

Cover Page

Order ID : P5362

Project ID : Con Ed Non-MGP - East River SI 453648

Client : PARSONS Main of New York, Inc.

Lab Sample Number

P5362-01
P5362-02

Client Sample Number

WC-SOIL-20241219
WC-SOIL-20241219

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

Signature : _____

Date: 1/2/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5362

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 Castody

✓

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: NILESH PRAJAPATI

Date: 01/02/2025

LAB CHRONICLE

OrderID:	P5362	OrderDate:	12/20/2024 10:07:00 AM
Client:	PARSONS Main of New York, Inc.	Project:	Con Ed Non-MGP - East River SI 453648
Contact:	Stephen Liberatore	Location:	N21,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5362-01	WC-SOIL-20241219	SOIL			12/19/24			12/19/24
			PCB	8082A		12/20/24	12/20/24	
			TPH GC	8015D		12/23/24	12/23/24	
P5362-02	WC-SOIL-20241219	TCLP			12/19/24			12/19/24
			TCLP Herbicide	8151A		12/27/24	12/27/24	
			TCLP Pesticide	8081B		12/27/24	12/27/24	



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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P5362

Order ID: P5362

Client: PARSONS Main of New York, Inc.

Project ID: Con Ed Non-MGP - East River SI 4536

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

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: **P5362**

Client: **PARSONS Main of New York, Inc.**

Analytical Method: **8151A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS028786.D	PIBLK-PS028786.D	2,4-DCAA	1	500	469	94		39	175
		2,4-DCAA	2	500	482	96		39	175
I.BLK-PS028836.D	PIBLK-PS028836.D	2,4-DCAA	1	500	568	114		39	175
		2,4-DCAA	2	500	514	103		39	175
PB165896BL	PB165896BL	2,4-DCAA	1	500	580	116		39	175
		2,4-DCAA	2	500	504	101		39	175
PB165896BS	PB165896BS	2,4-DCAA	1	500	575	115		39	175
		2,4-DCAA	2	500	522	104		39	175
P5362-02	WC-SOIL-20241219	2,4-DCAA	1	500	733	147		39	175
		2,4-DCAA	2	500	411	82		39	175
P5362-02MS	WC-SOIL-20241219MS	2,4-DCAA	1	500	716	143		39	175
		2,4-DCAA	2	500	394	79		39	175
P5362-02MSD	WC-SOIL-20241219MSD	2,4-DCAA	1	500	715	143		39	175
		2,4-DCAA	2	500	394	79		39	175
I.BLK-PS028845.D	PIBLK-PS028845.D	2,4-DCAA	1	500	570	114		39	175
		2,4-DCAA	2	500	515	103		39	175
I.BLK-PS028861.D	PIBLK-PS028861.D	2,4-DCAA	1	500	591	118		39	175
		2,4-DCAA	2	500	513	103		39	175
PB165858TB	PB165858TB	2,4-DCAA	1	500	634	127		39	175
		2,4-DCAA	2	500	355	71		39	175
I.BLK-PS028864.D	PIBLK-PS028864.D	2,4-DCAA	1	500	600	120		39	175
		2,4-DCAA	2	500	519	104		39	175

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5362

Client: PARSONS Main of New York, Inc.

Analytical Method: 8151A

DataFile : PS028842.D

Lab Sample ID:	Parameter	Spike	Sample		Units	Rec	Rec		RPD		Limits	
			Result	Result			Qual	RPD	Qual	Low	High	RPD
Client Sample ID: P5362-02MS	WC-SOIL-20241219MS											
	2,4-D	50	0	56.3	ug/L	113				65	135	
	2,4,5-TP(Silvex)	50	0	60.6	ug/L	121				62	139	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5362

Client: PARSONS Main of New York, Inc.

Analytical Method: 8151A

DataFile : PS028843.D

Lab Sample ID:	Parameter	Spike	Sample		Units	Rec	Rec		RPD		Limits	
			Result	Result			Qual	RPD	Qual	Low	High	RPD
Client Sample ID:	WC-SOIL-20241219MSD											
P5362-02MSD	2,4-D	50	0	55.1	ug/L	110		3		65	135	20
	2,4,5-TP(Silvex)	50	0	62.5	ug/L	125		3		62	139	20



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5362

Client: PARSONS Main of New York, Inc.

Analytical Method: 8151A **Datafile :** PS028839.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB165896BS	2,4-D	5	5.30	ug/L	106				83	130	
	2,4,5-TP(Silvex)	5	5.60	ug/L	112				78	127	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165896BL

Lab Name: CHEMTECH

Contract: PARS02

Lab Code: CHEM Case No.: P5362

SAS No.: P5362 SDG NO.: P5362

Lab Sample ID: PB165896BL

Lab File ID: PS028838.D

Matrix: (soil/water) water

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 12/27/2024

Date Analyzed (1): 12/27/2024

Date Analyzed (2): 12/27/2024

Time Analyzed (1): 21:08

Time Analyzed (2): 21:08

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
PB165896BS	PB165896BS	PS028839.D	12/27/2024	12/27/2024
WC-SOIL-20241219	P5362-02	PS028841.D	12/27/2024	12/27/2024
WC-SOIL-20241219MS	P5362-02MS	PS028842.D	12/27/2024	12/27/2024
WC-SOIL-20241219MSD	P5362-02MSD	PS028843.D	12/27/2024	12/27/2024
PB165858TB	PB165858TB	PS028863.D	12/31/2024	12/31/2024

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	PARSONS Main of New York, Inc.	Date Collected:	12/19/24
Project:	Con Ed Non-MGP - East River SI 453648	Date Received:	12/19/24
Client Sample ID:	WC-SOIL-20241219	SDG No.:	P5362
Lab Sample ID:	P5362-02	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028841.D	1	12/27/24 10:20	12/27/24 22:20	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	733		39 - 175	147%	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\PS122724\
Data File : PS028841.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 22:20
Operator : AR\AJ
Sample : P5362-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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	7.205	7.694	1657.8E6	462.4E6	732.864	410.868 #

Target Compounds

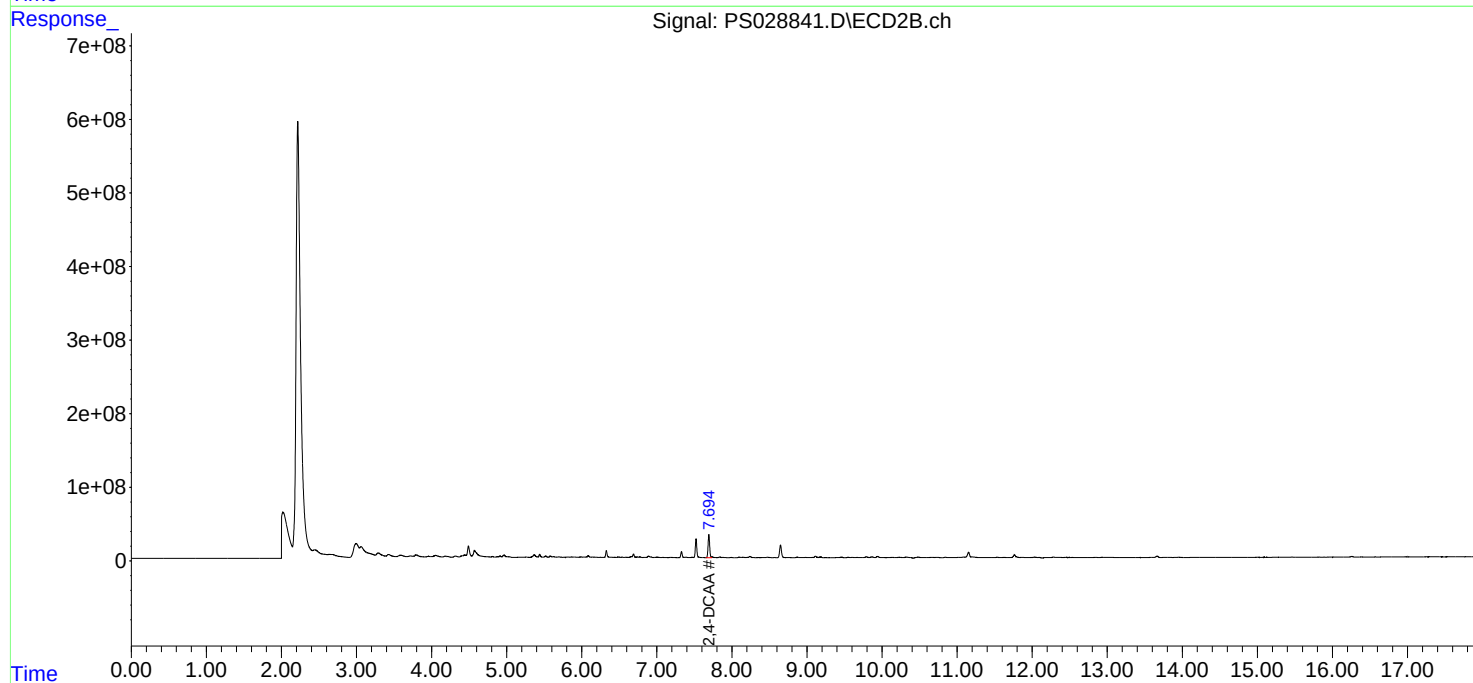
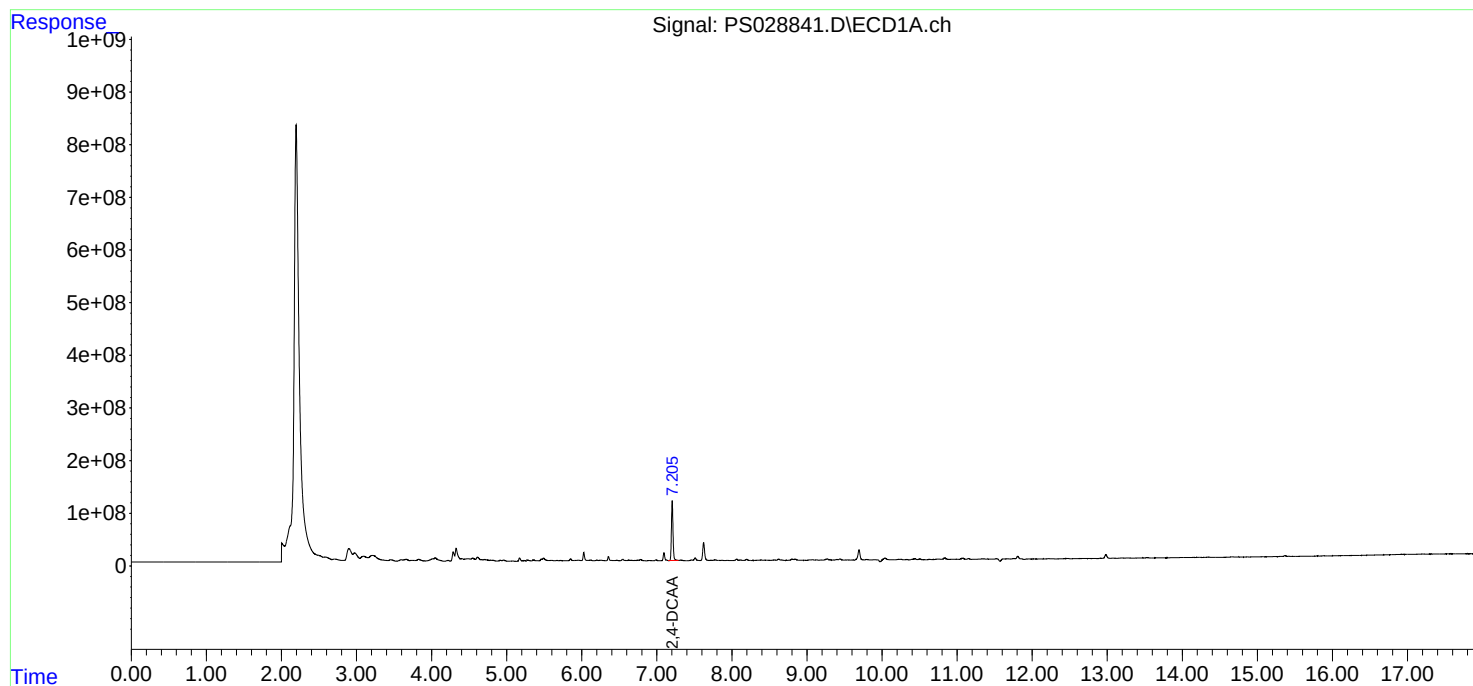
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

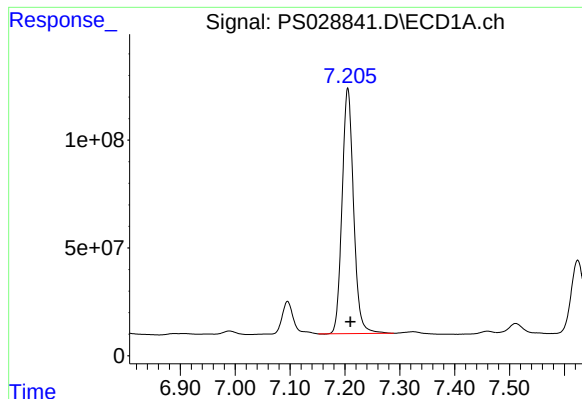
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028841.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 22:20
Operator : AR\AJ
Sample : P5362-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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

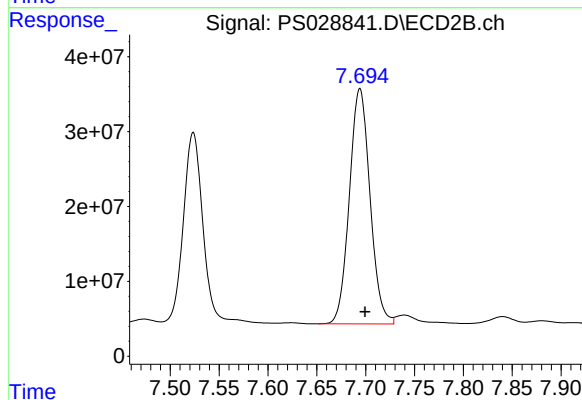




#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.005 min
Response: 1657757198
Conc: 732.86 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 462447348
Conc: 410.87 ng/ml

Report of Analysis

Client:	PARSONS Main of New York, Inc.	Date Collected:	
Project:	Con Ed Non-MGP - East River SI 453648	Date Received:	12/27/24
Client Sample ID:	PB165858TB	SDG No.:	P5362
Lab Sample ID:	PB165858TB	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028863.D	1	12/27/24 10:20	12/31/24 11:52	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	634		39 - 175	127%	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\PS123124\
Data File : PS028863.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 11:52
Operator : AR\AJ
Sample : PB165858TB
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165858TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:25:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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	7.208	7.689	1435.2E6	399.2E6	634.476	354.692 #

Target Compounds

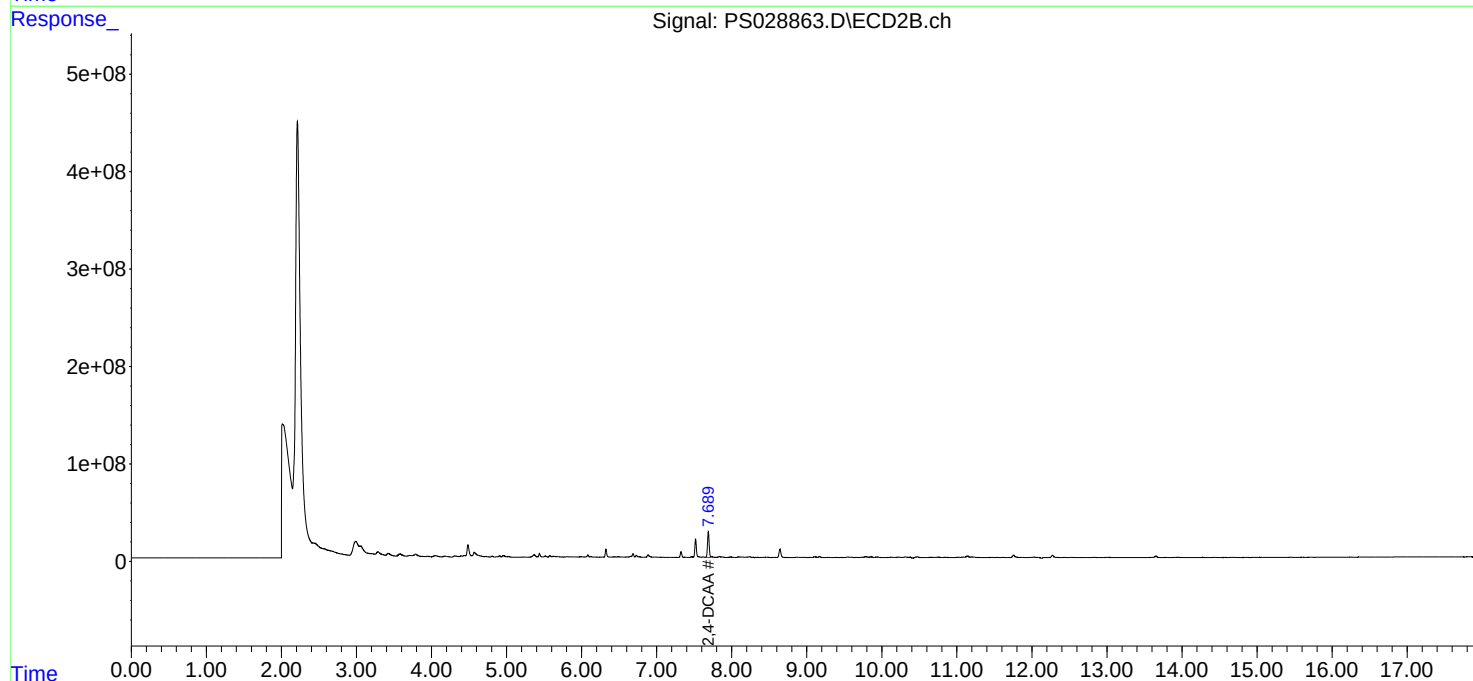
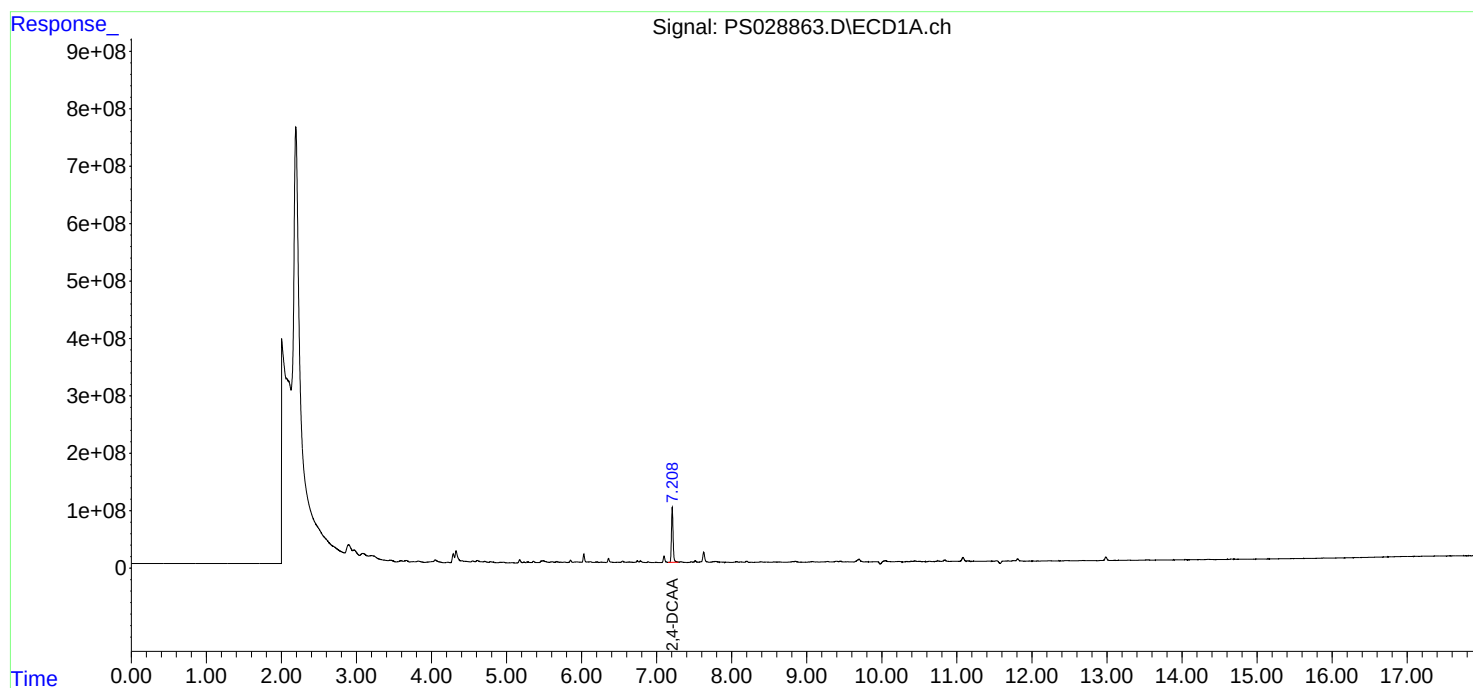
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

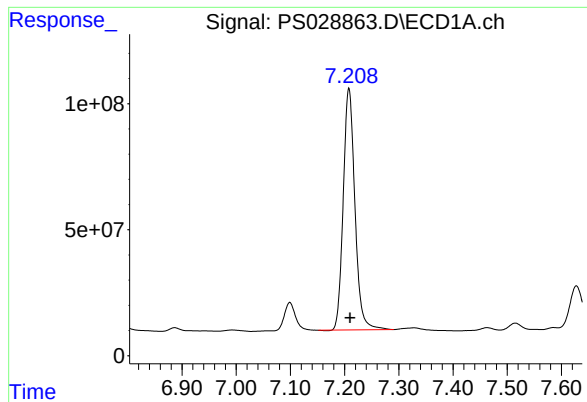
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028863.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 11:52
Operator : AR\AJ
Sample : PB165858TB
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165858TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:25:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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

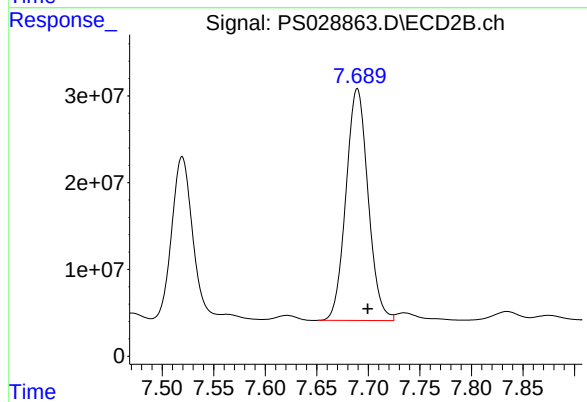




#4 2,4-DCAA

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 1435201381
Conc: 634.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165858TB



#4 2,4-DCAA

R.T.: 7.689 min
Delta R.T.: -0.010 min
Response: 399218780
Conc: 354.69 ng/ml



CALIBRATION SUMMARY

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

LAB FILE ID:	RT 200 =	<u>PS028787.D</u>	RT 500 =	<u>PS028788.D</u>
RT 750 =	PS028789.D	RT 1000 =	PS028790.D	RT 1500 =
				PS028791.D

[illegible]

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

LAB FILE ID:	RT 200 =	<u>PS028787.D</u>	RT 500 =	<u>PS028788.D</u>
RT 750 =	PS028789.D	RT 1000 =	PS028790.D	RT 1500 =
				PS028791.D

[illegible]



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Fax : 908 789 8922

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

Instrument ID: ECD_S

Calibration Date(s): 12/23/2024 12/23/2024

Calibration Times: 11:23 12:59

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

LAB FILE ID:		CF 200 =	<u>PS028787.D</u>	CF 500 =	<u>PS028788.D</u>		
CF 750 =		<u>PS028789.D</u>	CF 1000 =	<u>PS028790.D</u>	CF 1500 =	<u>PS028791.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	16812700000	15996100000	15801400000	15298000000	14638400000	15709300000	5
2,4-D	3146520000	2896320000	2842430000	2725340000	2637060000	2849530000	7
2,4-DCAA	2519360000	2280310000	2254700000	2149750000	2106010000	2262030000	7

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PARS02
Lab Code: CHEM **Case No.:** P5362 **SAS No.:** P5362 **SDG NO.:** P5362
Instrument ID: ECD_S **Calibration Date(s):** 12/23/2024 12/23/2024
Calibration Times: 11:23 12:59

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

LAB FILE ID:		CF 200 = <u>PS028787.D</u>		CF 500 = <u>PS028788.D</u>			
CF 750 = <u>PS028789.D</u>		CF 1000 = <u>PS028790.D</u>		CF 1500 = <u>PS028791.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	9147430000	9053780000	9109830000	8920050000	8686470000	8983510000	2
2,4-D	1472990000	1449810000	1452790000	1429890000	1410250000	1443150000	2
2,4-DCAA	1184820000	1126220000	1123240000	1104090000	1089310000	1125540000	3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028787.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 11:23
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC200

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 12/26/2024
 Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 23 13:43:30 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:35:06 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	7.210	7.699	503.9E6	237.0E6	222.752	210.534
Target Compounds							
1) T	Dalapon	2.620	2.673	500.0E6	362.7E6	177.529	184.238
2) T	3,5-DICHL...	6.385	6.661	668.9E6	323.0E6	203.004	194.854
3) T	4-Nitroph...	7.008	7.228	299.9E6	166.2E6	199.645	198.584
5) T	DICAMBA	7.396	7.897	1911.4E6	998.4E6	193.846	181.867
6) T	MCPD	7.574	7.997	100.3E6	58391123	16.119m	17.869
7) T	MCPA	7.723	8.239	151.0E6	85488472	17.227	18.453
8) T	DICHLORPROP	8.101	8.611	551.3E6	266.5E6	207.799	193.146
9) T	2,4-D	8.331	8.939	591.5E6	276.9E6	207.594	191.888
10) T	Pentachlo...	8.628	9.464	8263.2E6	4286.0E6	211.512	196.616
11) T	2,4,5-TP ...	9.205	9.842	3194.4E6	1738.0E6	203.346	193.467
12) T	2,4,5-T	9.498	10.260	3340.3E6	1703.5E6	205.314	195.600
13) T	2,4-DB	10.069	10.826	695.4E6	175.1E6	222.773	180.294
14) T	DINOSEB	11.276	11.204	2736.5E6	1244.5E6	203.581	202.062
15) T	Picloram	11.084	12.292	5334.3E6	2328.7E6	198.947	181.377
16) T	DCPA	11.570	12.245	4983.4E6	2065.0E6	207.201	192.188

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028787.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:23
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

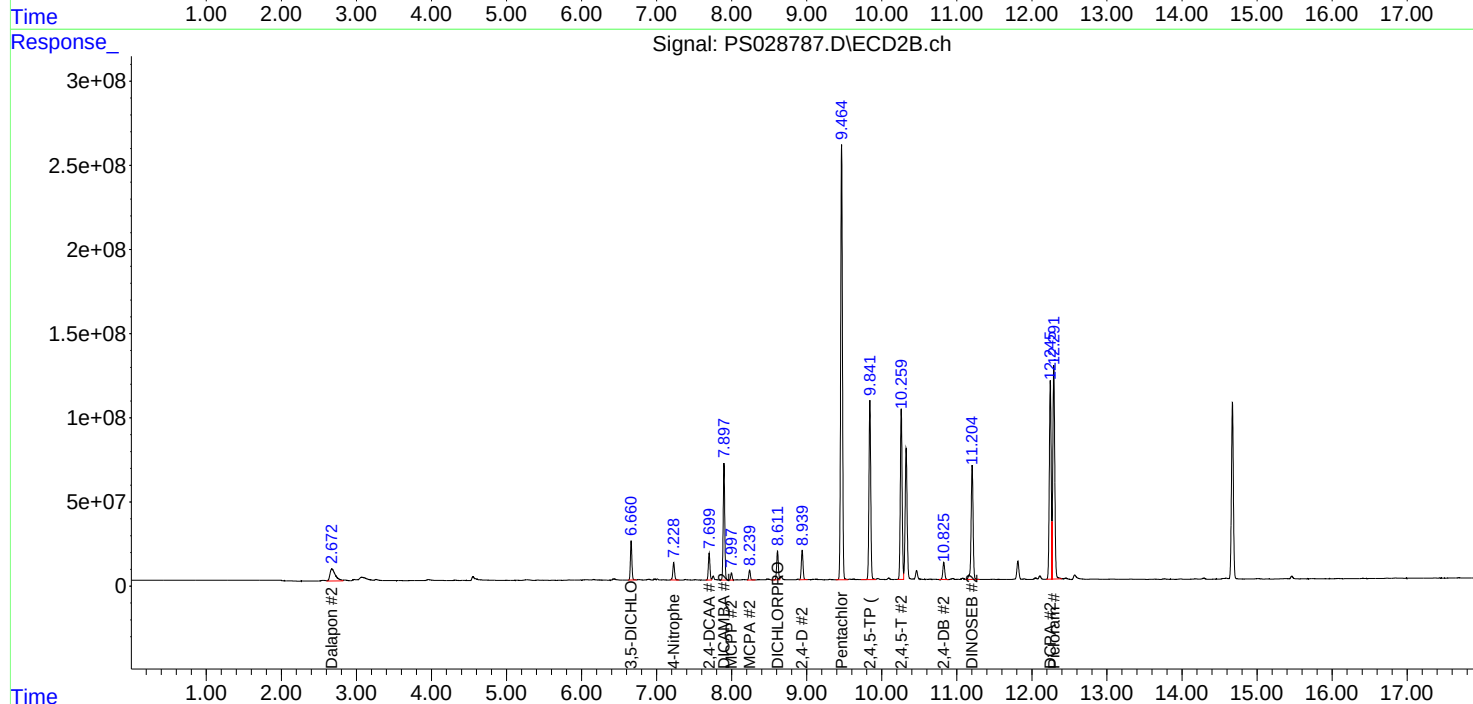
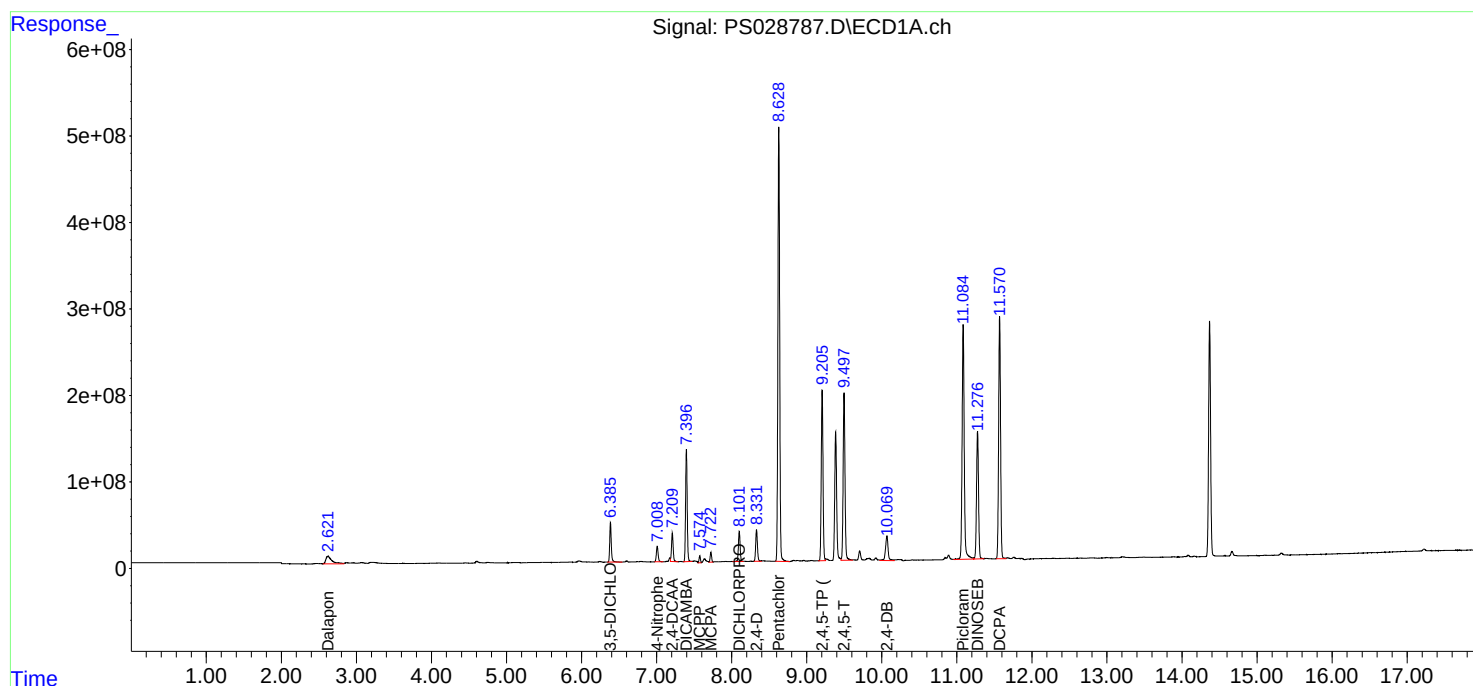
Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

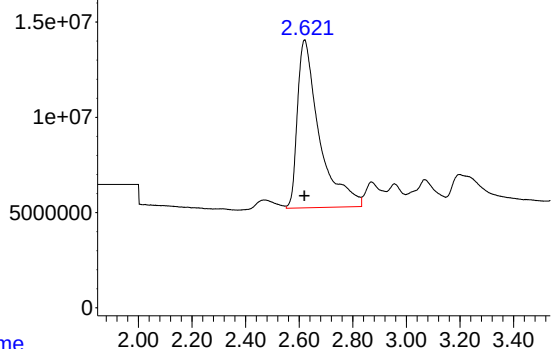
Reviewed By : Abdul Mirza 12/26/2024
Supervised By : Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:43:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 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: PS028787.D\ECD1A.ch



#1 Dalapon

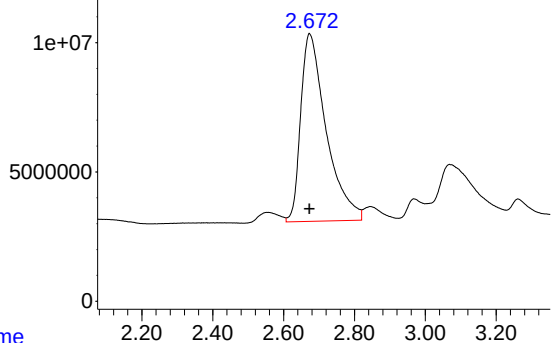
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 500038468
Conc: 177.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

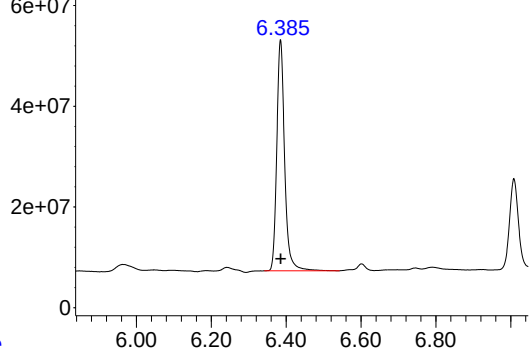
Time Response_ Signal: PS028787.D\ECD2B.ch



#1 Dalapon

R.T.: 2.673 min
Delta R.T.: 0.000 min
Response: 362691844
Conc: 184.24 ng/ml

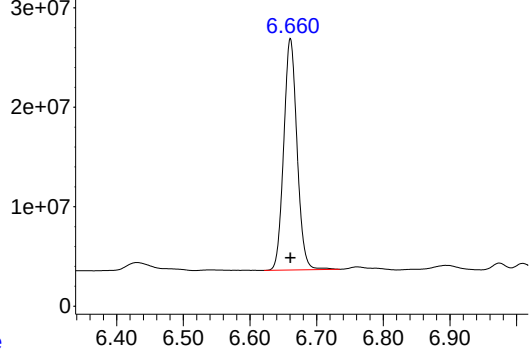
Time Response_ Signal: PS028787.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

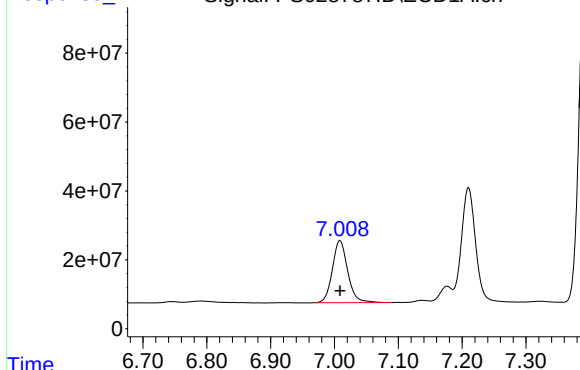
R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 668926243
Conc: 203.00 ng/ml

Time Response_ Signal: PS028787.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.661 min
Delta R.T.: 0.000 min
Response: 322985148
Conc: 194.85 ng/ml



R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 299878461
Conc: 199.65 ng/ml

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

APPROVED

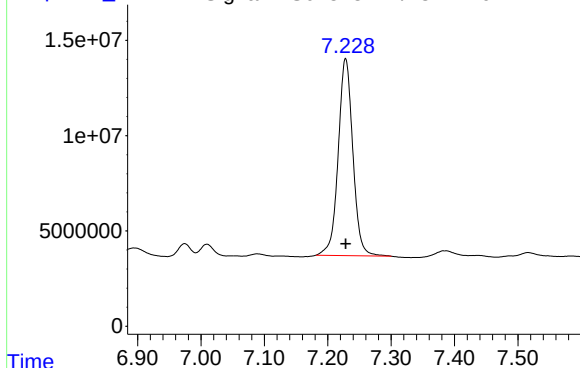
Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Time

Response_

Signal: PS028787.D\ECD2B.ch

#3 4-Nitrophenol



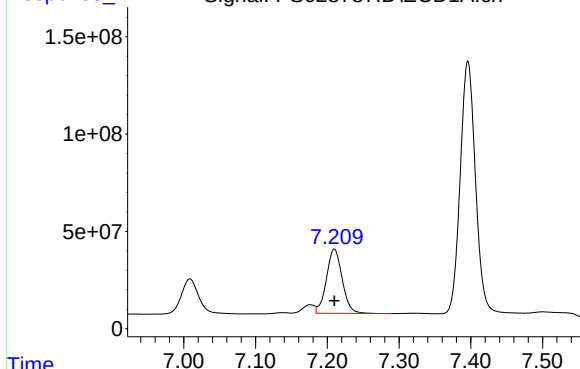
R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 166193367
Conc: 198.58 ng/ml

Time

Response_

Signal: PS028787.D\ECD1A.ch

#4 2,4-DCAA



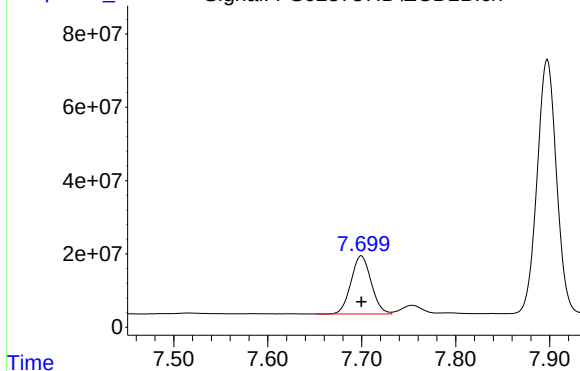
R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 503871113
Conc: 222.75 ng/ml

Time

Response_

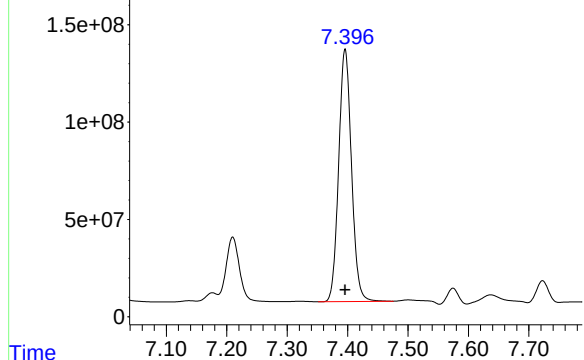
Signal: PS028787.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 236963416
Conc: 210.53 ng/ml

Response_ Signal: PS028787.D\ECD1A.ch



#5 DICAMBA

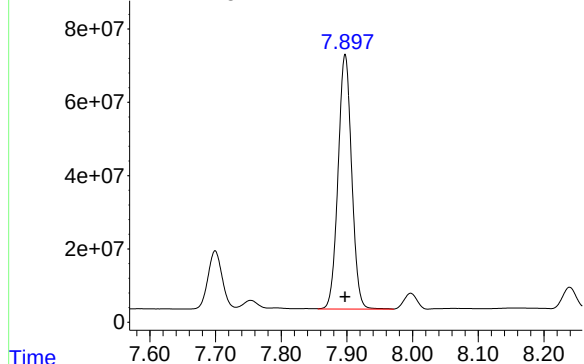
R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 1911442793
Conc: 193.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

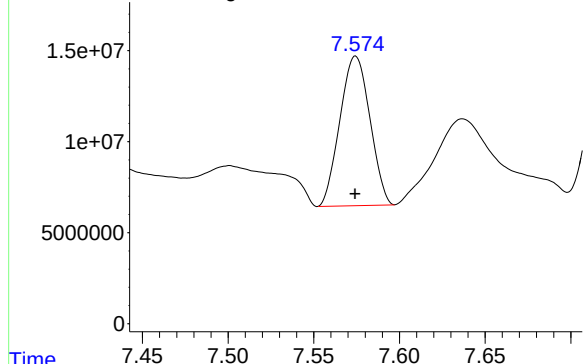
Time Response_ Signal: PS028787.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.897 min
Delta R.T.: 0.000 min
Response: 998426779
Conc: 181.87 ng/ml

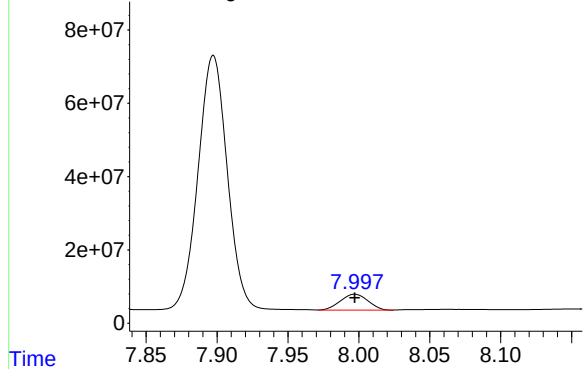
Time Response_ Signal: PS028787.D\ECD1A.ch



#6 MCPP

R.T.: 7.574 min
Delta R.T.: 0.000 min
Response: 100286284
Conc: 16.12 ug/ml m

Time Response_ Signal: PS028787.D\ECD2B.ch



#6 MCPP

R.T.: 7.997 min
Delta R.T.: 0.000 min
Response: 58391123
Conc: 17.87 ug/ml

Response_ Signal: PS028787.D\ECD1A.ch

#7 MCPA

R.T.: 7.723 min
Delta R.T.: 0.000 min
Response: 151004248
Conc: 17.23 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

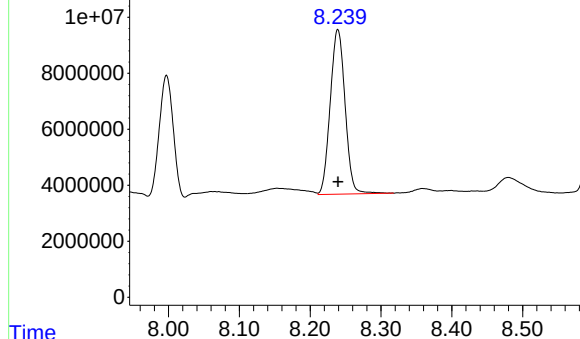
Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Time

Response_ Signal: PS028787.D\ECD2B.ch

#7 MCPA

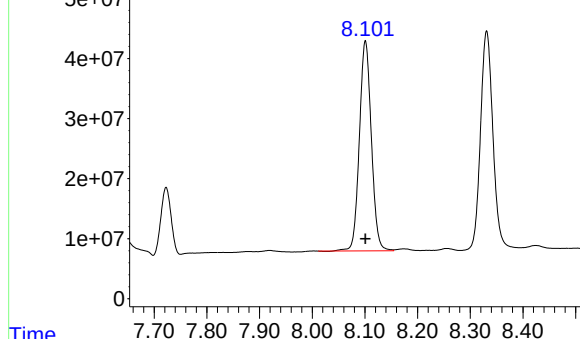
R.T.: 8.239 min
Delta R.T.: 0.000 min
Response: 85488472
Conc: 18.45 ug/ml



Response_ Signal: PS028787.D\ECD1A.ch

#8 DICHLORPROP

R.T.: 8.101 min
Delta R.T.: 0.000 min
Response: 551327966
Conc: 207.80 ng/ml

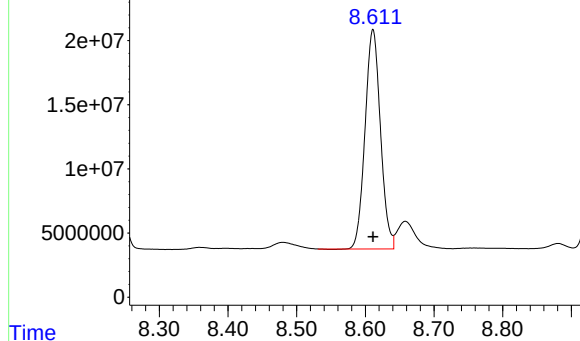


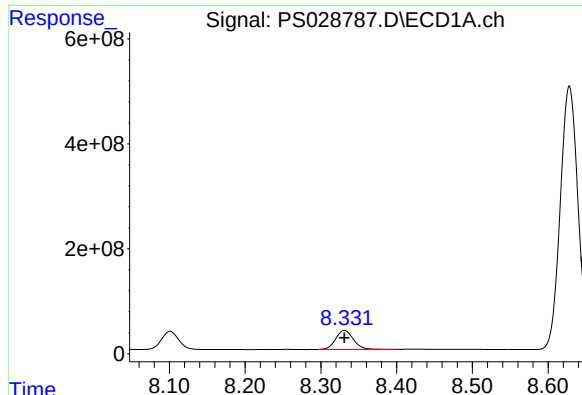
Time

Response_ Signal: PS028787.D\ECD2B.ch

#8 DICHLORPROP

R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 266475549
Conc: 193.15 ng/ml





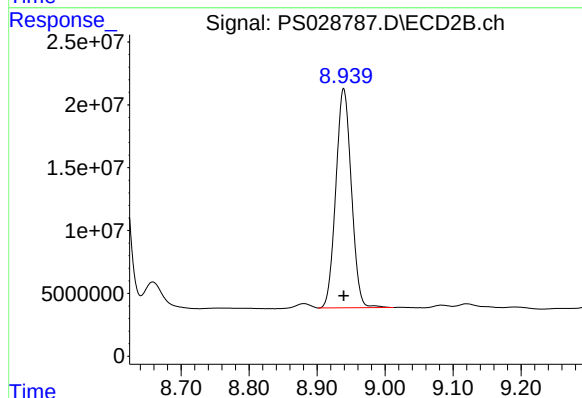
#9 2,4-D

R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 591545661
Conc: 207.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

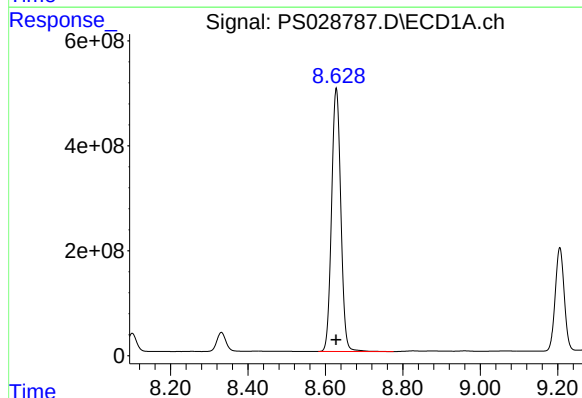
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



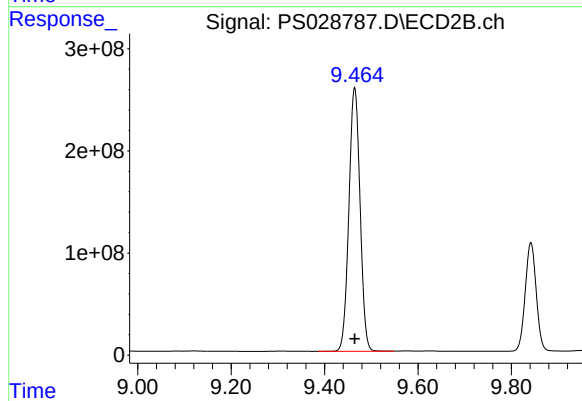
#9 2,4-D

R.T.: 8.939 min
Delta R.T.: 0.000 min
Response: 276921663
Conc: 191.89 ng/ml



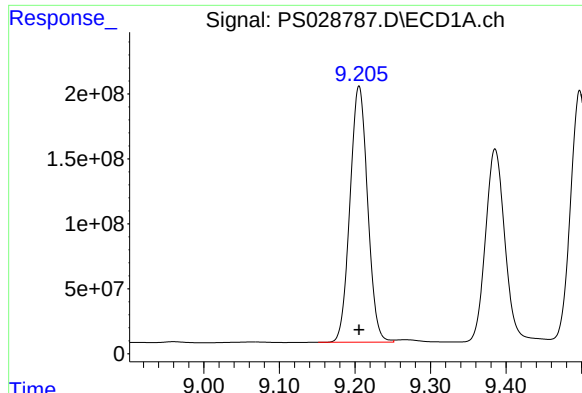
#10 Pentachlorophenol

R.T.: 8.628 min
Delta R.T.: 0.000 min
Response: 8263150461
Conc: 211.51 ng/ml



#10 Pentachlorophenol

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 4285983917
Conc: 196.62 ng/ml



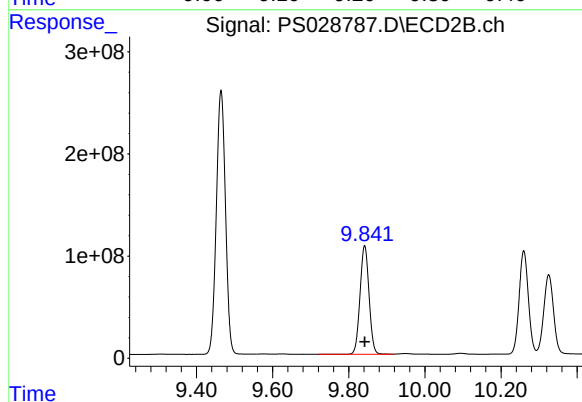
#11 2,4,5-TP (SILVEX)

R.T.: 9.205 min
Delta R.T.: 0.000 min
Response: 3194421416
Conc: 203.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

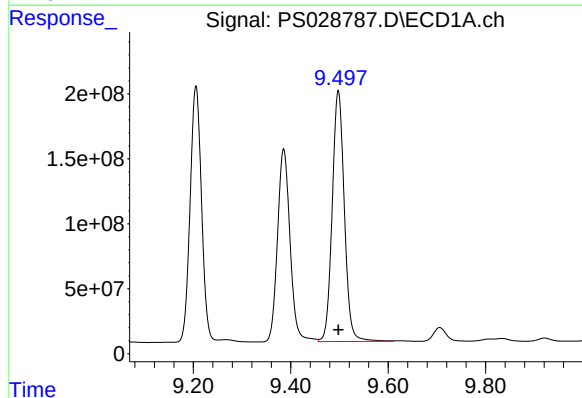
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



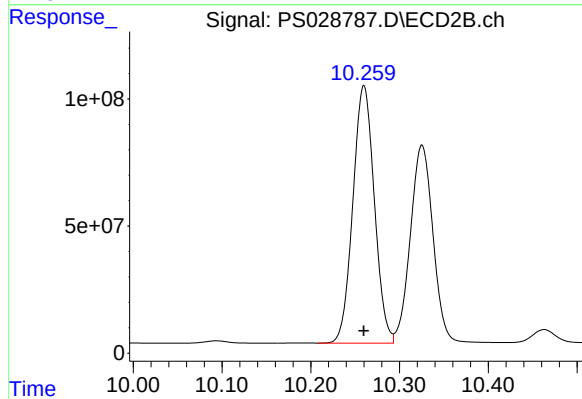
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 1738011876
Conc: 193.47 ng/ml



#12 2,4,5-T

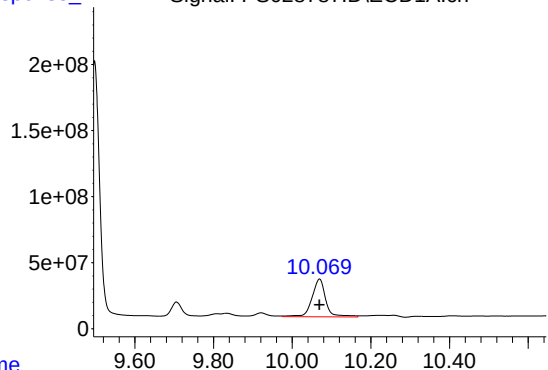
R.T.: 9.498 min
Delta R.T.: 0.000 min
Response: 3340298408
Conc: 205.31 ng/ml



#12 2,4,5-T

R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 1703520011
Conc: 195.60 ng/ml

Response_ Signal: PS028787.D\ECD1A.ch



#13 2,4-DB

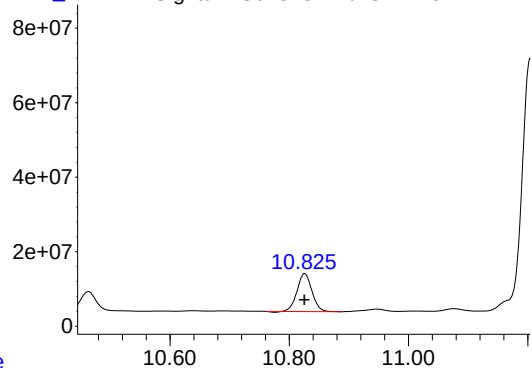
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 695408240
Conc: 222.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

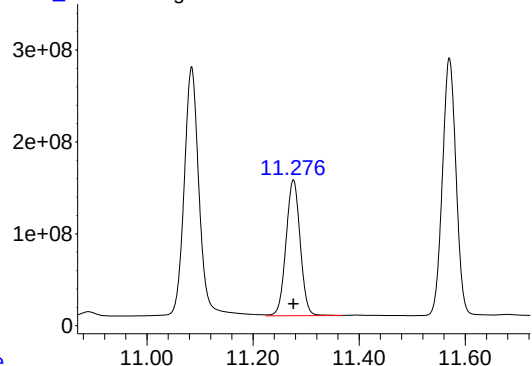
Time Response_ Signal: PS028787.D\ECD2B.ch



#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 175083291
Conc: 180.29 ng/ml

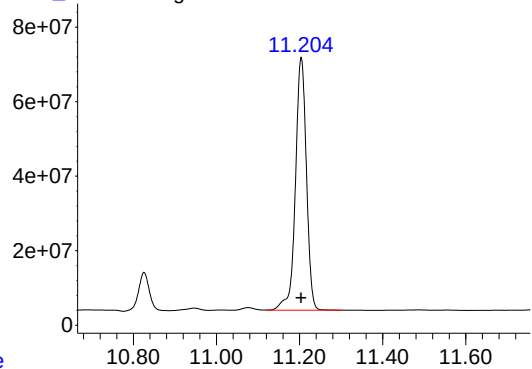
Time Response_ Signal: PS028787.D\ECD1A.ch



#14 DINOSEB

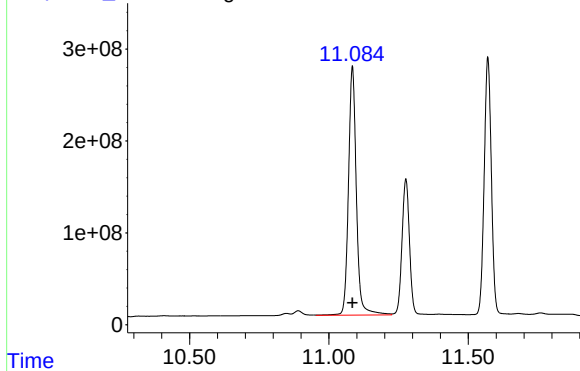
R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml

Time Response_ Signal: PS028787.D\ECD2B.ch



#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1244531304
Conc: 202.06 ng/ml

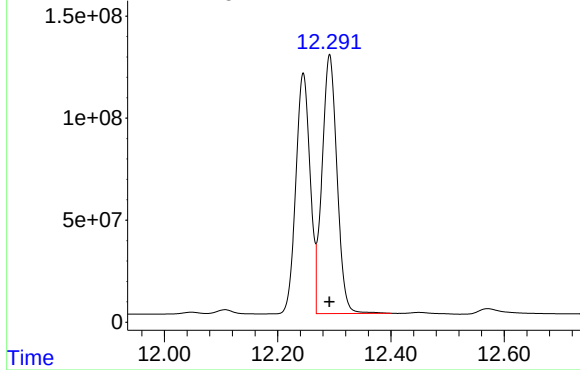


R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 5334309678
Conc: 198.95 ng/ml

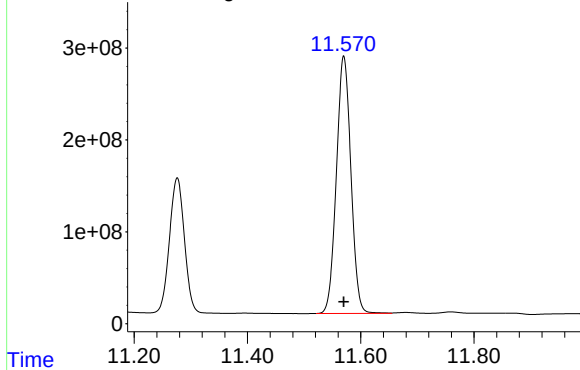
Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

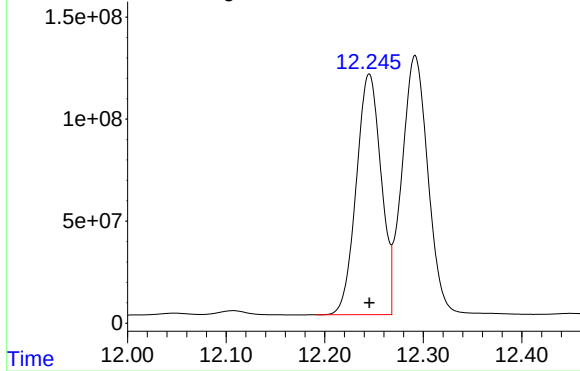
Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 2328698069
Conc: 181.38 ng/ml



R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 4983398928
Conc: 207.20 ng/ml



R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 2064979082
Conc: 192.19 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028788.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 11:47
 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: Dec 23 13:41:31 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:35:06 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	7.210	7.699	1140.2E6	563.1E6	518.796	506.979
Target Compounds							
1) T	Dalapon	2.620	2.675	1267.0E6	893.4E6	447.085	455.201
2) T	3,5-DICHL...	6.385	6.660	1544.2E6	770.3E6	479.600	470.291
3) T	4-Nitroph...	7.009	7.228	669.6E6	375.2E6	456.834	458.816
5) T	DICAMBA	7.396	7.898	4672.9E6	2557.2E6	477.606	462.038
6) T	MCPD	7.577	8.000	285.1E6	152.1E6	44.195	45.964
7) T	MCPA	7.726	8.242	401.7E6	215.2E6	44.993	46.357
8) T	DICHLORPROP	8.102	8.611	1259.5E6	649.7E6	487.537	474.162
9) T	2,4-D	8.331	8.940	1361.3E6	681.4E6	490.497	474.623
10) T	Pentachlo...	8.629	9.465	19572.0E6	10612.4E6	515.580	491.111
11) T	2,4,5-TP ...	9.206	9.842	7598.2E6	4300.5E6	492.316	480.909
12) T	2,4,5-T	9.497	10.260	7903.8E6	4172.3E6	495.804	482.629
13) T	2,4-DB	10.069	10.826	1449.6E6	464.1E6	485.291	471.846
14) T	DINOSEB	11.276	11.204	6410.2E6	2875.2E6	486.980	475.713
15) T	Picloram	11.085	12.293	12828.2E6	6048.5E6	484.133	465.818
16) T	DCPA	11.571	12.245	11834.6E6	5192.5E6	502.000	483.387

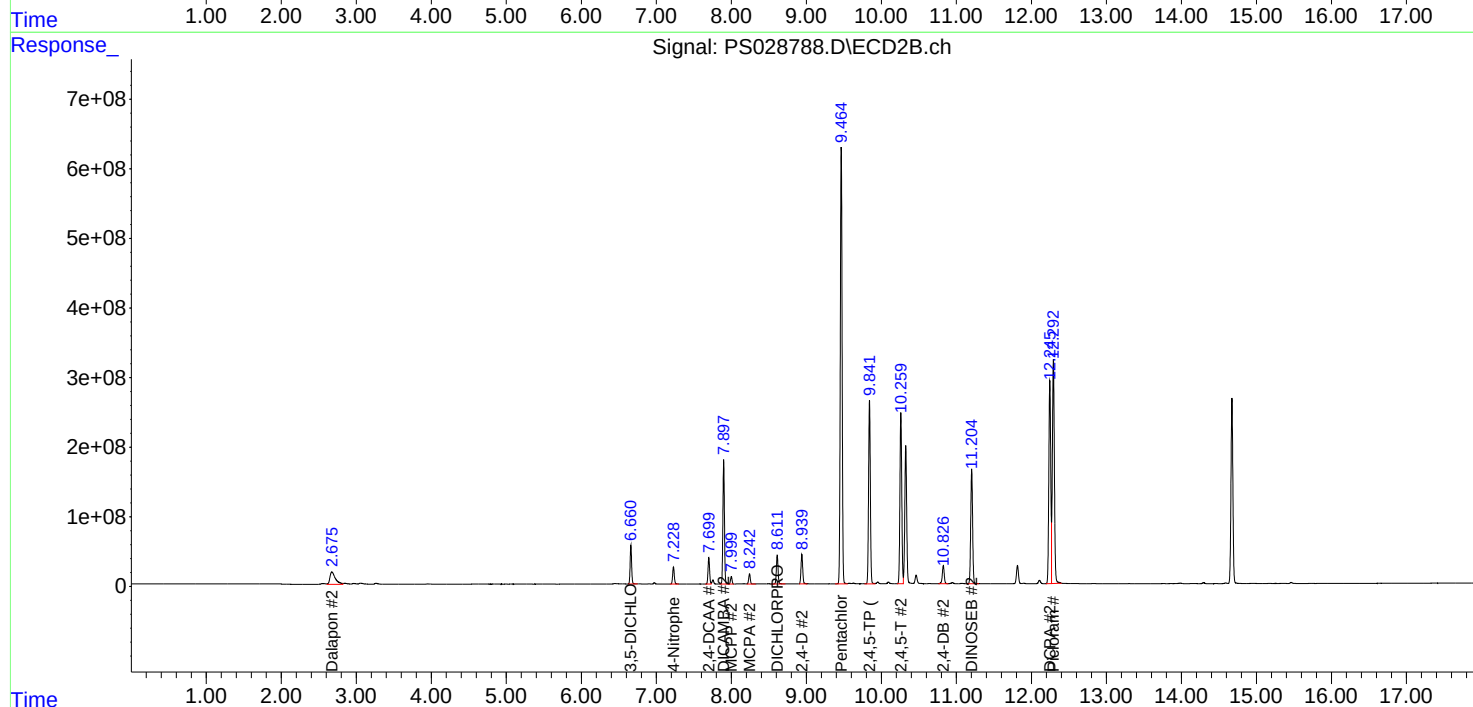
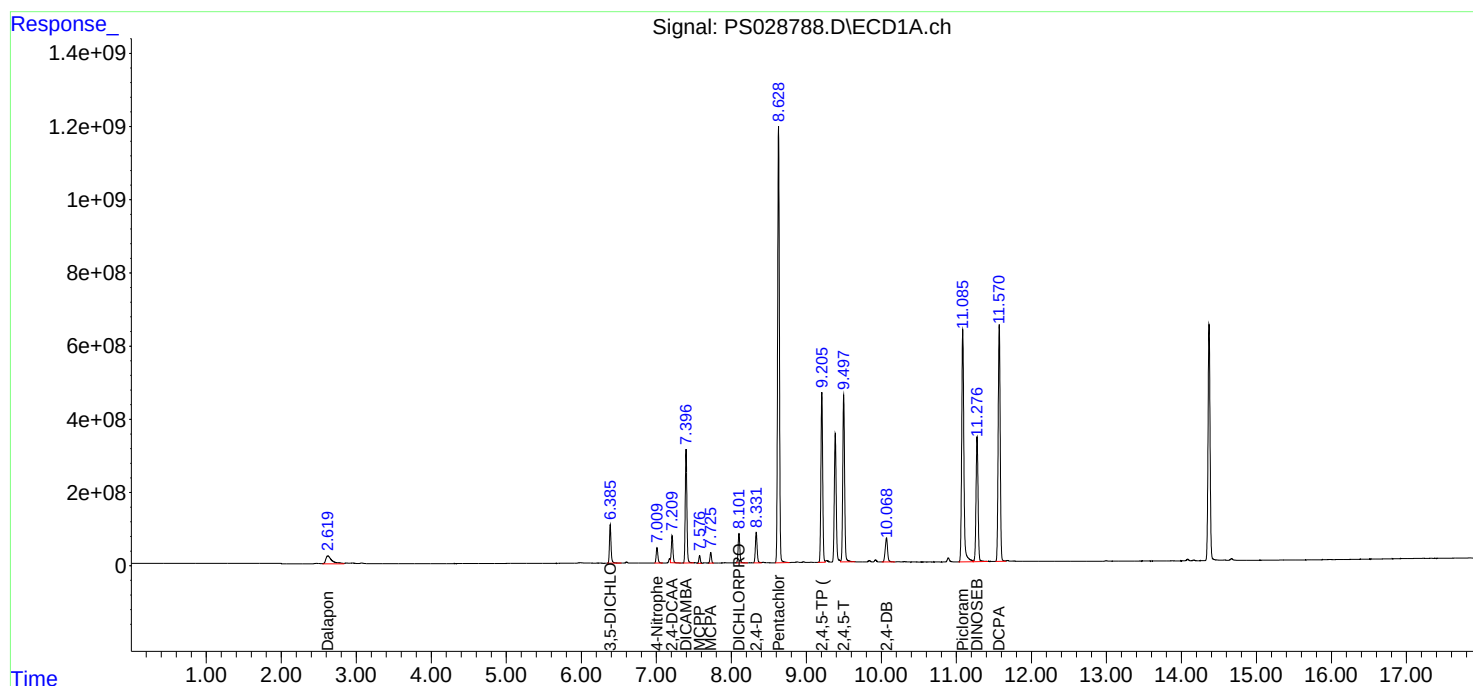
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

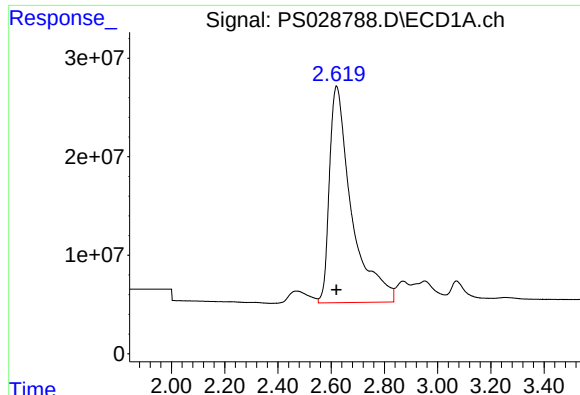
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028788.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:47
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:41:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 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

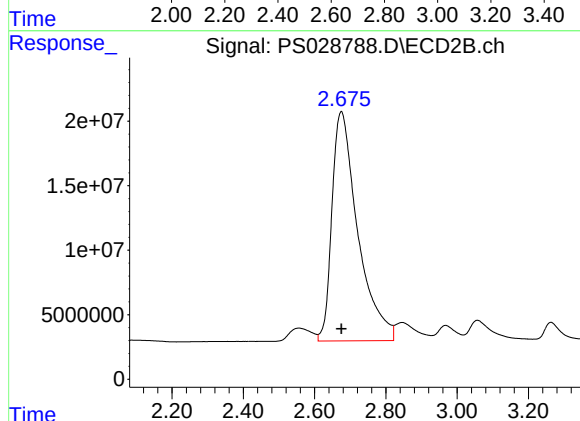




#1 Dalapon

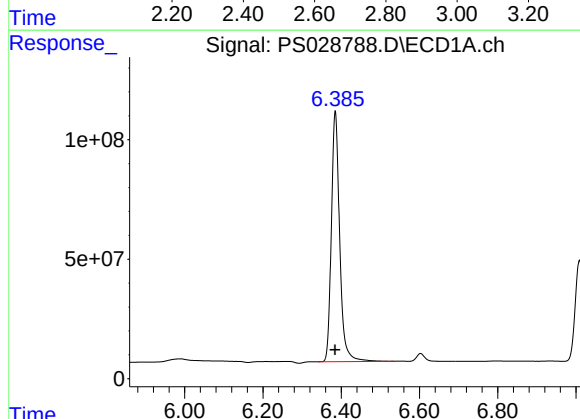
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1267014462
Conc: 447.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



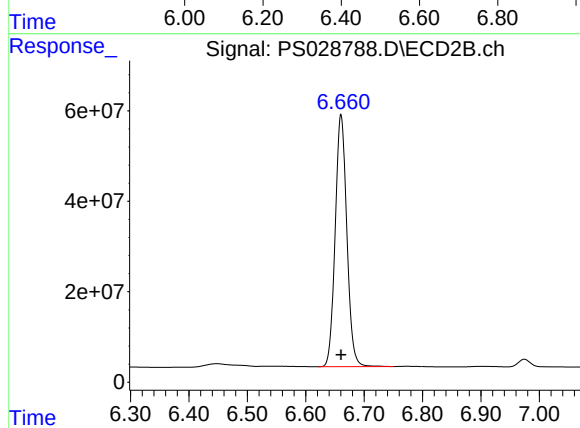
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.000 min
Response: 893354018
Conc: 455.20 ng/ml



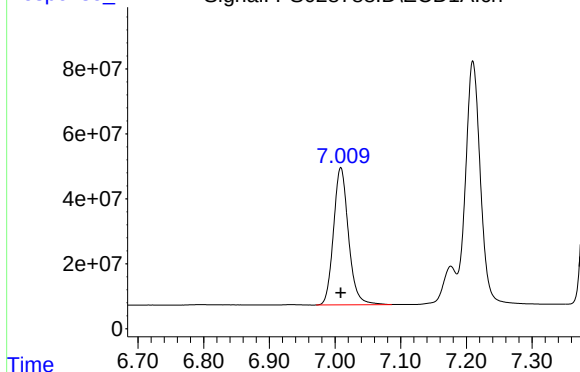
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 1544227113
Conc: 479.60 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 770264057
Conc: 470.29 ng/ml



R.T.: 7.009 min
Delta R.T.: 0.000 min
Response: 669559334
Conc: 456.83 ng/ml

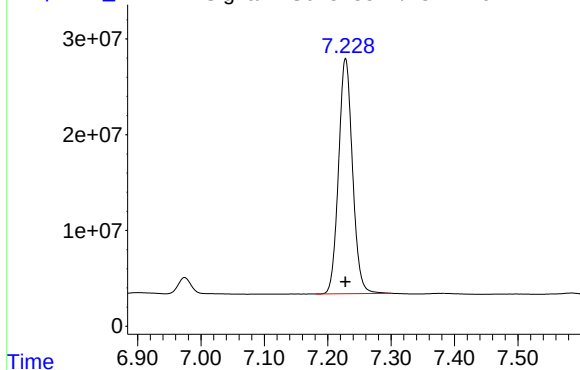
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_

Signal: PS028788.D\ECD2B.ch

#3 4-Nitrophenol



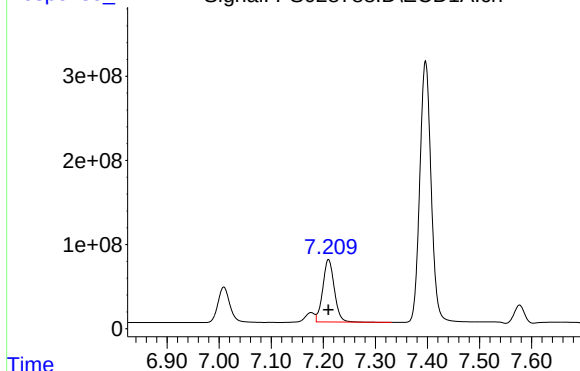
R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 375233371
Conc: 458.82 ng/ml

Time

Response_

Signal: PS028788.D\ECD1A.ch

#4 2,4-DCAA



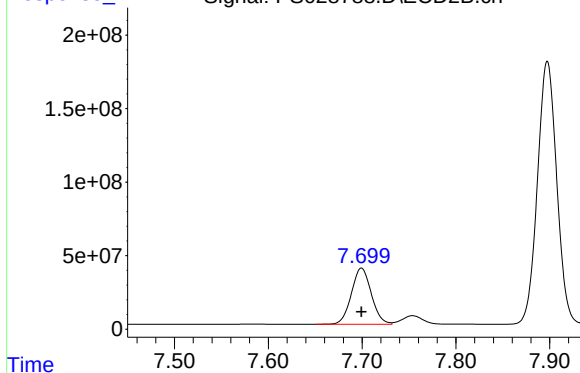
R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1140153645
Conc: 518.80 ng/ml

Time

Response_

Signal: PS028788.D\ECD2B.ch

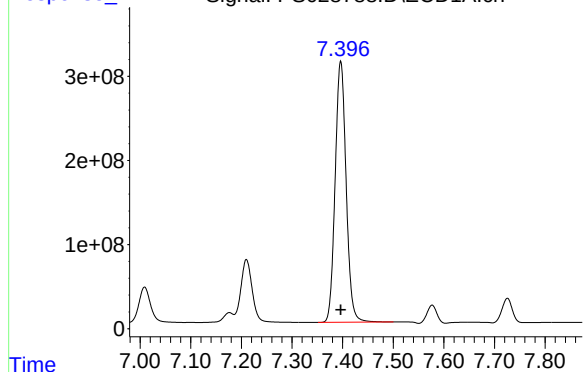
#4 2,4-DCAA



R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 563110781
Conc: 506.98 ng/ml

Time

Response_ Signal: PS028788.D\ECD1A.ch

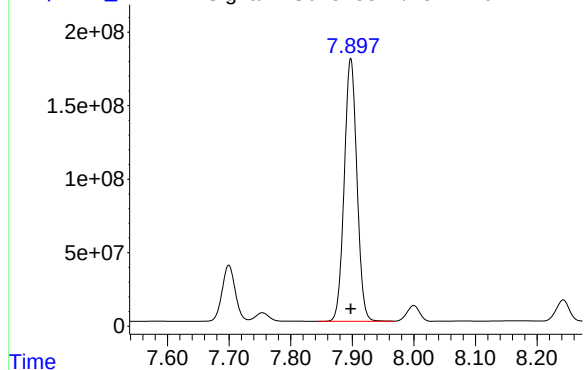


#5 DICAMBA

R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 4672891528
Conc: 477.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

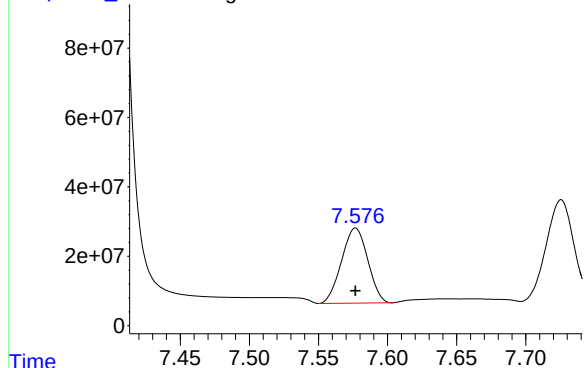
Response_ Signal: PS028788.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 2557214077
Conc: 462.04 ng/ml

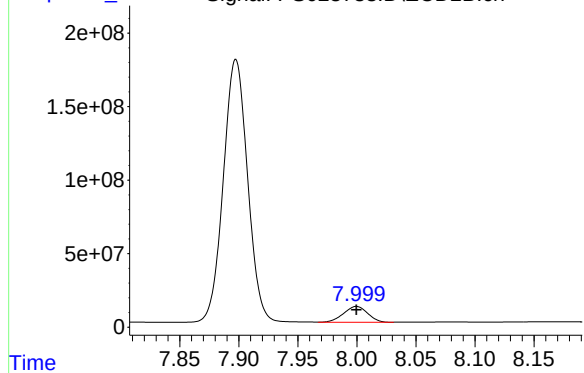
Response_ Signal: PS028788.D\ECD1A.ch



#6 MCP

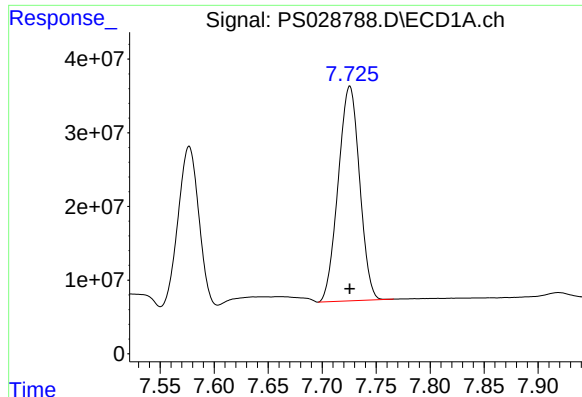
R.T.: 7.577 min
Delta R.T.: 0.000 min
Response: 285079042
Conc: 44.20 ug/ml

Response_ Signal: PS028788.D\ECD2B.ch



#6 MCP

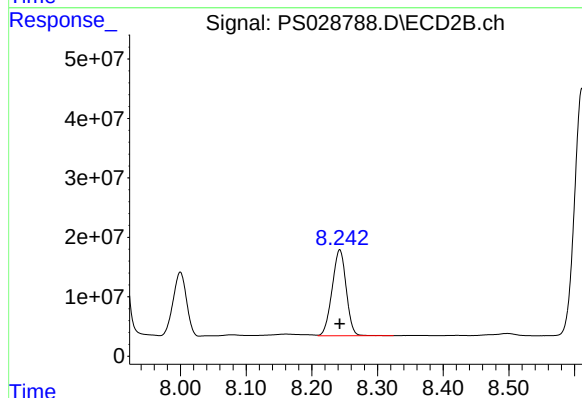
R.T.: 8.000 min
Delta R.T.: 0.000 min
Response: 152060546
Conc: 45.96 ug/ml



#7 MCPA

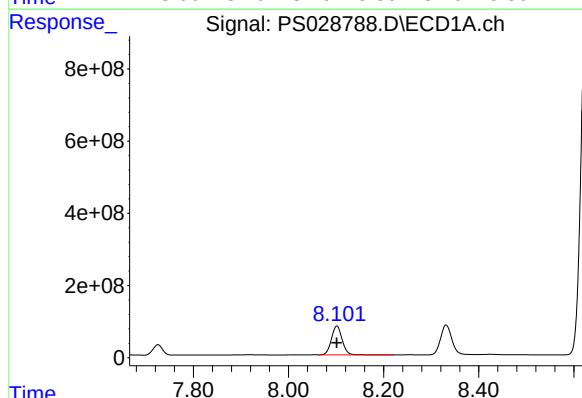
R.T.: 7.726 min
Delta R.T.: 0.000 min
Response: 401657279
Conc: 44.99 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



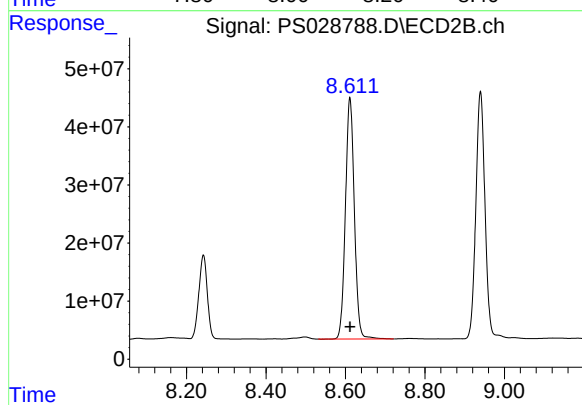
#7 MCPA

R.T.: 8.242 min
Delta R.T.: 0.000 min
Response: 215192782
Conc: 46.36 ug/ml



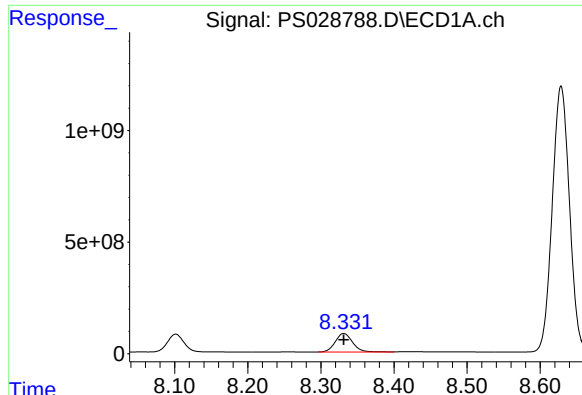
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 1259463977
Conc: 487.54 ng/ml



#8 DICHLORPROP

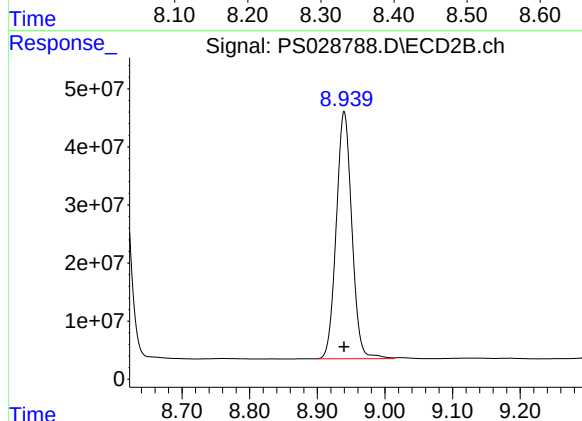
R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 649705655
Conc: 474.16 ng/ml



#9 2,4-D

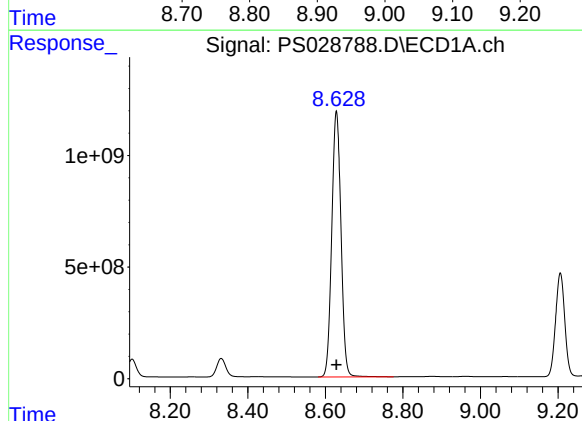
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 1361269635
Conc: 490.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



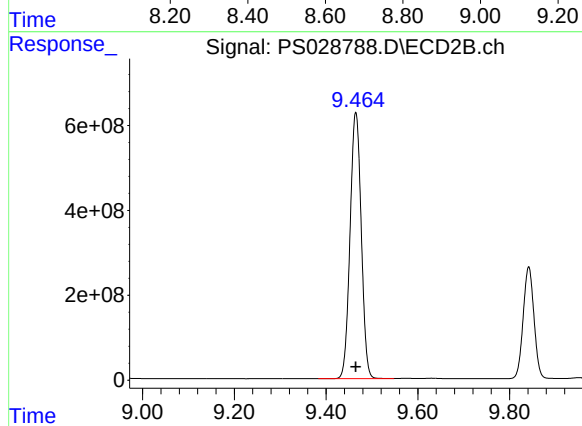
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 681409441
Conc: 474.62 ng/ml



#10 Pentachlorophenol

R.T.: 8.629 min
Delta R.T.: 0.000 min
Response: 19572039175
Conc: 515.58 ng/ml



#10 Pentachlorophenol

R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 10612380681
Conc: 491.11 ng/ml

Response_

Signal: PS028788.D\ECD1A.ch

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

R.T.: 9.206 min

Delta R.T.: 0.000 min

Response: 7598153113

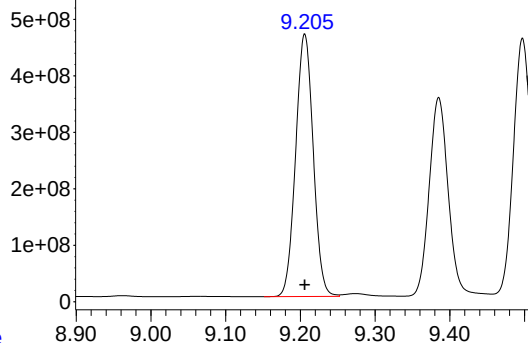
Conc: 492.32 ng/ml

Instrument :

ECD_S

ClientSampleId :

HSTDICC500



Time

Response_

Signal: PS028788.D\ECD2B.ch

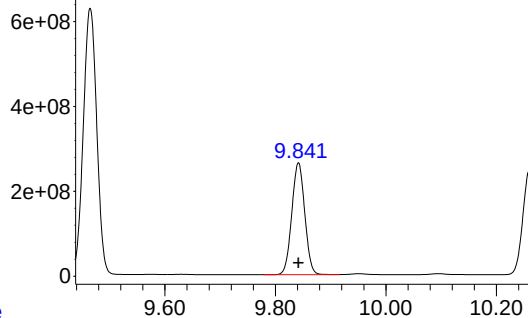
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min

Delta R.T.: 0.000 min

Response: 4300547739

Conc: 480.91 ng/ml



Time

Response_

Signal: PS028788.D\ECD1A.ch

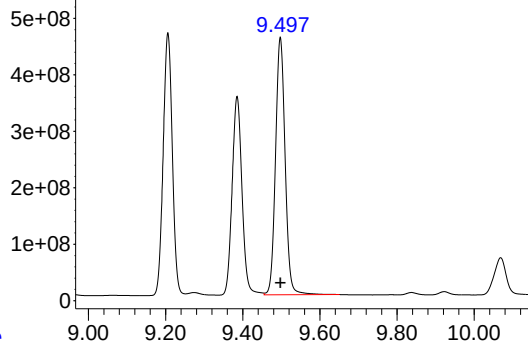
#12 2,4,5-T

R.T.: 9.497 min

Delta R.T.: 0.000 min

Response: 7903783723

Conc: 495.80 ng/ml



Time

Response_

Signal: PS028788.D\ECD2B.ch

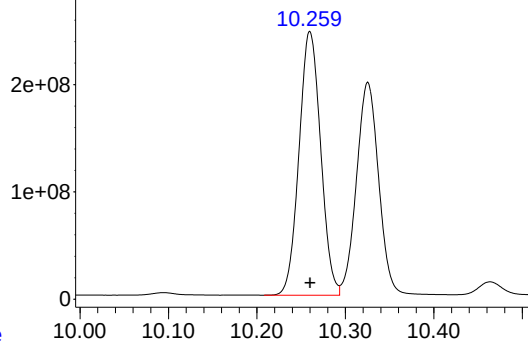
#12 2,4,5-T

R.T.: 10.260 min

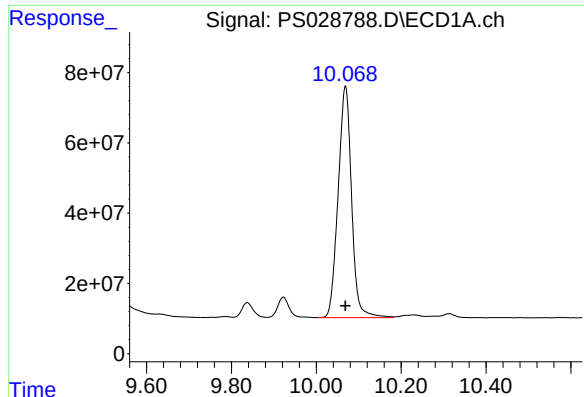
Delta R.T.: 0.000 min

Response: 4172330240

Conc: 482.63 ng/ml



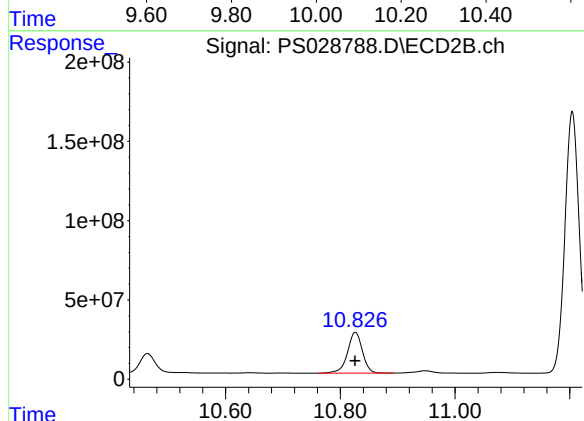
Time



#13 2,4-DB

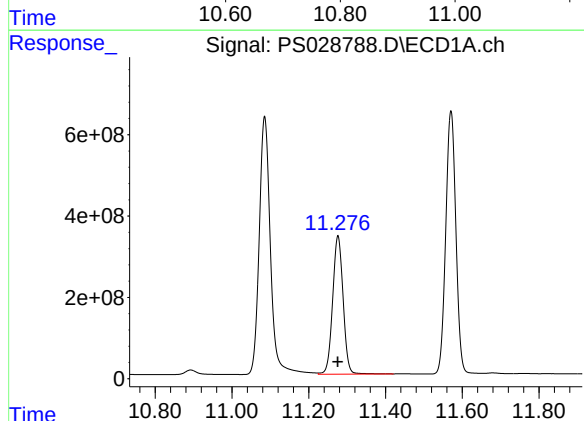
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 1449558622
Conc: 485.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



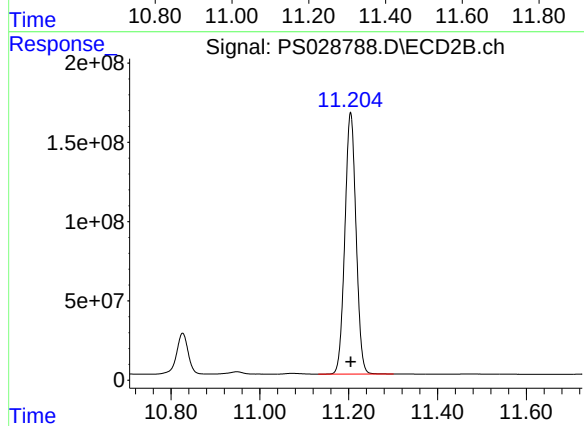
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 464060495
Conc: 471.85 ng/ml



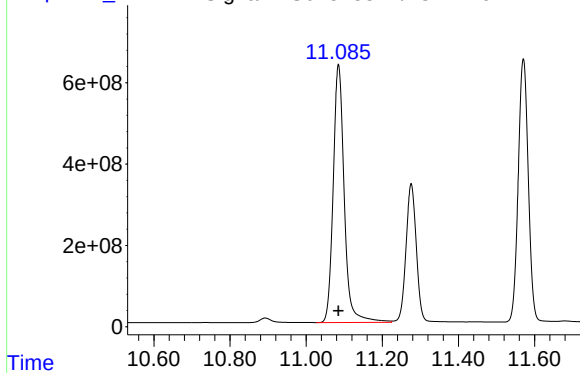
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 6410222068
Conc: 486.98 ng/ml



#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 2875195093
Conc: 475.71 ng/ml



R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 12828150222
Conc: 484.13 ng/ml

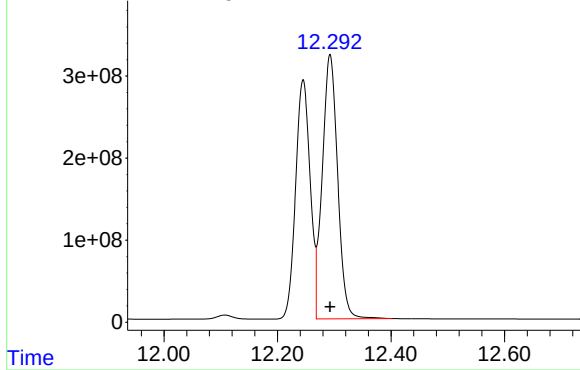
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_

Signal: PS028788.D\ECD2B.ch

#15 Picloram



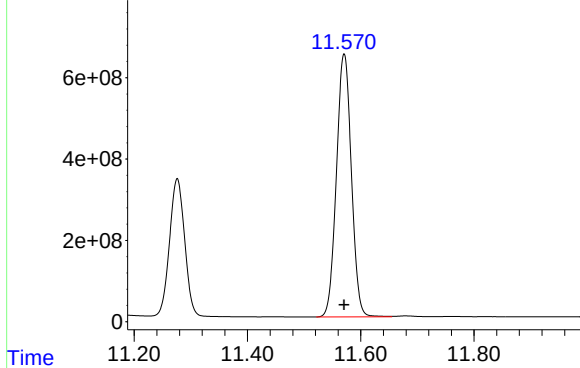
R.T.: 12.293 min
Delta R.T.: 0.000 min
Response: 6048506679
Conc: 465.82 ng/ml

Time

Response_

Signal: PS028788.D\ECD1A.ch

#16 DCPA



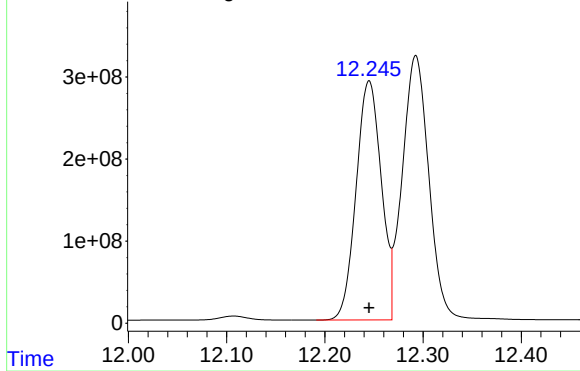
R.T.: 11.571 min
Delta R.T.: 0.000 min
Response: 11834645347
Conc: 502.00 ng/ml

Time

Response_

Signal: PS028788.D\ECD2B.ch

#16 DCPA



R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 5192521894
Conc: 483.39 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028789.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 12:11
 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: Dec 23 13:35:57 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:35:06 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	7.210	7.700	1691.0E6	842.4E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.620	2.674	1942.8E6	1349.3E6	682.500	682.500
2) T	3,5-DICHL...	6.385	6.660	2285.6E6	1155.6E6	697.500	697.500
3) T	4-Nitroph...	7.009	7.228	1007.9E6	559.5E6	682.500	682.500
5) T	DICAMBA	7.397	7.898	7011.9E6	3936.4E6	705.000	705.000
6) T	MCPD	7.579	8.002	455.0E6	235.2E6	70.500	70.500
7) T	MCPA	7.729	8.245	625.6E6	327.4E6	69.750	69.750
8) T	DICHLORPROP	8.102	8.612	1852.8E6	978.9E6	705.000	705.000
9) T	2,4-D	8.332	8.940	2003.9E6	1024.2E6	705.000	705.000
10) T	Pentachlo...	8.629	9.465	28730.9E6	15836.1E6	712.500	712.500
11) T	2,4,5-TP ...	9.206	9.842	11258.5E6	6490.8E6	712.500	712.500
12) T	2,4,5-T	9.497	10.260	11647.7E6	6266.0E6	712.500	712.500
13) T	2,4-DB	10.069	10.826	2161.1E6	705.6E6	712.500	712.500
14) T	DINOSEB	11.276	11.204	9500.8E6	4334.9E6	705.000	705.000
15) T	Picloram	11.085	12.292	19296.4E6	9378.2E6	712.500	712.500
16) T	DCPA	11.571	12.245	17447.7E6	7888.2E6	720.000	720.000

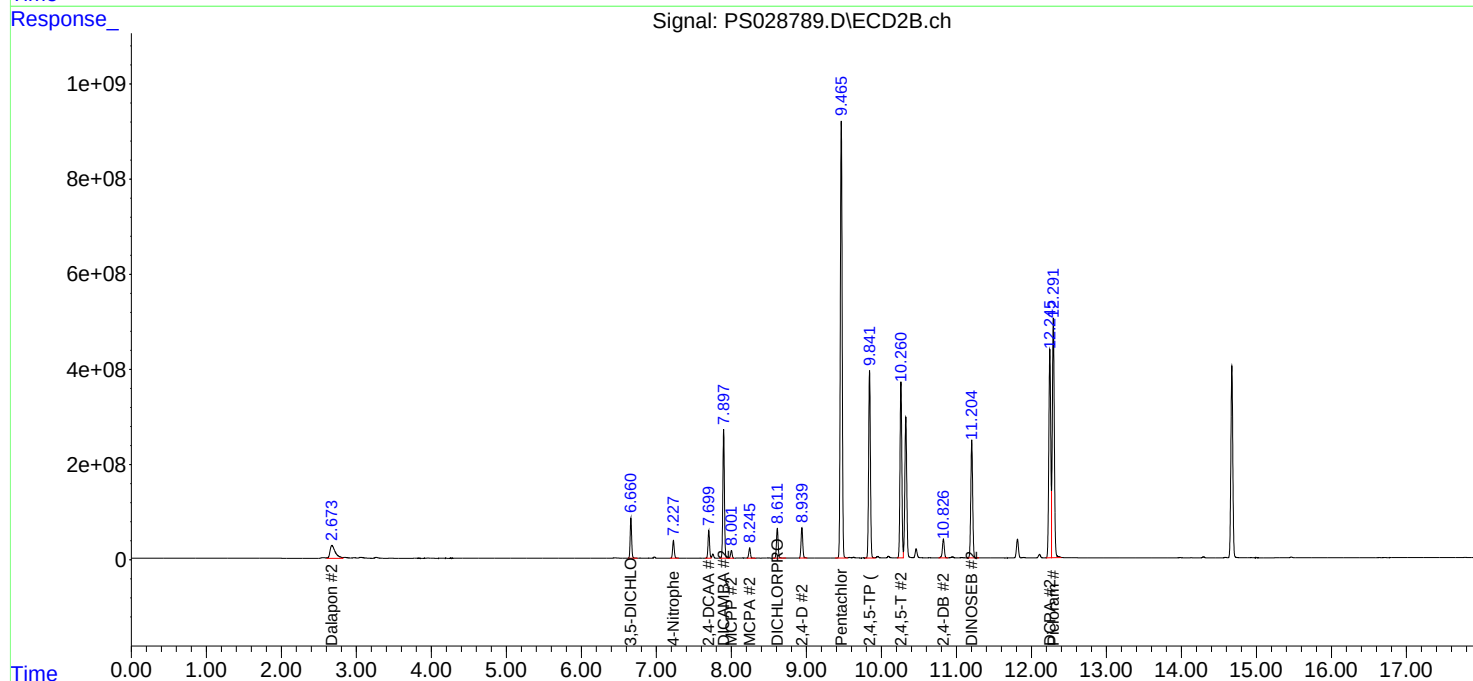
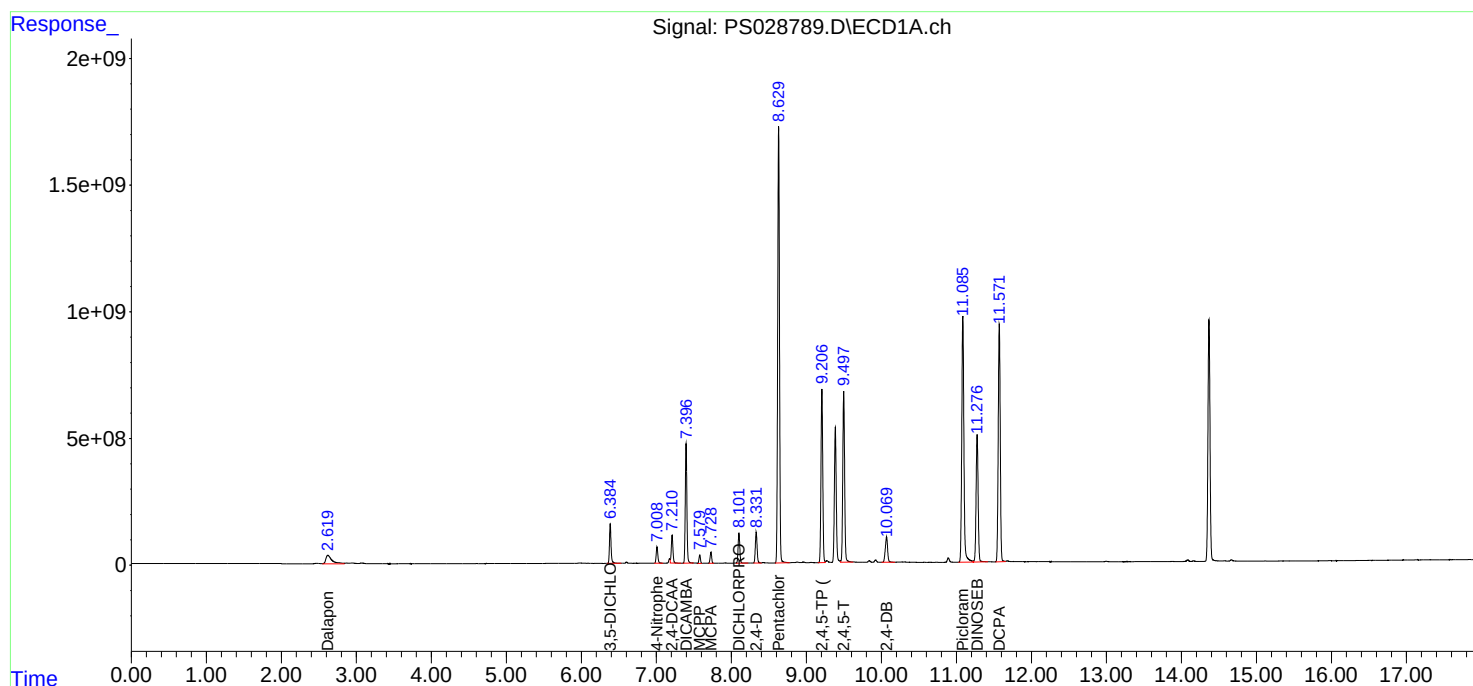
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028789.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:11
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

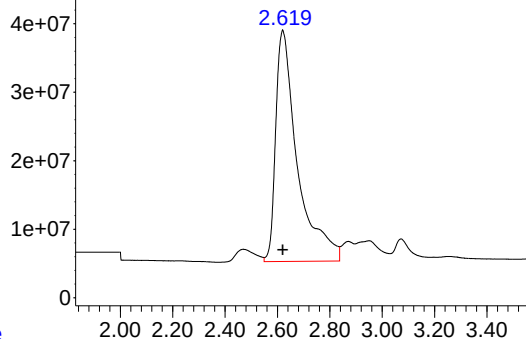
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:35:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 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: PS028789.D\ECD1A.ch

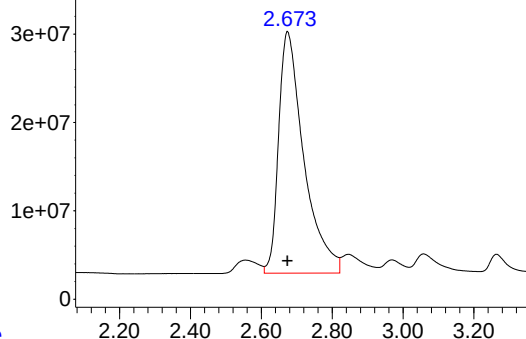


#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1942818105
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

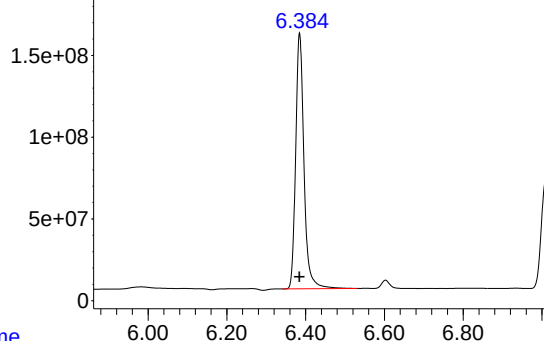
Time Response_ Signal: PS028789.D\ECD2B.ch



#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.000 min
Response: 1349337704
Conc: 682.50 ng/ml

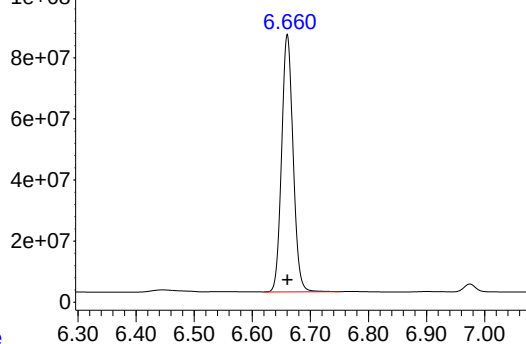
Time Response_ Signal: PS028789.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 2285586505
Conc: 697.50 ng/ml

Time Response_ Signal: PS028789.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

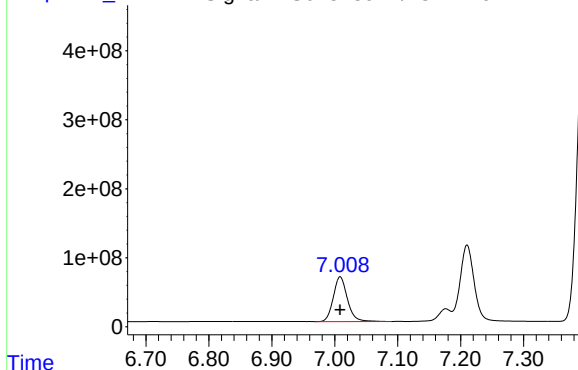
R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 1155579085
Conc: 697.50 ng/ml

Response_

Signal: PS028789.D\ECD1A.ch

#3 4-Nitrophenol

ICAL Form



R.T.: 7.009 min
Delta R.T.: 0.000 min
Response: 1007897476
Conc: 682.50 ng/ml

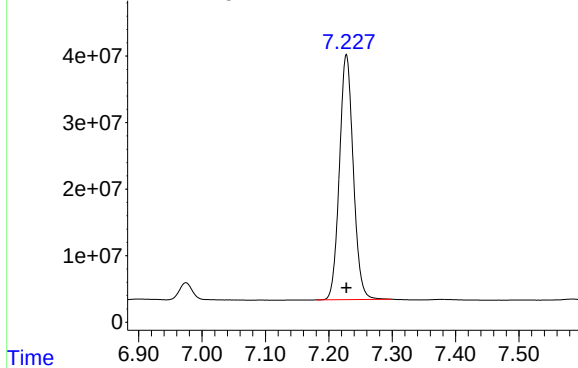
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response_

Signal: PS028789.D\ECD2B.ch

#3 4-Nitrophenol



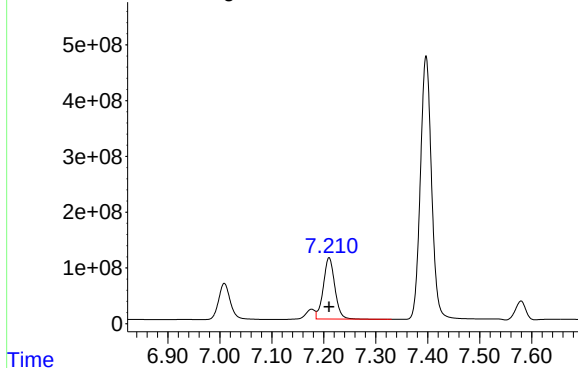
R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 559532310
Conc: 682.50 ng/ml

Time

Response_

Signal: PS028789.D\ECD1A.ch

#4 2,4-DCAA



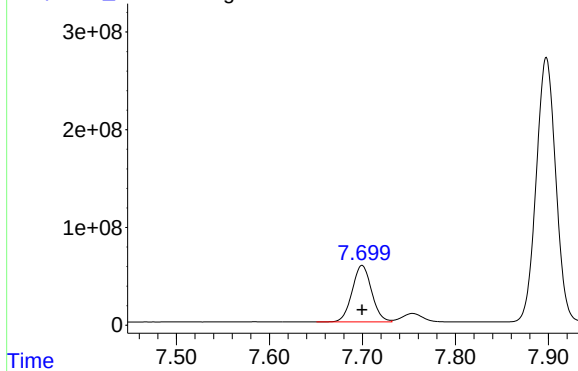
R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1691026527
Conc: 750.00 ng/ml

Time

Response_

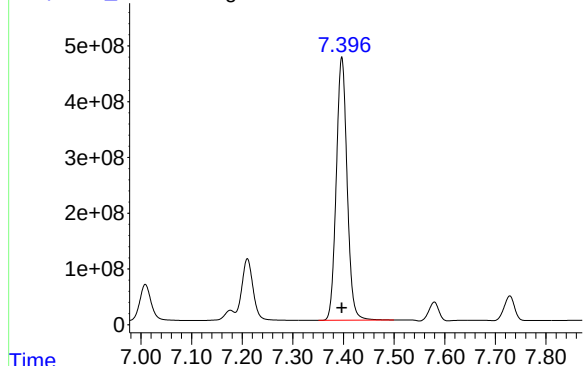
Signal: PS028789.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 842430336
Conc: 750.00 ng/ml

Response_ Signal: PS028789.D\ECD1A.ch

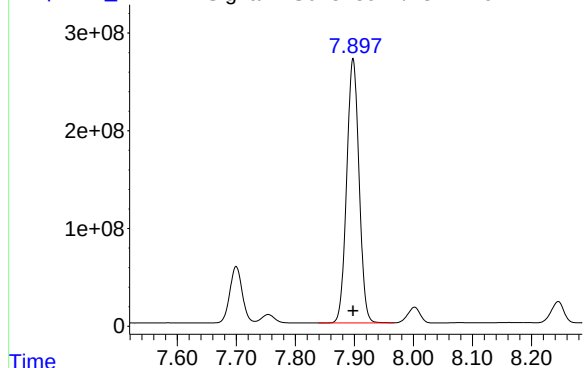


#5 DICAMBA

R.T.: 7.397 min
Delta R.T.: 0.000 min
Response: 7011922706
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

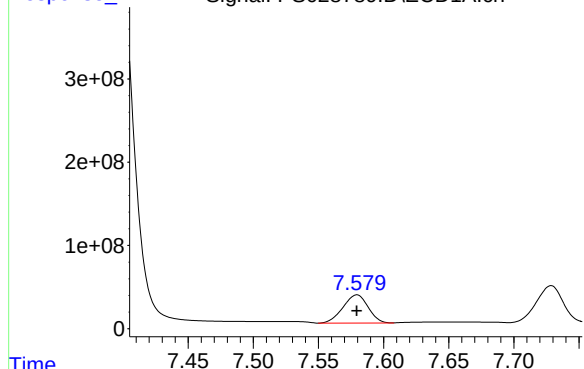
Response_ Signal: PS028789.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 3936433556
Conc: 705.00 ng/ml

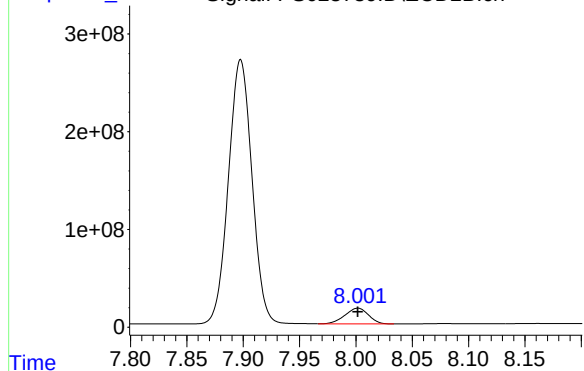
Response_ Signal: PS028789.D\ECD1A.ch



#6 MCP

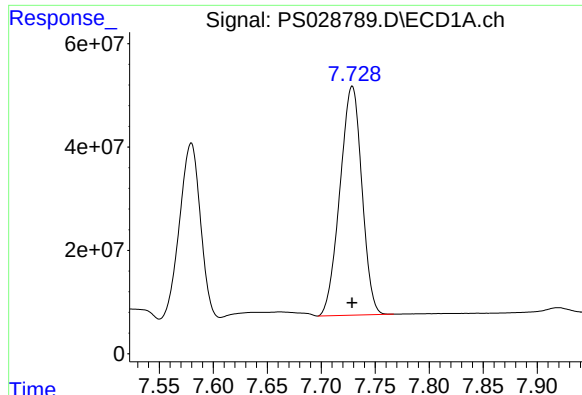
R.T.: 7.579 min
Delta R.T.: 0.000 min
Response: 454999618
Conc: 70.50 ug/ml

Response_ Signal: PS028789.D\ECD2B.ch



#6 MCP

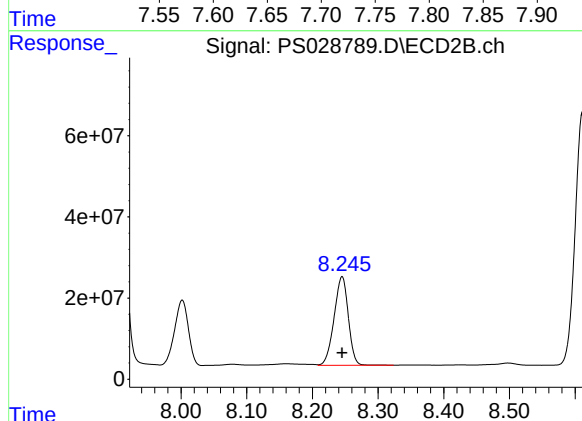
R.T.: 8.002 min
Delta R.T.: 0.000 min
Response: 235166572
Conc: 70.50 ug/ml



#7 MCPA

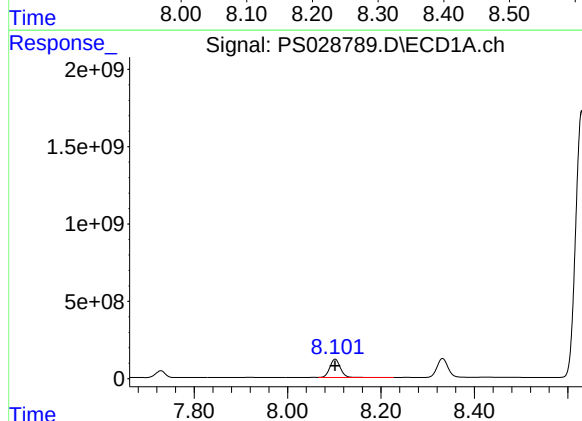
R.T.: 7.729 min
Delta R.T.: 0.000 min
Response: 625598808
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



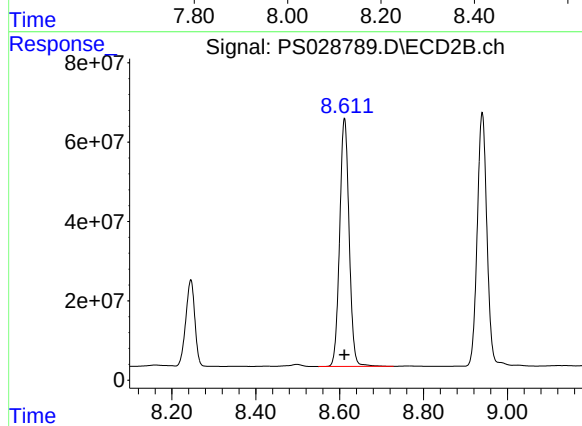
#7 MCPA

R.T.: 8.245 min
Delta R.T.: 0.000 min
Response: 327396163
Conc: 69.75 ug/ml



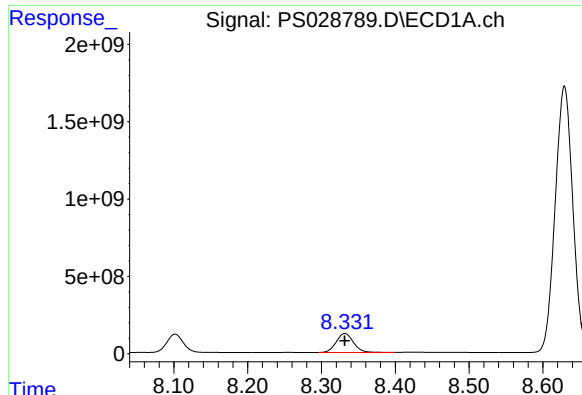
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 1852766267
Conc: 705.00 ng/ml



#8 DICHLORPROP

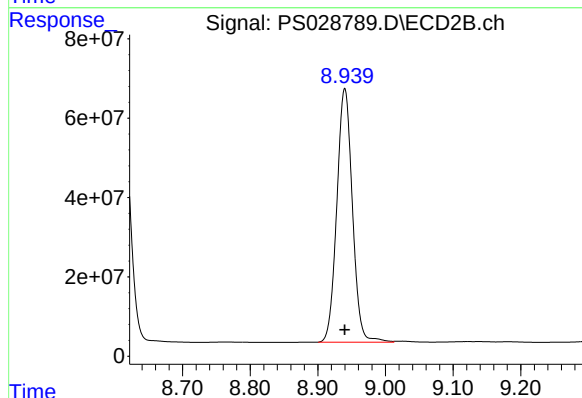
R.T.: 8.612 min
Delta R.T.: 0.000 min
Response: 978869433
Conc: 705.00 ng/ml



#9 2,4-D

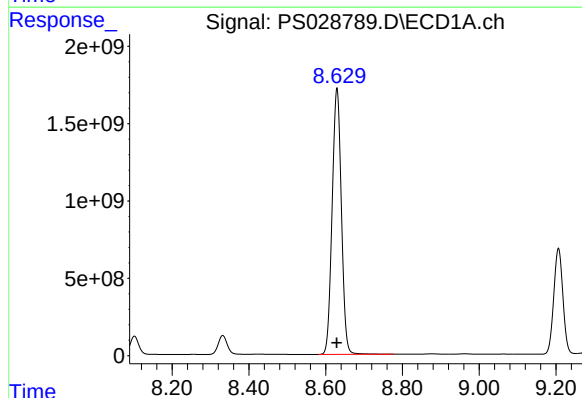
R.T.: 8.332 min
Delta R.T.: 0.000 min
Response: 2003909814
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



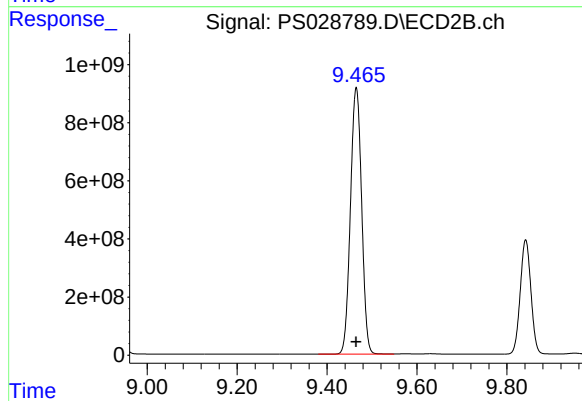
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1024218782
Conc: 705.00 ng/ml



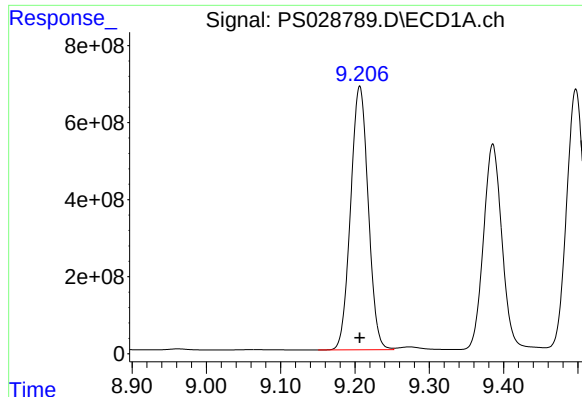
#10 Pentachlorophenol

R.T.: 8.629 min
Delta R.T.: 0.000 min
Response: 28730925166
Conc: 712.50 ng/ml



#10 Pentachlorophenol

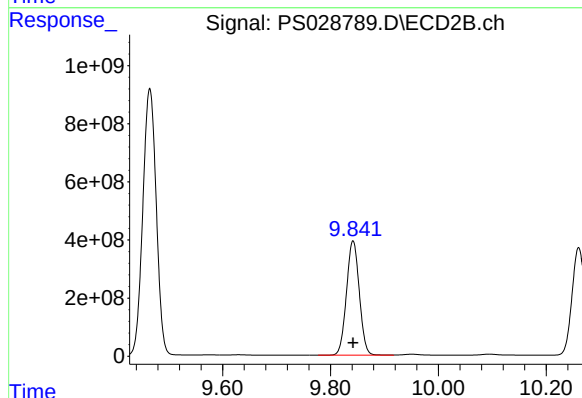
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 15836075707
Conc: 712.50 ng/ml



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

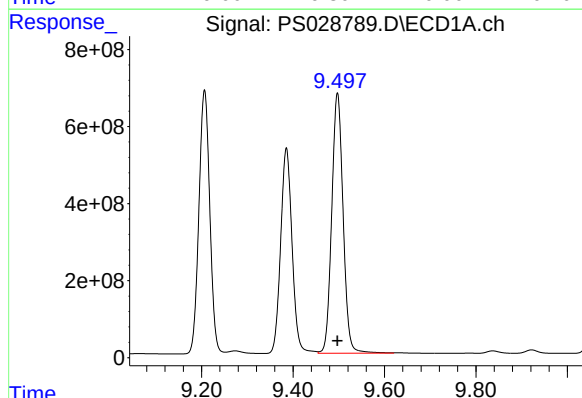
R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 11258465941
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



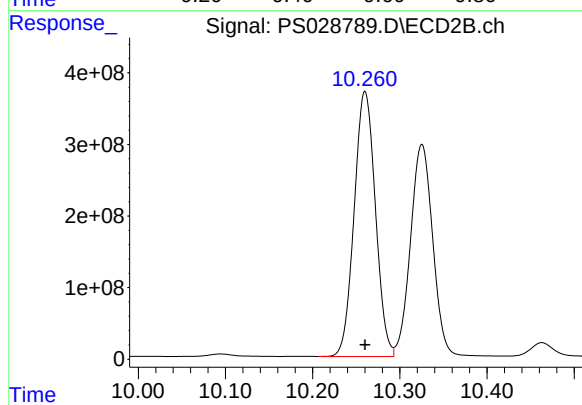
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 6490757412
Conc: 712.50 ng/ml



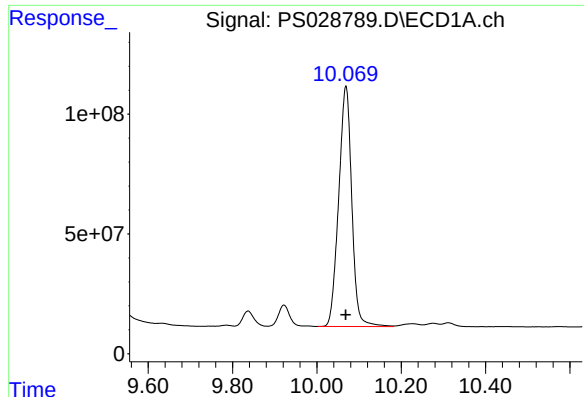
#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 11647661713
Conc: 712.50 ng/ml



#12 2,4,5-T

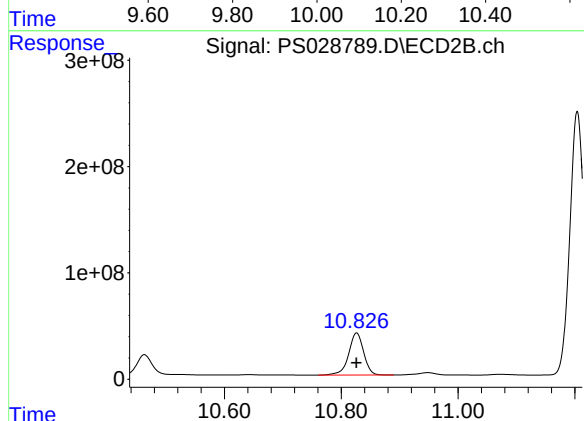
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 6266023592
Conc: 712.50 ng/ml



#13 2,4-DB

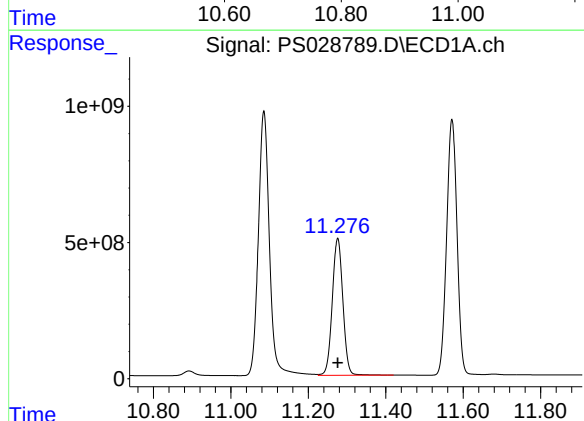
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 2161070472
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



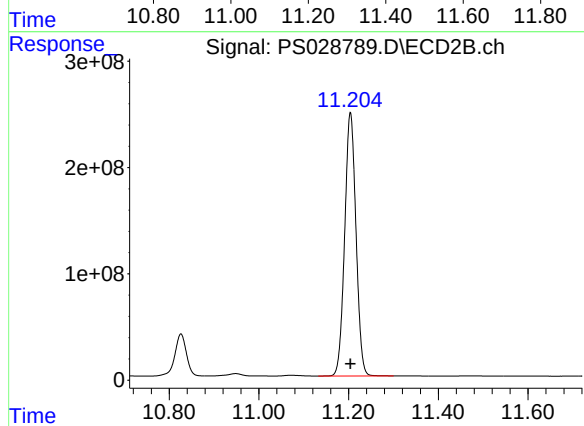
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 705569948
Conc: 712.50 ng/ml



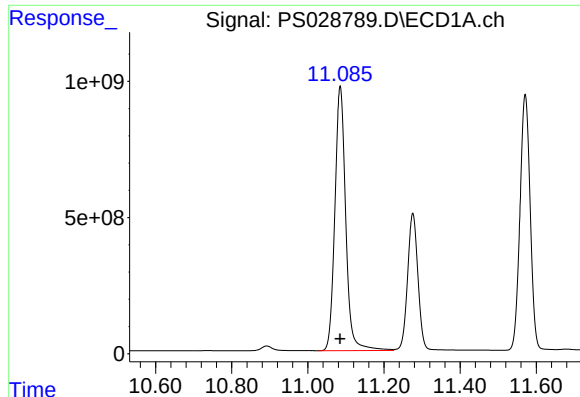
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 9500799958
Conc: 705.00 ng/ml



#14 DINOSEB

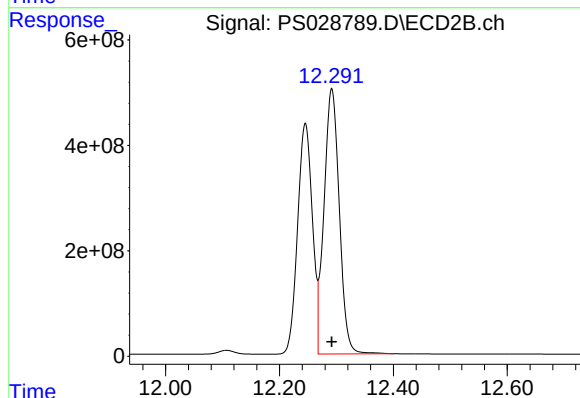
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 4334922840
Conc: 705.00 ng/ml



#15 Picloram

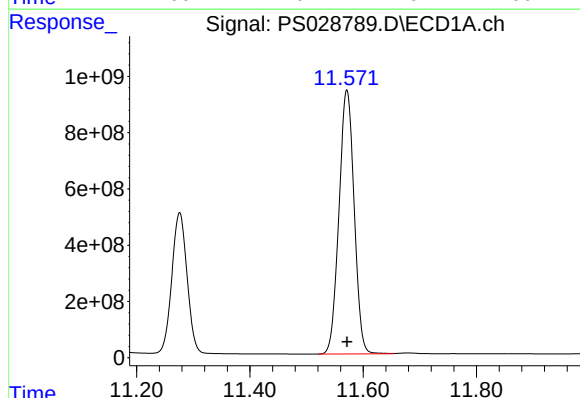
R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 19296433932
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



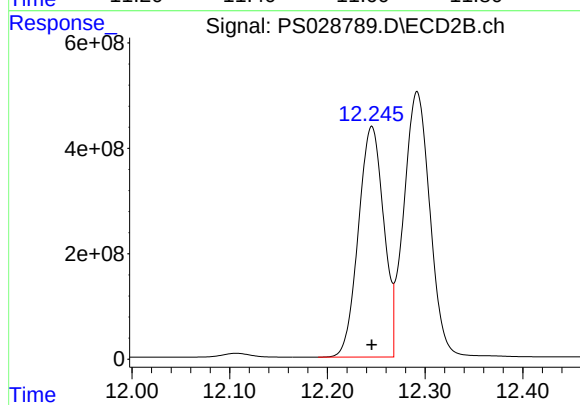
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 9378150390
Conc: 712.50 ng/ml



#16 DCPA

R.T.: 11.571 min
Delta R.T.: 0.000 min
Response: 17447708328
Conc: 720.00 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 7888172996
Conc: 720.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028790.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 12:35
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Manual Integrations
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Reviewed By : Abdul Mirza 12/26/2024
 Supervised By : Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 23 13:39:39 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:35:06 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	7.210	7.700	2149.7E6	1104.1E6	994.267m	998.684
Target Compounds							
1) T	Dalapon	2.620	2.675	2590.1E6	1784.2E6	908.696	909.276
2) T	3,5-DICHL...	6.385	6.660	2970.3E6	1521.1E6	932.245	932.254
3) T	4-Nitroph...	7.008	7.228	1335.0E6	747.4E6	912.099	916.441
5) T	DICAMBA	7.397	7.898	9168.9E6	5233.4E6	942.217	940.257
6) T	MCPD	7.581	8.004	613.6E6	312.6E6	93.266	93.797
7) T	MCPA	7.731	8.247	836.7E6	431.0E6	92.726	92.759
8) T	DICHLORPROP	8.102	8.611	2407.7E6	1281.5E6	943.767	937.998
9) T	2,4-D	8.331	8.940	2561.8E6	1344.1E6	936.700	939.288
10) T	Pentachlo...	8.629	9.465	36738.0E6	20389.3E6	996.145	954.348
11) T	2,4,5-TP ...	9.206	9.842	14533.1E6	8474.0E6	953.244	951.557
12) T	2,4,5-T	9.497	10.260	14990.1E6	8190.7E6	954.258	952.545
13) T	2,4-DB	10.069	10.826	2816.6E6	933.2E6	949.832	946.746
14) T	DINOSEB	11.276	11.204	12260.6E6	5663.4E6	942.779	940.845
15) T	Picloram	11.085	12.292	25059.4E6	12444.4E6	951.841	952.255
16) T	DCPA	11.570	12.245	22401.4E6	10328.8E6	964.963	963.806

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028790.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:35
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

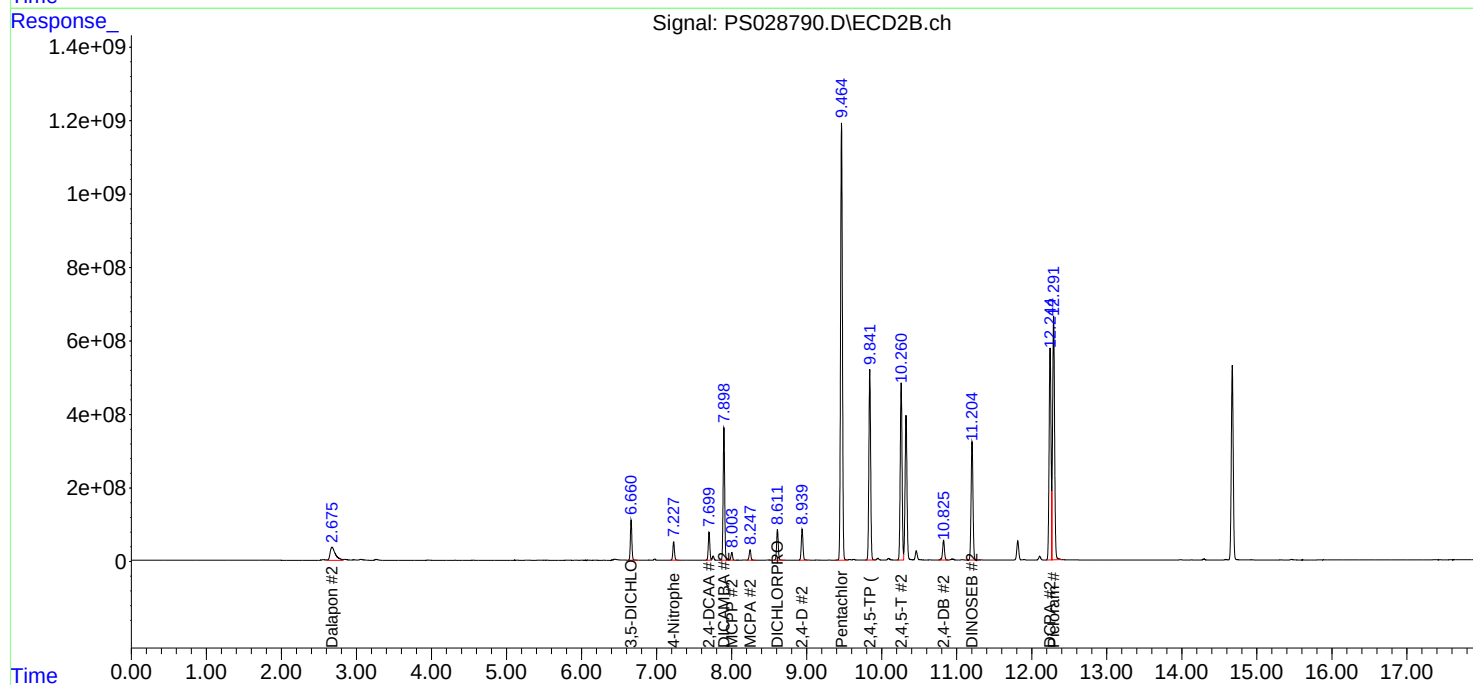
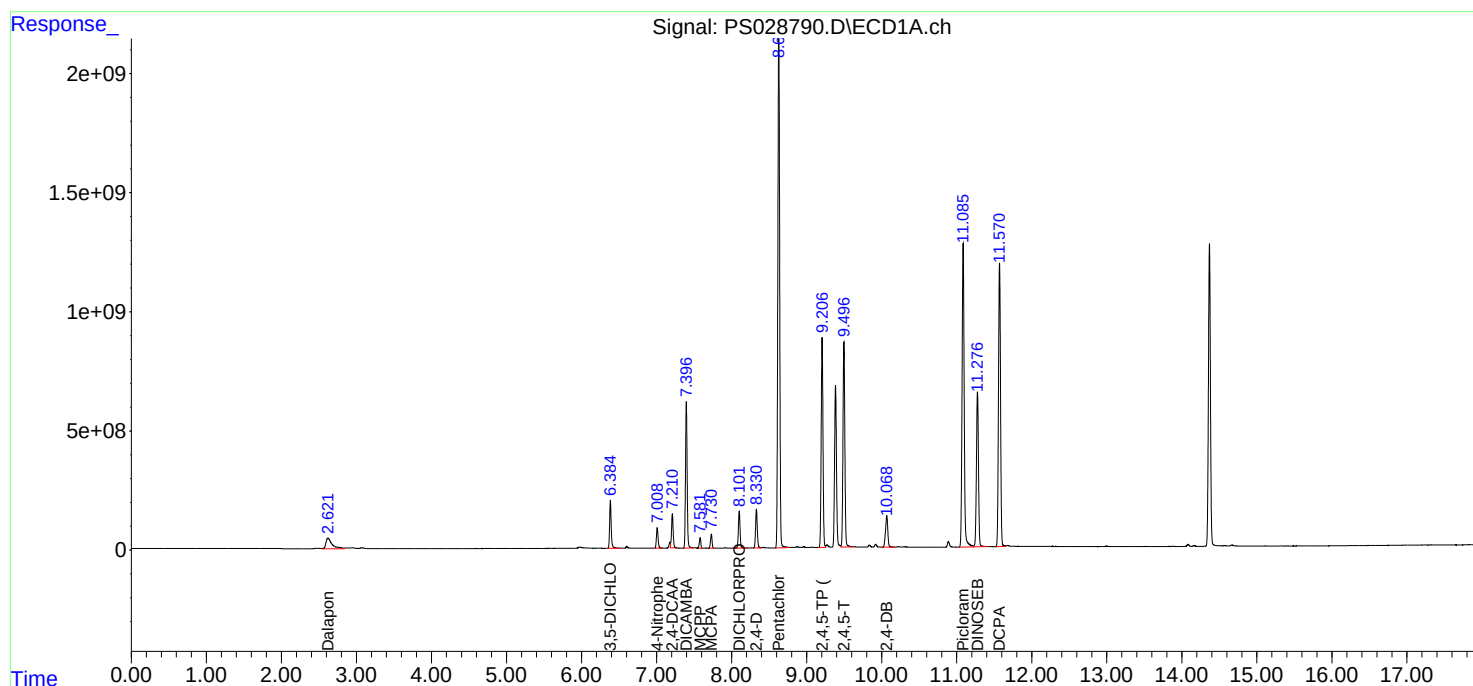
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

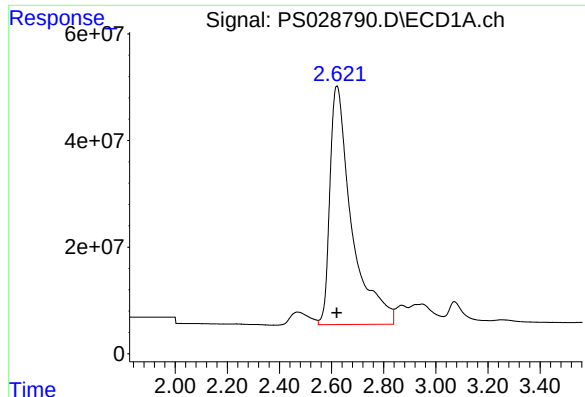
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 12/26/2024
Supervised By : Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:39:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 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





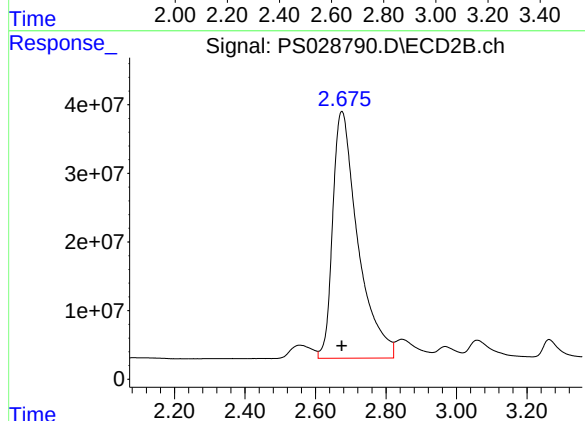
#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 2590128401
Conc: 908.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

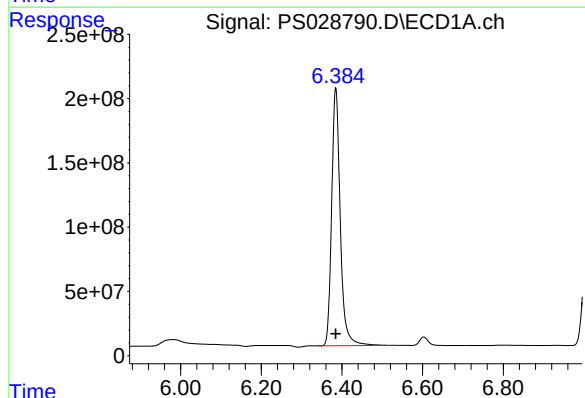
Manual Integrations
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Supervised By :Ankita Jodhani 12/27/2024



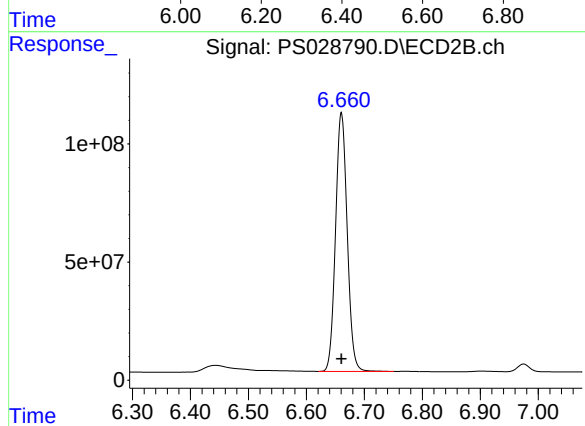
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.000 min
Response: 1784237725
Conc: 909.28 ng/ml



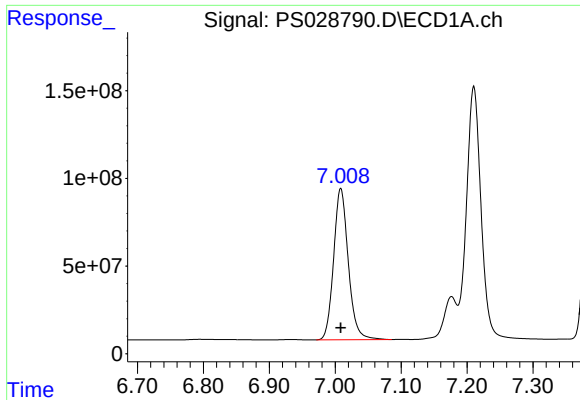
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 2970251089
Conc: 932.25 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 1521097294
Conc: 932.25 ng/ml



#3 4-Nitrophenol

R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 1335023608
Conc: 912.10 ng/ml

Instrument :

ECD_S

ClientSampleId :

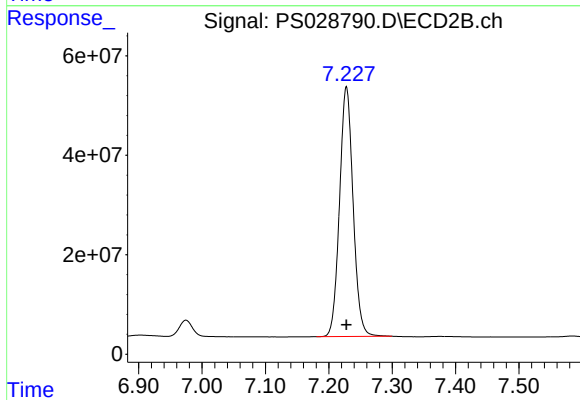
HSTDICC1000

Manual Integrations

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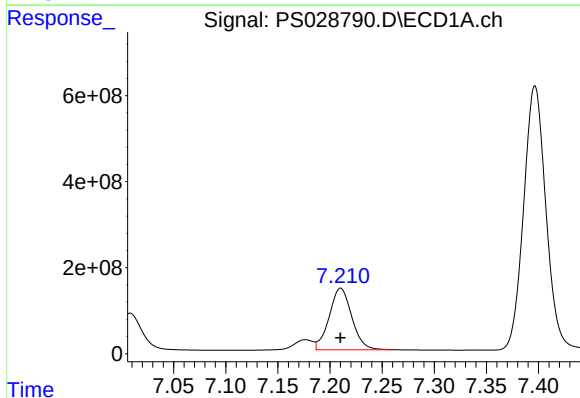
Reviewed By :Abdul Mirza 12/26/2024

Supervised By :Ankita Jodhani 12/27/2024



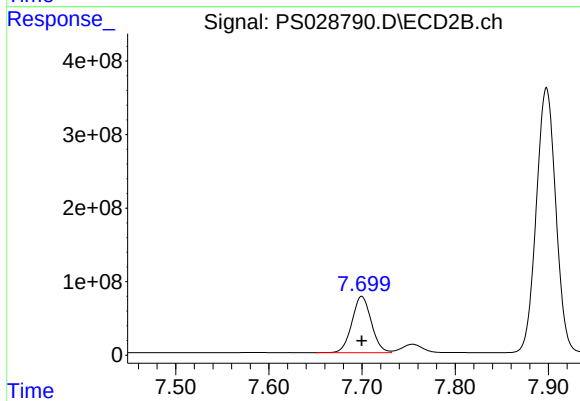
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 747396809
Conc: 916.44 ng/ml



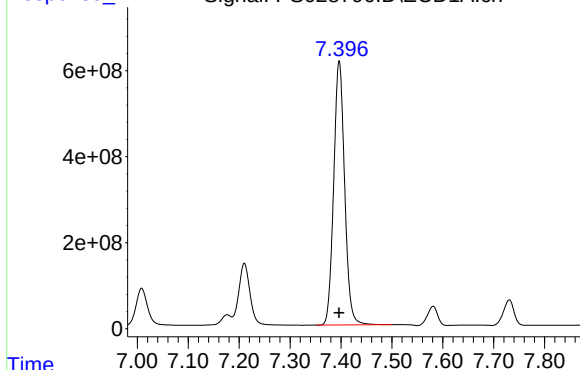
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 2149749343
Conc: 994.27 ng/ml m



#4 2,4-DCAA

R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 1104094634
Conc: 998.68 ng/ml



R.T.: 7.397 min
Delta R.T.: 0.000 min
Response: 9168915637
Conc: 942.22 ng/ml

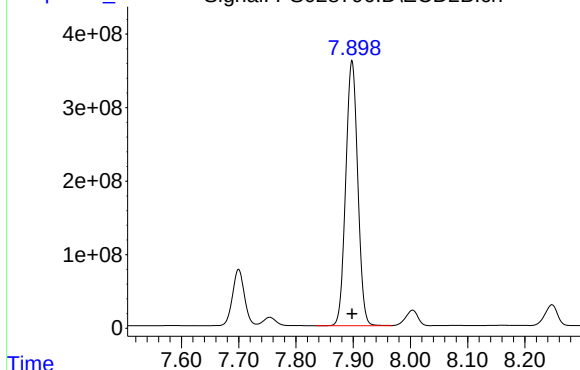
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
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Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Response_ Signal: PS028790.D\ECD2B.ch

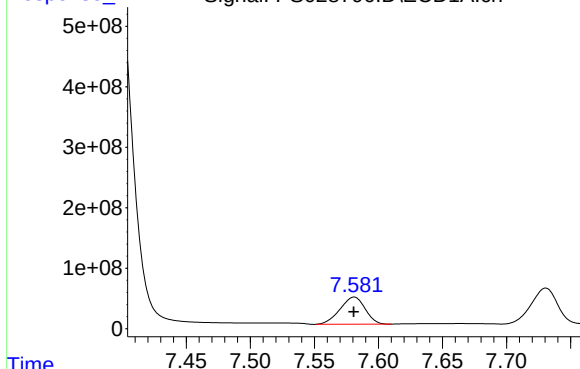
#5 DICAMBA



R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 5233373016
Conc: 940.26 ng/ml

Response_ Signal: PS028790.D\ECD1A.ch

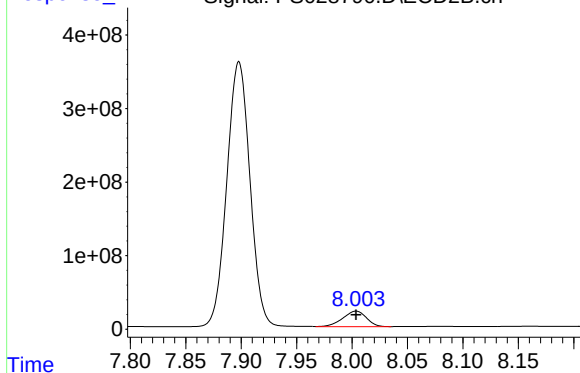
#6 MCPP



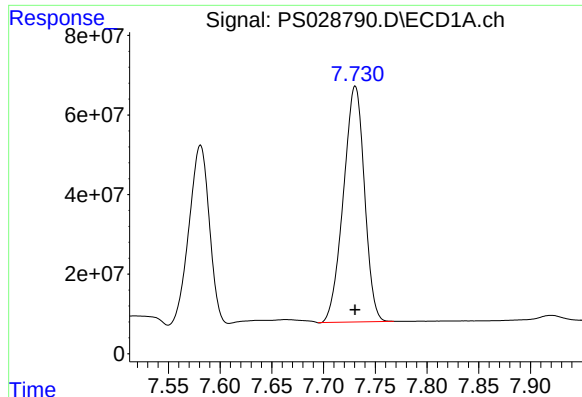
R.T.: 7.581 min
Delta R.T.: 0.000 min
Response: 613570466
Conc: 93.27 ug/ml

Response_ Signal: PS028790.D\ECD2B.ch

#6 MCPP



R.T.: 8.004 min
Delta R.T.: 0.000 min
Response: 312584461
Conc: 93.80 ug/ml



#7 MCPA

R.T.: 7.731 min
Delta R.T.: 0.000 min
Response: 836729639
Conc: 92.73 ug/ml

Instrument :

ECD_S

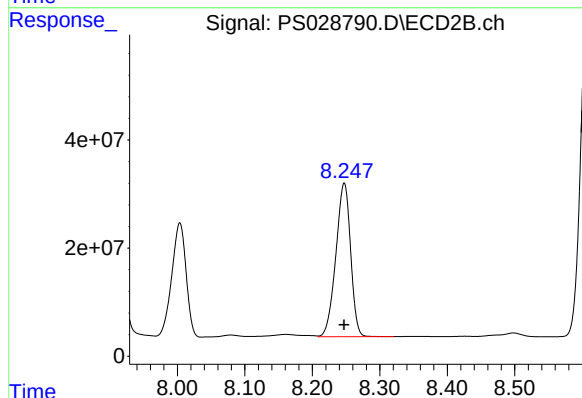
ClientSampleId :

HSTDICC1000

Manual Integrations

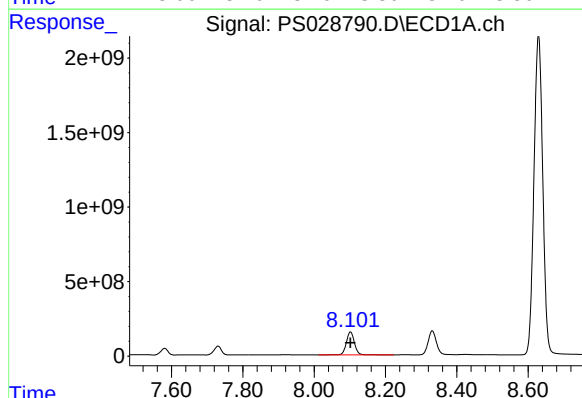
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Supervised By :Ankita Jodhani 12/27/2024



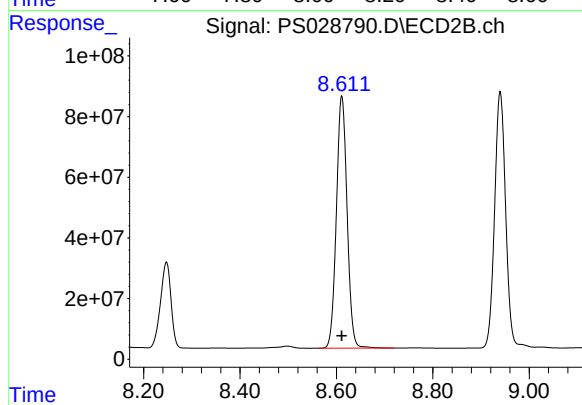
#7 MCPA

R.T.: 8.247 min
Delta R.T.: 0.000 min
Response: 431033829
Conc: 92.76 ug/ml



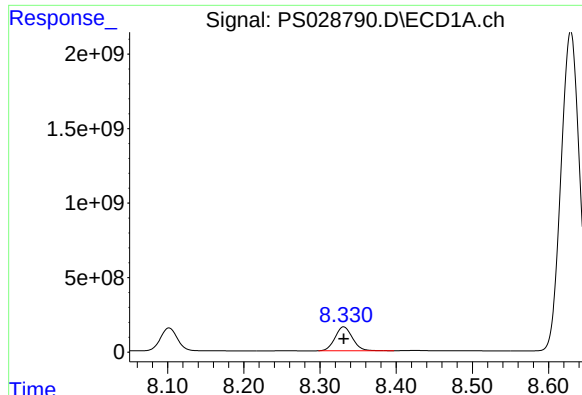
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 2407731346
Conc: 943.77 ng/ml



#8 DICHLORPROP

R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 1281467502
Conc: 938.00 ng/ml



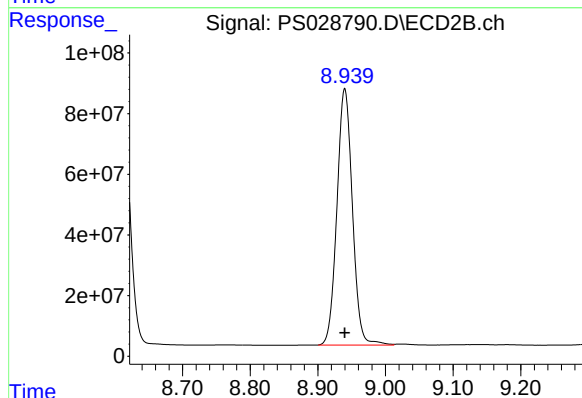
#9 2,4-D

R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 2561822082
Conc: 936.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

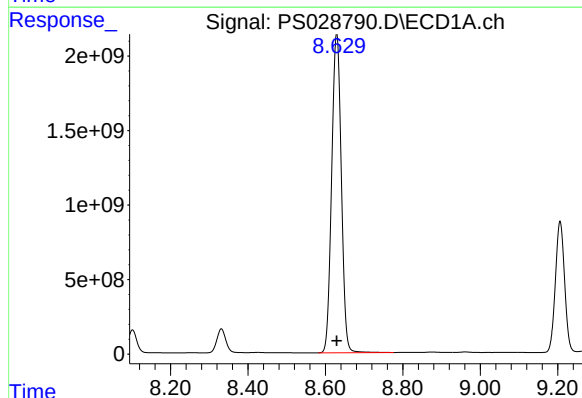
Manual Integrations
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Supervised By :Ankita Jodhani 12/27/2024



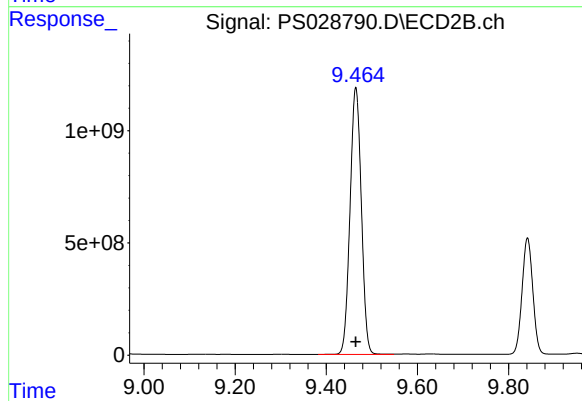
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1344098924
Conc: 939.29 ng/ml



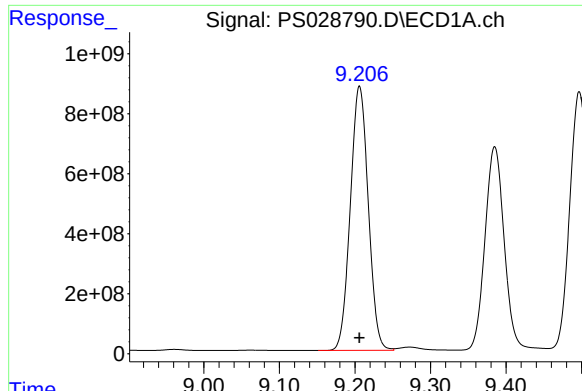
#10 Pentachlorophenol

R.T.: 8.629 min
Delta R.T.: 0.000 min
Response: 36737981703
Conc: 996.15 ng/ml



#10 Pentachlorophenol

R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 20389309944
Conc: 954.35 ng/ml



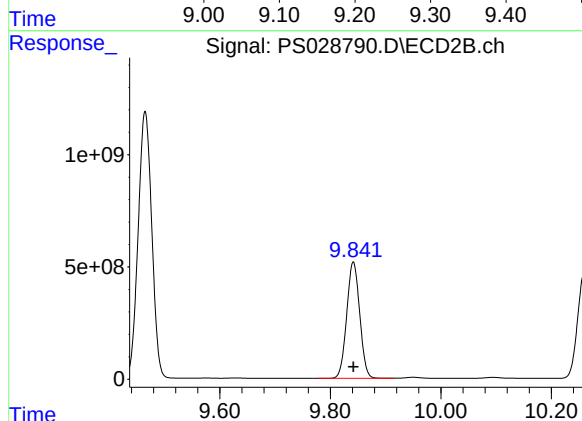
#11 2,4,5-TP (SILVEX)

R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 14533086349
Conc: 953.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

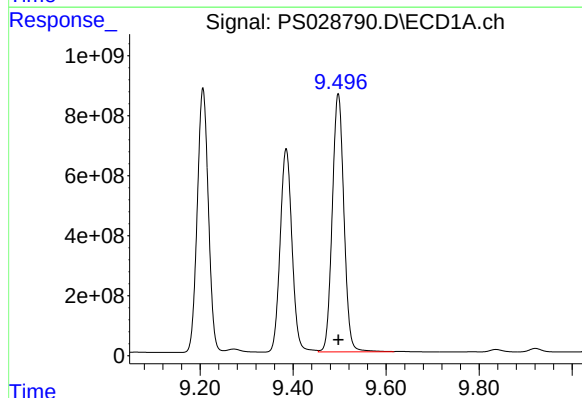
Manual Integrations
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Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



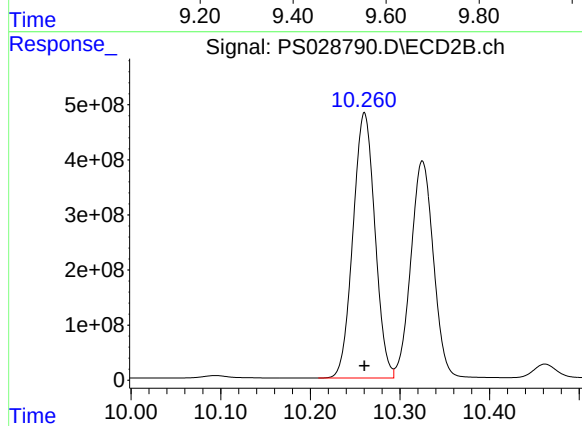
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 8474047803
Conc: 951.56 ng/ml



#12 2,4,5-T

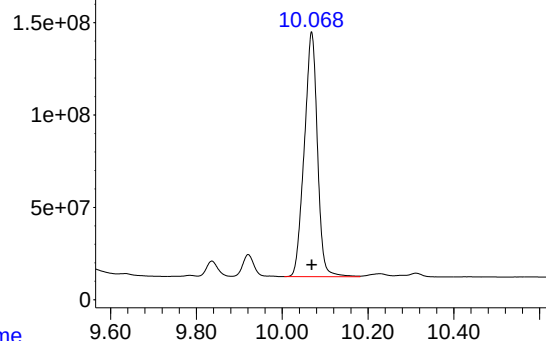
R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 14990081895
Conc: 954.26 ng/ml



#12 2,4,5-T

R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 8190674112
Conc: 952.55 ng/ml

Response_ Signal: PS028790.D\ECD1A.ch



#13 2,4-DB

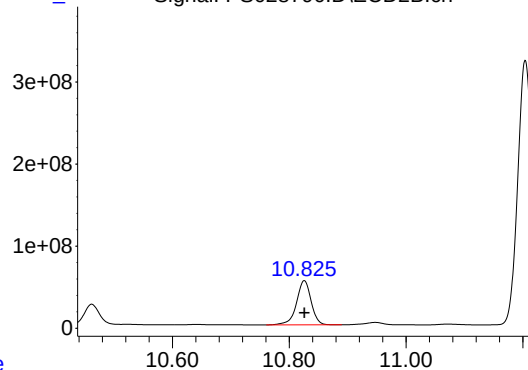
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 2816645135
Conc: 949.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

**Manual Integrations
APPROVED**

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

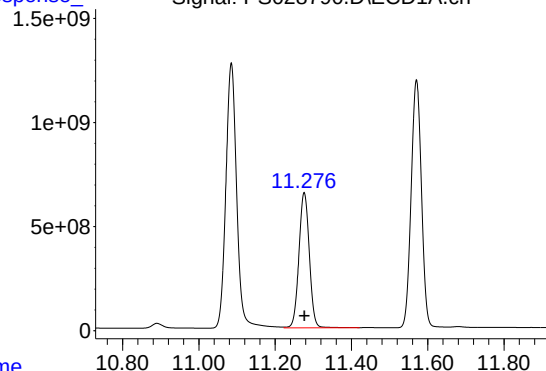
Time Response_ Signal: PS028790.D\ECD2B.ch



#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 933183960
Conc: 946.75 ng/ml

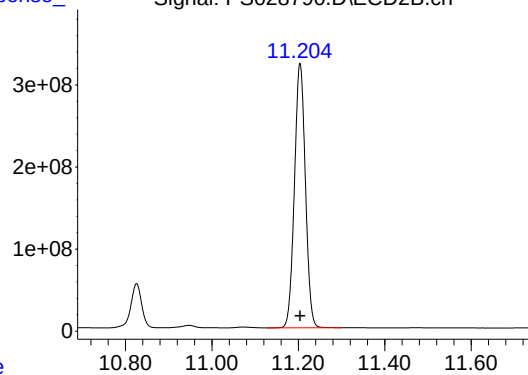
Time Response_ Signal: PS028790.D\ECD1A.ch



#14 DINOSEB

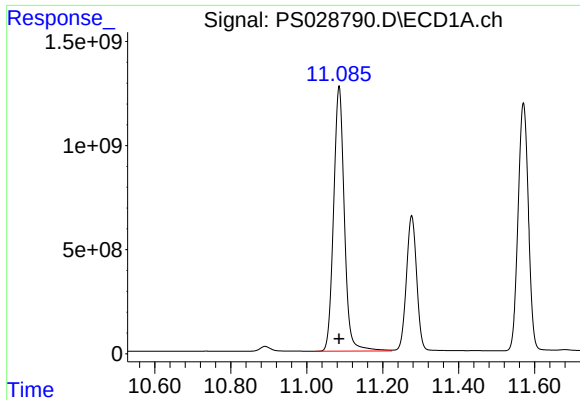
R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 12260566434
Conc: 942.78 ng/ml

Time Response_ Signal: PS028790.D\ECD2B.ch



#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 5663401402
Conc: 940.85 ng/ml



#15 Picloram

R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 25059396827
Conc: 951.84 ng/ml

ICAL Form

Instrument :

ECD_S

ClientSampleId :

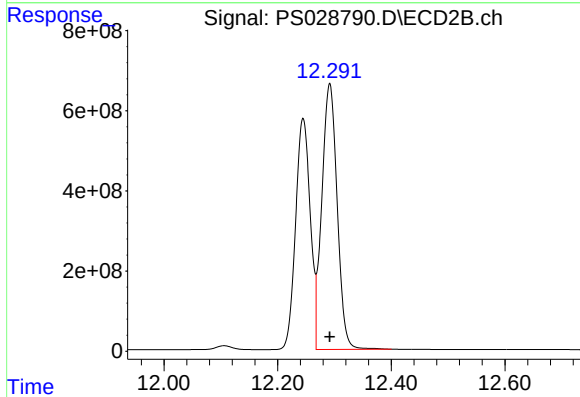
HSTDICC1000

Manual Integrations

APPROVED

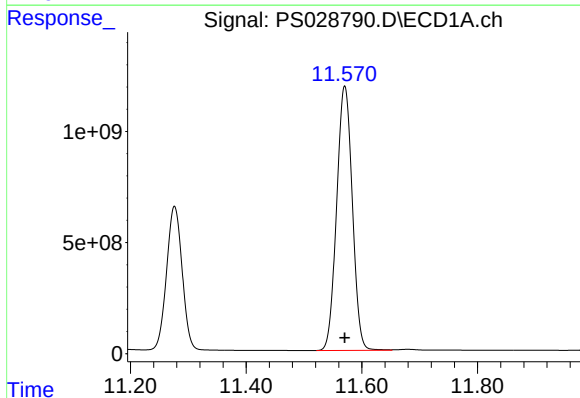
Reviewed By :Abdul Mirza 12/26/2024

Supervised By :Ankita Jodhani 12/27/2024



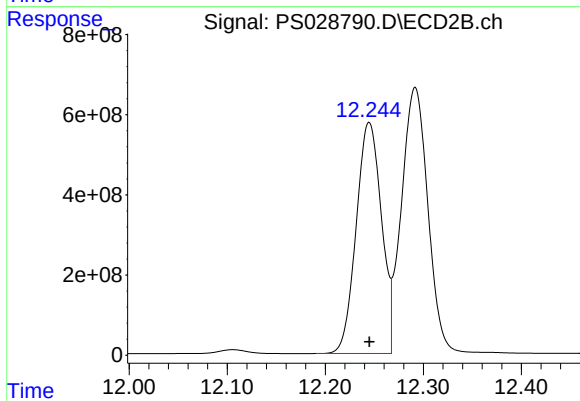
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 12444414253
Conc: 952.26 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 22401440664
Conc: 964.96 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 10328797190
Conc: 963.81 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028791.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 12:59
 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: Dec 23 13:37:42 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:35:06 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	7.210	7.700	3159.0E6	1634.0E6	1448.854	1477.000
Target Compounds							
1) T	Dalapon	2.620	2.674	3901.5E6	2660.4E6	1367.777	1355.258
2) T	3,5-DICHL...	6.384	6.660	4307.4E6	2235.6E6	1353.554	1371.814
3) T	4-Nitroph...	7.007	7.228	1975.5E6	1099.5E6	1351.202	1352.954
5) T	DICAMBA	7.396	7.898	13385.8E6	7820.8E6	1377.179	1405.324
6) T	MCPD	7.584	8.007	952.4E6	470.5E6	144.213	141.020
7) T	MCPA	7.735	8.252	1270.1E6	643.3E6	140.546	138.269
8) T	DICHLORPROP	8.102	8.612	3474.4E6	1899.0E6	1364.612	1388.514
9) T	2,4-D	8.331	8.940	3718.3E6	1988.4E6	1357.155	1389.047
10) T	Pentachlo...	8.631	9.465	45093.8E6	29077.7E6	1253.147	1364.143
11) T	2,4,5-TP ...	9.206	9.842	20859.8E6	12378.2E6	1370.560	1391.100
12) T	2,4,5-T	9.497	10.260	21373.9E6	11941.5E6	1363.706	1390.614
13) T	2,4-DB	10.068	10.826	4130.0E6	1402.8E6	1392.613	1420.801
14) T	DINOSEB	11.276	11.204	17617.5E6	8297.5E6	1356.705	1379.055
15) T	Picloram	11.084	12.292	36367.3E6	18444.3E6	1382.691	1413.049
16) T	DCPA	11.570	12.246	31790.5E6	15026.5E6	1372.953	1404.946

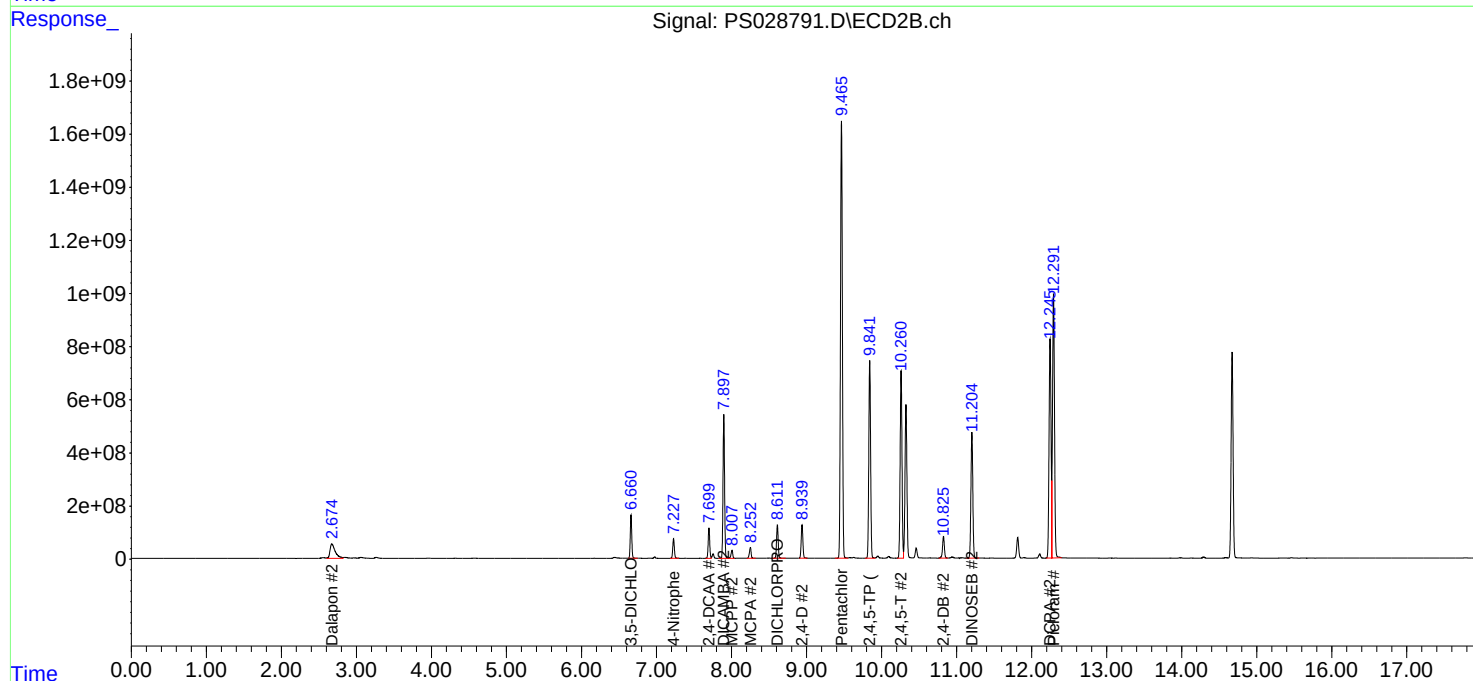
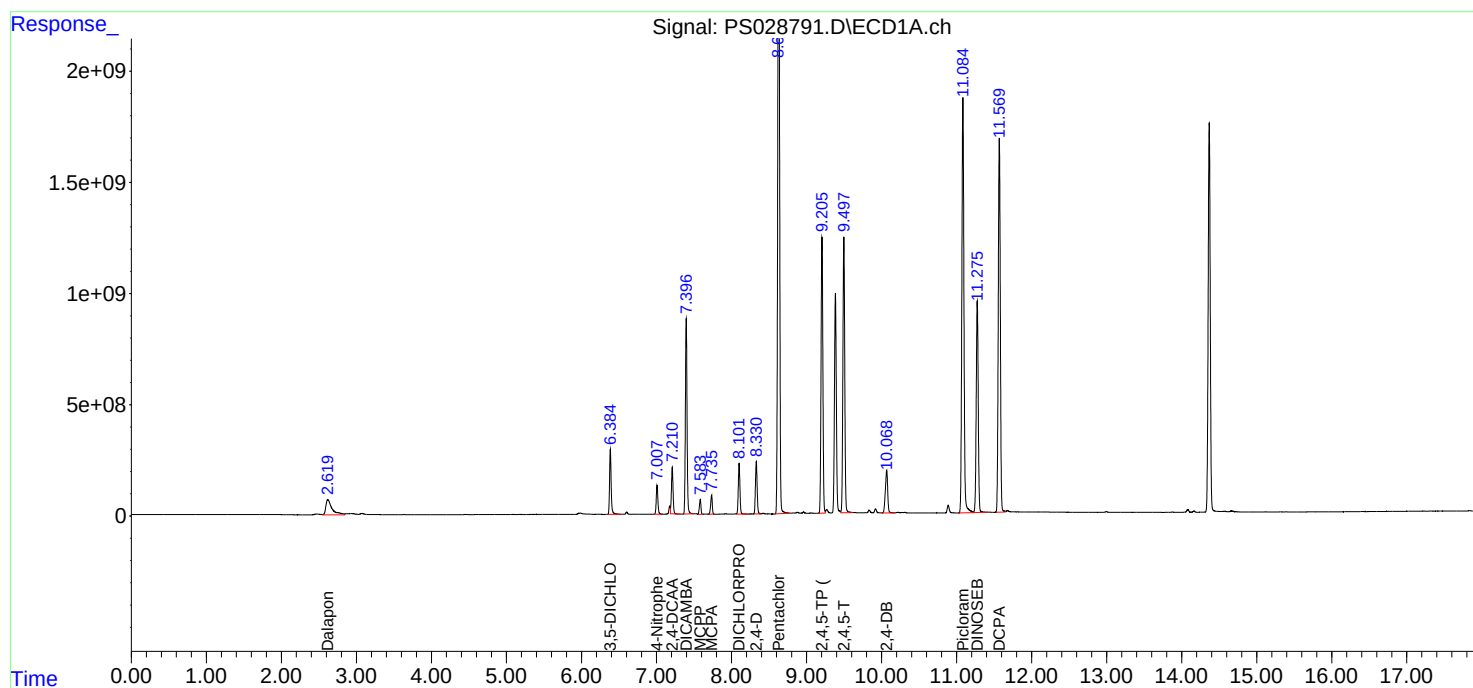
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028791.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:59
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

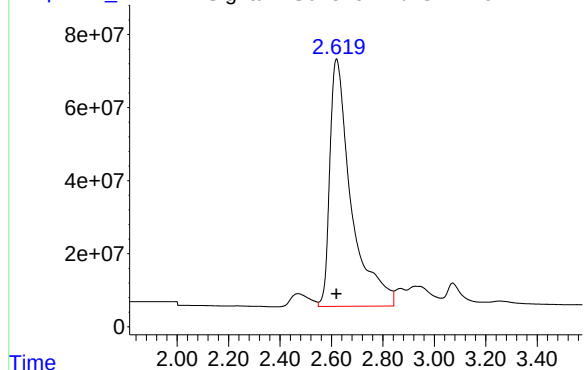
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:37:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 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: PS028791.D\ECD1A.ch

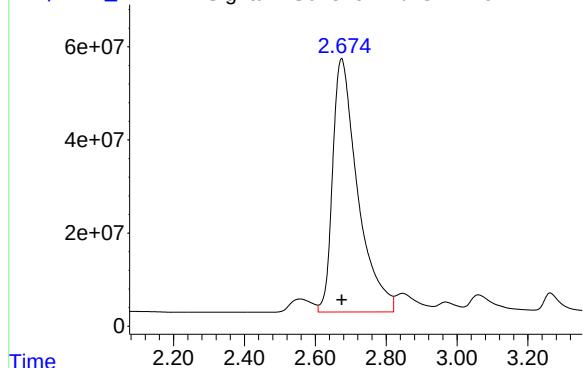


#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 3901479879
Conc: 1367.78 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

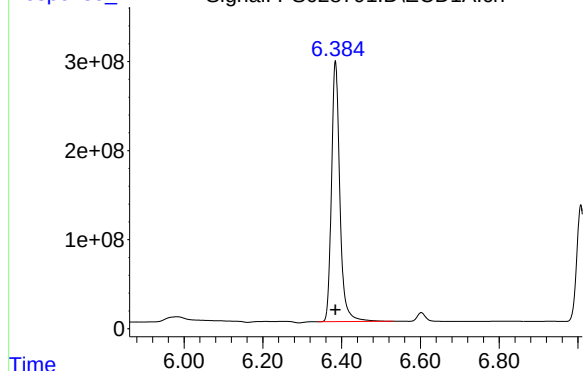
Response_ Signal: PS028791.D\ECD2B.ch



#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.000 min
Response: 2660428203
Conc: 1355.26 ng/ml

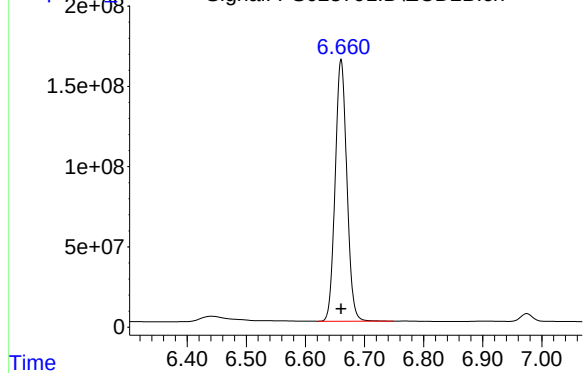
Response_ Signal: PS028791.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

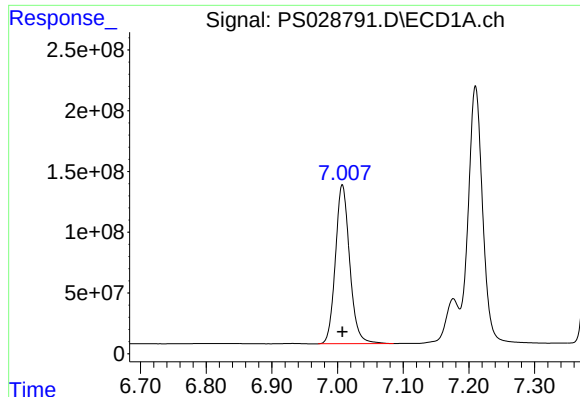
R.T.: 6.384 min
Delta R.T.: 0.000 min
Response: 4307385267
Conc: 1353.55 ng/ml

Response_ Signal: PS028791.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

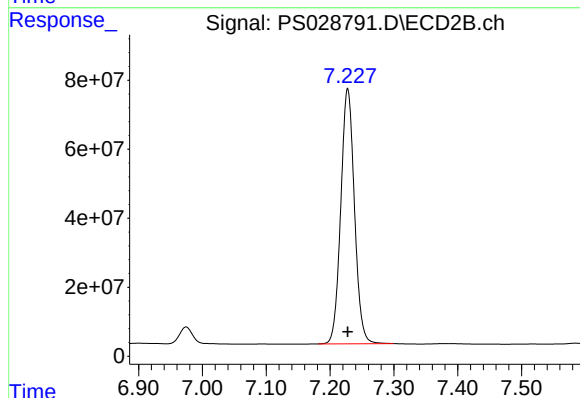
R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 2235587156
Conc: 1371.81 ng/ml



#3 4-Nitrophenol

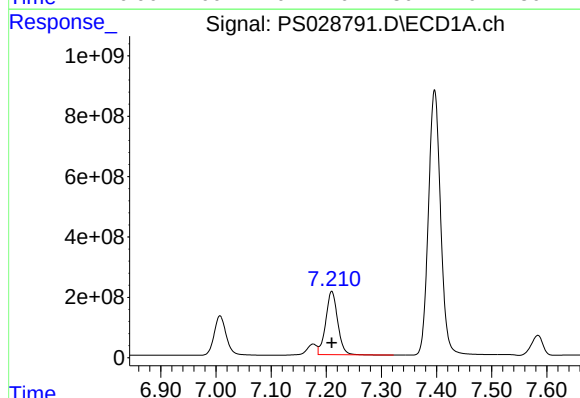
R.T.: 7.007 min
Delta R.T.: 0.000 min
Response: 1975450118
Conc: 1351.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



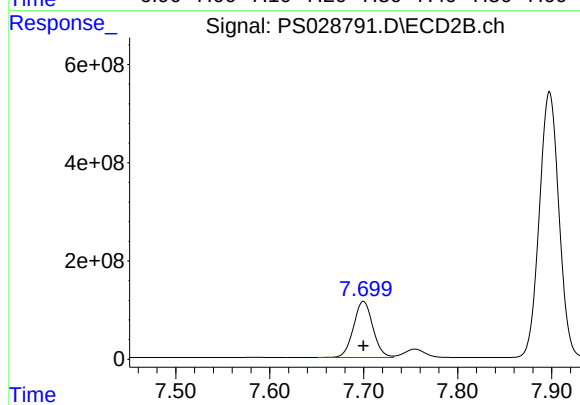
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 1099486307
Conc: 1352.95 ng/ml



#4 2,4-DCAA

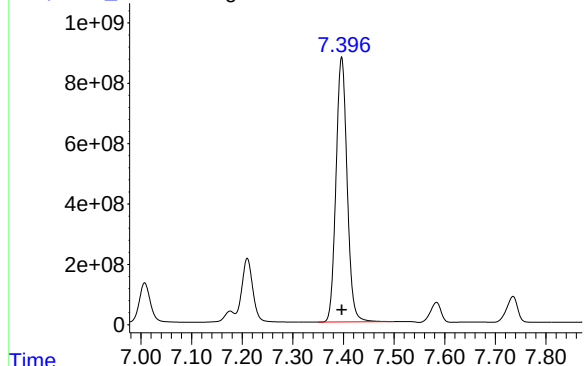
R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 3159021002
Conc: 1448.85 ng/ml



#4 2,4-DCAA

R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 1633970858
Conc: 1477.00 ng/ml

Response_ Signal: PS028791.D\ECD1A.ch

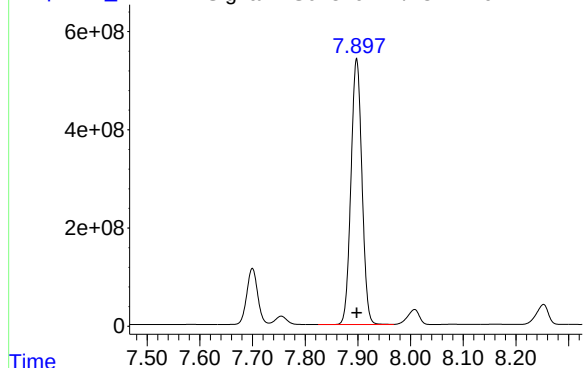


#5 DICAMBA

R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 13385828858
Conc: 1377.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

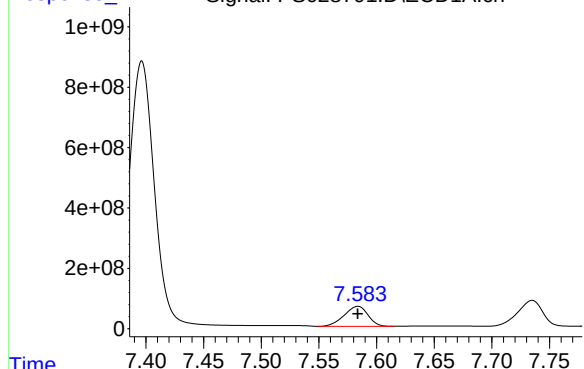
Response_ Signal: PS028791.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 7820821741
Conc: 1405.32 ng/ml

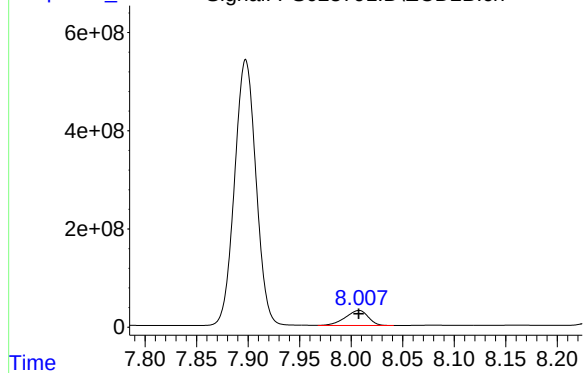
Response_ Signal: PS028791.D\ECD1A.ch



#6 MCPP

R.T.: 7.584 min
Delta R.T.: 0.000 min
Response: 952442567
Conc: 144.21 ug/ml

Response_ Signal: PS028791.D\ECD2B.ch

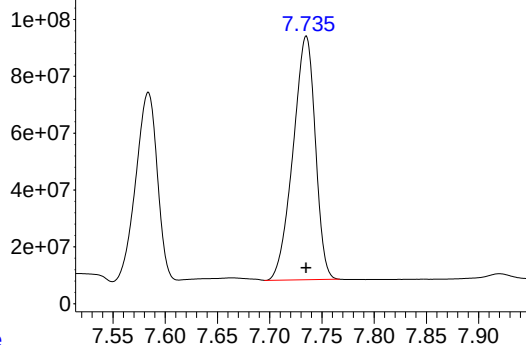


#6 MCPP

R.T.: 8.007 min
Delta R.T.: 0.000 min
Response: 470469621
Conc: 141.02 ug/ml

Response_ Signal: PS028791.D\ECD1A.ch

#7 MCPA

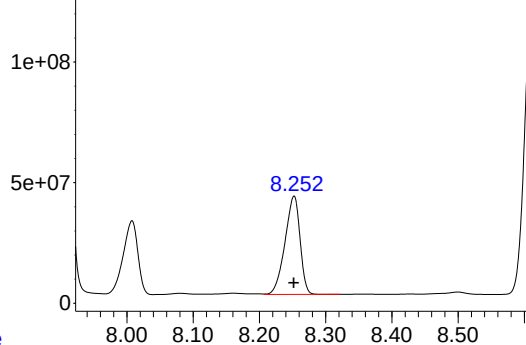


R.T.: 7.735 min
Delta R.T.: 0.000 min
Response: 1270107710
Conc: 140.55 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Time Response_ Signal: PS028791.D\ECD2B.ch

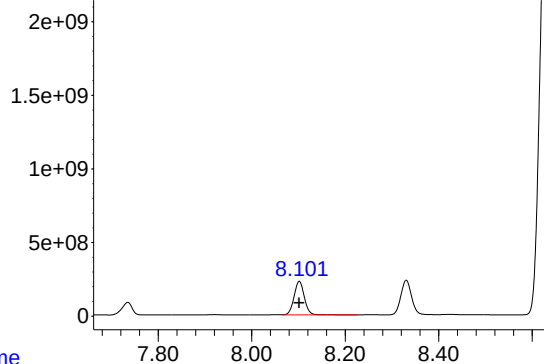
#7 MCPA



R.T.: 8.252 min
Delta R.T.: 0.000 min
Response: 643338244
Conc: 138.27 ug/ml

Time Response_ Signal: PS028791.D\ECD1A.ch

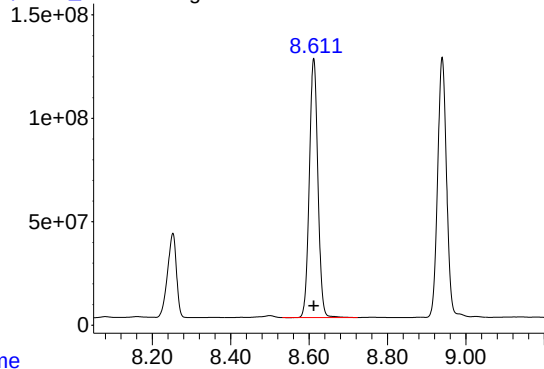
#8 DICHLORPROP



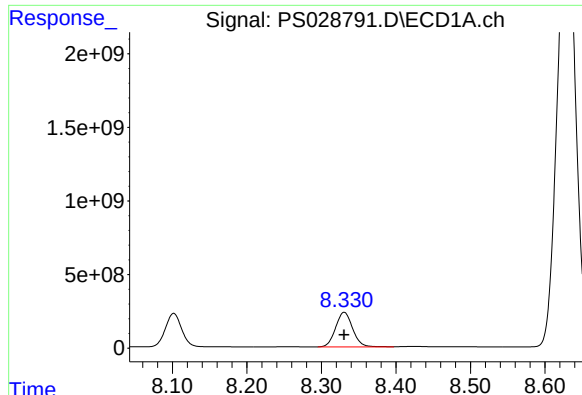
R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 3474411488
Conc: 1364.61 ng/ml

Time Response_ Signal: PS028791.D\ECD2B.ch

#8 DICHLORPROP



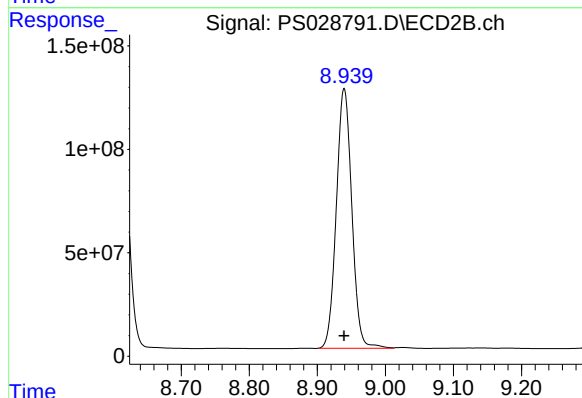
R.T.: 8.612 min
Delta R.T.: 0.000 min
Response: 1898968431
Conc: 1388.51 ng/ml



#9 2,4-D

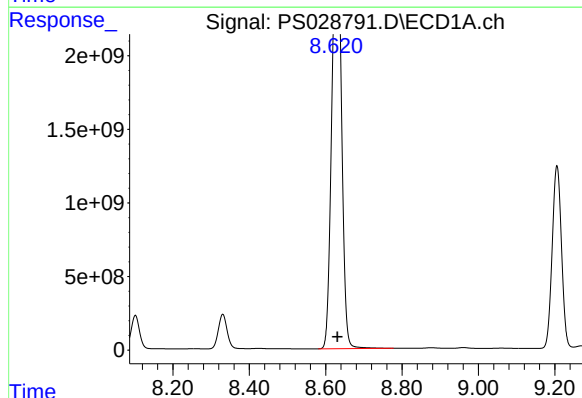
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 3718255839
Conc: 1357.15 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



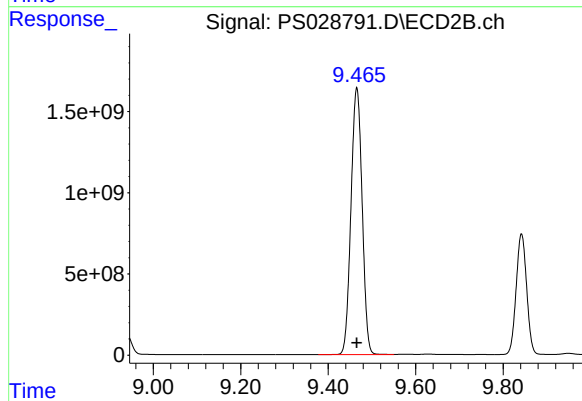
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1988447209
Conc: 1389.05 ng/ml



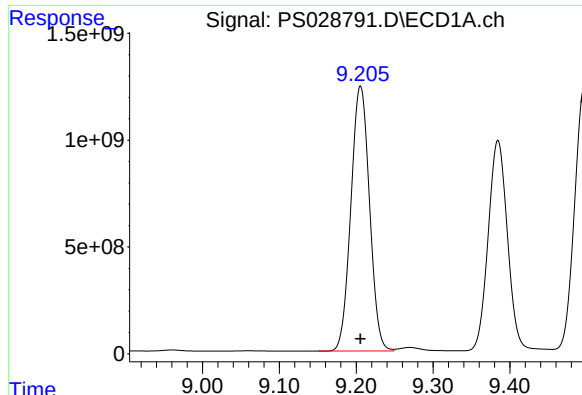
#10 Pentachlorophenol

R.T.: 8.631 min
Delta R.T.: 0.000 min
Response: 45093759991
Conc: 1253.15 ng/ml



#10 Pentachlorophenol

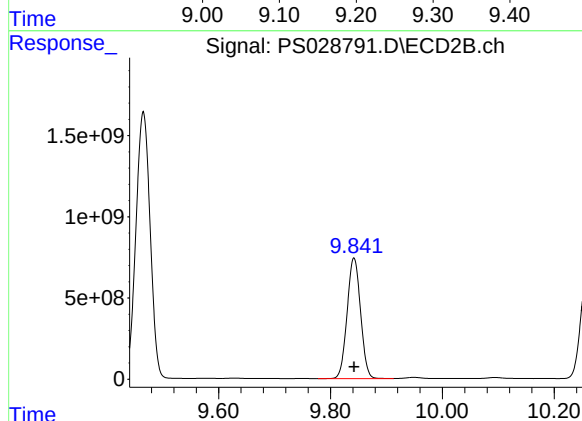
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 29077732626
Conc: 1364.14 ng/ml



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

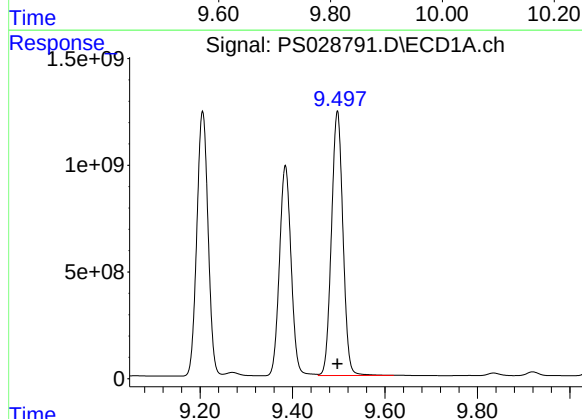
R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 20859775932
Conc: 1370.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



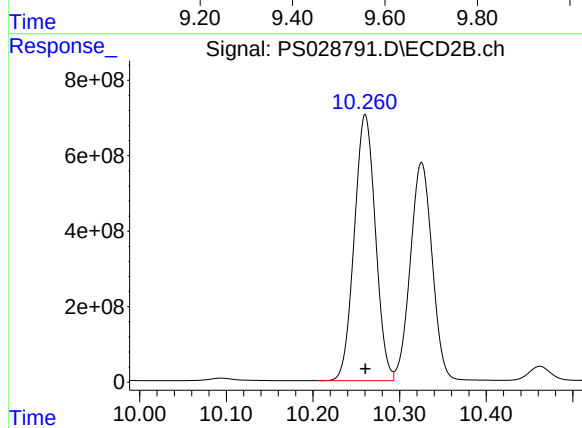
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 12378220785
Conc: 1391.10 ng/ml



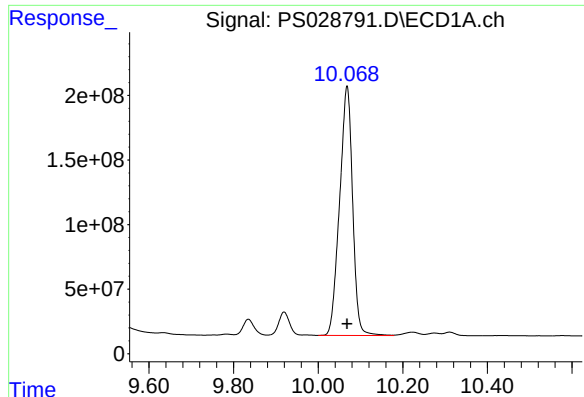
#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 21373941933
Conc: 1363.71 ng/ml



#12 2,4,5-T

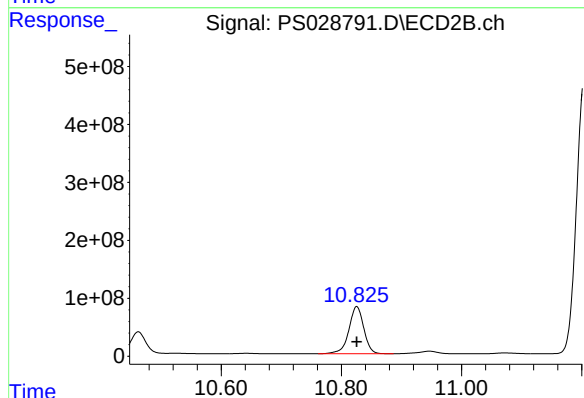
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 11941494906
Conc: 1390.61 ng/ml



#13 2,4-DB

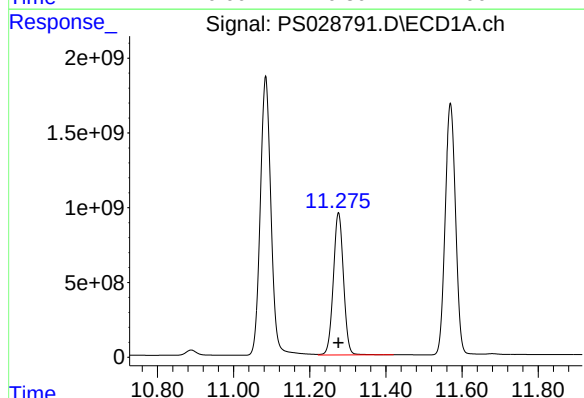
R.T.: 10.068 min
Delta R.T.: 0.000 min
Response: 4130041812
Conc: 1392.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



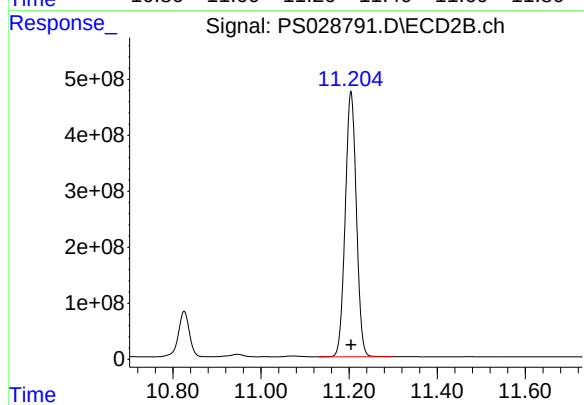
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 1402847422
Conc: 1420.80 ng/ml



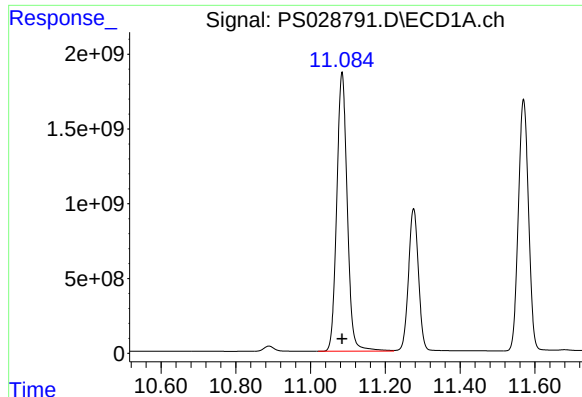
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 17617474887
Conc: 1356.70 ng/ml



#14 DINOSEB

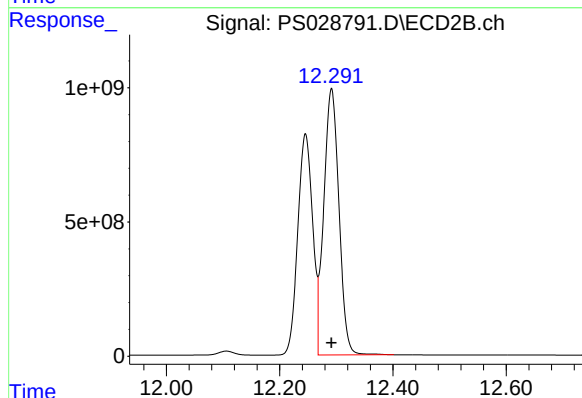
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 8297462357
Conc: 1379.05 ng/ml



#15 Picloram

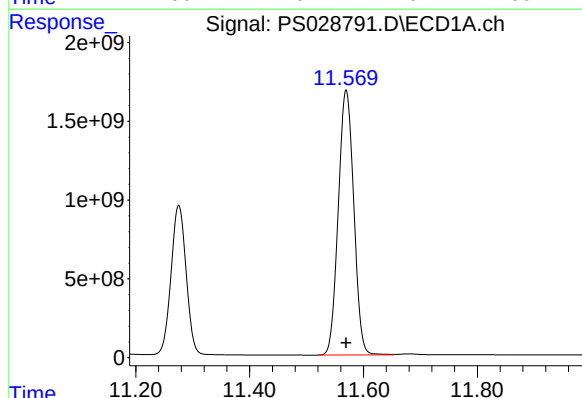
R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 36367254236
Conc: 1382.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



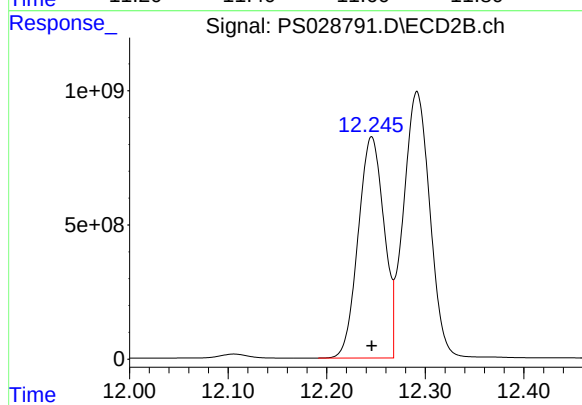
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 18444305786
Conc: 1413.05 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 31790485497
Conc: 1372.95 ng/ml



#16 DCPA

R.T.: 12.246 min
Delta R.T.: 0.000 min
Response: 15026504222
Conc: 1404.95 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028792.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 13:23
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS122324

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 23 13:46:07 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 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	7.210	7.700	1706.7E6	828.1E6	754.480	735.781
Target Compounds							
1) T	Dalapon	2.621	2.675	1951.6E6	1334.4E6	692.891	677.823
2) T	3,5-DICHL...	6.384	6.661	2305.9E6	1138.7E6	699.801	686.960
3) T	4-Nitroph...	7.008	7.228	1016.0E6	552.1E6	676.411	659.739
5) T	DICAMBA	7.396	7.898	7062.8E6	3866.4E6	716.261	704.282
6) T	MCPD	7.579	8.002	456.2E6	231.9E6	73.254	70.975
7) T	MCPA	7.728	8.245	623.7E6	321.9E6	71.155	69.485
8) T	DICHLORPROP	8.101	8.611	1862.9E6	959.8E6	702.121	695.688
9) T	2,4-D	8.331	8.940	2015.1E6	1009.2E6	707.185	699.281
10) T	Pentachlo...	8.628	9.465	28881.2E6	15556.7E6	739.273	713.654
11) T	2,4,5-TP ...	9.205	9.842	11329.0E6	6380.5E6	721.166	710.250
12) T	2,4,5-T	9.496	10.260	11730.8E6	6163.7E6	721.046	707.724
13) T	2,4-DB	10.067	10.825	2171.9E6	695.5E6	695.755	716.223
14) T	DINOSEB	11.275	11.204	9517.2E6	4242.3E6	708.036	688.788
15) T	Picloram	11.084	12.292	19317.9E6	9248.4E6	720.473	720.334
16) T	DCPA	11.570	12.245	17485.9E6	7736.3E6	727.032	720.015

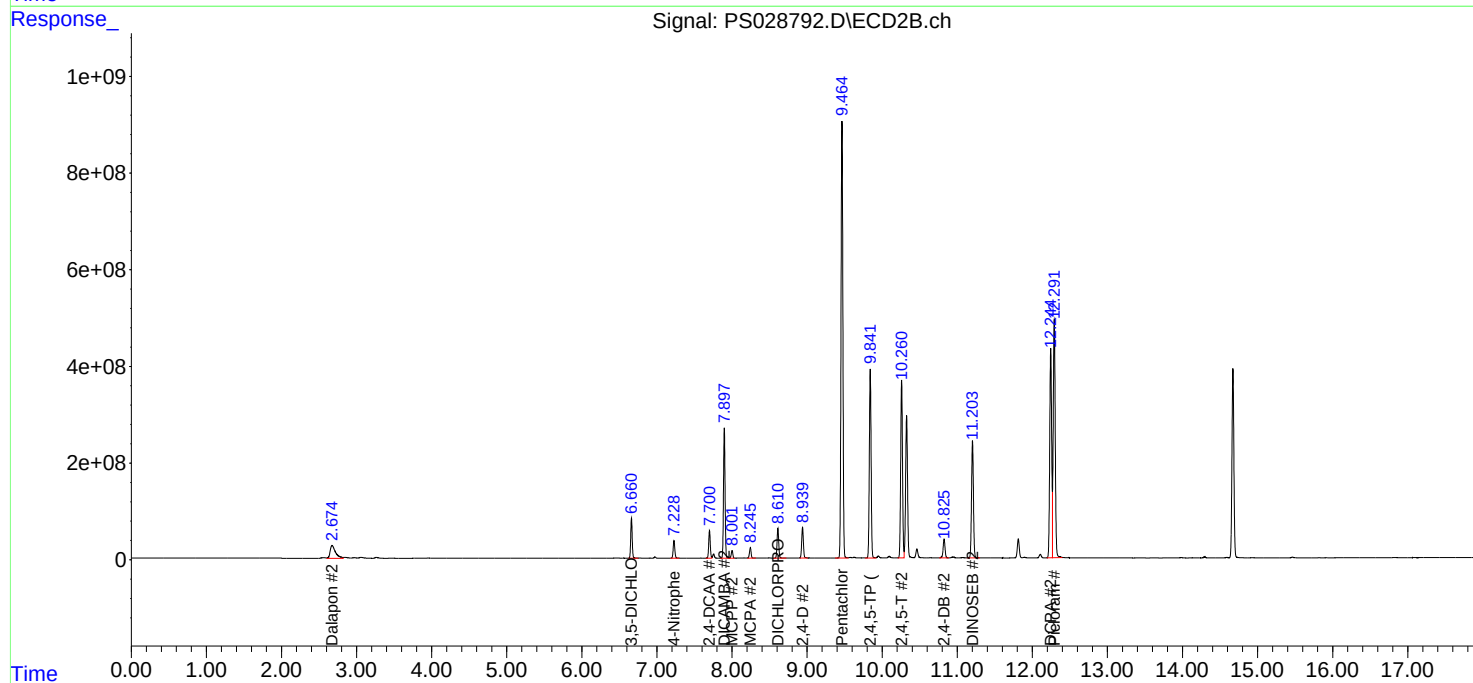
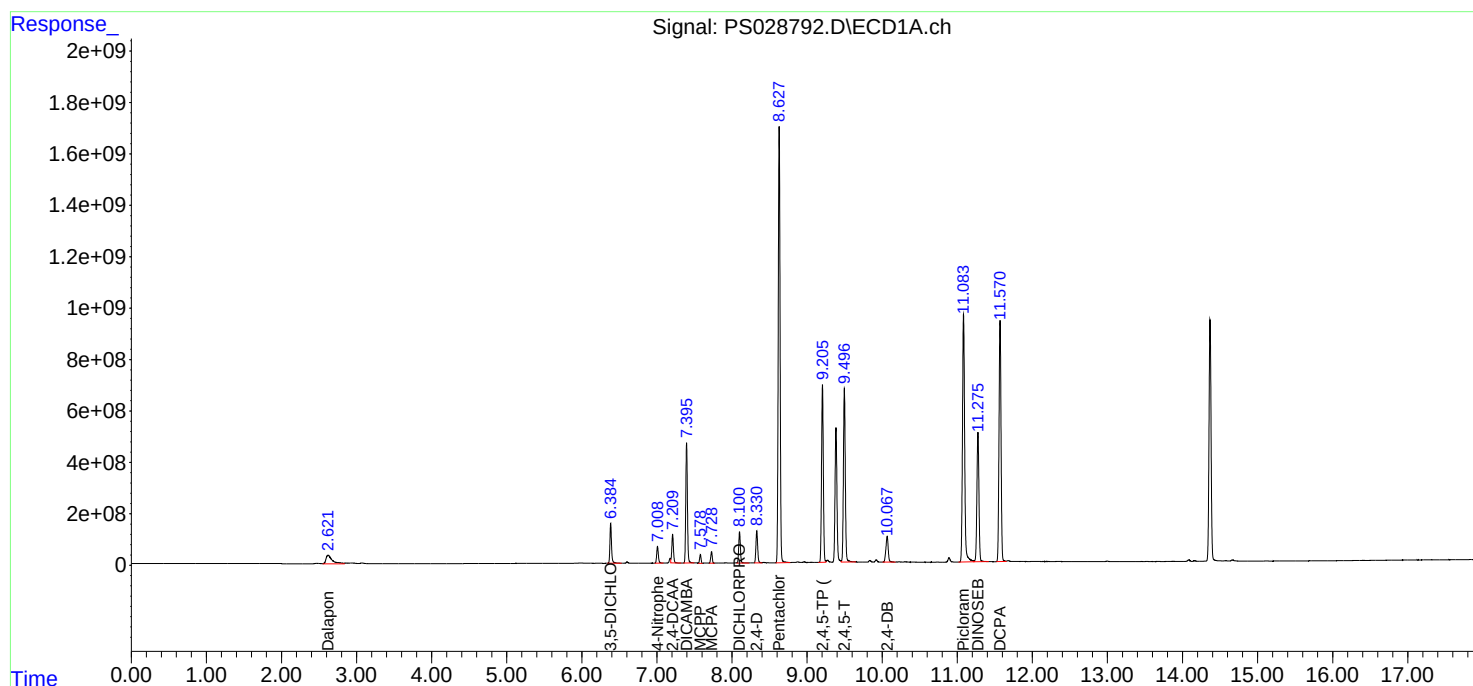
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028792.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 13:23
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS122324

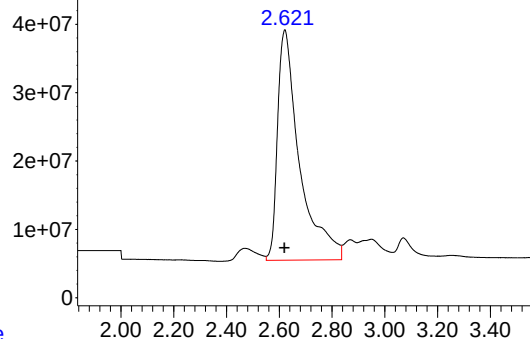
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:46:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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: PS028792.D\ECD1A.ch

#1 Dalapon

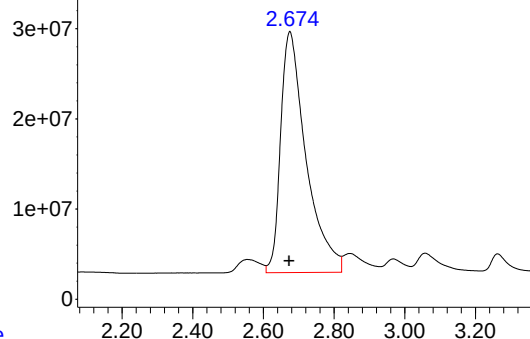


R.T.: 2.621 min
Delta R.T.: 0.001 min
Response: 1951632139
Conc: 692.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324

Time Response_ Signal: PS028792.D\ECD2B.ch

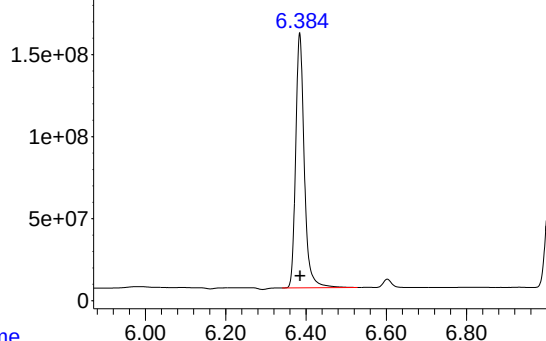
#1 Dalapon



R.T.: 2.675 min
Delta R.T.: 0.002 min
Response: 1334364131
Conc: 677.82 ng/ml

Time Response_ Signal: PS028792.D\ECD1A.ch

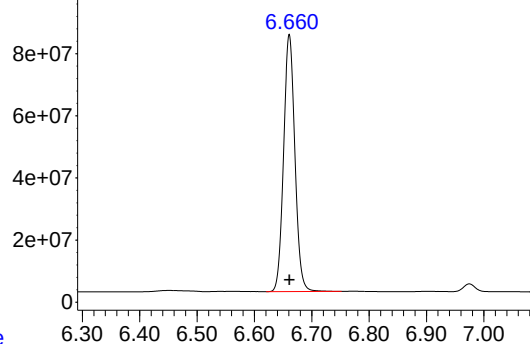
#2 3,5-DICHLOROBENZOIC ACID



R.T.: 6.384 min
Delta R.T.: 0.000 min
Response: 2305939207
Conc: 699.80 ng/ml

Time Response_ Signal: PS028792.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID



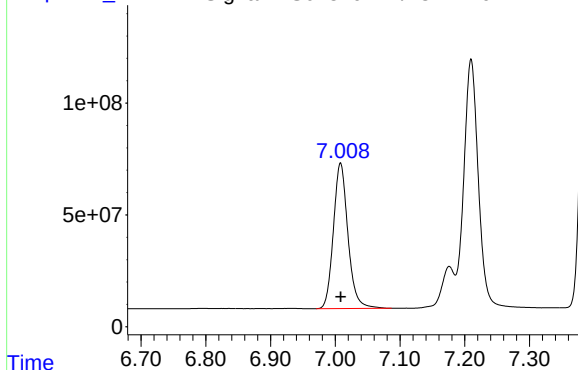
R.T.: 6.661 min
Delta R.T.: 0.000 min
Response: 1138685851
Conc: 686.96 ng/ml

Response_

Signal: PS028792.D\ECD1A.ch

#3 4-Nitrophenol

ICAL Form



R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 1016009037
Conc: 676.41 ng/ml

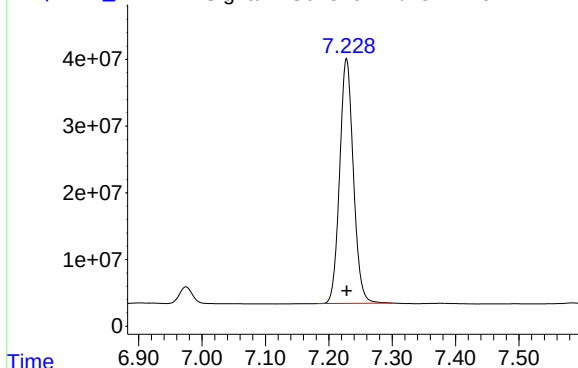
Instrument :
ECD_S
ClientSampleId :
ICVPS122324

Time

Response_

Signal: PS028792.D\ECD2B.ch

#3 4-Nitrophenol



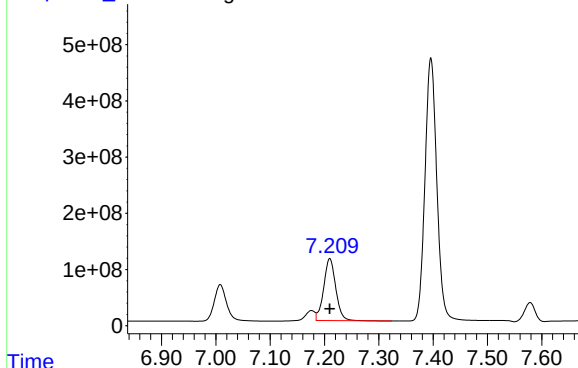
R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 552131161
Conc: 659.74 ng/ml

Time

Response_

Signal: PS028792.D\ECD1A.ch

#4 2,4-DCAA



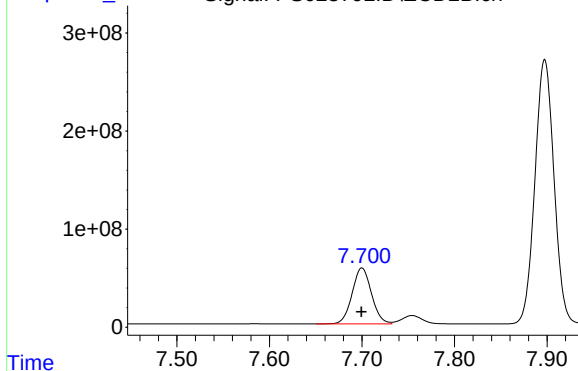
R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1706653392
Conc: 754.48 ng/ml

Time

Response_

Signal: PS028792.D\ECD2B.ch

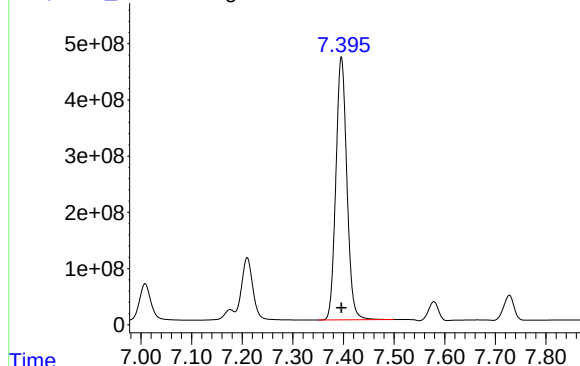
#4 2,4-DCAA



R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 828149629
Conc: 735.78 ng/ml

Time

Response_ Signal: PS028792.D\ECD1A.ch

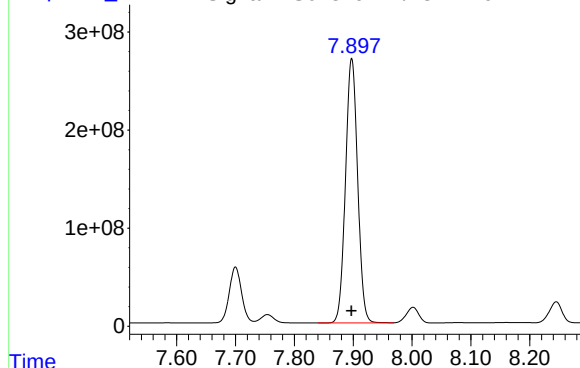


#5 DICAMBA

R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 7062794288
Conc: 716.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324

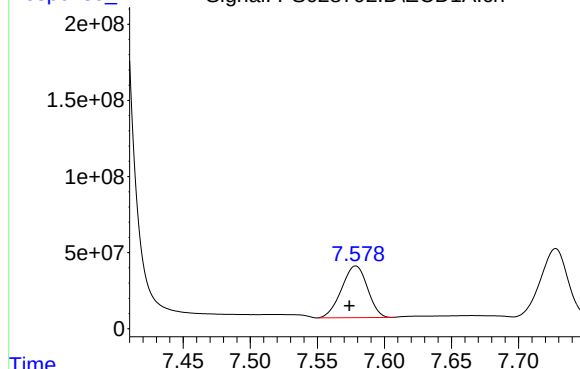
Response_ Signal: PS028792.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 3866416193
Conc: 704.28 ng/ml

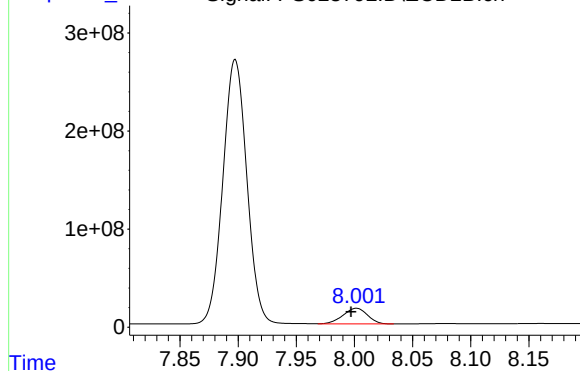
Response_ Signal: PS028792.D\ECD1A.ch



#6 MCP

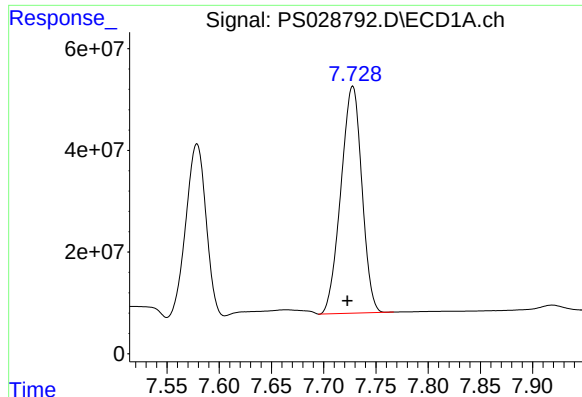
R.T.: 7.579 min
Delta R.T.: 0.005 min
Response: 456168053
Conc: 73.25 ug/ml

Response_ Signal: PS028792.D\ECD2B.ch



#6 MCP

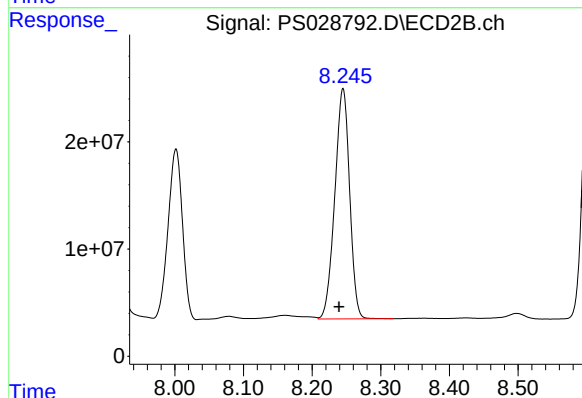
R.T.: 8.002 min
Delta R.T.: 0.005 min
Response: 231930611
Conc: 70.97 ug/ml



#7 MCPA

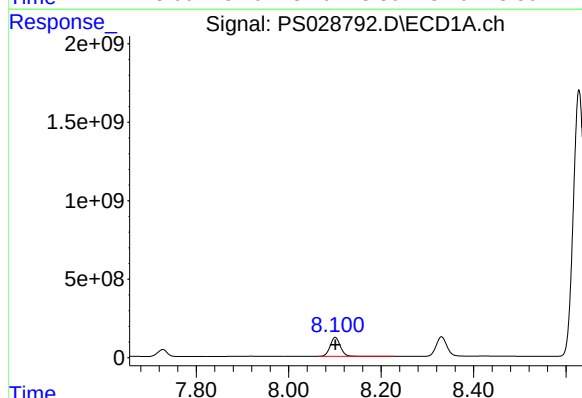
R.T.: 7.728 min
Delta R.T.: 0.005 min
Response: 623705874
Conc: 71.16 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



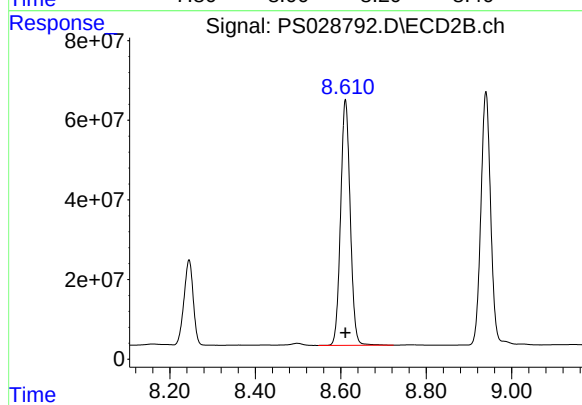
#7 MCPA

R.T.: 8.245 min
Delta R.T.: 0.006 min
Response: 321914525
Conc: 69.48 ug/ml



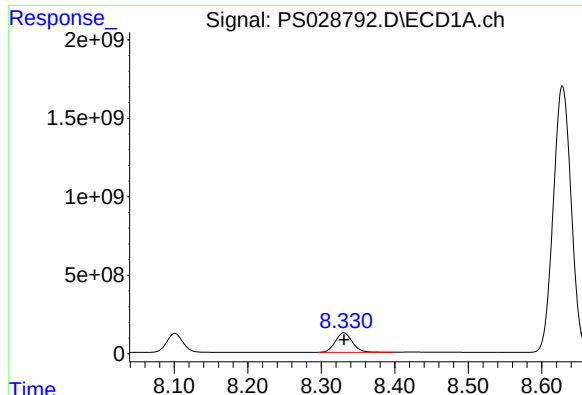
#8 DICHLORPROP

R.T.: 8.101 min
Delta R.T.: 0.000 min
Response: 1862851382
Conc: 702.12 ng/ml



#8 DICHLORPROP

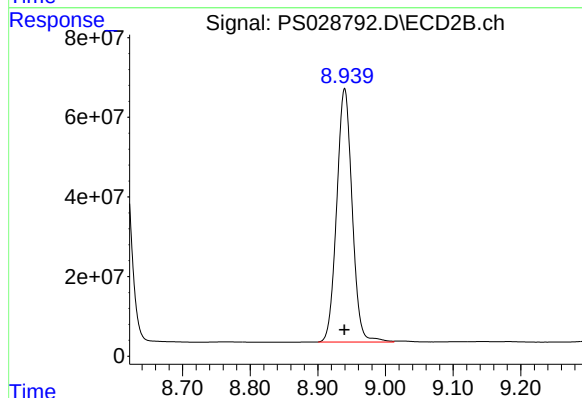
R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 959811952
Conc: 695.69 ng/ml



#9 2,4-D

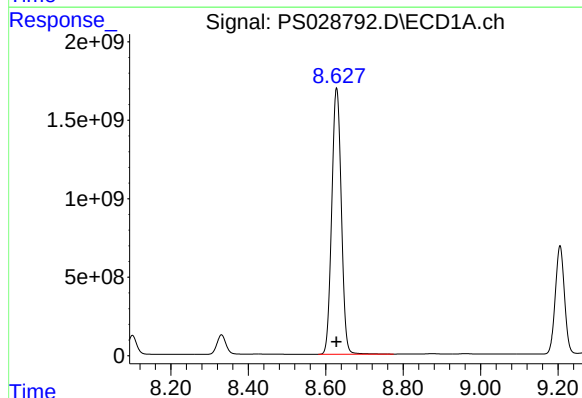
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 2015146828
Conc: 707.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



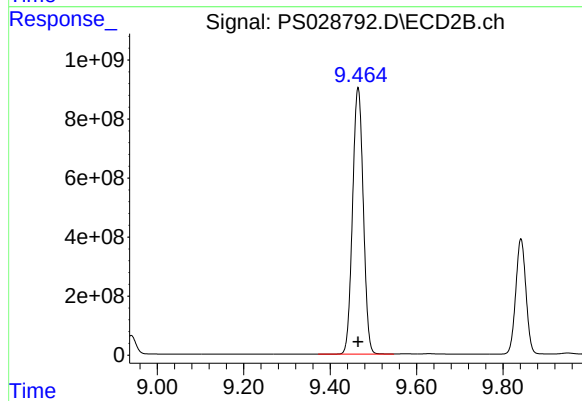
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1009164598
Conc: 699.28 ng/ml



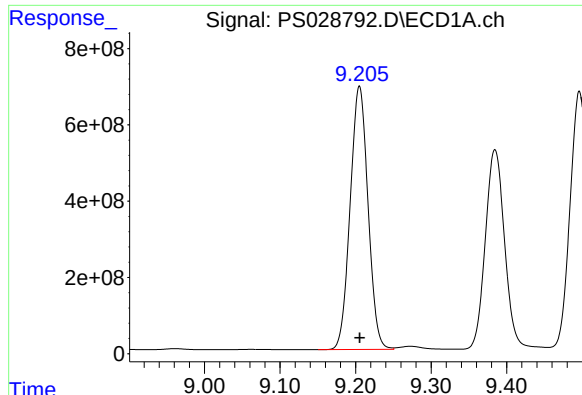
#10 Pentachlorophenol

R.T.: 8.628 min
Delta R.T.: 0.000 min
Response: 28881158451
Conc: 739.27 ng/ml



#10 Pentachlorophenol

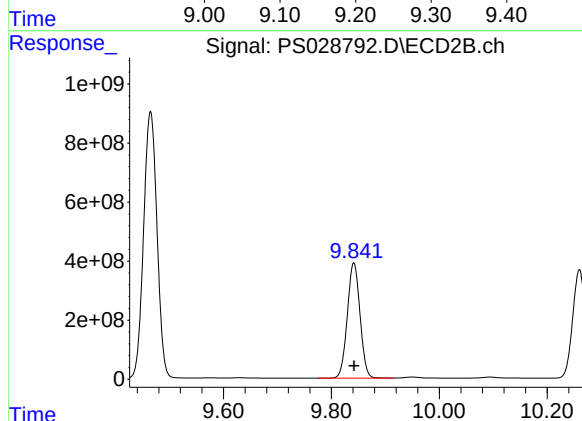
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 15556739865
Conc: 713.65 ng/ml



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

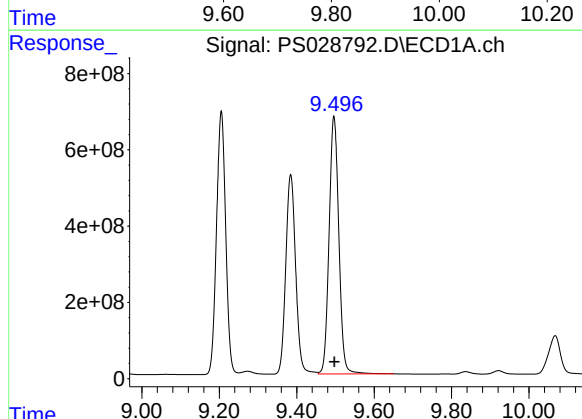
R.T.: 9.205 min
Delta R.T.: 0.000 min
Response: 11329034395
Conc: 721.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



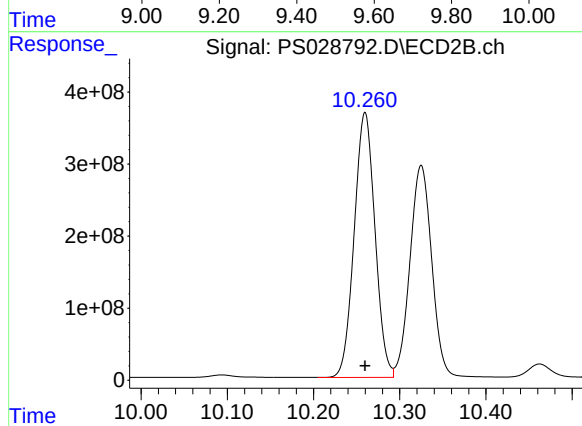
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 6380542860
Conc: 710.25 ng/ml



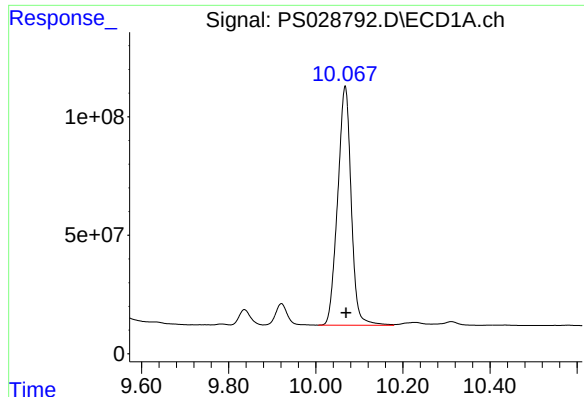
#12 2,4,5-T

R.T.: 9.496 min
Delta R.T.: -0.001 min
Response: 11730841241
Conc: 721.05 ng/ml



#12 2,4,5-T

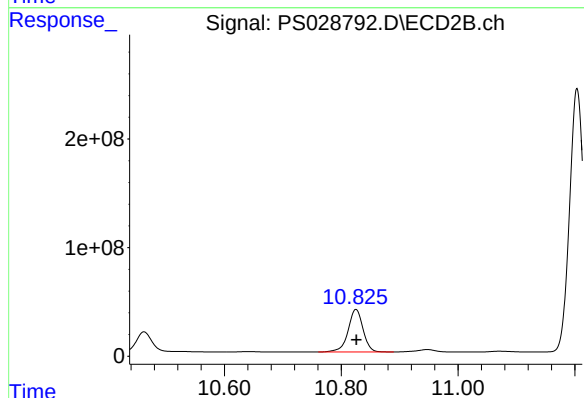
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 6163696965
Conc: 707.72 ng/ml



#13 2,4-DB

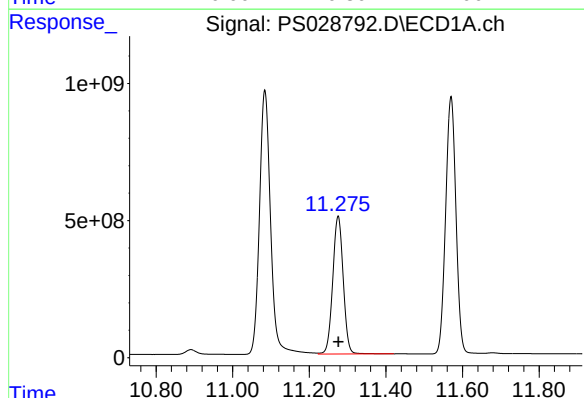
R.T.: 10.067 min
Delta R.T.: -0.002 min
Response: 2171868158
Conc: 695.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



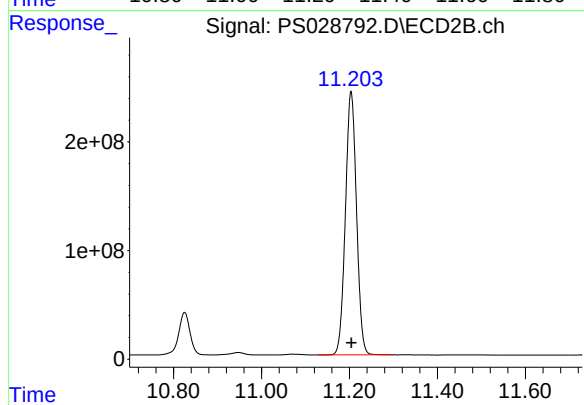
#13 2,4-DB

R.T.: 10.825 min
Delta R.T.: 0.000 min
Response: 695522369
Conc: 716.22 ng/ml



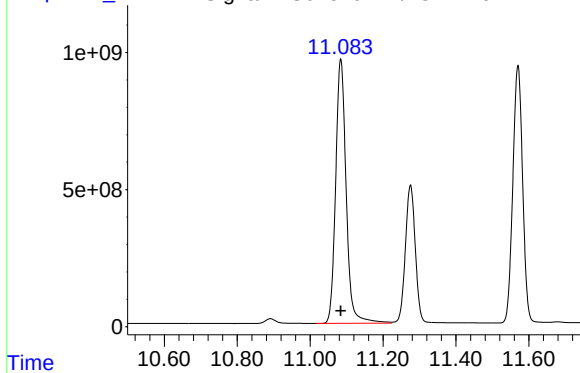
#14 DINOSEB

R.T.: 11.275 min
Delta R.T.: 0.000 min
Response: 9517228199
Conc: 708.04 ng/ml



#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 4242343247
Conc: 688.79 ng/ml



R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 19317884108
Conc: 720.47 ng/ml

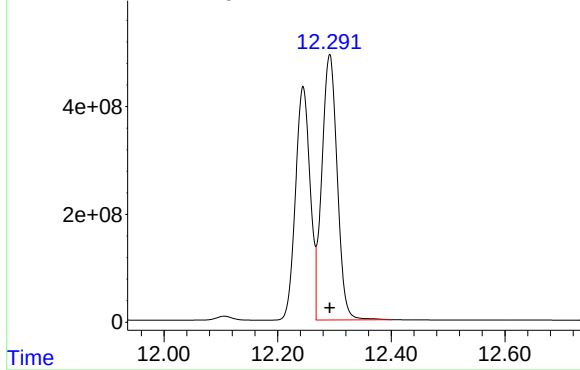
Instrument :
ECD_S
ClientSampleId :
ICVPS122324

Time

Response_

Signal: PS028792.D\ECD2B.ch

#15 Picloram



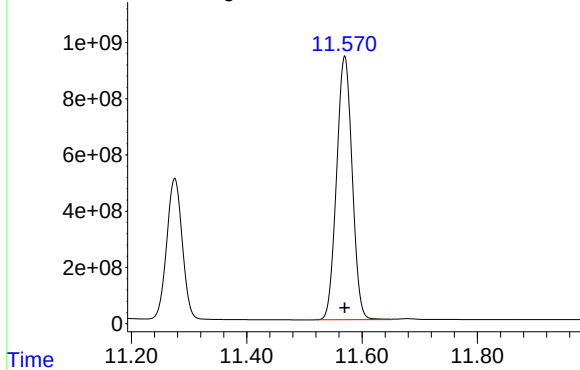
R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 9248385463
Conc: 720.33 ng/ml

Time

Response_

Signal: PS028792.D\ECD1A.ch

#16 DCPA



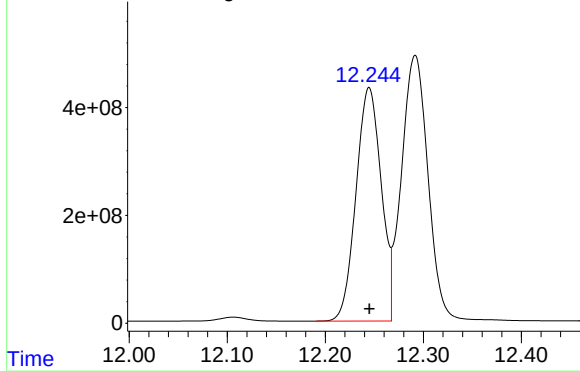
R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 17485864522
Conc: 727.03 ng/ml

Time

Response_

Signal: PS028792.D\ECD2B.ch

#16 DCPA



R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 7736261937
Conc: 720.02 ng/ml

Time



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

Continuing Calib Date: 12/27/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 19:56 Initial Calibration Time(s): 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.21	7.21	7.11	7.31	0.01
2,4-D	8.33	8.33	8.23	8.43	0.01
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

Continuing Calib Date: 12/27/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 19:56 Initial Calibration Time(s): 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL01 Date Analyzed: 12/27/2024

Lab Sample No.: HSTDCCC750 Data File : PS028837.D Time Analyzed: 19:56

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.198	9.106	9.306	789.440	712.500	10.8
2,4-D	8.325	8.232	8.432	737.600	705.000	4.6
2,4-DCAA	7.205	7.110	7.310	805.920	750.000	7.5



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CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL01 Date Analyzed: 12/27/2024

Lab Sample No.: HSTDCCC750 Data File : PS028837.D Time Analyzed: 19:56

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.834	9.742	9.942	729.080	712.500	2.3
2,4-D	8.932	8.840	9.040	705.540	705.000	0.1
2,4-DCAA	7.694	7.600	7.800	754.200	750.000	0.6

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
 Data File : PS028837.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Dec 2024 19:56
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 02:07:17 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 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	7.205	7.694	1823.0E6	848.9E6	805.917	754.195
Target Compounds							
1) T	Dalapon	2.621	2.674	2021.8E6	1314.0E6	717.806	667.487
2) T	3,5-DICHL...	6.381	6.656	2523.1E6	1165.1E6	765.691	702.920
3) T	4-Nitroph...	7.004	7.223	1112.6E6	573.9E6	740.726	685.771
5) T	DICAMBA	7.391	7.891	7755.1E6	3992.2E6	786.471	727.197
6) T	MCPD	7.573	7.996	487.3E6	232.0E6	78.249	70.998
7) T	MCPA	7.722	8.239	661.6E6	323.0E6	75.482	69.722
8) T	DICHLORPROP	8.095	8.604	2033.8E6	991.4E6	766.562	718.570
9) T	2,4-D	8.325	8.932	2101.8E6	1018.2E6	737.599	705.536
10) T	Pentachlo...	8.623	9.457	31445.3E6	16003.3E6	804.907	734.138
11) T	2,4,5-TP ...	9.198	9.834	12401.6E6	6549.7E6	789.439	729.078
12) T	2,4,5-T	9.489	10.252	12657.5E6	6276.1E6	778.006	720.627
13) T	2,4-DB	10.060	10.817	2334.3E6	706.3E6	747.800	727.304
14) T	DINOSEB	11.266	11.195	10250.1E6	4312.1E6	762.560	700.110
15) T	Picloram	11.076	12.282	19880.5E6	9050.5E6	741.456	704.924
16) T	DCPA	11.561	12.235	18496.2E6	7894.9E6	769.039	734.784

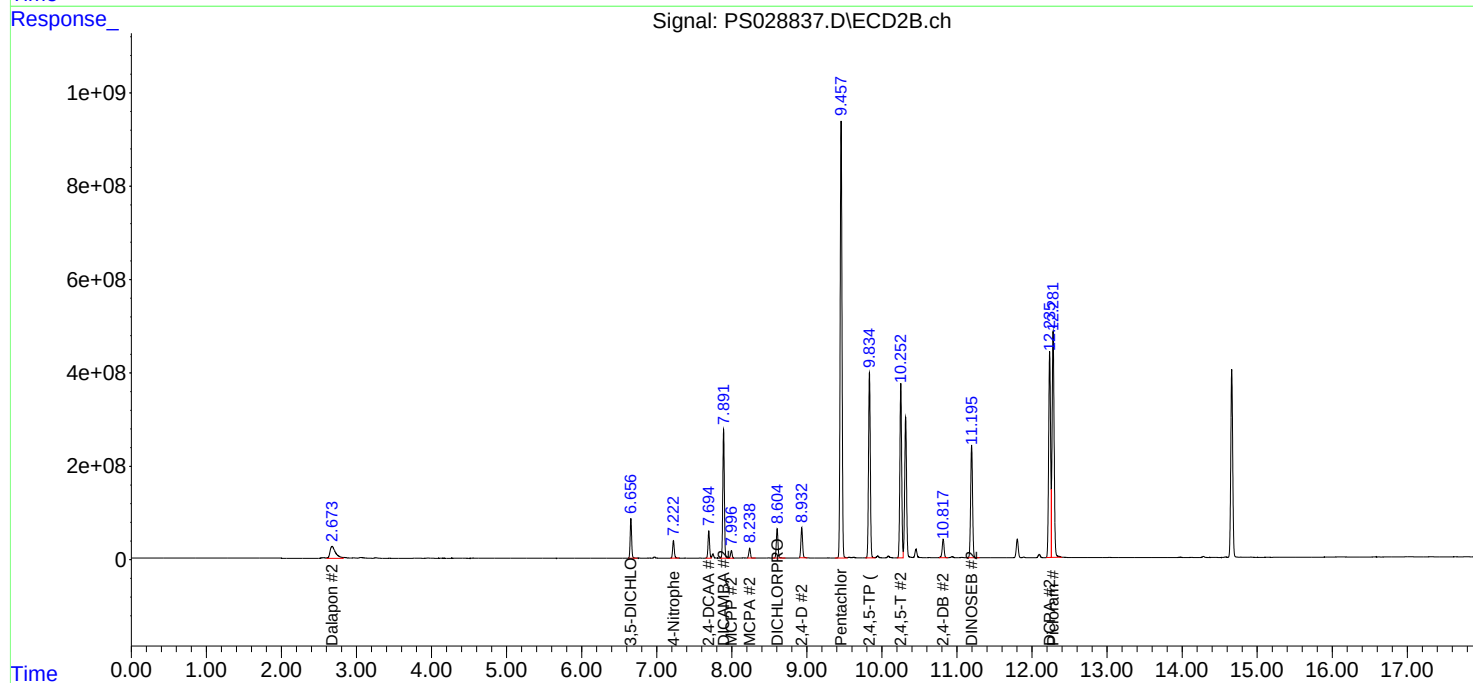
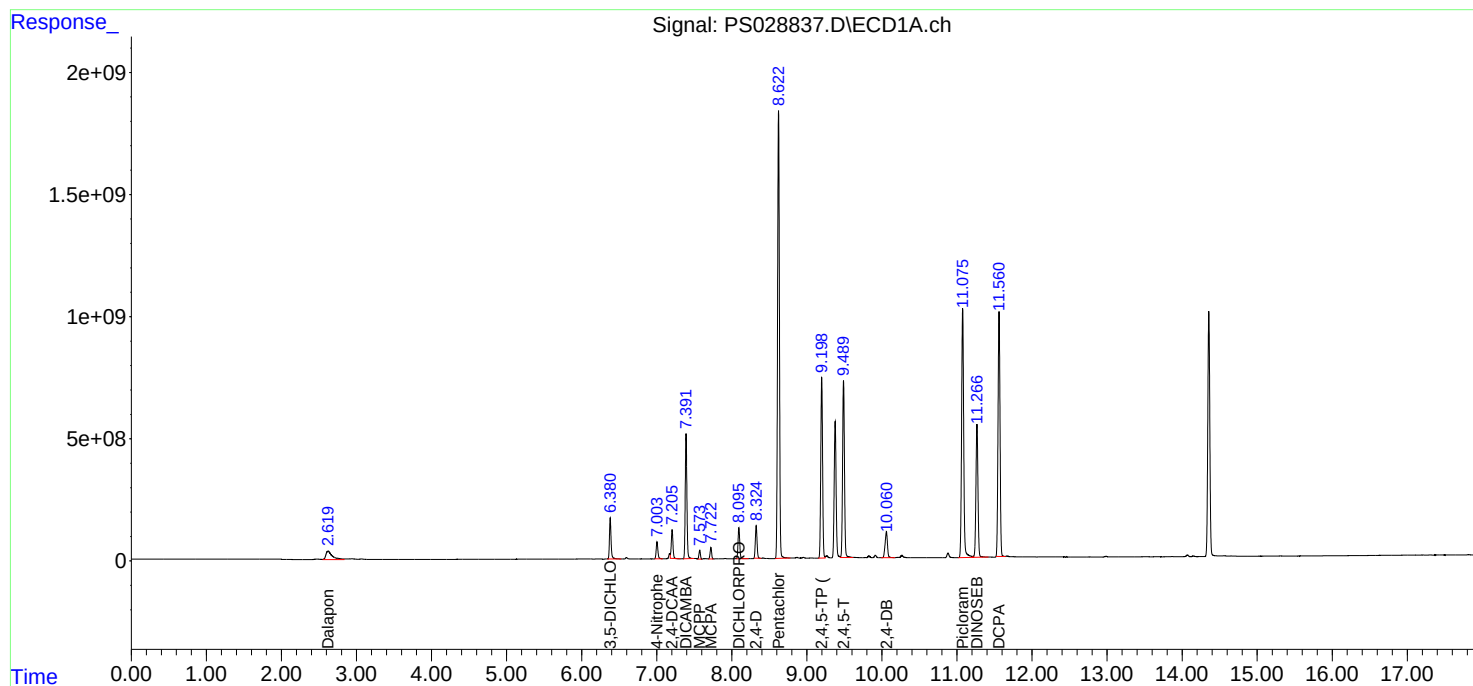
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 19:56
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

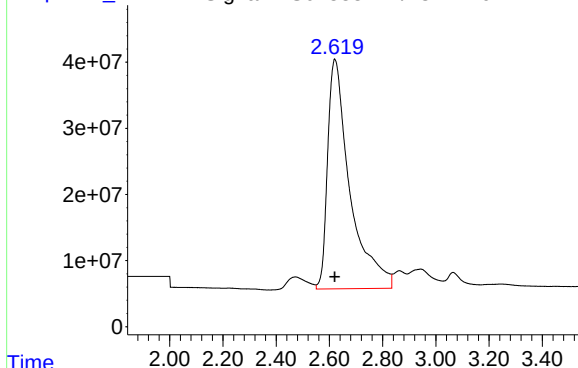
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:07:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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: PS028837.D\ECD1A.ch

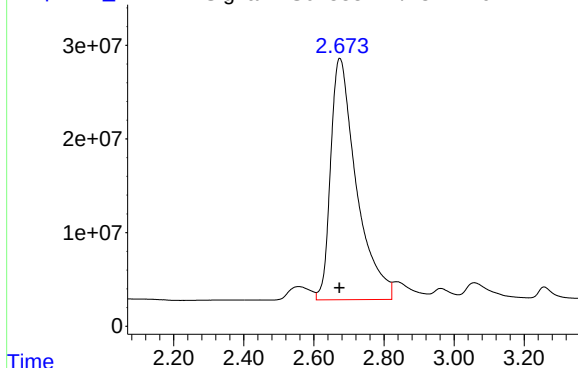


#1 Dalapon

R.T.: 2.621 min
Delta R.T.: 0.000 min
Response: 2021809981
Conc: 717.81 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

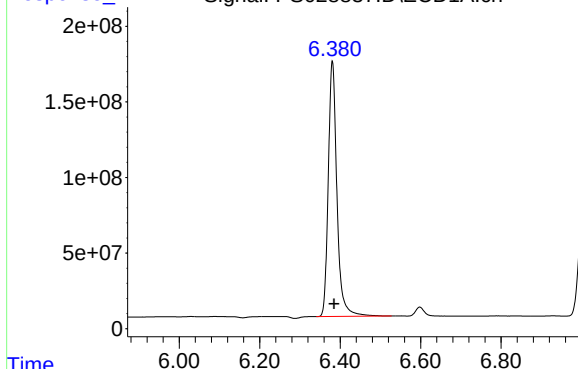
Time Response_ Signal: PS028837.D\ECD2B.ch



#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.000 min
Response: 1314016052
Conc: 667.49 ng/ml

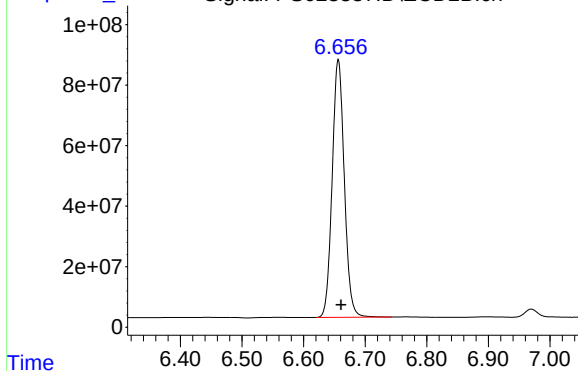
Time Response_ Signal: PS028837.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

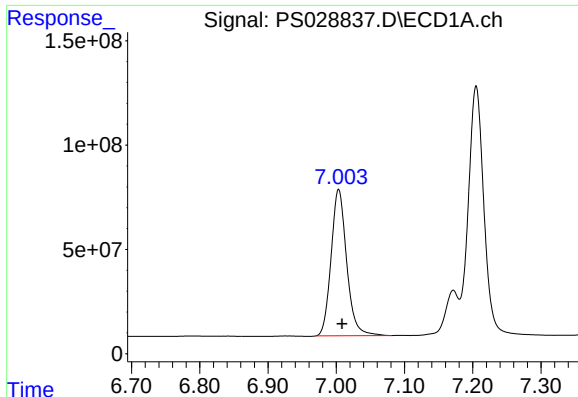
R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 2523056452
Conc: 765.69 ng/ml

Time Response_ Signal: PS028837.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

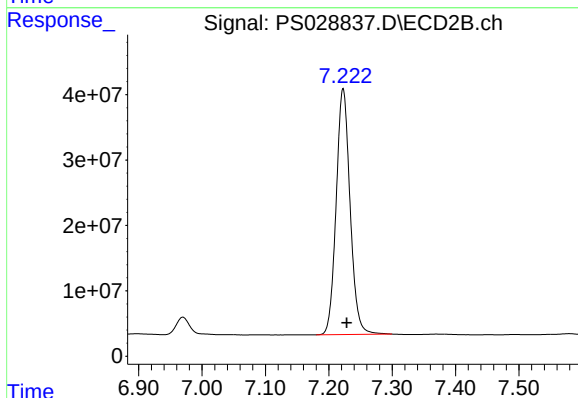
R.T.: 6.656 min
Delta R.T.: -0.004 min
Response: 1165141991
Conc: 702.92 ng/ml



#3 4-Nitrophenol

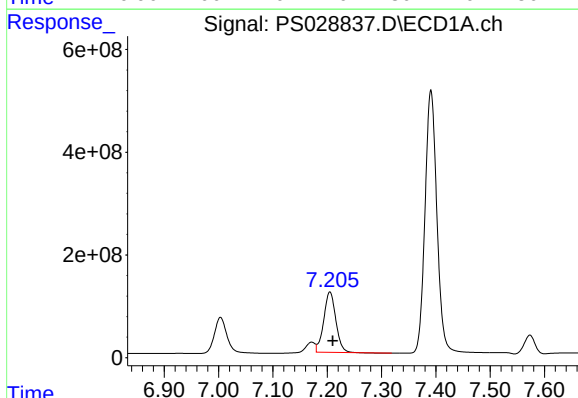
R.T.: 7.004 min
Delta R.T.: -0.005 min
Response: 1112613860
Conc: 740.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



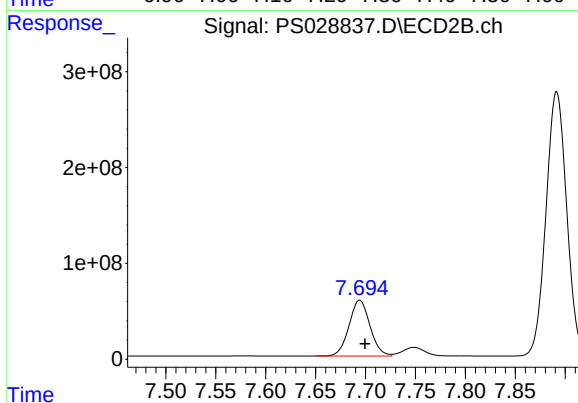
#3 4-Nitrophenol

R.T.: 7.223 min
Delta R.T.: -0.006 min
Response: 573917002
Conc: 685.77 ng/ml



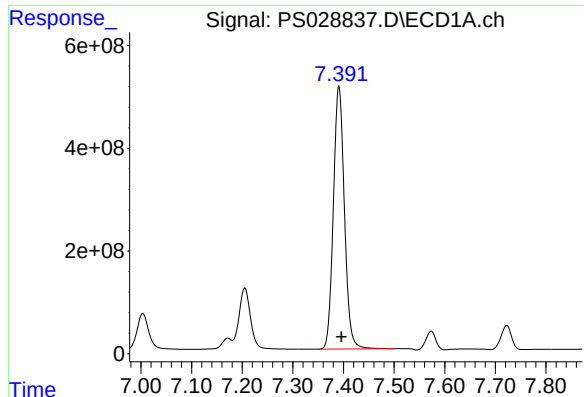
#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.005 min
Response: 1823004184
Conc: 805.92 ng/ml



#4 2,4-DCAA

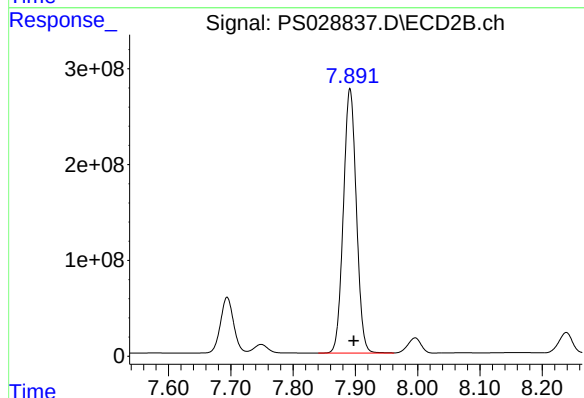
R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 848874911
Conc: 754.20 ng/ml



#5 DICAMBA

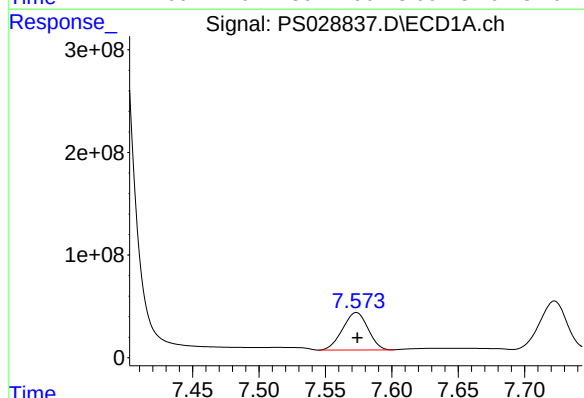
R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 7755114903
Conc: 786.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



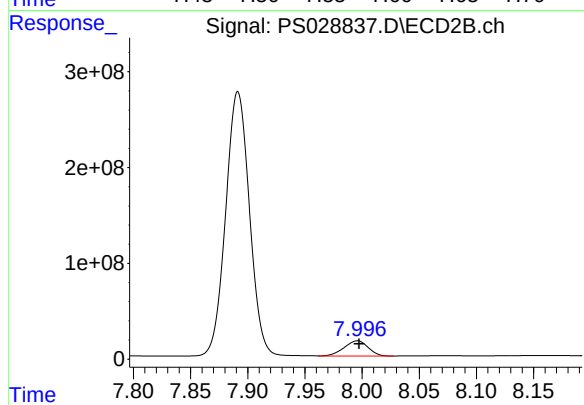
#5 DICAMBA

R.T.: 7.891 min
Delta R.T.: -0.006 min
Response: 3992218261
Conc: 727.20 ng/ml



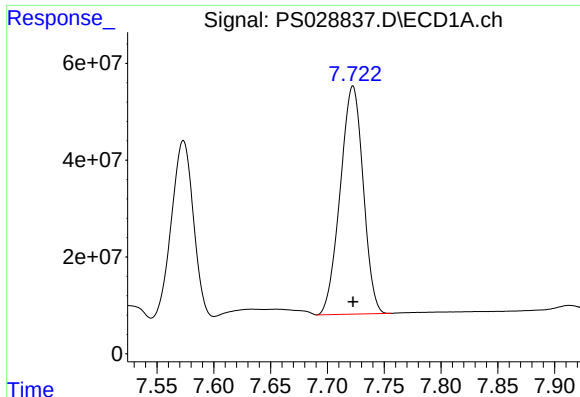
#6 MCP

R.T.: 7.573 min
Delta R.T.: 0.000 min
Response: 487271083
Conc: 78.25 ug/ml



#6 MCP

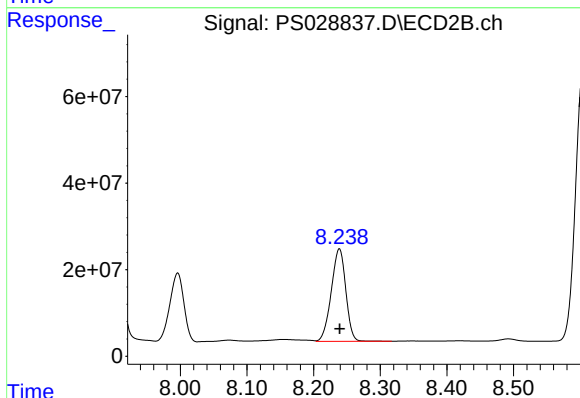
R.T.: 7.996 min
Delta R.T.: -0.001 min
Response: 232006111
Conc: 71.00 ug/ml



#7 MCPA

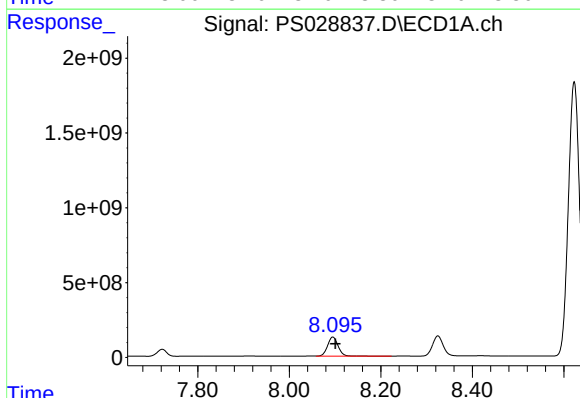
R.T.: 7.722 min
Delta R.T.: 0.000 min
Response: 661632497
Conc: 75.48 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



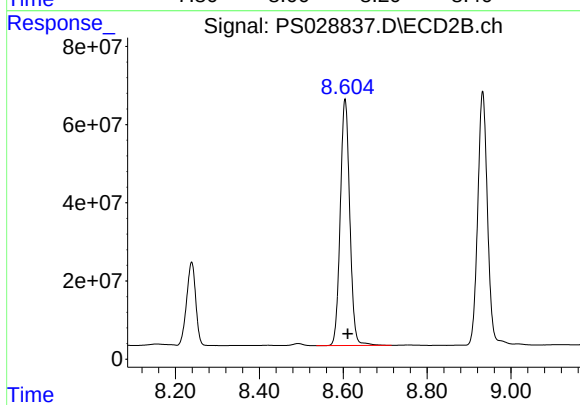
#7 MCPA

R.T.: 8.239 min
Delta R.T.: 0.000 min
Response: 323012865
Conc: 69.72 ug/ml



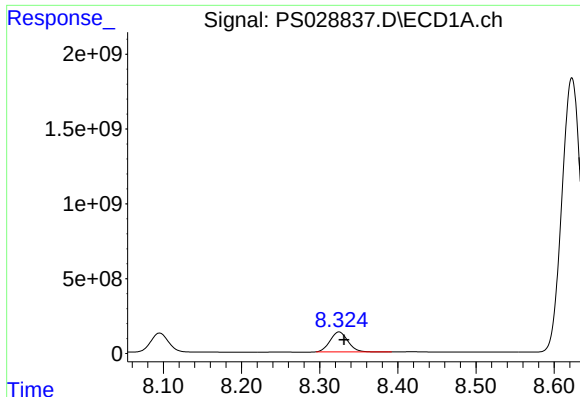
#8 DICHLORPROP

R.T.: 8.095 min
Delta R.T.: -0.006 min
Response: 2033825282
Conc: 766.56 ng/ml



#8 DICHLORPROP

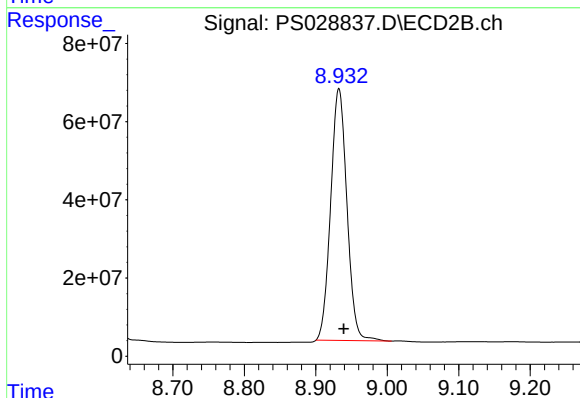
R.T.: 8.604 min
Delta R.T.: -0.007 min
Response: 991380785
Conc: 718.57 ng/ml



#9 2,4-D

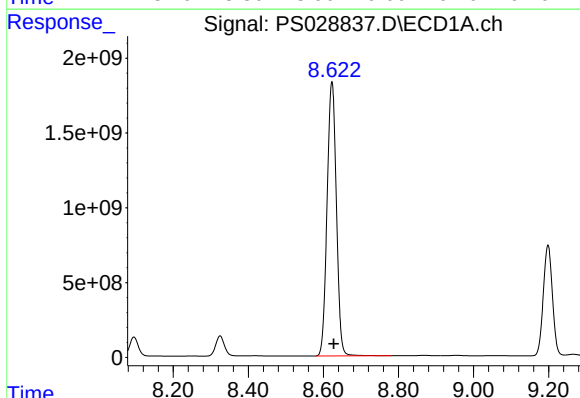
R.T.: 8.325 min
Delta R.T.: -0.006 min
Response: 2101812498
Conc: 737.60 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



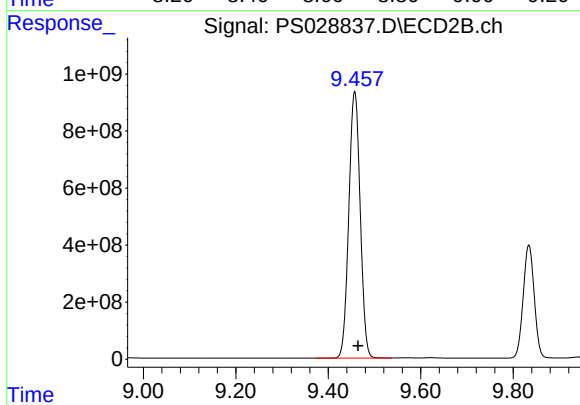
#9 2,4-D

R.T.: 8.932 min
Delta R.T.: -0.007 min
Response: 1018190874
Conc: 705.54 ng/ml



#10 Pentachlorophenol

R.T.: 8.623 min
Delta R.T.: -0.005 min
Response: 31445304592
Conc: 804.91 ng/ml



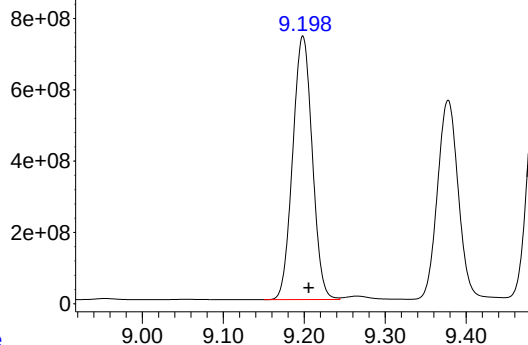
#10 Pentachlorophenol

R.T.: 9.457 min
Delta R.T.: -0.007 min
Response: 16003257047
Conc: 734.14 ng/ml

Response_

Signal: PS028837.D\ECD1A.ch

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



R.T.: 9.198 min
Delta R.T.: -0.007 min
Response: 12401558025
Conc: 789.44 ng/ml

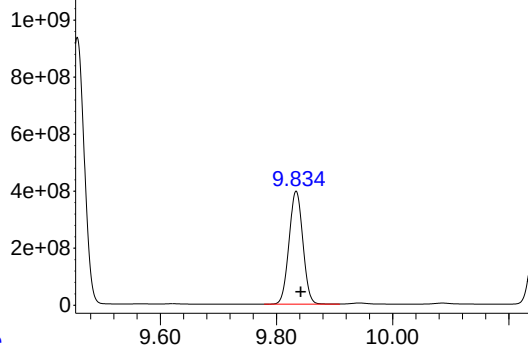
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Time

Response_

Signal: PS028837.D\ECD2B.ch

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



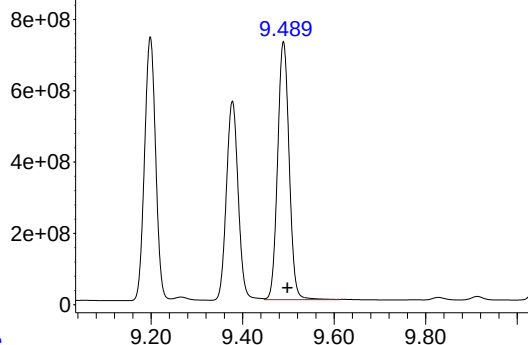
R.T.: 9.834 min
Delta R.T.: -0.008 min
Response: 6549678403
Conc: 729.08 ng/ml

Time

Response_

Signal: PS028837.D\ECD1A.ch

#12 2,4,5-T



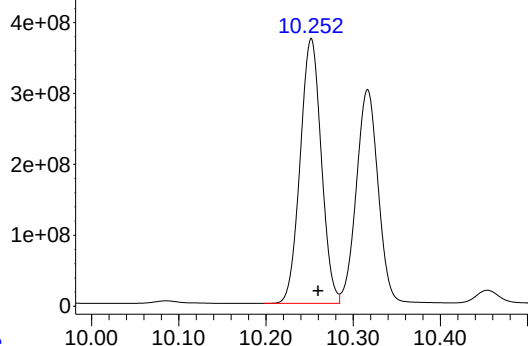
R.T.: 9.489 min
Delta R.T.: -0.008 min
Response: 12657532218
Conc: 778.01 ng/ml

Time

Response_

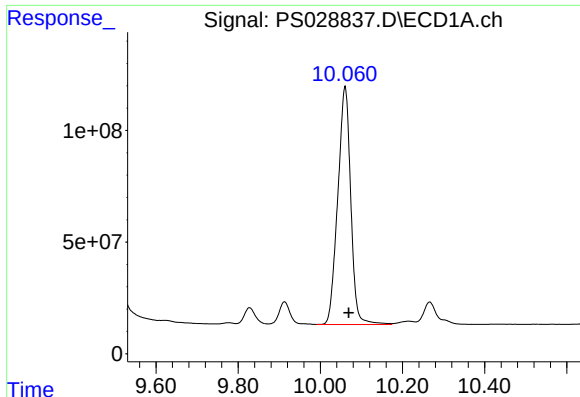
Signal: PS028837.D\ECD2B.ch

#12 2,4,5-T



R.T.: 10.252 min
Delta R.T.: -0.008 min
Response: 6276071604
Conc: 720.63 ng/ml

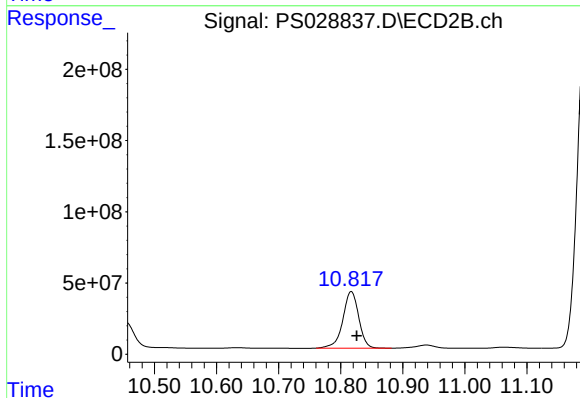
Time



#13 2,4-DB

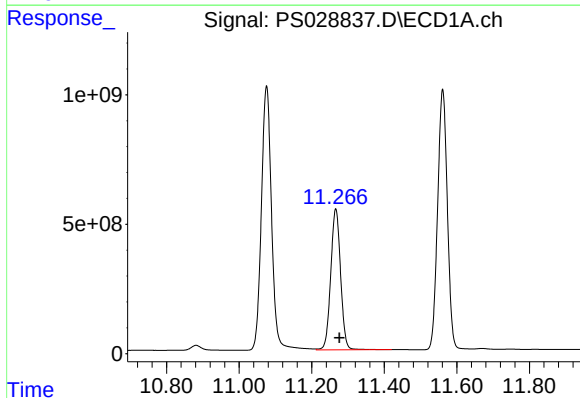
R.T.: 10.060 min
Delta R.T.: -0.009 min
Response: 2334331513
Conc: 747.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



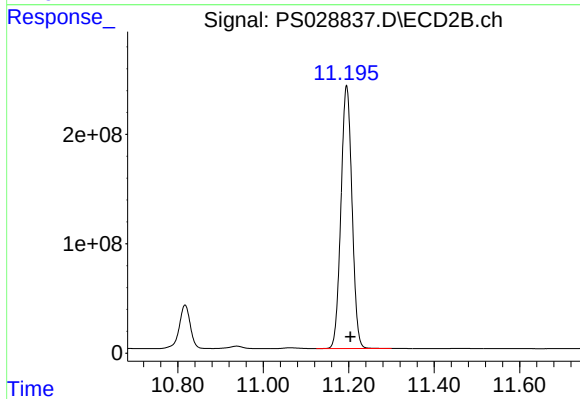
#13 2,4-DB

R.T.: 10.817 min
Delta R.T.: -0.009 min
Response: 706282910
Conc: 727.30 ng/ml



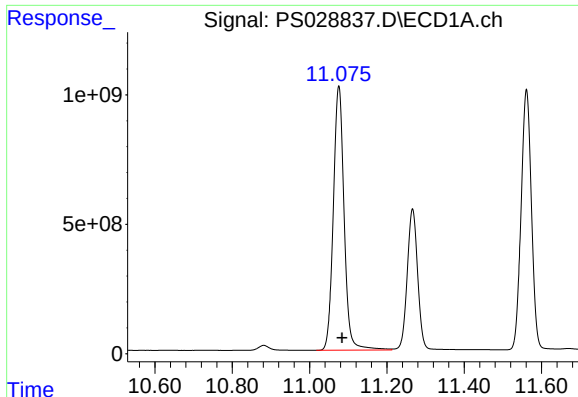
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 10250127834
Conc: 762.56 ng/ml



#14 DINOSEB

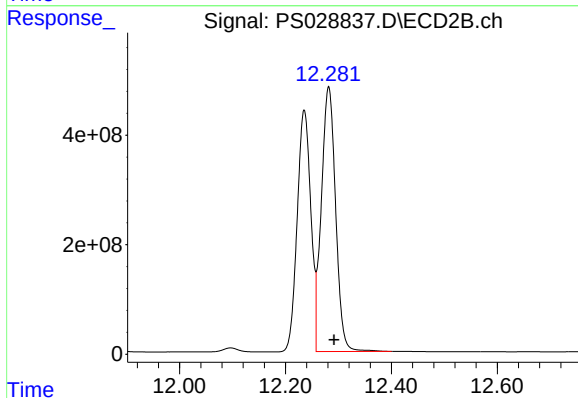
R.T.: 11.195 min
Delta R.T.: -0.009 min
Response: 4312076929
Conc: 700.11 ng/ml



#15 Picloram

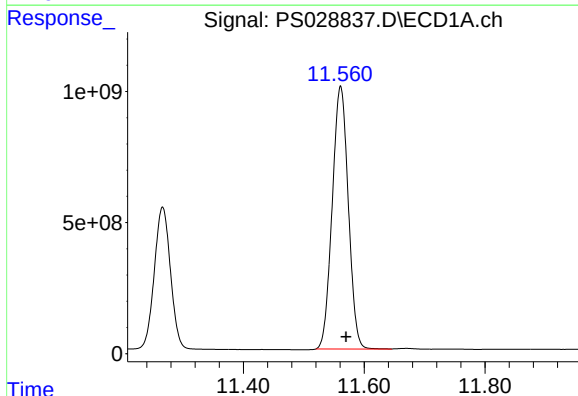
R.T.: 11.076 min
Delta R.T.: -0.009 min
Response: 19880476701
Conc: 741.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



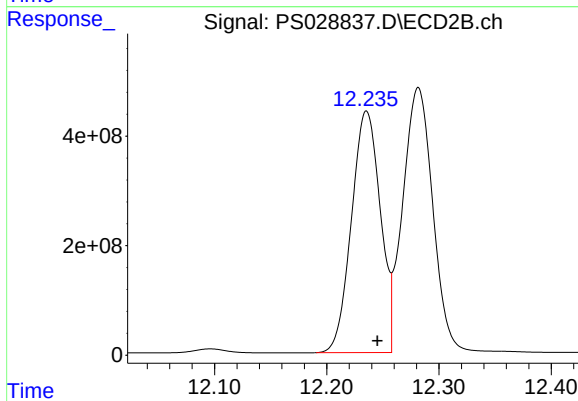
#15 Picloram

R.T.: 12.282 min
Delta R.T.: -0.010 min
Response: 9050534614
Conc: 704.92 ng/ml



#16 DCPA

R.T.: 11.561 min
Delta R.T.: -0.009 min
Response: 18496187825
Conc: 769.04 ng/ml



#16 DCPA

R.T.: 12.235 min
Delta R.T.: -0.010 min
Response: 7894945231
Conc: 734.78 ng/ml



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

Continuing Calib Date: 12/28/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 00:19 Initial Calibration Time(s): 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.21	7.21	7.11	7.31	0.01
2,4-D	8.32	8.33	8.23	8.43	0.01
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

Continuing Calib Date: 12/28/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 00:19 Initial Calibration Time(s): 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL02 Date Analyzed: 12/28/2024

Lab Sample No.: HSTDCCC750 Data File : PS028846.D Time Analyzed: 00:19

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.198	9.106	9.306	801.390	712.500	12.5
2,4-D	8.324	8.232	8.432	742.400	705.000	5.3
2,4-DCAA	7.205	7.110	7.310	815.240	750.000	8.7



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CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL02 Date Analyzed: 12/28/2024

Lab Sample No.: HSTDCCC750 Data File : PS028846.D Time Analyzed: 00:19

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.833	9.742	9.942	739.050	712.500	3.7
2,4-D	8.931	8.840	9.040	707.040	705.000	0.3
2,4-DCAA	7.693	7.600	7.800	763.530	750.000	1.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
 Data File : PS028846.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2024 00:19
 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: Dec 28 02:09:21 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 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	7.205	7.693	1844.1E6	859.4E6	815.237	763.534
Target Compounds							
1) T	Dalapon	2.619	2.674	2016.2E6	1312.1E6	715.797	666.506
2) T	3,5-DICHL...	6.381	6.656	2554.1E6	1182.1E6	775.111	713.173
3) T	4-Nitroph...	7.003	7.222	1120.8E6	580.9E6	746.192	694.099
5) T	DICAMBA	7.391	7.891	7835.7E6	4042.9E6	794.647	736.431
6) T	MCPD	7.573	7.995	493.7E6	235.0E6	79.274	71.899
7) T	MCPA	7.722	8.238	671.9E6	327.1E6	76.651	70.605
8) T	DICHLORPROP	8.095	8.603	2070.5E6	1006.5E6	780.394	729.547
9) T	2,4-D	8.324	8.931	2115.5E6	1020.4E6	742.397	707.040
10) T	Pentachlo...	8.622	9.456	31922.3E6	16214.7E6	817.116	743.835
11) T	2,4,5-TP ...	9.198	9.833	12589.3E6	6639.3E6	801.389	739.054
12) T	2,4,5-T	9.489	10.251	12828.7E6	6359.2E6	788.528	730.170
13) T	2,4-DB	10.060	10.816	2353.0E6	715.8E6	753.774	737.148
14) T	DINOSEB	11.266	11.194	10264.4E6	4243.0E6	763.620	688.898
15) T	Picloram	11.074	12.280	19971.2E6	9034.0E6	744.840	703.633
16) T	DCPA	11.560	12.234	18949.7E6	8027.1E6	787.895	747.082

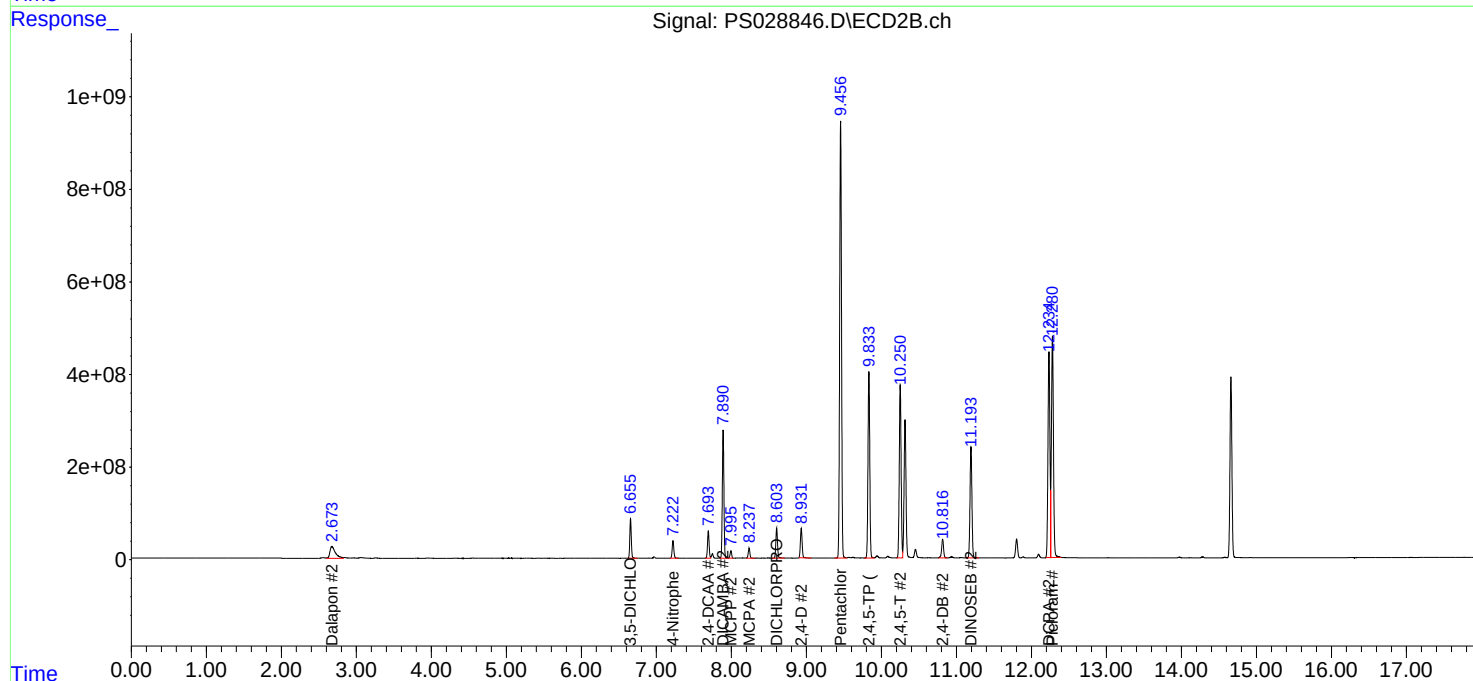
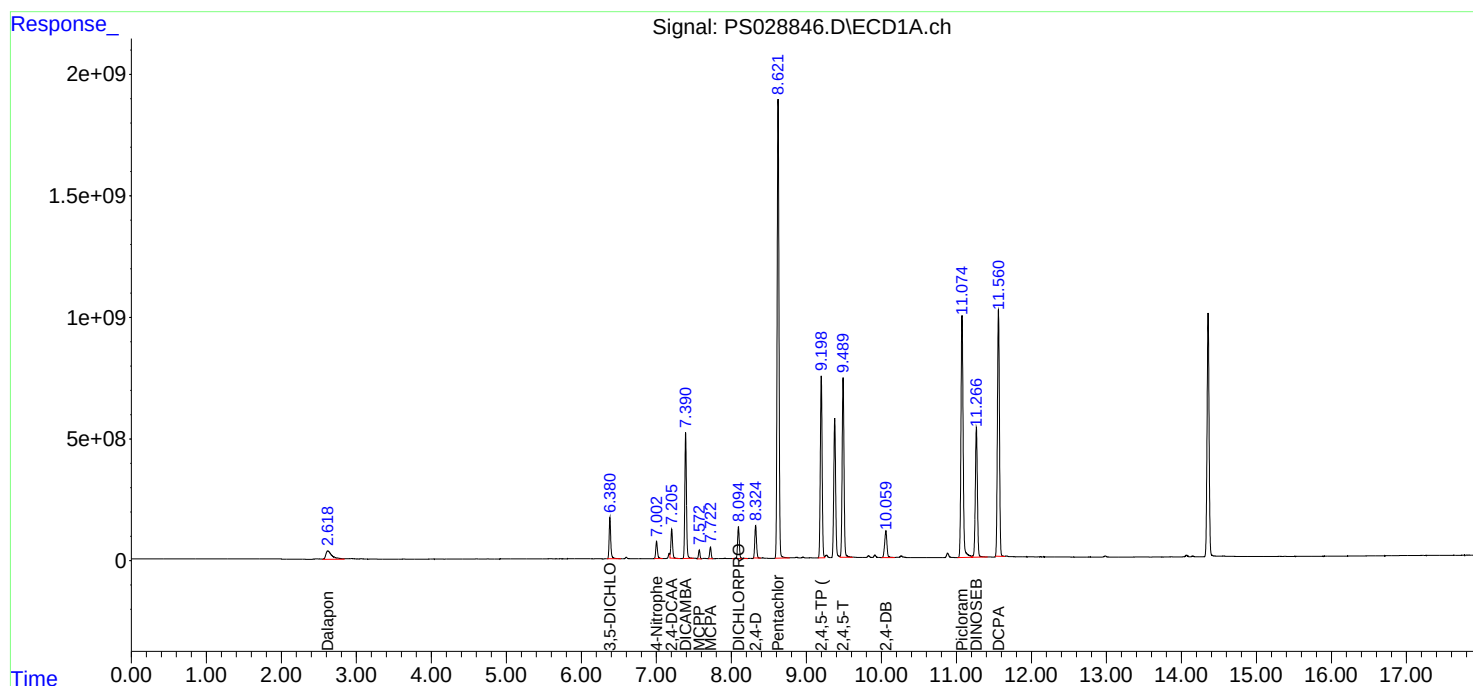
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028846.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Dec 2024 00:19
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

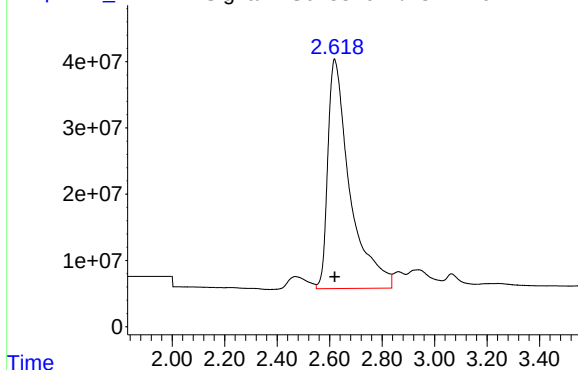
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:09:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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: PS028846.D\ECD1A.ch

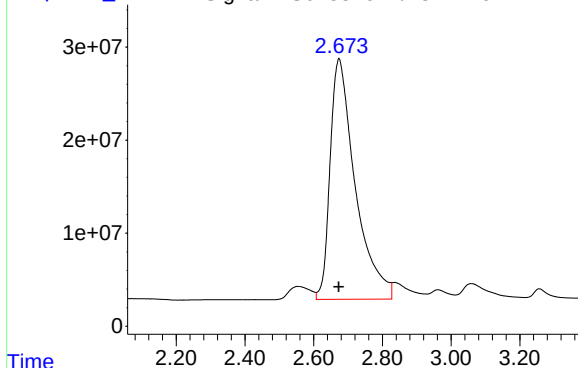


#1 Dalapon

R.T.: 2.619 min
Delta R.T.: -0.001 min
Response: 2016150998
Conc: 715.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

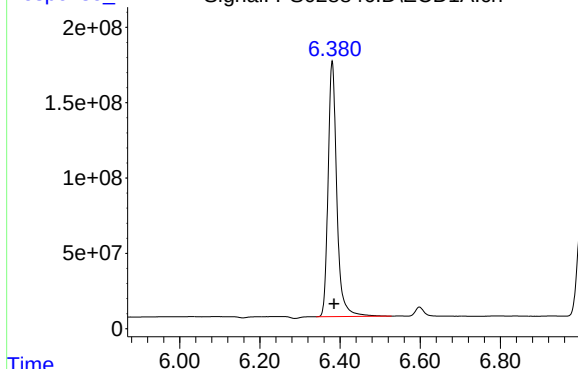
Response_ Signal: PS028846.D\ECD2B.ch



#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.001 min
Response: 1312084335
Conc: 666.51 ng/ml

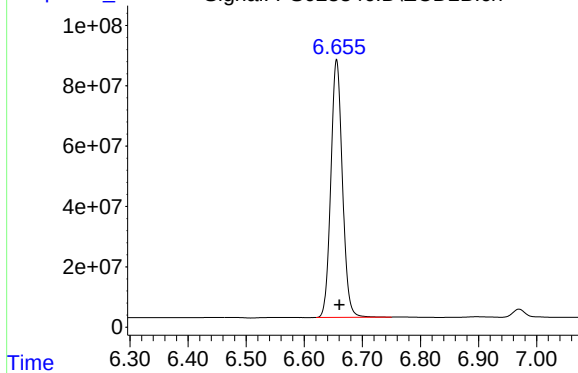
Response_ Signal: PS028846.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

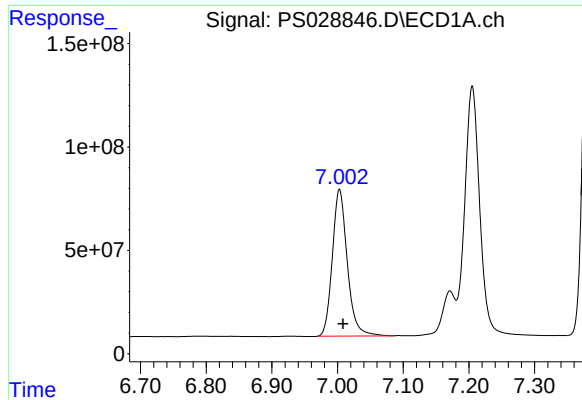
R.T.: 6.381 min
Delta R.T.: -0.005 min
Response: 2554094491
Conc: 775.11 ng/ml

Response_ Signal: PS028846.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

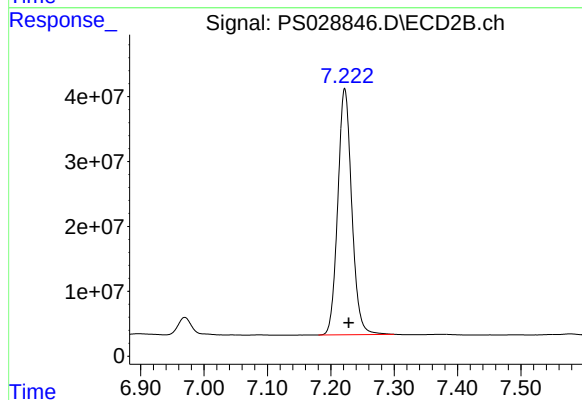
R.T.: 6.656 min
Delta R.T.: -0.005 min
Response: 1182136096
Conc: 713.17 ng/ml



#3 4-Nitrophenol

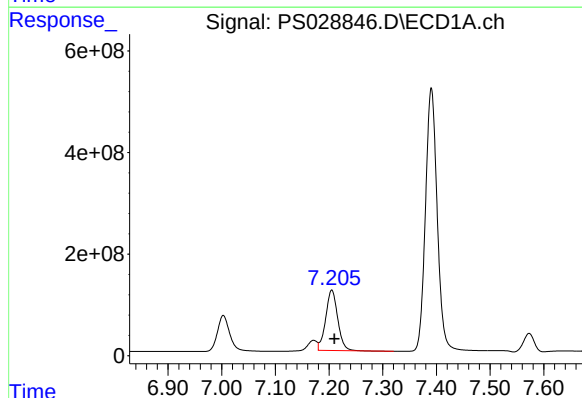
R.T.: 7.003 min
Delta R.T.: -0.005 min
Response: 1120823047
Conc: 746.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



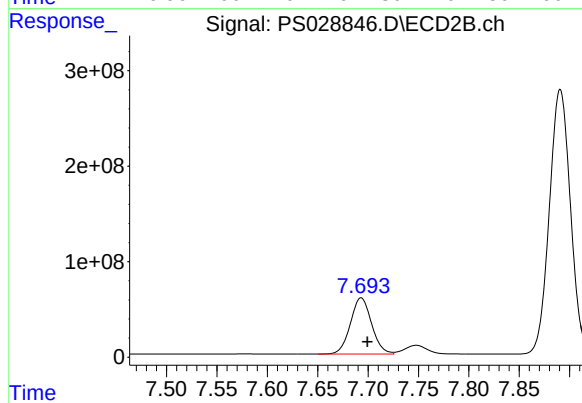
#3 4-Nitrophenol

R.T.: 7.222 min
Delta R.T.: -0.006 min
Response: 580886669
Conc: 694.10 ng/ml



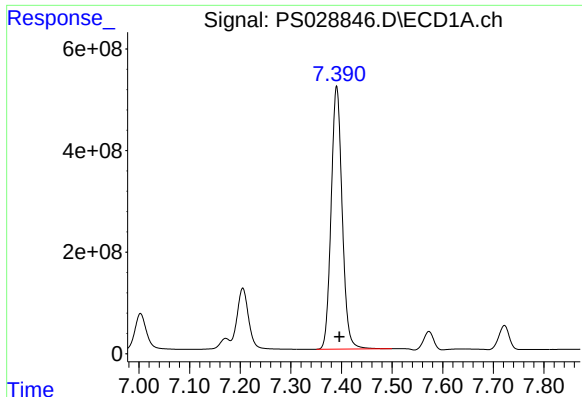
#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.005 min
Response: 1844086438
Conc: 815.24 ng/ml



#4 2,4-DCAA

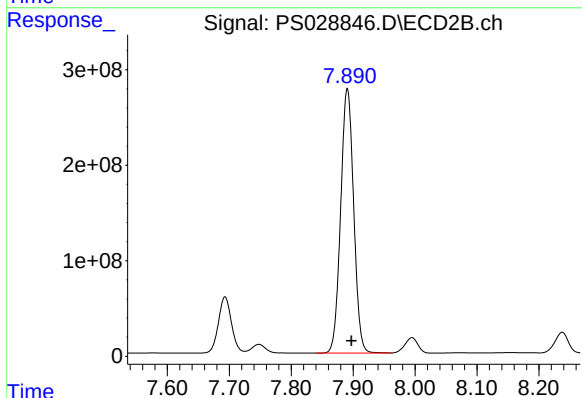
R.T.: 7.693 min
Delta R.T.: -0.006 min
Response: 859386355
Conc: 763.53 ng/ml



#5 DICAMBA

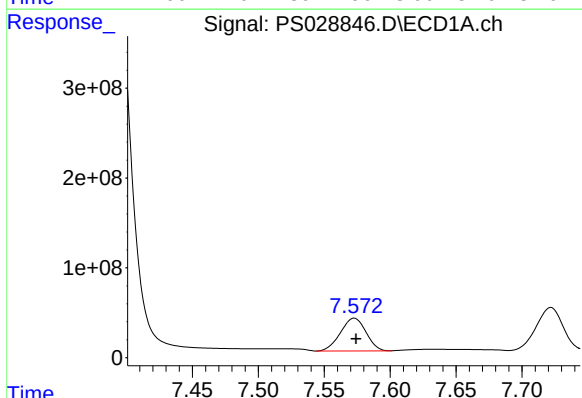
R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 7835732234
Conc: 794.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



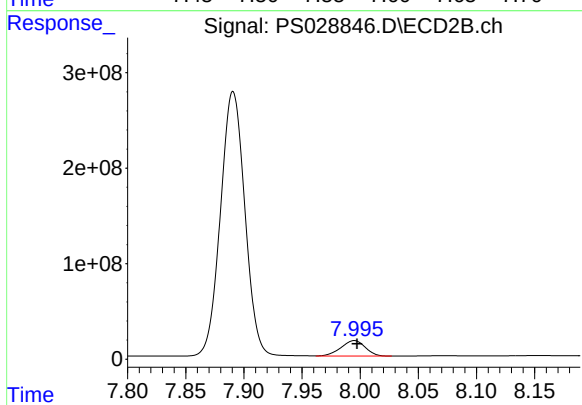
#5 DICAMBA

R.T.: 7.891 min
Delta R.T.: -0.007 min
Response: 4042909319
Conc: 736.43 ng/ml



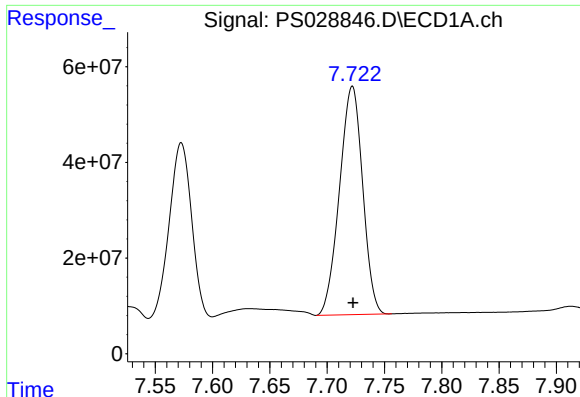
#6 MCP

R.T.: 7.573 min
Delta R.T.: -0.001 min
Response: 493658737
Conc: 79.27 ug/ml



#6 MCP

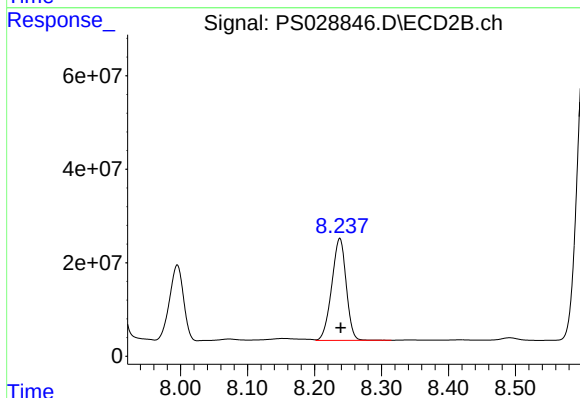
R.T.: 7.995 min
Delta R.T.: -0.002 min
Response: 234951176
Conc: 71.90 ug/ml



#7 MCPA

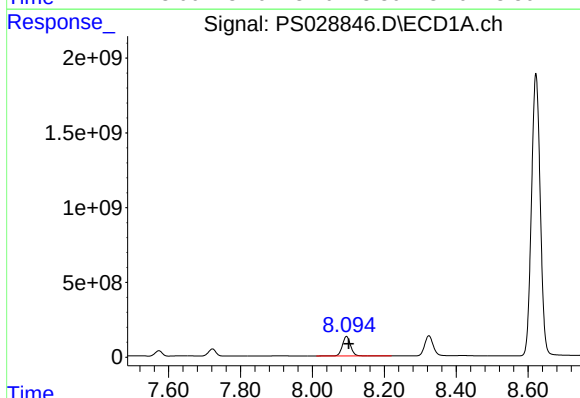
R.T.: 7.722 min
Delta R.T.: 0.000 min
Response: 671881480
Conc: 76.65 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



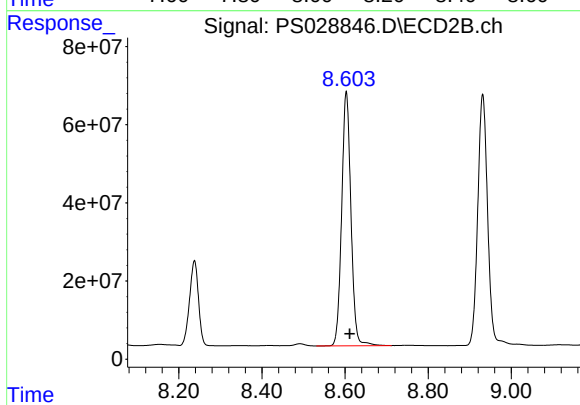
#7 MCPA

R.T.: 8.238 min
Delta R.T.: -0.002 min
Response: 327101411
Conc: 70.60 ug/ml



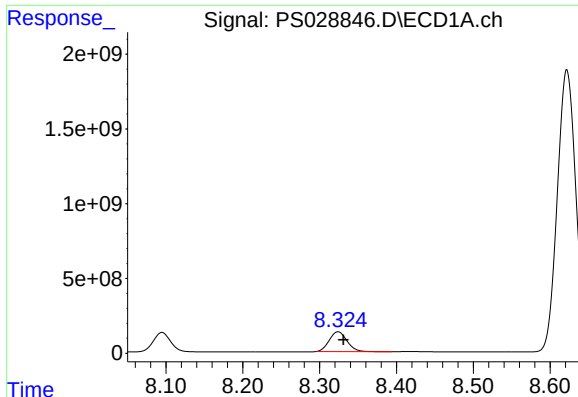
#8 DICHLORPROP

R.T.: 8.095 min
Delta R.T.: -0.006 min
Response: 2070523232
Conc: 780.39 ng/ml



#8 DICHLORPROP

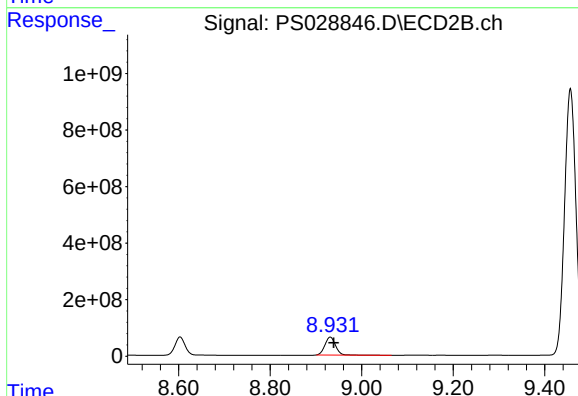
R.T.: 8.603 min
Delta R.T.: -0.008 min
Response: 1006525517
Conc: 729.55 ng/ml



#9 2,4-D

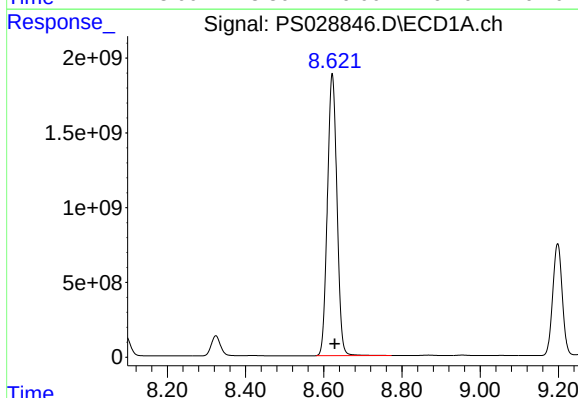
R.T.: 8.324 min
Delta R.T.: -0.007 min
Response: 2115485746
Conc: 742.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



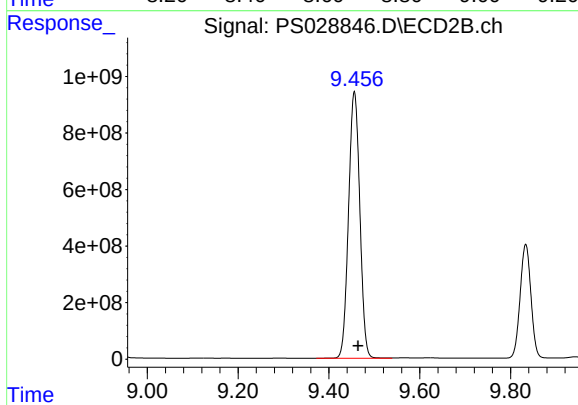
#9 2,4-D

R.T.: 8.931 min
Delta R.T.: -0.008 min
Response: 1020361636
Conc: 707.04 ng/ml



#10 Pentachlorophenol

R.T.: 8.622 min
Delta R.T.: -0.006 min
Response: 31922279660
Conc: 817.12 ng/ml



#10 Pentachlorophenol

R.T.: 9.456 min
Delta R.T.: -0.008 min
Response: 16214656545
Conc: 743.84 ng/ml

Response_

Signal: PS028846.D\ECD1A.ch

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

R.T.: 9.198 min

Delta R.T.: -0.007 min

Response: 12589280013

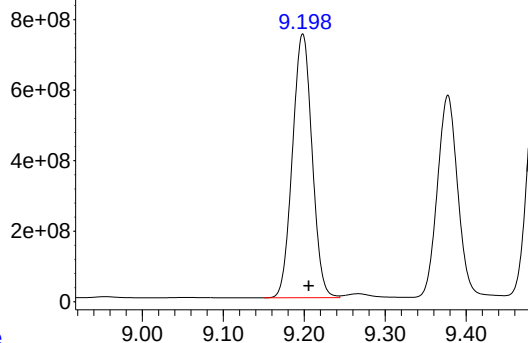
Conc: 801.39 ng/ml

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750



Time

Response_

Signal: PS028846.D\ECD2B.ch

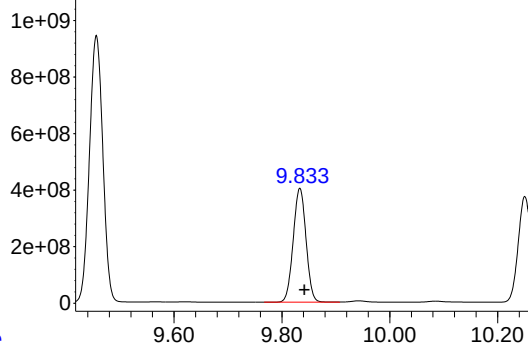
#11 2,4,5-TP (SILVEX)

R.T.: 9.833 min

Delta R.T.: -0.008 min

Response: 6639302617

Conc: 739.05 ng/ml



Time

Response_

Signal: PS028846.D\ECD1A.ch

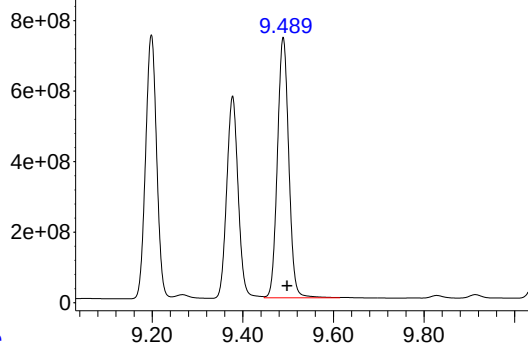
#12 2,4,5-T

R.T.: 9.489 min

Delta R.T.: -0.009 min

Response: 12828706053

Conc: 788.53 ng/ml



Time

Response_

Signal: PS028846.D\ECD2B.ch

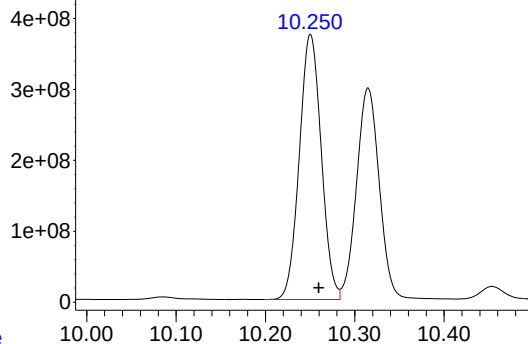
#12 2,4,5-T

R.T.: 10.251 min

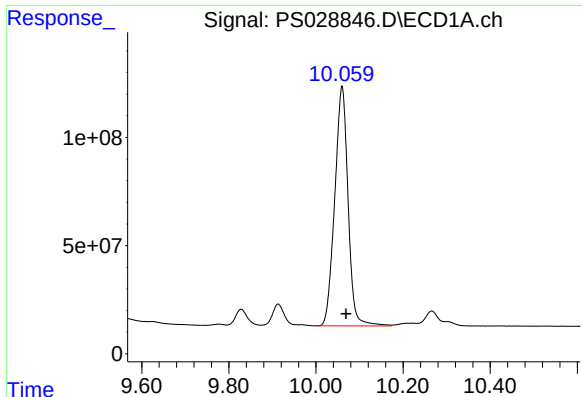
Delta R.T.: -0.009 min

Response: 6359186708

Conc: 730.17 ng/ml



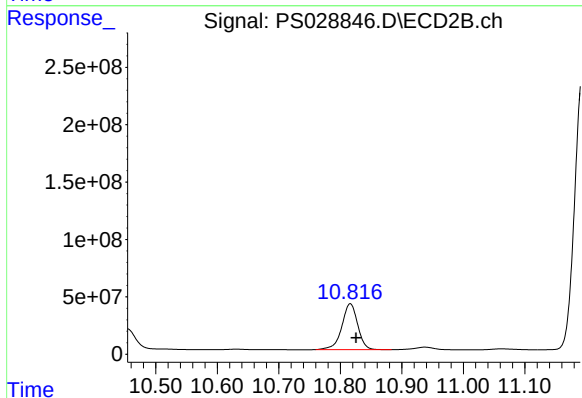
Time



#13 2,4-DB

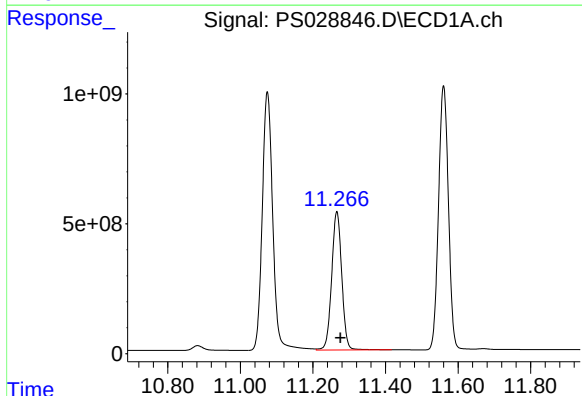
R.T.: 10.060 min
Delta R.T.: -0.010 min
Response: 2352980062
Conc: 753.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



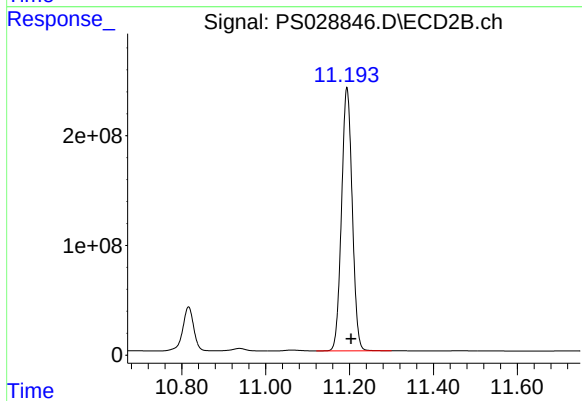
#13 2,4-DB

R.T.: 10.816 min
Delta R.T.: -0.010 min
Response: 715842906
Conc: 737.15 ng/ml



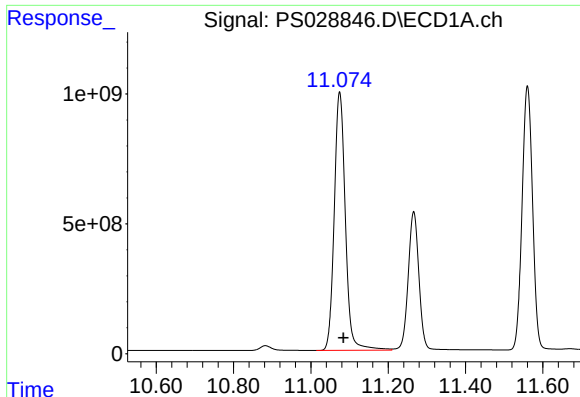
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 10264370845
Conc: 763.62 ng/ml



#14 DINOSEB

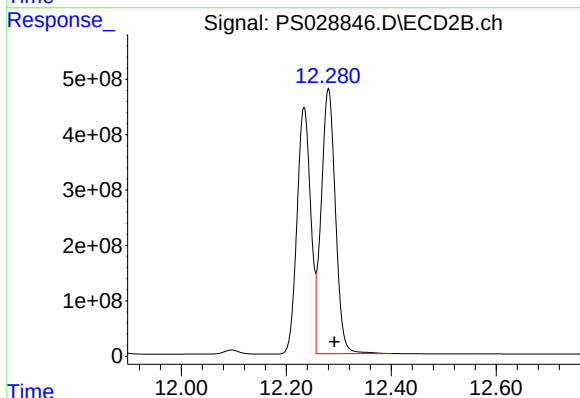
R.T.: 11.194 min
Delta R.T.: -0.010 min
Response: 4243022275
Conc: 688.90 ng/ml



#15 Picloram

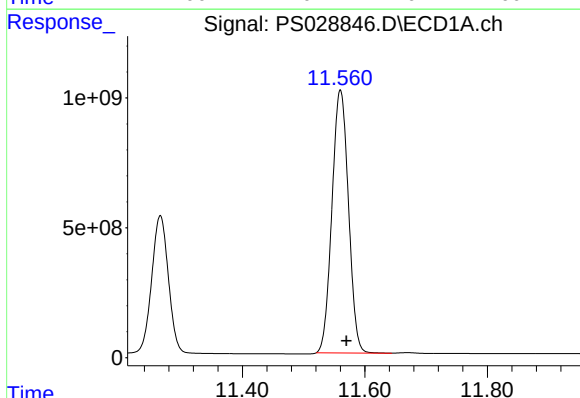
R.T.: 11.074 min
Delta R.T.: -0.010 min
Response: 19971234302
Conc: 744.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



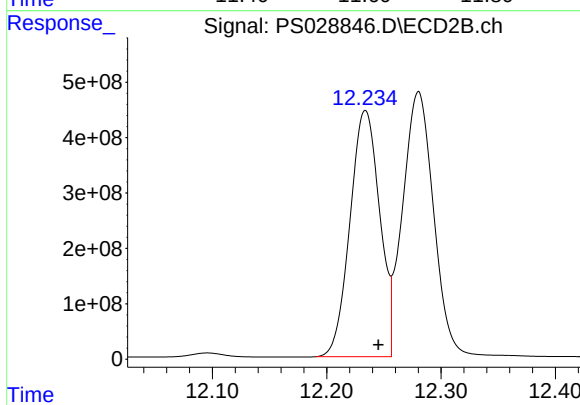
#15 Picloram

R.T.: 12.280 min
Delta R.T.: -0.012 min
Response: 9033961143
Conc: 703.63 ng/ml



#16 DCPA

R.T.: 11.560 min
Delta R.T.: -0.010 min
Response: 18949683331
Conc: 787.89 ng/ml



#16 DCPA

R.T.: 12.234 min
Delta R.T.: -0.011 min
Response: 8027077081
Conc: 747.08 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

Continuing Calib Date: 12/31/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 08:59 Initial Calibration Time(s): 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

Continuing Calib Date: 12/31/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 08:59 Initial Calibration Time(s): 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL03 Date Analyzed: 12/31/2024

Lab Sample No.: HSTDCCC750 Data File : PS028862.D Time Analyzed: 08:59

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.201	9.106	9.306	765.240	712.500	7.4
2,4-D	8.327	8.232	8.432	742.010	705.000	5.2
2,4-DCAA	7.207	7.110	7.310	790.330	750.000	5.4



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

CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL03 Date Analyzed: 12/31/2024

Lab Sample No.: HSTDCCC750 Data File : PS028862.D Time Analyzed: 08:59

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.828	9.742	9.942	678.000	712.500	-4.8
2,4-D	8.928	8.840	9.040	660.870	705.000	-6.3
2,4-DCAA	7.690	7.600	7.800	691.610	750.000	-7.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
 Data File : PS028862.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Dec 2024 08:59
 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: Jan 01 00:24:48 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 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	7.207	7.690	1787.7E6	778.4E6	790.328m	691.612
Target Compounds							
1) T	Dalapon	2.620	2.672	1939.8E6	1304.7E6	688.705	662.780
2) T	3,5-DICHL...	6.383	6.653	2439.0E6	1071.1E6	740.194	646.181
3) T	4-Nitroph...	7.006	7.219	1060.8E6	530.3E6	706.227	633.597
5) T	DICAMBA	7.393	7.887	7469.3E6	3669.1E6	757.487	668.348
6) T	MCPD	7.575	7.991	460.9E6	214.4E6	74.007	65.624
7) T	MCPA	7.724	8.233	627.0E6	297.7E6	71.533	64.253
8) T	DICHLORPROP	8.098	8.600	1973.8E6	916.2E6	743.937	664.047
9) T	2,4-D	8.327	8.928	2114.4E6	953.7E6	742.006m	660.874m
10) T	Pentachlo...	8.624	9.452	30444.1E6	14903.4E6	779.278	683.683
11) T	2,4,5-TP ...	9.201	9.828	12021.4E6	6090.8E6	765.243	677.996
12) T	2,4,5-T	9.493	10.246	12262.5E6	5794.2E6	753.725	665.298
13) T	2,4-DB	10.063	10.811	2237.7E6	639.7E6	716.851	658.688
14) T	DINOSEB	11.268	11.189	9950.1E6	3955.8E6	740.241	642.256
15) T	Picloram	11.079	12.274	19443.5E6	8346.8E6	725.159	650.113
16) T	DCPA	11.563	12.228	18209.2E6	7336.4E6	757.108	682.802m

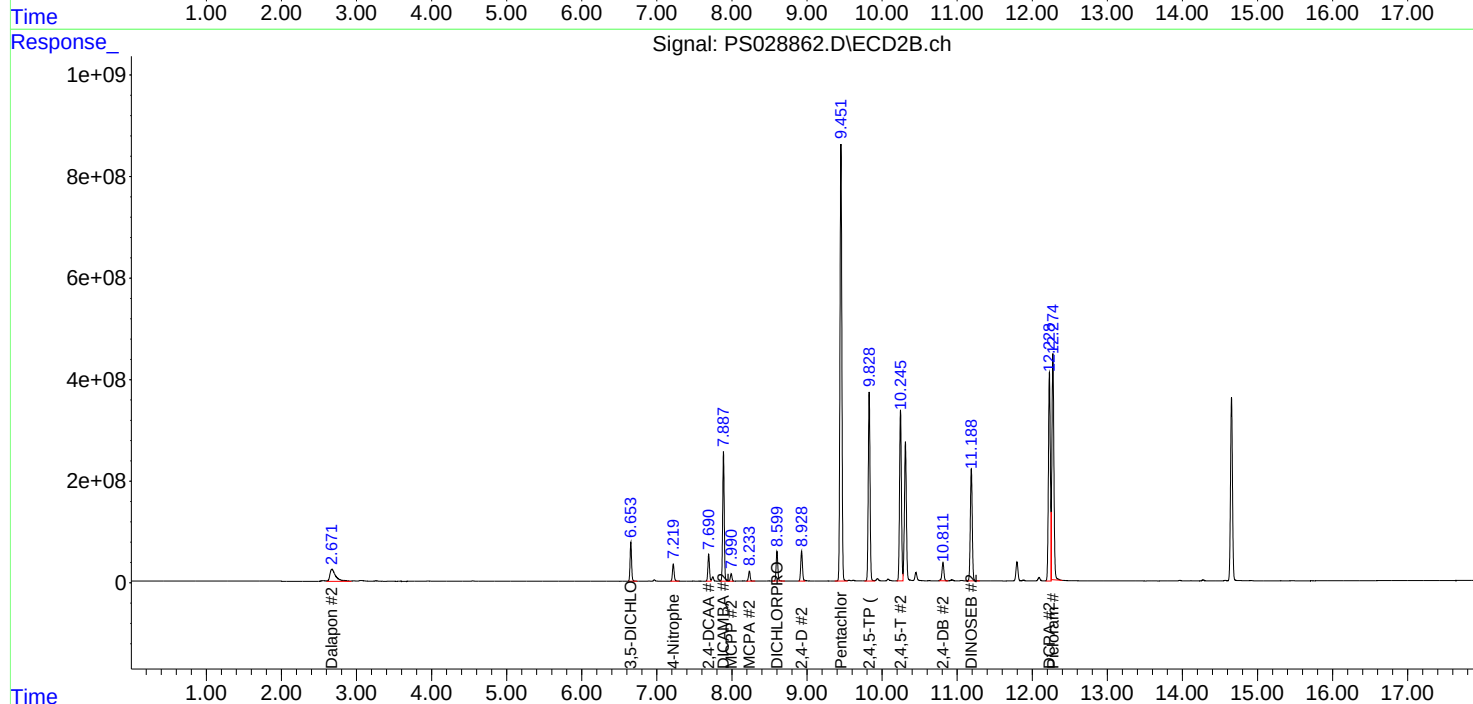
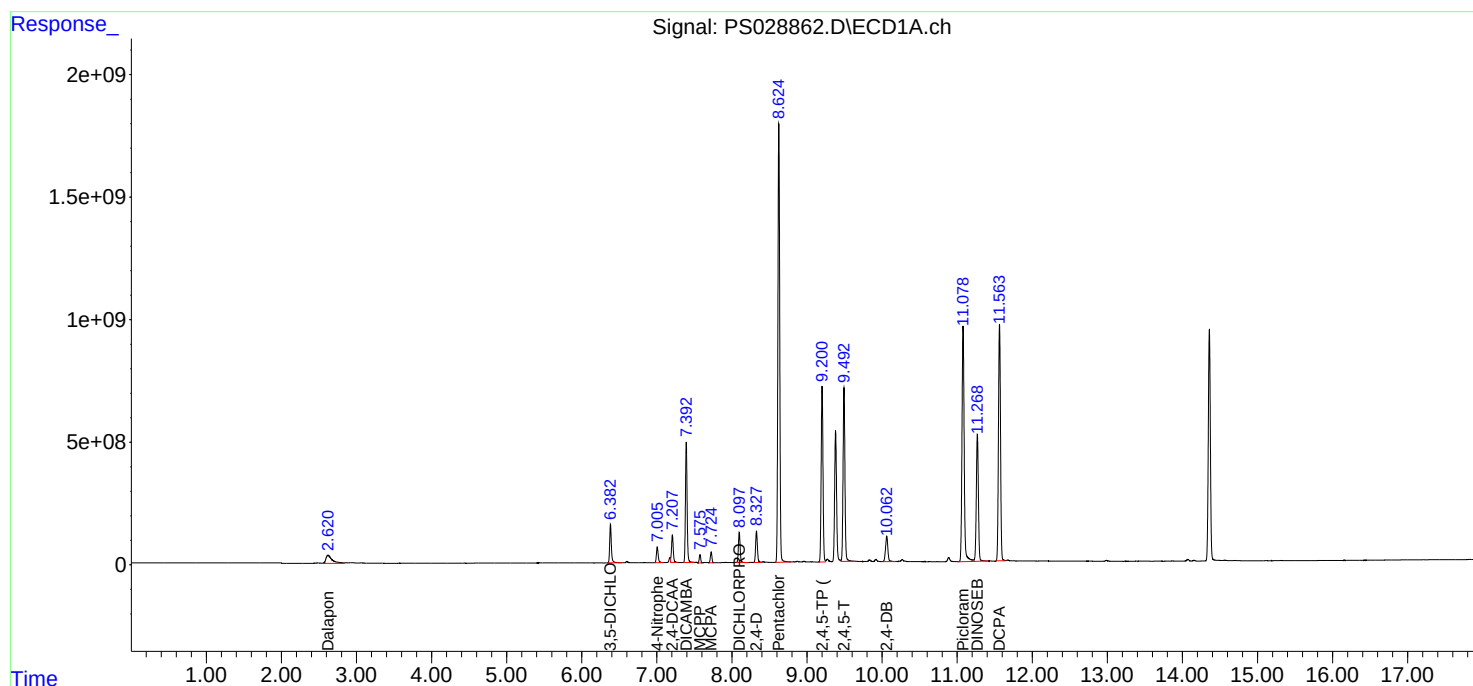
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

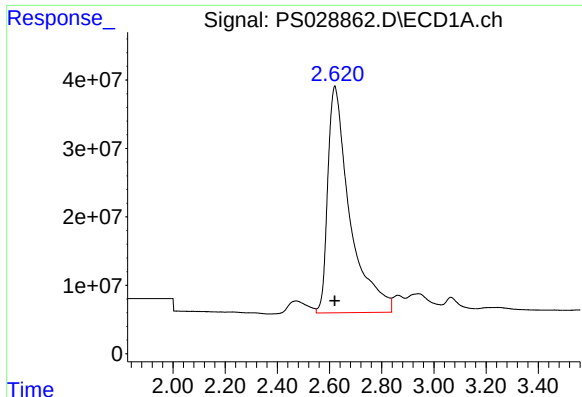
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028862.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 08:59
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:24:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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

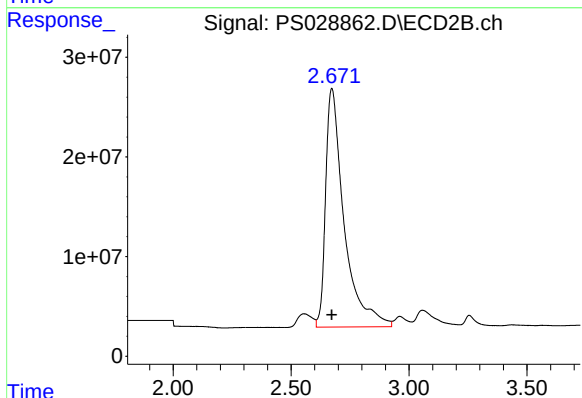




#1 Dalapon

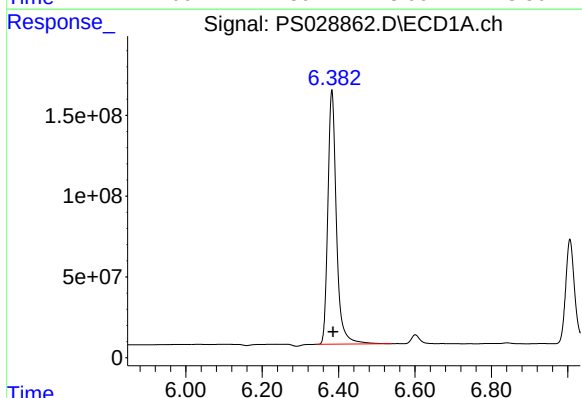
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1939842265
Conc: 688.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



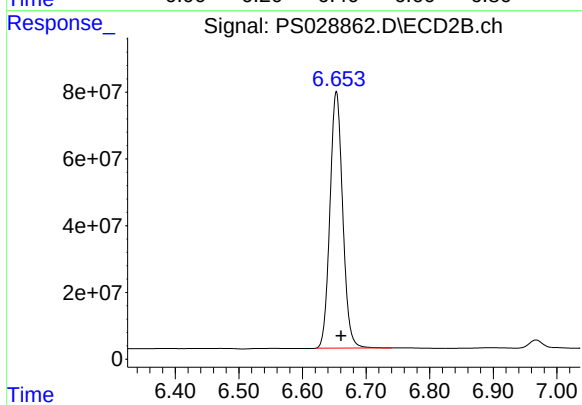
#1 Dalapon

R.T.: 2.672 min
Delta R.T.: 0.000 min
Response: 1304749753
Conc: 662.78 ng/ml



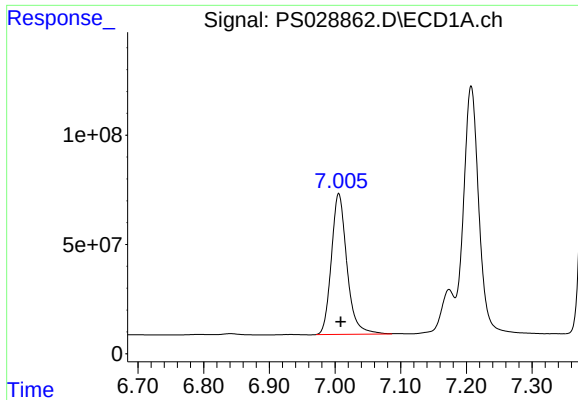
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.383 min
Delta R.T.: -0.003 min
Response: 2439039424
Conc: 740.19 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

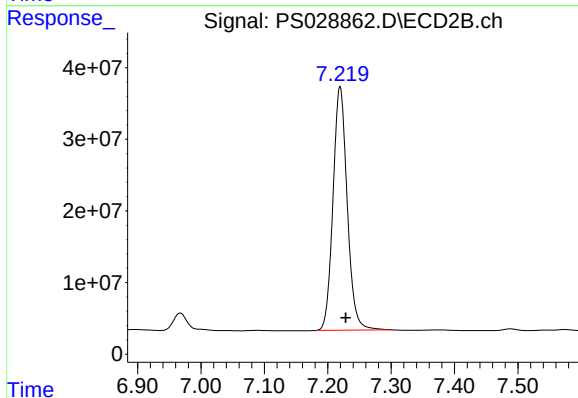
R.T.: 6.653 min
Delta R.T.: -0.007 min
Response: 1071092848
Conc: 646.18 ng/ml



#3 4-Nitrophenol

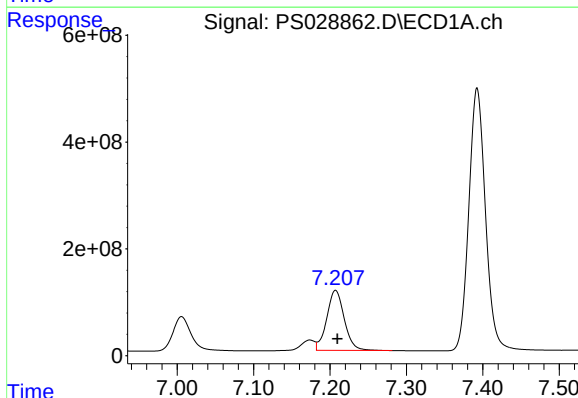
R.T.: 7.006 min
Delta R.T.: -0.003 min
Response: 1060794537
Conc: 706.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



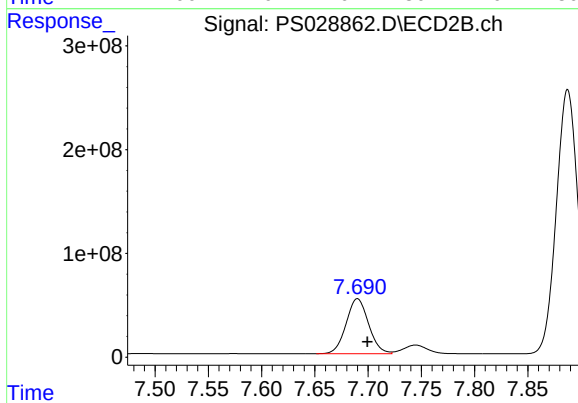
#3 4-Nitrophenol

R.T.: 7.219 min
Delta R.T.: -0.009 min
Response: 530252737
Conc: 633.60 ng/ml



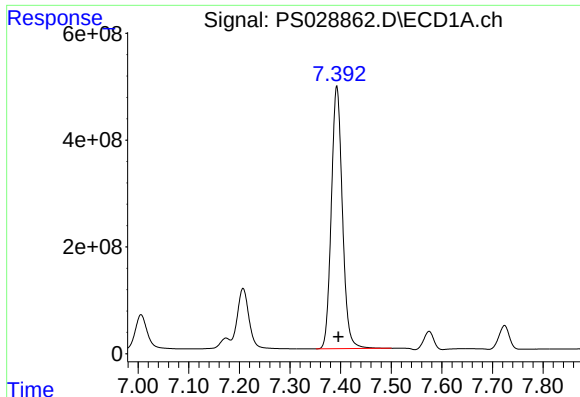
#4 2,4-DCAA

R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 1787742120
Conc: 790.33 ng/ml m



#4 2,4-DCAA

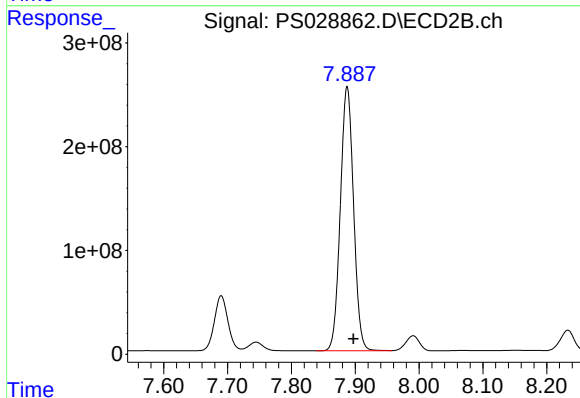
R.T.: 7.690 min
Delta R.T.: -0.009 min
Response: 778435113
Conc: 691.61 ng/ml



#5 DICAMBA

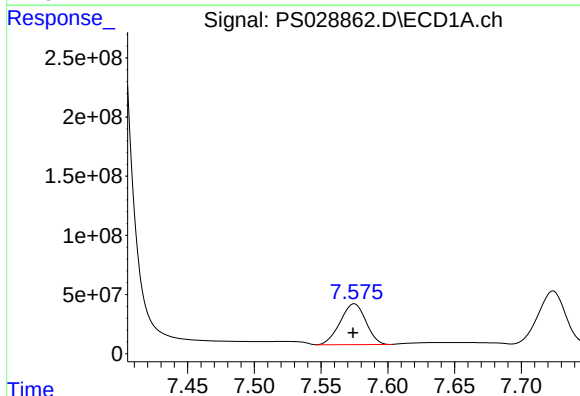
R.T.: 7.393 min
Delta R.T.: -0.003 min
Response: 7469312380
Conc: 757.49 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



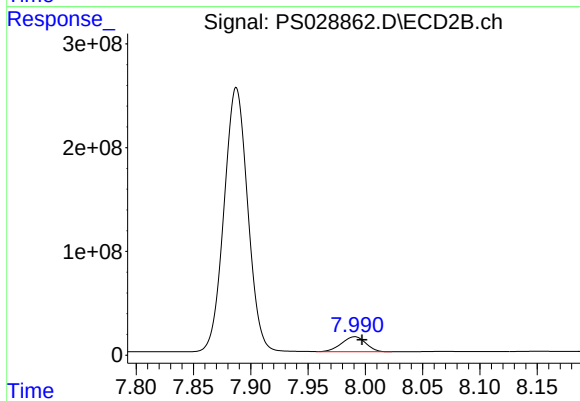
#5 DICAMBA

R.T.: 7.887 min
Delta R.T.: -0.010 min
Response: 3669143340
Conc: 668.35 ng/ml



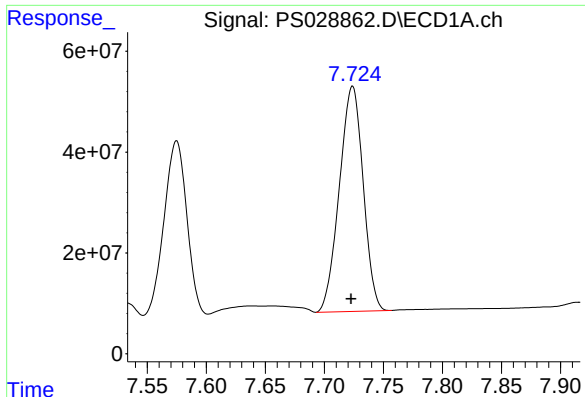
#6 MCP

R.T.: 7.575 min
Delta R.T.: 0.000 min
Response: 460855538
Conc: 74.01 ug/ml



#6 MCP

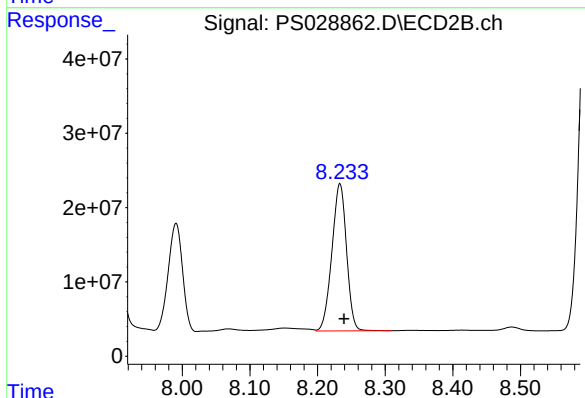
R.T.: 7.991 min
Delta R.T.: -0.006 min
Response: 214445806
Conc: 65.62 ug/ml



#7 MCPA

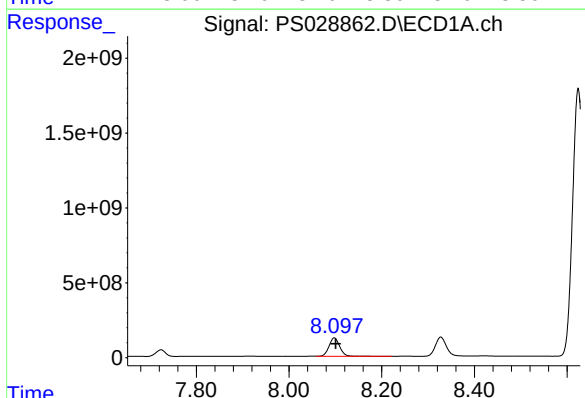
R.T.: 7.724 min
Delta R.T.: 0.001 min
Response: 627020138
Conc: 71.53 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



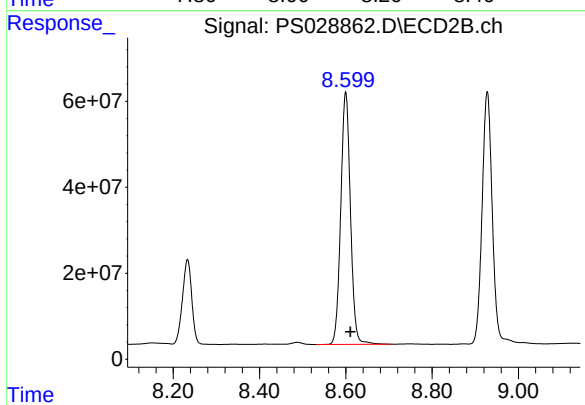
#7 MCPA

R.T.: 8.233 min
Delta R.T.: -0.006 min
Response: 297676124
Conc: 64.25 ug/ml



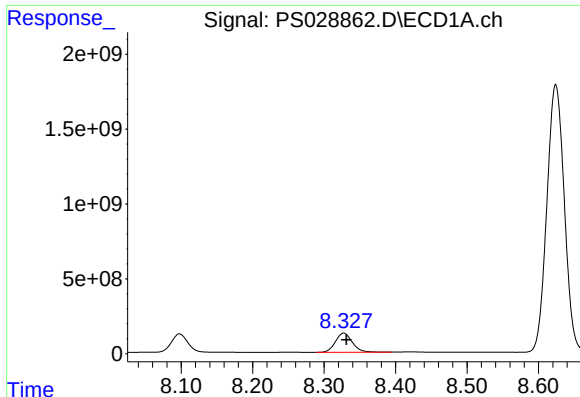
#8 DICHLORPROP

R.T.: 8.098 min
Delta R.T.: -0.003 min
Response: 1973795948
Conc: 743.94 ng/ml



#8 DICHLORPROP

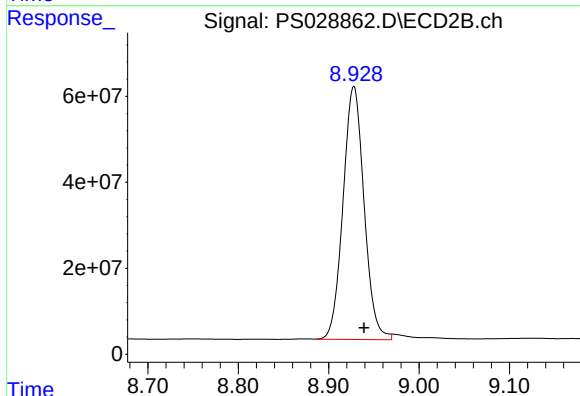
R.T.: 8.600 min
Delta R.T.: -0.011 min
Response: 916157951
Conc: 664.05 ng/ml



#9 2,4-D

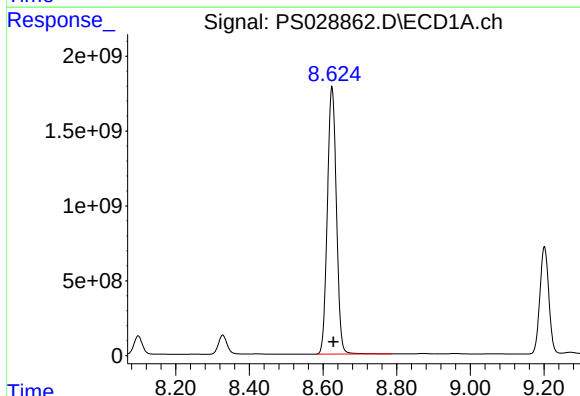
R.T.: 8.327 min
Delta R.T.: -0.004 min
Response: 2114372146
Conc: 742.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



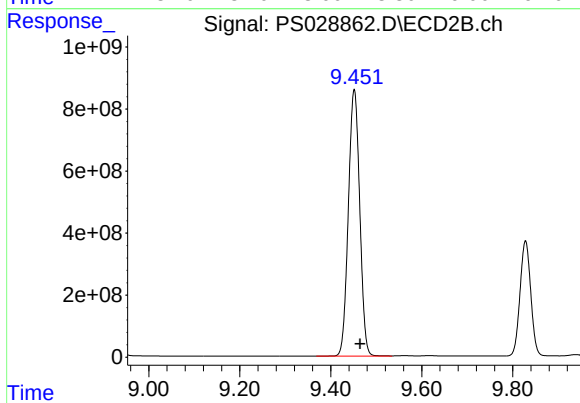
#9 2,4-D

R.T.: 8.928 min
Delta R.T.: -0.012 min
Response: 953737254
Conc: 660.87 ng/ml m



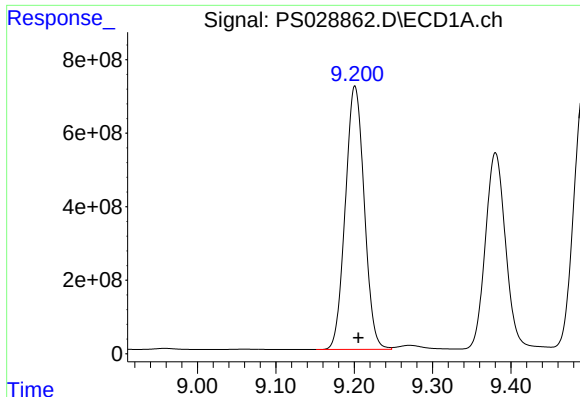
#10 Pentachlorophenol

R.T.: 8.624 min
Delta R.T.: -0.004 min
Response: 30444064610
Conc: 779.28 ng/ml



#10 Pentachlorophenol

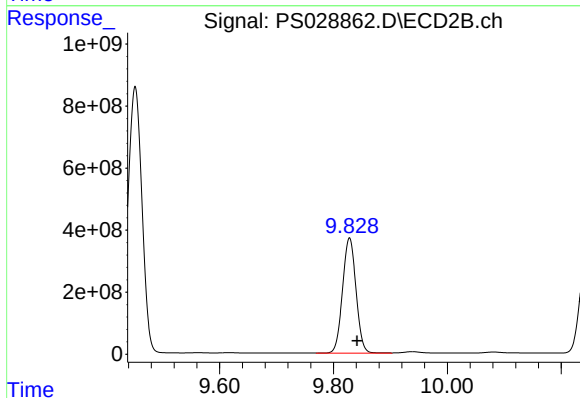
R.T.: 9.452 min
Delta R.T.: -0.013 min
Response: 14903403702
Conc: 683.68 ng/ml



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

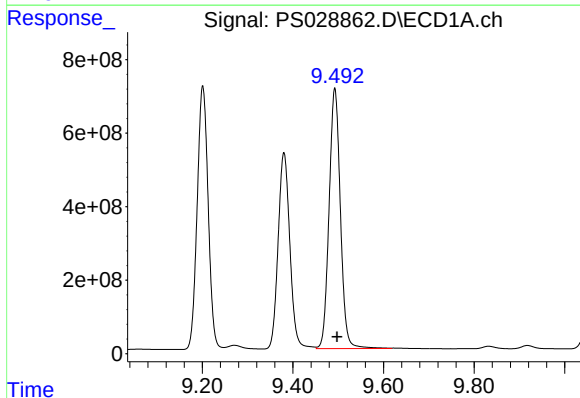
R.T.: 9.201 min
Delta R.T.: -0.004 min
Response: 12021446366
Conc: 765.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



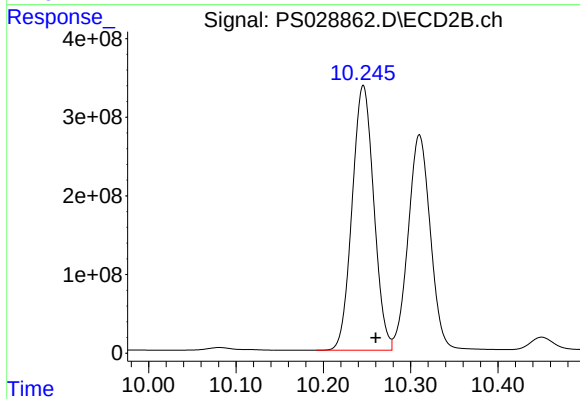
#11 2,4,5-TP (SILVEX)

R.T.: 9.828 min
Delta R.T.: -0.014 min
Response: 6090785383
Conc: 678.00 ng/ml



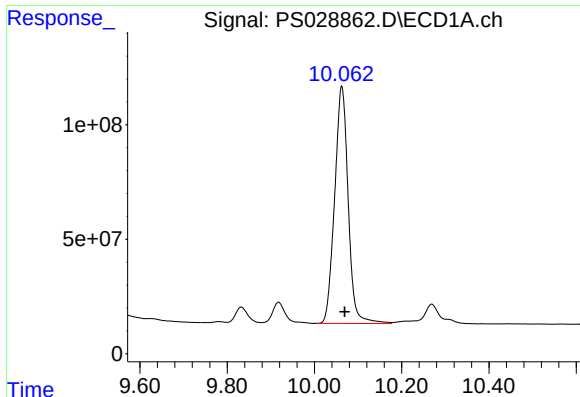
#12 2,4,5-T

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 12262499332
Conc: 753.73 ng/ml



#12 2,4,5-T

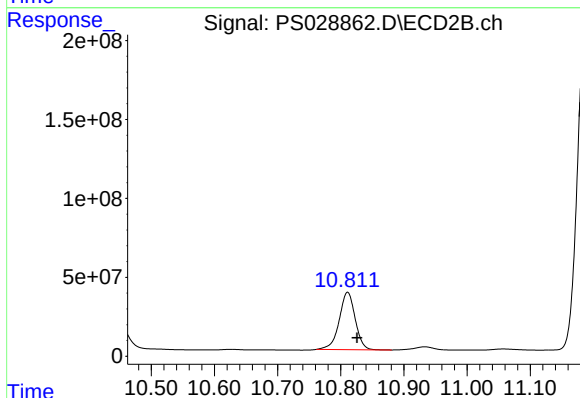
R.T.: 10.246 min
Delta R.T.: -0.014 min
Response: 5794205419
Conc: 665.30 ng/ml



#13 2,4-DB

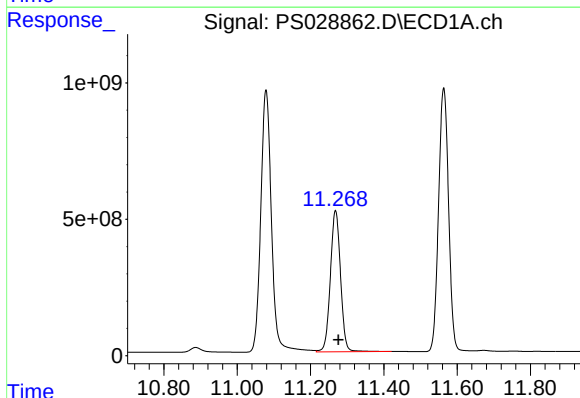
R.T.: 10.063 min
Delta R.T.: -0.007 min
Response: 2237721424
Conc: 716.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



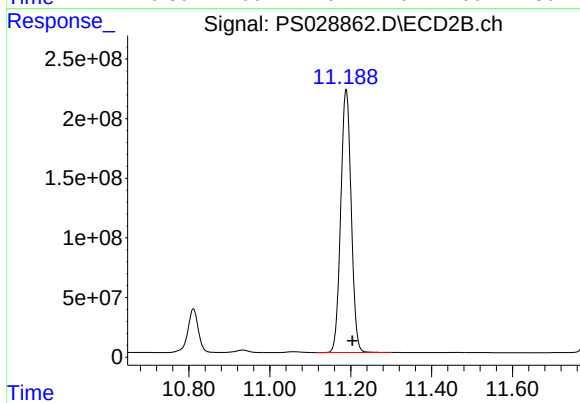
#13 2,4-DB

R.T.: 10.811 min
Delta R.T.: -0.015 min
Response: 639650551
Conc: 658.69 ng/ml



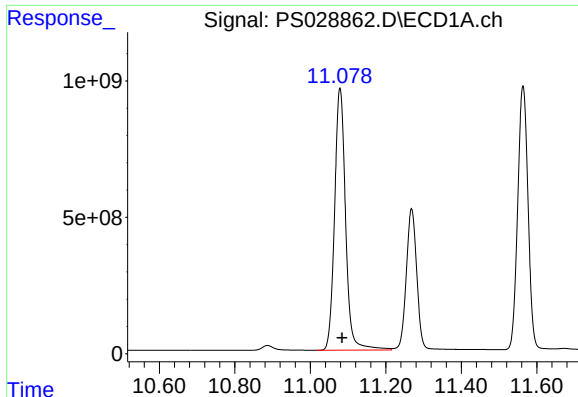
#14 DINOSEB

R.T.: 11.268 min
Delta R.T.: -0.008 min
Response: 9950113581
Conc: 740.24 ng/ml



#14 DINOSEB

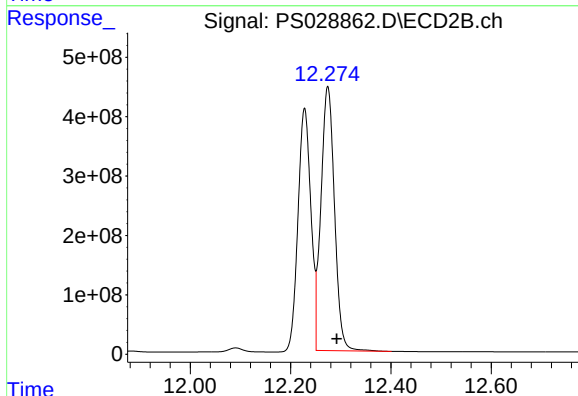
R.T.: 11.189 min
Delta R.T.: -0.015 min
Response: 3955750273
Conc: 642.26 ng/ml



#15 Picloram

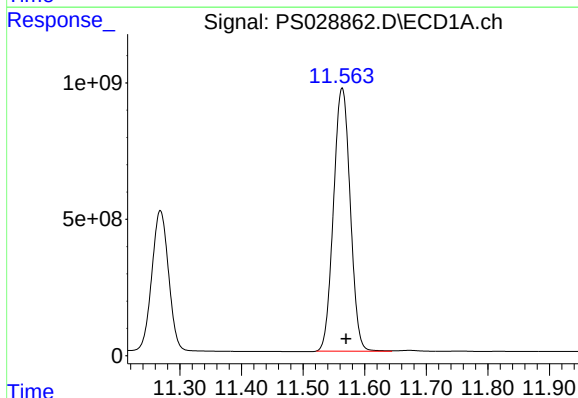
R.T.: 11.079 min
Delta R.T.: -0.005 min
Response: 19443518996
Conc: 725.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



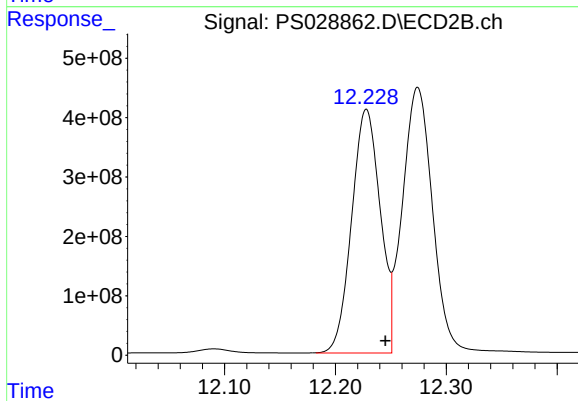
#15 Picloram

R.T.: 12.274 min
Delta R.T.: -0.017 min
Response: 8346811820
Conc: 650.11 ng/ml



#16 DCPA

R.T.: 11.563 min
Delta R.T.: -0.007 min
Response: 18209242157
Conc: 757.11 ng/ml



#16 DCPA

R.T.: 12.228 min
Delta R.T.: -0.018 min
Response: 7336423256
Conc: 682.80 ng/ml m



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

Continuing Calib Date: 12/31/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 12:40 Initial Calibration Time(s): 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

Continuing Calib Date: 12/31/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 12:40 Initial Calibration Time(s): 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL04 Date Analyzed: 12/31/2024

Lab Sample No.: HSTDCCC750 Data File : PS028865.D Time Analyzed: 12:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.202	9.106	9.306	780.130	712.500	9.5
2,4-D	8.328	8.232	8.432	750.400	705.000	6.4
2,4-DCAA	7.208	7.110	7.310	803.900	750.000	7.2



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CALIBRATION VERIFICATION SUMMARY

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL04 Date Analyzed: 12/31/2024

Lab Sample No.: HSTDCCC750 Data File : PS028865.D Time Analyzed: 12:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.829	9.742	9.942	692.120	712.500	-2.9
2,4-D	8.928	8.840	9.040	674.020	705.000	-4.4
2,4-DCAA	7.691	7.600	7.800	708.530	750.000	-5.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
 Data File : PS028865.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Dec 2024 12:40
 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: Jan 01 00:25:53 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 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	7.208	7.691	1818.4E6	797.5E6	803.898	708.534
Target Compounds							
1) T	Dalapon	2.621	2.674	1950.3E6	1248.3E6	692.414	634.104
2) T	3,5-DICHL...	6.383	6.654	2482.4E6	1094.7E6	753.349	660.435
3) T	4-Nitroph...	7.006	7.220	1087.2E6	545.4E6	723.820	651.747
5) T	DICAMBA	7.393	7.888	7618.6E6	3756.8E6	772.625	684.316
6) T	MCPD	7.575	7.991	470.2E6	218.6E6	75.508	66.881
7) T	MCPA	7.725	8.234	638.9E6	304.3E6	72.891	65.676
8) T	DICHLORPROP	8.098	8.600	2024.8E6	940.4E6	763.172	681.643
9) T	2,4-D	8.328	8.928	2138.3E6	972.7E6	750.404	674.023m
10) T	Pentachlo...	8.626	9.452	31097.2E6	15235.9E6	795.998	698.936
11) T	2,4,5-TP ...	9.202	9.829	12255.3E6	6217.6E6	780.130	692.116
12) T	2,4,5-T	9.493	10.246	12525.7E6	5915.0E6	769.902	679.174
13) T	2,4-DB	10.064	10.811	2276.0E6	655.0E6	729.107	674.443
14) T	DINOSEB	11.269	11.189	10184.7E6	4047.5E6	757.693	657.145
15) T	Picloram	11.079	12.275	19519.8E6	8392.9E6	728.005	653.705
16) T	DCPA	11.564	12.228	18581.1E6	7560.7E6	772.570	703.681m

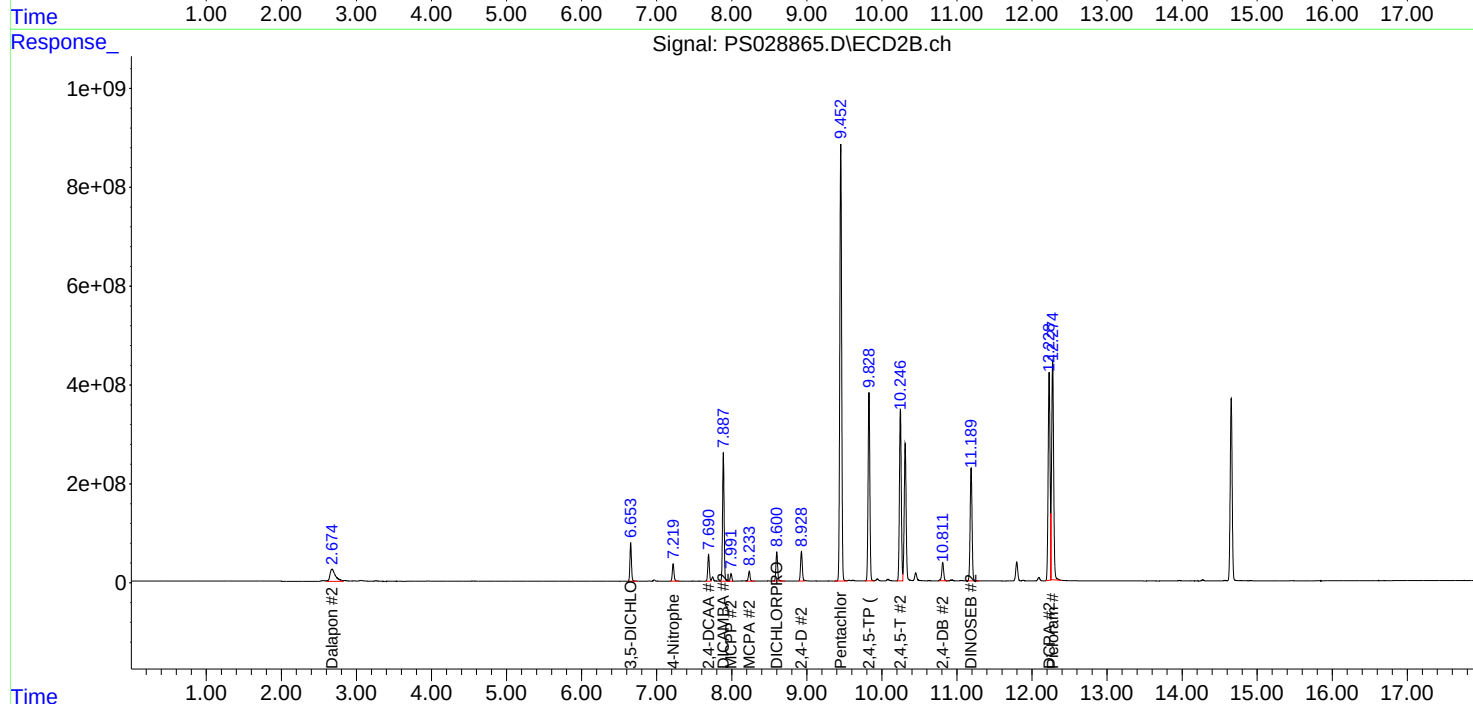
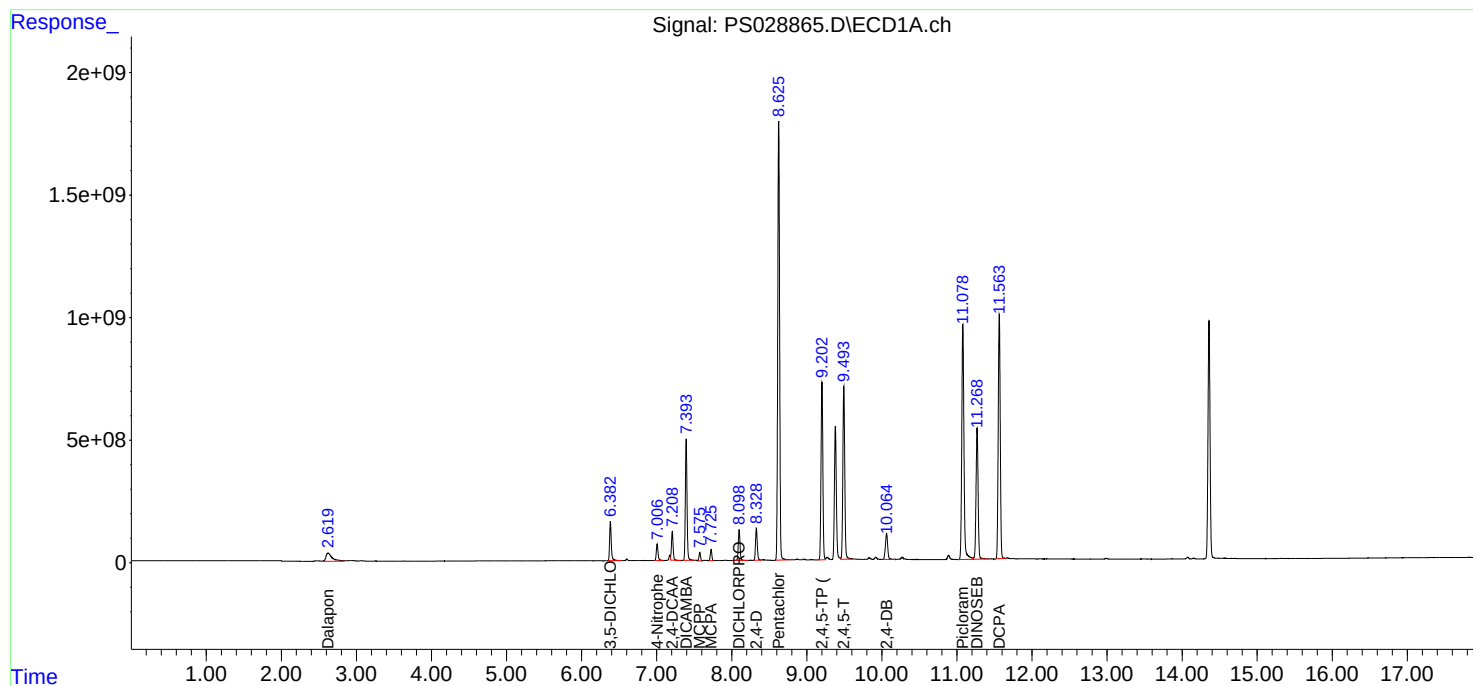
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028865.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 12:40
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: Jan 01 00:25:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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: PS028865.D\ECD1A.ch

#1 Dalapon

R.T.: 2.621 min
Delta R.T.: 0.000 min
Response: 1950287205
Conc: 692.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Time

Response_ Signal: PS028865.D\ECD2B.ch

#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.002 min
Response: 1248297922
Conc: 634.10 ng/ml

Time

Response_ Signal: PS028865.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 2482386054
Conc: 753.35 ng/ml

Time

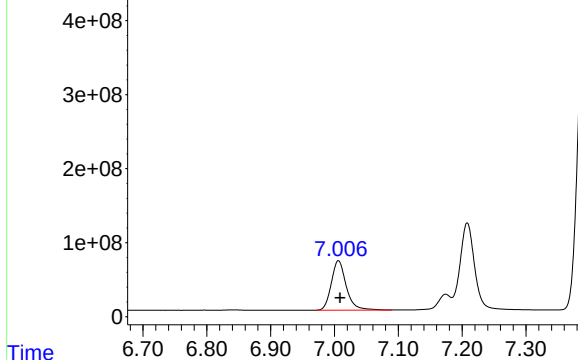
Response_ Signal: PS028865.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.654 min
Delta R.T.: -0.007 min
Response: 1094719144
Conc: 660.43 ng/ml

Time

Response_ Signal: PS028865.D\ECD1A.ch

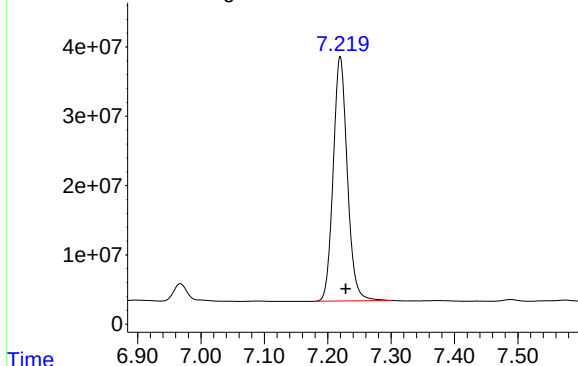


#3 4-Nitrophenol

R.T.: 7.006 min
Delta R.T.: -0.002 min
Response: 1087220215
Conc: 723.82 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

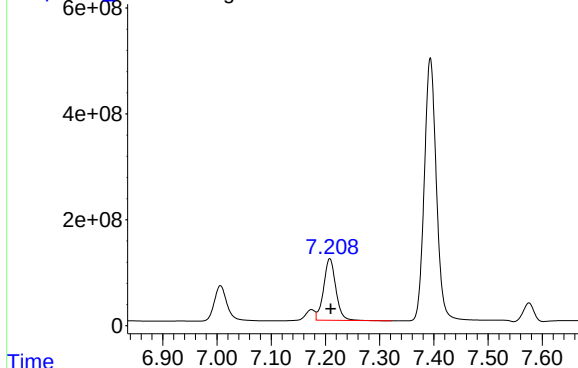
Response_ Signal: PS028865.D\ECD2B.ch



#3 4-Nitrophenol

R.T.: 7.220 min
Delta R.T.: -0.009 min
Response: 545442736
Conc: 651.75 ng/ml

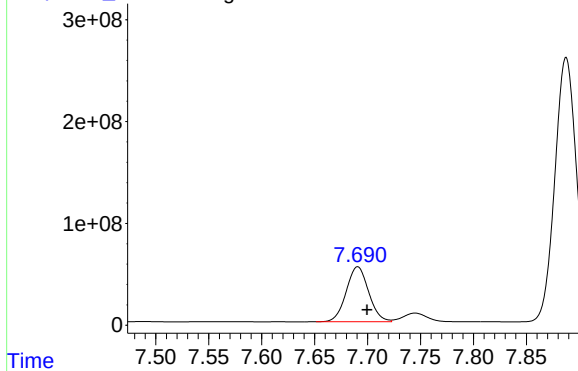
Response_ Signal: PS028865.D\ECD1A.ch



#4 2,4-DCAA

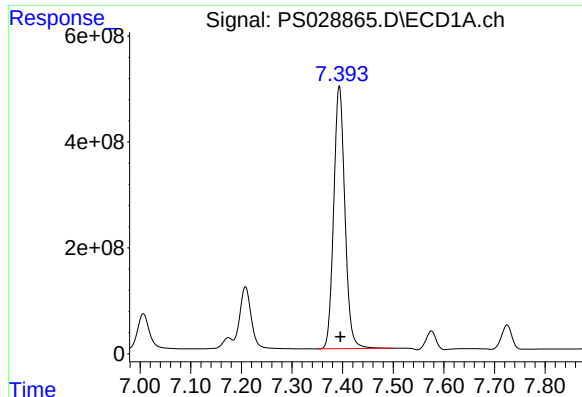
R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 1818438306
Conc: 803.90 ng/ml

Response_ Signal: PS028865.D\ECD2B.ch



#4 2,4-DCAA

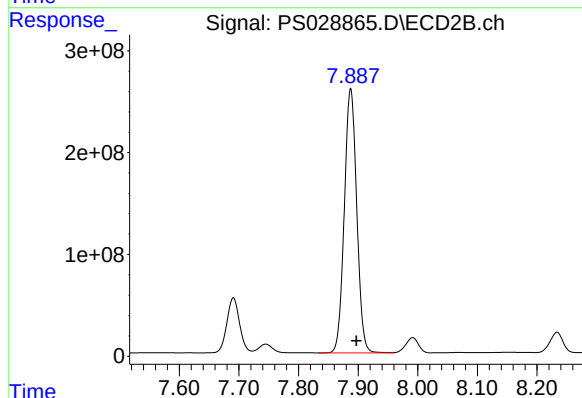
R.T.: 7.691 min
Delta R.T.: -0.009 min
Response: 797481442
Conc: 708.53 ng/ml



#5 DICAMBA

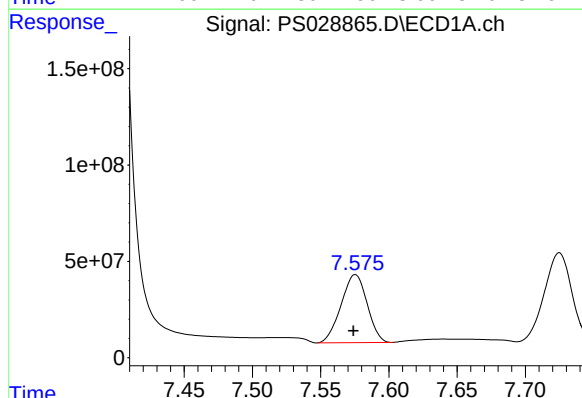
R.T.: 7.393 min
Delta R.T.: -0.003 min
Response: 7618578843
Conc: 772.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



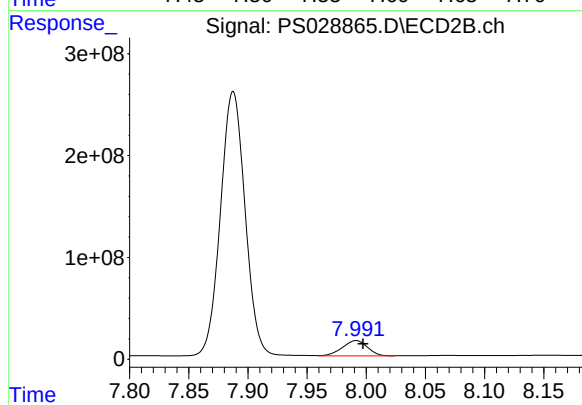
#5 DICAMBA

R.T.: 7.888 min
Delta R.T.: -0.010 min
Response: 3756806000
Conc: 684.32 ng/ml



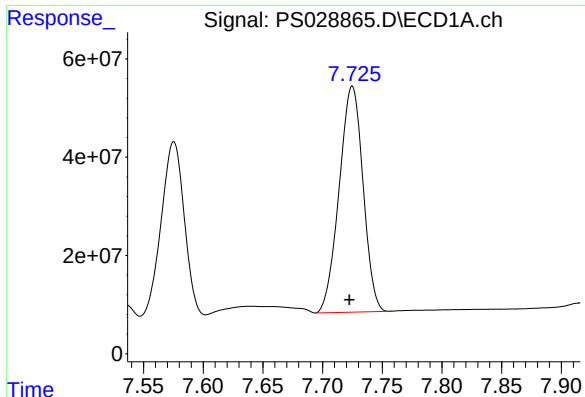
#6 MCP

R.T.: 7.575 min
Delta R.T.: 0.001 min
Response: 470201653
Conc: 75.51 ug/ml



#6 MCP

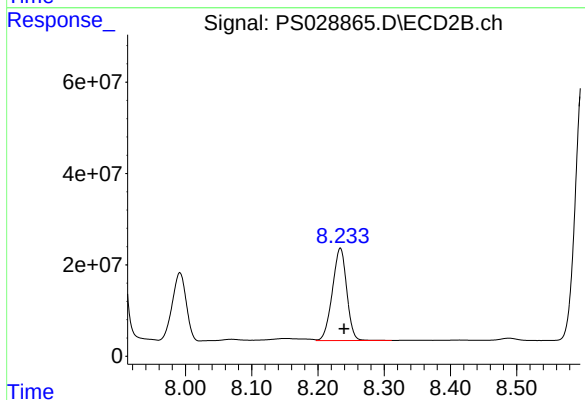
R.T.: 7.991 min
Delta R.T.: -0.006 min
Response: 218554368
Conc: 66.88 ug/ml



#7 MCPA

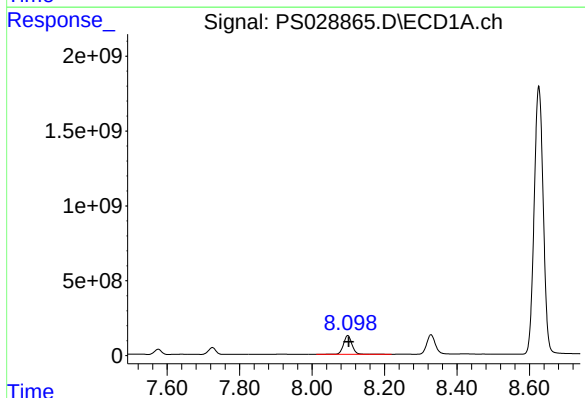
R.T.: 7.725 min
Delta R.T.: 0.002 min
Response: 638921719
Conc: 72.89 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



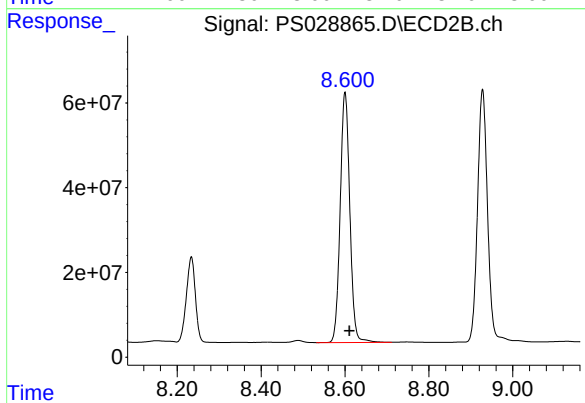
#7 MCPA

R.T.: 8.234 min
Delta R.T.: -0.006 min
Response: 304268403
Conc: 65.68 ug/ml



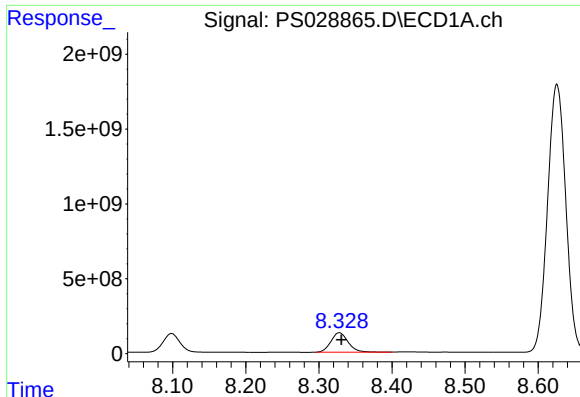
#8 DICHLORPROP

R.T.: 8.098 min
Delta R.T.: -0.003 min
Response: 2024830431
Conc: 763.17 ng/ml



#8 DICHLORPROP

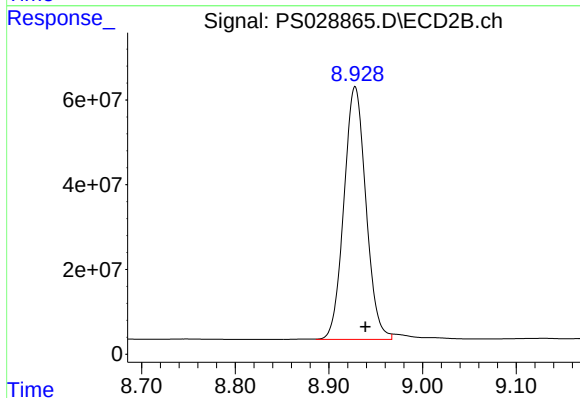
R.T.: 8.600 min
Delta R.T.: -0.011 min
Response: 940434238
Conc: 681.64 ng/ml



#9 2,4-D

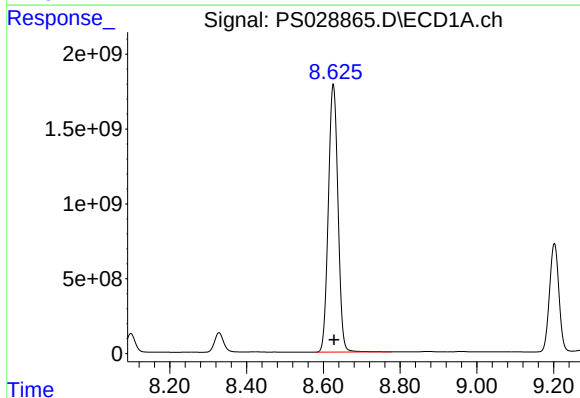
R.T.: 8.328 min
Delta R.T.: -0.003 min
Response: 2138302178
Conc: 750.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



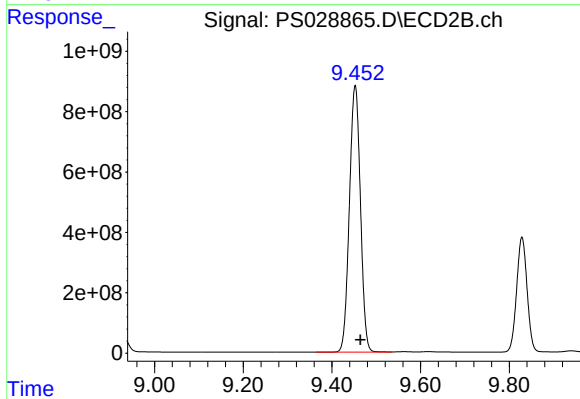
#9 2,4-D

R.T.: 8.928 min
Delta R.T.: -0.012 min
Response: 972713335
Conc: 674.02 ng/ml m



#10 Pentachlorophenol

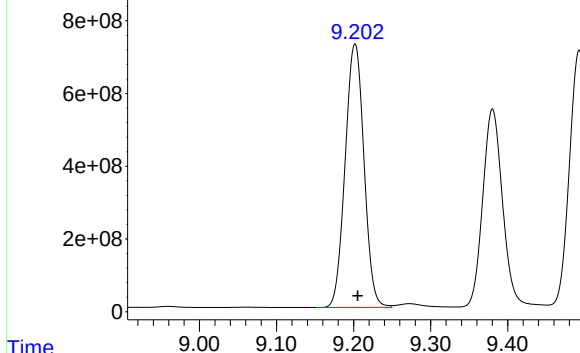
R.T.: 8.626 min
Delta R.T.: -0.002 min
Response: 31097234817
Conc: 796.00 ng/ml



#10 Pentachlorophenol

R.T.: 9.452 min
Delta R.T.: -0.012 min
Response: 15235899256
Conc: 698.94 ng/ml

Response_ Signal: PS028865.D\ECD1A.ch

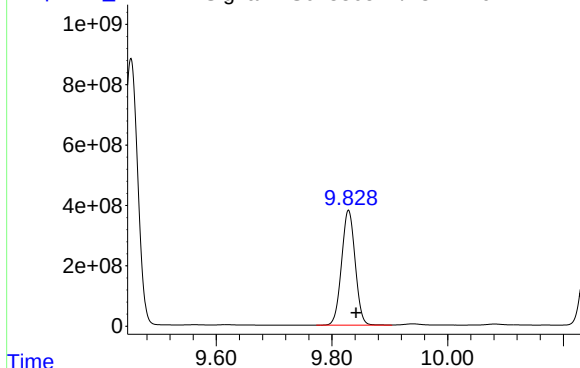


#11 2,4,5-TP (SILVEX)

R.T.: 9.202 min
Delta R.T.: -0.004 min
Response: 12255318570
Conc: 780.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

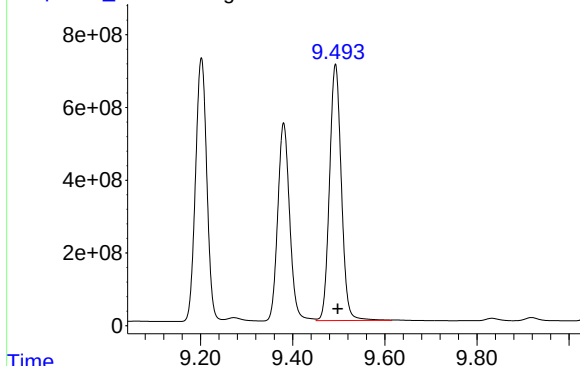
Time Response_ Signal: PS028865.D\ECD2B.ch



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

R.T.: 9.829 min
Delta R.T.: -0.013 min
Response: 6217636956
Conc: 692.12 ng/ml

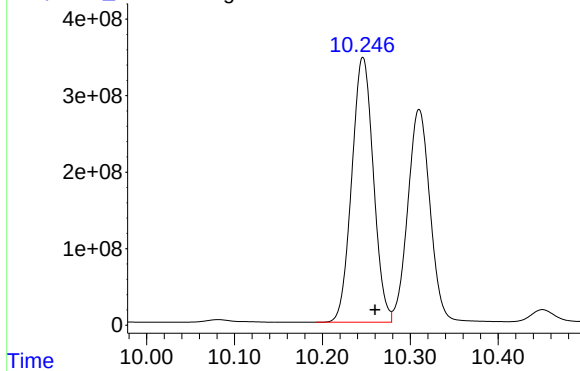
Time Response_ Signal: PS028865.D\ECD1A.ch



#12 2,4,5-T

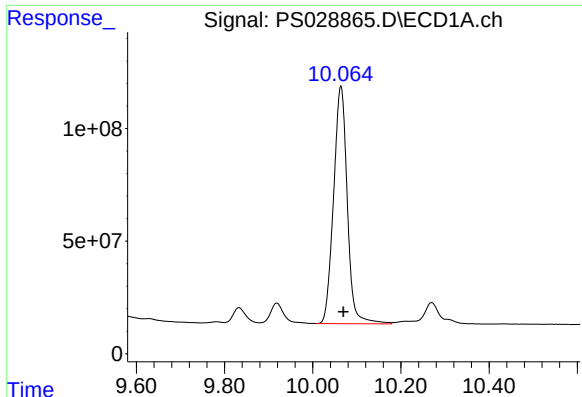
R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 12525679677
Conc: 769.90 ng/ml

Time Response_ Signal: PS028865.D\ECD2B.ch



#12 2,4,5-T

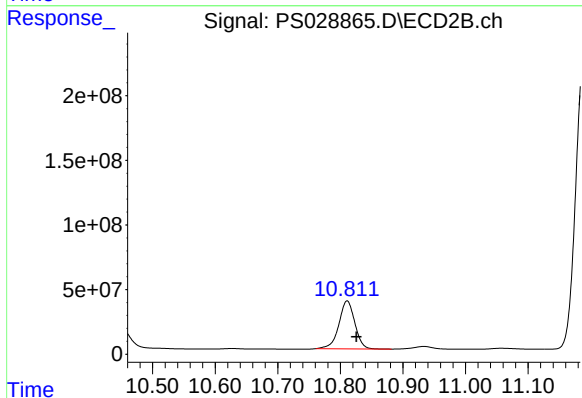
R.T.: 10.246 min
Delta R.T.: -0.014 min
Response: 5915049507
Conc: 679.17 ng/ml



#13 2,4-DB

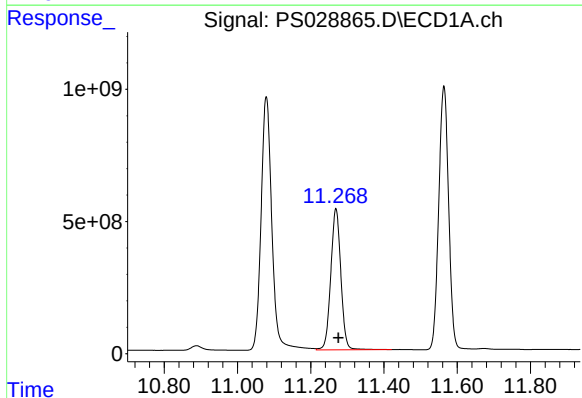
R.T.: 10.064 min
Delta R.T.: -0.006 min
Response: 2275979756
Conc: 729.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



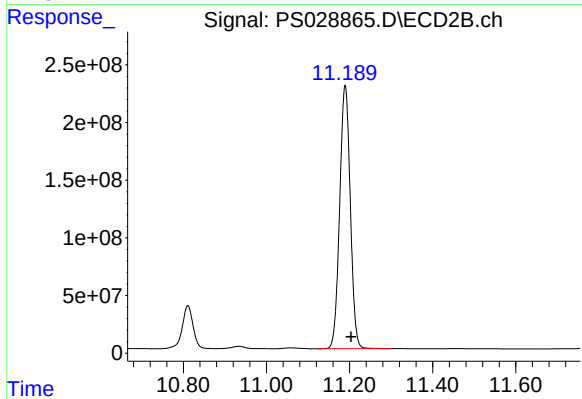
#13 2,4-DB

R.T.: 10.811 min
Delta R.T.: -0.015 min
Response: 654950053
Conc: 674.44 ng/ml



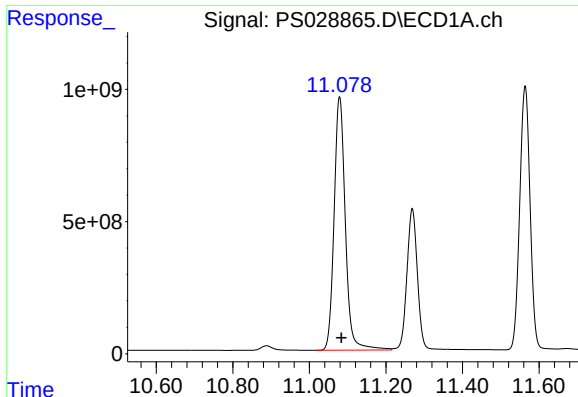
#14 DINOSEB

R.T.: 11.269 min
Delta R.T.: -0.007 min
Response: 10184697401
Conc: 757.69 ng/ml



#14 DINOSEB

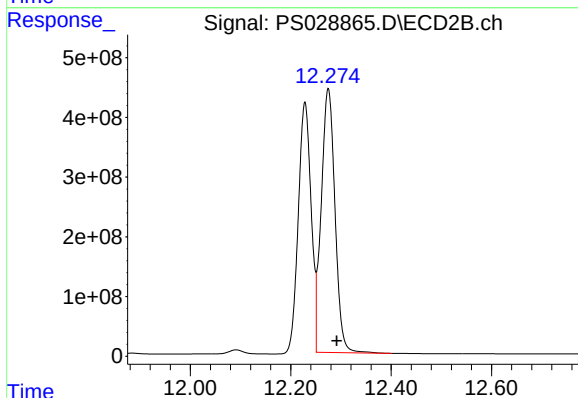
R.T.: 11.189 min
Delta R.T.: -0.015 min
Response: 4047451149
Conc: 657.14 ng/ml



#15 Picloram

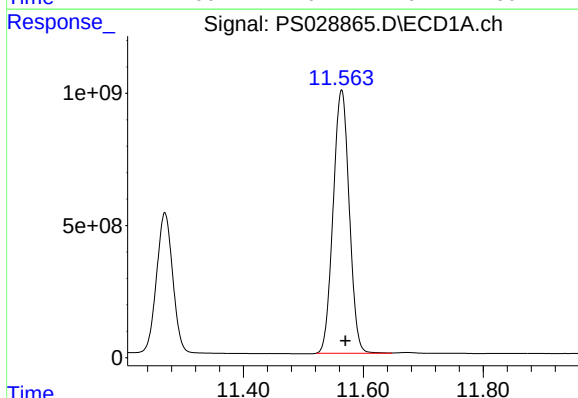
R.T.: 11.079 min
Delta R.T.: -0.005 min
Response: 19519842955
Conc: 728.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



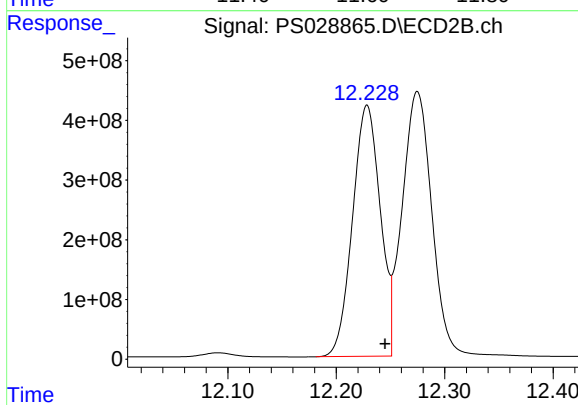
#15 Picloram

R.T.: 12.275 min
Delta R.T.: -0.017 min
Response: 8392924351
Conc: 653.70 ng/ml



#16 DCPA

R.T.: 11.564 min
Delta R.T.: -0.006 min
Response: 18581112395
Conc: 772.57 ng/ml



#16 DCPA

R.T.: 12.228 min
Delta R.T.: -0.017 min
Response: 7560749893
Conc: 703.68 ng/ml m

Analytical Sequence

Client: PARSONS Main of New York, Inc.	SDG No.: P5362
Project: Con Ed Non-MGP - East River SI 453648	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 12/23/2024 12/23/2024

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 #
IBLK	IBLK	12/23/2024	11:00	PS028786.D	7.21	0.00
HSTDICC200	HSTDICC200	12/23/2024	11:23	PS028787.D	7.21	0.00
HSTDICC500	HSTDICC500	12/23/2024	11:47	PS028788.D	7.21	0.00
HSTDICC750	HSTDICC750	12/23/2024	12:11	PS028789.D	7.21	0.00
HSTDICC1000	HSTDICC1000	12/23/2024	12:35	PS028790.D	7.21	0.00
HSTDICC1500	HSTDICC1500	12/23/2024	12:59	PS028791.D	7.21	0.00
IBLK	IBLK	12/27/2024	19:32	PS028836.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/27/2024	19:56	PS028837.D	7.21	0.00
PB165896BL	PB165896BL	12/27/2024	21:08	PS028838.D	7.21	0.00
PB165896BS	PB165896BS	12/27/2024	21:32	PS028839.D	7.21	0.00
WC-SOIL-20241219	P5362-02	12/27/2024	22:20	PS028841.D	7.21	0.00
WC-SOIL-20241219MS	P5362-02MS	12/27/2024	22:44	PS028842.D	7.21	0.00
WC-SOIL-20241219MSD	P5362-02MSD	12/27/2024	23:08	PS028843.D	7.21	0.00
IBLK	IBLK	12/27/2024	23:56	PS028845.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/28/2024	00:19	PS028846.D	7.21	0.00
IBLK	IBLK	12/31/2024	08:35	PS028861.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/31/2024	08:59	PS028862.D	7.21	0.00
PB165858TB	PB165858TB	12/31/2024	11:52	PS028863.D	7.21	0.00
IBLK	IBLK	12/31/2024	12:16	PS028864.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/31/2024	12:40	PS028865.D	7.21	0.00

Analytical Sequence

Client: PARSONS Main of New York, Inc.	SDG No.: P5362
Project: Con Ed Non-MGP - East River SI 453648	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 12/23/2024 12/23/2024

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 #
IBLK	IBLK	12/23/2024	11:00	PS028786.D	7.70	0.00
HSTDICC200	HSTDICC200	12/23/2024	11:23	PS028787.D	7.70	0.00
HSTDICC500	HSTDICC500	12/23/2024	11:47	PS028788.D	7.70	0.00
HSTDICC750	HSTDICC750	12/23/2024	12:11	PS028789.D	7.70	0.00
HSTDICC1000	HSTDICC1000	12/23/2024	12:35	PS028790.D	7.70	0.00
HSTDICC1500	HSTDICC1500	12/23/2024	12:59	PS028791.D	7.70	0.00
IBLK	IBLK	12/27/2024	19:32	PS028836.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/27/2024	19:56	PS028837.D	7.69	0.00
PB165896BL	PB165896BL	12/27/2024	21:08	PS028838.D	7.69	0.00
PB165896BS	PB165896BS	12/27/2024	21:32	PS028839.D	7.69	0.00
WC-SOIL-20241219	P5362-02	12/27/2024	22:20	PS028841.D	7.69	0.00
WC-SOIL-20241219MS	P5362-02MS	12/27/2024	22:44	PS028842.D	7.69	0.00
WC-SOIL-20241219MSD	P5362-02MSD	12/27/2024	23:08	PS028843.D	7.70	0.00
IBLK	IBLK	12/27/2024	23:56	PS028845.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/28/2024	00:19	PS028846.D	7.69	0.00
IBLK	IBLK	12/31/2024	08:35	PS028861.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/31/2024	08:59	PS028862.D	7.69	0.00
PB165858TB	PB165858TB	12/31/2024	11:52	PS028863.D	7.69	0.00
IBLK	IBLK	12/31/2024	12:16	PS028864.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/31/2024	12:40	PS028865.D	7.69	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165896BS

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

Lab Sample ID: PB165896BS Date(s) Analyzed: 12/27/2024 12/27/2024

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	8.33	8.28	8.38	5.30	7.8
	2	8.93	8.88	8.98	4.90	
2,4,5-TP(Silvex)	1	9.20	9.15	9.25	5.60	11.3
	2	9.83	9.78	9.88	5.00	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-SOIL-20241219MS

Contract: PARS02

Lab Code: CHEM Case No.: P5362 SAS No.: P5362 SDG NO.: P5362

Lab Sample ID: P5362-02MS Date(s) Analyzed: 12/27/2024 12/27/2024

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	8.32	8.27	8.37	56.3	10.5
	2	8.93	8.88	8.98	50.7	
2,4,5-TP(Silvex)	1	9.20	9.15	9.25	56.3	7.4
	2	9.84	9.79	9.89	60.6	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-SOIL-20241219MSD

Contract: PARS02

Lab Code: CHEM Case No.: P5362

SAS No.: P5362 SDG NO.: P5362

Lab Sample ID: P5362-02MSD

Date(s) Analyzed: 12/27/2024 12/27/2024

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	8.33	8.28	8.38	55.1	8.9
	2	8.93	8.88	8.98	50.4	
2,4,5-TP(Silvex)	1	9.20	9.15	9.25	56.3	10.4
	2	9.84	9.79	9.89	62.5	



QC SAMPLE DATA

Report of Analysis

Client:	PARSONS Main of New York, Inc.	Date Collected:	
Project:	Con Ed Non-MGP - East River SI 453648	Date Received:	
Client Sample ID:	PB165896BL	SDG No.:	P5362
Lab Sample ID:	PB165896BL	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028838.D	1	12/27/24 10:20	12/27/24 21:08	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	580		39 - 175	116%	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\PS122724\
Data File : PS028838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 21:08
Operator : AR\AJ
Sample : PB165896BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165896BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:07:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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	7.205	7.694	1311.5E6	567.1E6	579.798	503.831

Target Compounds

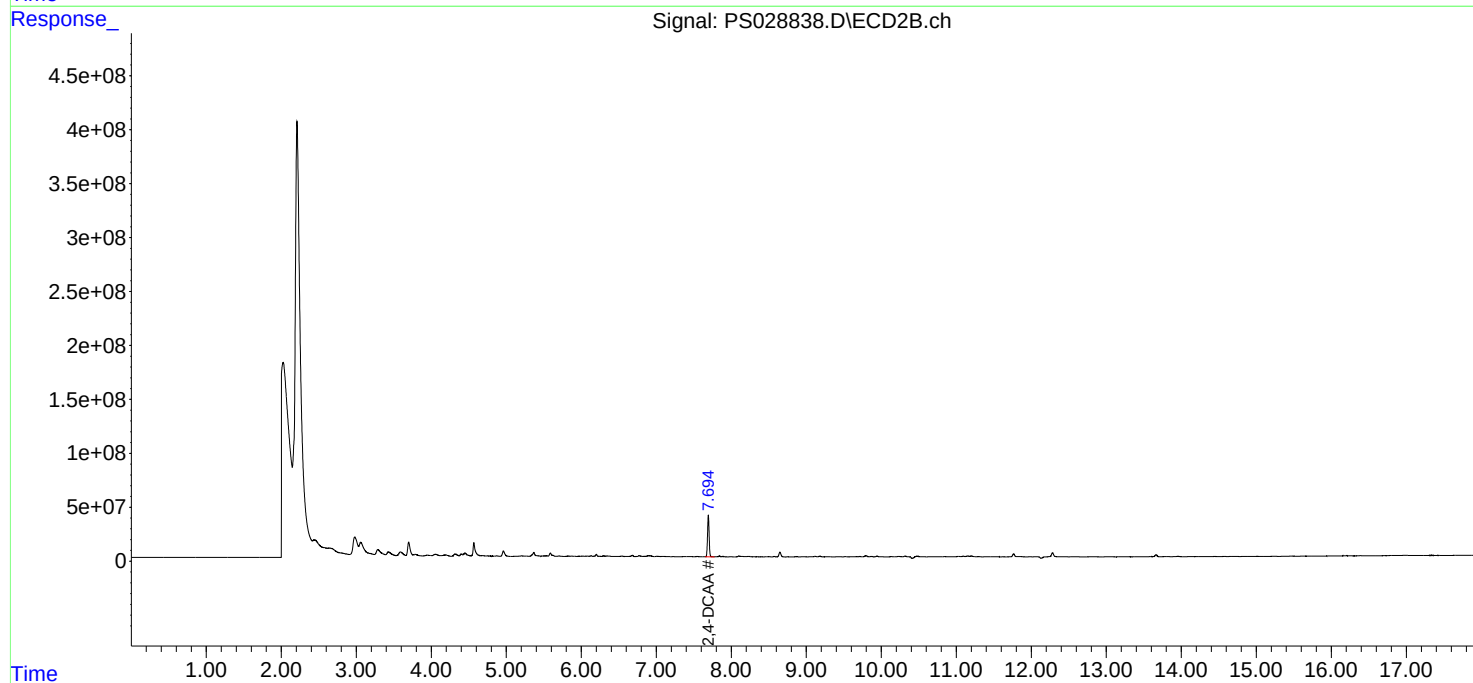
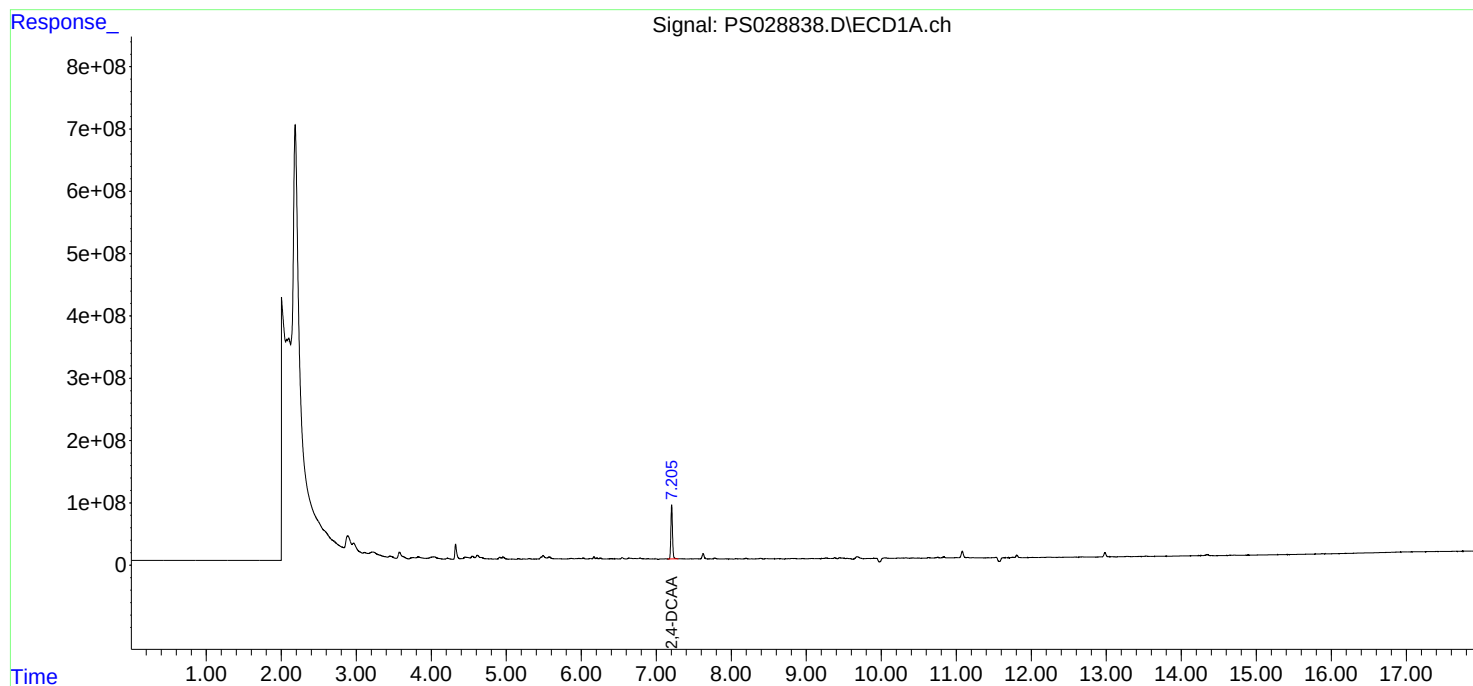
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

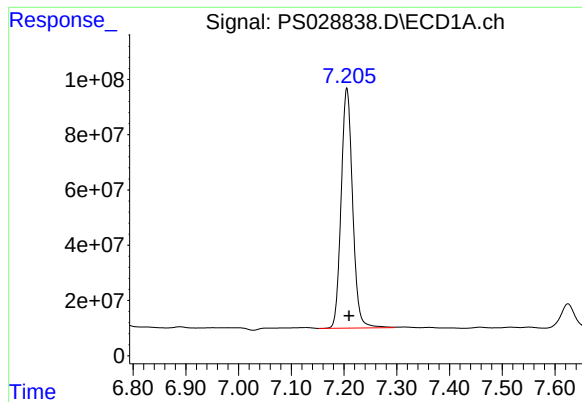
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 21:08
Operator : AR\AJ
Sample : PB165896BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165896BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:07:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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

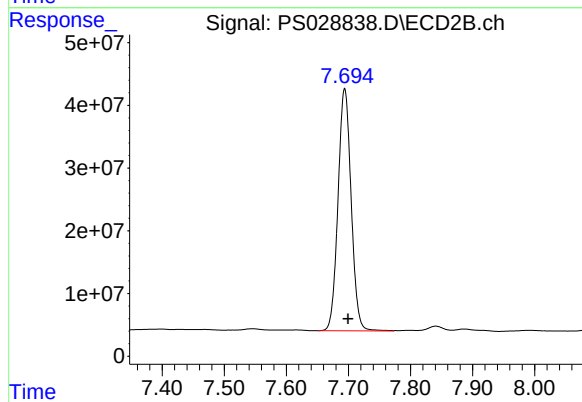




#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.004 min
Response: 1311518270
Conc: 579.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BL



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 567080708
Conc: 503.83 ng/ml

Report of Analysis

Client:	PARSONS Main of New York, Inc.	Date Collected:	12/23/24
Project:	Con Ed Non-MGP - East River SI 453648	Date Received:	12/23/24
Client Sample ID:	PIBLK-PS028786.D	SDG No.:	P5362
Lab Sample ID:	I.BLK-PS028786.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028786.D	1		12/23/24	PS122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	482		39 - 175	96%	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\PS122324\
Data File : PS028786.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:00
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:45:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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	7.210	7.700	1061.6E6	542.0E6	469.322	481.551

Target Compounds

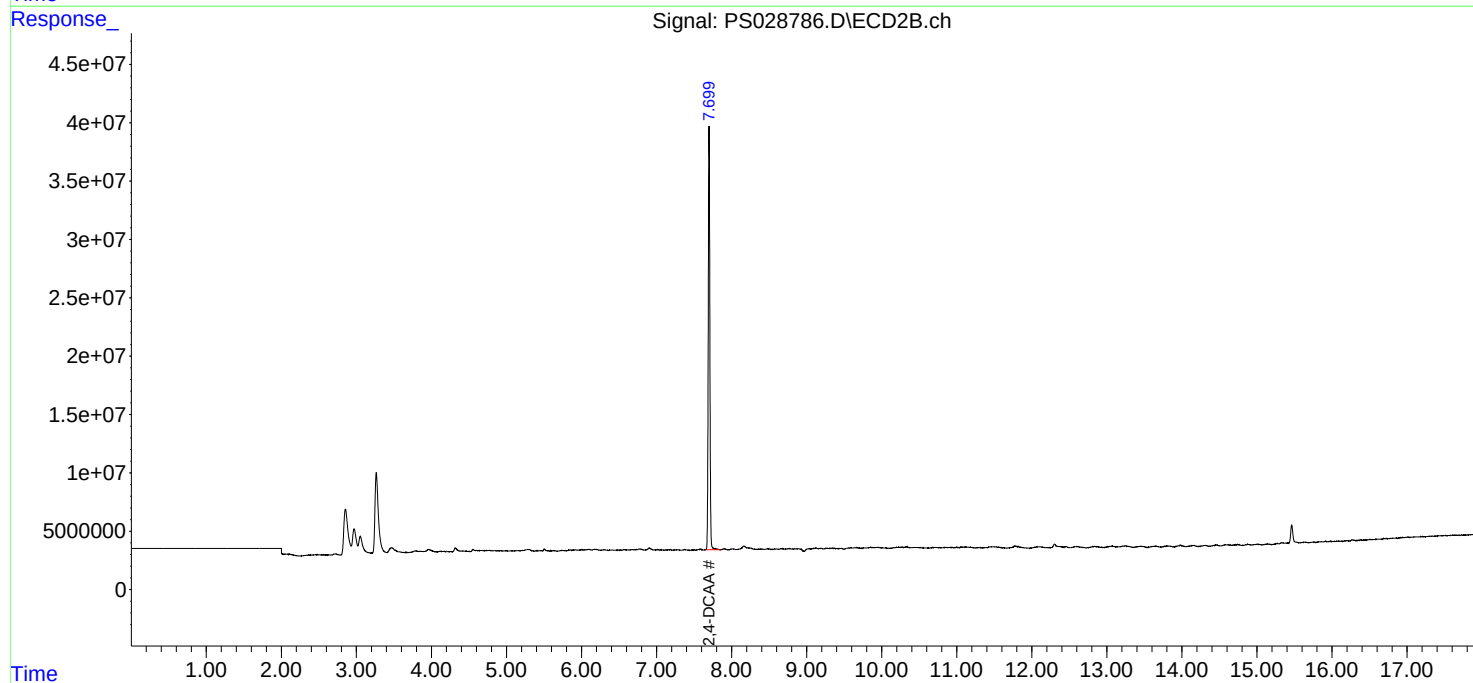
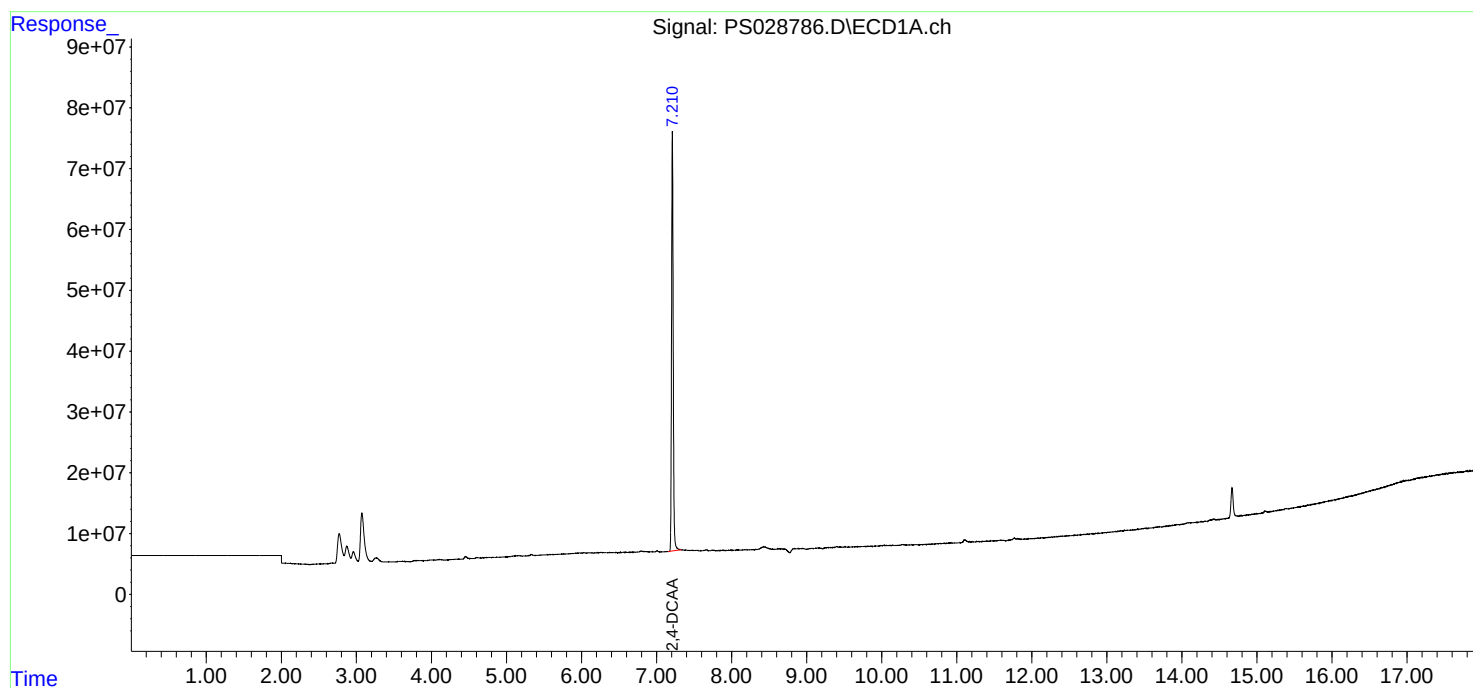
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028786.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:00
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

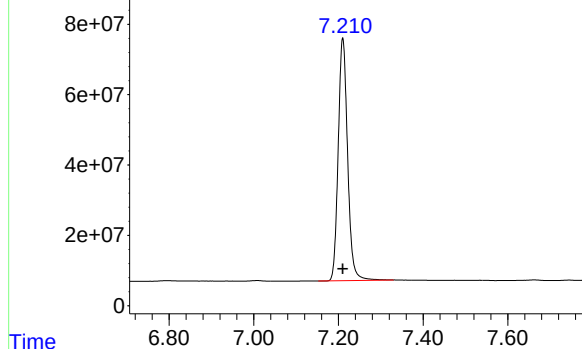
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:45:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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: PS028786.D\ECD1A.ch

#4 2,4-DCAA

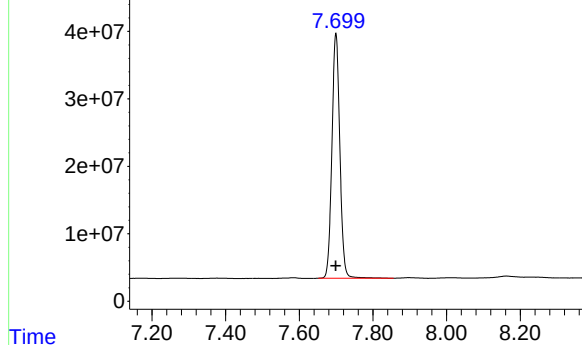


R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1061618688
Conc: 469.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028786.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 542003820
Conc: 481.55 ng/ml

Report of Analysis

Client:	PARSONS Main of New York, Inc.	Date Collected:	12/27/24
Project:	Con Ed Non-MGP - East River SI 453648	Date Received:	12/27/24
Client Sample ID:	PIBLK-PS028836.D	SDG No.:	P5362
Lab Sample ID:	I.BLK-PS028836.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028836.D	1		12/27/24	PS122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	568		39 - 175	114%	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\PS122724\
Data File : PS028836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 19:32
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:07:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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	7.205	7.694	1285.3E6	578.2E6	568.223	513.697

Target Compounds

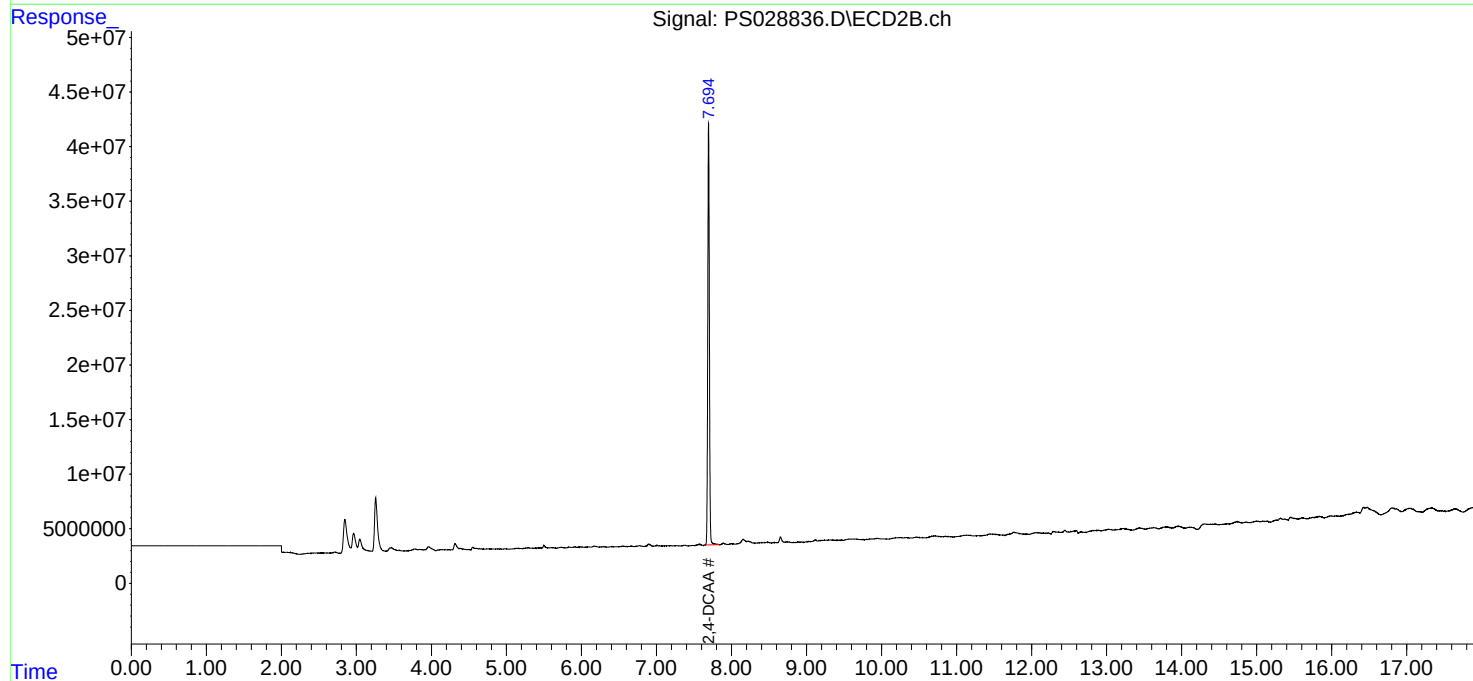
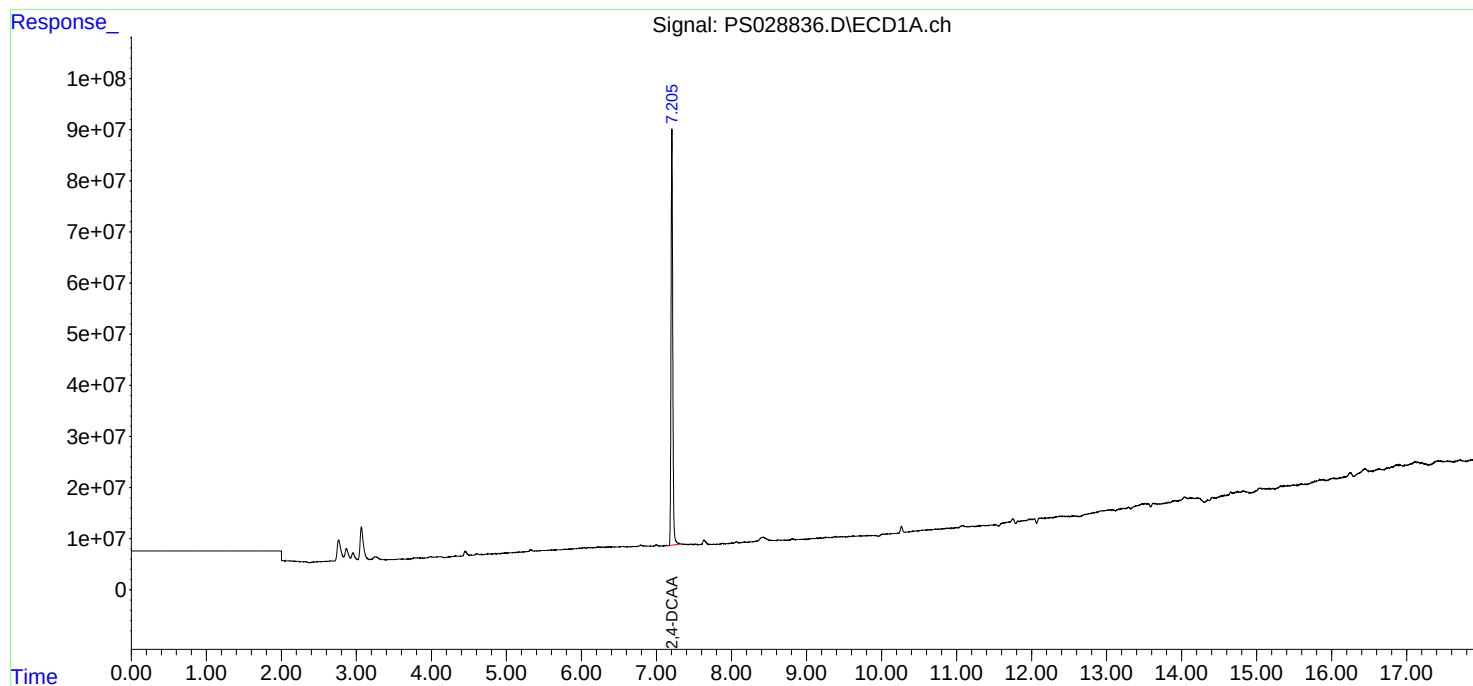
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

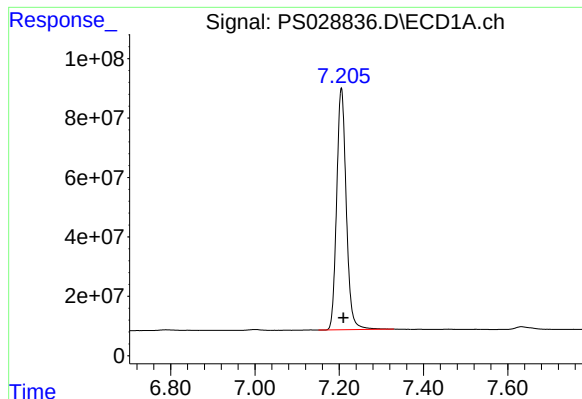
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 19:32
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:07:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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

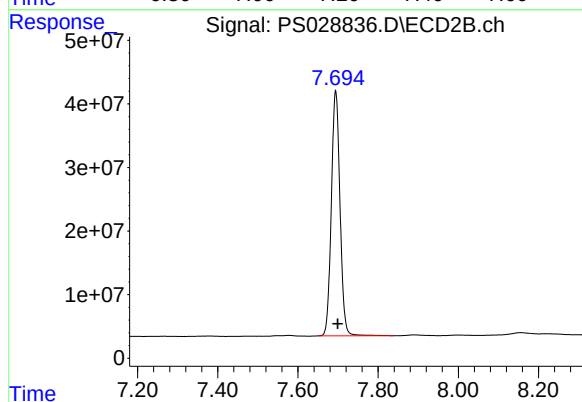




#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.005 min
Response: 1285334834
Conc: 568.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 578185233
Conc: 513.70 ng/ml

Report of Analysis

Client:	PARSONS Main of New York, Inc.	Date Collected:	12/27/24
Project:	Con Ed Non-MGP - East River SI 453648	Date Received:	12/27/24
Client Sample ID:	PIBLK-PS028845.D	SDG No.:	P5362
Lab Sample ID:	I.BLK-PS028845.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028845.D	1		12/27/24	PS122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	570		39 - 175	114%	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\PS122724\
Data File : PS028845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:56
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:09:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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	7.205	7.694	1290.3E6	579.1E6	570.411	514.519

Target Compounds

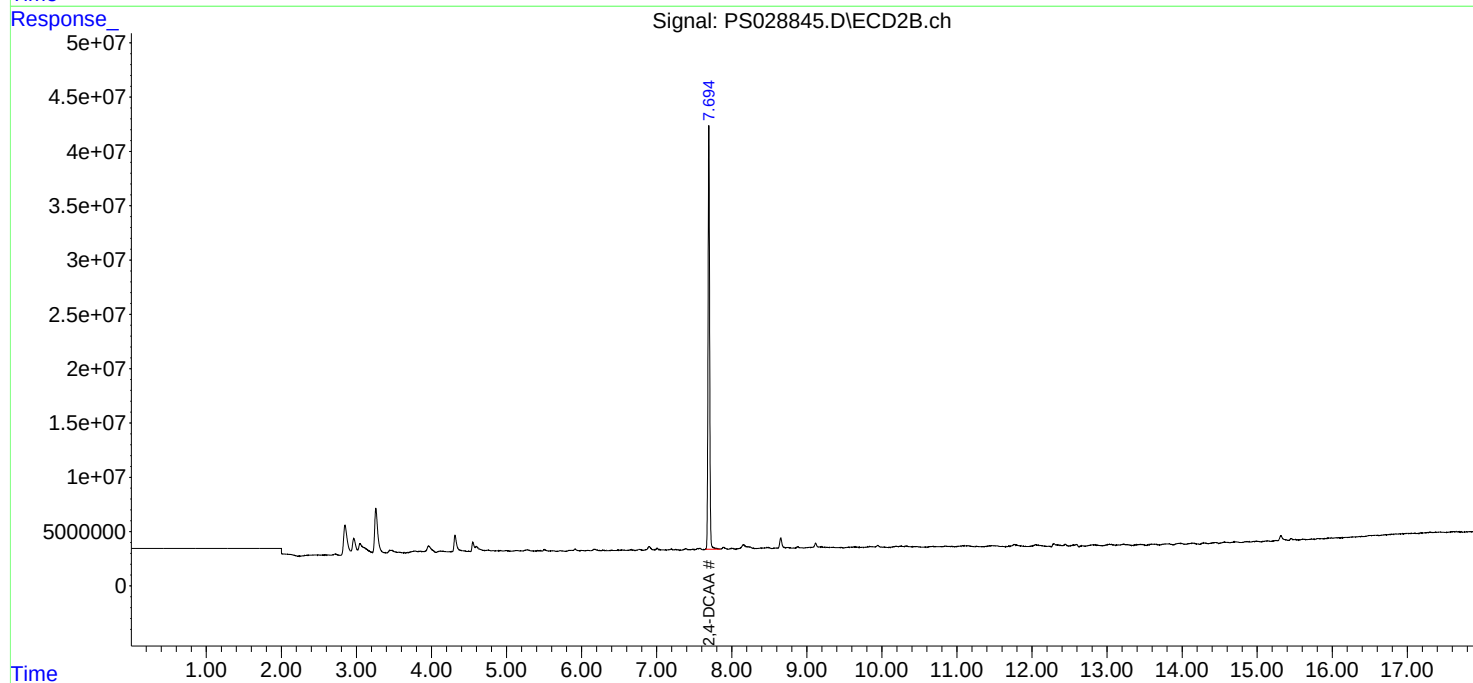
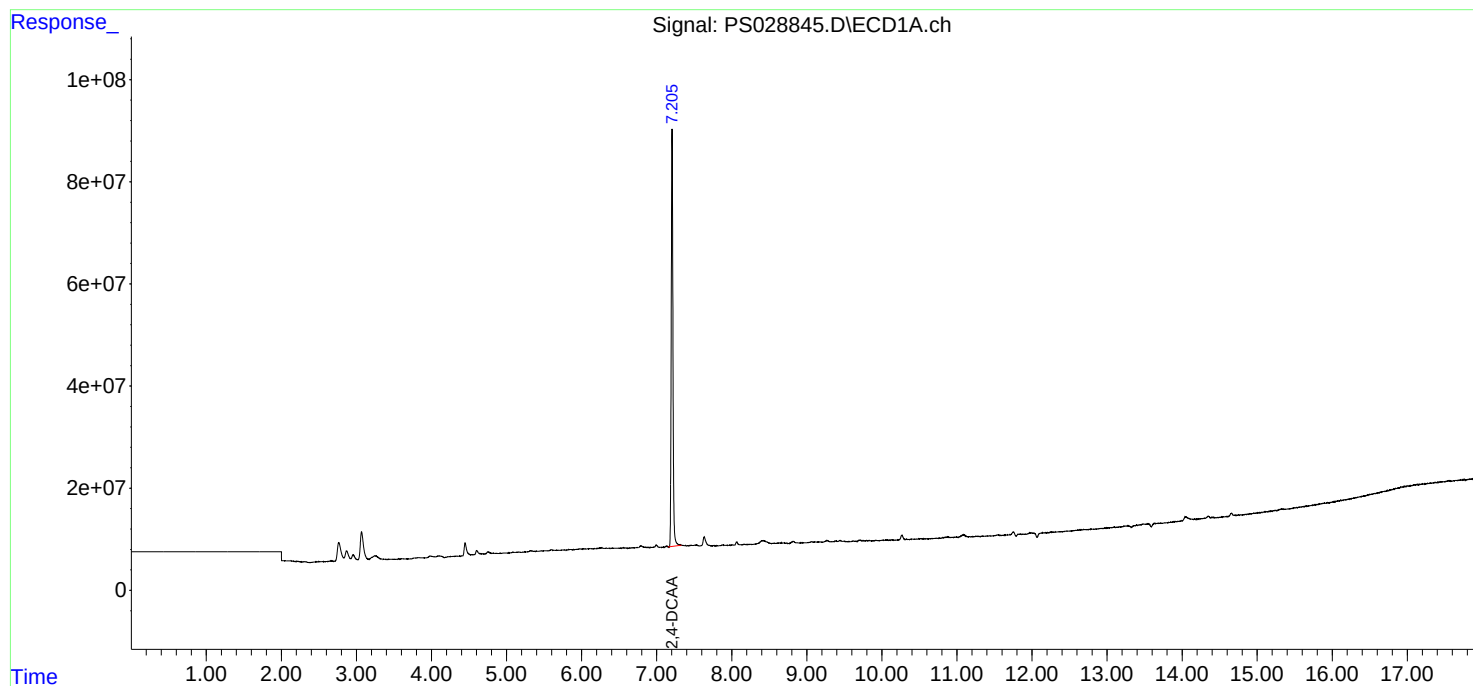
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

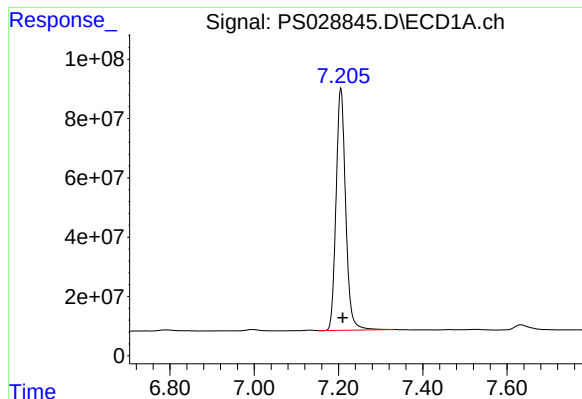
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:56
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:09:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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

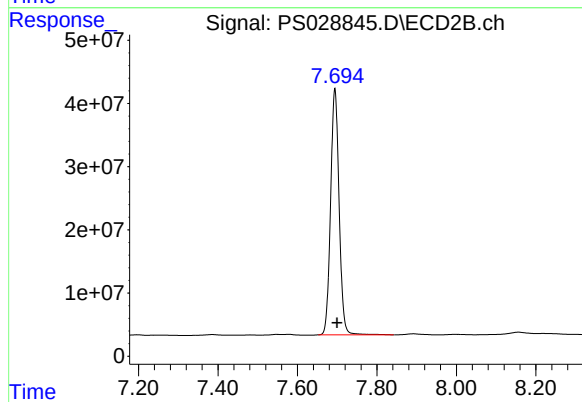




#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.004 min
Response: 1290284073
Conc: 570.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 579109953
Conc: 514.52 ng/ml

Report of Analysis

Client:	PARSONS Main of New York, Inc.	Date Collected:	12/31/24
Project:	Con Ed Non-MGP - East River SI 453648	Date Received:	12/31/24
Client Sample ID:	PIBLK-PS028861.D	SDG No.:	P5362
Lab Sample ID:	I.BLK-PS028861.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028861.D	1		12/31/24	PS123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	591		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\PS123124\
 Data File : PS028861.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Dec 2024 08:35
 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: Jan 01 00:24:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 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	7.207	7.690	1337.7E6	577.2E6	591.368	512.855

Target Compounds

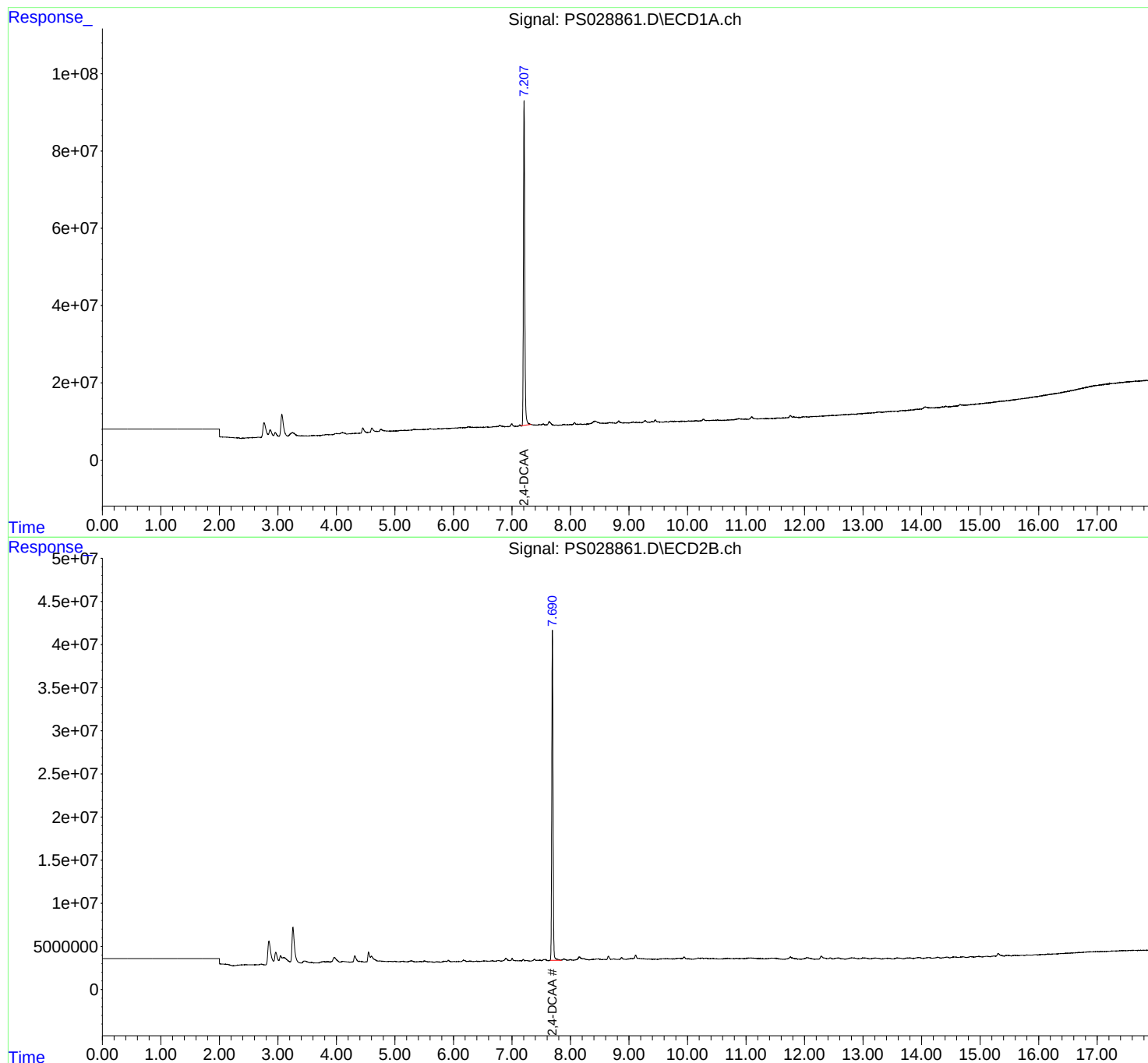
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028861.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 08:35
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

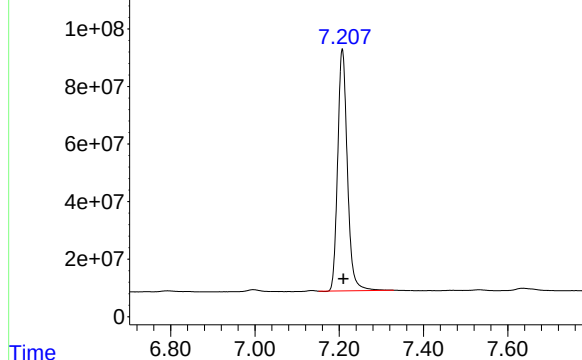
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:24:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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: PS028861.D\ECD1A.ch

#4 2,4-DCAA

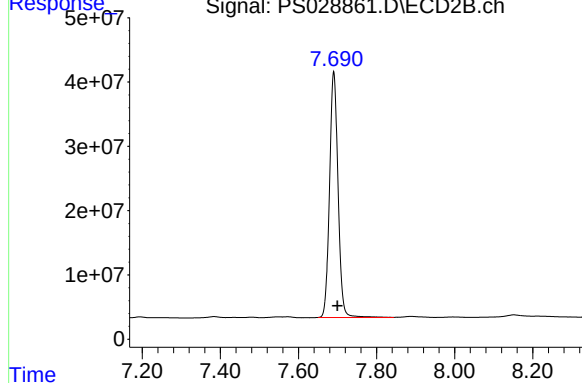


R.T.: 7.207 min
Delta R.T.: -0.002 min
Response: 1337690450
Conc: 591.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028861.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.690 min
Delta R.T.: -0.009 min
Response: 577237788
Conc: 512.86 ng/ml

Report of Analysis

Client:	PARSONS Main of New York, Inc.	Date Collected:	12/31/24
Project:	Con Ed Non-MGP - East River SI 453648	Date Received:	12/31/24
Client Sample ID:	PIBLK-PS028864.D	SDG No.:	P5362
Lab Sample ID:	I.BLK-PS028864.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028864.D	1		12/31/24	PS123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	600		39 - 175	120%	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\PS123124\
Data File : PS028864.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 12:16
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: Jan 01 00:25:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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	7.208	7.691	1357.7E6	584.2E6	600.231	519.000

Target Compounds

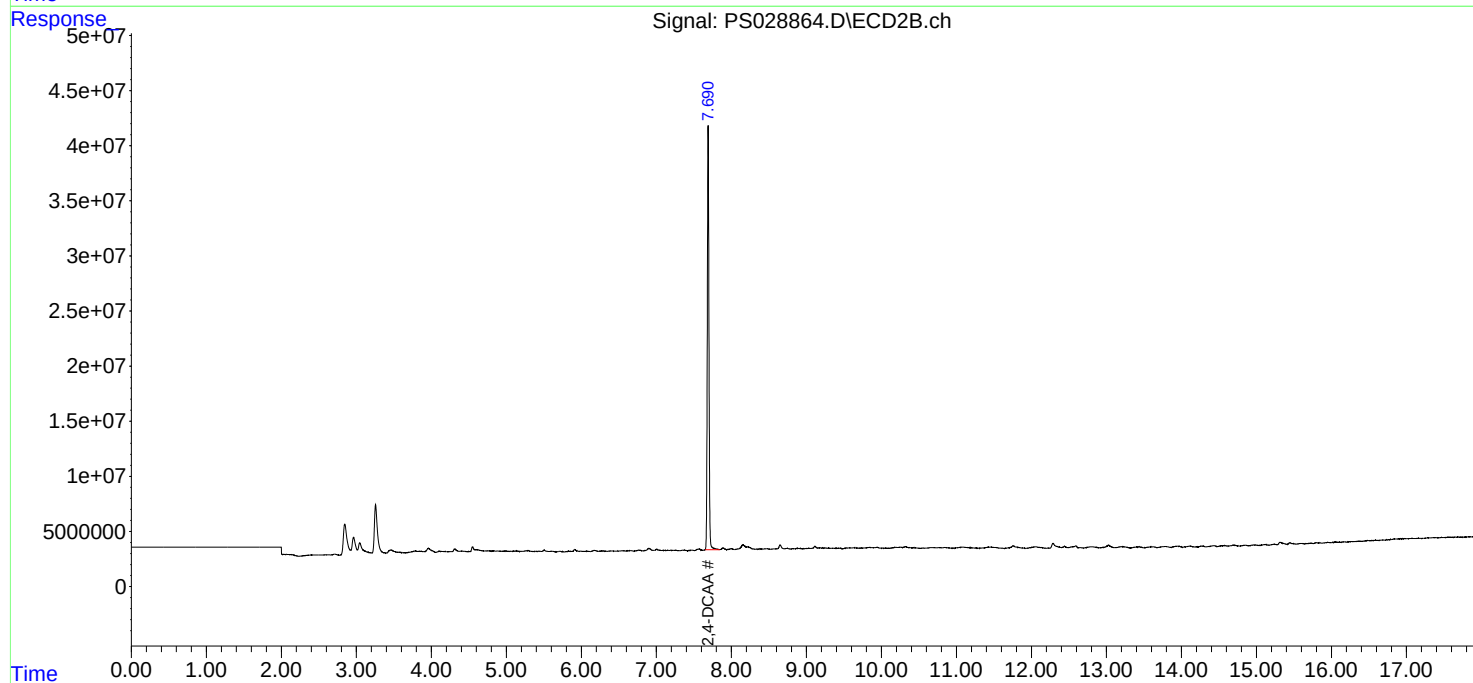
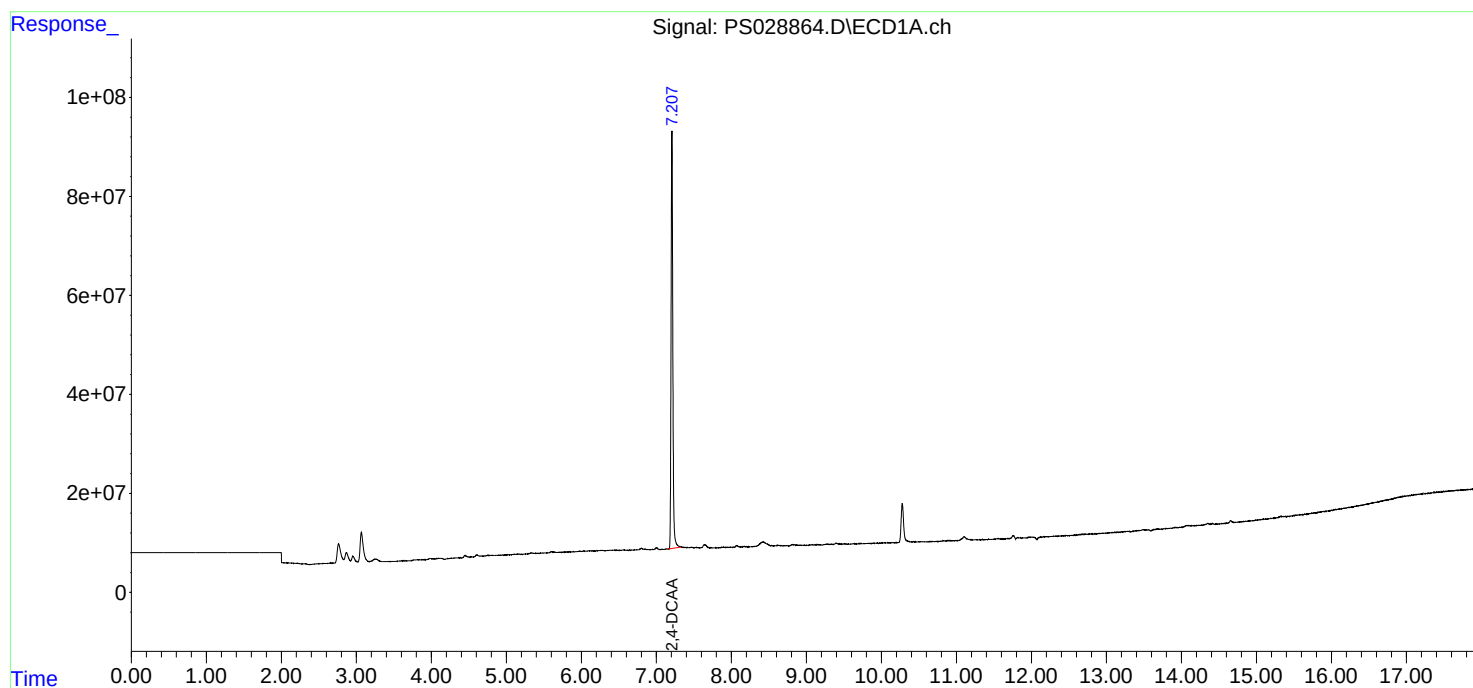
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028864.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 12:16
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

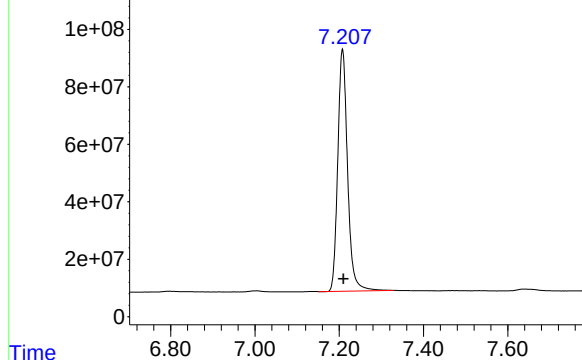
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:25:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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: PS028864.D\ECD1A.ch

#4 2,4-DCAA

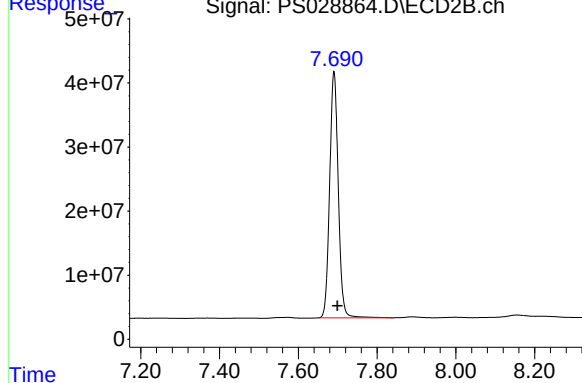


R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 1357737261
Conc: 600.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028864.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.691 min
Delta R.T.: -0.009 min
Response: 584153821
Conc: 519.00 ng/ml

Report of Analysis

Client:	PARSONS Main of New York, Inc.	Date Collected:	
Project:	Con Ed Non-MGP - East River SI 453648	Date Received:	
Client Sample ID:	PB165896BS	SDG No.:	P5362
Lab Sample ID:	PB165896BS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028839.D	1	12/27/24 10:20	12/27/24 21:32	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.30		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.60		0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	575		39 - 175	115%	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\PS122724\
 Data File : PS028839.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Dec 2024 21:32
 Operator : AR\AJ
 Sample : PB165896BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB165896BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 02:08:00 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 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	7.205	7.694	1300.0E6	587.6E6	574.724	522.084
Target Compounds							
1) T	Dalapon	2.620	2.675	1416.2E6	928.5E6	502.788	471.637
2) T	3,5-DICHL...	6.381	6.657	1788.0E6	805.8E6	542.604	486.103
3) T	4-Nitroph...	7.004	7.223	776.6E6	400.4E6	517.046	478.494
5) T	DICAMBA	7.391	7.892	5408.0E6	2690.8E6	548.439	490.139
6) T	MCPD	7.571	7.994	318.9E6	155.2E6	51.204	47.499
7) T	MCPA	7.720	8.236	441.0E6	220.9E6	50.311	47.672
8) T	DICHLORPROP	8.096	8.604	1452.7E6	687.4E6	547.544	498.258
9) T	2,4-D	8.325	8.933	1513.9E6	709.8E6	531.291	491.851
10) T	Pentachlo...	8.622	9.457	22482.0E6	11100.5E6	575.474	509.227
11) T	2,4,5-TP ...	9.198	9.834	8804.5E6	4498.9E6	560.464	500.791
12) T	2,4,5-T	9.490	10.252	9005.1E6	4314.6E6	553.508	495.413
13) T	2,4-DB	10.060	10.817	1640.7E6	481.2E6	525.610	495.513
14) T	DINOSEB	11.266	11.195	7326.0E6	2951.7E6	545.019	479.246
15) T	Picloram	11.076	12.281	14075.6E6	6142.1E6	524.958	478.390
16) T	DCPA	11.561	12.235	13335.1E6	5430.0E6	554.449	505.371

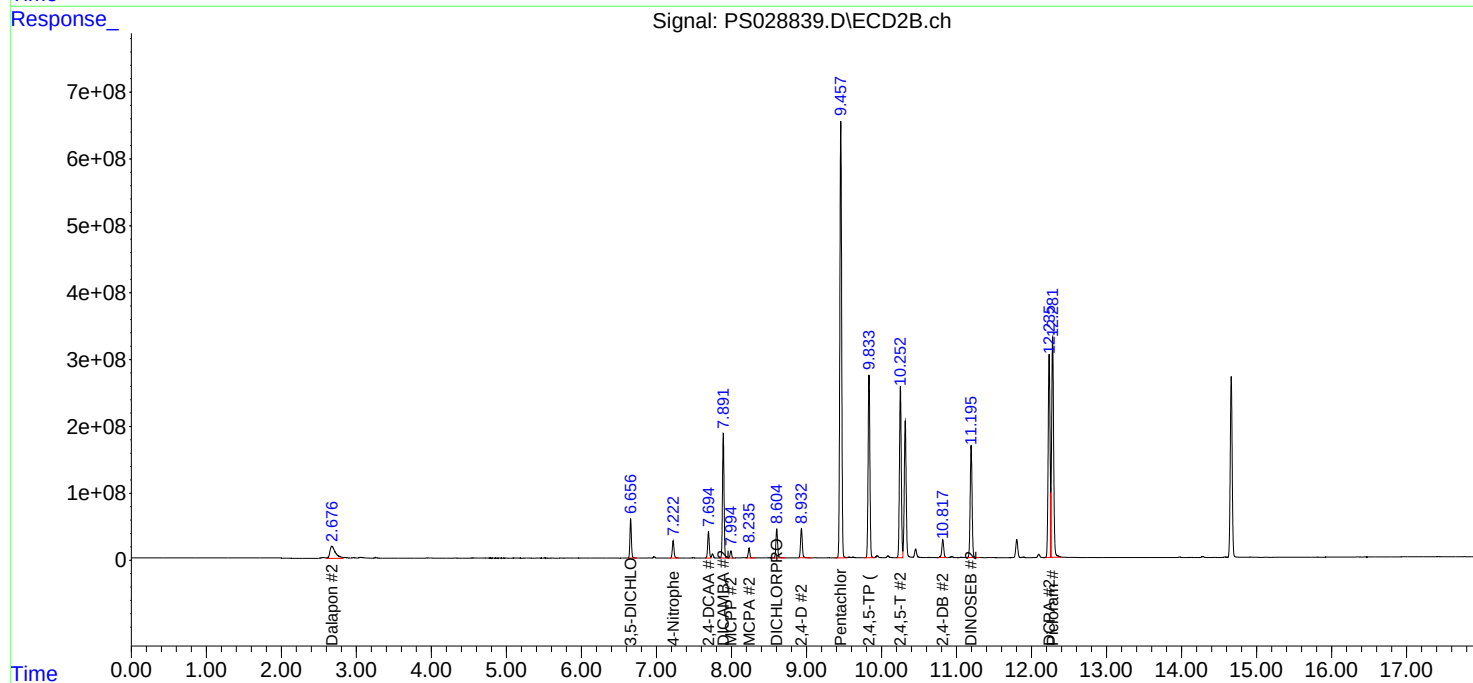
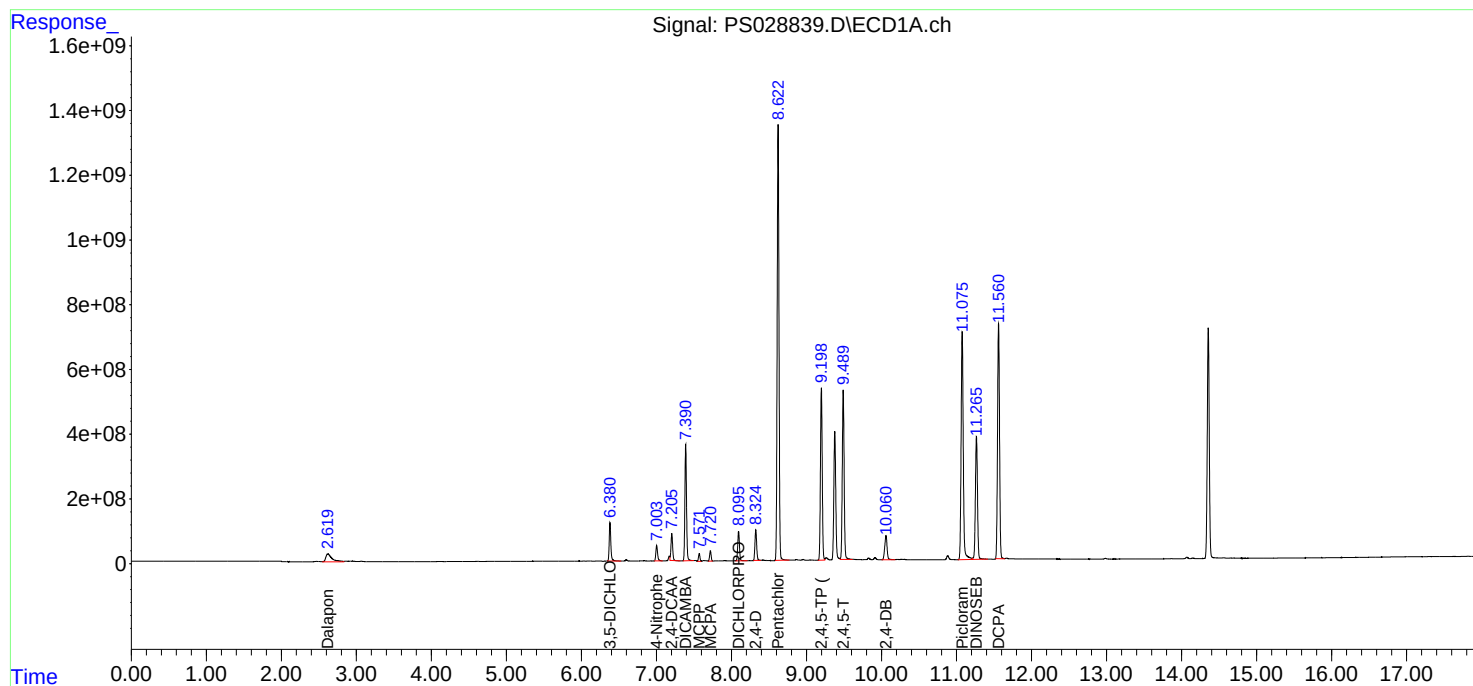
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

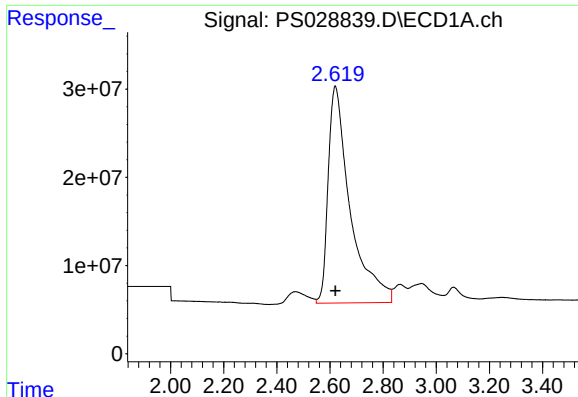
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 21:32
Operator : AR\AJ
Sample : PB165896BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165896BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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

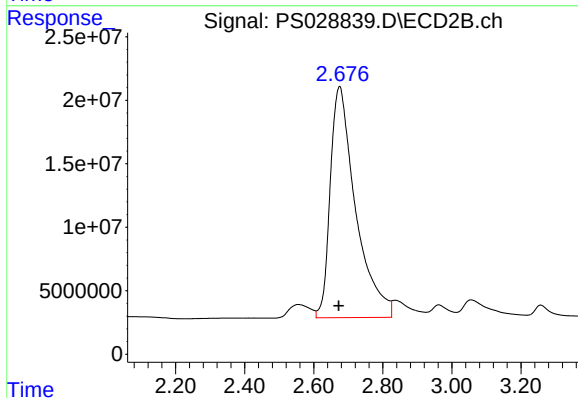




#1 Dalapon

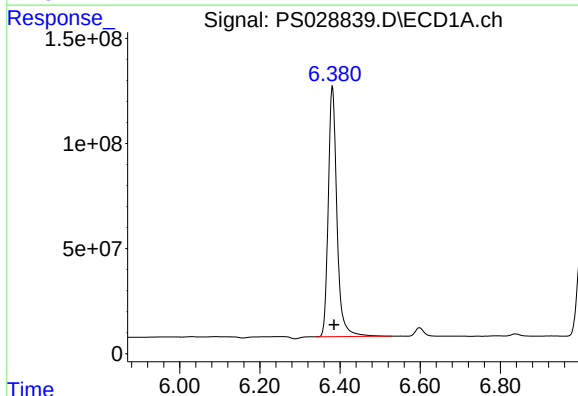
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1416177375
Conc: 502.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



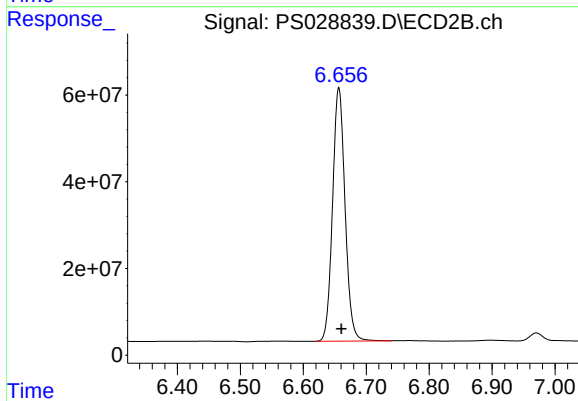
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.002 min
Response: 928466330
Conc: 471.64 ng/ml



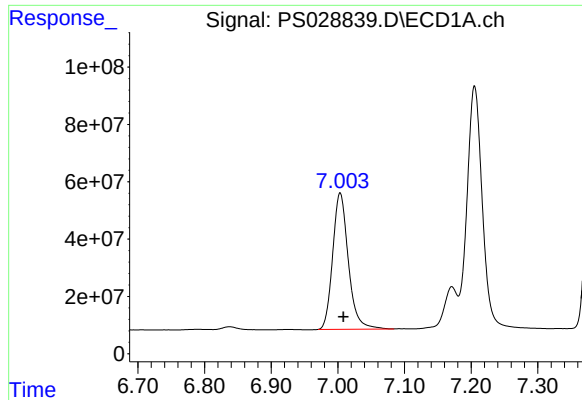
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1787952385
Conc: 542.60 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

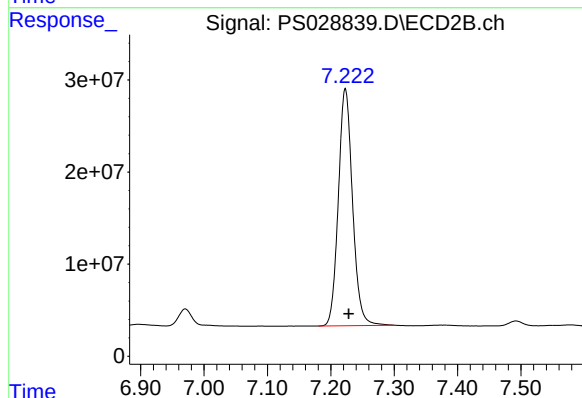
R.T.: 6.657 min
Delta R.T.: -0.004 min
Response: 805750411
Conc: 486.10 ng/ml



#3 4-Nitrophenol

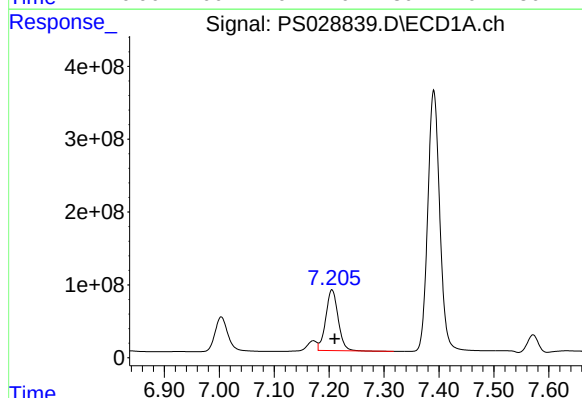
R.T.: 7.004 min
Delta R.T.: -0.005 min
Response: 776633220
Conc: 517.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



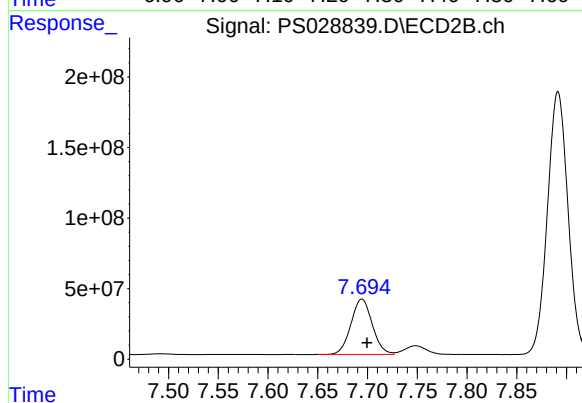
#3 4-Nitrophenol

R.T.: 7.223 min
Delta R.T.: -0.005 min
Response: 400448459
Conc: 478.49 ng/ml



#4 2,4-DCAA

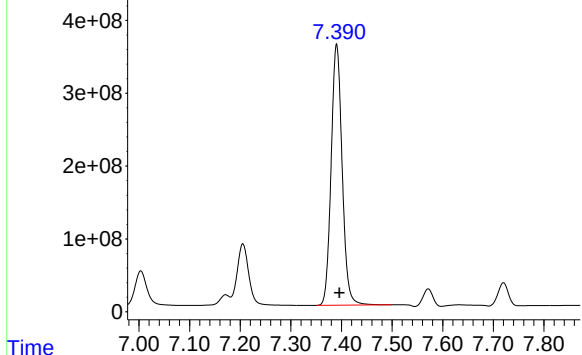
R.T.: 7.205 min
Delta R.T.: -0.005 min
Response: 1300040543
Conc: 574.72 ng/ml



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 587624621
Conc: 522.08 ng/ml

Response_ Signal: PS028839.D\ECD1A.ch

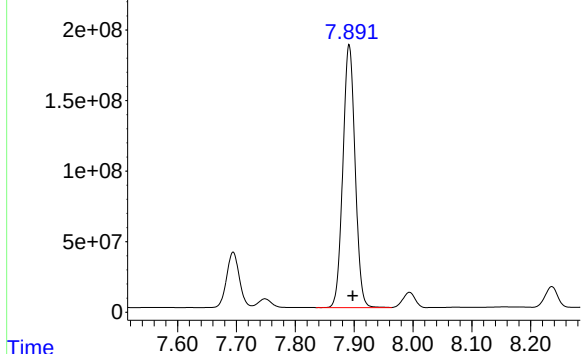


#5 DICAMBA

R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 5407957692
Conc: 548.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS

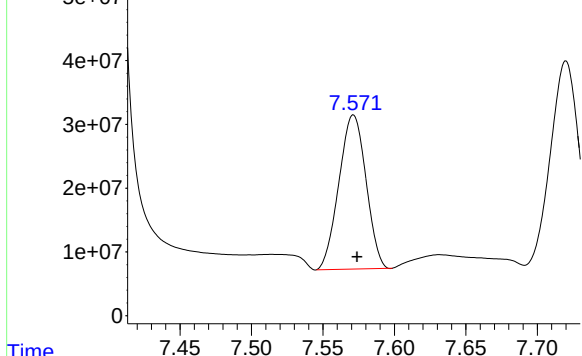
Response_ Signal: PS028839.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.892 min
Delta R.T.: -0.006 min
Response: 2690800765
Conc: 490.14 ng/ml

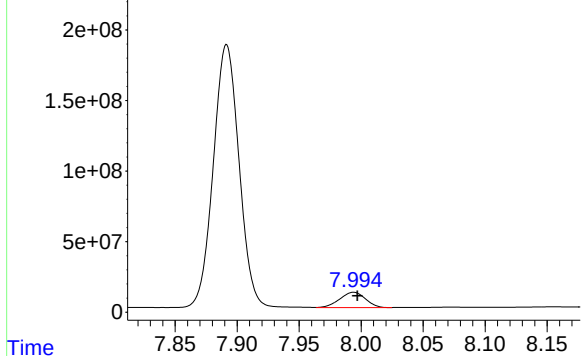
Response_ Signal: PS028839.D\ECD1A.ch



#6 MCP

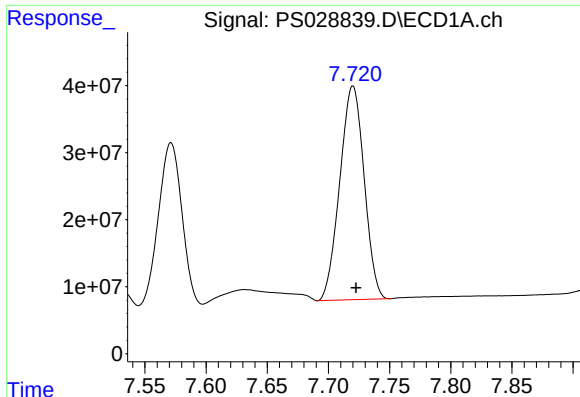
R.T.: 7.571 min
Delta R.T.: -0.003 min
Response: 318858732
Conc: 51.20 ug/ml

Response_ Signal: PS028839.D\ECD2B.ch



#6 MCP

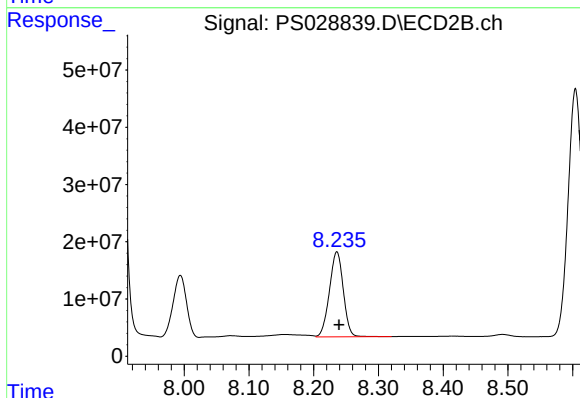
R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 155216681
Conc: 47.50 ug/ml



#7 MCPA

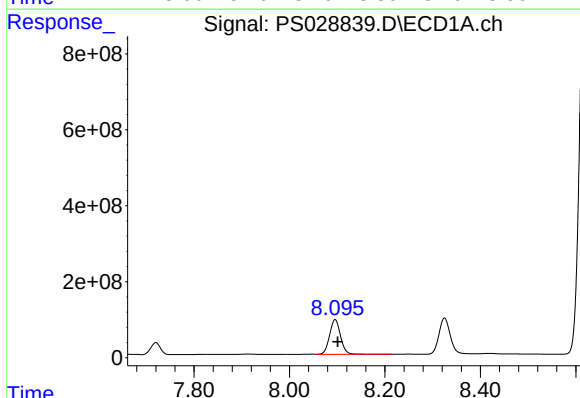
R.T.: 7.720 min
Delta R.T.: -0.003 min
Response: 440997958
Conc: 50.31 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



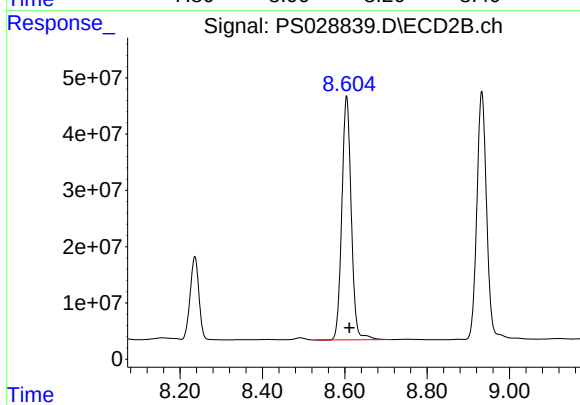
#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 220858361
Conc: 47.67 ug/ml



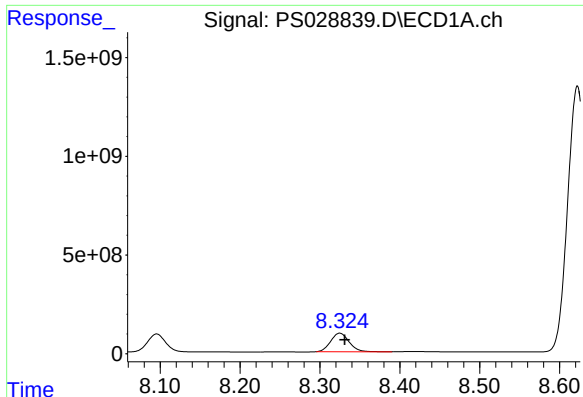
#8 DICHLORPROP

R.T.: 8.096 min
Delta R.T.: -0.005 min
Response: 1452731640
Conc: 547.54 ng/ml



#8 DICHLORPROP

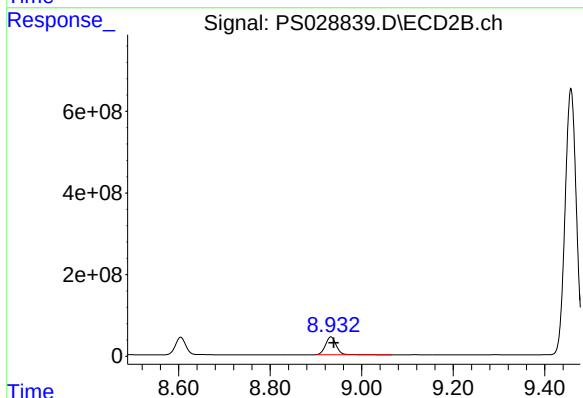
R.T.: 8.604 min
Delta R.T.: -0.007 min
Response: 687425227
Conc: 498.26 ng/ml



#9 2,4-D

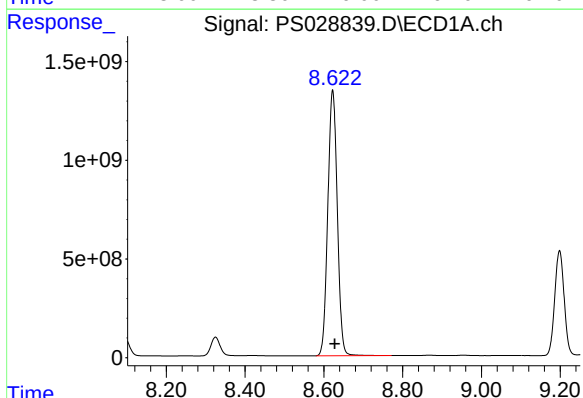
R.T.: 8.325 min
Delta R.T.: -0.006 min
Response: 1513932162
Conc: 531.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



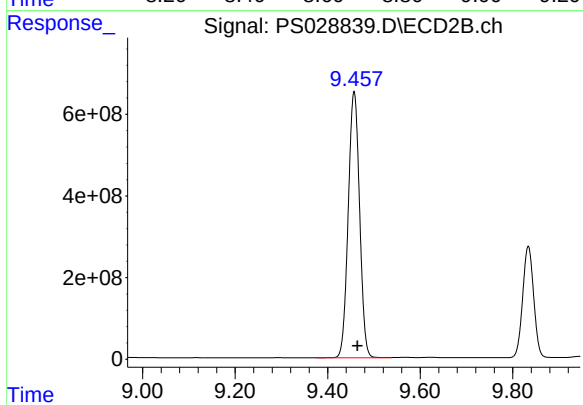
#9 2,4-D

R.T.: 8.933 min
Delta R.T.: -0.007 min
Response: 709812572
Conc: 491.85 ng/ml



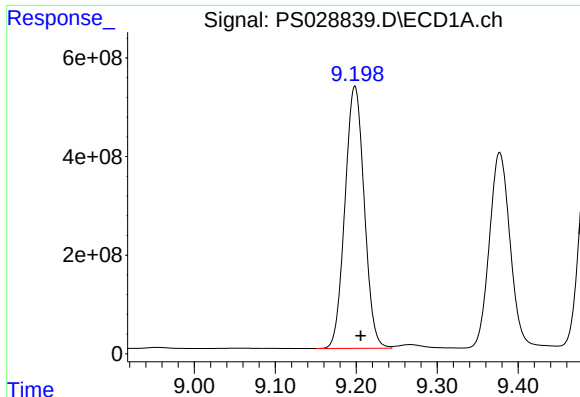
#10 Pentachlorophenol

R.T.: 8.622 min
Delta R.T.: -0.006 min
Response: 22482023994
Conc: 575.47 ng/ml



#10 Pentachlorophenol

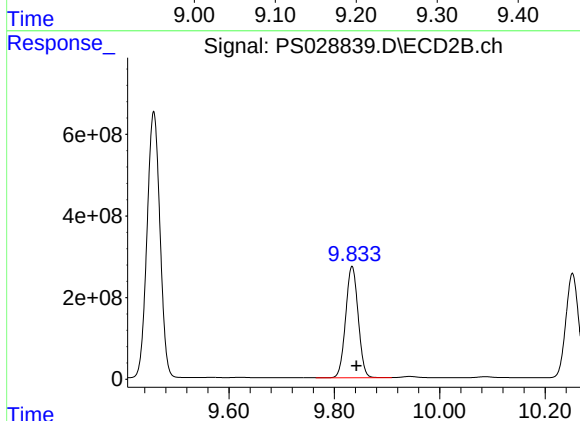
R.T.: 9.457 min
Delta R.T.: -0.007 min
Response: 11100495688
Conc: 509.23 ng/ml



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

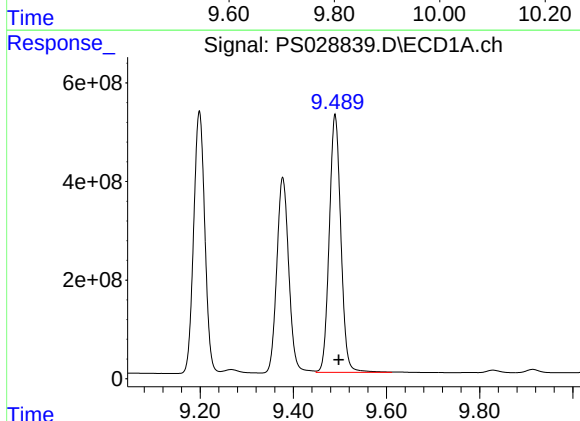
R.T.: 9.198 min
Delta R.T.: -0.007 min
Response: 8804516352
Conc: 560.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



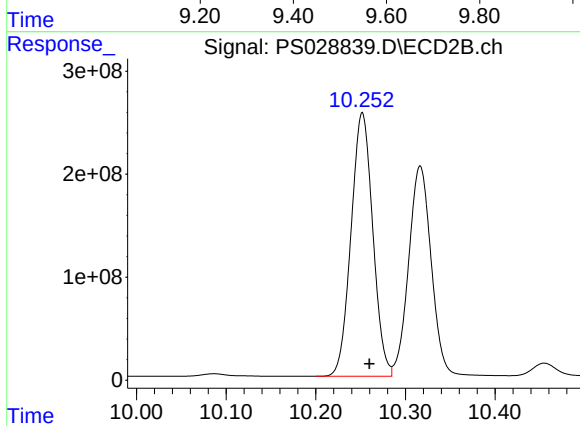
#11 2,4,5-TP (SILVEX)

R.T.: 9.834 min
Delta R.T.: -0.008 min
Response: 4498865182
Conc: 500.79 ng/ml



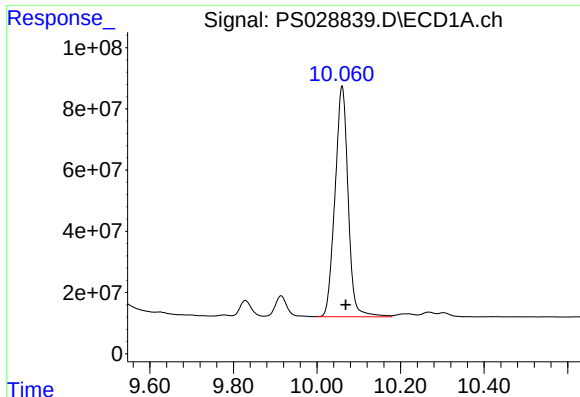
#12 2,4,5-T

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 9005118941
Conc: 553.51 ng/ml



#12 2,4,5-T

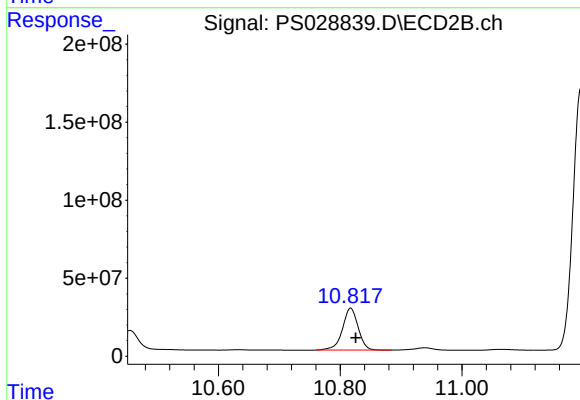
R.T.: 10.252 min
Delta R.T.: -0.008 min
Response: 4314644169
Conc: 495.41 ng/ml



#13 2,4-DB

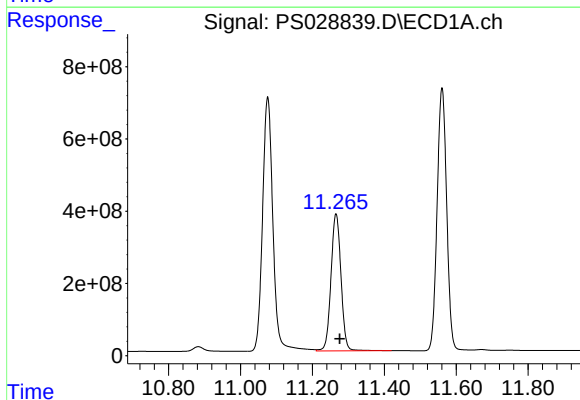
R.T.: 10.060 min
Delta R.T.: -0.009 min
Response: 1640744202
Conc: 525.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



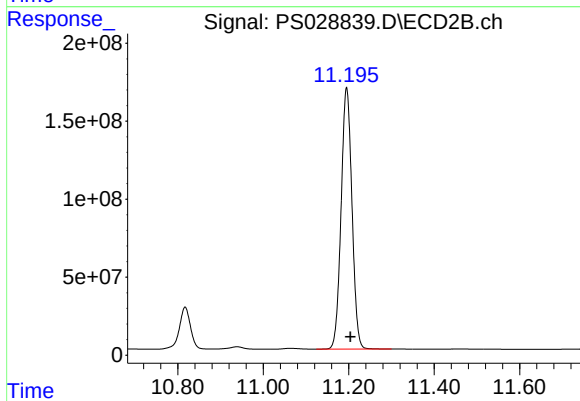
#13 2,4-DB

R.T.: 10.817 min
Delta R.T.: -0.009 min
Response: 481191163
Conc: 495.51 ng/ml



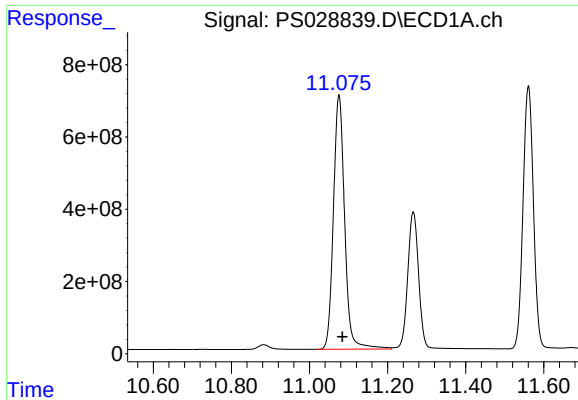
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 7326003067
Conc: 545.02 ng/ml



#14 DINOSEB

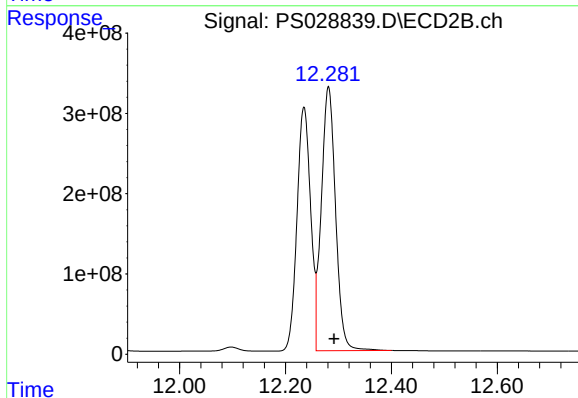
R.T.: 11.195 min
Delta R.T.: -0.009 min
Response: 2951747356
Conc: 479.25 ng/ml



#15 Picloram

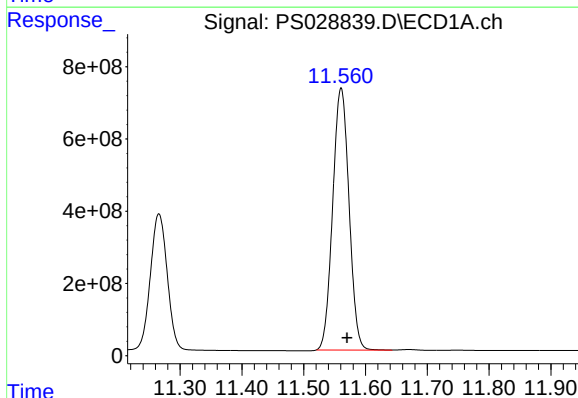
R.T.: 11.076 min
Delta R.T.: -0.009 min
Response: 14075585645
Conc: 524.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



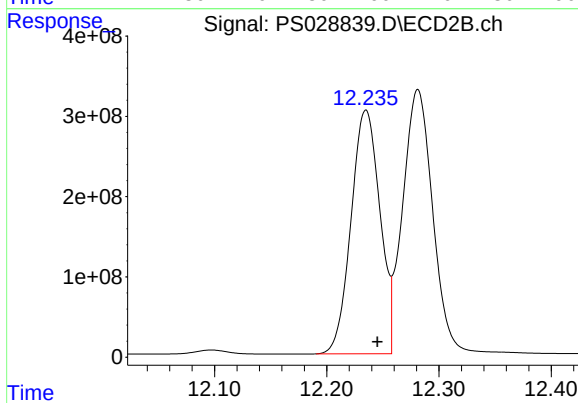
#15 Picloram

R.T.: 12.281 min
Delta R.T.: -0.011 min
Response: 6142057730
Conc: 478.39 ng/ml



#16 DCPA

R.T.: 11.561 min
Delta R.T.: -0.010 min
Response: 13335067486
Conc: 554.45 ng/ml



#16 DCPA

R.T.: 12.235 min
Delta R.T.: -0.010 min
Response: 5429993662
Conc: 505.37 ng/ml

Report of Analysis

Client:	PARSONS Main of New York, Inc.		Date Collected:	12/19/24	
Project:	Con Ed Non-MGP - East River SI 453648		Date Received:	12/19/24	
Client Sample ID:	WC-SOIL-20241219MS		SDG No.:	P5362	
Lab Sample ID:	P5362-02MS		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	100	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028842.D	1	12/27/24 10:20	12/27/24 22:44	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	56.3		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	60.6		4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	716		39 - 175	143%	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\PS122724\
 Data File : PS028842.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Dec 2024 22:44
 Operator : AR\AJ
 Sample : P5362-02MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-SOIL-20241219MS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
 Supervised By :Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 02:08:38 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 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	7.206	7.694	1619.3E6	443.8E6	715.849	394.257 #
Target Compounds							
1) T	Dalapon	2.620	2.675	843.8E6	1084.9E6	299.590m	551.093m#
2) T	3,5-DICHL...	6.381	6.656	1757.9E6	745.9E6	533.475	449.988m
3) T	4-Nitroph...	6.992	0.000	22530972	0	15.000m	N.D. d#
5) T	DICAMBA	7.391	7.892	4667.2E6	2441.6E6	473.321	444.744
6) T	MCP P	7.571	7.994	263.5E6	147.8E6	42.321	45.219
7) T	MCPA	7.720	8.236	369.3E6	276.5E6	42.127	59.674 #
8) T	DICHLORPROP	8.095	8.605	1320.6E6	615.8E6	497.759	446.362
9) T	2,4-D	8.324	8.932	1603.6E6	732.3E6	562.743m	507.454
10) T	Pentachlo...	8.622	9.457	18222.1E6	8884.3E6	466.432	407.559
11) T	2,4,5-TP ...	9.198	9.835	8847.5E6	5441.1E6	563.203	605.678
12) T	2,4,5-T	9.489	10.251	8215.0E6	4038.2E6	504.941	463.676
13) T	2,4-DB	10.062	10.816	1300.3E6	401.2E6	416.548	413.128
14) T	DINOSEB	11.266	11.195	4317.7E6	1828.8E6	321.214	296.920
15) T	Picloram	11.075	12.281	11399.3E6	4960.0E6	425.145	386.326
16) T	DCPA	11.559	12.234	10341.9E6	4998.6E6	429.997	465.218

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 22:44
Operator : AR\AJ
Sample : P5362-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

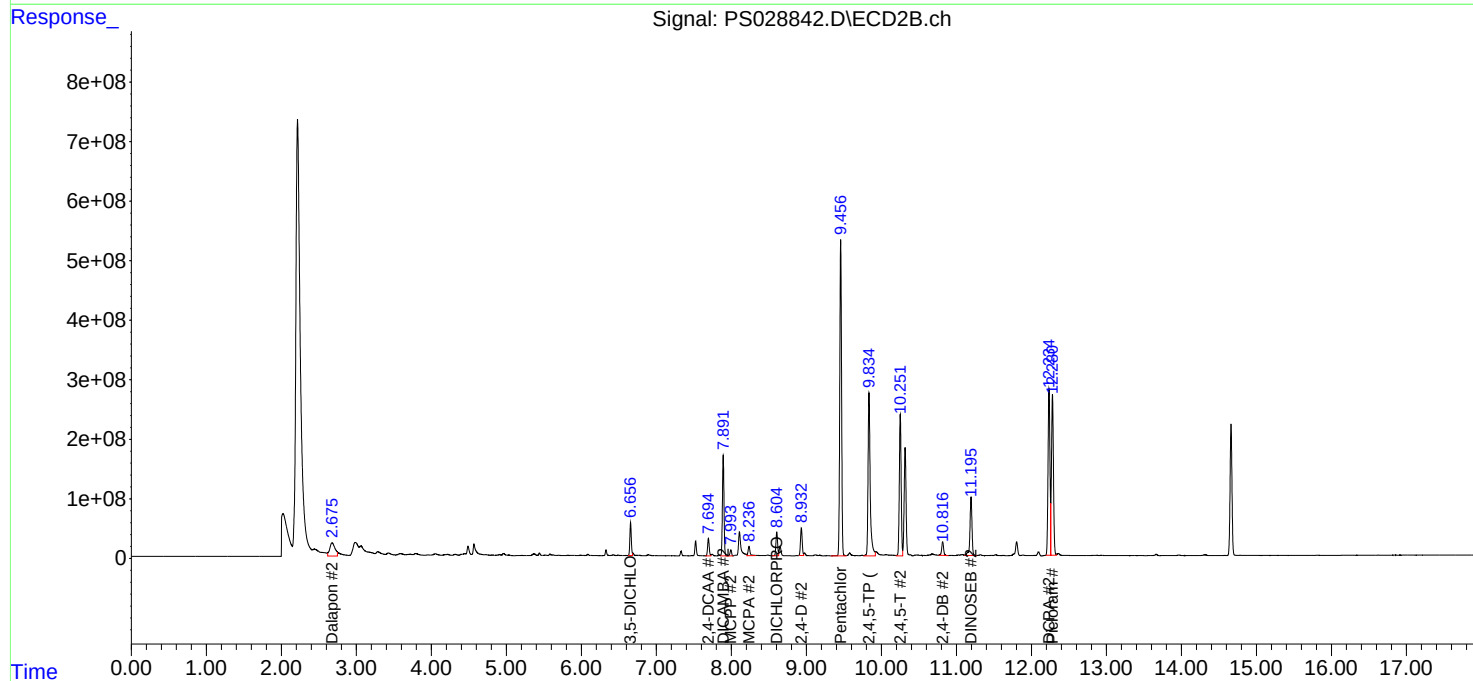
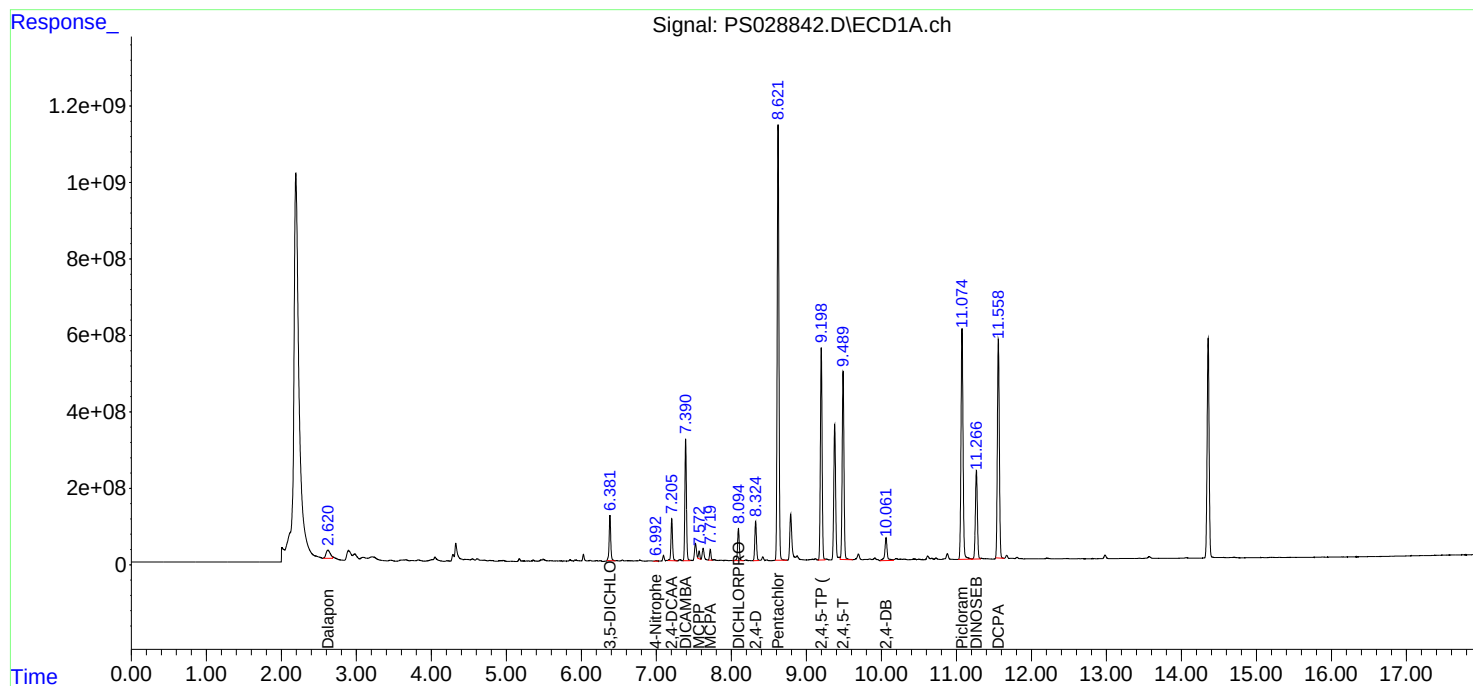
Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

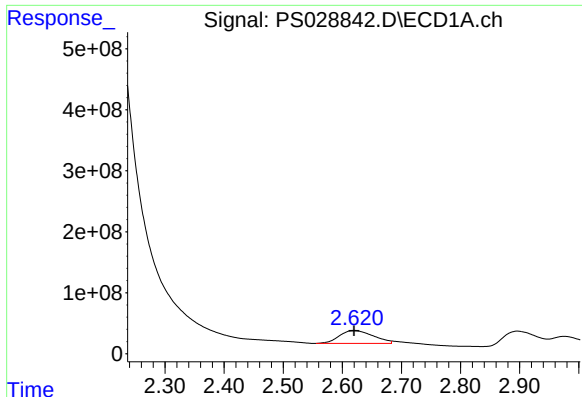
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 12/30/2024
Supervised By : Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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





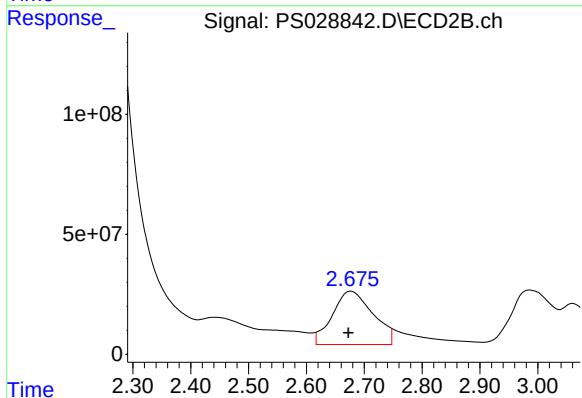
#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 843839623
Conc: 299.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

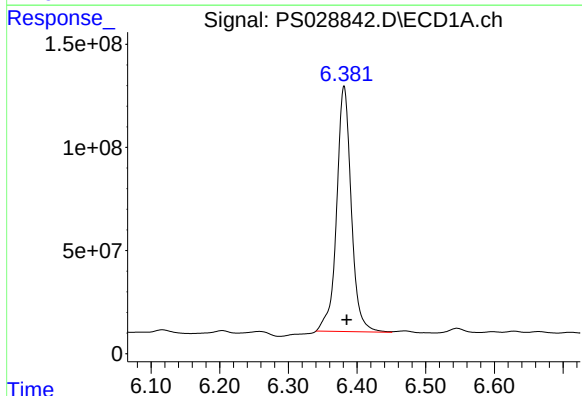
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



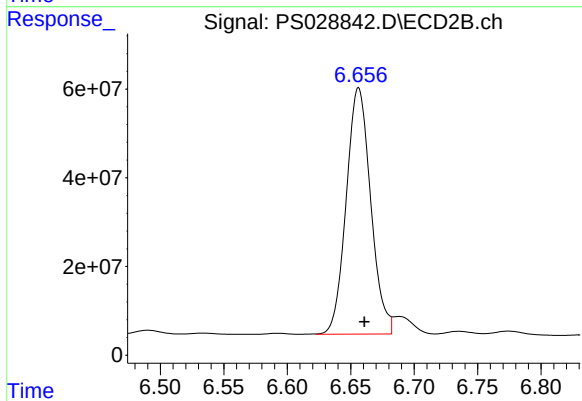
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.002 min
Response: 1084882891
Conc: 551.09 ng/ml m



#2 3,5-DICHLOROBENZOIC ACID

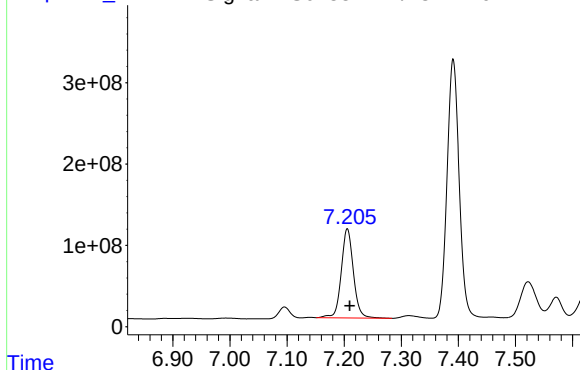
R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1757871041
Conc: 533.47 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.656 min
Delta R.T.: -0.005 min
Response: 745888388
Conc: 449.99 ng/ml m

Response_ Signal: PS028842.D\ECD1A.ch



#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 1619268098
Conc: 715.85 ng/ml

Instrument :

ECD_S

ClientSampleId :

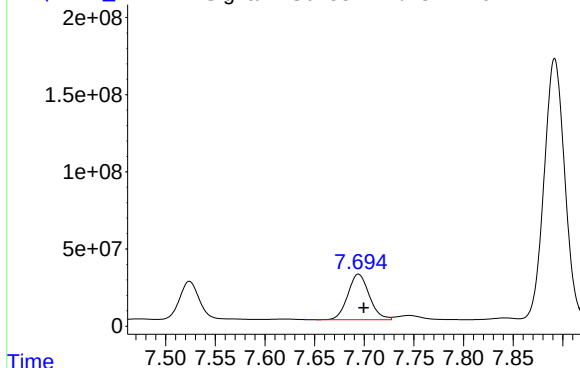
WC-SOIL-20241219MS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

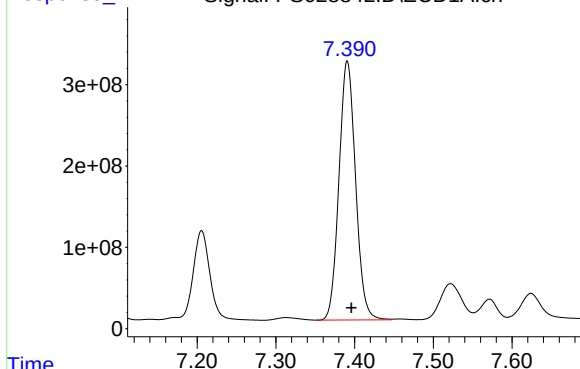
Time Response_ Signal: PS028842.D\ECD2B.ch



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 443751426
Conc: 394.26 ng/ml

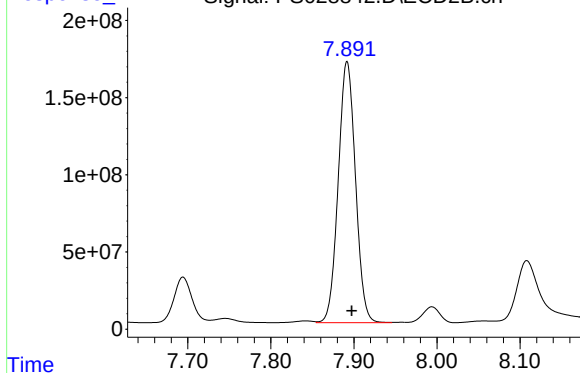
Time Response_ Signal: PS028842.D\ECD1A.ch



#5 DICAMBA

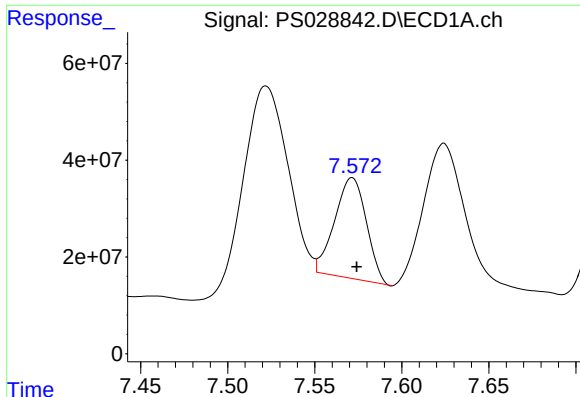
R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 4667249294
Conc: 473.32 ng/ml

Time Response_ Signal: PS028842.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.892 min
Delta R.T.: -0.006 min
Response: 2441586467
Conc: 444.74 ng/ml



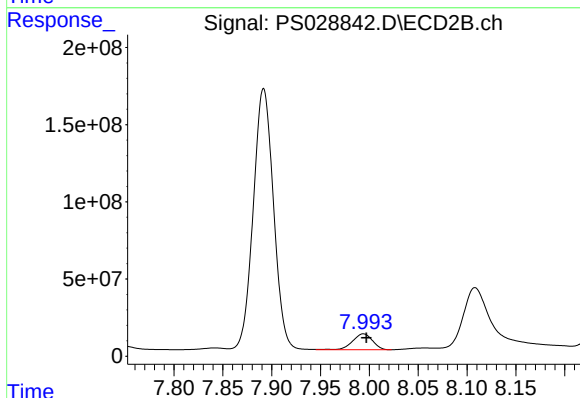
#6 MCP

R.T.: 7.571 min
Delta R.T.: -0.003 min
Response: 263543280
Conc: 42.32 ug/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

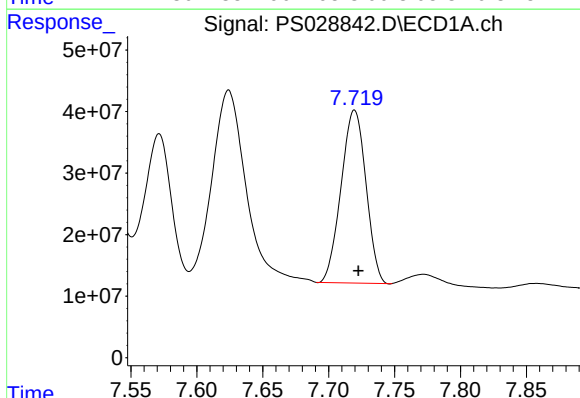
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



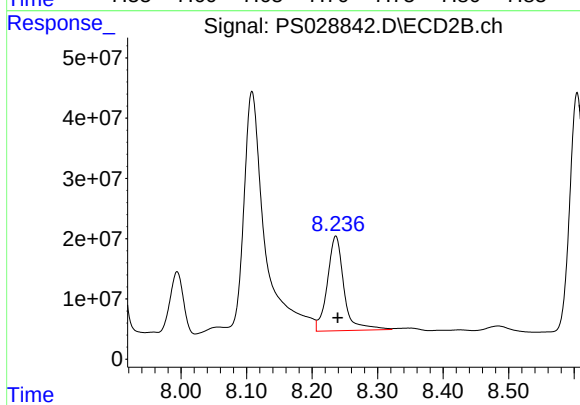
#6 MCP

R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 147766382
Conc: 45.22 ug/ml



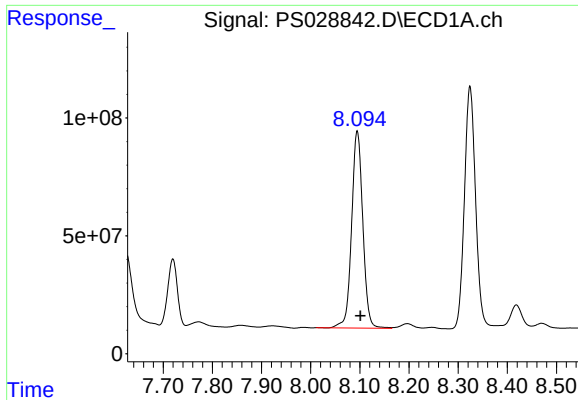
#7 MCPA

R.T.: 7.720 min
Delta R.T.: -0.003 min
Response: 369261786
Conc: 42.13 ug/ml



#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 276461146
Conc: 59.67 ug/ml



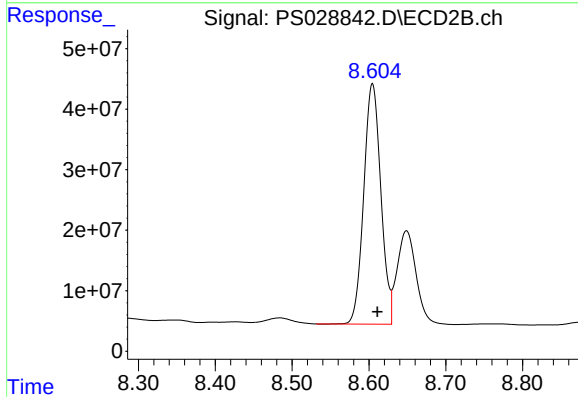
#8 DICHLORPROP

R.T.: 8.095 min
Delta R.T.: -0.006 min
Response: 1320642746
Conc: 497.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

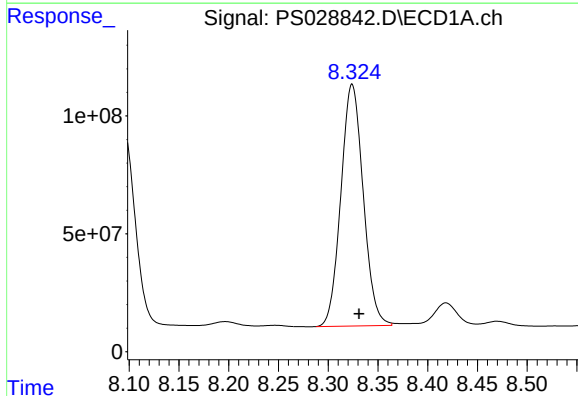
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



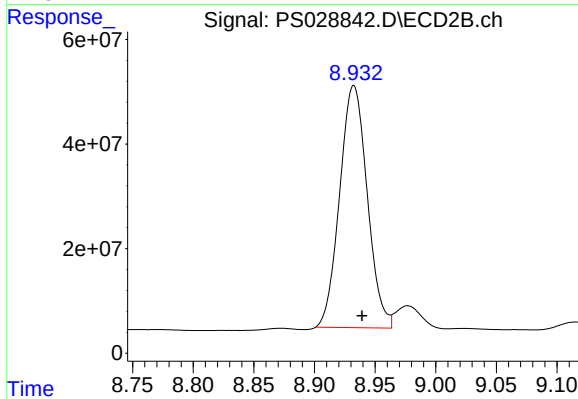
#8 DICHLORPROP

R.T.: 8.605 min
Delta R.T.: -0.007 min
Response: 615826659
Conc: 446.36 ng/ml



#9 2,4-D

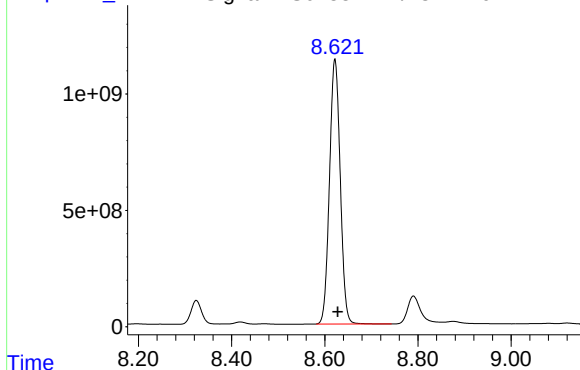
R.T.: 8.324 min
Delta R.T.: -0.008 min
Response: 1603555294
Conc: 562.74 ng/ml m



#9 2,4-D

R.T.: 8.932 min
Delta R.T.: -0.007 min
Response: 732329351
Conc: 507.45 ng/ml

Signal: PS028842.D\ECD1A.ch



#10 Pentachlorophenol

R.T.: 8.622 min
Delta R.T.: -0.006 min
Response: 18222081326
Conc: 466.43 ng/ml

Instrument :

ECD_S

ClientSampleId :

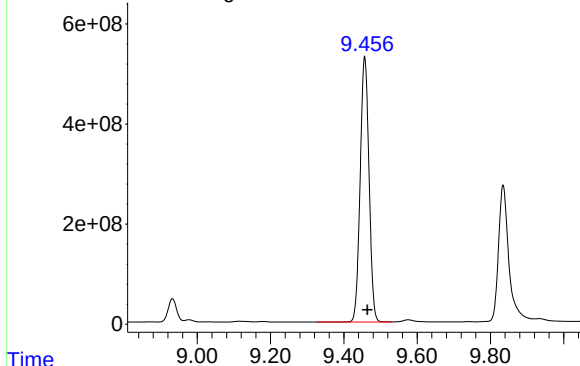
WC-SOIL-20241219MS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

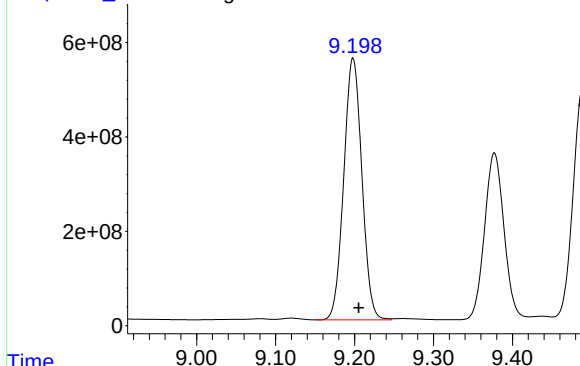
Signal: PS028842.D\ECD2B.ch



#10 Pentachlorophenol

R.T.: 9.457 min
Delta R.T.: -0.007 min
Response: 8884255255
Conc: 407.56 ng/ml

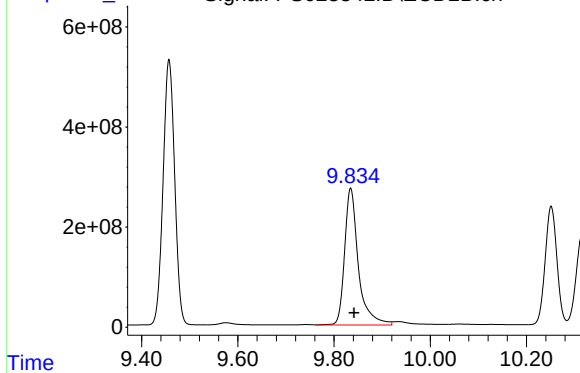
Signal: PS028842.D\ECD1A.ch



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

R.T.: 9.198 min
Delta R.T.: -0.007 min
Response: 8847543543
Conc: 563.20 ng/ml

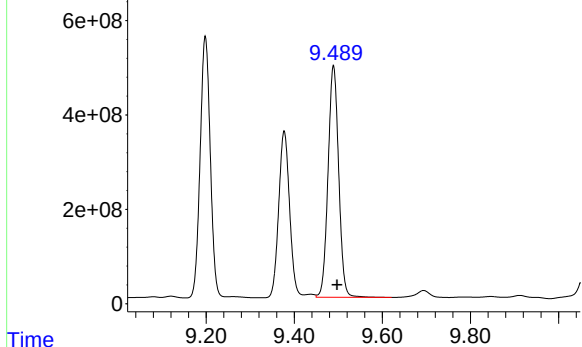
Signal: PS028842.D\ECD2B.ch



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

R.T.: 9.835 min
Delta R.T.: -0.007 min
Response: 5441119823
Conc: 605.68 ng/ml

Response_ Signal: PS028842.D\ECD1A.ch



#12 2,4,5-T

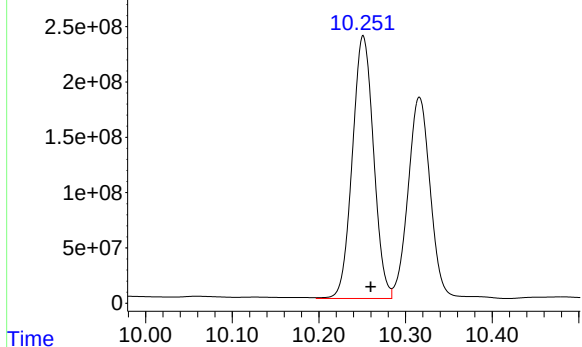
R.T.: 9.489 min
Delta R.T.: -0.009 min
Response: 8214982918
Conc: 504.94 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

**Manual Integrations
APPROVED**

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

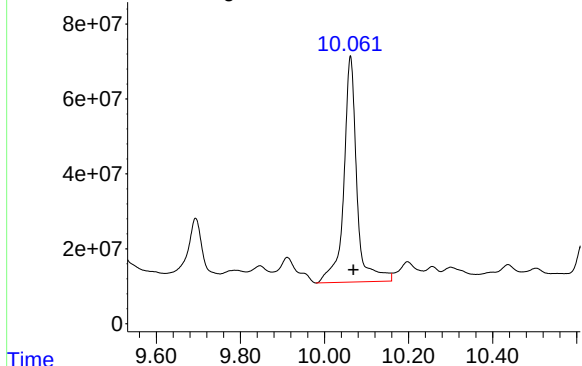
Response_ Signal: PS028842.D\ECD2B.ch



#12 2,4,5-T

R.T.: 10.251 min
Delta R.T.: -0.009 min
Response: 4038236865
Conc: 463.68 ng/ml

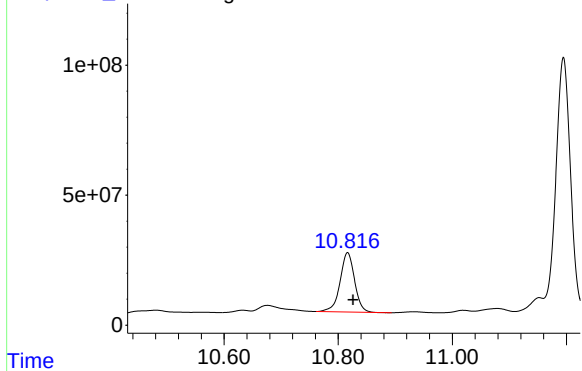
Response_ Signal: PS028842.D\ECD1A.ch



#13 2,4-DB

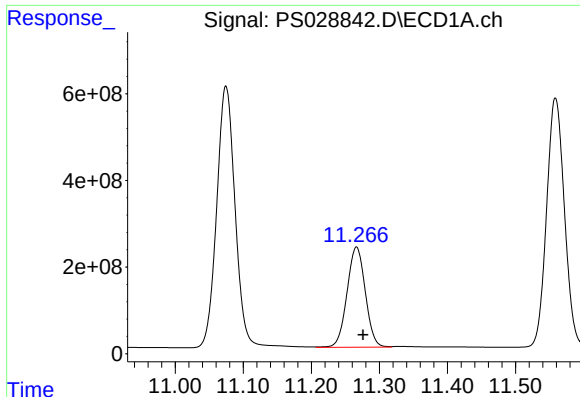
R.T.: 10.062 min
Delta R.T.: -0.007 min
Response: 1300294089
Conc: 416.55 ng/ml

Response_ Signal: PS028842.D\ECD2B.ch



#13 2,4-DB

R.T.: 10.816 min
Delta R.T.: -0.009 min
Response: 401187575
Conc: 413.13 ng/ml



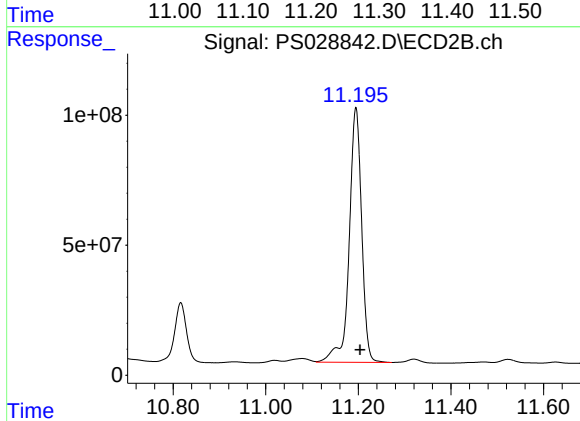
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 4317674741
Conc: 321.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

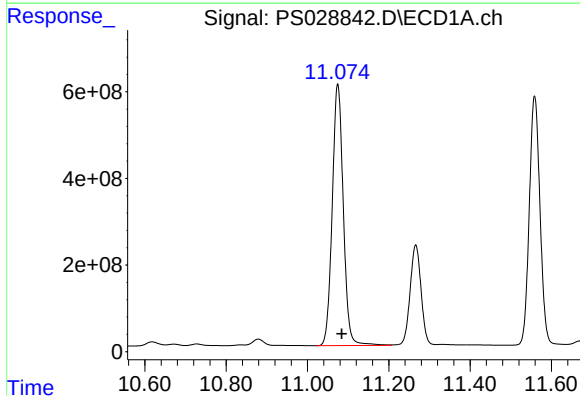
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



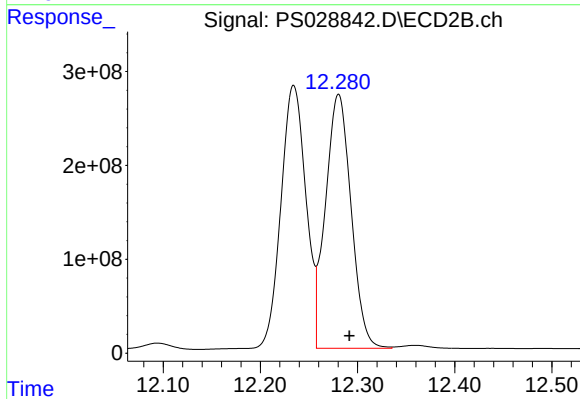
#14 DINOSEB

R.T.: 11.195 min
Delta R.T.: -0.009 min
Response: 1828773162
Conc: 296.92 ng/ml



#15 Picloram

R.T.: 11.075 min
Delta R.T.: -0.010 min
Response: 11399310902
Conc: 425.14 ng/ml



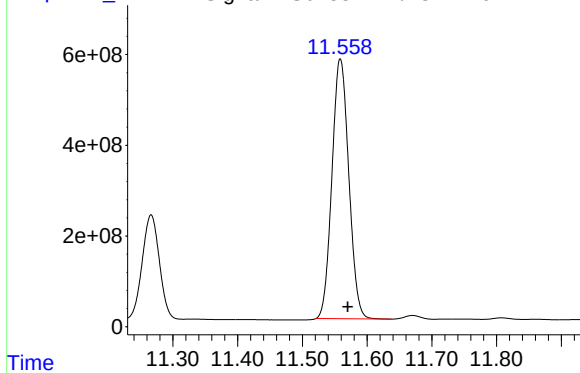
#15 Picloram

R.T.: 12.281 min
Delta R.T.: -0.011 min
Response: 4960040884
Conc: 386.33 ng/ml

Response_

Signal: PS028842.D\ECD1A.ch

#16 DCPA



R.T.: 11.559 min
Delta R.T.: -0.011 min
Response: 10341882538
Conc: 430.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

Manual Integrations
APPROVED

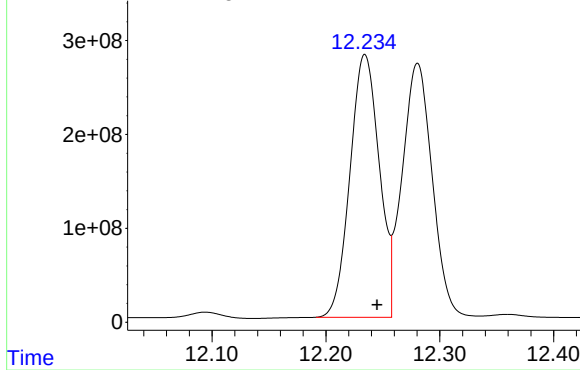
Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

Time

Response_

Signal: PS028842.D\ECD2B.ch

#16 DCPA



R.T.: 12.234 min
Delta R.T.: -0.011 min
Response: 4998573728
Conc: 465.22 ng/ml

Report of Analysis

Client:	PARSONS Main of New York, Inc.	Date Collected:	12/19/24
Project:	Con Ed Non-MGP - East River SI 453648	Date Received:	12/19/24
Client Sample ID:	WC-SOIL-20241219MSD	SDG No.:	P5362
Lab Sample ID:	P5362-02MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028843.D	1	12/27/24 10:20	12/27/24 23:08	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	55.1		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	62.5		4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	715		39 - 175	143%	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\PS122724\
 Data File : PS028843.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Dec 2024 23:08
 Operator : AR\AJ
 Sample : P5362-02MSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-SOIL-20241219MSD

Manual Integrations
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Reviewed By :Abdul Mirza 12/30/2024
 Supervised By :Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 02:08:49 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 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	7.206	7.695	1618.0E6	443.5E6	715.295	394.029 #
Target Compounds							
1) T	Dalapon	2.623	2.677	895.4E6	1165.9E6	317.909m	592.243m#
2) T	3,5-DICHL...	6.381	6.656	1747.6E6	744.4E6	530.351	449.063m
5) T	DICAMBA	7.391	7.892	4678.5E6	2439.7E6	474.466	444.401
6) T	MCP	7.571	7.994	269.2E6	147.1E6	43.234	45.008
7) T	MCPA	7.720	8.236	369.6E6	271.0E6	42.165	58.489 #
8) T	DICHLORPROP	8.096	8.605	1307.4E6	618.0E6	492.757	447.973
9) T	2,4-D	8.325	8.933	1570.4E6	727.6E6	551.092	504.185
10) T	Pentachlo...	8.622	9.457	18250.9E6	8870.3E6	467.169	406.916
11) T	2,4,5-TP ...	9.198	9.835	8848.1E6	5610.4E6	563.238	624.527
12) T	2,4,5-T	9.489	10.251	8228.2E6	4030.9E6	505.757	462.831
13) T	2,4-DB	10.062	10.817	1262.0E6	402.5E6	404.283	414.493
14) T	DINOSEB	11.266	11.196	4204.1E6	1752.4E6	312.766	284.517
15) T	Picloram	11.075	12.282	11324.3E6	4930.1E6	422.348	383.996
16) T	DCPA	11.559	12.236	10301.0E6	4978.2E6	428.296	463.323

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028843.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:08
Operator : AR\AJ
Sample : P5362-02MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

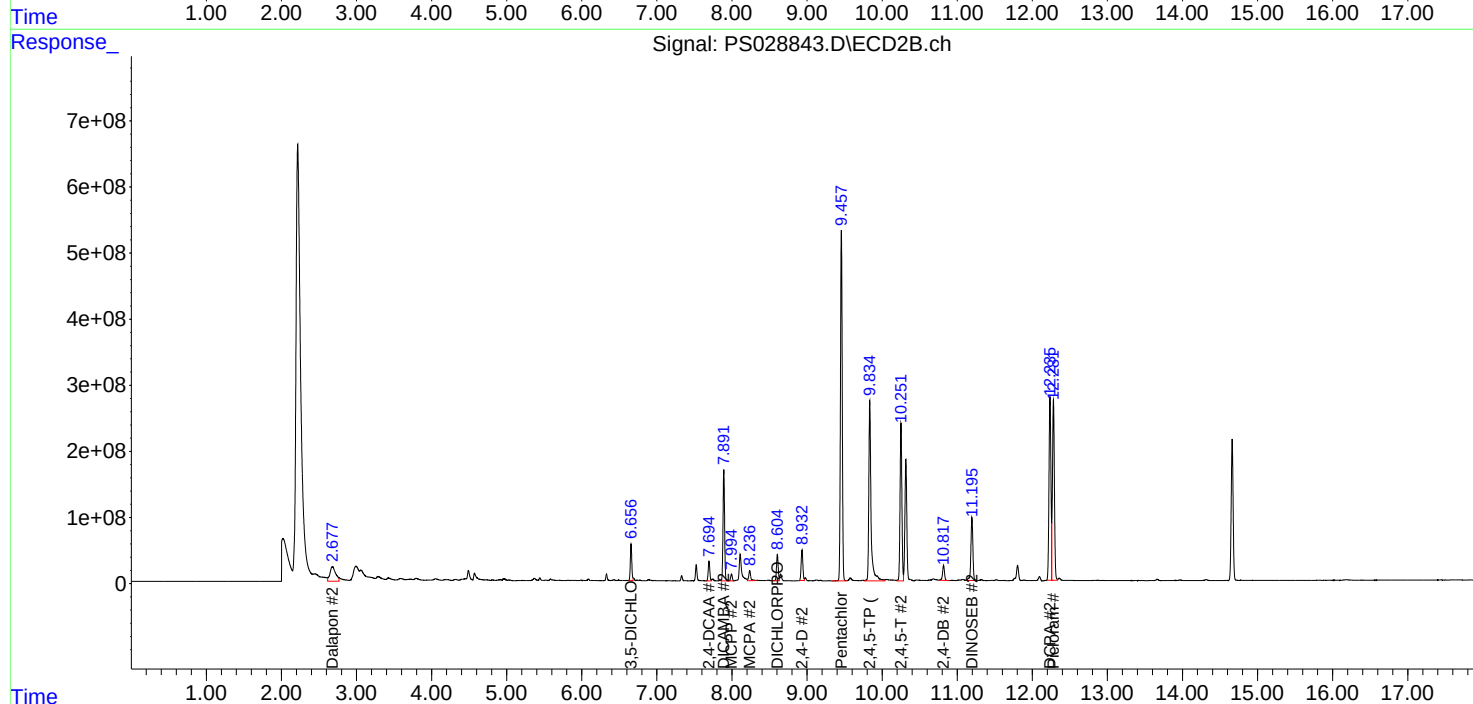
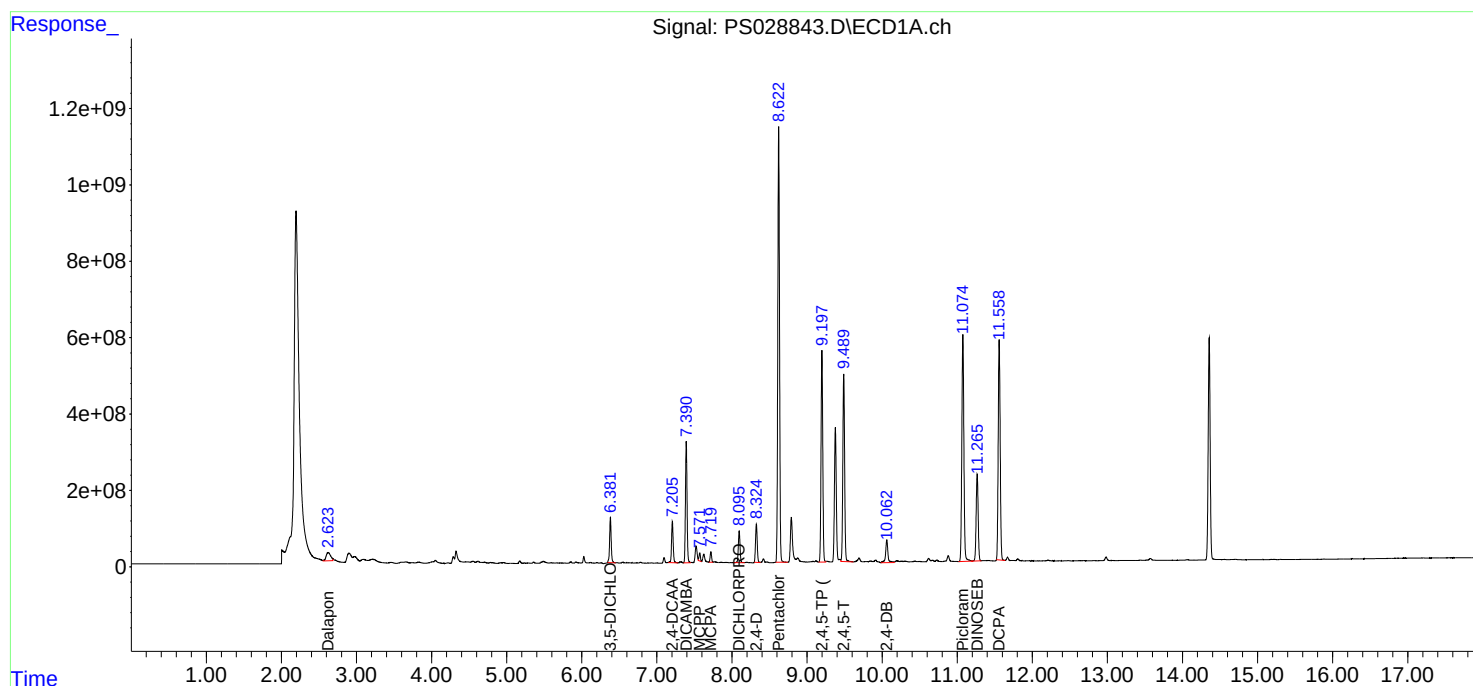
Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

Manual Integrations
APPROVED

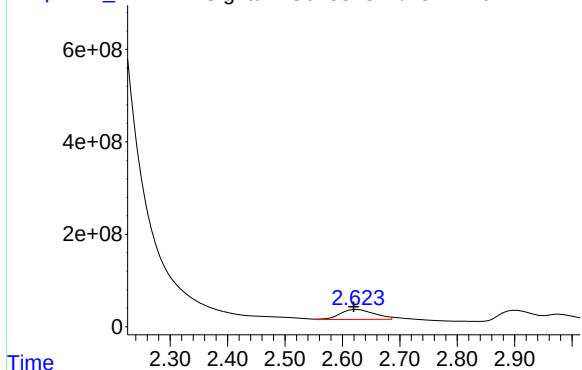
Reviewed By : Abdul Mirza 12/30/2024
Supervised By : Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 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: PS028843.D\ECD1A.ch



#1 Dalapon

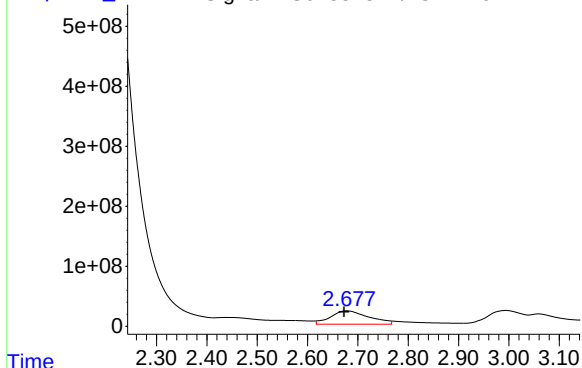
R.T.: 2.623 min
Delta R.T.: 0.002 min
Response: 895438460
Conc: 317.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

**Manual Integrations
APPROVED**

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

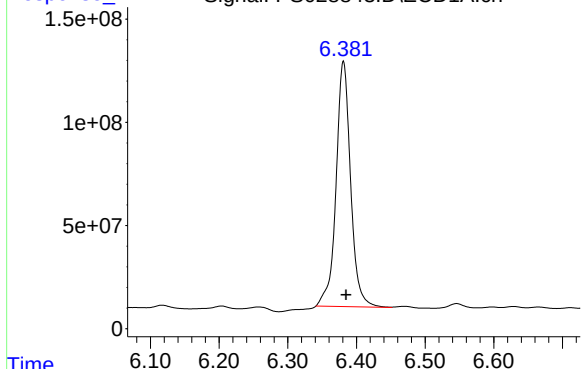
Response_ Signal: PS028843.D\ECD2B.ch



#1 Dalapon

R.T.: 2.677 min
Delta R.T.: 0.005 min
Response: 1165890898
Conc: 592.24 ng/ml m

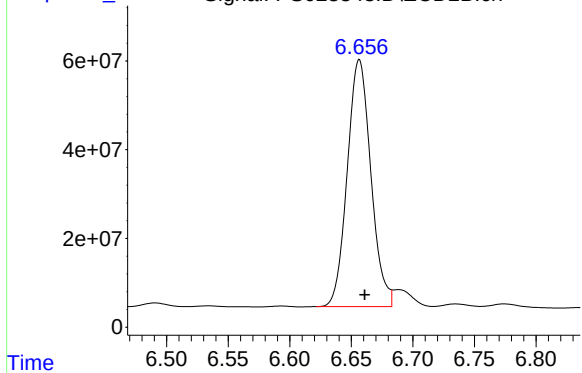
Response_ Signal: PS028843.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1747579339
Conc: 530.35 ng/ml

Response_ Signal: PS028843.D\ECD2B.ch

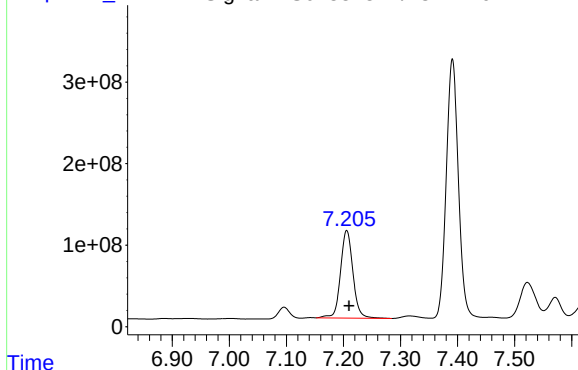


#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.656 min
Delta R.T.: -0.005 min
Response: 744355412
Conc: 449.06 ng/ml m

Signal: PS028843.D\ECD1A.ch

#4 2,4-DCAA



R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 1618016315
Conc: 715.30 ng/ml

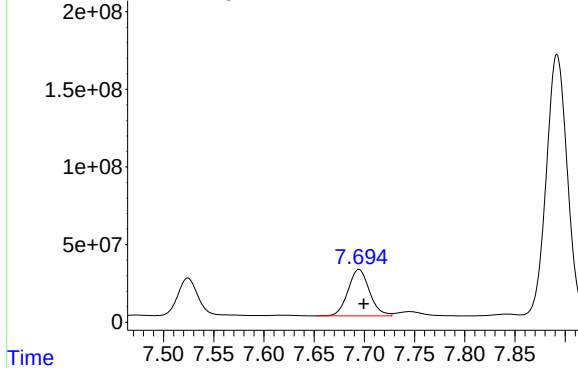
Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

**Manual Integrations
APPROVED**

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

Signal: PS028843.D\ECD2B.ch

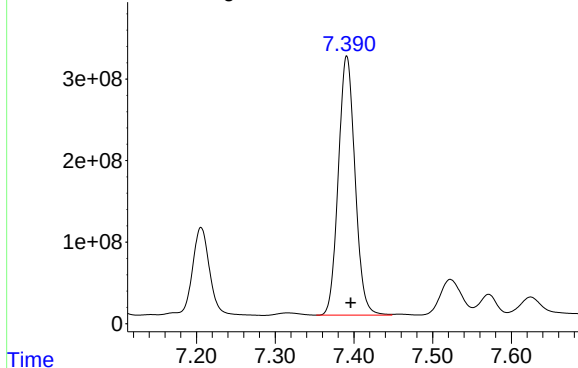
#4 2,4-DCAA



R.T.: 7.695 min
Delta R.T.: -0.005 min
Response: 443494340
Conc: 394.03 ng/ml

Signal: PS028843.D\ECD1A.ch

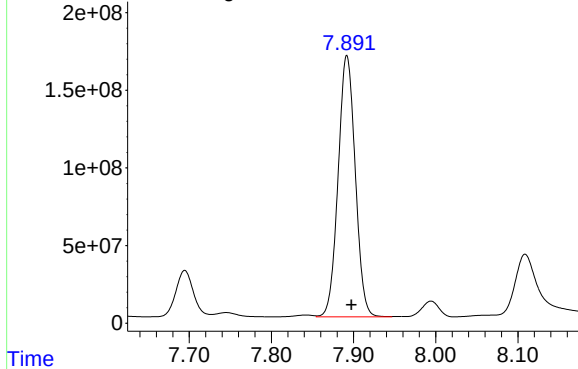
#5 DICAMBA



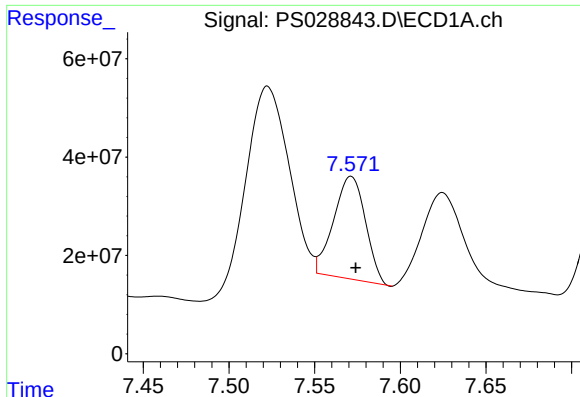
R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 4678545006
Conc: 474.47 ng/ml

Signal: PS028843.D\ECD2B.ch

#5 DICAMBA



R.T.: 7.892 min
Delta R.T.: -0.005 min
Response: 2439705757
Conc: 444.40 ng/ml



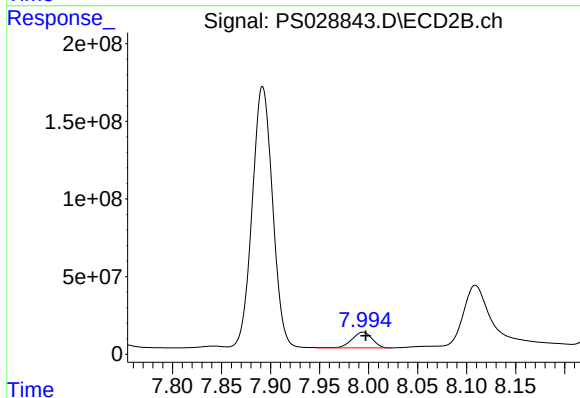
#6 MCP

R.T.: 7.571 min
Delta R.T.: -0.003 min
Response: 269227926
Conc: 43.23 ug/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

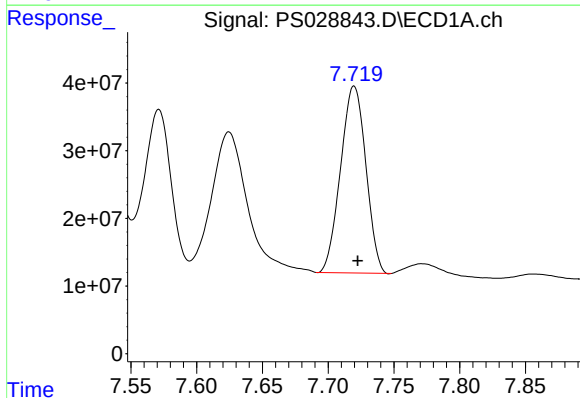
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



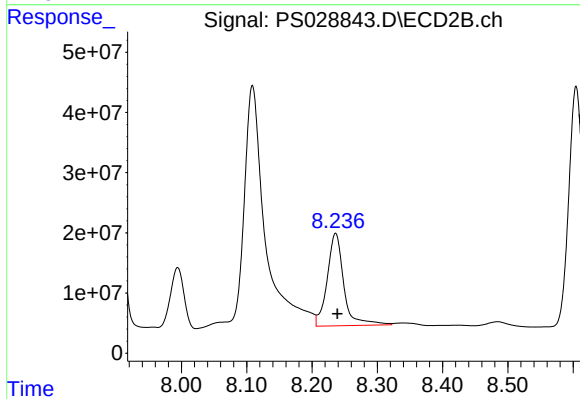
#6 MCP

R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 147077468
Conc: 45.01 ug/ml



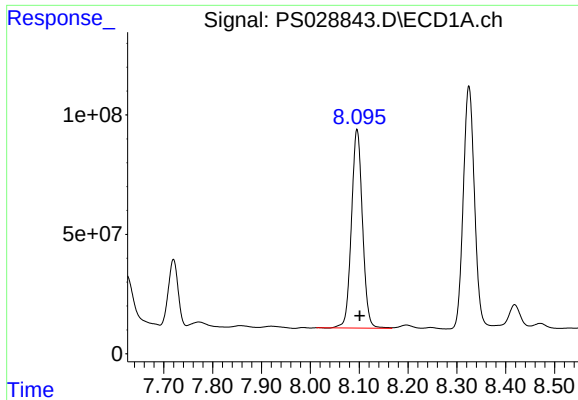
#7 MCPA

R.T.: 7.720 min
Delta R.T.: -0.003 min
Response: 369594366
Conc: 42.16 ug/ml



#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 270972002
Conc: 58.49 ug/ml



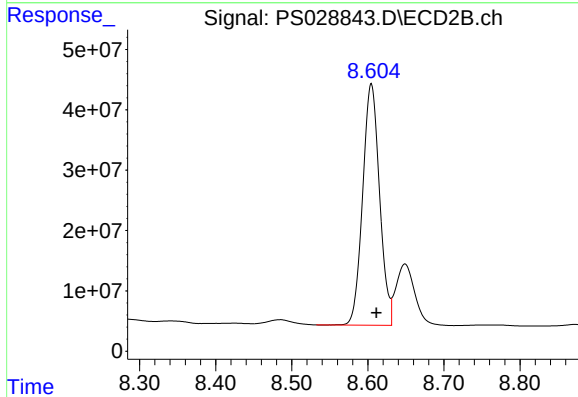
#8 DICHLORPROP

R.T.: 8.096 min
Delta R.T.: -0.005 min
Response: 1307370898
Conc: 492.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

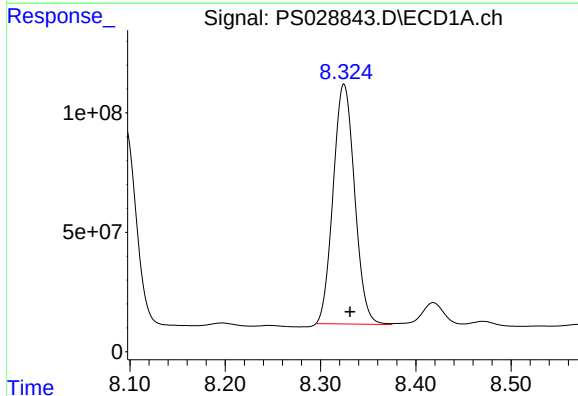
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



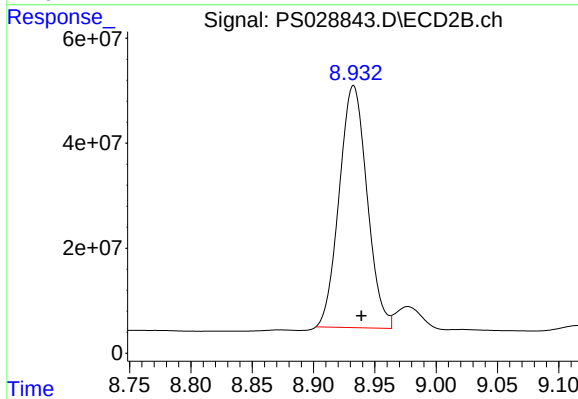
#8 DICHLORPROP

R.T.: 8.605 min
Delta R.T.: -0.007 min
Response: 618049190
Conc: 447.97 ng/ml



#9 2,4-D

R.T.: 8.325 min
Delta R.T.: -0.006 min
Response: 1570356314
Conc: 551.09 ng/ml



#9 2,4-D

R.T.: 8.933 min
Delta R.T.: -0.007 min
Response: 727612516
Conc: 504.19 ng/ml

Response_

Signal: PS028843.D\ECD1A.ch

#10 Pentachlorophenol

R.T.: 8.622 min

Delta R.T.: -0.006 min

Response: 18250873340

Conc: 467.17 ng/ml

Instrument :

ECD_S

ClientSampleId :

WC-SOIL-20241219MSD

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/30/2024

Supervised By :Ankita Jodhani 12/30/2024

Time

Response_

Signal: PS028843.D\ECD2B.ch

#10 Pentachlorophenol

R.T.: 9.457 min

Delta R.T.: -0.007 min

Response: 8870253743

Conc: 406.92 ng/ml

Time

Response_

Signal: PS028843.D\ECD1A.ch

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

R.T.: 9.198 min

Delta R.T.: -0.007 min

Response: 8848090918

Conc: 563.24 ng/ml

Time

Response_

Signal: PS028843.D\ECD2B.ch

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

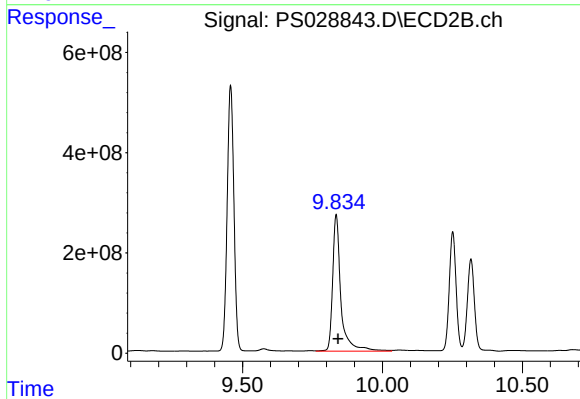
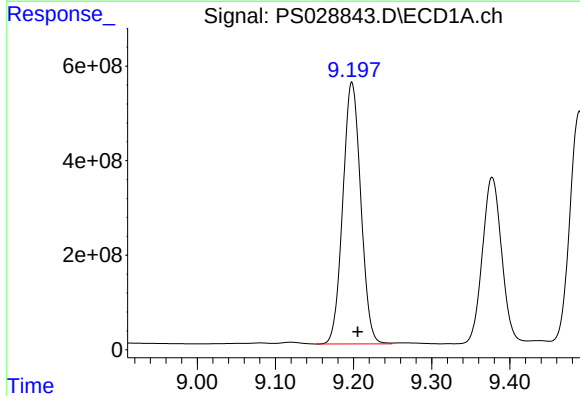
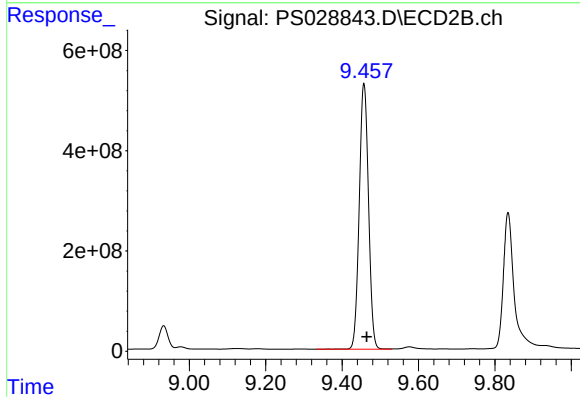
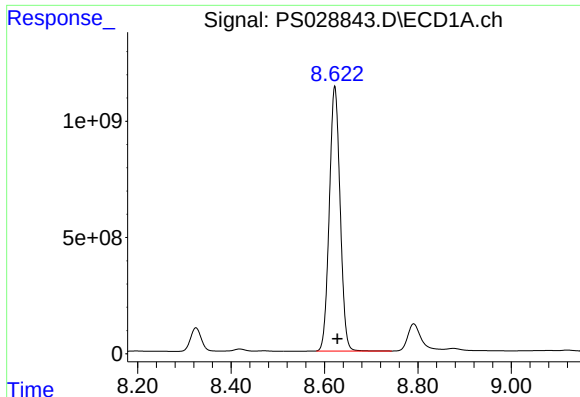
R.T.: 9.835 min

Delta R.T.: -0.007 min

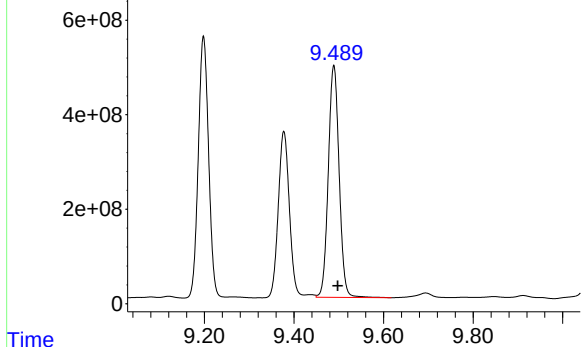
Response: 5610449350

Conc: 624.53 ng/ml

Time



Response_ Signal: PS028843.D\ECD1A.ch



#12 2,4,5-T

R.T.: 9.489 min
Delta R.T.: -0.009 min
Response: 8228249405
Conc: 505.76 ng/ml

Instrument :

ECD_S

ClientSampleId :

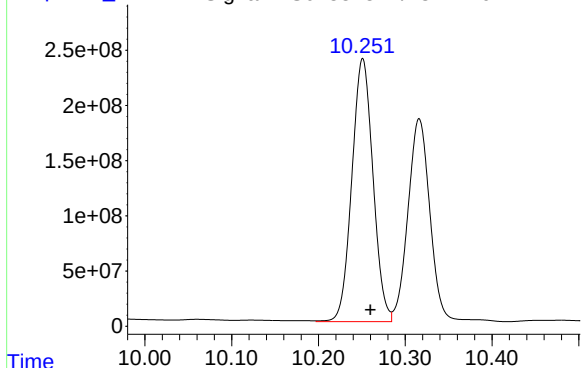
WC-SOIL-20241219MSD

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

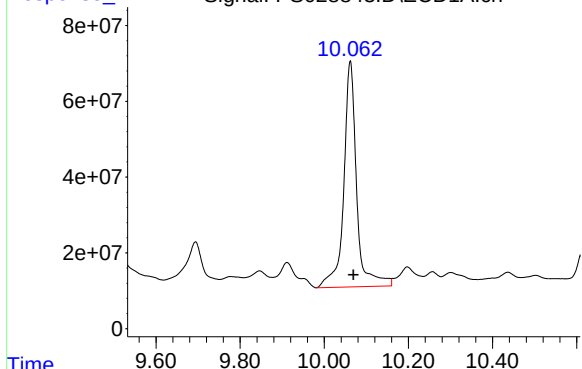
Time Response_ Signal: PS028843.D\ECD2B.ch



#12 2,4,5-T

R.T.: 10.251 min
Delta R.T.: -0.009 min
Response: 4030876922
Conc: 462.83 ng/ml

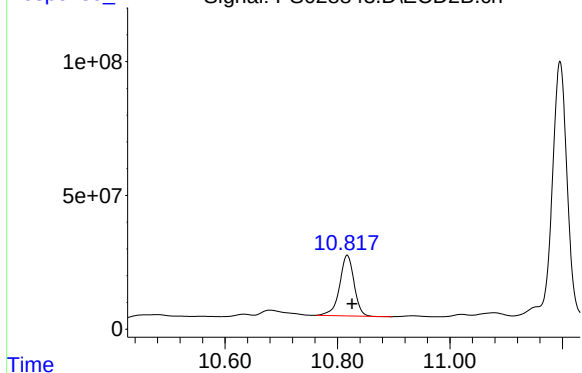
Time Response_ Signal: PS028843.D\ECD1A.ch



#13 2,4-DB

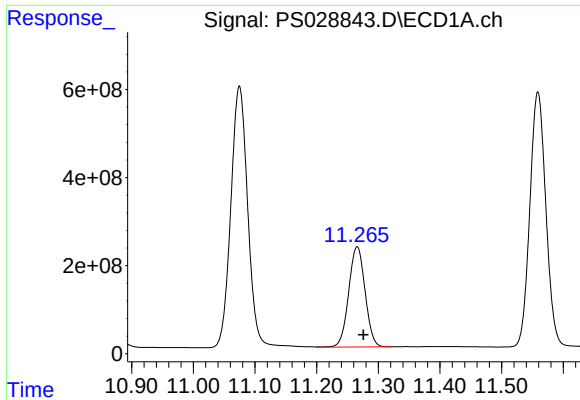
R.T.: 10.062 min
Delta R.T.: -0.008 min
Response: 1262008879
Conc: 404.28 ng/ml

Time Response_ Signal: PS028843.D\ECD2B.ch



#13 2,4-DB

R.T.: 10.817 min
Delta R.T.: -0.008 min
Response: 402513143
Conc: 414.49 ng/ml



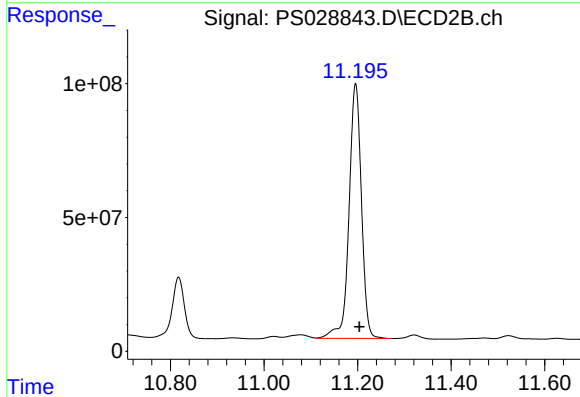
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 4204110694
Conc: 312.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

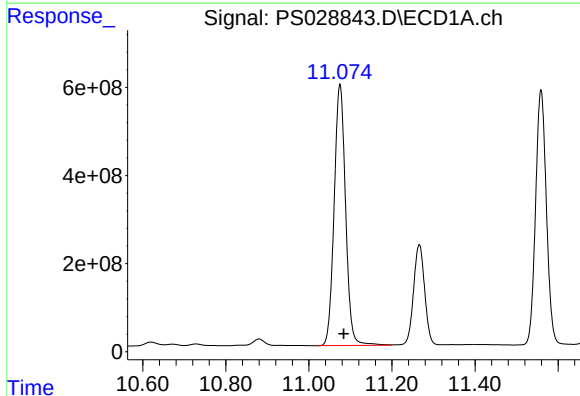
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



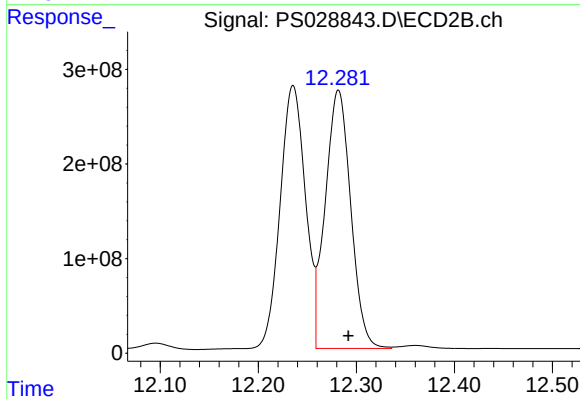
#14 DINOSEB

R.T.: 11.196 min
Delta R.T.: -0.008 min
Response: 1752379653
Conc: 284.52 ng/ml



#15 Picloram

R.T.: 11.075 min
Delta R.T.: -0.009 min
Response: 11324329281
Conc: 422.35 ng/ml



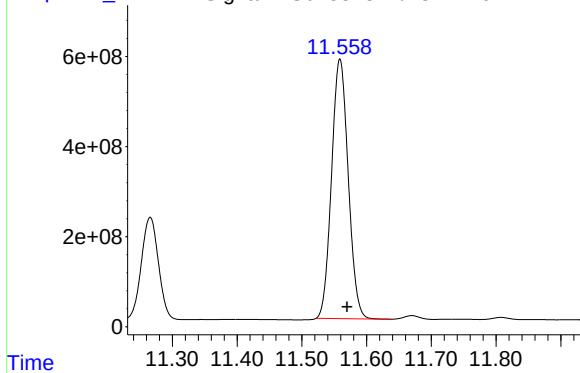
#15 Picloram

R.T.: 12.282 min
Delta R.T.: -0.010 min
Response: 4930130386
Conc: 384.00 ng/ml

Response_

Signal: PS028843.D\ECD1A.ch

#16 DCPA



R.T.: 11.559 min
Delta R.T.: -0.011 min
Response: 10300970584
Conc: 428.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

Manual Integrations
APPROVED

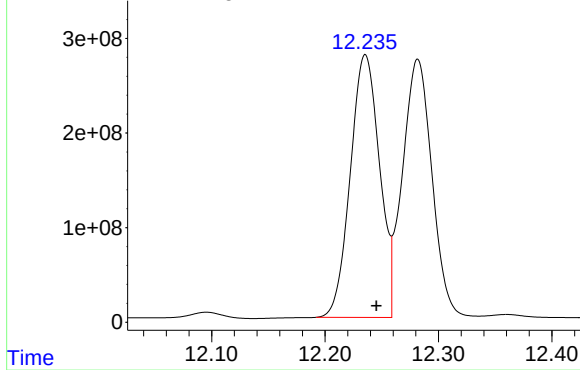
Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

Time

Response_

Signal: PS028843.D\ECD2B.ch

#16 DCPA



R.T.: 12.236 min
Delta R.T.: -0.010 min
Response: 4978207339
Conc: 463.32 ng/ml

Manual Integration Report

Sequence:

PS122324

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS028787.D	MCPP	Abdul	12/26/2024 8:03:36 AM	Ankita	12/27/2024 7:49:25	Peak Integrated by Software
HSTDICC1000	PS028790.D	2,4-DCAA	Abdul	12/26/2024 8:03:40 AM	Ankita	12/27/2024 7:49:27	Peak Integrated by Software

Manual Integration Report

Sequence:	PS122724	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028828.D	DCPA	Abdul	12/30/2024 9:29:51 AM	Ankita	12/30/2024 9:51:17	Peak Integrated by Software
P5362-02MS	PS028842.D	2,4-D	Abdul	12/30/2024 9:30:09 AM	Ankita	12/30/2024 9:51:26	Peak Integrated by Software
P5362-02MS	PS028842.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	12/30/2024 9:30:09 AM	Ankita	12/30/2024 9:51:26	Peak Integrated by Software
P5362-02MS	PS028842.D	4-Nitrophenol	Abdul	12/30/2024 9:30:09 AM	Ankita	12/30/2024 9:51:26	Peak Integrated by Software
P5362-02MS	PS028842.D	Dalapon	Abdul	12/30/2024 9:30:09 AM	Ankita	12/30/2024 9:51:26	Peak Integrated by Software
P5362-02MS	PS028842.D	Dalapon #2	Abdul	12/30/2024 9:30:09 AM	Ankita	12/30/2024 9:51:26	Peak Integrated by Software
P5362-02MSD	PS028843.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	12/30/2024 9:30:12 AM	Ankita	12/30/2024 9:51:27	Peak Integrated by Software
P5362-02MSD	PS028843.D	Dalapon	Abdul	12/30/2024 9:30:12 AM	Ankita	12/30/2024 9:51:27	Peak Integrated by Software
P5362-02MSD	PS028843.D	Dalapon #2	Abdul	12/30/2024 9:30:12 AM	Ankita	12/30/2024 9:51:27	Peak Integrated by Software



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

Manual Integration Report

Sequence:

PS123124

Instrument

ECD_s

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM
SubDirectory	PS122324	HP Acquire Method	HP Processing Method ps122324 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM	PP24066		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028785.D	23 Dec 2024 10:36	AR\AJ	Ok
2	I.BLK	PS028786.D	23 Dec 2024 11:00	AR\AJ	Ok
3	HSTDICC200	PS028787.D	23 Dec 2024 11:23	AR\AJ	Ok,M
4	HSTDICC500	PS028788.D	23 Dec 2024 11:47	AR\AJ	Ok
5	HSTDICC750	PS028789.D	23 Dec 2024 12:11	AR\AJ	Ok
6	HSTDICC1000	PS028790.D	23 Dec 2024 12:35	AR\AJ	Ok,M
7	HSTDICC1500	PS028791.D	23 Dec 2024 12:59	AR\AJ	Ok
8	HSTDICV750	PS028792.D	23 Dec 2024 13:23	AR\AJ	Ok
9	I.BLK	PS028793.D	23 Dec 2024 13:47	AR\AJ	Ok
10	HSTDCCC750	PS028794.D	23 Dec 2024 14:11	AR\AJ	Ok
11	P5330-01	PS028795.D	23 Dec 2024 14:34	AR\AJ	Ok,M
12	P5355-01	PS028796.D	23 Dec 2024 14:58	AR\AJ	Ok,M
13	PB165776BL	PS028797.D	23 Dec 2024 15:22	AR\AJ	Ok
14	PB165776BS	PS028798.D	23 Dec 2024 15:46	AR\AJ	Ok,M
15	I.BLK	PS028799.D	23 Dec 2024 16:10	AR\AJ	Ok
16	HSTDCCC750	PS028800.D	23 Dec 2024 16:34	AR\AJ	Ok
17	P5306-01	PS028801.D	23 Dec 2024 16:58	AR\AJ	Ok,M
18	P5306-03	PS028802.D	23 Dec 2024 17:22	AR\AJ	Ok,M
19	P5306-05	PS028803.D	23 Dec 2024 17:46	AR\AJ	Ok,M
20	P5306-07	PS028804.D	23 Dec 2024 18:10	AR\AJ	Ok,M
21	P5306-09	PS028805.D	23 Dec 2024 18:33	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM
SubDirectory	PS122324	HP Acquire Method	HP Processing Method ps122324 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24066 PP24069,PP24070		

22	P5306-11	PS028806.D	23 Dec 2024 18:57	AR\AJ	Ok,M
23	P5306-13	PS028807.D	23 Dec 2024 19:21	AR\AJ	Not Ok
24	P5306-15MS	PS028808.D	23 Dec 2024 19:45	AR\AJ	Not Ok
25	P5306-15MSD	PS028809.D	23 Dec 2024 20:09	AR\AJ	Not Ok
26	I.BLK	PS028810.D	23 Dec 2024 20:33	AR\AJ	Ok
27	HSTDCCC750	PS028811.D	23 Dec 2024 20:57	AR\AJ	Ok
28	PB165784BL	PS028812.D	23 Dec 2024 21:21	AR\AJ	Ok
29	P5356-01	PS028813.D	23 Dec 2024 21:45	AR\AJ	Ok
30	PB165784BS	PS028814.D	23 Dec 2024 22:09	AR\AJ	Ok
31	PB165784BSD	PS028815.D	23 Dec 2024 22:32	AR\AJ	Ok,M
32	I.BLK	PS028816.D	23 Dec 2024 22:56	AR\AJ	Ok
33	HSTDCCC750	PS028817.D	23 Dec 2024 23:20	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS122724

Review By	Abdul	Review On	12/30/2024 9:30:50 AM
Supervise By	Ankita	Supervise On	12/30/2024 9:51:42 AM
SubDirectory	PS122724	HP Acquire Method	HP Processing Method ps122324 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM	PP24066		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028826.D	27 Dec 2024 09:57	AR\AJ	Ok
2	I.BLK	PS028827.D	27 Dec 2024 10:21 am	AR\AJ	Ok
3	HSTDCCC750	PS028828.D	27 Dec 2024 10:45 am	AR\AJ	Ok,M
4	PB165874BL	PS028829.D	27 Dec 2024 16:45	AR\AJ	Ok
5	PB165874BS	PS028830.D	27 Dec 2024 17:09	AR\AJ	Ok,M
6	P5318-01	PS028831.D	27 Dec 2024 17:33	AR\AJ	Ok
7	P5318-01MS	PS028832.D	27 Dec 2024 17:57	AR\AJ	Ok,M
8	P5318-01MSD	PS028833.D	27 Dec 2024 18:21	AR\AJ	Ok,M
9	P5386-01	PS028834.D	27 Dec 2024 18:44	AR\AJ	Ok,M
10	P5386-03	PS028835.D	27 Dec 2024 19:08	AR\AJ	Ok
11	I.BLK	PS028836.D	27 Dec 2024 19:32	AR\AJ	Ok
12	HSTDCCC750	PS028837.D	27 Dec 2024 19:56	AR\AJ	Ok
13	PB165896BL	PS028838.D	27 Dec 2024 21:08	AR\AJ	Ok
14	PB165896BS	PS028839.D	27 Dec 2024 21:32	AR\AJ	Ok
15	PB165858TB	PS028840.D	27 Dec 2024 21:56	AR\AJ	Not Ok
16	P5362-02	PS028841.D	27 Dec 2024 22:20	AR\AJ	Ok
17	P5362-02MS	PS028842.D	27 Dec 2024 22:44	AR\AJ	Ok,M
18	P5362-02MSD	PS028843.D	27 Dec 2024 23:08	AR\AJ	Ok,M
19	P5380-02	PS028844.D	27 Dec 2024 23:32	AR\AJ	ReRun
20	I.BLK	PS028845.D	27 Dec 2024 23:56	AR\AJ	Ok
21	HSTDCCC750	PS028846.D	28 Dec 2024 00:19	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS123124

Review By	Review On
Supervise By	Supervise On
SubDirectory PS123124	HP Acquire Method HP Processing Method
STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028860.D	31 Dec 2024 08:11	AR\AJ	Ok
2	I.BLK	PS028861.D	31 Dec 2024 08:35	AR\AJ	Ok
3	HSTDCCC750	PS028862.D	31 Dec 2024 08:59	AR\AJ	Ok,NR
4	PB165858TB	PS028863.D	31 Dec 2024 11:52	AR\AJ	Ok
5	I.BLK	PS028864.D	31 Dec 2024 12:16	AR\AJ	Ok
6	HSTDCCC750	PS028865.D	31 Dec 2024 12:40	AR\AJ	Ok,NR

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM
SubDirectory	PS122324	HP Acquire Method	HP Processing Method ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028785.D	23 Dec 2024 10:36		AR\AJ	Ok
2	I.BLK	I.BLK	PS028786.D	23 Dec 2024 11:00		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028787.D	23 Dec 2024 11:23		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS028788.D	23 Dec 2024 11:47		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS028789.D	23 Dec 2024 12:11		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028790.D	23 Dec 2024 12:35		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS028791.D	23 Dec 2024 12:59		AR\AJ	Ok
8	HSTDICV750	ICVPS122324	PS028792.D	23 Dec 2024 13:23		AR\AJ	Ok
9	I.BLK	I.BLK	PS028793.D	23 Dec 2024 13:47		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028794.D	23 Dec 2024 14:11		AR\AJ	Ok
11	P5330-01	TP-5	PS028795.D	23 Dec 2024 14:34		AR\AJ	Ok,M
12	P5355-01	RBR251688	PS028796.D	23 Dec 2024 14:58		AR\AJ	Ok,M
13	PB165776BL	PB165776BL	PS028797.D	23 Dec 2024 15:22		AR\AJ	Ok
14	PB165776BS	PB165776BS	PS028798.D	23 Dec 2024 15:46		AR\AJ	Ok,M
15	I.BLK	I.BLK	PS028799.D	23 Dec 2024 16:10		AR\AJ	Ok
16	HSTDCCC750	HSTDCCC750	PS028800.D	23 Dec 2024 16:34		AR\AJ	Ok
17	P5306-01	OU4-VSL-07-121224	PS028801.D	23 Dec 2024 16:58		AR\AJ	Ok,M
18	P5306-03	OU4-VSL-08-121224	PS028802.D	23 Dec 2024 17:22		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM
SubDirectory	PS122324	HP Acquire Method	HP Processing Method ps122324 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC	PP24066		
Internal Standard/PEM	PP24069,PP24070		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P5306-05	OU4-VSL-09-121224	PS028803.D	23 Dec 2024 17:46		AR\AJ	Ok,M
20	P5306-07	OU4-VSL-10-121224	PS028804.D	23 Dec 2024 18:10		AR\AJ	Ok,M
21	P5306-09	OU4-VSL-11-121224	PS028805.D	23 Dec 2024 18:33		AR\AJ	Ok,M
22	P5306-11	OU4-VSL-12-121224	PS028806.D	23 Dec 2024 18:57		AR\AJ	Ok,M
23	P5306-13	OU4-VSL-13-121224	PS028807.D	23 Dec 2024 19:21	2,4-DCAA low in both column	AR\AJ	Not Ok
24	P5306-15MS	OU4-VSL-14-121224M	PS028808.D	23 Dec 2024 19:45	2,4-DCAA high in first column , compound#14 recovery fail	AR\AJ	Not Ok
25	P5306-15MSD	OU4-VSL-14-121224M	PS028809.D	23 Dec 2024 20:09	2,4-DCAA high in first column , compound#14 recovery fail	AR\AJ	Not Ok
26	I.BLK	I.BLK	PS028810.D	23 Dec 2024 20:33		AR\AJ	Ok
27	HSTDCCC750	HSTDCCC750	PS028811.D	23 Dec 2024 20:57		AR\AJ	Ok
28	PB165784BL	PB165784BL	PS028812.D	23 Dec 2024 21:21		AR\AJ	Ok
29	P5356-01	STAND-PIPE	PS028813.D	23 Dec 2024 21:45		AR\AJ	Ok
30	PB165784BS	PB165784BS	PS028814.D	23 Dec 2024 22:09		AR\AJ	Ok
31	PB165784BSD	PB165784BSD	PS028815.D	23 Dec 2024 22:32		AR\AJ	Ok,M
32	I.BLK	I.BLK	PS028816.D	23 Dec 2024 22:56		AR\AJ	Ok
33	HSTDCCC750	HSTDCCC750	PS028817.D	23 Dec 2024 23:20		AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS122724

Review By	Abdul	Review On	12/30/2024 9:30:50 AM
Supervise By	Ankita	Supervise On	12/30/2024 9:51:42 AM
SubDirectory	PS122724	HP Acquire Method	HP Processing Method ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028826.D	27 Dec 2024 09:57		AR\AJ	Ok
2	I.BLK	I.BLK	PS028827.D	27 Dec 2024 10:21 am		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028828.D	27 Dec 2024 10:45 am		AR\AJ	Ok,M
4	PB165874BL	PB165874BL	PS028829.D	27 Dec 2024 16:45		AR\AJ	Ok
5	PB165874BS	PB165874BS	PS028830.D	27 Dec 2024 17:09		AR\AJ	Ok,M
6	P5318-01	AU-06-122024	PS028831.D	27 Dec 2024 17:33		AR\AJ	Ok
7	P5318-01MS	AU-06-122024MS	PS028832.D	27 Dec 2024 17:57	Some compound recovery fail	AR\AJ	Ok,M
8	P5318-01MSD	AU-06-122024MSD	PS028833.D	27 Dec 2024 18:21	Some compound recovery fail	AR\AJ	Ok,M
9	P5386-01	MOO-24-00398	PS028834.D	27 Dec 2024 18:44		AR\AJ	Ok,M
10	P5386-03	MOO-24-00395-96	PS028835.D	27 Dec 2024 19:08		AR\AJ	Ok
11	I.BLK	I.BLK	PS028836.D	27 Dec 2024 19:32		AR\AJ	Ok
12	HSTDCCC750	HSTDCCC750	PS028837.D	27 Dec 2024 19:56		AR\AJ	Ok
13	PB165896BL	PB165896BL	PS028838.D	27 Dec 2024 21:08		AR\AJ	Ok
14	PB165896BS	PB165896BS	PS028839.D	27 Dec 2024 21:32		AR\AJ	Ok
15	PB165858TB	PB165858TB	PS028840.D	27 Dec 2024 21:56	surrogate fail	AR\AJ	Not Ok
16	P5362-02	WC-SOIL-20241219	PS028841.D	27 Dec 2024 22:20		AR\AJ	Ok
17	P5362-02MS	WC-SOIL-20241219MS	PS028842.D	27 Dec 2024 22:44	DINOSEB low in 1st column	AR\AJ	Ok,M
18	P5362-02MSD	WC-SOIL-20241219MSD	PS028843.D	27 Dec 2024 23:08	DINOSEB low in 1st column	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS122724

Review By	Abdul	Review On	12/30/2024 9:30:50 AM
Supervise By	Ankita	Supervise On	12/30/2024 9:51:42 AM
SubDirectory	PS122724	HP Acquire Method	HP Processing Method ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

19	P5380-02	TAPIAL3-IDW-SOIL-12	PS028844.D	27 Dec 2024 23:32	2,4-DCAA high in 1st columns.	AR\AJ	ReRun
20	I.BLK	I.BLK	PS028845.D	27 Dec 2024 23:56		AR\AJ	Ok
21	HSTDCCC750	HSTDCCC750	PS028846.D	28 Dec 2024 00:19		AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS123124

Review By	Review On
Supervise By	Supervise On
SubDirectory	PS123124
HP Acquire Method	HP Processing Method
STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028860.D	31 Dec 2024 08:11		AR\AJ	Ok
2	I.BLK	I.BLK	PS028861.D	31 Dec 2024 08:35		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028862.D	31 Dec 2024 08:59		AR\AJ	Ok,NR
4	PB165858TB	PB165858TB	PS028863.D	31 Dec 2024 11:52		AR\AJ	Ok
5	I.BLK	I.BLK	PS028864.D	31 Dec 2024 12:16		AR\AJ	Ok
6	HSTDCCC750	HSTDCCC750	PS028865.D	31 Dec 2024 12:40		AR\AJ	Ok,NR

M : Manual Integration

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

Start Prep Date : 12/26/2024 Time : 16:00
End Prep Date : 12/27/2024 Time : 10:15
Combination Ratio : 20
ZHE Cleaning Batch : N/A
Initial Room Temperature: 22 °C
Final Room Temperature: 21 °C
TCLP Technician Signature : *JP*
Supervisor By : *12*

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110801
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP83122

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. Tumbler T-1 checked,30 rpm. p5386-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/27/24 10:00	<i>JP</i> <i>1st Room</i>	<i>Sing.</i> <i>1E-XH</i>
	Preparation Group	Analysis Group <i>MEM, JY</i>

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P5342-08	CHRT26634	01	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
P5342-09	HT2651	02	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
P5362-02	WC-SOIL-20241219	03	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P5386-02	MOO-24-00398	05	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P5386-04	MOO-24-00395-96	06	100.01	2000	N/A	N/A	N/A	4.5	1.5	T-1
PB165858TB	LEB858	07	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P5342-08	CHRT26634	N/A	N/A	N/A	N/A	100	N/A
P5342-09	HT2651	N/A	N/A	N/A	N/A	100	N/A
P5362-02	WC-SOIL-20241219	N/A	N/A	N/A	N/A	100	N/A
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	N/A	N/A	N/A	N/A	100	N/A
P5386-02	MOO-24-00398	N/A	N/A	N/A	N/A	100	N/A
P5386-04	MOO-24-00395-96	N/A	N/A	N/A	N/A	100	N/A
PB165858TB	LEB858	N/A	N/A	N/A	N/A	N/A	N/A

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

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P5342-08	CHRT26634	5.02	96.5	6.6	2.5	#1	4.93
P5342-09	HT2651	5.03	96.5	6.2	2.5	#1	4.93
P5362-02	WC-SOIL-20241219	5.02	96.5	7.6	3.0	#1	4.93
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	5.01	96.5	10.5	4.0	#1	4.93
P5386-02	MOO-24-00398	5.02	96.5	6.8	2.5	#1	4.93
P5386-04	MOO-24-00395-96	5.00	96.5	7.0	2.5	#1	4.93
PB165858TB	LEB858	N/A	N/A	N/A	N/A	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p5380 WorkList ID : 186583 Department : TCLP Extraction Date : 12-26-2024 07:38:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5342-08	CHRT26634	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N12	12/18/2024	1311
P5342-09	HT2651	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N12	12/18/2024	1311
P5362-02	WC-SOIL-20241219	Solid	TCLP Extraction	Cool 4 deg C	PARS02	N21	12/19/2024	1311
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	Solid	TCLP Extraction	Cool 4 deg C	WEST04	N31	12/20/2024	1311
P5386-02	MOO-24-00398	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	12/26/2024	1311
P5386-04	MOO-24-00395-96	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	12/26/2024	1311

Date/Time 12/26/24 15130
 Raw Sample Received by: sd woc
 Raw Sample Relinquished by: sd woc

Date/Time 12/26/24 17130
 Raw Sample Received by: sd woc
 Raw Sample Relinquished by: sd woc

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Extraction Start Date : 12/27/2024

Matrix : Water

Extraction Start Time : 10:20

Weigh By: RJ

Extraction By: RJ

Extraction End Date : 12/27/2024

Balance check: RJ

Filter By: RJ

Extraction End Time : 16:15

Balance ID: EX-SC-2

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: N/A

Hood ID: 3,7

Supervisor By : rajesh

Extraction Method: ☒ Separatory Funnel

☐ Continious 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	PP23930
Surrogate	1.0ML	5000 PPB	PP24078
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Ether	N/A	E3370
Acidified Na2SO4	N/A	EP2572
NAOH 6N	N/A	EP2553
1:3 SULPHURIC ACID	N/A	EP2564
NACL	N/A	M4459
ISO OCTANE	N/A	E3554
Diazomethane	N/A	EP2529
Hexane	N/A	E3847
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

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

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/27/24	RP (Ext Lab)	R-Yost/PCB Lab
16:20	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 12/27/2024

Sample ID	Client Sample ID	Test	g / <u>ml</u>	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165858TB	PB165858TB	TCLP Herbicide	100	6	ritesh	rajesh	10			SEP-06
PB165896BL	HBLK896	TCLP Herbicide	1000	6	ritesh	rajesh	10			7
PB165896BS	HLCS896	TCLP Herbicide	1000	6	ritesh	rajesh	10			8
P5362-02	WC-SOIL-20241219	TCLP Herbicide	100	6	ritesh	rajesh	10	A		9
P5362-02MS	WC-SOIL-20241219MS	TCLP Herbicide	100	6	ritesh	rajesh	10	A		10
P5362-02MS D	WC-SOIL-20241219MSD	TCLP Herbicide	100	6	ritesh	rajesh	10	A		11
P5380-02	TAPIAL3-IDW-SOIL-1220 24-T1	TCLP Herbicide	100	6	ritesh	rajesh	10	A		12

* Extracts relinquished on the same date as received.

2
12/27/24

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P5342-08	CHRT26634	01	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
P5342-09	HT2651	02	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
P5362-02	WC-SOIL-20241219	03	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P5386-02	MOO-24-00398	05	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P5386-04	MOO-24-00395-96	06	100.01	2000	N/A	N/A	N/A	4.5	1.5	T-1
PB165858TB	LEB858	07	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

12/27/24
10:00

Prep Standard - Chemical Standard Summary

Order ID : P5362

Test : TCLP Herbicide

Prepbatch ID : PB165896,

Sequence ID/Qc Batch ID: PS122724,ps123024,PS123124,

Standard ID :

EP2553,EP2564,EP2572,PP23930,PP24061,PP24062,PP24064,PP24065,PP24066,PP24067,PP24068,PP24069,PP24070,PP24078,

Chemical ID :

E3370,E3551,E3657,E3818,E3826,E3843,M4459,M5173,P10549,P11180,P11181,P12619,P12629,P12686,P12708,P12709,P12784,P12785,P13506,P13507,P13508,P13509,P13517,W3112,



<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
<u>FROM</u>	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>
1762	1:3 H2SO4 Soln	EP2564	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024
<u>FROM</u> 250.00000ml of M5173 + 750.00000ml of W3112 = 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>
601	Acidified Sodium Sulphate 2	EP2572	12/16/2024	01/17/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 12/16/2024
<u>FROM</u>	100.00000ml of E3370 + 150.00000ml of M5173 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP23930	10/30/2024	04/23/2025	Abdul Mirza	None	None	Ankita Jodhani 10/30/2024
<u>FROM</u> 0.50000ml of P13517 + 1.00000ml of P12784 + 1.00000ml of P12785 + 47.50000ml of E3818 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1321	2/200 PPM Herb Mega Mix	PP24061	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
<u>FROM</u> 0.20000ml of P10549 + 1.00000ml of P11180 + 1.00000ml of P12619 + 1.00000ml of P12629 + 1.00000ml of P12686 + 95.80000ml of E3826 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP24062	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
<u>FROM</u> 1.00000ml of P11181 + 1.00000ml of P12708 + 1.00000ml of P12709 + 97.00000ml of E3826 = Final Quantity: 100.000 ml								

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1452	1500 PPB HERB MIX STD	PP24064	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24061 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1453	1000 PPB Herb MIX STD	PP24065	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24061 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1454	750 PPB Herb MIX STD	PP24066	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24065 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1455	500 PPB Herb MIX STD	PP24067	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24061 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1456	200 PPB Herb MIX STD	PP24068	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.90000ml of E3826 + 0.10000ml of PP24061 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1854	1000 PPB HERB MIX ICV STD	PP24069	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24062 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1691	750 PPB ICV HERB STD	PP24070	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24069 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP24078	12/10/2024	06/05/2025	Abdul Mirza	None	None	Ankita Jodhani
								12/17/2024

FROM 1.25000ml of P13506 + 1.25000ml of P13507 + 1.25000ml of P13508 + 1.25000ml of P13509 + 195.00000ml of E3843 = Final Quantity: 200.000 ml

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	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	05/09/2025	11/09/2024 / Rajesh	11/07/2024 / Rajesh	E3826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/05/2025	12/05/2024 / Rajesh	12/05/2024 / Rajesh	E3843

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	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	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0170243	05/26/2025	11/26/2024 / Ankita	04/06/2021 / dhaval	P10549

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11180

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11181

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32062 / Herbicide Mix, 500/8000, Standard #4 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0155055	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12619

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32055 / Herbicide Mix, 500/8000, Standard #1 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A192429	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12629

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32059 / Herbicide Mix#3 (Methyl Ester), 20000 ug/ml	A0199844	05/26/2025	11/26/2024 / Ankita	07/24/2023 / Abdul	P12686

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL,	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13506

MeOH

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,	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13507

MeOH

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	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13508

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13509

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/03/2024 / Abdul	P13517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/03/2024 / Abdul	P13517

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

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



From M4452 to M4459

Received on : 10/30/2019

Received by : AK

Material No.: 3624-05

Batch No.: 0000237721

Manufactured Date: 2019/04/15

Retest Date: 2026/04/13

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

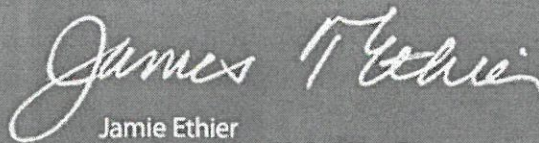
Test	Specification	Result
Assay (NaCl) (by Ag titrn)	$\geq 99.0 \%$	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	$\leq 0.005 \%$	< 0.001
Iodide (I)	$\leq 0.002 \%$	< 0.002
Bromide (Br)	$\leq 0.01 \%$	< 0.01
Chlorate and Nitrate (as NO_3)	$\leq 0.003 \%$	< 0.001
ACS - Phosphate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

For Laboratory, Research or Manufacturing Use

Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Ether, Anhydrous
BAKER ANALYZED® A.C.S. Reagent
Contains BHT as a Preservative
Suitable for Fat Extraction



Material No.: 9244-03
Batch No.: 0000288039
Manufactured Date: 2021/07/22
Expiration Date: 2023/07/22
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

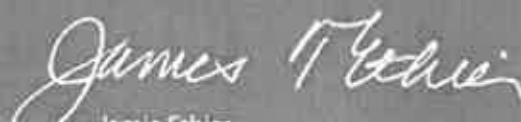
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titration Acid (μeq/g)	<= 0.2	< 0.2
Water (by KF, coulometric)	<= 0.01 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Recd. by RP on 7/13/22

E 3370


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

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

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

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

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

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

Storage: Room Temperature

Pellets

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

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

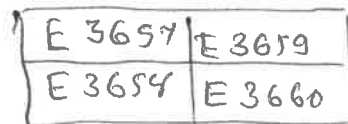
This document has been electronically produced and is valid without a signature.

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

Additional Information

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

Product meets analytical specifications of the grades listed.



Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor



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

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 10/9/24

E 3818

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

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

E 3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 12/5/24

E 3843

Jamie Croak
Director Quality Operations, Bioscience Production

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

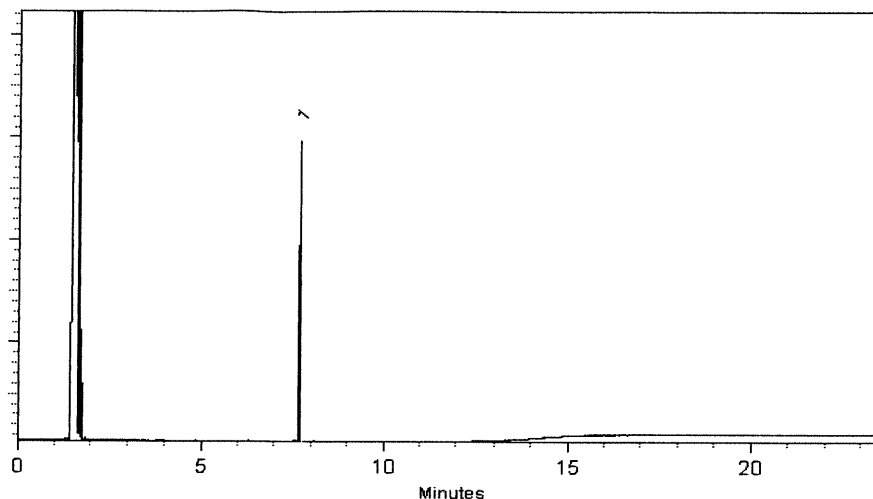
250°C

Det. Temp:

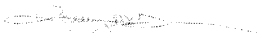
330°C

Det. Type:

FID

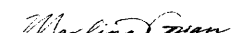


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864
Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard
515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : February 29, 2028 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

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

P11177
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P11186
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01/02/21

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

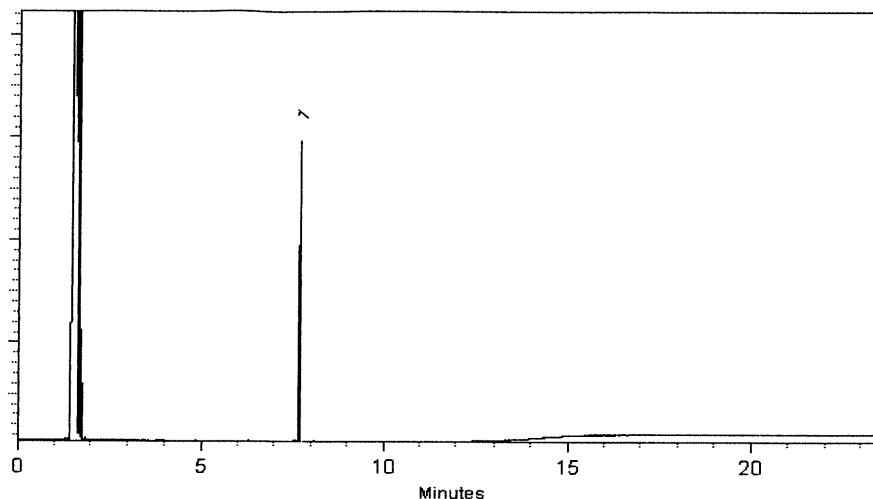
250°C

Det. Temp:

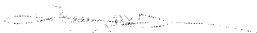
330°C

Det. Type:

FID

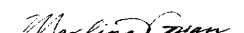


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

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

P11177
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P11186
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AR
01/02/21



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32062 **Lot No.:** A0155055

Description : Herbicide Mix #4/ME (Methyl Ester)

Herbicide Mix #4/ME (Methyl Ester) 200µg/mL,
Hexane/Methyl-tert-butyl-ether, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 10°C or colder

P12616 / (5)
↓
P12620
Date = 7/5/2023

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	3,5-Dichlorobenzoic acid methyl ester CAS # 2905-67-1 (Lot 3903900) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
2	4-Nitroanisole CAS # 100-17-4 (Lot 24765/7) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
3	Pentachloroanisole CAS # 1825-21-4 (Lot 7921100) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
4	Chloramben methyl ester CAS # 7286-84-2 (Lot 6487100) Purity 98%	199.9 µg/mL	+/- 1.4176	µg/mL	Gravimetric	
			+/- 6.7480	µg/mL	Unstressed	
			+/- 6.7480	µg/mL	Stressed	
5	Bentazon methyl ester CAS # 61592-45-8 (Lot 817100) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
6	Picloram methyl ester CAS # 14143-55-6 (Lot 386-21B) Purity 98%	201.9 µg/mL	+/- 1.4315	µg/mL	Gravimetric	
			+/- 6.8141	µg/mL	Unstressed	
			+/- 6.8141	µg/mL	Stressed	
7	DCPA methyl ester (Chlorthal-dimethyl) CAS # 1861-32-1 (Lot 8008700) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	

8	Acifluorfen methyl ester		200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 50594-67-7	(Lot 6282300)		+/- 6.7507	µg/mL	Unstressed
	Purity 99%			+/- 6.7507	µg/mL	Stressed

Solvent: Hexane/Methyl-tert-butyl-ether
CAS # 110-54-3/1634-04-4
Purity 99%

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

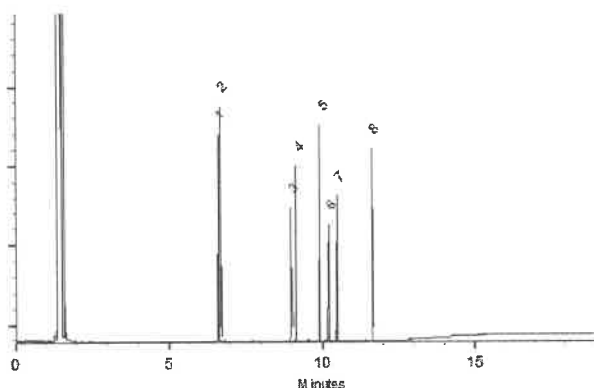
Carrier Gas:
 hydrogen-constant pressure 10 psi.

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

Inj. Temp:
 250°C

Det. Temp:
 330°C

Det. Type:
 FID



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

Michael Maje

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson
 Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32055 **Lot No.:** A0192429

Description : Herbicide Mix #1/ME (Methyl Ester)
Herbicide Mix #1/ME (Methyl Ester) 200 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P12626 / 5
P12630
7/5/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dicamba methyl ester	6597-78-0	11705400	99%	201.6 µg/mL	+/- 3.4204
2	Dichlorprop methyl ester	57153-17-0	11672100	99%	201.4 µg/mL	+/- 3.4170
3	2,4-D methyl ester	1928-38-7	10048000	99%	201.2 µg/mL	+/- 3.4136
4	2,4,5-TP (silvex) methyl ester	4841-20-7	6364900	99%	201.2 µg/mL	+/- 3.4136
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	200.7 µg/mL	+/- 3.4052
6	Dinoseb methyl ether	6099-79-2	12914300	99%	200.8 µg/mL	+/- 3.4068
7	2,4-DB methyl ester	18625-12-2	12542000	99%	201.0 µg/mL	+/- 3.4102

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

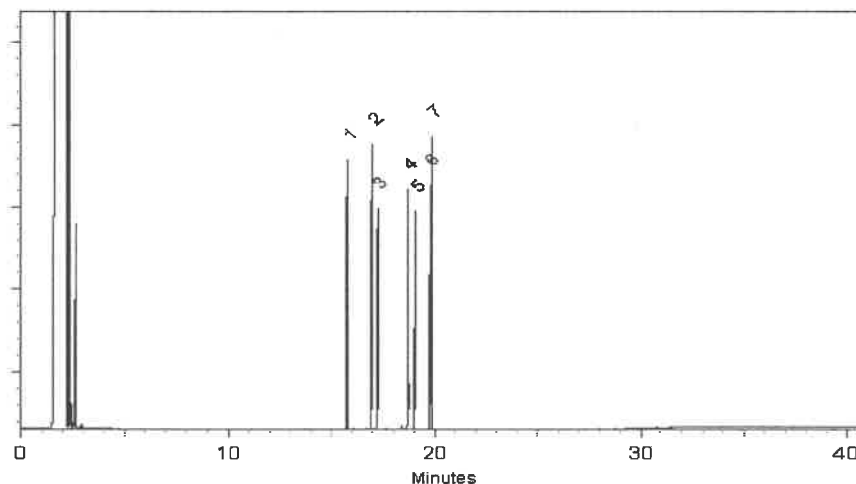
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Penelope Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 09-Dec-2022

Balance Serial # 1128360905

Jennifer Pollino

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 12-Dec-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32059 **Lot No.:** A0199844

Description : Herbicide Mix #3/ME (Methyl Ester)
Herbicide Mix #3/ME (Methyl Ester) 20,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P 12685 / (S)
↓
P 12689
↓
RAU = 7/24/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	MCPP (Mecoprop) methyl ester	23844-56-6	14546400	99%	20,035.0 µg/mL	+/- 360.1907
2	MCPA methyl ester	2436-73-9	SL201209	99%	20,055.0 µg/mL	+/- 360.5503

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

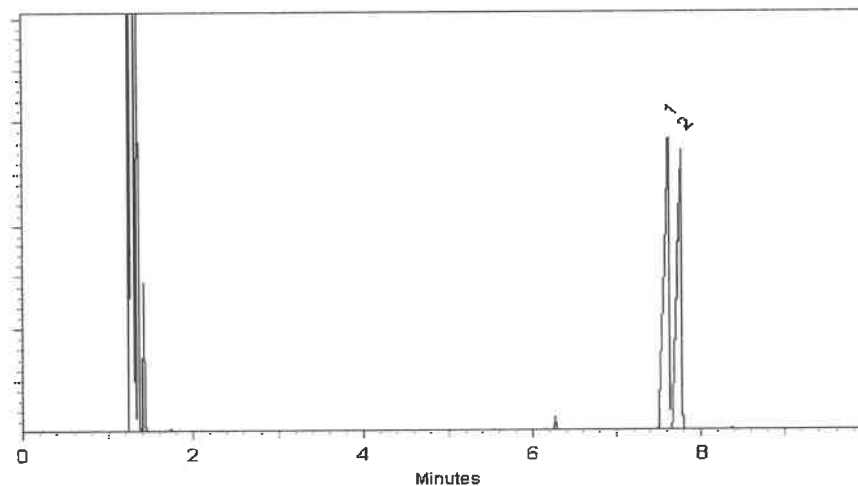
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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


Morgan Craighead - Mix Technician

Date Mixed: 12-Jul-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 19-Jul-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P12706
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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.

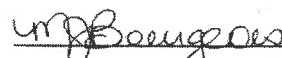
Expiration of Certification:

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

P 12706 / (10)
↓
P 12715
✓ RAUF
8.15.23



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

P12706
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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.

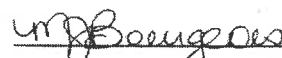
Expiration of Certification:

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



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:

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Intended Use:

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Sample lot approver:


Monica Bourgeois
QMS Representative

P12766 / (20)
↓
P12785 /
✓
9/11/2023



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

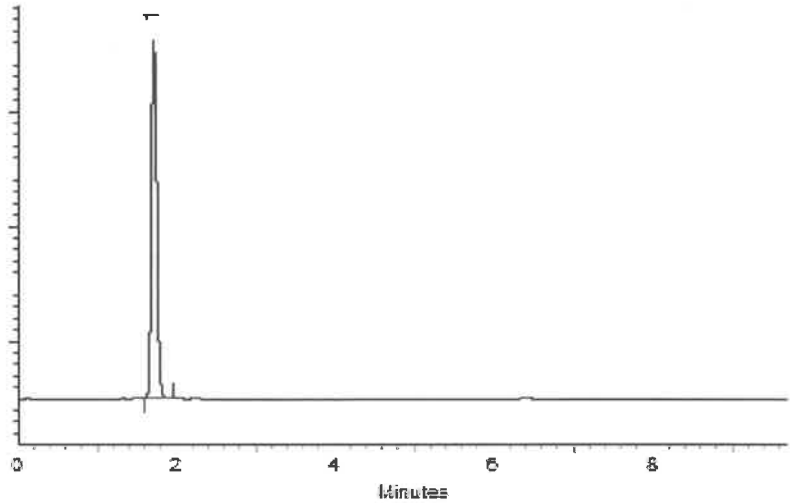
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

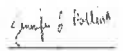


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

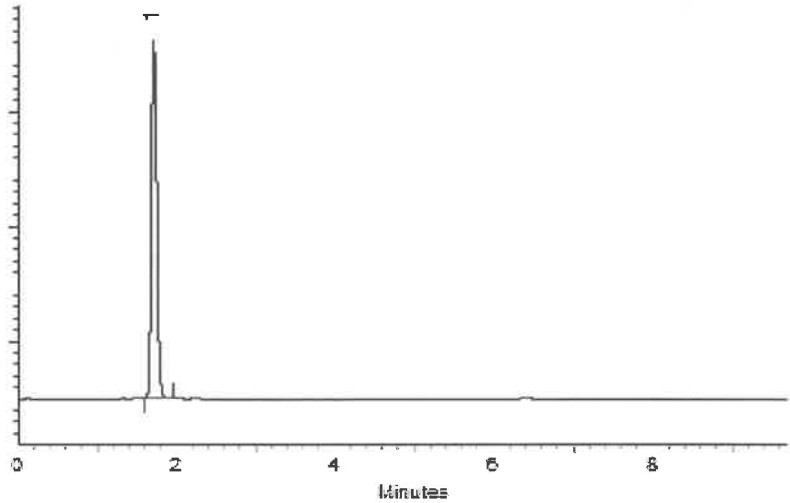
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

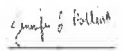


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

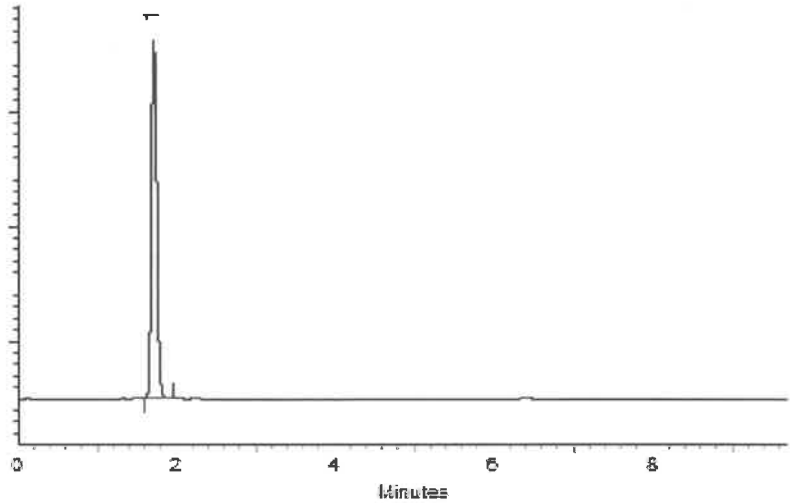
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

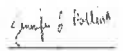


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Ethan Winiarski - Operations Tech I

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.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:
1.0 ml/min.

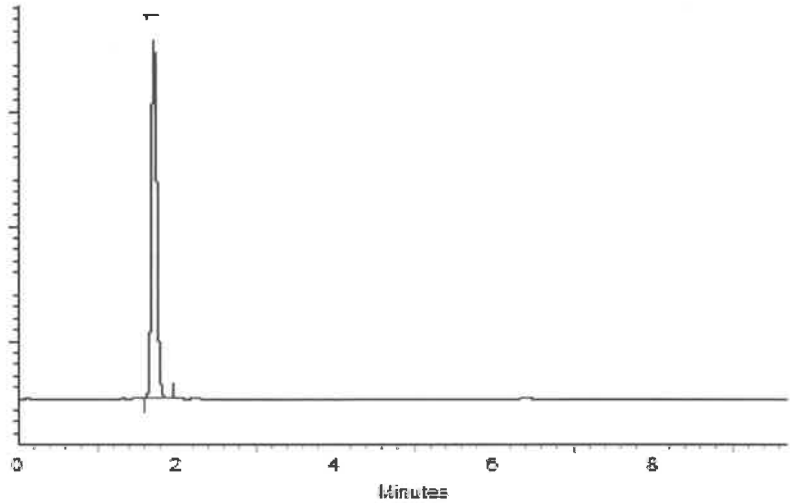
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

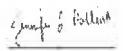


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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- 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:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

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

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

P13517
P13518 } ②
✓ *RAUF*
9/4/2024



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Parsons
ADDRESS: 301 Plainfield Road
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: Stephen Liberatore
PHONE: (315) 418-8767 FAX: —

CLIENT PROJECT INFORMATION

PROJECT NAME: Con Ed East River SI
PROJECT NO.: 453648 LOCATION: Manhattan
PROJECT MANAGER: S. Liberatore NY
e-mail: Stephen.Liberatore@parsons.com
PHONE: (315) 418-8767 FAX: —

CLIENT BILLING INFORMATION

BILL TO: Parsons PO#: 453648
ADDRESS: 301 Plainfield Road
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: S. Liberatore PHONE: (315) 418-8767

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5-day rush DAYS*
HARDCOPY (DATA PACKAGE): 5-day rush DAYS*
EDD: 5-day rush DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1 VOCs, SVOCs
2 TAL metals
3 PCBs, TPH
4 TCLP VOCs, TCLP SVOCs
5 TCLP metals
6 TCLP pest. TCLP herb
7 Ignitability, reactivity
8 Corrosivity, pH
9

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES								COMMENTS
			COMP	GRAB	DATE	TIME		E	E	E	E	E	E	E	E	
1.	WC-Soil - 2024/12/19	Soil	X		12/19/24	1430	14	X	X	X	X	X	X	X	X	
2.																
3.																
4.																
5.																
6.																
7.																
8.																
9.																
10.																

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. K. Walenta DATE/TIME: 12-19-24/1630 RECEIVED BY: [Signature] 12-19-24
RELINQUISHED BY SAMPLER: 2. DATE/TIME: RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3. DATE/TIME: RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.1 °C

Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5362 PARS02

Order Date : 12/20/2024 10:07:00 AM

Project Mgr :

Client Name : PARSONS Main of New Yc

Project Name : Con Edison Non-MGP - Ea

Report Type : Results Only

Client Contact : Stephen Liberatore

Receive Date/Time : 12/19/2024 4:30:00 PM

EDD Type : NYSDEC EDD V-4

Invoice Name : PARSONS Main of New Yc

Purchase Order :

Hard Copy Date :

Invoice Contact : Stephen Liberatore

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5362-01	WC-SOIL-20241219	Solid	12/19/2024	14:30	VOC-TCLVOA-10		8260D		5 Bus. Days

Relinquished By :

Date / Time : 12-20-24 11:00

Received By :

Date / Time : 12/20/24 11:00

Storage Area : VOA Refridgerator Room