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

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : NJ WASTE WATER PT

CHEMTECH CONSULTING GROUP

284 Sheffield St,

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : P3845

ATTENTION : QA Officer

Laboratory Certification ID # 20012

Alliance TECHNICAL GROUP

Table Of Contents for P3845

1) HERBICIDE GROUP1 Data 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 12

9) QC Data Summary For Herbicide group1 13

- 9.1) Deuterated Monitoring Compound Summary 14
- 9.2) LCS/LCSD Summary 15
- 9.3) Method Blank Summary 17

10) Sample Data 18

- 10.1) PT-HERB-WP 19

11) Calibration Data Summary 30

- 11.1) Initial Calibration Data 31
  - 11.1.1) PS090324 31
  - 11.1.2) PS091224 95
- 11.2) Continued Calibration Data 159
  - 11.2.1) PS027618.D 159
  - 11.2.2) PS027630.D 173
  - 11.2.3) PS027660.D 187
  - 11.2.4) PS027663.D 201
- 11.3) Analytical Seq 215

12) QC Sample Data 217

- 12.1) Method Blank Data 218
- 12.2) PIBLK Data 223
- 12.3) LCS Data 253
- 12.4) LCSD Data 265

13) Manual Integration 277

14) Analytical Runlogs 281

15) Extraction Logs 291

- 15.1) PB163250.pdf 291
- 15.2) PB163250IC.pdf 293

16) Standard Prep Logs 294

17) Shipping Document 340
17.1) Chain Of Custody 341
17.2) Lab Certificate 343

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

Cover Page

Order ID : P3845

Project ID : NJ Waste Water PT

Client : Chemtech Consulting Group

Lab Sample Number	Client Sample Number
P3845-01	PT-VOA-WP
P3845-02	PT-VOA-WP
P3845-03	PT-BN-WP
P3845-04	PT-BN-WP
P3845-05	PT-BN-WP
P3845-06	PT-ACIDS-WP
P3845-07	PT-ACIDS-WP
P3845-08	PT-ACIDS-WP
P3845-09	PT-PEST-WP
P3845-10	PT-PEST-WP
P3845-11	PT-CHLR-WP
P3845-12	PT-CHLR-WP
P3845-13	PT-TXP-WP
P3845-14	PT-TXP-WP
P3845-15	PT-PCBW-WP
P3845-16	PT-PCBW-WP
P3845-17	PT-HERB-WP
P3845-18	RR-GAS-WP
P3845-19	RR-DIES-WP
P3845-20	RR-8011-WP
P3845-21	RR-PAH-WP
P3845-22	RR-TRIAZINE-WP

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: 10/21/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Chemtech Consulting Group
Project Name: NJ Waste Water PT
Project # N/A
Chemtech Project # P3845
Test Name: Herbicide group1

A. Number of Samples and Date of Receipt:
22 Water samples were received on 09/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide group1, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, SVOCMS Group6, VOCGC Group 1 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 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of Herbicide group1s was based on method 8151A and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:

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

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

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_____

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

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 is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P3845 MATRIX: Water

METHOD: 8151A/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified.			✓
2.	Standard Summary Submitted.			✓
3.	Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements . The Continuous Calibration met the requirements			✓
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . The RPD met criteria .			✓
7.	Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓
9.	Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓

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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

_____ _____

QA REVIEW Date

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3845

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 10/21/2024

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

LAB CHRONICLE

OrderID:	P3845	**OrderDate:**	9/5/2024 2:19:00 PM
Client:	Chemtech Consulting Group	**Project:**	NJ Waste Water PT
Contact:	QA Officer	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3845-17	**PT-HERB-WP**	**WATER**			**09/03/24**			**09/05/24**
			Herbicide group1	8151A		09/10/24	09/13/24	
P3845-18	**RR-GAS-WP**	**Water**			**09/03/24**			**09/05/24**
			Gasoline Range Organics	8015D			09/09/24	
			Gasoline Range Organics	8015D			09/11/24	
P3845-18RE	**RR-GAS-WP**	**Water**			**09/03/24**			**09/05/24**
			Gasoline Range Organics	8015D			09/09/24	
			Gasoline Range Organics	8015D			09/11/24	
P3845-19	**RR-DIES-WP**	**Water**			**09/03/24**			**09/05/24**
			Diesel Range Organics	8015D		09/09/24	09/10/24	
P3845-20	**RR-8011-WP**	**WATER**			**09/03/24**			**09/05/24**
			VOCGC Group 1	8011		09/11/24	09/11/24	
P3845-20DL	**RR-8011-WPDL**	**WATER**			**09/03/24**			**09/05/24**
			VOCGC Group 1	8011		09/11/24	09/11/24	

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

Hit Summary Sheet
SW-846

SDG No.: P3845 **Order ID:** P3845

Client: Chemtech Consulting Group **Project ID:** NJ Waste Water PT

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : PT-HERB-WP								
P3845-17	PT-HERB-WP	WATER	DICAMBA	4.50		0.42	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	DALAPON	6.20		1.10	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	DICHLORPROP	7.10		0.43	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	2,4-D	8.50		0.49	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	2,4,5-TP (Silvex)	4.00		0.45	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	2,4,5-T	4.40		0.50	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	2,4-DB	6.70		0.57	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	DINOSEB	5.30		0.55	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	Pentachlorophenol	6.70		0.50	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	4-Nitrophenol	3.80		0.53	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	PICLORAM	6.70		0.50	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	DCPA	7.80		0.54	2.00	ug/L
P3845-17	PT-HERB-WP	WATER	3,5-DICHLOROBENZOIC A(	7.30		0.48	2.00	ug/L
			Total Concentration:	**79.000**				

QC SUMMARY

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

Surrogate Summary

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS027580.D	PIBLK-PS027580.D	2,4-DCAA	1	500	486	97		39	175
		2,4-DCAA	2	500	503	101		39	175
I.BLK-PS027617.D	PIBLK-PS027617.D	2,4-DCAA	1	500	504	101		39	175
		2,4-DCAA	2	500	537	107		39	175
PB163250BL	PB163250BL	2,4-DCAA	1	500	562	112		39	175
		2,4-DCAA	2	500	533	107		39	175
PB163250BS	PB163250BS	2,4-DCAA	1	500	517	103		39	175
		2,4-DCAA	2	500	522	104		39	175
PB163250BSD	PB163250BSD	2,4-DCAA	1	500	530	106		39	175
		2,4-DCAA	2	500	538	108		39	175
I.BLK-PS027629.D	PIBLK-PS027629.D	2,4-DCAA	1	500	510	102		39	175
		2,4-DCAA	2	500	534	107		39	175
I.BLK-PS027652.D	PIBLK-PS027652.D	2,4-DCAA	1	500	496	99		39	175
		2,4-DCAA	2	500	524	105		39	175
I.BLK-PS027659.D	PIBLK-PS027659.D	2,4-DCAA	1	500	493	99		39	175
		2,4-DCAA	2	500	513	103		39	175
P3845-17	PT-HERB-WP	2,4-DCAA	1	500	520	104		39	175
		2,4-DCAA	2	500	505	101		39	175
I.BLK-PS027662.D	PIBLK-PS027662.D	2,4-DCAA	1	500	495	99		39	175
		2,4-DCAA	2	500	510	102		39	175

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8151A **Datafile :** PS027620.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB163250BS	DICAMBA	5	4.90	ug/L	98				67	136	
	MCPP	0.5	0.47	ug/L	93				70	130	
	Dalapon	5	4.90	ug/L	98				70	130	
	MCPA	0.5	0.45	ug/L	91				70	130	
	DICHLORPROP	5	4.90	ug/L	98				88	119	
	2,4-D	5	4.90	ug/L	98				83	130	
	2,4,5-TP(Silvex)	5	5.00	ug/L	100				78	127	
	2,4,5-T	5	5.00	ug/L	100				74	129	
	2,4-DB	5	5.00	ug/L	100				53	149	
	Dinoseb	5	5.40	ug/L	108				72	131	
	Pentachlorophenol	5	5.10	ug/L	102				70	130	
	4-Nitrophenol	5	4.80	ug/L	96				70	130	
	PICLORAM	5	4.70	ug/L	94				70	130	
	DCPA	5	5.10	ug/L	102				70	130	
	3,5-DICHLOROBENZOIC	5	4.80	ug/L	96				70	130	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8151A **Datafile :** PS027621.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB163250BSD	DICAMBA	5	5.00	ug/L	100	2			67	136	20
	MCPP	0.5	0.49	ug/L	97	4			70	130	20
	Dalapon	5	4.90	ug/L	98	0			70	130	20
	MCPA	0.5	0.48	ug/L	96	5			70	130	20
	DICHLORPROP	5	5.10	ug/L	102	4			88	119	20
	2,4-D	5	5.00	ug/L	100	2			83	130	20
	2,4,5-TP(Silvex)	5	5.20	ug/L	104	4			78	127	20
	2,4,5-T	5	5.20	ug/L	104	4			74	129	20
	2,4-DB	5	5.00	ug/L	100	0			53	149	20
	Dinoseb	5	5.50	ug/L	110	2			72	131	20
	Pentachlorophenol	5	5.30	ug/L	106	4			70	130	20
	4-Nitrophenol	5	4.90	ug/L	98	2			70	130	20
	PICLORAM	5	4.80	ug/L	96	2			70	130	20
	DCPA	5	5.30	ug/L	106	4			70	130	20
	3,5-DICHLOROBENZOIC	5	5.00	ug/L	100	4			70	130	20

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

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163250BL

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab Sample ID: PB163250BL Lab File ID: PS027619.D

Matrix: (soil/water) WATER Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 09/10/2024

Date Analyzed (1): 09/10/2024 Date Analyzed (2): 09/10/2024

Time Analyzed (1): 17:34 Time Analyzed (2): 17:34

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
PB163250BS	PB163250BS	PS027620.D	09/10/2024	09/10/2024
PB163250BSD	PB163250BSD	PS027621.D	09/10/2024	09/10/2024
PT-HERB-WP	P3845-17	PS027661.D	09/13/2024	09/13/2024

COMMENTS:

SAMPLE DATA

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-HERB-WP	SDG No.:	P3845
Lab Sample ID:	P3845-17	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
PS027661.D	1	09/10/24 08:55	09/13/24 00:35	PB163250

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	4.50		0.42	2.00	ug/L
75-99-0	DALAPON	6.20		1.10	2.00	ug/L
94-74-6	MCPA	0.052	U	0.052	0.20	ug/L
120-36-5	DICHLORPROP	7.10		0.43	2.00	ug/L
94-75-7	2,4-D	8.50		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	4.00		0.45	2.00	ug/L
93-76-5	2,4,5-T	4.40		0.50	2.00	ug/L
94-82-6	2,4-DB	6.70		0.57	2.00	ug/L
88-85-7	DINOSEB	5.30		0.55	2.00	ug/L
87-86-5	Pentachlorophenol	6.70		0.50	2.00	ug/L
100-02-7	4-Nitrophenol	3.80		0.53	2.00	ug/L
1918-02-1	PICLORAM	6.70		0.50	2.00	ug/L
1861-32-1	DCPA	7.80		0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	7.30		0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	520		39 - 175	104%	SPK: 500

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-HERB-WP	SDG No.:	P3845
Lab Sample ID:	P3845-17	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
PS027661.D	1	09/10/24 08:55	09/13/24 00:35	PB163250

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\PS091224\
Data File : PS027661.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Sep 2024 00:35
Operator : AR\AJ
Sample : P3845-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PT-HERB-WP

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:43:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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	7.110	7.633	1293.3E6	500.9E6	519.885	505.438
		Target Compounds						
1)	T	Dalapon	2.555	2.628	2492.1E6	1011.2E6	601.501	619.677
2)	T	3,5-DICHL...	6.300	6.604	2499.1E6	1177.1E6	684.155	730.451
3)	T	4-Nitroph...	6.906	7.168	649.9E6	246.5E6	383.866	343.847
5)	T	DICAMBA	7.290	7.829	4539.3E6	1921.7E6	449.209	436.111
8)	T	DICHLORPROP	7.976	8.535	1883.2E6	792.5E6	710.393	709.346
9)	T	2,4-D	8.199	8.861	2604.8E6	914.5E6	849.797	820.138
10)	T	Pentachlo...	8.487	9.378	23745.0E6	11018.4E6	652.853	666.476
11)	T	2,4,5-TP ...	9.055	9.755	5869.5E6	2295.3E6	401.057	382.819
12)	T	2,4,5-T	9.340	10.171	6550.5E6	2156.3E6	437.639	412.536
13)	T	2,4-DB	9.905	10.734	1553.8E6	385.8E6	669.120	627.009
14)	T	DINOSEB	11.083	11.110	5130.2E6	2231.2E6	524.510	530.544
15)	T	Picloram	10.900	12.192	11661.8E6	3134.7E6	623.369	674.517
16)	T	DCPA	11.382	12.146	11570.8E6	5029.4E6	697.145	780.335

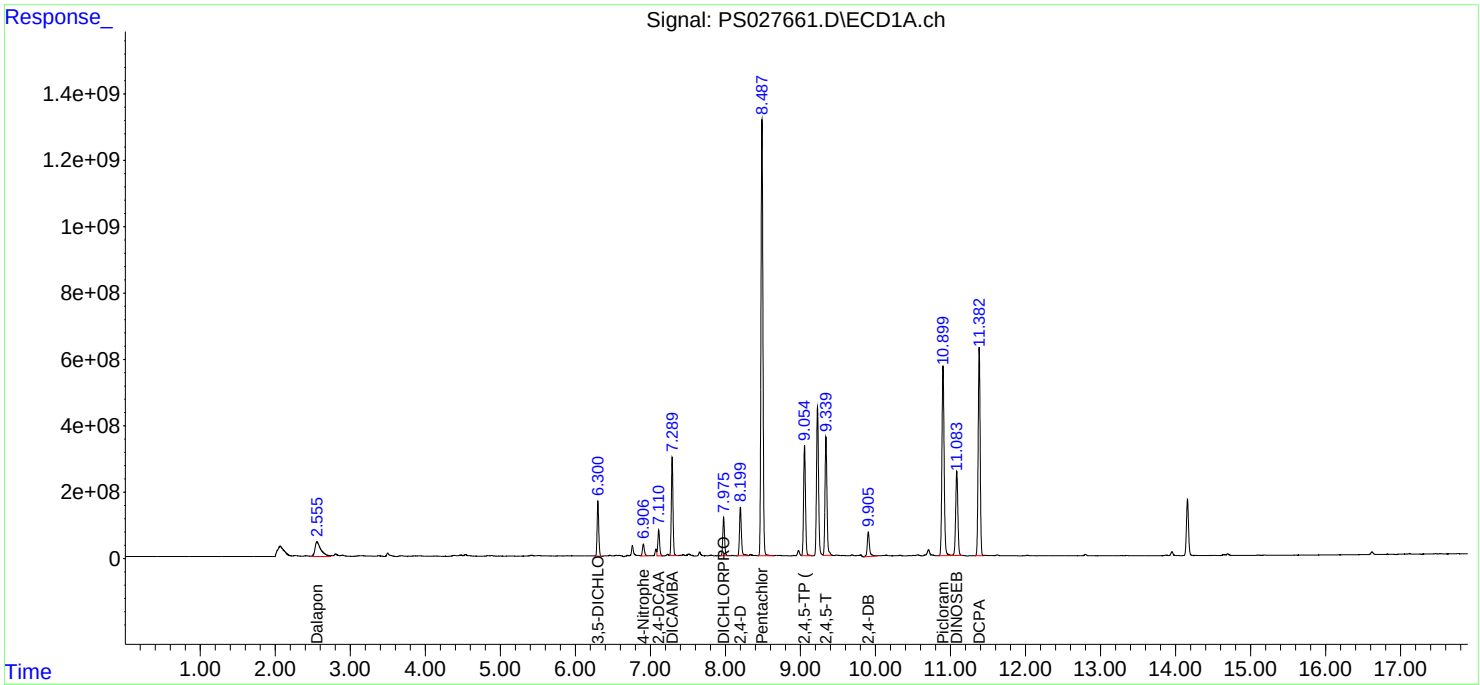
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

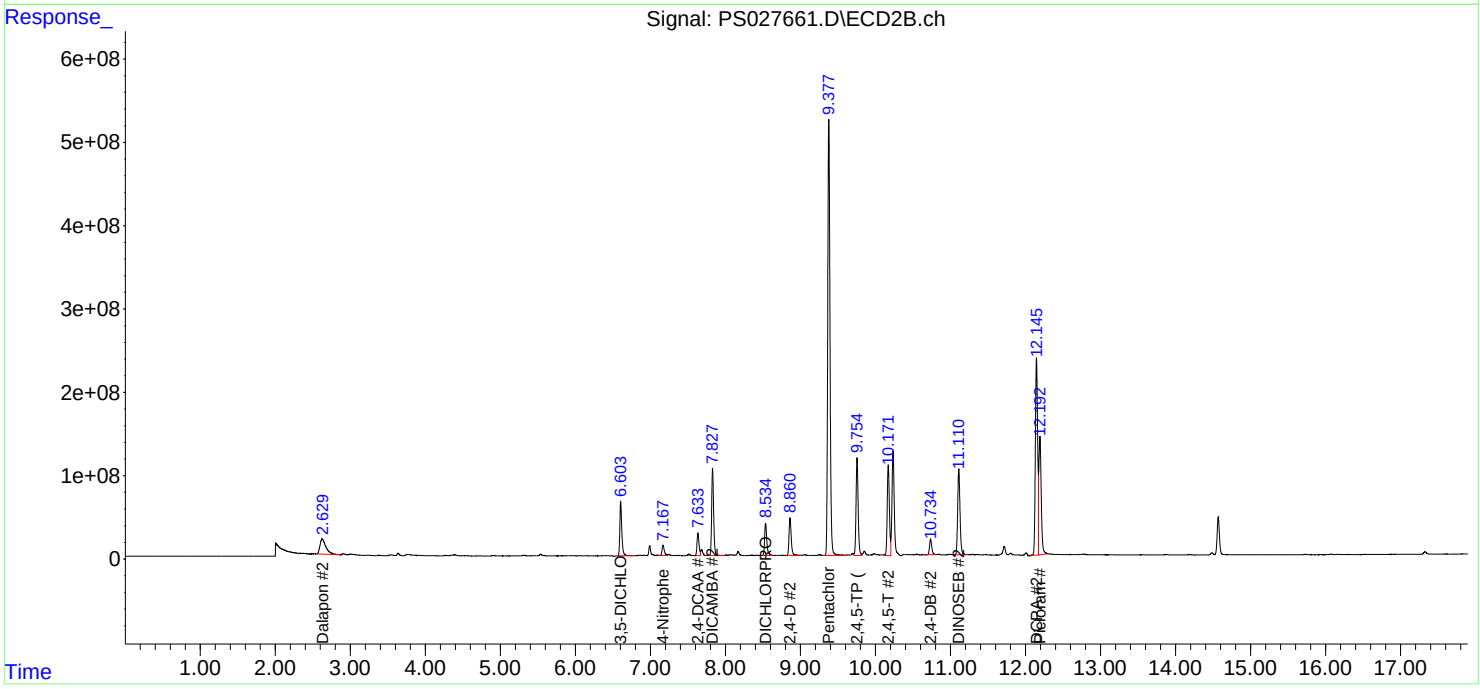
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027661.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Sep 2024 00:35
Operator : AR\AJ
Sample : P3845-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

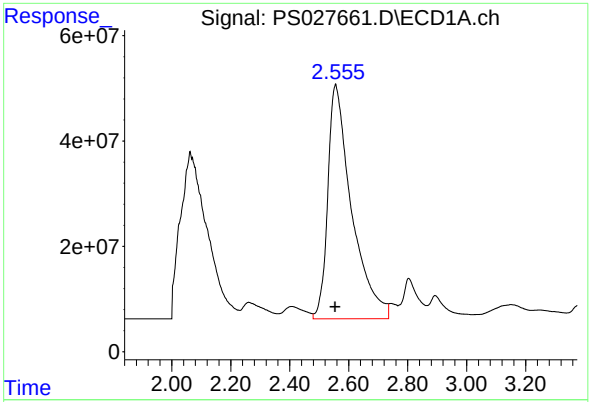
Instrument :
ECD_S
ClientSampleId :
PT-HERB-WP

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:43:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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



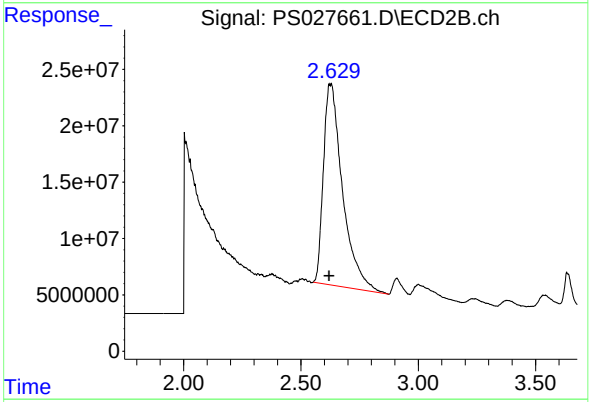




#1 Dalapon

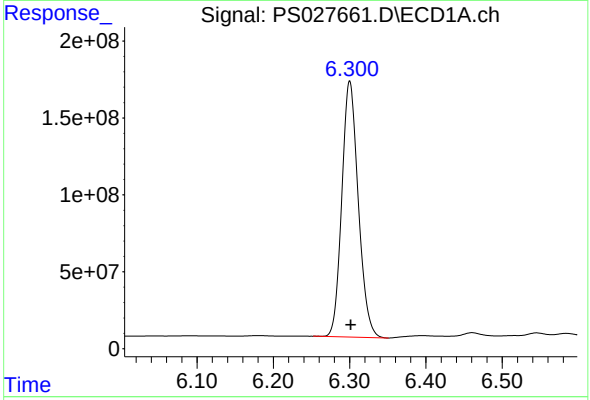
R.T.: 2.555 min
Delta R.T.: 0.001 min
Response: 2492069074
Conc: 601.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-WP



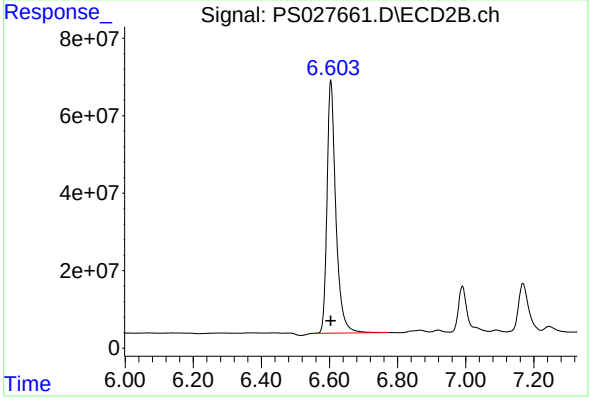
#1 Dalapon

R.T.: 2.628 min
Delta R.T.: 0.008 min
Response: 1011226394
Conc: 619.68 ng/ml



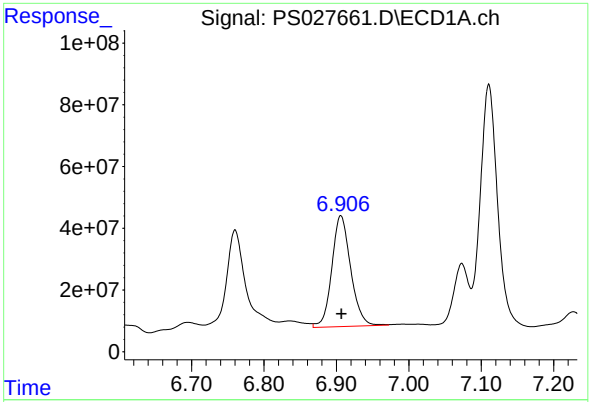
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.300 min
Delta R.T.: -0.001 min
Response: 2499121545
Conc: 684.15 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

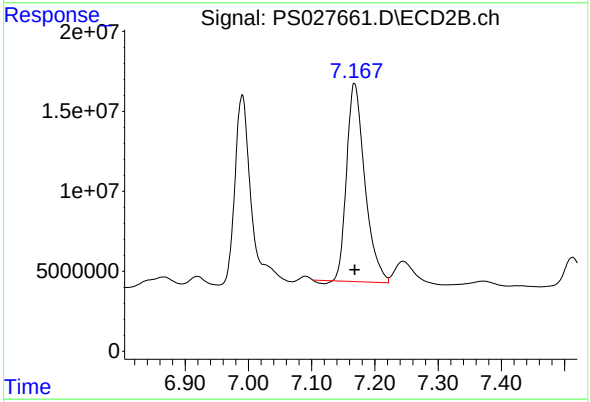
R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 1177068446
Conc: 730.45 ng/ml



#3 4-Nitrophenol

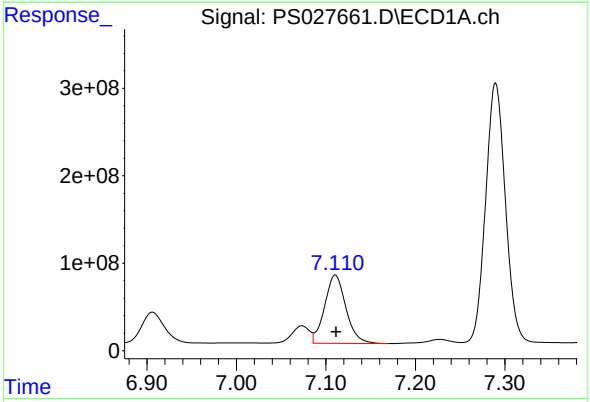
R.T.: 6.906 min
Delta R.T.: 0.000 min
Response: 649932370
Conc: 383.87 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-WP



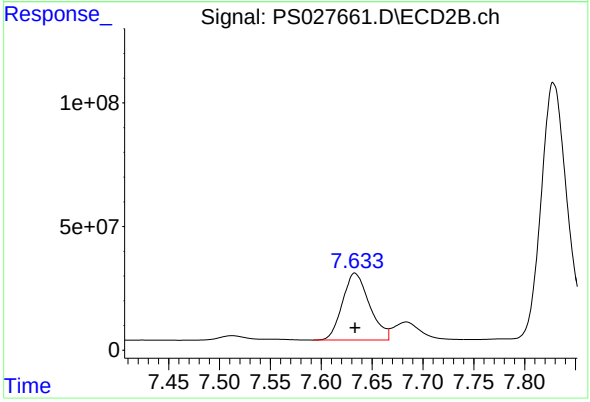
#3 4-Nitrophenol

R.T.: 7.168 min
Delta R.T.: 0.000 min
Response: 246466255
Conc: 343.85 ng/ml



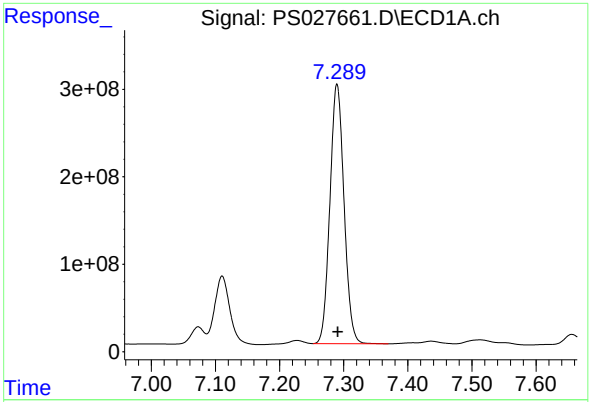
#4 2,4-DCAA

R.T.: 7.110 min
Delta R.T.: -0.001 min
Response: 1293270192
Conc: 519.89 ng/ml



#4 2,4-DCAA

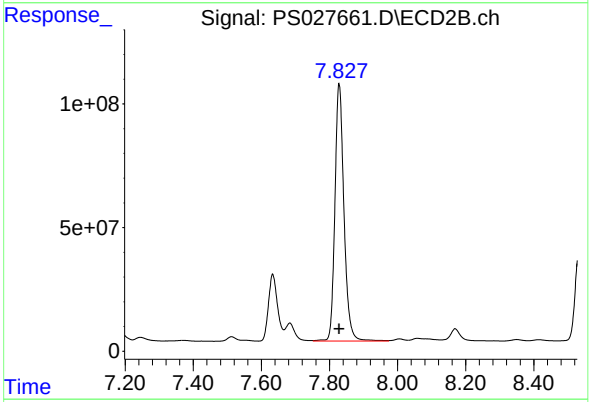
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 500905658
Conc: 505.44 ng/ml



#5 DICAMBA

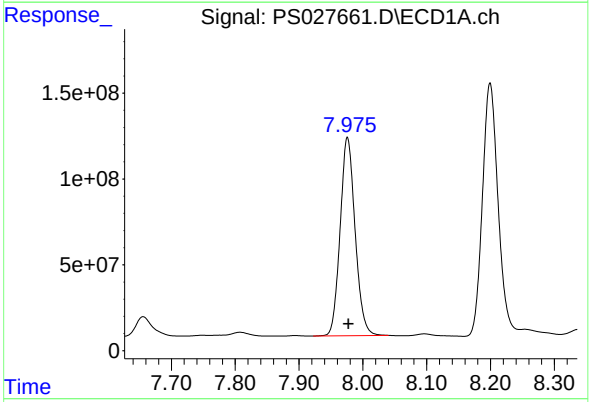
R.T.: 7.290 min
Delta R.T.: -0.001 min
Response: 4539327682
Conc: 449.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-WP



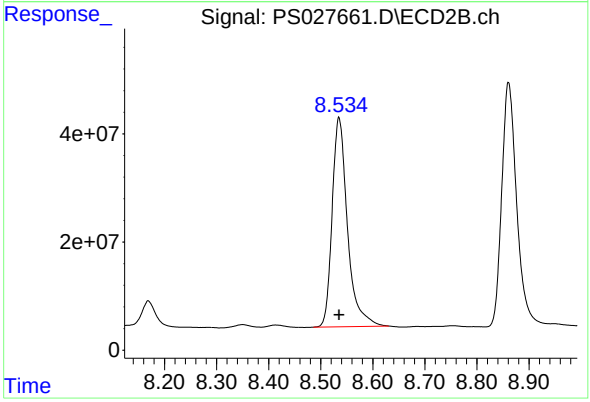
#5 DICAMBA

R.T.: 7.829 min
Delta R.T.: 0.000 min
Response: 1921667141
Conc: 436.11 ng/ml



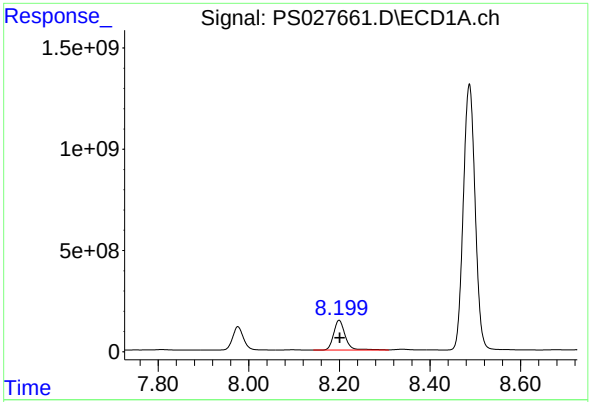
#8 DICHLORPROP

R.T.: 7.976 min
Delta R.T.: -0.002 min
Response: 1883170280
Conc: 710.39 ng/ml



#8 DICHLORPROP

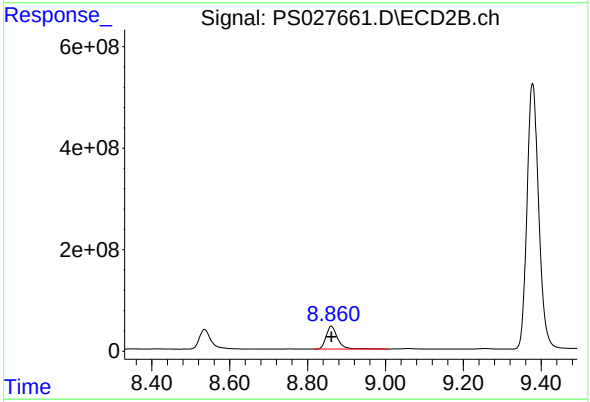
R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 792498273
Conc: 709.35 ng/ml



#9 2,4-D

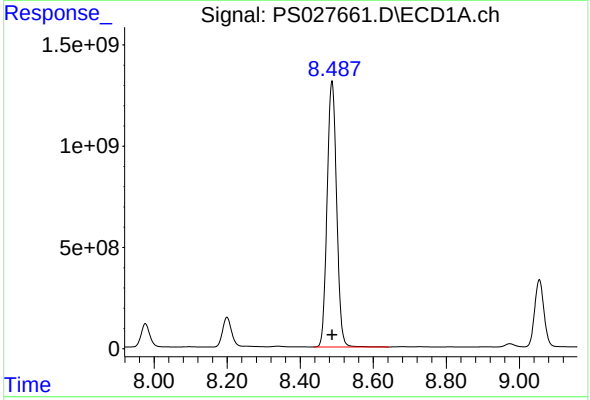
R.T.: 8.199 min
Delta R.T.: -0.002 min
Response: 2604829651
Conc: 849.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-WP



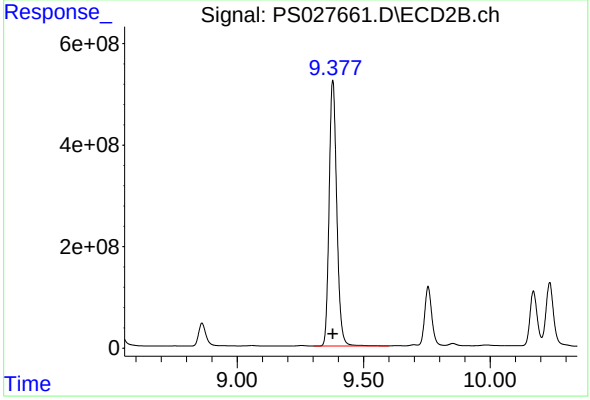
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 914467380
Conc: 820.14 ng/ml



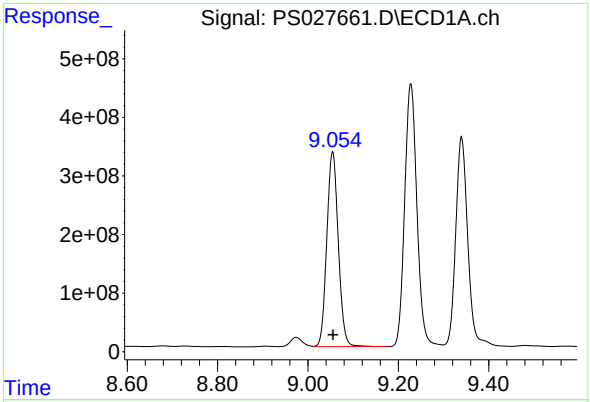
#10 Pentachlorophenol

R.T.: 8.487 min
Delta R.T.: 0.000 min
Response: 23745045534
Conc: 652.85 ng/ml



#10 Pentachlorophenol

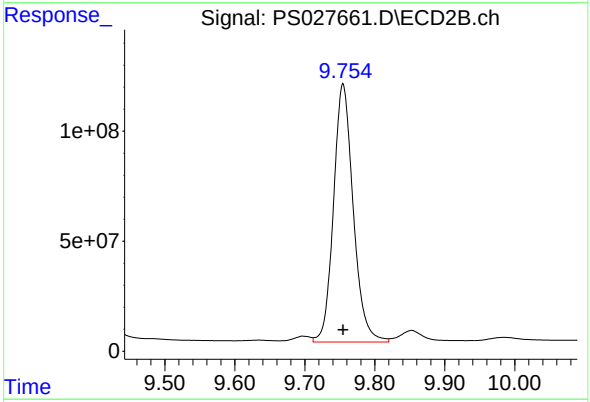
R.T.: 9.378 min
Delta R.T.: 0.000 min
Response: 11018413211
Conc: 666.48 ng/ml



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

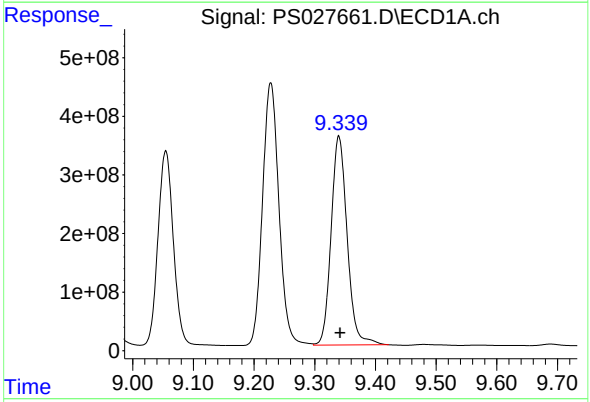
R.T.: 9.055 min
Delta R.T.: -0.001 min
Response: 5869468374
Conc: 401.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-WP



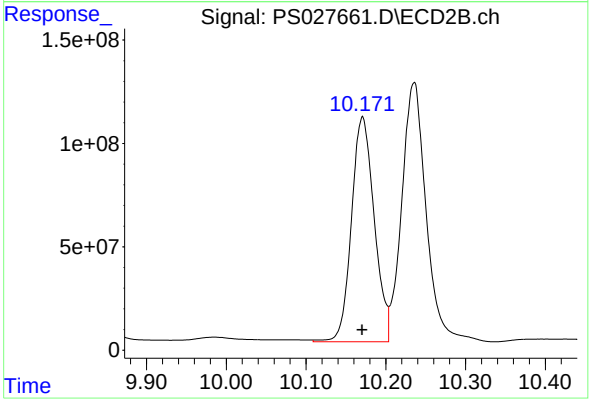
#11 2,4,5-TP (SILVEX)

R.T.: 9.755 min
Delta R.T.: 0.000 min
Response: 2295344911
Conc: 382.82 ng/ml



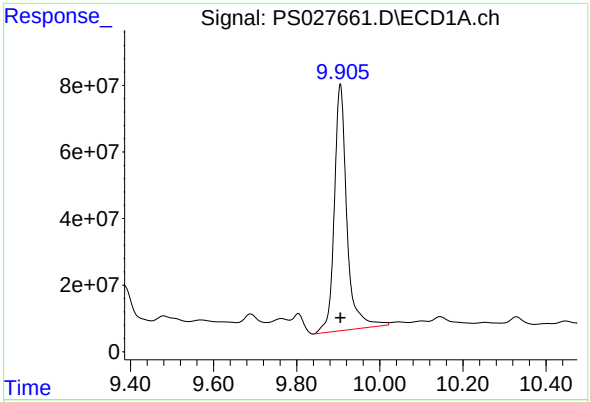
#12 2,4,5-T

R.T.: 9.340 min
Delta R.T.: -0.002 min
Response: 6550506417
Conc: 437.64 ng/ml



#12 2,4,5-T

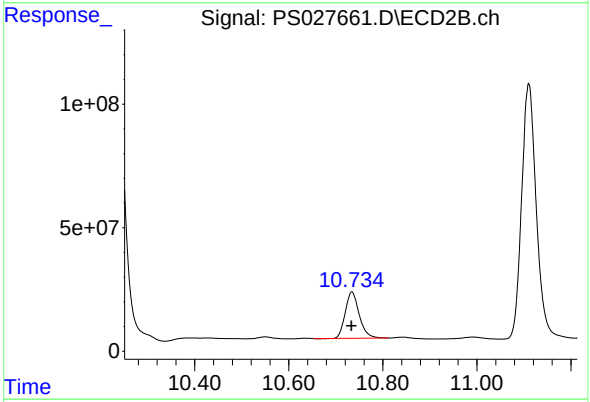
R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 2156250810
Conc: 412.54 ng/ml



#13 2,4-DB

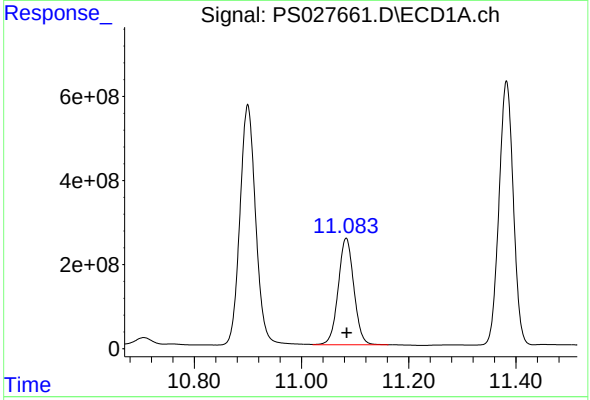
R.T.: 9.905 min
Delta R.T.: 0.000 min
Response: 1553841935
Conc: 669.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-WP



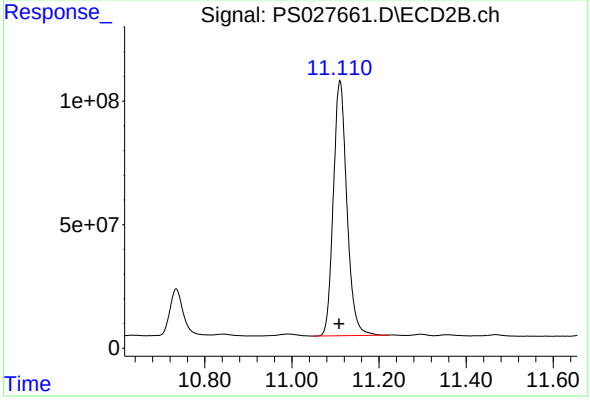
#13 2,4-DB

R.T.: 10.734 min
Delta R.T.: 0.001 min
Response: 385799724
Conc: 627.01 ng/ml



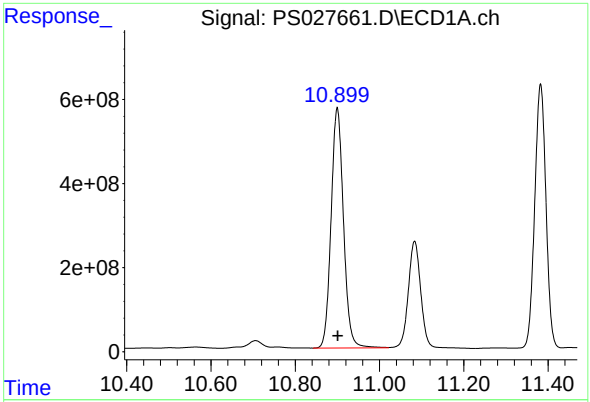
#14 DINOSEB

R.T.: 11.083 min
Delta R.T.: 0.000 min
Response: 5130165695
Conc: 524.51 ng/ml



#14 DINOSEB

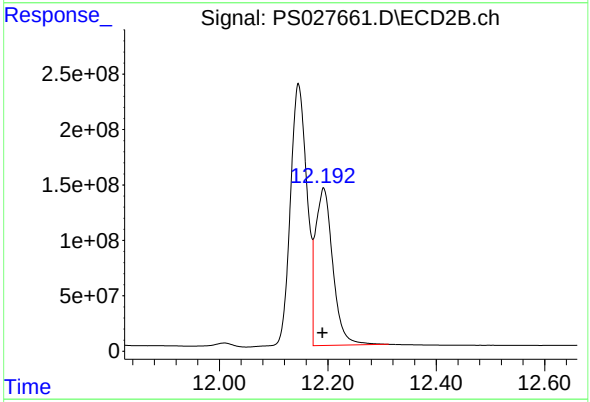
R.T.: 11.110 min
Delta R.T.: 0.002 min
Response: 2231249625
Conc: 530.54 ng/ml



#15 Picloram

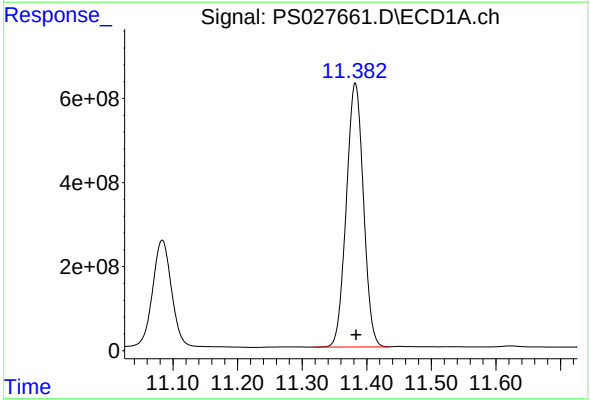
R.T.: 10.900 min
Delta R.T.: -0.001 min
Response: 11661819002
Conc: 623.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
PT-HERB-WP



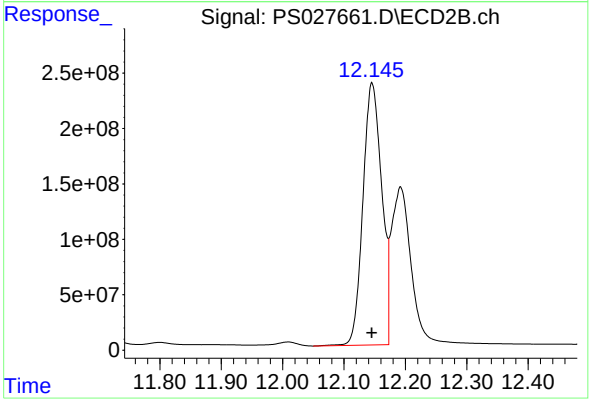
#15 Picloram

R.T.: 12.192 min
Delta R.T.: 0.002 min
Response: 3134711626
Conc: 674.52 ng/ml



#16 DCPA

R.T.: 11.382 min
Delta R.T.: -0.001 min
Response: 11570776349
Conc: 697.15 ng/ml



#16 DCPA

R.T.: 12.146 min
Delta R.T.: 0.000 min
Response: 5029350058
Conc: 780.33 ng/ml

CALIBRATION SUMMARY

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Instrument ID: ECD_S **Calibration Date(s):** 09/03/2024 09/03/2024

Calibration Times: 13:26 15:03

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

LAB FILE ID: RT 200 = PS027581.D RT 500 = PS027582.D

RT 750 = PS027583.D RT 1000 = PS027584.D RT 1500 = PS027585.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	9.39	9.39	9.39	9.39	9.39	9.39	9.29	9.49
2,4,5-TP(Silvex)	9.10	9.10	9.10	9.10	9.10	9.10	9.00	9.20
2,4-D	8.24	8.24	8.24	8.24	8.24	8.24	8.14	8.34
2,4-DB	9.96	9.96	9.96	9.95	9.95	9.95	9.85	10.05
2,4-DCAA	7.15	7.15	7.15	7.15	7.15	7.15	7.05	7.25
3,5-DICHLOROBENZOIC	6.33	6.33	6.33	6.33	6.33	6.33	6.23	6.43
4-Nitrophenol	6.95	6.95	6.95	6.94	6.95	6.95	6.85	7.05
Dalapon	2.59	2.59	2.59	2.59	2.59	2.59	2.49	2.69
DCPA	11.44	11.44	11.44	11.44	11.44	11.44	11.34	11.54
DICAMBA	7.33	7.33	7.33	7.33	7.33	7.33	7.23	7.43
DICHLORPROP	8.02	8.02	8.02	8.02	8.02	8.02	7.92	8.12
Dinoseb	11.14	11.14	11.14	11.14	11.14	11.14	11.04	11.24
MCPA	7.65	7.65	7.65	7.65	7.66	7.65	7.55	7.75
MCPP	7.50	7.51	7.51	7.51	7.51	7.51	7.41	7.61
Pentachlorophenol	8.53	8.53	8.53	8.53	8.53	8.53	8.43	8.63
PICLORAM	10.96	10.96	10.96	10.96	10.95	10.96	10.86	11.06

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Instrument ID: ECD_S **Calibration Date(s):** 09/03/2024 09/03/2024

Calibration Times: 13:26 15:03

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

LAB FILE ID: RT 200 = PS027581.D RT 500 = PS027582.D

RT 750 = PS027583.D RT 1000 = PS027584.D RT 1500 = PS027585.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	10.29	10.28	10.28	10.28	10.29	10.28	10.18	10.38
2,4,5-TP(Silvex)	9.87	9.87	9.87	9.87	9.87	9.87	9.77	9.97
2,4-D	8.97	8.97	8.97	8.97	8.97	8.97	8.87	9.07
2,4-DB	10.85	10.85	10.85	10.85	10.85	10.85	10.75	10.95
2,4-DCAA	7.73	7.73	7.73	7.73	7.73	7.73	7.63	7.83
3,5-DICHLOROBENZOIC	6.69	6.69	6.69	6.69	6.69	6.69	6.59	6.79
4-Nitrophenol	7.26	7.26	7.26	7.26	7.26	7.26	7.16	7.36
Dalapon	2.69	2.69	2.69	2.69	2.69	2.69	2.59	2.79
DCPA	12.27	12.27	12.27	12.27	12.27	12.27	12.17	12.37
DICAMBA	7.93	7.93	7.93	7.93	7.93	7.93	7.83	8.03
DICHLORPROP	8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Dinoseb	11.23	11.23	11.23	11.23	11.23	11.23	11.13	11.33
MCPA	8.27	8.27	8.27	8.27	8.28	8.27	8.17	8.37
MCPP	8.03	8.03	8.03	8.03	8.04	8.03	7.93	8.13
Pentachlorophenol	9.49	9.49	9.49	9.49	9.49	9.49	9.39	9.59
PICLORAM	12.32	12.32	12.32	12.32	12.32	12.32	12.22	12.42

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Instrument ID: ECD_S **Calibration Date(s):** 09/03/2024 09/03/2024

Calibration Times: 13:26 15:03

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

LAB FILE ID: **CF 200 =** PS027581.D **CF 500 =** PS027582.D

CF 750 = PS027583.D **CF 1000 =** PS027584.D **CF 1500 =** PS027585.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	17175800000	15417700000	14519900000	14197800000	13814900000	15025200000	9
2,4,5-TP(Silvex)	17903500000	15904200000	14892800000	14535300000	14091100000	15465400000	10
2,4-D	3349360000	2902330000	2702320000	2641600000	2590060000	2837130000	11
2,4-DB	2421170000	2143220000	2029340000	2028410000	2018410000	2128110000	8
2,4-DCAA	3039350000	2605630000	2406020000	2343310000	2284770000	2535820000	12
3,5-DICHLOROBENZOIC	4738500000	4118330000	3836290000	3733320000	3649850000	4015260000	11
4-Nitrophenol	1728160000	1495270000	1419360000	1413570000	1396780000	1490630000	9
Dalapon	3225860000	3077670000	3003000000	3010940000	3049900000	3073470000	3
DCPA	21234100000	19008500000	17856000000	17419100000	16840200000	18471600000	9
DICAMBA	12258100000	11118200000	10516700000	10315700000	10166300000	10875000000	8
DICHLORPROP	3309460000	2735330000	2538660000	2473230000	2427190000	2696770000	13
Dinoseb	12452700000	11155300000	10766900000	10580300000	10211800000	11033400000	8
MCPA	10787600000	10038200000	9691580000	9723340000	9917290000	10031600000	4
MCPP	6803920000	7466210000	7445190000	7595080000	7931260000	7448330000	6
Pentachlorophenol	47021600000	42012500000	39280800000	38101900000	32115100000	39706400000	14
PICLORAM	21294000000	19529400000	18744500000	18915800000	18795400000	19455800000	6

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Instrument ID: ECD_S **Calibration Date(s):** 09/03/2024 09/03/2024

Calibration Times: 13:26 15:03

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

LAB FILE ID: **CF 200 =** PS027581.D **CF 500 =** PS027582.D

CF 750 = PS027583.D **CF 1000 =** PS027584.D **CF 1500 =** PS027585.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	14840400000	13366600000	12513400000	12330700000	12023300000	13014900000	9
2,4,5-TP(Silvex)	15126900000	13600000000	12697100000	12445900000	12128000000	13199600000	9
2,4-D	2833590000	2475120000	2303480000	2262450000	2239950000	2422920000	10
2,4-DB	1802230000	1645130000	1557600000	1552370000	1568010000	1625070000	7
2,4-DCAA	2279660000	1947230000	1816700000	1785470000	1782570000	1922330000	11
3,5-DICHLOROBENZOIC	3249590000	2866770000	2695070000	2667950000	2665160000	2828910000	9
4-Nitrophenol	1444660000	1273430000	1227880000	1237880000	1257620000	1288300000	7
Dalapon	4310550000	3435360000	3240530000	3188200000	3174580000	3469840000	14
DCPA	16348400000	14776900000	13868600000	13614500000	13205300000	14362700000	9
DICAMBA	9936240000	8978750000	8561810000	8464590000	8467970000	8881870000	7
DICHLORPROP	2534580000	2224230000	2067760000	2019200000	2013900000	2171940000	10
Dinoseb	9005130000	8252870000	8034100000	7989660000	7723710000	8201100000	6
MCPA	9635120000	8580230000	8212730000	8125810000	8352760000	8581330000	7
MCPP	5919040000	5872630000	5814380000	5880380000	6143790000	5926050000	2
Pentachlorophenol	38766700000	34583800000	32014200000	30923500000	28906300000	33038900000	12
PICLORAM	19459100000	18520900000	17958500000	18158600000	18094800000	18438400000	3

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027581.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 13:26
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:09:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:04:23 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	7.149	7.731	607.9E6	455.9E6	233.924	232.943
		Target Compounds						
1)	T	Dalapon	2.589	2.689	587.1E6	784.5E6	190.658	221.387
2)	T	3,5-DICHL...	6.334	6.687	881.4E6	604.4E6	214.620	210.612
3)	T	4-Nitroph...	6.947	7.260	314.5E6	262.9E6	207.732	202.882
5)	T	DICAMBA	7.329	7.928	2304.5E6	1868.0E6	208.513	207.895
6)	T	MCPP	7.504	8.026	127.9E6	111.3E6	17.456	18.952
7)	T	MCPA	7.649	8.268	200.6E6	179.2E6	19.945	20.746
8)	T	DICHLORPROP	8.020	8.639	622.2E6	476.5E6	225.087	215.471
9)	T	2,4-D	8.244	8.968	629.7E6	532.7E6	217.213	215.791
10)	T	Pentachlo...	8.533	9.493	8934.1E6	7365.7E6	214.740	216.179
11)	T	2,4,5-TP ...	9.102	9.867	3401.7E6	2874.1E6	215.173	213.411
12)	T	2,4,5-T	9.389	10.285	3263.4E6	2819.7E6	212.907	212.601
13)	T	2,4-DB	9.956	10.849	460.0E6	342.4E6	213.415	208.880
14)	T	DINOSEB	11.138	11.227	2341.1E6	1693.0E6	208.306	203.470
15)	T	Picloram	10.957	12.317	4045.9E6	3697.2E6	206.201	199.589
16)	T	DCPA	11.437	12.266	4077.0E6	3138.9E6	215.947	214.229

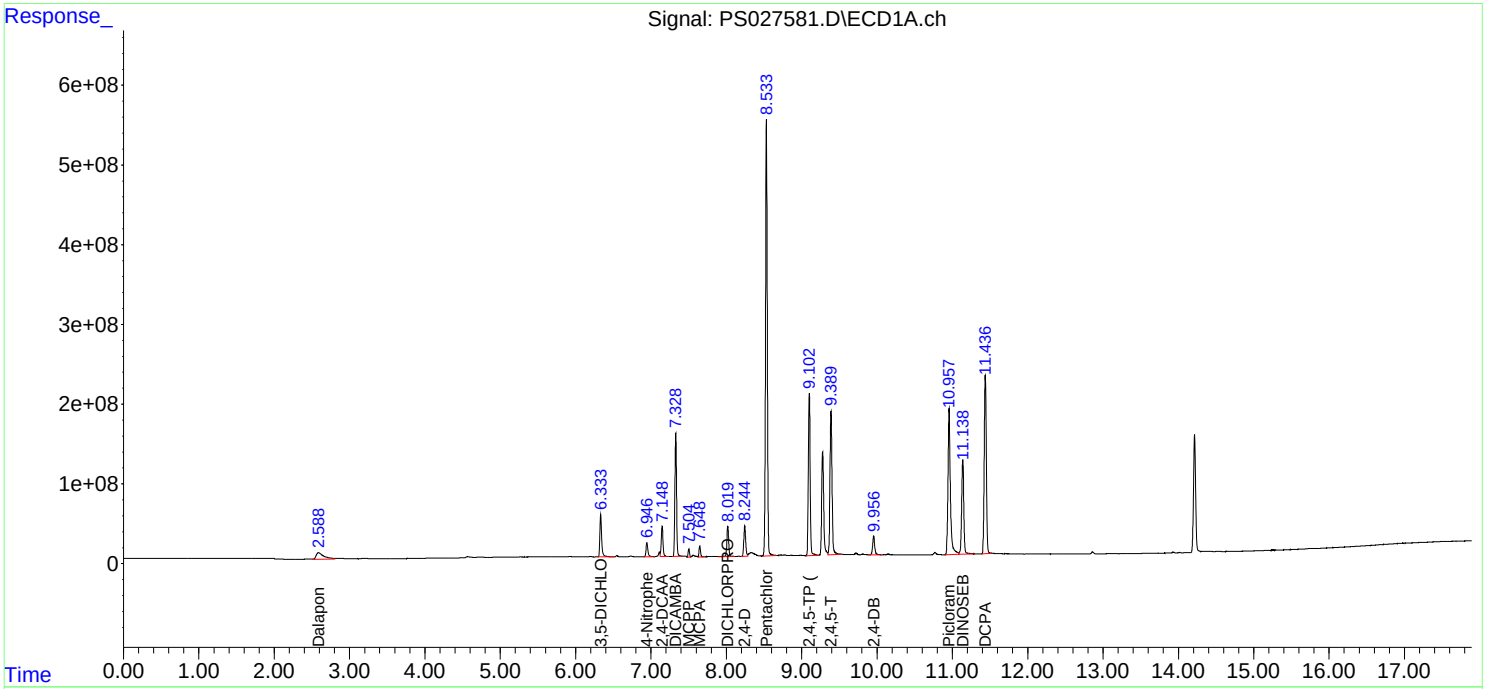
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

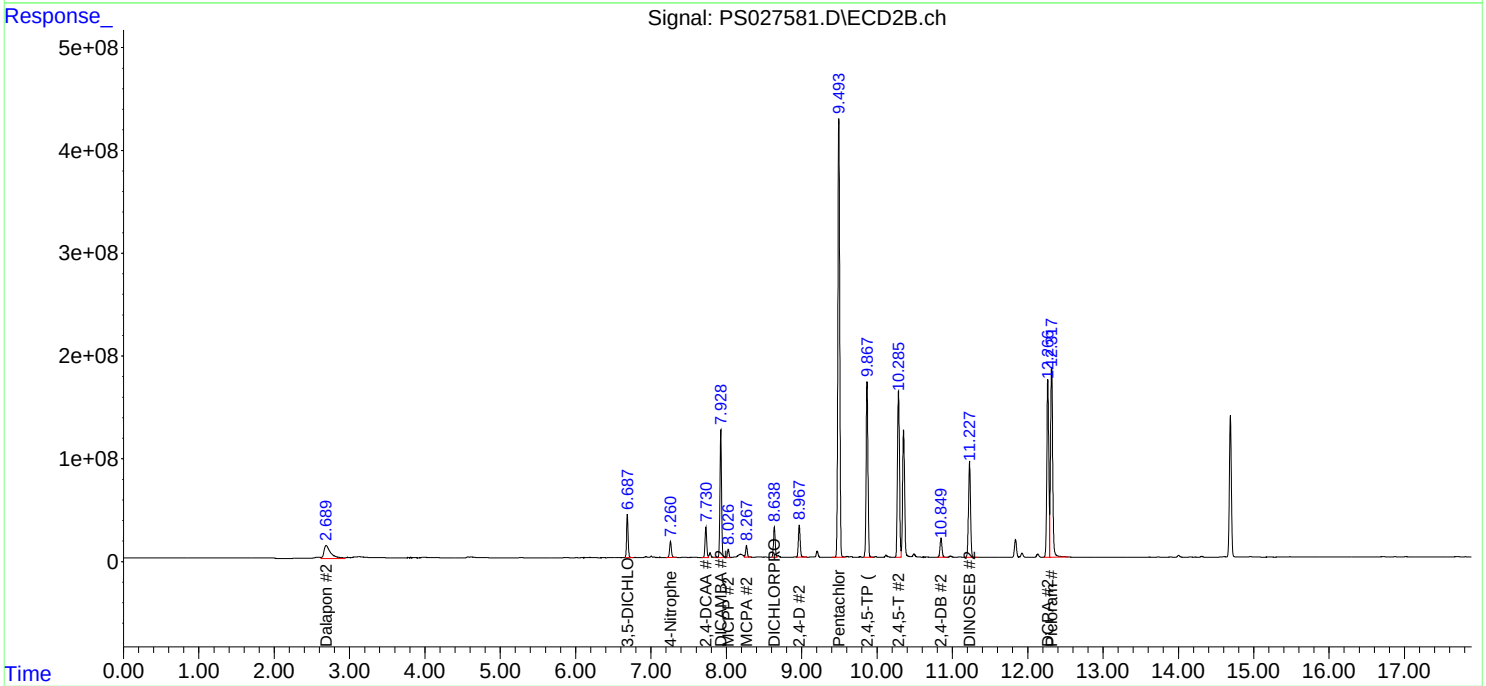
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027581.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 13:26
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

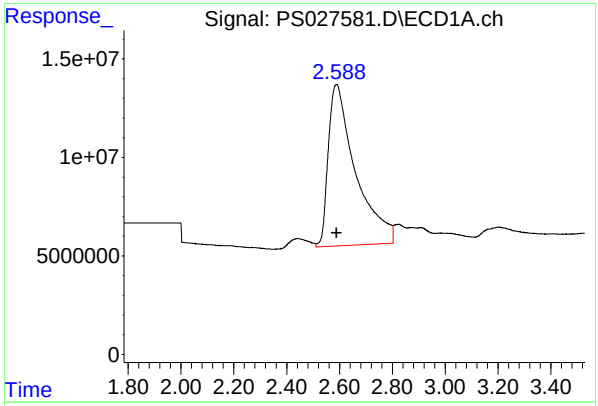
Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:09:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:04:23 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



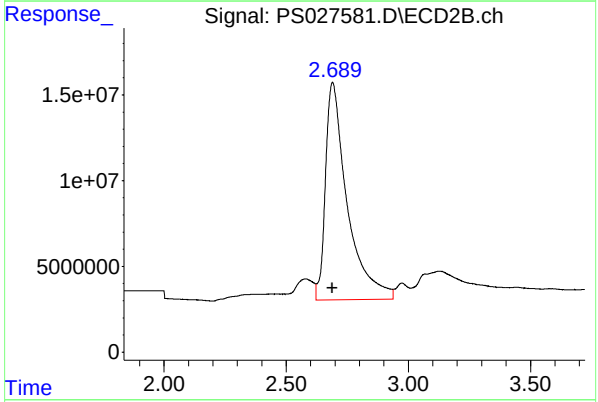




#1 Dalapon

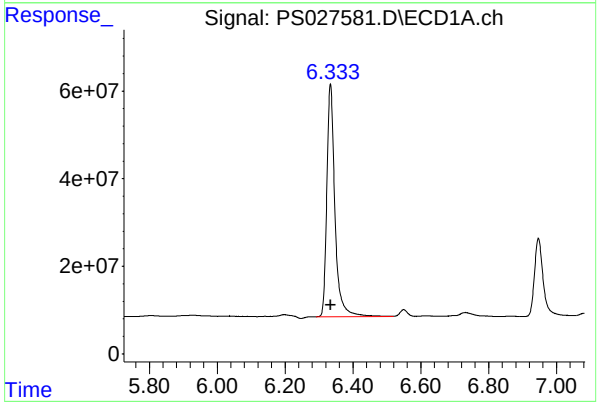
R.T.: 2.589 min
Delta R.T.: 0.000 min
Response: 587106601
Conc: 190.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



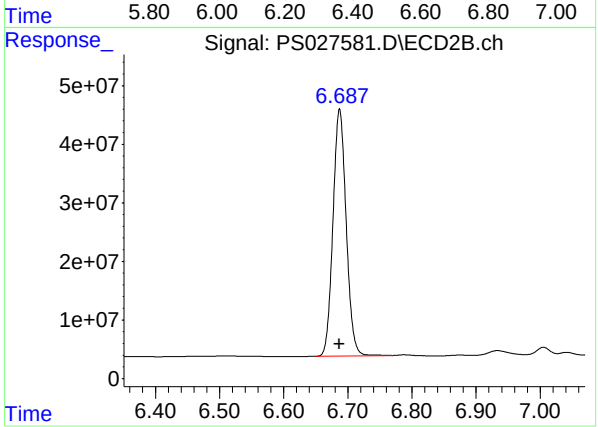
#1 Dalapon

R.T.: 2.689 min
Delta R.T.: 0.000 min
Response: 784519251
Conc: 221.39 ng/ml



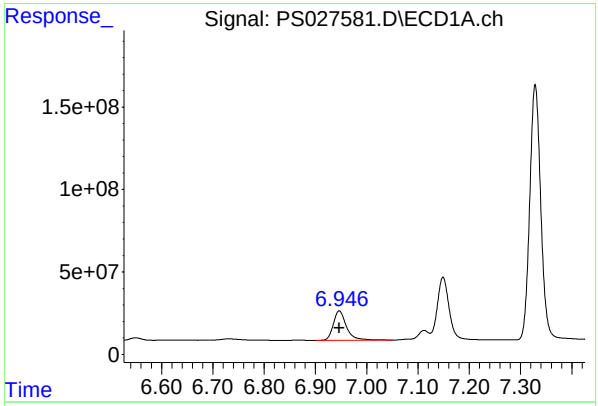
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.334 min
Delta R.T.: 0.000 min
Response: 881361390
Conc: 214.62 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

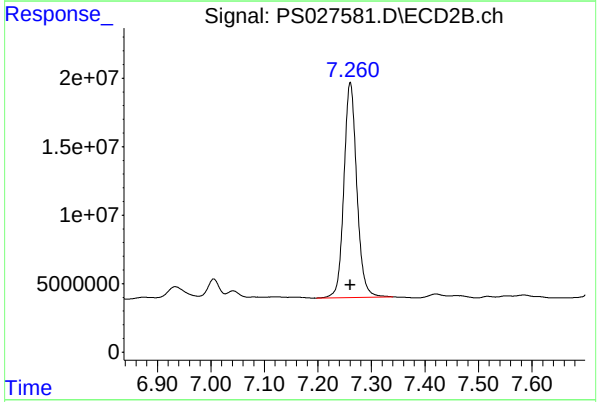
R.T.: 6.687 min
Delta R.T.: 0.000 min
Response: 604422908
Conc: 210.61 ng/ml



#3 4-Nitrophenol

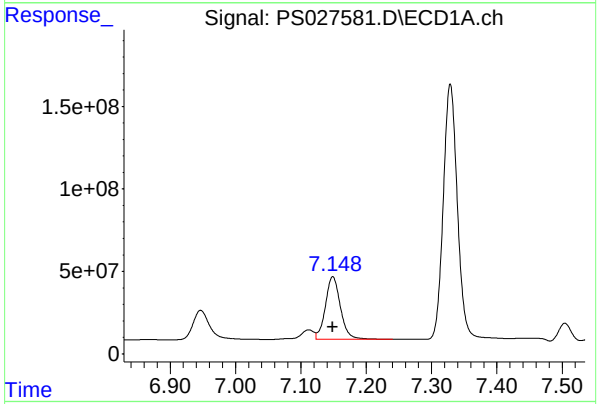
R.T.: 6.947 min
Delta R.T.: 0.000 min
Response: 314525409
Conc: 207.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



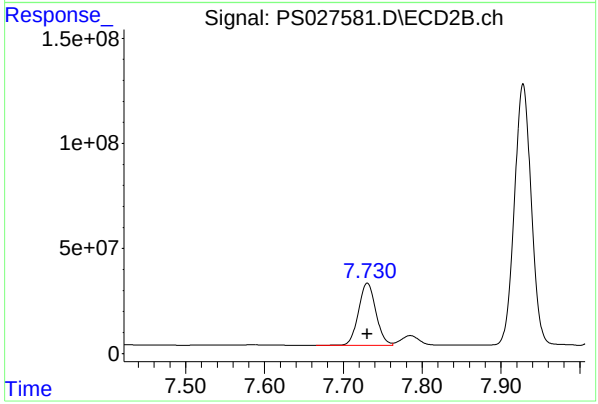
#3 4-Nitrophenol

R.T.: 7.260 min
Delta R.T.: 0.000 min
Response: 262927322
Conc: 202.88 ng/ml



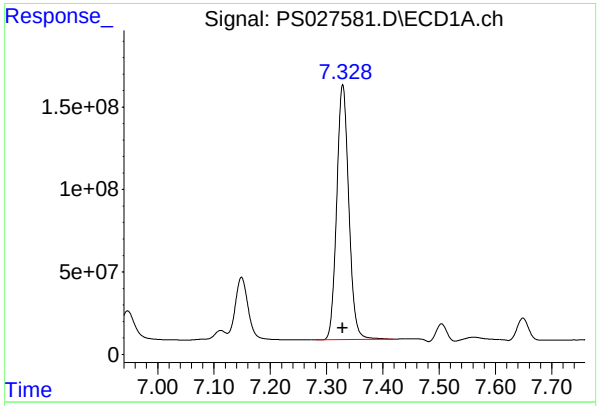
#4 2,4-DCAA

R.T.: 7.149 min
Delta R.T.: 0.000 min
Response: 607869080
Conc: 233.92 ng/ml



#4 2,4-DCAA

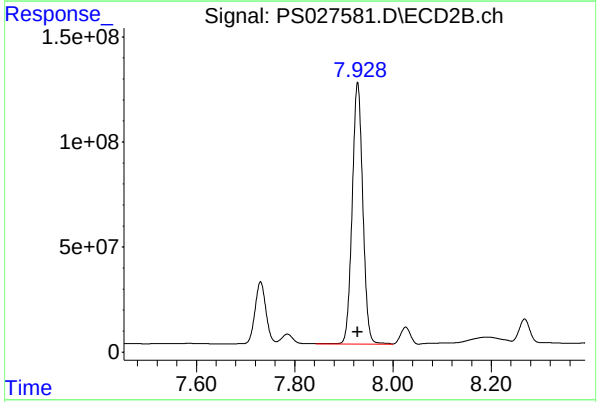
R.T.: 7.731 min
Delta R.T.: 0.000 min
Response: 455932149
Conc: 232.94 ng/ml



#5 DICAMBA

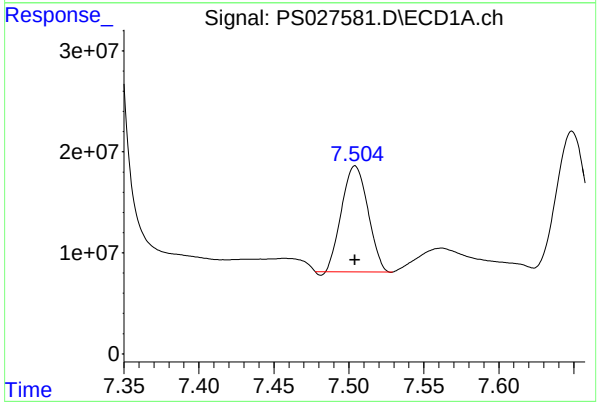
R.T.: 7.329 min
Delta R.T.: 0.000 min
Response: 2304526005
Conc: 208.51 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



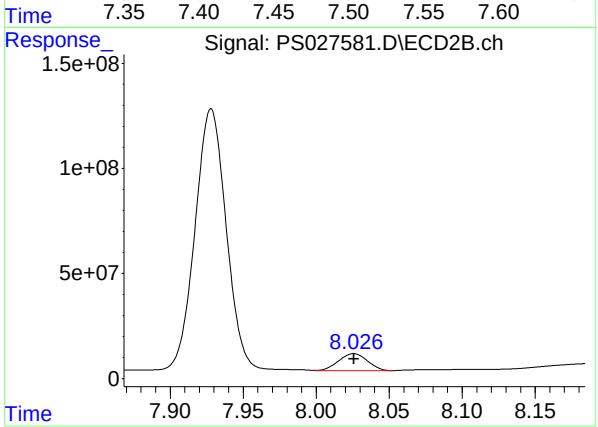
#5 DICAMBA

R.T.: 7.928 min
Delta R.T.: 0.000 min
Response: 1868013067
Conc: 207.90 ng/ml



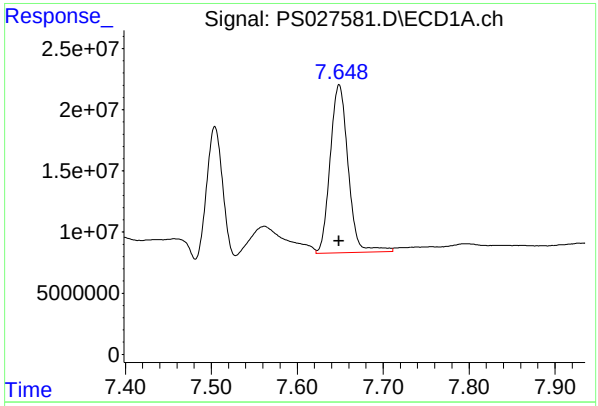
#6 MCPP

R.T.: 7.504 min
Delta R.T.: 0.000 min
Response: 127913669
Conc: 17.46 ug/ml



#6 MCPP

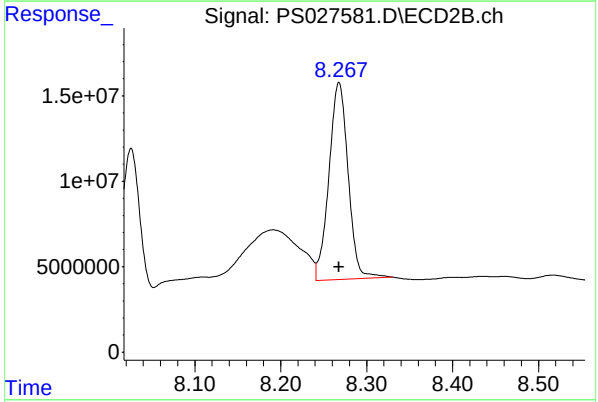
R.T.: 8.026 min
Delta R.T.: 0.000 min
Response: 111278001
Conc: 18.95 ug/ml



#7 MCPA

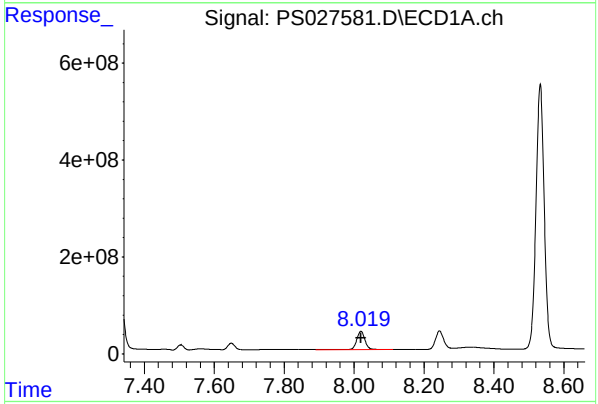
R.T.: 7.649 min
Delta R.T.: 0.000 min
Response: 200649635
Conc: 19.94 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



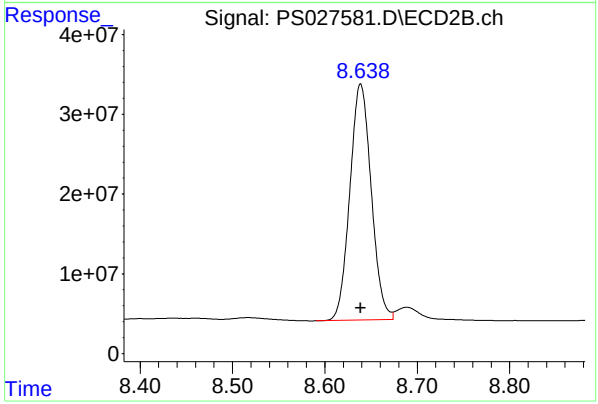
#7 MCPA

R.T.: 8.268 min
Delta R.T.: 0.000 min
Response: 179213224
Conc: 20.75 ug/ml



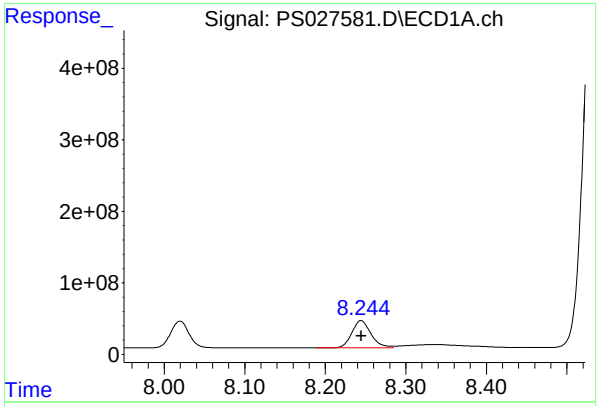
#8 DICHLORPROP

R.T.: 8.020 min
Delta R.T.: 0.000 min
Response: 622177763
Conc: 225.09 ng/ml



#8 DICHLORPROP

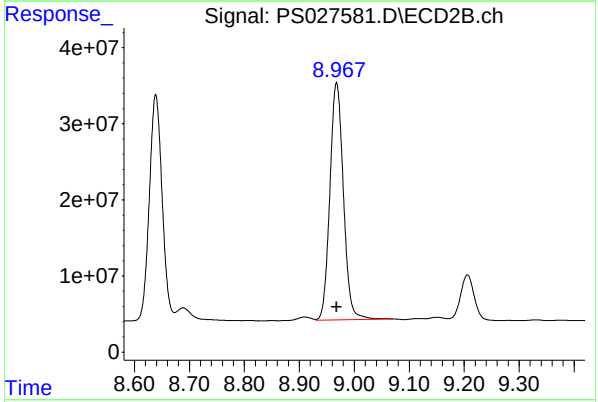
R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 476501383
Conc: 215.47 ng/ml



#9 2,4-D

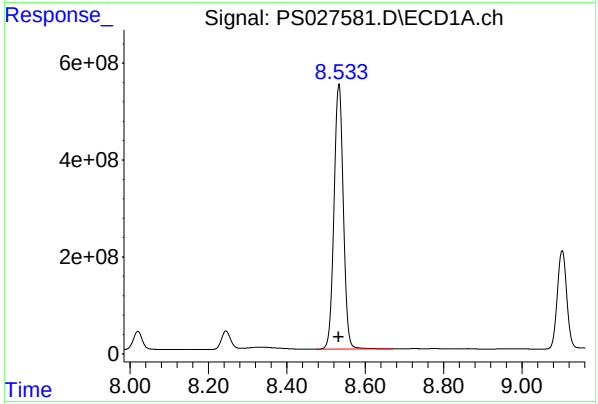
R.T.: 8.244 min
Delta R.T.: 0.000 min
Response: 629678832
Conc: 217.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



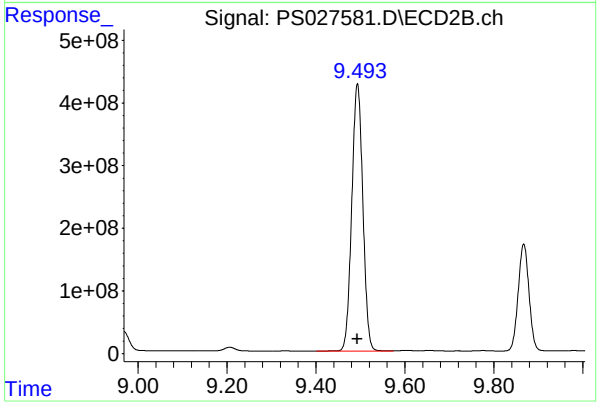
#9 2,4-D

R.T.: 8.968 min
Delta R.T.: 0.000 min
Response: 532714820
Conc: 215.79 ng/ml



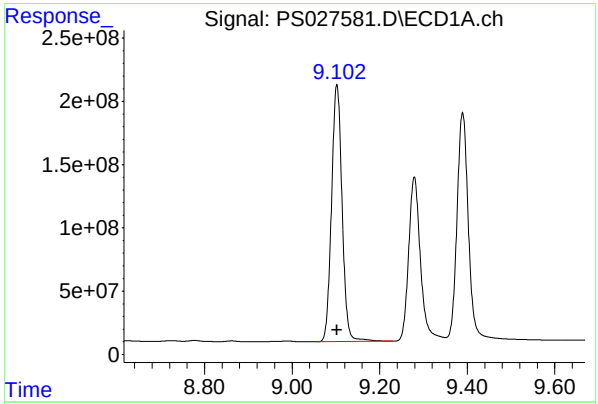
#10 Pentachlorophenol

R.T.: 8.533 min
Delta R.T.: 0.000 min
Response: 8934102023
Conc: 214.74 ng/ml



#10 Pentachlorophenol

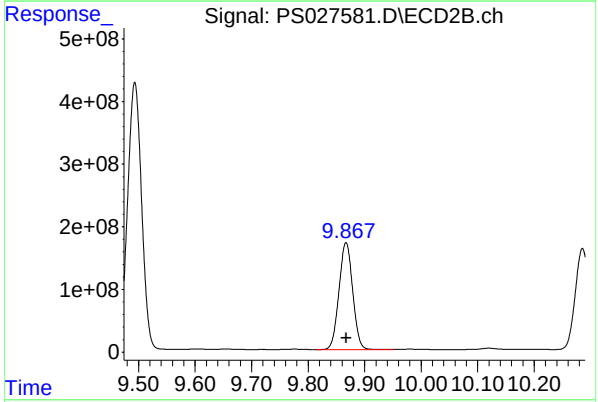
R.T.: 9.493 min
Delta R.T.: 0.000 min
Response: 7365674390
Conc: 216.18 ng/ml



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

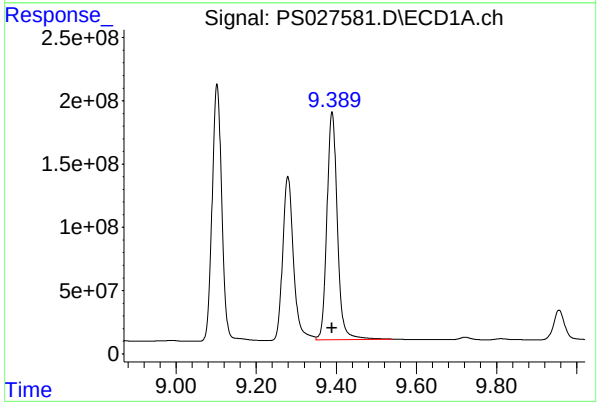
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 3401667146
Conc: 215.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



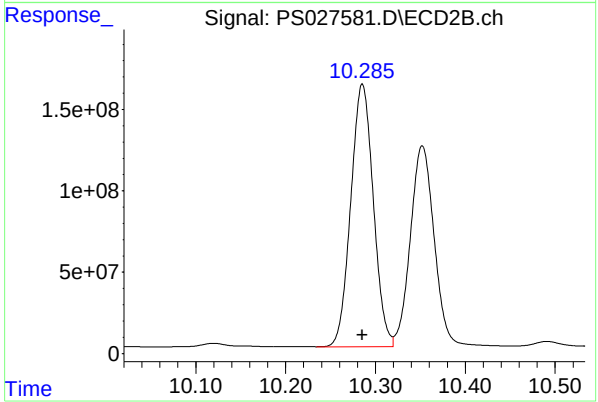
#11 2,4,5-TP (SILVEX)

R.T.: 9.867 min
Delta R.T.: 0.000 min
Response: 2874105459
Conc: 213.41 ng/ml



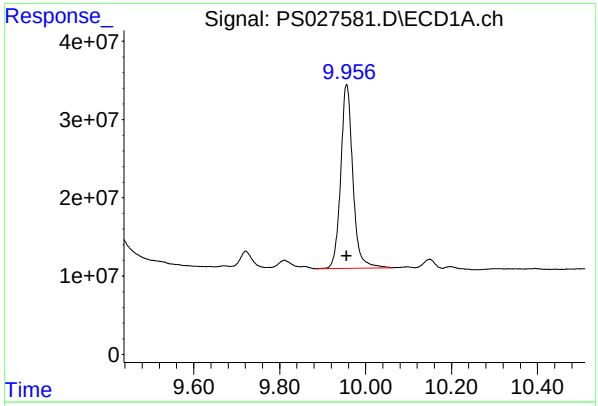
#12 2,4,5-T

R.T.: 9.389 min
Delta R.T.: 0.000 min
Response: 3263393929
Conc: 212.91 ng/ml



#12 2,4,5-T

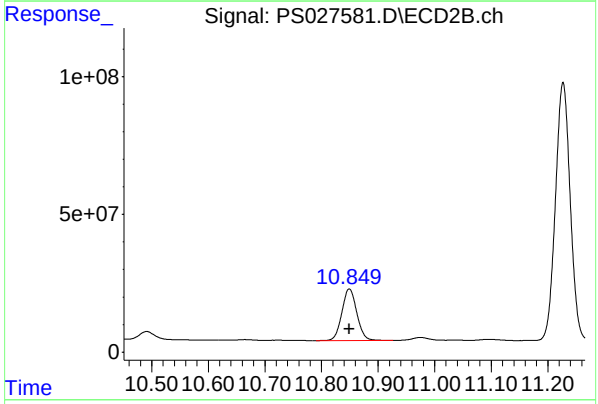
R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 2819679576
Conc: 212.60 ng/ml



#13 2,4-DB

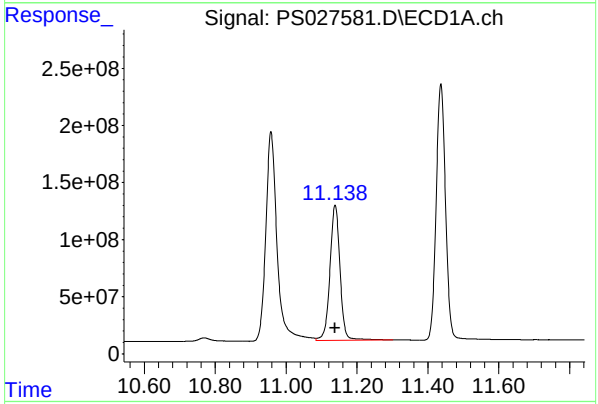
R.T.: 9.956 min
Delta R.T.: 0.000 min
Response: 460022555
Conc: 213.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



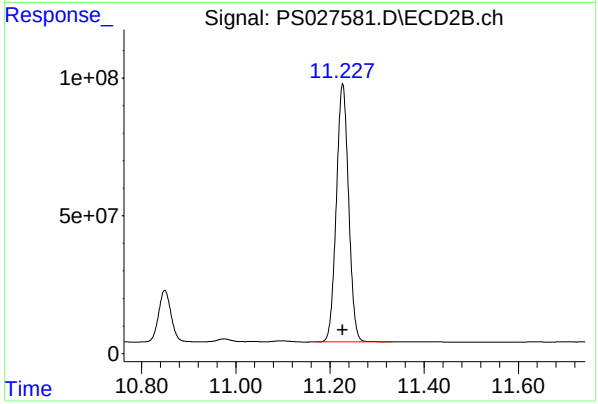
#13 2,4-DB

R.T.: 10.849 min
Delta R.T.: 0.000 min
Response: 342423004
Conc: 208.88 ng/ml



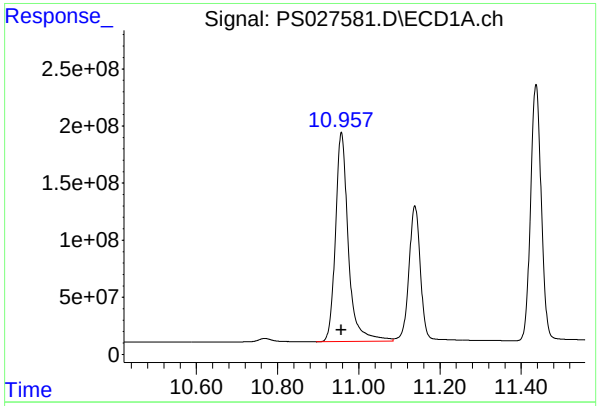
#14 DINOSEB

R.T.: 11.138 min
Delta R.T.: 0.000 min
Response: 2341108686
Conc: 208.31 ng/ml



#14 DINOSEB

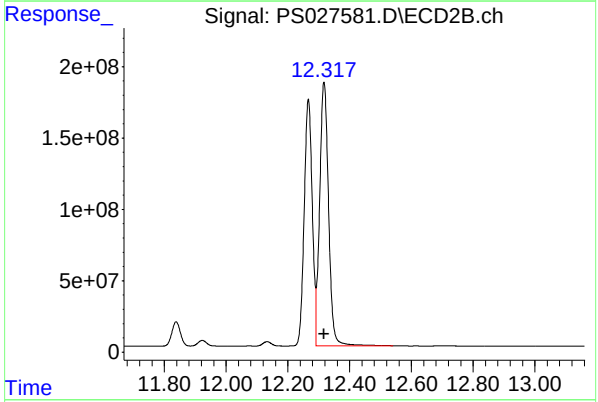
R.T.: 11.227 min
Delta R.T.: 0.000 min
Response: 1692963534
Conc: 203.47 ng/ml



#15 Picloram

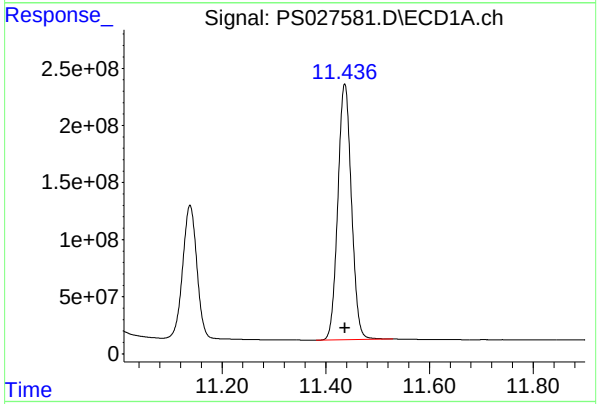
R.T.: 10.957 min
Delta R.T.: 0.000 min
Response: 4045865760
Conc: 206.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



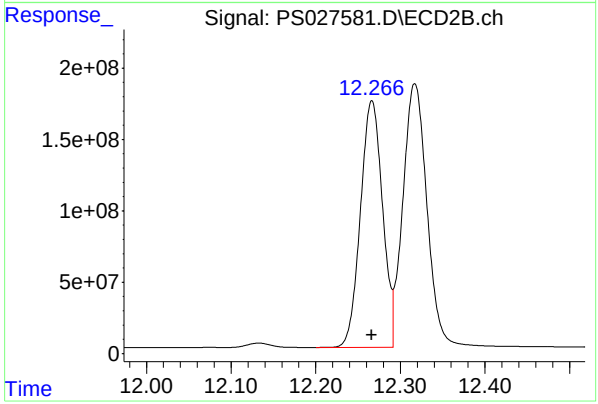
#15 Picloram

R.T.: 12.317 min
Delta R.T.: 0.000 min
Response: 3697231400
Conc: 199.59 ng/ml



#16 DCPA

R.T.: 11.437 min
Delta R.T.: 0.000 min
Response: 4076951986
Conc: 215.95 ng/ml



#16 DCPA

R.T.: 12.266 min
Delta R.T.: 0.000 min
Response: 3138900670
Conc: 214.23 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027582.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 13:51
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:08:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:04:23 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	7.148	7.729	1302.8E6	973.6E6	531.402	526.335
	Target Compounds						
1) T	Dalapon	2.589	2.690	1400.3E6	1563.1E6	462.076	475.387
2) T	3,5-DICHL...	6.333	6.687	1915.0E6	1333.0E6	491.539	485.935
3) T	4-Nitroph...	6.946	7.260	680.3E6	579.4E6	471.569	464.869
5) T	DICAMBA	7.329	7.927	5225.6E6	4220.0E6	490.654	486.828
6) T	MCPP	7.506	8.027	350.9E6	276.0E6	46.775	47.135
7) T	MCPA	7.651	8.270	466.8E6	399.0E6	47.544	48.034
8) T	DICHLORPROP	8.019	8.638	1285.6E6	1045.4E6	497.832	496.921
9) T	2,4-D	8.244	8.966	1364.1E6	1163.3E6	496.260	495.653
10) T	Pentachlo...	8.532	9.492	19955.9E6	16427.3E6	501.426	505.344
11) T	2,4,5-TP ...	9.102	9.866	7554.5E6	6460.0E6	499.942	500.218
12) T	2,4,5-T	9.389	10.284	7323.4E6	6349.1E6	497.790	498.483
13) T	2,4-DB	9.955	10.848	1018.0E6	781.4E6	492.517	493.009
14) T	DINOSEB	11.137	11.226	5243.0E6	3878.9E6	483.929	479.331
15) T	Picloram	10.956	12.316	9276.5E6	8797.4E6	486.615	483.039
16) T	DCPA	11.437	12.265	9124.1E6	7092.9E6	504.245	503.519

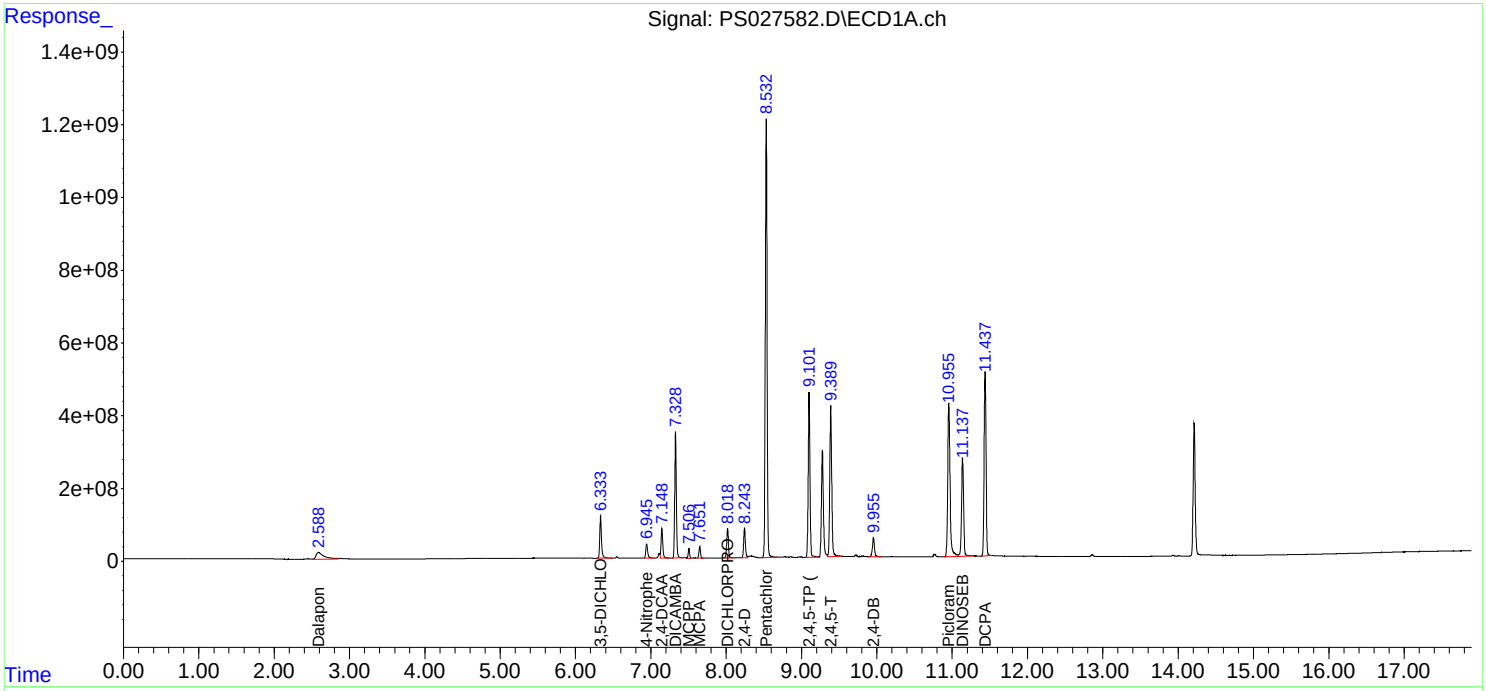
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

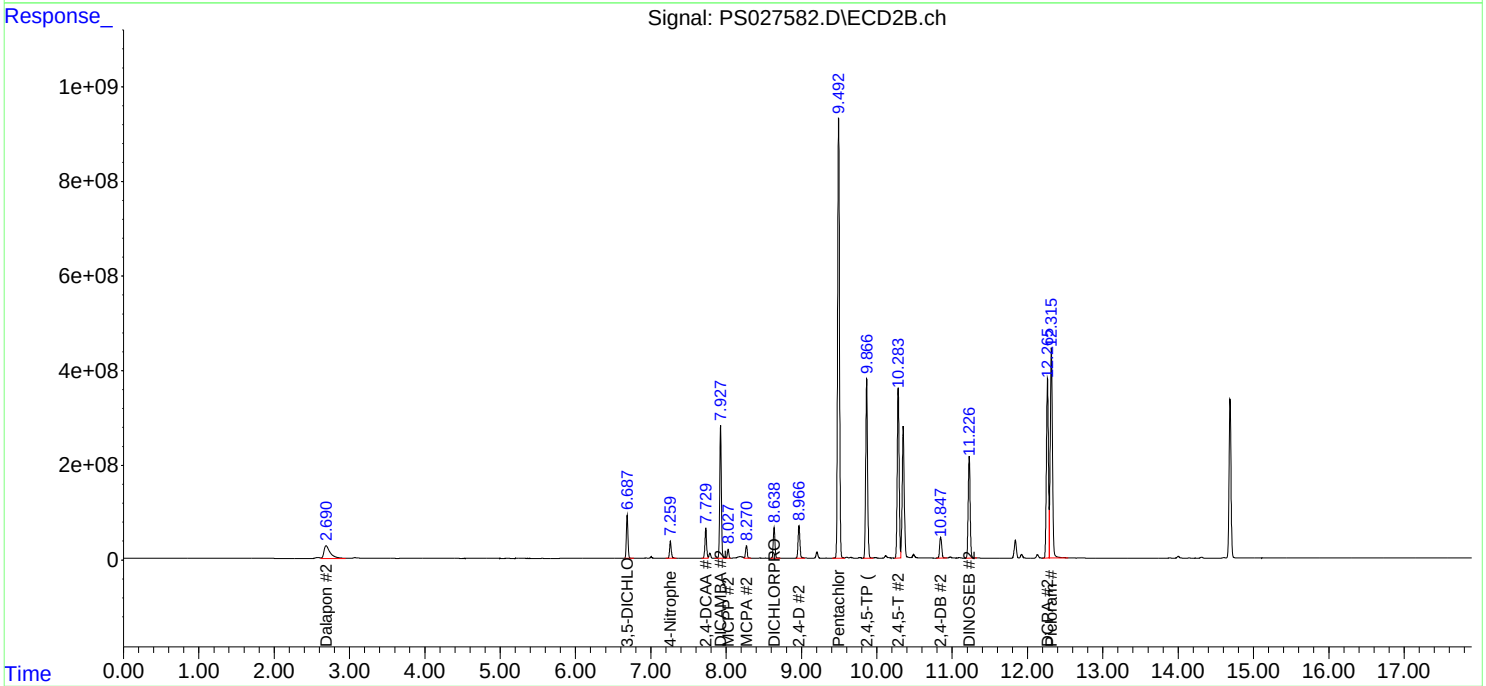
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027582.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 13:51
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

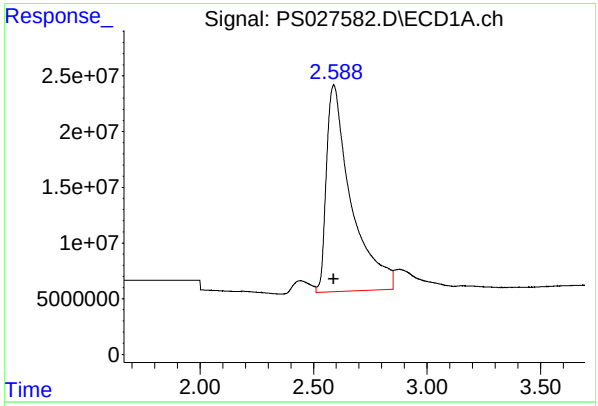
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:08:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:04:23 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



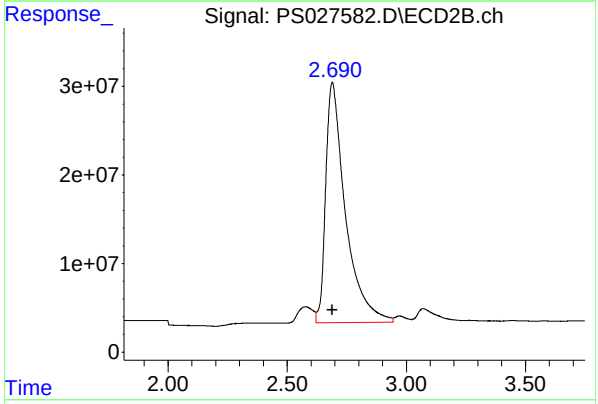




#1 Dalapon

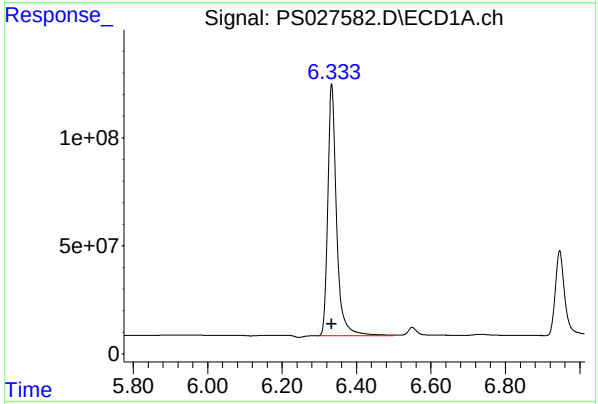
R.T.: 2.589 min
Delta R.T.: 0.000 min
Response: 1400337975
Conc: 462.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



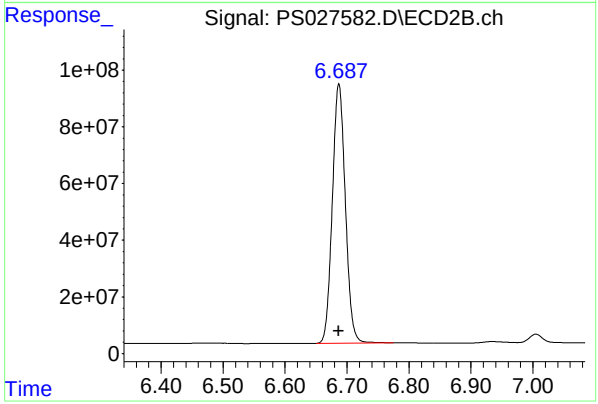
#1 Dalapon

R.T.: 2.690 min
Delta R.T.: 0.000 min
Response: 1563086618
Conc: 475.39 ng/ml



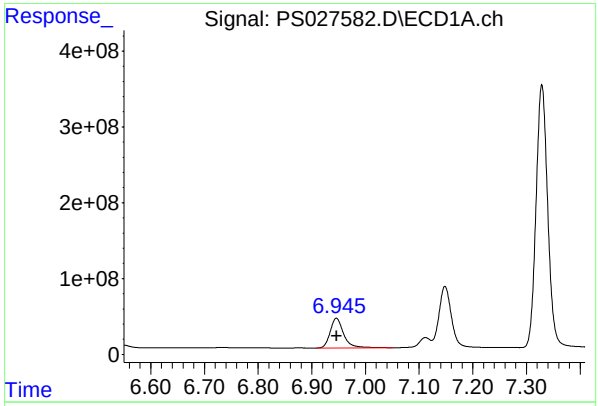
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.333 min
Delta R.T.: 0.000 min
Response: 1915024043
Conc: 491.54 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

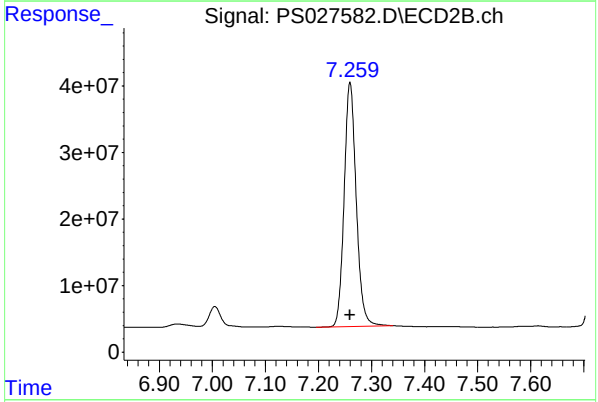
R.T.: 6.687 min
Delta R.T.: 0.000 min
Response: 1333048731
Conc: 485.93 ng/ml



#3 4-Nitrophenol

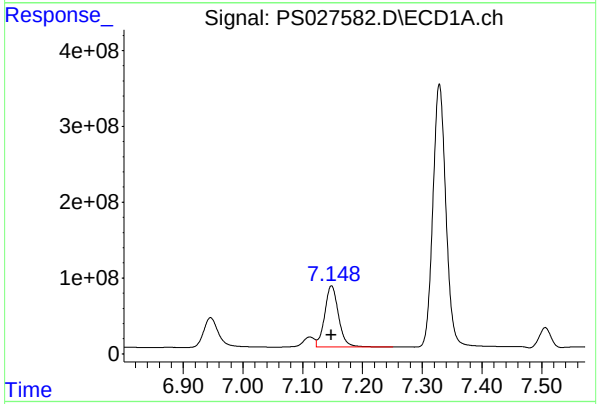
R.T.: 6.946 min
Delta R.T.: 0.000 min
Response: 680349374
Conc: 471.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



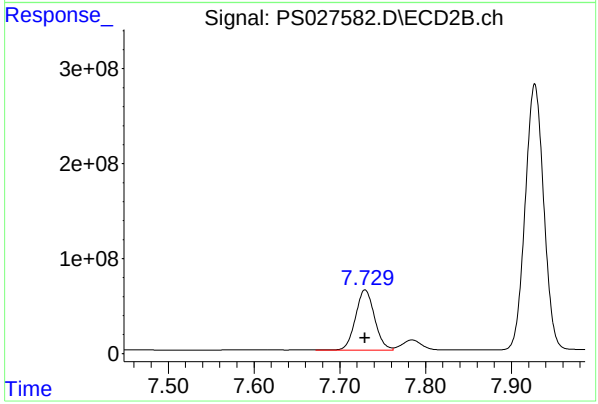
#3 4-Nitrophenol

R.T.: 7.260 min
Delta R.T.: 0.000 min
Response: 579412612
Conc: 464.87 ng/ml



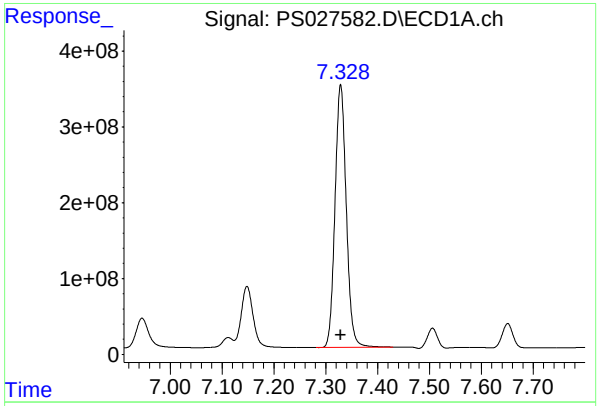
#4 2,4-DCAA

R.T.: 7.148 min
Delta R.T.: 0.000 min
Response: 1302815249
Conc: 531.40 ng/ml



#4 2,4-DCAA

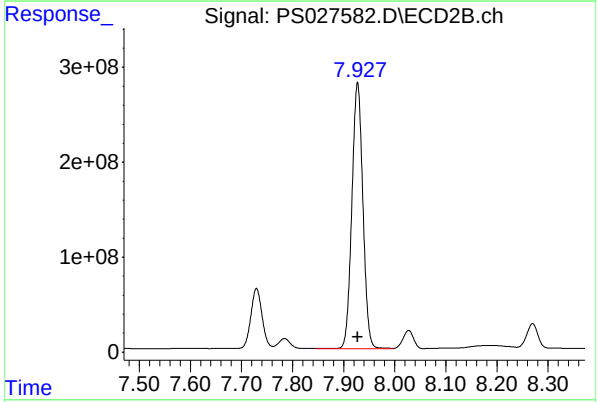
R.T.: 7.729 min
Delta R.T.: 0.000 min
Response: 973614285
Conc: 526.33 ng/ml



#5 DICAMBA

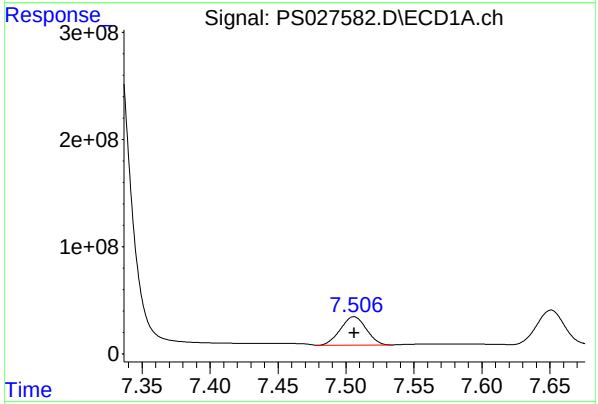
R.T.: 7.329 min
Delta R.T.: 0.000 min
Response: 5225554119
Conc: 490.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



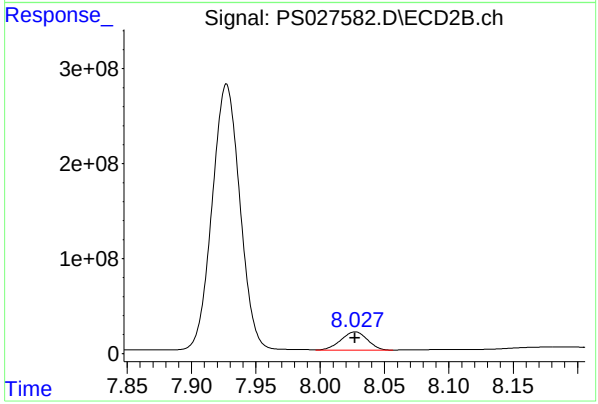
#5 DICAMBA

R.T.: 7.927 min
Delta R.T.: 0.000 min
Response: 4220010684
Conc: 486.83 ng/ml



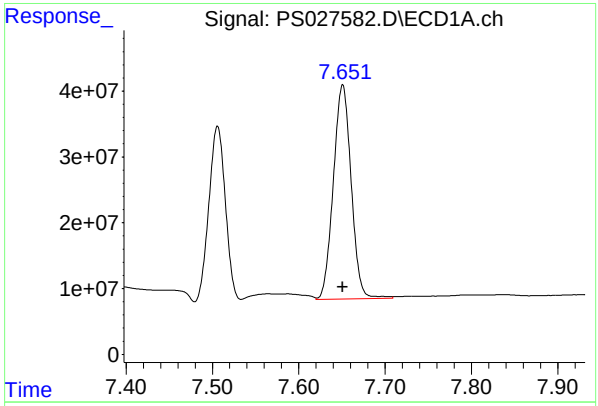
#6 MCPP

R.T.: 7.506 min
Delta R.T.: 0.000 min
Response: 350911648
Conc: 46.77 ug/ml



#6 MCPP

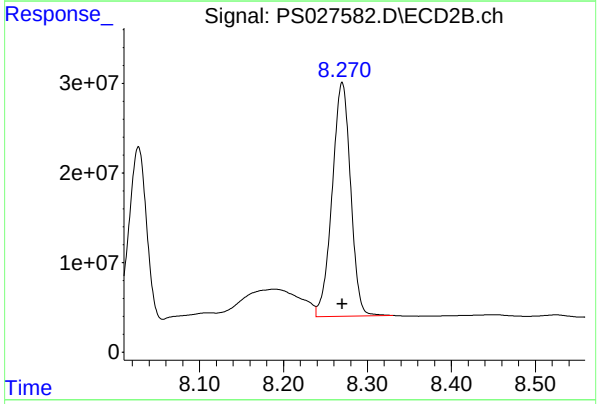
R.T.: 8.027 min
Delta R.T.: 0.000 min
Response: 276013790
Conc: 47.14 ug/ml



#7 MCPA

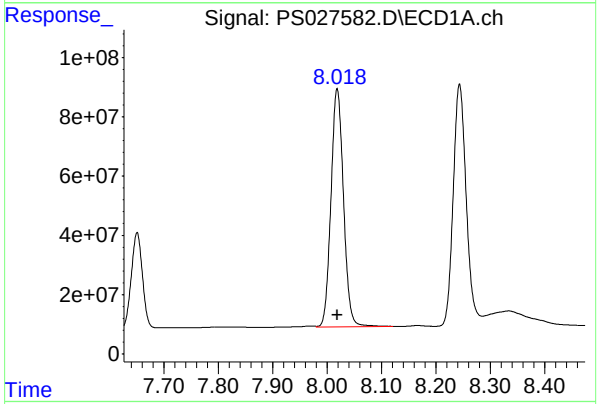
R.T.: 7.651 min
Delta R.T.: 0.000 min
Response: 466778358
Conc: 47.54 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



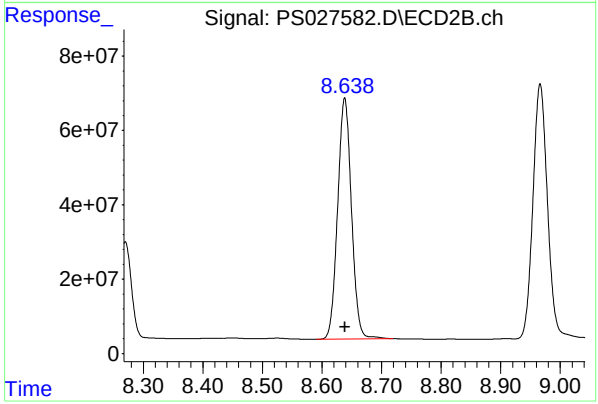
#7 MCPA

R.T.: 8.270 min
Delta R.T.: 0.000 min
Response: 398980866
Conc: 48.03 ug/ml



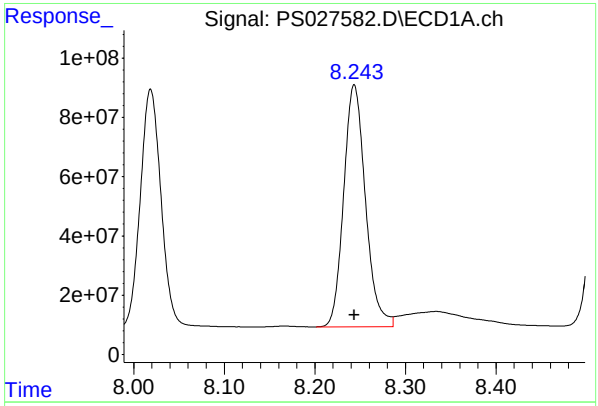
#8 DICHLORPROP

R.T.: 8.019 min
Delta R.T.: 0.000 min
Response: 1285605144
Conc: 497.83 ng/ml



#8 DICHLORPROP

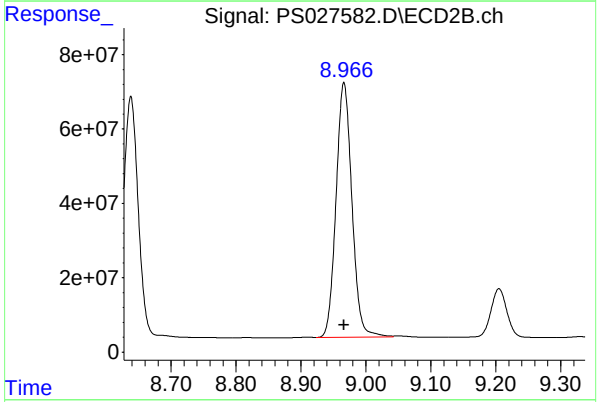
R.T.: 8.638 min
Delta R.T.: 0.000 min
Response: 1045388406
Conc: 496.92 ng/ml



#9 2,4-D

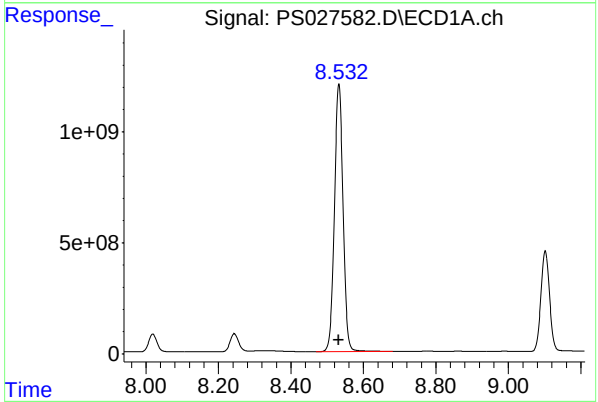
R.T.: 8.244 min
Delta R.T.: 0.000 min
Response: 1364093065
Conc: 496.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



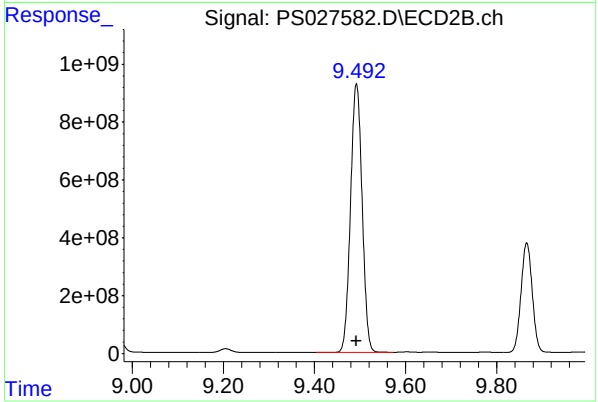
#9 2,4-D

R.T.: 8.966 min
Delta R.T.: 0.000 min
Response: 1163304173
Conc: 495.65 ng/ml



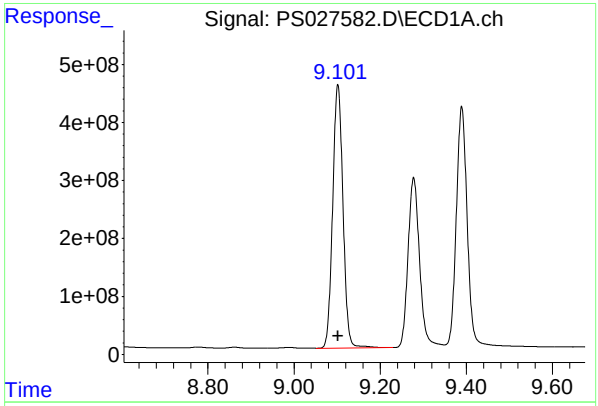
#10 Pentachlorophenol

R.T.: 8.532 min
Delta R.T.: 0.000 min
Response: 19955944662
Conc: 501.43 ng/ml



#10 Pentachlorophenol

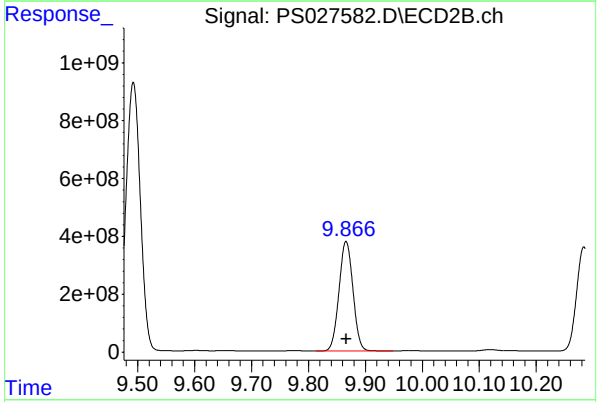
R.T.: 9.492 min
Delta R.T.: 0.000 min
Response: 16427325469
Conc: 505.34 ng/ml



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

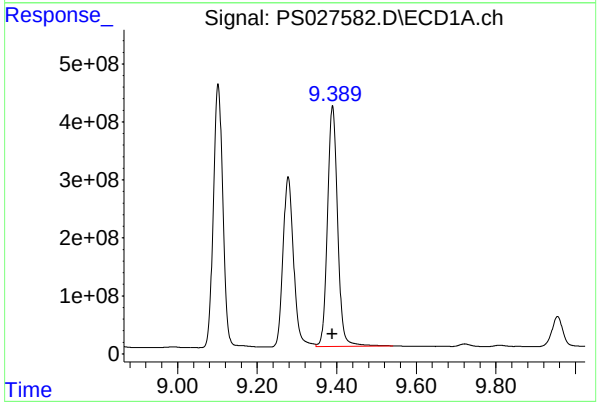
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 7554513568
Conc: 499.94 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



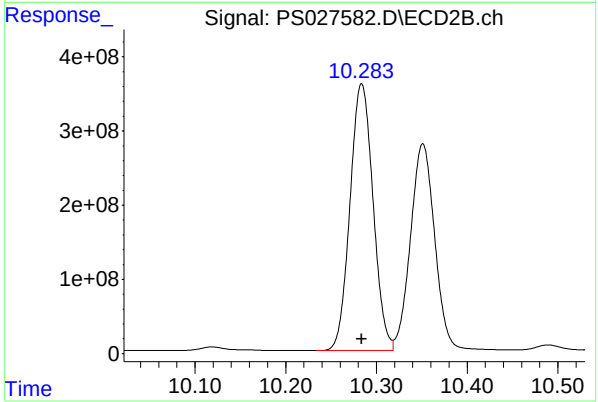
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: 0.000 min
Response: 6460004074
Conc: 500.22 ng/ml



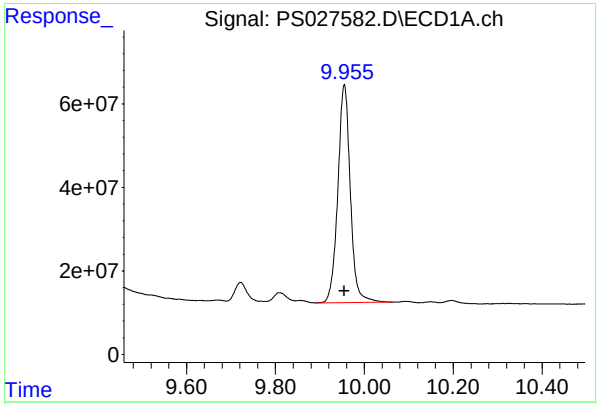
#12 2,4,5-T

R.T.: 9.389 min
Delta R.T.: 0.000 min
Response: 7323406376
Conc: 497.79 ng/ml



#12 2,4,5-T

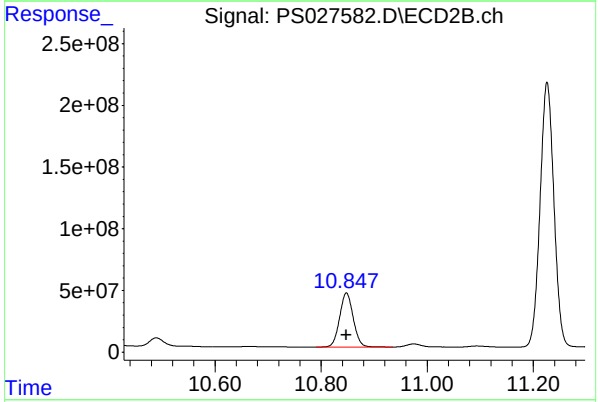
R.T.: 10.284 min
Delta R.T.: 0.000 min
Response: 6349123368
Conc: 498.48 ng/ml



#13 2,4-DB

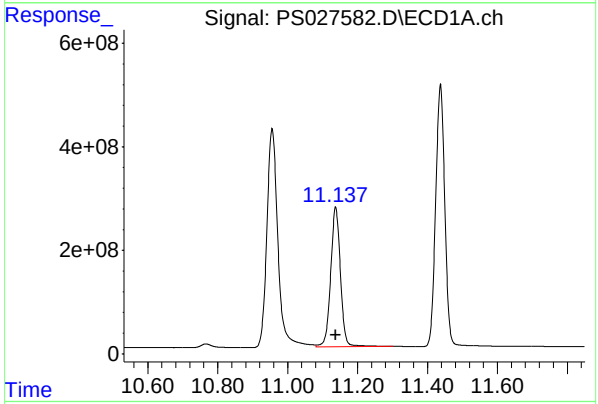
R.T.: 9.955 min
Delta R.T.: 0.000 min
Response: 1018027354
Conc: 492.52 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



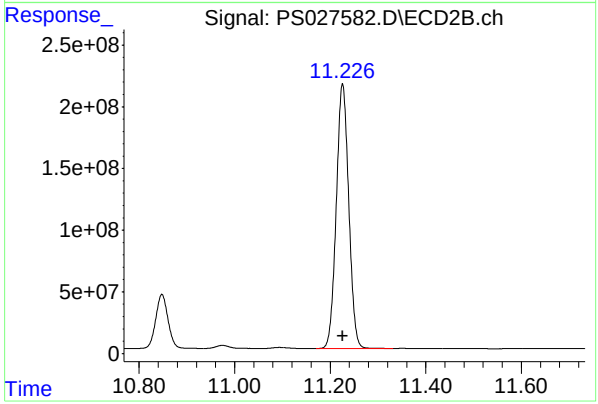
#13 2,4-DB

R.T.: 10.848 min
Delta R.T.: 0.000 min
Response: 781435374
Conc: 493.01 ng/ml



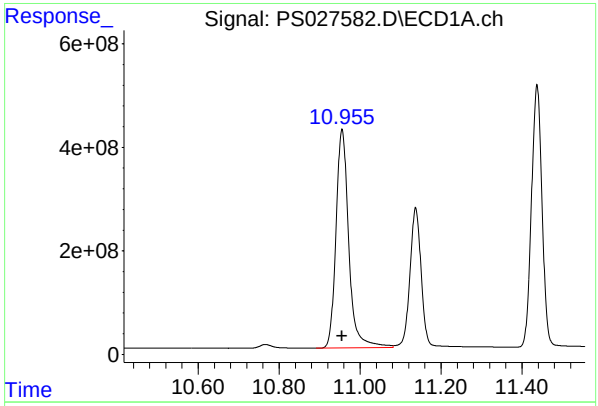
#14 DINOSEB

R.T.: 11.137 min
Delta R.T.: 0.000 min
Response: 5242968516
Conc: 483.93 ng/ml



#14 DINOSEB

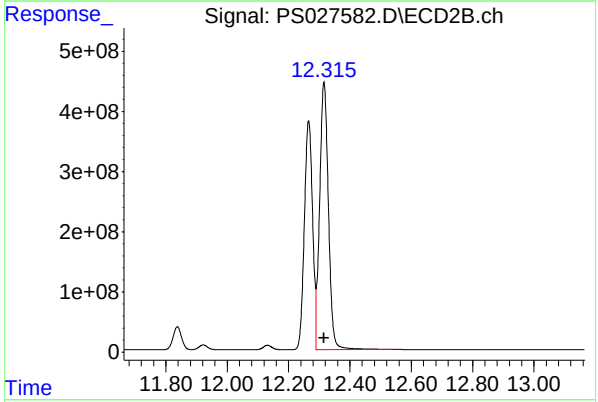
R.T.: 11.226 min
Delta R.T.: 0.000 min
Response: 3878851249
Conc: 479.33 ng/ml



#15 Picloram

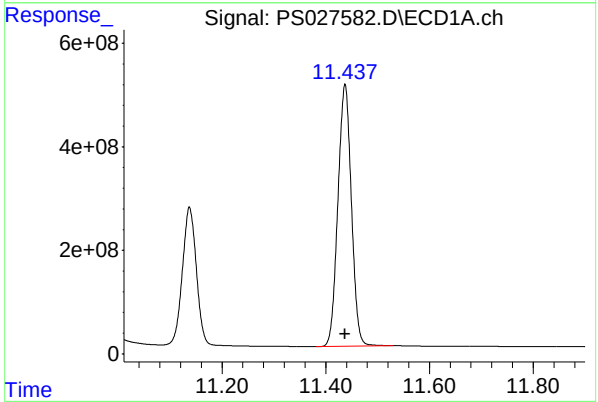
R.T.: 10.956 min
Delta R.T.: 0.000 min
Response: 9276451796
Conc: 486.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



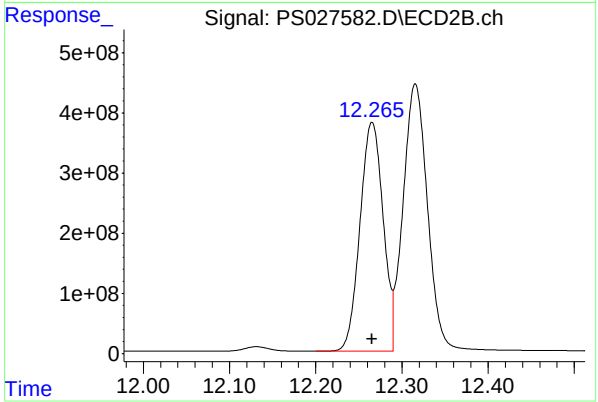
#15 Picloram

R.T.: 12.316 min
Delta R.T.: 0.000 min
Response: 8797407451
Conc: 483.04 ng/ml



#16 DCPA

R.T.: 11.437 min
Delta R.T.: 0.000 min
Response: 9124074634
Conc: 504.25 ng/ml



#16 DCPA

R.T.: 12.265 min
Delta R.T.: 0.000 min
Response: 7092900478
Conc: 503.52 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027583.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 14:14
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:04:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:04:23 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 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.149	7.730	1804.5E6	1362.5E6	750.000	750.000
	Target Compounds						
1) T	Dalapon	2.588	2.691	2049.5E6	2211.7E6	682.500	682.500
2) T	3,5-DICHL...	6.333	6.687	2675.8E6	1879.8E6	697.500	697.500
3) T	4-Nitroph...	6.946	7.259	968.7E6	838.0E6	682.500	682.500
5) T	DICAMBA	7.329	7.927	7414.3E6	6036.1E6	705.000	705.000
6) T	MCPP	7.507	8.029	524.9E6	409.9E6	70.500	70.500
7) T	MCPA	7.652	8.272	676.0E6	572.8E6	69.750	69.750
8) T	DICHLORPROP	8.019	8.638	1789.8E6	1457.8E6	705.000	705.000
9) T	2,4-D	8.243	8.966	1905.1E6	1624.0E6	705.000	705.000
10) T	Pentachlo...	8.532	9.492	27987.6E6	22810.1E6	712.500	712.500
11) T	2,4,5-TP ...	9.102	9.866	10611.1E6	9046.7E6	712.500	712.500
12) T	2,4,5-T	9.389	10.283	10345.5E6	8915.8E6	712.500	712.500
13) T	2,4-DB	9.955	10.848	1445.9E6	1109.8E6	712.500	712.500
14) T	DINOSEB	11.137	11.226	7590.7E6	5664.0E6	705.000	705.000
15) T	Picloram	10.955	12.316	13355.5E6	12795.4E6	712.500	712.500
16) T	DCPA	11.437	12.266	12856.3E6	9985.4E6	720.000	720.000

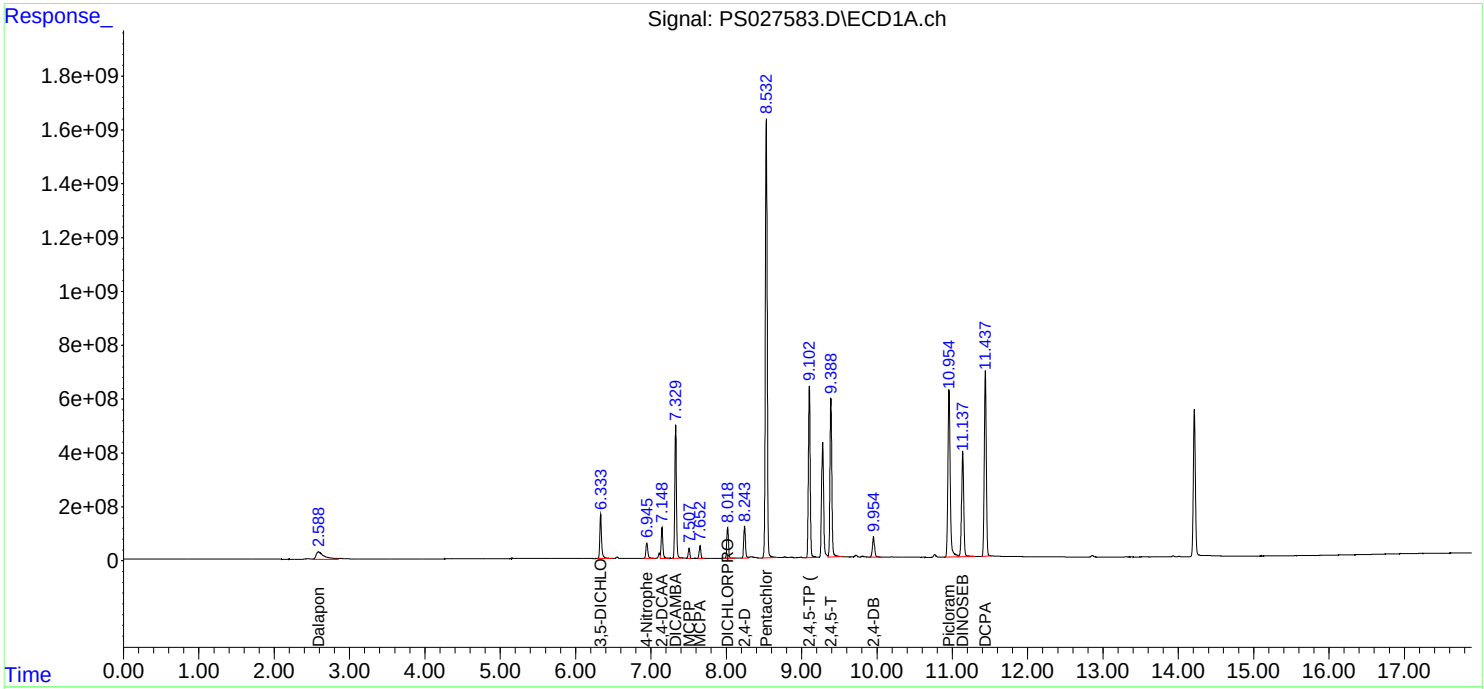
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

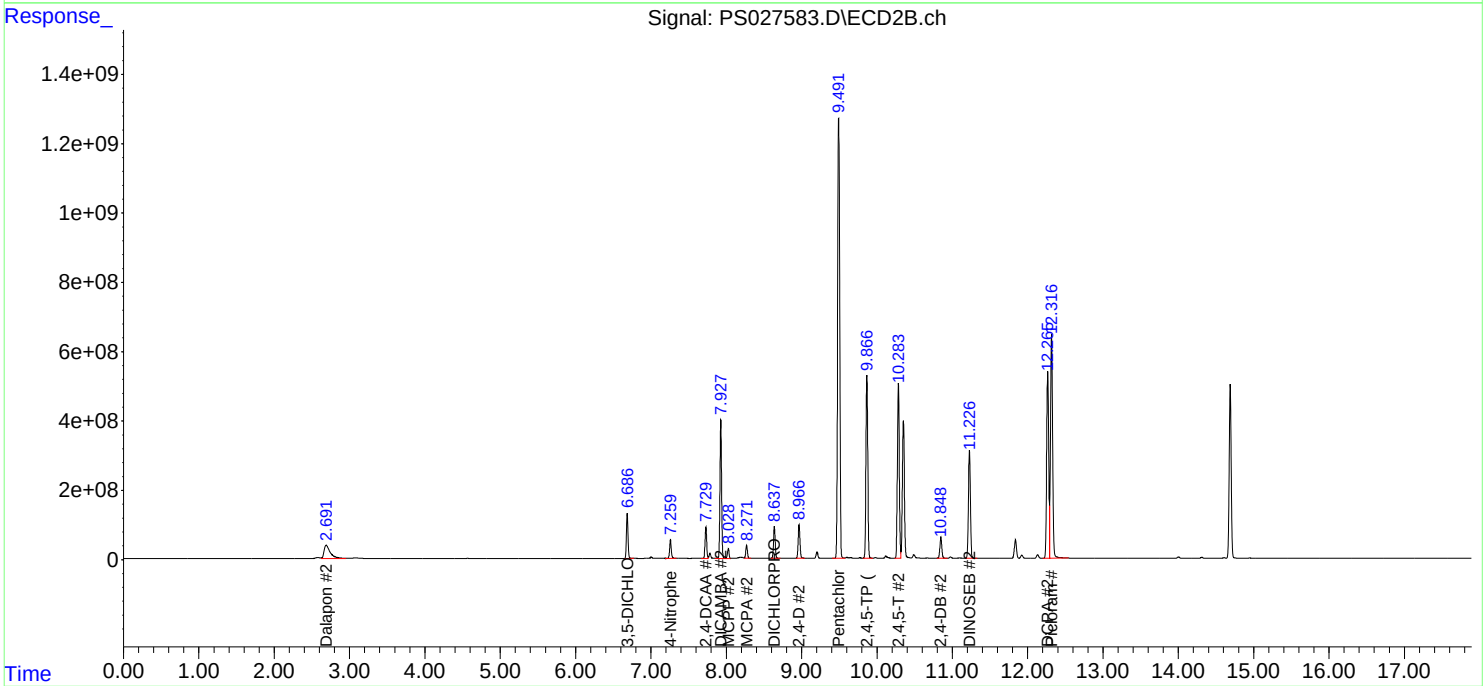
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027583.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 14:14
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

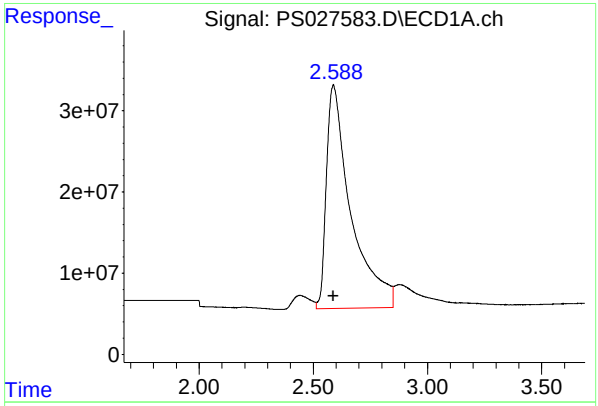
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:04:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:04:23 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



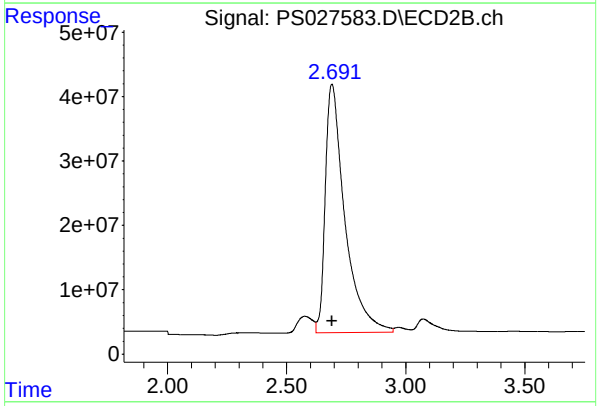




#1 Dalapon

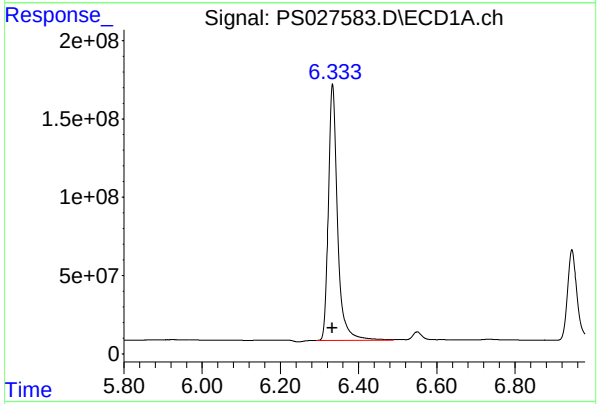
R.T.: 2.588 min
Delta R.T.: 0.000 min
Response: 2049548803
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



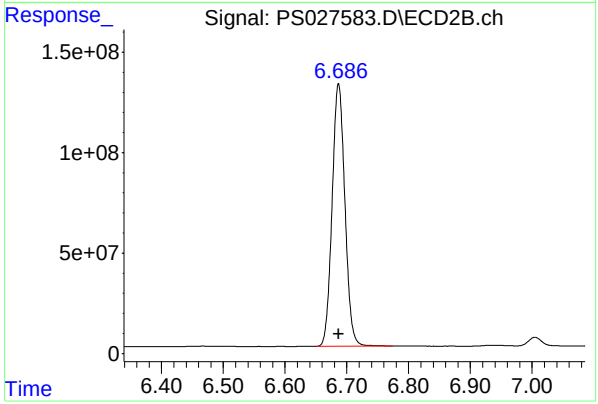
#1 Dalapon

R.T.: 2.691 min
Delta R.T.: 0.000 min
Response: 2211663379
Conc: 682.50 ng/ml



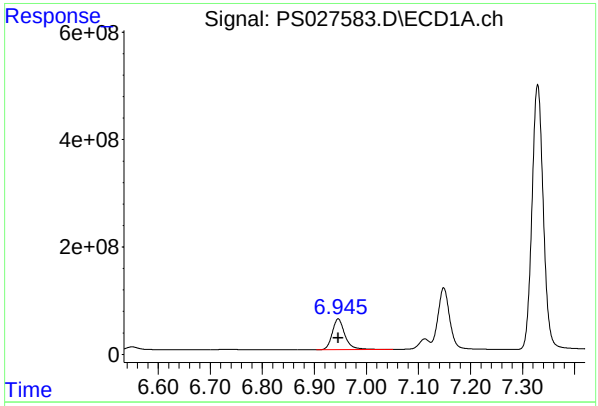
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.333 min
Delta R.T.: 0.000 min
Response: 2675811355
Conc: 697.50 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

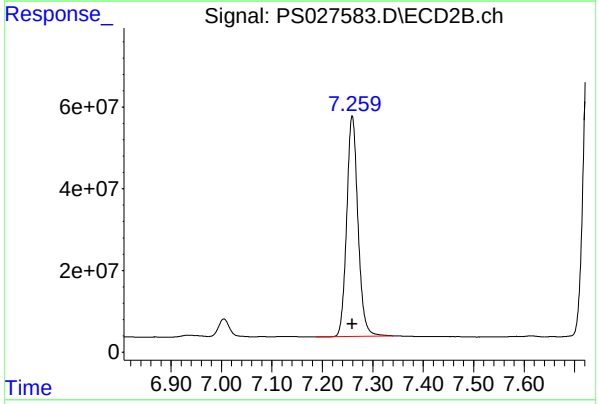
R.T.: 6.687 min
Delta R.T.: 0.000 min
Response: 1879814514
Conc: 697.50 ng/ml



#3 4-Nitrophenol

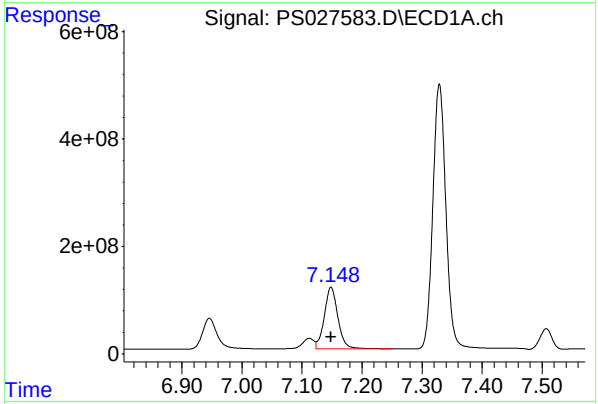
R.T.: 6.946 min
Delta R.T.: 0.000 mi
Response: 968713521
Conc: 682.50 ng/m

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



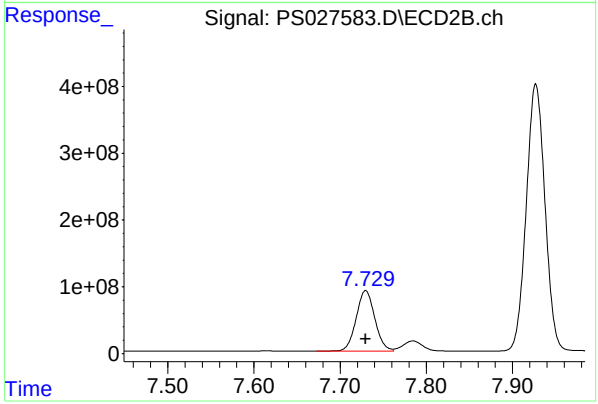
#3 4-Nitrophenol

R.T.: 7.259 min
Delta R.T.: 0.000 min
Response: 838031120
Conc: 682.50 ng/ml



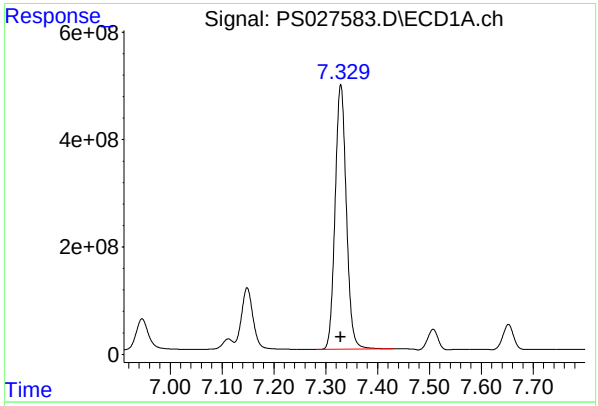
#4 2,4-DCAA

R.T.: 7.149 min
Delta R.T.: 0.000 min
Response: 1804517006
Conc: 750.00 ng/ml



#4 2,4-DCAA

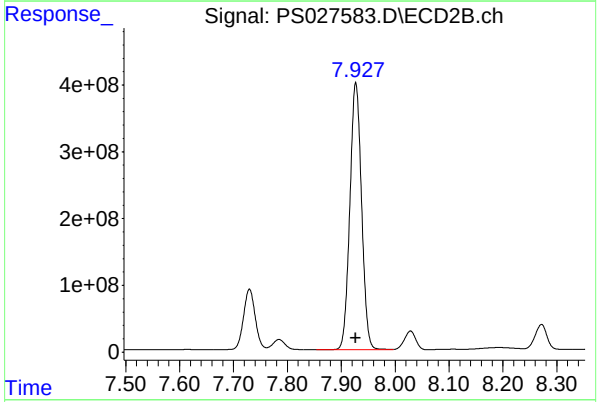
R.T.: 7.730 min
Delta R.T.: 0.000 min
Response: 1362525713
Conc: 750.00 ng/ml



#5 DICAMBA

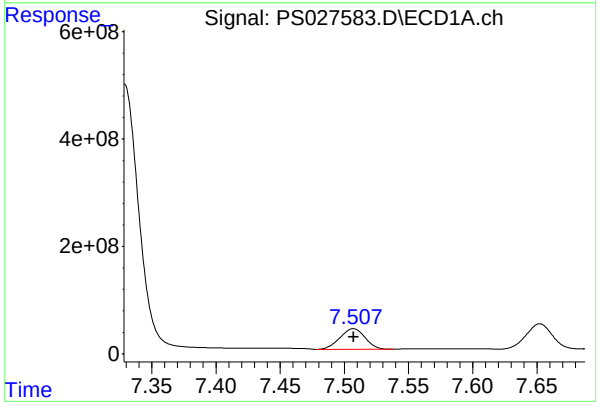
R.T.: 7.329 min
Delta R.T.: 0.000 min
Response: 7414270441
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



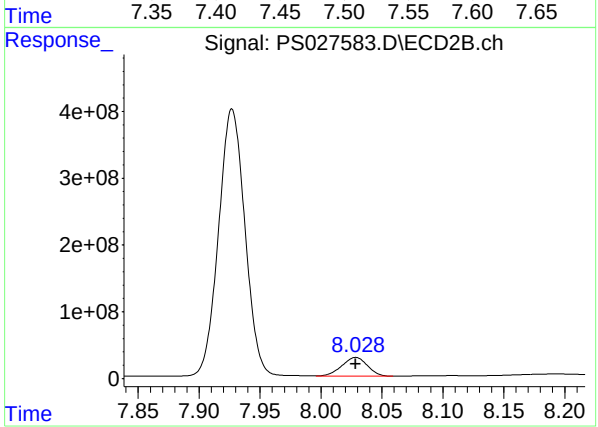
#5 DICAMBA

R.T.: 7.927 min
Delta R.T.: 0.000 min
Response: 6036078260
Conc: 705.00 ng/ml



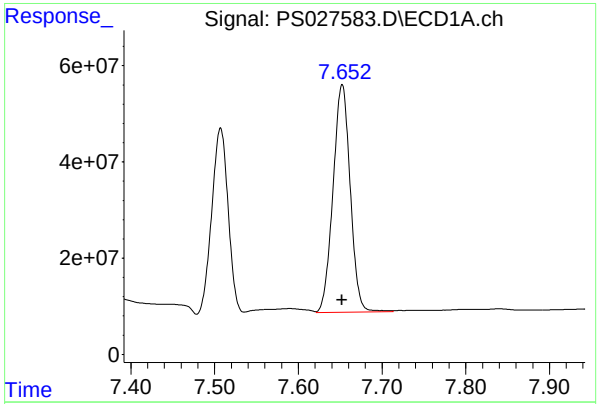
#6 MCPP

R.T.: 7.507 min
Delta R.T.: 0.000 min
Response: 524885626
Conc: 70.50 ug/ml



#6 MCPP

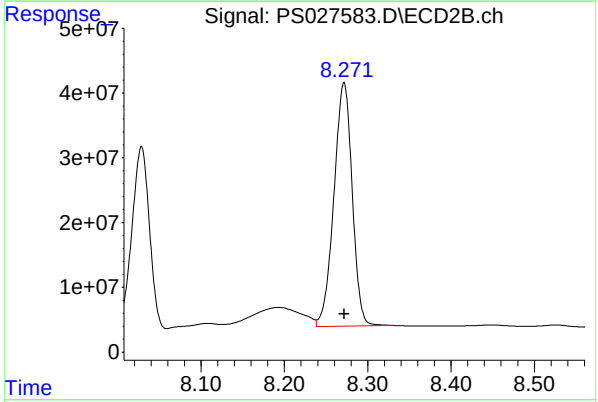
R.T.: 8.029 min
Delta R.T.: 0.000 min
Response: 409914025
Conc: 70.50 ug/ml



#7 MCPA

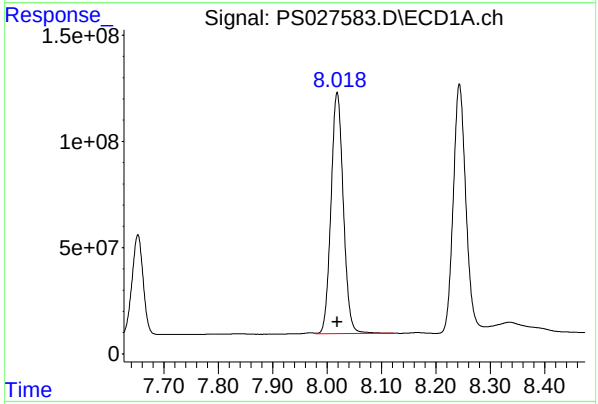
R.T.: 7.652 min
Delta R.T.: 0.000 min
Response: 675987731
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



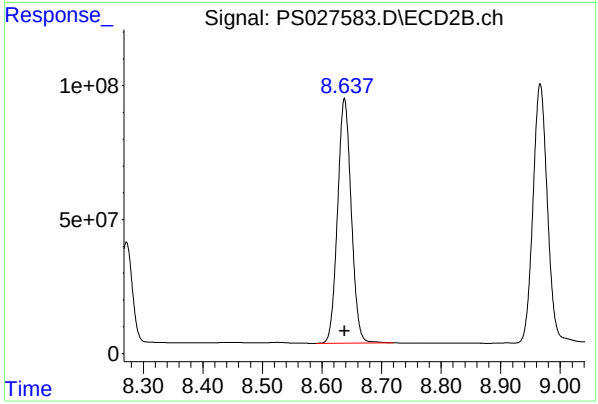
#7 MCPA

R.T.: 8.272 min
Delta R.T.: 0.000 min
Response: 572837943
Conc: 69.75 ug/ml



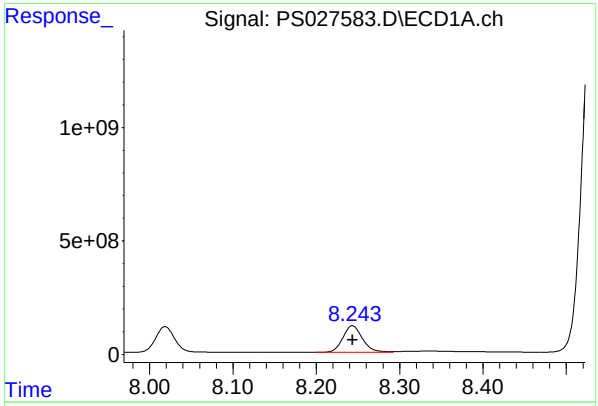
#8 DICHLORPROP

R.T.: 8.019 min
Delta R.T.: 0.000 min
Response: 1789758282
Conc: 705.00 ng/ml



#8 DICHLORPROP

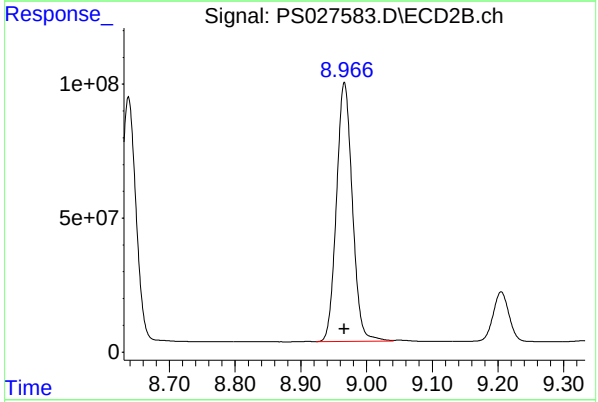
R.T.: 8.638 min
Delta R.T.: 0.000 min
Response: 1457767696
Conc: 705.00 ng/ml



#9 2,4-D

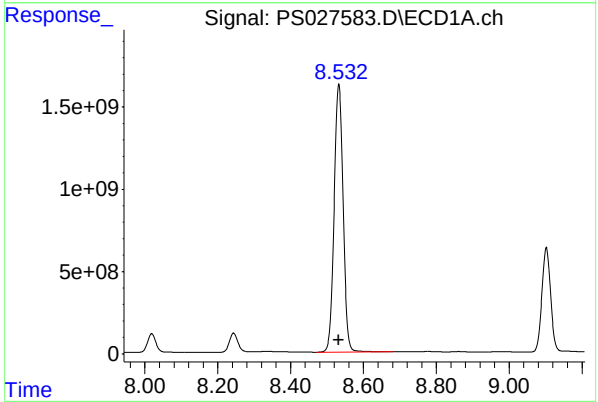
R.T.: 8.243 min
Delta R.T.: 0.000 min
Response: 1905132137
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



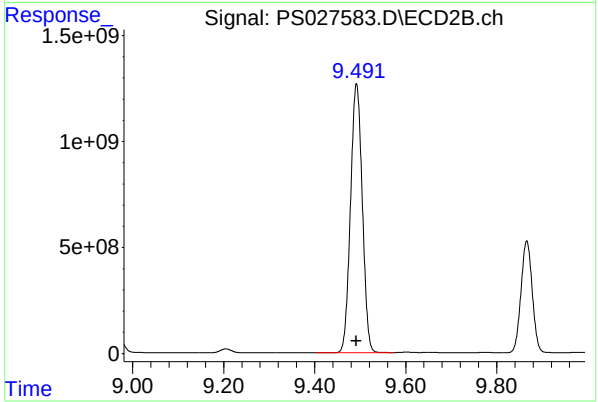
#9 2,4-D

R.T.: 8.966 min
Delta R.T.: 0.000 min
Response: 1623954773
Conc: 705.00 ng/ml



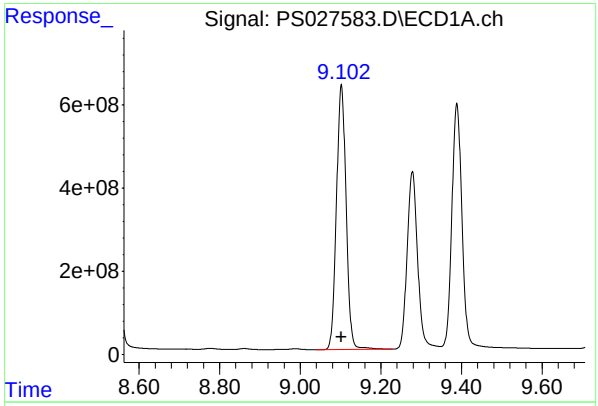
#10 Pentachlorophenol

R.T.: 8.532 min
Delta R.T.: 0.000 min
Response: 27987555513
Conc: 712.50 ng/ml



#10 Pentachlorophenol

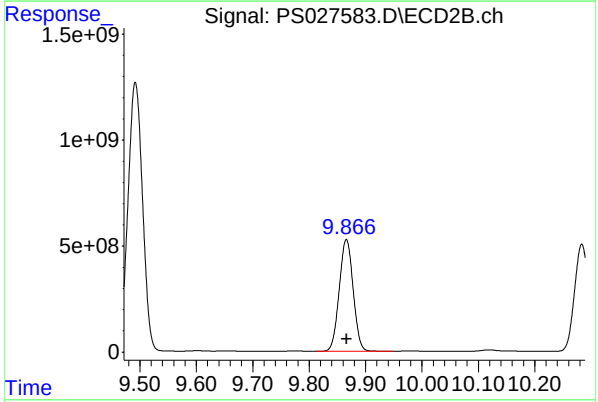
R.T.: 9.492 min
Delta R.T.: 0.000 min
Response: 22810149392
Conc: 712.50 ng/ml



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

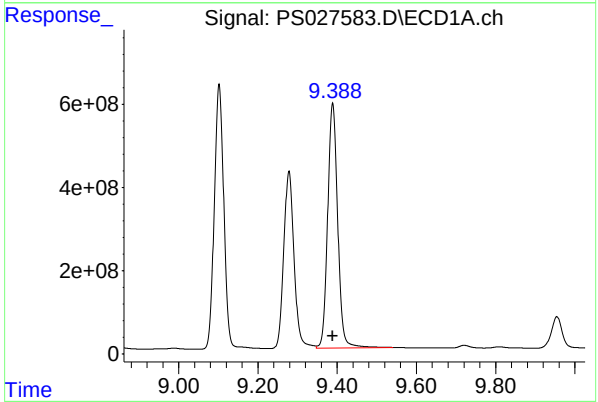
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 10611129505
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



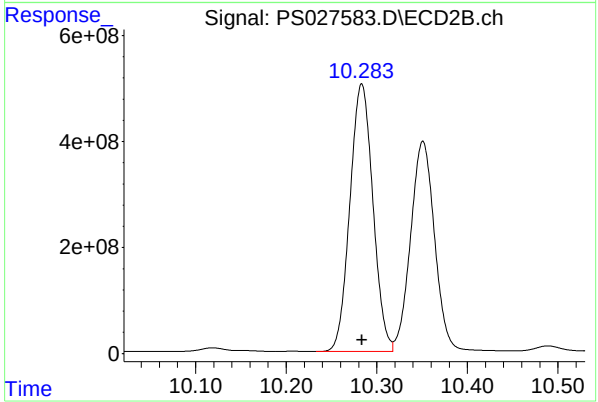
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: 0.000 min
Response: 9046711072
Conc: 712.50 ng/ml



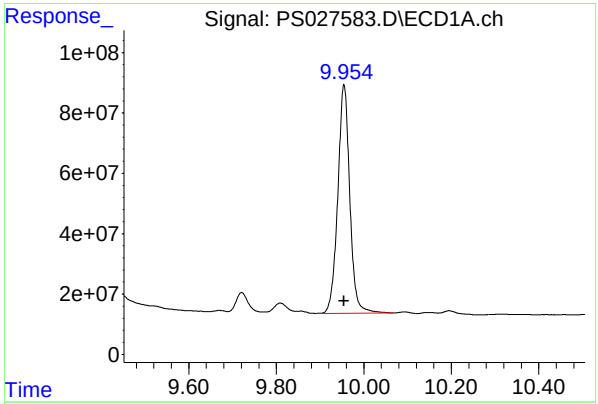
#12 2,4,5-T

R.T.: 9.389 min
Delta R.T.: 0.000 min
Response: 10345461415
Conc: 712.50 ng/ml



#12 2,4,5-T

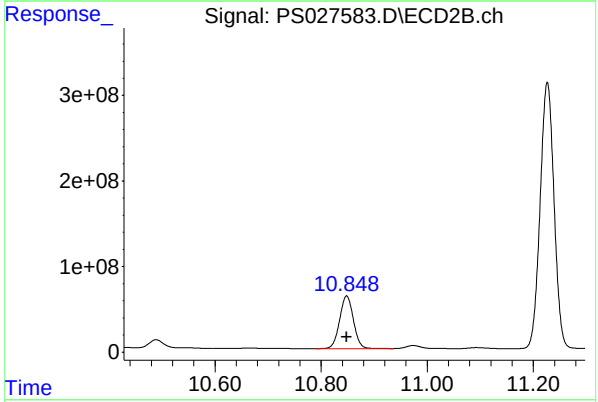
R.T.: 10.283 min
Delta R.T.: 0.000 min
Response: 8915787348
Conc: 712.50 ng/ml



#13 2,4-DB

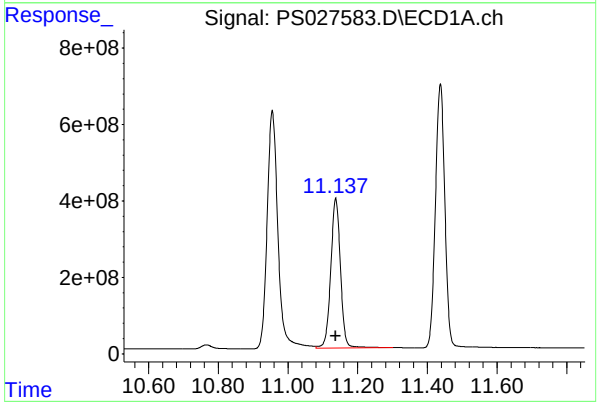
R.T.: 9.955 min
Delta R.T.: 0.000 min
Response: 1445904270
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



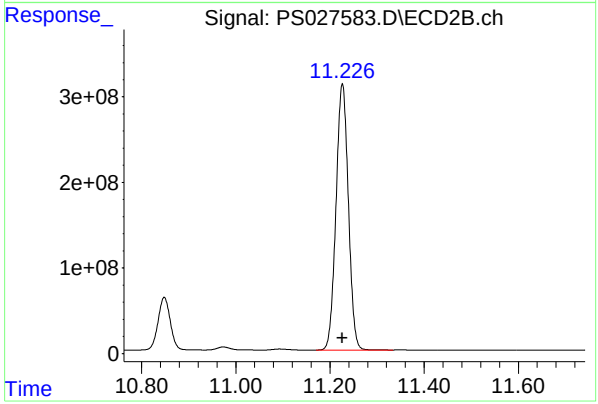
#13 2,4-DB

R.T.: 10.848 min
Delta R.T.: 0.000 min
Response: 1109791400
Conc: 712.50 ng/ml



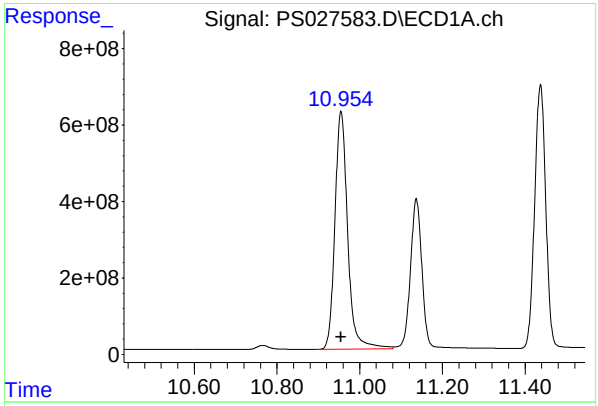
#14 DINOSEB

R.T.: 11.137 min
Delta R.T.: 0.000 min
Response: 7590670583
Conc: 705.00 ng/ml



#14 DINOSEB

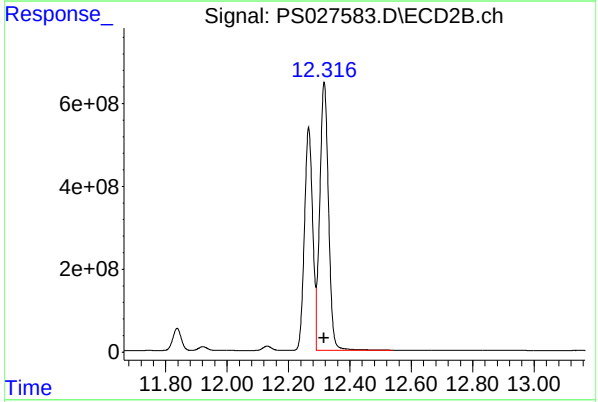
R.T.: 11.226 min
Delta R.T.: 0.000 min
Response: 5664043903
Conc: 705.00 ng/ml



#15 Picloram

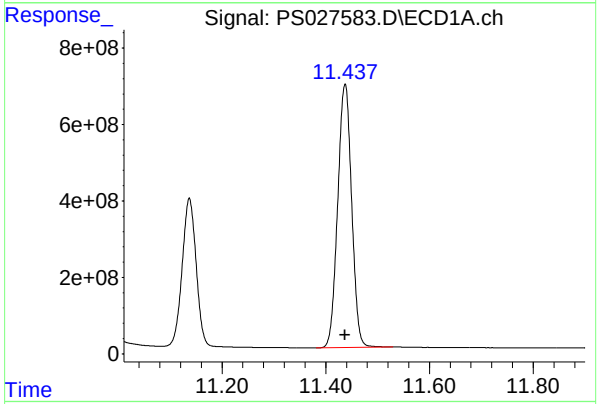
R.T.: 10.955 min
Delta R.T.: 0.000 min
Response: 13355462248
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



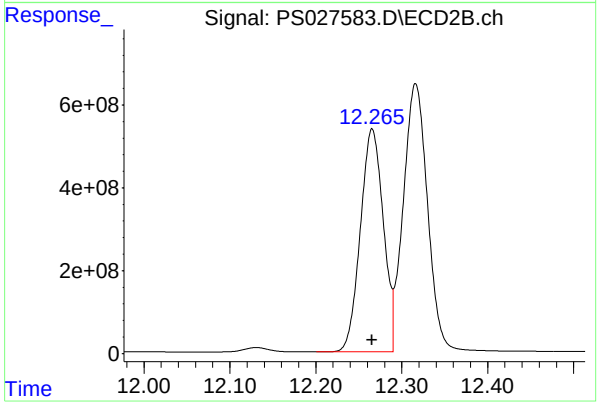
#15 Picloram

R.T.: 12.316 min
Delta R.T.: 0.000 min
Response: 12795401876
Conc: 712.50 ng/ml



#16 DCPA

R.T.: 11.437 min
Delta R.T.: 0.000 min
Response: 12856329184
Conc: 720.00 ng/ml



#16 DCPA

R.T.: 12.266 min
Delta R.T.: 0.000 min
Response: 9985394594
Conc: 720.00 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027584.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 14:38
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:06:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:04:23 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 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.148	7.730	2343.3E6	1785.5E6	986.796	991.331
	Target Compounds						
1) T	Dalapon	2.586	2.689	2740.0E6	2901.3E6	911.201	902.593
2) T	3,5-DICHL...	6.333	6.687	3472.0E6	2481.2E6	917.349	925.297
3) T	4-Nitroph...	6.944	7.259	1286.4E6	1126.5E6	908.141	913.689
5) T	DICAMBA	7.328	7.928	9696.7E6	7956.7E6	930.929	934.633
6) T	MCPP	7.508	8.031	713.9E6	552.8E6	94.937	94.531
7) T	MCPA	7.654	8.274	904.3E6	755.7E6	93.152	92.505
8) T	DICHLORPROP	8.018	8.638	2324.8E6	1898.1E6	927.727	928.833
9) T	2,4-D	8.243	8.966	2483.1E6	2126.7E6	929.320	931.552
10) T	Pentachlo...	8.533	9.493	36196.8E6	29377.3E6	935.527	933.536
11) T	2,4,5-TP ...	9.102	9.866	13808.6E6	11823.7E6	938.460	940.509
12) T	2,4,5-T	9.389	10.284	13488.0E6	11714.1E6	939.345	943.014
13) T	2,4-DB	9.954	10.848	1927.0E6	1474.8E6	949.783	948.403
14) T	DINOSEB	11.138	11.226	9945.5E6	7510.3E6	931.784	937.393
15) T	Picloram	10.955	12.316	17970.1E6	17250.7E6	954.322	955.264
16) T	DCPA	11.436	12.266	16722.3E6	13069.9E6	948.109	951.125

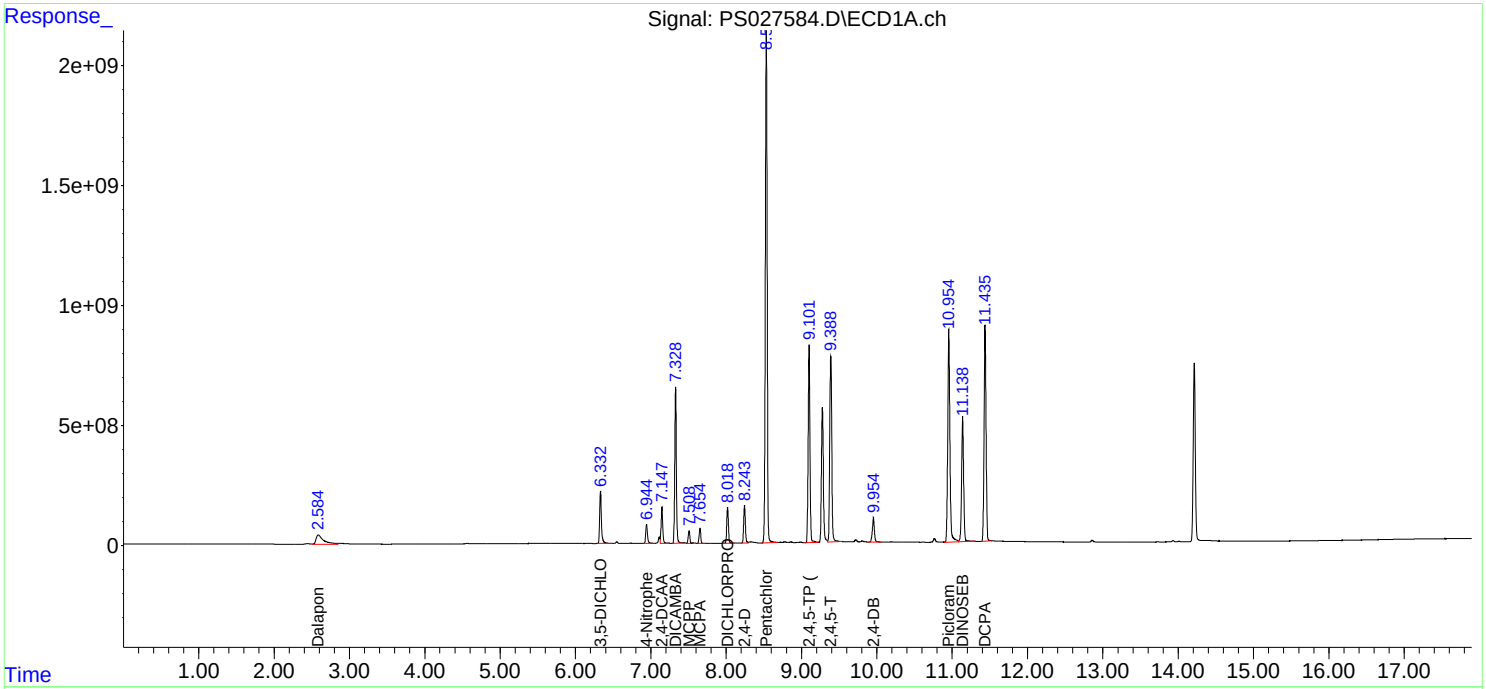
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

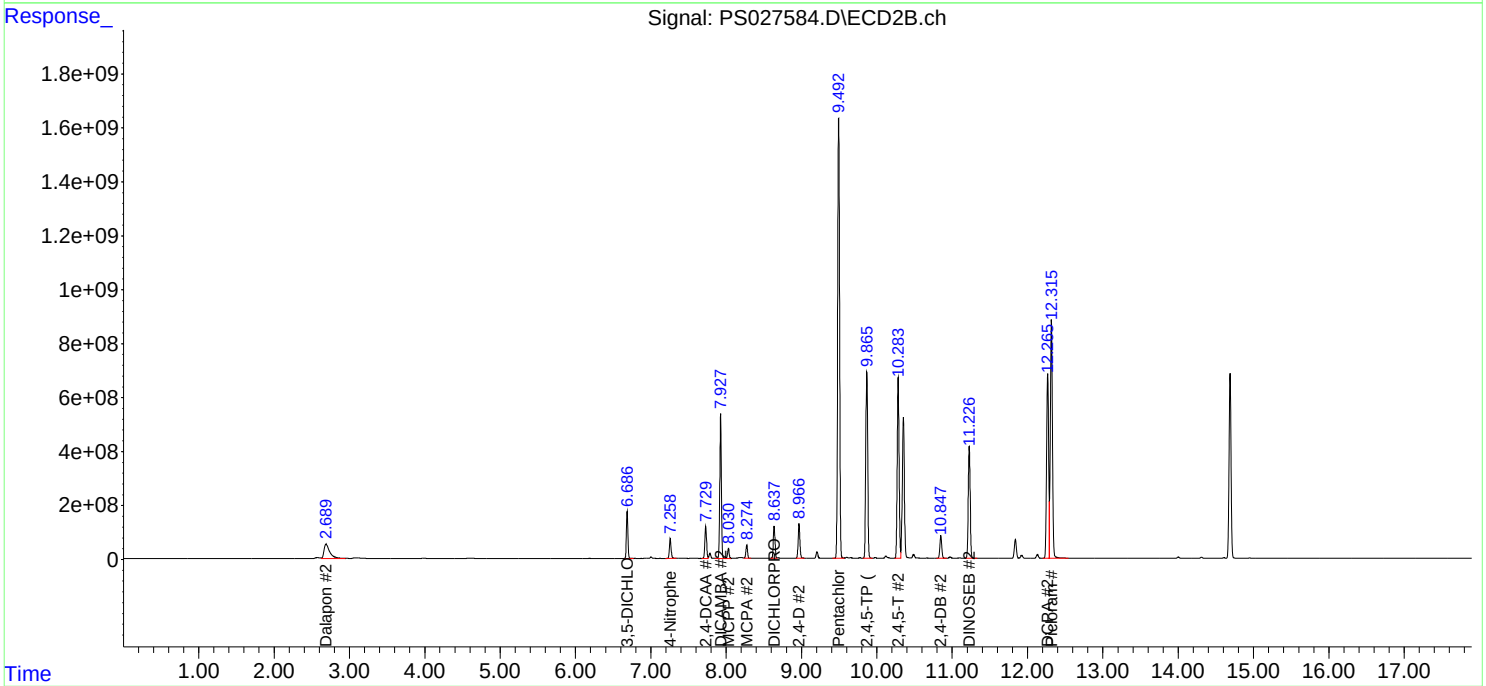
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027584.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 14:38
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

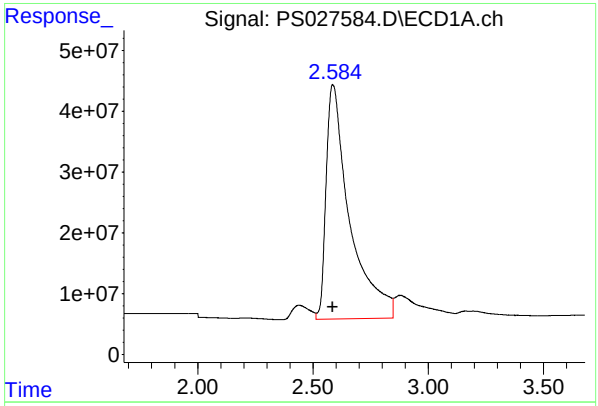
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:06:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:04:23 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



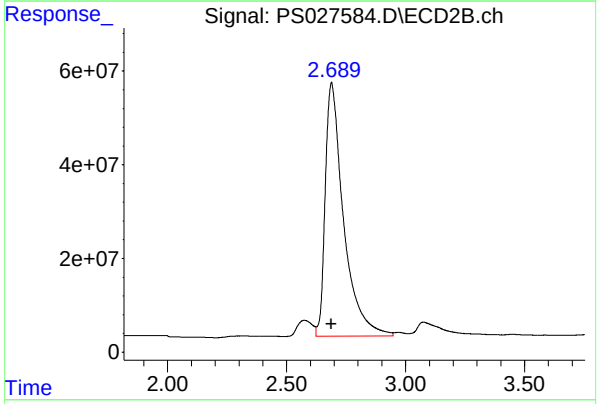




#1 Dalapon

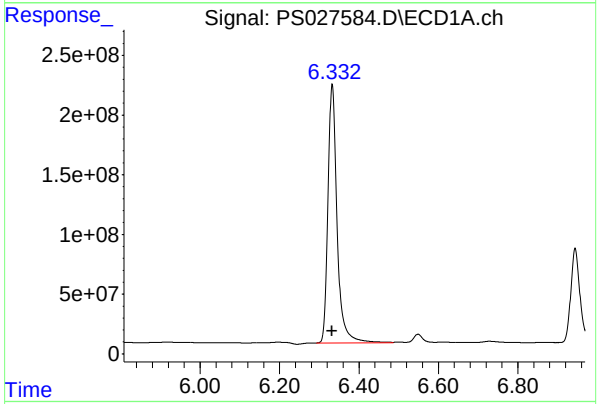
R.T.: 2.586 min
Delta R.T.: 0.000 min
Response: 2739952127
Conc: 911.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



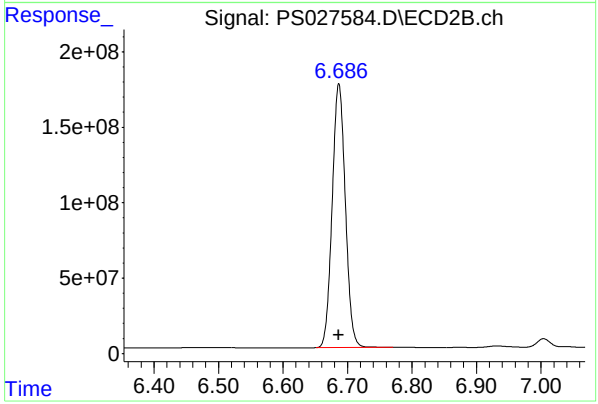
#1 Dalapon

R.T.: 2.689 min
Delta R.T.: 0.000 min
Response: 2901265016
Conc: 902.59 ng/ml



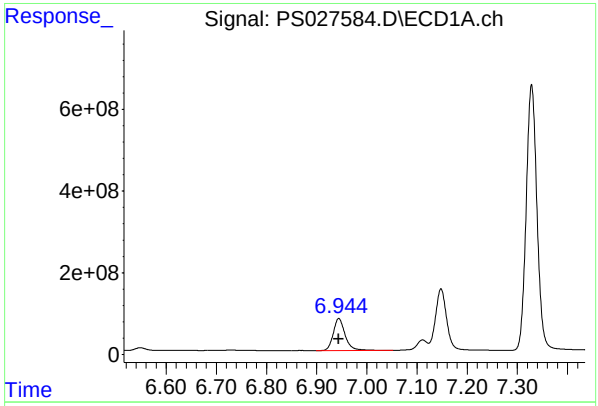
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.333 min
Delta R.T.: 0.000 min
Response: 3471985127
Conc: 917.35 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

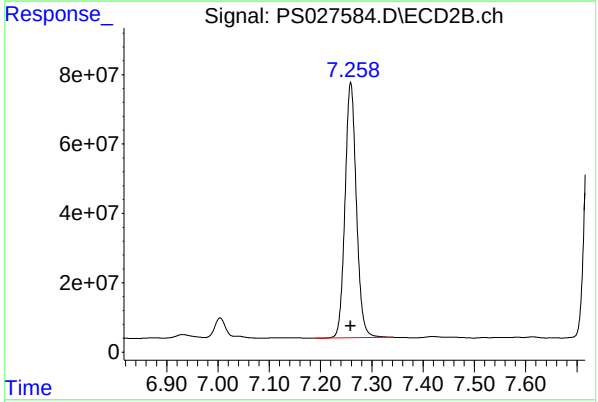
R.T.: 6.687 min
Delta R.T.: 0.000 min
Response: 2481197656
Conc: 925.30 ng/ml



#3 4-Nitrophenol

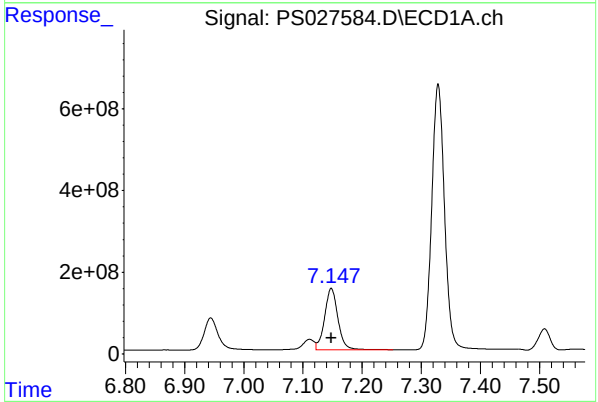
R.T.: 6.944 min
Delta R.T.: 0.000 min
Response: 1286350342
Conc: 908.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



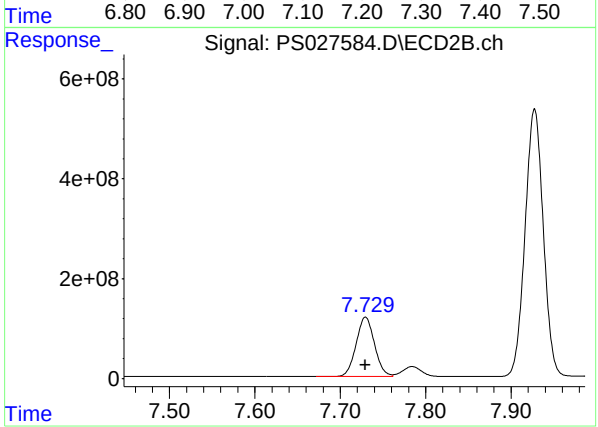
#3 4-Nitrophenol

R.T.: 7.259 min
Delta R.T.: 0.000 min
Response: 1126471651
Conc: 913.69 ng/ml



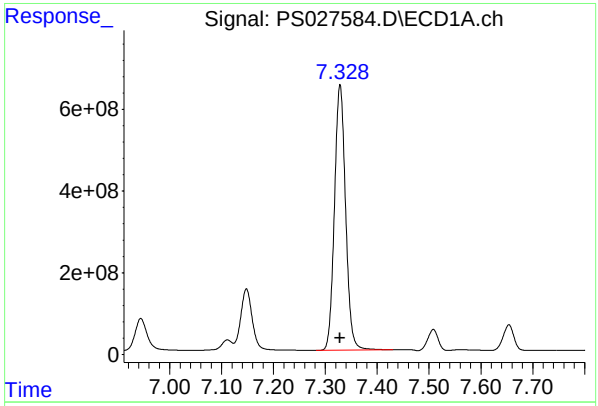
#4 2,4-DCAA

R.T.: 7.148 min
Delta R.T.: 0.000 min
Response: 2343312136
Conc: 986.80 ng/ml



#4 2,4-DCAA

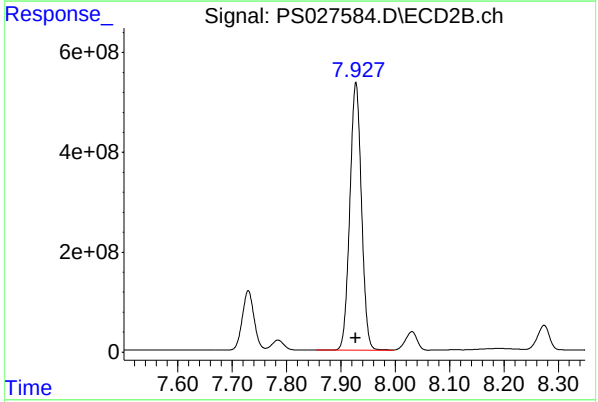
R.T.: 7.730 min
Delta R.T.: 0.000 min
Response: 1785473656
Conc: 991.33 ng/ml



#5 DICAMBA

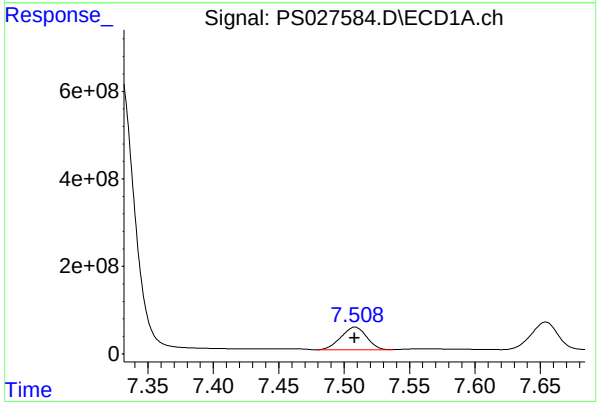
R.T.: 7.328 min
Delta R.T.: 0.000 min
Response: 9696733022
Conc: 930.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



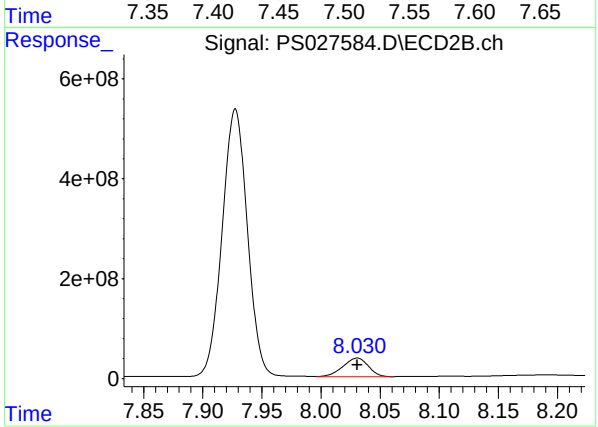
#5 DICAMBA

R.T.: 7.928 min
Delta R.T.: 0.000 min
Response: 7956718671
Conc: 934.63 ng/ml



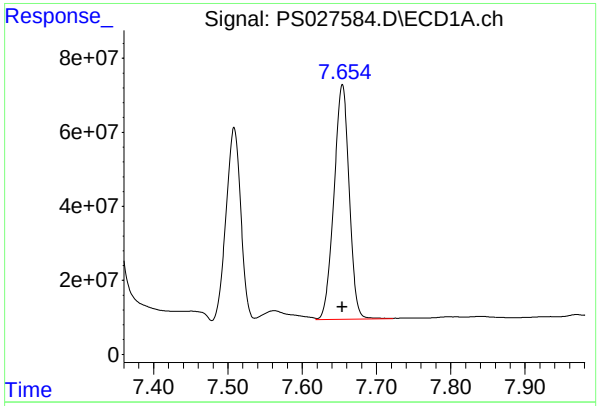
#6 MCPP

R.T.: 7.508 min
Delta R.T.: 0.000 min
Response: 713937360
Conc: 94.94 ug/ml



#6 MCPP

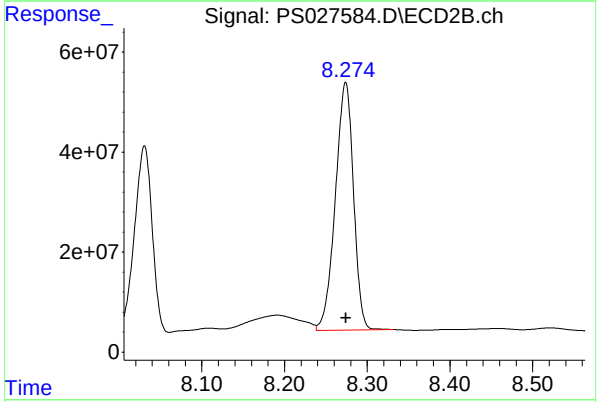
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 552756140
Conc: 94.53 ug/ml



#7 MCPA

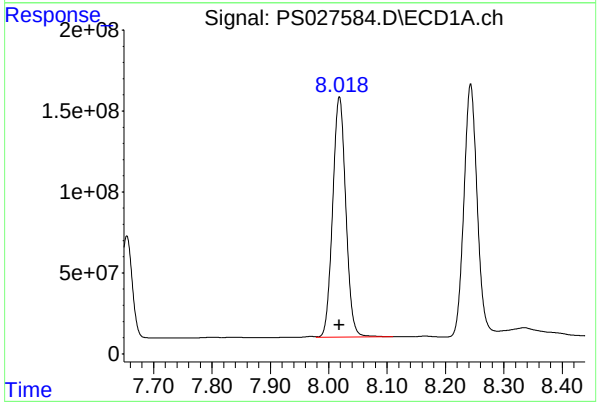
R.T.: 7.654 min
Delta R.T.: 0.000 min
Response: 904270372
Conc: 93.15 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



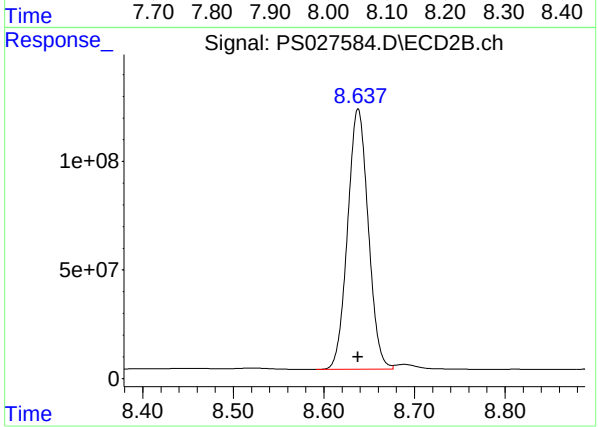
#7 MCPA

R.T.: 8.274 min
Delta R.T.: 0.000 min
Response: 755700631
Conc: 92.51 ug/ml



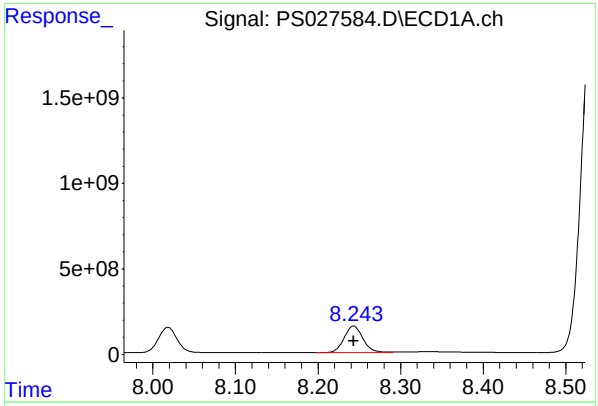
#8 DICHLORPROP

R.T.: 8.018 min
Delta R.T.: 0.000 min
Response: 2324835027
Conc: 927.73 ng/ml



#8 DICHLORPROP

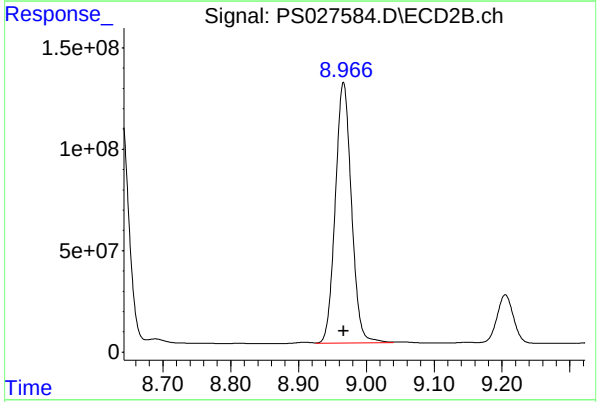
R.T.: 8.638 min
Delta R.T.: 0.000 min
Response: 1898051163
Conc: 928.83 ng/ml



#9 2,4-D

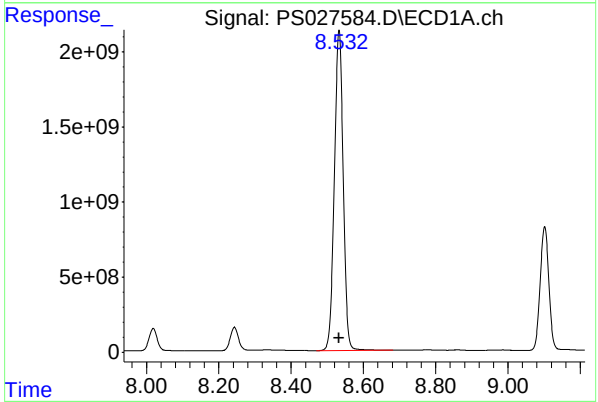
R.T.: 8.243 min
Delta R.T.: 0.000 min
Response: 2483101622
Conc: 929.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



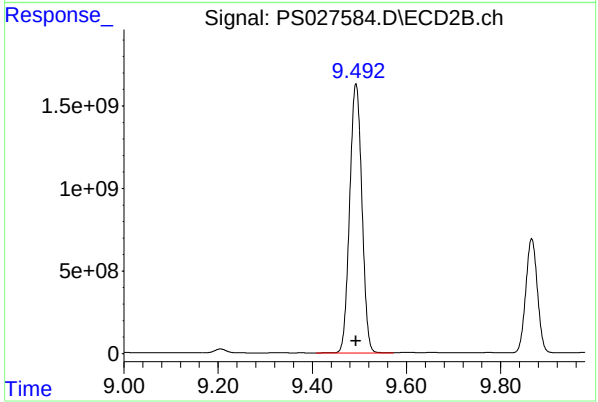
#9 2,4-D

R.T.: 8.966 min
Delta R.T.: 0.000 min
Response: 2126698423
Conc: 931.55 ng/ml



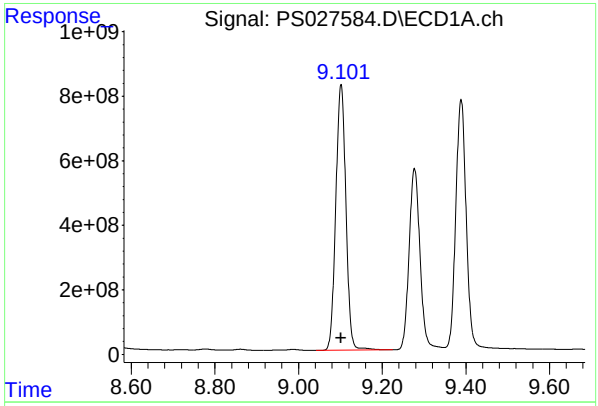
#10 Pentachlorophenol

R.T.: 8.533 min
Delta R.T.: 0.000 min
Response: 36196813824
Conc: 935.53 ng/ml



#10 Pentachlorophenol

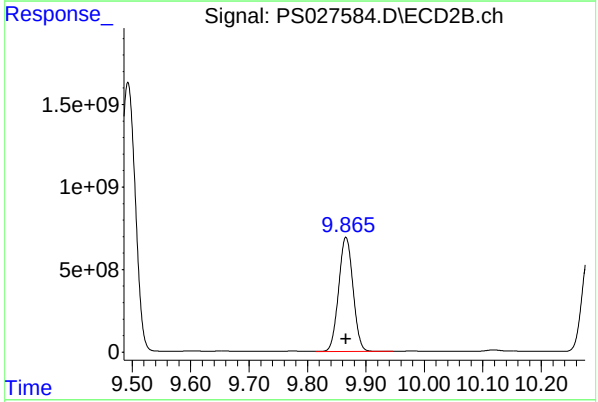
R.T.: 9.493 min
Delta R.T.: 0.000 min
Response: 29377300558
Conc: 933.54 ng/ml



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

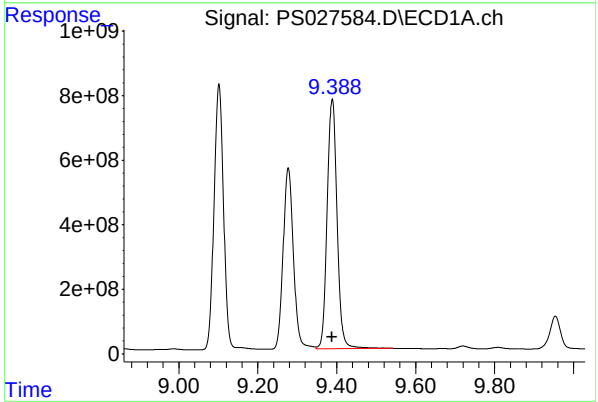
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 13808563733
Conc: 938.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



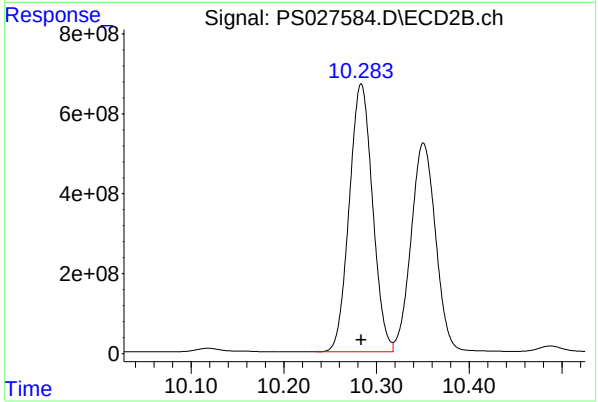
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: 0.000 min
Response: 11823651265
Conc: 940.51 ng/ml



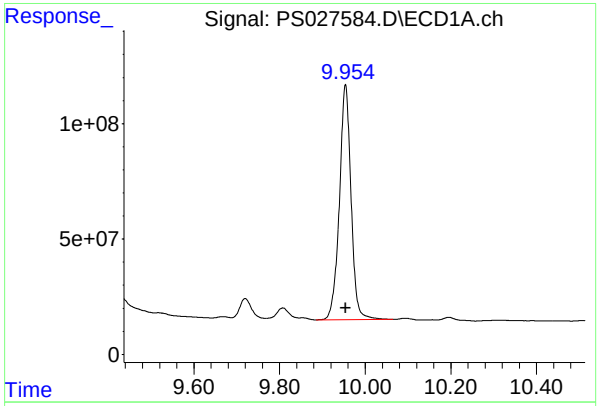
#12 2,4,5-T

R.T.: 9.389 min
Delta R.T.: 0.000 min
Response: 13487952875
Conc: 939.34 ng/ml



#12 2,4,5-T

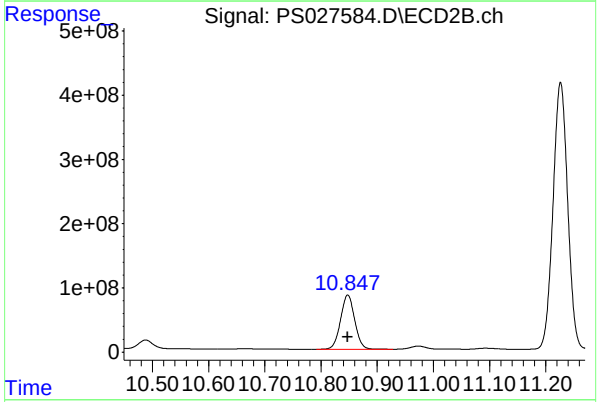
R.T.: 10.284 min
Delta R.T.: 0.000 min
Response: 11714144933
Conc: 943.01 ng/ml



#13 2,4-DB

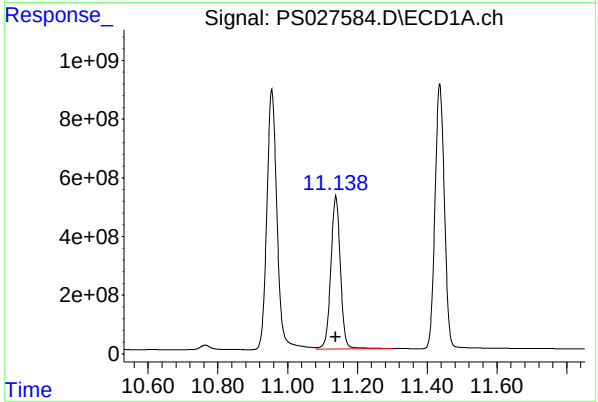
R.T.: 9.954 min
Delta R.T.: 0.000 mi
Response: 1926990533
Conc: 949.78 ng/m

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



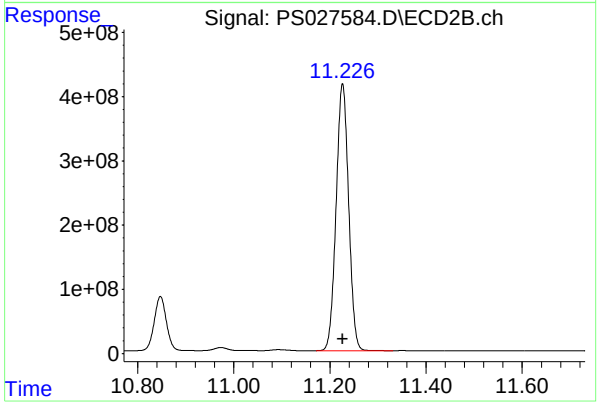
#13 2,4-DB

R.T.: 10.848 min
Delta R.T.: 0.000 min
Response: 1474754260
Conc: 948.40 ng/ml



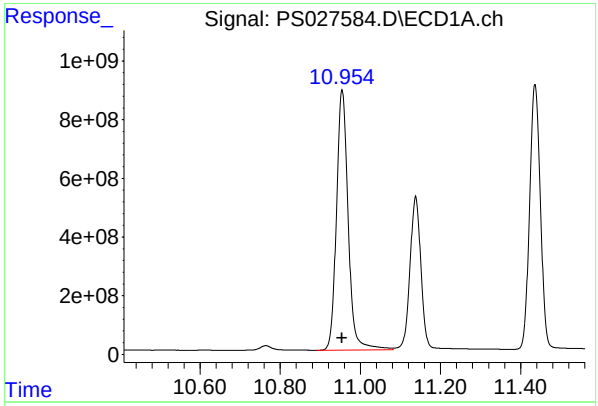
#14 DINOSEB

R.T.: 11.138 min
Delta R.T.: 0.000 min
Response: 9945511610
Conc: 931.78 ng/ml



#14 DINOSEB

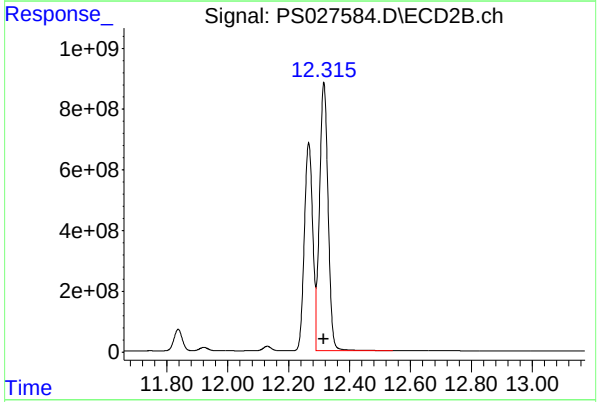
R.T.: 11.226 min
Delta R.T.: 0.000 min
Response: 7510282795
Conc: 937.39 ng/ml



#15 Picloram

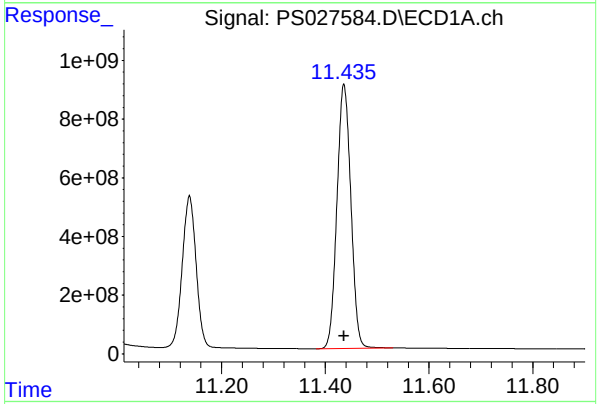
R.T.: 10.955 min
Delta R.T.: 0.000 min
Response: 17970052640
Conc: 954.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



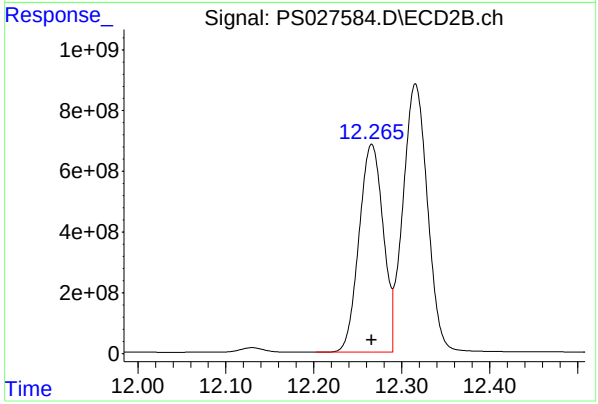
#15 Picloram

R.T.: 12.316 min
Delta R.T.: 0.000 min
Response: 17250660146
Conc: 955.26 ng/ml



#16 DCPA

R.T.: 11.436 min
Delta R.T.: 0.000 min
Response: 16722312109
Conc: 948.11 ng/ml



#16 DCPA

R.T.: 12.266 min
Delta R.T.: 0.000 min
Response: 13069936871
Conc: 951.12 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027585.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 15:03
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:21:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:21:18 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	7.148	7.730	3427.2E6	2673.9E6	1351.500	1390.949
	Target Compounds						
1) T	Dalapon	2.587	2.689	4163.1E6	4333.3E6	1354.531	1248.846
2) T	3,5-DICHL...	6.333	6.687	5091.5E6	3717.9E6	1268.049	1314.250
3) T	4-Nitroph...	6.945	7.259	1906.6E6	1716.7E6	1279.062	1332.501
5) T	DICAMBA	7.329	7.929	14334.5E6	11939.8E6	1318.118	1344.292
6) T	MCPP	7.512	8.035	1118.3E6	866.3E6	150.142	146.181
7) T	MCPA	7.658	8.279	1383.5E6	1165.2E6	137.910	135.784
8) T	DICHLORPROP	8.019	8.639	3422.3E6	2839.6E6	1269.048	1307.408
9) T	2,4-D	8.243	8.967	3652.0E6	3158.3E6	1287.209	1303.524
10) T	Pentachlo...	8.534	9.494	45764.0E6	41191.5E6	1152.560	1246.758
11) T	2,4,5-TP ...	9.102	9.867	20079.8E6	17282.4E6	1298.368	1309.310
12) T	2,4,5-T	9.389	10.285	19686.2E6	17133.2E6	1310.209	1316.433
13) T	2,4-DB	9.954	10.848	2876.2E6	2234.4E6	1351.542	1374.967
14) T	DINOSEB	11.138	11.227	14398.7E6	10890.4E6	1305.008	1327.924
15) T	Picloram	10.954	12.316	26783.5E6	25785.2E6	1376.631	1398.451
16) T	DCPA	11.437	12.266	24249.9E6	19015.6E6	1312.823	1323.953

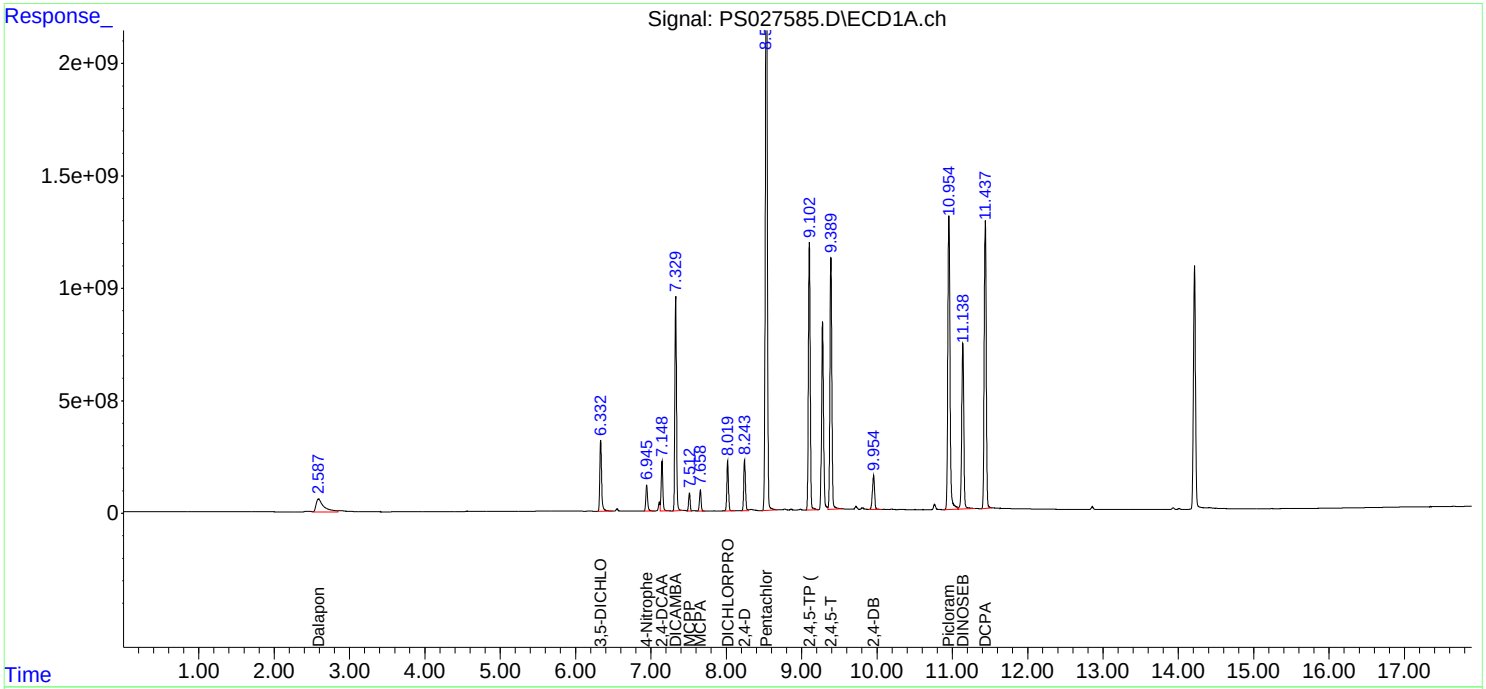
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

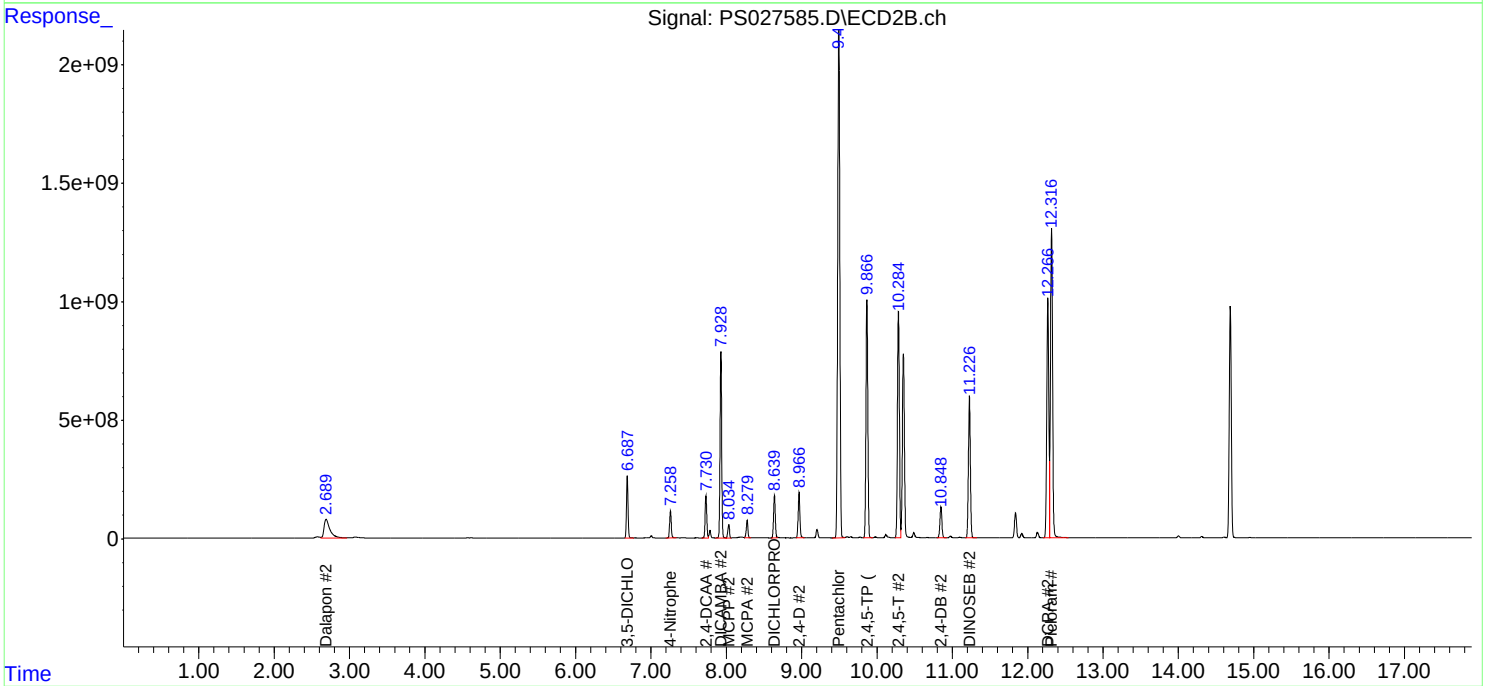
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027585.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 15:03
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

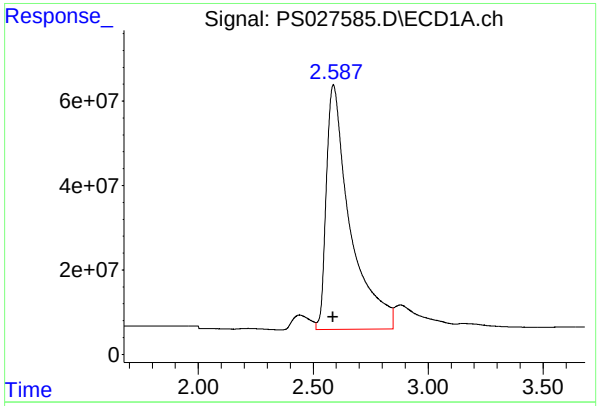
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:21:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:21:18 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



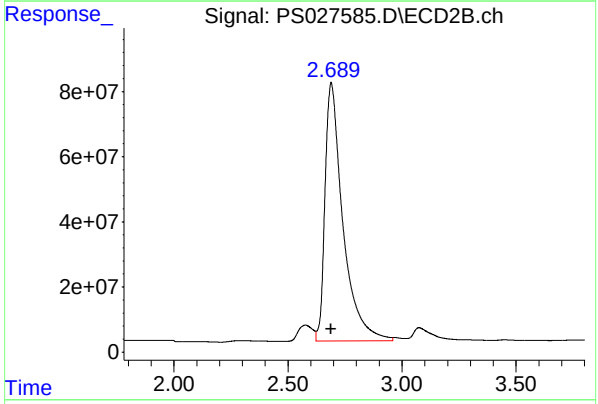




#1 Dalapon

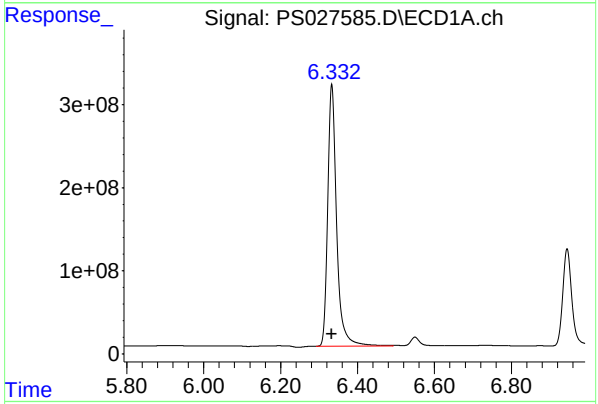
R.T.: 2.587 min
Delta R.T.: 0.000 min
Response: 4163114969
Conc: 1354.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



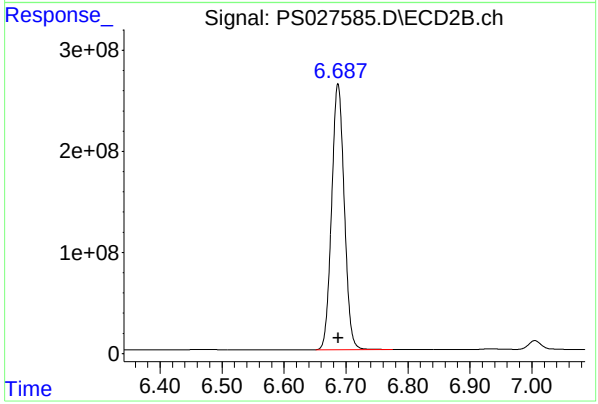
#1 Dalapon

R.T.: 2.689 min
Delta R.T.: 0.000 min
Response: 4333299304
Conc: 1248.85 ng/ml



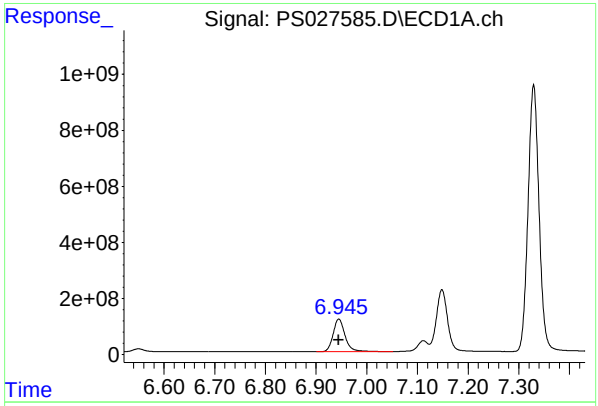
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.333 min
Delta R.T.: 0.000 min
Response: 5091544125
Conc: 1268.05 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

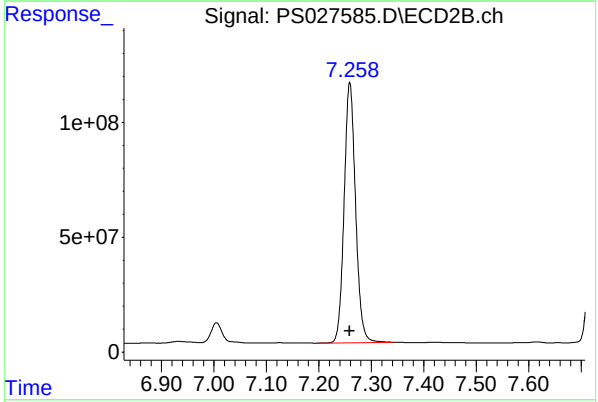
R.T.: 6.687 min
Delta R.T.: 0.000 min
Response: 3717894092
Conc: 1314.25 ng/ml



#3 4-Nitrophenol

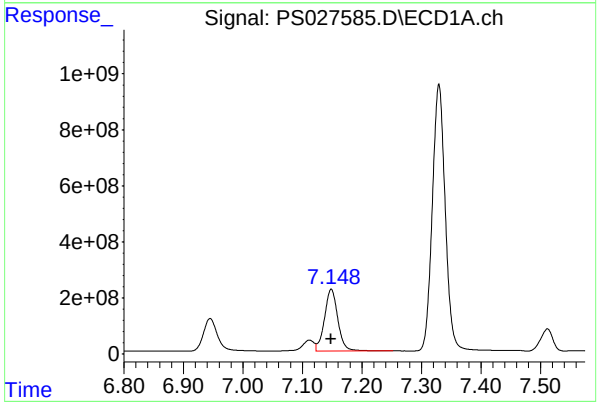
R.T.: 6.945 min
Delta R.T.: 0.000 min
Response: 1906608853
Conc: 1279.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



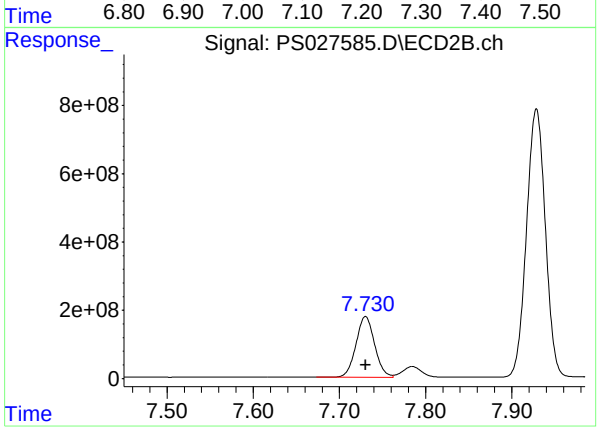
#3 4-Nitrophenol

R.T.: 7.259 min
Delta R.T.: 0.000 min
Response: 1716655721
Conc: 1332.50 ng/ml



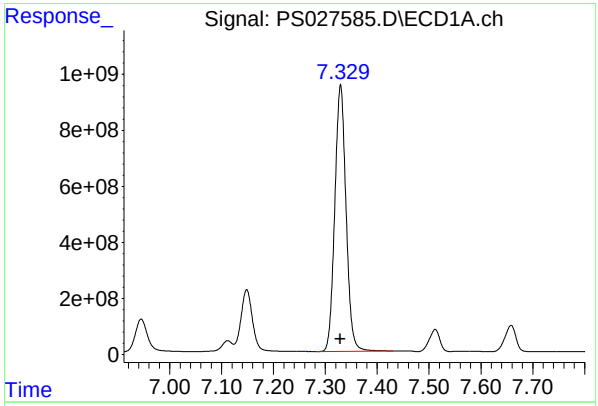
#4 2,4-DCAA

R.T.: 7.148 min
Delta R.T.: 0.000 min
Response: 3427154999
Conc: 1351.50 ng/ml



#4 2,4-DCAA

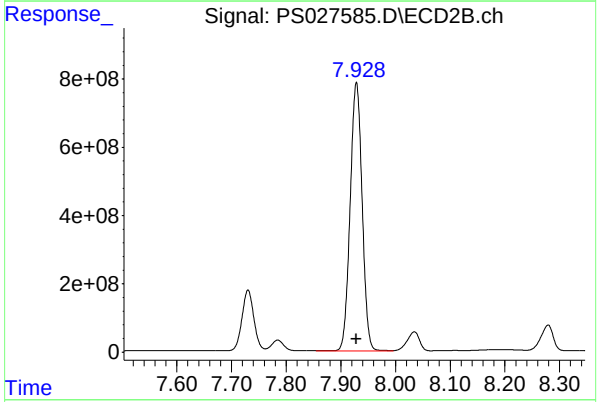
R.T.: 7.730 min
Delta R.T.: 0.000 min
Response: 2673858897
Conc: 1390.95 ng/ml



#5 DICAMBA

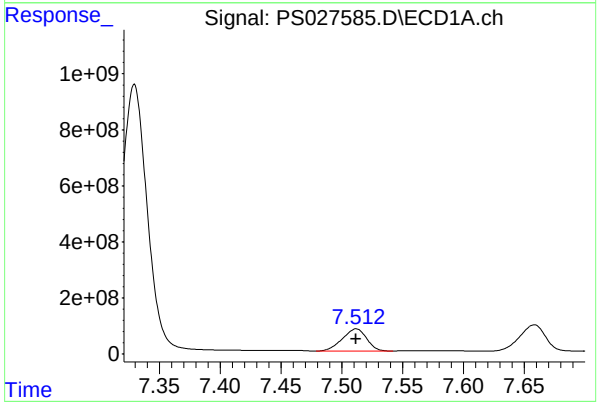
R.T.: 7.329 min
Delta R.T.: 0.000 min
Response: 14334539153
Conc: 1318.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



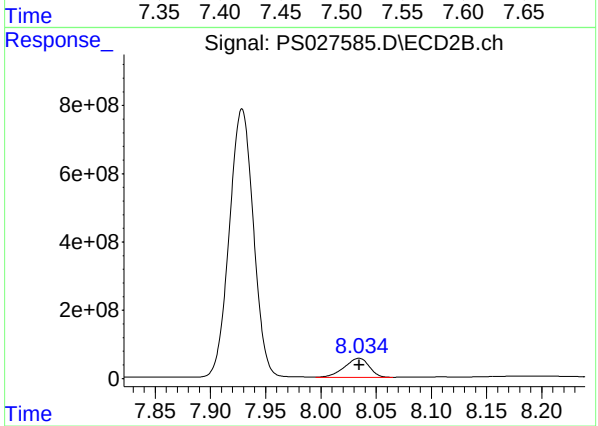
#5 DICAMBA

R.T.: 7.929 min
Delta R.T.: 0.000 min
Response: 11939832758
Conc: 1344.29 ng/ml



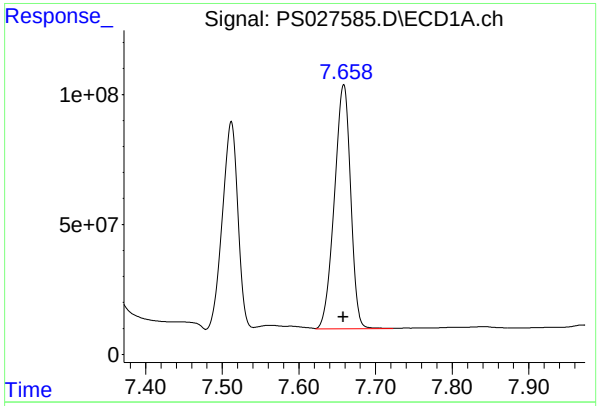
#6 MCPP

R.T.: 7.512 min
Delta R.T.: 0.000 min
Response: 1118307419
Conc: 150.14 ug/ml



#6 MCPP

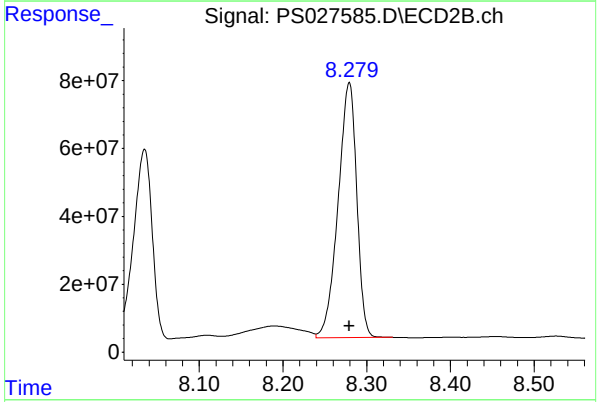
R.T.: 8.035 min
Delta R.T.: 0.000 min
Response: 866273966
Conc: 146.18 ug/ml



#7 MCPA

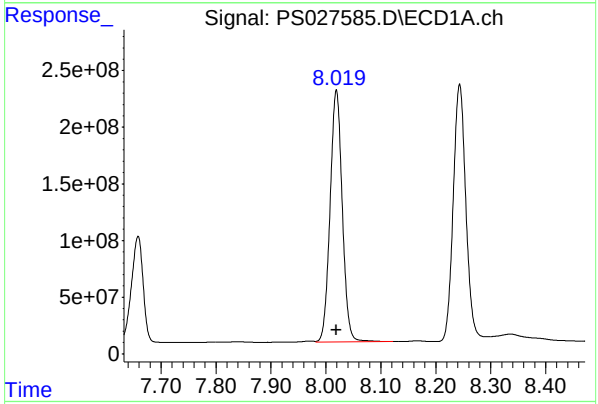
R.T.: 7.658 min
Delta R.T.: 0.000 min
Response: 1383461331
Conc: 137.91 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



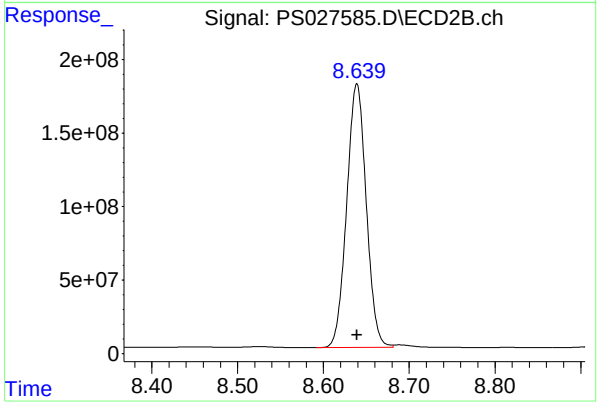
#7 MCPA

R.T.: 8.279 min
Delta R.T.: 0.000 min
Response: 1165209812
Conc: 135.78 ug/ml



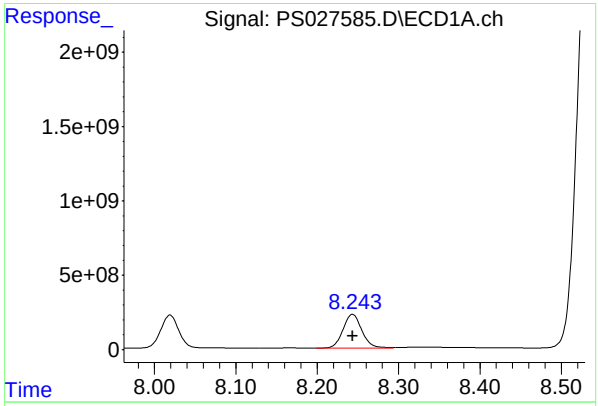
#8 DICHLORPROP

R.T.: 8.019 min
Delta R.T.: 0.000 min
Response: 3422335165
Conc: 1269.05 ng/ml



#8 DICHLORPROP

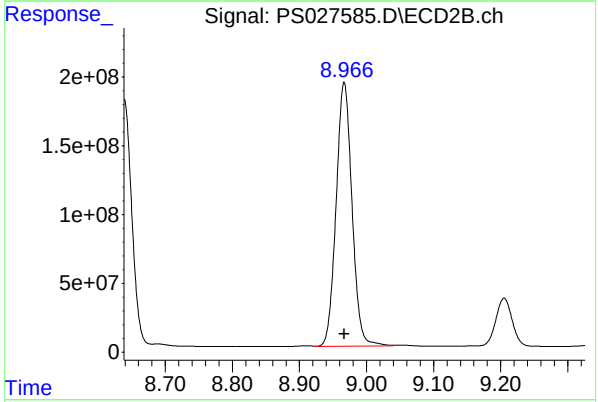
R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 2839604405
Conc: 1307.41 ng/ml



#9 2,4-D

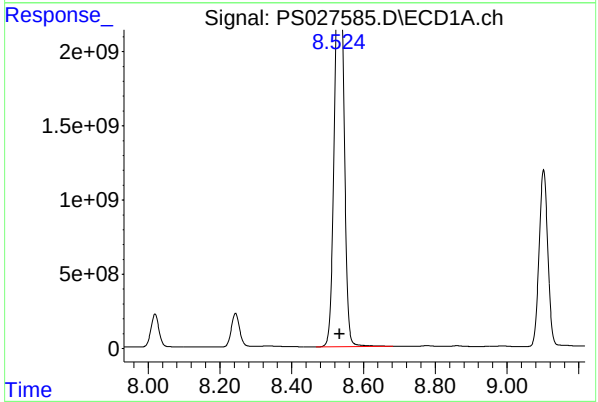
R.T.: 8.243 min
Delta R.T.: 0.000 min
Response: 3651979757
Conc: 1287.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



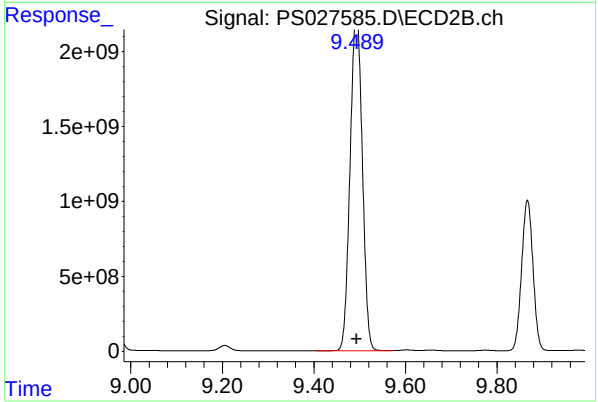
#9 2,4-D

R.T.: 8.967 min
Delta R.T.: 0.000 min
Response: 3158329465
Conc: 1303.52 ng/ml



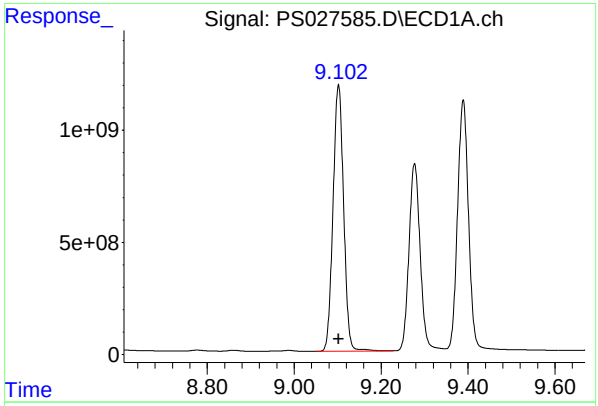
#10 Pentachlorophenol

R.T.: 8.534 min
Delta R.T.: 0.000 min
Response: 45763967230
Conc: 1152.56 ng/ml



#10 Pentachlorophenol

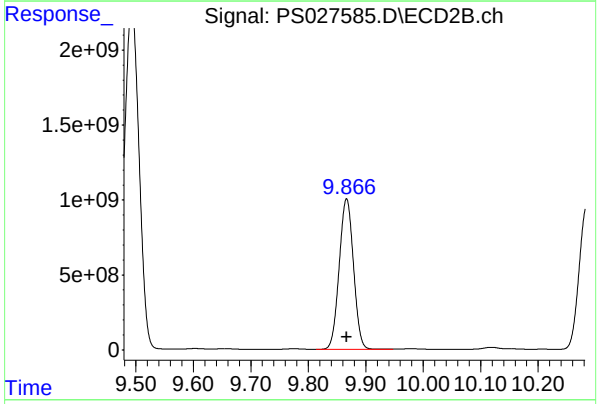
R.T.: 9.494 min
Delta R.T.: 0.000 min
Response: 41191527041
Conc: 1246.76 ng/ml



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

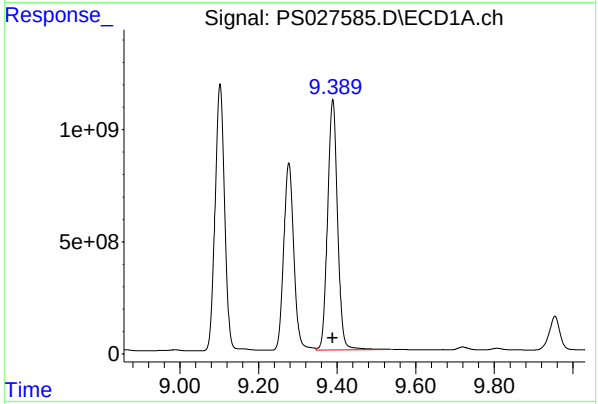
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 20079766483
Conc: 1298.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



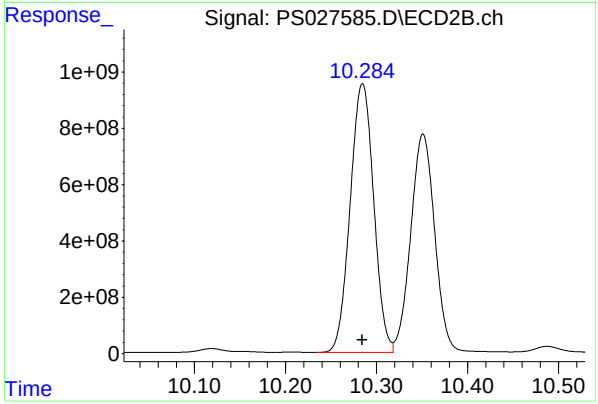
#11 2,4,5-TP (SILVEX)

R.T.: 9.867 min
Delta R.T.: 0.000 min
Response: 17282352147
Conc: 1309.31 ng/ml



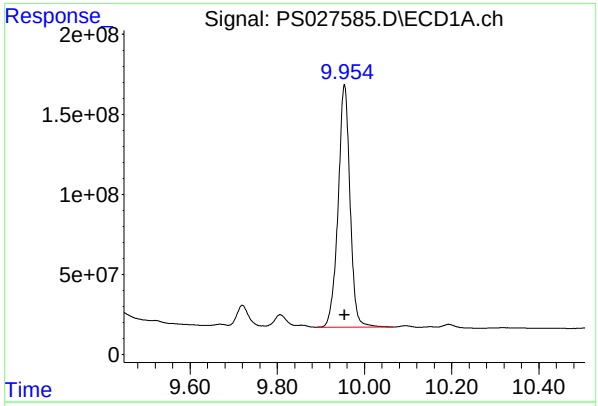
#12 2,4,5-T

R.T.: 9.389 min
Delta R.T.: 0.000 min
Response: 19686185692
Conc: 1310.21 ng/ml



#12 2,4,5-T

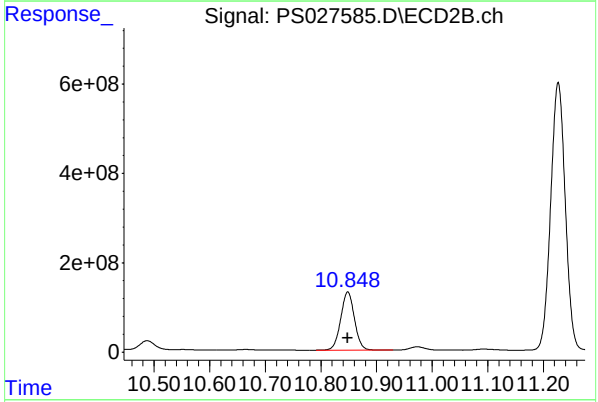
R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 17133202509
Conc: 1316.43 ng/ml



#13 2,4-DB

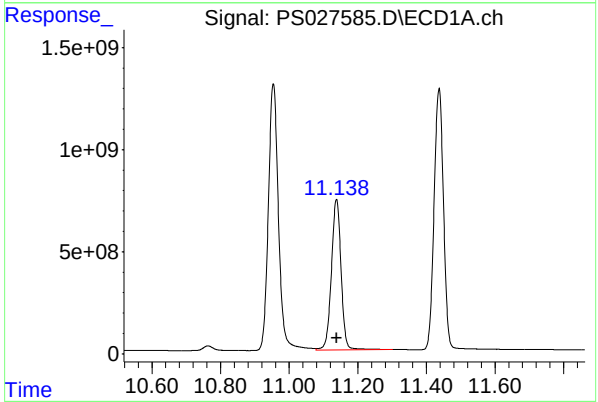
R.T.: 9.954 min
Delta R.T.: 0.000 min
Response: 2876228504
Conc: 1351.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



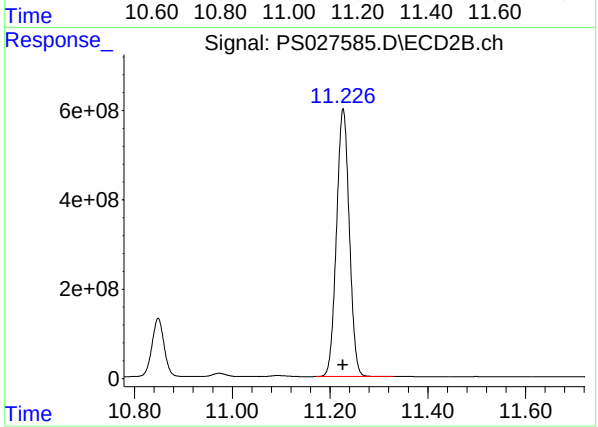
#13 2,4-DB

R.T.: 10.848 min
Delta R.T.: 0.000 min
Response: 2234413673
Conc: 1374.97 ng/ml



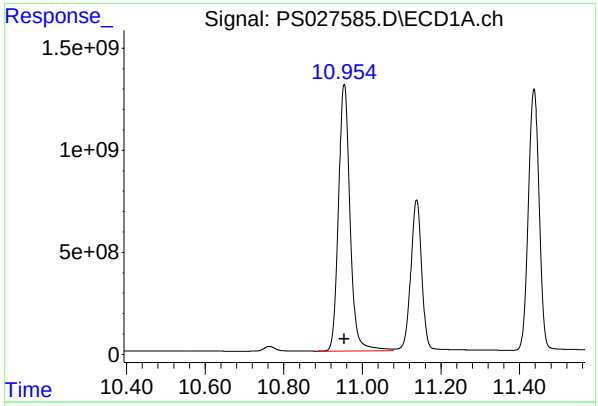
#14 DINOSEB

R.T.: 11.138 min
Delta R.T.: 0.000 min
Response: 14398687921
Conc: 1305.01 ng/ml



#14 DINOSEB

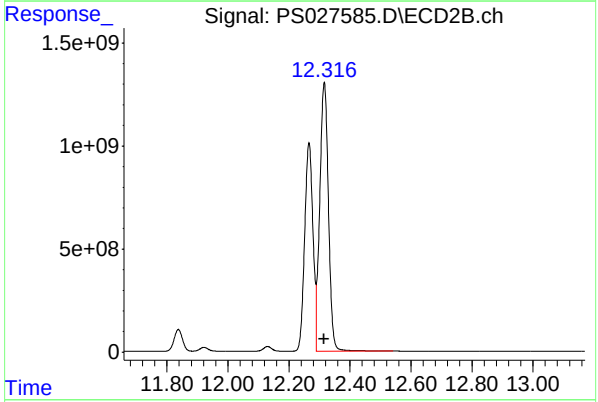
R.T.: 11.227 min
Delta R.T.: 0.000 min
Response: 10890436293
Conc: 1327.92 ng/ml



#15 Picloram

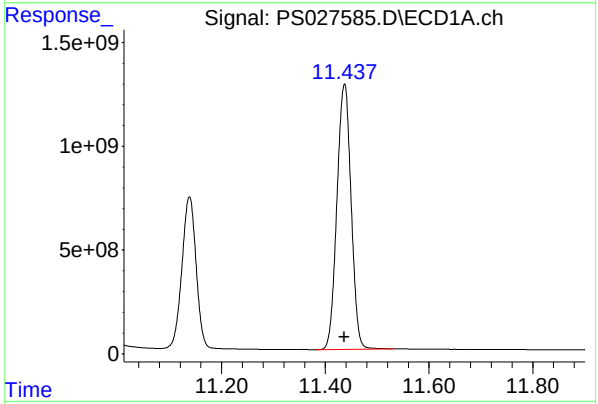
R.T.: 10.954 min
Delta R.T.: 0.000 min
Response: 26783503826
Conc: 1376.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



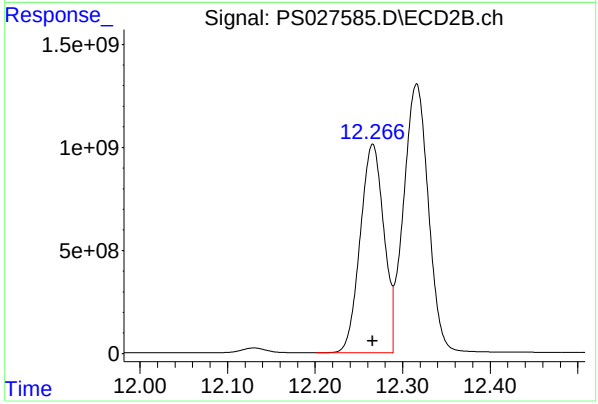
#15 Picloram

R.T.: 12.316 min
Delta R.T.: 0.000 min
Response: 25785156933
Conc: 1398.45 ng/ml



#16 DCPA

R.T.: 11.437 min
Delta R.T.: 0.000 min
Response: 24249911573
Conc: 1312.82 ng/ml



#16 DCPA

R.T.: 12.266 min
Delta R.T.: 0.000 min
Response: 19015589991
Conc: 1323.95 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027586.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 15:27
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS090324

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:45:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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	7.148	7.730	1806.7E6	1381.4E6	712.469	718.629
		Target Compounds						
1)	T	Dalapon	2.588	2.687	2034.0E6	2239.8E6	661.785	645.506
2)	T	3,5-DICHL...	6.333	6.687	2670.2E6	1903.7E6	665.009	672.956
3)	T	4-Nitroph...	6.946	7.259	957.0E6	846.0E6	642.025	656.705
5)	T	DICAMBA	7.329	7.928	7433.1E6	6103.5E6	683.504	687.189
6)	T	MCPP	7.507	8.029	524.3E6	413.1E6	70.396	69.715
7)	T	MCPA	7.653	8.272	670.3E6	576.7E6	66.823	67.204
8)	T	DICHLORPROP	8.019	8.638	1793.3E6	1471.5E6	664.977	677.503
9)	T	2,4-D	8.243	8.967	1912.3E6	1637.1E6	674.016	675.679
10)	T	Pentachlo...	8.532	9.492	28092.5E6	22859.6E6	707.507	691.900
11)	T	2,4,5-TP ...	9.102	9.866	10636.2E6	9013.1E6	687.740	682.833
12)	T	2,4,5-T	9.389	10.284	10364.1E6	8891.1E6	689.777	683.150
13)	T	2,4-DB	9.955	10.848	1453.2E6	1113.5E6	682.851	685.233
14)	T	DINOSEB	11.137	11.226	7496.3E6	5568.9E6	679.417	679.045
15)	T	Picloram	10.955	12.316	13493.9E6	12941.5E6	693.565	701.876
16)	T	DCPA	11.436	12.266	12932.7E6	10061.9E6	700.139	700.554

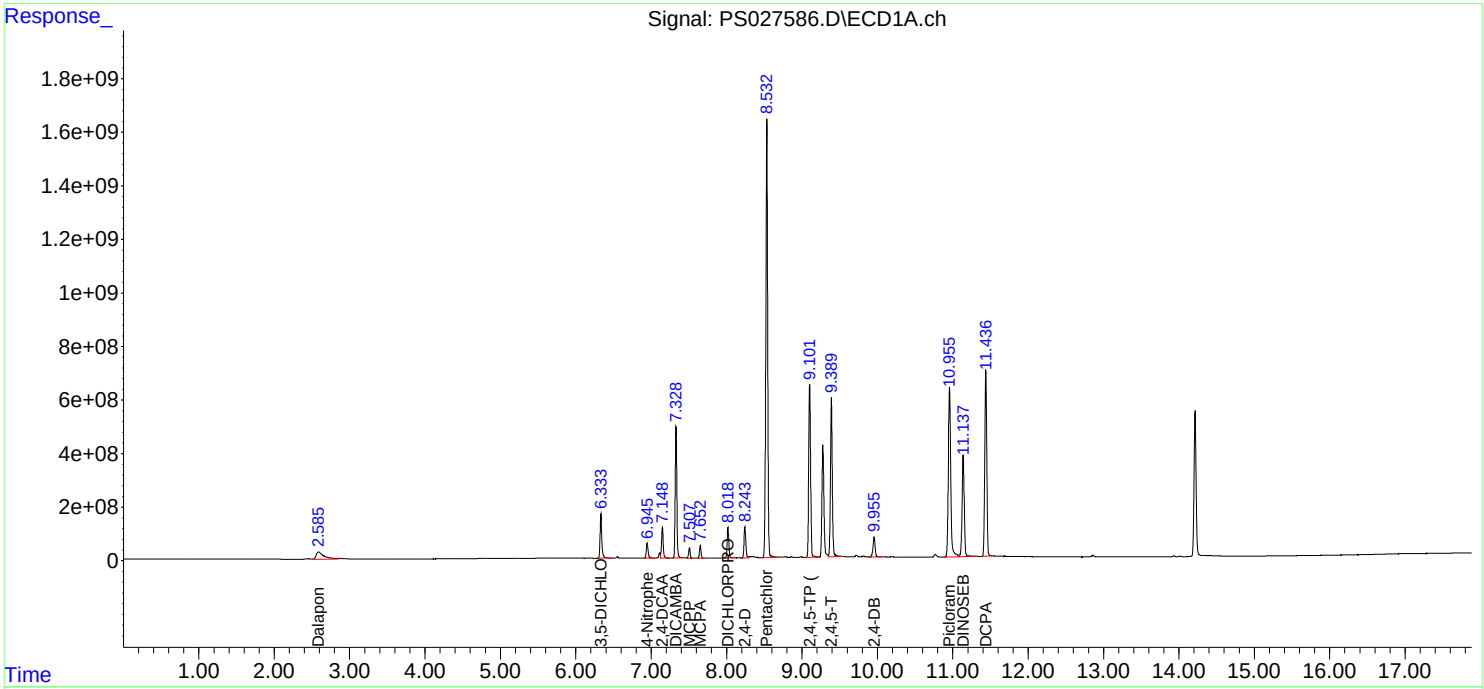
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

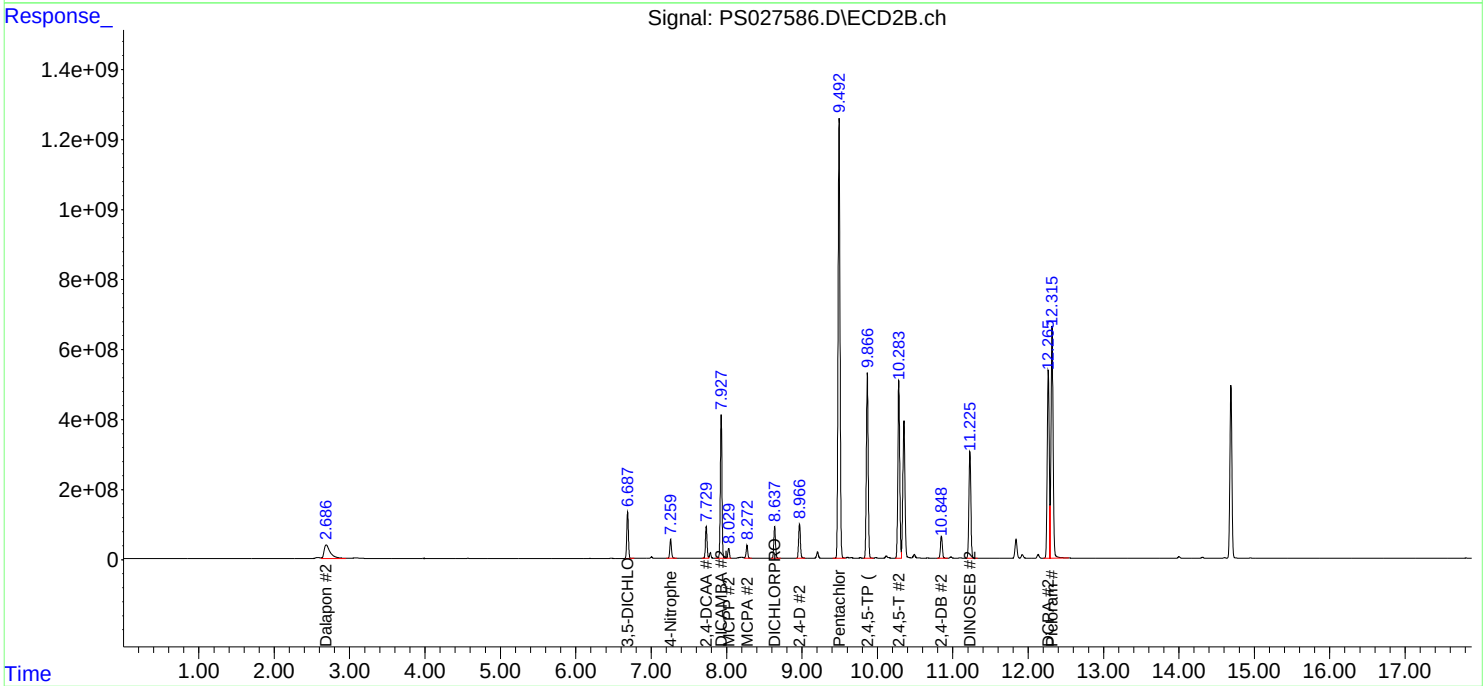
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027586.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 15:27
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

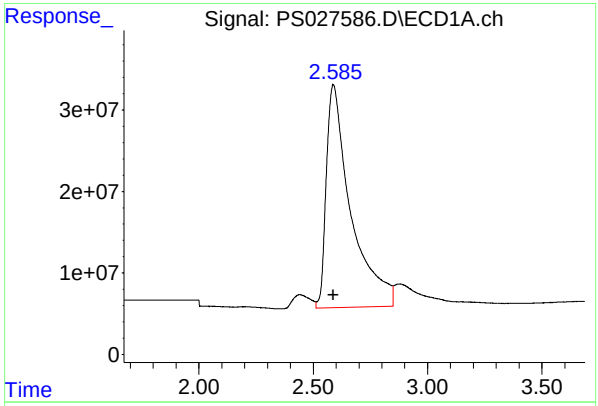
Instrument :
ECD_S
ClientSampleId :
ICVPS090324

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:45:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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



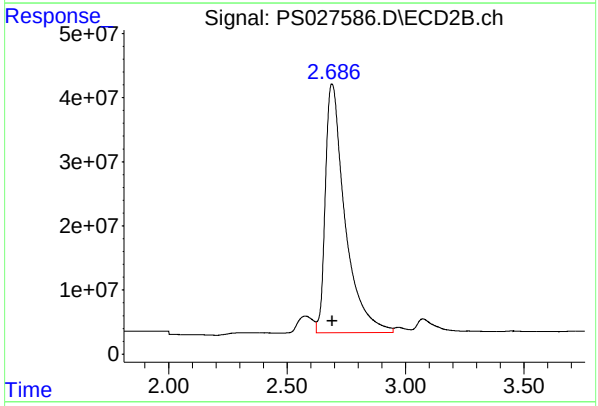




#1 Dalapon

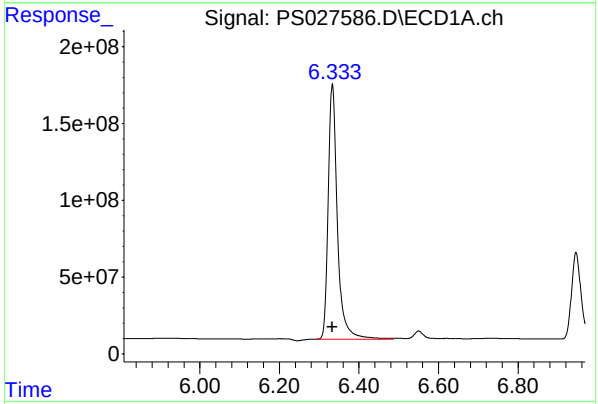
R.T.: 2.588 min
Delta R.T.: 0.000 min
Response: 2033977887
Conc: 661.78 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090324



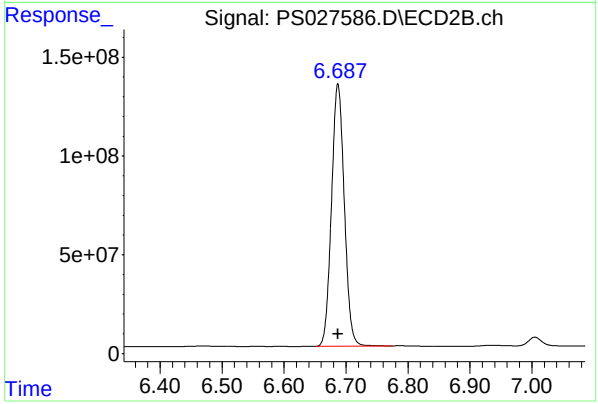
#1 Dalapon

R.T.: 2.687 min
Delta R.T.: -0.004 min
Response: 2239803687
Conc: 645.51 ng/ml



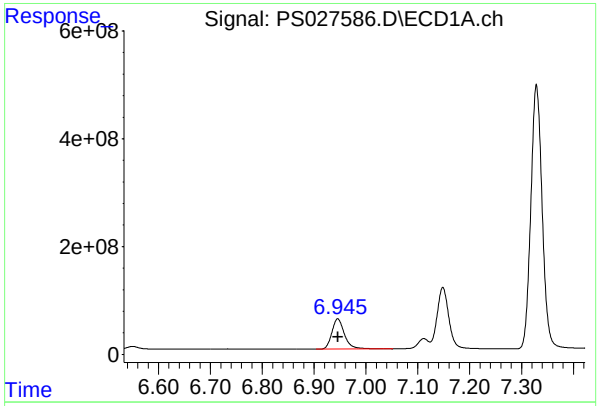
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.333 min
Delta R.T.: 0.000 min
Response: 2670182744
Conc: 665.01 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

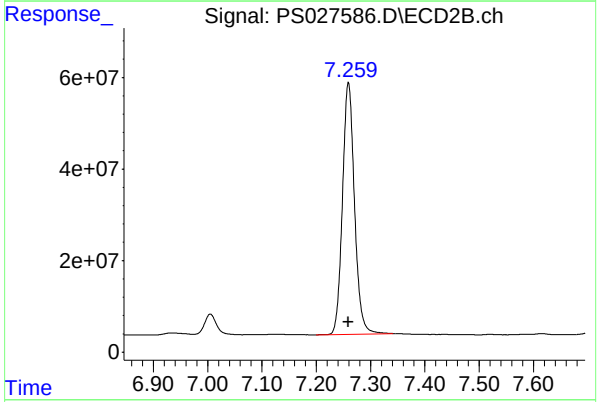
R.T.: 6.687 min
Delta R.T.: 0.000 min
Response: 1903732253
Conc: 672.96 ng/ml



#3 4-Nitrophenol

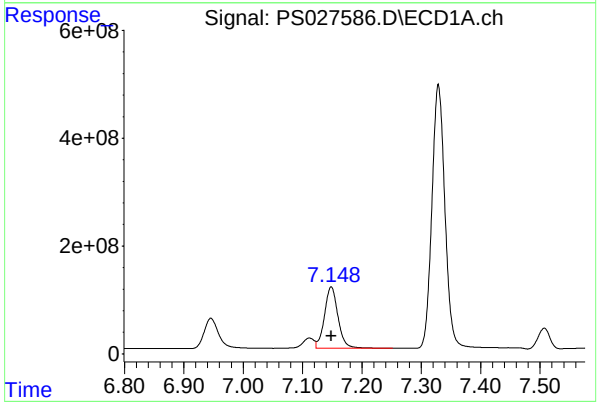
R.T.: 6.946 min
Delta R.T.: 0.000 min
Response: 957021411
Conc: 642.02 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090324



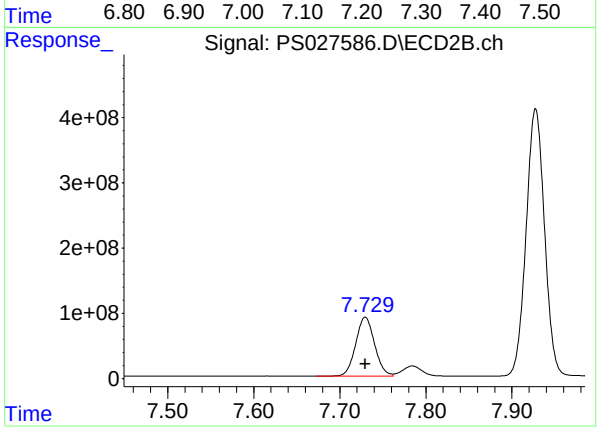
#3 4-Nitrophenol

R.T.: 7.259 min
Delta R.T.: 0.000 min
Response: 846030689
Conc: 656.71 ng/ml



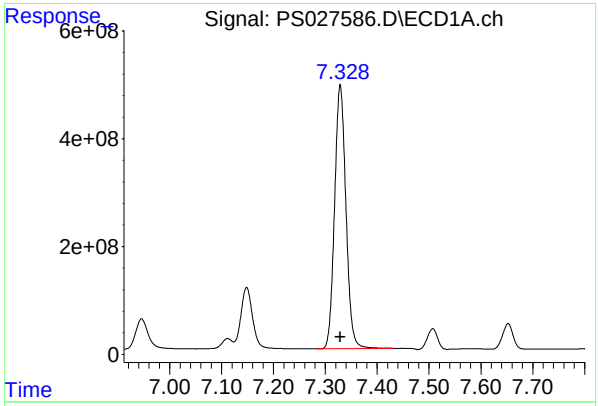
#4 2,4-DCAA

R.T.: 7.148 min
Delta R.T.: 0.000 min
Response: 1806690208
Conc: 712.47 ng/ml



#4 2,4-DCAA

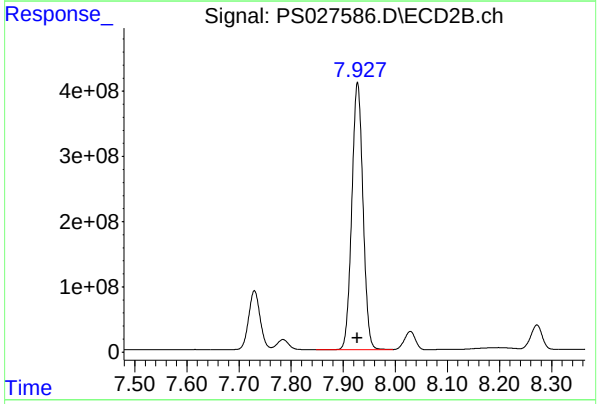
R.T.: 7.730 min
Delta R.T.: 0.000 min
Response: 1381441007
Conc: 718.63 ng/ml



#5 DICAMBA

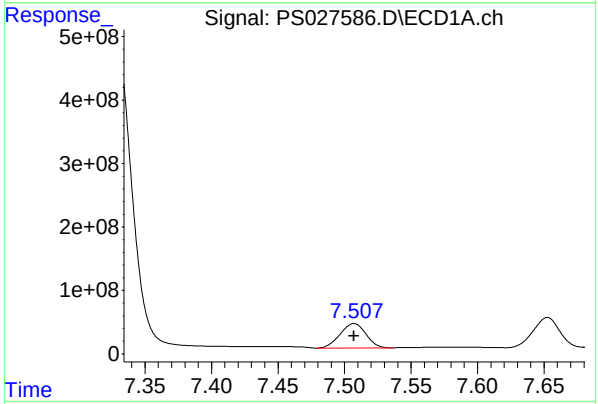
R.T.: 7.329 min
Delta R.T.: 0.000 min
Response: 7433111806
Conc: 683.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090324



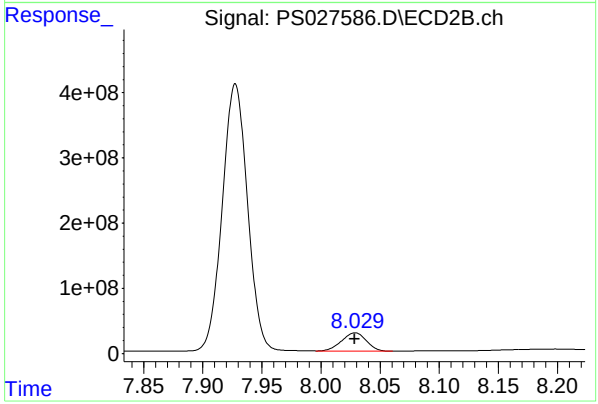
#5 DICAMBA

R.T.: 7.928 min
Delta R.T.: 0.000 min
Response: 6103522156
Conc: 687.19 ng/ml



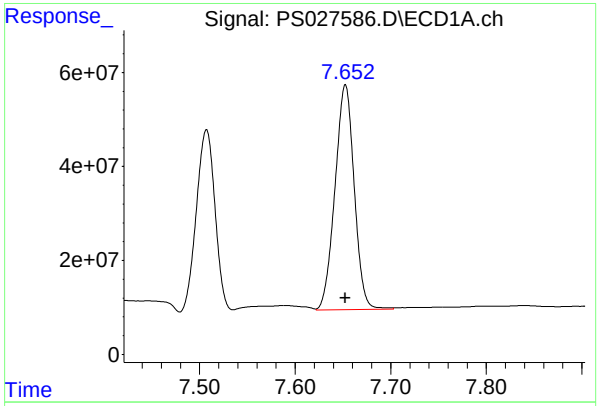
#6 MCPP

R.T.: 7.507 min
Delta R.T.: 0.000 min
Response: 524331041
Conc: 70.40 ug/ml



#6 MCPP

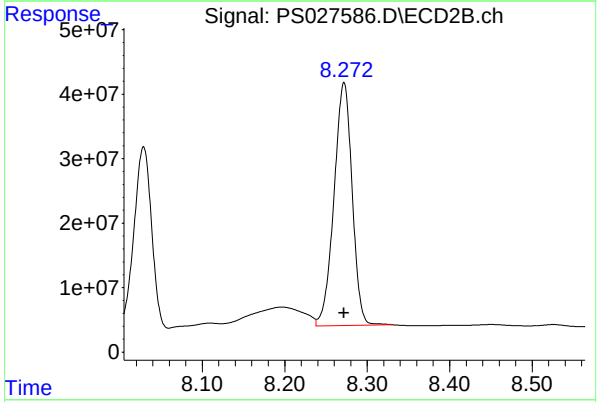
R.T.: 8.029 min
Delta R.T.: 0.000 min
Response: 413131394
Conc: 69.71 ug/ml



#7 MCPA

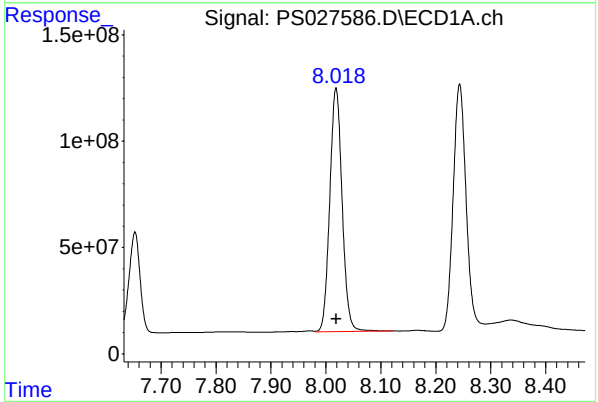
R.T.: 7.653 min
Delta R.T.: 0.000 min
Response: 670341849
Conc: 66.82 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090324



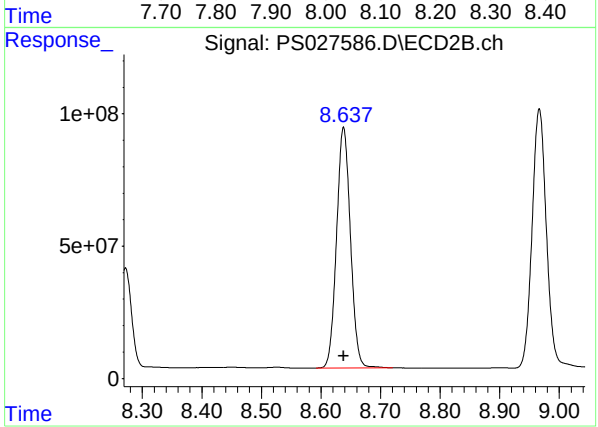
#7 MCPA

R.T.: 8.272 min
Delta R.T.: 0.000 min
Response: 576700128
Conc: 67.20 ug/ml



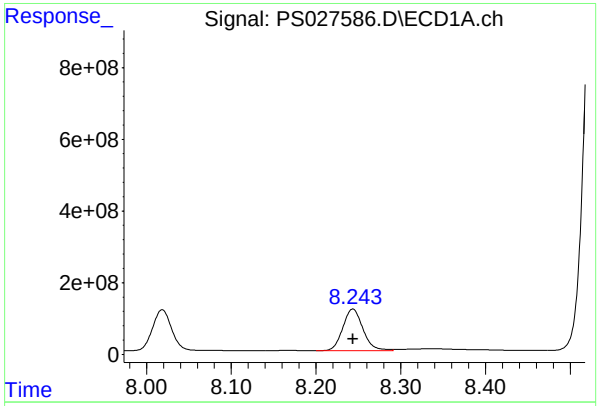
#8 DICHLORPROP

R.T.: 8.019 min
Delta R.T.: 0.000 min
Response: 1793291531
Conc: 664.98 ng/ml



#8 DICHLORPROP

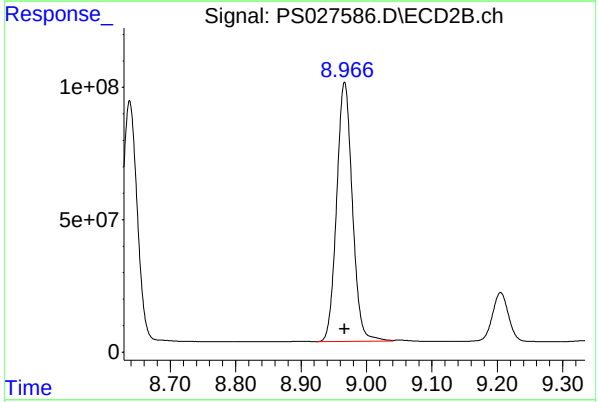
R.T.: 8.638 min
Delta R.T.: 0.000 min
Response: 1471493252
Conc: 677.50 ng/ml



#9 2,4-D

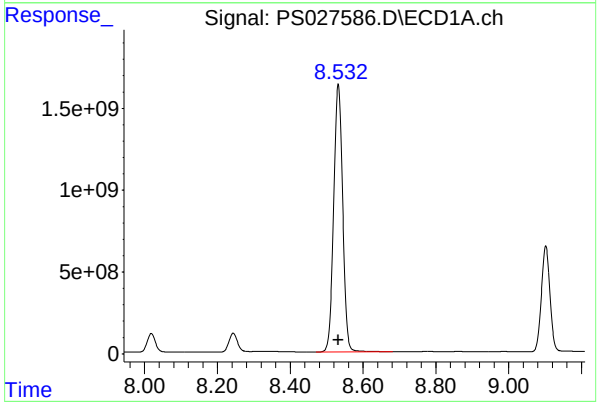
R.T.: 8.243 min
Delta R.T.: 0.000 min
Response: 1912270952
Conc: 674.02 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090324



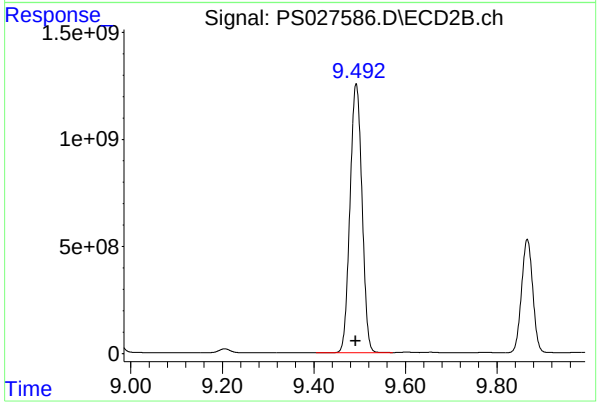
#9 2,4-D

R.T.: 8.967 min
Delta R.T.: 0.000 min
Response: 1637113980
Conc: 675.68 ng/ml



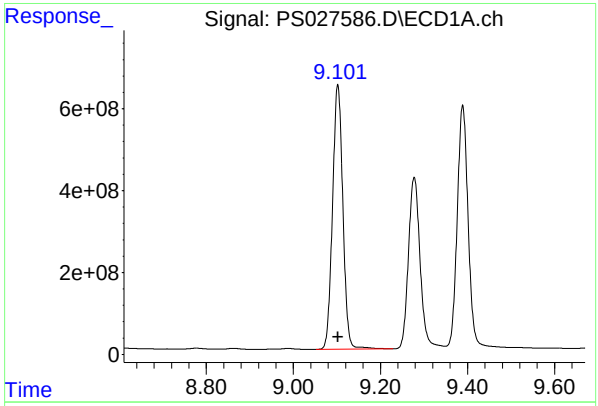
#10 Pentachlorophenol

R.T.: 8.532 min
Delta R.T.: 0.000 min
Response: 28092531018
Conc: 707.51 ng/ml



#10 Pentachlorophenol

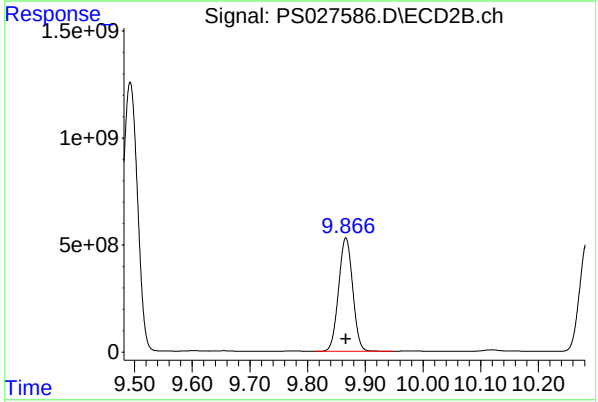
R.T.: 9.492 min
Delta R.T.: 0.000 min
Response: 22859643386
Conc: 691.90 ng/ml



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

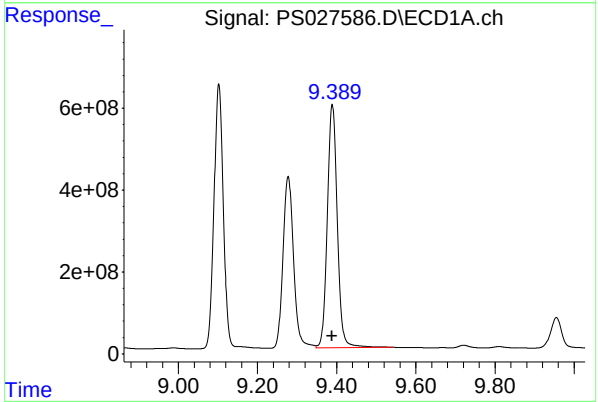
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 10636171837
Conc: 687.74 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090324



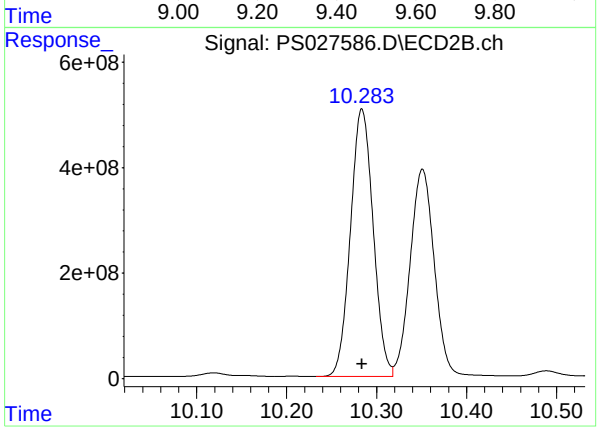
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: 0.000 min
Response: 9013109606
Conc: 682.83 ng/ml



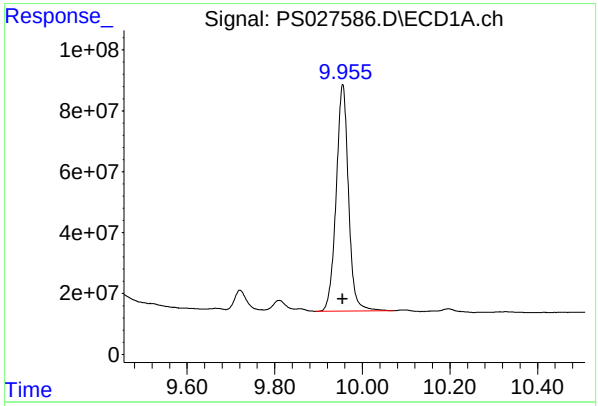
#12 2,4,5-T

R.T.: 9.389 min
Delta R.T.: 0.000 min
Response: 10364056019
Conc: 689.78 ng/ml



#12 2,4,5-T

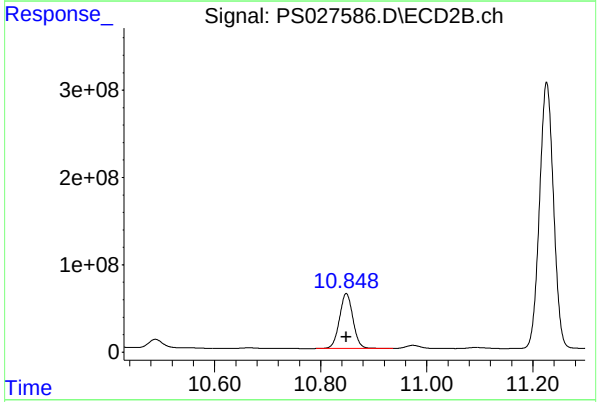
R.T.: 10.284 min
Delta R.T.: 0.000 min
Response: 8891108491
Conc: 683.15 ng/ml



#13 2,4-DB

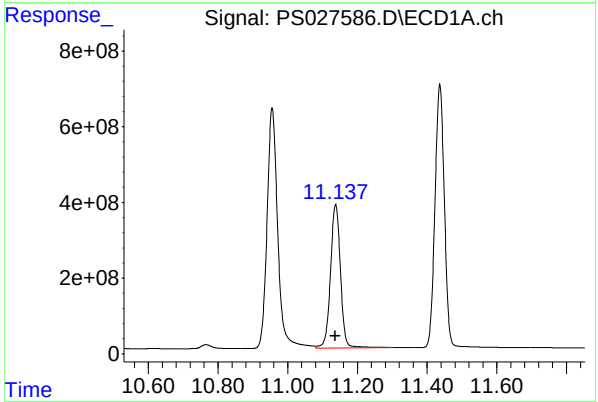
R.T.: 9.955 min
Delta R.T.: 0.000 min
Response: 1453182089
Conc: 682.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090324



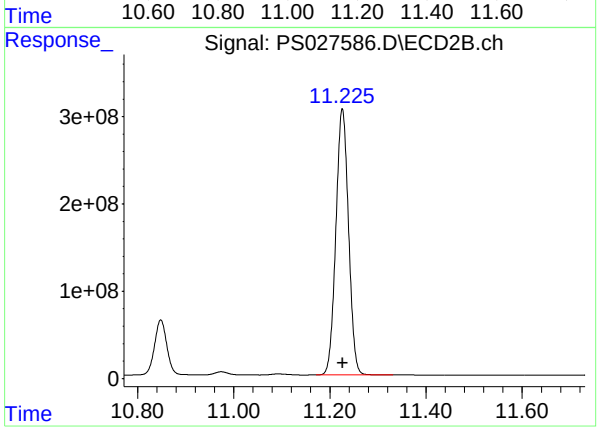
#13 2,4-DB

R.T.: 10.848 min
Delta R.T.: 0.000 min
Response: 1113549725
Conc: 685.23 ng/ml



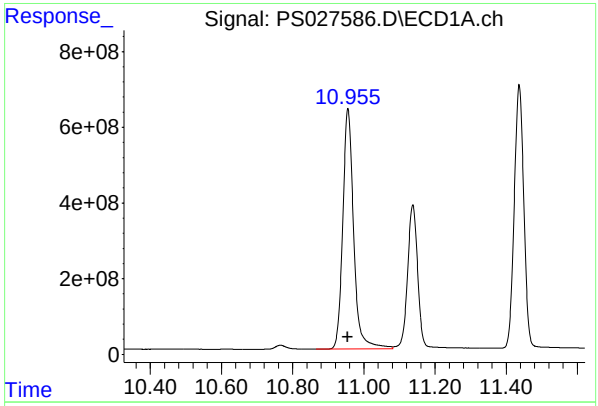
#14 DINOSEB

R.T.: 11.137 min
Delta R.T.: 0.000 min
Response: 7496278665
Conc: 679.42 ng/ml



#14 DINOSEB

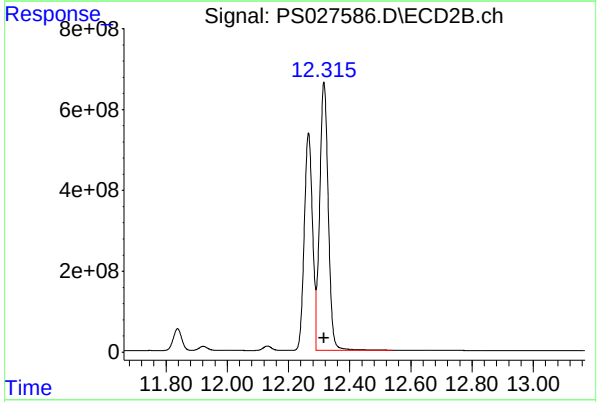
R.T.: 11.226 min
Delta R.T.: 0.000 min
Response: 5568911482
Conc: 679.04 ng/ml



#15 Picloram

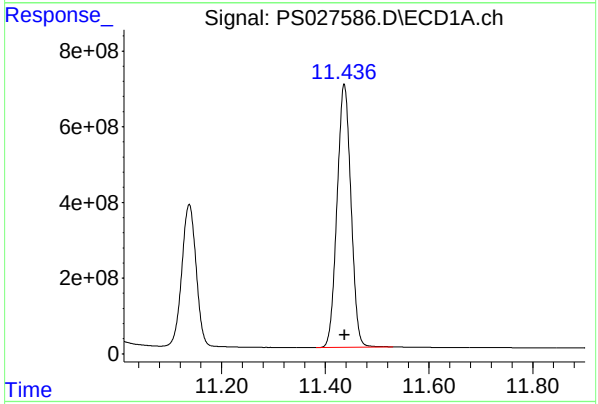
R.T.: 10.955 min
Delta R.T.: 0.000 min
Response: 13493888597
Conc: 693.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090324



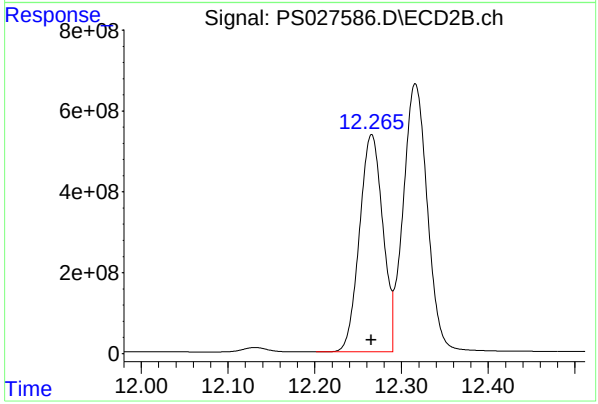
#15 Picloram

R.T.: 12.316 min
Delta R.T.: 0.000 min
Response: 12941456563
Conc: 701.88 ng/ml



#16 DCPA

R.T.: 11.436 min
Delta R.T.: 0.000 min
Response: 12932678225
Conc: 700.14 ng/ml



#16 DCPA

R.T.: 12.266 min
Delta R.T.: 0.000 min
Response: 10061869160
Conc: 700.55 ng/ml

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Instrument ID: ECD_S **Calibration Date(s):** 09/12/2024 09/12/2024

Calibration Times: 21:24 22:59

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

LAB FILE ID: RT 200 = PS027653.D RT 500 = PS027654.D

RT 750 = PS027655.D RT 1000 = PS027656.D RT 1500 = PS027657.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	9.34	9.34	9.34	9.34	9.34	9.34	9.24	9.44
2,4,5-TP(Silvex)	9.06	9.06	9.06	9.06	9.06	9.06	8.96	9.16
2,4-D	8.20	8.20	8.20	8.20	8.20	8.20	8.10	8.30
2,4-DB	9.91	9.91	9.91	9.91	9.91	9.91	9.81	10.01
2,4-DCAA	7.11	7.11	7.11	7.11	7.11	7.11	7.01	7.21
3,5-DICHLOROBENZOIC	6.30	6.30	6.30	6.30	6.30	6.30	6.20	6.40
4-Nitrophenol	6.91	6.91	6.91	6.91	6.91	6.91	6.81	7.01
Dalapon	2.56	2.56	2.55	2.56	2.56	2.56	2.46	2.66
DCPA	11.38	11.39	11.38	11.38	11.38	11.38	11.28	11.48
DICAMBA	7.29	7.29	7.29	7.29	7.29	7.29	7.19	7.39
DICHLORPROP	7.98	7.98	7.98	7.98	7.98	7.98	7.88	8.08
Dinoseb	11.09	11.09	11.08	11.08	11.08	11.08	10.98	11.18
MCPA	7.61	7.61	7.62	7.62	7.62	7.62	7.52	7.72
MCPP	7.47	7.47	7.47	7.47	7.48	7.47	7.37	7.57
Pentachlorophenol	8.49	8.49	8.49	8.49	8.49	8.49	8.39	8.59
PICLORAM	10.90	10.90	10.90	10.90	10.90	10.90	10.80	11.00

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Instrument ID: ECD_S **Calibration Date(s):** 09/12/2024 09/12/2024

Calibration Times: 21:24 22:59

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

LAB FILE ID: RT 200 = PS027653.D RT 500 = PS027654.D

RT 750 = PS027655.D RT 1000 = PS027656.D RT 1500 = PS027657.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	10.17	10.17	10.17	10.17	10.17	10.17	10.07	10.27
2,4,5-TP(Silvex)	9.75	9.76	9.76	9.76	9.76	9.75	9.65	9.85
2,4-D	8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
2,4-DB	10.73	10.73	10.73	10.73	10.73	10.73	10.63	10.83
2,4-DCAA	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73
3,5-DICHLOROBENZOIC	6.60	6.60	6.60	6.60	6.60	6.60	6.50	6.70
4-Nitrophenol	7.17	7.17	7.17	7.17	7.17	7.17	7.07	7.27
Dalapon	2.62	2.63	2.62	2.62	2.62	2.62	2.52	2.72
DCPA	12.15	12.15	12.15	12.15	12.15	12.15	12.05	12.25
DICAMBA	7.83	7.83	7.83	7.83	7.83	7.83	7.73	7.93
DICHLORPROP	8.54	8.54	8.54	8.54	8.54	8.54	8.44	8.64
Dinoseb	11.11	11.11	11.11	11.11	11.11	11.11	11.01	11.21
MCPA	8.17	8.17	8.17	8.17	8.18	8.17	8.07	8.27
MCPP	7.93	7.93	7.93	7.93	7.93	7.93	7.83	8.03
Pentachlorophenol	9.38	9.38	9.38	9.38	9.38	9.38	9.28	9.48
PICLORAM	12.19	12.19	12.19	12.19	12.19	12.19	12.09	12.29

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Instrument ID: ECD_S **Calibration Date(s):** 09/12/2024 09/12/2024

Calibration Times: 21:24 22:59

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

LAB FILE ID: **CF 200 =** PS027653.D **CF 500 =** PS027654.D

CF 750 = PS027655.D **CF 1000 =** PS027656.D **CF 1500 =** PS027657.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	16702400000	15381400000	14732300000	14580300000	13442800000	14967800000	8
2,4,5-TP(Silvex)	16480400000	15003800000	14421200000	14173600000	13096000000	14635000000	8
2,4-D	3492740000	3113810000	2979600000	2958000000	2782030000	3065240000	9
2,4-DB	2518780000	2358940000	2265490000	2286680000	2181200000	2322220000	5
2,4-DCAA	2882370000	2518620000	2408720000	2392240000	2215400000	2483470000	10
3,5-DICHLOROBENZOIC	4246480000	3716910000	3541600000	3491300000	3268020000	3652860000	10
4-Nitrophenol	1961890000	1719490000	1627540000	1617770000	1538930000	1693120000	10
Dalapon	5070090000	4083830000	3950000000	3920780000	3690710000	4143080000	13
DCPA	18839300000	17214300000	16234500000	15966800000	14732000000	16597400000	9
DICAMBA	11162500000	10210500000	9989970000	9890020000	9272720000	10105200000	7
DICHLORPROP	3073060000	2698750000	2564240000	2535150000	2383230000	2650890000	10
Dinoseb	11265800000	10034200000	9572230000	9305240000	8726850000	9780870000	10
MCPA	10812800000	9976570000	10017700000	10047900000	9794880000	10130000000	4
MCPP	6330430000	6792100000	7000250000	7209180000	7136150000	6893620000	5
Pentachlorophenol	42871300000	38235500000	35763500000	34595800000	30389900000	36371200000	13
PICLORAM	19460500000	19107400000	18550900000	18808500000	17611200000	18707700000	4

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Instrument ID: ECD_S **Calibration Date(s):** 09/12/2024 09/12/2024

Calibration Times: 21:24 22:59

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

LAB FILE ID: **CF 200 =** PS027653.D **CF 500 =** PS027654.D

CF 750 = PS027655.D **CF 1000 =** PS027656.D **CF 1500 =** PS027657.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	5110620000	5150930000	5269300000	5372770000	5230480000	5226820000	2
2,4,5-TP(Silvex)	5828170000	5909010000	6118970000	6127280000	5996050000	5995900000	2
2,4-D	1161930000	1098640000	1103250000	1118490000	1092760000	1115020000	3
2,4-DB	602055000	609278000	611890000	624233000	629054000	615302000	2
2,4-DCAA	1082400000	978389000	981157000	972356000	940861000	991033000	5
3,5-DICHLOROBENZOIC	1753920000	1591830000	1590810000	1596310000	1524270000	1611430000	5
4-Nitrophenol	841001000	726303000	692320000	683082000	641248000	716791000	11
Dalapon	1599040000	1580000000	1609680000	1685780000	1684800000	1631860000	3
DCPA	6448360000	6361060000	6486230000	6602690000	6327250000	6445120000	2
DICAMBA	4269120000	4299140000	4494770000	4505540000	4463310000	4406380000	3
DICHLORPROP	1198150000	1098750000	1106010000	1108730000	1074480000	1117220000	4
Dinoseb	4447790000	4144180000	4219680000	4148970000	4067330000	4205590000	3
MCPA	6474470000	5249750000	5066230000	4962050000	4715890000	5293680000	13
MCPP	2938430000	3129120000	3373300000	3430830000	3540700000	3282480000	7
Pentachlorophenol	17004700000	16732300000	16813300000	16464800000	15646500000	16532400000	3
PICLORAM	3447070000	4461460000	4866540000	5074900000	5386720000	4647340000	16

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027653.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 21:24
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:37:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.111	7.633	576.5E6	216.5E6	231.738m	218.439
	Target Compounds						
1) T	Dalapon	2.555	2.624	922.8E6	291.0E6	222.722	178.340
2) T	3,5-DICHL...	6.302	6.604	789.8E6	326.2E6	216.226	202.447
3) T	4-Nitroph...	6.909	7.169	357.1E6	153.1E6	210.891	213.538
5) T	DICAMBA	7.291	7.828	2098.6E6	802.6E6	207.672	182.144
6) T	MCPP	7.467	7.928	119.0E6	55242575	17.264	16.830
7) T	MCPA	7.611	8.168	201.1E6	120.4E6	19.854	22.749
8) T	DICHLORPROP	7.978	8.535	577.7E6	225.3E6	217.940	201.617
9) T	2,4-D	8.203	8.861	656.6E6	218.4E6	214.220	195.910
10) T	Pentachlo...	8.488	9.377	8145.5E6	3230.9E6	223.956	195.429
11) T	2,4,5-TP ...	9.056	9.754	3131.3E6	1107.4E6	213.957	184.685
12) T	2,4,5-T	9.343	10.170	3173.5E6	971.0E6	212.018	185.776
13) T	2,4-DB	9.907	10.734	478.6E6	114.4E6	206.083	185.909
14) T	DINOSEB	11.085	11.109	2118.0E6	836.2E6	216.542	198.827
15) T	Picloram	10.903	12.193	3697.5E6	654.9E6	197.646	140.929 #
16) T	DCPA	11.384	12.145	3617.1E6	1238.1E6	217.935	192.097

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027653.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 21:24
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

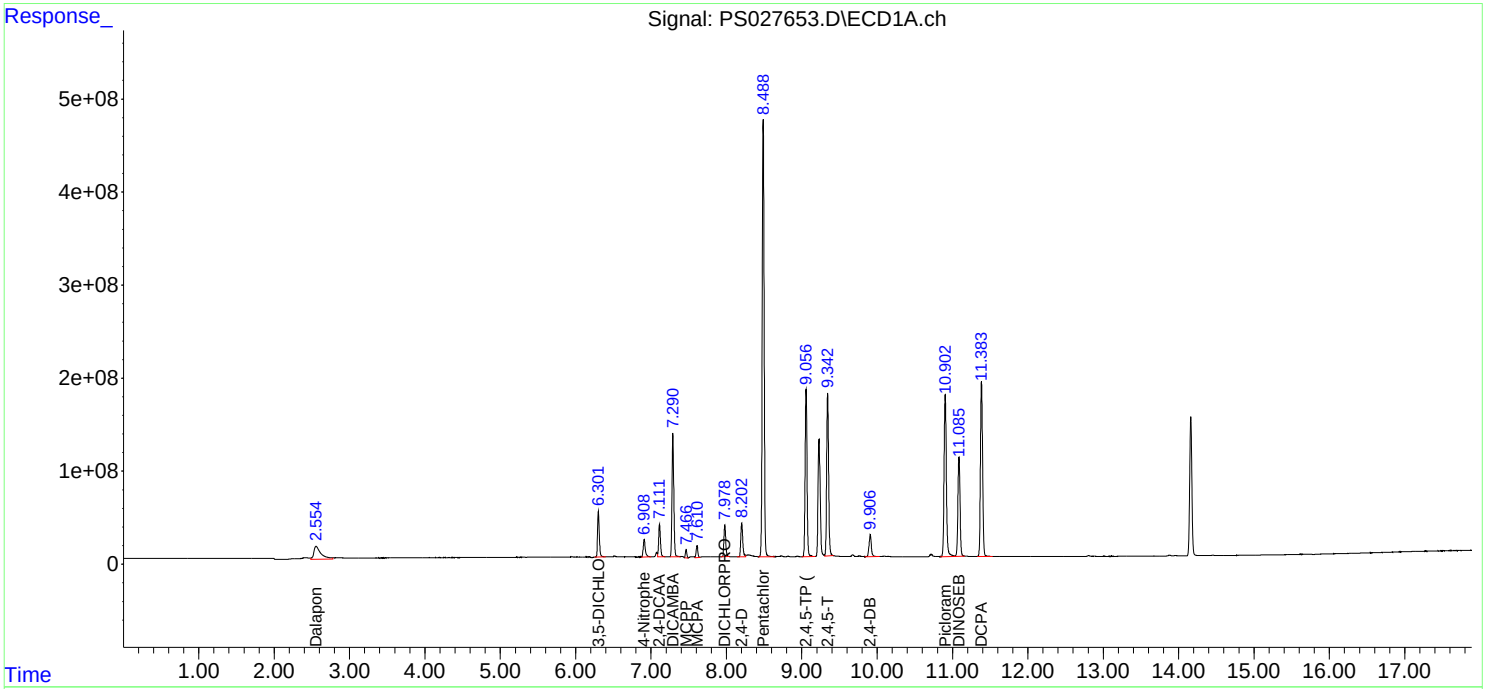
Instrument :
ECD_S
ClientSampleId :
HSTDICC200

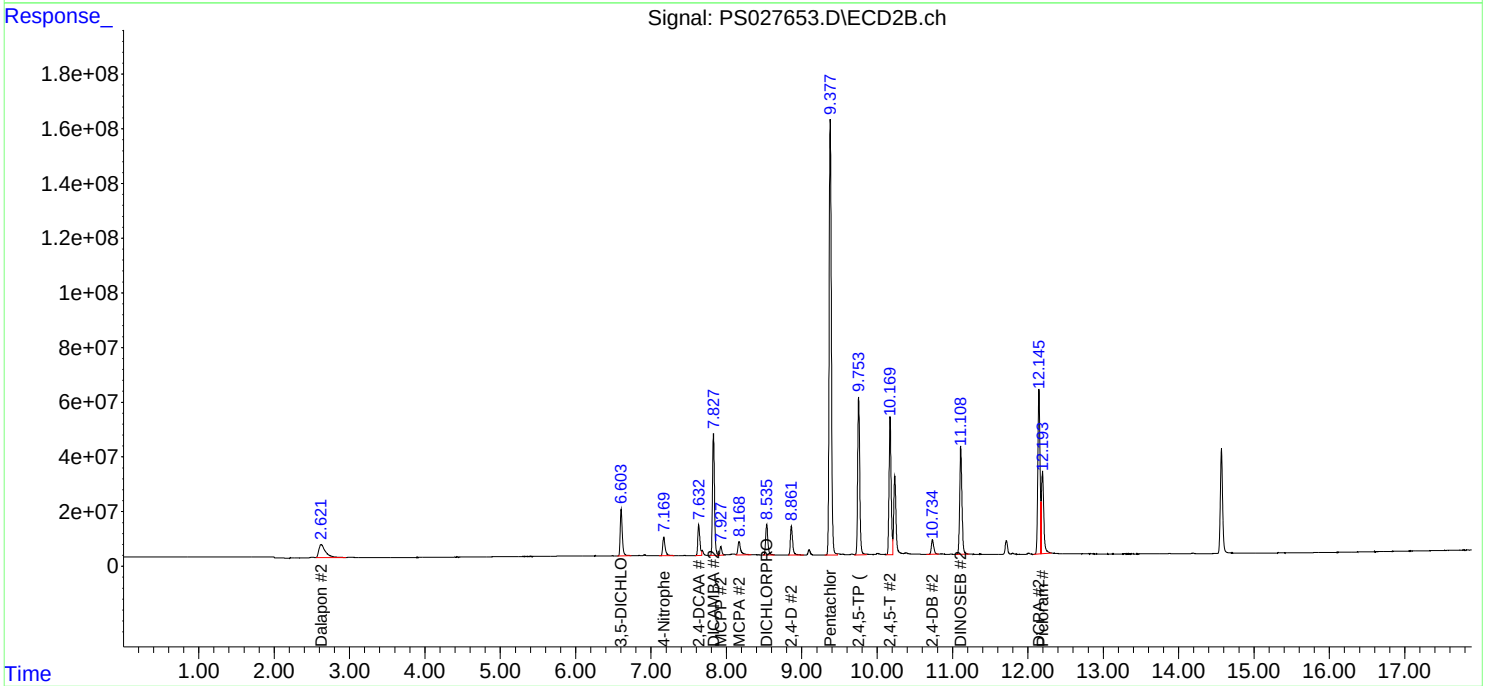
Manual Integrations APPROVED

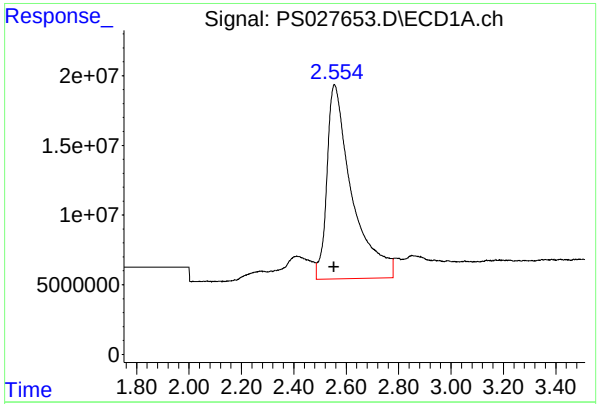
Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:37:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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







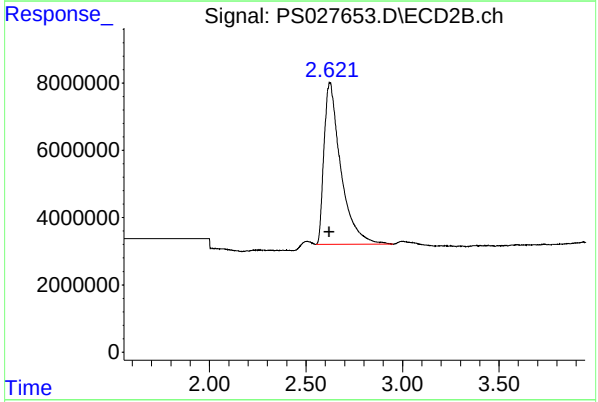
#1 Dalapon

R.T.: 2.555 min
Delta R.T.: 0.001 min
Response: 922756883
Conc: 222.72 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

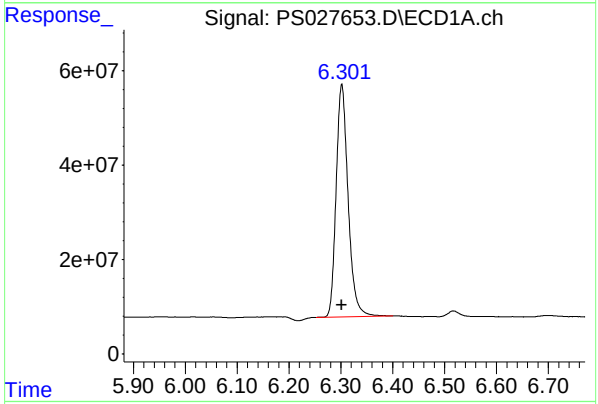
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



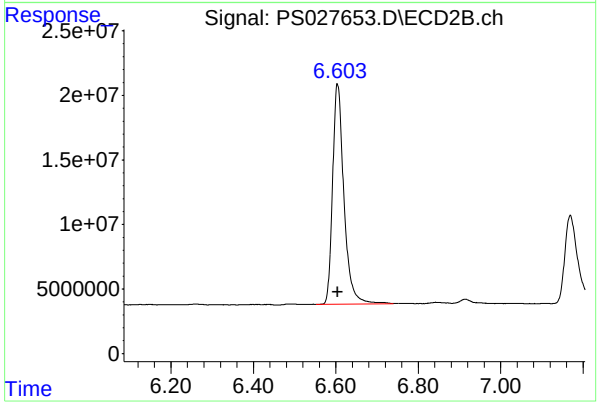
#1 Dalapon

R.T.: 2.624 min
Delta R.T.: 0.004 min
Response: 291026154
Conc: 178.34 ng/ml



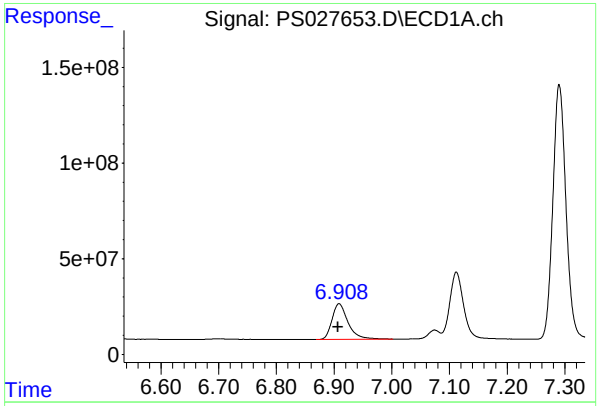
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.302 min
Delta R.T.: 0.000 min
Response: 789844565
Conc: 216.23 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 326229059
Conc: 202.45 ng/ml



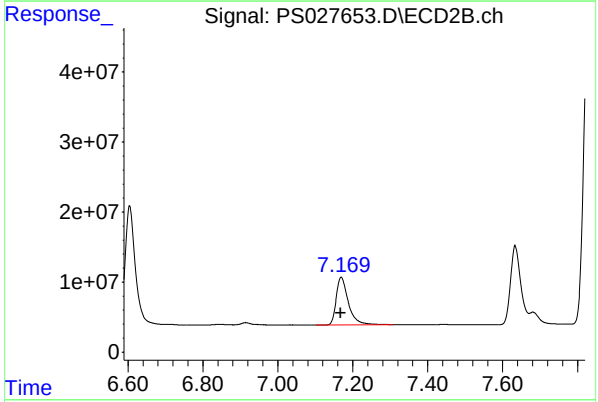
#3 4-Nitrophenol

R.T.: 6.909 min
Delta R.T.: 0.002 mi
Response: 357063818
Conc: 210.89 ng/m

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

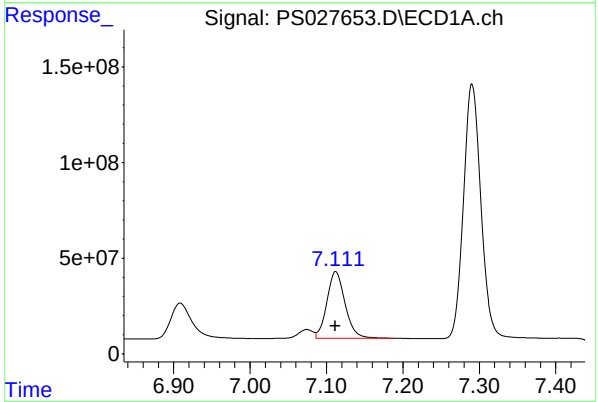
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



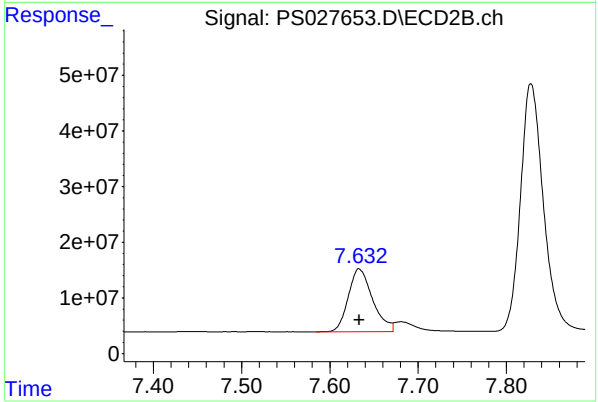
#3 4-Nitrophenol

R.T.: 7.169 min
Delta R.T.: 0.001 min
Response: 153062230
Conc: 213.54 ng/ml



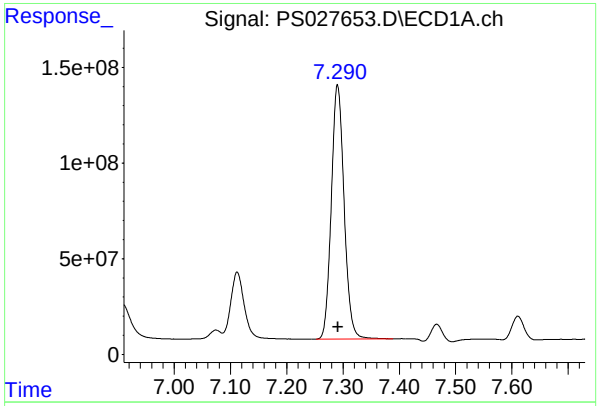
#4 2,4-DCAA

R.T.: 7.111 min
Delta R.T.: 0.000 min
Response: 576474162
Conc: 231.74 ng/ml m



#4 2,4-DCAA

R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 216480697
Conc: 218.44 ng/ml



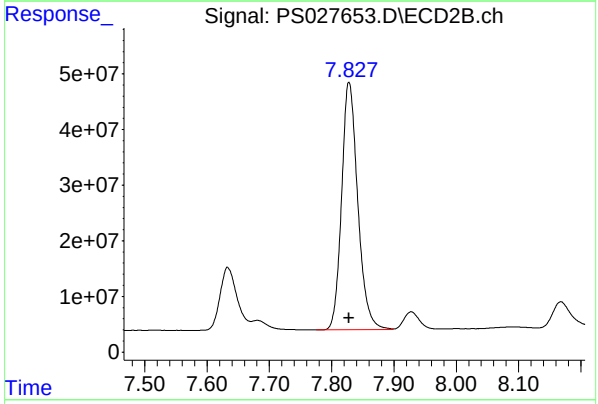
#5 DICAMBA

R.T.: 7.291 min
Delta R.T.: 0.000 min
Response: 2098555001
Conc: 207.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

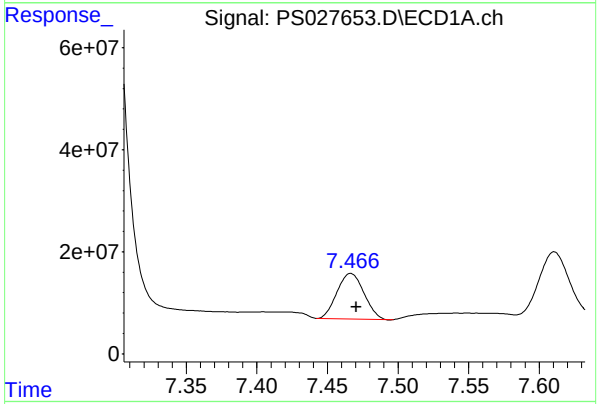
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



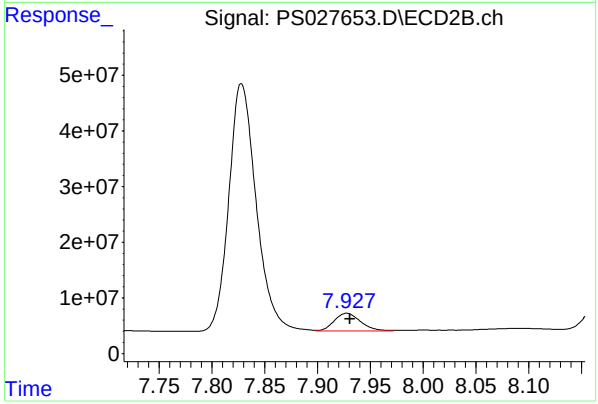
#5 DICAMBA

R.T.: 7.828 min
Delta R.T.: 0.000 min
Response: 802595073
Conc: 182.14 ng/ml



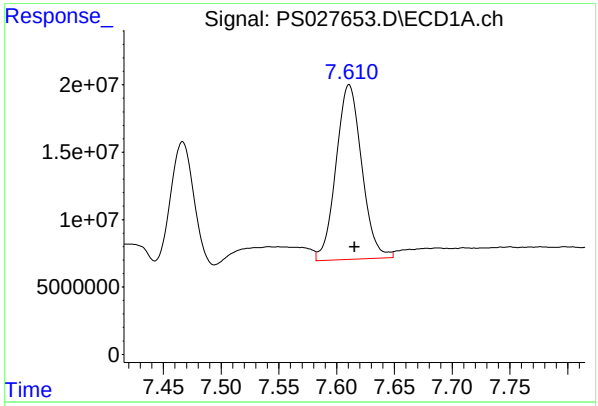
#6 MCPP

R.T.: 7.467 min
Delta R.T.: -0.004 min
Response: 119011997
Conc: 17.26 ug/ml



#6 MCPP

R.T.: 7.928 min
Delta R.T.: -0.003 min
Response: 55242575
Conc: 16.83 ug/ml



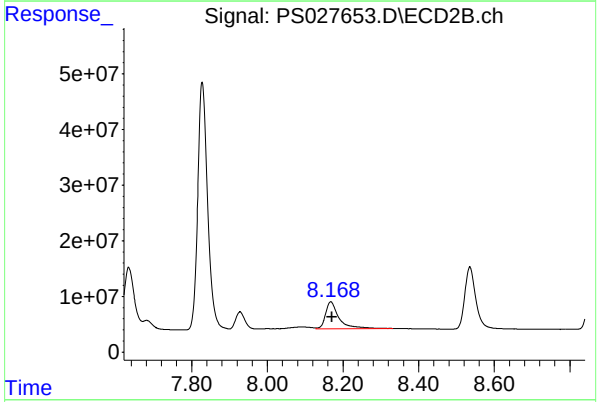
#7 MCPA

R.T.: 7.611 min
Delta R.T.: -0.005 min
Response: 201117961
Conc: 19.85 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

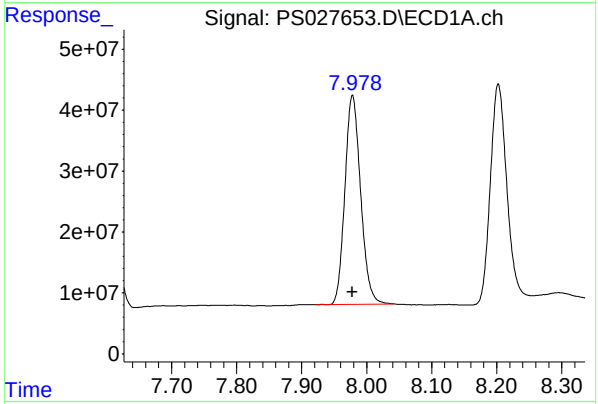
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



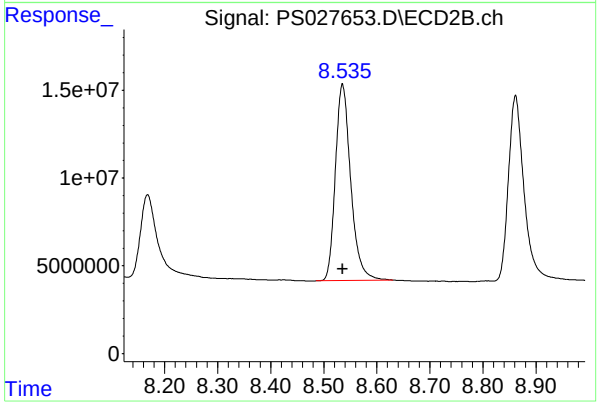
#7 MCPA

R.T.: 8.168 min
Delta R.T.: -0.004 min
Response: 120425205
Conc: 22.75 ug/ml



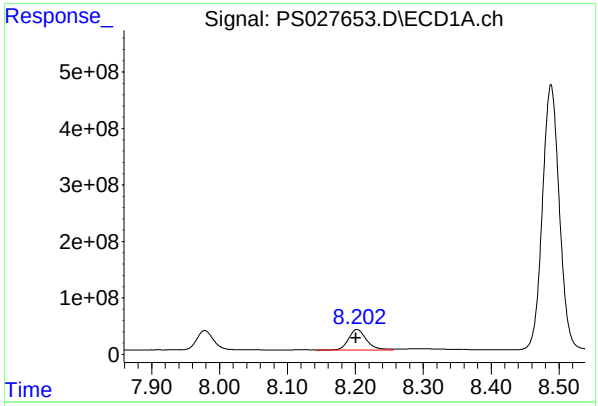
#8 DICHLORPROP

R.T.: 7.978 min
Delta R.T.: 0.000 min
Response: 577734440
Conc: 217.94 ng/ml



#8 DICHLORPROP

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 225251447
Conc: 201.62 ng/ml



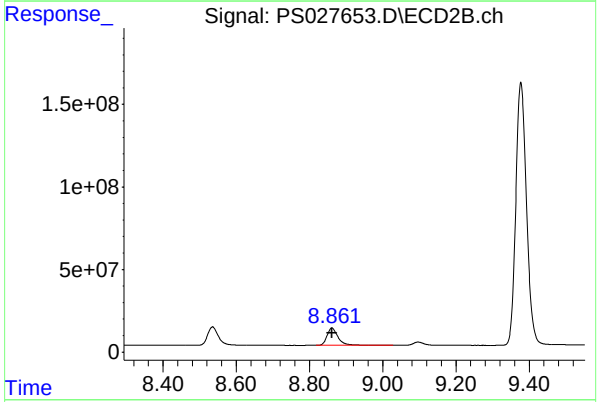
#9 2,4-D

R.T.: 8.203 min
Delta R.T.: 0.002 min
Response: 656634596
Conc: 214.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

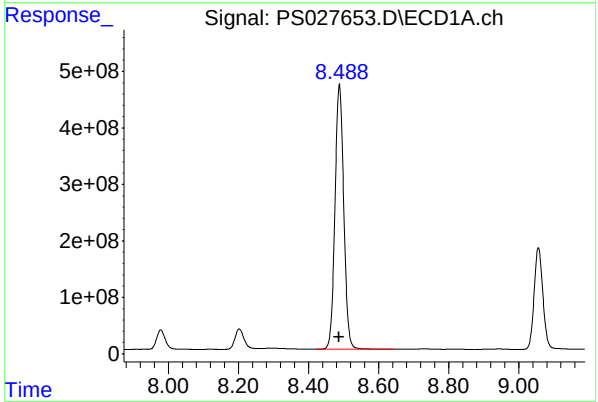
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



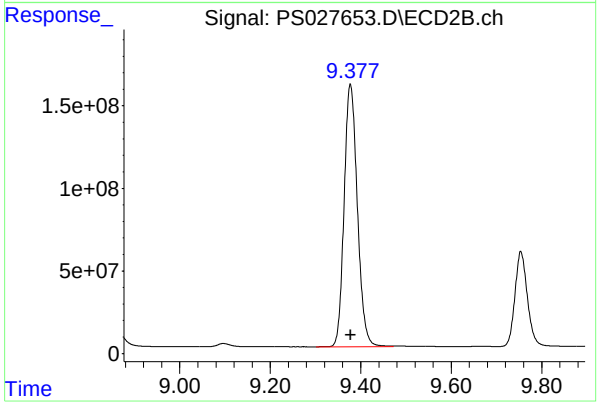
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 218443238
Conc: 195.91 ng/ml



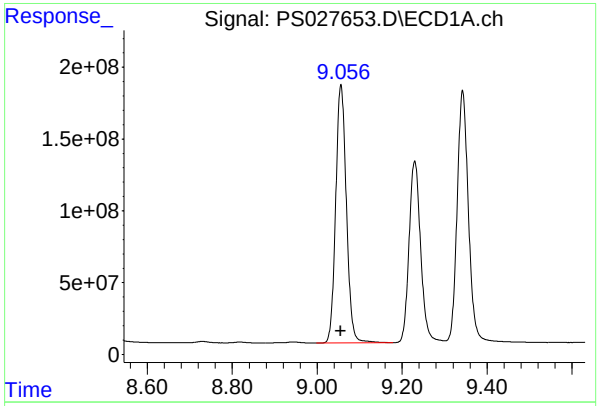
#10 Pentachlorophenol

R.T.: 8.488 min
Delta R.T.: 0.000 min
Response: 8145544902
Conc: 223.96 ng/ml



#10 Pentachlorophenol

R.T.: 9.377 min
Delta R.T.: 0.000 min
Response: 3230901140
Conc: 195.43 ng/ml



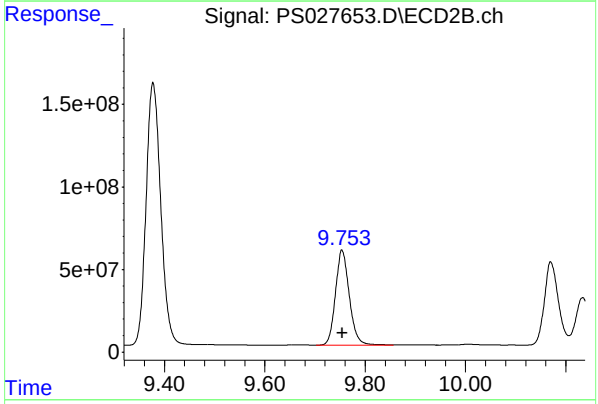
#11 2,4,5-TP (SILVEX)

R.T.: 9.056 min
Delta R.T.: 0.000 min
Response: 3131270331
Conc: 213.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

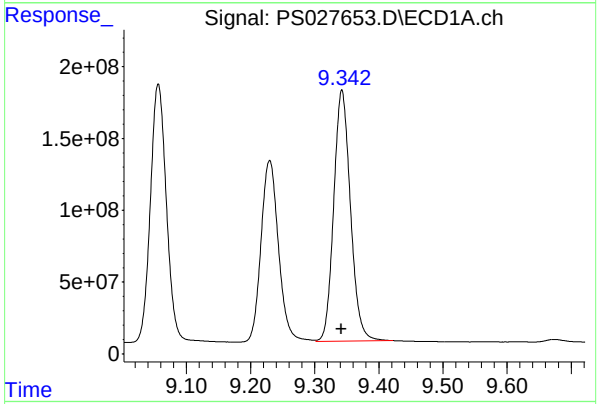
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



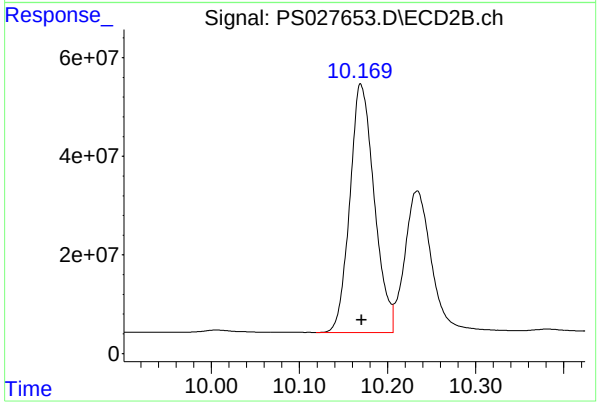
#11 2,4,5-TP (SILVEX)

R.T.: 9.754 min
Delta R.T.: 0.000 min
Response: 1107352649
Conc: 184.69 ng/ml



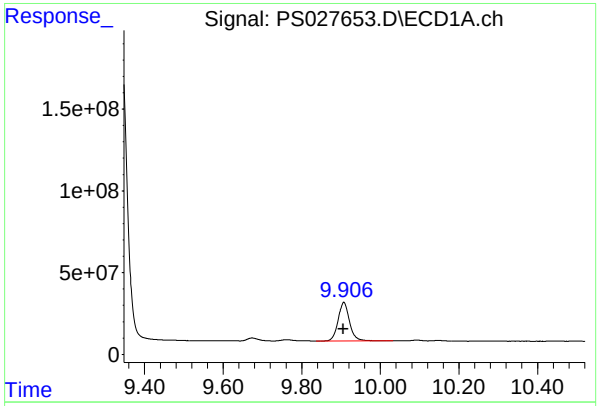
#12 2,4,5-T

R.T.: 9.343 min
Delta R.T.: 0.000 min
Response: 3173456987
Conc: 212.02 ng/ml



#12 2,4,5-T

R.T.: 10.170 min
Delta R.T.: 0.000 min
Response: 971017819
Conc: 185.78 ng/ml



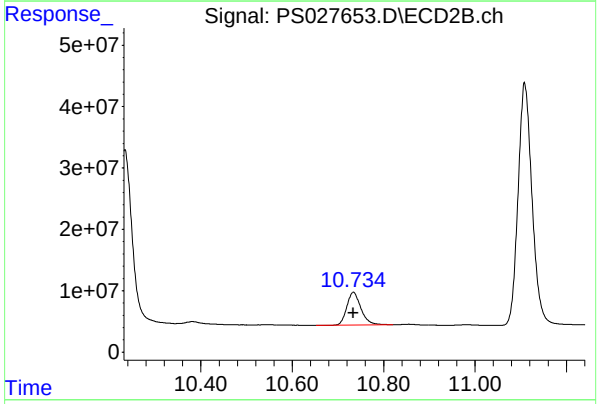
#13 2,4-DB

R.T.: 9.907 min
Delta R.T.: 0.002 min
Response: 478568901
Conc: 206.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

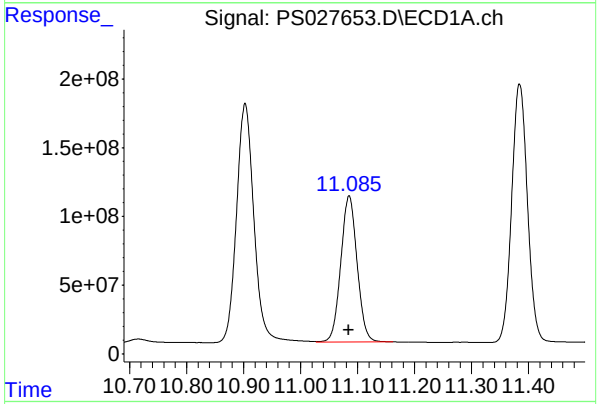
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



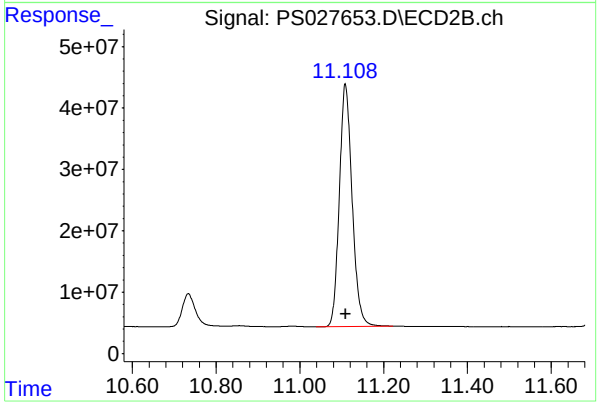
#13 2,4-DB

R.T.: 10.734 min
Delta R.T.: 0.000 min
Response: 114390455
Conc: 185.91 ng/ml



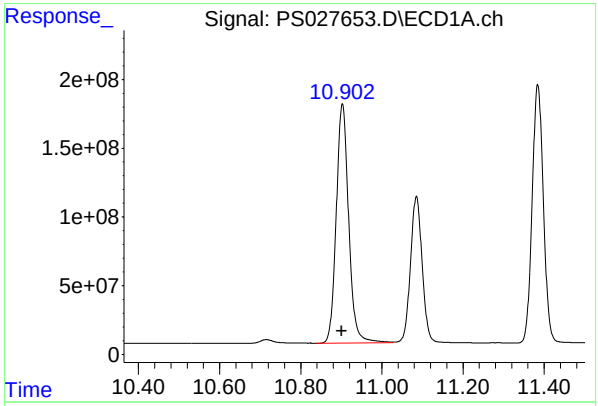
#14 DINOSEB

R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 2117969346
Conc: 216.54 ng/ml



#14 DINOSEB

R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 836184975
Conc: 198.83 ng/ml



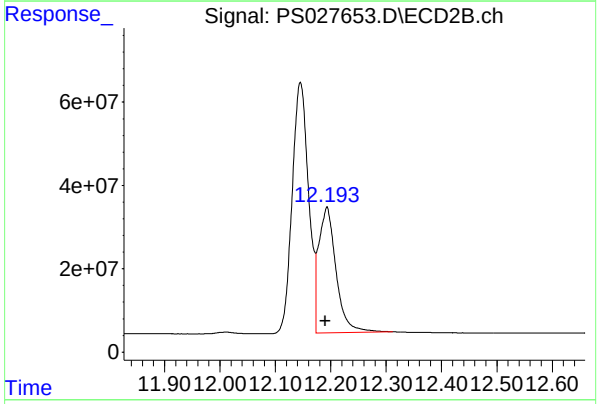
#15 Picloram

R.T.: 10.903 min
Delta R.T.: 0.002 min
Response: 3697503461
Conc: 197.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

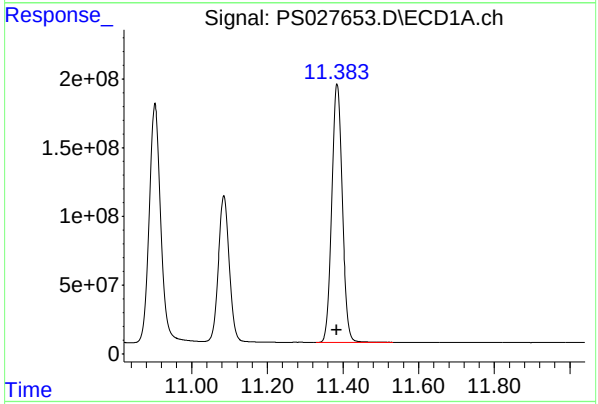
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



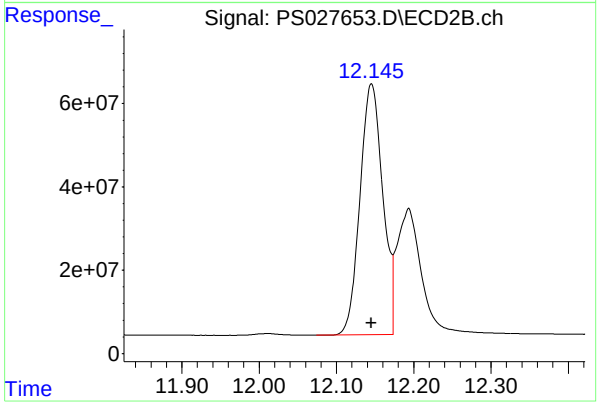
#15 Picloram

R.T.: 12.193 min
Delta R.T.: 0.003 min
Response: 654943603
Conc: 140.93 ng/ml



#16 DCPA

R.T.: 11.384 min
Delta R.T.: 0.001 min
Response: 3617140777
Conc: 217.93 ng/ml



#16 DCPA

R.T.: 12.145 min
Delta R.T.: 0.000 min
Response: 1238085976
Conc: 192.10 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027654.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 21:48
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:34:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.111	7.634	1259.3E6	489.2E6	528.290	505.267
	Target Compounds						
1) T	Dalapon	2.556	2.628	1858.1E6	718.9E6	475.067	438.338
2) T	3,5-DICHL...	6.301	6.604	1728.4E6	740.2E6	493.190	469.728
3) T	4-Nitroph...	6.907	7.168	782.4E6	330.5E6	481.180	481.915
5) T	DICAMBA	7.291	7.829	4799.0E6	2020.6E6	487.658	455.018
6) T	MCPP	7.469	7.930	319.2E6	147.1E6	45.381	43.660
7) T	MCPA	7.614	8.171	463.9E6	244.1E6	46.581	48.838
8) T	DICHLORPROP	7.978	8.536	1268.4E6	516.4E6	498.326	470.754
9) T	2,4-D	8.201	8.861	1463.5E6	516.4E6	494.696	468.022
10) T	Pentachlo...	8.488	9.378	18161.9E6	7947.9E6	522.701	484.205
11) T	2,4,5-TP ...	9.056	9.755	7126.8E6	2806.8E6	502.821	464.866
12) T	2,4,5-T	9.341	10.171	7306.2E6	2446.7E6	502.689	465.516
13) T	2,4-DB	9.905	10.734	1120.5E6	289.4E6	492.942	467.832
14) T	DINOSEB	11.085	11.110	4716.1E6	1947.8E6	501.197	469.902
15) T	Picloram	10.902	12.191	9076.0E6	2119.2E6	490.079	428.344
16) T	DCPA	11.385	12.146	8262.9E6	3053.3E6	515.240	473.800

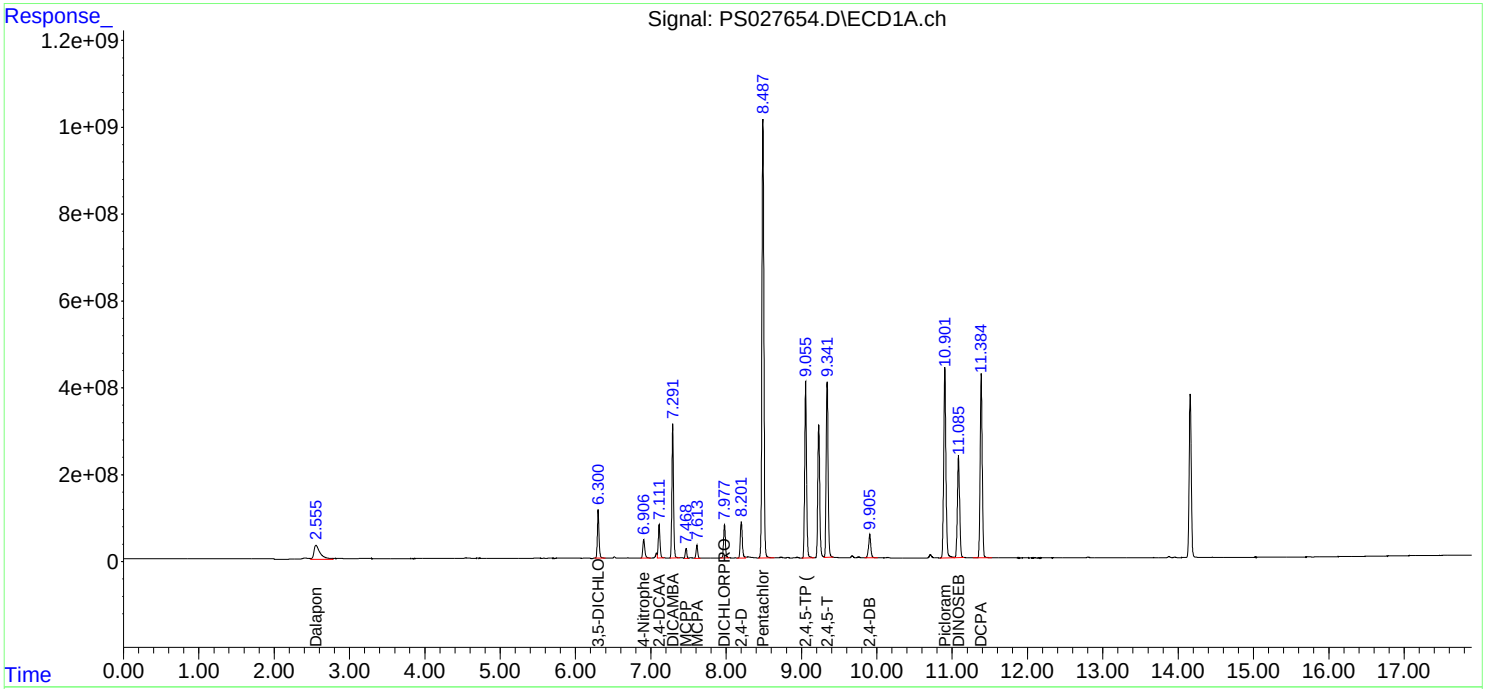
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

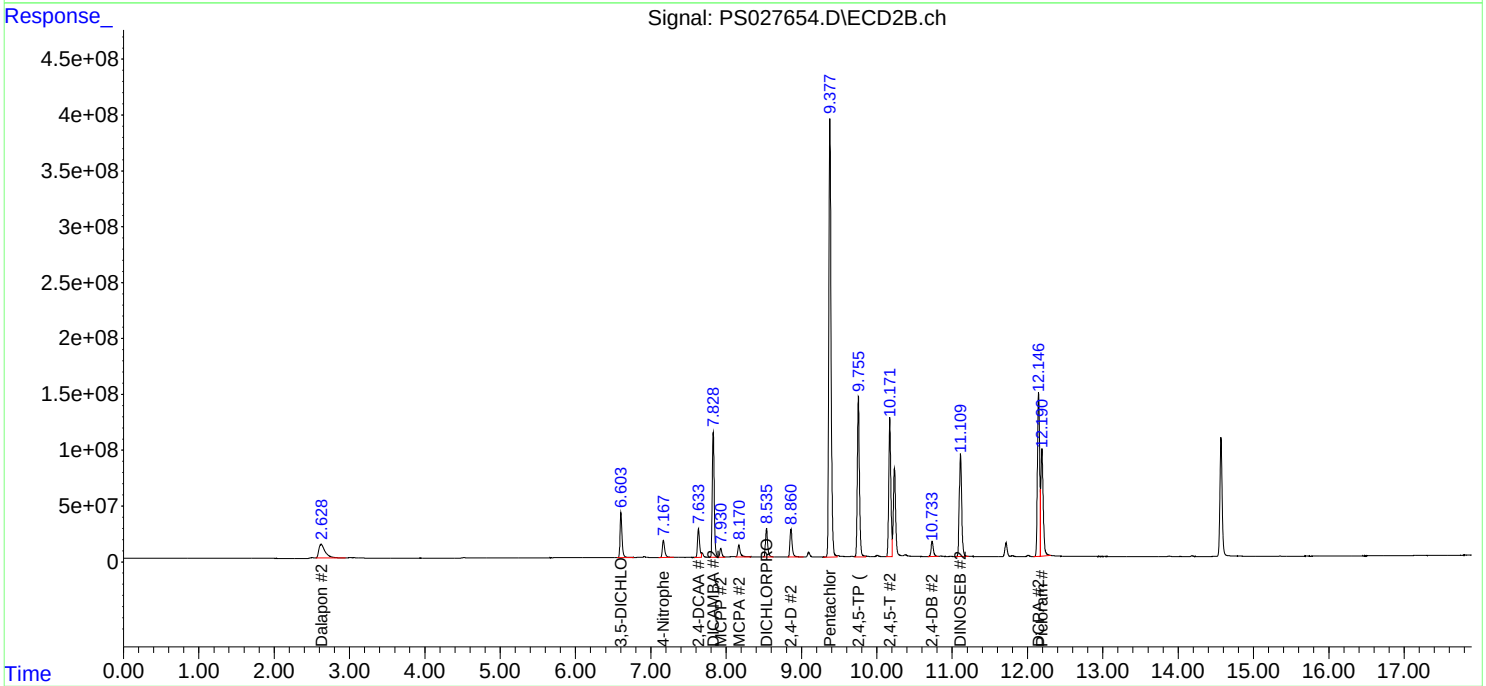
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027654.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 21:48
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

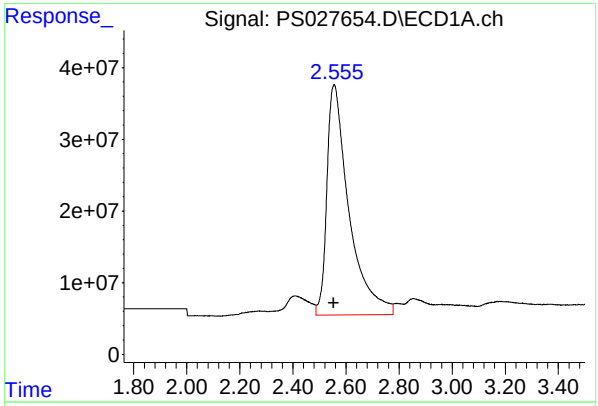
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:34:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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



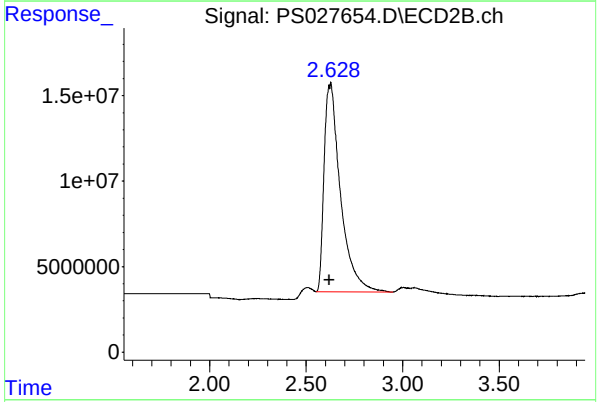




#1 Dalapon

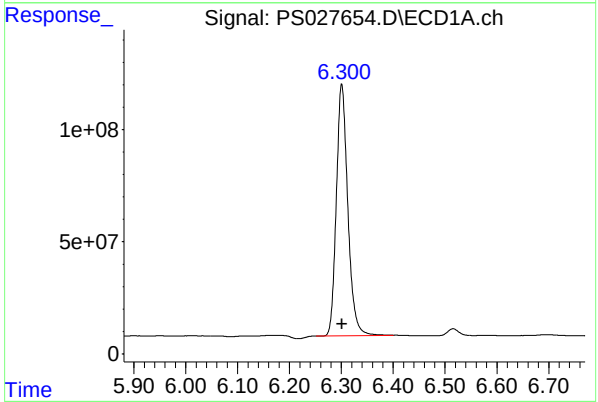
R.T.: 2.556 min
Delta R.T.: 0.002 min
Response: 1858142317
Conc: 475.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



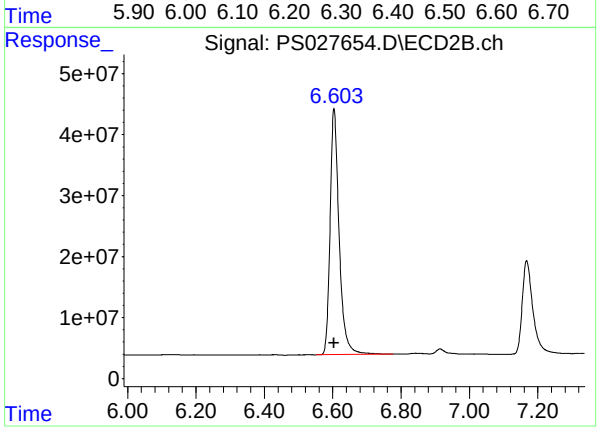
#1 Dalapon

R.T.: 2.628 min
Delta R.T.: 0.008 min
Response: 718902081
Conc: 438.34 ng/ml



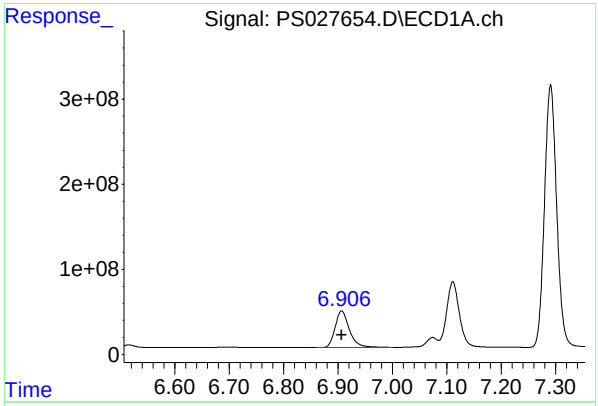
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 1728362972
Conc: 493.19 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

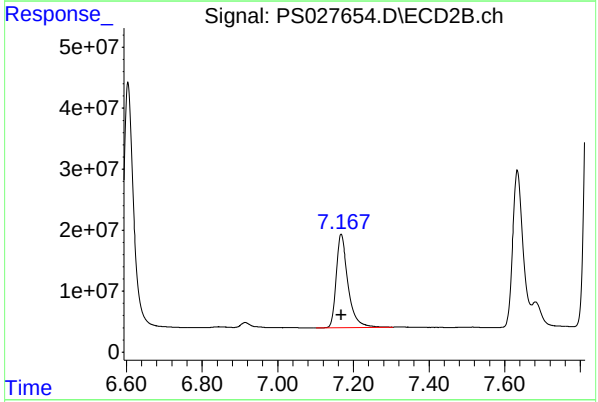
R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 740199595
Conc: 469.73 ng/ml



#3 4-Nitrophenol

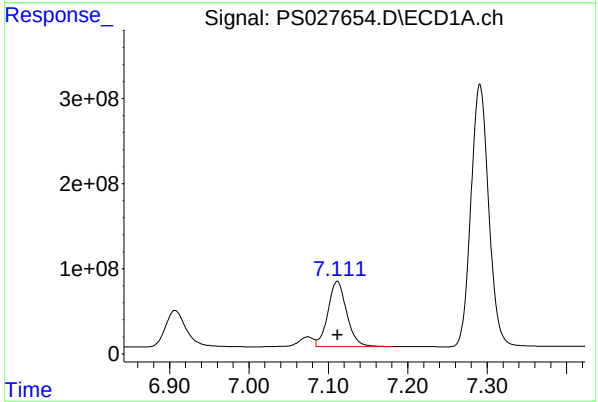
R.T.: 6.907 min
Delta R.T.: 0.000 min
Response: 782366630
Conc: 481.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



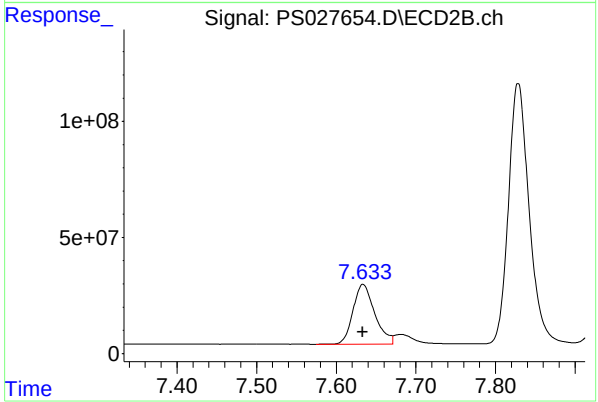
#3 4-Nitrophenol

R.T.: 7.168 min
Delta R.T.: 0.000 min
Response: 330467804
Conc: 481.92 ng/ml



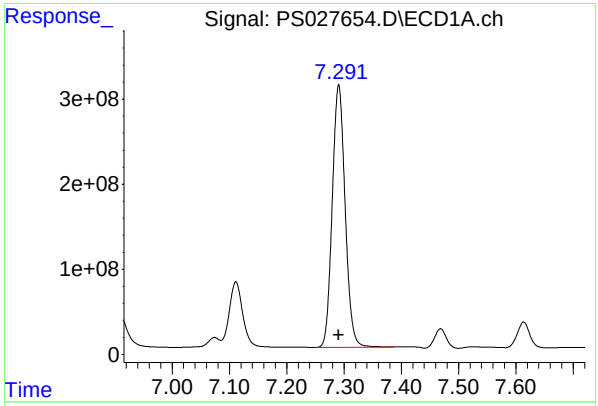
#4 2,4-DCAA

R.T.: 7.111 min
Delta R.T.: 0.000 min
Response: 1259308035
Conc: 528.29 ng/ml



#4 2,4-DCAA

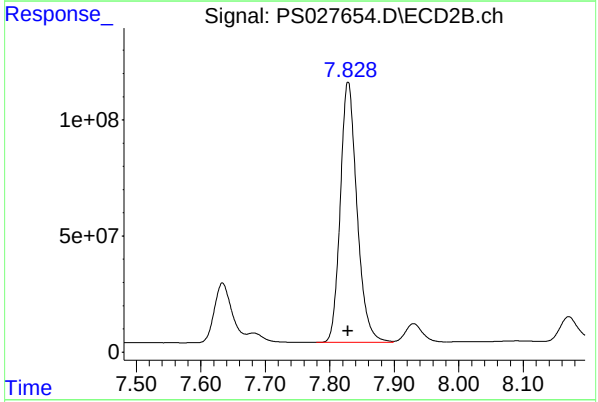
R.T.: 7.634 min
Delta R.T.: 0.000 min
Response: 489194745
Conc: 505.27 ng/ml



#5 DICAMBA

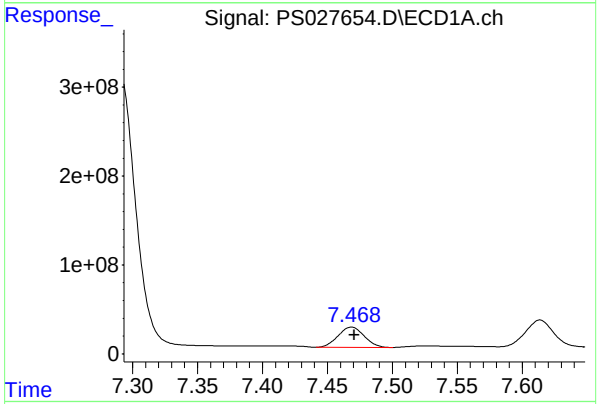
R.T.: 7.291 min
Delta R.T.: 0.000 min
Response: 4798951756
Conc: 487.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



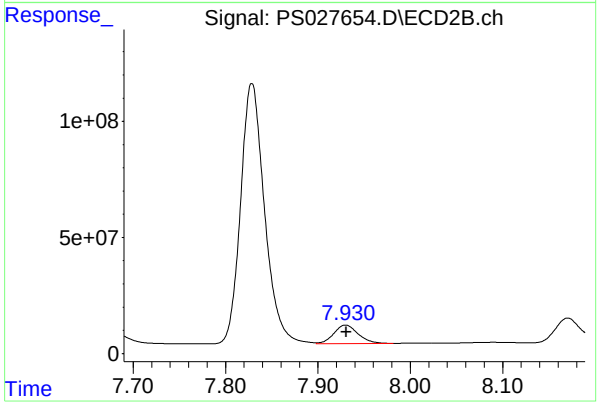
#5 DICAMBA

R.T.: 7.829 min
Delta R.T.: 0.000 min
Response: 2020594296
Conc: 455.02 ng/ml



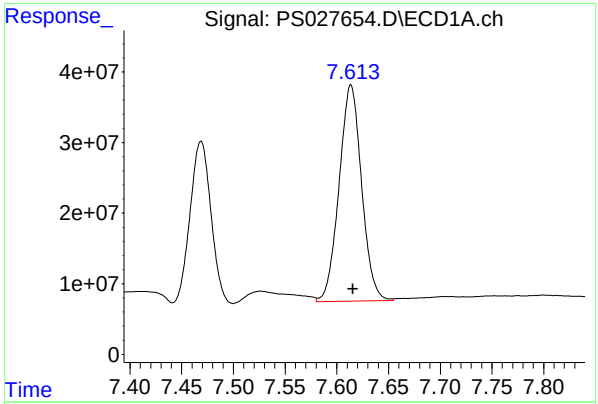
#6 MCPP

R.T.: 7.469 min
Delta R.T.: -0.002 min
Response: 319228754
Conc: 45.38 ug/ml



#6 MCPP

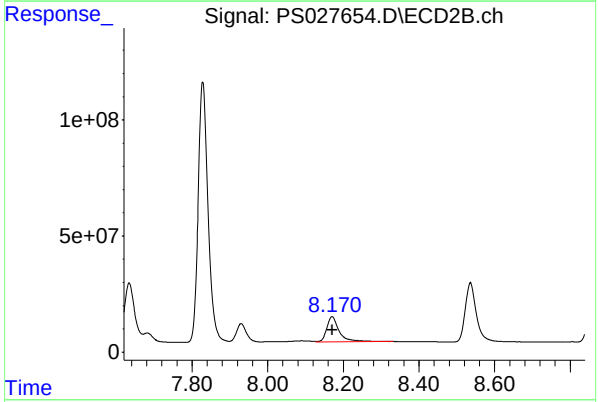
R.T.: 7.930 min
Delta R.T.: 0.000 min
Response: 147068518
Conc: 43.66 ug/ml



#7 MCPA

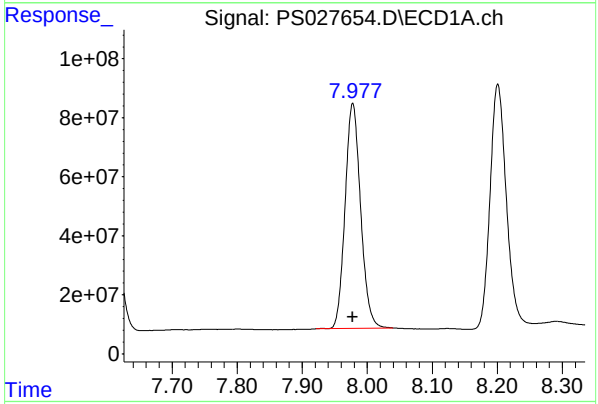
R.T.: 7.614 min
Delta R.T.: -0.002 mi
Response: 463910285
Conc: 46.58 ug/m

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



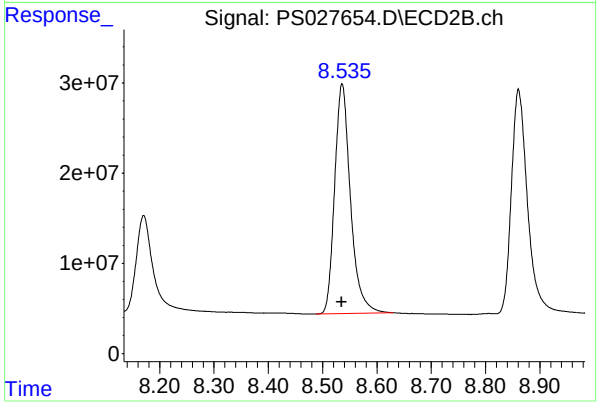
#7 MCPA

R.T.: 8.171 min
Delta R.T.: 0.000 min
Response: 244113341
Conc: 48.84 ug/ml



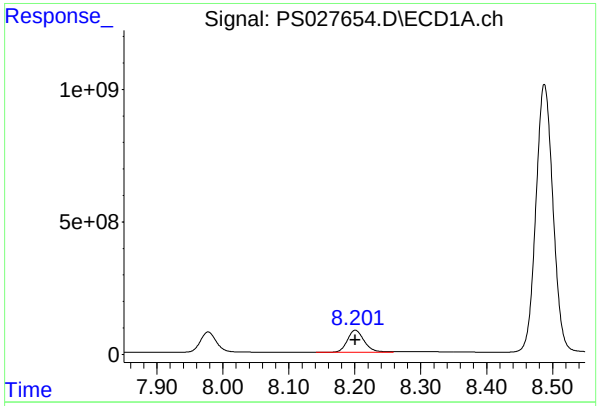
#8 DICHLORPROP

R.T.: 7.978 min
Delta R.T.: 0.000 min
Response: 1268412195
Conc: 498.33 ng/ml



#8 DICHLORPROP

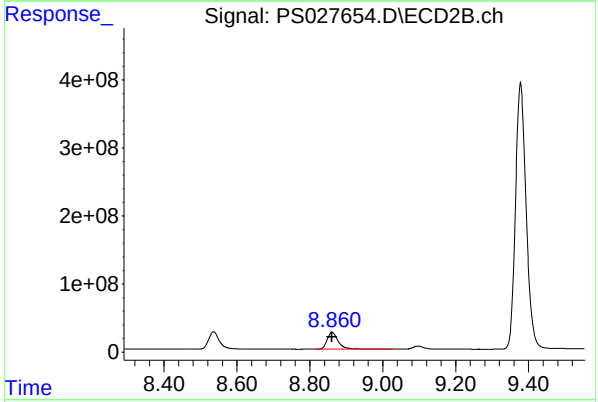
R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 516414299
Conc: 470.75 ng/ml



#9 2,4-D

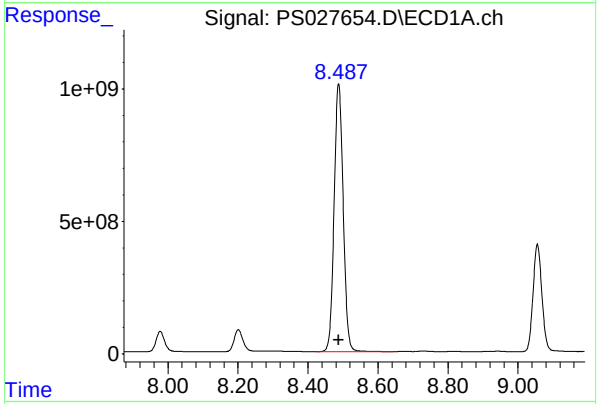
R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 1463488462
Conc: 494.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



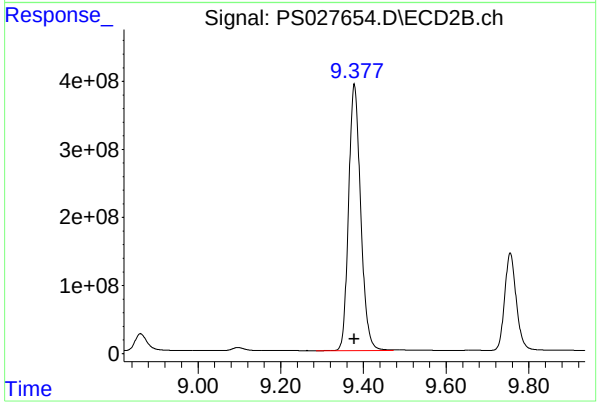
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 516362432
Conc: 468.02 ng/ml



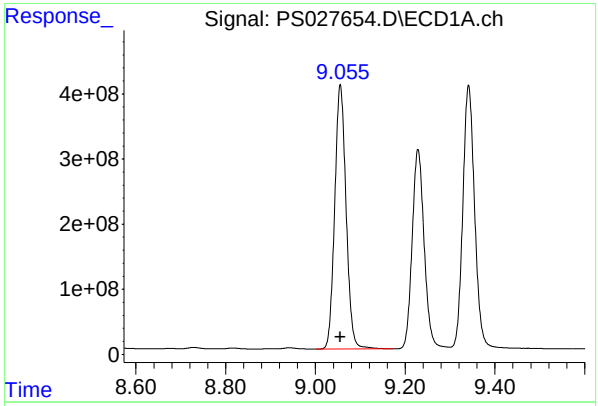
#10 Pentachlorophenol

R.T.: 8.488 min
Delta R.T.: 0.000 min
Response: 18161861591
Conc: 522.70 ng/ml



#10 Pentachlorophenol

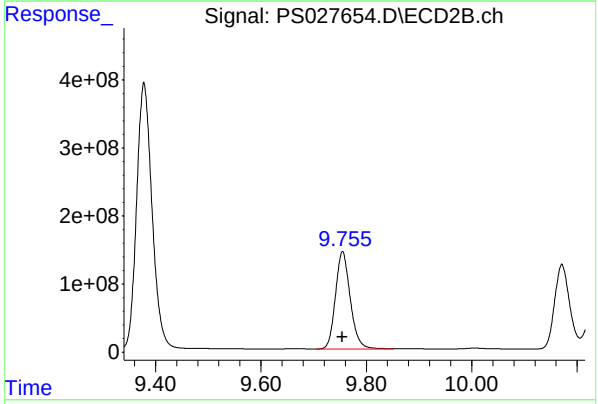
R.T.: 9.378 min
Delta R.T.: 0.000 min
Response: 7947862184
Conc: 484.20 ng/ml



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

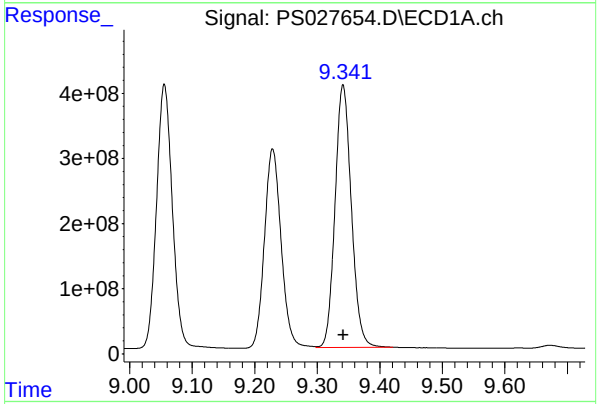
R.T.: 9.056 min
Delta R.T.: 0.000 min
Response: 7126820623
Conc: 502.82 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



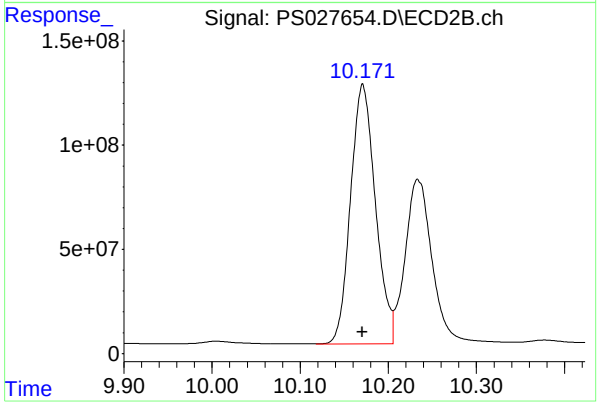
#11 2,4,5-TP (SILVEX)

R.T.: 9.755 min
Delta R.T.: 0.000 min
Response: 2806780253
Conc: 464.87 ng/ml



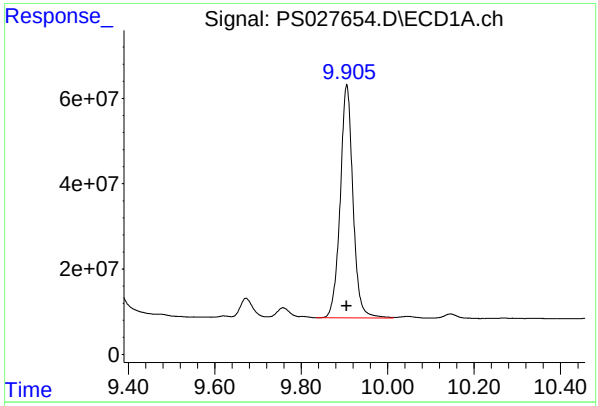
#12 2,4,5-T

R.T.: 9.341 min
Delta R.T.: 0.000 min
Response: 7306171143
Conc: 502.69 ng/ml



#12 2,4,5-T

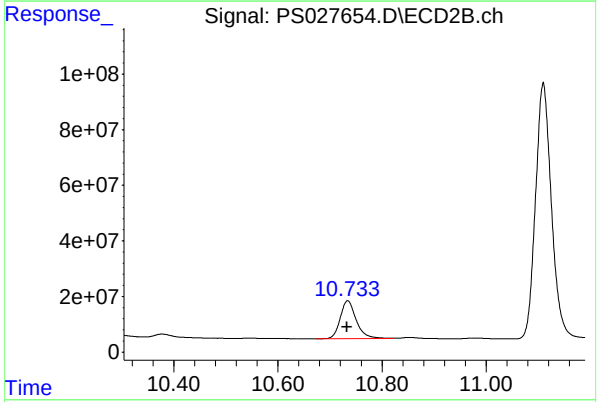
R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 2446693275
Conc: 465.52 ng/ml



#13 2,4-DB

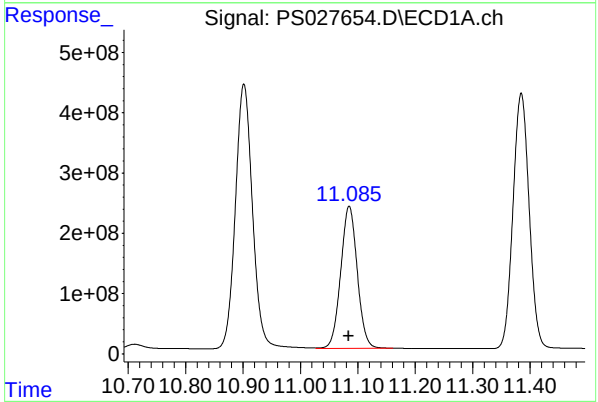
R.T.: 9.905 min
Delta R.T.: 0.000 min
Response: 1120496397
Conc: 492.94 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



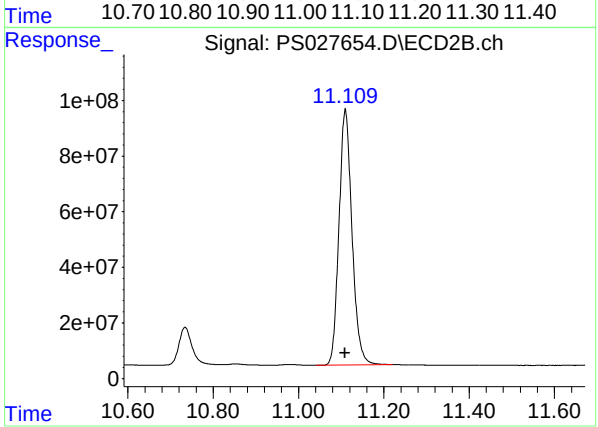
#13 2,4-DB

R.T.: 10.734 min
Delta R.T.: 0.000 min
Response: 289407063
Conc: 467.83 ng/ml



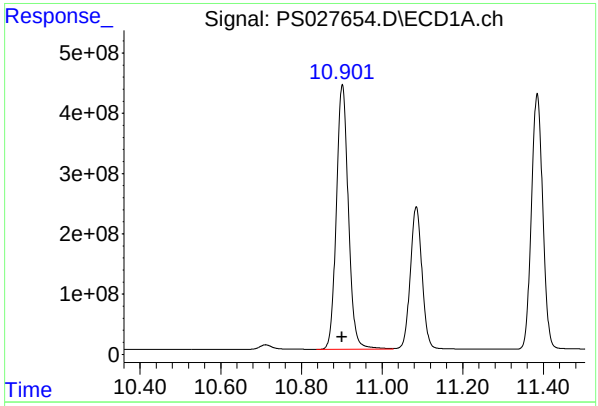
#14 DINOSEB

R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 4716084171
Conc: 501.20 ng/ml



#14 DINOSEB

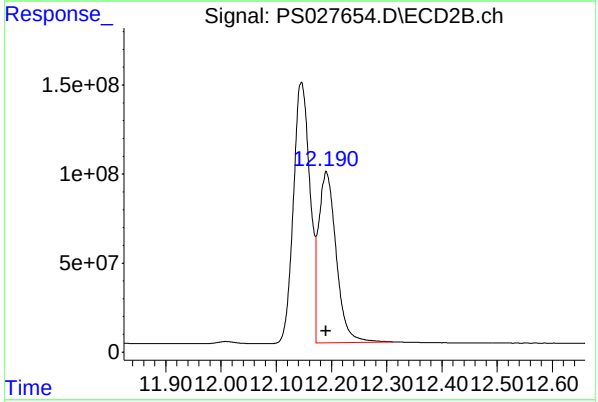
R.T.: 11.110 min
Delta R.T.: 0.000 min
Response: 1947763768
Conc: 469.90 ng/ml



#15 Picloram

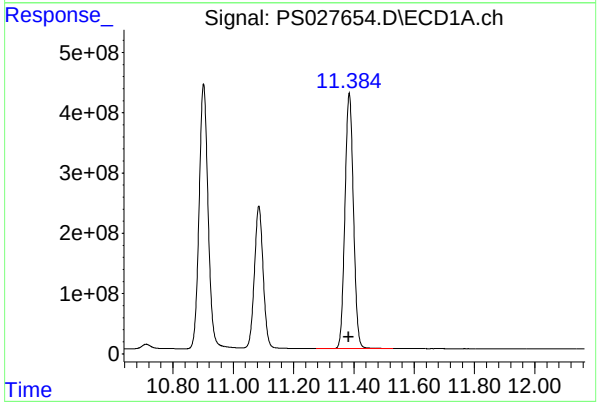
R.T.: 10.902 min
Delta R.T.: 0.000 min
Response: 9076027496
Conc: 490.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



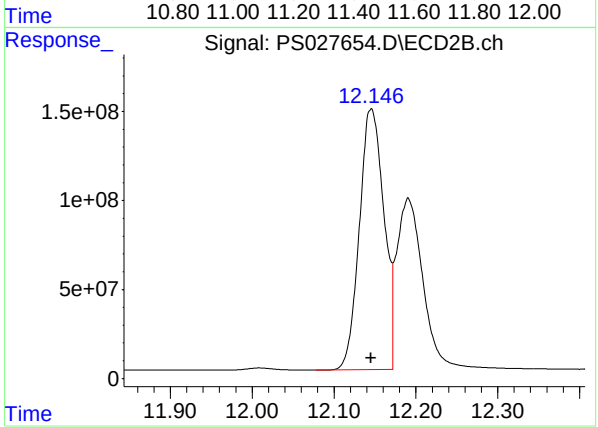
#15 Picloram

R.T.: 12.191 min
Delta R.T.: 0.000 min
Response: 2119193865
Conc: 428.34 ng/ml



#16 DCPA

R.T.: 11.385 min
Delta R.T.: 0.001 min
Response: 8262853693
Conc: 515.24 ng/ml



#16 DCPA

R.T.: 12.146 min
Delta R.T.: 0.000 min
Response: 3053310836
Conc: 473.80 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027655.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 22:12
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:42:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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	7.112	7.633	1806.5E6	735.9E6	726.217	742.526
	Target Compounds						
1) T	Dalapon	2.554	2.620	2695.9E6	1098.6E6	650.693	673.222
2) T	3,5-DICHL...	6.301	6.604	2470.3E6	1109.6E6	676.256	688.574
3) T	4-Nitroph...	6.907	7.168	1110.8E6	472.5E6	656.063	659.200
5) T	DICAMBA	7.291	7.828	7042.9E6	3168.8E6	696.964	719.142
6) T	MCPP	7.471	7.931	493.5E6	237.8E6	71.590	72.451
7) T	MCPA	7.616	8.172	698.7E6	353.4E6	68.977	66.753
8) T	DICHLORPROP	7.978	8.535	1807.8E6	779.7E6	681.957	697.921
9) T	2,4-D	8.201	8.861	2100.6E6	777.8E6	685.305	697.561
10) T	Pentachlo...	8.488	9.378	25481.5E6	11979.5E6	700.595	724.609
11) T	2,4,5-TP ...	9.056	9.755	10275.1E6	4359.8E6	702.091	727.125
12) T	2,4,5-T	9.342	10.170	10496.7E6	3754.4E6	701.286	718.291
13) T	2,4-DB	9.905	10.733	1614.2E6	436.0E6	695.095	708.549
14) T	DINOSEB	11.084	11.109	6748.4E6	2974.9E6	689.961	707.362
15) T	Picloram	10.901	12.190	13217.5E6	3467.4E6	706.527	746.106
16) T	DCPA	11.383	12.145	11688.8E6	4670.1E6	704.257	724.592

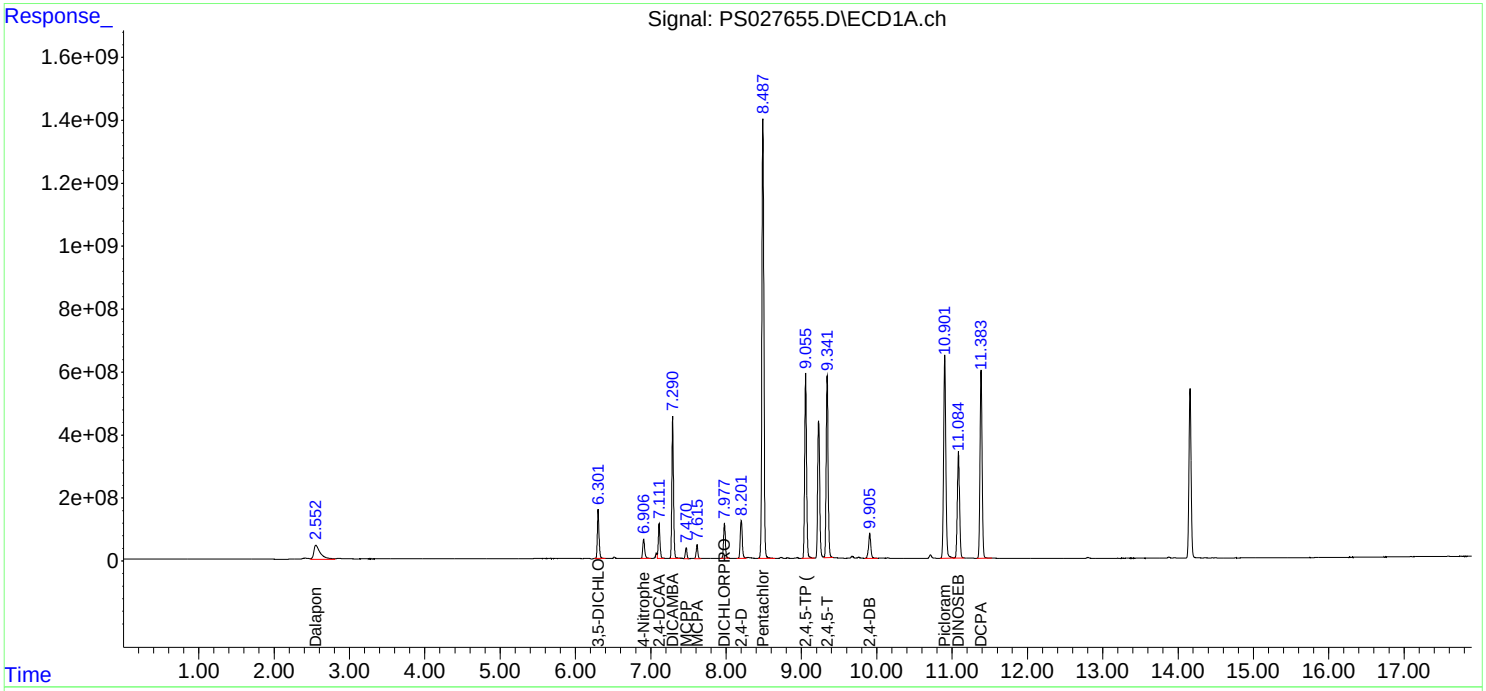
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

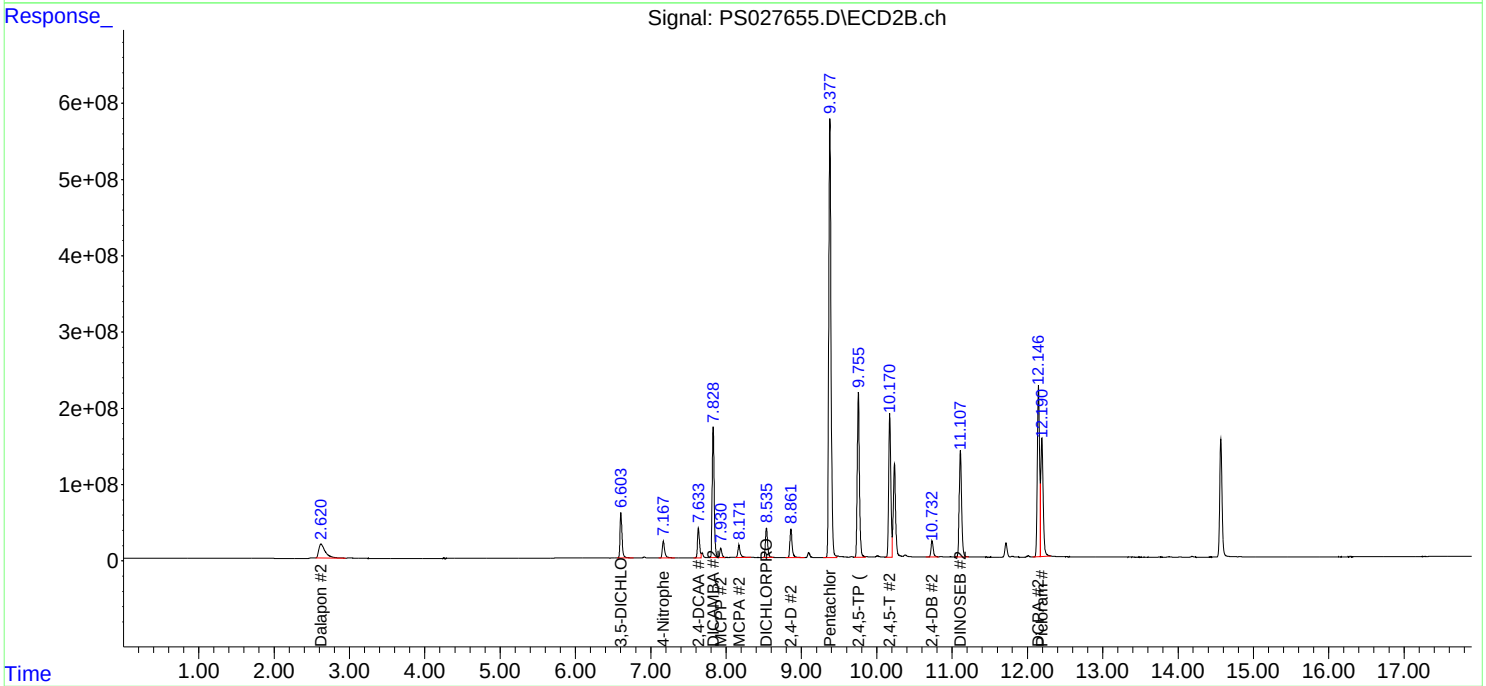
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027655.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 22:12
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

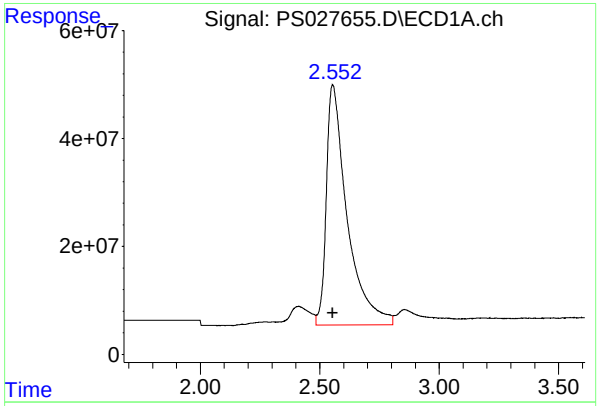
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:42:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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



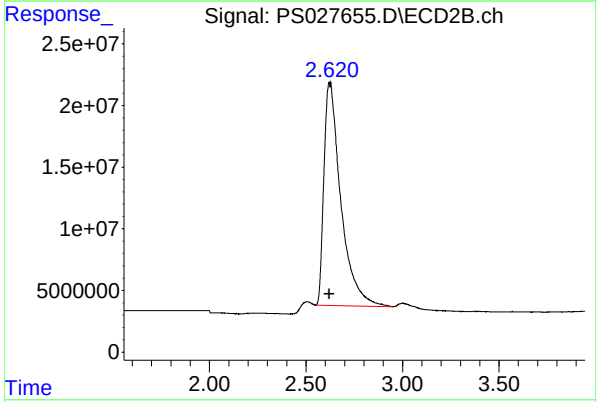




#1 Dalapon

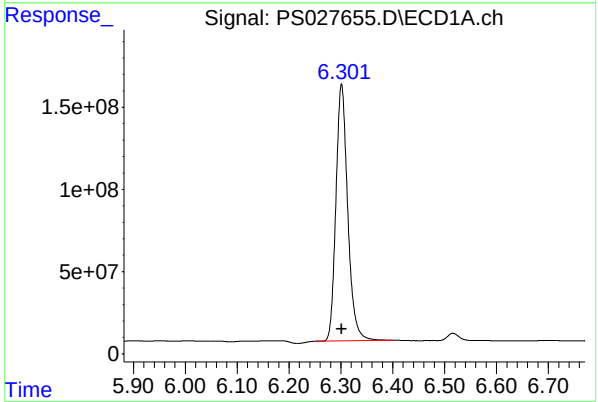
R.T.: 2.554 min
Delta R.T.: 0.000 min
Response: 2695874700
Conc: 650.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



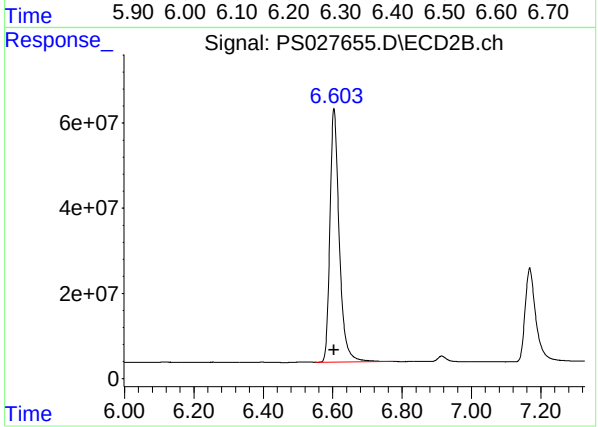
#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1098605014
Conc: 673.22 ng/ml



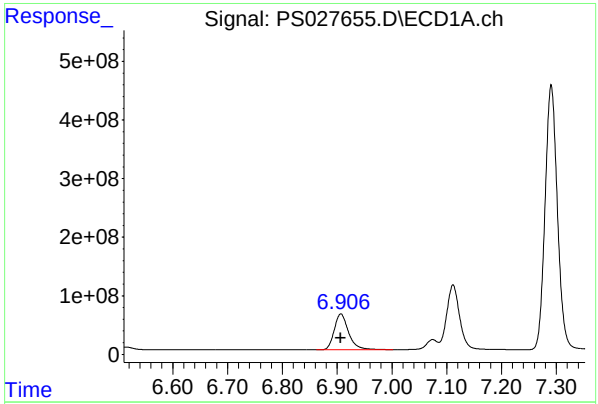
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 2470269148
Conc: 676.26 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

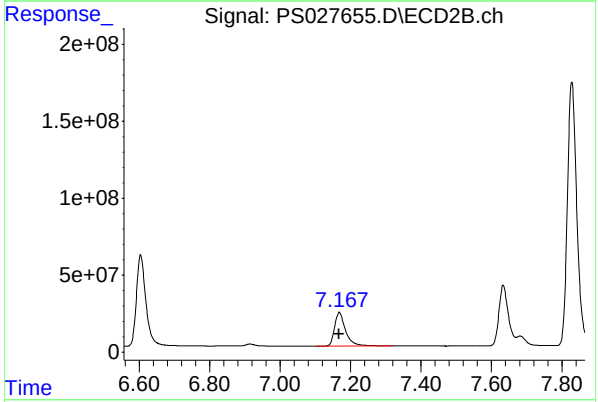
R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 1109586810
Conc: 688.57 ng/ml



#3 4-Nitrophenol

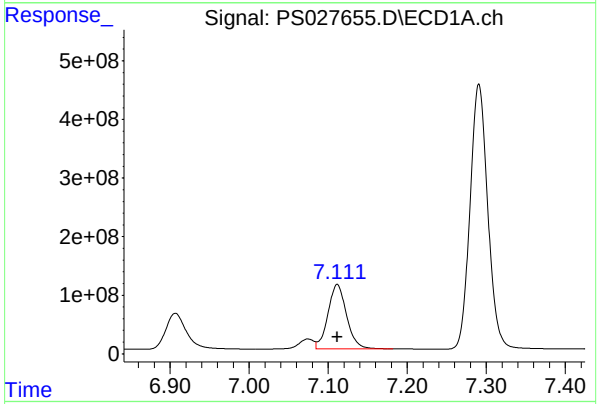
R.T.: 6.907 min
Delta R.T.: 0.000 min
Response: 1110796690
Conc: 656.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



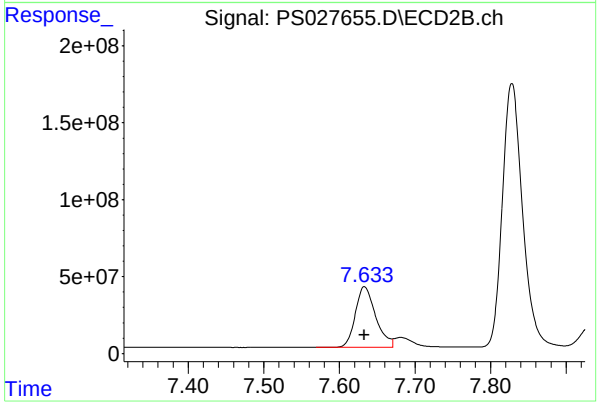
#3 4-Nitrophenol

R.T.: 7.168 min
Delta R.T.: 0.000 min
Response: 472508291
Conc: 659.20 ng/ml



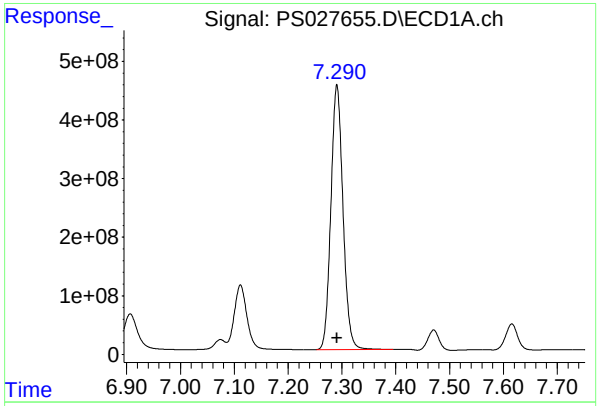
#4 2,4-DCAA

R.T.: 7.112 min
Delta R.T.: 0.000 min
Response: 1806542583
Conc: 726.22 ng/ml



#4 2,4-DCAA

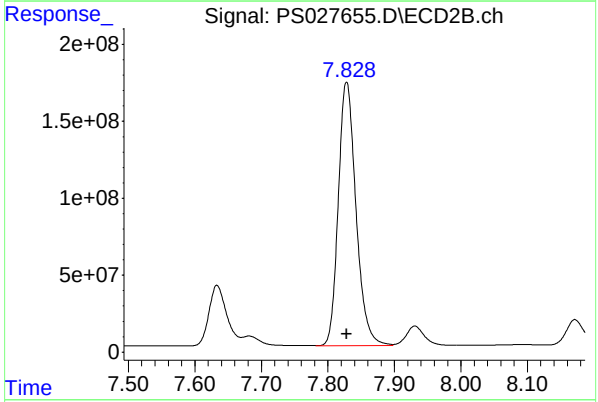
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 735868113
Conc: 742.53 ng/ml



#5 DICAMBA

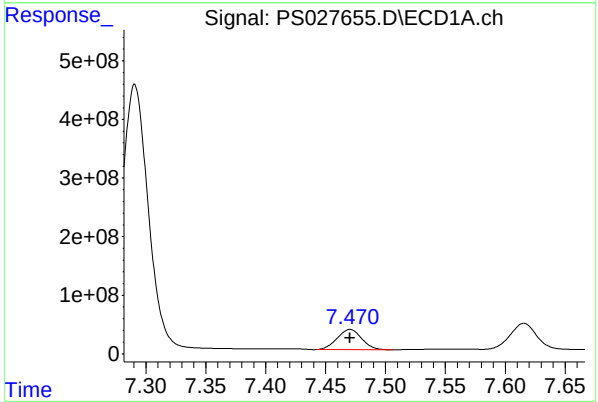
R.T.: 7.291 min
Delta R.T.: 0.000 min
Response: 7042930875
Conc: 696.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



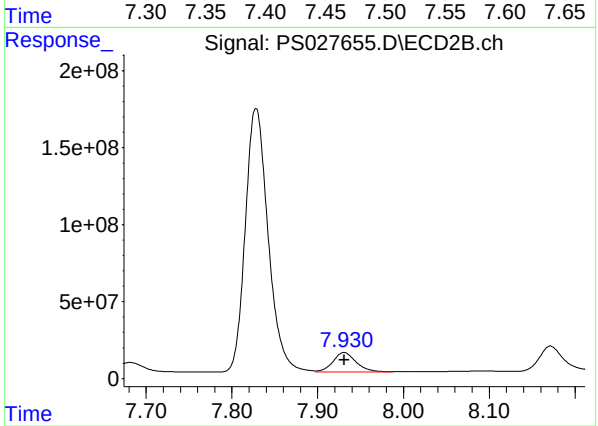
#5 DICAMBA

R.T.: 7.828 min
Delta R.T.: 0.000 min
Response: 3168811449
Conc: 719.14 ng/ml



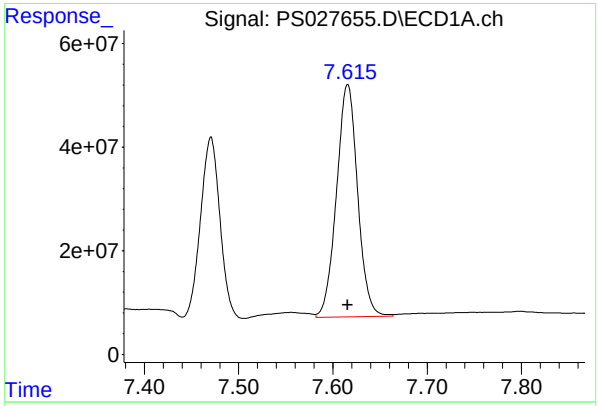
#6 MCPP

R.T.: 7.471 min
Delta R.T.: 0.000 min
Response: 493517322
Conc: 71.59 ug/ml



#6 MCPP

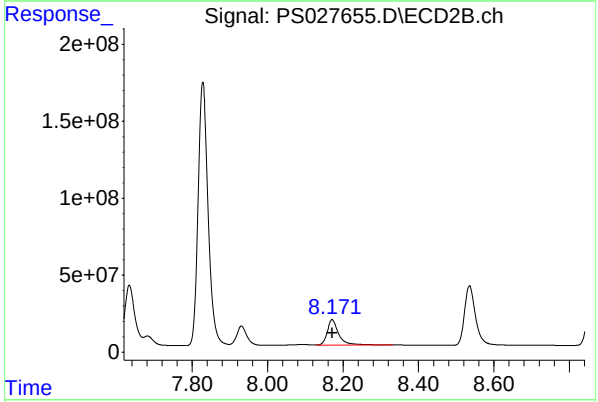
R.T.: 7.931 min
Delta R.T.: 0.000 min
Response: 237817890
Conc: 72.45 ug/ml



#7 MCPA

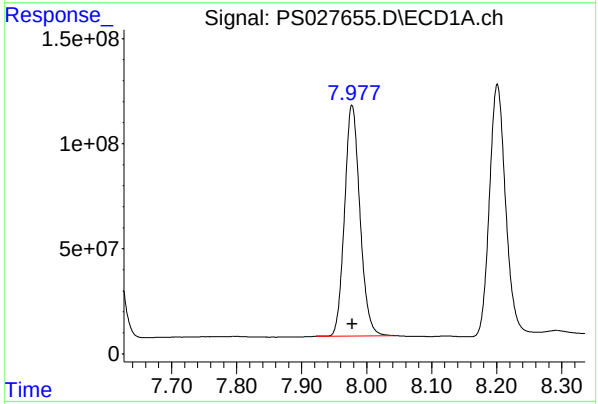
R.T.: 7.616 min
Delta R.T.: 0.000 min
Response: 698735833
Conc: 68.98 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



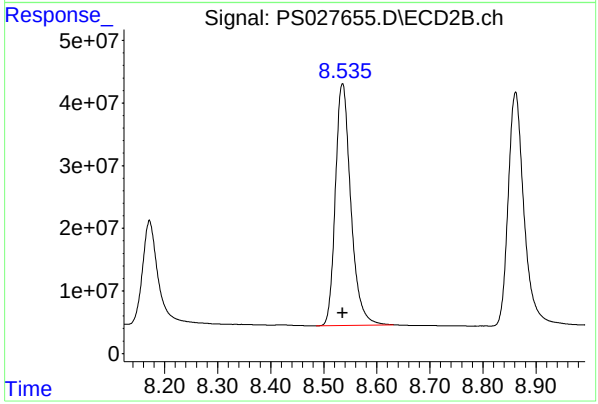
#7 MCPA

R.T.: 8.172 min
Delta R.T.: 0.000 min
Response: 353369670
Conc: 66.75 ug/ml



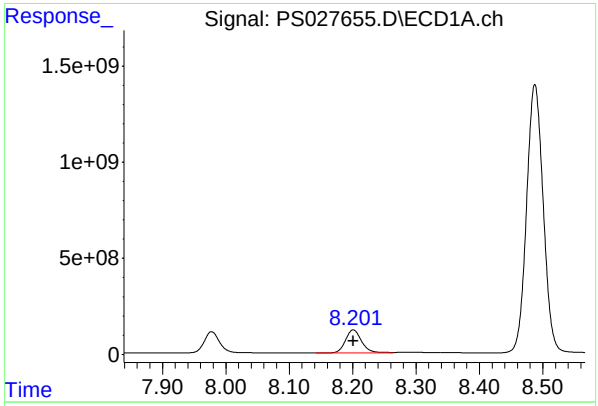
#8 DICHLORPROP

R.T.: 7.978 min
Delta R.T.: 0.000 min
Response: 1807791108
Conc: 681.96 ng/ml



#8 DICHLORPROP

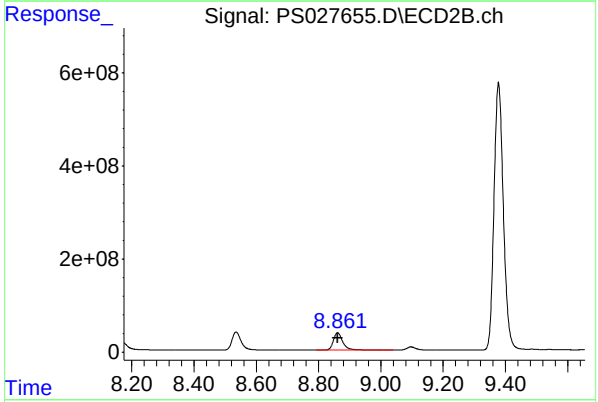
R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 779734560
Conc: 697.92 ng/ml



#9 2,4-D

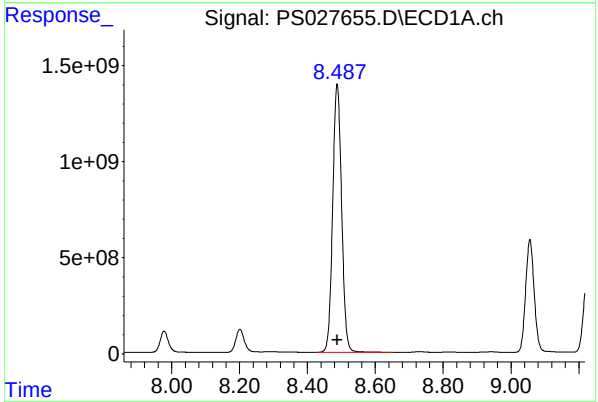
R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 2100621119
Conc: 685.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



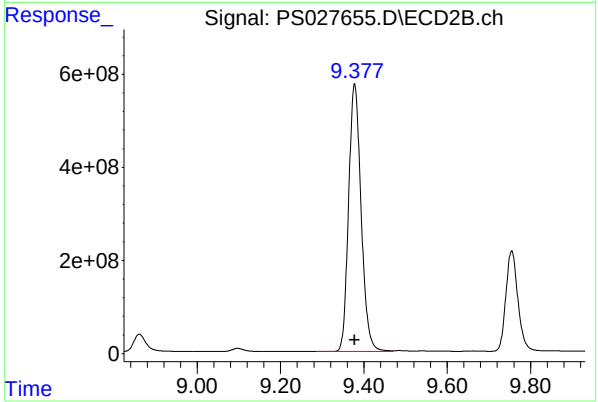
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 777791707
Conc: 697.56 ng/ml



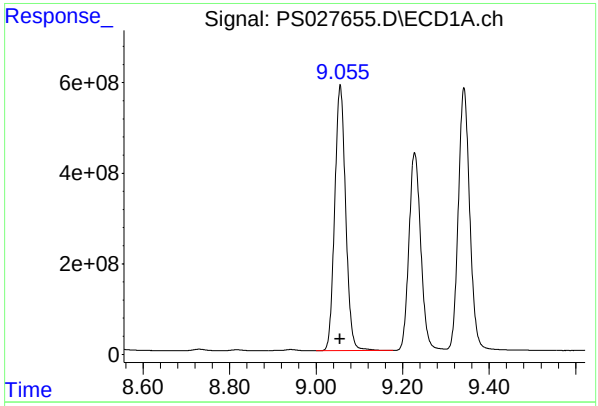
#10 Pentachlorophenol

R.T.: 8.488 min
Delta R.T.: 0.000 min
Response: 25481478895
Conc: 700.60 ng/ml



#10 Pentachlorophenol

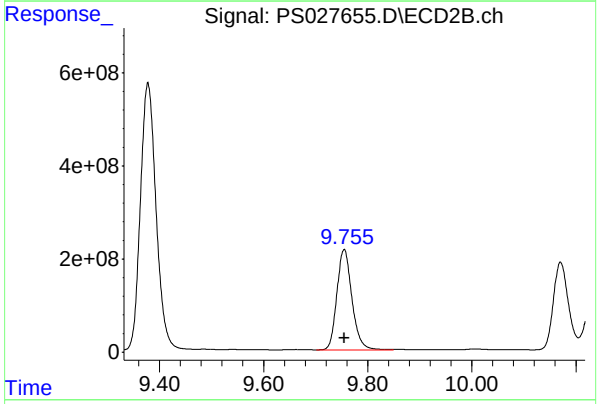
R.T.: 9.378 min
Delta R.T.: 0.000 min
Response: 11979500351
Conc: 724.61 ng/ml



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

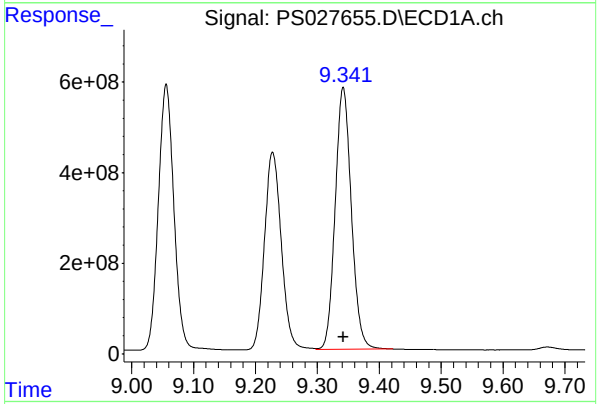
R.T.: 9.056 min
Delta R.T.: 0.000 min
Response: 10275108997
Conc: 702.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



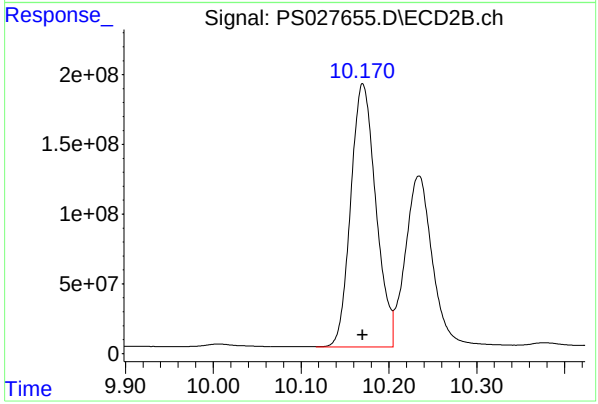
#11 2,4,5-TP (SILVEX)

R.T.: 9.755 min
Delta R.T.: 0.000 min
Response: 4359768621
Conc: 727.13 ng/ml



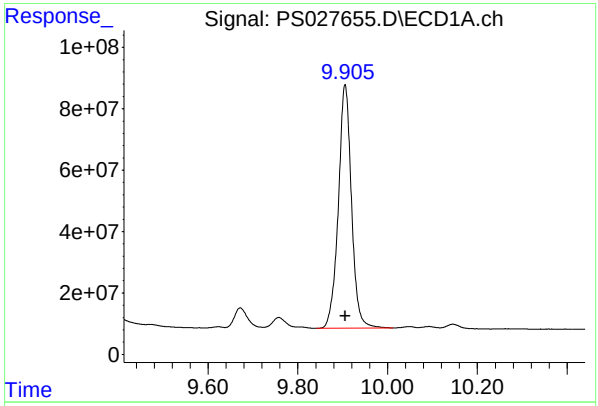
#12 2,4,5-T

R.T.: 9.342 min
Delta R.T.: 0.000 min
Response: 10496729313
Conc: 701.29 ng/ml



#12 2,4,5-T

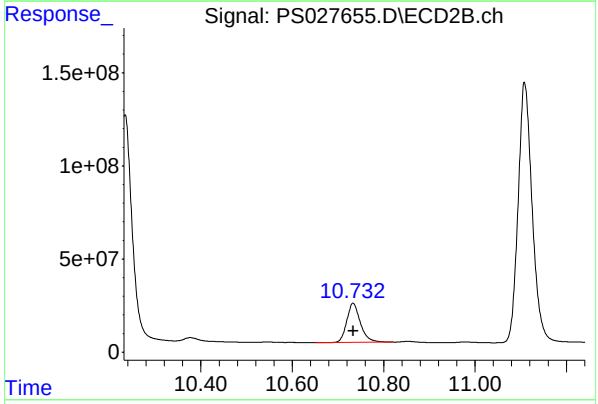
R.T.: 10.170 min
Delta R.T.: 0.000 min
Response: 3754378733
Conc: 718.29 ng/ml



#13 2,4-DB

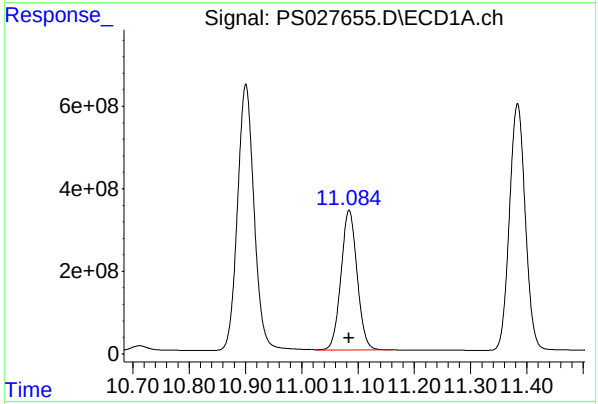
R.T.: 9.905 min
Delta R.T.: 0.000 min
Response: 1614162302
Conc: 695.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



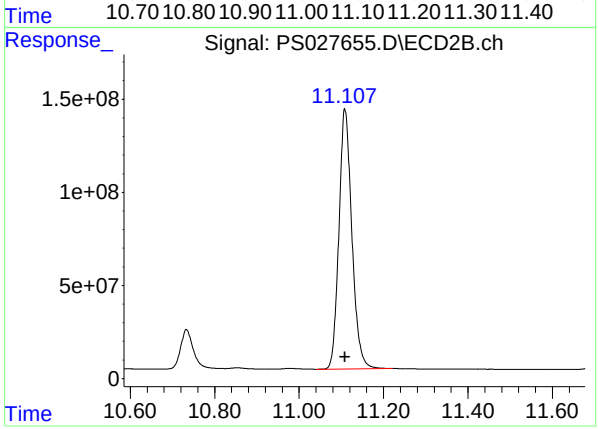
#13 2,4-DB

R.T.: 10.733 min
Delta R.T.: 0.000 min
Response: 435971479
Conc: 708.55 ng/ml



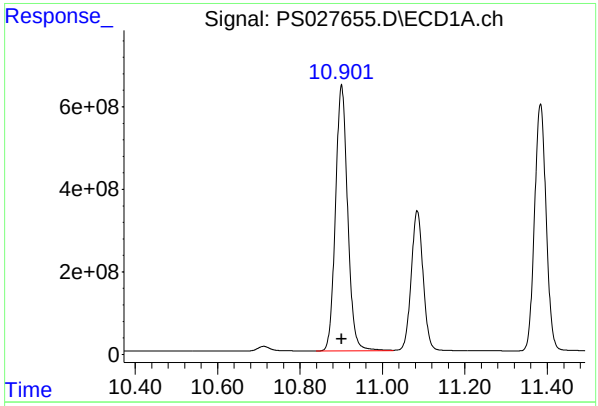
#14 DINOSEB

R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 6748418877
Conc: 689.96 ng/ml



#14 DINOSEB

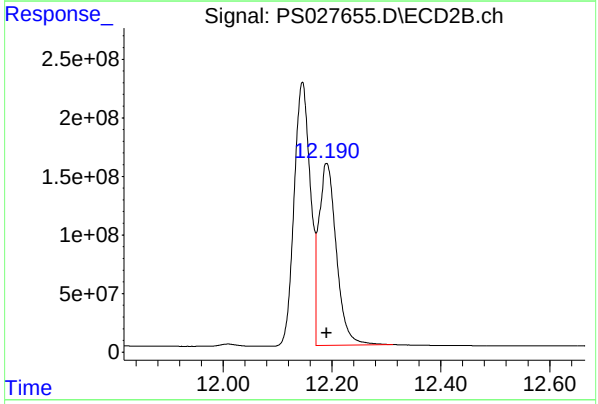
R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 2974873002
Conc: 707.36 ng/ml



#15 Picloram

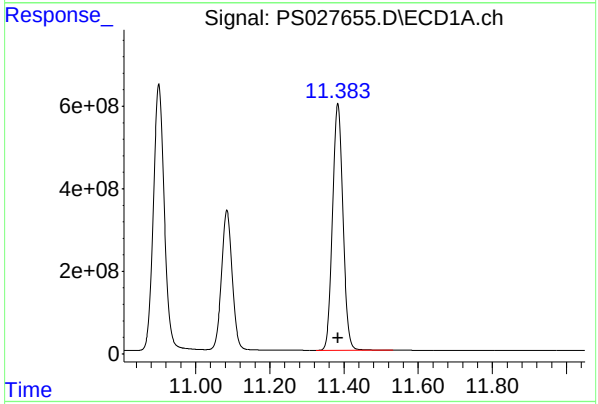
R.T.: 10.901 min
Delta R.T.: 0.000 min
Response: 13217522652
Conc: 706.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



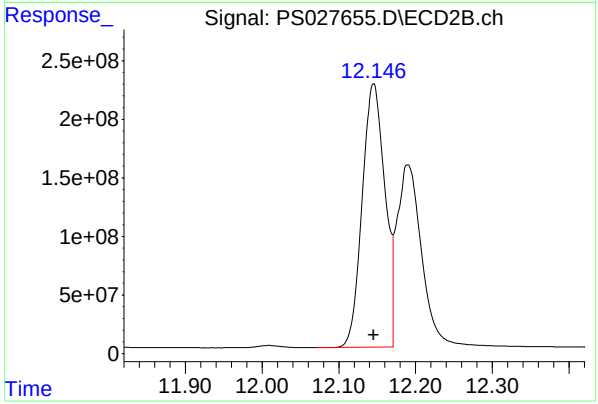
#15 Picloram

R.T.: 12.190 min
Delta R.T.: 0.000 min
Response: 3467409674
Conc: 746.11 ng/ml



#16 DCPA

R.T.: 11.383 min
Delta R.T.: 0.000 min
Response: 11688809934
Conc: 704.26 ng/ml



#16 DCPA

R.T.: 12.145 min
Delta R.T.: 0.000 min
Response: 4670083388
Conc: 724.59 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027656.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 22:35
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:31:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.111	7.633	2392.2E6	972.4E6	1022.853	1007.840
	Target Compounds						
1) T	Dalapon	2.555	2.621	3567.9E6	1534.1E6	925.809	924.084
2) T	3,5-DICHL...	6.300	6.604	3246.9E6	1484.6E6	945.616	945.307
3) T	4-Nitroph...	6.906	7.167	1472.2E6	621.6E6	923.137	924.708
5) T	DICAMBA	7.290	7.829	9296.6E6	4235.2E6	956.681	943.700
6) T	MCPP	7.472	7.932	677.7E6	322.5E6	95.242	93.524
7) T	MCPA	7.618	8.174	934.5E6	461.5E6	93.882	93.895
8) T	DICHLORPROP	7.978	8.535	2383.0E6	1042.2E6	955.429	950.567
9) T	2,4-D	8.200	8.861	2780.5E6	1051.4E6	956.641	951.620
10) T	Pentachlo...	8.488	9.377	32866.0E6	15641.6E6	978.648	959.122
11) T	2,4,5-TP ...	9.055	9.755	13465.0E6	5820.9E6	968.914	957.267
12) T	2,4,5-T	9.341	10.171	13851.3E6	5104.1E6	971.899	964.708
13) T	2,4-DB	9.905	10.734	2172.4E6	593.0E6	967.873	953.831
14) T	DINOSEB	11.084	11.108	8746.9E6	3900.0E6	950.604	940.826
15) T	Picloram	10.900	12.191	17868.1E6	4821.2E6	975.144	943.588
16) T	DCPA	11.383	12.145	15328.1E6	6338.6E6	979.782	979.378

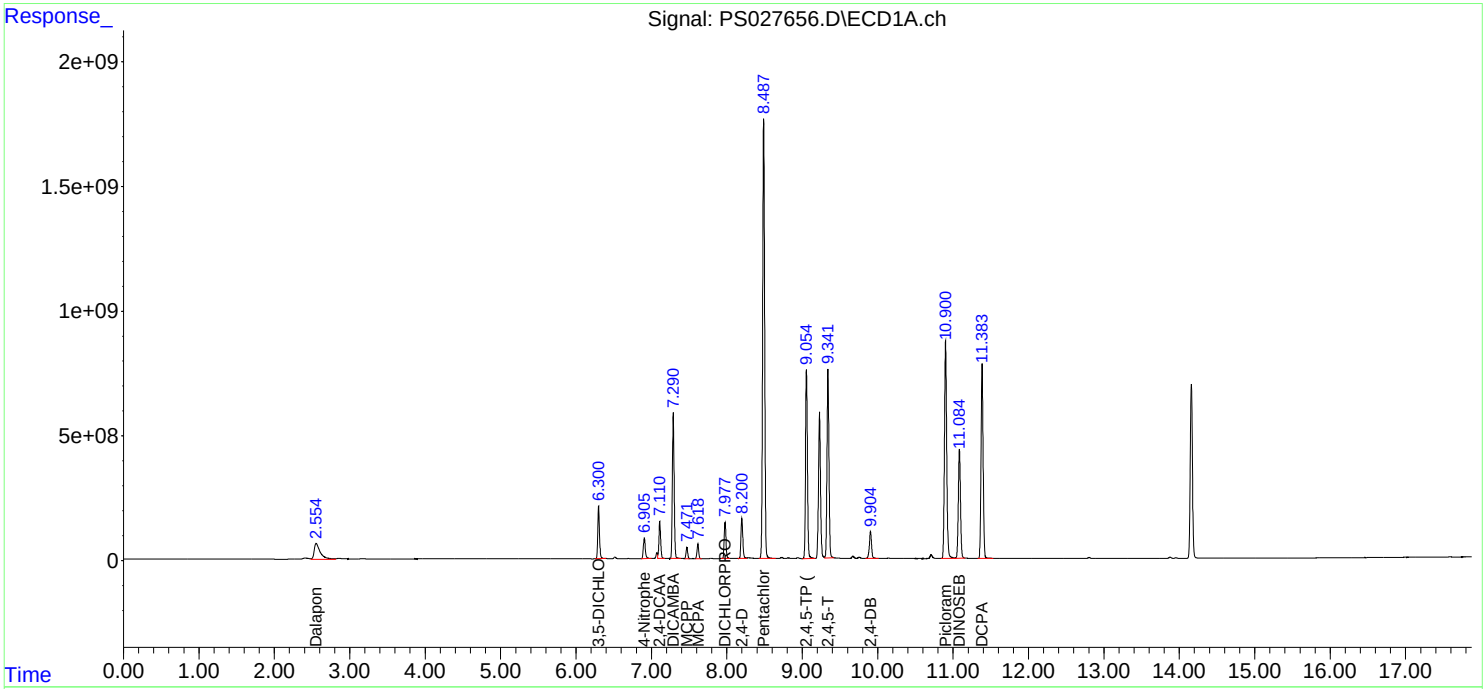
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

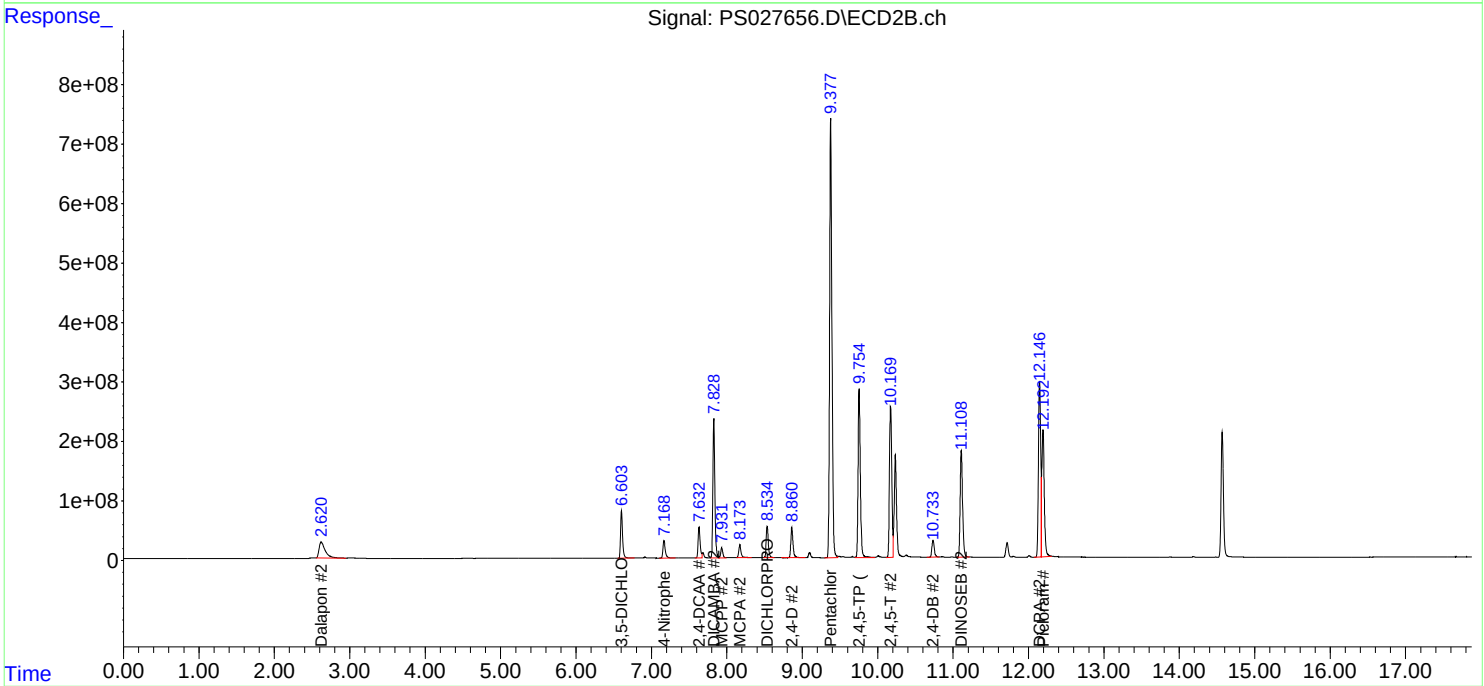
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027656.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 22:35
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

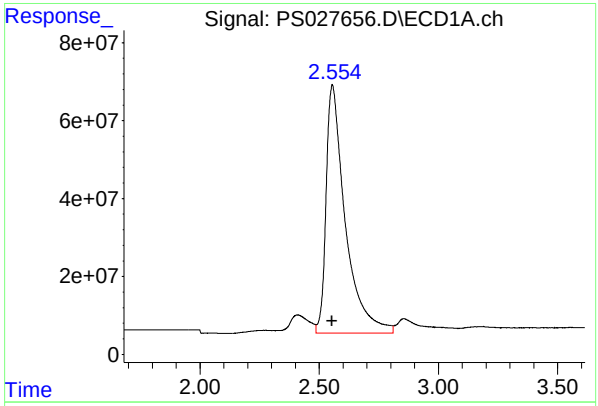
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:31:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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



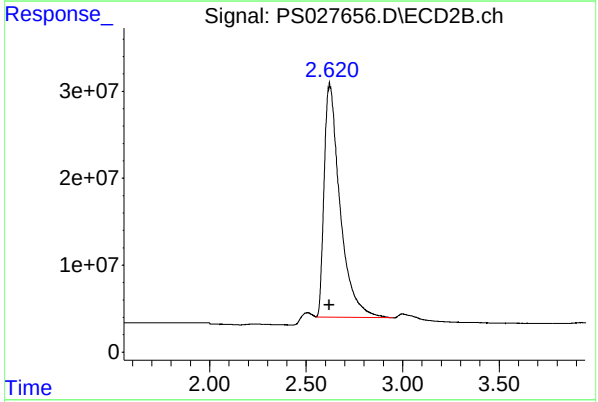




#1 Dalapon

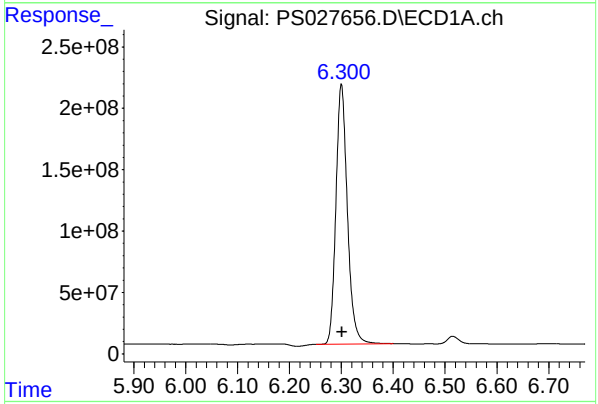
R.T.: 2.555 min
Delta R.T.: 0.000 min
Response: 3567912076
Conc: 925.81 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



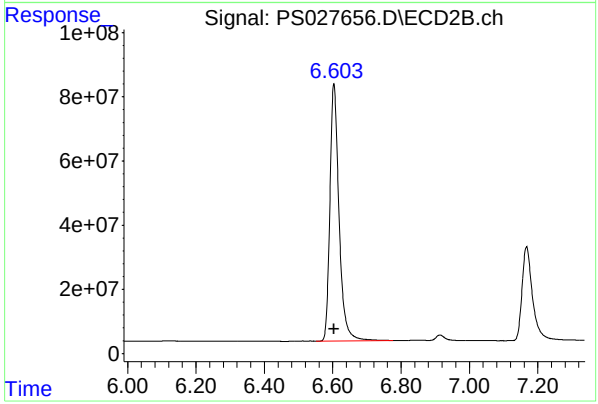
#1 Dalapon

R.T.: 2.621 min
Delta R.T.: 0.001 min
Response: 1534057323
Conc: 924.08 ng/ml



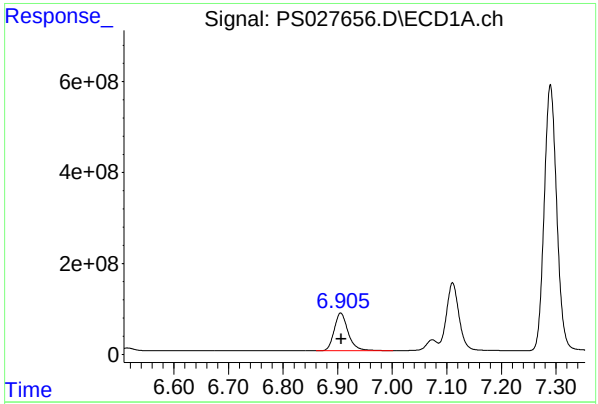
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.300 min
Delta R.T.: -0.001 min
Response: 3246905853
Conc: 945.62 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

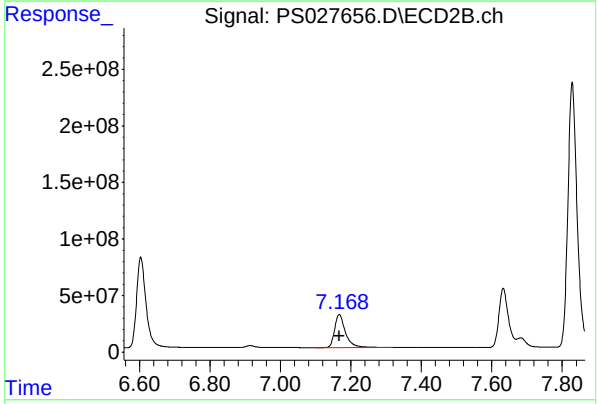
R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 1484570040
Conc: 945.31 ng/ml



#3 4-Nitrophenol

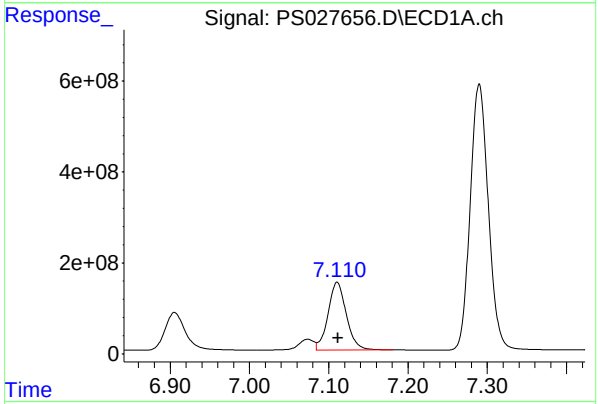
R.T.: 6.906 min
Delta R.T.: -0.001 min
Response: 1472170849
Conc: 923.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



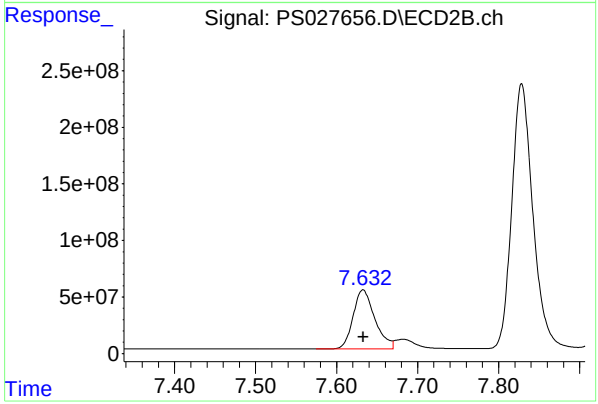
#3 4-Nitrophenol

R.T.: 7.167 min
Delta R.T.: 0.000 min
Response: 621604430
Conc: 924.71 ng/ml



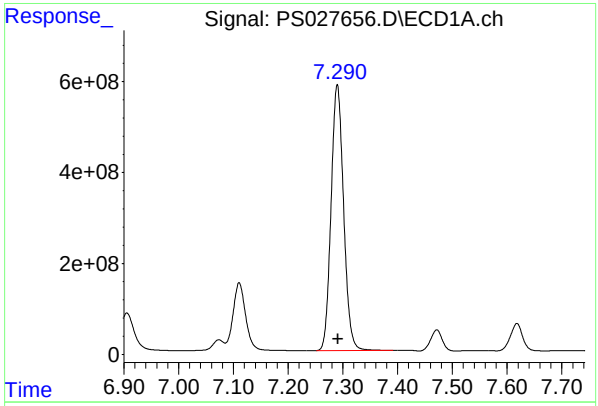
#4 2,4-DCAA

R.T.: 7.111 min
Delta R.T.: 0.000 min
Response: 2392236168
Conc: 1022.85 ng/ml



#4 2,4-DCAA

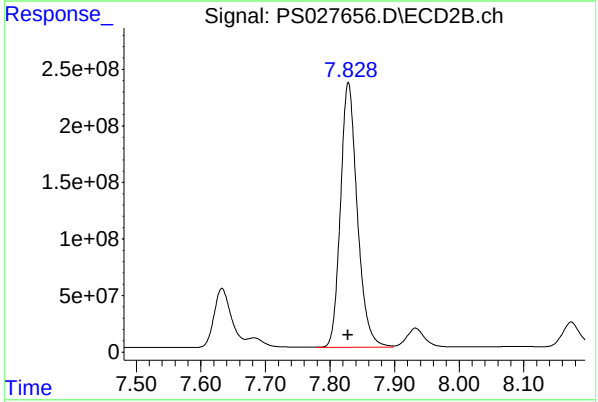
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 972355751
Conc: 1007.84 ng/ml



#5 DICAMBA

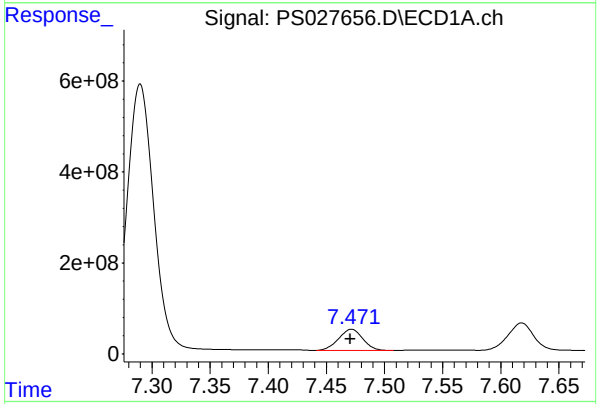
R.T.: 7.290 min
Delta R.T.: 0.000 min
Response: 9296616995
Conc: 956.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



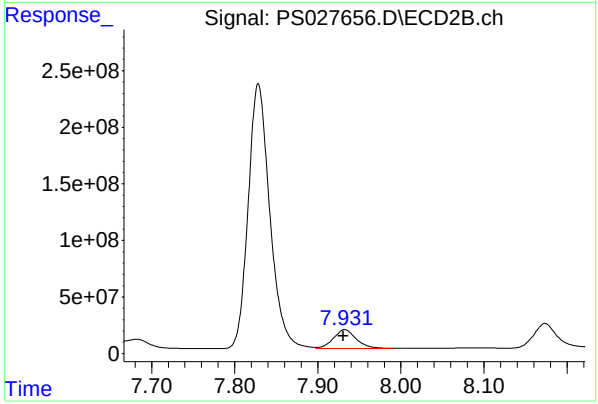
#5 DICAMBA

R.T.: 7.829 min
Delta R.T.: 0.000 min
Response: 4235205688
Conc: 943.70 ng/ml



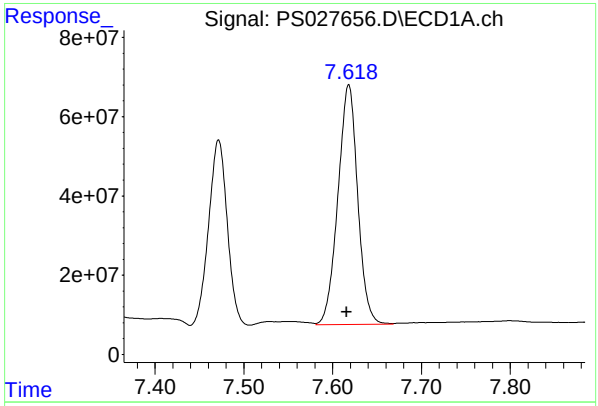
#6 MCPP

R.T.: 7.472 min
Delta R.T.: 0.001 min
Response: 677663164
Conc: 95.24 ug/ml



#6 MCPP

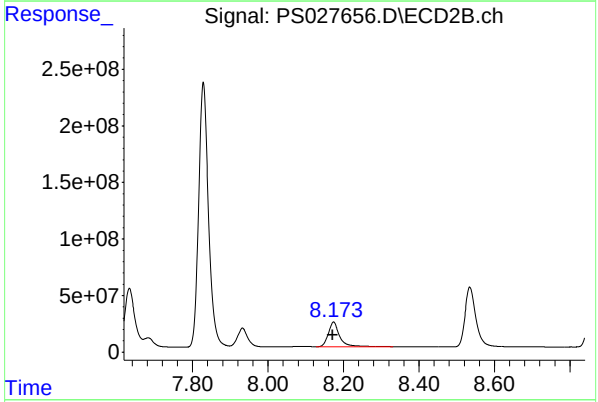
R.T.: 7.932 min
Delta R.T.: 0.002 min
Response: 322497751
Conc: 93.52 ug/ml



#7 MCPA

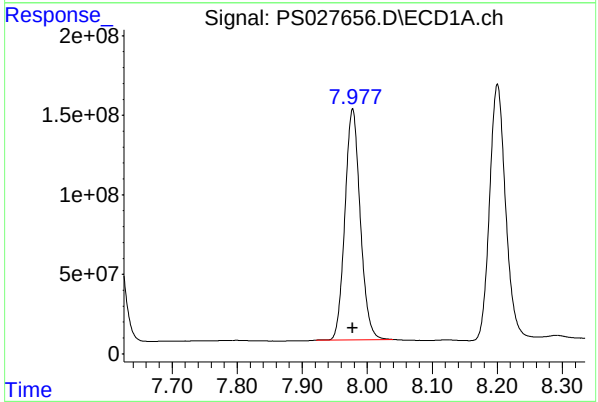
R.T.: 7.618 min
Delta R.T.: 0.002 min
Response: 934455578
Conc: 93.88 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



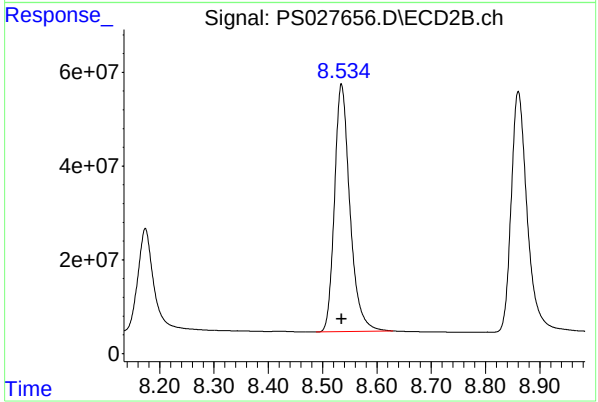
#7 MCPA

R.T.: 8.174 min
Delta R.T.: 0.002 min
Response: 461470378
Conc: 93.90 ug/ml



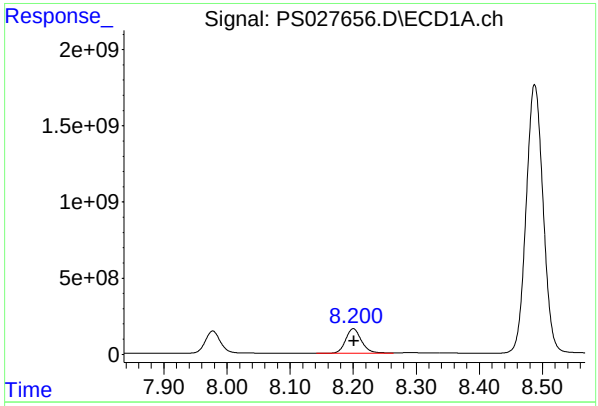
#8 DICHLORPROP

R.T.: 7.978 min
Delta R.T.: 0.000 min
Response: 2383039396
Conc: 955.43 ng/ml



#8 DICHLORPROP

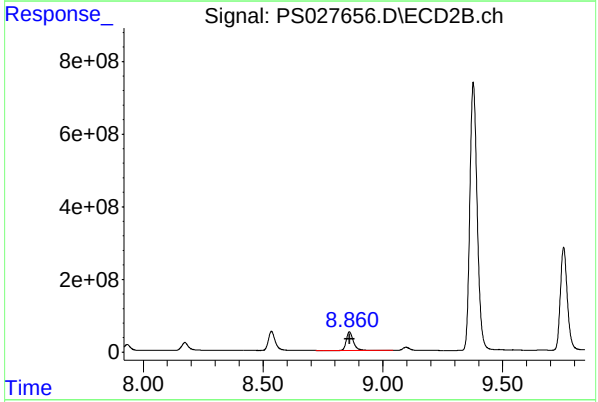
R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 1042207726
Conc: 950.57 ng/ml



#9 2,4-D

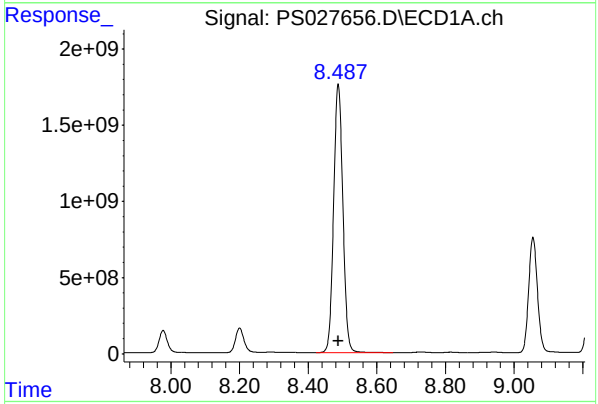
R.T.: 8.200 min
Delta R.T.: 0.000 min
Response: 2780522273
Conc: 956.64 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



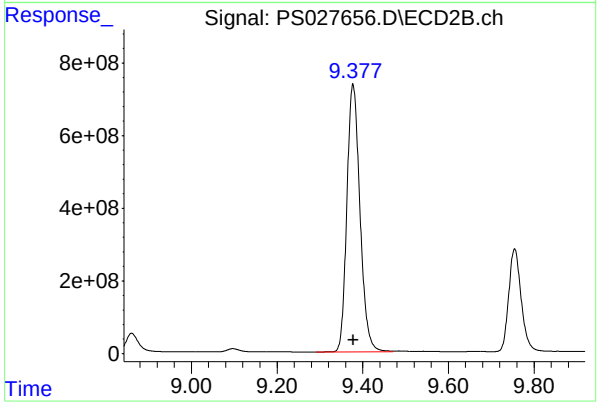
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 1051383029
Conc: 951.62 ng/ml



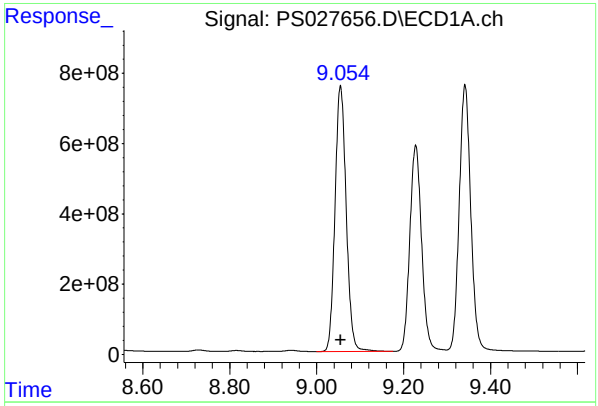
#10 Pentachlorophenol

R.T.: 8.488 min
Delta R.T.: 0.000 min
Response: 32865972776
Conc: 978.65 ng/ml



#10 Pentachlorophenol

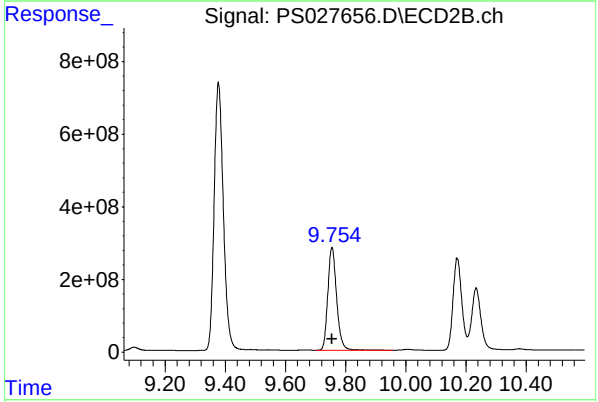
R.T.: 9.377 min
Delta R.T.: 0.000 min
Response: 15641584608
Conc: 959.12 ng/ml



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

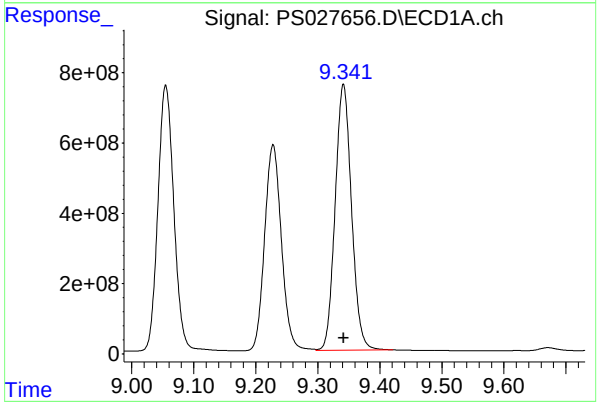
R.T.: 9.055 min
Delta R.T.: 0.000 min
Response: 13464964962
Conc: 968.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



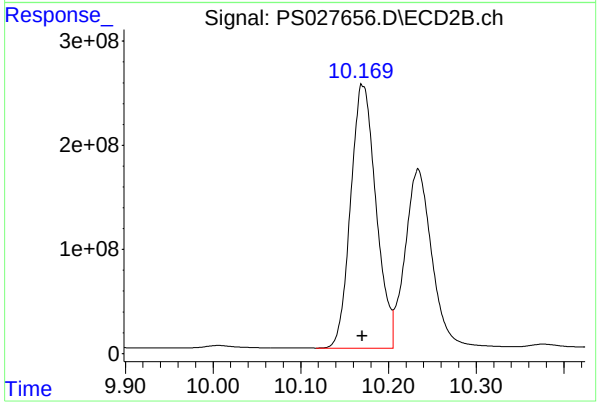
#11 2,4,5-TP (SILVEX)

R.T.: 9.755 min
Delta R.T.: 0.000 min
Response: 5820918280
Conc: 957.27 ng/ml



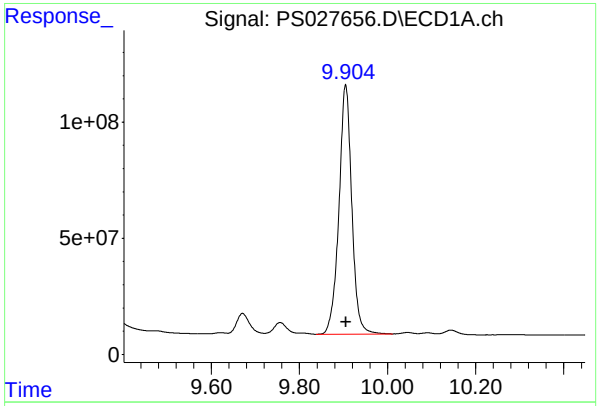
#12 2,4,5-T

R.T.: 9.341 min
Delta R.T.: 0.000 min
Response: 13851289433
Conc: 971.90 ng/ml



#12 2,4,5-T

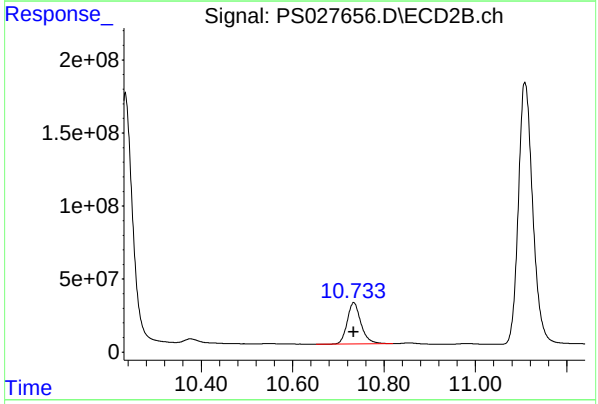
R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 5104127108
Conc: 964.71 ng/ml



#13 2,4-DB

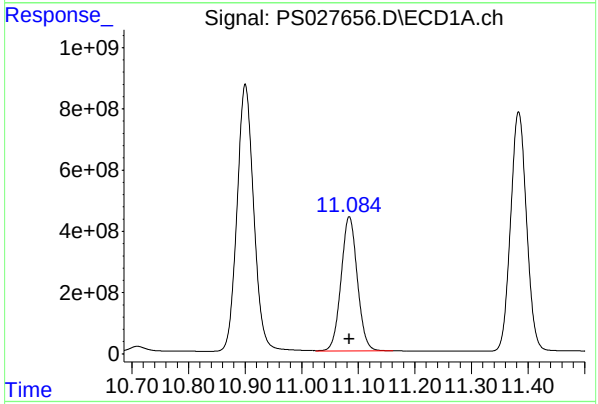
R.T.: 9.905 min
Delta R.T.: 0.000 min
Response: 2172350064
Conc: 967.87 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



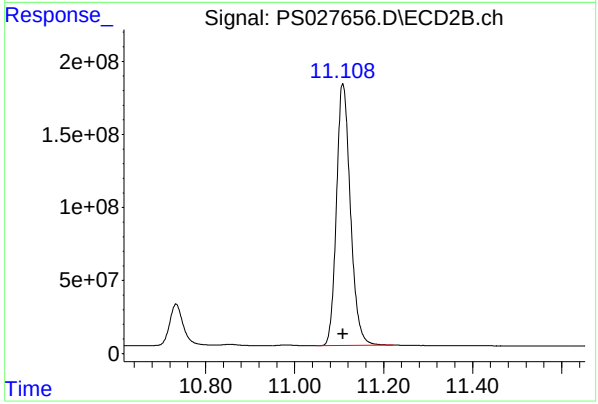
#13 2,4-DB

R.T.: 10.734 min
Delta R.T.: 0.000 min
Response: 593021094
Conc: 953.83 ng/ml



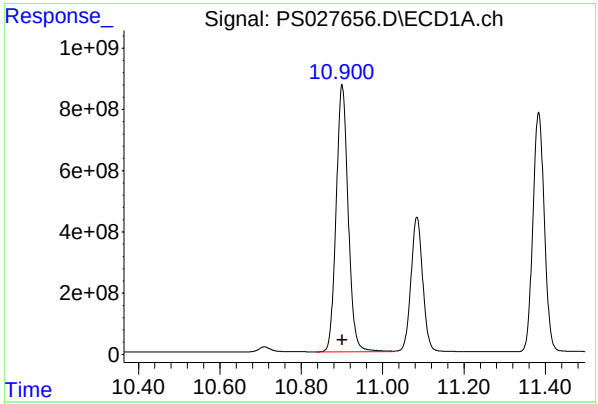
#14 DINOSEB

R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 8746924426
Conc: 950.60 ng/ml



#14 DINOSEB

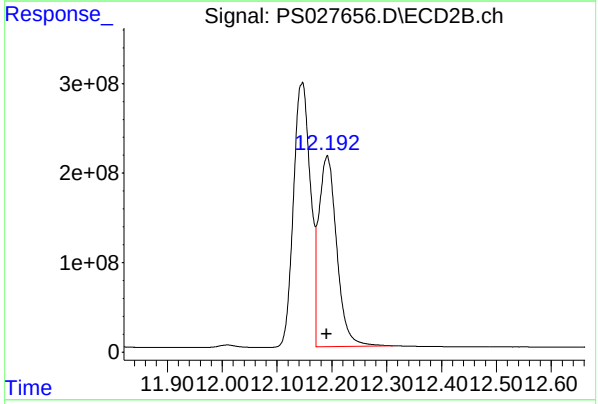
R.T.: 11.108 min
Delta R.T.: 0.000 min
Response: 3900029341
Conc: 940.83 ng/ml



#15 Picloram

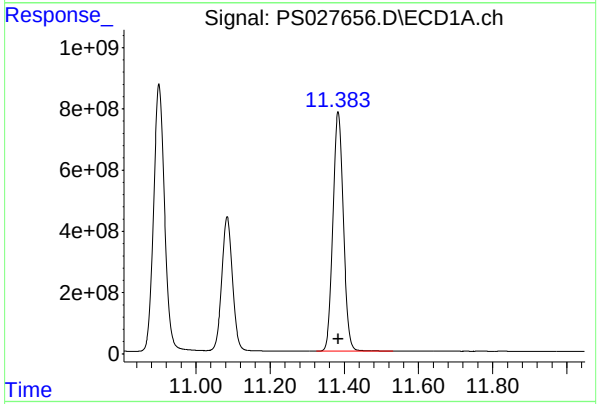
R.T.: 10.900 min
Delta R.T.: 0.000 min
Response: 17868100745
Conc: 975.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



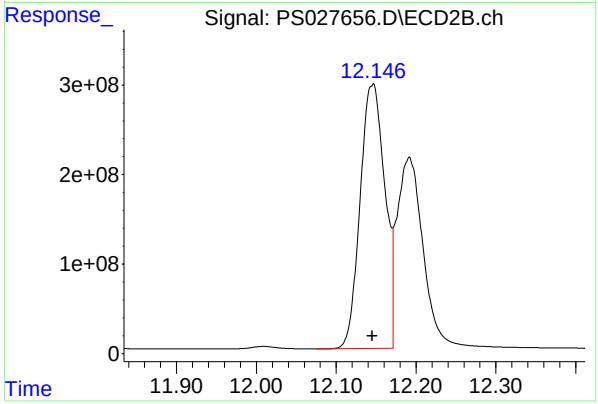
#15 Picloram

R.T.: 12.191 min
Delta R.T.: 0.000 min
Response: 4821158545
Conc: 943.59 ng/ml



#16 DCPA

R.T.: 11.383 min
Delta R.T.: 0.000 min
Response: 15328129499
Conc: 979.78 ng/ml



#16 DCPA

R.T.: 12.145 min
Delta R.T.: 0.000 min
Response: 6338586882
Conc: 979.38 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027657.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 22:59
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:25:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.111	7.633	3323.1E6	1411.3E6	1437.290	1468.551
		Target Compounds						
1)	T	Dalapon	2.555	2.622	5037.8E6	2299.7E6	1318.678	1396.125
2)	T	3,5-DICHL...	6.301	6.604	4558.9E6	2126.4E6	1338.954	1365.206
3)	T	4-Nitroph...	6.906	7.167	2100.6E6	875.3E6	1326.803	1312.725
5)	T	DICAMBA	7.291	7.829	13074.5E6	6293.3E6	1357.498	1405.049
6)	T	MCPP	7.475	7.934	1006.2E6	499.2E6	142.356	144.414
7)	T	MCPA	7.622	8.177	1366.4E6	657.9E6	137.931	134.504
8)	T	DICHLORPROP	7.977	8.536	3360.4E6	1515.0E6	1358.414	1389.615
9)	T	2,4-D	8.201	8.861	3922.7E6	1540.8E6	1361.649	1403.265
10)	T	Pentachlo...	8.488	9.379	43305.6E6	22296.3E6	1309.248	1373.777
11)	T	2,4,5-TP ...	9.055	9.755	18661.8E6	8544.4E6	1356.375	1410.542
12)	T	2,4,5-T	9.341	10.171	19156.0E6	7453.4E6	1359.783	1419.731
13)	T	2,4-DB	9.905	10.734	3108.2E6	896.4E6	1397.986	1444.710
14)	T	DINOSEB	11.084	11.110	12304.9E6	5734.9E6	1344.861	1384.079
15)	T	Picloram	10.900	12.192	25096.0E6	7676.1E6	1387.971	1497.295
16)	T	DCPA	11.384	12.146	21214.1E6	9111.2E6	1370.134	1422.134

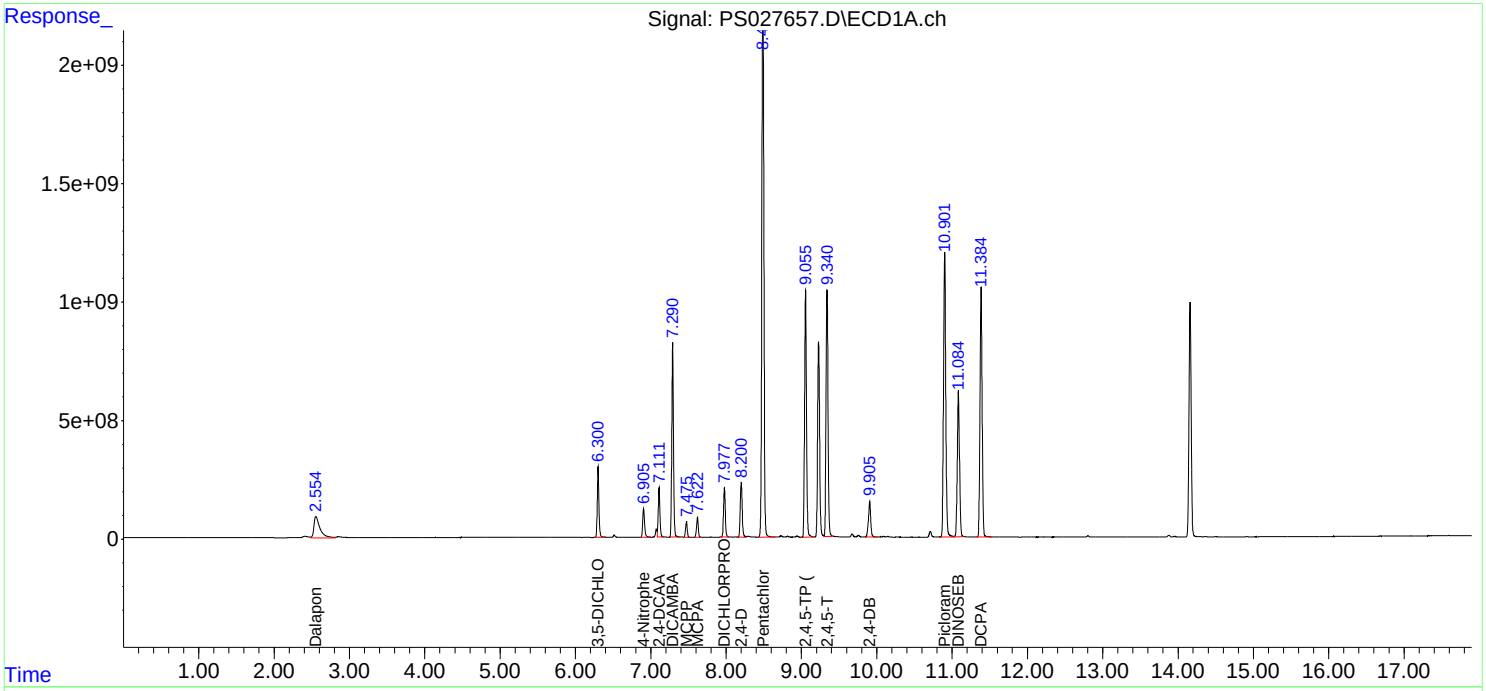
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

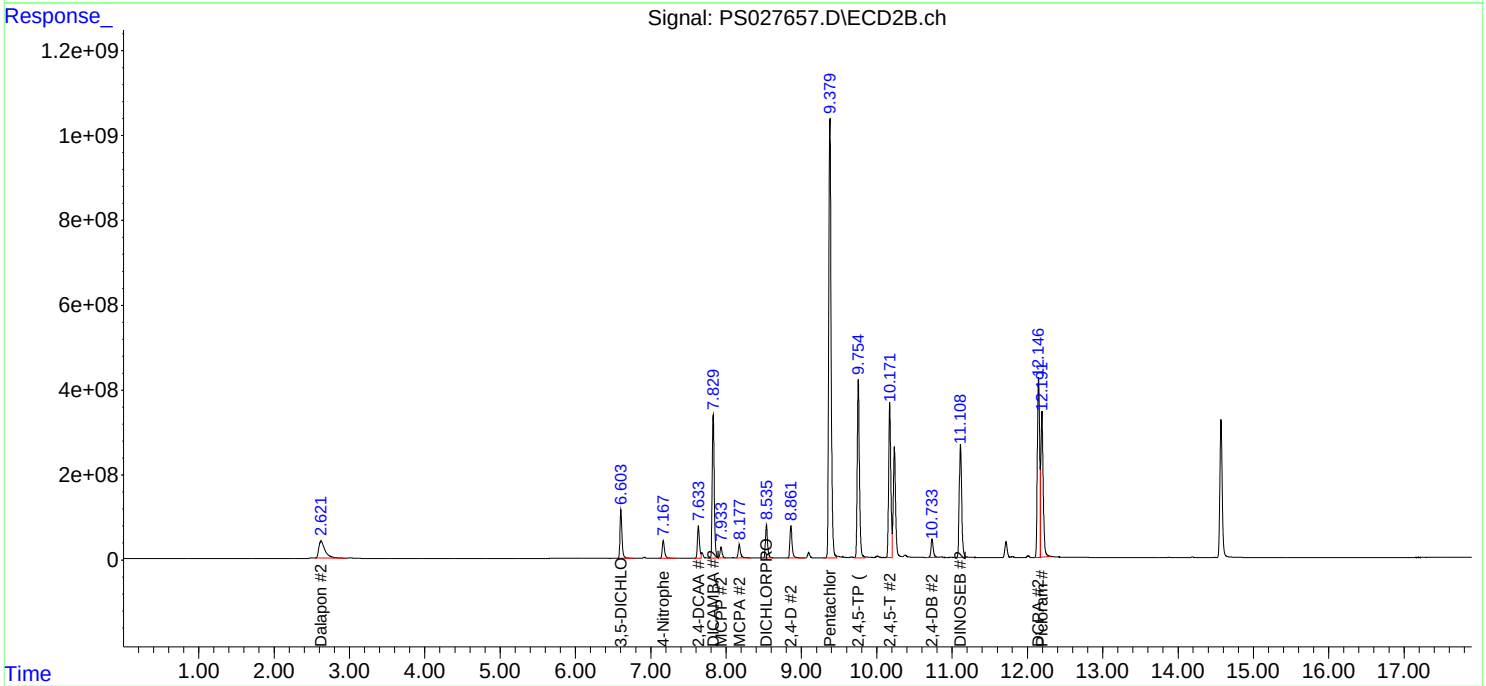
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027657.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 22:59
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

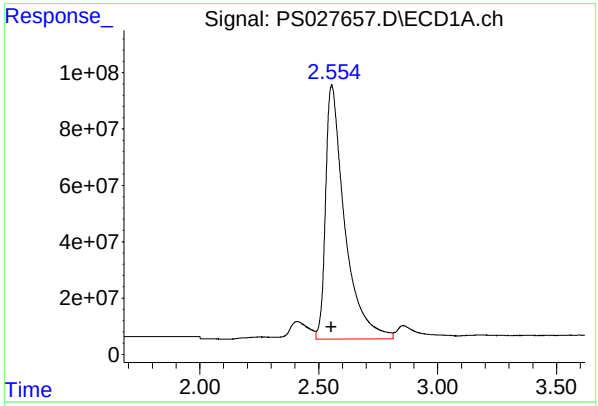
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:25:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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



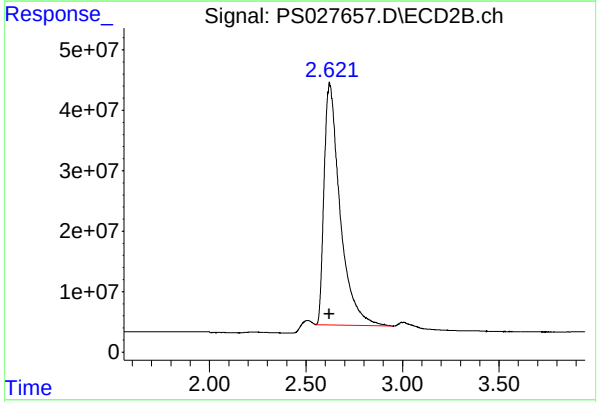




#1 Dalapon

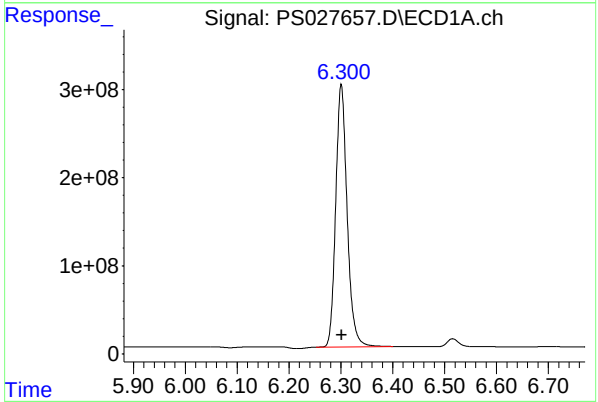
R.T.: 2.555 min
Delta R.T.: 0.000 mi
Response: 5037819447
Conc: 1318.68 ng/

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



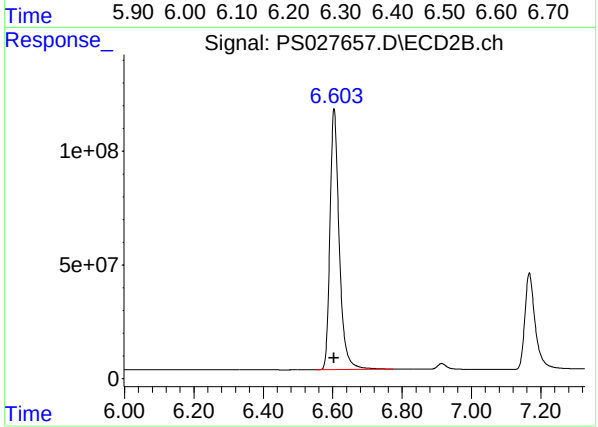
#1 Dalapon

R.T.: 2.622 min
Delta R.T.: 0.002 min
Response: 2299749002
Conc: 1396.12 ng/ml



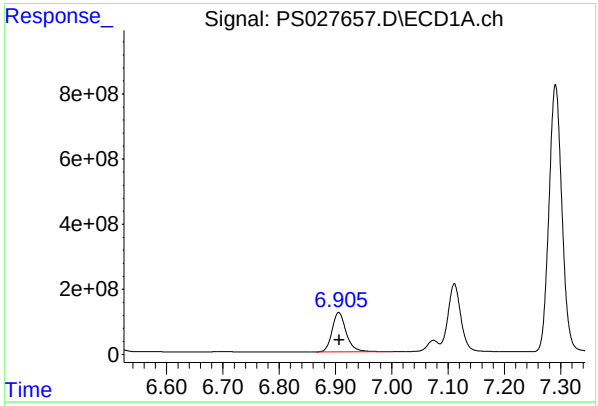
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 4558886781
Conc: 1338.95 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

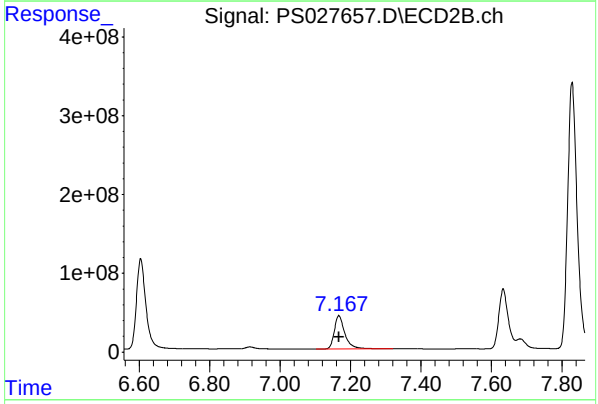
R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 2126362123
Conc: 1365.21 ng/ml



#3 4-Nitrophenol

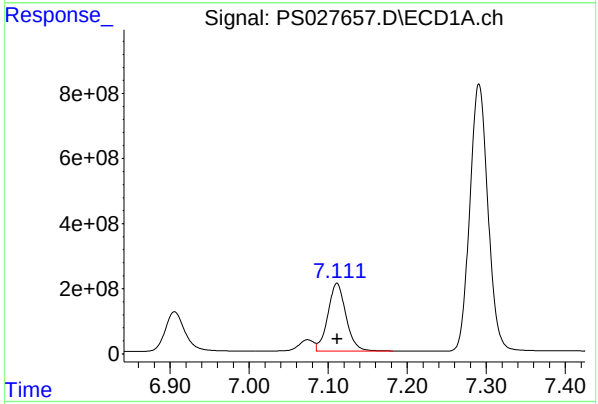
R.T.: 6.906 min
Delta R.T.: -0.001 min
Response: 2100642961
Conc: 1326.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



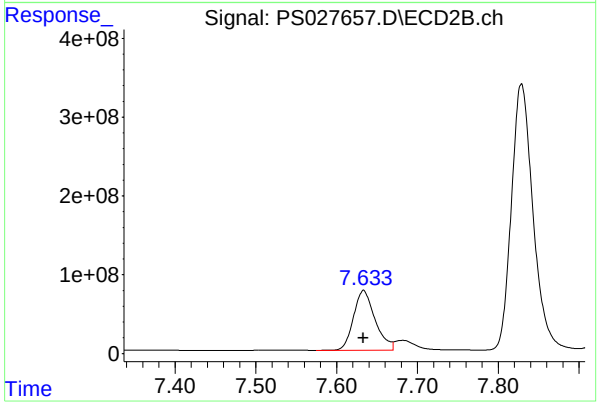
#3 4-Nitrophenol

R.T.: 7.167 min
Delta R.T.: -0.001 min
Response: 875304004
Conc: 1312.72 ng/ml



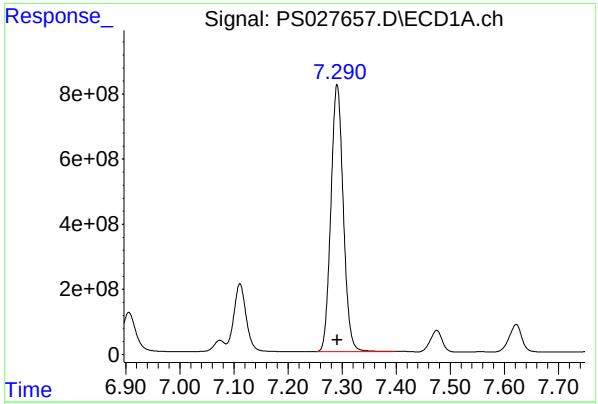
#4 2,4-DCAA

R.T.: 7.111 min
Delta R.T.: 0.000 min
Response: 3323104002
Conc: 1437.29 ng/ml



#4 2,4-DCAA

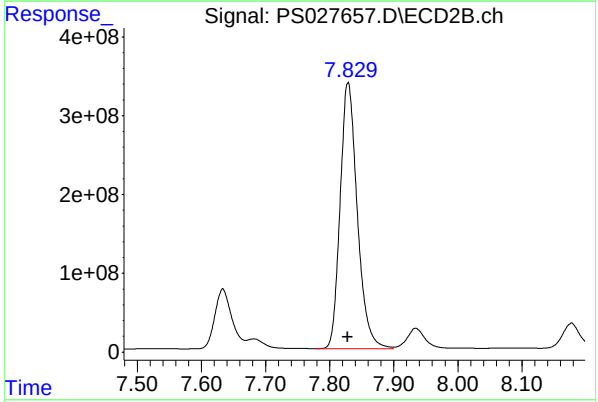
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 1411291470
Conc: 1468.55 ng/ml



#5 DICAMBA

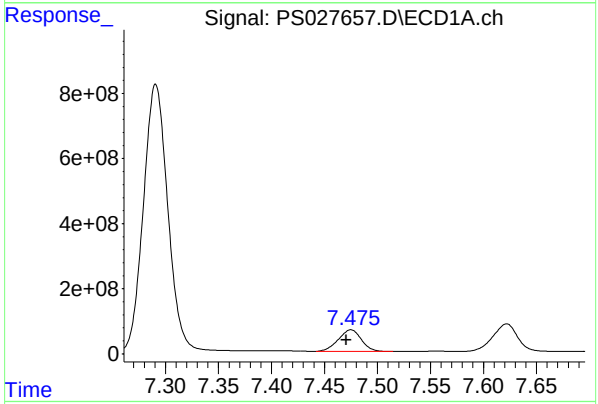
R.T.: 7.291 min
Delta R.T.: 0.000 min
Response: 13074534958
Conc: 1357.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



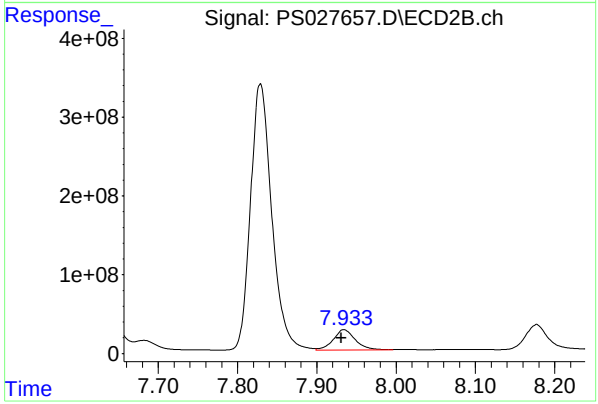
#5 DICAMBA

R.T.: 7.829 min
Delta R.T.: 0.000 min
Response: 6293273368
Conc: 1405.05 ng/ml



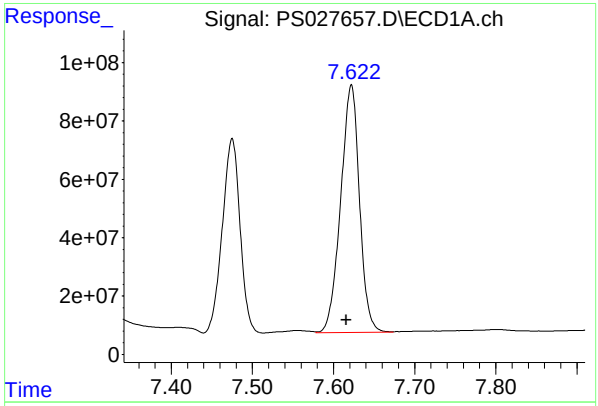
#6 MCPP

R.T.: 7.475 min
Delta R.T.: 0.004 min
Response: 1006196580
Conc: 142.36 ug/ml



#6 MCPP

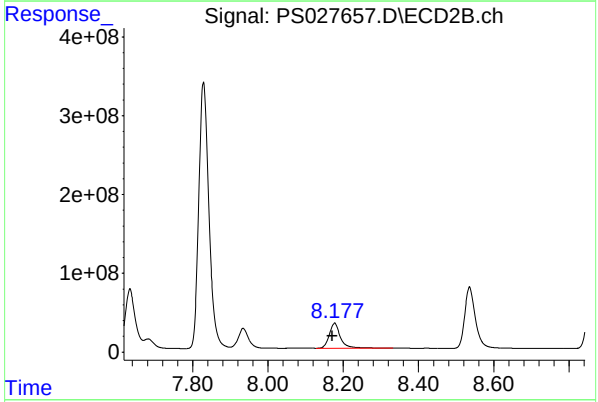
R.T.: 7.934 min
Delta R.T.: 0.004 min
Response: 499238330
Conc: 144.41 ug/ml



#7 MCPA

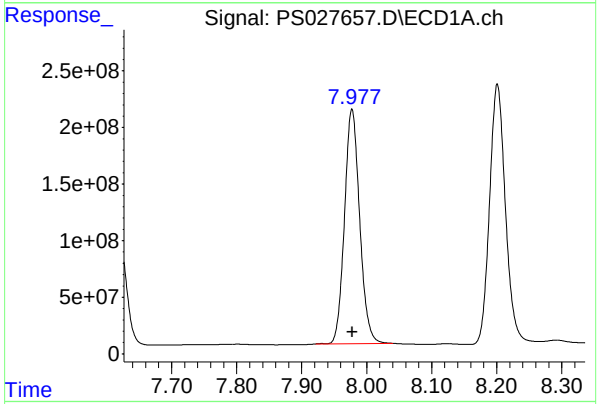
R.T.: 7.622 min
Delta R.T.: 0.006 min
Response: 1366385389
Conc: 137.93 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



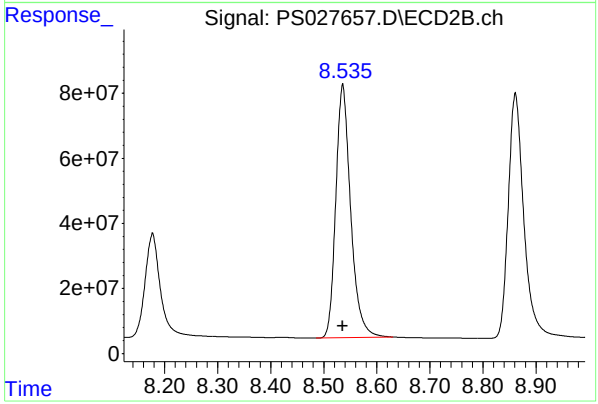
#7 MCPA

R.T.: 8.177 min
Delta R.T.: 0.006 min
Response: 657866817
Conc: 134.50 ug/ml



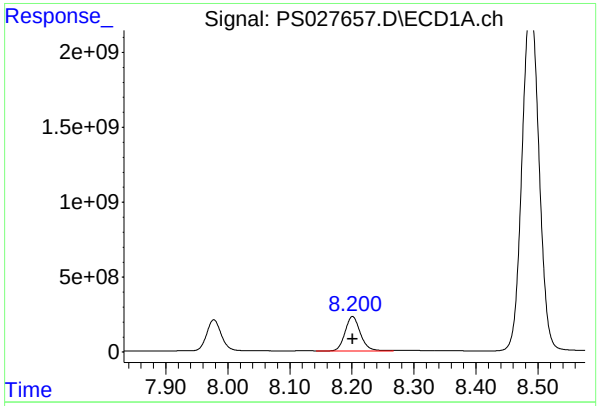
#8 DICHLORPROP

R.T.: 7.977 min
Delta R.T.: 0.000 min
Response: 3360360903
Conc: 1358.41 ng/ml



#8 DICHLORPROP

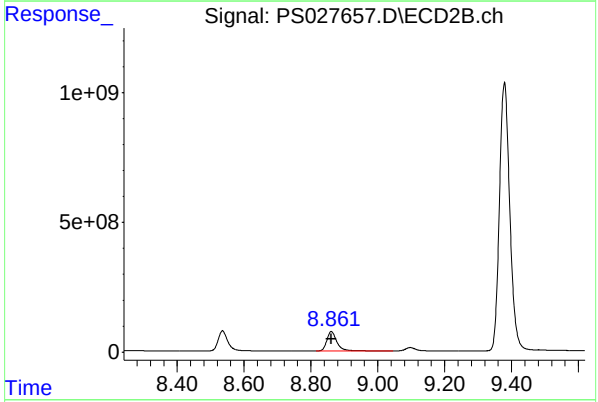
R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 1515020169
Conc: 1389.62 ng/ml



#9 2,4-D

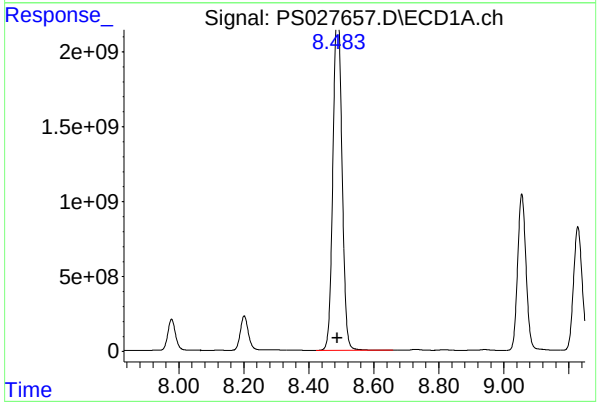
R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 3922664142
Conc: 1361.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



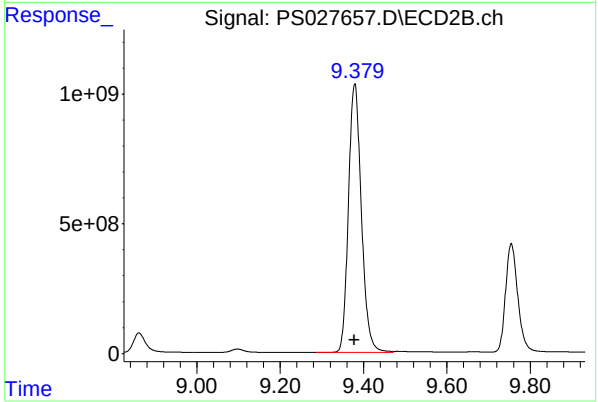
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 1540794084
Conc: 1403.27 ng/ml



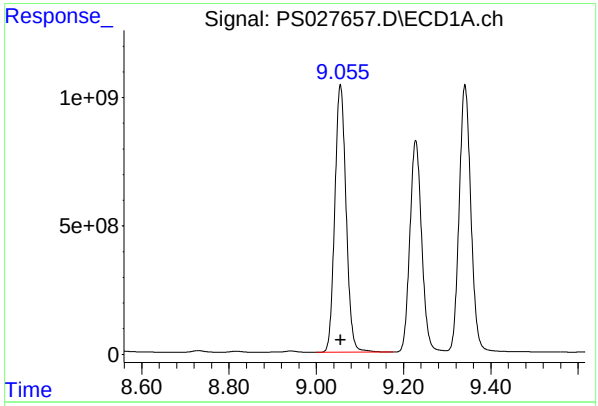
#10 Pentachlorophenol

R.T.: 8.488 min
Delta R.T.: 0.000 min
Response: 43305554747
Conc: 1309.25 ng/ml



#10 Pentachlorophenol

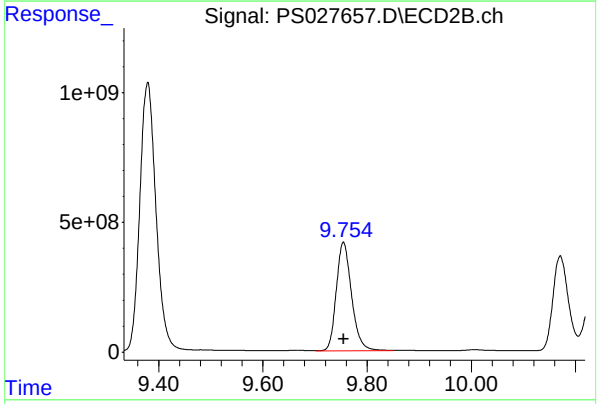
R.T.: 9.379 min
Delta R.T.: 0.000 min
Response: 22296296340
Conc: 1373.78 ng/ml



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

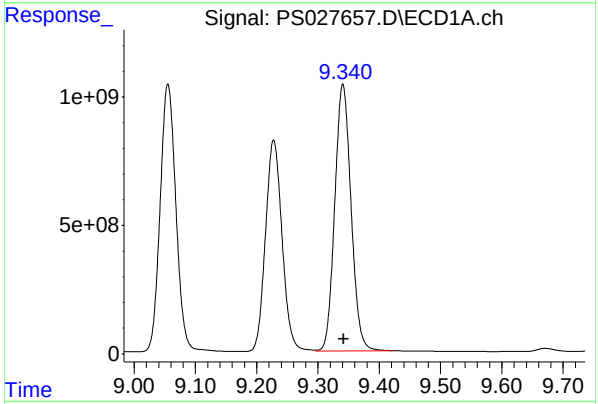
R.T.: 9.055 min
Delta R.T.: 0.000 min
Response: 18661835382
Conc: 1356.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



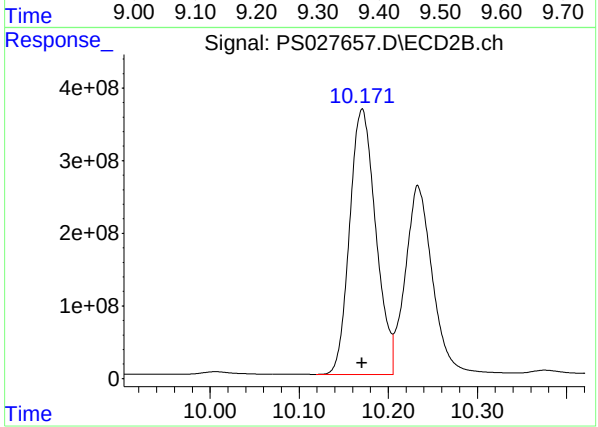
#11 2,4,5-TP (SILVEX)

R.T.: 9.755 min
Delta R.T.: 0.000 min
Response: 8544374795
Conc: 1410.54 ng/ml



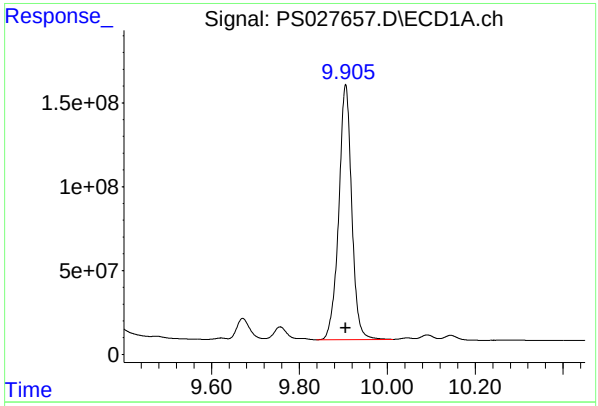
#12 2,4,5-T

R.T.: 9.341 min
Delta R.T.: -0.001 min
Response: 19155978809
Conc: 1359.78 ng/ml



#12 2,4,5-T

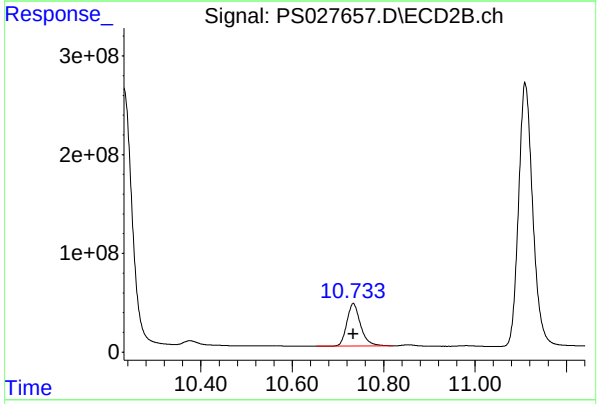
R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 7453432244
Conc: 1419.73 ng/ml



#13 2,4-DB

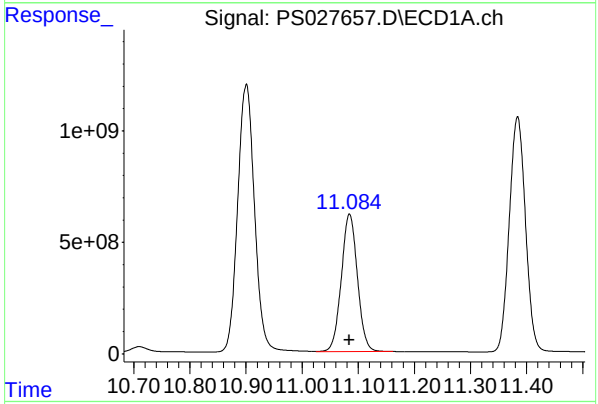
R.T.: 9.905 min
Delta R.T.: 0.000 mi
Response: 3108203696
Conc: 1397.99 ng/m

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



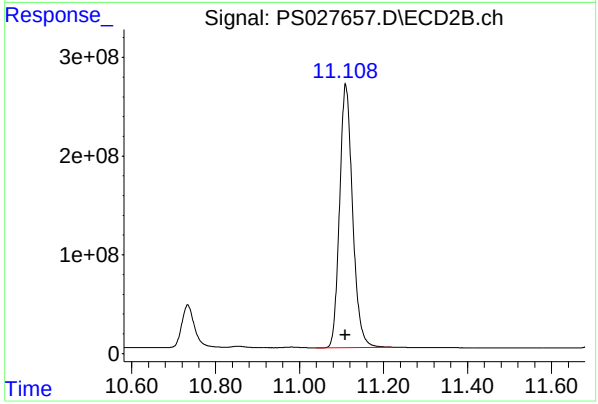
#13 2,4-DB

R.T.: 10.734 min
Delta R.T.: 0.000 min
Response: 896402017
Conc: 1444.71 ng/ml



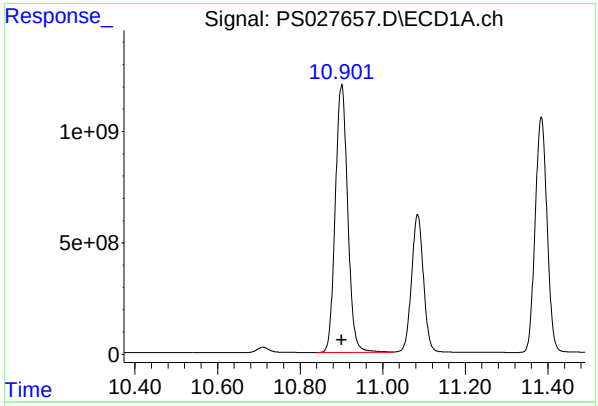
#14 DINOSEB

R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 12304859608
Conc: 1344.86 ng/ml



#14 DINOSEB

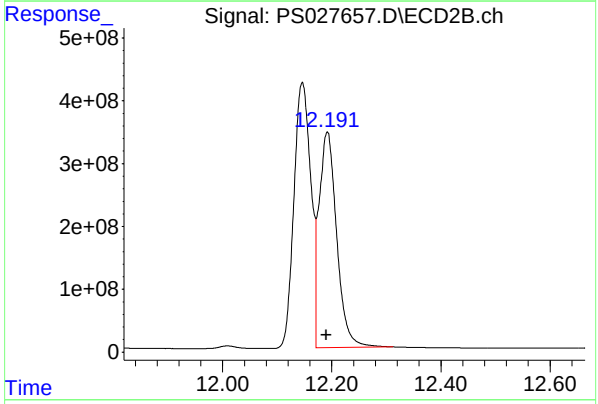
R.T.: 11.110 min
Delta R.T.: 0.001 min
Response: 5734940867
Conc: 1384.08 ng/ml



#15 Picloram

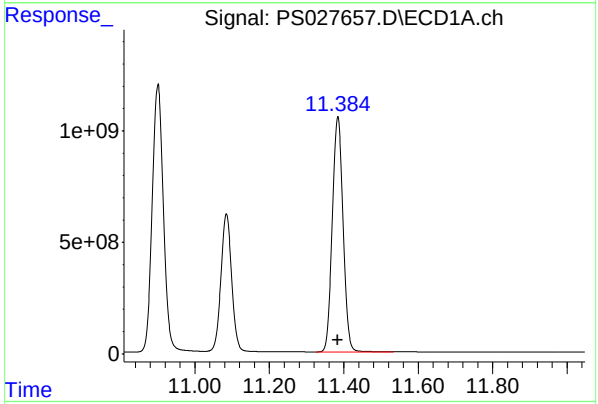
R.T.: 10.900 min
Delta R.T.: 0.000 min
Response: 25096008470
Conc: 1387.97 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



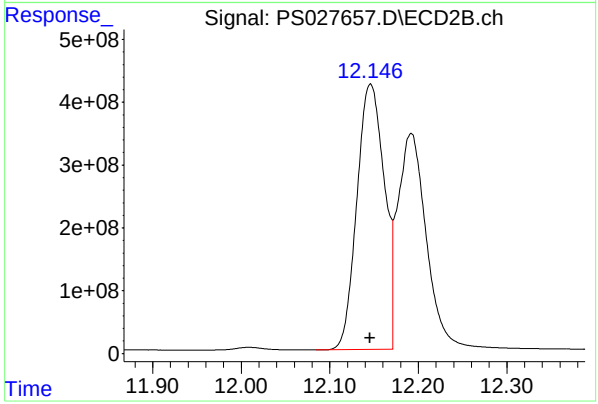
#15 Picloram

R.T.: 12.192 min
Delta R.T.: 0.002 min
Response: 7676076176
Conc: 1497.29 ng/ml



#16 DCPA

R.T.: 11.384 min
Delta R.T.: 0.000 min
Response: 21214104606
Conc: 1370.13 ng/ml



#16 DCPA

R.T.: 12.146 min
Delta R.T.: 0.000 min
Response: 9111236759
Conc: 1422.13 ng/ml

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027658.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 23:23
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS091224

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:19:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.111	7.633	1786.5E6	739.2E6	741.660	753.428m
	Target Compounds						
1) T	Dalapon	2.555	2.622	2706.0E6	1106.7E6	685.070	687.551
2) T	3,5-DICHL...	6.301	6.605	2442.1E6	1091.6E6	689.553	686.167
3) T	4-Nitroph...	6.906	7.168	1114.6E6	477.4E6	684.808	689.626
5) T	DICAMBA	7.290	7.829	7051.8E6	3072.3E6	705.885	683.528
6) T	MCPP	7.470	7.931	489.4E6	231.9E6	69.908	68.744
7) T	MCPA	7.615	8.172	693.5E6	355.5E6	69.227	70.163
8) T	DICHLORPROP	7.977	8.535	1795.4E6	775.9E6	700.162	701.496
9) T	2,4-D	8.200	8.861	2076.2E6	776.6E6	696.789	703.881
10) T	Pentachlo...	8.487	9.378	25306.5E6	11897.7E6	707.608	707.632
11) T	2,4,5-TP ...	9.055	9.754	10273.8E6	4244.4E6	712.410	693.646
12) T	2,4,5-T	9.341	10.171	10498.7E6	3651.8E6	712.633	693.023
13) T	2,4-DB	9.905	10.734	1622.5E6	425.0E6	716.193	694.539
14) T	DINOSEB	11.084	11.110	6726.8E6	2934.1E6	702.745	695.331
15) T	Picloram	10.900	12.192	13405.9E6	3427.2E6	722.655	704.227
16) T	DCPA	11.383	12.146	11739.8E6	4735.8E6	723.141	730.136

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

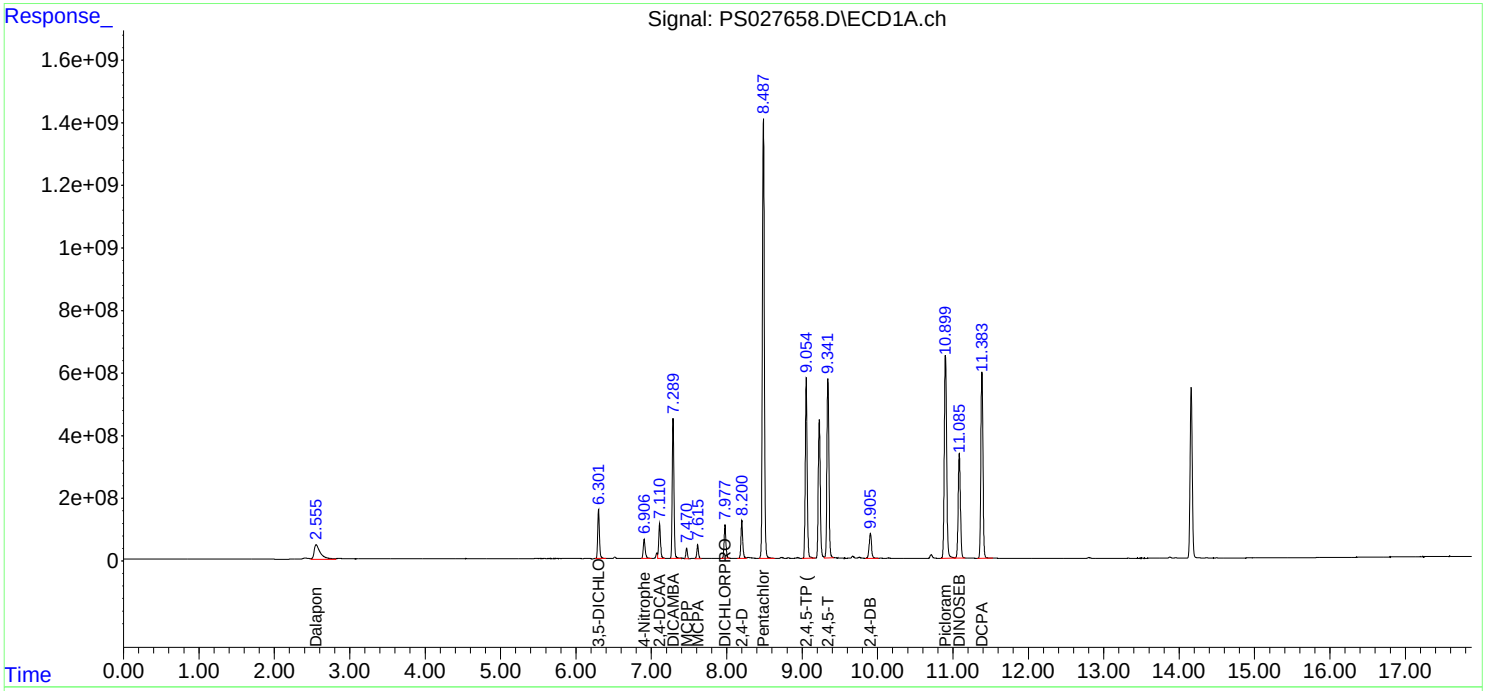
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027658.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 23:23
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

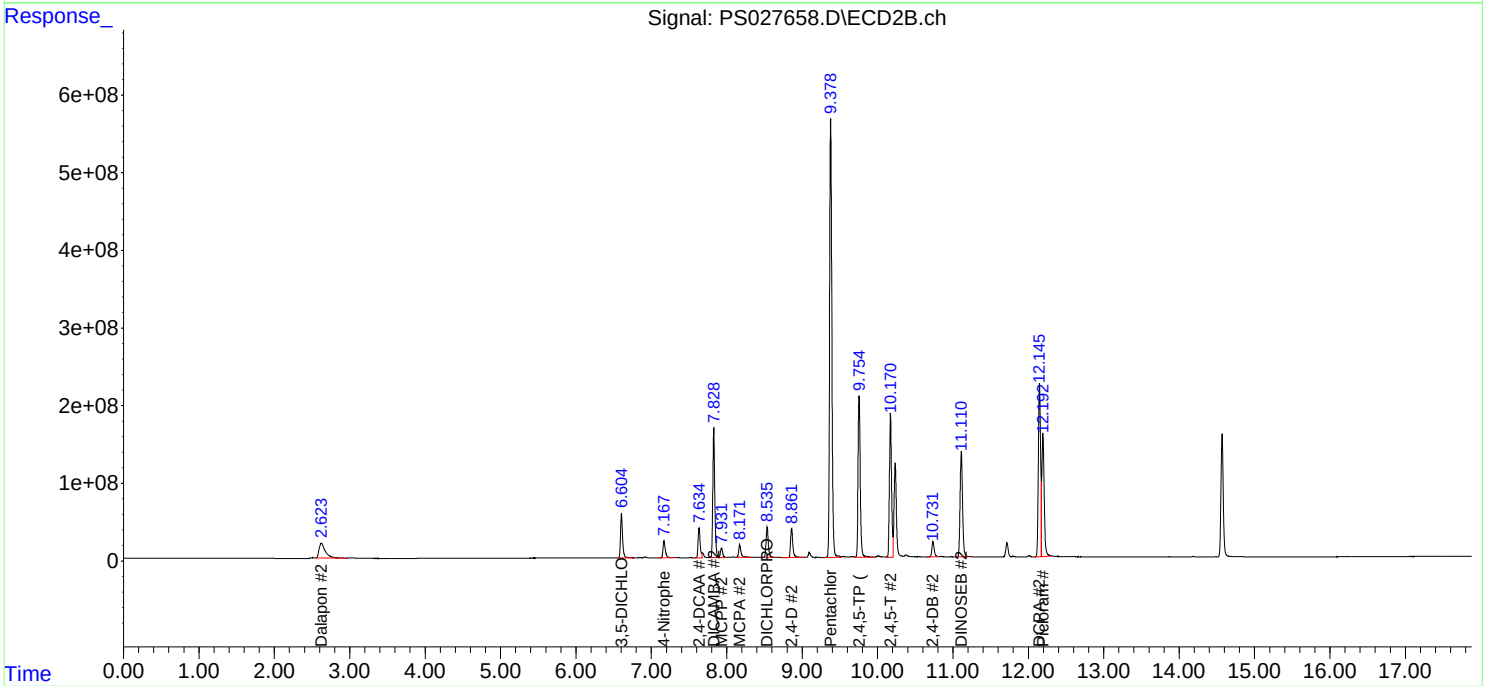
Instrument :
ECD_S
ClientSampleId :
ICVPS091224

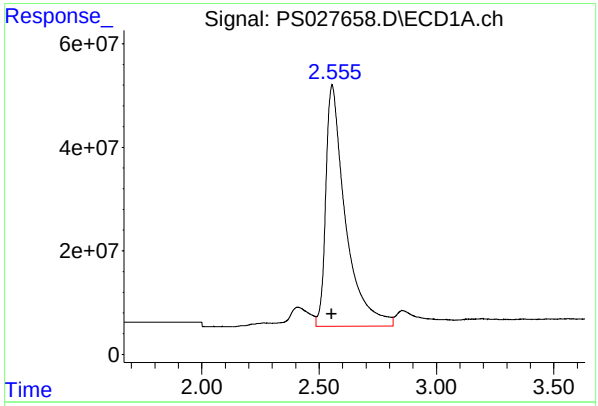
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:19:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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







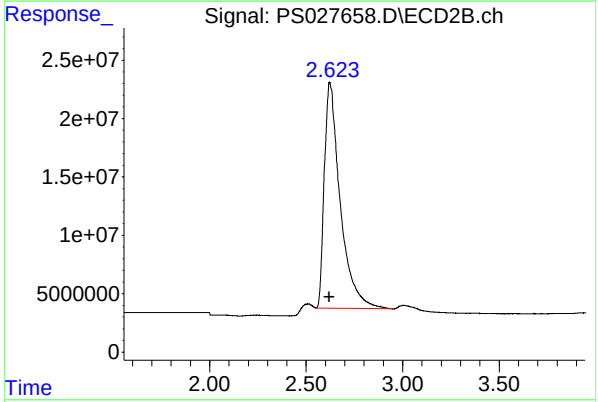
#1 Dalapon

R.T.: 2.555 min
Delta R.T.: 0.001 min
Response: 2706027350
Conc: 685.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS091224

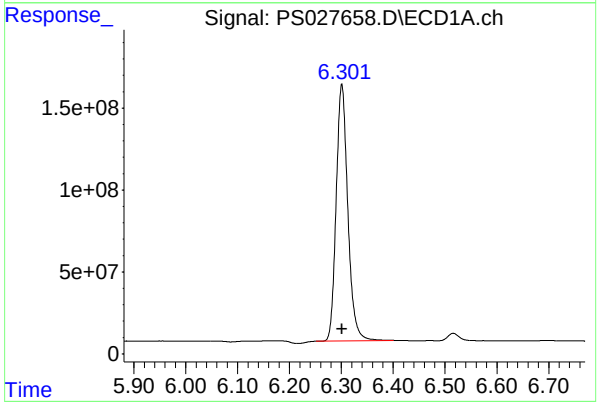
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



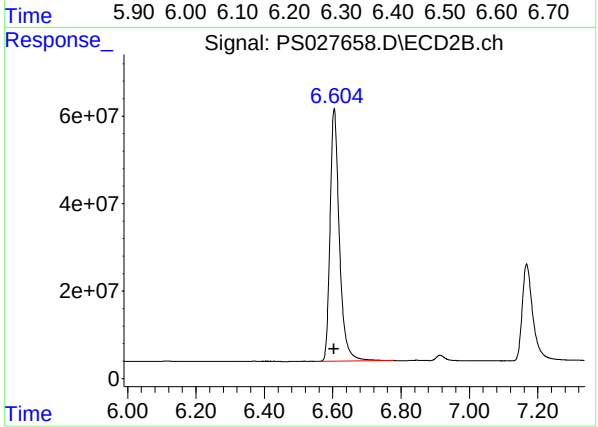
#1 Dalapon

R.T.: 2.622 min
Delta R.T.: 0.002 min
Response: 1106735530
Conc: 687.55 ng/ml



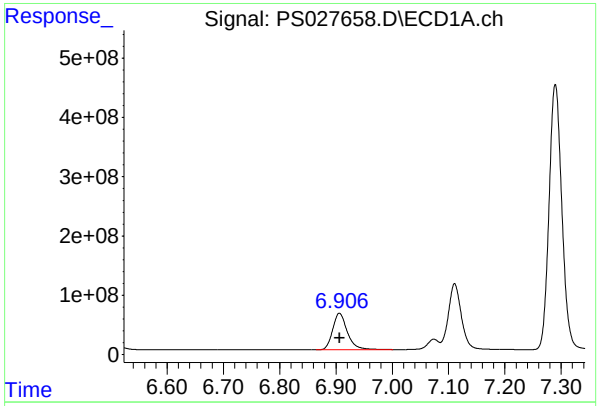
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 2442123960
Conc: 689.55 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 1091558486
Conc: 686.17 ng/ml



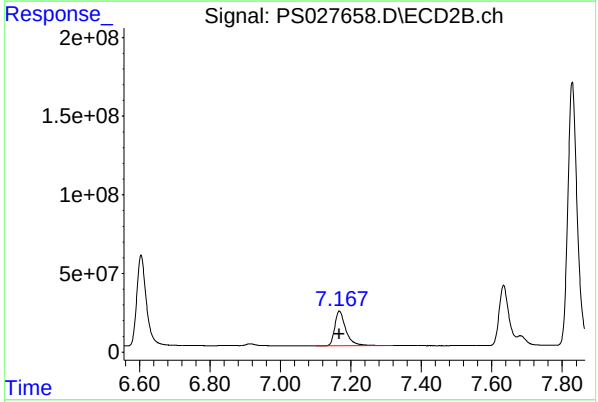
#3 4-Nitrophenol

R.T.: 6.906 min
Delta R.T.: 0.000 min
Response: 1114552999
Conc: 684.81 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS091224

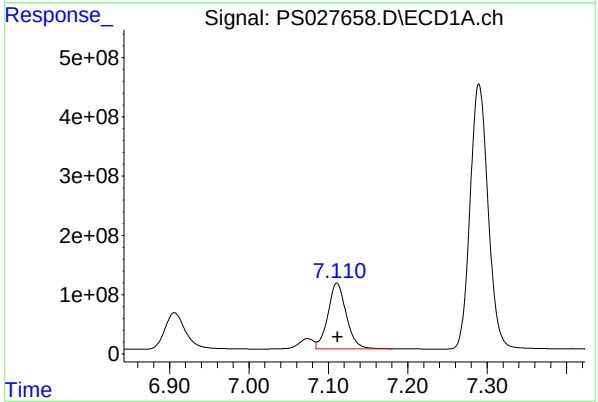
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



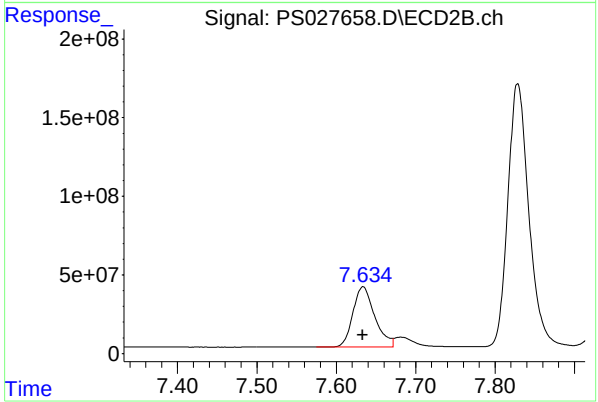
#3 4-Nitrophenol

R.T.: 7.168 min
Delta R.T.: 0.000 min
Response: 477441613
Conc: 689.63 ng/ml



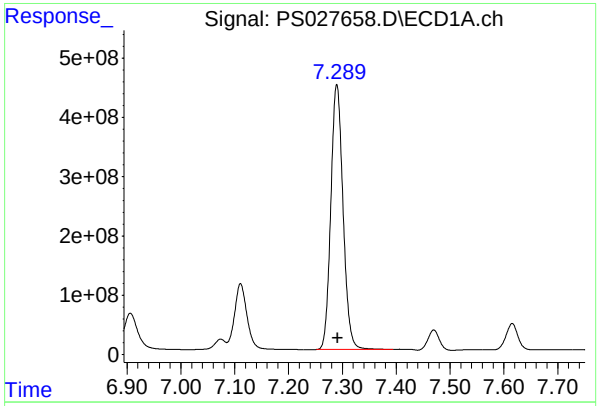
#4 2,4-DCAA

R.T.: 7.111 min
Delta R.T.: 0.000 min
Response: 1786454363
Conc: 741.66 ng/ml



#4 2,4-DCAA

R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 739231476
Conc: 753.43 ng/ml m



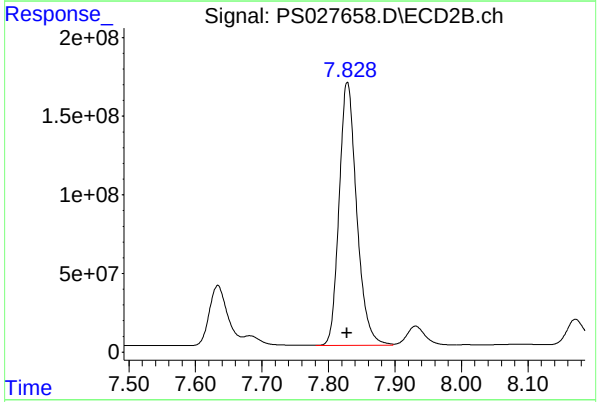
#5 DICAMBA

R.T.: 7.290 min
Delta R.T.: -0.001 mi
Response: 7051774972
Conc: 705.89 ng/m

Instrument :
ECD_S
ClientSampleId :
ICVPS091224

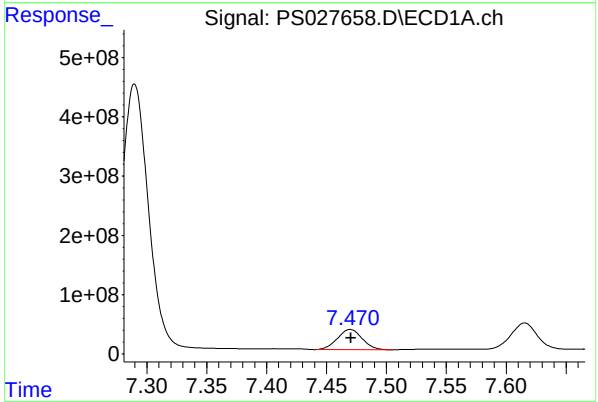
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



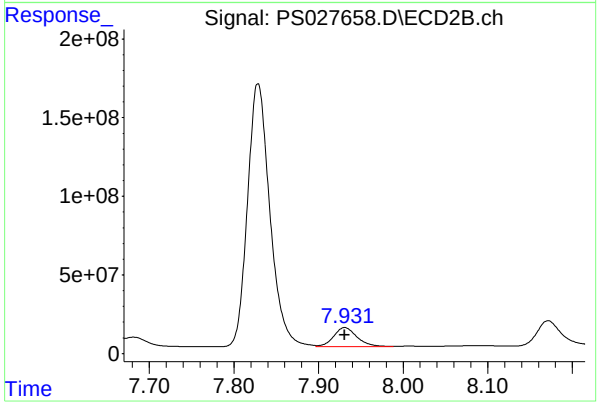
#5 DICAMBA

R.T.: 7.829 min
Delta R.T.: 0.000 min
Response: 3072299590
Conc: 683.53 ng/ml



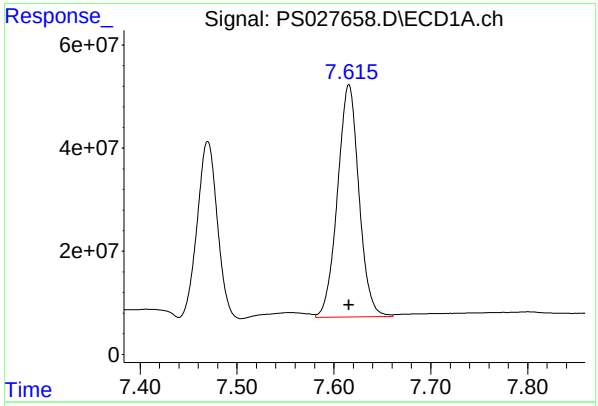
#6 MCPP

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 489374690
Conc: 69.91 ug/ml



#6 MCPP

R.T.: 7.931 min
Delta R.T.: 0.000 min
Response: 231892893
Conc: 68.74 ug/ml



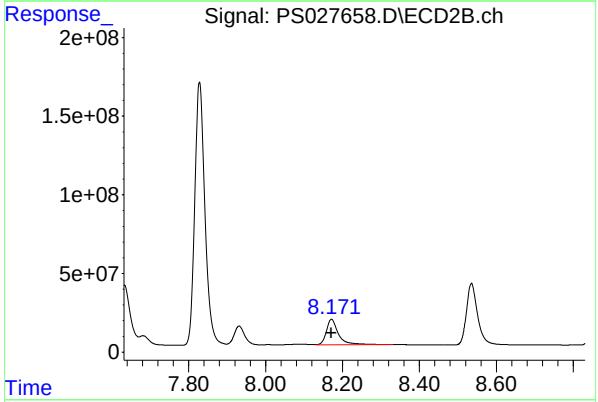
#7 MCPA

R.T.: 7.615 min
Delta R.T.: 0.000 min
Response: 693492118
Conc: 69.23 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS091224

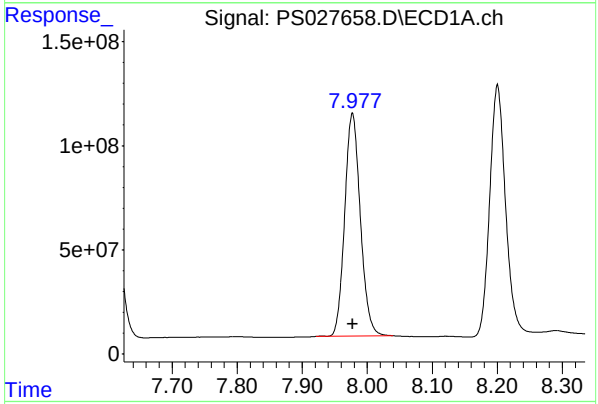
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



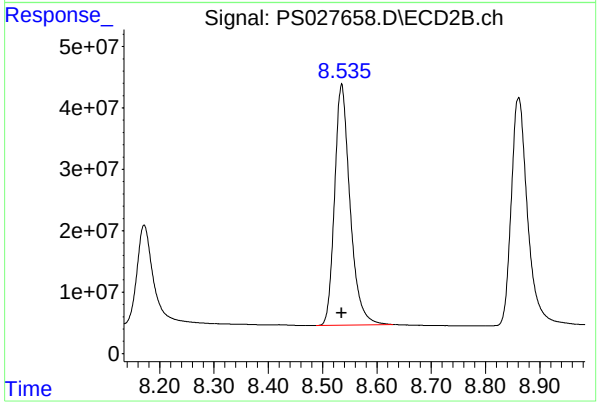
#7 MCPA

R.T.: 8.172 min
Delta R.T.: 0.000 min
Response: 355464534
Conc: 70.16 ug/ml



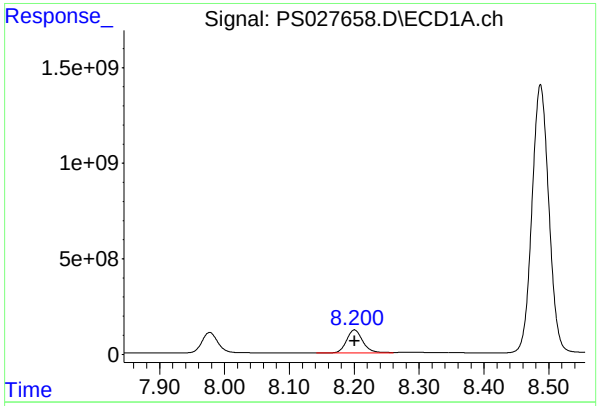
#8 DICHLORPROP

R.T.: 7.977 min
Delta R.T.: 0.000 min
Response: 1795385289
Conc: 700.16 ng/ml



#8 DICHLORPROP

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 775858966
Conc: 701.50 ng/ml



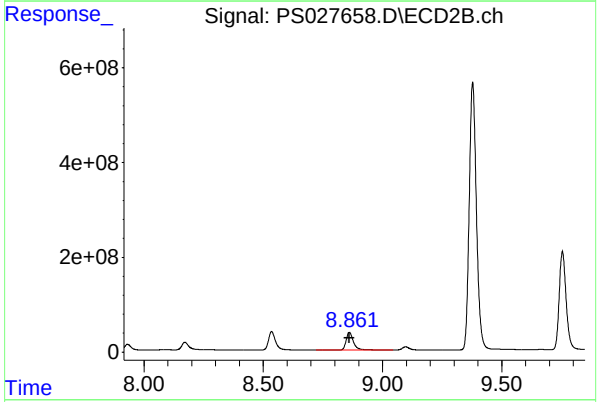
#9 2,4-D

R.T.: 8.200 min
Delta R.T.: 0.000 min
Response: 2076154475
Conc: 696.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS091224

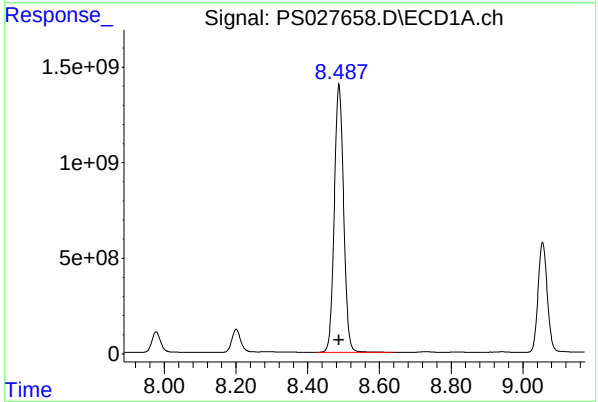
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



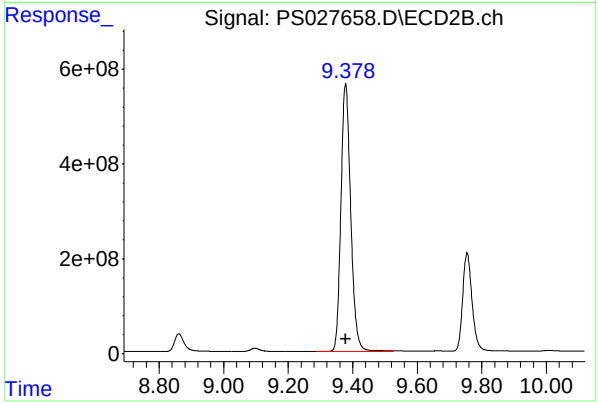
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 776557638
Conc: 703.88 ng/ml



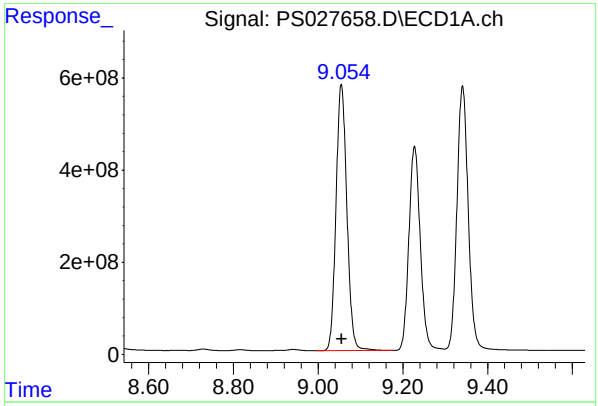
#10 Pentachlorophenol

R.T.: 8.487 min
Delta R.T.: 0.000 min
Response: 25306512699
Conc: 707.61 ng/ml



#10 Pentachlorophenol

R.T.: 9.378 min
Delta R.T.: 0.000 min
Response: 11897650969
Conc: 707.63 ng/ml



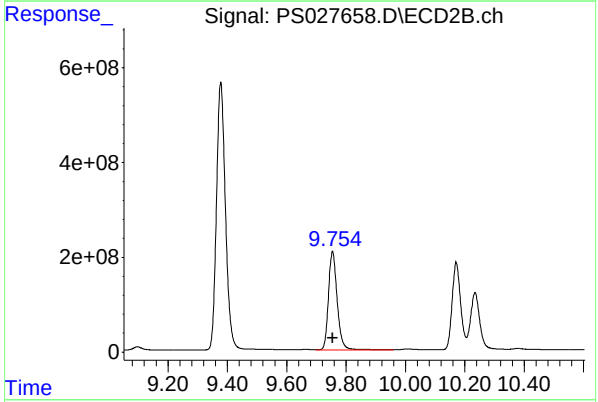
#11 2,4,5-TP (SILVEX)

R.T.: 9.055 min
Delta R.T.: 0.000 min
Response: 10273813695
Conc: 712.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS091224

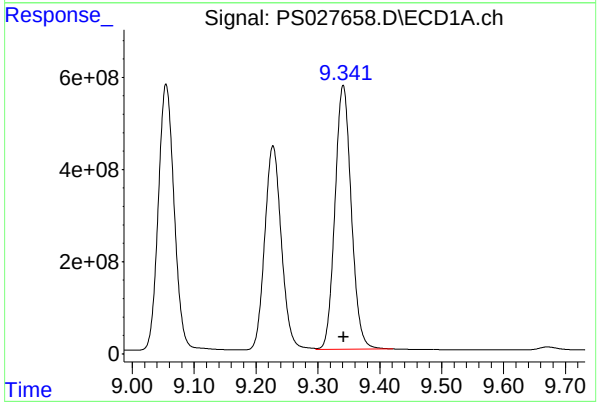
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



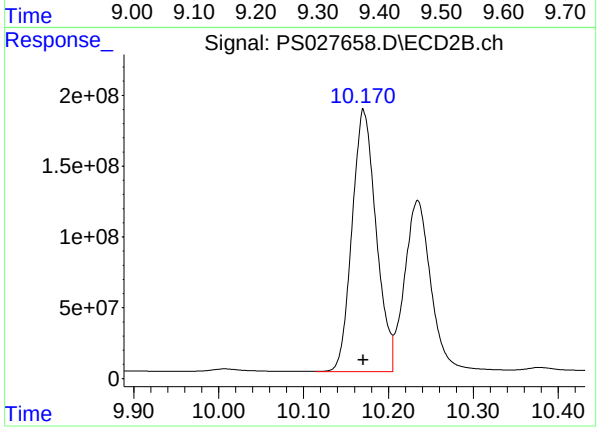
#11 2,4,5-TP (SILVEX)

R.T.: 9.754 min
Delta R.T.: 0.000 min
Response: 4244402342
Conc: 693.65 ng/ml



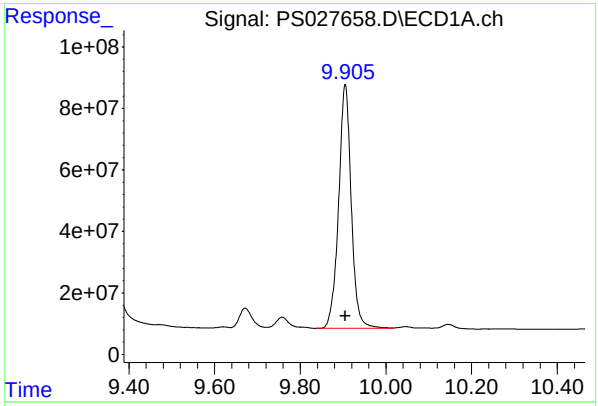
#12 2,4,5-T

R.T.: 9.341 min
Delta R.T.: 0.000 min
Response: 10498683656
Conc: 712.63 ng/ml



#12 2,4,5-T

R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 3651750986
Conc: 693.02 ng/ml



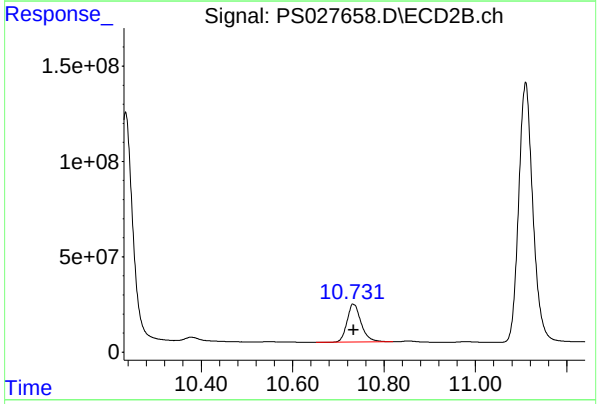
#13 2,4-DB

R.T.: 9.905 min
Delta R.T.: 0.000 min
Response: 1622527753
Conc: 716.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS091224

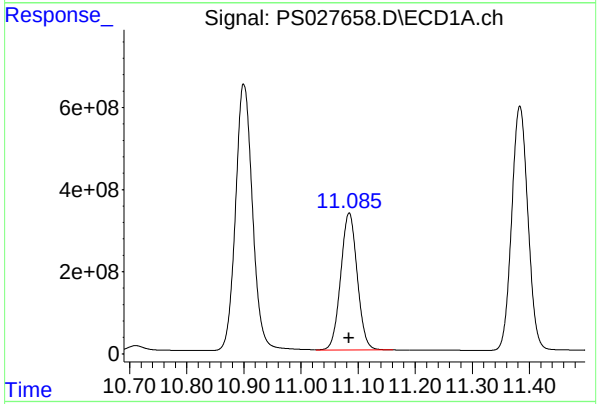
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



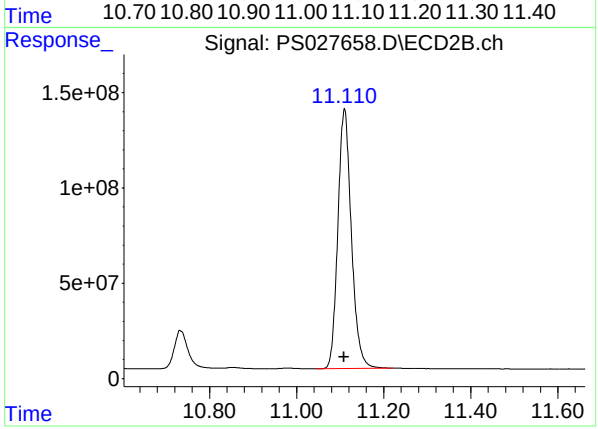
#13 2,4-DB

R.T.: 10.734 min
Delta R.T.: 0.000 min
Response: 424981612
Conc: 694.54 ng/ml



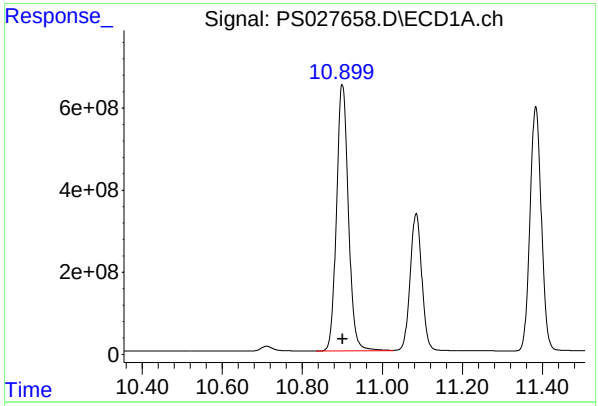
#14 DINOSEB

R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 6726835417
Conc: 702.75 ng/ml



#14 DINOSEB

R.T.: 11.110 min
Delta R.T.: 0.001 min
Response: 2934074244
Conc: 695.33 ng/ml



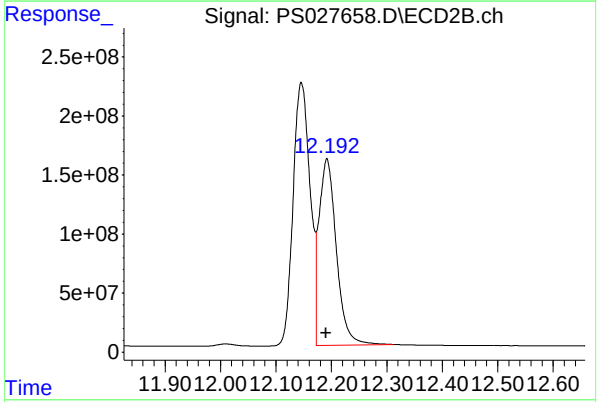
#15 Picloram

R.T.: 10.900 min
Delta R.T.: 0.000 min
Response: 13405915222
Conc: 722.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS091224

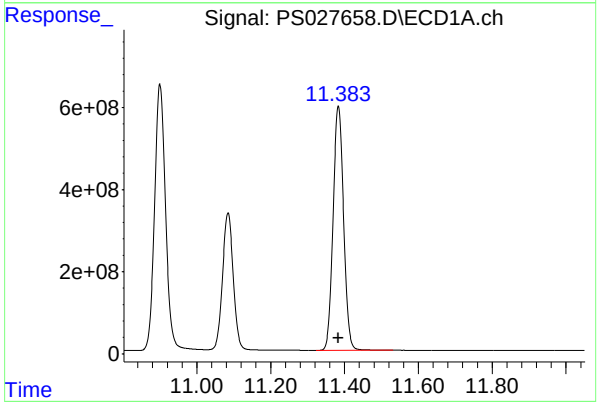
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/15/2024
Supervised By :Ankita Jodhani 09/16/2024



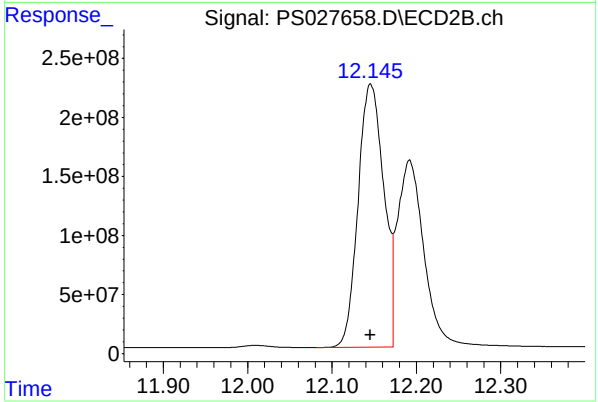
#15 Picloram

R.T.: 12.192 min
Delta R.T.: 0.001 min
Response: 3427151165
Conc: 704.23 ng/ml



#16 DCPA

R.T.: 11.383 min
Delta R.T.: 0.000 min
Response: 11739809286
Conc: 723.14 ng/ml



#16 DCPA

R.T.: 12.146 min
Delta R.T.: 0.000 min
Response: 4735824996
Conc: 730.14 ng/ml

Alliance TECHNICAL GROUP
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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Continuing Calib Date: 09/10/2024 **Initial Calibration Date(s):** 09/03/2024 09/03/2024

Continuing Calib Time: 14:18 **Initial Calibration Time(s):** 13:26 15:03

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.33	7.33	7.23	7.43	0.00
MCPP	7.51	7.51	7.41	7.61	0.00
2,4-DCAA	7.15	7.15	7.05	7.25	0.00
Dalapon	2.59	2.59	2.49	2.69	0.00
MCPA	7.65	7.65	7.55	7.75	0.00
DICHLORPROP	8.02	8.02	7.92	8.12	0.00
2,4-D	8.24	8.24	8.14	8.34	0.00
2,4,5-TP(Silvex)	9.10	9.10	9.00	9.20	0.00
2,4,5-T	9.39	9.39	9.29	9.49	0.00
2,4-DB	9.95	9.96	9.86	10.06	0.01
Dinoseb	11.13	11.14	11.04	11.24	0.01
Pentachlorophenol	8.53	8.53	8.43	8.63	0.00
4-Nitrophenol	6.94	6.95	6.85	7.05	0.01
PICLORAM	10.95	10.96	10.86	11.06	0.01
DCPA	11.43	11.44	11.34	11.54	0.01
3,5-DICHLOROBENZ	6.33	6.33	6.23	6.43	0.00

Alliance TECHNICAL GROUP
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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Continuing Calib Date: 09/10/2024 **Initial Calibration Date(s):** 09/03/2024 09/03/2024

Continuing Calib Time: 14:18 **Initial Calibration Time(s):** 13:26 15:03

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.93	7.93	7.83	8.03	0.00
MCPP	8.03	8.03	7.93	8.13	0.00
2,4-DCAA	7.73	7.73	7.63	7.83	0.00
Dalapon	2.69	2.69	2.59	2.79	0.00
MCPA	8.27	8.27	8.17	8.37	0.00
DICHLORPROP	8.64	8.64	8.54	8.74	0.00
2,4-D	8.97	8.97	8.87	9.07	0.00
2,4,5-TP(Silvex)	9.87	9.87	9.77	9.97	0.00
2,4,5-T	10.29	10.28	10.18	10.38	0.00
2,4-DB	10.85	10.85	10.75	10.95	0.00
Dinoseb	11.23	11.23	11.13	11.33	0.00
Pentachlorophenol	9.49	9.49	9.39	9.59	0.00
4-Nitrophenol	7.26	7.26	7.16	7.36	0.00
PICLORAM	12.32	12.32	12.22	12.42	0.00
DCPA	12.27	12.27	12.17	12.37	0.00
3,5-DICHLOROBENZ	6.69	6.69	6.59	6.79	0.00

Alliance TECHNICAL GROUP

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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/03/2024 09/03/2024

Client Sample No.: CCAL01 **Date Analyzed:** 09/10/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS027618.D **Time Analyzed:** 14:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.386	9.289	9.489	720.670	712.500	1.1
2,4,5-TP(Silvex)	9.098	9.002	9.202	715.380	712.500	0.4
2,4-D	8.240	8.143	8.343	695.580	705.000	-1.3
2,4-DB	9.951	9.855	10.055	693.470	712.500	-2.7
2,4-DCAA	7.146	7.049	7.249	740.100	750.000	-1.3
3,5-DICHLOROBENZOIC ACID	6.331	6.233	6.433	697.050	697.500	-0.1
4-Nitrophenol	6.943	6.846	7.046	698.710	682.500	2.4
Dalapon	2.586	2.488	2.688	699.320	682.500	2.5
DCPA	11.433	11.337	11.537	731.730	720.000	1.6
DICAMBA	7.327	7.229	7.429	708.340	705.000	0.5
DICHLORPROP	8.016	7.919	8.119	688.250	705.000	-2.4
Dinoseb	11.134	11.037	11.237	780.880	705.000	10.8
MCPA	7.650	7.552	7.752	68.030	69.750	-2.5
MCPP	7.505	7.407	7.607	71.590	70.500	1.5
Pentachlorophenol	8.529	8.432	8.632	736.060	712.500	3.3
PICLORAM	10.952	10.855	11.055	679.900	712.500	-4.6

Alliance TECHNICAL GROUP

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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/03/2024 09/03/2024

Client Sample No.: CCAL01 **Date Analyzed:** 09/10/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS027618.D **Time Analyzed:** 14:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.285	10.183	10.383	715.170	712.500	0.4
2,4,5-TP(Silvex)	9.867	9.766	9.966	720.490	712.500	1.1
2,4-D	8.967	8.866	9.066	706.800	705.000	0.3
2,4-DB	10.849	10.748	10.948	706.720	712.500	-0.8
2,4-DCAA	7.730	7.630	7.830	747.480	750.000	-0.3
3,5-DICHLOROBENZOIC ACID	6.687	6.587	6.787	700.850	697.500	0.5
4-Nitrophenol	7.260	7.159	7.359	709.770	682.500	4.0
Dalapon	2.689	2.591	2.791	685.490	682.500	0.4
DCPA	12.267	12.166	12.366	732.200	720.000	1.7
DICAMBA	7.928	7.827	8.027	715.030	705.000	1.4
DICHLORPROP	8.639	8.538	8.738	707.750	705.000	0.4
Dinoseb	11.227	11.126	11.326	797.750	705.000	13.2
MCPA	8.272	8.172	8.372	66.830	69.750	-4.2
MCPP	8.030	7.929	8.129	70.210	70.500	-0.4
Pentachlorophenol	9.493	9.392	9.592	728.720	712.500	2.3
PICLORAM	12.317	12.216	12.416	686.060	712.500	-3.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091024\
Data File : PS027618.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 14:18
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 02:15:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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	7.146	7.730	1876.7E6	1436.9E6	740.096	747.481
		Target Compounds						
1)	T	Dalapon	2.586	2.689	2149.3E6	2378.5E6	699.322	685.490
2)	T	3,5-DICHL...	6.331	6.687	2798.8E6	1982.6E6	697.046	700.849
3)	T	4-Nitroph...	6.943	7.260	1041.5E6	914.4E6	698.708	709.765
5)	T	DICAMBA	7.327	7.928	7703.3E6	6350.8E6	708.345	715.029
6)	T	MCPP	7.505	8.030	533.2E6	416.1E6	71.587	70.208
7)	T	MCPA	7.650	8.272	682.4E6	573.5E6	68.027	66.826
8)	T	DICHLORPROP	8.016	8.639	1856.0E6	1537.2E6	688.248	707.750
9)	T	2,4-D	8.240	8.967	1973.5E6	1712.5E6	695.580	706.796
10)	T	Pentachlo...	8.529	9.493	29226.2E6	24076.3E6	736.058	728.725
11)	T	2,4,5-TP ...	9.098	9.867	11063.7E6	9510.1E6	715.384m	720.486
12)	T	2,4,5-T	9.386	10.285	10828.2E6	9307.9E6	720.668	715.175
13)	T	2,4-DB	9.951	10.849	1475.8E6	1148.5E6	693.469	706.720
14)	T	DINOSEB	11.134	11.227	8615.7E6	6542.4E6	780.876	797.752
15)	T	Picloram	10.952	12.317	13227.9E6	12649.8E6	679.895	686.059
16)	T	DCPA	11.433	12.267	13516.3E6	10516.4E6	731.735	732.200

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

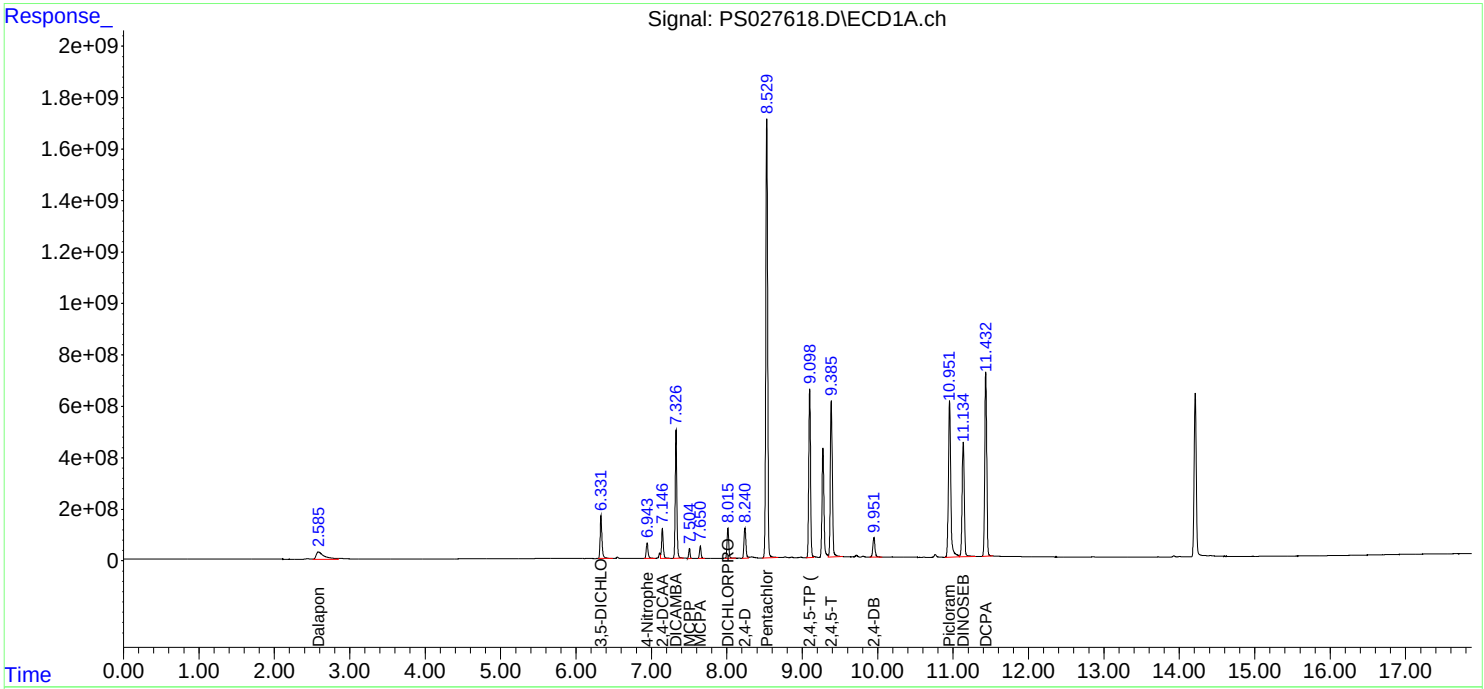
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091024\
Data File : PS027618.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 14:18
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

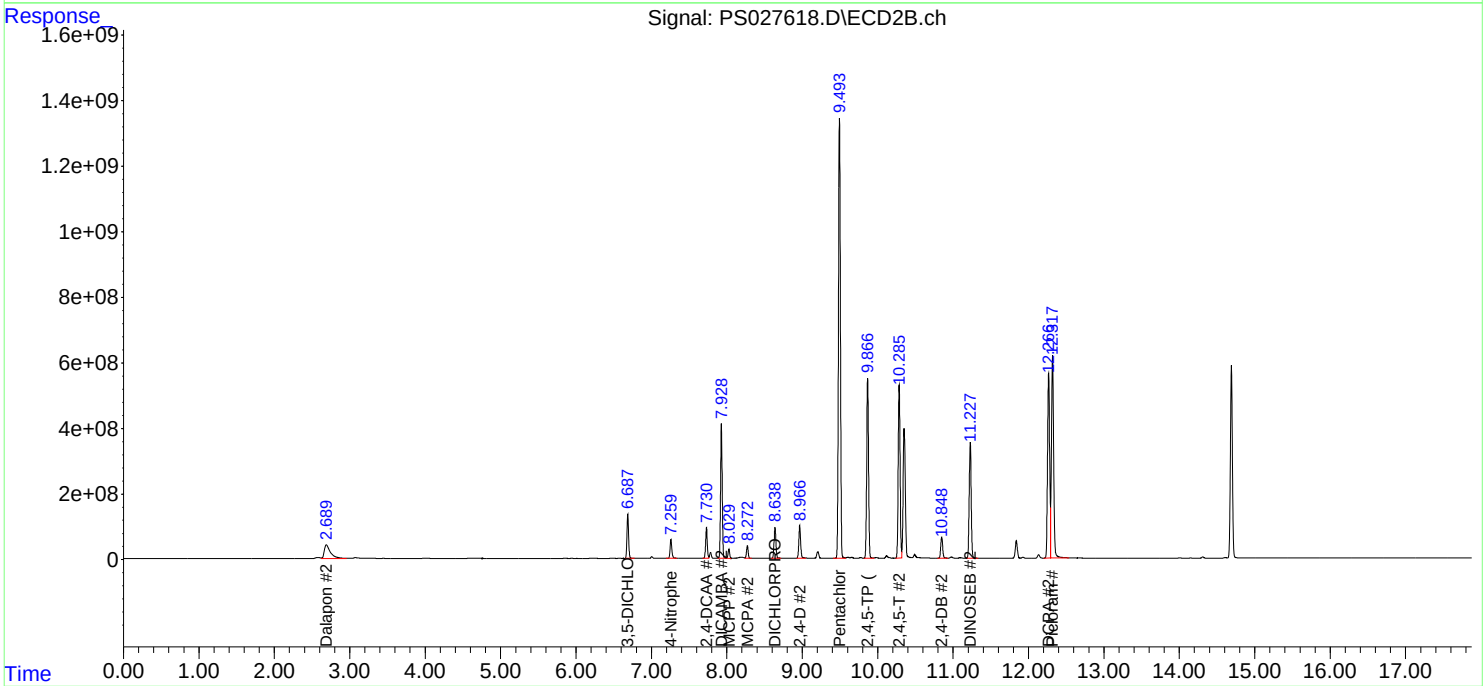
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

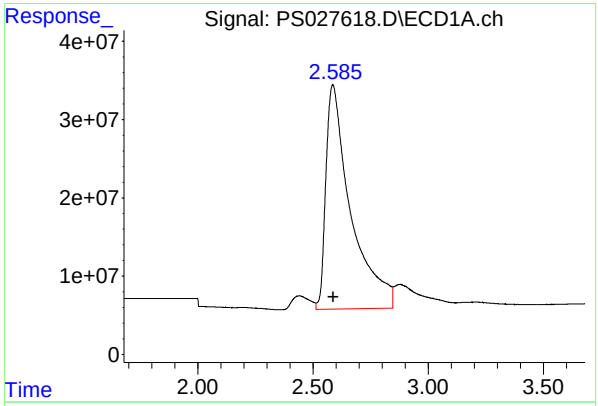
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 02:15:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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







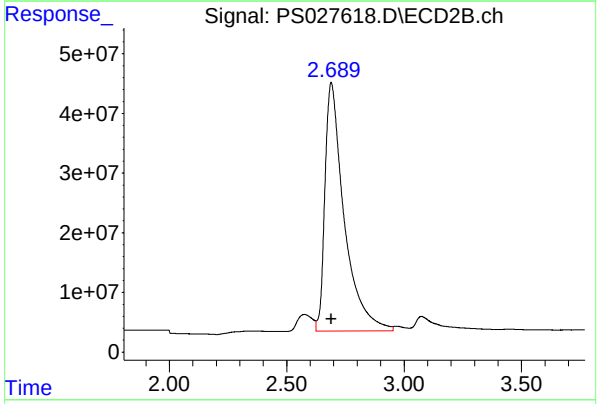
#1 Dalapon

R.T.: 2.586 min
Delta R.T.: -0.002 mi
Response: 2149346494
Conc: 699.32 ng/m

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

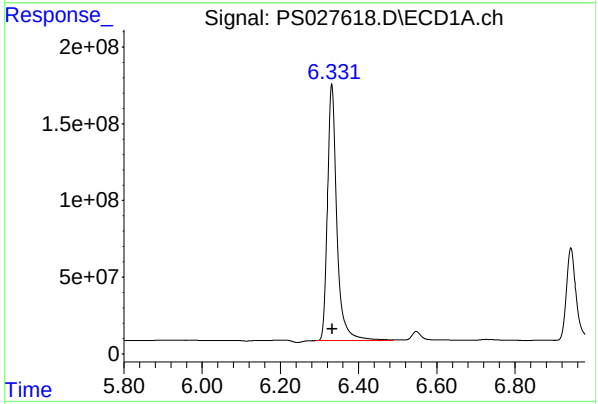
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



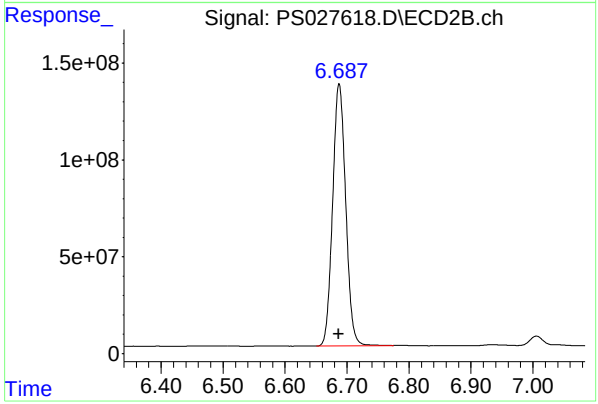
#1 Dalapon

R.T.: 2.689 min
Delta R.T.: -0.002 min
Response: 2378541224
Conc: 685.49 ng/ml



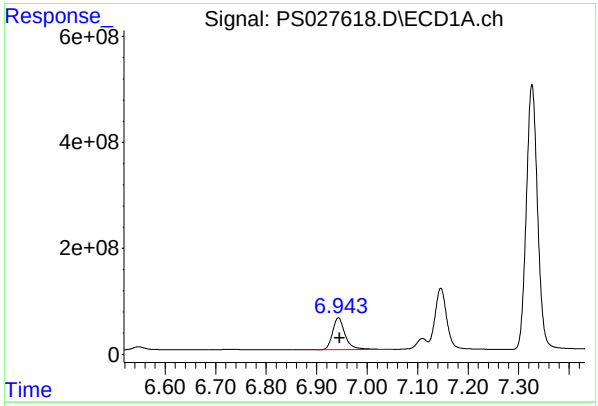
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.331 min
Delta R.T.: -0.002 min
Response: 2798818545
Conc: 697.05 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.687 min
Delta R.T.: 0.000 min
Response: 1982637670
Conc: 700.85 ng/ml



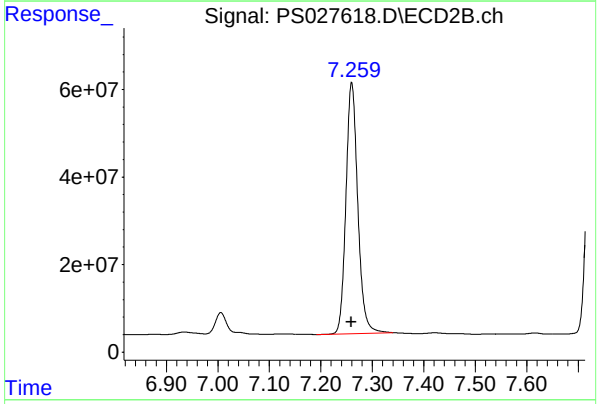
#3 4-Nitrophenol

R.T.: 6.943 min
Delta R.T.: -0.003 min
Response: 1041515777
Conc: 698.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

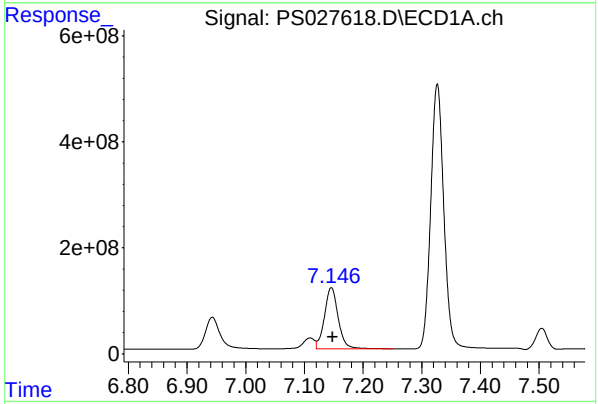
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



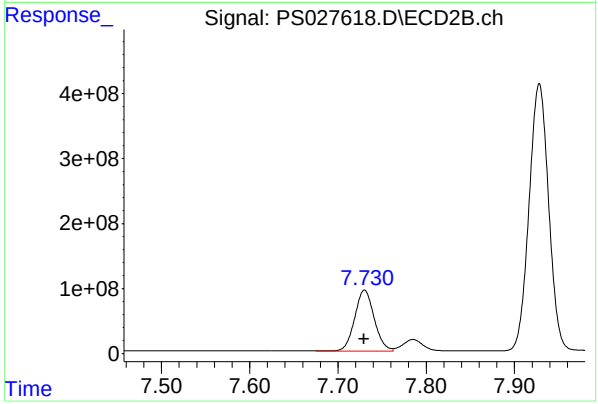
#3 4-Nitrophenol

R.T.: 7.260 min
Delta R.T.: 0.000 min
Response: 914387611
Conc: 709.77 ng/ml



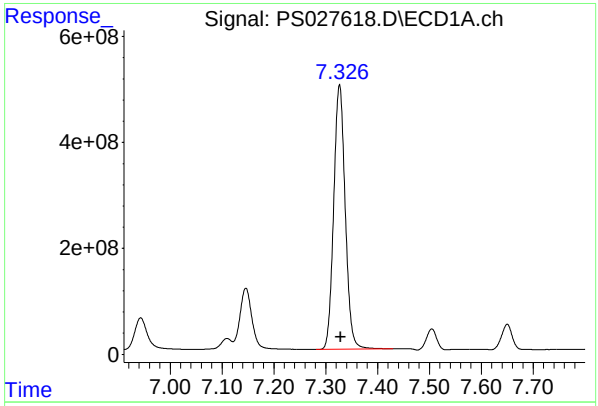
#4 2,4-DCAA

R.T.: 7.146 min
Delta R.T.: -0.003 min
Response: 1876747545
Conc: 740.10 ng/ml



#4 2,4-DCAA

R.T.: 7.730 min
Delta R.T.: 0.000 min
Response: 1436902899
Conc: 747.48 ng/ml



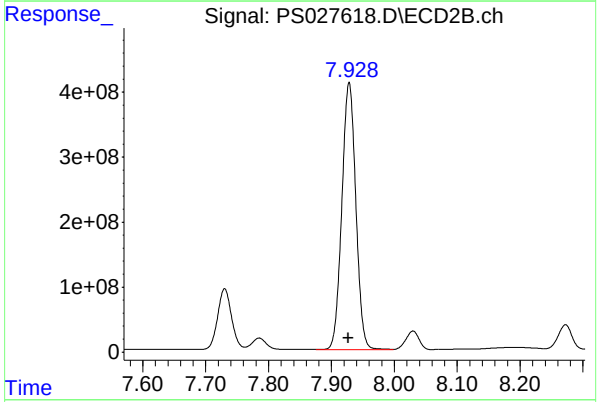
#5 DICAMBA

R.T.: 7.327 min
Delta R.T.: -0.002 min
Response: 7703252515
Conc: 708.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

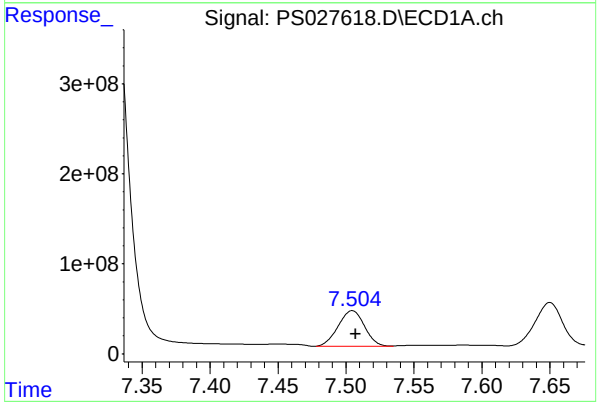
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



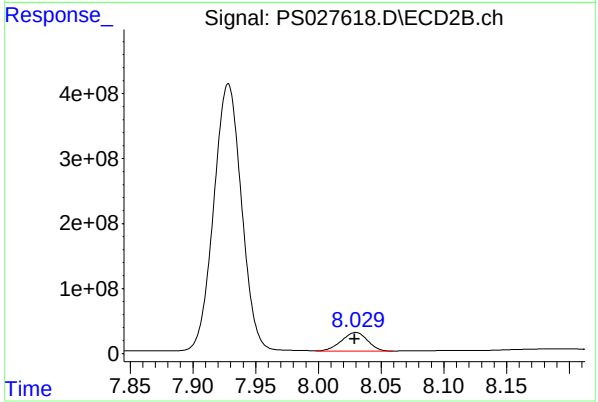
#5 DICAMBA

R.T.: 7.928 min
Delta R.T.: 0.001 min
Response: 6350793697
Conc: 715.03 ng/ml



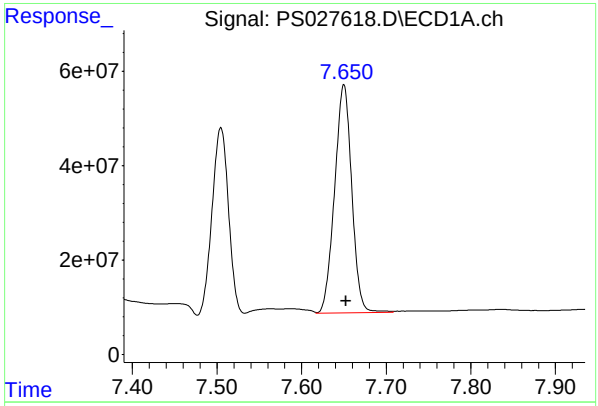
#6 MCPP

R.T.: 7.505 min
Delta R.T.: -0.003 min
Response: 533204630
Conc: 71.59 ug/ml



#6 MCPP

R.T.: 8.030 min
Delta R.T.: 0.001 min
Response: 416057898
Conc: 70.21 ug/ml



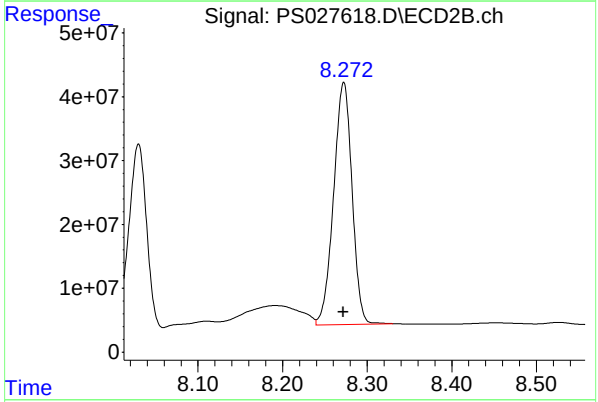
#7 MCPA

R.T.: 7.650 min
Delta R.T.: -0.002 min
Response: 682417386
Conc: 68.03 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

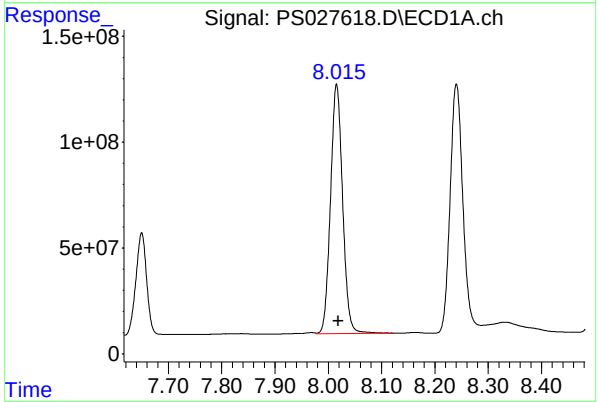
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



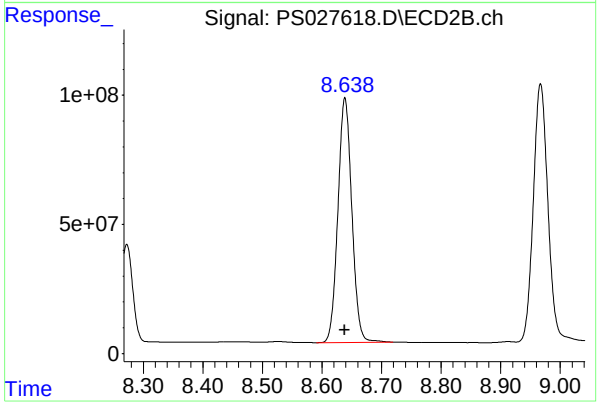
#7 MCPA

R.T.: 8.272 min
Delta R.T.: 0.000 min
Response: 573454840
Conc: 66.83 ug/ml



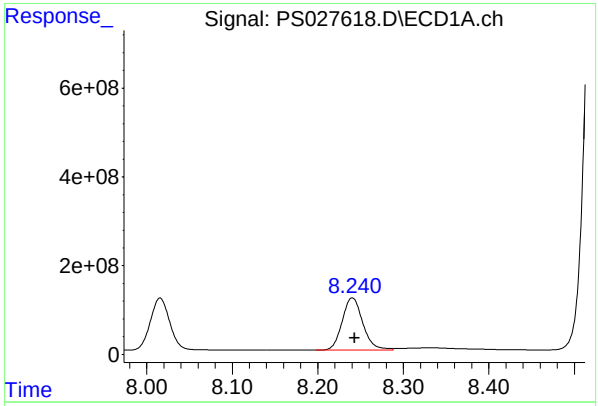
#8 DICHLORPROP

R.T.: 8.016 min
Delta R.T.: -0.003 min
Response: 1856047686
Conc: 688.25 ng/ml



#8 DICHLORPROP

R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 1537186546
Conc: 707.75 ng/ml



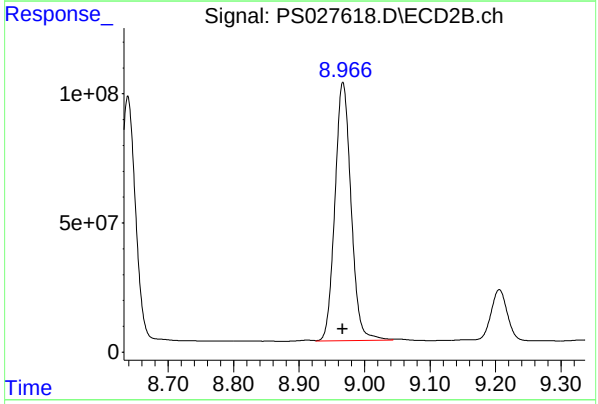
#9 2,4-D

R.T.: 8.240 min
Delta R.T.: -0.003 min
Response: 1973452301
Conc: 695.58 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

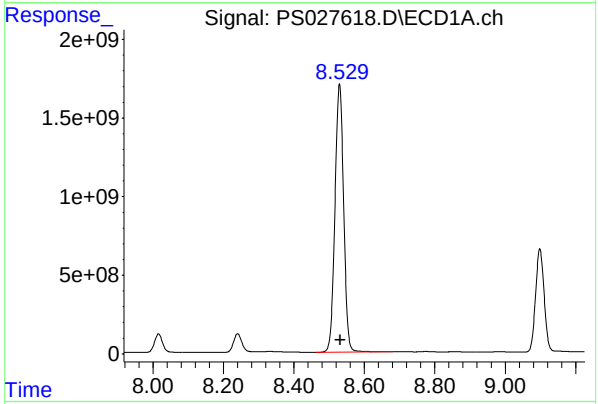
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



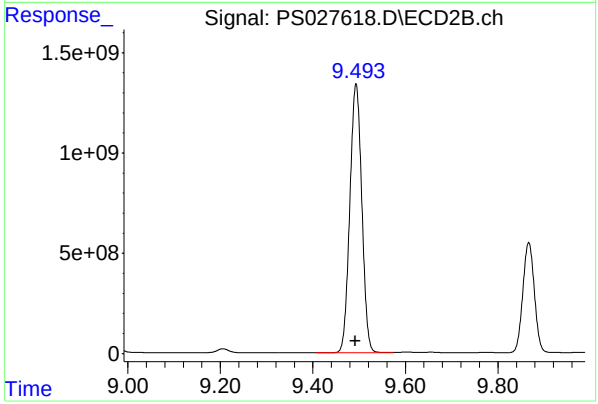
#9 2,4-D

R.T.: 8.967 min
Delta R.T.: 0.000 min
Response: 1712508284
Conc: 706.80 ng/ml



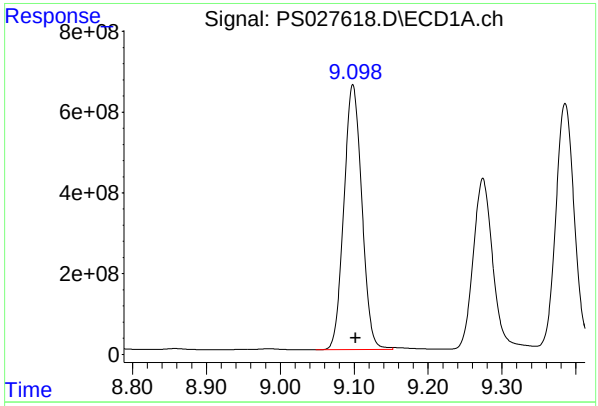
#10 Pentachlorophenol

R.T.: 8.529 min
Delta R.T.: -0.003 min
Response: 29226195427
Conc: 736.06 ng/ml



#10 Pentachlorophenol

R.T.: 9.493 min
Delta R.T.: 0.001 min
Response: 24076284308
Conc: 728.72 ng/ml



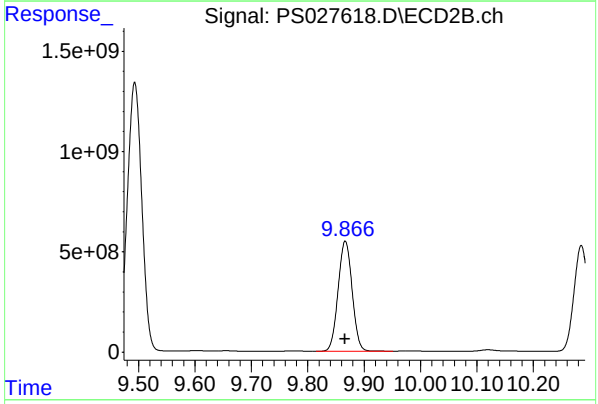
#11 2,4,5-TP (SILVEX)

R.T.: 9.098 min
Delta R.T.: -0.004 min
Response: 11063692658
Conc: 715.38 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

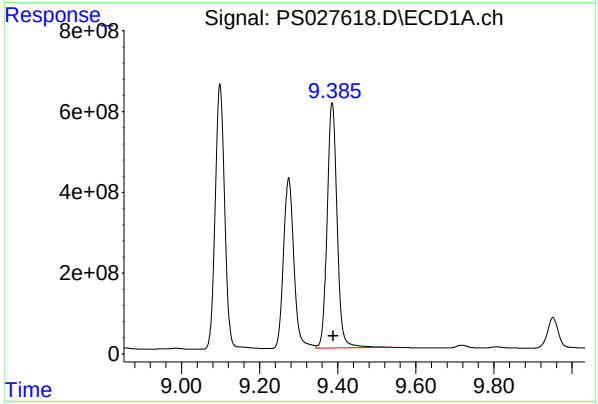
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



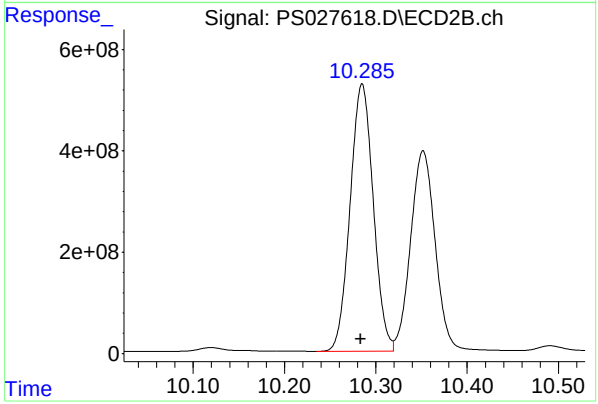
#11 2,4,5-TP (SILVEX)

R.T.: 9.867 min
Delta R.T.: 0.000 min
Response: 9510120614
Conc: 720.49 ng/ml



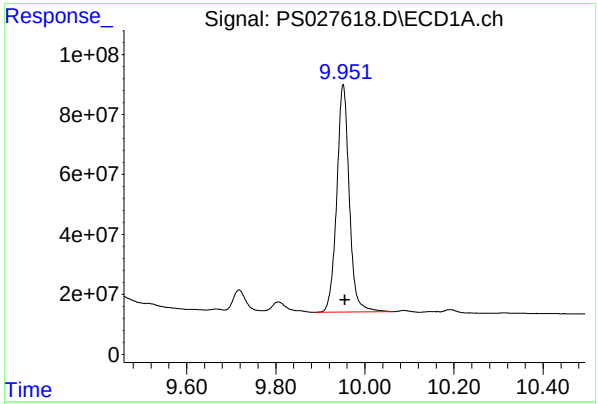
#12 2,4,5-T

R.T.: 9.386 min
Delta R.T.: -0.003 min
Response: 10828200261
Conc: 720.67 ng/ml



#12 2,4,5-T

R.T.: 10.285 min
Delta R.T.: 0.002 min
Response: 9307907332
Conc: 715.17 ng/ml



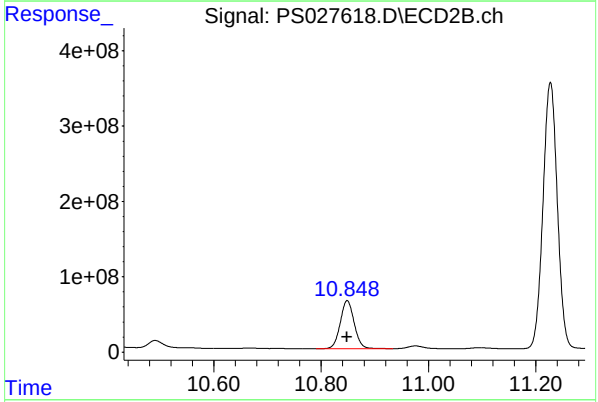
#13 2,4-DB

R.T.: 9.951 min
Delta R.T.: -0.004 min
Response: 1475776350
Conc: 693.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

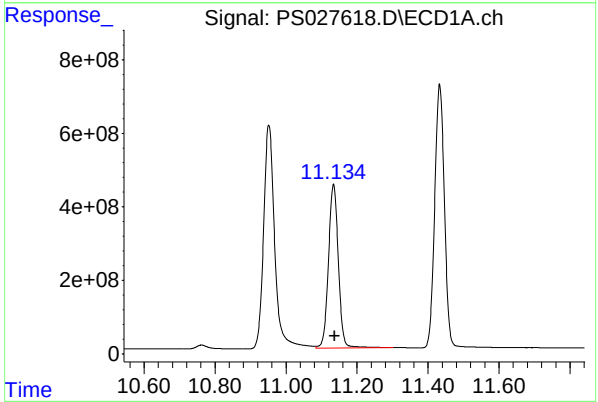
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



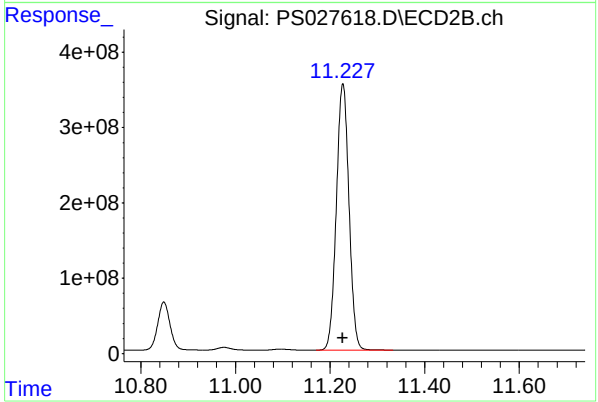
#13 2,4-DB

R.T.: 10.849 min
Delta R.T.: 0.000 min
Response: 1148468405
Conc: 706.72 ng/ml



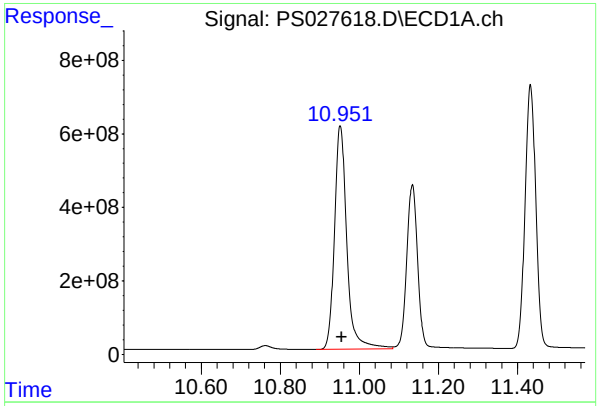
#14 DINOSEB

R.T.: 11.134 min
Delta R.T.: -0.003 min
Response: 8615718199
Conc: 780.88 ng/ml



#14 DINOSEB

R.T.: 11.227 min
Delta R.T.: 0.000 min
Response: 6542438225
Conc: 797.75 ng/ml



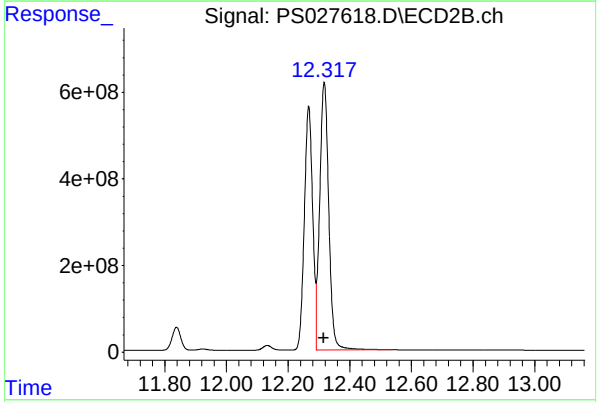
#15 Picloram

R.T.: 10.952 min
Delta R.T.: -0.003 min
Response: 13227931994
Conc: 679.90 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

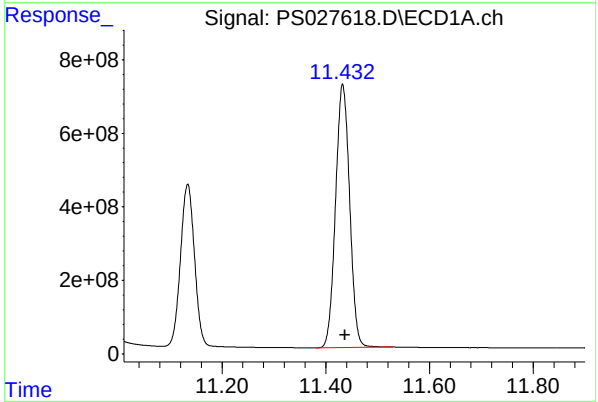
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



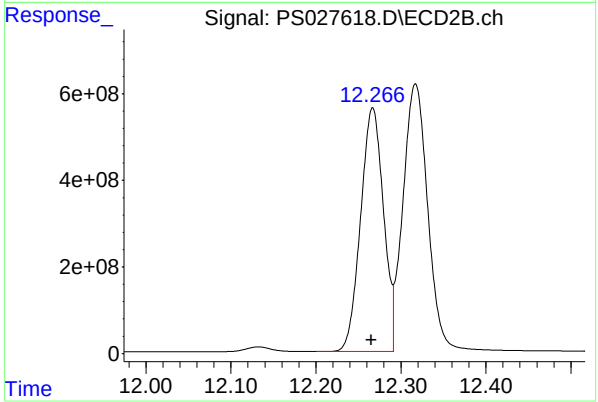
#15 Picloram

R.T.: 12.317 min
Delta R.T.: 0.001 min
Response: 12649819934
Conc: 686.06 ng/ml



#16 DCPA

R.T.: 11.433 min
Delta R.T.: -0.004 min
Response: 13516297478
Conc: 731.73 ng/ml



#16 DCPA

R.T.: 12.267 min
Delta R.T.: 0.001 min
Response: 10516405451
Conc: 732.20 ng/ml

Alliance TECHNICAL GROUP
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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Continuing Calib Date: 09/10/2024 **Initial Calibration Date(s):** 09/03/2024 09/03/2024

Continuing Calib Time: 22:02 **Initial Calibration Time(s):** 13:26 15:03

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.33	7.33	7.23	7.43	0.00
MCPP	7.50	7.51	7.41	7.61	0.01
2,4-DCAA	7.15	7.15	7.05	7.25	0.01
Dalapon	2.58	2.59	2.49	2.69	0.01
MCPA	7.65	7.65	7.55	7.75	0.00
DICHLORPROP	8.01	8.02	7.92	8.12	0.01
2,4-D	8.24	8.24	8.14	8.34	0.00
2,4,5-TP(Silvex)	9.10	9.10	9.00	9.20	0.00
2,4,5-T	9.38	9.39	9.29	9.49	0.01
2,4-DB	9.95	9.96	9.86	10.06	0.01
Dinoseb	11.13	11.14	11.04	11.24	0.01
Pentachlorophenol	8.53	8.53	8.43	8.63	0.00
4-Nitrophenol	6.94	6.95	6.85	7.05	0.01
PICLORAM	10.95	10.96	10.86	11.06	0.01
DCPA	11.43	11.44	11.34	11.54	0.01
3,5-DICHLOROBENZ	6.33	6.33	6.23	6.43	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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Continuing Calib Date: 09/10/2024 **Initial Calibration Date(s):** 09/03/2024 09/03/2024

Continuing Calib Time: 22:02 **Initial Calibration Time(s):** 13:26 15:03

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.93	7.93	7.83	8.03	0.00
MCPP	8.03	8.03	7.93	8.13	0.00
2,4-DCAA	7.73	7.73	7.63	7.83	0.00
Dalapon	2.69	2.69	2.59	2.79	0.00
MCPA	8.27	8.27	8.17	8.37	0.00
DICHLORPROP	8.64	8.64	8.54	8.74	0.00
2,4-D	8.97	8.97	8.87	9.07	0.00
2,4,5-TP(Silvex)	9.87	9.87	9.77	9.97	0.00
2,4,5-T	10.29	10.28	10.18	10.38	0.00
2,4-DB	10.85	10.85	10.75	10.95	0.00
Dinoseb	11.23	11.23	11.13	11.33	0.00
Pentachlorophenol	9.49	9.49	9.39	9.59	0.00
4-Nitrophenol	7.26	7.26	7.16	7.36	0.00
PICLORAM	12.32	12.32	12.22	12.42	0.00
DCPA	12.27	12.27	12.17	12.37	0.00
3,5-DICHLOROBENZ	6.69	6.69	6.59	6.79	0.00

Alliance TECHNICAL GROUP

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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/03/2024 09/03/2024

Client Sample No.: CCAL02 **Date Analyzed:** 09/10/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS027630.D **Time Analyzed:** 22:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.383	9.289	9.489	700.120	712.500	-1.7
2,4,5-TP(Silvex)	9.097	9.002	9.202	719.350	712.500	1.0
2,4-D	8.239	8.143	8.343	704.070	705.000	-0.1
2,4-DB	9.950	9.855	10.055	715.240	712.500	0.4
2,4-DCAA	7.145	7.049	7.249	687.350	750.000	-8.4
3,5-DICHLOROBENZOIC ACID	6.331	6.233	6.433	692.970	697.500	-0.6
4-Nitrophenol	6.942	6.846	7.046	696.710	682.500	2.1
Dalapon	2.584	2.488	2.688	689.510	682.500	1.0
DCPA	11.431	11.337	11.537	728.090	720.000	1.1
DICAMBA	7.326	7.229	7.429	710.470	705.000	0.8
DICHLORPROP	8.014	7.919	8.119	678.790	705.000	-3.7
Dinoseb	11.132	11.037	11.237	732.780	705.000	3.9
MCPA	7.649	7.552	7.752	68.650	69.750	-1.6
MCPP	7.504	7.407	7.607	71.770	70.500	1.8
Pentachlorophenol	8.528	8.432	8.632	734.270	712.500	3.1
PICLORAM	10.950	10.855	11.055	728.980	712.500	2.3

Alliance TECHNICAL GROUP

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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/03/2024 09/03/2024

Client Sample No.: CCAL02 **Date Analyzed:** 09/10/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS027630.D **Time Analyzed:** 22:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.285	10.183	10.383	722.940	712.500	1.5
2,4,5-TP(Silvex)	9.867	9.766	9.966	720.290	712.500	1.1
2,4-D	8.967	8.866	9.066	708.710	705.000	0.5
2,4-DB	10.849	10.748	10.948	714.910	712.500	0.3
2,4-DCAA	7.730	7.630	7.830	750.060	750.000	0.0
3,5-DICHLOROBENZOIC ACID	6.688	6.587	6.787	698.570	697.500	0.2
4-Nitrophenol	7.260	7.159	7.359	703.630	682.500	3.1
Dalapon	2.690	2.591	2.791	679.040	682.500	-0.5
DCPA	12.267	12.166	12.366	727.660	720.000	1.1
DICAMBA	7.928	7.827	8.027	711.150	705.000	0.9
DICHLORPROP	8.639	8.538	8.738	702.120	705.000	-0.4
Dinoseb	11.227	11.126	11.326	785.670	705.000	11.4
MCPA	8.273	8.172	8.372	68.520	69.750	-1.8
MCPP	8.030	7.929	8.129	70.880	70.500	0.5
Pentachlorophenol	9.493	9.392	9.592	727.040	712.500	2.0
PICLORAM	12.317	12.216	12.416	732.020	712.500	2.7

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091024\
Data File : PS027630.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 22:02
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 01:22:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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	7.145	7.730	1743.0E6	1441.9E6	687.353m	750.063
	Target Compounds						
1) T	Dalapon	2.584	2.690	2119.2E6	2356.2E6	689.506	679.037
2) T	3,5-DICHL...	6.331	6.688	2782.5E6	1976.2E6	692.969	698.570
3) T	4-Nitroph...	6.942	7.260	1038.5E6	906.5E6	696.707	703.629
5) T	DICAMBA	7.326	7.928	7726.4E6	6316.3E6	710.471	711.148m
6) T	MCPP	7.504	8.030	534.6E6	420.1E6	71.770	70.885
7) T	MCPA	7.649	8.273	688.6E6	588.0E6	68.647	68.517
8) T	DICHLORPROP	8.014	8.639	1830.5E6	1525.0E6	678.786m	702.120
9) T	2,4-D	8.239	8.967	1997.5E6	1717.1E6	704.074	708.706
10) T	Pentachlo...	8.528	9.493	29155.2E6	24020.6E6	734.269	727.041
11) T	2,4,5-TP ...	9.097	9.867	11125.1E6	9507.5E6	719.353	720.286
12) T	2,4,5-T	9.383	10.285	10519.5E6	9409.0E6	700.120m	722.940
13) T	2,4-DB	9.950	10.849	1522.1E6	1161.8E6	715.241	714.913
14) T	DINOSEB	11.132	11.227	8085.1E6	6443.4E6	732.781m	785.672
15) T	Picloram	10.950	12.317	14183.0E6	13497.2E6	728.985	732.017
16) T	DCPA	11.431	12.267	13449.0E6	10451.3E6	728.090	727.665

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

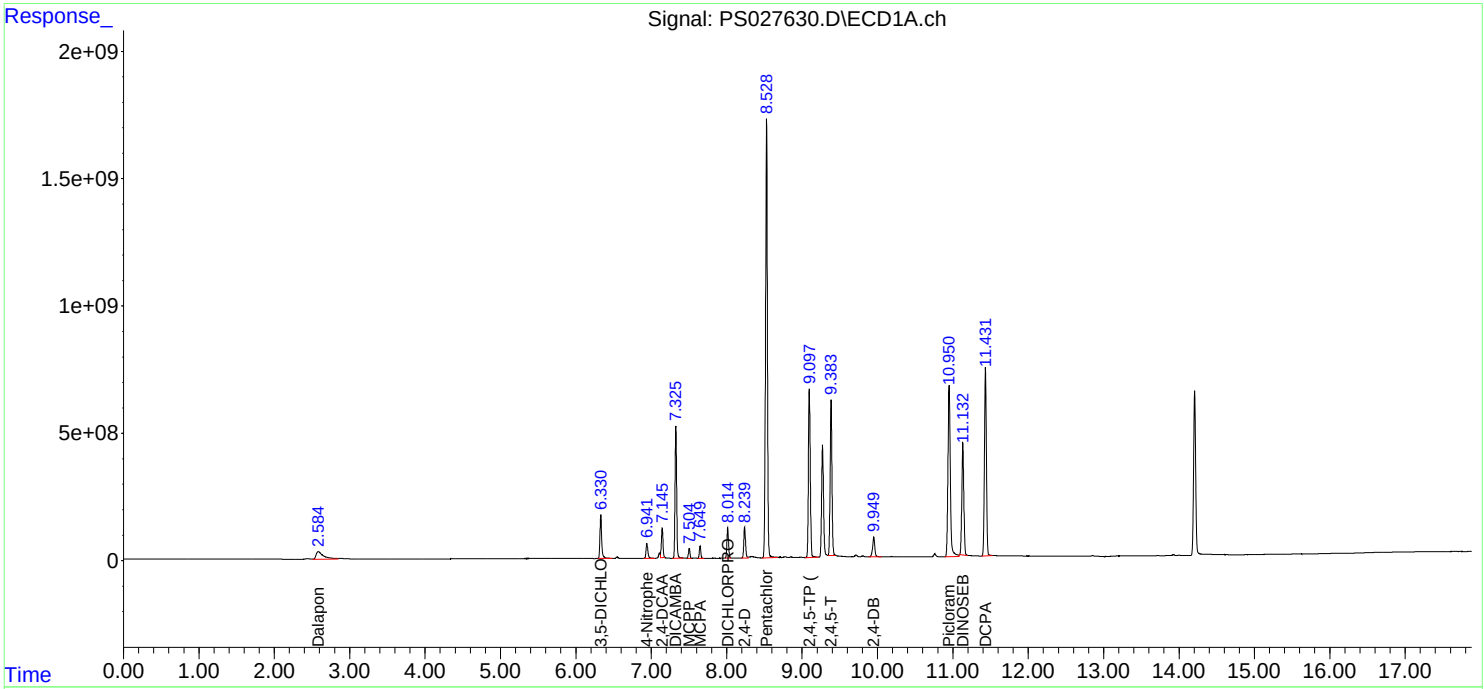
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091024\
Data File : PS027630.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 22:02
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

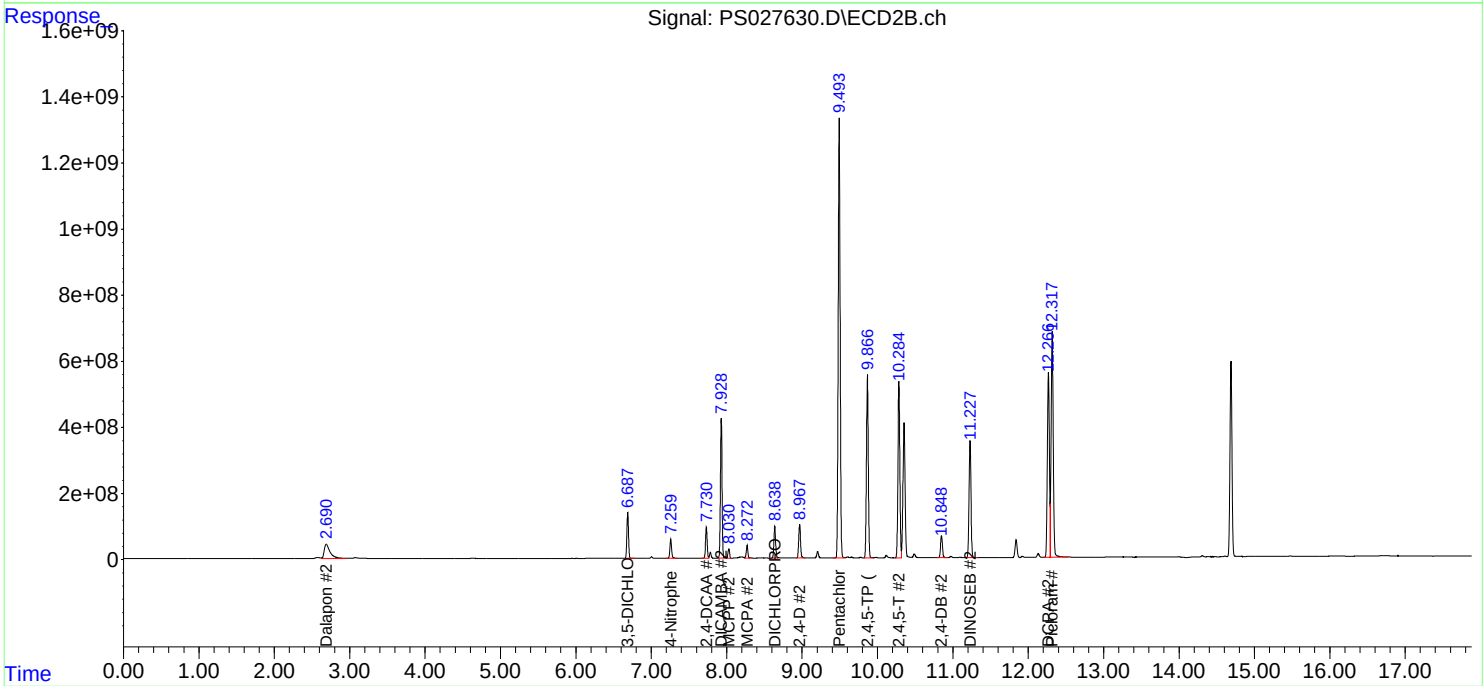
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

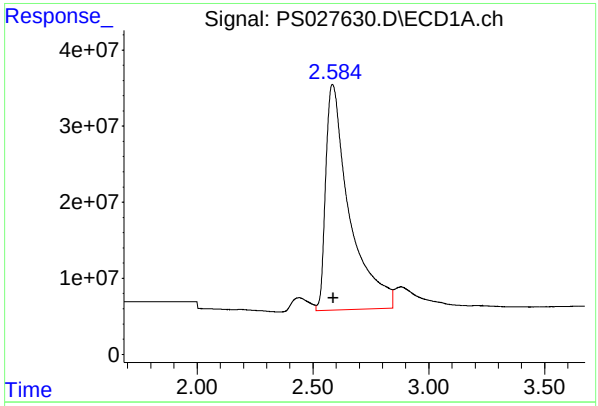
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 01:22:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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







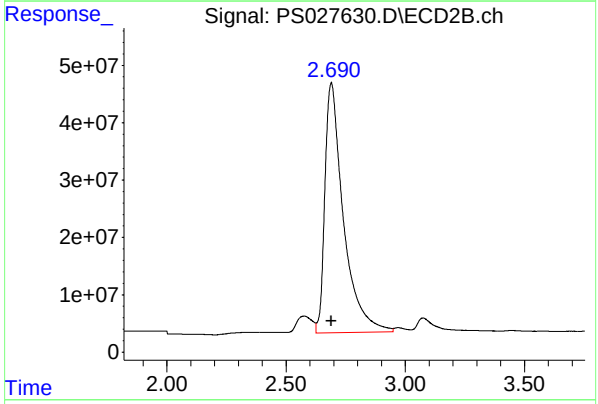
#1 Dalapon

R.T.: 2.584 min
Delta R.T.: -0.004 min
Response: 2119177546
Conc: 689.51 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

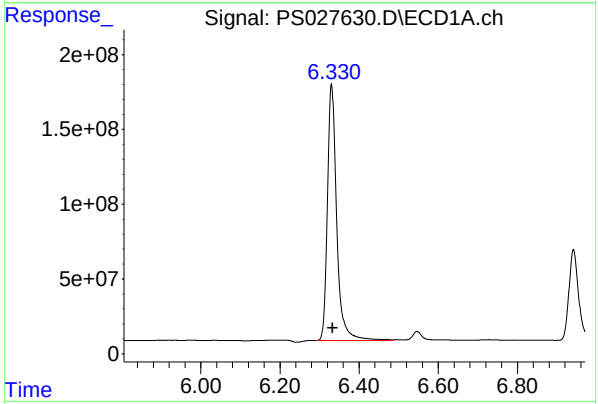
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



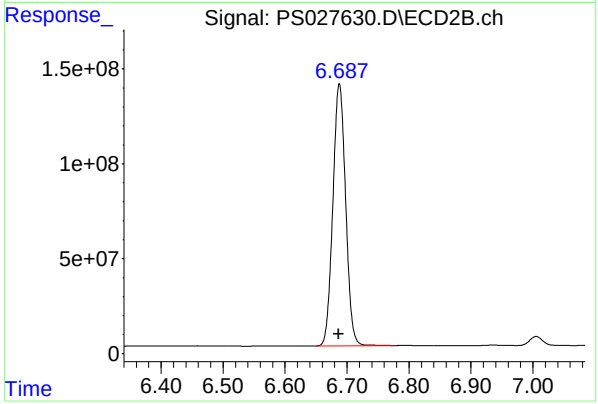
#1 Dalapon

R.T.: 2.690 min
Delta R.T.: 0.000 min
Response: 2356152933
Conc: 679.04 ng/ml



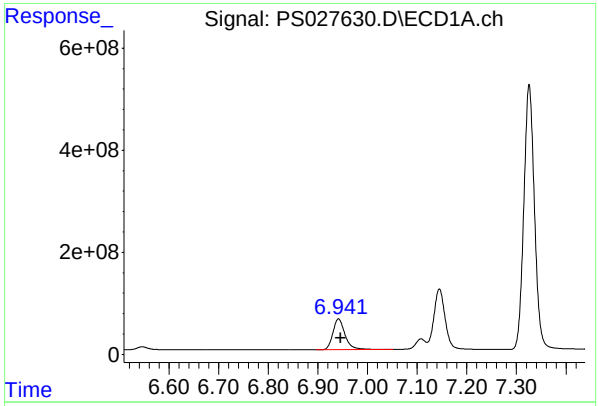
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.331 min
Delta R.T.: -0.003 min
Response: 2782450413
Conc: 692.97 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.688 min
Delta R.T.: 0.001 min
Response: 1976189319
Conc: 698.57 ng/ml



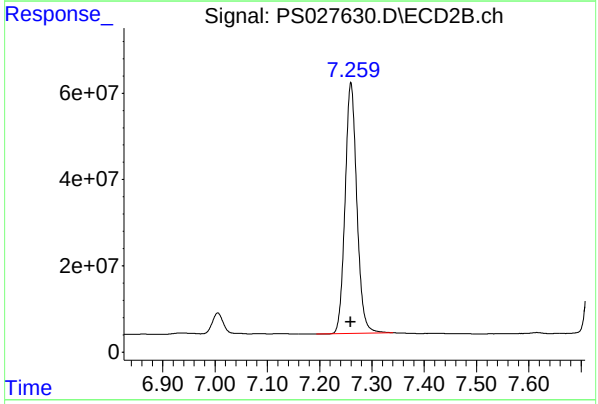
#3 4-Nitrophenol

R.T.: 6.942 min
Delta R.T.: -0.004 min
Response: 1038531724
Conc: 696.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

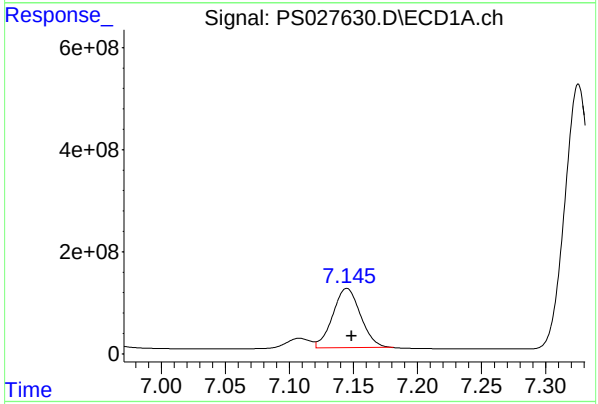
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



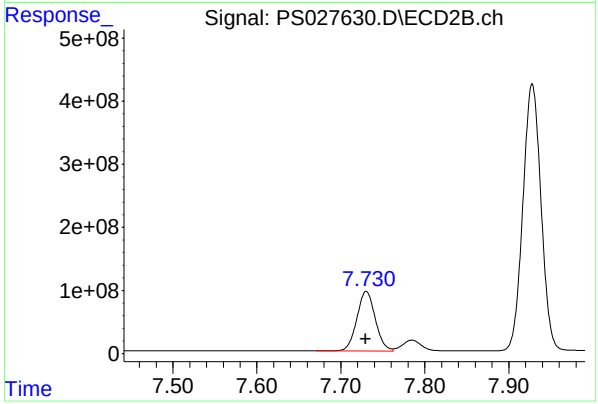
#3 4-Nitrophenol

R.T.: 7.260 min
Delta R.T.: 0.000 min
Response: 906482285
Conc: 703.63 ng/ml



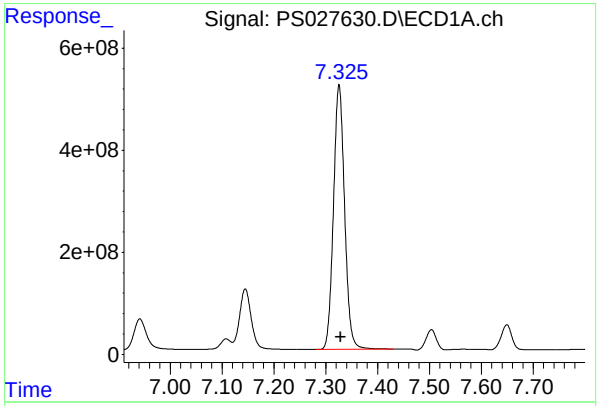
#4 2,4-DCAA

R.T.: 7.145 min
Delta R.T.: -0.004 min
Response: 1743001205
Conc: 687.35 ng/ml m



#4 2,4-DCAA

R.T.: 7.730 min
Delta R.T.: 0.000 min
Response: 1441867460
Conc: 750.06 ng/ml



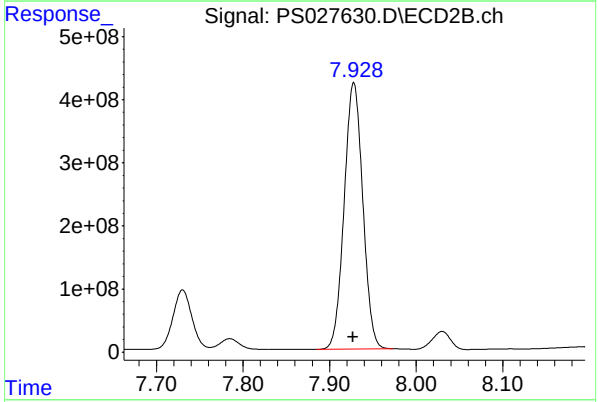
#5 DICAMBA

R.T.: 7.326 min
Delta R.T.: -0.003 mi
Response: 7726370964
Conc: 710.47 ng/m

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

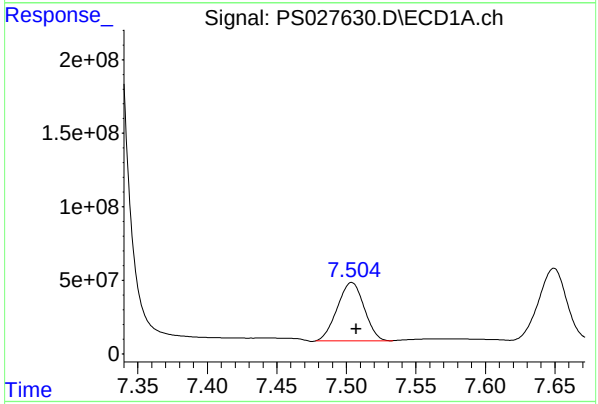
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



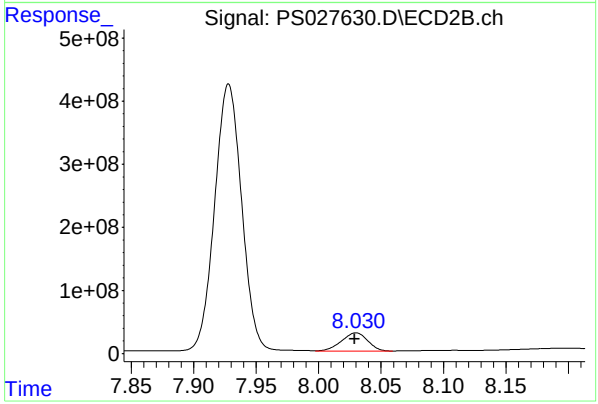
#5 DICAMBA

R.T.: 7.928 min
Delta R.T.: 0.000 min
Response: 6316325384
Conc: 711.15 ng/ml m



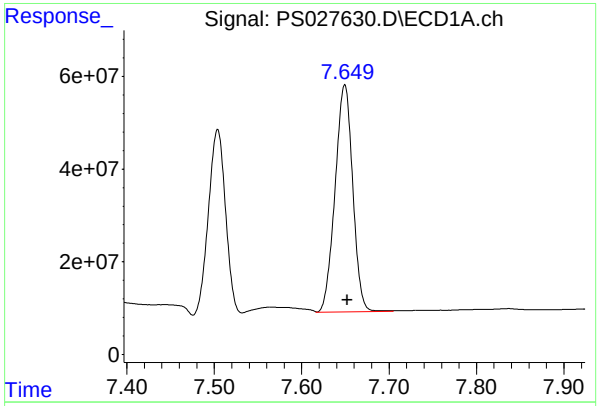
#6 MCPP

R.T.: 7.504 min
Delta R.T.: -0.003 min
Response: 534567583
Conc: 71.77 ug/ml



#6 MCPP

R.T.: 8.030 min
Delta R.T.: 0.001 min
Response: 420067075
Conc: 70.88 ug/ml



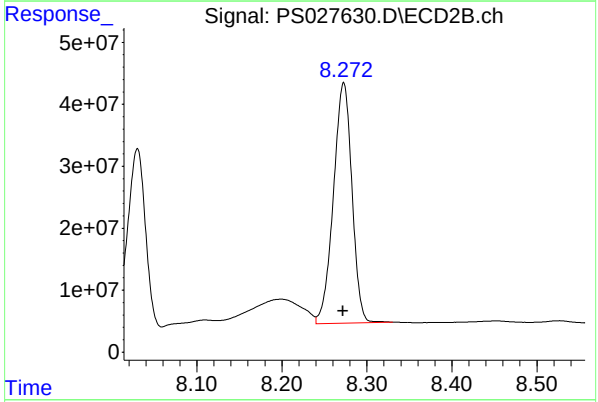
#7 MCPA

R.T.: 7.649 min
Delta R.T.: -0.003 mi
Response: 688641264
Conc: 68.65 ug/m

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

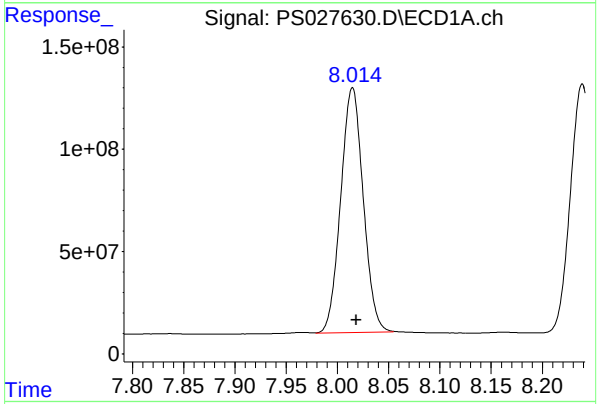
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



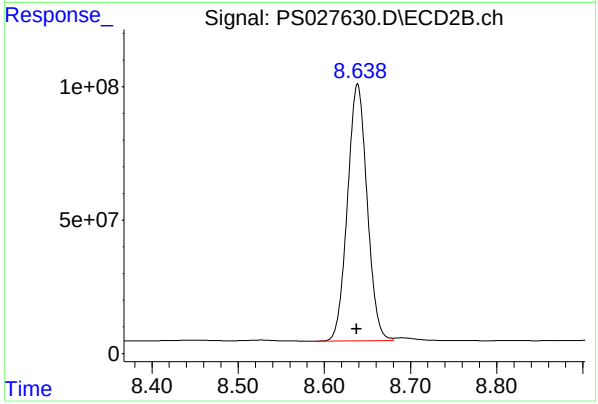
#7 MCPA

R.T.: 8.273 min
Delta R.T.: 0.001 min
Response: 587964485
Conc: 68.52 ug/ml



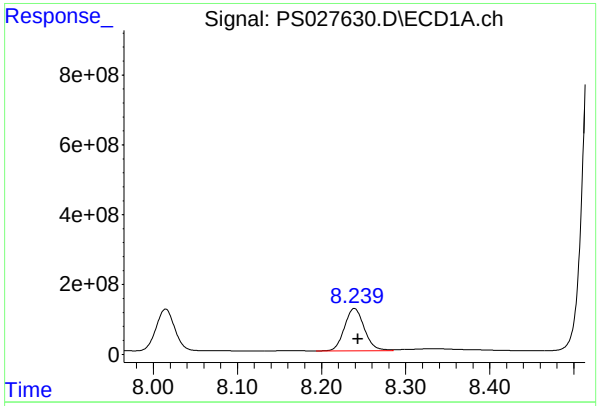
#8 DICHLORPROP

R.T.: 8.014 min
Delta R.T.: -0.004 min
Response: 1830533294
Conc: 678.79 ng/ml m



#8 DICHLORPROP

R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 1524959312
Conc: 702.12 ng/ml



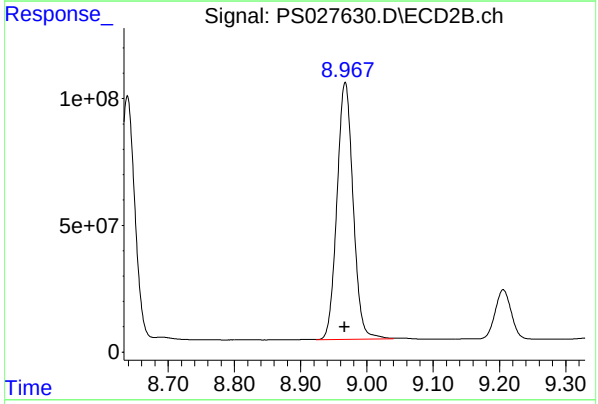
#9 2,4-D

R.T.: 8.239 min
Delta R.T.: -0.004 min
Response: 1997548468
Conc: 704.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

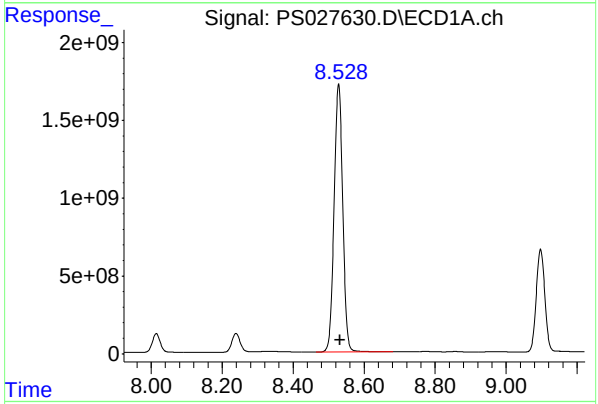
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



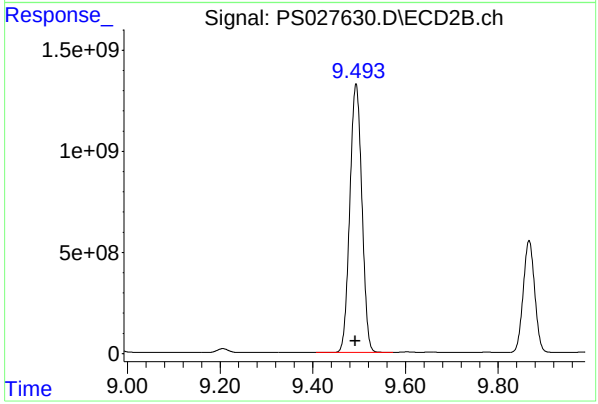
#9 2,4-D

R.T.: 8.967 min
Delta R.T.: 0.000 min
Response: 1717135310
Conc: 708.71 ng/ml



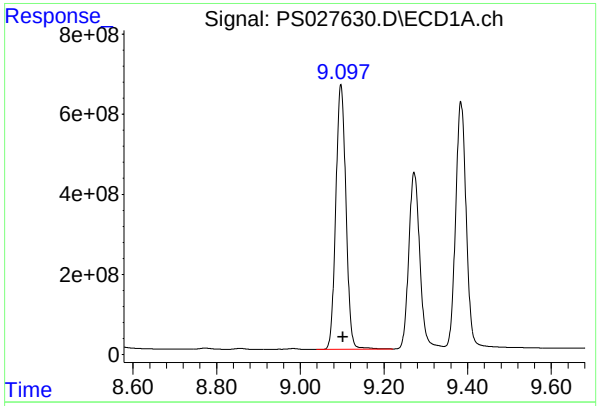
#10 Pentachlorophenol

R.T.: 8.528 min
Delta R.T.: -0.004 min
Response: 29155154856
Conc: 734.27 ng/ml



#10 Pentachlorophenol

R.T.: 9.493 min
Delta R.T.: 0.001 min
Response: 24020642536
Conc: 727.04 ng/ml



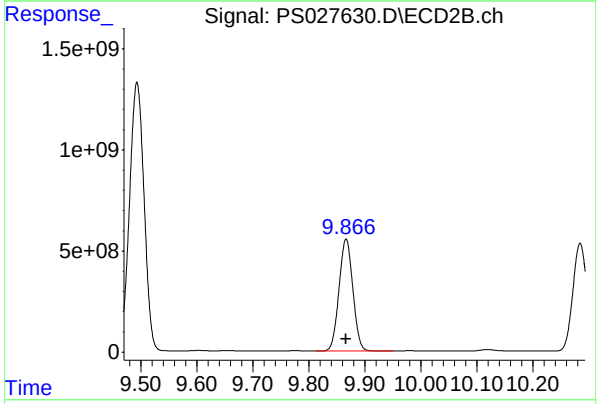
#11 2,4,5-TP (SILVEX)

R.T.: 9.097 min
Delta R.T.: -0.005 mi
Response: 11125080282
Conc: 719.35 ng/m

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

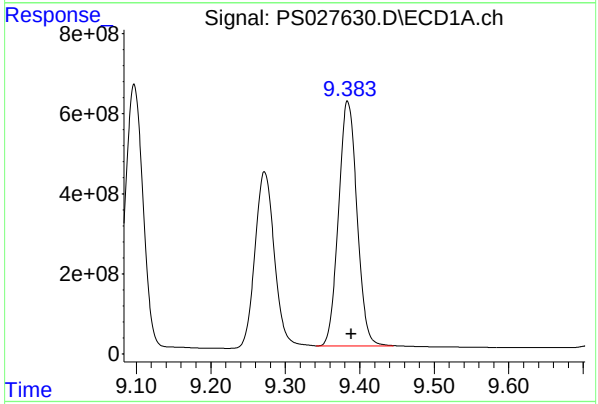
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



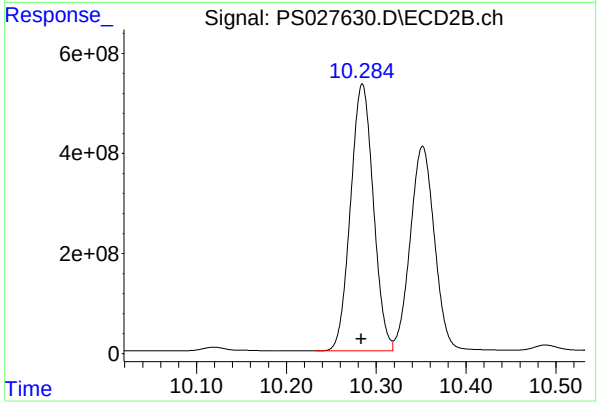
#11 2,4,5-TP (SILVEX)

R.T.: 9.867 min
Delta R.T.: 0.000 min
Response: 9507474057
Conc: 720.29 ng/ml



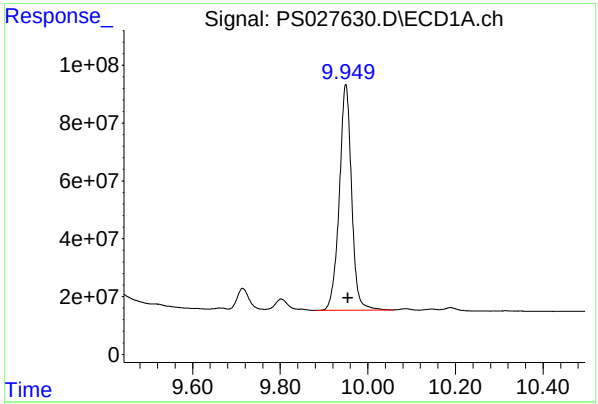
#12 2,4,5-T

R.T.: 9.383 min
Delta R.T.: -0.006 min
Response: 10519456384
Conc: 700.12 ng/ml m



#12 2,4,5-T

R.T.: 10.285 min
Delta R.T.: 0.001 min
Response: 9408968983
Conc: 722.94 ng/ml



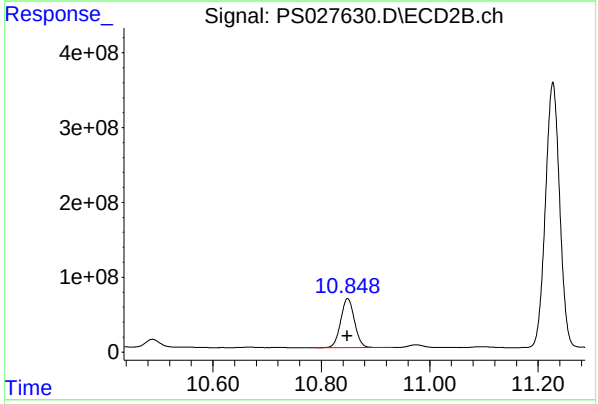
#13 2,4-DB

R.T.: 9.950 min
Delta R.T.: -0.005 min
Response: 1522111431
Conc: 715.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

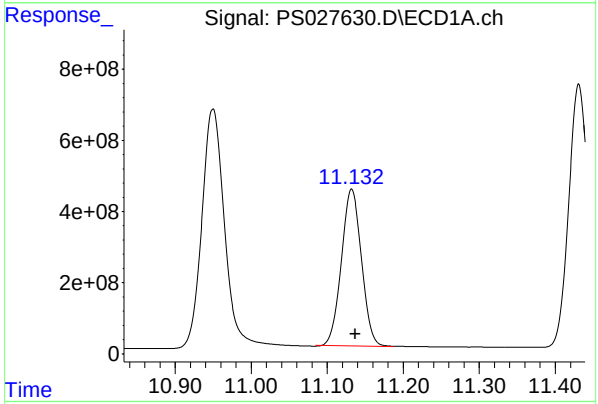
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



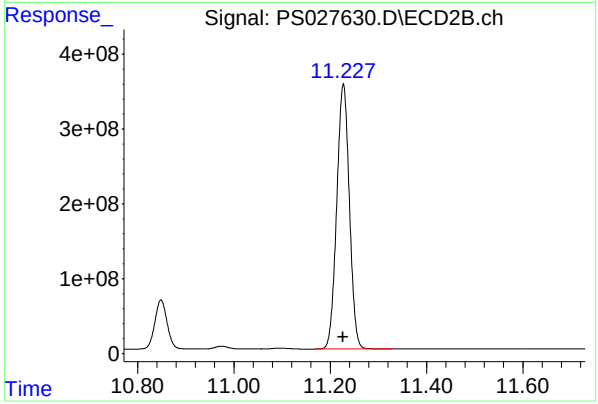
#13 2,4-DB

R.T.: 10.849 min
Delta R.T.: 0.000 min
Response: 1161781771
Conc: 714.91 ng/ml



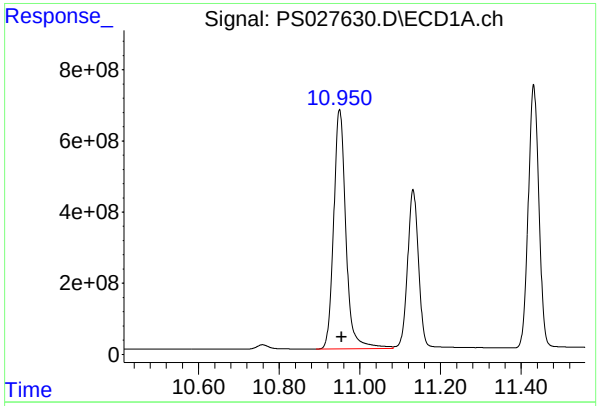
#14 DINOSEB

R.T.: 11.132 min
Delta R.T.: -0.005 min
Response: 8085072930
Conc: 732.78 ng/ml m



#14 DINOSEB

R.T.: 11.227 min
Delta R.T.: 0.000 min
Response: 6443374749
Conc: 785.67 ng/ml



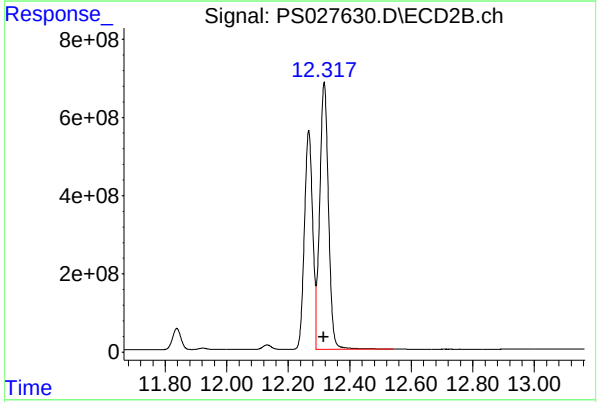
#15 Picloram

R.T.: 10.950 min
Delta R.T.: -0.005 min
Response: 14183005999
Conc: 728.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

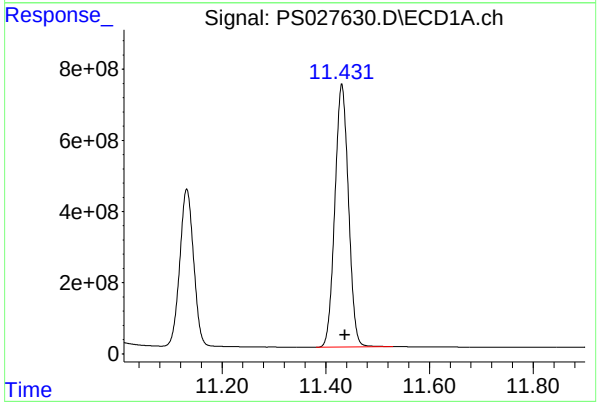
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



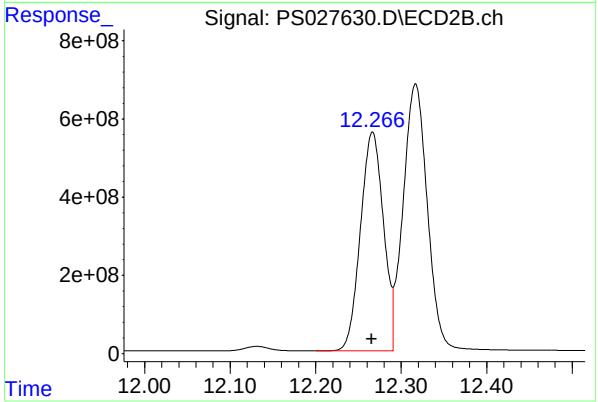
#15 Picloram

R.T.: 12.317 min
Delta R.T.: 0.000 min
Response: 13497207913
Conc: 732.02 ng/ml



#16 DCPA

R.T.: 11.431 min
Delta R.T.: -0.006 min
Response: 13448966855
Conc: 728.09 ng/ml



#16 DCPA

R.T.: 12.267 min
Delta R.T.: 0.001 min
Response: 10451264416
Conc: 727.66 ng/ml

Alliance TECHNICAL GROUP
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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Continuing Calib Date: 09/13/2024 **Initial Calibration Date(s):** 09/12/2024 09/12/2024

Continuing Calib Time: 00:11 **Initial Calibration Time(s):** 21:24 22:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.29	7.29	7.19	7.39	0.00
MCPP	7.47	7.47	7.37	7.57	0.00
2,4-DCAA	7.11	7.11	7.01	7.21	0.00
Dalapon	2.55	2.55	2.45	2.65	0.00
MCPA	7.62	7.62	7.52	7.72	0.01
DICHLORPROP	7.98	7.98	7.88	8.08	0.00
2,4-D	8.20	8.20	8.10	8.30	0.00
2,4,5-TP(Silvex)	9.06	9.06	8.96	9.16	0.00
2,4,5-T	9.34	9.34	9.24	9.44	0.00
2,4-DB	9.90	9.91	9.81	10.01	0.01
Dinoseb	11.08	11.08	10.98	11.18	0.00
Pentachlorophenol	8.49	8.49	8.39	8.59	0.00
4-Nitrophenol	6.91	6.91	6.81	7.01	0.00
PICLORAM	10.90	10.90	10.80	11.00	0.00
DCPA	11.38	11.38	11.28	11.48	0.00
3,5-DICHLOROBENZ	6.30	6.30	6.20	6.40	0.00

Alliance TECHNICAL GROUP
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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Continuing Calib Date: 09/13/2024 **Initial Calibration Date(s):** 09/12/2024 09/12/2024

Continuing Calib Time: 00:11 **Initial Calibration Time(s):** 21:24 22:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.83	7.83	7.73	7.93	0.00
MCPP	7.93	7.93	7.83	8.03	0.00
2,4-DCAA	7.63	7.63	7.53	7.73	0.00
Dalapon	2.63	2.62	2.52	2.72	-0.01
MCPA	8.17	8.17	8.07	8.27	0.00
DICHLORPROP	8.54	8.54	8.44	8.64	0.01
2,4-D	8.86	8.86	8.76	8.96	0.00
2,4,5-TP(Silvex)	9.76	9.76	9.66	9.86	0.00
2,4,5-T	10.17	10.17	10.07	10.27	0.00
2,4-DB	10.73	10.73	10.63	10.83	0.00
Dinoseb	11.11	11.11	11.01	11.21	0.00
Pentachlorophenol	9.38	9.38	9.28	9.48	0.00
4-Nitrophenol	7.17	7.17	7.07	7.27	0.00
PICLORAM	12.19	12.19	12.09	12.29	0.00
DCPA	12.15	12.15	12.05	12.25	0.00
3,5-DICHLOROBENZ	6.60	6.60	6.50	6.70	0.00

Alliance TECHNICAL GROUP

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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/12/2024 09/12/2024

Client Sample No.: CCAL03 **Date Analyzed:** 09/13/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS027660.D **Time Analyzed:** 00:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.340	9.242	9.442	692.280	712.500	-2.8
2,4,5-TP(Silvex)	9.055	8.956	9.156	694.280	712.500	-2.6
2,4-D	8.201	8.101	8.301	675.970	705.000	-4.1
2,4-DB	9.904	9.805	10.005	692.180	712.500	-2.9
2,4-DCAA	7.111	7.012	7.212	727.710	750.000	-3.0
3,5-DICHLOROBENZOIC ACID	6.301	6.201	6.401	677.750	697.500	-2.8
4-Nitrophenol	6.906	6.807	7.007	648.620	682.500	-5.0
Dalapon	2.554	2.454	2.654	654.130	682.500	-4.2
DCPA	11.383	11.283	11.483	700.770	720.000	-2.7
DICAMBA	7.290	7.191	7.391	687.830	705.000	-2.4
DICHLORPROP	7.977	7.878	8.078	679.880	705.000	-3.6
Dinoseb	11.084	10.984	11.184	669.160	705.000	-5.1
MCPA	7.615	7.516	7.716	68.650	69.750	-1.6
MCPP	7.470	7.371	7.571	70.800	70.500	0.4
Pentachlorophenol	8.487	8.388	8.588	696.560	712.500	-2.2
PICLORAM	10.899	10.801	11.001	702.200	712.500	-1.4

Alliance TECHNICAL GROUP

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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/12/2024 09/12/2024

Client Sample No.: CCAL03 **Date Analyzed:** 09/13/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS027660.D **Time Analyzed:** 00:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.171	10.070	10.270	687.960	712.500	-3.4
2,4,5-TP(Silvex)	9.755	9.655	9.855	698.960	712.500	-1.9
2,4-D	8.861	8.761	8.961	677.080	705.000	-4.0
2,4-DB	10.734	10.633	10.833	687.720	712.500	-3.5
2,4-DCAA	7.633	7.533	7.733	717.510	750.000	-4.3
3,5-DICHLOROBENZOIC ACID	6.604	6.504	6.704	676.690	697.500	-3.0
4-Nitrophenol	7.167	7.068	7.268	662.840	682.500	-2.9
Dalapon	2.630	2.520	2.720	662.460	682.500	-2.9
DCPA	12.146	12.045	12.245	702.370	720.000	-2.4
DICAMBA	7.828	7.728	7.928	710.100	705.000	0.7
DICHLORPROP	8.535	8.435	8.635	693.830	705.000	-1.6
Dinoseb	11.109	11.009	11.209	679.590	705.000	-3.6
MCPA	8.172	8.072	8.272	67.890	69.750	-2.7
MCPP	7.931	7.831	8.031	72.630	70.500	3.0
Pentachlorophenol	9.378	9.278	9.478	712.570	712.500	0.0
PICLORAM	12.192	12.090	12.290	739.620	712.500	3.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027660.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Sep 2024 00:11
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:43:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.111	7.633	1810.3E6	711.1E6	727.713	717.510
		Target Compounds						
1)	T	Dalapon	2.554	2.630	2710.1E6	1081.0E6	654.128	662.456
2)	T	3,5-DICHL...	6.301	6.604	2475.7E6	1090.4E6	677.745	676.692
3)	T	4-Nitroph...	6.906	7.167	1098.2E6	475.1E6	648.621	662.837
5)	T	DICAMBA	7.290	7.828	6950.6E6	3129.0E6	687.830	710.097
6)	T	MCPP	7.470	7.931	488.0E6	238.4E6	70.796	72.627
7)	T	MCPA	7.615	8.172	695.4E6	359.4E6	68.648	67.889
8)	T	DICHLORPROP	7.977	8.535	1802.3E6	775.2E6	679.880	693.829
9)	T	2,4-D	8.201	8.861	2072.0E6	755.0E6	675.968	677.082
10)	T	Pentachlo...	8.487	9.378	25334.6E6	11780.4E6	696.556	712.568
11)	T	2,4,5-TP ...	9.055	9.755	10160.7E6	4190.9E6	694.276	698.964
12)	T	2,4,5-T	9.340	10.171	10361.9E6	3595.8E6	692.280	687.956
13)	T	2,4-DB	9.904	10.734	1607.4E6	423.2E6	692.184	687.718
14)	T	DINOSEB	11.084	11.109	6544.9E6	2858.1E6	669.158	679.590
15)	T	Picloram	10.899	12.192	13136.6E6	3437.3E6	702.200	739.619
16)	T	DCPA	11.383	12.146	11631.0E6	4526.9E6	700.773	702.372

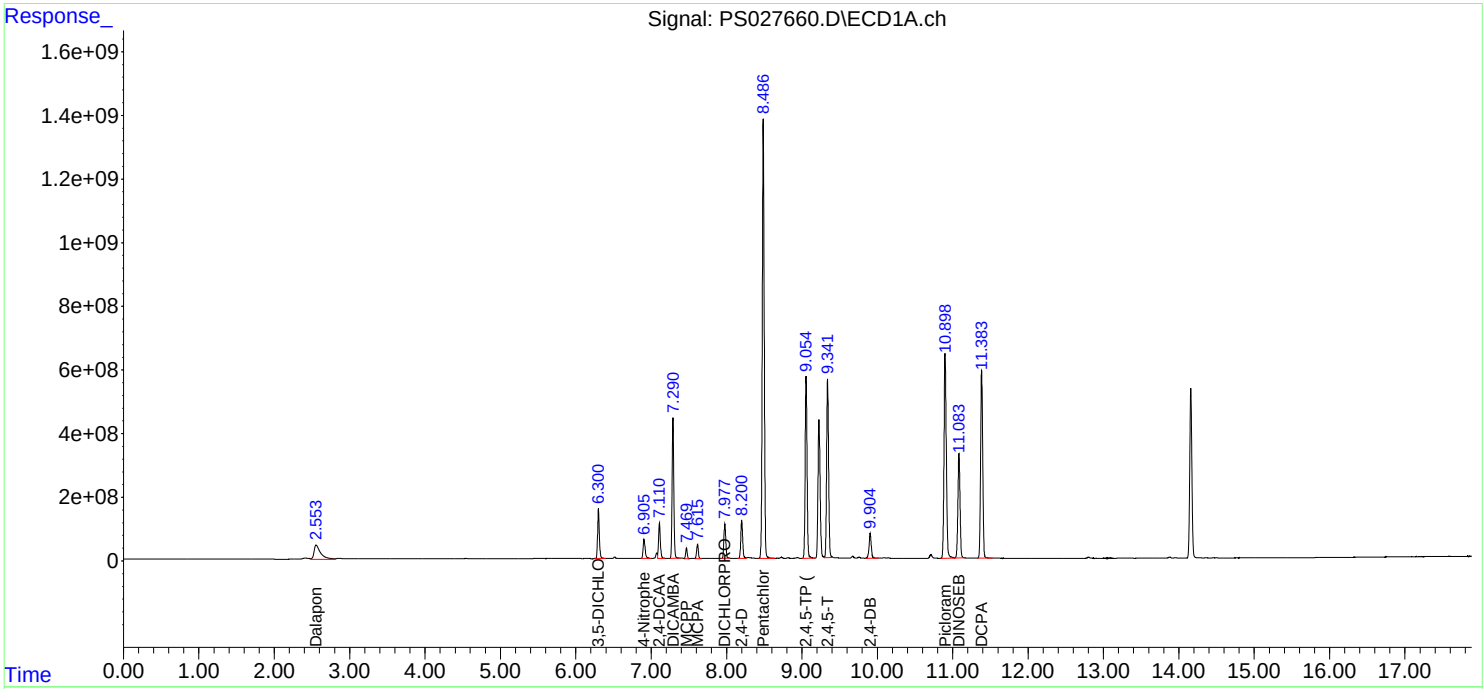
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

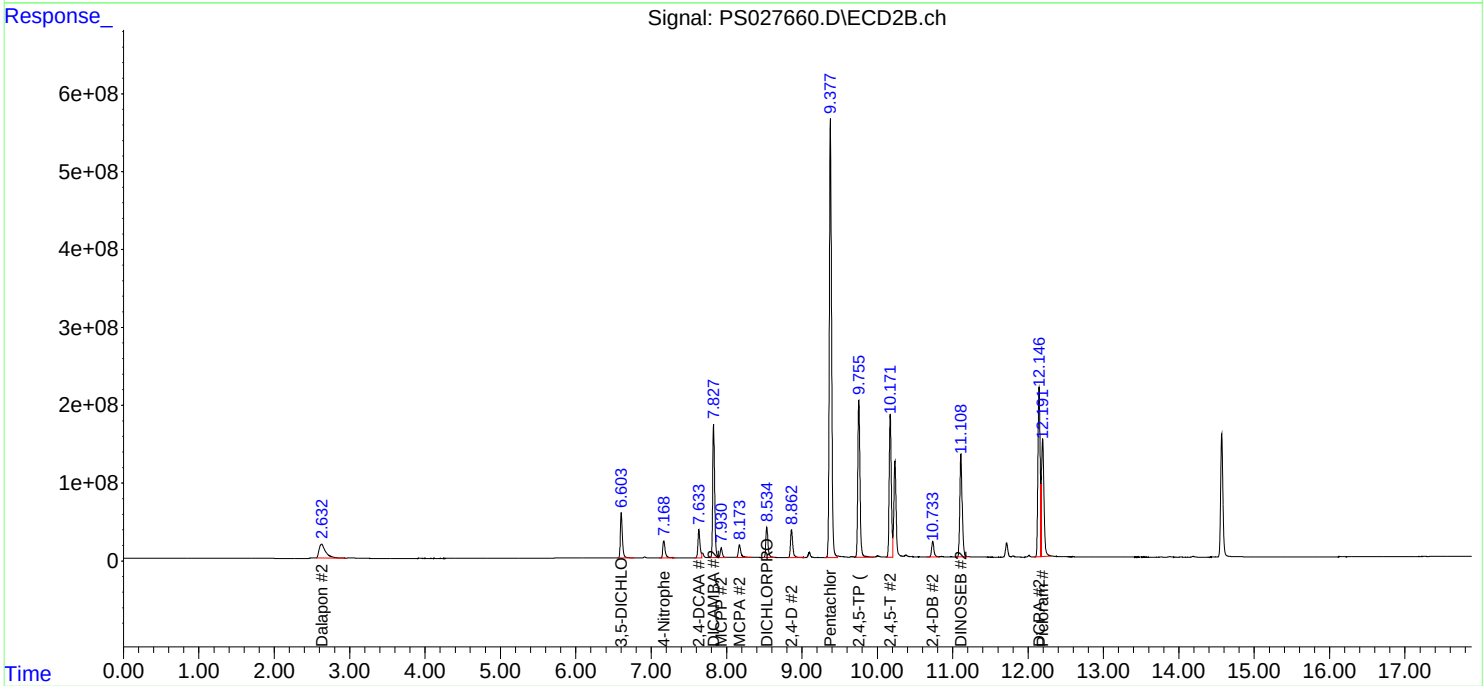
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027660.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Sep 2024 00:11
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

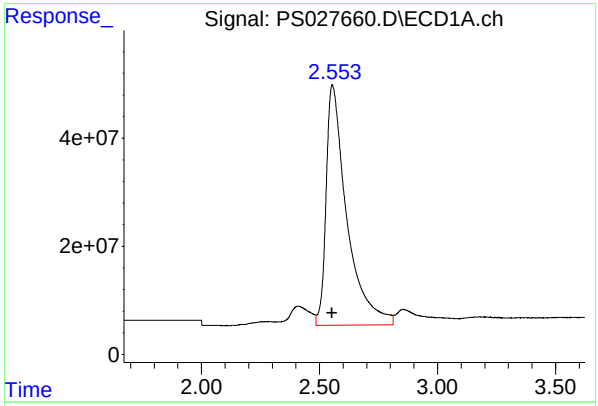
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:43:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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



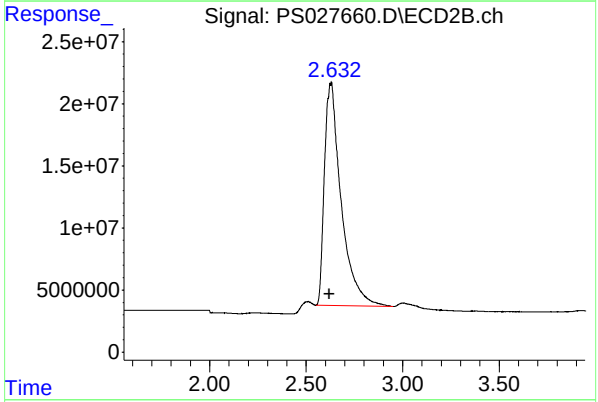




#1 Dalapon

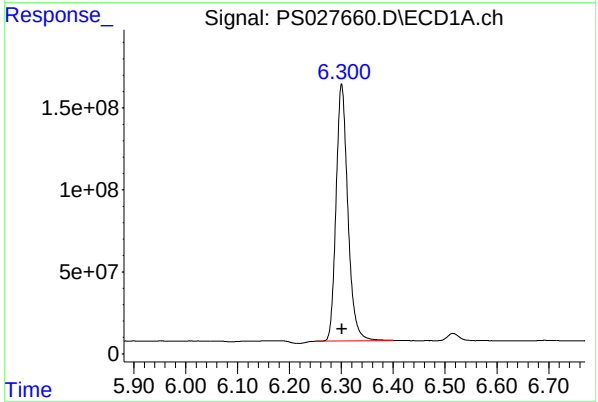
R.T.: 2.554 min
Delta R.T.: 0.000 min
Response: 2710106196
Conc: 654.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



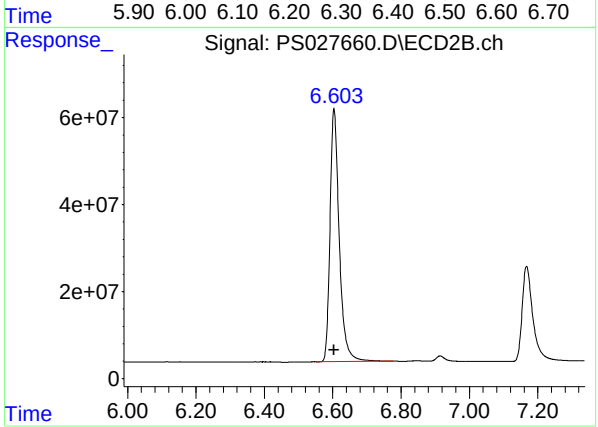
#1 Dalapon

R.T.: 2.630 min
Delta R.T.: 0.010 min
Response: 1081035060
Conc: 662.46 ng/ml



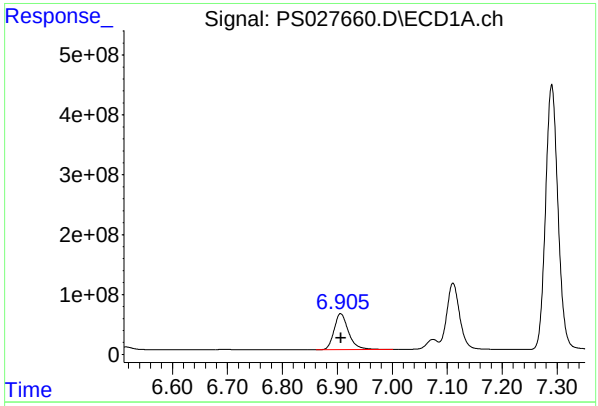
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 2475709822
Conc: 677.75 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

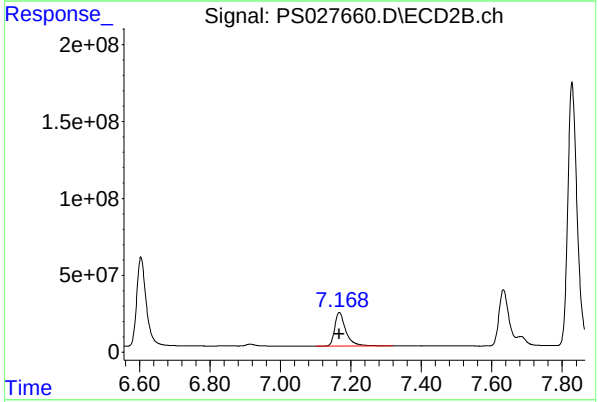
R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 1090440250
Conc: 676.69 ng/ml



#3 4-Nitrophenol

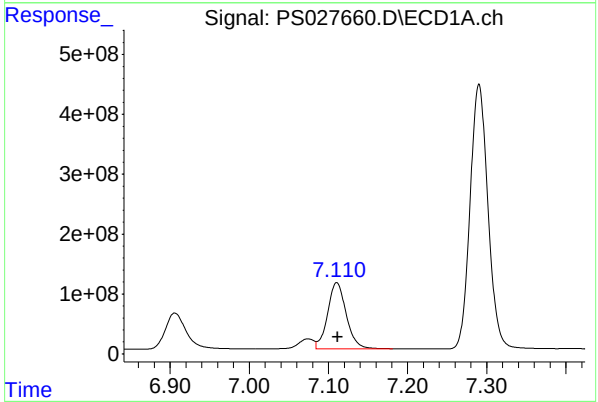
R.T.: 6.906 min
Delta R.T.: 0.000 min
Response: 1098194928
Conc: 648.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



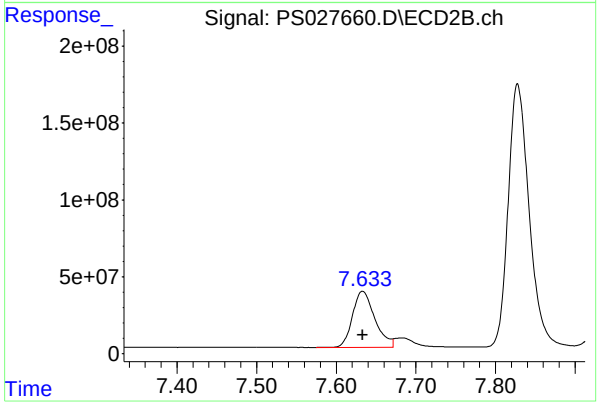
#3 4-Nitrophenol

R.T.: 7.167 min
Delta R.T.: 0.000 min
Response: 475115388
Conc: 662.84 ng/ml



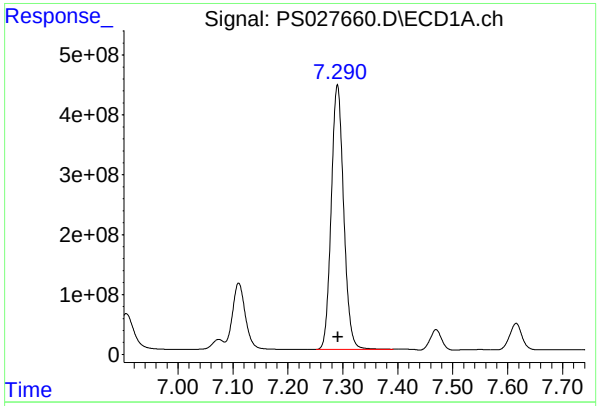
#4 2,4-DCAA

R.T.: 7.111 min
Delta R.T.: 0.000 min
Response: 1810263411
Conc: 727.71 ng/ml



#4 2,4-DCAA

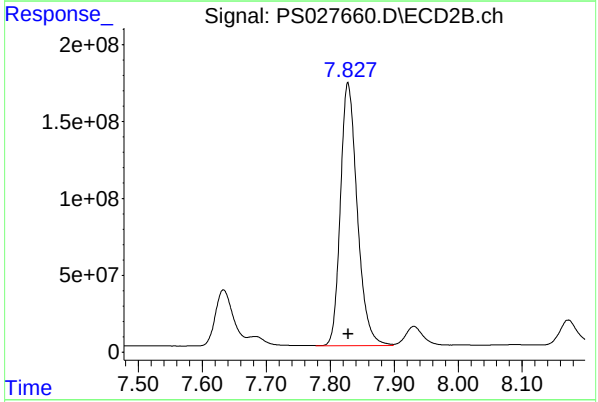
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 711076053
Conc: 717.51 ng/ml



#5 DICAMBA

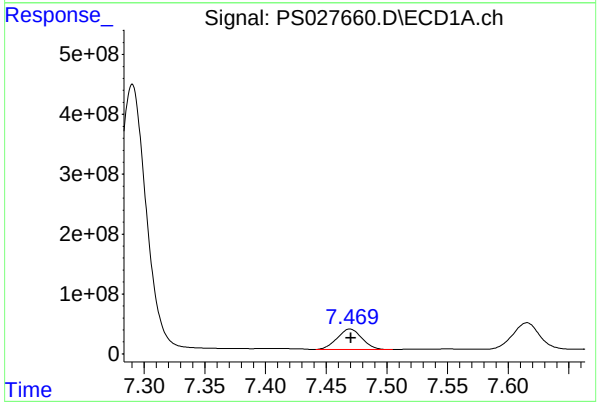
R.T.: 7.290 min
Delta R.T.: 0.000 min
Response: 6950633372
Conc: 687.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



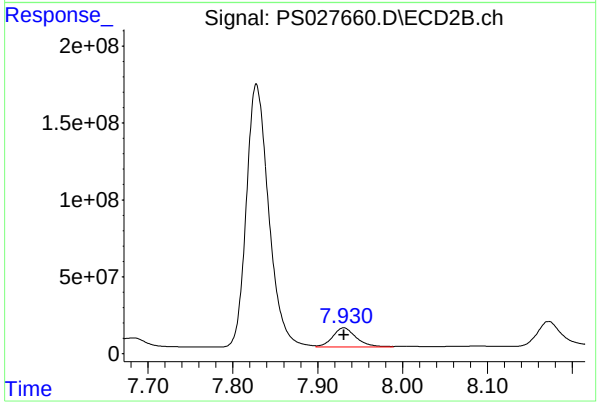
#5 DICAMBA

R.T.: 7.828 min
Delta R.T.: 0.000 min
Response: 3128952184
Conc: 710.10 ng/ml



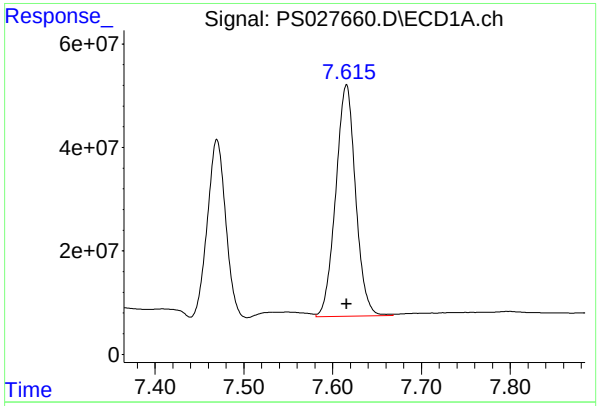
#6 MCPP

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 488042792
Conc: 70.80 ug/ml



#6 MCPP

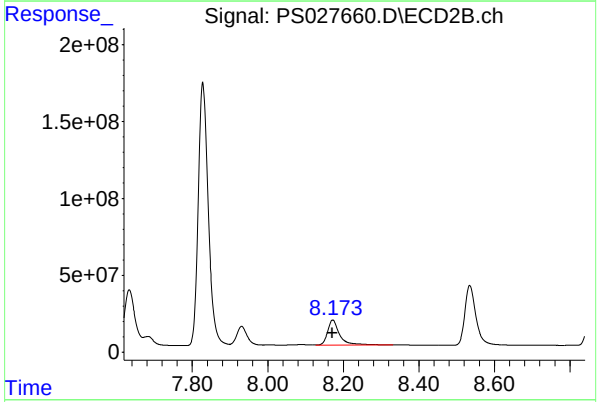
R.T.: 7.931 min
Delta R.T.: 0.000 min
Response: 238396324
Conc: 72.63 ug/ml



#7 MCPA

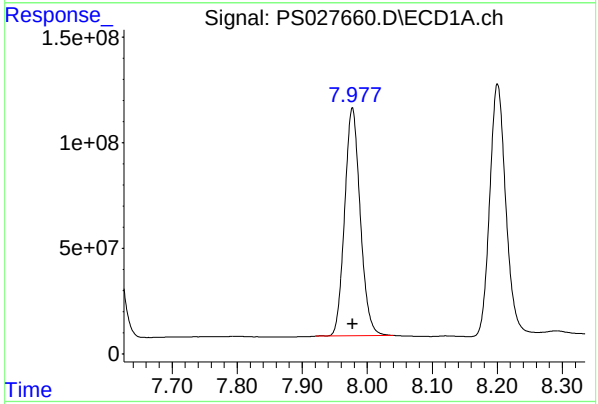
R.T.: 7.615 min
Delta R.T.: 0.000 min
Response: 695403391
Conc: 68.65 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



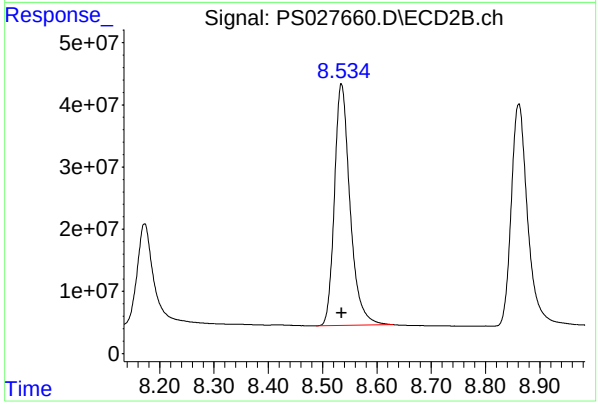
#7 MCPA

R.T.: 8.172 min
Delta R.T.: 0.000 min
Response: 359382767
Conc: 67.89 ug/ml



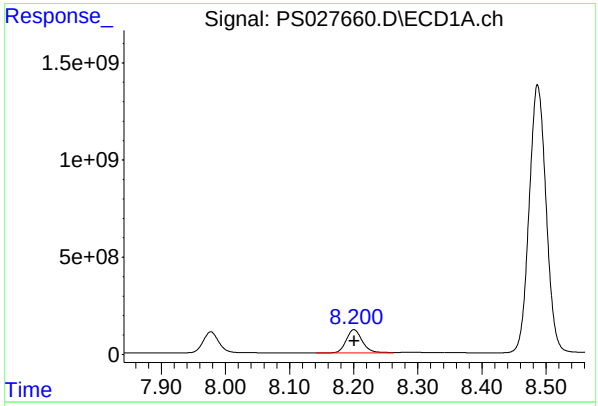
#8 DICHLORPROP

R.T.: 7.977 min
Delta R.T.: 0.000 min
Response: 1802283582
Conc: 679.88 ng/ml



#8 DICHLORPROP

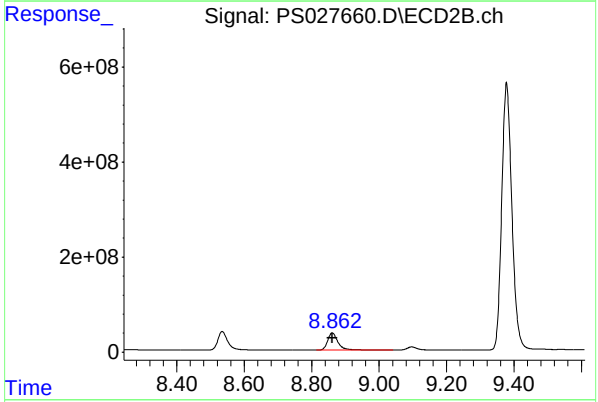
R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 775162538
Conc: 693.83 ng/ml



#9 2,4-D

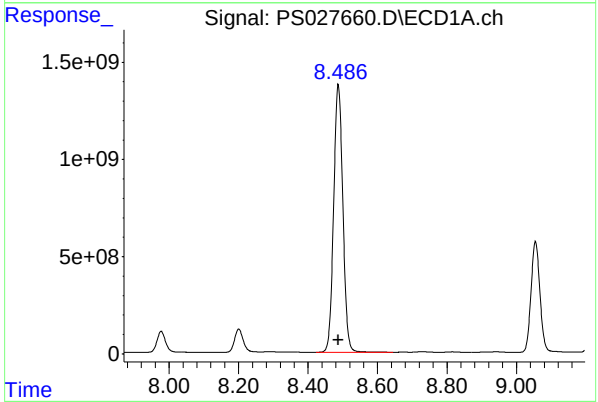
R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 2072001716
Conc: 675.97 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



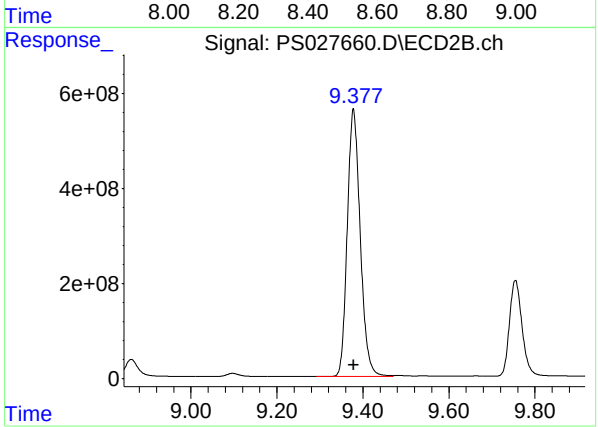
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 754957398
Conc: 677.08 ng/ml



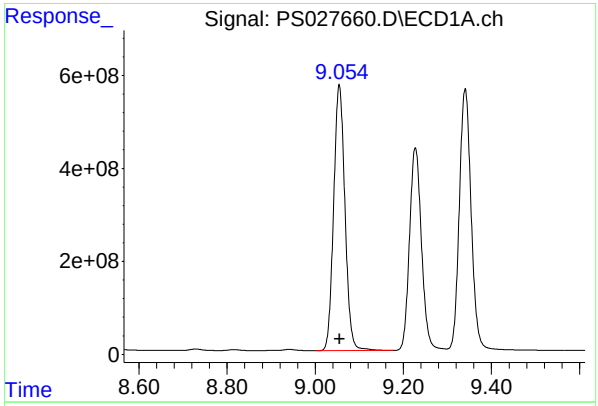
#10 Pentachlorophenol

R.T.: 8.487 min
Delta R.T.: 0.000 min
Response: 25334550508
Conc: 696.56 ng/ml



#10 Pentachlorophenol

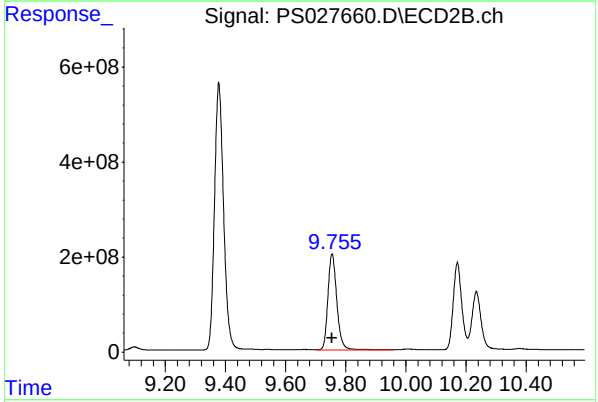
R.T.: 9.378 min
Delta R.T.: 0.000 min
Response: 11780424717
Conc: 712.57 ng/ml



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

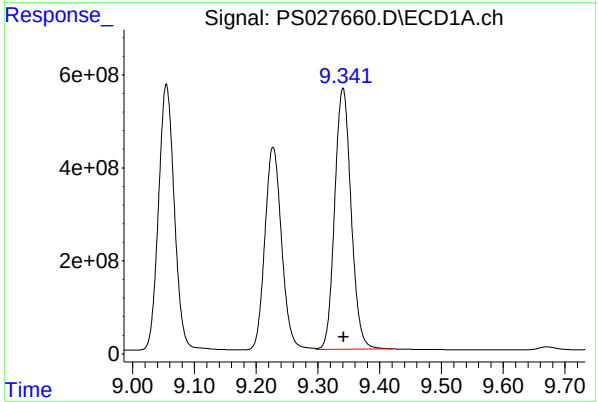
R.T.: 9.055 min
Delta R.T.: -0.001 min
Response: 10160740770
Conc: 694.28 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



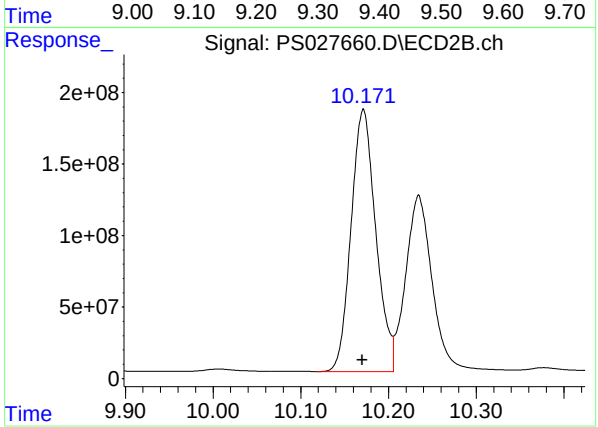
#11 2,4,5-TP (SILVEX)

R.T.: 9.755 min
Delta R.T.: 0.000 min
Response: 4190915915
Conc: 698.96 ng/ml



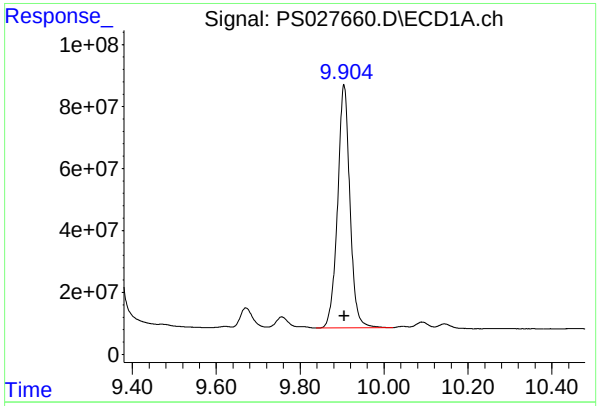
#12 2,4,5-T

R.T.: 9.340 min
Delta R.T.: -0.001 min
Response: 10361931808
Conc: 692.28 ng/ml



#12 2,4,5-T

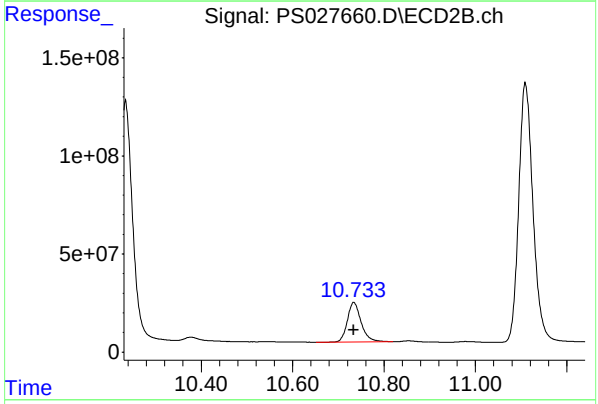
R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 3595819948
Conc: 687.96 ng/ml



#13 2,4-DB

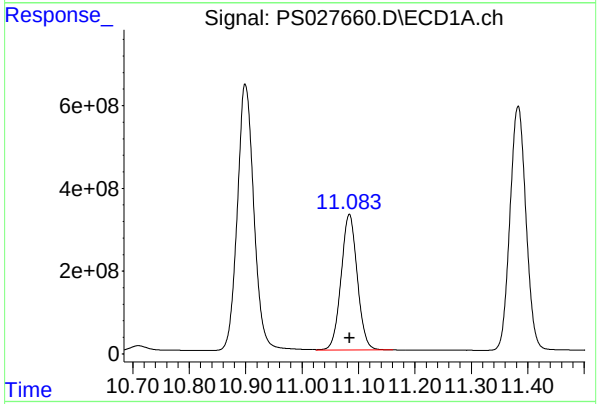
R.T.: 9.904 min
Delta R.T.: 0.000 min
Response: 1607402412
Conc: 692.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



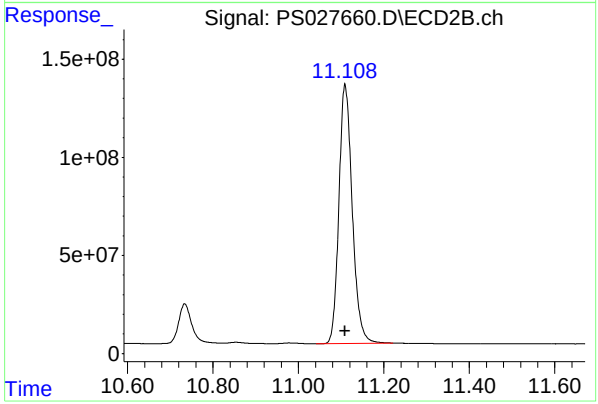
#13 2,4-DB

R.T.: 10.734 min
Delta R.T.: 0.000 min
Response: 423154467
Conc: 687.72 ng/ml



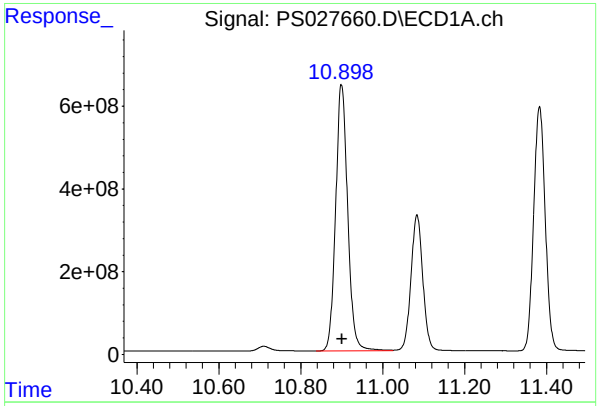
#14 DINOSEB

R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 6544943506
Conc: 669.16 ng/ml



#14 DINOSEB

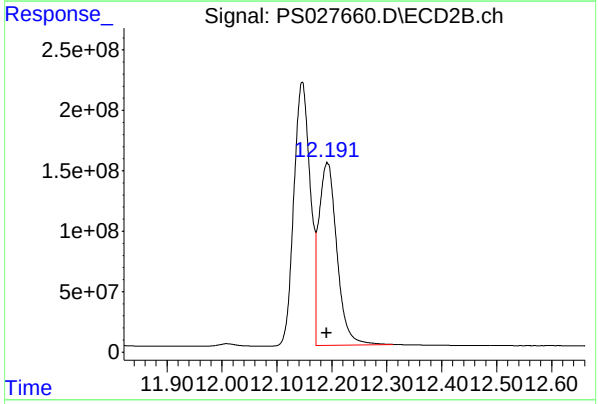
R.T.: 11.109 min
Delta R.T.: 0.000 min
Response: 2858074942
Conc: 679.59 ng/ml



#15 Picloram

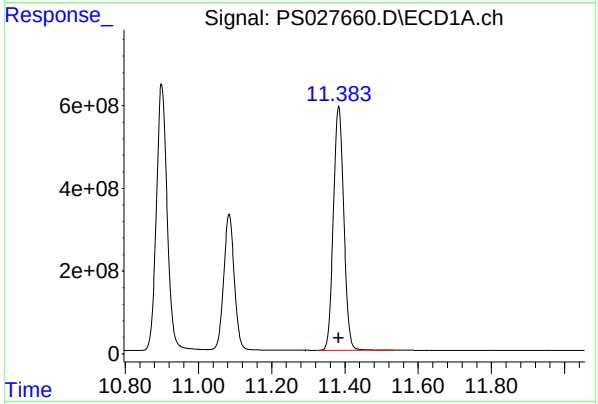
R.T.: 10.899 min
Delta R.T.: -0.001 min
Response: 13136558979
Conc: 702.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



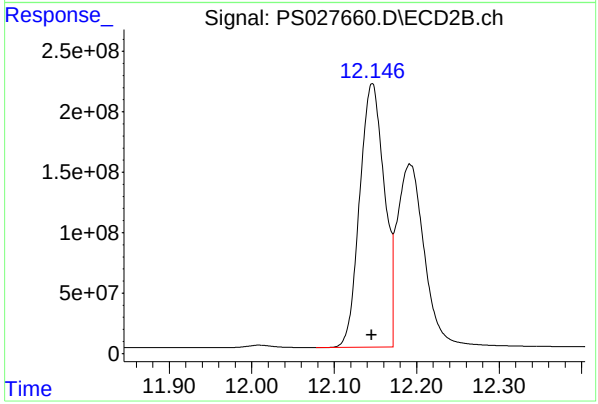
#15 Picloram

R.T.: 12.192 min
Delta R.T.: 0.001 min
Response: 3437258714
Conc: 739.62 ng/ml



#16 DCPA

R.T.: 11.383 min
Delta R.T.: 0.000 min
Response: 11630981819
Conc: 700.77 ng/ml



#16 DCPA

R.T.: 12.146 min
Delta R.T.: 0.000 min
Response: 4526868520
Conc: 702.37 ng/ml

Alliance TECHNICAL GROUP
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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Continuing Calib Date: 09/13/2024 **Initial Calibration Date(s):** 09/12/2024 09/12/2024

Continuing Calib Time: 01:22 **Initial Calibration Time(s):** 21:24 22:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.29	7.29	7.19	7.39	0.00
MCPP	7.47	7.47	7.37	7.57	0.00
2,4-DCAA	7.11	7.11	7.01	7.21	0.00
Dalapon	2.56	2.55	2.45	2.65	-0.01
MCPA	7.62	7.62	7.52	7.72	0.01
DICHLORPROP	7.98	7.98	7.88	8.08	0.00
2,4-D	8.20	8.20	8.10	8.30	0.00
2,4,5-TP(Silvex)	9.06	9.06	8.96	9.16	0.00
2,4,5-T	9.34	9.34	9.24	9.44	0.00
2,4-DB	9.91	9.91	9.81	10.01	0.01
Dinoseb	11.08	11.08	10.98	11.18	0.00
Pentachlorophenol	8.49	8.49	8.39	8.59	0.00
4-Nitrophenol	6.91	6.91	6.81	7.01	0.00
PICLORAM	10.90	10.90	10.80	11.00	0.00
DCPA	11.38	11.38	11.28	11.48	0.00
3,5-DICHLOROBENZ	6.30	6.30	6.20	6.40	0.00

Alliance TECHNICAL GROUP
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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Continuing Calib Date: 09/13/2024 **Initial Calibration Date(s):** 09/12/2024 09/12/2024

Continuing Calib Time: 01:22 **Initial Calibration Time(s):** 21:24 22:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.83	7.83	7.73	7.93	0.00
MCPP	7.93	7.93	7.83	8.03	0.00
2,4-DCAA	7.63	7.63	7.53	7.73	0.00
Dalapon	2.62	2.62	2.52	2.72	0.00
MCPA	8.17	8.17	8.07	8.27	0.00
DICHLORPROP	8.54	8.54	8.44	8.64	0.01
2,4-D	8.86	8.86	8.76	8.96	0.00
2,4,5-TP(Silvex)	9.76	9.76	9.66	9.86	0.00
2,4,5-T	10.17	10.17	10.07	10.27	0.00
2,4-DB	10.73	10.73	10.63	10.83	0.00
Dinoseb	11.11	11.11	11.01	11.21	0.00
Pentachlorophenol	9.38	9.38	9.28	9.48	0.00
4-Nitrophenol	7.17	7.17	7.07	7.27	0.00
PICLORAM	12.19	12.19	12.09	12.29	0.00
DCPA	12.15	12.15	12.05	12.25	0.00
3,5-DICHLOROBENZ	6.60	6.60	6.50	6.70	0.00

Alliance TECHNICAL GROUP

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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/12/2024 09/12/2024

Client Sample No.: CCAL04 **Date Analyzed:** 09/13/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS027663.D **Time Analyzed:** 01:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.341	9.242	9.442	695.170	712.500	-2.4
2,4,5-TP(Silvex)	9.055	8.956	9.156	699.350	712.500	-1.8
2,4-D	8.200	8.101	8.301	683.300	705.000	-3.1
2,4-DB	9.905	9.805	10.005	689.670	712.500	-3.2
2,4-DCAA	7.111	7.012	7.212	723.810	750.000	-3.5
3,5-DICHLOROBENZOIC ACID	6.301	6.201	6.401	678.090	697.500	-2.8
4-Nitrophenol	6.907	6.807	7.007	657.370	682.500	-3.7
Dalapon	2.555	2.454	2.654	654.640	682.500	-4.1
DCPA	11.383	11.283	11.483	707.130	720.000	-1.8
DICAMBA	7.290	7.191	7.391	696.100	705.000	-1.3
DICHLORPROP	7.977	7.878	8.078	679.770	705.000	-3.6
Dinoseb	11.084	10.984	11.184	682.550	705.000	-3.2
MCPA	7.615	7.516	7.716	69.060	69.750	-1.0
MCPP	7.470	7.371	7.571	70.760	70.500	0.4
Pentachlorophenol	8.487	8.388	8.588	695.790	712.500	-2.3
PICLORAM	10.900	10.801	11.001	694.130	712.500	-2.6

Alliance TECHNICAL GROUP

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.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/12/2024 09/12/2024

Client Sample No.: CCAL04 **Date Analyzed:** 09/13/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS027663.D **Time Analyzed:** 01:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.171	10.070	10.270	691.300	712.500	-3.0
2,4,5-TP(Silvex)	9.755	9.655	9.855	710.450	712.500	-0.3
2,4-D	8.861	8.761	8.961	682.810	705.000	-3.1
2,4-DB	10.733	10.633	10.833	685.310	712.500	-3.8
2,4-DCAA	7.633	7.533	7.733	716.890	750.000	-4.4
3,5-DICHLOROBENZOIC ACID	6.604	6.504	6.704	685.020	697.500	-1.8
4-Nitrophenol	7.168	7.068	7.268	664.200	682.500	-2.7
Dalapon	2.622	2.520	2.720	657.940	682.500	-3.6
DCPA	12.146	12.045	12.245	720.920	720.000	0.1
DICAMBA	7.828	7.728	7.928	693.030	705.000	-1.7
DICHLORPROP	8.535	8.435	8.635	683.920	705.000	-3.0
Dinoseb	11.110	11.009	11.209	689.480	705.000	-2.2
MCPA	8.172	8.072	8.272	68.170	69.750	-2.3
MCPP	7.931	7.831	8.031	73.380	70.500	4.1
Pentachlorophenol	9.378	9.278	9.478	722.600	712.500	1.4
PICLORAM	12.192	12.090	12.290	724.940	712.500	1.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027663.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Sep 2024 01:22
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:44:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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	7.111	7.633	1800.5E6	710.5E6	723.807	716.892
		Target Compounds						
1)	T	Dalapon	2.555	2.622	2712.2E6	1073.7E6	654.640	657.943
2)	T	3,5-DICHL...	6.301	6.604	2477.0E6	1103.9E6	678.092	685.021
3)	T	4-Nitroph...	6.907	7.168	1113.0E6	476.1E6	657.372	664.197
5)	T	DICAMBA	7.290	7.828	7034.2E6	3053.8E6	696.104	693.035
6)	T	MCPP	7.470	7.931	487.8E6	240.9E6	70.761	73.378
7)	T	MCPA	7.615	8.172	699.6E6	360.9E6	69.063	68.170
8)	T	DICHLORPROP	7.977	8.535	1802.0E6	764.1E6	679.767	683.919
9)	T	2,4-D	8.200	8.861	2094.5E6	761.3E6	683.295	682.810
10)	T	Pentachlo...	8.487	9.378	25306.6E6	11946.3E6	695.787	722.599
11)	T	2,4,5-TP ...	9.055	9.755	10235.1E6	4259.8E6	699.354	710.446
12)	T	2,4,5-T	9.341	10.171	10405.2E6	3613.3E6	695.168	691.301
13)	T	2,4-DB	9.905	10.733	1601.6E6	421.7E6	689.667	685.309
14)	T	DINOSEB	11.084	11.110	6676.0E6	2899.7E6	682.552	689.484
15)	T	Picloram	10.900	12.192	12985.6E6	3369.0E6	694.128	724.938
16)	T	DCPA	11.383	12.146	11736.5E6	4646.4E6	707.130	720.920

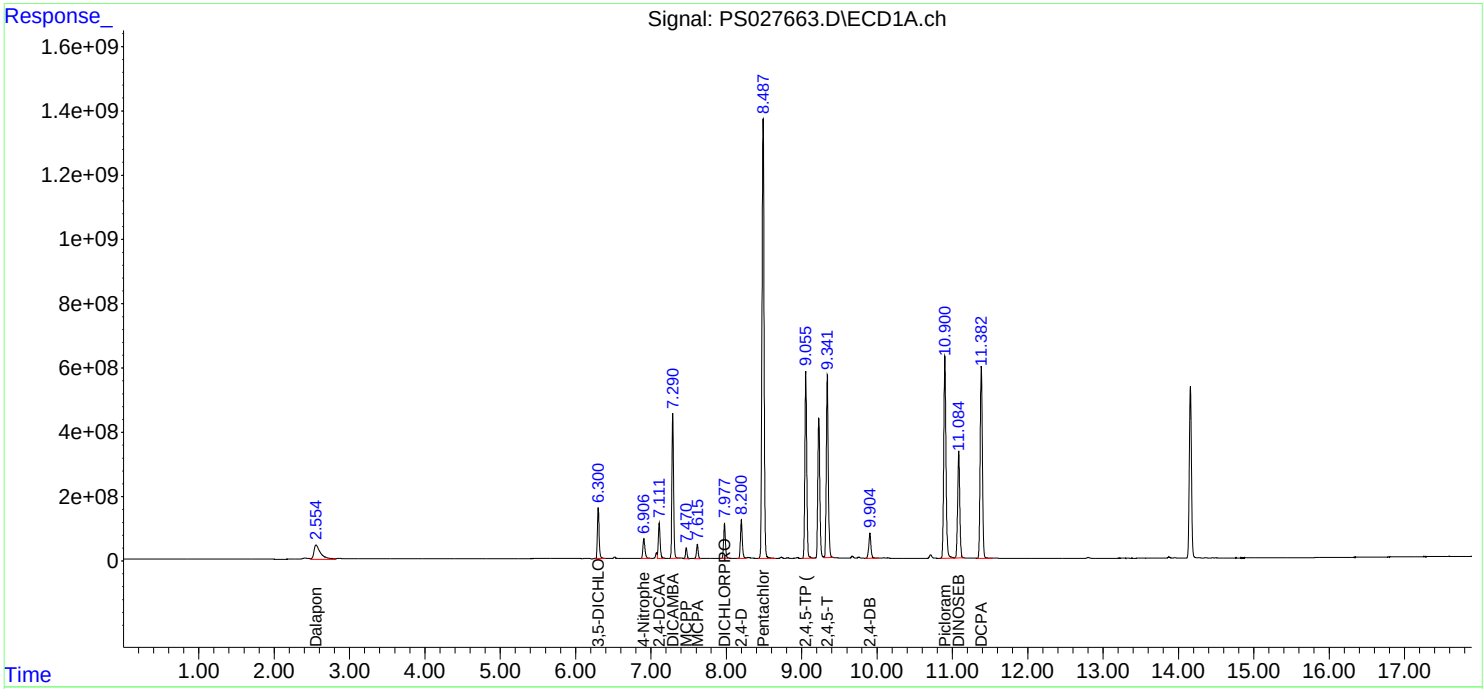
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

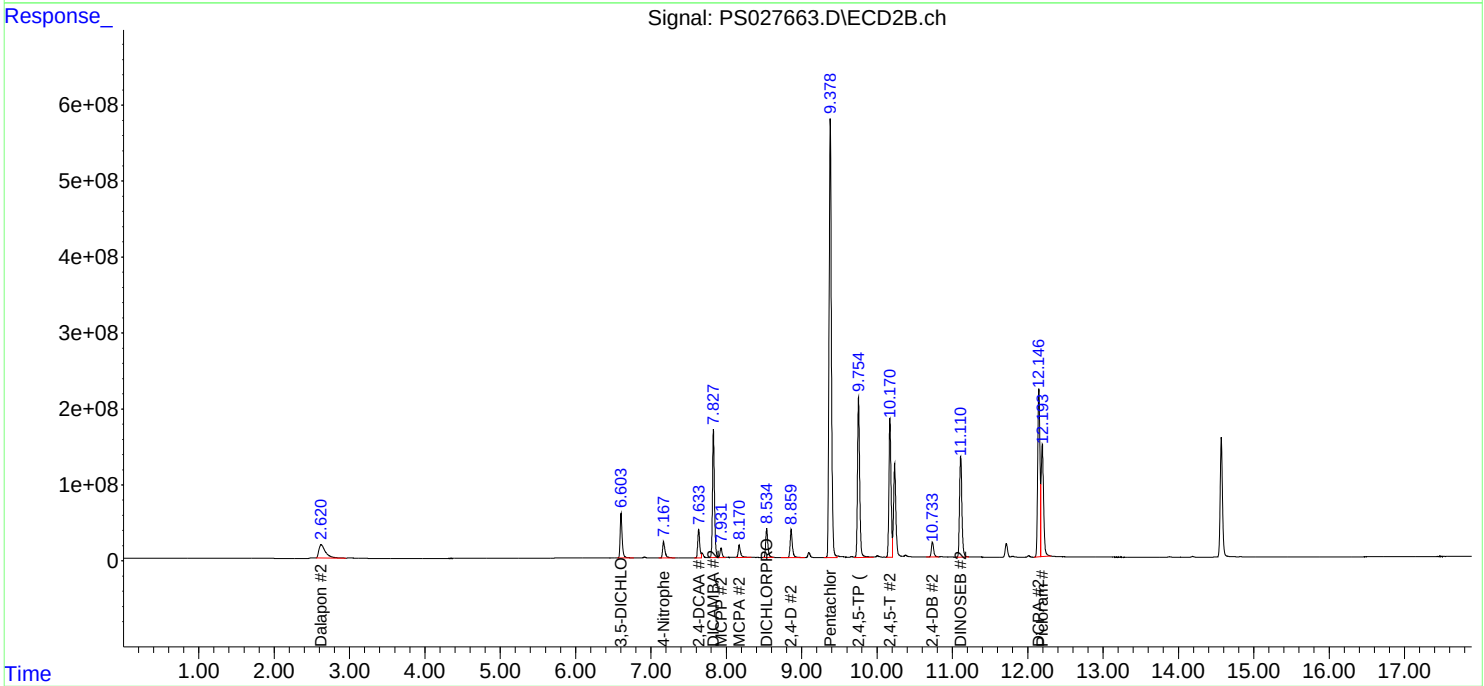
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027663.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Sep 2024 01:22
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

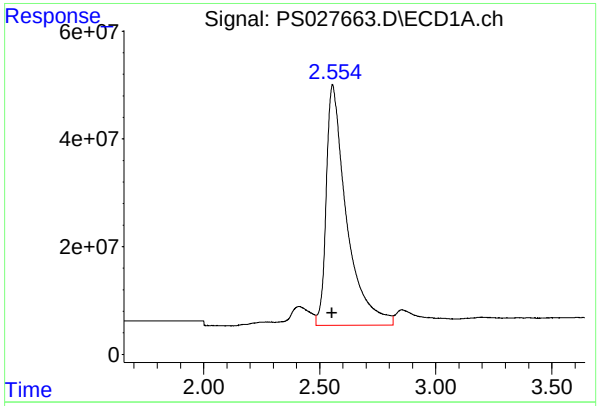
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:44:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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



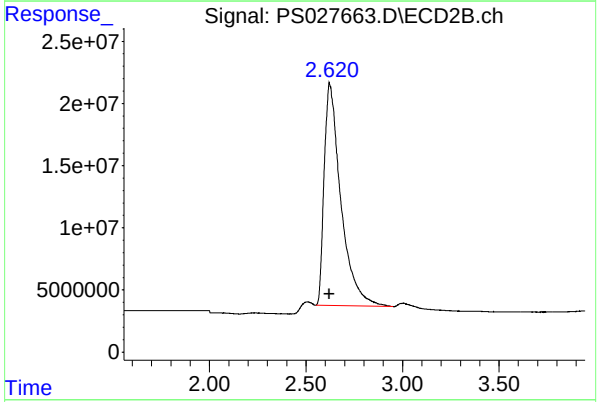




#1 Dalapon

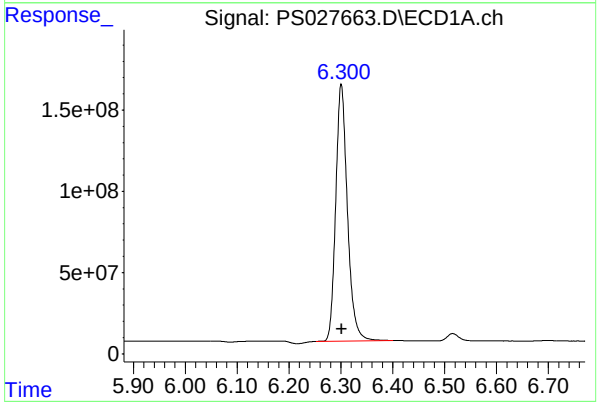
R.T.: 2.555 min
Delta R.T.: 0.001 min
Response: 2712228564
Conc: 654.64 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



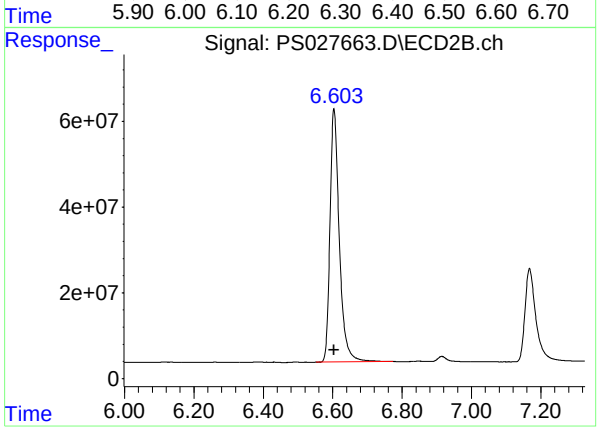
#1 Dalapon

R.T.: 2.622 min
Delta R.T.: 0.002 min
Response: 1073671376
Conc: 657.94 ng/ml



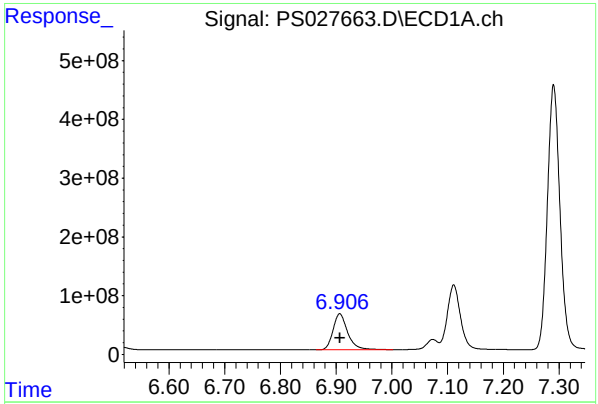
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 2476976616
Conc: 678.09 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

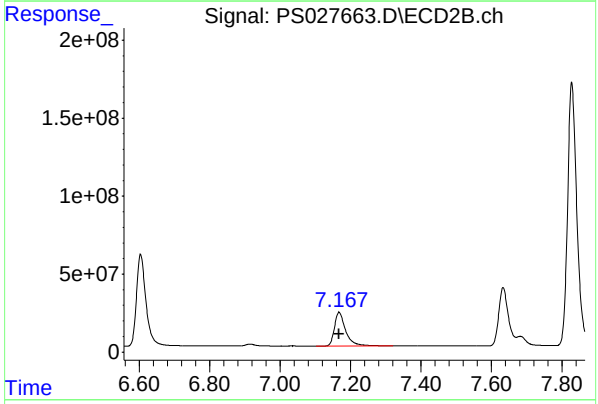
R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 1103861095
Conc: 685.02 ng/ml



#3 4-Nitrophenol

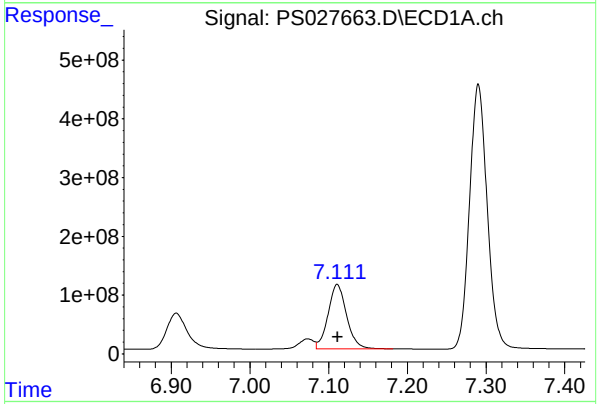
R.T.: 6.907 min
Delta R.T.: 0.000 min
Response: 1113012678
Conc: 657.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



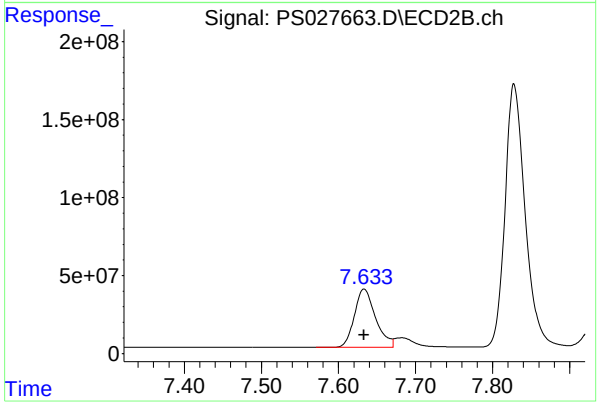
#3 4-Nitrophenol

R.T.: 7.168 min
Delta R.T.: 0.000 min
Response: 476090532
Conc: 664.20 ng/ml



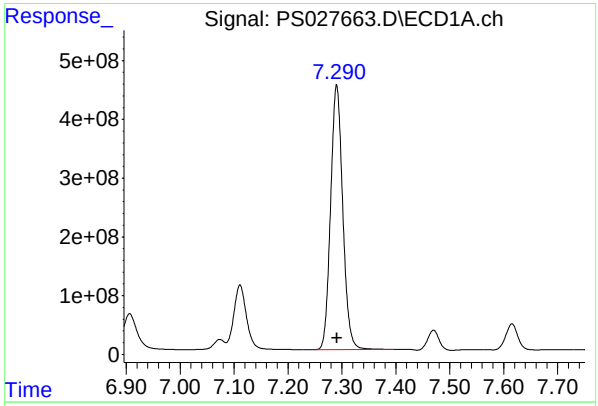
#4 2,4-DCAA

R.T.: 7.111 min
Delta R.T.: 0.000 min
Response: 1800546738
Conc: 723.81 ng/ml



#4 2,4-DCAA

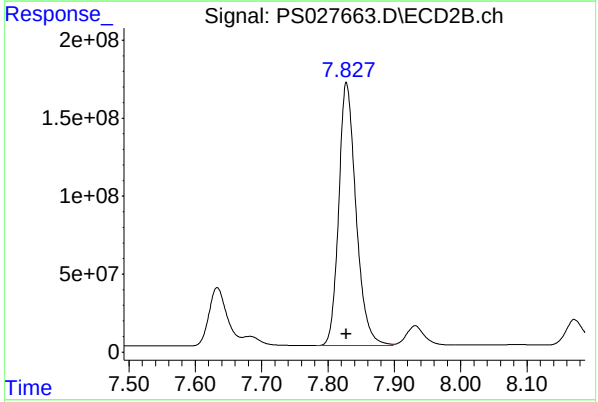
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 710464325
Conc: 716.89 ng/ml



#5 DICAMBA

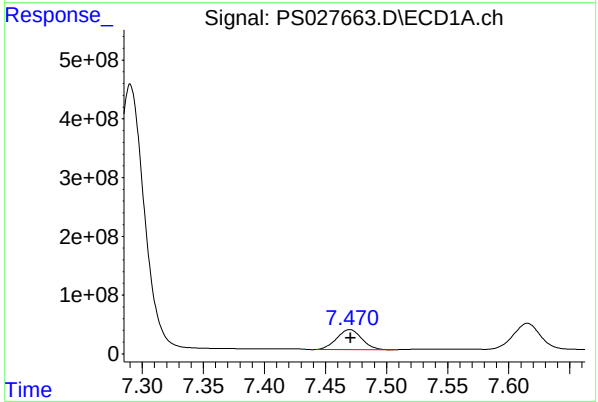
R.T.: 7.290 min
Delta R.T.: 0.000 min
Response: 7034234410
Conc: 696.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



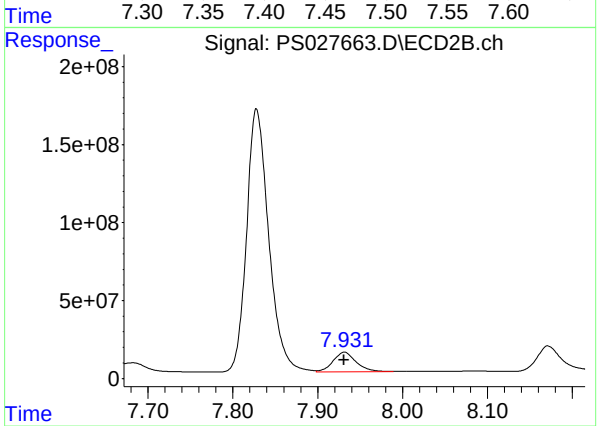
#5 DICAMBA

R.T.: 7.828 min
Delta R.T.: 0.000 min
Response: 3053772489
Conc: 693.03 ng/ml



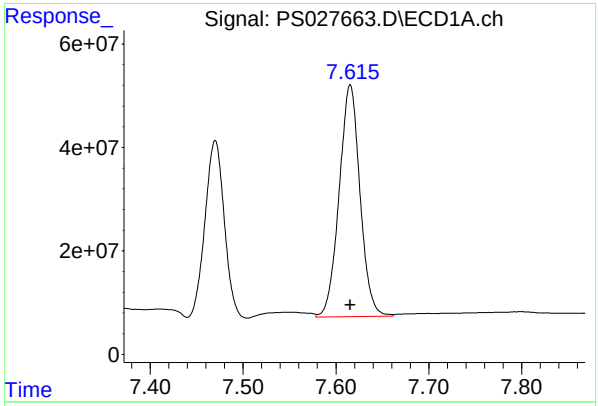
#6 MCPP

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 487798331
Conc: 70.76 ug/ml



#6 MCPP

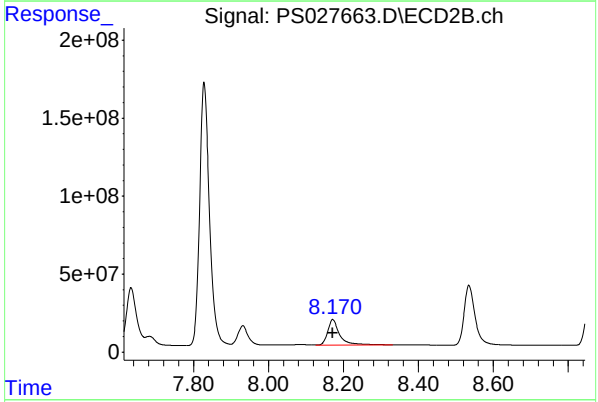
R.T.: 7.931 min
Delta R.T.: 0.000 min
Response: 240860033
Conc: 73.38 ug/ml



#7 MCPA

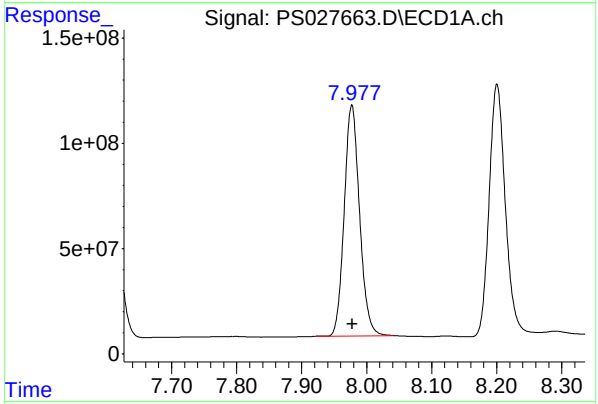
R.T.: 7.615 min
Delta R.T.: 0.000 min
Response: 699602060
Conc: 69.06 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



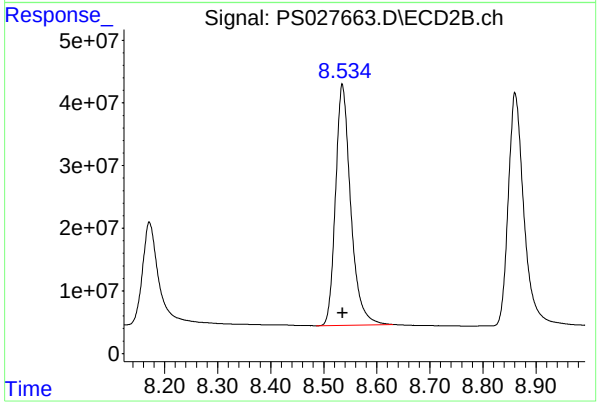
#7 MCPA

R.T.: 8.172 min
Delta R.T.: 0.000 min
Response: 360868470
Conc: 68.17 ug/ml



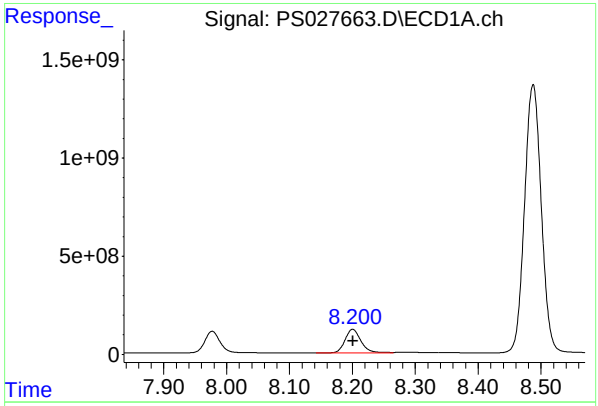
#8 DICHLORPROP

R.T.: 7.977 min
Delta R.T.: 0.000 min
Response: 1801985418
Conc: 679.77 ng/ml



#8 DICHLORPROP

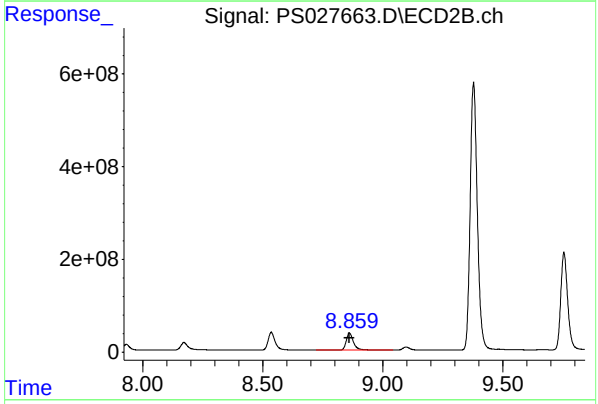
R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 764090681
Conc: 683.92 ng/ml



#9 2,4-D

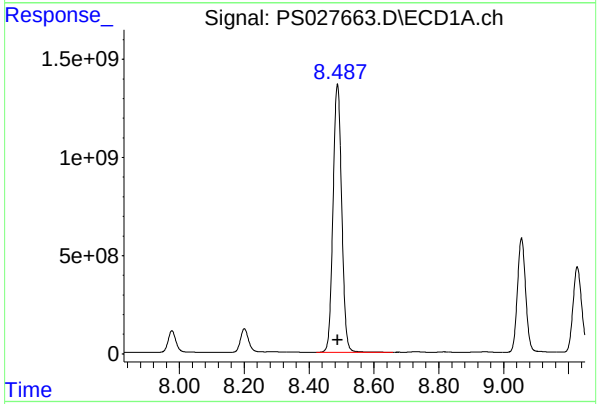
R.T.: 8.200 min
Delta R.T.: 0.000 min
Response: 2094461393
Conc: 683.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



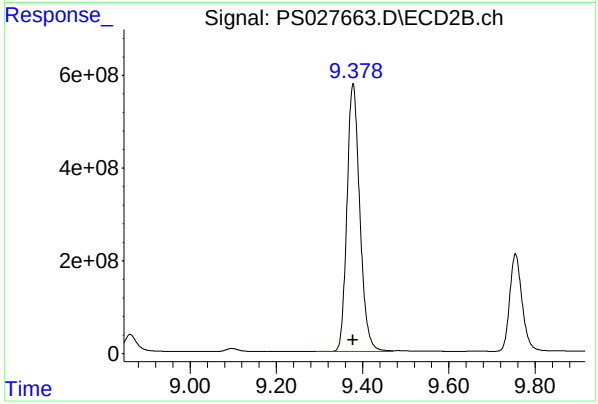
#9 2,4-D

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 761344218
Conc: 682.81 ng/ml



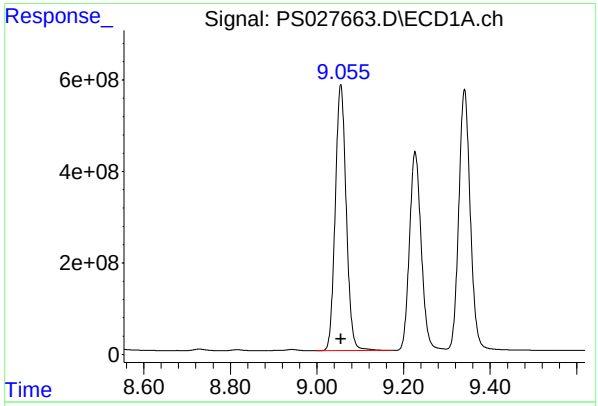
#10 Pentachlorophenol

R.T.: 8.487 min
Delta R.T.: 0.000 min
Response: 25306578762
Conc: 695.79 ng/ml



#10 Pentachlorophenol

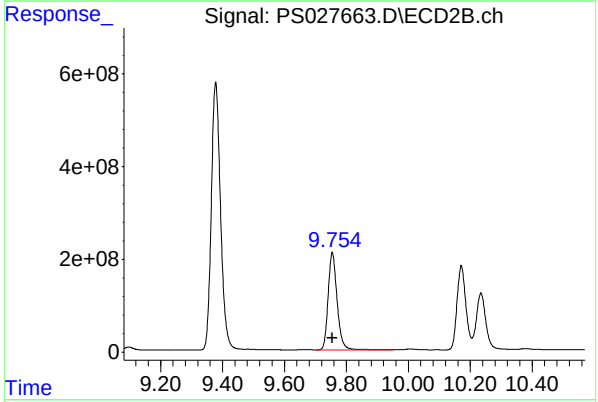
R.T.: 9.378 min
Delta R.T.: 0.000 min
Response: 11946254071
Conc: 722.60 ng/ml



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

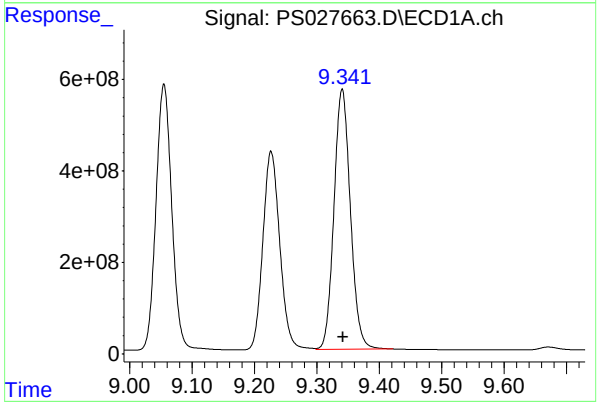
R.T.: 9.055 min
Delta R.T.: 0.000 min
Response: 10235054392
Conc: 699.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



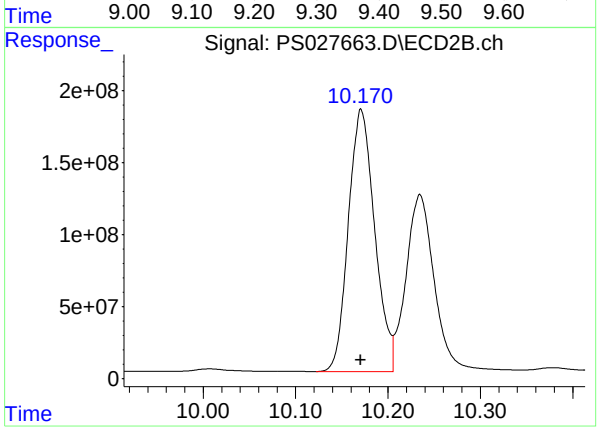
#11 2,4,5-TP (SILVEX)

R.T.: 9.755 min
Delta R.T.: 0.000 min
Response: 4259763633
Conc: 710.45 ng/ml



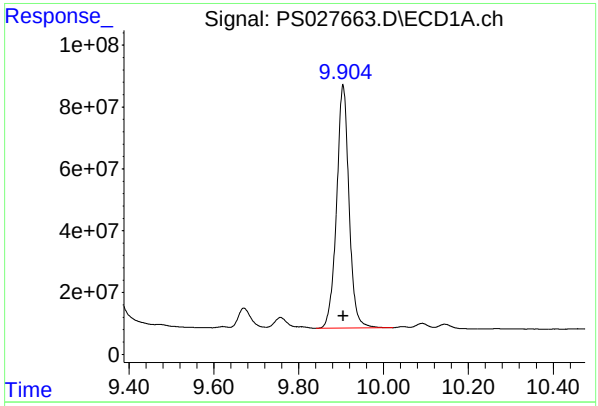
#12 2,4,5-T

R.T.: 9.341 min
Delta R.T.: -0.001 min
Response: 10405161966
Conc: 695.17 ng/ml



#12 2,4,5-T

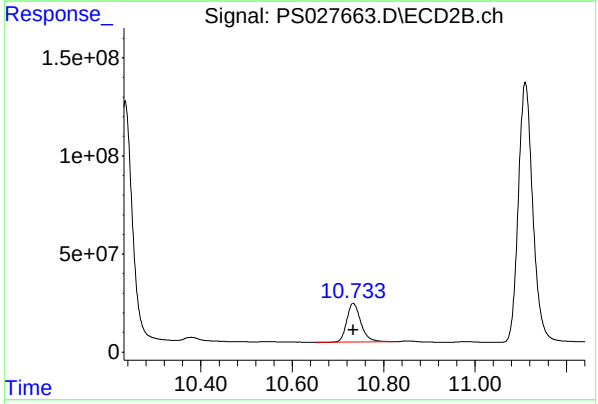
R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 3613306387
Conc: 691.30 ng/ml



#13 2,4-DB

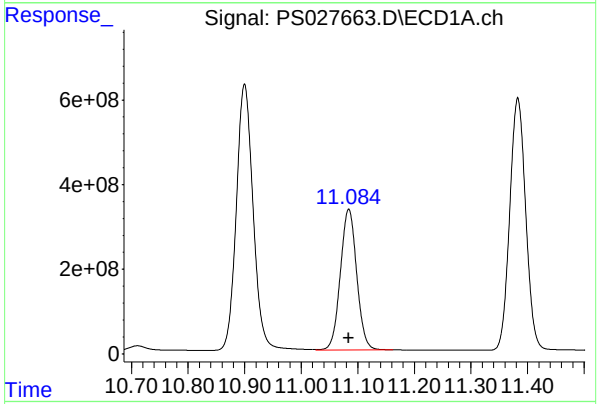
R.T.: 9.905 min
Delta R.T.: 0.000 min
Response: 1601557831
Conc: 689.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



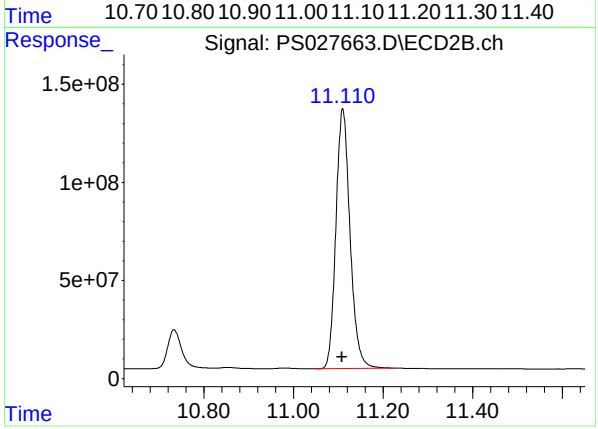
#13 2,4-DB

R.T.: 10.733 min
Delta R.T.: 0.000 min
Response: 421672253
Conc: 685.31 ng/ml



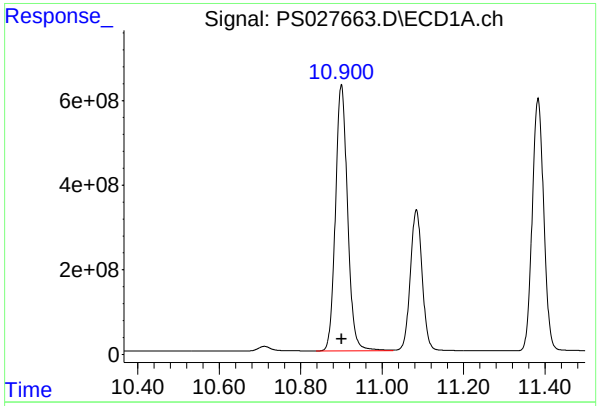
#14 DINOSEB

R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 6675951517
Conc: 682.55 ng/ml



#14 DINOSEB

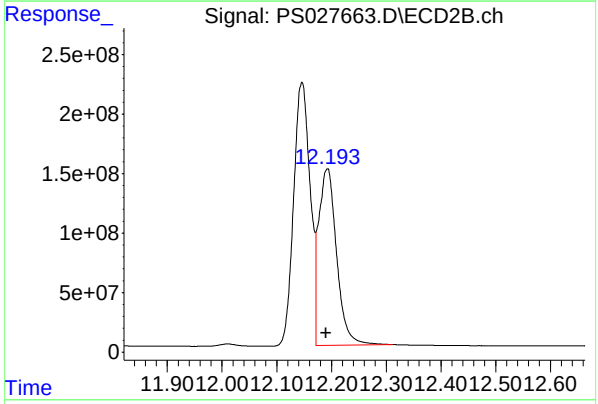
R.T.: 11.110 min
Delta R.T.: 0.001 min
Response: 2899687211
Conc: 689.48 ng/ml



#15 Picloram

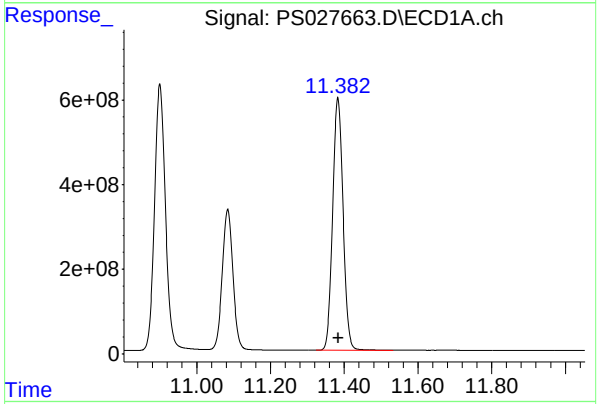
R.T.: 10.900 min
Delta R.T.: 0.000 min
Response: 12985550664
Conc: 694.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



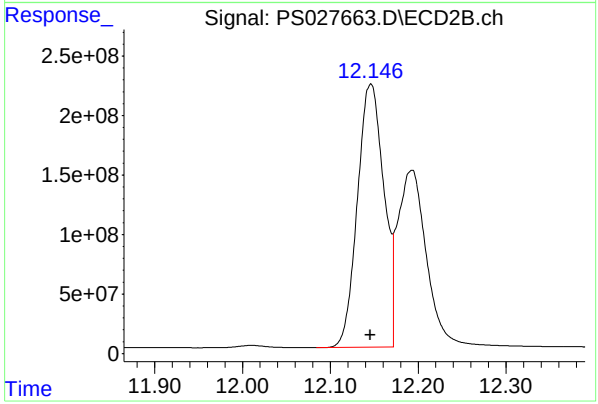
#15 Picloram

R.T.: 12.192 min
Delta R.T.: 0.002 min
Response: 3369031302
Conc: 724.94 ng/ml



#16 DCPA

R.T.: 11.383 min
Delta R.T.: 0.000 min
Response: 11736500751
Conc: 707.13 ng/ml



#16 DCPA

R.T.: 12.146 min
Delta R.T.: 0.000 min
Response: 4646414887
Conc: 720.92 ng/ml

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

Analytical Sequence

Client: Chemtech Consulting Group **SDG No.:** P3845

Project: NJ Waste Water PT **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 09/03/2024 09/03/2024

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 #
I.BLK	I.BLK	09/03/2024	13:02	PS027580.D	7.15	0.00
HSTDICC200	HSTDICC200	09/03/2024	13:26	PS027581.D	7.15	0.00
HSTDICC500	HSTDICC500	09/03/2024	13:51	PS027582.D	7.15	0.00
HSTDICC750	HSTDICC750	09/03/2024	14:14	PS027583.D	7.15	0.00
HSTDICC1000	HSTDICC1000	09/03/2024	14:38	PS027584.D	7.15	0.00
HSTDICC1500	HSTDICC1500	09/03/2024	15:03	PS027585.D	7.15	0.00
I.BLK	I.BLK	09/10/2024	13:54	PS027617.D	7.15	0.00
HSTDCCC750	HSTDCCC750	09/10/2024	14:18	PS027618.D	7.15	0.00
PB163250BL	PB163250BL	09/10/2024	17:34	PS027619.D	7.15	0.00
PB163250BS	PB163250BS	09/10/2024	17:58	PS027620.D	7.15	0.00
PB163250BSD	PB163250BSD	09/10/2024	18:23	PS027621.D	7.15	0.00
I.BLK	I.BLK	09/10/2024	21:37	PS027629.D	7.15	0.00
HSTDCCC750	HSTDCCC750	09/10/2024	22:02	PS027630.D	7.15	0.00
I.BLK	I.BLK	09/12/2024	21:00	PS027652.D	7.11	0.00
HSTDICC200	HSTDICC200	09/12/2024	21:24	PS027653.D	7.11	0.00
HSTDICC500	HSTDICC500	09/12/2024	21:48	PS027654.D	7.11	0.00
HSTDICC750	HSTDICC750	09/12/2024	22:12	PS027655.D	7.11	0.00
HSTDICC1000	HSTDICC1000	09/12/2024	22:35	PS027656.D	7.11	0.00
HSTDICC1500	HSTDICC1500	09/12/2024	22:59	PS027657.D	7.11	0.00
I.BLK	I.BLK	09/12/2024	23:47	PS027659.D	7.11	0.00
HSTDCCC750	HSTDCCC750	09/13/2024	00:11	PS027660.D	7.11	0.00
PT-HERB-WP	P3845-17	09/13/2024	00:35	PS027661.D	7.11	0.00
I.BLK	I.BLK	09/13/2024	00:59	PS027662.D	7.11	0.00
HSTDCCC750	HSTDCCC750	09/13/2024	01:22	PS027663.D	7.11	0.00

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

Analytical Sequence

Client: Chemtech Consulting Group **SDG No.:** P3845

Project: NJ Waste Water PT **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 09/03/2024 09/03/2024

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 #
I.BLK	I.BLK	09/03/2024	13:02	PS027580.D	7.73	0.00
HSTDICC200	HSTDICC200	09/03/2024	13:26	PS027581.D	7.73	0.00
HSTDICC500	HSTDICC500	09/03/2024	13:51	PS027582.D	7.73	0.00
HSTDICC750	HSTDICC750	09/03/2024	14:14	PS027583.D	7.73	0.00
HSTDICC1000	HSTDICC1000	09/03/2024	14:38	PS027584.D	7.73	0.00
HSTDICC1500	HSTDICC1500	09/03/2024	15:03	PS027585.D	7.73	0.00
I.BLK	I.BLK	09/10/2024	13:54	PS027617.D	7.73	0.00
HSTDCCC750	HSTDCCC750	09/10/2024	14:18	PS027618.D	7.73	0.00
PB163250BL	PB163250BL	09/10/2024	17:34	PS027619.D	7.73	0.00
PB163250BS	PB163250BS	09/10/2024	17:58	PS027620.D	7.73	0.00
PB163250BSD	PB163250BSD	09/10/2024	18:23	PS027621.D	7.73	0.00
I.BLK	I.BLK	09/10/2024	21:37	PS027629.D	7.73	0.00
HSTDCCC750	HSTDCCC750	09/10/2024	22:02	PS027630.D	7.73	0.00
I.BLK	I.BLK	09/12/2024	21:00	PS027652.D	7.63	0.00
HSTDICC200	HSTDICC200	09/12/2024	21:24	PS027653.D	7.63	0.00
HSTDICC500	HSTDICC500	09/12/2024	21:48	PS027654.D	7.63	0.00
HSTDICC750	HSTDICC750	09/12/2024	22:12	PS027655.D	7.63	0.00
HSTDICC1000	HSTDICC1000	09/12/2024	22:35	PS027656.D	7.63	0.00
HSTDICC1500	HSTDICC1500	09/12/2024	22:59	PS027657.D	7.63	0.00
I.BLK	I.BLK	09/12/2024	23:47	PS027659.D	7.63	0.00
HSTDCCC750	HSTDCCC750	09/13/2024	00:11	PS027660.D	7.63	0.00
PT-HERB-WP	P3845-17	09/13/2024	00:35	PS027661.D	7.63	0.00
I.BLK	I.BLK	09/13/2024	00:59	PS027662.D	7.63	0.00
HSTDCCC750	HSTDCCC750	09/13/2024	01:22	PS027663.D	7.63	0.00

QC SAMPLE DATA

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163250BL	SDG No.:	P3845
Lab Sample ID:	PB163250BL	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
PS027619.D	1	09/10/24 08:55	09/10/24 17:34	PB163250

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	562		39 - 175	112%	SPK: 500

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163250BL	SDG No.:	P3845
Lab Sample ID:	PB163250BL	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
PS027619.D	1	09/10/24 08:55	09/10/24 17:34	PB163250

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\PS091024\
Data File : PS027619.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 17:34
Operator : AR\AJ
Sample : PB163250BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB163250BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 01:16:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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	7.147	7.726	1425.0E6	1024.0E6	561.951	532.685
	Target Compounds						

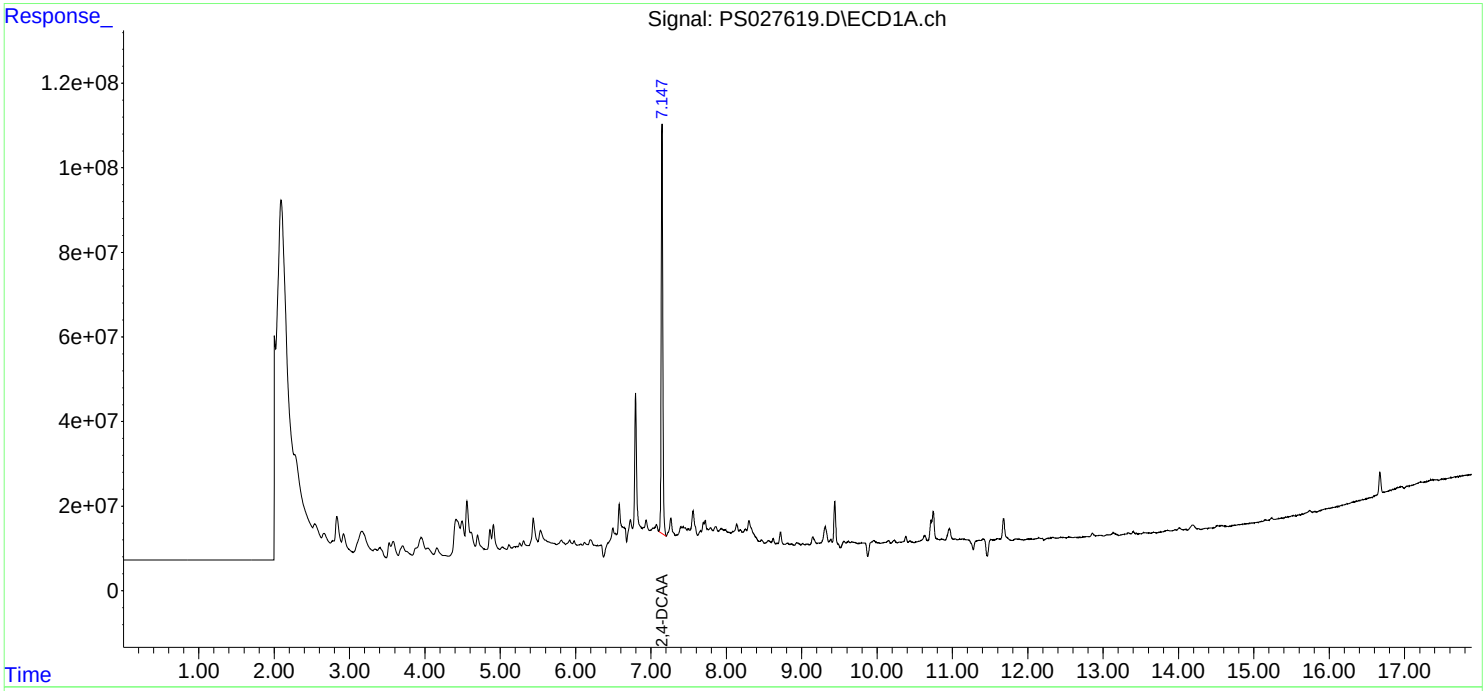
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

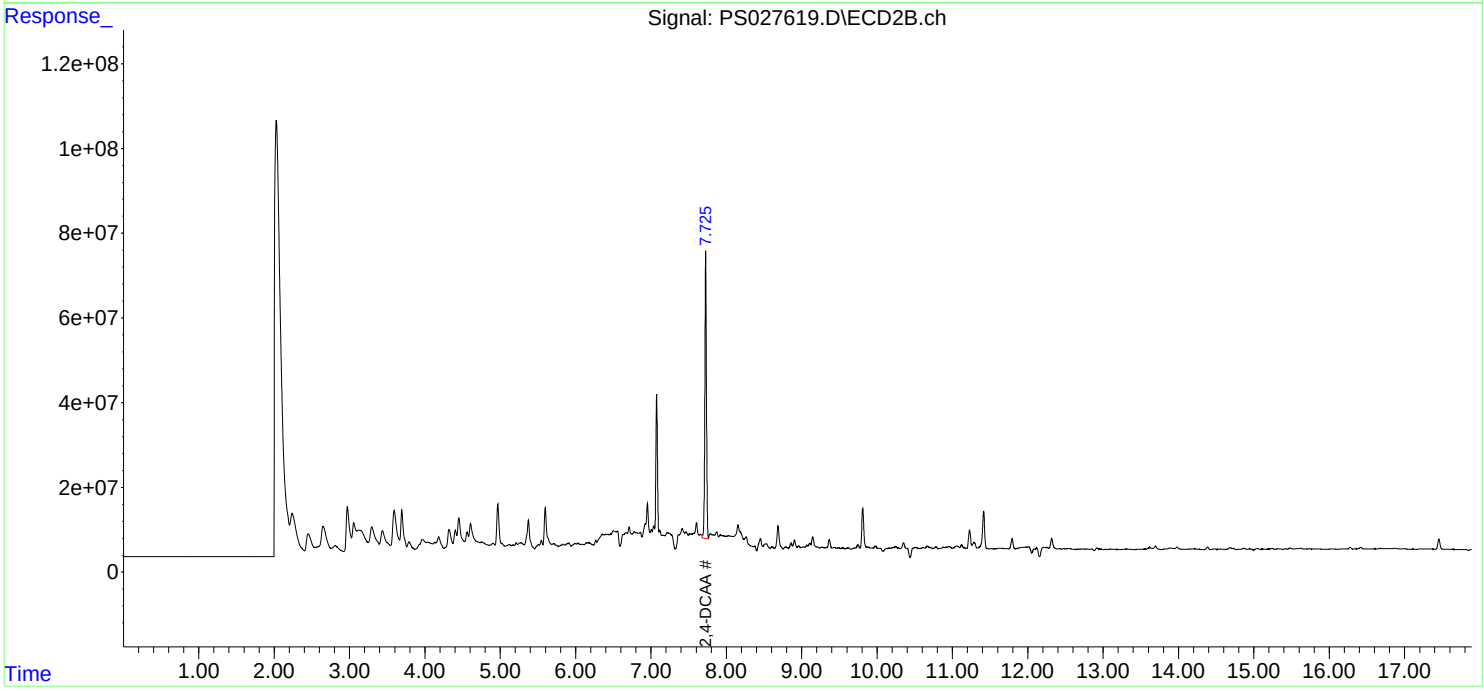
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091024\
Data File : PS027619.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 17:34
Operator : AR\AJ
Sample : PB163250BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

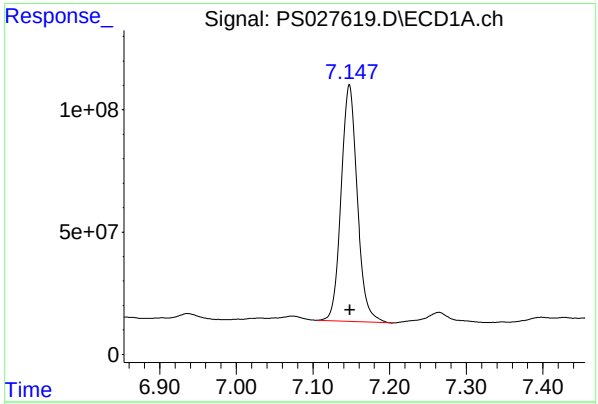
Instrument :
ECD_S
ClientSampleId :
PB163250BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 01:16:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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



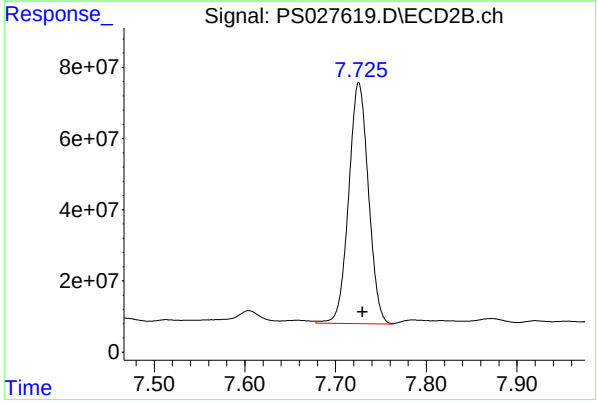




#4 2,4-DCAA

R.T.: 7.147 min
Delta R.T.: -0.001 min
Response: 1425003914
Conc: 561.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BL



#4 2,4-DCAA

R.T.: 7.726 min
Delta R.T.: -0.004 min
Response: 1023994777
Conc: 532.68 ng/ml

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/03/24
Client Sample ID:	PIBLK-PS027580.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027580.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
PS027580.D	1		09/03/24	PS090324

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	503		39 - 175	101%	SPK: 500

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/03/24
Client Sample ID:	PIBLK-PS027580.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027580.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
PS027580.D	1		09/03/24	PS090324

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\PS090324\
Data File : PS027580.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 13:02
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: Sep 03 15:23:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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	7.149	7.730	1232.1E6	966.3E6	485.891	502.690
	Target Compounds						

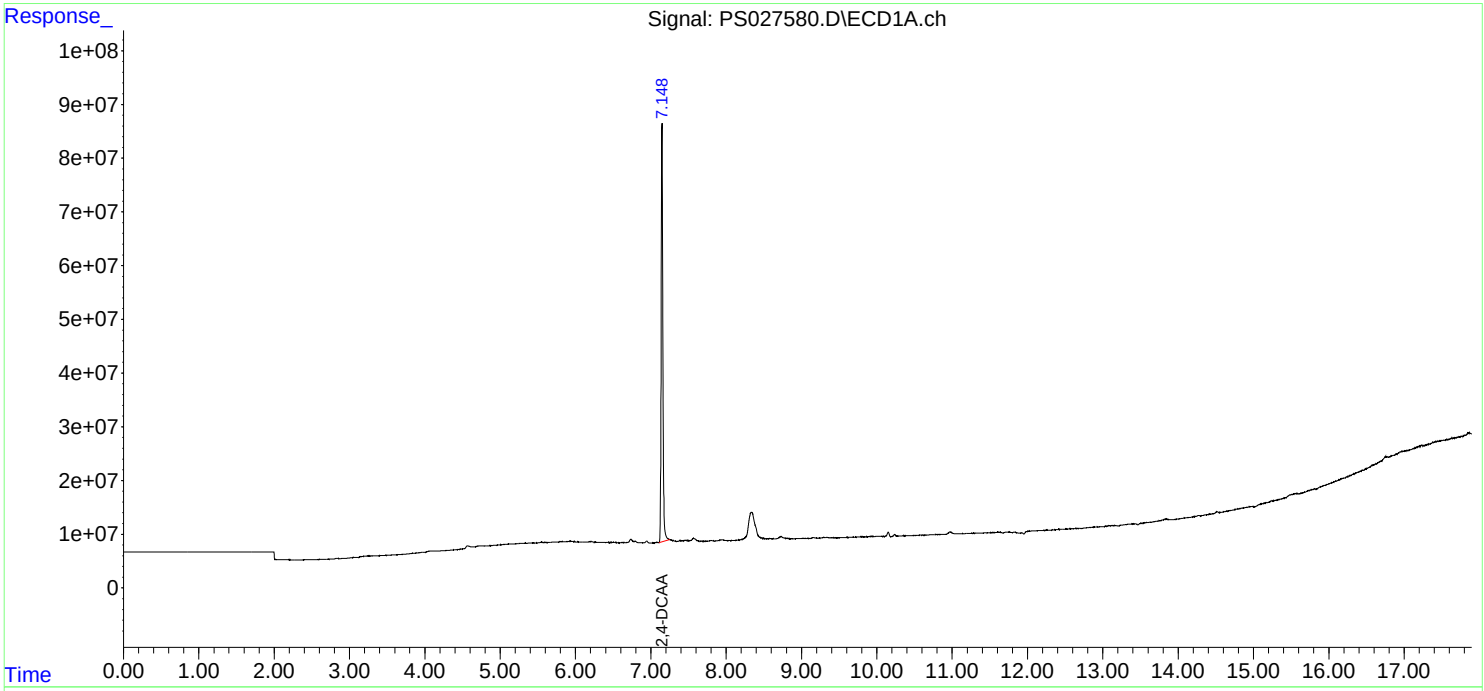
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

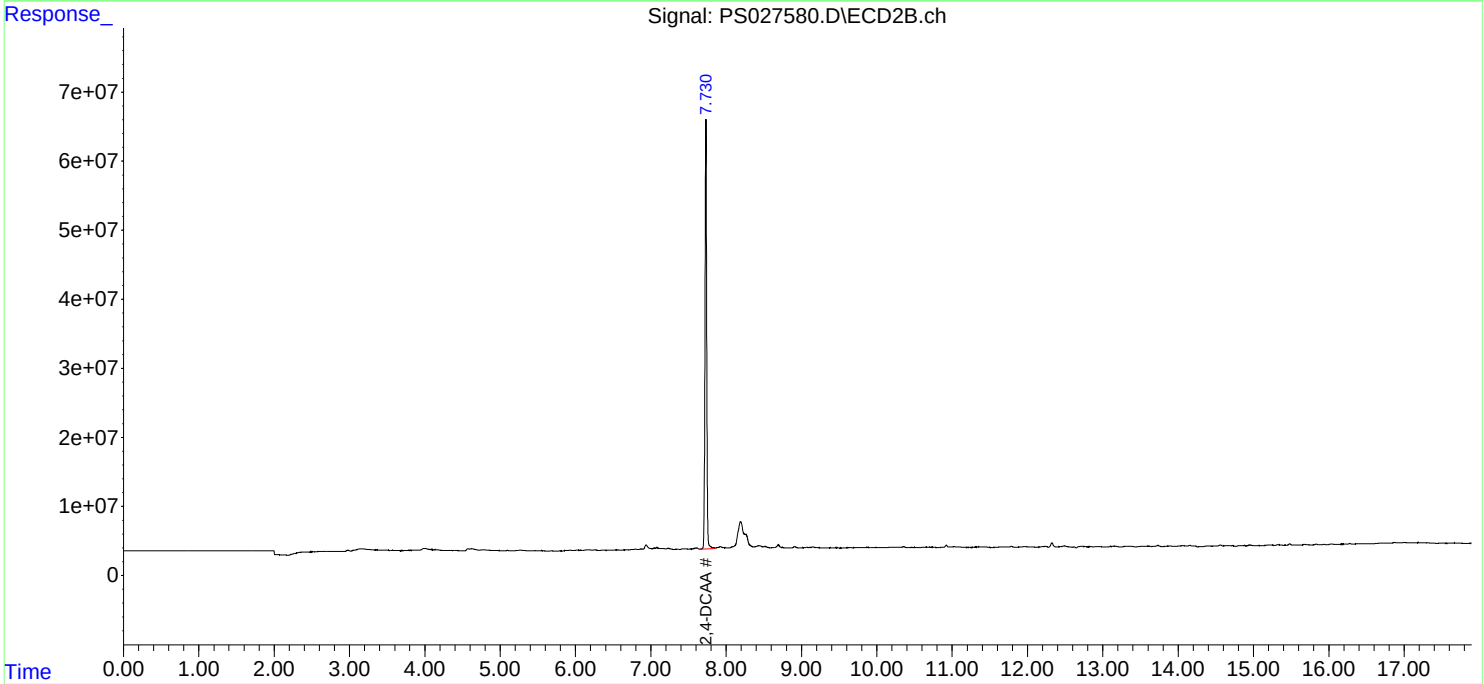
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090324\
Data File : PS027580.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Sep 2024 13:02
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

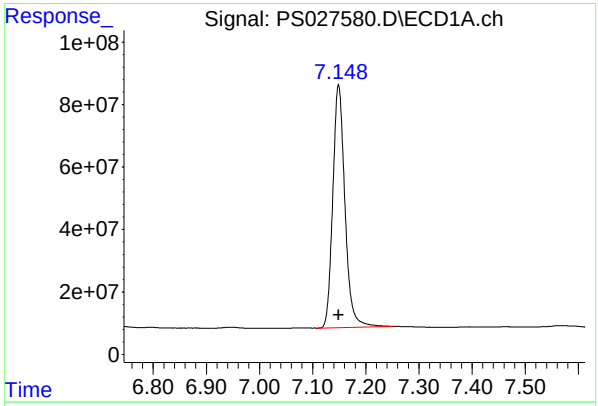
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 03 15:23:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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



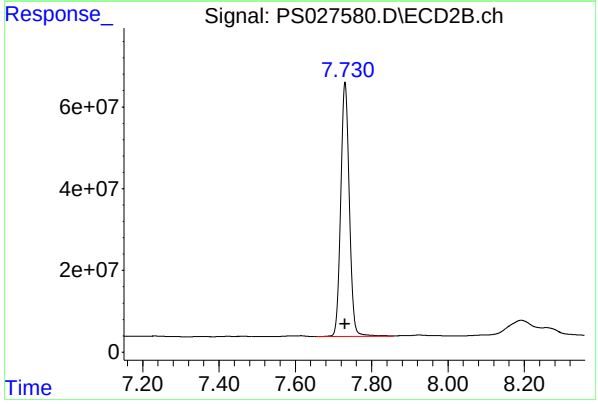




#4 2,4-DCAA

R.T.: 7.149 min
Delta R.T.: 0.000 min
Response: 1232129522
Conc: 485.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.730 min
Delta R.T.: 0.000 min
Response: 966334914
Conc: 502.69 ng/ml

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/10/24
Project:	NJ Waste Water PT	Date Received:	09/10/24
Client Sample ID:	PIBLK-PS027617.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027617.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
PS027617.D	1		09/10/24	PS091024

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	537		39 - 175	107%	SPK: 500

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/10/24
Project:	NJ Waste Water PT	Date Received:	09/10/24
Client Sample ID:	PIBLK-PS027617.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027617.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
PS027617.D	1		09/10/24	PS091024

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\PS091024\
Data File : PS027617.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 13:54
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 01:15:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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	7.147	7.730	1277.3E6	1032.3E6	503.687	537.005
	Target Compounds						

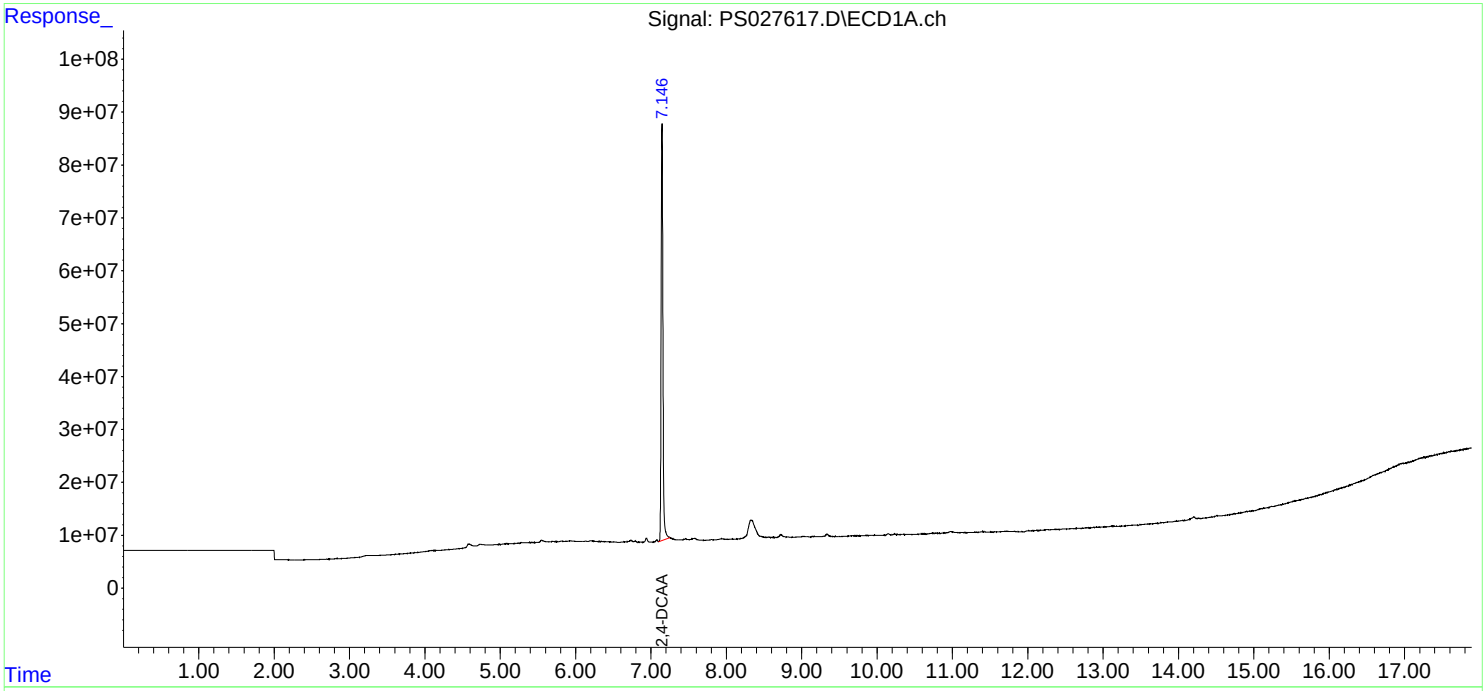
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

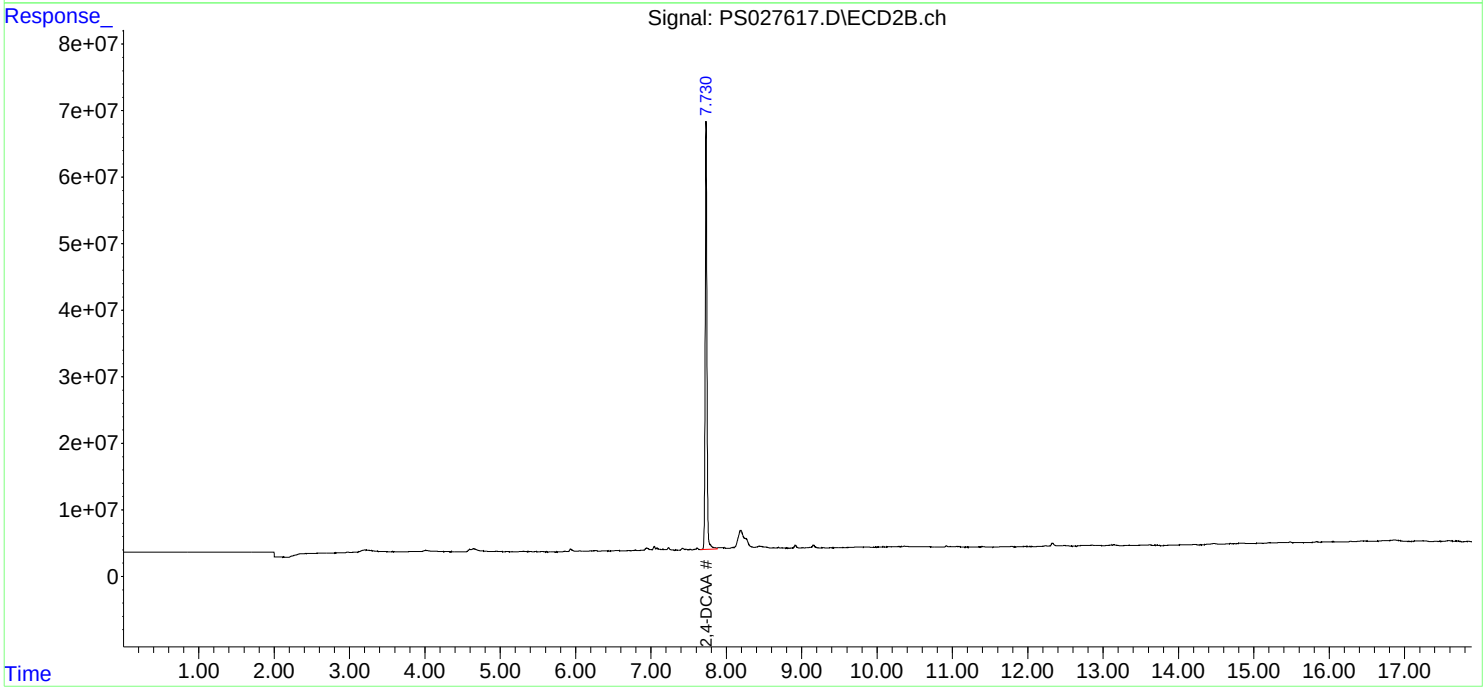
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091024\
Data File : PS027617.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 13:54
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

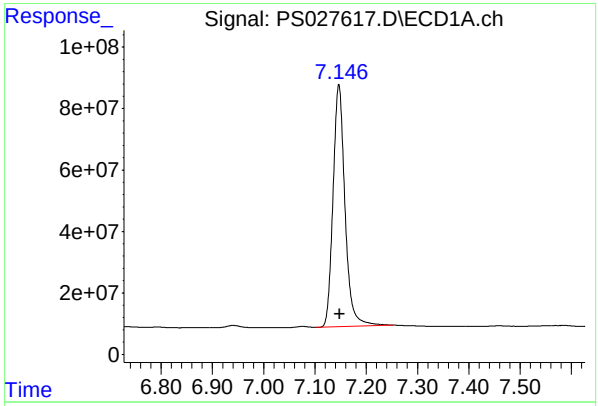
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 01:15:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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



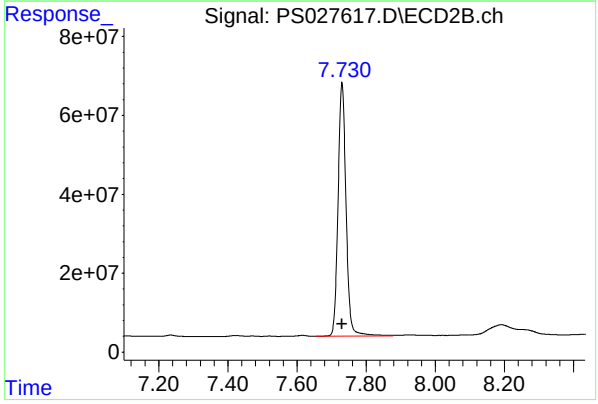




#4 2,4-DCAA

R.T.: 7.147 min
Delta R.T.: -0.002 mi
Response: 1277258832
Conc: 503.69 ng/m

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.730 min
Delta R.T.: 0.000 min
Response: 1032300306
Conc: 537.01 ng/ml

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/10/24
Project:	NJ Waste Water PT	Date Received:	09/10/24
Client Sample ID:	PIBLK-PS027629.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027629.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
PS027629.D	1		09/10/24	PS091024

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	534		39 - 175	107%	SPK: 500

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/10/24
Project:	NJ Waste Water PT	Date Received:	09/10/24
Client Sample ID:	PIBLK-PS027629.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027629.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
PS027629.D	1		09/10/24	PS091024

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\PS091024\
Data File : PS027629.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 21:37
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: Sep 11 01:22:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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	7.145	7.731	1292.3E6	1027.0E6	509.608	534.235
	Target Compounds						

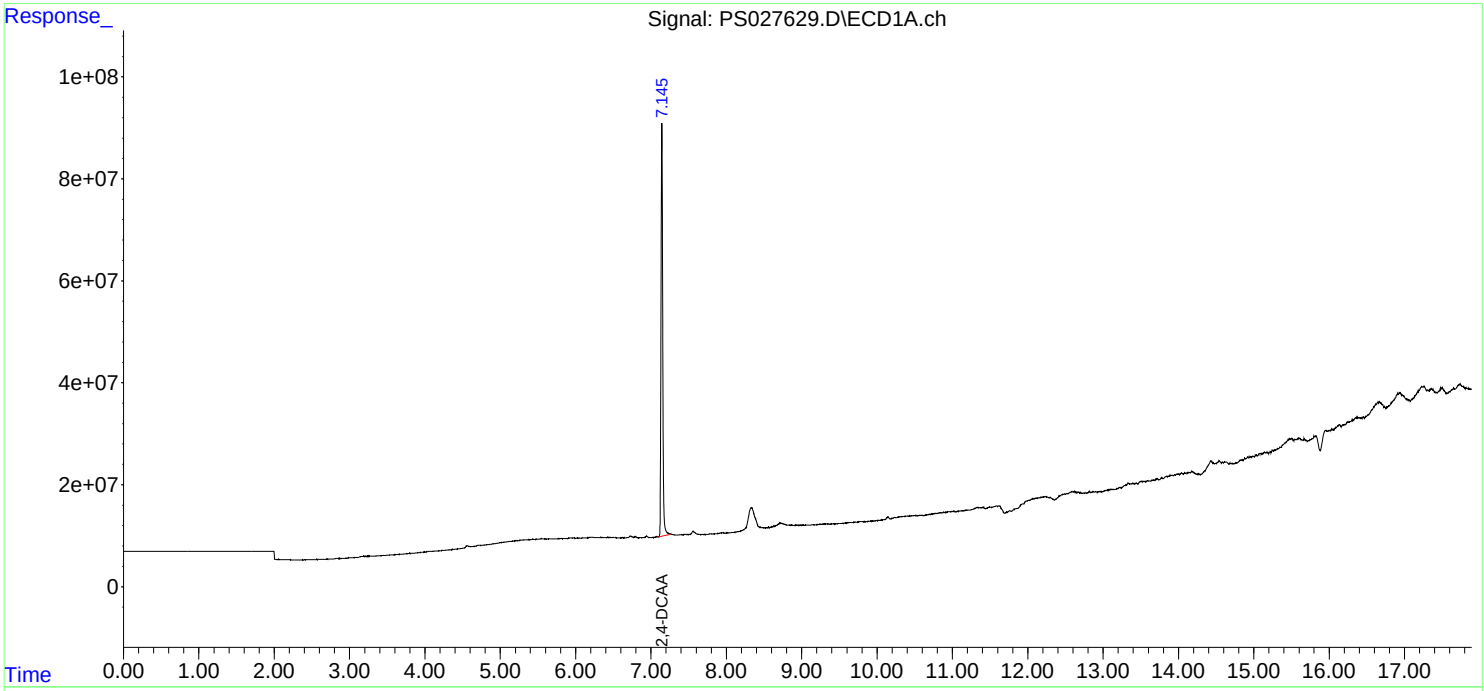
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

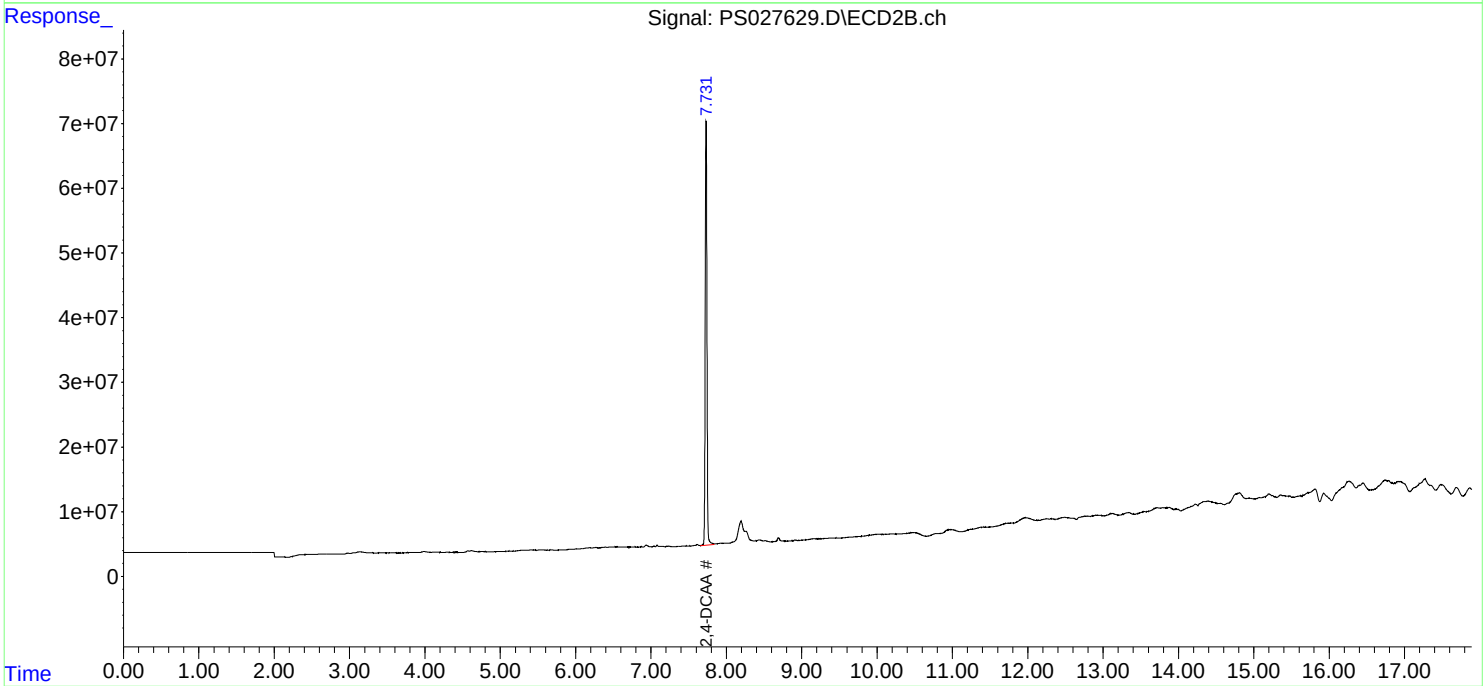
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091024\
Data File : PS027629.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 21:37
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

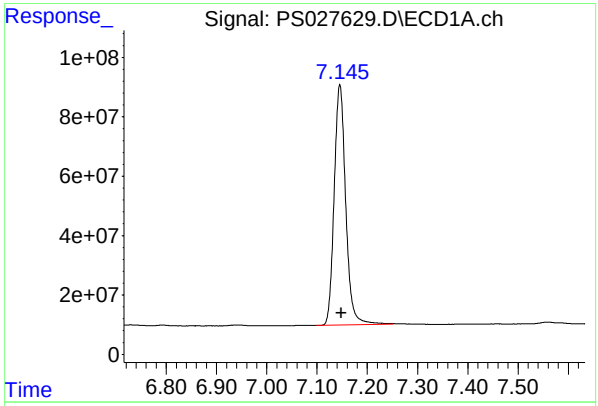
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 01:22:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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



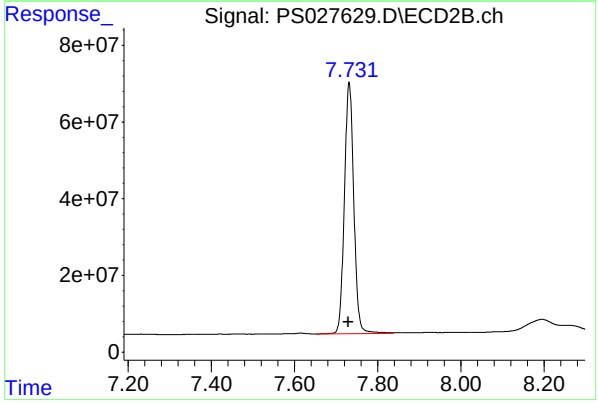




#4 2,4-DCAA

R.T.: 7.145 min
Delta R.T.: -0.003 mi
Response: 1292273412
Conc: 509.61 ng/m

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.731 min
Delta R.T.: 0.002 min
Response: 1026975102
Conc: 534.24 ng/ml

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/12/24
Project:	NJ Waste Water PT	Date Received:	09/12/24
Client Sample ID:	PIBLK-PS027652.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027652.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
PS027652.D	1		09/12/24	ps091224

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	524		39 - 175	105%	SPK: 500

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/12/24
Project:	NJ Waste Water PT	Date Received:	09/12/24
Client Sample ID:	PIBLK-PS027652.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027652.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
PS027652.D	1		09/12/24	ps091224

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\PS091224\
Data File : PS027652.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 21:00
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:42:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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	7.111	7.633	1232.7E6	519.4E6	495.530	524.103
	Target Compounds						

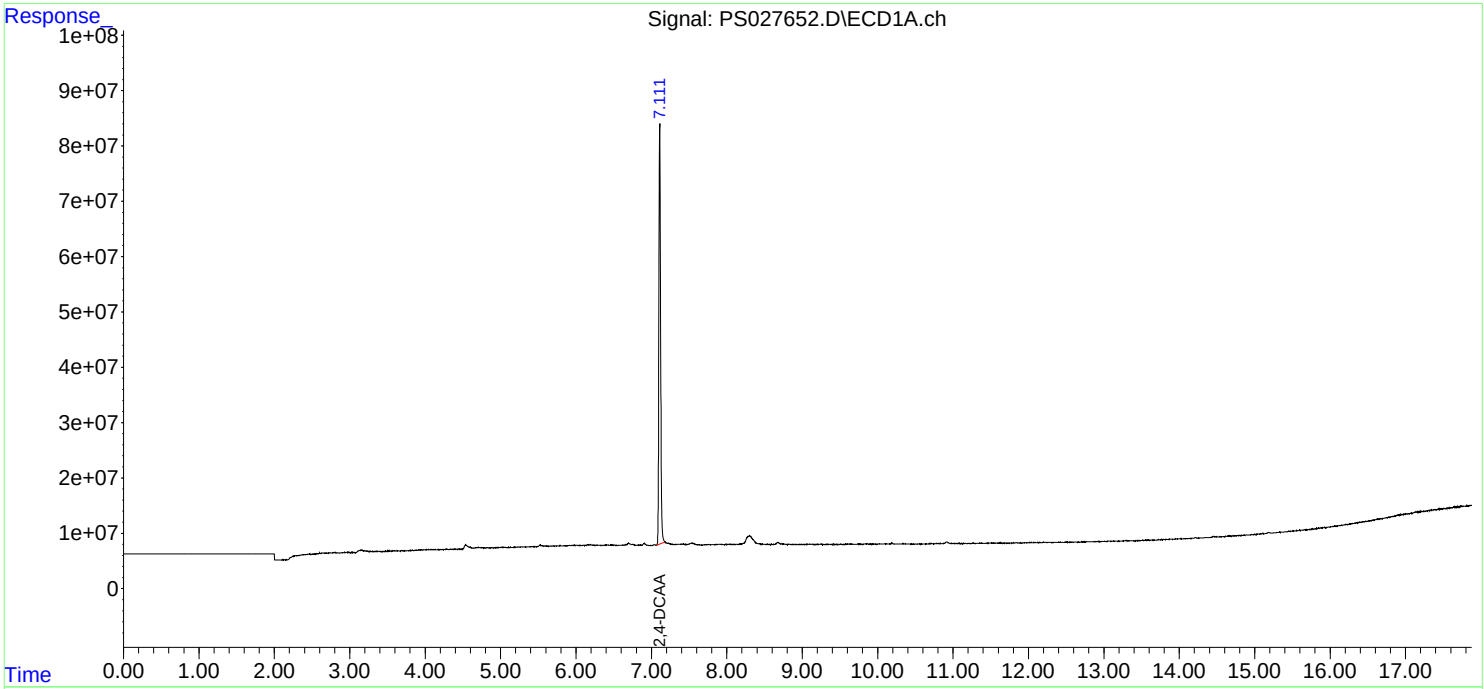
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

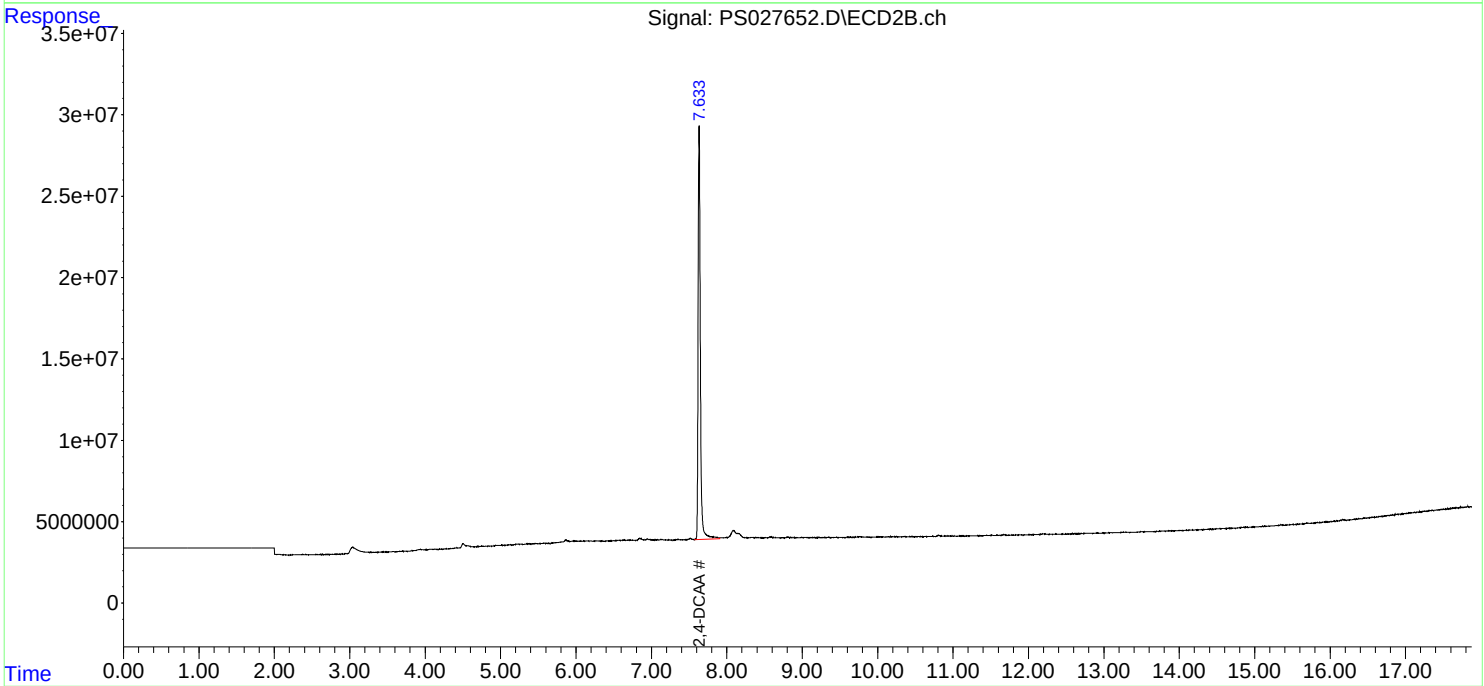
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027652.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 21:00
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

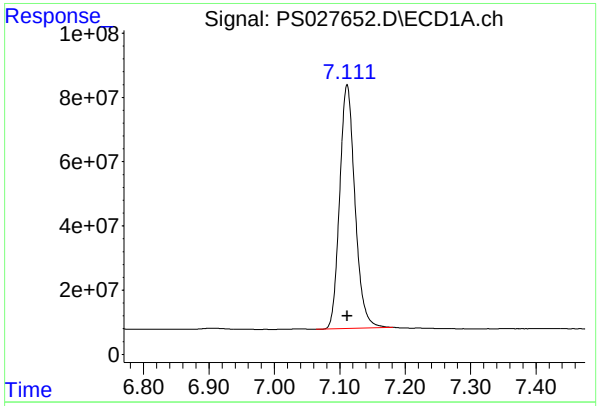
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:42:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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



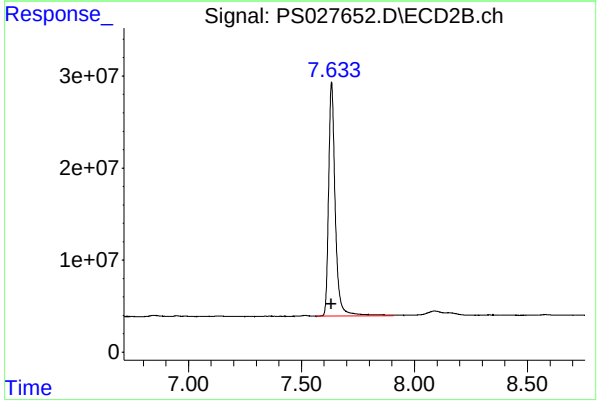




#4 2,4-DCAA

R.T.: 7.111 min
Delta R.T.: 0.000 min
Response: 1232684817
Conc: 495.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 519403705
Conc: 524.10 ng/ml

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/12/24
Project:	NJ Waste Water PT	Date Received:	09/12/24
Client Sample ID:	PIBLK-PS027659.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027659.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
PS027659.D	1		09/12/24	ps091224

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	513		39 - 175	103%	SPK: 500

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/12/24
Project:	NJ Waste Water PT	Date Received:	09/12/24
Client Sample ID:	PIBLK-PS027659.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027659.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
PS027659.D	1		09/12/24	ps091224

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\PS091224\
Data File : PS027659.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 23:47
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: Sep 14 02:43:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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	7.111	7.634	1225.2E6	508.1E6	492.532	512.738
	Target Compounds						

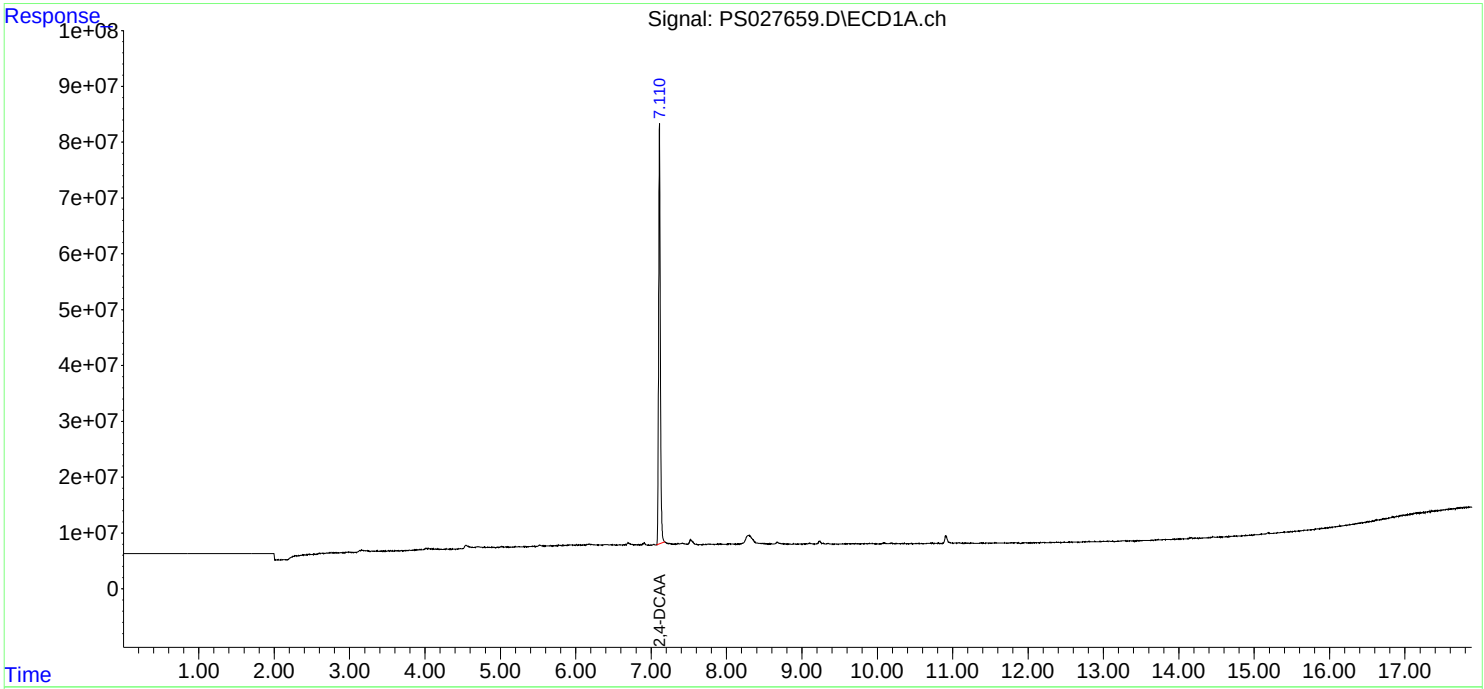
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

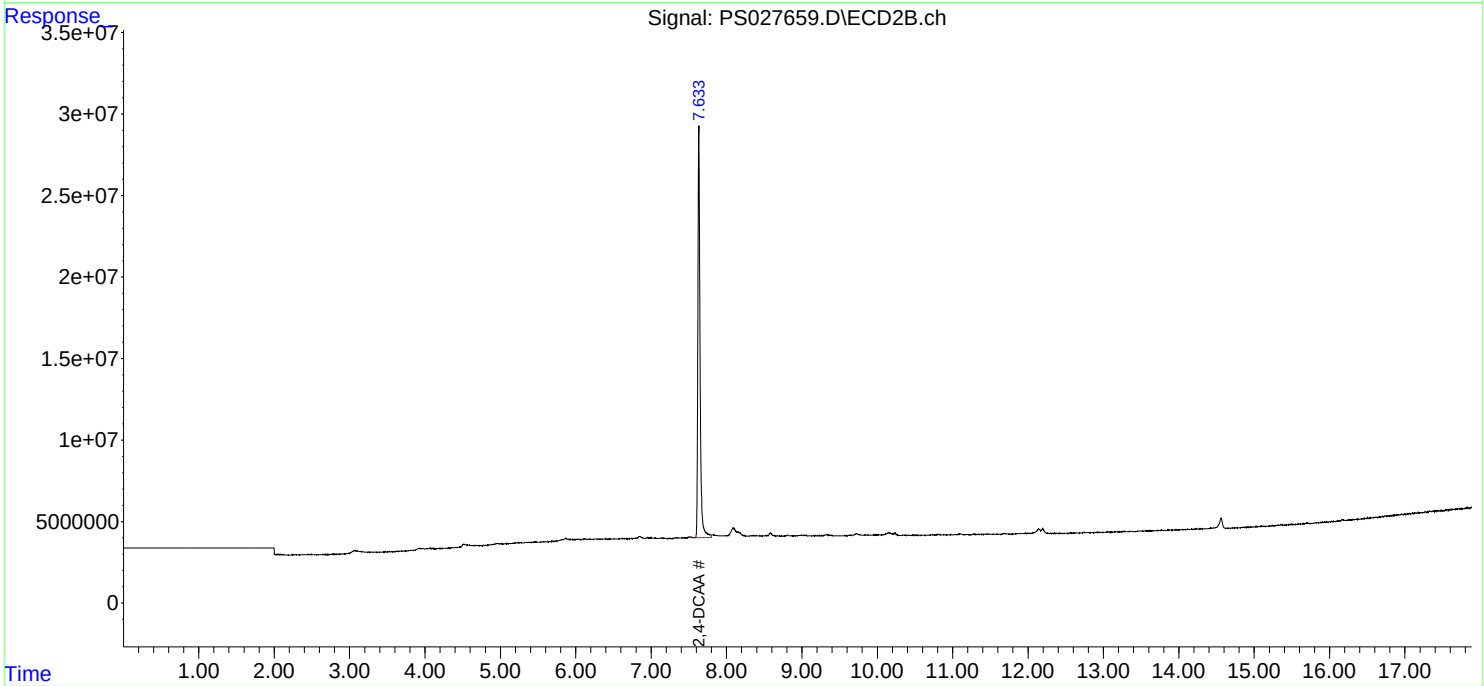
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027659.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Sep 2024 23:47
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

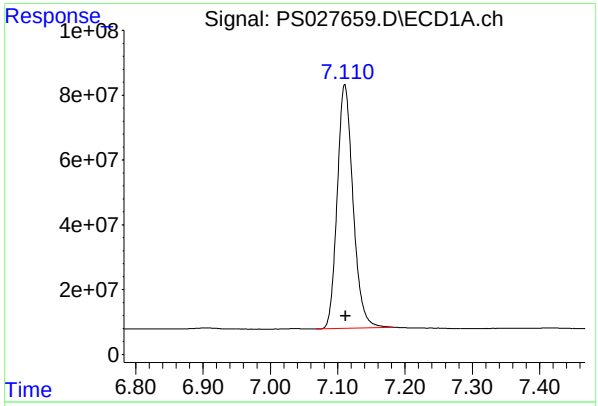
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:43:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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



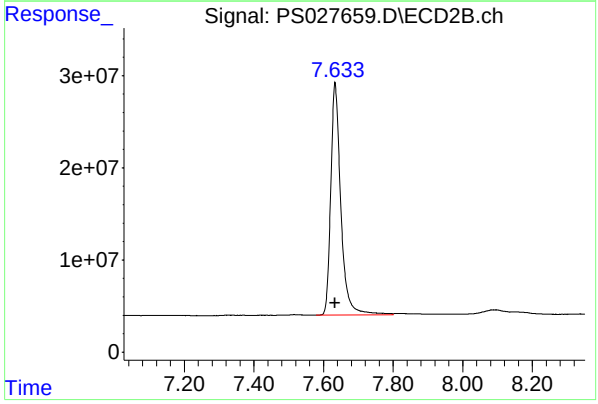




#4 2,4-DCAA

R.T.: 7.111 min
Delta R.T.: 0.000 min
Response: 1225225859
Conc: 492.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.634 min
Delta R.T.: 0.000 min
Response: 508140091
Conc: 512.74 ng/ml

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/13/24
Project:	NJ Waste Water PT	Date Received:	09/13/24
Client Sample ID:	PIBLK-PS027662.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027662.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
PS027662.D	1		09/13/24	ps091224

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	510		39 - 175	102%	SPK: 500

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/13/24
Project:	NJ Waste Water PT	Date Received:	09/13/24
Client Sample ID:	PIBLK-PS027662.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PS027662.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
PS027662.D	1		09/13/24	ps091224

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\PS091224\
Data File : PS027662.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Sep 2024 00:59
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:44:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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	7.111	7.633	1232.0E6	505.5E6	495.272	510.100
	Target Compounds						

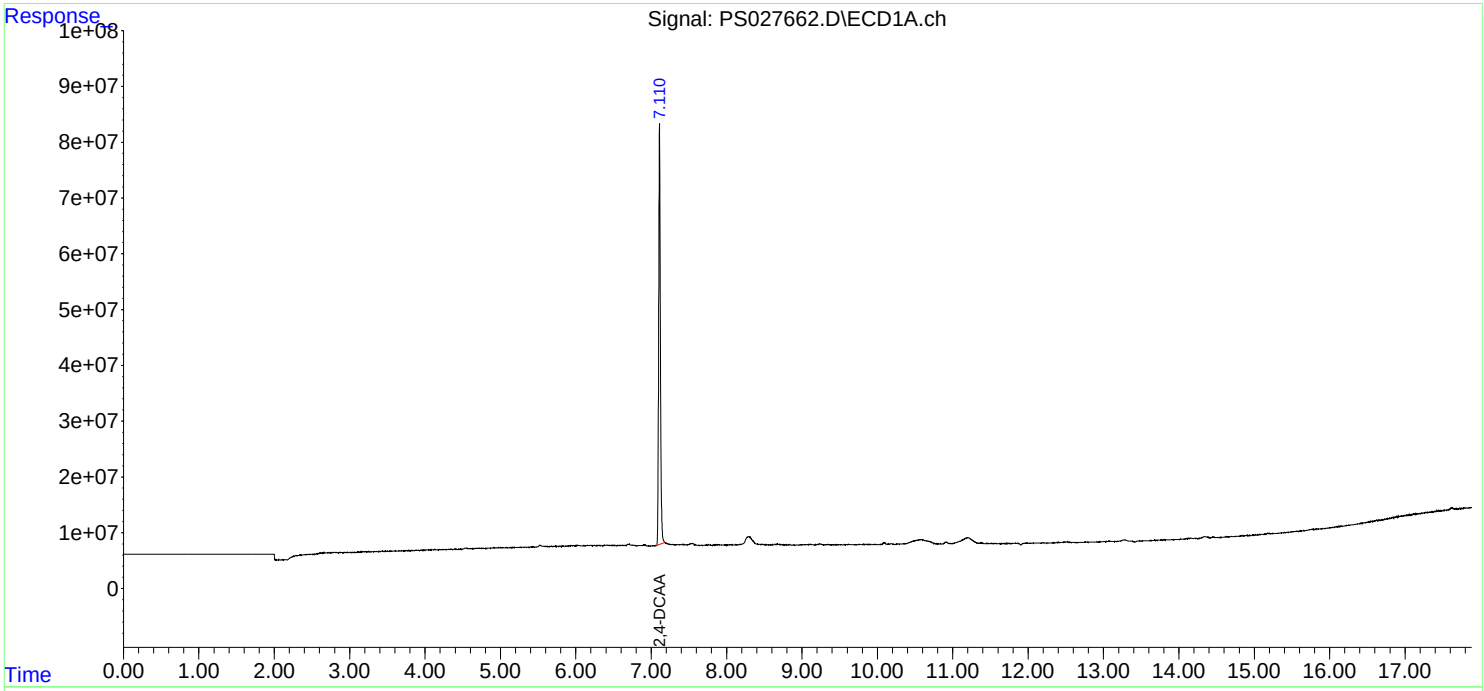
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

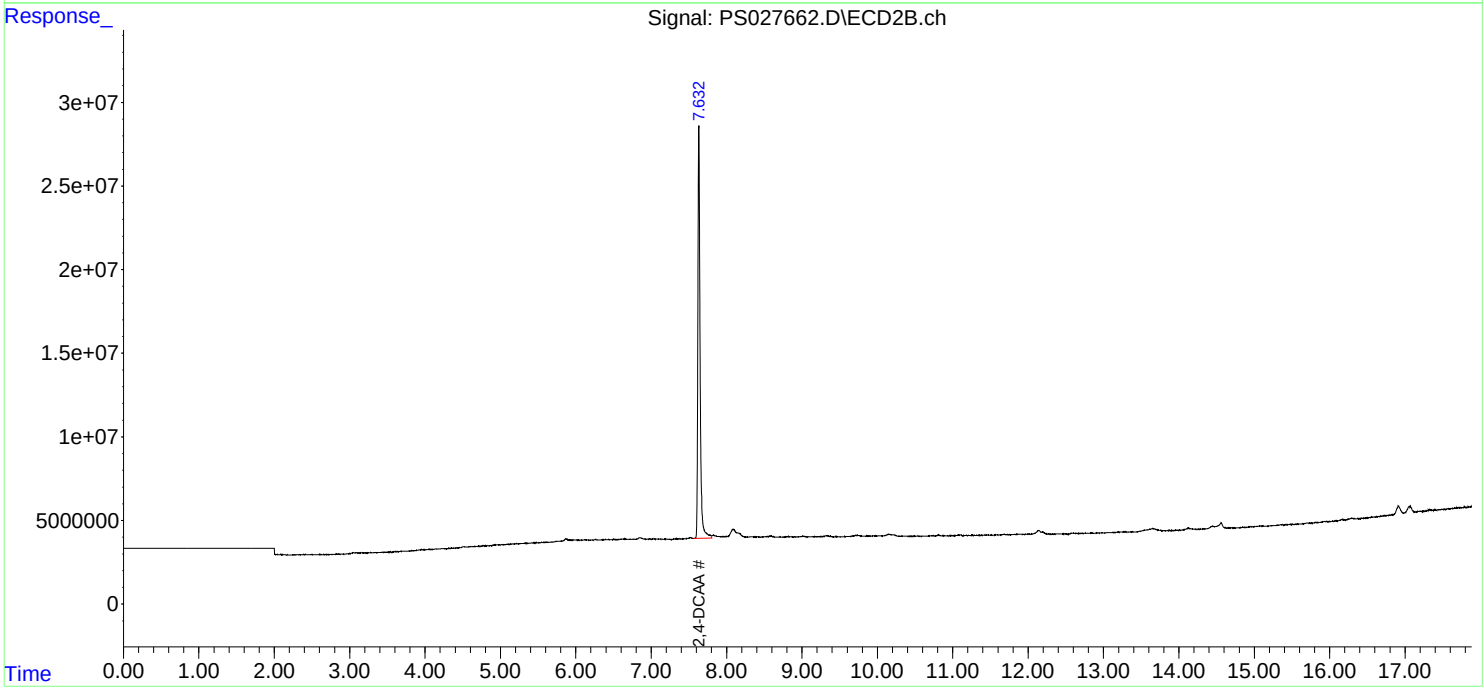
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091224\
Data File : PS027662.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Sep 2024 00:59
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

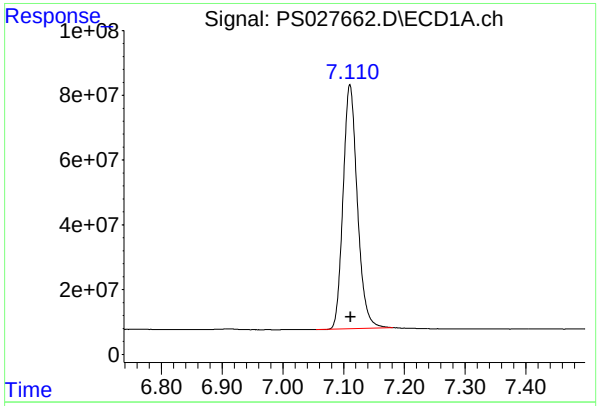
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 14 02:44:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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



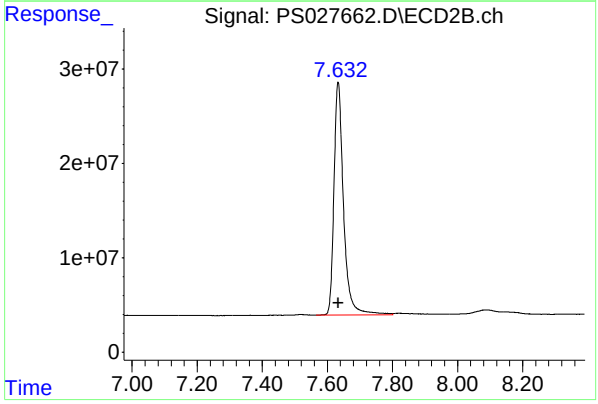




#4 2,4-DCAA

R.T.: 7.111 min
Delta R.T.: -0.001 mi
Response: 1232041066
Conc: 495.27 ng/m

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 505526166
Conc: 510.10 ng/ml

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163250BS	SDG No.:	P3845
Lab Sample ID:	PB163250BS	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
PS027620.D	1	09/10/24 08:55	09/10/24 17:58	PB163250

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.47		0.047	0.20	ug/L
1918-00-9	DICAMBA	4.90		0.42	2.00	ug/L
75-99-0	DALAPON	4.90		1.10	2.00	ug/L
94-74-6	MCPA	0.45		0.052	0.20	ug/L
120-36-5	DICHLORPROP	4.90		0.43	2.00	ug/L
94-75-7	2,4-D	4.90		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.00		0.45	2.00	ug/L
93-76-5	2,4,5-T	5.00		0.50	2.00	ug/L
94-82-6	2,4-DB	5.00		0.57	2.00	ug/L
88-85-7	DINOSEB	5.40		0.55	2.00	ug/L
87-86-5	Pentachlorophenol	5.10		0.50	2.00	ug/L
100-02-7	4-Nitrophenol	4.80		0.53	2.00	ug/L
1918-02-1	PICLORAM	4.70		0.50	2.00	ug/L
1861-32-1	DCPA	5.10		0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	4.80		0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	522		39 - 175	104%	SPK: 500

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163250BS	SDG No.:	P3845
Lab Sample ID:	PB163250BS	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
PS027620.D	1	09/10/24 08:55	09/10/24 17:58	PB163250

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\PS091024\
Data File : PS027620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 17:58
Operator : AR\AJ
Sample : PB163250BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB163250BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 01:17:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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	7.146	7.730	1311.3E6	1002.6E6	517.097	521.529
	Target Compounds						
1) T	Dalapon	2.583	2.689	1421.5E6	1695.2E6	462.516	488.551
2) T	3,5-DICHL...	6.331	6.686	1885.1E6	1363.0E6	469.484m	481.828
3) T	4-Nitroph...	6.944	7.260	709.2E6	614.9E6	475.785	477.320
5) T	DICAMBA	7.327	7.927	5274.4E6	4350.5E6	485.000	489.813
6) T	MCPP	7.504	8.027	346.4E6	271.7E6	46.505	45.852
7) T	MCPA	7.648	8.269	456.3E6	382.5E6	45.484	44.571
8) T	DICHLORPROP	8.016	8.638	1302.0E6	1067.3E6	482.804	491.412
9) T	2,4-D	8.241	8.967	1387.7E6	1185.3E6	489.127	489.192
10) T	Pentachlo...	8.530	9.492	20299.1E6	16710.9E6	511.231m	505.794
11) T	2,4,5-TP ...	9.098	9.866	7642.3E6	6627.2E6	494.155m	502.075
12) T	2,4,5-T	9.386	10.284	7466.0E6	6495.1E6	496.901m	499.055
13) T	2,4-DB	9.951	10.847	964.5E6	806.6E6	453.210m	496.340m
14) T	DINOSEB	11.134	11.226	5876.6E6	4398.6E6	532.618	536.339
15) T	Picloram	10.953	12.316	9116.4E6	8692.9E6	468.569	471.459
16) T	DCPA	11.433	12.265	9420.6E6	7375.9E6	510.002	513.545

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

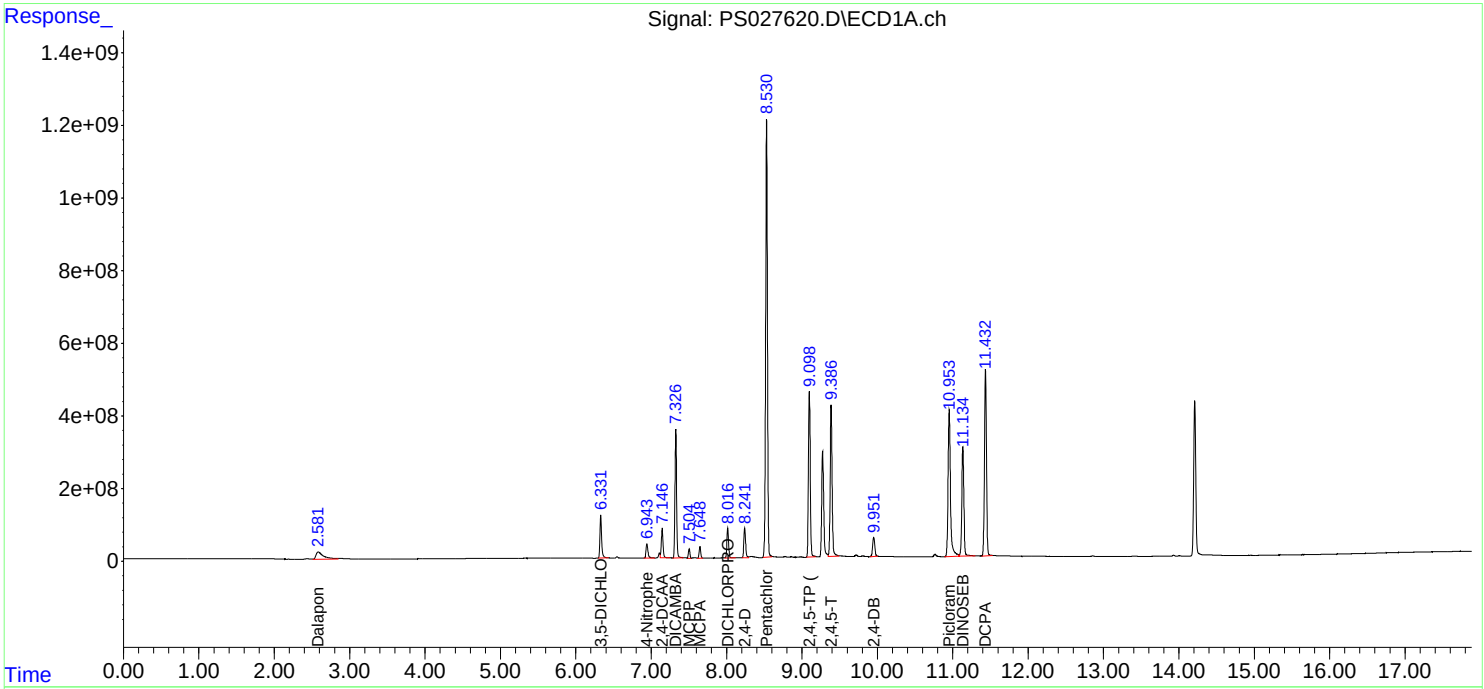
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091024\
Data File : PS027620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 17:58
Operator : AR\AJ
Sample : PB163250BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

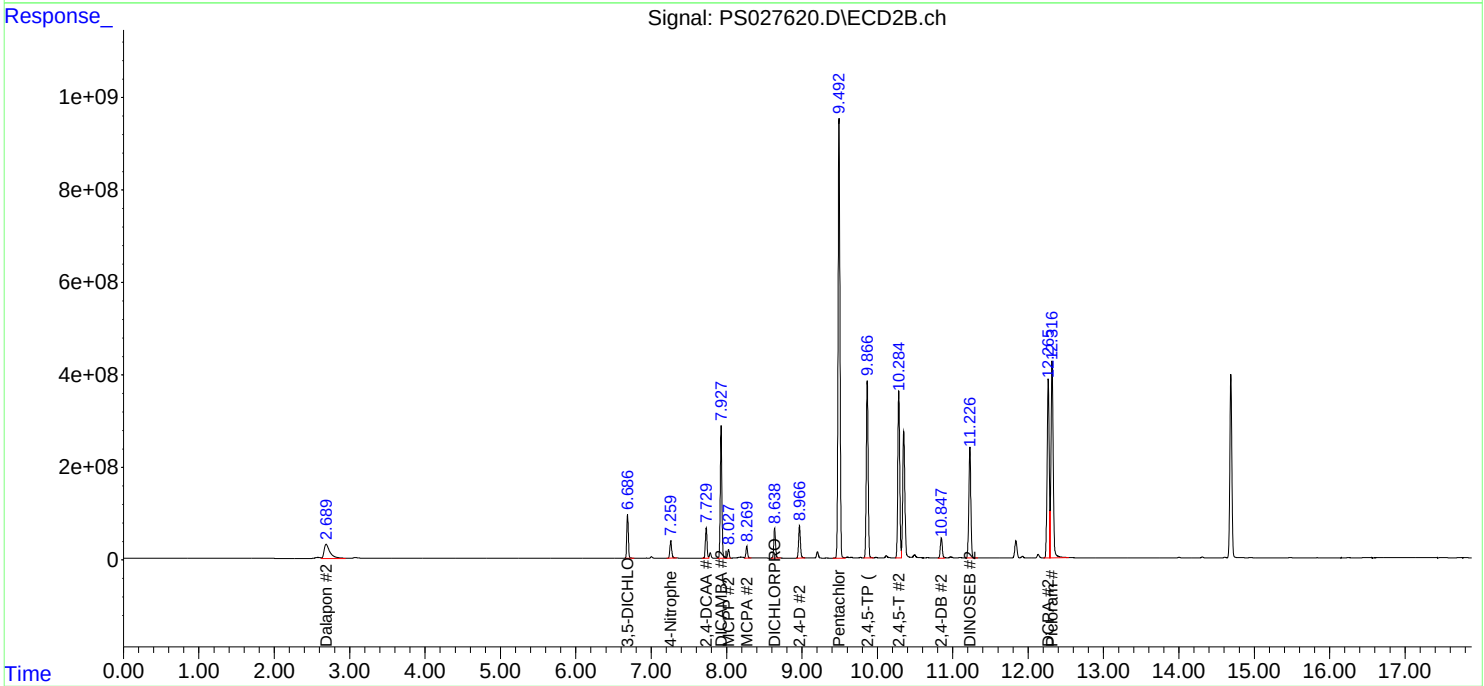
Instrument :
ECD_S
ClientSampleId :
PB163250BS

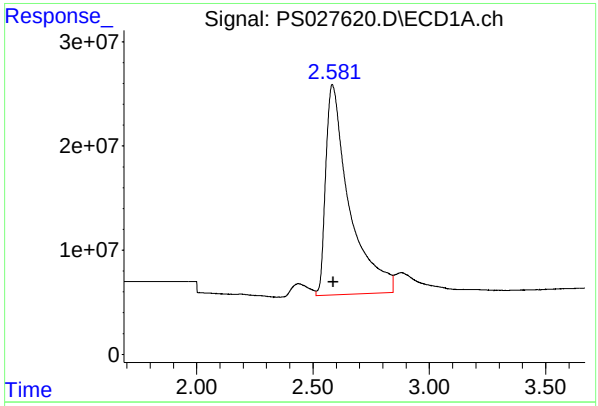
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 01:17:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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







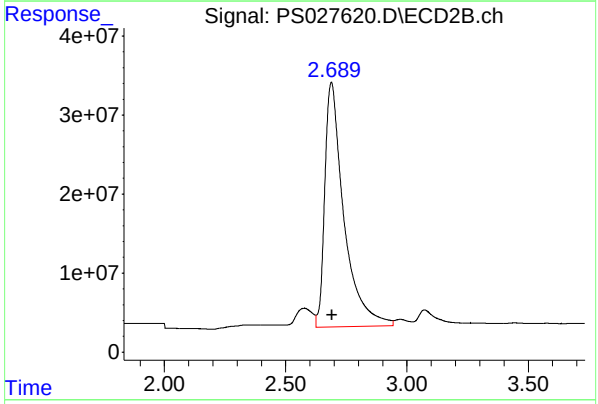
#1 Dalapon

R.T.: 2.583 min
Delta R.T.: -0.005 mi
Response: 1421529025
Conc: 462.52 ng/m

Instrument :
ECD_S
ClientSampleId :
PB163250BS

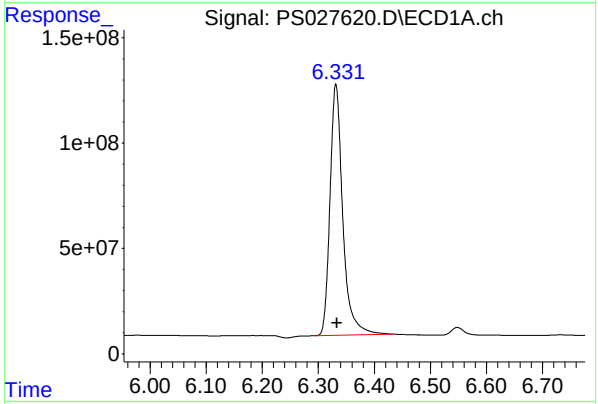
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



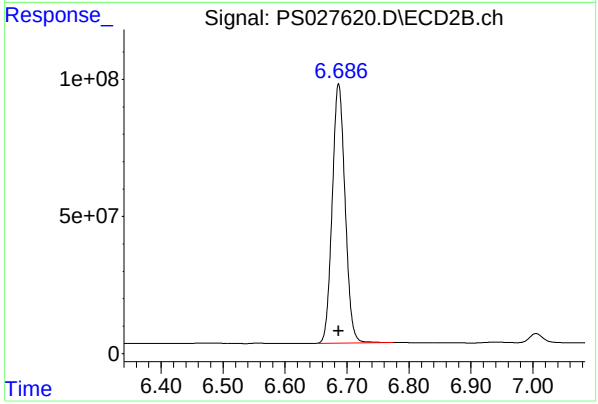
#1 Dalapon

R.T.: 2.689 min
Delta R.T.: -0.002 min
Response: 1695195168
Conc: 488.55 ng/ml



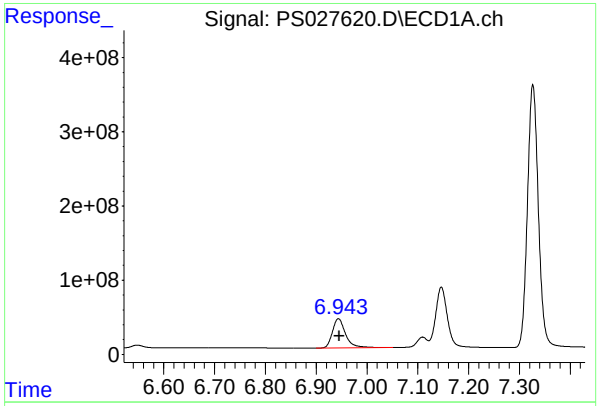
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.331 min
Delta R.T.: -0.002 min
Response: 1885098365
Conc: 469.48 ng/ml m



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.686 min
Delta R.T.: 0.000 min
Response: 1363048717
Conc: 481.83 ng/ml



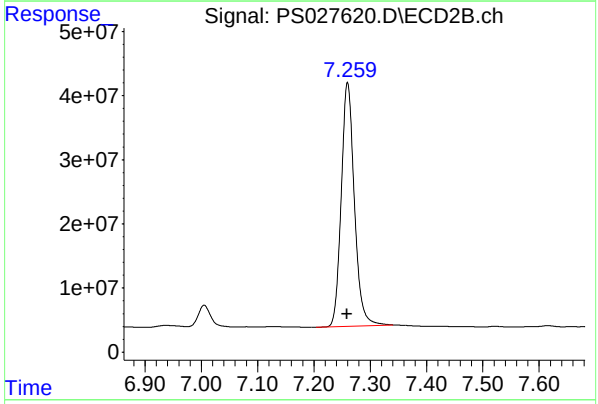
#3 4-Nitrophenol

R.T.: 6.944 min
Delta R.T.: -0.002 min
Response: 709219436
Conc: 475.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BS

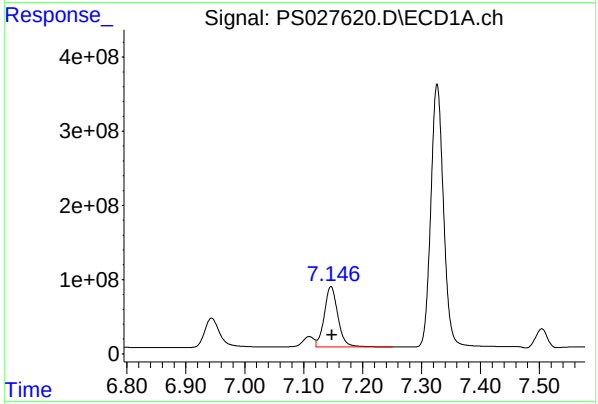
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



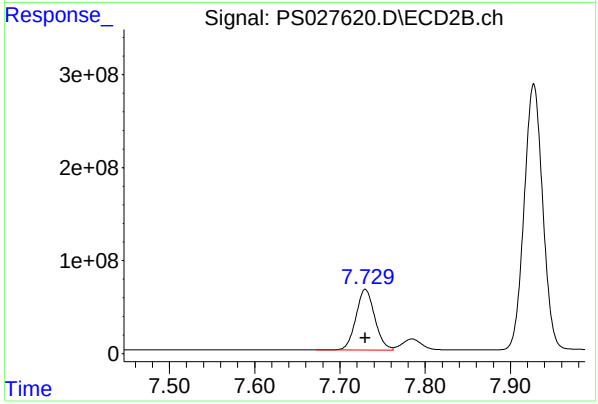
#3 4-Nitrophenol

R.T.: 7.260 min
Delta R.T.: 0.000 min
Response: 614929852
Conc: 477.32 ng/ml



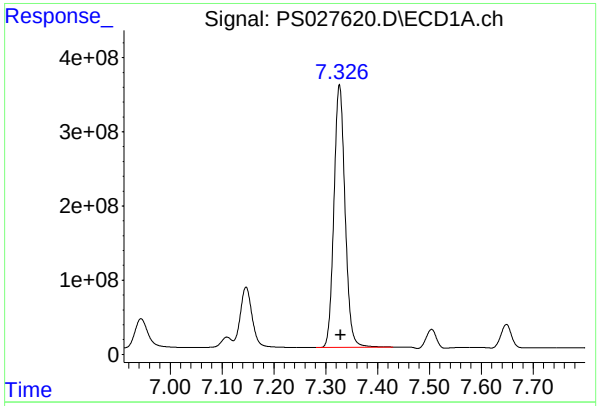
#4 2,4-DCAA

R.T.: 7.146 min
Delta R.T.: -0.002 min
Response: 1311263530
Conc: 517.10 ng/ml



#4 2,4-DCAA

R.T.: 7.730 min
Delta R.T.: 0.000 min
Response: 1002550131
Conc: 521.53 ng/ml



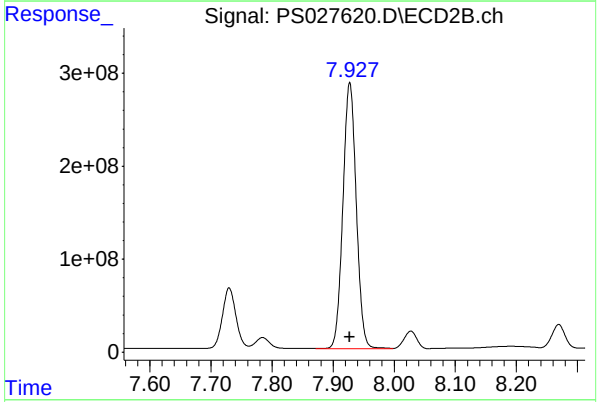
#5 DICAMBA

R.T.: 7.327 min
Delta R.T.: -0.002 min
Response: 5274374407
Conc: 485.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BS

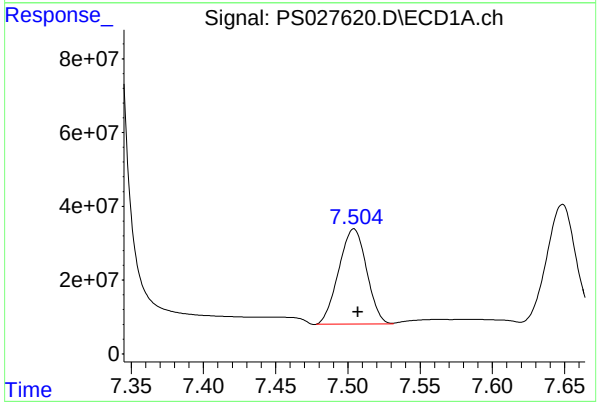
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



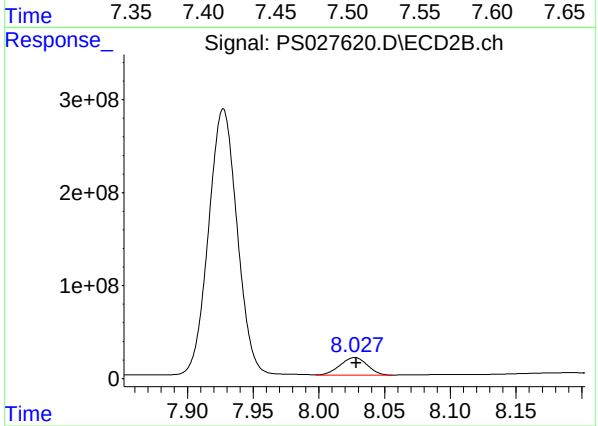
#5 DICAMBA

R.T.: 7.927 min
Delta R.T.: 0.000 min
Response: 4350455650
Conc: 489.81 ng/ml



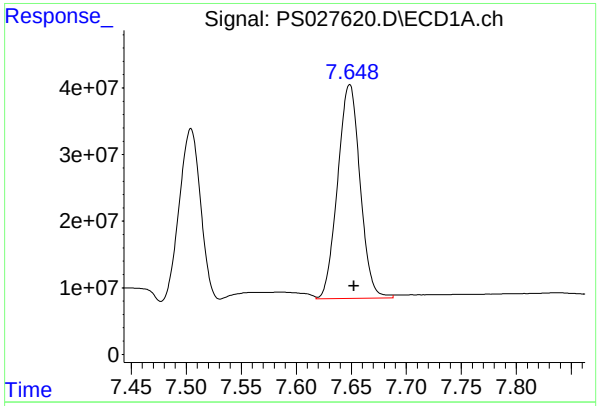
#6 MCPP

R.T.: 7.504 min
Delta R.T.: -0.003 min
Response: 346381829
Conc: 46.50 ug/ml



#6 MCPP

R.T.: 8.027 min
Delta R.T.: -0.001 min
Response: 271720626
Conc: 45.85 ug/ml



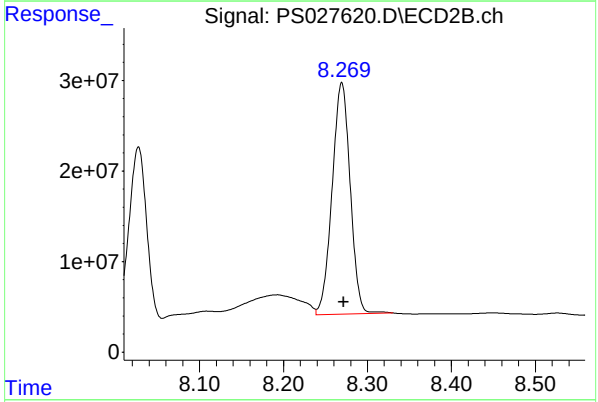
#7 MCPA

R.T.: 7.648 min
Delta R.T.: -0.004 min
Response: 456278982
Conc: 45.48 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BS

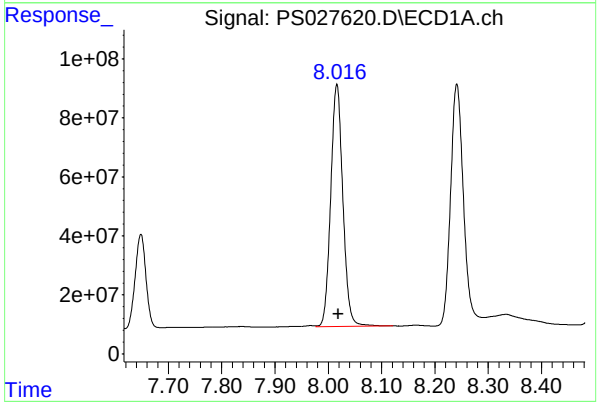
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



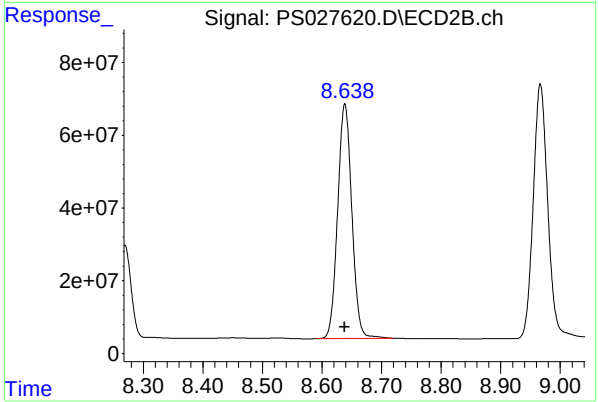
#7 MCPA

R.T.: 8.269 min
Delta R.T.: -0.002 min
Response: 382478777
Conc: 44.57 ug/ml



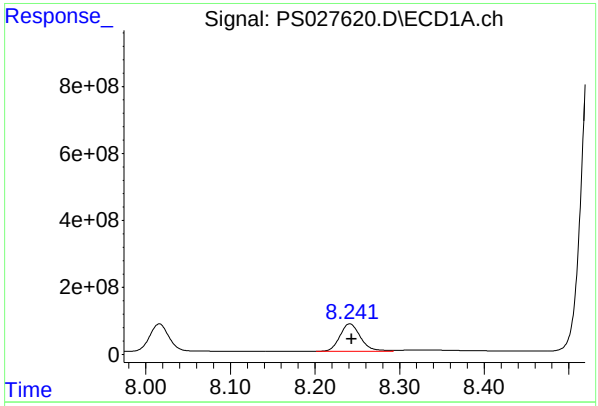
#8 DICHLORPROP

R.T.: 8.016 min
Delta R.T.: -0.003 min
Response: 1302014029
Conc: 482.80 ng/ml



#8 DICHLORPROP

R.T.: 8.638 min
Delta R.T.: 0.000 min
Response: 1067315701
Conc: 491.41 ng/ml



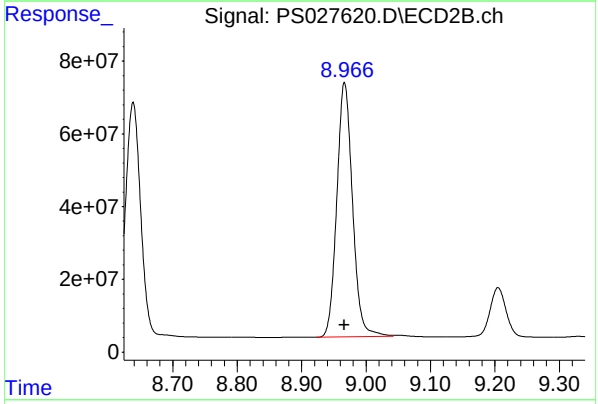
#9 2,4-D

R.T.: 8.241 min
Delta R.T.: -0.002 mi
Response: 1387717216
Conc: 489.13 ng/m

Instrument :
ECD_S
ClientSampleId :
PB163250BS

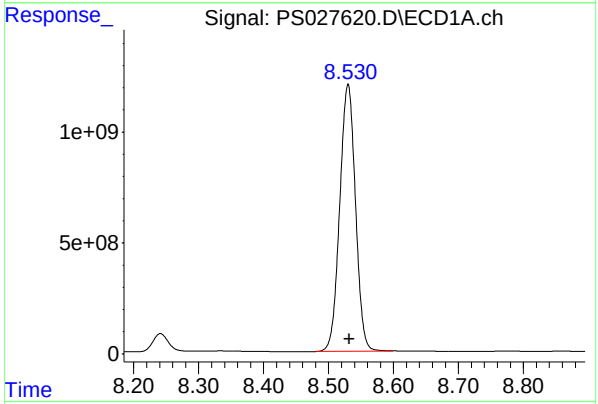
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



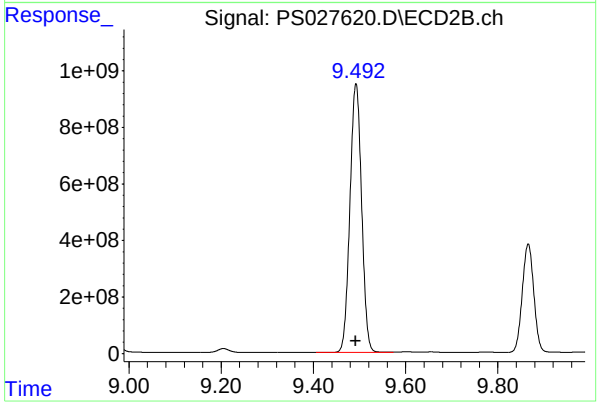
#9 2,4-D

R.T.: 8.967 min
Delta R.T.: 0.000 min
Response: 1185271051
Conc: 489.19 ng/ml



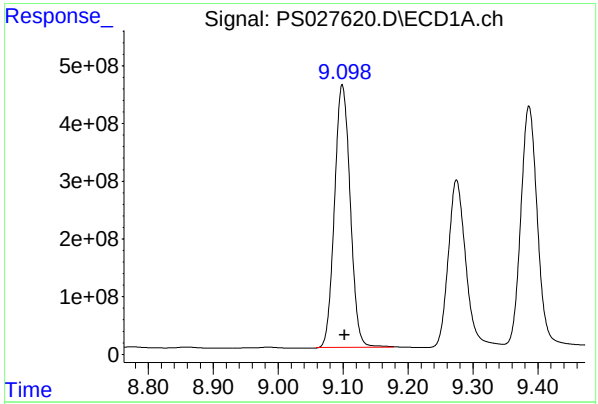
#10 Pentachlorophenol

R.T.: 8.530 min
Delta R.T.: -0.002 min
Response: 20299146924
Conc: 511.23 ng/ml m



#10 Pentachlorophenol

R.T.: 9.492 min
Delta R.T.: 0.000 min
Response: 16710899346
Conc: 505.79 ng/ml



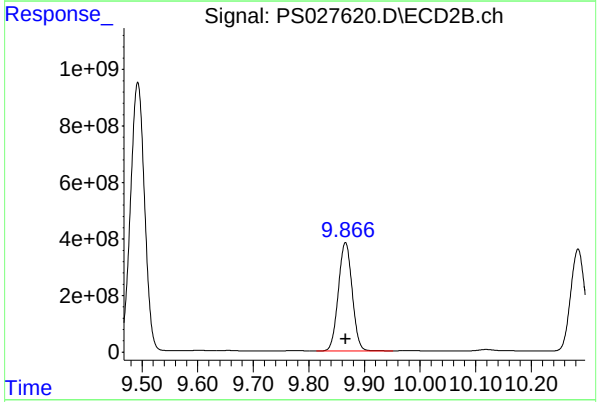
#11 2,4,5-TP (SILVEX)

R.T.: 9.098 min
Delta R.T.: -0.004 mi
Response: 7642296650
Conc: 494.15 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BS

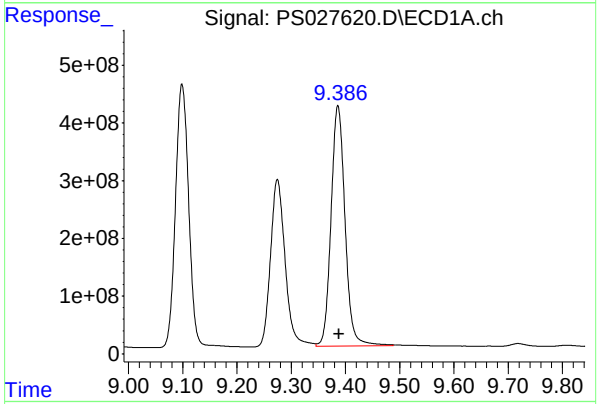
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



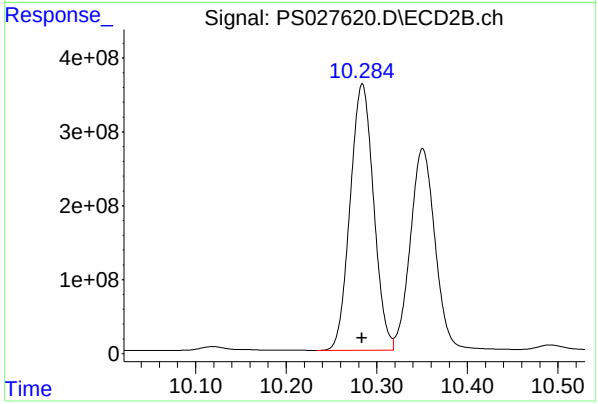
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: 0.000 min
Response: 6627185867
Conc: 502.08 ng/ml



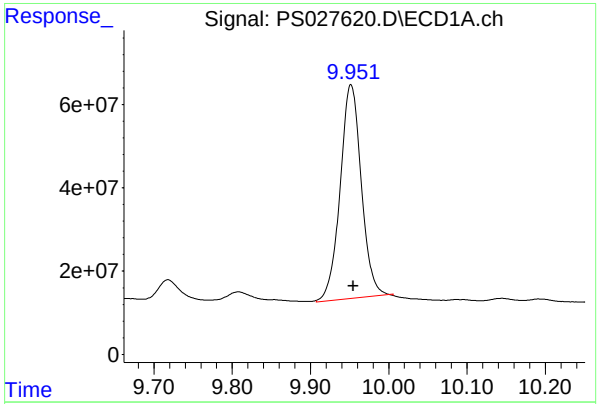
#12 2,4,5-T

R.T.: 9.386 min
Delta R.T.: -0.003 min
Response: 7466046458
Conc: 496.90 ng/ml m



#12 2,4,5-T

R.T.: 10.284 min
Delta R.T.: 0.000 min
Response: 6495138893
Conc: 499.06 ng/ml



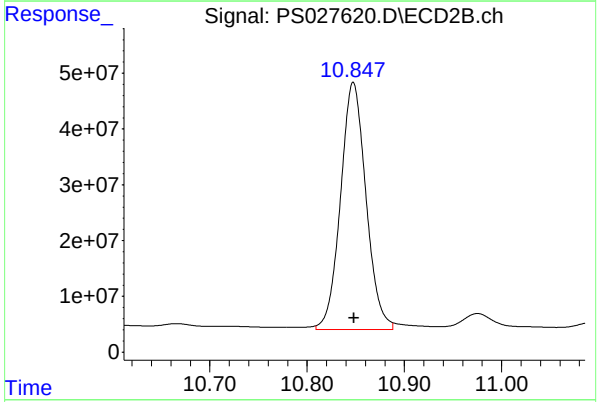
#13 2,4-DB

R.T.: 9.951 min
Delta R.T.: -0.004 mi
Response: 964479128
Conc: 453.21 ng/m

Instrument :
ECD_S
ClientSampleId :
PB163250BS

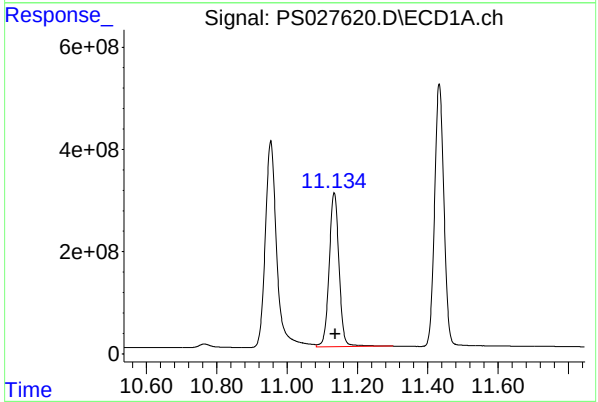
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



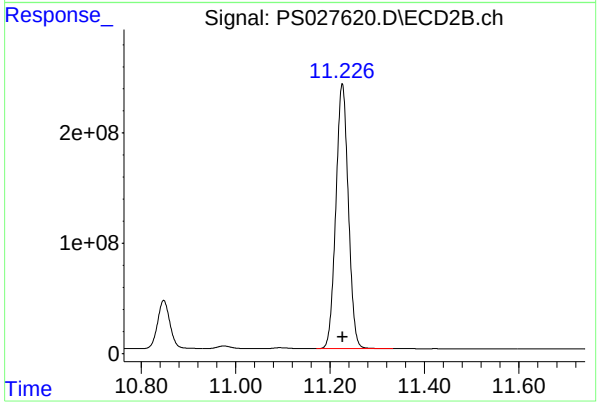
#13 2,4-DB

R.T.: 10.847 min
Delta R.T.: -0.001 min
Response: 806586621
Conc: 496.34 ng/ml m



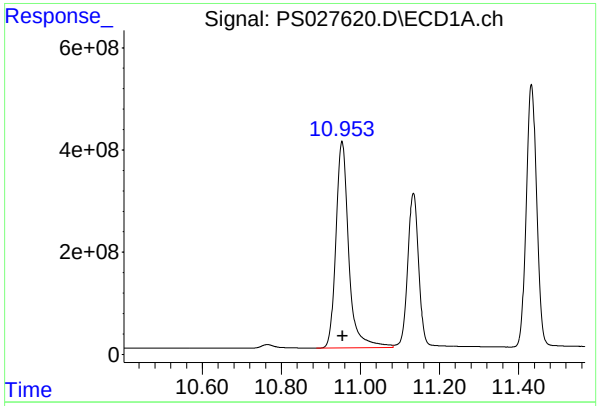
#14 DINOSEB

R.T.: 11.134 min
Delta R.T.: -0.003 min
Response: 5876594243
Conc: 532.62 ng/ml



#14 DINOSEB

R.T.: 11.226 min
Delta R.T.: 0.000 min
Response: 4398564950
Conc: 536.34 ng/ml



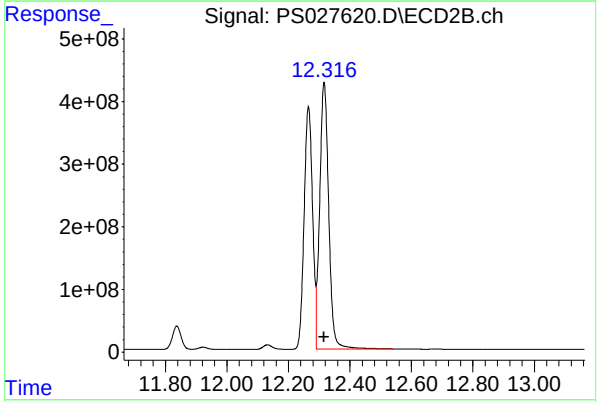
#15 Picloram

R.T.: 10.953 min
Delta R.T.: -0.002 min
Response: 9116398922
Conc: 468.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BS

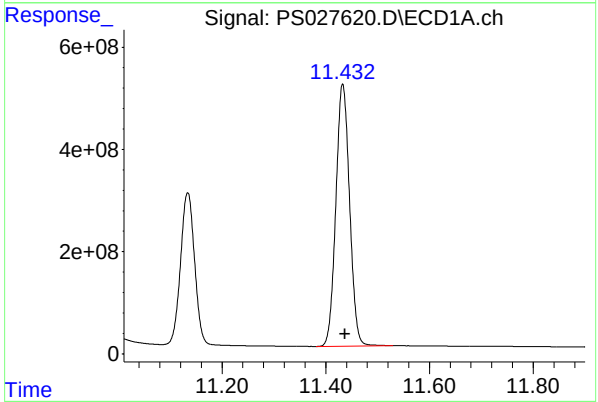
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



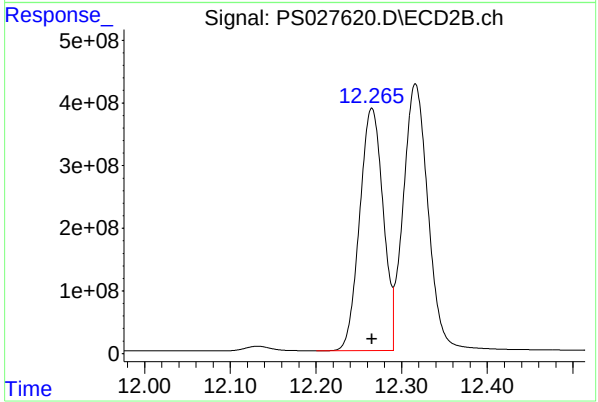
#15 Picloram

R.T.: 12.316 min
Delta R.T.: 0.000 min
Response: 8692935438
Conc: 471.46 ng/ml



#16 DCPA

R.T.: 11.433 min
Delta R.T.: -0.004 min
Response: 9420551139
Conc: 510.00 ng/ml



#16 DCPA

R.T.: 12.265 min
Delta R.T.: 0.000 min
Response: 7375910921
Conc: 513.54 ng/ml

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163250BSD	SDG No.:	P3845
Lab Sample ID:	PB163250BSD	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
PS027621.D	1	09/10/24 08:55	09/10/24 18:23	PB163250

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.49		0.047	0.20	ug/L
1918-00-9	DICAMBA	5.00		0.42	2.00	ug/L
75-99-0	DALAPON	4.90		1.10	2.00	ug/L
94-74-6	MCPA	0.48		0.052	0.20	ug/L
120-36-5	DICHLORPROP	5.10		0.43	2.00	ug/L
94-75-7	2,4-D	5.00		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.20		0.45	2.00	ug/L
93-76-5	2,4,5-T	5.20		0.50	2.00	ug/L
94-82-6	2,4-DB	5.00		0.57	2.00	ug/L
88-85-7	DINOSEB	5.50		0.55	2.00	ug/L
87-86-5	Pentachlorophenol	5.30		0.50	2.00	ug/L
100-02-7	4-Nitrophenol	4.90		0.53	2.00	ug/L
1918-02-1	PICLORAM	4.80		0.50	2.00	ug/L
1861-32-1	DCPA	5.30		0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	5.00		0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	538		39 - 175	108%	SPK: 500

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163250BSD	SDG No.:	P3845
Lab Sample ID:	PB163250BSD	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
PS027621.D	1	09/10/24 08:55	09/10/24 18:23	PB163250

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\PS091024\
Data File : PS027621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 18:23
Operator : AR\AJ
Sample : PB163250BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB163250BSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 01:17:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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	7.146	7.730	1344.1E6	1033.9E6	530.045m	537.855
	Target Compounds						
1) T	Dalapon	2.585	2.689	1493.3E6	1557.2E6	485.881	448.793m
2) T	3,5-DICHL...	6.332	6.687	2011.1E6	1406.4E6	500.874	497.141
3) T	4-Nitroph...	6.944	7.260	692.2E6	628.0E6	464.389m	487.469
5) T	DICAMBA	7.327	7.927	5461.9E6	4485.2E6	502.248	504.981
6) T	MCPP	7.504	8.027	361.7E6	281.7E6	48.557	47.543
7) T	MCPA	7.649	8.270	476.3E6	413.9E6	47.484	48.228
8) T	DICHLORPROP	8.016	8.638	1343.6E6	1106.1E6	498.211	509.251
9) T	2,4-D	8.241	8.967	1421.7E6	1179.9E6	501.092	486.964m
10) T	Pentachlo...	8.529	9.493	21006.6E6	17355.6E6	529.048	525.307
11) T	2,4,5-TP ...	9.098	9.866	7974.7E6	6764.0E6	515.651	512.437
12) T	2,4,5-T	9.385	10.284	7750.3E6	6587.9E6	515.817	506.179
13) T	2,4-DB	9.951	10.848	1046.2E6	805.1E6	491.615	495.408
14) T	DINOSEB	11.133	11.226	6020.1E6	4461.4E6	545.625	544.005
15) T	Picloram	10.952	12.316	9371.2E6	8915.6E6	481.666	483.535
16) T	DCPA	11.433	12.266	9710.8E6	7541.5E6	525.715	525.073

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

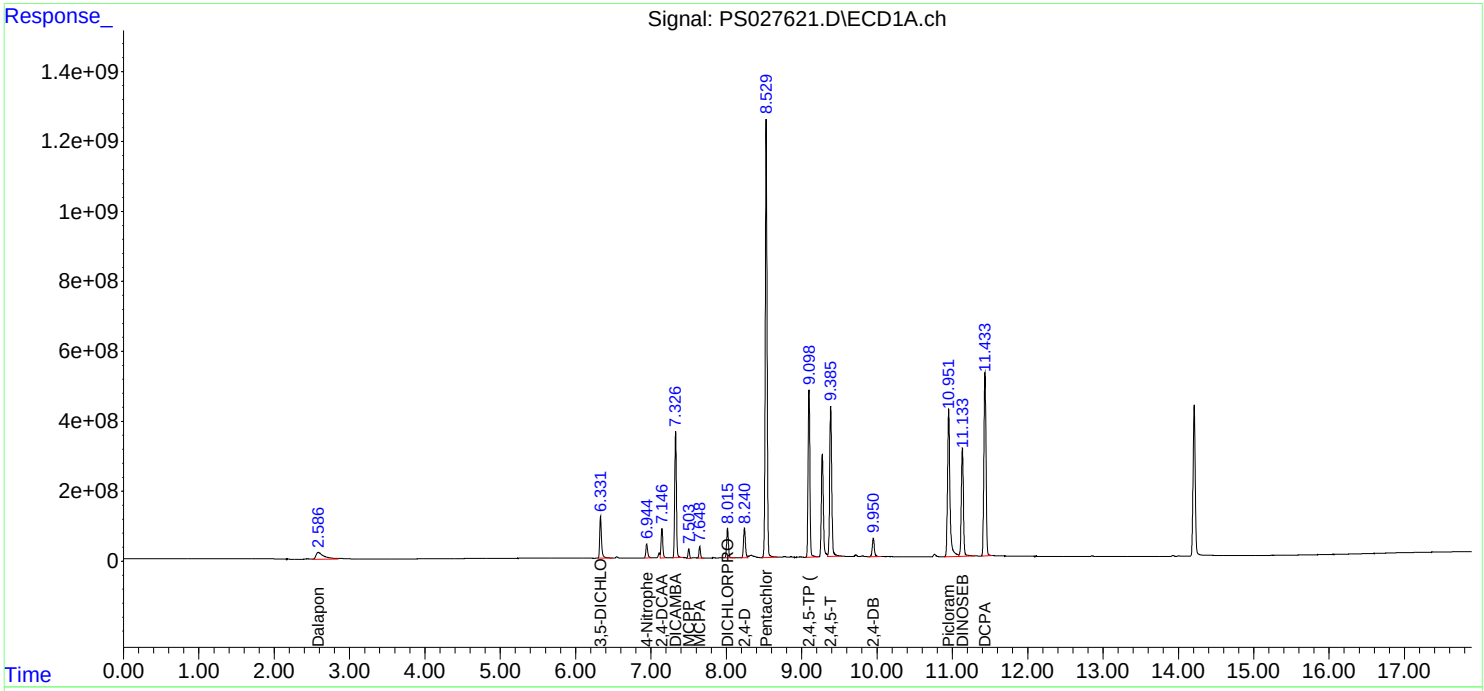
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS091024\
Data File : PS027621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 18:23
Operator : AR\AJ
Sample : PB163250BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

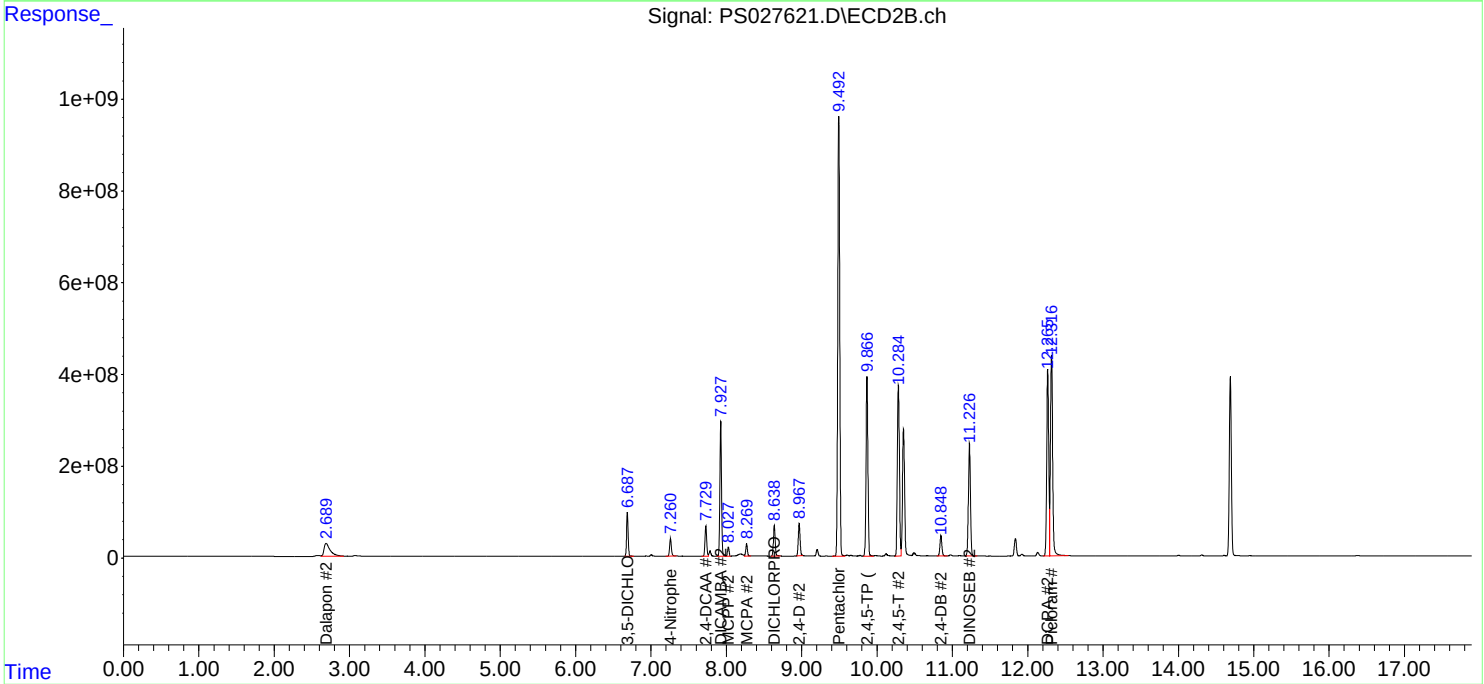
Instrument :
ECD_S
ClientSampleId :
PB163250BSD

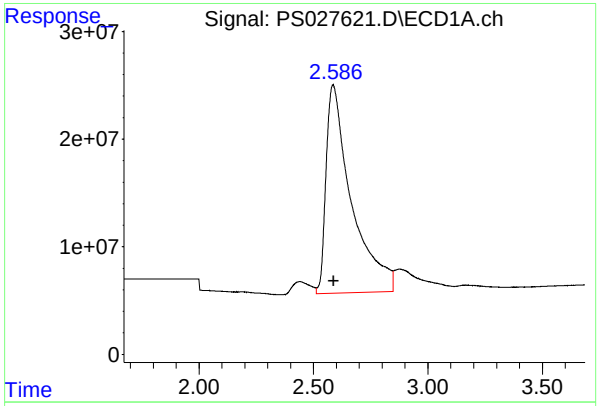
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 01:17:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090324.M
Quant Title : 8080.M
QLast Update : Tue Sep 03 15:23:07 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







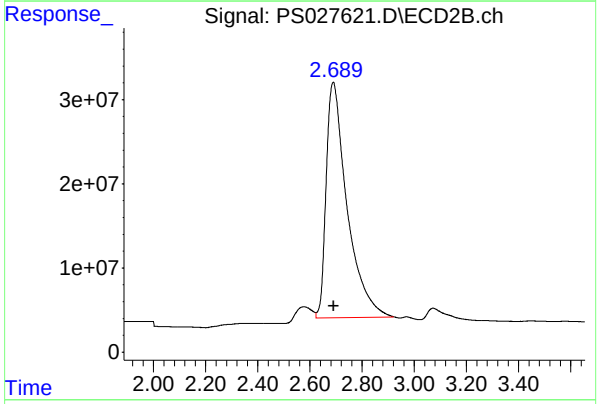
#1 Dalapon

R.T.: 2.585 min
Delta R.T.: -0.003 min
Response: 1493343708
Conc: 485.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BSD

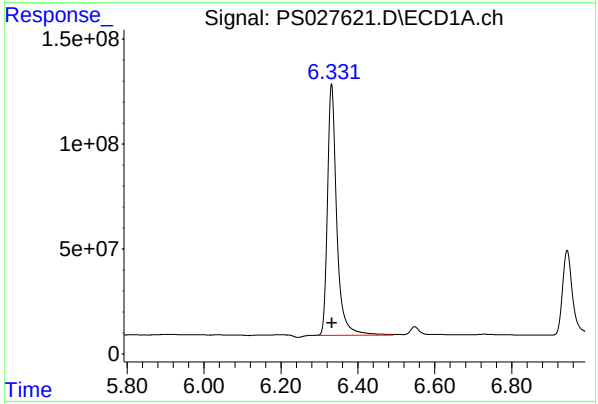
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



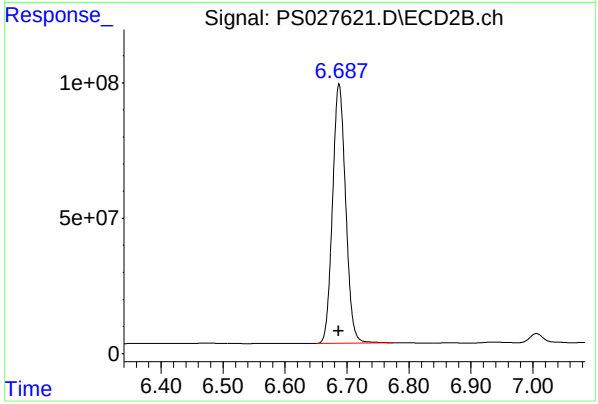
#1 Dalapon

R.T.: 2.689 min
Delta R.T.: -0.002 min
Response: 1557241698
Conc: 448.79 ng/ml m



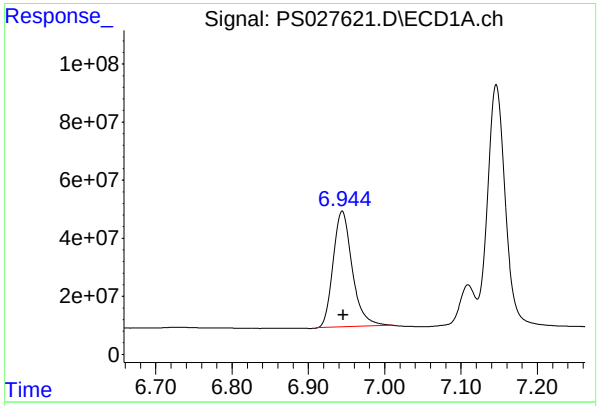
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.332 min
Delta R.T.: -0.002 min
Response: 2011136928
Conc: 500.87 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.687 min
Delta R.T.: 0.000 min
Response: 1406366230
Conc: 497.14 ng/ml



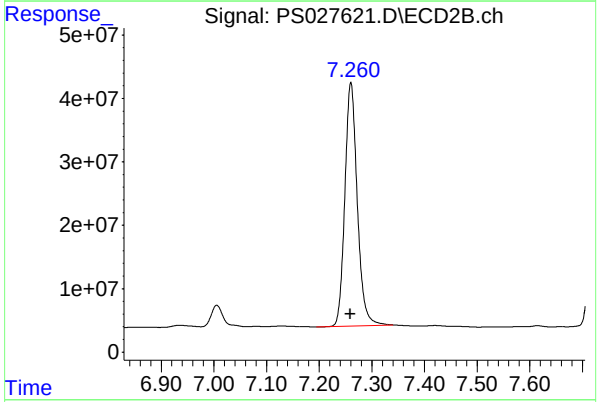
#3 4-Nitrophenol

R.T.: 6.944 min
Delta R.T.: -0.002 mi
Response: 692232683
Conc: 464.39 ng/m

Instrument :
ECD_S
ClientSampleId :
PB163250BSD

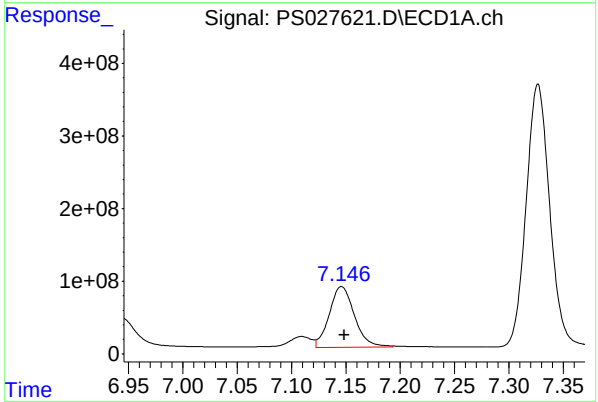
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



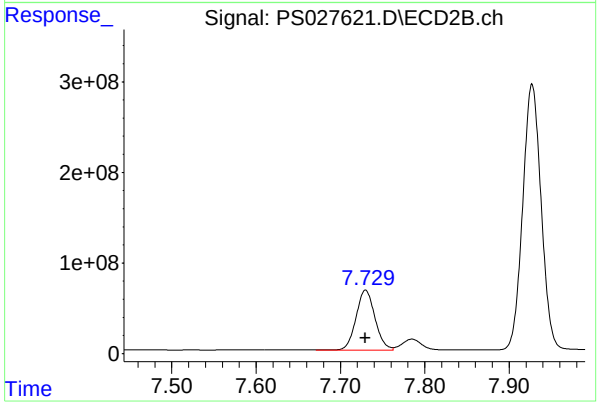
#3 4-Nitrophenol

R.T.: 7.260 min
Delta R.T.: 0.000 min
Response: 628003915
Conc: 487.47 ng/ml



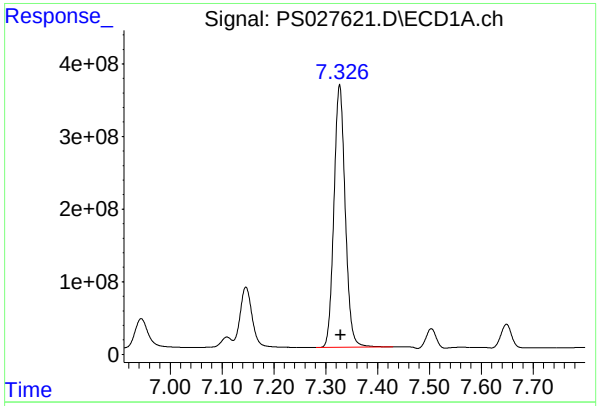
#4 2,4-DCAA

R.T.: 7.146 min
Delta R.T.: -0.003 min
Response: 1344097383
Conc: 530.05 ng/ml m



#4 2,4-DCAA

R.T.: 7.730 min
Delta R.T.: 0.000 min
Response: 1033932940
Conc: 537.85 ng/ml



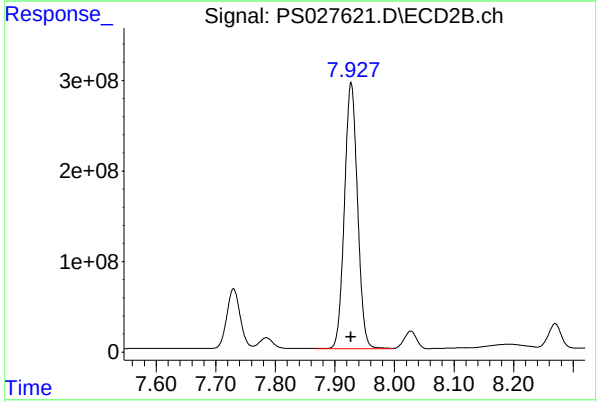
#5 DICAMBA

R.T.: 7.327 min
Delta R.T.: -0.002 min
Response: 5461946761
Conc: 502.25 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BSD

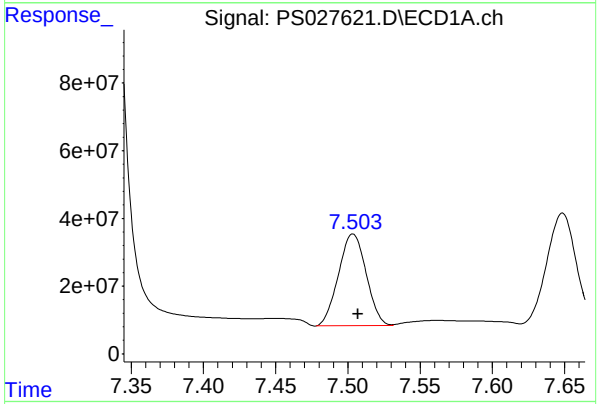
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



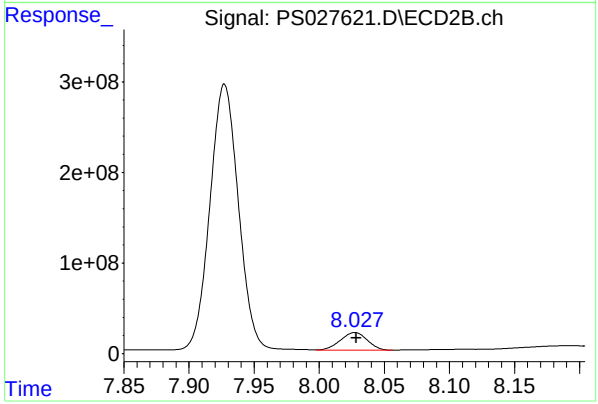
#5 DICAMBA

R.T.: 7.927 min
Delta R.T.: 0.000 min
Response: 4485176636
Conc: 504.98 ng/ml



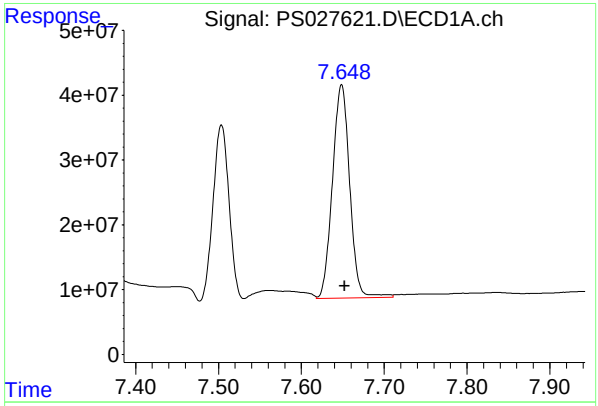
#6 MCPP

R.T.: 7.504 min
Delta R.T.: -0.004 min
Response: 361668033
Conc: 48.56 ug/ml



#6 MCPP

R.T.: 8.027 min
Delta R.T.: -0.001 min
Response: 281739527
Conc: 47.54 ug/ml



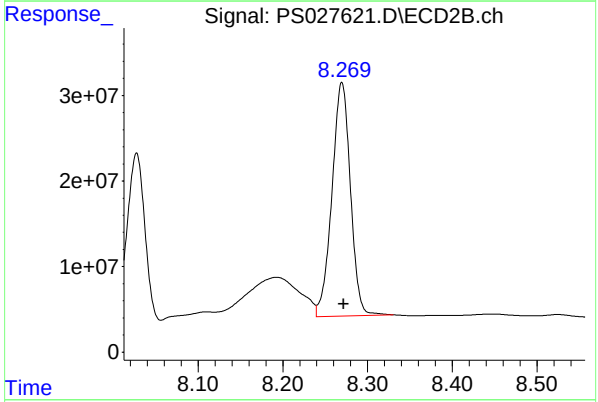
#7 MCPA

R.T.: 7.649 min
Delta R.T.: -0.004 min
Response: 476339201
Conc: 47.48 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BSD

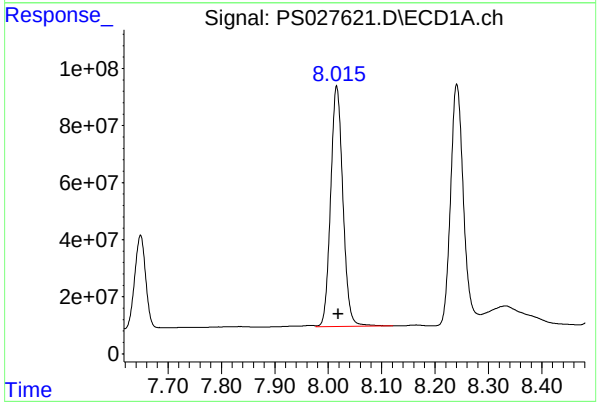
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



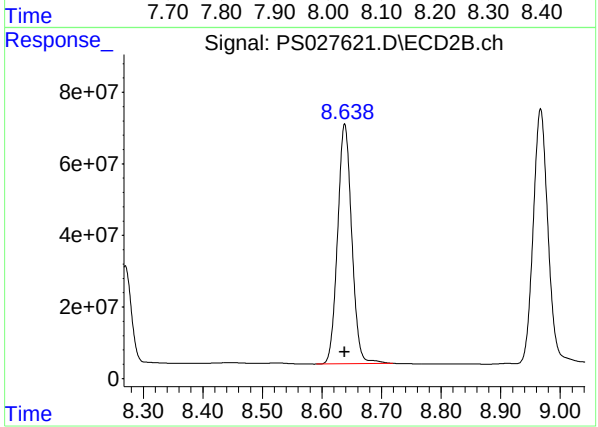
#7 MCPA

R.T.: 8.270 min
Delta R.T.: -0.002 min
Response: 413857106
Conc: 48.23 ug/ml



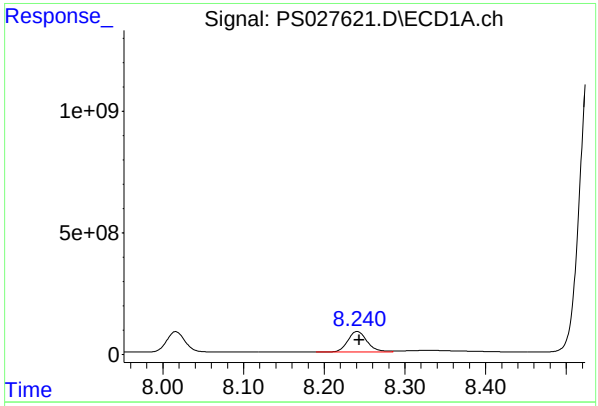
#8 DICHLORPROP

R.T.: 8.016 min
Delta R.T.: -0.003 min
Response: 1343562300
Conc: 498.21 ng/ml



#8 DICHLORPROP

R.T.: 8.638 min
Delta R.T.: 0.000 min
Response: 1106059400
Conc: 509.25 ng/ml



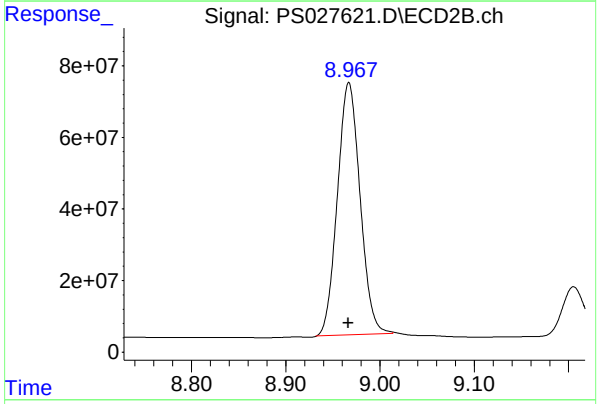
#9 2,4-D

R.T.: 8.241 min
Delta R.T.: -0.003 mi
Response: 1421662544
Conc: 501.09 ng/m

Instrument :
ECD_S
ClientSampleId :
PB163250BSD

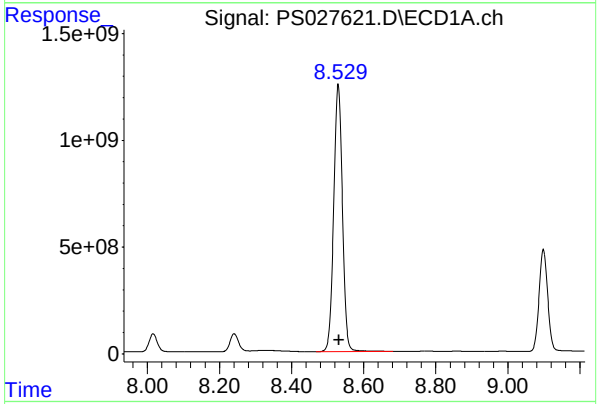
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



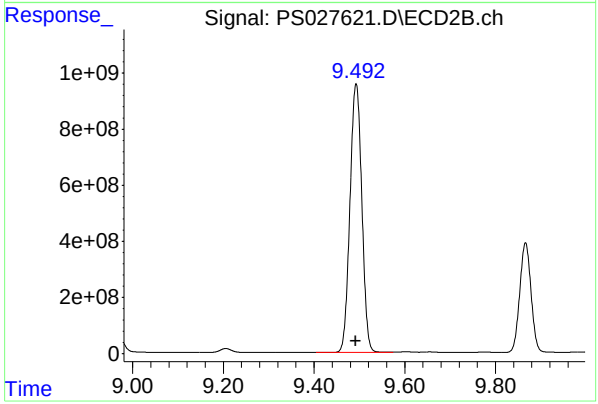
#9 2,4-D

R.T.: 8.967 min
Delta R.T.: 0.000 min
Response: 1179873115
Conc: 486.96 ng/ml m



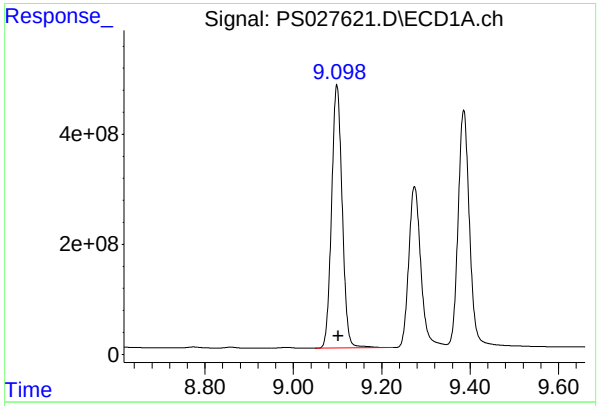
#10 Pentachlorophenol

R.T.: 8.529 min
Delta R.T.: -0.003 min
Response: 21006579408
Conc: 529.05 ng/ml



#10 Pentachlorophenol

R.T.: 9.493 min
Delta R.T.: 0.000 min
Response: 17355565258
Conc: 525.31 ng/ml



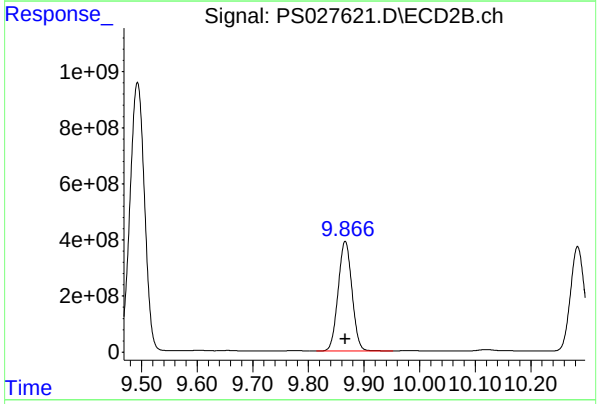
#11 2,4,5-TP (SILVEX)

R.T.: 9.098 min
Delta R.T.: -0.004 min
Response: 7974741362
Conc: 515.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BSD

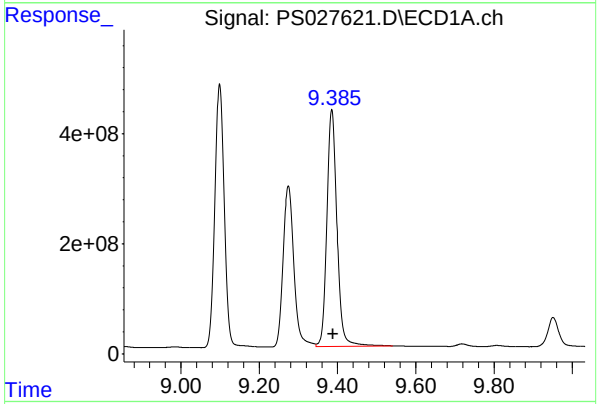
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



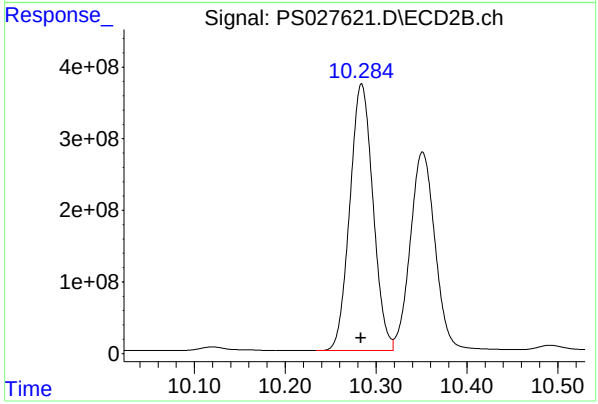
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: 0.000 min
Response: 6763962663
Conc: 512.44 ng/ml



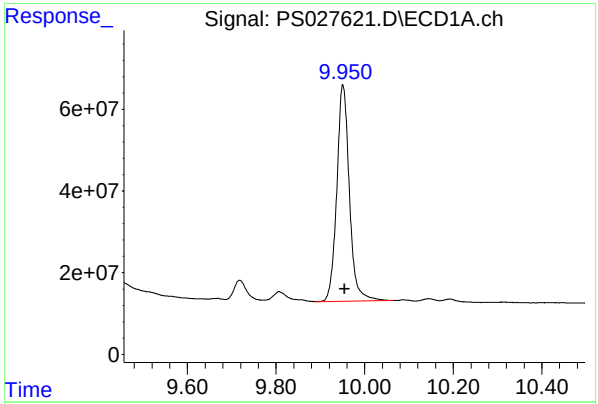
#12 2,4,5-T

R.T.: 9.385 min
Delta R.T.: -0.003 min
Response: 7750270758
Conc: 515.82 ng/ml



#12 2,4,5-T

R.T.: 10.284 min
Delta R.T.: 0.000 min
Response: 6587859845
Conc: 506.18 ng/ml



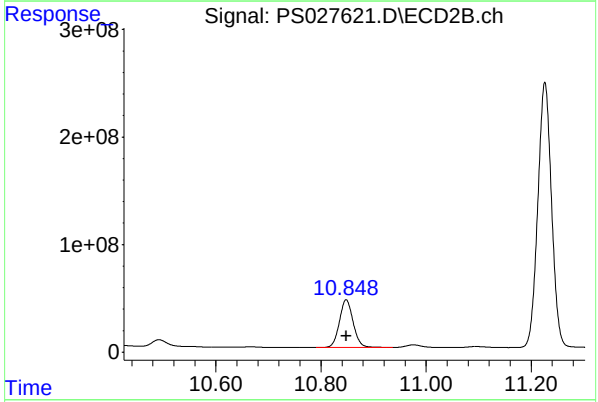
#13 2,4-DB

R.T.: 9.951 min
Delta R.T.: -0.004 min
Response: 1046209591
Conc: 491.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BSD

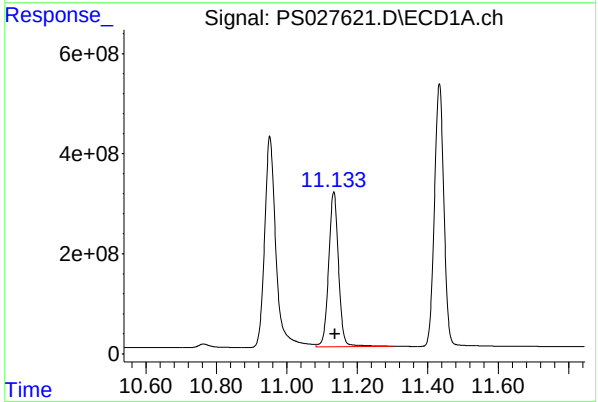
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



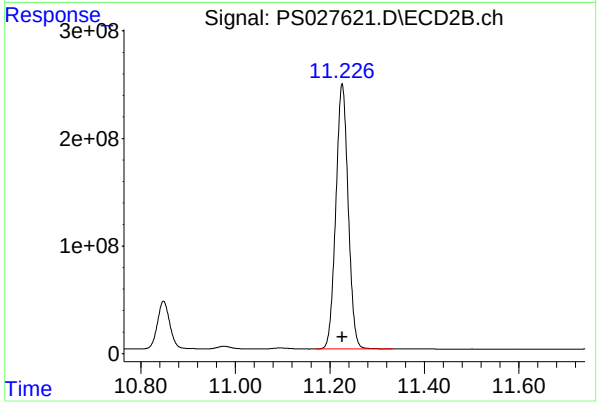
#13 2,4-DB

R.T.: 10.848 min
Delta R.T.: 0.000 min
Response: 805070913
Conc: 495.41 ng/ml



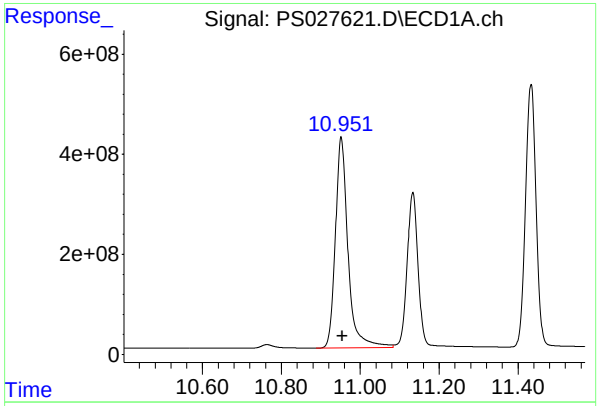
#14 DINOSEB

R.T.: 11.133 min
Delta R.T.: -0.004 min
Response: 6020103514
Conc: 545.63 ng/ml



#14 DINOSEB

R.T.: 11.226 min
Delta R.T.: 0.000 min
Response: 4461433730
Conc: 544.00 ng/ml



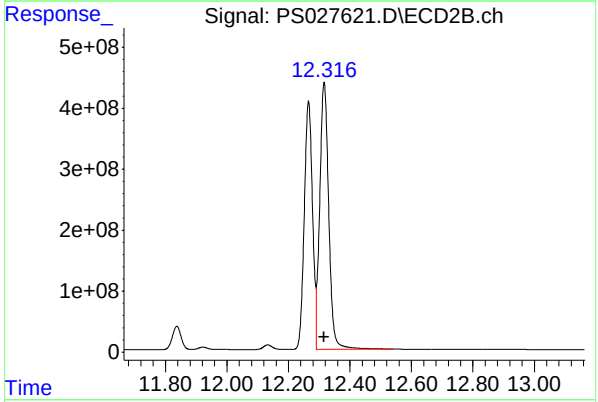
#15 Picloram

R.T.: 10.952 min
Delta R.T.: -0.003 min
Response: 9371210197
Conc: 481.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB163250BSD

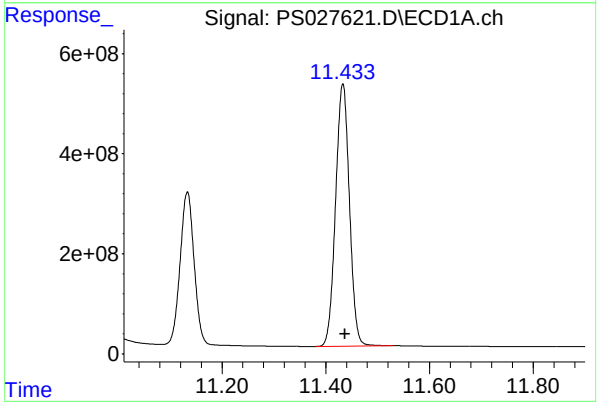
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



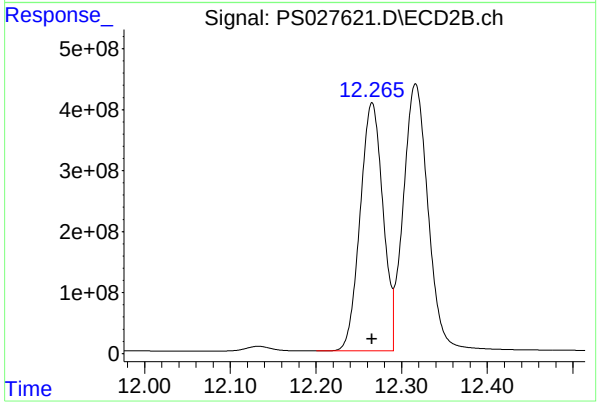
#15 Picloram

R.T.: 12.316 min
Delta R.T.: 0.000 min
Response: 8915600821
Conc: 483.54 ng/ml



#16 DCPA

R.T.: 11.433 min
Delta R.T.: -0.004 min
Response: 9710780365
Conc: 525.71 ng/ml



#16 DCPA

R.T.: 12.266 min
Delta R.T.: 0.000 min
Response: 7541492001
Conc: 525.07 ng/ml

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

Manual Integration Report

Sequence:	PS090324	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS027598.D	3,5-DICHLOROBENZOIC ACID	Abdul	9/4/2024 1:16:03 PM	Ankita	9/4/2024 2:04:10	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PS091024	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS027618.D	2,4,5-TP (SILVEX)	Abdul	9/11/2024 9:33:59 AM	Ankita	9/11/2024 11:41:00	Peak Integrated by Software
HSTDCCC750	PS027618.D	2,4-DCAA	Abdul	9/11/2024 9:33:59 AM	Ankita	9/11/2024 11:41:00	Peak Integrated by Software
HSTDCCC750	PS027618.D	Dalapon	Abdul	9/11/2024 9:33:59 AM	Ankita	9/11/2024 11:41:00	Peak Integrated by Software
HSTDCCC750	PS027618.D	DICAMBA	Abdul	9/11/2024 9:33:59 AM	Ankita	9/11/2024 11:41:00	Peak Integrated by Software
PB163250BS	PS027620.D	2,4,5-T	Abdul	9/11/2024 9:34:02 AM	Ankita	9/11/2024 11:41:01	Peak Integrated by Software
PB163250BS	PS027620.D	2,4,5-TP (SILVEX)	Abdul	9/11/2024 9:34:02 AM	Ankita	9/11/2024 11:41:01	Peak Integrated by Software
PB163250BS	PS027620.D	2,4-DB	Abdul	9/11/2024 9:34:02 AM	Ankita	9/11/2024 11:41:01	Peak Integrated by Software
PB163250BS	PS027620.D	2,4-DB #2	Abdul	9/11/2024 9:34:02 AM	Ankita	9/11/2024 11:41:01	Peak Integrated by Software
PB163250BS	PS027620.D	3,5-DICHLOROBENZOIC ACID	Abdul	9/11/2024 9:34:02 AM	Ankita	9/11/2024 11:41:01	Peak Integrated by Software
PB163250BS	PS027620.D	Pentachlorophenol	Abdul	9/11/2024 9:34:02 AM	Ankita	9/11/2024 11:41:01	Peak Integrated by Software
PB163250BSD	PS027621.D	2,4-D #2	Abdul	9/11/2024 9:34:05 AM	Ankita	9/11/2024 11:41:03	Peak Integrated by Software
PB163250BSD	PS027621.D	2,4-DCAA	Abdul	9/11/2024 9:34:05 AM	Ankita	9/11/2024 11:41:03	Peak Integrated by Software
PB163250BSD	PS027621.D	4-Nitrophenol	Abdul	9/11/2024 9:34:05 AM	Ankita	9/11/2024 11:41:03	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PS091024	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB163250BSD	PS027621.D	Dalapon #2	Abdul	9/11/2024 9:34:05 AM	Ankita	9/11/2024 11:41:03	Peak Integrated by Software
HSTDCCC750	PS027630.D	2,4-DCAA	Abdul	9/11/2024 9:34:25 AM	Ankita	9/11/2024 11:41:12	Peak Integrated by Software
HSTDCCC750	PS027630.D	DICAMBA #2	Abdul	9/11/2024 9:34:25 AM	Ankita	9/11/2024 11:41:12	Peak Integrated by Software
HSTDCCC750	PS027630.D	DICHLORPROP	Abdul	9/11/2024 9:34:25 AM	Ankita	9/11/2024 11:41:12	Peak Integrated by Software
HSTDCCC750	PS027630.D	DINOSEB	Abdul	9/11/2024 9:34:25 AM	Ankita	9/11/2024 11:41:12	Peak Integrated by Software
I.BLK	PS027643.D	2,4-DCAA #2	Abdul	9/11/2024 9:35:15 AM	Ankita	9/11/2024 11:41:33	Peak Integrated by Software
HSTDCCC750	PS027644.D	2,4,5-TP (SILVEX)	Abdul	9/11/2024 9:35:32 AM	Ankita	9/11/2024 11:41:35	Peak Integrated by Software
HSTDCCC750	PS027644.D	2,4-DCAA	Abdul	9/11/2024 9:35:32 AM	Ankita	9/11/2024 11:41:35	Peak Integrated by Software
HSTDCCC750	PS027644.D	Pentachlorophenol	Abdul	9/11/2024 9:35:32 AM	Ankita	9/11/2024 11:41:35	Peak Integrated by Software

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

Manual Integration Report

Sequence:	ps091224	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS027653.D	2,4-DCAA	Abdul	9/15/2024 7:48:08 PM	Ankita	9/16/2024 10:13:46	Peak Integrated by Software
HSTDICV750	PS027658.D	2,4-DCAA #2	Abdul	9/15/2024 7:48:12 PM	Ankita	9/16/2024 10:13:48	Peak Integrated by Software

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS090324

Review By	Abdul	Review On	9/4/2024 8:32:01 AM		
Supervise By	Ankita	Supervise On	9/4/2024 2:04:28 PM		
SubDirectory	PS090324	HP Acquire Method		HP Processing Method	ps090324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS027579.D	03 Sep 2024 12:38	AR\AJ	Ok
2	I.BLK	PS027580.D	03 Sep 2024 13:02	AR\AJ	Ok
3	HSTDICC200	PS027581.D	03 Sep 2024 13:26	AR\AJ	Ok
4	HSTDICC500	PS027582.D	03 Sep 2024 13:51	AR\AJ	Ok
5	HSTDICC750	PS027583.D	03 Sep 2024 14:14	AR\AJ	Ok
6	HSTDICC1000	PS027584.D	03 Sep 2024 14:38	AR\AJ	Ok
7	HSTDICC1500	PS027585.D	03 Sep 2024 15:03	AR\AJ	Ok
8	HSTDICV750	PS027586.D	03 Sep 2024 15:27	AR\AJ	Ok
9	I.BLK	PS027587.D	03 Sep 2024 15:51	AR\AJ	Ok
10	HSTDCCC750	PS027588.D	03 Sep 2024 16:15	AR\AJ	Ok
11	P3735-07RE	PS027589.D	03 Sep 2024 16:40	AR\AJ	Confirms
12	I.BLK	PS027590.D	03 Sep 2024 17:04	AR\AJ	Ok
13	HSTDCCC750	PS027591.D	03 Sep 2024 17:28	AR\AJ	Ok
14	PB163103BL	PS027592.D	03 Sep 2024 17:52	AR\AJ	Ok,M
15	PB163103BS	PS027593.D	03 Sep 2024 18:17	AR\AJ	Ok,M
16	P3773-02	PS027594.D	03 Sep 2024 18:41	AR\AJ	Ok
17	P3773-02MS	PS027595.D	03 Sep 2024 19:05	AR\AJ	Ok,M
18	P3773-02MSD	PS027596.D	03 Sep 2024 19:29	AR\AJ	Ok,M
19	I.BLK	PS027597.D	03 Sep 2024 19:54	AR\AJ	Ok
20	HSTDCCC750	PS027598.D	03 Sep 2024 20:18	AR\AJ	Ok,M
21	LCS-1	PS027599.D	03 Sep 2024 20:42	AR\AJ	Not Ok

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS090324

Review By	Abdul	Review On	9/4/2024 8:32:01 AM		
Supervise By	Ankita	Supervise On	9/4/2024 2:04:28 PM		
SubDirectory	PS090324	HP Acquire Method		HP Processing Method	ps090324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	LCS-2	PS027600.D	03 Sep 2024 21:07	AR\AJ	Not Ok
23	LCS-3	PS027601.D	03 Sep 2024 21:31	AR\AJ	Not Ok
24	I.BLK	PS027602.D	03 Sep 2024 21:55	AR\AJ	Ok
25	HSTDCCC750	PS027603.D	03 Sep 2024 22:19	AR\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS091024

Review By	Abdul	Review On	9/11/2024 9:37:21 AM		
Supervise By	Ankita	Supervise On	9/11/2024 11:41:54 AM		
SubDirectory	PS091024	HP Acquire Method		HP Processing Method	ps090324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS027616.D	10 Sep 2024 13:30	AR\AJ	Ok
2	I.BLK	PS027617.D	10 Sep 2024 13:54	AR\AJ	Ok
3	HSTDCCC750	PS027618.D	10 Sep 2024 14:18	AR\AJ	Ok,M
4	PB163250BL	PS027619.D	10 Sep 2024 17:34	AR\AJ	Ok
5	PB163250BS	PS027620.D	10 Sep 2024 17:58	AR\AJ	Ok,M
6	PB163250BSD	PS027621.D	10 Sep 2024 18:23	AR\AJ	Ok,M
7	P3853-01	PS027622.D	10 Sep 2024 18:47	AR\AJ	Ok
8	PB163247BL	PS027623.D	10 Sep 2024 19:12	AR\AJ	Ok,M
9	PB163247BS	PS027624.D	10 Sep 2024 19:36	AR\AJ	Ok,M
10	P3892-01	PS027625.D	10 Sep 2024 20:00	AR\AJ	Ok,M
11	P3905-03	PS027626.D	10 Sep 2024 20:25	AR\AJ	Ok
12	P3905-05	PS027627.D	10 Sep 2024 20:49	AR\AJ	ReRun
13	P3906-01	PS027628.D	10 Sep 2024 21:13	AR\AJ	Ok
14	I.BLK	PS027629.D	10 Sep 2024 21:37	AR\AJ	Ok
15	HSTDCCC750	PS027630.D	10 Sep 2024 22:02	AR\AJ	Ok,M
16	P3906-07	PS027631.D	10 Sep 2024 23:14	AR\AJ	Ok,M
17	P3906-13	PS027632.D	10 Sep 2024 23:39	AR\AJ	Ok,M
18	P3907-01	PS027633.D	11 Sep 2024 00:03	AR\AJ	Ok,M
19	P3907-07	PS027634.D	11 Sep 2024 00:27	AR\AJ	Ok,M
20	P3912-01	PS027635.D	11 Sep 2024 00:52	AR\AJ	Ok
21	P3857-01	PS027636.D	11 Sep 2024 01:16	AR\AJ	Ok,M

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS091024

Review By	Abdul	Review On	9/11/2024 9:37:21 AM		
Supervise By	Ankita	Supervise On	9/11/2024 11:41:54 AM		
SubDirectory	PS091024	HP Acquire Method		HP Processing Method	ps090324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3857-04	PS027637.D	11 Sep 2024 01:40	AR\AJ	Ok,M
23	P3857-07	PS027638.D	11 Sep 2024 02:05	AR\AJ	Ok,M
24	P3857-10	PS027639.D	11 Sep 2024 02:29	AR\AJ	Ok,M
25	P3857-10MS	PS027640.D	11 Sep 2024 02:53	AR\AJ	Ok,M
26	P3857-10MSD	PS027641.D	11 Sep 2024 03:17	AR\AJ	Ok,M
27	P3905-01	PS027642.D	11 Sep 2024 03:41	AR\AJ	Ok,M
28	I.BLK	PS027643.D	11 Sep 2024 04:06	AR\AJ	Ok,M
29	HSTDCCC750	PS027644.D	11 Sep 2024 04:30	AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS091224

Review By	Abdul	Review On	9/15/2024 7:48:35 PM		
Supervise By	Ankita	Supervise On	9/16/2024 10:13:53 AM		
SubDirectory	PS091224	HP Acquire Method		HP Processing Method	ps091224 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS027651.D	12 Sep 2024 20:36	AR\AJ	Ok
2	I.BLK	PS027652.D	12 Sep 2024 21:00	AR\AJ	Ok
3	HSTDICC200	PS027653.D	12 Sep 2024 21:24	AR\AJ	Ok,M
4	HSTDICC500	PS027654.D	12 Sep 2024 21:48	AR\AJ	Ok
5	HSTDICC750	PS027655.D	12 Sep 2024 22:12	AR\AJ	Ok
6	HSTDICC1000	PS027656.D	12 Sep 2024 22:35	AR\AJ	Ok
7	HSTDICC1500	PS027657.D	12 Sep 2024 22:59	AR\AJ	Ok
8	HSTDICV750	PS027658.D	12 Sep 2024 23:23	AR\AJ	Ok,M
9	I.BLK	PS027659.D	12 Sep 2024 23:47	AR\AJ	Ok
10	HSTDCCC750	PS027660.D	13 Sep 2024 00:11	AR\AJ	Ok
11	P3845-17	PS027661.D	13 Sep 2024 00:35	AR\AJ	Ok
12	I.BLK	PS027662.D	13 Sep 2024 00:59	AR\AJ	Ok
13	HSTDCCC750	PS027663.D	13 Sep 2024 01:22	AR\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS090324

Review By	Abdul	Review On	9/4/2024 8:32:01 AM		
Supervise By	Ankita	Supervise On	9/4/2024 2:04:28 PM		
SubDirectory	PS090324	HP Acquire Method		HP Processing Method	ps090324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS027579.D	03 Sep 2024 12:38		AR\AJ	Ok
2	I.BLK	I.BLK	PS027580.D	03 Sep 2024 13:02		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS027581.D	03 Sep 2024 13:26		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS027582.D	03 Sep 2024 13:51		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS027583.D	03 Sep 2024 14:14		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS027584.D	03 Sep 2024 14:38		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS027585.D	03 Sep 2024 15:03		AR\AJ	Ok
8	HSTDICV750	ICVPS090324	PS027586.D	03 Sep 2024 15:27		AR\AJ	Ok
9	I.BLK	I.BLK	PS027587.D	03 Sep 2024 15:51		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS027588.D	03 Sep 2024 16:15		AR\AJ	Ok
11	P3735-07RE	WC-13RE	PS027589.D	03 Sep 2024 16:40	2,4-DCAA high in 1st column	AR\AJ	Confirms
12	I.BLK	I.BLK	PS027590.D	03 Sep 2024 17:04		AR\AJ	Ok
13	HSTDCCC750	HSTDCCC750	PS027591.D	03 Sep 2024 17:28		AR\AJ	Ok
14	PB163103BL	PB163103BL	PS027592.D	03 Sep 2024 17:52		AR\AJ	Ok,M
15	PB163103BS	PB163103BS	PS027593.D	03 Sep 2024 18:17		AR\AJ	Ok,M
16	P3773-02	AU-06-082824	PS027594.D	03 Sep 2024 18:41		AR\AJ	Ok
17	P3773-02MS	AU-06-082824MS	PS027595.D	03 Sep 2024 19:05	Some compound recovery fail	AR\AJ	Ok,M
18	P3773-02MSD	AU-06-082824MSD	PS027596.D	03 Sep 2024 19:29	Some compound recovery fail	AR\AJ	Ok,M

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS090324

Review By	Abdul	Review On	9/4/2024 8:32:01 AM		
Supervise By	Ankita	Supervise On	9/4/2024 2:04:28 PM		
SubDirectory	PS090324	HP Acquire Method		HP Processing Method	ps090324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	I.BLK	I.BLK	PS027597.D	03 Sep 2024 19:54		AR\AJ	Ok
20	HSTDCCC750	HSTDCCC750	PS027598.D	03 Sep 2024 20:18		AR\AJ	Ok,M
21	LCS-1	LCS-1	PS027599.D	03 Sep 2024 20:42	Some compound recovery fail	AR\AJ	Not Ok
22	LCS-2	LCS-2	PS027600.D	03 Sep 2024 21:07	compound - 14 recovery fail	AR\AJ	Not Ok
23	LCS-3	LCS-3	PS027601.D	03 Sep 2024 21:31	Some compound recovery fail	AR\AJ	Not Ok
24	I.BLK	I.BLK	PS027602.D	03 Sep 2024 21:55		AR\AJ	Ok
25	HSTDCCC750	HSTDCCC750	PS027603.D	03 Sep 2024 22:19		AR\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS091024

Review By	Abdul	Review On	9/11/2024 9:37:21 AM		
Supervise By	Ankita	Supervise On	9/11/2024 11:41:54 AM		
SubDirectory	PS091024	HP Acquire Method		HP Processing Method	ps090324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS027616.D	10 Sep 2024 13:30		AR\AJ	Ok
2	I.BLK	I.BLK	PS027617.D	10 Sep 2024 13:54		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS027618.D	10 Sep 2024 14:18		AR\AJ	Ok,M
4	PB163250BL	PB163250BL	PS027619.D	10 Sep 2024 17:34		AR\AJ	Ok
5	PB163250BS	PB163250BS	PS027620.D	10 Sep 2024 17:58		AR\AJ	Ok,M
6	PB163250BSD	PB163250BSD	PS027621.D	10 Sep 2024 18:23		AR\AJ	Ok,M
7	P3853-01	252805	PS027622.D	10 Sep 2024 18:47		AR\AJ	Ok
8	PB163247BL	PB163247BL	PS027623.D	10 Sep 2024 19:12		AR\AJ	Ok,M
9	PB163247BS	PB163247BS	PS027624.D	10 Sep 2024 19:36		AR\AJ	Ok,M
10	P3892-01	ARS20-005	PS027625.D	10 Sep 2024 20:00		AR\AJ	Ok,M
11	P3905-03	TP-3B	PS027626.D	10 Sep 2024 20:25		AR\AJ	Ok
12	P3905-05	COMP-1	PS027627.D	10 Sep 2024 20:49	2,4-DCAA fail in 1st column	AR\AJ	ReRun
13	P3906-01	SU-701-COMP-01	PS027628.D	10 Sep 2024 21:13		AR\AJ	Ok
14	I.BLK	I.BLK	PS027629.D	10 Sep 2024 21:37		AR\AJ	Ok
15	HSTDCCC750	HSTDCCC750	PS027630.D	10 Sep 2024 22:02		AR\AJ	Ok,M
16	P3906-07	SU-701-COMP-02	PS027631.D	10 Sep 2024 23:14		AR\AJ	Ok,M
17	P3906-13	SU-701-COMP-03	PS027632.D	10 Sep 2024 23:39		AR\AJ	Ok,M
18	P3907-01	PL-701-COMP-54	PS027633.D	11 Sep 2024 00:03		AR\AJ	Ok,M

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS091024

Review By	Abdul	Review On	9/11/2024 9:37:21 AM		
Supervise By	Ankita	Supervise On	9/11/2024 11:41:54 AM		
SubDirectory	PS091024	HP Acquire Method		HP Processing Method	ps090324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3907-07	PL-701-COMP-55	PS027634.D	11 Sep 2024 00:27		AR\AJ	Ok,M
20	P3912-01	282-COMPOSITE-1	PS027635.D	11 Sep 2024 00:52		AR\AJ	Ok
21	P3857-01	WC-C1-COMP	PS027636.D	11 Sep 2024 01:16		AR\AJ	Ok,M
22	P3857-04	WC-C2-COMP	PS027637.D	11 Sep 2024 01:40		AR\AJ	Ok,M
23	P3857-07	WC-D1-COMP	PS027638.D	11 Sep 2024 02:05		AR\AJ	Ok,M
24	P3857-10	WC-D2-COMP	PS027639.D	11 Sep 2024 02:29		AR\AJ	Ok,M
25	P3857-10MS	WC-D2-COMPMS	PS027640.D	11 Sep 2024 02:53	Some compound recovery fail	AR\AJ	Ok,M
26	P3857-10MSD	WC-D2-COMPMSD	PS027641.D	11 Sep 2024 03:17	Some compound recovery fail	AR\AJ	Ok,M
27	P3905-01	TP-3A	PS027642.D	11 Sep 2024 03:41		AR\AJ	Ok,M
28	I.BLK	I.BLK	PS027643.D	11 Sep 2024 04:06		AR\AJ	Ok,M
29	HSTDCCC750	HSTDCCC750	PS027644.D	11 Sep 2024 04:30		AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS091224

Review By	Abdul	Review On	9/15/2024 7:48:35 PM		
Supervise By	Ankita	Supervise On	9/16/2024 10:13:53 AM		
SubDirectory	PS091224	HP Acquire Method		HP Processing Method	ps091224 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS027651.D	12 Sep 2024 20:36		AR\AJ	Ok
2	I.BLK	I.BLK	PS027652.D	12 Sep 2024 21:00		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS027653.D	12 Sep 2024 21:24		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS027654.D	12 Sep 2024 21:48		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS027655.D	12 Sep 2024 22:12		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS027656.D	12 Sep 2024 22:35		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS027657.D	12 Sep 2024 22:59		AR\AJ	Ok
8	HSTDICV750	ICVPS091224	PS027658.D	12 Sep 2024 23:23		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS027659.D	12 Sep 2024 23:47		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS027660.D	13 Sep 2024 00:11		AR\AJ	Ok
11	P3845-17	PT-HERB-WP	PS027661.D	13 Sep 2024 00:35		AR\AJ	Ok
12	I.BLK	I.BLK	PS027662.D	13 Sep 2024 00:59		AR\AJ	Ok
13	HSTDCCC750	HSTDCCC750	PS027663.D	13 Sep 2024 01:22		AR\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB163250

SOP ID:	M8151A-Herbicide-22				
Clean Up SOP #:	N/A			**Extraction Start Date :**	09/10/2024
Matrix :	Water			**Extraction Start Time :**	08:55
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	09/10/2024
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	16:15
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	RS
pH Strip Lot#:	E3574	**Hood ID:**	4,7	**Supervisor By :**	rajesh

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP23624
Surrogate	1.0ML	5000 PPB	PP23609
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Ether	N/A	E3370
Acidified Na2SO4	N/A	EP2503
12N H2SO4	N/A	EP2505
NAOH 6N	N/A	EP2491
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14138
Diazomethane	N/A	EP2529
Hexane	N/A	E3789
NACL	N/A	M4459
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

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

KD Bath ID:	N/A	**Envap ID:**	NE VAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/10/24	RP (Sept. Tab)	R. Patel / PCB Lab
16:20	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB163250

Analytical Method: M8151A-Herbicide-22

Concentration Date: 09/10/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB163250BL	HBLK250	Herbicide	1000	6	RUPESH	ritesh	10			SEP-6
PB163250BS	HLCS250	Herbicide	1000	6	RUPESH	ritesh	10			7
PB163250BSD	HLCSD250	Herbicide	1000	6	RUPESH	ritesh	10			8
P3845-17	PT-HERB-WP	Herbicide group1	1000	6	RUPESH	ritesh	10			9
P3853-01	252805	Herbicide	1000	6	RUPESH	ritesh	10	R		10
P3912-01	282-COMPOSITE-1	Herbicide	1000	6	RUPESH	ritesh	10	L		11

* **Extracts relinquished on the same date as received.**

9/10/24

183210 8:35

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3912 **WorkList ID :** 183324 **Department :** Extraction **Date :** 09-10-2024 08:32:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3845-17	PT-HERB-WP	Water	Herbicide group1	Cool 4 deg C	CHEM02	QA Of	09/03/2024	8151A
P3853-01	252805	Water	Herbicide	Cool 4 deg C	PSEG03	H53	09/05/2024	8151A
P3912-01	282-COMPOSITE-1	Water	Herbicide	Cool 4 deg C	PSEG03	H53	09/09/2024	8151A

293 of 343

Date/Time 09/10/24 8:50
Raw Sample Received by: RJ (Eter Lab
Raw Sample Relinquished by: JDCSM)

Date/Time 09/10/24 9:15
Raw Sample Received by: JDCSM)
Raw Sample Relinquished by: RJ (Eter Lab)

P3845-Herbicide group1

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

Prep Standard - Chemical Standard Summary

Order ID : P3845

Test : Herbicide group1

Prepbatch ID : PB163250,

Sequence ID/Qc Batch ID: PS091024,ps091224,

Standard ID :
EP2491,EP2503,EP2505,PP23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469,PP23609,PP23624,

Chemical ID :
E3370,E3551,E3554,E3657,E3754,E3772,E3788,M5037,M5039,P11179,P12618,P12661,P12707,P12780,P12781,P13174,P13175,P13176,P13177,P23457,P8828,P8901,P9004,W2606,

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3884	6 N NAOH	EP2491	06/03/2024	10/24/2024	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 06/03/2024

FROM 1000.00000ml of W2606 + 240.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
601	Acidified Sodium Sulphate 2	EP2503	07/01/2024	12/15/2024	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-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

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3883	12N H2SO4 solution	EP2505	07/01/2024	10/24/2024	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 07/01/2024

FROM 333.00000ml of M5039 + 667.00000ml of W2606 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP23609	08/08/2024	02/01/2025	Abdul Mirza	None	None	Ankita Jodhani 08/08/2024

FROM 1.25000ml of P13174 + 1.25000ml of P13175 + 1.25000ml of P13176 + 1.25000ml of P13177 + 195.00000ml of E3772 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP23624	08/26/2024	02/13/2025	Abdul Mirza	None	None	Ankita Jodhani 08/28/2024

FROM 1.25000ml of P12780 + 1.25000ml of P12781 + 47.50000ml of E3788 = Final Quantity: 50.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9244-03 / Ether, Anhydrous, Purified (cs/4x4L)	0000288039	01/17/2025	08/01/2022 / Rajesh	07/13/2022 / Rajesh	E3370

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	12/04/2024	06/04/2024 / Rajesh	05/31/2024 / Rajesh	E3754

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	22L2862006	02/01/2025	08/01/2024 / Rajesh	07/19/2024 / Rajesh	E3772

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

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)	23H1462005	04/01/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000250349	12/15/2024	02/23/2022 / mohan	09/18/2021 / mohan	M5039

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	12/17/2024	06/17/2024 / Abdul	11/01/2021 / Abdul	P11179

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32062 / Herbicide Mix, 500/8000, Standard #4 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0155055	12/17/2024	06/17/2024 / Abdul	07/03/2023 / Abdul	P12618

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32055 / Herbicide Mix, 500/8000, Standard #1 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0199693	12/17/2024	06/17/2024 / Abdul	07/14/2023 / Ankita	P12661

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	12/17/2024	06/17/2024 / Abdul	08/09/2023 / Abdul	P12707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	12/17/2024	06/17/2024 / Abdul	08/09/2023 / Abdul	P12707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	02/26/2025	08/26/2024 / Abdul	09/11/2023 / Abdul	P12780

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	02/26/2025	08/26/2024 / Abdul	09/11/2023 / Abdul	P12780

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	02/26/2025	08/26/2024 / Abdul	09/11/2023 / Abdul	P12781

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	02/26/2025	08/26/2024 / Abdul	09/11/2023 / Abdul	P12781

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0201161	02/08/2025	08/08/2024 / Abdul	01/12/2024 / Abdul	P13174

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	A0201161	02/08/2025	08/08/2024 / Abdul	01/12/2024 / Abdul	P13175

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	A0201161	02/08/2025	08/08/2024 / Abdul	01/12/2024 / Abdul	P13176

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	A0201161	02/08/2025	08/08/2024 / Abdul	01/12/2024 / Abdul	P13177

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0152705	12/17/2024	06/17/2024 / Abdul	10/11/2019 / Stephen	P9004

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Ether, Anhydrous
BAKER ANALYZED® A.C.S. Reagent
Contains BHT as a Preservative
Suitable for Fat Extraction

avantor™ | J.T.Baker®

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 ($(C_2H_5)_2O$) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C_2H_5OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H_2O_2)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titrable 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 9/13/22

E 3370

James T 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

PRODUCTOS QUIMICOS 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_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_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 foreing 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.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

Certificate of Analysis

MilliporeSigma

Date of Release: 6/9/2023

Name: 2,2,4–Trimethylpentane [Isooctane] OmniSolv®

Item No: TX1389 all size codes

Lot / Batch No: 63160

Country of Origin: Germany

Characteristic	Requirement		Results	Units
	Min.	Max.		
Assay (GC)	99.5		> 99.99	%
Capillary ECD responsive substances (as PCNB)		5	0.24	ng/L
Color (APHA)		10	< 10	
Evaporation residue		1	< 0.5	ppm
Filtered through 0.2 µm filter			Passes test	
Fluorescence (as quinine base)		250	71	ppt
Form			Clear liquid	
Infrared Spectrum			Conforms	
Refractive index (at 20 °C)			1.3915	
UV Abs. at 200 nm		1.00	0.137	AU
UV Abs. at 220 nm		0.05	0.024	AU
UV Abs. at 230 nm		0.02	0.003	AU
UV Abs. at 250 nm		0.005	0.003	AU
UV Abs. at 270 nm		0.005	0.002	AU
UV Abs. at 300 nm		0.005	0.004	AU
UV Cut–off		200	191.1	nm
Water (H2O)		0.01	0.001	%

Michael Hutchinson,

Quality Control Manager

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

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

Recd by RP on 8/9/23

E3554

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

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

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

Pellets

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

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

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

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

Additional Information

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

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

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_2SO_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 RP on 5/31/24

E3754

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 22L2862006
Manufactured Date: 2022-12-19
Expiration Date: 2025-12-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

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

Recd by RP on 7/19/24

E3772

James T Ethier

Jamie Ethier
Vice President Global Quality

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

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

Recd. by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M3033-38-33-40
no

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 0000250349
Manufactured Date: 2019/12/17
Retest Date: 2024/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO_2)	<= 2 ppm	< 2
Ammonium (NH_4)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO_3)	<= 0.2 ppm	< 0.1
Phosphate (PO_4)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000250349

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 T 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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M5037-38-33-40
no

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 0000250349
Manufactured Date: 2019/12/17
Retest Date: 2024/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO_2)	<= 2 ppm	< 2
Ammonium (NH_4)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO_3)	<= 0.2 ppm	< 0.1
Phosphate (PO_4)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000250349

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 T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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

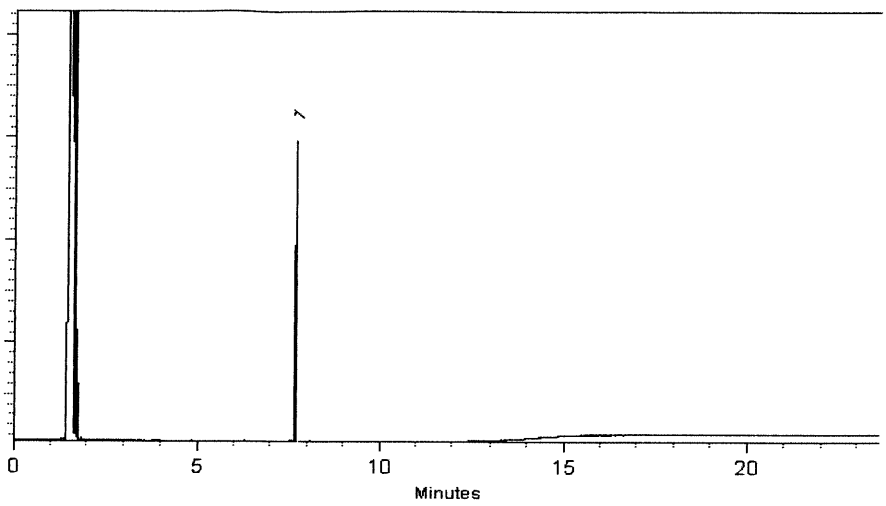
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Katelyn McGlinn - Operations Tech I

Date Mixed: 28-May-2021 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

P 111177 to P 111186

AR 11/02/21

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323	µg/mL	Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182	µg/mL	Unstressed
	Purity 99%		+/- 6.8182	µg/mL	Stressed

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

P11177
↓
P11186

AR
11/02/21

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P12616 (S) → P12620 7/5/2023

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,5-Dichlorobenzoic acid methyl ester **CAS #** 2905-67-1 (Lot 3903900) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	4-Nitroanisole **CAS #** 100-17-4 (Lot 24765/7) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Pentachloroanisole **CAS #** 1825-21-4 (Lot 7921100) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Chloramben methyl ester **CAS #** 7286-84-2 (Lot 6487100) **Purity** 98%	199.9 µg/mL	+/- 1.4176 +/- 6.7480 +/- 6.7480	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bentazon methyl ester **CAS #** 61592-45-8 (Lot 817100) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Picloram methyl ester **CAS #** 14143-55-6 (Lot 386-21B) **Purity** 98%	201.9 µg/mL	+/- 1.4315 +/- 6.8141 +/- 6.8141	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	DCPA methyl ester (Chlorthal-dimethyl) **CAS #** 1861-32-1 (Lot 8008700) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed 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)

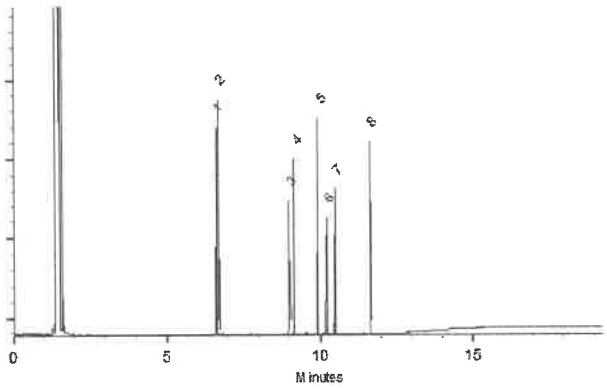
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 J Maye

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32055 **Lot No.:** A0199693

Description : Herbicide Mix #1/ME (Methyl Ester)

Herbicide Mix #1/ME (Methyl Ester) 200 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dicamba methyl ester	6597-78-0	1813500	99%	202.0 µg/mL	+/- 3.4272
2	Dichlorprop methyl ester	57153-17-0	8578700	98%	201.9 µg/mL	+/- 3.4251
3	2,4-D methyl ester	1928-38-7	10048000	99%	202.0 µg/mL	+/- 3.4272
4	2,4,5-TP (silvex) methyl ester	4841-20-7	504400	99%	202.0 µg/mL	+/- 3.4272
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	201.9 µg/mL	+/- 3.4251
6	Dinoseb methyl ether	6099-79-2	9239100	99%	202.0 µg/mL	+/- 3.4272
7	2,4-DB methyl ester	18625-12-2	6847200	99%	202.0 µg/mL	+/- 3.4272

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

P12660
↓
P12664

AJ
07/14/23

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.)

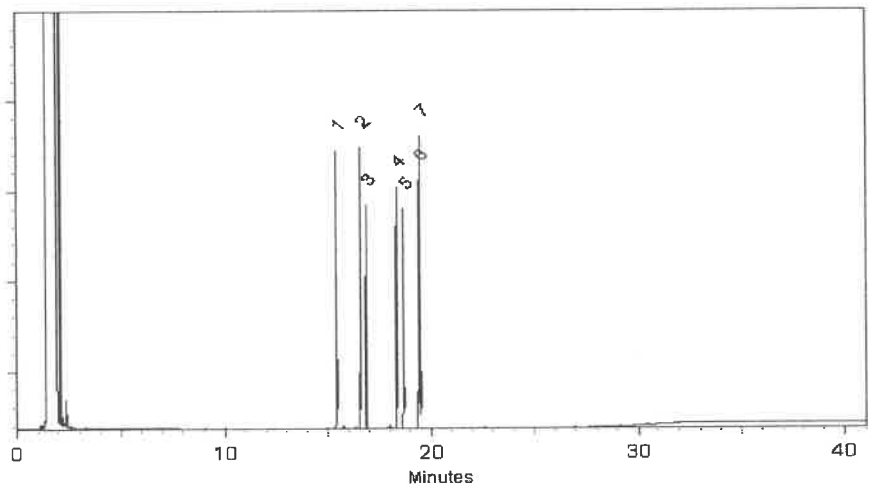
Inj. Temp:
250°C

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 - Operations Tech I

Date Mixed: 07-Jul-2023 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 11-Jul-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Agilent

Trusted Answers

P12706 ↓ P12715 (10)

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Product Number: HBM-8151M-1

Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006752480

Lot Issue Date: 18-Jul-2023

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.

CSD-QA-015.2

ISO 17025
Cert No. AT-1937

Agilent

Trusted Answers

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

P12706 (10)
↓
P12715

8.15.23

ANAB
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

P12766 ↓ P12785 (20)

Agilent
Trusted Answers

ISO 17034

9.11.23

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006750243
Lot Issue Date: 07-Jul-2023
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.

CSD-QA-015.2

ISO 17025
Cert No. AT-1937

Agilent

Trusted Answers

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 ↓ P12785 / 20 /

9/11/2023

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

P12766 ↓ P12785 (20)

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006750243
Lot Issue Date: 07-Jul-2023
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.

CSD-QA-015.2

ISO 17025
Cert No. AT-1937

Agilent

Trusted Answers

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 ↓ P12785 / 20

9/11/2023

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

RESTEK
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

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P13161 & P13180 (20)

01/15/2023

Catalog No. : 32049 **Lot No.:** A0201161

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 : May 31, 2026 **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	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	202.0 µg/mL	+/- 2.7426

* 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.

RESTEK
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

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P13161 & P13180 (20)

01/15/2023

Catalog No. : 32049 **Lot No.:** A0201161

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 : May 31, 2026 **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	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	202.0 µg/mL	+/- 2.7426

* 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.

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P13161 & P13180 (20)

01/15/2023

Catalog No. : 32049 **Lot No.:** A0201161

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 : May 31, 2026 **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	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	202.0 µg/mL	+/- 2.7426

* 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.

RESTEK
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

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P13161 & P13180 (20)

01/15/2023

Catalog No. : 32049 **Lot No.:** A0201161

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 : May 31, 2026 **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	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	202.0 µg/mL	+/- 2.7426

* 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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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 8/16/19
P8828
P8826

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.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dalapon methyl ester **CAS #** 17640-02-7 (Lot 1764600) **Purity** 98%	999.6 µg/mL	+/- 10.0697 µg/mL +/- 34.4896 µg/mL +/- 34.4896 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

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

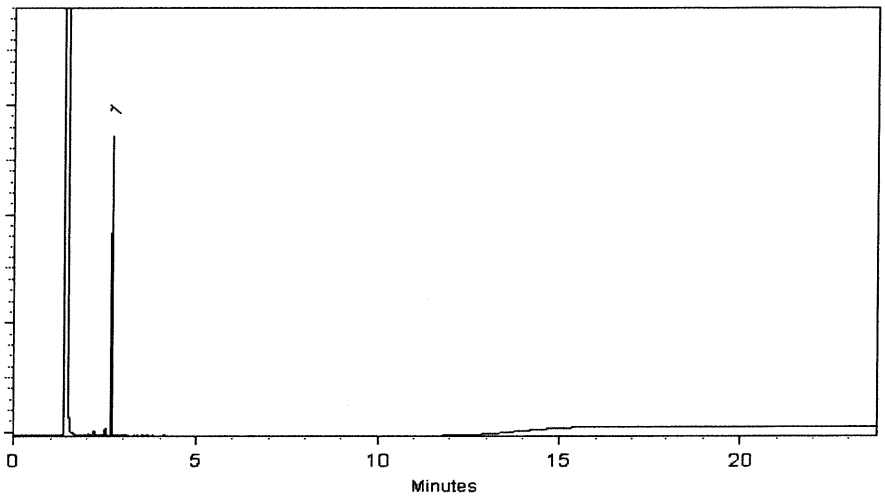
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Fang-Yun Lo - QC Analyst

Date Passed: 15-Apr-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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
P8897
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 +/- 685.5986 +/- 685.5986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	MCPA methyl ester **CAS #** 2436-73-9 (Lot 7964600) **Purity** 99%	20,012.0 µg/mL	+/- 185.1948 +/- 685.8728 +/- 685.8728	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

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

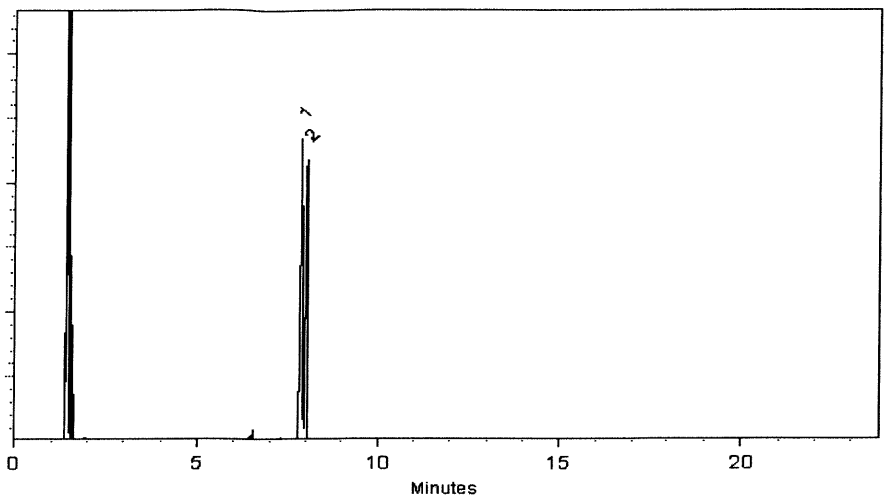
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Russ Bookhamer - Operations Technician I

Date Mixed: 03-Sep-2019 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 05-Sep-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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 10/11/19
P8999
–
P9008

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.

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)

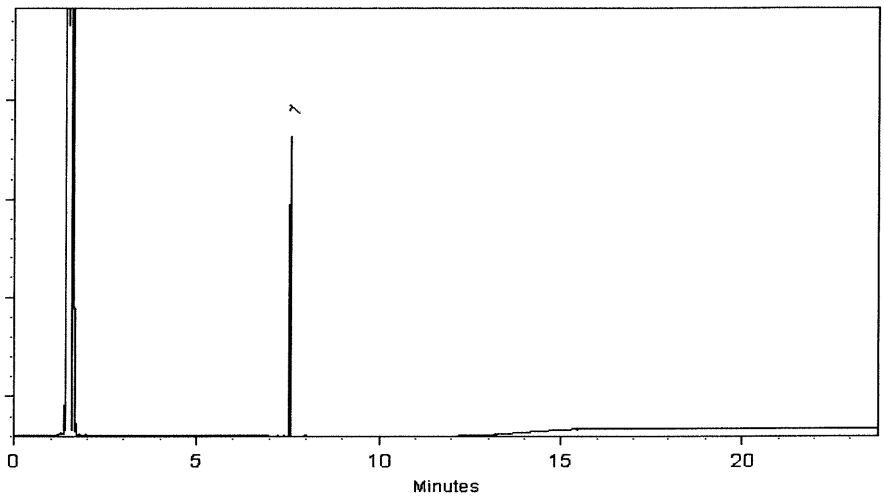
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 - Mix Technician

Date Mixed: 09-Sep-2019 **Balance:** B707717271

Feng-Yun Lo - QC Analyst

Date Passed: 11-Sep-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

SHIPPING DOCUMENTS

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
09/03/2024	318988

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/5/2024
9:50

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0924	8259-04
1	1	0	PT-HG-WP	WP Mercury	WP0924	8259-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0924	8259-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0924	8259-06
1	1	0	PT-DEM-WP	WP Demand	WP0924	8259-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0924	8259-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0924	8259-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0924	8259-72
1	1	0	PT-SOL-WP	WP Solids	WP0924	8259-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0924	8259-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0924	8259-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0924	8259-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0924	8259-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0924	8259-13
1	1	0	PT-PH-WP	WP pH	WP0924	8259-15
1	1	0	PT-CN-WP	WP Cyanide	WP0924	8259-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0924	8259-16

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
09/03/2024	318988

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Received by: SJ
9/5/2024
9:50

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	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-S2-WP	WP Sulfide	WP0924	8259-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0924	8259-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0924	8259-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0924	8259-20
1	1	0	PT-SIO2-WP	WP Silica	WP0924	8259-21
1	1	0	PT-COL-WP	WP Color	WP0924	8259-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0924	8259-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0924	8259-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0924	8259-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0924	8259-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0924	8259-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0924	8259-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0924	8259-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0924	8259-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R39151	R39151-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R39151	R39151-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R39151	R39151-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R39151	R39151-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R39151	R39151-98
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R39151	R39151-108

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488