

DATA PACKAGE
GC SEMI-VOLATILES

PROJECT NAME : R36704

TETRA TECH, EMI
240 Continental Drive, Suite 200

Newark, DE - 19713
Phone No: 302-738-7551

ORDER ID : P4593
ATTENTION : Ava Heiss



Laboratory Certification ID # 20012



1) 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 Herbicide	13
9.1) Deuterated Monitoring Compound Summary	14
9.2) LCS/LCSD Summary	15
9.3) Method Blank Summary	17
10) Sample Data	18
10.1) C0PI1	19
10.2) C0PI5	23
11) Calibration Data Summary	27
11.1) Initial Calibration Data	28
11.1.1) PS103124	28
11.1.2) PS110624	92
11.2) Continued Calibration Data	156
11.2.1) PS028146.D	156
11.2.2) PS028158.D	170
11.2.3) PS028168.D	184
11.2.4) PS028284.D	198
11.2.5) PS028297.D	212
11.3) Analytical Seq	226
12) Compound Detection Summary	228
13) QC Sample Data	230
13.1) Method Blank Data	231
13.2) PIBLK Data	235
13.3) LCS Data	263
13.4) LCSD Data	274
14) Manual Integration	285
15) Analytical Runlogs	288
16) Extraction Logs	305

Table Of Contents for P4593

16.1) PB164494.pdf	305
16.2) PB164494IC.pdf	307
17) Standard Prep Logs	308
18) Shipping Document	366
18.1) Chain Of Custody	367
18.2) Lab Certificate	368

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

Cover Page

Order ID : P4593

Project ID : R36704

Client : Tetra Tech, EMI

Lab Sample Number

P4593-01
P4593-02

Client Sample Number

C0PI1
C0PI5

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 : N. N. Pandya

APPROVED

Date: 11/8/2024
By Nimisha Pandya, QA/QC Supervisor at 10:01 am, Nov 11, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech, EMI

Project Name: R36704

Project # N/A

Chemtech Project # P4593

Test Name: Herbicide

A. Number of Samples and Date of Receipt:

2 Water samples were received on 10/26/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Herbicide. This data package contains results for 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 um df, Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324. The analysis of Herbicides was based on method 8151A and extraction was done based on method 3510.

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 RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate 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:

F. 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



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

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 N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:01 am, Nov 11, 2024

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

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: P4593

MATRIX: Water

METHOD: 8151A/3510

	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 Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . The RPD met criteria .			✓
7. Retention Time Shift Meet Criteria (if applicable) Comments:			✓
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.			✓



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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

S.M. Jodhani
QA REVIEW

REVIEWED

By Sohil Jodhani, QA/QC Director at 9:52 am, Nov 11, 2024

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4593

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: 11/08/2024

LAB CHRONICLE

OrderID:	P4593	OrderDate:	10/28/2024 10:27:46 AM
Client:	Tetra Tech, EMI	Project:	R36704
Contact:	Ava Heiss	Location:	K61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4593-01	C0PI1	WATER	Herbicide	8151A	10/22/24	10/28/24	11/01/24	10/26/24
P4593-02	C0PI5	WATER	Herbicide	8151A	10/23/24	10/28/24	11/01/24	10/26/24

Hit Summary Sheet
SW-846

SDG No.: P4593

Order ID: P4593

Client: Tetra Tech, EMI

Project ID: R36704

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	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

Surrogate Summary

SDG No.: **P4593**

Client: **Tetra Tech, EMI**

Analytical Method: **8151A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS028101.D	PIBLK-PS028101.D	2,4-DCAA	1	500	497	99		39	175
		2,4-DCAA	2	500	507	101		39	175
I.BLK-PS028145.D	PIBLK-PS028145.D	2,4-DCAA	1	500	529	106		39	175
		2,4-DCAA	2	500	553	111		39	175
PB164494BL	PB164494BL	2,4-DCAA	1	500	560	112		39	175
		2,4-DCAA	2	500	528	106		39	175
P4593-01	C0PI1	2,4-DCAA	1	500	584	117		39	175
		2,4-DCAA	2	500	561	112		39	175
I.BLK-PS028157.D	PIBLK-PS028157.D	2,4-DCAA	1	500	533	107		39	175
		2,4-DCAA	2	500	528	106		39	175
P4593-02	C0PI5	2,4-DCAA	1	500	589	118		39	175
		2,4-DCAA	2	500	562	112		39	175
I.BLK-PS028167.D	PIBLK-PS028167.D	2,4-DCAA	1	500	537	107		39	175
		2,4-DCAA	2	500	533	107		39	175
I.BLK-PS028252.D	PIBLK-PS028252.D	2,4-DCAA	1	500	489	98		39	175
		2,4-DCAA	2	500	491	98		39	175
I.BLK-PS028283.D	PIBLK-PS028283.D	2,4-DCAA	1	500	529	106		39	175
		2,4-DCAA	2	500	516	103		39	175
PB164494BS	PB164494BS	2,4-DCAA	1	500	559	112		39	175
		2,4-DCAA	2	500	534	107		39	175
PB164494BSD	PB164494BSD	2,4-DCAA	1	500	553	111		39	175
		2,4-DCAA	2	500	527	105		39	175
I.BLK-PS028296.D	PIBLK-PS028296.D	2,4-DCAA	1	500	530	106		39	175
		2,4-DCAA	2	500	508	102		39	175

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4593

Client: Tetra Tech, EMI

Analytical Method: 8151A

Datafile : PS028286.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB164494BS	DICAMBA	5	5.20	ug/L	104				67	136		
	DICHLORPROP	5	5.30	ug/L	106				88	119		
	2,4-D	5	5.30	ug/L	106				83	130		
	2,4,5-TP(Silvex)	5	5.40	ug/L	108				78	127		
	2,4,5-T	5	5.40	ug/L	108				74	129		
	2,4-DB	5	5.30	ug/L	106				53	149		
	Dinoseb	5	5.40	ug/L	108				72	131		

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4593

Client: Tetra Tech, EMI

Analytical Method: 8151A

Datafile : PS028287.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB164494BSD	DICAMBA	5	5.10	ug/L	102	2			67	136	20
	DICHLORPROP	5	5.20	ug/L	104	2			88	119	20
	2,4-D	5	5.30	ug/L	106	0			83	130	20
	2,4,5-TP(Silvex)	5	5.40	ug/L	108	0			78	127	20
	2,4,5-T	5	5.40	ug/L	108	0			74	129	20
	2,4-DB	5	5.30	ug/L	106	0			53	149	20
	Dinoseb	5	5.30	ug/L	106	2			72	131	20

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164494BL

Lab Name: CHEMTECH

Contract: TETR16

Lab Code: CHEM Case No.: P4593

SAS No.: P4593 SDG NO.: P4593

Lab Sample ID: PB164494BL

Lab File ID: PS028153.D

Matrix: (soil/water) WATER

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 10/28/2024

Date Analyzed (1): 11/01/2024

Date Analyzed (2): 11/01/2024

Time Analyzed (1): 08:31

Time Analyzed (2): 08:31

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
COPI1	P4593-01	PS028156.D	11/01/2024	11/01/2024
COPI5	P4593-02	PS028166.D	11/01/2024	11/01/2024
PB164494BS	PB164494BS	PS028286.D	11/07/2024	11/07/2024
PB164494BSD	PB164494BSD	PS028287.D	11/07/2024	11/07/2024

COMMENTS: _____



SAMPLE DATA

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/22/24
Project:	R36704	Date Received:	10/26/24
Client Sample ID:	C0P11	SDG No.:	P4593
Lab Sample ID:	P4593-01	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028156.D	1	10/28/24 13:45	11/01/24 09:43	PB164494

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	584		39 - 175	117%	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\PS103124\
Data File : PS028156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 09:43
Operator : AR\AJ
Sample : P4593-01
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
COP11

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 02:27:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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	7.064	7.605	1827.3E6	560.7E6	584.038	561.195
------	----------	-------	-------	----------	---------	---------	---------

Target Compounds

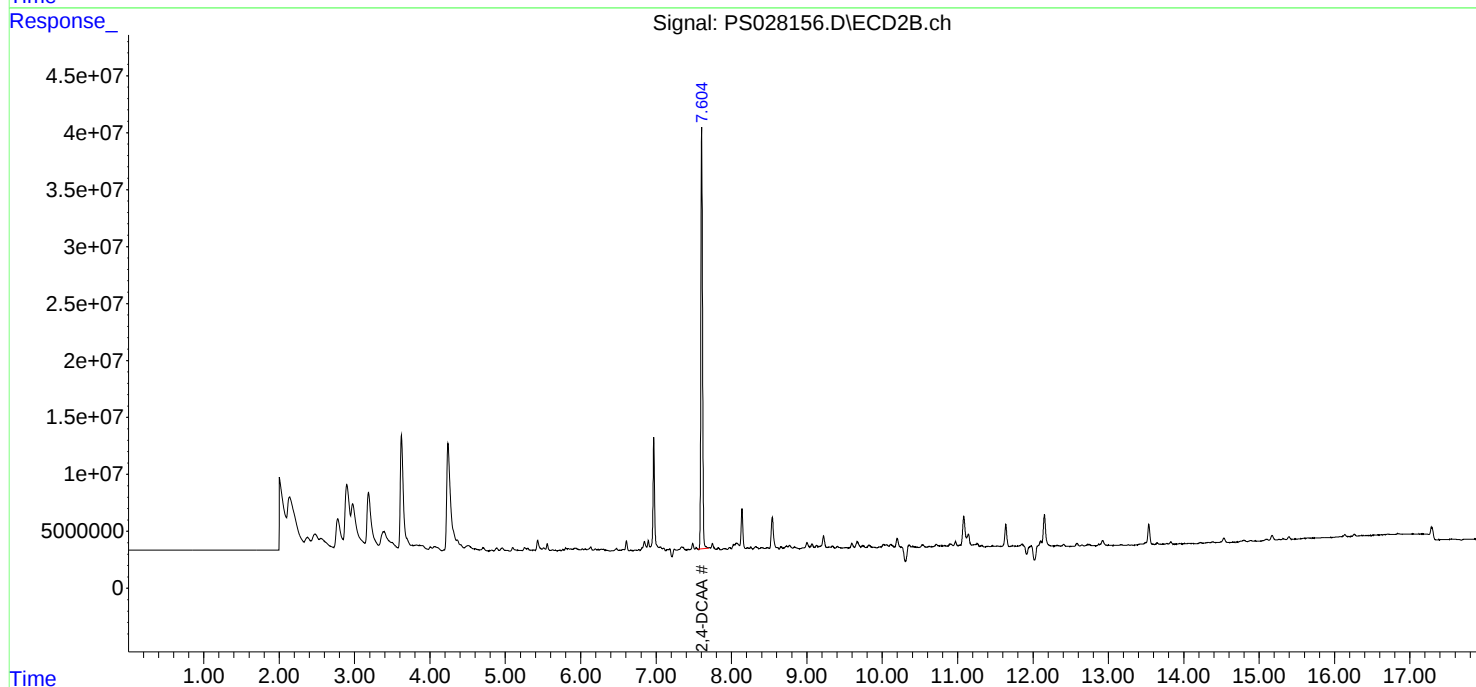
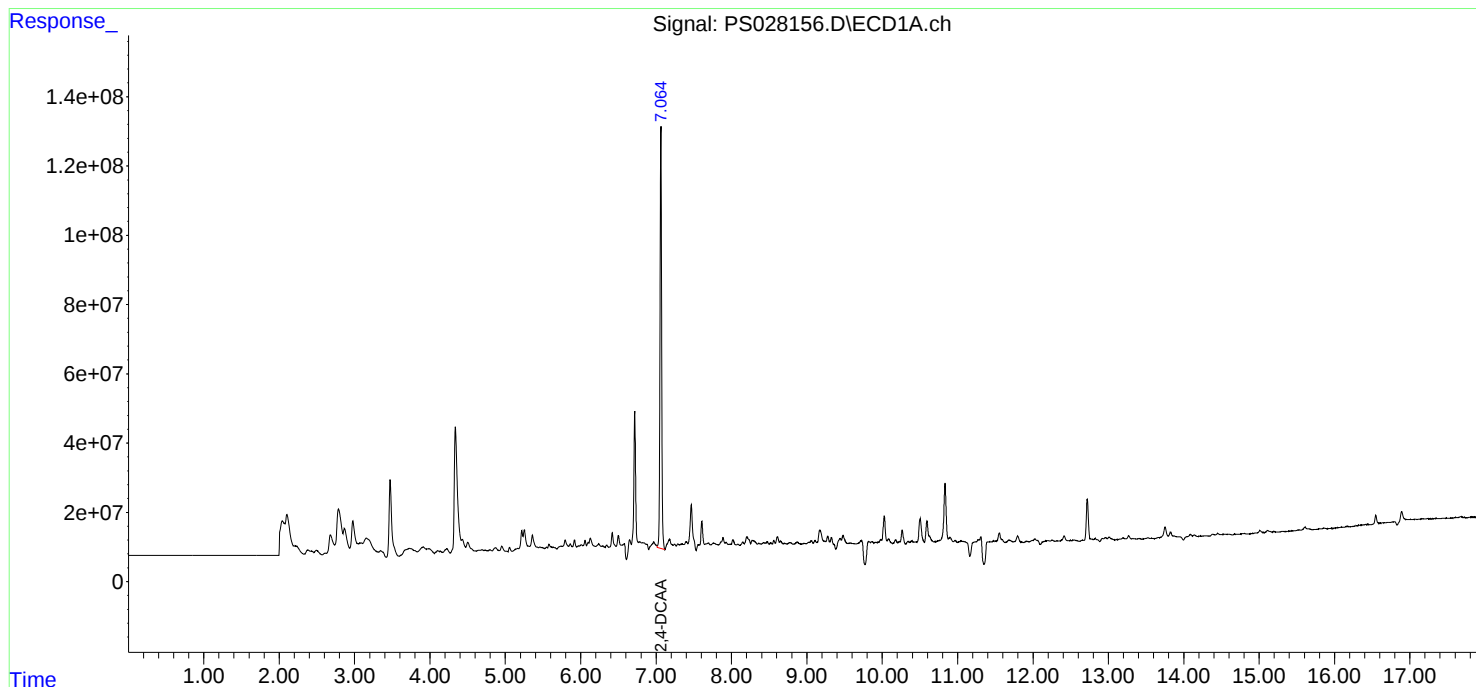
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 09:43
Operator : AR\AJ
Sample : P4593-01
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
C0P11

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 02:27:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 2024
Response via : Initial Calibration
Integrator: ChemStation

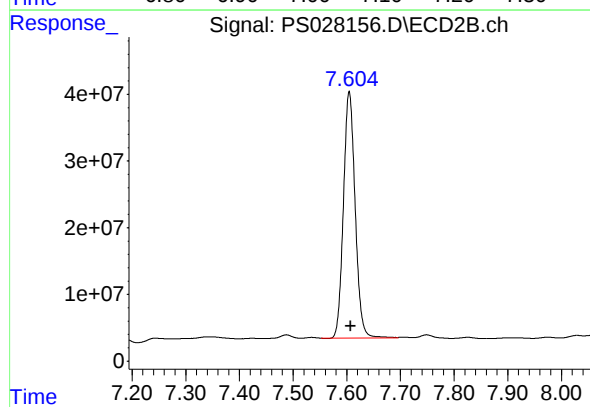
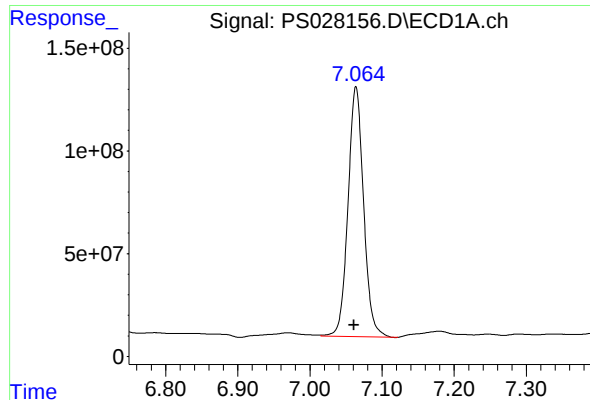
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



#4 2,4-DCAA

R.T.: 7.064 min
Delta R.T.: 0.003 min
Response: 1827306258
Conc: 584.04 ng/ml

Instrument :
ECD_S
ClientSampleId :
COP11



#4 2,4-DCAA

R.T.: 7.605 min
Delta R.T.: -0.003 min
Response: 560715469
Conc: 561.20 ng/ml

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/23/24
Project:	R36704	Date Received:	10/26/24
Client Sample ID:	C0PI5	SDG No.:	P4593
Lab Sample ID:	P4593-02	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028166.D	1	10/28/24 13:45	11/01/24 14:31	PB164494

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	589		39 - 175	118%	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\PS103124\
 Data File : PS028166.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 Nov 2024 14:31
 Operator : AR\AJ
 Sample : P4593-02
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

C0PI5

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 11/04/2024

Supervised By :Ankita Jodhani 11/05/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 04 02:31:55 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:10:03 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	7.065	7.608	1843.6E6	561.9E6	589.254	562.355m
------	----------	-------	-------	----------	---------	---------	----------

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028166.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 14:31
Operator : AR\AJ
Sample : P4593-02
Misc :
ALS Vial : 52 Sample Multiplier: 1

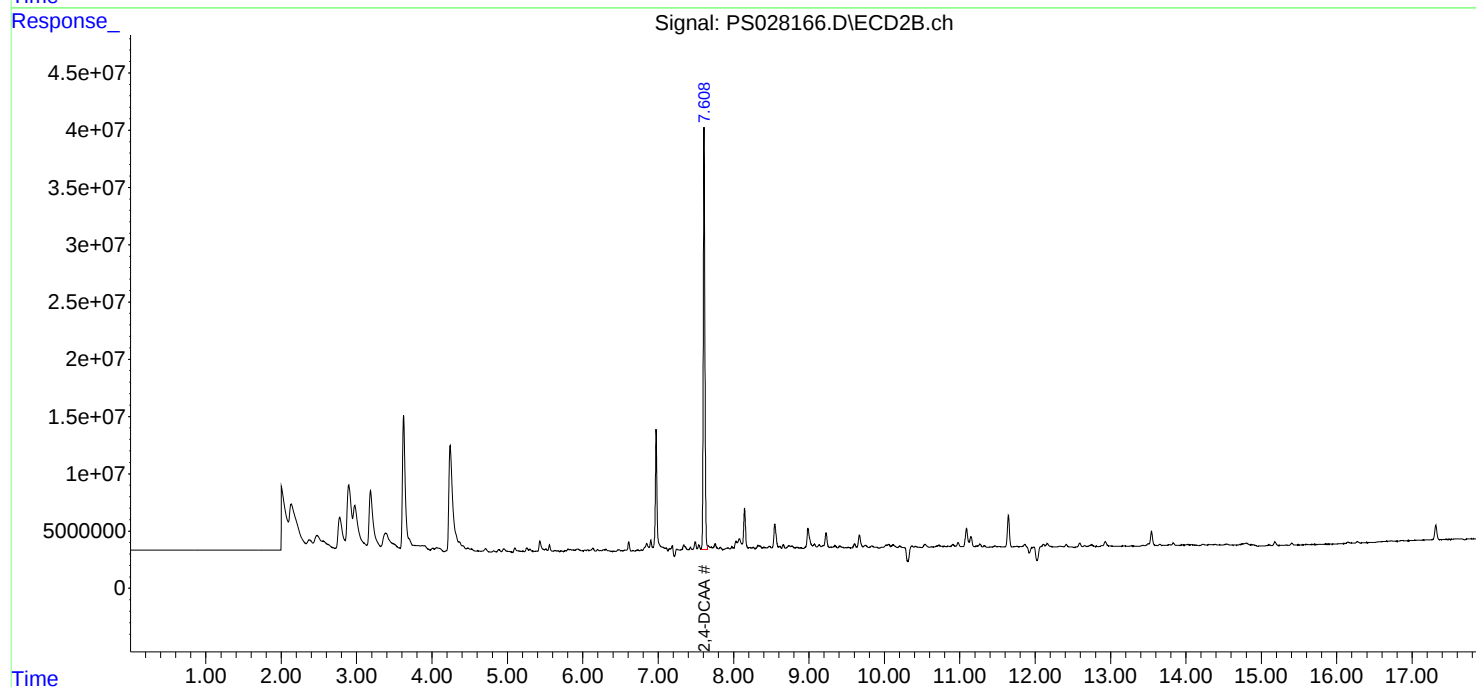
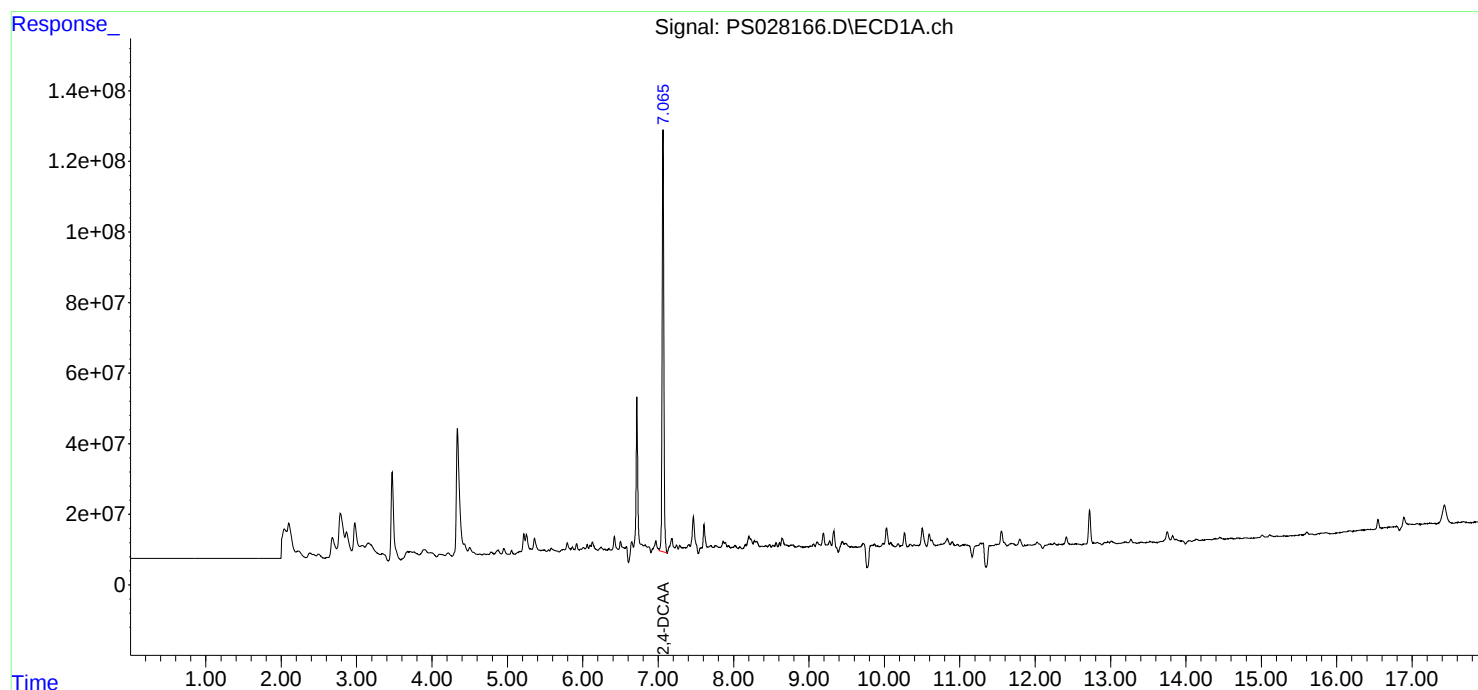
Instrument :
ECD_S
ClientSampleId :
C0PI5

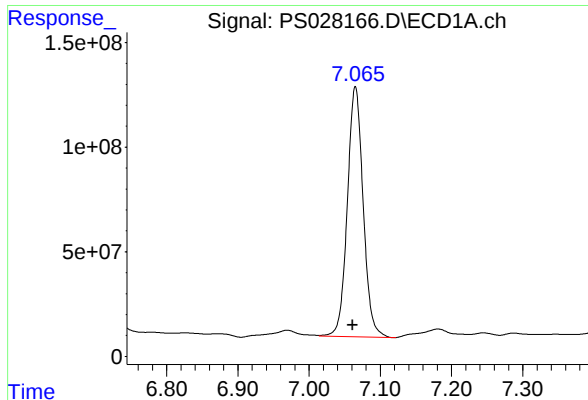
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/05/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 02:31:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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





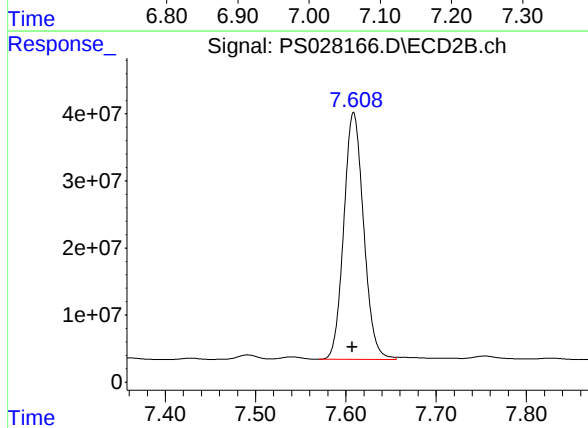
#4 2,4-DCAA

R.T.: 7.065 min
Delta R.T.: 0.004 min
Response: 1843626619
Conc: 589.25 ng/ml

Instrument :
ECD_S
ClientSampleId :
C0PI5

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/05/2024



#4 2,4-DCAA

R.T.: 7.608 min
Delta R.T.: 0.000 min
Response: 561874140
Conc: 562.36 ng/ml



CALIBRATION SUMMARY

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR16
Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593
Instrument ID: ECD_S **Calibration Date(s):** 10/31/2024 10/31/2024
Calibration Times: 10:51 12:27

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

LAB FILE ID:	RT 200 = <u>PS028102.D</u>	RT 500 = <u>PS028103.D</u>
RT 750 = <u>PS028104.D</u>	RT 1000 = <u>PS028105.D</u>	RT 1500 = <u>PS028106.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	9.28	9.28	9.28	9.28	9.28	9.28	9.18	9.38
2,4,5-TP(Silvex)	8.99	8.99	8.99	8.99	8.99	8.99	8.89	9.09
2,4-D	8.14	8.14	8.14	8.14	8.14	8.14	8.04	8.24
2,4-DB	9.84	9.84	9.84	9.84	9.84	9.84	9.74	9.94
2,4-DCAA	7.06	7.06	7.06	7.06	7.06	7.06	6.96	7.16
DICAMBA	7.24	7.24	7.24	7.24	7.24	7.24	7.14	7.34
DICHLORPROP	7.92	7.92	7.92	7.92	7.92	7.92	7.82	8.02
Dinoseb	11.01	11.01	11.01	11.01	11.01	11.01	10.91	11.11

RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR16
Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593
Instrument ID: ECD_S **Calibration Date(s):** 10/31/2024 10/31/2024
Calibration Times: 10:51 12:27

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

LAB FILE ID:	RT 200 = <u>PS028102.D</u>	RT 500 = <u>PS028103.D</u>
RT 750 = <u>PS028104.D</u>	RT 1000 = <u>PS028105.D</u>	RT 1500 = <u>PS028106.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	10.14	10.14	10.13	10.14	10.14	10.14	10.04	10.24
2,4,5-TP(Silvex)	9.72	9.72	9.72	9.72	9.73	9.72	9.62	9.82
2,4-D	8.83	8.83	8.83	8.83	8.84	8.83	8.73	8.93
2,4-DB	10.70	10.70	10.70	10.70	10.70	10.70	10.60	10.80
2,4-DCAA	7.61	7.61	7.61	7.61	7.61	7.61	7.51	7.71
DICAMBA	7.80	7.80	7.80	7.80	7.81	7.80	7.70	7.90
DICHLORPROP	8.51	8.51	8.50	8.51	8.51	8.51	8.41	8.61
Dinoseb	11.07	11.07	11.07	11.08	11.08	11.07	10.97	11.17

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16
Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593
Instrument ID: ECD_S **Calibration Date(s):** 10/31/2024 10/31/2024
Calibration Times: 10:51 12:27
GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028102.D</u>		CF 500 = <u>PS028103.D</u>			
CF 750 = <u>PS028104.D</u>		CF 1000 = <u>PS028105.D</u>		CF 1500 = <u>PS028106.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	24476700000	22435000000	21559300000	20464800000	19450600000	21677300000	9
2,4,5-TP(Silvex)	22891600000	21030800000	20298400000	19273000000	18375600000	20373900000	8
2,4-D	4683430000	4130700000	3987230000	3810000000	3695310000	4061330000	9
2,4-DB	3704650000	3428640000	3369410000	3264010000	3228140000	3398970000	6
2,4-DCAA	3647030000	3188450000	3045110000	2927180000	2835960000	3128750000	10
DICAMBA	15048200000	13996800000	13598200000	13118700000	12676600000	13687700000	7
DICHLORPROP	3917540000	3467260000	3333040000	3186160000	3102550000	3401310000	9
Dinoseb	18570300000	16899200000	16333500000	15628200000	15026100000	16491500000	8

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16
Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593
Instrument ID: ECD_S **Calibration Date(s):** 10/31/2024 10/31/2024
Calibration Times: 10:51 12:27
GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028102.D</u>		CF 500 = <u>PS028103.D</u>			
CF 750 = <u>PS028104.D</u>		CF 1000 = <u>PS028105.D</u>		CF 1500 = <u>PS028106.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	6378170000	6219850000	6059070000	5931150000	6017390000	6121130000	3
2,4,5-TP(Silvex)	6724520000	6535760000	6190070000	6074290000	6251200000	6355170000	4
2,4-D	1362400000	1262070000	1161560000	1135900000	1165630000	1217510000	8
2,4-DB	796126000	751721000	739397000	737389000	757460000	756419000	3
2,4-DCAA	1139890000	1052670000	930936000	911429000	960799000	999145000	10
DICAMBA	4792790000	4754520000	4318960000	4300380000	4578590000	4549050000	5
DICHLORPROP	1246460000	1137870000	1034480000	1008880000	1040170000	1093570000	9
Dinoseb	4808430000	4536240000	4463430000	4426700000	4412880000	4529530000	4

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
 Data File : PS028102.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Oct 2024 10:51
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/01/2024

Supervised By :Ankita Jodhani 11/05/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 31 13:08:41 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:01:00 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	7.061	7.607	729.4E6	228.0E6	233.131	228.174
Target Compounds						
1) T Dalapon	2.524	2.591	854.4E6	407.0E6	208.068	188.808
2) T 3,5-DICHL...	6.260	6.584	999.2E6	320.1E6	215.713	207.538
3) T 4-Nitroph...	6.857	7.144	465.6E6	141.0E6	197.929	207.012
5) T DICAMBA	7.239	7.800	2829.1E6	901.0E6	206.686	198.073
6) T MCPP	7.414	7.901	154.2E6	58886565	16.387	18.810
7) T MCPA	7.556	8.139	224.5E6	96447674	17.353	21.289
8) T DICHLORPROP	7.921	8.506	736.5E6	234.3E6	216.533	214.284
9) T 2,4-D	8.143	8.831	880.5E6	256.1E6	216.797	210.372
10) T Pentachlo...	8.427	9.341	11269.5E6	3401.3E6	228.989m	204.996
11) T 2,4,5-TP ...	8.992	9.722	4349.4E6	1277.7E6	213.479	201.042
12) T 2,4,5-T	9.276	10.136	4650.6E6	1211.9E6	214.537	197.979
13) T 2,4-DB	9.837	10.700	703.9E6	151.3E6	207.087	199.974
14) T DINOSEB	11.010	11.073	3491.2E6	904.0E6	211.699	199.576
15) T Picloram	10.826	12.152	7145.0E6	1488.3E6	207.055	179.836
16) T DCPA	11.309	12.106	5205.4E6	1387.8E6	218.012	197.173

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028102.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 10:51
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

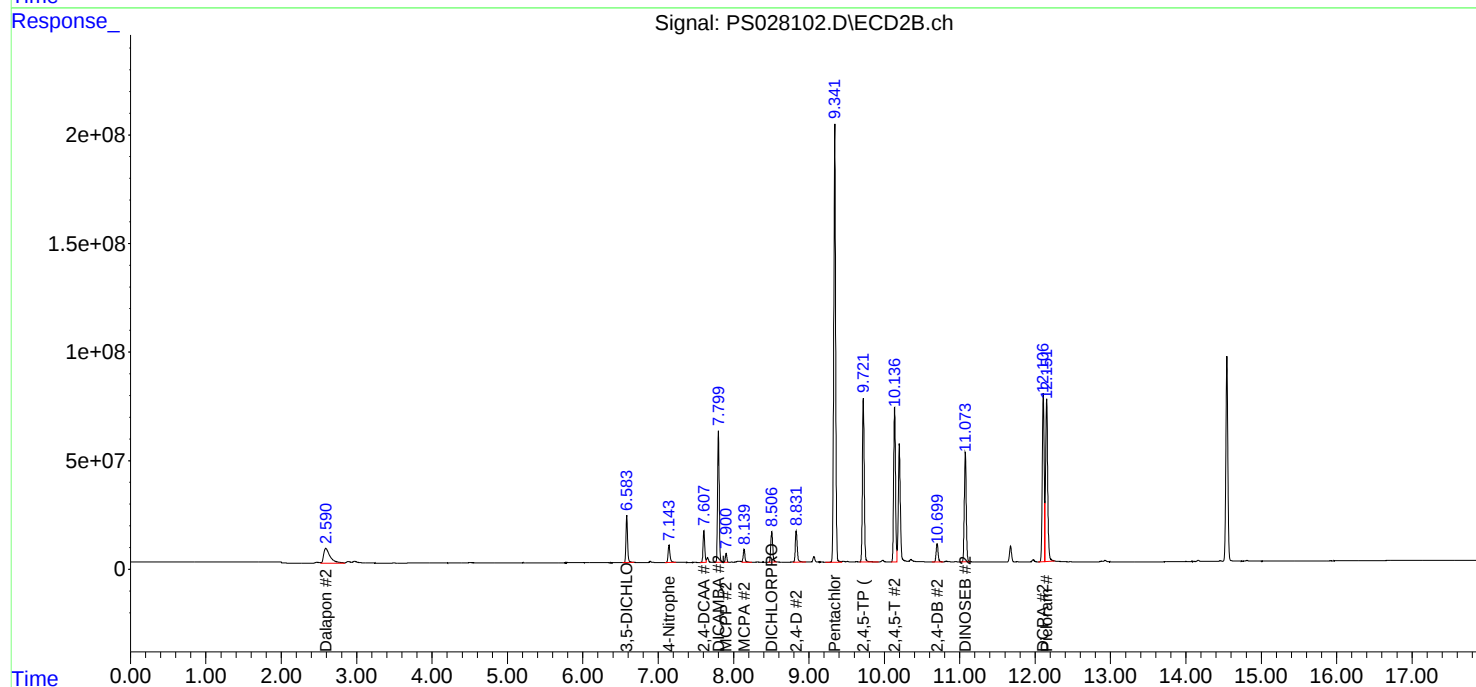
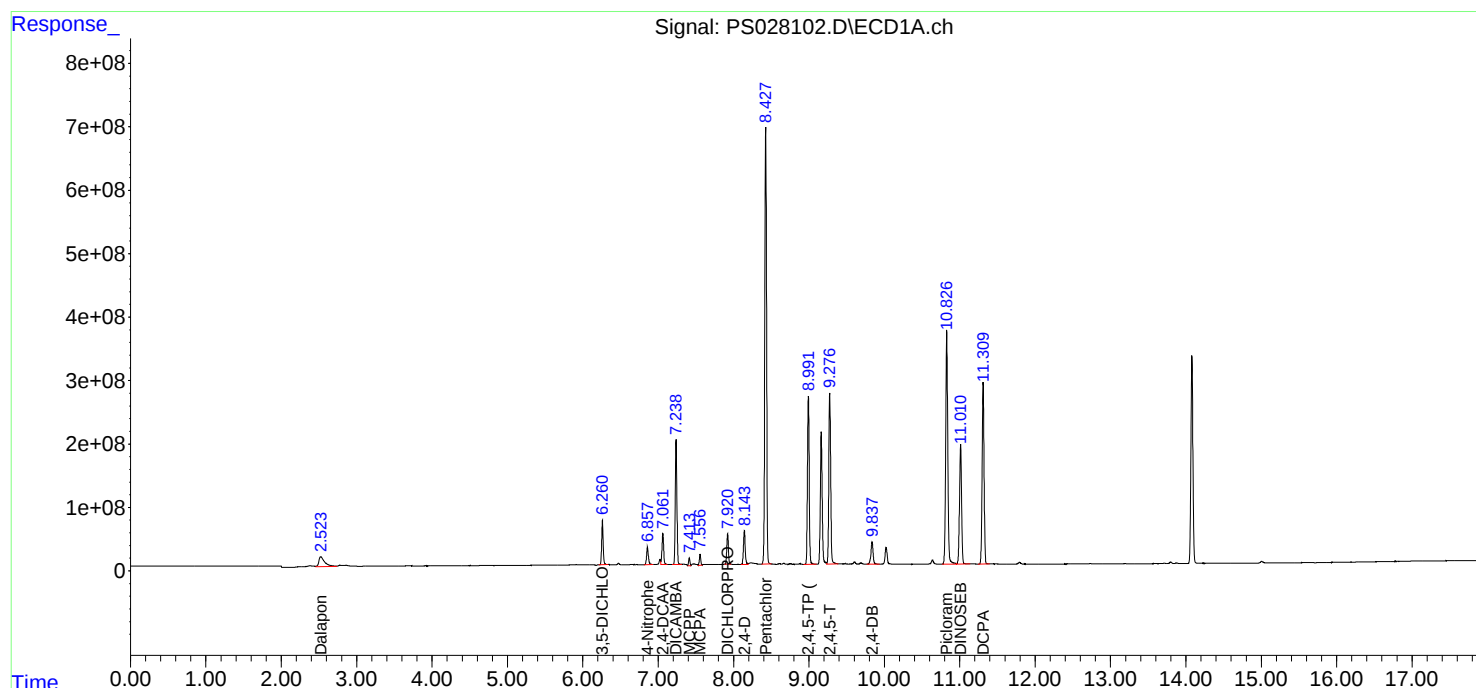
APPROVED

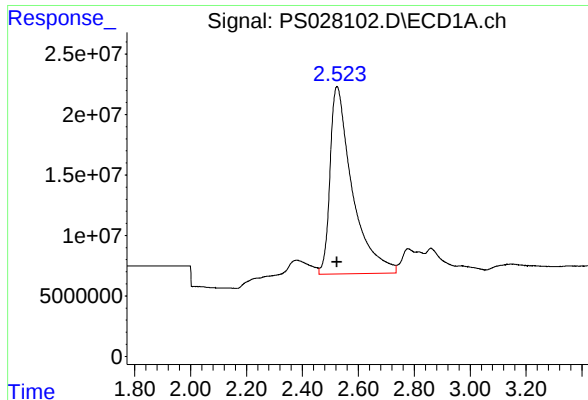
Reviewed By :Abdul Mirza 11/01/2024

Supervised By :Ankita Jodhani 11/05/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 31 13:08:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:01:00 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





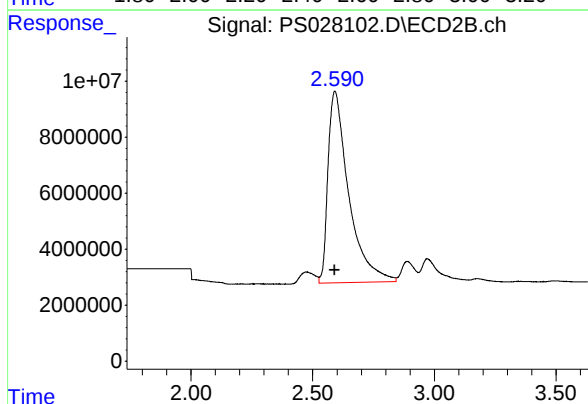
#1 Dalapon

R.T.: 2.524 min
Delta R.T.: 0.000 min
Response: 854425990
Conc: 208.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

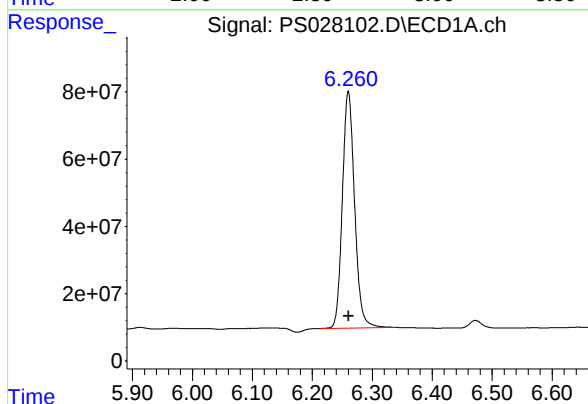
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



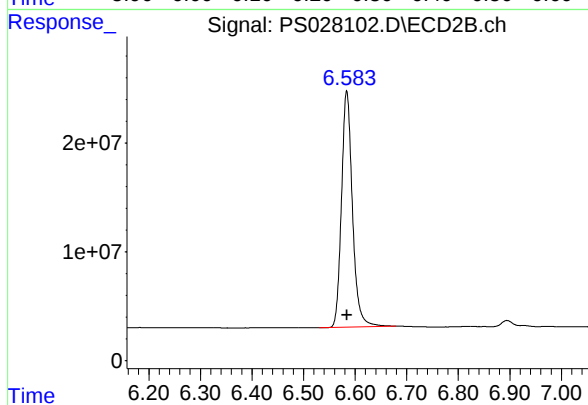
#1 Dalapon

R.T.: 2.591 min
Delta R.T.: 0.000 min
Response: 406971188
Conc: 188.81 ng/ml



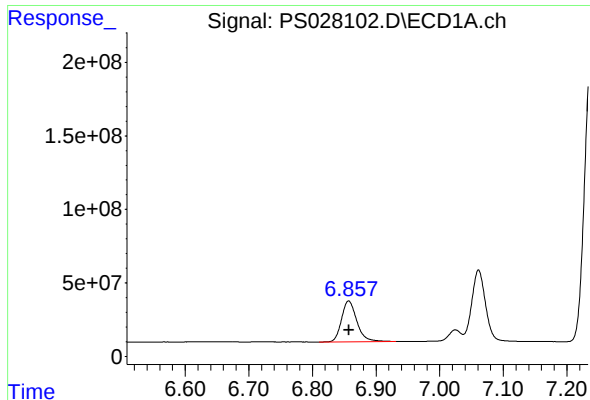
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.260 min
Delta R.T.: 0.000 min
Response: 999159033
Conc: 215.71 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.584 min
Delta R.T.: 0.000 min
Response: 320081296
Conc: 207.54 ng/ml



#3 4-Nitrophenol

R.T.: 6.857 min
Delta R.T.: 0.000 min
Response: 465555203
Conc: 197.93 ng/ml

Instrument :

ECD_S

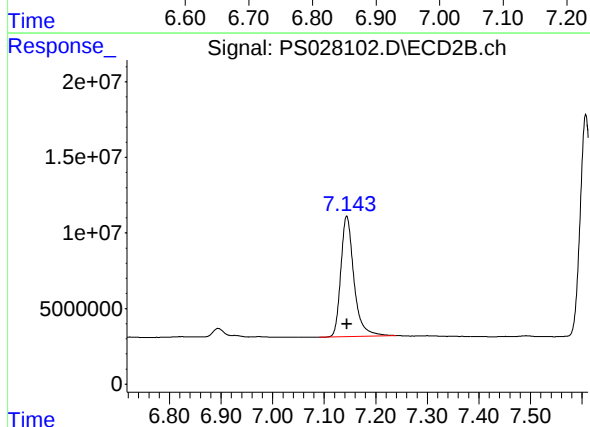
ClientSampleId :

HSTDICC200

Manual Integrations

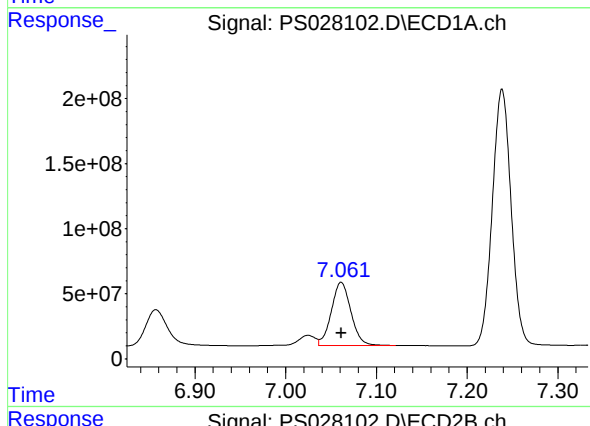
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



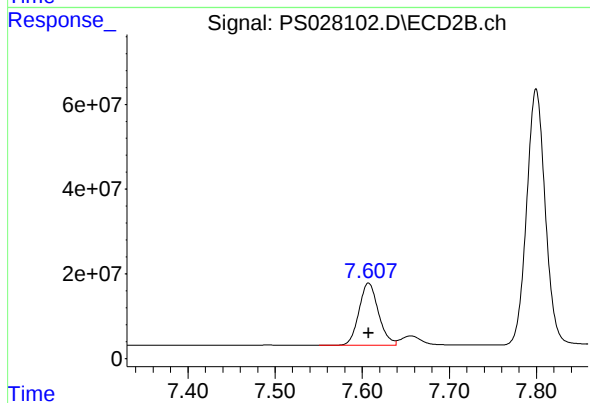
#3 4-Nitrophenol

R.T.: 7.144 min
Delta R.T.: 0.000 min
Response: 141031005
Conc: 207.01 ng/ml



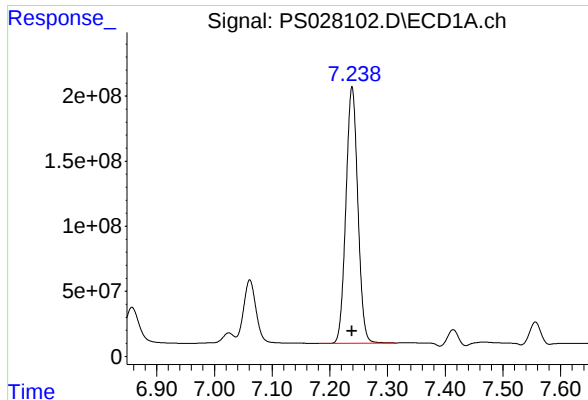
#4 2,4-DCAA

R.T.: 7.061 min
Delta R.T.: 0.000 min
Response: 729406639
Conc: 233.13 ng/ml



#4 2,4-DCAA

R.T.: 7.607 min
Delta R.T.: 0.000 min
Response: 227978418
Conc: 228.17 ng/ml



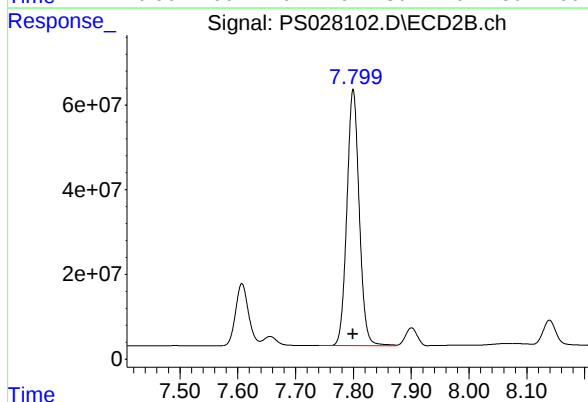
#5 DICAMBA

R.T.: 7.239 min
Delta R.T.: 0.000 min
Response: 2829054683
Conc: 206.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

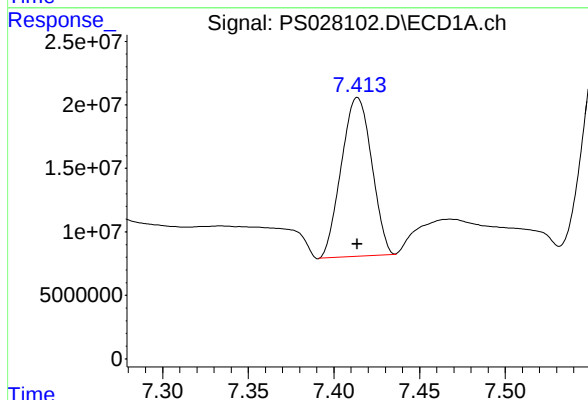
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



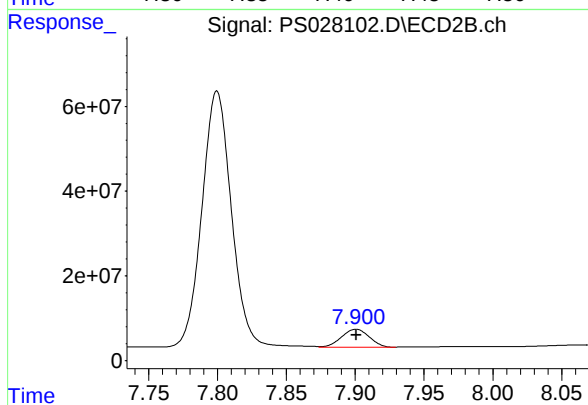
#5 DICAMBA

R.T.: 7.800 min
Delta R.T.: 0.000 min
Response: 901043594
Conc: 198.07 ng/ml



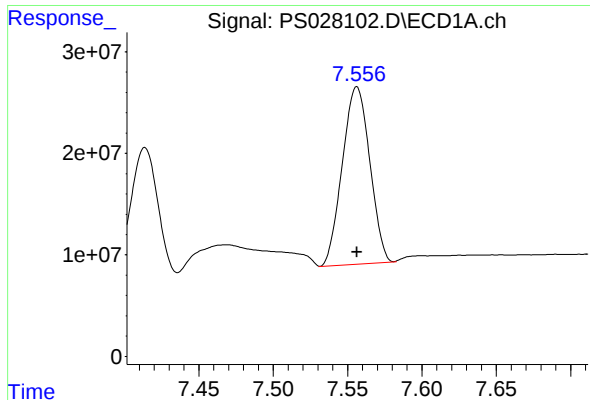
#6 MCP

R.T.: 7.414 min
Delta R.T.: 0.000 min
Response: 154246771
Conc: 16.39 ug/ml



#6 MCP

R.T.: 7.901 min
Delta R.T.: 0.000 min
Response: 58886565
Conc: 18.81 ug/ml



#7 MCPA

R.T.: 7.556 min
Delta R.T.: 0.000 min
Response: 224522177
Conc: 17.35 ug/ml

Instrument :

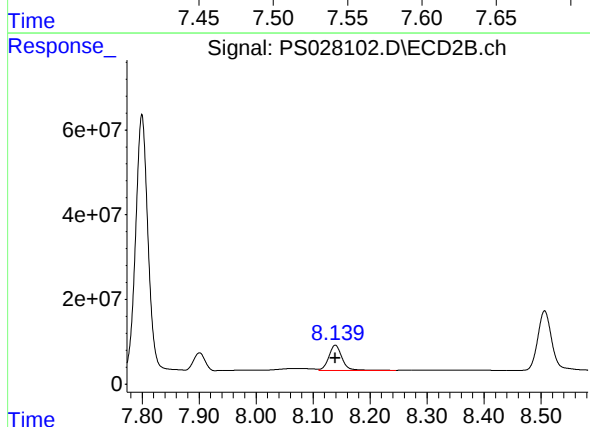
ECD_S

ClientSampleId :

HSTDICC200

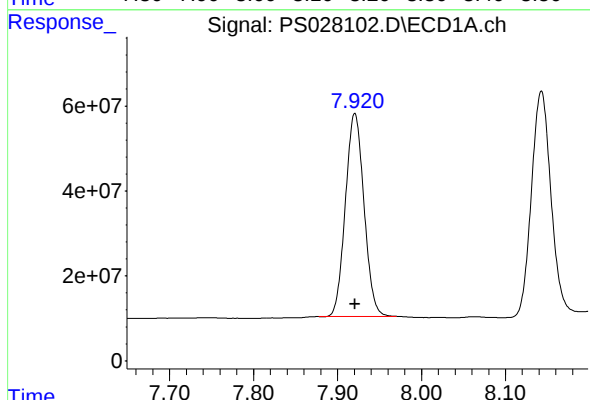
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



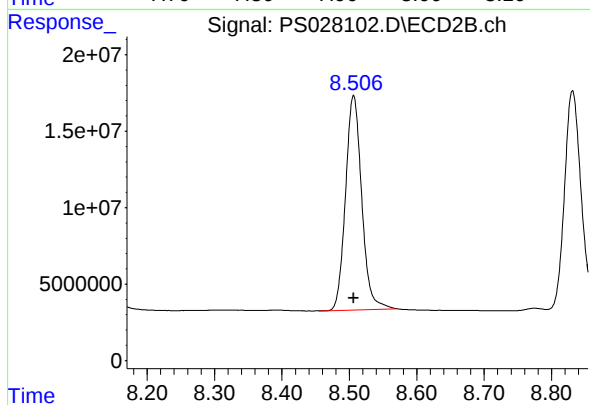
#7 MCPA

R.T.: 8.139 min
Delta R.T.: 0.000 min
Response: 96447674
Conc: 21.29 ug/ml



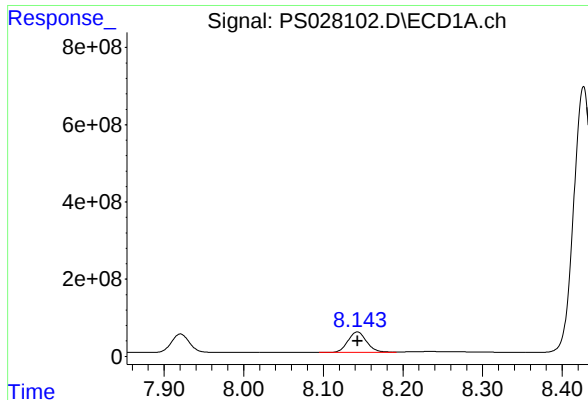
#8 DICHLORPROP

R.T.: 7.921 min
Delta R.T.: 0.000 min
Response: 736496728
Conc: 216.53 ng/ml



#8 DICHLORPROP

R.T.: 8.506 min
Delta R.T.: 0.000 min
Response: 234335398
Conc: 214.28 ng/ml



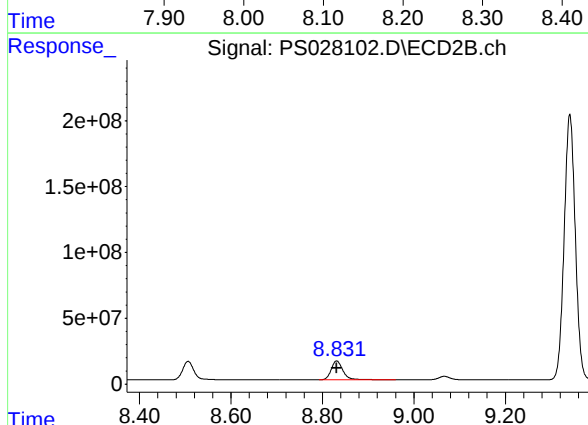
#9 2,4-D

R.T.: 8.143 min
Delta R.T.: 0.000 min
Response: 880484265
Conc: 216.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

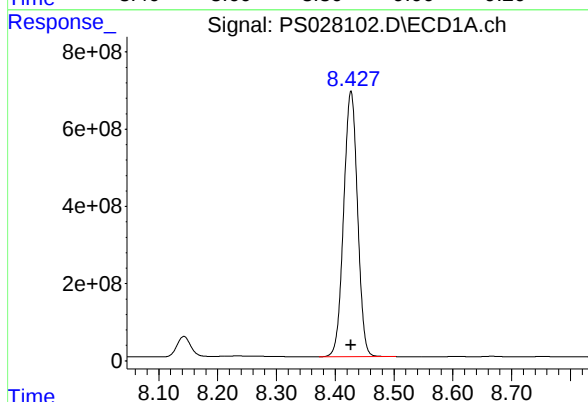
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



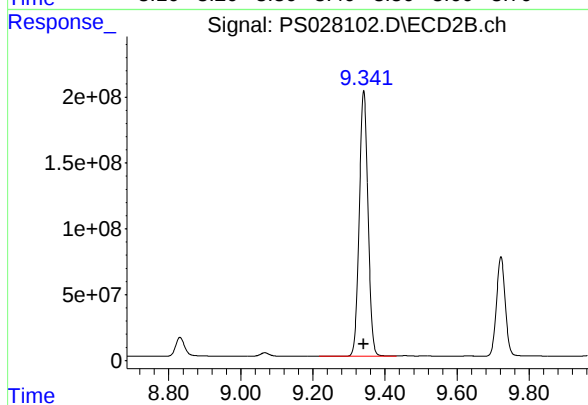
#9 2,4-D

R.T.: 8.831 min
Delta R.T.: 0.000 min
Response: 256130279
Conc: 210.37 ng/ml



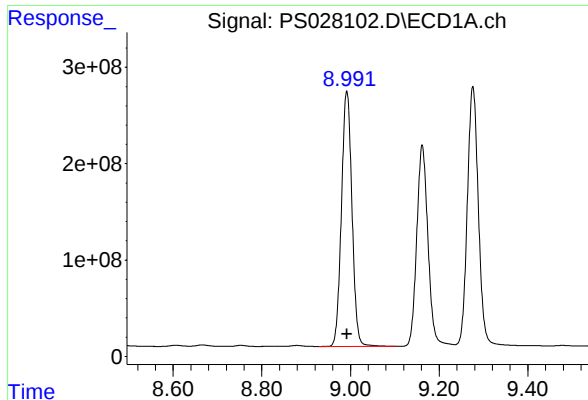
#10 Pentachlorophenol

R.T.: 8.427 min
Delta R.T.: 0.000 min
Response: 11269526790
Conc: 228.99 ng/ml m



#10 Pentachlorophenol

R.T.: 9.341 min
Delta R.T.: 0.000 min
Response: 3401327989
Conc: 205.00 ng/ml



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

R.T.: 8.992 min
Delta R.T.: 0.000 min
Response: 4349398589
Conc: 213.48 ng/ml

Instrument :

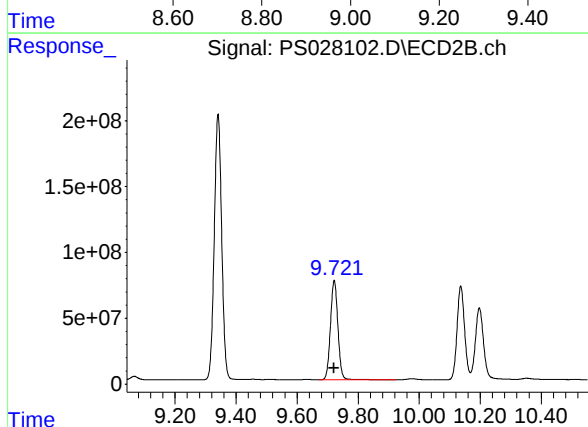
ECD_S

ClientSampleId :

HSTDICC200

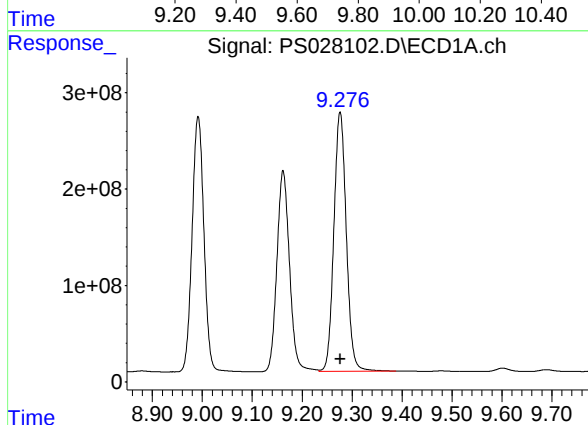
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



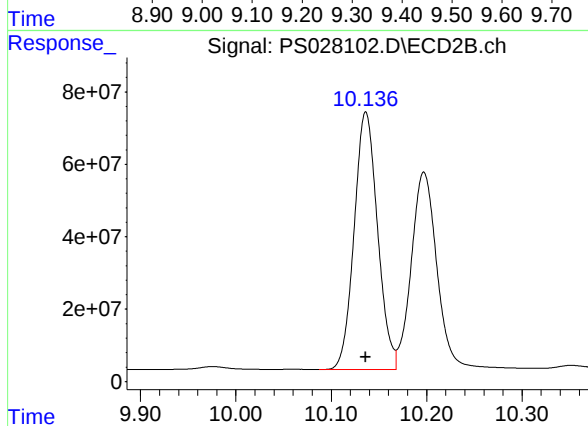
#11 2,4,5-TP (SILVEX)

R.T.: 9.722 min
Delta R.T.: 0.000 min
Response: 1277658769
Conc: 201.04 ng/ml



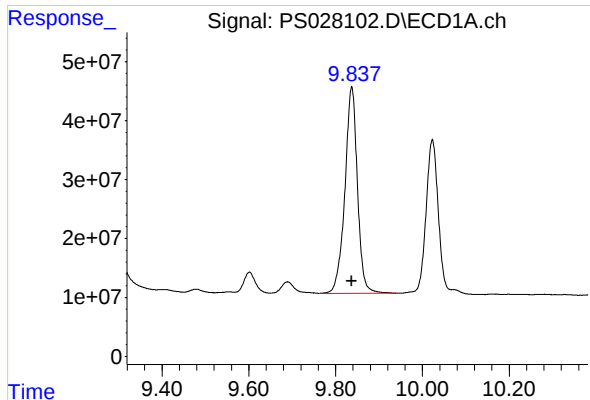
#12 2,4,5-T

R.T.: 9.276 min
Delta R.T.: 0.000 min
Response: 4650564736
Conc: 214.54 ng/ml



#12 2,4,5-T

R.T.: 10.136 min
Delta R.T.: 0.000 min
Response: 1211852663
Conc: 197.98 ng/ml



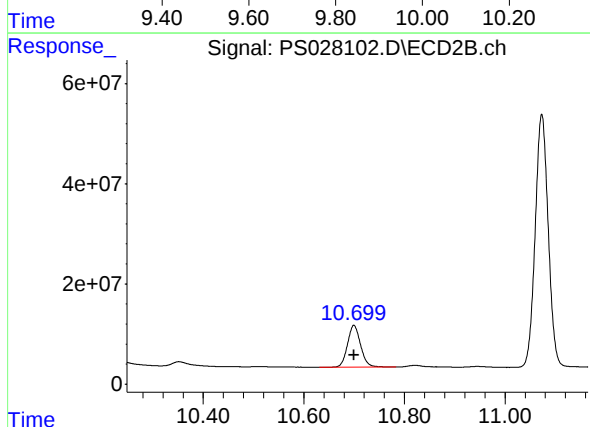
#13 2,4-DB

R.T.: 9.837 min
Delta R.T.: 0.000 min
Response: 703882943
Conc: 207.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

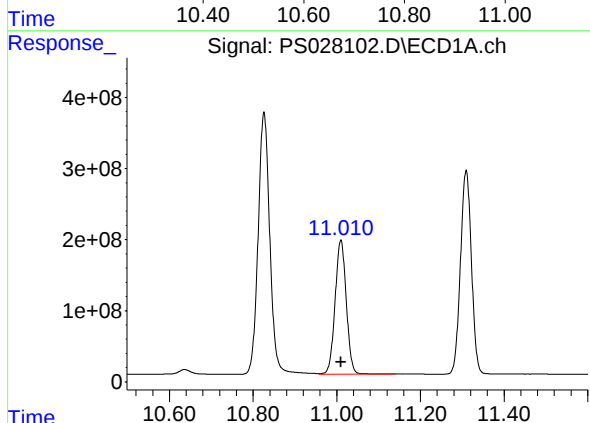
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



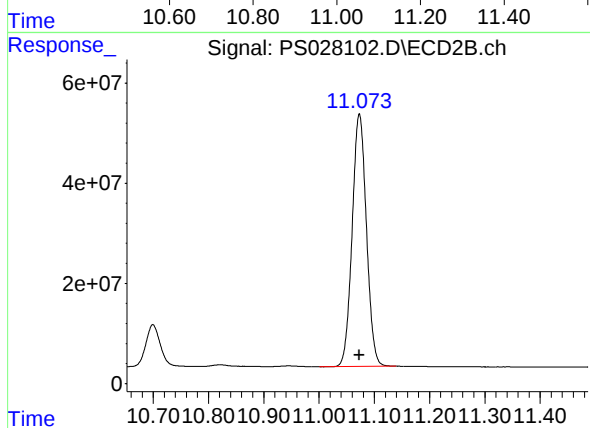
#13 2,4-DB

R.T.: 10.700 min
Delta R.T.: 0.000 min
Response: 151263901
Conc: 199.97 ng/ml



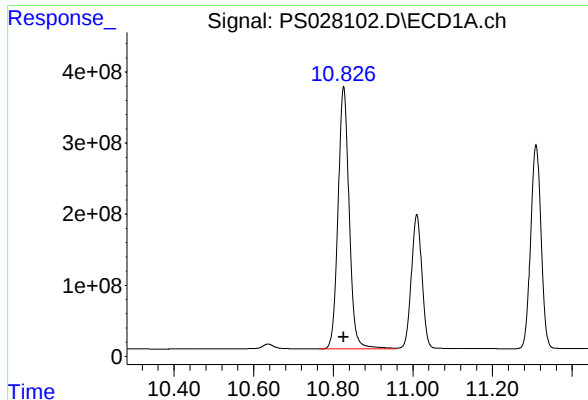
#14 DINOSEB

R.T.: 11.010 min
Delta R.T.: 0.000 min
Response: 3491222791
Conc: 211.70 ng/ml



#14 DINOSEB

R.T.: 11.073 min
Delta R.T.: 0.000 min
Response: 903984541
Conc: 199.58 ng/ml



#15 Picloram

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 7145038001
Conc: 207.06 ng/ml

Instrument :

ECD_S

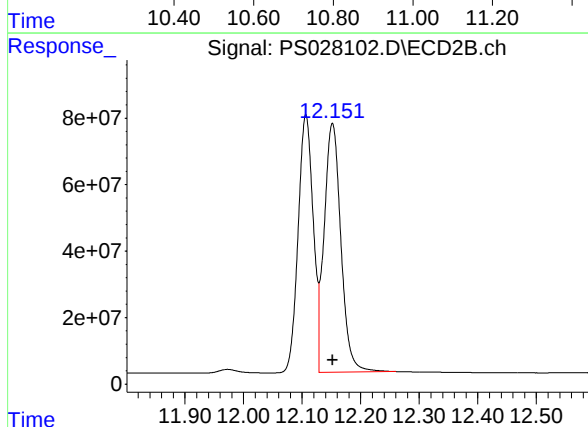
ClientSampleId :

HSTDICC200

Manual Integrations

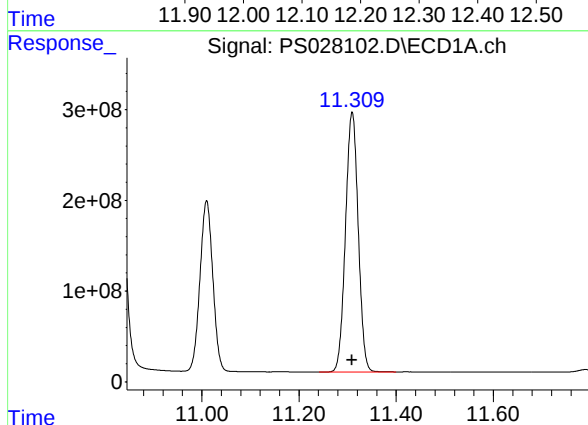
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



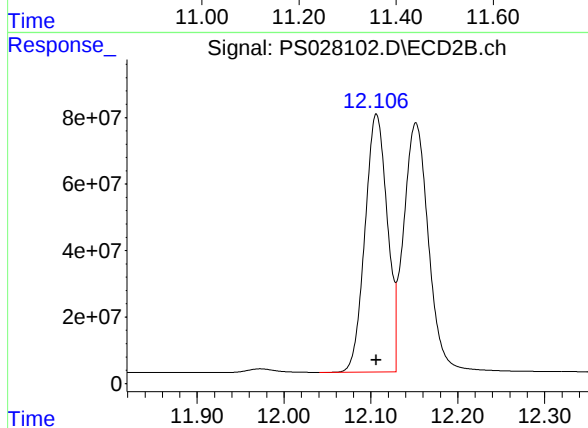
#15 Picloram

R.T.: 12.152 min
Delta R.T.: 0.000 min
Response: 1488275097
Conc: 179.84 ng/ml



#16 DCPA

R.T.: 11.309 min
Delta R.T.: 0.000 min
Response: 5205394085
Conc: 218.01 ng/ml



#16 DCPA

R.T.: 12.106 min
Delta R.T.: 0.000 min
Response: 1387784545
Conc: 197.17 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
 Data File : PS028103.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Oct 2024 11:15
 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: Oct 31 13:07:00 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:01:00 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	7.062	7.608	1594.2E6	526.3E6	531.555	546.013
Target Compounds						
1) T Dalapon	2.523	2.592	1907.0E6	964.0E6	481.645	451.448
2) T 3,5-DICHL...	6.260	6.584	2193.6E6	745.9E6	493.278	498.059
3) T 4-Nitroph...	6.857	7.143	1064.9E6	318.6E6	462.887	484.234
5) T DICAMBA	7.239	7.801	6578.5E6	2234.6E6	492.861	497.899
6) T MCPP	7.416	7.904	432.7E6	153.3E6	44.542	48.988
7) T MCPA	7.560	8.143	592.6E6	220.2E6	45.049	50.436
8) T DICHLORPROP	7.921	8.507	1629.6E6	534.8E6	498.009	506.752
9) T 2,4-D	8.143	8.832	1941.4E6	593.2E6	497.061	502.141
10) T Pentachlo...	8.427	9.343	25854.7E6	8239.0E6	554.474	506.556
11) T 2,4,5-TP ...	8.992	9.723	9989.6E6	3104.5E6	505.946	495.700
12) T 2,4,5-T	9.276	10.138	10656.6E6	2954.4E6	508.005	487.781
13) T 2,4-DB	9.838	10.701	1628.6E6	357.1E6	490.167	478.328
14) T DINOSEB	11.010	11.074	7942.6E6	2132.0E6	497.292	478.055
15) T Picloram	10.826	12.152	16820.3E6	3840.8E6	498.623	457.980
16) T DCPA	11.310	12.108	11907.8E6	3387.4E6	516.207	484.540

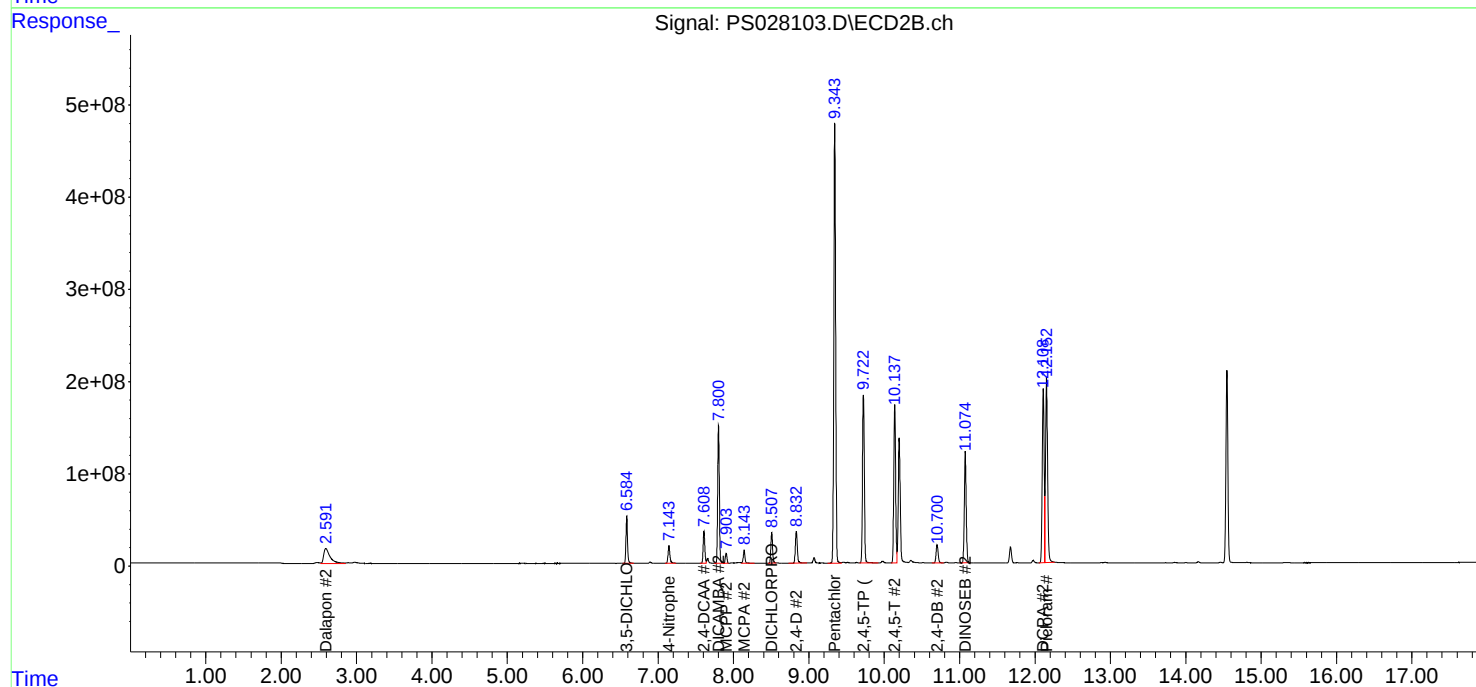
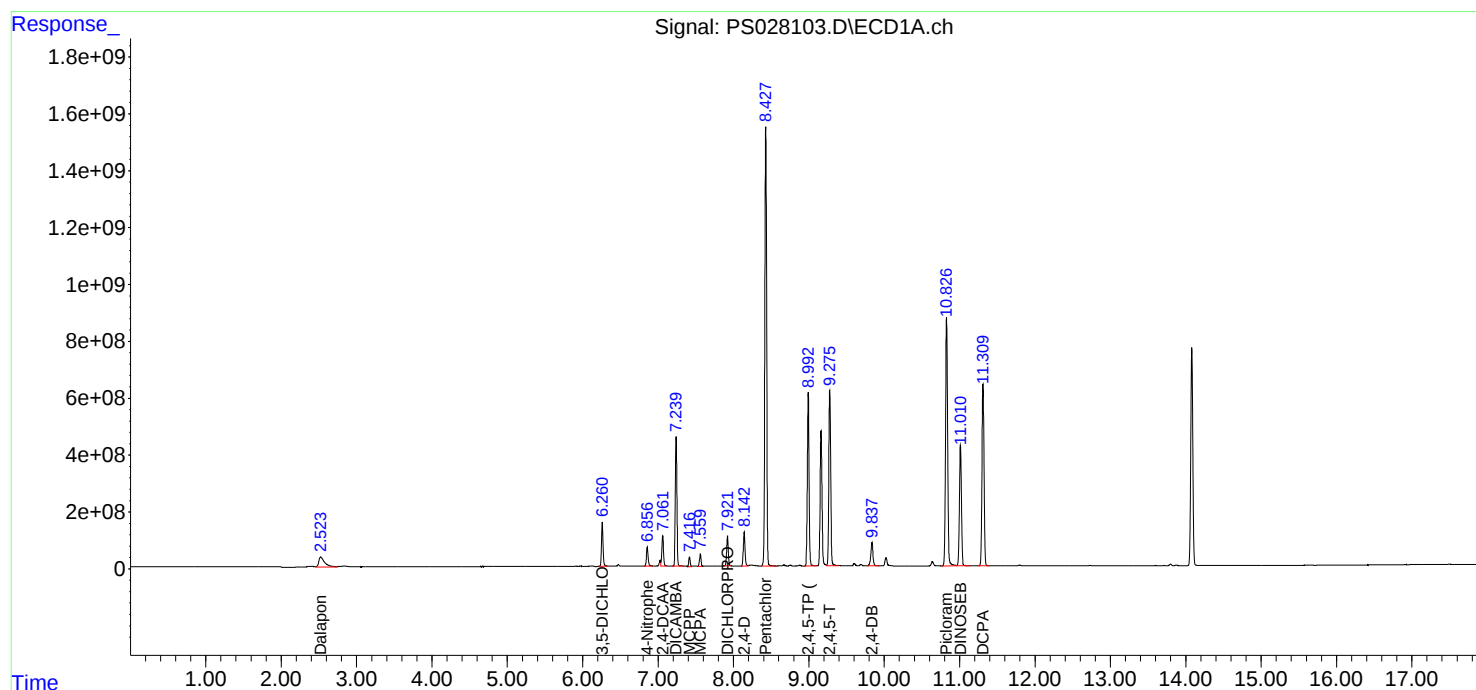
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

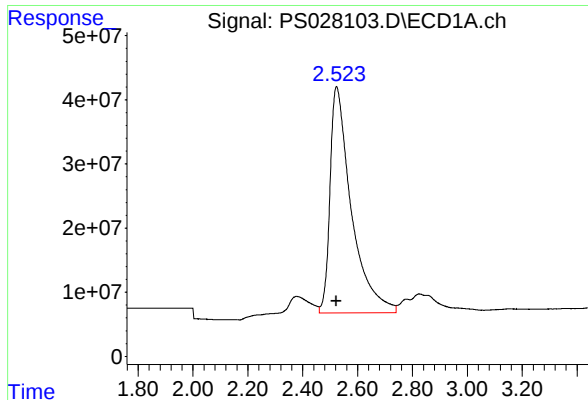
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028103.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 11:15
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 31 13:07:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:01:00 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

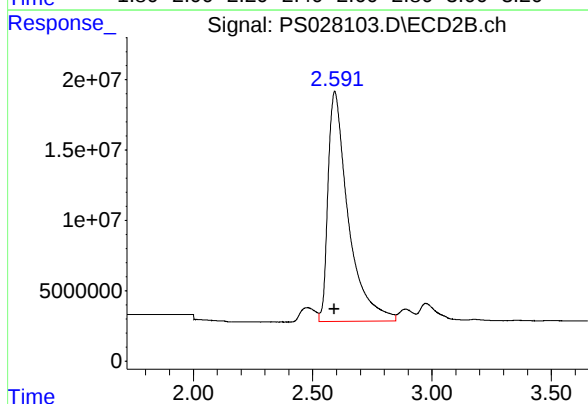




#1 Dalapon

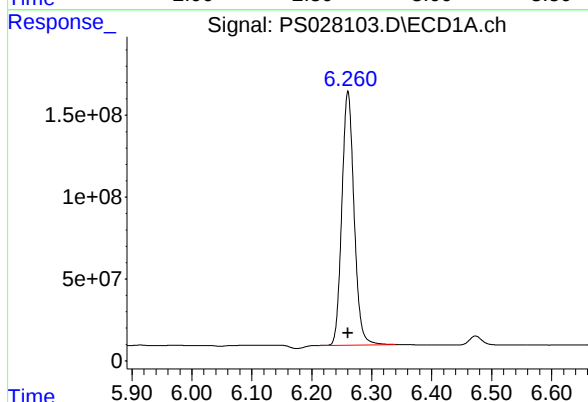
R.T.: 2.523 min
Delta R.T.: 0.000 min
Response: 1907036847
Conc: 481.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



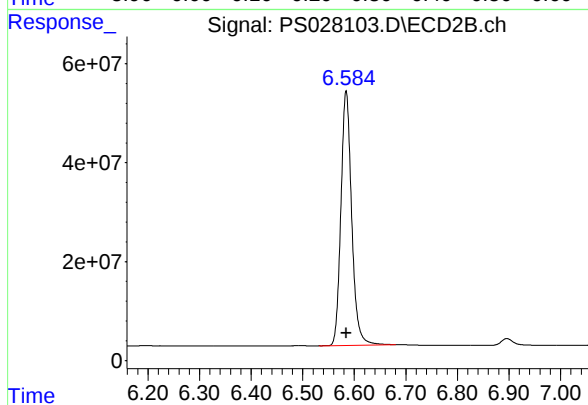
#1 Dalapon

R.T.: 2.592 min
Delta R.T.: 0.000 min
Response: 963984631
Conc: 451.45 ng/ml



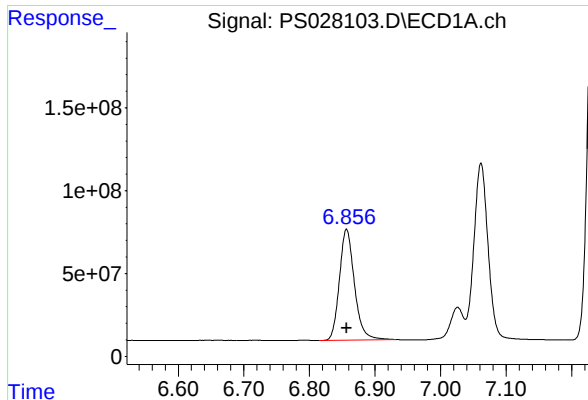
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.260 min
Delta R.T.: 0.000 min
Response: 2193560068
Conc: 493.28 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

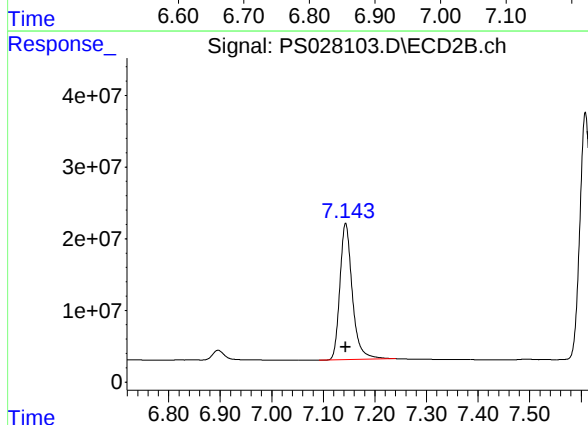
R.T.: 6.584 min
Delta R.T.: 0.000 min
Response: 745906832
Conc: 498.06 ng/ml



#3 4-Nitrophenol

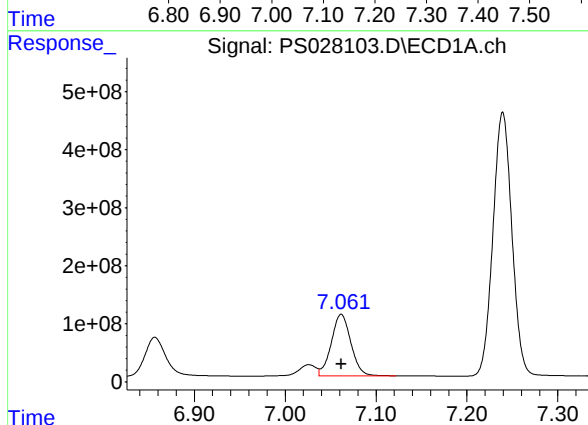
R.T.: 6.857 min
Delta R.T.: 0.000 min
Response: 1064946137
Conc: 462.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



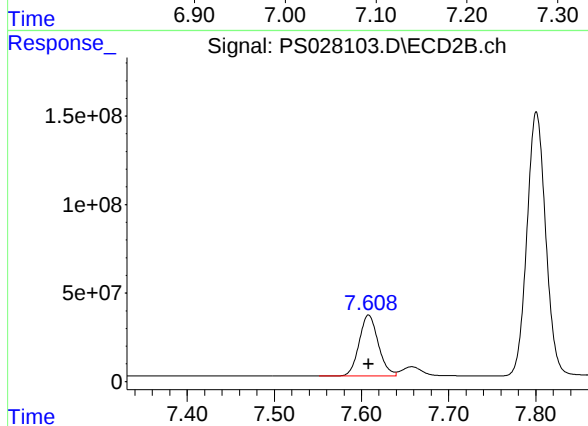
#3 4-Nitrophenol

R.T.: 7.143 min
Delta R.T.: 0.000 min
Response: 318559476
Conc: 484.23 ng/ml



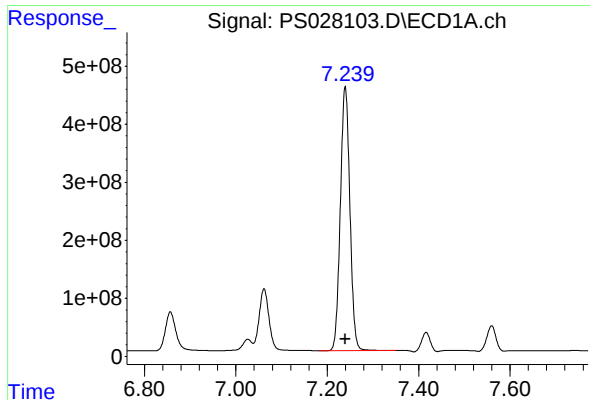
#4 2,4-DCAA

R.T.: 7.062 min
Delta R.T.: 0.000 min
Response: 1594225355
Conc: 531.55 ng/ml



#4 2,4-DCAA

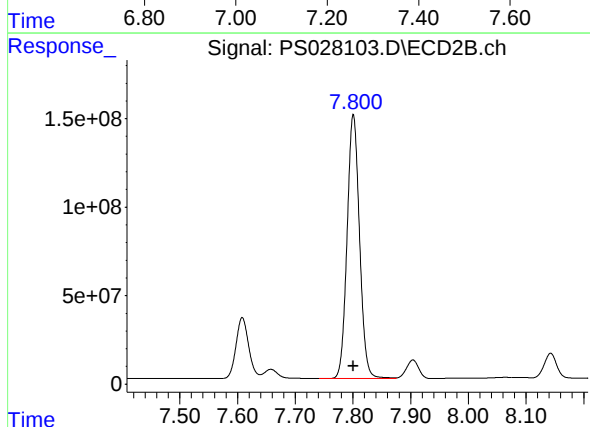
R.T.: 7.608 min
Delta R.T.: 0.000 min
Response: 526333756
Conc: 546.01 ng/ml



#5 DICAMBA

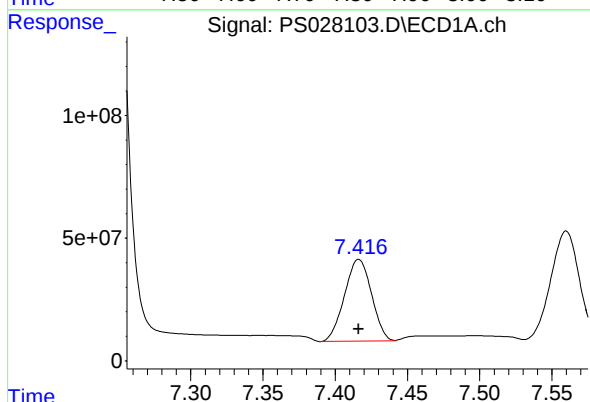
R.T.: 7.239 min
Delta R.T.: 0.000 min
Response: 6578515638
Conc: 492.86 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



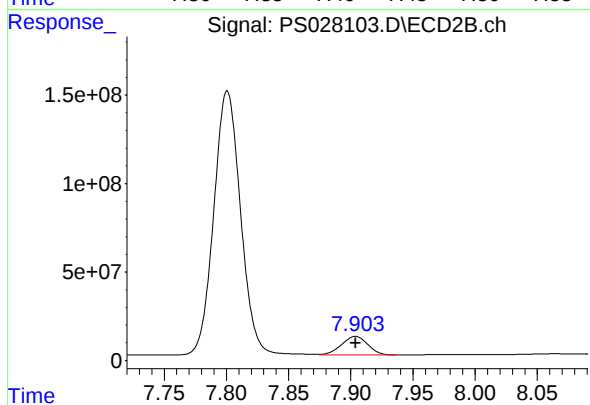
#5 DICAMBA

R.T.: 7.801 min
Delta R.T.: 0.000 min
Response: 2234625982
Conc: 497.90 ng/ml



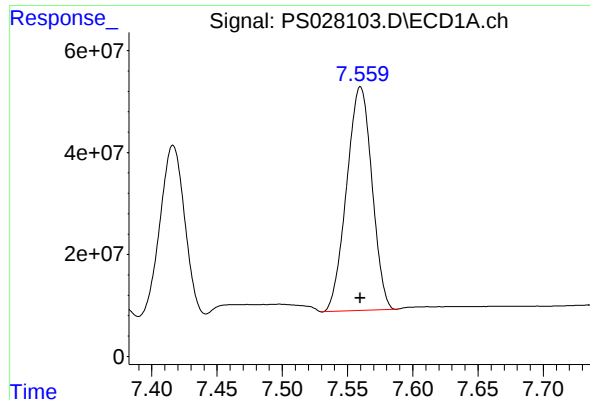
#6 MCPP

R.T.: 7.416 min
Delta R.T.: 0.000 min
Response: 432696271
Conc: 44.54 ug/ml



#6 MCPP

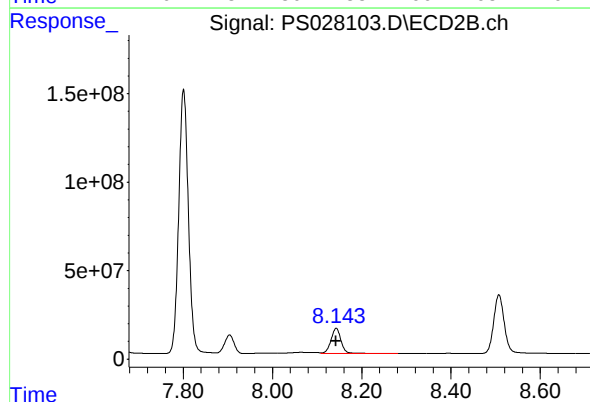
R.T.: 7.904 min
Delta R.T.: 0.000 min
Response: 153338684
Conc: 48.99 ug/ml



#7 MCPA

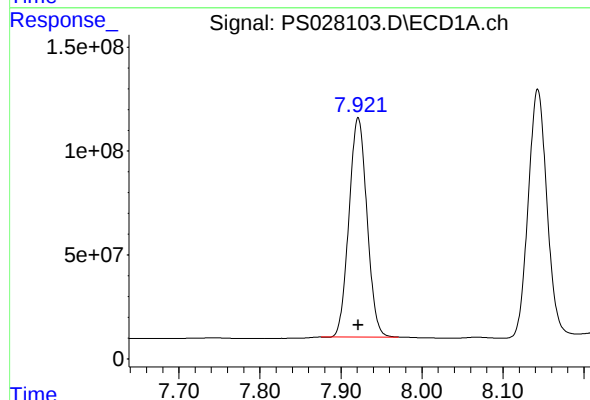
R.T.: 7.560 min
Delta R.T.: 0.000 min
Response: 592638952
Conc: 45.05 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



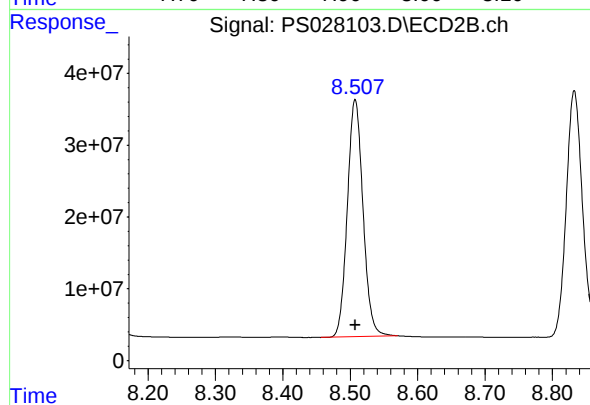
#7 MCPA

R.T.: 8.143 min
Delta R.T.: 0.000 min
Response: 220231423
Conc: 50.44 ug/ml



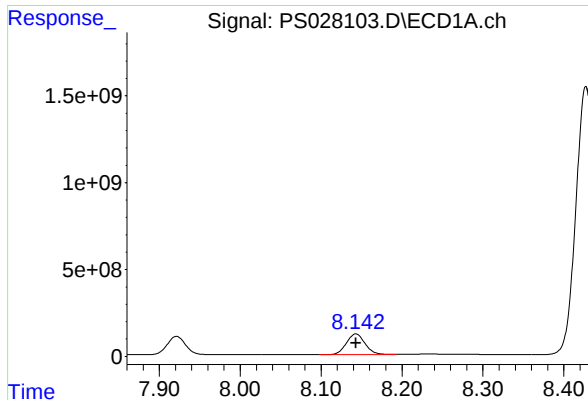
#8 DICHLORPROP

R.T.: 7.921 min
Delta R.T.: 0.000 min
Response: 1629609883
Conc: 498.01 ng/ml



#8 DICHLORPROP

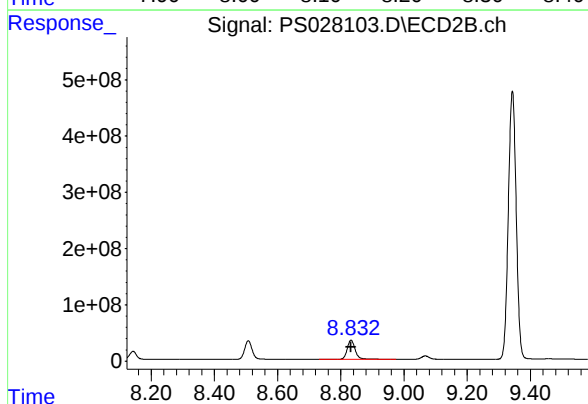
R.T.: 8.507 min
Delta R.T.: 0.000 min
Response: 534800843
Conc: 506.75 ng/ml



#9 2,4-D

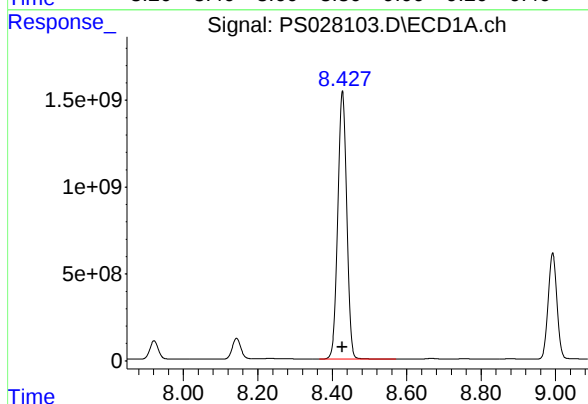
R.T.: 8.143 min
Delta R.T.: 0.000 min
Response: 1941426877
Conc: 497.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



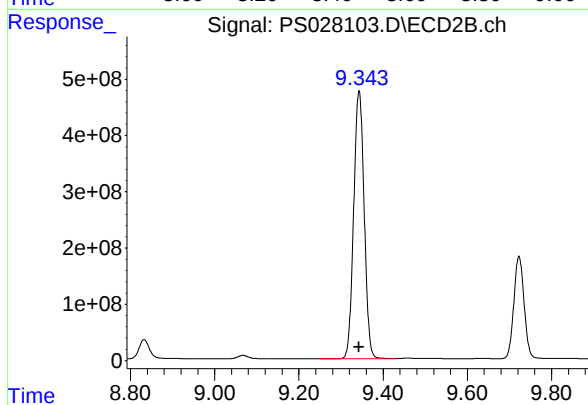
#9 2,4-D

R.T.: 8.832 min
Delta R.T.: 0.000 min
Response: 593174120
Conc: 502.14 ng/ml



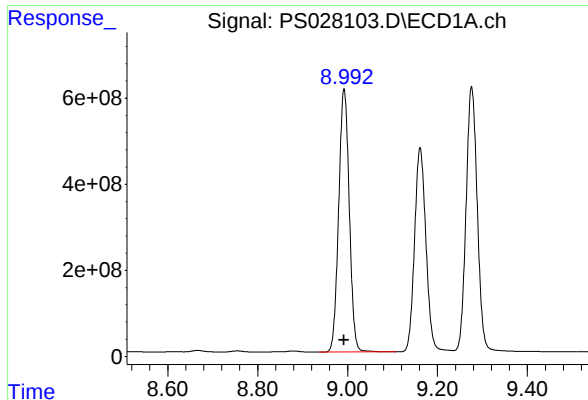
#10 Pentachlorophenol

R.T.: 8.427 min
Delta R.T.: 0.000 min
Response: 25854650169
Conc: 554.47 ng/ml



#10 Pentachlorophenol

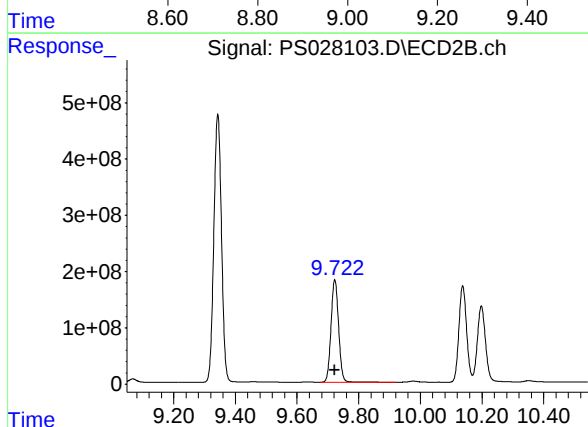
R.T.: 9.343 min
Delta R.T.: 0.000 min
Response: 8238994440
Conc: 506.56 ng/ml



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

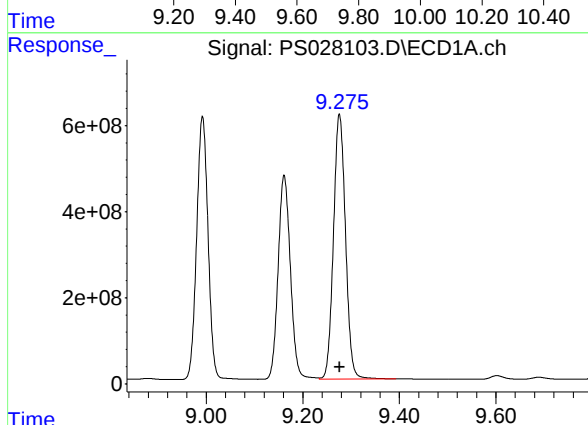
R.T.: 8.992 min
Delta R.T.: 0.000 min
Response: 9989628898
Conc: 505.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



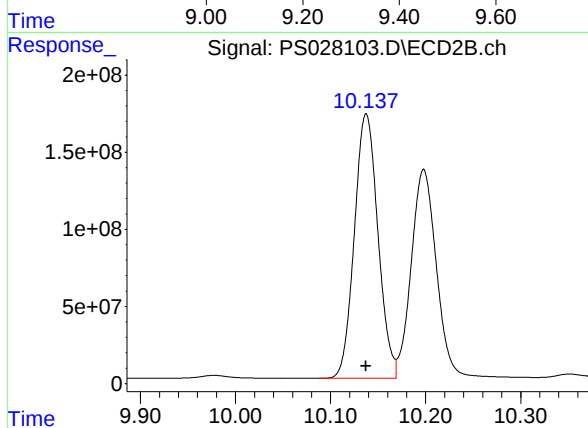
#11 2,4,5-TP (SILVEX)

R.T.: 9.723 min
Delta R.T.: 0.000 min
Response: 3104487957
Conc: 495.70 ng/ml



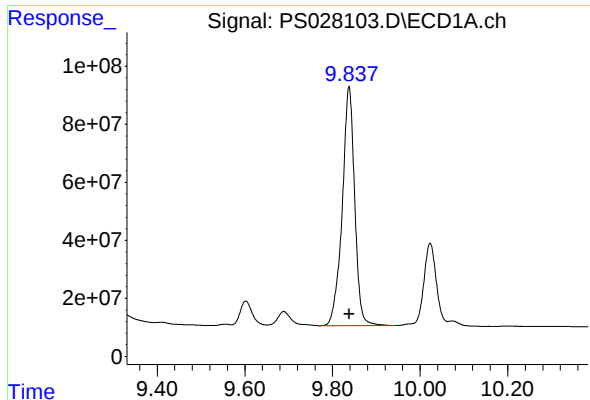
#12 2,4,5-T

R.T.: 9.276 min
Delta R.T.: 0.000 min
Response: 10656632202
Conc: 508.01 ng/ml



#12 2,4,5-T

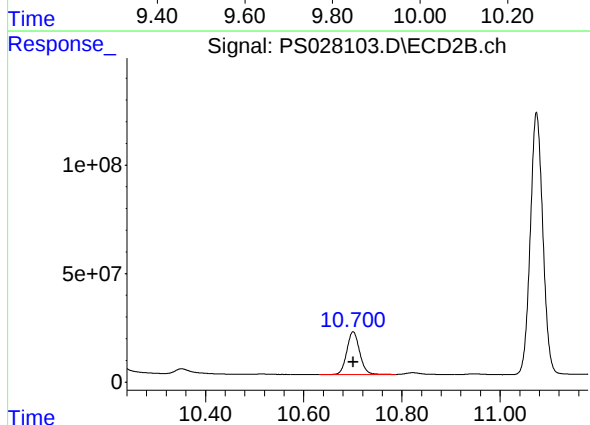
R.T.: 10.138 min
Delta R.T.: 0.000 min
Response: 2954426714
Conc: 487.78 ng/ml



#13 2,4-DB

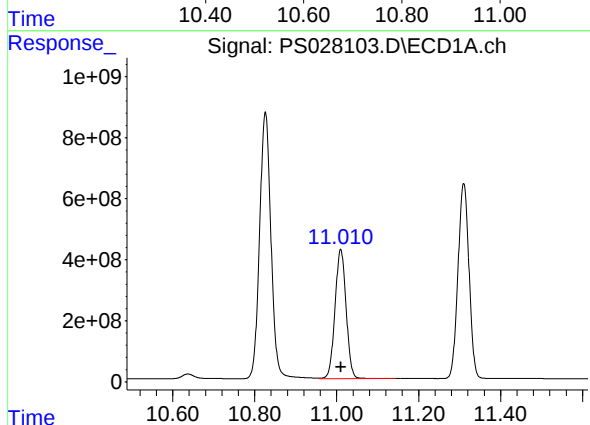
R.T.: 9.838 min
Delta R.T.: 0.000 min
Response: 1628605590
Conc: 490.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



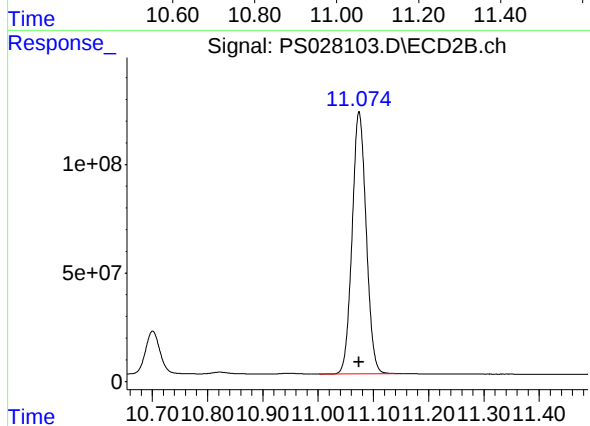
#13 2,4-DB

R.T.: 10.701 min
Delta R.T.: 0.000 min
Response: 357067664
Conc: 478.33 ng/ml



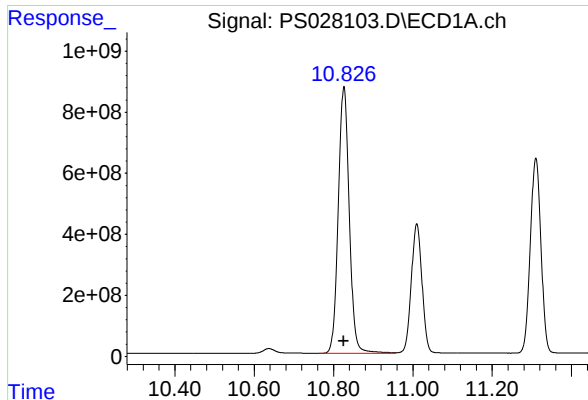
#14 DINOSEB

R.T.: 11.010 min
Delta R.T.: 0.000 min
Response: 7942630336
Conc: 497.29 ng/ml



#14 DINOSEB

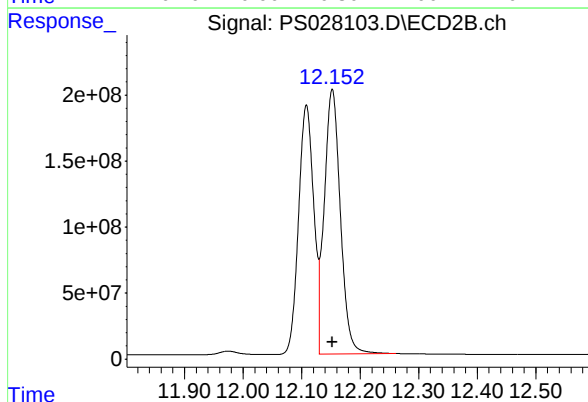
R.T.: 11.074 min
Delta R.T.: 0.000 min
Response: 2132032889
Conc: 478.05 ng/ml



#15 Picloram

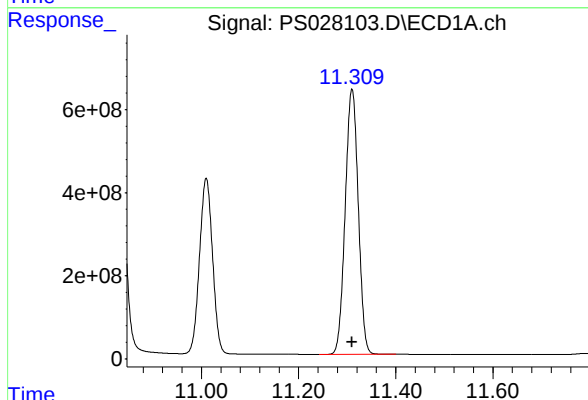
R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 16820297392
Conc: 498.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



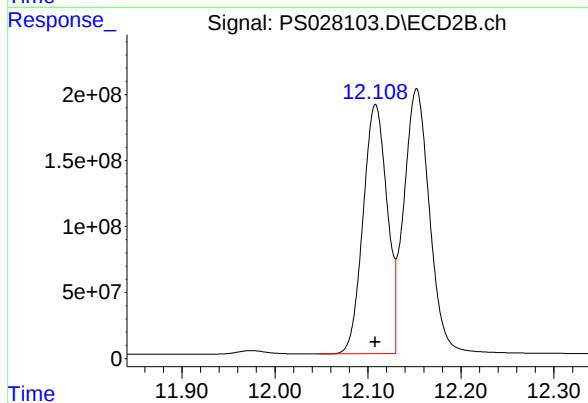
#15 Picloram

R.T.: 12.152 min
Delta R.T.: 0.000 min
Response: 3840810217
Conc: 457.98 ng/ml



#16 DCPA

R.T.: 11.310 min
Delta R.T.: 0.000 min
Response: 11907843648
Conc: 516.21 ng/ml



#16 DCPA

R.T.: 12.108 min
Delta R.T.: 0.000 min
Response: 3387421442
Conc: 484.54 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
 Data File : PS028104.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Oct 2024 11:39
 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: Oct 31 13:01:23 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:01:00 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	7.062	7.605	2283.8E6	698.2E6	750.000	750.000
Target Compounds						
1) T Dalapon	2.524	2.592	2722.2E6	1463.0E6	682.500	682.500
2) T 3,5-DICHL...	6.261	6.582	3166.8E6	1020.0E6	697.500	697.500
3) T 4-Nitroph...	6.857	7.140	1578.1E6	442.8E6	682.500	682.500
5) T DICAMBA	7.240	7.798	9586.8E6	3044.9E6	705.000	705.000
6) T MCPP	7.418	7.903	681.5E6	209.0E6	70.500	70.500
7) T MCPA	7.562	8.142	920.8E6	292.1E6	69.750	69.750
8) T DICHLORPROP	7.921	8.504	2349.8E6	729.3E6	705.000	705.000
9) T 2,4-D	8.142	8.828	2811.0E6	818.9E6	705.000	705.000
10) T Pentachlo...	8.428	9.339	36964.4E6	11594.4E6	712.500	712.500
11) T 2,4,5-TP ...	8.993	9.720	14462.6E6	4410.4E6	712.500	712.500
12) T 2,4,5-T	9.276	10.134	15361.0E6	4317.1E6	712.500	712.500
13) T 2,4-DB	9.837	10.697	2400.7E6	526.8E6	712.500	712.500
14) T DINOSEB	11.010	11.071	11515.1E6	3146.7E6	705.000	705.000
15) T Picloram	10.826	12.148	24668.3E6	6027.1E6	712.500	712.500
16) T DCPA	11.310	12.105	17125.0E6	5103.8E6	720.000	720.000

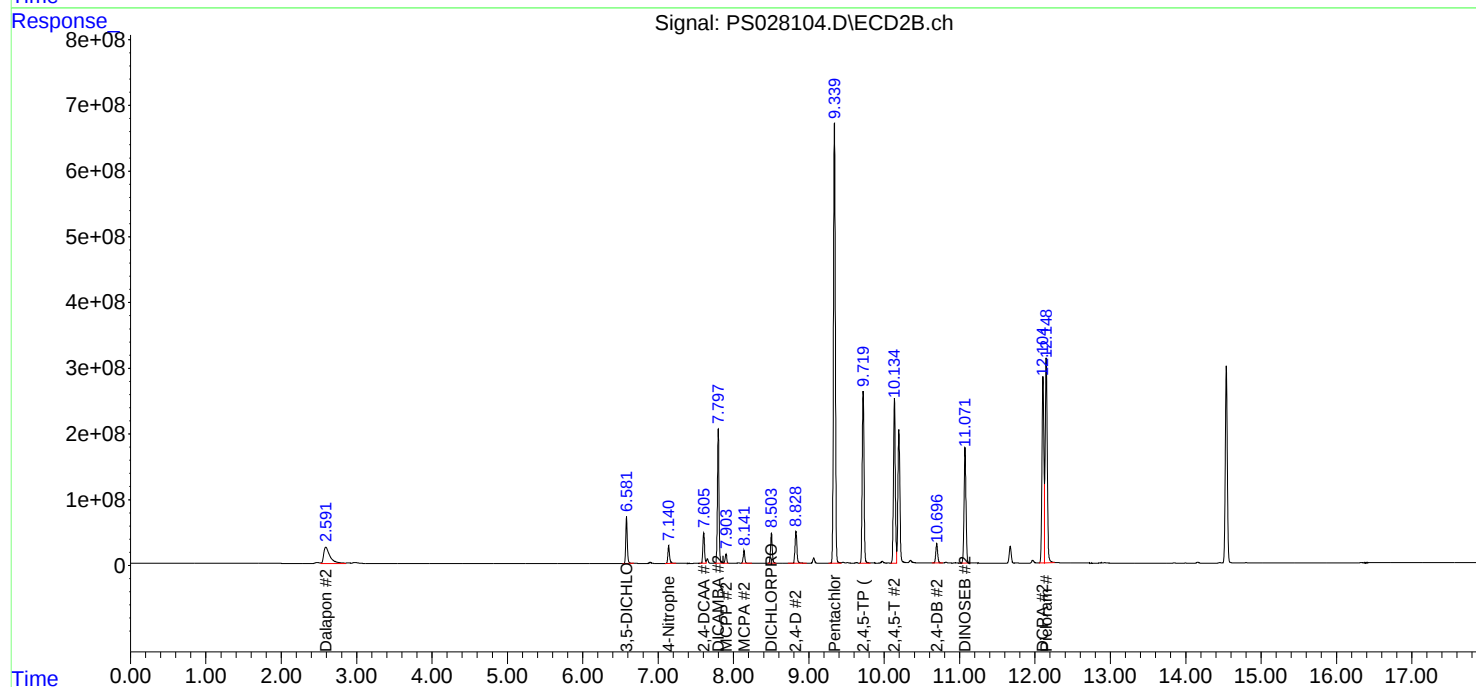
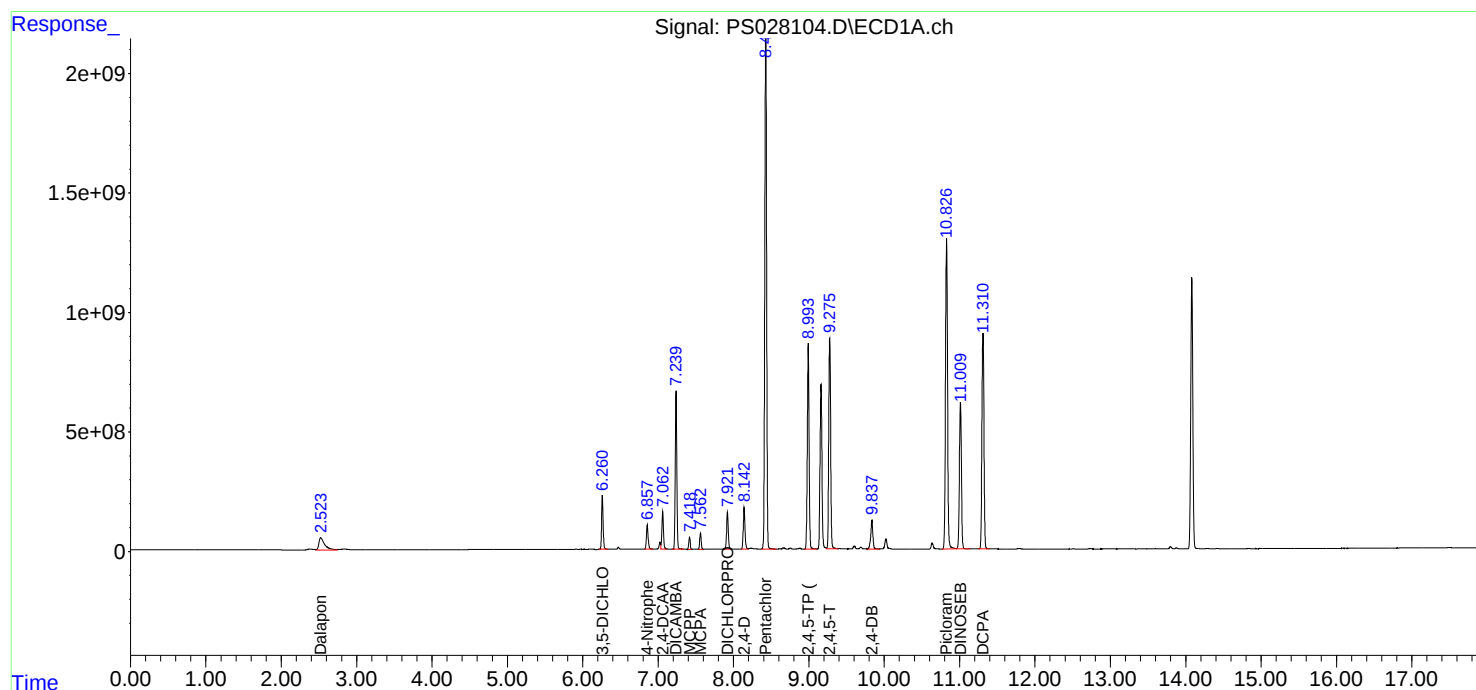
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

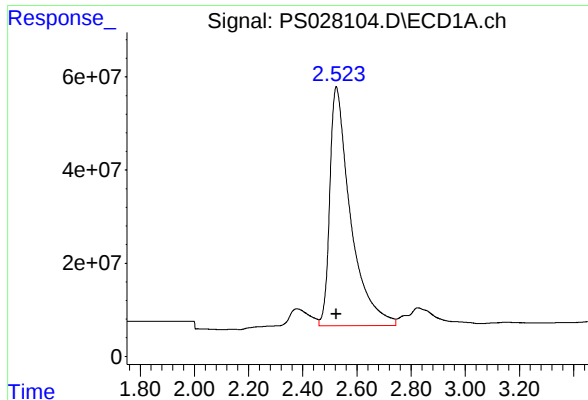
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028104.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 11:39
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 31 13:01:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:01:00 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

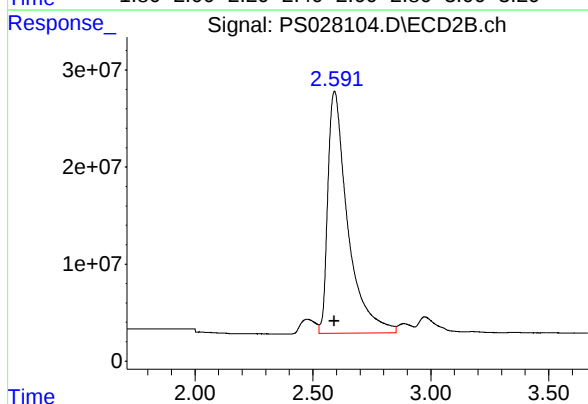




#1 Dalapon

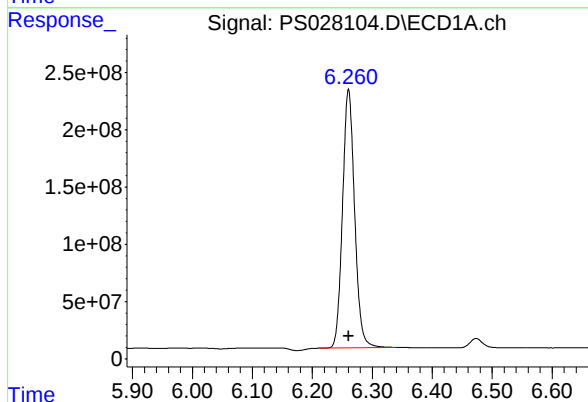
R.T.: 2.524 min
Delta R.T.: 0.000 min
Response: 2722172565
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



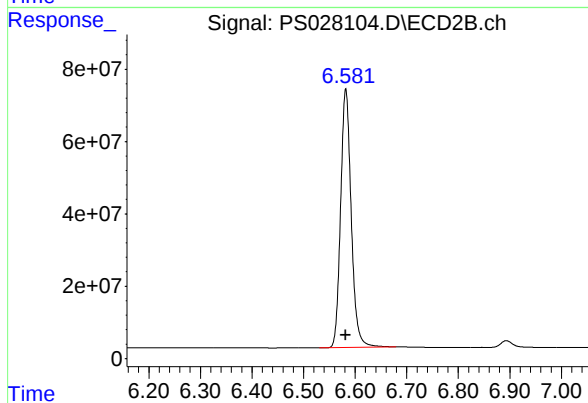
#1 Dalapon

R.T.: 2.592 min
Delta R.T.: 0.000 min
Response: 1462981132
Conc: 682.50 ng/ml



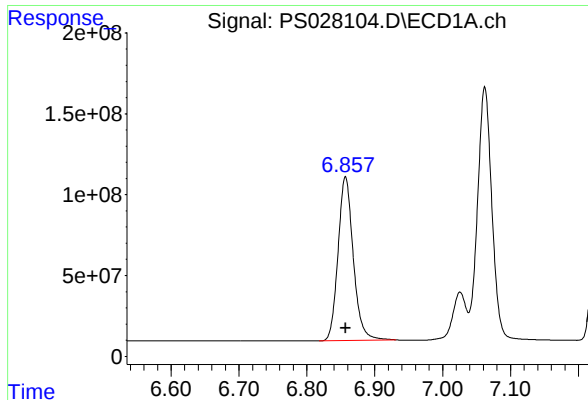
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.261 min
Delta R.T.: 0.000 min
Response: 3166756567
Conc: 697.50 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

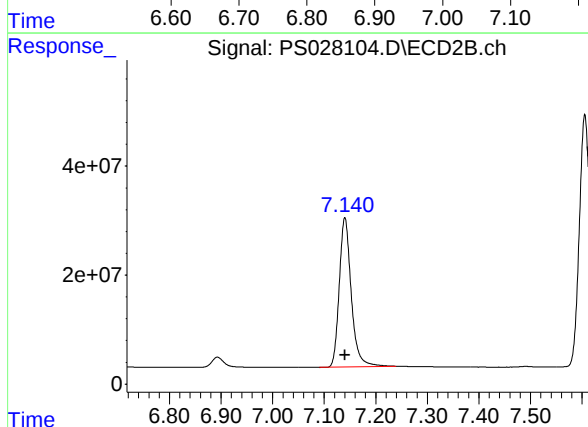
R.T.: 6.582 min
Delta R.T.: 0.000 min
Response: 1019993242
Conc: 697.50 ng/ml



#3 4-Nitrophenol

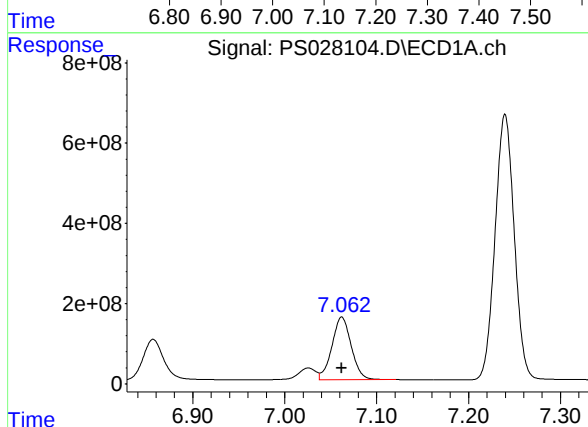
R.T.: 6.857 min
Delta R.T.: 0.000 min
Response: 1578098775
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



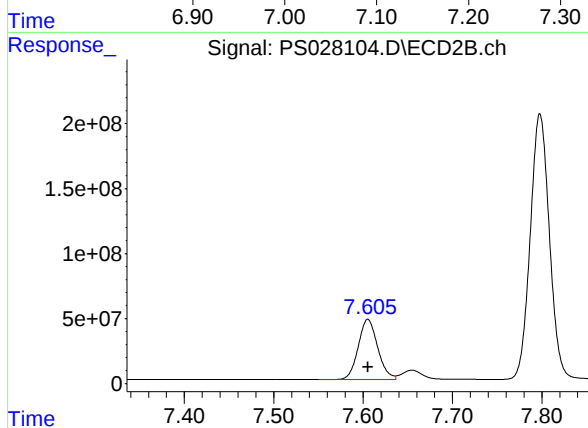
#3 4-Nitrophenol

R.T.: 7.140 min
Delta R.T.: 0.000 min
Response: 442752632
Conc: 682.50 ng/ml



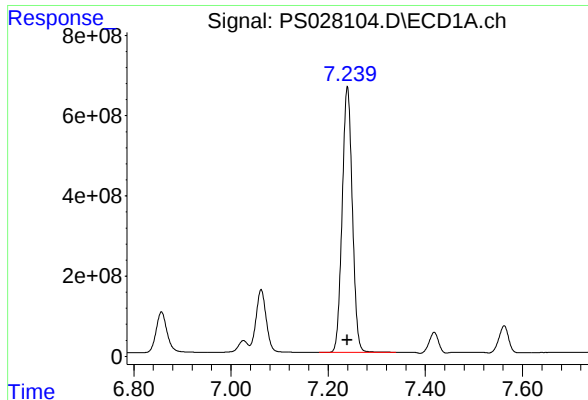
#4 2,4-DCAA

R.T.: 7.062 min
Delta R.T.: 0.000 min
Response: 2283833857
Conc: 750.00 ng/ml



#4 2,4-DCAA

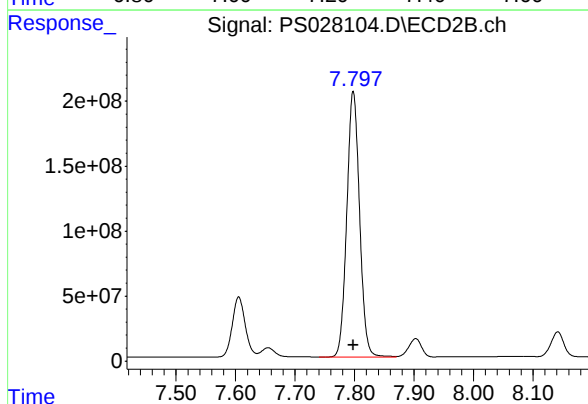
R.T.: 7.605 min
Delta R.T.: 0.000 min
Response: 698202275
Conc: 750.00 ng/ml



#5 DICAMBA

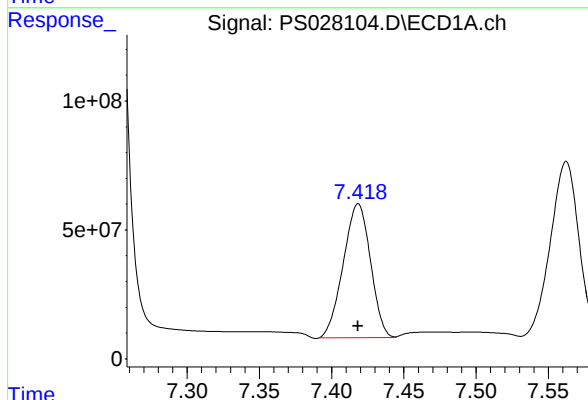
R.T.: 7.240 min
Delta R.T.: 0.000 min
Response: 9586759914
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



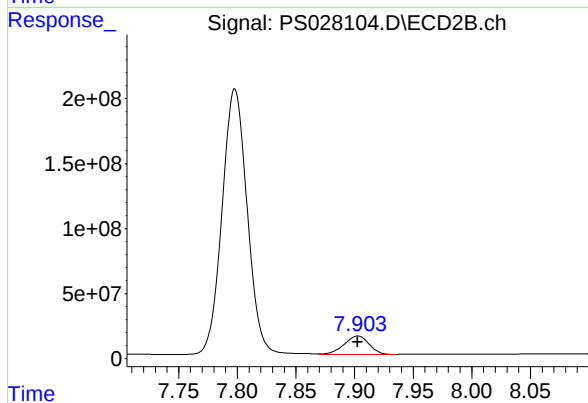
#5 DICAMBA

R.T.: 7.798 min
Delta R.T.: 0.000 min
Response: 3044870267
Conc: 705.00 ng/ml



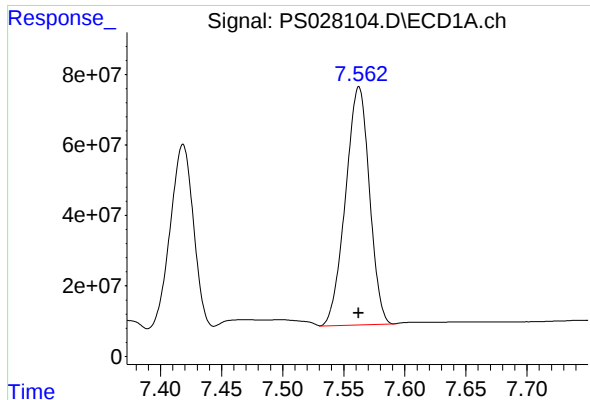
#6 MCPP

R.T.: 7.418 min
Delta R.T.: 0.000 min
Response: 681470495
Conc: 70.50 ug/ml



#6 MCPP

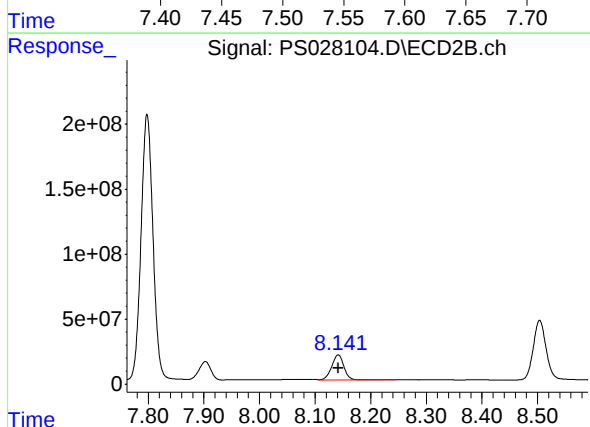
R.T.: 7.903 min
Delta R.T.: 0.000 min
Response: 208994944
Conc: 70.50 ug/ml



#7 MCPA

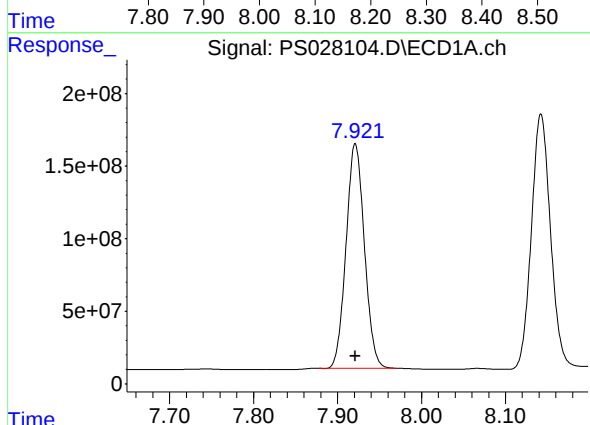
R.T.: 7.562 min
Delta R.T.: 0.000 min
Response: 920768100
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



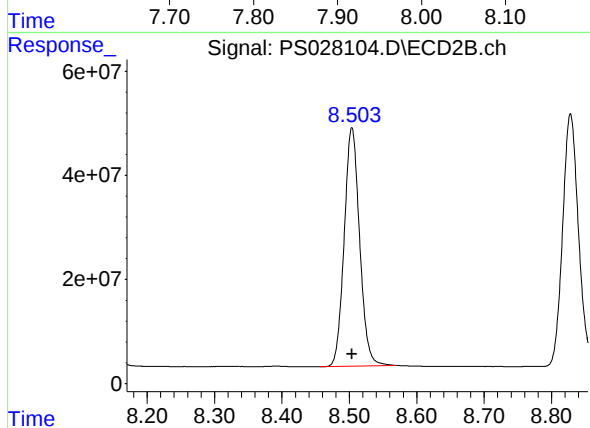
#7 MCPA

R.T.: 8.142 min
Delta R.T.: 0.000 min
Response: 292133072
Conc: 69.75 ug/ml



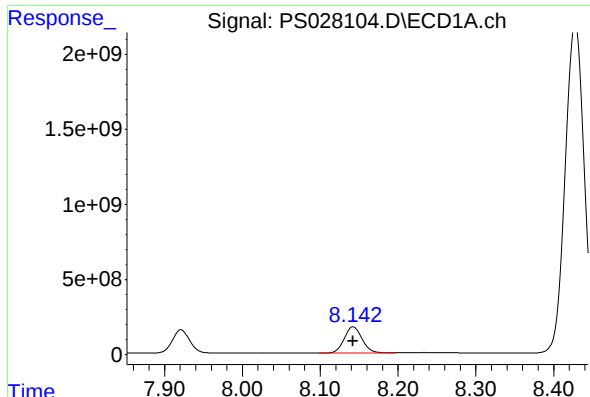
#8 DICHLORPROP

R.T.: 7.921 min
Delta R.T.: 0.000 min
Response: 2349794749
Conc: 705.00 ng/ml



#8 DICHLORPROP

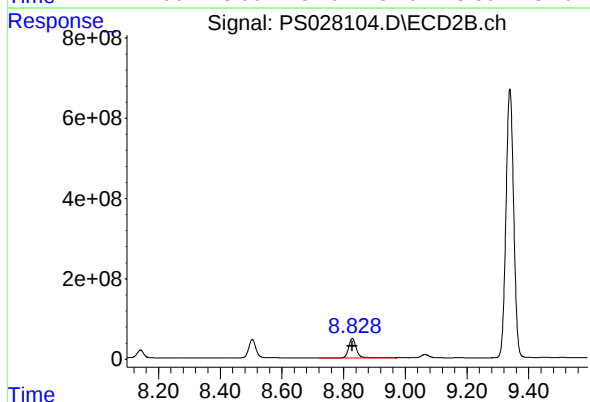
R.T.: 8.504 min
Delta R.T.: 0.000 min
Response: 729306602
Conc: 705.00 ng/ml



#9 2,4-D

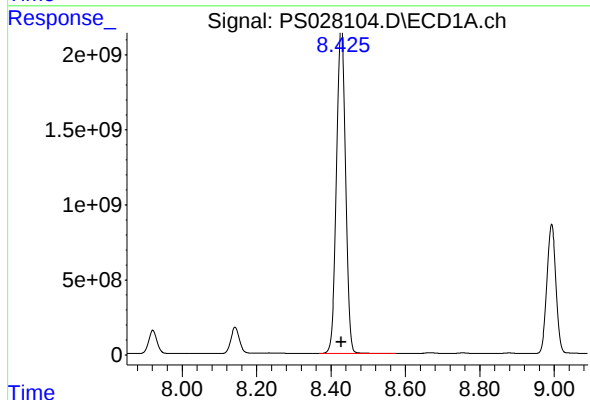
R.T.: 8.142 min
Delta R.T.: 0.000 min
Response: 2810998595
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



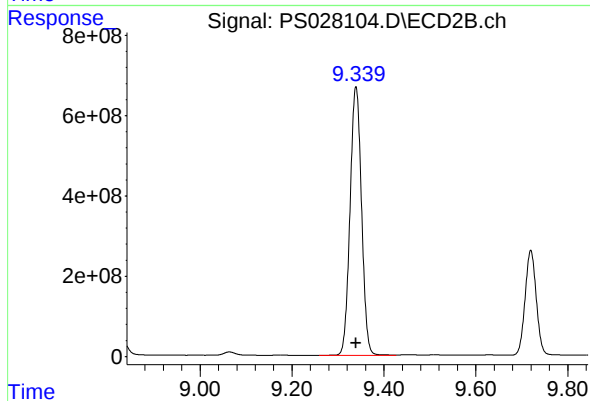
#9 2,4-D

R.T.: 8.828 min
Delta R.T.: 0.000 min
Response: 818899831
Conc: 705.00 ng/ml



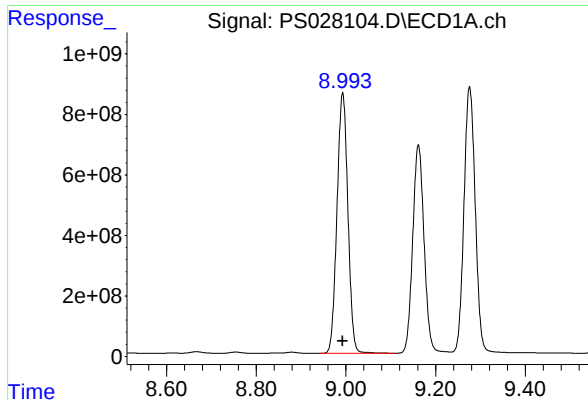
#10 Pentachlorophenol

R.T.: 8.428 min
Delta R.T.: 0.000 min
Response: 36964359670
Conc: 712.50 ng/ml



#10 Pentachlorophenol

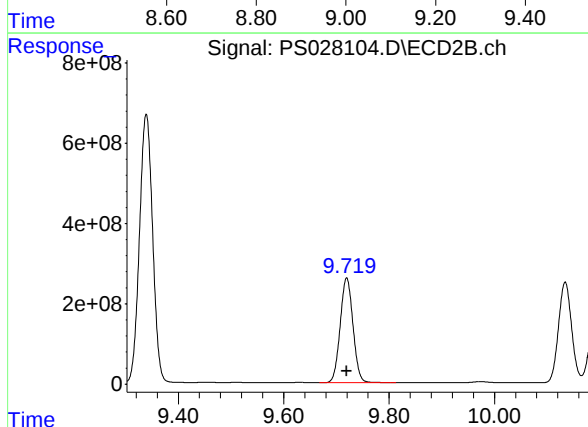
R.T.: 9.339 min
Delta R.T.: 0.000 min
Response: 11594361142
Conc: 712.50 ng/ml



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

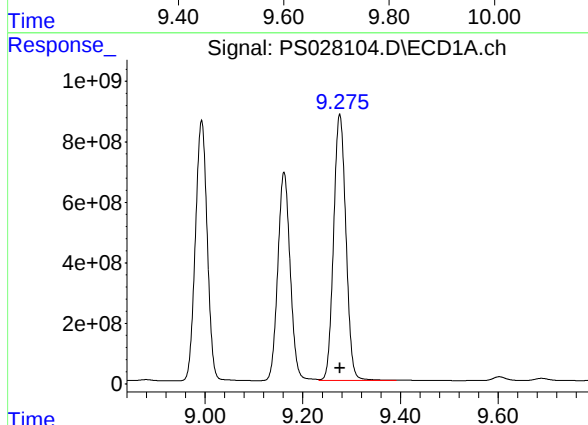
R.T.: 8.993 min
Delta R.T.: 0.000 min
Response: 14462640949
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



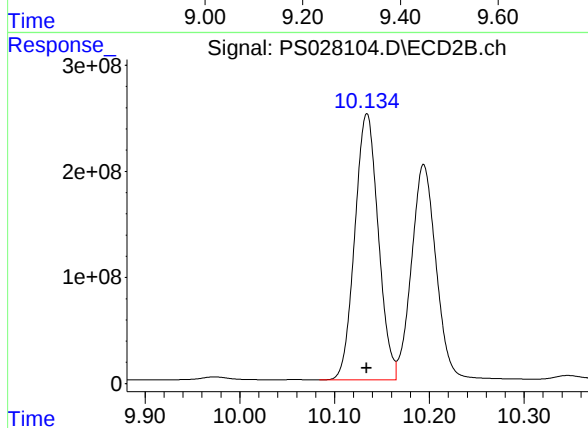
#11 2,4,5-TP (SILVEX)

R.T.: 9.720 min
Delta R.T.: 0.000 min
Response: 4410426565
Conc: 712.50 ng/ml



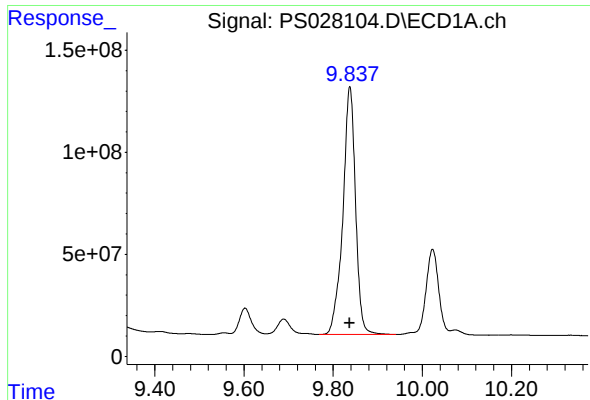
#12 2,4,5-T

R.T.: 9.276 min
Delta R.T.: 0.000 min
Response: 15360976354
Conc: 712.50 ng/ml



#12 2,4,5-T

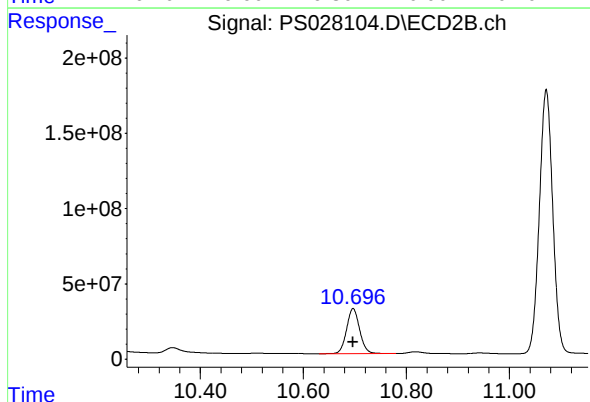
R.T.: 10.134 min
Delta R.T.: 0.000 min
Response: 4317090249
Conc: 712.50 ng/ml



#13 2,4-DB

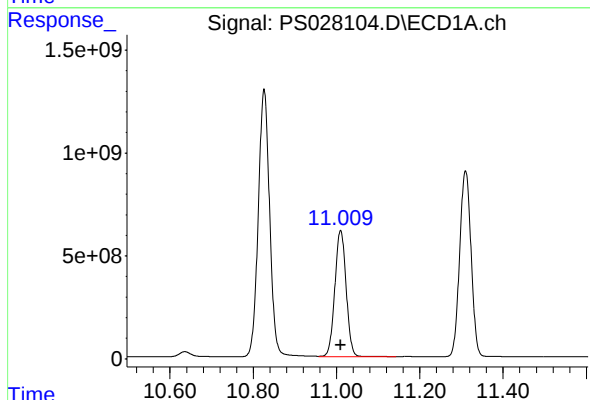
R.T.: 9.837 min
Delta R.T.: 0.000 min
Response: 2400701951
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



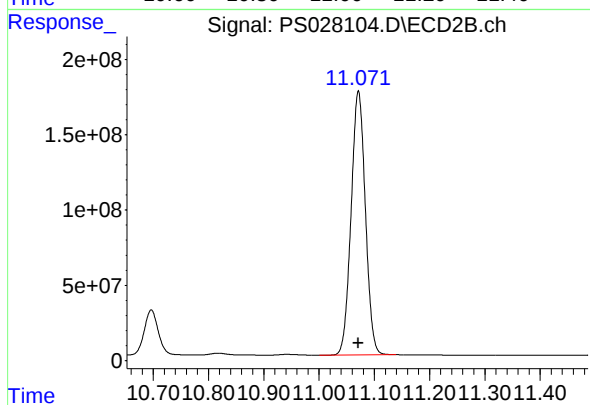
#13 2,4-DB

R.T.: 10.697 min
Delta R.T.: 0.000 min
Response: 526820649
Conc: 712.50 ng/ml



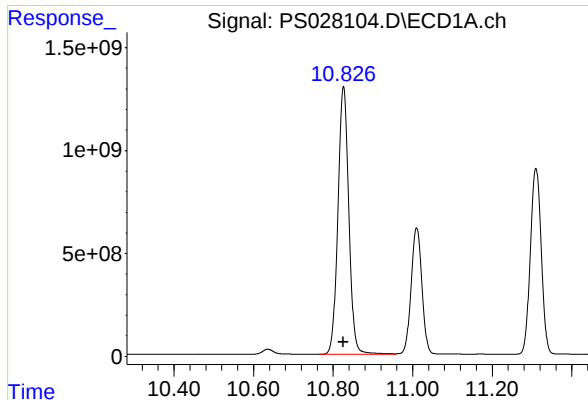
#14 DINOSEB

R.T.: 11.010 min
Delta R.T.: 0.000 min
Response: 11515089452
Conc: 705.00 ng/ml



#14 DINOSEB

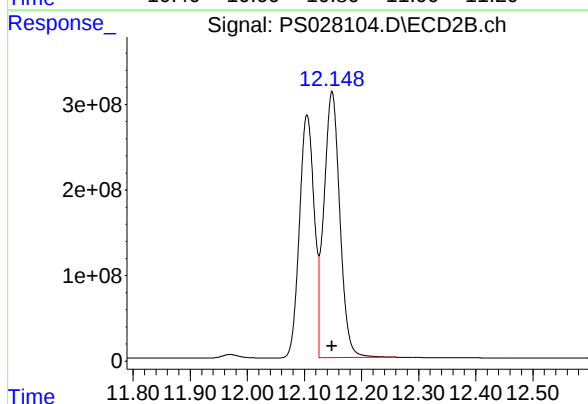
R.T.: 11.071 min
Delta R.T.: 0.000 min
Response: 3146715889
Conc: 705.00 ng/ml



#15 Picloram

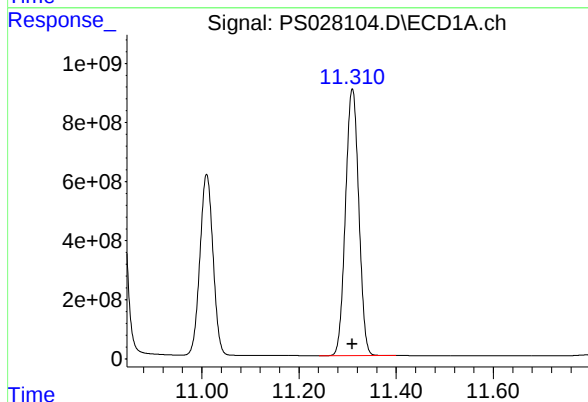
R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 24668338048
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



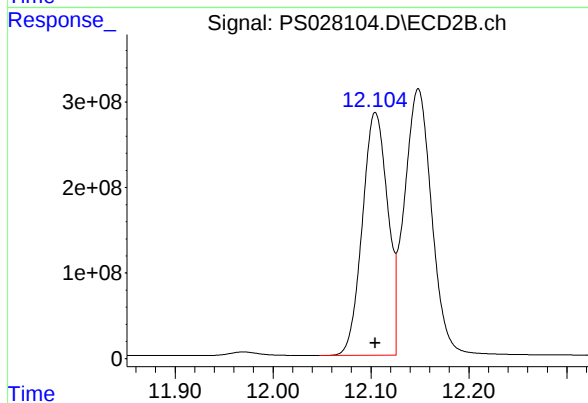
#15 Picloram

R.T.: 12.148 min
Delta R.T.: 0.000 min
Response: 6027103374
Conc: 712.50 ng/ml



#16 DCPA

R.T.: 11.310 min
Delta R.T.: 0.000 min
Response: 17125035155
Conc: 720.00 ng/ml



#16 DCPA

R.T.: 12.105 min
Delta R.T.: 0.000 min
Response: 5103785909
Conc: 720.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
 Data File : PS028105.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Oct 2024 12:03
 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: Oct 31 13:04:26 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:01:00 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	7.062	7.609	2927.2E6	911.4E6	996.968	975.428
Target Compounds						
1) T Dalapon	2.525	2.595	3511.6E6	1904.6E6	904.566	889.647
2) T 3,5-DICHL...	6.261	6.586	4031.5E6	1315.7E6	925.352	899.863
3) T 4-Nitroph...	6.857	7.144	2065.2E6	574.4E6	902.861	892.207
5) T DICAMBA	7.240	7.803	12331.6E6	4042.4E6	939.109	918.861
6) T MCPP	7.420	7.909	922.7E6	282.0E6	93.353	91.369
7) T MCPA	7.565	8.148	1222.8E6	389.1E6	91.995	91.691
8) T DICHLORPROP	7.922	8.509	2995.0E6	948.3E6	933.819	922.659
9) T 2,4-D	8.143	8.833	3581.4E6	1067.7E6	934.885	924.963
10) T Pentachlo...	8.427	9.344	43035.7E6	14954.2E6	977.450	940.245
11) T 2,4,5-TP ...	8.993	9.724	18309.3E6	5770.6E6	947.901	934.982
12) T 2,4,5-T	9.277	10.139	19441.5E6	5634.6E6	948.759	938.702
13) T 2,4-DB	9.838	10.701	3100.8E6	700.5E6	943.301	940.612
14) T DINOSEB	11.011	11.076	14690.5E6	4161.1E6	937.937	938.381
15) T Picloram	10.826	12.153	31669.5E6	7995.7E6	954.640	942.165
16) T DCPA	11.311	12.110	21541.4E6	6666.9E6	957.907	956.660

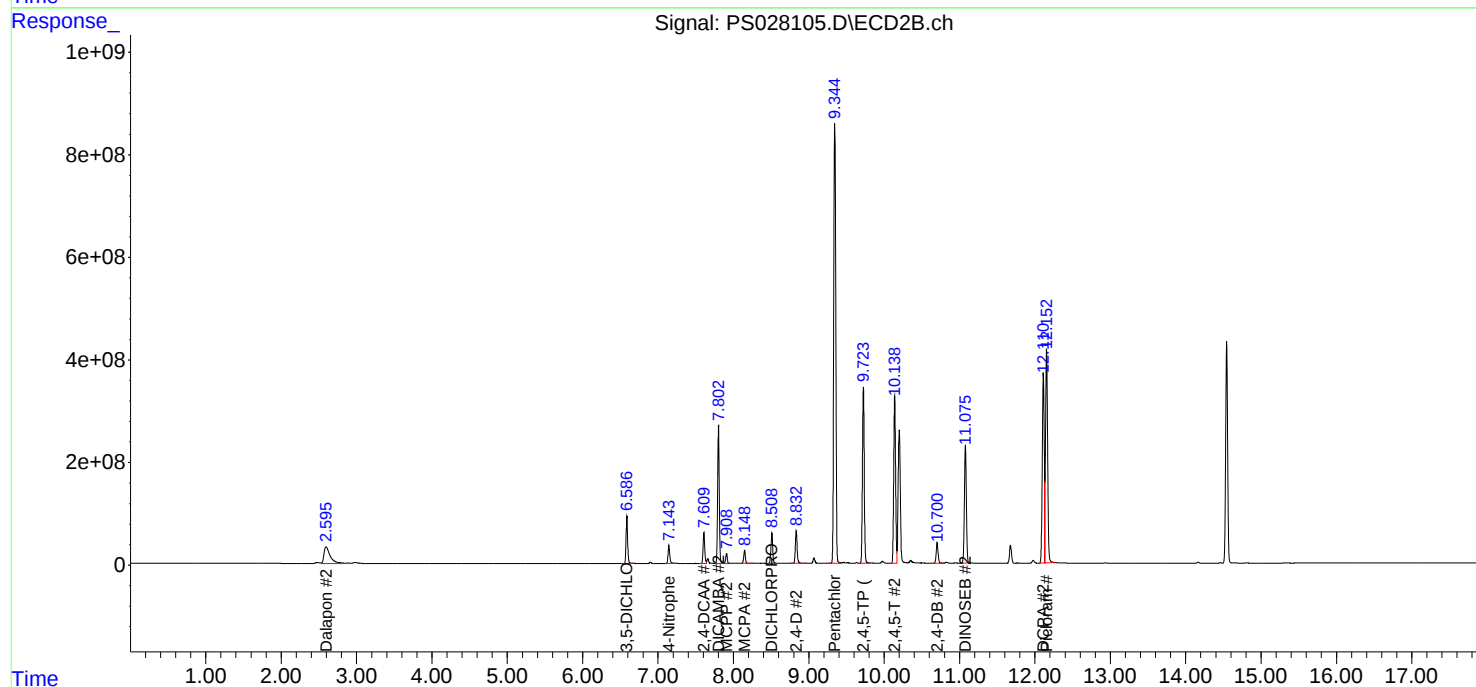
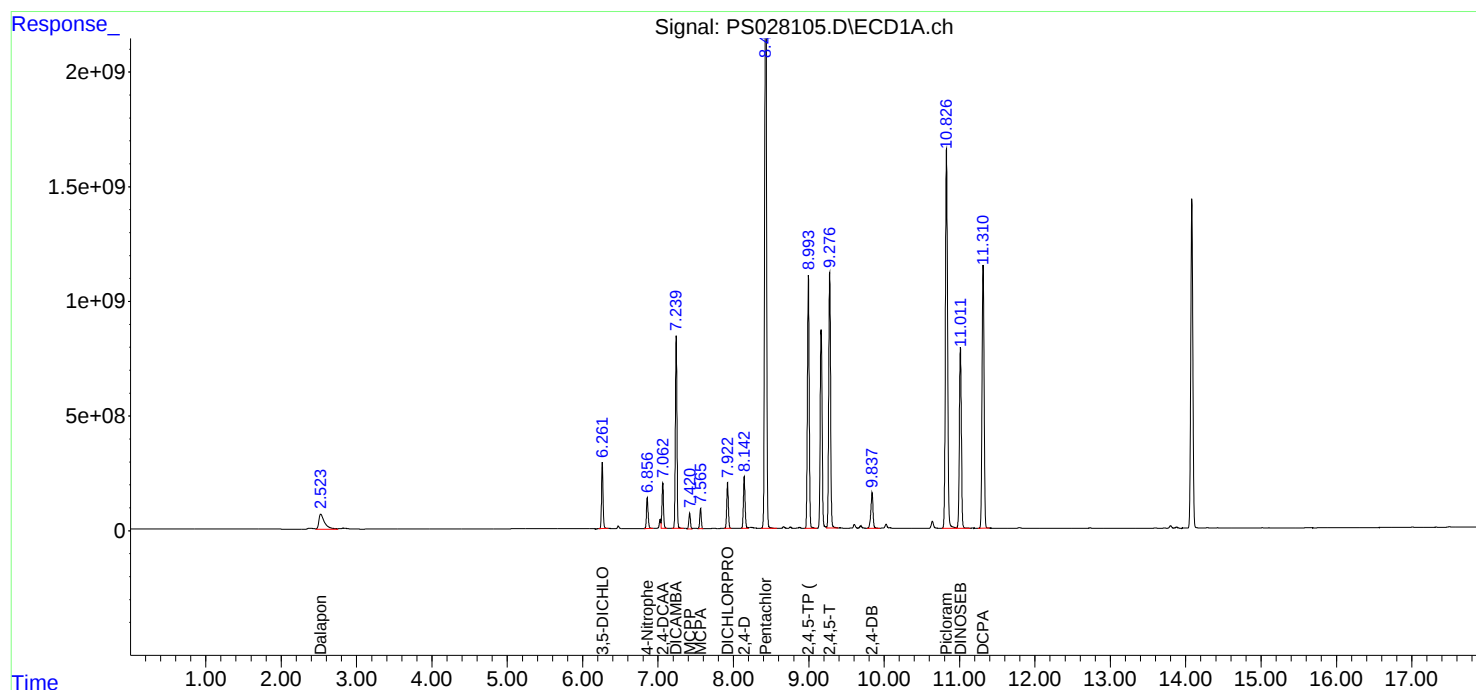
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

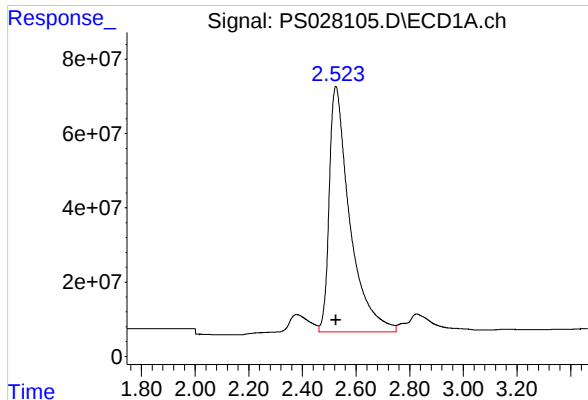
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028105.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 12:03
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 31 13:04:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:01:00 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

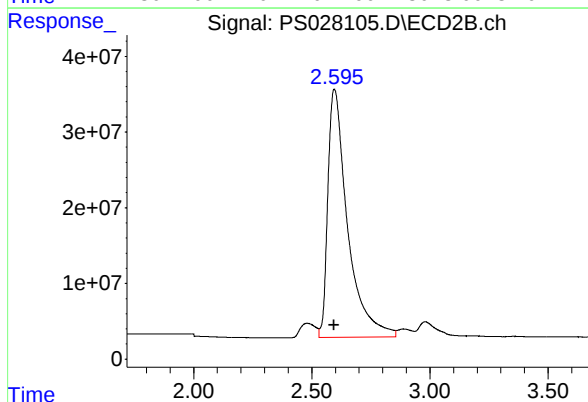




#1 Dalapon

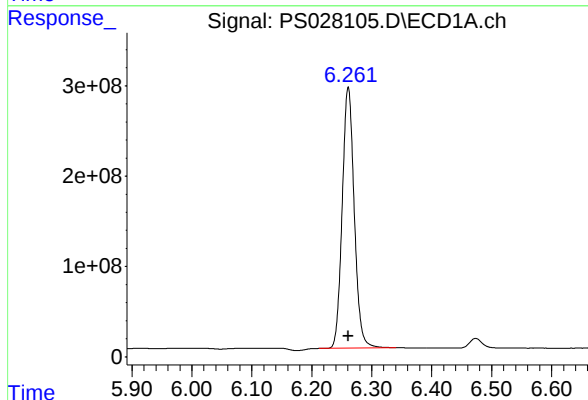
R.T.: 2.525 min
Delta R.T.: 0.000 min
Response: 3511643763
Conc: 904.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



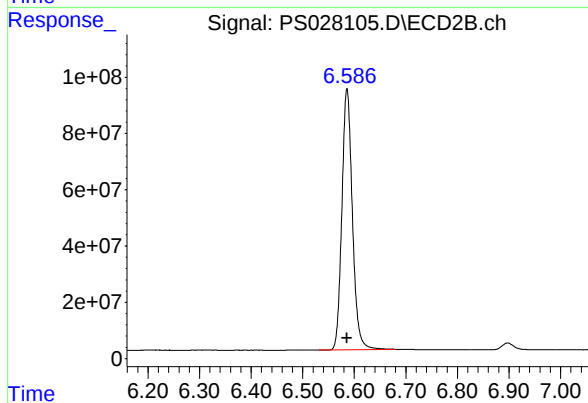
#1 Dalapon

R.T.: 2.595 min
Delta R.T.: 0.000 min
Response: 1904619468
Conc: 889.65 ng/ml



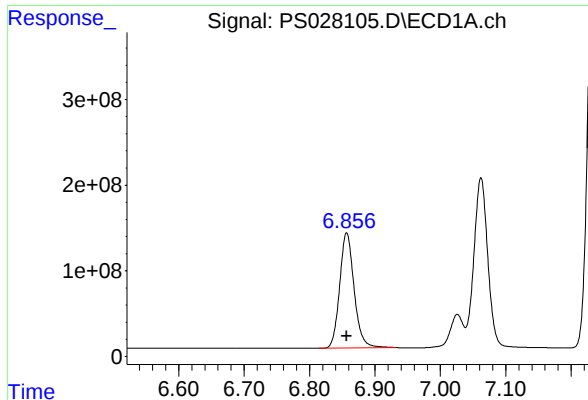
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.261 min
Delta R.T.: 0.000 min
Response: 4031540687
Conc: 925.35 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

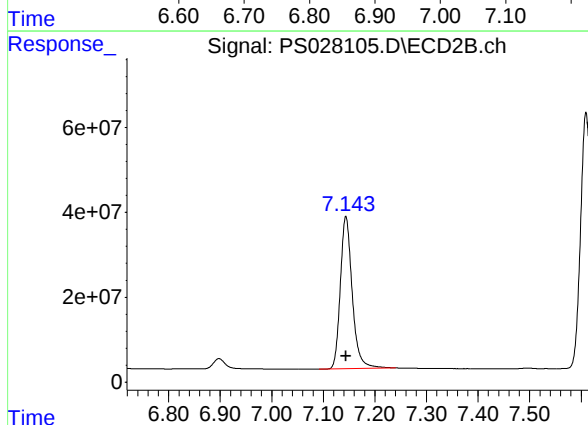
R.T.: 6.586 min
Delta R.T.: 0.000 min
Response: 1315722636
Conc: 899.86 ng/ml



#3 4-Nitrophenol

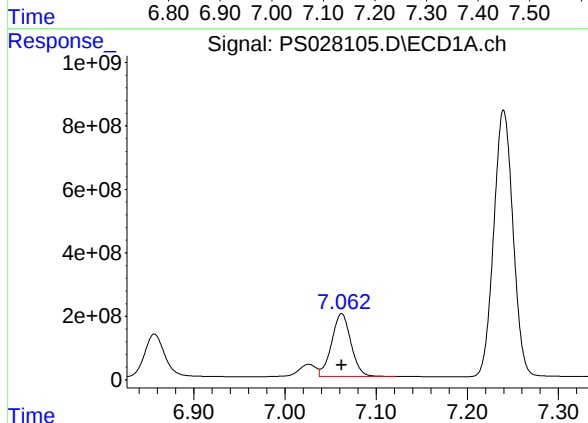
R.T.: 6.857 min
Delta R.T.: 0.000 min
Response: 2065174835
Conc: 902.86 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



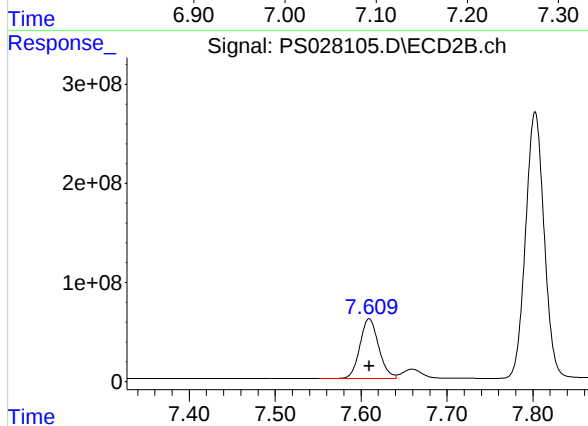
#3 4-Nitrophenol

R.T.: 7.144 min
Delta R.T.: 0.000 min
Response: 574378638
Conc: 892.21 ng/ml



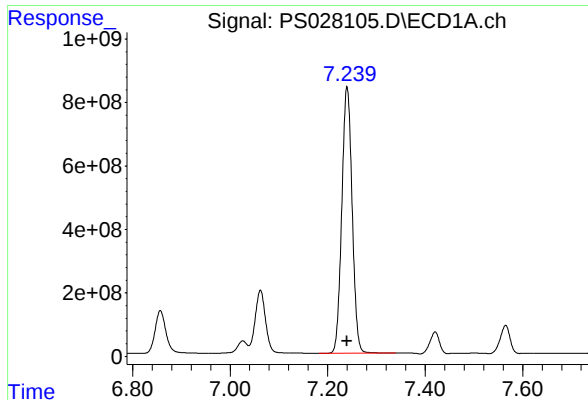
#4 2,4-DCAA

R.T.: 7.062 min
Delta R.T.: 0.000 min
Response: 2927178466
Conc: 996.97 ng/ml



#4 2,4-DCAA

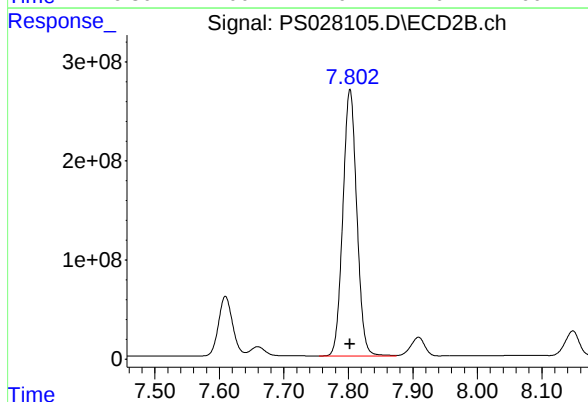
R.T.: 7.609 min
Delta R.T.: 0.000 min
Response: 911428516
Conc: 975.43 ng/ml



#5 DICAMBA

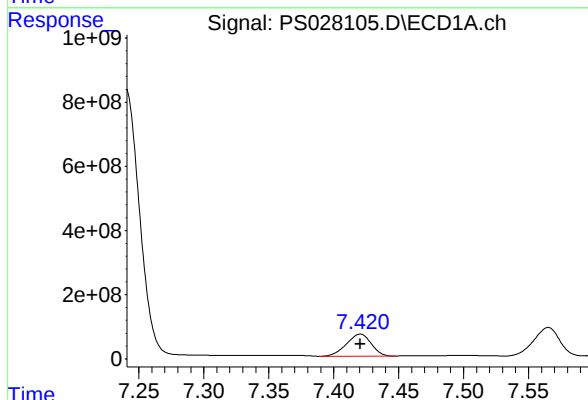
R.T.: 7.240 min
Delta R.T.: 0.000 min
Response: 12331605573
Conc: 939.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



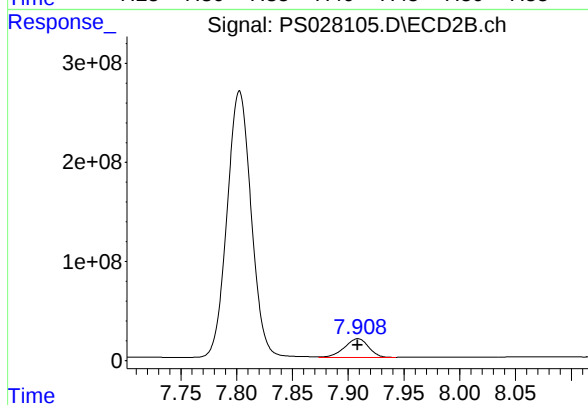
#5 DICAMBA

R.T.: 7.803 min
Delta R.T.: 0.000 min
Response: 4042354445
Conc: 918.86 ng/ml



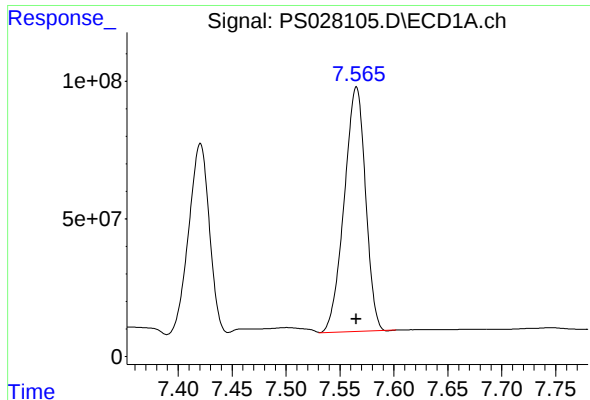
#6 MCPP

R.T.: 7.420 min
Delta R.T.: 0.000 min
Response: 922686016
Conc: 93.35 ug/ml



#6 MCPP

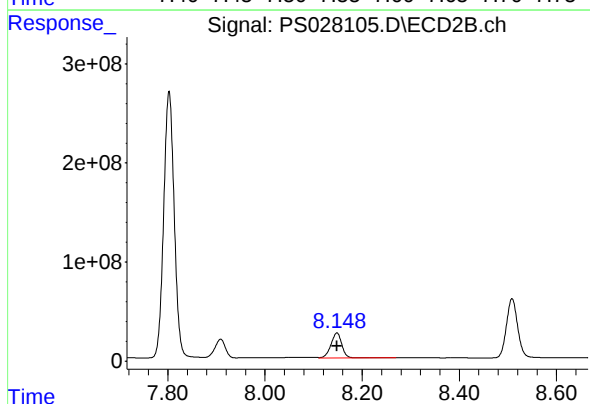
R.T.: 7.909 min
Delta R.T.: 0.000 min
Response: 281961341
Conc: 91.37 ug/ml



#7 MCPA

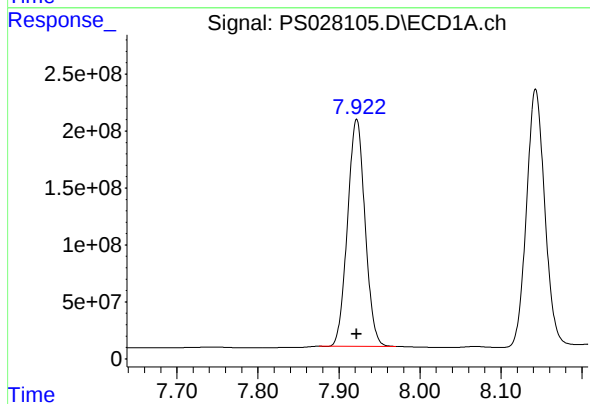
R.T.: 7.565 min
Delta R.T.: 0.000 min
Response: 1222818825
Conc: 91.99 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



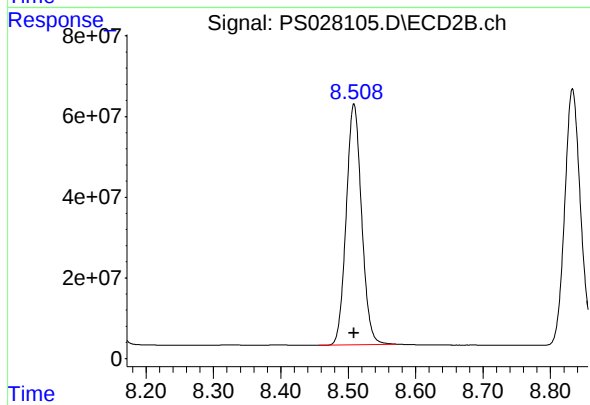
#7 MCPA

R.T.: 8.148 min
Delta R.T.: 0.000 min
Response: 389080212
Conc: 91.69 ug/ml



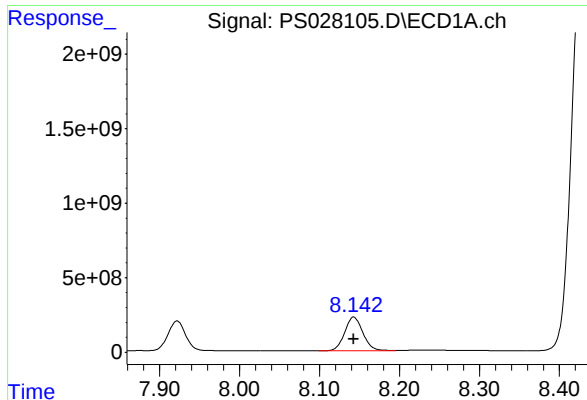
#8 DICHLORPROP

R.T.: 7.922 min
Delta R.T.: 0.000 min
Response: 2994990387
Conc: 933.82 ng/ml



#8 DICHLORPROP

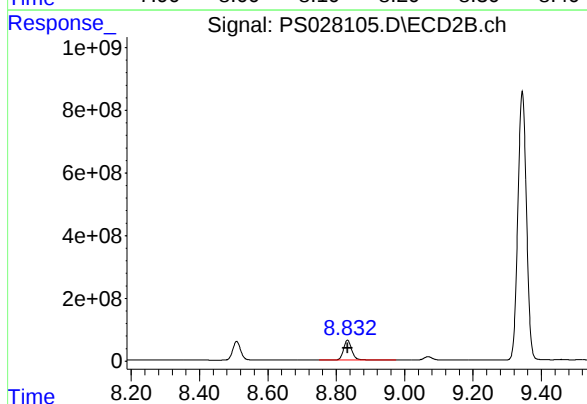
R.T.: 8.509 min
Delta R.T.: 0.000 min
Response: 948346779
Conc: 922.66 ng/ml



#9 2,4-D

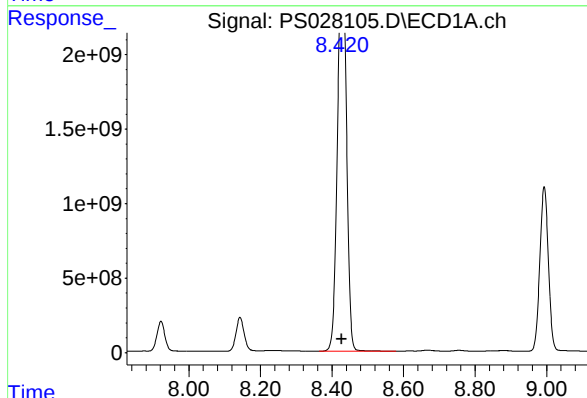
R.T.: 8.143 min
Delta R.T.: 0.000 min
Response: 3581402306
Conc: 934.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



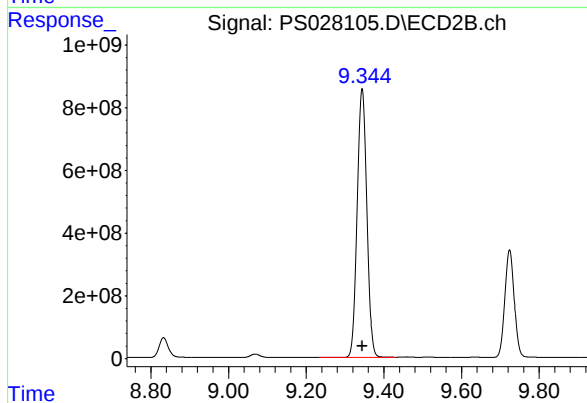
#9 2,4-D

R.T.: 8.833 min
Delta R.T.: 0.000 min
Response: 1067742971
Conc: 924.96 ng/ml



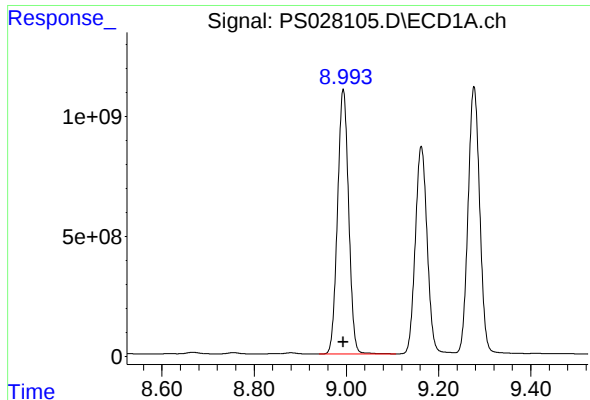
#10 Pentachlorophenol

R.T.: 8.427 min
Delta R.T.: 0.000 min
Response: 43035709484
Conc: 977.45 ng/ml



#10 Pentachlorophenol

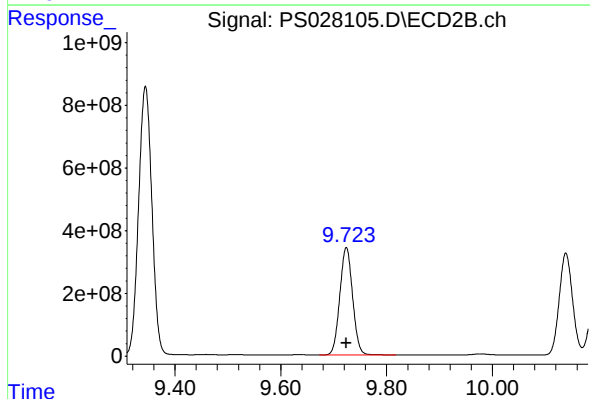
R.T.: 9.344 min
Delta R.T.: 0.000 min
Response: 14954184017
Conc: 940.25 ng/ml



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

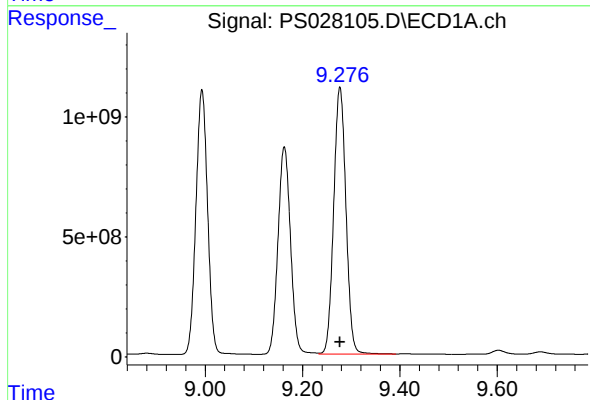
R.T.: 8.993 min
Delta R.T.: 0.000 min
Response: 18309341700
Conc: 947.90 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



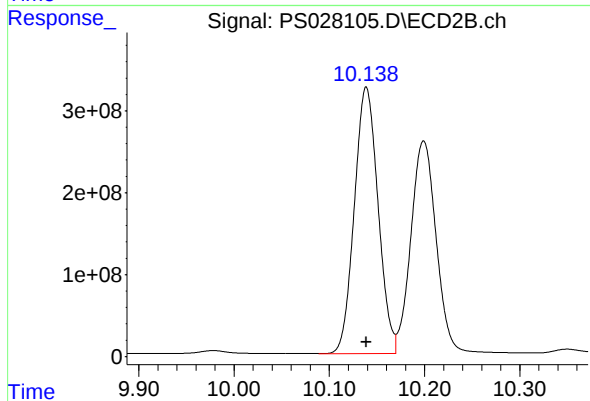
#11 2,4,5-TP (SILVEX)

R.T.: 9.724 min
Delta R.T.: 0.000 min
Response: 5770573079
Conc: 934.98 ng/ml



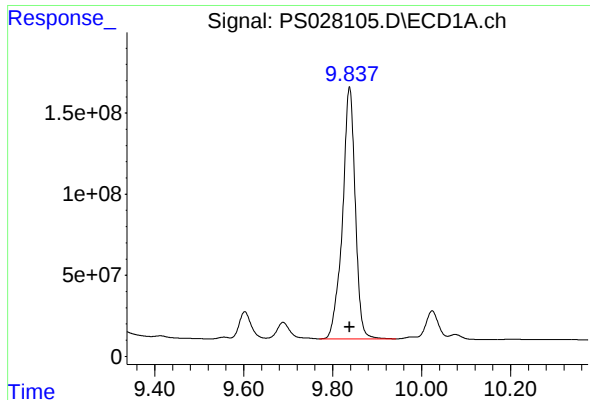
#12 2,4,5-T

R.T.: 9.277 min
Delta R.T.: 0.000 min
Response: 19441519309
Conc: 948.76 ng/ml



#12 2,4,5-T

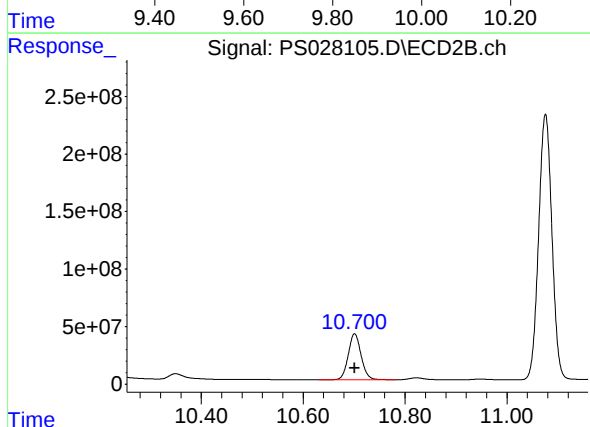
R.T.: 10.139 min
Delta R.T.: 0.000 min
Response: 5634596067
Conc: 938.70 ng/ml



#13 2,4-DB

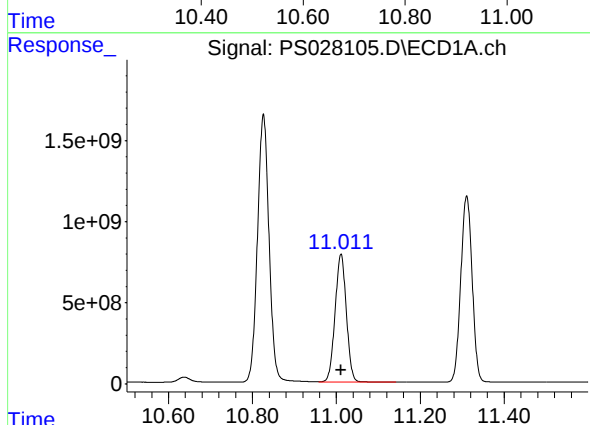
R.T.: 9.838 min
Delta R.T.: 0.000 min
Response: 3100805344
Conc: 943.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



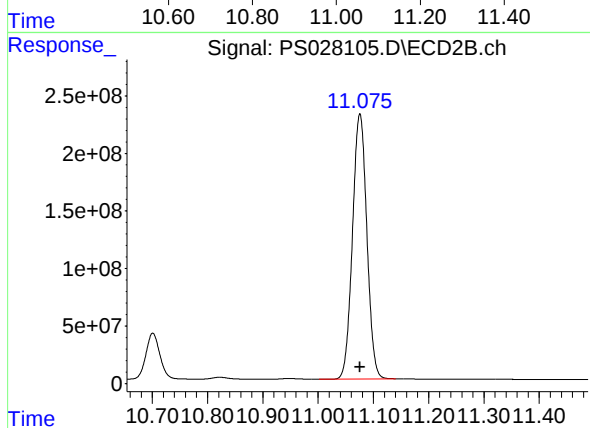
#13 2,4-DB

R.T.: 10.701 min
Delta R.T.: 0.000 min
Response: 700519879
Conc: 940.61 ng/ml



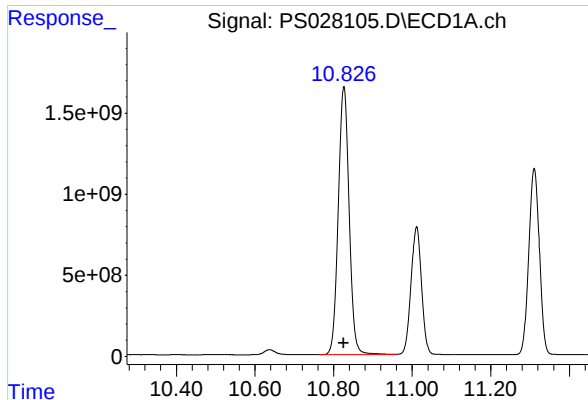
#14 DINOSEB

R.T.: 11.011 min
Delta R.T.: 0.000 min
Response: 14690547032
Conc: 937.94 ng/ml



#14 DINOSEB

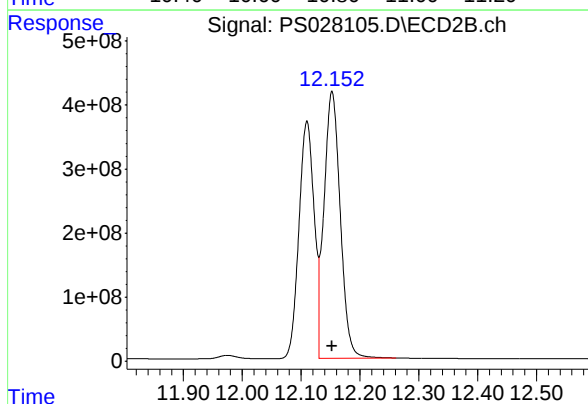
R.T.: 11.076 min
Delta R.T.: 0.000 min
Response: 4161093653
Conc: 938.38 ng/ml



#15 Picloram

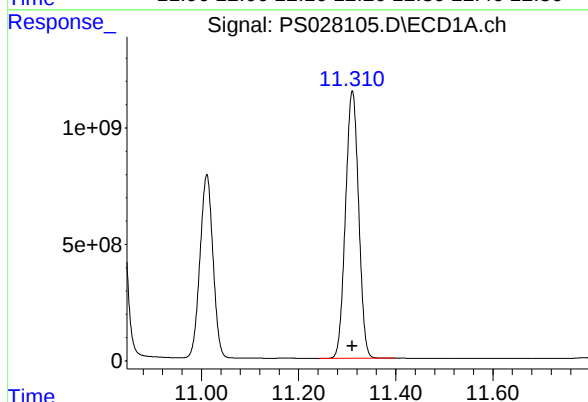
R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 31669491070
Conc: 954.64 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



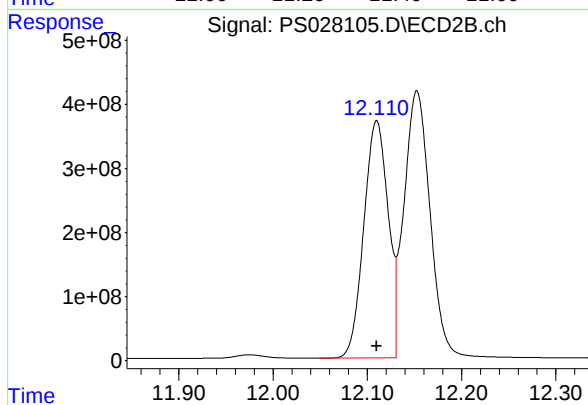
#15 Picloram

R.T.: 12.153 min
Delta R.T.: 0.000 min
Response: 7995746526
Conc: 942.16 ng/ml



#16 DCPA

R.T.: 11.311 min
Delta R.T.: 0.000 min
Response: 21541356072
Conc: 957.91 ng/ml



#16 DCPA

R.T.: 12.110 min
Delta R.T.: 0.000 min
Response: 6666938535
Conc: 956.66 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
 Data File : PS028106.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Oct 2024 12:27
 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: Oct 31 13:03:01 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:01:00 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	7.062	7.612	4253.9E6	1441.2E6	1446.654	1523.679
Target Compounds						
1) T Dalapon	2.523	2.596	5185.5E6	2984.0E6	1331.764	1378.399
2) T 3,5-DICHL...	6.260	6.588	5852.2E6	2105.5E6	1339.905	1417.036
3) T 4-Nitroph...	6.856	7.146	3112.8E6	889.2E6	1355.553	1367.824
5) T DICAMBA	7.239	7.805	17874.0E6	6455.8E6	1360.540	1451.143
6) T MCPP	7.423	7.914	1433.9E6	464.4E6	144.577	148.422
7) T MCPA	7.569	8.154	1887.1E6	608.0E6	141.203	142.273
8) T DICHLORPROP	7.921	8.511	4374.6E6	1466.6E6	1359.500	1413.866
9) T 2,4-D	8.142	8.835	5210.4E6	1643.5E6	1356.422	1412.468
10) T Pentachlo...	8.433	9.347	49739.8E6	22372.0E6	1146.277	1399.454
11) T 2,4,5-TP ...	8.993	9.726	26185.2E6	8908.0E6	1354.150	1432.001
12) T 2,4,5-T	9.276	10.141	27717.0E6	8574.8E6	1351.727	1420.081
13) T 2,4-DB	9.837	10.704	4600.1E6	1079.4E6	1394.489	1442.195
14) T DINOSEB	11.010	11.079	21186.8E6	6222.2E6	1351.219	1401.971
15) T Picloram	10.826	12.155	44979.1E6	12232.3E6	1359.163	1435.447
16) T DCPA	11.310	12.113	30585.8E6	9898.0E6	1358.618	1417.827

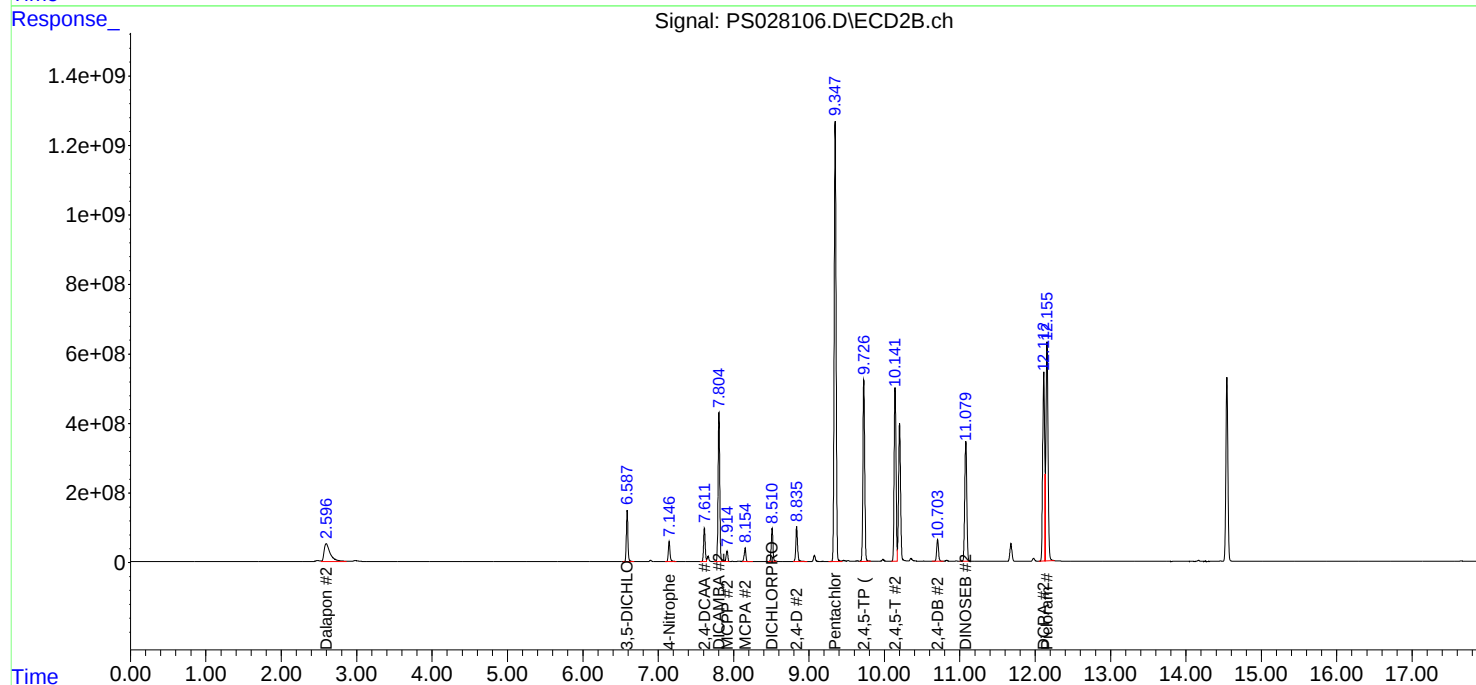
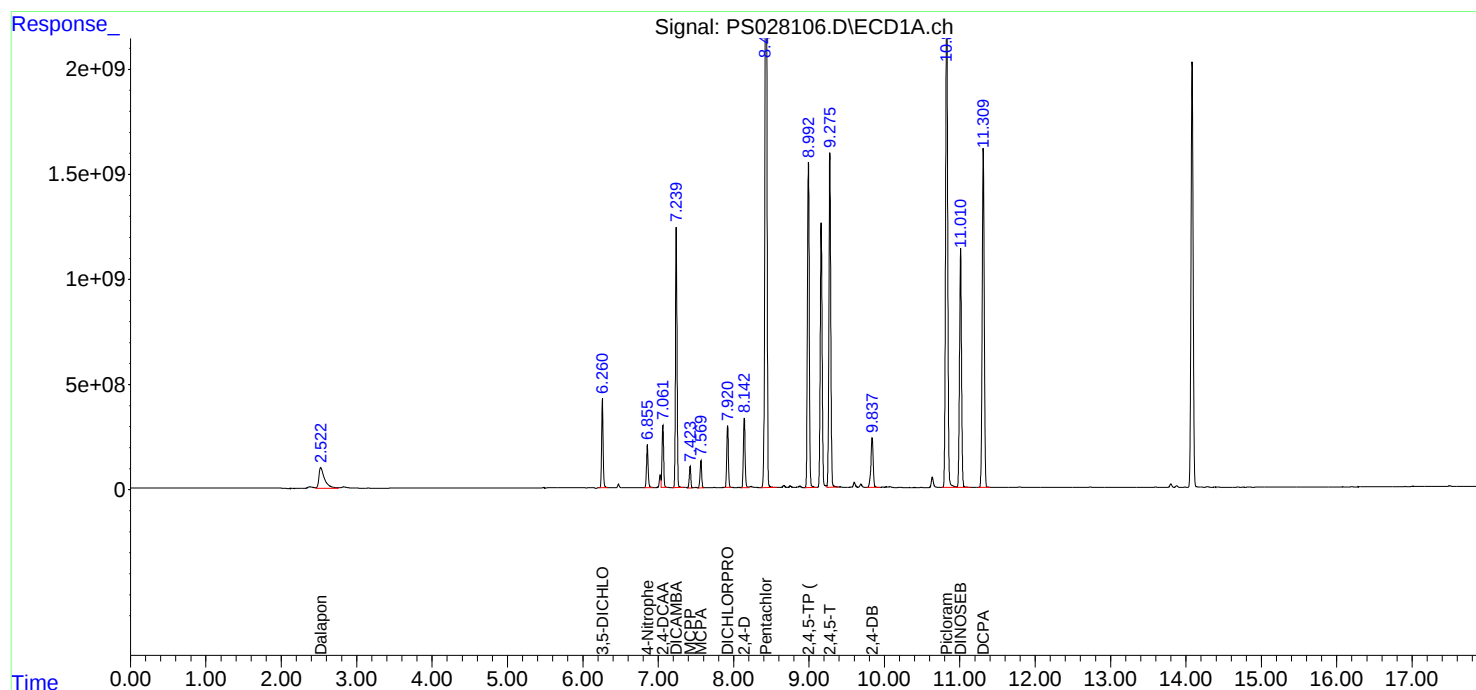
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

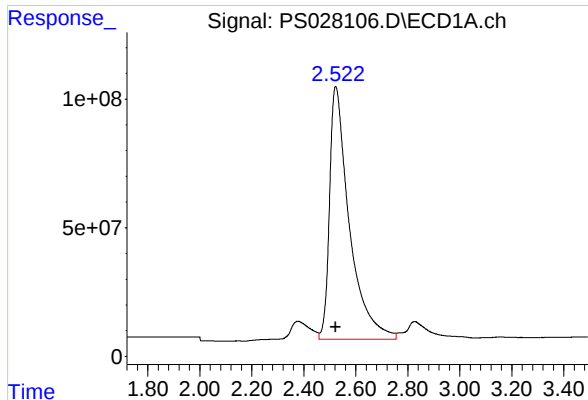
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028106.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 12:27
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 31 13:03:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:01:00 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

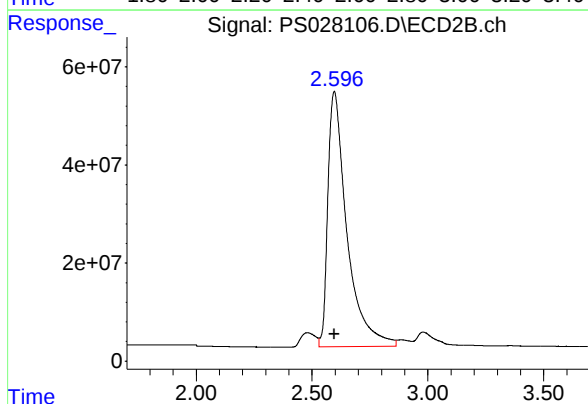




#1 Dalapon

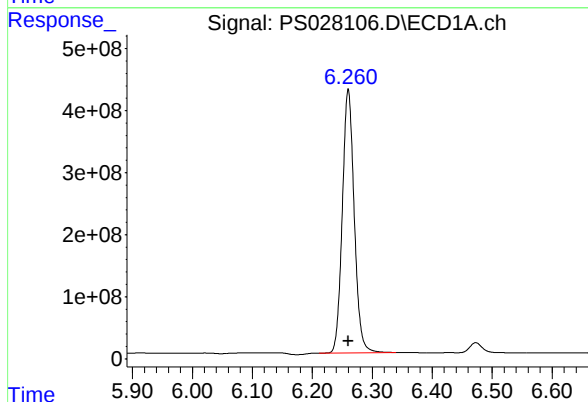
R.T.: 2.523 min
Delta R.T.: 0.000 min
Response: 5185522264
Conc: 1331.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



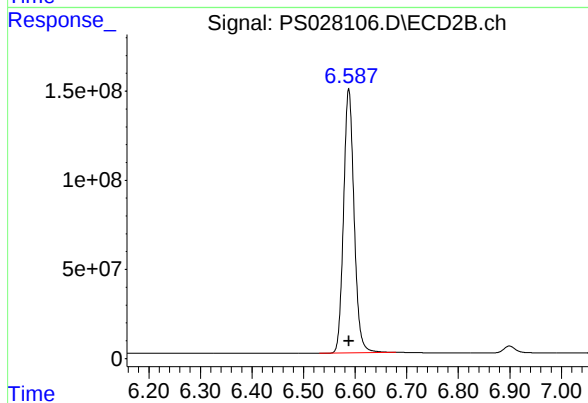
#1 Dalapon

R.T.: 2.596 min
Delta R.T.: 0.000 min
Response: 2983974181
Conc: 1378.40 ng/ml



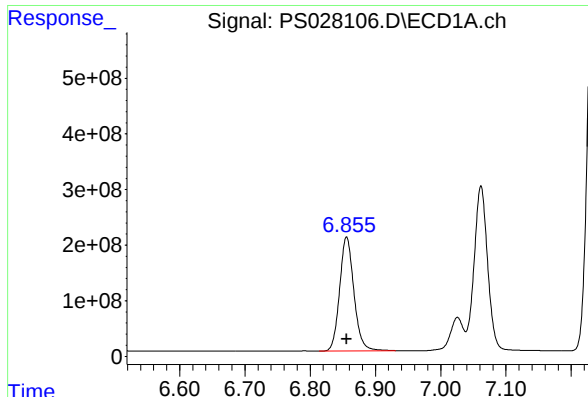
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.260 min
Delta R.T.: 0.000 min
Response: 5852242779
Conc: 1339.91 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

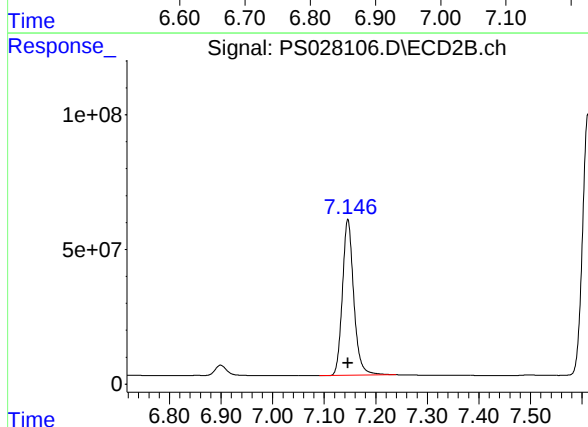
R.T.: 6.588 min
Delta R.T.: 0.000 min
Response: 2105470252
Conc: 1417.04 ng/ml



#3 4-Nitrophenol

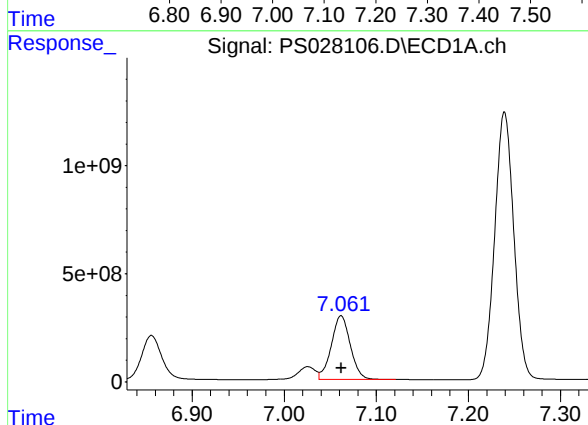
R.T.: 6.856 min
Delta R.T.: 0.000 min
Response: 3112811996
Conc: 1355.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



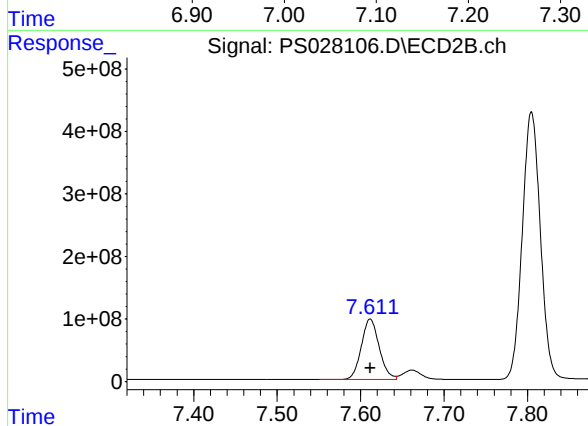
#3 4-Nitrophenol

R.T.: 7.146 min
Delta R.T.: 0.000 min
Response: 889176328
Conc: 1367.82 ng/ml



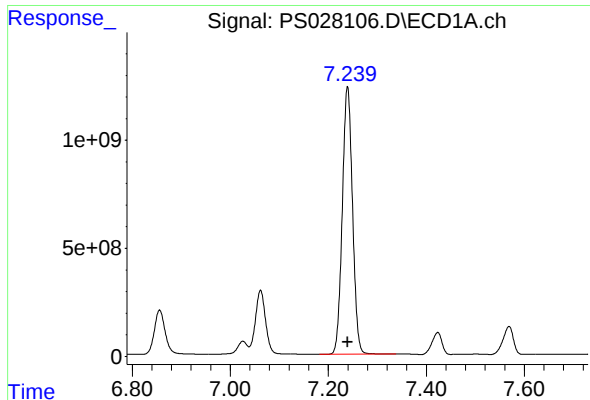
#4 2,4-DCAA

R.T.: 7.062 min
Delta R.T.: 0.000 min
Response: 4253934010
Conc: 1446.65 ng/ml



#4 2,4-DCAA

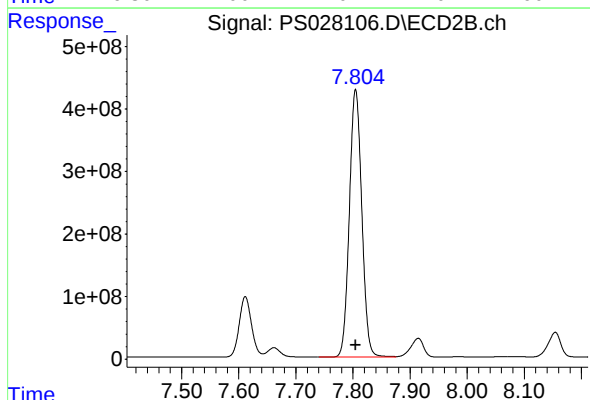
R.T.: 7.612 min
Delta R.T.: 0.000 min
Response: 1441198692
Conc: 1523.68 ng/ml



#5 DICAMBA

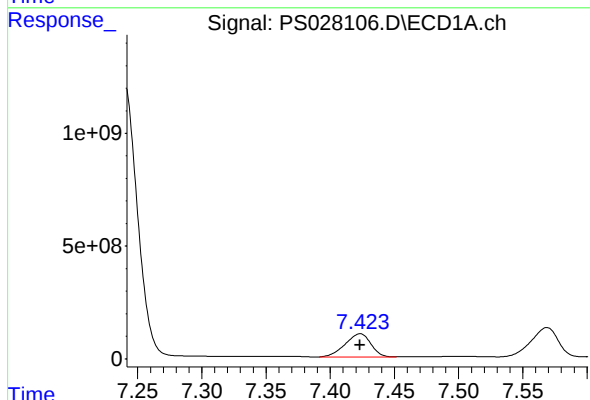
R.T.: 7.239 min
Delta R.T.: 0.000 min
Response: 17873972213
Conc: 1360.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



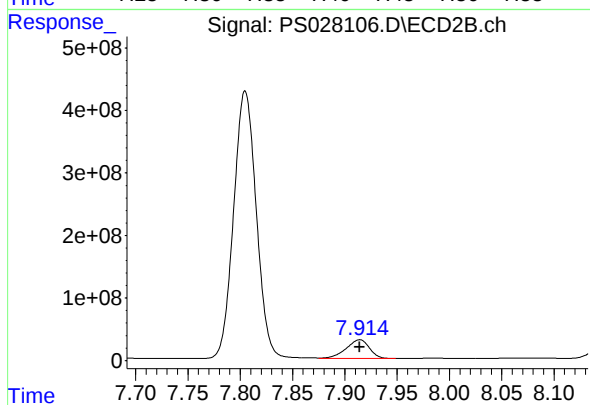
#5 DICAMBA

R.T.: 7.805 min
Delta R.T.: 0.000 min
Response: 6455812506
Conc: 1451.14 ng/ml



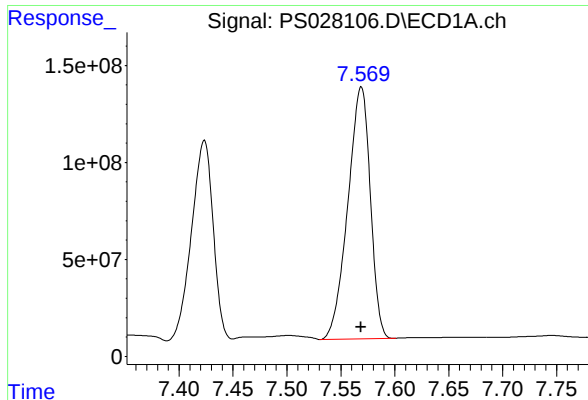
#6 MCPP

R.T.: 7.423 min
Delta R.T.: 0.000 min
Response: 1433889317
Conc: 144.58 ug/ml



#6 MCPP

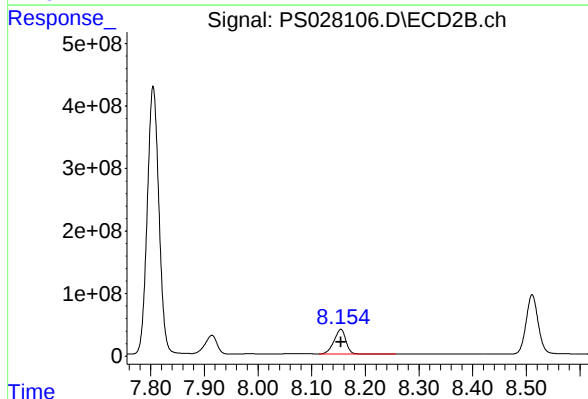
R.T.: 7.914 min
Delta R.T.: 0.000 min
Response: 464436342
Conc: 148.42 ug/ml



#7 MCPA

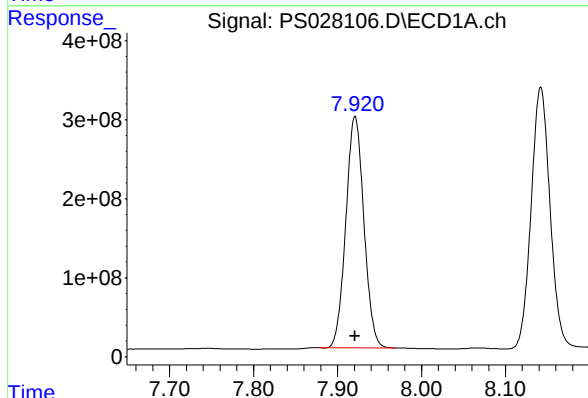
R.T.: 7.569 min
Delta R.T.: 0.000 min
Response: 1887050621
Conc: 141.20 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



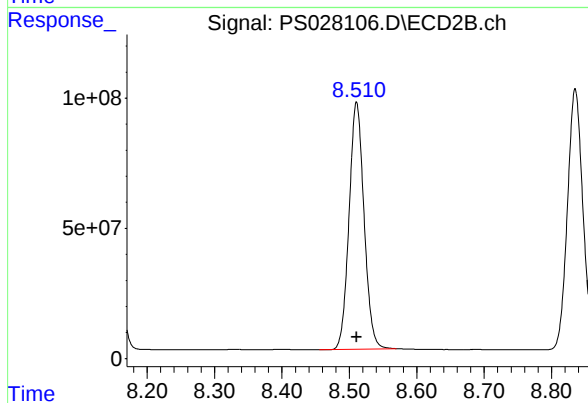
#7 MCPA

R.T.: 8.154 min
Delta R.T.: 0.000 min
Response: 607964518
Conc: 142.27 ug/ml



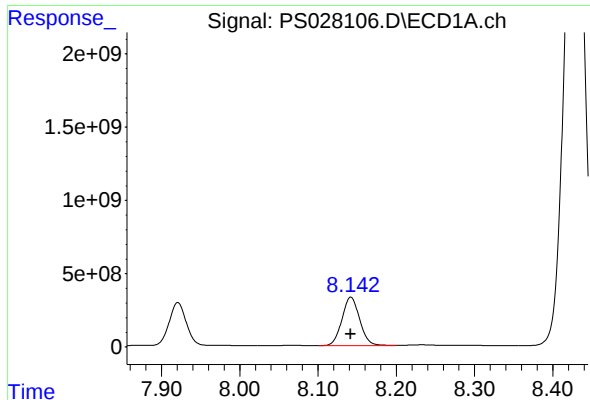
#8 DICHLORPROP

R.T.: 7.921 min
Delta R.T.: 0.000 min
Response: 4374593914
Conc: 1359.50 ng/ml



#8 DICHLORPROP

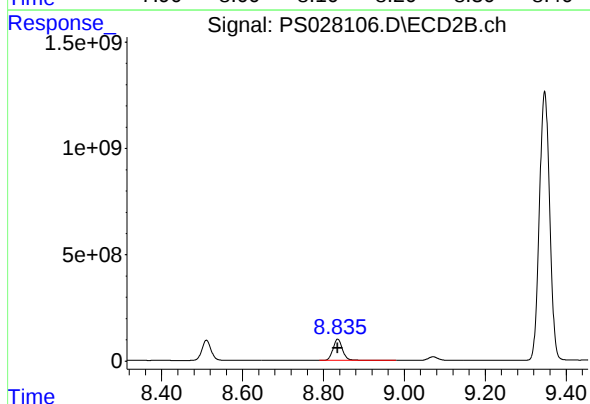
R.T.: 8.511 min
Delta R.T.: 0.000 min
Response: 1466633559
Conc: 1413.87 ng/ml



#9 2,4-D

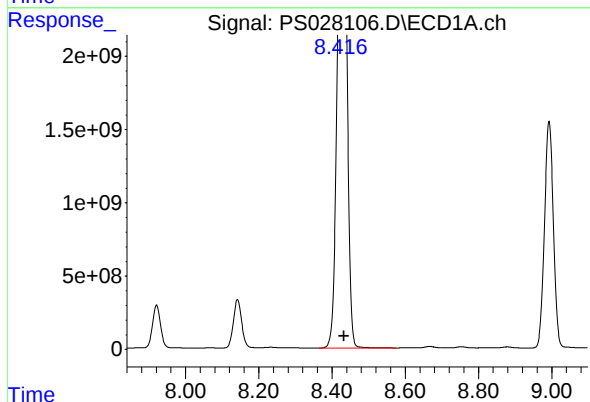
R.T.: 8.142 min
Delta R.T.: 0.000 min
Response: 5210383796
Conc: 1356.42 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



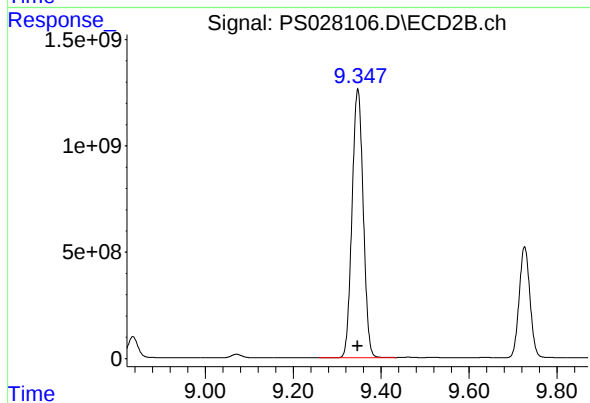
#9 2,4-D

R.T.: 8.835 min
Delta R.T.: 0.000 min
Response: 1643542403
Conc: 1412.47 ng/ml



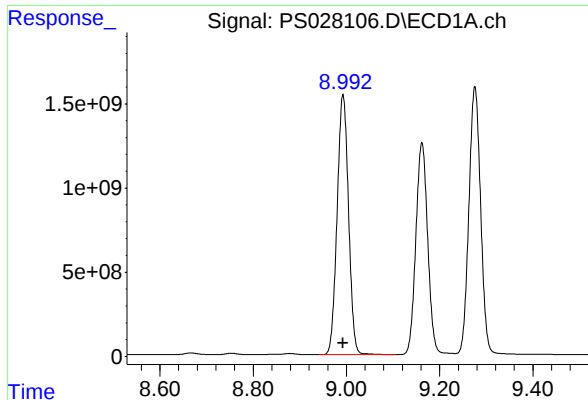
#10 Pentachlorophenol

R.T.: 8.433 min
Delta R.T.: 0.000 min
Response: 49739771655
Conc: 1146.28 ng/ml



#10 Pentachlorophenol

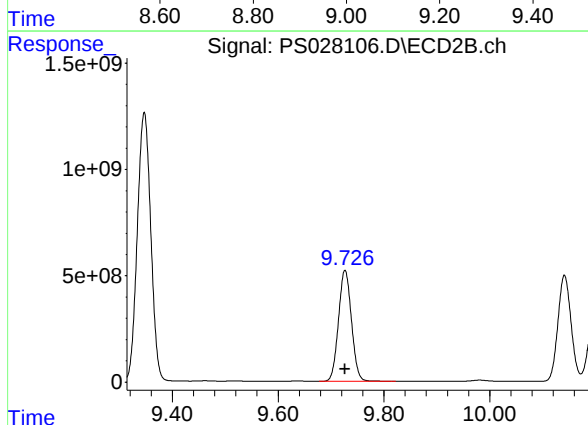
R.T.: 9.347 min
Delta R.T.: 0.000 min
Response: 22371966544
Conc: 1399.45 ng/ml



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

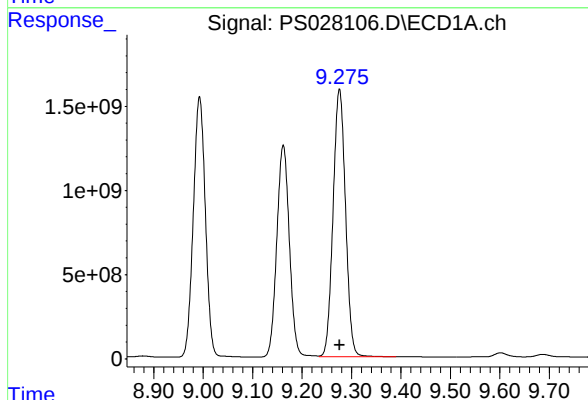
R.T.: 8.993 min
Delta R.T.: 0.000 min
Response: 26185214624
Conc: 1354.15 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



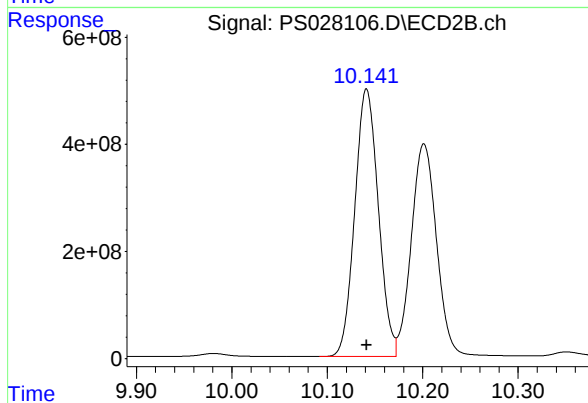
#11 2,4,5-TP (SILVEX)

R.T.: 9.726 min
Delta R.T.: 0.000 min
Response: 8907958268
Conc: 1432.00 ng/ml



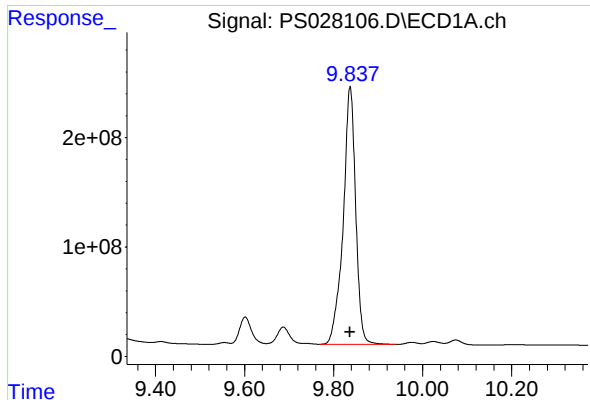
#12 2,4,5-T

R.T.: 9.276 min
Delta R.T.: 0.000 min
Response: 27717044399
Conc: 1351.73 ng/ml



#12 2,4,5-T

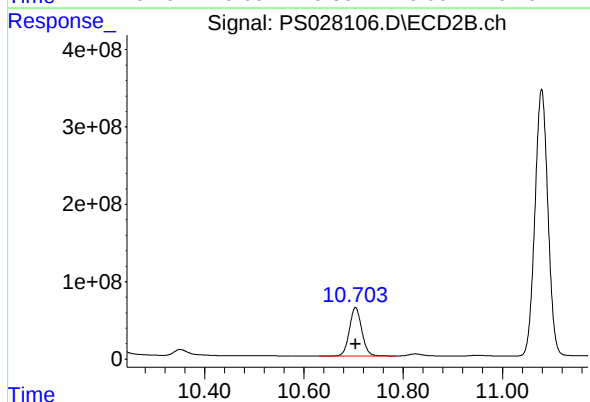
R.T.: 10.141 min
Delta R.T.: 0.000 min
Response: 8574778793
Conc: 1420.08 ng/ml



#13 2,4-DB

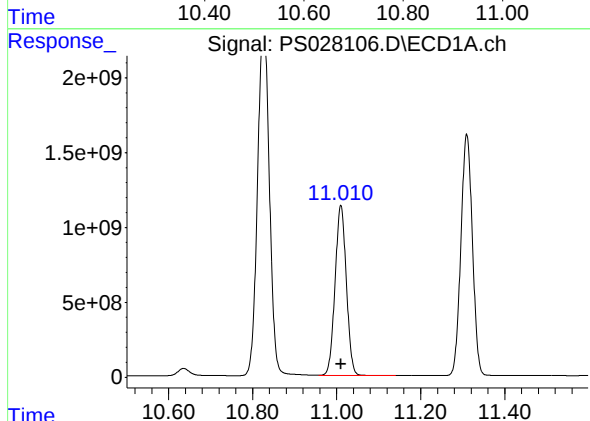
R.T.: 9.837 min
Delta R.T.: 0.000 min
Response: 4600105622
Conc: 1394.49 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



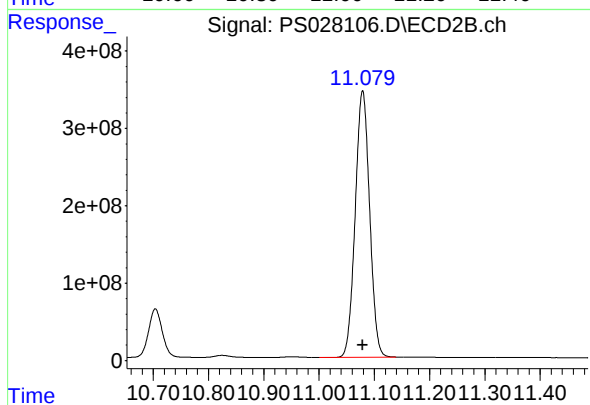
#13 2,4-DB

R.T.: 10.704 min
Delta R.T.: 0.000 min
Response: 1079380325
Conc: 1442.20 ng/ml



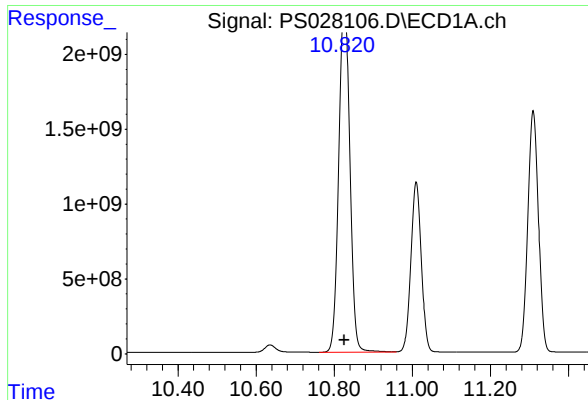
#14 DINOSEB

R.T.: 11.010 min
Delta R.T.: 0.000 min
Response: 21186831000
Conc: 1351.22 ng/ml



#14 DINOSEB

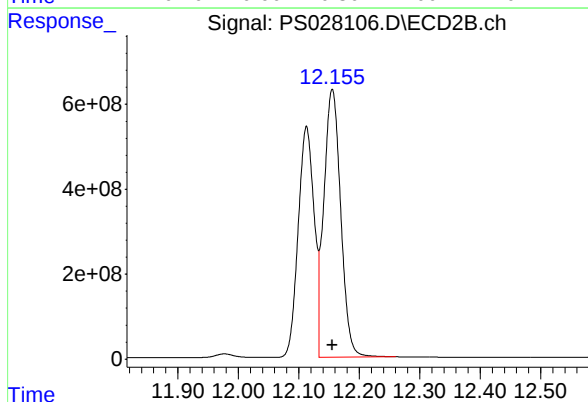
R.T.: 11.079 min
Delta R.T.: 0.000 min
Response: 6222160127
Conc: 1401.97 ng/ml



#15 Picloram

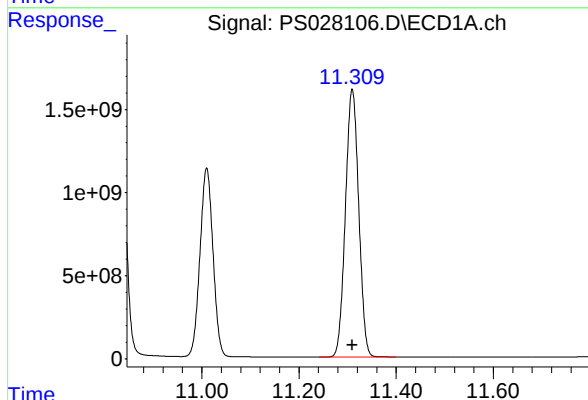
R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 44979141428
Conc: 1359.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



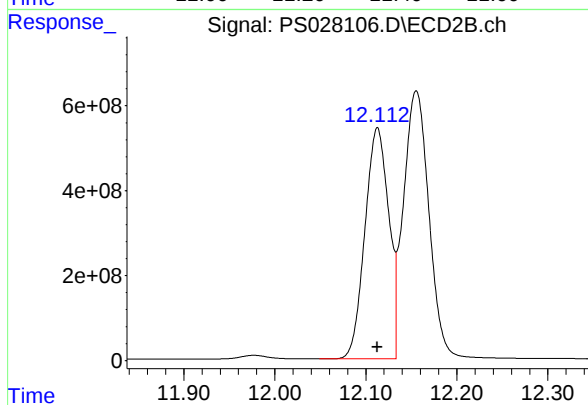
#15 Picloram

R.T.: 12.155 min
Delta R.T.: 0.000 min
Response: 12232261417
Conc: 1435.45 ng/ml



#16 DCPA

R.T.: 11.310 min
Delta R.T.: 0.000 min
Response: 30585831505
Conc: 1358.62 ng/ml



#16 DCPA

R.T.: 12.113 min
Delta R.T.: 0.000 min
Response: 9897984037
Conc: 1417.83 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
 Data File : PS028107.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Oct 2024 12:51
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS103124

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 31 13:11:49 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:10:03 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	7.062	7.611	2301.9E6	771.8E6	735.729	772.443
Target Compounds						
1) T Dalapon	2.524	2.594	2728.9E6	1512.5E6	664.532	701.683
2) T 3,5-DICHL...	6.261	6.587	3188.5E6	1116.1E6	688.384	723.657
3) T 4-Nitroph...	6.857	7.146	1592.3E6	469.8E6	676.941	689.617
5) T DICAMBA	7.239	7.804	9642.9E6	3365.1E6	704.490	739.732
6) T MCPP	7.418	7.909	686.4E6	233.0E6	72.922	74.440
7) T MCPA	7.562	8.148	919.1E6	321.7E6	71.038	71.002
8) T DICHLORPROP	7.921	8.510	2358.1E6	784.5E6	693.300	717.344
9) T 2,4-D	8.143	8.834	2816.5E6	867.8E6	693.494	712.794
10) T Pentachlo...	8.427	9.345	36929.6E6	12119.9E6	751.122	730.461
11) T 2,4,5-TP ...	8.993	9.725	14514.9E6	4617.7E6	712.427	726.605
12) T 2,4,5-T	9.276	10.140	15399.3E6	4438.0E6	710.392	725.037
13) T 2,4-DB	9.838	10.703	2410.3E6	538.7E6	709.125	712.195
14) T DINOSEB	11.011	11.077	11519.9E6	3200.4E6	698.537	706.553
15) T Picloram	10.826	12.154	24682.2E6	6071.4E6	715.262	733.641
16) T DCPA	11.310	12.112	17149.7E6	5152.9E6	718.262	732.109

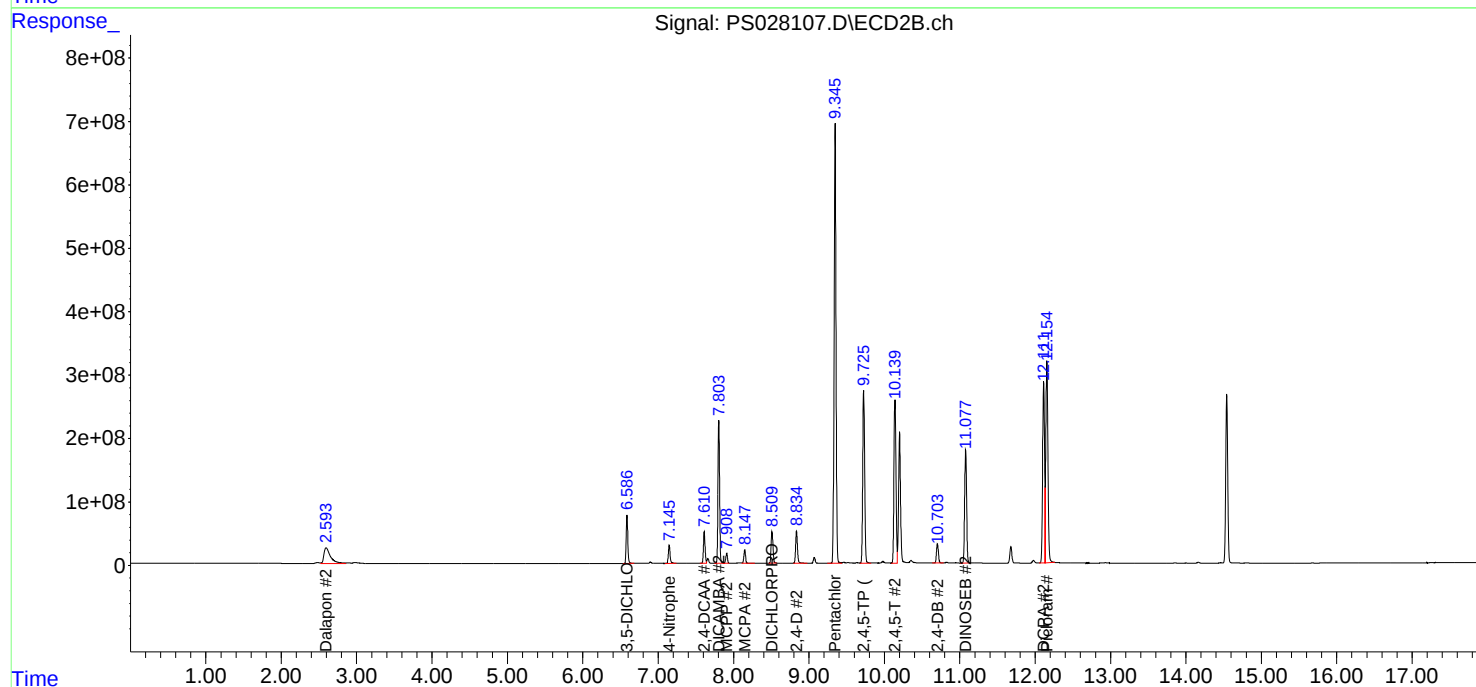
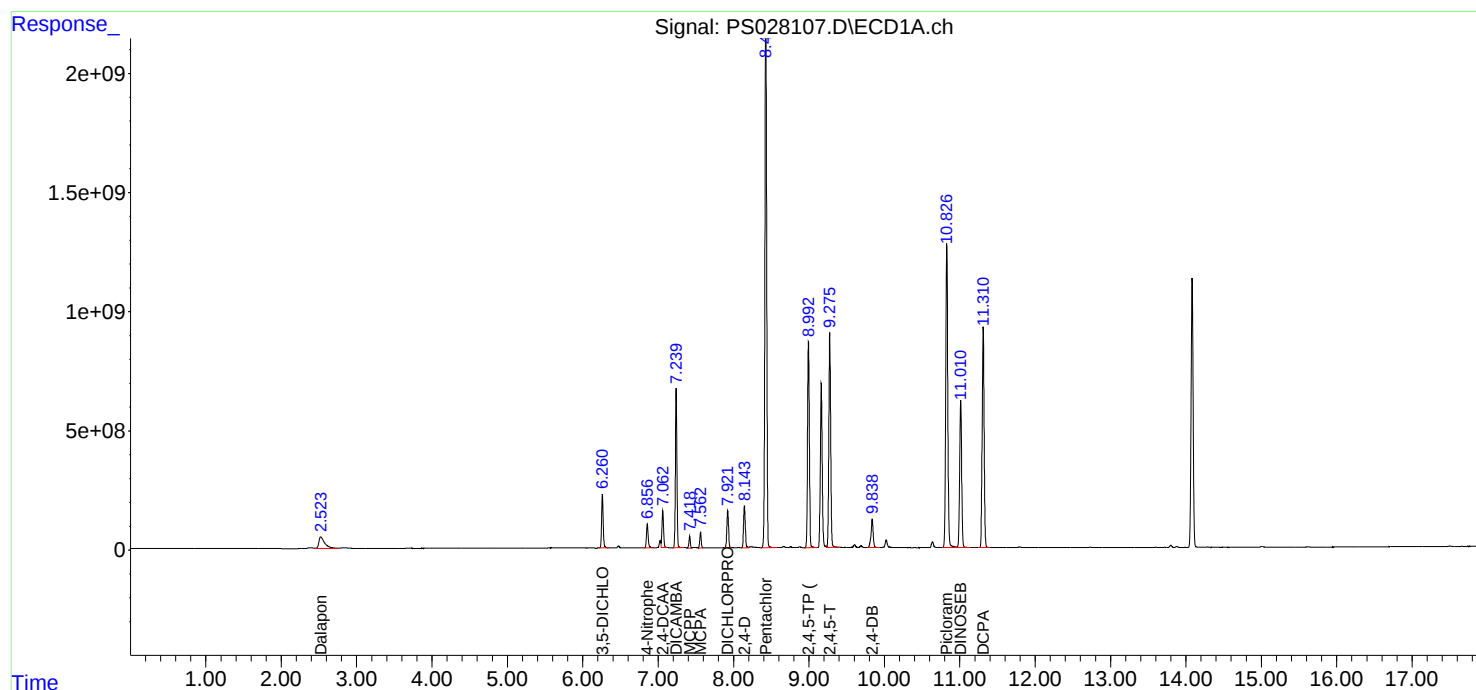
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

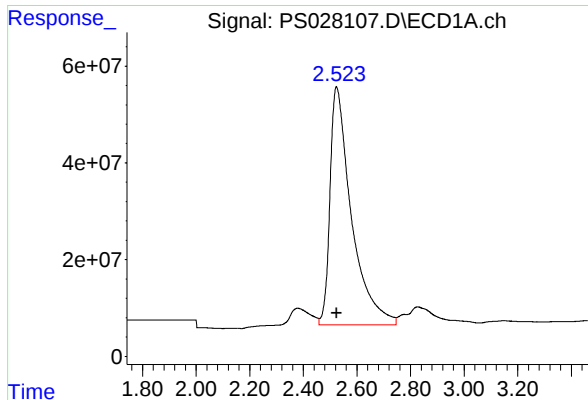
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028107.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 12:51
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS103124

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 31 13:11:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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

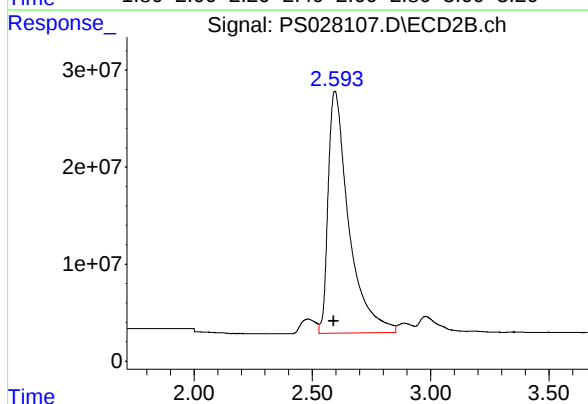




#1 Dalapon

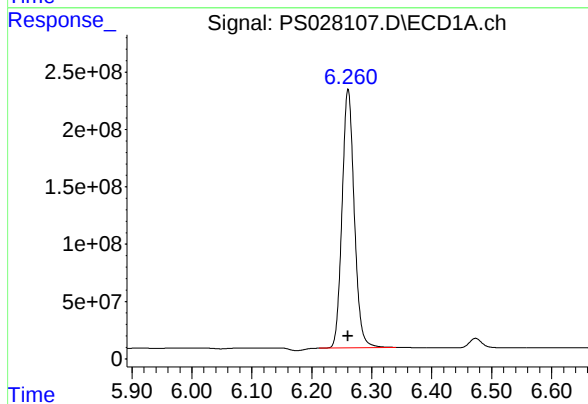
R.T.: 2.524 min
Delta R.T.: 0.000 min
Response: 2728879523
Conc: 664.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS103124



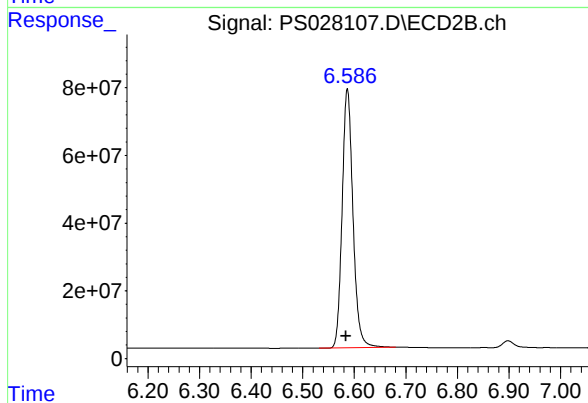
#1 Dalapon

R.T.: 2.594 min
Delta R.T.: 0.003 min
Response: 1512459460
Conc: 701.68 ng/ml



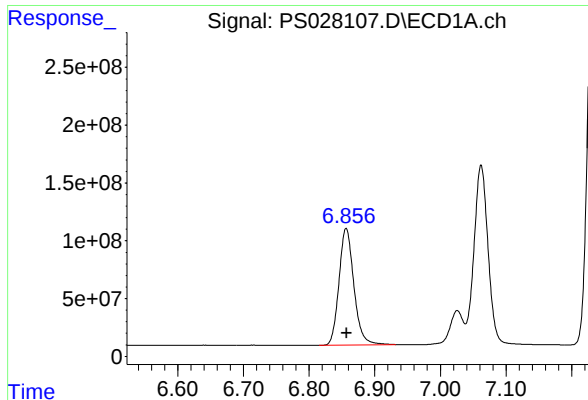
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.261 min
Delta R.T.: 0.000 min
Response: 3188520102
Conc: 688.38 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

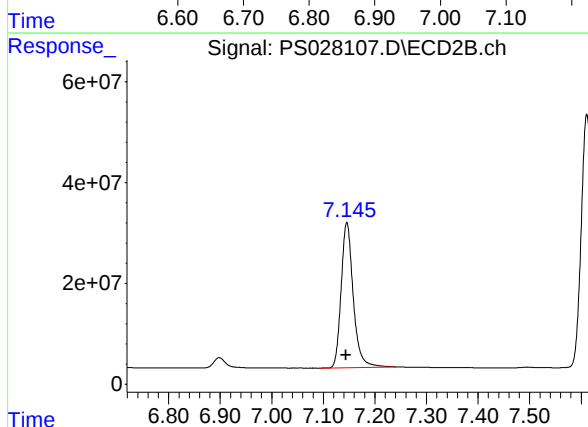
R.T.: 6.587 min
Delta R.T.: 0.003 min
Response: 1116077738
Conc: 723.66 ng/ml



#3 4-Nitrophenol

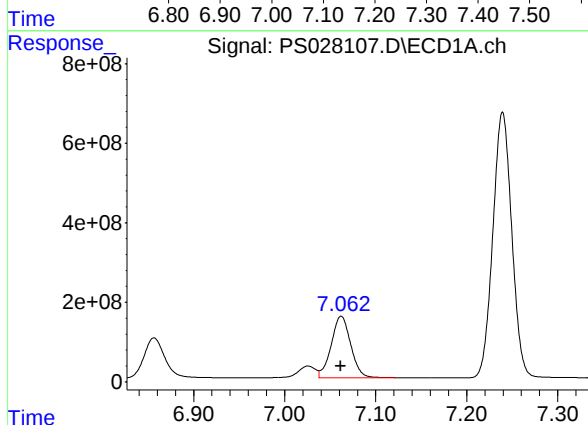
R.T.: 6.857 min
Delta R.T.: 0.000 min
Response: 1592251437
Conc: 676.94 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS103124



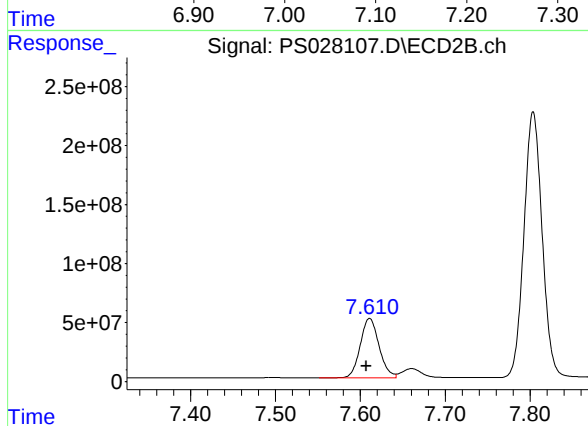
#3 4-Nitrophenol

R.T.: 7.146 min
Delta R.T.: 0.002 min
Response: 469814887
Conc: 689.62 ng/ml



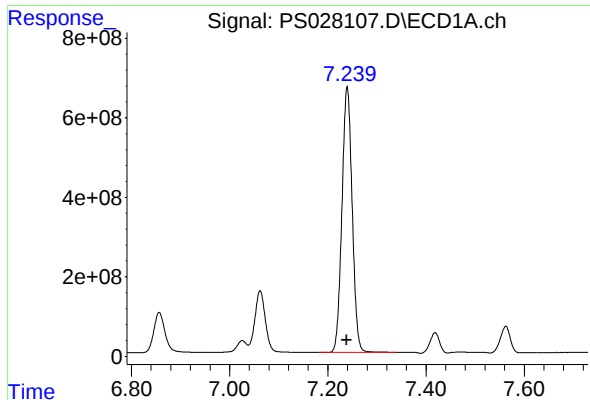
#4 2,4-DCAA

R.T.: 7.062 min
Delta R.T.: 0.000 min
Response: 2301909446
Conc: 735.73 ng/ml



#4 2,4-DCAA

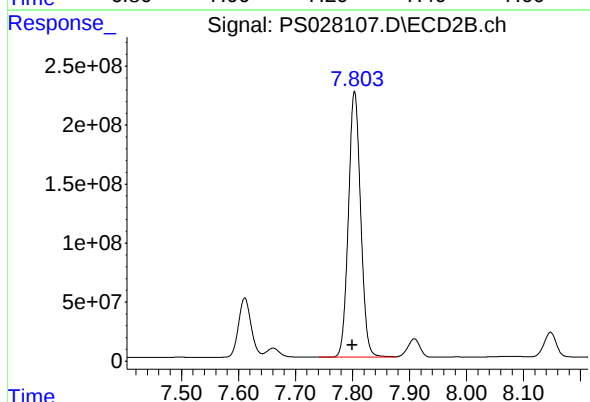
R.T.: 7.611 min
Delta R.T.: 0.004 min
Response: 771781948
Conc: 772.44 ng/ml



#5 DICAMBA

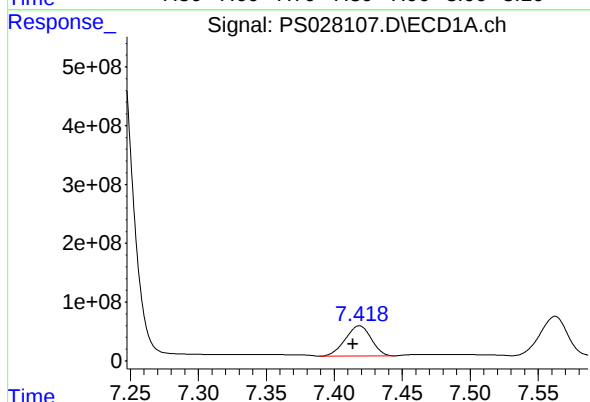
R.T.: 7.239 min
Delta R.T.: 0.000 min
Response: 9642860814
Conc: 704.49 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS103124



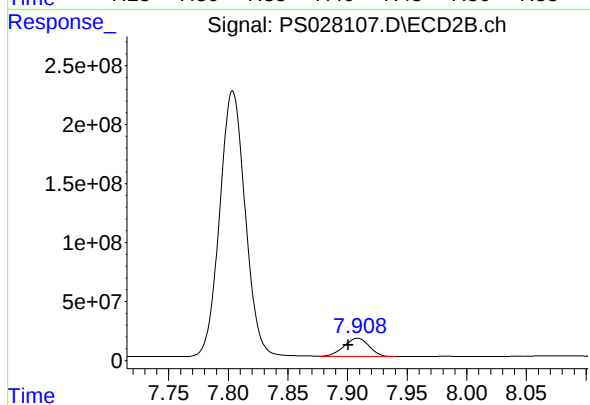
#5 DICAMBA

R.T.: 7.804 min
Delta R.T.: 0.004 min
Response: 3365075094
Conc: 739.73 ng/ml



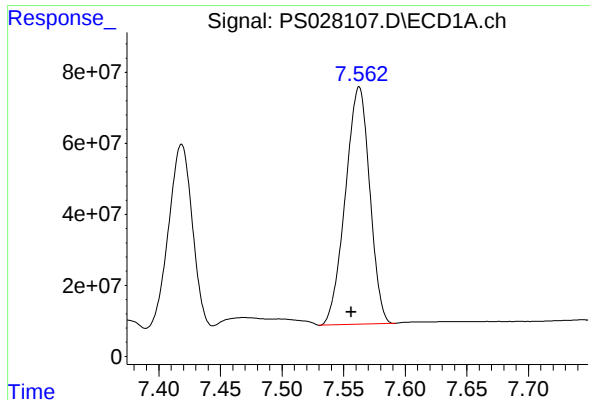
#6 MCPP

R.T.: 7.418 min
Delta R.T.: 0.005 min
Response: 686381412
Conc: 72.92 ug/ml



#6 MCPP

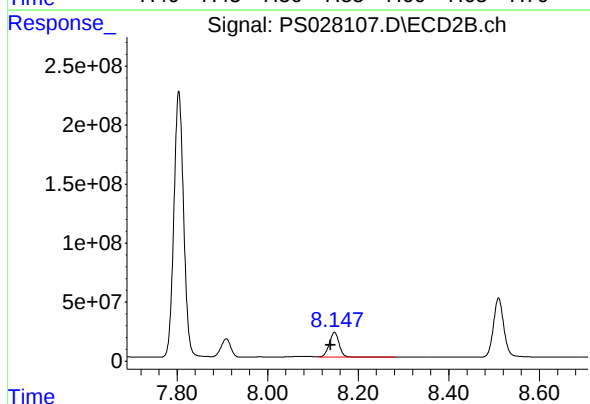
R.T.: 7.909 min
Delta R.T.: 0.008 min
Response: 233037986
Conc: 74.44 ug/ml



#7 MCPA

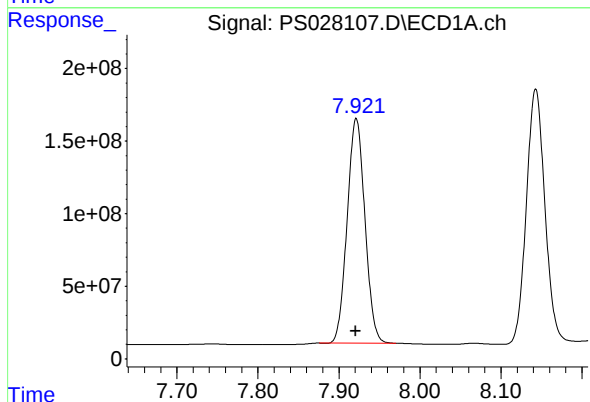
R.T.: 7.562 min
Delta R.T.: 0.006 min
Response: 919123784
Conc: 71.04 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS103124



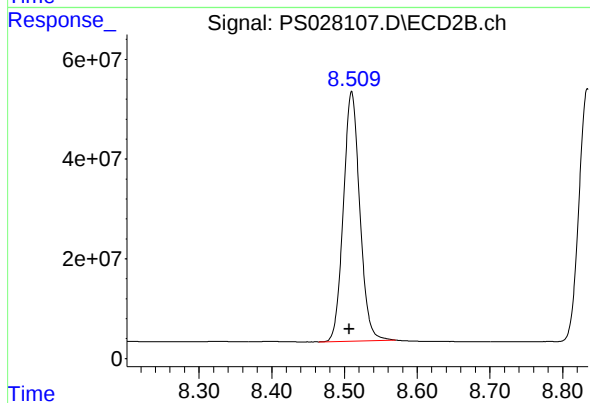
#7 MCPA

R.T.: 8.148 min
Delta R.T.: 0.009 min
Response: 321662889
Conc: 71.00 ug/ml



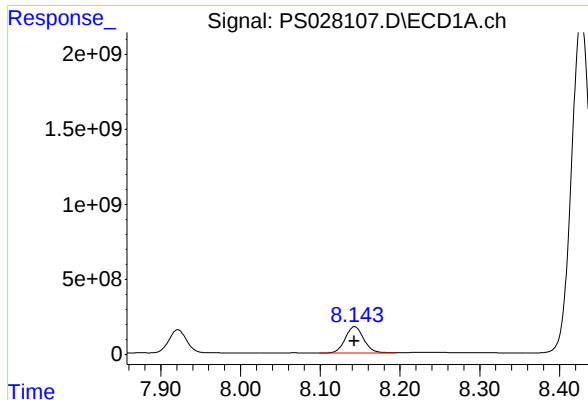
#8 DICHLORPROP

R.T.: 7.921 min
Delta R.T.: 0.000 min
Response: 2358127791
Conc: 693.30 ng/ml



#8 DICHLORPROP

R.T.: 8.510 min
Delta R.T.: 0.004 min
Response: 784467443
Conc: 717.34 ng/ml



#9 2,4-D

R.T.: 8.143 min

Delta R.T.: 0.000 min

Response: 2816512023

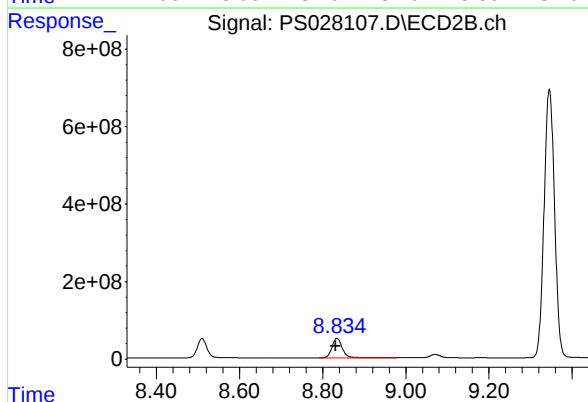
Conc: 693.49 ng/ml

Instrument :

ECD_S

ClientSampleId :

ICVPS103124



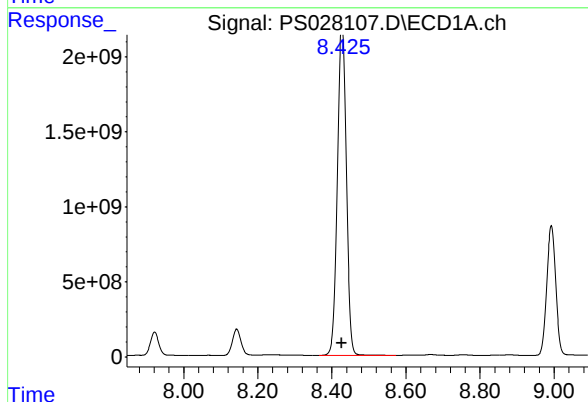
#9 2,4-D

R.T.: 8.834 min

Delta R.T.: 0.003 min

Response: 867835479

Conc: 712.79 ng/ml



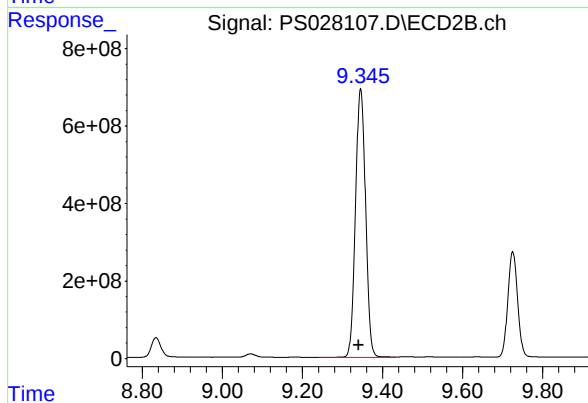
#10 Pentachlorophenol

R.T.: 8.427 min

Delta R.T.: 0.000 min

Response: 36929611111

Conc: 751.12 ng/ml



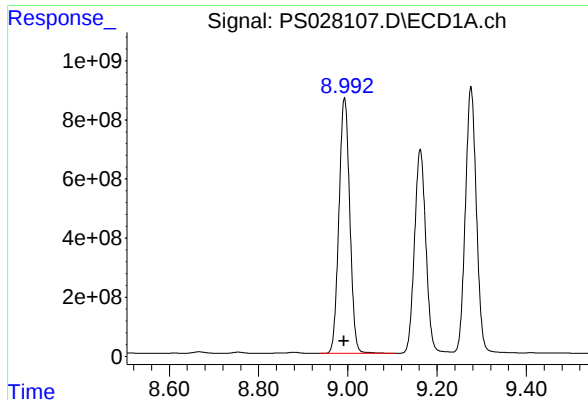
#10 Pentachlorophenol

R.T.: 9.345 min

Delta R.T.: 0.004 min

Response: 12119897880

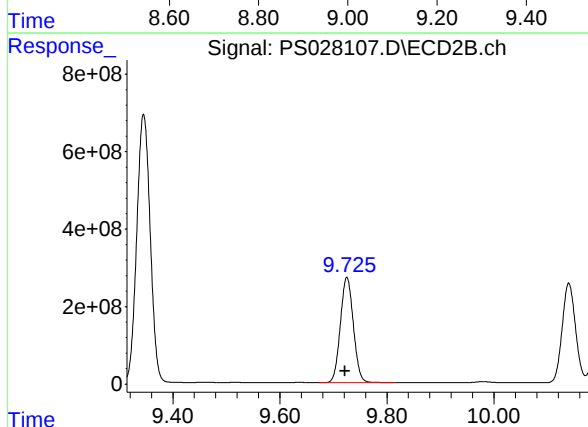
Conc: 730.46 ng/ml



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

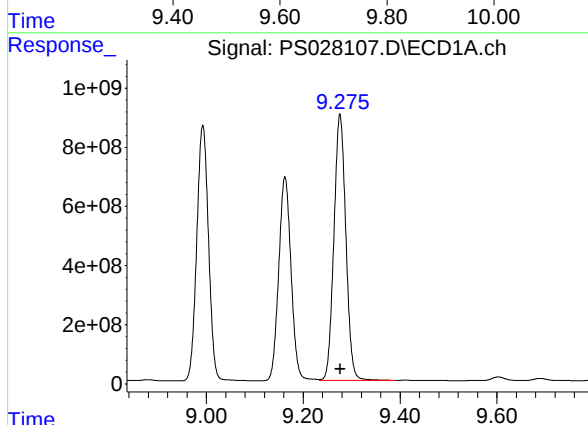
R.T.: 8.993 min
Delta R.T.: 0.000 min
Response: 14514908372
Conc: 712.43 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS103124



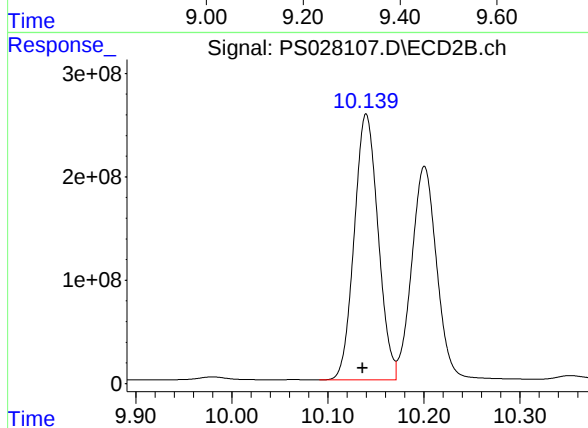
#11 2,4,5-TP (SILVEX)

R.T.: 9.725 min
Delta R.T.: 0.003 min
Response: 4617698226
Conc: 726.61 ng/ml



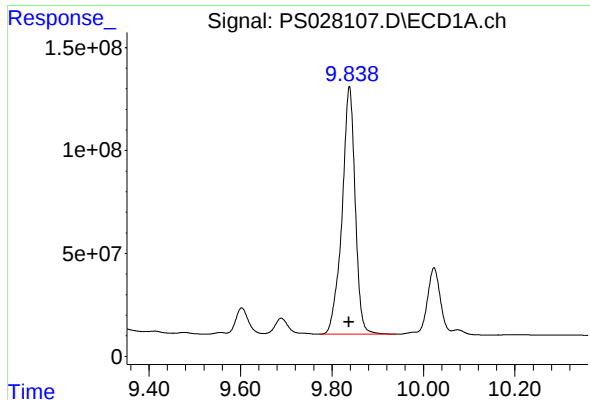
#12 2,4,5-T

R.T.: 9.276 min
Delta R.T.: 0.000 min
Response: 15399337179
Conc: 710.39 ng/ml



#12 2,4,5-T

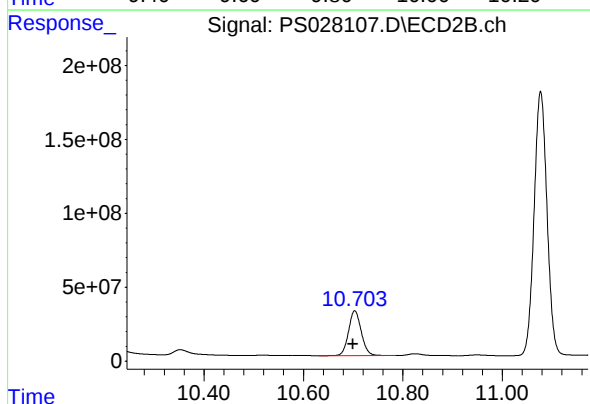
R.T.: 10.140 min
Delta R.T.: 0.004 min
Response: 4438041202
Conc: 725.04 ng/ml



#13 2,4-DB

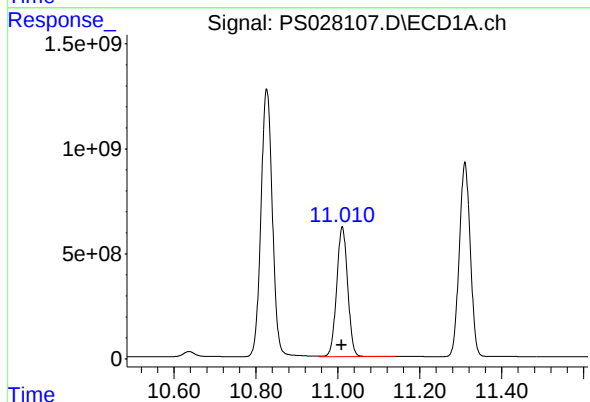
R.T.: 9.838 min
Delta R.T.: 0.000 min
Response: 2410293168
Conc: 709.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS103124



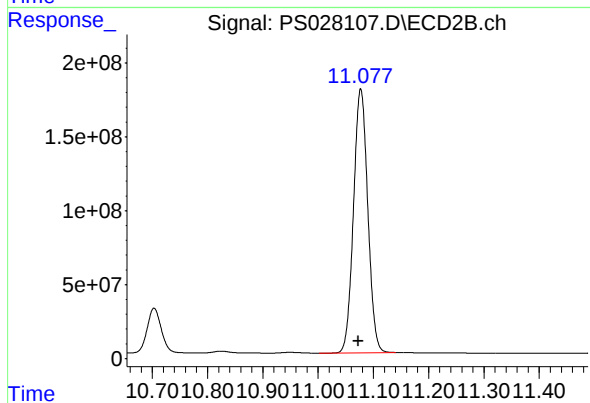
#13 2,4-DB

R.T.: 10.703 min
Delta R.T.: 0.004 min
Response: 538717735
Conc: 712.20 ng/ml



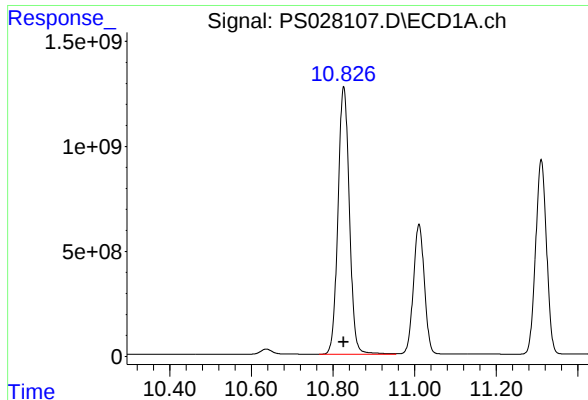
#14 DINOSEB

R.T.: 11.011 min
Delta R.T.: 0.000 min
Response: 11519908473
Conc: 698.54 ng/ml



#14 DINOSEB

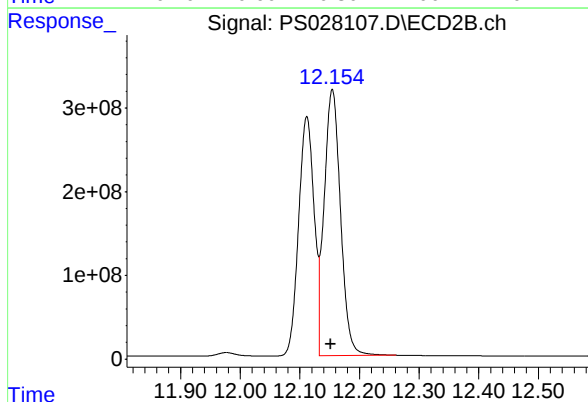
R.T.: 11.077 min
Delta R.T.: 0.004 min
Response: 3200356313
Conc: 706.55 ng/ml



#15 Picloram

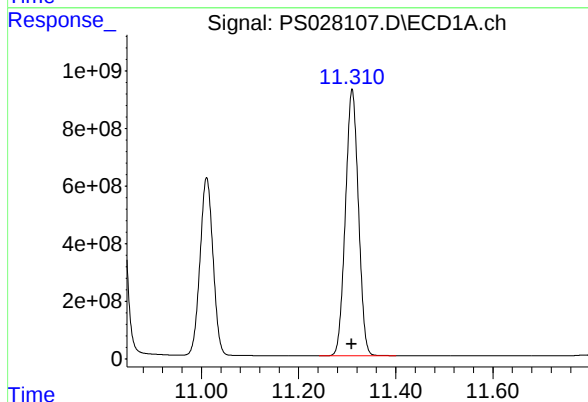
R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 24682187903
Conc: 715.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS103124



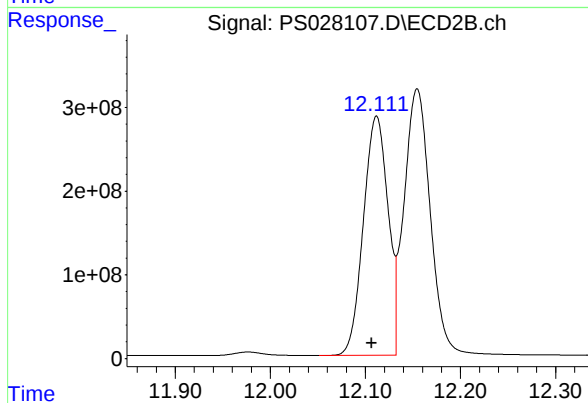
#15 Picloram

R.T.: 12.154 min
Delta R.T.: 0.003 min
Response: 6071417683
Conc: 733.64 ng/ml



#16 DCPA

R.T.: 11.310 min
Delta R.T.: 0.000 min
Response: 17149694727
Conc: 718.26 ng/ml



#16 DCPA

R.T.: 12.112 min
Delta R.T.: 0.005 min
Response: 5152887257
Conc: 732.11 ng/ml

RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR16
Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593
Instrument ID: ECD_S **Calibration Date(s):** 11/06/2024 11/06/2024
Calibration Times: 09:48 11:24

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

LAB FILE ID:	RT 200 = <u>PS028253.D</u>	RT 500 = <u>PS028254.D</u>
RT 750 = <u>PS028255.D</u>	RT 1000 = <u>PS028256.D</u>	RT 1500 = <u>PS028257.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	9.57	9.57	9.57	9.57	9.57	9.57	9.47	9.67
2,4,5-TP(Silvex)	9.28	9.28	9.28	9.28	9.28	9.28	9.18	9.38
2,4-D	8.39	8.39	8.39	8.39	8.39	8.39	8.29	8.49
2,4-DB	10.15	10.15	10.15	10.15	10.15	10.15	10.05	10.25
2,4-DCAA	7.26	7.26	7.26	7.26	7.26	7.26	7.16	7.36
DICAMBA	7.45	7.45	7.45	7.45	7.45	7.45	7.35	7.55
DICHLORPROP	8.16	8.16	8.16	8.16	8.16	8.16	8.06	8.26
Dinoseb	11.36	11.37	11.36	11.37	11.36	11.36	11.26	11.46

RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR16
Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593
Instrument ID: ECD_S **Calibration Date(s):** 11/06/2024 11/06/2024
Calibration Times: 09:48 11:24

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

LAB FILE ID:	RT 200 = <u>PS028253.D</u>	RT 500 = <u>PS028254.D</u>
RT 750 = <u>PS028255.D</u>	RT 1000 = <u>PS028256.D</u>	RT 1500 = <u>PS028257.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	10.35	10.34	10.34	10.34	10.34	10.34	10.24	10.44
2,4,5-TP(Silvex)	9.92	9.92	9.92	9.92	9.92	9.92	9.82	10.02
2,4-D	9.02	9.02	9.02	9.02	9.02	9.02	8.92	9.12
2,4-DB	10.91	10.91	10.91	10.91	10.91	10.91	10.81	11.01
2,4-DCAA	7.77	7.77	7.77	7.77	7.77	7.76	7.66	7.86
DICAMBA	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
DICHLORPROP	8.68	8.68	8.68	8.68	8.68	8.68	8.58	8.78
Dinoseb	11.29	11.29	11.29	11.29	11.29	11.29	11.19	11.39

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16
Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593
Instrument ID: ECD_S **Calibration Date(s):** 11/06/2024 11/06/2024
Calibration Times: 09:48 11:24
GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028253.D</u>		CF 500 = <u>PS028254.D</u>			
CF 750 = <u>PS028255.D</u>		CF 1000 = <u>PS028256.D</u>		CF 1500 = <u>PS028257.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	18605000000	17699100000	17397600000	16764700000	16211200000	17335500000	5
2,4,5-TP(Silvex)	18381400000	17393400000	17071400000	16437600000	15844400000	17025600000	6
2,4-D	3499520000	3198390000	3124710000	3013570000	2944350000	3156110000	7
2,4-DB	2953740000	2827030000	2824430000	2764350000	2763120000	2826530000	3
2,4-DCAA	2911600000	2530960000	2546610000	2432090000	2385800000	2561410000	8
DICAMBA	11781800000	11346100000	11291200000	10963200000	10760300000	11228500000	3
DICHLORPROP	3148380000	2853420000	2784160000	2683190000	2627250000	2819280000	7
Dinoseb	15121200000	14574900000	14554700000	14126500000	13917700000	14459000000	3

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16
Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593
Instrument ID: ECD_S **Calibration Date(s):** 11/06/2024 11/06/2024
Calibration Times: 09:48 11:24
GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028253.D</u>		CF 500 = <u>PS028254.D</u>			
CF 750 = <u>PS028255.D</u>		CF 1000 = <u>PS028256.D</u>		CF 1500 = <u>PS028257.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	12788400000	12436700000	12406800000	12012600000	11689500000	12266800000	3
2,4,5-TP(Silvex)	12950900000	12612000000	12578800000	12192000000	11879700000	12442700000	3
2,4-D	2348170000	2233230000	2226180000	2175820000	2167290000	2230140000	3
2,4-DB	1594690000	1565870000	1590090000	1575360000	1598480000	1584900000	1
2,4-DCAA	1855960000	1741220000	1731630000	1690270000	1689820000	1741780000	4
DICAMBA	7963390000	8019410000	8155900000	8026840000	7997280000	8032560000	1
DICHLORPROP	2102670000	2006780000	2002310000	1963630000	1970820000	2009240000	3
Dinoseb	8938980000	8771400000	8800740000	8588540000	8508600000	8721650000	2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028253.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 09:48
 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 06 11:36:54 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:36:47 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	7.262	7.765	582.3E6	371.2E6	223.512	211.533
Target Compounds						
1) T Dalapon	2.653	2.711	642.4E6	562.1E6	181.633	189.953
2) T 3,5-DICHL...	6.429	6.716	776.6E6	497.7E6	203.432	195.199
3) T 4-Nitroph...	7.062	7.291	321.8E6	224.2E6	193.828	194.321
5) T DICAMBA	7.451	7.966	2215.0E6	1497.1E6	195.228	186.177
6) T MCPP	7.631	8.064	125.9E6	109.8E6	16.918	18.245
7) T MCPA	7.780	8.309	187.1E6	163.1E6	18.066	19.509
8) T DICHLORPROP	8.162	8.684	591.9E6	395.3E6	206.431	195.806
9) T 2,4-D	8.394	9.015	657.9E6	441.5E6	205.017	196.565
10) T Pentachlo...	8.693	9.547	8878.0E6	5945.0E6	203.188	199.509
11) T 2,4,5-TP ...	9.276	9.923	3492.5E6	2460.7E6	201.633	195.549
12) T 2,4,5-T	9.569	10.345	3534.9E6	2429.8E6	200.660	195.776
13) T 2,4-DB	10.147	10.912	561.2E6	303.0E6	197.443	191.585
14) T DINOSEB	11.364	11.292	2842.8E6	1680.5E6	194.787	191.515
15) T Picloram	11.169	12.392	5567.6E6	3307.4E6	190.816	182.953
16) T DCPA	11.656	12.339	4826.0E6	2771.8E6	200.001	195.462

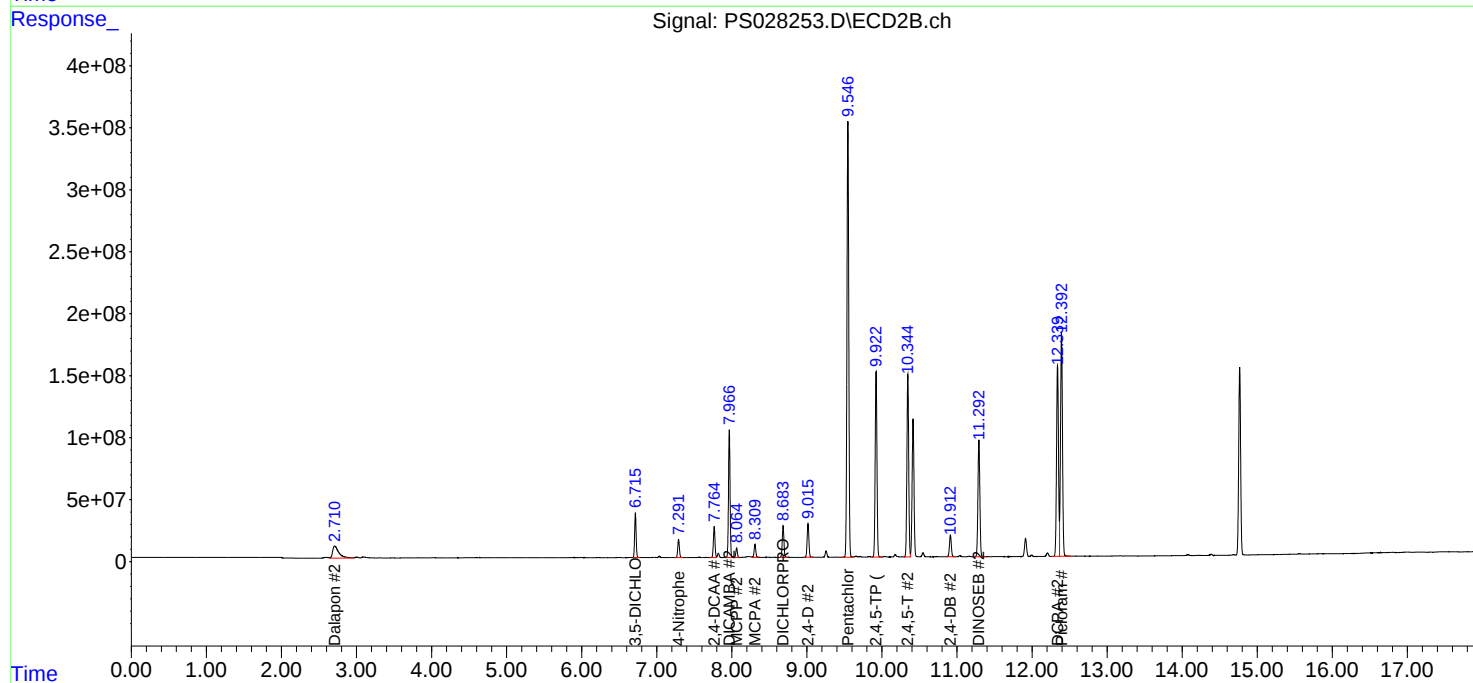
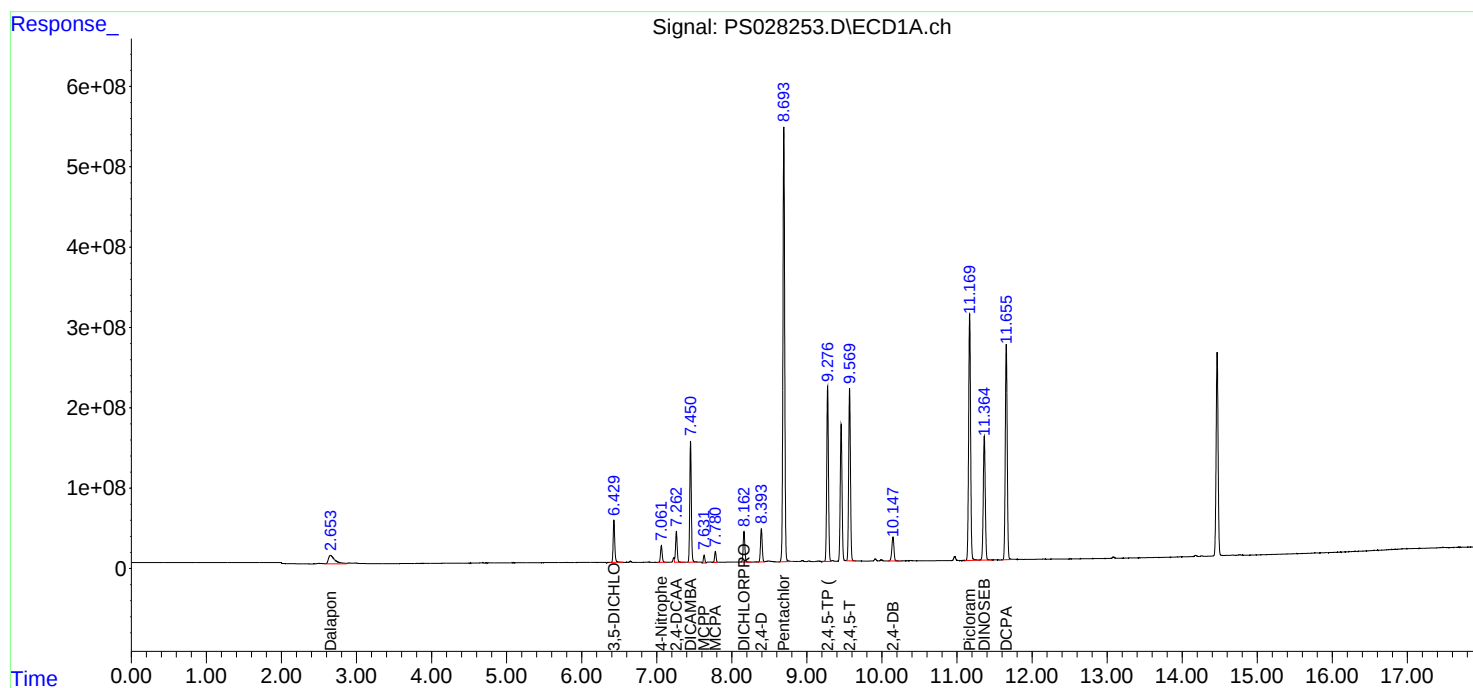
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

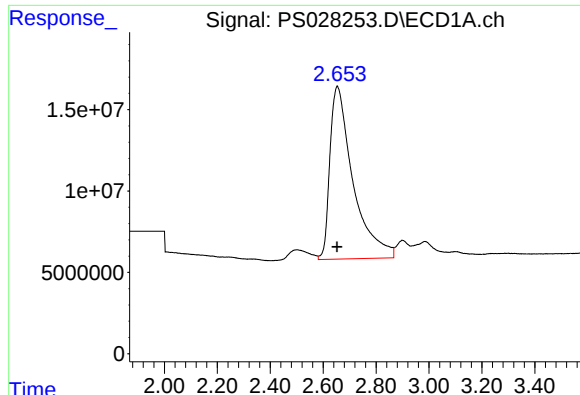
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028253.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 09:48
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 11:36:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:36:47 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

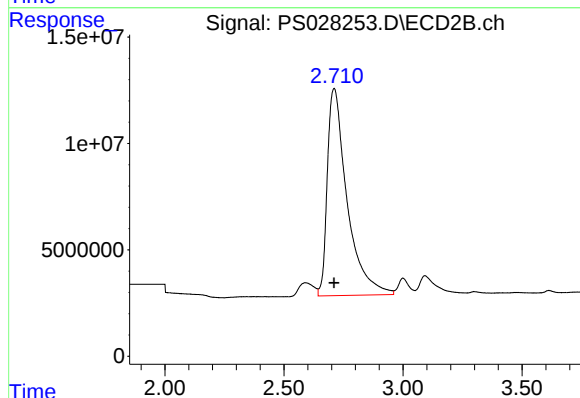




#1 Dalapon

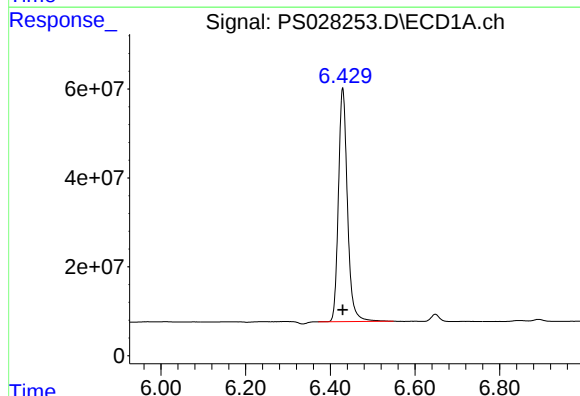
R.T.: 2.653 min
Delta R.T.: 0.000 min
Response: 642355079
Conc: 181.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



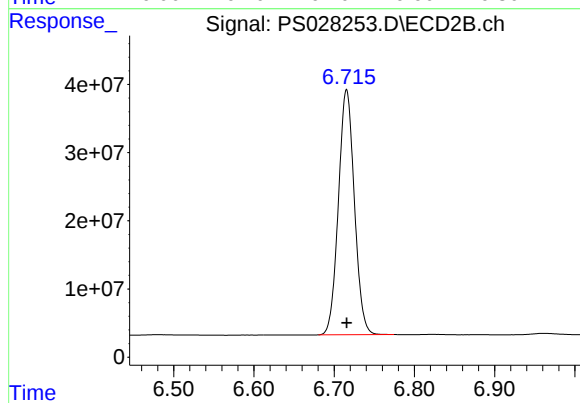
#1 Dalapon

R.T.: 2.711 min
Delta R.T.: 0.000 min
Response: 562114992
Conc: 189.95 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.429 min
Delta R.T.: 0.000 min
Response: 776591468
Conc: 203.43 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.716 min
Delta R.T.: 0.000 min
Response: 497741373
Conc: 195.20 ng/ml

Response_ Signal: PS028253.D\ECD1A.ch

#3 4-Nitrophenol

R.T.: 7.062 min
Delta R.T.: 0.000 min
Response: 321799911
Conc: 193.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Time

Response_ Signal: PS028253.D\ECD2B.ch

#3 4-Nitrophenol

R.T.: 7.291 min
Delta R.T.: 0.000 min
Response: 224189111
Conc: 194.32 ng/ml

Time

Response_ Signal: PS028253.D\ECD1A.ch

#4 2,4-DCAA

R.T.: 7.262 min
Delta R.T.: 0.000 min
Response: 582320101
Conc: 223.51 ng/ml

Time

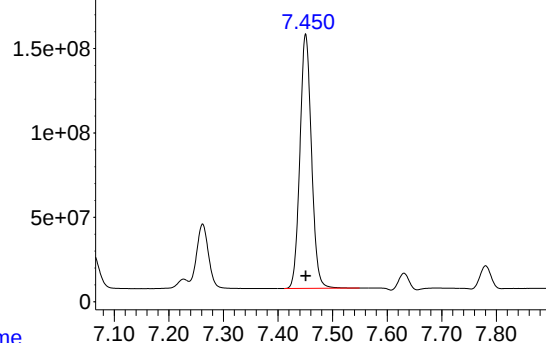
Response_ Signal: PS028253.D\ECD2B.ch

#4 2,4-DCAA

R.T.: 7.765 min
Delta R.T.: 0.000 min
Response: 371191822
Conc: 211.53 ng/ml

Time

Response_ Signal: PS028253.D\ECD1A.ch

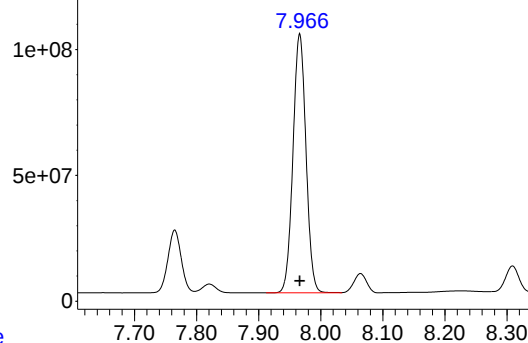


#5 DICAMBA

R.T.: 7.451 min
Delta R.T.: 0.000 min
Response: 2214982590
Conc: 195.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

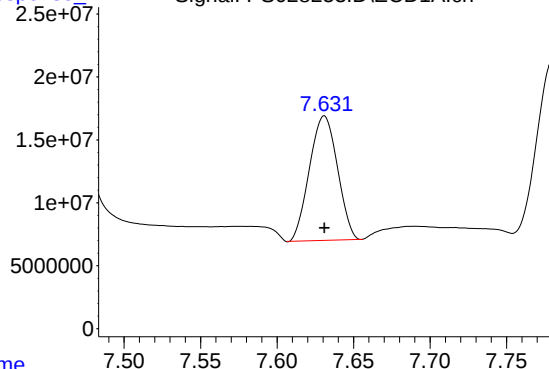
Time Response_ Signal: PS028253.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.966 min
Delta R.T.: 0.000 min
Response: 1497117095
Conc: 186.18 ng/ml

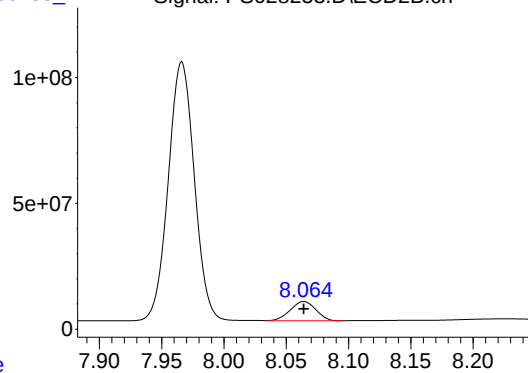
Time Response_ Signal: PS028253.D\ECD1A.ch



#6 MCPP

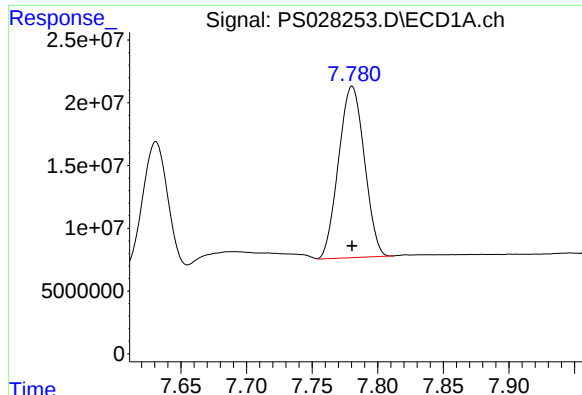
R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 125946998
Conc: 16.92 ug/ml

Time Response_ Signal: PS028253.D\ECD2B.ch



#6 MCPP

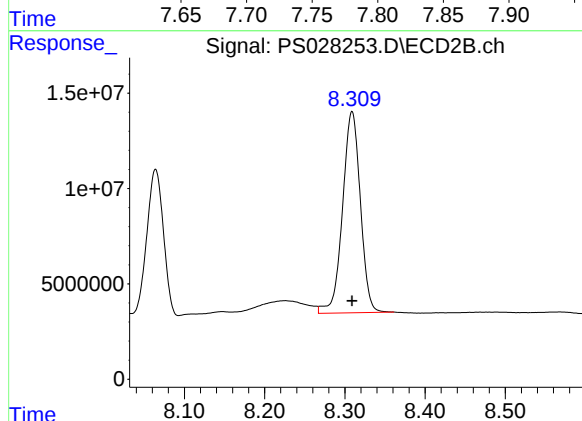
R.T.: 8.064 min
Delta R.T.: 0.000 min
Response: 109825902
Conc: 18.24 ug/ml



#7 MCPA

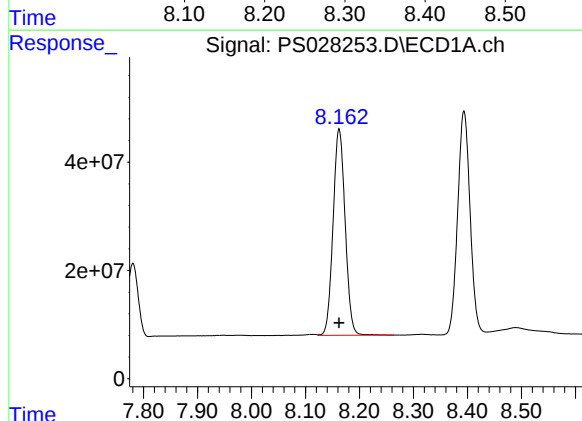
R.T.: 7.780 min
Delta R.T.: 0.000 min
Response: 187056081
Conc: 18.07 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



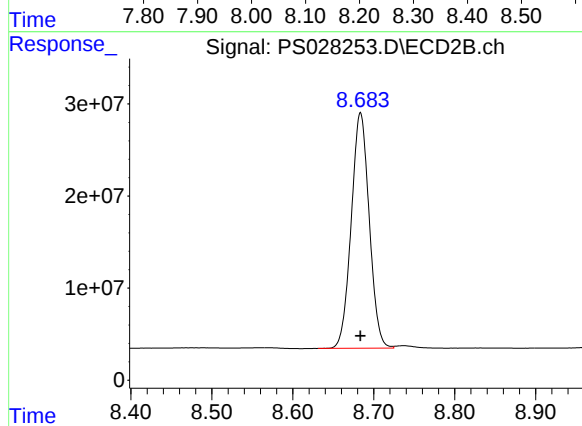
#7 MCPA

R.T.: 8.309 min
Delta R.T.: 0.000 min
Response: 163086934
Conc: 19.51 ug/ml



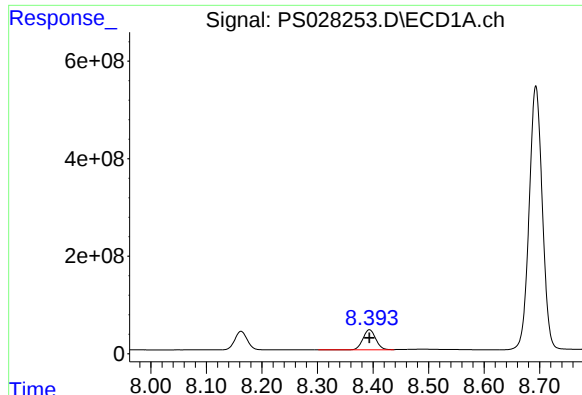
#8 DICHLORPROP

R.T.: 8.162 min
Delta R.T.: 0.000 min
Response: 591896274
Conc: 206.43 ng/ml



#8 DICHLORPROP

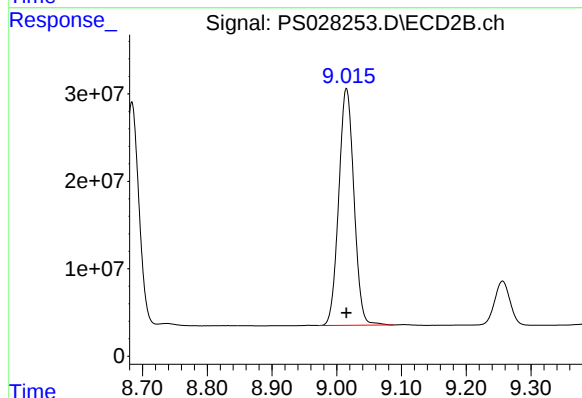
R.T.: 8.684 min
Delta R.T.: 0.000 min
Response: 395301941
Conc: 195.81 ng/ml



#9 2,4-D

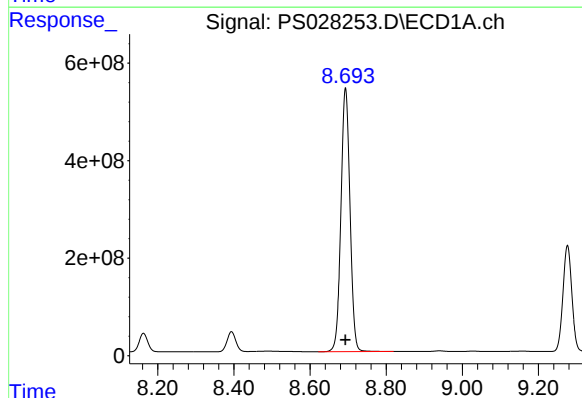
R.T.: 8.394 min
Delta R.T.: 0.000 min
Response: 657909754
Conc: 205.02 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



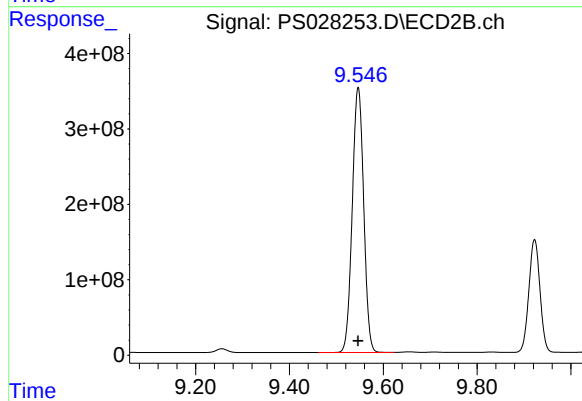
#9 2,4-D

R.T.: 9.015 min
Delta R.T.: 0.000 min
Response: 441456361
Conc: 196.57 ng/ml



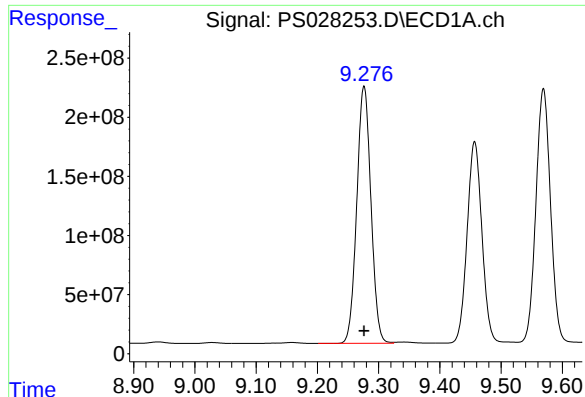
#10 Pentachlorophenol

R.T.: 8.693 min
Delta R.T.: 0.000 min
Response: 8877976889
Conc: 203.19 ng/ml



#10 Pentachlorophenol

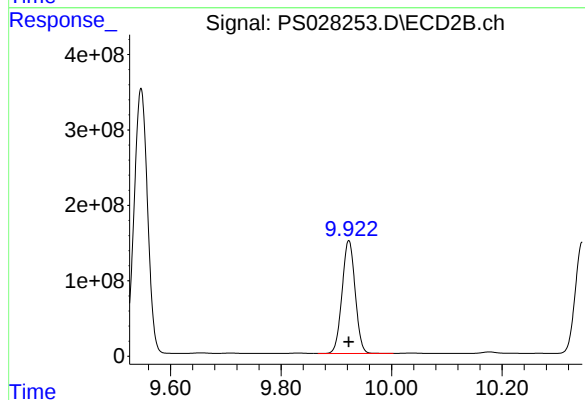
R.T.: 9.547 min
Delta R.T.: 0.000 min
Response: 5945020071
Conc: 199.51 ng/ml



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

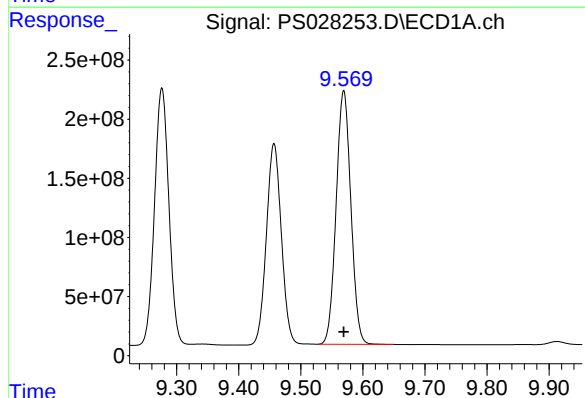
R.T.: 9.276 min
Delta R.T.: 0.000 min
Response: 3492467343
Conc: 201.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



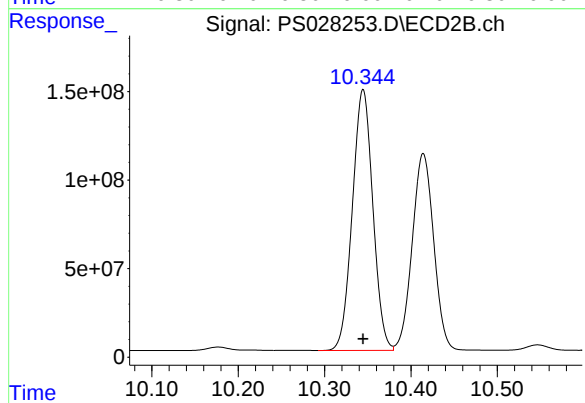
#11 2,4,5-TP (SILVEX)

R.T.: 9.923 min
Delta R.T.: 0.000 min
Response: 2460679717
Conc: 195.55 ng/ml



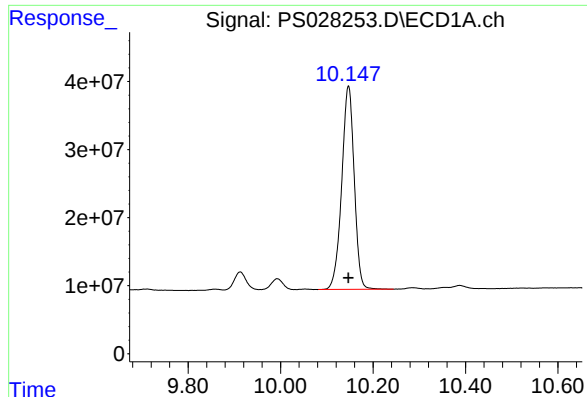
#12 2,4,5-T

R.T.: 9.569 min
Delta R.T.: 0.000 min
Response: 3534947725
Conc: 200.66 ng/ml



#12 2,4,5-T

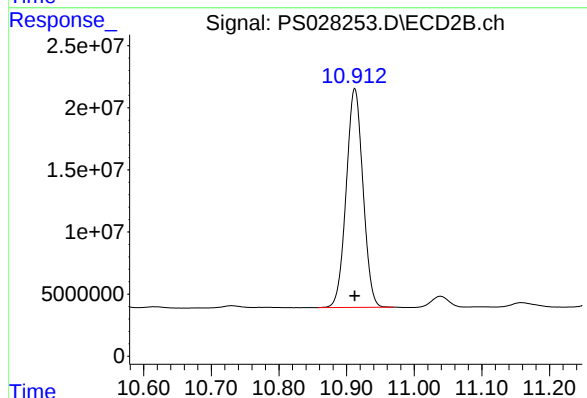
R.T.: 10.345 min
Delta R.T.: 0.000 min
Response: 2429791973
Conc: 195.78 ng/ml



#13 2,4-DB

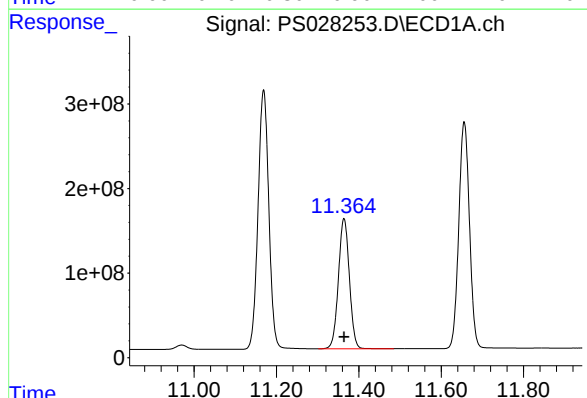
R.T.: 10.147 min
Delta R.T.: 0.000 min
Response: 561209882
Conc: 197.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



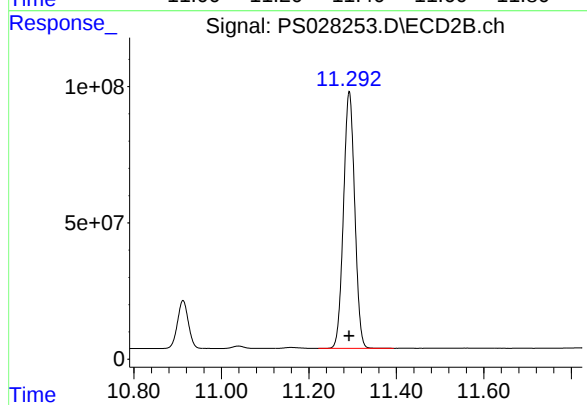
#13 2,4-DB

R.T.: 10.912 min
Delta R.T.: 0.000 min
Response: 302991891
Conc: 191.58 ng/ml



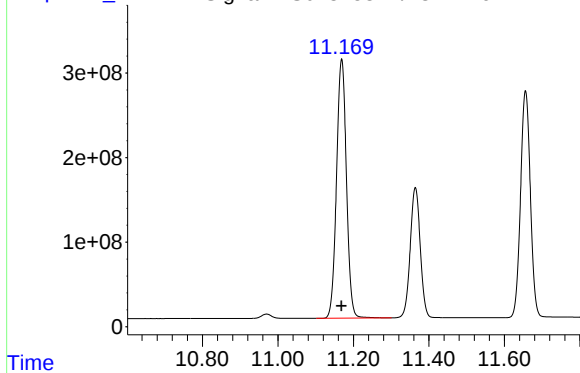
#14 DINOSEB

R.T.: 11.364 min
Delta R.T.: 0.000 min
Response: 2842779862
Conc: 194.79 ng/ml



#14 DINOSEB

R.T.: 11.292 min
Delta R.T.: 0.000 min
Response: 1680529004
Conc: 191.52 ng/ml



R.T.: 11.169 min
Delta R.T.: 0.000 min
Response: 5567638798
Conc: 190.82 ng/ml

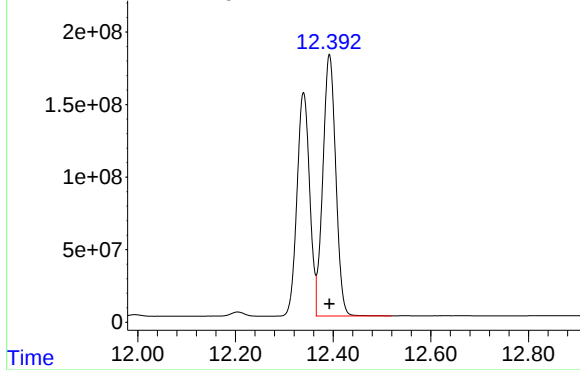
Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Time

Response_

Signal: PS028253.D\ECD2B.ch

#15 Picloram



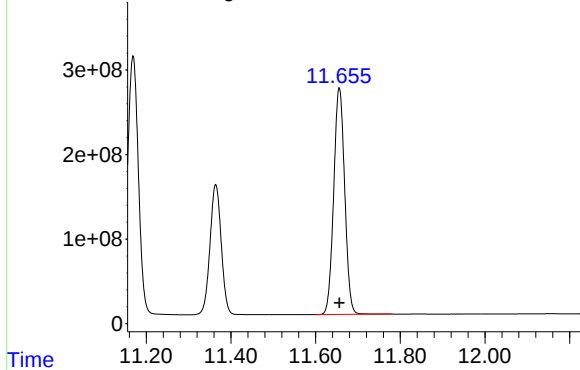
R.T.: 12.392 min
Delta R.T.: 0.000 min
Response: 3307364314
Conc: 182.95 ng/ml

Time

Response_

Signal: PS028253.D\ECD1A.ch

#16 DCPA



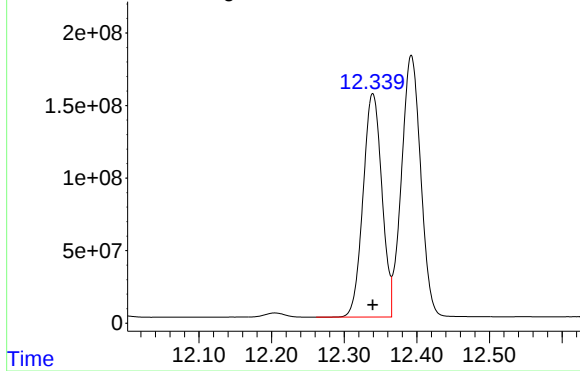
R.T.: 11.656 min
Delta R.T.: 0.000 min
Response: 4826032560
Conc: 200.00 ng/ml

Time

Response_

Signal: PS028253.D\ECD2B.ch

#16 DCPA



R.T.: 12.339 min
Delta R.T.: 0.000 min
Response: 2771776460
Conc: 195.46 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028254.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 10:12
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 11:33:09 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:33:01 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	7.262	7.765	1265.5E6	870.6E6	492.828m	501.380
Target Compounds							
1) T	Dalapon	2.654	2.710	1576.6E6	1334.9E6	449.078	454.559
2) T	3,5-DICHL...	6.431	6.716	1771.1E6	1178.0E6	470.764	465.677
3) T	4-Nitroph...	7.062	7.291	748.3E6	518.6E6	456.609	456.042
5) T	DICAMBA	7.452	7.967	5332.7E6	3769.1E6	471.139	466.034
6) T	MCPD	7.634	8.067	349.6E6	280.7E6	45.882	46.335
7) T	MCPA	7.784	8.312	480.5E6	382.5E6	45.988	46.343
8) T	DICHLORPROP	8.163	8.684	1341.1E6	943.2E6	475.774	470.524
9) T	2,4-D	8.394	9.016	1503.2E6	1049.6E6	475.477	470.744
10) T	Pentachlo...	8.694	9.546	21029.5E6	14322.7E6	481.316	479.818
11) T	2,4,5-TP ...	9.277	9.923	8261.8E6	5990.7E6	479.437	475.627
12) T	2,4,5-T	9.570	10.344	8407.1E6	5907.4E6	479.082	475.572
13) T	2,4-DB	10.147	10.912	1342.8E6	743.8E6	475.218	471.354
14) T	DINOSEB	11.365	11.293	6850.2E6	4122.6E6	470.326	469.215
15) T	Picloram	11.169	12.393	13862.1E6	8612.2E6	472.396	469.122
16) T	DCPA	11.657	12.339	11638.0E6	6852.1E6	482.282	480.529

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028254.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 10:12
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

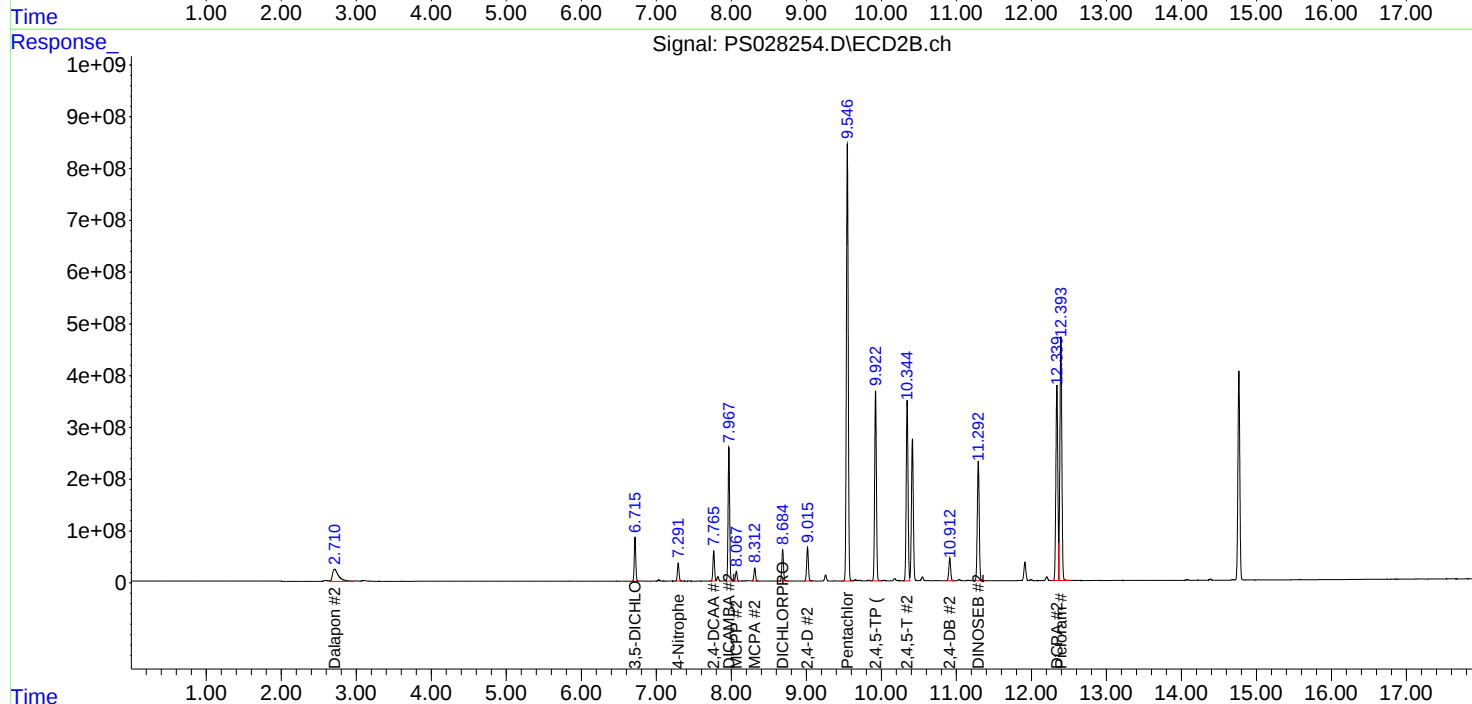
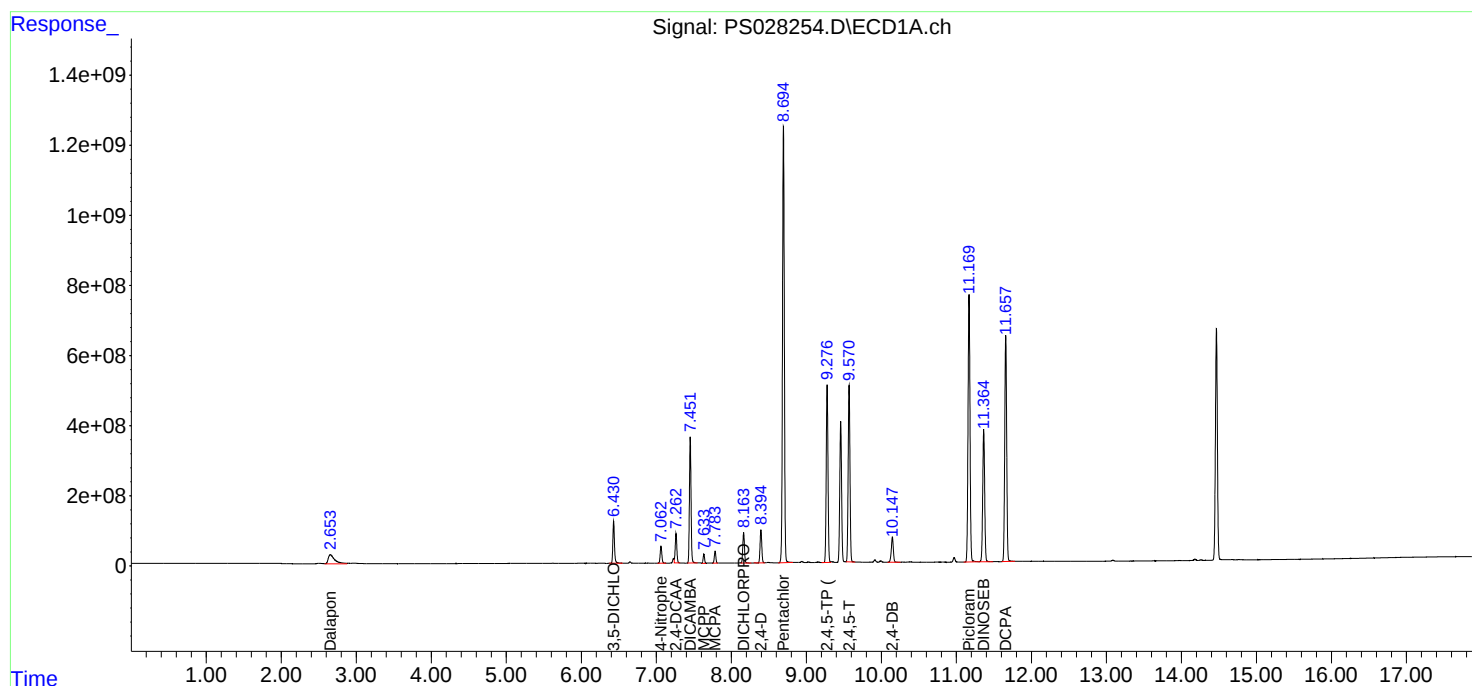
APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 11:33:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:33:01 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: PS028254.D\ECD1A.ch

#1 Dalapon

R.T.: 2.654 min
Delta R.T.: 0.000 min
Response: 1576612145
Conc: 449.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time

Response_ Signal: PS028254.D\ECD2B.ch

#1 Dalapon

R.T.: 2.710 min
Delta R.T.: 0.000 min
Response: 1334908950
Conc: 454.56 ng/ml

Time

Response_ Signal: PS028254.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.431 min
Delta R.T.: 0.000 min
Response: 1771119667
Conc: 470.76 ng/ml

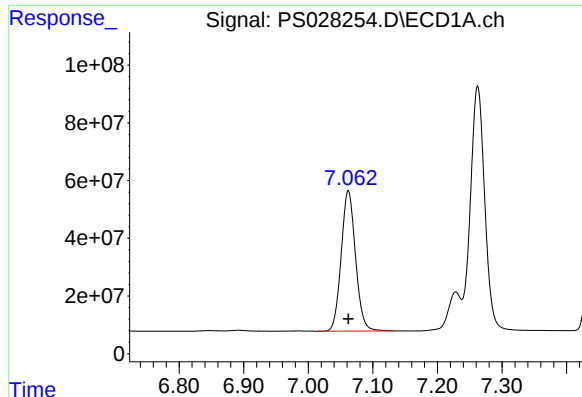
Time

Response_ Signal: PS028254.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.716 min
Delta R.T.: 0.000 min
Response: 1177952360
Conc: 465.68 ng/ml

Time



#3 4-Nitrophenol

R.T.: 7.062 min
Delta R.T.: 0.000 min
Response: 748328913
Conc: 456.61 ng/ml

Instrument :

ECD_S

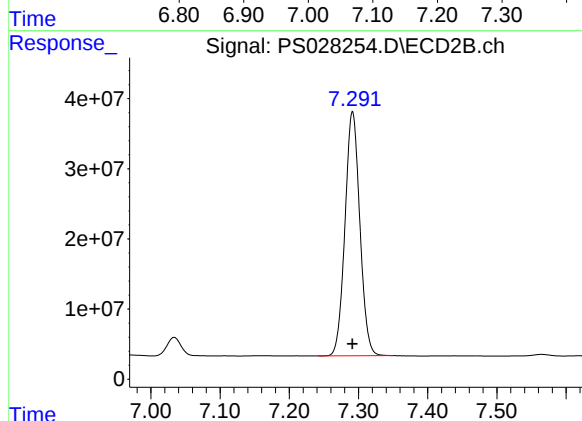
ClientSampleId :

HSTDICC500

Manual Integrations

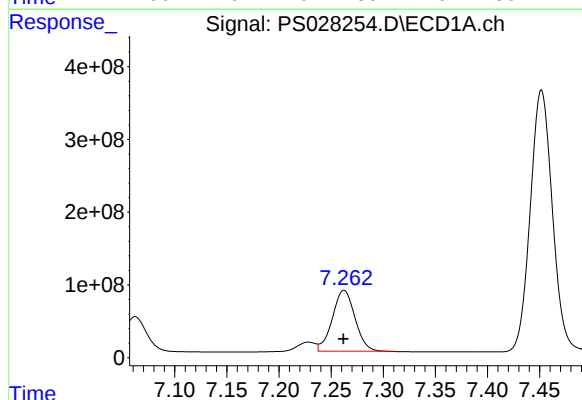
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



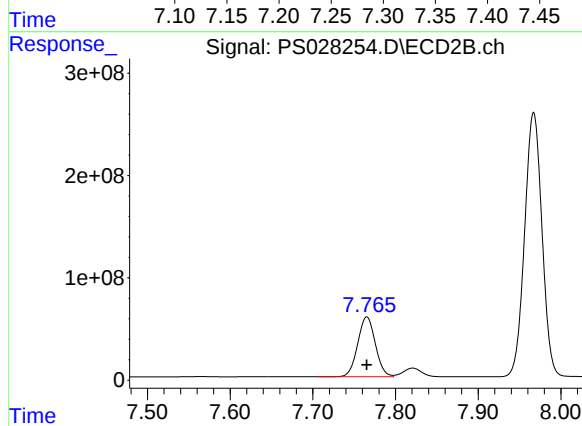
#3 4-Nitrophenol

R.T.: 7.291 min
Delta R.T.: 0.000 min
Response: 518627832
Conc: 456.04 ng/ml



#4 2,4-DCAA

R.T.: 7.262 min
Delta R.T.: 0.000 min
Response: 1265480600
Conc: 492.83 ng/ml m



#4 2,4-DCAA

R.T.: 7.765 min
Delta R.T.: 0.000 min
Response: 870608257
Conc: 501.38 ng/ml

Response_ Signal: PS028254.D\ECD1A.ch

#5 DICAMBA

R.T.: 7.452 min
Delta R.T.: 0.000 min
Response: 5332661830
Conc: 471.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time

Response_ Signal: PS028254.D\ECD2B.ch

#5 DICAMBA

R.T.: 7.967 min
Delta R.T.: 0.000 min
Response: 3769124451
Conc: 466.03 ng/ml

Time

Response_ Signal: PS028254.D\ECD1A.ch

#6 MCP

R.T.: 7.634 min
Delta R.T.: 0.000 min
Response: 349556539
Conc: 45.88 ug/ml

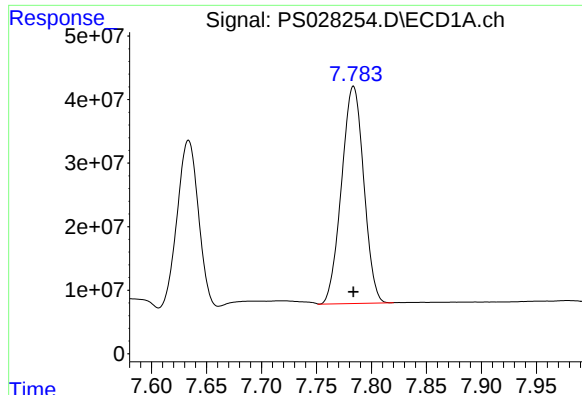
Time

Response_ Signal: PS028254.D\ECD2B.ch

#6 MCP

R.T.: 8.067 min
Delta R.T.: 0.000 min
Response: 280696221
Conc: 46.33 ug/ml

Time



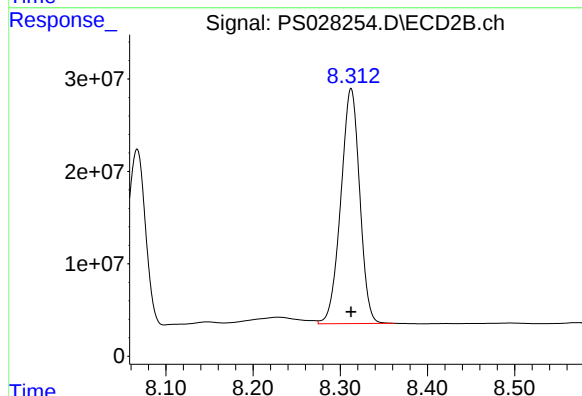
#7 MCPA

R.T.: 7.784 min
Delta R.T.: 0.000 min
Response: 480539376
Conc: 45.99 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

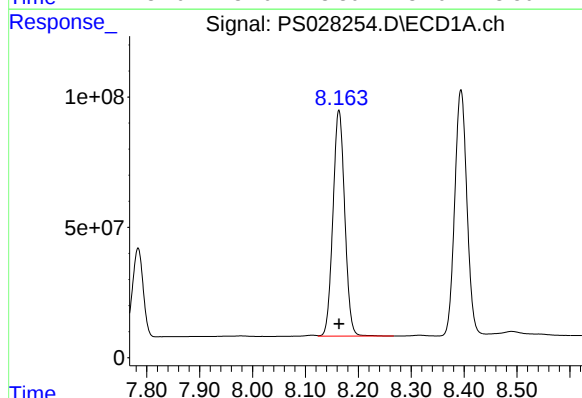
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



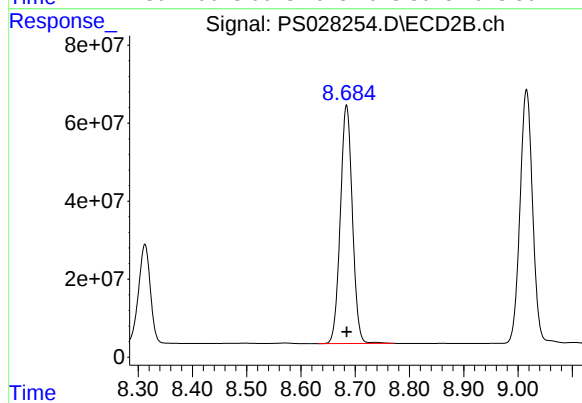
#7 MCPA

R.T.: 8.312 min
Delta R.T.: 0.000 min
Response: 382498869
Conc: 46.34 ug/ml



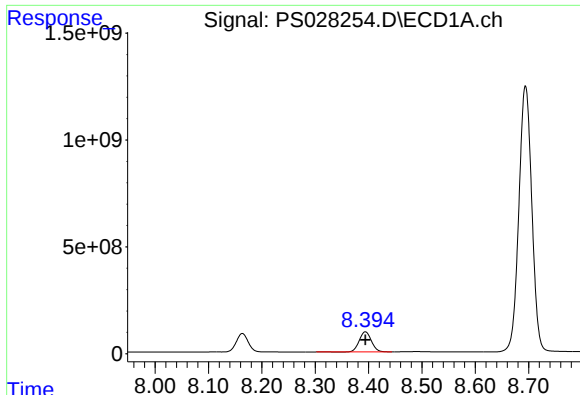
#8 DICHLORPROP

R.T.: 8.163 min
Delta R.T.: 0.000 min
Response: 1341105308
Conc: 475.77 ng/ml



#8 DICHLORPROP

R.T.: 8.684 min
Delta R.T.: 0.000 min
Response: 943187040
Conc: 470.52 ng/ml



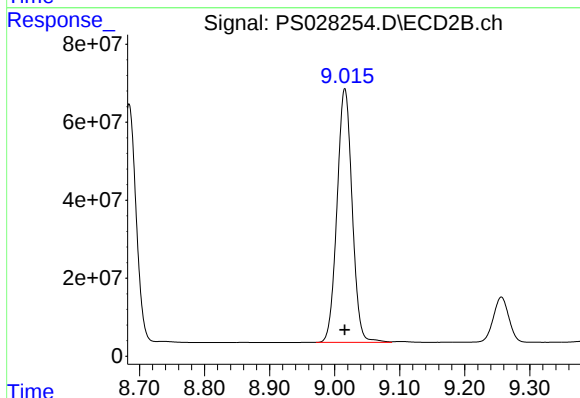
#9 2,4-D

R.T.: 8.394 min
Delta R.T.: 0.000 min
Response: 1503244269
Conc: 475.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

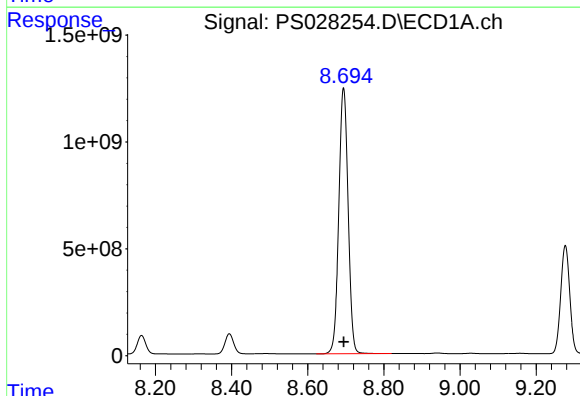
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



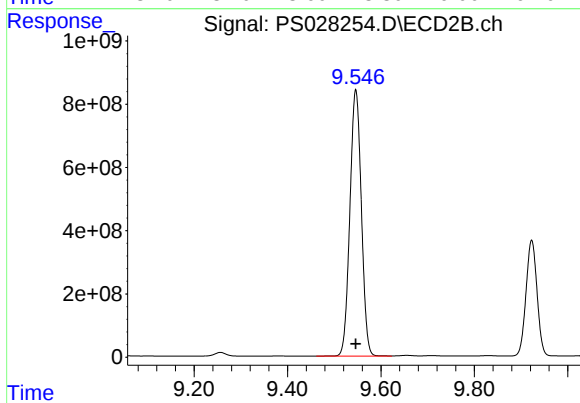
#9 2,4-D

R.T.: 9.016 min
Delta R.T.: 0.000 min
Response: 1049620163
Conc: 470.74 ng/ml



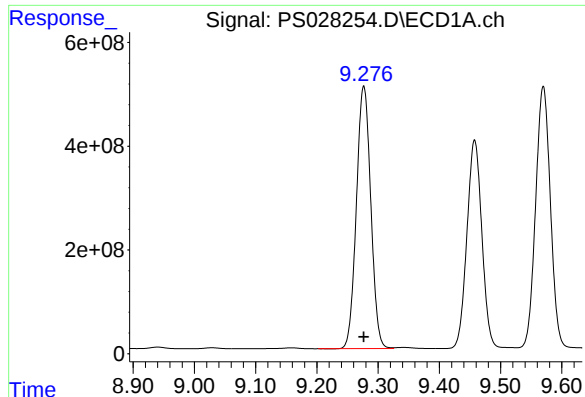
#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: 0.000 min
Response: 21029542330
Conc: 481.32 ng/ml



#10 Pentachlorophenol

R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 14322670005
Conc: 479.82 ng/ml



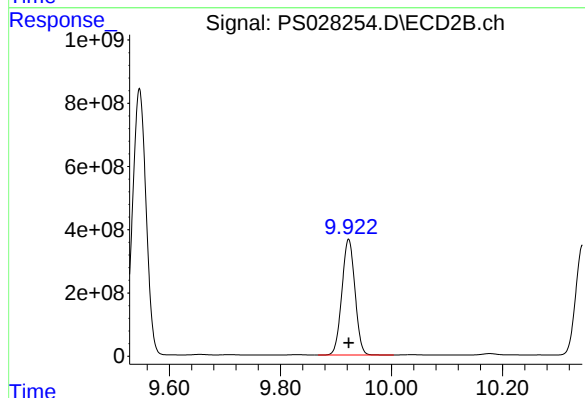
#11 2,4,5-TP (SILVEX)

R.T.: 9.277 min
Delta R.T.: 0.000 min
Response: 8261845990
Conc: 479.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

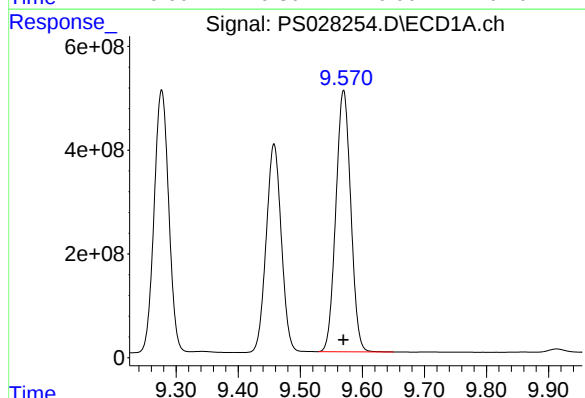
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



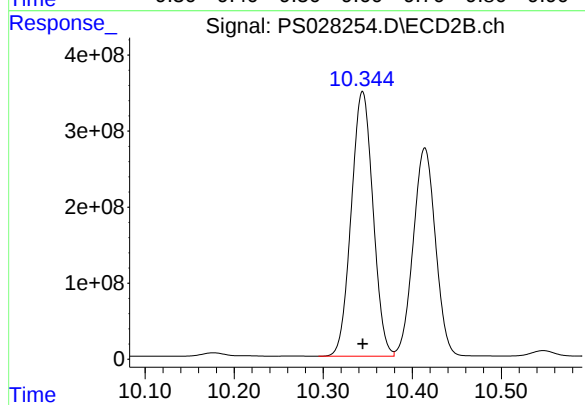
#11 2,4,5-TP (SILVEX)

R.T.: 9.923 min
Delta R.T.: 0.000 min
Response: 5990708385
Conc: 475.63 ng/ml



#12 2,4,5-T

R.T.: 9.570 min
Delta R.T.: 0.000 min
Response: 8407092602
Conc: 479.08 ng/ml



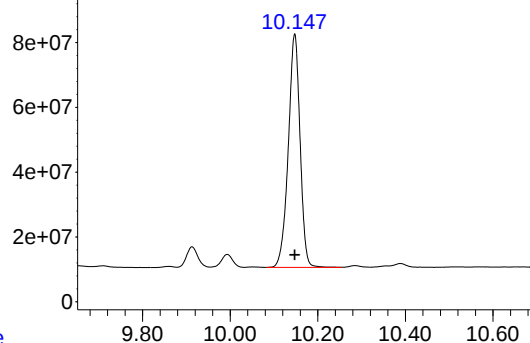
#12 2,4,5-T

R.T.: 10.344 min
Delta R.T.: 0.000 min
Response: 5907419244
Conc: 475.57 ng/ml

Response_

Signal: PS028254.D\ECD1A.ch

#13 2,4-DB



R.T.: 10.147 min
Delta R.T.: 0.000 min
Response: 1342838914
Conc: 475.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Manual Integrations
APPROVED

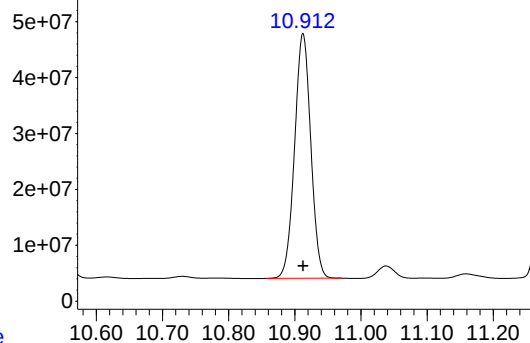
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time

Response_

Signal: PS028254.D\ECD2B.ch

#13 2,4-DB



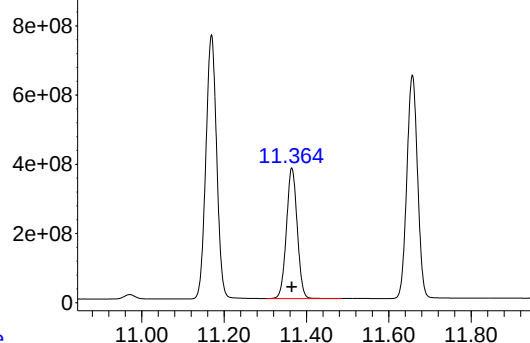
R.T.: 10.912 min
Delta R.T.: 0.000 min
Response: 743787551
Conc: 471.35 ng/ml

Time

Response_

Signal: PS028254.D\ECD1A.ch

#14 DINOSEB



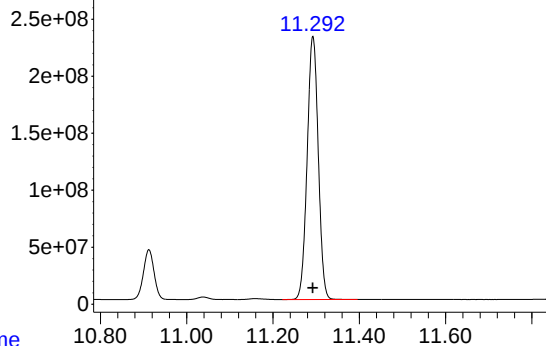
R.T.: 11.365 min
Delta R.T.: 0.000 min
Response: 6850183894
Conc: 470.33 ng/ml

Time

Response_

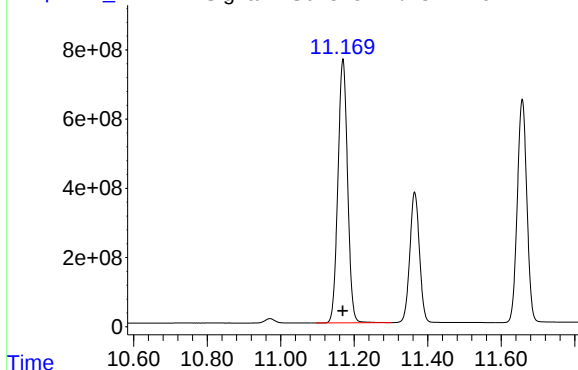
Signal: PS028254.D\ECD2B.ch

#14 DINOSEB



R.T.: 11.293 min
Delta R.T.: 0.000 min
Response: 4122557520
Conc: 469.22 ng/ml

Time

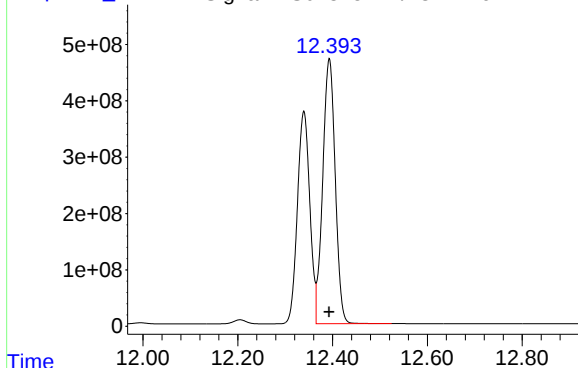


R.T.: 11.169 min
Delta R.T.: 0.000 min
Response: 13862147165
Conc: 472.40 ng/ml

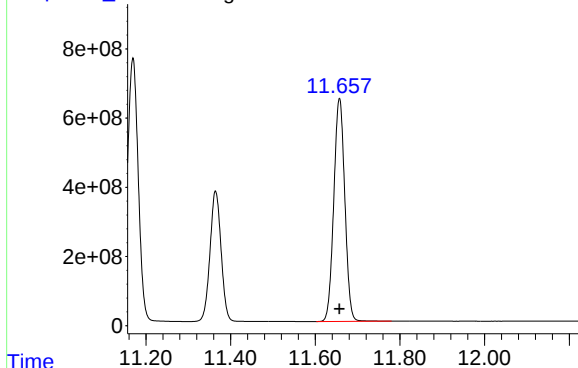
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Manual Integrations
APPROVED

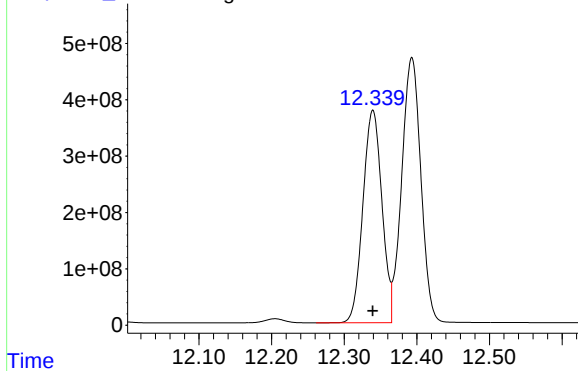
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



R.T.: 12.393 min
Delta R.T.: 0.000 min
Response: 8612156410
Conc: 469.12 ng/ml



R.T.: 11.657 min
Delta R.T.: 0.000 min
Response: 11638043614
Conc: 482.28 ng/ml



R.T.: 12.339 min
Delta R.T.: 0.000 min
Response: 6852136562
Conc: 480.53 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028255.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 10:36
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 06 11:12:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:11:45 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	7.262	7.765	1910.0E6	1298.7E6	750.000	750.000
Target Compounds						
1) T Dalapon	2.653	2.709	2427.3E6	2006.2E6	682.500	682.500
2) T 3,5-DICHL...	6.429	6.715	2591.6E6	1761.8E6	697.500	697.500
3) T 4-Nitroph...	7.061	7.291	1114.6E6	774.4E6	682.500	682.500
5) T DICAMBA	7.451	7.967	7960.3E6	5749.9E6	705.000	705.000
6) T MCPP	7.635	8.069	549.9E6	433.1E6	70.500	70.500
7) T MCPA	7.786	8.315	736.9E6	577.6E6	69.750	69.750
8) T DICHLORPROP	8.163	8.684	1962.8E6	1411.6E6	705.000	705.000
9) T 2,4-D	8.394	9.015	2202.9E6	1569.5E6	705.000	705.000
10) T Pentachlo...	8.694	9.547	30716.5E6	21052.6E6	712.500	712.500
11) T 2,4,5-TP ...	9.277	9.923	12163.4E6	8962.4E6	712.500	712.500
12) T 2,4,5-T	9.569	10.344	12395.8E6	8839.8E6	712.500	712.500
13) T 2,4-DB	10.147	10.912	2012.4E6	1132.9E6	712.500	712.500
14) T DINOSEB	11.364	11.291	10261.0E6	6204.5E6	705.000	705.000
15) T Picloram	11.169	12.393	21022.4E6	13242.0E6	712.500	712.500
16) T DCPA	11.657	12.339	17291.9E6	10255.6E6	720.000	720.000

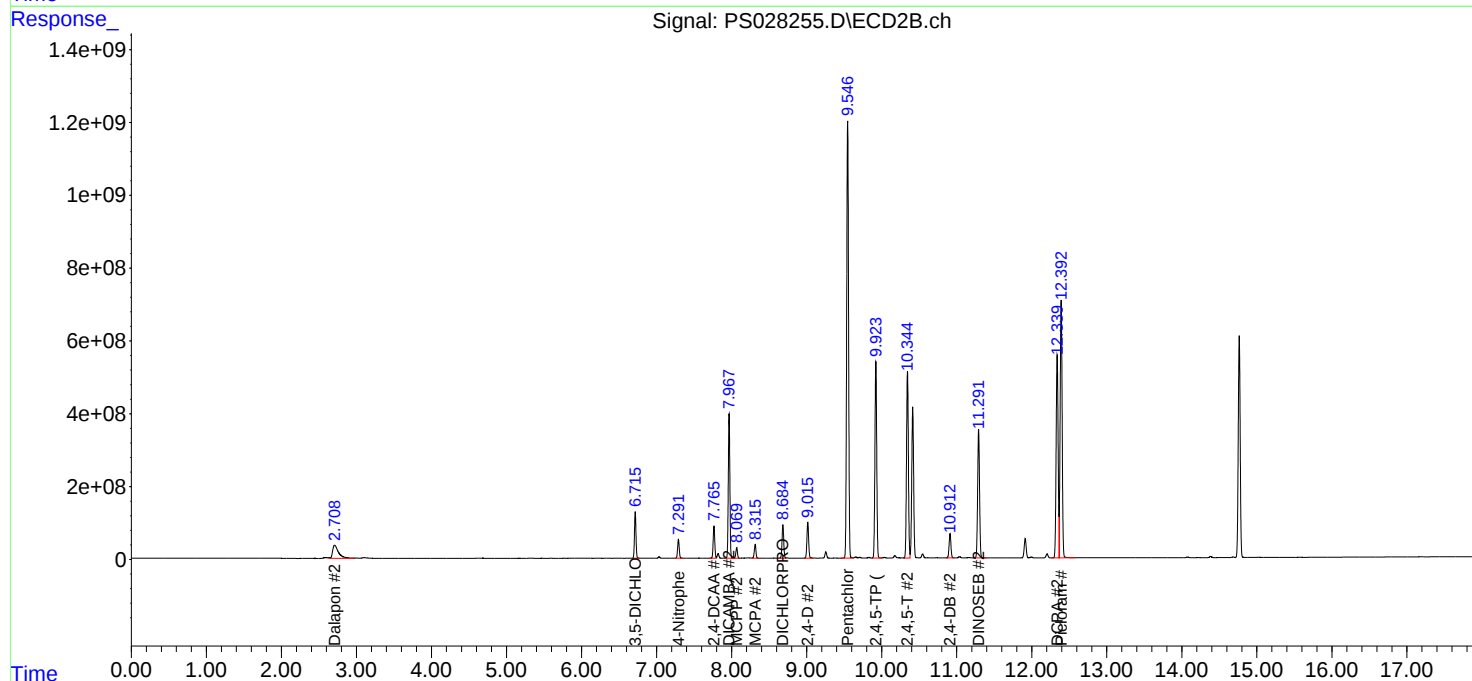
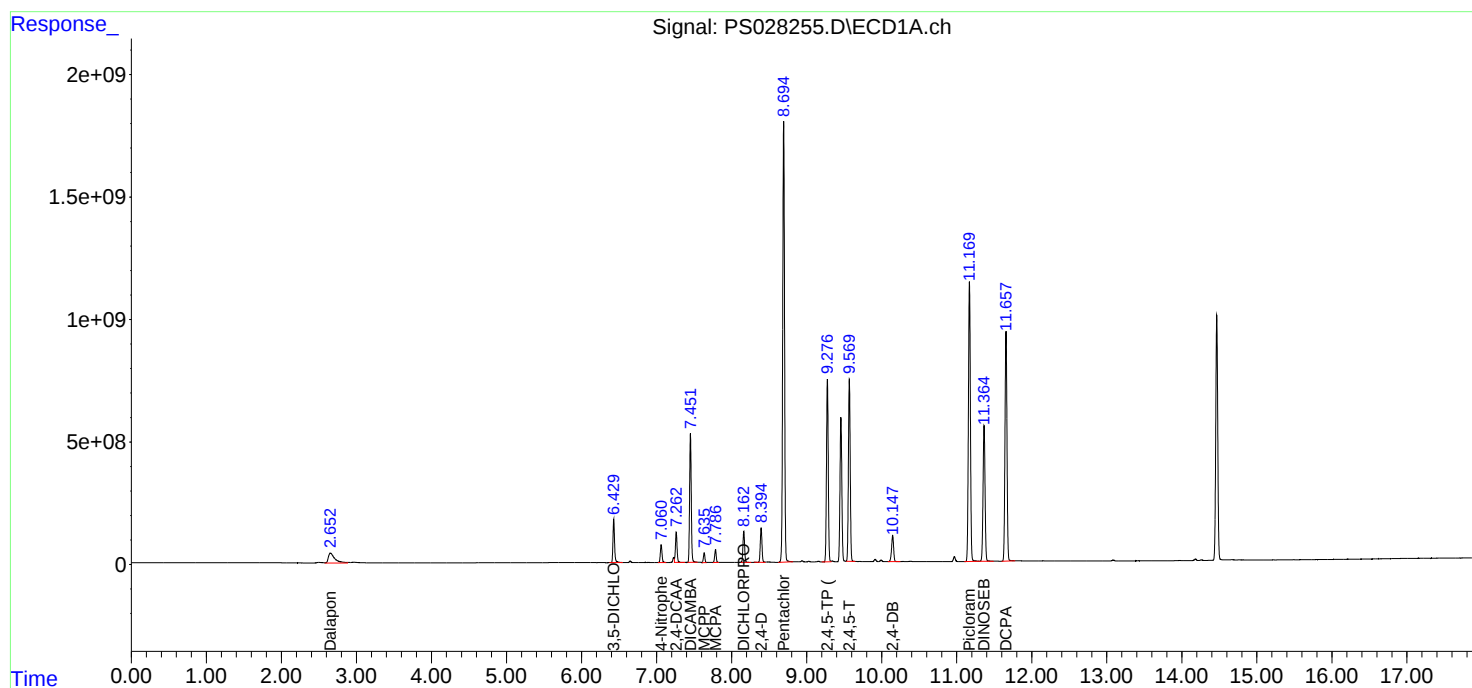
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028255.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 10:36
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 06 11:12:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:11:45 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

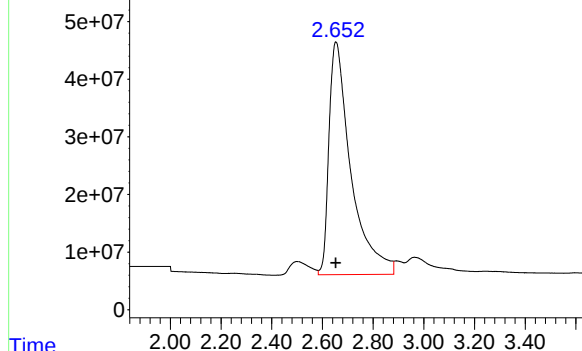


Response_ Signal: PS028255.D\ECD1A.ch

#1 Dalapon

R.T.: 2.653 min
Delta R.T.: 0.000 min
Response: 2427295820
Conc: 682.50 ng/ml

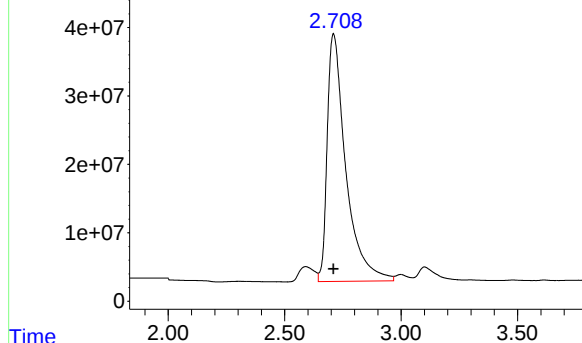
Instrument :
ECD_S
ClientSampleId :
HSTDICC750



Time Response_ Signal: PS028255.D\ECD2B.ch

#1 Dalapon

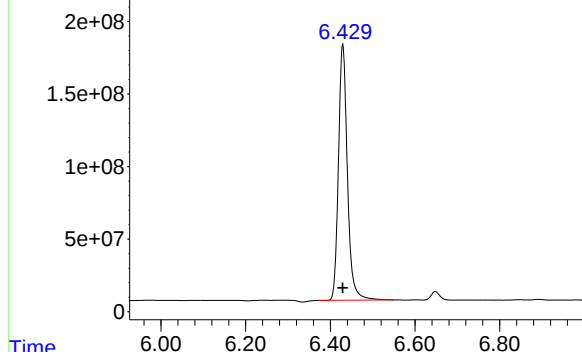
R.T.: 2.709 min
Delta R.T.: 0.000 min
Response: 2006246868
Conc: 682.50 ng/ml



Time Response_ Signal: PS028255.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

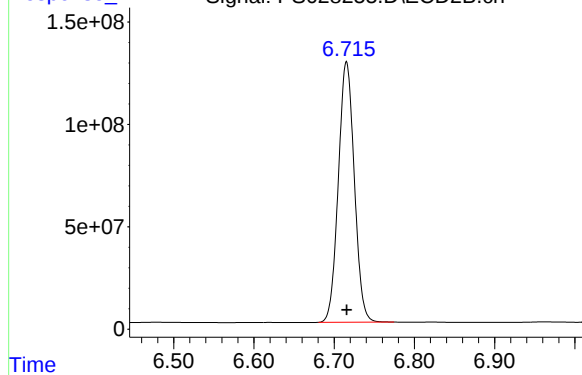
R.T.: 6.429 min
Delta R.T.: 0.000 min
Response: 2591623320
Conc: 697.50 ng/ml

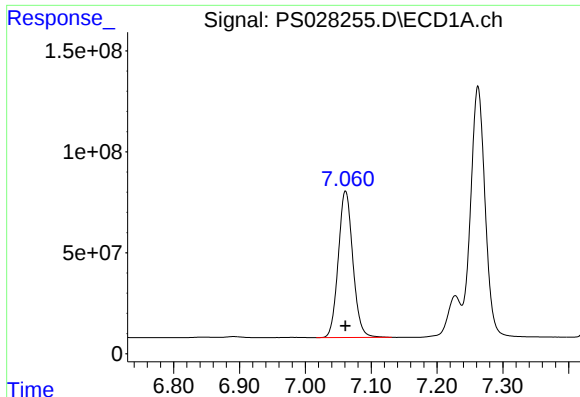


Time Response_ Signal: PS028255.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.715 min
Delta R.T.: 0.000 min
Response: 1761789884
Conc: 697.50 ng/ml

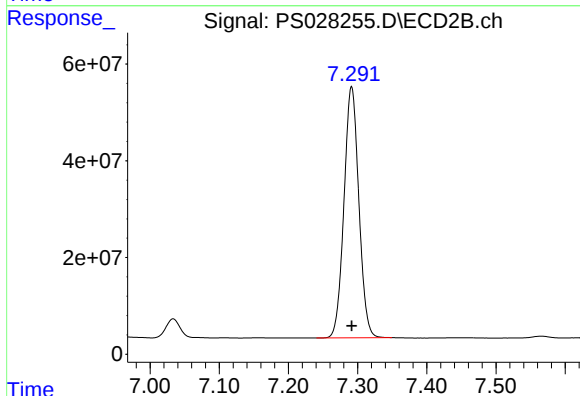




#3 4-Nitrophenol

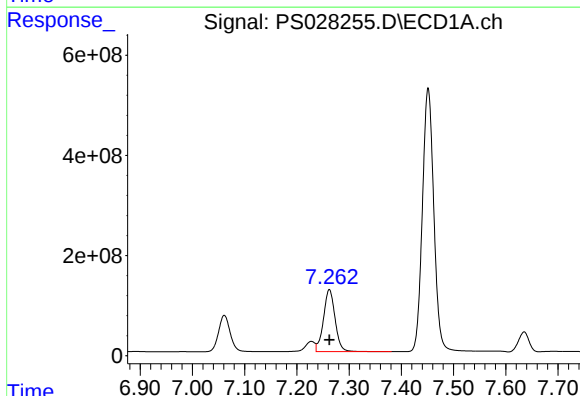
R.T.: 7.061 min
Delta R.T.: 0.000 min
Response: 1114580645
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



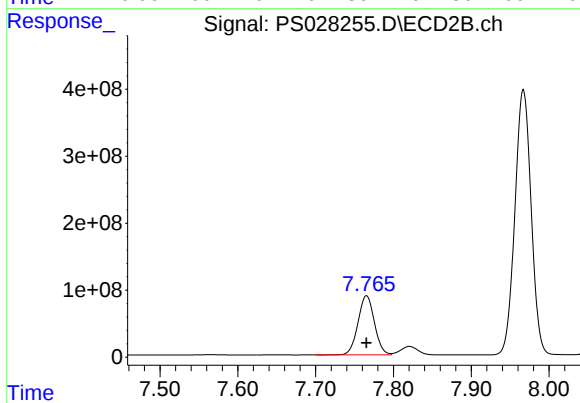
#3 4-Nitrophenol

R.T.: 7.291 min
Delta R.T.: 0.000 min
Response: 774386777
Conc: 682.50 ng/ml



#4 2,4-DCAA

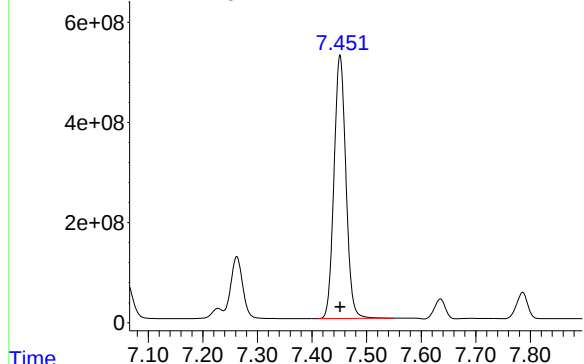
R.T.: 7.262 min
Delta R.T.: 0.000 min
Response: 1909957731
Conc: 750.00 ng/ml



#4 2,4-DCAA

R.T.: 7.765 min
Delta R.T.: 0.000 min
Response: 1298725092
Conc: 750.00 ng/ml

Response_ Signal: PS028255.D\ECD1A.ch

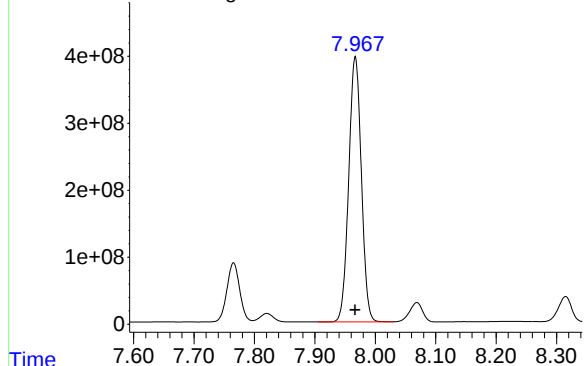


#5 DICAMBA

R.T.: 7.451 min
Delta R.T.: 0.000 min
Response: 7960325238
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

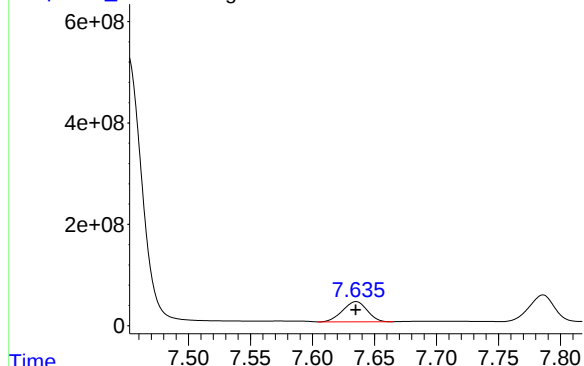
Time Response_ Signal: PS028255.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.967 min
Delta R.T.: 0.000 min
Response: 5749907361
Conc: 705.00 ng/ml

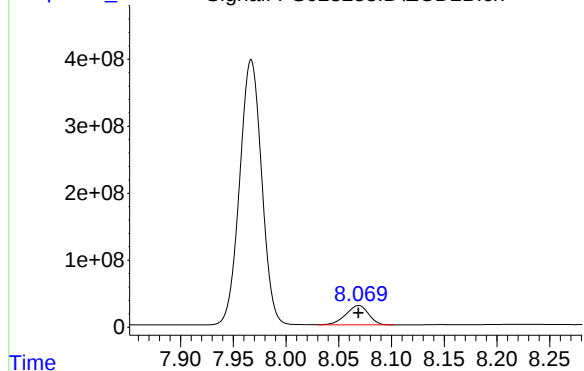
Time Response_ Signal: PS028255.D\ECD1A.ch



#6 MCPP

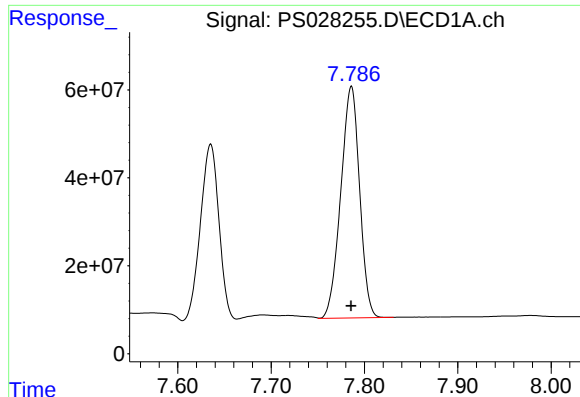
R.T.: 7.635 min
Delta R.T.: 0.000 min
Response: 549886235
Conc: 70.50 ug/ml

Time Response_ Signal: PS028255.D\ECD2B.ch



#6 MCPP

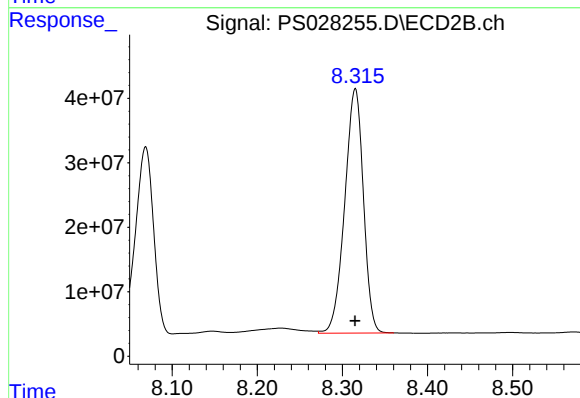
R.T.: 8.069 min
Delta R.T.: 0.000 min
Response: 433130594
Conc: 70.50 ug/ml



#7 MCPA

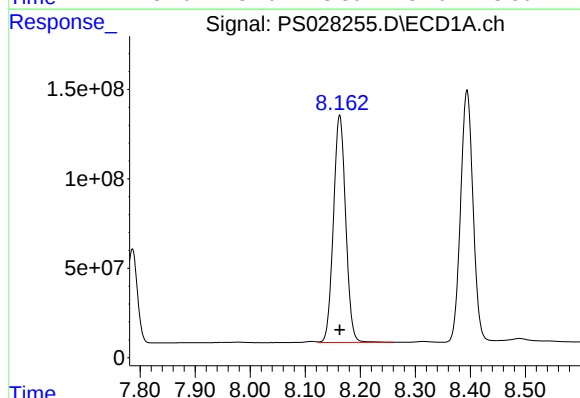
R.T.: 7.786 min
Delta R.T.: 0.000 min
Response: 736853891
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



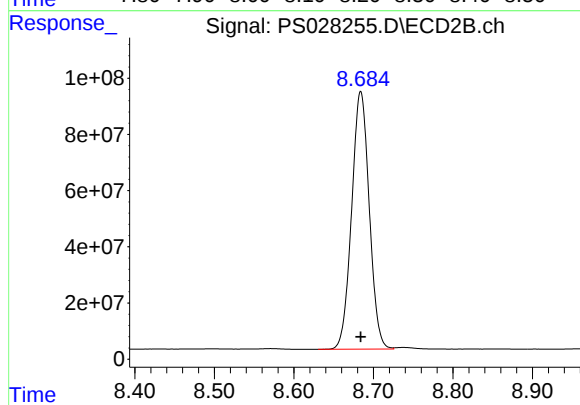
#7 MCPA

R.T.: 8.315 min
Delta R.T.: 0.000 min
Response: 577628626
Conc: 69.75 ug/ml



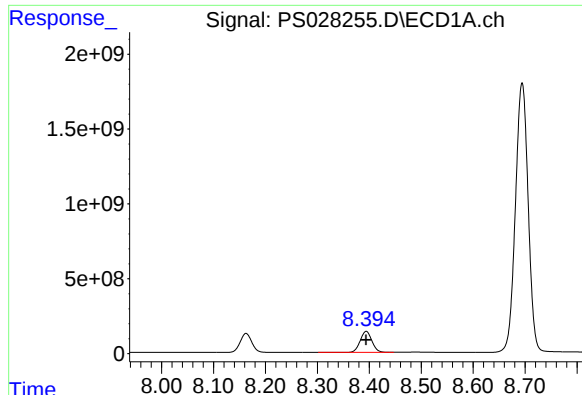
#8 DICHLORPROP

R.T.: 8.163 min
Delta R.T.: 0.000 min
Response: 1962831456
Conc: 705.00 ng/ml



#8 DICHLORPROP

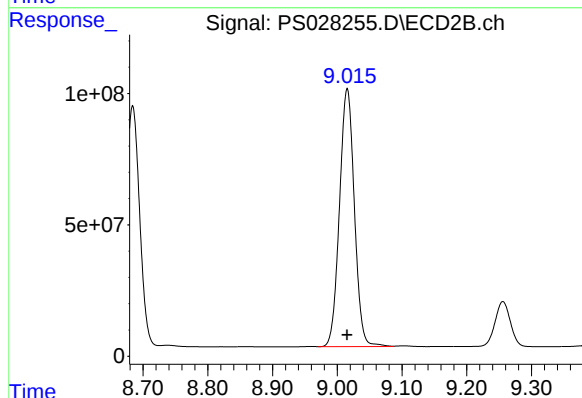
R.T.: 8.684 min
Delta R.T.: 0.000 min
Response: 1411628902
Conc: 705.00 ng/ml



#9 2,4-D

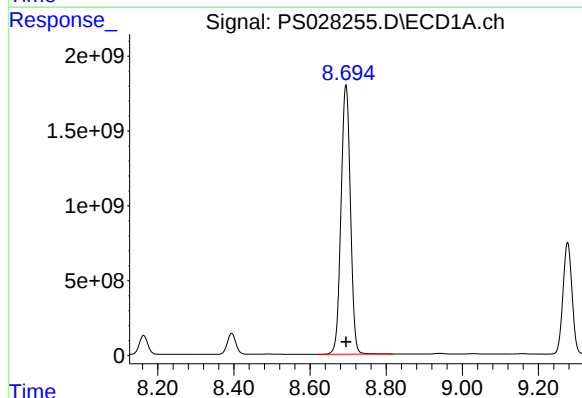
R.T.: 8.394 min
Delta R.T.: 0.000 min
Response: 2202919451
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



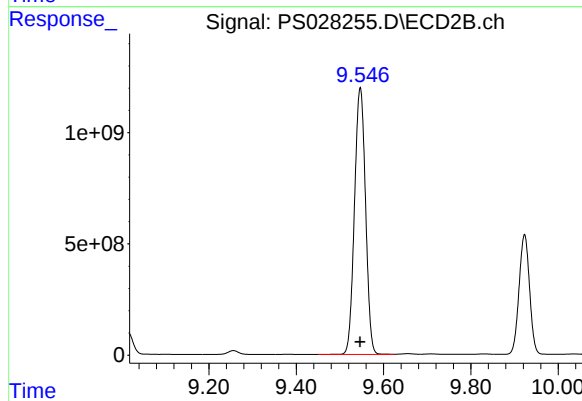
#9 2,4-D

R.T.: 9.015 min
Delta R.T.: 0.000 min
Response: 1569456146
Conc: 705.00 ng/ml



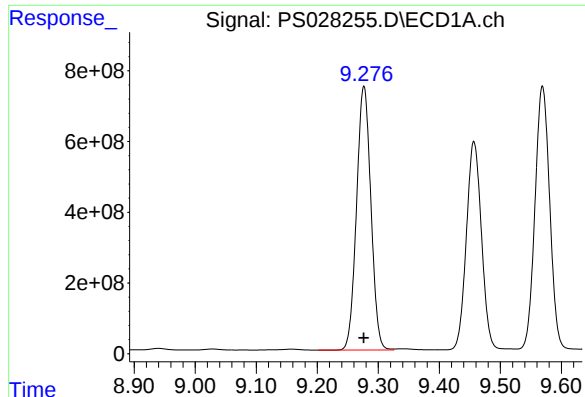
#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: 0.000 min
Response: 30716456668
Conc: 712.50 ng/ml



#10 Pentachlorophenol

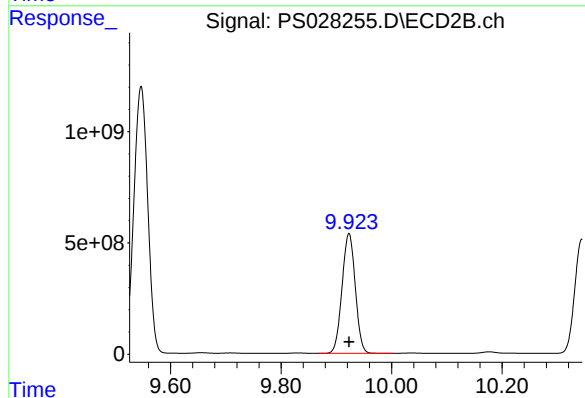
R.T.: 9.547 min
Delta R.T.: 0.000 min
Response: 21052569097
Conc: 712.50 ng/ml



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

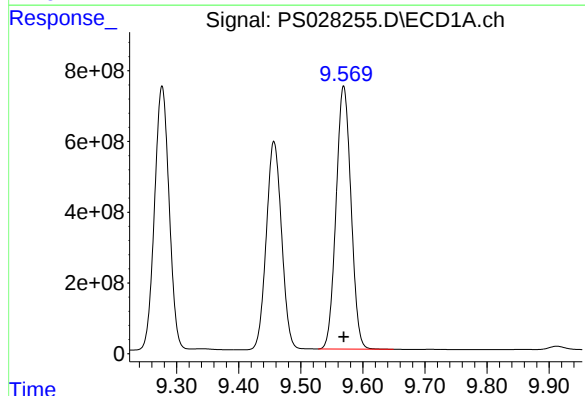
R.T.: 9.277 min
Delta R.T.: 0.000 min
Response: 12163393791
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



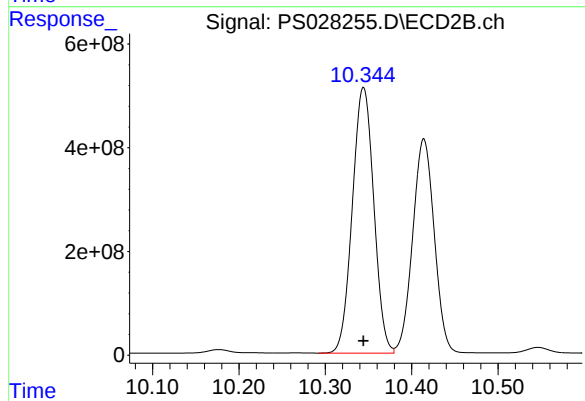
#11 2,4,5-TP (SILVEX)

R.T.: 9.923 min
Delta R.T.: 0.000 min
Response: 8962387585
Conc: 712.50 ng/ml



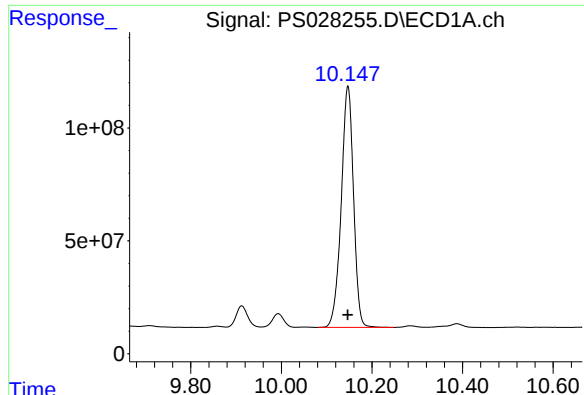
#12 2,4,5-T

R.T.: 9.569 min
Delta R.T.: 0.000 min
Response: 12395763724
Conc: 712.50 ng/ml



#12 2,4,5-T

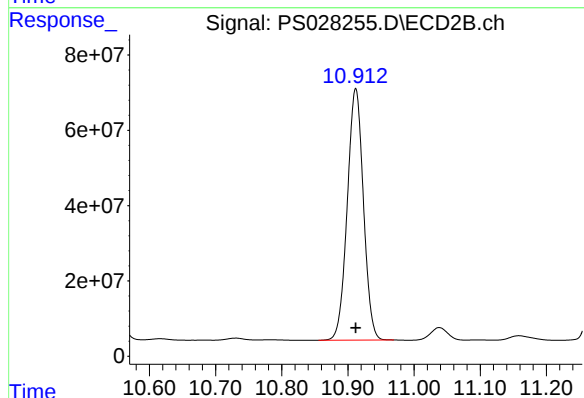
R.T.: 10.344 min
Delta R.T.: 0.000 min
Response: 8839821424
Conc: 712.50 ng/ml



#13 2,4-DB

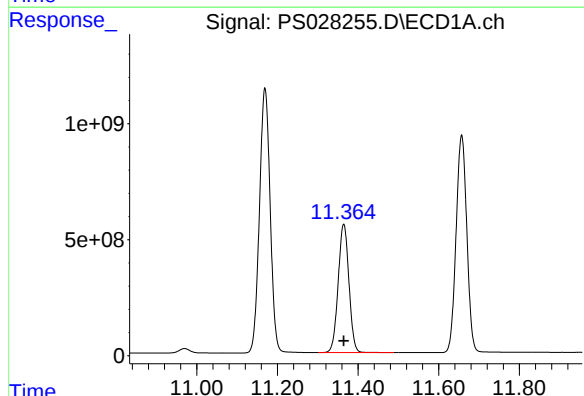
R.T.: 10.147 min
Delta R.T.: 0.000 min
Response: 2012407742
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



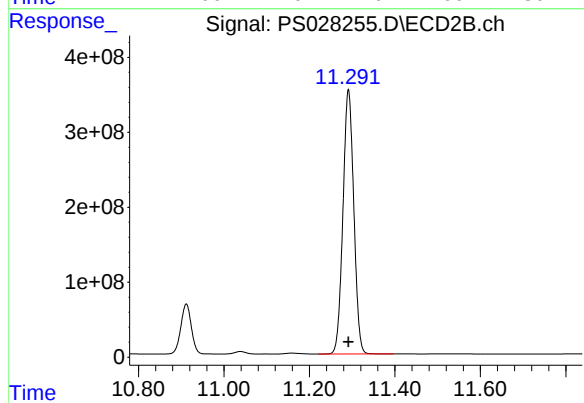
#13 2,4-DB

R.T.: 10.912 min
Delta R.T.: 0.000 min
Response: 1132940966
Conc: 712.50 ng/ml



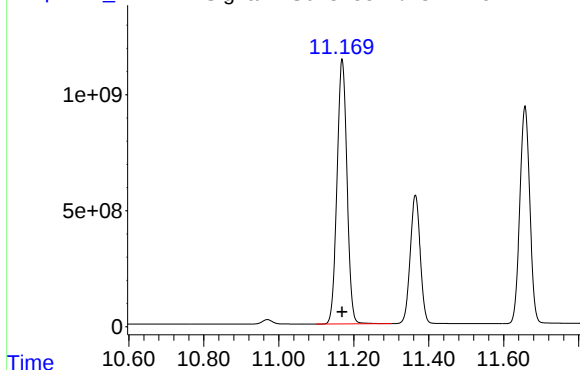
#14 DINOSEB

R.T.: 11.364 min
Delta R.T.: 0.000 min
Response: 10261043129
Conc: 705.00 ng/ml



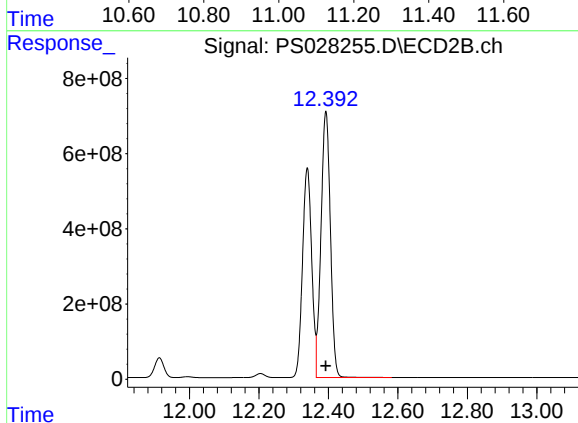
#14 DINOSEB

R.T.: 11.291 min
Delta R.T.: 0.000 min
Response: 6204522057
Conc: 705.00 ng/ml



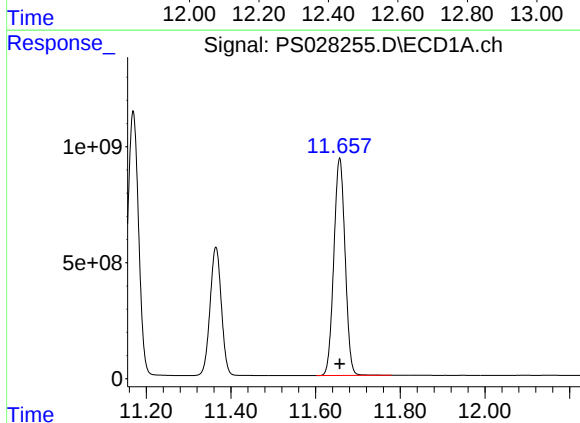
R.T.: 11.169 min
Delta R.T.: 0.000 min
Response: 21022416348
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



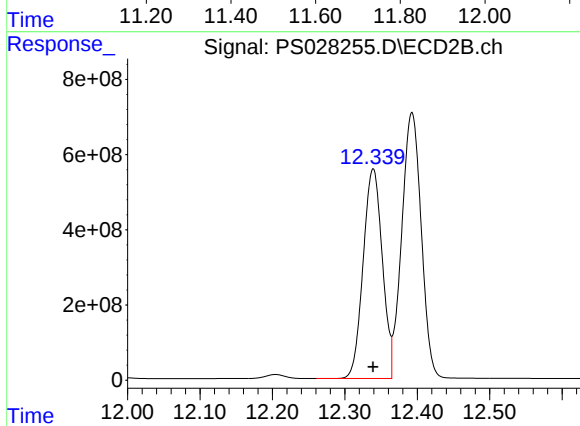
#15 Picloram

R.T.: 12.393 min
Delta R.T.: 0.000 min
Response: 13241974336
Conc: 712.50 ng/ml



#16 DCPA

R.T.: 11.657 min
Delta R.T.: 0.000 min
Response: 17291887789
Conc: 720.00 ng/ml



#16 DCPA

R.T.: 12.339 min
Delta R.T.: 0.000 min
Response: 10255558371
Conc: 720.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028256.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 11:00
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 11:35:07 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:34:58 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	7.262	7.765	2432.1E6	1690.3E6	975.961m	982.122
Target Compounds						
1) T Dalapon	2.654	2.711	3271.7E6	2616.2E6	924.484	897.149
2) T 3,5-DICHL...	6.430	6.716	3320.2E6	2292.0E6	897.791	913.929
3) T 4-Nitroph...	7.061	7.291	1451.5E6	1008.8E6	893.624	894.555
5) T DICAMBA	7.451	7.966	10305.4E6	7545.2E6	920.113	935.276
6) T MCPP	7.637	8.070	737.2E6	575.3E6	95.823	94.645
7) T MCPA	7.788	8.317	972.9E6	759.1E6	93.073	92.311
8) T DICHLORPROP	8.162	8.684	2522.2E6	1845.8E6	909.363	927.122
9) T 2,4-D	8.393	9.015	2832.8E6	2045.3E6	910.203	924.732
10) T Pentachlo...	8.694	9.546	38630.9E6	26793.0E6	905.074	914.400
11) T 2,4,5-TP ...	9.276	9.922	15615.7E6	11582.4E6	920.331	929.499
12) T 2,4,5-T	9.569	10.344	15926.5E6	11412.0E6	921.290	928.908
13) T 2,4-DB	10.147	10.912	2626.1E6	1496.6E6	936.143	948.946
14) T DINOSEB	11.365	11.292	13278.9E6	8073.2E6	920.952	925.804
15) T Picloram	11.169	12.392	27284.2E6	17278.1E6	936.433	944.096
16) T DCPA	11.657	12.339	22197.4E6	13216.4E6	932.863	937.639

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028256.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 11:00
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC1000

Manual Integrations

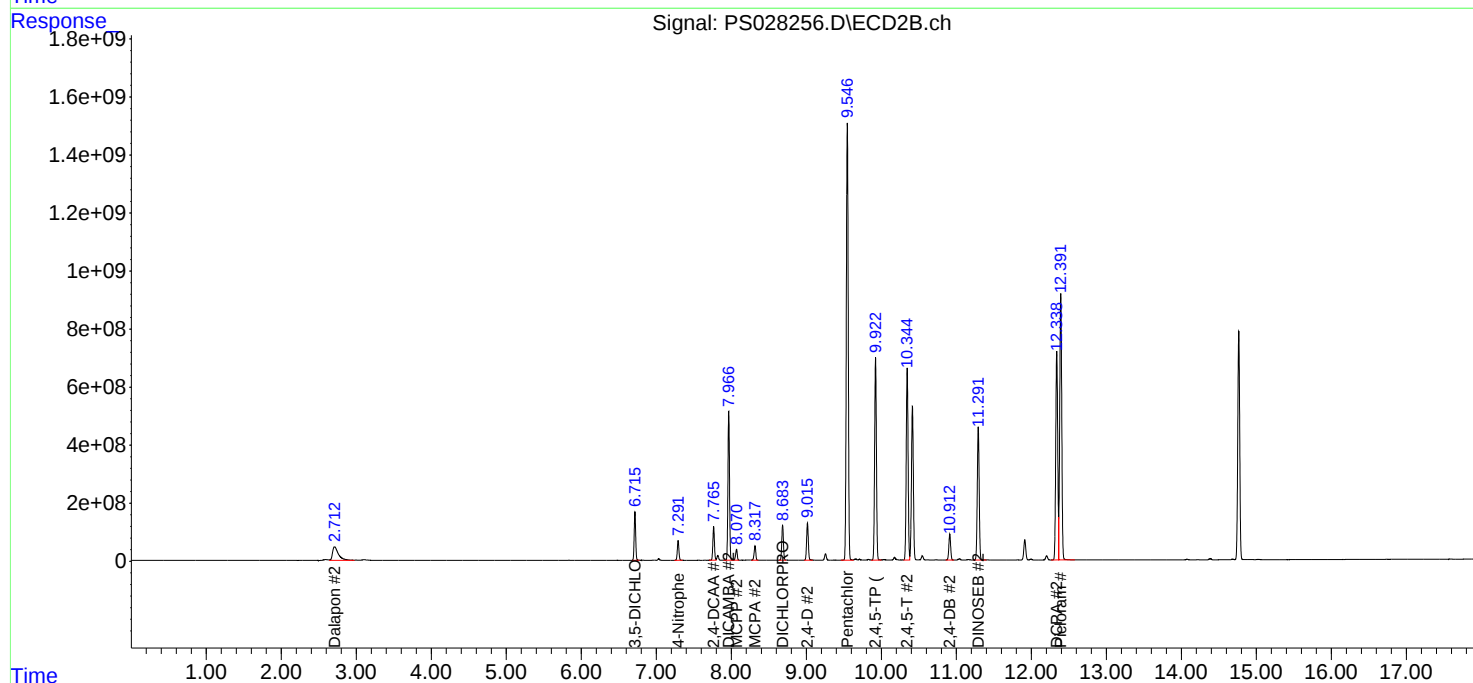
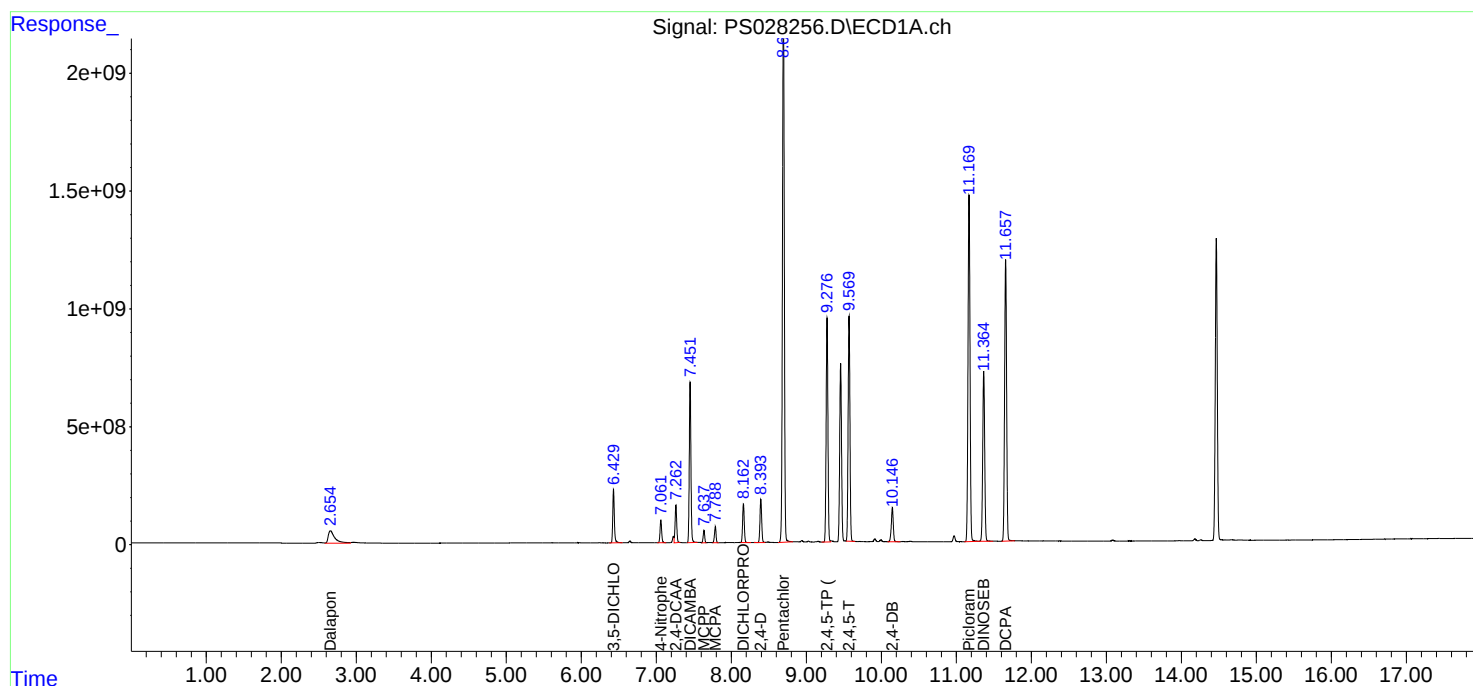
APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 11:35:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:34:58 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: PS028256.D\ECD1A.ch

#1 Dalapon

R.T.: 2.654 min
Delta R.T.: 0.000 min
Response: 3271696205
Conc: 924.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time

Response_ Signal: PS028256.D\ECD2B.ch

#1 Dalapon

R.T.: 2.711 min
Delta R.T.: 0.000 min
Response: 2616195166
Conc: 897.15 ng/ml

Time

Response_ Signal: PS028256.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.430 min
Delta R.T.: 0.000 min
Response: 3320196395
Conc: 897.79 ng/ml

Time

Response_ Signal: PS028256.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.716 min
Delta R.T.: 0.000 min
Response: 2292021581
Conc: 913.93 ng/ml

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

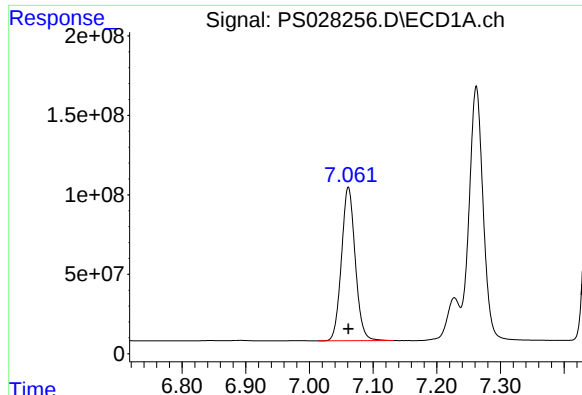
Time

Response_ Signal: PS028256.D\ECD1A.ch

Time

Response_ Signal: PS028256.D\ECD2B.ch

Time



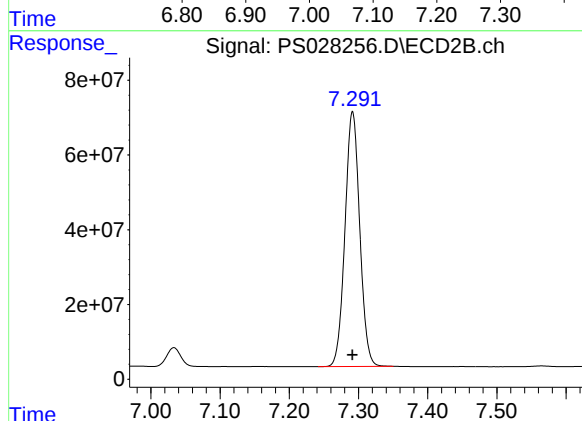
#3 4-Nitrophenol

R.T.: 7.061 min
Delta R.T.: 0.000 min
Response: 1451485119
Conc: 893.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

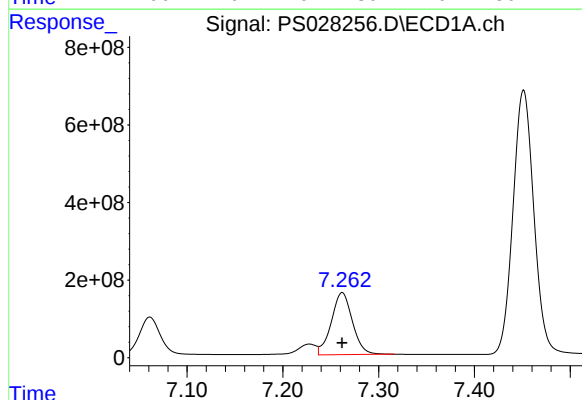
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



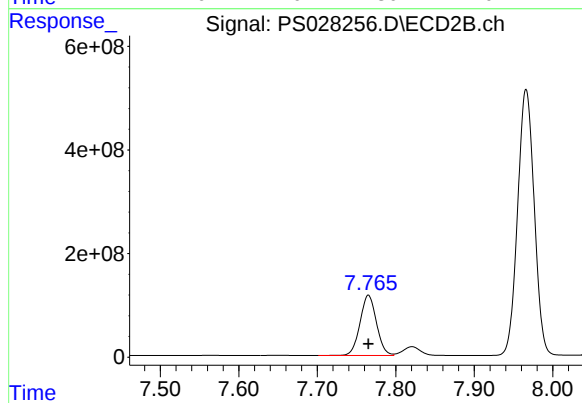
#3 4-Nitrophenol

R.T.: 7.291 min
Delta R.T.: 0.000 min
Response: 1008760627
Conc: 894.56 ng/ml



#4 2,4-DCAA

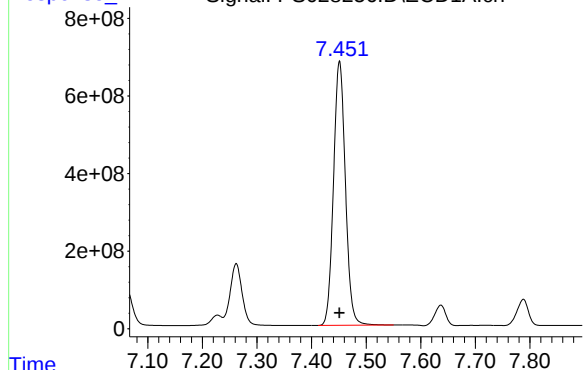
R.T.: 7.262 min
Delta R.T.: 0.000 min
Response: 2432093967
Conc: 975.96 ng/ml m



#4 2,4-DCAA

R.T.: 7.765 min
Delta R.T.: 0.000 min
Response: 1690270766
Conc: 982.12 ng/ml

Response_ Signal: PS028256.D\ECD1A.ch



#5 DICAMBA

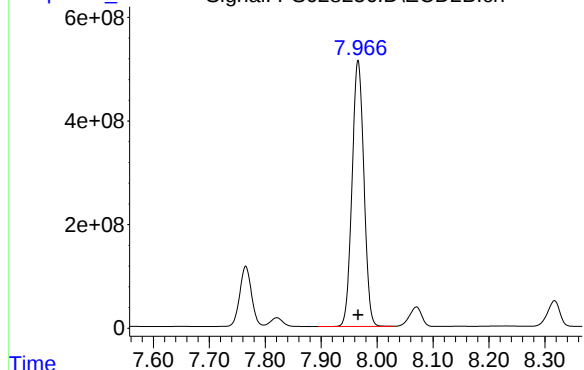
R.T.: 7.451 min
Delta R.T.: 0.000 min
Response: 10305445870
Conc: 920.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

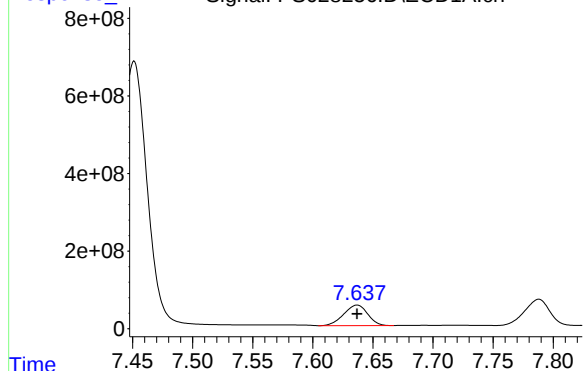
Response_ Signal: PS028256.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.966 min
Delta R.T.: 0.000 min
Response: 7545226353
Conc: 935.28 ng/ml

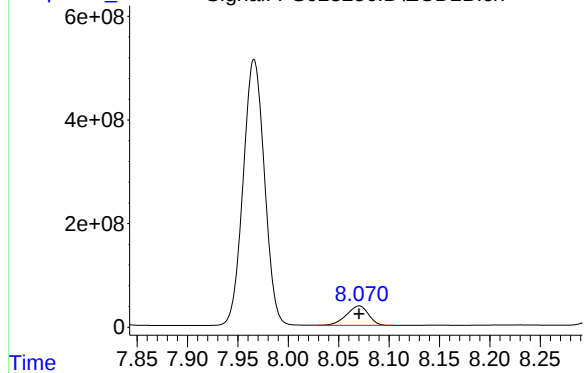
Response_ Signal: PS028256.D\ECD1A.ch



#6 MCP

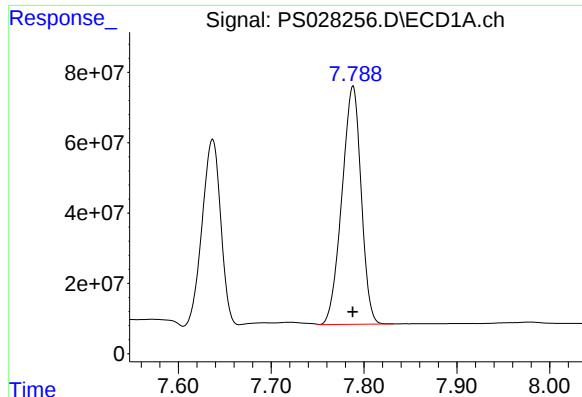
R.T.: 7.637 min
Delta R.T.: 0.000 min
Response: 737181829
Conc: 95.82 ug/ml

Response_ Signal: PS028256.D\ECD2B.ch



#6 MCP

R.T.: 8.070 min
Delta R.T.: 0.000 min
Response: 575332150
Conc: 94.65 ug/ml



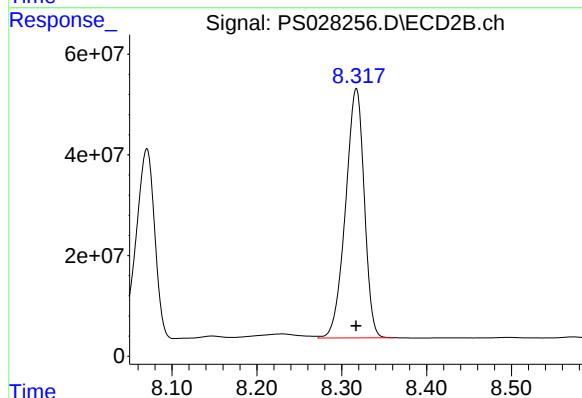
#7 MCPA

R.T.: 7.788 min
Delta R.T.: 0.000 min
Response: 972913862
Conc: 93.07 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

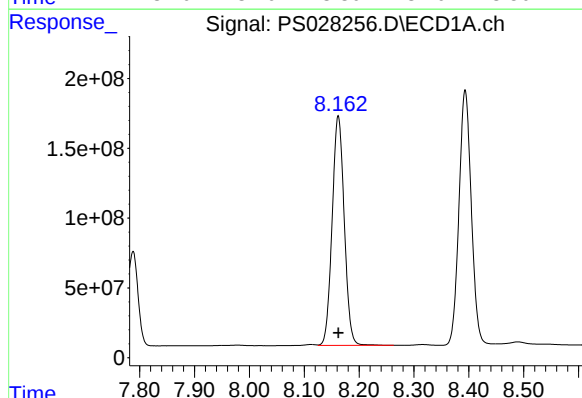
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



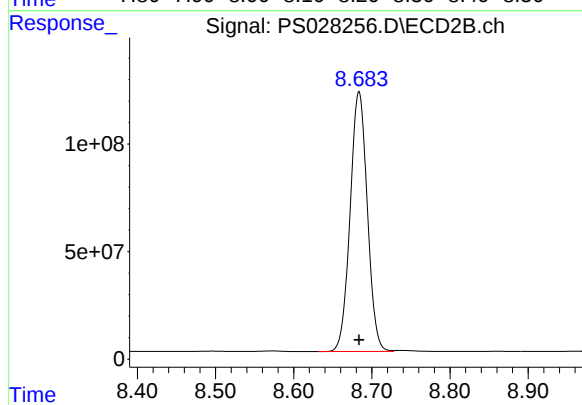
#7 MCPA

R.T.: 8.317 min
Delta R.T.: 0.000 min
Response: 759084985
Conc: 92.31 ug/ml



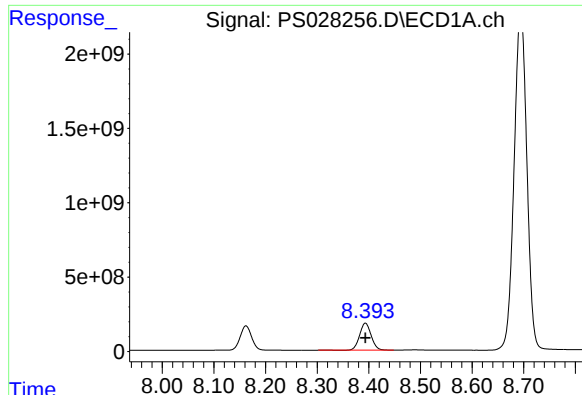
#8 DICHLORPROP

R.T.: 8.162 min
Delta R.T.: 0.000 min
Response: 2522197571
Conc: 909.36 ng/ml



#8 DICHLORPROP

R.T.: 8.684 min
Delta R.T.: 0.000 min
Response: 1845813291
Conc: 927.12 ng/ml



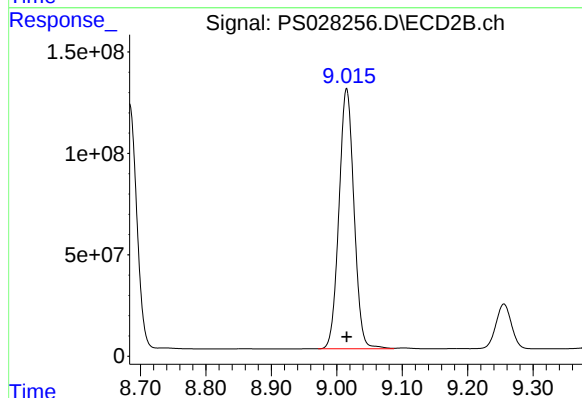
#9 2,4-D

R.T.: 8.393 min
Delta R.T.: 0.000 min
Response: 2832756845
Conc: 910.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

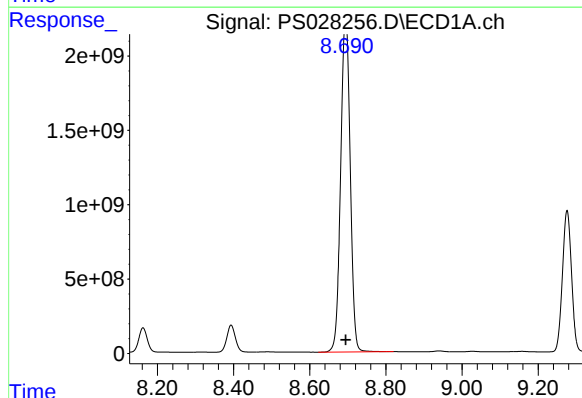
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



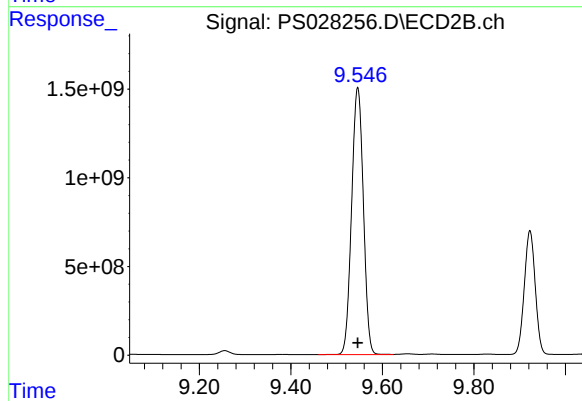
#9 2,4-D

R.T.: 9.015 min
Delta R.T.: 0.000 min
Response: 2045272116
Conc: 924.73 ng/ml



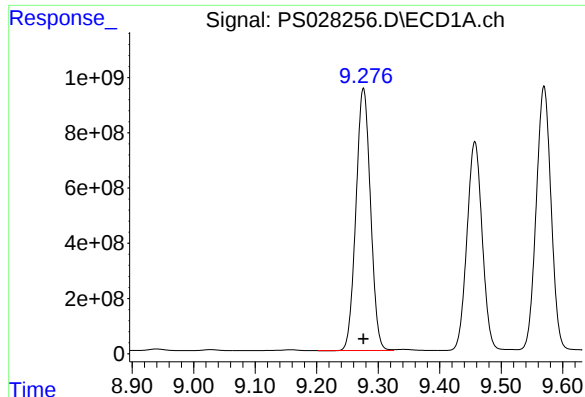
#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: 0.000 min
Response: 38630863608
Conc: 905.07 ng/ml



#10 Pentachlorophenol

R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 26793014437
Conc: 914.40 ng/ml



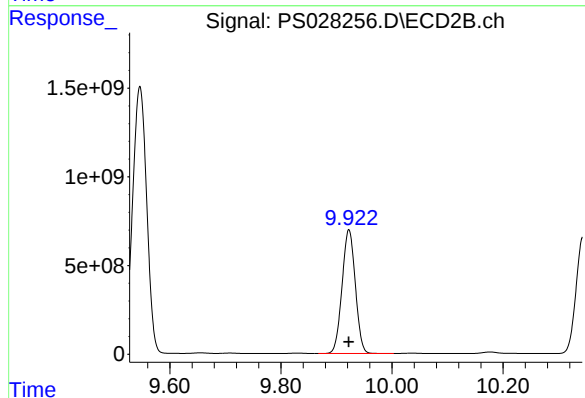
#11 2,4,5-TP (SILVEX)

R.T.: 9.276 min
Delta R.T.: 0.000 min
Response: 15615673102
Conc: 920.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

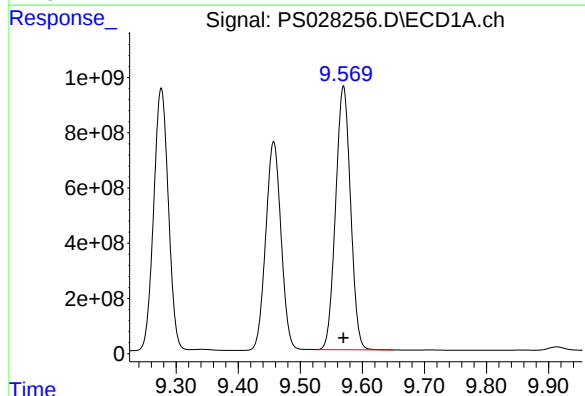
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



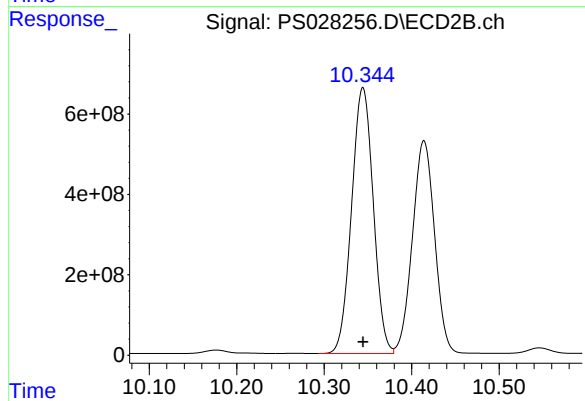
#11 2,4,5-TP (SILVEX)

R.T.: 9.922 min
Delta R.T.: 0.000 min
Response: 11582440713
Conc: 929.50 ng/ml



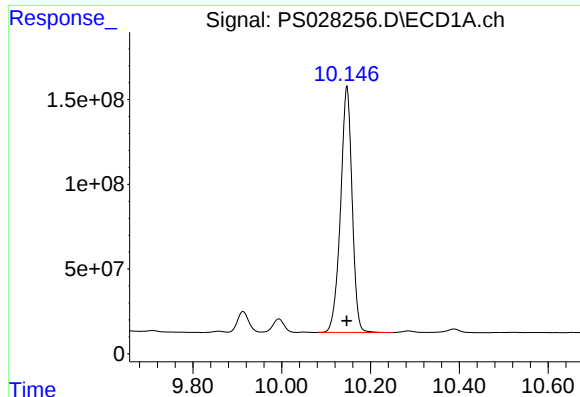
#12 2,4,5-T

R.T.: 9.569 min
Delta R.T.: 0.000 min
Response: 15926470083
Conc: 921.29 ng/ml



#12 2,4,5-T

R.T.: 10.344 min
Delta R.T.: 0.000 min
Response: 11411956993
Conc: 928.91 ng/ml



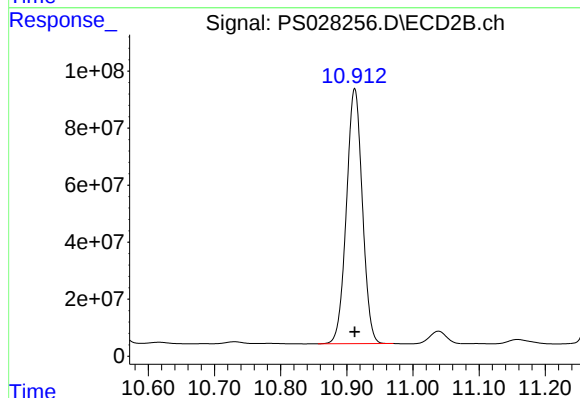
#13 2,4-DB

R.T.: 10.147 min
Delta R.T.: 0.000 min
Response: 2626136984
Conc: 936.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

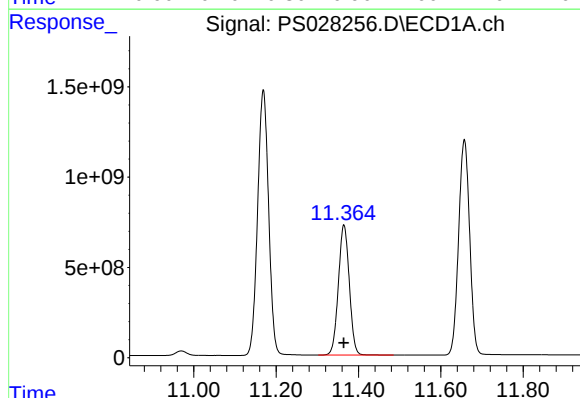
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



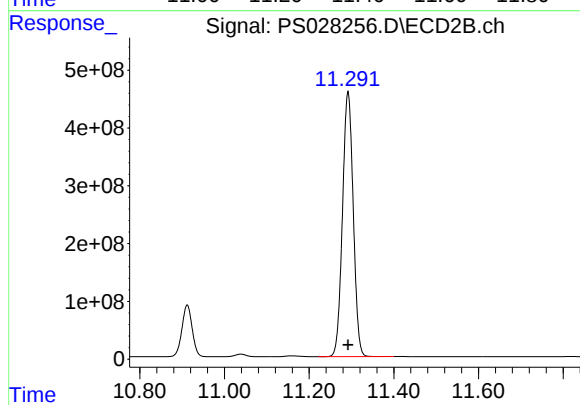
#13 2,4-DB

R.T.: 10.912 min
Delta R.T.: 0.000 min
Response: 1496588795
Conc: 948.95 ng/ml



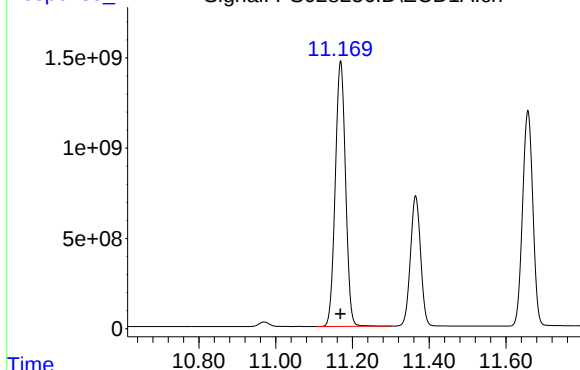
#14 DINOSEB

R.T.: 11.365 min
Delta R.T.: 0.000 min
Response: 13278908779
Conc: 920.95 ng/ml



#14 DINOSEB

R.T.: 11.292 min
Delta R.T.: 0.000 min
Response: 8073223240
Conc: 925.80 ng/ml



R.T.: 11.169 min
Delta R.T.: 0.000 min
Response: 27284170333
Conc: 936.43 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

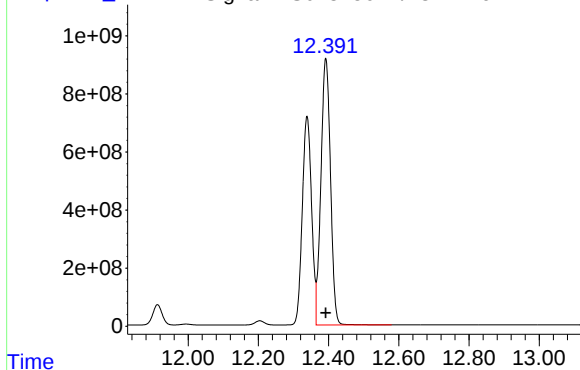
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time

Response_

Signal: PS028256.D\ECD2B.ch

#15 Picloram



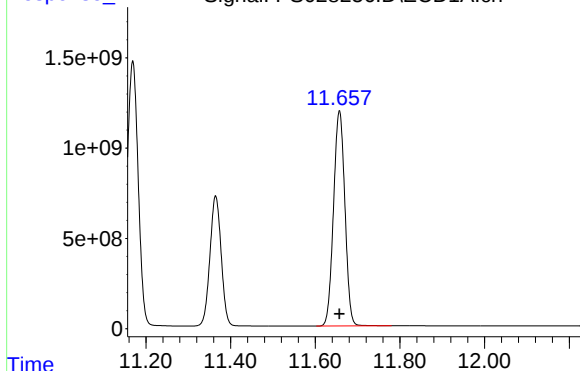
R.T.: 12.392 min
Delta R.T.: 0.000 min
Response: 17278066085
Conc: 944.10 ng/ml

Time

Response_

Signal: PS028256.D\ECD1A.ch

#16 DCPA



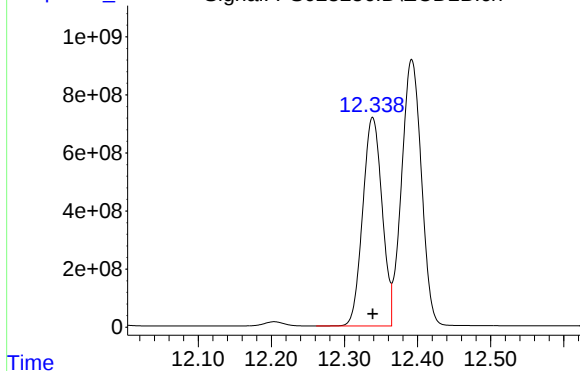
R.T.: 11.657 min
Delta R.T.: 0.000 min
Response: 22197383787
Conc: 932.86 ng/ml

Time

Response_

Signal: PS028256.D\ECD2B.ch

#16 DCPA



R.T.: 12.339 min
Delta R.T.: 0.000 min
Response: 13216402284
Conc: 937.64 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028257.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 11:24
 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 06 11:47:23 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:47:11 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	7.263	7.765	3578.7E6	2534.7E6	1397.159	1455.253
Target Compounds						
1) T Dalapon	2.654	2.710	4981.8E6	3925.2E6	1399.712	1333.953
2) T 3,5-DICHL...	6.430	6.716	4846.4E6	3424.5E6	1292.795	1353.090
3) T 4-Nitroph...	7.062	7.292	2179.8E6	1521.9E6	1323.022	1328.039
5) T DICAMBA	7.452	7.967	15172.0E6	11276.2E6	1351.202	1403.807
6) T MCPP	7.641	8.074	1146.8E6	885.2E6	151.249	145.801
7) T MCPA	7.793	8.322	1484.1E6	1151.7E6	142.554	138.113
8) T DICHLORPROP	8.163	8.684	3704.4E6	2778.9E6	1313.961	1383.038
9) T 2,4-D	8.394	9.015	4151.5E6	3055.9E6	1315.396	1370.262
10) T Pentachlo...	8.696	9.546	47081.5E6	37948.1E6	1132.782	1301.165
11) T 2,4,5-TP ...	9.276	9.922	22578.3E6	16928.6E6	1326.135	1360.521
12) T 2,4,5-T	9.570	10.344	23100.9E6	16657.6E6	1332.578	1357.941
13) T 2,4-DB	10.147	10.912	3937.4E6	2277.8E6	1393.030	1437.213
14) T DINOSEB	11.364	11.291	19623.9E6	11997.1E6	1357.212	1375.556
15) T Picloram	11.169	12.392	40302.3E6	25436.4E6	1389.789	1410.611
16) T DCPA	11.657	12.339	32077.6E6	19195.1E6	1350.108	1370.053

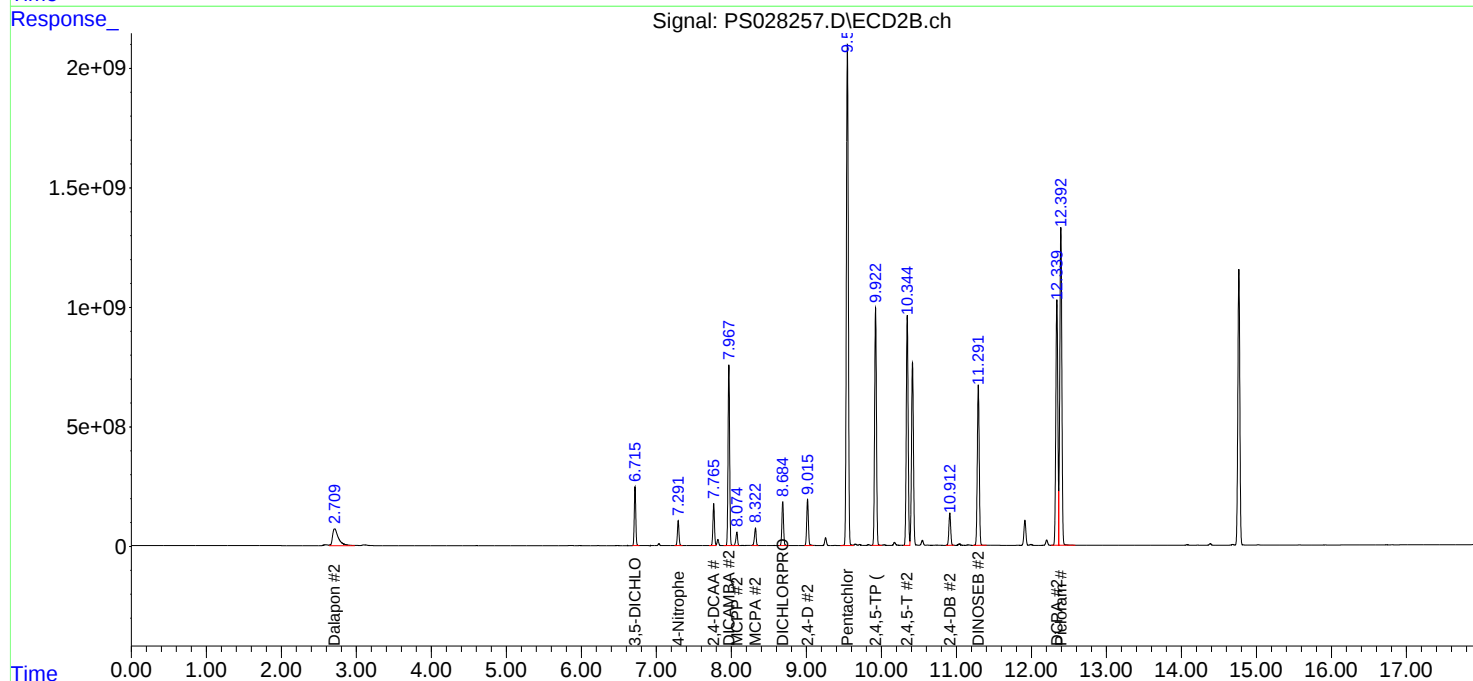
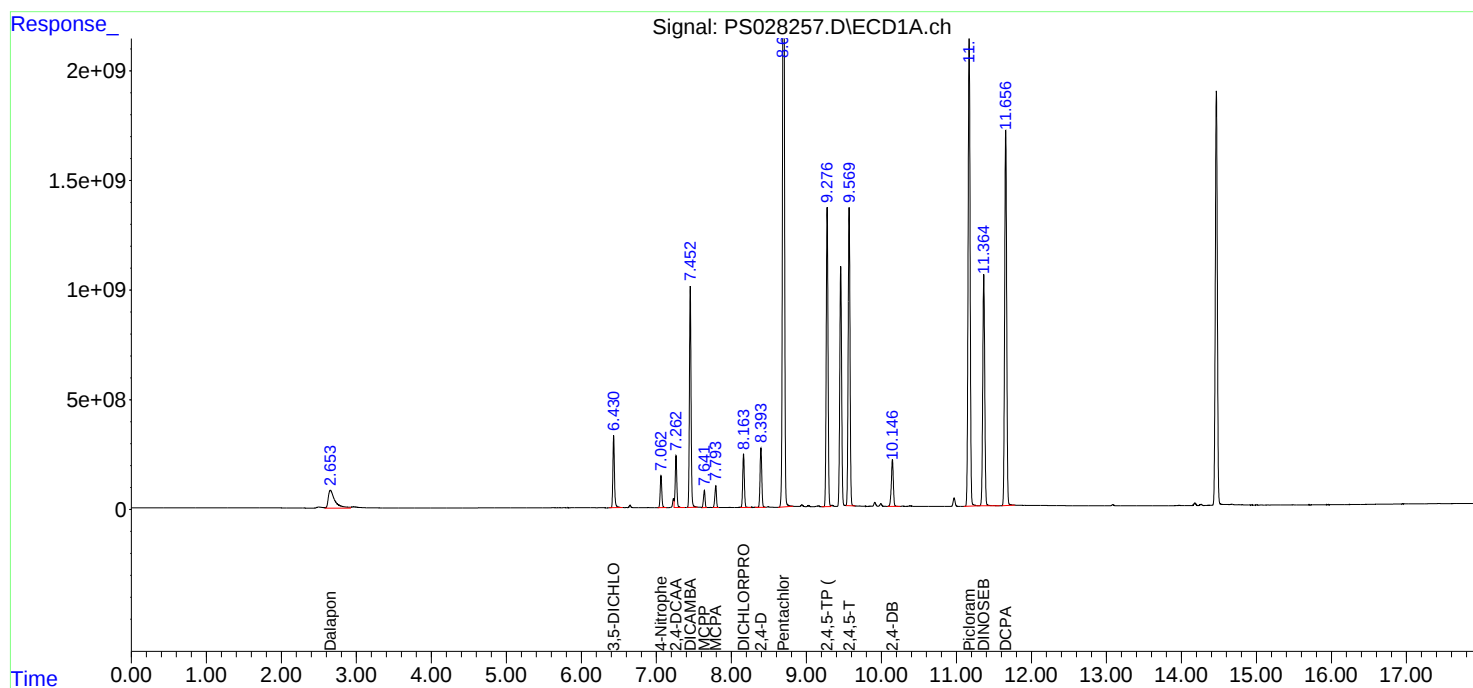
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

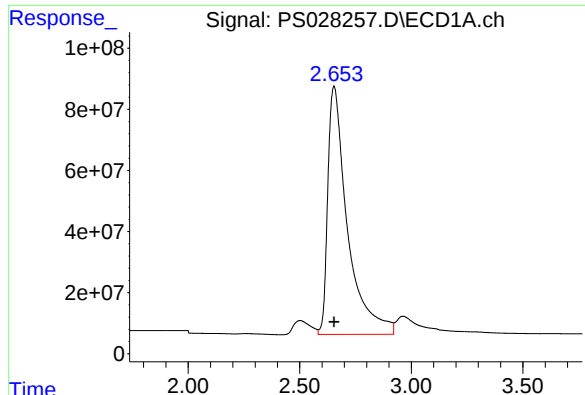
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028257.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 11:24
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 11:47:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:47:11 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

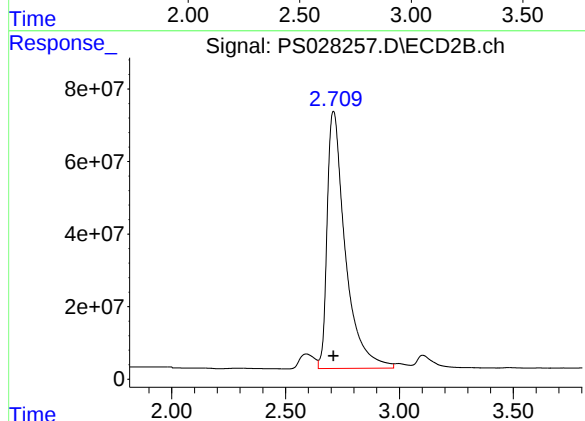




#1 Dalapon

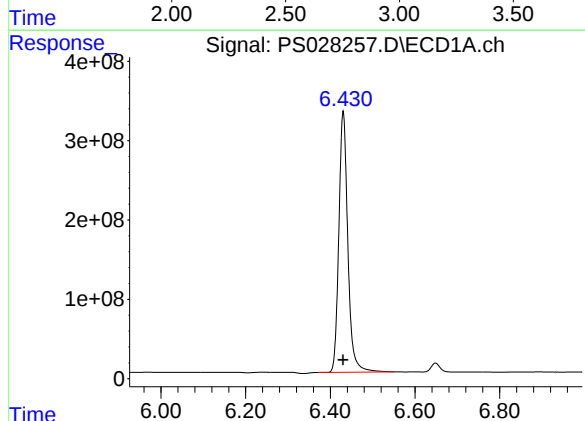
R.T.: 2.654 min
Delta R.T.: 0.000 min
Response: 4981844193
Conc: 1399.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



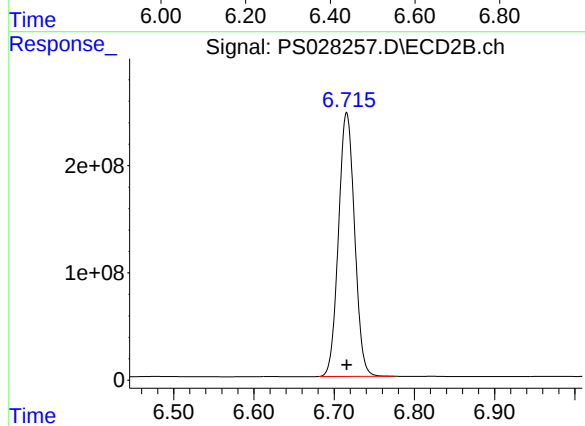
#1 Dalapon

R.T.: 2.710 min
Delta R.T.: 0.000 min
Response: 3925150144
Conc: 1333.95 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.430 min
Delta R.T.: 0.000 min
Response: 4846401815
Conc: 1292.79 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

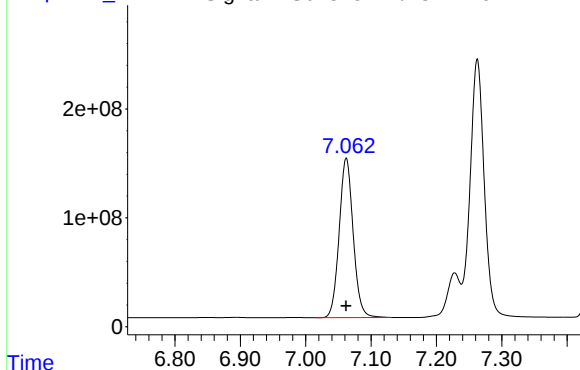
R.T.: 6.716 min
Delta R.T.: 0.000 min
Response: 3424545098
Conc: 1353.09 ng/ml

Response_

Signal: PS028257.D\ECD1A.ch

#3 4-Nitrophenol

ICAL Form



R.T.: 7.062 min
Delta R.T.: 0.000 min
Response: 2179767492
Conc: 1323.02 ng/ml

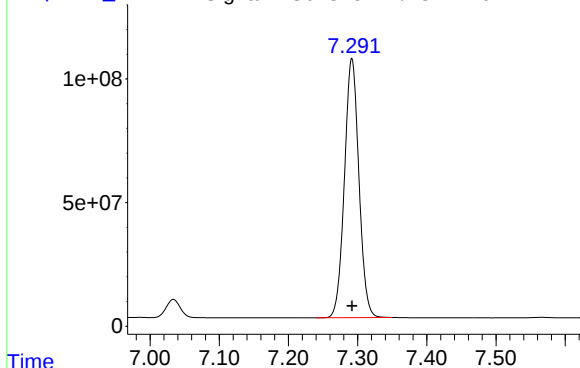
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Time

Response_

Signal: PS028257.D\ECD2B.ch

#3 4-Nitrophenol



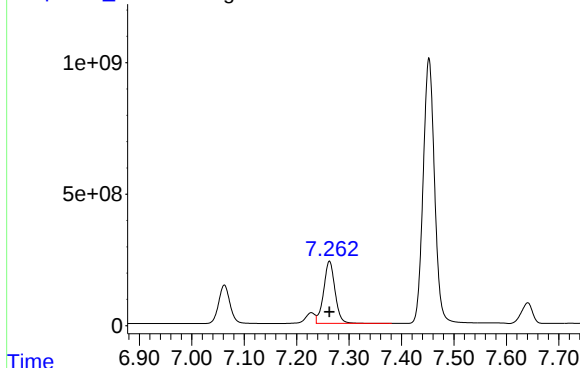
R.T.: 7.292 min
Delta R.T.: 0.000 min
Response: 1521860603
Conc: 1328.04 ng/ml

Time

Response_

Signal: PS028257.D\ECD1A.ch

#4 2,4-DCAA



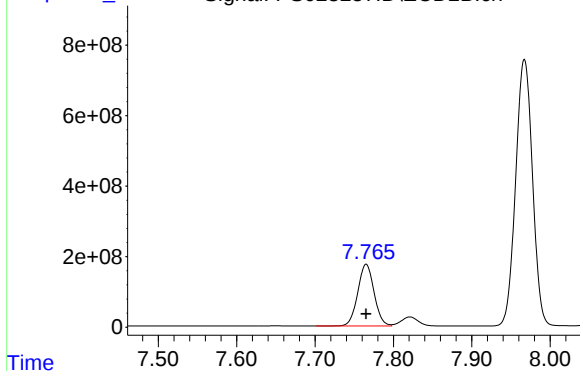
R.T.: 7.263 min
Delta R.T.: 0.000 min
Response: 3578703087
Conc: 1397.16 ng/ml

Time

Response_

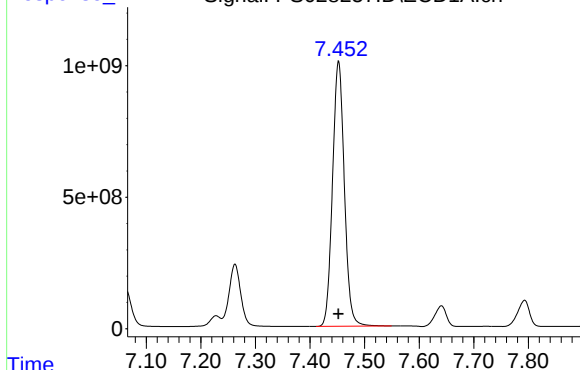
Signal: PS028257.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.765 min
Delta R.T.: 0.000 min
Response: 2534730333
Conc: 1455.25 ng/ml

Time

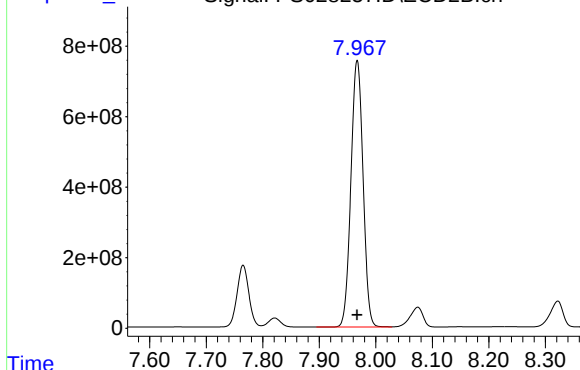


R.T.: 7.452 min
Delta R.T.: 0.000 min
Response: 15172024677
Conc: 1351.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Time Response_ Signal: PS028257.D\ECD2B.ch

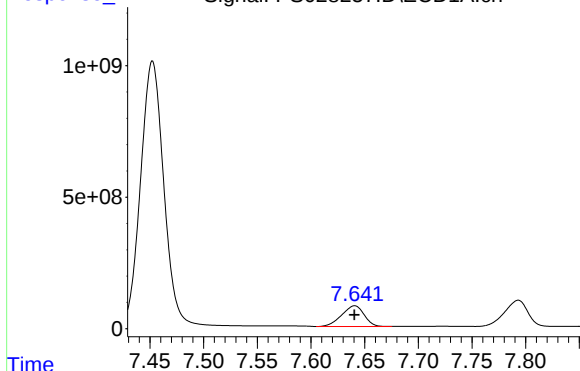
#5 DICAMBA



R.T.: 7.967 min
Delta R.T.: 0.000 min
Response: 11276170560
Conc: 1403.81 ng/ml

Time Response_ Signal: PS028257.D\ECD1A.ch

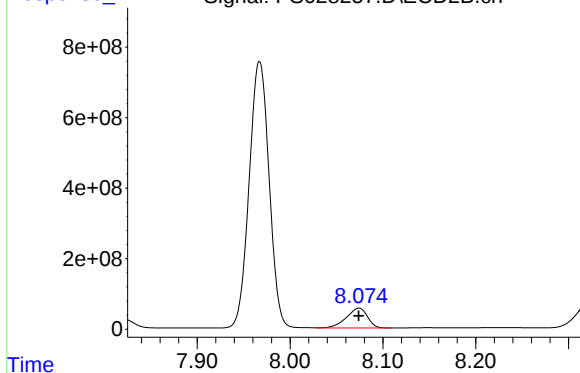
#6 MCPP



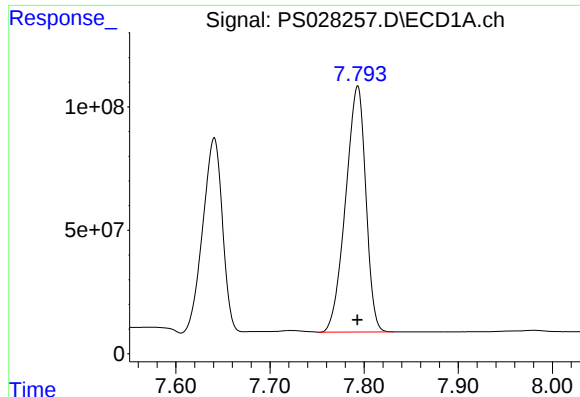
R.T.: 7.641 min
Delta R.T.: 0.000 min
Response: 1146849642
Conc: 151.25 ug/ml

Time Response_ Signal: PS028257.D\ECD2B.ch

#6 MCPP



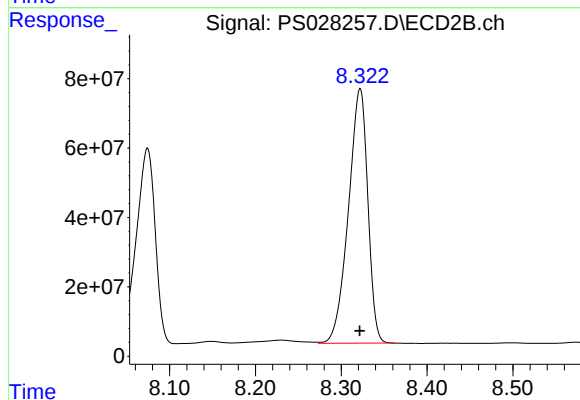
R.T.: 8.074 min
Delta R.T.: 0.000 min
Response: 885195032
Conc: 145.80 ug/ml



#7 MCPA

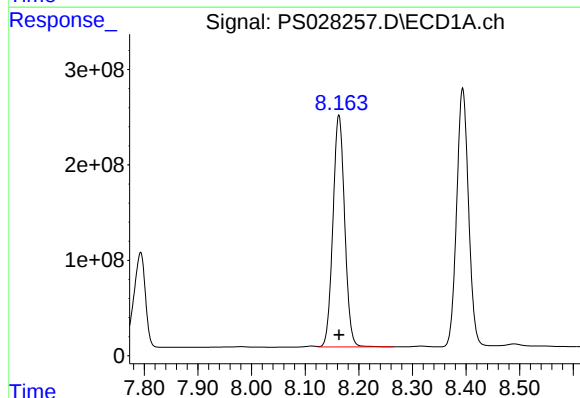
R.T.: 7.793 min
Delta R.T.: 0.000 min
Response: 1484149128
Conc: 142.55 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



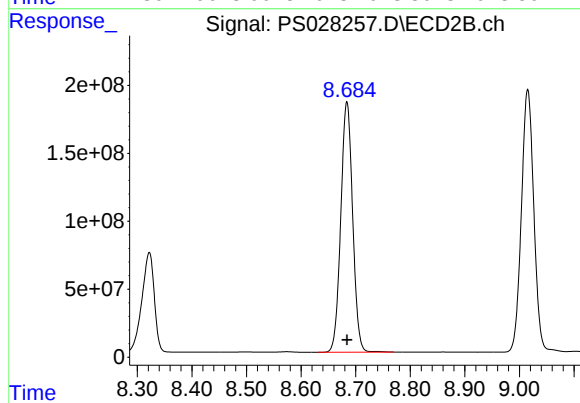
#7 MCPA

R.T.: 8.322 min
Delta R.T.: 0.000 min
Response: 1151673451
Conc: 138.11 ug/ml



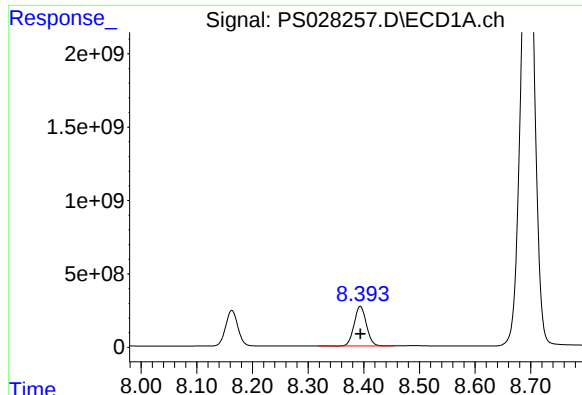
#8 DICHLORPROP

R.T.: 8.163 min
Delta R.T.: 0.000 min
Response: 3704424187
Conc: 1313.96 ng/ml



#8 DICHLORPROP

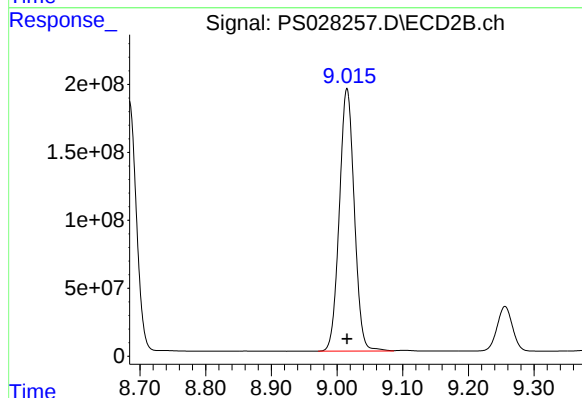
R.T.: 8.684 min
Delta R.T.: 0.000 min
Response: 2778858399
Conc: 1383.04 ng/ml



#9 2,4-D

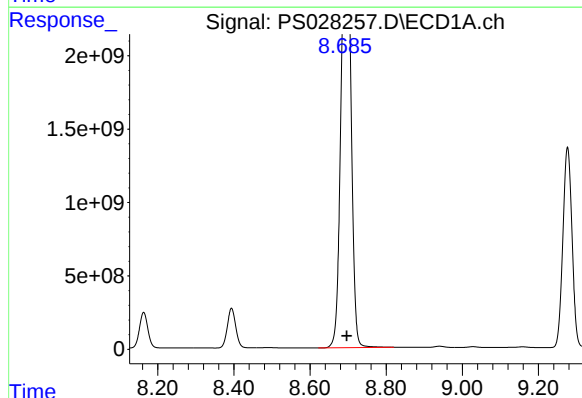
R.T.: 8.394 min
Delta R.T.: 0.000 min
Response: 4151533449
Conc: 1315.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



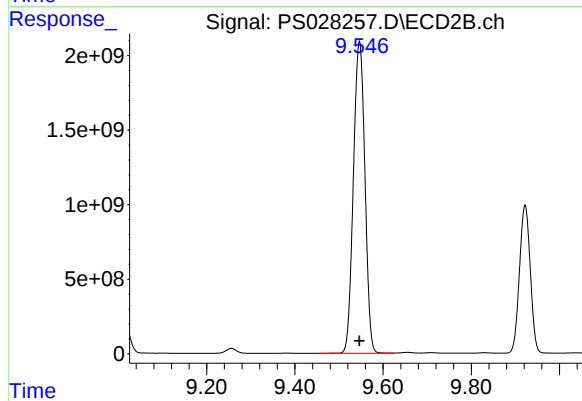
#9 2,4-D

R.T.: 9.015 min
Delta R.T.: 0.000 min
Response: 3055874957
Conc: 1370.26 ng/ml



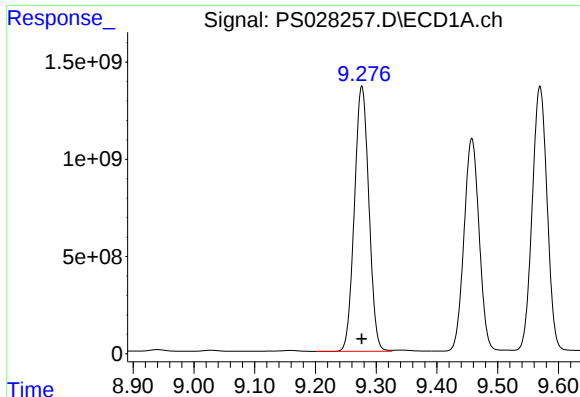
#10 Pentachlorophenol

R.T.: 8.696 min
Delta R.T.: 0.000 min
Response: 47081461391
Conc: 1132.78 ng/ml



#10 Pentachlorophenol

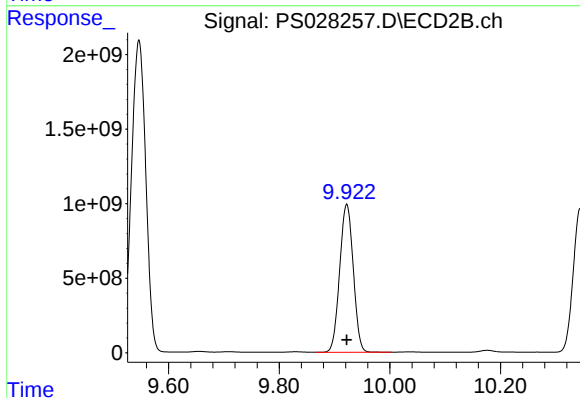
R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 37948055385
Conc: 1301.16 ng/ml



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

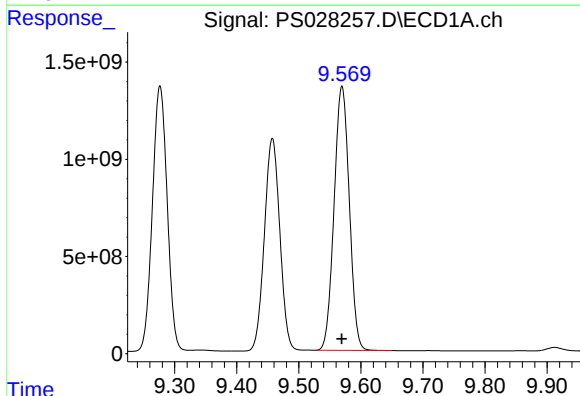
R.T.: 9.276 min
Delta R.T.: 0.000 min
Response: 22578281267
Conc: 1326.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



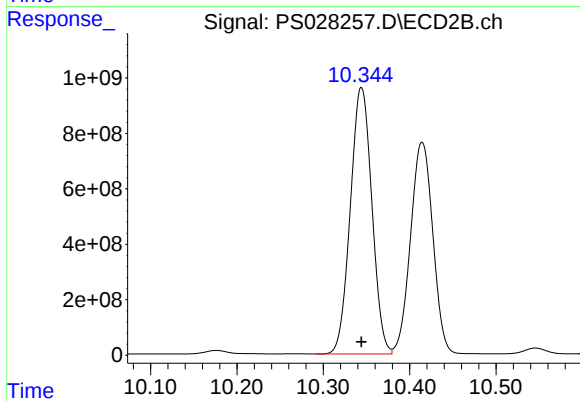
#11 2,4,5-TP (SILVEX)

R.T.: 9.922 min
Delta R.T.: 0.000 min
Response: 16928552391
Conc: 1360.52 ng/ml



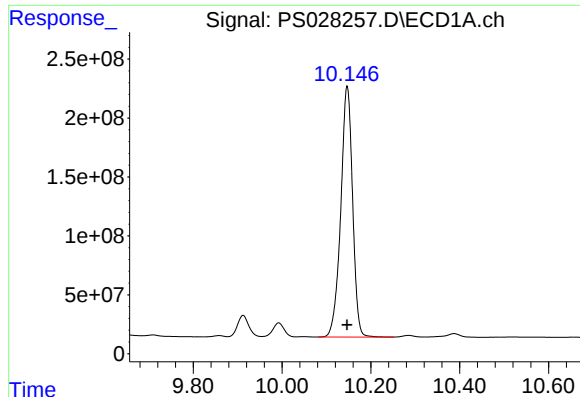
#12 2,4,5-T

R.T.: 9.570 min
Delta R.T.: 0.000 min
Response: 23100928914
Conc: 1332.58 ng/ml



#12 2,4,5-T

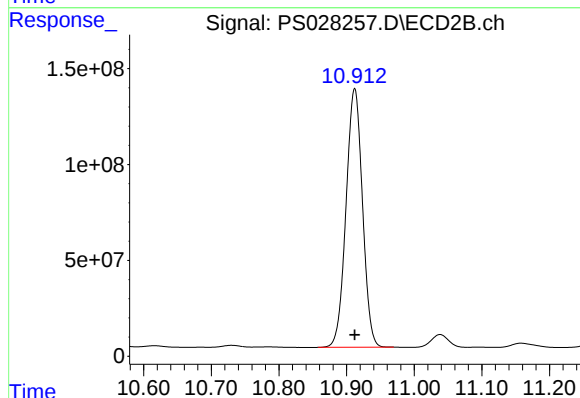
R.T.: 10.344 min
Delta R.T.: 0.000 min
Response: 16657568418
Conc: 1357.94 ng/ml



#13 2,4-DB

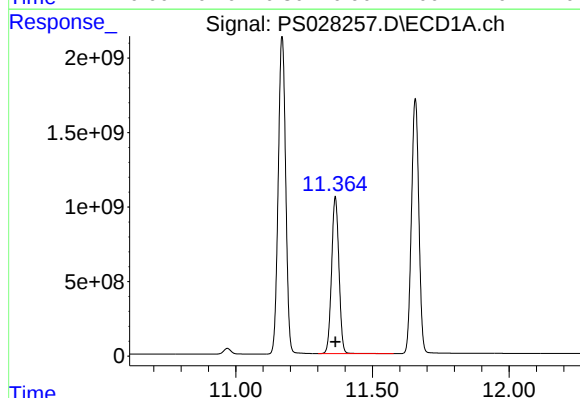
R.T.: 10.147 min
Delta R.T.: 0.000 min
Response: 3937445876
Conc: 1393.03 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



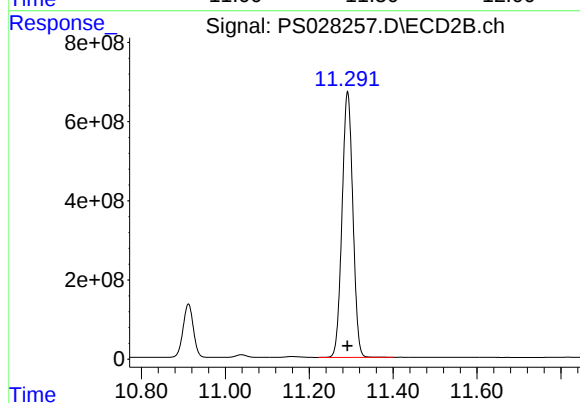
#13 2,4-DB

R.T.: 10.912 min
Delta R.T.: 0.000 min
Response: 2277836917
Conc: 1437.21 ng/ml



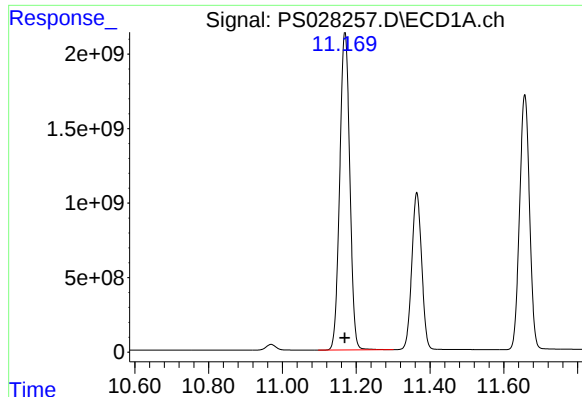
#14 DINOSEB

R.T.: 11.364 min
Delta R.T.: 0.000 min
Response: 19623893929
Conc: 1357.21 ng/ml



#14 DINOSEB

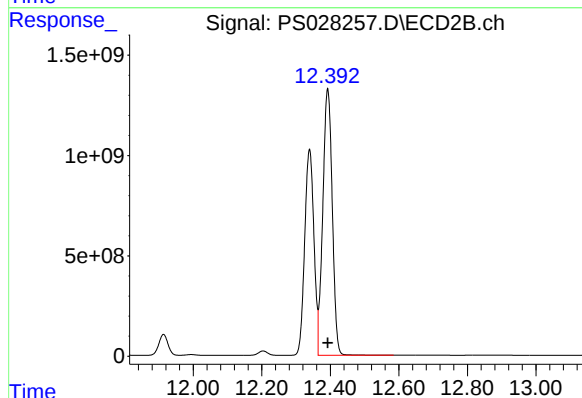
R.T.: 11.291 min
Delta R.T.: 0.000 min
Response: 11997120276
Conc: 1375.56 ng/ml



#15 Picloram

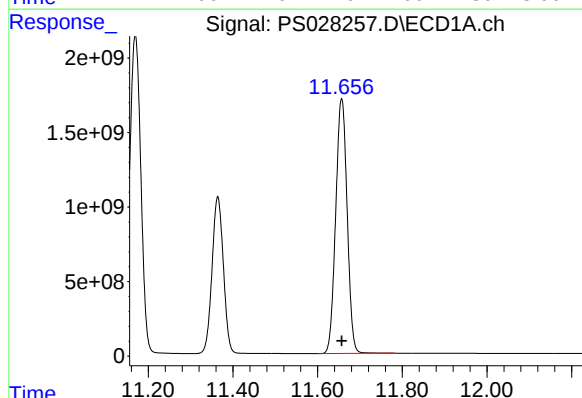
R.T.: 11.169 min
Delta R.T.: 0.000 min
Response: 40302344891
Conc: 1389.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



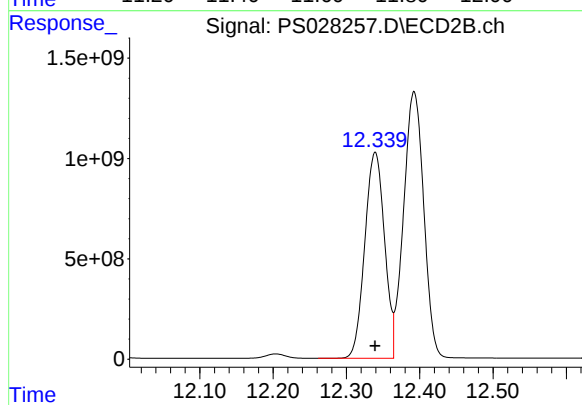
#15 Picloram

R.T.: 12.392 min
Delta R.T.: 0.000 min
Response: 25436358300
Conc: 1410.61 ng/ml



#16 DCPA

R.T.: 11.657 min
Delta R.T.: 0.000 min
Response: 32077605577
Conc: 1350.11 ng/ml



#16 DCPA

R.T.: 12.339 min
Delta R.T.: 0.000 min
Response: 19195123291
Conc: 1370.05 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028258.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 11:48
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

ICVPS110624

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 12:11:51 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.262	7.765	1909.2E6	1293.6E6	745.363m	742.673
Target Compounds							
1) T	Dalapon	2.654	2.709	2373.4E6	1927.9E6	666.847	655.176
2) T	3,5-DICHL...	6.430	6.715	2570.6E6	1755.0E6	685.711	693.418
3) T	4-Nitroph...	7.062	7.292	1107.2E6	767.5E6	672.021	669.796
5) T	DICAMBA	7.452	7.967	7889.1E6	5731.6E6	702.591	713.550
6) T	MCPD	7.636	8.068	542.8E6	432.6E6	71.588	71.259
7) T	MCPA	7.786	8.314	725.3E6	577.6E6	69.669	69.262
8) T	DICHLORPROP	8.163	8.684	1952.7E6	1408.3E6	692.610	700.894
9) T	2,4-D	8.394	9.015	2195.2E6	1559.6E6	695.547	699.350
10) T	Pentachlo...	8.694	9.546	30589.2E6	20926.4E6	735.976	717.525
11) T	2,4,5-TP ...	9.277	9.922	12149.8E6	8927.5E6	713.618	717.488
12) T	2,4,5-T	9.570	10.344	12376.6E6	8776.4E6	713.944	715.459
13) T	2,4-DB	10.147	10.912	2007.4E6	1125.1E6	710.202	709.878
14) T	DINOSEB	11.365	11.291	10291.5E6	6191.3E6	711.775	709.875
15) T	Picloram	11.170	12.392	20981.7E6	13132.8E6	723.535	728.298
16) T	DCPA	11.657	12.338	17237.5E6	10137.8E6	725.504	723.586

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028258.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 11:48
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

ICVPS110624

Manual Integrations

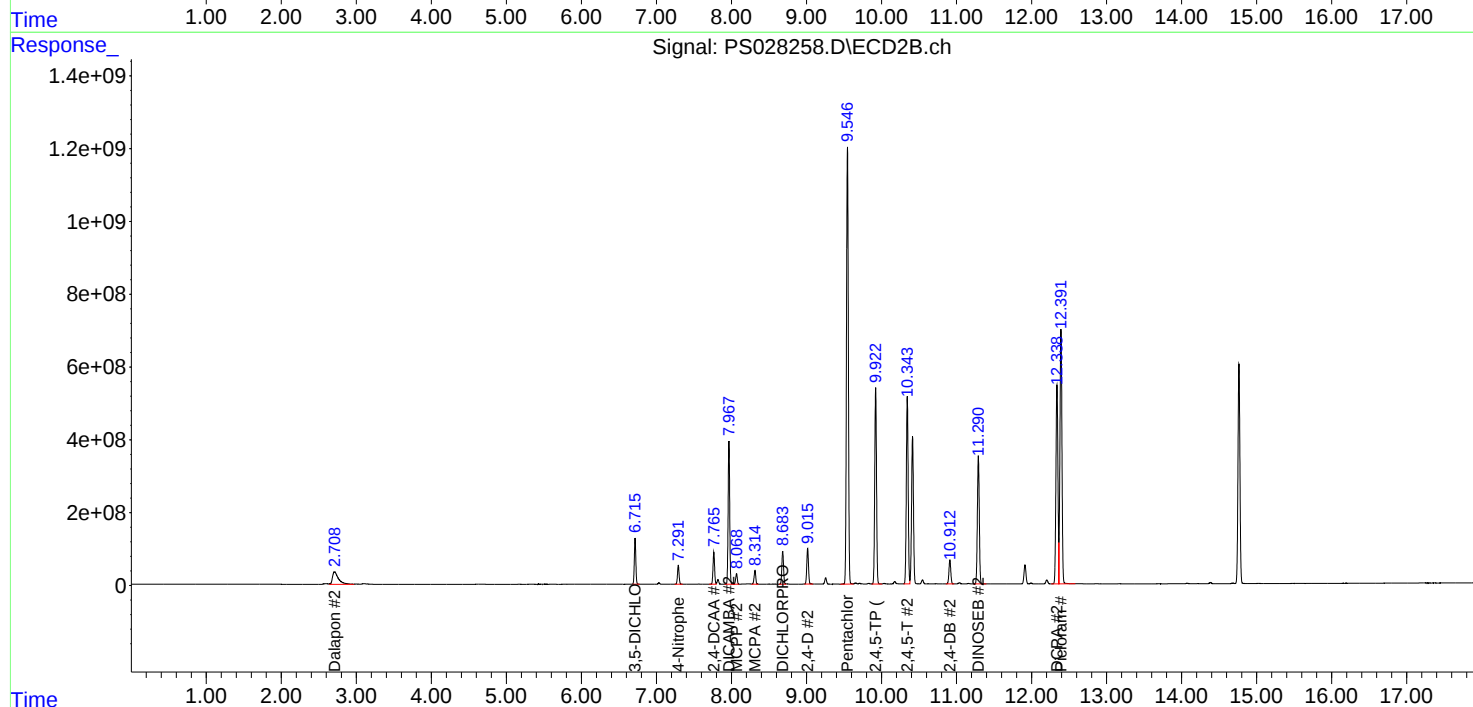
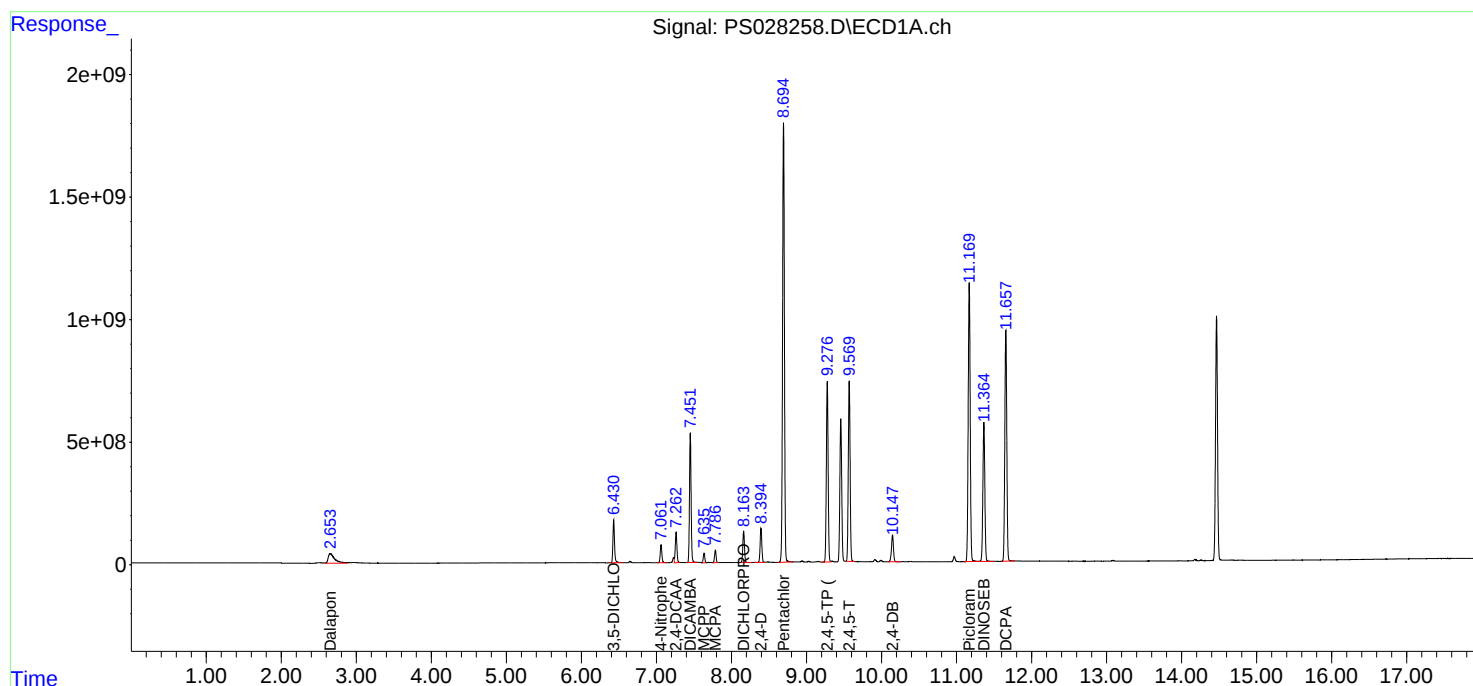
APPROVED

Reviewed By :Abdul Mirza 11/08/2024

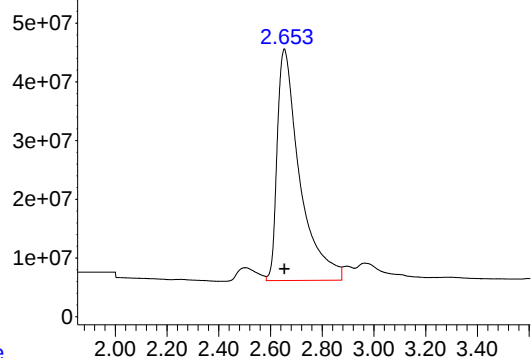
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 12:11:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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: PS028258.D\ECD1A.ch



#1 Dalapon

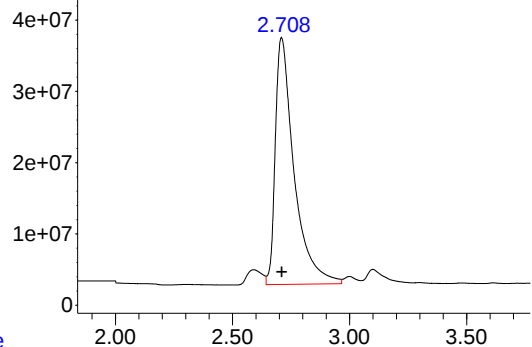
R.T.: 2.654 min
Delta R.T.: 0.000 min
Response: 2373437505
Conc: 666.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS110624

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

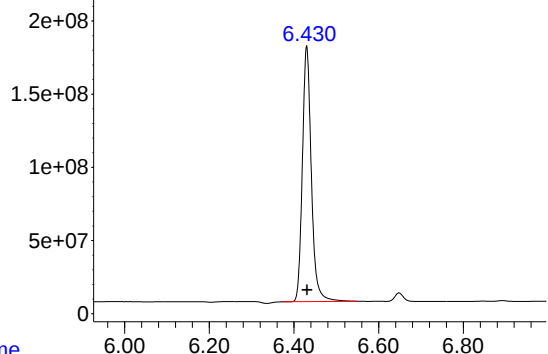
Time Response_ Signal: PS028258.D\ECD2B.ch



#1 Dalapon

R.T.: 2.709 min
Delta R.T.: 0.000 min
Response: 1927851748
Conc: 655.18 ng/ml

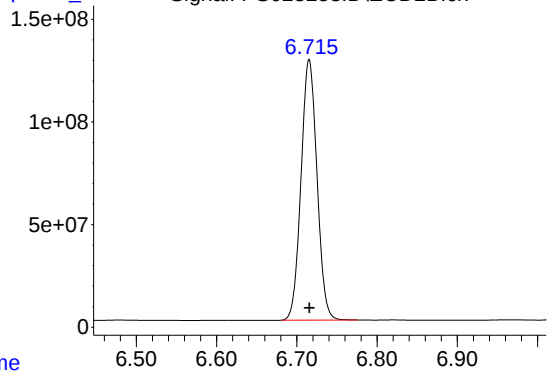
Time Response_ Signal: PS028258.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

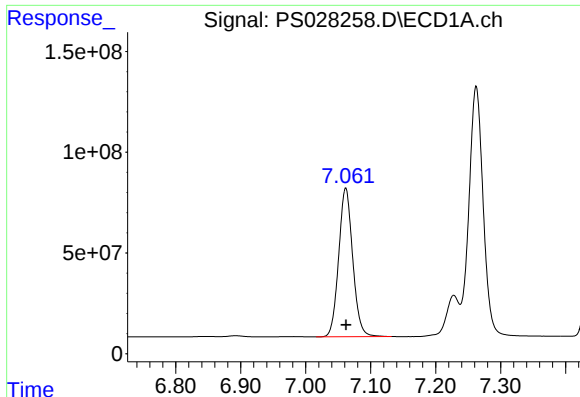
R.T.: 6.430 min
Delta R.T.: 0.000 min
Response: 2570578935
Conc: 685.71 ng/ml

Time Response_ Signal: PS028258.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.715 min
Delta R.T.: 0.000 min
Response: 1754975997
Conc: 693.42 ng/ml



#3 4-Nitrophenol

R.T.: 7.062 min
Delta R.T.: 0.000 min
Response: 1107199097
Conc: 672.02 ng/ml

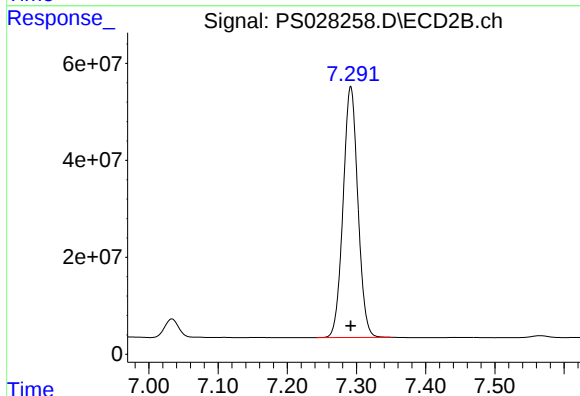
Instrument :

ECD_S

ClientSampleId :
ICVPS110624

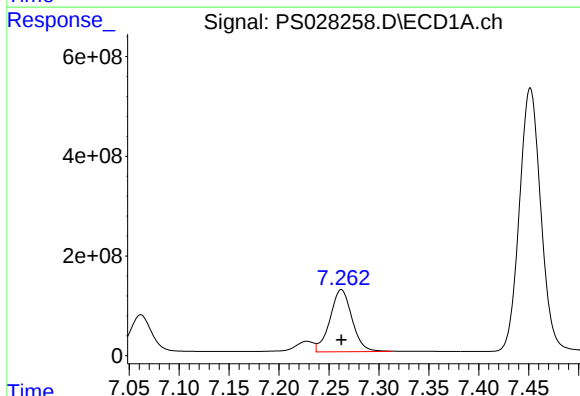
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



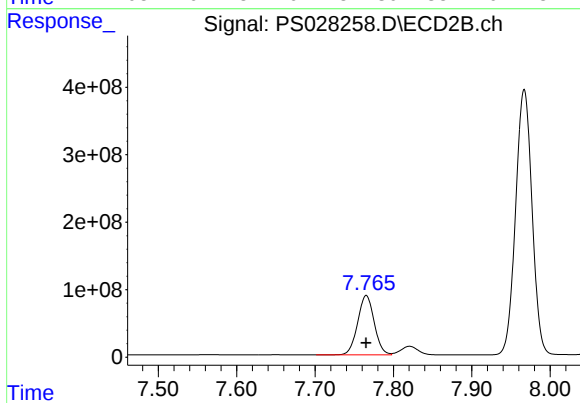
#3 4-Nitrophenol

R.T.: 7.292 min
Delta R.T.: 0.000 min
Response: 767549713
Conc: 669.80 ng/ml



#4 2,4-DCAA

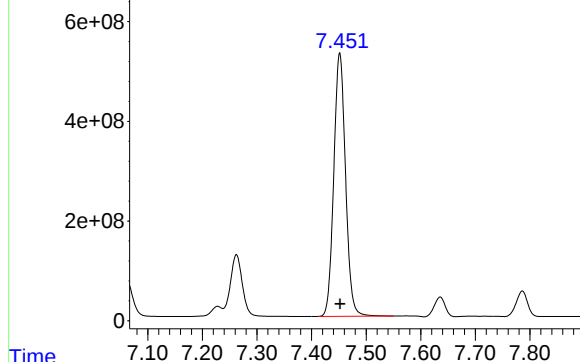
R.T.: 7.262 min
Delta R.T.: 0.000 min
Response: 1909182866
Conc: 745.36 ng/ml m



#4 2,4-DCAA

R.T.: 7.765 min
Delta R.T.: 0.000 min
Response: 1293573737
Conc: 742.67 ng/ml

Response_ Signal: PS028258.D\ECD1A.ch



#5 DICAMBA

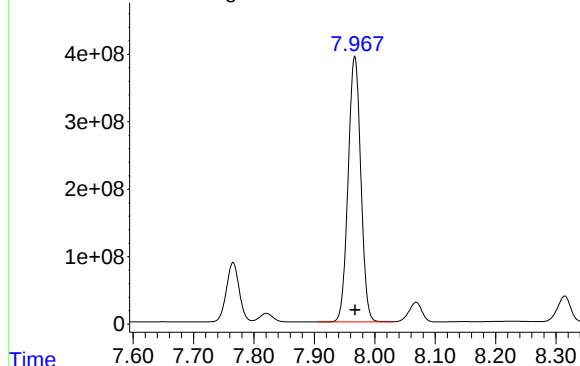
R.T.: 7.452 min
Delta R.T.: 0.000 min
Response: 7889067087
Conc: 702.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS110624

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

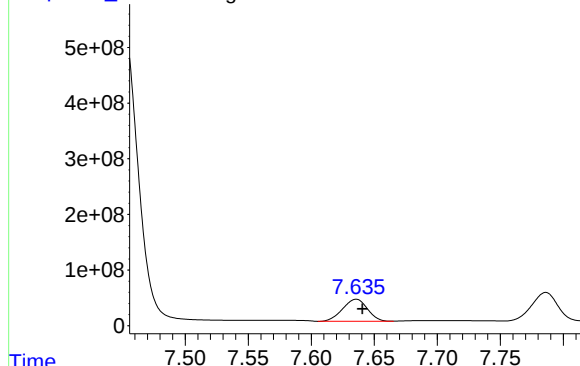
Response_ Signal: PS028258.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.967 min
Delta R.T.: 0.000 min
Response: 5731636475
Conc: 713.55 ng/ml

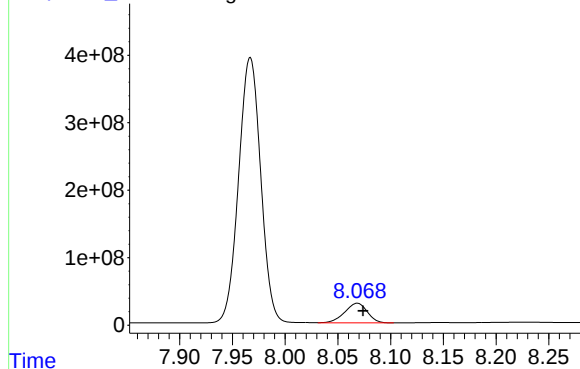
Response_ Signal: PS028258.D\ECD1A.ch



#6 MCP

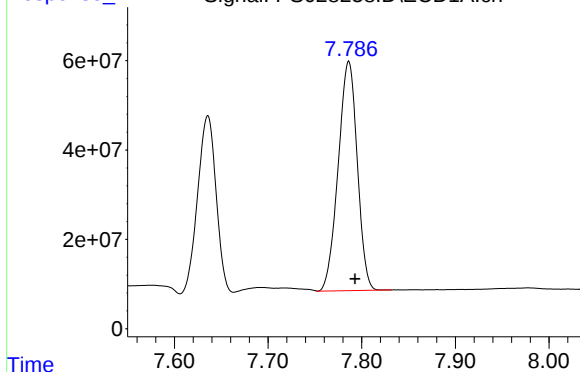
R.T.: 7.636 min
Delta R.T.: -0.005 min
Response: 542815400
Conc: 71.59 ug/ml

Response_ Signal: PS028258.D\ECD2B.ch



#6 MCP

R.T.: 8.068 min
Delta R.T.: -0.006 min
Response: 432634547
Conc: 71.26 ug/ml



R.T.: 7.786 min
Delta R.T.: -0.007 min
Response: 725334951
Conc: 69.67 ug/ml

Instrument :

ECD_S

ClientSampleId :

ICVPS110624

Manual Integrations

APPROVED

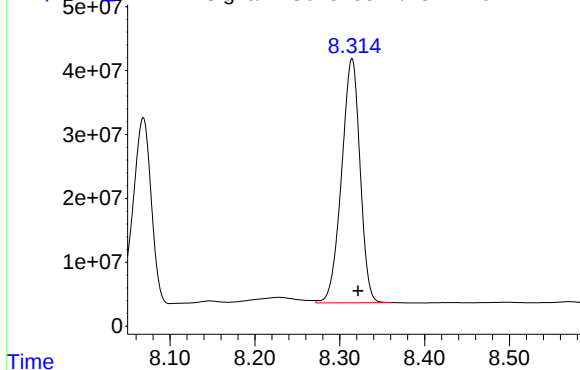
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time

Response

Signal: PS028258.D\ECD2B.ch

#7 MCPA



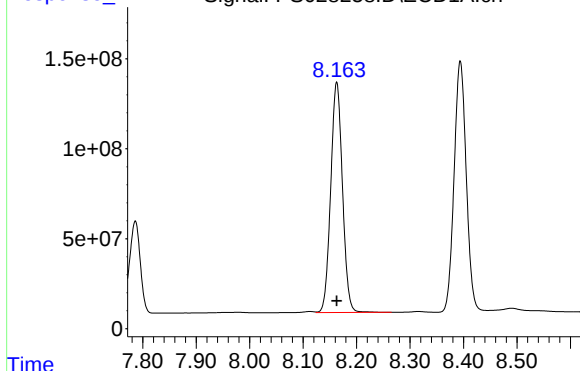
R.T.: 8.314 min
Delta R.T.: -0.007 min
Response: 577550521
Conc: 69.26 ug/ml

Time

Response_

Signal: PS028258.D\ECD1A.ch

#8 DICHLORPROP



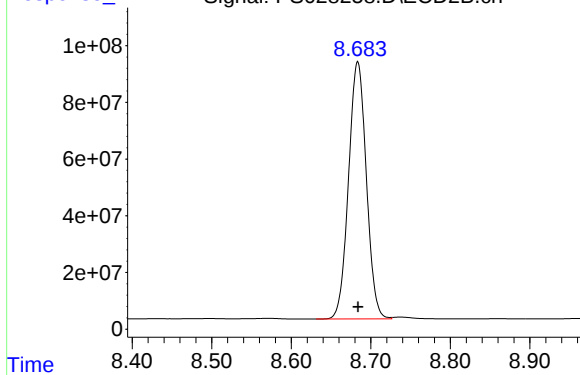
R.T.: 8.163 min
Delta R.T.: 0.000 min
Response: 1952660519
Conc: 692.61 ng/ml

Time

Response_

Signal: PS028258.D\ECD2B.ch

#8 DICHLORPROP



R.T.: 8.684 min
Delta R.T.: 0.000 min
Response: 1408266062
Conc: 700.89 ng/ml

Time

Response_ Signal: PS028258.D\ECD1A.ch

#9 2,4-D

R.T.: 8.394 min
Delta R.T.: 0.000 min
Response: 2195223158
Conc: 695.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS110624

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time

Response_ Signal: PS028258.D\ECD2B.ch

#9 2,4-D

R.T.: 9.015 min
Delta R.T.: 0.000 min
Response: 1559648407
Conc: 699.35 ng/ml

Time

Response_ Signal: PS028258.D\ECD1A.ch

#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: -0.002 min
Response: 30589152356
Conc: 735.98 ng/ml

Time

Response_ Signal: PS028258.D\ECD2B.ch

#10 Pentachlorophenol

R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 20926388934
Conc: 717.52 ng/ml

Time

Response_ Signal: PS028258.D\ECD1A.ch

#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: -0.002 min
Response: 30589152356
Conc: 735.98 ng/ml

Time

Response_ Signal: PS028258.D\ECD2B.ch

#10 Pentachlorophenol

R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 20926388934
Conc: 717.52 ng/ml

Time

Response_ Signal: PS028258.D\ECD1A.ch

#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: -0.002 min
Response: 30589152356
Conc: 735.98 ng/ml

Time

Response_ Signal: PS028258.D\ECD2B.ch

#10 Pentachlorophenol

R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 20926388934
Conc: 717.52 ng/ml

Time

Response_ Signal: PS028258.D\ECD1A.ch

#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: -0.002 min
Response: 30589152356
Conc: 735.98 ng/ml

Time

Response_ Signal: PS028258.D\ECD2B.ch

#10 Pentachlorophenol

R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 20926388934
Conc: 717.52 ng/ml

Time

Response_ Signal: PS028258.D\ECD1A.ch

#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: -0.002 min
Response: 30589152356
Conc: 735.98 ng/ml

Time

Response_ Signal: PS028258.D\ECD2B.ch

#10 Pentachlorophenol

R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 20926388934
Conc: 717.52 ng/ml

Time

Response_ Signal: PS028258.D\ECD1A.ch

#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: -0.002 min
Response: 30589152356
Conc: 735.98 ng/ml

Time

Response_ Signal: PS028258.D\ECD2B.ch

#10 Pentachlorophenol

R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 20926388934
Conc: 717.52 ng/ml

Time

Response_ Signal: PS028258.D\ECD1A.ch

#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: -0.002 min
Response: 30589152356
Conc: 735.98 ng/ml

Time

Response_ Signal: PS028258.D\ECD2B.ch

#10 Pentachlorophenol

R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 20926388934
Conc: 717.52 ng/ml

Time

Response_ Signal: PS028258.D\ECD1A.ch

#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: -0.002 min
Response: 30589152356
Conc: 735.98 ng/ml

Time

Response_ Signal: PS028258.D\ECD2B.ch

#10 Pentachlorophenol

R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 20926388934
Conc: 717.52 ng/ml

Time

Response_ Signal: PS028258.D\ECD1A.ch

#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: -0.002 min
Response: 30589152356
Conc: 735.98 ng/ml

Time

Response_ Signal: PS028258.D\ECD2B.ch

#10 Pentachlorophenol

R.T.: 9.546 min
Delta R.T.: 0.000 min
Response: 20926388934
Conc: 717.52 ng/ml

Time

Response_ Signal: PS028258.D\ECD1A.ch

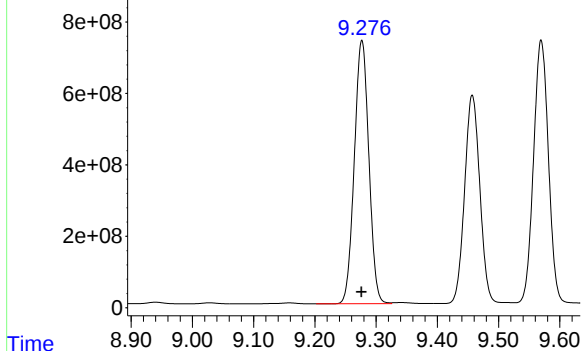
#10 Pentachlorophenol

R.T.: 8.694 min
Delta R.T.: -0.002 min
Response: 30589152356
Conc: 735.98 ng/ml

Time

Response_ Signal: PS028258.D\ECD2B.ch

#10 Pentachlorophenol

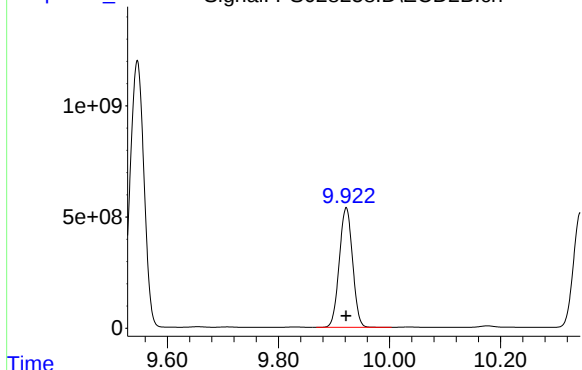


R.T.: 9.277 min
Delta R.T.: 0.000 min
Response: 12149790397
Conc: 713.62 ng/ml

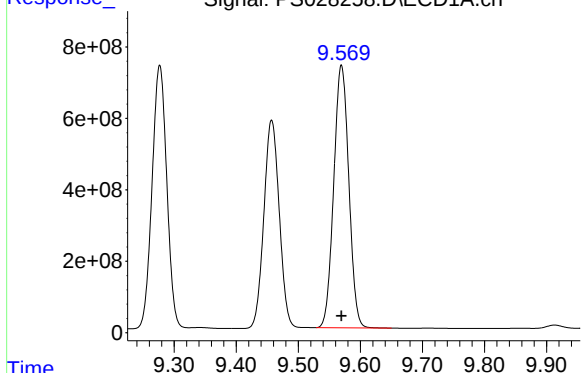
Instrument :
ECD_S
ClientSampleId :
ICVPS110624

Manual Integrations
APPROVED

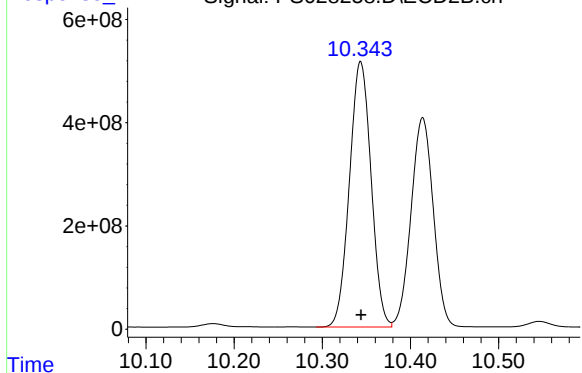
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



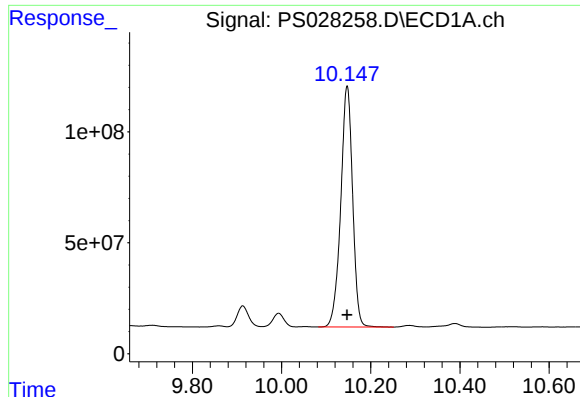
R.T.: 9.922 min
Delta R.T.: 0.000 min
Response: 8927486585
Conc: 717.49 ng/ml



R.T.: 9.570 min
Delta R.T.: 0.000 min
Response: 12376586172
Conc: 713.94 ng/ml



R.T.: 10.344 min
Delta R.T.: 0.000 min
Response: 8776384079
Conc: 715.46 ng/ml



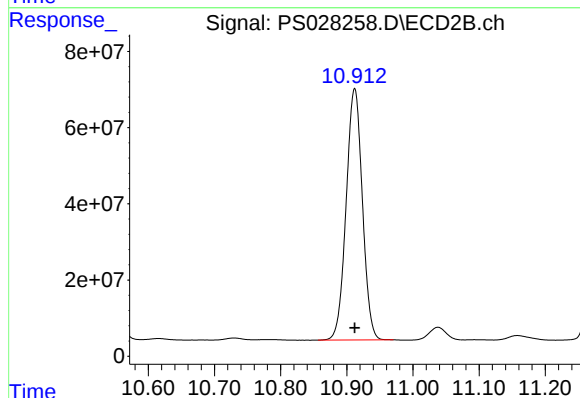
#13 2,4-DB

R.T.: 10.147 min
Delta R.T.: 0.000 min
Response: 2007409621
Conc: 710.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS110624

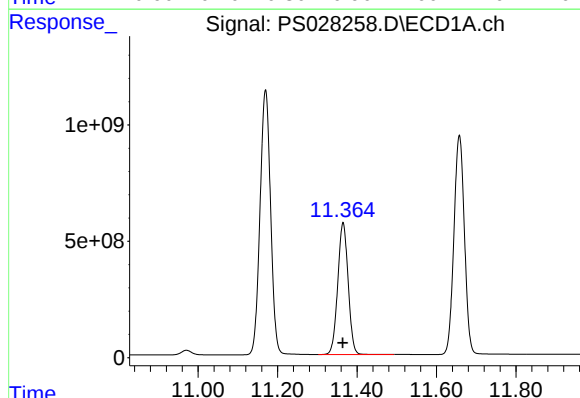
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



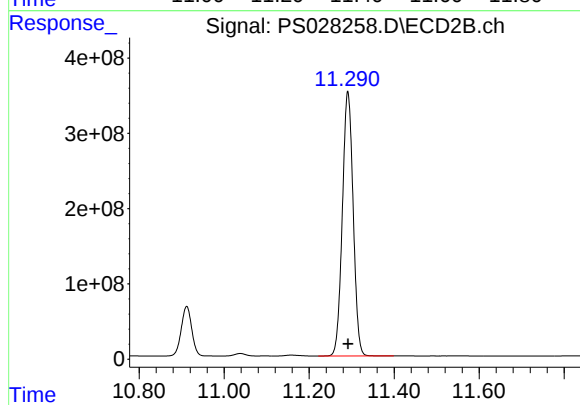
#13 2,4-DB

R.T.: 10.912 min
Delta R.T.: 0.000 min
Response: 1125084734
Conc: 709.88 ng/ml



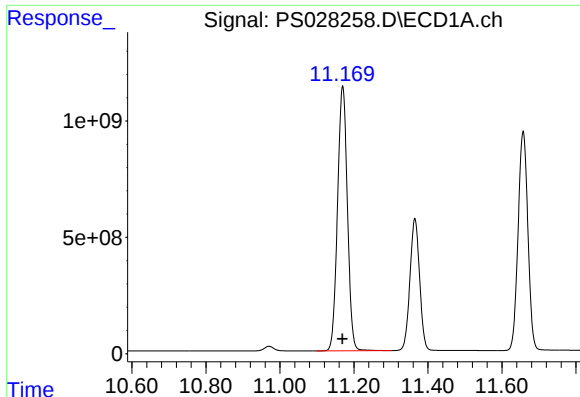
#14 DINOSEB

R.T.: 11.365 min
Delta R.T.: 0.000 min
Response: 1029153668
Conc: 711.78 ng/ml



#14 DINOSEB

R.T.: 11.291 min
Delta R.T.: 0.000 min
Response: 6191285946
Conc: 709.88 ng/ml



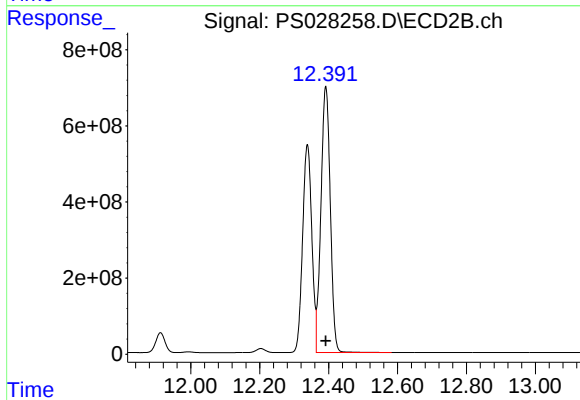
#15 Picloram

R.T.: 11.170 min
Delta R.T.: 0.000 min
Response: 20981716114
Conc: 723.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS110624

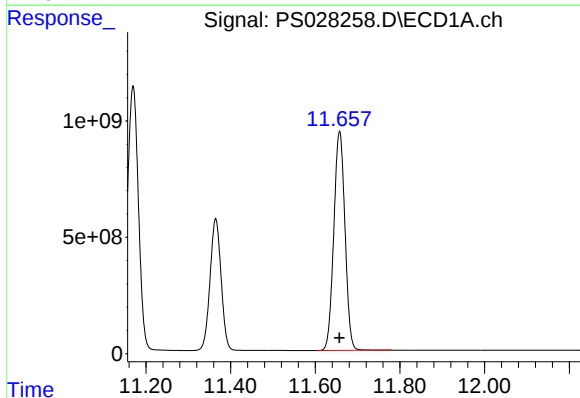
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



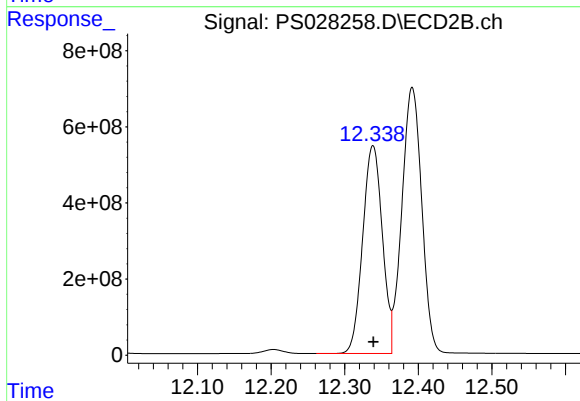
#15 Picloram

R.T.: 12.392 min
Delta R.T.: 0.000 min
Response: 13132787505
Conc: 728.30 ng/ml



#16 DCPA

R.T.: 11.657 min
Delta R.T.: 0.000 min
Response: 17237460769
Conc: 725.50 ng/ml



#16 DCPA

R.T.: 12.338 min
Delta R.T.: 0.000 min
Response: 10137797130
Conc: 723.59 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 05:18 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.24	7.24	7.14	7.34	0.00
2,4-DCAA	7.06	7.06	6.96	7.16	0.00
DICHLORPROP	7.92	7.92	7.82	8.02	0.00
2,4-D	8.15	8.14	8.04	8.24	-0.01
2,4,5-TP(Silvex)	9.00	8.99	8.89	9.09	-0.01
2,4,5-T	9.28	9.28	9.18	9.38	0.00
2,4-DB	9.84	9.84	9.74	9.94	0.00
Dinoseb	11.01	11.01	10.91	11.11	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 05:18 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.80	7.80	7.70	7.90	0.00
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
DICHLORPROP	8.51	8.50	8.40	8.60	-0.01
2,4-D	8.83	8.83	8.73	8.93	0.00
2,4,5-TP(Silvex)	9.72	9.72	9.62	9.82	0.00
2,4,5-T	10.14	10.13	10.03	10.23	-0.01
2,4-DB	10.70	10.70	10.60	10.80	0.00
Dinoseb	11.08	11.07	10.97	11.17	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL01 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028146.D Time Analyzed: 05:18

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.279	9.176	9.376	748.110	712.500	5.0
2,4,5-TP(Silvex)	8.996	8.893	9.093	752.610	712.500	5.6
2,4-D	8.145	8.042	8.242	732.210	705.000	3.9
2,4-DB	9.841	9.737	9.937	748.580	712.500	5.1
2,4-DCAA	7.064	6.962	7.162	767.010	750.000	2.3
DICAMBA	7.242	7.140	7.340	737.040	705.000	4.5
DICHLORPROP	7.923	7.821	8.021	729.770	705.000	3.5
Dinoseb	11.014	10.910	11.110	732.980	705.000	4.0



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL01 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028146.D Time Analyzed: 05:18

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.138	10.034	10.234	779.470	712.500	9.4
2,4,5-TP(Silvex)	9.723	9.620	9.820	774.850	712.500	8.8
2,4-D	8.831	8.728	8.928	741.680	705.000	5.2
2,4-DB	10.701	10.597	10.797	782.100	712.500	9.8
2,4-DCAA	7.607	7.505	7.705	777.940	750.000	3.7
DICAMBA	7.801	7.698	7.898	750.470	705.000	6.4
DICHLORPROP	8.507	8.404	8.604	739.240	705.000	4.9
Dinoseb	11.075	10.971	11.171	767.650	705.000	8.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
 Data File : PS028146.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 Nov 2024 05:18
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 11/01/2024

Supervised By :Ankita Jodhani 11/05/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 01 05:41:26 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:10:03 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	7.064	7.607	2399.8E6	777.3E6	767.012	777.943m
Target Compounds						
1) T Dalapon	2.524	2.593	3007.6E6	1474.8E6	732.399	684.209
2) T 3,5-DICHL...	6.262	6.584	3329.6E6	1125.3E6	718.839	729.625
3) T 4-Nitroph...	6.859	7.143	1662.0E6	475.9E6	706.588	698.492
5) T DICAMBA	7.242	7.801	10088.4E6	3413.9E6	737.039	750.474
6) T MCPP	7.421	7.906	711.2E6	232.1E6	75.559	74.149
7) T MCPA	7.565	8.145	946.8E6	319.6E6	73.176	70.540
8) T DICHLORPROP	7.923	8.507	2482.2E6	808.4E6	729.770m	739.240
9) T 2,4-D	8.145	8.831	2973.7E6	903.0E6	732.210	741.680
10) T Pentachlo...	8.431	9.343	38748.6E6	12665.7E6	788.118	763.355
11) T 2,4,5-TP ...	8.996	9.723	15333.5E6	4924.3E6	752.608	774.855
12) T 2,4,5-T	9.279	10.138	16217.0E6	4771.2E6	748.111	779.466
13) T 2,4-DB	9.841	10.701	2544.4E6	591.6E6	748.578	782.104
14) T DINOSEB	11.014	11.075	12088.0E6	3477.1E6	732.985	767.652
15) T Picloram	10.830	12.151	25408.7E6	6450.1E6	736.316	779.399
16) T DCPA	11.314	12.109	18021.2E6	5700.8E6	754.763	809.957

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028146.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 05:18
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

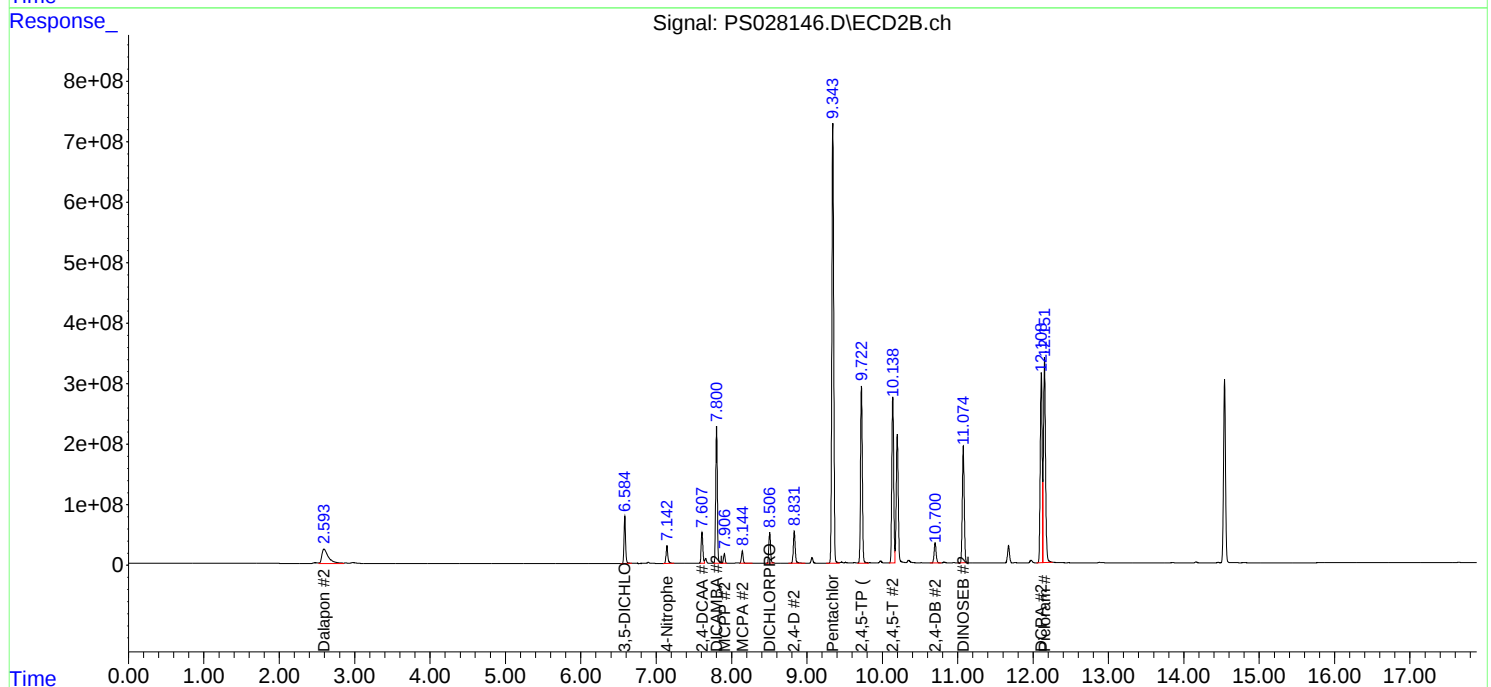
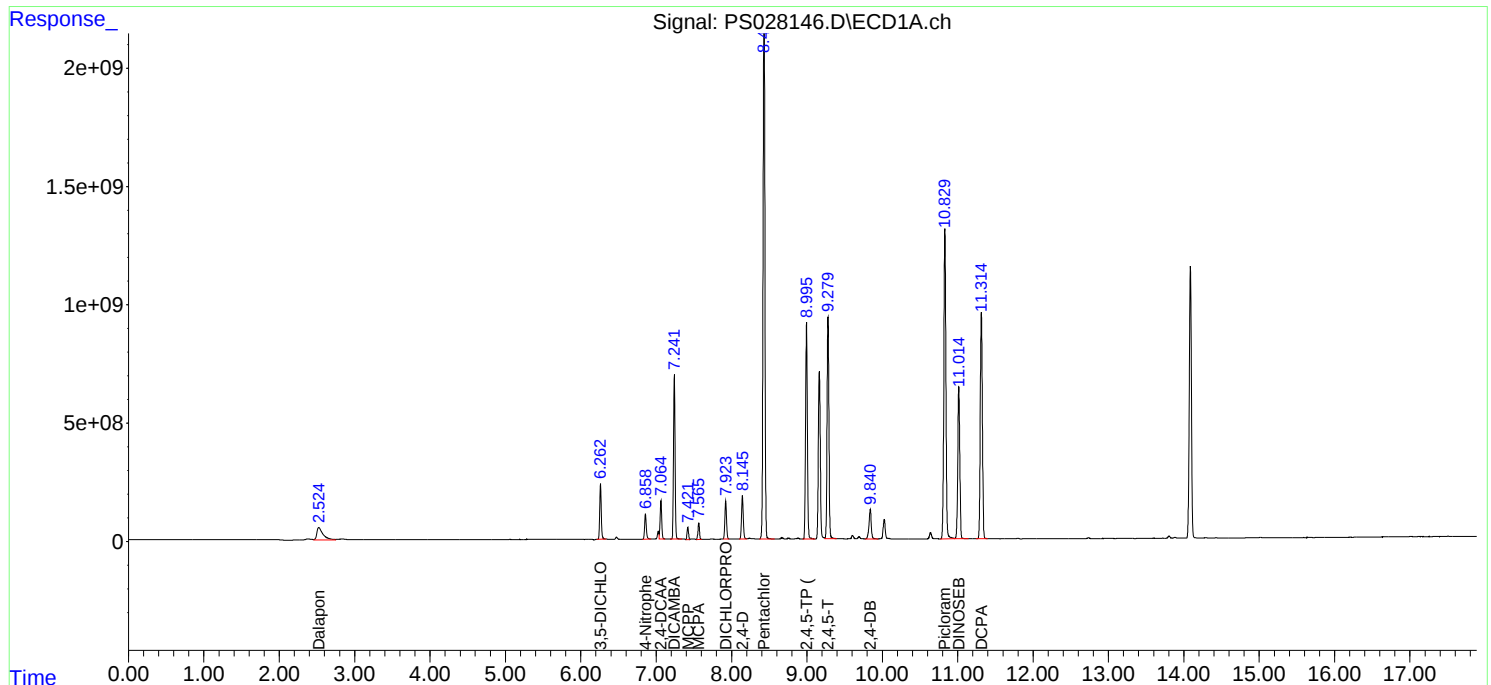
APPROVED

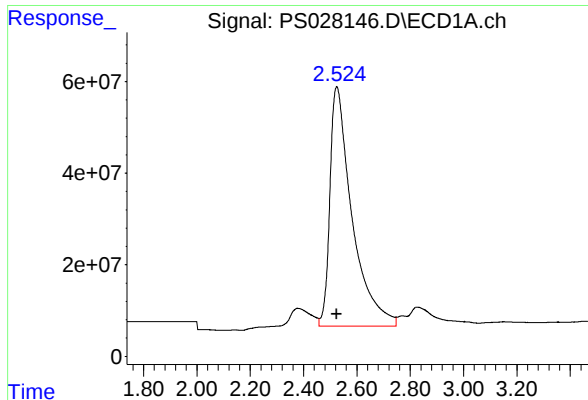
Reviewed By :Abdul Mirza 11/01/2024

Supervised By :Ankita Jodhani 11/05/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 05:41:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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.: 2.524 min
Delta R.T.: 0.000 min
Response: 3007574040
Conc: 732.40 ng/ml

Instrument :

ECD_S

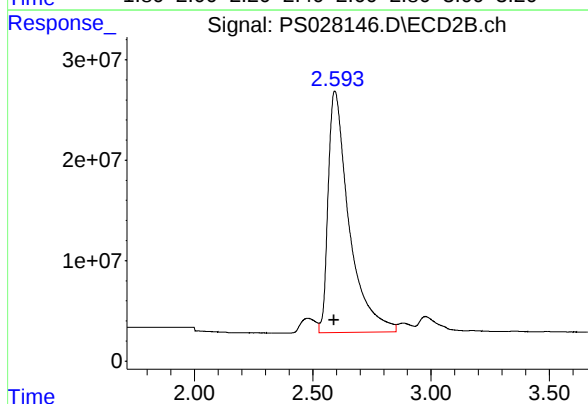
ClientSampleId :

HSTDCCC750

Manual Integrations

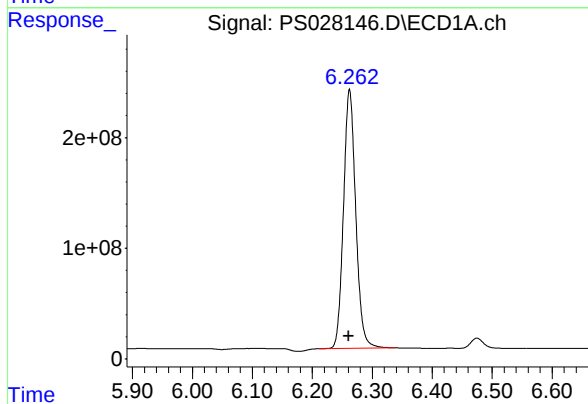
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



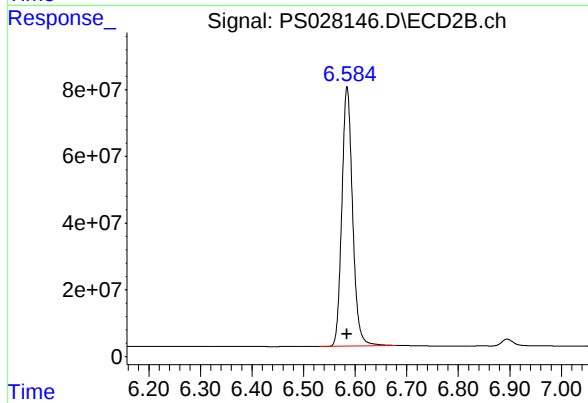
#1 Dalapon

R.T.: 2.593 min
Delta R.T.: 0.002 min
Response: 1474793263
Conc: 684.21 ng/ml



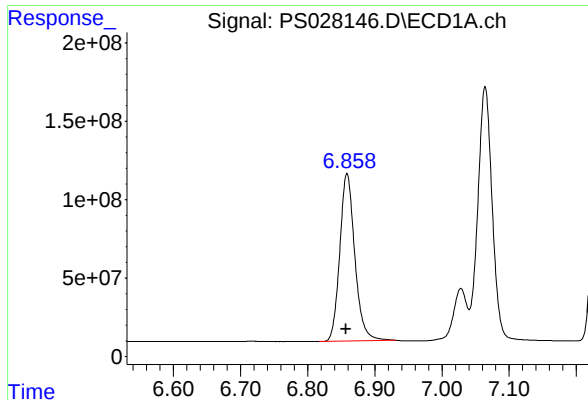
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.262 min
Delta R.T.: 0.002 min
Response: 3329584157
Conc: 718.84 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.584 min
Delta R.T.: 0.000 min
Response: 1125282315
Conc: 729.62 ng/ml



#3 4-Nitrophenol

R.T.: 6.859 min
Delta R.T.: 0.002 min
Response: 1661984348
Conc: 706.59 ng/ml

Instrument :

ECD_S

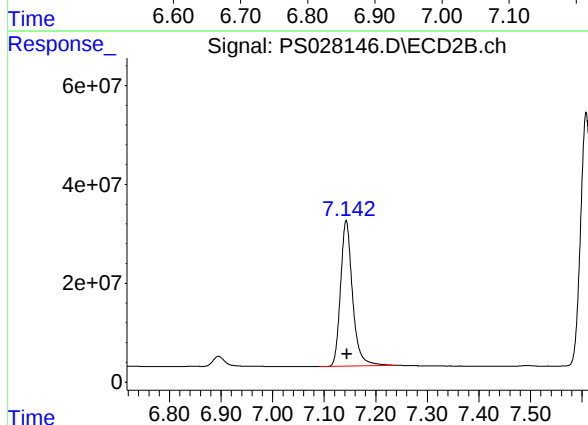
ClientSampleId :

HSTDCCC750

Manual Integrations

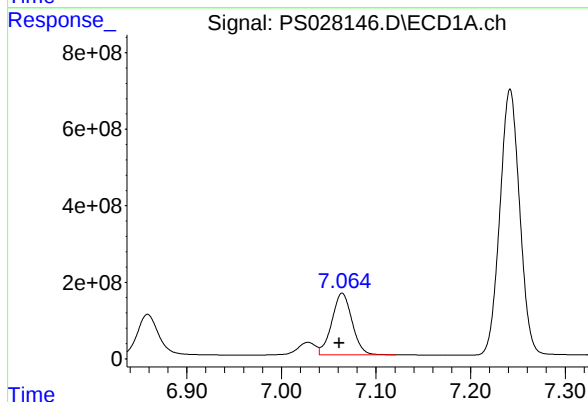
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



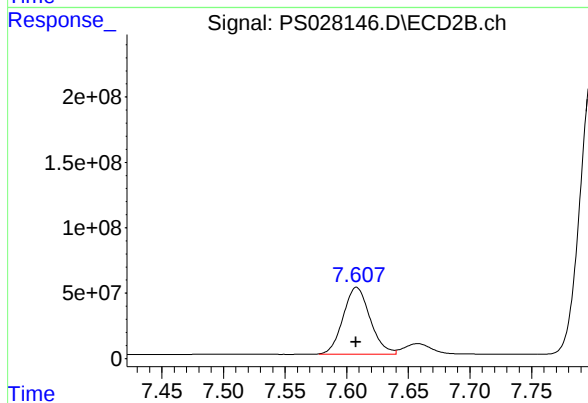
#3 4-Nitrophenol

R.T.: 7.143 min
Delta R.T.: -0.001 min
Response: 475861142
Conc: 698.49 ng/ml



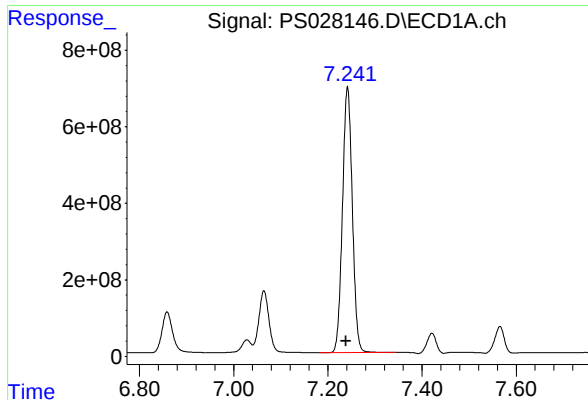
#4 2,4-DCAA

R.T.: 7.064 min
Delta R.T.: 0.003 min
Response: 2399785507
Conc: 767.01 ng/ml



#4 2,4-DCAA

R.T.: 7.607 min
Delta R.T.: 0.000 min
Response: 777278087
Conc: 777.94 ng/ml m



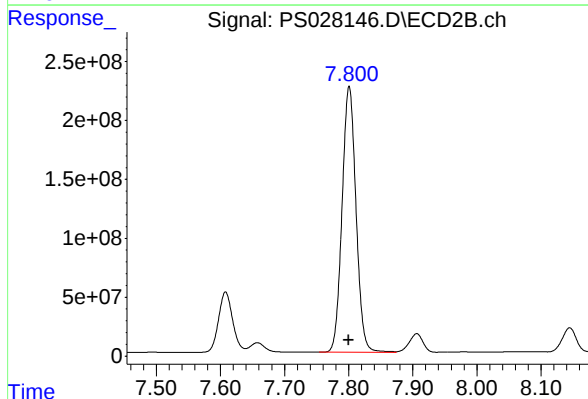
#5 DICAMBA

R.T.: 7.242 min
Delta R.T.: 0.003 min
Response: 10088372640
Conc: 737.04 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

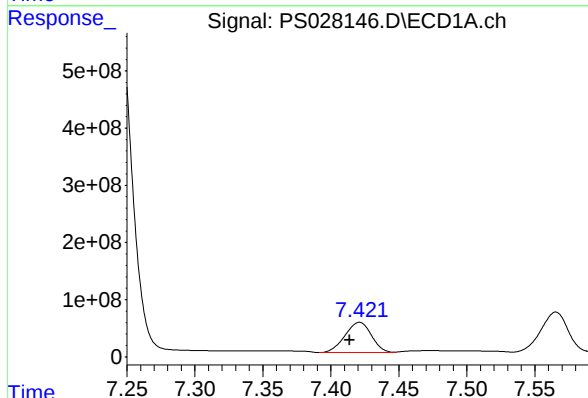
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



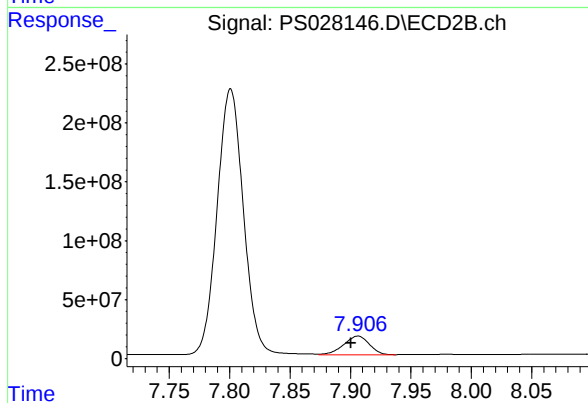
#5 DICAMBA

R.T.: 7.801 min
Delta R.T.: 0.001 min
Response: 3413941247
Conc: 750.47 ng/ml



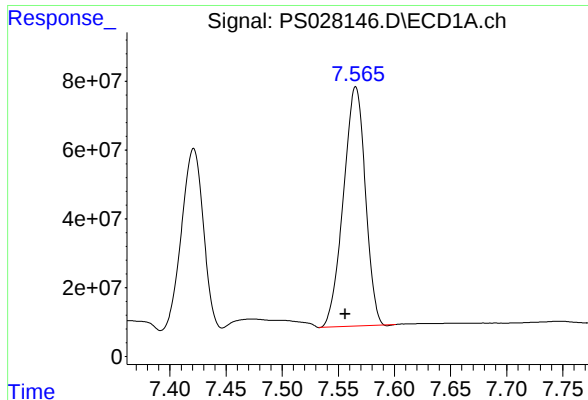
#6 MCP

R.T.: 7.421 min
Delta R.T.: 0.007 min
Response: 711193888
Conc: 75.56 ug/ml



#6 MCP

R.T.: 7.906 min
Delta R.T.: 0.006 min
Response: 232126131
Conc: 74.15 ug/ml



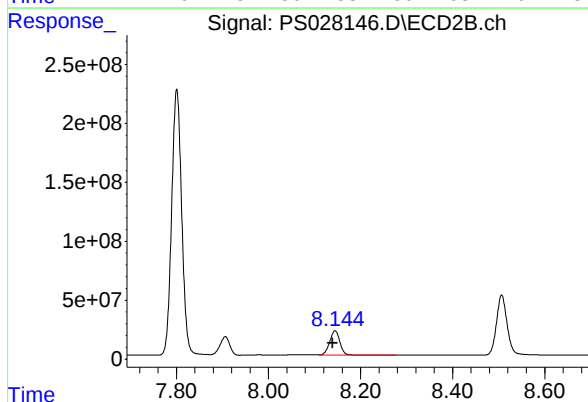
#7 MCPA

R.T.: 7.565 min
Delta R.T.: 0.009 min
Response: 946791209
Conc: 73.18 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

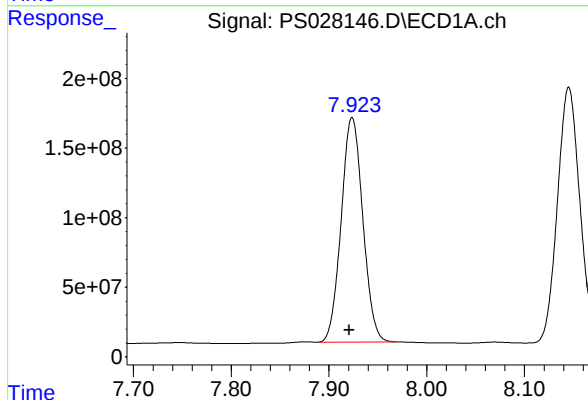
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



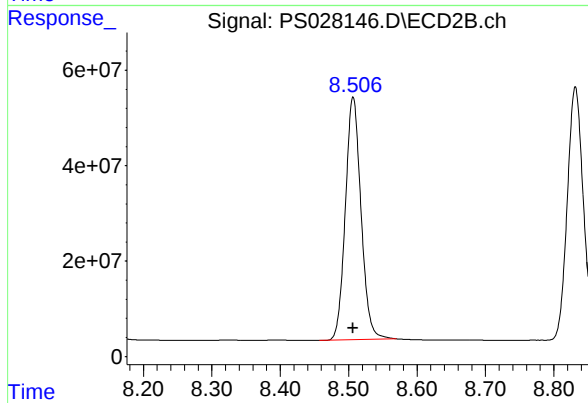
#7 MCPA

R.T.: 8.145 min
Delta R.T.: 0.006 min
Response: 319568933
Conc: 70.54 ug/ml



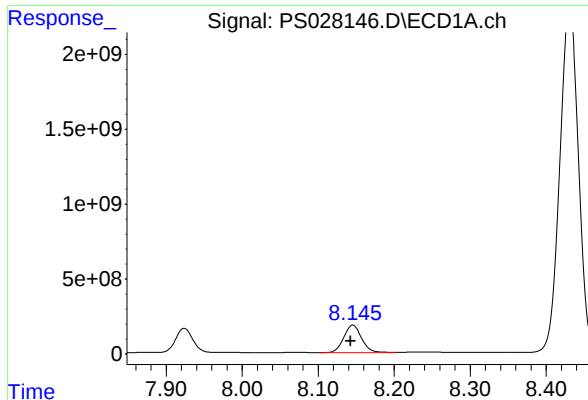
#8 DICHLORPROP

R.T.: 7.923 min
Delta R.T.: 0.003 min
Response: 2482172465
Conc: 729.77 ng/ml m



#8 DICHLORPROP

R.T.: 8.507 min
Delta R.T.: 0.000 min
Response: 808412349
Conc: 739.24 ng/ml



#9 2,4-D

R.T.: 8.145 min
Delta R.T.: 0.003 min
Response: 2973746553
Conc: 732.21 ng/ml

Instrument :

ECD_S

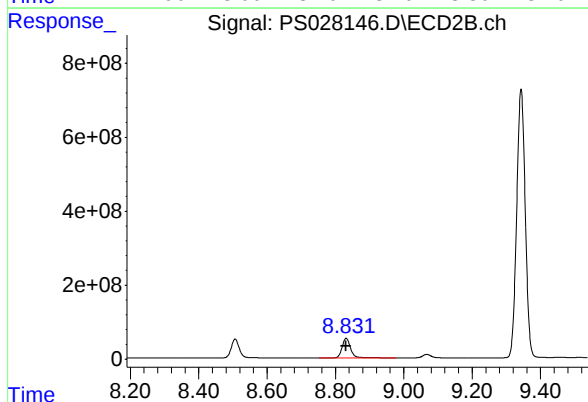
ClientSampleId :

HSTDCCC750

Manual Integrations

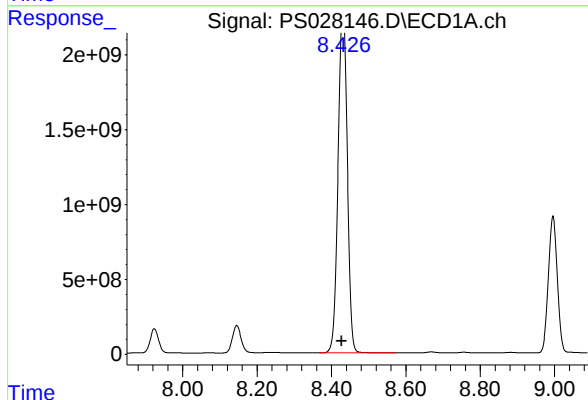
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



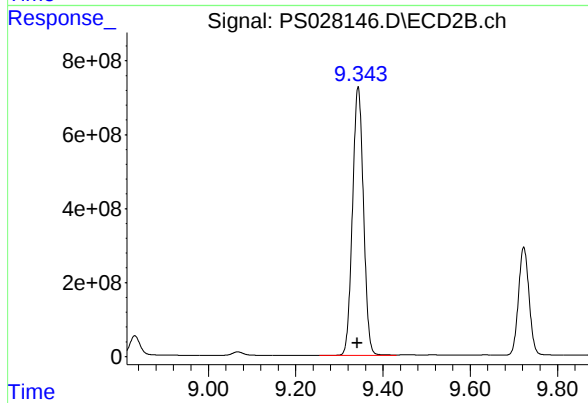
#9 2,4-D

R.T.: 8.831 min
Delta R.T.: 0.000 min
Response: 903003663
Conc: 741.68 ng/ml



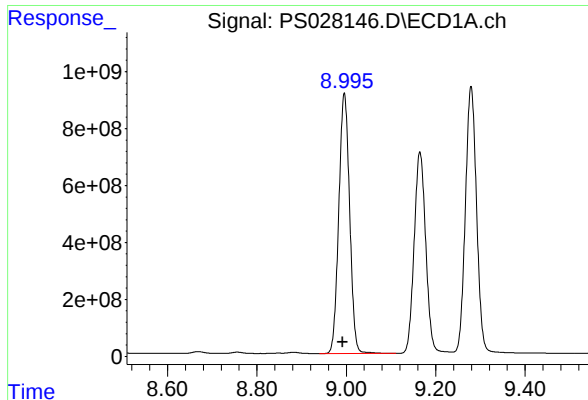
#10 Pentachlorophenol

R.T.: 8.431 min
Delta R.T.: 0.004 min
Response: 38748583036
Conc: 788.12 ng/ml



#10 Pentachlorophenol

R.T.: 9.343 min
Delta R.T.: 0.002 min
Response: 12665686563
Conc: 763.36 ng/ml



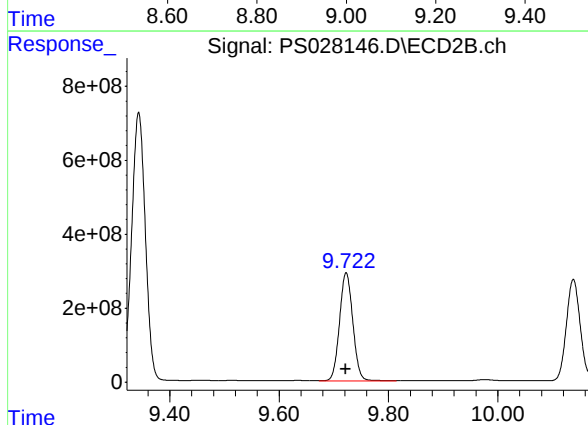
#11 2,4,5-TP (SILVEX)

R.T.: 8.996 min
Delta R.T.: 0.004 min
Response: 15333543944
Conc: 752.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

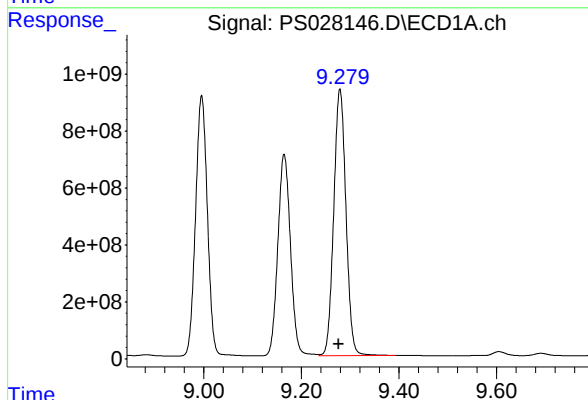
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



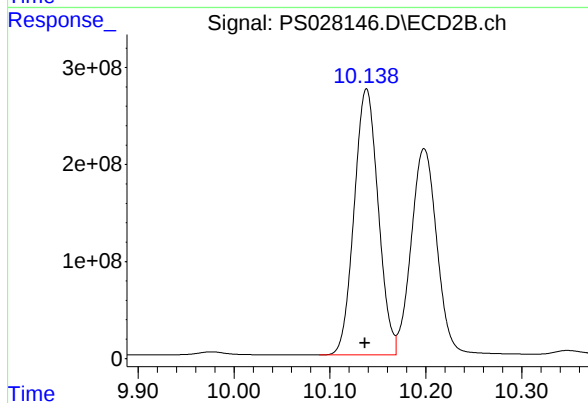
#11 2,4,5-TP (SILVEX)

R.T.: 9.723 min
Delta R.T.: 0.000 min
Response: 4924332210
Conc: 774.85 ng/ml



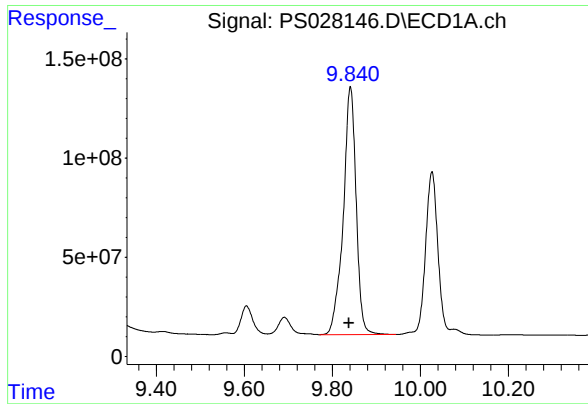
#12 2,4,5-T

R.T.: 9.279 min
Delta R.T.: 0.003 min
Response: 16216987782
Conc: 748.11 ng/ml



#12 2,4,5-T

R.T.: 10.138 min
Delta R.T.: 0.002 min
Response: 4771210761
Conc: 779.47 ng/ml



#13 2,4-DB

R.T.: 9.841 min
Delta R.T.: 0.004 min
Response: 2544392868
Conc: 748.58 ng/ml

Instrument :

ECD_S

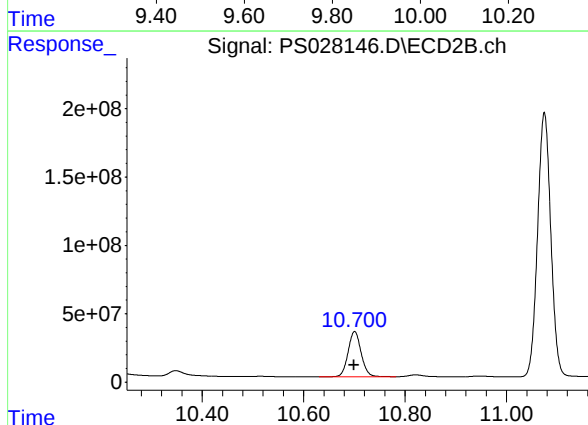
ClientSampleId :

HSTDCCC750

Manual Integrations

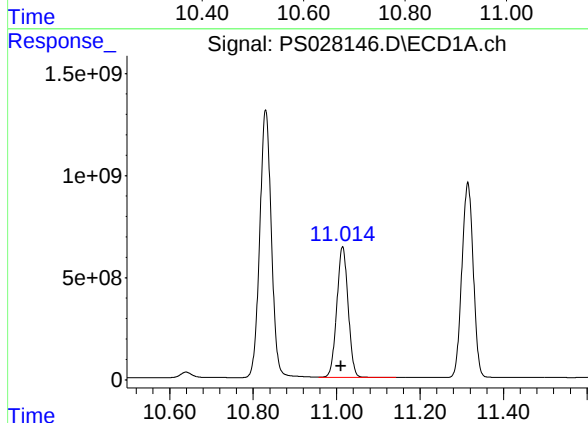
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



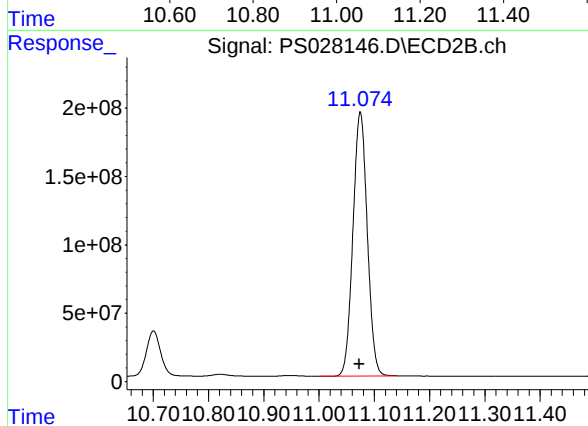
#13 2,4-DB

R.T.: 10.701 min
Delta R.T.: 0.001 min
Response: 591598394
Conc: 782.10 ng/ml



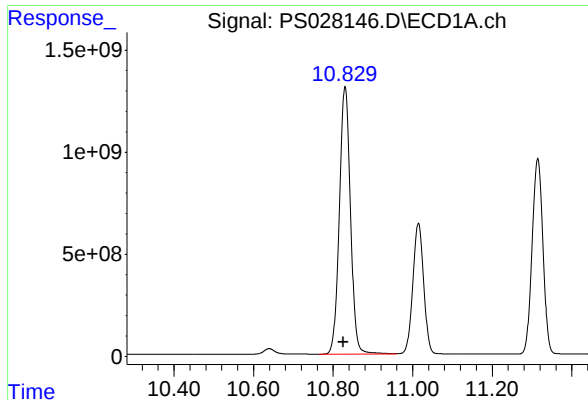
#14 DINOSEB

R.T.: 11.014 min
Delta R.T.: 0.005 min
Response: 12087999013
Conc: 732.98 ng/ml



#14 DINOSEB

R.T.: 11.075 min
Delta R.T.: 0.002 min
Response: 3477105389
Conc: 767.65 ng/ml



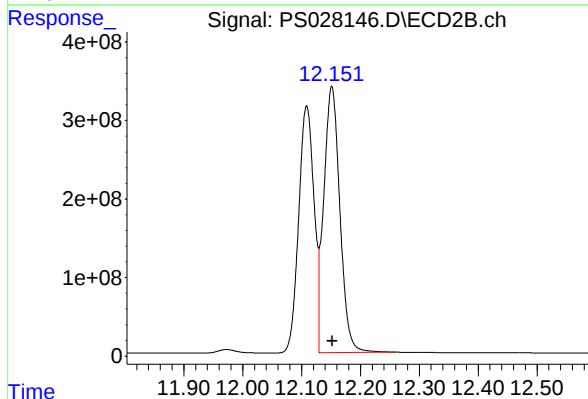
#15 Picloram

R.T.: 10.830 min
Delta R.T.: 0.004 min
Response: 25408725935
Conc: 736.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

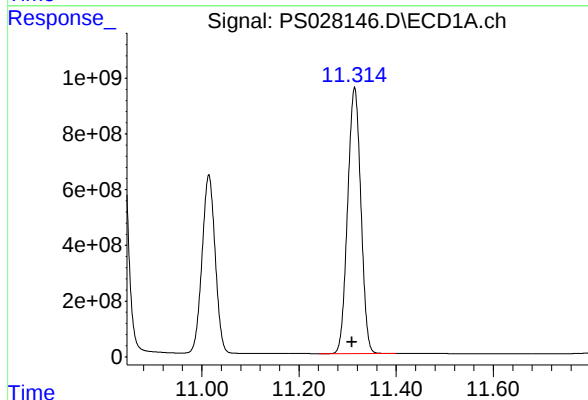
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



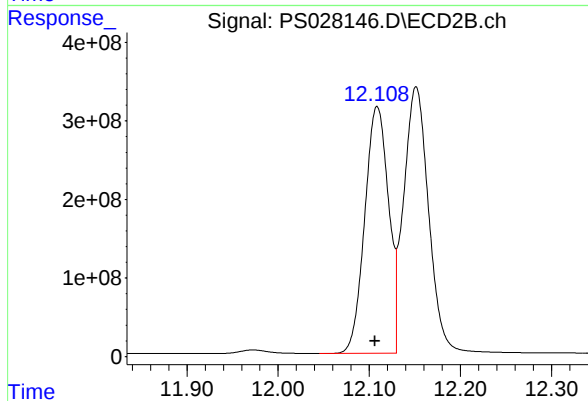
#15 Picloram

R.T.: 12.151 min
Delta R.T.: 0.000 min
Response: 6450100421
Conc: 779.40 ng/ml



#16 DCPA

R.T.: 11.314 min
Delta R.T.: 0.005 min
Response: 18021220029
Conc: 754.76 ng/ml



#16 DCPA

R.T.: 12.109 min
Delta R.T.: 0.002 min
Response: 5700818800
Conc: 809.96 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 11:19 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.24	7.24	7.14	7.34	0.00
2,4-DCAA	7.06	7.06	6.96	7.16	0.00
DICHLORPROP	7.92	7.92	7.82	8.02	0.00
2,4-D	8.15	8.14	8.04	8.24	-0.01
2,4,5-TP(Silvex)	9.00	8.99	8.89	9.09	0.00
2,4,5-T	9.28	9.28	9.18	9.38	0.00
2,4-DB	9.84	9.84	9.74	9.94	0.00
Dinoseb	11.01	11.01	10.91	11.11	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 11:19 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.79	7.80	7.70	7.90	0.01
2,4-DCAA	7.60	7.61	7.51	7.71	0.01
DICHLORPROP	8.50	8.50	8.40	8.60	0.00
2,4-D	8.82	8.83	8.73	8.93	0.01
2,4,5-TP(Silvex)	9.71	9.72	9.62	9.82	0.01
2,4,5-T	10.13	10.13	10.03	10.23	0.00
2,4-DB	10.69	10.70	10.60	10.80	0.01
Dinoseb	11.07	11.07	10.97	11.17	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL02 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028158.D Time Analyzed: 11:19

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.278	9.176	9.376	729.530	712.500	2.4
2,4,5-TP(Silvex)	8.995	8.893	9.093	732.950	712.500	2.9
2,4-D	8.145	8.042	8.242	713.800	705.000	1.2
2,4-DB	9.840	9.737	9.937	727.090	712.500	2.0
2,4-DCAA	7.064	6.962	7.162	744.700	750.000	-0.7
DICAMBA	7.242	7.140	7.340	713.720	705.000	1.2
DICHLORPROP	7.924	7.821	8.021	707.110	705.000	0.3
Dinoseb	11.013	10.910	11.110	711.050	705.000	0.9



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL02 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028158.D Time Analyzed: 11:19

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.128	10.034	10.234	772.730	712.500	8.5
2,4,5-TP(Silvex)	9.714	9.620	9.820	764.690	712.500	7.3
2,4-D	8.823	8.728	8.928	713.040	705.000	1.1
2,4-DB	10.691	10.597	10.797	785.870	712.500	10.3
2,4-DCAA	7.601	7.505	7.705	736.970	750.000	-1.7
DICAMBA	7.793	7.698	7.898	706.100	705.000	0.2
DICHLORPROP	8.499	8.404	8.604	713.950	705.000	1.3
Dinoseb	11.065	10.971	11.171	780.230	705.000	10.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
 Data File : PS028158.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 Nov 2024 11:19
 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: Nov 08 23:22:19 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:10:03 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	7.064	7.601	2330.0E6	736.3E6	744.695	736.973
Target Compounds						
1) T Dalapon	2.524	2.590	2891.7E6	1395.5E6	704.190	647.406
2) T 3,5-DICHL...	6.263	6.578	3230.8E6	1053.6E6	697.502	683.153
3) T 4-Nitroph...	6.859	7.136	1615.3E6	451.7E6	686.748	663.049
5) T DICAMBA	7.242	7.793	9769.2E6	3212.1E6	713.723	706.097
6) T MCPP	7.420	7.898	685.6E6	218.3E6	72.835	69.724
7) T MCPA	7.565	8.137	913.9E6	302.4E6	70.635	66.749
8) T DICHLORPROP	7.924	8.499	2405.1E6	780.8E6	707.105	713.948
9) T 2,4-D	8.145	8.823	2899.0E6	868.1E6	713.801	713.039
10) T Pentachlo...	8.430	9.334	37864.2E6	12392.6E6	770.130	746.894
11) T 2,4,5-TP ...	8.995	9.714	14933.1E6	4859.7E6	732.952	764.685
12) T 2,4,5-T	9.278	10.128	15814.3E6	4730.0E6	729.534	772.730
13) T 2,4-DB	9.840	10.691	2471.4E6	594.4E6	727.095	785.871
14) T DINOSEB	11.013	11.065	11726.3E6	3534.1E6	711.049	780.226
15) T Picloram	10.829	12.141	24640.4E6	6700.1E6	714.050	809.602
16) T DCPA	11.313	12.098	17582.3E6	5960.5E6	736.378	846.857

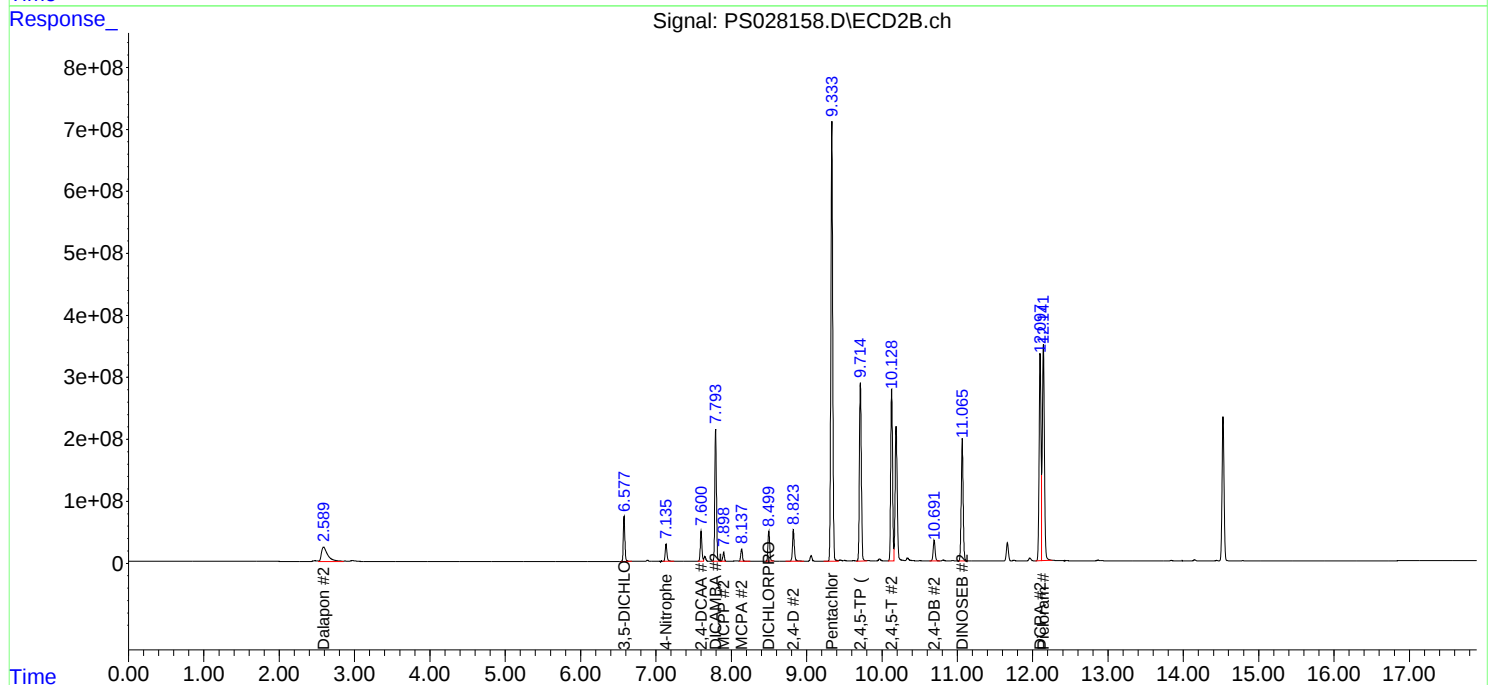
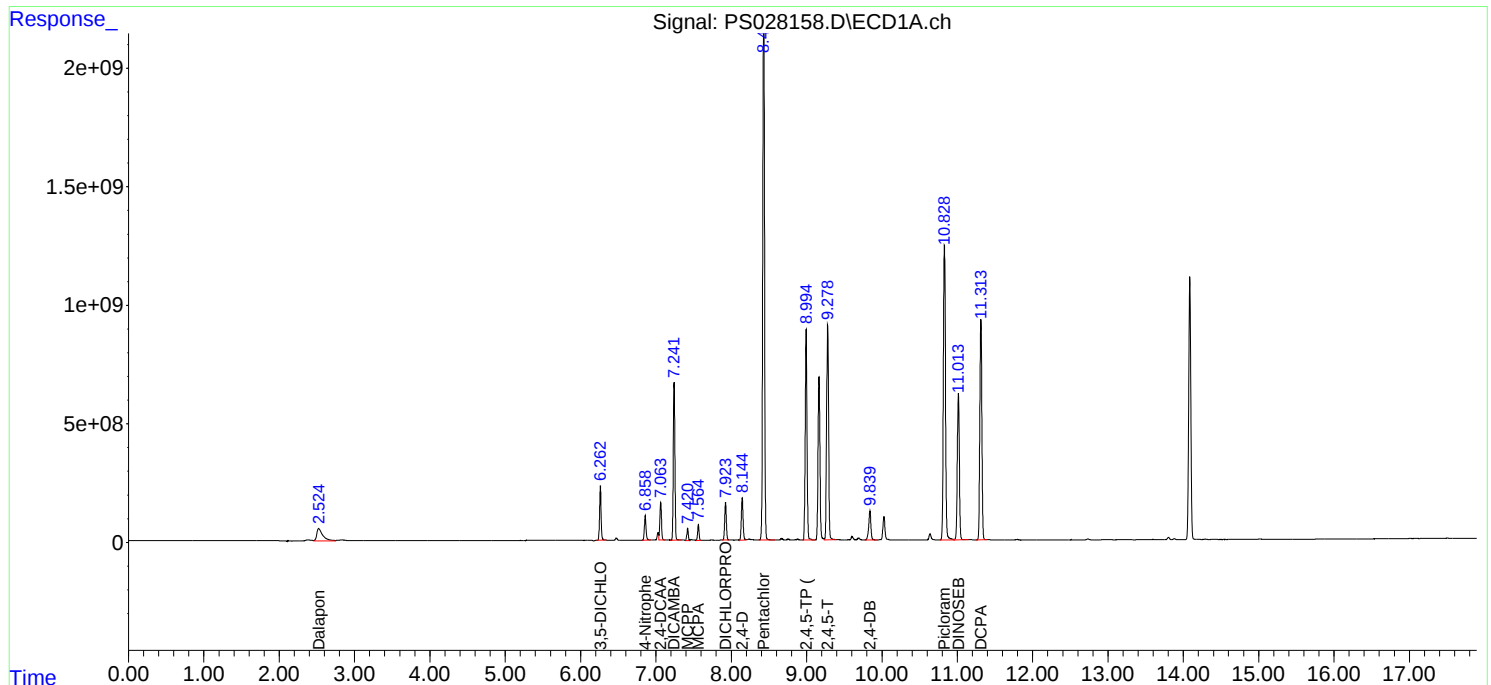
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

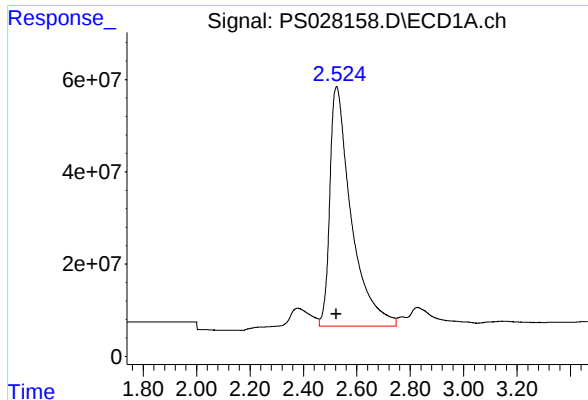
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028158.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 11:19
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 23:22:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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

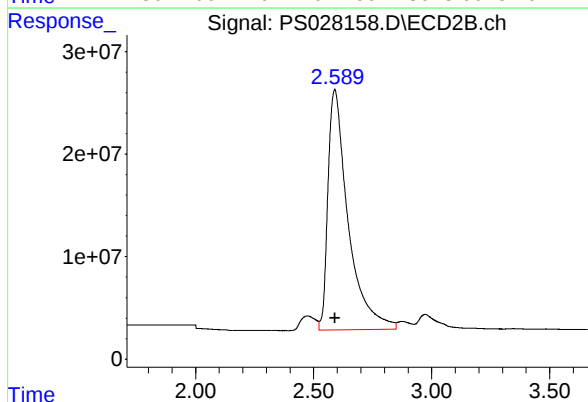




#1 Dalapon

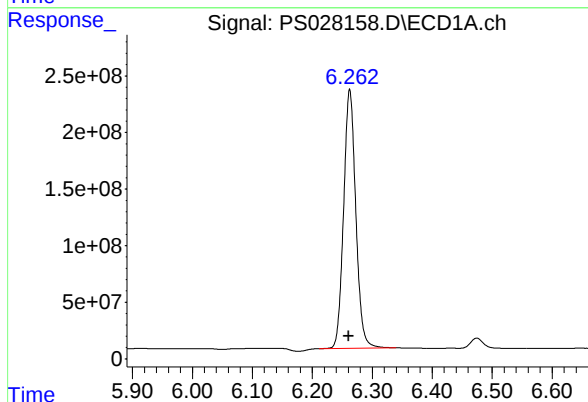
R.T.: 2.524 min
Delta R.T.: 0.000 min
Response: 2891733324
Conc: 704.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



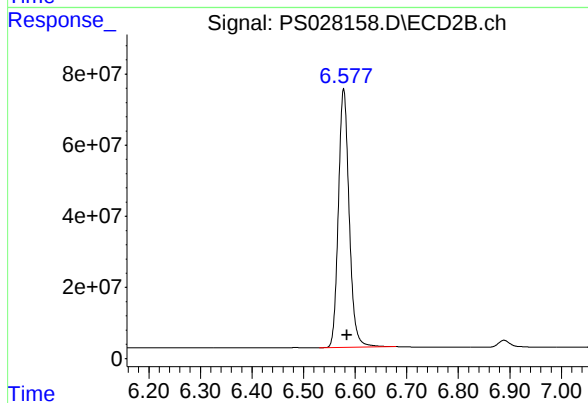
#1 Dalapon

R.T.: 2.590 min
Delta R.T.: -0.001 min
Response: 1395466327
Conc: 647.41 ng/ml



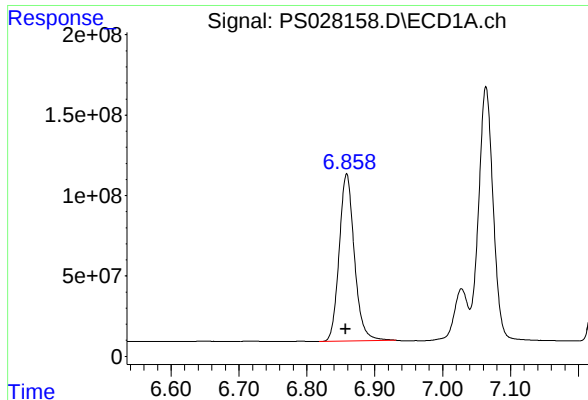
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.263 min
Delta R.T.: 0.002 min
Response: 3230753541
Conc: 697.50 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

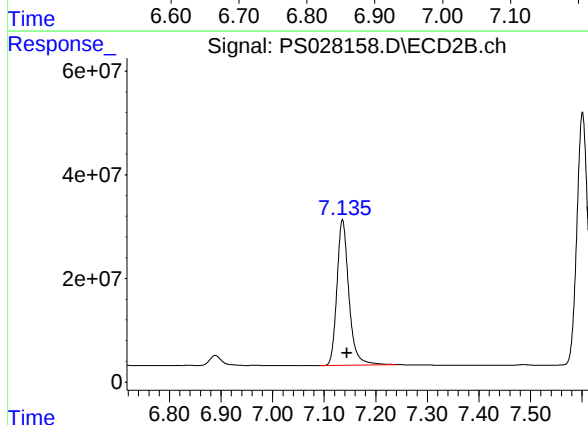
R.T.: 6.578 min
Delta R.T.: -0.006 min
Response: 1053609531
Conc: 683.15 ng/ml



#3 4-Nitrophenol

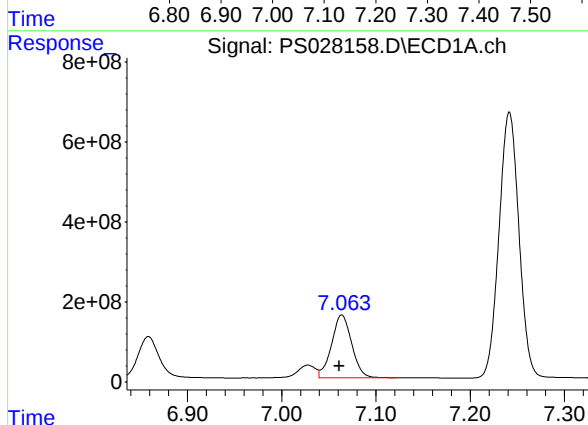
R.T.: 6.859 min
Delta R.T.: 0.002 min
Response: 1615318113
Conc: 686.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



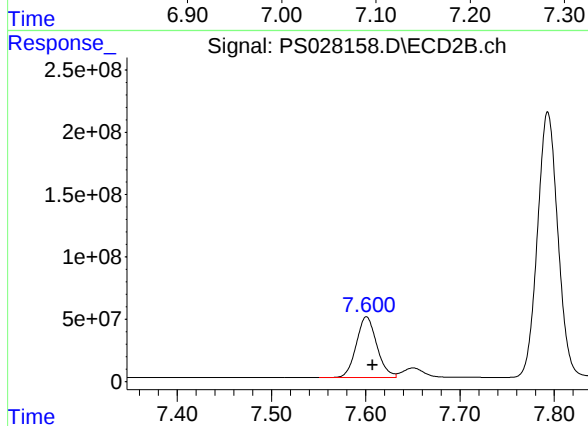
#3 4-Nitrophenol

R.T.: 7.136 min
Delta R.T.: -0.008 min
Response: 451714707
Conc: 663.05 ng/ml



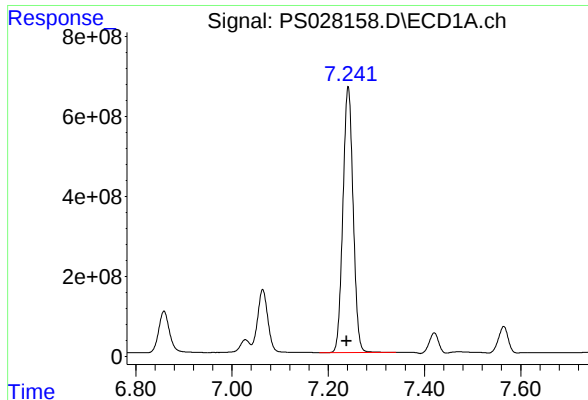
#4 2,4-DCAA

R.T.: 7.064 min
Delta R.T.: 0.003 min
Response: 2329961808
Conc: 744.70 ng/ml



#4 2,4-DCAA

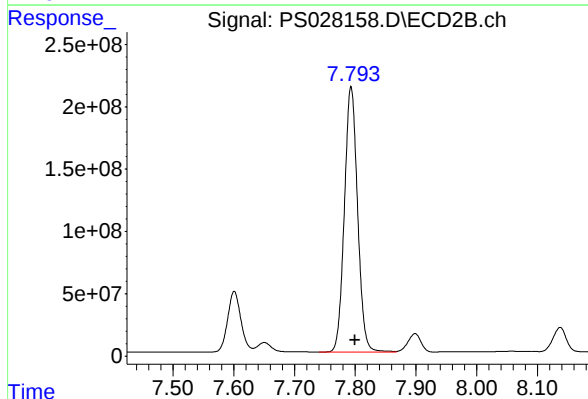
R.T.: 7.601 min
Delta R.T.: -0.006 min
Response: 736342684
Conc: 736.97 ng/ml



#5 DICAMBA

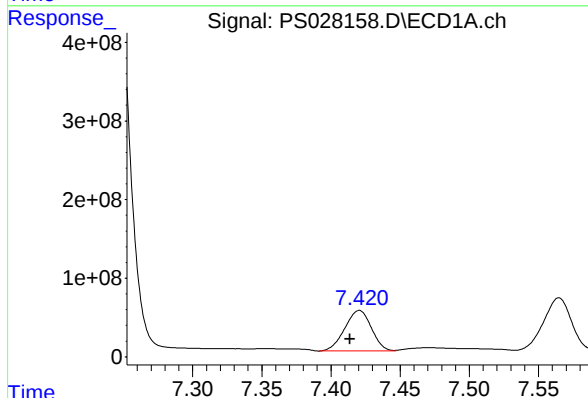
R.T.: 7.242 min
Delta R.T.: 0.003 min
Response: 9769236258
Conc: 713.72 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



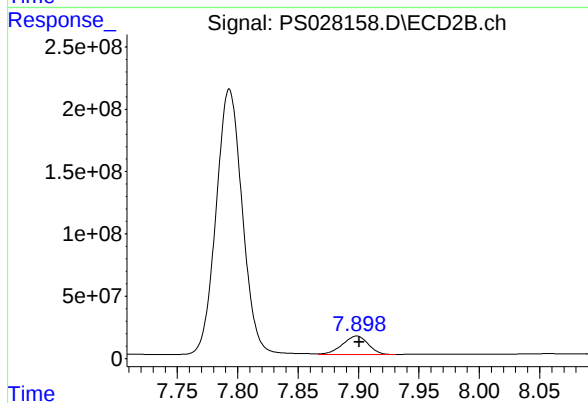
#5 DICAMBA

R.T.: 7.793 min
Delta R.T.: -0.006 min
Response: 3212071503
Conc: 706.10 ng/ml



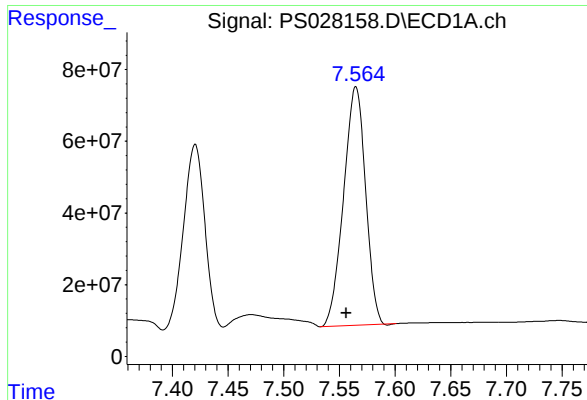
#6 MCPP

R.T.: 7.420 min
Delta R.T.: 0.007 min
Response: 685562130
Conc: 72.84 ug/ml



#6 MCPP

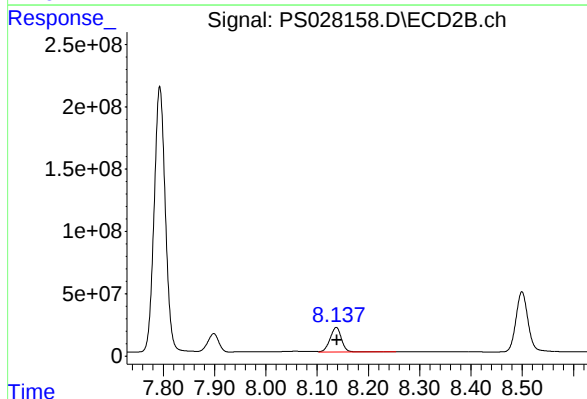
R.T.: 7.898 min
Delta R.T.: -0.002 min
Response: 218274022
Conc: 69.72 ug/ml



#7 MCPA

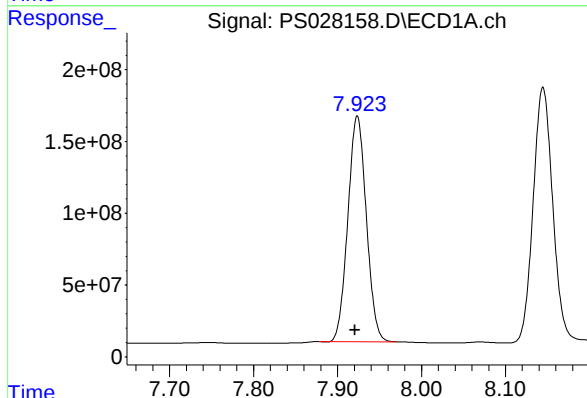
R.T.: 7.565 min
Delta R.T.: 0.008 min
Response: 913915805
Conc: 70.64 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



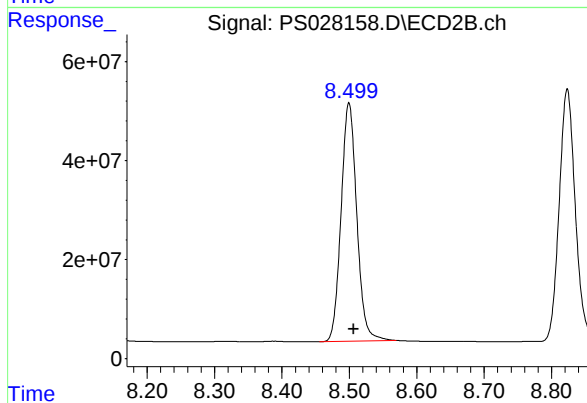
#7 MCPA

R.T.: 8.137 min
Delta R.T.: -0.002 min
Response: 302393865
Conc: 66.75 ug/ml



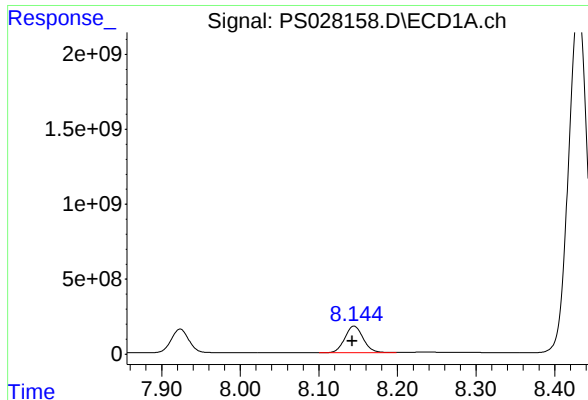
#8 DICHLORPROP

R.T.: 7.924 min
Delta R.T.: 0.003 min
Response: 2405083480
Conc: 707.11 ng/ml



#8 DICHLORPROP

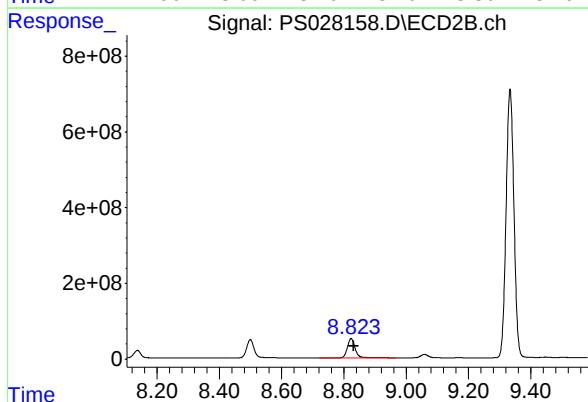
R.T.: 8.499 min
Delta R.T.: -0.007 min
Response: 780753341
Conc: 713.95 ng/ml



#9 2,4-D

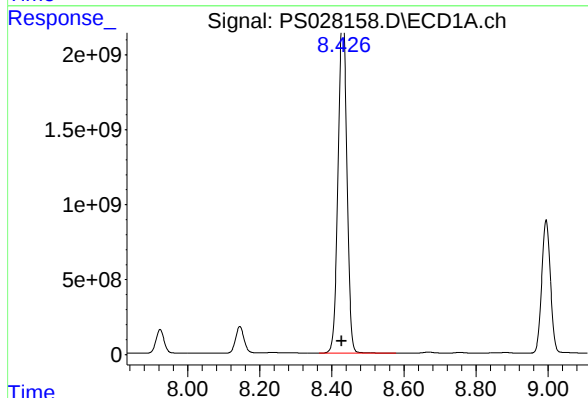
R.T.: 8.145 min
Delta R.T.: 0.002 min
Response: 2898982265
Conc: 713.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



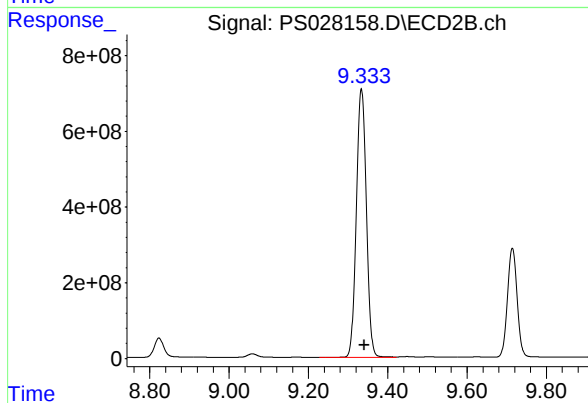
#9 2,4-D

R.T.: 8.823 min
Delta R.T.: -0.008 min
Response: 868133735
Conc: 713.04 ng/ml



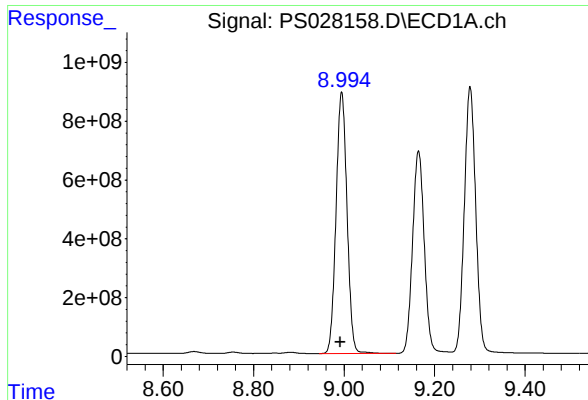
#10 Pentachlorophenol

R.T.: 8.430 min
Delta R.T.: 0.004 min
Response: 37864197020
Conc: 770.13 ng/ml



#10 Pentachlorophenol

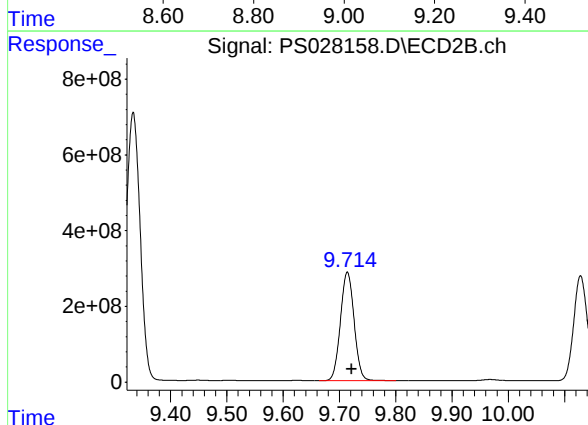
R.T.: 9.334 min
Delta R.T.: -0.007 min
Response: 12392556549
Conc: 746.89 ng/ml



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

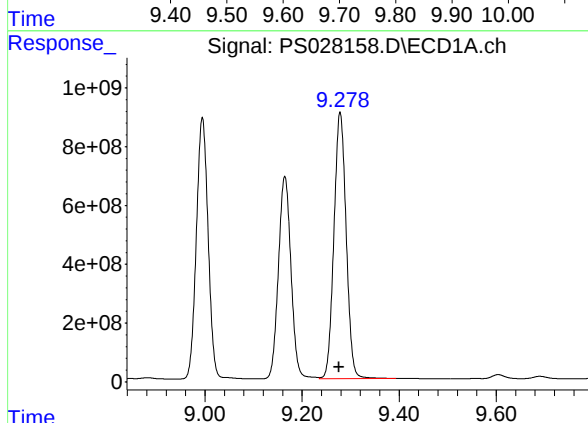
R.T.: 8.995 min
Delta R.T.: 0.003 min
Response: 14933078488
Conc: 732.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



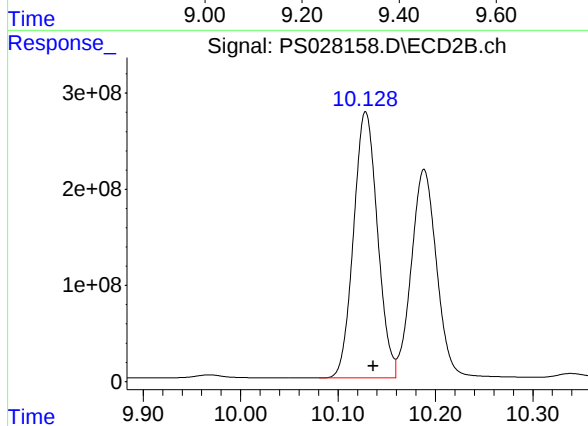
#11 2,4,5-TP (SILVEX)

R.T.: 9.714 min
Delta R.T.: -0.008 min
Response: 4859705068
Conc: 764.69 ng/ml



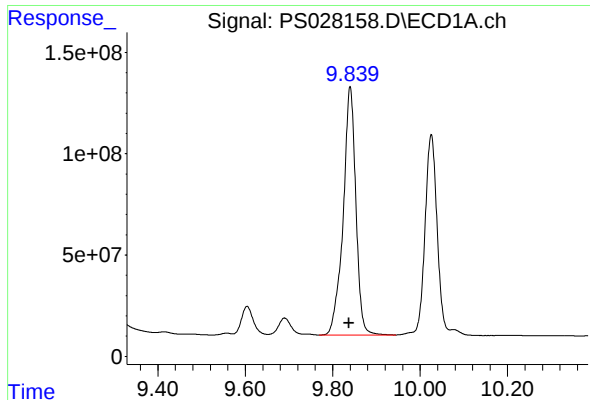
#12 2,4,5-T

R.T.: 9.278 min
Delta R.T.: 0.002 min
Response: 15814299035
Conc: 729.53 ng/ml



#12 2,4,5-T

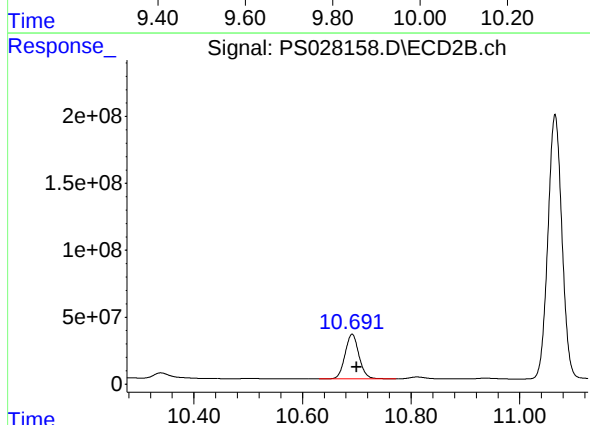
R.T.: 10.128 min
Delta R.T.: -0.008 min
Response: 4729978174
Conc: 772.73 ng/ml



#13 2,4-DB

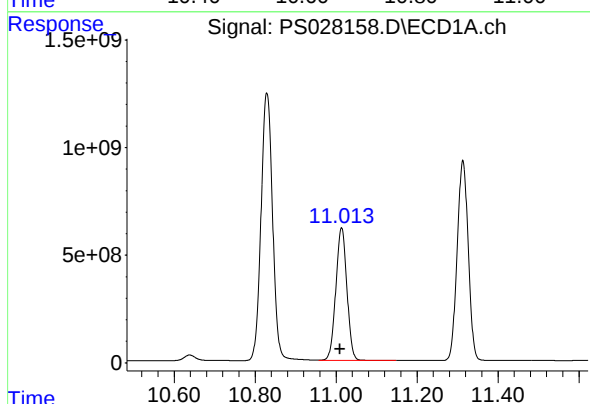
R.T.: 9.840 min
Delta R.T.: 0.003 min
Response: 2471372321
Conc: 727.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



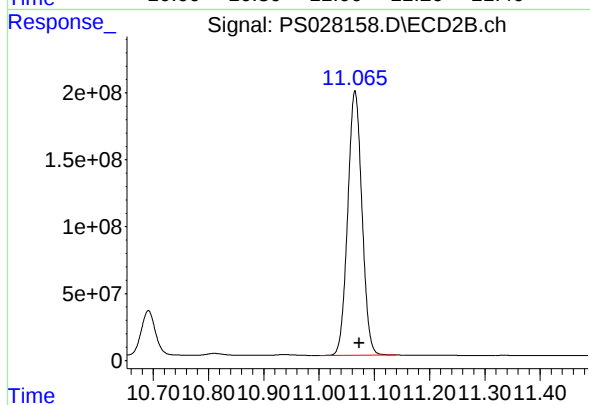
#13 2,4-DB

R.T.: 10.691 min
Delta R.T.: -0.008 min
Response: 594447901
Conc: 785.87 ng/ml



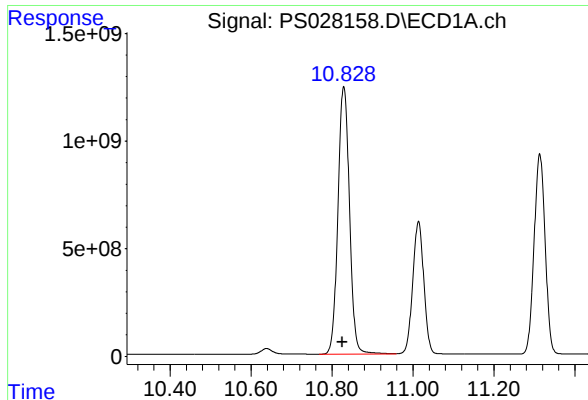
#14 DINOSEB

R.T.: 11.013 min
Delta R.T.: 0.004 min
Response: 11726250798
Conc: 711.05 ng/ml



#14 DINOSEB

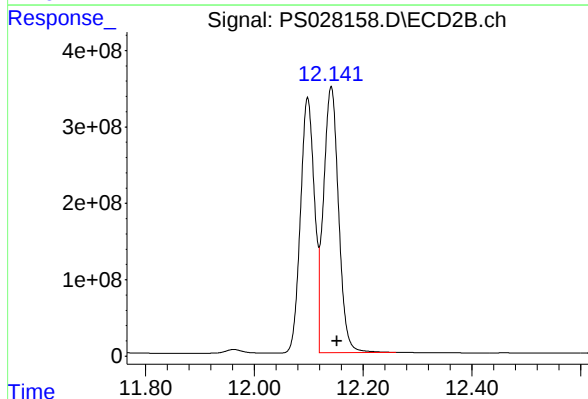
R.T.: 11.065 min
Delta R.T.: -0.008 min
Response: 3534060512
Conc: 780.23 ng/ml



#15 Picloram

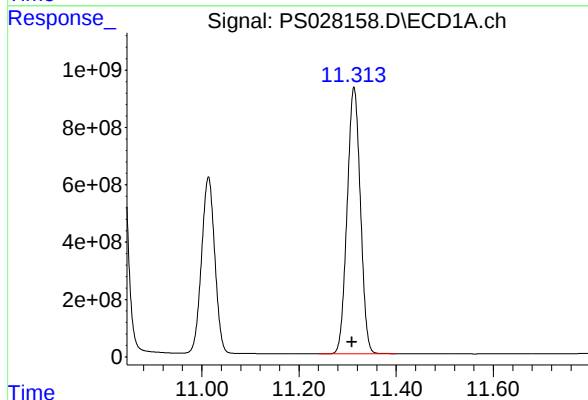
R.T.: 10.829 min
Delta R.T.: 0.003 min
Response: 24640361989
Conc: 714.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



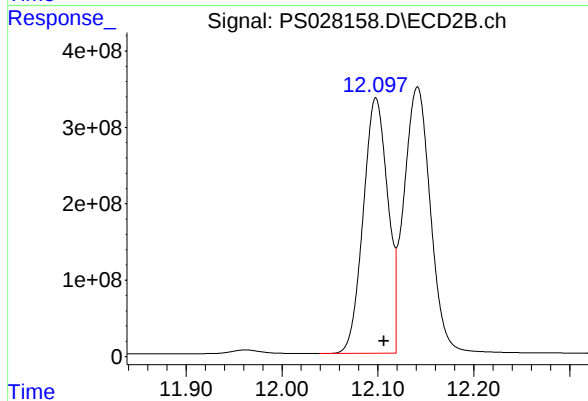
#15 Picloram

R.T.: 12.141 min
Delta R.T.: -0.011 min
Response: 6700050205
Conc: 809.60 ng/ml



#16 DCPA

R.T.: 11.313 min
Delta R.T.: 0.004 min
Response: 17582250963
Conc: 736.38 ng/ml



#16 DCPA

R.T.: 12.098 min
Delta R.T.: -0.008 min
Response: 5960536775
Conc: 846.86 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 15:20 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.24	7.24	7.14	7.34	0.00
2,4-DCAA	7.07	7.06	6.96	7.16	-0.01
DICHLORPROP	7.93	7.92	7.82	8.02	-0.01
2,4-D	8.15	8.14	8.04	8.24	-0.01
2,4,5-TP(Silvex)	9.00	8.99	8.89	9.09	-0.01
2,4,5-T	9.28	9.28	9.18	9.38	0.00
2,4-DB	9.84	9.84	9.74	9.94	0.00
Dinoseb	11.01	11.01	10.91	11.11	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 15:20 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.80	7.80	7.70	7.90	0.00
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
DICHLORPROP	8.51	8.50	8.40	8.60	-0.01
2,4-D	8.83	8.83	8.73	8.93	0.00
2,4,5-TP(Silvex)	9.72	9.72	9.62	9.82	0.00
2,4,5-T	10.14	10.13	10.03	10.23	-0.01
2,4-DB	10.70	10.70	10.60	10.80	0.00
Dinoseb	11.07	11.07	10.97	11.17	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL03 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028168.D Time Analyzed: 15:20

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.281	9.176	9.376	726.770	712.500	2.0
2,4,5-TP(Silvex)	8.997	8.893	9.093	731.040	712.500	2.6
2,4-D	8.146	8.042	8.242	715.850	705.000	1.5
2,4-DB	9.842	9.737	9.937	723.210	712.500	1.5
2,4-DCAA	7.065	6.962	7.162	745.580	750.000	-0.6
DICAMBA	7.243	7.140	7.340	711.910	705.000	1.0
DICHLORPROP	7.925	7.821	8.021	706.820	705.000	0.3
Dinoseb	11.014	10.910	11.110	701.750	705.000	-0.5



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL03 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028168.D Time Analyzed: 15:20

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.136	10.034	10.234	772.040	712.500	8.4
2,4,5-TP(Silvex)	9.722	9.620	9.820	767.910	712.500	7.8
2,4-D	8.831	8.728	8.928	709.660	705.000	0.7
2,4-DB	10.699	10.597	10.797	780.260	712.500	9.5
2,4-DCAA	7.607	7.505	7.705	738.420	750.000	-1.5
DICAMBA	7.800	7.698	7.898	708.500	705.000	0.5
DICHLORPROP	8.506	8.404	8.604	714.060	705.000	1.3
Dinoseb	11.073	10.971	11.171	756.300	705.000	7.3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
 Data File : PS028168.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 Nov 2024 15:20
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 11/04/2024

Supervised By :Ankita Jodhani 11/05/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 04 02:32:49 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:10:03 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	7.065	7.607	2332.7E6	737.8E6	745.579	738.417
Target Compounds						
1) T Dalapon	2.525	2.593	2872.4E6	1404.1E6	699.489	651.412
2) T 3,5-DICHL...	6.263	6.584	3252.4E6	1047.7E6	702.177	679.350
3) T 4-Nitroph...	6.860	7.142	1600.4E6	442.4E6	680.409	649.402
5) T DICAMBA	7.243	7.800	9744.4E6	3223.0E6	711.911	708.496
6) T MCPP	7.422	7.905	682.7E6	220.0E6	72.528	70.277
7) T MCPA	7.565	8.144	916.4E6	304.3E6	70.828	67.176
8) T DICHLORPROP	7.925	8.506	2404.1E6	780.9E6	706.825	714.056
9) T 2,4-D	8.146	8.831	2907.3E6	864.0E6	715.845	709.660
10) T Pentachlo...	8.431	9.342	37988.1E6	12361.2E6	772.651	745.004
11) T 2,4,5-TP ...	8.997	9.722	14894.2E6	4880.2E6	731.043	767.914
12) T 2,4,5-T	9.281	10.136	15754.5E6	4725.7E6	726.775	772.037
13) T 2,4-DB	9.842	10.699	2458.2E6	590.2E6	723.209	780.258
14) T DINOSEB	11.014	11.073	11572.8E6	3425.7E6	701.745	756.298
15) T Picloram	10.831	12.150	24236.2E6	6413.8E6	702.338	775.013
16) T DCPA	11.314	12.106	17592.7E6	5733.9E6	736.814	814.654m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028168.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 15:20
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

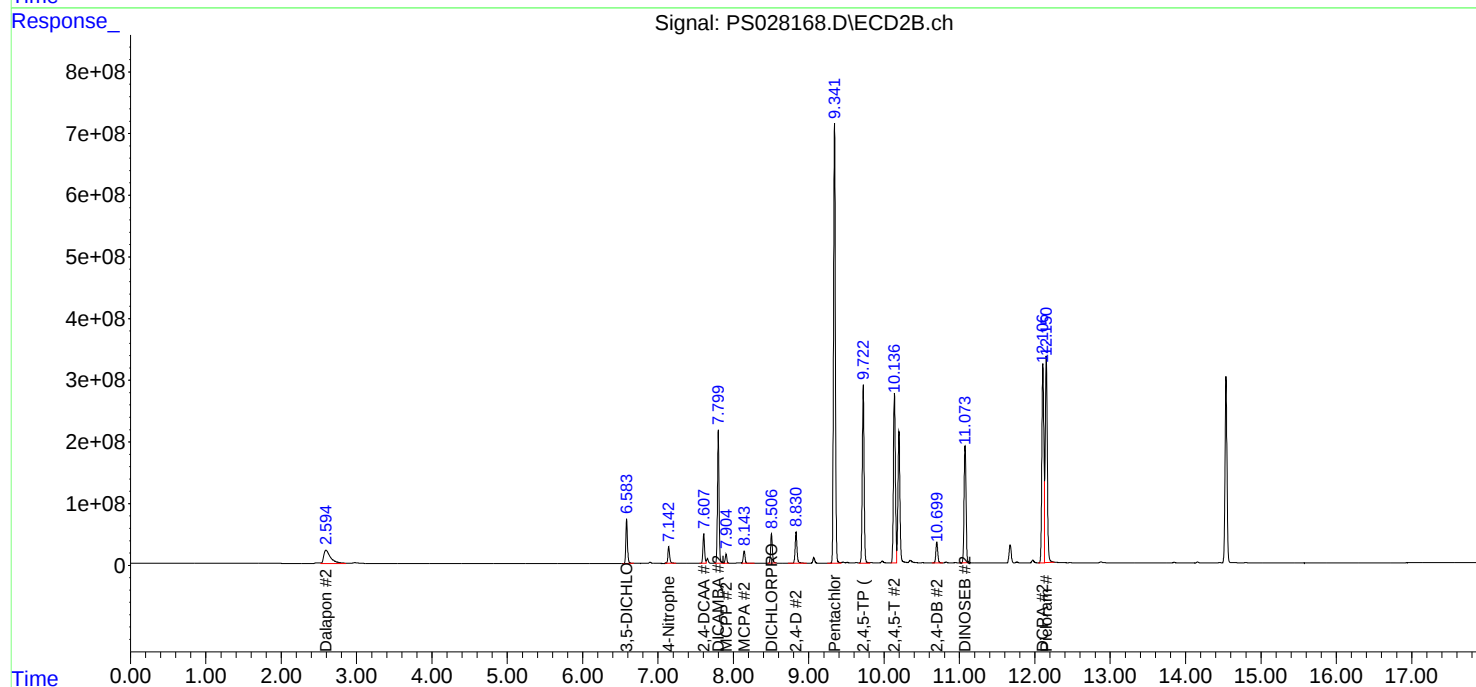
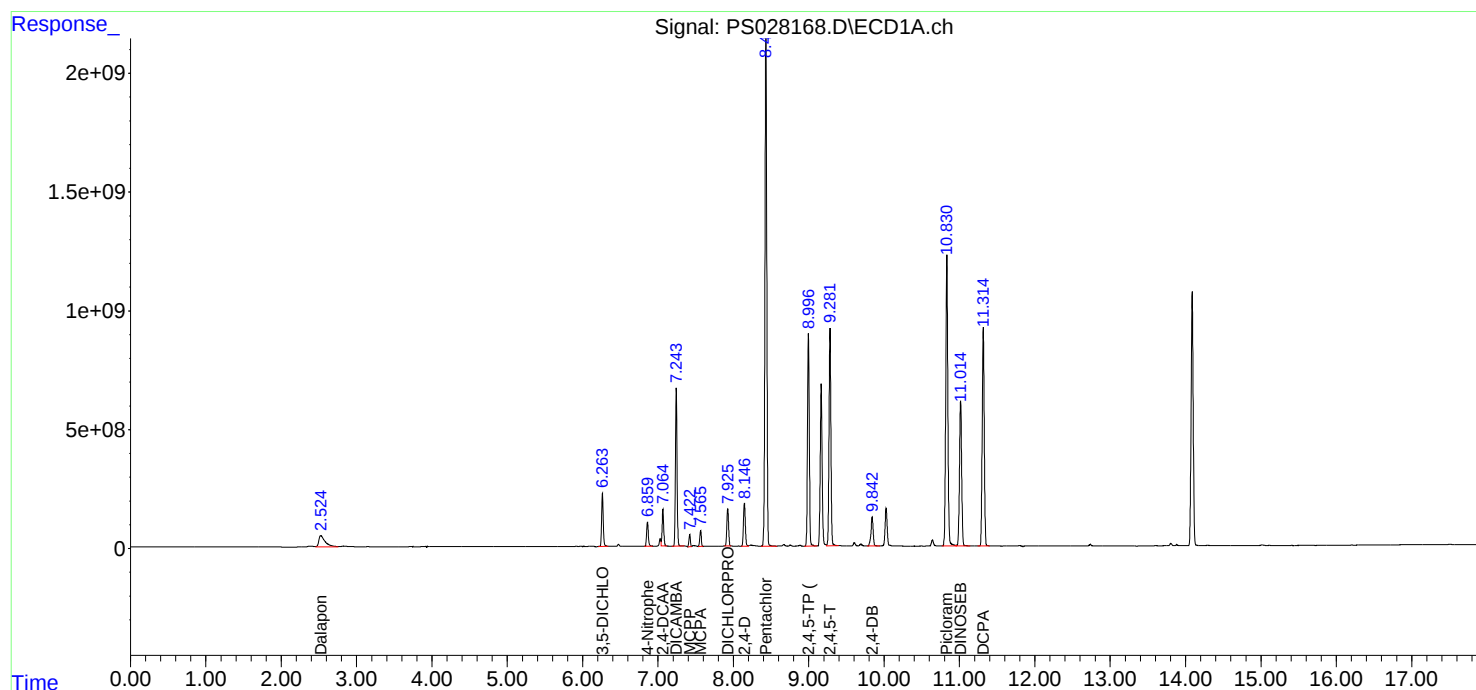
APPROVED

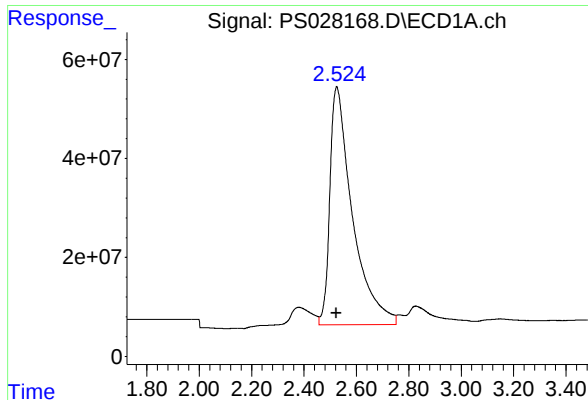
Reviewed By :Abdul Mirza 11/04/2024

Supervised By :Ankita Jodhani 11/05/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 02:32:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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.: 2.525 min
Delta R.T.: 0.000 min
Response: 2872427562
Conc: 699.49 ng/ml

Instrument :

ECD_S

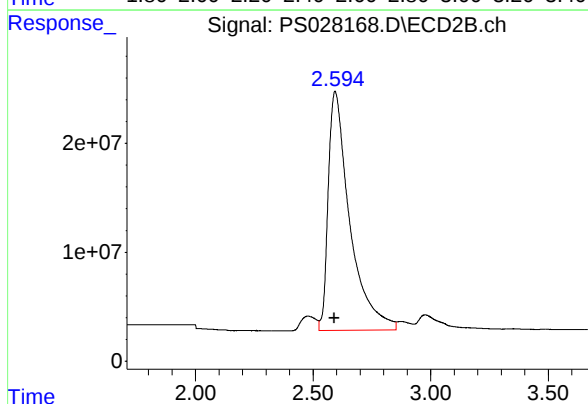
ClientSampleId :

HSTDCCC750

Manual Integrations

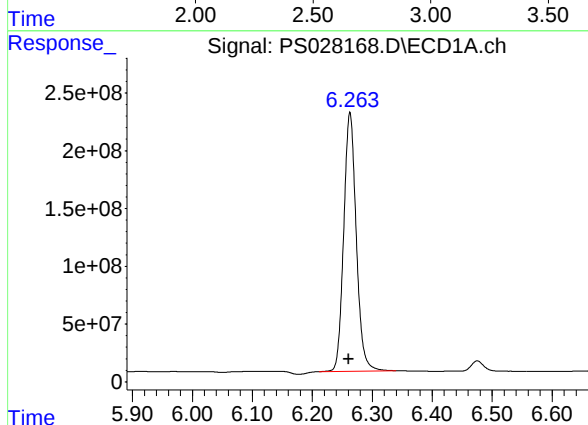
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/05/2024



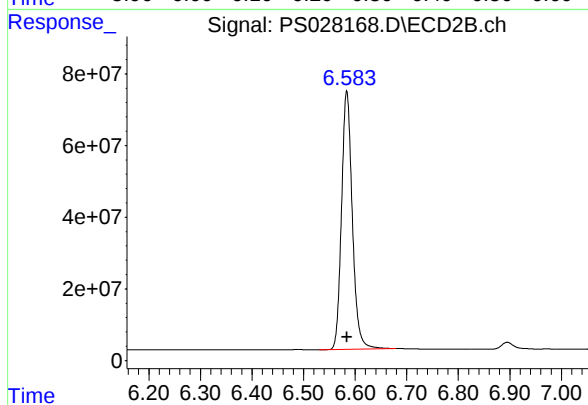
#1 Dalapon

R.T.: 2.593 min
Delta R.T.: 0.002 min
Response: 1404101641
Conc: 651.41 ng/ml



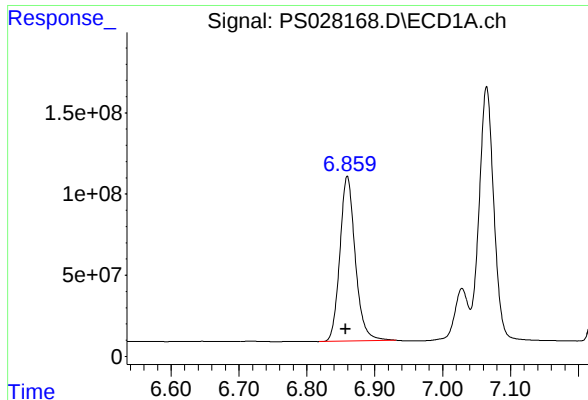
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.263 min
Delta R.T.: 0.003 min
Response: 3252407855
Conc: 702.18 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.584 min
Delta R.T.: 0.000 min
Response: 1047744379
Conc: 679.35 ng/ml



#3 4-Nitrophenol

R.T.: 6.860 min
Delta R.T.: 0.003 min
Response: 1600409238
Conc: 680.41 ng/ml

Instrument :

ECD_S

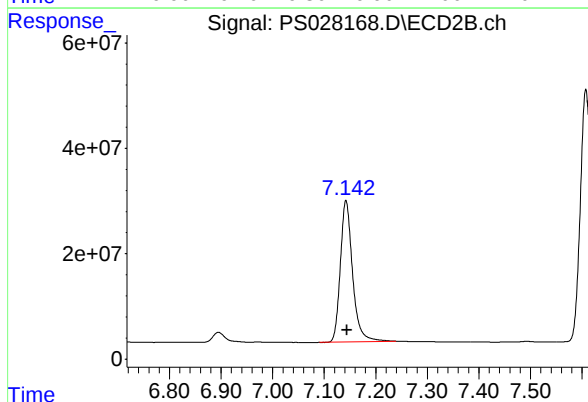
ClientSampleId :

HSTDCCC750

Manual Integrations

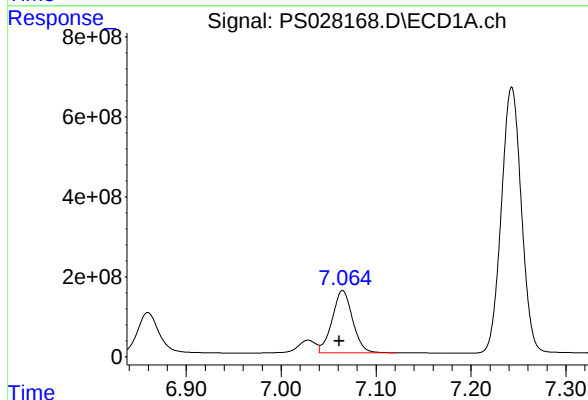
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/05/2024



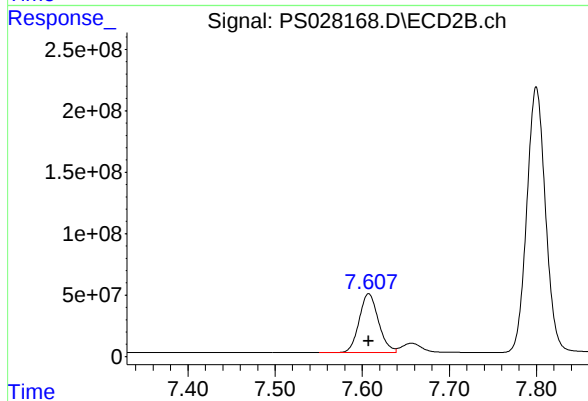
#3 4-Nitrophenol

R.T.: 7.142 min
Delta R.T.: -0.001 min
Response: 442417239
Conc: 649.40 ng/ml



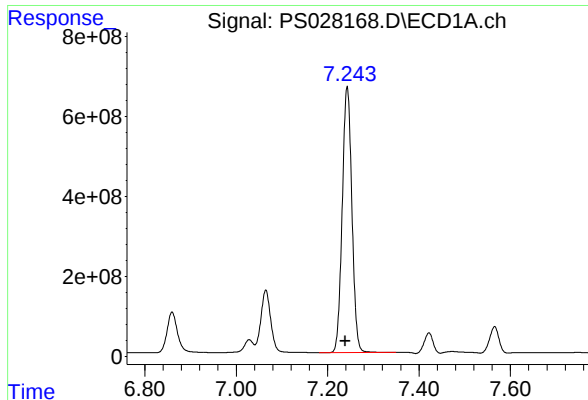
#4 2,4-DCAA

R.T.: 7.065 min
Delta R.T.: 0.004 min
Response: 2332727858
Conc: 745.58 ng/ml



#4 2,4-DCAA

R.T.: 7.607 min
Delta R.T.: 0.000 min
Response: 737785338
Conc: 738.42 ng/ml



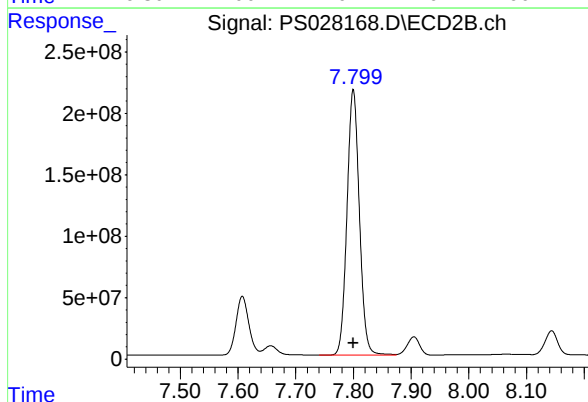
#5 DICAMBA

R.T.: 7.243 min
Delta R.T.: 0.004 min
Response: 9744435846
Conc: 711.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

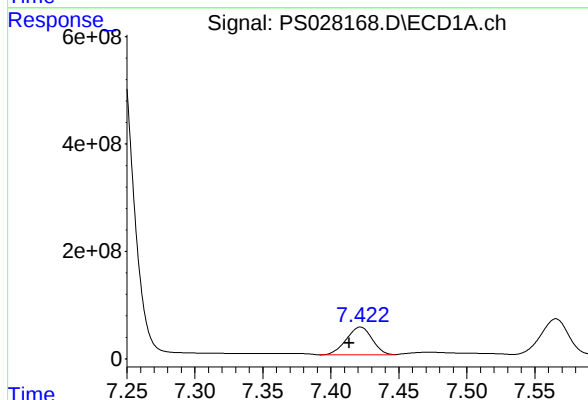
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/05/2024



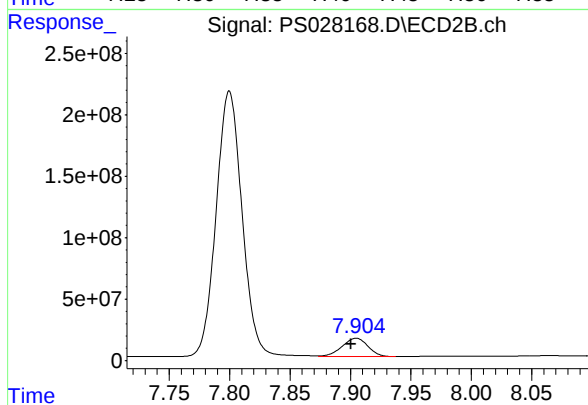
#5 DICAMBA

R.T.: 7.800 min
Delta R.T.: 0.000 min
Response: 3222981864
Conc: 708.50 ng/ml



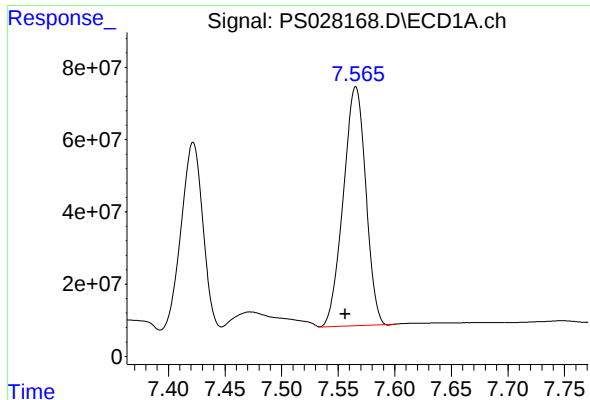
#6 MCP

R.T.: 7.422 min
Delta R.T.: 0.008 min
Response: 682670229
Conc: 72.53 ug/ml



#6 MCP

R.T.: 7.905 min
Delta R.T.: 0.004 min
Response: 220005684
Conc: 70.28 ug/ml



#7 MCPA

R.T.: 7.565 min
Delta R.T.: 0.009 min
Response: 916412641
Conc: 70.83 ug/ml

Instrument :

ECD_S

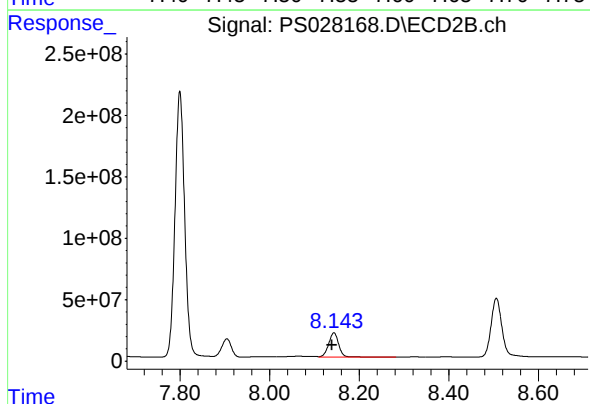
ClientSampleId :

HSTDCCC750

Manual Integrations

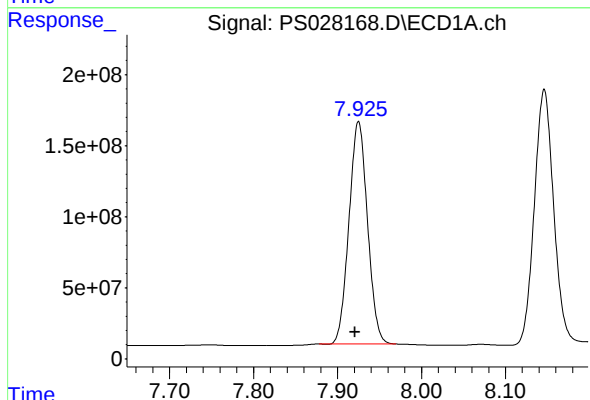
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/05/2024



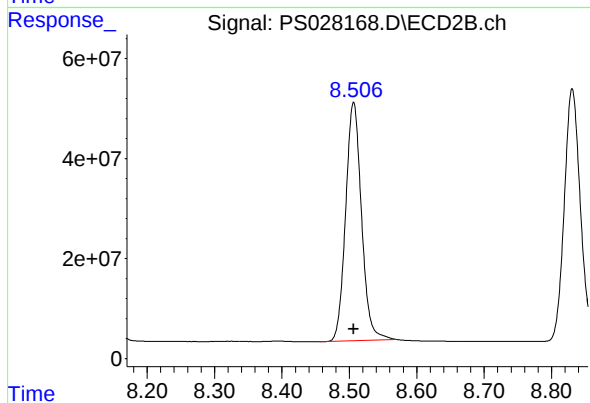
#7 MCPA

R.T.: 8.144 min
Delta R.T.: 0.005 min
Response: 304330430
Conc: 67.18 ug/ml



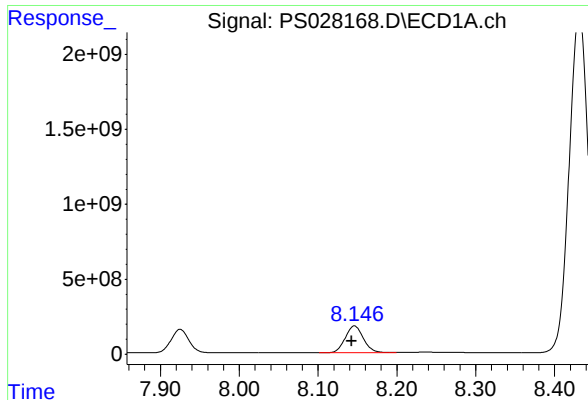
#8 DICHLORPROP

R.T.: 7.925 min
Delta R.T.: 0.004 min
Response: 2404129115
Conc: 706.82 ng/ml



#8 DICHLORPROP

R.T.: 8.506 min
Delta R.T.: 0.000 min
Response: 780871850
Conc: 714.06 ng/ml



#9 2,4-D

R.T.: 8.146 min
Delta R.T.: 0.003 min
Response: 2907286258
Conc: 715.85 ng/ml

Instrument :

ECD_S

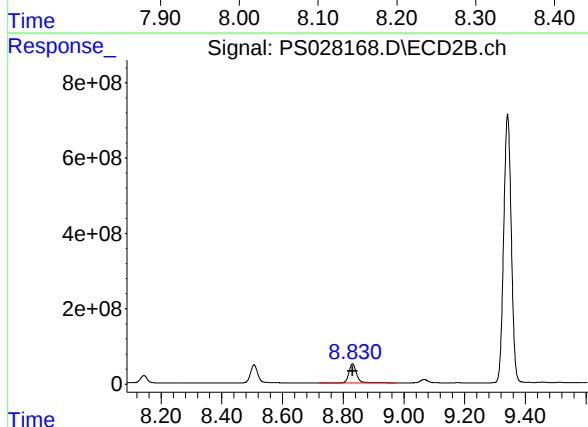
ClientSampleId :

HSTDCCC750

Manual Integrations

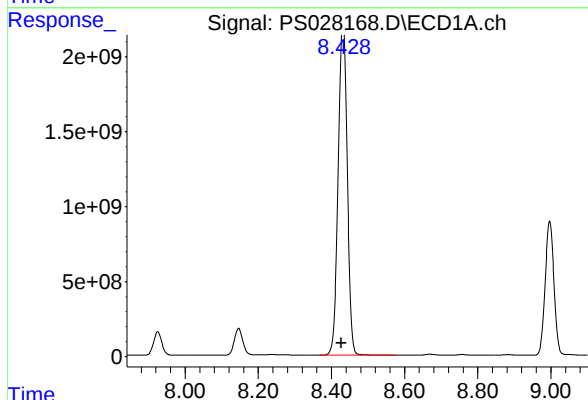
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/05/2024



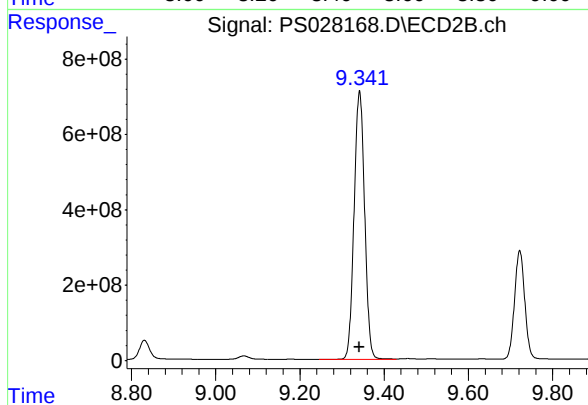
#9 2,4-D

R.T.: 8.831 min
Delta R.T.: 0.000 min
Response: 864019489
Conc: 709.66 ng/ml



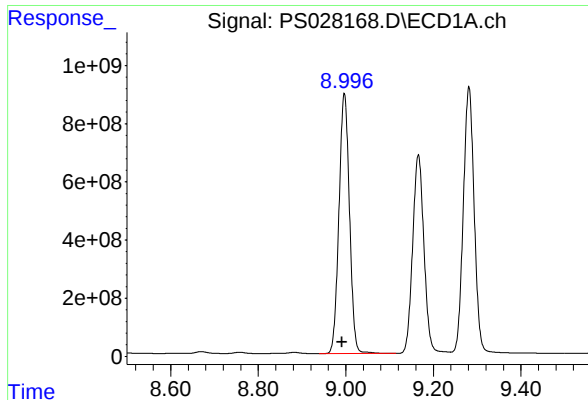
#10 Pentachlorophenol

R.T.: 8.431 min
Delta R.T.: 0.005 min
Response: 37988126362
Conc: 772.65 ng/ml



#10 Pentachlorophenol

R.T.: 9.342 min
Delta R.T.: 0.000 min
Response: 12361196867
Conc: 745.00 ng/ml



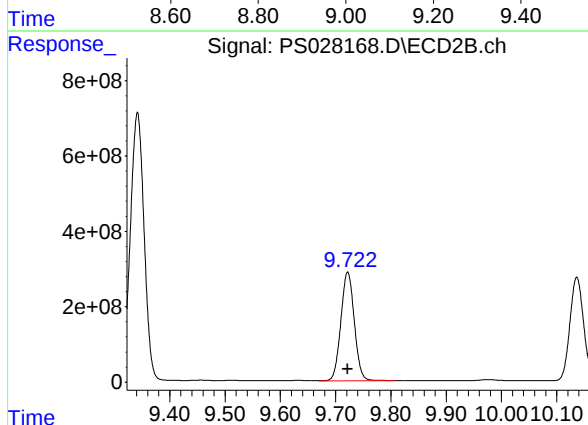
#11 2,4,5-TP (SILVEX)

R.T.: 8.997 min
Delta R.T.: 0.005 min
Response: 14894173593
Conc: 731.04 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

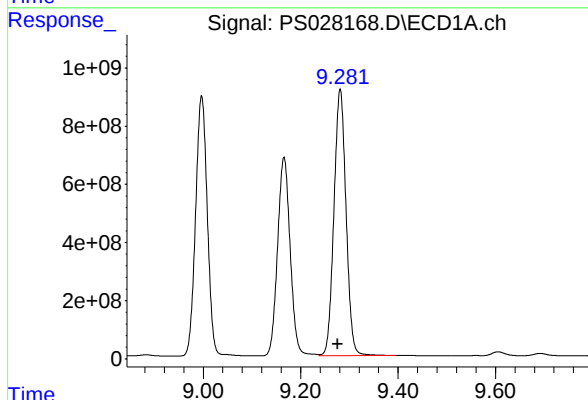
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/05/2024



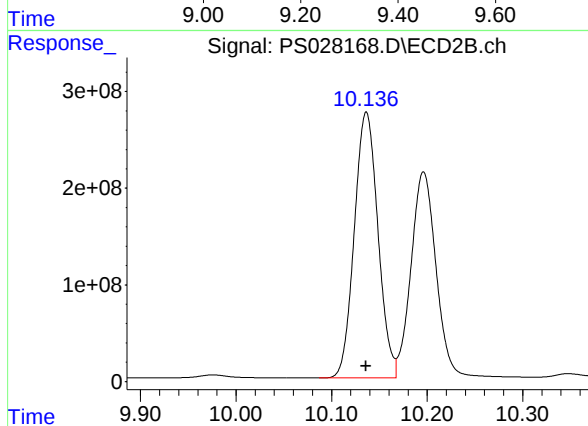
#11 2,4,5-TP (SILVEX)

R.T.: 9.722 min
Delta R.T.: 0.000 min
Response: 4880221641
Conc: 767.91 ng/ml



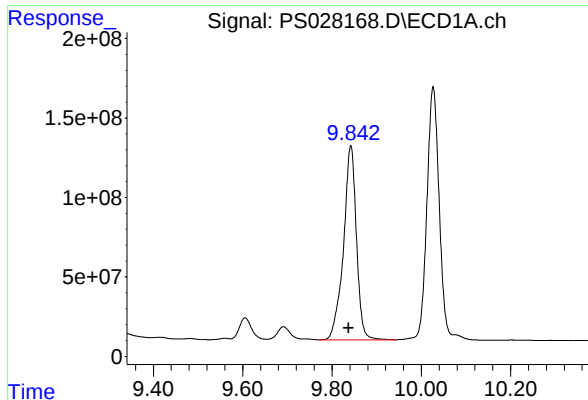
#12 2,4,5-T

R.T.: 9.281 min
Delta R.T.: 0.005 min
Response: 15754478949
Conc: 726.77 ng/ml



#12 2,4,5-T

R.T.: 10.136 min
Delta R.T.: 0.000 min
Response: 4725738056
Conc: 772.04 ng/ml



#13 2,4-DB

R.T.: 9.842 min
Delta R.T.: 0.005 min
Response: 2458165853
Conc: 723.21 ng/ml

Instrument :

ECD_S

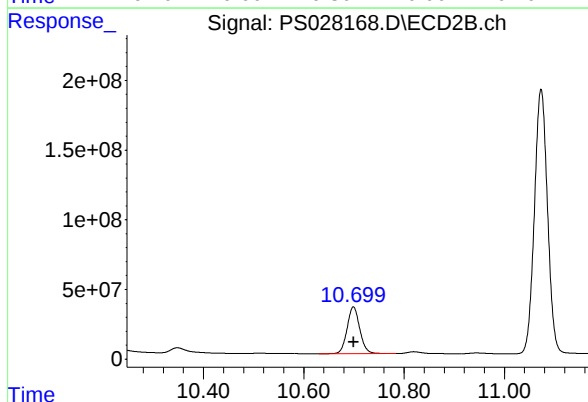
ClientSampleId :

HSTDCCC750

Manual Integrations

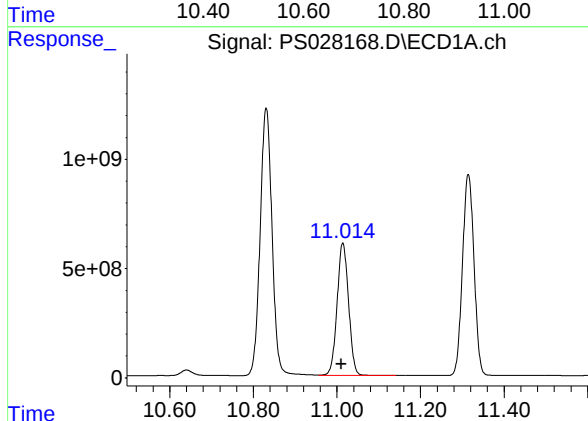
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/05/2024



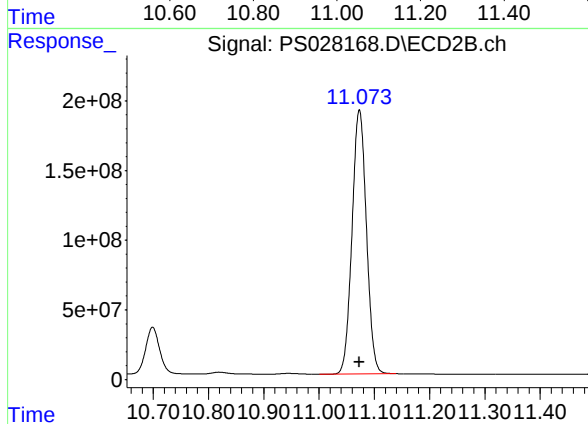
#13 2,4-DB

R.T.: 10.699 min
Delta R.T.: 0.000 min
Response: 590201545
Conc: 780.26 ng/ml



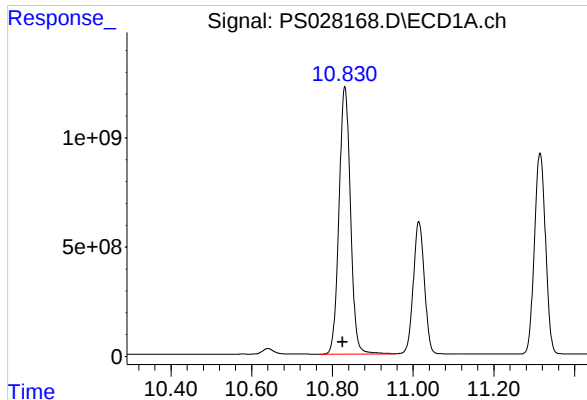
#14 DINOSEB

R.T.: 11.014 min
Delta R.T.: 0.004 min
Response: 11572815019
Conc: 701.75 ng/ml



#14 DINOSEB

R.T.: 11.073 min
Delta R.T.: 0.000 min
Response: 3425676141
Conc: 756.30 ng/ml



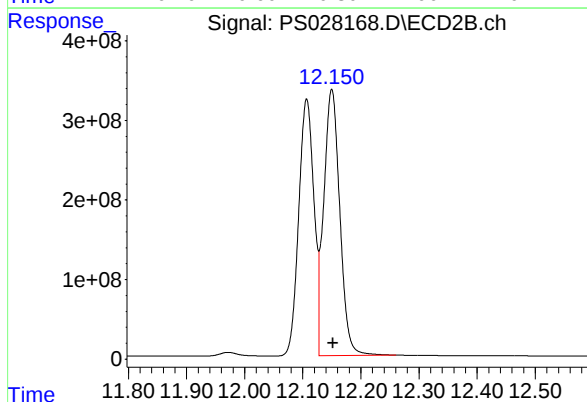
#15 Picloram

R.T.: 10.831 min
Delta R.T.: 0.005 min
Response: 24236207604
Conc: 702.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

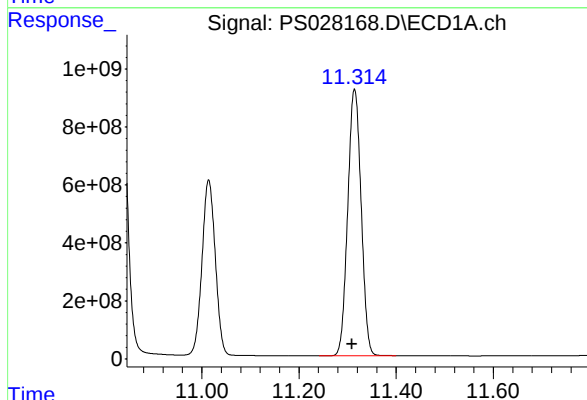
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/05/2024



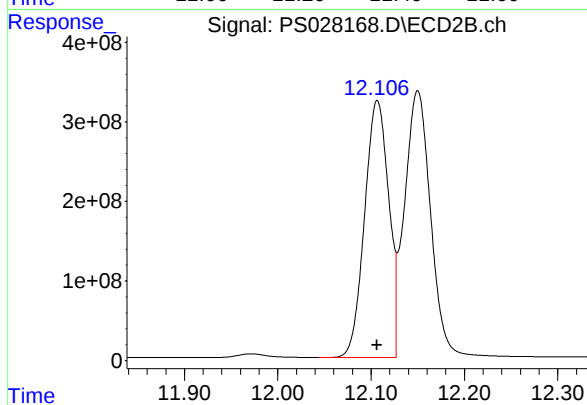
#15 Picloram

R.T.: 12.150 min
Delta R.T.: -0.002 min
Response: 6413798279
Conc: 775.01 ng/ml



#16 DCPA

R.T.: 11.314 min
Delta R.T.: 0.005 min
Response: 17592656745
Conc: 736.81 ng/ml



#16 DCPA

R.T.: 12.106 min
Delta R.T.: 0.000 min
Response: 5733877271
Conc: 814.65 ng/ml m



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

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

Continuing Calib Time: 23:03 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.45	7.45	7.35	7.55	0.00
2,4-DCAA	7.26	7.26	7.16	7.36	0.00
DICHLORPROP	8.16	8.16	8.06	8.26	0.00
2,4-D	8.39	8.39	8.29	8.49	0.00
2,4,5-TP(Silvex)	9.27	9.28	9.18	9.38	0.01
2,4,5-T	9.57	9.57	9.47	9.67	0.00
2,4-DB	10.14	10.15	10.05	10.25	0.01
Dinoseb	11.36	11.36	11.26	11.46	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

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

Continuing Calib Time: 23:03 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.96	7.97	7.87	8.07	0.01
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
DICHLORPROP	8.68	8.68	8.58	8.78	0.00
2,4-D	9.01	9.02	8.92	9.12	0.01
2,4,5-TP(Silvex)	9.92	9.92	9.82	10.02	0.00
2,4,5-T	10.34	10.34	10.24	10.44	0.00
2,4-DB	10.91	10.91	10.81	11.01	0.00
Dinoseb	11.29	11.29	11.19	11.39	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL04 Date Analyzed: 11/06/2024

Lab Sample No.: HSTDCCC750 Data File : PS028284.D Time Analyzed: 23:03

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.567	9.469	9.669	767.920	712.500	7.8
2,4,5-TP(Silvex)	9.274	9.177	9.377	764.460	712.500	7.3
2,4-D	8.391	8.294	8.494	746.130	705.000	5.8
2,4-DB	10.144	10.047	10.247	761.720	712.500	6.9
2,4-DCAA	7.260	7.162	7.362	788.410	750.000	5.1
DICAMBA	7.449	7.351	7.551	747.530	705.000	6.0
DICHLORPROP	8.160	8.063	8.263	745.000	705.000	5.7
Dinoseb	11.361	11.264	11.464	760.470	705.000	7.9



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL04 Date Analyzed: 11/06/2024

Lab Sample No.: HSTDCCC750 Data File : PS028284.D Time Analyzed: 23:03

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.342	10.244	10.444	716.510	712.500	0.6
2,4,5-TP(Silvex)	9.921	9.823	10.023	729.370	712.500	2.4
2,4-D	9.013	8.915	9.115	714.340	705.000	1.3
2,4-DB	10.909	10.812	11.012	703.300	712.500	-1.3
2,4-DCAA	7.763	7.665	7.865	773.710	750.000	3.2
DICAMBA	7.964	7.867	8.067	747.660	705.000	6.1
DICHLORPROP	8.682	8.584	8.784	725.580	705.000	2.9
Dinoseb	11.290	11.191	11.391	697.660	705.000	-1.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028284.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 23:03
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 07 00:45:43 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.260	7.763	2019.5E6	1347.6E6	788.414	773.706
Target Compounds							
1) T	Dalapon	2.655	2.712	2504.9E6	2001.4E6	703.776	680.185
2) T	3,5-DICHL...	6.428	6.713	2706.0E6	1850.3E6	721.824	731.101m
3) T	4-Nitroph...	7.059	7.289	1173.4E6	770.0E6	712.201	671.950
5) T	DICAMBA	7.449	7.964	8393.7E6	6005.6E6	747.535	747.660
6) T	MCPD	7.633	8.067	583.8E6	466.5E6	76.990	76.830
7) T	MCPA	7.784	8.313	777.8E6	615.1E6	74.706	73.760
8) T	DICHLORPROP	8.160	8.682	2100.4E6	1457.9E6	744.998	725.581
9) T	2,4-D	8.391	9.013	2354.9E6	1593.1E6	746.131	714.339
10) T	Pentachlo...	8.691	9.544	32738.7E6	21186.7E6	787.696	726.450
11) T	2,4,5-TP ...	9.274	9.921	13015.3E6	9075.3E6	764.456	729.366
12) T	2,4,5-T	9.567	10.342	13312.3E6	8789.3E6	767.923	716.514
13) T	2,4-DB	10.144	10.909	2153.0E6	1114.7E6	761.723	703.302
14) T	DINOSEB	11.361	11.290	10995.5E6	6084.8E6	760.465	697.664
15) T	Picloram	11.165	12.390	22106.0E6	12661.0E6	762.304	702.132
16) T	DCPA	11.654	12.337	18523.1E6	9888.2E6	779.616	705.774

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028284.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 23:03
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

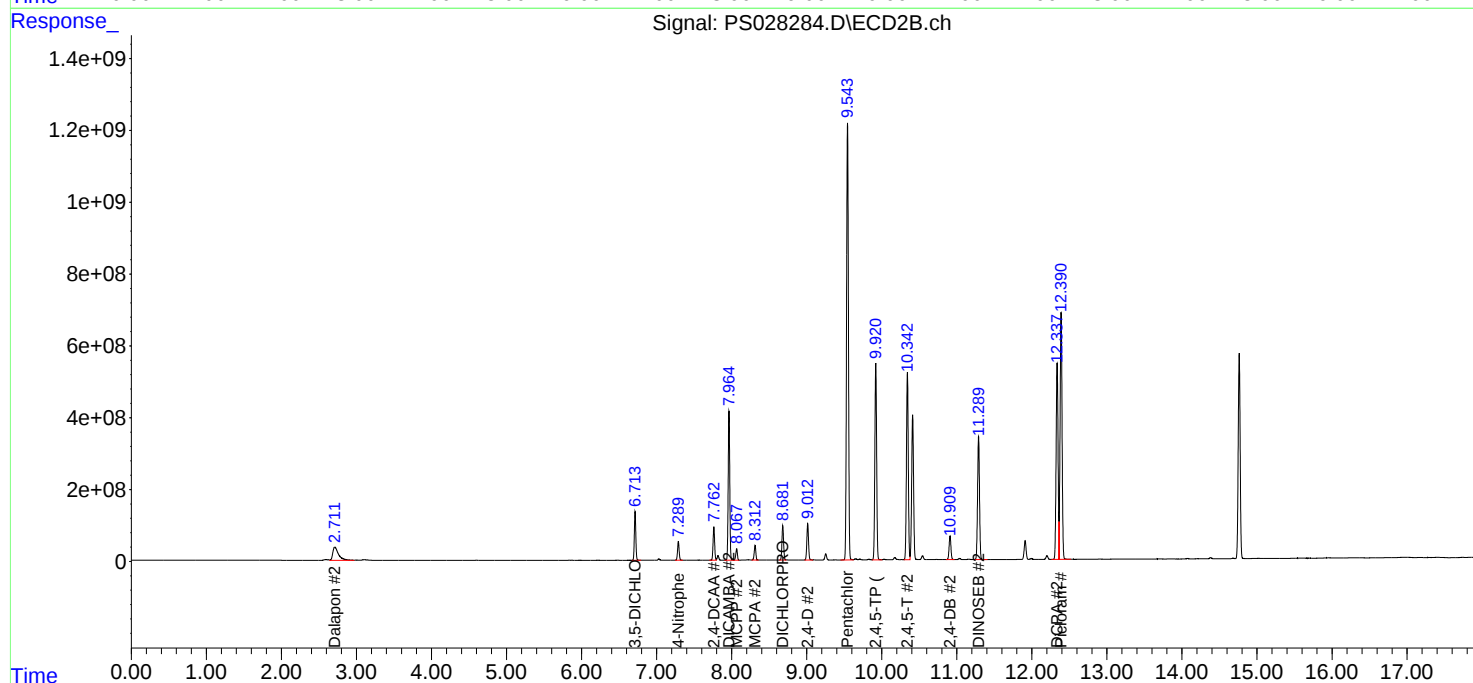
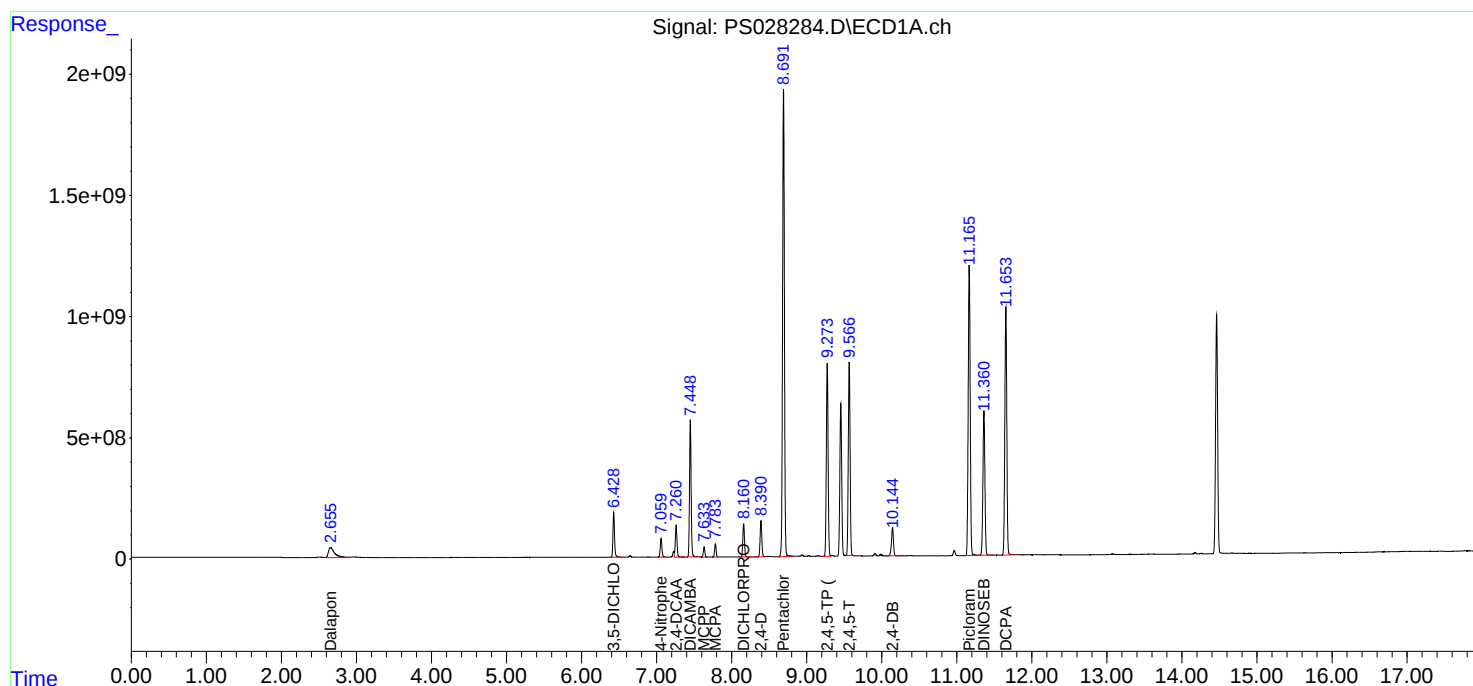
APPROVED

Reviewed By :Abdul Mirza 11/08/2024

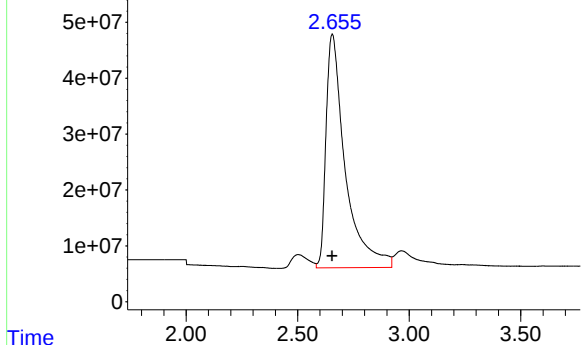
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:45:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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: PS028284.D\ECD1A.ch



#1 Dalapon

R.T.: 2.655 min
Delta R.T.: 0.001 min
Response: 2504871778
Conc: 703.78 ng/ml

Instrument :

ECD_S

ClientSampleId :

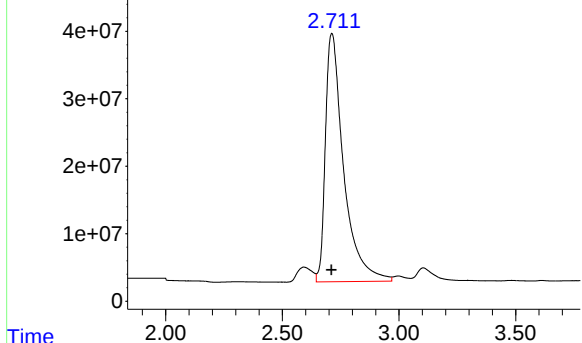
HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

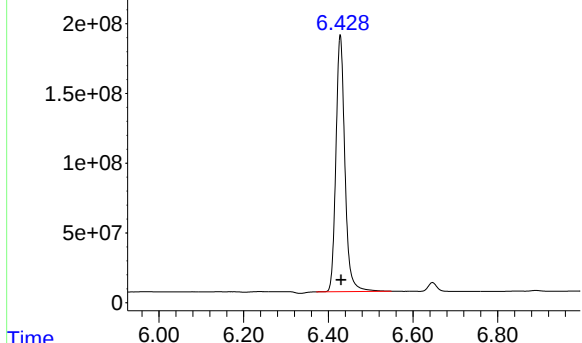
Time Response_ Signal: PS028284.D\ECD2B.ch



#1 Dalapon

R.T.: 2.712 min
Delta R.T.: 0.002 min
Response: 2001440284
Conc: 680.18 ng/ml

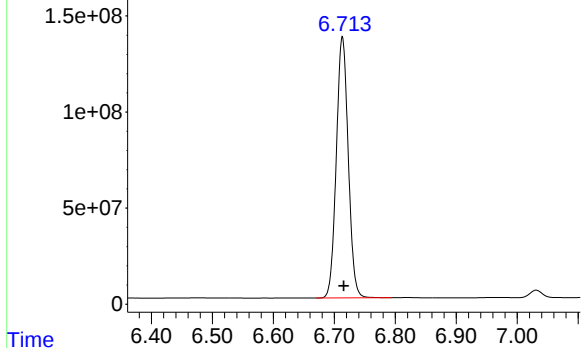
Time Response_ Signal: PS028284.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.428 min
Delta R.T.: -0.002 min
Response: 2705957984
Conc: 721.82 ng/ml

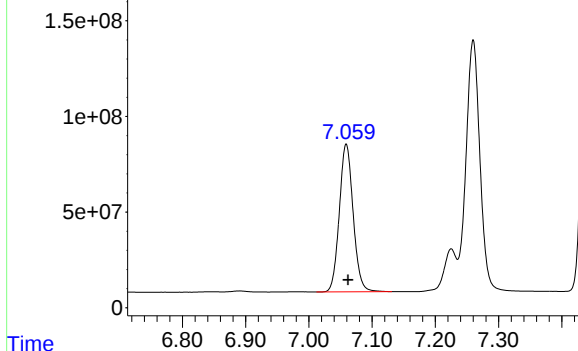
Time Response_ Signal: PS028284.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.713 min
Delta R.T.: -0.003 min
Response: 1850347993
Conc: 731.10 ng/ml m

Response_ Signal: PS028284.D\ECD1A.ch



#3 4-Nitrophenol

R.T.: 7.059 min
Delta R.T.: -0.003 min
Response: 1173398543
Conc: 712.20 ng/ml

Instrument :

ECD_S

ClientSampleId :

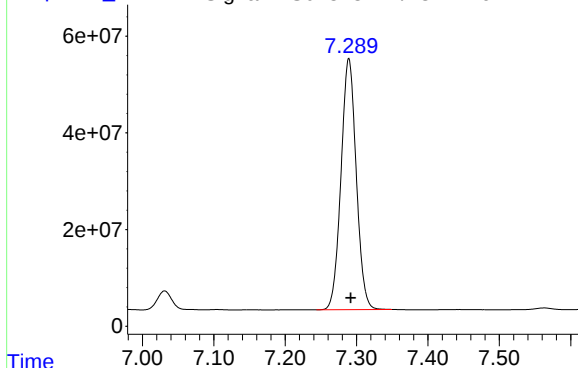
HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

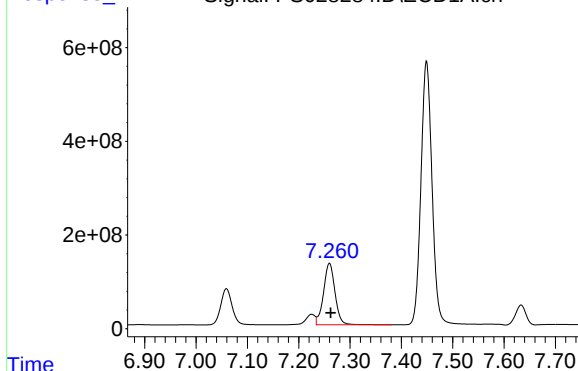
Time Response_ Signal: PS028284.D\ECD2B.ch



#3 4-Nitrophenol

R.T.: 7.289 min
Delta R.T.: -0.002 min
Response: 770018223
Conc: 671.95 ng/ml

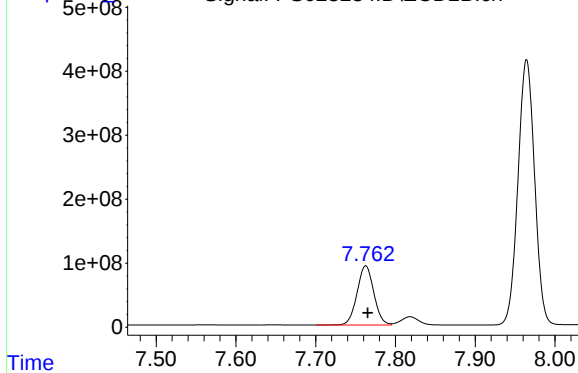
Response_ Signal: PS028284.D\ECD1A.ch



#4 2,4-DCAA

R.T.: 7.260 min
Delta R.T.: -0.003 min
Response: 2019453541
Conc: 788.41 ng/ml

Time Response_ Signal: PS028284.D\ECD2B.ch

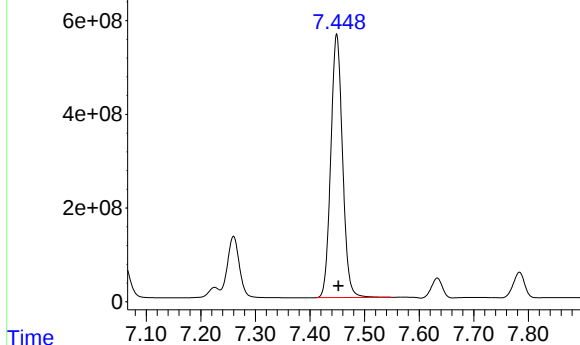


#4 2,4-DCAA

R.T.: 7.763 min
Delta R.T.: -0.002 min
Response: 1347625287
Conc: 773.71 ng/ml

Response_ Signal: PS028284.D\ECD1A.ch

#5 DICAMBA



R.T.: 7.449 min
Delta R.T.: -0.003 min
Response: 8393721972
Conc: 747.53 ng/ml

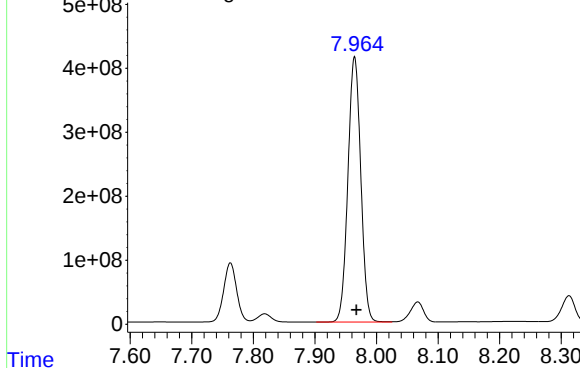
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Response_ Signal: PS028284.D\ECD2B.ch

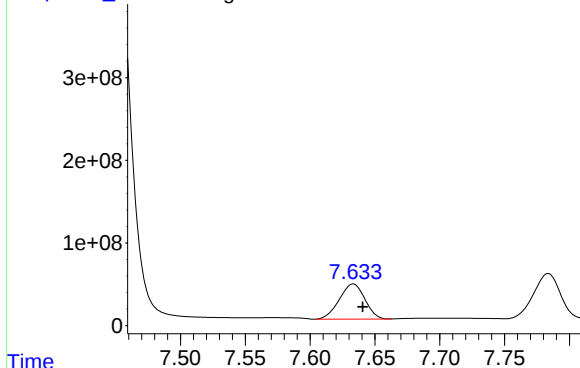
#5 DICAMBA



R.T.: 7.964 min
Delta R.T.: -0.003 min
Response: 6005630495
Conc: 747.66 ng/ml

Response_ Signal: PS028284.D\ECD1A.ch

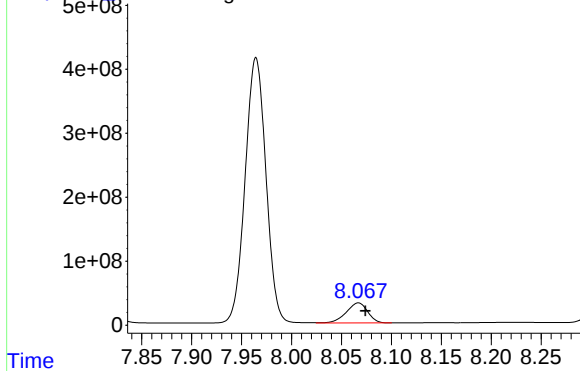
#6 MCPP



R.T.: 7.633 min
Delta R.T.: -0.007 min
Response: 583777347
Conc: 76.99 ug/ml

Response_ Signal: PS028284.D\ECD2B.ch

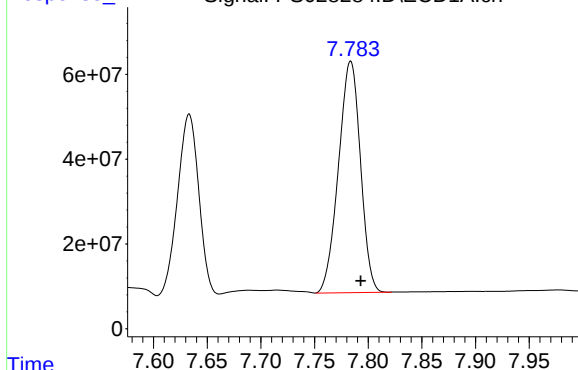
#6 MCPP



R.T.: 8.067 min
Delta R.T.: -0.007 min
Response: 466457076
Conc: 76.83 ug/ml

Response_ Signal: PS028284.D\ECD1A.ch

#7 MCPA



R.T.: 7.784 min
Delta R.T.: -0.009 min
Response: 777769100
Conc: 74.71 ug/ml

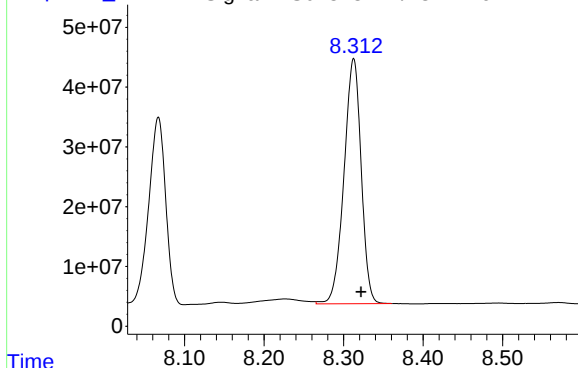
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time Response_ Signal: PS028284.D\ECD2B.ch

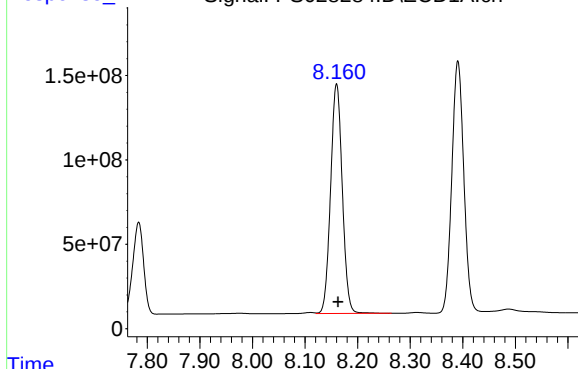
#7 MCPA



R.T.: 8.313 min
Delta R.T.: -0.009 min
Response: 615054934
Conc: 73.76 ug/ml

Time Response_ Signal: PS028284.D\ECD1A.ch

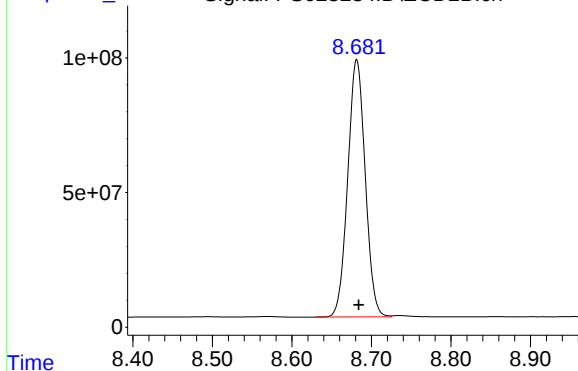
#8 DICHLORPROP



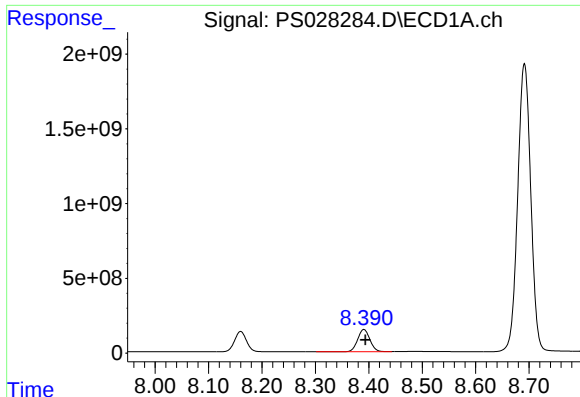
R.T.: 8.160 min
Delta R.T.: -0.003 min
Response: 2100358643
Conc: 745.00 ng/ml

Time Response_ Signal: PS028284.D\ECD2B.ch

#8 DICHLORPROP



R.T.: 8.682 min
Delta R.T.: -0.002 min
Response: 1457869171
Conc: 725.58 ng/ml



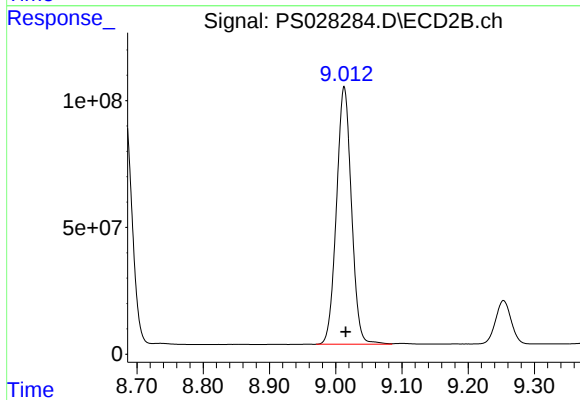
#9 2,4-D

R.T.: 8.391 min
Delta R.T.: -0.003 min
Response: 2354871541
Conc: 746.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

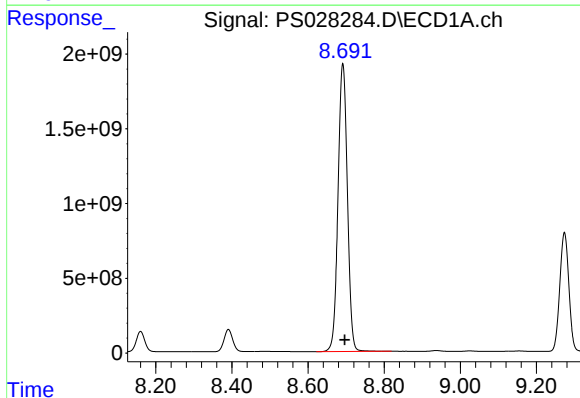
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



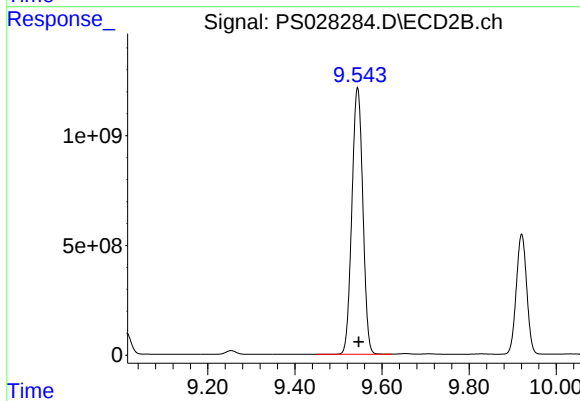
#9 2,4-D

R.T.: 9.013 min
Delta R.T.: -0.002 min
Response: 1593074283
Conc: 714.34 ng/ml



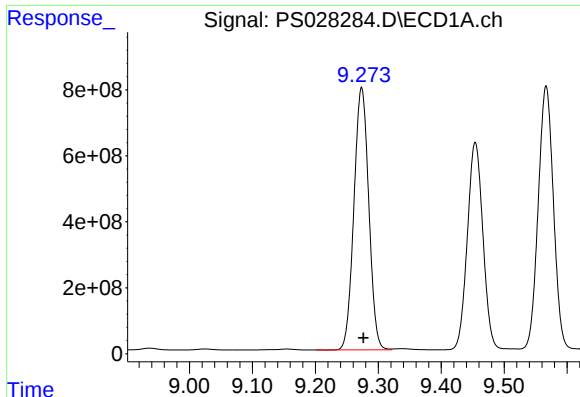
#10 Pentachlorophenol

R.T.: 8.691 min
Delta R.T.: -0.005 min
Response: 32738746769
Conc: 787.70 ng/ml



#10 Pentachlorophenol

R.T.: 9.544 min
Delta R.T.: -0.003 min
Response: 21186672843
Conc: 726.45 ng/ml



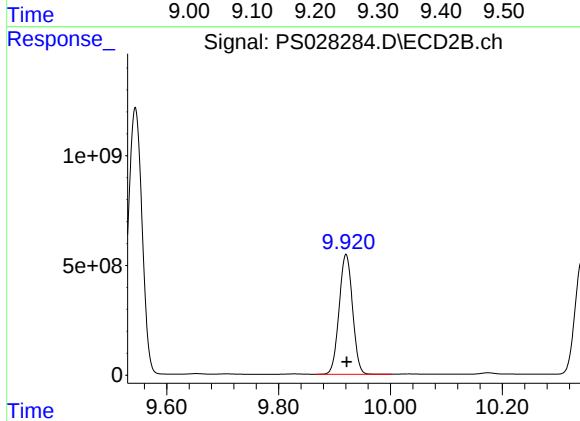
#11 2,4,5-TP (SILVEX)

R.T.: 9.274 min
Delta R.T.: -0.003 min
Response: 13015340182
Conc: 764.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

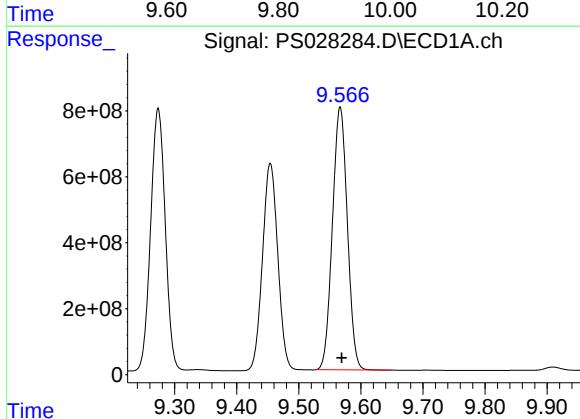
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



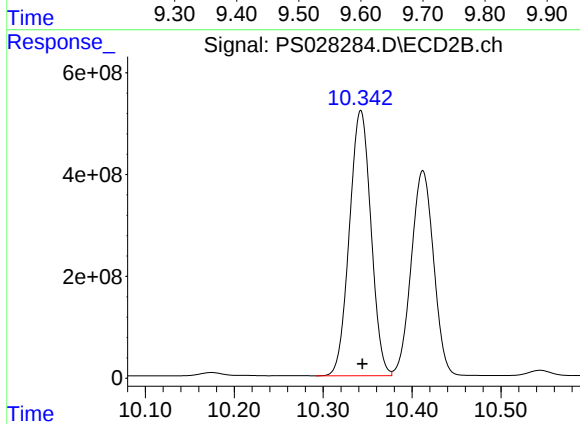
#11 2,4,5-TP (SILVEX)

R.T.: 9.921 min
Delta R.T.: -0.001 min
Response: 9075284445
Conc: 729.37 ng/ml



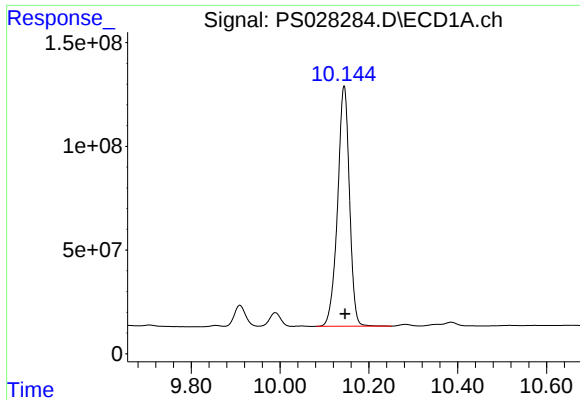
#12 2,4,5-T

R.T.: 9.567 min
Delta R.T.: -0.003 min
Response: 13312348193
Conc: 767.92 ng/ml



#12 2,4,5-T

R.T.: 10.342 min
Delta R.T.: -0.002 min
Response: 8789321583
Conc: 716.51 ng/ml



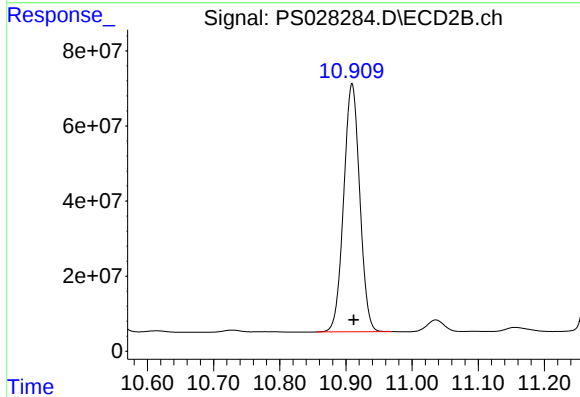
#13 2,4-DB

R.T.: 10.144 min
Delta R.T.: -0.002 min
Response: 2153037126
Conc: 761.72 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

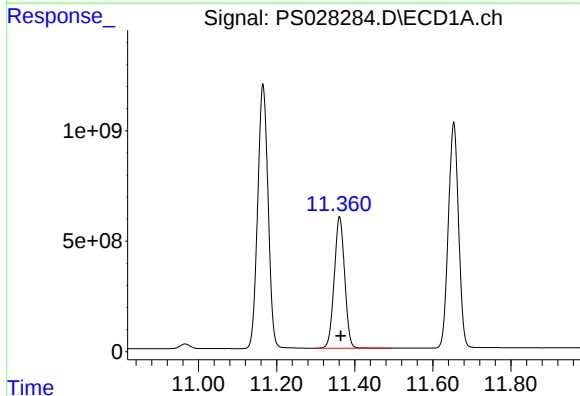
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



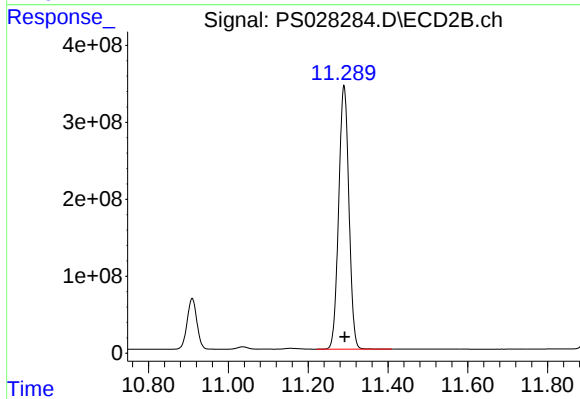
#13 2,4-DB

R.T.: 10.909 min
Delta R.T.: -0.003 min
Response: 1114663200
Conc: 703.30 ng/ml



#14 DINOSEB

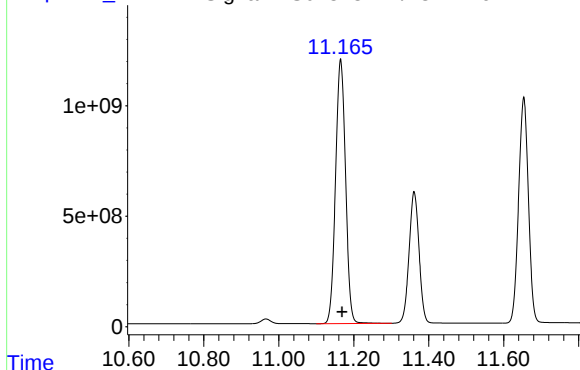
R.T.: 11.361 min
Delta R.T.: -0.003 min
Response: 10995543423
Conc: 760.47 ng/ml



#14 DINOSEB

R.T.: 11.290 min
Delta R.T.: -0.002 min
Response: 6084779705
Conc: 697.66 ng/ml

Response_ Signal: PS028284.D\ECD1A.ch



#15 Picloram

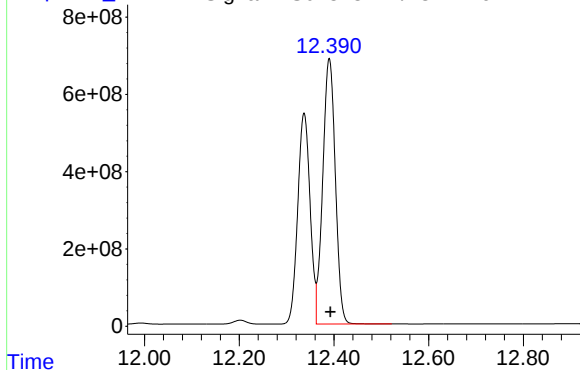
R.T.: 11.165 min
Delta R.T.: -0.004 min
Response: 22105968026
Conc: 762.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

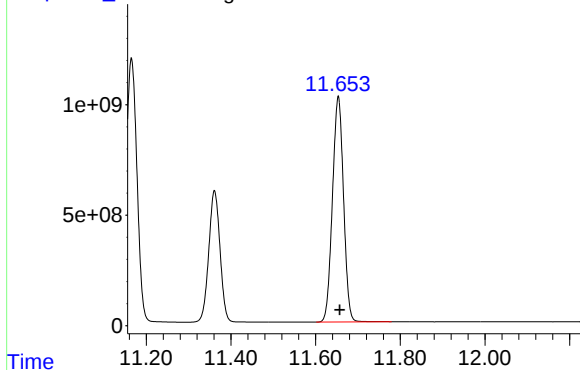
Response_ Signal: PS028284.D\ECD2B.ch



#15 Picloram

R.T.: 12.390 min
Delta R.T.: -0.002 min
Response: 12660958973
Conc: 702.13 ng/ml

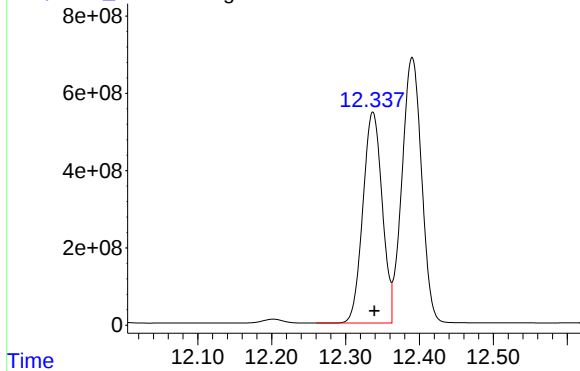
Response_ Signal: PS028284.D\ECD1A.ch



#16 DCPA

R.T.: 11.654 min
Delta R.T.: -0.003 min
Response: 18523112930
Conc: 779.62 ng/ml

Response_ Signal: PS028284.D\ECD2B.ch



#16 DCPA

R.T.: 12.337 min
Delta R.T.: -0.002 min
Response: 9888239659
Conc: 705.77 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/07/2024 Initial Calibration Date(s): 11/06/2024 11/06/2024

Continuing Calib Time: 04:40 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.45	7.45	7.35	7.55	0.00
2,4-DCAA	7.26	7.26	7.16	7.36	0.00
DICHLORPROP	8.16	8.16	8.06	8.26	0.00
2,4-D	8.39	8.39	8.29	8.49	0.00
2,4,5-TP(Silvex)	9.27	9.28	9.18	9.38	0.01
2,4,5-T	9.56	9.57	9.47	9.67	0.01
2,4-DB	10.14	10.15	10.05	10.25	0.01
Dinoseb	11.36	11.36	11.26	11.46	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/07/2024 Initial Calibration Date(s): 11/06/2024 11/06/2024

Continuing Calib Time: 04:40 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.96	7.97	7.87	8.07	0.01
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
DICHLORPROP	8.68	8.68	8.58	8.78	0.00
2,4-D	9.01	9.02	8.92	9.12	0.01
2,4,5-TP(Silvex)	9.92	9.92	9.82	10.02	0.00
2,4,5-T	10.34	10.34	10.24	10.44	0.00
2,4-DB	10.91	10.91	10.81	11.01	0.00
Dinoseb	11.29	11.29	11.19	11.39	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL05 Date Analyzed: 11/07/2024

Lab Sample No.: HSTDCCC750 Data File : PS028297.D Time Analyzed: 04:40

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.563	9.469	9.669	769.290	712.500	8.0
2,4,5-TP(Silvex)	9.270	9.177	9.377	773.230	712.500	8.5
2,4-D	8.388	8.294	8.494	749.690	705.000	6.3
2,4-DB	10.141	10.047	10.247	767.890	712.500	7.8
2,4-DCAA	7.258	7.162	7.362	772.740	750.000	3.0
DICAMBA	7.447	7.351	7.551	749.460	705.000	6.3
DICHLORPROP	8.157	8.063	8.263	750.990	705.000	6.5
Dinoseb	11.358	11.264	11.464	757.790	705.000	7.5



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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL05 Date Analyzed: 11/07/2024

Lab Sample No.: HSTDCCC750 Data File : PS028297.D Time Analyzed: 04:40

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.340	10.244	10.444	706.210	712.500	-0.9
2,4,5-TP(Silvex)	9.918	9.823	10.023	718.100	712.500	0.8
2,4-D	9.011	8.915	9.115	700.360	705.000	-0.7
2,4-DB	10.908	10.812	11.012	688.940	712.500	-3.3
2,4-DCAA	7.761	7.665	7.865	760.410	750.000	1.4
DICAMBA	7.963	7.867	8.067	732.640	705.000	3.9
DICHLORPROP	8.680	8.584	8.784	712.320	705.000	1.0
Dinoseb	11.287	11.191	11.391	668.880	705.000	-5.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028297.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Nov 2024 04:40
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 07 04:59:31 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.258	7.761	1979.3E6	1324.5E6	772.735m	760.408
Target Compounds						
1) T Dalapon	2.651	2.711	2447.7E6	2017.8E6	687.715	685.759
2) T 3,5-DICHL...	6.426	6.712	2715.8E6	1813.9E6	724.456	716.703
3) T 4-Nitroph...	7.057	7.288	1173.7E6	754.7E6	712.370	658.588
5) T DICAMBA	7.447	7.963	8415.3E6	5884.9E6	749.460	732.636
6) T MCPP	7.631	8.065	587.9E6	457.1E6	77.532	75.284
7) T MCPA	7.781	8.311	781.5E6	601.2E6	75.065	72.101
8) T DICHLORPROP	8.157	8.680	2117.3E6	1431.2E6	750.992	712.315
9) T 2,4-D	8.388	9.011	2366.1E6	1561.9E6	749.692m	700.363
10) T Pentachlo...	8.689	9.542	33059.9E6	20826.7E6	795.422	714.108
11) T 2,4,5-TP ...	9.270	9.918	13164.7E6	8935.0E6	773.230	718.096
12) T 2,4,5-T	9.563	10.340	13336.0E6	8662.9E6	769.288	706.208
13) T 2,4-DB	10.141	10.908	2170.5E6	1091.9E6	767.888	688.942
14) T DINOSEB	11.358	11.287	10956.8E6	5833.7E6	757.789	668.875
15) T Picloram	11.162	12.387	22210.9E6	12292.8E6	765.921	681.714
16) T DCPA	11.650	12.334	18752.5E6	9655.6E6	789.271	689.171

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028297.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 04:40
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

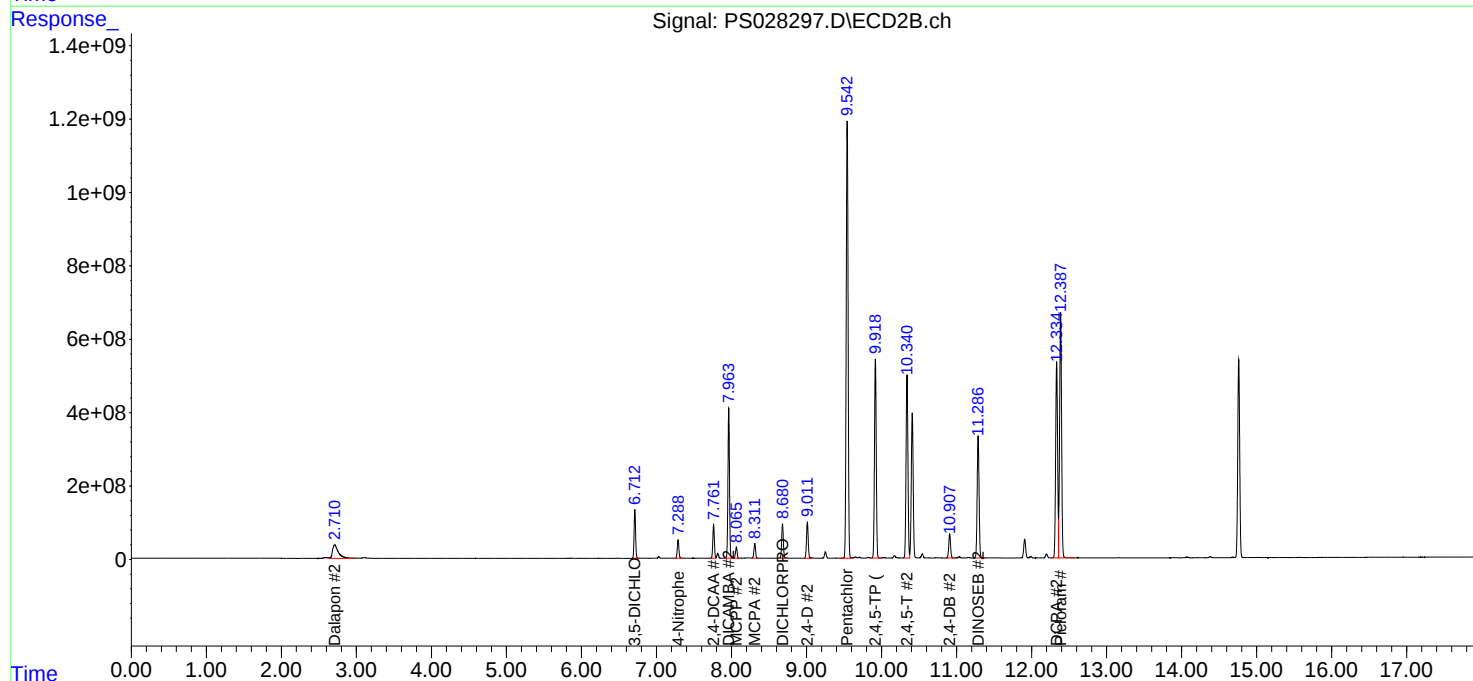
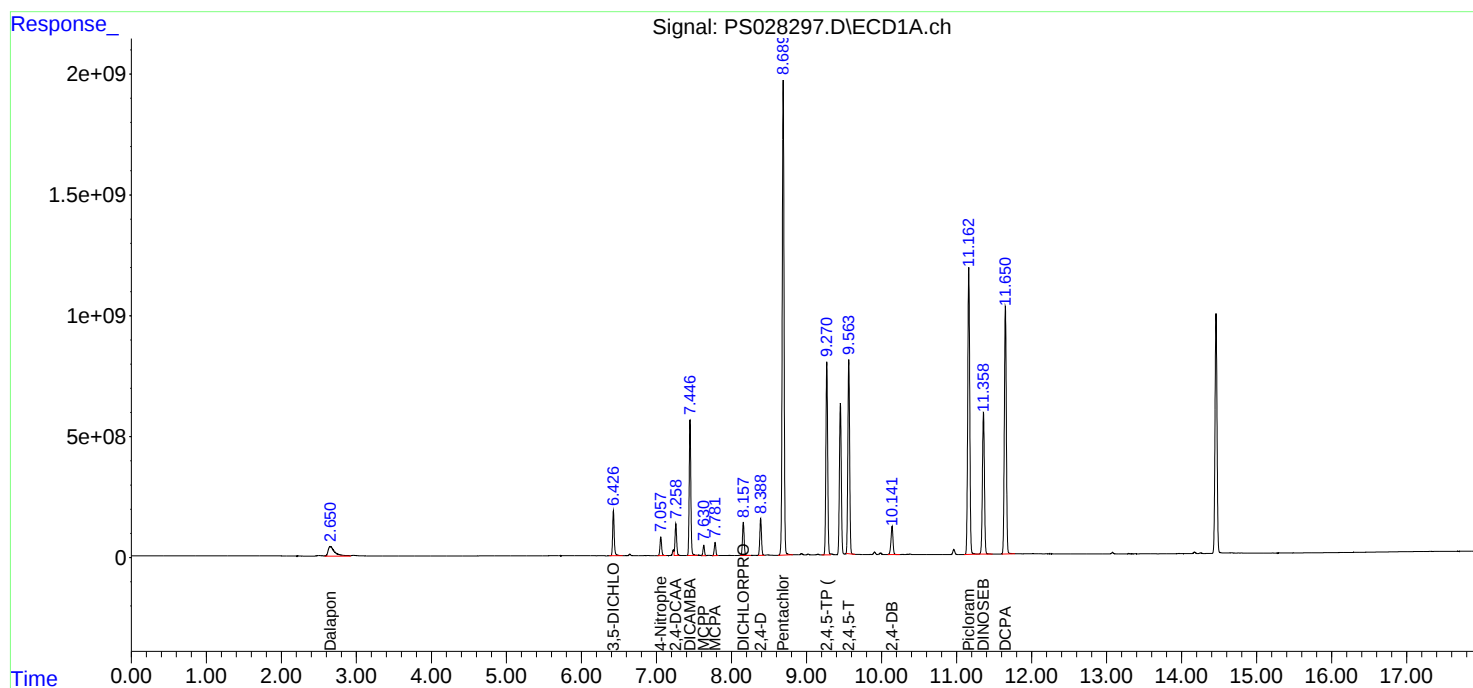
APPROVED

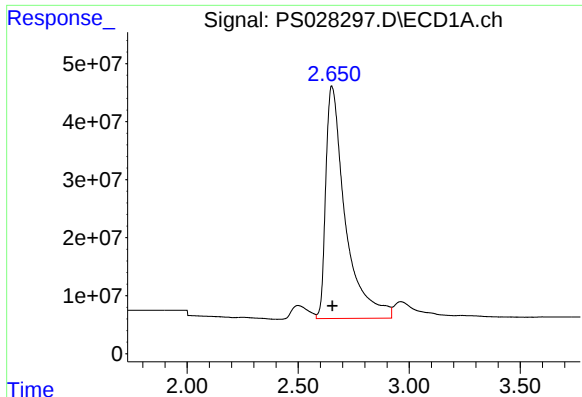
Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 04:59:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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





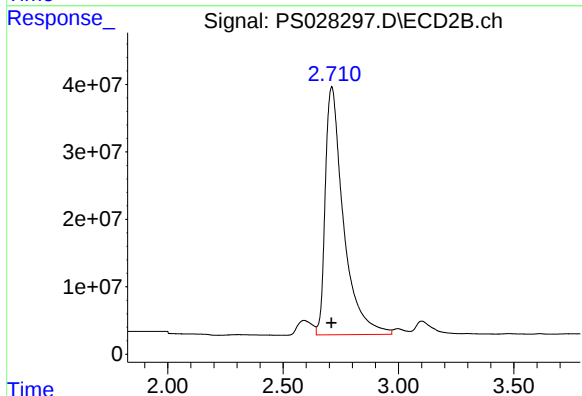
#1 Dalapon

R.T.: 2.651 min
Delta R.T.: -0.003 min
Response: 2447708491
Conc: 687.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

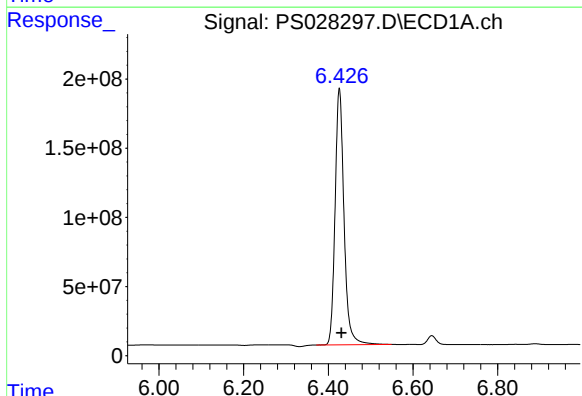
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



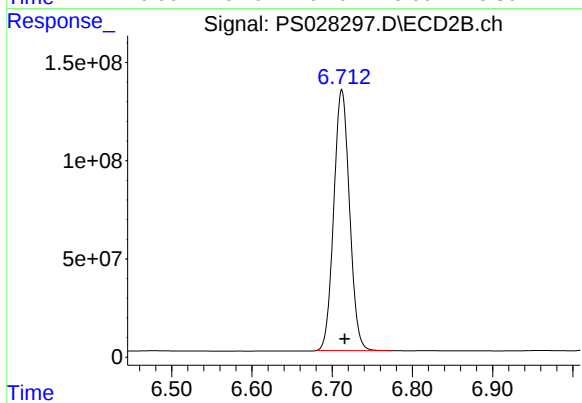
#1 Dalapon

R.T.: 2.711 min
Delta R.T.: 0.000 min
Response: 2017840879
Conc: 685.76 ng/ml



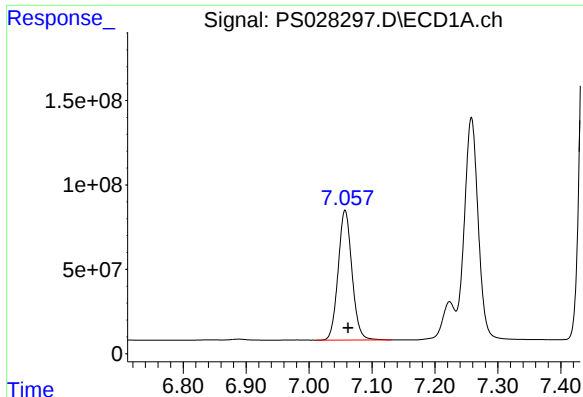
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.426 min
Delta R.T.: -0.004 min
Response: 2715827138
Conc: 724.46 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.712 min
Delta R.T.: -0.004 min
Response: 1813907703
Conc: 716.70 ng/ml



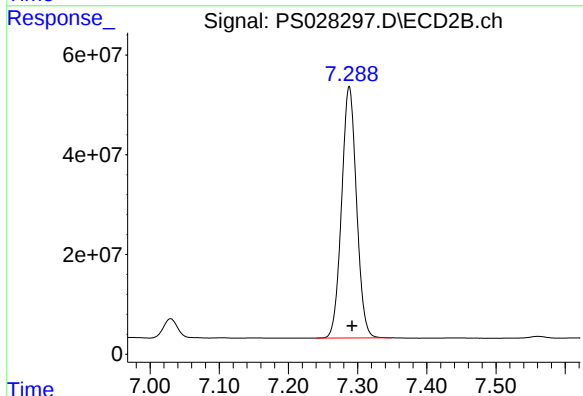
#3 4-Nitrophenol

R.T.: 7.057 min
Delta R.T.: -0.005 min
Response: 1173677049
Conc: 712.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

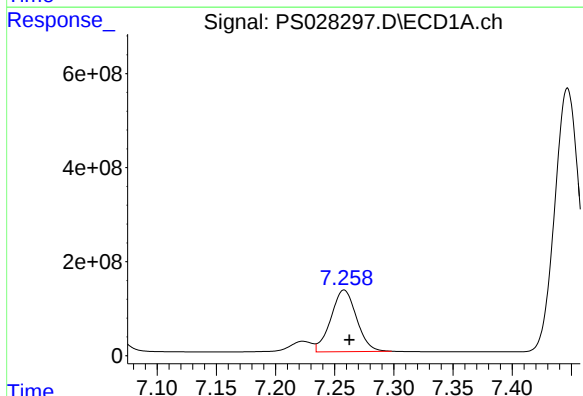
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



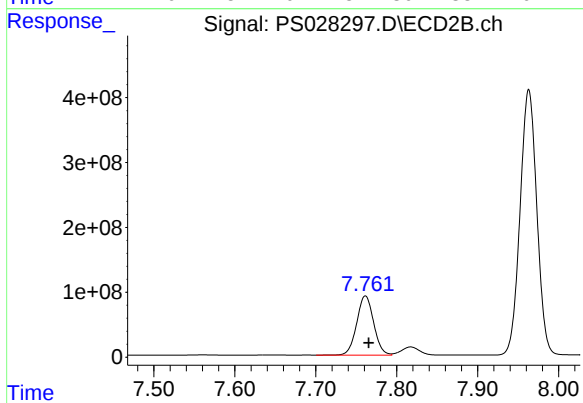
#3 4-Nitrophenol

R.T.: 7.288 min
Delta R.T.: -0.004 min
Response: 754706050
Conc: 658.59 ng/ml



#4 2,4-DCAA

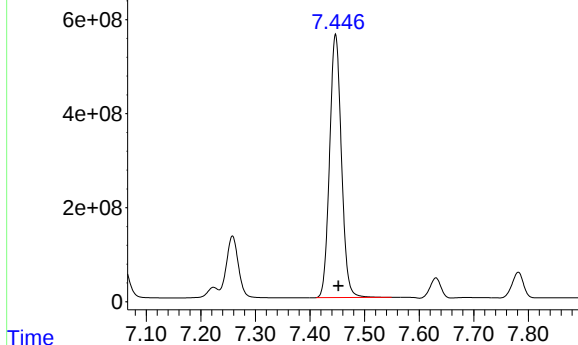
R.T.: 7.258 min
Delta R.T.: -0.005 min
Response: 1979294940
Conc: 772.74 ng/ml m



#4 2,4-DCAA

R.T.: 7.761 min
Delta R.T.: -0.004 min
Response: 1324463824
Conc: 760.41 ng/ml

Response_ Signal: PS028297.D\ECD1A.ch



#5 DICAMBA

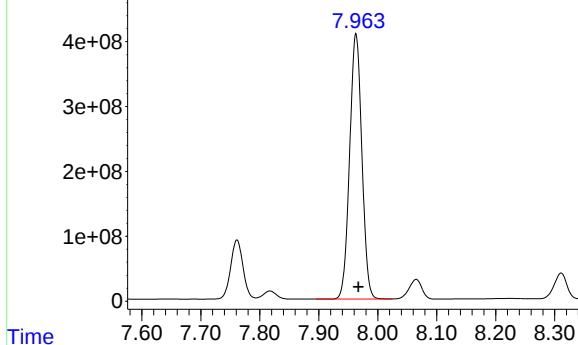
R.T.: 7.447 min
Delta R.T.: -0.005 min
Response: 8415345854
Conc: 749.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

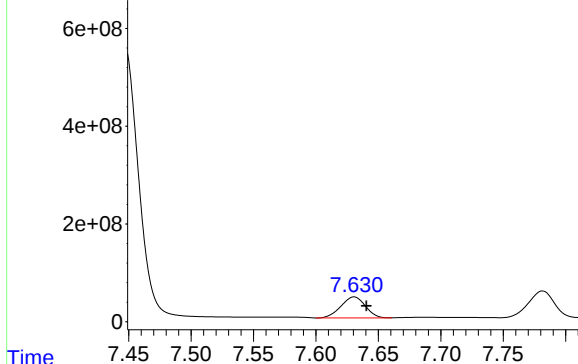
Response_ Signal: PS028297.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.963 min
Delta R.T.: -0.004 min
Response: 5884942006
Conc: 732.64 ng/ml

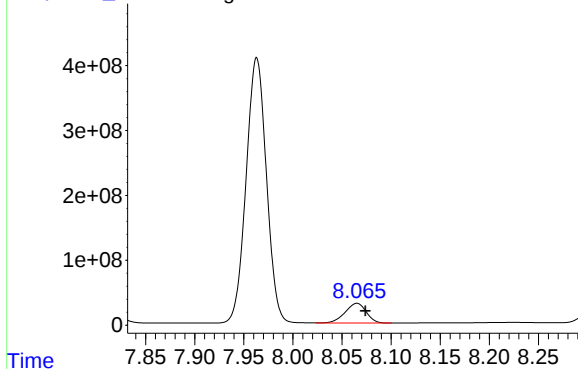
Response_ Signal: PS028297.D\ECD1A.ch



#6 MCPP

R.T.: 7.631 min
Delta R.T.: -0.010 min
Response: 587884296
Conc: 77.53 ug/ml

Response_ Signal: PS028297.D\ECD2B.ch

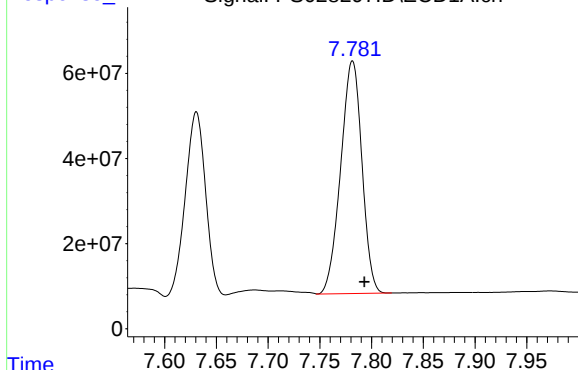


#6 MCPP

R.T.: 8.065 min
Delta R.T.: -0.009 min
Response: 457067997
Conc: 75.28 ug/ml

Response_ Signal: PS028297.D\ECD1A.ch

#7 MCPA



R.T.: 7.781 min
Delta R.T.: -0.011 min
Response: 781510807
Conc: 75.06 ug/ml

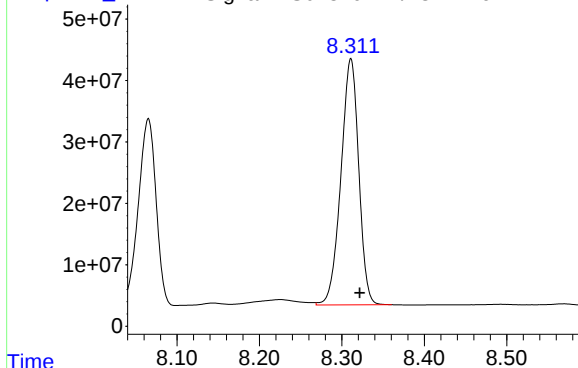
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time Response_ Signal: PS028297.D\ECD2B.ch

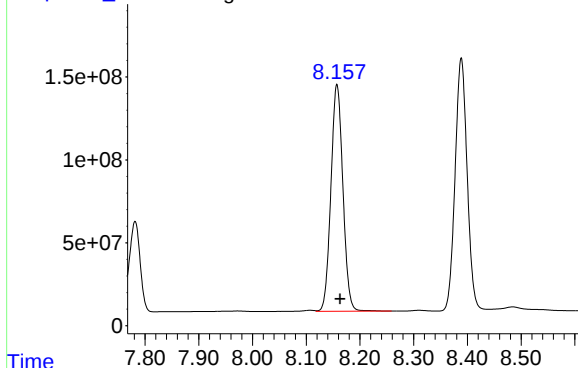
#7 MCPA



R.T.: 8.311 min
Delta R.T.: -0.011 min
Response: 601224981
Conc: 72.10 ug/ml

Time Response_ Signal: PS028297.D\ECD1A.ch

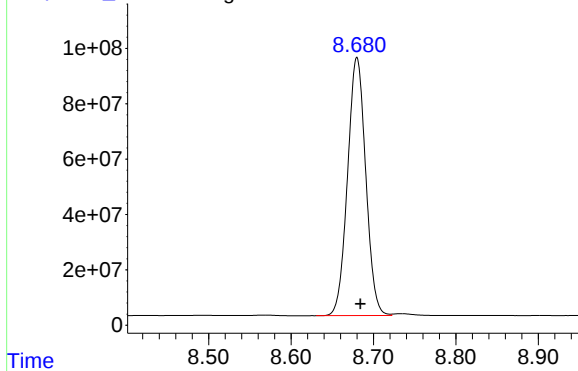
#8 DICHLORPROP



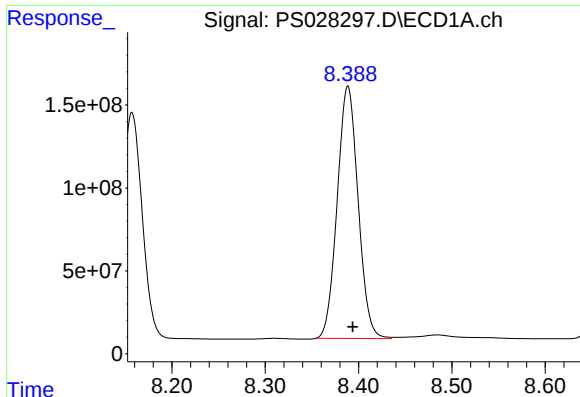
R.T.: 8.157 min
Delta R.T.: -0.006 min
Response: 2117256446
Conc: 750.99 ng/ml

Time Response_ Signal: PS028297.D\ECD2B.ch

#8 DICHLORPROP



R.T.: 8.680 min
Delta R.T.: -0.004 min
Response: 1431214190
Conc: 712.32 ng/ml



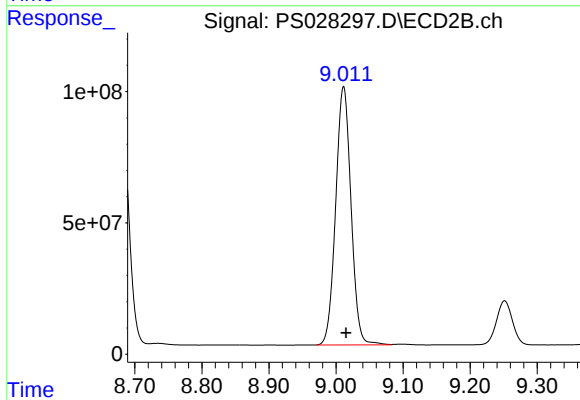
#9 2,4-D

R.T.: 8.388 min
Delta R.T.: -0.005 min
Response: 2366108448
Conc: 749.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

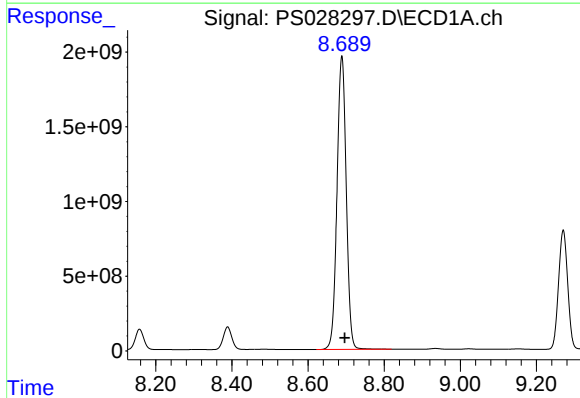
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



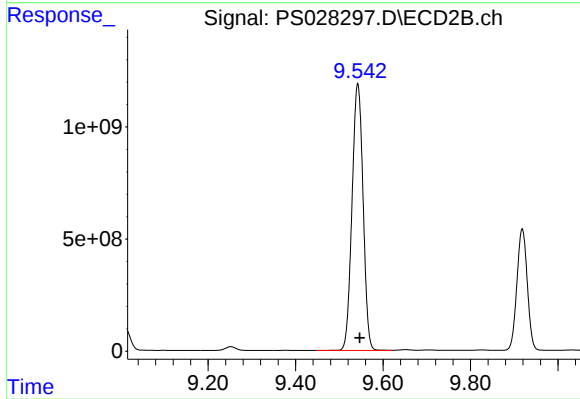
#9 2,4-D

R.T.: 9.011 min
Delta R.T.: -0.004 min
Response: 1561907684
Conc: 700.36 ng/ml



#10 Pentachlorophenol

R.T.: 8.689 min
Delta R.T.: -0.007 min
Response: 33059857293
Conc: 795.42 ng/ml



#10 Pentachlorophenol

R.T.: 9.542 min
Delta R.T.: -0.004 min
Response: 20826732704
Conc: 714.11 ng/ml

Response_

Signal: PS028297.D\ECD1A.ch

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

R.T.: 9.270 min

Delta R.T.: -0.006 min

Response: 13164723446

Conc: 773.23 ng/ml

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Time

Response_

Signal: PS028297.D\ECD2B.ch

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

R.T.: 9.918 min

Delta R.T.: -0.004 min

Response: 8935045430

Conc: 718.10 ng/ml

Time

Response_

Signal: PS028297.D\ECD1A.ch

#12 2,4,5-T

R.T.: 9.563 min

Delta R.T.: -0.006 min

Response: 13336005465

Conc: 769.29 ng/ml

Time

Response_

Signal: PS028297.D\ECD2B.ch

#12 2,4,5-T

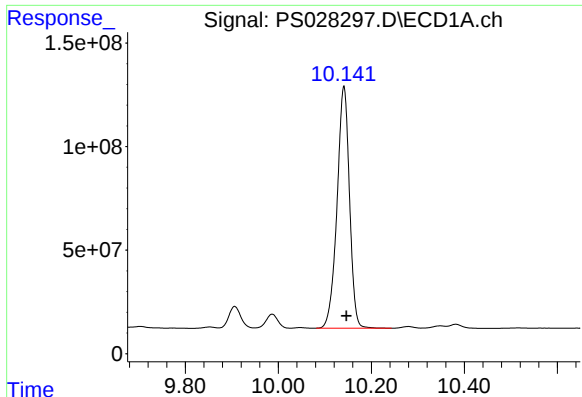
R.T.: 10.340 min

Delta R.T.: -0.004 min

Response: 8662905196

Conc: 706.21 ng/ml

Time



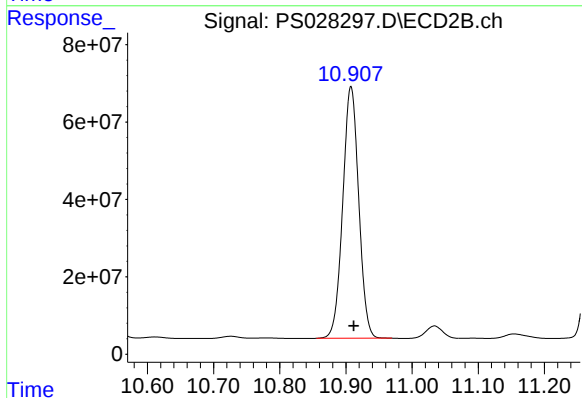
#13 2,4-DB

R.T.: 10.141 min
Delta R.T.: -0.006 min
Response: 2170462023
Conc: 767.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

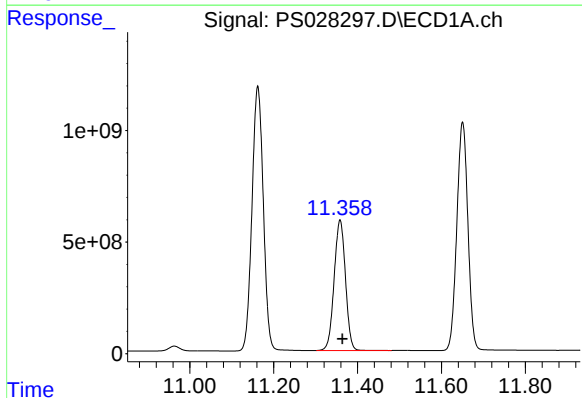
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



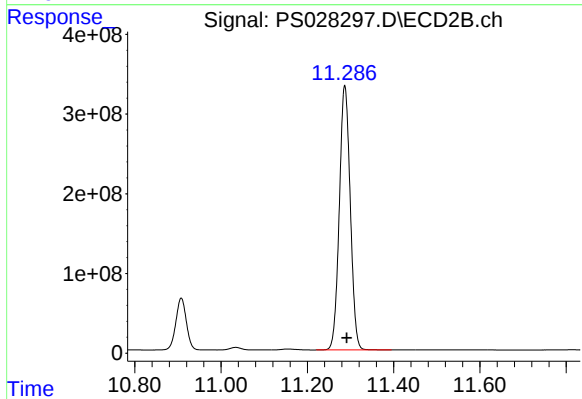
#13 2,4-DB

R.T.: 10.908 min
Delta R.T.: -0.004 min
Response: 1091903107
Conc: 688.94 ng/ml



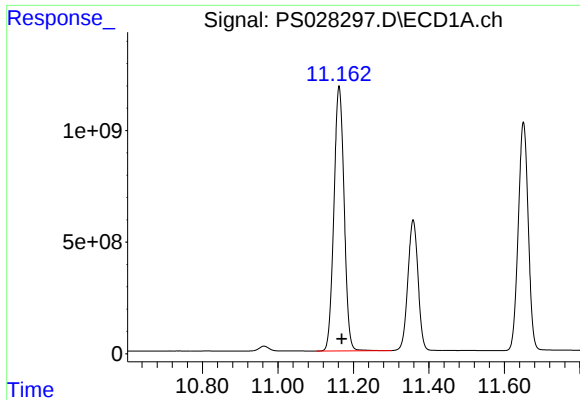
#14 DINOSEB

R.T.: 11.358 min
Delta R.T.: -0.006 min
Response: 10956846395
Conc: 757.79 ng/ml



#14 DINOSEB

R.T.: 11.287 min
Delta R.T.: -0.005 min
Response: 5833697774
Conc: 668.88 ng/ml



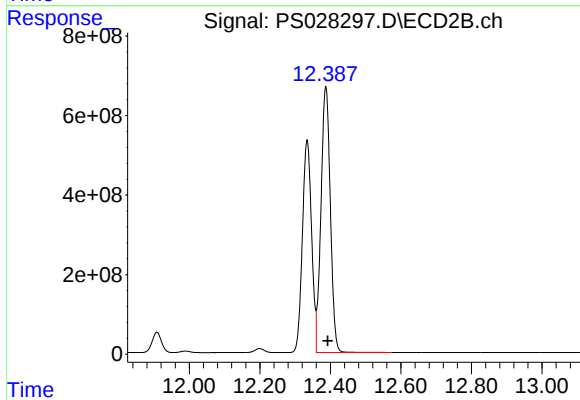
#15 Picloram

R.T.: 11.162 min
Delta R.T.: -0.007 min
Response: 22210875108
Conc: 765.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

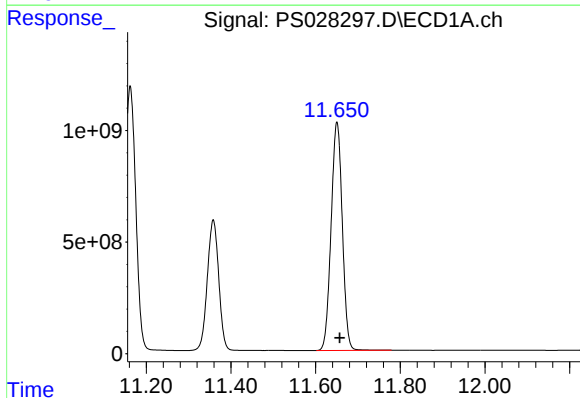
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



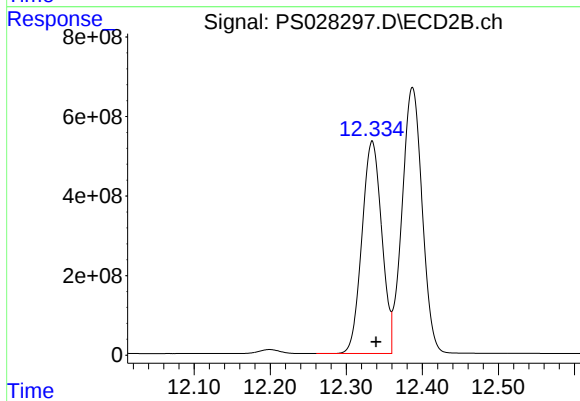
#15 Picloram

R.T.: 12.387 min
Delta R.T.: -0.005 min
Response: 12292771960
Conc: 681.71 ng/ml



#16 DCPA

R.T.: 11.650 min
Delta R.T.: -0.006 min
Response: 18752509291
Conc: 789.27 ng/ml



#16 DCPA

R.T.: 12.334 min
Delta R.T.: -0.005 min
Response: 9655633050
Conc: 689.17 ng/ml

Analytical Sequence

Client: Tetra Tech, EMI	SDG No.: P4593
Project: R36704	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 10/31/2024 10/31/2024

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	10/31/2024	10:27	PS028101.D	7.06	0.00
HSTDICC200	HSTDICC200	10/31/2024	10:51	PS028102.D	7.06	0.00
HSTDICC500	HSTDICC500	10/31/2024	11:15	PS028103.D	7.06	0.00
HSTDICC750	HSTDICC750	10/31/2024	11:39	PS028104.D	7.06	0.00
HSTDICC1000	HSTDICC1000	10/31/2024	12:03	PS028105.D	7.06	0.00
HSTDICC1500	HSTDICC1500	10/31/2024	12:27	PS028106.D	7.06	0.00
1.BLK	1.BLK	11/01/2024	04:54	PS028145.D	7.06	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	05:18	PS028146.D	7.06	0.00
PB164494BL	PB164494BL	11/01/2024	08:31	PS028153.D	7.06	0.00
C0PI1	P4593-01	11/01/2024	09:43	PS028156.D	7.06	0.00
1.BLK	1.BLK	11/01/2024	10:07	PS028157.D	7.06	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	11:19	PS028158.D	7.06	0.00
C0PI5	P4593-02	11/01/2024	14:31	PS028166.D	7.07	0.00
1.BLK	1.BLK	11/01/2024	14:55	PS028167.D	7.07	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	15:20	PS028168.D	7.07	0.00
1.BLK	1.BLK	11/06/2024	09:24	PS028252.D	7.26	0.00
HSTDICC200	HSTDICC200	11/06/2024	09:48	PS028253.D	7.26	0.00
HSTDICC500	HSTDICC500	11/06/2024	10:12	PS028254.D	7.26	0.00
HSTDICC750	HSTDICC750	11/06/2024	10:36	PS028255.D	7.26	0.00
HSTDICC1000	HSTDICC1000	11/06/2024	11:00	PS028256.D	7.26	0.00
HSTDICC1500	HSTDICC1500	11/06/2024	11:24	PS028257.D	7.26	0.00
1.BLK	1.BLK	11/06/2024	22:39	PS028283.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	23:03	PS028284.D	7.26	0.00
PB164494BS	PB164494BS	11/07/2024	00:15	PS028286.D	7.26	0.00
PB164494BSD	PB164494BSD	11/07/2024	00:39	PS028287.D	7.26	0.00
1.BLK	1.BLK	11/07/2024	04:16	PS028296.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	04:40	PS028297.D	7.26	0.00

Analytical Sequence

Client: Tetra Tech, EMI	SDG No.: P4593	
Project: R36704	Instrument ID: ECD_S	
GC Column: RTX-CLP2	ID: 0.32 (mm)	Inst. Calib. Date(s): 10/31/2024 10/31/2024

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	10/31/2024	10:27	PS028101.D	7.61	0.00
HSTDICC200	HSTDICC200	10/31/2024	10:51	PS028102.D	7.61	0.00
HSTDICC500	HSTDICC500	10/31/2024	11:15	PS028103.D	7.61	0.00
HSTDICC750	HSTDICC750	10/31/2024	11:39	PS028104.D	7.61	0.00
HSTDICC1000	HSTDICC1000	10/31/2024	12:03	PS028105.D	7.61	0.00
HSTDICC1500	HSTDICC1500	10/31/2024	12:27	PS028106.D	7.61	0.00
1.BLK	1.BLK	11/01/2024	04:54	PS028145.D	7.61	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	05:18	PS028146.D	7.61	0.00
PB164494BL	PB164494BL	11/01/2024	08:31	PS028153.D	7.60	0.00
C0PI1	P4593-01	11/01/2024	09:43	PS028156.D	7.61	0.00
1.BLK	1.BLK	11/01/2024	10:07	PS028157.D	7.61	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	11:19	PS028158.D	7.60	0.00
C0PI5	P4593-02	11/01/2024	14:31	PS028166.D	7.61	0.00
1.BLK	1.BLK	11/01/2024	14:55	PS028167.D	7.61	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	15:20	PS028168.D	7.61	0.00
1.BLK	1.BLK	11/06/2024	09:24	PS028252.D	7.76	0.00
HSTDICC200	HSTDICC200	11/06/2024	09:48	PS028253.D	7.77	0.00
HSTDICC500	HSTDICC500	11/06/2024	10:12	PS028254.D	7.77	0.00
HSTDICC750	HSTDICC750	11/06/2024	10:36	PS028255.D	7.77	0.00
HSTDICC1000	HSTDICC1000	11/06/2024	11:00	PS028256.D	7.77	0.00
HSTDICC1500	HSTDICC1500	11/06/2024	11:24	PS028257.D	7.77	0.00
1.BLK	1.BLK	11/06/2024	22:39	PS028283.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	23:03	PS028284.D	7.76	0.00
PB164494BS	PB164494BS	11/07/2024	00:15	PS028286.D	7.76	0.00
PB164494BSD	PB164494BSD	11/07/2024	00:39	PS028287.D	7.76	0.00
1.BLK	1.BLK	11/07/2024	04:16	PS028296.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	04:40	PS028297.D	7.76	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164494BS

Contract: TETR16

Lab Code: CHEM

Case No.: P4593

SAS No.: P4593

SDG NO.: P4593

Lab Sample ID: PB164494BS

Date(s) Analyzed: 11/07/2024

11/07/2024

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	8.39	8.34	8.44	5.30	7.8
	2	9.01	8.96	9.06	4.90	
2,4,5-TP(Silvex)	1	9.27	9.22	9.32	5.40	5.7
	2	9.92	9.87	9.97	5.10	
2,4,5-T	1	9.57	9.52	9.62	5.40	7.7
	2	10.34	10.29	10.39	5.00	
2,4-DB	1	10.14	10.09	10.19	5.30	9.9
	2	10.91	10.86	10.96	4.80	
DICHLORPROP	1	8.16	8.11	8.21	5.30	5.8
	2	8.68	8.63	8.73	5.00	
Dinoseb	1	11.36	11.31	11.41	5.40	11.8
	2	11.29	11.24	11.34	4.80	
DICAMBA	1	7.45	7.40	7.50	5.20	1.9
	2	7.96	7.91	8.01	5.10	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164494BSD

Contract: TETR16

Lab Code: CHEM

Case No.: P4593

SAS No.: P4593

SDG NO.: P4593

Lab Sample ID: PB164494BSD

Date(s) Analyzed: 11/07/2024

11/07/2024

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		
DICHLORPROP	1	8.16	8.11	8.21	5.20	5.9
	2	8.68	8.63	8.73	4.90	
2,4-D	1	8.39	8.34	8.44	5.30	9.9
	2	9.01	8.96	9.06	4.80	
2,4,5-TP(Silvex)	1	9.27	9.22	9.32	5.40	7.7
	2	9.92	9.87	9.97	5.00	
2,4,5-T	1	9.57	9.52	9.62	5.40	9.7
	2	10.34	10.29	10.39	4.90	
2,4-DB	1	10.14	10.09	10.19	5.30	12
	2	10.91	10.86	10.96	4.70	
Dinoseb	1	11.36	11.31	11.41	5.30	9.9
	2	11.29	11.24	11.34	4.80	
DICAMBA	1	7.45	7.40	7.50	5.10	2
	2	7.96	7.91	8.01	5.00	



QC SAMPLE DATA

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

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:		
Project:	R36704		Date Received:		
Client Sample ID:	PB164494BL		SDG No.:	P4593	
Lab Sample ID:	PB164494BL		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	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
PS028153.D	1	10/28/24 13:45	11/01/24 08:31	PB164494

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	560		39 - 175	112%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
 Data File : PS028153.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 Nov 2024 08:31
 Operator : AR\AJ
 Sample : PB164494BL
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB164494BL

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 11/01/2024

Supervised By :Ankita Jodhani 11/05/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 01 09:16:35 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:10:03 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	7.064	7.601	1753.2E6	527.9E6	560.357	528.399m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028153.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 08:31
Operator : AR\AJ
Sample : PB164494BL
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB164494BL

Manual Integrations

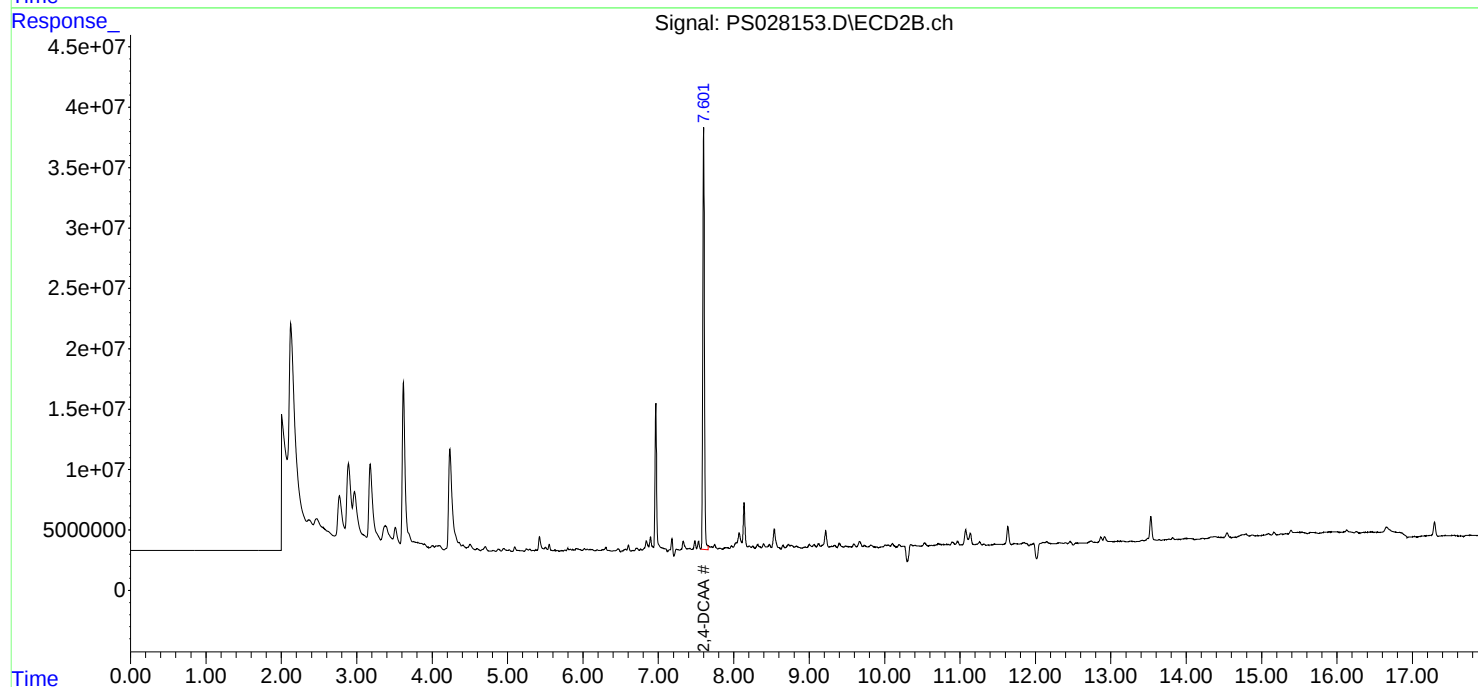
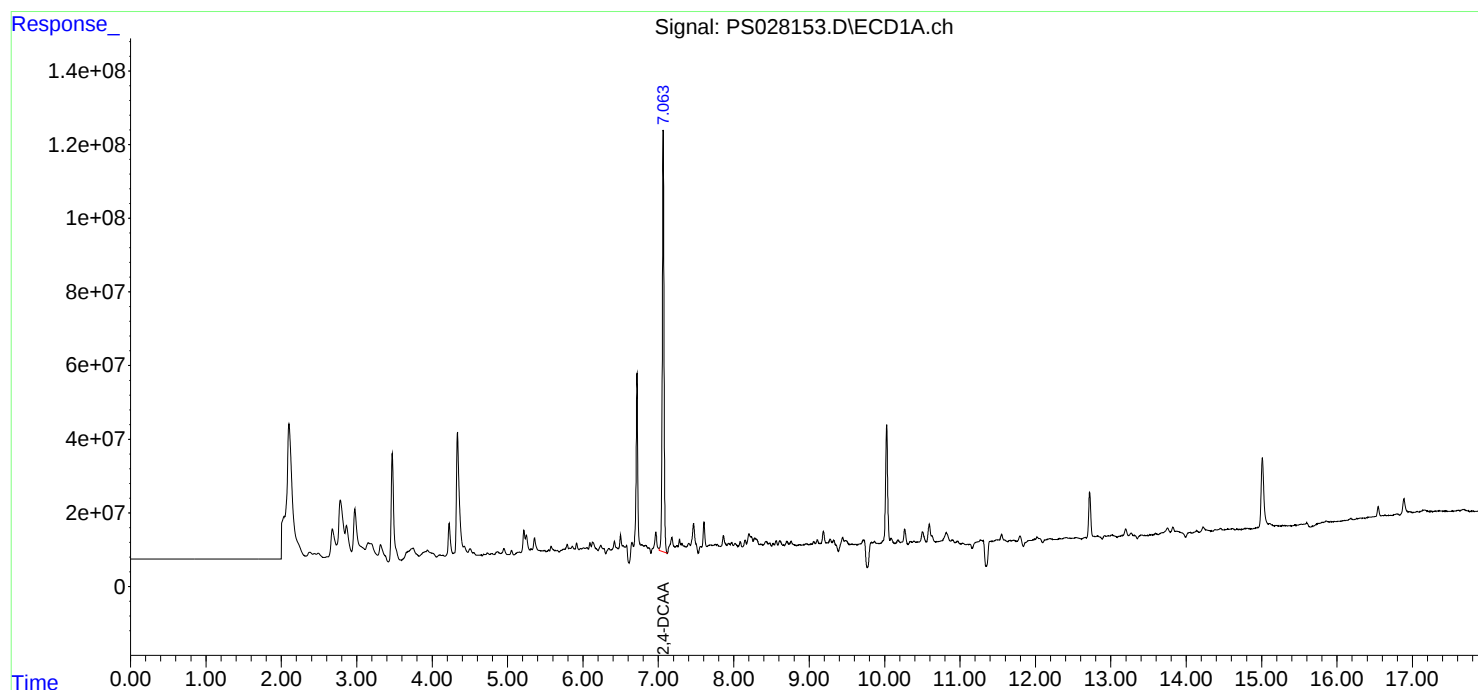
APPROVED

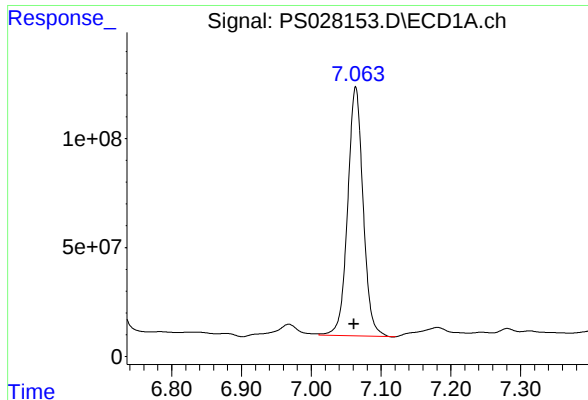
Reviewed By :Abdul Mirza 11/01/2024

Supervised By :Ankita Jodhani 11/05/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 09:16:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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





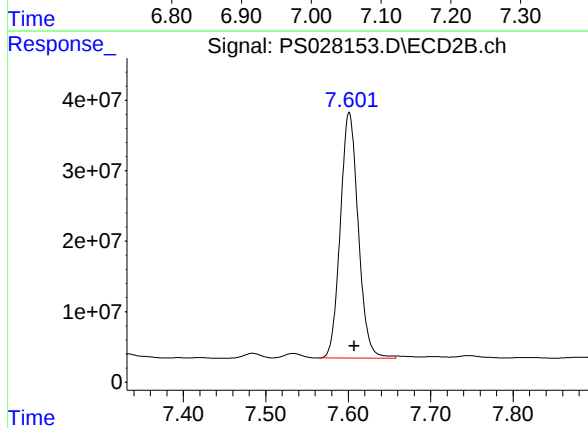
#4 2,4-DCAA

R.T.: 7.064 min
Delta R.T.: 0.002 min
Response: 1753213479
Conc: 560.36 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BL

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/05/2024



#4 2,4-DCAA

R.T.: 7.601 min
Delta R.T.: -0.006 min
Response: 527947341
Conc: 528.40 ng/ml m

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	10/31/24	
Project:	R36704		Date Received:	10/31/24	
Client Sample ID:	PIBLK-PS028101.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028101.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028101.D	1		10/31/24	PS103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	507		39 - 175	101%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
 Data File : PS028101.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Oct 2024 10:27
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 31 13:10:39 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
 Quant Title : 8080.M
 QLast Update : Thu Oct 31 13:10:03 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	7.062	7.605	1554.8E6	507.0E6	496.953	507.398
------	----------	-------	-------	----------	---------	---------	---------

Target Compounds

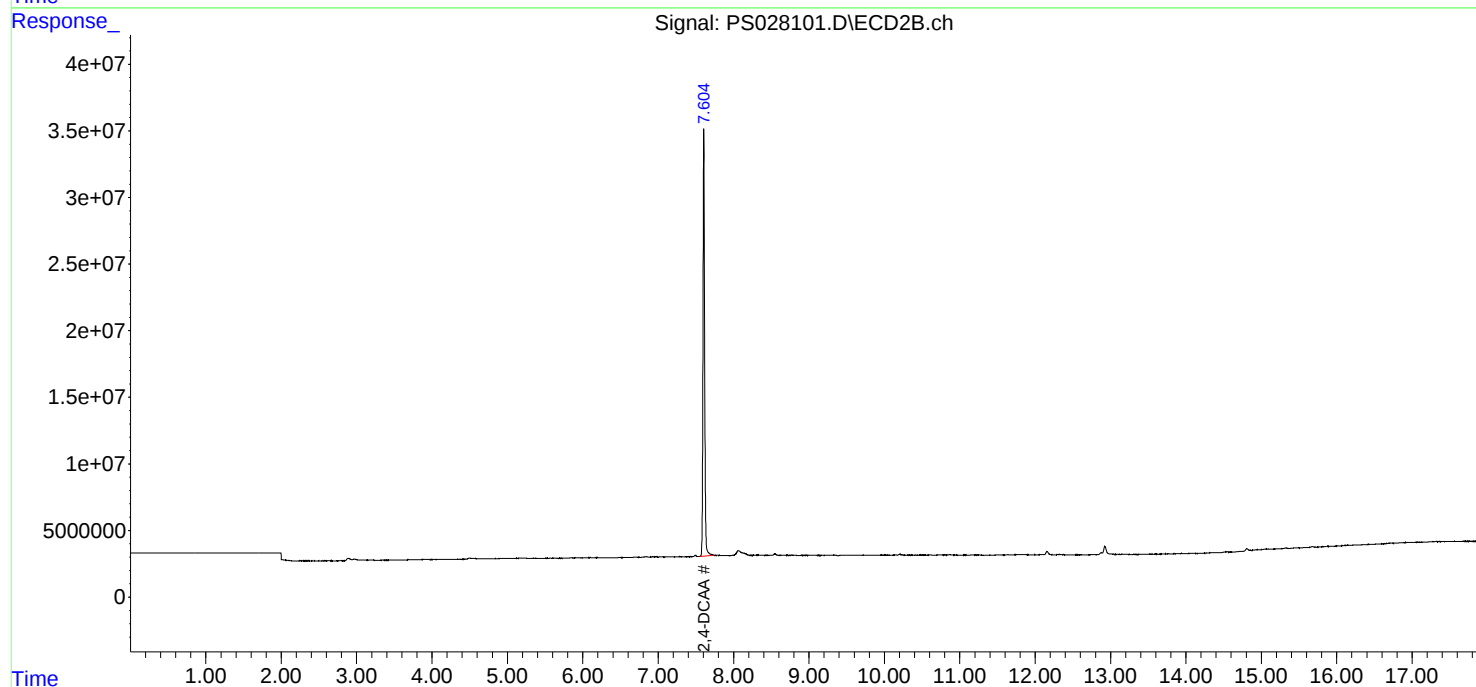
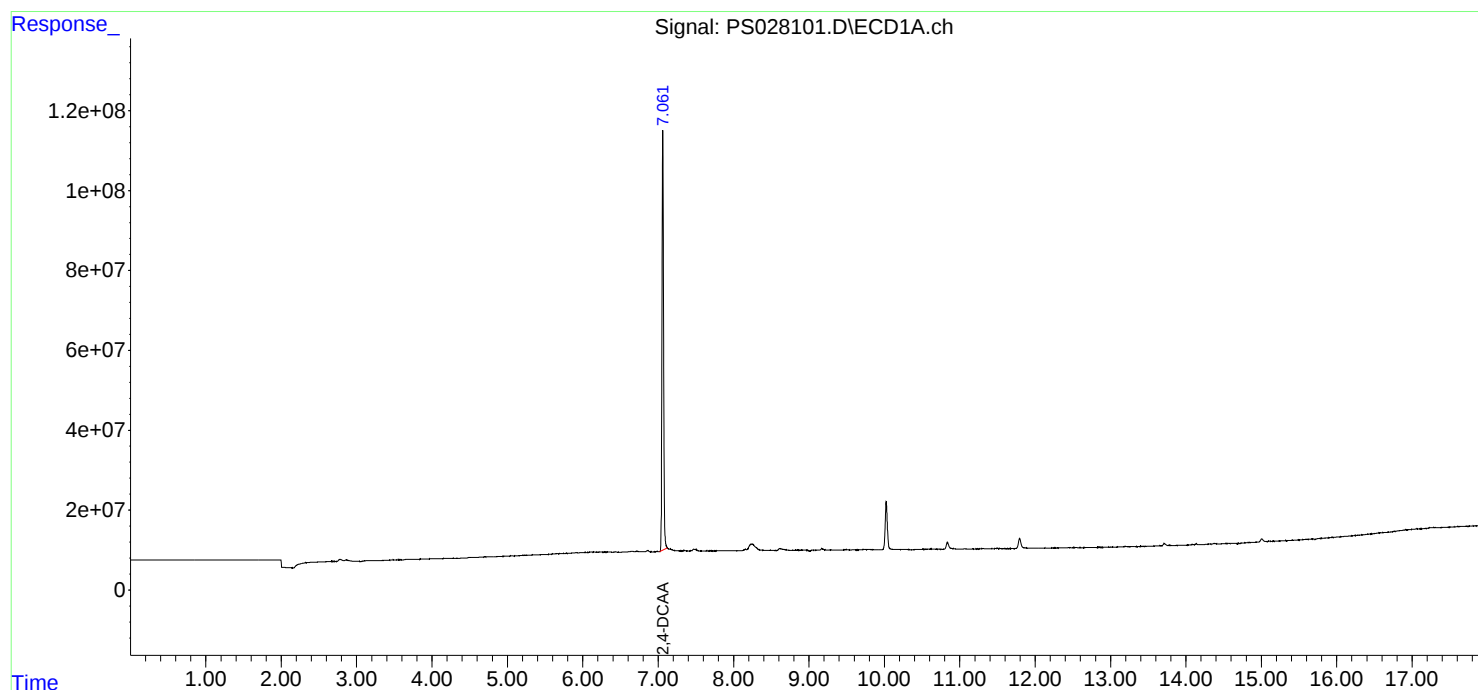
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

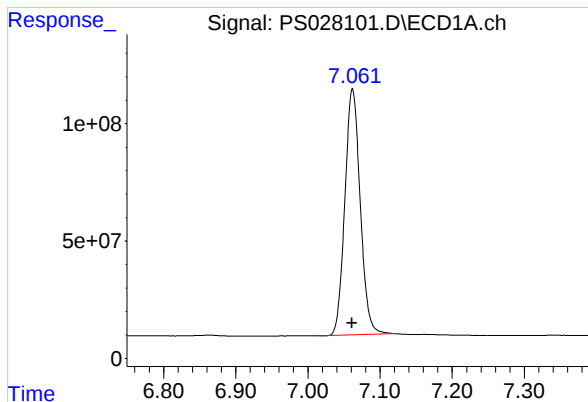
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028101.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 10:27
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 31 13:10:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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

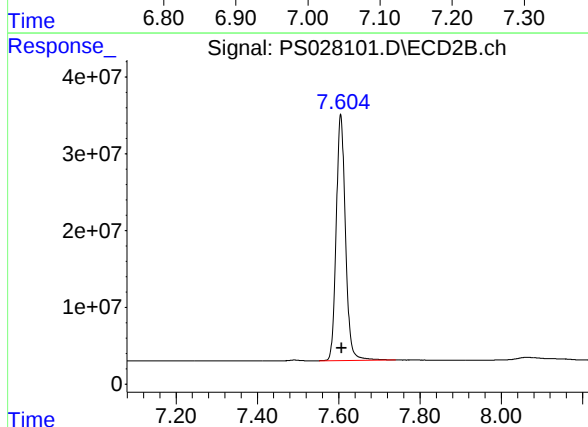




#4 2,4-DCAA

R.T.: 7.062 min
Delta R.T.: 0.000 min
Response: 1554839546
Conc: 496.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.605 min
Delta R.T.: -0.002 min
Response: 506963645
Conc: 507.40 ng/ml

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/01/24	
Project:	R36704		Date Received:	11/01/24	
Client Sample ID:	PIBLK-PS028145.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028145.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028145.D	1		11/01/24	PS103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	553		39 - 175	111%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028145.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 04:54
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 01 05:36:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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	7.064	7.612	1656.6E6	552.7E6	529.482	553.133
------	----------	-------	-------	----------	---------	---------	---------

Target Compounds

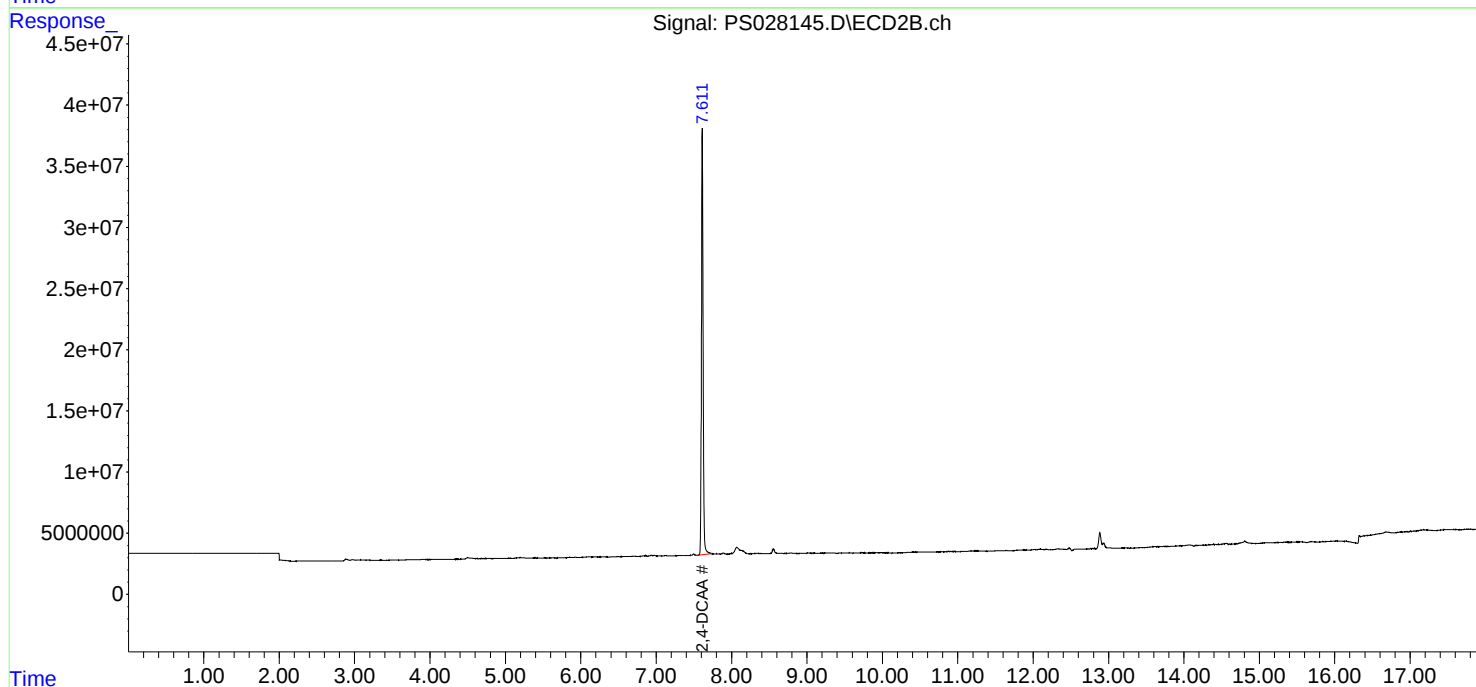
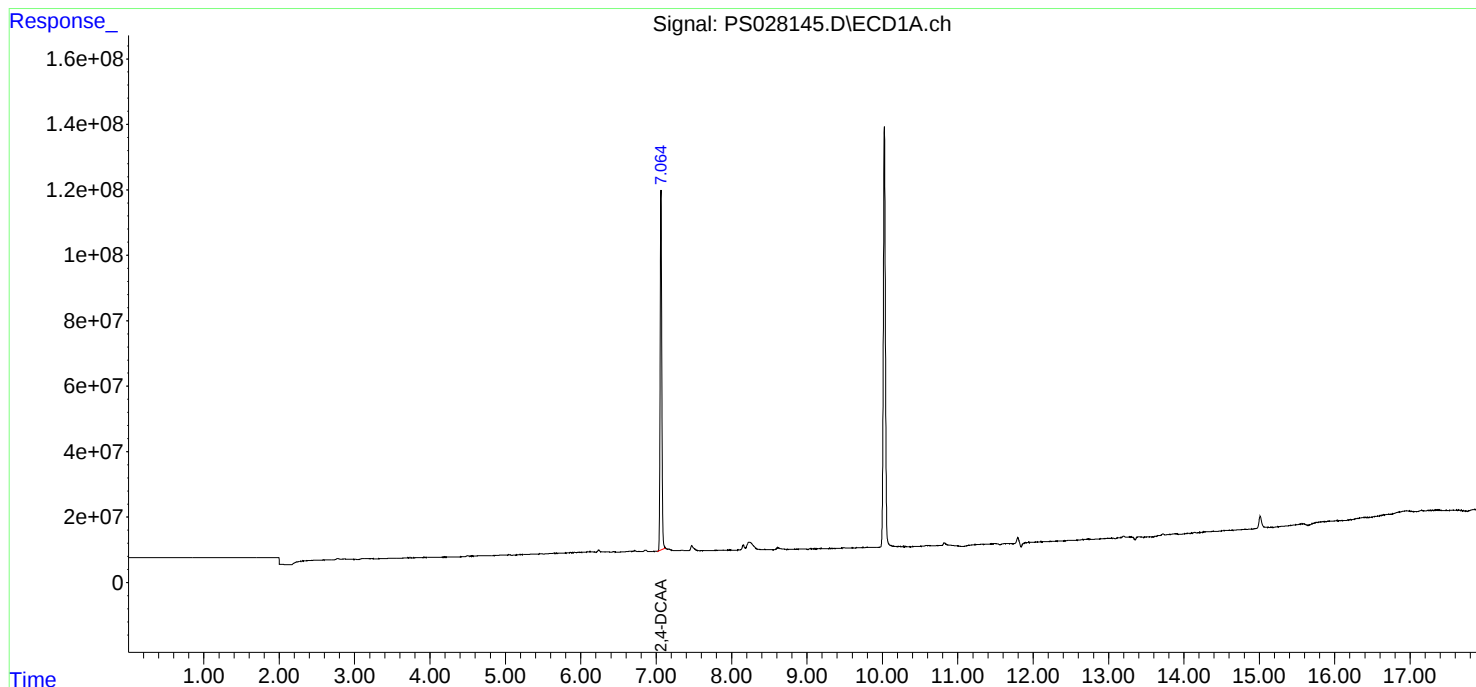
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

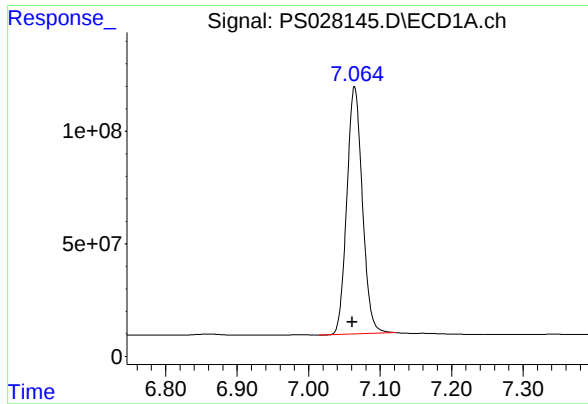
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028145.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 04:54
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 05:36:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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

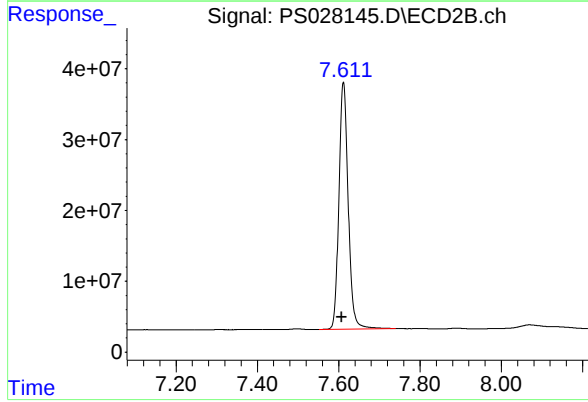




#4 2,4-DCAA

R.T.: 7.064 min
Delta R.T.: 0.003 min
Response: 1656616126
Conc: 529.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.612 min
Delta R.T.: 0.004 min
Response: 552660035
Conc: 553.13 ng/ml

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/01/24
Project:	R36704	Date Received:	11/01/24
Client Sample ID:	PIBLK-PS028157.D	SDG No.:	P4593
Lab Sample ID:	I.BLK-PS028157.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028157.D	1		11/01/24	PS103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	533		39 - 175	107%	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\PS103124\
Data File : PS028157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 10:07
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 04 02:28:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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	7.064	7.605	1666.1E6	527.1E6	532.528	527.508
------	----------	-------	-------	----------	---------	---------	---------

Target Compounds

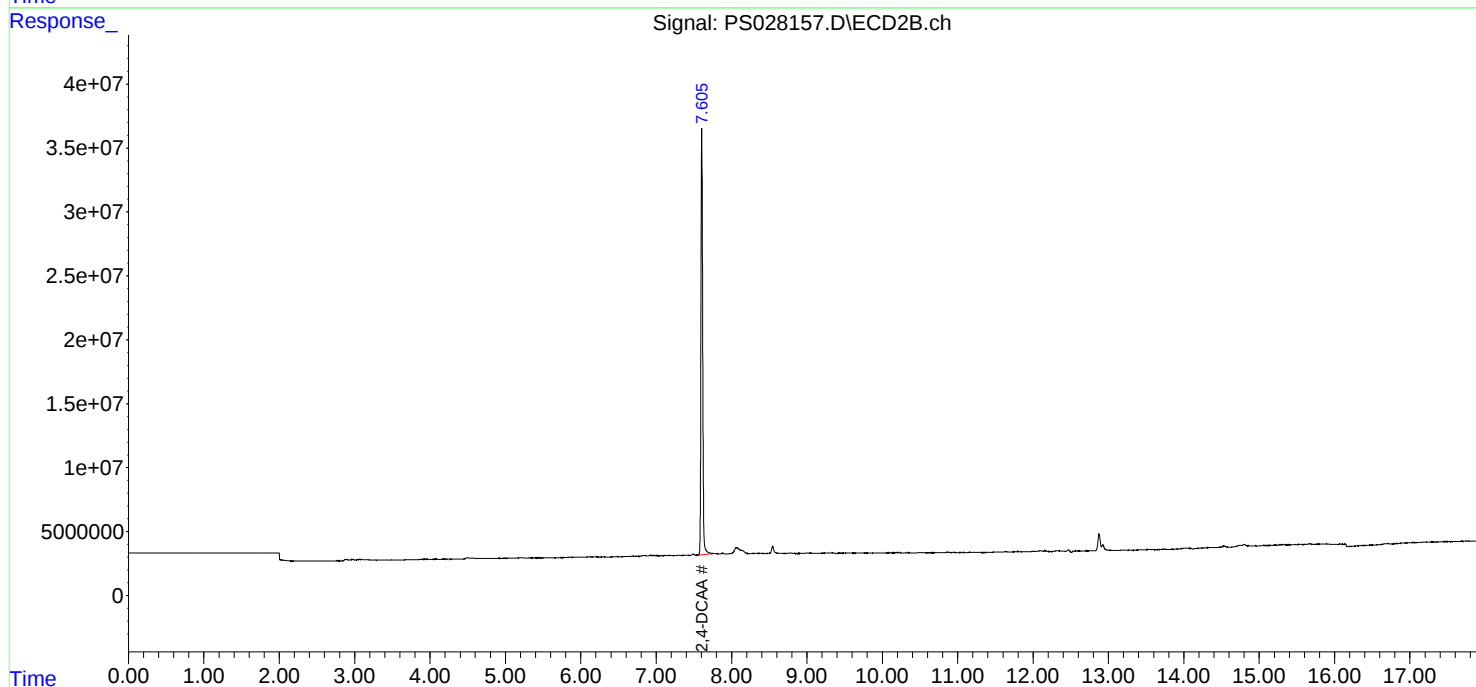
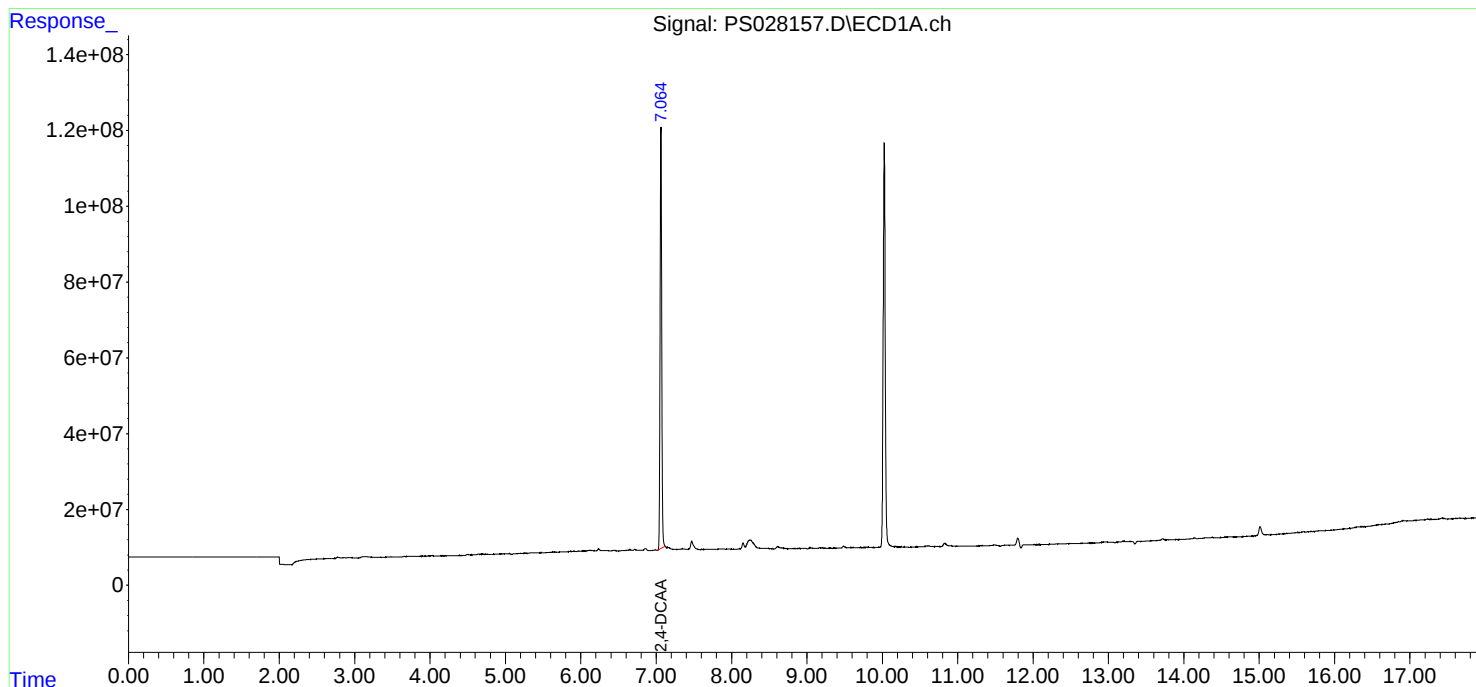
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

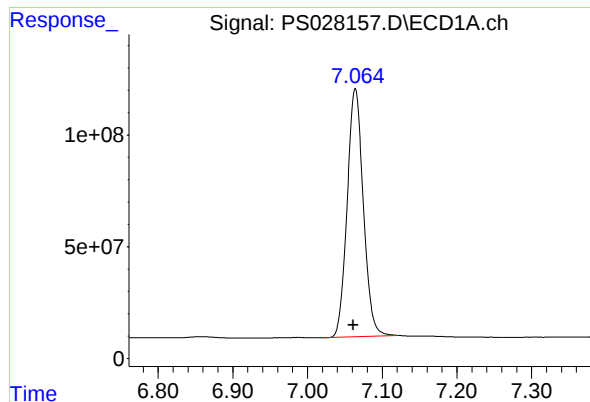
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 10:07
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 02:28:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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.: 7.064 min

Delta R.T.: 0.003 min

Response: 1666144625

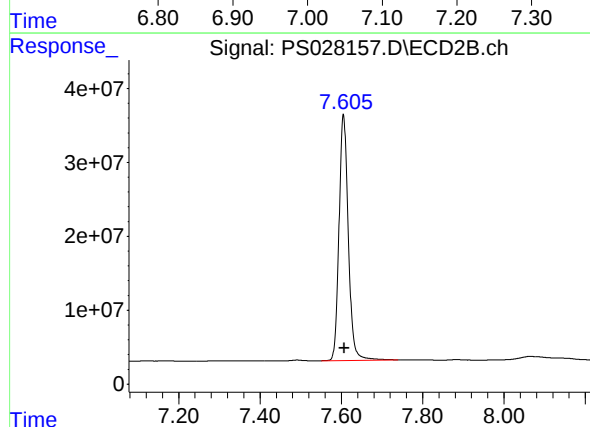
Conc: 532.53 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.605 min

Delta R.T.: -0.002 min

Response: 527056840

Conc: 527.51 ng/ml

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/01/24	
Project:	R36704		Date Received:	11/01/24	
Client Sample ID:	PIBLK-PS028167.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028167.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028167.D	1		11/01/24	PS103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	537		39 - 175	107%	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\PS103124\
Data File : PS028167.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 14:55
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 04 02:32:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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	7.065	7.606	1680.2E6	532.7E6	537.024	533.145
------	----------	-------	-------	----------	---------	---------	---------

Target Compounds

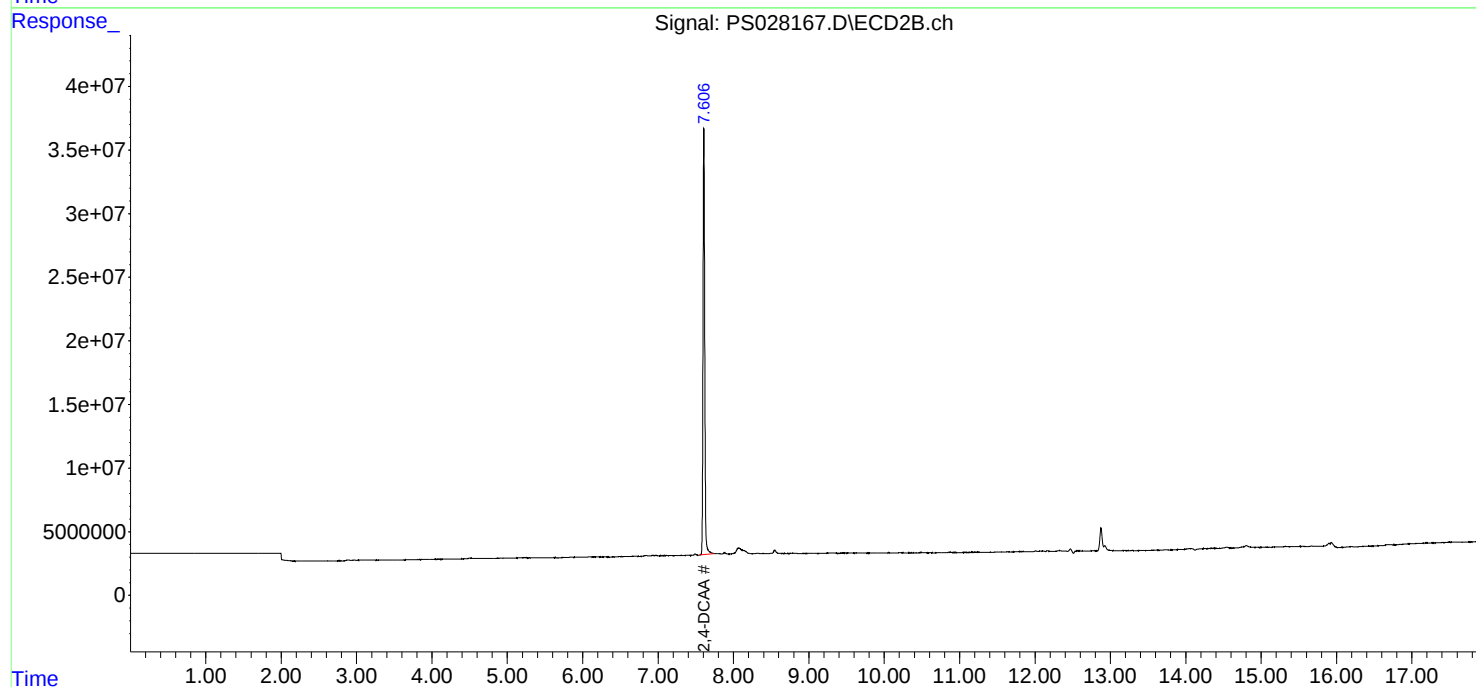
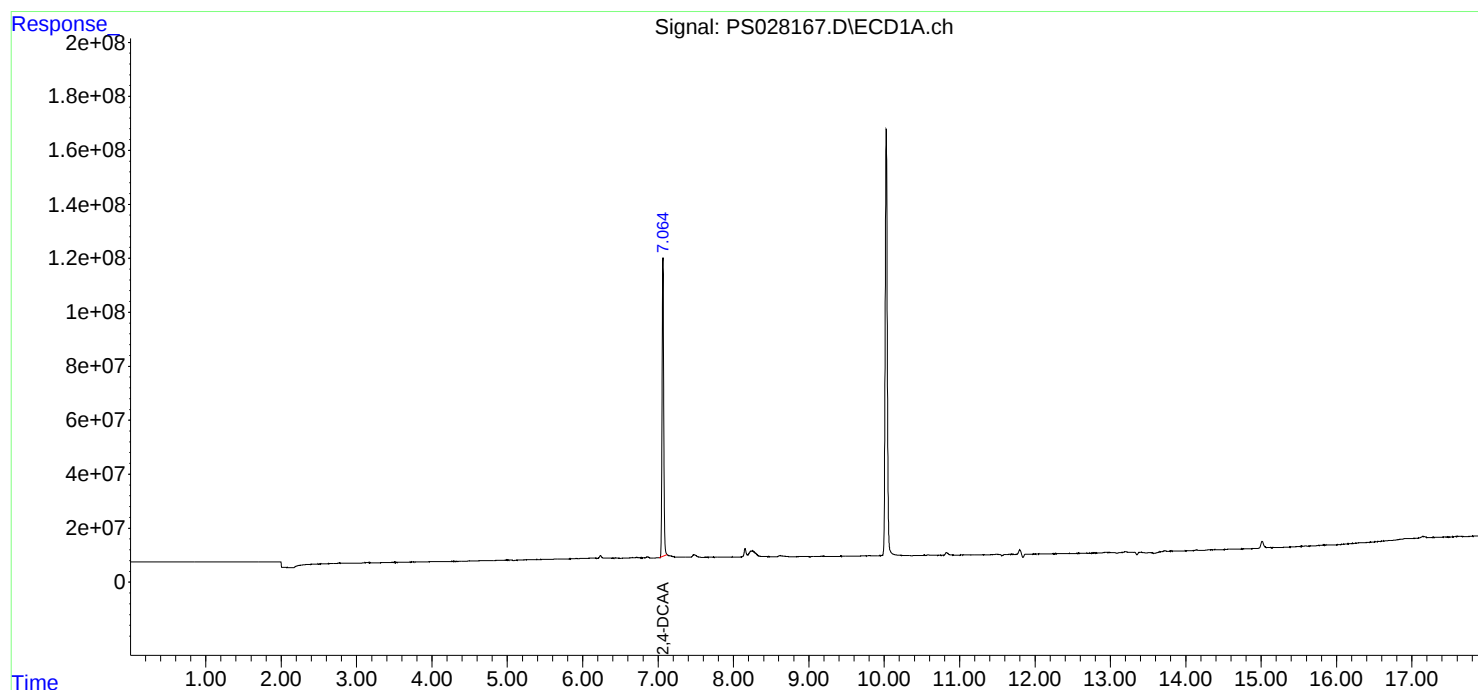
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

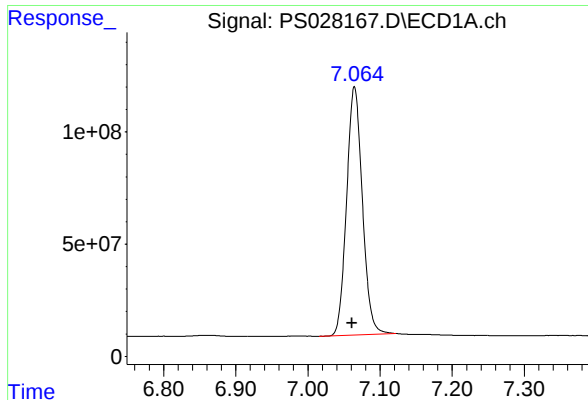
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS103124\
Data File : PS028167.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 14:55
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 02:32:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS103124.M
Quant Title : 8080.M
QLast Update : Thu Oct 31 13:10:03 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.: 7.065 min

Delta R.T.: 0.003 min

Response: 1680211509

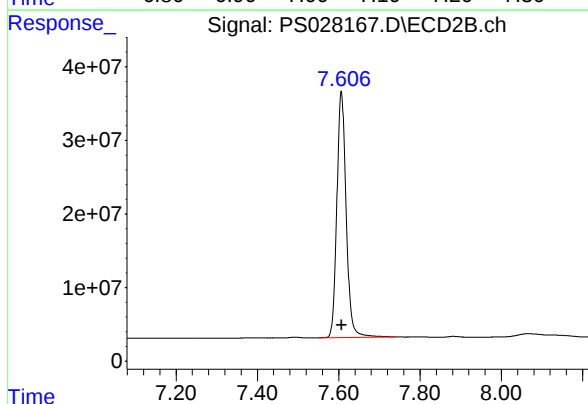
Conc: 537.02 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.606 min

Delta R.T.: 0.000 min

Response: 532689144

Conc: 533.15 ng/ml

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/06/24
Project:	R36704	Date Received:	11/06/24
Client Sample ID:	PIBLK-PS028252.D	SDG No.:	P4593
Lab Sample ID:	I.BLK-PS028252.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028252.D	1		11/06/24	PS110624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	491		39 - 175	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\PS110624\
Data File : PS028252.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 09:24
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 06 11:48:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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	7.262	7.764	1253.5E6	855.9E6	489.362	491.394

Target Compounds

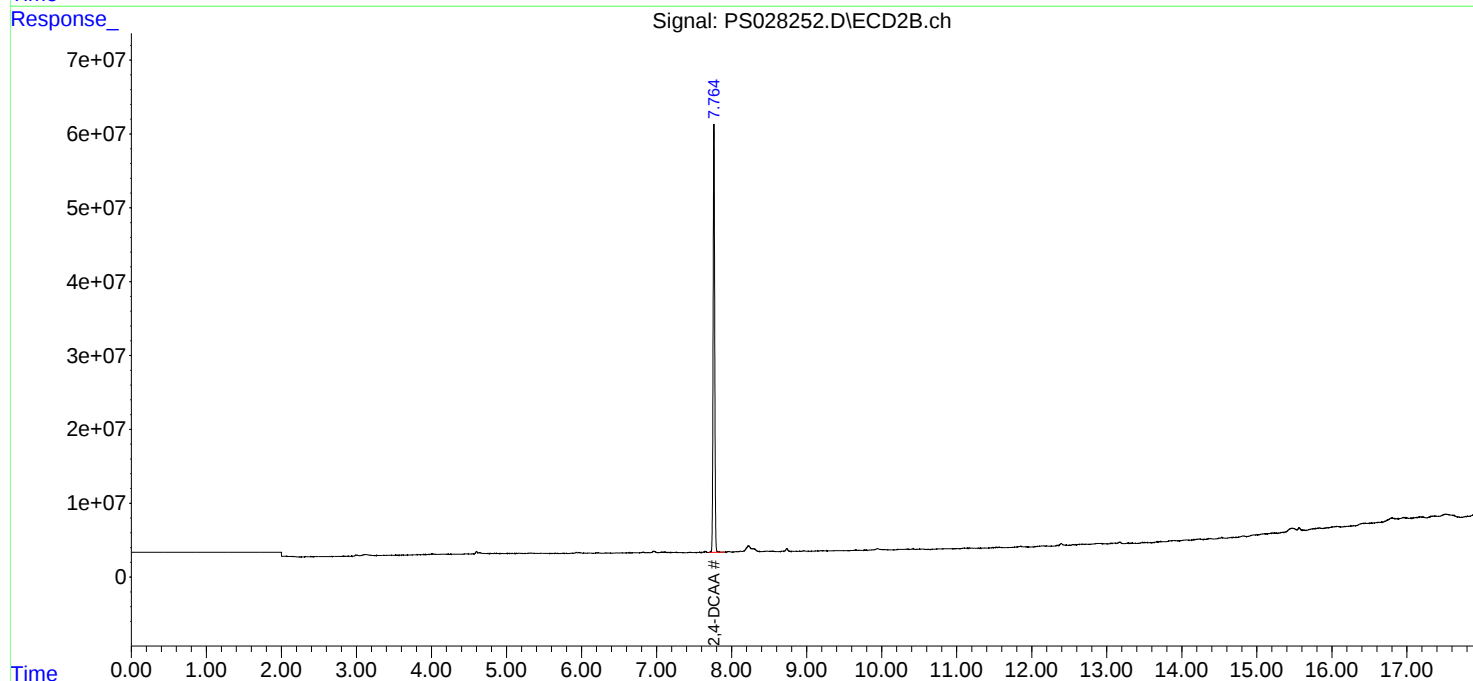
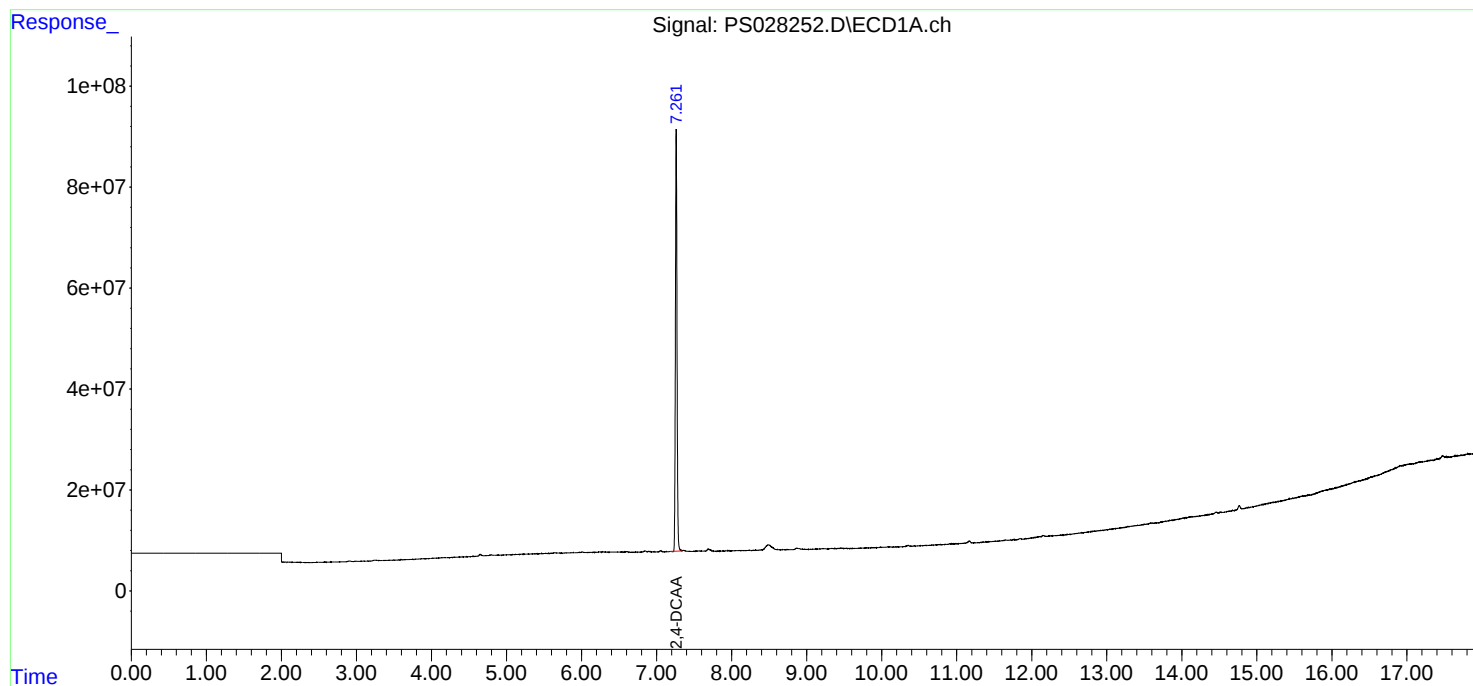
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028252.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 09:24
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

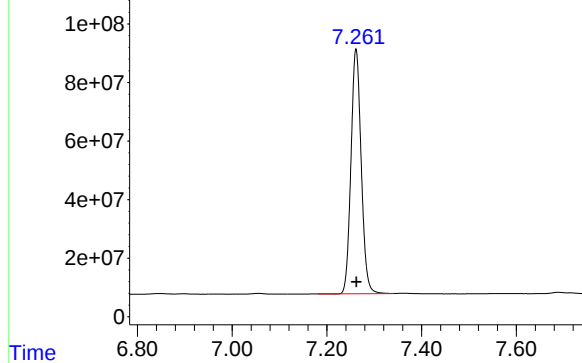
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 11:48:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

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: PS028252.D\ECD1A.ch

#4 2,4-DCAA

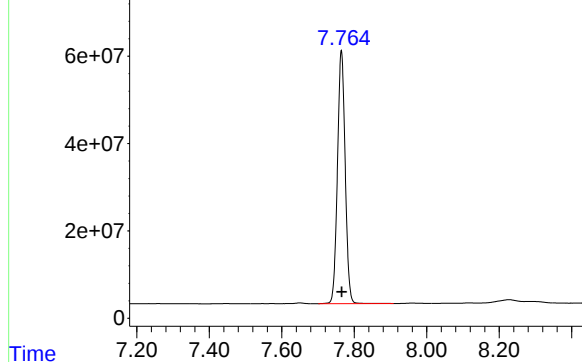


R.T.: 7.262 min
Delta R.T.: 0.000 min
Response: 1253458597
Conc: 489.36 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028252.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.764 min
Delta R.T.: 0.000 min
Response: 855899732
Conc: 491.39 ng/ml

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/06/24	
Project:	R36704		Date Received:	11/06/24	
Client Sample ID:	PIBLK-PS028283.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028283.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028283.D	1		11/06/24	PS110624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	529		39 - 175	106%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028283.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 22:39
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:54:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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	7.260	7.763	1355.0E6	899.1E6	529.013m	516.170

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028283.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 22:39
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

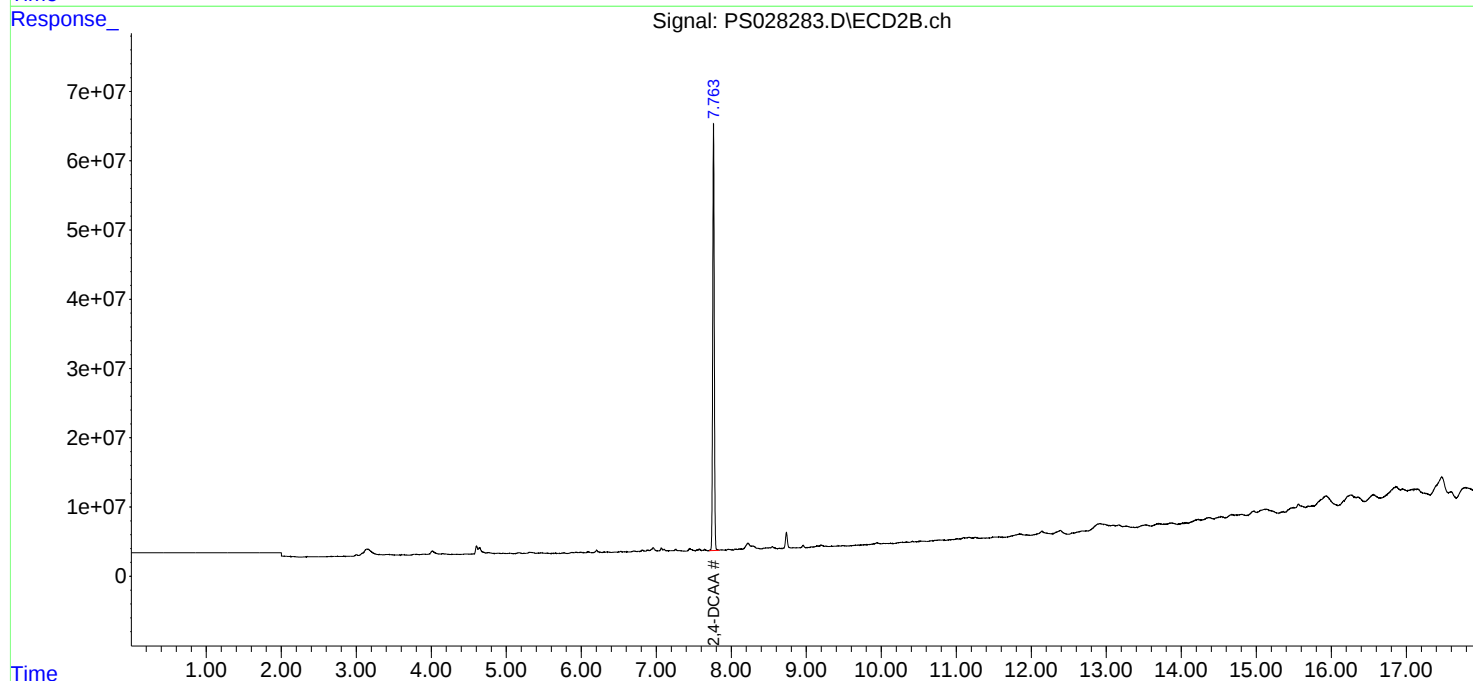
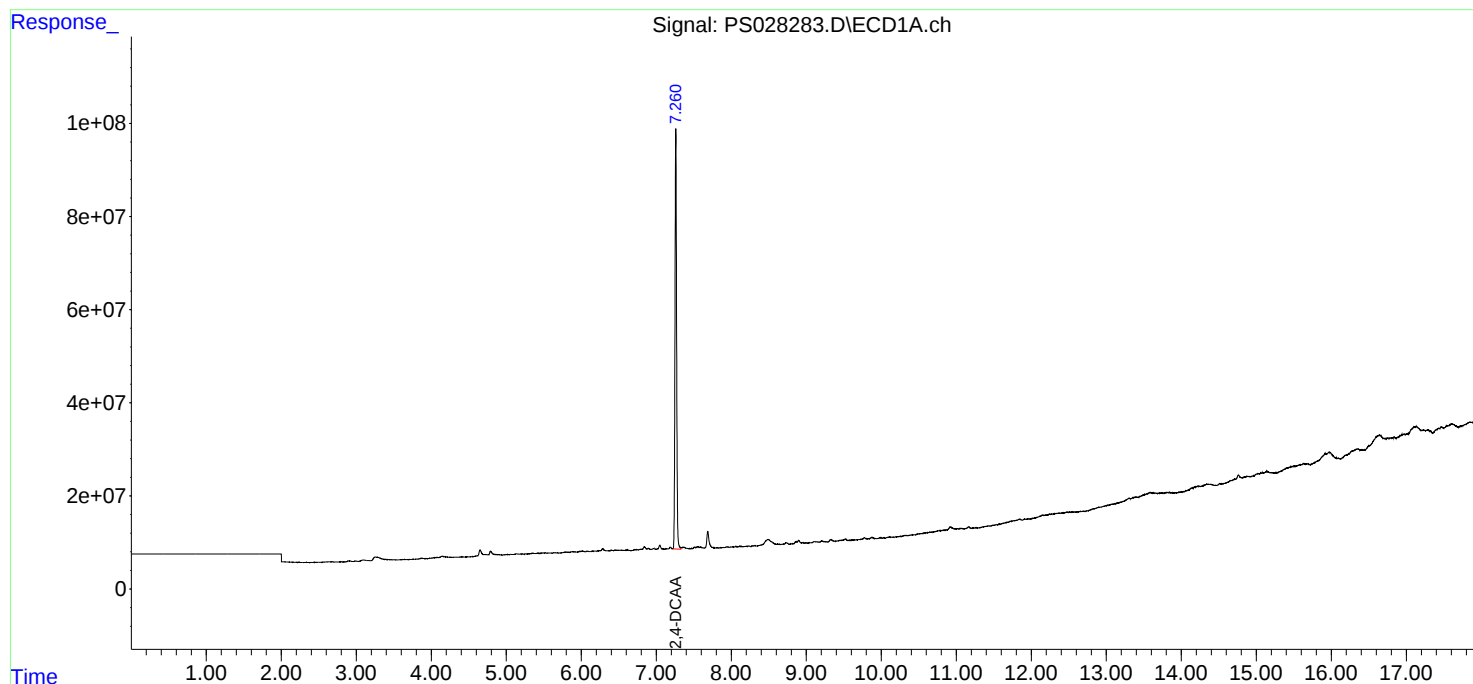
Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:54:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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: PS028283.D\ECD1A.ch

#4 2,4-DCAA

R.T.: 7.260 min
Delta R.T.: -0.003 min
Response: 1355020064
Conc: 529.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time

Response_ Signal: PS028283.D\ECD2B.ch

#4 2,4-DCAA

R.T.: 7.763 min
Delta R.T.: -0.002 min
Response: 899054821
Conc: 516.17 ng/ml

Time

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/07/24	
Project:	R36704		Date Received:	11/07/24	
Client Sample ID:	PIBLK-PS028296.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028296.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028296.D	1		11/07/24	PS110624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	530		39 - 175	106%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028296.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 04:16
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 07 09:06:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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	7.258	7.762	1356.6E6	885.4E6	529.635	508.347

Target Compounds

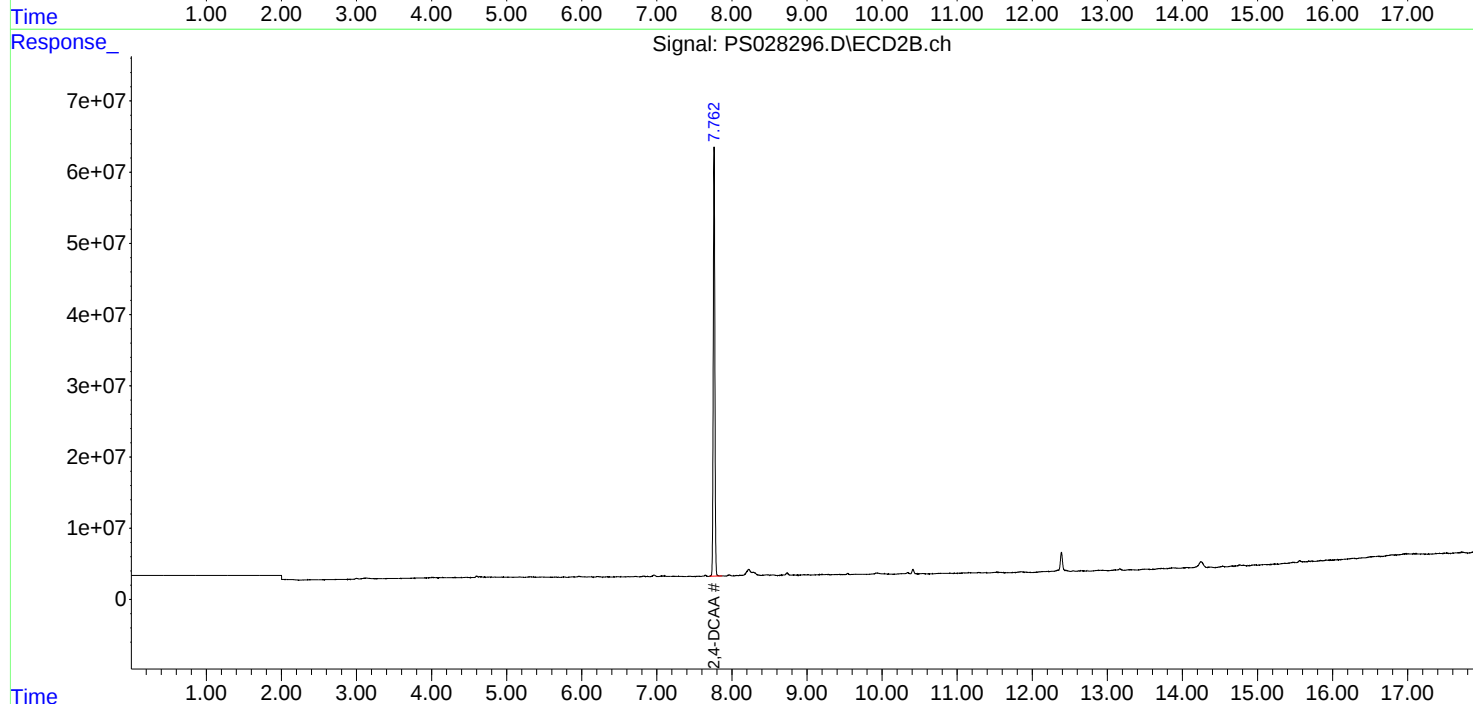
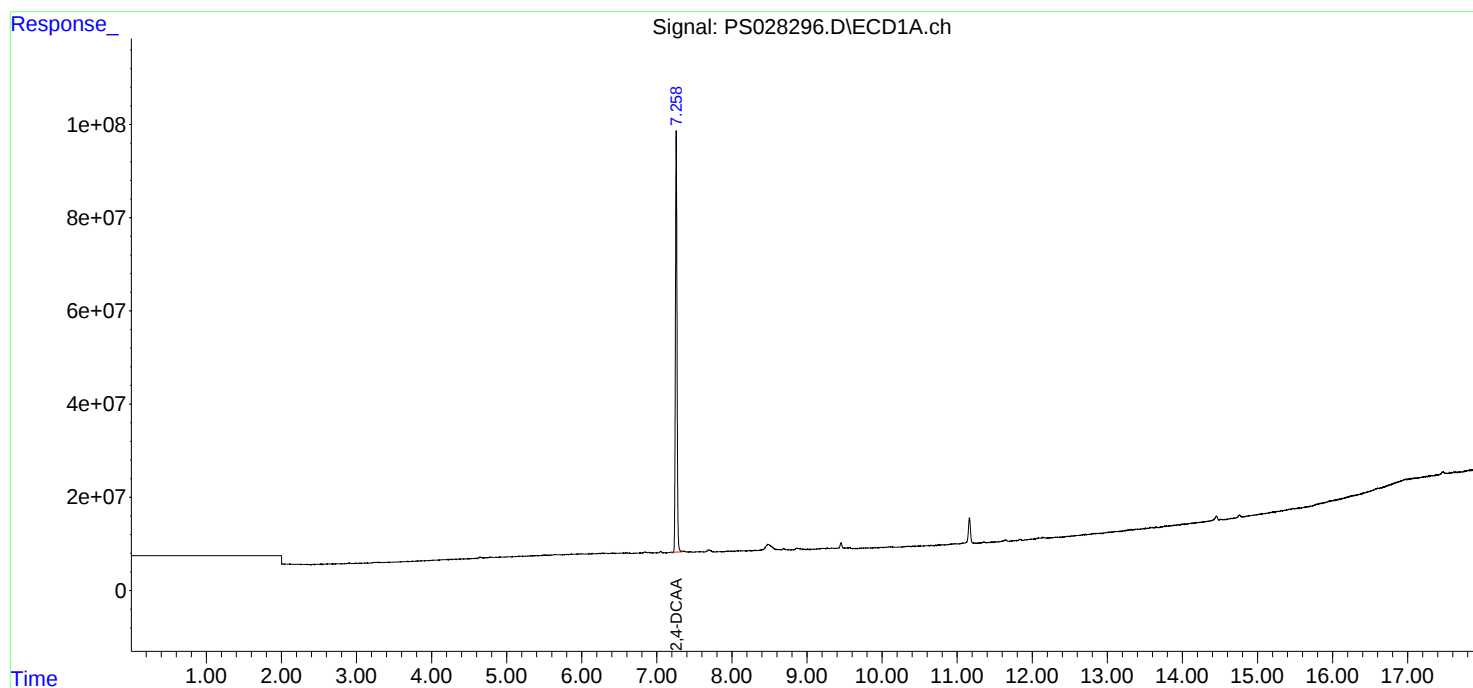
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028296.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 04:16
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

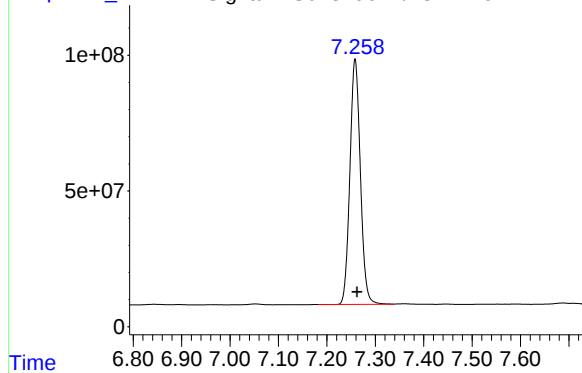
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 09:06:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

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: PS028296.D\ECD1A.ch

#4 2,4-DCAA

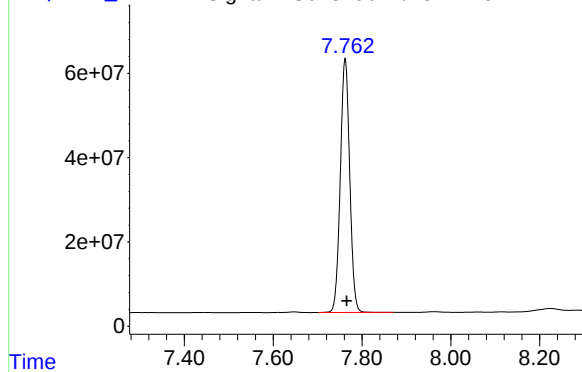


R.T.: 7.258 min
Delta R.T.: -0.004 min
Response: 1356615264
Conc: 529.64 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028296.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.762 min
Delta R.T.: -0.003 min
Response: 885429243
Conc: 508.35 ng/ml

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36704	Date Received:	
Client Sample ID:	PB164494BS	SDG No.:	P4593
Lab Sample ID:	PB164494BS	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS028286.D	1	10/28/24 13:45	11/07/24 00:15	PB164494

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	5.20		0.42	2.00	ug/L
120-36-5	DICHLORPROP	5.30		0.43	2.00	ug/L
94-75-7	2,4-D	5.30		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.40		0.45	2.00	ug/L
93-76-5	2,4,5-T	5.40		0.50	2.00	ug/L
94-82-6	2,4-DB	5.30		0.57	2.00	ug/L
88-85-7	DINOSEB	5.40		0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	559		39 - 175	112%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028286.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Nov 2024 00:15
 Operator : AR\AJ
 Sample : PB164494BS
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB164494BS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 07 03:16:51 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.259	7.762	1432.3E6	930.3E6	559.186	534.135
Target Compounds						
1) T Dalapon	2.653	2.709	1640.5E6	1366.4E6	460.933	464.366
2) T 3,5-DICHL...	6.428	6.713	1919.1E6	1269.1E6	511.937	501.427
3) T 4-Nitroph...	7.059	7.289	824.0E6	536.1E6	500.119	467.803
5) T DICAMBA	7.449	7.964	5847.2E6	4070.0E6	520.742	506.693
6) T MCPP	7.631	8.064	409.4E6	315.3E6	53.988m	51.940
7) T MCPA	7.781	8.310	526.9E6	421.8E6	50.607	50.583
8) T DICHLORPROP	8.159	8.681	1495.8E6	1000.6E6	530.553	498.018
9) T 2,4-D	8.390	9.013	1673.1E6	1097.8E6	530.112	492.274
10) T Pentachlo...	8.690	9.543	23446.9E6	14922.7E6	564.134	511.672
11) T 2,4,5-TP ...	9.273	9.919	9268.7E6	6327.4E6	544.395	508.524
12) T 2,4,5-T	9.565	10.342	9442.0E6	6142.7E6	544.661	500.757
13) T 2,4-DB	10.142	10.909	1502.9E6	758.0E6	531.704	478.269
14) T DINOSEB	11.360	11.289	7817.9E6	4225.1E6	540.697	484.438
15) T Picloram	11.164	12.389	15287.1E6	8501.3E6	527.162	471.452
16) T DCPA	11.652	12.336	13174.7E6	6831.9E6	554.509	487.624

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028286.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 00:15
Operator : AR\AJ
Sample : PB164494BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :

ECD_S

Client Sample Id :

PB164494BS

Manual Integrations

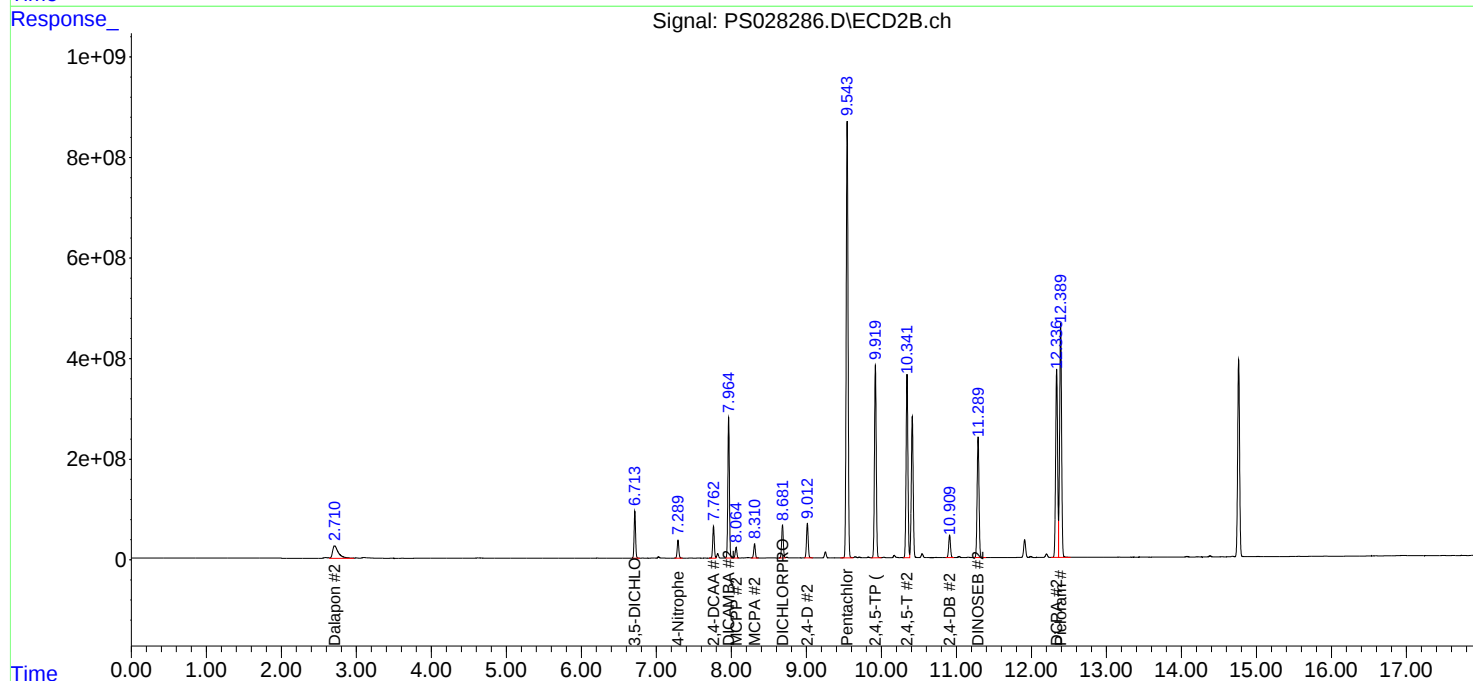
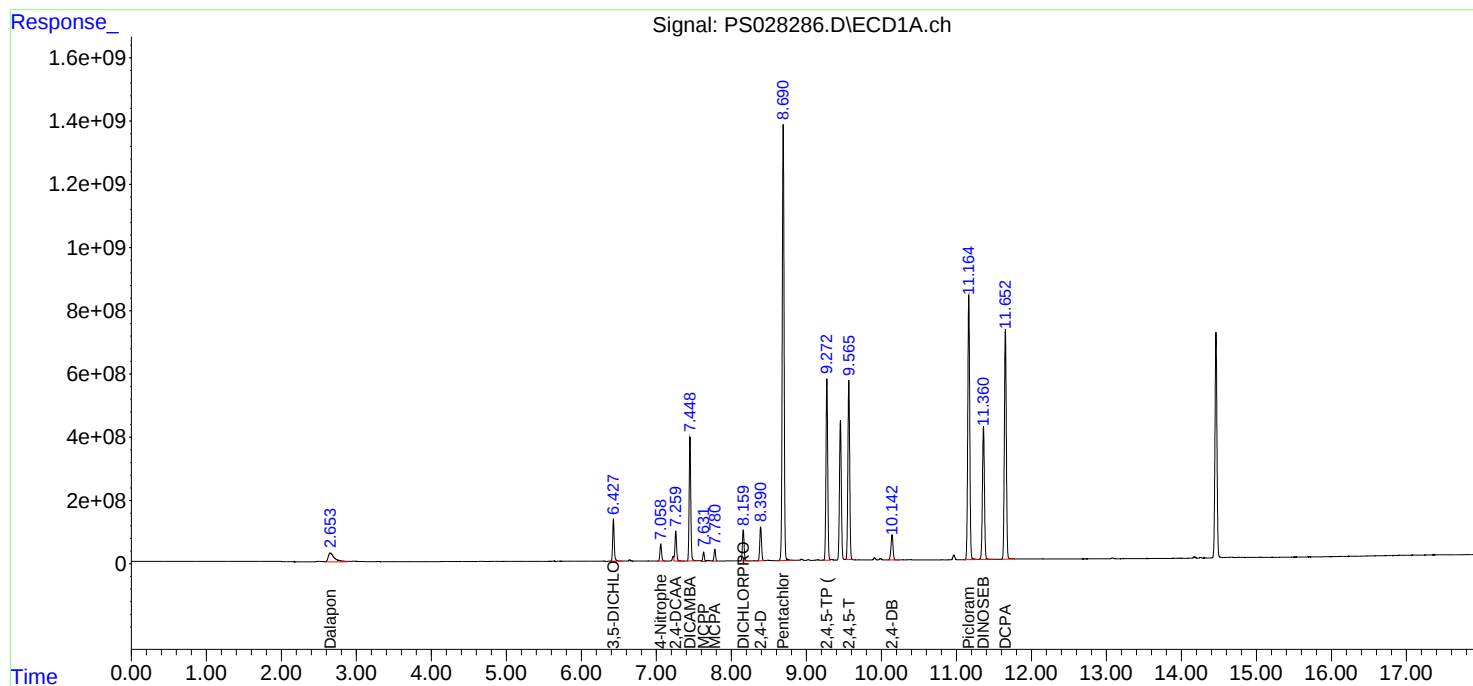
APPROVED

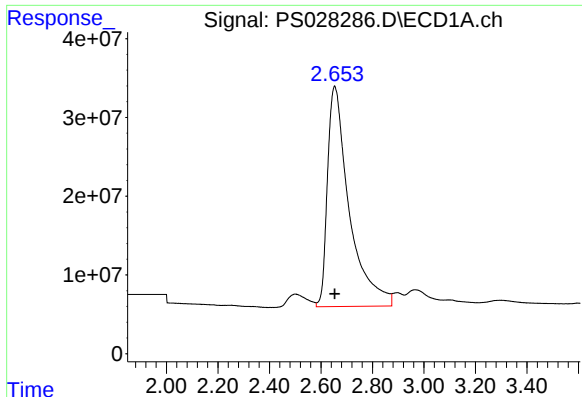
Reviewed By : Abdul Mirza 11/08/2024

Supervised By : Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 03:16:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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





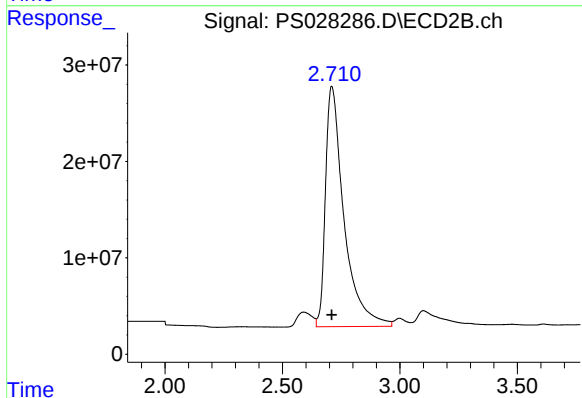
#1 Dalapon

R.T.: 2.653 min
Delta R.T.: 0.000 min
Response: 1640548978
Conc: 460.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BS

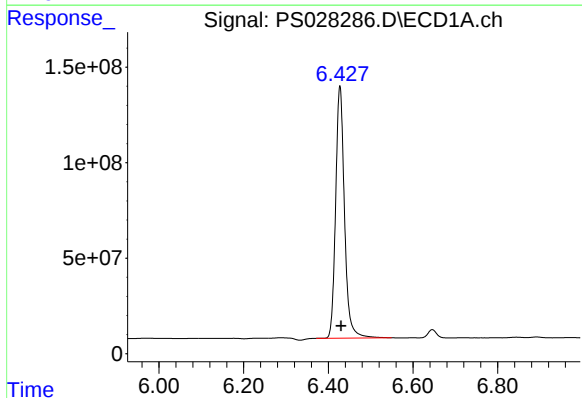
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



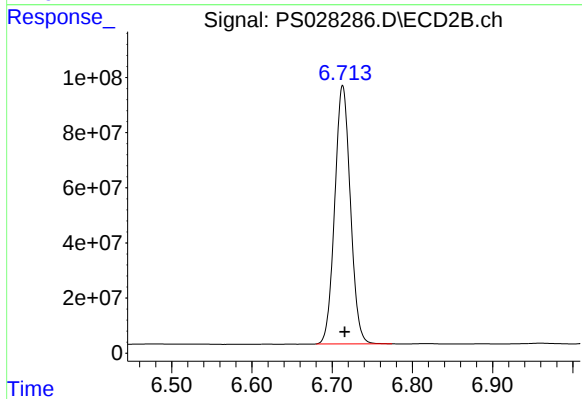
#1 Dalapon

R.T.: 2.709 min
Delta R.T.: 0.000 min
Response: 1366393475
Conc: 464.37 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

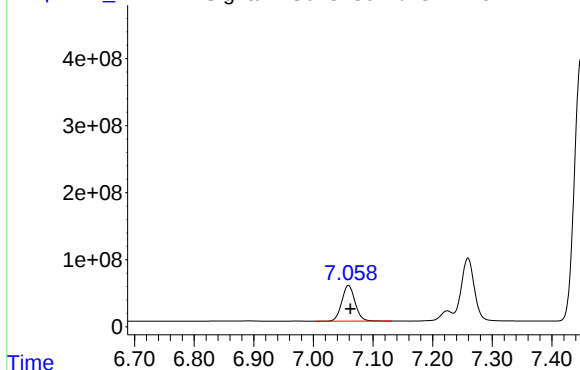
R.T.: 6.428 min
Delta R.T.: -0.003 min
Response: 1919138381
Conc: 511.94 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.713 min
Delta R.T.: -0.003 min
Response: 1269063907
Conc: 501.43 ng/ml

Response_ Signal: PS028286.D\ECD1A.ch



#3 4-Nitrophenol

R.T.: 7.059 min
Delta R.T.: -0.003 min
Response: 823979565
Conc: 500.12 ng/ml

Instrument :

ECD_S

ClientSampleId :

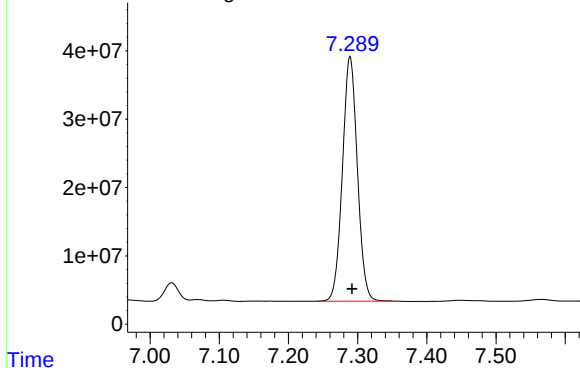
PB164494BS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

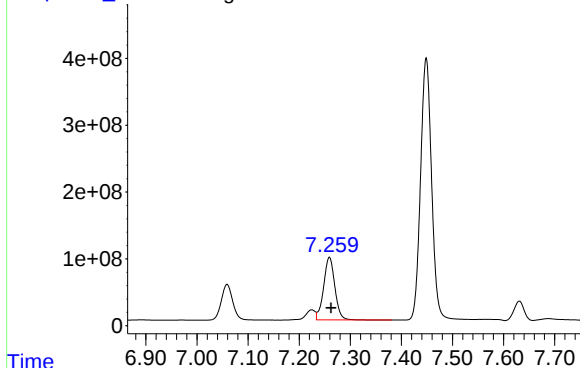
Response_ Signal: PS028286.D\ECD2B.ch



#3 4-Nitrophenol

R.T.: 7.289 min
Delta R.T.: -0.003 min
Response: 536076566
Conc: 467.80 ng/ml

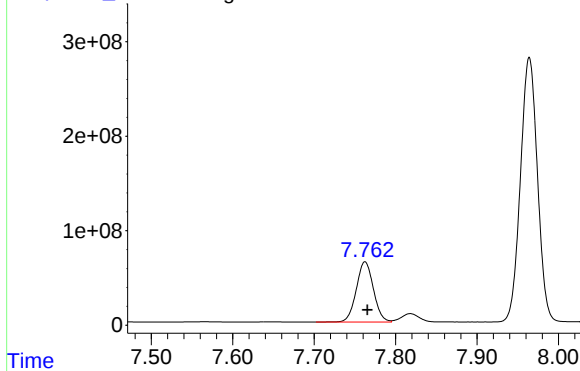
Response_ Signal: PS028286.D\ECD1A.ch



#4 2,4-DCAA

R.T.: 7.259 min
Delta R.T.: -0.003 min
Response: 1432305627
Conc: 559.19 ng/ml

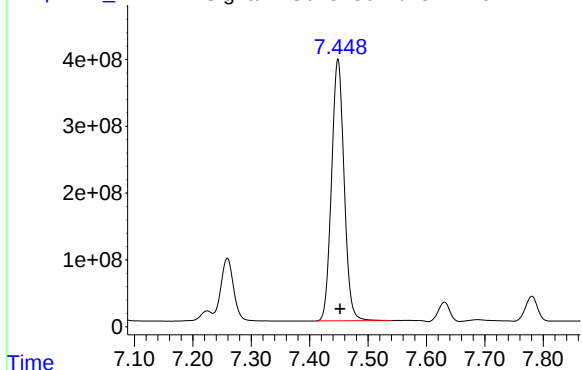
Response_ Signal: PS028286.D\ECD2B.ch



#4 2,4-DCAA

R.T.: 7.762 min
Delta R.T.: -0.003 min
Response: 930345260
Conc: 534.13 ng/ml

Response_ Signal: PS028286.D\ECD1A.ch



#5 DICAMBA

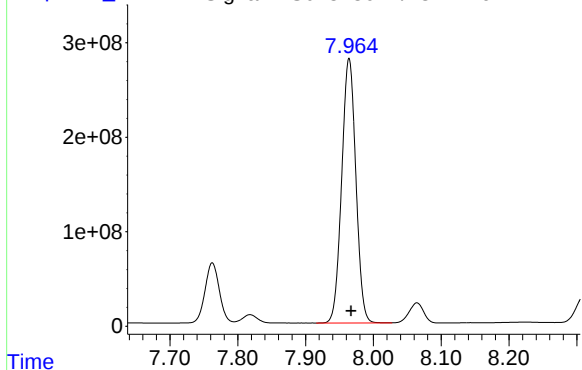
R.T.: 7.449 min
Delta R.T.: -0.004 min
Response: 5847174868
Conc: 520.74 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

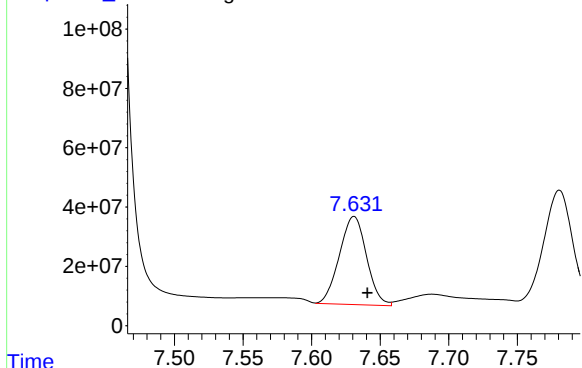
Response_ Signal: PS028286.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.964 min
Delta R.T.: -0.003 min
Response: 4070044174
Conc: 506.69 ng/ml

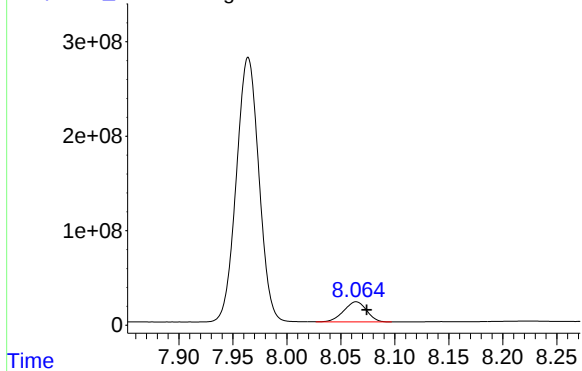
Response_ Signal: PS028286.D\ECD1A.ch



#6 MCP

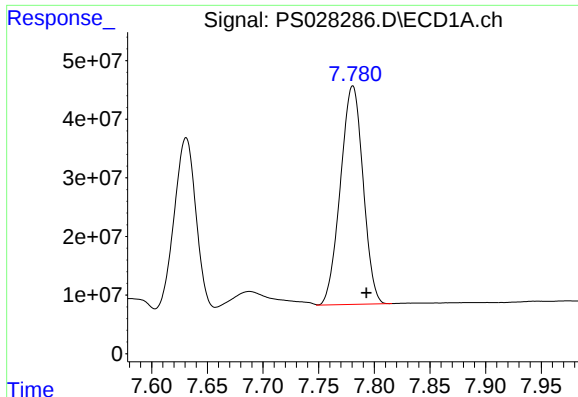
R.T.: 7.631 min
Delta R.T.: -0.010 min
Response: 409367971
Conc: 53.99 ug/ml m

Response_ Signal: PS028286.D\ECD2B.ch



#6 MCP

R.T.: 8.064 min
Delta R.T.: -0.010 min
Response: 315343761
Conc: 51.94 ug/ml



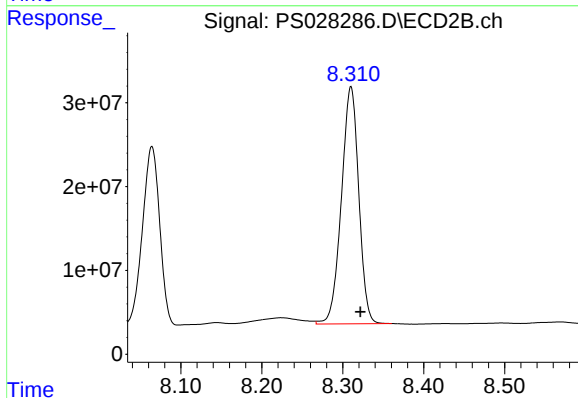
#7 MCPA

R.T.: 7.781 min
Delta R.T.: -0.012 min
Response: 526876421
Conc: 50.61 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BS

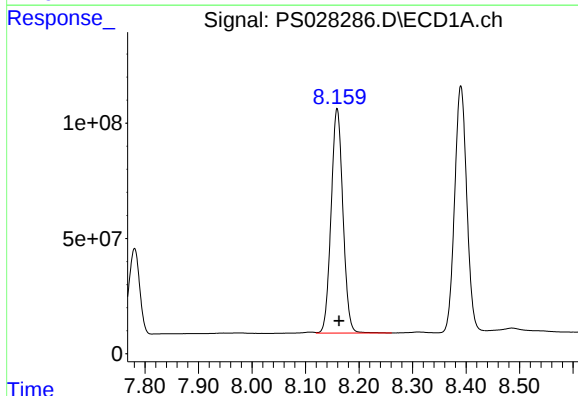
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



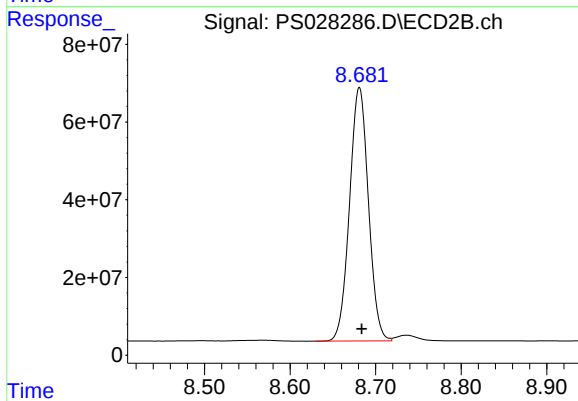
#7 MCPA

R.T.: 8.310 min
Delta R.T.: -0.012 min
Response: 421795290
Conc: 50.58 ug/ml



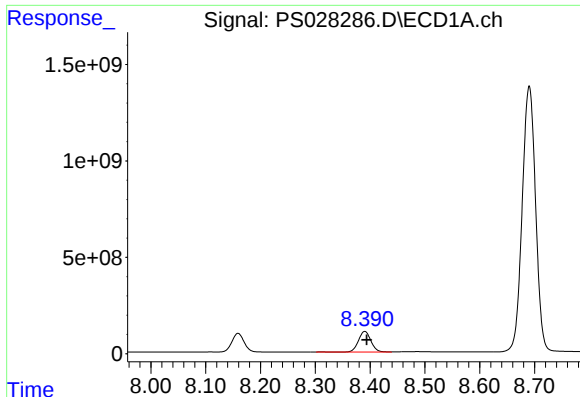
#8 DICHLORPROP

R.T.: 8.159 min
Delta R.T.: -0.004 min
Response: 1495777078
Conc: 530.55 ng/ml



#8 DICHLORPROP

R.T.: 8.681 min
Delta R.T.: -0.003 min
Response: 1000639185
Conc: 498.02 ng/ml



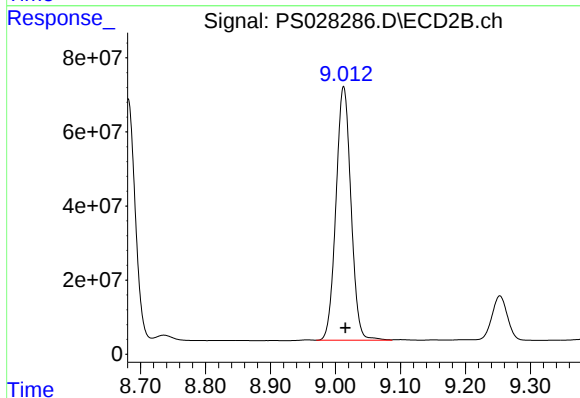
#9 2,4-D

R.T.: 8.390 min
Delta R.T.: -0.003 min
Response: 1673089639
Conc: 530.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BS

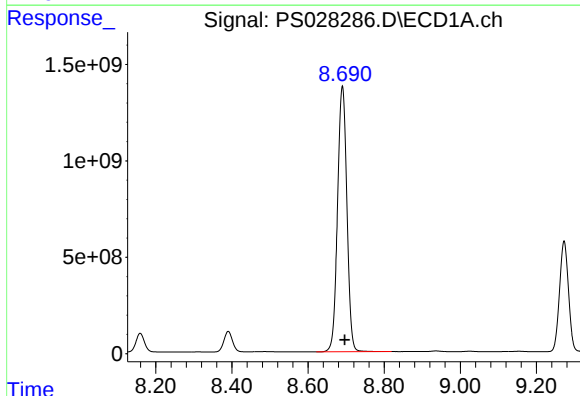
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



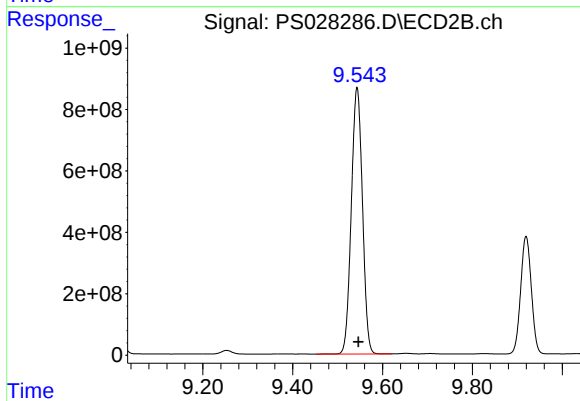
#9 2,4-D

R.T.: 9.013 min
Delta R.T.: -0.003 min
Response: 1097839637
Conc: 492.27 ng/ml



#10 Pentachlorophenol

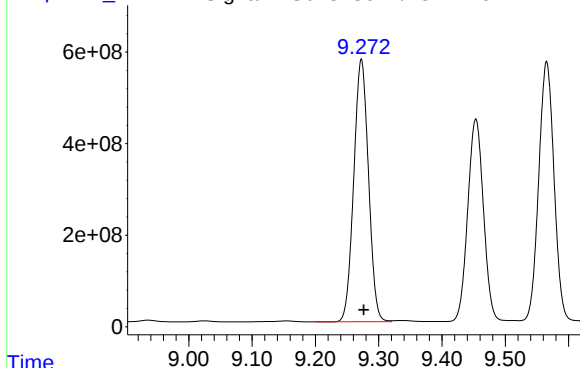
R.T.: 8.690 min
Delta R.T.: -0.006 min
Response: 23446924839
Conc: 564.13 ng/ml



#10 Pentachlorophenol

R.T.: 9.543 min
Delta R.T.: -0.003 min
Response: 14922749406
Conc: 511.67 ng/ml

Response_ Signal: PS028286.D\ECD1A.ch



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

R.T.: 9.273 min
Delta R.T.: -0.004 min
Response: 9268670646
Conc: 544.40 ng/ml

Instrument :

ECD_S

ClientSampleId :

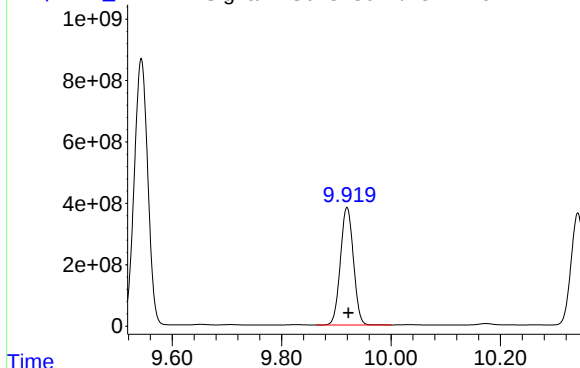
PB164494BS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

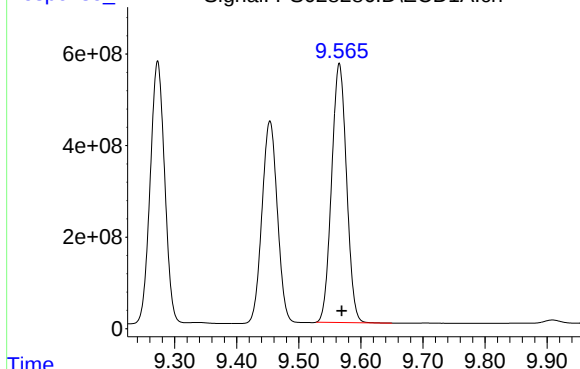
Time Response_ Signal: PS028286.D\ECD2B.ch



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

R.T.: 9.919 min
Delta R.T.: -0.003 min
Response: 6327405160
Conc: 508.52 ng/ml

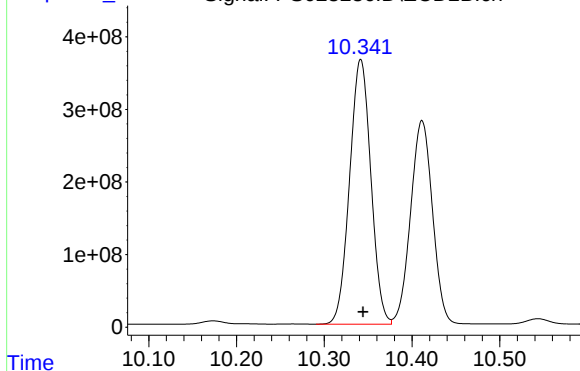
Time Response_ Signal: PS028286.D\ECD1A.ch



#12 2,4,5-T

R.T.: 9.565 min
Delta R.T.: -0.004 min
Response: 9441981847
Conc: 544.66 ng/ml

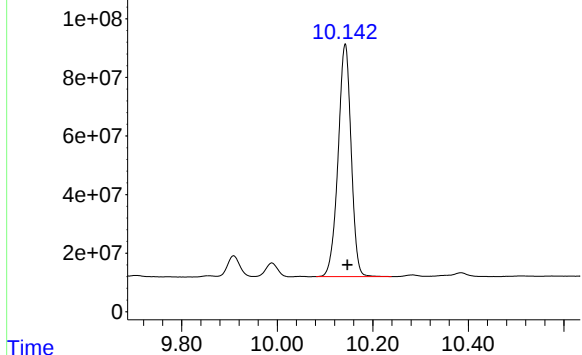
Time Response_ Signal: PS028286.D\ECD2B.ch



#12 2,4,5-T

R.T.: 10.342 min
Delta R.T.: -0.003 min
Response: 6142681452
Conc: 500.76 ng/ml

Response_ Signal: PS028286.D\ECD1A.ch



#13 2,4-DB

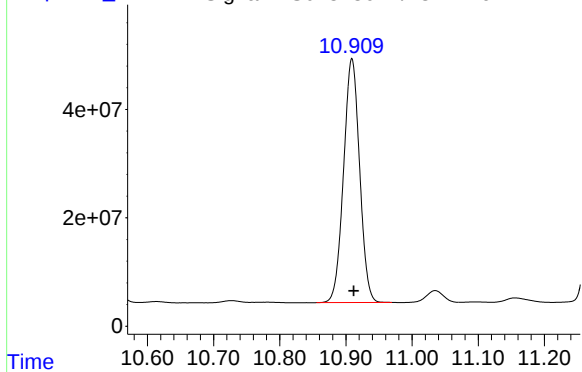
R.T.: 10.142 min
Delta R.T.: -0.005 min
Response: 1502878553
Conc: 531.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

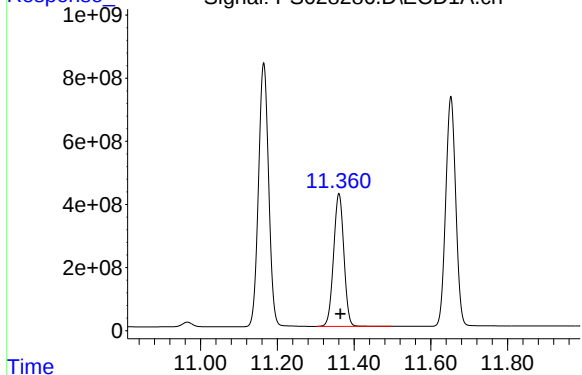
Time Response_ Signal: PS028286.D\ECD2B.ch



#13 2,4-DB

R.T.: 10.909 min
Delta R.T.: -0.003 min
Response: 758008443
Conc: 478.27 ng/ml

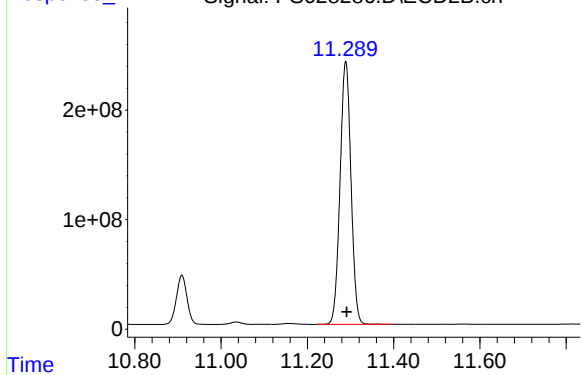
Time Response_ Signal: PS028286.D\ECD1A.ch



#14 DINOSEB

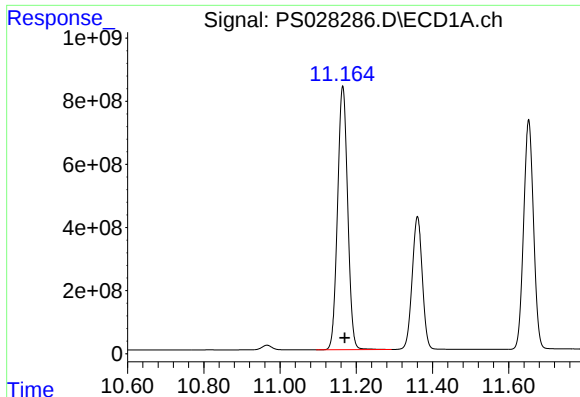
R.T.: 11.360 min
Delta R.T.: -0.004 min
Response: 7817923807
Conc: 540.70 ng/ml

Time Response_ Signal: PS028286.D\ECD2B.ch



#14 DINOSEB

R.T.: 11.289 min
Delta R.T.: -0.003 min
Response: 4225101091
Conc: 484.44 ng/ml



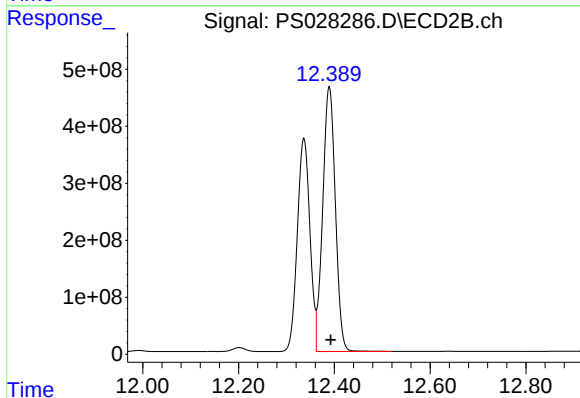
#15 Picloram

R.T.: 11.164 min
Delta R.T.: -0.005 min
Response: 15287106502
Conc: 527.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BS

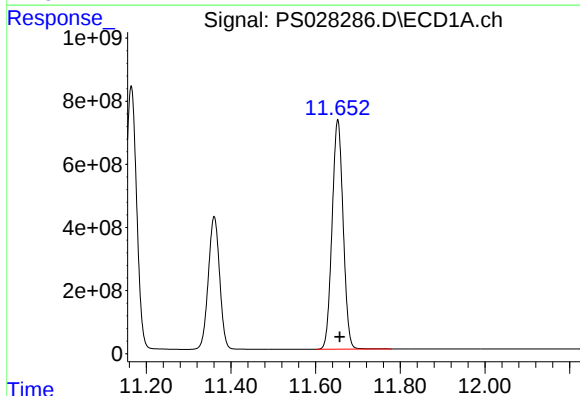
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



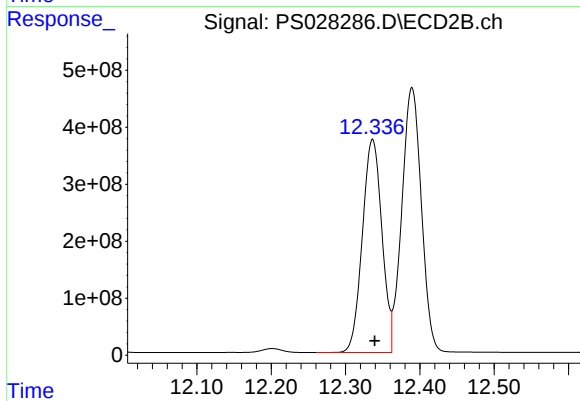
#15 Picloram

R.T.: 12.389 min
Delta R.T.: -0.003 min
Response: 8501293662
Conc: 471.45 ng/ml



#16 DCPA

R.T.: 11.652 min
Delta R.T.: -0.004 min
Response: 13174745063
Conc: 554.51 ng/ml



#16 DCPA

R.T.: 12.336 min
Delta R.T.: -0.003 min
Response: 6831857478
Conc: 487.62 ng/ml

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36704	Date Received:	
Client Sample ID:	PB164494BSD	SDG No.:	P4593
Lab Sample ID:	PB164494BSD	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS028287.D	1	10/28/24 13:45	11/07/24 00:39	PB164494

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	5.10		0.42	2.00	ug/L
120-36-5	DICHLORPROP	5.20		0.43	2.00	ug/L
94-75-7	2,4-D	5.30		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.40		0.45	2.00	ug/L
93-76-5	2,4,5-T	5.40		0.50	2.00	ug/L
94-82-6	2,4-DB	5.30		0.57	2.00	ug/L
88-85-7	DINOSEB	5.30		0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	553		39 - 175	111%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028287.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Nov 2024 00:39
 Operator : AR\AJ
 Sample : PB164494BSD
 Misc :
 ALS Vial : 73 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB164494BSD

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 07 03:17:47 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.260	7.763	1417.3E6	917.3E6	553.346	526.628
Target Compounds							
1) T	Dalapon	2.653	2.711	1623.7E6	1355.2E6	456.195	460.564
2) T	3,5-DICHL...	6.428	6.713	1897.7E6	1250.9E6	506.222	494.247
3) T	4-Nitroph...	7.059	7.289	812.2E6	527.5E6	492.965	460.344
5) T	DICAMBA	7.449	7.964	5766.2E6	4007.7E6	513.533	498.933
6) T	MCPD	7.631	8.065	380.2E6	310.5E6	50.144	51.137
7) T	MCPA	7.781	8.310	519.4E6	416.8E6	49.890	49.986
8) T	DICHLORPROP	8.160	8.681	1479.2E6	987.2E6	524.659	491.315
9) T	2,4-D	8.391	9.012	1663.2E6	1081.1E6	526.963m	484.762
10) T	Pentachlo...	8.691	9.543	23158.4E6	14707.9E6	557.192	504.305
11) T	2,4,5-TP ...	9.273	9.920	9193.6E6	6228.4E6	539.988	500.567
12) T	2,4,5-T	9.566	10.341	9319.7E6	6028.7E6	537.607	491.465
13) T	2,4-DB	10.143	10.909	1485.8E6	746.8E6	525.668	471.227
14) T	DINOSEB	11.360	11.289	7687.7E6	4153.1E6	531.694	476.186
15) T	Picloram	11.165	12.389	15160.3E6	8396.4E6	522.790	465.636
16) T	DCPA	11.653	12.336	13008.6E6	6725.1E6	547.518	480.003

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028287.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 00:39
Operator : AR\AJ
Sample : PB164494BSD
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB164494BSD

Manual Integrations

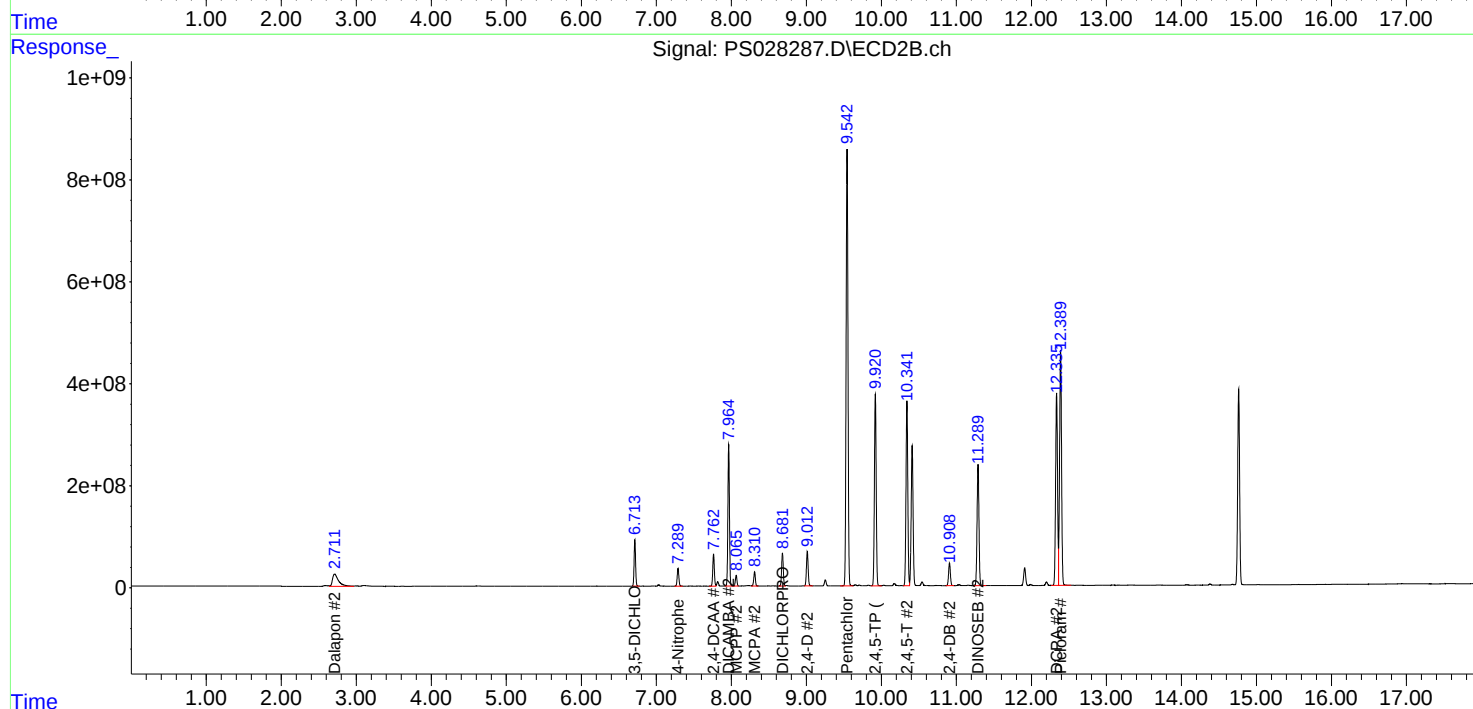
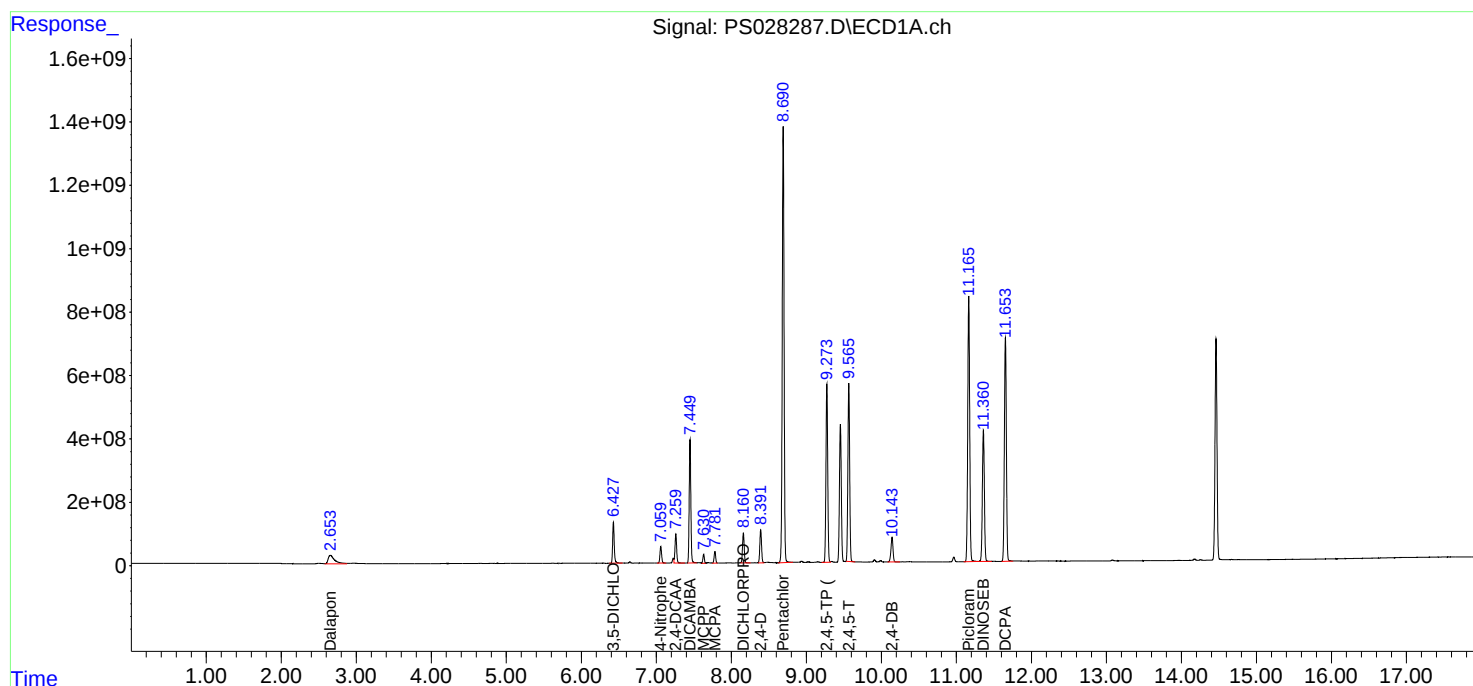
APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

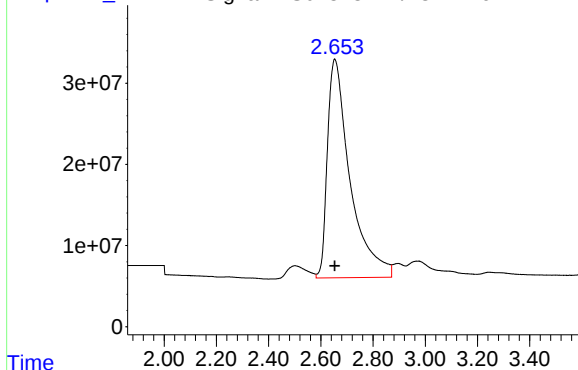
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 03:17:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

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: PS028287.D\ECD1A.ch

#1 Dalapon



R.T.: 2.653 min
Delta R.T.: 0.000 min
Response: 1623683832
Conc: 456.19 ng/ml

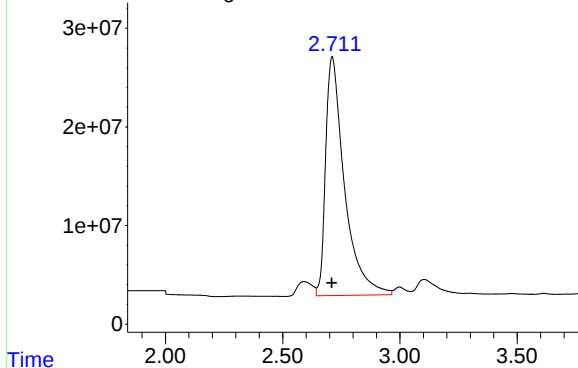
Instrument :
ECD_S
ClientSampleId :
PB164494BSD

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time Response_ Signal: PS028287.D\ECD2B.ch

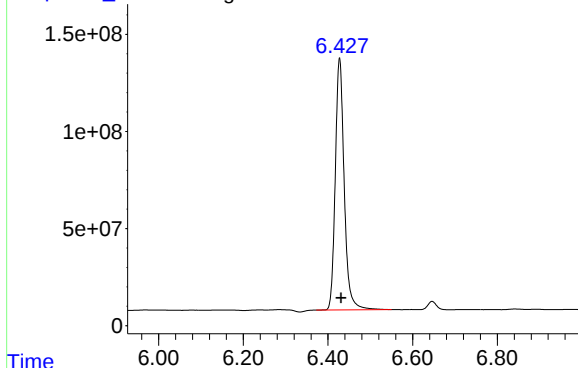
#1 Dalapon



R.T.: 2.711 min
Delta R.T.: 0.001 min
Response: 1355205904
Conc: 460.56 ng/ml

Time Response_ Signal: PS028287.D\ECD1A.ch

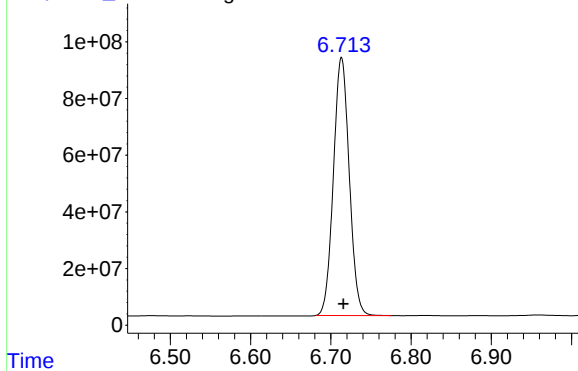
#2 3,5-DICHLOROBENZOIC ACID



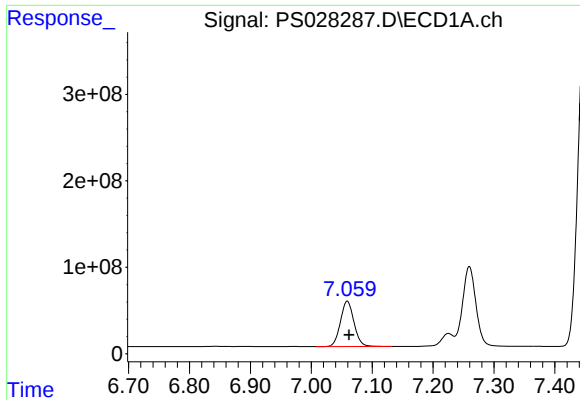
R.T.: 6.428 min
Delta R.T.: -0.003 min
Response: 1897715676
Conc: 506.22 ng/ml

Time Response_ Signal: PS028287.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID



R.T.: 6.713 min
Delta R.T.: -0.002 min
Response: 1250893158
Conc: 494.25 ng/ml



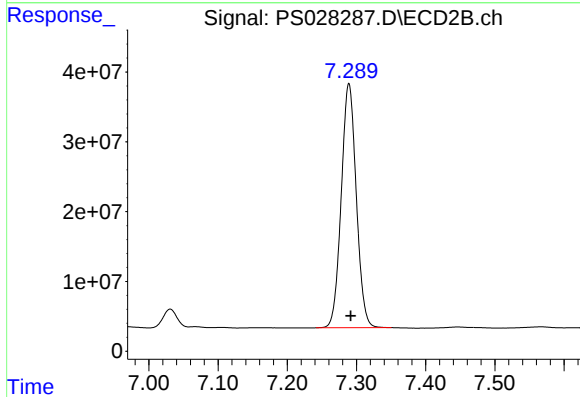
#3 4-Nitrophenol

R.T.: 7.059 min
Delta R.T.: -0.003 min
Response: 812193470
Conc: 492.97 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BSD

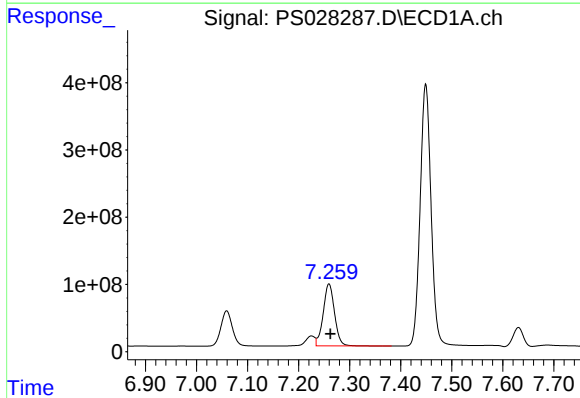
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



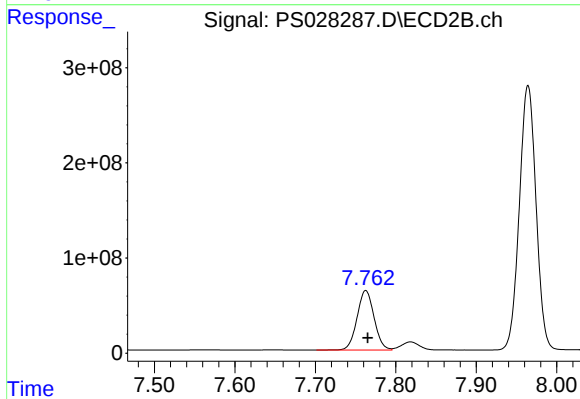
#3 4-Nitrophenol

R.T.: 7.289 min
Delta R.T.: -0.003 min
Response: 527528842
Conc: 460.34 ng/ml



#4 2,4-DCAA

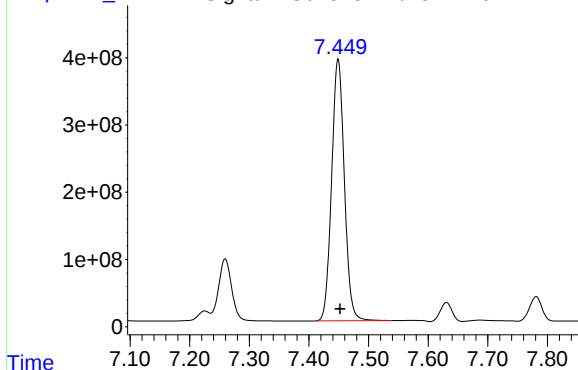
R.T.: 7.260 min
Delta R.T.: -0.003 min
Response: 1417349076
Conc: 553.35 ng/ml



#4 2,4-DCAA

R.T.: 7.763 min
Delta R.T.: -0.003 min
Response: 917269678
Conc: 526.63 ng/ml

Response_ Signal: PS028287.D\ECD1A.ch



#5 DICAMBA

R.T.: 7.449 min
Delta R.T.: -0.003 min
Response: 5766221819
Conc: 513.53 ng/ml

Instrument :

ECD_S

ClientSampleId :

PB164494BSD

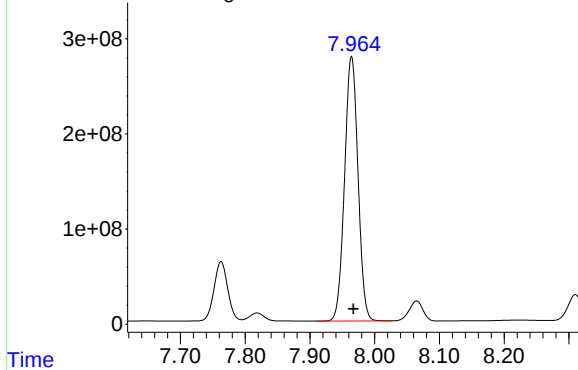
Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

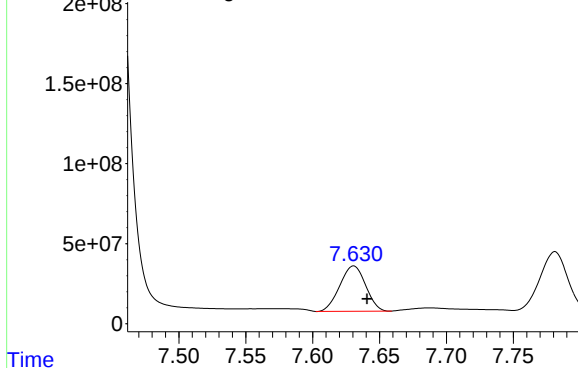
Response_ Signal: PS028287.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.964 min
Delta R.T.: -0.003 min
Response: 4007713416
Conc: 498.93 ng/ml

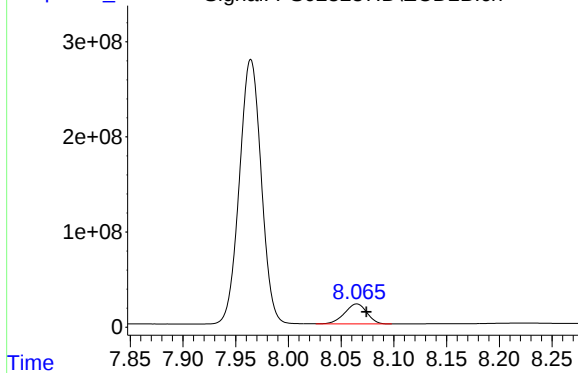
Response_ Signal: PS028287.D\ECD1A.ch



#6 MCP

R.T.: 7.631 min
Delta R.T.: -0.010 min
Response: 380218565
Conc: 50.14 ug/ml

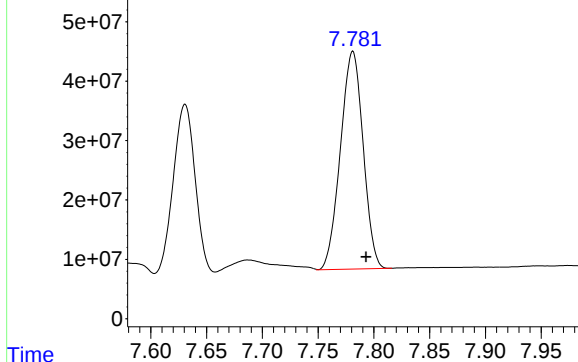
Response_ Signal: PS028287.D\ECD2B.ch



#6 MCP

R.T.: 8.065 min
Delta R.T.: -0.009 min
Response: 310468048
Conc: 51.14 ug/ml

Response_ Signal: PS028287.D\ECD1A.ch



#7 MCPA

R.T.: 7.781 min
Delta R.T.: -0.012 min
Response: 519416080
Conc: 49.89 ug/ml

Instrument :

ECD_S

ClientSampleId :

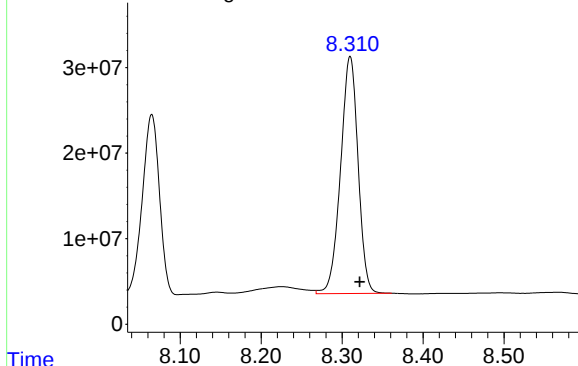
PB164494BSD

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

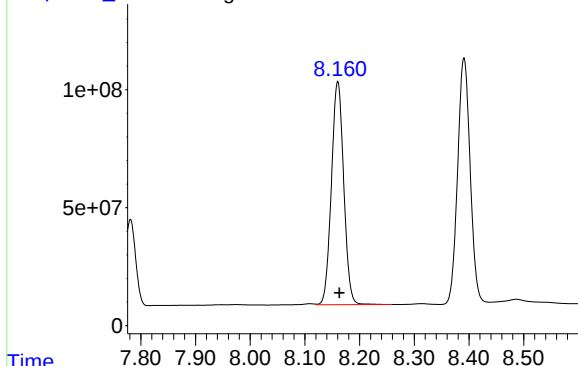
Time Response_ Signal: PS028287.D\ECD2B.ch



#7 MCPA

R.T.: 8.310 min
Delta R.T.: -0.012 min
Response: 416815724
Conc: 49.99 ug/ml

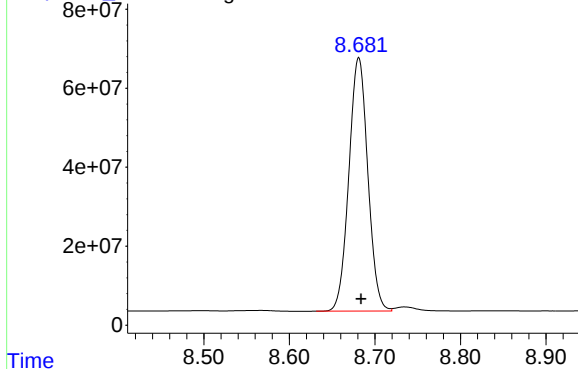
Time Response_ Signal: PS028287.D\ECD1A.ch



#8 DICHLORPROP

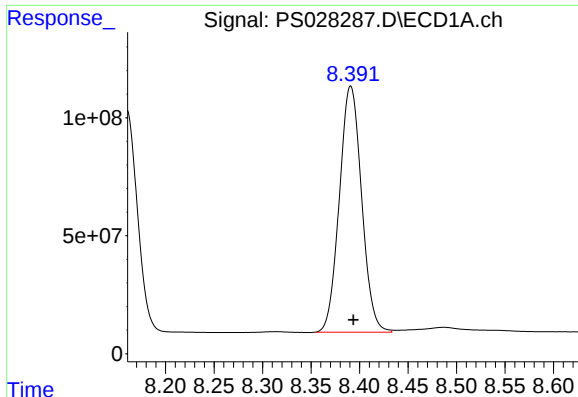
R.T.: 8.160 min
Delta R.T.: -0.003 min
Response: 1479160026
Conc: 524.66 ng/ml

Time Response_ Signal: PS028287.D\ECD2B.ch



#8 DICHLORPROP

R.T.: 8.681 min
Delta R.T.: -0.003 min
Response: 987171873
Conc: 491.32 ng/ml



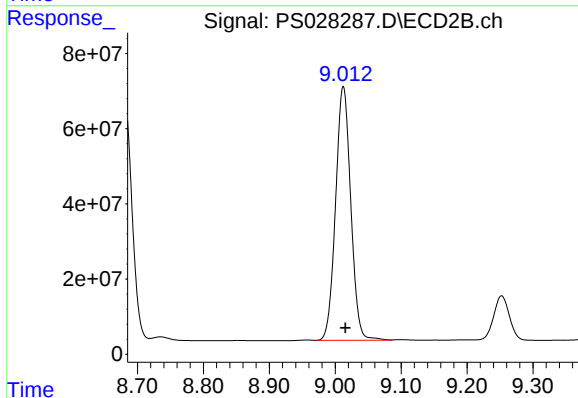
#9 2,4-D

R.T.: 8.391 min
Delta R.T.: -0.003 min
Response: 1663153426
Conc: 526.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BSD

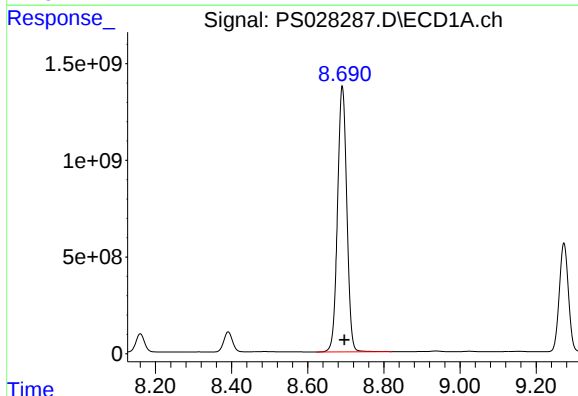
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



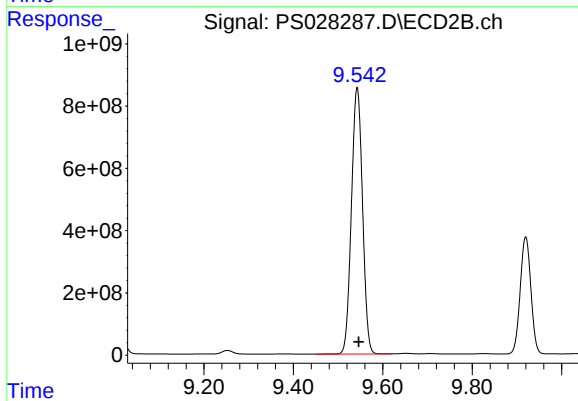
#9 2,4-D

R.T.: 9.012 min
Delta R.T.: -0.003 min
Response: 1081086113
Conc: 484.76 ng/ml



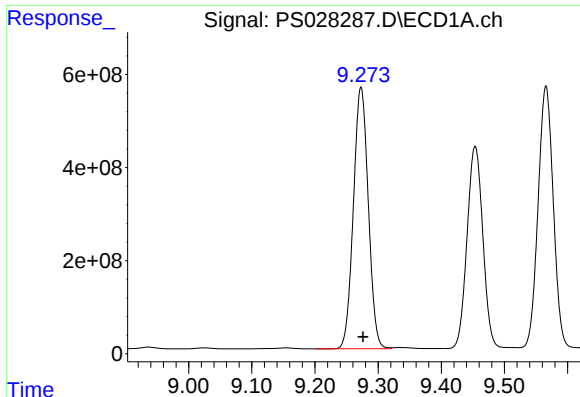
#10 Pentachlorophenol

R.T.: 8.691 min
Delta R.T.: -0.005 min
Response: 23158388961
Conc: 557.19 ng/ml



#10 Pentachlorophenol

R.T.: 9.543 min
Delta R.T.: -0.004 min
Response: 14707883143
Conc: 504.30 ng/ml



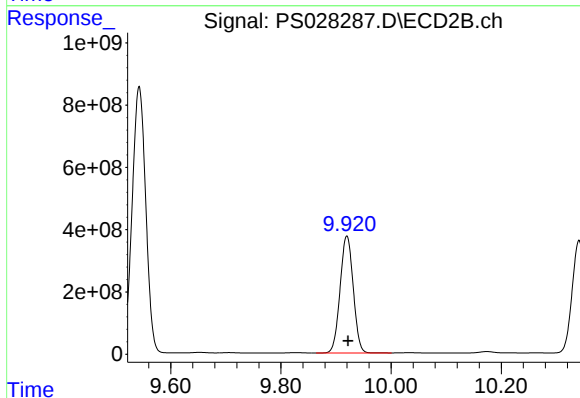
#11 2,4,5-TP (SILVEX)

R.T.: 9.273 min
Delta R.T.: -0.003 min
Response: 9193628685
Conc: 539.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BSD

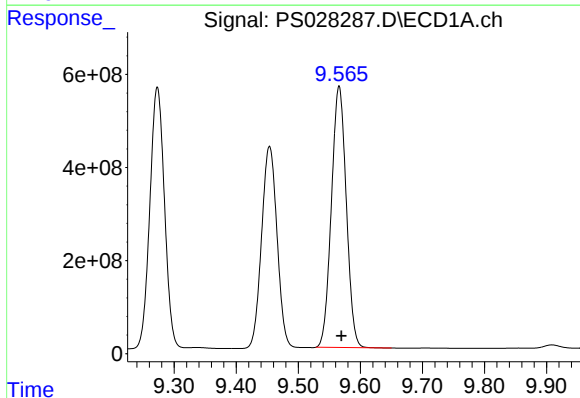
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



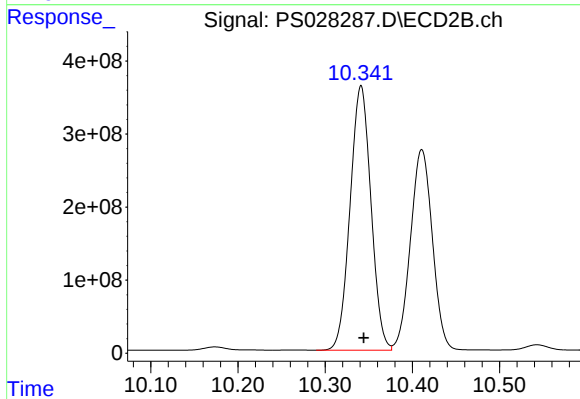
#11 2,4,5-TP (SILVEX)

R.T.: 9.920 min
Delta R.T.: -0.002 min
Response: 6228401910
Conc: 500.57 ng/ml



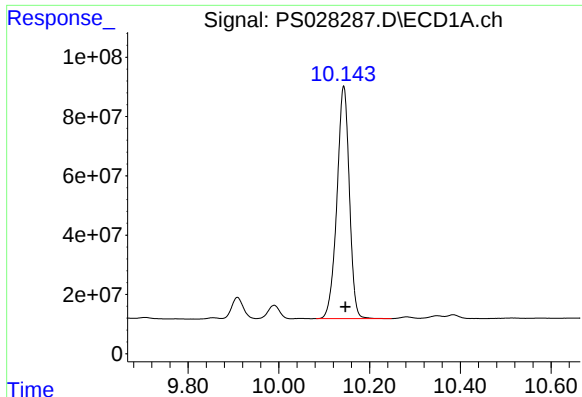
#12 2,4,5-T

R.T.: 9.566 min
Delta R.T.: -0.004 min
Response: 9319691620
Conc: 537.61 ng/ml



#12 2,4,5-T

R.T.: 10.341 min
Delta R.T.: -0.003 min
Response: 6028699450
Conc: 491.47 ng/ml



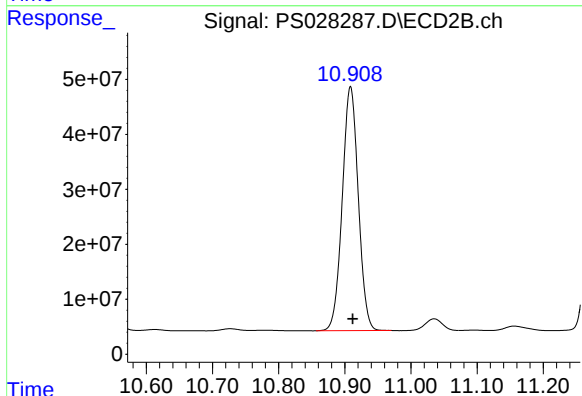
#13 2,4-DB

R.T.: 10.143 min
Delta R.T.: -0.004 min
Response: 1485818398
Conc: 525.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BSD

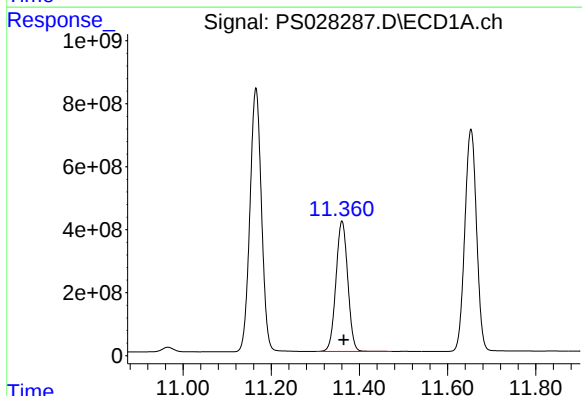
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



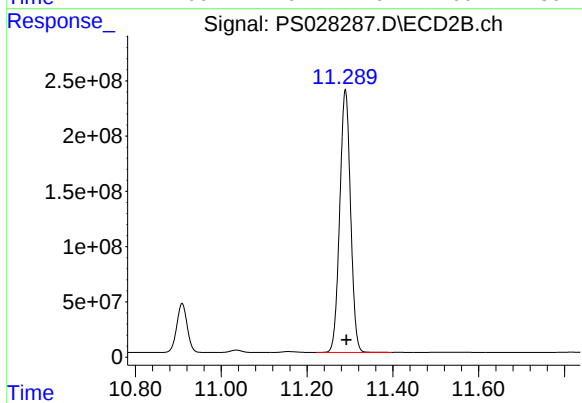
#13 2,4-DB

R.T.: 10.909 min
Delta R.T.: -0.003 min
Response: 746847855
Conc: 471.23 ng/ml



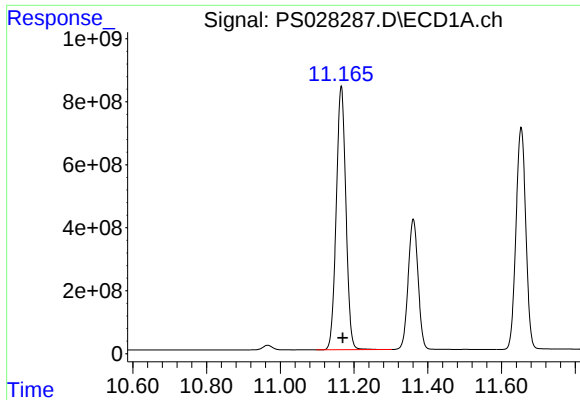
#14 DINOSEB

R.T.: 11.360 min
Delta R.T.: -0.004 min
Response: 7687749554
Conc: 531.69 ng/ml



#14 DINOSEB

R.T.: 11.289 min
Delta R.T.: -0.002 min
Response: 4153131108
Conc: 476.19 ng/ml



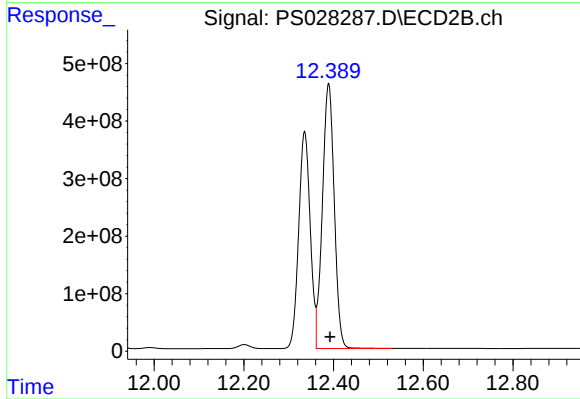
#15 Picloram

R.T.: 11.165 min
Delta R.T.: -0.004 min
Response: 15160327618
Conc: 522.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164494BSD

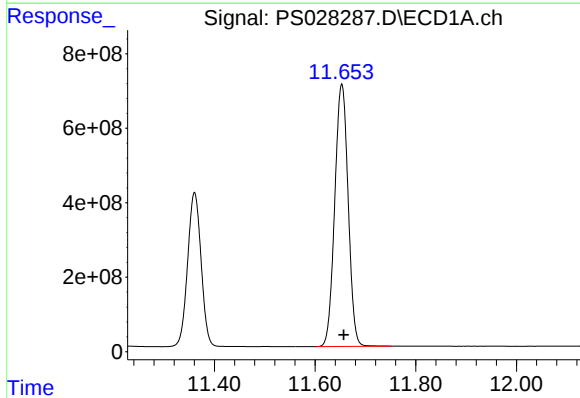
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



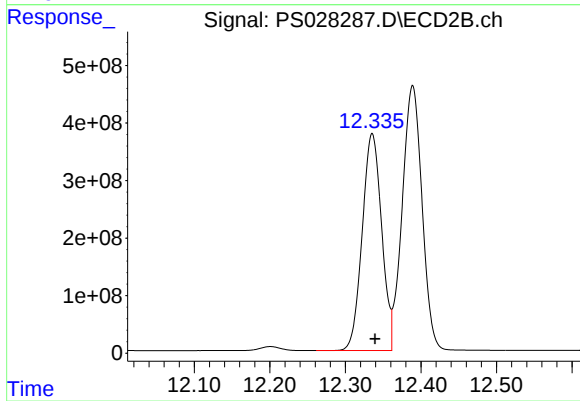
#15 Picloram

R.T.: 12.389 min
Delta R.T.: -0.003 min
Response: 8396415659
Conc: 465.64 ng/ml



#16 DCPA

R.T.: 11.653 min
Delta R.T.: -0.004 min
Response: 13008625738
Conc: 547.52 ng/ml



#16 DCPA

R.T.: 12.336 min
Delta R.T.: -0.004 min
Response: 6725074385
Conc: 480.00 ng/ml

Manual Integration Report

Sequence:	PS103124	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS028102.D	Pentachlorophenol	Abdul	11/1/2024 5:32:27 PM	Ankita	11/5/2024 8:47:10	Peak Integrated by Software
HSTDCCC750	PS028146.D	2,4-DCAA #2	Abdul	11/1/2024 5:30:53 PM	Ankita	11/5/2024 8:48:33	Peak Integrated by Software
HSTDCCC750	PS028146.D	DICHLORPROP	Abdul	11/1/2024 5:30:53 PM	Ankita	11/5/2024 8:48:33	Peak Integrated by Software
PB164494BL	PS028153.D	2,4-DCAA #2	Abdul	11/1/2024 5:31:06 PM	Ankita	11/5/2024 8:48:40	Peak Integrated by Software
P4593-02	PS028166.D	2,4-DCAA #2	Abdul	11/4/2024 7:43:28 AM	Ankita	11/5/2024 8:48:57	Peak Integrated by Software
HSTDCCC750	PS028168.D	DCPA #2	Abdul	11/4/2024 7:43:55 AM	Ankita	11/5/2024 8:48:58	Peak Integrated by Software

Manual Integration Report

Sequence:	PS110624	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC500	PS028254.D	2,4-DCAA	Abdul	11/8/2024 10:55:51 AM	Ankita	11/8/2024 11:03:48	Peak Integrated by Software
HSTDICC1000	PS028256.D	2,4-DCAA	Abdul	11/8/2024 10:55:55 AM	Ankita	11/8/2024 11:03:51	Peak Integrated by Software
HSTDICV750	PS028258.D	2,4-DCAA	Abdul	11/8/2024 10:55:59 AM	Ankita	11/8/2024 11:03:53	Peak Integrated by Software
I.BLK	PS028271.D	2,4-DCAA	Abdul	11/8/2024 10:59:56 AM	Ankita	11/8/2024 11:04:10	Peak Integrated by Software
HSTDCCC750	PS028272.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	11/8/2024 11:00:02 AM	Ankita	11/8/2024 11:04:13	Peak Integrated by Software
I.BLK	PS028283.D	2,4-DCAA	Abdul	11/8/2024 10:57:34 AM	Ankita	11/8/2024 11:04:56	Peak Integrated by Software
HSTDCCC750	PS028284.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	11/8/2024 11:01:14 AM	Ankita	11/8/2024 11:04:58	Peak Integrated by Software
PB164494BS	PS028286.D	MCPP	Abdul	11/8/2024 11:03:14 AM	Ankita	11/8/2024 11:04:59	Peak Integrated by Software
PB164494BSD	PS028287.D	2,4-D	Abdul	11/8/2024 11:02:29 AM	Ankita	11/8/2024 11:05:01	Peak Integrated by Software
HSTDCCC750	PS028297.D	2,4-D	Abdul	11/8/2024 10:43:24 AM	Ankita	11/8/2024 10:46:46	Peak Integrated by Software
HSTDCCC750	PS028297.D	2,4-DCAA	Abdul	11/8/2024 10:43:24 AM	Ankita	11/8/2024 10:46:46	Peak Integrated by Software
HSTDCCC750	PS028309.D	2,4,5-T	Abdul	11/8/2024 10:43:50 AM	Ankita	11/8/2024 10:46:57	Peak Integrated by Software
HSTDCCC750	PS028320.D	2,4,5-T	Abdul	11/8/2024 10:44:46 AM	Ankita	11/8/2024 10:46:10	Peak Integrated by Software

Manual Integration Report

Sequence:

PS110624

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028320.D	2,4-D	Abdul	11/8/2024 10:44:46 AM	Ankita	11/8/2024 10:46:10	Peak Integrated by Software
HSTDCCC750	PS028332.D	2,4,5-T	Abdul	11/8/2024 10:59:13 AM	Ankita	11/8/2024 11:05:48	Peak Integrated by Software
HSTDCCC750	PS028332.D	2,4-D	Abdul	11/8/2024 10:59:13 AM	Ankita	11/8/2024 11:05:48	Peak Integrated by Software
HSTDCCC750	PS028332.D	2,4-DCAA	Abdul	11/8/2024 10:59:13 AM	Ankita	11/8/2024 11:05:48	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS103124

Review By	Abdul	Review On	11/1/2024 5:34:47 PM
Supervise By	Ankita	Supervise On	11/5/2024 8:49:26 AM
SubDirectory	PS103124	HP Acquire Method	HP Processing Method ps103124 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23469		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028100.D	31 Oct 2024 10:03	AR\AJ	Ok
2	I.BLK	PS028101.D	31 Oct 2024 10:27	AR\AJ	Ok
3	HSTDICC200	PS028102.D	31 Oct 2024 10:51	AR\AJ	Ok,M
4	HSTDICC500	PS028103.D	31 Oct 2024 11:15	AR\AJ	Ok
5	HSTDICC750	PS028104.D	31 Oct 2024 11:39	AR\AJ	Ok
6	HSTDICC1000	PS028105.D	31 Oct 2024 12:03	AR\AJ	Ok
7	HSTDICC1500	PS028106.D	31 Oct 2024 12:27	AR\AJ	Ok
8	HSTDICV750	PS028107.D	31 Oct 2024 12:51	AR\AJ	Ok
9	I.BLK	PS028108.D	31 Oct 2024 13:16	AR\AJ	Ok
10	HSTDCCC750	PS028109.D	31 Oct 2024 13:40	AR\AJ	Ok
11	P4597-01	PS028110.D	31 Oct 2024 14:04	AR\AJ	Ok,M
12	P4597-04	PS028111.D	31 Oct 2024 14:28	AR\AJ	Ok,M
13	P4597-07	PS028112.D	31 Oct 2024 14:52	AR\AJ	Ok,M
14	P4597-10	PS028113.D	31 Oct 2024 15:17	AR\AJ	Ok,M
15	PB164412BL	PS028114.D	31 Oct 2024 15:41	AR\AJ	Ok,M
16	PB164412BS	PS028115.D	31 Oct 2024 16:05	AR\AJ	Ok
17	P4567-01	PS028116.D	31 Oct 2024 16:29	AR\AJ	Ok,M
18	P4567-05	PS028117.D	31 Oct 2024 16:53	AR\AJ	Ok,M
19	P4567-09	PS028118.D	31 Oct 2024 17:17	AR\AJ	Ok,M
20	P4574-01	PS028119.D	31 Oct 2024 17:41	AR\AJ	Ok
21	P4574-04	PS028120.D	31 Oct 2024 18:05	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS103124

Review By	Abdul	Review On	11/1/2024 5:34:47 PM
Supervise By	Ankita	Supervise On	11/5/2024 8:49:26 AM
SubDirectory	PS103124	HP Acquire Method	HP Processing Method ps103124 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	I.BLK	PS028121.D	31 Oct 2024 18:29	AR\AJ	Ok
23	HSTDCCC750	PS028122.D	31 Oct 2024 19:17	AR\AJ	Ok
24	P4561-01	PS028123.D	31 Oct 2024 19:41	AR\AJ	Ok,M
25	P4561-01MS	PS028124.D	31 Oct 2024 20:05	AR\AJ	Ok,M
26	P4561-01MSD	PS028125.D	31 Oct 2024 20:29	AR\AJ	Ok,M
27	P4561-05	PS028126.D	31 Oct 2024 20:53	AR\AJ	Ok,M
28	PB164526BL	PS028127.D	31 Oct 2024 21:17	AR\AJ	Ok,M
29	PB164526BS	PS028128.D	31 Oct 2024 21:42	AR\AJ	Ok
30	P4611-01	PS028129.D	31 Oct 2024 22:06	AR\AJ	Ok,M
31	P4611-04	PS028130.D	31 Oct 2024 22:30	AR\AJ	Ok,M
32	P4611-07	PS028131.D	31 Oct 2024 22:54	AR\AJ	Ok,M
33	P4611-10	PS028132.D	31 Oct 2024 23:18	AR\AJ	Ok,M
34	I.BLK	PS028133.D	31 Oct 2024 23:42	AR\AJ	Ok
35	HSTDCCC750	PS028134.D	01 Nov 2024 00:30	AR\AJ	Ok
36	P4611-13	PS028135.D	01 Nov 2024 00:54	AR\AJ	Ok,M
37	P4611-16	PS028136.D	01 Nov 2024 01:18	AR\AJ	Ok,M
38	P4612-03	PS028137.D	01 Nov 2024 01:42	AR\AJ	Ok
39	P4613-01	PS028138.D	01 Nov 2024 02:06	AR\AJ	ReRun
40	P4594-01	PS028139.D	01 Nov 2024 02:30	AR\AJ	Ok,M
41	P4594-05	PS028140.D	01 Nov 2024 02:54	AR\AJ	Ok,M
42	P4594-09	PS028141.D	01 Nov 2024 03:18	AR\AJ	Ok,M
43	P4594-13	PS028142.D	01 Nov 2024 03:42	AR\AJ	Ok
44	P4594-17	PS028143.D	01 Nov 2024 04:06	AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS103124

Review By	Abdul	Review On	11/1/2024 5:34:47 PM
Supervise By	Ankita	Supervise On	11/5/2024 8:49:26 AM
SubDirectory	PS103124	HP Acquire Method	HP Processing Method ps103124 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

45	P4598-01	PS028144.D	01 Nov 2024 04:30	AR\AJ	Ok,M
46	I.BLK	PS028145.D	01 Nov 2024 04:54	AR\AJ	Ok
47	HSTDCCC750	PS028146.D	01 Nov 2024 05:18	AR\AJ	Ok,M
48	P4598-05	PS028147.D	01 Nov 2024 06:06	AR\AJ	Ok,M
49	P4598-09	PS028148.D	01 Nov 2024 06:30	AR\AJ	Ok,M
50	P4598-09MS	PS028149.D	01 Nov 2024 06:54	AR\AJ	Ok,M
51	P4598-09MSD	PS028150.D	01 Nov 2024 07:18	AR\AJ	Ok,M
52	P4616-01	PS028151.D	01 Nov 2024 07:42	AR\AJ	Ok,M
53	P4616-05	PS028152.D	01 Nov 2024 08:06	AR\AJ	Ok,M
54	PB164494BL	PS028153.D	01 Nov 2024 08:31	AR\AJ	Ok,M
55	PB164494BS	PS028154.D	01 Nov 2024 08:55	AR\AJ	Not Ok
56	PB164494BSD	PS028155.D	01 Nov 2024 09:19	AR\AJ	Not Ok
57	P4593-01	PS028156.D	01 Nov 2024 09:43	AR\AJ	Ok
58	I.BLK	PS028157.D	01 Nov 2024 10:07	AR\AJ	Ok
59	HSTDCCC750	PS028158.D	01 Nov 2024 11:19	AR\AJ	Ok
60	P4613-01RE	PS028159.D	01 Nov 2024 11:43	AR\AJ	Confirms
61	P4617-04	PS028160.D	01 Nov 2024 12:07	AR\AJ	Ok,M
62	P4017-04MS	PS028161.D	01 Nov 2024 12:31	AR\AJ	Ok,M
63	P4017-04MSD	PS028162.D	01 Nov 2024 12:55	AR\AJ	Ok,M
64	PB164578BL	PS028163.D	01 Nov 2024 13:19	AR\AJ	Ok,M
65	PB164578BS	PS028164.D	01 Nov 2024 13:43	AR\AJ	Not Ok
66	PB164522TB	PS028165.D	01 Nov 2024 14:07	AR\AJ	Ok,M
67	P4593-02	PS028166.D	01 Nov 2024 14:31	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS103124

Review By	Abdul	Review On	11/1/2024 5:34:47 PM
Supervise By	Ankita	Supervise On	11/5/2024 8:49:26 AM
SubDirectory	PS103124	HP Acquire Method	HP Processing Method ps103124 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23469		

68	I.BLK	PS028167.D	01 Nov 2024 14:55	AR\AJ	Ok
69	HSTDCCC750	PS028168.D	01 Nov 2024 15:20	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028251.D	06 Nov 2024 09:00	AR\AJ	Ok
2	I.BLK	PS028252.D	06 Nov 2024 09:24	AR\AJ	Ok
3	HSTDICC200	PS028253.D	06 Nov 2024 09:48	AR\AJ	Ok
4	HSTDICC500	PS028254.D	06 Nov 2024 10:12	AR\AJ	Ok,M
5	HSTDICC750	PS028255.D	06 Nov 2024 10:36	AR\AJ	Ok
6	HSTDICC1000	PS028256.D	06 Nov 2024 11:00	AR\AJ	Ok,M
7	HSTDICC1500	PS028257.D	06 Nov 2024 11:24	AR\AJ	Ok
8	HSTDICV750	PS028258.D	06 Nov 2024 11:48	AR\AJ	Ok,M
9	I.BLK	PS028259.D	06 Nov 2024 12:14	AR\AJ	Ok
10	HSTDCCC750	PS028260.D	06 Nov 2024 12:38	AR\AJ	Ok
11	P4643-09RE	PS028261.D	06 Nov 2024 13:02	AR\AJ	Confirms
12	PB164519BL	PS028262.D	06 Nov 2024 13:26	AR\AJ	Ok,M
13	PB164519BS	PS028263.D	06 Nov 2024 13:50	AR\AJ	Ok
14	PB164393TB	PS028264.D	06 Nov 2024 14:14	AR\AJ	Not Ok
15	P4578-06	PS028265.D	06 Nov 2024 15:23	AR\AJ	Ok,M
16	P4682-01	PS028266.D	06 Nov 2024 15:50	AR\AJ	Ok,M
17	P4667-01	PS028267.D	06 Nov 2024 16:14	AR\AJ	Ok,M
18	P4667-05	PS028268.D	06 Nov 2024 16:39	AR\AJ	Ok,M
19	P4667-09	PS028269.D	06 Nov 2024 17:03	AR\AJ	Ok,M
20	P4667-13	PS028270.D	06 Nov 2024 17:27	AR\AJ	Ok,M
21	I.BLK	PS028271.D	06 Nov 2024 17:51	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	HSTDCCC750	PS028272.D	06 Nov 2024 18:15	AR\AJ	Ok,M
23	P4679-01	PS028273.D	06 Nov 2024 18:39	AR\AJ	Ok,M
24	P4680-01	PS028274.D	06 Nov 2024 19:03	AR\AJ	Ok,M
25	P4680-05	PS028275.D	06 Nov 2024 19:27	AR\AJ	Ok,M
26	P4695-01	PS028276.D	06 Nov 2024 19:51	AR\AJ	Ok,M
27	P4693-01	PS028277.D	06 Nov 2024 20:15	AR\AJ	Ok,M
28	P4693-05	PS028278.D	06 Nov 2024 20:39	AR\AJ	Ok,M
29	P4711-01	PS028279.D	06 Nov 2024 21:03	AR\AJ	Ok,M
30	P4711-06	PS028280.D	06 Nov 2024 21:27	AR\AJ	Ok,M
31	P4719-01	PS028281.D	06 Nov 2024 21:51	AR\AJ	Ok,M
32	PB164703BL	PS028282.D	06 Nov 2024 22:15	AR\AJ	Ok,M
33	I.BLK	PS028283.D	06 Nov 2024 22:39	AR\AJ	Ok,M
34	HSTDCCC750	PS028284.D	06 Nov 2024 23:03	AR\AJ	Ok,M
35	PB164703BS	PS028285.D	06 Nov 2024 23:51	AR\AJ	Ok
36	PB164494BS	PS028286.D	07 Nov 2024 00:15	AR\AJ	Ok,M
37	PB164494BSD	PS028287.D	07 Nov 2024 00:39	AR\AJ	Ok,M
38	PB164578BS	PS028288.D	07 Nov 2024 01:04	AR\AJ	Ok,M
39	P4694-01	PS028289.D	07 Nov 2024 01:28	AR\AJ	Ok,M
40	P4694-05	PS028290.D	07 Nov 2024 01:52	AR\AJ	Ok,M
41	P4578-06MS	PS028291.D	07 Nov 2024 02:16	AR\AJ	Ok,M
42	P4578-06MSD	PS028292.D	07 Nov 2024 02:40	AR\AJ	Ok,M
43	P4578-08	PS028293.D	07 Nov 2024 03:04	AR\AJ	Ok,M
44	PB164559BL	PS028294.D	07 Nov 2024 03:28	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

45	PB164559BS	PS028295.D	07 Nov 2024 03:52	AR\AJ	Ok,M
46	I.BLK	PS028296.D	07 Nov 2024 04:16	AR\AJ	Ok
47	HSTDCCC750	PS028297.D	07 Nov 2024 04:40	AR\AJ	Ok,M
48	P4601-19	PS028298.D	07 Nov 2024 05:28	AR\AJ	Ok,M
49	P4601-20	PS028299.D	07 Nov 2024 05:52	AR\AJ	Ok,M
50	P4601-21	PS028300.D	07 Nov 2024 06:16	AR\AJ	Ok,M
51	P4601-22	PS028301.D	07 Nov 2024 06:40	AR\AJ	Ok,M
52	P4601-23	PS028302.D	07 Nov 2024 07:04	AR\AJ	Ok,M
53	P4601-24	PS028303.D	07 Nov 2024 07:28	AR\AJ	Ok,M
54	P4601-25	PS028304.D	07 Nov 2024 07:52	AR\AJ	Ok,M
55	P4601-26	PS028305.D	07 Nov 2024 08:16	AR\AJ	Ok,M
56	P4601-27	PS028306.D	07 Nov 2024 08:40	AR\AJ	Ok,M
57	P4601-28	PS028307.D	07 Nov 2024 09:04	AR\AJ	Ok,M
58	I.BLK	PS028308.D	07 Nov 2024 09:28	AR\AJ	Ok
59	HSTDCCC750	PS028309.D	07 Nov 2024 09:52	AR\AJ	Ok,M
60	P4660-03	PS028310.D	07 Nov 2024 10:16	AR\AJ	Ok
61	P4660-07	PS028311.D	07 Nov 2024 10:40	AR\AJ	Ok,M
62	P4660-11	PS028312.D	07 Nov 2024 11:04	AR\AJ	Ok,M
63	P4660-03MS	PS028313.D	07 Nov 2024 11:28	AR\AJ	Ok,M
64	P4660-03MSD	PS028314.D	07 Nov 2024 11:52	AR\AJ	Ok,M
65	PB164752BL	PS028315.D	07 Nov 2024 12:16	AR\AJ	Ok,M
66	PB164752BS	PS028316.D	07 Nov 2024 12:40	AR\AJ	Ok
67	PB164560TB	PS028317.D	07 Nov 2024 13:04	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

68	P4368-07	PS028318.D	07 Nov 2024 13:28	AR\AJ	Ok,M
69	I.BLK	PS028319.D	07 Nov 2024 13:52	AR\AJ	Ok
70	HSTDCCC750	PS028320.D	07 Nov 2024 14:16	AR\AJ	Ok,M
71	P4601-29	PS028321.D	07 Nov 2024 14:40	AR\AJ	Not Ok
72	P4601-30	PS028322.D	07 Nov 2024 15:05	AR\AJ	Not Ok
73	P4601-31	PS028323.D	07 Nov 2024 15:29	AR\AJ	Not Ok
74	P4601-32	PS028324.D	07 Nov 2024 15:53	AR\AJ	Not Ok
75	P4601-33	PS028325.D	07 Nov 2024 16:17	AR\AJ	Not Ok
76	P4601-34	PS028326.D	07 Nov 2024 16:41	AR\AJ	Not Ok
77	P4601-35	PS028327.D	07 Nov 2024 17:05	AR\AJ	Not Ok
78	P4601-36	PS028328.D	07 Nov 2024 17:29	AR\AJ	Not Ok
79	P4601-37MS	PS028329.D	07 Nov 2024 17:53	AR\AJ	Not Ok
80	P4601-37MSD	PS028330.D	07 Nov 2024 18:17	AR\AJ	Not Ok
81	I.BLK	PS028331.D	07 Nov 2024 18:41	AR\AJ	Not Ok
82	HSTDCCC750	PS028332.D	07 Nov 2024 19:05	AR\AJ	Not Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS103124

Review By	Abdul	Review On	11/1/2024 5:34:47 PM
Supervise By	Ankita	Supervise On	11/5/2024 8:49:26 AM
SubDirectory	PS103124	HP Acquire Method	HP Processing Method ps103124 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028100.D	31 Oct 2024 10:03		AR\AJ	Ok
2	I.BLK	I.BLK	PS028101.D	31 Oct 2024 10:27		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028102.D	31 Oct 2024 10:51		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS028103.D	31 Oct 2024 11:15		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS028104.D	31 Oct 2024 11:39		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028105.D	31 Oct 2024 12:03		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS028106.D	31 Oct 2024 12:27		AR\AJ	Ok
8	HSTDICV750	ICVPS103124	PS028107.D	31 Oct 2024 12:51		AR\AJ	Ok
9	I.BLK	I.BLK	PS028108.D	31 Oct 2024 13:16		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028109.D	31 Oct 2024 13:40		AR\AJ	Ok
11	P4597-01	RED-1-1	PS028110.D	31 Oct 2024 14:04		AR\AJ	Ok,M
12	P4597-04	RED-1-2	PS028111.D	31 Oct 2024 14:28		AR\AJ	Ok,M
13	P4597-07	BLUE-2-1	PS028112.D	31 Oct 2024 14:52		AR\AJ	Ok,M
14	P4597-10	BLUE-2-2	PS028113.D	31 Oct 2024 15:17		AR\AJ	Ok,M
15	PB164412BL	PB164412BL	PS028114.D	31 Oct 2024 15:41		AR\AJ	Ok,M
16	PB164412BS	PB164412BS	PS028115.D	31 Oct 2024 16:05		AR\AJ	Ok
17	P4567-01	WC-1	PS028116.D	31 Oct 2024 16:29		AR\AJ	Ok,M
18	P4567-05	WC-2	PS028117.D	31 Oct 2024 16:53		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS103124

Review By	Abdul	Review On	11/1/2024 5:34:47 PM
Supervise By	Ankita	Supervise On	11/5/2024 8:49:26 AM
SubDirectory	PS103124	HP Acquire Method	HP Processing Method ps103124 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4567-09	WC-3	PS028118.D	31 Oct 2024 17:17		AR\AJ	Ok,M
20	P4574-01	GRAVEL-1	PS028119.D	31 Oct 2024 17:41		AR\AJ	Ok
21	P4574-04	GRAVEL-2	PS028120.D	31 Oct 2024 18:05		AR\AJ	Ok,M
22	I.BLK	I.BLK	PS028121.D	31 Oct 2024 18:29		AR\AJ	Ok
23	HSTDCCC750	HSTDCCC750	PS028122.D	31 Oct 2024 19:17		AR\AJ	Ok
24	P4561-01	BP-F-19	PS028123.D	31 Oct 2024 19:41		AR\AJ	Ok,M
25	P4561-01MS	BP-F-19MS	PS028124.D	31 Oct 2024 20:05	Some compound recovery fail	AR\AJ	Ok,M
26	P4561-01MSD	BP-F-19MSD	PS028125.D	31 Oct 2024 20:29	Some compound recovery fail	AR\AJ	Ok,M
27	P4561-05	BP-F-18	PS028126.D	31 Oct 2024 20:53		AR\AJ	Ok,M
28	PB164526BL	PB164526BL	PS028127.D	31 Oct 2024 21:17		AR\AJ	Ok,M
29	PB164526BS	PB164526BS	PS028128.D	31 Oct 2024 21:42		AR\AJ	Ok
30	P4611-01	TP-1	PS028129.D	31 Oct 2024 22:06		AR\AJ	Ok,M
31	P4611-04	TP-2	PS028130.D	31 Oct 2024 22:30		AR\AJ	Ok,M
32	P4611-07	TP-3	PS028131.D	31 Oct 2024 22:54		AR\AJ	Ok,M
33	P4611-10	TP-4	PS028132.D	31 Oct 2024 23:18		AR\AJ	Ok,M
34	I.BLK	I.BLK	PS028133.D	31 Oct 2024 23:42		AR\AJ	Ok
35	HSTDCCC750	HSTDCCC750	PS028134.D	01 Nov 2024 00:30		AR\AJ	Ok
36	P4611-13	TP-5	PS028135.D	01 Nov 2024 00:54		AR\AJ	Ok,M
37	P4611-16	TP-6	PS028136.D	01 Nov 2024 01:18		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS103124

Review By	Abdul	Review On	11/1/2024 5:34:47 PM
Supervise By	Ankita	Supervise On	11/5/2024 8:49:26 AM
SubDirectory	PS103124	HP Acquire Method	HP Processing Method ps103124 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

38	P4612-03	MOO-24-00335	PS028137.D	01 Nov 2024 01:42		AR\AJ	Ok
39	P4613-01	ARS20-0001	PS028138.D	01 Nov 2024 02:06	Surrogate Fail in 2,4-DCAA-II	AR\AJ	ReRun
40	P4594-01	TP-4	PS028139.D	01 Nov 2024 02:30		AR\AJ	Ok,M
41	P4594-05	BP-F17	PS028140.D	01 Nov 2024 02:54		AR\AJ	Ok,M
42	P4594-09	BP-F16	PS028141.D	01 Nov 2024 03:18		AR\AJ	Ok,M
43	P4594-13	TP-5	PS028142.D	01 Nov 2024 03:42		AR\AJ	Ok
44	P4594-17	BP-F15	PS028143.D	01 Nov 2024 04:06		AR\AJ	Ok
45	P4598-01	BP-F12	PS028144.D	01 Nov 2024 04:30		AR\AJ	Ok,M
46	I.BLK	I.BLK	PS028145.D	01 Nov 2024 04:54		AR\AJ	Ok
47	HSTDCCC750	HSTDCCC750	PS028146.D	01 Nov 2024 05:18		AR\AJ	Ok,M
48	P4598-05	BP-F11	PS028147.D	01 Nov 2024 06:06		AR\AJ	Ok,M
49	P4598-09	TP-8	PS028148.D	01 Nov 2024 06:30		AR\AJ	Ok,M
50	P4598-09MS	TP-8MS	PS028149.D	01 Nov 2024 06:54	Some compound recovery fail	AR\AJ	Ok,M
51	P4598-09MSD	TP-8MSD	PS028150.D	01 Nov 2024 07:18	Some compound recovery fail	AR\AJ	Ok,M
52	P4616-01	BP-F10	PS028151.D	01 Nov 2024 07:42		AR\AJ	Ok,M
53	P4616-05	BP-F9-MOVED	PS028152.D	01 Nov 2024 08:06		AR\AJ	Ok,M
54	PB164494BL	PB164494BL	PS028153.D	01 Nov 2024 08:31		AR\AJ	Ok,M
55	PB164494BS	PB164494BS	PS028154.D	01 Nov 2024 08:55	Some compound recovery fail	AR\AJ	Not Ok
56	PB164494BSD	PB164494BSD	PS028155.D	01 Nov 2024 09:19	Some compound recovery fail, RPD fail	AR\AJ	Not Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS103124

Review By	Abdul	Review On	11/1/2024 5:34:47 PM
Supervise By	Ankita	Supervise On	11/5/2024 8:49:26 AM
SubDirectory	PS103124	HP Acquire Method	HP Processing Method ps103124 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23469		

57	P4593-01	C0PI1	PS028156.D	01 Nov 2024 09:43		AR\AJ	Ok
58	I.BLK	I.BLK	PS028157.D	01 Nov 2024 10:07		AR\AJ	Ok
59	HSTDCCC750	HSTDCCC750	PS028158.D	01 Nov 2024 11:19	DCPA failing high	AR\AJ	Ok
60	P4613-01RE	ARS20-0001RE	PS028159.D	01 Nov 2024 11:43	Surrogate Fail in 2,4-DCAA-II	AR\AJ	Confirms
61	P4617-04	CONCRETE-PILE	PS028160.D	01 Nov 2024 12:07		AR\AJ	Ok,M
62	P4017-04MS	DDC43MS	PS028161.D	01 Nov 2024 12:31	DALAPON recovery high	AR\AJ	Ok,M
63	P4017-04MSD	DDC43MSD	PS028162.D	01 Nov 2024 12:55		AR\AJ	Ok,M
64	PB164578BL	PB164578BL	PS028163.D	01 Nov 2024 13:19		AR\AJ	Ok,M
65	PB164578BS	PB164578BS	PS028164.D	01 Nov 2024 13:43	DICHLORPROP, Pentachlorophenol recovery high	AR\AJ	Not Ok
66	PB164522TB	PB164522TB	PS028165.D	01 Nov 2024 14:07		AR\AJ	Ok,M
67	P4593-02	C0PI5	PS028166.D	01 Nov 2024 14:31		AR\AJ	Ok,M
68	I.BLK	I.BLK	PS028167.D	01 Nov 2024 14:55		AR\AJ	Ok
69	HSTDCCC750	HSTDCCC750	PS028168.D	01 Nov 2024 15:20		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028251.D	06 Nov 2024 09:00		AR\AJ	Ok
2	I.BLK	I.BLK	PS028252.D	06 Nov 2024 09:24		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028253.D	06 Nov 2024 09:48		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS028254.D	06 Nov 2024 10:12		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS028255.D	06 Nov 2024 10:36		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028256.D	06 Nov 2024 11:00		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS028257.D	06 Nov 2024 11:24		AR\AJ	Ok
8	HSTDICV750	ICVPS110624	PS028258.D	06 Nov 2024 11:48		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS028259.D	06 Nov 2024 12:14		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028260.D	06 Nov 2024 12:38		AR\AJ	Ok
11	P4643-09RE	TP-9RE	PS028261.D	06 Nov 2024 13:02	Surrogate fail	AR\AJ	Confirms
12	PB164519BL	PB164519BL	PS028262.D	06 Nov 2024 13:26		AR\AJ	Ok,M
13	PB164519BS	PB164519BS	PS028263.D	06 Nov 2024 13:50		AR\AJ	Ok
14	PB164393TB	PB164393TB	PS028264.D	06 Nov 2024 14:14	Surrogate Fail	AR\AJ	Not Ok
15	P4578-06	WB-305-BOT	PS028265.D	06 Nov 2024 15:23		AR\AJ	Ok,M
16	P4682-01	BELL-SHOP-RAGS	PS028266.D	06 Nov 2024 15:50		AR\AJ	Ok,M
17	P4667-01	BP-F-6	PS028267.D	06 Nov 2024 16:14		AR\AJ	Ok,M
18	P4667-05	BP-F-5	PS028268.D	06 Nov 2024 16:39		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4667-09	BP-F-10	PS028269.D	06 Nov 2024 17:03		AR\AJ	Ok,M
20	P4667-13	BP-F-7	PS028270.D	06 Nov 2024 17:27		AR\AJ	Ok,M
21	I.BLK	I.BLK	PS028271.D	06 Nov 2024 17:51		AR\AJ	Ok,M
22	HSTDCCC750	HSTDCCC750	PS028272.D	06 Nov 2024 18:15		AR\AJ	Ok,M
23	P4679-01	MH-1	PS028273.D	06 Nov 2024 18:39		AR\AJ	Ok,M
24	P4680-01	BP-F26	PS028274.D	06 Nov 2024 19:03		AR\AJ	Ok,M
25	P4680-05	BP-F25	PS028275.D	06 Nov 2024 19:27		AR\AJ	Ok,M
26	P4695-01	Z-01	PS028276.D	06 Nov 2024 19:51		AR\AJ	Ok,M
27	P4693-01	BP-G5-WC	PS028277.D	06 Nov 2024 20:15		AR\AJ	Ok,M
28	P4693-05	BP-G4-WC	PS028278.D	06 Nov 2024 20:39		AR\AJ	Ok,M
29	P4711-01	CF-613-COMP-16	PS028279.D	06 Nov 2024 21:03		AR\AJ	Ok,M
30	P4711-06	CF-613-COMP-17	PS028280.D	06 Nov 2024 21:27		AR\AJ	Ok,M
31	P4719-01	BAYAVE-STOCKPILE	PS028281.D	06 Nov 2024 21:51		AR\AJ	Ok,M
32	PB164703BL	PB164703BL	PS028282.D	06 Nov 2024 22:15		AR\AJ	Ok,M
33	I.BLK	I.BLK	PS028283.D	06 Nov 2024 22:39		AR\AJ	Ok,M
34	HSTDCCC750	HSTDCCC750	PS028284.D	06 Nov 2024 23:03		AR\AJ	Ok,M
35	PB164703BS	PB164703BS	PS028285.D	06 Nov 2024 23:51		AR\AJ	Ok
36	PB164494BS	PB164494BS	PS028286.D	07 Nov 2024 00:15		AR\AJ	Ok,M
37	PB164494BSD	PB164494BSD	PS028287.D	07 Nov 2024 00:39		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM	PP23469		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

38	PB164578BS	PB164578BS	PS028288.D	07 Nov 2024 01:04		AR\AJ	Ok,M
39	P4694-01	Z-03A	PS028289.D	07 Nov 2024 01:28		AR\AJ	Ok,M
40	P4694-05	Z-04	PS028290.D	07 Nov 2024 01:52		AR\AJ	Ok,M
41	P4578-06MS	WB-305-BOTMS	PS028291.D	07 Nov 2024 02:16	Some compound recovery fail	AR\AJ	Ok,M
42	P4578-06MSD	WB-305-BOTMSD	PS028292.D	07 Nov 2024 02:40	Some compound recovery fail	AR\AJ	Ok,M
43	P4578-08	WB-305-BOT-1	PS028293.D	07 Nov 2024 03:04		AR\AJ	Ok,M
44	PB164559BL	PB164559BL	PS028294.D	07 Nov 2024 03:28		AR\AJ	Ok,M
45	PB164559BS	PB164559BS	PS028295.D	07 Nov 2024 03:52		AR\AJ	Ok,M
46	I.BLK	I.BLK	PS028296.D	07 Nov 2024 04:16		AR\AJ	Ok
47	HSTDCCC750	HSTDCCC750	PS028297.D	07 Nov 2024 04:40		AR\AJ	Ok,M
48	P4601-19	C0PI0	PS028298.D	07 Nov 2024 05:28		AR\AJ	Ok,M
49	P4601-20	C0PI2	PS028299.D	07 Nov 2024 05:52		AR\AJ	Ok,M
50	P4601-21	C0PI6	PS028300.D	07 Nov 2024 06:16		AR\AJ	Ok,M
51	P4601-22	C0PI8	PS028301.D	07 Nov 2024 06:40		AR\AJ	Ok,M
52	P4601-23	C0PI9	PS028302.D	07 Nov 2024 07:04		AR\AJ	Ok,M
53	P4601-24	CC0P1	PS028303.D	07 Nov 2024 07:28		AR\AJ	Ok,M
54	P4601-25	CC0P3	PS028304.D	07 Nov 2024 07:52		AR\AJ	Ok,M
55	P4601-26	CC0P5	PS028305.D	07 Nov 2024 08:16		AR\AJ	Ok,M
56	P4601-27	CC0P7	PS028306.D	07 Nov 2024 08:40		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

57	P4601-28	CC0P9	PS028307.D	07 Nov 2024 09:04		AR\AJ	Ok,M
58	I.BLK	I.BLK	PS028308.D	07 Nov 2024 09:28		AR\AJ	Ok
59	HSTDCCC750	HSTDCCC750	PS028309.D	07 Nov 2024 09:52		AR\AJ	Ok,M
60	P4660-03	WC-TA2-01-C	PS028310.D	07 Nov 2024 10:16		AR\AJ	Ok
61	P4660-07	WC-WOOD-01-C	PS028311.D	07 Nov 2024 10:40		AR\AJ	Ok,M
62	P4660-11	WC-CONCRETE-01-C	PS028312.D	07 Nov 2024 11:04		AR\AJ	Ok,M
63	P4660-03MS	WC-TA2-01-CMS	PS028313.D	07 Nov 2024 11:28		AR\AJ	Ok,M
64	P4660-03MSD	WC-TA2-01-CMSD	PS028314.D	07 Nov 2024 11:52		AR\AJ	Ok,M
65	PB164752BL	PB164752BL	PS028315.D	07 Nov 2024 12:16		AR\AJ	Ok,M
66	PB164752BS	PB164752BS	PS028316.D	07 Nov 2024 12:40		AR\AJ	Ok
67	PB164560TB	PB164560TB	PS028317.D	07 Nov 2024 13:04		AR\AJ	Ok,M
68	P4368-07	LOD-MDL-WATER-01-C	PS028318.D	07 Nov 2024 13:28		AR\AJ	Ok,M
69	I.BLK	I.BLK	PS028319.D	07 Nov 2024 13:52		AR\AJ	Ok
70	HSTDCCC750	HSTDCCC750	PS028320.D	07 Nov 2024 14:16		AR\AJ	Ok,M
71	P4601-29	CC0Q1	PS028321.D	07 Nov 2024 14:40	Closing CCC Fail	AR\AJ	Not Ok
72	P4601-30	CC0Q6	PS028322.D	07 Nov 2024 15:05	Closing CCC Fail	AR\AJ	Not Ok
73	P4601-31	CC0Q8	PS028323.D	07 Nov 2024 15:29	Closing CCC Fail	AR\AJ	Not Ok
74	P4601-32	CC0R3	PS028324.D	07 Nov 2024 15:53	Closing CCC Fail	AR\AJ	Not Ok
75	P4601-33	CC0R4	PS028325.D	07 Nov 2024 16:17	Closing CCC Fail	AR\AJ	Not Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM	PP23469		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

76	P4601-34	CC0R5	PS028326.D	07 Nov 2024 16:41	Closing CCC Fail	AR\AJ	Not Ok
77	P4601-35	CC0R6	PS028327.D	07 Nov 2024 17:05	Closing CCC Fail	AR\AJ	Not Ok
78	P4601-36	CC0R7	PS028328.D	07 Nov 2024 17:29	Closing CCC Fail	AR\AJ	Not Ok
79	P4601-37MS	CC0R7MS	PS028329.D	07 Nov 2024 17:53	Closing CCC Fail	AR\AJ	Not Ok
80	P4601-37MSD	CC0R7MSD	PS028330.D	07 Nov 2024 18:17	Closing CCC Fail	AR\AJ	Not Ok
81	I.BLK	I.BLK	PS028331.D	07 Nov 2024 18:41	Closing CCC Fail	AR\AJ	Not Ok
82	HSTDCCC750	HSTDCCC750	PS028332.D	07 Nov 2024 19:05	CCC Fail	AR\AJ	Not Ok

M : Manual Integration

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RJ

Filter By: EH

pH Meter ID: N/A

Hood ID: 4,7

Extraction Start Date : 10/28/2024

Extraction Start Time : 13:45

Extraction End Date : 10/29/2024

Extraction End Time : 10:55

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP23699
Surrogate	1.0ML	5000 PPB	PP23907
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
12N H2SO4	N/A	EP2552
NAOH 6N	N/A	EP2553
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14150
Diazomethane	N/A	EP2529
Hexane	N/A	E3819
NACL	N/A	M4459
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: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/29/24	RP (Set Lab)	R. Post / PCB Lab
11:00	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 10/29/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164494BL	HBLK494	Herbicide	1000	6	ritesh	rajesh	10			SEP-01
PB164494BS	HLCS494	Herbicide	1000	6	ritesh	rajesh	10			2
PB164494BS D	HLCSD494	Herbicide	1000	6	ritesh	rajesh	10			3
P4593-01	COPI1	Herbicide	1000	6	ritesh	rajesh	10	A		4
P4593-02	COPI5	Herbicide	1000	6	ritesh	rajesh	10			5

* Extracts relinquished on the same date as received.

D
10/29/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4593 WorkList ID : 184895 Department : Extraction Date : 10-28-2024 13:43:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4593-01	C0P11	Water	Herbicide	Cool 4 deg C	TETR16	K61	10/22/2024	8151A
P4593-02	C0P15	Water	Herbicide	Cool 4 deg C	TETR16	K61	10/22/2024	8151A

Date/Time 10/28/24 13:44
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Prep Standard - Chemical Standard Summary

Order ID : P4593

Test : Herbicide

Prepbatch ID : PB164494,

Sequence ID/Qc Batch ID: PS103124,PS110624,

Standard ID :

EP2503,EP2552,EP2553,PP23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469,PP23699,PP23907,

Chemical ID :

E3370,E3551,E3554,E3657,E3754,E3788,E3815,M5037,M5173,P11179,P12618,P12661,P12707,P12782,P12783,P13498,P13499,P13500,P13501,P23457,P8828,P8901,P9004,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>
3883	12N H2SO4 solution	EP2552	10/21/2024	04/21/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 10/21/2024

FROM 333.00000ml of M5173 + 667.00000ml of W3112 = Final Quantity: 1000.000 ml

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>
3884	6 N NAOH	EP2553	10/21/2024	04/21/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/21/2024

FROM 1000.00000ml of W3112 + 240.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1321	2/200 PPM Herb Mega Mix	PP23457	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani 06/18/2024

FROM 0.20000ml of P8828 + 1.00000ml of P11179 + 1.00000ml of P12618 + 1.00000ml of P12661 + 1.00000ml of P8901 +
95.80000ml of E3754 = 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	PP23458	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
06/18/2024								

FROM 0.25000ml of E3754 + 75.00000ml of PP23457 = 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	PP23459	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
06/18/2024								

FROM 0.50000ml of E3754 + 0.50000ml of PP23457 = 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>
1455	500 PPB Herb MIX STD	PP23460	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
06/18/2024								

FROM 0.50000ml of E3754 + 0.50000ml of PP23459 = 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>
1456	200 PPB Herb MIX STD	PP23461	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
06/18/2024								

FROM 0.80000ml of E3754 + 0.20000ml of PP23459 = 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	PP23462	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.25000ml of E3754 + 0.75000ml of PP23459 = 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>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP23467	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of P9004 + 1.00000ml of P12707 + 48.50000ml of E3754 = Final Quantity: 50.000 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>
1854	1000 PPB HERB MIX ICV STD	PP23468	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
06/18/2024								

FROM 0.50000ml of E3754 + 0.50000ml of PP23467 = 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>
1691	750 PPB ICV HERB STD	PP23469	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
06/18/2024								

FROM 0.25000ml of E3754 + 0.75000ml of PP23468 = 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>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP23699	09/24/2024	02/13/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 1.25000ml of P12782 + 1.25000ml of P12783 + 47.50000ml of E3788 = 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)	PP23907	10/21/2024	04/04/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/22/2024

FROM 1.25000ml of P13498 + 1.25000ml of P13499 + 1.25000ml of P13500 + 1.25000ml of P13501 + 195.00000ml of E3815 = Final Quantity: 200.000 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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	12/04/2024	06/04/2024 / Rajesh	05/31/2024 / Rajesh	E3754

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)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

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	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

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 #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	12/17/2024	06/17/2024 / Abdul	11/01/2021 / Abdul	P11179

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	12/17/2024	06/17/2024 / Abdul	07/03/2023 / Abdul	P12618

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	A0199693	12/17/2024	06/17/2024 / Abdul	07/14/2023 / Ankita	P12661

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	12/17/2024	06/17/2024 / Abdul	08/09/2023 / Abdul	P12707

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	12/17/2024	06/17/2024 / Abdul	08/09/2023 / Abdul	P12707

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	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12782

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	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12782

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	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12783

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	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12783

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	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13498

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	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13499

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	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13500

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	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13501

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0148063	12/17/2024	06/17/2024 / Abdul	08/16/2019 / Stephen	P8828

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	A0152499	12/17/2024	06/17/2024 / Abdul	08/16/2019 / Stephen	P8901

CHEMICAL RECEIPT LOG BOOK

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	A0152705	12/17/2024	06/17/2024 / Abdul	10/11/2019 / Stephen	P9004

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

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,

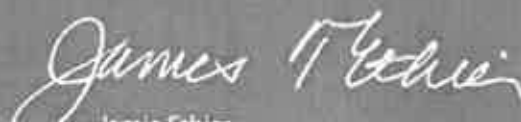
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation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

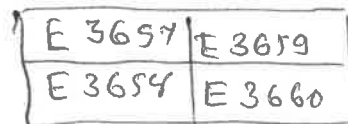
This document has been electronically produced and is valid without a signature.

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.



Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as 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	0.4 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

Recd. by R1 on 5/31/24

E3754



Jamie Croak
Director Quality Operations, Bioscience Production

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



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

E3815


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

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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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:

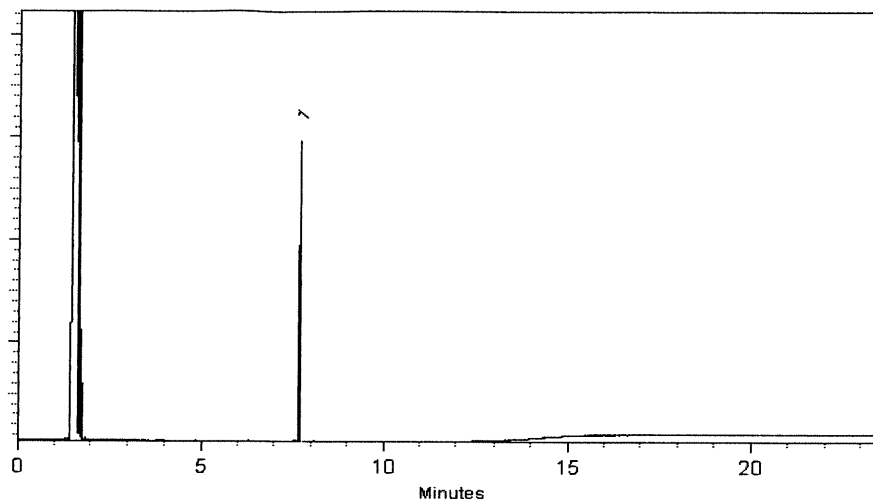
250°C

Det. Temp:

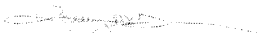
330°C

Det. Type:

FID

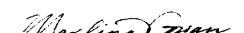


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864
Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard
515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : February 29, 2028 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

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

P11177
↓
P11186
—
AR
01/02/21



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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

8	Acifluorfen methyl ester		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 50594-67-7	(Lot 6282300)			+/-	6.7507	µg/mL	Unstressed
	Purity 99%				+/-	6.7507	µg/mL	Stressed

Solvent: Hexane/Methyl-tert-butyl-ether
CAS # 110-54-3/1634-04-4
Purity 99%

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

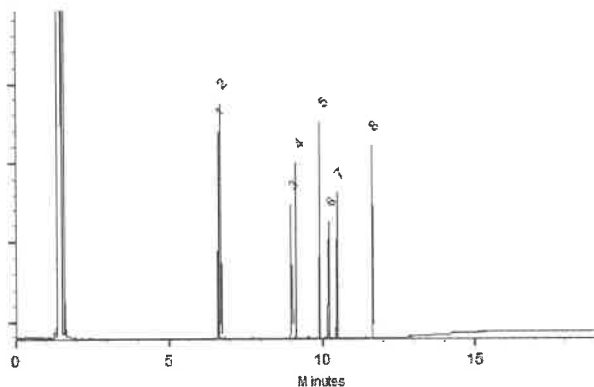
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Michael Maje

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson
 Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32055 **Lot No.:** A0199693

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 : July 31, 2030 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

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	1813500	99%	202.0 µg/mL	+/- 3.4272
2	Dichlorprop methyl ester	57153-17-0	8578700	98%	201.9 µg/mL	+/- 3.4251
3	2,4-D methyl ester	1928-38-7	10048000	99%	202.0 µg/mL	+/- 3.4272
4	2,4,5-TP (silvex) methyl ester	4841-20-7	504400	99%	202.0 µg/mL	+/- 3.4272
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	201.9 µg/mL	+/- 3.4251
6	Dinoseb methyl ether	6099-79-2	9239100	99%	202.0 µg/mL	+/- 3.4272
7	2,4-DB methyl ester	18625-12-2	6847200	99%	202.0 µg/mL	+/- 3.4272

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

P12660
↓
P12664

AJ
07/11/23

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:

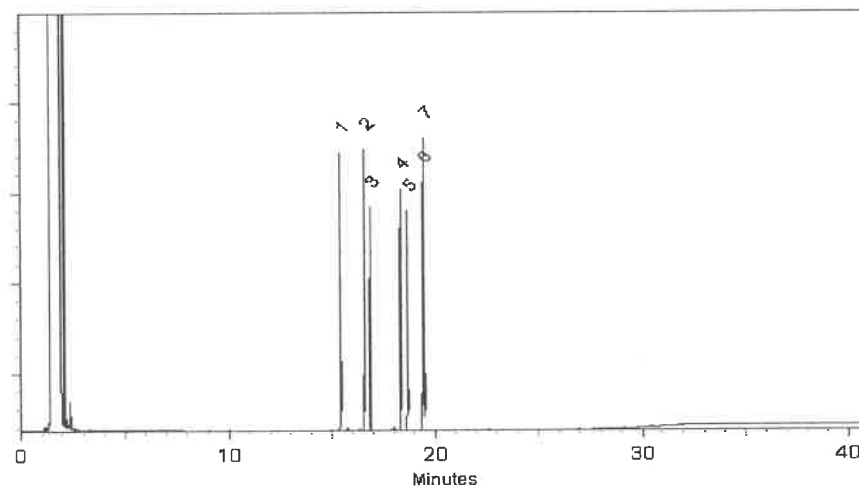
FID

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.

Nick Yaw
Nick Yaw - Operations Tech I

Date Mixed: 07-Jul-2023

Balance Serial # 1128360905

Christie Mills
Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 11-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.

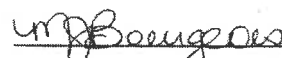
Expiration of Certification:

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

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	100.4 ± 50 µg/mL	000094-74-6	RM12220	
MCPP (mecoprop)	100.37 ± 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

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 / 1

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.

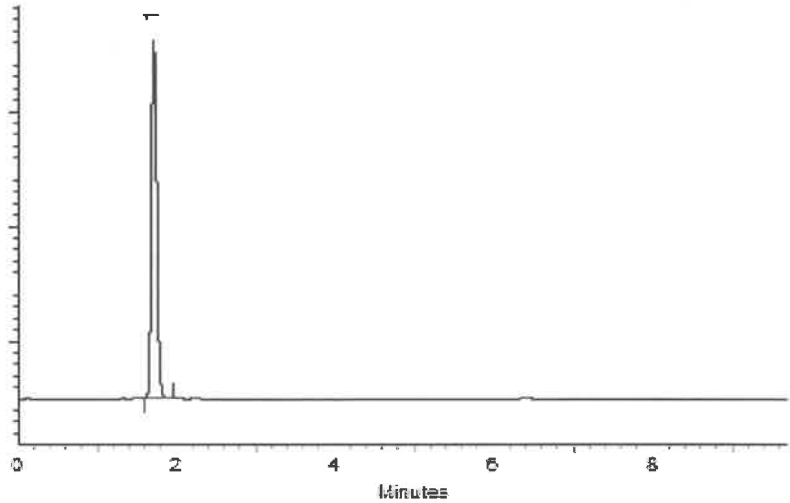
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

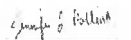


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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



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.

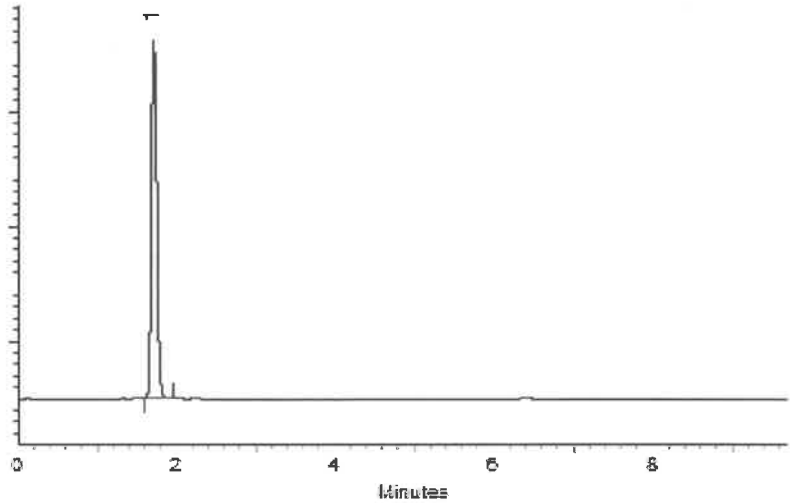
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

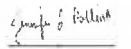


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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



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.

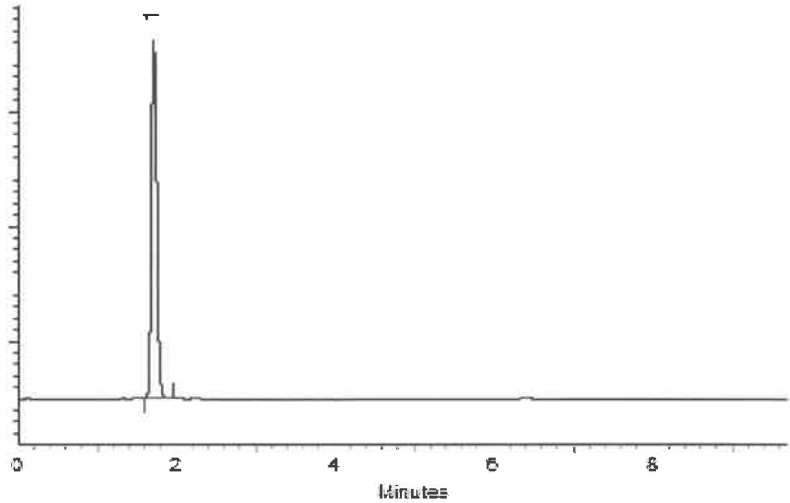
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

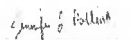


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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



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.

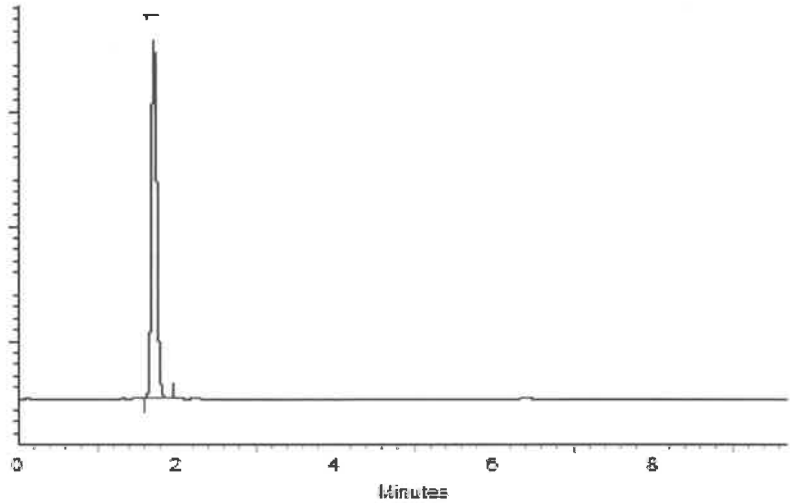
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

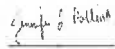


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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



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. : 32254 **Lot No.:** A0148063
Description : Dalapon methyl ester Standard
Dalapon methyl ester 1000µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive.

Received by
SG on 8/16/19
P8828
P8826

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dalapon methyl ester CAS # 17640-02-7 Purity 98% (Lot 1764600)	999.6 µg/mL	+/- 10.0697 µg/mL Gravimetric +/- 34.4896 µg/mL Unstressed +/- 34.4896 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

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

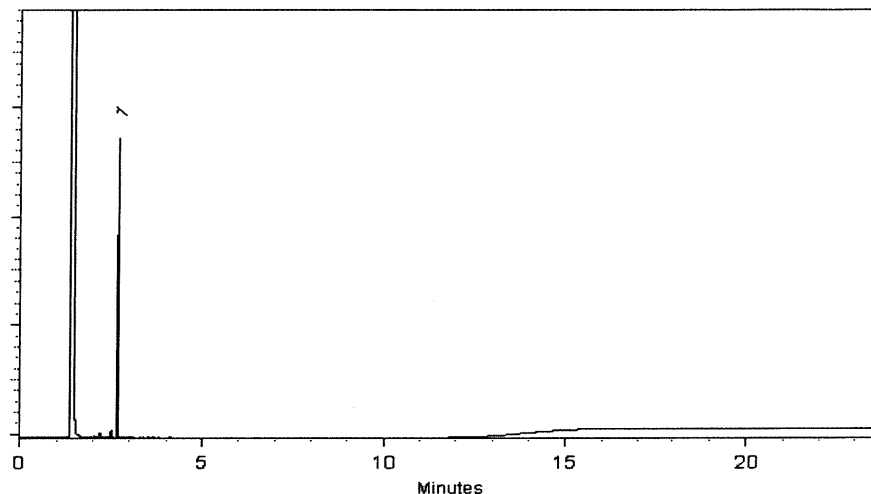
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

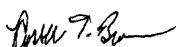
Inj. Temp:
250°C

Det. Temp:
330°C

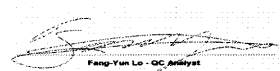
Det. Type:
FID



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.


Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2019 **Balance:** 1127510105


Feng-Yin Lo - QC Analyst

Date Passed: 15-Apr-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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.

Received by
SG on 9/10/19
P8892
P8896

Catalog No. : 32059 **Lot No.:** A0152499
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 : September 30, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)							
1	MCPP (Mecoprop) methyl ester		20,004.0 μg/mL	+/-	185.1208	μg/mL	Gravimetric				
	CAS #	23844-56-6 (Lot 8685200)						+/-	685.5986	μg/mL	Unstressed
	Purity	99%						+/-	685.5986	μg/mL	Stressed
2	MCPA methyl ester		20,012.0 μg/mL	+/-	185.1948	μg/mL	Gravimetric				
	CAS #	2436-73-9 (Lot 7964600)						+/-	685.8728	μg/mL	Unstressed
	Purity	99%						+/-	685.8728	μg/mL	Stressed
Solvent:	Hexane										
	CAS #	110-54-3									
	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:

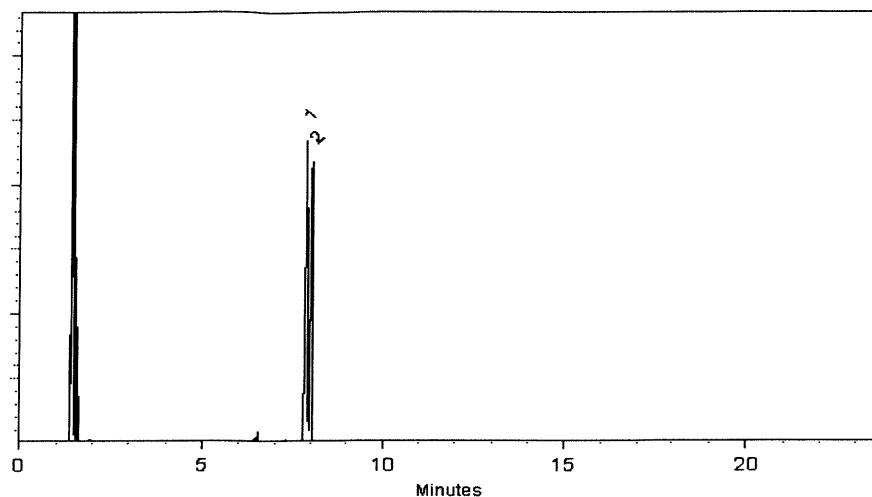
250°C

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.

Russ Bookhamer - Operations Technician I

Date Mixed: 03-Sep-2019

Balance: 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 05-Sep-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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.: A0152705
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 : June 30, 2026 Storage: 10°C or colder
Handling: This product is photosensitive.

Received by
SG on 10/11/19
P8999
-
P9008

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.7507 µg/mL Unstressed
	Purity 99%		+/- 6.7507 µg/mL Stressed

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

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

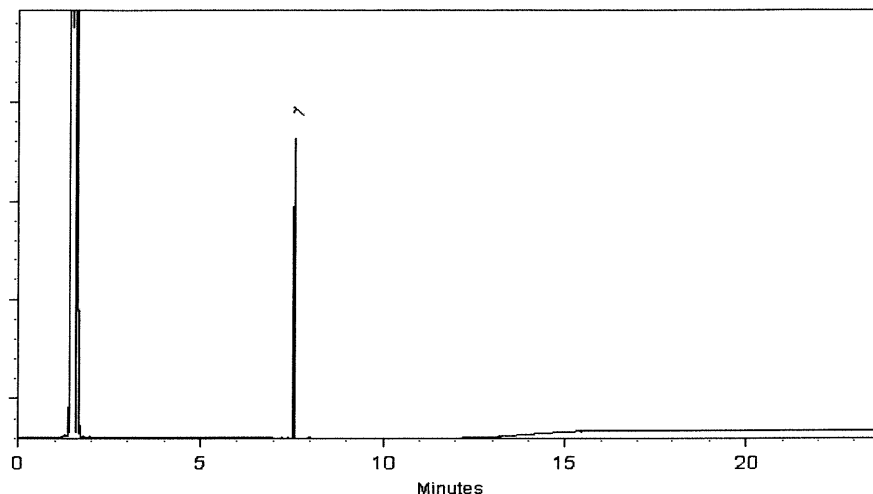
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 09-Sep-2019

Balance: B707717271

Fang-Yun Lo
Fang-Yun Lo - QC Analyst

Date Passed: 11-Sep-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



SHIPPING DOCUMENTS

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

CHAIN OF CUSTODY RECORD

No: 3-102524-155132-0003

Lab: Chemtech Consulting Group

Lab Contact: Emanuel Hedvat

Lab Phone: 908-789-8900

[illegible]

Shipment for Case Complete? N

Samples Transferred From Chain of Custody

Analysis Key: HERB=Herbicides - aq

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Johnnie STARK	10/25/24 1200	[Signature]	0900 10-26-2024	Items 1, 5, 6 in even #1
					Custody real intact
					Temp BLC present

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