

DATA PACKAGE
GC SEMI-VOLATILES

PROJECT NAME : NJ SOIL PT

CHEMTECH CONSULTING GROUP

284 Sheffield St,

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : P4495

ATTENTION : QA Officer



Laboratory Certification ID # 20012



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Cover Page

Order ID : P4495

Project ID : NJ Soil PT

Client : Chemtech Consulting Group

Lab Sample Number

P4495-01
P4495-02
P4495-03
P4495-04
P4495-05
P4495-06
P4495-07
P4495-08
P4495-09
P4495-10
P4495-11
P4495-12
P4495-13
P4495-14
P4495-15
P4495-16
P4495-17
P4495-18
P4495-19
P4495-20
P4495-21
P4495-22
P4495-23
P4495-24
P4495-25

Client Sample Number

PT-AN-SOIL
PT-CORR-SOIL
PT-CN-SOIL
PT-CN-SOIL
PT-FP-SOIL
PT-CR6-SOIL
PT-NUT-SOIL
PT-NUT-SOIL
PT-OGR-SOIL
PT-MET-SOIL
PT-BNA-SOIL
PT-TRIAZINE-SOIL
PT-PAH-SOIL
PT-DIES-SOIL
PT-GAS-SOIL
PT-NJEPH-SOIL
PT-HERB-SOIL
PT-PCB-SOIL
PT-PCBO-SOIL
PT-PEST-SOIL
PT-CHLR-SOIL
PT-TXP-SOIL
PT-VOA-SOIL
PT-SOL-SOIL
PT-NO2-SOIL

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

Signature : _____

Date: 12/2/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Chemtech Consulting Group

Project Name: NJ Soil PT

Project # N/A

Chemtech Project # P4495

Test Name: Herbicide Group1

A. Number of Samples and Date of Receipt:

25 Solid samples were received on 10/23/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Diesel Range Organics, EPH, Flash Point, Gasoline Range Organics, Herbicide Group1, Hexavalent Chromium, Mercury, Metals Group3, Metals ICP-Group1, Nitrite, Oil and Grease, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, Phosphorus, Total, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, TKN, TOC, TS and VOCMS Group1. This data package contains results for Herbicide Group1.

C. Analytical Techniques:

The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0.5 µm df, Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 µm df, Catalog #: 11324. The analysis of Herbicide Group1s was based on method 8151A and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PT-HERB-SOIL [2,4-DCAA(1) - 184%], PT-HERB-SOILRE [2 and 4-DCAA(1) - 191%] the failure samples in surrogates were reanalyzed to confirm the results as per method and reported in the data.

The Retention Times were acceptable for all samples.

The MS {P4821-05MS} with File ID: PS028539.D recoveries met the requirements for all compounds except for Dalapon[57%], Dinoseb[9%], MCPA[69%], MCPP[64%], Pentachlorophenol[62%] and PICLORAM [60%] Due to matrix interference.

The MSD {P4821-05MSD} with File ID: PS028540.D recoveries met the acceptable requirements except for Dalapon[54%], Dinoseb[9%], MCPP[65%], Pentachlorophenol[63%] and PICLORAM [62%] Due to matrix interference.



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Phone: 908 789 8900 Fax: 908 789 8922

The RPD met criteria .

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

E. Additional Comments:

BP-F-2MS & MSD was reported with J flag on form 1 for Dinoseb based on reporting criteria of high concentration from both column. Now for other column compound detection is below MDL therefore it is not detecting on form 10.

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P4495

MATRIX: Solid

METHOD: 8151A/3541

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified.			✓
2. Standard Summary Submitted.			✓
3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
4. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5. Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for PT-HERB-SOIL [2,4-DCAA(1) - 184%], PT-HERB-SOILRE [2 and4-DCAA(1) - 191%] the failure samples in surrogates were reanalyzed to confirm the results as per method and reported in the data.		✓	
6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {P4821-05MS} with File ID: PS028539.D recoveries met the requirements for all compounds except for Dalapon[57%], Dinoseb[9%], MCPA[69%], MCPP[64%], Pentachlorophenol[62%] and PICLORAM [60%] Due to matrix interference. The MSD {P4821-05MSD} with File ID: PS028540.D recoveries met the acceptable requirements except for Dalapon[54%], Dinoseb[9%], MCPP[65%], Pentachlorophenol[63%] and PICLORAM [62%] Due to matrix interference. The Blank Spike met requirements for all samples . The RPD met criteria .		✓	
7. Retention Time Shift Meet Criteria (if applicable) Comments:			✓



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

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

ADDITIONAL COMMENTS:

BP-F-2MS & MSD was reported with J flag on form 1 for Dinoseb based on reporting criteria of high concentration from both column. Now for other column compound detection is below MDL therefore it is not detecting on form 10.
The soil samples results are based on a dry weight basis.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4495

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/02/2024

LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-14	PT-DIES-SOIL	SOIL	Diesel Range Organics	8015D	10/21/24	10/24/24	10/25/24	10/23/24
P4495-15	PT-GAS-SOIL	SOIL	Gasoline Range Organics	8015D	10/21/24		10/24/24	10/23/24
P4495-16	PT-NJEPH-SOIL	Solid	EPH EPH EPH	NJEPH NJEPH NJEPH	10/21/24	10/25/24 10/25/24 10/25/24	10/28/24 10/29/24 10/28/24	10/23/24
P4495-16DL 2	PT-NJEPH-SOILDL2	Solid	EPH	NJEPH	10/21/24	10/25/24	10/28/24	10/23/24
P4495-17	PT-HERB-SOIL	SOIL	Herbicide Group1	8151A	10/21/24	11/14/24	11/25/24	10/23/24
P4495-17RE	PT-HERB-SOILRE	SOIL	Herbicide Group1	8151A	10/21/24	11/14/24	11/25/24	10/23/24
P4495-18	PT-PCB-SOIL	SOIL	PCB	8082A	10/21/24	10/25/24	10/25/24	10/23/24
P4495-18DL	PT-PCB-SOIL DL	SOIL	PCB	8082A	10/21/24	10/25/24	10/25/24	10/23/24
P4495-19	PT-PCBO-SOIL	SOIL	PCB	8082A	10/21/24	10/25/24	10/28/24	10/23/24
P4495-19DL	PT-PCBO-SOILDL	SOIL			10/21/24			10/23/24

LAB CHRONICLE

			PCB	8082A		10/25/24	10/28/24	
P4495-20	PT-PEST-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL	PT-PEST-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL 2	PT-PEST-SOILDL2	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-21	PT-CHLR-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group2	8081B		10/25/24	10/31/24	
P4495-22	PT-TXP-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	
P4495-22DL	PT-TXP-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	

Hit Summary Sheet
SW-846

SDG No.: P4495

Order ID: P4495

Client: Chemtech Consulting Group

Project ID: NJ Soil PT

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PT-HERB-SOIL								
P4495-17	PT-HERB-SOIL	SOIL	DICAMBA	158		8.60	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	DICHLORPROP	203		9.50	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	2,4-D	223		12.0	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	2,4,5-TP (Silvex)	145		9.30	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	2,4,5-T	154		10.1	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	2,4-DB	226	P	18.2	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	DINOSEB	89.5	P	12.3	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	Pentachlorophenol	78.7		10.5	66.7	ug/Kg
Total Concentration:				1,277.200				

Client ID : PT-HERB-SOILRE								
P4495-17RE	PT-HERB-SOILRE	SOIL	DICAMBA	159		8.60	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	DICHLORPROP	203		9.50	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	2,4-D	224		12.0	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	2,4,5-TP (Silvex)	143		9.30	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	2,4,5-T	160		10.1	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	2,4-DB	226	P	18.2	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	DINOSEB	83.6	P	12.3	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	Pentachlorophenol	74.3		10.5	66.7	ug/Kg
Total Concentration:				1,272.900				

Surrogate Summary

SDG No.: **P4495**

Client: **Chemtech Consulting Group**

Analytical Method: **8151A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS028487.D	PIBLK-PS028487.D	2,4-DCAA	1	500	548	110		39	175
		2,4-DCAA	2	500	547	109		39	175
I.BLK-PS028533.D	PIBLK-PS028533.D	2,4-DCAA	1	500	588	118		39	175
		2,4-DCAA	2	500	584	117		39	175
PB164971BL	PB164971BL	2,4-DCAA	1	500	497	99		10	141
		2,4-DCAA	2	500	484	97		10	141
PB164971BS	PB164971BS	2,4-DCAA	1	500	542	108		10	141
		2,4-DCAA	2	500	533	107		10	141
P4821-05MS	BP-F-2MS	2,4-DCAA	1	500	463	93		10	141
		2,4-DCAA	2	500	417	83		10	141
P4821-05MSD	BP-F-2MSD	2,4-DCAA	1	500	468	94		10	141
		2,4-DCAA	2	500	421	84		10	141
I.BLK-PS028544.D	PIBLK-PS028544.D	2,4-DCAA	1	500	607	121		39	175
		2,4-DCAA	2	500	600	120		39	175
I.BLK-PS028613.D	PIBLK-PS028613.D	2,4-DCAA	1	500	555	111		39	175
		2,4-DCAA	2	500	487	97		39	175
P4495-17	PT-HERB-SOIL	2,4-DCAA	1	500	922	184	*	10	141
		2,4-DCAA	2	500	299	60		10	141
P4495-17RE	PT-HERB-SOILRE	2,4-DCAA	1	500	957	191	*	10	141
		2,4-DCAA	2	500	294	59		10	141
I.BLK-PS028617.D	PIBLK-PS028617.D	2,4-DCAA	1	500	557	111		39	175
		2,4-DCAA	2	500	506	101		39	175



QC SUMMARY

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8151A

DataFile : PS028539.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: P4821-05MS	BP-F-2MS											
	DICAMBA	187.7	0	142	ug/Kg	76				10	112	
	MCPD	18.77	0	12.0	ug/Kg	64	*			70	130	
	Dalapon	187.7	0	107	ug/Kg	57	*			70	130	
	MCPA	18.77	0	12.9	ug/Kg	69	*			70	130	
	DICHLORPROP	187.7	0	136	ug/Kg	72				10	113	
	2,4-D	187.7	0	157	ug/Kg	84				10	144	
	2,4,5-TP(Silvex)	187.7	0	130	ug/Kg	69				10	114	
	2,4,5-T	187.7	0	131	ug/Kg	70				10	115	
	2,4-DB	187.7	0	118	ug/Kg	63				10	140	
	Dinoseb	187.7	0	16.0	ug/Kg	9	*			10	118	
	Pentachlorophenol	187.7	0	116	ug/Kg	62	*			70	130	
	4-Nitrophenol	187.7	0	131	ug/Kg	70				70	130	
	PICLORAM	187.7	0	113	ug/Kg	60	*			70	130	
	DCPA	187.7	0	147	ug/Kg	78				70	130	
	3,5-DICHLOROBENZO	187.7	0	141	ug/Kg	75				70	130	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8151A

DataFile : PS028540.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	BP-F-2MSD											
P4821-05MSD	DICAMBA	187.6	0	143	ug/Kg	76		0		10	112	20
	MCPD	18.76	0	12.2	ug/Kg	65	*	2		70	130	20
	Dalapon	187.6	0	101	ug/Kg	54	*	5		70	130	20
	MCPA	18.76	0	13.1	ug/Kg	70		1		70	130	20
	DICHLORPROP	187.6	0	137	ug/Kg	73		1		10	113	20
	2,4-D	187.6	0	159	ug/Kg	85		1		10	144	20
	2,4,5-TP(Silvex)	187.6	0	131	ug/Kg	70		1		10	114	20
	2,4,5-T	187.6	0	134	ug/Kg	71		1		10	115	20
	2,4-DB	187.6	0	120	ug/Kg	64		2		10	140	20
	Dinoseb	187.6	0	17.5	ug/Kg	9	*	0		10	118	20
	Pentachlorophenol	187.6	0	118	ug/Kg	63	*	2		70	130	20
	4-Nitrophenol	187.6	0	133	ug/Kg	71		1		70	130	20
	PICLORAM	187.6	0	116	ug/Kg	62	*	3		70	130	20
	DCPA	187.6	0	148	ug/Kg	79		1		70	130	20
	3,5-DICHLOROBENZO	187.6	0	143	ug/Kg	76		1		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8151A

Datafile : PS028536.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB164971BS	DICAMBA	166.6	169	ug/Kg	101				72	129	
	MCPD	16.66	16.2	ug/Kg	97				70	130	
	Dalapon	166.6	151	ug/Kg	91				70	130	
	MCPA	16.66	15.9	ug/Kg	95				70	130	
	DICHLORPROP	166.6	170	ug/Kg	102				77	135	
	2,4-D	166.6	169	ug/Kg	101				65	144	
	2,4,5-TP(Silvex)	166.6	173	ug/Kg	104				74	146	
	2,4,5-T	166.6	172	ug/Kg	103				77	134	
	2,4-DB	166.6	166	ug/Kg	100				72	122	
	Dinoseb	166.6	163	ug/Kg	98				74	132	
	Pentachlorophenol	166.6	182	ug/Kg	109				70	130	
	4-Nitrophenol	166.6	160	ug/Kg	96				70	130	
	PICLORAM	166.6	141	ug/Kg	85				70	130	
	DCPA	166.6	174	ug/Kg	104				70	130	
	3,5-DICHLOROBENZOIC	166.6	169	ug/Kg	101				70	130	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164971BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: PB164971BL

Lab File ID: PS028535.D

Matrix: (soil/water) Solid

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 11/14/2024

Date Analyzed (1): 11/14/2024

Date Analyzed (2): 11/14/2024

Time Analyzed (1): 16:35

Time Analyzed (2): 16:35

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
PB164971BS	PB164971BS	PS028536.D	11/14/2024	11/14/2024
BP-F-2MS	P4821-05MS	PS028539.D	11/14/2024	11/14/2024
BP-F-2MSD	P4821-05MSD	PS028540.D	11/14/2024	11/14/2024
PT-HERB-SOIL	P4495-17	PS028615.D	11/25/2024	11/25/2024

COMMENTS: _____



SAMPLE DATA

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-HERB-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-17	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.14 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028615.D	1	11/14/24 09:05	11/25/24 10:39	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
93-65-2	MCPP	1.00	U	1.00	6.70	ug/Kg
1918-00-9	DICAMBA	158		8.60	66.7	ug/Kg
75-99-0	DALAPON	24.7	U	24.7	66.7	ug/Kg
94-74-6	MCPA	1.70	U	1.70	6.70	ug/Kg
120-36-5	DICHLORPROP	203		9.50	66.7	ug/Kg
94-75-7	2,4-D	223		12.0	66.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	145		9.30	66.7	ug/Kg
93-76-5	2,4,5-T	154		10.1	66.7	ug/Kg
94-82-6	2,4-DB	226	P	18.2	66.7	ug/Kg
88-85-7	DINOSEB	89.5	P	12.3	66.7	ug/Kg
87-86-5	Pentachlorophenol	78.7		10.5	66.7	ug/Kg
100-02-7	4-Nitrophenol	17.5	U	17.5	66.7	ug/Kg
1918-02-1	PICLORAM	9.40	U	9.40	66.7	ug/Kg
1861-32-1	DCPA	11.6	U	11.6	66.7	ug/Kg
51-36-5	3,5-DICHLOROBENZOIC AC	11.0	U	11.0	66.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	922	*	10 - 141	184%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-HERB-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-17	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.14 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028615.D	1	11/14/24 09:05	11/25/24 10:39	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS112524\
 Data File : PS028615.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Nov 2024 10:39
 Operator : AR\AJ
 Sample : P4495-17
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PT-HERB-SOIL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/26/2024
 Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 25 10:57:18 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
4) S 2,4-DCAA	7.221	7.726	2356.2E6	386.0E6	921.889	298.700 #
Target Compounds						
5) T DICAMBA	7.414	7.927	5198.2E6	2654.7E6	475.071	465.398
8) T DICHLORPROP	8.122	8.642	1806.5E6	861.3E6	612.098	589.716
9) T 2,4-D	8.352	8.972	2152.3E6	976.4E6	673.248	623.674
10) T Pentachlo...	8.649	9.499	9906.2E6	3893.6E6	237.354m	194.241
11) T 2,4,5-TP ...	9.229	9.876	7305.7E6	3687.2E6	420.578	436.964
12) T 2,4,5-T	9.521	10.295	8025.6E6	3879.1E6	451.522	462.770
13) T 2,4-DB	10.141	10.860	221.7E6	714.5E6	81.332m	681.911 #
14) T DINOSEB	11.311	11.241	3846.9E6	971.0E6	269.812	175.640m#

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112524\
Data File : PS028615.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 10:39
Operator : AR\AJ
Sample : P4495-17
Misc :
ALS Vial : 4 Sample Multiplier: 1

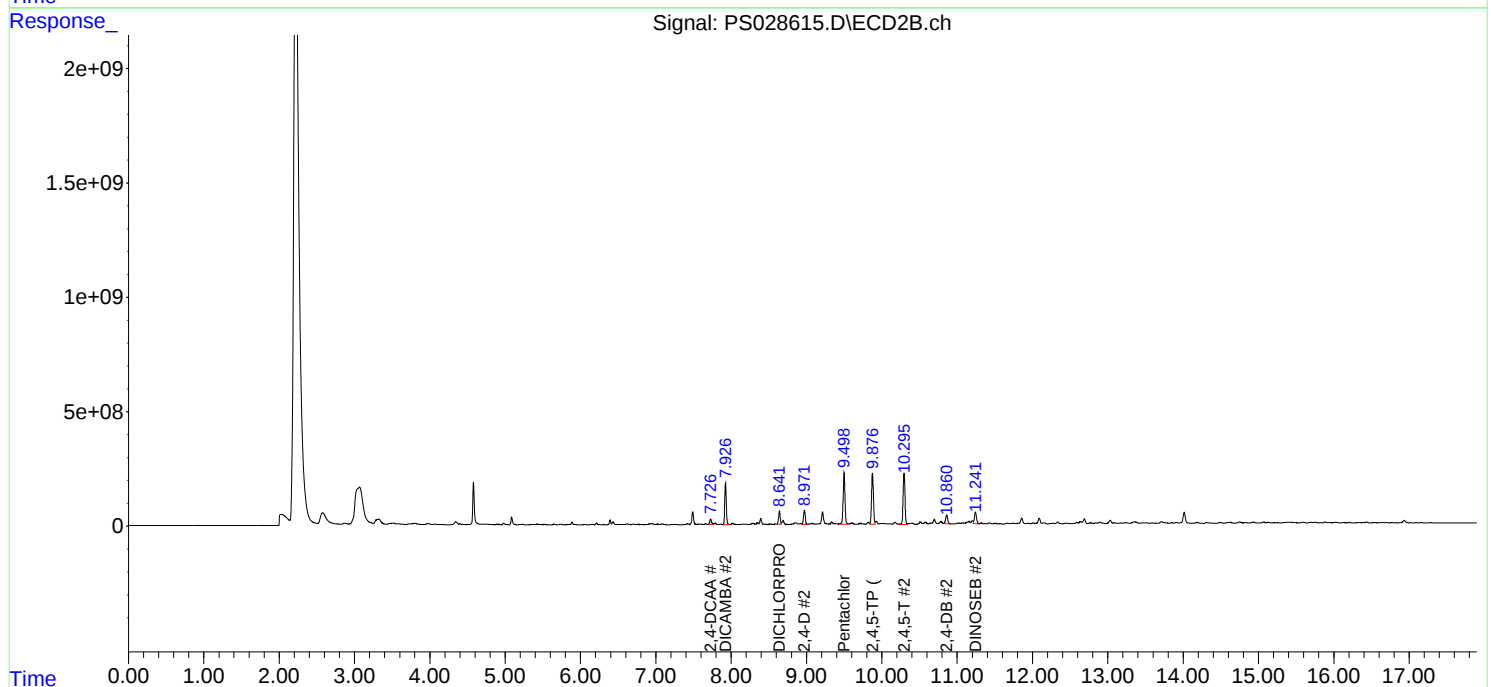
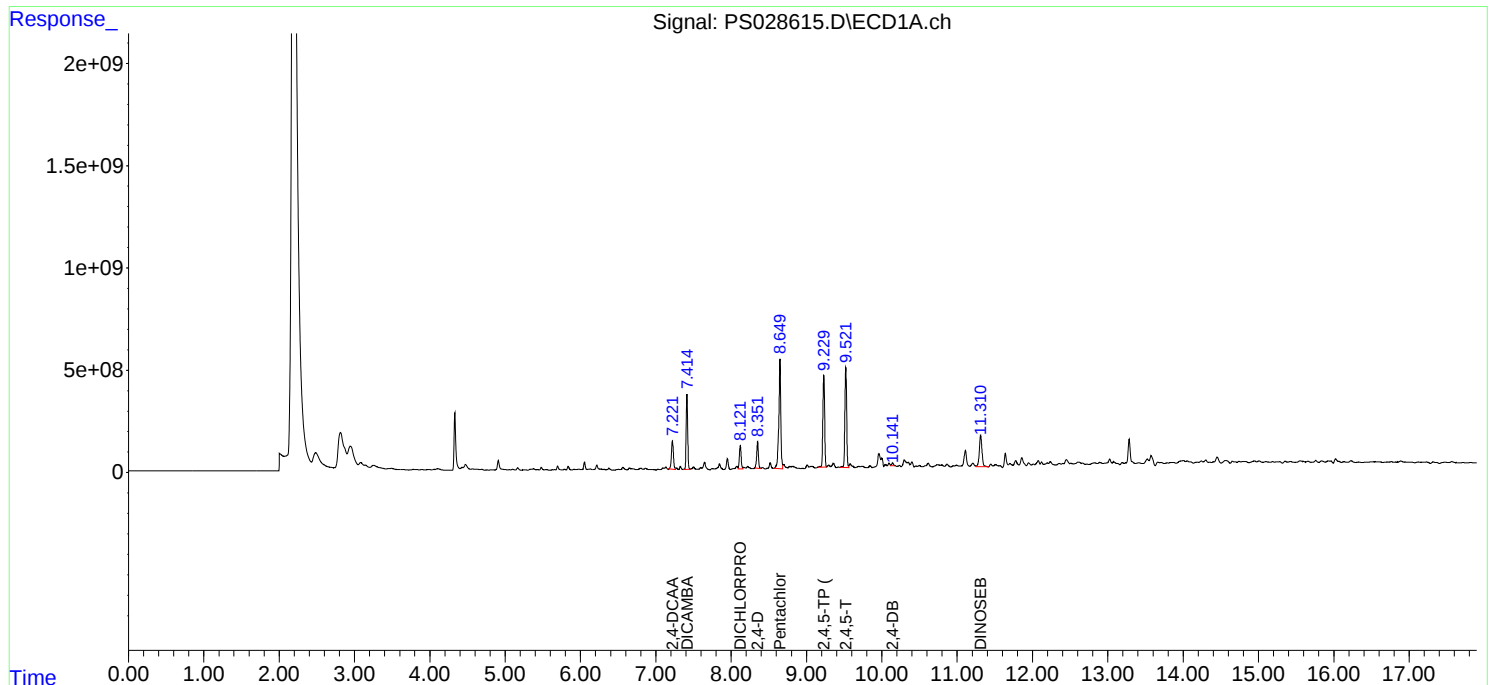
Instrument :
ECD_S
ClientSampleId :
PT-HERB-SOIL

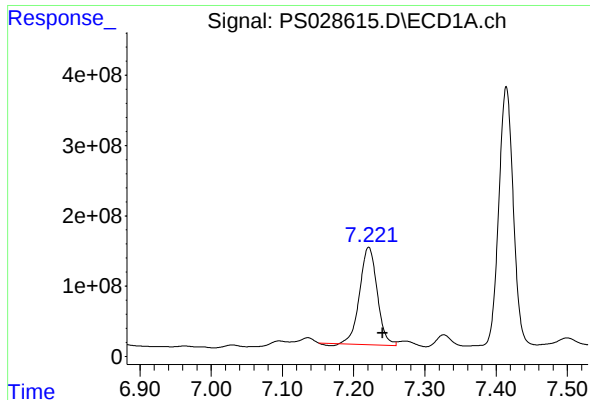
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 10:57:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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





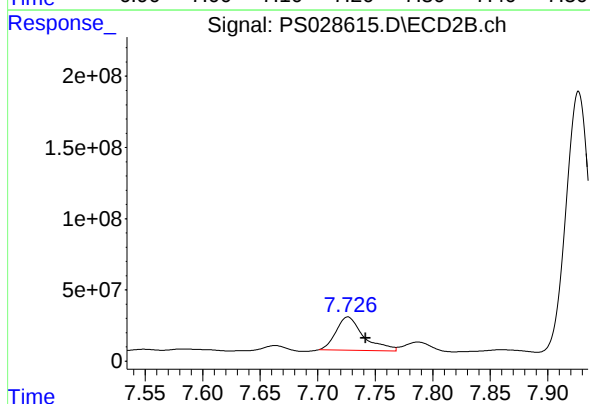
#4 2,4-DCAA

R.T.: 7.221 min
Delta R.T.: -0.020 min
Response: 2356238745
Conc: 921.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-SOIL

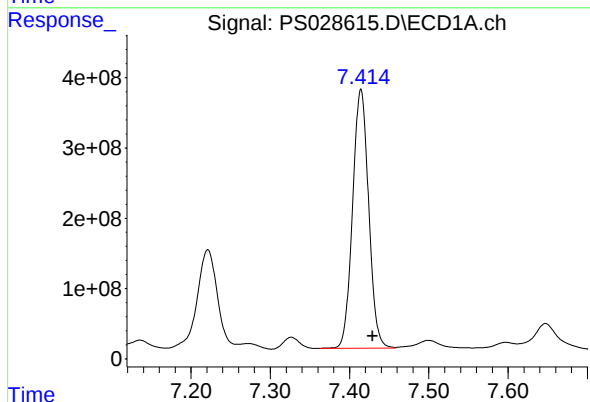
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



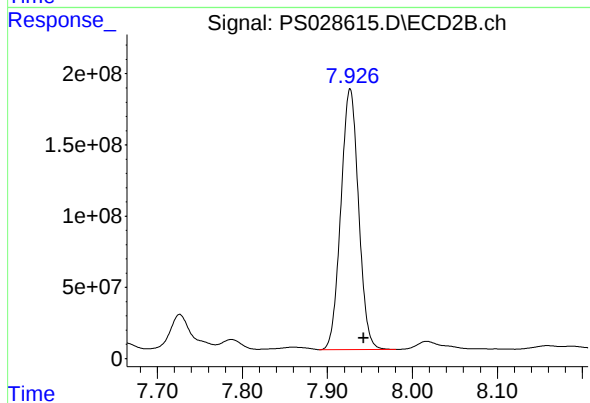
#4 2,4-DCAA

R.T.: 7.726 min
Delta R.T.: -0.016 min
Response: 386011400
Conc: 298.70 ng/ml



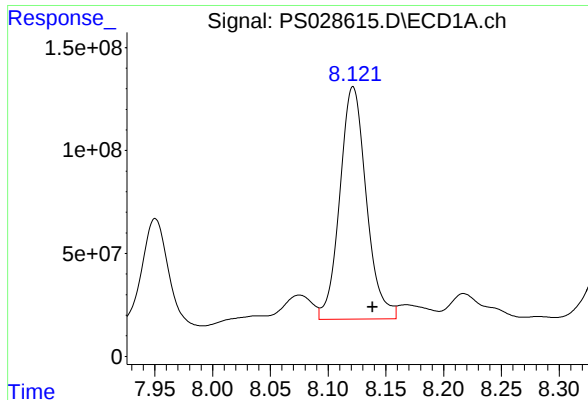
#5 DICAMBA

R.T.: 7.414 min
Delta R.T.: -0.015 min
Response: 5198213726
Conc: 475.07 ng/ml



#5 DICAMBA

R.T.: 7.927 min
Delta R.T.: -0.016 min
Response: 2654665062
Conc: 465.40 ng/ml



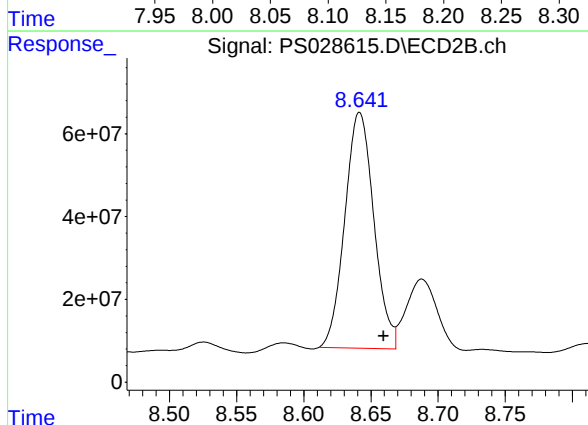
#8 DICHLORPROP

R.T.: 8.122 min
Delta R.T.: -0.017 min
Response: 1806521314
Conc: 612.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-SOIL

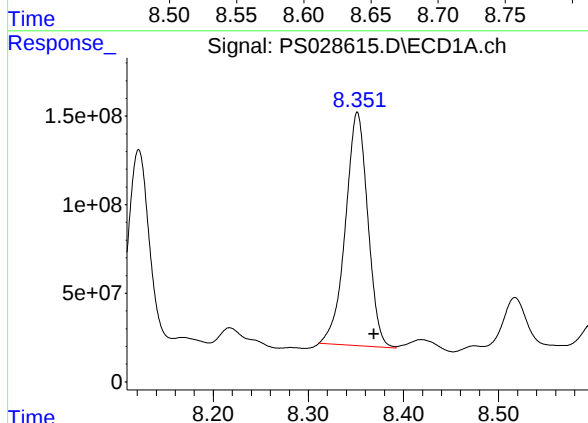
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



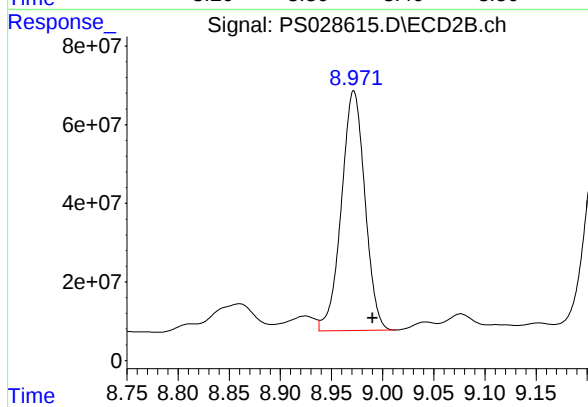
#8 DICHLORPROP

R.T.: 8.642 min
Delta R.T.: -0.018 min
Response: 861320922
Conc: 589.72 ng/ml



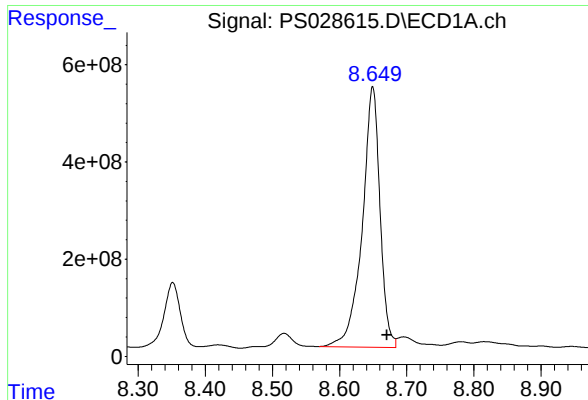
#9 2,4-D

R.T.: 8.352 min
Delta R.T.: -0.018 min
Response: 2152326723
Conc: 673.25 ng/ml



#9 2,4-D

R.T.: 8.972 min
Delta R.T.: -0.018 min
Response: 976392962
Conc: 623.67 ng/ml



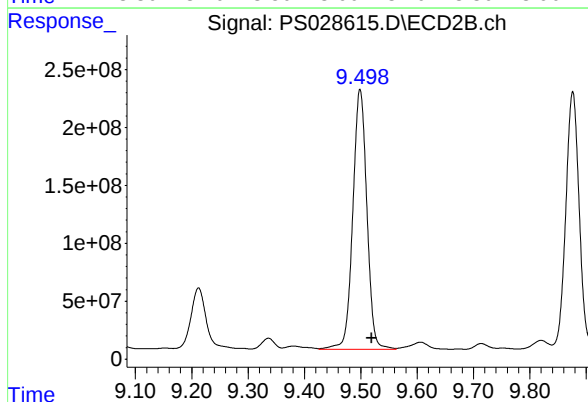
#10 Pentachlorophenol

R.T.: 8.649 min
Delta R.T.: -0.022 min
Response: 9906232656
Conc: 237.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-SOIL

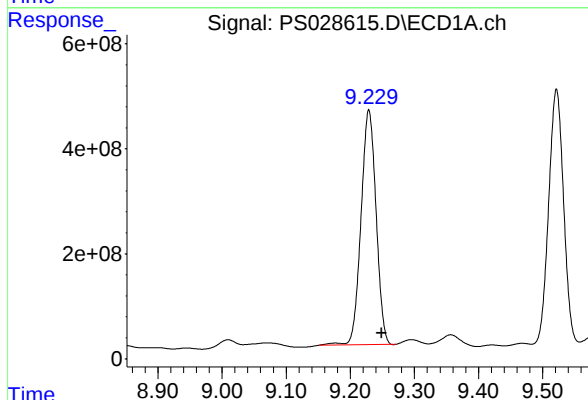
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



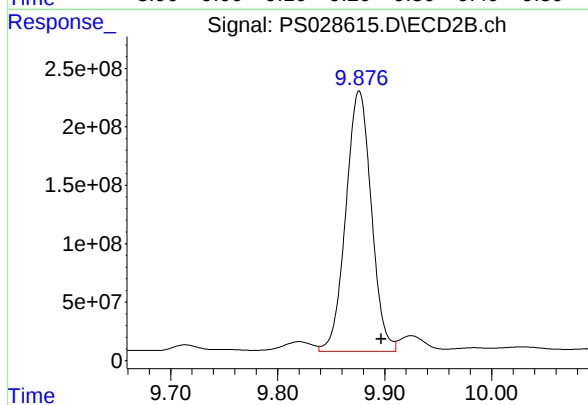
#10 Pentachlorophenol

R.T.: 9.499 min
Delta R.T.: -0.021 min
Response: 3893632814
Conc: 194.24 ng/ml



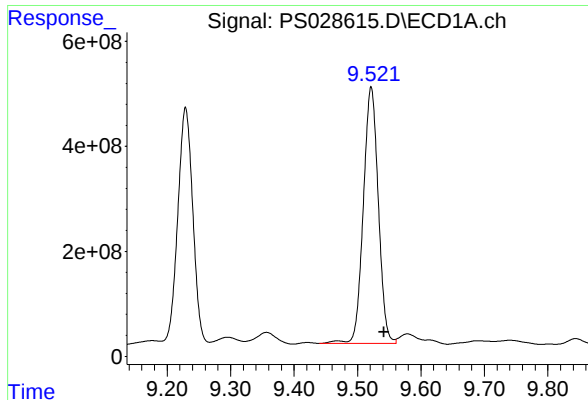
#11 2,4,5-TP (SILVEX)

R.T.: 9.229 min
Delta R.T.: -0.020 min
Response: 7305738621
Conc: 420.58 ng/ml



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

R.T.: 9.876 min
Delta R.T.: -0.021 min
Response: 3687232362
Conc: 436.96 ng/ml



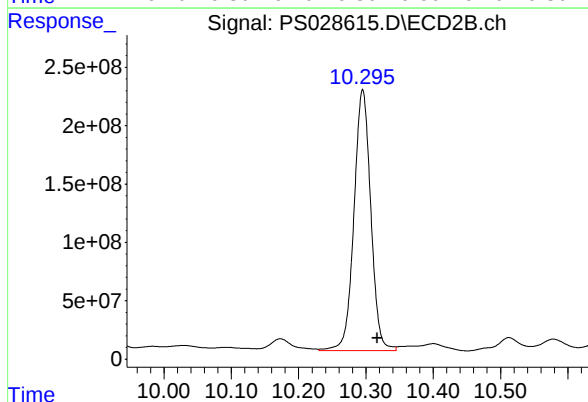
#12 2,4,5-T

R.T.: 9.521 min
Delta R.T.: -0.020 min
Response: 8025589664
Conc: 451.52 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-SOIL

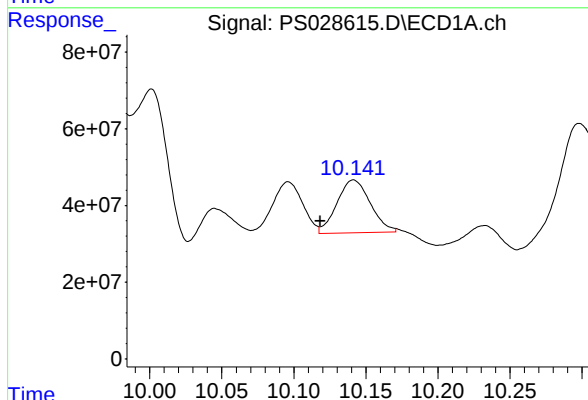
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



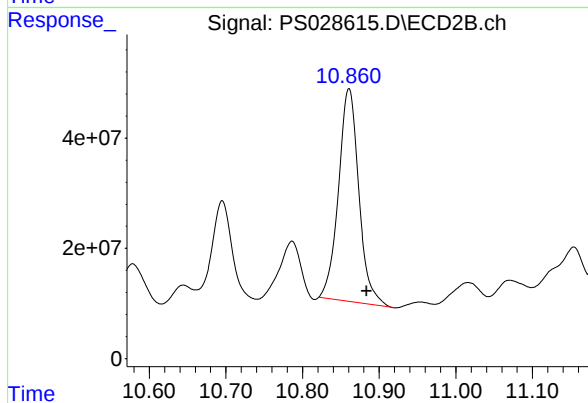
#12 2,4,5-T

R.T.: 10.295 min
Delta R.T.: -0.022 min
Response: 3879107333
Conc: 462.77 ng/ml



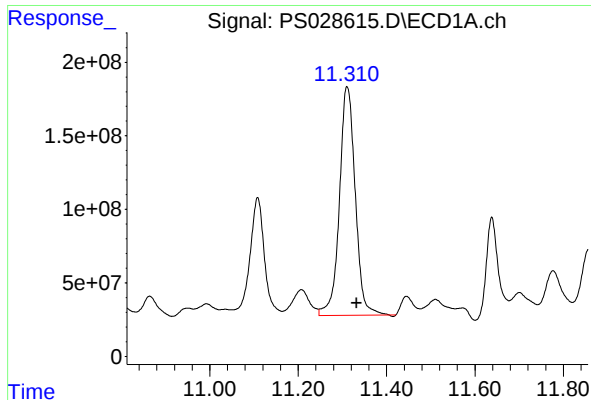
#13 2,4-DB

R.T.: 10.141 min
Delta R.T.: 0.023 min
Response: 221680818
Conc: 81.33 ng/ml m



#13 2,4-DB

R.T.: 10.860 min
Delta R.T.: -0.024 min
Response: 714462734
Conc: 681.91 ng/ml



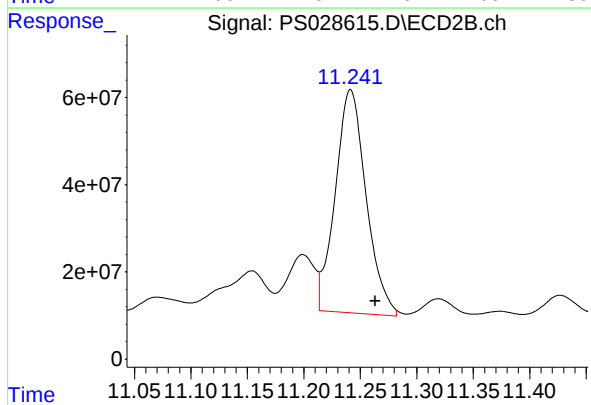
#14 DINOSEB

R.T.: 11.311 min
Delta R.T.: -0.021 min
Response: 3846910167
Conc: 269.81 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-SOIL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



#14 DINOSEB

R.T.: 11.241 min
Delta R.T.: -0.022 min
Response: 971027981
Conc: 175.64 ng/ml m

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-HERB-SOILRE	SDG No.:	P4495
Lab Sample ID:	P4495-17RE	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.14 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028616.D	1	11/14/24 09:05	11/25/24 11:03	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
93-65-2	MCPP	1.00	U	1.00	6.70	ug/Kg
1918-00-9	DICAMBA	159		8.60	66.7	ug/Kg
75-99-0	DALAPON	24.7	U	24.7	66.7	ug/Kg
94-74-6	MCPA	1.70	U	1.70	6.70	ug/Kg
120-36-5	DICHLORPROP	203		9.50	66.7	ug/Kg
94-75-7	2,4-D	224		12.0	66.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	143		9.30	66.7	ug/Kg
93-76-5	2,4,5-T	160		10.1	66.7	ug/Kg
94-82-6	2,4-DB	226	P	18.2	66.7	ug/Kg
88-85-7	DINOSEB	83.6	P	12.3	66.7	ug/Kg
87-86-5	Pentachlorophenol	74.3		10.5	66.7	ug/Kg
100-02-7	4-Nitrophenol	17.5	U	17.5	66.7	ug/Kg
1918-02-1	PICLORAM	9.40	U	9.40	66.7	ug/Kg
1861-32-1	DCPA	11.6	U	11.6	66.7	ug/Kg
51-36-5	3,5-DICHLOROBENZOIC AC	11.0	U	11.0	66.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	957	*	10 - 141	191%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-HERB-SOILRE	SDG No.:	P4495
Lab Sample ID:	P4495-17RE	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.14 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028616.D	1	11/14/24 09:05	11/25/24 11:03	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS112524\
 Data File : PS028616.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Nov 2024 11:03
 Operator : AR\AJ
 Sample : P4495-17RE
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PT-HERB-SOILRE

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/26/2024

Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 25 23:49:30 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
4) S 2,4-DCAA	7.220	7.726	2446.8E6	379.8E6	957.336m	293.926m#
Target Compounds						
5) T DICAMBA	7.414	7.927	5230.4E6	2705.0E6	478.012	474.214
8) T DICHLORPROP	8.121	8.641	1808.4E6	891.0E6	612.730	610.069m
9) T 2,4-D	8.351	8.971	2161.3E6	990.8E6	676.042	632.845m
10) T Pentachlo...	8.649	9.499	9346.4E6	3998.5E6	223.941	199.471
11) T 2,4,5-TP ...	9.229	9.875	7321.0E6	3629.2E6	421.459	430.090m
12) T 2,4,5-T	9.520	10.296	7778.7E6	4045.4E6	437.631m	482.613
13) T 2,4-DB	10.140	10.861	317.1E6	715.1E6	116.351m	682.495 #
14) T DINOSEB	11.310	11.242	3591.9E6	933.3E6	251.926m	168.809m#

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112524\
Data File : PS028616.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:03
Operator : AR\AJ
Sample : P4495-17RE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PT-HERB-SOILRE

Manual Integrations

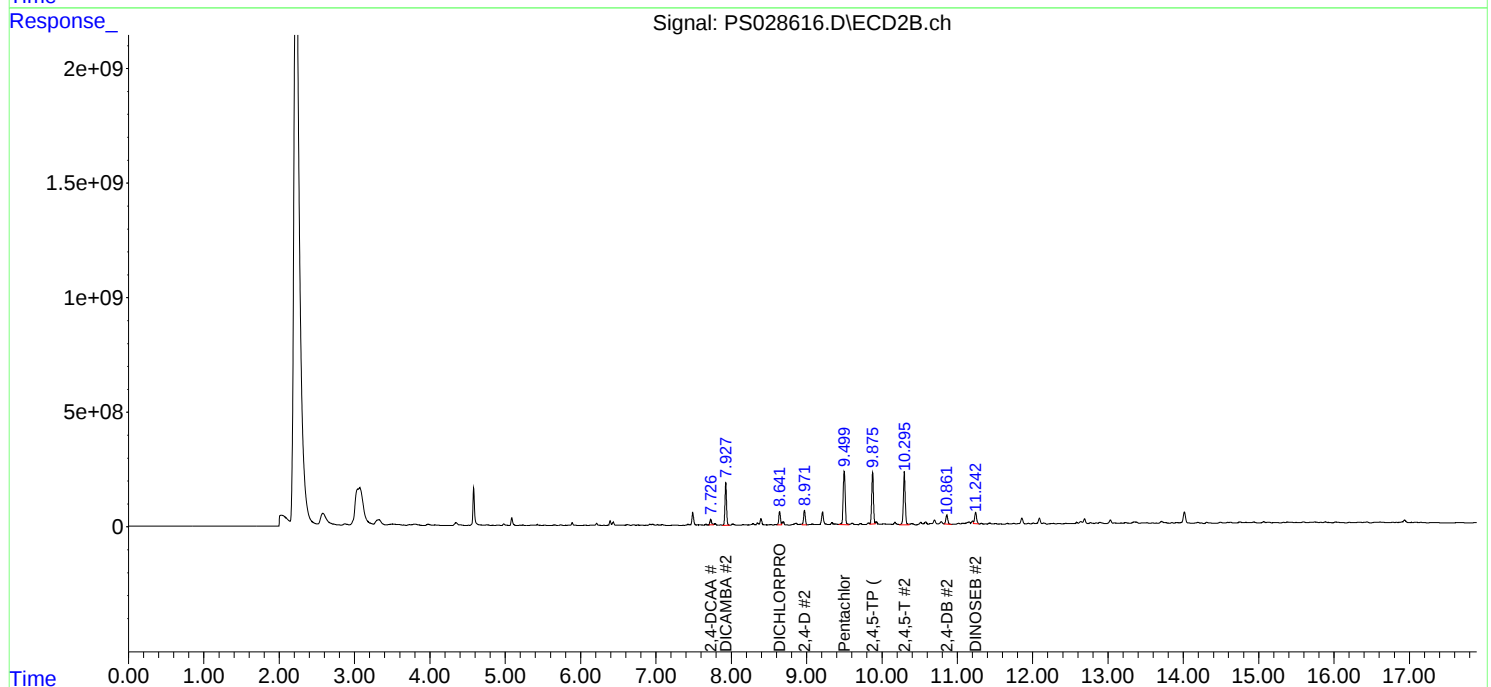
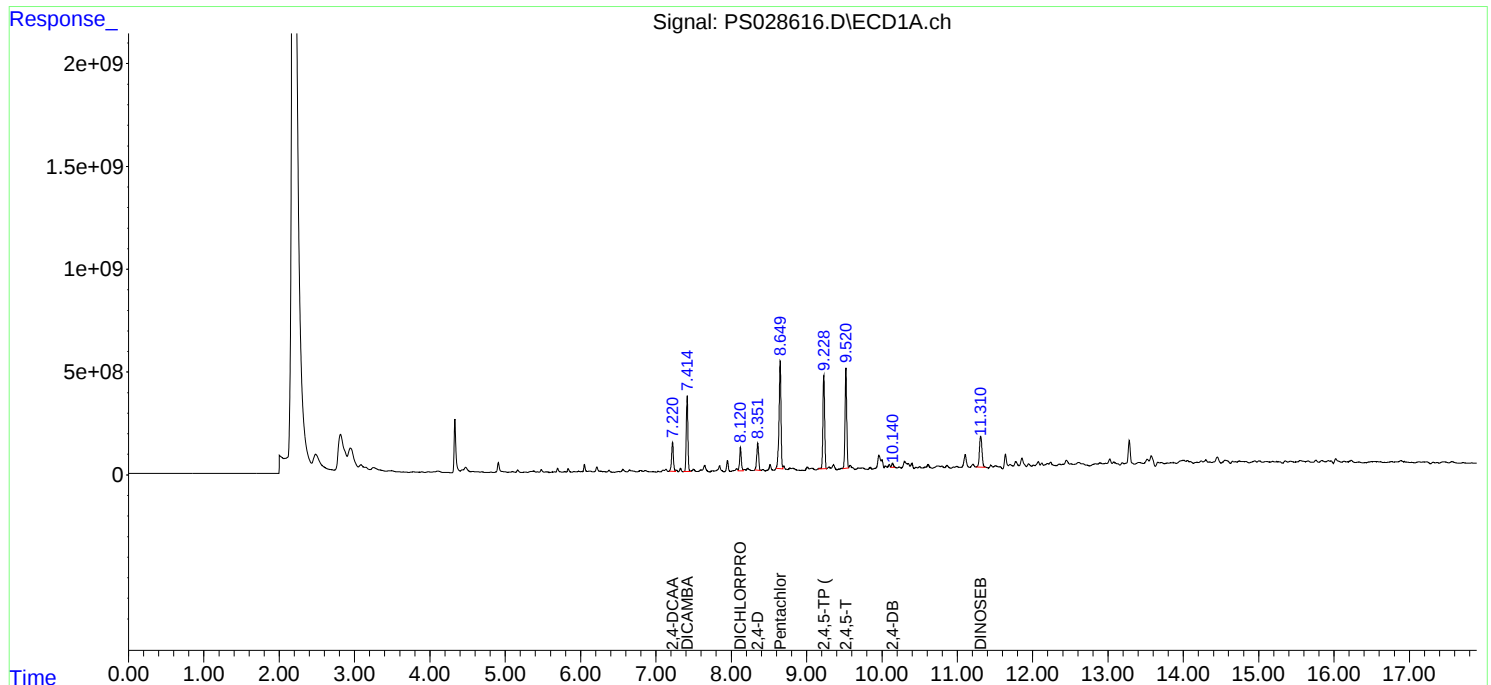
APPROVED

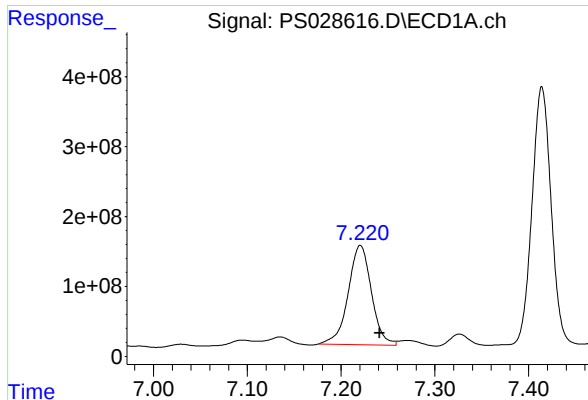
Reviewed By :Yogesh Patel 11/26/2024

Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 23:49:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#4 2,4-DCAA

R.T.: 7.220 min
Delta R.T.: -0.021 min
Response: 2446836688
Conc: 957.34 ng/ml

Instrument :

ECD_S

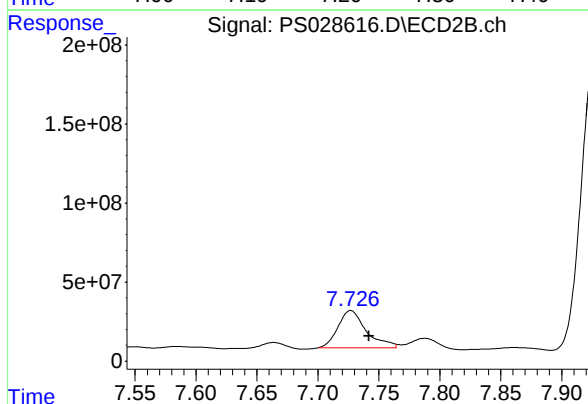
ClientSampleId :

PT-HERB-SOILRE

Manual Integrations

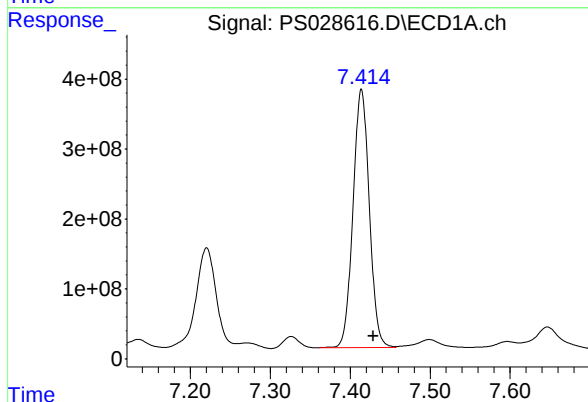
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



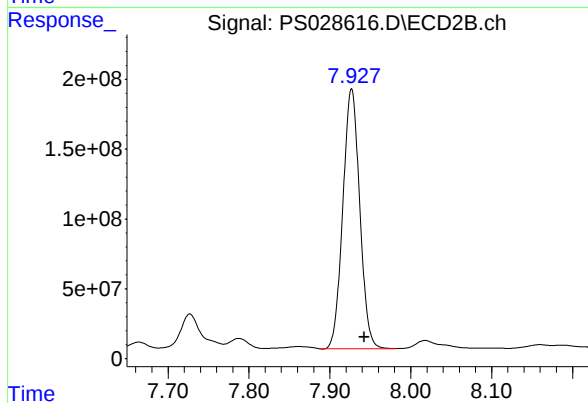
#4 2,4-DCAA

R.T.: 7.726 min
Delta R.T.: -0.015 min
Response: 379841581
Conc: 293.93 ng/ml



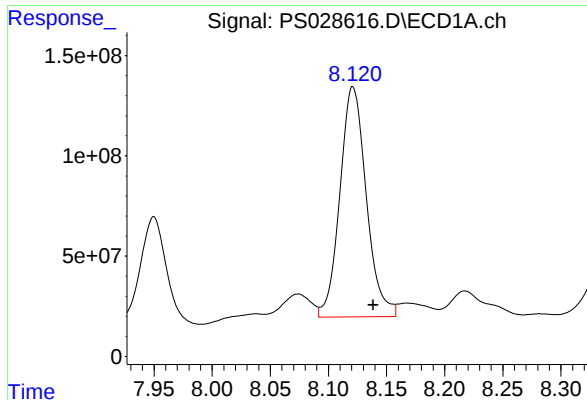
#5 DICAMBA

R.T.: 7.414 min
Delta R.T.: -0.015 min
Response: 5230398785
Conc: 478.01 ng/ml



#5 DICAMBA

R.T.: 7.927 min
Delta R.T.: -0.016 min
Response: 2704954789
Conc: 474.21 ng/ml



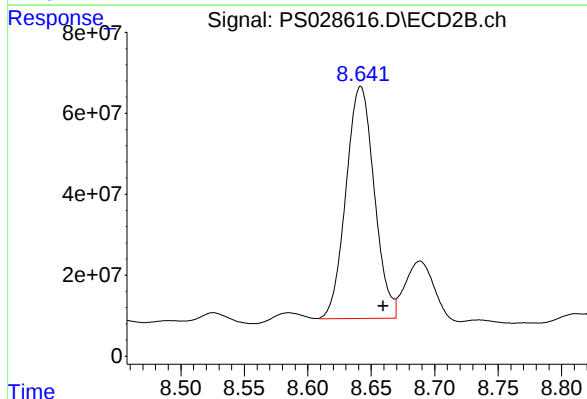
#8 DICHLORPROP

R.T.: 8.121 min
Delta R.T.: -0.017 min
Response: 1808385696
Conc: 612.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-SOILRE

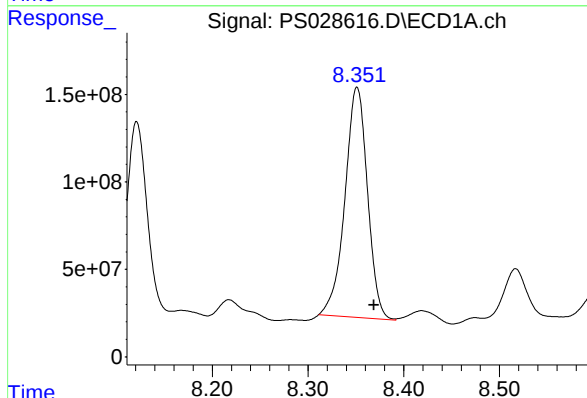
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



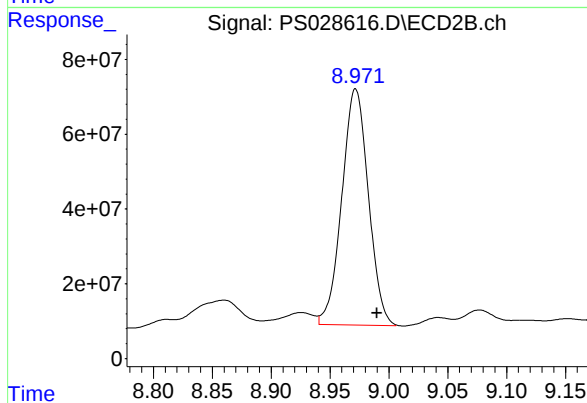
#8 DICHLORPROP

R.T.: 8.641 min
Delta R.T.: -0.018 min
Response: 891047724
Conc: 610.07 ng/ml



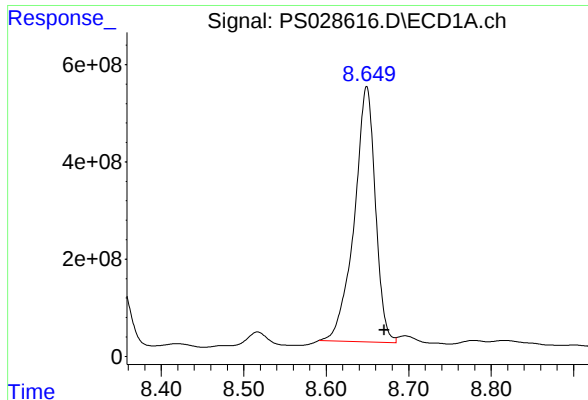
#9 2,4-D

R.T.: 8.351 min
Delta R.T.: -0.018 min
Response: 2161258356
Conc: 676.04 ng/ml



#9 2,4-D

R.T.: 8.971 min
Delta R.T.: -0.019 min
Response: 990751155
Conc: 632.84 ng/ml



#10 Pentachlorophenol

R.T.: 8.649 min
Delta R.T.: -0.021 min
Response: 9346405494
Conc: 223.94 ng/ml

Instrument :

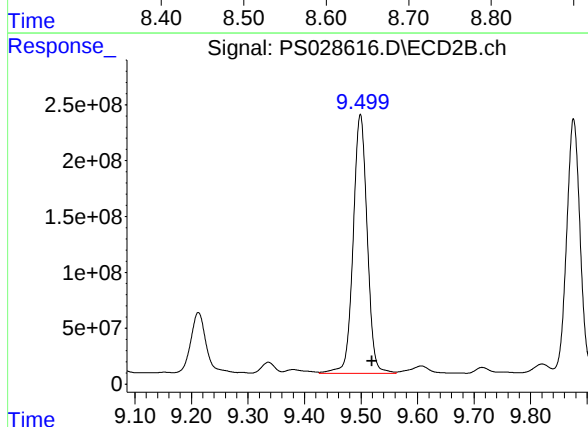
ECD_S

ClientSampleId :

PT-HERB-SOILRE

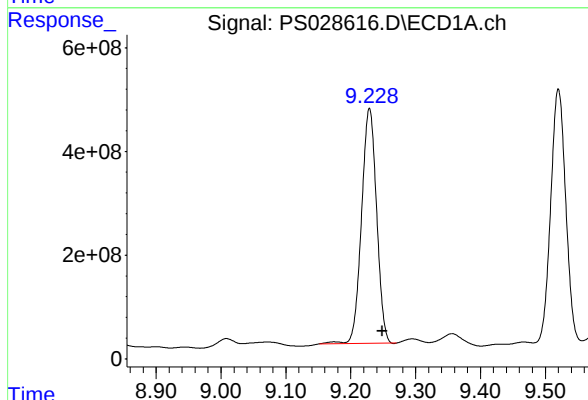
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



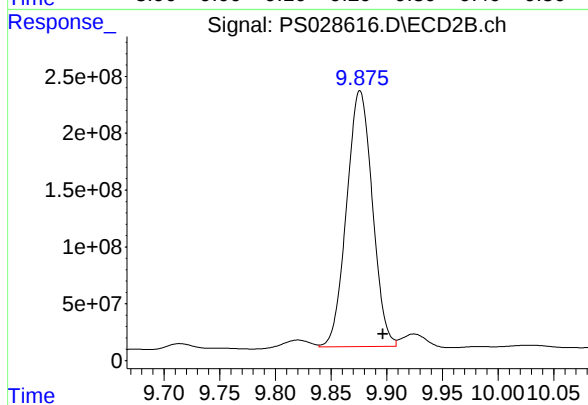
#10 Pentachlorophenol

R.T.: 9.499 min
Delta R.T.: -0.021 min
Response: 3998472942
Conc: 199.47 ng/ml



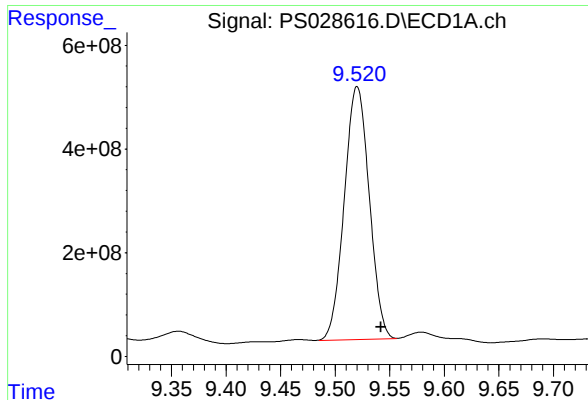
#11 2,4,5-TP (SILVEX)

R.T.: 9.229 min
Delta R.T.: -0.020 min
Response: 7321044361
Conc: 421.46 ng/ml



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

R.T.: 9.875 min
Delta R.T.: -0.021 min
Response: 3629227120
Conc: 430.09 ng/ml m



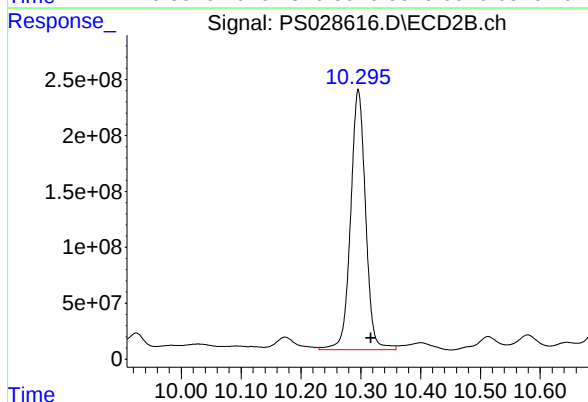
#12 2,4,5-T

R.T.: 9.520 min
Delta R.T.: -0.022 min
Response: 7778684646
Conc: 437.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-SOILRE

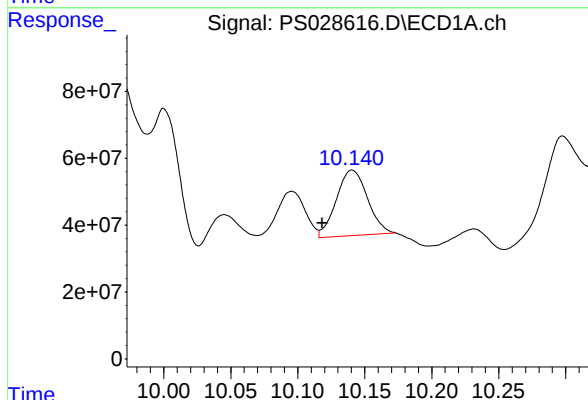
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



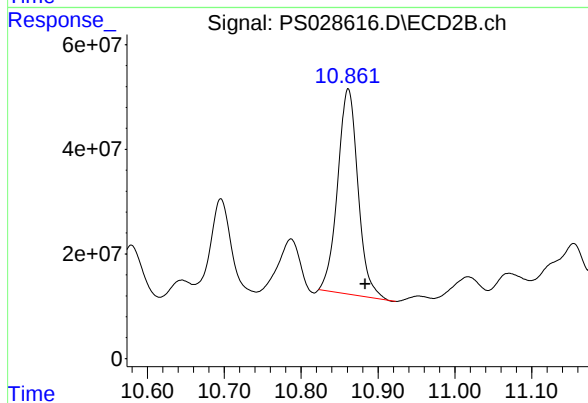
#12 2,4,5-T

R.T.: 10.296 min
Delta R.T.: -0.021 min
Response: 4045432494
Conc: 482.61 ng/ml



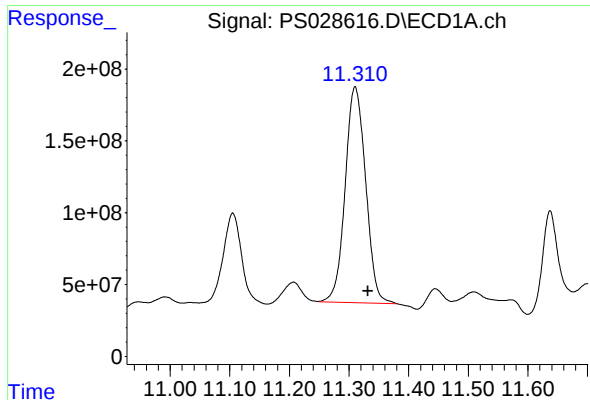
#13 2,4-DB

R.T.: 10.140 min
Delta R.T.: 0.022 min
Response: 317129155
Conc: 116.35 ng/ml m



#13 2,4-DB

R.T.: 10.861 min
Delta R.T.: -0.023 min
Response: 715075317
Conc: 682.50 ng/ml



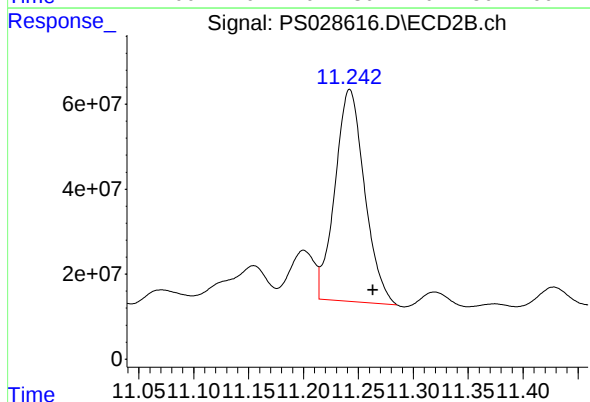
#14 DINOSEB

R.T.: 11.310 min
Delta R.T.: -0.022 min
Response: 3591909339
Conc: 251.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-SOILRE

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



#14 DINOSEB

R.T.: 11.242 min
Delta R.T.: -0.022 min
Response: 933263195
Conc: 168.81 ng/ml



CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495
Instrument ID: ECD_S **Calibration Date(s):** 11/13/2024 11/13/2024
Calibration Times: 11:44 13:23

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

LAB FILE ID:	RT 200 = <u>PS028488.D</u>	RT 500 = <u>PS028489.D</u>
RT 750 = <u>PS028490.D</u>	RT 1000 = <u>PS028491.D</u>	RT 1500 = <u>PS028492.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	9.54	9.54	9.54	9.54	9.54	9.54	9.44	9.64
2,4,5-TP(Silvex)	9.25	9.25	9.25	9.25	9.25	9.25	9.15	9.35
2,4-D	8.37	8.37	8.37	8.37	8.37	8.37	8.27	8.47
2,4-DB	10.12	10.12	10.12	10.12	10.12	10.12	10.02	10.22
2,4-DCAA	7.24	7.24	7.24	7.24	7.24	7.24	7.14	7.34
3,5-DICHLOROBENZOIC	6.41	6.41	6.41	6.41	6.41	6.41	6.31	6.51
4-Nitrophenol	7.04	7.04	7.04	7.04	7.04	7.04	6.94	7.14
Dalapon	2.64	2.64	2.64	2.64	2.64	2.64	2.54	2.74
DCPA	11.63	11.63	11.63	11.63	11.63	11.63	11.53	11.73
DICAMBA	7.43	7.43	7.43	7.43	7.43	7.43	7.33	7.53
DICHLORPROP	8.14	8.14	8.14	8.14	8.14	8.14	8.04	8.24
Dinoseb	11.33	11.33	11.33	11.33	11.33	11.33	11.23	11.43
MCPA	7.76	7.76	7.76	7.77	7.77	7.76	7.66	7.86
MCPP	7.61	7.61	7.61	7.61	7.62	7.61	7.51	7.71
Pentachlorophenol	8.67	8.67	8.67	8.67	8.67	8.67	8.57	8.77
PICLORAM	11.14	11.14	11.14	11.14	11.14	11.14	11.04	11.24

RETENTION TIMES OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495
Instrument ID: ECD_S **Calibration Date(s):** 11/13/2024 11/13/2024
Calibration Times: 11:44 13:23

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

LAB FILE ID:	RT 200 = <u>PS028488.D</u>	RT 500 = <u>PS028489.D</u>
RT 750 = <u>PS028490.D</u>	RT 1000 = <u>PS028491.D</u>	RT 1500 = <u>PS028492.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	10.32	10.32	10.32	10.32	10.32	10.32	10.22	10.42
2,4,5-TP(Silvex)	9.90	9.90	9.90	9.90	9.90	9.90	9.80	10.00
2,4-D	8.99	8.99	8.99	8.99	8.99	8.99	8.89	9.09
2,4-DB	10.88	10.88	10.88	10.88	10.88	10.88	10.78	10.98
2,4-DCAA	7.74	7.74	7.74	7.74	7.74	7.74	7.64	7.84
3,5-DICHLOROBENZOIC	6.70	6.69	6.70	6.69	6.70	6.69	6.59	6.79
4-Nitrophenol	7.27	7.27	7.27	7.27	7.27	7.27	7.17	7.37
Dalapon	2.70	2.70	2.70	2.70	2.70	2.70	2.60	2.80
DCPA	12.31	12.31	12.31	12.31	12.31	12.31	12.21	12.41
DICAMBA	7.94	7.94	7.94	7.94	7.94	7.94	7.84	8.04
DICHLORPROP	8.66	8.66	8.66	8.66	8.66	8.66	8.56	8.76
Dinoseb	11.26	11.26	11.26	11.26	11.26	11.26	11.16	11.36
MCPA	8.29	8.29	8.29	8.29	8.30	8.29	8.19	8.39
MCPP	8.04	8.04	8.05	8.05	8.05	8.05	7.95	8.15
Pentachlorophenol	9.52	9.52	9.52	9.52	9.52	9.52	9.42	9.62
PICLORAM	12.36	12.36	12.36	12.36	12.36	12.36	12.26	12.46

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495
Instrument ID: ECD_S **Calibration Date(s):** 11/13/2024 11/13/2024
Calibration Times: 11:44 13:23
GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028488.D</u>		CF 500 = <u>PS028489.D</u>			
CF 750 = <u>PS028490.D</u>		CF 1000 = <u>PS028491.D</u>		CF 1500 = <u>PS028492.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	18386800000	18633200000	18107000000	17245300000	16500400000	17774500000	5
2,4,5-TP(Silvex)	17984700000	18202900000	17704400000	16835500000	16126100000	17370700000	5
2,4-D	3426680000	3322800000	3216710000	3055910000	2962550000	3196930000	6
2,4-DB	2775070000	2796180000	2757470000	2665480000	2633900000	2725620000	3
2,4-DCAA	2772700000	2649760000	2564110000	2437330000	2355500000	2555880000	6
3,5-DICHLOROBENZOIC	3960280000	3872050000	3753000000	3591720000	3479420000	3731300000	5
4-Nitrophenol	1757650000	1736360000	1707240000	1650670000	1640320000	1698450000	3
Dalapon	3120120000	3395600000	3446340000	3403500000	3431780000	3359470000	4
DCPA	26972900000	27730700000	26929900000	25526800000	24406500000	26313400000	5
DICAMBA	10941000000	11294600000	11176100000	10780800000	10517300000	10942000000	3
DICHLORPROP	3167160000	3061980000	2956180000	2829410000	2742080000	2951360000	6
Dinoseb	14533900000	14783600000	14512900000	13884800000	13573700000	14257800000	4
MCPA	9483790000	10343700000	10486600000	10309100000	10400300000	10204700000	4
MCPD	5526200000	7096500000	7438810000	7432240000	7679580000	7034670000	12
Pentachlorophenol	44914200000	45659800000	44138100000	40921500000	33046500000	41736000000	12
PICLORAM	27386000000	29100400000	28970000000	27917200000	27425100000	28159700000	3

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495
Instrument ID: ECD_S **Calibration Date(s):** 11/13/2024 11/13/2024
Calibration Times: 11:44 13:23
GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028488.D</u>		CF 500 = <u>PS028489.D</u>			
CF 750 = <u>PS028490.D</u>		CF 1000 = <u>PS028491.D</u>		CF 1500 = <u>PS028492.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	8025570000	8639330000	8638960000	8380390000	8227530000	8382360000	3
2,4,5-TP(Silvex)	8015310000	8674200000	8711600000	8465070000	8325300000	8438300000	3
2,4-D	1549260000	1596990000	1592240000	1549180000	1540080000	1565550000	2
2,4-DB	1001820000	1055890000	1068810000	1049150000	1063010000	1047740000	3
2,4-DCAA	1280520000	1318140000	1312940000	1279750000	1270170000	1292300000	2
3,5-DICHLOROBENZOIC	1889920000	1974960000	1969830000	1919810000	1907490000	1932400000	2
4-Nitrophenol	881256000	881049000	869521000	843765000	841382000	863395000	2
Dalapon	2313790000	2430440000	2468450000	2435700000	2451210000	2419920000	3
DCPA	9066790000	10009100000	10041000000	9759640000	9615670000	9698430000	4
DICAMBA	5125500000	5785090000	5914080000	5838640000	5857070000	5704080000	6
DICHLORPROP	1425030000	1481610000	1488150000	1453050000	1455000000	1460570000	2
Dinoseb	5291460000	5640670000	5677020000	5515940000	5517420000	5528500000	3
MCPA	6152190000	6279400000	6266200000	6127550000	6141900000	6193450000	1
MCPD	3879220000	4334830000	4442220000	4388030000	4460400000	4300940000	6
Pentachlorophenol	19245900000	20983900000	20830900000	19989700000	19176300000	20045300000	4
PICLORAM	9816960000	11492400000	11788000000	11698100000	11799800000	11319000000	8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
Data File : PS028488.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Nov 2024 11:44
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 141 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 13 13:12:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:07:24 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	7.241	7.742	554.5E6	256.1E6	208.302	196.419
Target Compounds						
1) T Dalapon	2.637	2.697	567.9E6	421.1E6	171.007	175.154
2) T 3,5-DICHL...	6.411	6.695	736.6E6	351.5E6	190.744	180.742
3) T 4-Nitroph...	7.039	7.268	319.9E6	160.4E6	184.509	182.826
5) T DICAMBA	7.429	7.942	2056.9E6	963.6E6	184.688	171.818
6) T MCPP	7.609	8.041	103.9E6	72929401	15.536	17.287
7) T MCPA	7.758	8.285	176.4E6	114.4E6	17.457	18.360
8) T DICHLORPROP	8.139	8.659	595.4E6	267.9E6	194.471	182.880
9) T 2,4-D	8.369	8.990	644.2E6	291.3E6	193.920	184.401
10) T Pentachlo...	8.669	9.519	8533.7E6	3656.7E6	190.043	179.660
11) T 2,4,5-TP ...	9.249	9.896	3417.1E6	1522.9E6	190.219	179.863
12) T 2,4,5-T	9.543	10.317	3493.5E6	1524.9E6	190.115	180.786
13) T 2,4-DB	10.119	10.884	527.3E6	190.3E6	189.920	182.643
14) T DINOSEB	11.332	11.264	2732.4E6	994.8E6	187.019	179.683
15) T Picloram	11.139	12.360	5203.3E6	1865.2E6	182.666	169.067
16) T DCPA	11.626	12.309	5178.8E6	1740.8E6	190.319	179.363

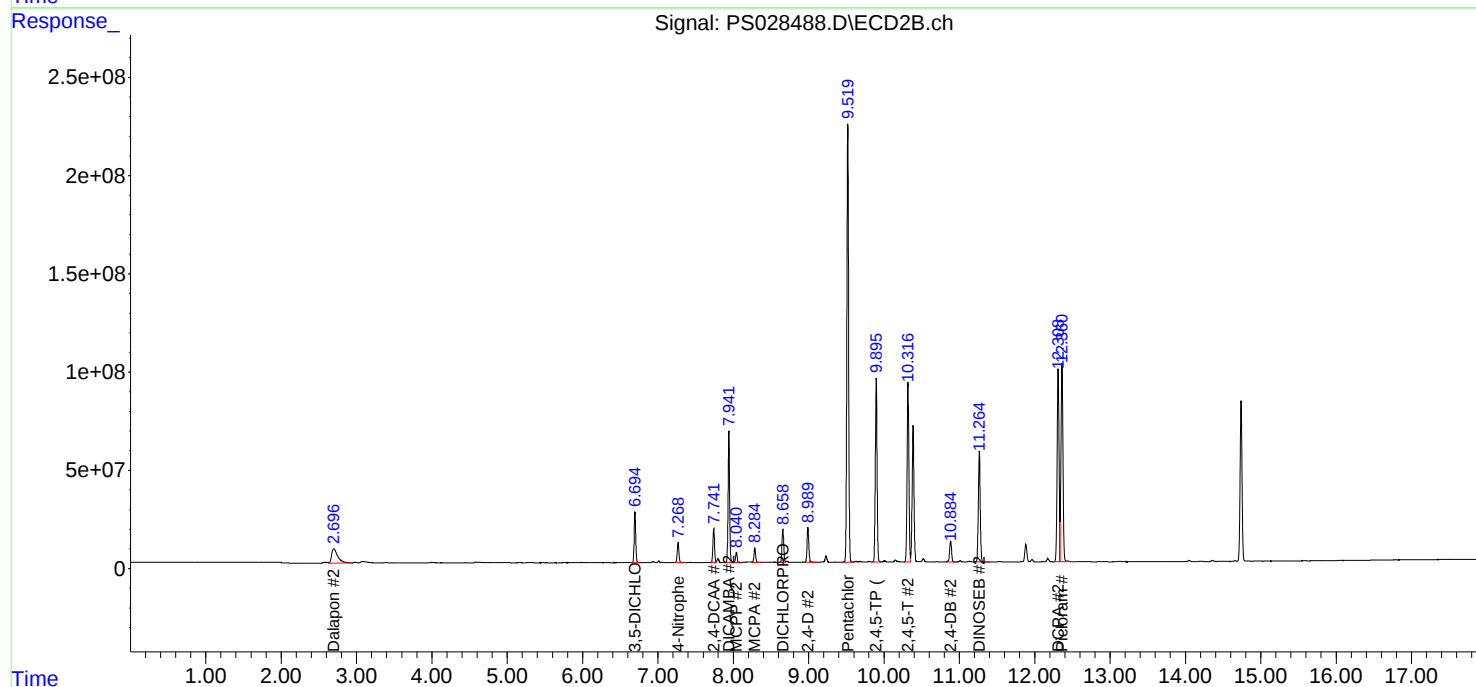
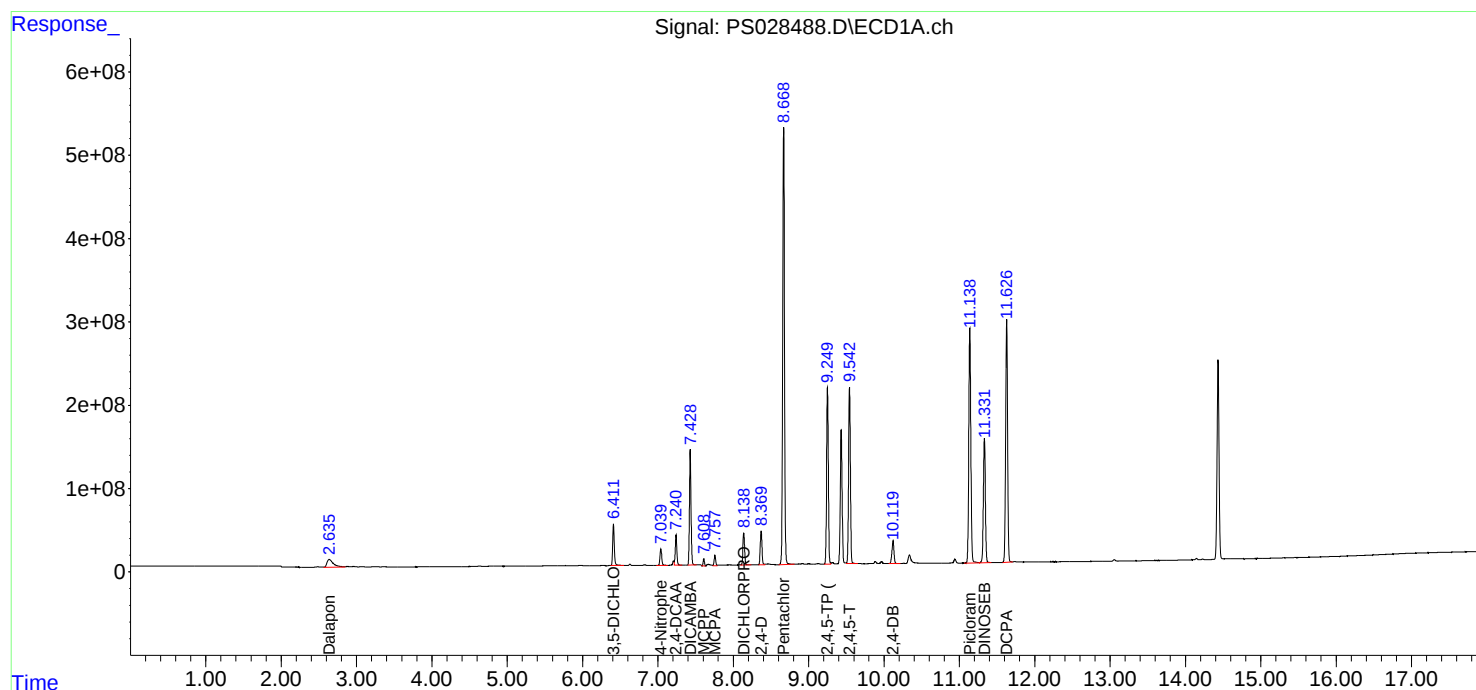
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

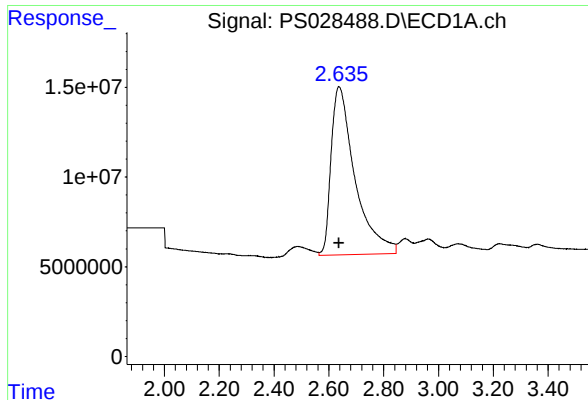
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
Data File : PS028488.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Nov 2024 11:44
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 141 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 13 13:12:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:07:24 2024
Response via : Initial Calibration
Integrator: ChemStation

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

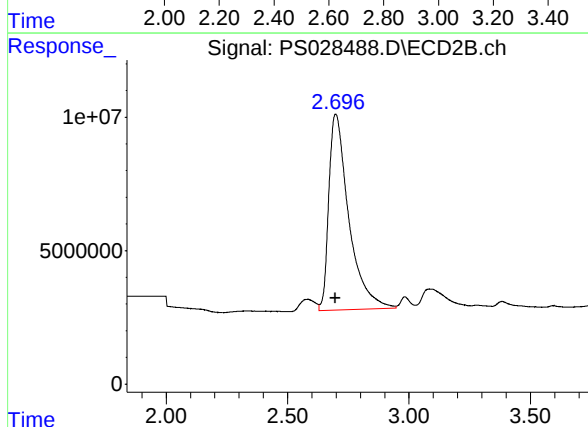




#1 Dalapon

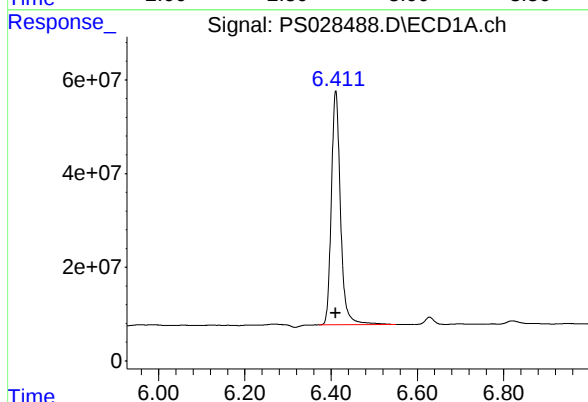
R.T.: 2.637 min
Delta R.T.: 0.000 min
Response: 567861334
Conc: 171.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



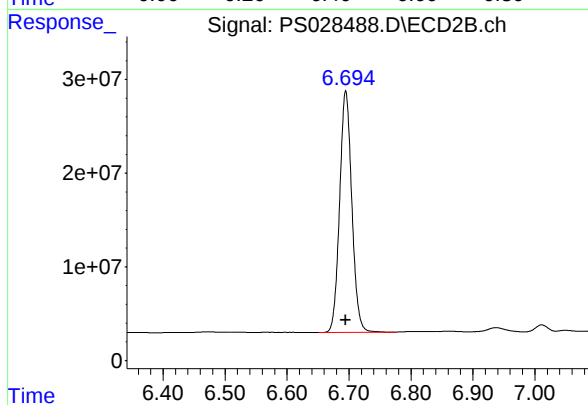
#1 Dalapon

R.T.: 2.697 min
Delta R.T.: 0.000 min
Response: 421110132
Conc: 175.15 ng/ml



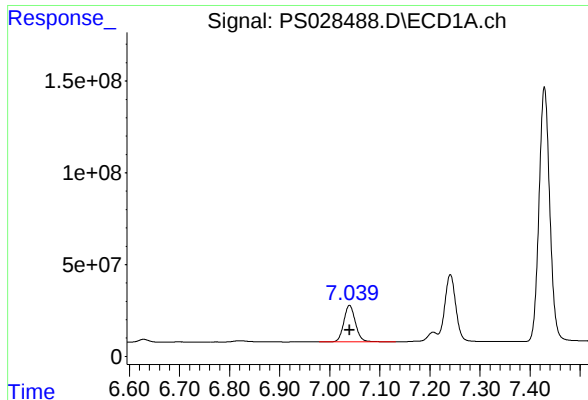
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.411 min
Delta R.T.: 0.000 min
Response: 736612478
Conc: 190.74 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

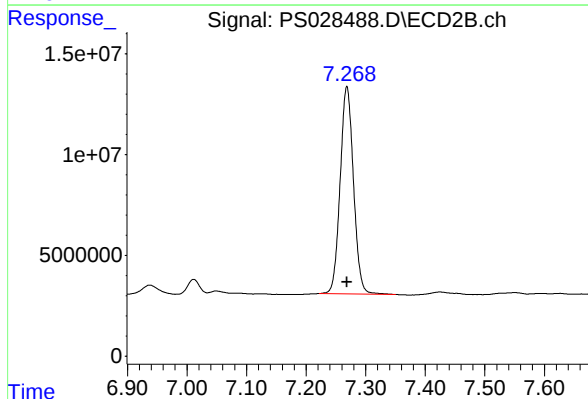
R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 351525433
Conc: 180.74 ng/ml



#3 4-Nitrophenol

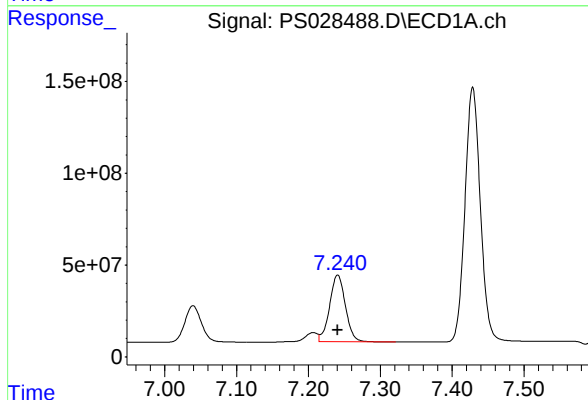
R.T.: 7.039 min
Delta R.T.: 0.000 min
Response: 319892592
Conc: 184.51 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



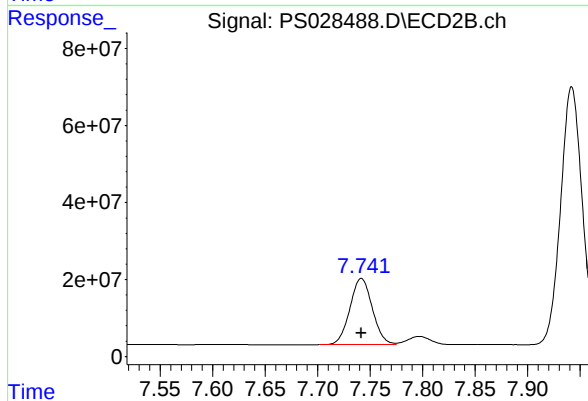
#3 4-Nitrophenol

R.T.: 7.268 min
Delta R.T.: 0.000 min
Response: 160388544
Conc: 182.83 ng/ml



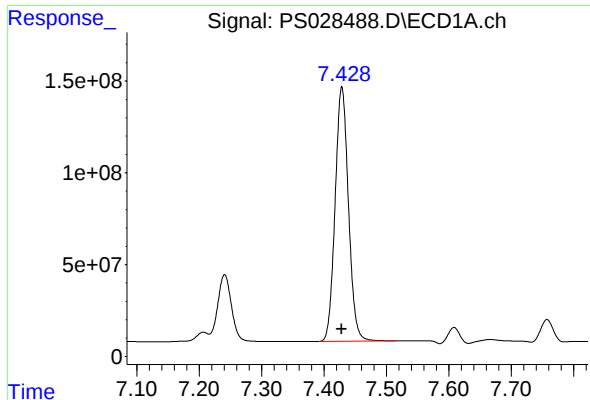
#4 2,4-DCAA

R.T.: 7.241 min
Delta R.T.: 0.000 min
Response: 554539984
Conc: 208.30 ng/ml



#4 2,4-DCAA

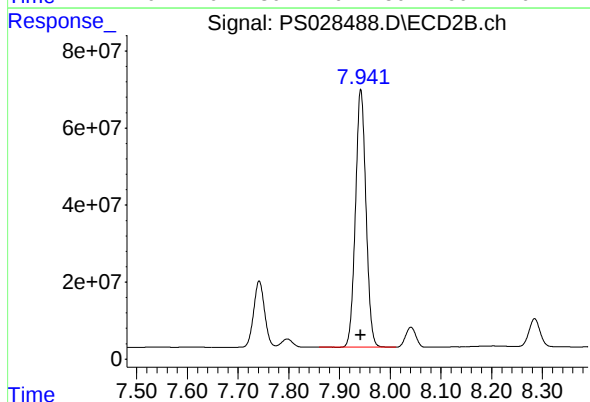
R.T.: 7.742 min
Delta R.T.: 0.000 min
Response: 256104308
Conc: 196.42 ng/ml



#5 DICAMBA

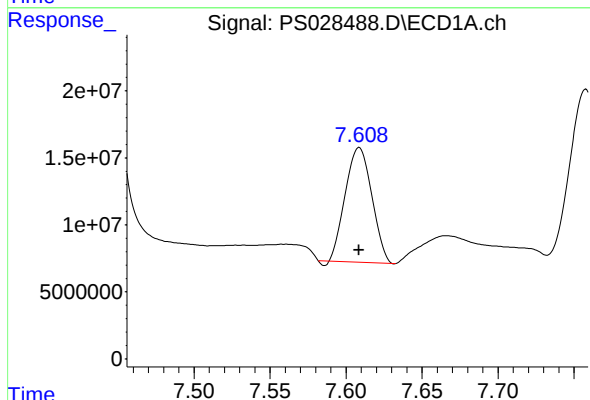
R.T.: 7.429 min
Delta R.T.: 0.000 min
Response: 2056913498
Conc: 184.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



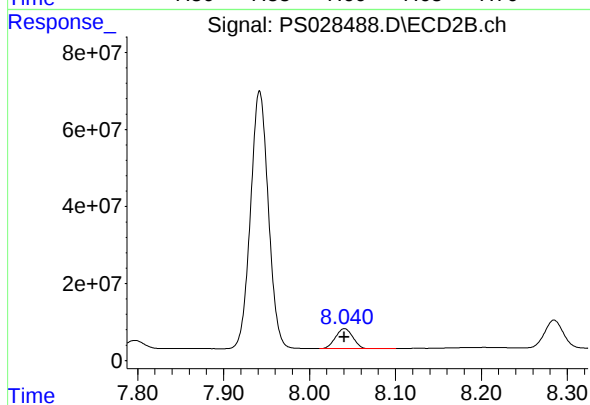
#5 DICAMBA

R.T.: 7.942 min
Delta R.T.: 0.000 min
Response: 963594549
Conc: 171.82 ng/ml



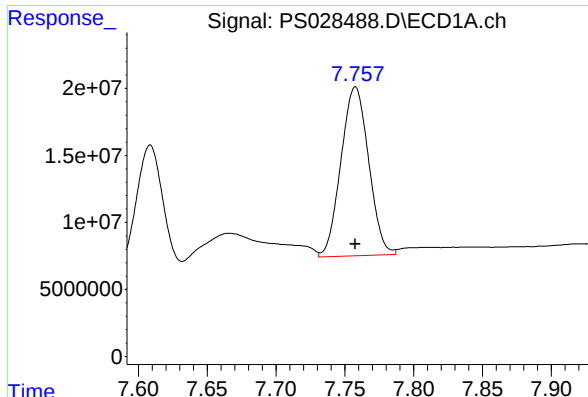
#6 MCPP

R.T.: 7.609 min
Delta R.T.: 0.000 min
Response: 103892524
Conc: 15.54 ug/ml



#6 MCPP

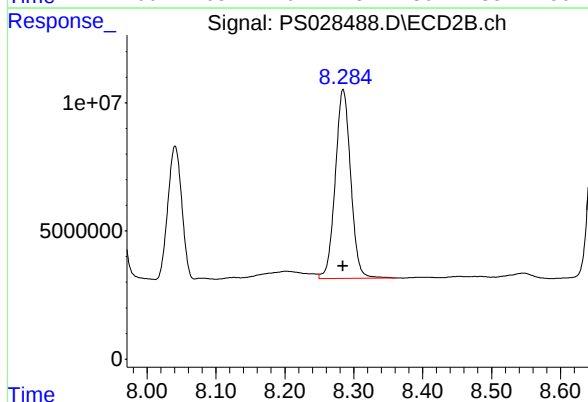
R.T.: 8.041 min
Delta R.T.: 0.000 min
Response: 72929401
Conc: 17.29 ug/ml



#7 MCPA

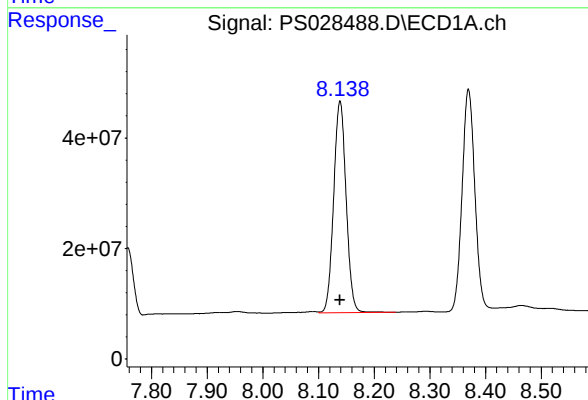
R.T.: 7.758 min
Delta R.T.: 0.000 min
Response: 176398577
Conc: 17.46 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



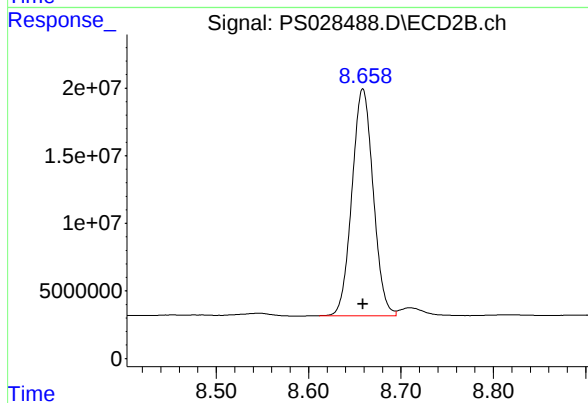
#7 MCPA

R.T.: 8.285 min
Delta R.T.: 0.000 min
Response: 114430774
Conc: 18.36 ug/ml



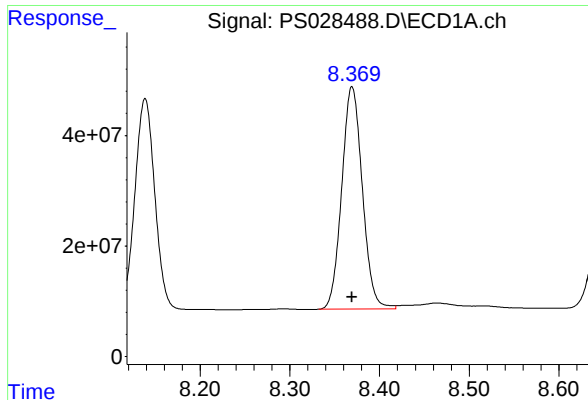
#8 DICHLORPROP

R.T.: 8.139 min
Delta R.T.: 0.000 min
Response: 595425313
Conc: 194.47 ng/ml



#8 DICHLORPROP

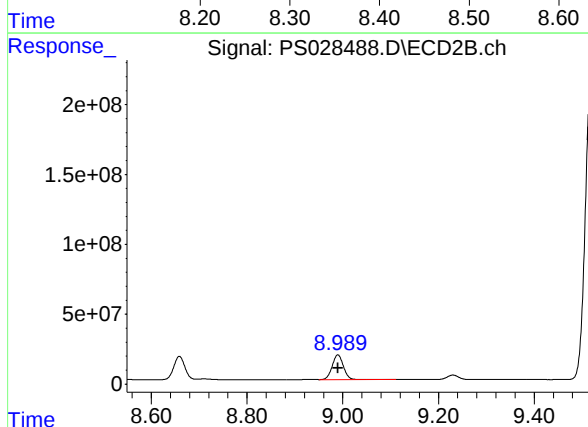
R.T.: 8.659 min
Delta R.T.: 0.000 min
Response: 267905843
Conc: 182.88 ng/ml



#9 2,4-D

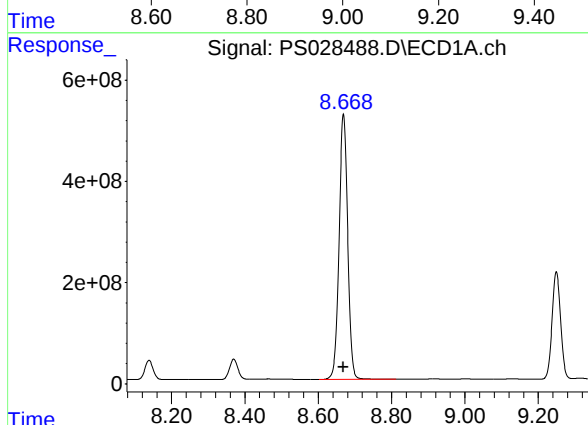
R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 644215453
Conc: 193.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



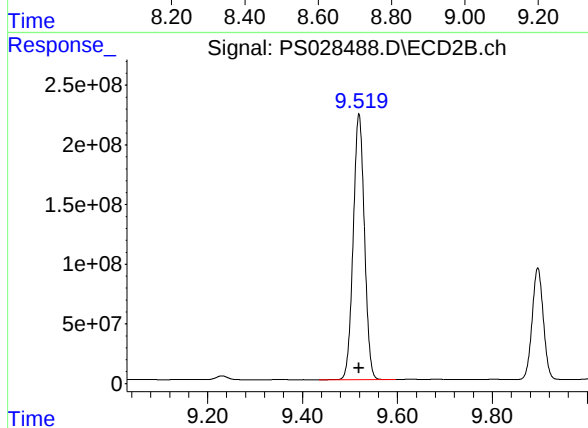
#9 2,4-D

R.T.: 8.990 min
Delta R.T.: 0.000 min
Response: 291260165
Conc: 184.40 ng/ml



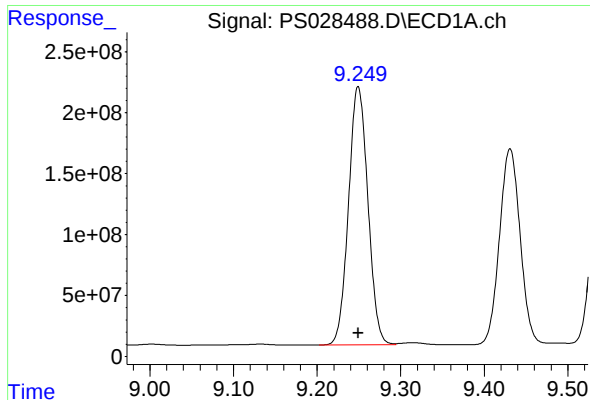
#10 Pentachlorophenol

R.T.: 8.669 min
Delta R.T.: 0.000 min
Response: 8533706652
Conc: 190.04 ng/ml



#10 Pentachlorophenol

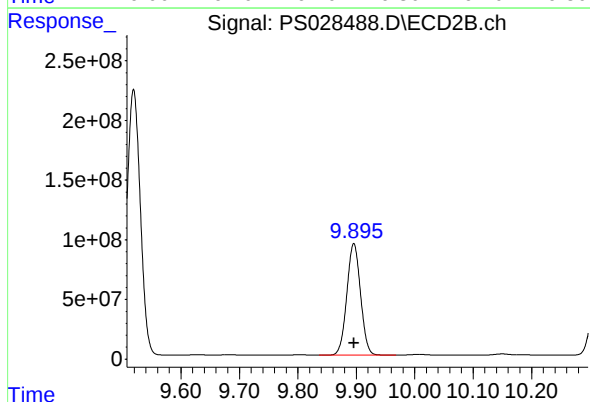
R.T.: 9.519 min
Delta R.T.: 0.000 min
Response: 3656726517
Conc: 179.66 ng/ml



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

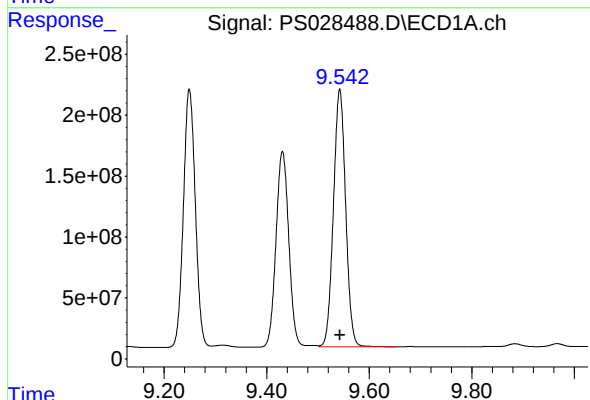
R.T.: 9.249 min
Delta R.T.: 0.000 min
Response: 3417095270
Conc: 190.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



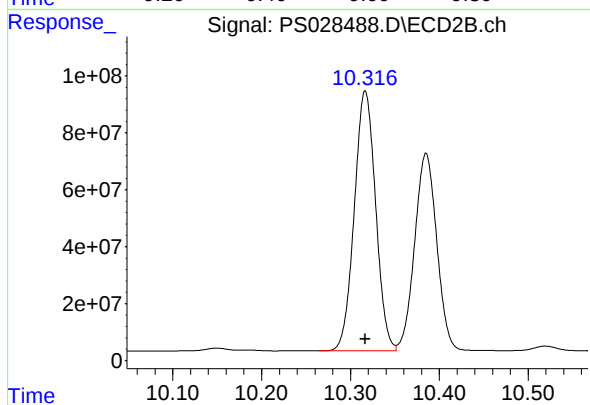
#11 2,4,5-TP (SILVEX)

R.T.: 9.896 min
Delta R.T.: 0.000 min
Response: 1522909428
Conc: 179.86 ng/ml



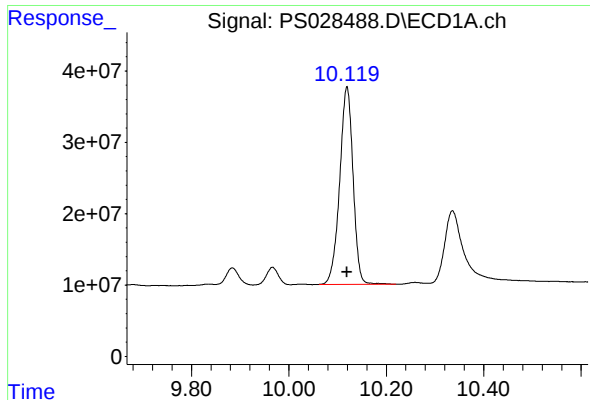
#12 2,4,5-T

R.T.: 9.543 min
Delta R.T.: 0.000 min
Response: 3493493995
Conc: 190.12 ng/ml



#12 2,4,5-T

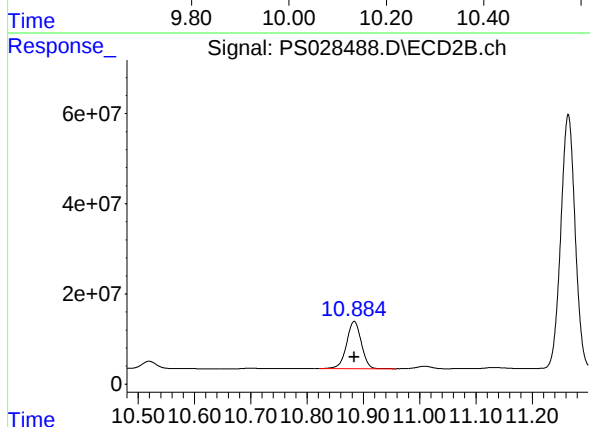
R.T.: 10.317 min
Delta R.T.: 0.000 min
Response: 1524858202
Conc: 180.79 ng/ml



#13 2,4-DB

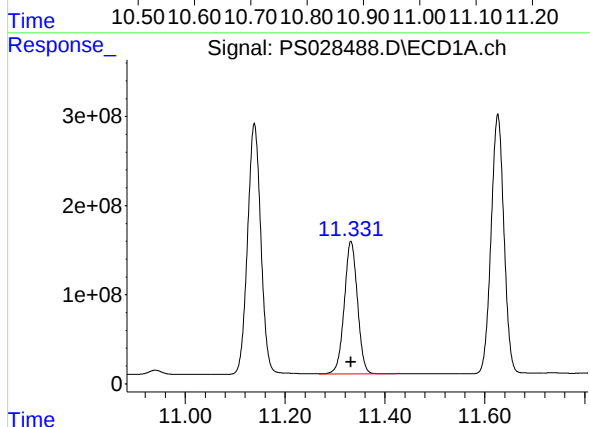
R.T.: 10.119 min
Delta R.T.: 0.000 min
Response: 527262921
Conc: 189.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



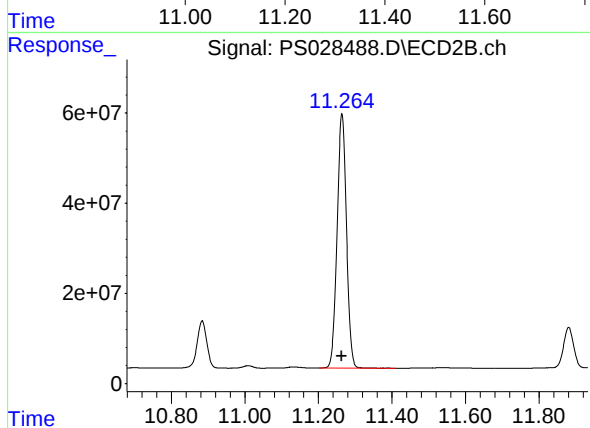
#13 2,4-DB

R.T.: 10.884 min
Delta R.T.: 0.000 min
Response: 190345912
Conc: 182.64 ng/ml



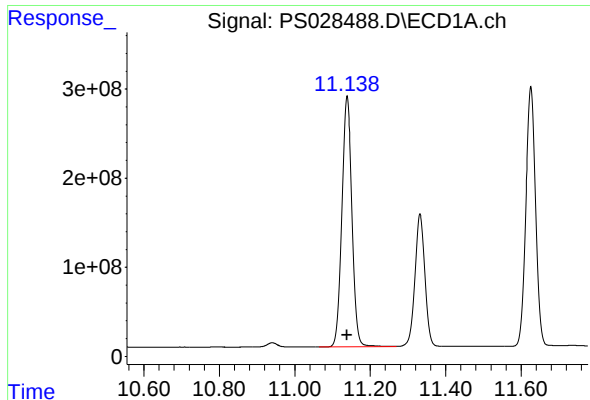
#14 DINOSEB

R.T.: 11.332 min
Delta R.T.: 0.000 min
Response: 2732369675
Conc: 187.02 ng/ml



#14 DINOSEB

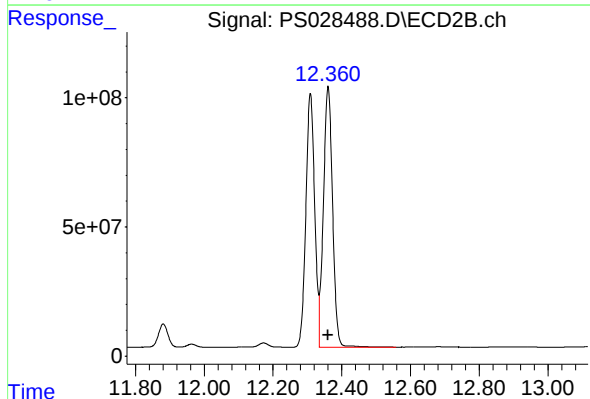
R.T.: 11.264 min
Delta R.T.: 0.000 min
Response: 994793772
Conc: 179.68 ng/ml



#15 Picloram

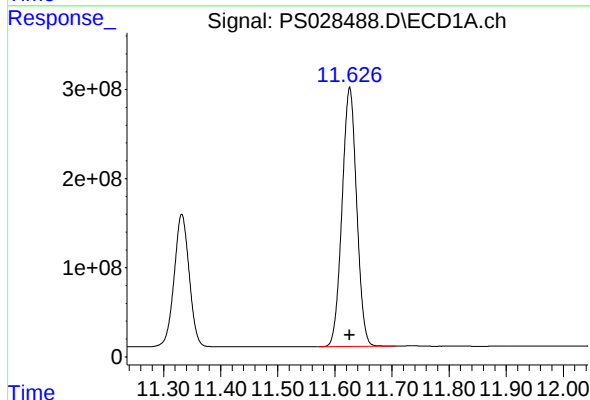
R.T.: 11.139 min
Delta R.T.: 0.000 min
Response: 5203335806
Conc: 182.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



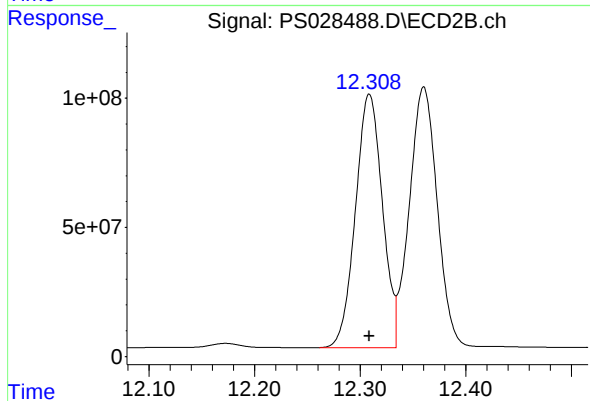
#15 Picloram

R.T.: 12.360 min
Delta R.T.: 0.000 min
Response: 1865222761
Conc: 169.07 ng/ml



#16 DCPA

R.T.: 11.626 min
Delta R.T.: 0.000 min
Response: 5178804408
Conc: 190.32 ng/ml



#16 DCPA

R.T.: 12.309 min
Delta R.T.: 0.000 min
Response: 1740822736
Conc: 179.36 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
 Data File : PS028489.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 13 Nov 2024 12:09
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 142 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 13 13:11:02 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:07:24 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	7.240	7.742	1324.9E6	659.1E6	508.214	500.989
Target Compounds							
1) T	Dalapon	2.638	2.698	1545.0E6	1105.9E6	451.626	451.470
2) T	3,5-DICHL...	6.410	6.694	1800.5E6	918.4E6	472.260	465.605
3) T	4-Nitroph...	7.039	7.268	790.0E6	400.9E6	458.848	457.996
5) T	DICAMBA	7.428	7.942	5308.5E6	2719.0E6	472.478	464.818
6) T	MCPD	7.610	8.043	333.5E6	203.7E6	45.893	46.425
7) T	MCPA	7.760	8.288	481.0E6	292.0E6	46.181	46.549
8) T	DICHLORPROP	8.138	8.659	1439.1E6	696.4E6	478.263	468.964
9) T	2,4-D	8.369	8.990	1561.7E6	750.6E6	477.625	470.699
10) T	Pentachlo...	8.669	9.519	21688.4E6	9967.4E6	483.050	476.738
11) T	2,4,5-TP ...	9.250	9.896	8646.4E6	4120.2E6	481.595	473.978
12) T	2,4,5-T	9.542	10.317	8850.8E6	4103.7E6	481.803	475.010
13) T	2,4-DB	10.118	10.884	1328.2E6	501.5E6	478.311	472.110
14) T	DINOSEB	11.333	11.264	6948.3E6	2651.1E6	474.343	468.490
15) T	Picloram	11.139	12.360	13822.7E6	5458.9E6	476.067	468.970
16) T	DCPA	11.626	12.309	13310.7E6	4804.4E6	487.033	479.237

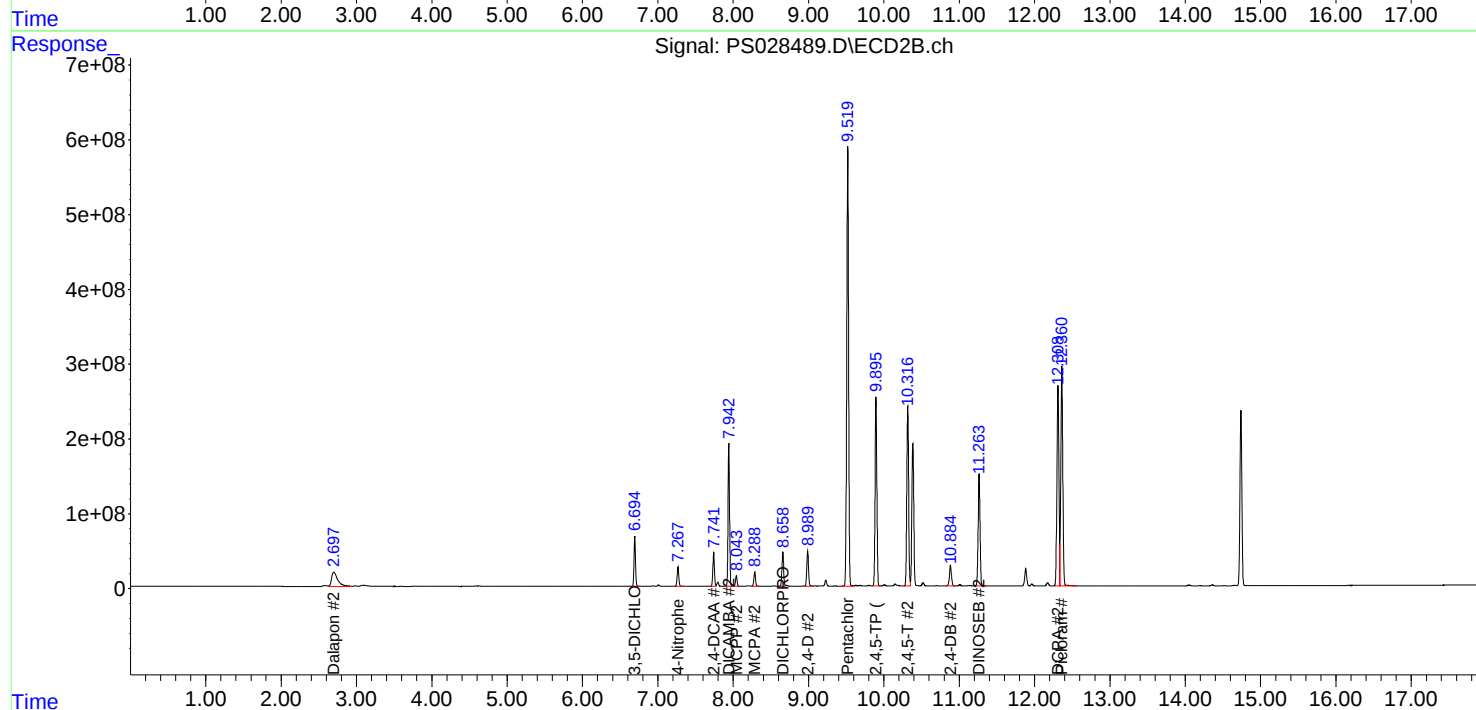
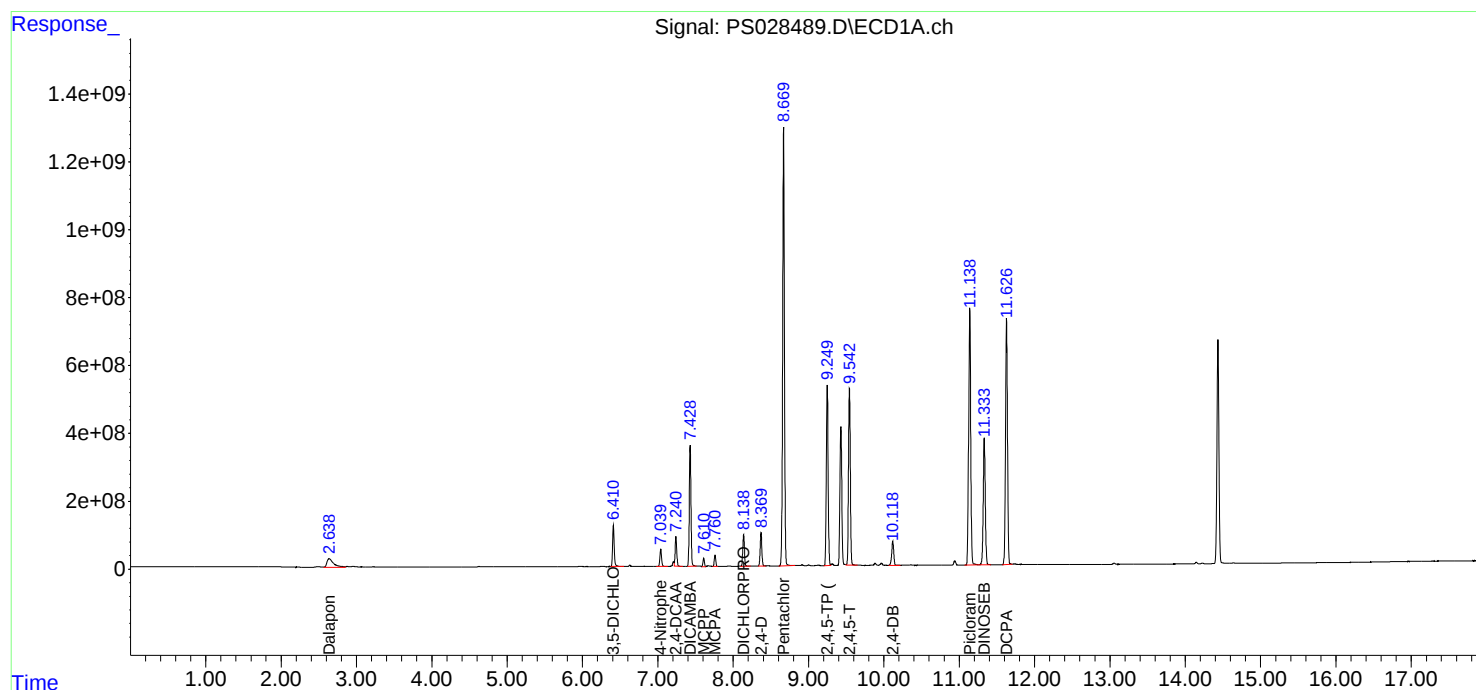
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

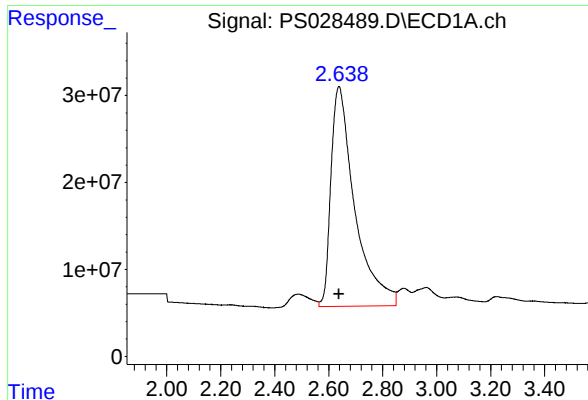
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
Data File : PS028489.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Nov 2024 12:09
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 142 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 13 13:11:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:07:24 2024
Response via : Initial Calibration
Integrator: ChemStation

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

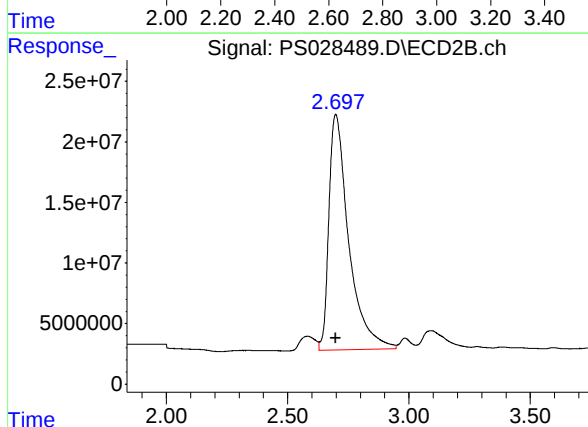




#1 Dalapon

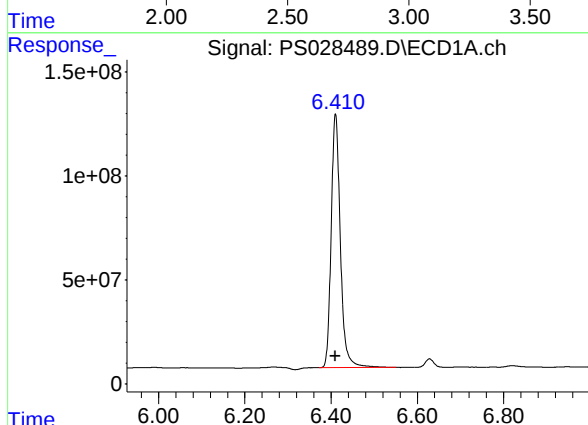
R.T.: 2.638 min
Delta R.T.: 0.000 min
Response: 1544997839
Conc: 451.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



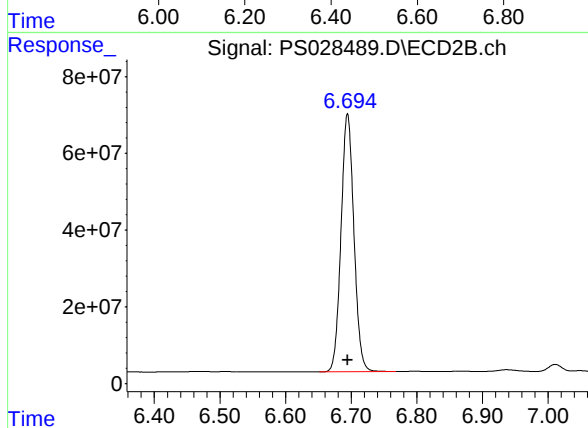
#1 Dalapon

R.T.: 2.698 min
Delta R.T.: 0.000 min
Response: 1105850837
Conc: 451.47 ng/ml



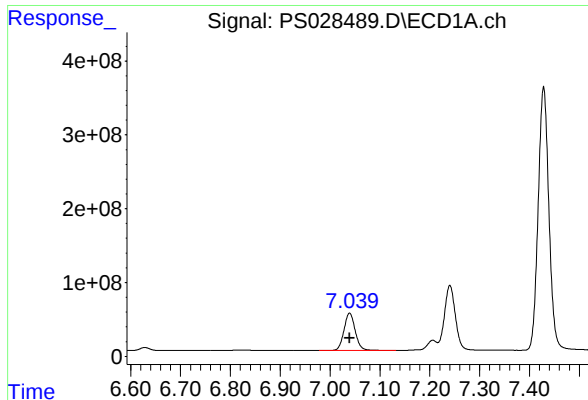
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.410 min
Delta R.T.: 0.000 min
Response: 1800504364
Conc: 472.26 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

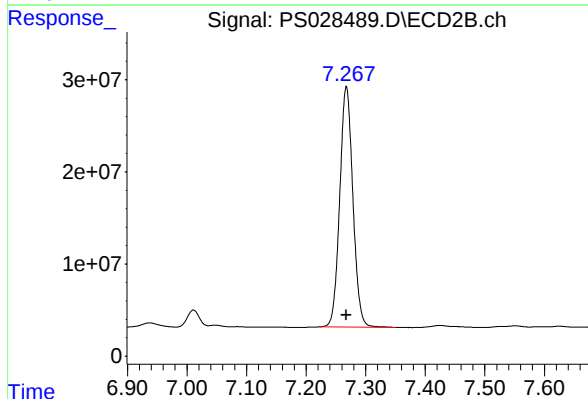
R.T.: 6.694 min
Delta R.T.: 0.000 min
Response: 918355763
Conc: 465.61 ng/ml



#3 4-Nitrophenol

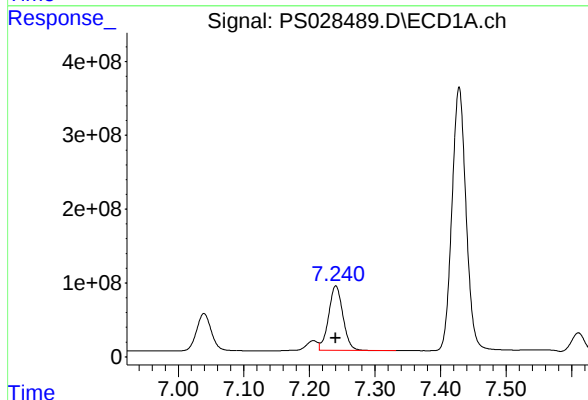
R.T.: 7.039 min
Delta R.T.: 0.000 min
Response: 790044454
Conc: 458.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



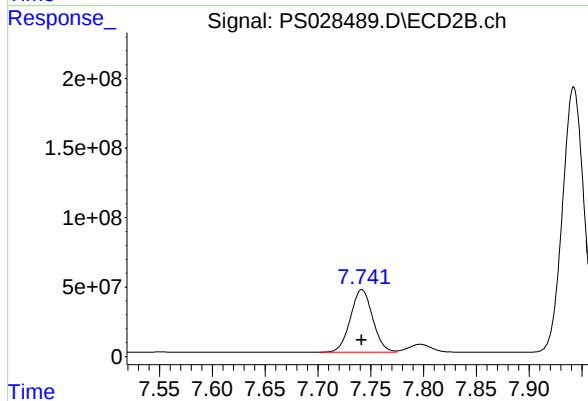
#3 4-Nitrophenol

R.T.: 7.268 min
Delta R.T.: 0.000 min
Response: 400877216
Conc: 458.00 ng/ml



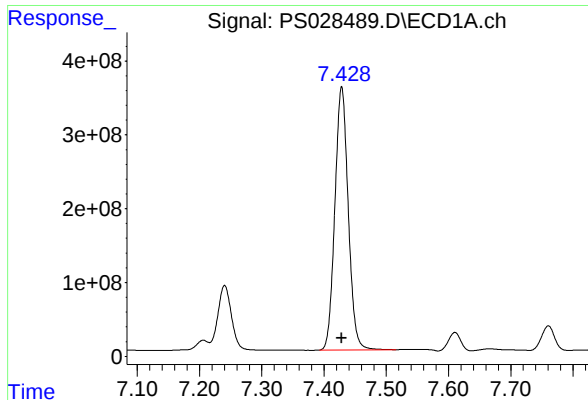
#4 2,4-DCAA

R.T.: 7.240 min
Delta R.T.: 0.000 min
Response: 1324880666
Conc: 508.21 ng/ml



#4 2,4-DCAA

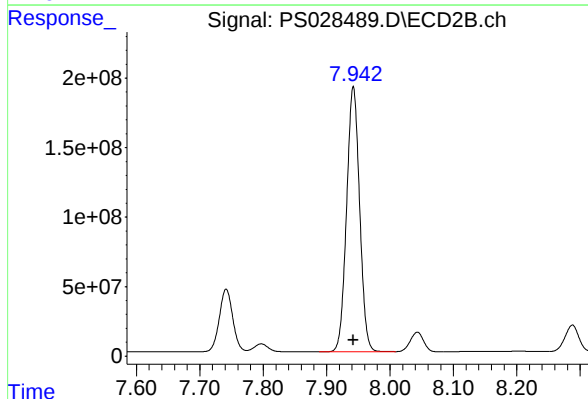
R.T.: 7.742 min
Delta R.T.: 0.000 min
Response: 659070008
Conc: 500.99 ng/ml



#5 DICAMBA

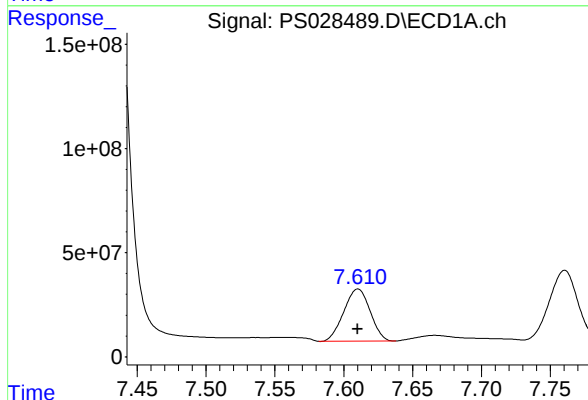
R.T.: 7.428 min
Delta R.T.: 0.000 min
Response: 5308455880
Conc: 472.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



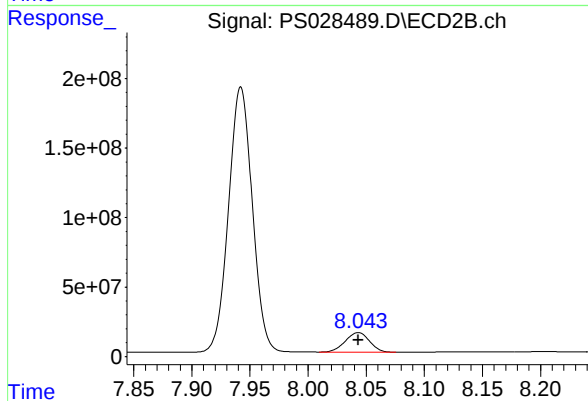
#5 DICAMBA

R.T.: 7.942 min
Delta R.T.: 0.000 min
Response: 2718990460
Conc: 464.82 ng/ml



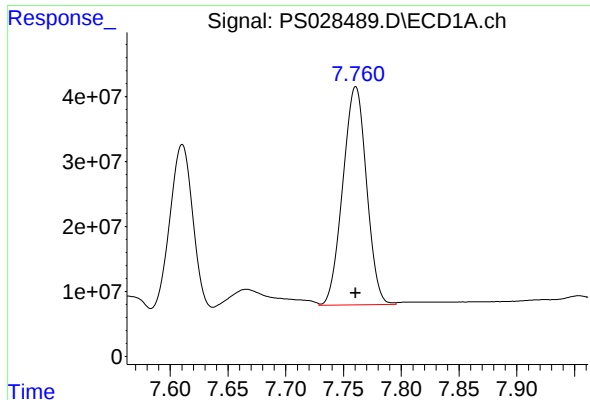
#6 MCPP

R.T.: 7.610 min
Delta R.T.: 0.000 min
Response: 333535412
Conc: 45.89 ug/ml



#6 MCPP

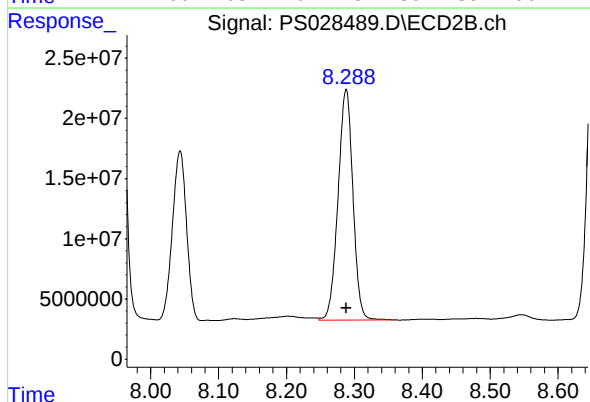
R.T.: 8.043 min
Delta R.T.: 0.000 min
Response: 203737192
Conc: 46.42 ug/ml



#7 MCPA

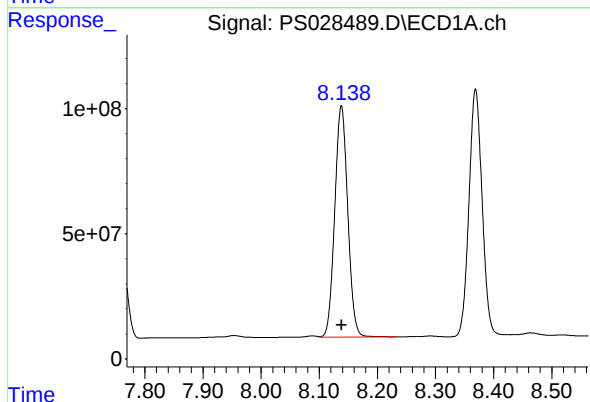
R.T.: 7.760 min
Delta R.T.: 0.000 min
Response: 480983878
Conc: 46.18 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



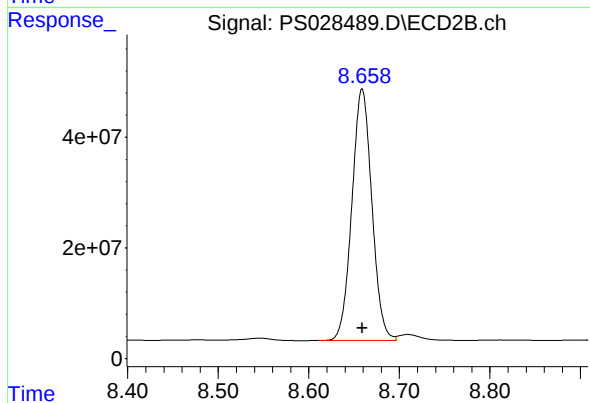
#7 MCPA

R.T.: 8.288 min
Delta R.T.: 0.000 min
Response: 291991927
Conc: 46.55 ug/ml



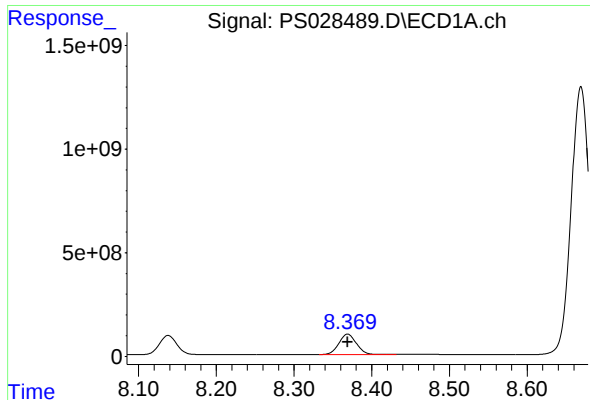
#8 DICHLORPROP

R.T.: 8.138 min
Delta R.T.: 0.000 min
Response: 1439132905
Conc: 478.26 ng/ml



#8 DICHLORPROP

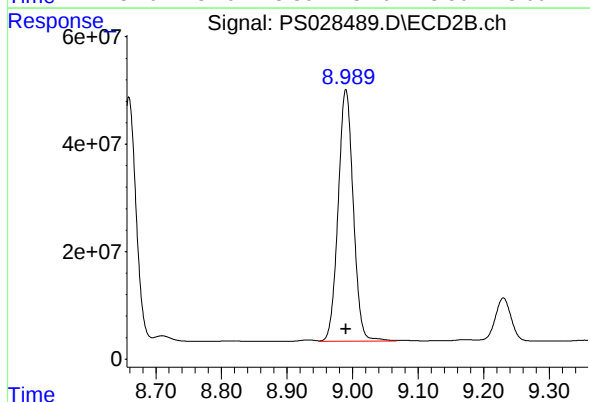
R.T.: 8.659 min
Delta R.T.: 0.000 min
Response: 696354893
Conc: 468.96 ng/ml



#9 2,4-D

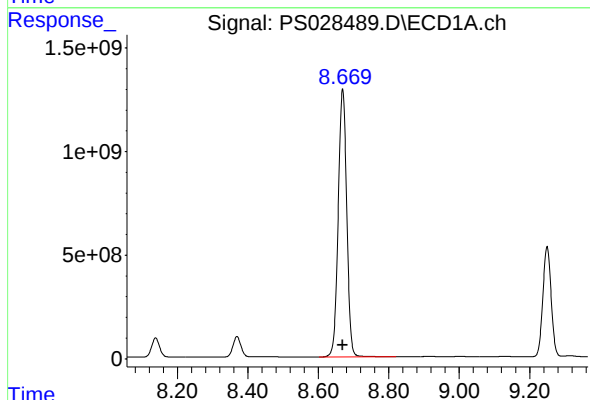
R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 1561714574
Conc: 477.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



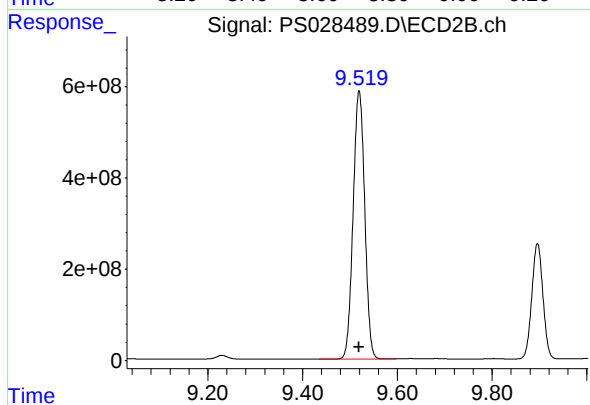
#9 2,4-D

R.T.: 8.990 min
Delta R.T.: 0.000 min
Response: 750585955
Conc: 470.70 ng/ml



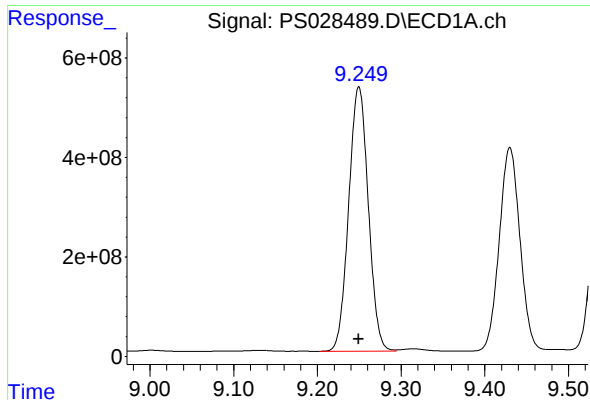
#10 Pentachlorophenol

R.T.: 8.669 min
Delta R.T.: 0.000 min
Response: 21688424526
Conc: 483.05 ng/ml



#10 Pentachlorophenol

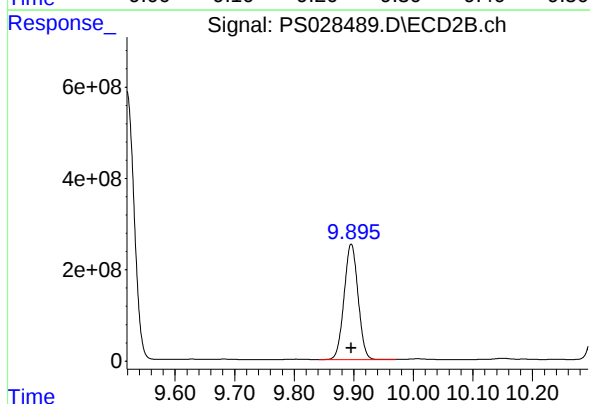
R.T.: 9.519 min
Delta R.T.: 0.000 min
Response: 9967357691
Conc: 476.74 ng/ml



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

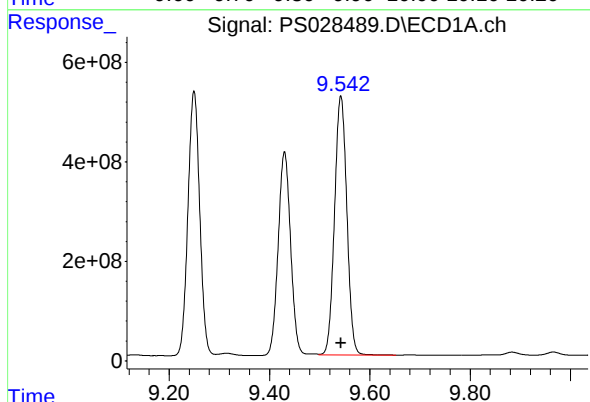
R.T.: 9.250 min
Delta R.T.: 0.000 min
Response: 8646388673
Conc: 481.60 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



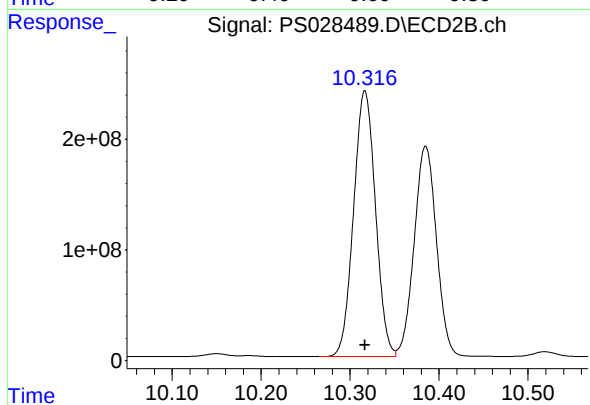
#11 2,4,5-TP (SILVEX)

R.T.: 9.896 min
Delta R.T.: 0.000 min
Response: 4120246890
Conc: 473.98 ng/ml



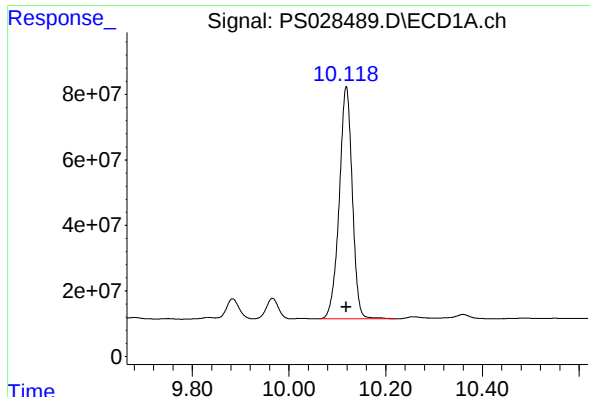
#12 2,4,5-T

R.T.: 9.542 min
Delta R.T.: 0.000 min
Response: 8850759756
Conc: 481.80 ng/ml



#12 2,4,5-T

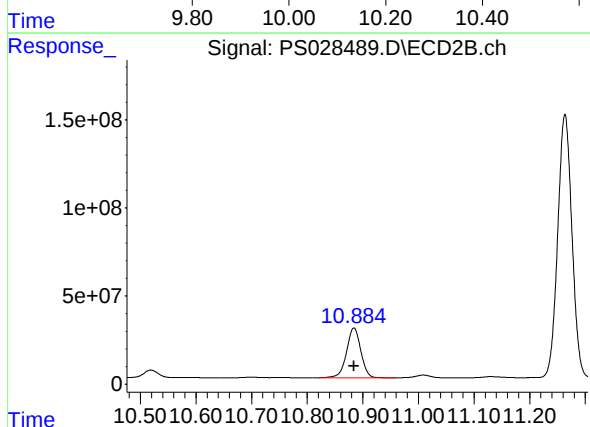
R.T.: 10.317 min
Delta R.T.: 0.000 min
Response: 4103683560
Conc: 475.01 ng/ml



#13 2,4-DB

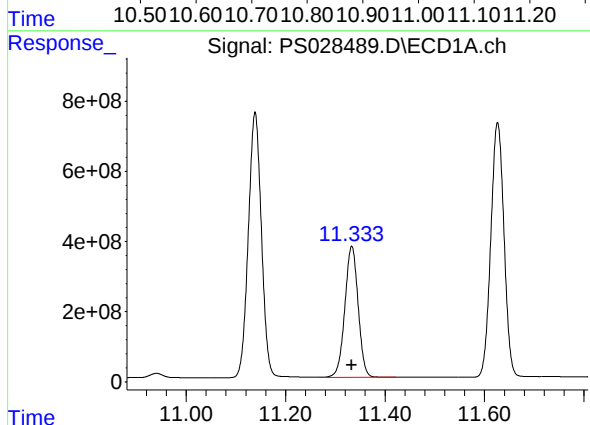
R.T.: 10.118 min
Delta R.T.: 0.000 min
Response: 1328187739
Conc: 478.31 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



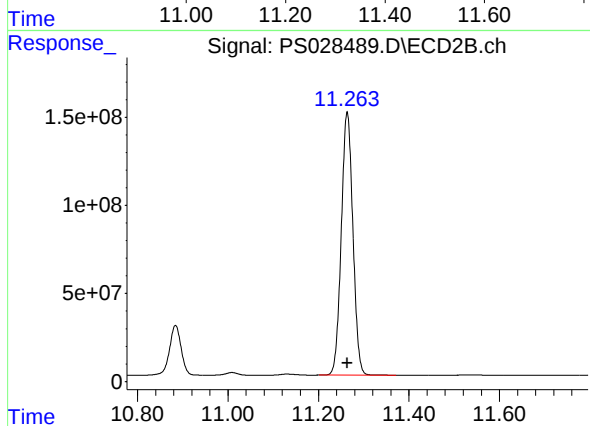
#13 2,4-DB

R.T.: 10.884 min
Delta R.T.: 0.000 min
Response: 501545650
Conc: 472.11 ng/ml



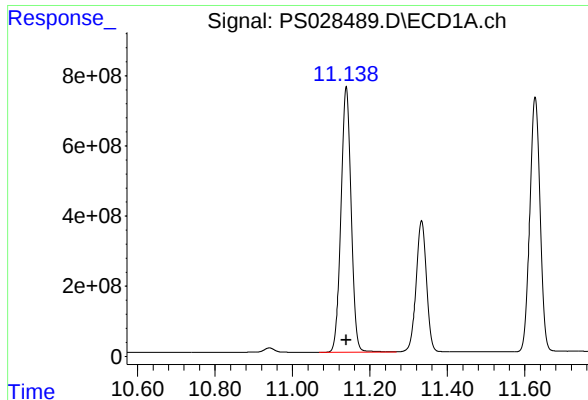
#14 DINOSEB

R.T.: 11.333 min
Delta R.T.: 0.000 min
Response: 694831007
Conc: 474.34 ng/ml



#14 DINOSEB

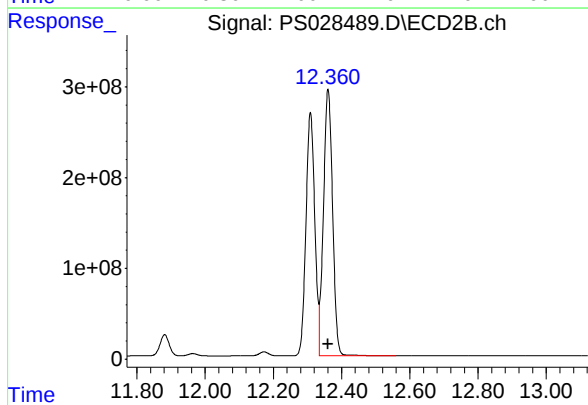
R.T.: 11.264 min
Delta R.T.: 0.000 min
Response: 2651114924
Conc: 468.49 ng/ml



#15 Picloram

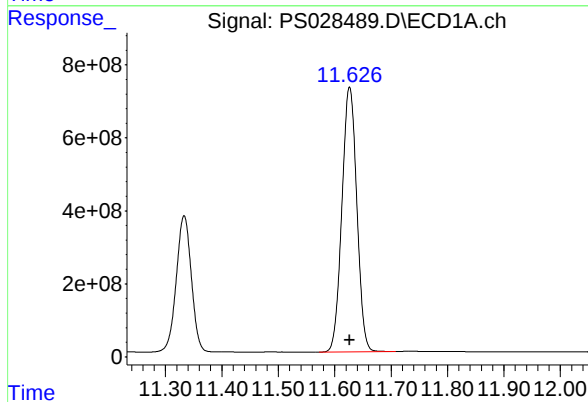
R.T.: 11.139 min
Delta R.T.: 0.000 min
Response: 13822701908
Conc: 476.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



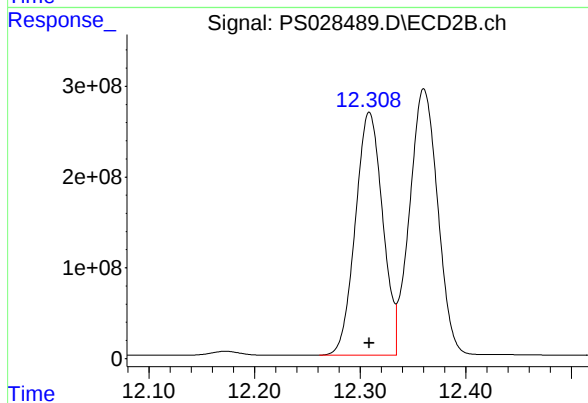
#15 Picloram

R.T.: 12.360 min
Delta R.T.: 0.000 min
Response: 5458902639
Conc: 468.97 ng/ml



#16 DCPA

R.T.: 11.626 min
Delta R.T.: 0.000 min
Response: 13310747272
Conc: 487.03 ng/ml



#16 DCPA

R.T.: 12.309 min
Delta R.T.: 0.000 min
Response: 4804355232
Conc: 479.24 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
 Data File : PS028490.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 13 Nov 2024 12:34
 Operator : AR\AJ
 Sample : HSTDICC750
 Misc :
 ALS Vial : 143 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 13 13:08:46 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:07:24 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	7.241	7.742	1923.1E6	984.7E6	750.000	750.000
Target Compounds						
1) T Dalapon	2.639	2.699	2352.1E6	1684.7E6	682.500	682.500
2) T 3,5-DICHL...	6.411	6.695	2617.7E6	1374.0E6	697.500	697.500
3) T 4-Nitroph...	7.039	7.268	1165.2E6	593.4E6	682.500	682.500
5) T DICAMBA	7.429	7.942	7879.2E6	4169.4E6	705.000	705.000
6) T MCPP	7.612	8.045	524.4E6	313.2E6	70.500	70.500
7) T MCPA	7.763	8.291	731.4E6	437.1E6	69.750	69.750
8) T DICHLORPROP	8.139	8.659	2084.1E6	1049.1E6	705.000	705.000
9) T 2,4-D	8.370	8.990	2267.8E6	1122.5E6	705.000	705.000
10) T Pentachlo...	8.670	9.519	31448.4E6	14842.0E6	712.500	712.500
11) T 2,4,5-TP ...	9.250	9.896	12614.4E6	6207.0E6	712.500	712.500
12) T 2,4,5-T	9.543	10.316	12901.3E6	6155.3E6	712.500	712.500
13) T 2,4-DB	10.119	10.884	1964.7E6	761.5E6	712.500	712.500
14) T DINOSEB	11.333	11.263	10231.6E6	4002.3E6	705.000	705.000
15) T Picloram	11.139	12.360	20641.1E6	8398.9E6	712.500	712.500
16) T DCPA	11.626	12.308	19389.5E6	7229.5E6	720.000	720.000

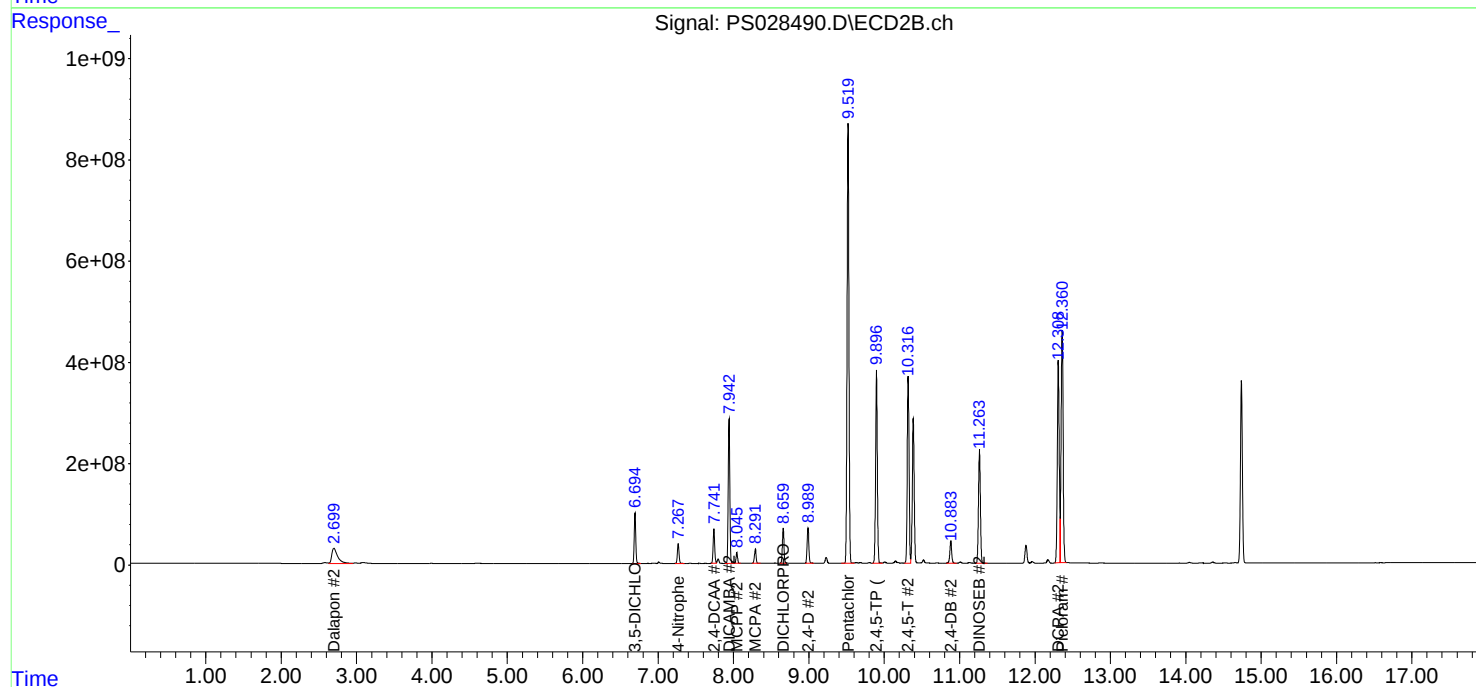
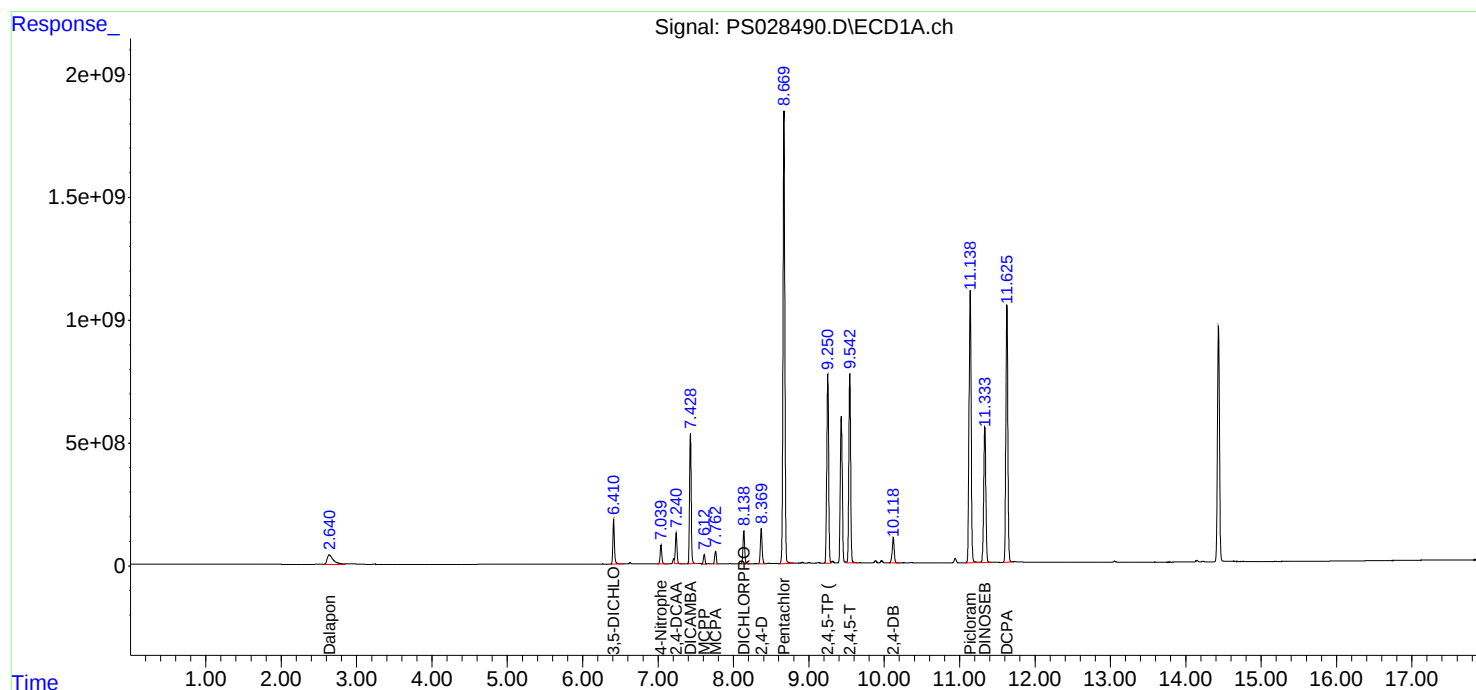
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

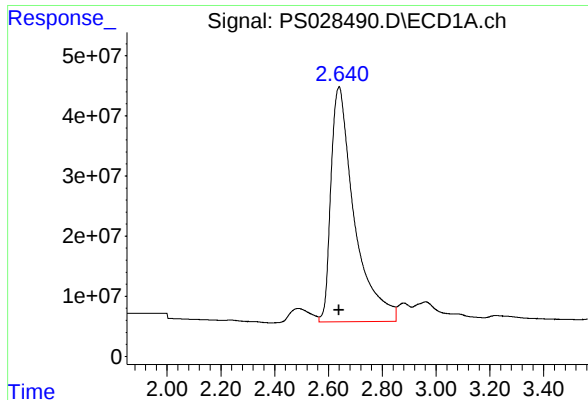
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
Data File : PS028490.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Nov 2024 12:34
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 143 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 13 13:08:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:07:24 2024
Response via : Initial Calibration
Integrator: ChemStation

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

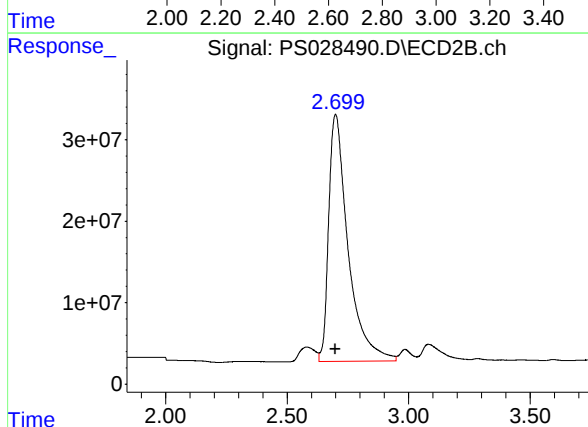




#1 Dalapon

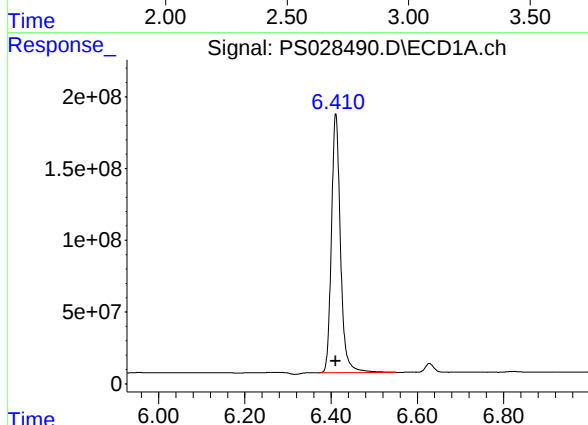
R.T.: 2.639 min
Delta R.T.: 0.000 min
Response: 2352126078
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



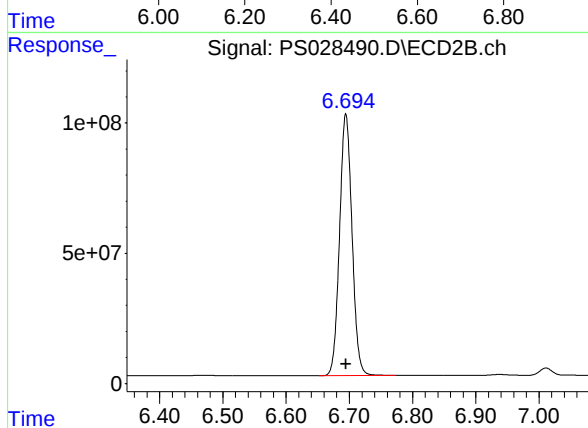
#1 Dalapon

R.T.: 2.699 min
Delta R.T.: 0.000 min
Response: 1684716805
Conc: 682.50 ng/ml



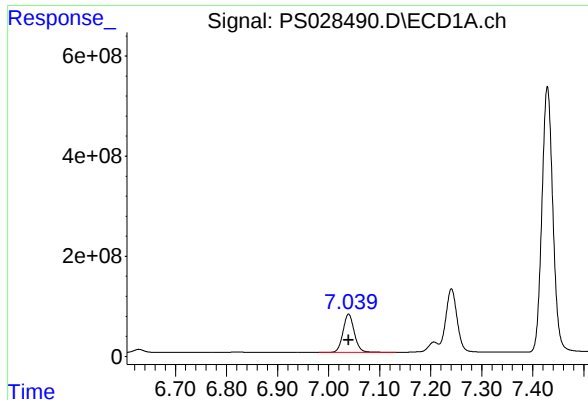
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.411 min
Delta R.T.: 0.000 min
Response: 2617719965
Conc: 697.50 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

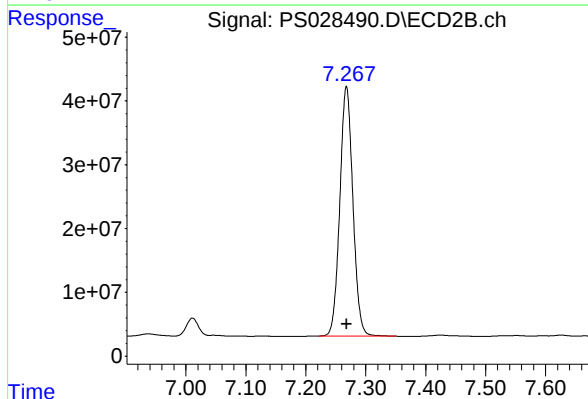
R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 1373953682
Conc: 697.50 ng/ml



#3 4-Nitrophenol

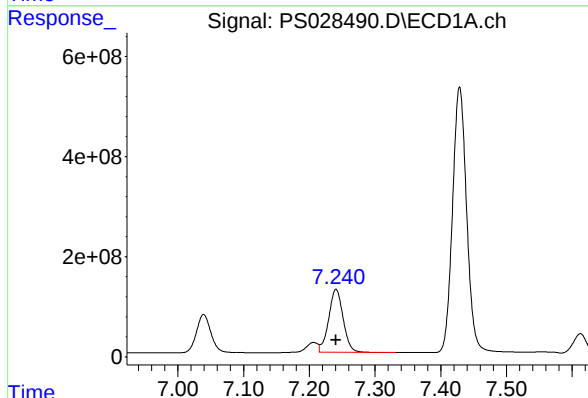
R.T.: 7.039 min
Delta R.T.: 0.000 min
Response: 1165189303
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



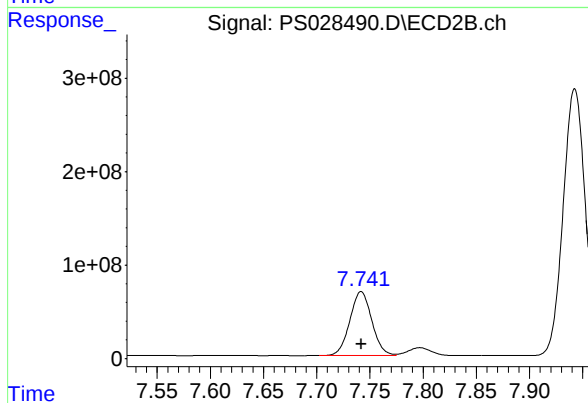
#3 4-Nitrophenol

R.T.: 7.268 min
Delta R.T.: 0.000 min
Response: 593448356
Conc: 682.50 ng/ml



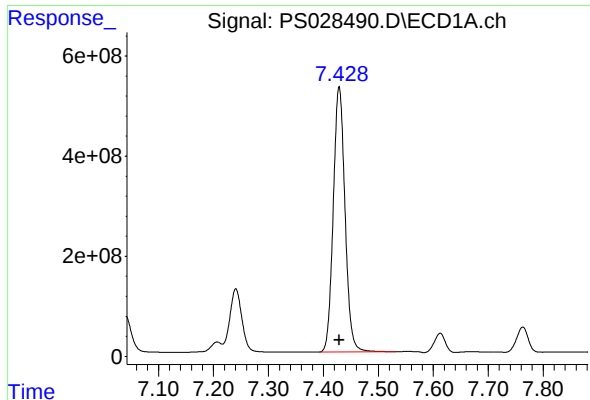
#4 2,4-DCAA

R.T.: 7.241 min
Delta R.T.: 0.000 min
Response: 1923082611
Conc: 750.00 ng/ml



#4 2,4-DCAA

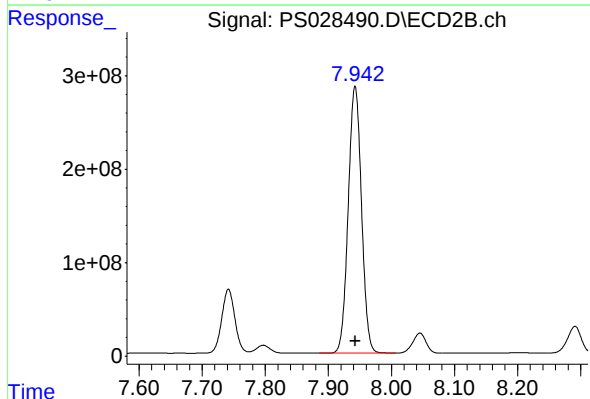
R.T.: 7.742 min
Delta R.T.: 0.000 min
Response: 984703363
Conc: 750.00 ng/ml



#5 DICAMBA

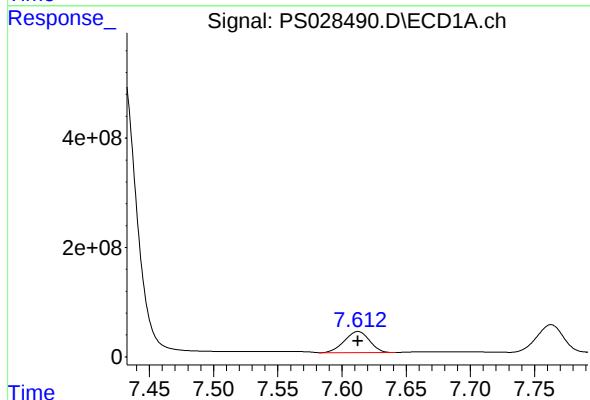
R.T.: 7.429 min
Delta R.T.: 0.000 min
Response: 7879153148
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



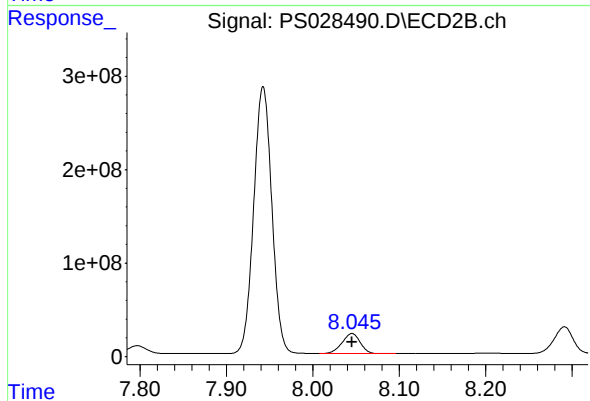
#5 DICAMBA

R.T.: 7.942 min
Delta R.T.: 0.000 min
Response: 4169426644
Conc: 705.00 ng/ml



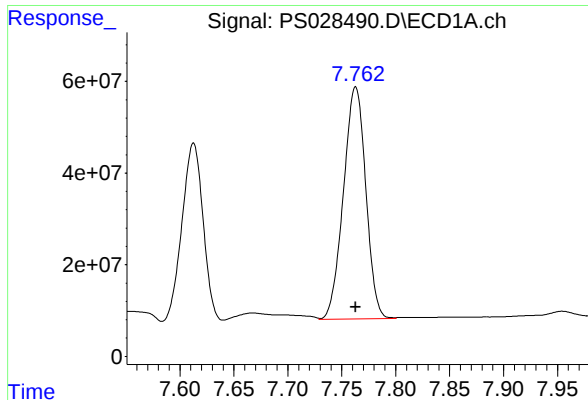
#6 MCPP

R.T.: 7.612 min
Delta R.T.: 0.000 min
Response: 524436071
Conc: 70.50 ug/ml



#6 MCPP

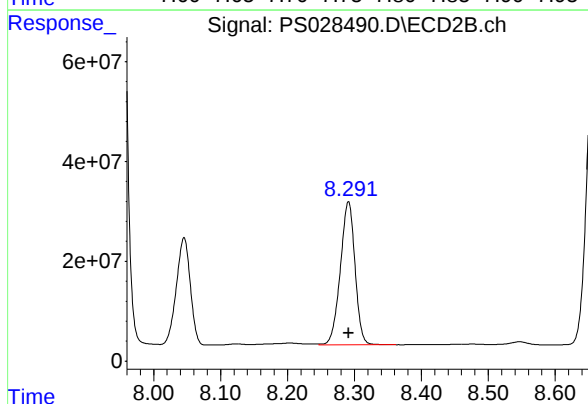
R.T.: 8.045 min
Delta R.T.: 0.000 min
Response: 313176365
Conc: 70.50 ug/ml



#7 MCPA

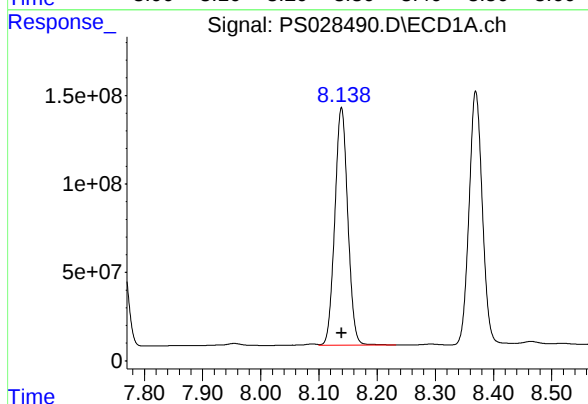
R.T.: 7.763 min
Delta R.T.: 0.000 min
Response: 731436988
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



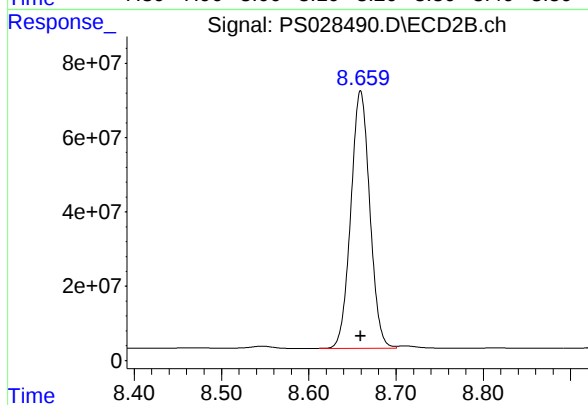
#7 MCPA

R.T.: 8.291 min
Delta R.T.: 0.000 min
Response: 437067181
Conc: 69.75 ug/ml



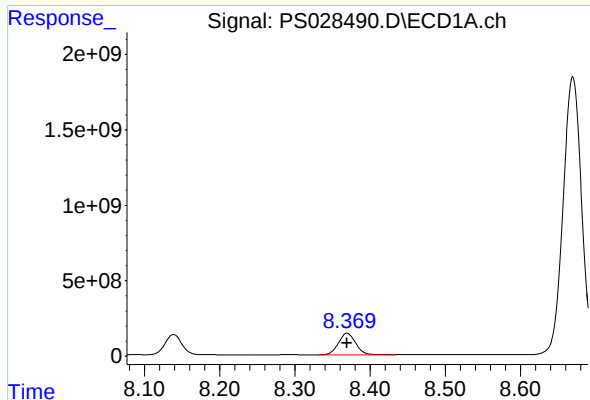
#8 DICHLORPROP

R.T.: 8.139 min
Delta R.T.: 0.000 min
Response: 2084104103
Conc: 705.00 ng/ml



#8 DICHLORPROP

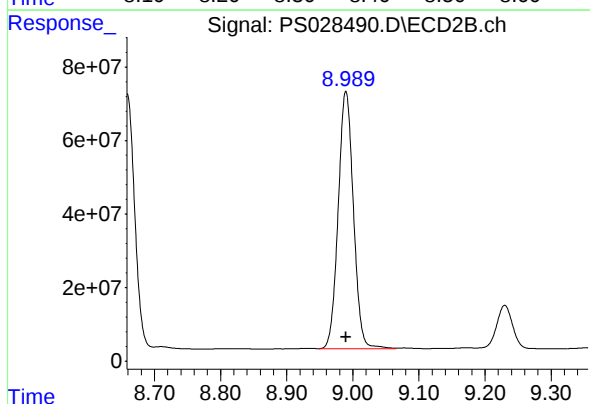
R.T.: 8.659 min
Delta R.T.: 0.000 min
Response: 1049148224
Conc: 705.00 ng/ml



#9 2,4-D

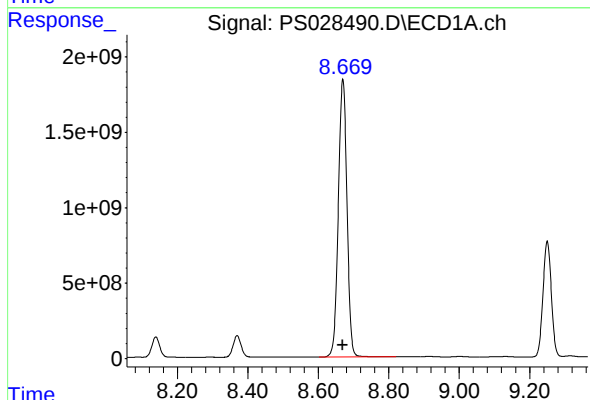
R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 2267779940
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



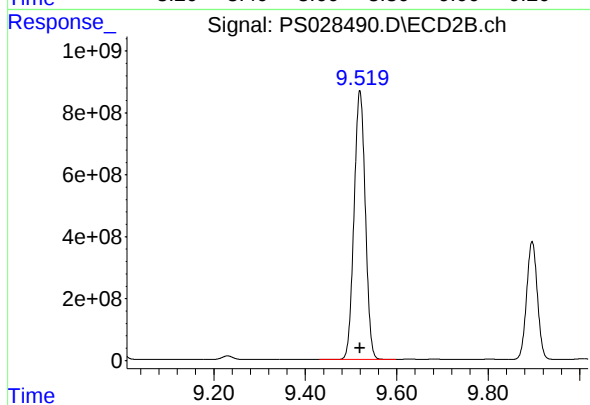
#9 2,4-D

R.T.: 8.990 min
Delta R.T.: 0.000 min
Response: 1122532695
Conc: 705.00 ng/ml



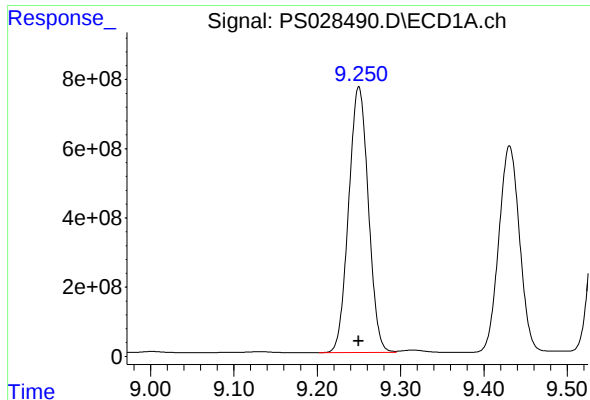
#10 Pentachlorophenol

R.T.: 8.670 min
Delta R.T.: 0.000 min
Response: 31448366277
Conc: 712.50 ng/ml



#10 Pentachlorophenol

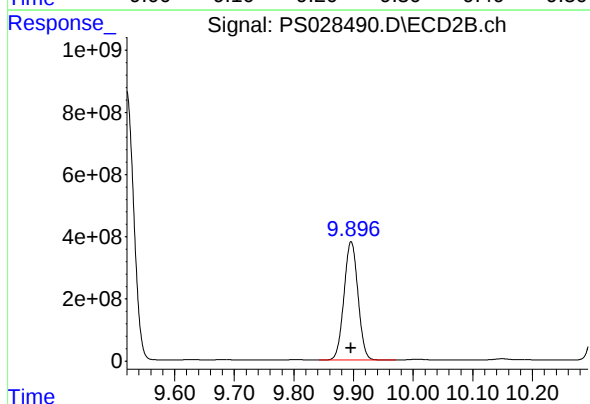
R.T.: 9.519 min
Delta R.T.: 0.000 min
Response: 14842013364
Conc: 712.50 ng/ml



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

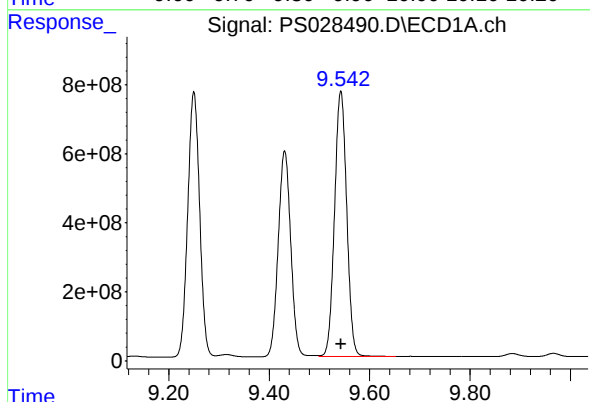
R.T.: 9.250 min
Delta R.T.: 0.000 min
Response: 12614355413
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



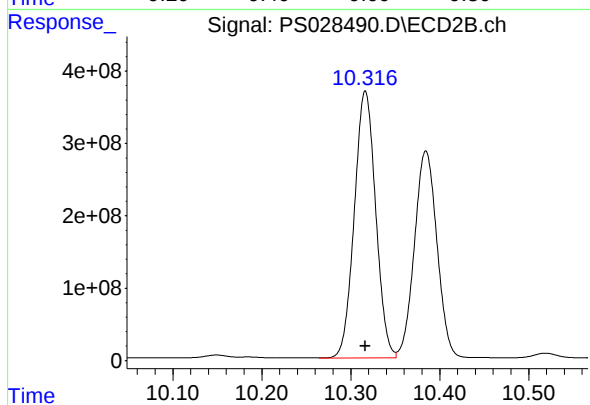
#11 2,4,5-TP (SILVEX)

R.T.: 9.896 min
Delta R.T.: 0.000 min
Response: 6207013622
Conc: 712.50 ng/ml



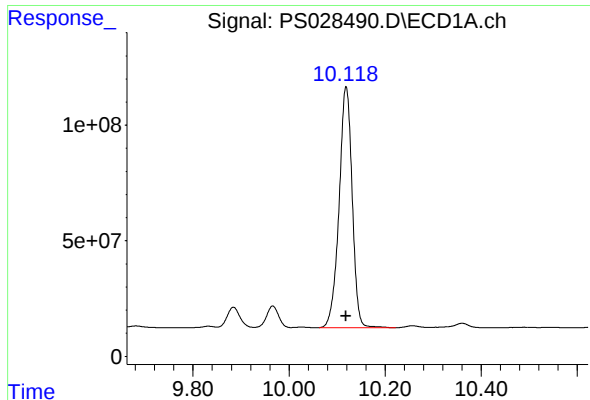
#12 2,4,5-T

R.T.: 9.543 min
Delta R.T.: 0.000 min
Response: 12901250117
Conc: 712.50 ng/ml



#12 2,4,5-T

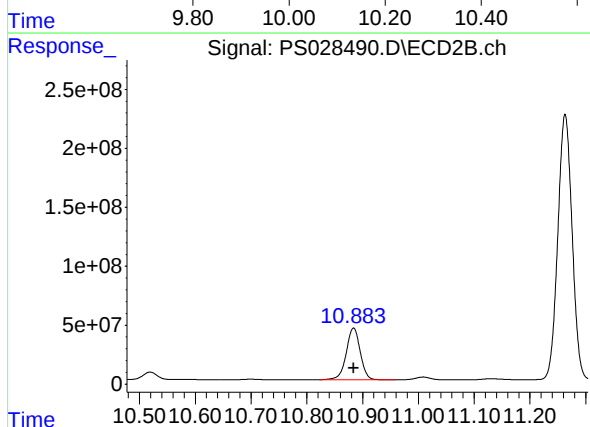
R.T.: 10.316 min
Delta R.T.: 0.000 min
Response: 6155260666
Conc: 712.50 ng/ml



#13 2,4-DB

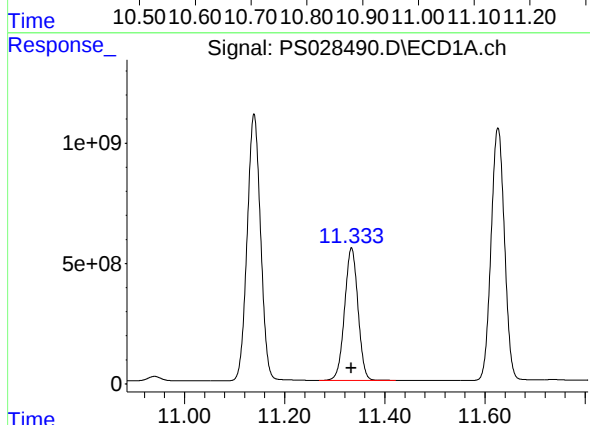
R.T.: 10.119 min
Delta R.T.: 0.000 min
Response: 1964699831
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



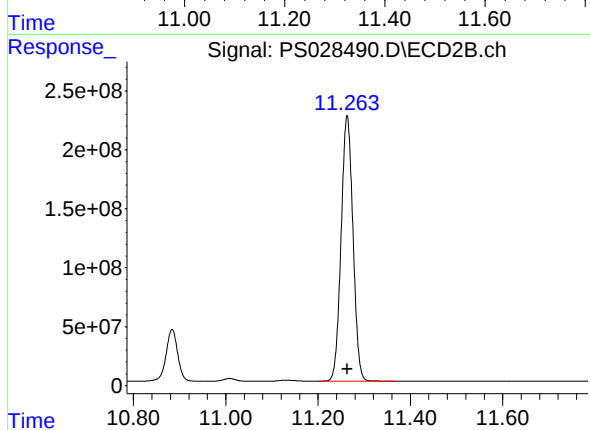
#13 2,4-DB

R.T.: 10.884 min
Delta R.T.: 0.000 min
Response: 761529427
Conc: 712.50 ng/ml



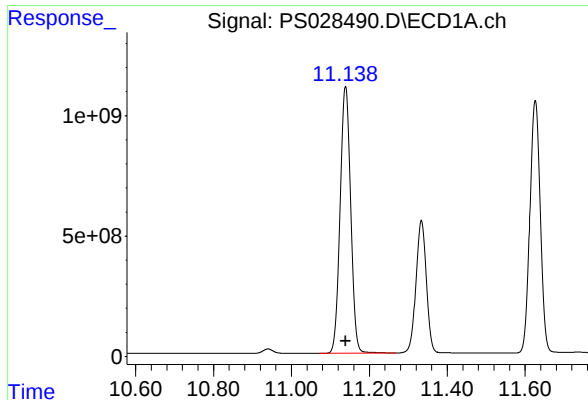
#14 DINOSEB

R.T.: 11.333 min
Delta R.T.: 0.000 min
Response: 10231593996
Conc: 705.00 ng/ml



#14 DINOSEB

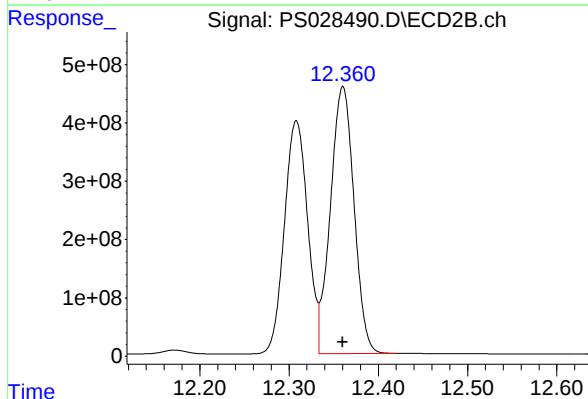
R.T.: 11.263 min
Delta R.T.: 0.000 min
Response: 4002299398
Conc: 705.00 ng/ml



#15 Picloram

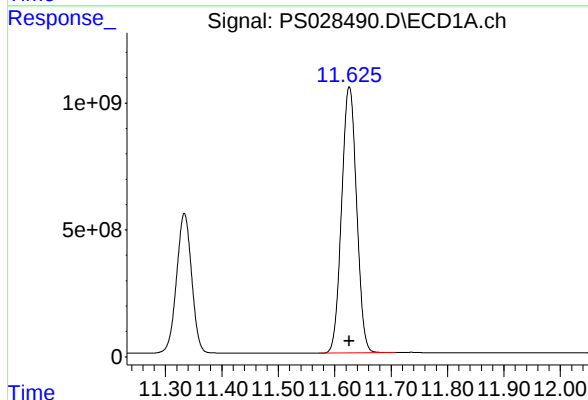
R.T.: 11.139 min
Delta R.T.: 0.000 min
Response: 20641144230
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



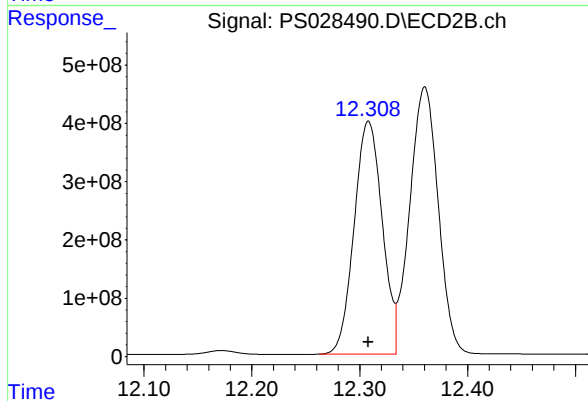
#15 Picloram

R.T.: 12.360 min
Delta R.T.: 0.000 min
Response: 8398927250
Conc: 712.50 ng/ml



#16 DCPA

R.T.: 11.626 min
Delta R.T.: 0.000 min
Response: 19389506655
Conc: 720.00 ng/ml



#16 DCPA

R.T.: 12.308 min
Delta R.T.: 0.000 min
Response: 7229491572
Conc: 720.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
 Data File : PS028491.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 13 Nov 2024 12:58
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 144 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 13 13:15:50 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:15:40 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	7.241	7.741	2437.3E6	1279.8E6	935.286	986.066
Target Compounds						
1) T Dalapon	2.638	2.698	3097.2E6	2216.5E6	926.916	918.906
2) T 3,5-DICHL...	6.411	6.694	3340.3E6	1785.4E6	880.356	920.974
3) T 4-Nitroph...	7.039	7.268	1502.1E6	767.8E6	876.900	883.678
5) T DICAMBA	7.429	7.942	10134.0E6	5488.3E6	917.257	968.671
6) T MCPP	7.614	8.047	698.6E6	412.5E6	101.642	96.801
7) T MCPA	7.765	8.293	958.7E6	569.9E6	94.404	91.819
8) T DICHLORPROP	8.139	8.659	2659.6E6	1365.9E6	885.462	934.272
9) T 2,4-D	8.369	8.990	2872.6E6	1456.2E6	882.363	926.403
10) T Pentachlo...	8.669	9.519	38875.4E6	18990.2E6	885.375	937.205
11) T 2,4,5-TP ...	9.250	9.896	15993.7E6	8041.8E6	904.527	949.834
12) T 2,4,5-T	9.542	10.317	16383.0E6	7961.4E6	905.485	945.412
13) T 2,4-DB	10.119	10.884	2532.2E6	996.7E6	921.287	954.765
14) T DINOSEB	11.333	11.264	13051.7E6	5185.0E6	904.558	937.395
15) T Picloram	11.139	12.360	26521.4E6	11113.2E6	935.715	992.347
16) T DCPA	11.626	12.308	24505.8E6	9369.3E6	914.733	964.003

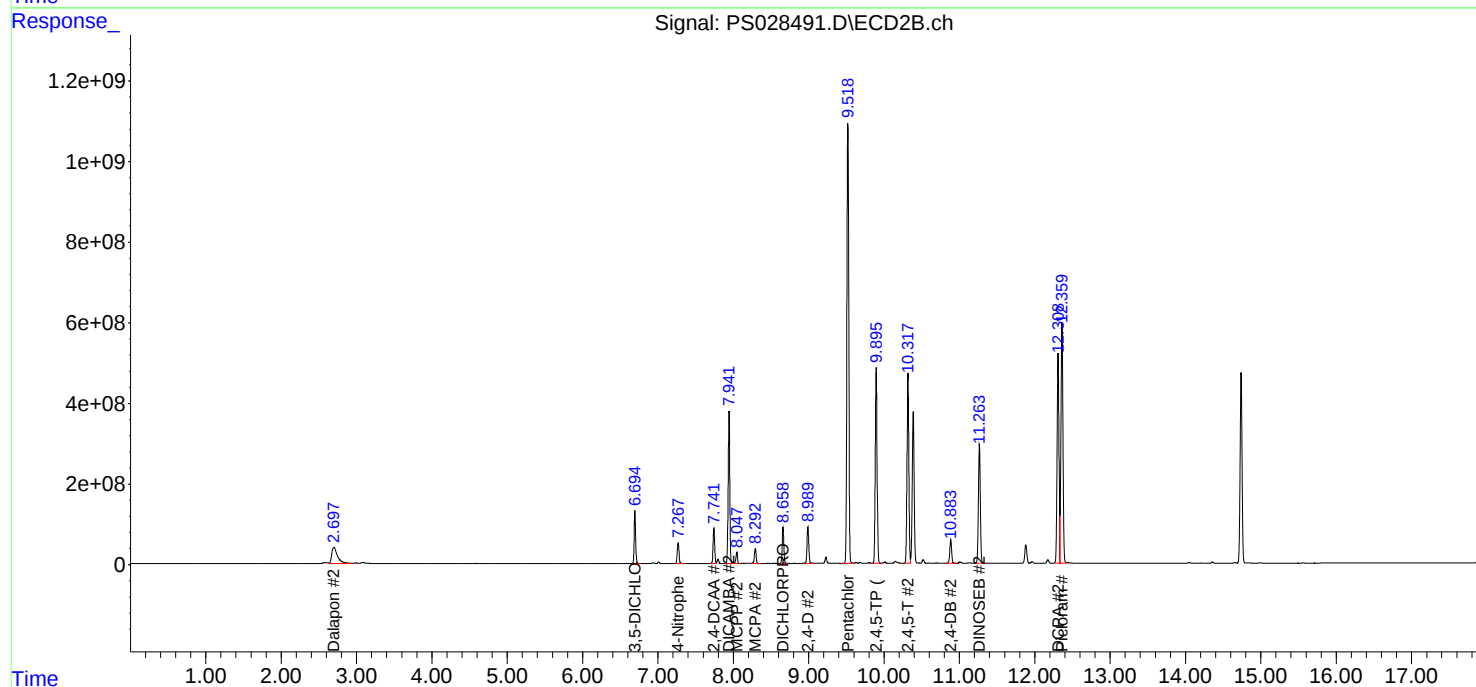
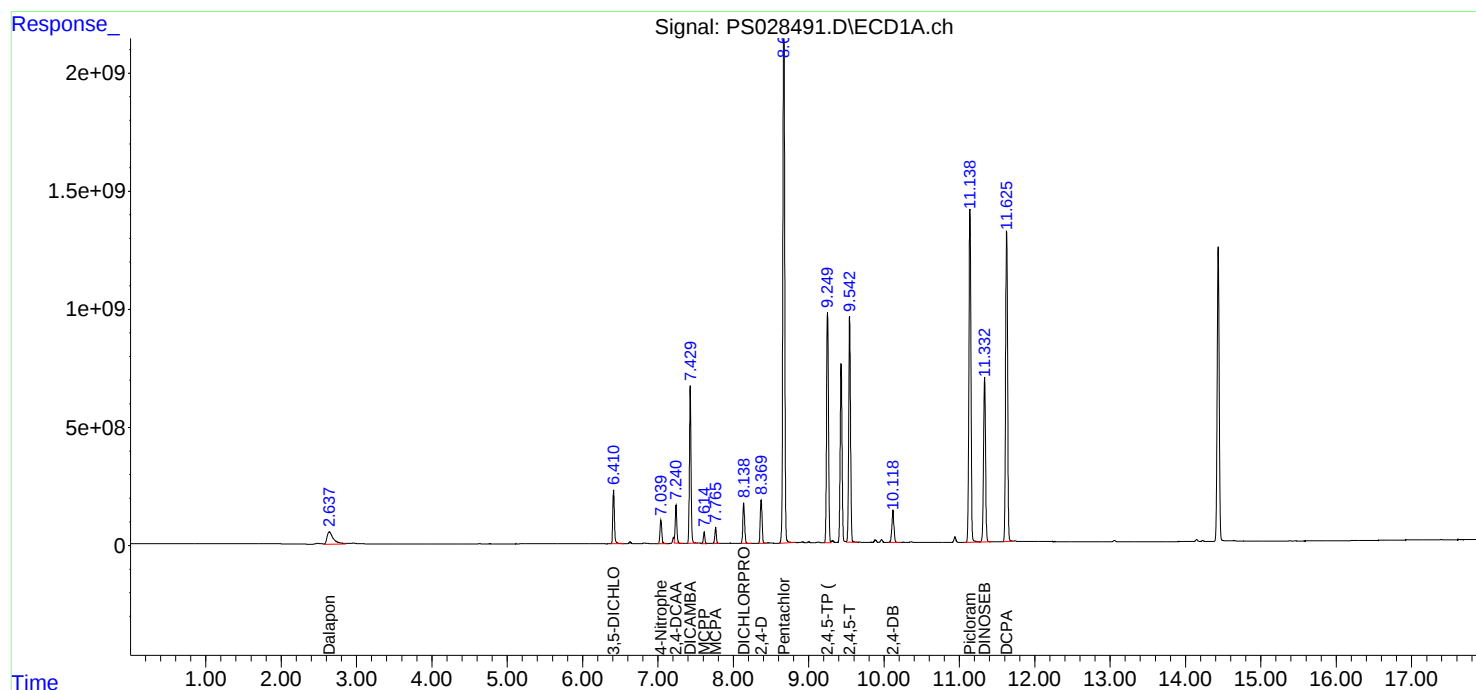
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

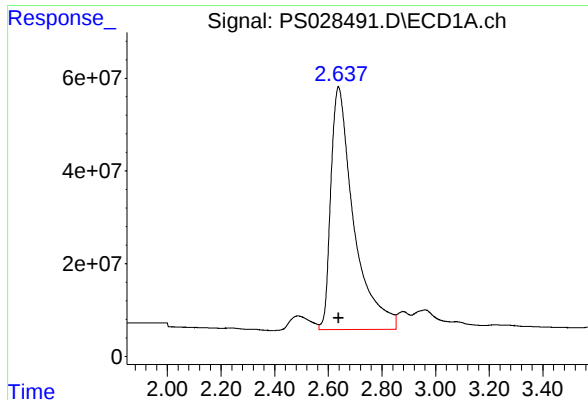
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
Data File : PS028491.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Nov 2024 12:58
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 144 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 13 13:15:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:15:40 2024
Response via : Initial Calibration
Integrator: ChemStation

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

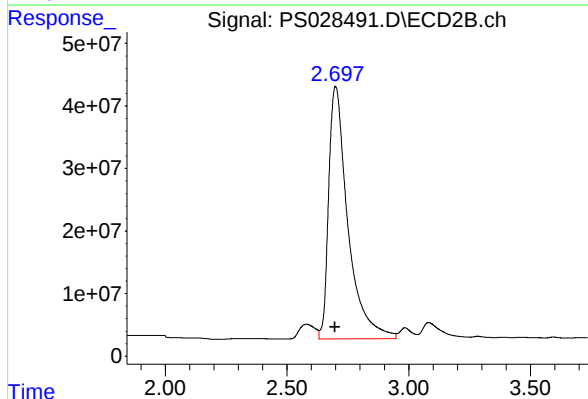




#1 Dalapon

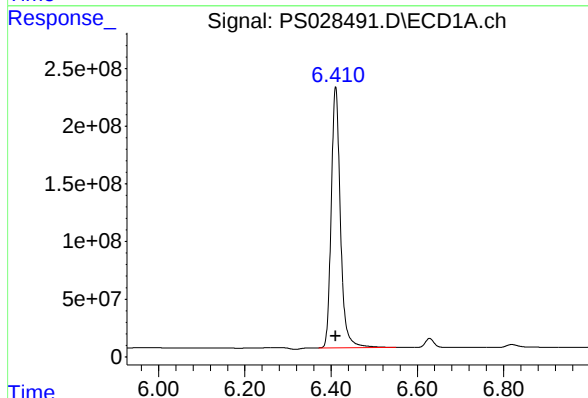
R.T.: 2.638 min
Delta R.T.: 0.000 min
Response: 3097188890
Conc: 926.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



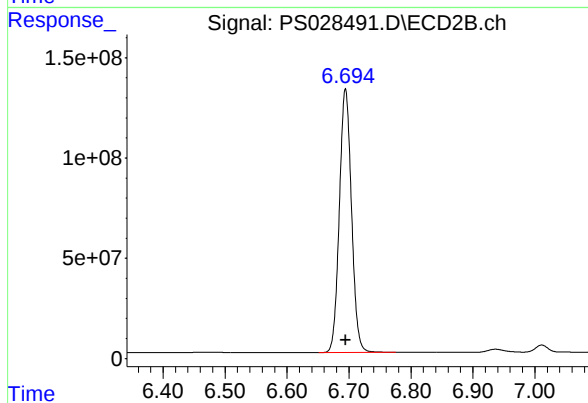
#1 Dalapon

R.T.: 2.698 min
Delta R.T.: 0.000 min
Response: 2216491356
Conc: 918.91 ng/ml



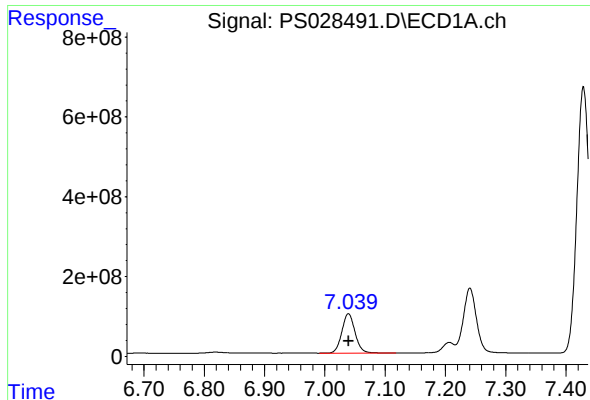
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.411 min
Delta R.T.: 0.000 min
Response: 3340303635
Conc: 880.36 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

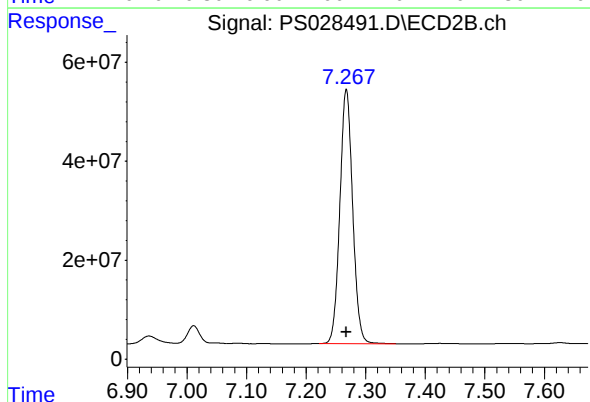
R.T.: 6.694 min
Delta R.T.: 0.000 min
Response: 1785427365
Conc: 920.97 ng/ml



#3 4-Nitrophenol

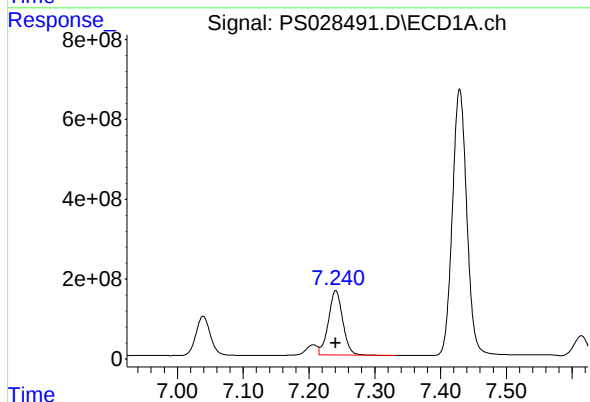
R.T.: 7.039 min
Delta R.T.: 0.000 min
Response: 1502112162
Conc: 876.90 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



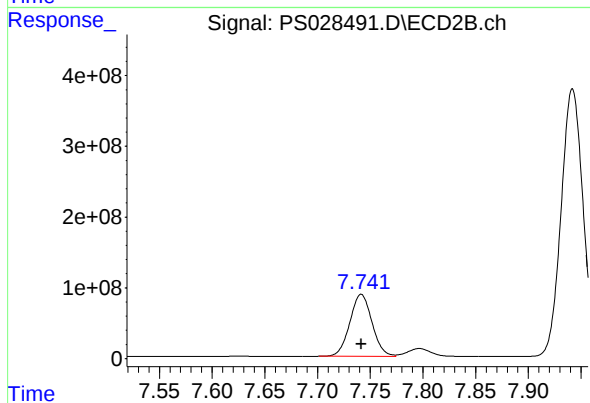
#3 4-Nitrophenol

R.T.: 7.268 min
Delta R.T.: 0.000 min
Response: 767826165
Conc: 883.68 ng/ml



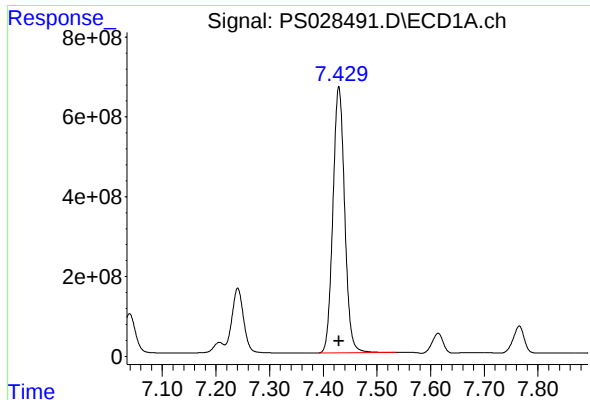
#4 2,4-DCAA

R.T.: 7.241 min
Delta R.T.: 0.000 min
Response: 2437333540
Conc: 935.29 ng/ml



#4 2,4-DCAA

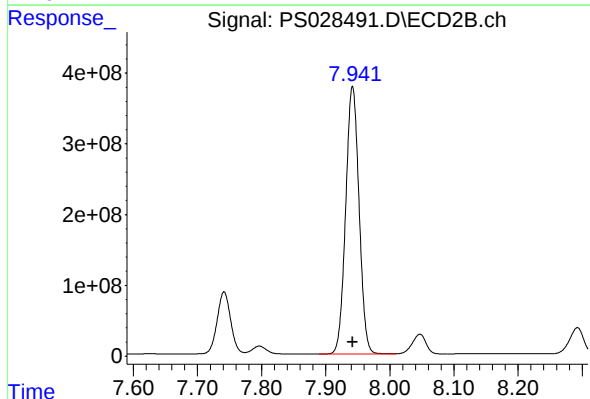
R.T.: 7.741 min
Delta R.T.: 0.000 min
Response: 1279754935
Conc: 986.07 ng/ml



#5 DICAMBA

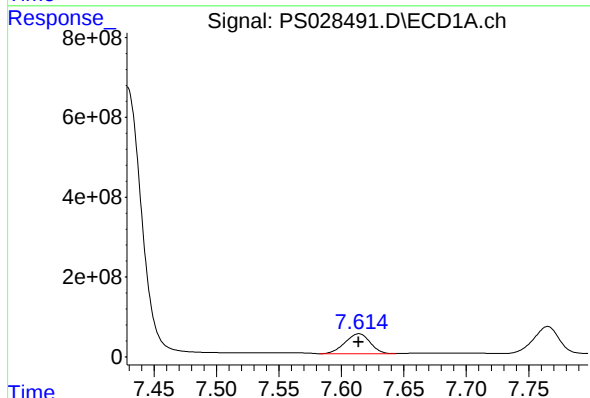
R.T.: 7.429 min
Delta R.T.: 0.000 min
Response: 10133977678
Conc: 917.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



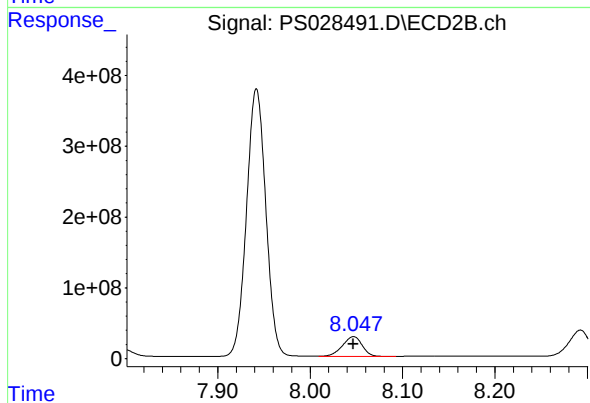
#5 DICAMBA

R.T.: 7.942 min
Delta R.T.: 0.000 min
Response: 5488322707
Conc: 968.67 ng/ml



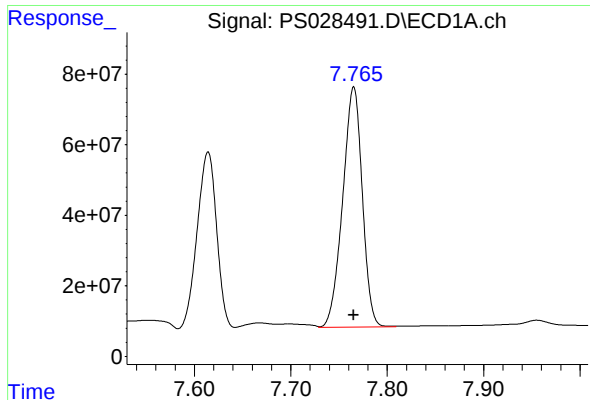
#6 MCPP

R.T.: 7.614 min
Delta R.T.: 0.000 min
Response: 698630394
Conc: 101.64 ug/ml



#6 MCPP

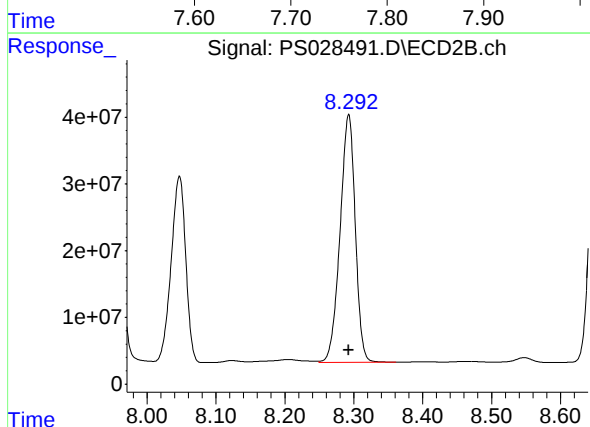
R.T.: 8.047 min
Delta R.T.: 0.000 min
Response: 412474862
Conc: 96.80 ug/ml



#7 MCPA

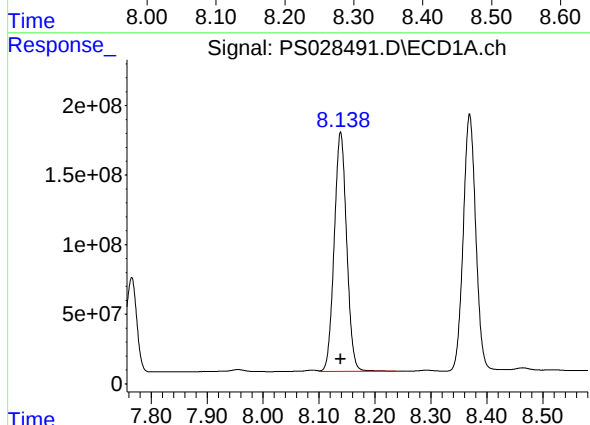
R.T.: 7.765 min
Delta R.T.: 0.000 min
Response: 958741704
Conc: 94.40 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



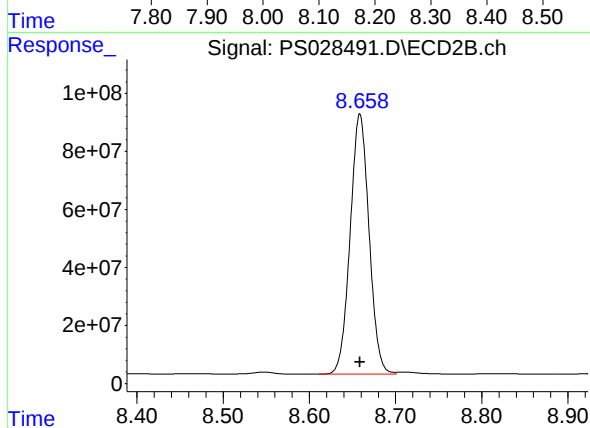
#7 MCPA

R.T.: 8.293 min
Delta R.T.: 0.000 min
Response: 569862420
Conc: 91.82 ug/ml



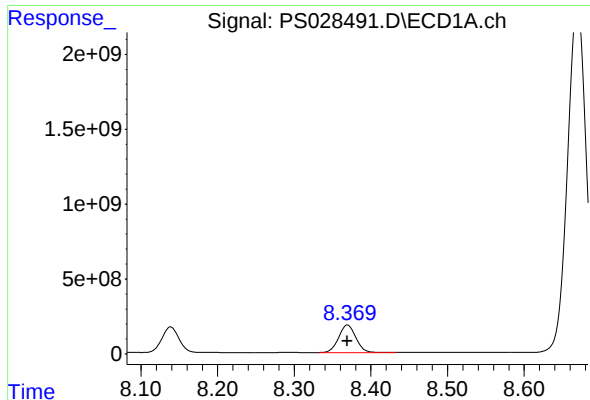
#8 DICHLORPROP

R.T.: 8.139 min
Delta R.T.: 0.000 min
Response: 2659645295
Conc: 885.46 ng/ml



#8 DICHLORPROP

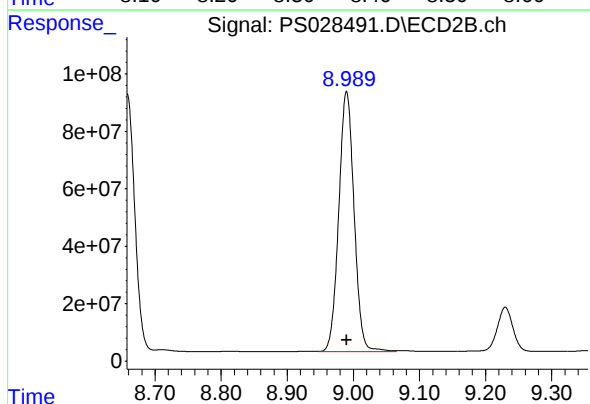
R.T.: 8.659 min
Delta R.T.: 0.000 min
Response: 1365869094
Conc: 934.27 ng/ml



#9 2,4-D

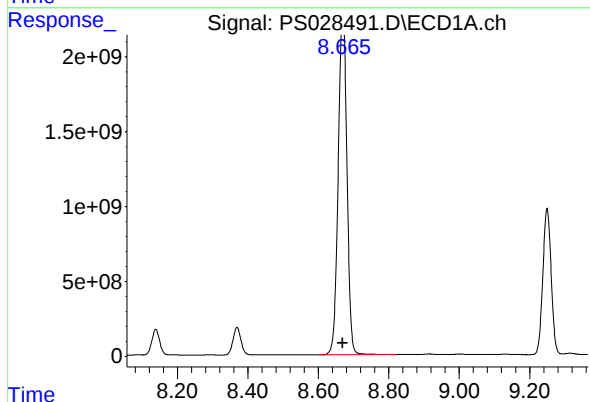
R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 2872554028
Conc: 882.36 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



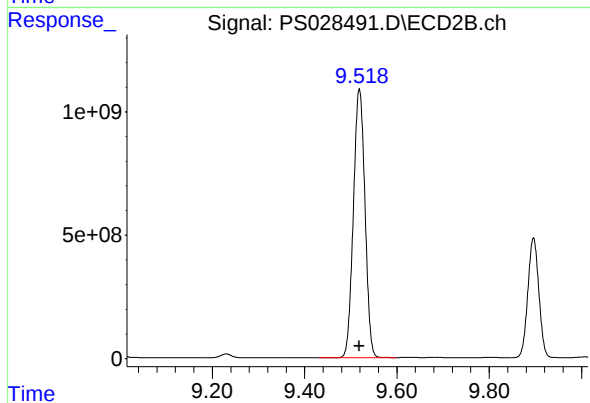
#9 2,4-D

R.T.: 8.990 min
Delta R.T.: 0.000 min
Response: 1456230641
Conc: 926.40 ng/ml



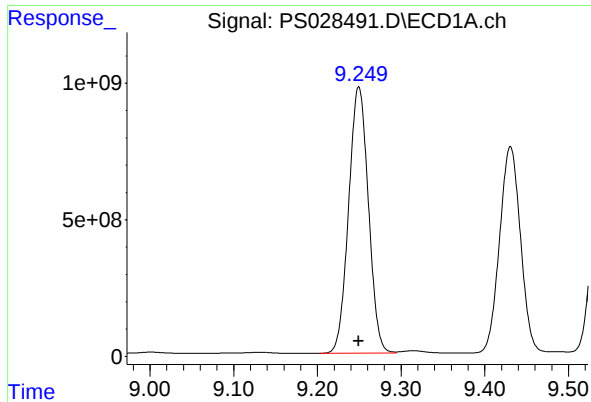
#10 Pentachlorophenol

R.T.: 8.669 min
Delta R.T.: 0.000 min
Response: 38875432201
Conc: 885.38 ng/ml



#10 Pentachlorophenol

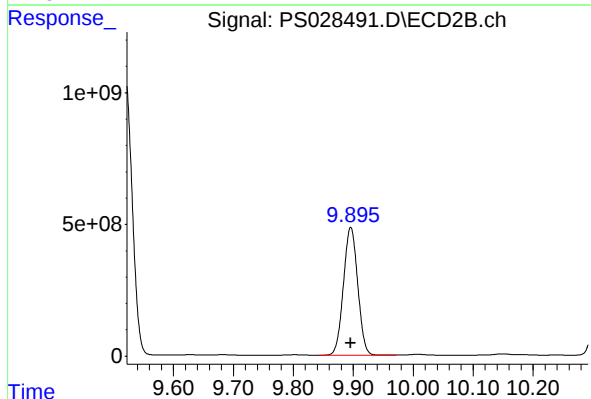
R.T.: 9.519 min
Delta R.T.: 0.000 min
Response: 18990223696
Conc: 937.21 ng/ml



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

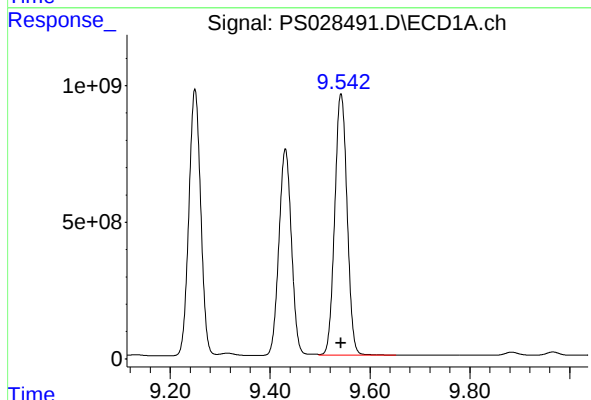
R.T.: 9.250 min
Delta R.T.: 0.000 min
Response: 15993733921
Conc: 904.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



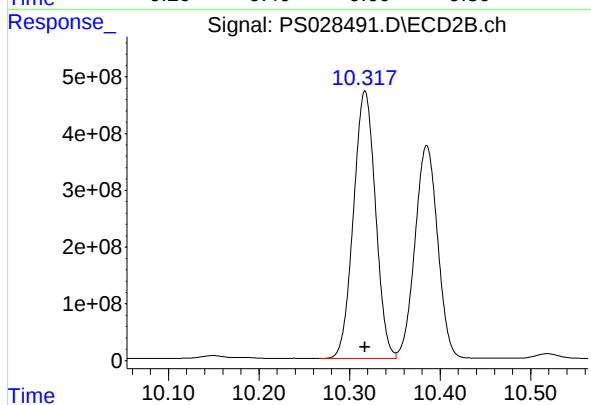
#11 2,4,5-TP (SILVEX)

R.T.: 9.896 min
Delta R.T.: 0.000 min
Response: 8041812555
Conc: 949.83 ng/ml



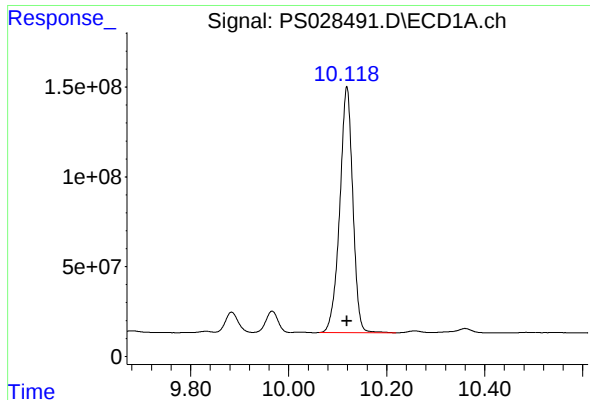
#12 2,4,5-T

R.T.: 9.542 min
Delta R.T.: 0.000 min
Response: 16383001078
Conc: 905.48 ng/ml



#12 2,4,5-T

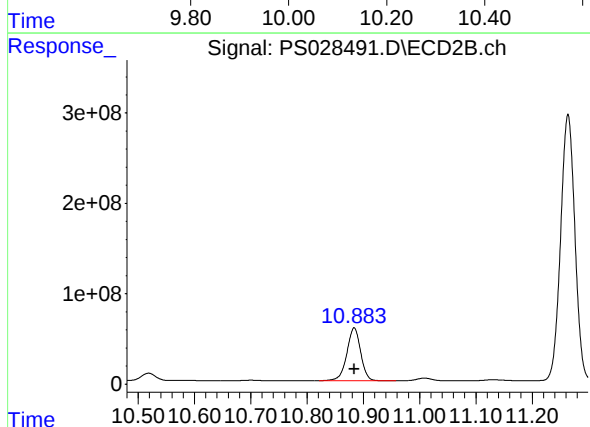
R.T.: 10.317 min
Delta R.T.: 0.000 min
Response: 7961373638
Conc: 945.41 ng/ml



#13 2,4-DB

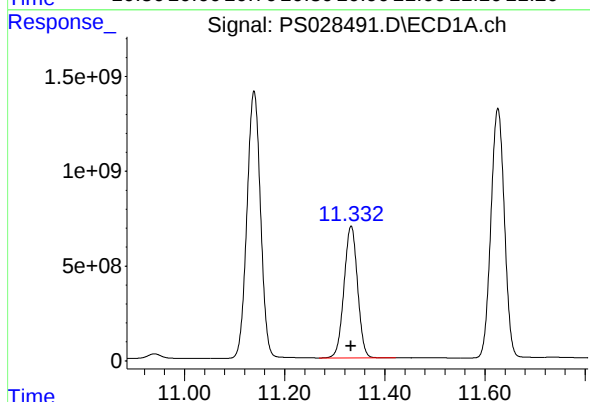
R.T.: 10.119 min
Delta R.T.: 0.000 min
Response: 2532202888
Conc: 921.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



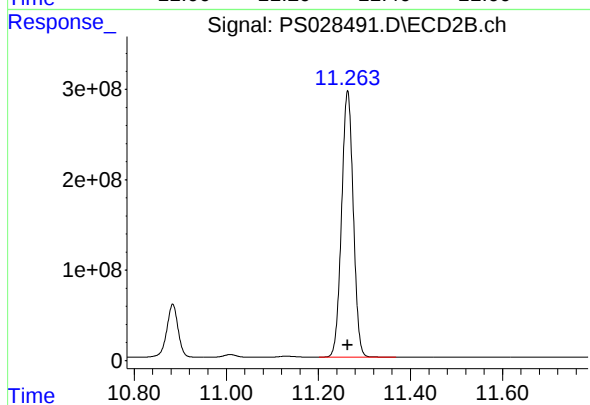
#13 2,4-DB

R.T.: 10.884 min
Delta R.T.: 0.000 min
Response: 996697235
Conc: 954.77 ng/ml



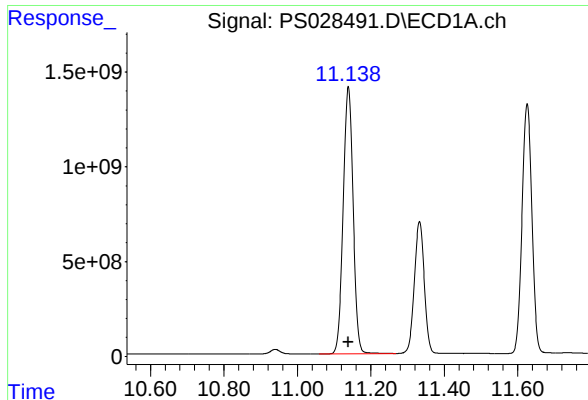
#14 DINOSEB

R.T.: 11.333 min
Delta R.T.: 0.000 min
Response: 13051679451
Conc: 904.56 ng/ml



#14 DINOSEB

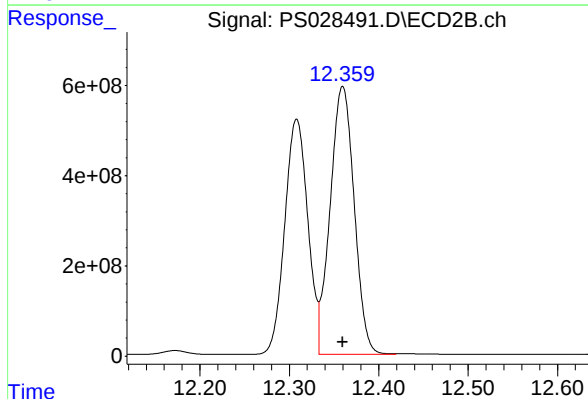
R.T.: 11.264 min
Delta R.T.: 0.000 min
Response: 5184983827
Conc: 937.39 ng/ml



#15 Picloram

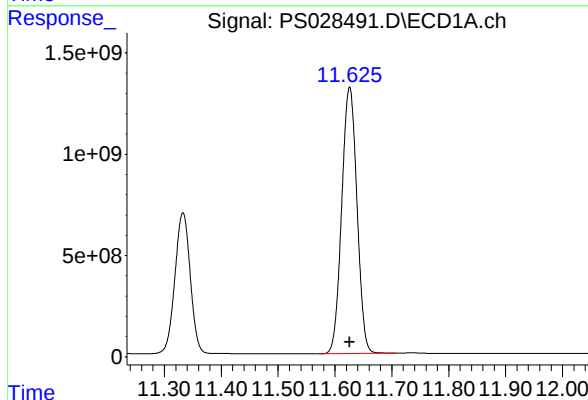
R.T.: 11.139 min
Delta R.T.: 0.000 min
Response: 26521355067
Conc: 935.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



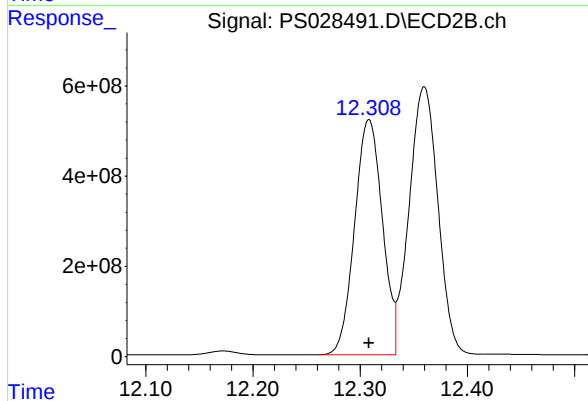
#15 Picloram

R.T.: 12.360 min
Delta R.T.: 0.000 min
Response: 11113151634
Conc: 992.35 ng/ml



#16 DCPA

R.T.: 11.626 min
Delta R.T.: 0.000 min
Response: 24505773948
Conc: 914.73 ng/ml



#16 DCPA

R.T.: 12.308 min
Delta R.T.: 0.000 min
Response: 9369253803
Conc: 964.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
 Data File : PS028492.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 13 Nov 2024 13:23
 Operator : AR\AJ
 Sample : HSTDICC1500
 Misc :
 ALS Vial : 145 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 13 13:40:14 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:40:05 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	7.241	7.742	3533.3E6	1905.3E6	1382.402	1474.308
Target Compounds						
1) T Dalapon	2.635	2.697	4684.4E6	3345.9E6	1394.380	1382.652
2) T 3,5-DICHL...	6.411	6.695	4853.8E6	2660.9E6	1300.833	1377.015
3) T 4-Nitroph...	7.039	7.268	2239.0E6	1148.5E6	1318.286	1330.198
5) T DICAMBA	7.429	7.943	14829.4E6	8258.5E6	1355.280	1447.818
6) T MCPP	7.617	8.051	1082.8E6	628.9E6	153.926	146.228
7) T MCPA	7.769	8.297	1450.8E6	856.8E6	142.174	138.339
8) T DICHLORPROP	8.139	8.660	3866.3E6	2051.5E6	1310.015	1404.623
9) T 2,4-D	8.369	8.990	4177.2E6	2171.5E6	1306.627	1387.062
10) T Pentachlo...	8.670	9.519	47091.3E6	27326.2E6	1128.313	1363.219
11) T 2,4,5-TP ...	9.249	9.897	22979.6E6	11863.5E6	1322.895	1405.918
12) T 2,4,5-T	9.542	10.317	23513.1E6	11724.2E6	1322.852	1398.679
13) T 2,4-DB	10.118	10.884	3753.3E6	1514.8E6	1377.045	1445.771
14) T DINOSEB	11.332	11.263	19138.8E6	7779.6E6	1342.345	1407.175
15) T Picloram	11.138	12.361	39080.7E6	16814.7E6	1387.823	1485.523
16) T DCPA	11.625	12.310	35145.3E6	13846.6E6	1335.645	1427.712

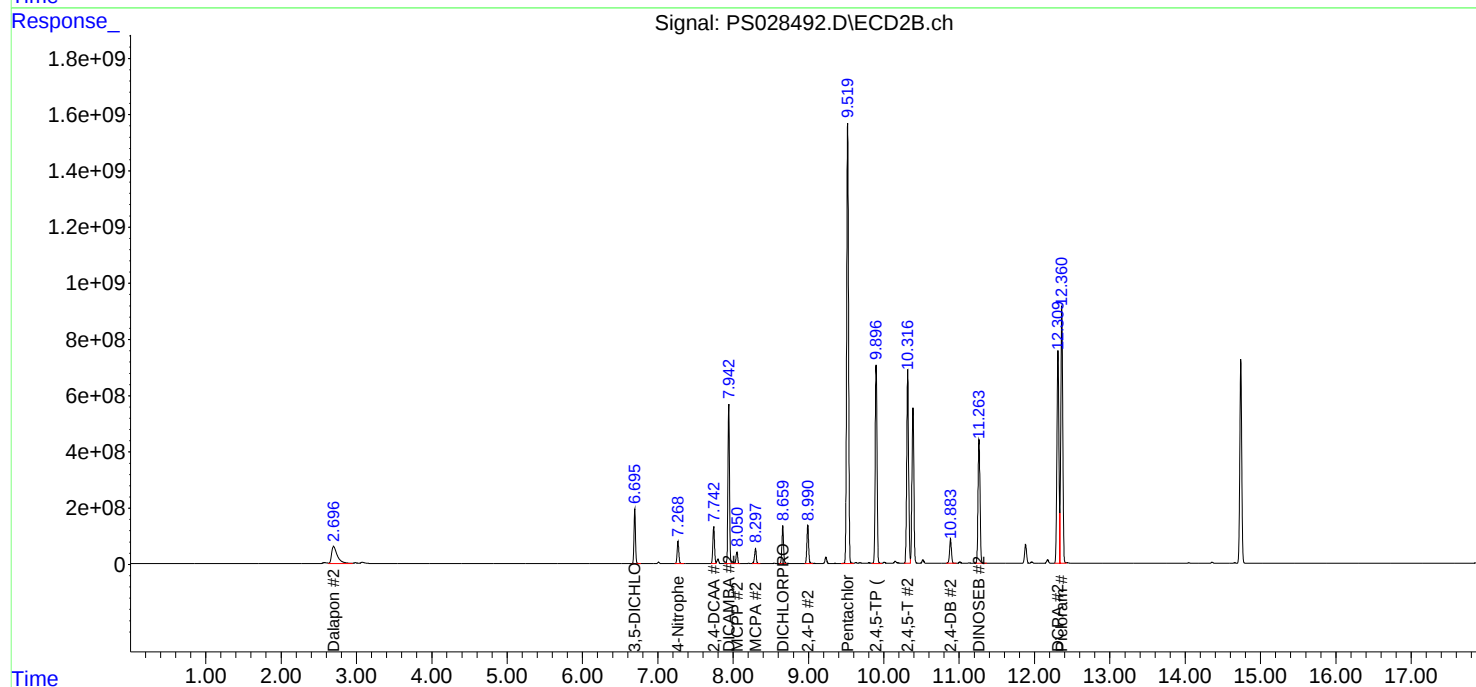
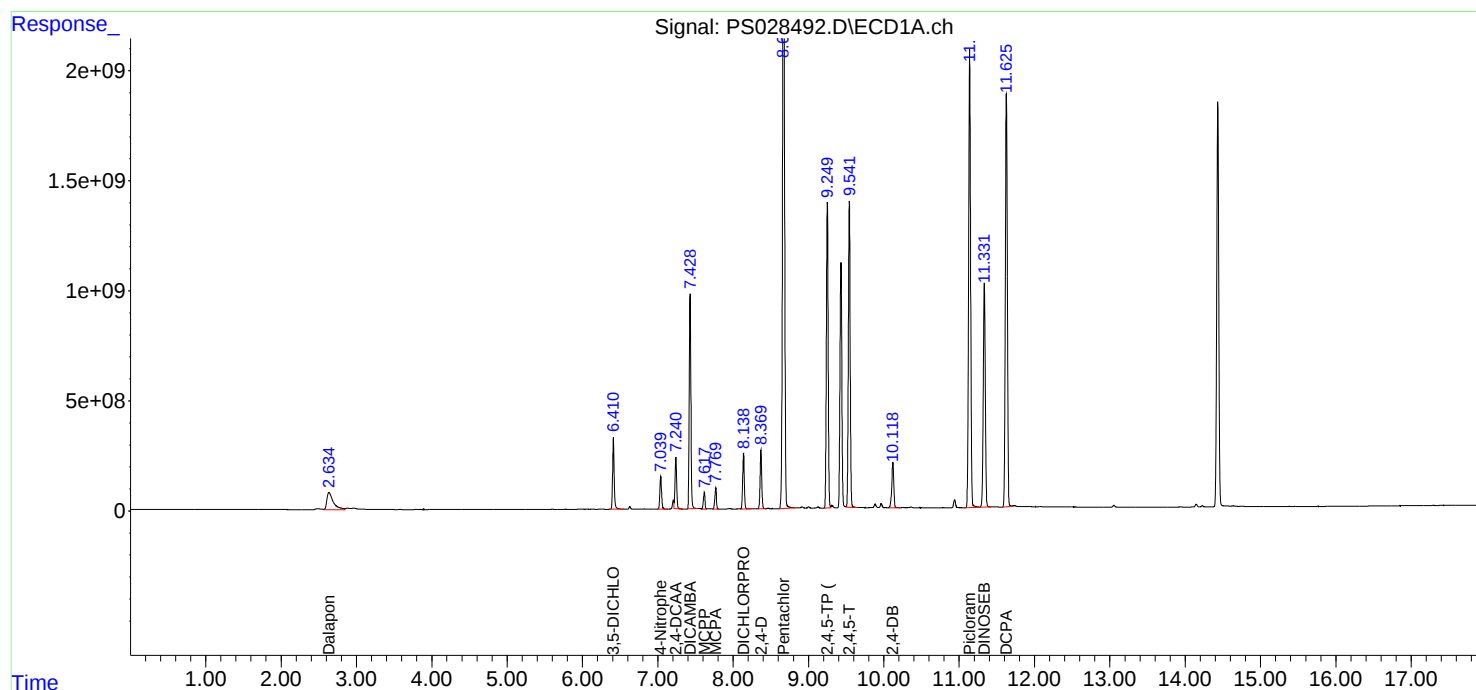
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

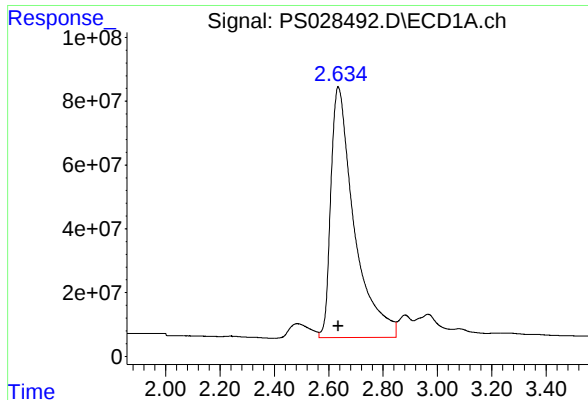
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
Data File : PS028492.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Nov 2024 13:23
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 145 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 13 13:40:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:40:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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

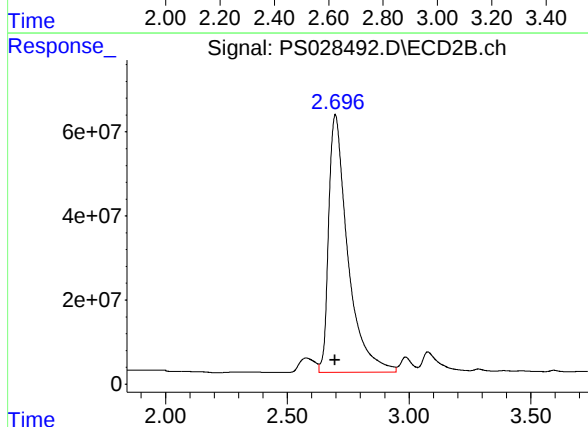




#1 Dalapon

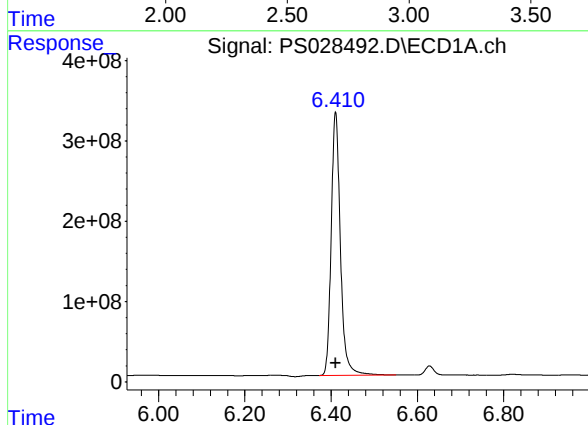
R.T.: 2.635 min
Delta R.T.: 0.000 min
Response: 4684374797
Conc: 1394.38 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



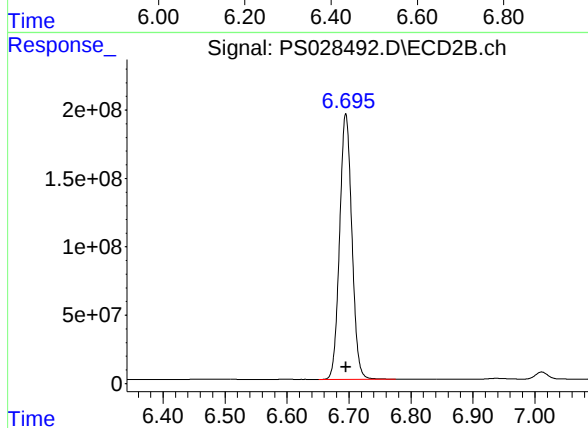
#1 Dalapon

R.T.: 2.697 min
Delta R.T.: 0.000 min
Response: 3345907026
Conc: 1382.65 ng/ml



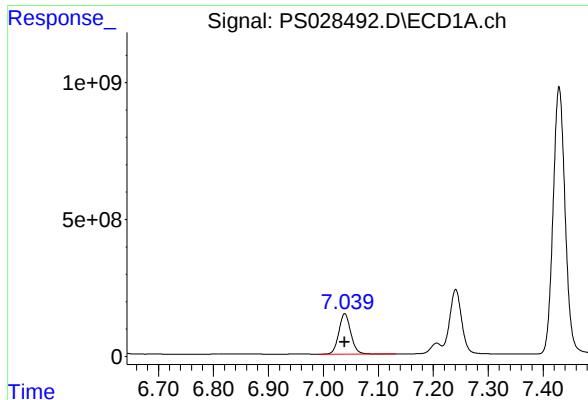
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.411 min
Delta R.T.: 0.000 min
Response: 4853792355
Conc: 1300.83 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

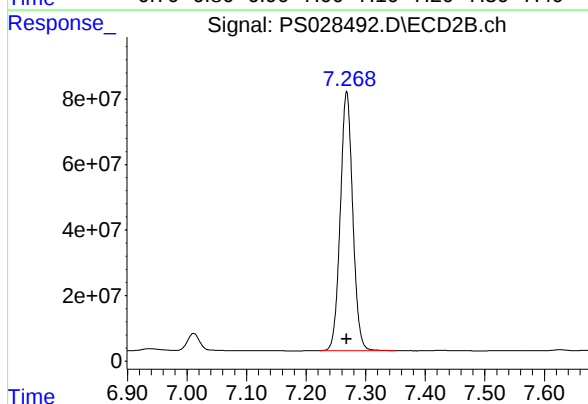
R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 2660945970
Conc: 1377.01 ng/ml



#3 4-Nitrophenol

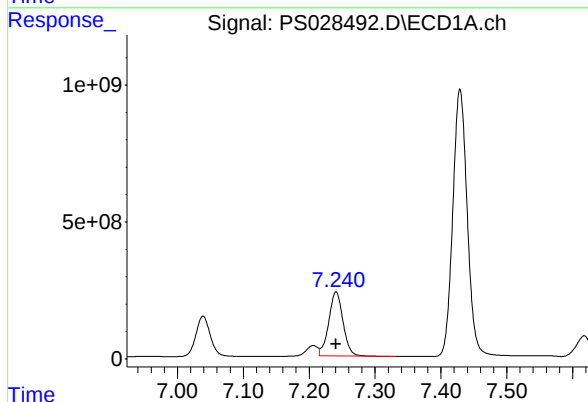
R.T.: 7.039 min
Delta R.T.: 0.000 min
Response: 2239042193
Conc: 1318.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



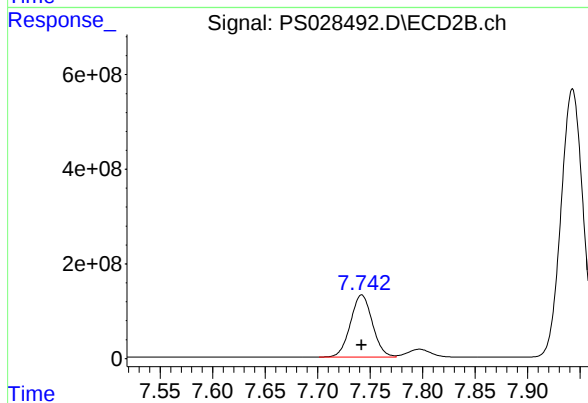
#3 4-Nitrophenol

R.T.: 7.268 min
Delta R.T.: 0.000 min
Response: 1148485918
Conc: 1330.20 ng/ml



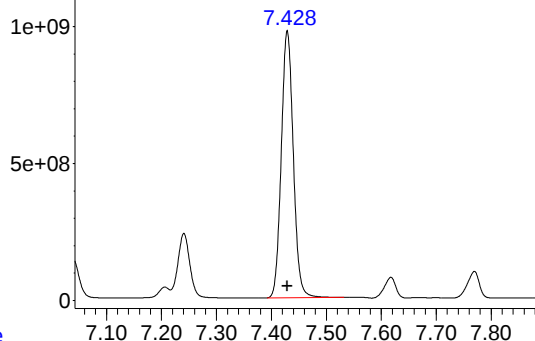
#4 2,4-DCAA

R.T.: 7.241 min
Delta R.T.: 0.000 min
Response: 3533256934
Conc: 1382.40 ng/ml



#4 2,4-DCAA

R.T.: 7.742 min
Delta R.T.: 0.000 min
Response: 1905255228
Conc: 1474.31 ng/ml



R.T.: 7.429 min
Delta R.T.: 0.000 min
Response: 14829439520
Conc: 1355.28 ng/ml

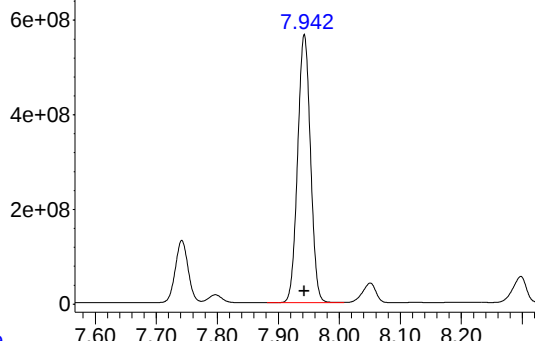
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Time

Response_

Signal: PS028492.D\ECD2B.ch

#5 DICAMBA



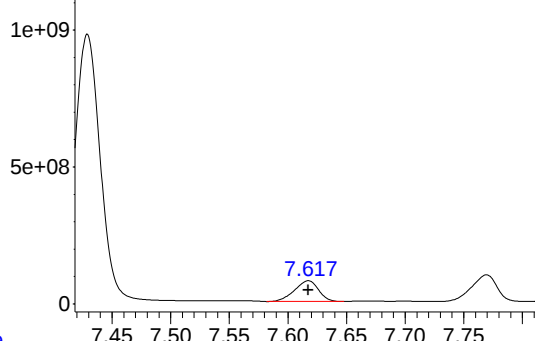
R.T.: 7.943 min
Delta R.T.: 0.000 min
Response: 8258462541
Conc: 1447.82 ng/ml

Time

Response_

Signal: PS028492.D\ECD1A.ch

#6 MCPP



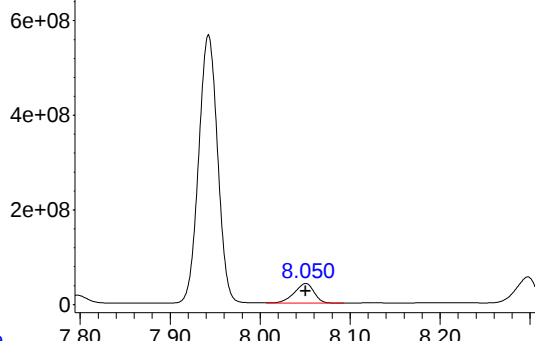
R.T.: 7.617 min
Delta R.T.: 0.000 min
Response: 1082821265
Conc: 153.93 ug/ml

Time

Response_

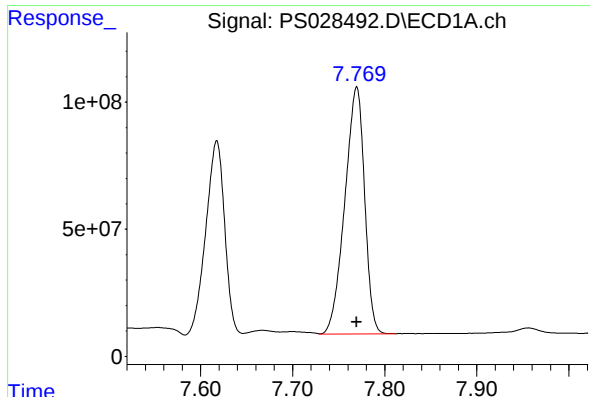
Signal: PS028492.D\ECD2B.ch

#6 MCPP



R.T.: 8.051 min
Delta R.T.: 0.000 min
Response: 628915993
Conc: 146.23 ug/ml

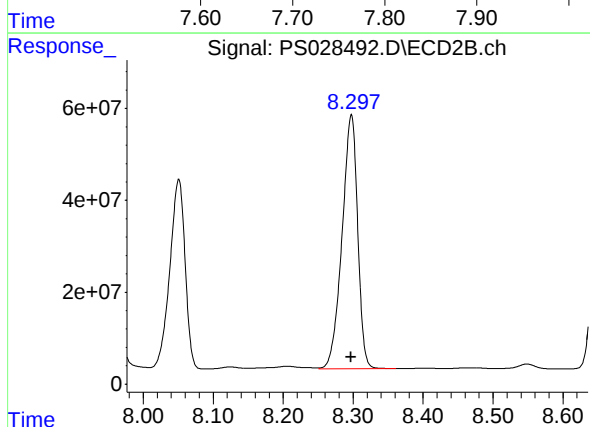
Time



#7 MCPA

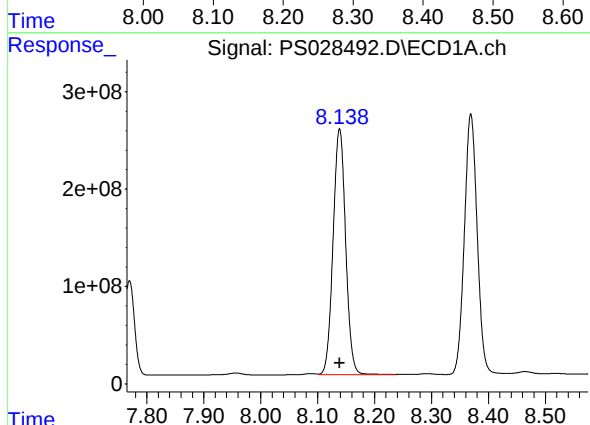
R.T.: 7.769 min
Delta R.T.: 0.000 min
Response: 1450844171
Conc: 142.17 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



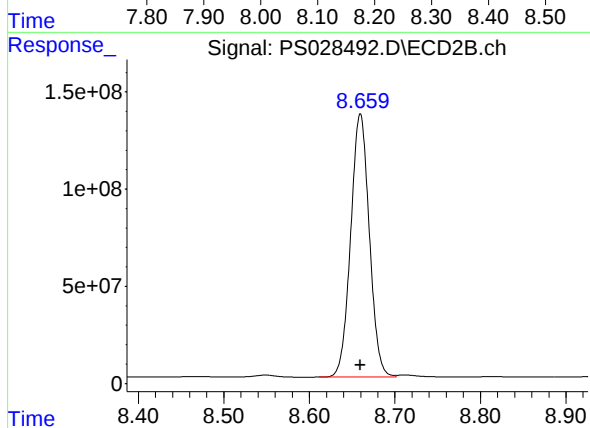
#7 MCPA

R.T.: 8.297 min
Delta R.T.: 0.000 min
Response: 856794504
Conc: 138.34 ug/ml



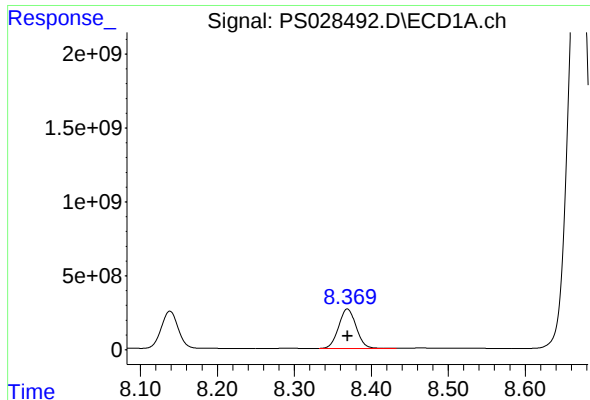
#8 DICHLORPROP

R.T.: 8.139 min
Delta R.T.: 0.000 min
Response: 3866326812
Conc: 1310.02 ng/ml



#8 DICHLORPROP

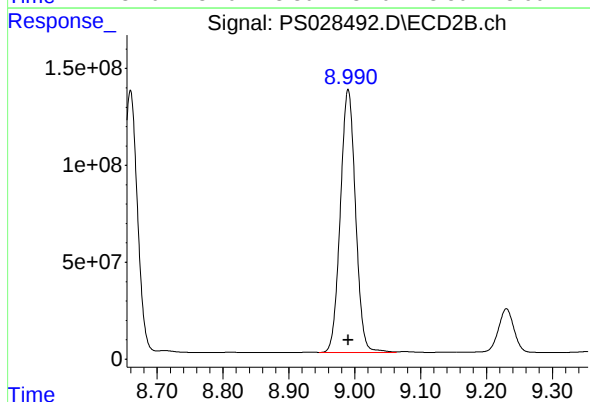
R.T.: 8.660 min
Delta R.T.: 0.000 min
Response: 2051547391
Conc: 1404.62 ng/ml



#9 2,4-D

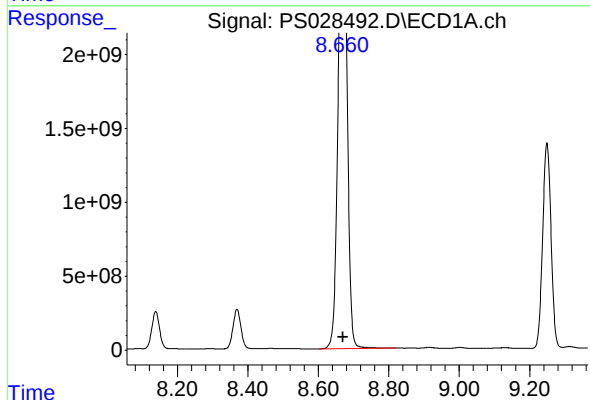
R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 4177191817
Conc: 1306.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



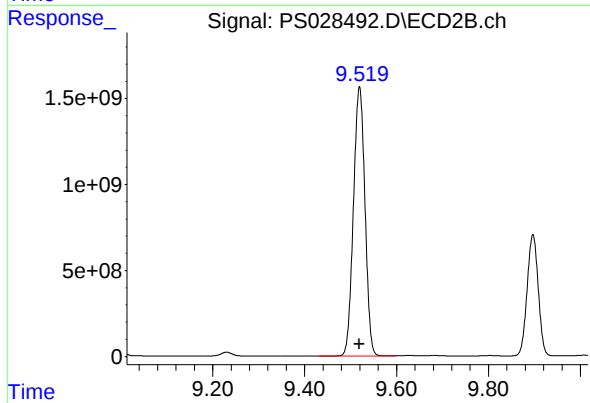
#9 2,4-D

R.T.: 8.990 min
Delta R.T.: 0.000 min
Response: 2171516412
Conc: 1387.06 ng/ml



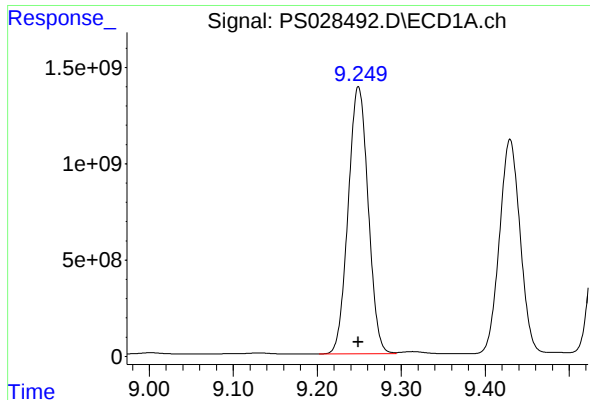
#10 Pentachlorophenol

R.T.: 8.670 min
Delta R.T.: 0.000 min
Response: 47091299464
Conc: 1128.31 ng/ml



#10 Pentachlorophenol

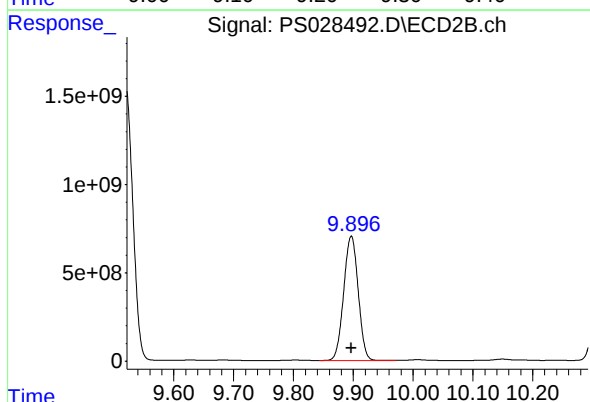
R.T.: 9.519 min
Delta R.T.: 0.000 min
Response: 27326185788
Conc: 1363.22 ng/ml



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

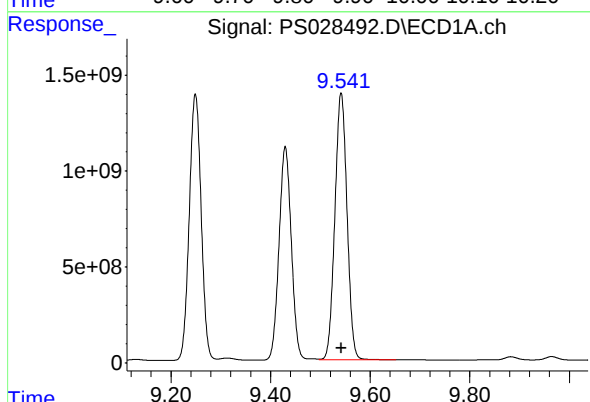
R.T.: 9.249 min
Delta R.T.: 0.000 min
Response: 22979621708
Conc: 1322.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



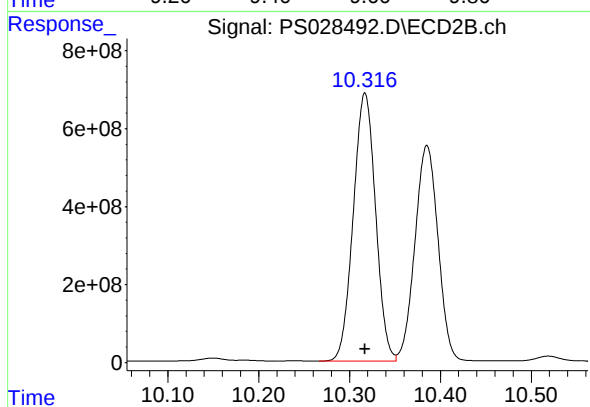
#11 2,4,5-TP (SILVEX)

R.T.: 9.897 min
Delta R.T.: 0.000 min
Response: 11863549453
Conc: 1405.92 ng/ml



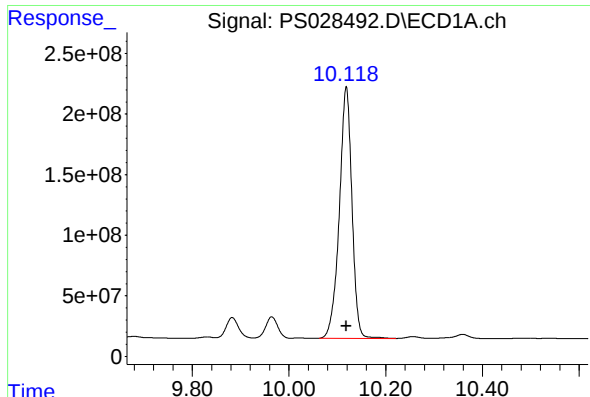
#12 2,4,5-T

R.T.: 9.542 min
Delta R.T.: 0.000 min
Response: 23513090295
Conc: 1322.85 ng/ml



#12 2,4,5-T

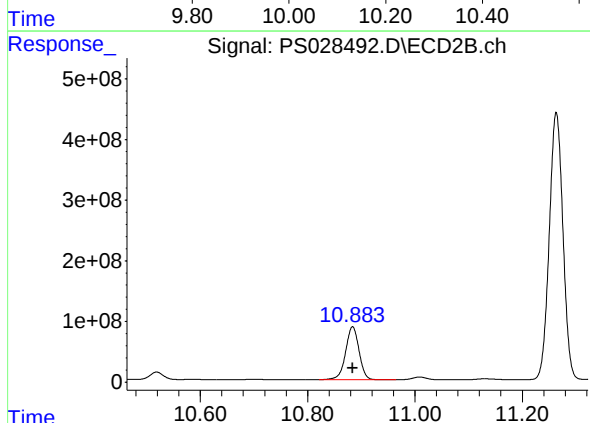
R.T.: 10.317 min
Delta R.T.: 0.000 min
Response: 11724228472
Conc: 1398.68 ng/ml



#13 2,4-DB

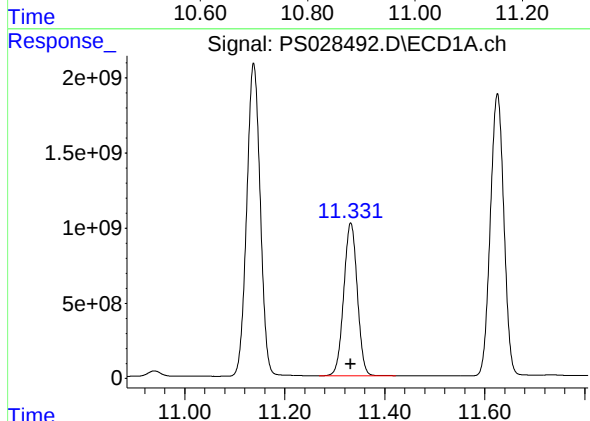
R.T.: 10.118 min
Delta R.T.: 0.000 min
Response: 3753302338
Conc: 1377.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



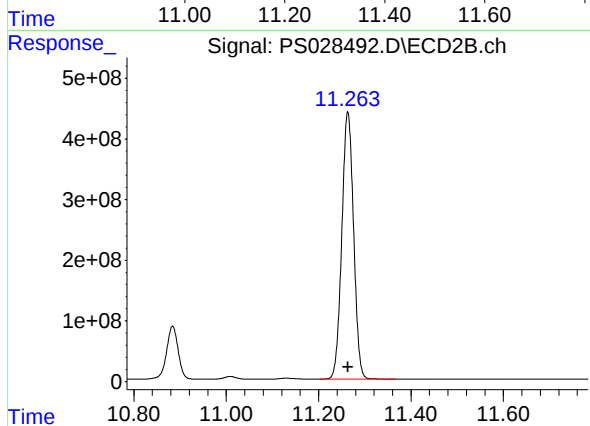
#13 2,4-DB

R.T.: 10.884 min
Delta R.T.: 0.000 min
Response: 1514786905
Conc: 1445.77 ng/ml



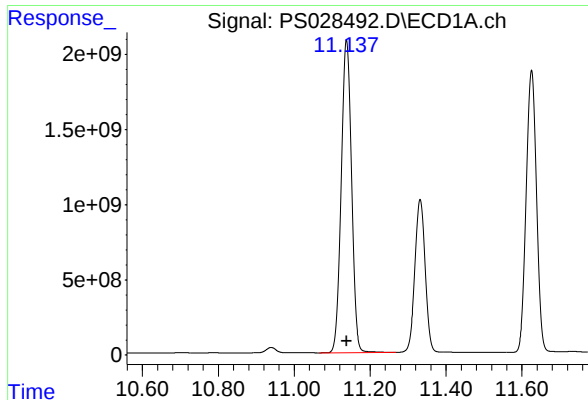
#14 DINOSEB

R.T.: 11.332 min
Delta R.T.: 0.000 min
Response: 19138848158
Conc: 1342.35 ng/ml



#14 DINOSEB

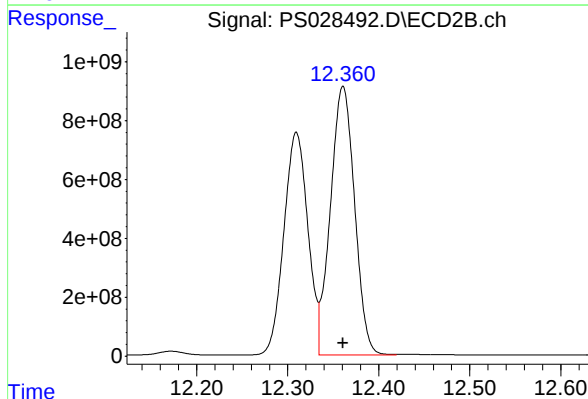
R.T.: 11.263 min
Delta R.T.: 0.000 min
Response: 7779569094
Conc: 1407.17 ng/ml



#15 Picloram

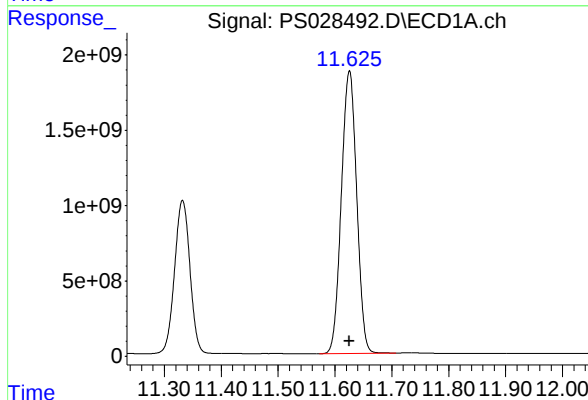
R.T.: 11.138 min
Delta R.T.: 0.000 min
Response: 39080748946
Conc: 1387.82 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



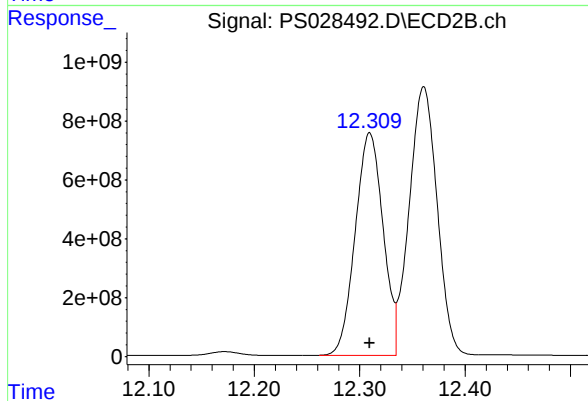
#15 Picloram

R.T.: 12.361 min
Delta R.T.: 0.000 min
Response: 16814686335
Conc: 1485.52 ng/ml



#16 DCPA

R.T.: 11.625 min
Delta R.T.: 0.000 min
Response: 35145338359
Conc: 1335.65 ng/ml



#16 DCPA

R.T.: 12.310 min
Delta R.T.: 0.000 min
Response: 13846563139
Conc: 1427.71 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
 Data File : PS028493.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 13 Nov 2024 13:48
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 146 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS111324

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 13 14:08:06 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.241	7.742	1917.4E6	986.2E6	750.208	763.126
Target Compounds							
1) T	Dalapon	2.636	2.695	2347.3E6	1694.9E6	698.714	700.401
2) T	3,5-DICHL...	6.411	6.694	2618.4E6	1377.4E6	701.738	712.771
3) T	4-Nitroph...	7.039	7.268	1163.4E6	593.6E6	684.990	687.530
5) T	DICAMBA	7.429	7.942	7882.6E6	4180.3E6	720.404	732.870
6) T	MCPD	7.612	8.045	526.4E6	313.7E6	74.832	72.943
7) T	MCPA	7.763	8.291	732.4E6	438.7E6	71.768	70.834
8) T	DICHLORPROP	8.138	8.658	2086.8E6	1049.8E6	707.054	718.787
9) T	2,4-D	8.369	8.989	2272.2E6	1124.4E6	710.729	718.231
10) T	Pentachlo...	8.669	9.519	31497.2E6	14862.8E6	754.677	741.459
11) T	2,4,5-TP ...	9.249	9.895	12626.4E6	6230.6E6	726.881	738.372
12) T	2,4,5-T	9.542	10.317	12933.5E6	6180.0E6	727.642	737.266
13) T	2,4-DB	10.118	10.883	1978.5E6	762.9E6	725.883	728.141
14) T	DINOSEB	11.333	11.263	10293.2E6	4022.7E6	721.934	727.635
15) T	Picloram	11.139	12.359	20846.4E6	8580.5E6	740.291	758.056
16) T	DCPA	11.626	12.309	19407.9E6	7248.6E6	737.567	747.402

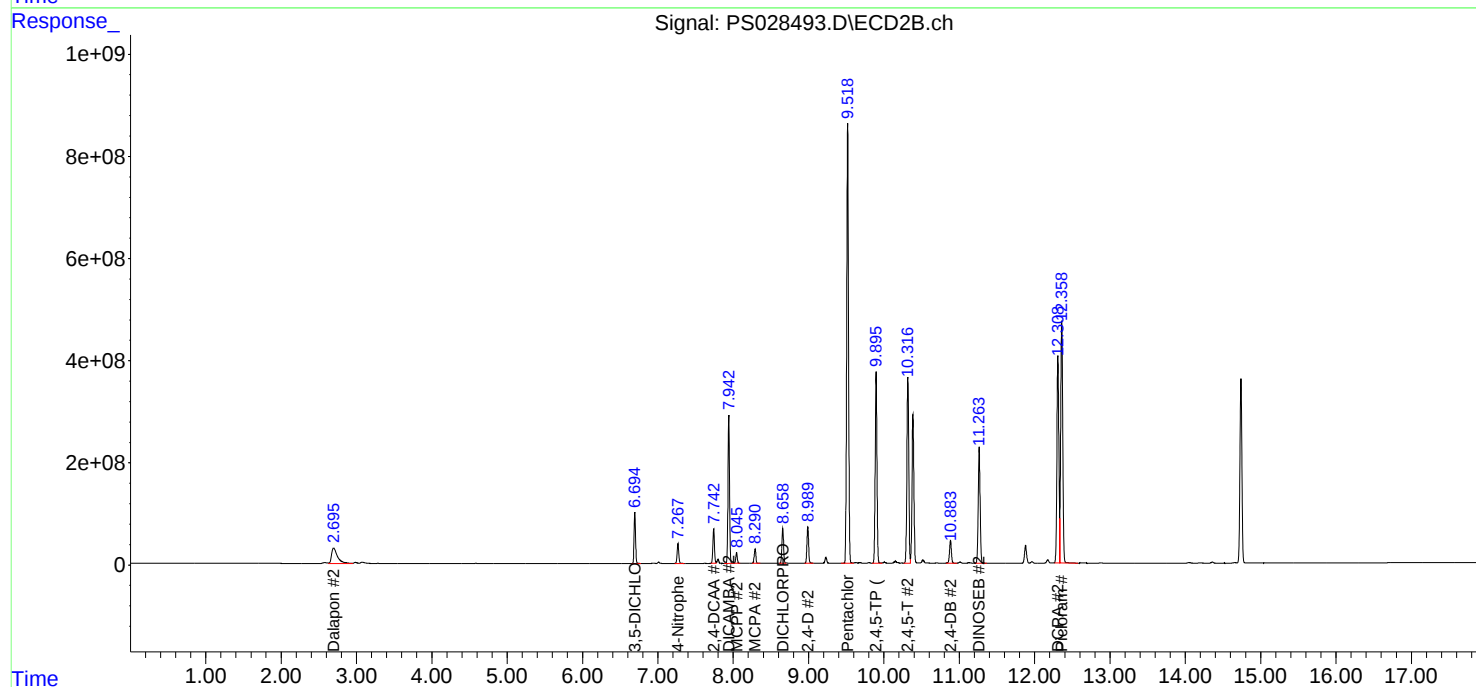
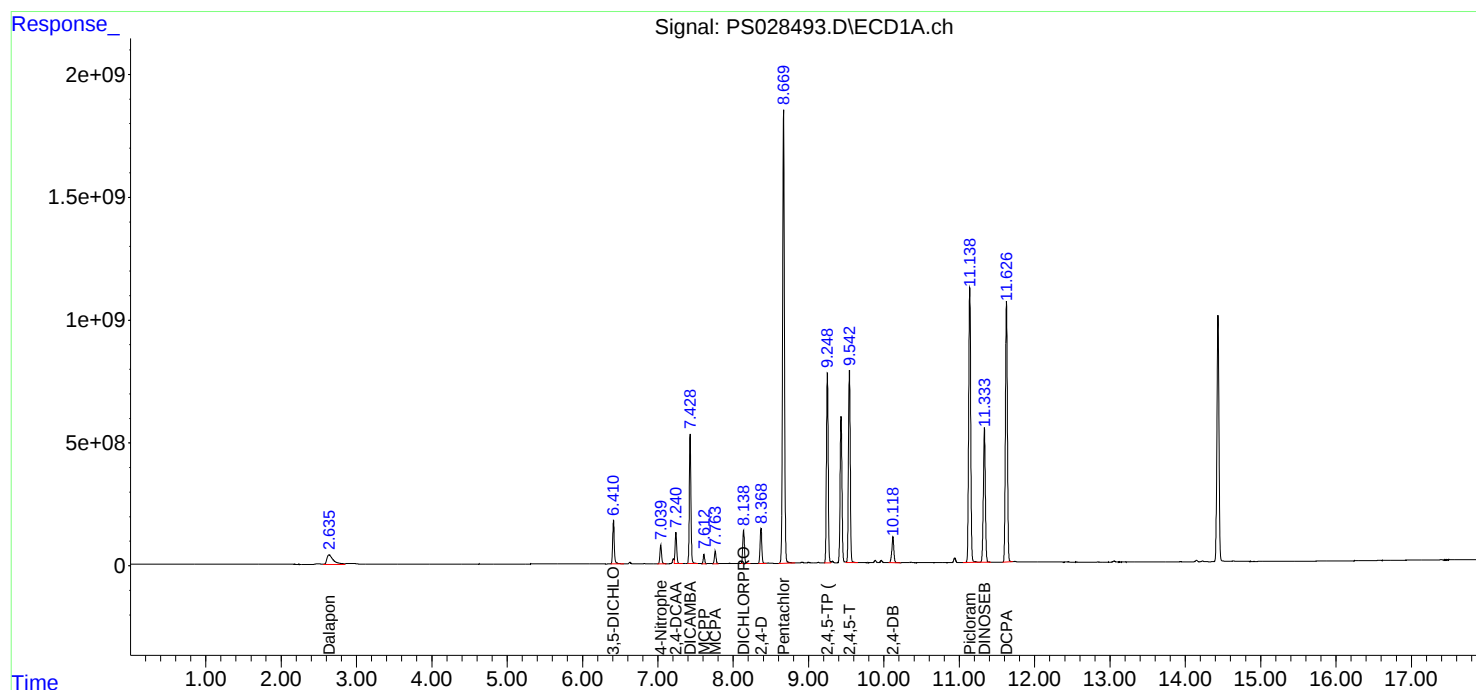
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

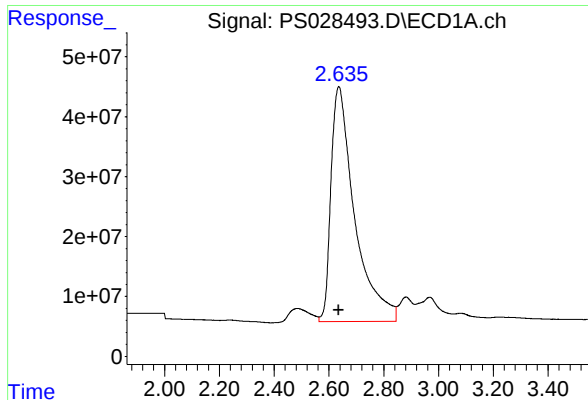
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
Data File : PS028493.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Nov 2024 13:48
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 146 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS111324

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 13 14:08:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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

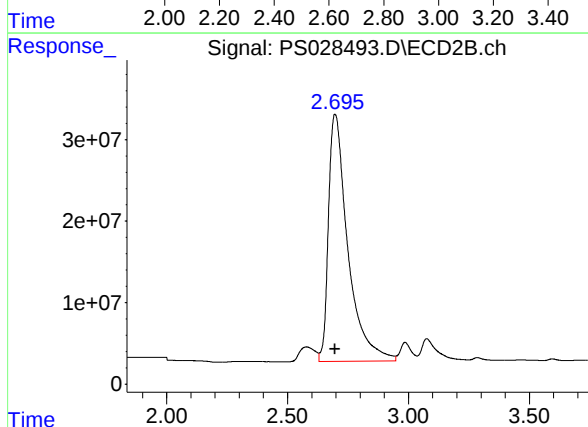




#1 Dalapon

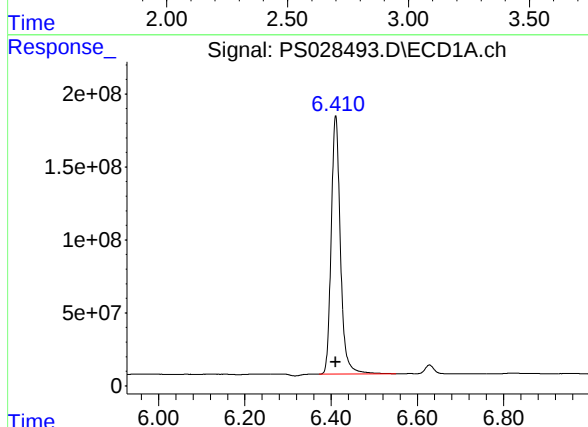
R.T.: 2.636 min
Delta R.T.: 0.001 min
Response: 2347308226
Conc: 698.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS111324



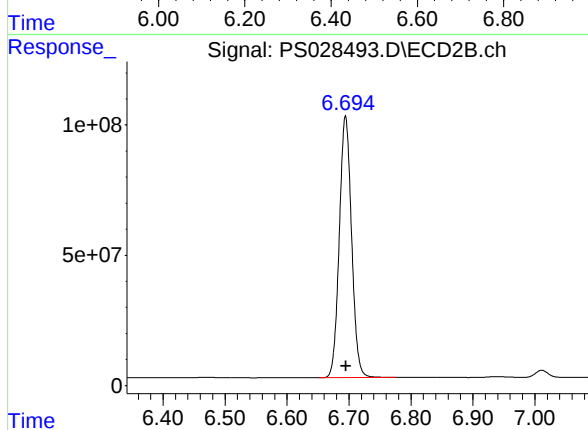
#1 Dalapon

R.T.: 2.695 min
Delta R.T.: -0.001 min
Response: 1694914540
Conc: 700.40 ng/ml



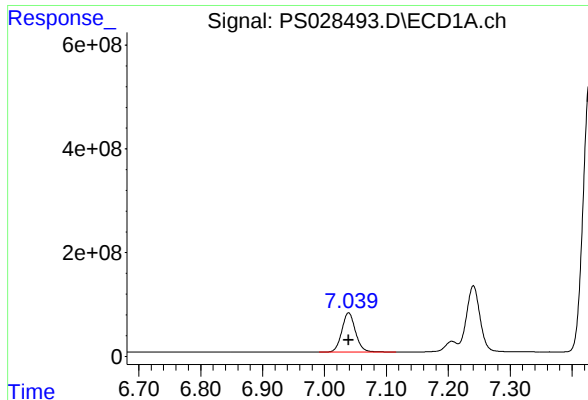
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.411 min
Delta R.T.: 0.000 min
Response: 2618392116
Conc: 701.74 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

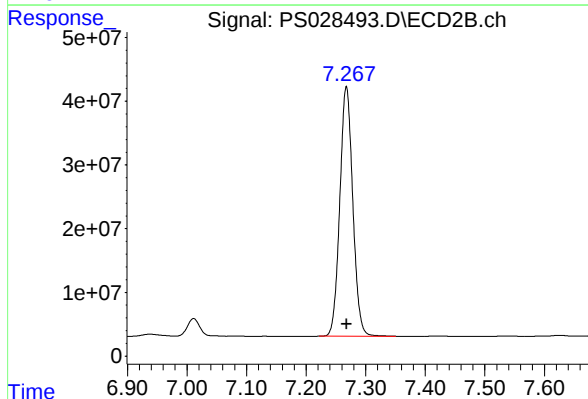
R.T.: 6.694 min
Delta R.T.: 0.000 min
Response: 1377359474
Conc: 712.77 ng/ml



#3 4-Nitrophenol

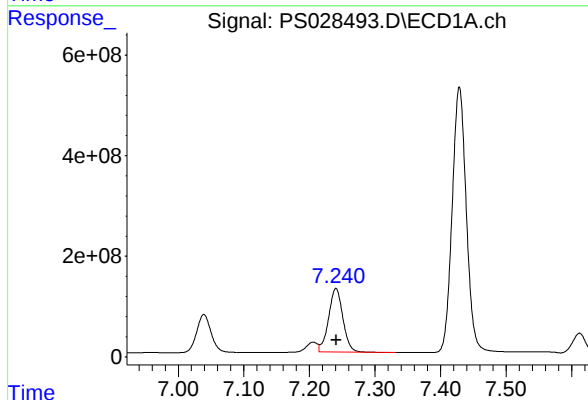
R.T.: 7.039 min
Delta R.T.: 0.000 min
Response: 1163421062
Conc: 684.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS111324



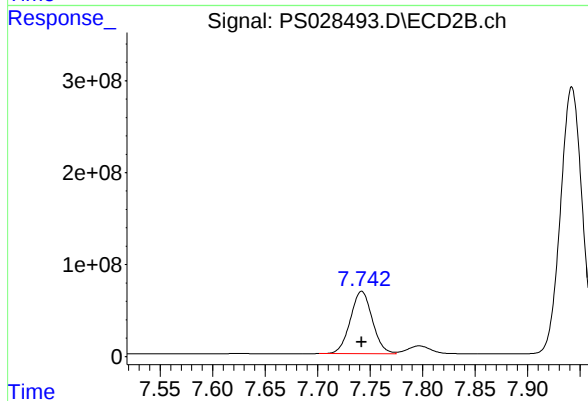
#3 4-Nitrophenol

R.T.: 7.268 min
Delta R.T.: 0.000 min
Response: 593609936
Conc: 687.53 ng/ml



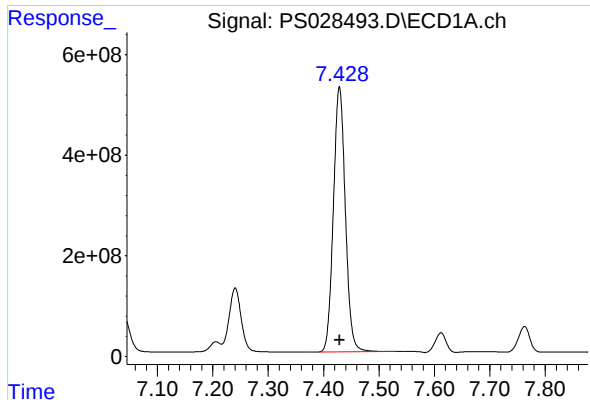
#4 2,4-DCAA

R.T.: 7.241 min
Delta R.T.: 0.000 min
Response: 1917443505
Conc: 750.21 ng/ml



#4 2,4-DCAA

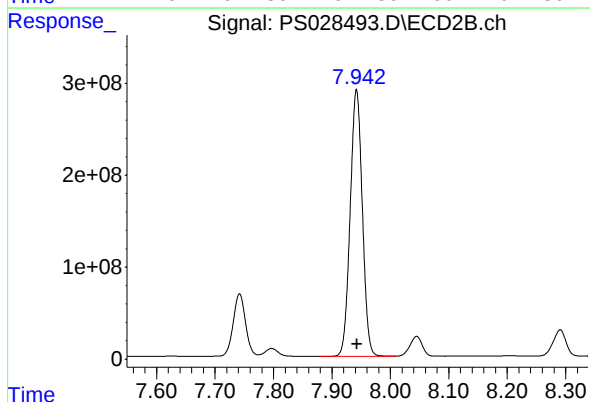
R.T.: 7.742 min
Delta R.T.: 0.000 min
Response: 986191049
Conc: 763.13 ng/ml



#5 DICAMBA

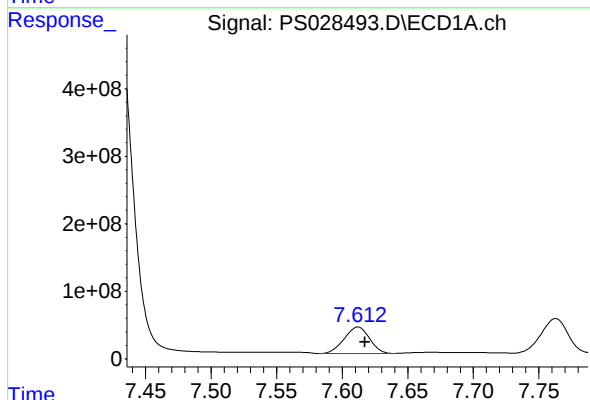
R.T.: 7.429 min
Delta R.T.: 0.000 min
Response: 7882644006
Conc: 720.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS111324



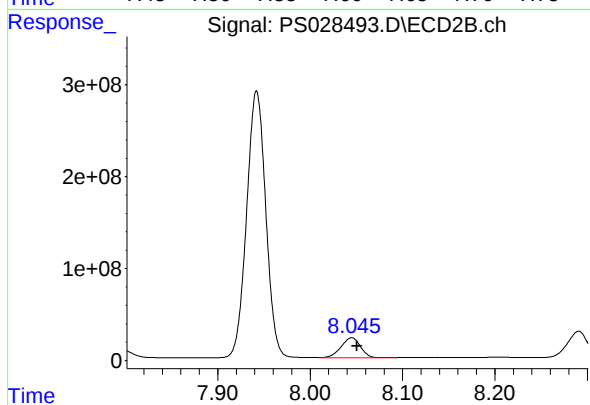
#5 DICAMBA

R.T.: 7.942 min
Delta R.T.: 0.000 min
Response: 4180344822
Conc: 732.87 ng/ml



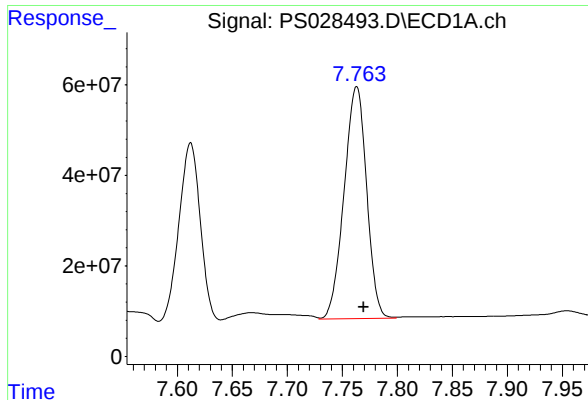
#6 MCPP

R.T.: 7.612 min
Delta R.T.: -0.005 min
Response: 526416458
Conc: 74.83 ug/ml



#6 MCPP

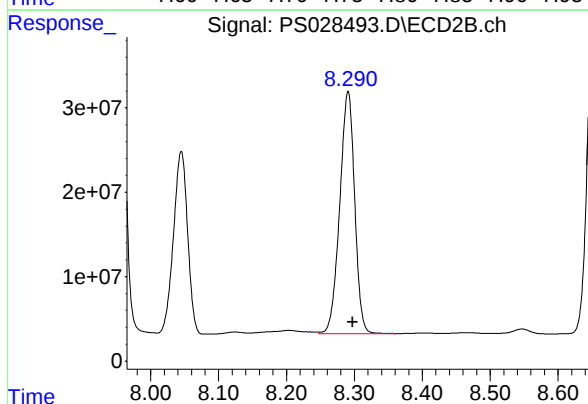
R.T.: 8.045 min
Delta R.T.: -0.006 min
Response: 313721438
Conc: 72.94 ug/ml



#7 MCPA

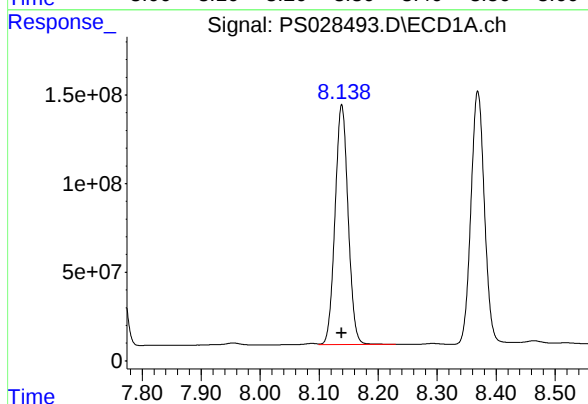
R.T.: 7.763 min
Delta R.T.: -0.006 min
Response: 732371825
Conc: 71.77 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS111324



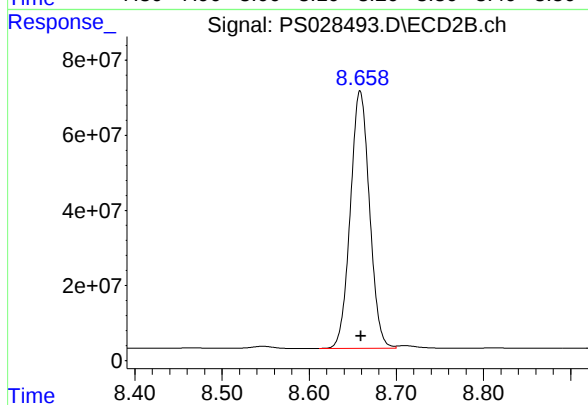
#7 MCPA

R.T.: 8.291 min
Delta R.T.: -0.007 min
Response: 438704001
Conc: 70.83 ug/ml



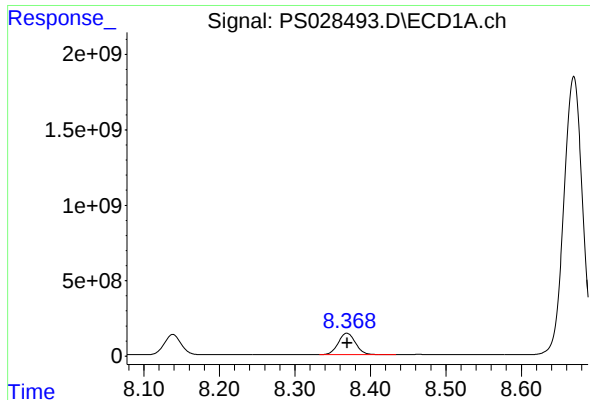
#8 DICHLORPROP

R.T.: 8.138 min
Delta R.T.: 0.000 min
Response: 2086771092
Conc: 707.05 ng/ml



#8 DICHLORPROP

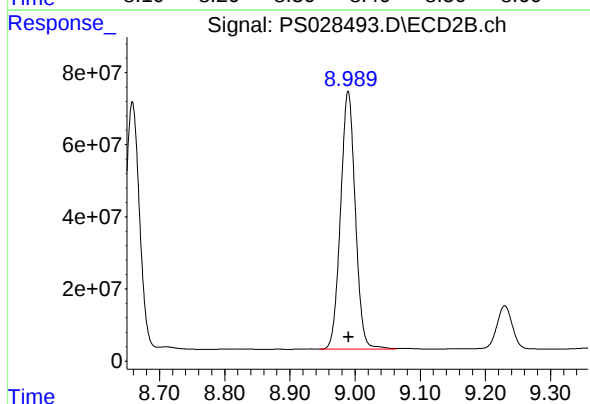
R.T.: 8.658 min
Delta R.T.: -0.001 min
Response: 1049837600
Conc: 718.79 ng/ml



#9 2,4-D

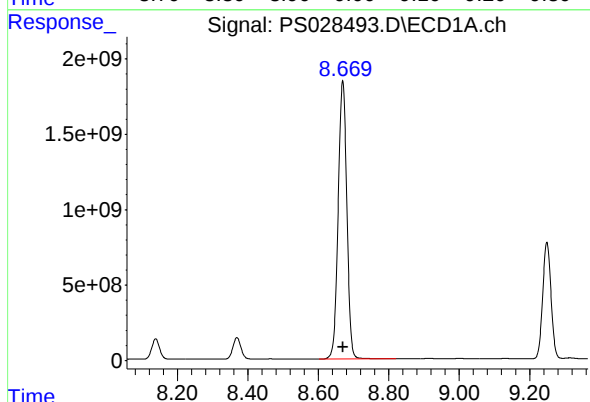
R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 2272150106
Conc: 710.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS111324



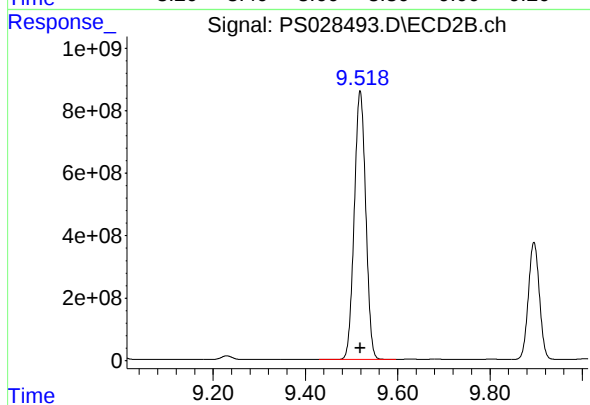
#9 2,4-D

R.T.: 8.989 min
Delta R.T.: 0.000 min
Response: 1124427061
Conc: 718.23 ng/ml



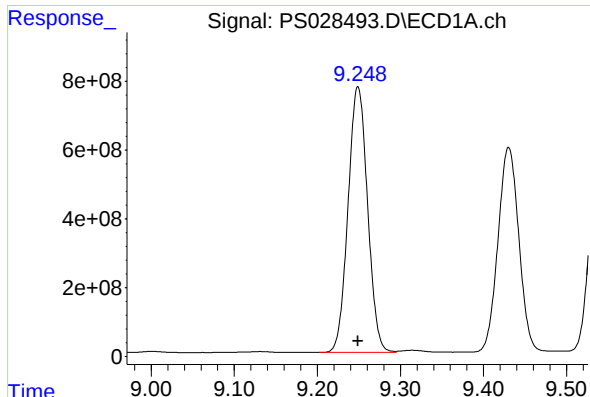
#10 Pentachlorophenol

R.T.: 8.669 min
Delta R.T.: -0.001 min
Response: 31497231237
Conc: 754.68 ng/ml



#10 Pentachlorophenol

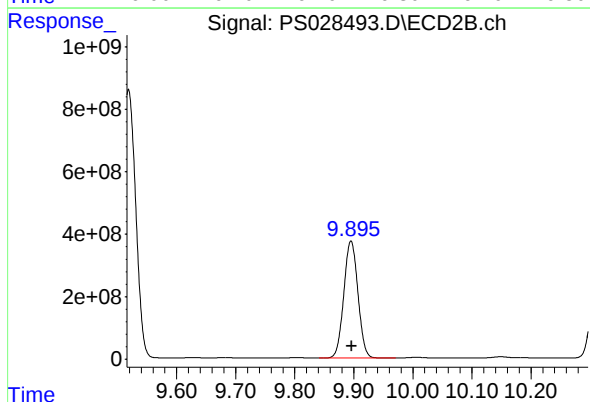
R.T.: 9.519 min
Delta R.T.: 0.000 min
Response: 14862795705
Conc: 741.46 ng/ml



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

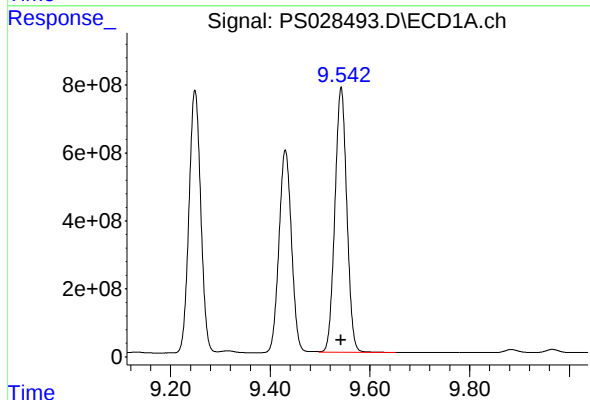
R.T.: 9.249 min
Delta R.T.: 0.000 min
Response: 12626434494
Conc: 726.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS111324



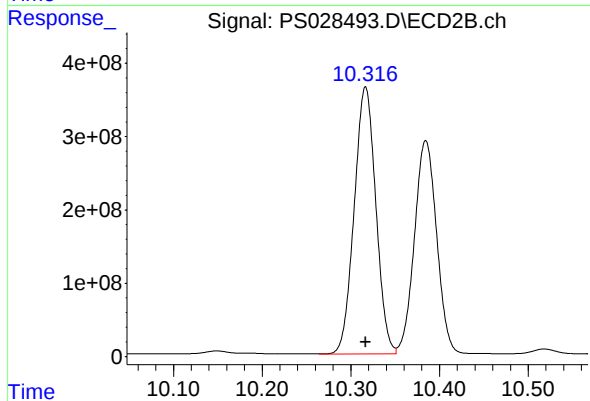
#11 2,4,5-TP (SILVEX)

R.T.: 9.895 min
Delta R.T.: -0.001 min
Response: 6230603350
Conc: 738.37 ng/ml



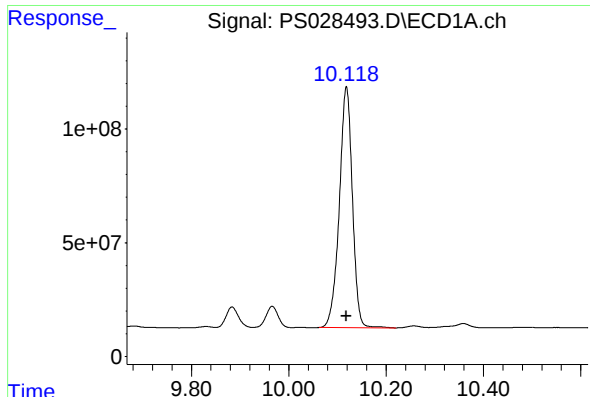
#12 2,4,5-T

R.T.: 9.542 min
Delta R.T.: 0.000 min
Response: 12933500937
Conc: 727.64 ng/ml



#12 2,4,5-T

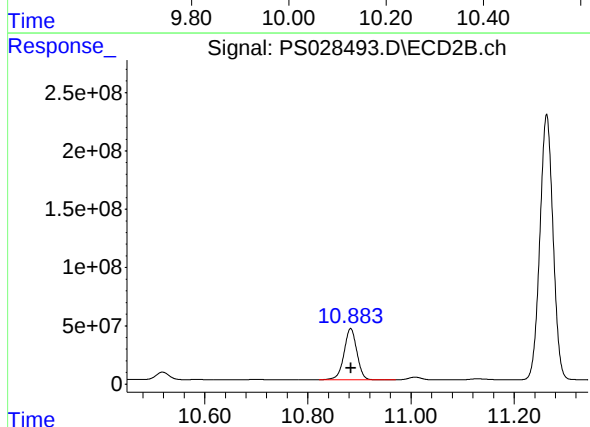
R.T.: 10.317 min
Delta R.T.: 0.000 min
Response: 6180027781
Conc: 737.27 ng/ml



#13 2,4-DB

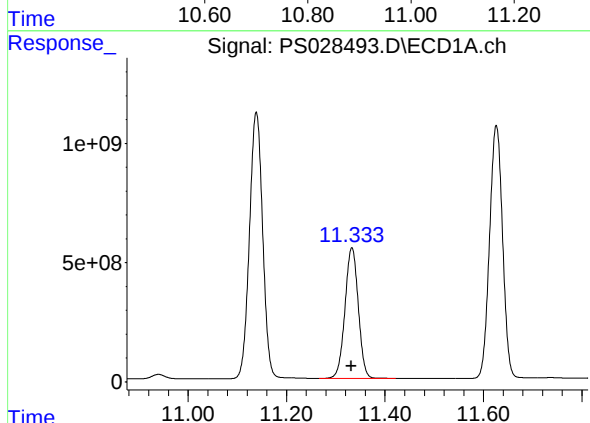
R.T.: 10.118 min
Delta R.T.: 0.000 min
Response: 1978480425
Conc: 725.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS111324



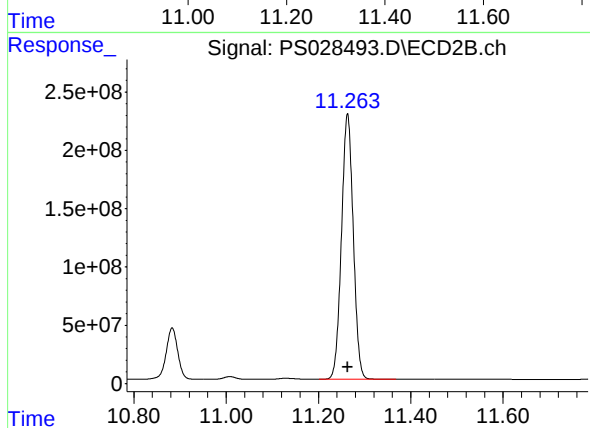
#13 2,4-DB

R.T.: 10.883 min
Delta R.T.: 0.000 min
Response: 762899994
Conc: 728.14 ng/ml



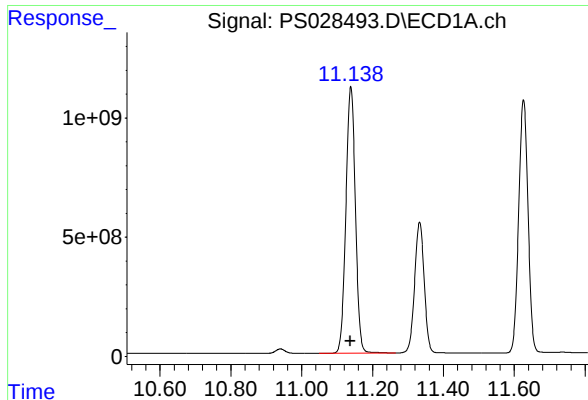
#14 DINOSEB

R.T.: 11.333 min
Delta R.T.: 0.000 min
Response: 10293168355
Conc: 721.93 ng/ml



#14 DINOSEB

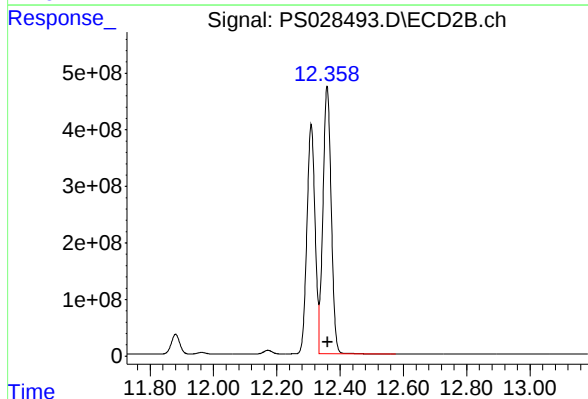
R.T.: 11.263 min
Delta R.T.: 0.000 min
Response: 4022729110
Conc: 727.63 ng/ml



#15 Picloram

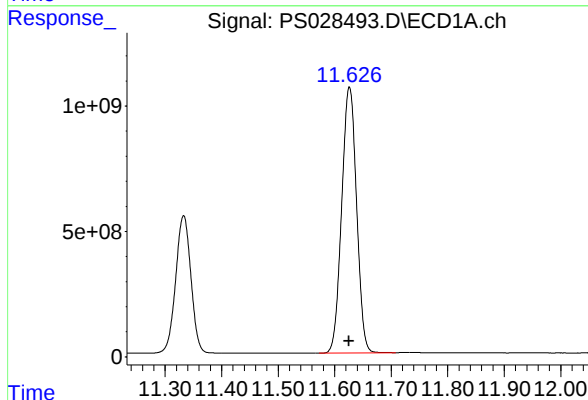
R.T.: 11.139 min
Delta R.T.: 0.000 min
Response: 20846418685
Conc: 740.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS111324



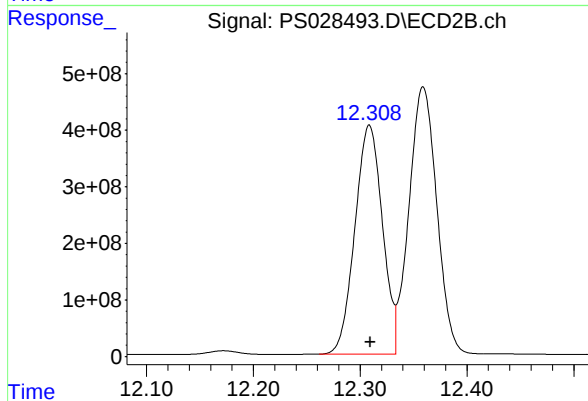
#15 Picloram

R.T.: 12.359 min
Delta R.T.: -0.002 min
Response: 8580460577
Conc: 758.06 ng/ml



#16 DCPA

R.T.: 11.626 min
Delta R.T.: 0.000 min
Response: 19407874990
Conc: 737.57 ng/ml



#16 DCPA

R.T.: 12.309 min
Delta R.T.: 0.000 min
Response: 7248626311
Conc: 747.40 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/14/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 12:02 Initial Calibration Time(s): 11:44 13:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.43	7.43	7.33	7.53	0.00
MCP	7.61	7.61	7.51	7.71	0.00
2,4-DCAA	7.24	7.24	7.14	7.34	0.00
Dalapon	2.63	2.64	2.54	2.74	0.01
MCPA	7.76	7.76	7.66	7.86	0.00
DICHLORPROP	8.14	8.14	8.04	8.24	0.00
2,4-D	8.37	8.37	8.27	8.47	0.00
2,4,5-TP(Silvex)	9.25	9.25	9.15	9.35	0.00
2,4,5-T	9.54	9.54	9.44	9.64	0.00
2,4-DB	10.12	10.12	10.02	10.22	0.00
Dinoseb	11.33	11.33	11.23	11.43	0.00
Pentachlorophenol	8.67	8.67	8.57	8.77	0.00
4-Nitrophenol	7.04	7.04	6.94	7.14	0.00
PICLORAM	11.14	11.14	11.04	11.24	0.00
DCPA	11.63	11.63	11.53	11.73	0.00
3,5-DICHLOROBENZ	6.41	6.41	6.31	6.51	0.00



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/14/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 12:02 Initial Calibration Time(s): 11:44 13:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.94	7.94	7.84	8.04	0.00
MCP	8.04	8.05	7.95	8.15	0.01
2,4-DCAA	7.74	7.74	7.64	7.84	0.00
Dalapon	2.69	2.70	2.60	2.80	0.01
MCPA	8.29	8.29	8.19	8.39	0.00
DICHLORPROP	8.66	8.66	8.56	8.76	0.00
2,4-D	8.99	8.99	8.89	9.09	0.00
2,4,5-TP(Silvex)	9.89	9.90	9.80	10.00	0.01
2,4,5-T	10.31	10.32	10.22	10.42	0.01
2,4-DB	10.88	10.88	10.78	10.98	0.00
Dinoseb	11.26	11.26	11.16	11.36	0.00
Pentachlorophenol	9.52	9.52	9.42	9.62	0.00
4-Nitrophenol	7.27	7.27	7.17	7.37	0.00
PICLORAM	12.36	12.36	12.26	12.46	0.00
DCPA	12.31	12.31	12.21	12.41	0.00
3,5-DICHLOROBENZ	6.69	6.70	6.60	6.80	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL01 Date Analyzed: 11/14/2024

Lab Sample No.: HSTDCCC750 Data File : PS028534.D Time Analyzed: 12:02

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.543	9.443	9.643	755.870	712.500	6.1
2,4,5-TP(Silvex)	9.249	9.150	9.350	759.220	712.500	6.6
2,4-D	8.369	8.270	8.470	736.520	705.000	4.5
2,4-DB	10.118	10.019	10.219	773.480	712.500	8.6
2,4-DCAA	7.240	7.141	7.341	762.420	750.000	1.7
3,5-DICHLOROBENZOIC ACID	6.410	6.311	6.511	713.710	697.500	2.3
4-Nitrophenol	7.039	6.939	7.139	678.040	682.500	-0.7
Dalapon	2.634	2.539	2.739	656.070	682.500	-3.9
DCPA	11.625	11.526	11.726	700.890	720.000	-2.7
DICAMBA	7.428	7.329	7.529	751.910	705.000	6.7
DICHLORPROP	8.138	8.039	8.239	707.800	705.000	0.4
Dinoseb	11.332	11.233	11.433	756.040	705.000	7.2
MCPA	7.762	7.663	7.863	74.130	69.750	6.3
MCPP	7.612	7.512	7.712	80.190	70.500	13.7
Pentachlorophenol	8.669	8.570	8.770	793.700	712.500	11.4
PICLORAM	11.138	11.039	11.239	722.400	712.500	1.4



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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL01 Date Analyzed: 11/14/2024

Lab Sample No.: HSTDCCC750 Data File : PS028534.D Time Analyzed: 12:02

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.314	10.216	10.416	759.140	712.500	6.5
2,4,5-TP(Silvex)	9.893	9.796	9.996	766.920	712.500	7.6
2,4-D	8.987	8.890	9.090	744.150	705.000	5.6
2,4-DB	10.882	10.784	10.984	752.580	712.500	5.6
2,4-DCAA	7.740	7.642	7.842	765.530	750.000	2.1
3,5-DICHLOROBENZOIC ACID	6.693	6.595	6.795	713.760	697.500	2.3
4-Nitrophenol	7.266	7.168	7.368	675.750	682.500	-1.0
Dalapon	2.693	2.599	2.799	630.950	682.500	-7.6
DCPA	12.306	12.208	12.408	694.870	720.000	-3.5
DICAMBA	7.940	7.842	8.042	758.700	705.000	7.6
DICHLORPROP	8.657	8.559	8.759	722.790	705.000	2.5
Dinoseb	11.261	11.163	11.363	752.810	705.000	6.8
MCPA	8.288	8.191	8.391	71.570	69.750	2.6
MCPP	8.043	7.945	8.145	76.500	70.500	8.5
Pentachlorophenol	9.516	9.419	9.619	777.580	712.500	9.1
PICLORAM	12.357	12.260	12.460	730.530	712.500	2.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111424\
 Data File : PS028534.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Nov 2024 12:02
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 15 00:19:03 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.240	7.740	1948.7E6	989.3E6	762.419	765.526
Target Compounds							
1) T	Dalapon	2.634	2.693	2204.1E6	1526.8E6	656.071	630.947
2) T	3,5-DICHL...	6.410	6.693	2663.1E6	1379.3E6	713.710	713.760
3) T	4-Nitroph...	7.039	7.266	1151.6E6	583.4E6	678.039	675.751
5) T	DICAMBA	7.428	7.940	8227.4E6	4327.7E6	751.914	758.698
6) T	MCPD	7.612	8.043	564.1E6	329.0E6	80.195	76.501
7) T	MCPA	7.762	8.288	756.5E6	443.2E6	74.135	71.567
8) T	DICHLORPROP	8.138	8.657	2089.0E6	1055.7E6	707.800	722.792
9) T	2,4-D	8.369	8.987	2354.6E6	1165.0E6	736.519	744.151
10) T	Pentachlo...	8.669	9.516	33125.7E6	15586.8E6	793.697	777.579
11) T	2,4,5-TP ...	9.249	9.893	13188.2E6	6471.5E6	759.220	766.920
12) T	2,4,5-T	9.543	10.314	13435.2E6	6363.3E6	755.865	759.135
13) T	2,4-DB	10.118	10.882	2108.2E6	788.5E6	773.481	752.577
14) T	DINOSEB	11.332	11.261	10779.4E6	4161.9E6	756.040	752.813
15) T	Picloram	11.138	12.357	20342.6E6	8268.9E6	722.399	730.530
16) T	DCPA	11.625	12.306	18442.8E6	6739.2E6	700.891	694.871

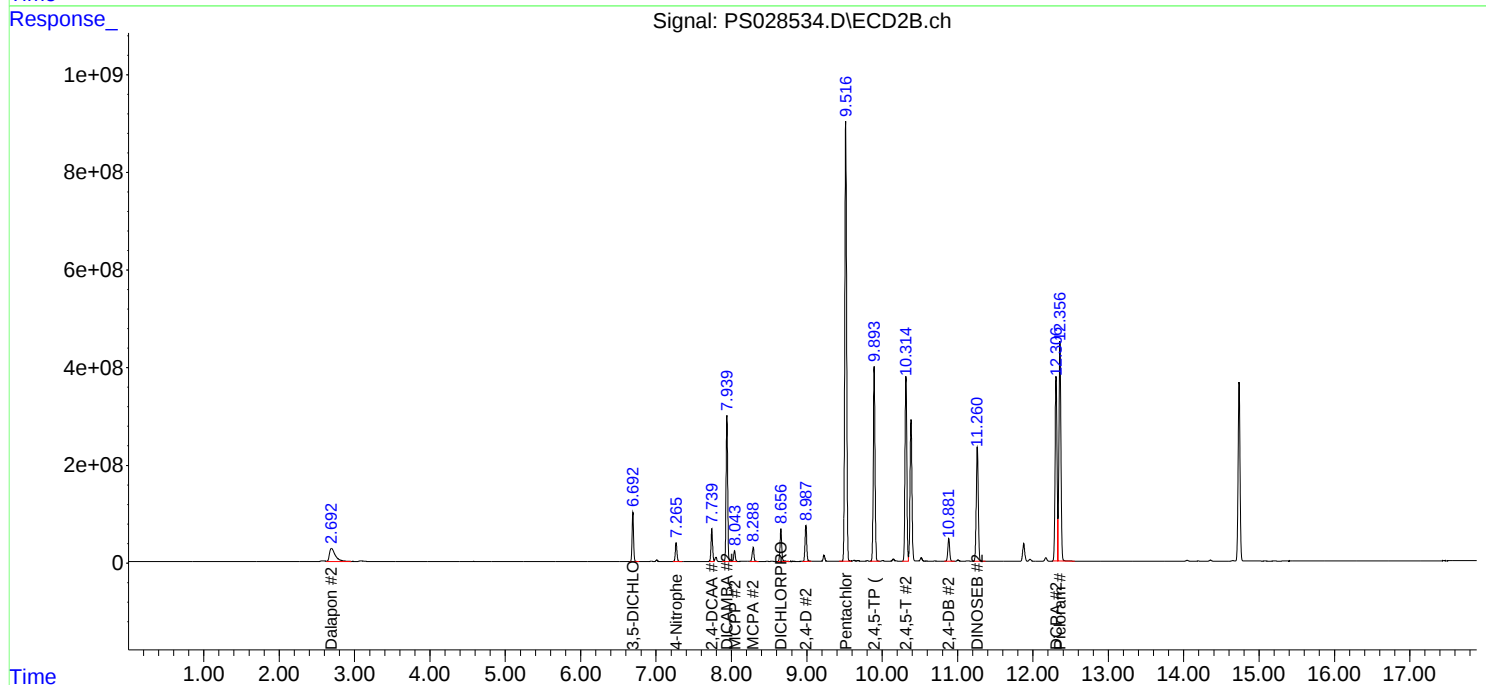
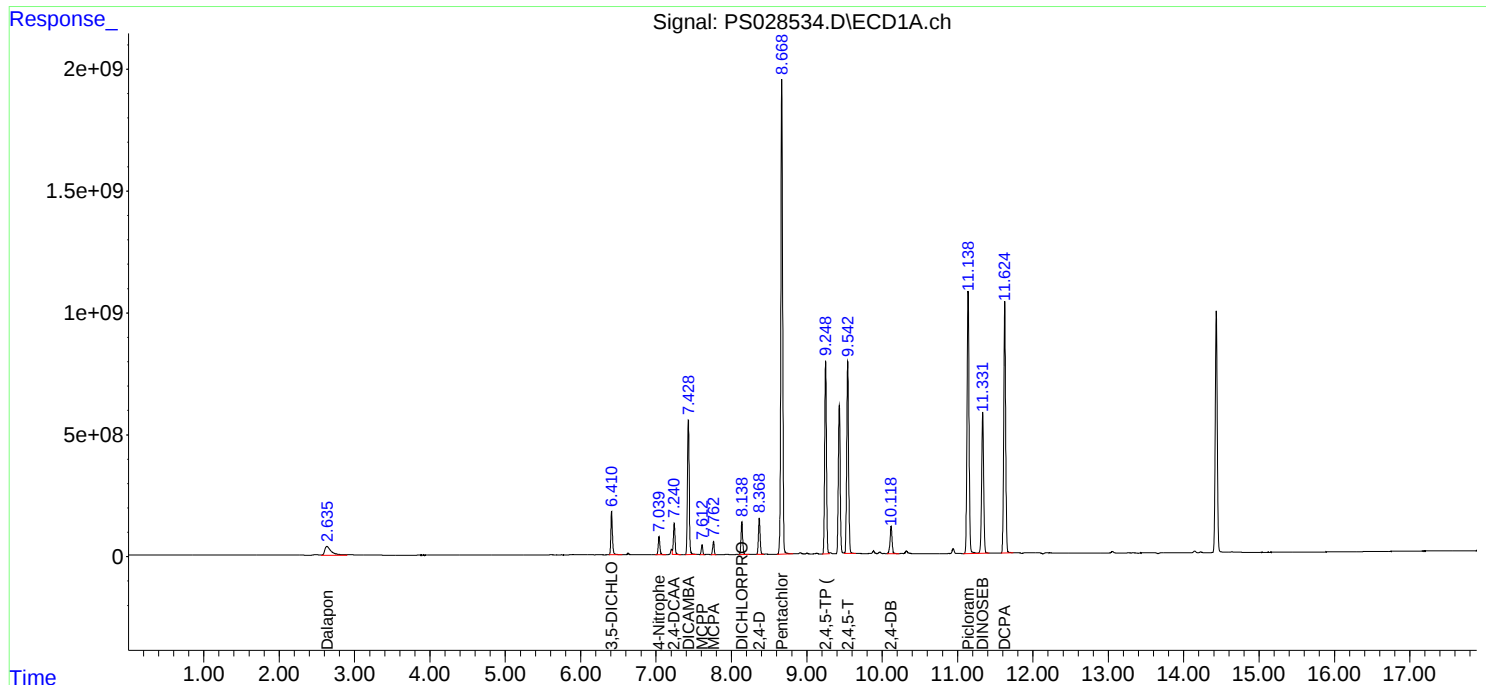
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

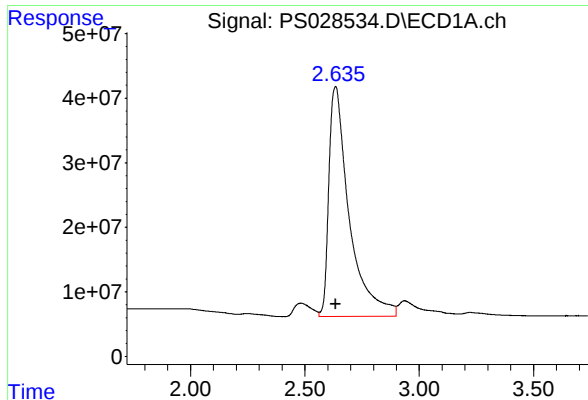
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111424\
Data File : PS028534.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Nov 2024 12:02
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 15 00:19:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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

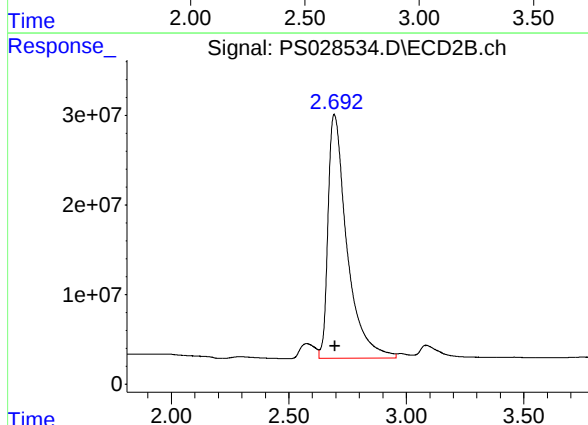




#1 Dalapon

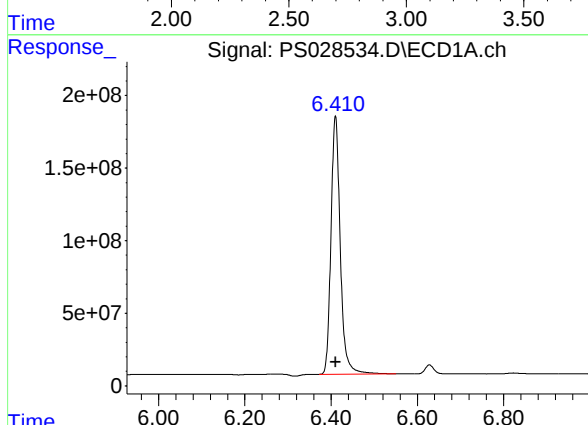
R.T.: 2.634 min
Delta R.T.: 0.000 min
Response: 2204050045
Conc: 656.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



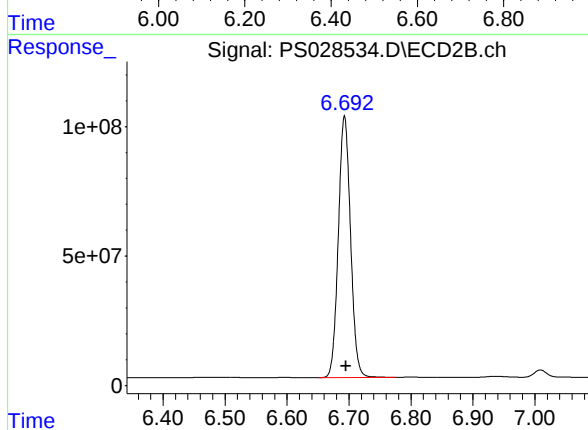
#1 Dalapon

R.T.: 2.693 min
Delta R.T.: -0.004 min
Response: 1526842635
Conc: 630.95 ng/ml



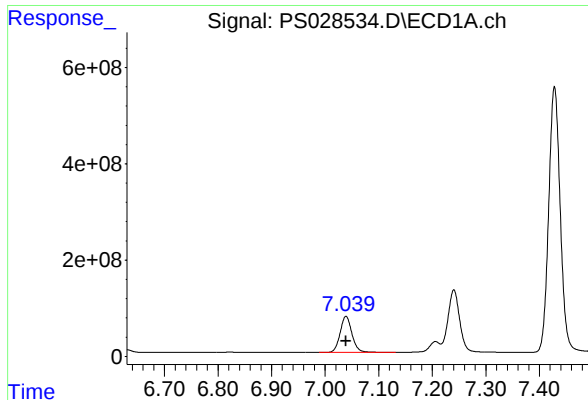
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.410 min
Delta R.T.: 0.000 min
Response: 2663064356
Conc: 713.71 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

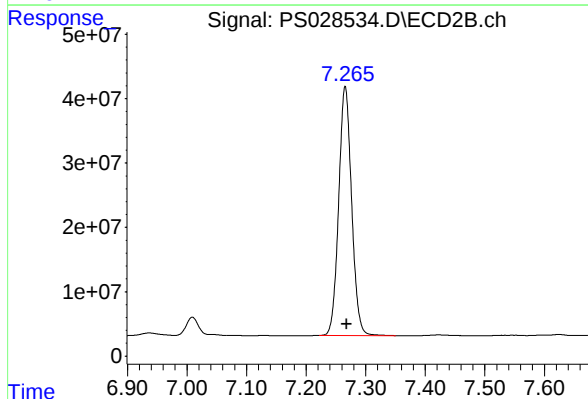
R.T.: 6.693 min
Delta R.T.: -0.002 min
Response: 1379270536
Conc: 713.76 ng/ml



#3 4-Nitrophenol

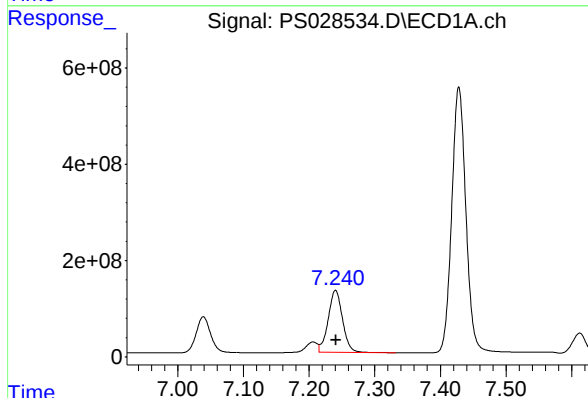
R.T.: 7.039 min
Delta R.T.: 0.000 min
Response: 1151615415
Conc: 678.04 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



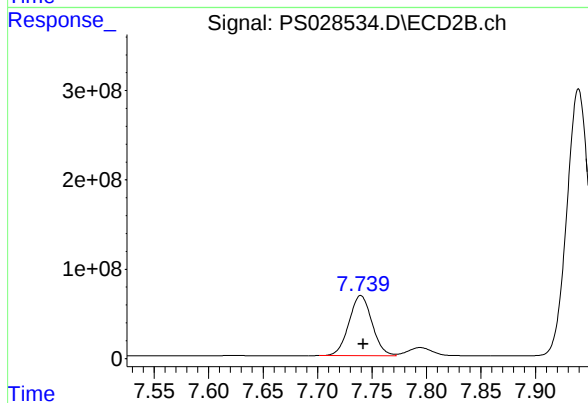
#3 4-Nitrophenol

R.T.: 7.266 min
Delta R.T.: -0.002 min
Response: 583439377
Conc: 675.75 ng/ml



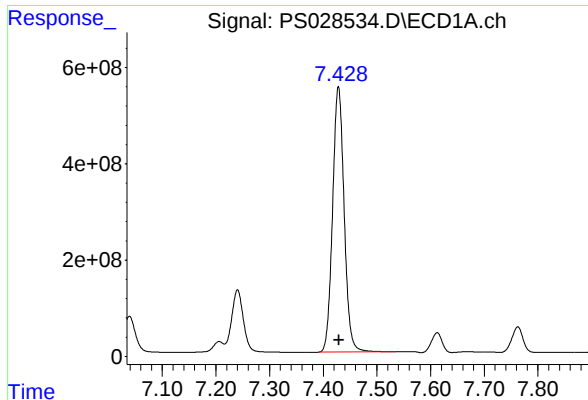
#4 2,4-DCAA

R.T.: 7.240 min
Delta R.T.: 0.000 min
Response: 1948653533
Conc: 762.42 ng/ml



#4 2,4-DCAA

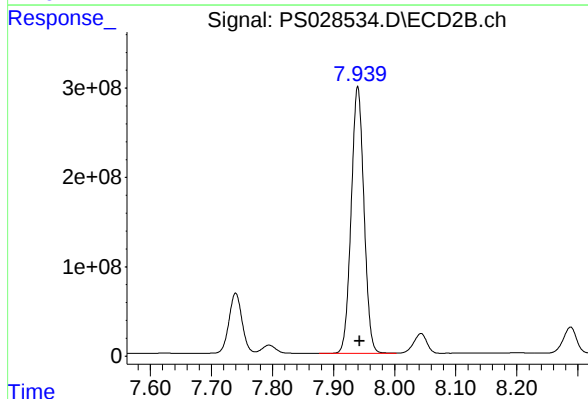
R.T.: 7.740 min
Delta R.T.: -0.002 min
Response: 989293459
Conc: 765.53 ng/ml



#5 DICAMBA

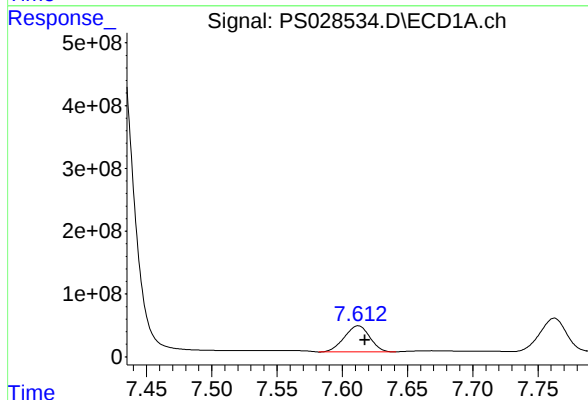
R.T.: 7.428 min
Delta R.T.: 0.000 min
Response: 8227426539
Conc: 751.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



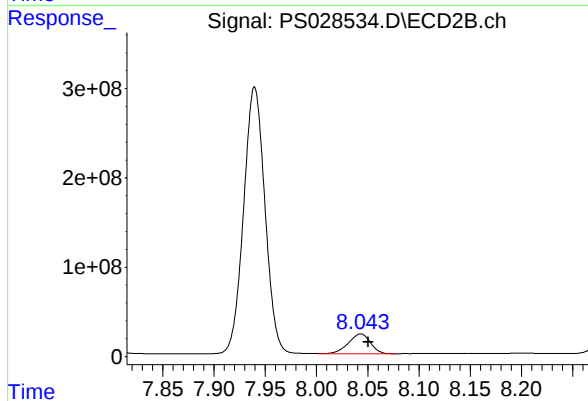
#5 DICAMBA

R.T.: 7.940 min
Delta R.T.: -0.003 min
Response: 4327669808
Conc: 758.70 ng/ml



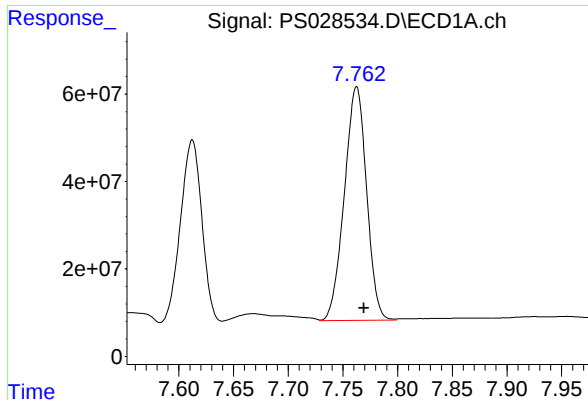
#6 MCPP

R.T.: 7.612 min
Delta R.T.: -0.005 min
Response: 564144802
Conc: 80.19 ug/ml



#6 MCPP

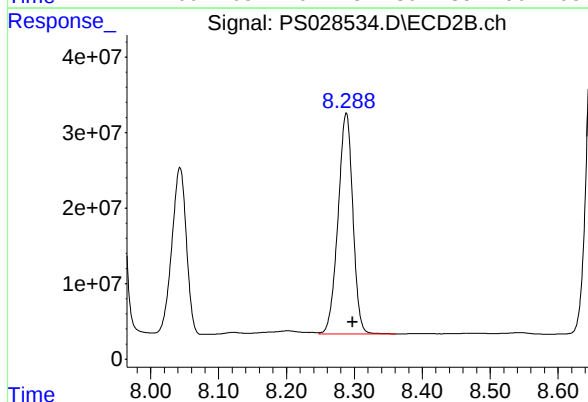
R.T.: 8.043 min
Delta R.T.: -0.008 min
Response: 329024764
Conc: 76.50 ug/ml



#7 MCPA

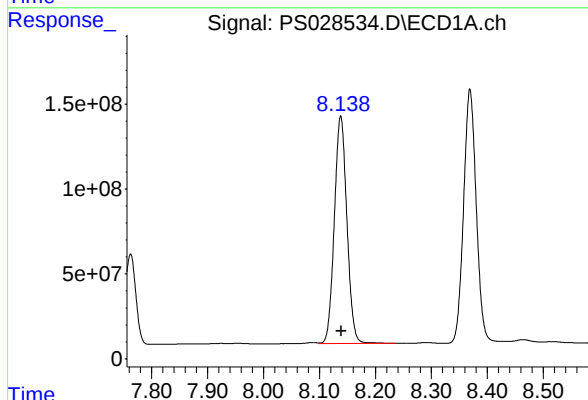
R.T.: 7.762 min
Delta R.T.: -0.007 min
Response: 756523807
Conc: 74.13 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



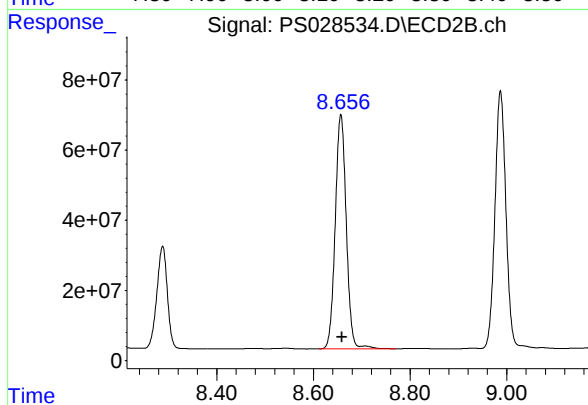
#7 MCPA

R.T.: 8.288 min
Delta R.T.: -0.009 min
Response: 443246095
Conc: 71.57 ug/ml



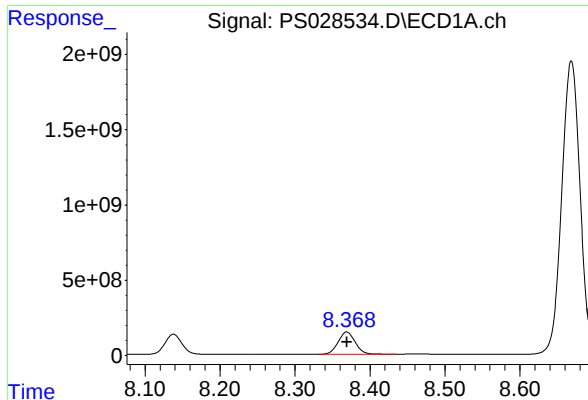
#8 DICHLORPROP

R.T.: 8.138 min
Delta R.T.: 0.000 min
Response: 2088972199
Conc: 707.80 ng/ml



#8 DICHLORPROP

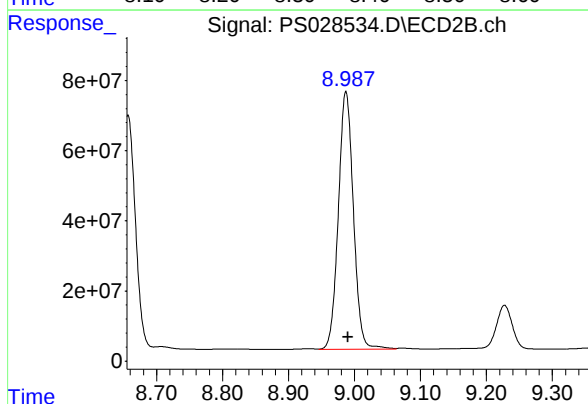
R.T.: 8.657 min
Delta R.T.: -0.003 min
Response: 1055686721
Conc: 722.79 ng/ml



#9 2,4-D

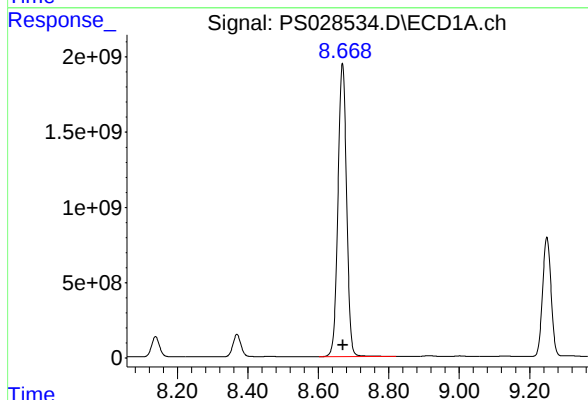
R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 2354598045
Conc: 736.52 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



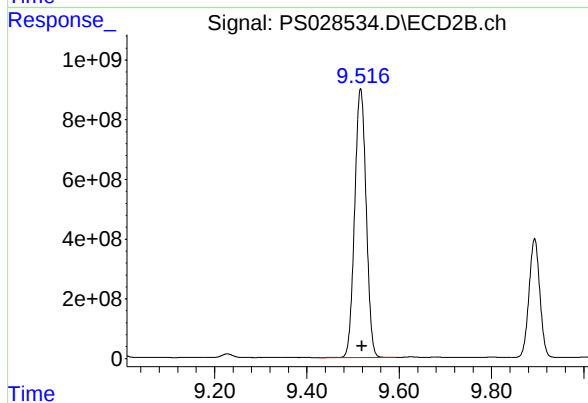
#9 2,4-D

R.T.: 8.987 min
Delta R.T.: -0.003 min
Response: 1165007058
Conc: 744.15 ng/ml



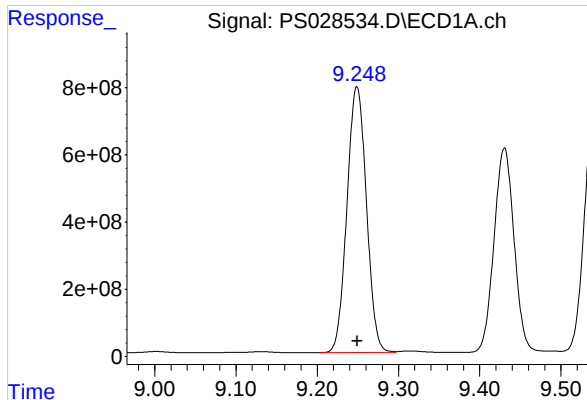
#10 Pentachlorophenol

R.T.: 8.669 min
Delta R.T.: -0.002 min
Response: 33125749733
Conc: 793.70 ng/ml



#10 Pentachlorophenol

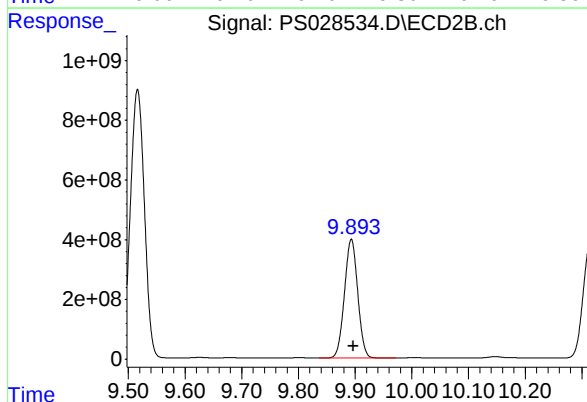
R.T.: 9.516 min
Delta R.T.: -0.003 min
Response: 15586839403
Conc: 777.58 ng/ml



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

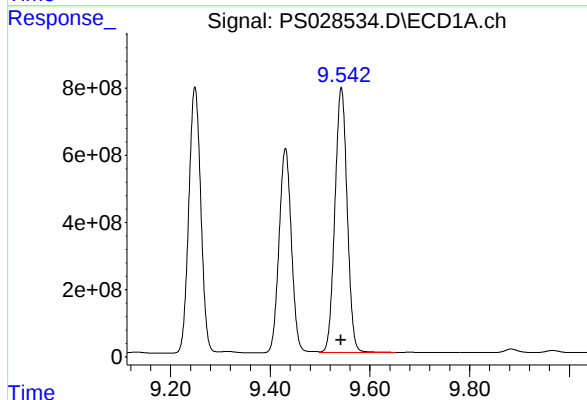
R.T.: 9.249 min
Delta R.T.: 0.000 min
Response: 13188188961
Conc: 759.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



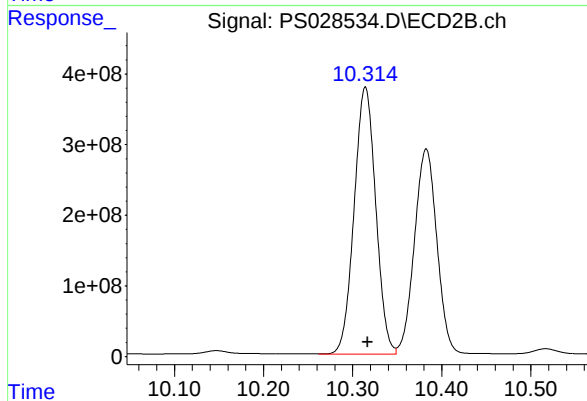
#11 2,4,5-TP (SILVEX)

R.T.: 9.893 min
Delta R.T.: -0.003 min
Response: 6471500803
Conc: 766.92 ng/ml



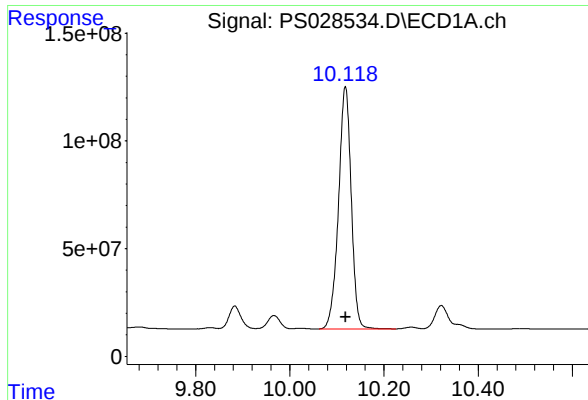
#12 2,4,5-T

R.T.: 9.543 min
Delta R.T.: 0.000 min
Response: 13435153053
Conc: 755.87 ng/ml



#12 2,4,5-T

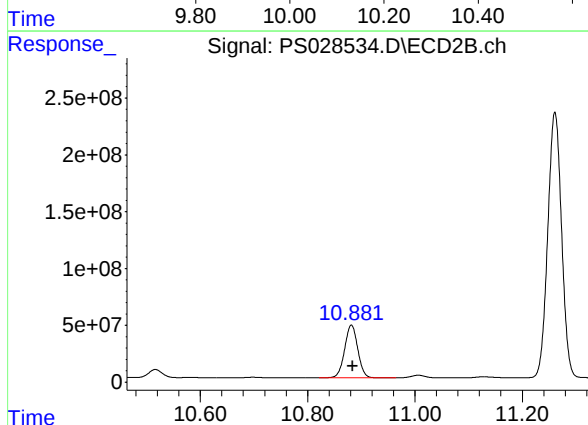
R.T.: 10.314 min
Delta R.T.: -0.003 min
Response: 6363344042
Conc: 759.14 ng/ml



#13 2,4-DB

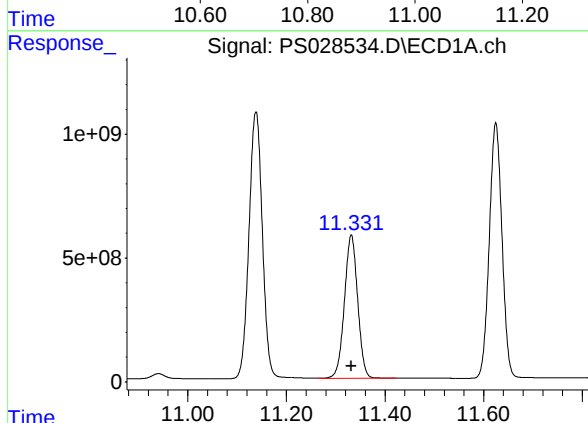
R.T.: 10.118 min
Delta R.T.: 0.000 min
Response: 2108216333
Conc: 773.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



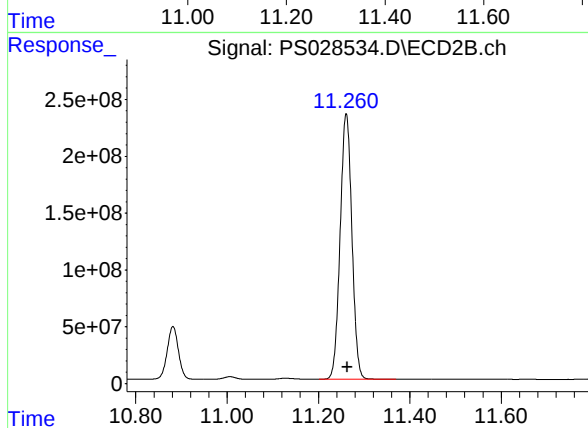
#13 2,4-DB

R.T.: 10.882 min
Delta R.T.: -0.002 min
Response: 788502616
Conc: 752.58 ng/ml



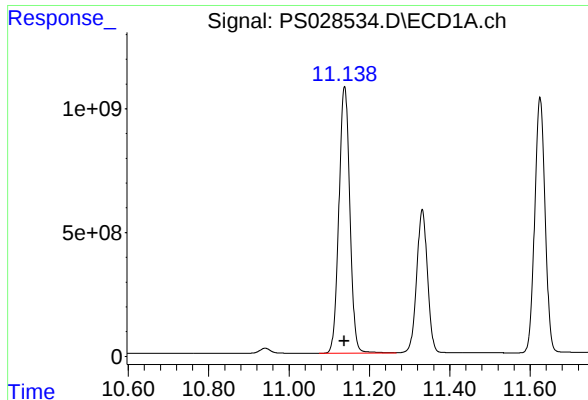
#14 DINOSEB

R.T.: 11.332 min
Delta R.T.: 0.000 min
Response: 10779439910
Conc: 756.04 ng/ml



#14 DINOSEB

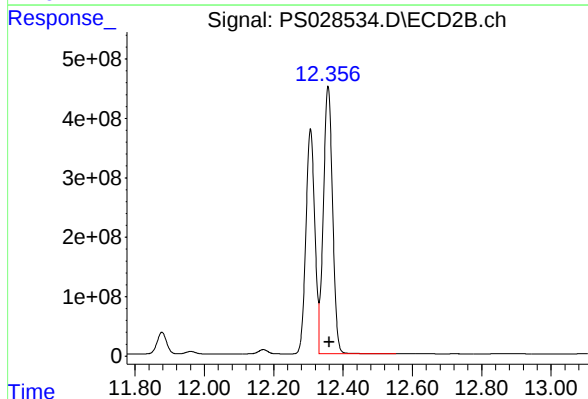
R.T.: 11.261 min
Delta R.T.: -0.003 min
Response: 4161930185
Conc: 752.81 ng/ml



#15 Picloram

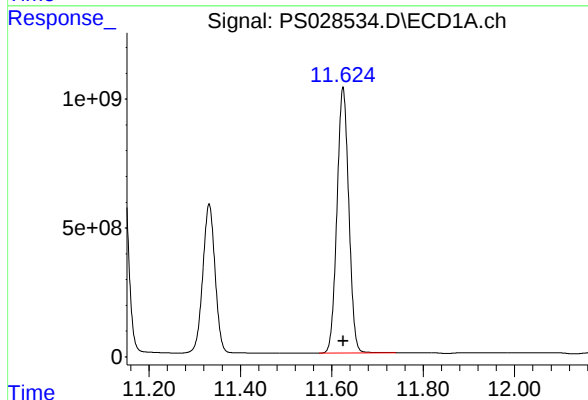
R.T.: 11.138 min
Delta R.T.: 0.000 min
Response: 20342567664
Conc: 722.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



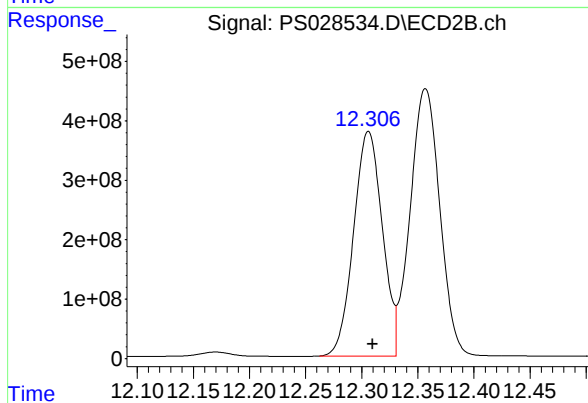
#15 Picloram

R.T.: 12.357 min
Delta R.T.: -0.004 min
Response: 8268897373
Conc: 730.53 ng/ml



#16 DCPA

R.T.: 11.625 min
Delta R.T.: 0.000 min
Response: 18442802275
Conc: 700.89 ng/ml



#16 DCPA

R.T.: 12.306 min
Delta R.T.: -0.004 min
Response: 6739156516
Conc: 694.87 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/14/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 20:40 Initial Calibration Time(s): 11:44 13:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.43	7.43	7.33	7.53	0.00
MCP	7.61	7.61	7.51	7.71	0.00
2,4-DCAA	7.24	7.24	7.14	7.34	0.00
Dalapon	2.63	2.64	2.54	2.74	0.01
MCPA	7.76	7.76	7.66	7.86	0.00
DICHLORPROP	8.14	8.14	8.04	8.24	0.00
2,4-D	8.37	8.37	8.27	8.47	0.00
2,4,5-TP(Silvex)	9.25	9.25	9.15	9.35	0.00
2,4,5-T	9.54	9.54	9.44	9.64	0.00
2,4-DB	10.12	10.12	10.02	10.22	0.00
Dinoseb	11.33	11.33	11.23	11.43	0.00
Pentachlorophenol	8.67	8.67	8.57	8.77	0.00
4-Nitrophenol	7.04	7.04	6.94	7.14	0.00
PICLORAM	11.14	11.14	11.04	11.24	0.00
DCPA	11.62	11.63	11.53	11.73	0.01
3,5-DICHLOROBENZ	6.41	6.41	6.31	6.51	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/14/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 20:40 Initial Calibration Time(s): 11:44 13:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.94	7.94	7.84	8.04	0.00
MCP	8.04	8.05	7.95	8.15	0.01
2,4-DCAA	7.74	7.74	7.64	7.84	0.00
Dalapon	2.69	2.70	2.60	2.80	0.01
MCPA	8.29	8.29	8.19	8.39	0.00
DICHLORPROP	8.66	8.66	8.56	8.76	0.01
2,4-D	8.99	8.99	8.89	9.09	0.00
2,4,5-TP(Silvex)	9.89	9.90	9.80	10.00	0.01
2,4,5-T	10.31	10.32	10.22	10.42	0.01
2,4-DB	10.88	10.88	10.78	10.98	0.00
Dinoseb	11.26	11.26	11.16	11.36	0.00
Pentachlorophenol	9.52	9.52	9.42	9.62	0.00
4-Nitrophenol	7.27	7.27	7.17	7.37	0.01
PICLORAM	12.36	12.36	12.26	12.46	0.00
DCPA	12.31	12.31	12.21	12.41	0.00
3,5-DICHLOROBENZ	6.69	6.70	6.60	6.80	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL02 Date Analyzed: 11/14/2024

Lab Sample No.: HSTDCCC750 Data File : PS028545.D Time Analyzed: 20:40

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.541	9.443	9.643	770.840	712.500	8.2
2,4,5-TP(Silvex)	9.248	9.150	9.350	775.590	712.500	8.9
2,4-D	8.368	8.270	8.470	754.130	705.000	7.0
2,4-DB	10.117	10.019	10.219	792.690	712.500	11.3
2,4-DCAA	7.239	7.141	7.341	779.080	750.000	3.9
3,5-DICHLOROBENZOIC ACID	6.410	6.311	6.511	728.310	697.500	4.4
4-Nitrophenol	7.038	6.939	7.139	690.420	682.500	1.2
Dalapon	2.633	2.539	2.739	671.270	682.500	-1.6
DCPA	11.624	11.526	11.726	718.820	720.000	-0.2
DICAMBA	7.427	7.329	7.529	767.520	705.000	8.9
DICHLORPROP	8.137	8.039	8.239	724.010	705.000	2.7
Dinoseb	11.330	11.233	11.433	777.230	705.000	10.2
MCPA	7.761	7.663	7.863	75.310	69.750	8.0
MCPP	7.611	7.512	7.712	80.840	70.500	14.7
Pentachlorophenol	8.668	8.570	8.770	809.590	712.500	13.6
PICLORAM	11.137	11.039	11.239	729.270	712.500	2.4



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL02 Date Analyzed: 11/14/2024

Lab Sample No.: HSTDCCC750 Data File : PS028545.D Time Analyzed: 20:40

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.313	10.216	10.416	771.980	712.500	8.3
2,4,5-TP(Silvex)	9.892	9.796	9.996	780.280	712.500	9.5
2,4-D	8.986	8.890	9.090	757.930	705.000	7.5
2,4-DB	10.880	10.784	10.984	763.510	712.500	7.2
2,4-DCAA	7.739	7.642	7.842	775.870	750.000	3.4
3,5-DICHLOROBENZOIC ACID	6.692	6.595	6.795	723.600	697.500	3.7
4-Nitrophenol	7.265	7.168	7.368	688.130	682.500	0.8
Dalapon	2.694	2.599	2.799	645.900	682.500	-5.4
DCPA	12.305	12.208	12.408	702.620	720.000	-2.4
DICAMBA	7.939	7.842	8.042	772.000	705.000	9.5
DICHLORPROP	8.655	8.559	8.759	727.180	705.000	3.1
Dinoseb	11.260	11.163	11.363	770.740	705.000	9.3
MCPA	8.287	8.191	8.391	72.210	69.750	3.5
MCPP	8.042	7.945	8.145	77.010	70.500	9.2
Pentachlorophenol	9.516	9.419	9.619	791.850	712.500	11.1
PICLORAM	12.356	12.260	12.460	735.290	712.500	3.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111424\
 Data File : PS028545.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Nov 2024 20:40
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/15/2024

Supervised By :Ankita Jodhani 11/15/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 15 00:08:31 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
4) S 2,4-DCAA	7.239	7.739	1991.2E6	1002.7E6	779.081	775.870
Target Compounds						
1) T Dalapon	2.633	2.694	2255.1E6	1563.0E6	671.274	645.896
2) T 3,5-DICHL...	6.410	6.692	2717.6E6	1398.3E6	728.313	723.601
3) T 4-Nitroph...	7.038	7.265	1172.6E6	594.1E6	690.418	688.132
5) T DICAMBA	7.427	7.939	8398.2E6	4403.5E6	767.522	771.998
6) T MCPP	7.611	8.042	568.7E6	331.2E6	80.837m	77.013
7) T MCPA	7.761	8.287	768.5E6	447.2E6	75.309	72.208
8) T DICHLORPROP	8.137	8.655	2136.8E6	1062.1E6	724.009	727.178
9) T 2,4-D	8.368	8.986	2410.9E6	1186.6E6	754.131	757.933
10) T Pentachlo...	8.668	9.516	33788.9E6	15873.0E6	809.587	791.852
11) T 2,4,5-TP ...	9.248	9.892	13472.6E6	6584.2E6	775.593	780.281
12) T 2,4,5-T	9.541	10.313	13701.3E6	6471.0E6	770.836	771.981
13) T 2,4-DB	10.117	10.880	2160.6E6	800.0E6	792.694	763.513
14) T DINOSEB	11.330	11.260	11081.6E6	4261.1E6	777.232	770.744
15) T Picloram	11.137	12.356	20536.0E6	8322.7E6	729.268	735.285
16) T DCPA	11.624	12.305	18914.6E6	6814.3E6	718.822	702.618

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111424\
 Data File : PS028545.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Nov 2024 20:40
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

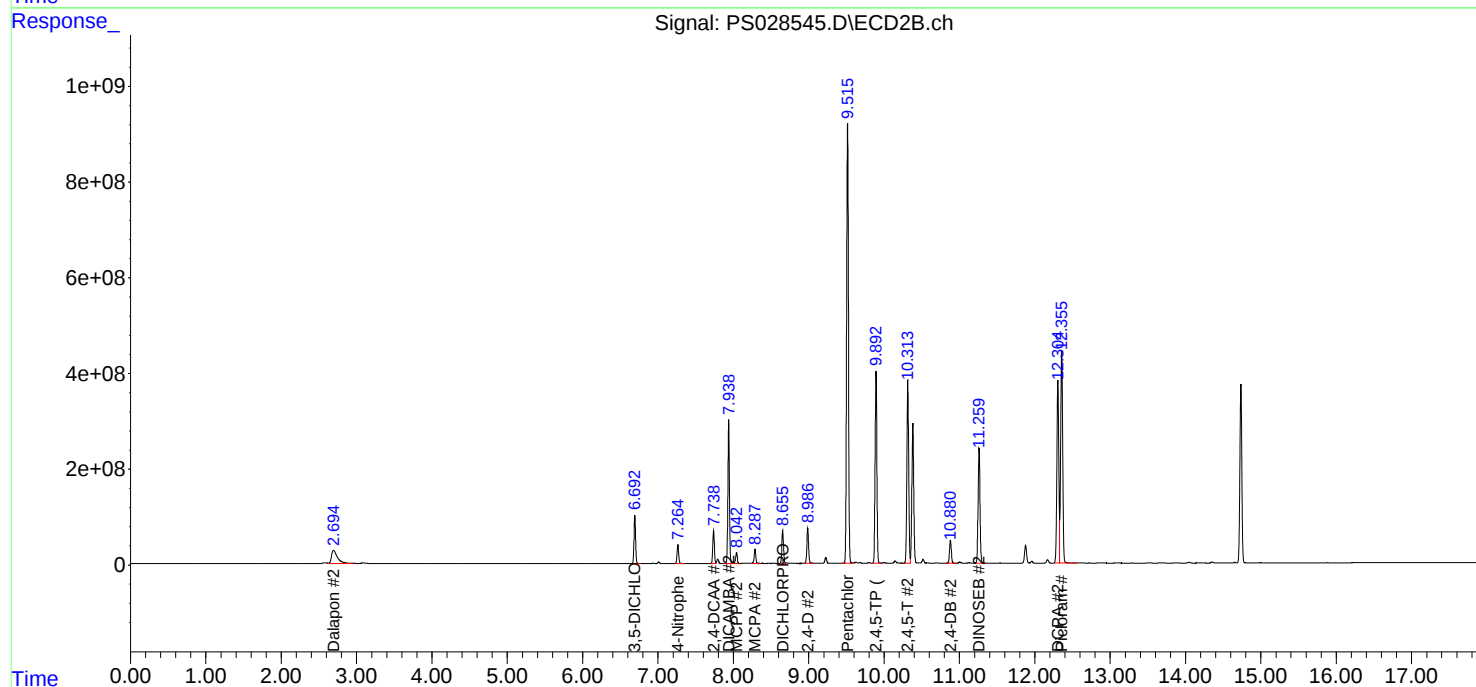
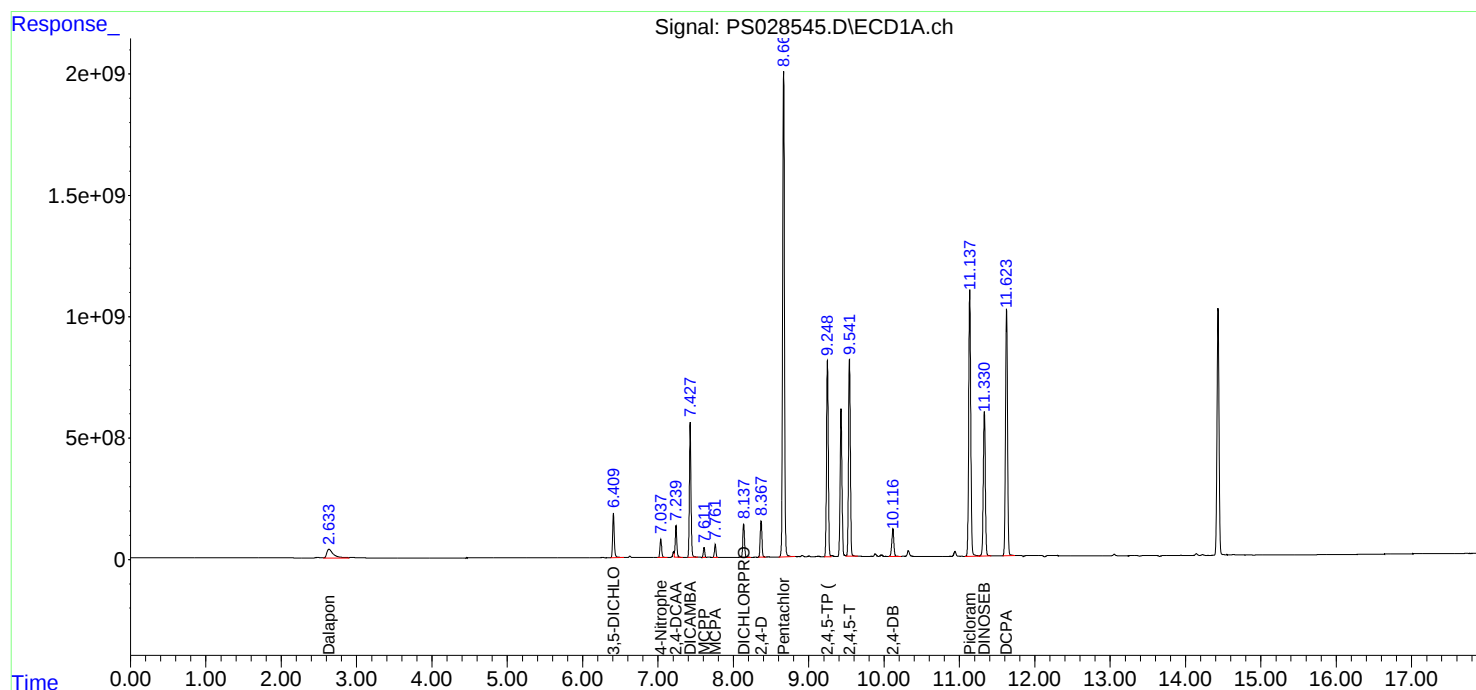
Manual Integrations**APPROVED**

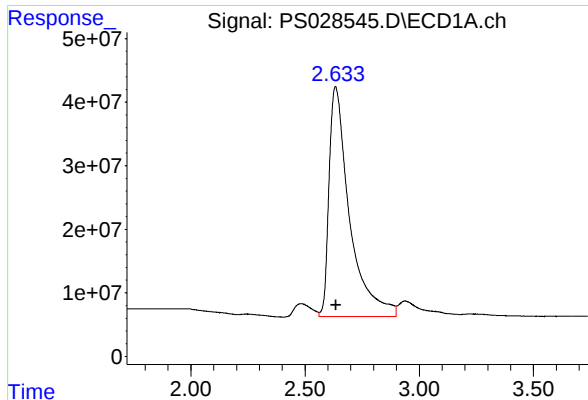
Reviewed By :Yogesh Patel 11/15/2024

Supervised By :Ankita Jodhani 11/15/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 15 00:08:31 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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





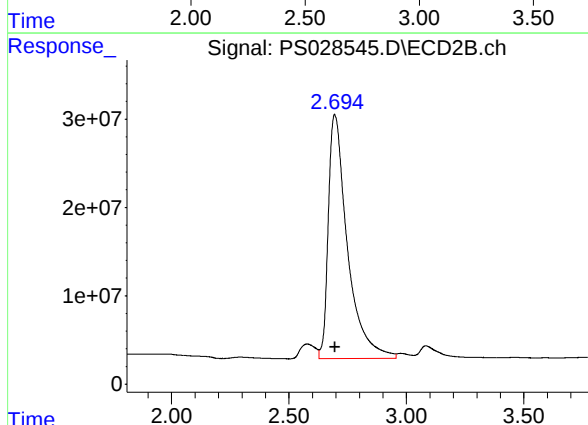
#1 Dalapon

R.T.: 2.633 min
Delta R.T.: -0.002 min
Response: 2255124164
Conc: 671.27 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

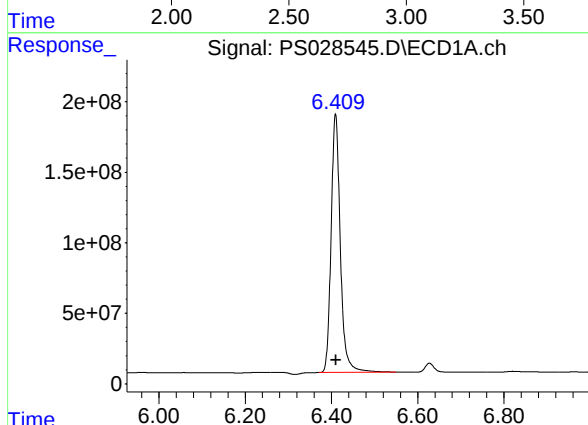
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



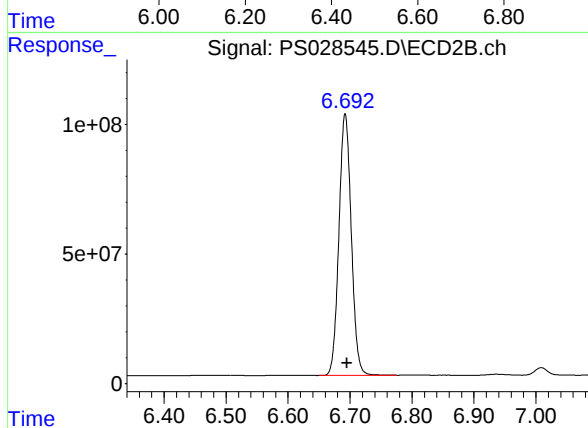
#1 Dalapon

R.T.: 2.694 min
Delta R.T.: -0.003 min
Response: 1563016707
Conc: 645.90 ng/ml



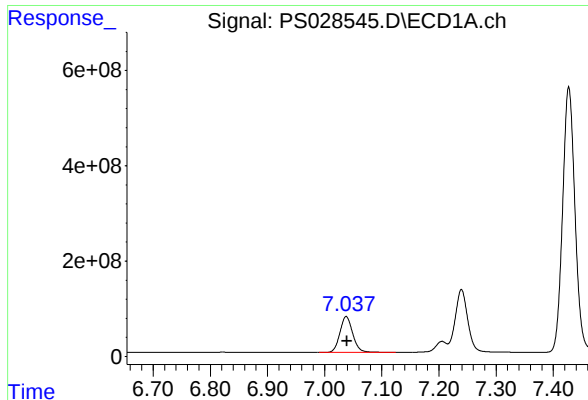
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.410 min
Delta R.T.: 0.000 min
Response: 2717553728
Conc: 728.31 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.692 min
Delta R.T.: -0.003 min
Response: 1398288339
Conc: 723.60 ng/ml



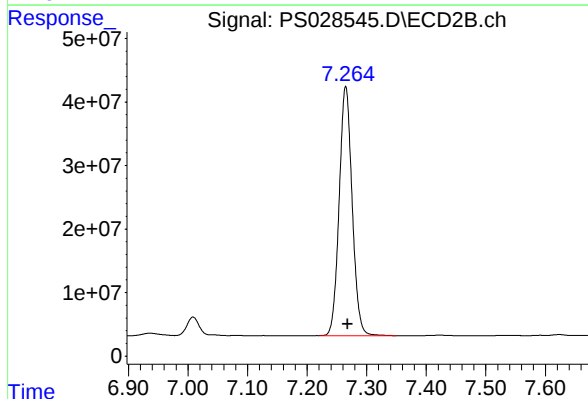
#3 4-Nitrophenol

R.T.: 7.038 min
Delta R.T.: -0.001 min
Response: 1172639746
Conc: 690.42 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

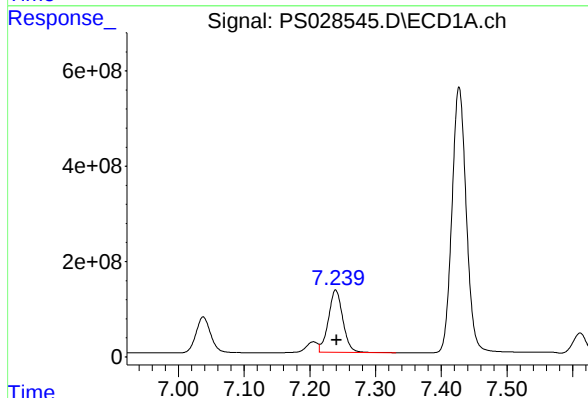
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



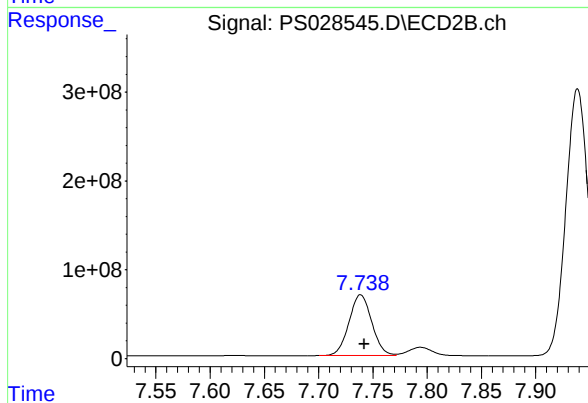
#3 4-Nitrophenol

R.T.: 7.265 min
Delta R.T.: -0.003 min
Response: 594129705
Conc: 688.13 ng/ml



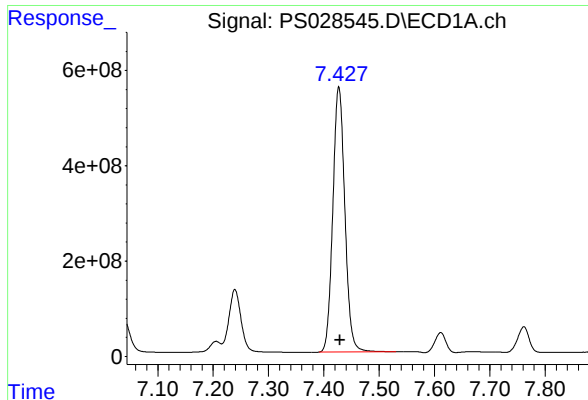
#4 2,4-DCAA

R.T.: 7.239 min
Delta R.T.: -0.002 min
Response: 1991238360
Conc: 779.08 ng/ml



#4 2,4-DCAA

R.T.: 7.739 min
Delta R.T.: -0.003 min
Response: 1002661091
Conc: 775.87 ng/ml



#5 DICAMBA

R.T.: 7.427 min
Delta R.T.: -0.002 min
Response: 8398210060
Conc: 767.52 ng/ml

Instrument :

ECD_S

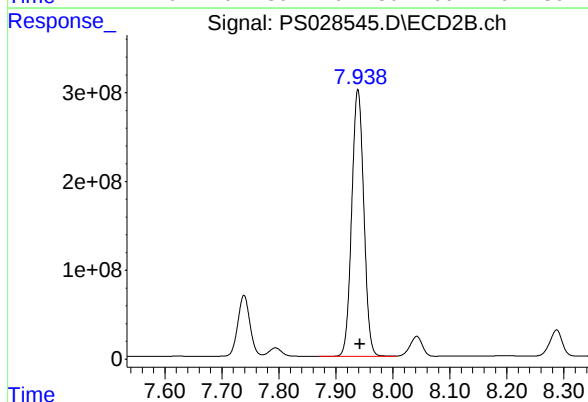
ClientSampleId :

HSTDCCC750

Manual Integrations

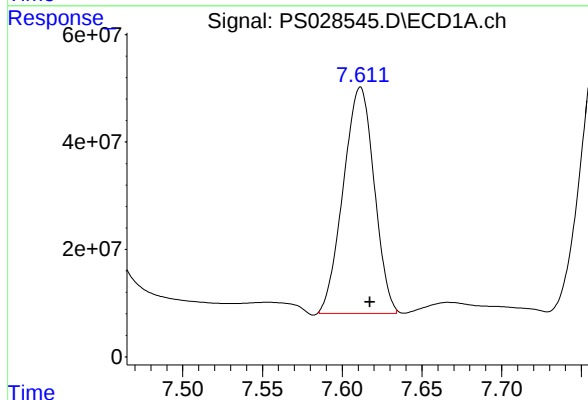
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



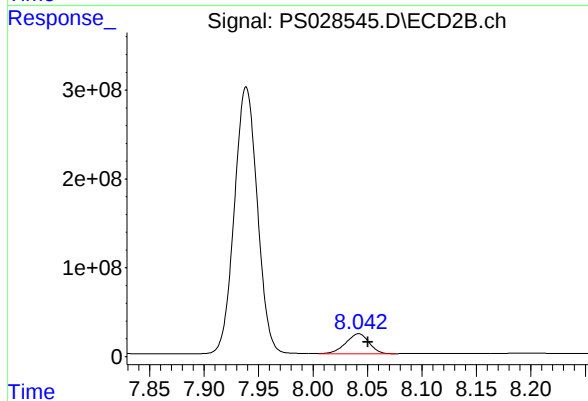
#5 DICAMBA

R.T.: 7.939 min
Delta R.T.: -0.004 min
Response: 4403535433
Conc: 772.00 ng/ml



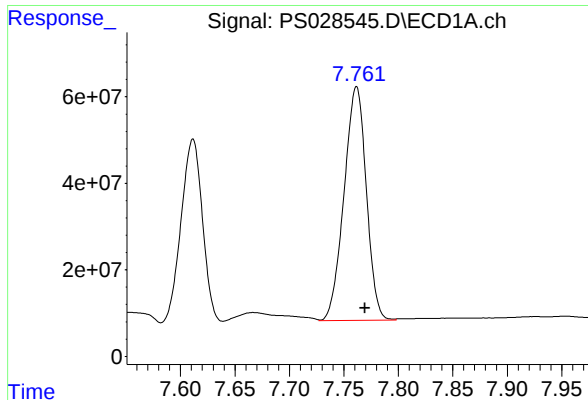
#6 MCPP

R.T.: 7.611 min
Delta R.T.: -0.006 min
Response: 568664430
Conc: 80.84 ug/ml m



#6 MCPP

R.T.: 8.042 min
Delta R.T.: -0.009 min
Response: 331229668
Conc: 77.01 ug/ml



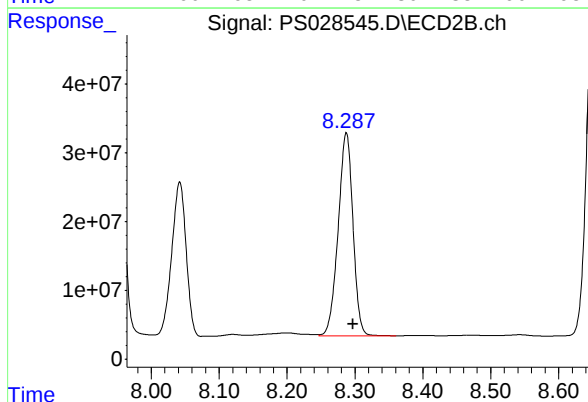
#7 MCPA

R.T.: 7.761 min
Delta R.T.: -0.008 min
Response: 768508074
Conc: 75.31 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

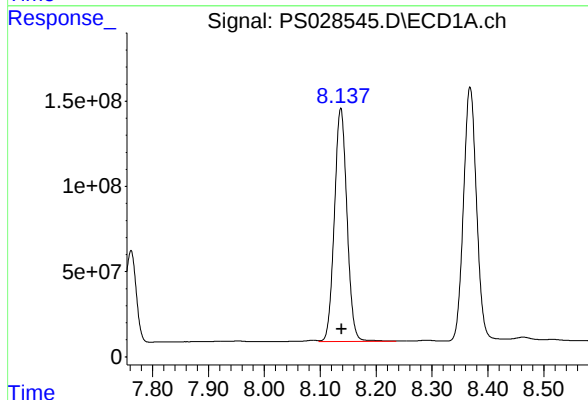
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



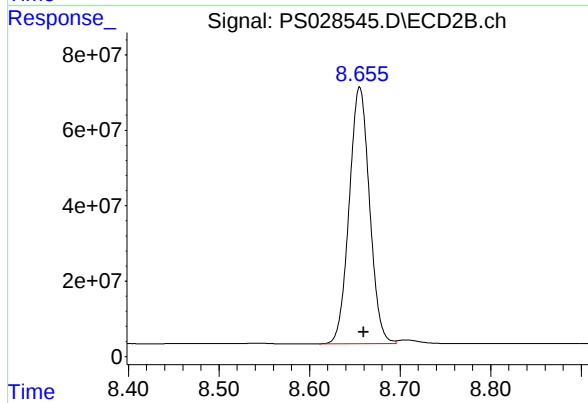
#7 MCPA

R.T.: 8.287 min
Delta R.T.: -0.010 min
Response: 447217347
Conc: 72.21 ug/ml



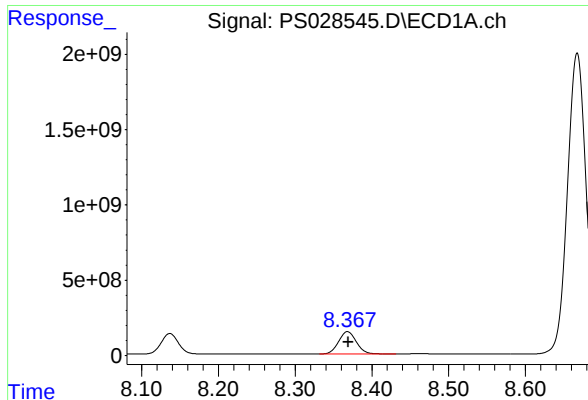
#8 DICHLORPROP

R.T.: 8.137 min
Delta R.T.: -0.002 min
Response: 2136812465
Conc: 724.01 ng/ml



#8 DICHLORPROP

R.T.: 8.655 min
Delta R.T.: -0.004 min
Response: 1062093038
Conc: 727.18 ng/ml



#9 2,4-D

R.T.: 8.368 min
Delta R.T.: -0.001 min
Response: 2410903552
Conc: 754.13 ng/ml

Instrument :

ECD_S

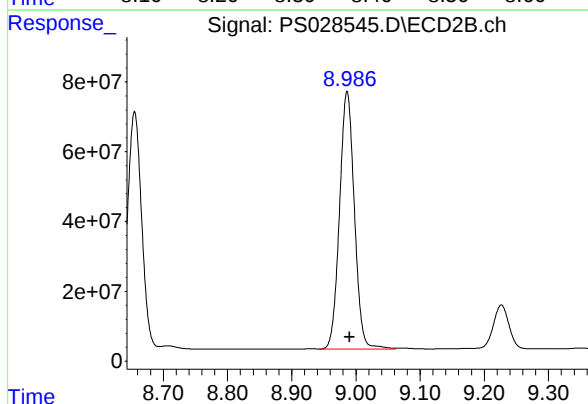
ClientSampleId :

HSTDCCC750

Manual Integrations

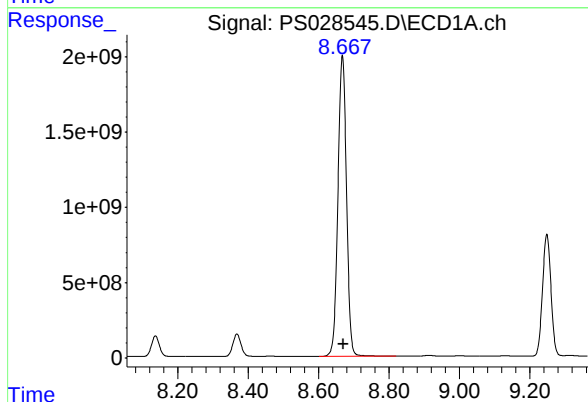
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



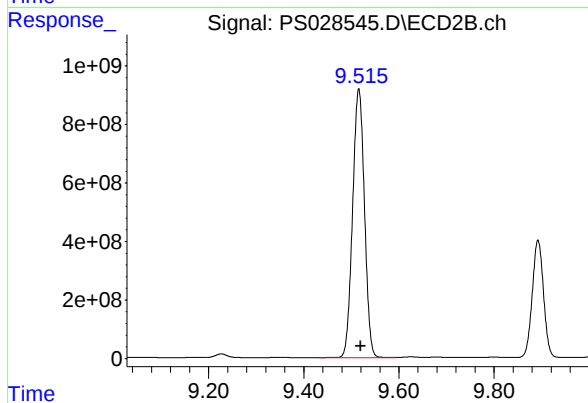
#9 2,4-D

R.T.: 8.986 min
Delta R.T.: -0.004 min
Response: 1186582894
Conc: 757.93 ng/ml



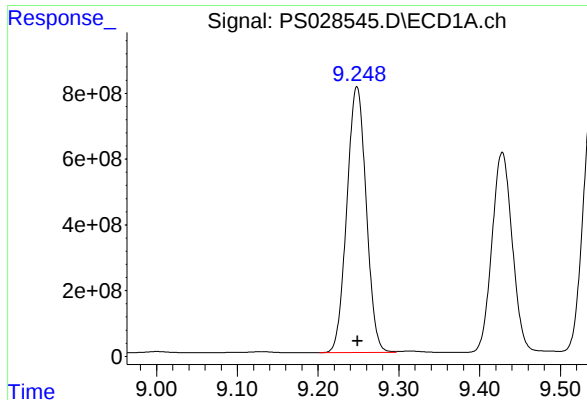
#10 Pentachlorophenol

R.T.: 8.668 min
Delta R.T.: -0.003 min
Response: 33788938691
Conc: 809.59 ng/ml



#10 Pentachlorophenol

R.T.: 9.516 min
Delta R.T.: -0.004 min
Response: 15872953792
Conc: 791.85 ng/ml



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

R.T.: 9.248 min
Delta R.T.: -0.001 min
Response: 13472599309
Conc: 775.59 ng/ml

Instrument :

ECD_S

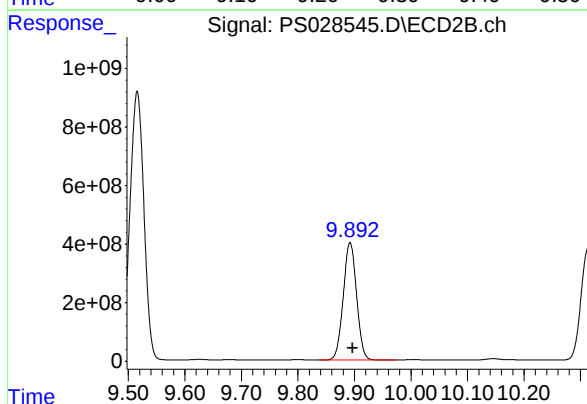
ClientSampleId :

HSTDCCC750

Manual Integrations

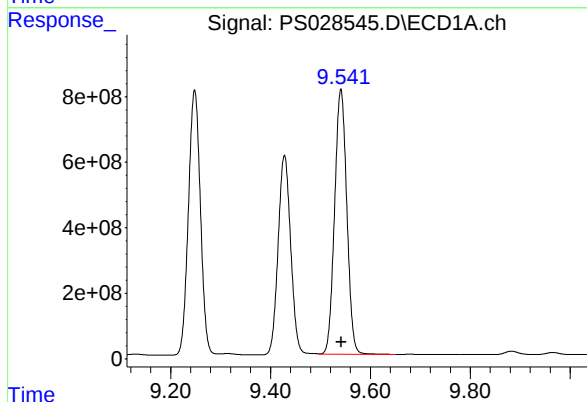
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



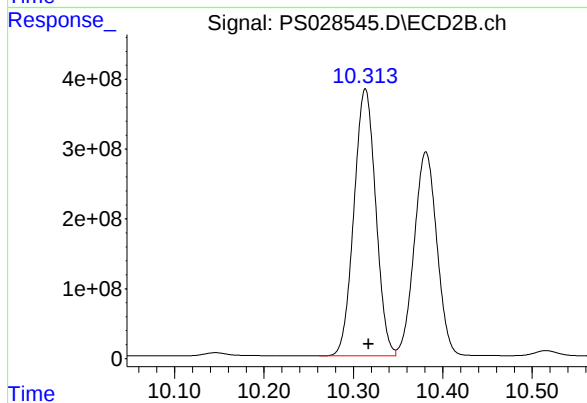
#11 2,4,5-TP (SILVEX)

R.T.: 9.892 min
Delta R.T.: -0.004 min
Response: 6584242112
Conc: 780.28 ng/ml



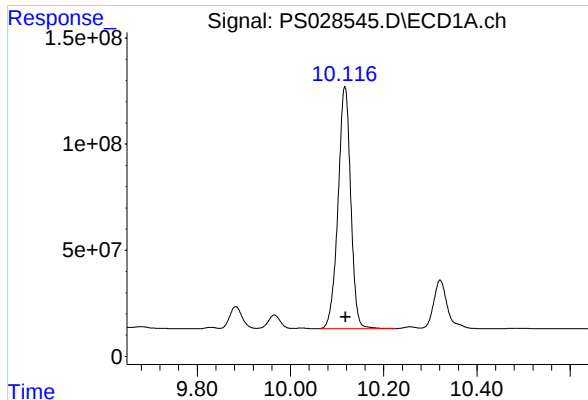
#12 2,4,5-T

R.T.: 9.541 min
Delta R.T.: 0.000 min
Response: 13701254093
Conc: 770.84 ng/ml



#12 2,4,5-T

R.T.: 10.313 min
Delta R.T.: -0.004 min
Response: 6471017249
Conc: 771.98 ng/ml



#13 2,4-DB

R.T.: 10.117 min
Delta R.T.: -0.002 min
Response: 2160582076
Conc: 792.69 ng/ml

Instrument :

ECD_S

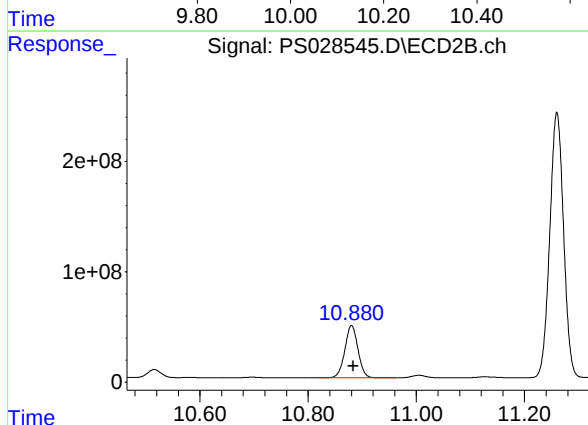
ClientSampleId :

HSTDCCC750

Manual Integrations

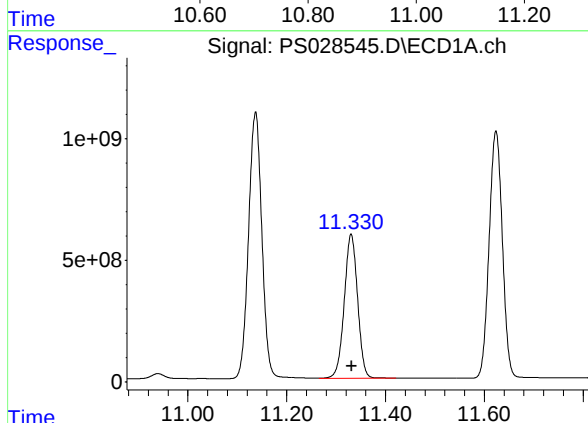
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



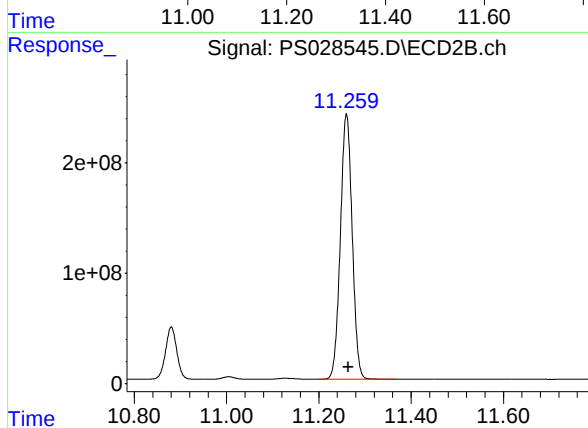
#13 2,4-DB

R.T.: 10.880 min
Delta R.T.: -0.004 min
Response: 799960875
Conc: 763.51 ng/ml



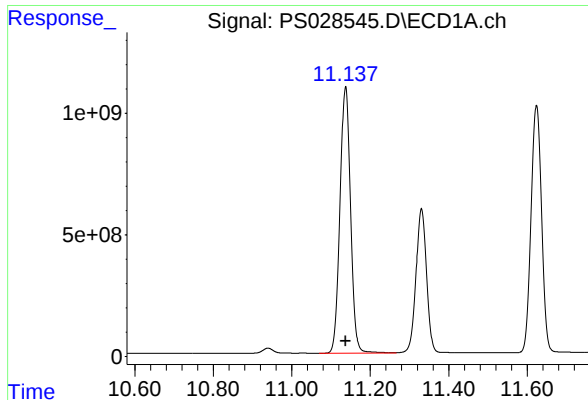
#14 DINOSEB

R.T.: 11.330 min
Delta R.T.: -0.002 min
Response: 11081594511
Conc: 777.23 ng/ml



#14 DINOSEB

R.T.: 11.260 min
Delta R.T.: -0.003 min
Response: 4261060558
Conc: 770.74 ng/ml



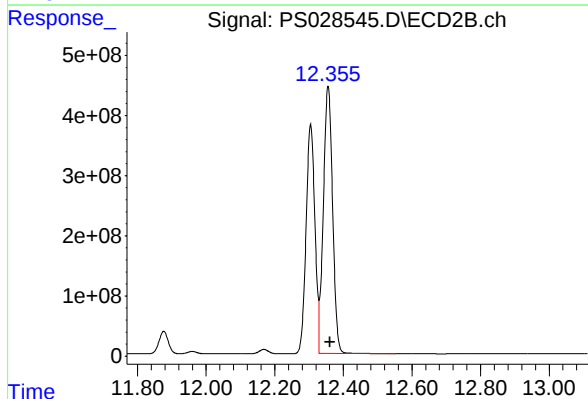
#15 Picloram

R.T.: 11.137 min
Delta R.T.: 0.000 min
Response: 20536008799
Conc: 729.27 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

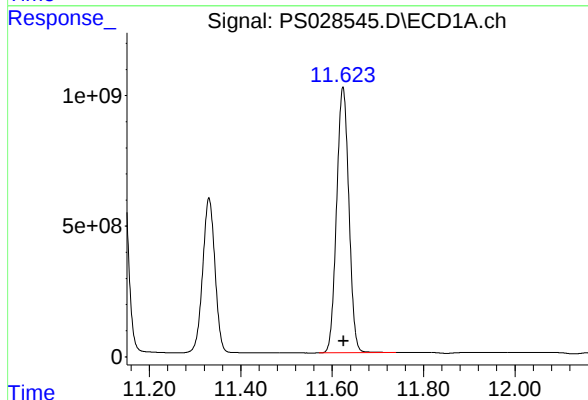
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



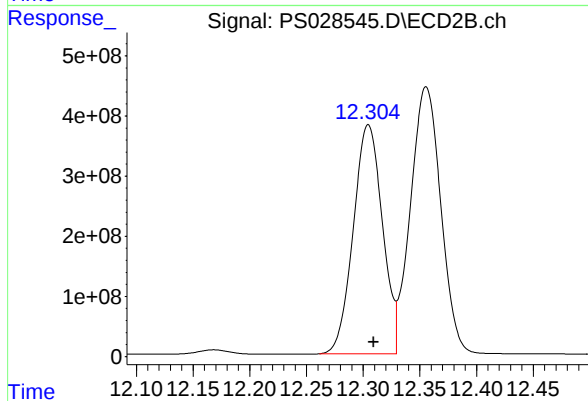
#15 Picloram

R.T.: 12.356 min
Delta R.T.: -0.005 min
Response: 8322719521
Conc: 735.29 ng/ml



#16 DCPA

R.T.: 11.624 min
Delta R.T.: -0.002 min
Response: 18914619942
Conc: 718.82 ng/ml



#16 DCPA

R.T.: 12.305 min
Delta R.T.: -0.005 min
Response: 6814292389
Conc: 702.62 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/25/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 10:14 Initial Calibration Time(s): 11:44 13:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.41	7.43	7.33	7.53	0.02
MCP	7.60	7.61	7.51	7.71	0.01
2,4-DCAA	7.23	7.24	7.14	7.34	0.01
Dalapon	2.64	2.64	2.54	2.74	0.01
MCPA	7.75	7.76	7.66	7.86	0.01
DICHLORPROP	8.12	8.14	8.04	8.24	0.02
2,4-D	8.35	8.37	8.27	8.47	0.02
2,4,5-TP(Silvex)	9.23	9.25	9.15	9.35	0.02
2,4,5-T	9.52	9.54	9.44	9.64	0.02
2,4-DB	10.10	10.12	10.02	10.22	0.02
Dinoseb	11.31	11.33	11.23	11.43	0.02
Pentachlorophenol	8.65	8.67	8.57	8.77	0.02
4-Nitrophenol	7.03	7.04	6.94	7.14	0.01
PICLORAM	11.11	11.14	11.04	11.24	0.03
DCPA	11.60	11.63	11.53	11.73	0.03
3,5-DICHLOROBENZ	6.40	6.41	6.31	6.51	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/25/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 10:14 Initial Calibration Time(s): 11:44 13:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.93	7.94	7.84	8.04	0.01
MCP	8.03	8.05	7.95	8.15	0.02
2,4-DCAA	7.73	7.74	7.64	7.84	0.01
Dalapon	2.69	2.70	2.60	2.80	0.01
MCPA	8.27	8.29	8.19	8.39	0.02
DICHLORPROP	8.64	8.66	8.56	8.76	0.02
2,4-D	8.97	8.99	8.89	9.09	0.02
2,4,5-TP(Silvex)	9.88	9.90	9.80	10.00	0.02
2,4,5-T	10.30	10.32	10.22	10.42	0.02
2,4-DB	10.86	10.88	10.78	10.98	0.02
Dinoseb	11.24	11.26	11.16	11.36	0.02
Pentachlorophenol	9.50	9.52	9.42	9.62	0.02
4-Nitrophenol	7.25	7.27	7.17	7.37	0.02
PICLORAM	12.34	12.36	12.26	12.46	0.02
DCPA	12.28	12.31	12.21	12.41	0.03
3,5-DICHLOROBENZ	6.68	6.70	6.60	6.80	0.02



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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL03 Date Analyzed: 11/25/2024

Lab Sample No.: HSTDCCC750 Data File : PS028614.D Time Analyzed: 10:14

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.521	9.443	9.643	764.730	712.500	7.3
2,4,5-TP(Silvex)	9.229	9.150	9.350	772.700	712.500	8.4
2,4-D	8.352	8.270	8.470	746.500	705.000	5.9
2,4-DB	10.095	10.019	10.219	722.880	712.500	1.5
2,4-DCAA	7.226	7.141	7.341	786.480	750.000	4.9
3,5-DICHLOROBENZOIC ACID	6.398	6.311	6.511	747.950	697.500	7.2
4-Nitrophenol	7.025	6.939	7.139	731.160	682.500	7.1
Dalapon	2.635	2.539	2.739	722.540	682.500	5.9
DCPA	11.599	11.526	11.726	773.680	720.000	7.5
DICAMBA	7.414	7.329	7.529	775.860	705.000	10.1
DICHLORPROP	8.121	8.039	8.239	754.340	705.000	7.0
Dinoseb	11.305	11.233	11.433	751.080	705.000	6.5
MCPA	7.746	7.663	7.863	74.370	69.750	6.6
MCPP	7.596	7.512	7.712	75.810	70.500	7.5
Pentachlorophenol	8.650	8.570	8.770	813.670	712.500	14.2
PICLORAM	11.113	11.039	11.239	641.340	712.500	-10.0



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL03 Date Analyzed: 11/25/2024

Lab Sample No.: HSTDCCC750 Data File : PS028614.D Time Analyzed: 10:14

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.295	10.216	10.416	712.820	712.500	0.0
2,4,5-TP(Silvex)	9.876	9.796	9.996	738.720	712.500	3.7
2,4-D	8.971	8.890	9.090	693.470	705.000	-1.6
2,4-DB	10.862	10.784	10.984	640.620	712.500	-10.1
2,4-DCAA	7.726	7.642	7.842	712.370	750.000	-5.0
3,5-DICHLOROBENZOIC ACID	6.683	6.595	6.795	679.230	697.500	-2.6
4-Nitrophenol	7.254	7.168	7.368	673.810	682.500	-1.3
Dalapon	2.694	2.599	2.799	638.130	682.500	-6.5
DCPA	12.284	12.208	12.408	759.250	720.000	5.5
DICAMBA	7.926	7.842	8.042	721.200	705.000	2.3
DICHLORPROP	8.642	8.559	8.759	687.480	705.000	-2.5
Dinoseb	11.241	11.163	11.363	693.240	705.000	-1.7
MCPA	8.274	8.191	8.391	62.820	69.750	-9.9
MCPP	8.029	7.945	8.145	64.370	70.500	-8.7
Pentachlorophenol	9.499	9.419	9.619	759.150	712.500	6.5
PICLORAM	12.335	12.260	12.460	612.260	712.500	-14.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112524\
 Data File : PS028614.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Nov 2024 10:14
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/26/2024

Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 26 05:18:29 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
4) S 2,4-DCAA	7.226	7.726	2010.1E6	920.6E6	786.477m	712.365m
Target Compounds						
1) T Dalapon	2.635	2.694	2427.3E6	1544.2E6	722.539	638.130
2) T 3,5-DICHL...	6.398	6.683	2790.8E6	1312.5E6	747.955m	679.231m
3) T 4-Nitroph...	7.025	7.254	1241.8E6	581.8E6	731.161	673.814
5) T DICAMBA	7.414	7.926	8489.4E6	4113.8E6	775.856	721.201
6) T MCPP	7.596	8.029	533.3E6	276.8E6	75.813	64.369
7) T MCPA	7.746	8.274	758.9E6	389.1E6	74.367	62.823
8) T DICHLORPROP	8.121	8.642	2226.3E6	1004.1E6	754.340	687.484
9) T 2,4-D	8.352	8.971	2386.5E6	1085.7E6	746.501	693.469
10) T Pentachlo...	8.650	9.499	33959.5E6	15217.5E6	813.672	759.155
11) T 2,4,5-TP ...	9.229	9.876	13422.3E6	6233.6E6	772.697	738.721
12) T 2,4,5-T	9.521	10.295	13592.7E6	5975.1E6	764.728	712.821
13) T 2,4-DB	10.095	10.862	1970.3E6	671.2E6	722.881	640.617
14) T DINOSEB	11.305	11.241	10708.7E6	3832.6E6	751.078	693.238
15) T Picloram	11.113	12.335	18060.0E6	6930.1E6	641.342	612.255
16) T DCPA	11.599	12.284	20358.0E6	7363.5E6	773.677	759.250

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112524\
Data File : PS028614.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 10:14
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

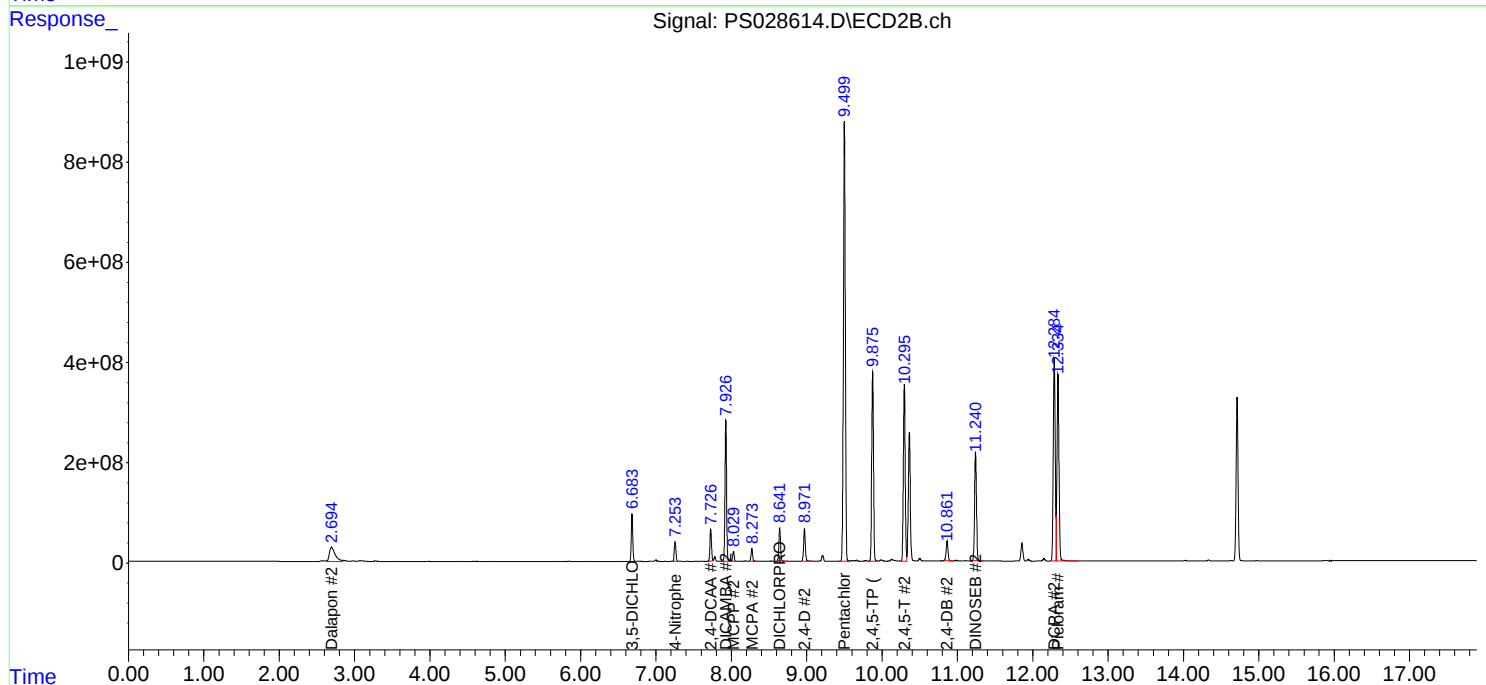
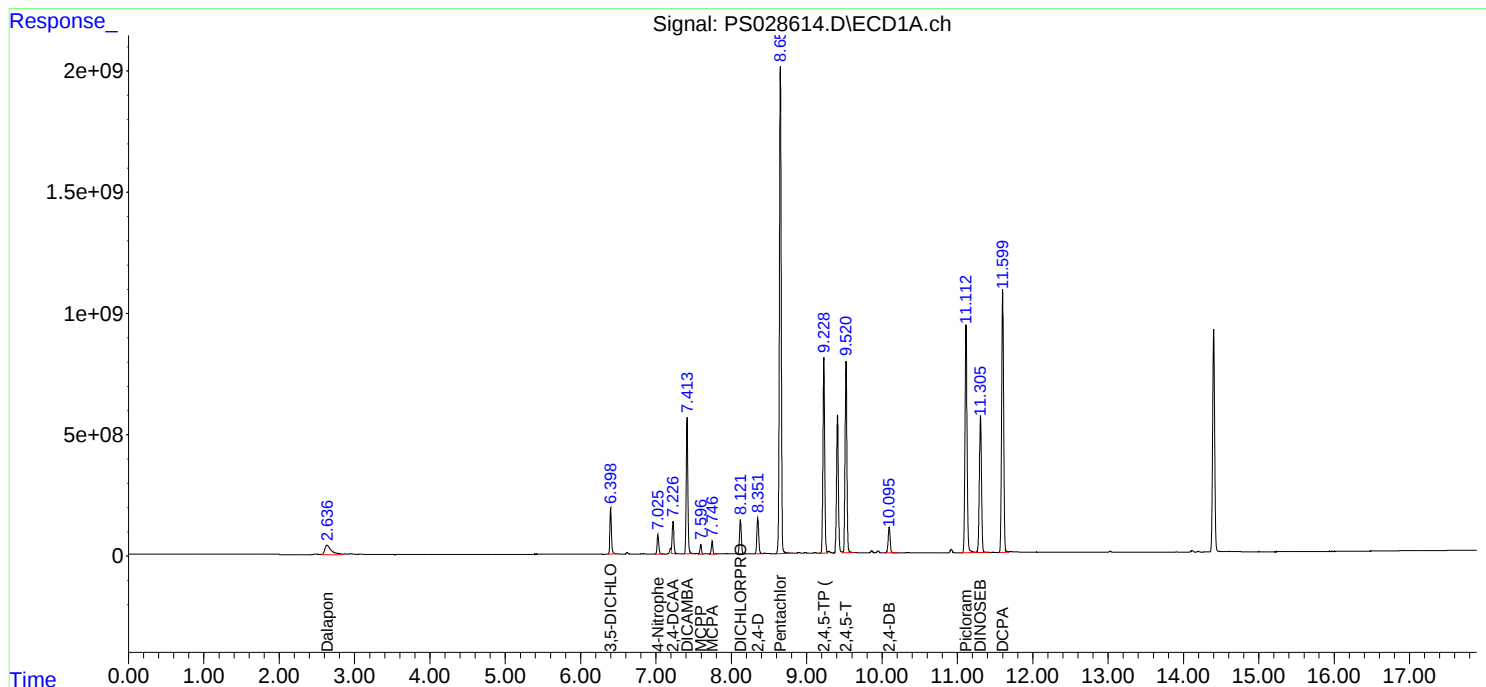
Manual Integrations

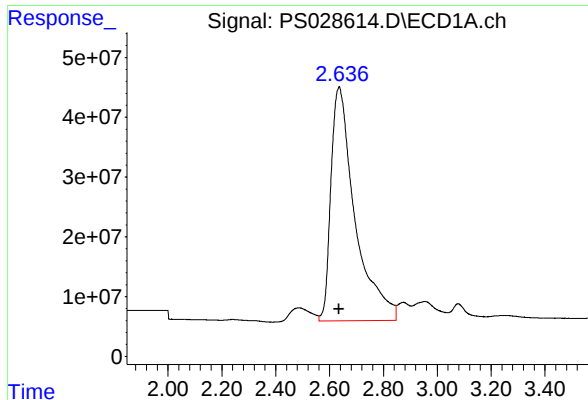
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 26 05:18:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#1 Dalapon

R.T.: 2.635 min
Delta R.T.: 0.000 min
Response: 2427345444
Conc: 722.54 ng/ml

Instrument :

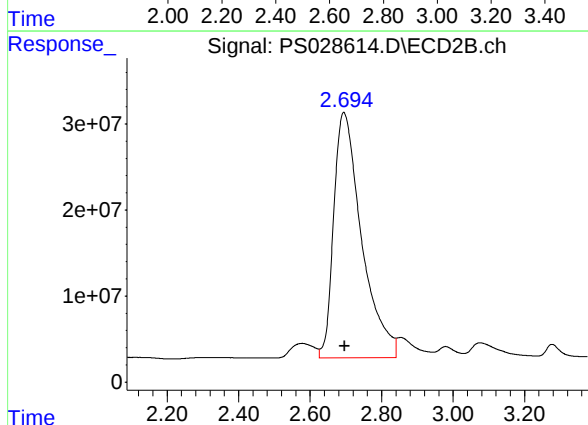
ECD_S

ClientSampleId :

HSTDCCC750

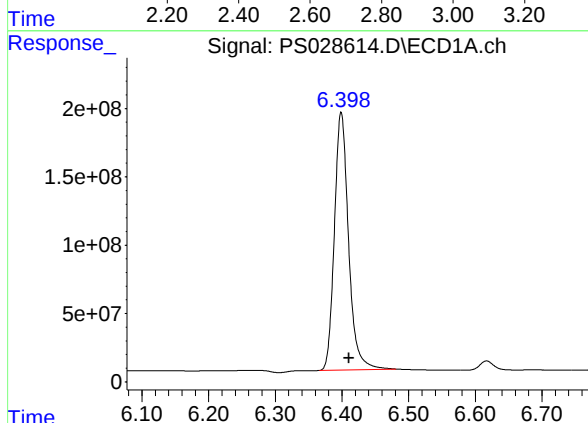
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



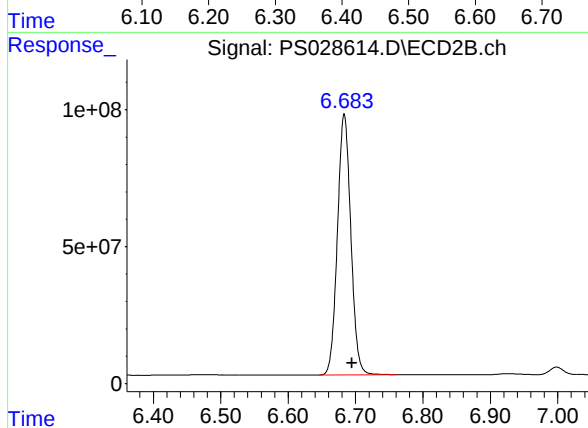
#1 Dalapon

R.T.: 2.694 min
Delta R.T.: -0.003 min
Response: 1544223116
Conc: 638.13 ng/ml



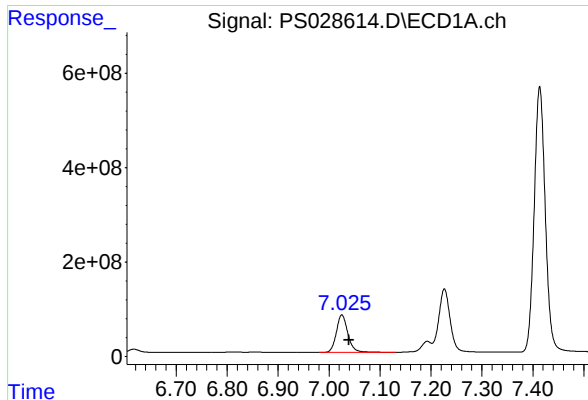
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.398 min
Delta R.T.: -0.012 min
Response: 2790841429
Conc: 747.95 ng/ml m



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.683 min
Delta R.T.: -0.012 min
Response: 1312547764
Conc: 679.23 ng/ml m



#3 4-Nitrophenol

R.T.: 7.025 min
Delta R.T.: -0.014 min
Response: 1241839378
Conc: 731.16 ng/ml

Instrument :

ECD_S

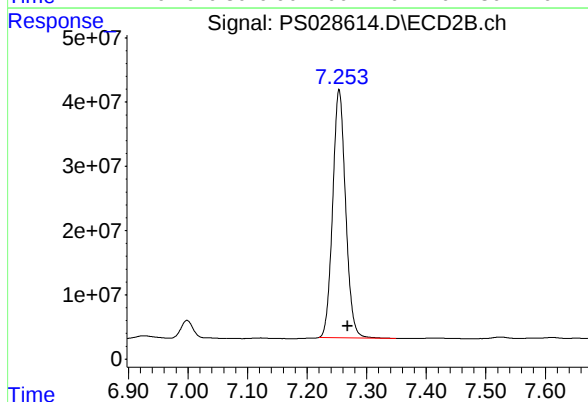
ClientSampleId :

HSTDCCC750

Manual Integrations

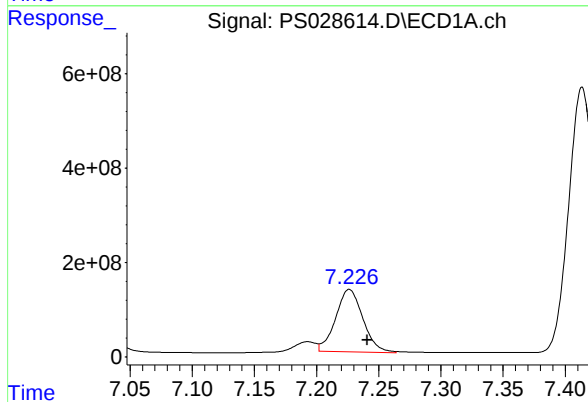
APPROVED

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Supervised By :Ankita Jodhani 11/26/2024



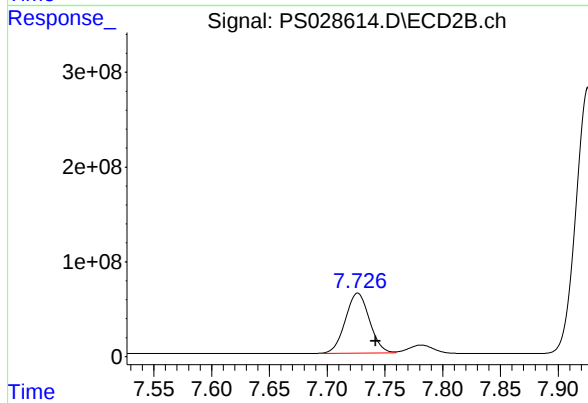
#3 4-Nitrophenol

R.T.: 7.254 min
Delta R.T.: -0.014 min
Response: 581767248
Conc: 673.81 ng/ml



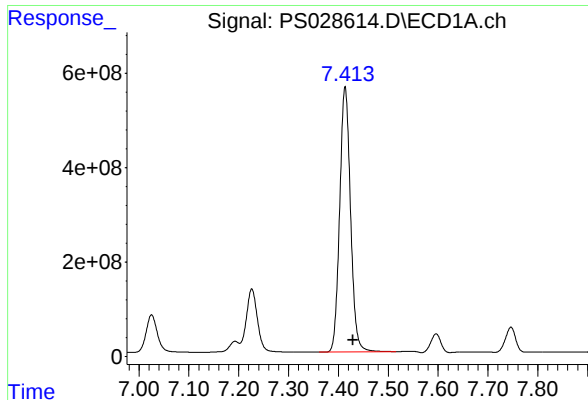
#4 2,4-DCAA

R.T.: 7.226 min
Delta R.T.: -0.015 min
Response: 2010143203
Conc: 786.48 ng/ml m



#4 2,4-DCAA

R.T.: 7.726 min
Delta R.T.: -0.016 min
Response: 920592925
Conc: 712.37 ng/ml m



#5 DICAMBA

R.T.: 7.414 min
Delta R.T.: -0.015 min
Response: 8489401584
Conc: 775.86 ng/ml

Instrument :

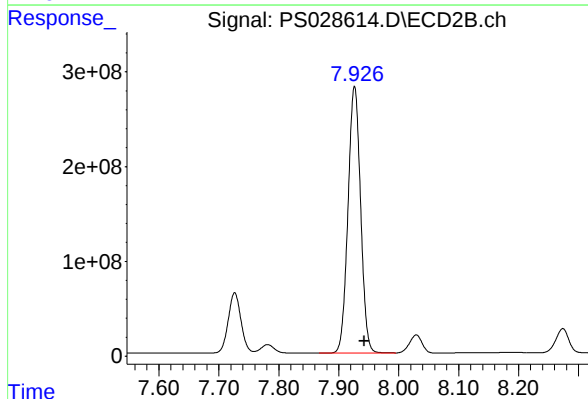
ECD_S

ClientSampleId :

HSTDCCC750

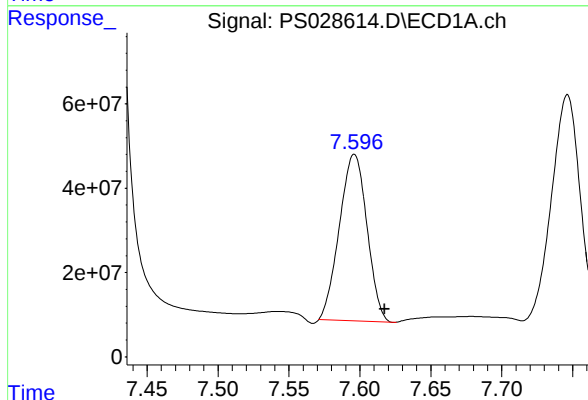
Manual Integrations
APPROVED

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Supervised By :Ankita Jodhani 11/26/2024



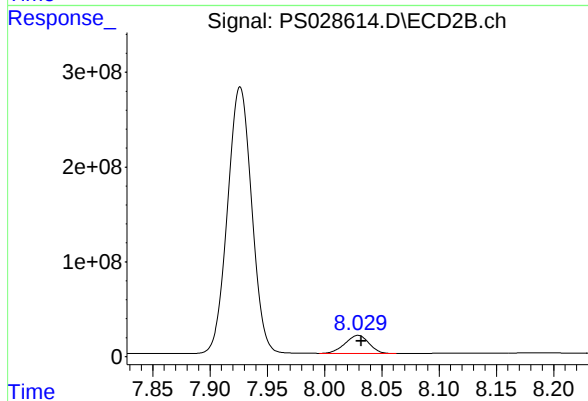
#5 DICAMBA

R.T.: 7.926 min
Delta R.T.: -0.016 min
Response: 4113782927
Conc: 721.20 ng/ml



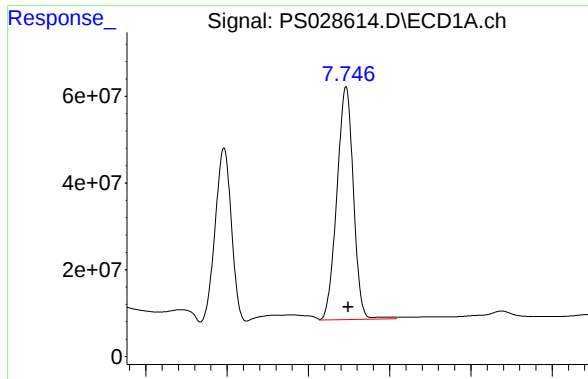
#6 MCPP

R.T.: 7.596 min
Delta R.T.: -0.021 min
Response: 533321801
Conc: 75.81 ug/ml



#6 MCPP

R.T.: 8.029 min
Delta R.T.: -0.003 min
Response: 276845982
Conc: 64.37 ug/ml



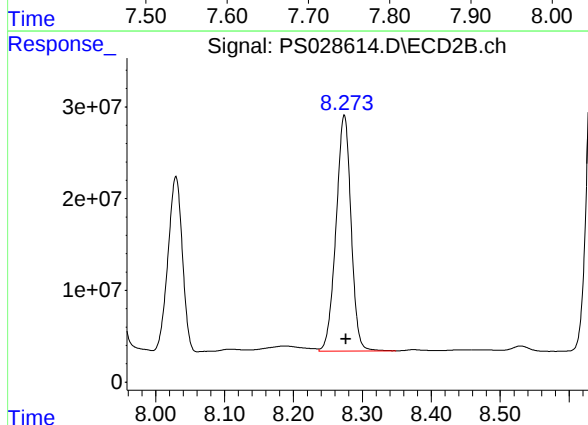
#7 MCPA

R.T.: 7.746 min
Delta R.T.: -0.003 min
Response: 758890460
Conc: 74.37 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

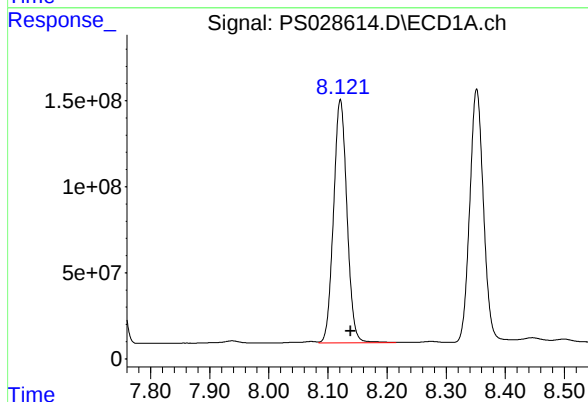
Manual Integrations
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Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



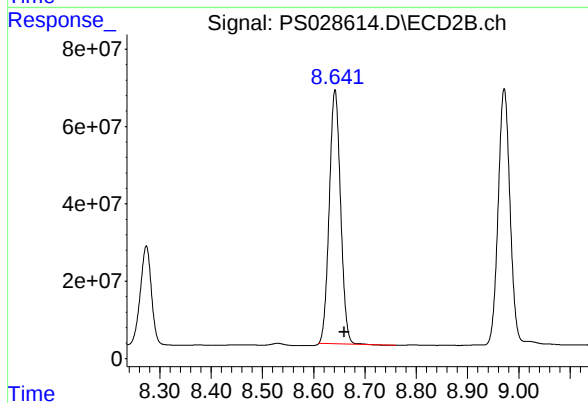
#7 MCPA

R.T.: 8.274 min
Delta R.T.: -0.002 min
Response: 389093642
Conc: 62.82 ug/ml



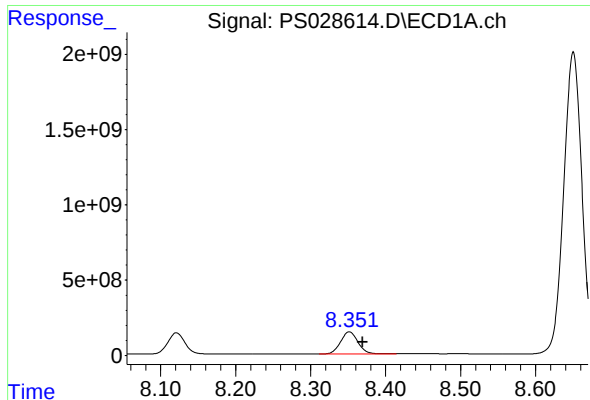
#8 DICHLORPROP

R.T.: 8.121 min
Delta R.T.: -0.017 min
Response: 2226329073
Conc: 754.34 ng/ml



#8 DICHLORPROP

R.T.: 8.642 min
Delta R.T.: -0.018 min
Response: 1004117261
Conc: 687.48 ng/ml



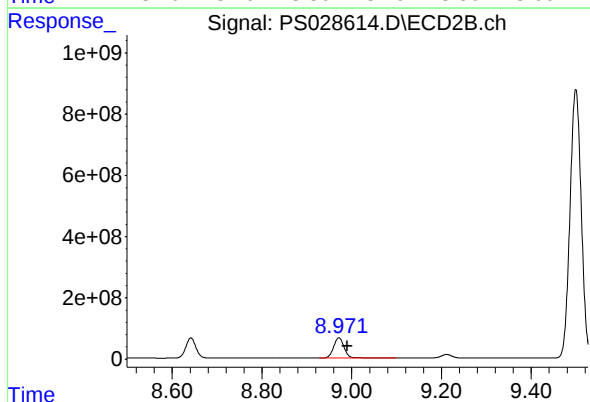
#9 2,4-D

R.T.: 8.352 min
Delta R.T.: -0.018 min
Response: 2386510807
Conc: 746.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

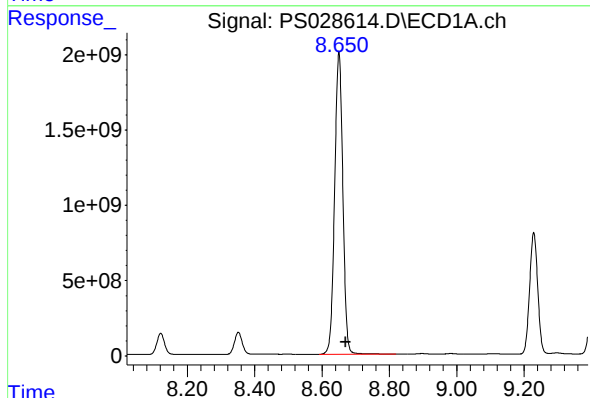
Manual Integrations
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Supervised By :Ankita Jodhani 11/26/2024



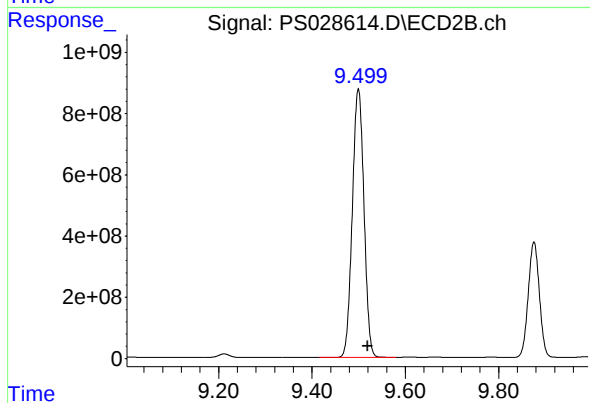
#9 2,4-D

R.T.: 8.971 min
Delta R.T.: -0.019 min
Response: 1085661130
Conc: 693.47 ng/ml



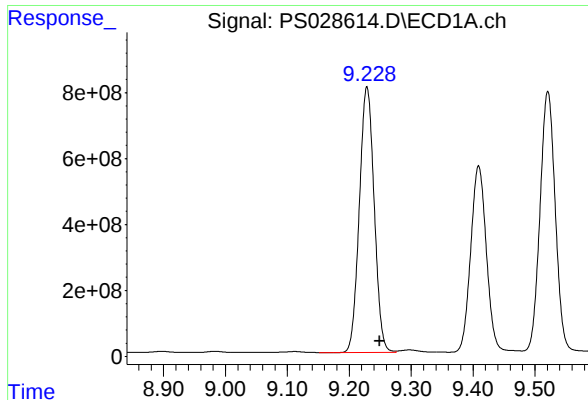
#10 Pentachlorophenol

R.T.: 8.650 min
Delta R.T.: -0.020 min
Response: 33959461419
Conc: 813.67 ng/ml



#10 Pentachlorophenol

R.T.: 9.499 min
Delta R.T.: -0.020 min
Response: 15217521502
Conc: 759.15 ng/ml



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

R.T.: 9.229 min
Delta R.T.: -0.020 min
Response: 13422301932
Conc: 772.70 ng/ml

Instrument :

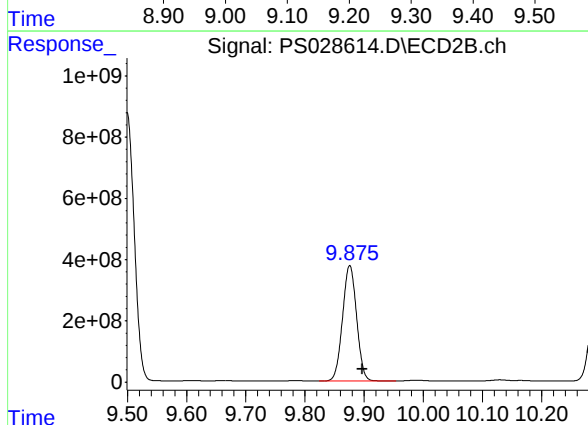
ECD_S

ClientSampleId :

HSTDCCC750

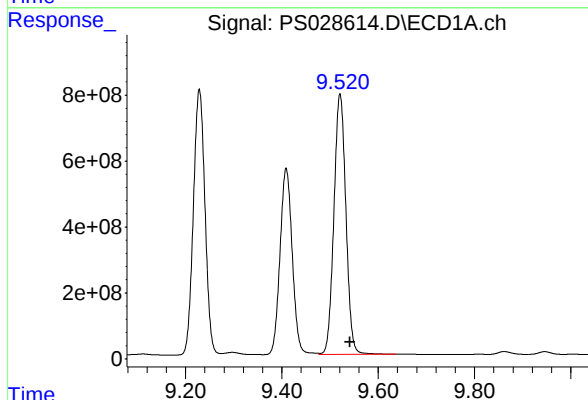
Manual Integrations
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Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



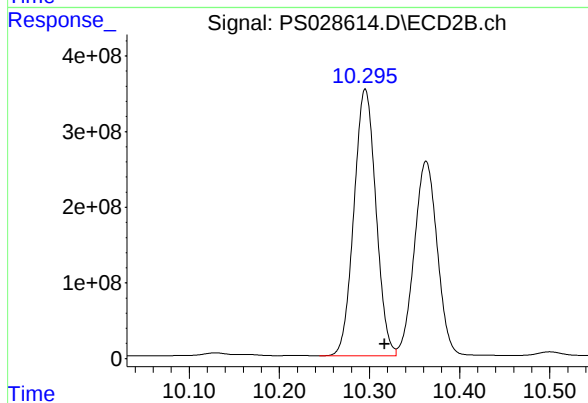
#11 2,4,5-TP (SILVEX)

R.T.: 9.876 min
Delta R.T.: -0.021 min
Response: 6233550381
Conc: 738.72 ng/ml



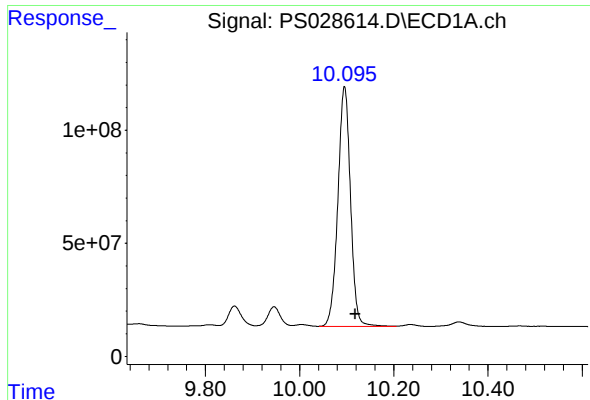
#12 2,4,5-T

R.T.: 9.521 min
Delta R.T.: -0.021 min
Response: 13592688552
Conc: 764.73 ng/ml



#12 2,4,5-T

R.T.: 10.295 min
Delta R.T.: -0.022 min
Response: 5975118723
Conc: 712.82 ng/ml



#13 2,4-DB

R.T.: 10.095 min
Delta R.T.: -0.023 min
Response: 197029962
Conc: 722.88 ng/ml

Instrument :

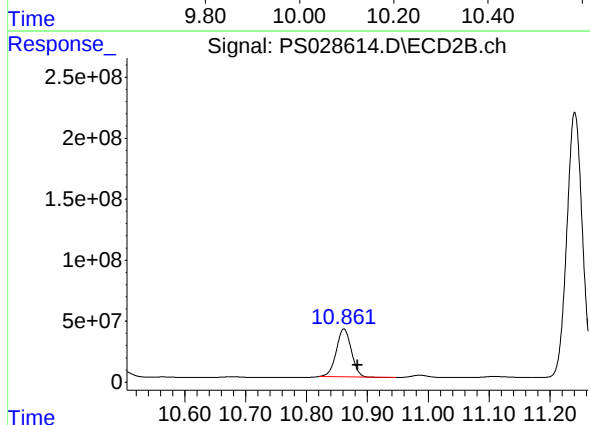
ECD_S

ClientSampleId :

HSTDCCC750

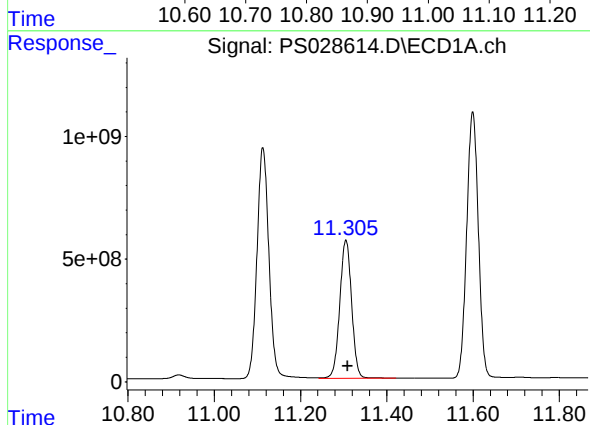
Manual Integrations
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Supervised By :Ankita Jodhani 11/26/2024



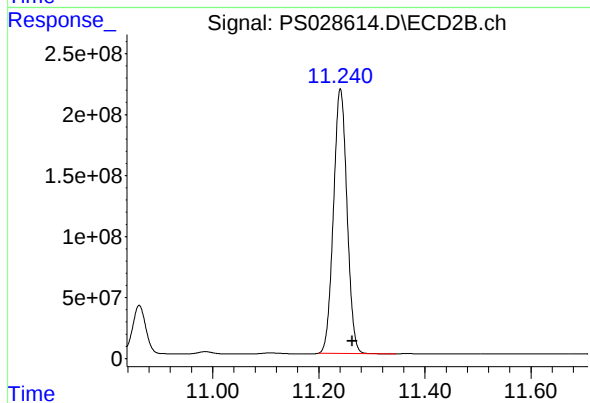
#13 2,4-DB

R.T.: 10.862 min
Delta R.T.: -0.022 min
Response: 671197813
Conc: 640.62 ng/ml



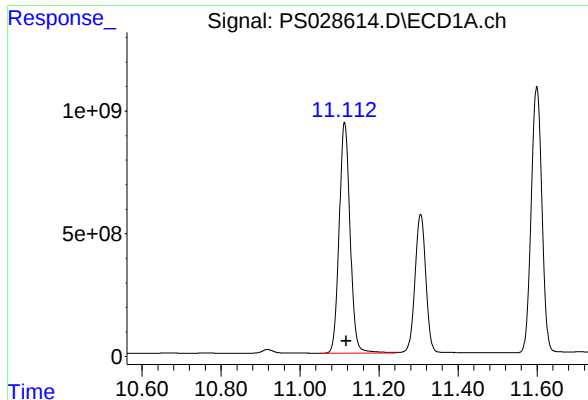
#14 DINOSEB

R.T.: 11.305 min
Delta R.T.: -0.004 min
Response: 10708697278
Conc: 751.08 ng/ml



#14 DINOSEB

R.T.: 11.241 min
Delta R.T.: -0.023 min
Response: 3832566126
Conc: 693.24 ng/ml



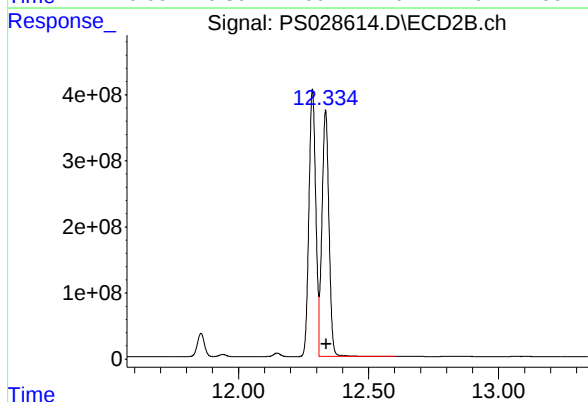
#15 Picloram

R.T.: 11.113 min
Delta R.T.: -0.004 min
Response: 18060032503
Conc: 641.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

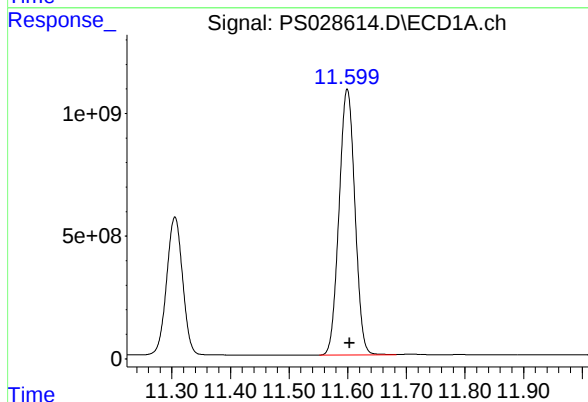
Manual Integrations
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Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



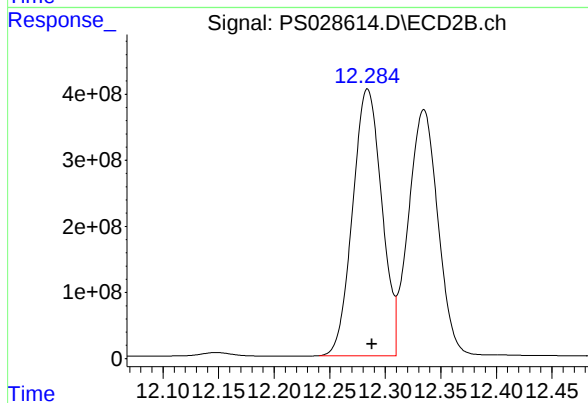
#15 Picloram

R.T.: 12.335 min
Delta R.T.: -0.003 min
Response: 6930142073
Conc: 612.26 ng/ml



#16 DCPA

R.T.: 11.599 min
Delta R.T.: -0.004 min
Response: 20358048997
Conc: 773.68 ng/ml



#16 DCPA

R.T.: 12.284 min
Delta R.T.: -0.004 min
Response: 7363528068
Conc: 759.25 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/25/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 11:51 Initial Calibration Time(s): 11:44 13:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.41	7.43	7.33	7.53	0.02
MCP	7.60	7.61	7.51	7.71	0.01
2,4-DCAA	7.23	7.24	7.14	7.34	0.01
Dalapon	2.64	2.64	2.54	2.74	0.01
MCPA	7.75	7.76	7.66	7.86	0.01
DICHLORPROP	8.12	8.14	8.04	8.24	0.02
2,4-D	8.35	8.37	8.27	8.47	0.02
2,4,5-TP(Silvex)	9.23	9.25	9.15	9.35	0.02
2,4,5-T	9.52	9.54	9.44	9.64	0.02
2,4-DB	10.10	10.12	10.02	10.22	0.02
Dinoseb	11.31	11.33	11.23	11.43	0.02
Pentachlorophenol	8.65	8.67	8.57	8.77	0.02
4-Nitrophenol	7.03	7.04	6.94	7.14	0.01
PICLORAM	11.11	11.14	11.04	11.24	0.03
DCPA	11.60	11.63	11.53	11.73	0.03
3,5-DICHLOROBENZ	6.40	6.41	6.31	6.51	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/25/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 11:51 Initial Calibration Time(s): 11:44 13:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.93	7.94	7.84	8.04	0.01
MCP	8.03	8.05	7.95	8.15	0.02
2,4-DCAA	7.73	7.74	7.64	7.84	0.01
Dalapon	2.70	2.70	2.60	2.80	0.01
MCPA	8.27	8.29	8.19	8.39	0.02
DICHLORPROP	8.64	8.66	8.56	8.76	0.02
2,4-D	8.97	8.99	8.89	9.09	0.02
2,4,5-TP(Silvex)	9.88	9.90	9.80	10.00	0.02
2,4,5-T	10.30	10.32	10.22	10.42	0.02
2,4-DB	10.86	10.88	10.78	10.98	0.02
Dinoseb	11.24	11.26	11.16	11.36	0.02
Pentachlorophenol	9.50	9.52	9.42	9.62	0.02
4-Nitrophenol	7.25	7.27	7.17	7.37	0.02
PICLORAM	12.34	12.36	12.26	12.46	0.02
DCPA	12.29	12.31	12.21	12.41	0.03
3,5-DICHLOROBENZ	6.68	6.70	6.60	6.80	0.02



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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL04 Date Analyzed: 11/25/2024

Lab Sample No.: HSTDCCC750 Data File : PS028618.D Time Analyzed: 11:51

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.520	9.443	9.643	772.000	712.500	8.4
2,4,5-TP(Silvex)	9.228	9.150	9.350	772.960	712.500	8.5
2,4-D	8.351	8.270	8.470	748.480	705.000	6.2
2,4-DB	10.095	10.019	10.219	739.400	712.500	3.8
2,4-DCAA	7.226	7.141	7.341	760.440	750.000	1.4
3,5-DICHLOROBENZOIC ACID	6.400	6.311	6.511	747.220	697.500	7.1
4-Nitrophenol	7.025	6.939	7.139	731.460	682.500	7.2
Dalapon	2.635	2.539	2.739	716.670	682.500	5.0
DCPA	11.598	11.526	11.726	773.240	720.000	7.4
DICAMBA	7.414	7.329	7.529	772.410	705.000	9.6
DICHLORPROP	8.121	8.039	8.239	752.250	705.000	6.7
Dinoseb	11.305	11.233	11.433	746.680	705.000	5.9
MCPA	7.747	7.663	7.863	72.770	69.750	4.3
MCPP	7.597	7.512	7.712	76.060	70.500	7.9
Pentachlorophenol	8.650	8.570	8.770	813.880	712.500	14.2
PICLORAM	11.113	11.039	11.239	708.400	712.500	-0.6



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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL04 Date Analyzed: 11/25/2024

Lab Sample No.: HSTDCCC750 Data File : PS028618.D Time Analyzed: 11:51

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.296	10.216	10.416	730.860	712.500	2.6
2,4,5-TP(Silvex)	9.877	9.796	9.996	749.410	712.500	5.2
2,4-D	8.972	8.890	9.090	704.430	705.000	-0.1
2,4-DB	10.863	10.784	10.984	664.870	712.500	-6.7
2,4-DCAA	7.727	7.642	7.842	727.560	750.000	-3.0
3,5-DICHLOROBENZOIC ACID	6.684	6.595	6.795	690.120	697.500	-1.1
4-Nitrophenol	7.254	7.168	7.368	694.190	682.500	1.7
Dalapon	2.695	2.599	2.799	670.080	682.500	-1.8
DCPA	12.285	12.208	12.408	773.750	720.000	7.5
DICAMBA	7.926	7.842	8.042	732.130	705.000	3.8
DICHLORPROP	8.642	8.559	8.759	693.330	705.000	-1.7
Dinoseb	11.242	11.163	11.363	697.790	705.000	-1.0
MCPA	8.274	8.191	8.391	62.280	69.750	-10.7
MCPP	8.030	7.945	8.145	63.310	70.500	-10.2
Pentachlorophenol	9.500	9.419	9.619	772.470	712.500	8.4
PICLORAM	12.335	12.260	12.460	694.580	712.500	-2.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112524\
 Data File : PS028618.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Nov 2024 11:51
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/26/2024

Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 26 05:24:16 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
4) S 2,4-DCAA	7.226	7.727	1943.6E6	940.2E6	760.440m	727.558m
Target Compounds						
1) T Dalapon	2.635	2.695	2407.6E6	1621.5E6	716.668	670.081
2) T 3,5-DICHL...	6.400	6.684	2788.1E6	1333.6E6	747.223	690.117
3) T 4-Nitroph...	7.025	7.254	1242.3E6	599.4E6	731.460m	694.194
5) T DICAMBA	7.414	7.926	8451.7E6	4176.1E6	772.411	732.134
6) T MCPP	7.597	8.030	535.1E6	272.3E6	76.061	63.315
7) T MCPA	7.747	8.274	742.6E6	385.7E6	72.772	62.276
8) T DICHLORPROP	8.121	8.642	2220.2E6	1012.7E6	752.251	693.329
9) T 2,4-D	8.351	8.972	2392.8E6	1102.8E6	748.483	704.435
10) T Pentachlo...	8.650	9.500	33968.1E6	15484.4E6	813.879	772.469
11) T 2,4,5-TP ...	9.228	9.877	13426.9E6	6323.8E6	772.961	749.413
12) T 2,4,5-T	9.520	10.296	13722.0E6	6126.3E6	772.005	730.861
13) T 2,4-DB	10.095	10.863	2015.3E6	696.6E6	739.401	664.869
14) T DINOSEB	11.305	11.242	10646.0E6	3857.7E6	746.680	697.785
15) T Picloram	11.113	12.335	19948.2E6	7862.0E6	708.395	694.583
16) T DCPA	11.598	12.285	20346.7E6	7504.2E6	773.245	773.754

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112524\
Data File : PS028618.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:51
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

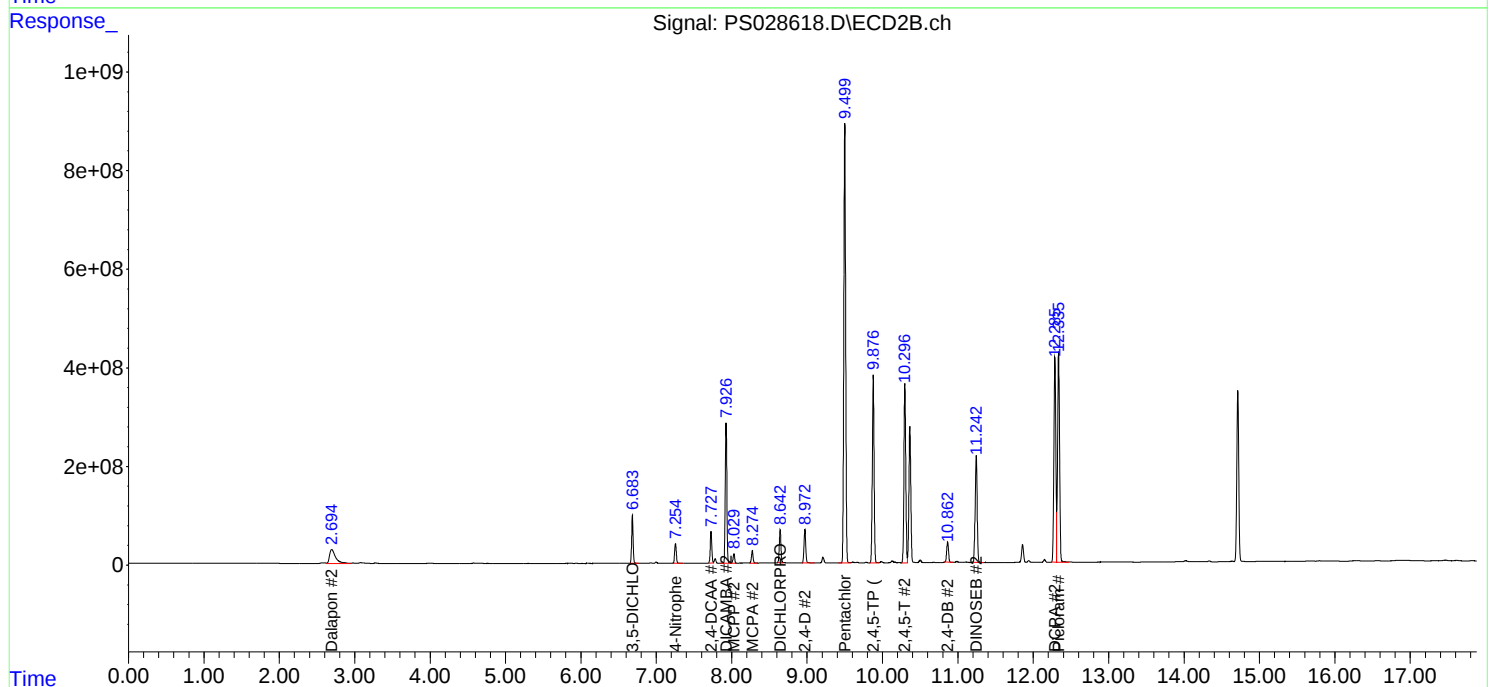
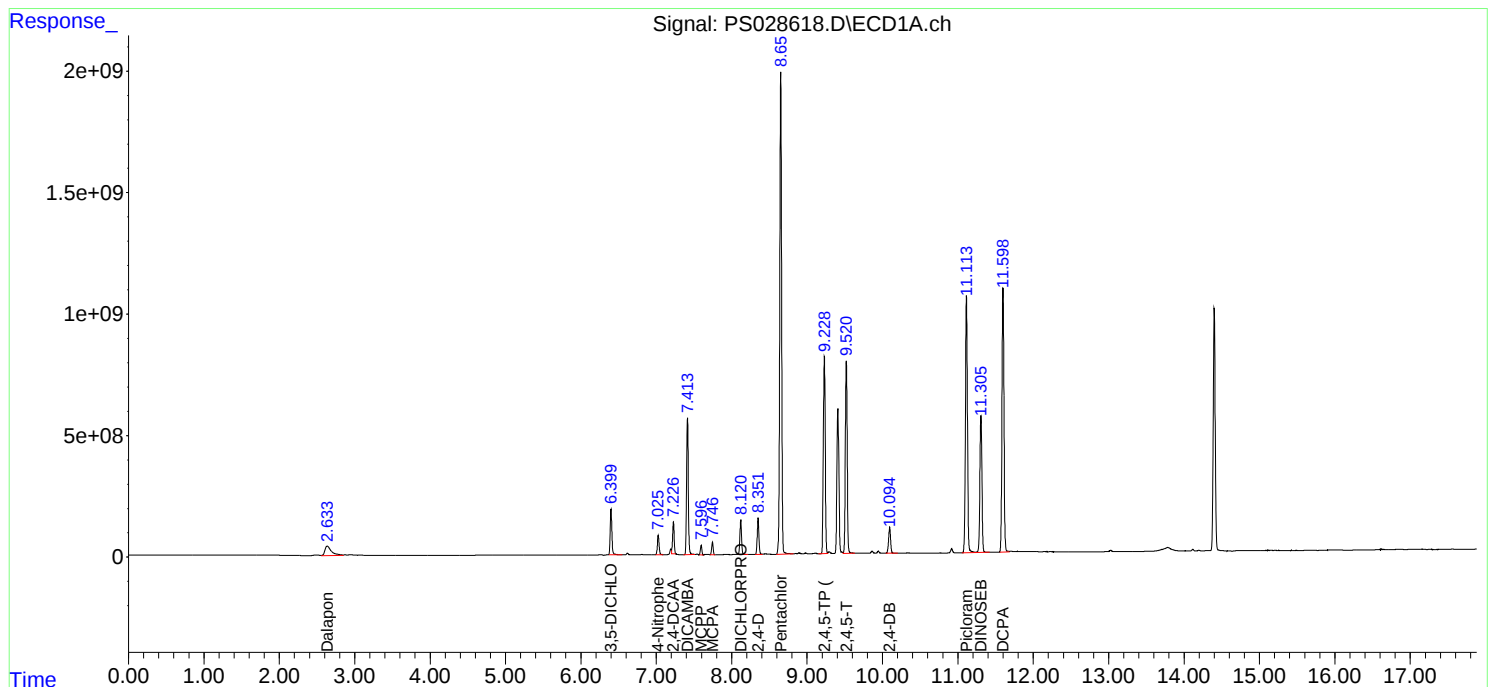
Manual Integrations

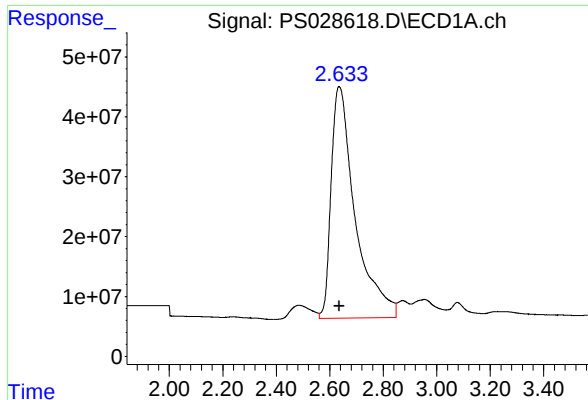
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 26 05:24:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#1 Dalapon

R.T.: 2.635 min
Delta R.T.: 0.000 min
Response: 2407624278
Conc: 716.67 ng/ml

Instrument :

ECD_S

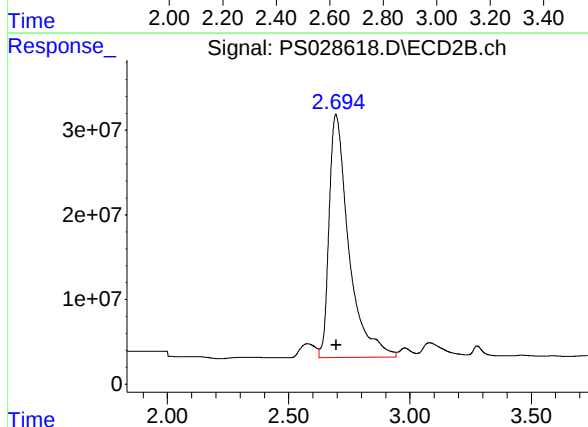
ClientSampleId :

HSTDCCC750

Manual Integrations

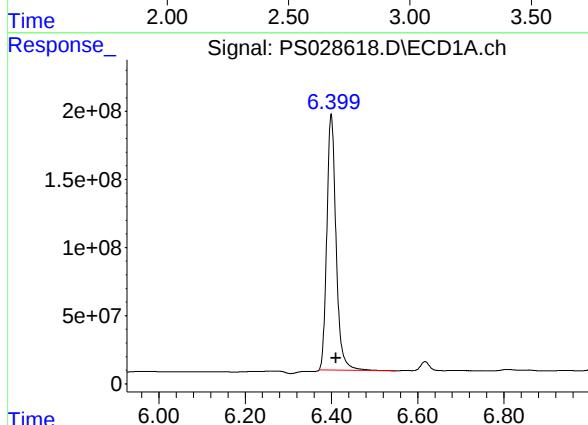
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



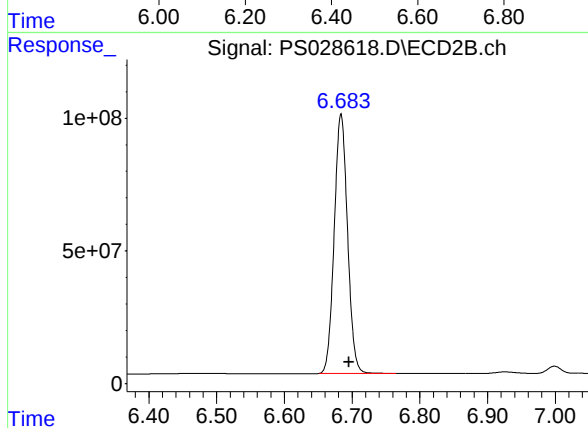
#1 Dalapon

R.T.: 2.695 min
Delta R.T.: -0.002 min
Response: 1621541640
Conc: 670.08 ng/ml



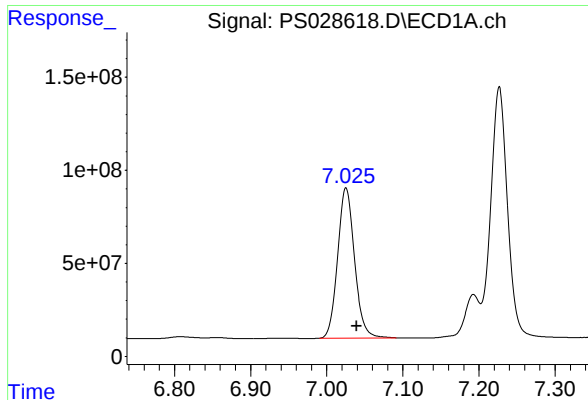
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.400 min
Delta R.T.: -0.011 min
Response: 2788111636
Conc: 747.22 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.684 min
Delta R.T.: -0.011 min
Response: 1333584244
Conc: 690.12 ng/ml



#3 4-Nitrophenol

R.T.: 7.025 min
Delta R.T.: -0.014 min
Response: 1242347237
Conc: 731.46 ng/ml

Instrument :

ECD_S

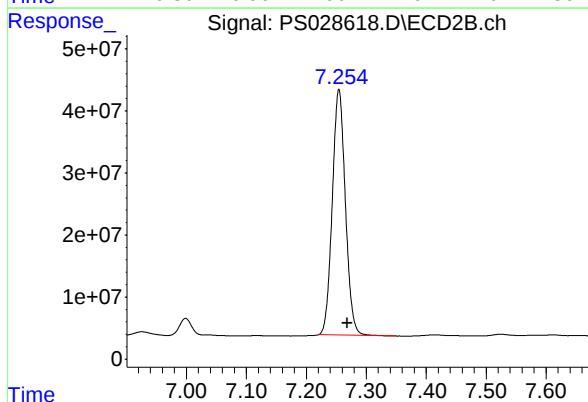
ClientSampleId :

HSTDCCC750

Manual Integrations

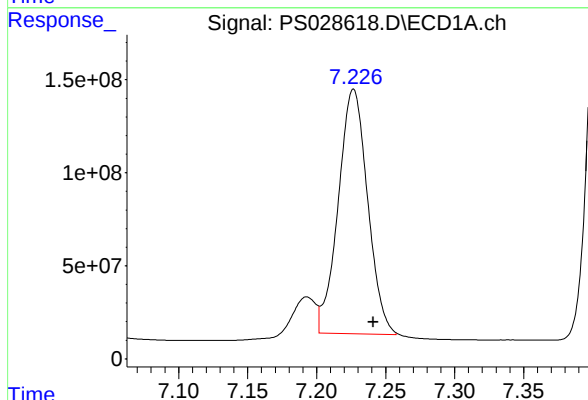
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



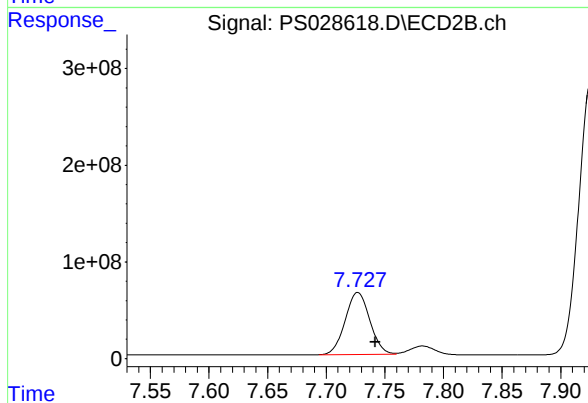
#3 4-Nitrophenol

R.T.: 7.254 min
Delta R.T.: -0.014 min
Response: 599363657
Conc: 694.19 ng/ml



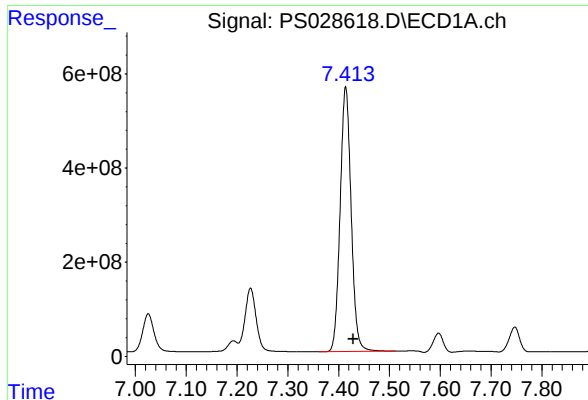
#4 2,4-DCAA

R.T.: 7.226 min
Delta R.T.: -0.015 min
Response: 1943595422
Conc: 760.44 ng/ml m



#4 2,4-DCAA

R.T.: 7.727 min
Delta R.T.: -0.015 min
Response: 940227153
Conc: 727.56 ng/ml m



#5 DICAMBA

R.T.: 7.414 min
Delta R.T.: -0.015 min
Response: 8451706102
Conc: 772.41 ng/ml

Instrument :

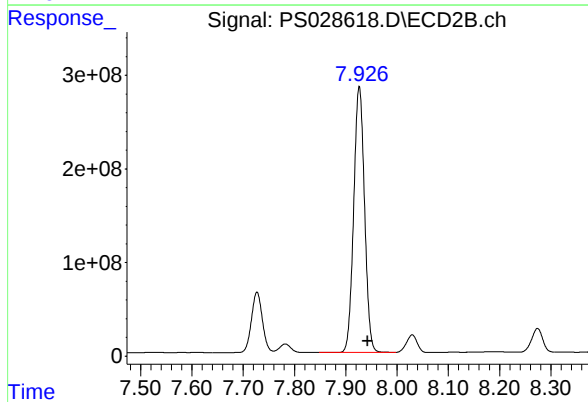
ECD_S

ClientSampleId :

HSTDCCC750

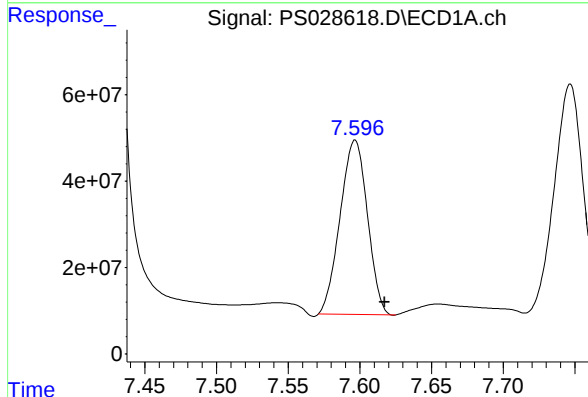
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



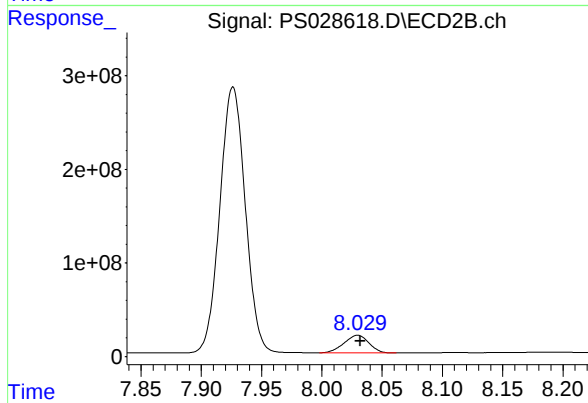
#5 DICAMBA

R.T.: 7.926 min
Delta R.T.: -0.016 min
Response: 4176145270
Conc: 732.13 ng/ml



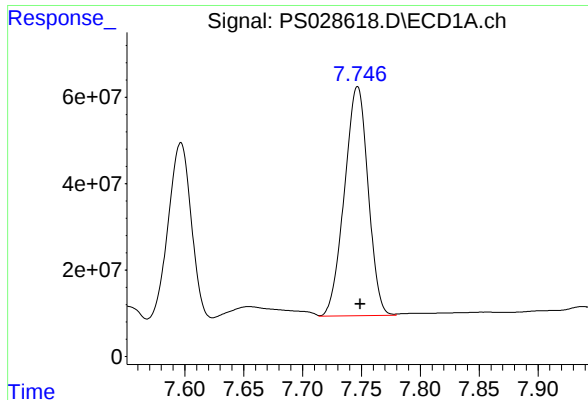
#6 MCP

R.T.: 7.597 min
Delta R.T.: -0.021 min
Response: 535067197
Conc: 76.06 ug/ml



#6 MCP

R.T.: 8.030 min
Delta R.T.: -0.002 min
Response: 272313716
Conc: 63.31 ug/ml



#7 MCPA

R.T.: 7.747 min
Delta R.T.: -0.002 min
Response: 742616325
Conc: 72.77 ug/ml

Instrument :

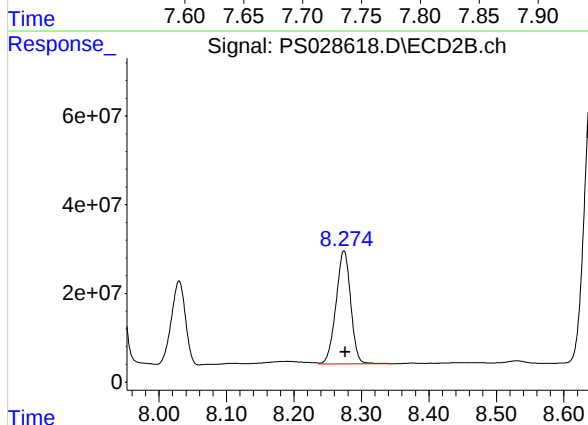
ECD_S

ClientSampleId :

HSTDCCC750

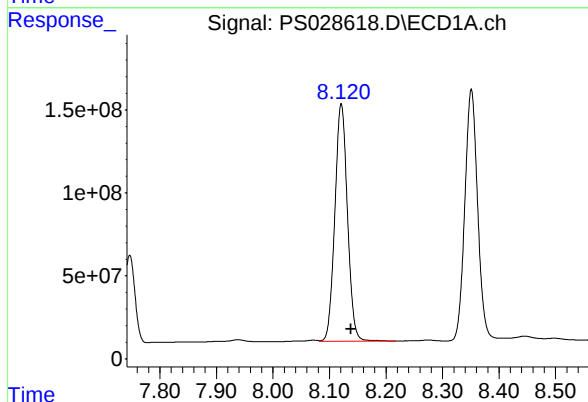
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



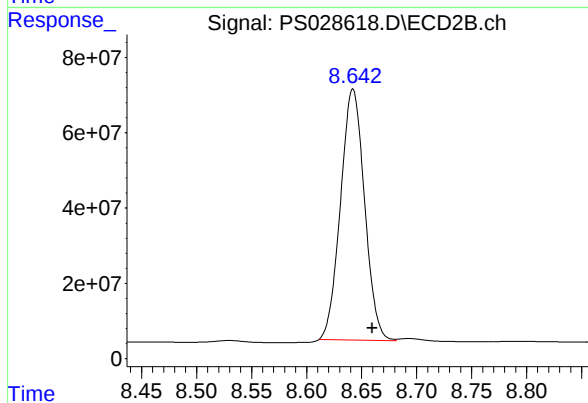
#7 MCPA

R.T.: 8.274 min
Delta R.T.: -0.002 min
Response: 385702318
Conc: 62.28 ug/ml



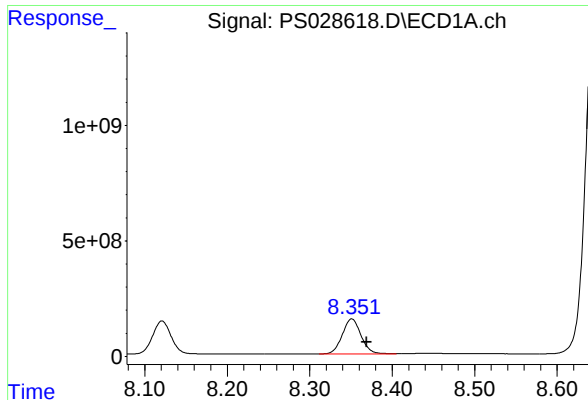
#8 DICHLORPROP

R.T.: 8.121 min
Delta R.T.: -0.018 min
Response: 2220163354
Conc: 752.25 ng/ml



#8 DICHLORPROP

R.T.: 8.642 min
Delta R.T.: -0.017 min
Response: 1012654958
Conc: 693.33 ng/ml



#9 2,4-D

R.T.: 8.351 min
Delta R.T.: -0.018 min
Response: 2392844828
Conc: 748.48 ng/ml

Instrument :

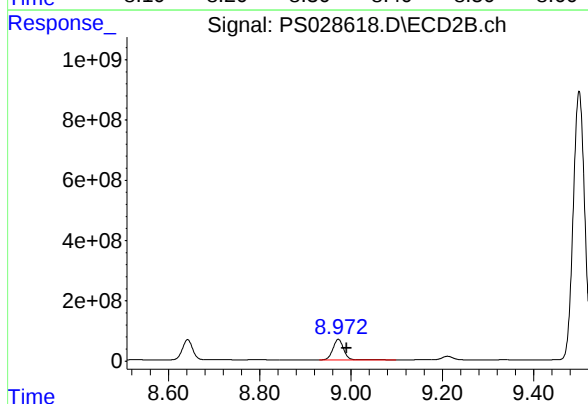
ECD_S

ClientSampleId :

HSTDCCC750

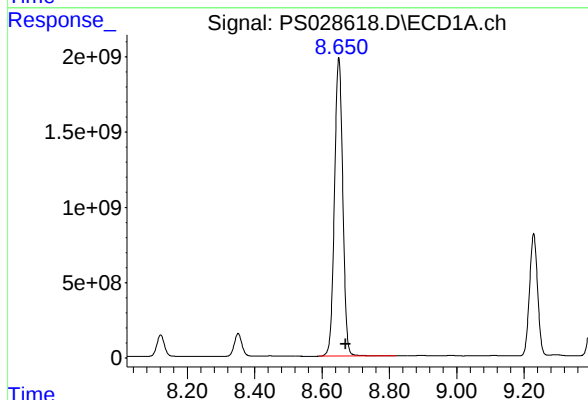
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



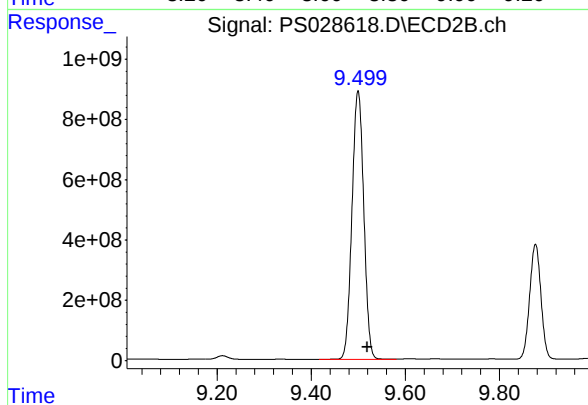
#9 2,4-D

R.T.: 8.972 min
Delta R.T.: -0.018 min
Response: 1102828504
Conc: 704.43 ng/ml



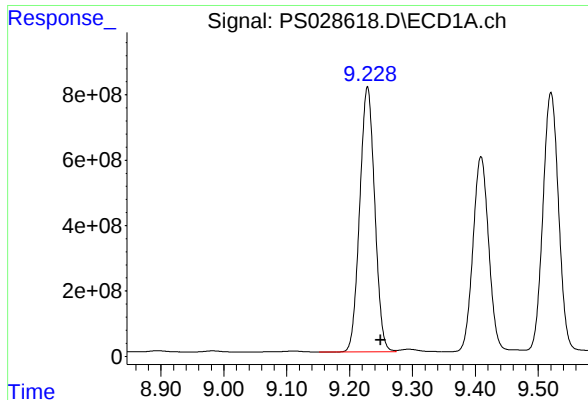
#10 Pentachlorophenol

R.T.: 8.650 min
Delta R.T.: -0.021 min
Response: 33968063403
Conc: 813.88 ng/ml



#10 Pentachlorophenol

R.T.: 9.500 min
Delta R.T.: -0.020 min
Response: 15484397489
Conc: 772.47 ng/ml



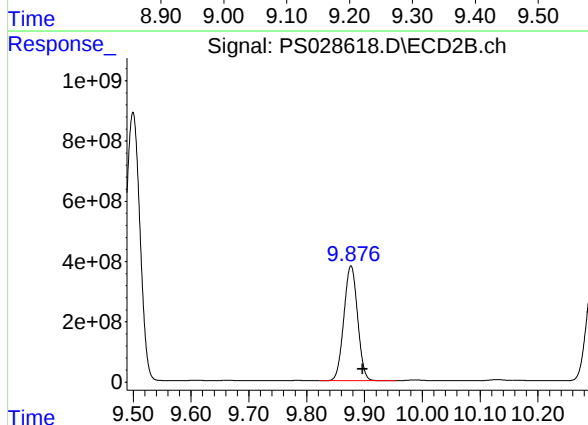
#11 2,4,5-TP (SILVEX)

R.T.: 9.228 min
Delta R.T.: -0.021 min
Response: 13426878968
Conc: 772.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

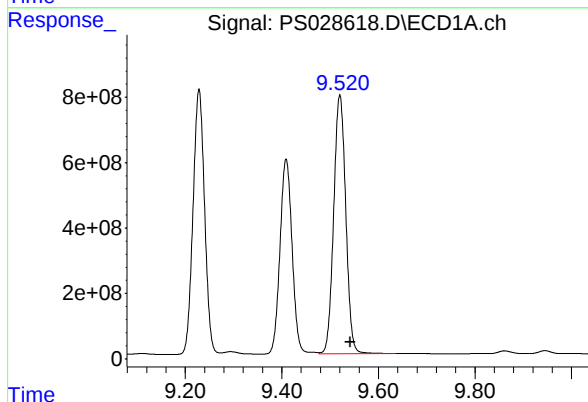
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



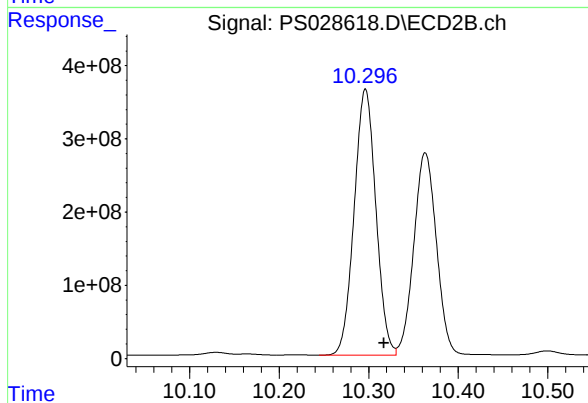
#11 2,4,5-TP (SILVEX)

R.T.: 9.877 min
Delta R.T.: -0.020 min
Response: 6323764553
Conc: 749.41 ng/ml



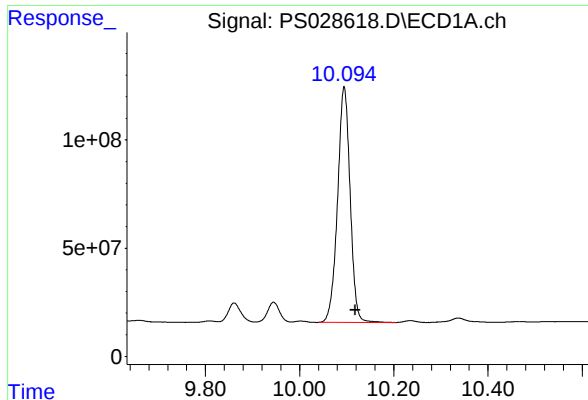
#12 2,4,5-T

R.T.: 9.520 min
Delta R.T.: -0.022 min
Response: 13722029833
Conc: 772.00 ng/ml



#12 2,4,5-T

R.T.: 10.296 min
Delta R.T.: -0.021 min
Response: 6126338507
Conc: 730.86 ng/ml



#13 2,4-DB

R.T.: 10.095 min
Delta R.T.: -0.024 min
Response: 2015325407
Conc: 739.40 ng/ml

Instrument :

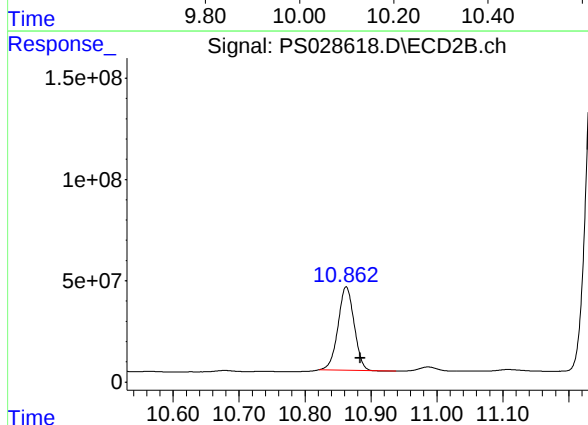
ECD_S

ClientSampleId :

HSTDCCC750

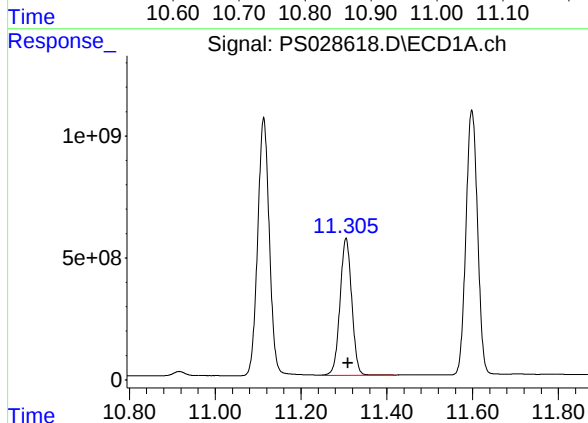
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



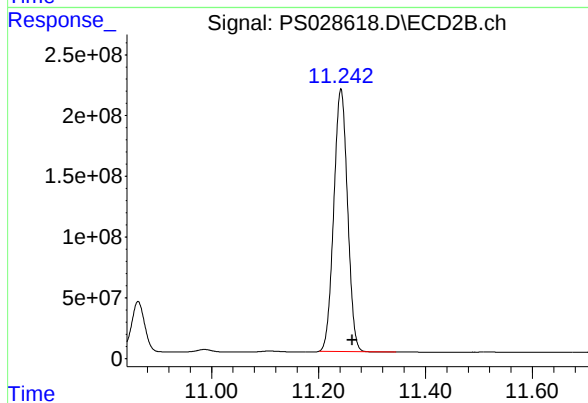
#13 2,4-DB

R.T.: 10.863 min
Delta R.T.: -0.021 min
Response: 696607594
Conc: 664.87 ng/ml



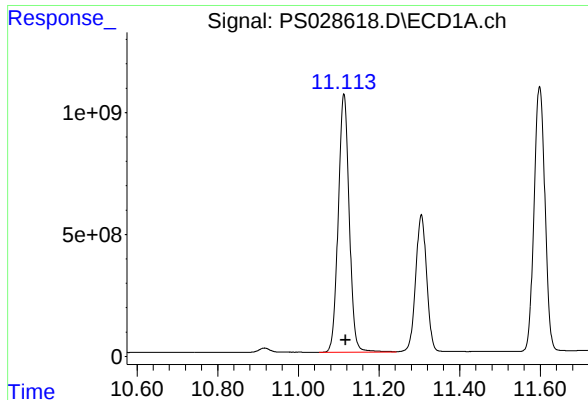
#14 DINOSEB

R.T.: 11.305 min
Delta R.T.: -0.004 min
Response: 10645992580
Conc: 746.68 ng/ml



#14 DINOSEB

R.T.: 11.242 min
Delta R.T.: -0.021 min
Response: 3857706511
Conc: 697.79 ng/ml



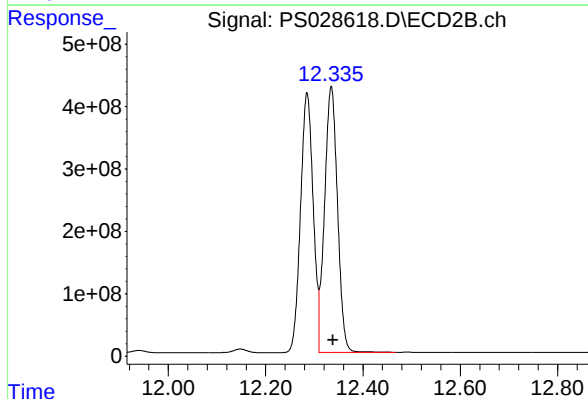
#15 Picloram

R.T.: 11.113 min
Delta R.T.: -0.004 min
Response: 19948224989
Conc: 708.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

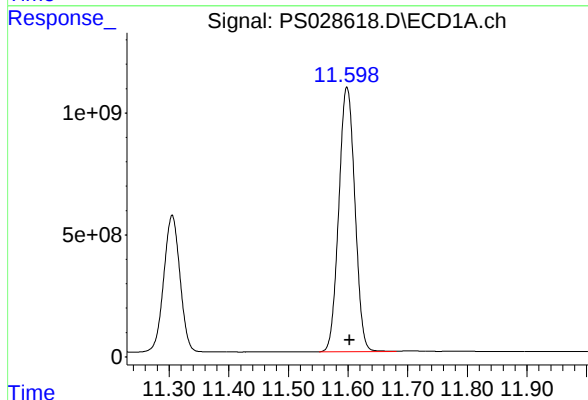
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



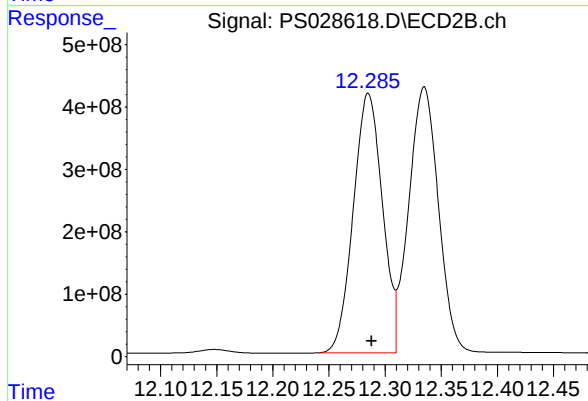
#15 Picloram

R.T.: 12.335 min
Delta R.T.: -0.003 min
Response: 7862016703
Conc: 694.58 ng/ml



#16 DCPA

R.T.: 11.598 min
Delta R.T.: -0.005 min
Response: 20346675892
Conc: 773.24 ng/ml



#16 DCPA

R.T.: 12.285 min
Delta R.T.: -0.003 min
Response: 7504192249
Conc: 773.75 ng/ml

Analytical Sequence

Client: Chemtech Consulting Group	SDG No.: P4495
Project: NJ Soil PT	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 11/13/2024 11/13/2024

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	11/13/2024	11:20	PS028487.D	7.24	0.00
HSTDICC200	HSTDICC200	11/13/2024	11:44	PS028488.D	7.24	0.00
HSTDICC500	HSTDICC500	11/13/2024	12:09	PS028489.D	7.24	0.00
HSTDICC750	HSTDICC750	11/13/2024	12:34	PS028490.D	7.24	0.00
HSTDICC1000	HSTDICC1000	11/13/2024	12:58	PS028491.D	7.24	0.00
HSTDICC1500	HSTDICC1500	11/13/2024	13:23	PS028492.D	7.24	0.00
IBLK	IBLK	11/14/2024	11:38	PS028533.D	7.24	0.00
HSTDCCC750	HSTDCCC750	11/14/2024	12:02	PS028534.D	7.24	0.00
PB164971BL	PB164971BL	11/14/2024	16:35	PS028535.D	7.24	0.00
PB164971BS	PB164971BS	11/14/2024	17:00	PS028536.D	7.24	0.00
BP-F-2MS	P4821-05MS	11/14/2024	18:14	PS028539.D	7.24	0.00
BP-F-2MSD	P4821-05MSD	11/14/2024	18:38	PS028540.D	7.24	0.00
IBLK	IBLK	11/14/2024	20:16	PS028544.D	7.24	0.00
HSTDCCC750	HSTDCCC750	11/14/2024	20:40	PS028545.D	7.24	0.00
IBLK	IBLK	11/25/2024	09:50	PS028613.D	7.23	0.00
HSTDCCC750	HSTDCCC750	11/25/2024	10:14	PS028614.D	7.23	0.00
PT-HERB-SOIL	P4495-17	11/25/2024	10:39	PS028615.D	7.22	0.00
PT-HERB-SOILRE	P4495-17RE	11/25/2024	11:03	PS028616.D	7.22	0.00
IBLK	IBLK	11/25/2024	11:27	PS028617.D	7.23	0.00
HSTDCCC750	HSTDCCC750	11/25/2024	11:51	PS028618.D	7.23	0.00

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Instrument ID: ECD_S

GC Column: RTX-CLP2

ID: 0.32 (mm)

Inst. Calib. Date(s): 11/13/2024

11/13/2024

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	11/13/2024	11:20	PS028487.D	7.74	0.00
HSTDICC200	HSTDICC200	11/13/2024	11:44	PS028488.D	7.74	0.00
HSTDICC500	HSTDICC500	11/13/2024	12:09	PS028489.D	7.74	0.00
HSTDICC750	HSTDICC750	11/13/2024	12:34	PS028490.D	7.74	0.00
HSTDICC1000	HSTDICC1000	11/13/2024	12:58	PS028491.D	7.74	0.00
HSTDICC1500	HSTDICC1500	11/13/2024	13:23	PS028492.D	7.74	0.00
IBLK	IBLK	11/14/2024	11:38	PS028533.D	7.74	0.00
HSTDCCC750	HSTDCCC750	11/14/2024	12:02	PS028534.D	7.74	0.00
PB164971BL	PB164971BL	11/14/2024	16:35	PS028535.D	7.74	0.00
PB164971BS	PB164971BS	11/14/2024	17:00	PS028536.D	7.74	0.00
BP-F-2MS	P4821-05MS	11/14/2024	18:14	PS028539.D	7.74	0.00
BP-F-2MSD	P4821-05MSD	11/14/2024	18:38	PS028540.D	7.74	0.00
IBLK	IBLK	11/14/2024	20:16	PS028544.D	7.74	0.00
HSTDCCC750	HSTDCCC750	11/14/2024	20:40	PS028545.D	7.74	0.00
IBLK	IBLK	11/25/2024	09:50	PS028613.D	7.73	0.00
HSTDCCC750	HSTDCCC750	11/25/2024	10:14	PS028614.D	7.73	0.00
PT-HERB-SOIL	P4495-17	11/25/2024	10:39	PS028615.D	7.73	0.00
PT-HERB-SOILRE	P4495-17RE	11/25/2024	11:03	PS028616.D	7.73	0.00
IBLK	IBLK	11/25/2024	11:27	PS028617.D	7.73	0.00
HSTDCCC750	HSTDCCC750	11/25/2024	11:51	PS028618.D	7.73	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

BP-F-2MS

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4821-05MS

Date(s) Analyzed: 11/14/2024

11/14/2024

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		
2,4,5-T	1	9.54	9.49	9.59	131	0.8
	2	10.31	10.26	10.36	130	
2,4,5-TP(Silvex)	1	9.25	9.20	9.30	129	0.8
	2	9.89	9.84	9.94	130	
2,4-D	1	8.37	8.32	8.42	157	1.9
	2	8.99	8.94	9.04	154	
2,4-DB	1	10.12	10.07	10.17	115	2.6
	2	10.88	10.83	10.93	118	
4-Nitrophenol	1	7.04	6.99	7.09	126	3.9
	2	7.27	7.22	7.32	131	
3,5-DICHLOROBENZOIC ACID	1	6.41	6.36	6.46	141	8.1
	2	6.69	6.64	6.74	130	
Dalapon	1	2.63	2.58	2.68	75.0	35.2
	2	2.70	2.65	2.75	107	
MCPA	1	7.76	7.71	7.81	12.7	1.6
	2	8.28	8.23	8.33	12.9	
DICHLORPROP	1	8.14	8.09	8.19	136	5.3
	2	8.66	8.61	8.71	129	
Pentachlorophenol	1	8.67	8.62	8.72	116	5.3
	2	9.52	9.47	9.57	110	
PICLORAM	1	11.14	11.09	11.19	113	7.3
	2	12.36	12.31	12.41	105	
DICAMBA	1	7.43	7.38	7.48	142	2.1
	2	7.94	7.89	7.99	139	
MCPP	1	7.61	7.56	7.66	11.9	0.8
	2	8.04	7.99	8.09	12.0	
DCPA	1	11.62	11.57	11.67	118	21.9
	2	12.31	12.26	12.36	147	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

BP-F-2MSD

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4821-05MSD

Date(s) Analyzed: 11/14/2024

11/14/2024

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		
Dalapon	1	2.63	2.58	2.68	76.8	27.2
	2	2.70	2.65	2.75	101	
MCPA	1	7.76	7.71	7.81	12.9	1.5
	2	8.28	8.23	8.33	13.1	
DICHLORPROP	1	8.14	8.09	8.19	137	4.5
	2	8.66	8.61	8.71	131	
2,4-D	1	8.37	8.32	8.42	159	1.9
	2	8.99	8.94	9.04	156	
2,4,5-TP(Silvex)	1	9.25	9.20	9.30	131	0
	2	9.89	9.84	9.94	131	
2,4,5-T	1	9.54	9.49	9.59	134	2.3
	2	10.31	10.26	10.36	131	
2,4-DB	1	10.12	10.07	10.17	118	1.7
	2	10.88	10.83	10.93	120	
Pentachlorophenol	1	8.67	8.62	8.72	118	6.1
	2	9.52	9.47	9.57	111	
4-Nitrophenol	1	7.04	6.99	7.09	128	3.8
	2	7.27	7.22	7.32	133	
PICLORAM	1	11.14	11.09	11.19	116	8.1
	2	12.36	12.31	12.41	107	
3,5-DICHLOROBENZOIC ACID	1	6.41	6.36	6.46	143	8.8
	2	6.69	6.64	6.74	131	
DICAMBA	1	7.43	7.38	7.48	143	2.1
	2	7.94	7.89	7.99	140	
MCPD	1	7.61	7.56	7.66	11.9	2.5
	2	8.04	7.99	8.09	12.2	
DCPA	1	11.62	11.57	11.67	120	20.9
	2	12.31	12.26	12.36	148	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164971BS

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: PB164971BS

Date(s) Analyzed: 11/14/2024

11/14/2024

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		
2,4,5-TP(Silvex)	1	9.25	9.20	9.30	173	1.2
	2	9.89	9.84	9.94	171	
2,4,5-T	1	9.54	9.49	9.59	172	1.8
	2	10.31	10.26	10.36	169	
Dalapon	1	2.63	2.58	2.68	151	2
	2	2.70	2.65	2.75	148	
MCPA	1	7.76	7.71	7.81	15.9	1.9
	2	8.29	8.24	8.34	15.6	
DICHLORPROP	1	8.14	8.09	8.19	170	1.2
	2	8.66	8.61	8.71	168	
2,4-D	1	8.37	8.32	8.42	169	0
	2	8.99	8.94	9.04	169	
2,4-DB	1	10.12	10.07	10.17	166	0.6
	2	10.88	10.83	10.93	165	
Dinoseb	1	11.33	11.28	11.38	163	3.1
	2	11.26	11.21	11.31	158	
Pentachlorophenol	1	8.67	8.62	8.72	182	3.4
	2	9.52	9.47	9.57	176	
4-Nitrophenol	1	7.04	6.99	7.09	159	0.6
	2	7.27	7.22	7.32	160	
PICLORAM	1	11.14	11.09	11.19	141	5.1
	2	12.36	12.31	12.41	134	
3,5-DICHLOROBENZOIC ACID	1	6.41	6.36	6.46	169	1.8
	2	6.69	6.64	6.74	166	
DICAMBA	1	7.43	7.38	7.48	169	1.2
	2	7.94	7.89	7.99	167	
MCPP	1	7.61	7.56	7.66	16.2	4.4
	2	8.04	7.99	8.09	15.5	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164971BS

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: PB164971BS Date(s) Analyzed: 11/14/2024 11/14/2024

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		
DCPA	1	11.62	11.57	11.67	174	1.7
	2	12.30	12.25	12.35	171	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-HERB-SOIL

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4495-17

Date(s) Analyzed: 11/25/2024 11/25/2024

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
DICHLORPROP	1	8.12	8.07	8.17	203	3.5
	2	8.64	8.59	8.69	196	
2,4-D	1	8.35	8.30	8.40	223	7.4
	2	8.97	8.92	9.02	207	
2,4,5-TP(Silvex)	1	9.23	9.18	9.28	140	3.5
	2	9.88	9.83	9.93	145	
2,4,5-T	1	9.52	9.47	9.57	150	2.6
	2	10.30	10.25	10.35	154	
2,4-DB	1	10.14	10.09	10.19	27.0	157.3
	2	10.86	10.81	10.91	226	
Dinoseb	1	11.31	11.26	11.36	89.5	42.2
	2	11.24	11.19	11.29	58.3	
Pentachlorophenol	1	8.65	8.60	8.70	78.7	20
	2	9.50	9.45	9.55	64.4	
DICAMBA	1	7.41	7.36	7.46	158	2.6
	2	7.93	7.88	7.98	154	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-HERB-SOILRE

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4495-17RE

Date(s) Analyzed: 11/25/2024

11/25/2024

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP

ID: 0.32 (mm)

GC Column:(2): RTX-CLP2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
DICHLORPROP	1	8.12	8.07	8.17	203	0.5
	2	8.64	8.59	8.69	202	
2,4-D	1	8.35	8.30	8.40	224	6.5
	2	8.97	8.92	9.02	210	
2,4,5-TP(Silvex)	1	9.23	9.18	9.28	140	2.1
	2	9.88	9.83	9.93	143	
2,4,5-T	1	9.52	9.47	9.57	145	9.8
	2	10.30	10.25	10.35	160	
2,4-DB	1	10.14	10.09	10.19	38.6	141.6
	2	10.86	10.81	10.91	226	
Dinoseb	1	11.31	11.26	11.36	83.6	39.5
	2	11.24	11.19	11.29	56.0	
Pentachlorophenol	1	8.65	8.60	8.70	74.3	11.5
	2	9.50	9.45	9.55	66.2	
DICAMBA	1	7.41	7.36	7.46	159	1.3
	2	7.93	7.88	7.98	157	



QC SAMPLE DATA

- 1
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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164971BL	SDG No.:	P4495
Lab Sample ID:	PB164971BL	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028535.D	1	11/14/24 09:05	11/14/24 16:35	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
93-65-2	MCPP	1.00	U	1.00	6.70	ug/Kg
1918-00-9	DICAMBA	8.70	U	8.70	66.9	ug/Kg
75-99-0	DALAPON	24.8	U	24.8	66.9	ug/Kg
94-74-6	MCPA	1.70	U	1.70	6.70	ug/Kg
120-36-5	DICHLORPROP	9.50	U	9.50	66.9	ug/Kg
94-75-7	2,4-D	12.1	U	12.1	66.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.40	U	9.40	66.9	ug/Kg
93-76-5	2,4,5-T	10.1	U	10.1	66.9	ug/Kg
94-82-6	2,4-DB	18.3	U	18.3	66.9	ug/Kg
88-85-7	DINOSEB	12.4	U	12.4	66.9	ug/Kg
87-86-5	Pentachlorophenol	10.5	U	10.5	66.9	ug/Kg
100-02-7	4-Nitrophenol	17.6	U	17.6	66.9	ug/Kg
1918-02-1	PICLORAM	9.50	U	9.50	66.9	ug/Kg
1861-32-1	DCPA	11.7	U	11.7	66.9	ug/Kg
51-36-5	3,5-DICHLOROBENZOIC AC	11.1	U	11.1	66.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	497		10 - 141	99%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164971BL	SDG No.:	P4495
Lab Sample ID:	PB164971BL	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:		Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028535.D	1	11/14/24 09:05	11/14/24 16:35	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS111424\
Data File : PS028535.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Nov 2024 16:35
Operator : AR\AJ
Sample : PB164971BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164971BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 15 00:20:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
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System Monitoring Compounds

4) S	2,4-DCAA	7.239	7.739	1271.3E6	625.1E6	497.402	483.715
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Target Compounds

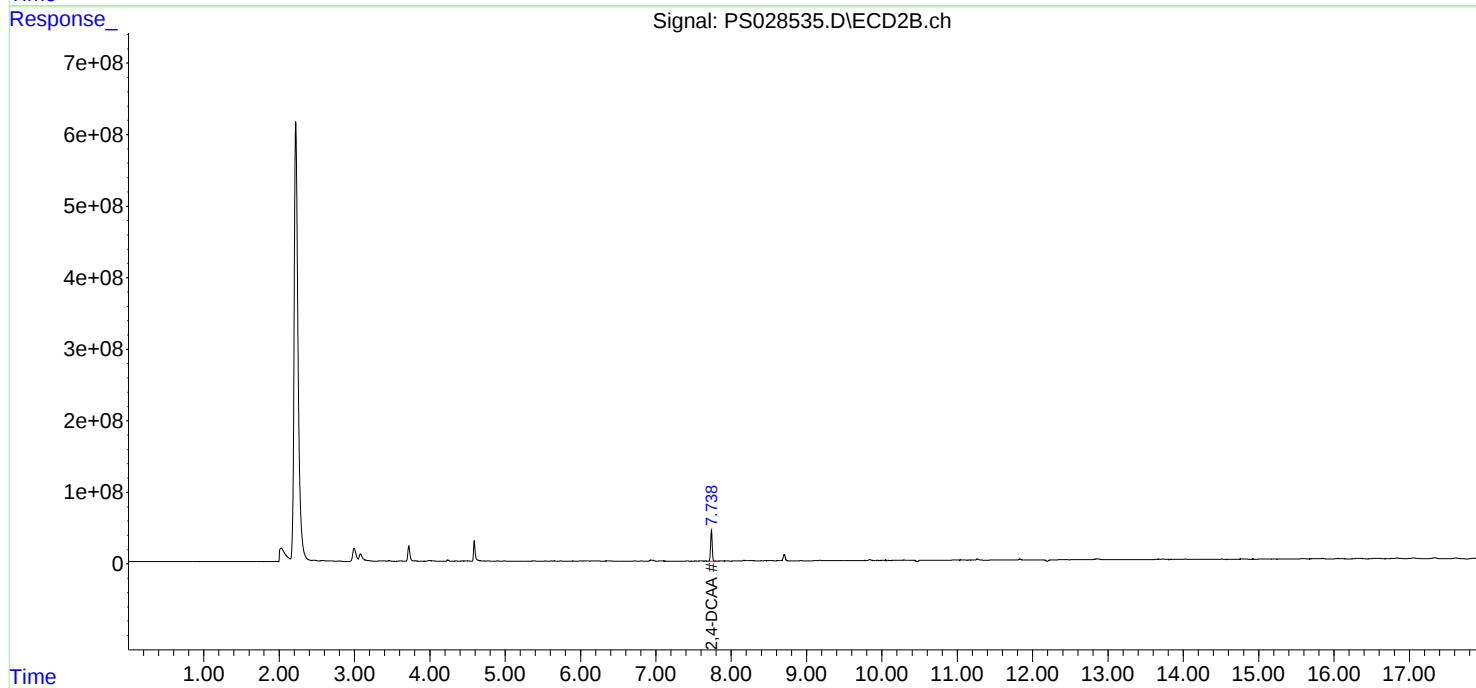
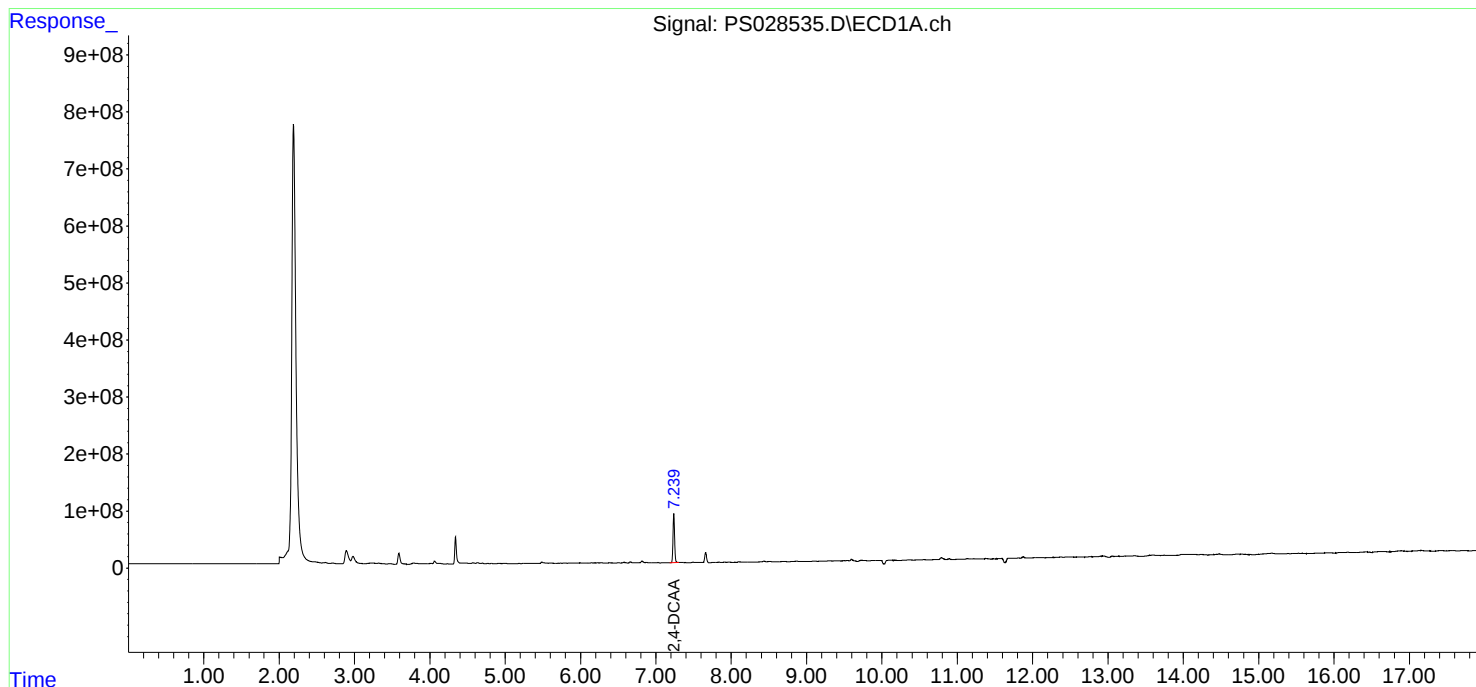
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

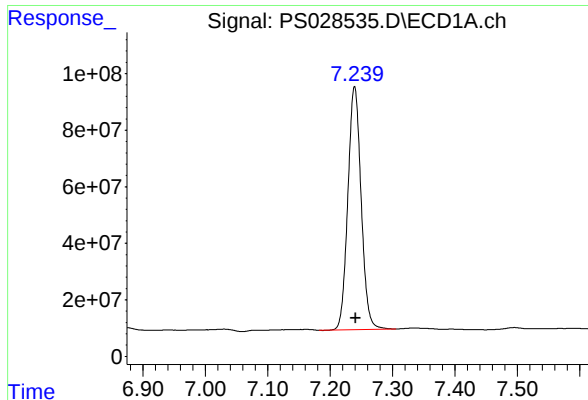
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111424\
Data File : PS028535.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Nov 2024 16:35
Operator : AR\AJ
Sample : PB164971BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164971BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 15 00:20:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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

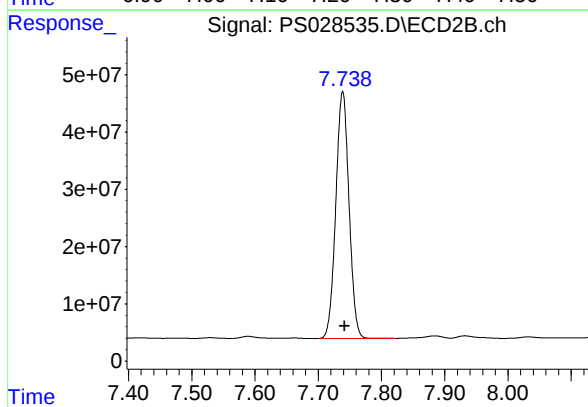




#4 2,4-DCAA

R.T.: 7.239 min
Delta R.T.: -0.002 min
Response: 1271299718
Conc: 497.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164971BL



#4 2,4-DCAA

R.T.: 7.739 min
Delta R.T.: -0.003 min
Response: 625107350
Conc: 483.72 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/13/24
Project:	NJ Soil PT	Date Received:	11/13/24
Client Sample ID:	PIBLK-PS028487.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-PS028487.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028487.D	1		11/13/24	PS111324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.047	U	0.047	0.20	ug/L
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
75-99-0	DALAPON	1.10	U	1.10	2.00	ug/L
94-74-6	MCPA	0.052	U	0.052	0.20	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
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
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
87-86-5	Pentachlorophenol	0.50	U	0.50	2.00	ug/L
100-02-7	4-Nitrophenol	0.53	U	0.53	2.00	ug/L
1918-02-1	PICLORAM	0.50	U	0.50	2.00	ug/L
1861-32-1	DCPA	0.54	U	0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.48	U	0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	548		39 - 175	110%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	11/13/24	
Project:	NJ Soil PT			Date Received:	11/13/24	
Client Sample ID:	PIBLK-PS028487.D			SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028487.D			Matrix:	WATER	
Analytical Method:	SW8151A			% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	Herbicide Group1	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0		PH :			
Prep Method :	SW3510C					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028487.D	1		11/13/24	PS111324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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 OC 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\PS111324\
Data File : PS028487.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Nov 2024 11:20
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 13 13:42:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
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System Monitoring Compounds

4) S	2,4-DCAA	7.240	7.741	1400.5E6	706.9E6	547.971	546.997
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Target Compounds

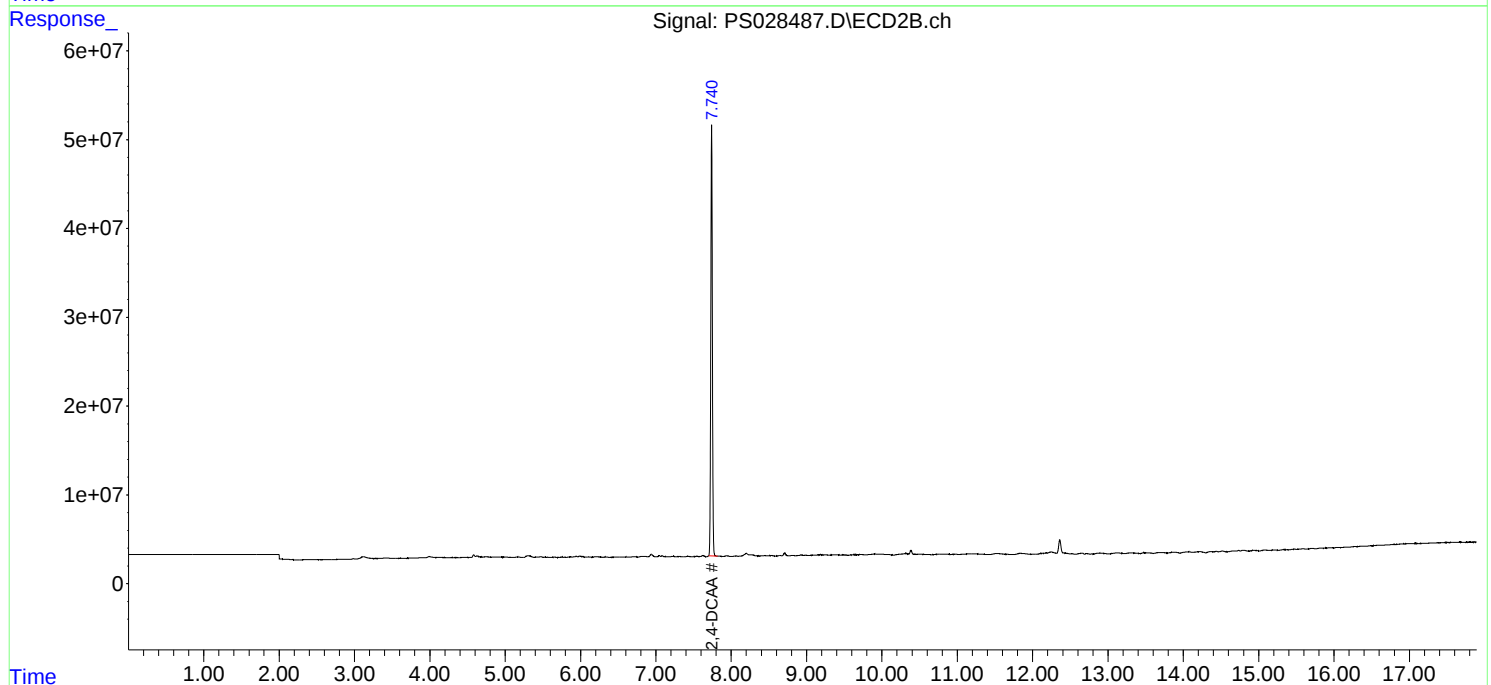
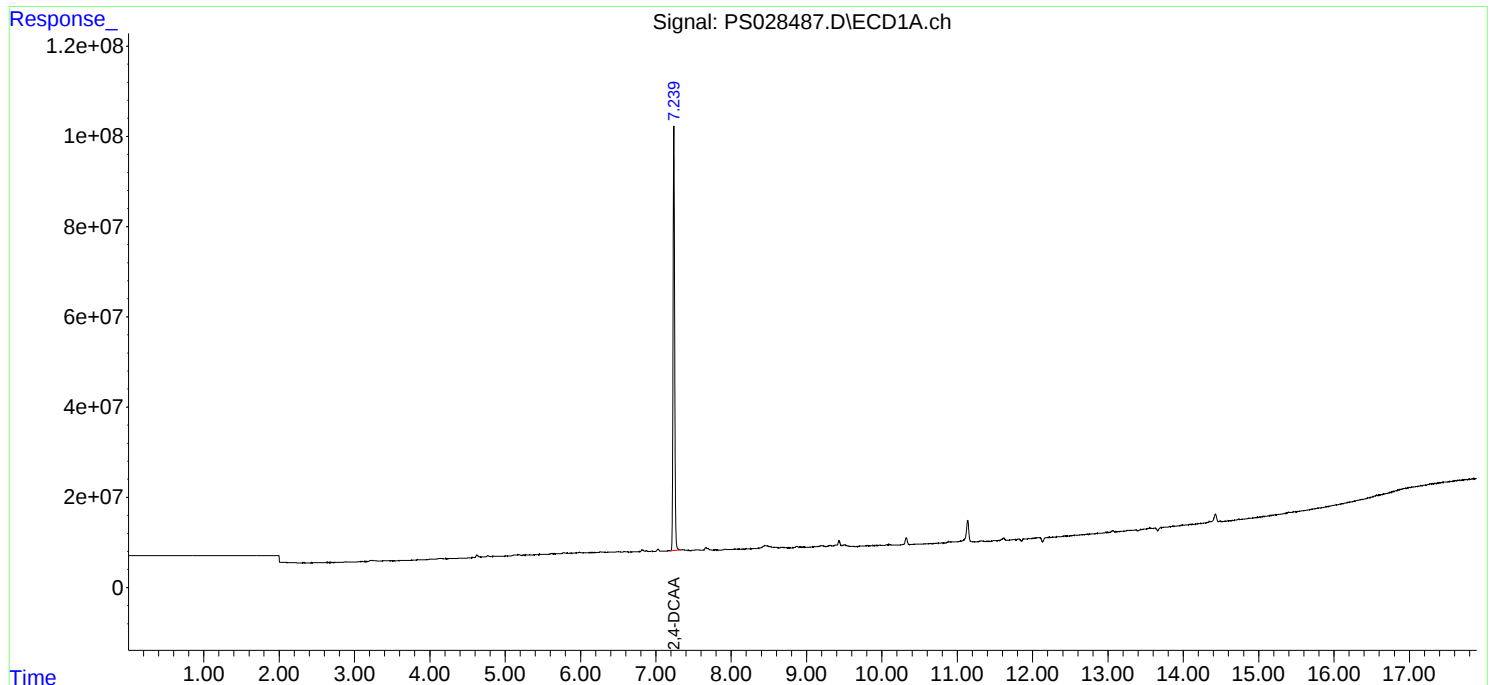
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

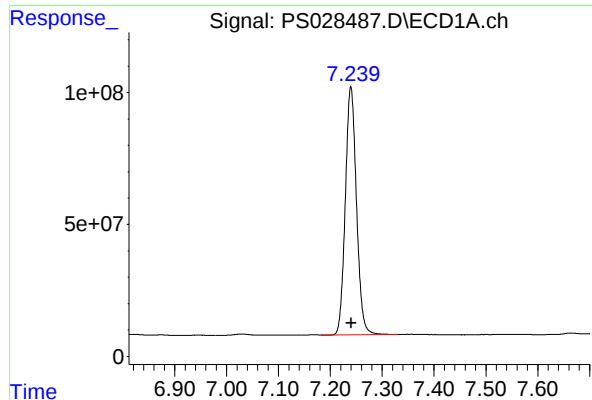
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111324\
Data File : PS028487.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Nov 2024 11:20
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 13 13:42:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#4 2,4-DCAA

R.T.: 7.240 min

Delta R.T.: -0.001 min

Response: 1400548590

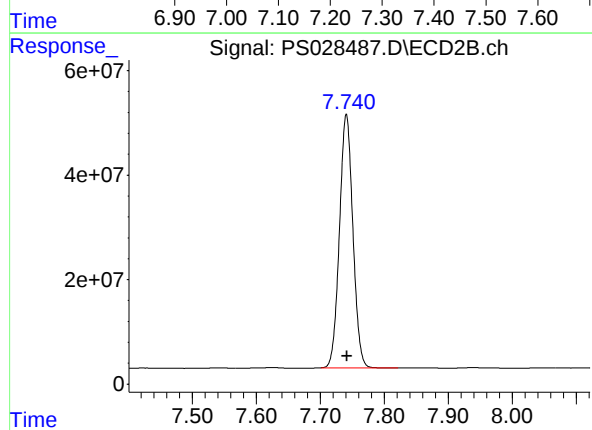
Conc: 547.97 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.741 min

Delta R.T.: -0.001 min

Response: 706886411

Conc: 547.00 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/14/24	
Project:	NJ Soil PT		Date Received:	11/14/24	
Client Sample ID:	PIBLK-PS028533.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028533.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028533.D	1		11/14/24	PS111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.047	U	0.047	0.20	ug/L
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
75-99-0	DALAPON	1.10	U	1.10	2.00	ug/L
94-74-6	MCPA	0.052	U	0.052	0.20	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
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
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
87-86-5	Pentachlorophenol	0.50	U	0.50	2.00	ug/L
100-02-7	4-Nitrophenol	0.53	U	0.53	2.00	ug/L
1918-02-1	PICLORAM	0.50	U	0.50	2.00	ug/L
1861-32-1	DCPA	0.54	U	0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.48	U	0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	588		39 - 175	118%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/14/24
Project:	NJ Soil PT	Date Received:	11/14/24
Client Sample ID:	PIBLK-PS028533.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-PS028533.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :	1.0	Final Vol:	10000
Prep Method :	SW3510C	Test:	Herbicide Group1
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028533.D	1		11/14/24	PS111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS111424\
Data File : PS028533.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Nov 2024 11:38
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 15 00:17:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
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System Monitoring Compounds

4) S	2,4-DCAA	7.242	7.739	1502.5E6	754.4E6	587.866	583.768
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Target Compounds

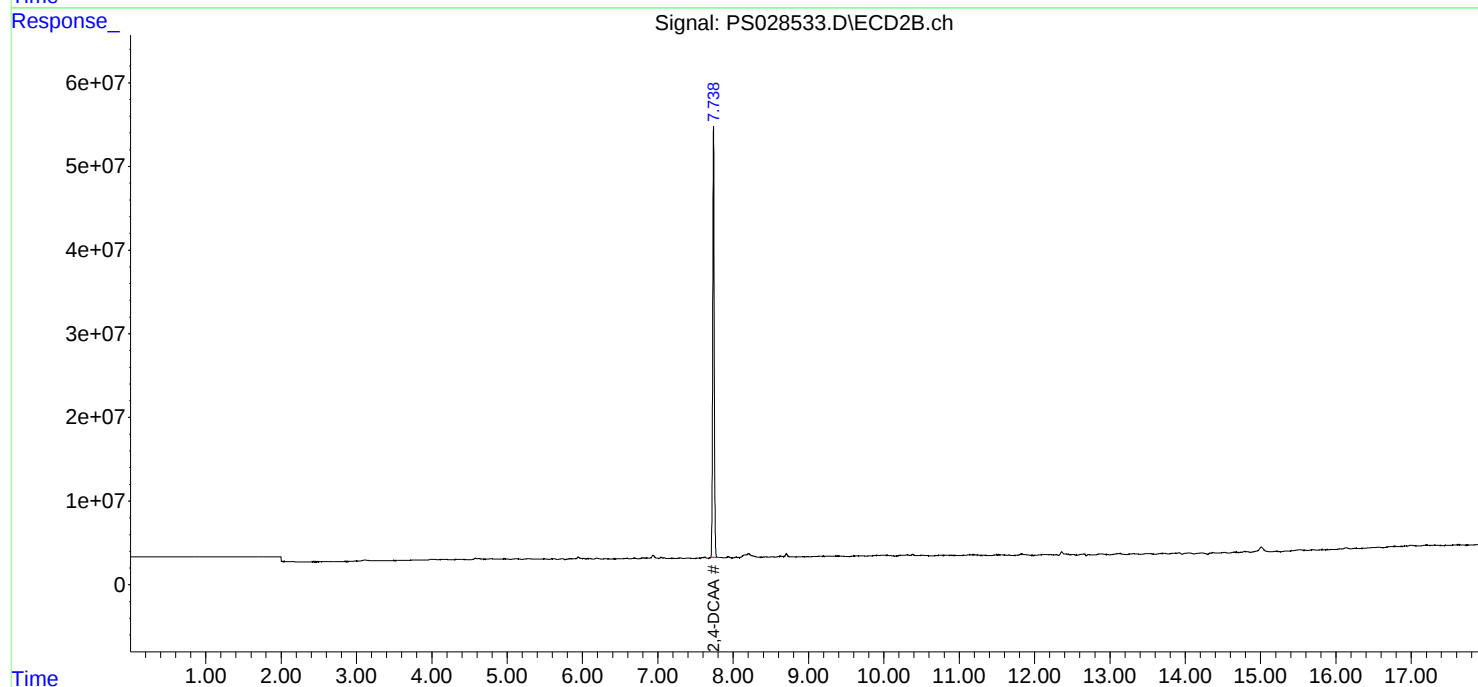
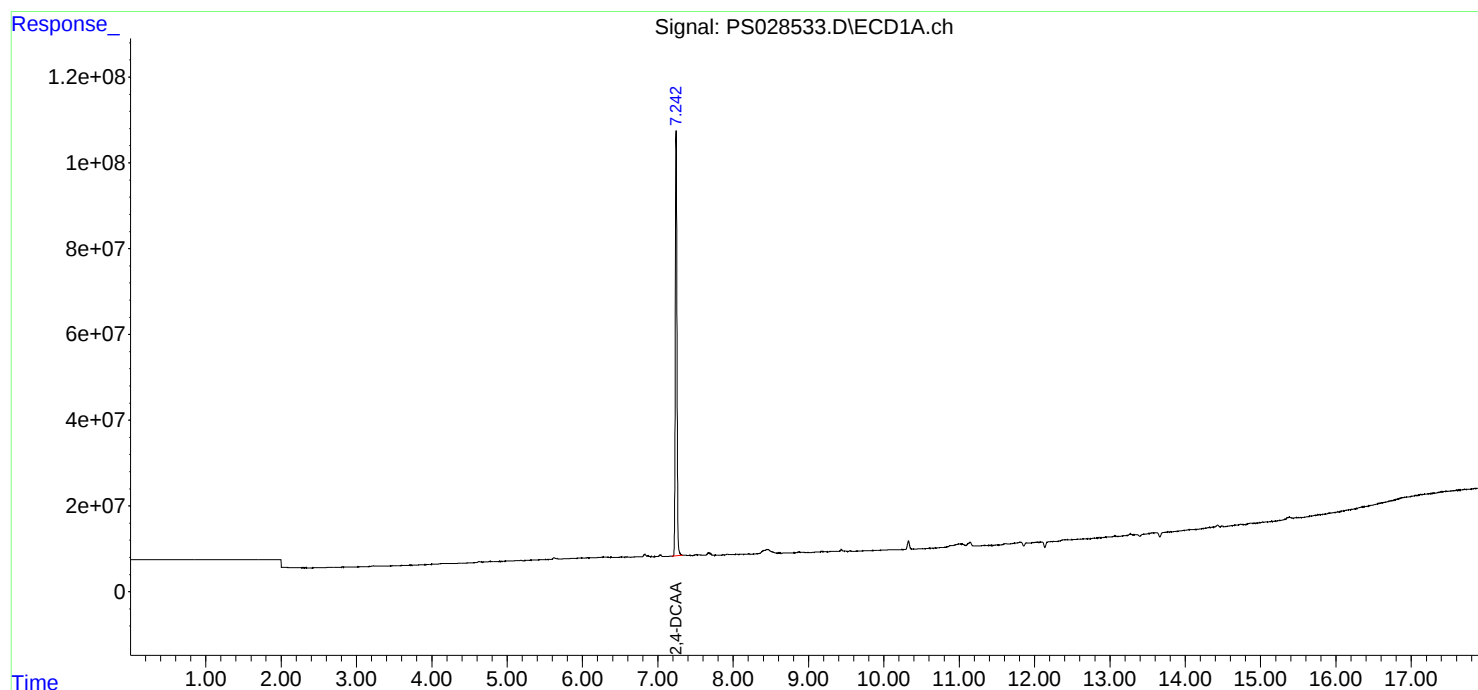
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

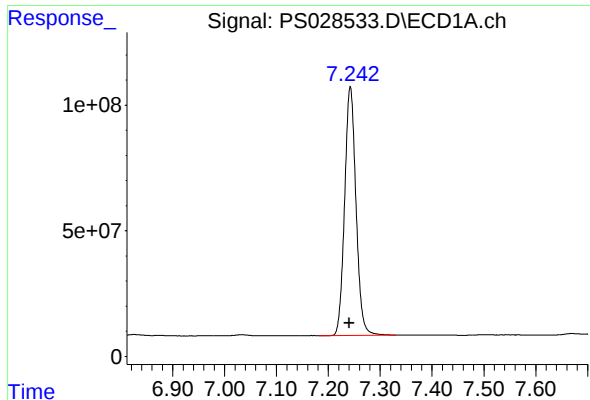
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111424\
Data File : PS028533.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Nov 2024 11:38
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 15 00:17:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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

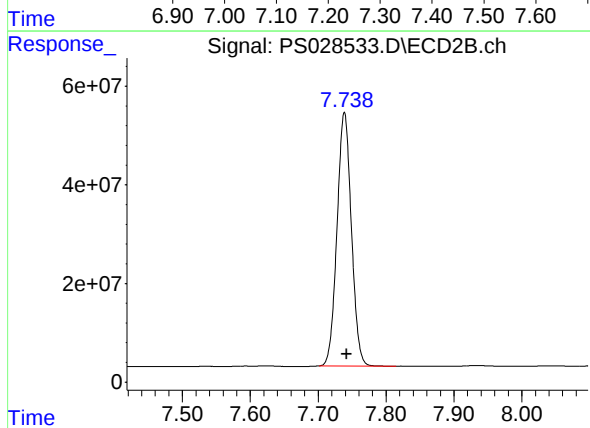




#4 2,4-DCAA

R.T.: 7.242 min
 Delta R.T.: 0.002 min
 Response: 1502516485
 Conc: 587.87 ng/ml

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK



#4 2,4-DCAA

R.T.: 7.739 min
 Delta R.T.: -0.003 min
 Response: 754405643
 Conc: 583.77 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/14/24
Project:	NJ Soil PT	Date Received:	11/14/24
Client Sample ID:	PIBLK-PS028544.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-PS028544.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028544.D	1		11/14/24	PS111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.047	U	0.047	0.20	ug/L
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
75-99-0	DALAPON	1.10	U	1.10	2.00	ug/L
94-74-6	MCPA	0.052	U	0.052	0.20	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
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
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
87-86-5	Pentachlorophenol	0.50	U	0.50	2.00	ug/L
100-02-7	4-Nitrophenol	0.53	U	0.53	2.00	ug/L
1918-02-1	PICLORAM	0.50	U	0.50	2.00	ug/L
1861-32-1	DCPA	0.54	U	0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.48	U	0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	607		39 - 175	121%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/14/24	
Project:	NJ Soil PT		Date Received:	11/14/24	
Client Sample ID:	PIBLK-PS028544.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028544.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028544.D	1		11/14/24	PS111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS111424\
Data File : PS028544.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Nov 2024 20:16
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 15 00:28:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
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System Monitoring Compounds

4) S	2,4-DCAA	7.240	7.739	1551.5E6	775.9E6	607.024	600.428
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Target Compounds

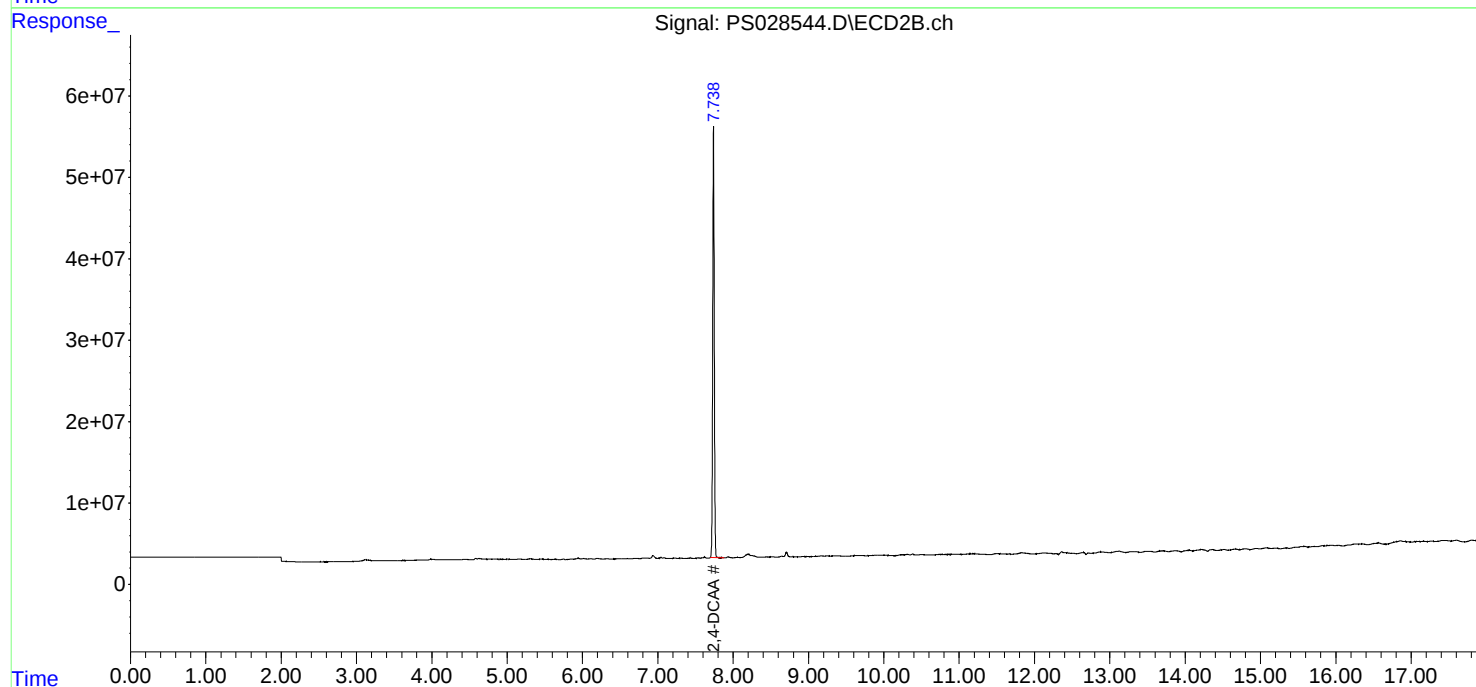
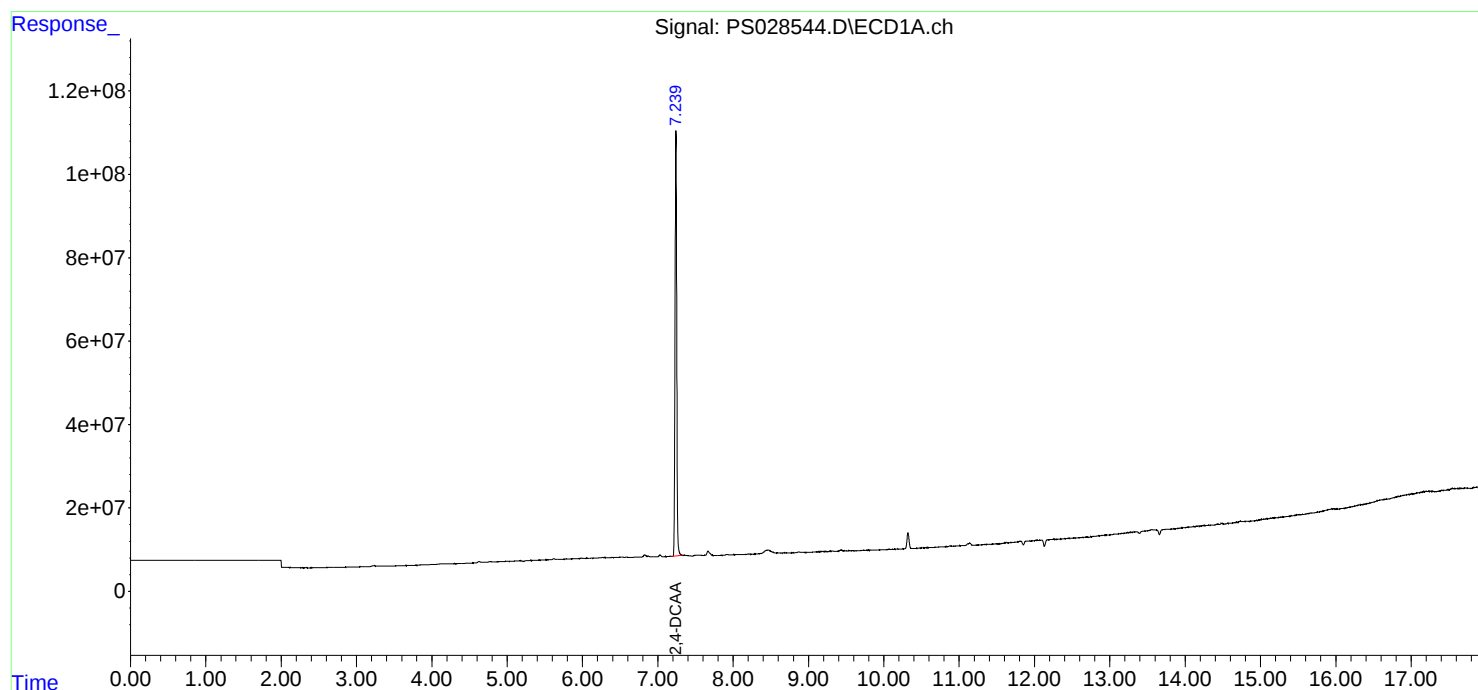
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

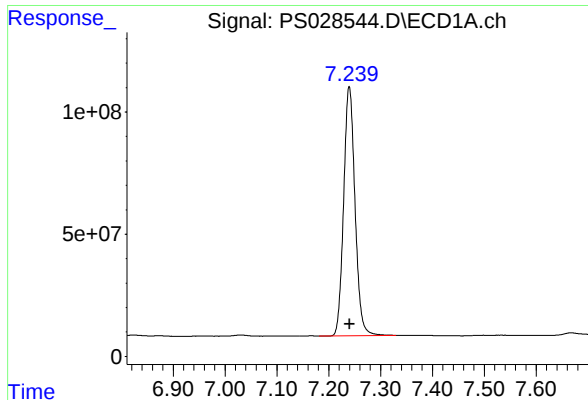
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111424\
Data File : PS028544.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Nov 2024 20:16
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 15 00:28:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#4 2,4-DCAA

R.T.: 7.240 min

Delta R.T.: -0.001 min

Response: 1551480385

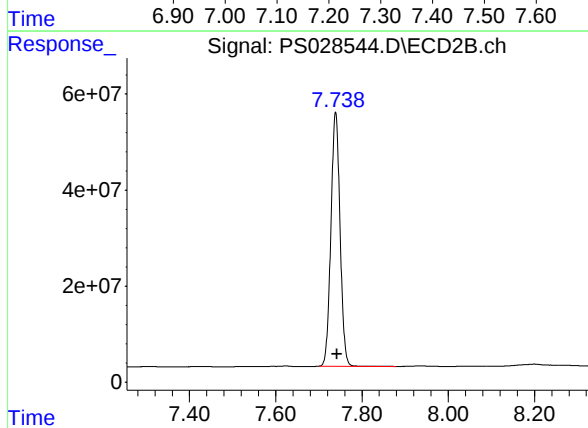
Conc: 607.02 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.739 min

Delta R.T.: -0.003 min

Response: 775936630

Conc: 600.43 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/25/24
Project:	NJ Soil PT	Date Received:	11/25/24
Client Sample ID:	PIBLK-PS028613.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-PS028613.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028613.D	1		11/25/24	PS112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.047	U	0.047	0.20	ug/L
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
75-99-0	DALAPON	1.10	U	1.10	2.00	ug/L
94-74-6	MCPA	0.052	U	0.052	0.20	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
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
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
87-86-5	Pentachlorophenol	0.50	U	0.50	2.00	ug/L
100-02-7	4-Nitrophenol	0.53	U	0.53	2.00	ug/L
1918-02-1	PICLORAM	0.50	U	0.50	2.00	ug/L
1861-32-1	DCPA	0.54	U	0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.48	U	0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	555		39 - 175	111%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	11/25/24	
Project:	NJ Soil PT			Date Received:	11/25/24	
Client Sample ID:	PIBLK-PS028613.D			SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028613.D			Matrix:	WATER	
Analytical Method:	SW8151A			% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	Herbicide Group1	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0		PH :			
Prep Method :	SW3510C					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028613.D	1		11/25/24	PS112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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 OC 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\PS112524\
 Data File : PS028613.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Nov 2024 09:50
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/26/2024
 Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 25 23:47:28 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
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System Monitoring Compounds

4) S	2,4-DCAA	7.226	7.727	1418.2E6	629.7E6	554.884m	487.235m
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Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112524\
Data File : PS028613.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 09:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

I.BLK

Manual Integrations

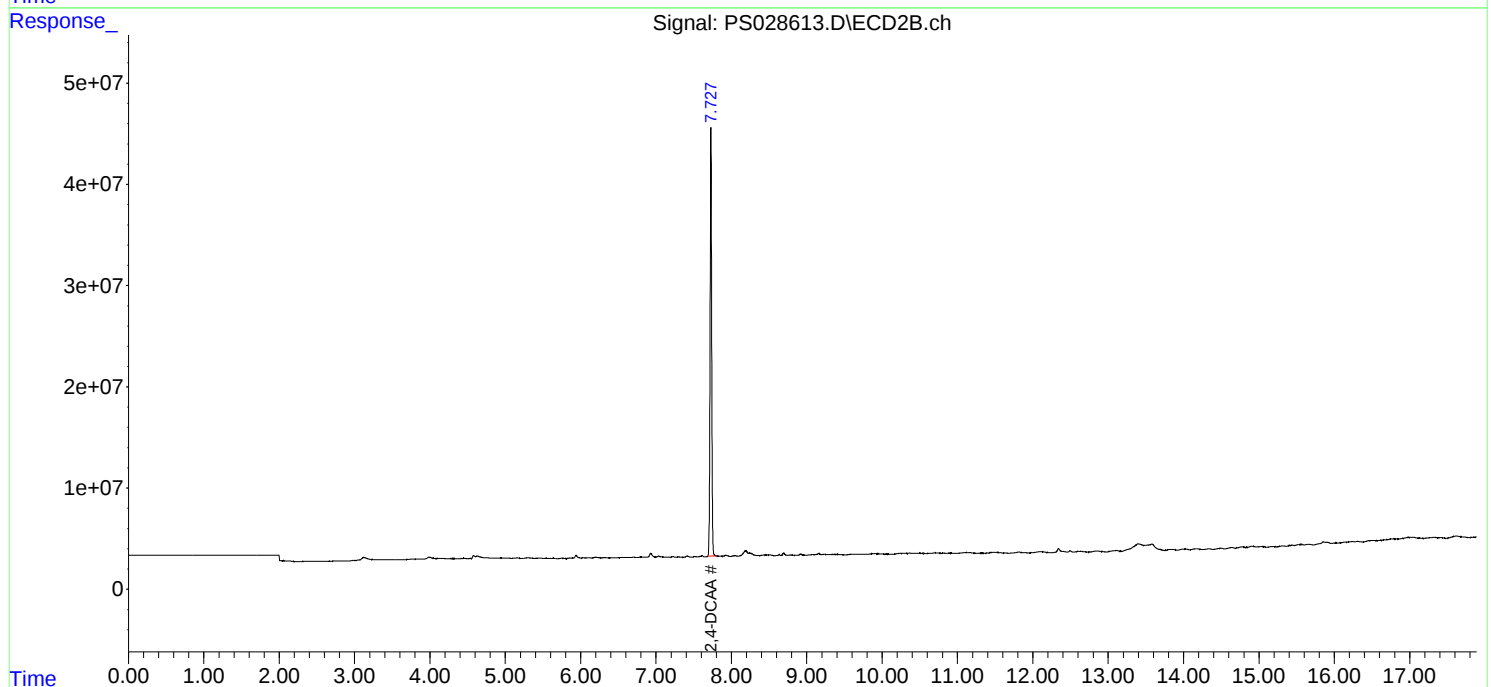
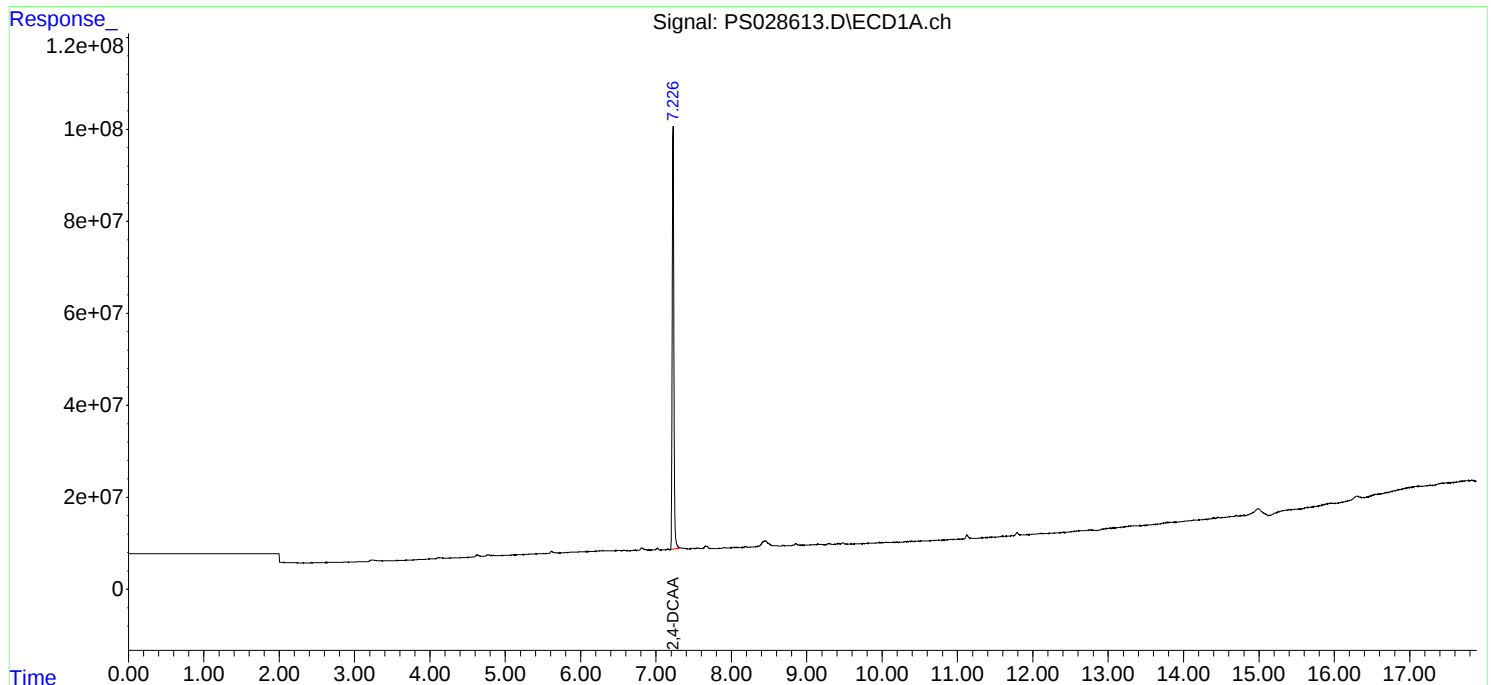
APPROVED

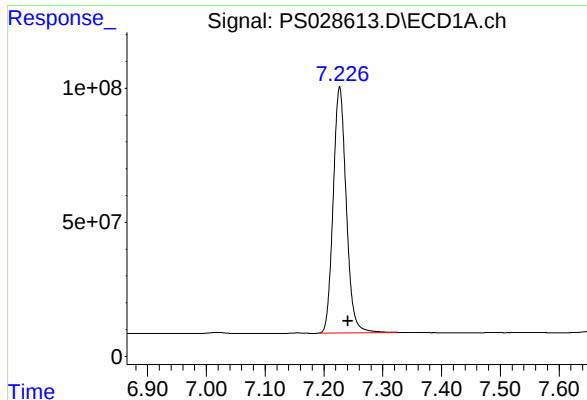
Reviewed By :Yogesh Patel 11/26/2024

Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 23:47:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#4 2,4-DCAA

R.T.: 7.226 min
Delta R.T.: -0.015 min
Response: 1418218832
Conc: 554.88 ng/ml

Instrument :

ECD_S

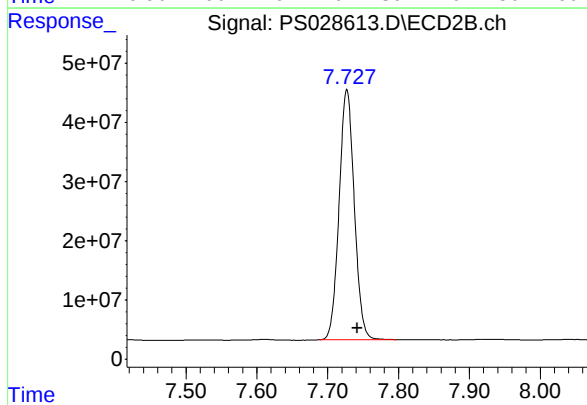
ClientSampleId :

I.BLK

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



#4 2,4-DCAA

R.T.: 7.727 min
Delta R.T.: -0.015 min
Response: 629655797
Conc: 487.23 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/25/24
Project:	NJ Soil PT	Date Received:	11/25/24
Client Sample ID:	PIBLK-PS028617.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-PS028617.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028617.D	1		11/25/24	PS112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.047	U	0.047	0.20	ug/L
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
75-99-0	DALAPON	1.10	U	1.10	2.00	ug/L
94-74-6	MCPA	0.052	U	0.052	0.20	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
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
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
87-86-5	Pentachlorophenol	0.50	U	0.50	2.00	ug/L
100-02-7	4-Nitrophenol	0.53	U	0.53	2.00	ug/L
1918-02-1	PICLORAM	0.50	U	0.50	2.00	ug/L
1861-32-1	DCPA	0.54	U	0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.48	U	0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	557		39 - 175	111%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/25/24
Project:	NJ Soil PT	Date Received:	11/25/24
Client Sample ID:	PIBLK-PS028617.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-PS028617.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028617.D	1		11/25/24	PS112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS112524\
 Data File : PS028617.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Nov 2024 11:27
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

I.BLK

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/26/2024

Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 25 23:50:34 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
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System Monitoring Compounds

4) S	2,4-DCAA	7.227	7.726	1423.7E6	653.7E6	557.023	505.836m
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Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS112524\
Data File : PS028617.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:27
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

I.BLK

Manual Integrations

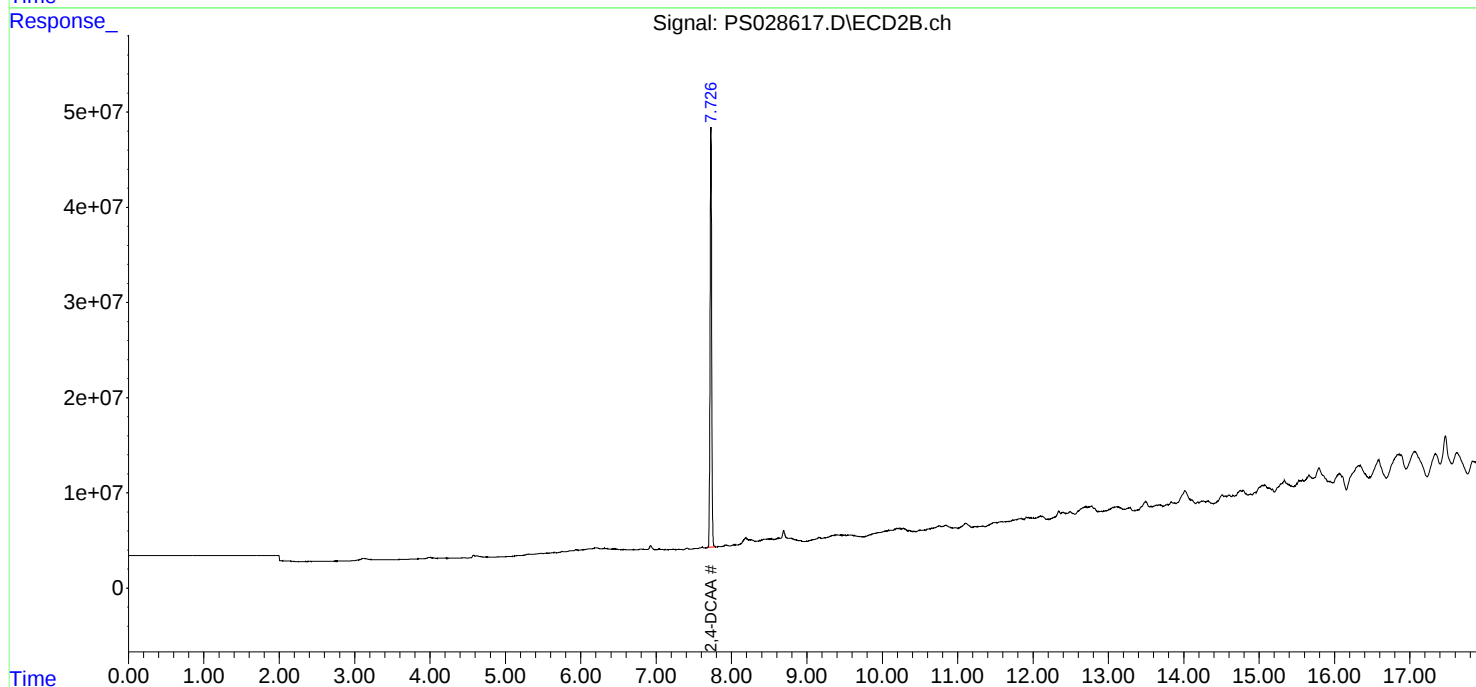
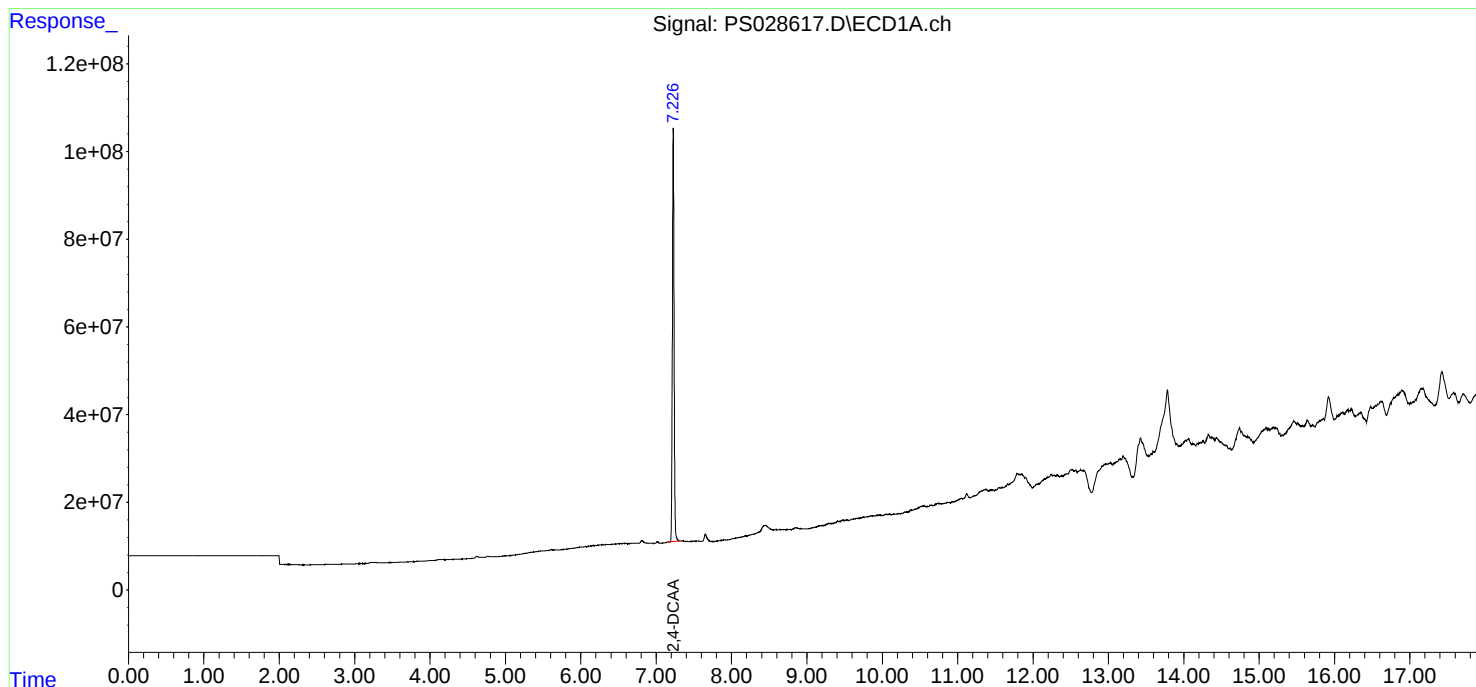
APPROVED

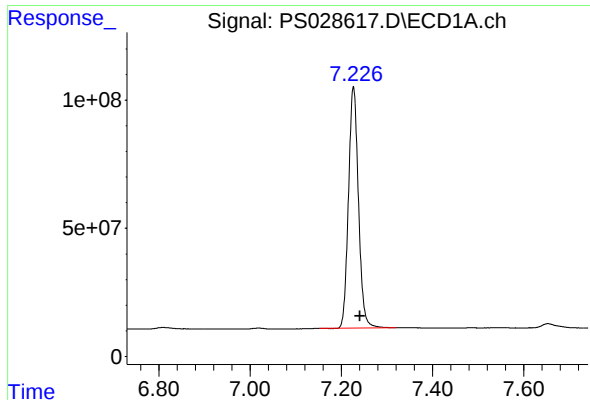
Reviewed By :Yogesh Patel 11/26/2024

Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 23:50:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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





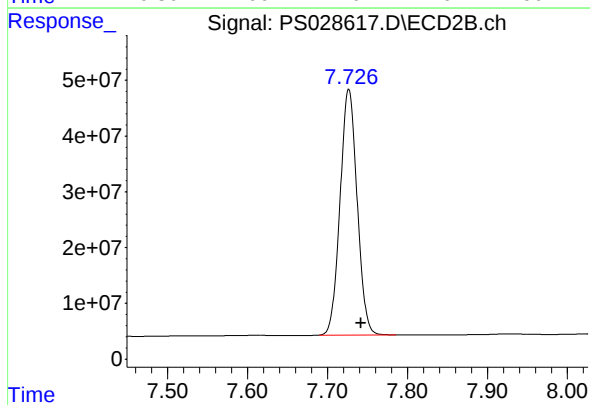
#4 2,4-DCAA

R.T.: 7.227 min
Delta R.T.: -0.014 min
Response: 1423686176
Conc: 557.02 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024



#4 2,4-DCAA

R.T.: 7.726 min
Delta R.T.: -0.016 min
Response: 653694670
Conc: 505.84 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164971BS	SDG No.:	P4495
Lab Sample ID:	PB164971BS	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028536.D	1	11/14/24 09:05	11/14/24 17:00	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
93-65-2	MCPP	16.2		1.00	6.70	ug/Kg
1918-00-9	DICAMBA	169		8.70	67.0	ug/Kg
75-99-0	DALAPON	151		24.8	67.0	ug/Kg
94-74-6	MCPA	15.9		1.70	6.70	ug/Kg
120-36-5	DICHLORPROP	170		9.50	67.0	ug/Kg
94-75-7	2,4-D	169		12.1	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	173		9.40	67.0	ug/Kg
93-76-5	2,4,5-T	172		10.1	67.0	ug/Kg
94-82-6	2,4-DB	166		18.3	67.0	ug/Kg
88-85-7	DINOSEB	163		12.4	67.0	ug/Kg
87-86-5	Pentachlorophenol	182		10.5	67.0	ug/Kg
100-02-7	4-Nitrophenol	160		17.6	67.0	ug/Kg
1918-02-1	PICLORAM	141		9.50	67.0	ug/Kg
1861-32-1	DCPA	174		11.7	67.0	ug/Kg
51-36-5	3,5-DICHLOROBENZOIC AC	169		11.1	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	542		10 - 141	108%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	PB164971BS		SDG No.:	P4495
Lab Sample ID:	PB164971BS		Matrix:	SOIL
Analytical Method:	SW8151A		% Solid:	100
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1
Extraction Type:			Injection Volume :	
GPC Factor :	1.0	PH :		
Prep Method :	8151A			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028536.D	1	11/14/24 09:05	11/14/24 17:00	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS111424\
 Data File : PS028536.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Nov 2024 17:00
 Operator : AR\AJ
 Sample : PB164971BS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB164971BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 15 00:20:58 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.239	7.739	1386.3E6	689.2E6	542.399	533.292
Target Compounds							
1) T	Dalapon	2.634	2.696	1522.6E6	1073.5E6	453.217	443.601
2) T	3,5-DICHL...	6.410	6.692	1898.1E6	960.5E6	508.695	497.075
3) T	4-Nitroph...	7.038	7.265	811.3E6	415.3E6	477.691	481.048
5) T	DICAMBA	7.427	7.939	5567.4E6	2864.0E6	508.809	502.106
6) T	MCPD	7.609	8.040	342.7E6	200.3E6	48.712	46.568
7) T	MCPA	7.759	8.285	488.5E6	289.5E6	47.868	46.737
8) T	DICHLORPROP	8.137	8.655	1504.6E6	736.2E6	509.799	504.078
9) T	2,4-D	8.368	8.986	1624.6E6	793.6E6	508.185	506.885
10) T	Pentachlo...	8.668	9.515	22824.7E6	10588.3E6	546.883	528.216
11) T	2,4,5-TP ...	9.248	9.892	9042.0E6	4336.9E6	520.531	513.958
12) T	2,4,5-T	9.541	10.313	9183.3E6	4260.4E6	516.654	508.253
13) T	2,4-DB	10.117	10.880	1356.7E6	518.4E6	497.763	494.734
14) T	DINOSEB	11.329	11.260	6996.3E6	2623.4E6	490.704	474.518
15) T	Picloram	11.136	12.356	11958.2E6	4564.9E6	424.657	403.291
16) T	DCPA	11.623	12.304	13763.2E6	4974.5E6	523.049	512.919

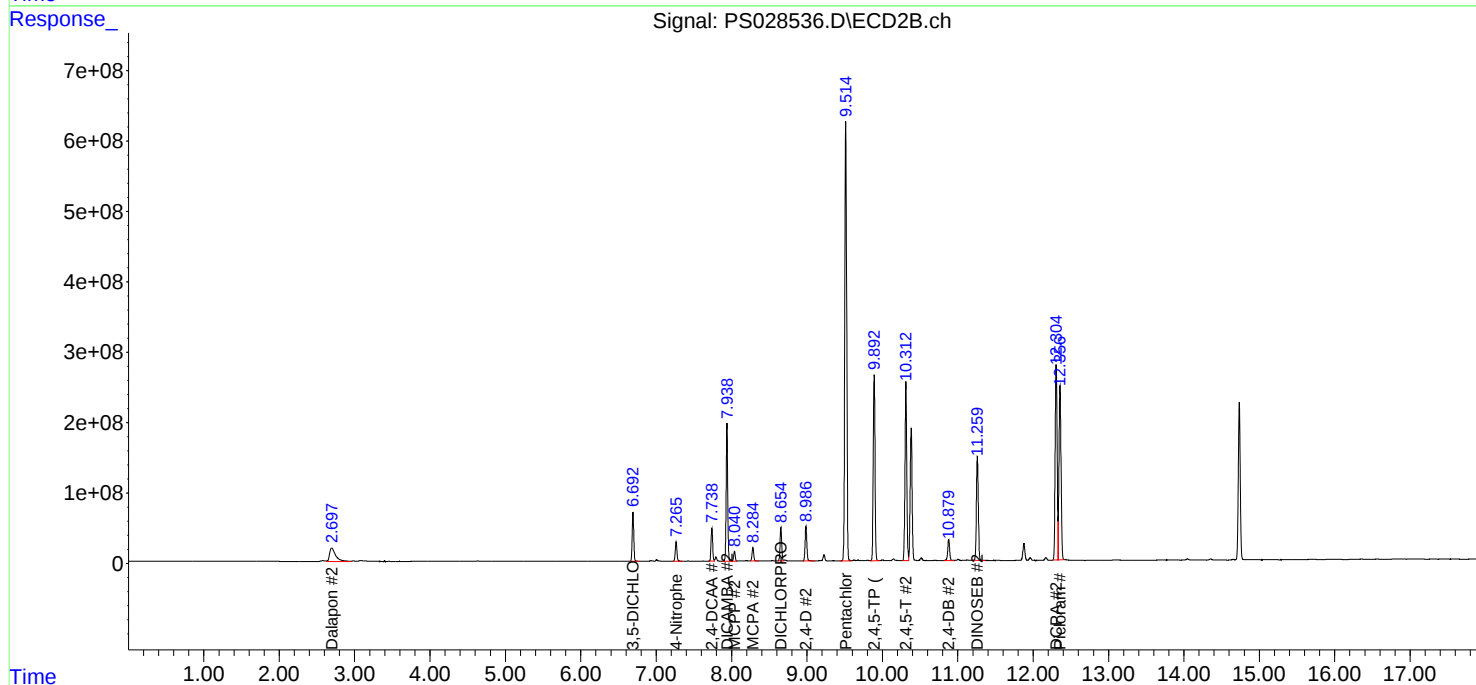
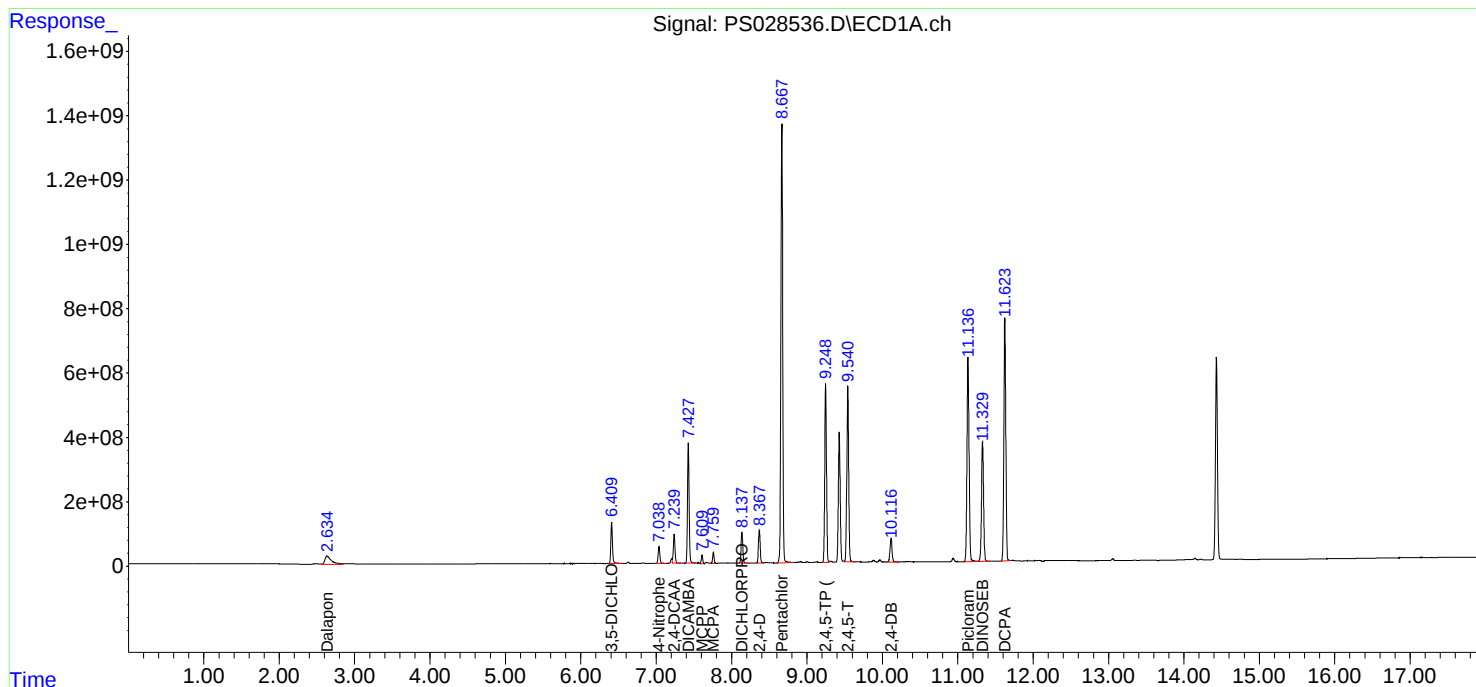
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

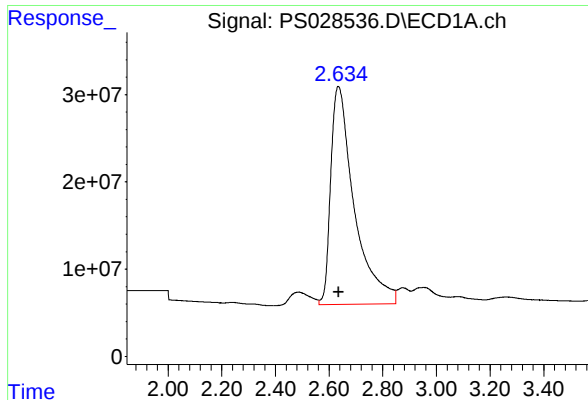
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111424\
Data File : PS028536.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Nov 2024 17:00
Operator : AR\AJ
Sample : PB164971BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164971BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 15 00:20:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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

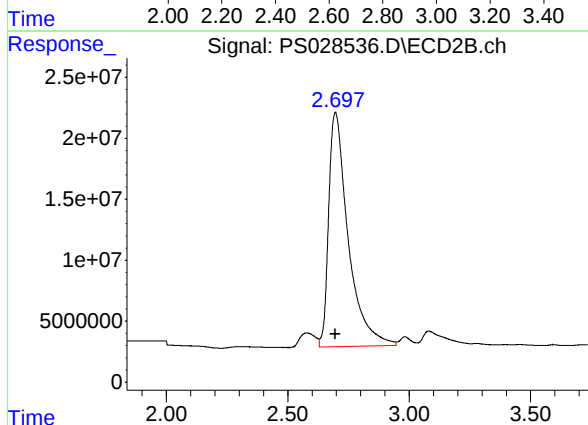




#1 Dalapon

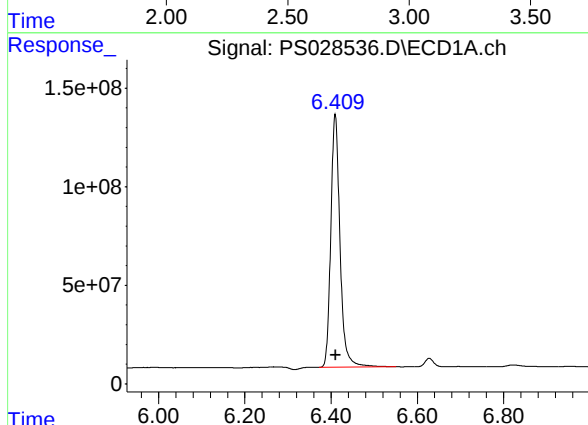
R.T.: 2.634 min
Delta R.T.: 0.000 min
Response: 1522567142
Conc: 453.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164971BS



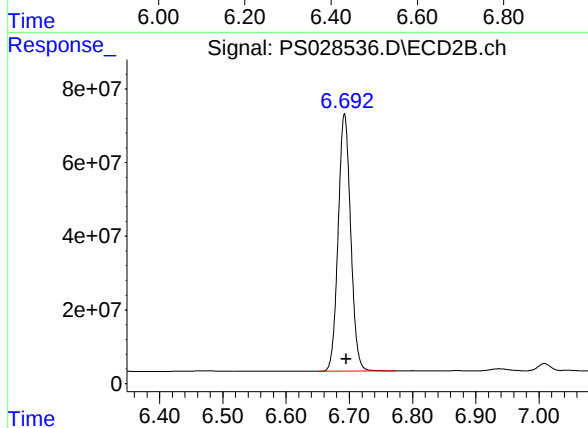
#1 Dalapon

R.T.: 2.696 min
Delta R.T.: 0.000 min
Response: 1073478483
Conc: 443.60 ng/ml



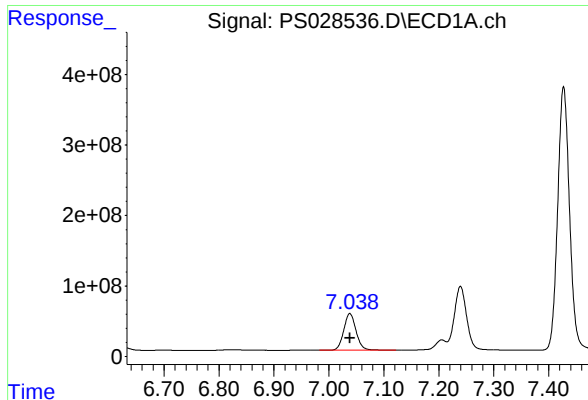
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.410 min
Delta R.T.: 0.000 min
Response: 1898092586
Conc: 508.70 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

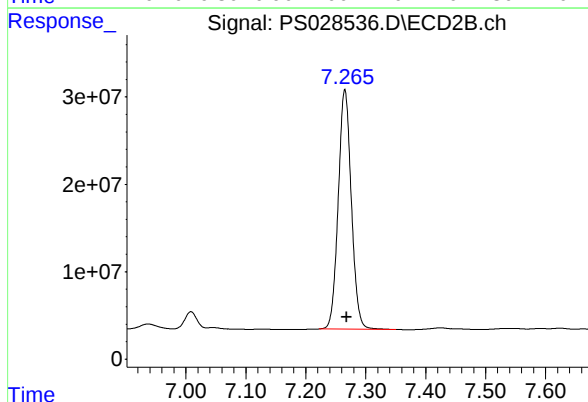
R.T.: 6.692 min
Delta R.T.: -0.003 min
Response: 960549414
Conc: 497.08 ng/ml



#3 4-Nitrophenol

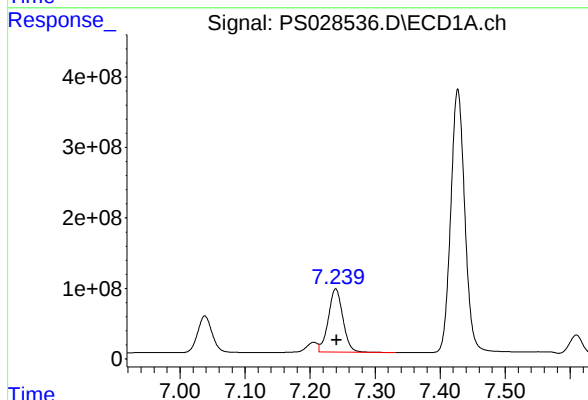
R.T.: 7.038 min
Delta R.T.: 0.000 min
Response: 811334295
Conc: 477.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164971BS



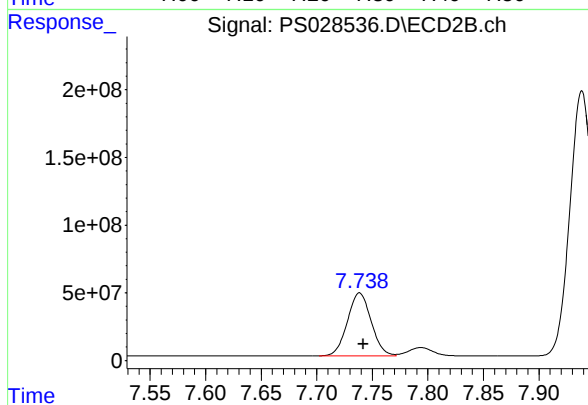
#3 4-Nitrophenol

R.T.: 7.265 min
Delta R.T.: -0.003 min
Response: 415334228
Conc: 481.05 ng/ml



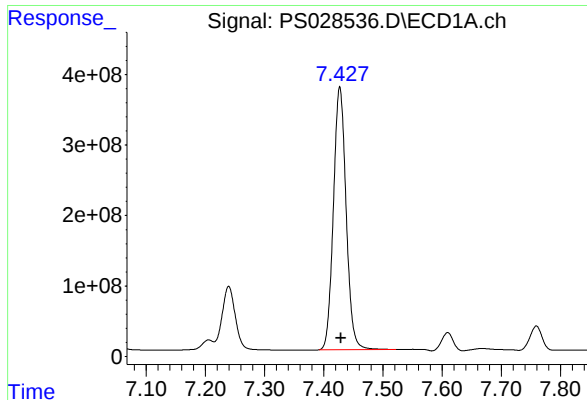
#4 2,4-DCAA

R.T.: 7.239 min
Delta R.T.: -0.001 min
Response: 1386307171
Conc: 542.40 ng/ml



#4 2,4-DCAA

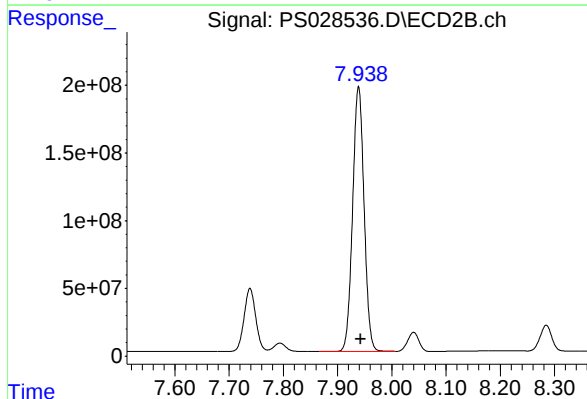
R.T.: 7.739 min
Delta R.T.: -0.003 min
Response: 689175695
Conc: 533.29 ng/ml



#5 DICAMBA

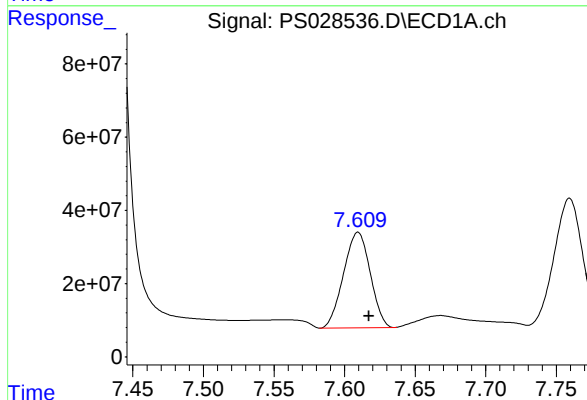
R.T.: 7.427 min
Delta R.T.: -0.002 min
Response: 5567379629
Conc: 508.81 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164971BS



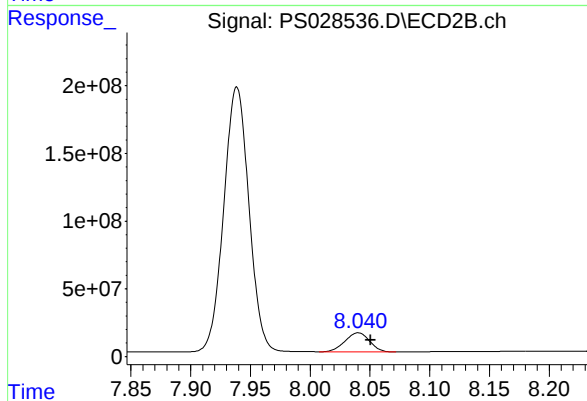
#5 DICAMBA

R.T.: 7.939 min
Delta R.T.: -0.004 min
Response: 2864049039
Conc: 502.11 ng/ml



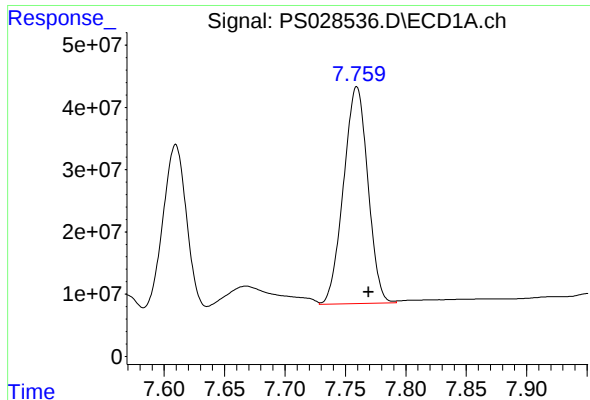
#6 MCPP

R.T.: 7.609 min
Delta R.T.: -0.008 min
Response: 342673813
Conc: 48.71 ug/ml



#6 MCPP

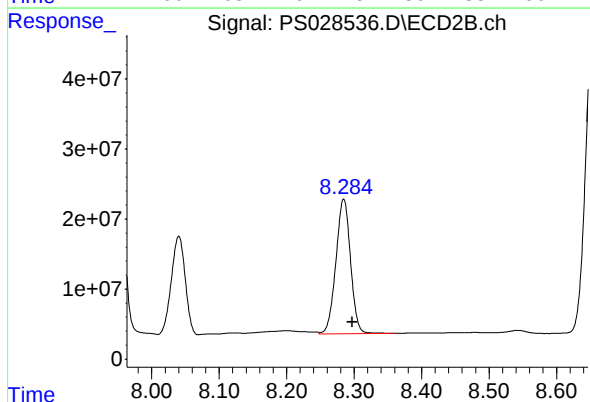
R.T.: 8.040 min
Delta R.T.: -0.010 min
Response: 200285841
Conc: 46.57 ug/ml



#7 MCPA

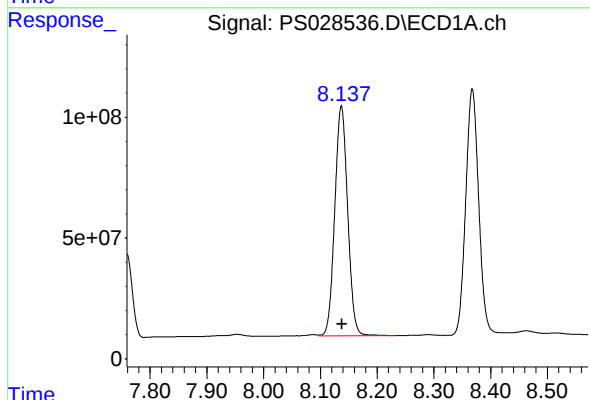
R.T.: 7.759 min
Delta R.T.: -0.010 min
Response: 488480576
Conc: 47.87 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB164971BS



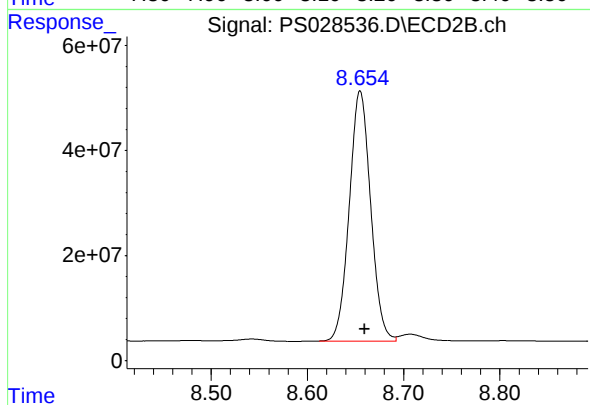
#7 MCPA

R.T.: 8.285 min
Delta R.T.: -0.013 min
Response: 289465989
Conc: 46.74 ug/ml



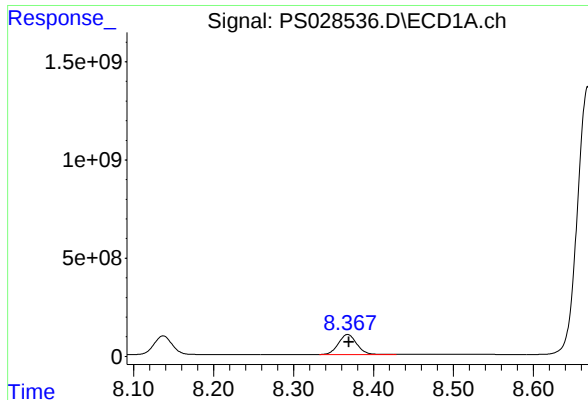
#8 DICHLORPROP

R.T.: 8.137 min
Delta R.T.: -0.002 min
Response: 1504599771
Conc: 509.80 ng/ml



#8 DICHLORPROP

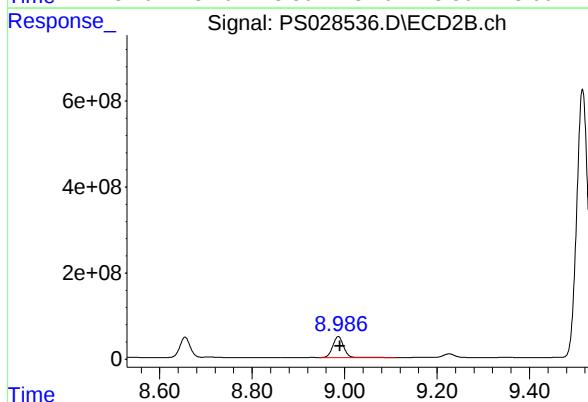
R.T.: 8.655 min
Delta R.T.: -0.005 min
Response: 736239752
Conc: 504.08 ng/ml



#9 2,4-D

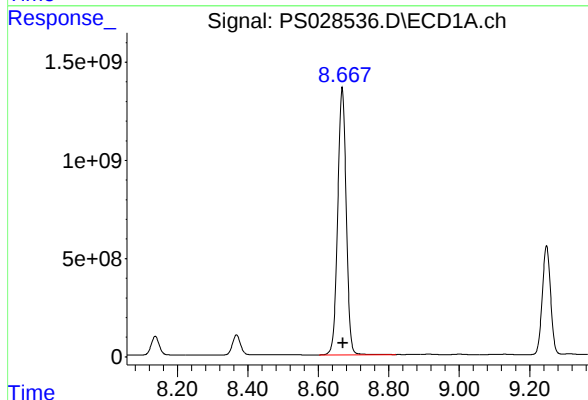
R.T.: 8.368 min
Delta R.T.: -0.002 min
Response: 1624629960
Conc: 508.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164971BS



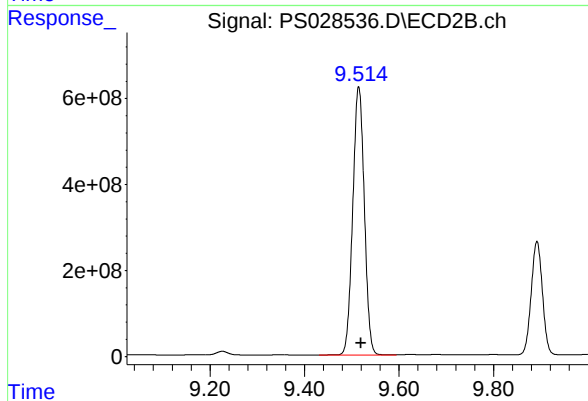
#9 2,4-D

R.T.: 8.986 min
Delta R.T.: -0.004 min
Response: 793554441
Conc: 506.88 ng/ml



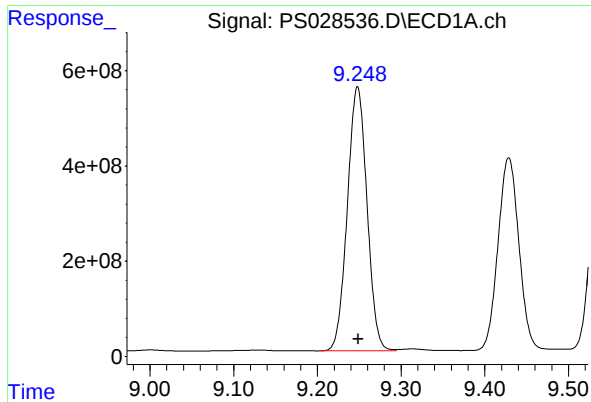
#10 Pentachlorophenol

R.T.: 8.668 min
Delta R.T.: -0.003 min
Response: 22824737373
Conc: 546.88 ng/ml



#10 Pentachlorophenol

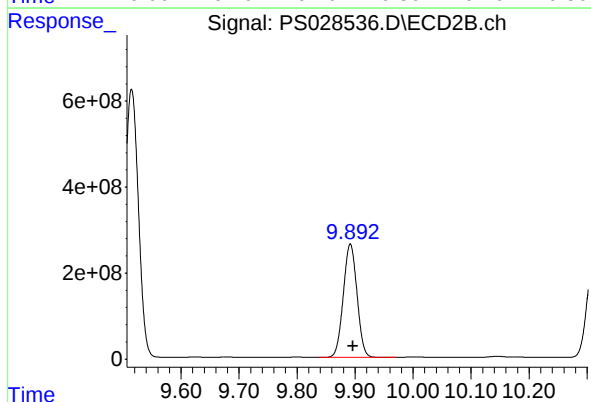
R.T.: 9.515 min
Delta R.T.: -0.005 min
Response: 10588273629
Conc: 528.22 ng/ml



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

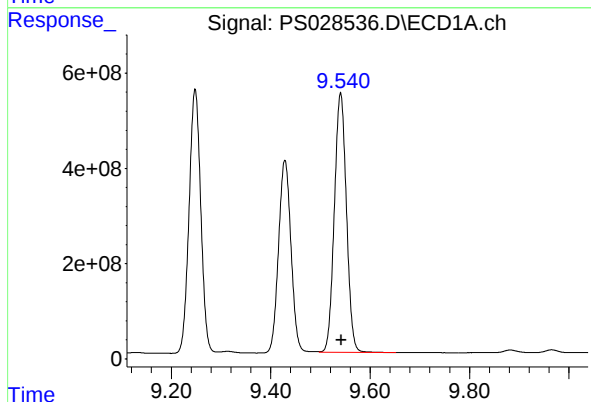
R.T.: 9.248 min
Delta R.T.: -0.001 min
Response: 9041990246
Conc: 520.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164971BS



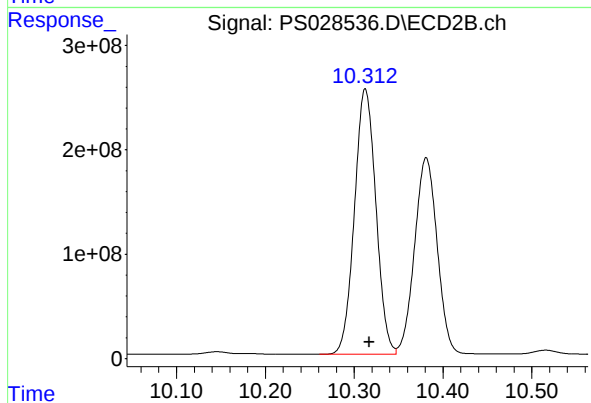
#11 2,4,5-TP (SILVEX)

R.T.: 9.892 min
Delta R.T.: -0.005 min
Response: 4336932913
Conc: 513.96 ng/ml



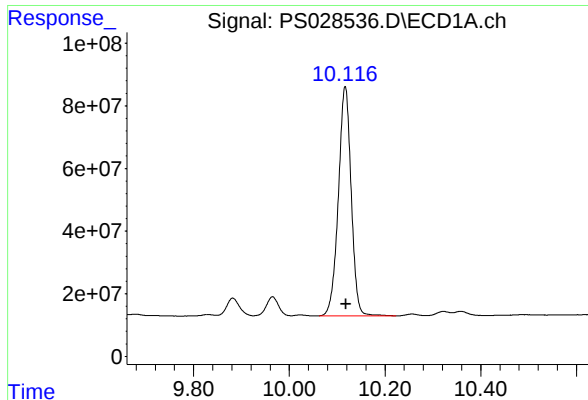
#12 2,4,5-T

R.T.: 9.541 min
Delta R.T.: -0.001 min
Response: 9183294051
Conc: 516.65 ng/ml



#12 2,4,5-T

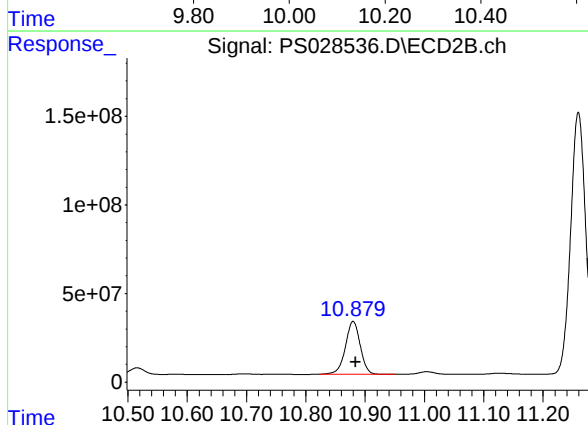
R.T.: 10.313 min
Delta R.T.: -0.004 min
Response: 4260355194
Conc: 508.25 ng/ml



#13 2,4-DB

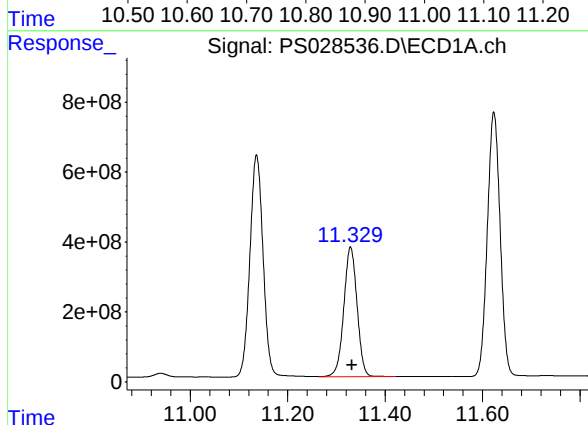
R.T.: 10.117 min
Delta R.T.: -0.002 min
Response: 1356711548
Conc: 497.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164971BS



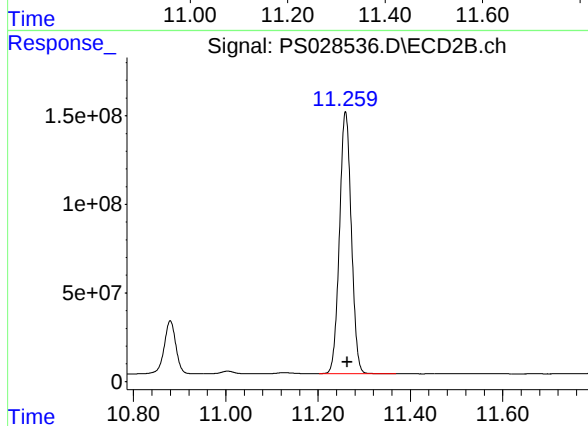
#13 2,4-DB

R.T.: 10.880 min
Delta R.T.: -0.004 min
Response: 518350784
Conc: 494.73 ng/ml



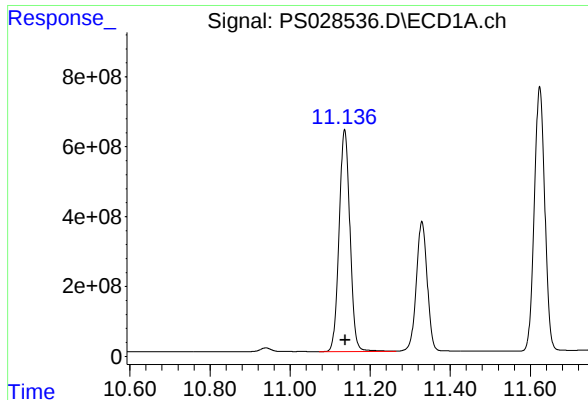
#14 DINOSEB

R.T.: 11.329 min
Delta R.T.: -0.003 min
Response: 6996344802
Conc: 490.70 ng/ml



#14 DINOSEB

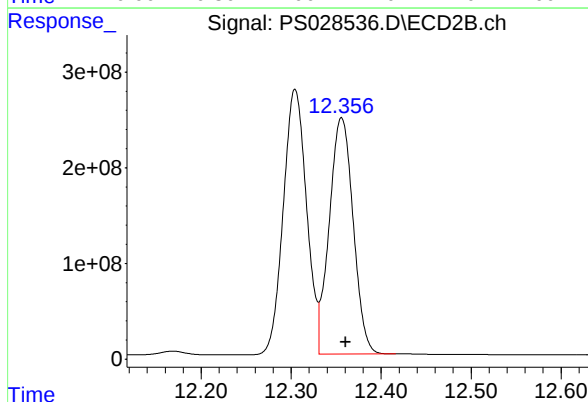
R.T.: 11.260 min
Delta R.T.: -0.004 min
Response: 2623373680
Conc: 474.52 ng/ml



#15 Picloram

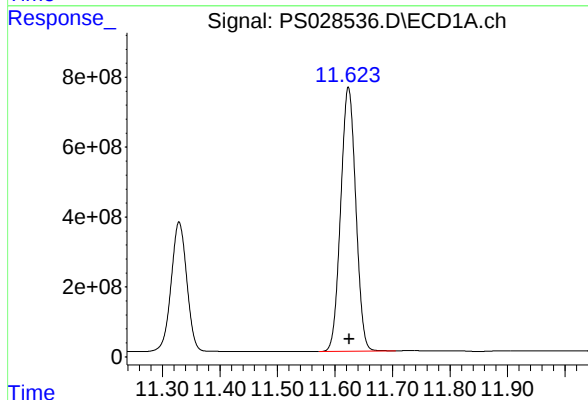
R.T.: 11.136 min
Delta R.T.: -0.002 min
Response: 11958232714
Conc: 424.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164971BS



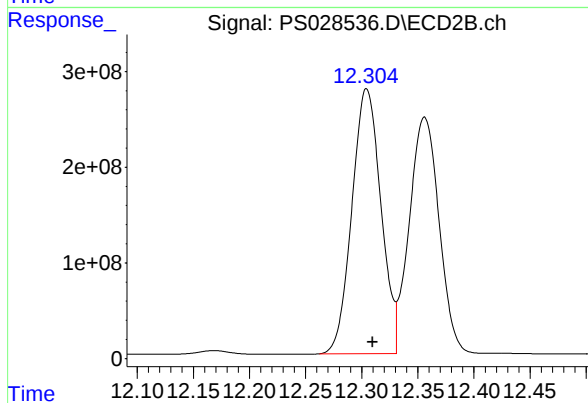
#15 Picloram

R.T.: 12.356 min
Delta R.T.: -0.005 min
Response: 4564869320
Conc: 403.29 ng/ml



#16 DCPA

R.T.: 11.623 min
Delta R.T.: -0.002 min
Response: 13763170881
Conc: 523.05 ng/ml



#16 DCPA

R.T.: 12.304 min
Delta R.T.: -0.005 min
Response: 4974502356
Conc: 512.92 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/12/24
Project:	NJ Soil PT	Date Received:	11/12/24
Client Sample ID:	BP-F-2MS	SDG No.:	P4495
Lab Sample ID:	P4821-05MS	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	88.6 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028539.D	1	11/14/24 09:05	11/14/24 18:14	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
93-65-2	MCPP	12.0		1.10	7.50	ug/Kg
1918-00-9	DICAMBA	142		9.80	75.5	ug/Kg
75-99-0	DALAPON	107	P	27.9	75.5	ug/Kg
94-74-6	MCPA	12.9		1.90	7.50	ug/Kg
120-36-5	DICHLORPROP	136		10.7	75.5	ug/Kg
94-75-7	2,4-D	157		13.6	75.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	130		10.6	75.5	ug/Kg
93-76-5	2,4,5-T	131		11.4	75.5	ug/Kg
94-82-6	2,4-DB	118		20.6	75.5	ug/Kg
88-85-7	DINOSEB	16.0	J	14.0	75.5	ug/Kg
87-86-5	Pentachlorophenol	116		11.8	75.5	ug/Kg
100-02-7	4-Nitrophenol	131		19.8	75.5	ug/Kg
1918-02-1	PICLORAM	113		10.7	75.5	ug/Kg
1861-32-1	DCPA	147		13.2	75.5	ug/Kg
51-36-5	3,5-DICHLOROBENZOIC AC	141		12.5	75.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	463		10 - 141	93%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/12/24
Project:	NJ Soil PT	Date Received:	11/12/24
Client Sample ID:	BP-F-2MS	SDG No.:	P4495
Lab Sample ID:	P4821-05MS	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	88.6 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028539.D	1	11/14/24 09:05	11/14/24 18:14	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS111424\
 Data File : PS028539.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Nov 2024 18:14
 Operator : AR\AJ
 Sample : P4821-05MS
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

BP-F-2MS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/15/2024

Supervised By :Ankita Jodhani 11/15/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 15 00:23:50 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.240	7.739	1183.0E6	539.3E6	462.872	417.282
Target Compounds							
1) T	Dalapon	2.630	2.697	671.5E6	687.9E6	199.871	284.262m#
2) T	3,5-DICHL...	6.410	6.693	1400.8E6	671.3E6	375.414	347.376
3) T	4-Nitroph...	7.038	7.266	570.3E6	301.8E6	335.802m	349.542
5) T	DICAMBA	7.428	7.940	4124.3E6	2111.7E6	376.929	370.203
6) T	MCPD	7.608	8.040	222.3E6	137.9E6	31.601	32.055
7) T	MCPA	7.758	8.284	345.7E6	213.1E6	33.875	34.404
8) T	DICHLORPROP	8.138	8.656	1066.5E6	503.1E6	361.358	344.475
9) T	2,4-D	8.369	8.987	1336.9E6	641.7E6	418.170	409.857
10) T	Pentachlo...	8.668	9.516	12907.9E6	5850.7E6	309.275	291.874
11) T	2,4,5-TP ...	9.248	9.893	5987.5E6	2917.3E6	344.689	345.723
12) T	2,4,5-T	9.541	10.314	6192.8E6	2891.6E6	348.410	344.962
13) T	2,4-DB	10.118	10.880	835.6E6	330.7E6	306.582	315.597
14) T	DINOSEB	11.330	11.260	607.6E6	196.9E6	42.613	35.609
15) T	Picloram	11.137	12.356	8478.5E6	3167.7E6	301.084	279.858
16) T	DCPA	11.623	12.305	8265.6E6	3793.4E6	314.121	391.134

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111424\
Data File : PS028539.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Nov 2024 18:14
Operator : AR\AJ
Sample : P4821-05MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

BP-F-2MS

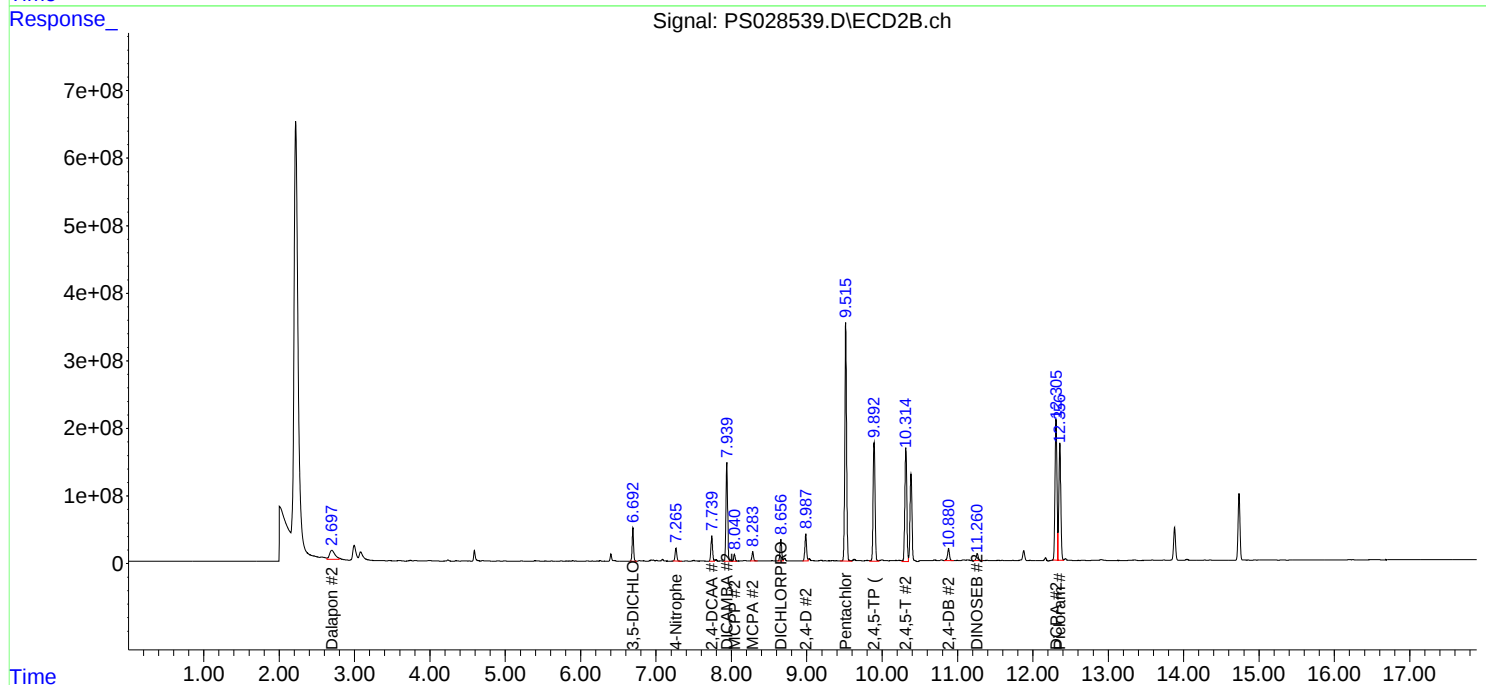
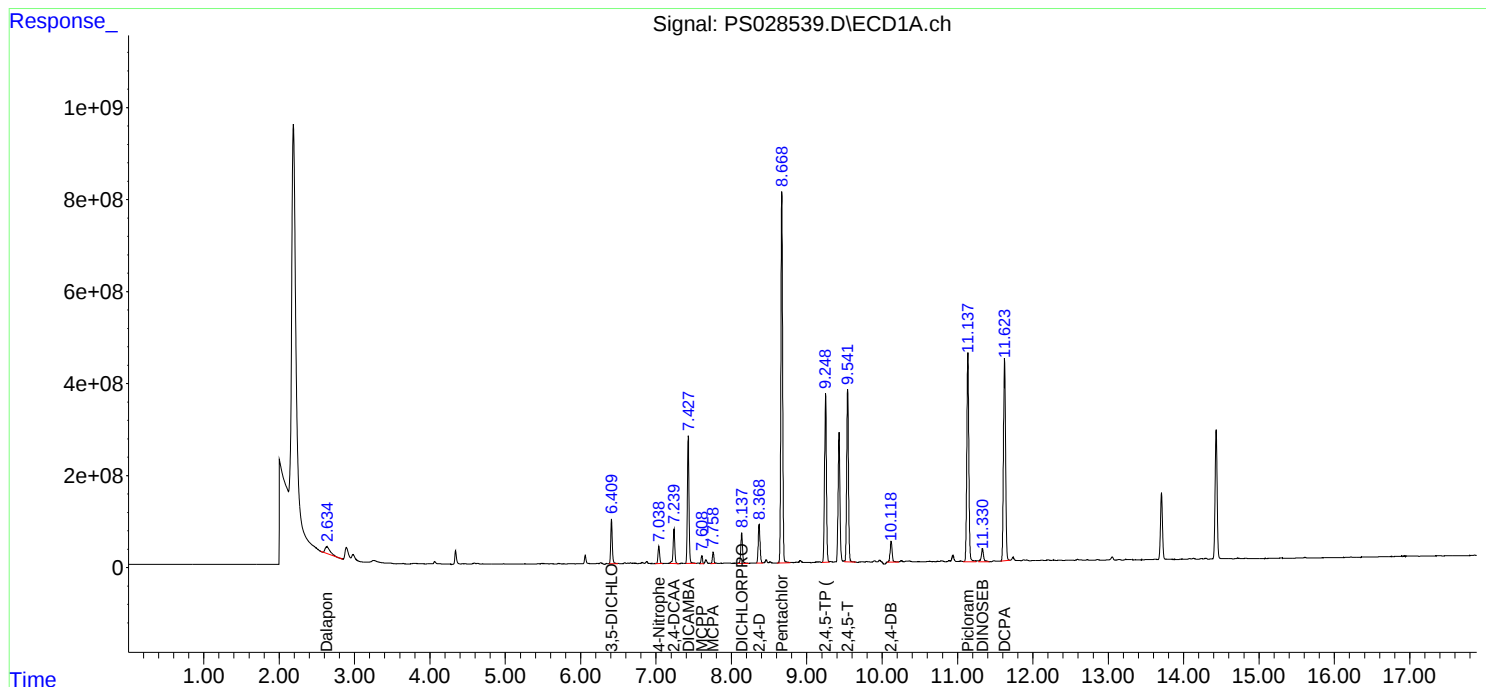
Manual Integrations

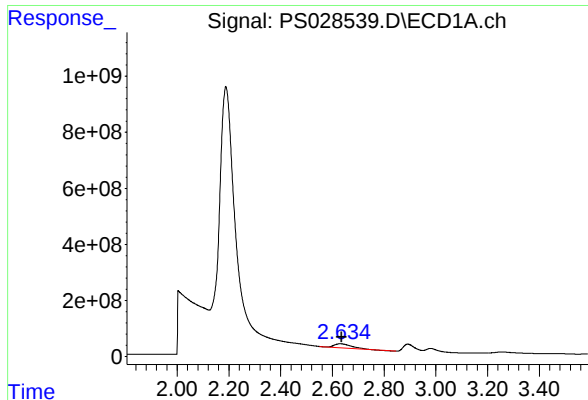
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 15 00:23:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#1 Dalapon

R.T.: 2.630 min
Delta R.T.: -0.005 min
Response: 671460808
Conc: 199.87 ng/ml

Instrument :

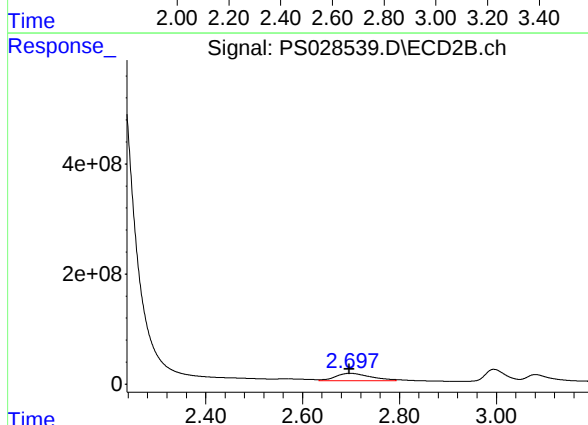
ECD_S

ClientSampleId :

BP-F-2MS

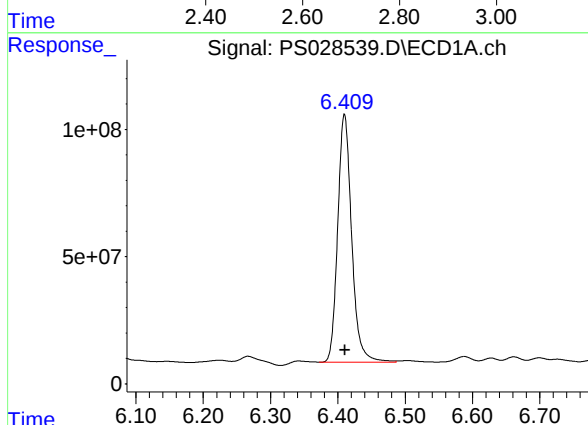
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



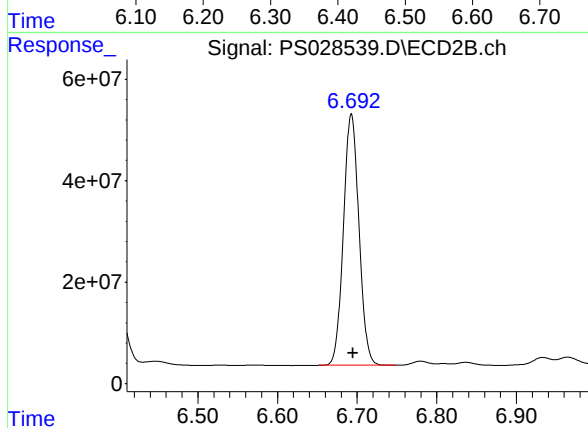
#1 Dalapon

R.T.: 2.697 min
Delta R.T.: 0.000 min
Response: 687892496
Conc: 284.26 ng/ml



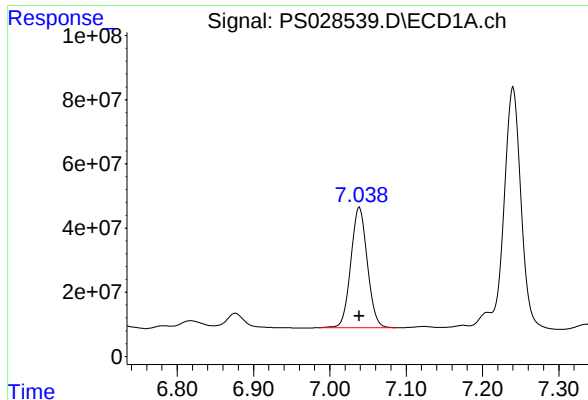
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.410 min
Delta R.T.: 0.000 min
Response: 1400782605
Conc: 375.41 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.693 min
Delta R.T.: -0.002 min
Response: 671269916
Conc: 347.38 ng/ml



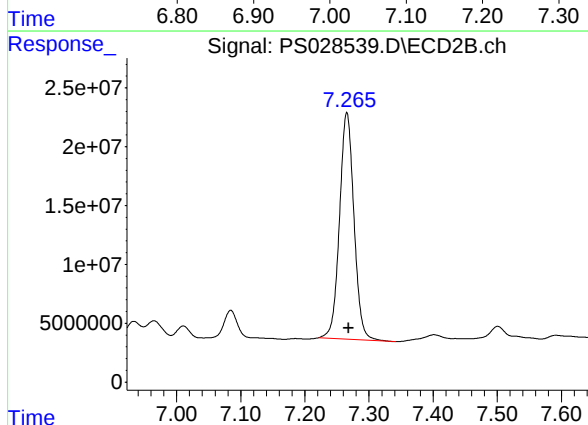
#3 4-Nitrophenol

R.T.: 7.038 min
Delta R.T.: 0.000 min
Response: 570343270
Conc: 335.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MS

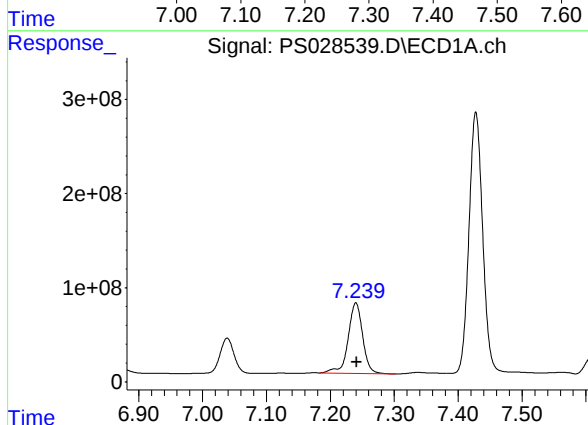
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



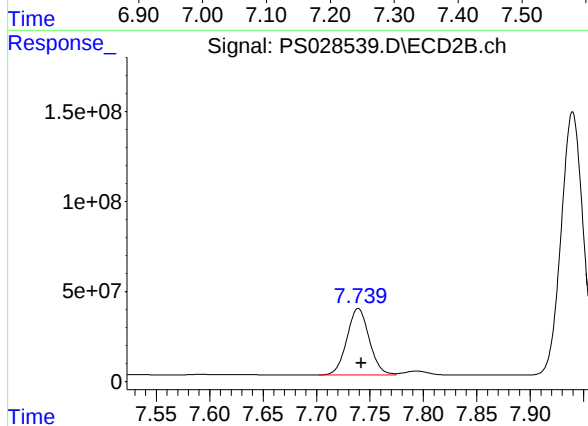
#3 4-Nitrophenol

R.T.: 7.266 min
Delta R.T.: -0.003 min
Response: 301792484
Conc: 349.54 ng/ml



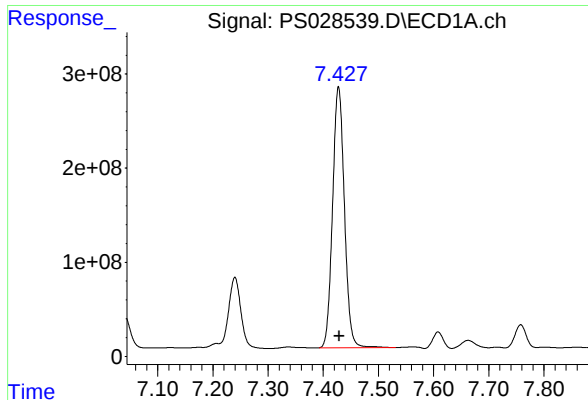
#4 2,4-DCAA

R.T.: 7.240 min
Delta R.T.: -0.001 min
Response: 1183045027
Conc: 462.87 ng/ml



#4 2,4-DCAA

R.T.: 7.739 min
Delta R.T.: -0.003 min
Response: 539255427
Conc: 417.28 ng/ml



#5 DICAMBA

R.T.: 7.428 min
Delta R.T.: -0.001 min
Response: 4124343375
Conc: 376.93 ng/ml

Instrument :

ECD_S

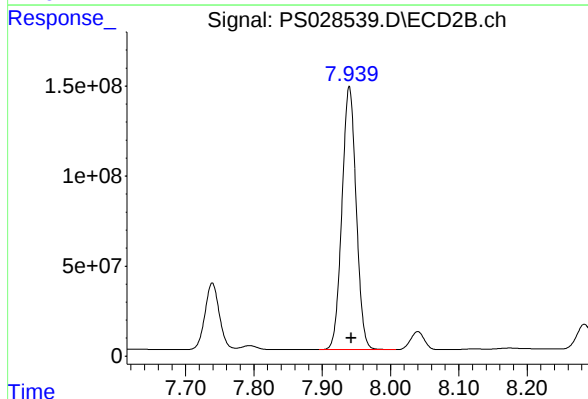
ClientSampleId :

BP-F-2MS

Manual Integrations

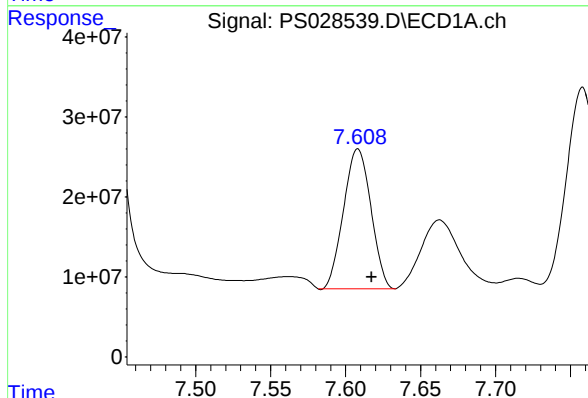
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



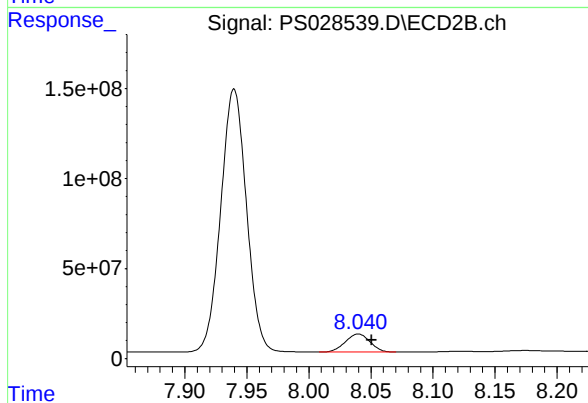
#5 DICAMBA

R.T.: 7.940 min
Delta R.T.: -0.003 min
Response: 2111664643
Conc: 370.20 ng/ml



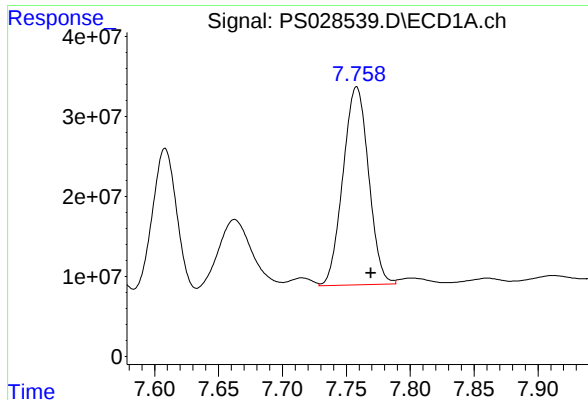
#6 MCPP

R.T.: 7.608 min
Delta R.T.: -0.009 min
Response: 222301691
Conc: 31.60 ug/ml



#6 MCPP

R.T.: 8.040 min
Delta R.T.: -0.011 min
Response: 137866469
Conc: 32.05 ug/ml



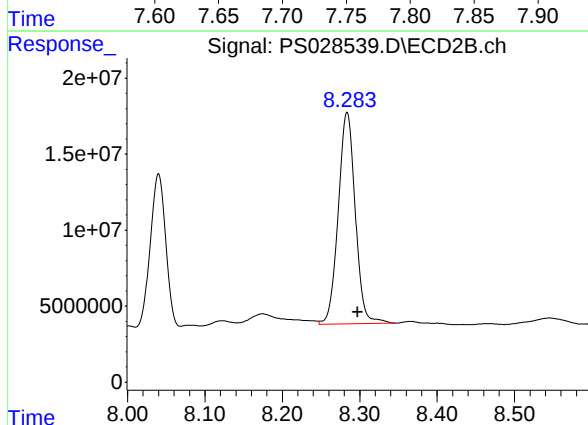
#7 MCPA

R.T.: 7.758 min
Delta R.T.: -0.011 min
Response: 345681349
Conc: 33.87 ug/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MS

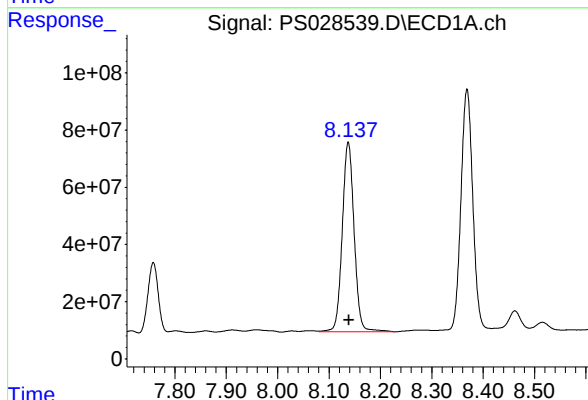
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



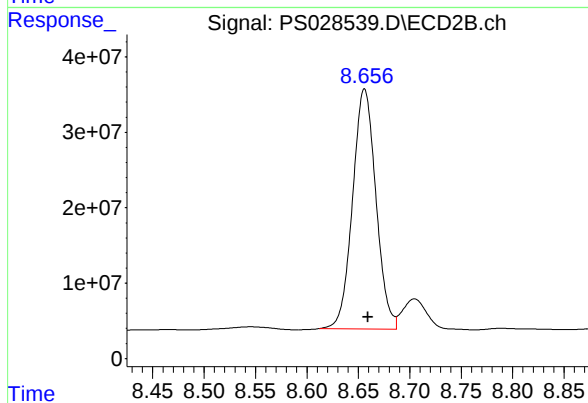
#7 MCPA

R.T.: 8.284 min
Delta R.T.: -0.014 min
Response: 213076299
Conc: 34.40 ug/ml



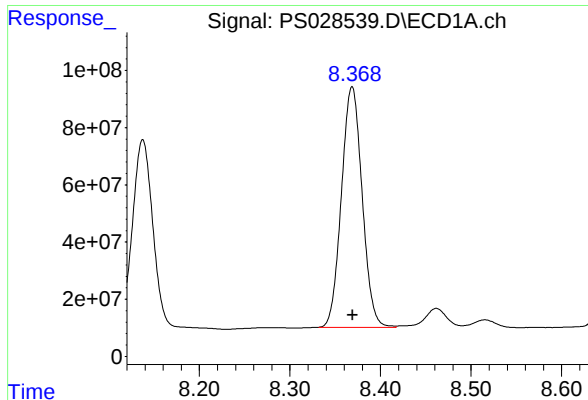
#8 DICHLORPROP

R.T.: 8.138 min
Delta R.T.: 0.000 min
Response: 1066496372
Conc: 361.36 ng/ml



#8 DICHLORPROP

R.T.: 8.656 min
Delta R.T.: -0.004 min
Response: 503129143
Conc: 344.47 ng/ml



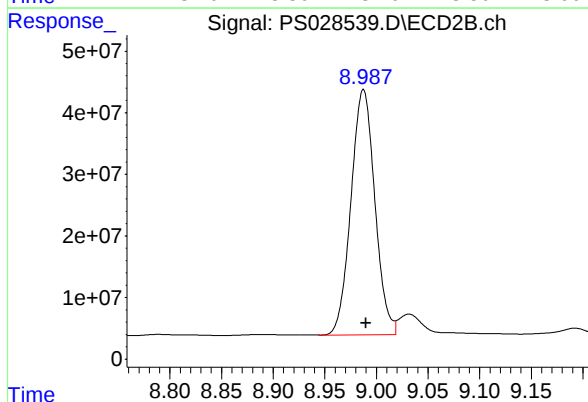
#9 2,4-D

R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 1336860593
Conc: 418.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MS

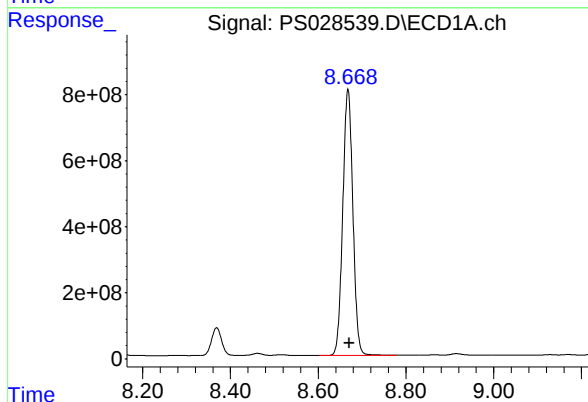
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



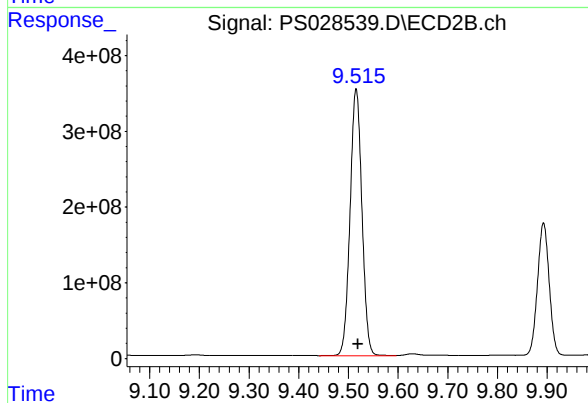
#9 2,4-D

R.T.: 8.987 min
Delta R.T.: -0.003 min
Response: 641652556
Conc: 409.86 ng/ml



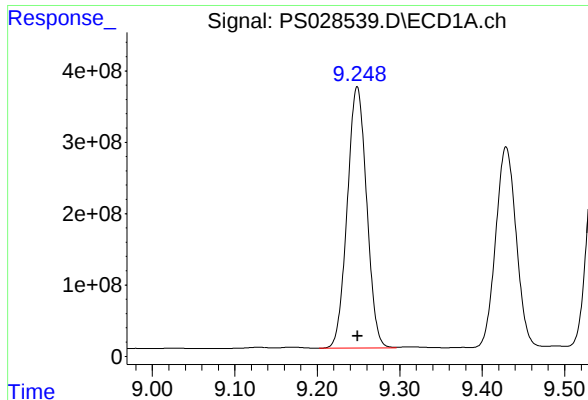
#10 Pentachlorophenol

R.T.: 8.668 min
Delta R.T.: -0.003 min
Response: 12907913223
Conc: 309.28 ng/ml



#10 Pentachlorophenol

R.T.: 9.516 min
Delta R.T.: -0.004 min
Response: 5850717737
Conc: 291.87 ng/ml



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

R.T.: 9.248 min
Delta R.T.: 0.000 min
Response: 5987500427
Conc: 344.69 ng/ml

Instrument :

ECD_S

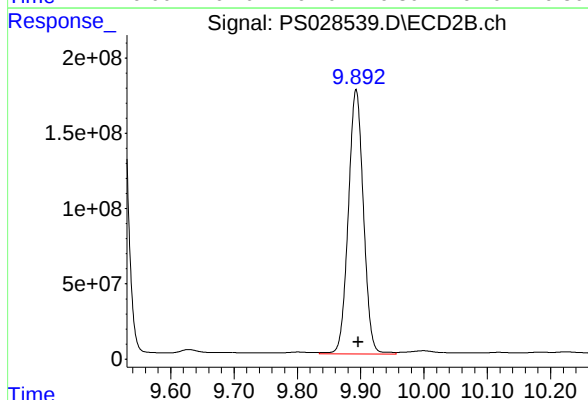
ClientSampleId :

BP-F-2MS

Manual Integrations

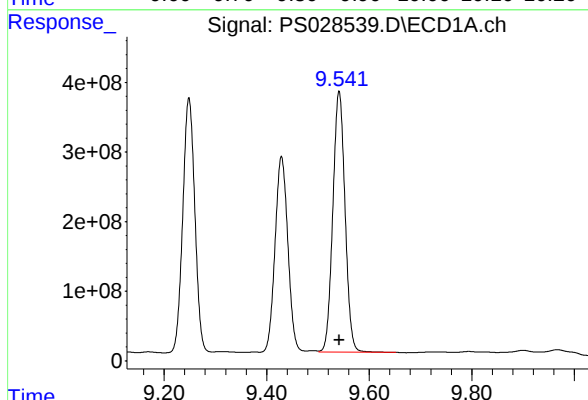
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



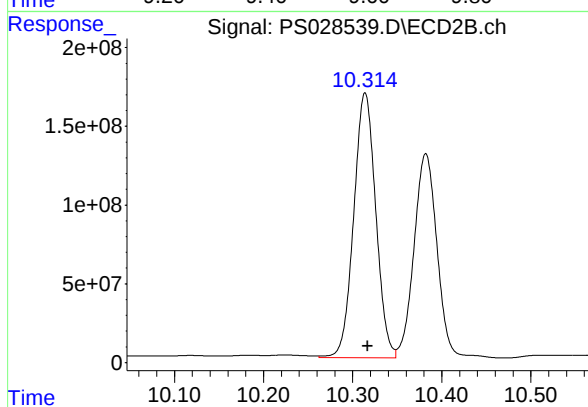
#11 2,4,5-TP (SILVEX)

R.T.: 9.893 min
Delta R.T.: -0.004 min
Response: 2917314388
Conc: 345.72 ng/ml



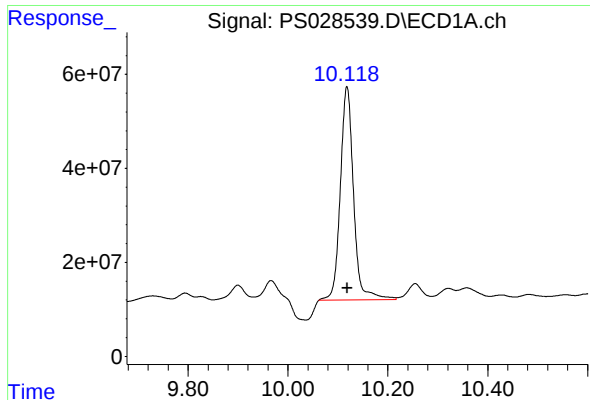
#12 2,4,5-T

R.T.: 9.541 min
Delta R.T.: 0.000 min
Response: 6192827883
Conc: 348.41 ng/ml



#12 2,4,5-T

R.T.: 10.314 min
Delta R.T.: -0.003 min
Response: 2891594530
Conc: 344.96 ng/ml



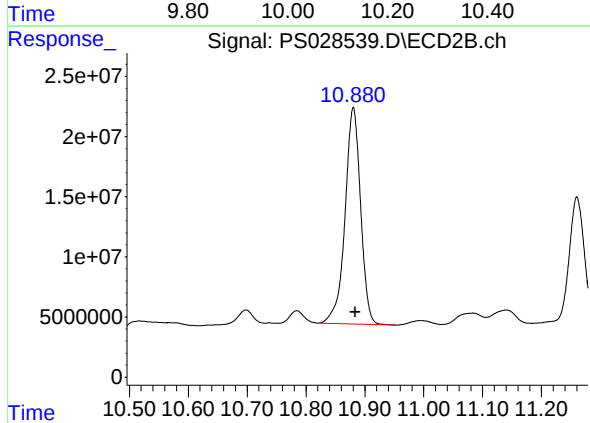
#13 2,4-DB

R.T.: 10.118 min
Delta R.T.: 0.000 min
Response: 835625943
Conc: 306.58 ng/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MS

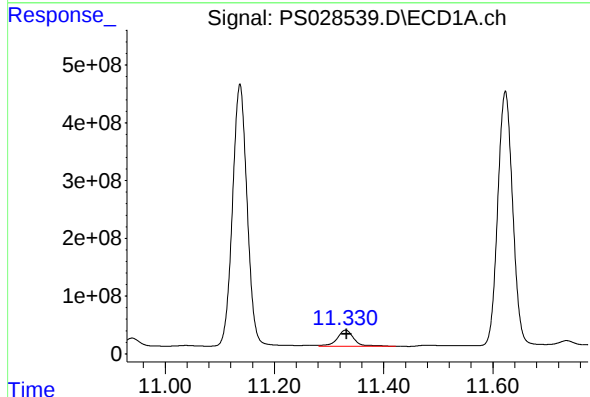
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



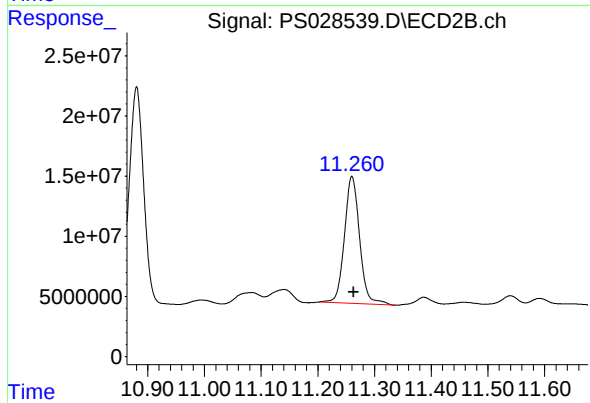
#13 2,4-DB

R.T.: 10.880 min
Delta R.T.: -0.003 min
Response: 330662187
Conc: 315.60 ng/ml



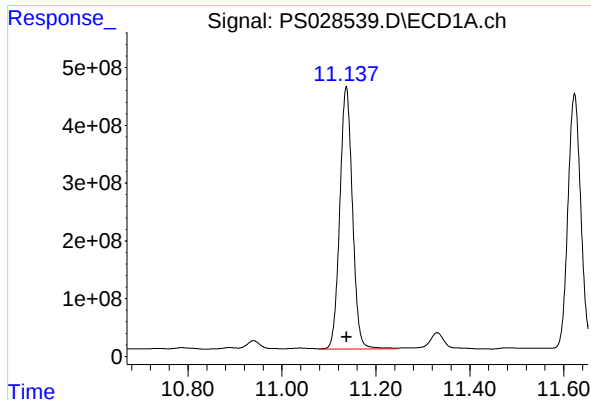
#14 DINOSEB

R.T.: 11.330 min
Delta R.T.: -0.002 min
Response: 607570857
Conc: 42.61 ng/ml



#14 DINOSEB

R.T.: 11.260 min
Delta R.T.: -0.003 min
Response: 196864097
Conc: 35.61 ng/ml



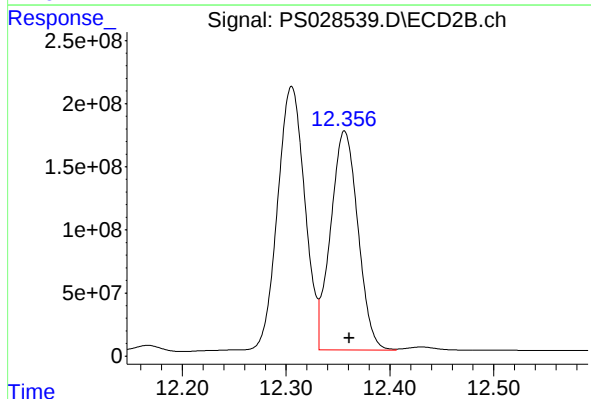
#15 Picloram

R.T.: 11.137 min
Delta R.T.: 0.000 min
Response: 8478451043
Conc: 301.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MS

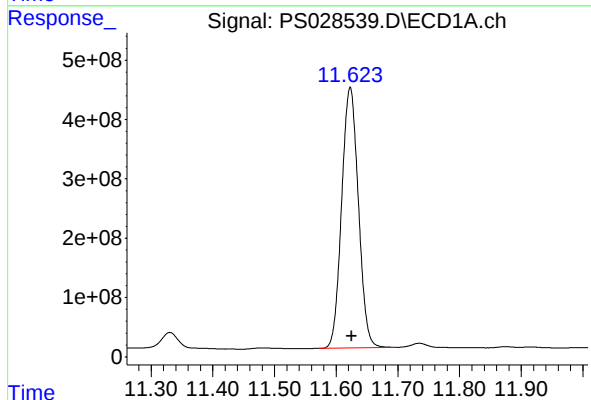
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



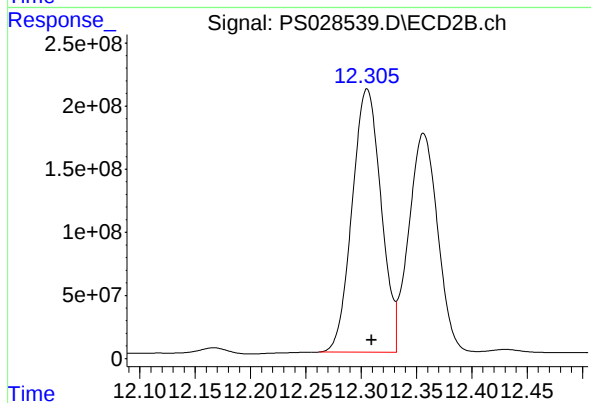
#15 Picloram

R.T.: 12.356 min
Delta R.T.: -0.004 min
Response: 3167727563
Conc: 279.86 ng/ml



#16 DCPA

R.T.: 11.623 min
Delta R.T.: -0.003 min
Response: 8265594890
Conc: 314.12 ng/ml



#16 DCPA

R.T.: 12.305 min
Delta R.T.: -0.004 min
Response: 3793384563
Conc: 391.13 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/12/24
Project:	NJ Soil PT	Date Received:	11/12/24
Client Sample ID:	BP-F-2MSD	SDG No.:	P4495
Lab Sample ID:	P4821-05MSD	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	88.6 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028540.D	1	11/14/24 09:05	11/14/24 18:38	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
93-65-2	MCPP	12.2		1.10	7.50	ug/Kg
1918-00-9	DICAMBA	143		9.80	75.4	ug/Kg
75-99-0	DALAPON	101	P	27.9	75.4	ug/Kg
94-74-6	MCPA	13.1		1.90	7.50	ug/Kg
120-36-5	DICHLORPROP	137		10.7	75.4	ug/Kg
94-75-7	2,4-D	159		13.6	75.4	ug/Kg
93-72-1	2,4,5-TP (Silvex)	131		10.6	75.4	ug/Kg
93-76-5	2,4,5-T	134		11.4	75.4	ug/Kg
94-82-6	2,4-DB	120		20.6	75.4	ug/Kg
88-85-7	DINOSEB	17.5	J	14.0	75.4	ug/Kg
87-86-5	Pentachlorophenol	118		11.8	75.4	ug/Kg
100-02-7	4-Nitrophenol	133		19.8	75.4	ug/Kg
1918-02-1	PICLORAM	116		10.7	75.4	ug/Kg
1861-32-1	DCPA	148		13.2	75.4	ug/Kg
51-36-5	3,5-DICHLOROBENZOIC AC	143		12.5	75.4	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	468		10 - 141	94%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/12/24
Project:	NJ Soil PT	Date Received:	11/12/24
Client Sample ID:	BP-F-2MSD	SDG No.:	P4495
Lab Sample ID:	P4821-05MSD	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	88.6 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028540.D	1	11/14/24 09:05	11/14/24 18:38	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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\PS111424\
 Data File : PS028540.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Nov 2024 18:38
 Operator : AR\AJ
 Sample : P4821-05MSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

BP-F-2MSD

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/15/2024

Supervised By :Ankita Jodhani 11/15/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 15 00:24:46 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 13 13:41:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.240	7.739	1195.6E6	543.8E6	467.799	420.794
Target Compounds							
1) T	Dalapon	2.631	2.698	687.2E6	651.7E6	204.571	269.307m#
2) T	3,5-DICHL...	6.410	6.693	1417.8E6	677.2E6	379.963	350.442
3) T	4-Nitroph...	7.038	7.265	578.7E6	306.7E6	340.747m	355.249
5) T	DICAMBA	7.428	7.940	4169.6E6	2132.4E6	381.062	373.842
6) T	MCP	7.609	8.040	223.5E6	139.9E6	31.774	32.523
7) T	MCPA	7.759	8.284	349.8E6	216.6E6	34.275	34.971
8) T	DICHLORPROP	8.138	8.656	1078.4E6	508.5E6	365.400	348.137
9) T	2,4-D	8.368	8.987	1357.8E6	650.0E6	424.735	415.162
10) T	Pentachlo...	8.668	9.516	13093.1E6	5922.6E6	313.711	295.461
11) T	2,4,5-TP ...	9.249	9.893	6072.4E6	2948.2E6	349.578	349.388
12) T	2,4,5-T	9.542	10.314	6333.8E6	2929.2E6	356.339	349.454
13) T	2,4-DB	10.118	10.881	856.0E6	334.0E6	314.047	318.764
14) T	DINOSEB	11.331	11.261	666.4E6	201.6E6	46.741	36.460
15) T	Picloram	11.138	12.357	8670.4E6	3226.5E6	307.899	285.048
16) T	DCPA	11.623	12.305	8419.8E6	3838.0E6	319.983	395.737

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111424\
Data File : PS028540.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Nov 2024 18:38
Operator : AR\AJ
Sample : P4821-05MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

BP-F-2MSD

Manual Integrations

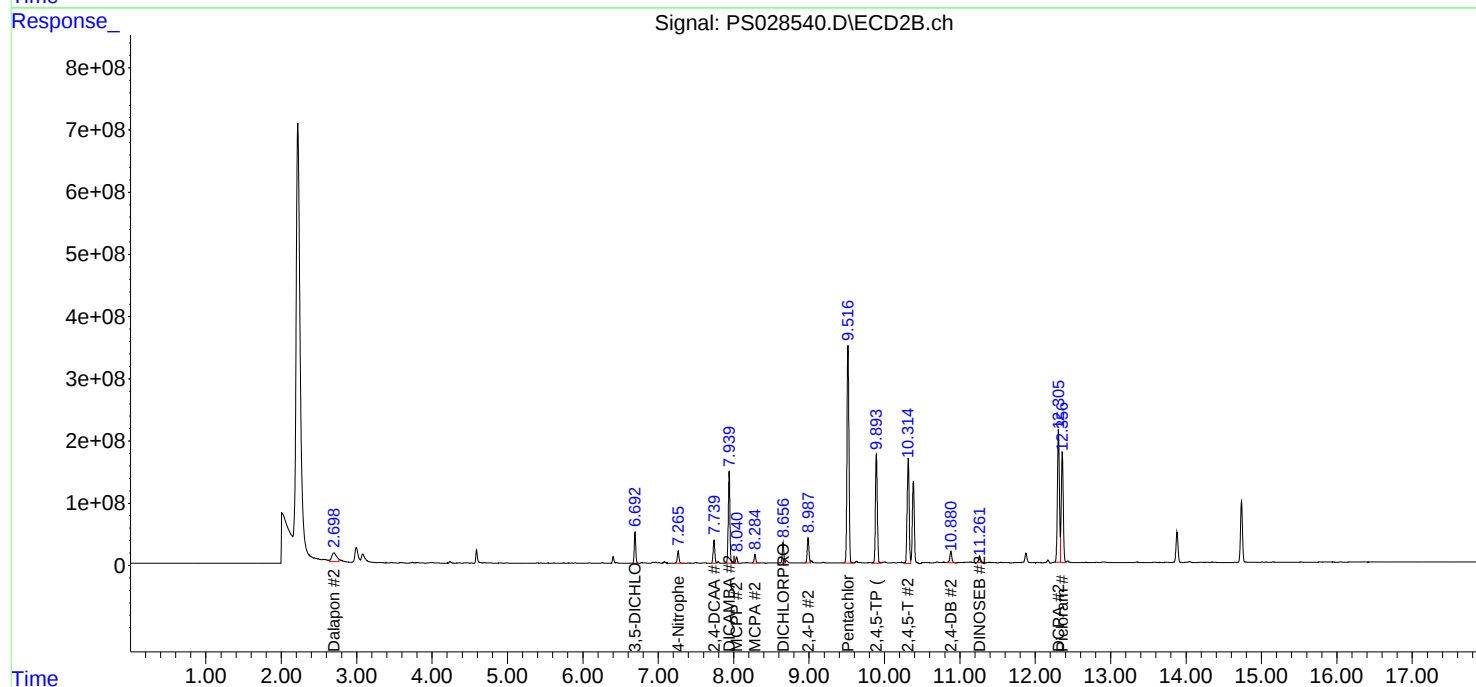
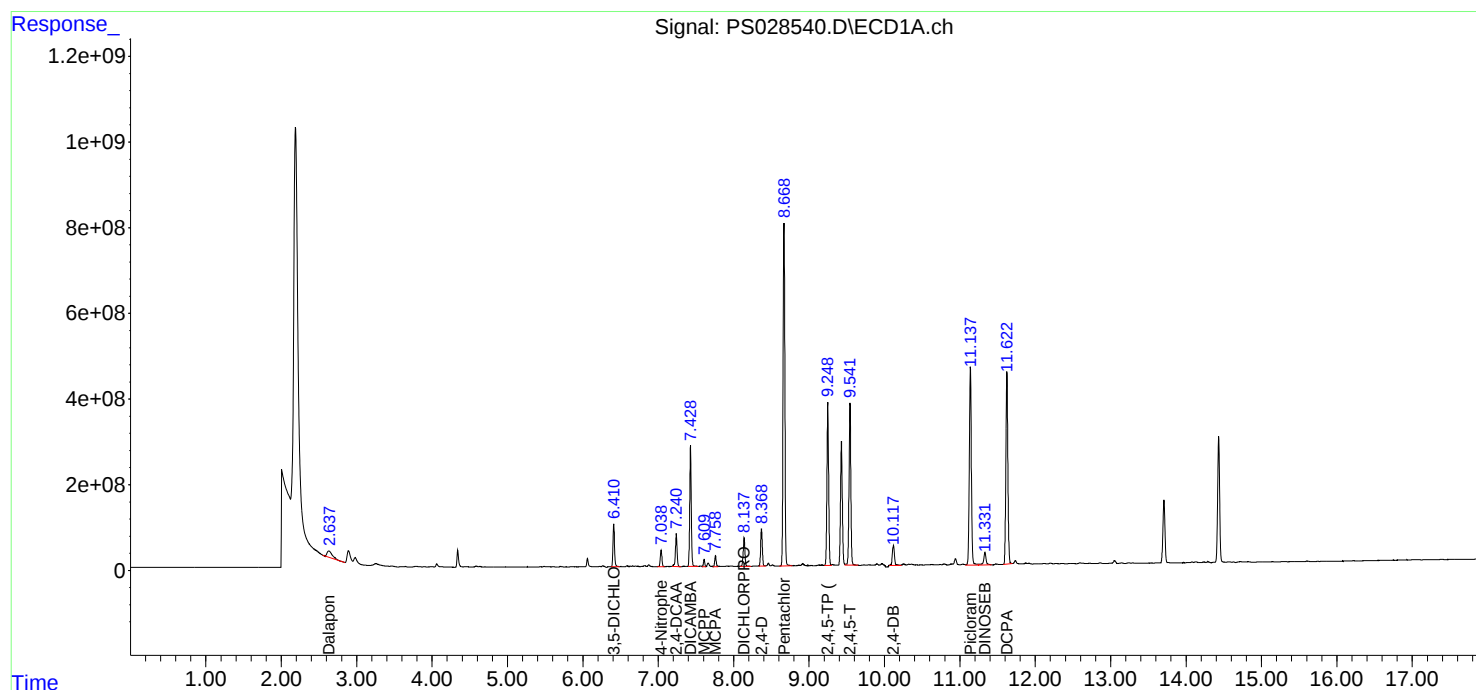
APPROVED

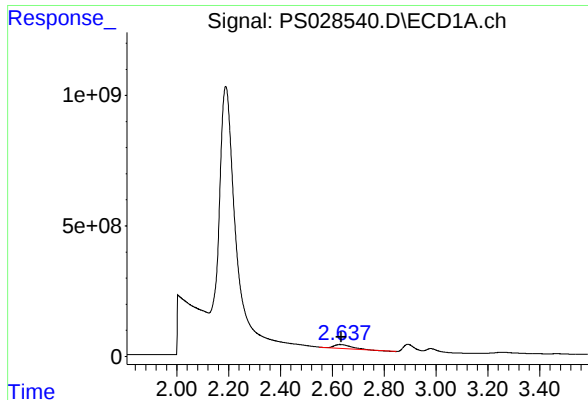
Reviewed By :Yogesh Patel 11/15/2024

Supervised By :Ankita Jodhani 11/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 15 00:24:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS111324.M
Quant Title : 8080.M
QLast Update : Wed Nov 13 13:41:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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





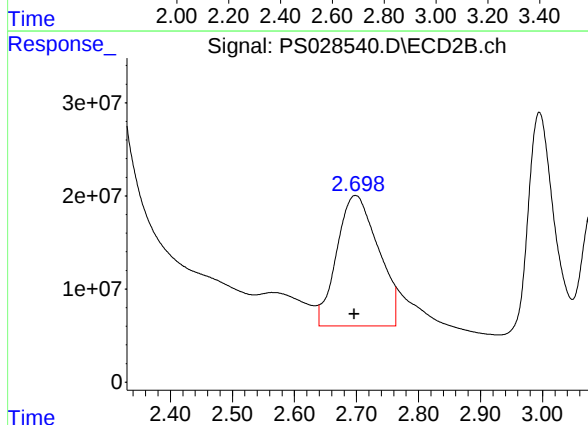
#1 Dalapon

R.T.: 2.631 min
Delta R.T.: -0.004 min
Response: 687248962
Conc: 204.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MSD

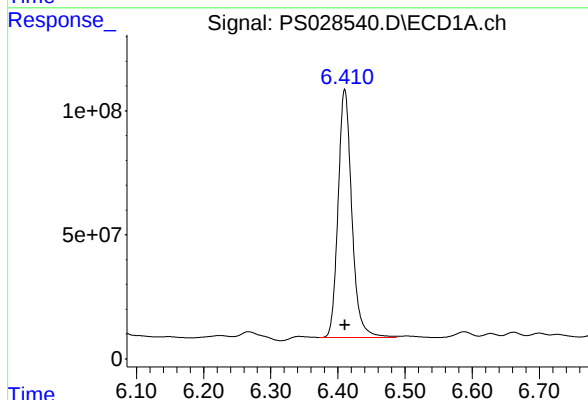
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



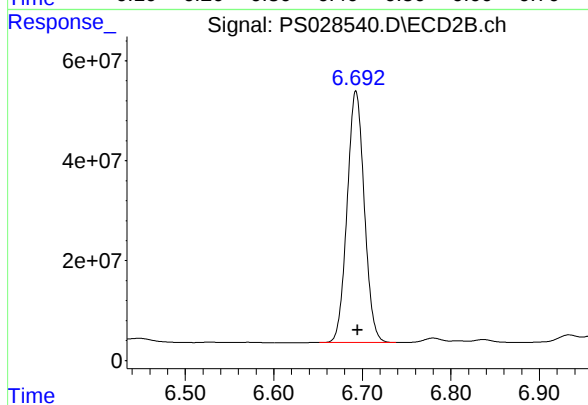
#1 Dalapon

R.T.: 2.698 min
Delta R.T.: 0.001 min
Response: 651701611
Conc: 269.31 ng/ml m



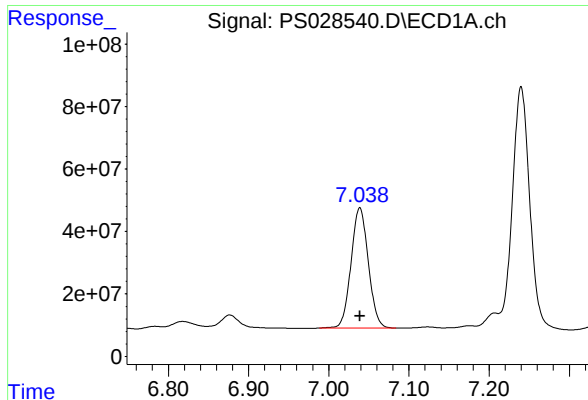
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.410 min
Delta R.T.: 0.000 min
Response: 1417755684
Conc: 379.96 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.693 min
Delta R.T.: -0.002 min
Response: 677194892
Conc: 350.44 ng/ml



#3 4-Nitrophenol

R.T.: 7.038 min
Delta R.T.: 0.000 min
Response: 578741706
Conc: 340.75 ng/ml

Instrument :

ECD_S

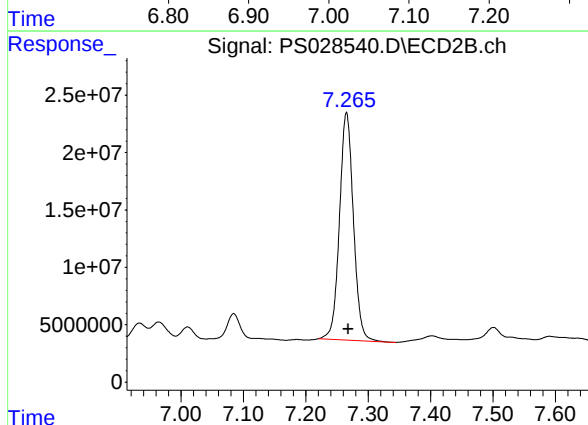
ClientSampleId :

BP-F-2MSD

Manual Integrations

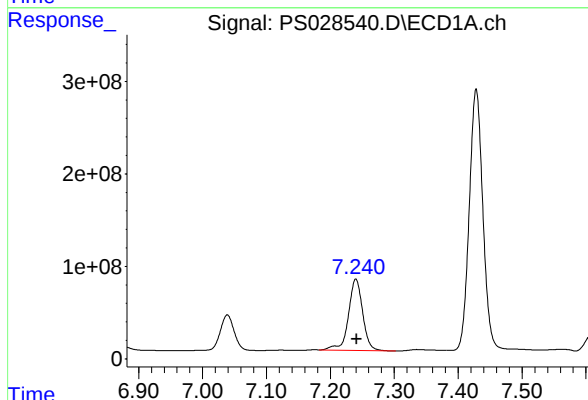
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



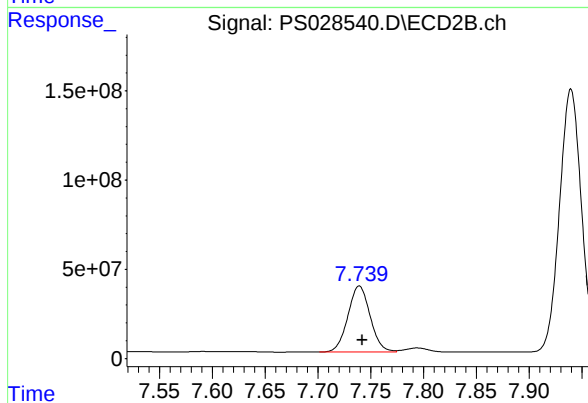
#3 4-Nitrophenol

R.T.: 7.265 min
Delta R.T.: -0.003 min
Response: 306720455
Conc: 355.25 ng/ml



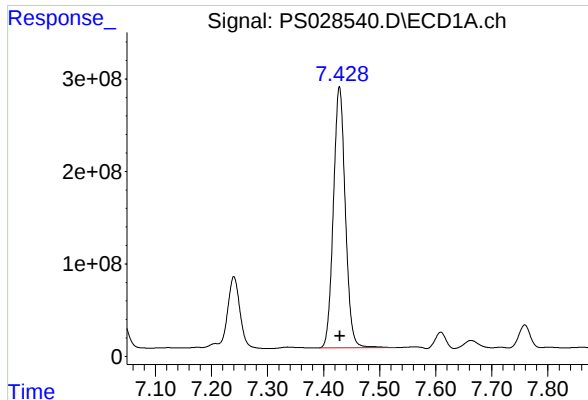
#4 2,4-DCAA

R.T.: 7.240 min
Delta R.T.: 0.000 min
Response: 1195638238
Conc: 467.80 ng/ml



#4 2,4-DCAA

R.T.: 7.739 min
Delta R.T.: -0.003 min
Response: 543793718
Conc: 420.79 ng/ml



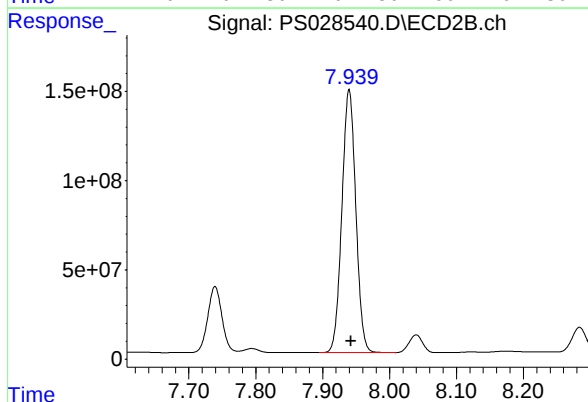
#5 DICAMBA

R.T.: 7.428 min
Delta R.T.: 0.000 min
Response: 4169572787
Conc: 381.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MSD

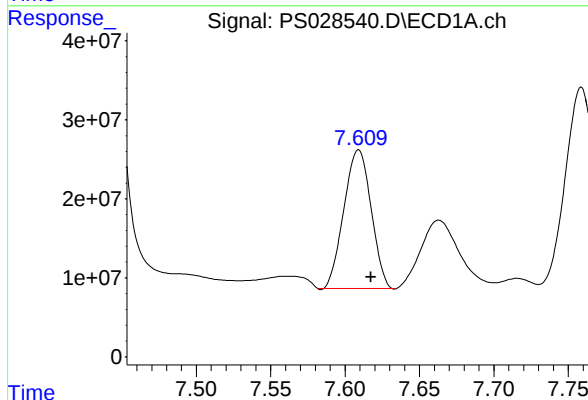
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



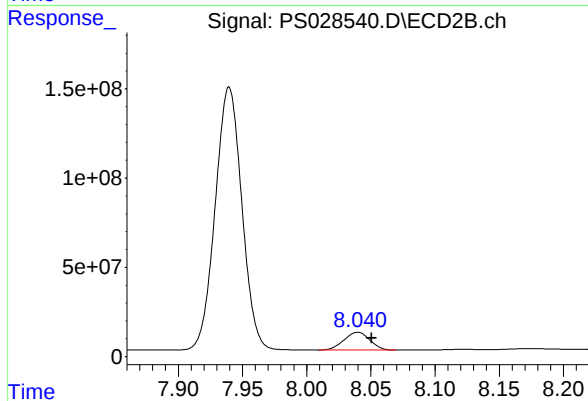
#5 DICAMBA

R.T.: 7.940 min
Delta R.T.: -0.003 min
Response: 2132420729
Conc: 373.84 ng/ml



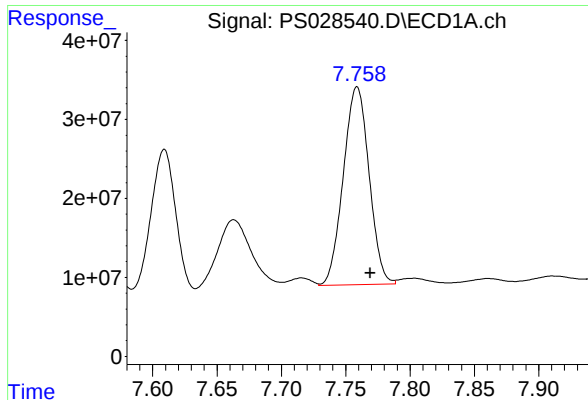
#6 MCPP

R.T.: 7.609 min
Delta R.T.: -0.008 min
Response: 223519292
Conc: 31.77 ug/ml



#6 MCPP

R.T.: 8.040 min
Delta R.T.: -0.011 min
Response: 139878701
Conc: 32.52 ug/ml



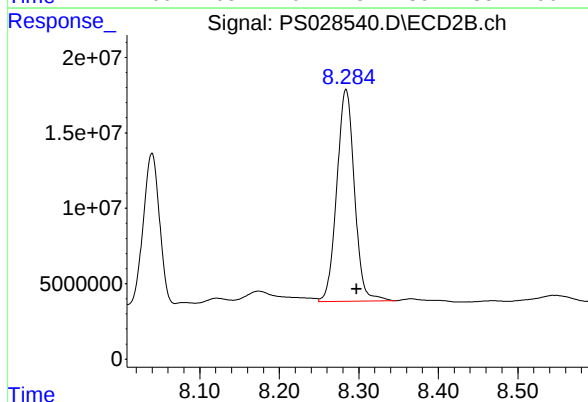
#7 MCPA

R.T.: 7.759 min
Delta R.T.: -0.010 min
Response: 349762335
Conc: 34.27 ug/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MSD

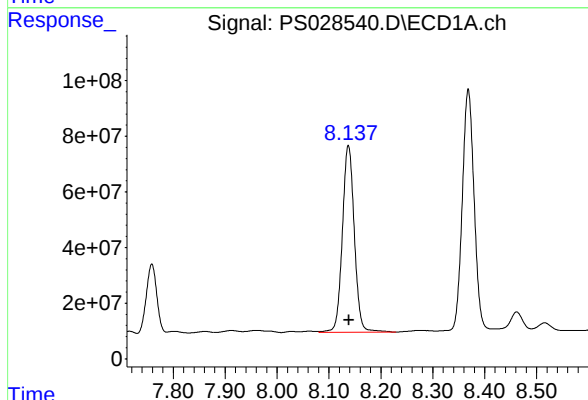
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



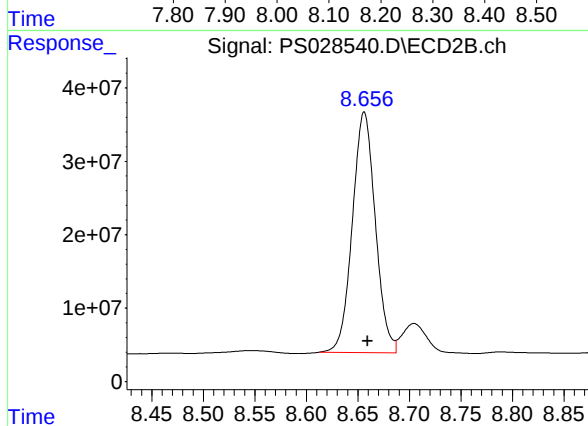
#7 MCPA

R.T.: 8.284 min
Delta R.T.: -0.013 min
Response: 216592204
Conc: 34.97 ug/ml



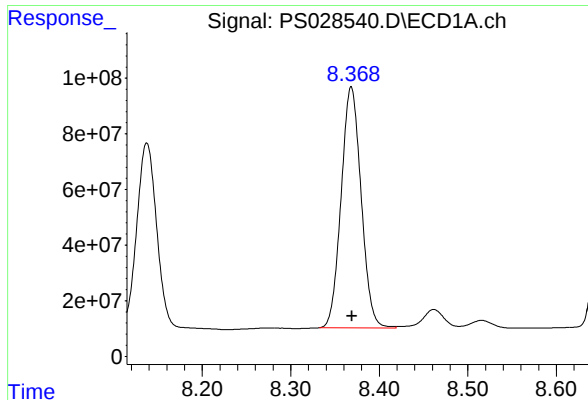
#8 DICHLORPROP

R.T.: 8.138 min
Delta R.T.: -0.001 min
Response: 1078428315
Conc: 365.40 ng/ml



#8 DICHLORPROP

R.T.: 8.656 min
Delta R.T.: -0.003 min
Response: 508478228
Conc: 348.14 ng/ml



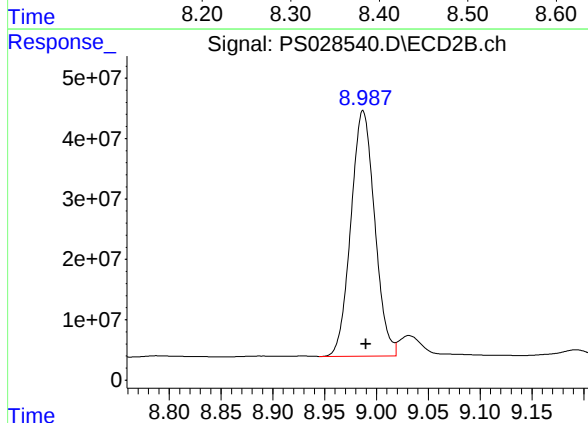
#9 2,4-D

R.T.: 8.368 min
Delta R.T.: 0.000 min
Response: 1357848045
Conc: 424.74 ng/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MSD

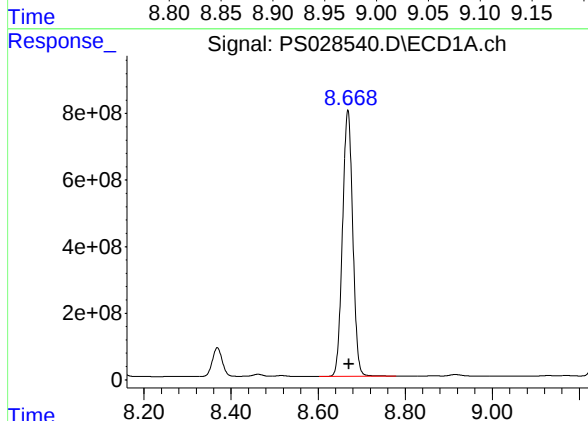
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



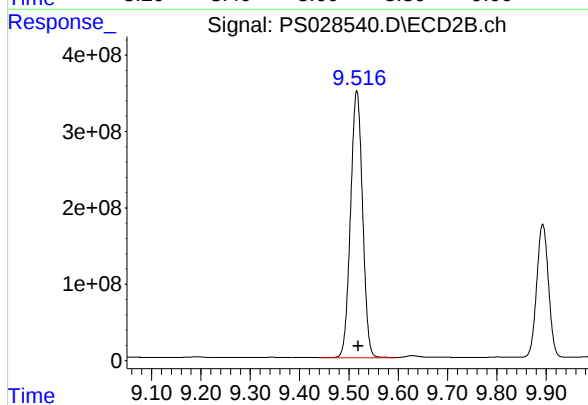
#9 2,4-D

R.T.: 8.987 min
Delta R.T.: -0.003 min
Response: 649957877
Conc: 415.16 ng/ml



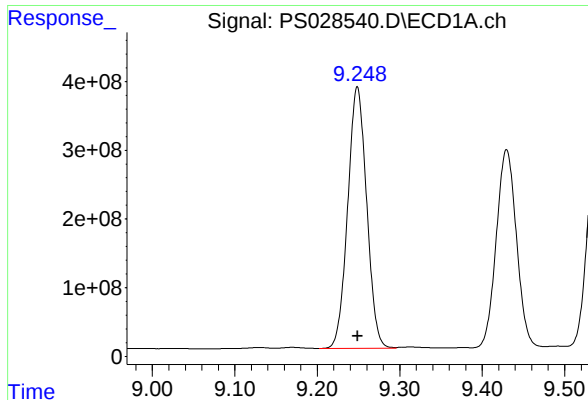
#10 Pentachlorophenol

R.T.: 8.668 min
Delta R.T.: -0.002 min
Response: 13093051938
Conc: 313.71 ng/ml



#10 Pentachlorophenol

R.T.: 9.516 min
Delta R.T.: -0.003 min
Response: 5922612820
Conc: 295.46 ng/ml



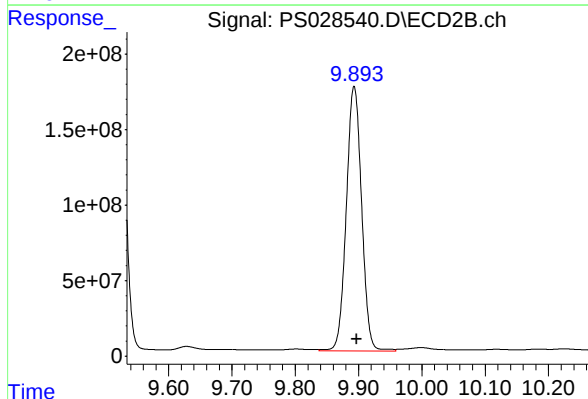
#11 2,4,5-TP (SILVEX)

R.T.: 9.249 min
Delta R.T.: 0.000 min
Response: 6072425095
Conc: 349.58 ng/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MSD

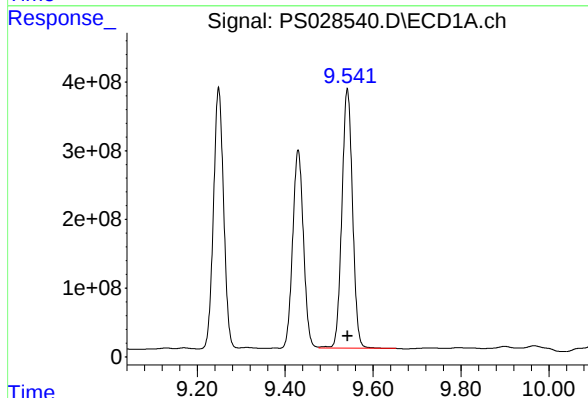
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



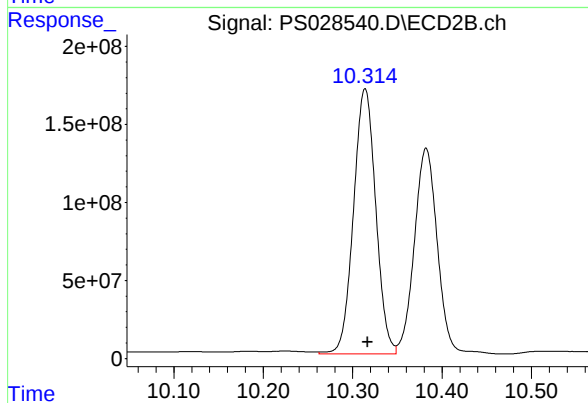
#11 2,4,5-TP (SILVEX)

R.T.: 9.893 min
Delta R.T.: -0.004 min
Response: 2948241530
Conc: 349.39 ng/ml



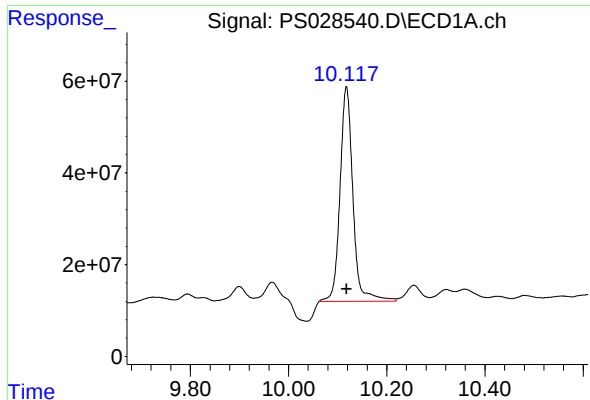
#12 2,4,5-T

R.T.: 9.542 min
Delta R.T.: 0.000 min
Response: 6333768142
Conc: 356.34 ng/ml



#12 2,4,5-T

R.T.: 10.314 min
Delta R.T.: -0.003 min
Response: 2929249274
Conc: 349.45 ng/ml



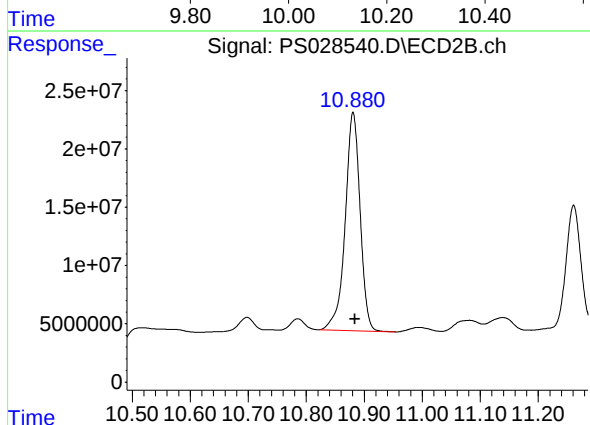
#13 2,4-DB

R.T.: 10.118 min
Delta R.T.: 0.000 min
Response: 855973950
Conc: 314.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MSD

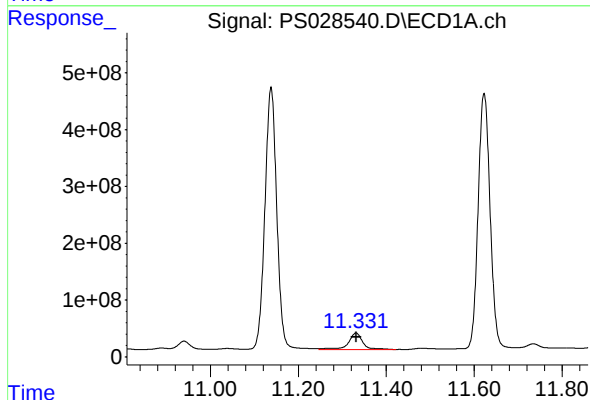
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



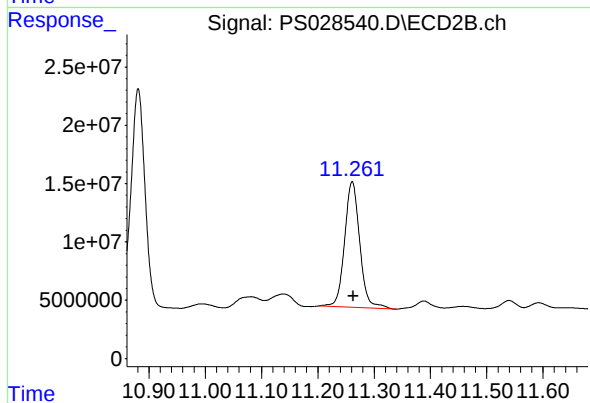
#13 2,4-DB

R.T.: 10.881 min
Delta R.T.: -0.003 min
Response: 333980880
Conc: 318.76 ng/ml



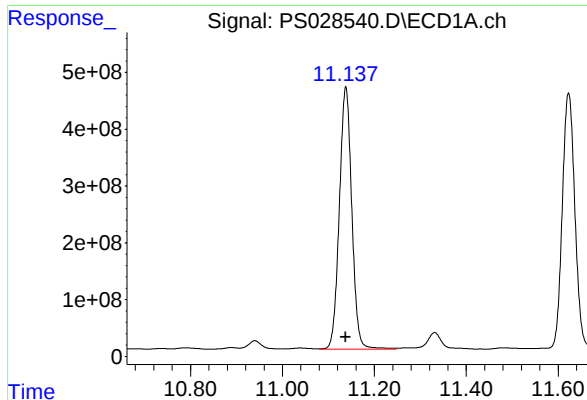
#14 DINOSEB

R.T.: 11.331 min
Delta R.T.: 0.000 min
Response: 666416590
Conc: 46.74 ng/ml



#14 DINOSEB

R.T.: 11.261 min
Delta R.T.: -0.002 min
Response: 201569329
Conc: 36.46 ng/ml



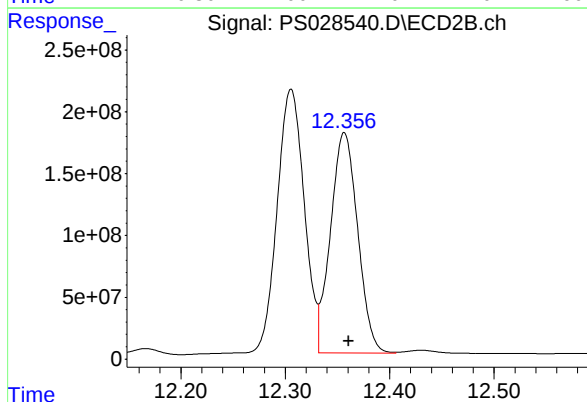
#15 Picloram

R.T.: 11.138 min
Delta R.T.: 0.000 min
Response: 8670366411
Conc: 307.90 ng/ml

Instrument :
ECD_S
ClientSampleId :
BP-F-2MSD

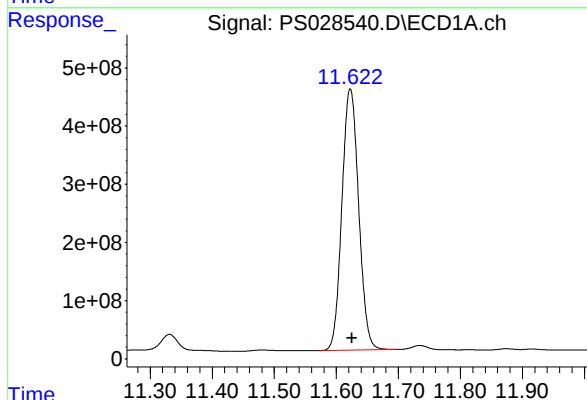
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



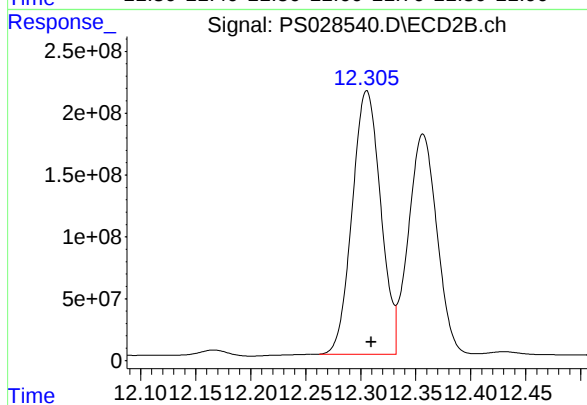
#15 Picloram

R.T.: 12.357 min
Delta R.T.: -0.004 min
Response: 3226465690
Conc: 285.05 ng/ml



#16 DCPA

R.T.: 11.623 min
Delta R.T.: -0.003 min
Response: 8419828834
Conc: 319.98 ng/ml



#16 DCPA

R.T.: 12.305 min
Delta R.T.: -0.004 min
Response: 3838021723
Conc: 395.74 ng/ml

Manual Integration Report

Sequence:	PS111324	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028528.D	2,4-DCAA	yogesh	11/14/2024 8:46:06 AM	Ankita	11/14/2024 11:10:19	Peak Integrated by Software

Manual Integration Report

Sequence:

PS111424

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4821-05MS	PS028539.D	4-Nitrophenol	yogesh	11/15/2024 9:31:57 AM	Ankita	11/15/2024 10:06:56	Peak Integrated by Software
P4821-05MS	PS028539.D	Dalapon #2	yogesh	11/15/2024 9:31:57 AM	Ankita	11/15/2024 10:06:56	Peak Integrated by Software
P4821-05MSD	PS028540.D	4-Nitrophenol	yogesh	11/15/2024 9:31:59 AM	Ankita	11/15/2024 10:06:57	Peak Integrated by Software
P4821-05MSD	PS028540.D	Dalapon #2	yogesh	11/15/2024 9:31:59 AM	Ankita	11/15/2024 10:06:57	Peak Integrated by Software
HSTDCCC750	PS028545.D	MCPP	yogesh	11/15/2024 9:32:02 AM	Ankita	11/15/2024 10:07:00	Peak Integrated by Software

Manual Integration Report

Sequence:	PS112524	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS028613.D	2,4-DCAA	yogesh	11/26/2024 8:20:19 AM	Ankita	11/26/2024 2:24:48	Peak Integrated by Software
I.BLK	PS028613.D	2,4-DCAA #2	yogesh	11/26/2024 8:20:19 AM	Ankita	11/26/2024 2:24:48	Peak Integrated by Software
HSTDCCC750	PS028614.D	2,4-DCAA	yogesh	11/26/2024 8:20:22 AM	Ankita	11/26/2024 2:24:50	Peak Integrated by Software
HSTDCCC750	PS028614.D	2,4-DCAA #2	yogesh	11/26/2024 8:20:22 AM	Ankita	11/26/2024 2:24:50	Peak Integrated by Software
HSTDCCC750	PS028614.D	3,5-DICHLOROBENZOI C ACID	yogesh	11/26/2024 8:20:22 AM	Ankita	11/26/2024 2:24:50	Peak Integrated by Software
HSTDCCC750	PS028614.D	3,5-DICHLOROBENZOI C ACID #2	yogesh	11/26/2024 8:20:22 AM	Ankita	11/26/2024 2:24:50	Peak Integrated by Software
P4495-17	PS028615.D	2,4-DB	yogesh	11/26/2024 8:20:27 AM	Ankita	11/26/2024 2:24:52	Peak Integrated by Software
P4495-17	PS028615.D	DINOSEB #2	yogesh	11/26/2024 8:20:27 AM	Ankita	11/26/2024 2:24:52	Peak Integrated by Software
P4495-17	PS028615.D	Pentachlorophenol	yogesh	11/26/2024 8:20:27 AM	Ankita	11/26/2024 2:24:52	Peak Integrated by Software
P4495-17RE	PS028616.D	2,4,5-T	yogesh	11/26/2024 8:20:29 AM	Ankita	11/26/2024 2:24:53	Peak Integrated by Software
P4495-17RE	PS028616.D	2,4,5-TP (SILVEX) #2	yogesh	11/26/2024 8:20:29 AM	Ankita	11/26/2024 2:24:53	Peak Integrated by Software
P4495-17RE	PS028616.D	2,4-D #2	yogesh	11/26/2024 8:20:29 AM	Ankita	11/26/2024 2:24:53	Peak Integrated by Software
P4495-17RE	PS028616.D	2,4-DB	yogesh	11/26/2024 8:20:29 AM	Ankita	11/26/2024 2:24:53	Peak Integrated by Software

Manual Integration Report

Sequence:	PS112524	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4495-17RE	PS028616.D	2,4-DCAA	yogesh	11/26/2024 8:20:29 AM	Ankita	11/26/2024 2:24:53	Peak Integrated by Software
P4495-17RE	PS028616.D	2,4-DCAA #2	yogesh	11/26/2024 8:20:29 AM	Ankita	11/26/2024 2:24:53	Peak Integrated by Software
P4495-17RE	PS028616.D	DICHLORPROP #2	yogesh	11/26/2024 8:20:29 AM	Ankita	11/26/2024 2:24:53	Peak Integrated by Software
P4495-17RE	PS028616.D	DINOSEB	yogesh	11/26/2024 8:20:29 AM	Ankita	11/26/2024 2:24:53	Peak Integrated by Software
P4495-17RE	PS028616.D	DINOSEB #2	yogesh	11/26/2024 8:20:29 AM	Ankita	11/26/2024 2:24:53	Peak Integrated by Software
I.BLK	PS028617.D	2,4-DCAA #2	yogesh	11/26/2024 8:20:31 AM	Ankita	11/26/2024 2:24:55	Peak Integrated by Software
HSTDCCC750	PS028618.D	2,4-DCAA	yogesh	11/26/2024 8:20:34 AM	Ankita	11/26/2024 2:24:57	Peak Integrated by Software
HSTDCCC750	PS028618.D	2,4-DCAA #2	yogesh	11/26/2024 8:20:34 AM	Ankita	11/26/2024 2:24:57	Peak Integrated by Software
HSTDCCC750	PS028618.D	4-Nitrophenol	yogesh	11/26/2024 8:20:34 AM	Ankita	11/26/2024 2:24:57	Peak Integrated by Software
I.BLK	PS028628.D	2,4-DCAA	yogesh	11/26/2024 8:21:02 AM	Ankita	11/26/2024 2:25:18	Peak Integrated by Software
I.BLK	PS028628.D	2,4-DCAA #2	yogesh	11/26/2024 8:21:02 AM	Ankita	11/26/2024 2:25:18	Peak Integrated by Software
HSTDCCC750	PS028629.D	2,4-DCAA #2	yogesh	11/26/2024 8:21:04 AM	Ankita	11/26/2024 2:25:21	Peak Integrated by Software
HSTDCCC750	PS028629.D	3,5-DICHLOROBENZOI C ACID	yogesh	11/26/2024 8:21:04 AM	Ankita	11/26/2024 2:25:21	Peak Integrated by Software

Manual Integration Report

Sequence:	PS112524	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028629.D	3,5-DICHLOROBENZOI C ACID #2	yogesh	11/26/2024 8:21:04 AM	Ankita	11/26/2024 2:25:21	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM
SubDirectory	PS111324	HP Acquire Method	HP Processing Method PS111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23469		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028484.D	13 Nov 2024 08:41	AR\AJ	Ok
2	I.BLK	PS028485.D	13 Nov 2024 09:06	AR\AJ	Not Ok
3	HSTDCCC750	PS028486.D	13 Nov 2024 10:56	AR\AJ	Not Ok
4	I.BLK	PS028487.D	13 Nov 2024 11:20	AR\AJ	Ok
5	HSTDICC200	PS028488.D	13 Nov 2024 11:44	AR\AJ	Ok
6	HSTDICC500	PS028489.D	13 Nov 2024 12:09	AR\AJ	Ok
7	HSTDICC750	PS028490.D	13 Nov 2024 12:34	AR\AJ	Ok
8	HSTDICC1000	PS028491.D	13 Nov 2024 12:58	AR\AJ	Ok
9	HSTDICC1500	PS028492.D	13 Nov 2024 13:23	AR\AJ	Ok
10	HSTDICV750	PS028493.D	13 Nov 2024 13:48	AR\AJ	Ok
11	I.BLK	PS028494.D	13 Nov 2024 14:12	AR\AJ	Ok
12	HSTDCCC750	PS028495.D	13 Nov 2024 14:37	AR\AJ	Ok
13	P4793-01	PS028496.D	13 Nov 2024 15:02	AR\AJ	Ok,M
14	P4795-01	PS028497.D	13 Nov 2024 15:26	AR\AJ	Ok,M
15	PB164863BL	PS028498.D	13 Nov 2024 15:51	AR\AJ	Ok
16	PB164863BS	PS028499.D	13 Nov 2024 16:15	AR\AJ	Ok
17	P4756-01	PS028500.D	13 Nov 2024 16:40	AR\AJ	Ok,M
18	P4756-01MS	PS028501.D	13 Nov 2024 17:05	AR\AJ	Ok,M
19	P4756-01MSD	PS028502.D	13 Nov 2024 17:29	AR\AJ	Ok,M
20	P4798-01	PS028503.D	13 Nov 2024 17:54	AR\AJ	Ok,M
21	P4807-01	PS028504.D	13 Nov 2024 18:18	AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM
SubDirectory	PS111324	HP Acquire Method	HP Processing Method PS111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23469		

22	P4807-05	PS028505.D	13 Nov 2024 18:42	AR\AJ	Ok
23	I.BLK	PS028506.D	13 Nov 2024 19:07	AR\AJ	Ok
24	HSTDCCC750	PS028507.D	13 Nov 2024 19:32	AR\AJ	Ok
25	P4807-09	PS028508.D	13 Nov 2024 19:56	AR\AJ	Ok
26	P4807-13	PS028509.D	13 Nov 2024 20:21	AR\AJ	Ok
27	P4809-01	PS028510.D	13 Nov 2024 20:45	AR\AJ	Ok,M
28	PB164946BL	PS028511.D	13 Nov 2024 21:10	AR\AJ	Ok
29	PB164946BS	PS028512.D	13 Nov 2024 21:35	AR\AJ	Ok,M
30	P4788-01MS	PS028513.D	13 Nov 2024 21:59	AR\AJ	Ok,M
31	P4788-01MSD	PS028514.D	13 Nov 2024 22:24	AR\AJ	Ok,M
32	I.BLK	PS028515.D	13 Nov 2024 22:48	AR\AJ	Ok
33	HSTDCCC750	PS028516.D	13 Nov 2024 23:13	AR\AJ	Ok
34	PB164959BL	PS028517.D	13 Nov 2024 23:37	AR\AJ	Ok
35	PB164959BS	PS028518.D	14 Nov 2024 00:02	AR\AJ	Ok
36	PB164880TB	PS028519.D	14 Nov 2024 00:26	AR\AJ	Ok
37	P4799-03	PS028520.D	14 Nov 2024 00:51	AR\AJ	Ok
38	P4799-03MS	PS028521.D	14 Nov 2024 01:15	AR\AJ	Ok,M
39	P4799-03MSD	PS028522.D	14 Nov 2024 01:40	AR\AJ	Ok,M
40	P4799-07	PS028523.D	14 Nov 2024 02:05	AR\AJ	Ok
41	P4799-11	PS028524.D	14 Nov 2024 02:29	AR\AJ	Not Ok
42	P4799-15	PS028525.D	14 Nov 2024 02:54	AR\AJ	Ok
43	P4799-19	PS028526.D	14 Nov 2024 03:18	AR\AJ	Ok
44	I.BLK	PS028527.D	14 Nov 2024 03:43	AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM
SubDirectory	PS111324	HP Acquire Method	HP Processing Method PS111324
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds			
CCC			
Internal Standard/PEM			
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

45	HSTDCCC750	PS028528.D	14 Nov 2024 04:08	AR\AJ	Ok,M
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M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111424

Review By	yogesh	Review On	11/15/2024 10:07:20 AM
Supervise By	Ankita	Supervise On	11/15/2024 10:08:05 AM
SubDirectory	PS111424	HP Acquire Method	HP Processing Method PS111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23469		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028529.D	14 Nov 2024 08:57	AR\AJ	Ok
2	I.BLK	PS028530.D	14 Nov 2024 09:21	AR\AJ	Ok
3	HSTDCCC750	PS028531.D	14 Nov 2024 09:45	AR\AJ	Ok
4	P4799-11	PS028532.D	14 Nov 2024 11:09	AR\AJ	Ok
5	I.BLK	PS028533.D	14 Nov 2024 11:38	AR\AJ	Ok
6	HSTDCCC750	PS028534.D	14 Nov 2024 12:02	AR\AJ	Ok
7	PB164971BL	PS028535.D	14 Nov 2024 16:35	AR\AJ	Ok
8	PB164971BS	PS028536.D	14 Nov 2024 17:00	AR\AJ	Ok
9	P4821-01	PS028537.D	14 Nov 2024 17:24	AR\AJ	Ok
10	P4821-05	PS028538.D	14 Nov 2024 17:49	AR\AJ	Ok
11	P4821-05MS	PS028539.D	14 Nov 2024 18:14	AR\AJ	Ok,M
12	P4821-05MSD	PS028540.D	14 Nov 2024 18:38	AR\AJ	Ok,M
13	P4823-01	PS028541.D	14 Nov 2024 19:02	AR\AJ	Ok,M
14	P4833-01	PS028542.D	14 Nov 2024 19:27	AR\AJ	Ok
15	P4833-05	PS028543.D	14 Nov 2024 19:51	AR\AJ	Ok
16	I.BLK	PS028544.D	14 Nov 2024 20:16	AR\AJ	Ok
17	HSTDCCC750	PS028545.D	14 Nov 2024 20:40	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS112524

Review By	yogesh	Review On	11/26/2024 8:21:25 AM
Supervise By	Ankita	Supervise On	11/26/2024 2:25:39 PM
SubDirectory	PS112524	HP Acquire Method	HP Processing Method PS111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23469		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028612.D	25 Nov 2024 09:26	AR\AJ	Ok
2	I.BLK	PS028613.D	25 Nov 2024 09:50	AR\AJ	Ok,M
3	HSTDCCC750	PS028614.D	25 Nov 2024 10:14	AR\AJ	Ok,M
4	P4495-17	PS028615.D	25 Nov 2024 10:39	AR\AJ	ReRun
5	P4495-17RE	PS028616.D	25 Nov 2024 11:03	AR\AJ	Confirms
6	I.BLK	PS028617.D	25 Nov 2024 11:27	AR\AJ	Ok,M
7	HSTDCCC750	PS028618.D	25 Nov 2024 11:51	AR\AJ	Ok,M
8	PB165228BL	PS028619.D	25 Nov 2024 16:41	AR\AJ	Ok,M
9	PB165228BS	PS028620.D	25 Nov 2024 17:05	AR\AJ	Ok,M
10	P4938-01	PS028621.D	25 Nov 2024 17:29	AR\AJ	Ok,M
11	P4938-01MS	PS028622.D	25 Nov 2024 17:53	AR\AJ	Ok,M
12	P4938-01MSD	PS028623.D	25 Nov 2024 18:17	AR\AJ	Ok,M
13	P4938-05	PS028624.D	25 Nov 2024 18:41	AR\AJ	Ok,M
14	P4951-01	PS028625.D	25 Nov 2024 19:05	AR\AJ	ReRun
15	P4985-01	PS028626.D	25 Nov 2024 19:29	AR\AJ	Ok,M
16	P4985-05	PS028627.D	25 Nov 2024 19:53	AR\AJ	ReRun
17	I.BLK	PS028628.D	25 Nov 2024 20:17	AR\AJ	Ok,M
18	HSTDCCC750	PS028629.D	25 Nov 2024 21:30	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM
SubDirectory	PS111324	HP Acquire Method	HP Processing Method PS111324

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028484.D	13 Nov 2024 08:41		AR\AJ	Ok
2	I.BLK	I.BLK	PS028485.D	13 Nov 2024 09:06	Need ICAL	AR\AJ	Not Ok
3	HSTDCCC750	HSTDCCC750	PS028486.D	13 Nov 2024 10:56	Need ICAL	AR\AJ	Not Ok
4	I.BLK	I.BLK	PS028487.D	13 Nov 2024 11:20		AR\AJ	Ok
5	HSTDICC200	HSTDICC200	PS028488.D	13 Nov 2024 11:44		AR\AJ	Ok
6	HSTDICC500	HSTDICC500	PS028489.D	13 Nov 2024 12:09		AR\AJ	Ok
7	HSTDICC750	HSTDICC750	PS028490.D	13 Nov 2024 12:34		AR\AJ	Ok
8	HSTDICC1000	HSTDICC1000	PS028491.D	13 Nov 2024 12:58		AR\AJ	Ok
9	HSTDICC1500	HSTDICC1500	PS028492.D	13 Nov 2024 13:23		AR\AJ	Ok
10	HSTDICV750	ICVPS111324	PS028493.D	13 Nov 2024 13:48		AR\AJ	Ok
11	I.BLK	I.BLK	PS028494.D	13 Nov 2024 14:12		AR\AJ	Ok
12	HSTDCCC750	HSTDCCC750	PS028495.D	13 Nov 2024 14:37		AR\AJ	Ok
13	P4793-01	M00-24-00345	PS028496.D	13 Nov 2024 15:02		AR\AJ	Ok,M
14	P4795-01	LAW-23-00189	PS028497.D	13 Nov 2024 15:26		AR\AJ	Ok,M
15	PB164863BL	PB164863BL	PS028498.D	13 Nov 2024 15:51		AR\AJ	Ok
16	PB164863BS	PB164863BS	PS028499.D	13 Nov 2024 16:15		AR\AJ	Ok
17	P4756-01	BP-B4	PS028500.D	13 Nov 2024 16:40		AR\AJ	Ok,M
18	P4756-01MS	BP-B4MS	PS028501.D	13 Nov 2024 17:05	Some compound recovery fail	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM
SubDirectory	PS111324	HP Acquire Method	HP Processing Method PS111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4756-01MSD	BP-B4MSD	PS028502.D	13 Nov 2024 17:29	some compound recovery fail	AR\AJ	Ok,M
20	P4798-01	MH-6	PS028503.D	13 Nov 2024 17:54		AR\AJ	Ok,M
21	P4807-01	TP-7	PS028504.D	13 Nov 2024 18:18		AR\AJ	Ok
22	P4807-05	BF-F14	PS028505.D	13 Nov 2024 18:42		AR\AJ	Ok
23	I.BLK	I.BLK	PS028506.D	13 Nov 2024 19:07		AR\AJ	Ok
24	HSTDCCC750	HSTDCCC750	PS028507.D	13 Nov 2024 19:32		AR\AJ	Ok
25	P4807-09	BF-F13	PS028508.D	13 Nov 2024 19:56		AR\AJ	Ok
26	P4807-13	TP-6	PS028509.D	13 Nov 2024 20:21		AR\AJ	Ok
27	P4809-01	MH-5	PS028510.D	13 Nov 2024 20:45		AR\AJ	Ok,M
28	PB164946BL	PB164946BL	PS028511.D	13 Nov 2024 21:10		AR\AJ	Ok
29	PB164946BS	PB164946BS	PS028512.D	13 Nov 2024 21:35		AR\AJ	Ok,M
30	P4788-01MS	BP-G3MS	PS028513.D	13 Nov 2024 21:59	Some compound recovery fail	AR\AJ	Ok,M
31	P4788-01MSD	BP-G3MSD	PS028514.D	13 Nov 2024 22:24	Some compound recovery fail	AR\AJ	Ok,M
32	I.BLK	I.BLK	PS028515.D	13 Nov 2024 22:48		AR\AJ	Ok
33	HSTDCCC750	HSTDCCC750	PS028516.D	13 Nov 2024 23:13		AR\AJ	Ok
34	PB164959BL	PB164959BL	PS028517.D	13 Nov 2024 23:37		AR\AJ	Ok
35	PB164959BS	PB164959BS	PS028518.D	14 Nov 2024 00:02	Recovery Fail in DINOSEB-I	AR\AJ	Ok
36	PB164880TB	PB164880TB	PS028519.D	14 Nov 2024 00:26		AR\AJ	Ok
37	P4799-03	WC-TA2-02-C	PS028520.D	14 Nov 2024 00:51		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111324

Review By	yogesh	Review On	11/14/2024 8:46:40 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:10:35 AM
SubDirectory	PS111324	HP Acquire Method	HP Processing Method PS111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

38	P4799-03MS	WC-TA2-02-CMS	PS028521.D	14 Nov 2024 01:15	Some compound recovery fail	AR\AJ	Ok,M
39	P4799-03MSD	WC-TA2-02-CMSD	PS028522.D	14 Nov 2024 01:40	Some compound recovery fail	AR\AJ	Ok,M
40	P4799-07	WC-TA2-03-C	PS028523.D	14 Nov 2024 02:05		AR\AJ	Ok
41	P4799-11	WC-TA1-01-C	PS028524.D	14 Nov 2024 02:29	will be reanalyzed for confirmation	AR\AJ	Not Ok
42	P4799-15	WC-TA1-02-C	PS028525.D	14 Nov 2024 02:54		AR\AJ	Ok
43	P4799-19	WC-TA1-03-C	PS028526.D	14 Nov 2024 03:18		AR\AJ	Ok
44	I.BLK	I.BLK	PS028527.D	14 Nov 2024 03:43		AR\AJ	Ok
45	HSTDCCC750	HSTDCCC750	PS028528.D	14 Nov 2024 04:08		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111424

Review By	yogesh	Review On	11/15/2024 10:07:20 AM
Supervise By	Ankita	Supervise On	11/15/2024 10:08:05 AM
SubDirectory	PS111424	HP Acquire Method	HP Processing Method PS111324

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028529.D	14 Nov 2024 08:57		AR\AJ	Ok
2	I.BLK	I.BLK	PS028530.D	14 Nov 2024 09:21		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028531.D	14 Nov 2024 09:45		AR\AJ	Ok
4	P4799-11	WC-TA1-01-C	PS028532.D	14 Nov 2024 11:09		AR\AJ	Ok
5	I.BLK	I.BLK	PS028533.D	14 Nov 2024 11:38		AR\AJ	Ok
6	HSTDCCC750	HSTDCCC750	PS028534.D	14 Nov 2024 12:02		AR\AJ	Ok
7	PB164971BL	PB164971BL	PS028535.D	14 Nov 2024 16:35		AR\AJ	Ok
8	PB164971BS	PB164971BS	PS028536.D	14 Nov 2024 17:00		AR\AJ	Ok
9	P4821-01	BP-F-24	PS028537.D	14 Nov 2024 17:24		AR\AJ	Ok
10	P4821-05	BP-F-2	PS028538.D	14 Nov 2024 17:49		AR\AJ	Ok
11	P4821-05MS	BP-F-2MS	PS028539.D	14 Nov 2024 18:14	Some compound recovery fail	AR\AJ	Ok,M
12	P4821-05MSD	BP-F-2MSD	PS028540.D	14 Nov 2024 18:38	Some compound recovery fail	AR\AJ	Ok,M
13	P4823-01	MH-4	PS028541.D	14 Nov 2024 19:02		AR\AJ	Ok,M
14	P4833-01	MH-731	PS028542.D	14 Nov 2024 19:27		AR\AJ	Ok
15	P4833-05	TP-2	PS028543.D	14 Nov 2024 19:51		AR\AJ	Ok
16	I.BLK	I.BLK	PS028544.D	14 Nov 2024 20:16		AR\AJ	Ok
17	HSTDCCC750	HSTDCCC750	PS028545.D	14 Nov 2024 20:40		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS112524

Review By	yogesh	Review On	11/26/2024 8:21:25 AM
Supervise By	Ankita	Supervise On	11/26/2024 2:25:39 PM
SubDirectory	PS112524	HP Acquire Method	HP Processing Method PS111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462		
CCC	PP23462		
Internal Standard/PEM	PP23469		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028612.D	25 Nov 2024 09:26		AR\AJ	Ok
2	I.BLK	I.BLK	PS028613.D	25 Nov 2024 09:50		AR\AJ	Ok,M
3	HSTDCCC750	HSTDCCC750	PS028614.D	25 Nov 2024 10:14		AR\AJ	Ok,M
4	P4495-17	PT-HERB-SOIL	PS028615.D	25 Nov 2024 10:39	Surrogate Fail in 2,4-DCAA-I	AR\AJ	ReRun
5	P4495-17RE	PT-HERB-SOILRE	PS028616.D	25 Nov 2024 11:03	Surrogate Fail in 2,4-DCAA-I	AR\AJ	Confirms
6	I.BLK	I.BLK	PS028617.D	25 Nov 2024 11:27		AR\AJ	Ok,M
7	HSTDCCC750	HSTDCCC750	PS028618.D	25 Nov 2024 11:51		AR\AJ	Ok,M
8	PB165228BL	PB165228BL	PS028619.D	25 Nov 2024 16:41		AR\AJ	Ok,M
9	PB165228BS	PB165228BS	PS028620.D	25 Nov 2024 17:05		AR\AJ	Ok,M
10	P4938-01	MH-732	PS028621.D	25 Nov 2024 17:29		AR\AJ	Ok,M
11	P4938-01MS	MH-732MS	PS028622.D	25 Nov 2024 17:53	Some compound recovery fail	AR\AJ	Ok,M
12	P4938-01MSD	MH-732MSD	PS028623.D	25 Nov 2024 18:17	Some compound recovery fail	AR\AJ	Ok,M
13	P4938-05	MH-734	PS028624.D	25 Nov 2024 18:41		AR\AJ	Ok,M
14	P4951-01	AU-05-112124	PS028625.D	25 Nov 2024 19:05	Surrogate Fail in 2,4-DCAA-II	AR\AJ	ReRun
15	P4985-01	MH-756-WC	PS028626.D	25 Nov 2024 19:29		AR\AJ	Ok,M
16	P4985-05	MH-740-WC	PS028627.D	25 Nov 2024 19:53	Surrogate Fail in 2,4-DCAA-I	AR\AJ	ReRun
17	I.BLK	I.BLK	PS028628.D	25 Nov 2024 20:17		AR\AJ	Ok,M
18	HSTDCCC750	HSTDCCC750	PS028629.D	25 Nov 2024 21:30		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS112524

Review By	yogesh	Review On	11/26/2024 8:21:25 AM
Supervise By	Ankita	Supervise On	11/26/2024 2:25:39 PM
SubDirectory	PS112524	HP Acquire Method	HP Processing Method PS111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23458,PP23459,PP23460,PP23461,PP23462		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23469		

M : Manual Integration

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PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133085

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P4488-09	HCC-1	1	1.00	1.00	2.00	2.00	100.0	oil sample
P4488-10	HCC-2	2	1.00	1.00	2.00	2.00	100.0	oil sample
P4495-01	PT-AN-SOIL	3	1.00	1.00	2.00	2.00	100.0	
P4495-02	PT-CORR-SOIL	4	1.00	1.00	2.00	2.00	100.0	
P4495-03	PT-CN-SOIL	5	1.00	1.00	2.00	2.00	100.0	
P4495-04	PT-CN-SOIL	6	1.00	1.00	2.00	2.00	100.0	
P4495-05	PT-FP-SOIL	7	1.00	1.00	2.00	2.00	100.0	
P4495-06	PT-CR6-SOIL	8	1.00	1.00	2.00	2.00	100.0	
P4495-07	PT-NUT-SOIL	9	1.00	1.00	2.00	2.00	100.0	
P4495-08	PT-NUT-SOIL	10	1.00	1.00	2.00	2.00	100.0	
P4495-09	PT-OGP-SOIL	11	1.00	1.00	2.00	2.00	100.0	
P4495-10	PT-MET-SOIL	12	1.00	1.00	2.00	2.00	100.0	
P4495-11	PT-BNA-SOIL	13	1.00	1.00	2.00	2.00	100.0	
P4495-12	PT-TRIAZINE-SOIL	14	1.00	1.00	2.00	2.00	100.0	
P4495-13	PT-PAH-SOIL	15	1.00	1.00	2.00	2.00	100.0	
P4495-14	PT-DIES-SOIL	16	1.00	1.00	2.00	2.00	100.0	
P4495-15	PT-GAS-SOIL	17	1.00	1.00	2.00	2.00	100.0	
P4495-16	PT-NJEPH-SOIL	18	1.00	1.00	2.00	2.00	100.0	
P4495-17	PT-HERB-SOIL	19	1.00	1.00	2.00	2.00	100.0	
P4495-18	PT-PCB-SOIL	20	1.00	1.00	2.00	2.00	100.0	
P4495-19	PT-PCBO-SOIL	21	1.00	1.00	2.00	2.00	100.0	
P4495-20	PT-PEST-SOIL	22	1.00	1.00	2.00	2.00	100.0	
P4495-21	PT-CHLR-SOIL	23	1.00	1.00	2.00	2.00	100.0	
P4495-22	PT-TXP-SOIL	24	1.00	1.00	2.00	2.00	100.0	
P4495-23	PT-VOA-SOIL	25	1.00	1.00	2.00	2.00	100.0	
P4495-24	PT-SOL-SOIL	26	0.92	8.80	9.72	7.58	75.7	
P4495-25	PT-NO2-SOIL	27	1.00	1.00	2.00	2.00	100.0	
P4508-01	TP-3	28	1.14	8.38	9.52	8.64	89.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133085

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P4508-02	TP-3-EPH	29	1.15	8.81	9.96	9.22	91.6	
P4508-03	TP-3-VOC	30	1.15	8.66	9.81	8.88	89.3	
P4508-05	BP-F23	31	1.15	8.82	9.97	9.22	91.5	
P4508-06	BP-F23-EPH	32	1.14	8.83	9.97	9.29	92.3	
P4508-07	BP-F23-VOC	33	1.15	8.40	9.55	8.61	88.8	
P4508-09	BP-F22	34	1.18	8.78	9.96	9.15	90.8	
P4508-10	BP-F22-EPH	35	1.15	8.70	9.85	8.98	90.0	
P4508-11	BP-F22-VOC	36	1.16	8.60	9.76	8.68	87.4	
P4509-02	AU-06-10232024	37	1.12	8.82	9.94	9.44	94.3	
P4510-01	FDH119M-1-1	38	1.00	1.00	2.00	2.00	100.0	oilc
P4510-02	FDH119M-1-2	39	1.00	1.00	2.00	2.00	100.0	oilc
P4510-03	BC271327-1-1	40	1.00	1.00	2.00	2.00	100.0	oilc
P4510-04	BC271327-1-2	41	1.00	1.00	2.00	2.00	100.0	oilc
P4510-05	BC271327-2-1	42	1.00	1.00	2.00	2.00	100.0	oilc
P4510-06	BC271327-2-2	43	1.00	1.00	2.00	2.00	100.0	oilc
P4510-07	FDA886K-1-1	44	1.00	1.00	2.00	2.00	100.0	oilc
P4510-08	FDA886K-1-2	45	1.00	1.00	2.00	2.00	100.0	oilc
P4510-09	FDA886K-2-1	46	1.00	1.00	2.00	2.00	100.0	oilc
P4510-10	FDA886K-2-2	47	1.00	1.00	2.00	2.00	100.0	oilc
P4510-11	HID111K-1-1	48	1.00	1.00	2.00	2.00	100.0	oilc
P4510-12	HID111K-1-2	49	1.00	1.00	2.00	2.00	100.0	oilc
P4510-13	HID111K-2-1	50	1.00	1.00	2.00	2.00	100.0	oilc
P4510-14	HID111K-2-2	51	1.00	1.00	2.00	2.00	100.0	oilc
P4510-15	HID111K-3-1	52	1.00	1.00	2.00	2.00	100.0	oilc
P4510-16	HID111K-3-2	53	1.00	1.00	2.00	2.00	100.0	oilc
P4510-17	FDA563W-1-1	54	1.00	1.00	2.00	2.00	100.0	oilc
P4510-18	FDA563W-1-2	55	1.00	1.00	2.00	2.00	100.0	oilc
P4510-19	FDA563W-2-1	56	1.00	1.00	2.00	2.00	100.0	oilc

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4510-20	FDA563W-2-2	57	1.00	1.00	2.00	2.00	100.0	oilc
P4510-21	JEC128C-1-1	58	1.00	1.00	2.00	2.00	100.0	oilc
P4510-22	JEC128C-1-2	59	1.00	1.00	2.00	2.00	100.0	oilc
P4510-23	JEC128C-2-1	60	1.00	1.00	2.00	2.00	100.0	oilc
P4510-24	JEC128C-2-2	61	1.00	1.00	2.00	2.00	100.0	oilc
P4511-02	267	62	1.00	1.00	2.00	2.00	100.0	debris
P4512-03	VNJ-212	63	1.15	8.81	9.96	9.66	96.6	
P4512-04	VNJ-212-E2	64	1.16	8.48	9.64	9.39	97.1	
P4513-01	D3683	65	1.00	1.00	2.00	2.00	100.0	oil sample
P4513-02	D3694	66	1.00	1.00	2.00	2.00	100.0	debris
P4513-03	D3695	67	1.00	1.00	2.00	2.00	100.0	debris
P4514-01	BC274653-1-1	68	1.00	1.00	2.00	2.00	100.0	oilc
P4514-02	BC274653-1-2	69	1.00	1.00	2.00	2.00	100.0	oilc
P4514-03	BC274767-1-1	70	1.00	1.00	2.00	2.00	100.0	oilc
P4514-04	BC274767-1-2	71	1.00	1.00	2.00	2.00	100.0	oilc
P4514-05	BC274767-2-1	72	1.00	1.00	2.00	2.00	100.0	oilc
P4514-06	BC274767-2-2	73	1.00	1.00	2.00	2.00	100.0	oilc
P4515-01	CHVB0783	74	1.15	8.83	9.98	5.28	46.8	
P4516-01	72-11986	75	1.12	8.67	9.79	8.93	90.1	
P4517-01	NASSAU-ST-CO	76	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-03	S.JEFFERSON-CO-1	77	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-05	S.JEFFERSON-CO-2	78	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-07	FOREST-ST-CO	79	1.00	1.00	2.00	2.00	100.0	CONCRETE sample

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

133085

WorkList Name : %1-102324

WorkList ID : 184679

Department : Wet-Chemistry

Date : 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4488-09	HCC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4488-10	HCC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4495-01	PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-02	PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-03	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-04	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-05	PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-06	PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-07	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-08	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-09	PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-10	PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-11	PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-12	PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-13	PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-14	PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-15	PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-16	PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-17	PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-18	PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-19	PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

P4495-Herbicide Group1

Date/Time 10/23/24 17:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

W3 133085

WorkList Name : %1-102324

WorkList ID : 184679

Department : Wet-Chemistry

Date : 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-20	PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-21	PT-CHLR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-22	PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-23	PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-24	PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-25	PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4508-01	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-02	TP-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-03	TP-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-05	BP-F23	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-06	BP-F23-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-07	BP-F23-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-09	BP-F22	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-10	BP-F22-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-11	BP-F22-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4509-02	AU-06-10232024	Solid	Percent Solids	Cool 4 deg C	PSEG05	K61	10/23/2024	Chemtech -SO
P4510-01	FDH119M-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-02	FDH119M-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-03	BC271327-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-04	BC271327-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-05	BC271327-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

P4495-Herbicide Group1

Date/Time 10/23/24 17:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

133085

WorkList Name : %1-102324

WorkList ID : 184679

Department : Wet-Chemistry

Date : 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4510-06	BC271327-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-07	FDA886K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-08	FDA886K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-09	FDA886K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-10	FDA886K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-11	HID111K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-12	HID111K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-13	HID111K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-14	HID111K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-15	HID111K-3-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-16	HID111K-3-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-17	FDA563W-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-18	FDA563W-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-19	FDA563W-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-20	FDA563W-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-21	JEC128C-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-22	JEC128C-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-23	JEC128C-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-24	JEC128C-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4511-02	267	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4512-03	VNJ-212	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

P4495-Herbicide Group1

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

WB 133085

WorkList Name : %1-102324

WorkList ID : 184679

Department : Wet-Chemistry

Date : 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4512-04	VNJ-212-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-01	D3683	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-02	D3694	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-03	D3695	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4514-01	BC274653-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-02	BC274653-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-03	BC274767-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-04	BC274767-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-05	BC274767-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-06	BC274767-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4515-01	CHVB0783	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4516-01	72-11986	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4517-01	NASSAU-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-03	S.JEFFERSON-CO-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-05	S.JEFFERSON-CO-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-07	FOREST-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time

10/23/24 16:00

Raw Sample Received by:

W. C. C.

Raw Sample Relinquished by:

C. S.

P4495-Herbicide Group1

Date/Time

10/23/24 17:30

Raw Sample Received by:

C. S.

Raw Sample Relinquished by:

W. C. C.

SOP ID:	M8151A-Herbicide-22		
Clean Up SOP #:	N/A	Extraction Start Date :	11/14/2024
Matrix :	Solid	Extraction Start Time :	09:05
Weigh By:	RJ	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	pH Meter ID:	N/A
pH Strip Lot#:	N/A	Hood ID:	3,7
Extraction Method:	☐ Separatory Funnel	☐ Continous Liquid/Liquid	☐ Sonication
		☐ Waste Dilution	☒ Soxhlet
		Extraction End Date :	11/14/2024
		Extraction End Time :	16:15
		Concentration By:	EH
		Supervisor By :	rajesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP23930
Surrogate	1.0ML	5000 PPB	PP23907
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2538
Acidified Na2SO4	N/A	EP2503
Sand	N/A	E2865
HCL	N/A	M6111
DI WATER	N/A	N/A
37% KOH	N/A	EP2520
Methylene Chloride	N/A	E3828
1:3 SULPHURIC ACID	N/A	EP2528
Ether	N/A	E3370
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14150
Diazomethane	N/A	EP2529
Hexane	N/A	E3826
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH adjusted with HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze,40ML Vial Lot # 03-40 BTS721.

KD Bath ID:	N/A	Envap ID:	NEVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/14/24	RP (Ext. Lab)	T. P. PestHRS.
16:20	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 11/14/2024

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164971BL	HBLK971	Herbicide	30.03	N/A	ritesh	Evelyn	10			U5-1
PB164971BS	HLCS971	Herbicide	30.02	N/A	ritesh	Evelyn	10			2
P4495-17	PT-HERB-SOIL	Herbicide Group1	30.14	N/A	ritesh	Evelyn	10			3
P4821-01	BP-F-24	Herbicide	30.07	N/A	ritesh	Evelyn	10	D		4
P4821-05	BP-F-2	Herbicide	30.05	N/A	ritesh	Evelyn	10	D		5
P4821-05MS	BP-F-2MS	Herbicide	30.06	N/A	ritesh	Evelyn	10	D		6
P4821-05MS D	BP-F-2MSD	Herbicide	30.08	N/A	ritesh	Evelyn	10	D		U1-1
P4823-01	MH-4	Herbicide	30.03	N/A	ritesh	Evelyn	10	D		2
P4833-01	MH-731	Herbicide	30.04	N/A	ritesh	Evelyn	10	D		3
P4833-05	TP-2	Herbicide	30.01	N/A	ritesh	Evelyn	10	D		4

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4495H

WorkList ID : 185428

Department : Extraction

Date : 11-14-2024 09:02:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-17	PT-HERB-SOIL	Solid	Herbicide Group1	Cool 4 deg C	CHEM02	QA Of	10/21/2024	8151A
P4821-01	BP-F-24	Solid	Herbicide	Cool 4 deg C	PSEG03	L31	11/12/2024	8151A
P4821-05	BP-F-2	Solid	Herbicide	Cool 4 deg C	PSEG03	L31	11/12/2024	8151A
P4823-01	MH-4	Solid	Herbicide	Cool 4 deg C	PSEG03	L21	11/12/2024	8151A
P4833-01	MH-731	Solid	Herbicide	Cool 4 deg C	PSEG03	L31	11/13/2024	8151A
P4833-05	TP-2	Solid	Herbicide	Cool 4 deg C	PSEG03	L31	11/13/2024	8151A

Date/Time 11/14/24 9:04
Raw Sample Received by: RJ (Ext 64)
Raw Sample Relinquished by: CP

Date/Time 11/14/24 9:35
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (Ext 64)

Prep Standard - Chemical Standard Summary

Order ID : P4495
Test : Herbicide Group1
Prepbatch ID : PB164971,
Sequence ID/Qc Batch ID: PS111424,PS112524,

Standard ID :
EP2503,EP2538,PP23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469,PP23907,PP23930,

Chemical ID :
E2865,E3370,E3551,E3754,E3793,E3794,E3815,E3818,M5037,M6111,P11179,P12618,P12661,P12707,P12784,P12785,P13498,P13499,P13500,P13501,P13517,P8828,P8901,P9004,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
601	Acidified Sodium Sulphate 2	EP2503	07/01/2024	12/15/2024	Rajesh Parikh	Extraction_SC ALE_2	None	RUPESHKUMAR SHAH 07/01/2024

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3868	METHELENE CHLORIDE+ACETONE	EP2538	09/17/2024	03/11/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 09/17/2024

FROM 8000.00000ml of E3793 + 8000.00000ml of E3794 = Final Quantity: 1600.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1321	2/200 PPM Herb Mega Mix	PP23457	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
06/18/2024								

FROM 0.20000ml of P8828 + 1.00000ml of P11179 + 1.00000ml of P12618 + 1.00000ml of P12661 + 1.00000ml of P8901 + 95.80000ml of E3754 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1452	1500 PPB HERB MIX STD	PP23458	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
06/18/2024								

FROM 0.25000ml of E3754 + 75.00000ml of PP23457 = Final Quantity: 1.000 ml

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>
1453	1000 PPB Herb MIX STD	PP23459	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of E3754 + 0.50000ml of PP23457 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1455	500 PPB Herb MIX STD	PP23460	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of E3754 + 0.50000ml of PP23459 = Final Quantity: 1.000 ml

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	PP23461	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
06/18/2024								

FROM 0.80000ml of E3754 + 0.20000ml of PP23459 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1454	750 PPB Herb MIX STD	PP23462	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
06/18/2024								

FROM 0.25000ml of E3754 + 0.75000ml of PP23459 = Final Quantity: 1.000 ml

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>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP23467	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of P9004 + 1.00000ml of P12707 + 48.50000ml of E3754 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1854	1000 PPB HERB MIX ICV STD	PP23468	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of E3754 + 0.50000ml of PP23467 = Final Quantity: 1.000 ml

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	PP23469	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.25000ml of E3754 + 0.75000ml of PP23468 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP23907	10/21/2024	04/04/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/22/2024

FROM 1.25000ml of P13498 + 1.25000ml of P13499 + 1.25000ml of P13500 + 1.25000ml of P13501 + 195.00000ml of E3815 = Final Quantity: 200.000 ml

Pest/Pcb STANDARD PREPARATION LOG

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9244-03 / Ether, Anhydrous, Purified (cs/4x4L)	0000288039	01/17/2025	08/01/2022 / Rajesh	07/13/2022 / Rajesh	E3370

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	12/04/2024	06/04/2024 / Rajesh	05/31/2024 / Rajesh	E3754

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3793

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G2362009	03/17/2025	09/17/2024 / Rajesh	09/03/2024 / Rajesh	E3794

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22F0762009	05/09/2027	11/04/2024 / Eman	09/29/2024 / Janvi	M6111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	12/17/2024	06/17/2024 / Abdul	11/01/2021 / Abdul	P11179

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32062 / Herbicide Mix, 500/8000, Standard #4 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0155055	12/17/2024	06/17/2024 / Abdul	07/03/2023 / Abdul	P12618

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	A0199693	12/17/2024	06/17/2024 / Abdul	07/14/2023 / Ankita	P12661

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	12/17/2024	06/17/2024 / Abdul	08/09/2023 / Abdul	P12707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	12/17/2024	06/17/2024 / Abdul	08/09/2023 / Abdul	P12707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	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

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	P12785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13499

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13500

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13501

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/03/2024 / Abdul	P13517

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	09/03/2024 / Abdul	P13517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0148063	12/17/2024	06/17/2024 / Abdul	08/16/2019 / Stephen	P8828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32059 / Herbicide Mix#3 (Methyl Ester), 20000 ug/ml	A0152499	12/17/2024	06/17/2024 / Abdul	08/16/2019 / Stephen	P8901

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0152705	12/17/2024	06/17/2024 / Abdul	10/11/2019 / Stephen	P9004

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

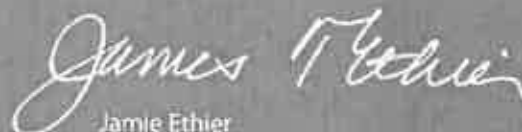
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

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

E 2865


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Ether, Anhydrous
BAKER ANALYZED® A.C.S. Reagent
Contains BHT as a Preservative
Suitable for Fat Extraction



Material No.: 9244-03
Batch No.: 0000288039
Manufactured Date: 2021/07/22
Expiration Date: 2023/07/22
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

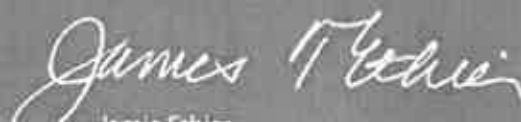
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titration Acid (μeq/g)	<= 0.2	< 0.2
Water (by KF, coulometric)	<= 0.01 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Recd. by RP on 7/13/22

E 3370


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

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

Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

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

Recd. by R1 on 5/31/24

E3754



Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
CMOS

avantor™



Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.5	0.1
Water (H ₂ O)	≤ 0.5 %	0.1 %
Solubility in H ₂ O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities – Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities – Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities – Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities – Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

Test	Specification	Result
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	7.9 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	8 par/ml
Particle Count – 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>

Acetone
CMOS



Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
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For Microelectronic Use
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales
Sr. Manager, Quality Assurance

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



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

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3815


Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

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

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantor™



Material No.: 9673-33

Batch No.: 0000250349

Manufactured Date: 2019/12/17

Retest Date: 2024/12/15

Revision No: 1

MS037-38-39-40
no

Certificate of Analysis

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

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

For Laboratory, Research or Manufacturing Use

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

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Receive date
9/29/24
Met diag.

avantor™



Material No.: 9530-33
Batch No.: 22F0762009
Manufactured Date: 2022-05-10
Retest Date: 2027-05-09
Revision No.: 0

M6109
M6110
M6111

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	0.8 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	14.9 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
 BAKER INSTRA-ANALYZED® Reagent
 For Trace Metal Analysis



Material No.: 9530-33
 Batch No.: 22F0762009

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	1.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	0.7 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**

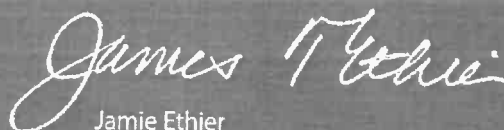


Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result
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For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

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



Jamie Ethier
Vice President Global Quality

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

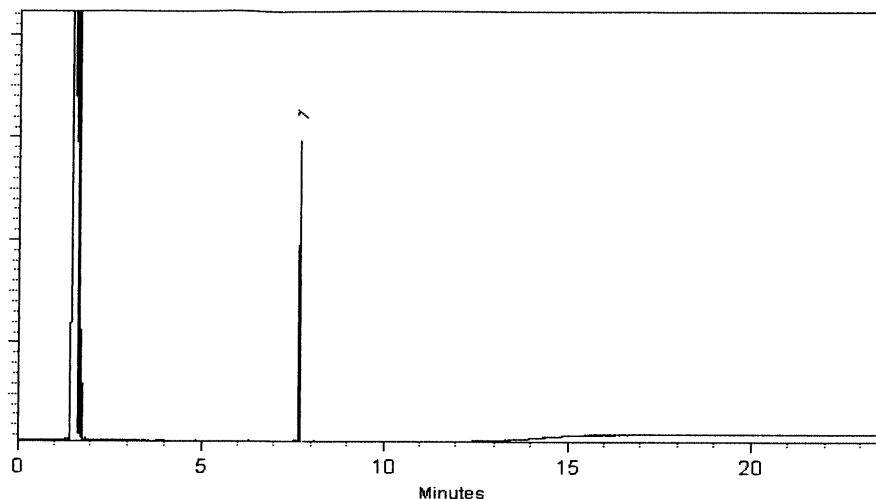
250°C

Det. Temp:

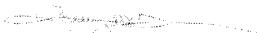
330°C

Det. Type:

FID



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


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1911177
70
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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
—
AR
01/02/21



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32062 **Lot No.:** A0155055

Description : Herbicide Mix #4/ME (Methyl Ester)
Herbicide Mix #4/ME (Methyl Ester) 200µg/mL,
Hexane/Methyl-tert-butyl-ether, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 10°C or colder

P12616 / (5)
↓
P12620
✓ *Paul* = 7/5/2023

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	3,5-Dichlorobenzoic acid methyl ester	200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 2905-67-1 (Lot 3903900)		+/-	6.7507	µg/mL	Unstressed
	Purity 99%		+/-	6.7507	µg/mL	Stressed
2	4-Nitroanisole	200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 100-17-4 (Lot 24765/7)		+/-	6.7507	µg/mL	Unstressed
	Purity 99%		+/-	6.7507	µg/mL	Stressed
3	Pentachloroanisole	200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1825-21-4 (Lot 7921100)		+/-	6.7507	µg/mL	Unstressed
	Purity 99%		+/-	6.7507	µg/mL	Stressed
4	Chloramben methyl ester	199.9 µg/mL	+/-	1.4176	µg/mL	Gravimetric
	CAS # 7286-84-2 (Lot 6487100)		+/-	6.7480	µg/mL	Unstressed
	Purity 98%		+/-	6.7480	µg/mL	Stressed
5	Bentazon methyl ester	200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 61592-45-8 (Lot 817100)		+/-	6.7507	µg/mL	Unstressed
	Purity 99%		+/-	6.7507	µg/mL	Stressed
6	Picloram methyl ester	201.9 µg/mL	+/-	1.4315	µg/mL	Gravimetric
	CAS # 14143-55-6 (Lot 386-21B)		+/-	6.8141	µg/mL	Unstressed
	Purity 98%		+/-	6.8141	µg/mL	Stressed
7	DCPA methyl ester (Chlorthal-dimethyl)	200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1861-32-1 (Lot 8008700)		+/-	6.7507	µg/mL	Unstressed
	Purity 99%		+/-	6.7507	µg/mL	Stressed

8	Acifluorfen methyl ester	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 50594-67-7 (Lot 6282300)		+/- 6.7507	µg/mL	Unstressed
	Purity 99%		+/- 6.7507	µg/mL	Stressed

Solvent: Hexane/Methyl-tert-butyl-ether
CAS # 110-54-3/1634-04-4
Purity 99%

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

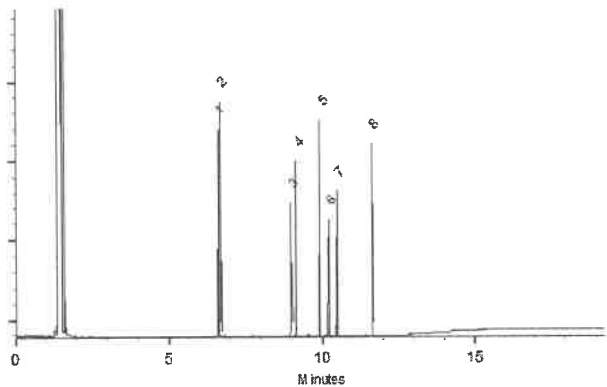
Carrier Gas:
 hydrogen-constant pressure 10 psi.

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

Inj. Temp:
 250°C

Det. Temp:
 330°C

Det. Type:
 FID



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

Michael Maje
Justine Albertson
 Justine Albertson - Operations Tech-ARM QC

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Date Passed: 18-Nov-2019

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32055 **Lot No.:** A0199693

Description : Herbicide Mix #1/ME (Methyl Ester)
Herbicide Mix #1/ME (Methyl Ester) 200 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dicamba methyl ester	6597-78-0	1813500	99%	202.0 µg/mL	+/- 3.4272
2	Dichlorprop methyl ester	57153-17-0	8578700	98%	201.9 µg/mL	+/- 3.4251
3	2,4-D methyl ester	1928-38-7	10048000	99%	202.0 µg/mL	+/- 3.4272
4	2,4,5-TP (silvex) methyl ester	4841-20-7	504400	99%	202.0 µg/mL	+/- 3.4272
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	201.9 µg/mL	+/- 3.4251
6	Dinoseb methyl ether	6099-79-2	9239100	99%	202.0 µg/mL	+/- 3.4272
7	2,4-DB methyl ester	18625-12-2	6847200	99%	202.0 µg/mL	+/- 3.4272

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

P12660
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P12664

AJ
07/11/23

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

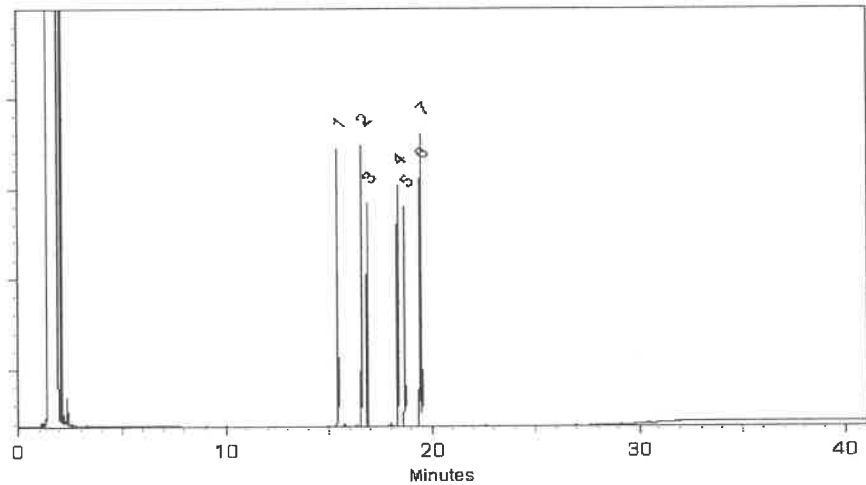
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Nick Yaw
Nick Yaw - Operations Tech I

Christie Mills
Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 07-Jul-2023 Balance Serial # 1128360905

Date Passed: 11-Jul-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P12706
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P12715
/ (10)
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/ 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.

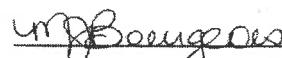
Expiration of Certification:

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

P12766
↓
P12785
✓
9.11.23

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.1 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.1 ±	0.5 µg/mL	025057-89-0	RM20289
chloramben	100.4 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.1 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM21030
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.3 ±	0.5 µg/mL	002136-79-0	RM13887
dicamba	100.2 ±	0.5 µg/mL	001918-00-9	RM20089
3,5-dichlorobenzoic acid	100.0 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.0 ±	0.5 µg/mL	000120-36-5	RM20896
dinoseb	100.0 ±	0.5 µg/mL	000088-85-7	RM20667
MCPA	100.4 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	100.37 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.1 ±	0.5 µg/mL	000100-02-7	RM03752
pentachlorophenol	100.1 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.1 ±	0.5 µg/mL	000093-72-1	RM20208
2,4,5-T	100.4 ±	0.5 µg/mL	000093-76-5	NT01808

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative

P12766 / (20)
↓
P12785 /
✓
9/11/2023

P12766
 ↓
 P12785
 9.11.23
 (20)

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.1 ± 0.5 µg/mL	050594-66-6	NT02057	
bentazon	100.1 ± 0.5 µg/mL	025057-89-0	RM20289	
chloramben	100.4 ± 0.5 µg/mL	000133-90-4	RM02698	
2,4-D	100.1 ± 0.5 µg/mL	000094-75-7	RM17172	
dalapon	100.4 ± 0.5 µg/mL	000075-99-0	RM21030	
2,4-DB	100.1 ± 0.5 µg/mL	000094-82-6	RM02866	
tetrachloroterephthalic acid	100.3 ± 0.5 µg/mL	002136-79-0	RM13887	
dicamba	100.2 ± 0.5 µg/mL	001918-00-9	RM20089	
3,5-dichlorobenzoic acid	100.0 ± 0.5 µg/mL	000051-36-5	RM02768	
dichlorprop	100.0 ± 0.5 µg/mL	000120-36-5	RM20896	
dinoseb	100.0 ± 0.5 µg/mL	000088-85-7	RM20667	
MCPA	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 / 1

9/11/2023



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676

Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2027 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/26

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:
1.0 ml/min.

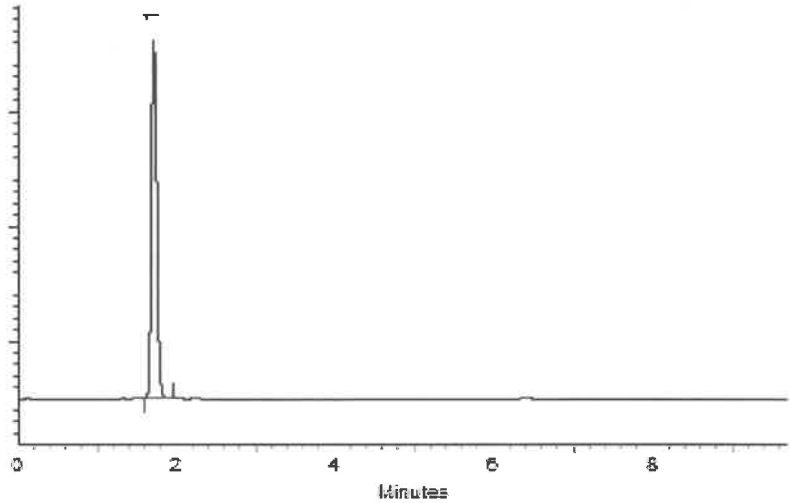
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

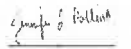


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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 } 08/15/26

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:
1.0 ml/min.

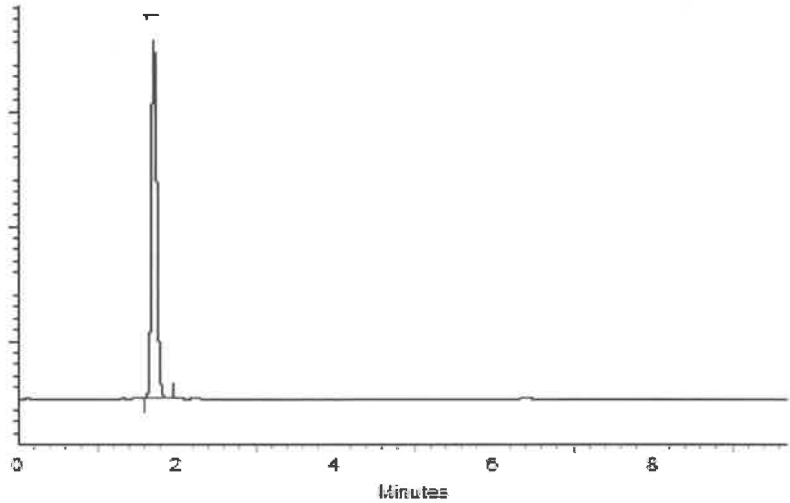
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

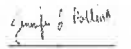


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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 } 08/15/26

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:
1.0 ml/min.

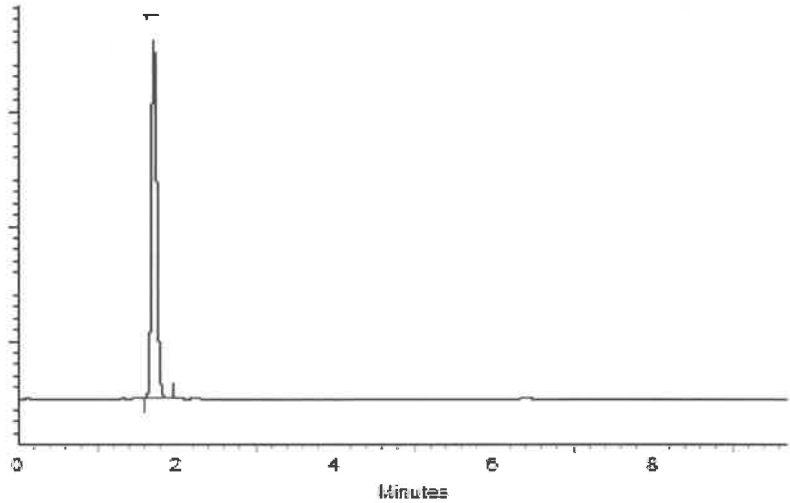
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

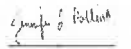


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Ethan Winiarski - Operations Tech I

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:

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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:

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Handling Notes:

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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 } 08/15/26

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:
1.0 ml/min.

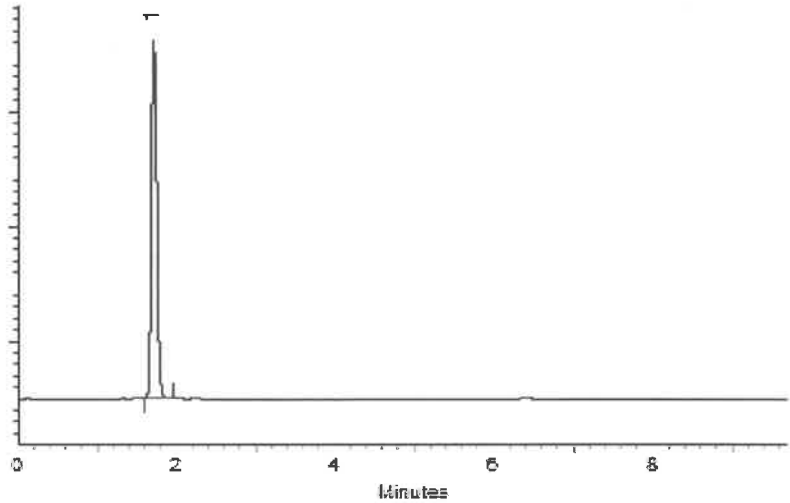
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

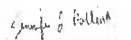


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Ethan Winiarski - Operations Tech I

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:

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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:

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Handling Notes:

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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



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. : 32254 **Lot No.:** A0148063
Description : Dalapon methyl ester Standard
Dalapon methyl ester 1000µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive.

Received by
SG on 8/16/19
P8828
P8826

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dalapon methyl ester	999.6 µg/mL	+/- 10.0697 µg/mL Gravimetric
	CAS # 17640-02-7 (Lot 1764600)		+/- 34.4896 µg/mL Unstressed
	Purity 98%		+/- 34.4896 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

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

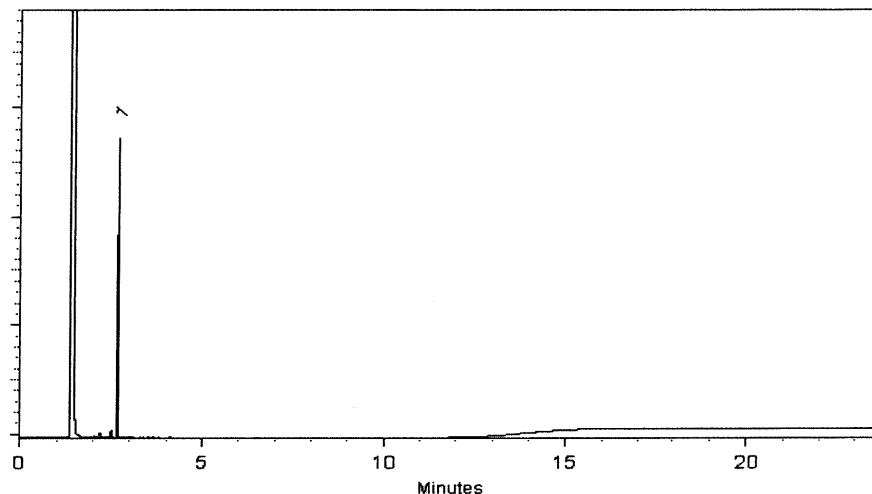
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

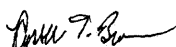
Inj. Temp:
250°C

Det. Temp:
330°C

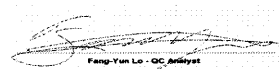
Det. Type:
FID



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


Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2019 **Balance:** 1127510105


Feng-Yin Lo - QC Analyst

Date Passed: 15-Apr-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED REFERENCE MATERIAL

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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.

Received by
SG on 9/10/19
P8892
P8896

Catalog No. : 32059 **Lot No.:** A0152499
Description : Herbicide Mix #3/ME (Methyl Ester)
Herbicide Mix #3/ME (Methyl Ester) 20,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : September 30, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	MCPP (Mecoprop) methyl ester CAS # 23844-56-6 (Lot 8685200) Purity 99%	20,004.0 µg/mL	+/- 185.1208 µg/mL Gravimetric +/- 685.5986 µg/mL Unstressed +/- 685.5986 µg/mL Stressed
2	MCPA methyl ester CAS # 2436-73-9 (Lot 7964600) Purity 99%	20,012.0 µg/mL	+/- 185.1948 µg/mL Gravimetric +/- 685.8728 µg/mL Unstressed +/- 685.8728 µg/mL Stressed

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

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

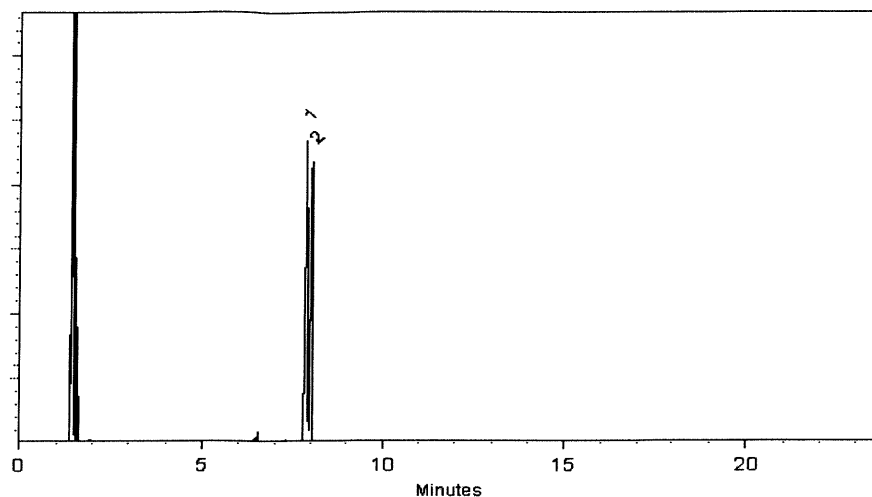
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 03-Sep-2019

Balance: 1128360905

Jennifer L Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 05-Sep-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED REFERENCE MATERIAL

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www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 Lot No.: A0152705
Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard
515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : June 30, 2026 Storage: 10°C or colder
Handling: This product is photosensitive.

Received by
SG on 10/11/19
P8999
P9008

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.7507 µg/mL Unstressed
	Purity 99%		+/- 6.7507 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

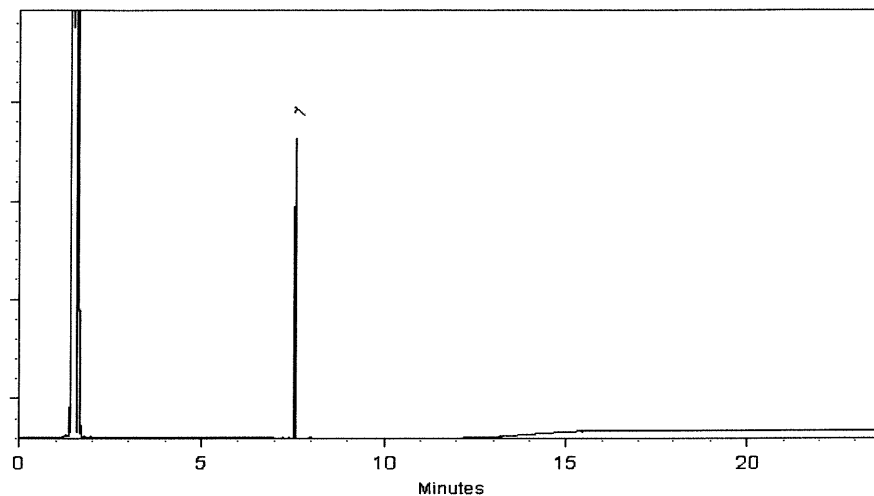
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 09-Sep-2019

Balance: B707717271

Fang-Yun Lo
Fang-Yun Lo - QC Analyst

Date Passed: 11-Sep-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW1024	7098-04
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium ✓	HW1024	7098-05D
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW1024	7098-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH ✓	HW1024	7098-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW1024	7098-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions ✓	HW1024	7098-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients ✓	HW1024	7098-09B
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW1024	7098-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW1024	7098-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW1024	7098-96
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW1024	7098-100
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease ✓	HW1024	7098-94
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW1024	7098-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW1024	7098-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW1024	7098-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW1024	7098-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW1024	7098-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW1024	7098-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW1024	7098-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW1024	7098-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW1024	7098-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW1024	7098-106

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240903-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL ✓✓	HW1024	7098-105

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