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

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : NJ DRINKING WATER PT

CHEMTECH CONSULTING GROUP

284 Sheffield St,

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q1172

ATTENTION : QA Officer

Laboratory Certification ID # 20012

Table Of Contents for Q1172

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : Q1172

Project ID : NJ Drinking Water PT

Client : Chemtech Consulting Group

Lab Sample Number	Client Sample Number
Q1172-01	PT-TURB-WS
Q1172-02	PT-TURB-WS
Q1172-03	PT-MIN-WS
Q1172-04	PT-TM-WS
Q1172-05	PT-HG-WS
Q1172-06	PT-SIO2-WS
Q1172-07	PT-RVOA-WS
Q1172-08	PT-UNRVOA-WS
Q1172-09	PT-THM-WS
Q1172-10	PT-ADD-WS
Q1172-11	PT-EDBCP-WS

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: 2/18/2025

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 Drinking Water PT
Project # N/A
Chemtech Project # Q1172
Test Name: VOCGC Group 1

A. Number of Samples and Date of Receipt:
11 Water samples were received on 01/15/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Hardness, Calcium, Hardness, Total, Mercury, Metals Group3, Metals Group6, Metals Group7, Silica, Turbidity, VOCGC Group 1, VOCMS Group1, VOCMS Group2, VOCMS Group3, VOCMS Group4 and VOCMS Group5. This data package contains results for VOCGC Group 1.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_Q.The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of VOCGC Group 1s was based on method 504.1 and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
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 .

Sample PT-EDBCP-WS was diluted due to high concentration.

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.

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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

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1172 MATRIX: Water

METHOD: 504.1/3510

		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:			✓

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

Sample PT-EDBCP-WS was diluted due to high concentration.

_____ _____

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1172

	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:** 02/18/2025

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LAB CHRONICLE

OrderID:	Q1172	**OrderDate:**	1/23/2025 2:53:00 PM
Client:	Chemtech Consulting Group	**Project:**	NJ Drinking Water PT
Contact:	QA Officer	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1172-11	**PT-EDBCP-WS**	**WATER**			**01/13/25**			**01/15/25**
			VOCGC Group 1	504.1		01/30/25	01/30/25	
Q1172-11DL	**PT-EDBCP-WSDL**	**WATER**			**01/13/25**			**01/15/25**
			VOCGC Group 1	504.1		01/30/25	01/30/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1172 **Order ID:** Q1172

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

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : PT-EDBCP-WS								
Q1172-11	PT-EDBCP-WS	WATER	DBCP	1.40	E	0.0070	0.025	ug/L
Q1172-11	PT-EDBCP-WS	WATER	EDB	0.85	E	0.0085	0.025	ug/L
			Total Concentration:	**2.250**				
Client ID : PT-EDBCP-WSDL								
Q1172-11DL	PT-EDBCP-WSDL	WATER	DBCP	1.50	D	0.028	0.10	ug/L
Q1172-11DL	PT-EDBCP-WSDL	WATER	EDB	0.92	D	0.034	0.10	ug/L
			Total Concentration:	**2.420**				

QC SUMMARY

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1172

Client: Chemtech Consulting Group

Analytical Method: 8011 **Datafile :** PQ069900.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166329BS	DBCP	0.25	0.23	ug/L	92				70	130	
	EDB	0.25	0.23	ug/L	92				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1172

Client: Chemtech Consulting Group

Analytical Method: 8011 **Datafile :** PQ069901.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166329BSD	DBCP	0.25	0.24	ug/L	96	4			70	130	20
	EDB	0.25	0.24	ug/L	96	4			70	130	20

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166329BL

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1172 SAS No.: Q1172 SDG NO.: Q1172

Lab Sample ID: PB166329BL Lab File ID: PQ069899.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 01/30/2025

Date Analyzed (1): 01/30/2025 Date Analyzed (2): 01/30/2025

Time Analyzed (1): 12:12 Time Analyzed (2): 12:12

Instrument ID (1): ECD_Q Instrument ID (2): ECD_Q

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 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
PB166329BS	PB166329BS	PQ069900.D	01/30/2025	01/30/2025
PB166329BSD	PB166329BSD	PQ069901.D	01/30/2025	01/30/2025
PT-EDBCP-WS	Q1172-11	PQ069902.D	01/30/2025	01/30/2025

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:	01/13/25
Project:	NJ Drinking Water PT	Date Received:	01/15/25
Client Sample ID:	PT-EDBCP-WS	SDG No.:	Q1172
Lab Sample ID:	Q1172-11	Matrix:	WATER
Analytical Method:	8011	% Solid:	0 Decanted:
Sample Wt/Vol:	35 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	VOCGC Group 1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ069902.D	1	01/30/25 08:40	01/30/25 12:48	PB166329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
96-12-8	DBCP	1.40	E	0.0070	0.025	ug/L
106-93-4	EDB	0.85	E	0.0085	0.025	ug/L

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_Q\Data\PQ013025\
Data File : PQ069902.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 12:48
Operator : YP\AJ
Sample : Q1172-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
PT-EDBCP-WS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 13:02:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.615	1.977	204.1E6	157.7E6	0.847m	0.830m
2)	SA DBCP	5.971	4.995	774.5E6	622.9E6	1.352	1.342

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

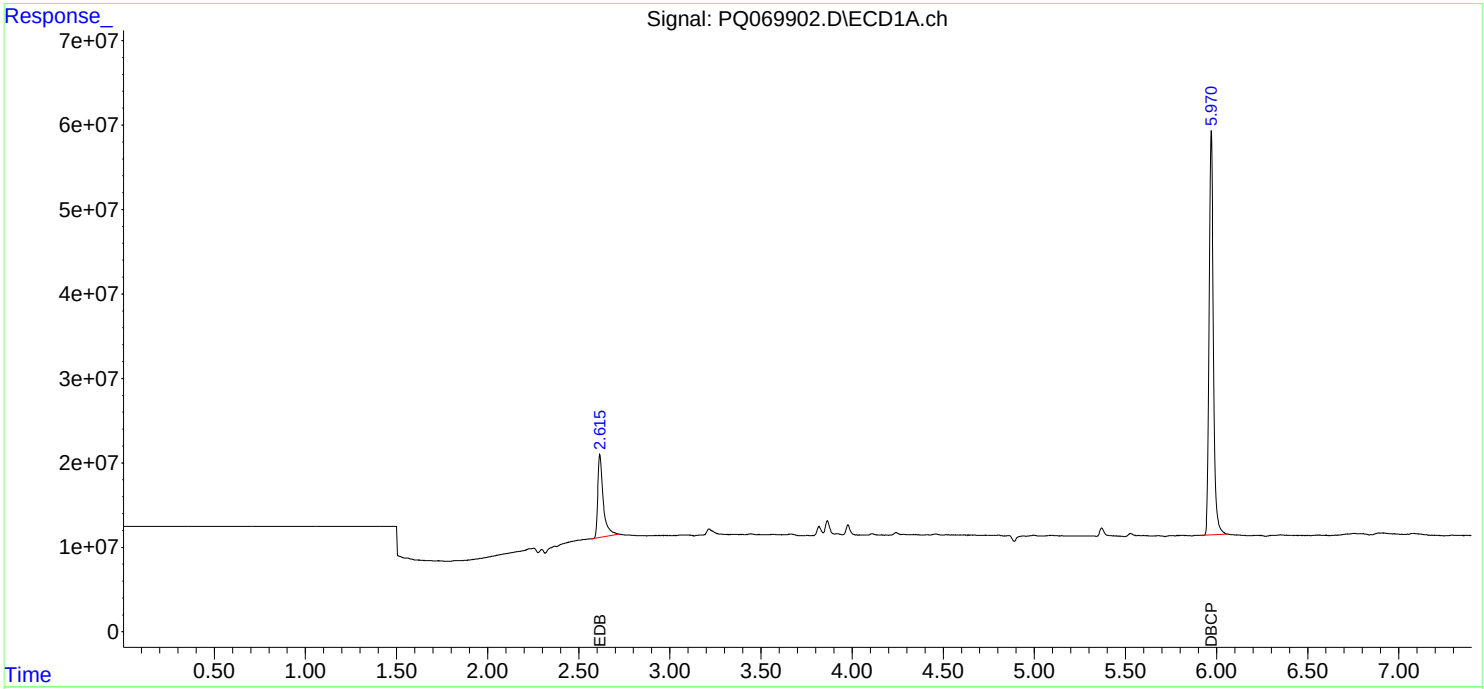
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069902.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 12:48
Operator : YP\AJ
Sample : Q1172-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

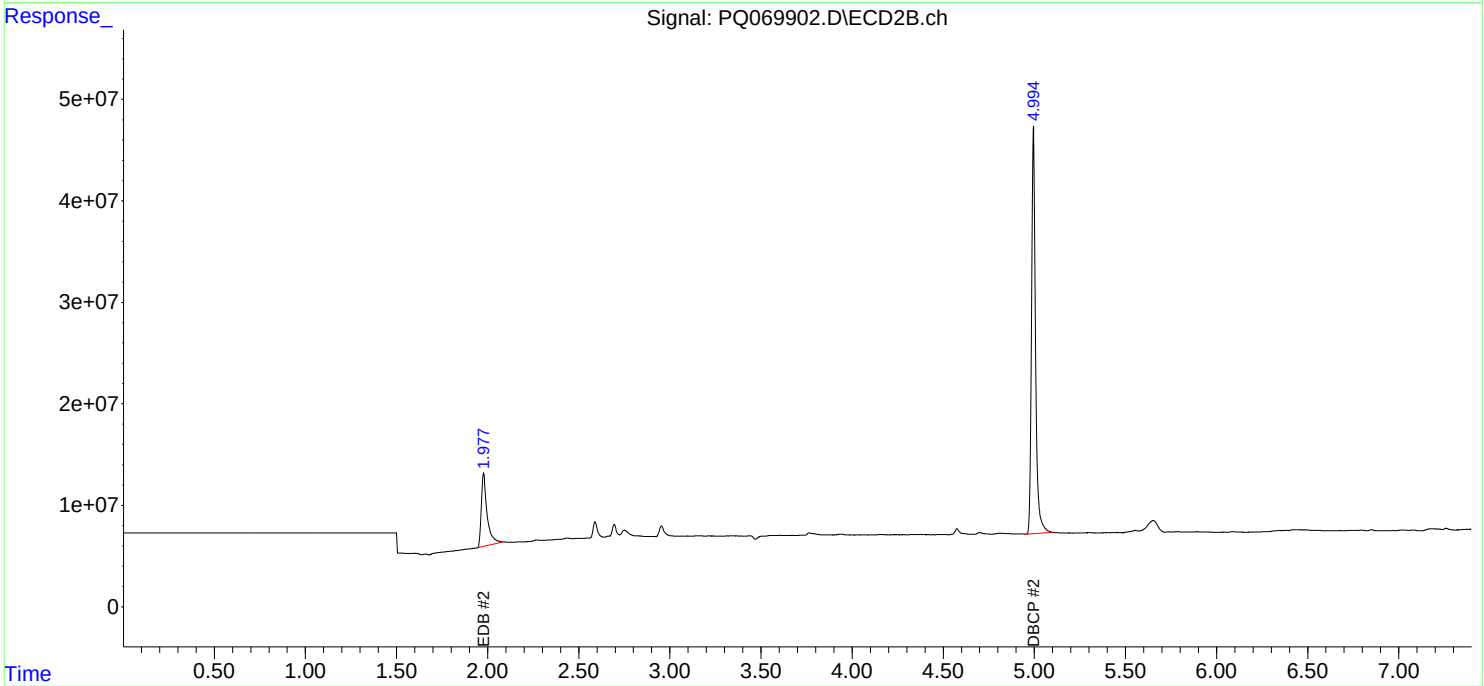
Instrument :
ECD_Q
ClientSampleId :
PT-EDBCP-WS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 13:02:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





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:	01/13/25
Project:	NJ Drinking Water PT	Date Received:	01/15/25
Client Sample ID:	PT-EDBCP-WSDL	SDG No.:	Q1172
Lab Sample ID:	Q1172-11DL	Matrix:	WATER
Analytical Method:	8011	% Solid:	0 Decanted:
Sample Wt/Vol:	35 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	VOCGC Group 1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ069903.D	4	01/30/25 08:40	01/30/25 13:11	PB166329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
96-12-8	DBCP	1.50	D	0.028	0.10	ug/L
106-93-4	EDB	0.92	D	0.034	0.10	ug/L

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_Q\Data\PQ013025\
Data File : PQ069903.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 13:11
Operator : YP\AJ
Sample : Q1172-11DL 4X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
PT-EDBCP-WSDL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 13:18:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.617	1.977	50536018	44294184	0.210	0.233m
2)	SA DBCP	5.971	4.995	211.8E6	170.8E6	0.370	0.368

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069903.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 13:11
Operator : YP\AJ
Sample : Q1172-11DL 4X
Misc :
ALS Vial : 18 Sample Multiplier: 1

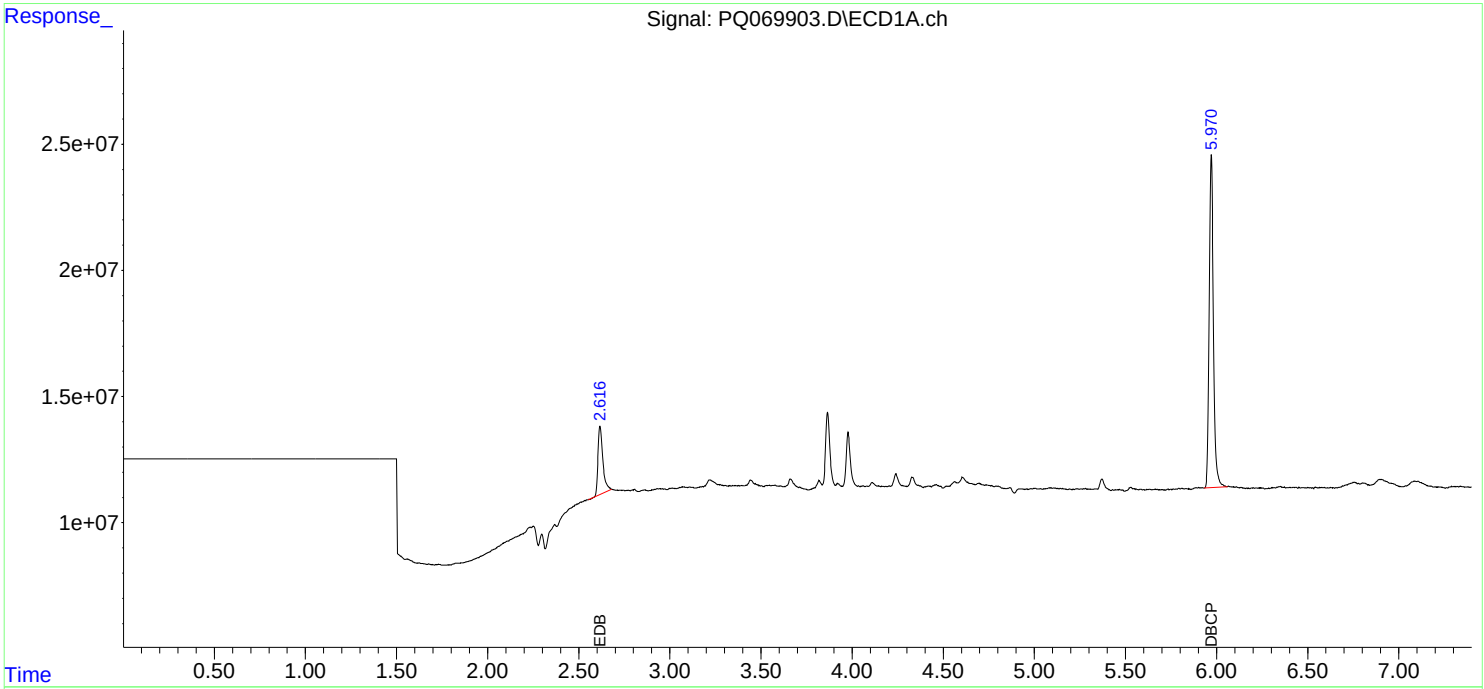
Instrument :
ECD_Q
ClientSampleId :
PT-EDBCP-WSDL

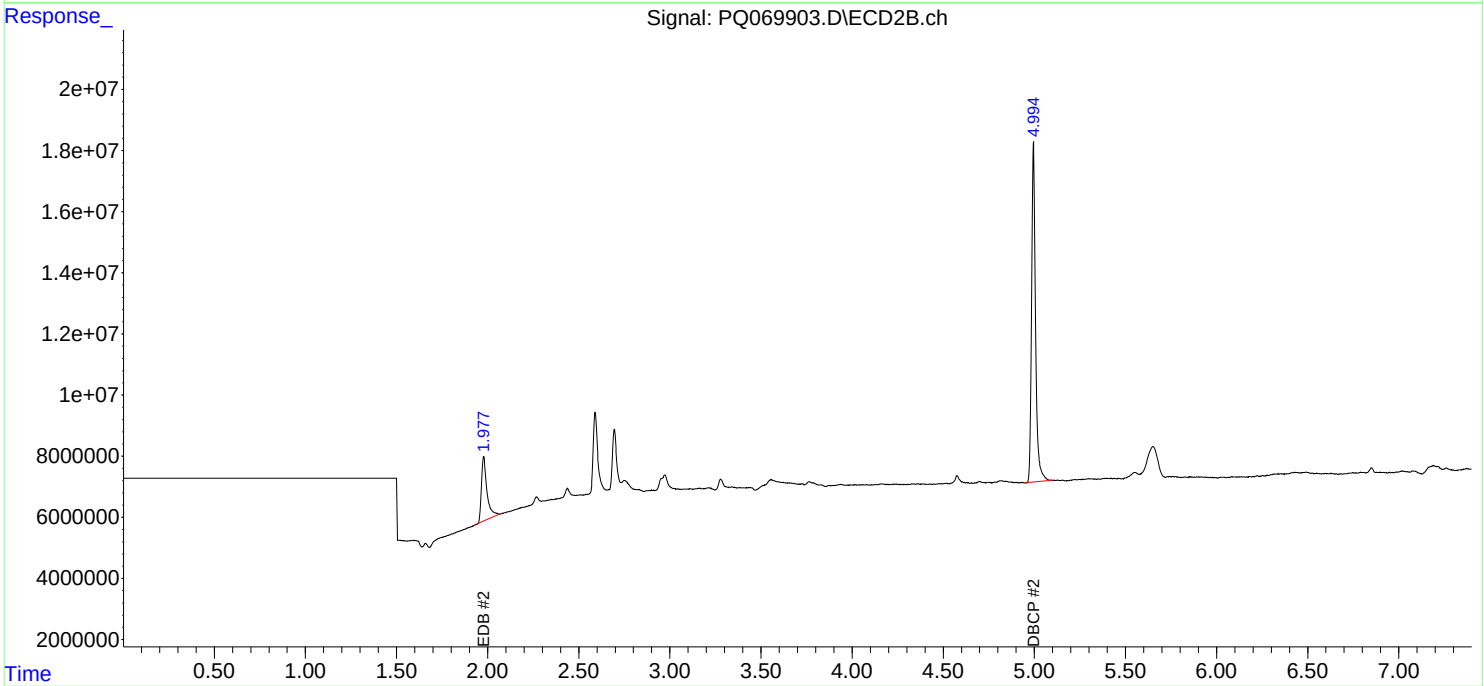
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/31/2025
Supervised By :Ankita Jodhani 01/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 13:18:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





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.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Instrument ID: ECD_Q **Calibration Date(s):** 01/30/2025 01/30/2025

Calibration Times: 09:39 10:27

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 0.5 = PQ069886.D RT 0.25 = PQ069887.D

RT 0.1 = PQ069888.D RT 0.05 = PQ069889.D RT 0.025 = PQ069890.D

COMPOUND	RT 0.5	RT 0.25	RT 0.1	RT 0.05	RT 0.025	MEAN RT	RT WINDOW FROM	RT WINDOW TO
DBCP	5.97	5.97	5.97	5.97	5.97	5.97	5.87	6.07
EDB	2.62	2.62	2.62	2.62	2.62	2.62	2.52	2.72

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.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Instrument ID: ECD_Q **Calibration Date(s):** 01/30/2025 01/30/2025

Calibration Times: 09:39 10:27

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 0.5 = PQ069886.D RT 0.25 = PQ069887.D

RT 0.1 = PQ069888.D RT 0.05 = PQ069889.D RT 0.025 = PQ069890.D

COMPOUND	RT 0.5	RT 0.25	RT 0.1	RT 0.05	RT 0.025	MEAN RT	RT WINDOW FROM	RT WINDOW TO
DBCP	5.00	4.99	5.00	5.00	5.00	4.99	4.89	5.09
EDB	1.98	1.98	1.98	1.98	1.98	1.98	1.88	2.08

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.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Instrument ID: ECD_Q **Calibration Date(s):** 01/30/2025 01/30/2025

Calibration Times: 09:39 10:27

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 0.5 =** PQ069886.D **CF 0.25 =** PQ069887.D

CF 0.1 = PQ069888.D **CF 0.05 =** PQ069889.D **CF 0.025 =** PQ069890.D

COMPOUND	CF 0.5	CF 0.25	CF 0.1	CF 0.05	CF 0.025	CF	% RSD
DBCP	508701000000	551736000000	593005000000	610239000000	601102000000	572957000000	7
EDB	233029000000	242600000000	230567000000	250925000000	247230000000	240870000000	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.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Instrument ID: ECD_Q **Calibration Date(s):** 01/30/2025 01/30/2025

Calibration Times: 09:39 10:27

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 0.5 =** PQ069886.D **CF 0.25 =** PQ069887.D

CF 0.1 = PQ069888.D **CF 0.05 =** PQ069889.D **CF 0.025 =** PQ069890.D

COMPOUND	CF 0.5	CF 0.25	CF 0.1	CF 0.05	CF 0.025	CF	% RSD
DBCP	407582000000	437008000000	487380000000	505855000000	482295000000	464024000000	9
EDB	185789000000	194048000000	200608000000	188438000000	181322000000	190041000000	4

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069886.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 09:39
Operator : YP\AJ
Sample : M8011.504.1 0.5 PPB ICC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.5 PPB ICC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:24:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:22:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.616	1.978	116.5E6	92894284	0.505	0.463
2)	SA DBCP	5.970	4.995	254.4E6	203.8E6	0.429	0.418

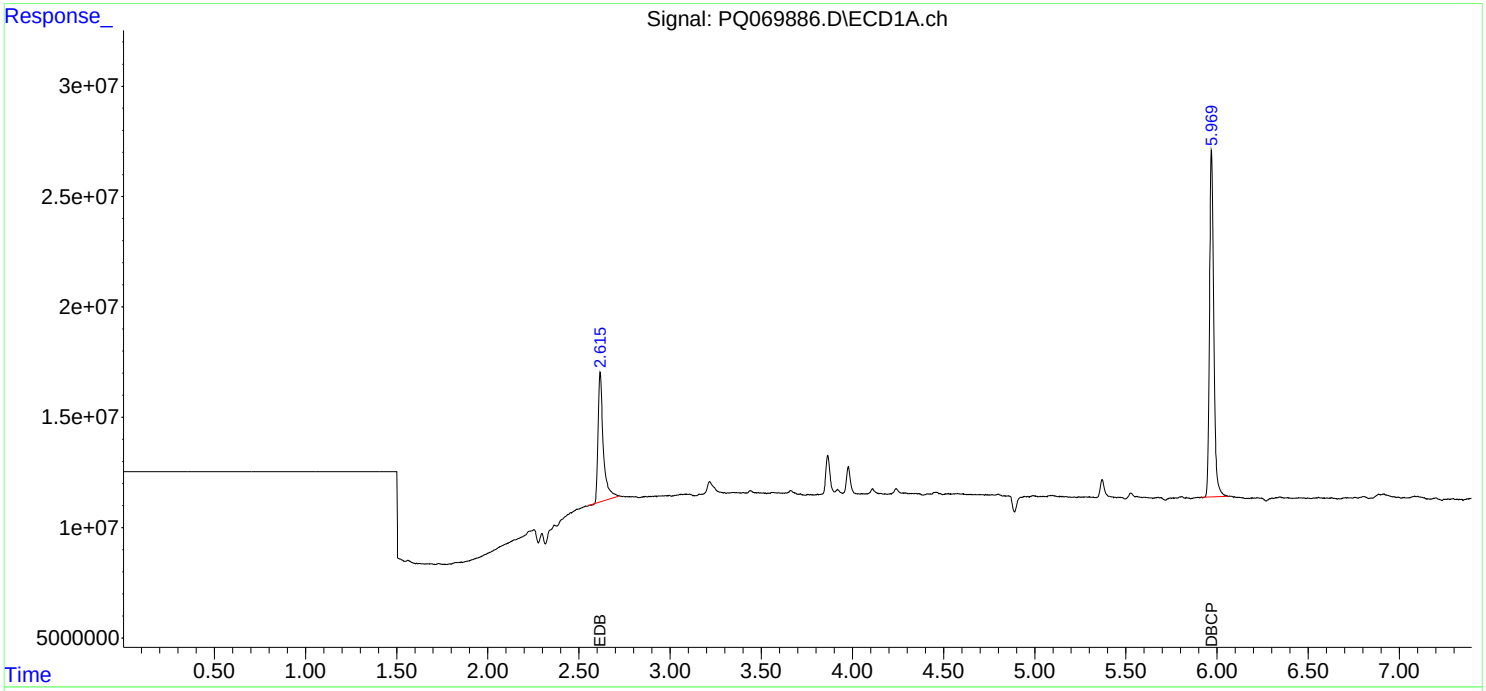
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

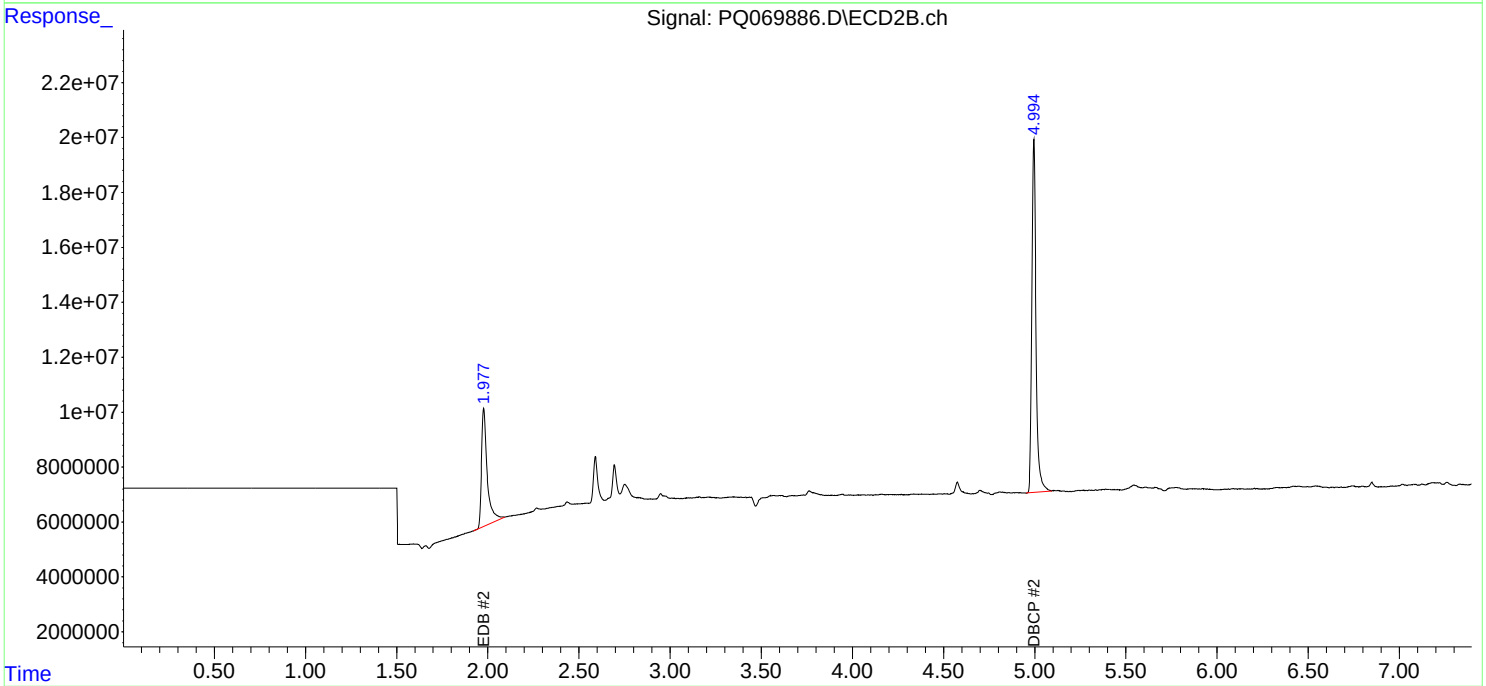
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069886.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 09:39
Operator : YP\AJ
Sample : M8011.504.1 0.5 PPB ICC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.5 PPB ICC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:24:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:22:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069887.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 09:51
Operator : YP\AJ
Sample : M8011.504.1 0.25 PPB ICC
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.25 PPB ICC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:24:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:22:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.616	1.977	60650000	48511994	0.263	0.242
2)	SA DBCP	5.970	4.994	137.9E6	109.3E6	0.233	0.224

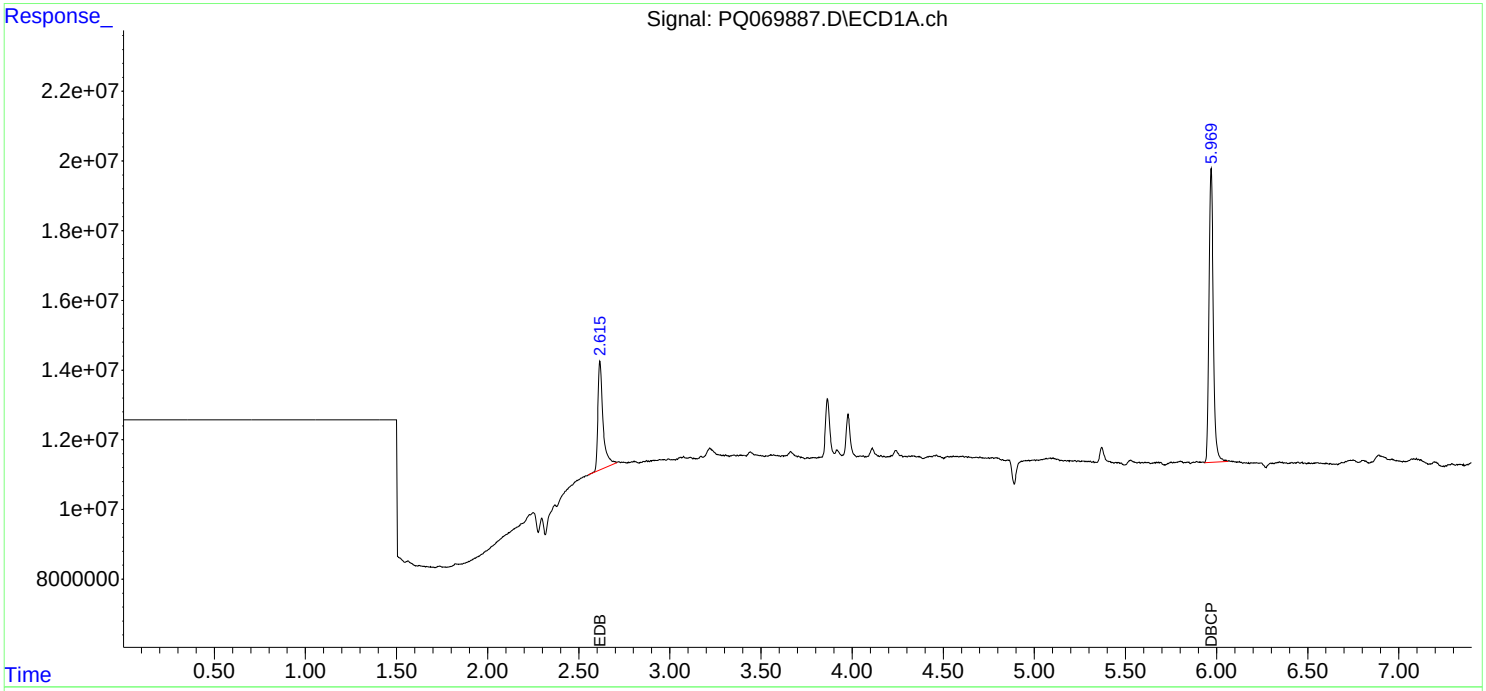
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

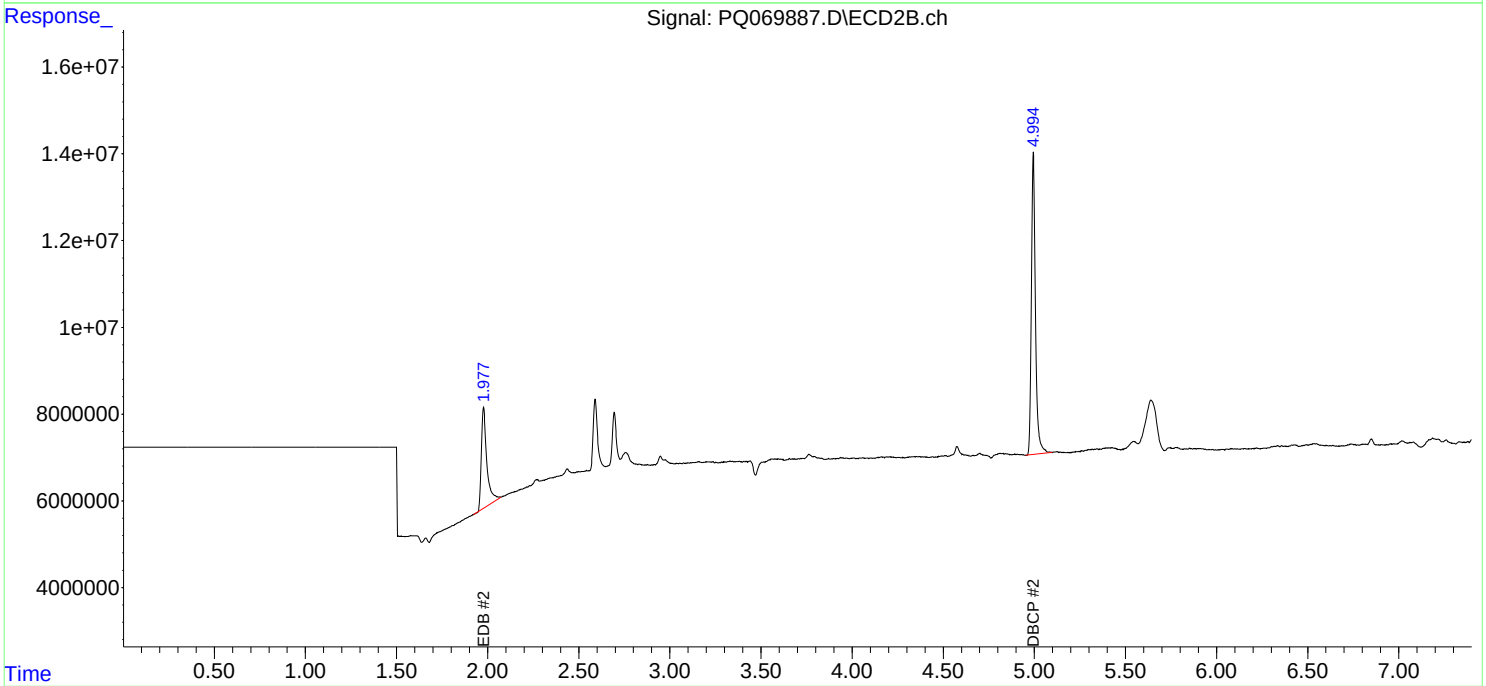
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069887.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 09:51
Operator : YP\AJ
Sample : M8011.504.1 0.25 PPB ICC
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.25 PPB ICC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:24:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:22:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069888.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 10:03
Operator : YP\AJ
Sample : M8011.504.1 0.1 PPB ICC
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.1 PPB ICC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:22:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:22:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.617	1.977	23056681	20060803	0.100	0.100
2)	SA DBCP	5.970	4.995	59300475	48738041	0.100	0.100

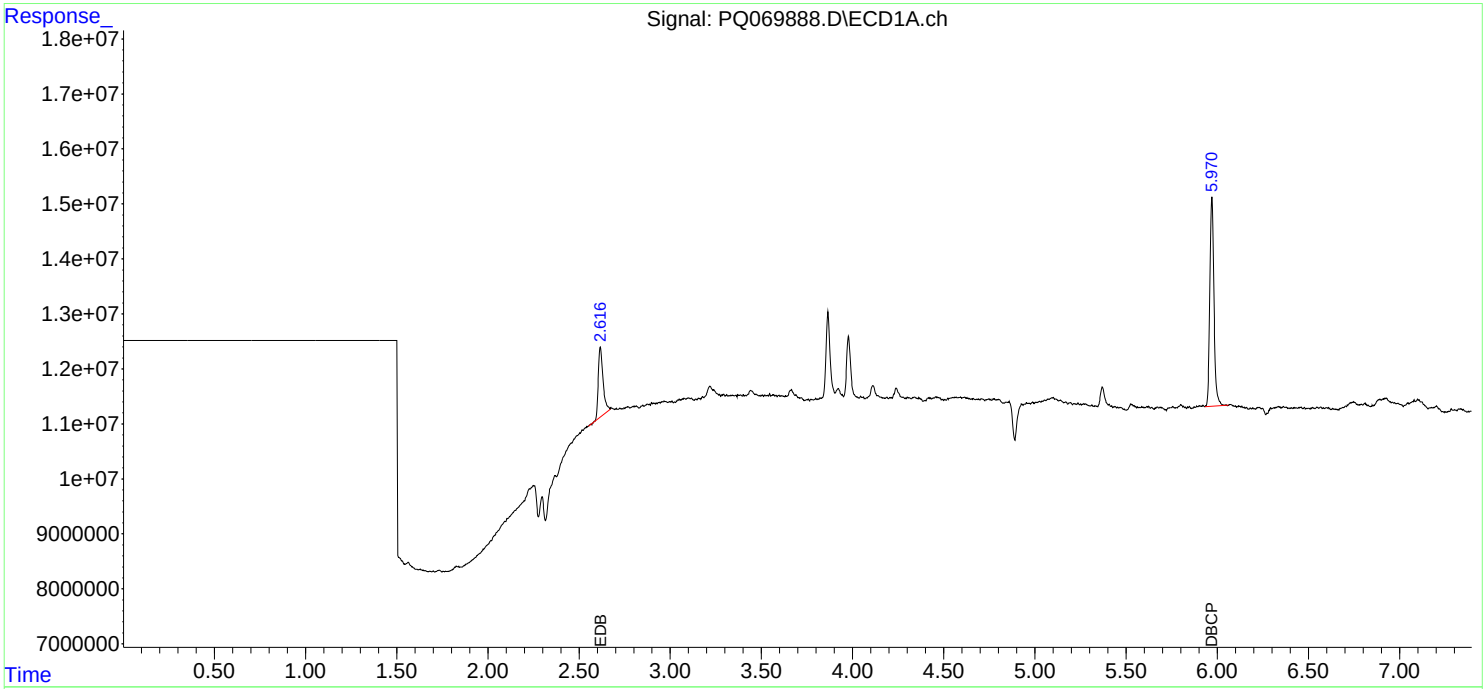
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

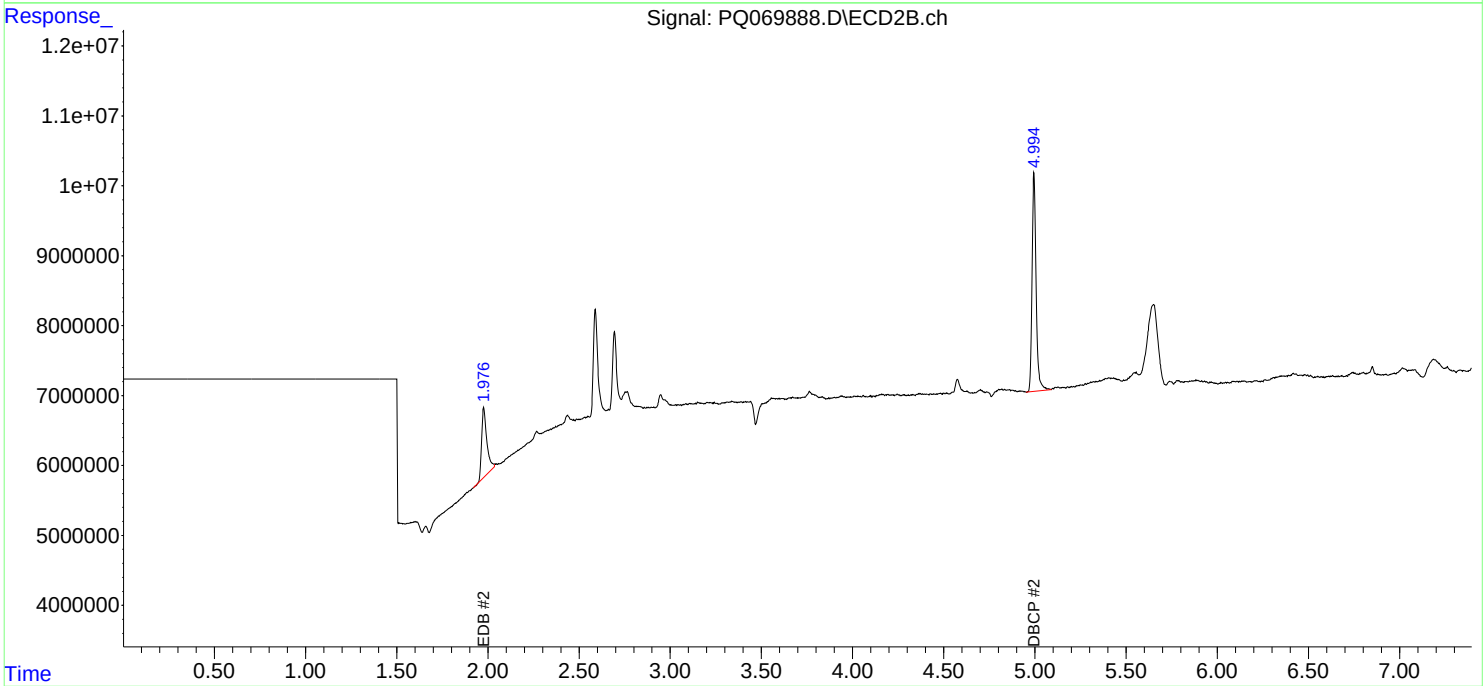
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069888.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 10:03
Operator : YP\AJ
Sample : M8011.504.1 0.1 PPB ICC
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.1 PPB ICC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:22:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:22:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069889.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 10:15
Operator : YP\AJ
Sample : M8011.504.1 0.05 PPB ICC
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.05 PPB ICC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:25:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:22:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.617	1.978	12546231	9421891	0.054	0.047
2)	SA DBCP	5.970	4.995	30511950	25292746	0.051	0.052

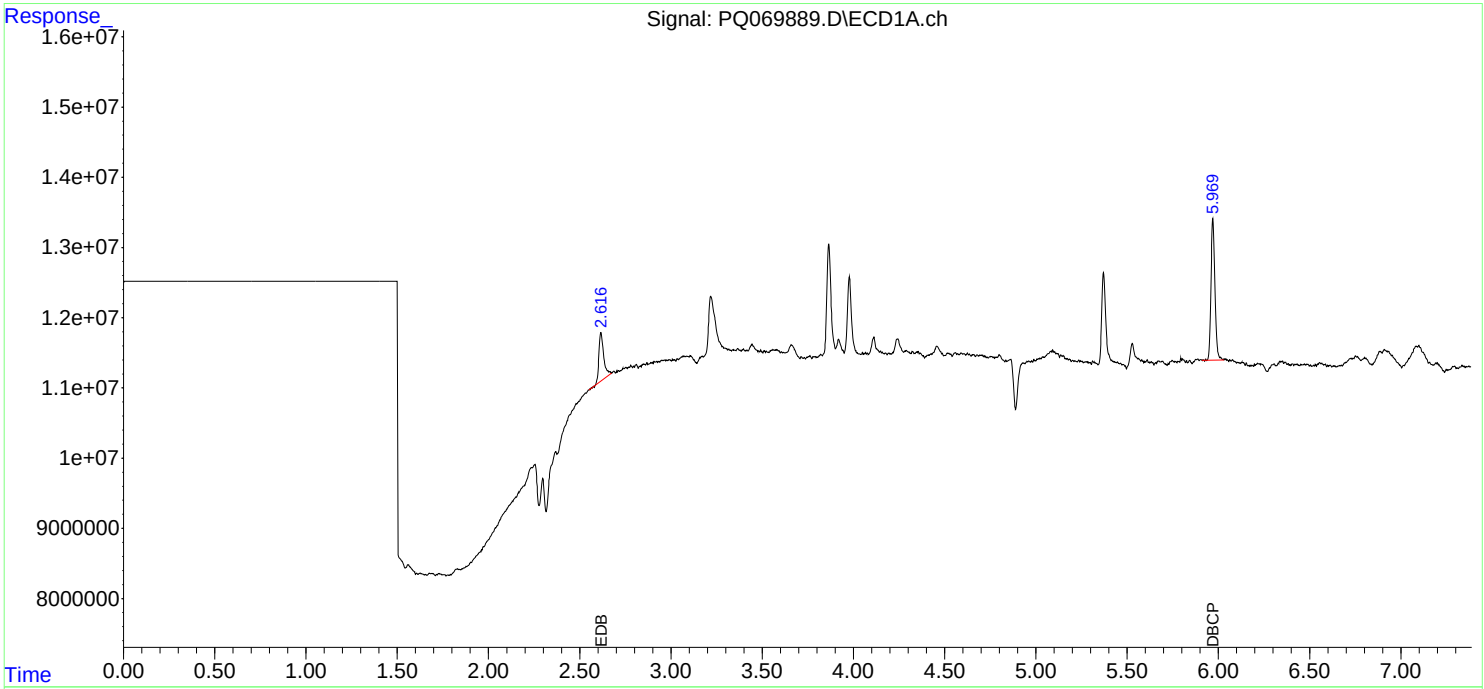
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

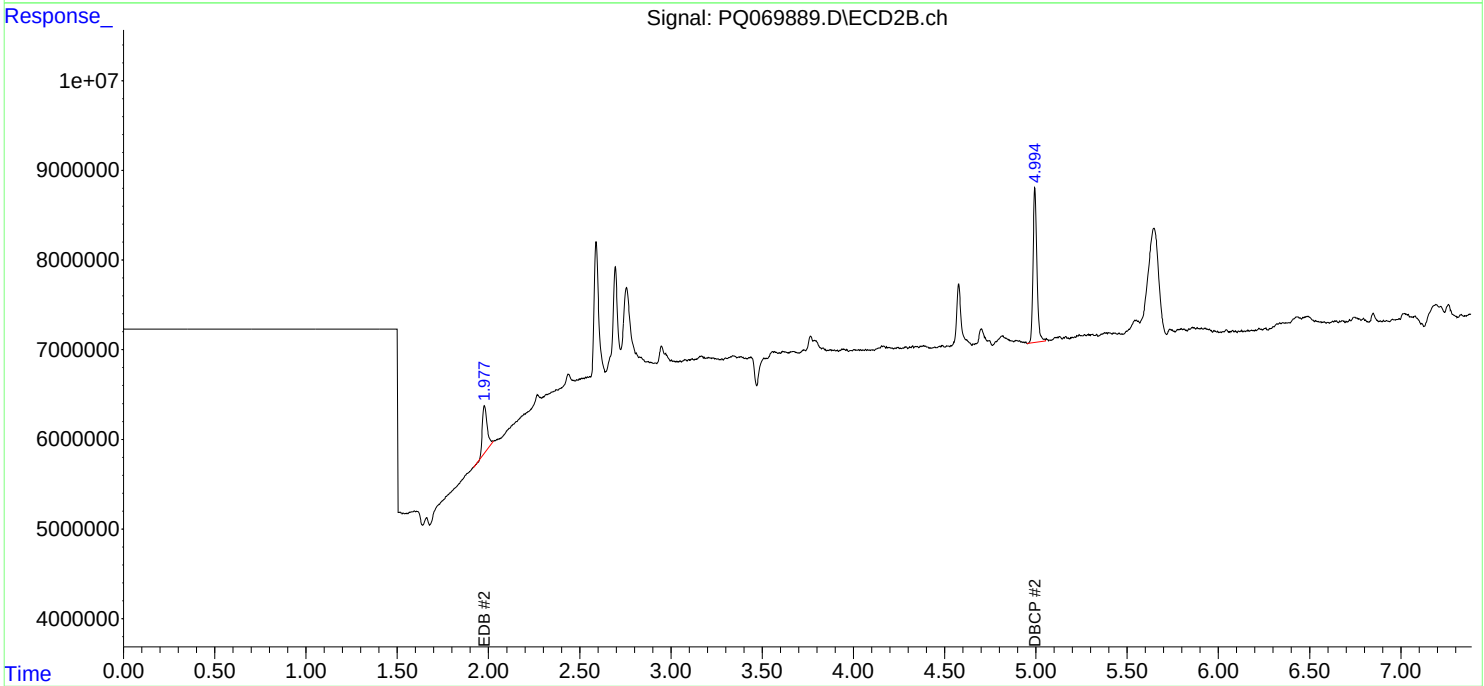
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069889.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 10:15
Operator : YP\AJ
Sample : M8011.504.1 0.05 PPB ICC
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.05 PPB ICC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:25:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:22:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069890.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 10:27
Operator : YP\AJ
Sample : M8011.504.1 0.025 PPB ICC
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.025 PPB ICC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:33:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:22:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.618	1.979	6180753	4533040	0.027	0.023
2)	SA DBCP	5.970	4.995	15027553	12057368	0.025	0.025

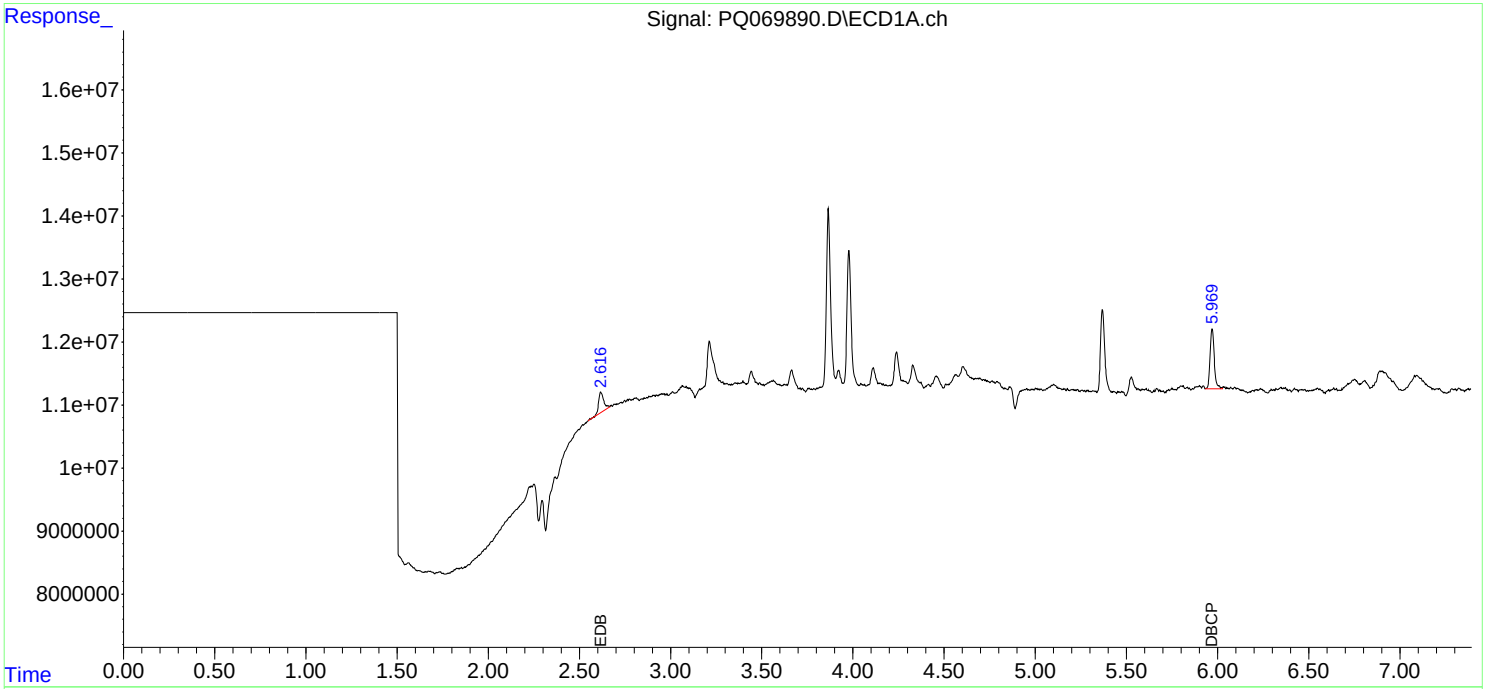
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

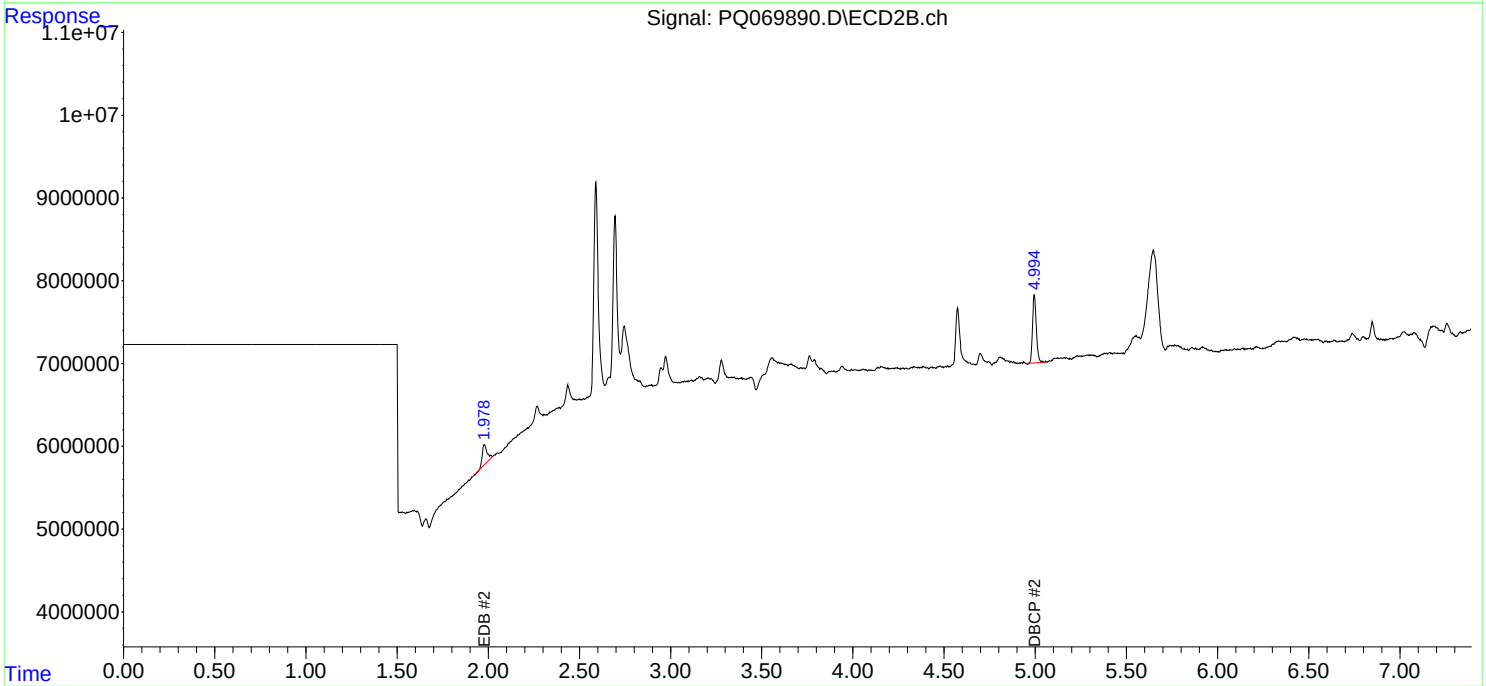
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069890.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 10:27
Operator : YP\AJ
Sample : M8011.504.1 0.025 PPB ICC
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.025 PPB ICC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:33:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:22:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069891.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 10:38
Operator : YP\AJ
Sample : M8011.504.1 0.1 PPB ICV
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
ICVPQ013025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:45:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.618	1.980	21319003	19387161	0.089	0.102
2)	SA DBCP	5.971	4.995	54502414	45687130	0.095	0.098

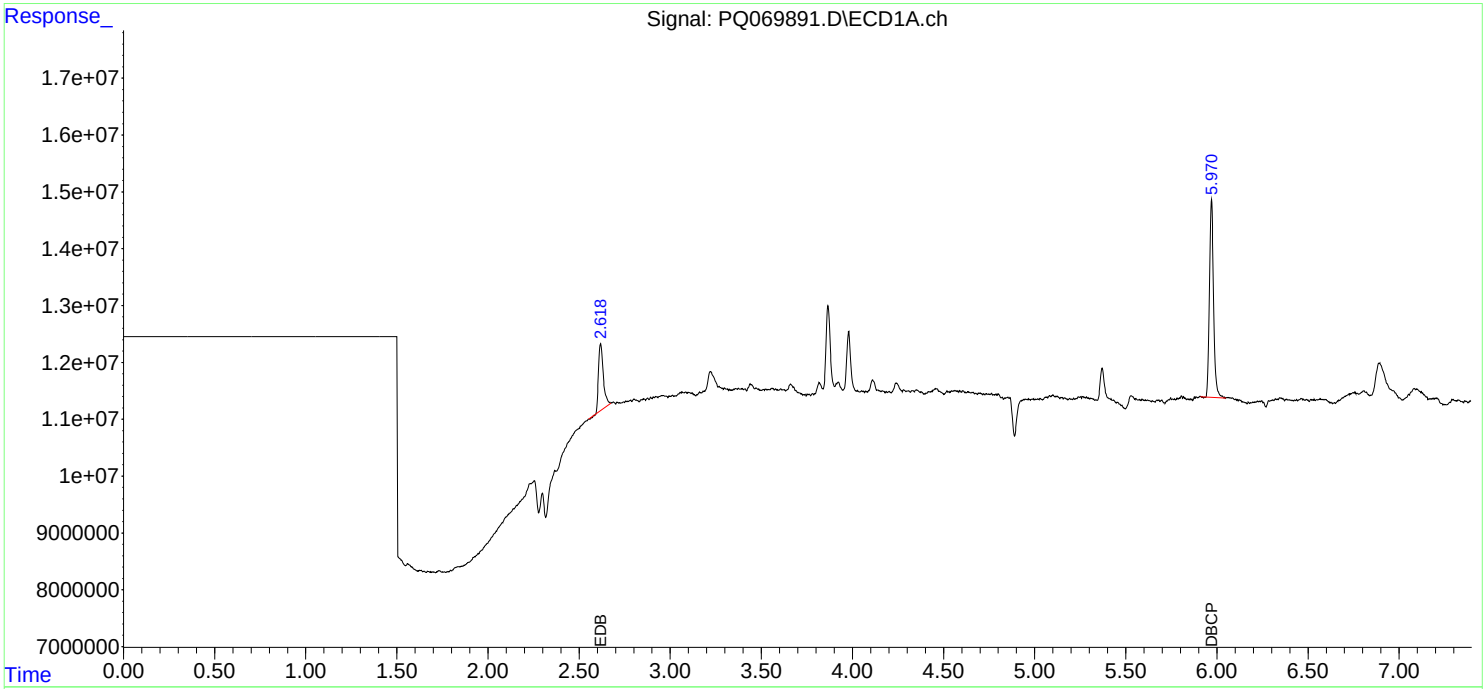
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

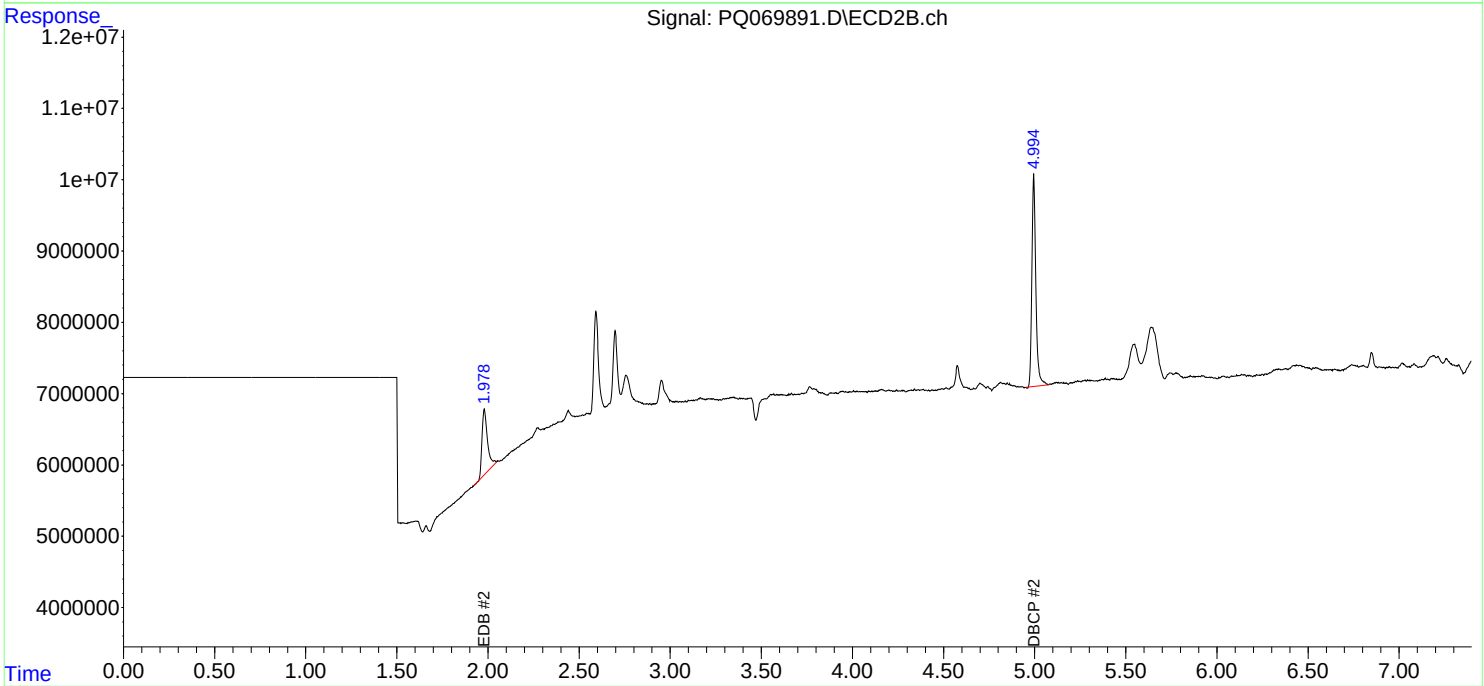
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069891.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 10:38
Operator : YP\AJ
Sample : M8011.504.1 0.1 PPB ICV
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
ICVPQ013025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:45:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069892.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 10:50
Operator : YP\AJ
Sample : RT CHECK
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
RT CHECK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:59:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

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

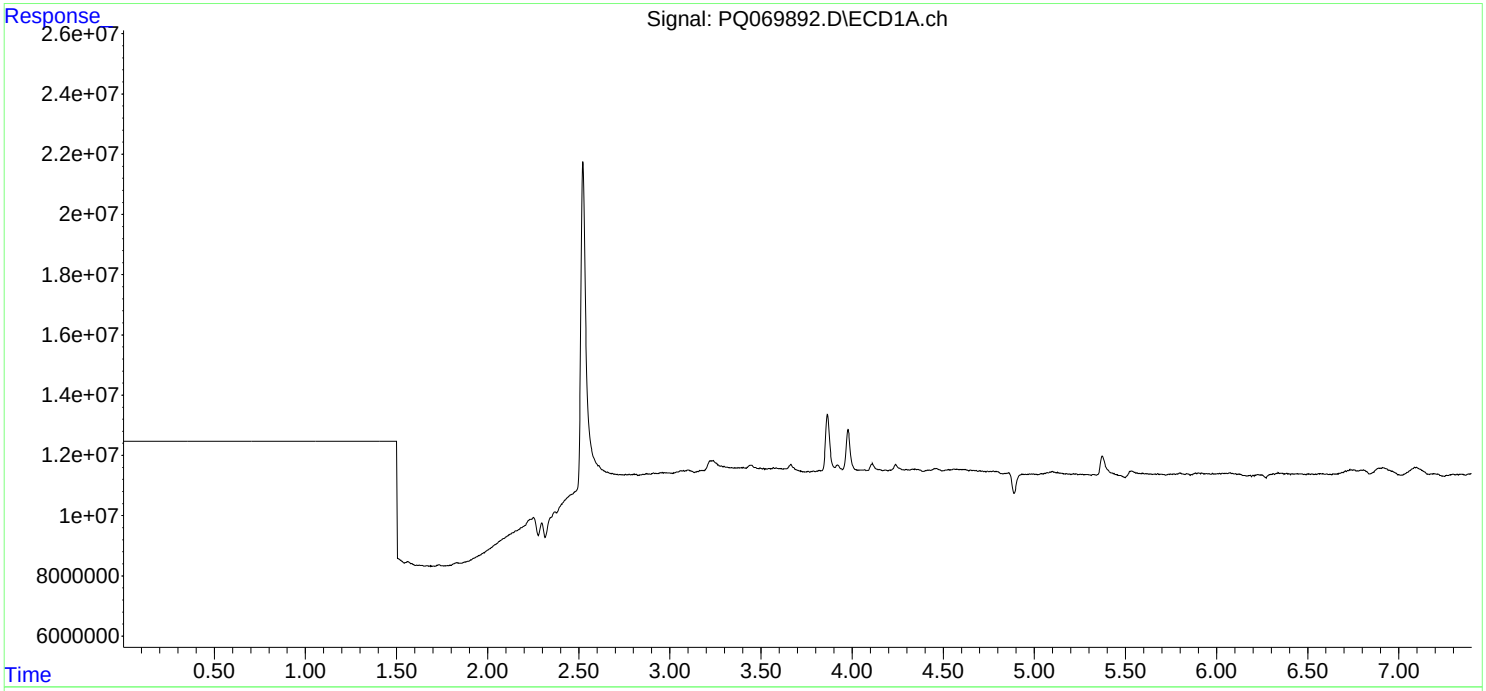
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

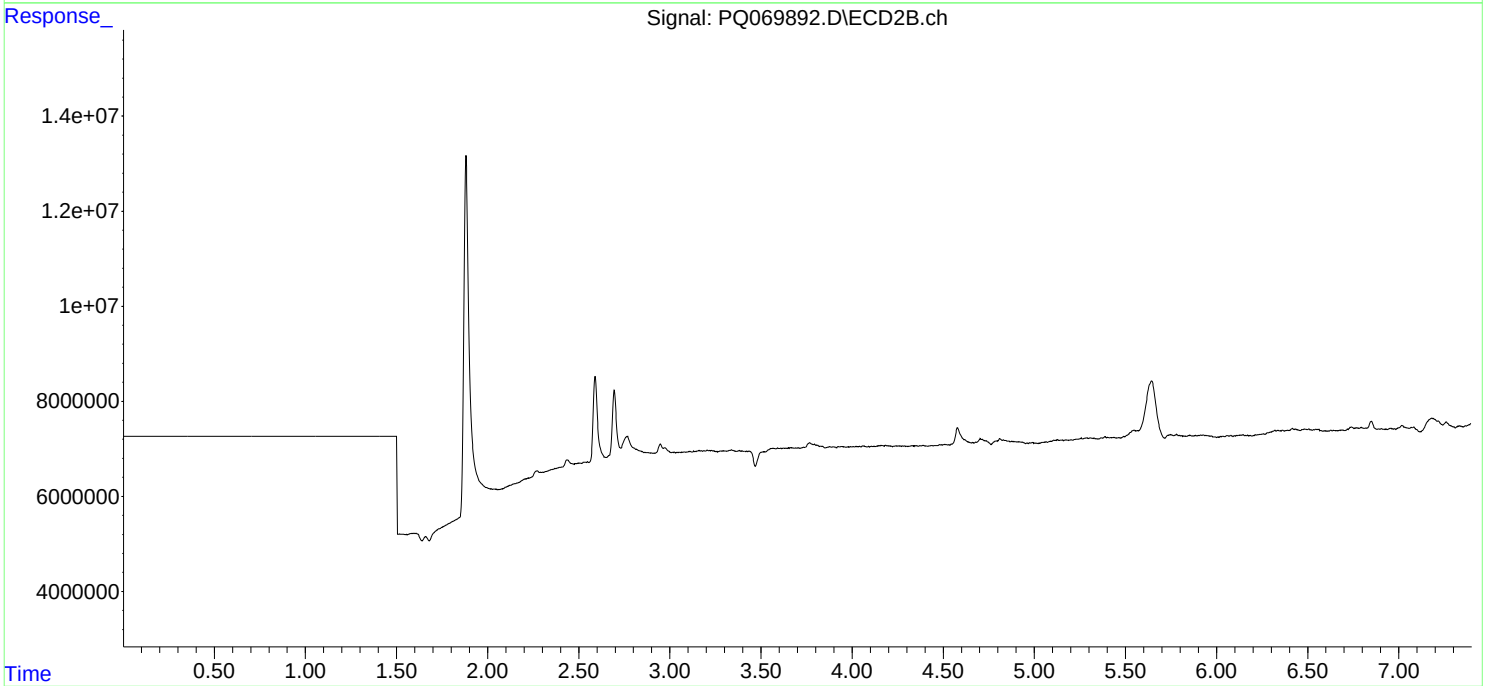
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069892.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 10:50
Operator : YP\AJ
Sample : RT CHECK
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
RT CHECK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 10:59:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 11:14
Operator : YP\AJ
Sample : Low-Level LFB-MDL Check
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
Low-Level LFB-MDL Check

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 12:45:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.617	1.979	6707492	4439559	0.028	0.023
2)	SA DBCP	5.970	4.995	14493767	12647397	0.025	0.027

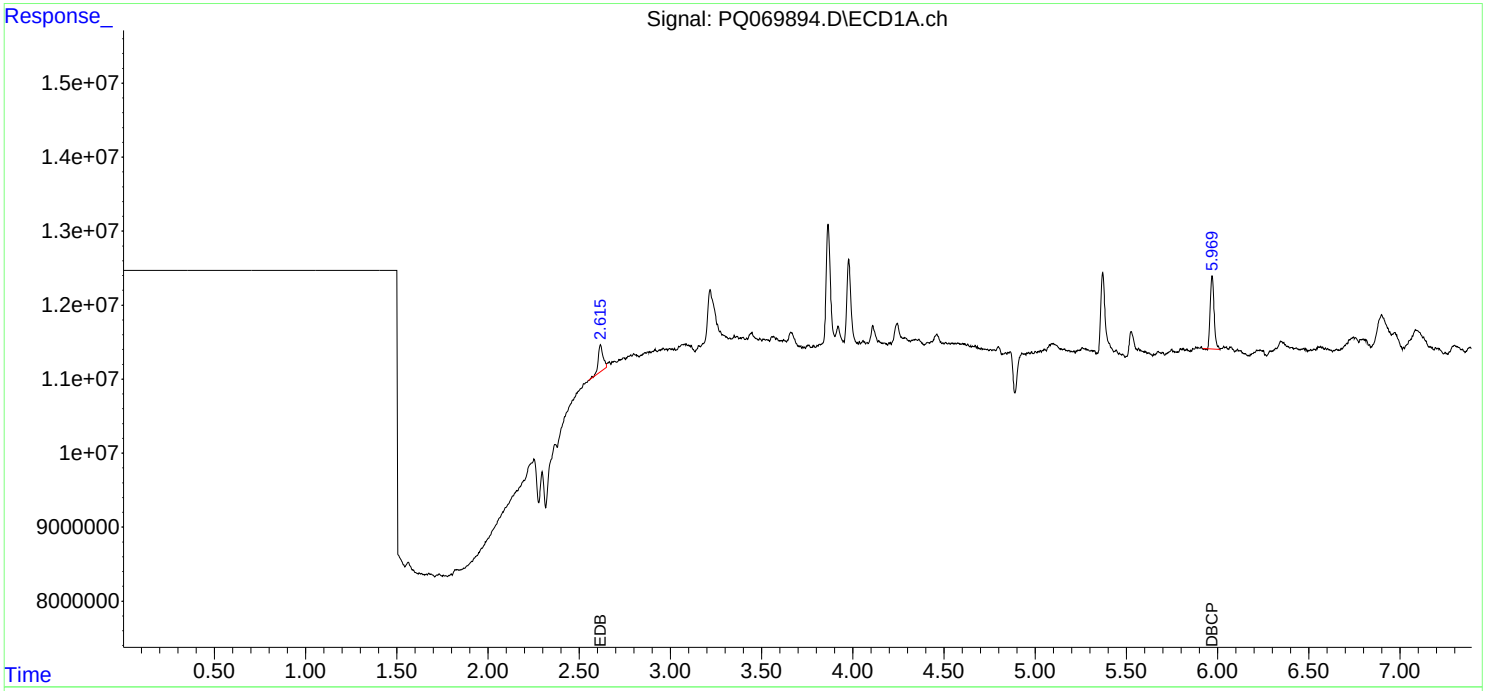
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

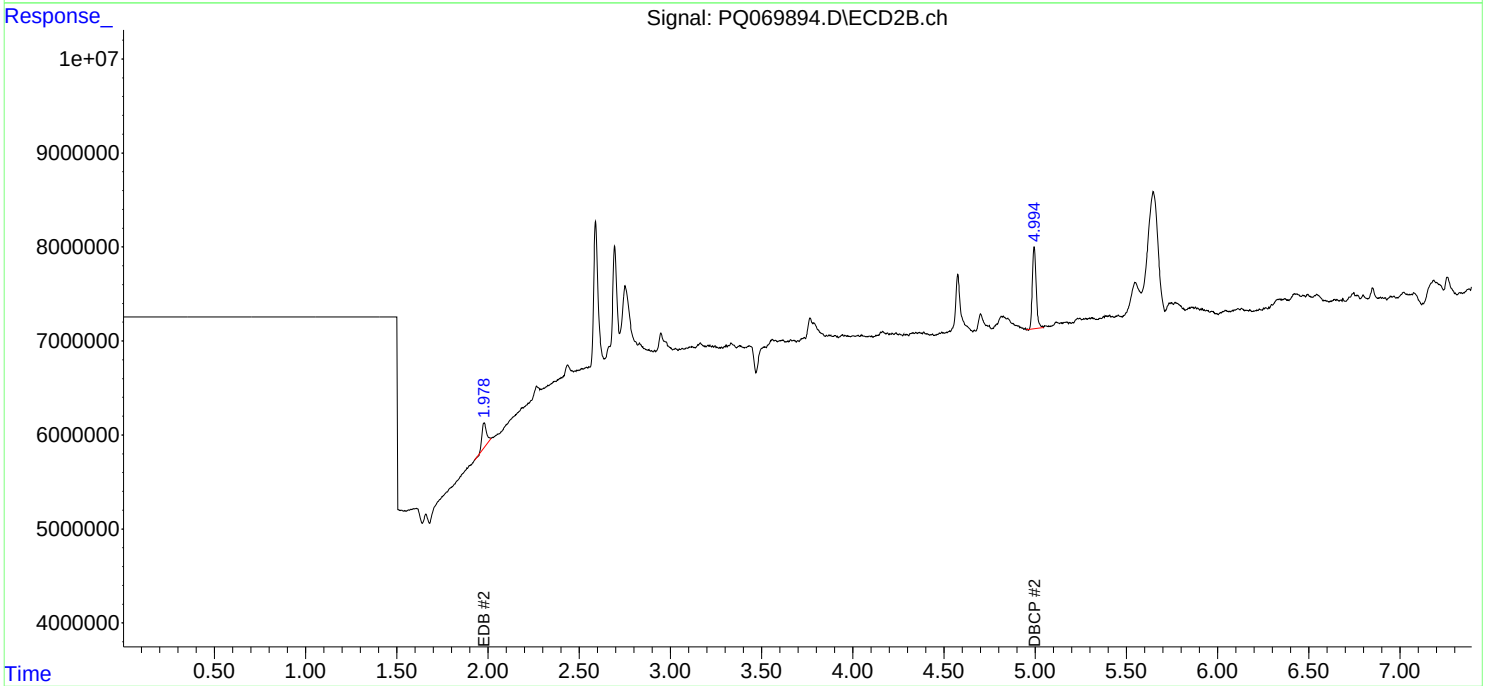
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 11:14
Operator : YP\AJ
Sample : Low-Level LFB-MDL Check
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
Low-Level LFB-MDL Check

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 12:45:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Continuing Calib Date: 01/30/2025 **Initial Calibration Date(s):** 01/30/2025 01/30/2025

Continuing Calib Time: 12:01 **Initial Calibration Time(s):** 09:39 10:27

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DBCP	5.97	5.97	5.87	6.07	0.00
EDB	2.62	2.62	2.52	2.72	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Continuing Calib Date: 01/30/2025 **Initial Calibration Date(s):** 01/30/2025 01/30/2025

Continuing Calib Time: 12:01 **Initial Calibration Time(s):** 09:39 10:27

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DBCP	5.00	5.00	4.90	5.10	0.01
EDB	1.98	1.98	1.88	2.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/30/2025 01/30/2025

Client Sample No.: CCAL01 **Date Analyzed:** 01/30/2025

Lab Sample No.: M8011.504.1 0.1 PF **Data File :** PQ069898.D **Time Analyzed:** 12:01

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
DBCP	5.971	5.870	6.070	0.100	0.100	0.0
EDB	2.617	2.516	2.716	0.100	0.100	0.0

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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/30/2025 01/30/2025

Client Sample No.: CCAL01 **Date Analyzed:** 01/30/2025

Lab Sample No.: M8011.504.1 0.1 PF **Data File :** PQ069898.D **Time Analyzed:** 12:01

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
DBCP	4.995	4.895	5.095	0.100	0.100	0.0
EDB	1.978	1.878	2.078	0.100	0.100	0.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069898.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 12:01
Operator : YP\AJ
Sample : M8011.504.1 0.1 PPB CCC
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.1 PPB CCC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 12:45:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.617	1.978	24089639	19820445	0.100	0.104
2)	SA DBCP	5.971	4.995	57605555	48589045	0.101	0.105

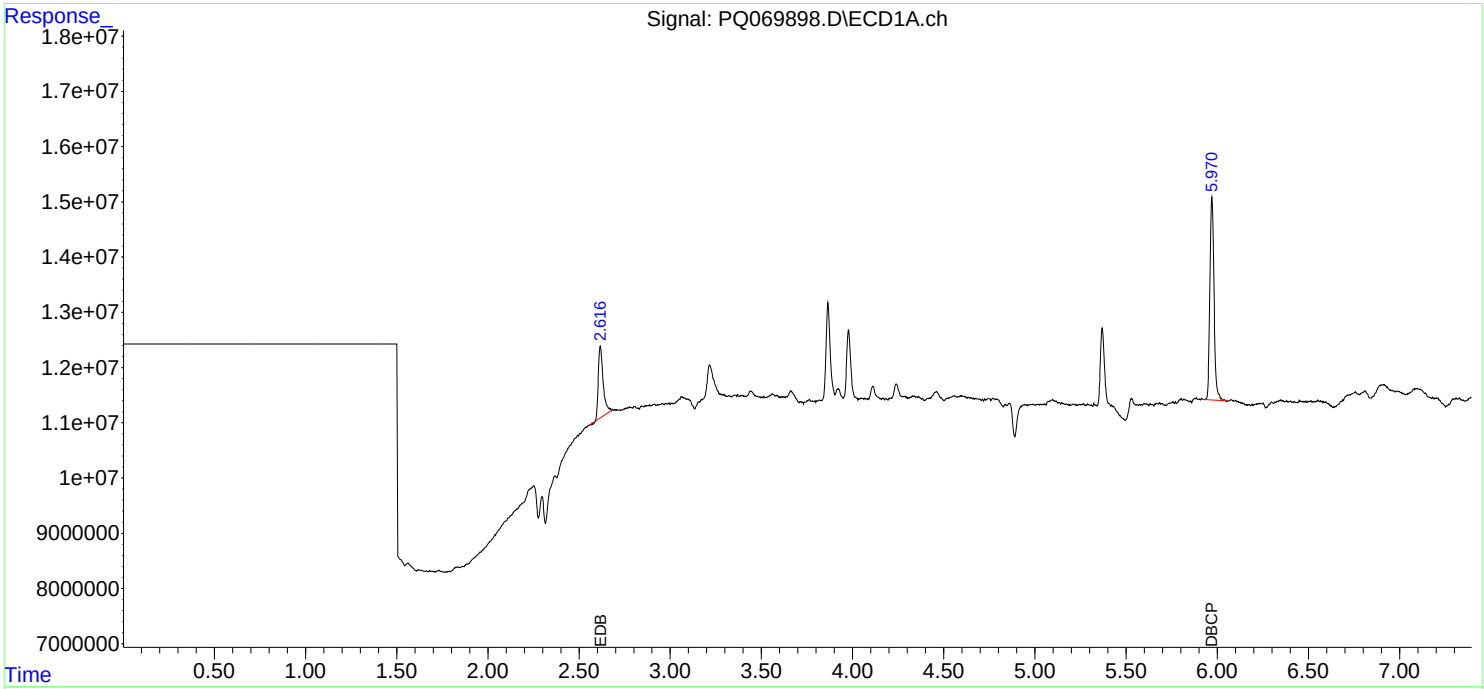
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

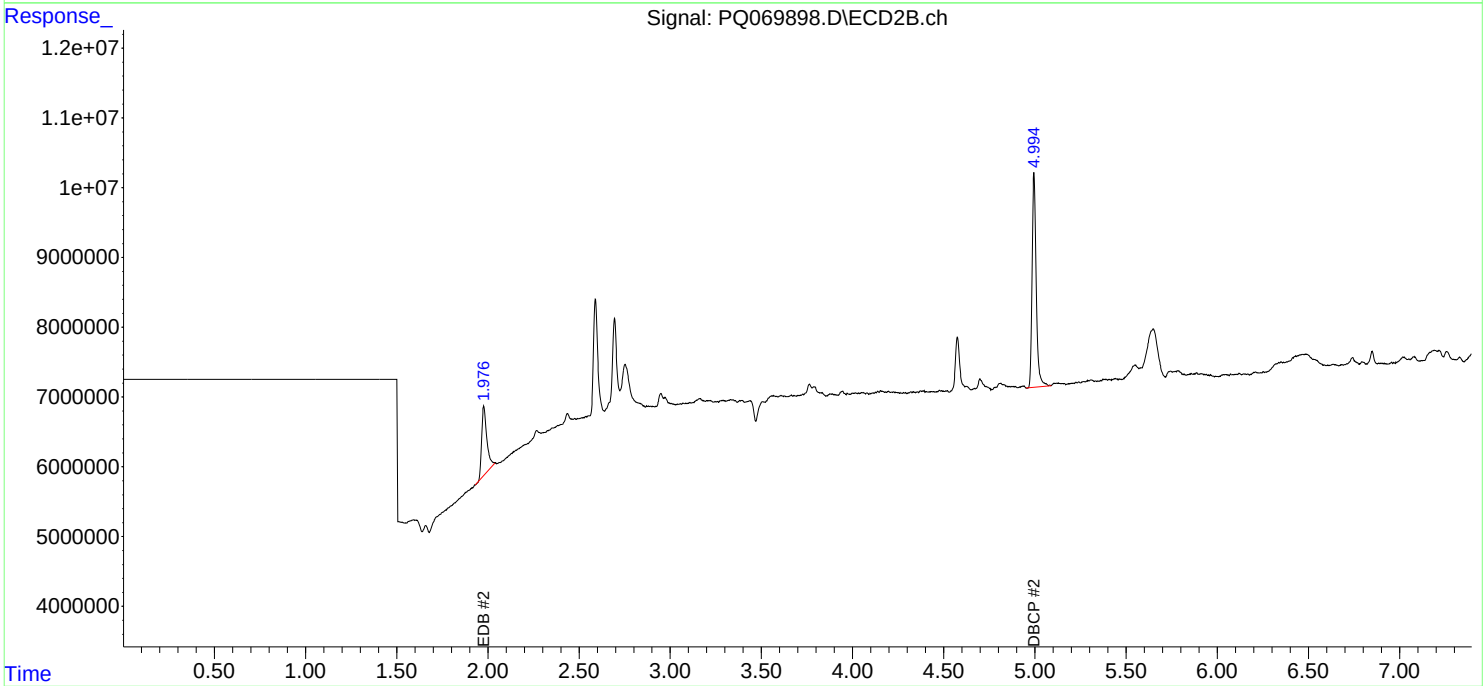
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069898.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 12:01
Operator : YP\AJ
Sample : M8011.504.1 0.1 PPB CCC
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.1 PPB CCC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 12:45:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Continuing Calib Date: 01/30/2025 **Initial Calibration Date(s):** 01/30/2025 01/30/2025

Continuing Calib Time: 13:23 **Initial Calibration Time(s):** 09:39 10:27

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DBCP	5.97	5.97	5.87	6.07	0.00
EDB	2.62	2.62	2.52	2.72	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Continuing Calib Date: 01/30/2025 **Initial Calibration Date(s):** 01/30/2025 01/30/2025

Continuing Calib Time: 13:23 **Initial Calibration Time(s):** 09:39 10:27

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DBCP	5.00	5.00	4.90	5.10	0.01
EDB	1.98	1.98	1.88	2.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/30/2025 01/30/2025

Client Sample No.: CCAL02 **Date Analyzed:** 01/30/2025

Lab Sample No.: M8011.504.1 0.1 PF **Data File :** PQ069904.D **Time Analyzed:** 13:23

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
DBCP	5.971	5.870	6.070	0.100	0.100	0.0
EDB	2.618	2.516	2.716	0.100	0.100	0.0

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CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/30/2025 01/30/2025

Client Sample No.: CCAL02 **Date Analyzed:** 01/30/2025

Lab Sample No.: M8011.504.1 0.1 PF **Data File :** PQ069904.D **Time Analyzed:** 13:23

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
DBCP	4.995	4.895	5.095	0.100	0.100	0.0
EDB	1.980	1.878	2.078	0.100	0.100	0.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069904.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 13:23
Operator : YP\AJ
Sample : M8011.504.1 0.1 PPB CCC
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.1 PPB CCC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 13:31:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.618	1.980	23314592	19612271	0.097	0.103
2)	SA DBCP	5.971	4.995	57337678	47951204	0.100	0.103

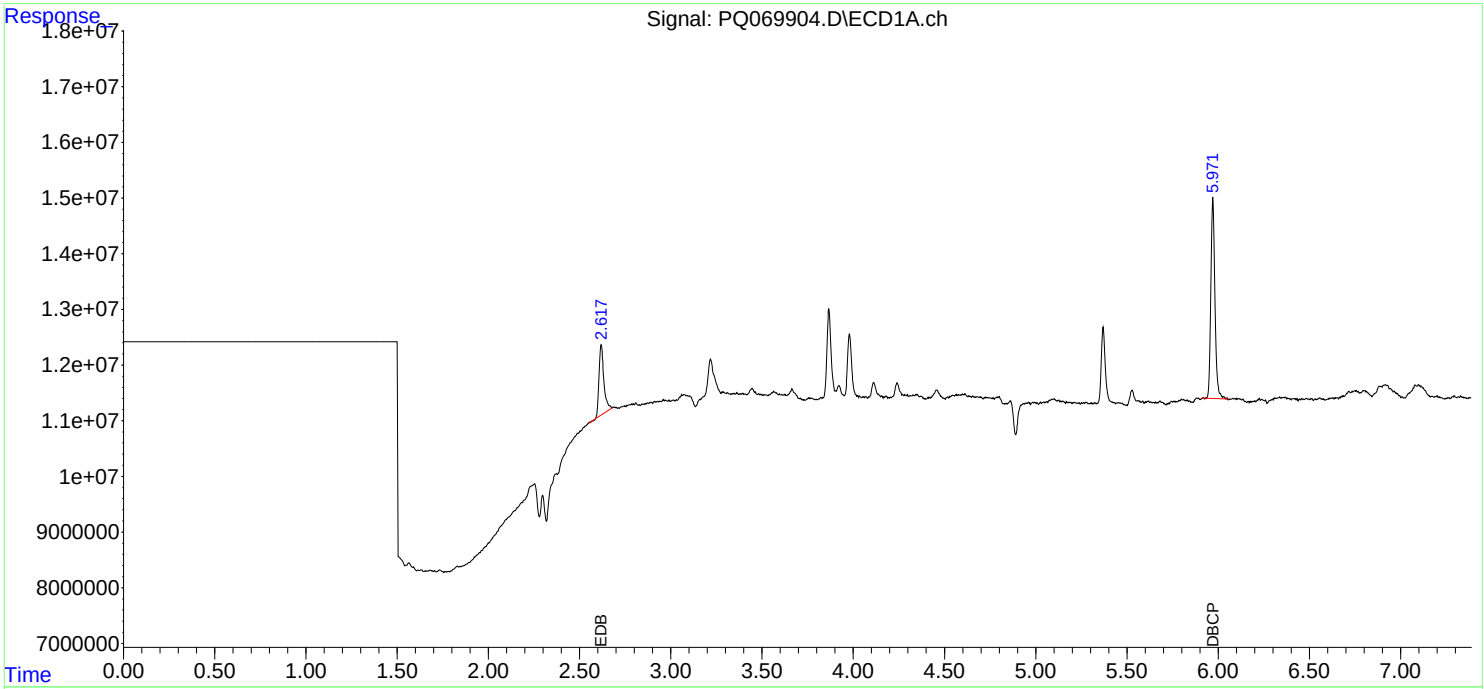
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

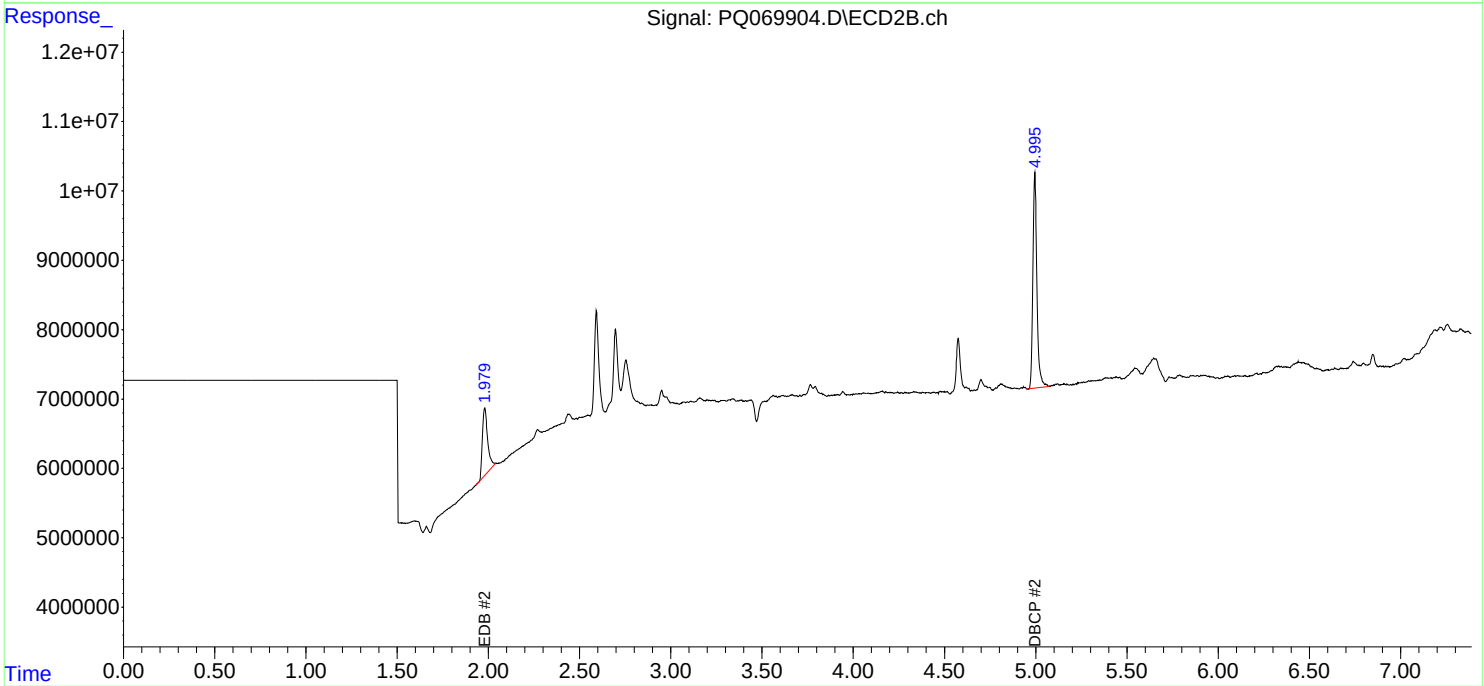
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069904.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 13:23
Operator : YP\AJ
Sample : M8011.504.1 0.1 PPB CCC
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
M8011.504.1 0.1 PPB CCC

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 13:31:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





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Fax : 908 789 8922

Analytical Sequence

Client: Chemtech Consulting Group **SDG No.:** Q1172

Project: NJ Drinking Water PT **Instrument ID:** ECD_Q

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 01/30/2025 01/30/2025

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	DCB RT #	TCX RT #
M8011.504.1 0.5 PPB ICC	M8011.504.1 0.5 PPB ICC	01/30/2025	09:39	PQ069886.D	0.00	0.00
M8011.504.1 0.25 PPB ICC	M8011.504.1 0.25 PPB IC	01/30/2025	09:51	PQ069887.D	0.00	0.00
M8011.504.1 0.1 PPB ICC	M8011.504.1 0.1 PPB ICC	01/30/2025	10:03	PQ069888.D	0.00	0.00
M8011.504.1 0.05 PPB ICC	M8011.504.1 0.05 PPB IC	01/30/2025	10:15	PQ069889.D	0.00	0.00
M8011.504.1 0.025 PPB ICC	M8011.504.1 0.025 PPB IC	01/30/2025	10:27	PQ069890.D	0.00	0.00
M8011.504.1 0.1 PPB CCC	M8011.504.1 0.1 PPB CC	01/30/2025	12:01	PQ069898.D	0.00	0.00
PB166329BL	PB166329BL	01/30/2025	12:12	PQ069899.D	0.00	0.00
PB166329BS	PB166329BS	01/30/2025	12:24	PQ069900.D	0.00	0.00
PB166329BSD	PB166329BSD	01/30/2025	12:36	PQ069901.D	0.00	0.00
PT-EDBCP-WS	Q1172-11	01/30/2025	12:48	PQ069902.D	0.00	0.00
PT-EDBCP-WSDL	Q1172-11DL	01/30/2025	13:11	PQ069903.D	0.00	0.00
M8011.504.1 0.1 PPB CCC	M8011.504.1 0.1 PPB CC	01/30/2025	13:23	PQ069904.D	0.00	0.00

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Analytical Sequence

Client: Chemtech Consulting Group **SDG No.:** Q1172

Project: NJ Drinking Water PT **Instrument ID:** ECD_Q

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 01/30/2025 01/30/2025

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	DCB RT #	TCX RT #
M8011.504.1 0.5 PPB ICC	M8011.504.1 0.5 PPB ICC	01/30/2025	09:39	PQ069886.D	0.00	0.00
M8011.504.1 0.25 PPB ICC	M8011.504.1 0.25 PPB ICC	01/30/2025	09:51	PQ069887.D	0.00	0.00
M8011.504.1 0.1 PPB ICC	M8011.504.1 0.1 PPB ICC	01/30/2025	10:03	PQ069888.D	0.00	0.00
M8011.504.1 0.05 PPB ICC	M8011.504.1 0.05 PPB ICC	01/30/2025	10:15	PQ069889.D	0.00	0.00
M8011.504.1 0.025 PPB ICC	M8011.504.1 0.025 PPB IC	01/30/2025	10:27	PQ069890.D	0.00	0.00
M8011.504.1 0.1 PPB CCC	M8011.504.1 0.1 PPB CCC	01/30/2025	12:01	PQ069898.D	0.00	0.00
PB166329BL	PB166329BL	01/30/2025	12:12	PQ069899.D	0.00	0.00
PB166329BS	PB166329BS	01/30/2025	12:24	PQ069900.D	0.00	0.00
PB166329BSD	PB166329BSD	01/30/2025	12:36	PQ069901.D	0.00	0.00
PT-EDBCP-WS	Q1172-11	01/30/2025	12:48	PQ069902.D	0.00	0.00
PT-EDBCP-WSDL	Q1172-11DL	01/30/2025	13:11	PQ069903.D	0.00	0.00
M8011.504.1 0.1 PPB CCC	M8011.504.1 0.1 PPB CCC	01/30/2025	13:23	PQ069904.D	0.00	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166329BS

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Lab Sample ID: PB166329BS **Date(s) Analyzed:** 01/30/2025 01/30/2025

Instrument ID (1): ECD_Q **Instrument ID (2):** ECD_Q

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
DBCP	1	5.97	5.92	6.02	0.23	0
	2	5.00	4.95	5.05	0.23	
EDB	1	2.62	2.57	2.67	0.23	0
	2	1.98	1.93	2.03	0.23	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166329BSD

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Lab Sample ID: PB166329BSD **Date(s) Analyzed:** 01/30/2025 01/30/2025

Instrument ID (1): ECD_Q **Instrument ID (2):** ECD_Q

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
DBCP	1	5.97	5.92	6.02	0.24	0
	2	4.99	4.94	5.04	0.24	
EDB	1	2.62	2.57	2.67	0.24	0
	2	1.98	1.93	2.03	0.24	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-EDBCP-WS

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Lab Sample ID: Q1172-11 **Date(s) Analyzed:** 01/30/2025 01/30/2025

Instrument ID (1): ECD_Q **Instrument ID (2):** ECD_Q

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
DBCP	1	5.97	5.92	6.02	1.40	7.4
	2	5.00	4.95	5.05	1.30	
EDB	1	2.62	2.57	2.67	0.85	2.4
	2	1.98	1.93	2.03	0.83	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-EDBCP-WSDL

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1172 **SAS No.:** Q1172 **SDG NO.:** Q1172

Lab Sample ID: Q1172-11DL **Date(s) Analyzed:** 01/30/2025 01/30/2025

Instrument ID (1): ECD_Q **Instrument ID (2):** ECD_Q

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
DBCP	1	5.97	5.92	6.02	1.50	0
	2	5.00	4.95	5.05	1.50	
EDB	1	2.62	2.57	2.67	0.84	9.1
	2	1.98	1.93	2.03	0.92	

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	PB166329BL	SDG No.:	Q1172
Lab Sample ID:	PB166329BL	Matrix:	WATER
Analytical Method:	8011	% Solid:	0 Decanted:
Sample Wt/Vol:	35 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	VOCGC Group 1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ069899.D	1	01/30/25 08:40	01/30/25 12:12	PB166329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
96-12-8	DBCP	0.0070	U	0.0070	0.025	ug/L
106-93-4	EDB	0.0085	U	0.0085	0.025	ug/L

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_Q\Data\PQ013025\
Data File : PQ069899.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 12:12
Operator : YP\AJ
Sample : PB166329BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
PB166329BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 12:45:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

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

Target Compounds

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

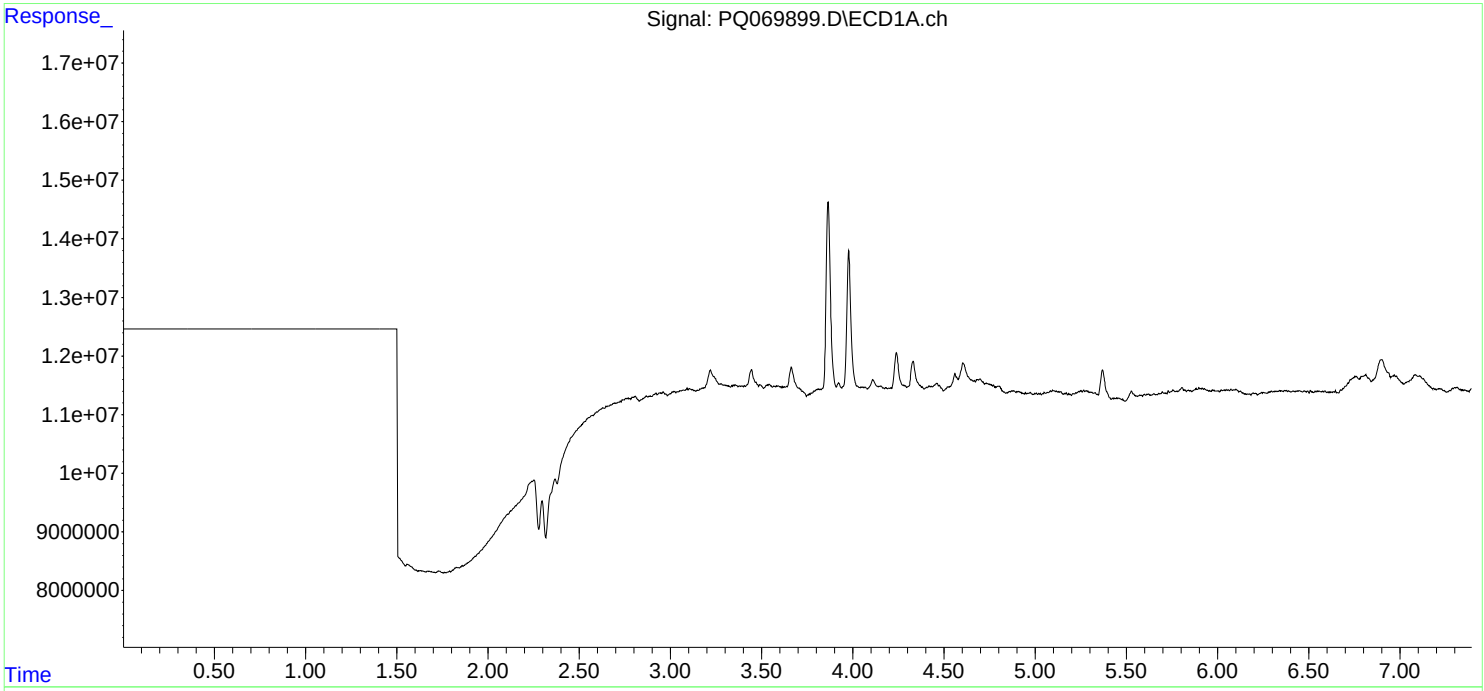
Sample Results: **PQ069899.D**

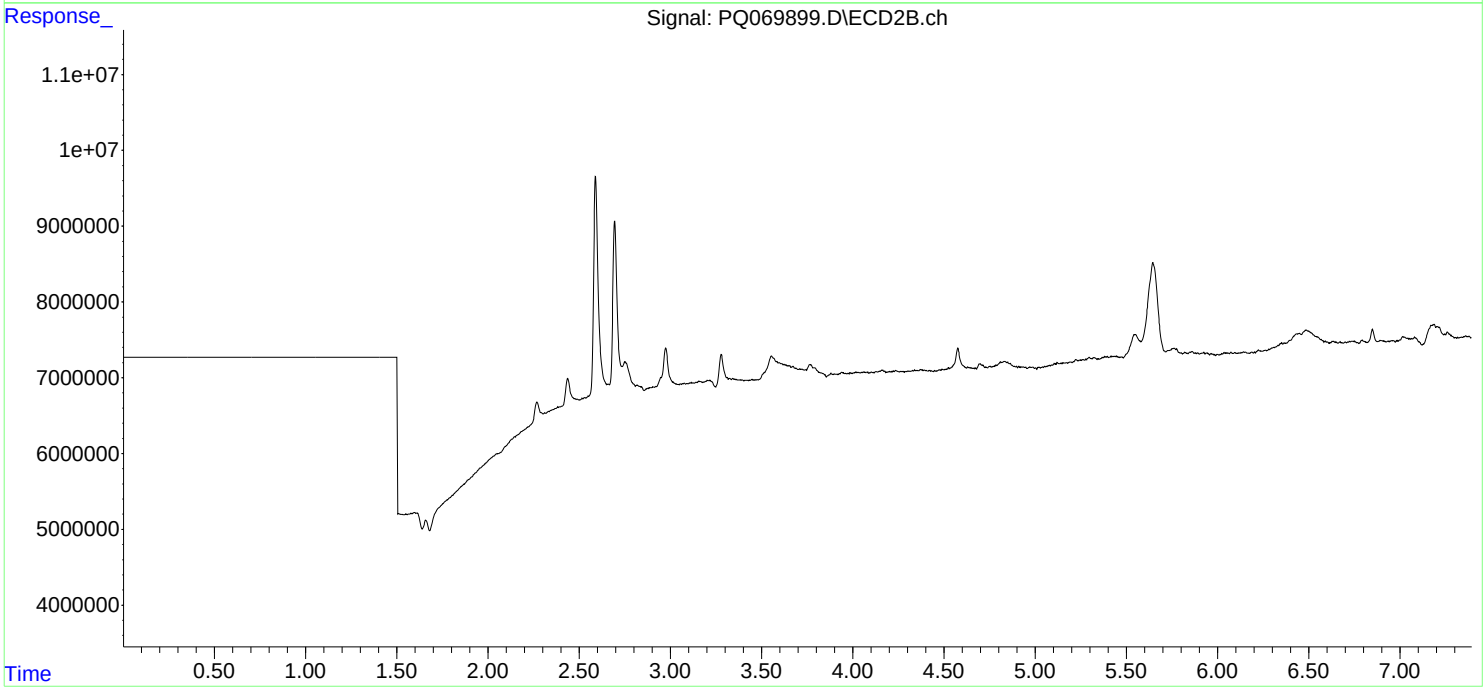
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069899.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 12:12
Operator : YP\AJ
Sample : PB166329BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
PB166329BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 12:45:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





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 Drinking Water PT	Date Received:	
Client Sample ID:	PB166329BS	SDG No.:	Q1172
Lab Sample ID:	PB166329BS	Matrix:	WATER
Analytical Method:	8011	% Solid:	0 Decanted:
Sample Wt/Vol:	35 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	VOCGC Group 1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ069900.D	1	01/30/25 08:40	01/30/25 12:24	PB166329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
96-12-8	DBCP	0.23		0.0070	0.025	ug/L
106-93-4	EDB	0.23		0.0085	0.025	ug/L

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_Q\Data\PQ013025\
Data File : PQ069900.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 12:24
Operator : YP\AJ
Sample : PB166329BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
PB166329BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 12:45:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.618	1.979	54243250	44039856	0.225	0.232
2)	SA DBCP	5.970	4.995	131.4E6	108.2E6	0.229	0.233

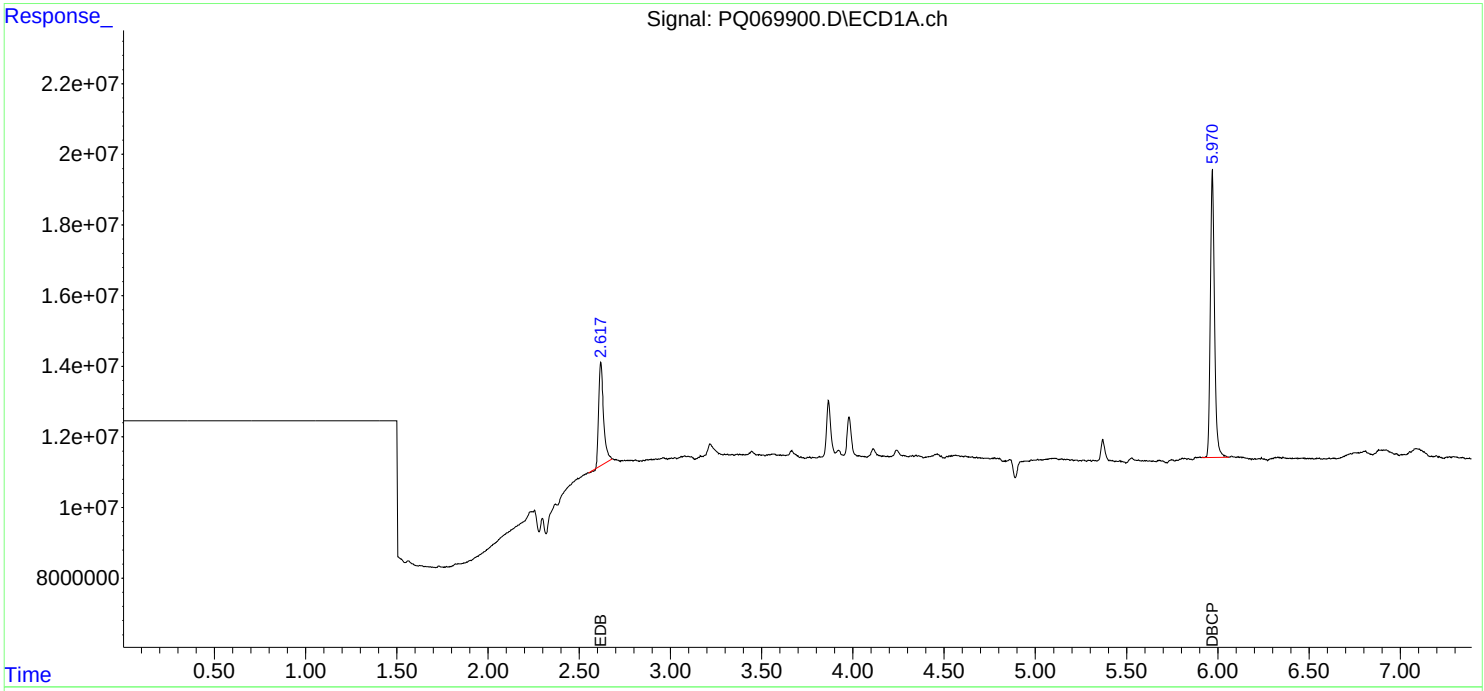
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

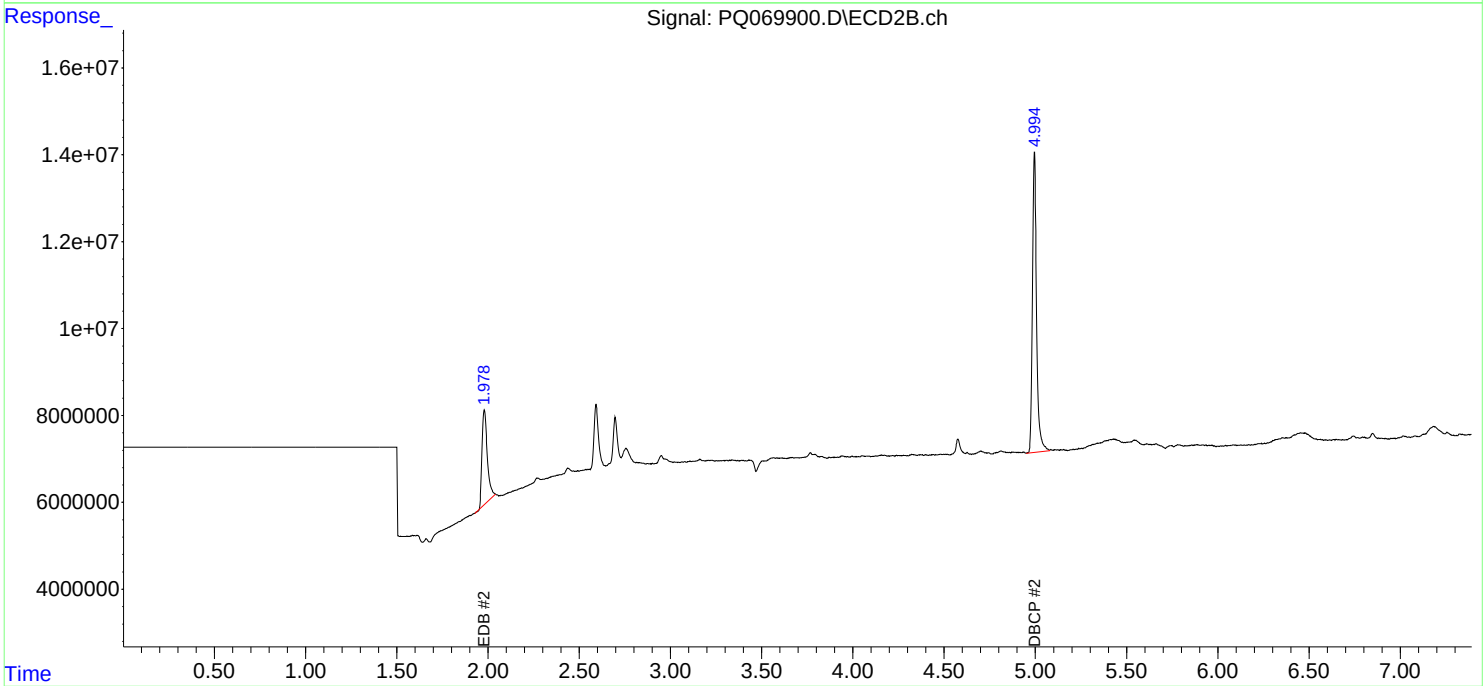
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069900.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 12:24
Operator : YP\AJ
Sample : PB166329BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
PB166329BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 12:45:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	PB166329BSD	SDG No.:	Q1172
Lab Sample ID:	PB166329BSD	Matrix:	WATER
Analytical Method:	8011	% Solid:	0 Decanted:
Sample Wt/Vol:	35 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	VOCGC Group 1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ069901.D	1	01/30/25 08:40	01/30/25 12:36	PB166329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
96-12-8	DBCP	0.24		0.0070	0.025	ug/L
106-93-4	EDB	0.24		0.0085	0.025	ug/L

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_Q\Data\PQ013025\
Data File : PQ069901.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 12:36
Operator : YP\AJ
Sample : PB166329BSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
PB166329BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 12:46:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	Target Compounds						
1)	SA EDB	2.616	1.977	56794440	45955252	0.236	0.242
2)	SA DBCP	5.970	4.994	136.0E6	110.9E6	0.237	0.239

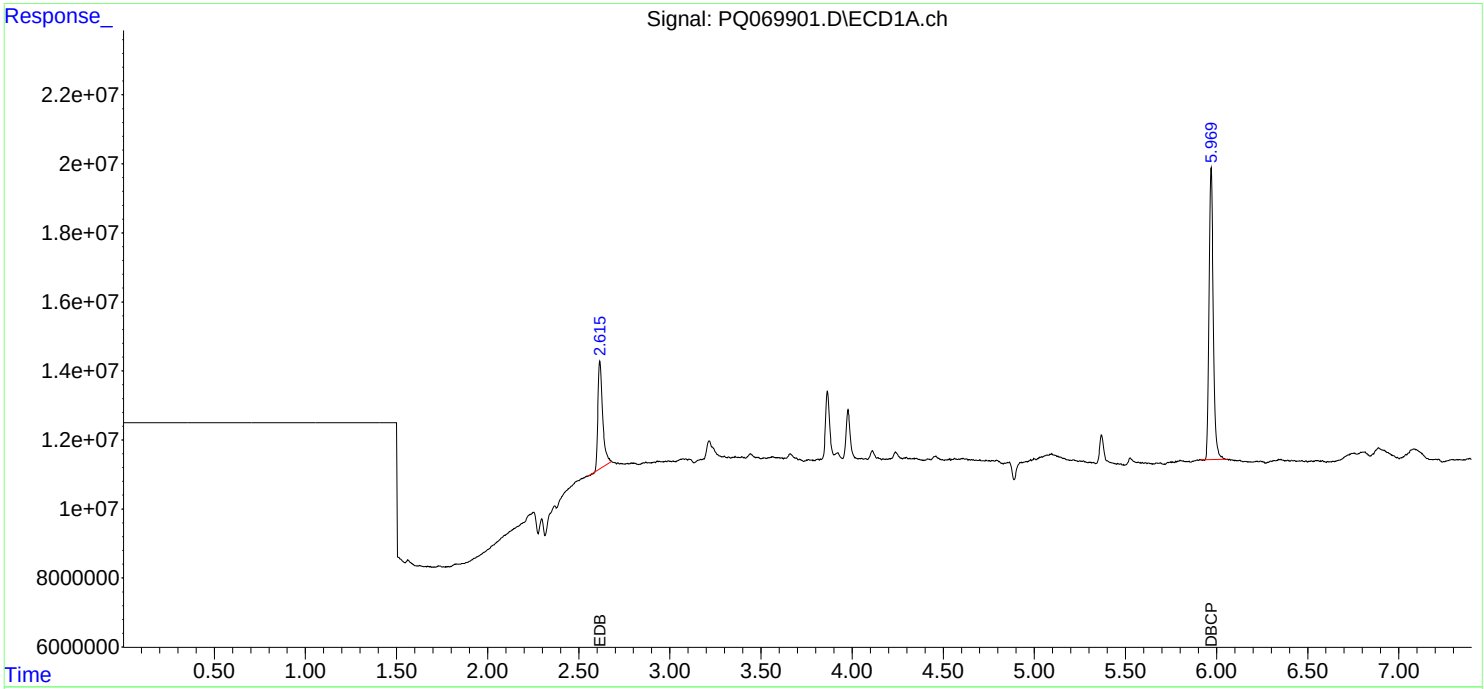
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

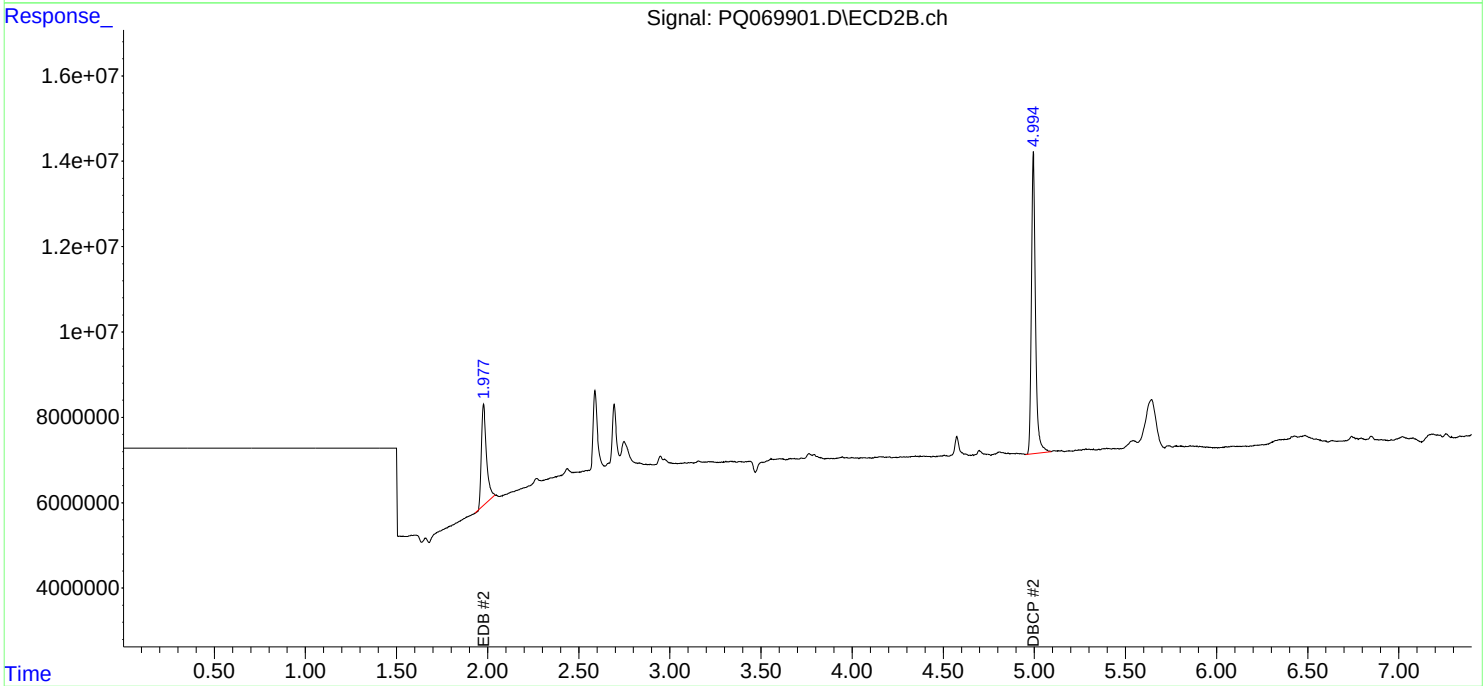
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ013025\
Data File : PQ069901.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jan 2025 12:36
Operator : YP\AJ
Sample : PB166329BSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :
PB166329BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 30 12:46:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ013025-8011-504.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jan 30 10:34:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





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Manual Integration Report

Sequence:	PQ013025	Instrument	ECD_q

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1172-11	PQ069902.D	EDB	yogesh	1/31/2025 11:36:46 AM	Ankita	1/31/2025 11:41:10	Peak Integrated by Software
Q1172-11	PQ069902.D	EDB #2	yogesh	1/31/2025 11:36:46 AM	Ankita	1/31/2025 11:41:10	Peak Integrated by Software
Q1172-11DL	PQ069903.D	EDB #2	yogesh	1/31/2025 11:36:48 AM	Ankita	1/31/2025 11:41:11	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: ECD_Q

Daily Analysis Runlog For Sequence/QCBatch ID # PQ013025

Review By	yogesh	Review On	1/31/2025 11:36:54 AM		
Supervise By	Ankita	Supervise On	1/31/2025 11:41:16 AM		
SubDirectory	PQ013025	HP Acquire Method		HP Processing Method	PQ013025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24142,PP24143,PP24144,PP24145,PP24146
CCC	PP24149
Internal Standard/PEM	
ICV/I.BLK	PP24147
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PQ069885.D	30 Jan 2025 09:28	YP\AJ	Ok
2	M8011.504.1 0.5 PPB ICC	PQ069886.D	30 Jan 2025 09:39	YP\AJ	Ok
3	M8011.504.1 0.25 PPB ICC	PQ069887.D	30 Jan 2025 09:51	YP\AJ	Ok
4	M8011.504.1 0.1 PPB ICC	PQ069888.D	30 Jan 2025 10:03	YP\AJ	Ok
5	M8011.504.1 0.05 PPB ICC	PQ069889.D	30 Jan 2025 10:15	YP\AJ	Ok
6	M8011.504.1 0.025 PPB ICC	PQ069890.D	30 Jan 2025 10:27	YP\AJ	Ok
7	M8011.504.1 0.1 PPB ICV	PQ069891.D	30 Jan 2025 10:38	YP\AJ	Ok
8	RT CHECK	PQ069892.D	30 Jan 2025 10:50	YP\AJ	Ok
9	M8011.504.1 0.1 PPB CCC	PQ069893.D	30 Jan 2025 11:02	YP\AJ	Ok
10	Low-Level LFB-MDL Check	PQ069894.D	30 Jan 2025 11:14	YP\AJ	Ok
11	PB166328BL	PQ069895.D	30 Jan 2025 11:25	YP\AJ	Ok
12	Q1168-07	PQ069896.D	30 Jan 2025 11:37	YP\AJ	Ok
13	Q1168-08	PQ069897.D	30 Jan 2025 11:49	YP\AJ	Ok
14	M8011.504.1 0.1 PPB CCC	PQ069898.D	30 Jan 2025 12:01	YP\AJ	Ok
15	PB166329BL	PQ069899.D	30 Jan 2025 12:12	YP\AJ	Ok
16	PB166329BS	PQ069900.D	30 Jan 2025 12:24	YP\AJ	Ok
17	PB166329BSD	PQ069901.D	30 Jan 2025 12:36	YP\AJ	Ok
18	Q1172-11	PQ069902.D	30 Jan 2025 12:48	YP\AJ	Dilution
19	Q1172-11DL	PQ069903.D	30 Jan 2025 13:11	YP\AJ	Ok,M
20	M8011.504.1 0.1 PPB CCC	PQ069904.D	30 Jan 2025 13:23	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_Q

Daily Analysis Runlog For Sequence/QCBatch ID # PQ013025

Review By	yogesh	Review On	1/31/2025 11:36:54 AM		
Supervise By	Ankita	Supervise On	1/31/2025 11:41:16 AM		
SubDirectory	PQ013025	HP Acquire Method		HP Processing Method	PQ013025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24142,PP24143,PP24144,PP24145,PP24146
CCC	PP24149
Internal Standard/PEM	
ICV/I.BLK	PP24147
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PQ069885.D	30 Jan 2025 09:28		YP\AJ	Ok
2	M8011.504.1 0.5 PPB IC	M8011.504.1 0.5 PPB I	PQ069886.D	30 Jan 2025 09:39		YP\AJ	Ok
3	M8011.504.1 0.25 PPB	M8011.504.1 0.25 PPB	PQ069887.D	30 Jan 2025 09:51		YP\AJ	Ok
4	M8011.504.1 0.1 PPB IC	M8011.504.1 0.1 PPB I	PQ069888.D	30 Jan 2025 10:03		YP\AJ	Ok
5	M8011.504.1 0.05 PPB	M8011.504.1 0.05 PPB	PQ069889.D	30 Jan 2025 10:15		YP\AJ	Ok
6	M8011.504.1 0.025 PPB	M8011.504.1 0.025 PPI	PQ069890.D	30 Jan 2025 10:27		YP\AJ	Ok
7	M8011.504.1 0.1 PPB IC	ICVPQ013025	PQ069891.D	30 Jan 2025 10:38		YP\AJ	Ok
8	RT CHECK	RT CHECK	PQ069892.D	30 Jan 2025 10:50		YP\AJ	Ok
9	M8011.504.1 0.1 PPB C	M8011.504.1 0.1 PPB C	PQ069893.D	30 Jan 2025 11:02		YP\AJ	Ok
10	Low-Level LFB-MDL Ch	Low-Level LFB-MDL Ch	PQ069894.D	30 Jan 2025 11:14		YP\AJ	Ok
11	PB166328BL	PB166328BL	PQ069895.D	30 Jan 2025 11:25		YP\AJ	Ok
12	Q1168-07	LOD-MDL-WATER-01-(	PQ069896.D	30 Jan 2025 11:37		YP\AJ	Ok
13	Q1168-08	LOQ-WATER-02-QT1-2	PQ069897.D	30 Jan 2025 11:49		YP\AJ	Ok
14	M8011.504.1 0.1 PPB C	M8011.504.1 0.1 PPB C	PQ069898.D	30 Jan 2025 12:01		YP\AJ	Ok
15	PB166329BL	PB166329BL	PQ069899.D	30 Jan 2025 12:12		YP\AJ	Ok
16	PB166329BS	PB166329BS	PQ069900.D	30 Jan 2025 12:24		YP\AJ	Ok
17	PB166329BSD	PB166329BSD	PQ069901.D	30 Jan 2025 12:36		YP\AJ	Ok
18	Q1172-11	PT-EDBCP-WS	PQ069902.D	30 Jan 2025 12:48		YP\AJ	Dilution

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Fax : 908 789 8922

Instrument ID: ECD_Q

Daily Analysis Runlog For Sequence/QCBatch ID # PQ013025

Review By	yogesh	Review On	1/31/2025 11:36:54 AM		
Supervise By	Ankita	Supervise On	1/31/2025 11:41:16 AM		
SubDirectory	PQ013025	HP Acquire Method		HP Processing Method	PQ013025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24142,PP24143,PP24144,PP24145,PP24146
CCC	PP24149
Internal Standard/PEM	
ICV/I.BLK	PP24147
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1172-11DL	PT-EDBCP-WSDL	PQ069903.D	30 Jan 2025 13:11		YP\AJ	Ok,M
20	M8011.504.1 0.1 PPB C	M8011.504.1 0.1 PPB C	PQ069904.D	30 Jan 2025 13:23		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166329

SOP ID: M504.1-8011-EDB&DBCP by GC-9

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: AJ

Balance ID: VOA-SC-1

pH Strip Lot#: N/A

Extraction By: AJ

Filter By: N/A

pH Meter ID: N/A

Hood ID: N/A

Extraction Start Date : 01/30/2025

Extraction Start Time : 08:40

Extraction End Date : 01/30/2025

Extraction End Time : 09:25

Concentration By: AJ

Supervisor By : mohammad

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet ☑ Micro Extraction

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike	N/A	N/A	PP24155
Blank Spike	N/A	N/A	PP24156
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
Baked NaCL	6G	M5884
Hexane	2ML	E3872
DI WATER	35 ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: N/A

Envap Temperature: N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/30/25 9:30	AJ/ TEST PCB Lab	AJ/ TEST PCB Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166329

Analytical Method: M504.1-8011-EDB&DBCP by GC-9 **Concentration Date:** 01/30/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166329BL	PB166329BL	VOCGC Group 1	35	N/A	Ankita	mohammad	2		PP24154	
PB166329BS	PB166329BS	VOCGC Group 1	35	N/A	Ankita	mohammad	2		PP24155	
PB166329BSD	PB166329BSD	VOCGC Group 1	35	N/A	Ankita	mohammad	2		PP24156	
Q1172-11	PT-EDBCP-WS	VOCGC Group 1	35	N/A	Ankita	mohammad	2			

AJ
01/30/25

* **Extracts relinquished on the same date as received.**

Extraction Page

PrepBatch ID : PB166329

Sample ID	Initial Vol. (mL)	pH	Spike Added	Verified By	Final Vol (mL)	Prep ID
M504.1-8011 ICC 0.50 PPB	35.0	NA	Ankita	Mohamamd	2	PP24142
M504.1-8011 ICC 0.25 PPB	35.0	NA	Ankita	Mohamamd	2	PP24143
M504.1-8011 ICC 0.1 PPB	35.0	NA	Ankita	Mohamamd	2	PP24144
M504.1-8011 ICC 0.05 PPB	35.0	NA	Ankita	Mohamamd	2	PP24145
M504.1-8011 ICC 0.025 PPB	35.0	NA	Ankita	Mohamamd	2	PP24146
M504.1-8011 ICV 0.1 PPB	35.0	NA	Ankita	Mohamamd	2	PP24147
RT Check	35.0	NA	Ankita	Mohamamd	2	PP24148
M504.1-8011 CCC 0.1 PPB	35.0	NA	Ankita	Mohamamd	2	PP24149
M504.1-8011 LFBMDL Check 0.02 PPB	35.0	NA	Ankita	Mohamamd	2	PP24150

AJ
01/30/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1172/504.1 **WorkList ID :** 187231 **Department :** Extraction **Date :** 01-28-2025 15:41:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1172-11	PT-EDBCP-WS	Water	VOCGC Group 1	1:1 HCl to pH < 2	CHEM02	VOA L	01/13/2025	504.1

Date/Time 01/30/25 8:35
Raw Sample Received by: AJ
Raw Sample Relinquished by: MD

Date/Time 01/30/25 12:20
Raw Sample Received by: MD
Raw Sample Relinquished by: AJ

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

Prep Standard - Chemical Standard Summary

Order ID : Q1172

Test : VOCGC Group 1

Prepbatch ID : PB166329,

Sequence ID/Qc Batch ID: PQ013025,

Standard ID :
PP24133,PP24134,PP24135,PP24136,PP24142,PP24143,PP24144,PP24145,PP24146,PP24147,PP24149,PP24155,
PP24156,

Chemical ID :
E3872,M5884,P10225,P12215,P13234,V14624,W3112,

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2263	EDB-DBCP 2 PPM Stock Solution	PP24133	01/28/2025	07/13/2025	Ankita Jodhani	None	None	Yogesh Patel 01/29/2025

FROM 0.01000ml of P10225 + 0.01000ml of P13234 + 9.98000ml of V14624 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2264	EDB-DBCP 2 PPM Stock Solution 2nd Source	PP24134	01/28/2025	07/13/2025	Ankita Jodhani	None	None	Yogesh Patel 01/29/2025

FROM 0.10000ml of P12215 + 9.90000ml of V14624 = Final Quantity: 10.000 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
2517	EDB-DBCP 100 PPB Working Solution	PP24135	01/28/2025	07/13/2025	Ankita Jodhani	None	None	Yogesh Patel 01/29/2025

FROM 9.50000ml of V14624 + 0.50000ml of PP24133 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2518	EDB-DBCP 100 PPB Working Sol. 2nd Source	PP24136	01/28/2025	07/13/2025	Ankita Jodhani	None	None	Yogesh Patel 01/29/2025

FROM 9.50000ml of V14624 + 0.50000ml of PP24134 = Final Quantity: 10.000 ml

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2269	M8011-504.1 0.5 PPB STD	PP24142	01/30/2025	03/01/2025	Ankita Jodhani	None	None	Yogesh Patel 01/31/2025

FROM 35.00000ml of W3112 + 0.17500ml of PP24135 = Final Quantity: 35.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2270	M8011-504.1 0.25 PPB STD	PP24143	01/30/2025	03/01/2025	Ankita Jodhani	None	None	Yogesh Patel 01/31/2025

FROM 35.00000ml of W3112 + 0.08750ml of PP24135 = Final Quantity: 35.000 ml

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2271	M8011-504.1 0.1 PPB STD	PP24144	01/30/2025	03/01/2025	Ankita Jodhani	None	None	Yogesh Patel 01/31/2025

FROM 35.00000ml of W3112 + 0.03500ml of PP24135 = Final Quantity: 35.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2272	M8011-504.1 0.05 PPB STD	PP24145	01/30/2025	03/01/2025	Ankita Jodhani	None	None	Yogesh Patel 01/31/2025

FROM 35.00000ml of W3112 + 0.17500ml of PP24135 = Final Quantity: 35.000 ml

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2273	M8011-504.1 0.025 PPB STD	PP24146	01/30/2025	03/01/2025	Ankita Jodhani	None	None	Yogesh Patel 01/31/2025

FROM 35.00000ml of W3112 + 0.00880ml of PP24135 = Final Quantity: 35.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2274	M8011-504.1 0.1 PPB ICV STD	PP24147	01/30/2025	03/01/2025	Ankita Jodhani	None	None	Yogesh Patel 01/31/2025

FROM 35.00000ml of W3112 + 0.03500ml of PP24136 = Final Quantity: 35.000 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
2519	M8011-504.1 0.1 PPB CCC	PP24149	01/30/2025	01/31/2025	Ankita Jodhani	None	None	Yogesh Patel 01/31/2025

FROM 35.00000ml of W3112 + 0.03500ml of PP24135 = Final Quantity: 35.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2275	M8011-504.1 0.25 PPB LCS STD	PP24155	01/30/2025	01/31/2025	Ankita Jodhani	None	None	Yogesh Patel 01/31/2025

FROM 35.00000ml of W3112 + 0.08750ml of PP24136 = Final Quantity: 35.000 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
2275	M8011-504.1 0.25 PPB LCS STD	PP24156	01/30/2025	01/31/2025	Ankita Jodhani	None	None	Yogesh Patel 01/31/2025

FROM 35.00000ml of W3112 + 0.08750ml of PP24136 = Final Quantity: 35.000 ml

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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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3872

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30270 / 1,2-Dibromo-3-Chloropropane Standard, 2,000 ug/ml	A0164665	07/28/2025	01/28/2025 / Ankita	01/19/2021 / Abdul	P10225

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30239 / 504.1 Calibration Mix (3 components)	A0170154	07/28/2025	01/28/2025 / Ankita	11/28/2022 / Ankita	P12215

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30272 / 1,2-Dibromoethane Standard, 2000 ug/ml	A0183330	07/28/2025	01/28/2025 / Ankita	02/02/2024 / Ankita	P13234

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

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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	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

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

Ken Koehnlein
Sr. Manager, Quality Assurance

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_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 1/29/25

E3872

Jamie Croak
Director Quality Operations, Bioscience Production

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

MF884
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris 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 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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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. : 30270 **Lot No.:** A0164665

Description : 1,2-Dibromo-3-chloropropane Standard

1,2-Dibromo-3-Chloropropane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2-Dibromo-3-chloropropane	2,009.8 µg/mL	+/- 18.6904 µg/mL	Gravimetric
	CAS # 96-12-8 (Lot FBL01)		+/- 113.6299 µg/mL	Unstressed
	Purity 97%		+/- 116.2454 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

P10222
↓
P10225

AR
01/19/2020

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

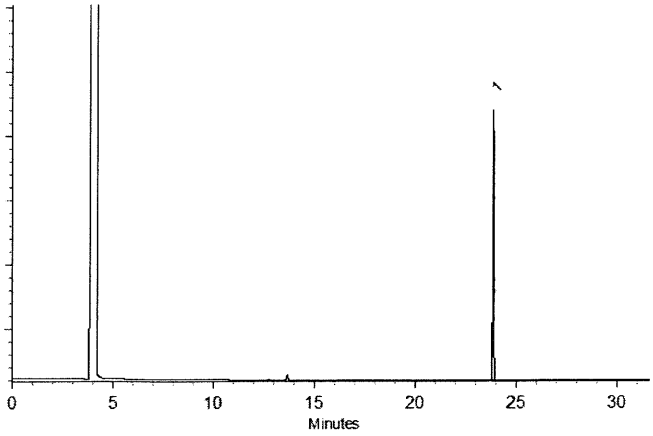
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°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.

Jeremy Johnson - Mfg. Supervisor

Date Mixed: 22-Sep-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 24-Sep-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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. : 30239 **Lot No.:** A0170154

Description : 504.1 Calibration Mix

504.1 Calibration Std 200µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

P12211
↓
P12215

AJ
11/28/22

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dibromoethane (EDB)		200.5 µg/mL	+/- 1.4217	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)		+/- 11.2713	µg/mL	Unstressed
	Purity 99%			+/- 11.5336	µg/mL	Stressed
2	1,2,3-Trichloropropane		200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)		+/- 11.2431	µg/mL	Unstressed
	Purity 99%			+/- 11.5049	µg/mL	Stressed
3	1,2-Dibromo-3-chloropropane		199.8 µg/mL	+/- 1.4169	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)		+/- 11.2330	µg/mL	Unstressed
	Purity 97%			+/- 11.4945	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

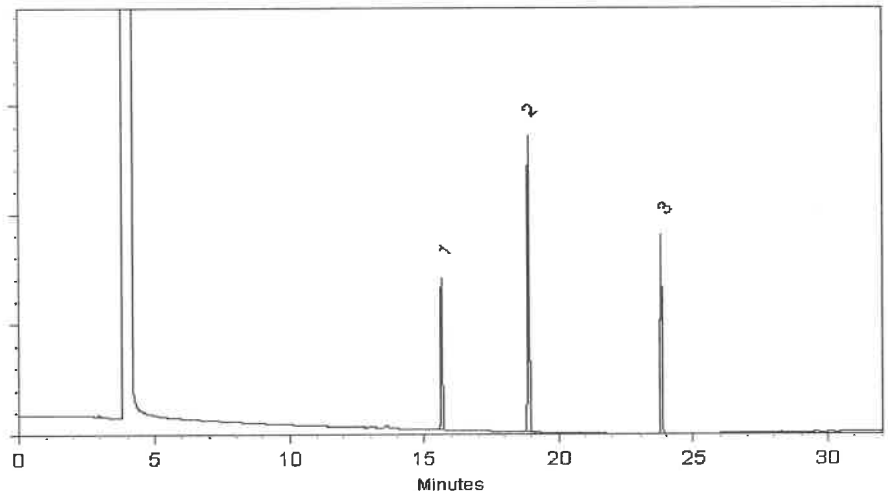
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°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.

Erik Strommer - Operations Tech I

Date Mixed: 15-Mar-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 16-Mar-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30272 **Lot No.:** A0183330

Description : 1,2-Dibromoethane Standard

1,2-Dibromoethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 (Lot BCBZ7221) **Purity** 99%	2,016.0 µg/mL	+/- 18.7477 µg/mL +/- 113.9782 µg/mL +/- 116.6017 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

P13233
↓
P13237

AJ
02/02/24

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

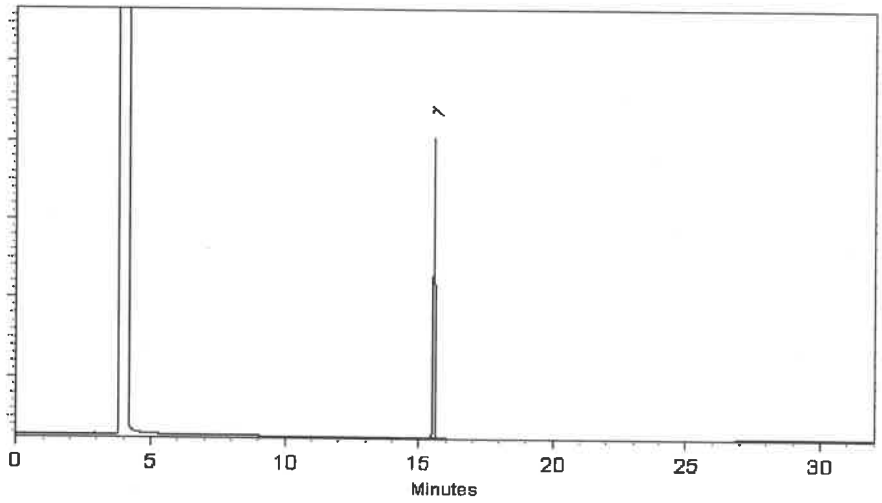
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°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.

Jess Hoy - Operations Tech I

Date Mixed: 25-Mar-2022 **Balance:** 1127510105

Amanda Miller - Operations Tech-ARM QC

Date Passed: 30-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

SHIPPING DOCUMENTS

phenova® | A Phenomenex® Company
Certified Reference Materials

Packing List

Date	Order #
01/13/2025	333291

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

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: MA
01/15/2025 10:00

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-974	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-WS	WS Trace Metals Set : (TM and HG)		
1	1	0	PT-TM-WS	WS Trace Metals 1	WS0125	9099-04B
1	1	0	PT-HG-WS	WS Trace Metals Mercury	WS0125	9099-05
1	1	0	PT-MIN-WS	WS Minerals Only	WS0125	9099-51
1	1	0	PT-TURB-WS	WS Turbidity	WS0125	9099-13
1	1	0	PT-SIO2-WS	WS Silica	WS0125	9099-17
1	1	0	PT-RVOA-WS	WS Regulated Volatiles	WS0125	9099-21
1	1	0	PT-UNRVOA-WS	WS Unregulated Volatiles	WS0125	9099-22
1	1	0	PT-THM-WS	WS Trihalomethanes	WS0125	9099-23
1	1	0	PT-EDBCP-WS	WS EDB/DBCP/TCP	WS0125	9099-27
1	1	0	PT-ADD-WS	WS Gasoline Additives	WS0125	9099-36

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488