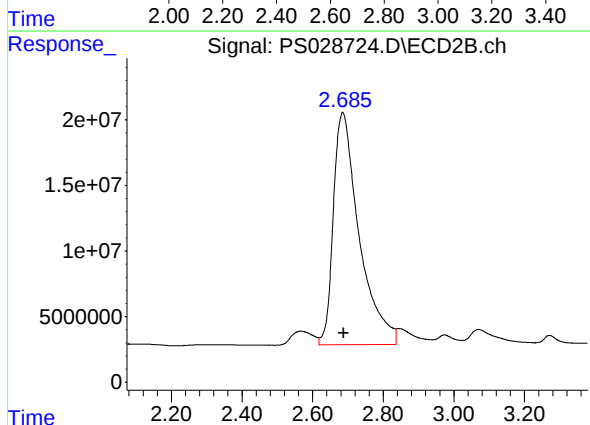




#1 Dalapon

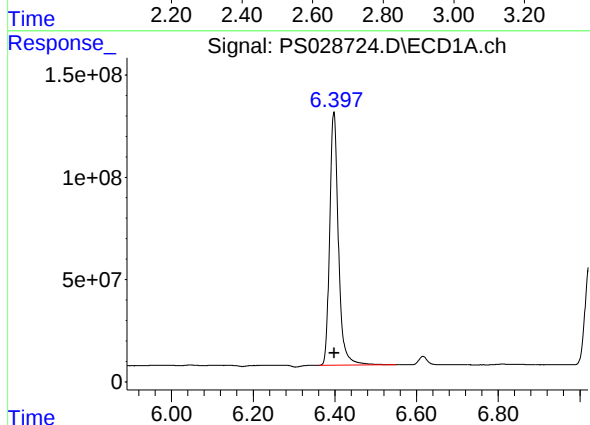
R.T.: 2.626 min
Delta R.T.: -0.004 min
Response: 1378569531
Conc: 475.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS



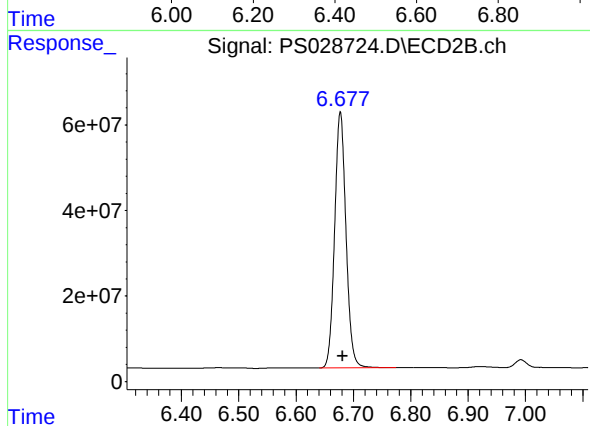
#1 Dalapon

R.T.: 2.685 min
Delta R.T.: -0.003 min
Response: 898040016
Conc: 411.23 ng/ml



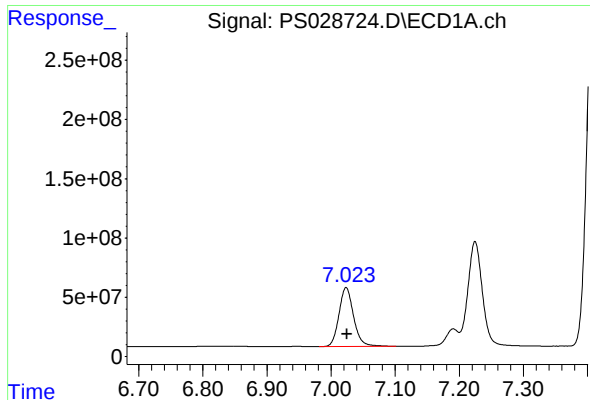
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.398 min
Delta R.T.: -0.001 min
Response: 1835562380
Conc: 479.30 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

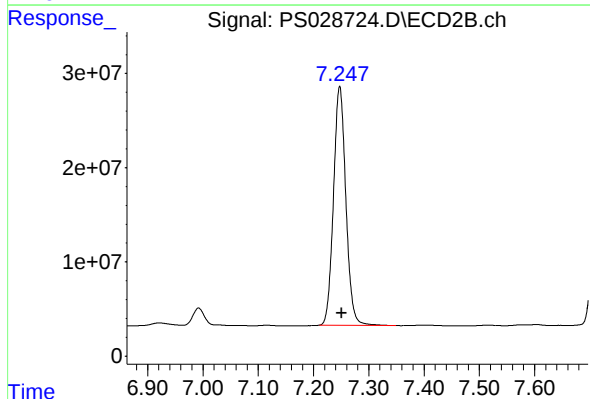
R.T.: 6.677 min
Delta R.T.: -0.004 min
Response: 829126979
Conc: 422.14 ng/ml



#3 4-Nitrophenol

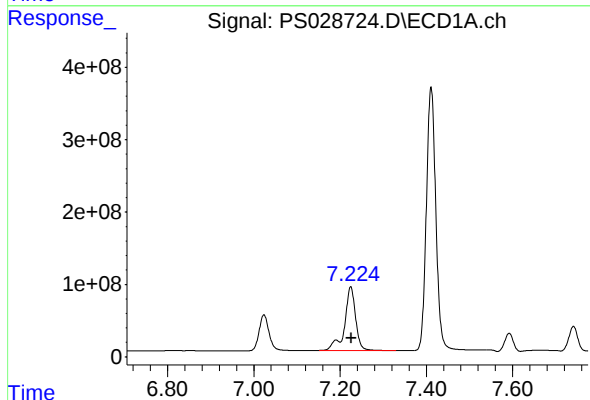
R.T.: 7.024 min
Delta R.T.: -0.001 min
Response: 791104809
Conc: 460.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS



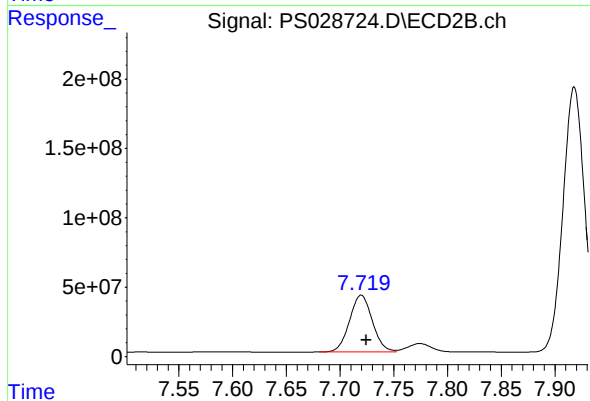
#3 4-Nitrophenol

R.T.: 7.247 min
Delta R.T.: -0.004 min
Response: 393994492
Conc: 431.95 ng/ml



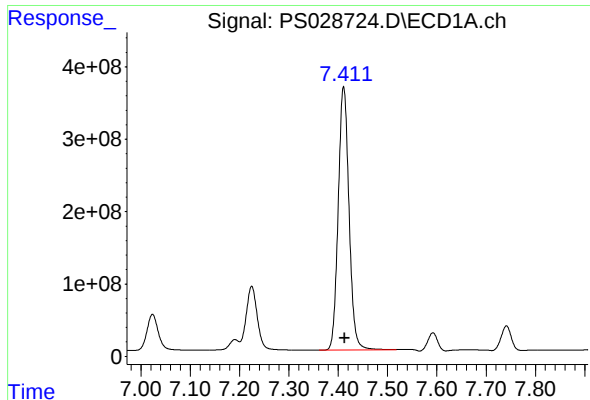
#4 2,4-DCAA

R.T.: 7.225 min
Delta R.T.: -0.001 min
Response: 1570276801
Conc: 585.41 ng/ml



#4 2,4-DCAA

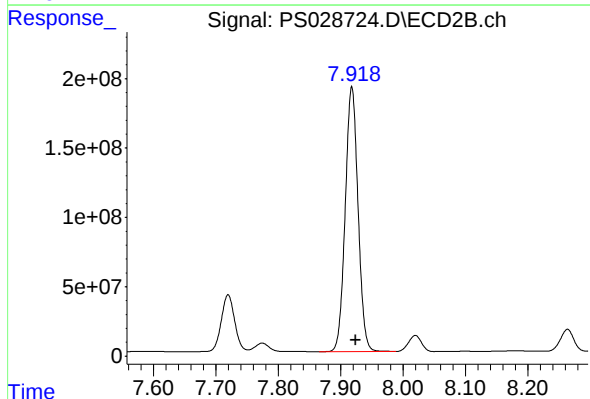
R.T.: 7.720 min
Delta R.T.: -0.005 min
Response: 607377405
Conc: 450.90 ng/ml



#5 DICAMBA

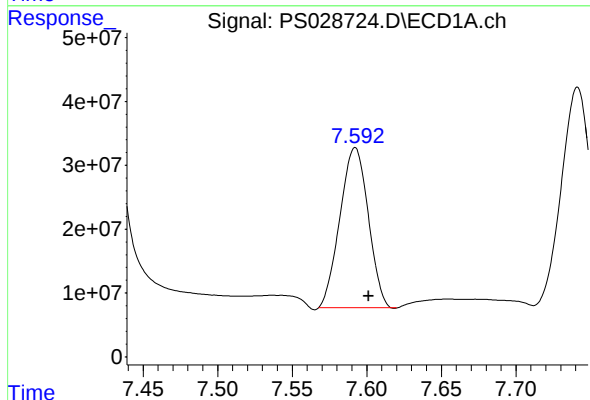
R.T.: 7.411 min
Delta R.T.: -0.002 min
Response: 5530526557
Conc: 481.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS



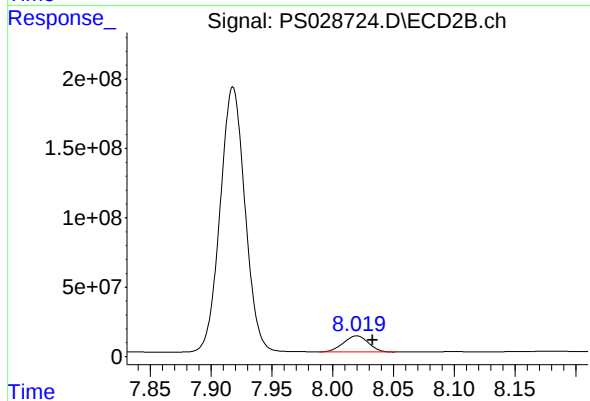
#5 DICAMBA

R.T.: 7.918 min
Delta R.T.: -0.006 min
Response: 2722766902
Conc: 442.28 ng/ml



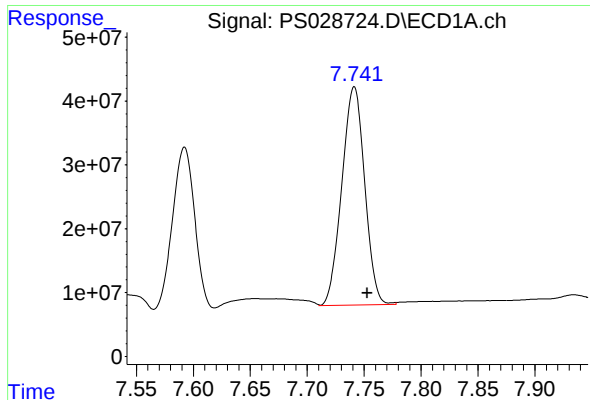
#6 MCPP

R.T.: 7.592 min
Delta R.T.: -0.009 min
Response: 330757073
Conc: 45.32 ug/ml



#6 MCPP

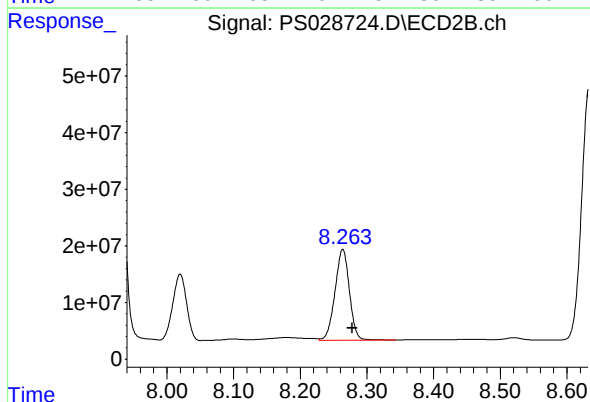
R.T.: 8.020 min
Delta R.T.: -0.013 min
Response: 168303381
Conc: 39.07 ug/ml



#7 MCPA

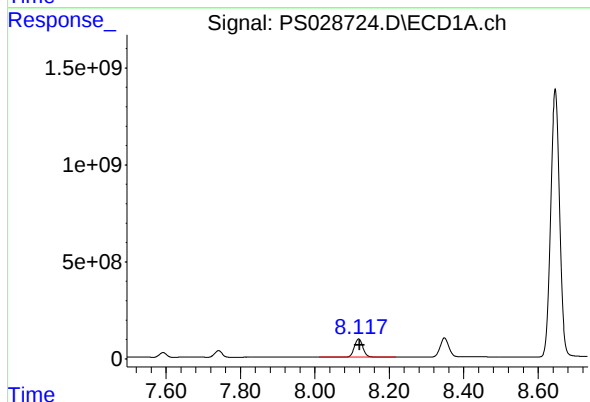
R.T.: 7.741 min
Delta R.T.: -0.012 min
Response: 477336093
Conc: 46.17 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS



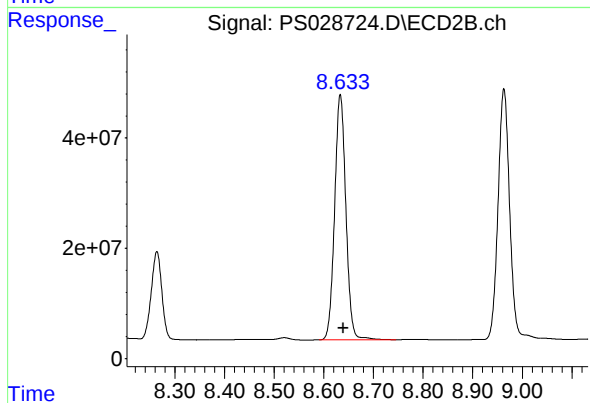
#7 MCPA

R.T.: 8.264 min
Delta R.T.: -0.015 min
Response: 240775922
Conc: 38.80 ug/ml



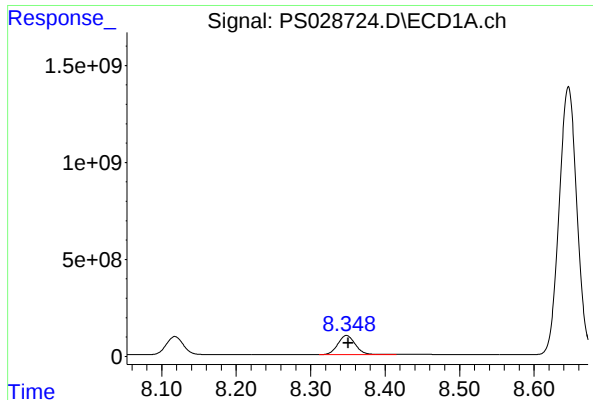
#8 DICHLORPROP

R.T.: 8.118 min
Delta R.T.: -0.003 min
Response: 1505244255
Conc: 483.52 ng/ml



#8 DICHLORPROP

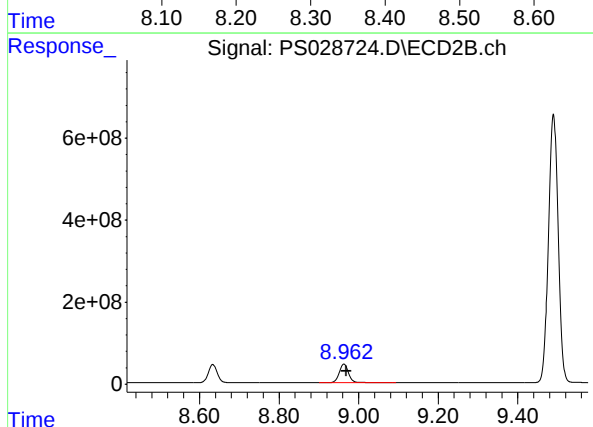
R.T.: 8.633 min
Delta R.T.: -0.006 min
Response: 699846301
Conc: 437.78 ng/ml



#9 2,4-D

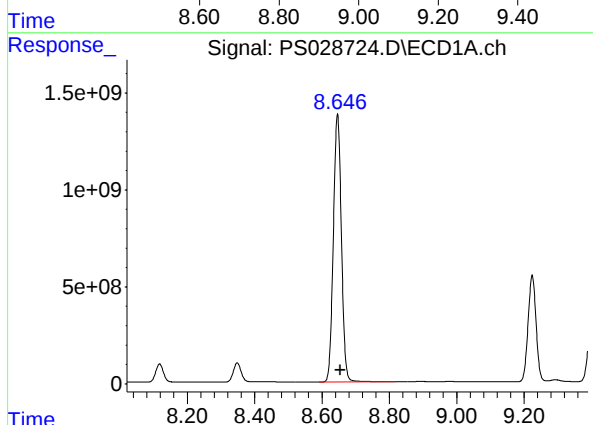
R.T.: 8.348 min
Delta R.T.: -0.002 min
Response: 1622939866
Conc: 481.28 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS



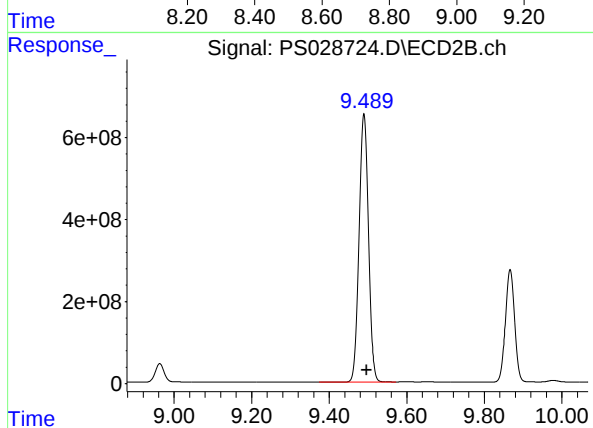
#9 2,4-D

R.T.: 8.963 min
Delta R.T.: -0.006 min
Response: 741992708
Conc: 438.80 ng/ml



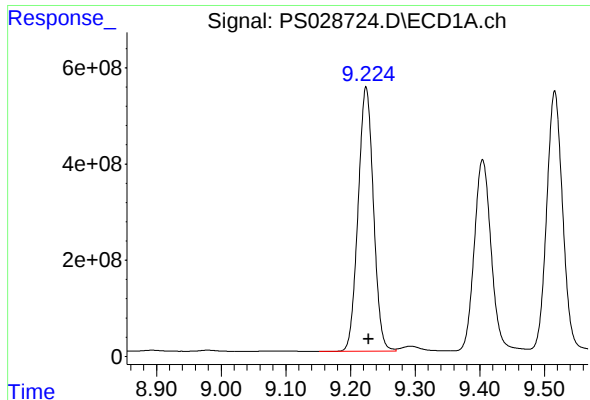
#10 Pentachlorophenol

R.T.: 8.646 min
Delta R.T.: -0.008 min
Response: 22959928970
Conc: 520.72 ng/ml



#10 Pentachlorophenol

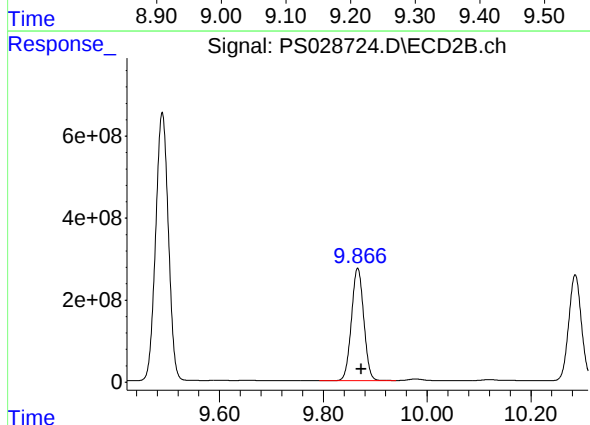
R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 11108305182
Conc: 485.27 ng/ml



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

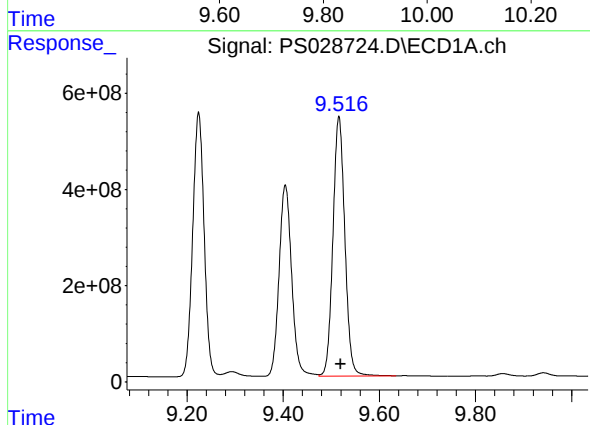
R.T.: 9.224 min
Delta R.T.: -0.004 min
Response: 9033811106
Conc: 494.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS



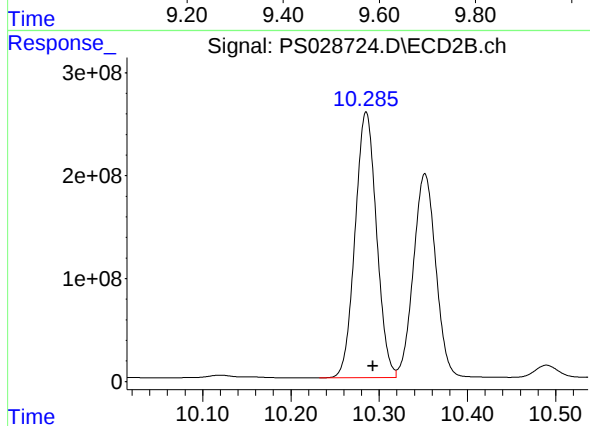
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: -0.007 min
Response: 4519132963
Conc: 473.58 ng/ml



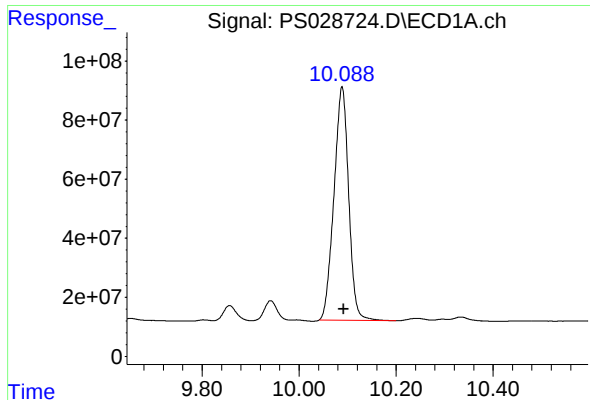
#12 2,4,5-T

R.T.: 9.516 min
Delta R.T.: -0.004 min
Response: 9264070684
Conc: 493.94 ng/ml



#12 2,4,5-T

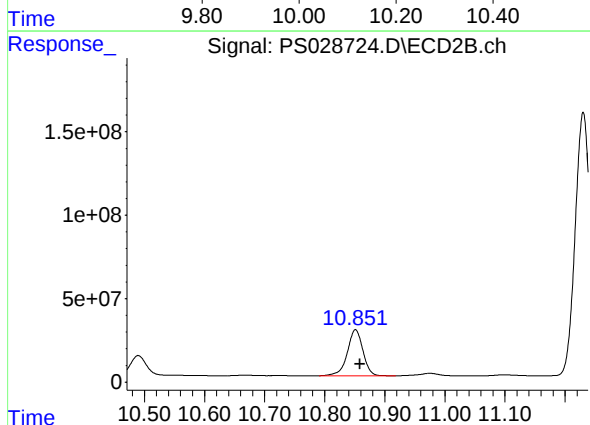
R.T.: 10.285 min
Delta R.T.: -0.008 min
Response: 4350521795
Conc: 467.28 ng/ml



#13 2,4-DB

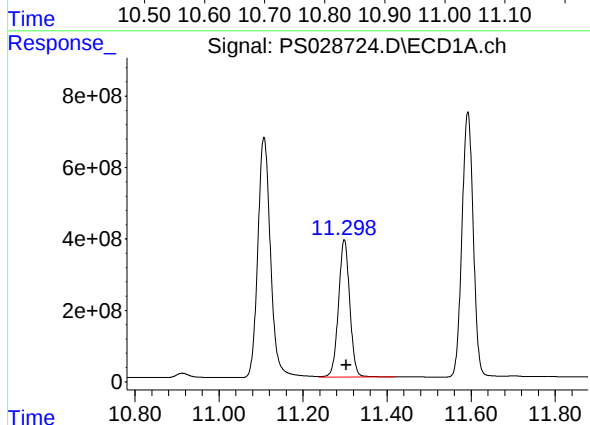
R.T.: 10.088 min
Delta R.T.: -0.004 min
Response: 1663234751
Conc: 469.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS



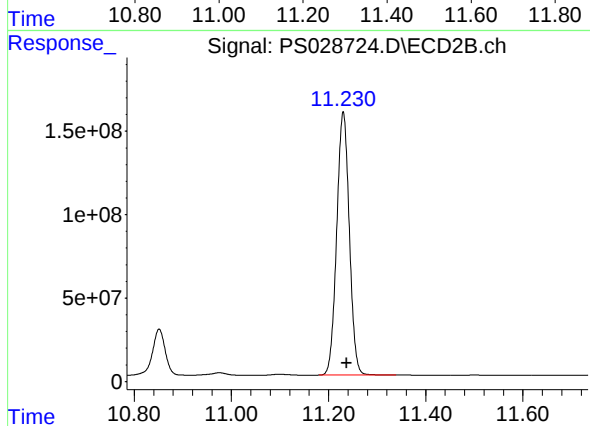
#13 2,4-DB

R.T.: 10.851 min
Delta R.T.: -0.008 min
Response: 496980071
Conc: 433.39 ng/ml



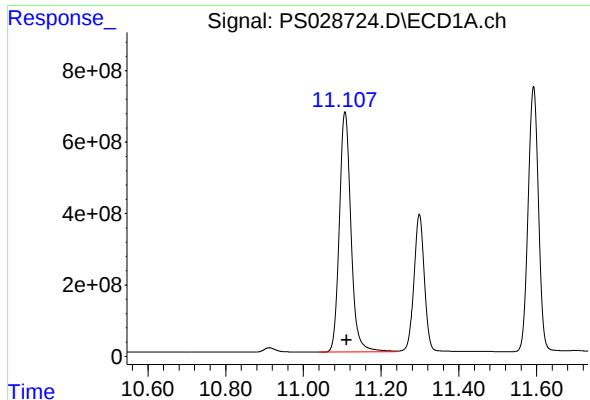
#14 DINOSEB

R.T.: 11.298 min
Delta R.T.: -0.005 min
Response: 7190252817
Conc: 478.51 ng/ml



#14 DINOSEB

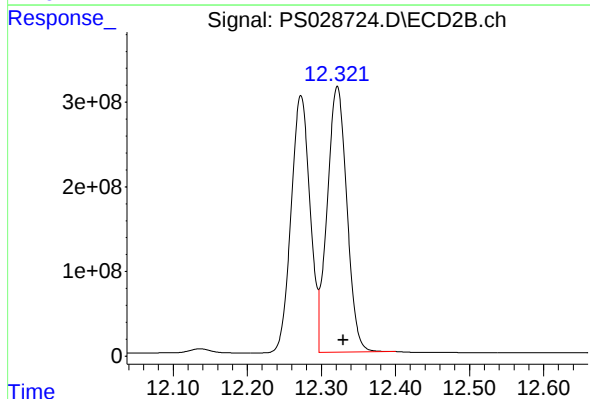
R.T.: 11.230 min
Delta R.T.: -0.007 min
Response: 2836775806
Conc: 452.00 ng/ml



#15 Picloram

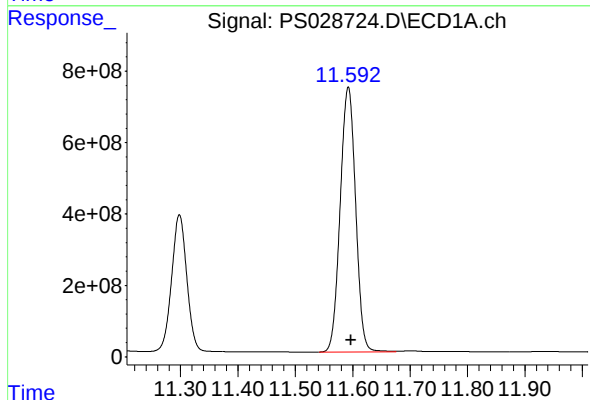
R.T.: 11.107 min
Delta R.T.: -0.004 min
Response: 14089359210
Conc: 473.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165455BS



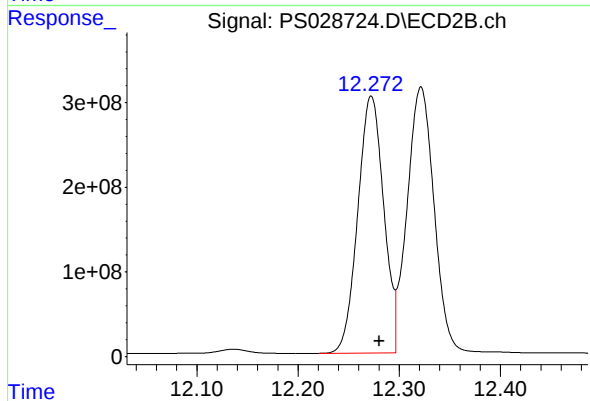
#15 Picloram

R.T.: 12.321 min
Delta R.T.: -0.008 min
Response: 5789055070
Conc: 449.09 ng/ml



#16 DCPA

R.T.: 11.592 min
Delta R.T.: -0.005 min
Response: 13826469563
Conc: 502.87 ng/ml



#16 DCPA

R.T.: 12.272 min
Delta R.T.: -0.008 min
Response: 5401515003
Conc: 486.74 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
 Data File : PS028727.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Dec 2024 19:20
 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: Dec 06 22:58:51 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
 Quant Title : 8080.M
 QLast Update : Tue Nov 26 14:44:30 2024
 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	7.225	7.720	2414.8E6	969.3E6	900.241	719.592
Target Compounds							
1) T	Dalapon	2.627	2.685	2197.3E6	1496.5E6	757.224	685.260
2) T	3,5-DICHL...	6.398	6.678	2838.6E6	1329.6E6	741.204	676.937
3) T	4-Nitroph...	7.023	7.247	1254.6E6	630.9E6	729.840	691.673
5) T	DICAMBA	7.412	7.919	8688.4E6	4491.5E6	756.793	729.590
6) T	MCPD	7.595	8.024	557.8E6	277.4E6	76.431	64.407
7) T	MCPA	7.745	8.267	780.8E6	385.9E6	75.515	62.185
8) T	DICHLORPROP	8.118	8.634	2297.8E6	1120.4E6	738.112	700.880
9) T	2,4-D	8.348	8.963	2470.4E6	1181.3E6	732.595	698.575
10) T	Pentachlo...	8.647	9.490	35078.0E6	17580.0E6	795.553	767.991
11) T	2,4,5-TP ...	9.224	9.866	13903.0E6	7243.4E6	760.568	759.065
12) T	2,4,5-T	9.516	10.285	14234.6E6	6947.4E6	758.956	746.202
13) T	2,4-DB	10.088	10.851	2594.4E6	803.2E6	732.529	700.456
14) T	DINOSEB	11.298	11.230	11171.1E6	4561.6E6	743.442	726.828
15) T	Picloram	11.107	12.321	22194.7E6	9632.2E6	746.372	747.219
16) T	DCPA	11.592	12.272	21195.2E6	8664.5E6	770.870	780.781

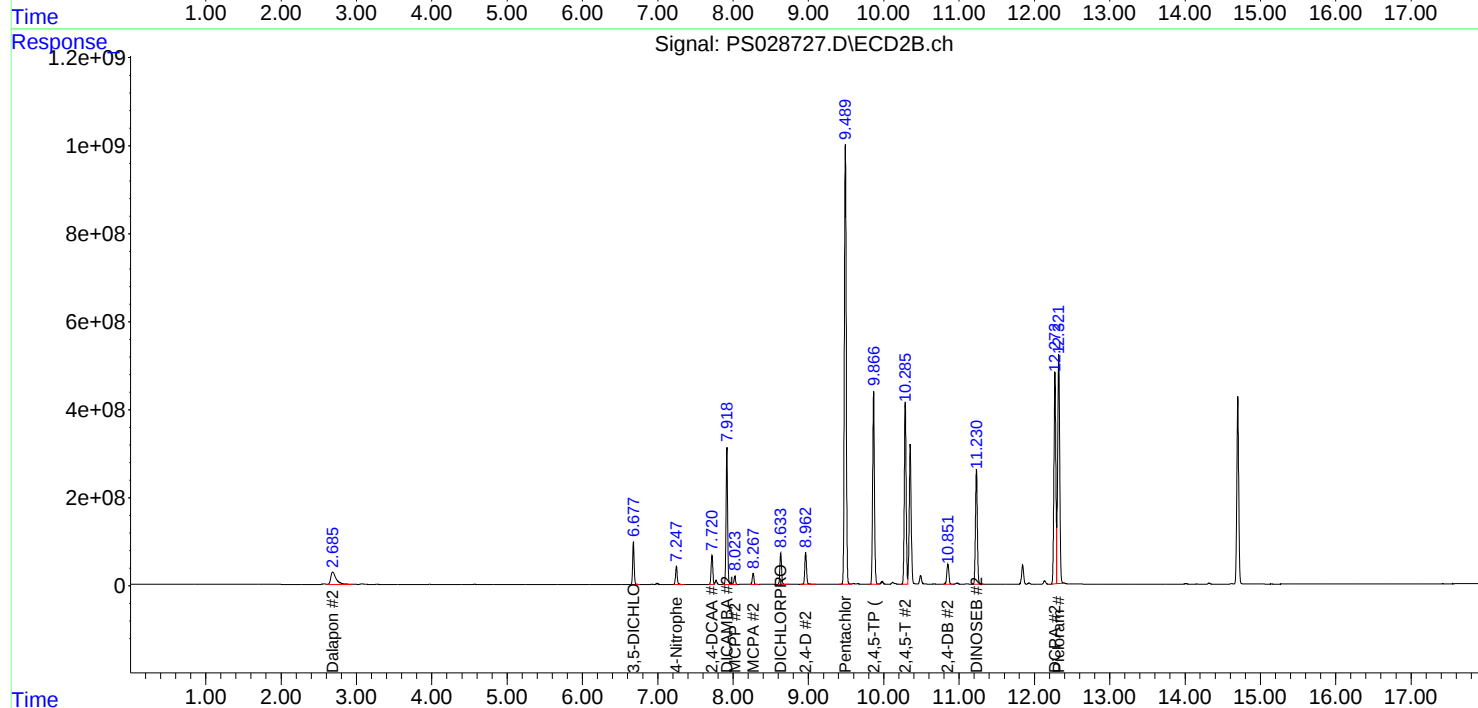
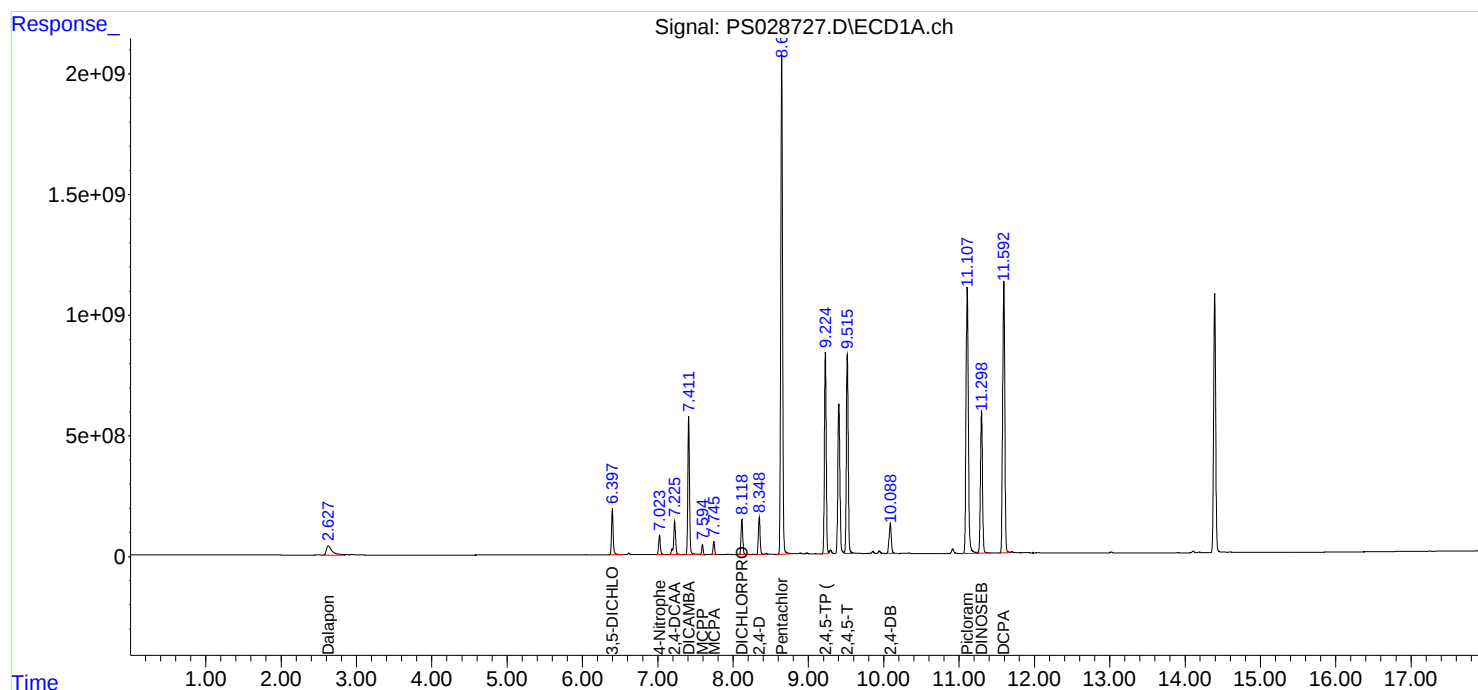
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

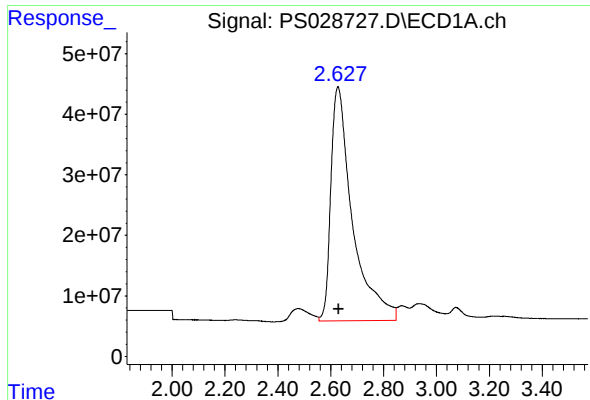
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS120624\
Data File : PS028727.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 19:20
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:58:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS112624.M
Quant Title : 8080.M
QLast Update : Tue Nov 26 14:44:30 2024
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

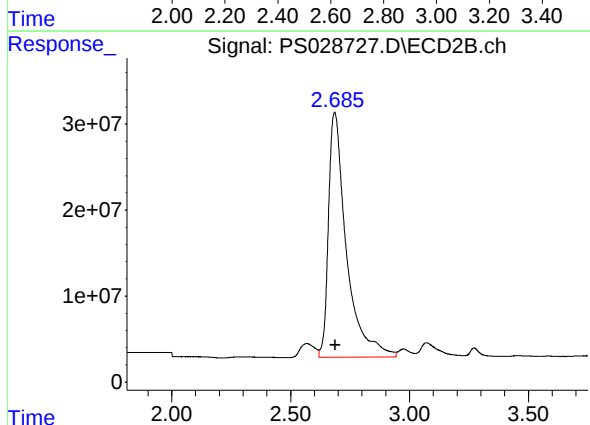




#1 Dalapon

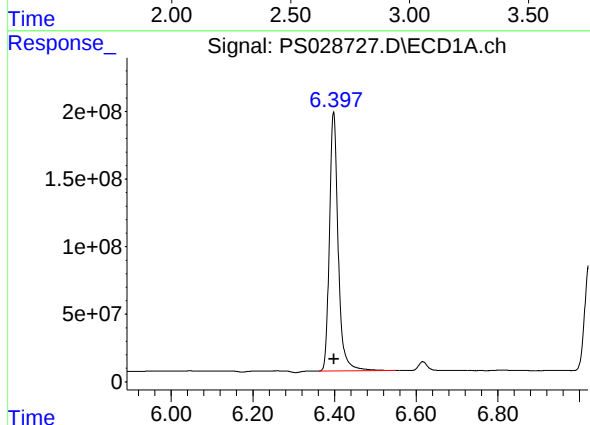
R.T.: 2.627 min
Delta R.T.: -0.003 min
Response: 2197348262
Conc: 757.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



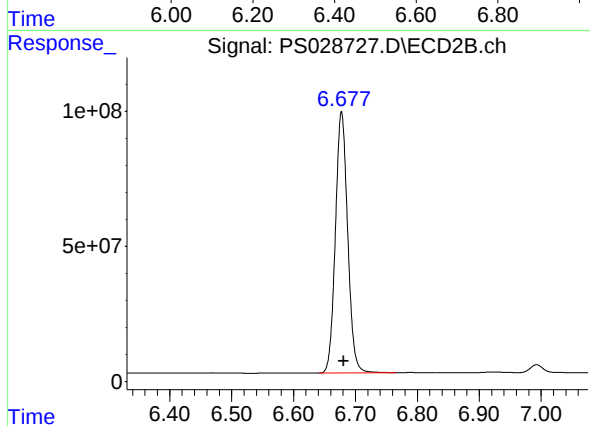
#1 Dalapon

R.T.: 2.685 min
Delta R.T.: -0.003 min
Response: 1496478016
Conc: 685.26 ng/ml



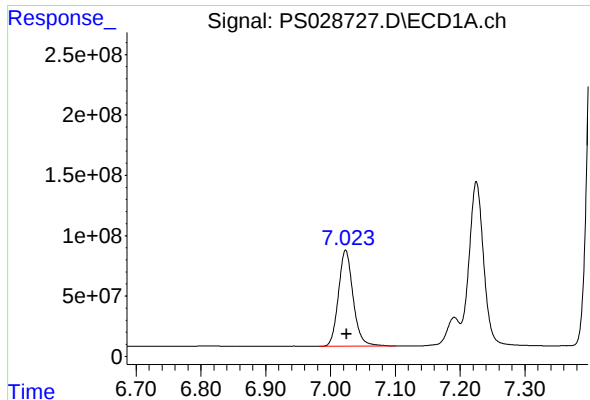
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.398 min
Delta R.T.: -0.001 min
Response: 2838556622
Conc: 741.20 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

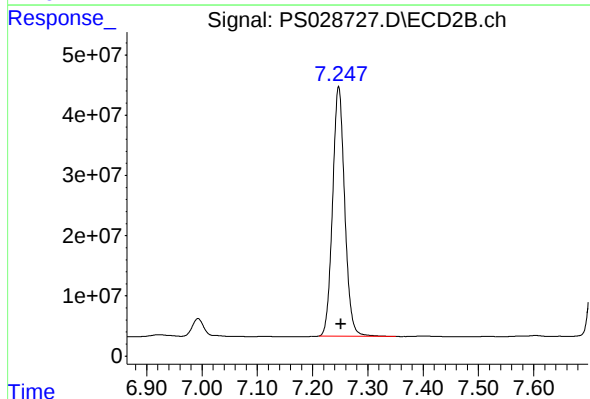
R.T.: 6.678 min
Delta R.T.: -0.004 min
Response: 1329565587
Conc: 676.94 ng/ml



#3 4-Nitrophenol

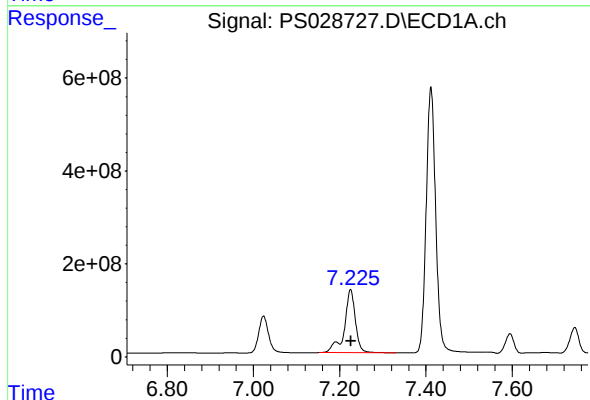
R.T.: 7.023 min
Delta R.T.: -0.001 min
Response: 1254575293
Conc: 729.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



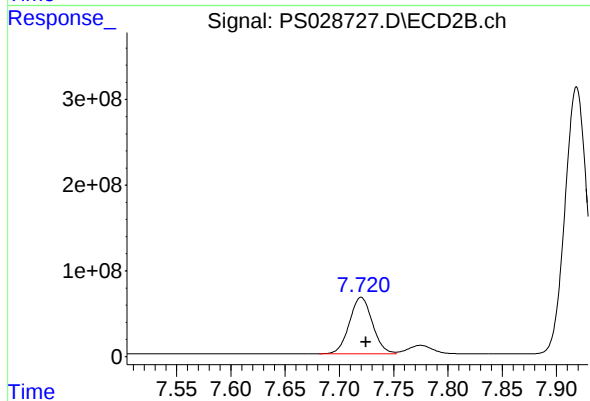
#3 4-Nitrophenol

R.T.: 7.247 min
Delta R.T.: -0.004 min
Response: 630898431
Conc: 691.67 ng/ml



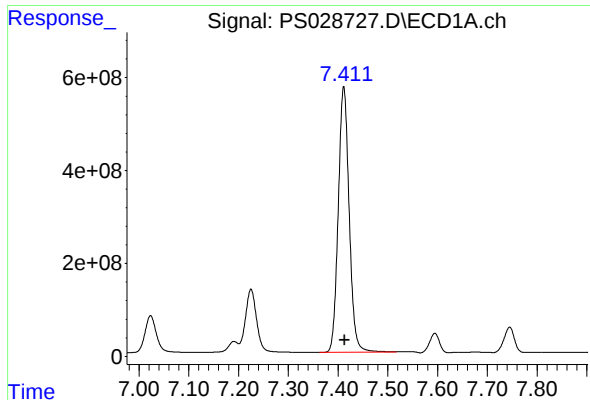
#4 2,4-DCAA

R.T.: 7.225 min
Delta R.T.: 0.000 min
Response: 2414756006
Conc: 900.24 ng/ml



#4 2,4-DCAA

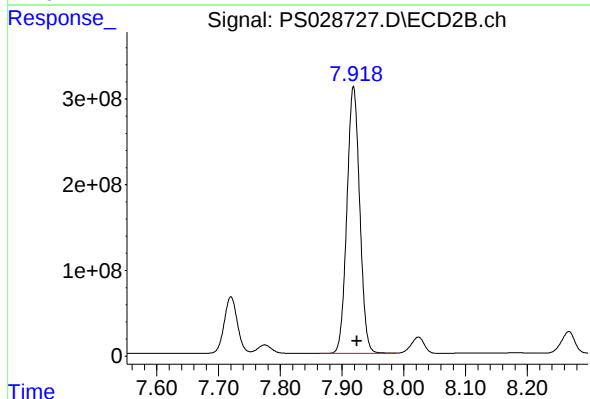
R.T.: 7.720 min
Delta R.T.: -0.004 min
Response: 969311944
Conc: 719.59 ng/ml



#5 DICAMBA

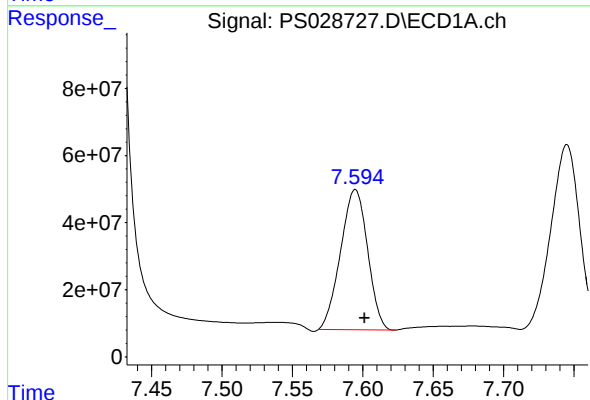
R.T.: 7.412 min
Delta R.T.: -0.002 min
Response: 8688389877
Conc: 756.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



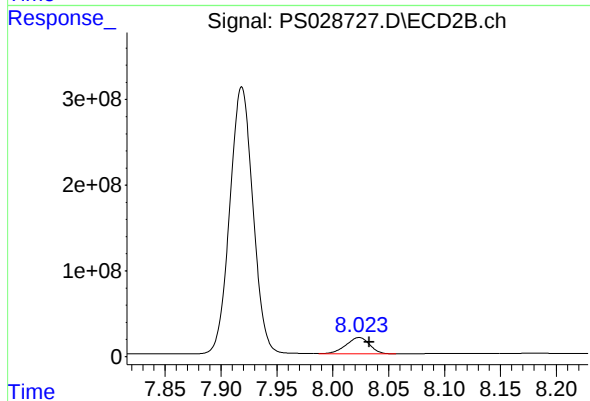
#5 DICAMBA

R.T.: 7.919 min
Delta R.T.: -0.005 min
Response: 4491510600
Conc: 729.59 ng/ml



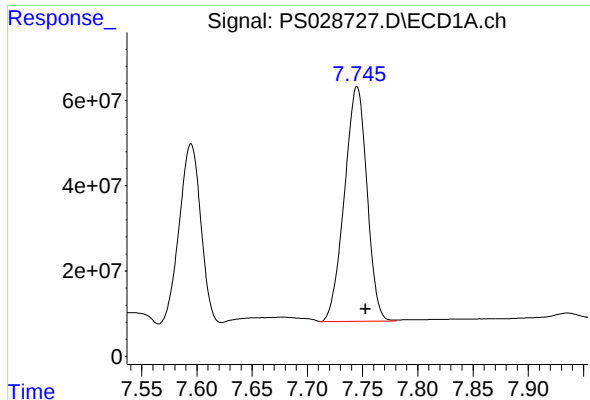
#6 MCPP

R.T.: 7.595 min
Delta R.T.: -0.007 min
Response: 557752733
Conc: 76.43 ug/ml



#6 MCPP

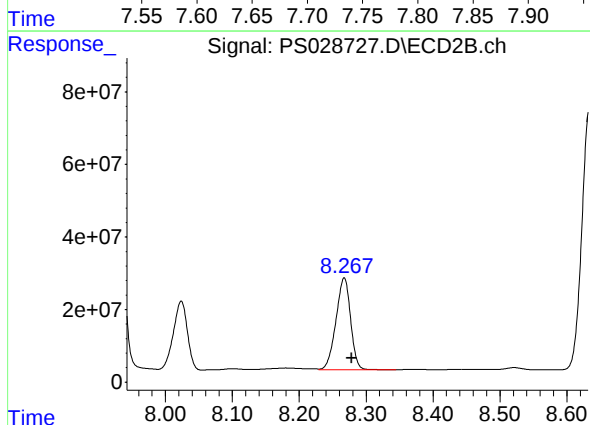
R.T.: 8.024 min
Delta R.T.: -0.009 min
Response: 277437294
Conc: 64.41 ug/ml



#7 MCPA

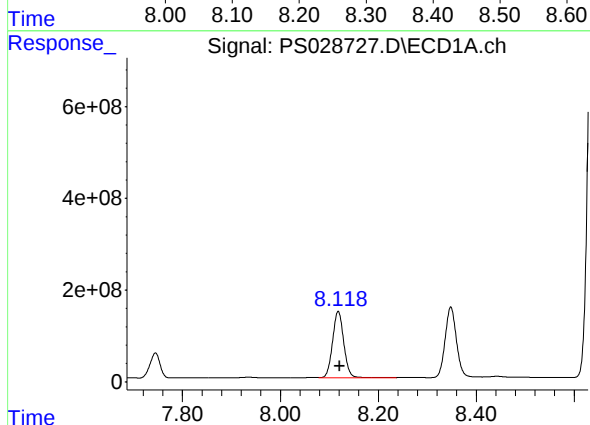
R.T.: 7.745 min
Delta R.T.: -0.008 min
Response: 780754232
Conc: 75.52 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



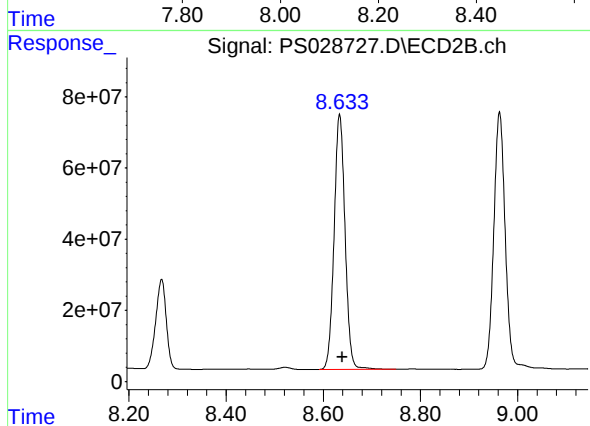
#7 MCPA

R.T.: 8.267 min
Delta R.T.: -0.011 min
Response: 385921608
Conc: 62.18 ug/ml



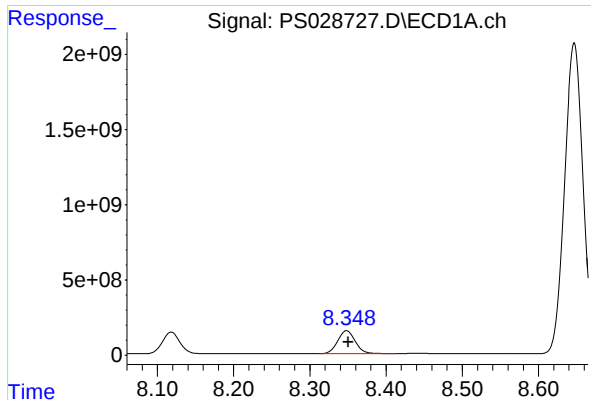
#8 DICHLORPROP

R.T.: 8.118 min
Delta R.T.: -0.003 min
Response: 2297818909
Conc: 738.11 ng/ml



#8 DICHLORPROP

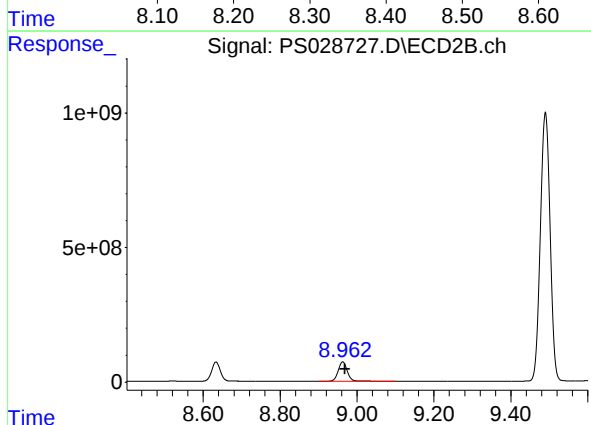
R.T.: 8.634 min
Delta R.T.: -0.006 min
Response: 1120438972
Conc: 700.88 ng/ml



#9 2,4-D

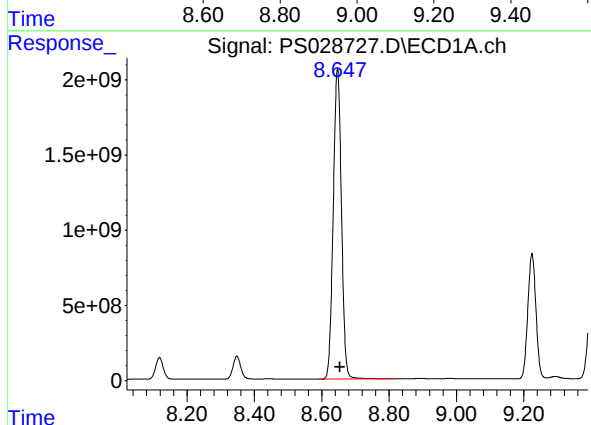
R.T.: 8.348 min
Delta R.T.: -0.002 min
Response: 2470418819
Conc: 732.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



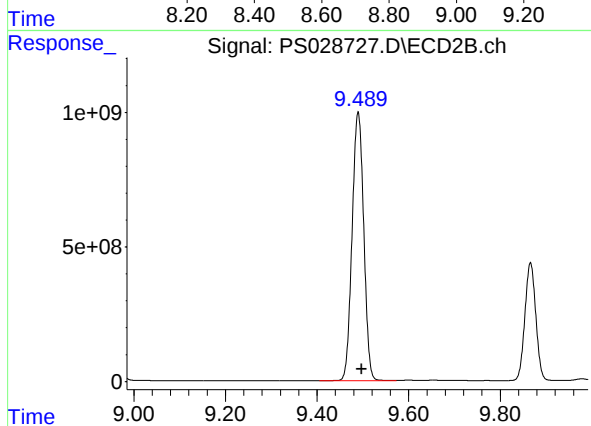
#9 2,4-D

R.T.: 8.963 min
Delta R.T.: -0.006 min
Response: 1181268383
Conc: 698.57 ng/ml



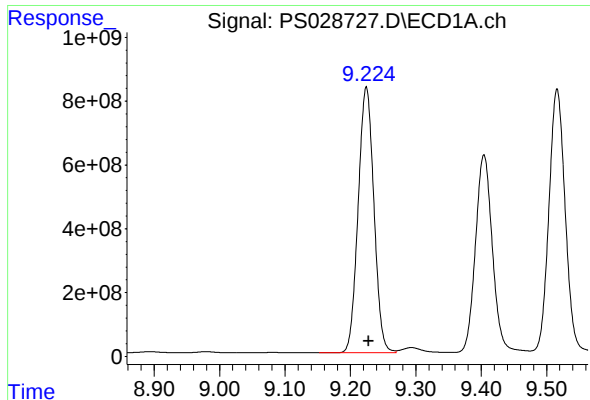
#10 Pentachlorophenol

R.T.: 8.647 min
Delta R.T.: -0.007 min
Response: 35078008420
Conc: 795.55 ng/ml



#10 Pentachlorophenol

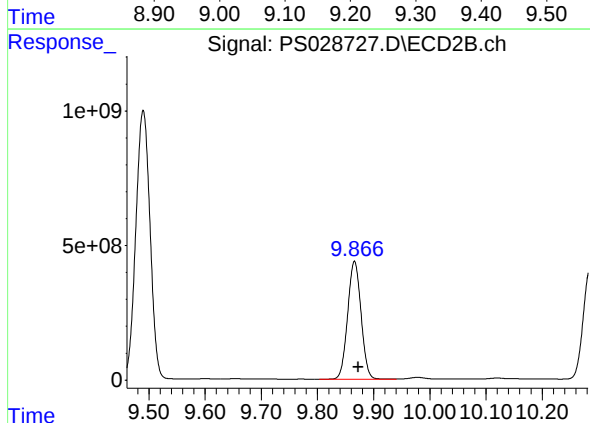
R.T.: 9.490 min
Delta R.T.: -0.007 min
Response: 17579986197
Conc: 767.99 ng/ml



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

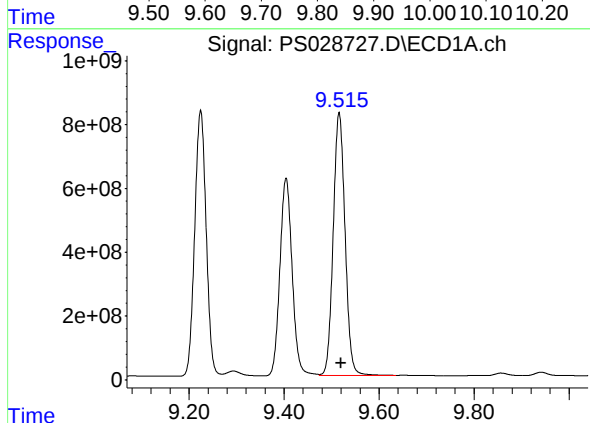
R.T.: 9.224 min
Delta R.T.: -0.004 min
Response: 13903010338
Conc: 760.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



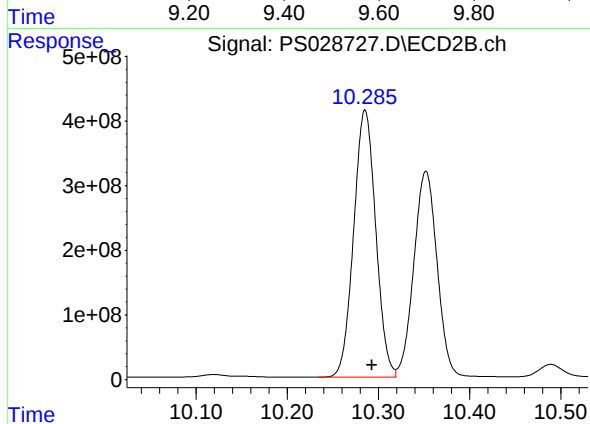
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: -0.007 min
Response: 7243393263
Conc: 759.07 ng/ml



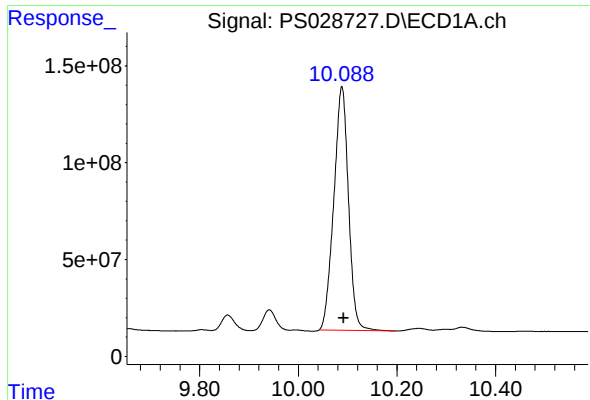
#12 2,4,5-T

R.T.: 9.516 min
Delta R.T.: -0.004 min
Response: 14234598972
Conc: 758.96 ng/ml



#12 2,4,5-T

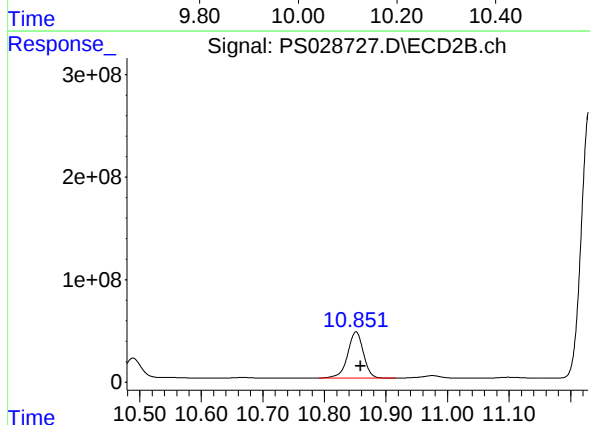
R.T.: 10.285 min
Delta R.T.: -0.007 min
Response: 6947358251
Conc: 746.20 ng/ml



#13 2,4-DB

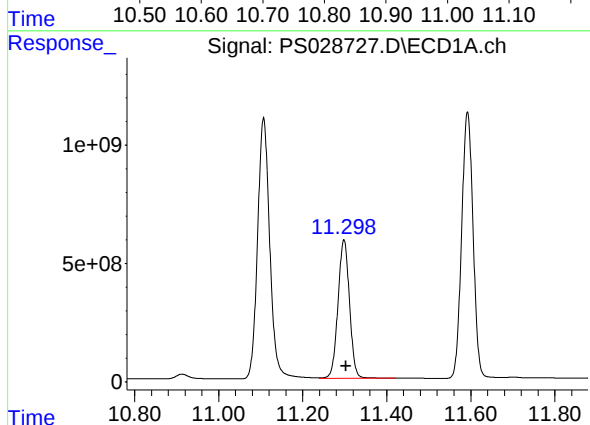
R.T.: 10.088 min
Delta R.T.: -0.004 min
Response: 2594402842
Conc: 732.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



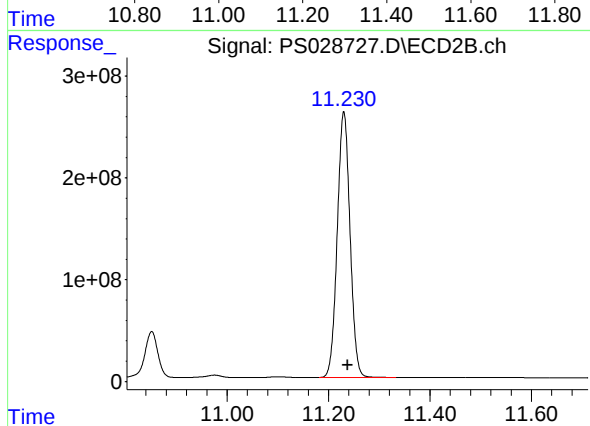
#13 2,4-DB

R.T.: 10.851 min
Delta R.T.: -0.008 min
Response: 803227750
Conc: 700.46 ng/ml



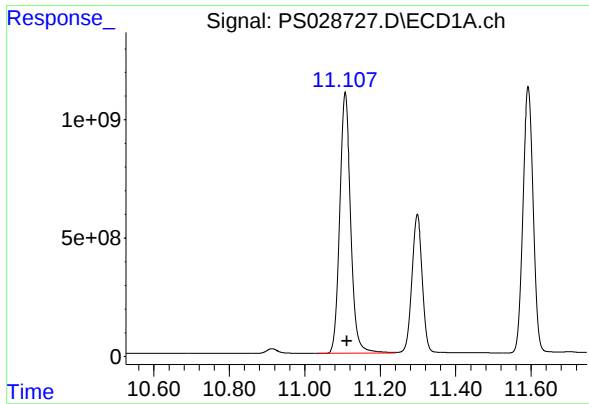
#14 DINOSEB

R.T.: 11.298 min
Delta R.T.: -0.005 min
Response: 11171132487
Conc: 743.44 ng/ml



#14 DINOSEB

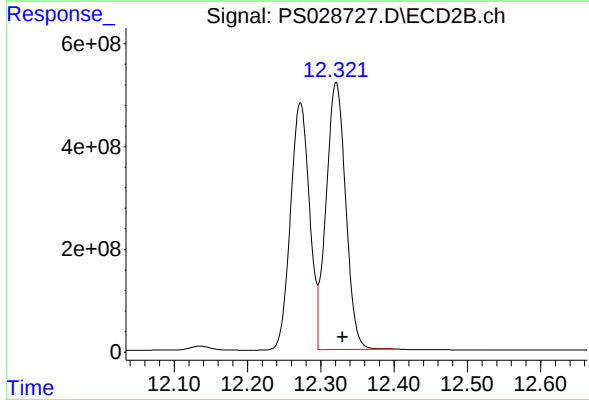
R.T.: 11.230 min
Delta R.T.: -0.007 min
Response: 4561587819
Conc: 726.83 ng/ml



#15 Picloram

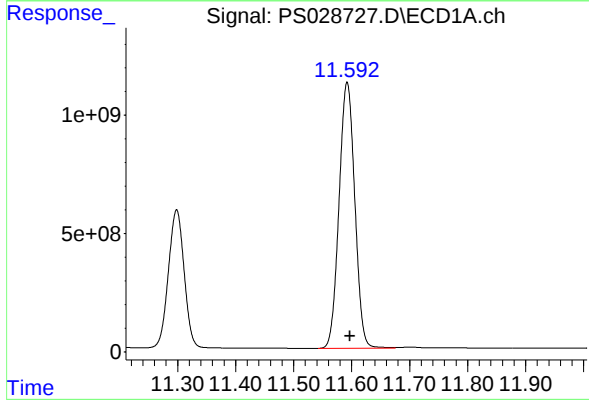
R.T.: 11.107 min
Delta R.T.: -0.005 min
Response: 22194700546
Conc: 746.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



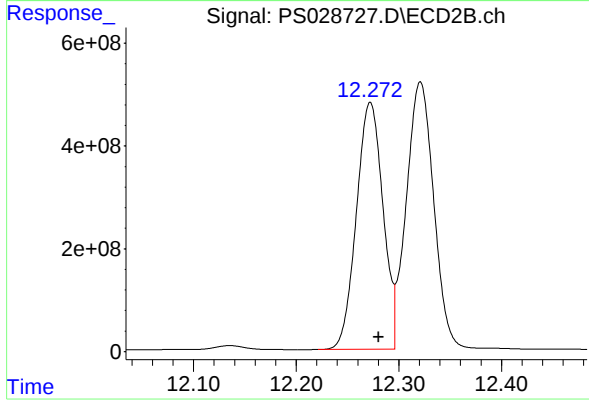
#15 Picloram

R.T.: 12.321 min
Delta R.T.: -0.009 min
Response: 9632168909
Conc: 747.22 ng/ml



#16 DCPA

R.T.: 11.592 min
Delta R.T.: -0.005 min
Response: 21195180856
Conc: 770.87 ng/ml



#16 DCPA

R.T.: 12.272 min
Delta R.T.: -0.008 min
Response: 8664497656
Conc: 780.78 ng/ml